

2020-02-25

Cell cycle-associated expression patterns predict gene function in mycobacteria

Aditya Bandekar
University of Massachusetts Medical School

Et al.

Let us know how access to this document benefits you.

Follow this and additional works at: https://escholarship.umassmed.edu/faculty_pubs



Part of the Bacteria Commons, Biochemical Phenomena, Metabolism, and Nutrition Commons, Cell Biology Commons, Cells Commons, Genetic Phenomena Commons, Microbiology Commons, and the Nucleic Acids, Nucleotides, and Nucleosides Commons

Repository Citation

Bandekar A, Subedi S, loerger T, Sasseti CM. (2020). Cell cycle-associated expression patterns predict gene function in mycobacteria. University of Massachusetts Medical School Faculty Publications. <https://doi.org/10.1101/2020.02.10.942268>. Retrieved from https://escholarship.umassmed.edu/faculty_pubs/1671

Creative Commons License



This work is licensed under a [Creative Commons Attribution-NonCommercial-No Derivative Works 4.0 License](https://creativecommons.org/licenses/by-nc-nd/4.0/). This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in University of Massachusetts Medical School Faculty Publications by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.

1 Cell cycle-associated expression patterns predict gene function in mycobacteria

2

3 Running title: Transcriptional compartmentalization of the *Mtb* cell cycle

4

5 Aditya C. Bandekar¹, Sishir Subedi², Thomas R. Ioerger², Christopher M. Sassetti^{1*}

6

7 ¹Department of Microbiology and Physiological Systems, University of Massachusetts

8 Medical School, Worcester, MA, 01605, USA

9 ²Department of Computer Science and Engineering, Texas A&M University, College Station,

10 TX, 77843, USA

11 *Correspondence: christopher.sassetti@umassmed.edu

12

13 Summary

14 While the major events in prokaryotic cell cycle progression are likely to be coordinated
15 with transcriptional and metabolic changes, these processes remain poorly characterized.

16 Unlike many rapidly-growing bacteria, DNA replication and cell division are temporally-

17 resolved in mycobacteria, making these slow-growing organisms a potentially useful

18 system to investigate the prokaryotic cell cycle. To determine if cell-cycle dependent gene

19 regulation occurs in mycobacteria, we characterized the temporal changes in the

20 transcriptome of synchronously replicating populations of *Mycobacterium tuberculosis*

21 (*Mtb*). By enriching for genes that display a sinusoidal expression pattern, we discover 485

22 genes that oscillate with a period consistent with the cell cycle. During cytokinesis, the

23 timing of gene induction could be used to predict the timing of gene function, as mRNA

24 abundance was found to correlate with the order in which proteins were recruited to the
25 developing septum. Similarly, the expression pattern of primary metabolic genes could be
26 used to predict the relative importance of these pathways for different cell cycle processes.
27 Pyrimidine synthetic genes peaked during DNA replication and their depletion caused a
28 filamentation phenotype that phenocopied defects in this process. In contrast, the IMP
29 dehydrogenase *guaB2* dedicated to guanosine synthesis displayed the opposite expression
30 pattern and its depletion perturbed septation. Together, these data imply obligate
31 coordination between primary metabolism and cell division, and identify periodically
32 regulated genes that can be related to specific cell biological functions.

33

34 **Keywords**

35 *Mycobacterium tuberculosis*; prokaryotic cell cycle; cell cycle associated transcription; just-
36 in-time transcription; divisome assembly and cytokinesis; nucleotide metabolism;
37 cytokinesis

38

39 **Introduction**

40 Much of prokaryotic cell biology has been elucidated under rapid-growth conditions in
41 which chromosomal replication takes longer than the doubling time of the cell [1], [2].
42 Under these conditions, the production of complete chromosomes for daughter cells is
43 ensured via the simultaneous initiation of multiple rounds of DNA replication, and it is not
44 possible for cells to temporally segregate DNA replication from cytokinesis as is seen in the
45 eukaryotic cell cycle. However, this paradigm may not apply to many, if not most, of the
46 bacteria in the environment. For example, *Caulobacter crescentus* exploits a specialized

47 developmental program that produces distinct sessile and motile cells, which is associated
48 with a strict cell cycle that segregates DNA replication from cytokinesis. More generally,
49 most of the bacterial biomass in nutrient poor natural environments is likely to persist in
50 slow-growing states [3]. When these conditions are modeled in nutrient-restricted
51 *Escherichia coli*, major cellular events become restricted into distinct cell cycle periods
52 designated, “B”, “C”, and “D”; in which DNA replication is restricted to the C period. The B
53 and D periods occupy the time before or after C, respectively, and are divided by
54 cytokinesis[4] [5]. Similarly, mycobacteria are slow-growing organisms, with doubling
55 times that range from 3 hours to several days, which appear to constitutively employ this
56 type of segregated cell cycle. While an ordered cell cycle may be more common in
57 prokaryotes than generally appreciated, it has only been investigated in a limited number
58 of systems.

59

60 The prokaryotic cell cycle has been most thoroughly studied in the aquatic bacterium, *C.*
61 *crescentus*, largely because it is possible to produce bacterial cultures in which cells are
62 replicating synchronously with respect to the cell cycle. As a result, the only genome-wide
63 transcriptional profiles of synchronously-replicating bacteria have been produced in this
64 species. These studies identified periodic fluctuations in mRNA abundance that correlated
65 with the cell cycle [6], [7] and led to the elucidation of a regulatory cascade that controls
66 cell cycle progression and cellular differentiation that appears to be conserved in other
67 alphaproteobacteria [8]. In addition to these regulators of cell cycle progression, 19% of
68 the genome was found to be periodically expressed [6]. These genes included those
69 involved in primary metabolic processes that are not directly associated with cell cycle

70 progression, suggesting that major cellular events, such as DNA replication and cytokinesis,
71 may be coordinated with other aspects of cellular physiology. These apparent links
72 between metabolism and cell cycle are consistent with a number of studies in model
73 organisms, where metabolites such as NAD(P)H [9] and ATP [10] oscillate according to
74 the cell cycle in *E. coli*; and UDP-glucose levels coordinate cell division timing with nutrient
75 availability in both *B. subtilis* [11] and *E. coli* [12]. While these data indicate that cell cycle
76 progression is likely coupled with some aspects of primary metabolism, it remains unclear
77 how these processes interact and whether insights from transcriptional profiling in *C.*
78 *crescentus* are generalizable to more diverse bacteria.

79
80 We sought to extend these paradigms to mycobacteria, a genus that includes relatively
81 rapid growing environmental organisms, such as *M. smegmatis*, and slower growing
82 pathogenic species such as *M. tuberculosis* (Mtb) and *M. bovis*. The cell cycle has been
83 extensively characterized in both fast- and slow-growing mycobacteria using single-cell
84 analyses of strains engineered to express fluorescent markers of DNA replication and
85 cytokinesis. These studies show that DNA replication occurs only once per cycle in the
86 majority of cells, and re-initiation of replication before division occurs only rarely [13]
87 [14][15][16][17]. While the relative durations of the cell cycle phases can be influenced by
88 the environment and stochastic factors such as birth length [16], the average duration of
89 the B, C, and D periods in Mtb are generally in the range of 6-8 hours, 9-12 hours, and 6-9
90 hours, respectively [18].

91

92 These observations from time-lapse microscopy are consistent with metabolic labeling
93 studies in synchronously-replicating cultures of *Mtb*, which can be generated using a
94 mutant strain that harbors a cold-sensitive (*cos*) allele of the DNA replication initiator
95 DnaA [19]. This *Mtbcos* strain is unable to initiate a new round of DNA replication at 30°C.
96 Upon release into the permissive temperature (37°C), cultures synchronously incorporate
97 5,6-³H-uracil into alkali stable DNA for 11 hours, consistent with the C period length
98 observed in single cells. The ability to produce synchronously replicating cultures that
99 recapitulate the behavior of single cells makes mycobacteria an attractive system to
100 investigate cell cycle-associated transcriptional changes.

101

102 Using the *Mtbcos* strain, we determined the transcriptional profile of synchronously
103 replicating cultures across the cell cycle, and report that 485 genes meet strict criteria for
104 periodic gene expression. Only a small fraction of the cell cycle-regulated gene sets of *Mtb*
105 and *C. crescentus* overlap, suggesting that the links between cell cycle and metabolism are
106 species-specific. We demonstrate that mRNA expression patterns in *Mtb* reflect the time at
107 which the encoded proteins are incorporated into the developing septum, suggesting that
108 functional information can be inferred from the kinetics of gene expression. Using this
109 framework, we discover an unanticipated functional specialization of distinct nucleotide
110 anabolic pathways. These observations show that DNA replication and cytokinesis are
111 coordinated with different primary metabolic pathways, expanding the processes that are
112 associated with these essential cellular events.

113

114 **Results**

115 **DNA replication and cytokinesis are segregated in synchronously growing**
116 **populations of *Mtb***

117 We generated synchronously replicating cultures of *Mtb* using the temperature-sensitive
118 *Mtbcos* strain [19]. Chromosomal replication was inhibited by incubating this strain at
119 30°C for 36 hours. Upon shift to the permissive temperature (37°C), the optical density
120 (Absorbance₆₀₀) of both the *Mtbcos* mutant and a wild type control culture increased
121 throughout a 54 hour time course, demonstrating that nutrients did not become limiting.
122 While the control culture grew at a constant rate over this period, the *dnaAcos* strain
123 showed a reproducible multiphasic growth pattern, an initial indication that cellular
124 metabolism may be linked to cell cycle events (**Fig1A**).

125
126 In order to estimate the efficiency of the synchronization and to delineate cell cycle periods,
127 we collected cells every three hours and monitored chromosomal replication and
128 cytokinesis. The phosphothreonine-binding protein, FhaA, marks sites of division [20], and
129 we used a fluorescent allele of this protein to calculate a “septation index” that
130 corresponded to the fraction of cells with FhaA localization at midcell. While the septation
131 index of a control culture of asynchronous cells (*MtbRv*) was constant throughout the time
132 course, this metric varied in a periodic manner in the *Mtbcos* strain. The majority of cells
133 arrested at the non-permissive temperature had an FhaA focus at midcell, which is likely an
134 artifact of the DnaA inactivation. The septation index of *Mtbcos* cells quickly decreased
135 upon shift to the permissive temperature, falling below the index of unsynchronized
136 cultures by 12 hours. Septation reached a peak in the synchronized cultures between 27
137 and 33 hours after release, marking the cytokinesis phase of the cell cycle (**Fig1B**).

138

139 To monitor chromosomal replication, we devised a PCR assay to quantify the relative
140 abundance of DNA at the origin (ori) and terminus (ter) of replication. Upon initiation of
141 replication, the cell will have an ori:ter ratio of 2:1, and this ratio should be maintained
142 until the terminus is duplicated. As we observed for septation index, the ori:ter ratio
143 remained constant in unsynchronized cultures. In contrast, the ori:ter ratio peaked twice
144 in the synchronized cultures (**Fig 1C**). The first peak lasted for a duration of approximately
145 12 hours (between 15h-27h post release) and second one lasted between 48-hrs post
146 release and the end of the study. Based on these data, we estimate that our time course
147 captured approximately 1.5 cell cycles. Both the septation index and ori/ter ratio varied by
148 approximately 50% of the range expected of fully synchronized cells, indicating that the
149 synchrony of our cultures was incomplete. Regardless, these observations indicated that
150 DNA replication is temporally segregated from cytokinesis, and the cultures were
151 sufficiently synchronized to perform transcriptional profiling.

152

153

154 **Periodic gene expression correlates with cell cycle progression**

155 In order to investigate whether gene expression changes are associated with major cellular
156 events like DNA replication and cytokinesis, we profiled mRNA abundance in synchronized
157 cultures every 3 hours across a 54 hour time course. After normalization and scaling, we
158 first assessed correlation patterns in the dataset. The initial time point after temperature
159 shift to 37°C (0hr) was uncorrelated with the rest of the datasets, presumably due to an
160 adjustment to the temperature shift and was omitted from subsequent analyses. For the

161 remaining data, we found the highest degree of correlation between adjacent time points,
162 as expected for a time-resolved dataset (**Fig 2A**). While this was generally true for both the
163 synchronized *Mtbcos* and unsynchronized *MtbRv* strains, the correlation matrix from the
164 *Mtbcos* cultures displayed a distinct three-block structure suggesting the presence of
165 transcriptionally distinct phases. This structure is even more apparent upon hierarchical
166 clustering, which revealed a pattern of gene expression consistent with an ordered
167 progression of events throughout the time course (**FigS1A**).

168
169 To take advantage of both replicate measurements and the relatedness of adjacent time
170 points, we used a Gaussian Process (GP) smoothing approach to estimate relative
171 expression levels of each gene across the time course (**Fig S1B**). The expression of many
172 genes with known cell-cycle related functions were found to peak during the appropriate
173 period. For example, genes that are important for cell division, such as the regulator, *mtrA*
174 [21] or the septal components, *sepF* [22] and *sepIVA* [23], peak in expression once during
175 cytokinesis. Similarly, genes important for DNA replication, such as those encoding DNA
176 primase (*dnaG*) and the replicative polymerase (*polA*) display two expression peaks during
177 this time course, corresponding to DNA replication (**Fig2B**). In addition, we found that the
178 expression pattern of several primary metabolic pathways mirrored these cell-cycle related
179 genes, and suggested alterations in metabolic flux. For example, genes necessary for
180 arginine biosynthesis were co-regulated and had opposing expression patterns to genes
181 involved in arginine catabolism (**Fig2B**).

182

183 We sought to more formally define genes with an expression pattern consistent with cell

184 cycle progression. First, we removed genes with correlated expression patterns in
185 synchronized and unsynchronized cultures to minimize the effect of changes in culture
186 conditions during the time course. Next, we fit the raw data from both replicates for each
187 gene to a sinusoidal function with the expected period of the *Mtb* cell cycle, optimizing the
188 parameters for trend, amplitude, period and phase. Genes with a period outside the range
189 of reasonable expectations based on the *Mtb* cell cycle were filtered out, along with genes
190 with low overall expression or high variance between replicates. A goodness-of-fit criterion
191 based on curve fitting residuals was applied, which maximized the difference in genes
192 discovered in synchronized versus unsynchronized cultures. These criteria were
193 determined to produce a false discovery rate of 0.35% using a permuted dataset, and a 2.6-
194 fold enrichment in genes discovered in the synchronized data set, compared to the
195 unsynchronized set. 485 genes were categorized as periodically expressed (**Fig 2C**;
196 **Supplementary Table 2**), and all major functional categories were represented in this
197 gene set (**Fig2D**).

198
199 Clustering this set of periodically-regulated genes further highlighted the association
200 between gene function and cell cycle stage. Genes were distributed into 8 clusters using
201 hierarchical clustering of the *Mtbcos* expression profiles (**FigS2**), producing groups of
202 coordinately regulated genes with peak expression values ranging across the time course.
203 Three of these clusters reflected expression profiles that peak during DNA replication
204 (**Fig2E**). In these clusters, we find 9 genes with defined roles in DNA replication (*dnaG*,
205 *polA*, *heliY*, *ercc3*) and nucleotide biogenesis (*carA*, *carB*, *pyrB*, *pyrC*, *purL*), further indicating
206 that expression patterns were consistent with gene function.

207

208 The periodically regulated gene set (485 genes) in *Mtb* represents 12% of the genome,
209 whereas 19% of the *C crescentus* genome was previously found to be cell cycle associated
210 [6][7]. In order to investigate whether similar cellular functions are periodically regulated
211 in these phylogenetically diverse organisms, we compared the expression patterns of
212 orthologous genes. Out of the 880 mutual orthologs identified as being reciprocal best
213 BLAST matches, 229 genes were defined as cell cycle regulated in *C. crescentus* by virtue of
214 being differentially expressed over time in synchronized cultures [7] and we found 142 to
215 be periodically expressed in *Mtb* with an overlap of 39 genes (**Fig2F, Supplementary**
216 **Table 3**). This overlap contains a number of genes with known cell cycle associated
217 functions, such as the DNA replication initiator, *dnaA*, the DNA primase *dnaG* and
218 nucleotide biogenesis (*nrdZ*, *purl*, *pyrB*). However, the modest degree of overlap also
219 suggests that independent sets of genes are periodically expressed in these two
220 phylogenetically distinct organisms.

221

222 **mRNA abundance predicts the order of assembly of mycobacterial divisome** 223 **components and regulators**

224 The order in which large multicomponent structures, such as the flagellum, are assembled
225 in bacteria can be predicted based on the transcriptional regulation of the corresponding
226 genes[24]. Based on this “just in time” transcription model [25], we hypothesized that the
227 assembly of the large complex of proteins necessary for cell division, aka the “divisome”,
228 may follow the same principles and provide a model to test whether mRNA abundance
229 could be used to predict the timing of gene function in our system. To test this model, we

230 assessed the temporal coincidence between mRNA abundance and protein localization at
231 the developing and maturing septum.

232

233 To broadly identify genes that are induced during cytokinesis (27-33h), we identified genes
234 that only peak once in the time course (**Supplementary Table 1**) and clustered genes
235 based on similar expression patterns (**Fig3A**). Within the clusters that peak in expression
236 at the appropriate times, we found a number of genes known to be involved in cytokinesis
237 (**Fig3A**). The first to be induced was *ftsZ*, the tubulin-like nucleator of the septum, and the
238 septally-localized Ser/Thr kinase, *pknD*. This was followed by the expression of genes
239 encoding several divisome-associated proteins, FtsW, SepIVA, and LamA. After these, we
240 found the gene encoding the new pole landmark protein, DivIVA, was induced. To
241 determine if the timing of expression predicted the order of assembly, we chose three
242 genes, *pknD*, *ftsW* and *divIVA* which peaked in expression early, in the middle, and late
243 during the cytokinesis window, respectively. Pairs of these proteins were fused with
244 fluorescent tags and their cellular location was determined by time lapse microscopy in *M.*
245 *smegmatis*, a related mycobacterial species that expresses orthologs of these proteins and
246 is an experimentally tractable model of mycobacterial division [26]. Dual-color
247 fluorescence imaging revealed that PknD, FtsW, and DivIVA appear at the developing
248 septum in the order predicted by mRNA abundance (**Fig 3B-D**). This order was not dictated
249 by the maturation times of the two different fluorophores. Although not directly addressed
250 in our experiments, it is likely that order of localization at the septum is independent of
251 transcriptional regulation because PknD, and DivIVA fusion proteins were expressed from
252 constitutive promoters. Instead, the transcriptional order correlates with assembly, which

253 appears to be dictated at the posttranscriptional level.

254

255 **Guanosine synthesis influences cytokinesis in mycobacteria**

256 Having demonstrated that gene expression can predict the timing of gene function, at least
257 in the case of the developing septum, we investigated whether obligate coordination exists
258 between cellular events, such as DNA replication and cytokinesis, and upstream pathways
259 that produce the precursors for these processes. In particular, we focused on nucleotide
260 metabolism by analyzing the expression patterns of enzymes catalyzing anabolic reactions
261 beginning from the tricarboxylic acid cycle precursor, glutamate to the final nucleos(t)ide
262 products. Pyrimidine biogenesis from the very early stages of the *carAB*-encoded reactions
263 down to the *pyrBCDEF*-encoded reactions were most highly expressed during the C phase
264 at ~12 hours and ~48 hours (**Fig4A**), consistent with previous reports of an increased
265 production of thymine nucleotides during DNA replication in *E coli* [27]. This also
266 corroborates reports of nucleotide pool sizes in *E coli* being insufficient for chromosome
267 replication and requiring *de novo* synthesis before the onset of the DNA replication phase
268 [28]. Unexpectedly, the converse expression pattern was observed for the first reaction
269 unique to guanosine synthesis (*guaB2*). While both adenosine and guanosine purine rings
270 are synthesized from the common precursor inosine monophosphate (IMP), the IMP
271 dehydrogenase, *GuaB2*, catalyses the *first* dedicated reaction unique to GMP synthesis.
272 *guaB2* peaked in expression during cytokinesis at ~21hours (**Fig4A**). Genes dedicated to
273 synthesizing adenosine from IMP, *purB* and *amk*, did not appear to be cell cycle regulated.

274

275 The reciprocal expression patterns of pyrimidine and guanosine synthetic genes suggested
276 that the requirement for these metabolites varied across the cell cycle and these
277 requirements were associated with distinct cellular events. To investigate this hypothesis,
278 we generated mutant *Mtb* strains in which synthesis of pyrimidines or guanosine was
279 inhibited via the inducible genetic depletion of the PyrE or GuaB2 proteins, respectively.
280 Each gene was fused to a C-terminal DAS+4 tag (DAS) that facilitated Clp protease-
281 mediated degradation upon removal of anhydrotetracycline (aTc). In both cases, protein
282 depletion inhibited bacterial growth (**Fig4B**), consistent with the essentiality of these
283 pathways [29]. As *Mtb* expresses three GuaB paralogs, we verified that GuaB2 is essential
284 for guanosine synthesis by supplementing the *guaB2-DAS* strain with 200uM guanine or
285 guanosine. Consistent with previous studies [30], guanine partially rescued the growth
286 defect of the depleted strain, whereas guanosine supplementation led to complete rescue
287 (**Fig4C**).

288
289 The inverse expression patterns of *pyr* genes and *guaB2* implied increased *de novo*
290 synthesis of pyrimidine nucleotides and guanosine was preferentially required for DNA
291 synthesis or cytokinesis, respectively. To test this hypothesis, we used morphological
292 criteria to infer which cellular processes were primarily impacted by the inhibition of these
293 nucleotide synthetic pathways. PyrE depletion resulted in cell elongation before growth
294 arrest. The mean cell length increased from 3.3uM to 4.2uM upon PyrE depletion (**Fig4D**).
295 A similar phenotype was observed upon DNA gyrase GyrB depletion and in cells treated
296 with the gyrase inhibiting fluoroquinolone, moxifloxacin (**Fig4D**), which disrupts DNA
297 replication and causes cell filamentation in *E coli* [33]. Cell elongation upon inhibition of

298 DNA replication is consistent with a number of previous observations in *B. subtilis* [31] and
299 *M. smegmatis* [32].

300

301 In contrast to the elongation observed upon PyrE depletion, GuaB2-depleted cells were the
302 same length as wild type, but many of these growth arrested cells had bulges at midcell or
303 one pole, suggesting that GuaB2 depletion may influence cell division (**Fig4D**). To
304 determine if the polar bulges were derived from misshapen septa, we performed time-
305 lapse microscopy in *M. smegmatis* cells treated with a specific chemical inhibitor of GuaB2
306 (VCC234718). Similar to genetic depletion, chemical inhibition of the GuaB2 enzyme also
307 inhibited growth and produced bulges at midcell or one pole (**Fig4E**). Time-lapse
308 microscopy revealed that cells began to bulge at midcell by the completion of 1-2 cell cycles
309 after the initiation of VCC234718 treatment, and that misshapen poles were derived from
310 these bulges. Taken together, these observations imply that the cellular requirement for
311 guanosine increases during cytokinesis, and that this requirement is reflected in the
312 aberrant septation of guanosine-depleted cells.

313

314 FtsZ is among the most abundant proteins in the cell and this tubulin-like protein binds and
315 hydrolyzes GTP [34] as it undergoes the cycles of polymerization and depolymerization
316 necessary for septation [35]. This GTP requirement suggested a possible mechanistic
317 connection between guanosine nucleotide levels and septation. To investigate whether the
318 effect of guanosine depletion on septation could be attributed to altered FtsZ dynamics, we
319 determined the effect of inhibiting both processes simultaneously using the GuaB2
320 inhibitor VCC234718 and C109, an inhibitor of FtsZ GTPase activity and polymerization

321 [36]. Consistent with the hypothesized mechanistic link, we observed significant
322 antagonism between these compounds. Even at concentrations of VCC234718 that alone
323 had no effect on growth (0.5 - 4 μ M), this compound consistently increased the IC₅₀ of C109
324 (Fig4F). In contrast, we found no interaction between VCC234718 and spectinomycin, an
325 inhibitor of another major GTP consuming pathway, translation. C109, has previously been
326 found to act additively with PCI90723, a compound that stabilizes the FtsZ filament. The
327 opposite antagonistic interaction we observed between C109 and a GuaB2 inhibitor implies
328 that guanosine inhibition inhibits polymerization, an effect that is consistent with the
329 known GTP requirement for FtsZ polymerization.[34], [37]. Taken together, these data are
330 consistent with a model in which transcriptional induction of GuaB2 during cytokinesis
331 coincides with the increased consumption of GTP by FtsZ, and the septal defects observed
332 on guanosine depletion are related to defects in FtsZ dynamics.

333

334 **Discussion**

335 Previously, global transcriptomic studies of the prokaryotic cell cycle have been limited to
336 the *C. crescentus* model. In this study, we leveraged a genetic strategy to synchronize *Mtb*
337 cultures, and characterized cell cycle associated transcriptional changes in this organism.
338 Comparisons between our *Mtb* studies and previously generated *C. crescentus* data are
339 limited by a number of technical differences, including the method and degree of
340 synchronization, that likely limited our ability to discern periodic patterns of relatively
341 small amplitude in the *Mtb* dataset. Regardless, our findings are broadly comparable to
342 observations in *C. crescentus*, as we found that a similar fraction of the genome is
343 differentially expressed across the cell cycle in both systems, and a small fraction of

344 orthologous genes are periodically-regulated in both. Despite these similarities, the
345 majority of cell-cycle associated transcriptional changes (82% of *C. crescentus* genes and
346 72% of *Mtb* genes) were unique to each organism. Thus, despite some similarities, our
347 analysis indicates that cell cycle progression is associated with distinct transcriptional
348 networks in these structurally and phylogenetically divergent organisms.

349

350 In a number of cases, we found that increases in mRNA abundance could be used to
351 associate genes with temporally-resolved cell cycle events, such as septation. The
352 sequential expression of divisome components as cell division progresses has been
353 observed previously in *C. crescentus* [6]. We provide functional evidence that this
354 hierarchical expression pattern is associated with the order of divisome assembly in
355 mycobacteria by demonstrating that the timing of gene induction correlates with the
356 recruitment of the encoded proteins to the developing septum. Based on transcriptional
357 data, we inferred the following order of assembly at the mycobacterial septum:
358 FtsZ>PknD>FtsW>LamA>SepIVA>DivIVA. The recruitment of these proteins spans
359 sequential processes of divisome assembly and new pole biogenesis. FtsZ initially marks
360 the future division site [38], facilitating the recruitment of divisome components such as
361 FtsW [39] and SepIVA [23]. The arrival of LamA at the later stages of assembly is
362 consistent with its role in delaying septation and thereby promoting asymmetric cell
363 division[40]. DivIVA is thought to be recruited to the negative curvature of the new pole
364 after septation[41][42][43] and the segregation of daughter cell cytoplasm [13]. While
365 these observations highlight that gene expression patterns can be used to predict the order
366 of complex assembly, the outcome of this coordination remains unclear. As only a subset of

367 currently known septal components were found to be periodically expressed,
368 transcriptional regulation is unlikely to be the primary determinant of assembly order.
369 Instead, this type of hierarchical gene expression has also been proposed as a mechanism
370 to maximize efficiency by restricting protein expression to the period when it is needed
371 [24][25]. Regulation of divisome assembly and function likely involves additional
372 posttranslational mechanisms, as we found that the Ser/Thr kinase, PknD, is recruited
373 relatively early in septal development and previous work described an important role for
374 the Ser/Thr phosphatase, PstP, in cell division[44], [45]. While it remains possible that
375 transcriptional regulation controls some aspects of septation, our data only show that
376 expression pattern can predict the timing of gene function.

377
378 The observed periodic expression of primary metabolic functions suggested the
379 importance of coordinating cell cycle events with the upstream pathways that provide their
380 precursors. This model is supported by our finding that pyrimidine synthetic genes peak
381 during a distinct cell cycle period than the dedicated guanosine synthetic gene, GuaB2; and
382 that the depletion of these genes primarily disrupts different cellular processes.

383 It is not surprising that the requirement for pyrimidines would increase during DNA
384 synthesis, as *de novo* nucleotide synthesis is necessary to replicate the chromosome[28].
385 However, the distinct cytokinesis defect observed upon GuaB2 depletion was
386 unanticipated. Guanine nucleotides are important for a myriad of cellular processes,
387 including DNA replication, transcription, and macromolecular synthesis. We speculate that
388 the preferential septation defect we observe upon GuaB2 depletion is related to the
389 relatively low affinity of FtsZ for GTP. An accurate determination of nucleotide pool sizes in

390 mycobacteria is still an open question [46], but in *E coli*, FtsZ has ~500-fold lower affinity
391 for GTP than the DnaE1 replicative DNA polymerase ($K_m \text{ FtsZ}_{\text{GTP}} = 1\text{mM}$ [47] ;
392 $K_m \text{ DnaE1}_{\text{GTP}} = 2\text{uM}$ [48]). Thus, the reported intracellular concentration of GTP[49] would
393 support only one-half of the V_{max} of FtsZ [47]. These data indicate that GTP levels may limit
394 FtsZ dynamics. It is likely that GuaB2 depletion leads to aberrant FtsZ activity and not a
395 complete loss of function, since genetic depletion of FtsZ leads to filamentation [50], a
396 phenotype distinct from the one we observe upon GuaB2 depletion. Instead, alterations in
397 FtsZ filament length or rate of turnover may underly these defects.

398
399 Both DNA replication and cell division are essential processes that have been the focus of
400 antibacterial drug discovery efforts[46][51]. In most cases, these efforts focus on
401 inhibiting a limited number of physical components of the bacterial replisome or divisome.
402 Our transcriptional data identified a wide variety of genes that are coordinately expressed
403 with the genes encoding these complexes, and therefore may be required for their activity.
404 While we have only investigated these functional dependencies in the context of nucleotide
405 synthesis, our data suggest that many similar dependencies exist and can be predicted from
406 transcriptional profiles. If so, these data could be used to identify a wealth of new
407 strategies for inhibiting these specific essential cellular processes.

408

409 **Acknowledgements**

410 We would like to thank Aashish Srivastava under the guidance of James Sacchettini and the
411 Texas A&M Genomics and Bioinformatics Service for sequencing the RNASeq libraries.
412 VCC234718 was a generous gift from Vinayak Singh & Valerie Mizrahi. C109 was a

413 generous gift from Vadim Makarov. Genetic depletion strains were generated as part of a
414 larger collaborative effort including the labs of Deborah Hung, Eric Rubin, Sabine Ehrt and
415 Dirk Schnappinger. Kenan Murphy and Charlotte Reames contributed to strain generation
416 from the Sassetti lab. We would like to thank Megan Proulx for critical reading of the
417 manuscript. This work was supported by grant AI095208 to CMS.

418

419 **Author contributions**

420 Conceptualization- ACB, TRI, CMS

421 Methodology- ACB, TRI

422 Investigation- ACB

423 Validation- ACB

424 Formal Analysis- ACB, SS, TRI

425 Writing Original Draft- ACB

426 Writing Review & Editing- ACB, TRI, CMS

427 Funding acquisition- CMS

428 Supervision- CMS

429 **Declaration of interests**

430 The authors declare no competing interests.

431

432 **Figure Legends**

433 **Figure 1: DNA replication and cytokinesis are segregated in synchronously growing**
434 **populations of Mtb**

435 (A) Growth of *Mtbcos* (left) and *MtbRv* (right) after release into permissive temperature

436 37°C. X axis: hours at 37°C. Y axis: Absorbance₆₀₀

437 (B) FhaA septation index assay to determine cytokinesis phase. Percentage of *Mtbcos* (left)
438 and *MtbRv* (right) populations containing an FhaA-venus focus localized at midcell after
439 release into permissive temperature. Data points are representative of two biological
440 replicates. Blue line is smoothed via the Gaussian process. The blue band indicates 95%
441 confidence interval. Significant difference between *Mtbcos* and *MtbRv* curves was
442 determined using a likelihood ratio test which determines if the data is fit best by a
443 combined model (null hypothesis) or separate strain specific models (alternate
444 hypothesis). Log_likelihood difference between combined and separate models = -38.489,
445 p-value (chi-squared distribution; df=3) = 1.1e-16.

446 (C) Origin/terminus assay to determine the DNA replication phase. Relative ori/ter ratio of
447 *Mtbcos* (left) and *MtbRv* (right) populations after release in permissive temperature. Data
448 points are representative of two biological replicates. Blue line is smoothed via the
449 Gaussian Process. The blue band indicates 95% confidence interval. Significant difference
450 between *Mtbcos* and *MtbRv* curves was determined using a likelihood ratio test
451 Log_likelihood difference between combined and separate models = -12.412, p-value (chi-
452 squared distribution; df=3) = 1.679e-05.

453

454 **Figure 2: Periodic gene expression correlates with cell cycle progression**

455 (A) Correlation matrix of DESeq normalized counts for single replicates of *Mtbcos* (top) and
456 *MtbRv* (bottom) for all 16 timepoints. (Blue: Pearson's correlation coefficient=0; Yellow:
457 Pearson's correlation coefficient=1).

458 (B) Relative expression (GP smoothed, DESeq normalized read count for each time point
459 divided by the mean value for that gene across time) of genes involved in DNA replication &
460 cell division (top panel); arginine catabolism & anabolism (bottom panel).
461 (C) Relative expression (standard normalized DESeq counts - each value is subtracted by
462 the mean for that gene across time and then divided by the standard deviation) of 485
463 periodically expressed genes in *Mtbcos* (rows) sorted by peak expression time (columns).
464 (D) Fraction of periodically expressed genes present in different Gene Ontology categories.
465 (E) Clusters containing periodic genes with expression patterns consistent with a role in
466 DNA replication. Known DNA replication/nucleotide biogenesis genes found in these
467 clusters are listed. X axis: hours post release into permissive temperature. Y axis Relative
468 expression (standard normalized DESeq counts - each value is subtracted by the mean for
469 that gene across time and then divided by the standard deviation)
470 (F) Overlap between periodically expressed (*Mtbcos*) and differentially expressed (*C.*
471 *crescentus*) mutual orthologs.

472

473 **Figure 3: mRNA abundance predicts the order of assembly of mycobacterial divisome**
474 **components and regulators**

475 (A) (Left) Clusters of *Mtbcos* genes with expression patterns that peak during the
476 cytokinesis period. (Right) Scaled relative expression (GP smoothed, DESeq normalized
477 read count for each time point divided by the mean value for that gene across time, then
478 scaled) of known cytokinesis genes from these clusters.

479 (B) (Left) Scaled relative expression of PknD and DivIVA. (Right) Time-lapse imaging of *M*
480 *smegmatis* expressing PknD-Venus (green) and DivIVA-RFP (red). Time (minutes) before
481 the arrival of DivIVA at midcell is indicated.

482 (C) (Left) Scaled relative expression of FtsW and DivIVA. (Right) Time-lapse imaging of *M*
483 *smegmatis* expressing FtsW-Venus (green) and DivIVA-RFP (red). Time (minutes) before
484 the arrival of DivIVA at midcell is indicated.

485 (D) Time (minutes) between initial arrival of PknD (n=10), FtsW (n=7) and DivIVA at
486 midcell. Error bars indicate mean \pm SD. Statistically significant difference between pknD
487 and ftsW determined using an unpaired T-test ($\alpha = 0.05$; $p = 0.0023$). Statistically significant
488 difference between ftsW and divIVA determined using a chi-squared test ($\alpha = 0.05$; $\chi^2 = 7$;
489 $df = 1$; $p < 0.01$).

490

491 **Figure 4: Guanosine synthesis influences cytokinesis in mycobacteria**

492 (A) Relative expression (GP smoothed, DESeq normalized read count for each time point
493 divided by the mean value for that gene across time) of IMP dehydrogenase *guaB2*
494 compared to pyrimidine biosynthesis genes *carA*, *carB*, *pyrB*, *pyrC*, *pyrD*, *pyrF*

495 (B) Cumulative growth (Absorbance₆₀₀) of *M tuberculosis* *guaB-2DAS* (top), *gyrB-DAS*
496 (center), *pyrE-DAS* (bottom) without depletion (solid line) and with depletion (dotted line).

497 Arrows indicate the time during the pre-depletion period when cultures were back diluted
498 into fresh growth medium. Data are represented as mean \pm SD of two biological replicates

499 (C) Growth (Absorbance₆₀₀) of *M tuberculosis* *guaB2-DAS* \pm depletion in the presence of
500 either 200 μ M guanine or guanosine. Data are represented as mean \pm SD of two biological
501 replicates.

502 (D) *M tuberculosis* cellular phenotypes upon genetic depletion of GuaB2, PyrE, GyrB.

503 Images were obtained after the cessation of growth in depleted cells. In the case of GuaB2,

504 septal bulges (arrowheads) and polar bulges (arrows) are indicated. Histograms indicate

505 the cell length distribution of cells in which the target was either not depleted (gray) or

506 depleted (black). *Mtb* was treated with 0.2 μ M moxifloxacin for 24 hours and imaged.

507 Histograms indicate the cell length distribution of cells in untreated (gray) or treated cells

508 (black). MFD = Maximum Feret Diameter (1 μ M \sim 0.11MFD). Statistically significant/non-

509 significant difference between the cell length distributions was determined using the

510 Mann-Whitney test. ($p_{\text{guaB2}}=0.214$; $p_{\text{pyrE}}<0.001$; $p_{\text{gyrB}}<0.001$; $p_{\text{moxifloxacin}}<0.001$)

511 (E) Time-lapse imaging at 20 minute intervals of GFP-expressing *M smegmatis* treated with

512 2 μ M VCC234718.

513 (F) Left: Susceptibility of *M smegmatis* to VCC234718. Data are represented as mean \pm SD

514 Center: Cross titration assay on GFP-expressing *M smegmatis* with the indicated

515 concentrations of VCC234718 and C109. Statistically significant difference between the

516 VCC alone curve and other curves was determined using an extra-sum-of-squares F-test

517 ($\alpha=0.05$). $p_{(\text{VCC } 0.5, \text{M})}= 0.0215$; $p_{(\text{VCC } 1, \text{M})}= 0.0284$; $p_{(\text{VCC } 2, \text{M})}= 0.0001$; $p_{(\text{VCC } 4, \text{M})}= 0.0019$

518 Right: Cross titration assay on GFP-expressing *M smegmatis* with the indicated

519 concentrations of VCC234718 and spectinomycin. The differences between the VCC alone

520 curve and other curves were not significant, as determined using an extra-sum-of-squares

521 F-test ($\alpha =0.05$). $p_{(\text{VCC } 0.5, \text{M})}= 0.9989$; $p_{(\text{VCC } 1, \text{M})}= 0.9999$; $p_{(\text{VCC } 2, \text{M})}=\text{ambiguous}$; $p_{(\text{VCC } 4, \text{M})}=\text{ambiguous}$

522 0.9978

523

524 **Materials and Methods**

525 **Strains**

526 The *Mtbcos* strain was obtained from [19]. *MtbRv* is the H37Rv strain used as an
527 unsynchronized control. *Mtbcos* and *MtbRv* expressing FhaA m-venus were transformed
528 with pKP887 (mycobacterial replicating plasmid MEH expressing MSMEG FhaA-Venus
529 expressed from the MSMEG *fhaA* native promoter (from K.P. Sundaram). *M smegmatis*
530 expressing ftsW-mVenus and divIVA-RFP was transformed with ptb21-ftsW-mVenus-MEK
531 and tb21-divIVA-RFP-MCtH. *M smegmatis* expressing pknD-mVenus and DivIVA-RFP was
532 transformed with p16-pknD-mVenus-MEK [52] and tb21-DivIVA-RFP-MCtH. *Mtb*
533 hypomorphs used in this study were generated as part of an earlier study [53] using a
534 controlled protein degradation system described previously[54]. Three strains were used
535 in this study: *Mtb guaB2*-DAS-Hyg^R+Giles-TetON1-sspB-str^R; *Mtb gyrB*-DAS-Hyg^R+Giles-
536 TetON6-sspB-str^R; *Mtb pyrE*-DAS-Hyg^R+Giles-TetON1-sspB-str^R. *M smegmatis* expressing
537 green fluorescence contains the plasmid CT161 (m-Venus pMV261 Hyg^R) obtained from
538 the Eric Rubin Lab.

539

540 **Mtbcos synchronization**

541 Cultures of *MtbdnaAcos115* generated in a previous study [19], *MtbH37Rv*,
542 *MtbdnaAcos115*-FhaA-Venus and *MtbH37Rv*-fhaA-Venus were grown in standard culture
543 media at 37°C under shaking conditions till OD₆₀₀ 0.4. The cells were shifted to 30°C for 36
544 hours. The cultures were then shifted to 37°C and the cultures were processed for either
545 DNA isolation, RNA isolation or fluorescent microscopy at the following times: 0h, 3h, 6.5h,
546 9h, 12h, 18.5h, 21h, 27h, 31h, 33h, 36h, 39.5h, 42h, 45.5h, 52h and 55h.

547

548 **Chromosomal DNA isolation**

549 Chromosomal DNA was isolated from the cell pellet of 5ml culture from each timepoint.
550 Briefly, 0.5 ml of chloroform:methanol (2:1) was added and the mixture was vortexed 5X
551 1min. 0.5ml of phenol:chloroform was added and the mixture was vortexed for 30 seconds.
552 Finally, 0.5ml of TE buffer was added. This was centrifuged at 12,000g at4C for 5 minutes.
553 The upper phase was mixed with 1 volume of chloroform and vortexed. After
554 centrifugation, the upper phase was added to a new tube and 1/10 volume of 3M sodium
555 acetate and 1 volume of isopropanol was added. Precipitated DNA was spun out of solution
556 and resuspended in 20ul of TE buffer.

557

558 **Origin:terminus assay**

559 Multiple primer sets (designed using the Primer3 design tool) amplifying 150bp at each
560 location (Origin-0MB region surrounding Rv0001; Terminus -2.2MB region surrounding
561 Rv1949c) of the *MtbH37Rv* genome were tested for amplification efficiency. Efficiency was
562 calculated from the negative slope of the standard curve of C_T v/s template concentration.
563 The primer sets with the highest and most similar efficiencies for both loci were selected
564 (95% for the origin and 93% for the terminus). Quantitative PCR was done using SYBR
565 green (Biorad iQ SYBR Green Supermix) with 2ng of gDNA template per reaction. Delta Ct
566 values were calculated as $dCt = C_{t_{ori}} - C_{t_{ter}}$. 2^{-dCt} values were then calculated for each
567 timepoint. These values were then divided by the mean 2^{-dCt} across all timepoints to
568 generate a relative ori/ter ratio for each timepoint.

569

570

571 **Microscopy**

572 Static imaging

573 At each time point post release into 37°C (Fig1B) or timepoint post genetic depletion of
574 GyrB, GuaB2 and PyrE (Fig4D), 1ml of *Mtb* culture was centrifuged and cells were re-
575 suspended in a phosphate buffered saline solution containing 0.05% Tween80 and 4%
576 paraformaldehyde. These fixed cells were then placed onto an agarose pad and DIC (Fig4D)
577 or wide field fluorescence imaging (Fig1B) was performed with a DeltaVision Personal DV
578 microscope (GE Healthcare) using a 60X oil immersion objective (AP). Cell lengths in Fig4D
579 were determined using CellProfiler™ [55] which calculates a MFD (Maximum Feret
580 Diameter) which is a measurement of the largest number of pixels between the two ends of
581 the cell obtained while rotating a caliper along all possible angles. The approximate
582 conversion factor of MFD to microns is 0.11. Calculating an MFD is especially useful for
583 measuring mycobacteria since all cells are not strict rods (cells undergo V-snapping prior
584 to resolution of cytokinesis and daughter cell separation). The cell debris observed during
585 GyrB depletion in Fig4D was excluded from cell length quantification by training
586 CellProfiler using CP Analyst™.

587 Live cell imaging

588 10ul of cells in logarithmic phase (OD_{600} 0.2-0.5) were spotted on a glass bottom 24-well
589 plate (MatTek Corporation). 500ul of molten Luria Bertani medium (40-50C) was spread
590 over the cells and allowed to solidify. For experiments with VCC234718, molten LB
591 containing 2uM final concentration of VCC234718 was prepared before layering over the
592 cells. Time-resolved imaging was performed with a DeltaVision Personal DV wide field
593 fluorescence microscope equipped with Ultimate Focus™ capabilities and an

594 environmental chamber warmed to 37 °C (Applied Precision). Images were taken at 5 or 10
595 minute intervals.

596

597 **RNA isolation, library preparation and sequencing**

598 At each timepoint, 45ml culture was pelleted and resuspended in 1ml of TRIzol
599 (Invitrogen) and transferred to lysing matrix tubes (MP Biomedicals: Lysing Matrix B).
600 Cells were lysed in a MP Biomedicals Fast Prep-24 homogenizer (maximum power-6.5, 4 X
601 30s cycles, rest on ice for 5 minutes in between cycles). RNA was purified according to the
602 manufacturer's directions. RNA cleanup was performed with Qiagen RNeasy Mini kit
603 (74104) omitting the DNase step. Instead, after elution, in-tube DNase treatment was
604 performed using Ambion DNase Turbo. RNeasy cleanup was repeated again with double
605 volumes of RLT and ethanol. RNA was subjected to rRNA removal with Ribozero Bacteria
606 kit (Illumina-MRZB12424). Deep sequencing library was prepared using KAPA Stranded
607 RNASeq kit (KK8401). The RNAseq libraries were sequenced on an Illumina 2500
608 instrument in paired-end mode, using a read-length of 150+150bp. The mean number of
609 reads per sample was 8.9M (range 4.2-16.5M). The reads were mapped to the H37Rv
610 genome using Burroughs Wheeler Alignment [56] with default parameter settings. Reads
611 mapping to each ORF were totaled (sense strand only). Because certain loci were over-
612 represented (e.g. *rrs*, *rnpB*, *ssr*, *Rv3661*, which had counts ~0.5-1M), counts were
613 truncated to a maximum coverage of 10,000 (reads/nt).

614

615 **Data normalization, filtering and centering**

616 The global expression profiles of *Mtbcos* samples showed a gradual increase in expression

617 of a few genes that dominate expression at latter time-points. Consequently, a
618 compensatory decrease was observed in expression of other genes, making normalization
619 by traditional reads per kilobase per million (RPKM) mis-representative. To correct for the
620 bias induced by these outliers, the normalization method implemented in DESeq2 [57] was
621 used, which first normalizes counts by the geometric mean for each gene across samples,
622 and then scales each dataset to have a common median (which is less sensitive to outliers).
623 This was applied to all 64 datasets (2 strains X 2 replicates X 16 time-points) in parallel. As
624 a result, the expression patterns were well-calibrated between time-points, with the
625 medians matched.

626 To identify a subset of genes with meaningful expression, the average expression over all
627 time-points was calculated for each gene and divided by gene length (in nucleotides). 1070
628 genes out of 4018 with coverage<0.25 were dropped because expression patterns for
629 genes with low expression are inherently noisy, leaving 2948 genes with coverage>0.25.
630 **(Supplementary Table 1)**. Additionally, we removed 127 genes out of 2948 genes whose
631 expression was >90% correlated between *Mtbcos* and *MtbRv* from subsequent analysis, as
632 their expression patterns were assumed to be determined more by time than by difference
633 in the strains. To center the expression values, the counts were divided by the mean for
634 that gene across all the time points. This was done independently for *Mtbcos* and *MtbRv*.

635

636 **Gaussian Process Smoothing**

637 In order to meaningfully integrate the data from the two replicates and to smooth out
638 profiles over time, we used a Gaussian Process (GP) to fit the raw data (septation index and
639 ori/ter – Fig1, gene expression- Fig2, Fig3, Fig4).

640 A GP model is a Bayesian model that estimates the probability distribution over functions
641 using Gaussian distributions for likelihood functions. The advantage of a GP is that it is
642 unbiased and therefore does not require assumptions of form of function. Instead, it only
643 assumes that adjacent time points are better coupled than distant time points and that this
644 correlation is based on Gaussian distributions.

645 A Gaussian Process is specified by a mean function and a covariance function

$$f(x) \sim GP(m(x), k(x, x'))$$

646 A prior mean $m(x)=0$ and a covariance function, squared exponential is given as:

$$k(x, x') = \sigma^2 \exp\left(-\frac{1}{2} \sum_{i=1}^d \frac{(x_i - x'_i)^2}{l_i^2}\right)$$

647 where l^2 = lengthscale, σ^2 = variance, d = input dimension

648 We normalized the expression value $e(g,t)$ (with addition of pseudocounts of 10) of each
649 gene g at each time point t by dividing the mean across all time points, and then taking log
650 base e transformation so that the normalized value $e'(g,t)$ fluctuates with a mean of 0. The
651 formula is given as:

$$e'(g, t) = \log_e e \frac{e(g, t)}{\sum_t^T e(g, t)}$$

652 Gaussian estimation of the expression levels for a gene at different time points, subject to
653 noise is given as:

$$y = f(x) + \varepsilon \quad \text{where: } \varepsilon \sim N(\mu, \sigma_n^2)$$

655 The predictive distribution for 15 test time points (~ 3 hour intervals, 3-55 hours),

656 $\{x_1, x_2, \dots, x_*\}$ is specified as:

$$p(f_* | x_*, x, y) = N(m(x_*), k(x_*))$$

657 where:

$$m(x_*) = k(x_*, x)^T (k(x, x) + \sigma^2 I)^{-1} y$$

$$k(x_*) = k(x_*, x_*) - k(x_*, x)^T (k(x, x) + \sigma^2 I)^{-1} k(x, x_*) + \sigma^2$$

658 We utilized the GPy Python package to fit the relative expression data (value for *cos1* and
659 *cos2* simultaneously normalized by the mean expression level across all 60 time points for
660 each gene using the following hyperparameters: variance = 1.0, noise variance = 0.1 and
661 lengthscale (range 1 ~ 50) optimized to Maximum Likelihood Estimate (MLE) using a grid
662 search method. After fitting the model, the predicted value (i.e. posterior mean) for each
663 time point can be extracted. **Fig S1B** shows the GP regression obtained for *polA* (Rv 1629:
664 DNA polymerase). Not only do the fitted values from the GP model generally interpolate
665 between the observed data at each time point, they also present a smoother profile by
666 averaging between adjacent time points to reduce noise. The error bands show the
667 uncertainty in the model (95% confidence interval which can be denoted as $\pm 1.96 * \sigma$, where
668 σ is the estimated standard deviation at each X-coordinate (time point) from the Gaussian
669 Process model based on variance of the training data and surrounding points).

670

671 **Periodicity Analysis**

672 Traditional signal analysis methods like Fourier analysis, Fisher's g-test, etc. as suggested
673 by Wichert et. al.[58] performed poorly on our dataset because our experiment captured
674 only about one-and-a-half cell-cycles. Thus, to identify periodic genes, we took an
675 approach of sinusoidal curve-fitting, reminiscent of the non-linear curve fitting method
676 described by Straume et.al. (COSIN2NL in COSOPT) [59]. We fit the expression profiles for
677 each gene to a sin curve with free parameters (including frequency, phase, and trend), and

678 selected genes with frequencies and amplitudes in a reasonable range. Goodness-of-fit was
679 measured using residual sum-of-squares (RSS). Importantly, it is difficult to draw an
680 absolute cutoff for significance based on RSS, since any data can be fit to a sin in some way,
681 and RSS incorporates intrinsic noise in the data (E.g. between replicate observations).
682 Hence, we took a comparative approach by also fitting the data to a quadratic curve, which
683 captures the general trend of the expression profiles. We then compared the RSS of the sin
684 fit to the RSS of the quadratic fit (which must also pay a similar price for noise in the same
685 data). Periodic genes are defined as those that exhibit oscillatory behavior above and
686 beyond the trend that can be represented by a quadratic. The curve fitting for each gene
687 was applied to the DESeq-normalized read counts (15 time-points, 2 replicates each). The
688 sinusoidal function implemented is written as:

$$689 \quad y_{\sin}(t) = A \sin(\omega t + \Phi) + B + Ct$$

690 where: A = Amplitude; ω = Frequency; B= Mean offset; Φ = phase shift; Ct= a linear term to
691 capture a net increasing or decreasing trend in the expression. The parameters in this
692 function were optimized using the *curve_fit()* function in SciPy using non-linear least-
693 squares. We then selected genes based on period length (27.5 hours < period < 55 hours)
694 and amplitude (≥ 0.7). We also removed genes with a correlation coefficient of > 0.9
695 between expression profiles in Cos versus Rv. The residual sum-of-squares (goodness-of-
696 fit) was calculated as follows:

$$RSS_{\sin} = \sum_{t=1..15, r=1,2} (y_{t,r} - y_{\sin}(t))^2$$

697 where y_{\sin} are the sin function estimates for each time point.

698 A similar curve-fitting approach was used to fit the data to a quadratic curve:

699
$$y_{quad}(t) = D t^2 + E t + F$$

700 using `curve_fit()` to optimize the parameters D, E, and F for each gene, and the residual was
701 calculated as:

$$RSS_{quad} = \sum_{t=1..15, r=1,2} (y_{t,r} - y_{quad}(t))^2$$

702 Finally, a score was calculated for each gene based on the ratio of residuals. To
703 meaningfully enrich periodic genes in *Mtbcos*, we used a Receiver Operating Characteristic
704 (ROC) curve to determine the RSS_{sin}/RSS_{quad} range where we optimally enrich for periodic
705 genes in *Mtbcos*. The RSS_{sin}/RSS_{quad} range was determined to be 0.35-0.45. A threshold of
706 0.45 was chosen based on examining plots (**Fig S3, S4**) that visually exhibit clear
707 oscillatory behavior (beyond the general trend). Thus, genes with a ratio of less than 0.45
708 were identified as periodic:

$$\frac{RSS_{sin}}{RSS_{quad}} < 0.45$$

709 which means that the sinusoidal fit reduces the residual error by more than two-fold over a
710 quadratic curve and hence fits the data better.

711 Using this comparative curve-fitting approach, 485 genes were identified as periodic
712 in *Mtbcos* (**Supplementary Table 2**), and only 183 genes in *MtbRv*, a ~2.6 fold
713 enrichment. To estimate the number of false positives in the set of 485 genes, we
714 randomized the data (by shuffling the genes and timepoints) and subjected the randomized
715 dataset to the same analysis as described above. This permutation analysis yielded only 14
716 periodic genes under the null hypothesis. Thus, we estimate the false discovery rate (FDR)
717 at approximately $14/4019 = 0.35\%$.

718

719 **Clustering**

720 Genes were clustered based on their expression profiles using hierarchical clustering
721 (*hclust()* in R), using the ward.D2 method [60] based on the Euclidean distance between
722 the vectors of expression values averaged between replicates over the 15 time points,
723 which were standard-normalized for each gene (subtract mean and divide by standard
724 deviation) to make the mean expression level equal to zero for each. The optimal number
725 of clusters was determined based on the Bayesian Information Criterion (BIC) using
726 *mclustBIC()* in the *mclust* R package [61], which showed that the optimal number of
727 clusters among the 485 *Mtbcos* periodic genes was 8 (using the 'VEE' model). The
728 dendrogram was then divided into 8 disjoint clusters using *cutree()*.

729

730 **Peak Assignment**

731 Using the GP fit data, we applied the following criteria to assign a peak to a gene's
732 expression profile. The time series T with n observations for each gene with smoothed
733 expression values $\{x_1, x_2, \dots, x_n\}$ at different time points $\{t_1, t_2, \dots, t_n\}$ was defined as:

$$T = \{(t_1, x_1), (t_2, x_2), \dots, (t_n, x_n)\}$$

734 First, to screen out the increasing or decreasing trend at the beginning and end of the time
735 series, and to focus on the cytokinesis phase in the middle of the time course, we excluded
736 the first and last two time points from the peak assignment. Second, to identify well-spaced
737 major peaks across time points, we defined a point x_i as a peak if it has a greater magnitude
738 than its two nearest neighbors on both sides. This is defined as:

$$x_i > x_{i+1}, x_{i+2}, x_{i-1}, x_{i-2} \quad \forall i = 3, 4, \dots, n - 2$$

739 Furthermore, to filter out the genes with lower fluctuations, the difference between the

740 magnitude of the highest peak x_h and the global minimum g_{min} was restricted to be greater
741 than 0.5. Additionally, in the case of more than one peak in the time series, all the peaks
742 were constrained to have at least a half magnitude of the highest peak in the expression
743 profile. Finally, a set of peaks P for a time series was identified as:

$$P = \{(t_i, x_i) | (x_i > x_{i+1}, x_{i+2}, x_{i-1}, x_{i-2}) \wedge (x_i - g_{min} > 0.5) \wedge (x_i \geq 0.5 * x_h)\} \quad \forall_i = 3, 4, \dots, n - 2$$

744 Among the significantly expressed genes, the peak assignment identified 1620 genes with a
745 single peak and 71 genes with two peaks in the *Mtbcos* strain compared to 903 genes with a
746 single peak and 8 genes with two peaks in *MtbRv*. Similarly, 1222 genes in the *cos* strain
747 and 2344 genes in the wild type did not have any major peak. This once again confirmed
748 that the gene expression levels in the *Mtbcos* strain show significantly higher fluctuations
749 than *MtbRv*.

750

751 **Supplemental figure legends**

752 FigS1A: Hierarchical clustering of relative expression of genes (rows) in *Mtbcos* (log
753 transformed DESeq normalized counts, centered around the mean, similarity metric:
754 centered correlation, clustering method: centroid linkage). Columns - hours at 37°C.

755 FigS1B: Expression profile of the DNA polymerase *polA*. Data from two replicates (yellow
756 and blue dashed lines), GP fit (solid blue line) and sinusoidal fit (pink dotted line) are
757 shown. Y axis: Relative expression (DESeq normalized value for each time point divided by
758 the mean *polA* expression value across all time points).

759 FigS2: Eight clusters containing the 485 periodic genes in *Mtbcos* (Distance matrix:
760 Euclidean, Clustering method: Hierarchical).

761 Fig S3: Sinusoidal fits (red) and quadratic fits (gray) to standard normalized DESeq read

762 counts (count-mean/SD) for all genes in *Mtbcos*

763 Fig S4: Sinusoidal fits (red) and quadratic fits (gray) to standard normalized DESeq read

764 counts (count-mean/SD) for all genes in *MtbRv*

765

766 **Supplemental tables**

767 Table 1: Normalized DESeq2 values for all detected 2948 genes which were deemed to be

768 significantly expressed. Each value represents relative expression, the DESeq2 value

769 normalized to the mean value of that gene across time. Genes determined to have one or

770 two peaks in expression are indicated along with their peak cluster assignment.

771 Table 2: Standard normalized DESeq2 values for the 485 periodic genes (Count -mean/SD).

772 Periodic gene cluster ID is indicated.

773 Table3: List of overlapping periodically expressed *Mtb* (this study) and differentially

774 expressed *C crescentus* [7] orthologs.

775

776

777 **References**

778 [1] C. E. Helmstetter and S. Cooper, "DNA synthesis during the division cycle of rapidly growing
779 *Escherichia coli* Br," *Journal of Molecular Biology*, vol. 31, no. 3, pp. 507–518, Feb. 1968,
780 doi: 10.1016/0022-2836(68)90424-5.

781 [2] S. Cooper and C. E. Helmstetter, "Chromosome replication and the division cycle of
782 *Escherichia coli* Br," *Journal of Molecular Biology*, vol. 31, no. 3, pp. 519–540, Feb. 1968,
783 doi: 10.1016/0022-2836(68)90425-7.

784 [3] B. Gibson, D. J. Wilson, E. Feil, and A. Eyre-Walker, "The distribution of bacterial doubling
785 times in the wild," *Proc Biol Sci*, vol. 285, no. 1880, Jun. 2018, doi:
786 10.1098/rspb.2018.0789.

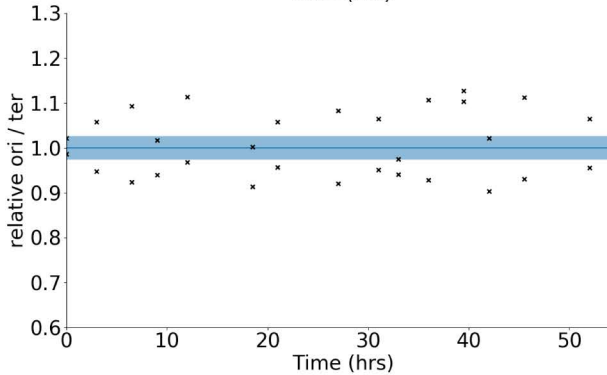
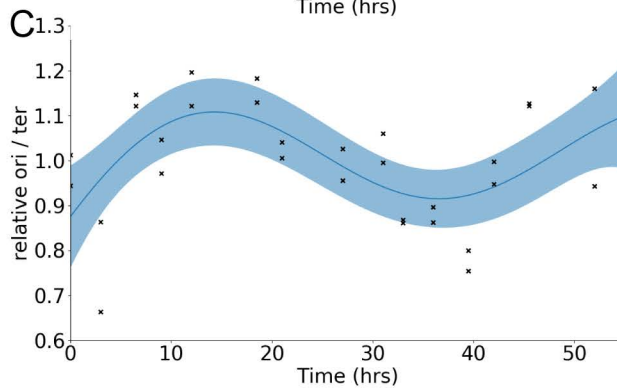
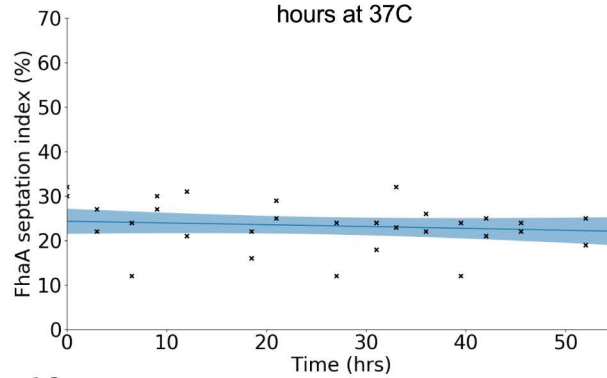
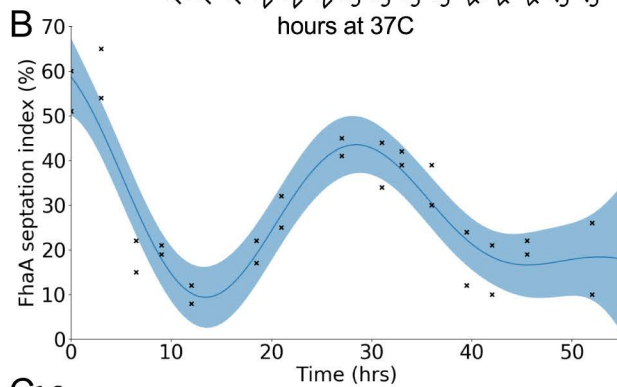
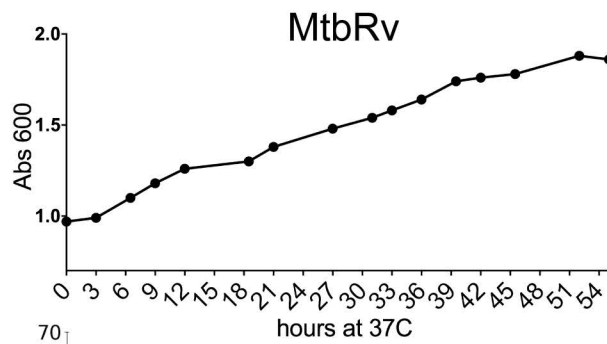
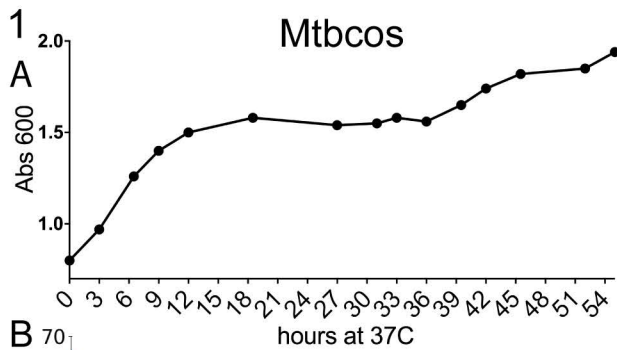
787 [4] H. E. Kubitschek' and C. N. NEWMANT, "Chromosome Replication During the Division Cycle
788 in Slowly Growing, Steady-State Cultures of Three *Escherichia coli* B/r Strains," vol. 136, p.
789 12, 1978.

- 790 [5] K. Skarstad, H. B. Steen, and E. Boye, "Cell cycle parameters of slowly growing *Escherichia*
791 *coli* B/r studied by flow cytometry.," *J Bacteriol*, vol. 154, no. 2, pp. 656–662, May 1983.
- 792 [6] M. T. Laub, H. H. McAdams, T. Feldblyum, C. M. Fraser, and L. Shapiro, "Global Analysis of
793 the Genetic Network Controlling a Bacterial Cell Cycle," *Science*, vol. 290, no. 5499, pp.
794 2144–2148, Dec. 2000, doi: 10.1126/science.290.5499.2144.
- 795 [7] G. Fang *et al.*, "Transcriptomic and phylogenetic analysis of a bacterial cell cycle reveals
796 strong associations between gene co-expression and evolution," *BMC Genomics*, vol. 14,
797 no. 1, p. 450, 2013, doi: 10.1186/1471-2164-14-450.
- 798 [8] M. Brillì *et al.*, "The diversity and evolution of cell cycle regulation in alpha-proteobacteria:
799 a comparative genomic analysis," *BMC Systems Biology*, vol. 4, no. 1, p. 52, Apr. 2010, doi:
800 10.1186/1752-0509-4-52.
- 801 [9] Z. Zhang, A. Miliás-Argeitis, and M. Heinemann, "Dynamic single-cell NAD(P)H
802 measurement reveals oscillatory metabolism throughout the *E. coli* cell division cycle," *Sci*
803 *Rep*, vol. 8, no. 1, p. 2162, Dec. 2018, doi: 10.1038/s41598-018-20550-7.
- 804 [10] H. Yaginuma *et al.*, "Diversity in ATP concentrations in a single bacterial cell population
805 revealed by quantitative single-cell imaging," *Sci Rep*, vol. 4, no. 1, p. 6522, May 2015, doi:
806 10.1038/srep06522.
- 807 [11] R. B. Weart, A. H. Lee, A.-C. Chien, D. P. Haeusser, N. S. Hill, and P. A. Levin, "A Metabolic
808 Sensor Governing Cell Size in Bacteria," *Cell*, vol. 130, no. 2, pp. 335–347, Jul. 2007, doi:
809 10.1016/j.cell.2007.05.043.
- 810 [12] N. S. Hill, P. J. Buske, Y. Shi, and P. A. Levin, "A Moonlighting Enzyme Links *Escherichia coli*
811 Cell Size with Central Metabolism," *PLoS Genet*, vol. 9, no. 7, p. e1003663, Jul. 2013, doi:
812 10.1371/journal.pgen.1003663.
- 813 [13] I. Santi, N. Dhar, D. Bousbaine, Y. Wakamoto, and J. D. McKinney, "Single-cell dynamics of
814 the chromosome replication and cell division cycles in mycobacteria," *Nat Commun*, vol. 4,
815 no. 1, p. 2470, Dec. 2013, doi: 10.1038/ncomms3470.
- 816 [14] I. Santi and J. D. McKinney, "Chromosome Organization and Replisome Dynamics in
817 *Mycobacterium smegmatis*," *mBio*, vol. 6, no. 1, pp. e01999-14, Feb. 2015, doi:
818 10.1128/mBio.01999-14.
- 819 [15] D. Trojanowski *et al.*, "Choreography of the *Mycobacterium* Replication Machinery during
820 the Cell Cycle," *mBio*, vol. 6, no. 1, pp. e02125-14, Feb. 2015, doi: 10.1128/mBio.02125-14.
- 821 [16] M. M. Logsdon *et al.*, "A Parallel Adder Coordinates Mycobacterial Cell-Cycle Progression
822 and Cell-Size Homeostasis in the Context of Asymmetric Growth and Organization,"
823 *Current Biology*, vol. 27, no. 21, pp. 3367-3374.e7, Nov. 2017, doi:
824 10.1016/j.cub.2017.09.046.
- 825 [17] D. Trojanowski, J. Hołowka, K. Ginda, D. Jakimowicz, and J. Zakrzewska-Czerwińska,
826 "Multifork chromosome replication in slow-growing bacteria," *Sci Rep*, vol. 7, no. 1, p.
827 43836, Apr. 2017, doi: 10.1038/srep43836.
- 828 [18] M. M. Logsdon and B. B. Aldridge, "Stable Regulation of Cell Cycle Events in Mycobacteria:
829 Insights From Inherently Heterogeneous Bacterial Populations," *Front. Microbiol.*, p. 514,
830 2018, doi: 10.3389/fmicb.2018.00514.
- 831 [19] N. Nair, R. Dziedzic, R. Greendyke, S. Muniruzzaman, M. Rajagopalan, and M. V. Madiraju,
832 "Synchronous replication initiation in novel *Mycobacterium tuberculosis dnaA* cold-

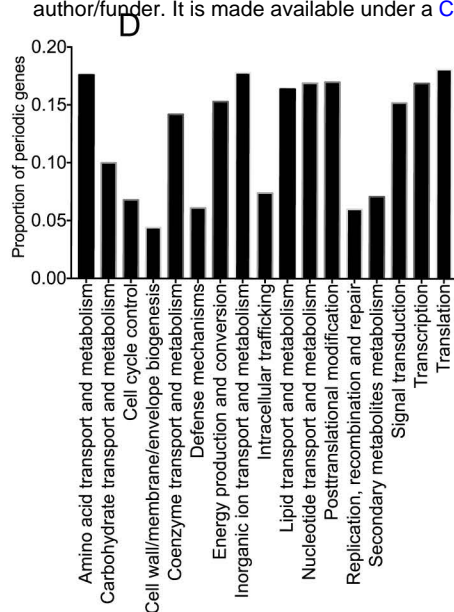
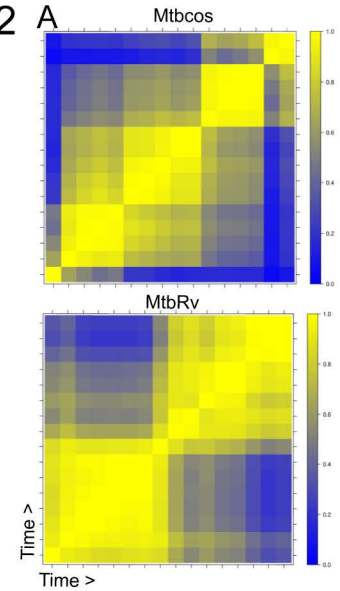
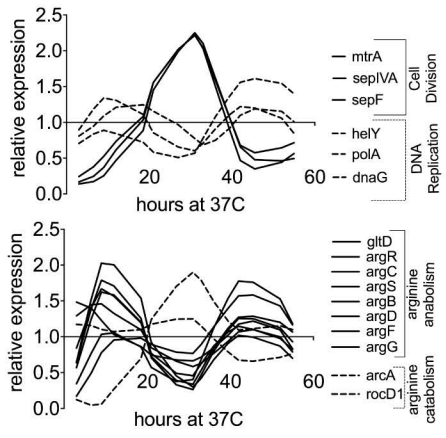
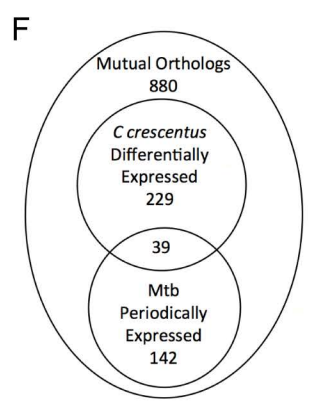
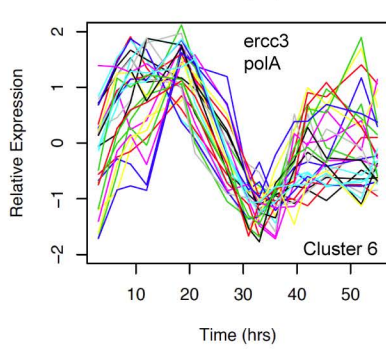
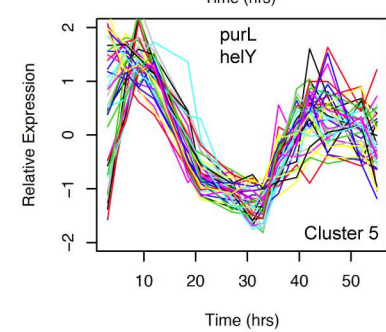
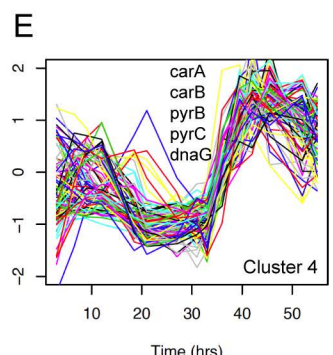
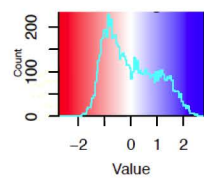
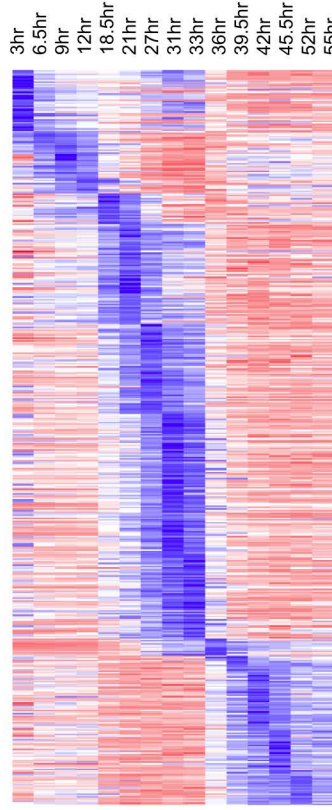
- 833 sensitive mutants," *Molecular Microbiology*, vol. 71, no. 2, pp. 291–304, 2009, doi:
834 10.1111/j.1365-2958.2008.06523.x.
- 835 [20] C. L. Gee *et al.*, "A Phosphorylated Pseudokinase Complex Controls Cell Wall Synthesis in
836 Mycobacteria," *Sci. Signal.*, vol. 5, no. 208, pp. ra7–ra7, Jan. 2012, doi:
837 10.1126/scisignal.2002525.
- 838 [21] R. Plocinska *et al.*, "Septal localization of the Mycobacterium tuberculosis MtrB sensor
839 kinase promotes MtrA regulon expression," *J. Biol. Chem.*, vol. 287, no. 28, pp. 23887–
840 23899, Jul. 2012, doi: 10.1074/jbc.M112.346544.
- 841 [22] S. Gola, T. Munder, S. Casonato, R. Manganelli, and M. Vicente, "The essential role of SepF
842 in mycobacterial division," *Molecular Microbiology*, vol. 97, no. 3, pp. 560–576, 2015, doi:
843 10.1111/mmi.13050.
- 844 [23] K. J. Wu *et al.*, "Characterization of Conserved and Novel Septal Factors in Mycobacterium
845 smegmatis," *Journal of Bacteriology*, vol. 200, no. 6, Mar. 2018, doi: 10.1128/JB.00649-17.
- 846 [24] S. Kalir *et al.*, "Ordering Genes in a Flagella Pathway by Analysis of Expression Kinetics
847 from Living Bacteria," *Science*, vol. 292, no. 5524, pp. 2080–2083, Jun. 2001, doi:
848 10.1126/science.1058758.
- 849 [25] A. Zaslaver *et al.*, "Just-in-time transcription program in metabolic pathways," *Nat Genet*,
850 vol. 36, no. 5, pp. 486–491, May 2004, doi: 10.1038/ng1348.
- 851 [26] K. J. Kieser and E. J. Rubin, "How sisters grow apart: mycobacterial growth and division,"
852 *Nat Rev Microbiol*, vol. 12, no. 8, pp. 550–562, Aug. 2014, doi: 10.1038/nrmicro3299.
- 853 [27] K. G. Lark, "Variation in bacterial acid-soluble deoxyribotides during discontinuous
854 deoxyribonucleic acid synthesis," *Biochimica et Biophysica Acta*, vol. 51, no. 1, pp. 107–
855 116, Jul. 1961, doi: 10.1016/0006-3002(61)91021-6.
- 856 [28] L. Huzyk and D. J. Clark, "Nucleoside Triphosphate Pools in Synchronous Cultures of
857 Escherichia coli," *Journal of Bacteriology*, vol. 108, no. 1, pp. 74–81, Oct. 1971.
- 858 [29] M. A. DeJesus *et al.*, "Comprehensive Essentiality Analysis of the Mycobacterium
859 tuberculosis Genome via Saturating Transposon Mutagenesis," *mBio*, vol. 8, no. 1, Mar.
860 2017, doi: 10.1128/mBio.02133-16.
- 861 [30] V. Singh *et al.*, "The Inosine Monophosphate Dehydrogenase, GuaB2, Is a Vulnerable New
862 Bactericidal Drug Target for Tuberculosis," *ACS Infect. Dis.*, vol. 3, no. 1, pp. 5–17, Jan.
863 2017, doi: 10.1021/acsinfecdis.6b00102.
- 864 [31] H. A. Arjes, A. Kriel, N. A. Sorto, J. T. Shaw, J. D. Wang, and P. A. Levin, "Failsafe
865 mechanisms couple division and DNA replication in bacteria," *Curr. Biol.*, vol. 24, no. 18,
866 pp. 2149–2155, Sep. 2014, doi: 10.1016/j.cub.2014.07.055.
- 867 [32] K. M. Mann *et al.*, "Rv0004 is a new essential member of the mycobacterial DNA
868 replication machinery," *PLOS Genetics*, vol. 13, no. 11, p. e1007115, Nov. 2017, doi:
869 10.1371/journal.pgen.1007115.
- 870 [33] J. M. Diver and R. Wise, "Morphological and biochemical changes in Escherichia coli after
871 exposure to ciprofloxacin," *J Antimicrob Chemother*, vol. 18, no. Supplement_D, pp. 31–41,
872 Nov. 1986, doi: 10.1093/jac/18.Supplement_D.31.
- 873 [34] P. de Boer, R. Crossley, and L. Rothfield, "The essential bacterial cell-division protein FtsZ is
874 a GTPase," *Nature*, vol. 359, no. 6392, pp. 254–256, Sep. 1992, doi: 10.1038/359254a0.

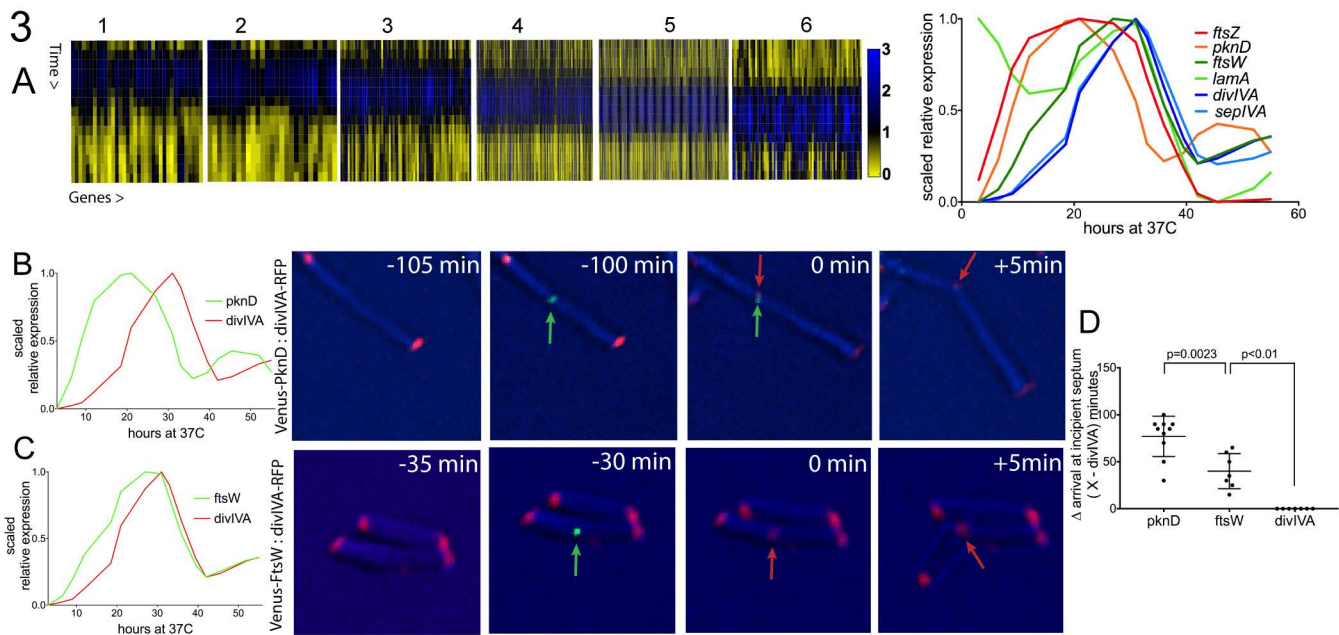
- 875 [35] A. W. Bisson-Filho *et al.*, “Treadmilling by FtsZ filaments drives peptidoglycan synthesis
876 and bacterial cell division,” *Science*, vol. 355, no. 6326, pp. 739–743, Feb. 2017, doi:
877 10.1126/science.aak9973.
- 878 [36] A. M. Hogan *et al.*, “Competitive Fitness of Essential Gene Knockdowns Reveals a Broad-
879 Spectrum Antibacterial Inhibitor of the Cell Division Protein FtsZ,” *Antimicrob Agents*
880 *Chemother*, vol. 62, no. 12, pp. e01231-18, /aac/62/12/e01231-18.atom, Oct. 2018, doi:
881 10.1128/AAC.01231-18.
- 882 [37] A. Mukherjee and J. Lutkenhaus, “Dynamic assembly of FtsZ regulated by GTP hydrolysis,”
883 *The EMBO Journal*, vol. 17, no. 2, pp. 462–469, Jan. 1998, doi: 10.1093/emboj/17.2.462.
- 884 [38] E. Bi and J. Lutkenhaus, “FtsZ ring structure associated with division in *Escherichia coli*,”
885 *Nature*, vol. 354, no. 6349, pp. 161–164, Nov. 1991, doi: 10.1038/354161a0.
- 886 [39] L. Wang, M. K. Khatyar, W. D. Donachie, and J. Lutkenhaus, “FtsI and FtsW Are Localized to
887 the Septum in *Escherichia coli*,” *Journal of Bacteriology*, vol. 180, no. 11, pp. 2810–2816,
888 Jun. 1998.
- 889 [40] E. H. Rego, R. E. Audette, and E. J. Rubin, “Deletion of a mycobacterial divisome factor
890 collapses single-cell phenotypic heterogeneity,” *Nature*, vol. 546, no. 7656, pp. 153–157,
891 Jun. 2017, doi: 10.1038/nature22361.
- 892 [41] R. Lenarcic *et al.*, “Localisation of DivIVA by targeting to negatively curved membranes,”
893 *EMBO J*, vol. 28, no. 15, pp. 2272–2282, Aug. 2009, doi: 10.1038/emboj.2009.129.
- 894 [42] K. S. Ramamurthi and R. Losick, “Negative membrane curvature as a cue for subcellular
895 localization of a bacterial protein,” *PNAS*, vol. 106, no. 32, pp. 13541–13545, Aug. 2009,
896 doi: 10.1073/pnas.0906851106.
- 897 [43] X. Meniche *et al.*, “Subpolar addition of new cell wall is directed by DivIVA in
898 mycobacteria,” *PNAS*, vol. 111, no. 31, pp. E3243–E3251, Aug. 2014, doi:
899 10.1073/pnas.1402158111.
- 900 [44] A. K. Sharma *et al.*, “Serine/Threonine Protein Phosphatase PstP of *Mycobacterium*
901 *tuberculosis* Is Necessary for Accurate Cell Division and Survival of Pathogen,” *J. Biol.*
902 *Chem.*, vol. 291, no. 46, pp. 24215–24230, Nov. 2016, doi: 10.1074/jbc.M116.754531.
- 903 [45] Iswahyudi *et al.*, “Mycobacterial phosphatase PstP regulates global serine threonine
904 phosphorylation and cell division,” *Sci Rep*, vol. 9, no. 1, p. 8337, Dec. 2019, doi:
905 10.1038/s41598-019-44841-9.
- 906 [46] D. F. Warner, T. Tønnum, and V. Mizrahi, “DNA Metabolism in Mycobacterial
907 Pathogenesis,” *Curr. Top. Microbiol. Immunol.*, May 2013, doi: 10.1007/82_2013_328.
- 908 [47] H. A. Arjes, B. Lai, E. Emelue, A. Steinbach, and P. A. Levin, “Mutations in the bacterial cell
909 division protein FtsZ highlight the role of GTP binding and longitudinal subunit interactions
910 in assembly and function,” *BMC Microbiol*, vol. 15, no. 1, p. 209, Dec. 2015, doi:
911 10.1186/s12866-015-0544-z.
- 912 [48] J. M. Rock *et al.*, “DNA replication fidelity in *Mycobacterium tuberculosis* is mediated by an
913 ancestral prokaryotic proofreader,” *Nat Genet*, vol. 47, no. 6, pp. 677–681, Jun. 2015, doi:
914 10.1038/ng.3269.
- 915 [49] M. H. Buckstein, J. He, and H. Rubin, “Characterization of Nucleotide Pools as a Function of
916 Physiological State in *Escherichia coli*,” *Journal of Bacteriology*, vol. 190, no. 2, pp. 718–
917 726, Jan. 2008, doi: 10.1128/JB.01020-07.

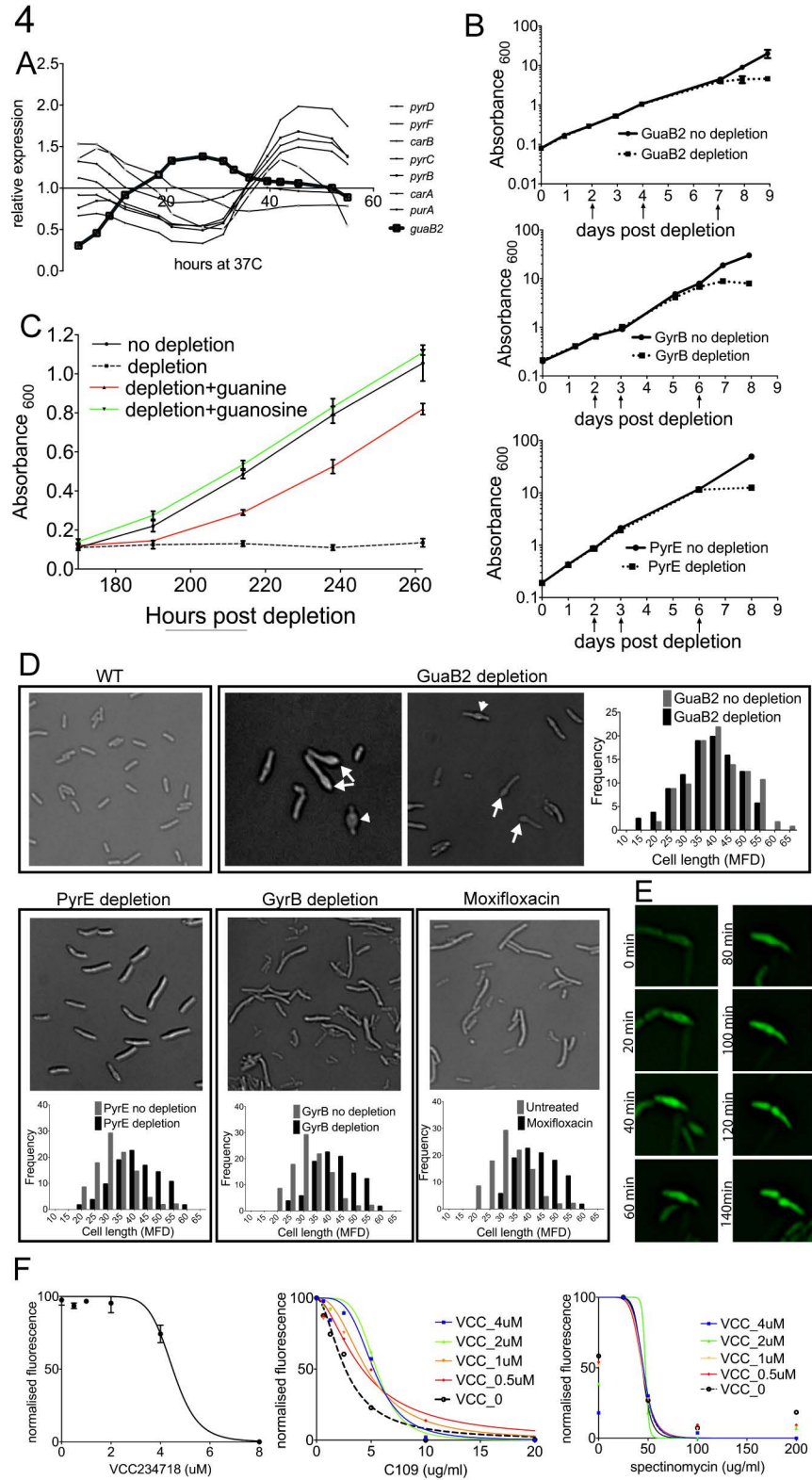
- 918 [50] S. Ehrt *et al.*, “Controlling gene expression in mycobacteria with anhydrotetracycline and
919 Tet repressor,” *Nucleic Acids Res*, vol. 33, no. 2, p. e21, 2005, doi: 10.1093/nar/gni013.
- 920 [51] P. Sass and H. Brötz-Oesterhelt, “Bacterial cell division as a target for new antibiotics,”
921 *Current Opinion in Microbiology*, vol. 16, no. 5, pp. 522–530, Oct. 2013, doi:
922 10.1016/j.mib.2013.07.006.
- 923 [52] C. E. Baer, A. T. Iavarone, T. Alber, and C. M. Sasseti, “Biochemical and Spatial Coincidence
924 in the Provisional Ser/Thr Protein Kinase Interaction Network of Mycobacterium
925 tuberculosis,” *J. Biol. Chem.*, p. jbc.M114.559054, Jun. 2014, doi:
926 10.1074/jbc.M114.559054.
- 927 [53] E. O. Johnson *et al.*, “Large-scale chemical–genetics yields new M. tuberculosis inhibitor
928 classes,” *Nature*, vol. 571, no. 7763, pp. 72–78, Jul. 2019, doi: 10.1038/s41586-019-1315-z.
- 929 [54] J.-H. Kim, J.-R. Wei, J. B. Wallach, R. S. Robbins, E. J. Rubin, and D. Schnappinger, “Protein
930 inactivation in mycobacteria by controlled proteolysis and its application to deplete the
931 beta subunit of RNA polymerase,” *Nucleic Acids Research*, vol. 39, no. 6, pp. 2210–2220,
932 Mar. 2011, doi: 10.1093/nar/gkq1149.
- 933 [55] A. E. Carpenter *et al.*, “CellProfiler: image analysis software for identifying and quantifying
934 cell phenotypes,” *Genome Biology*, vol. 7, no. 10, p. R100, Oct. 2006, doi: 10.1186/gb-
935 2006-7-10-r100.
- 936 [56] H. Li and R. Durbin, “Fast and accurate short read alignment with Burrows–Wheeler
937 transform,” *Bioinformatics*, vol. 25, no. 14, pp. 1754–1760, Jul. 2009, doi:
938 10.1093/bioinformatics/btp324.
- 939 [57] M. I. Love, W. Huber, and S. Anders, “Moderated estimation of fold change and dispersion
940 for RNA-seq data with DESeq2,” *Genome Biol*, vol. 15, no. 12, 2014, doi: 10.1186/s13059-
941 014-0550-8.
- 942 [58] S. Wichert, K. Fokianos, and K. Strimmer, “Identifying periodically expressed transcripts in
943 microarray time series data,” *Bioinformatics*, vol. 20, no. 1, pp. 5–20, Jan. 2004, doi:
944 10.1093/bioinformatics/btg364.
- 945 [59] M. Straume, “DNA microarray time series analysis: automated statistical assessment of
946 circadian rhythms in gene expression patterning,” *Meth. Enzymol.*, vol. 383, pp. 149–166,
947 2004, doi: 10.1016/S0076-6879(04)83007-6.
- 948 [60] J. H. W. Jr, “Hierarchical Grouping to Optimize an Objective Function,” *Journal of the
949 American Statistical Association*, vol. 58, no. 301, pp. 236–244, Mar. 1963, doi:
950 10.1080/01621459.1963.10500845.
- 951 [61] L. Scrucca, M. Fop, T. B. Murphy, and A. E. Raftery, “mclust 5: Clustering, Classification and
952 Density Estimation Using Gaussian Finite Mixture Models,” *R J*, vol. 8, no. 1, pp. 289–317,
953 Aug. 2016.
- 954



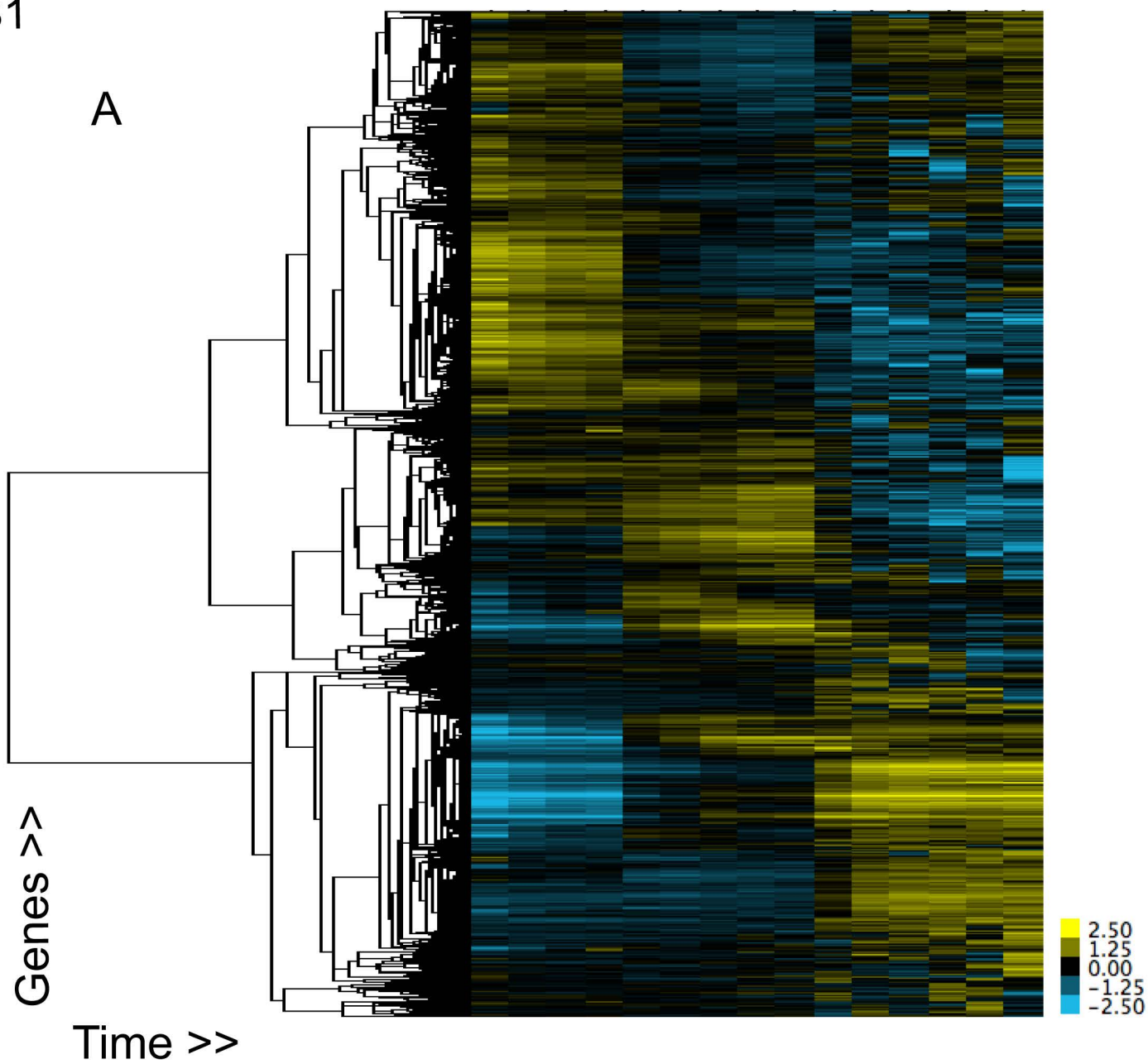
2

**B****C**

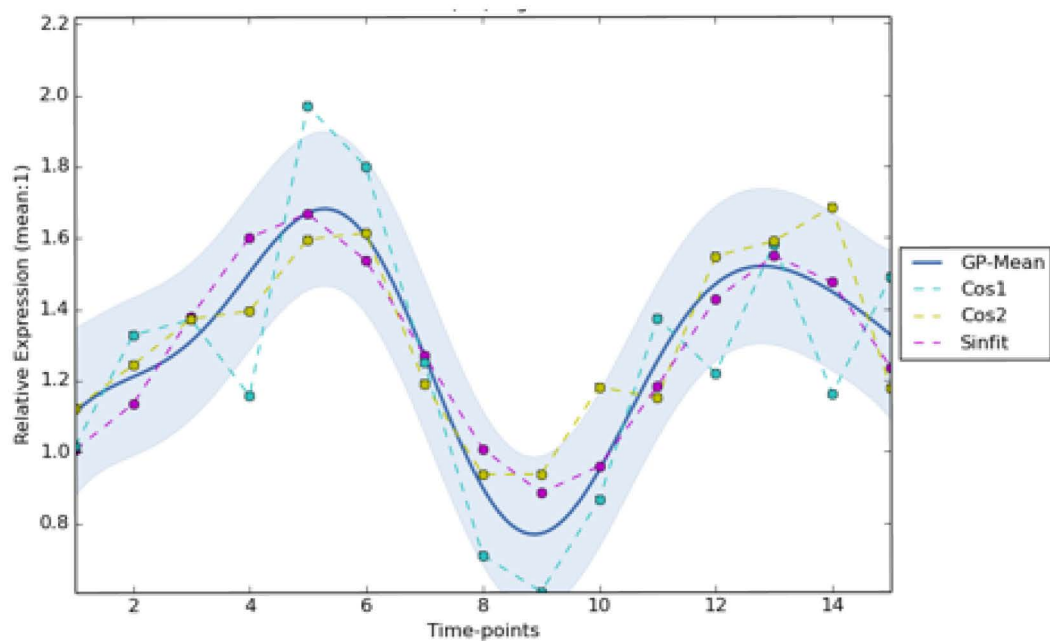




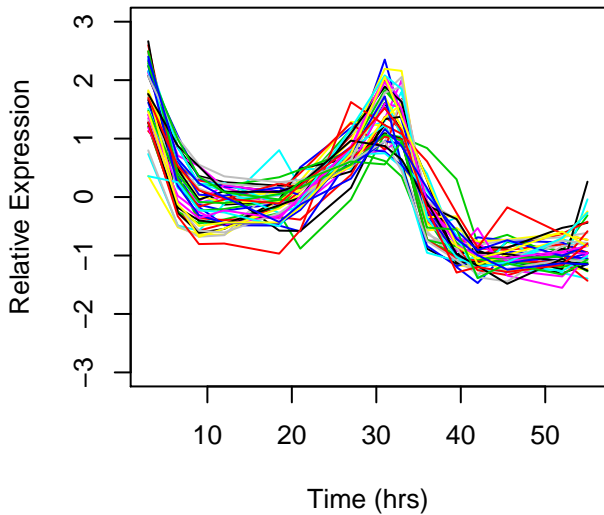
S1



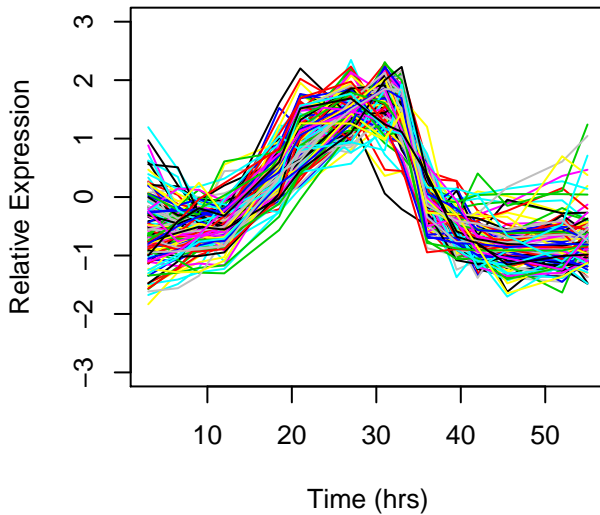
B



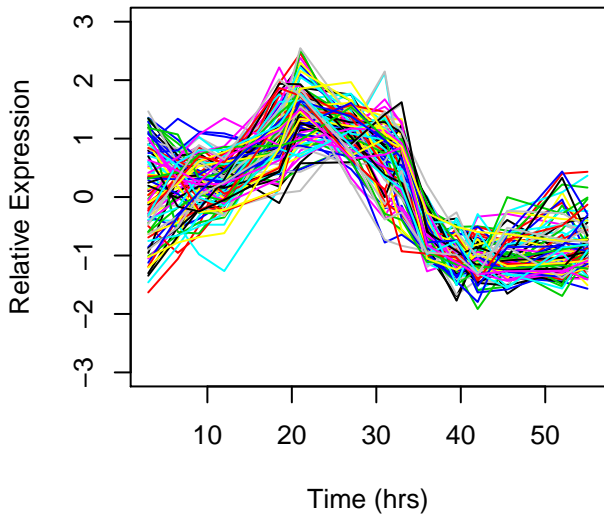
Cluster 1



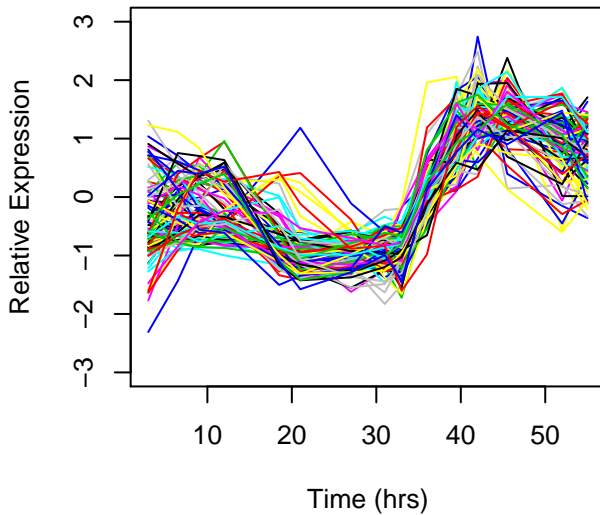
Cluster 2



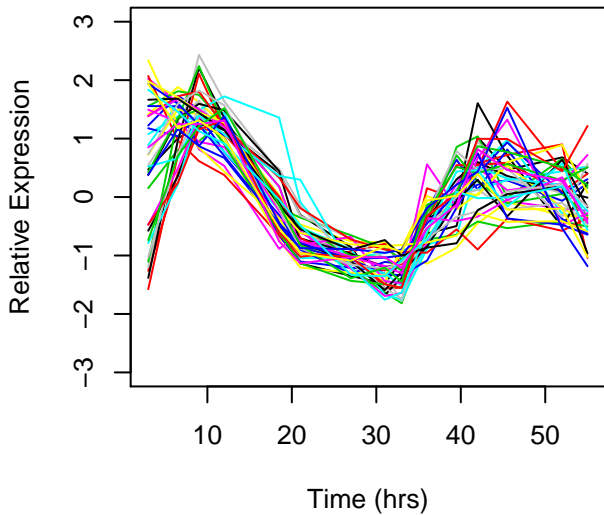
Cluster 3



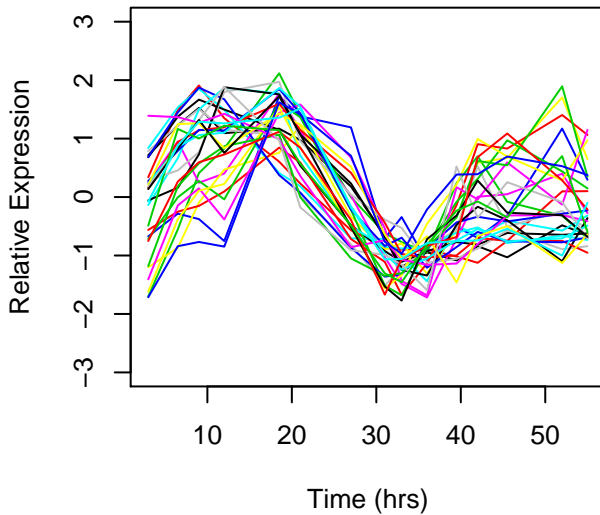
Cluster 4



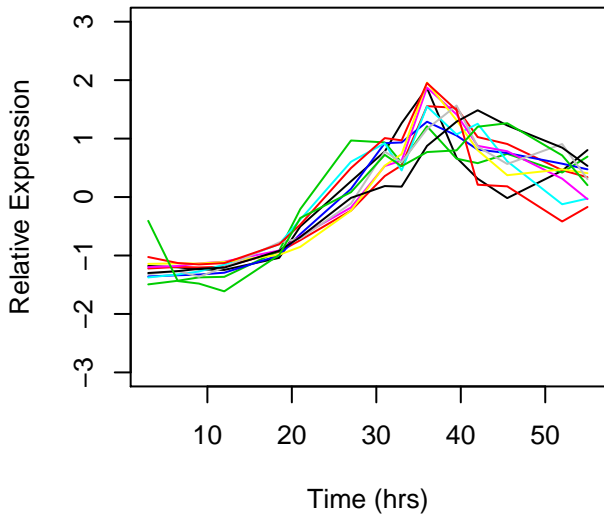
Cluster 5



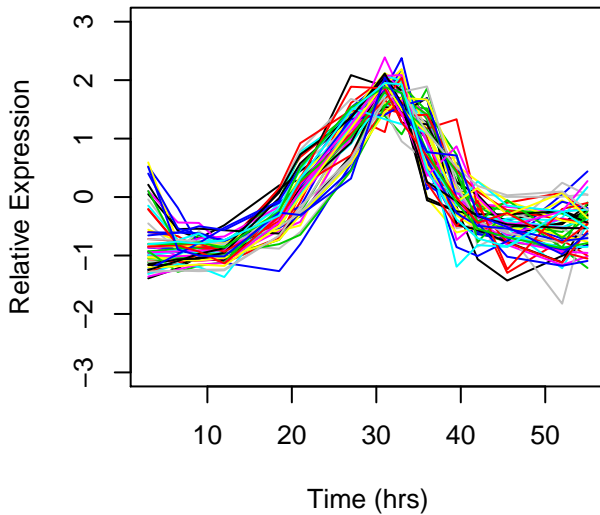
Cluster 6



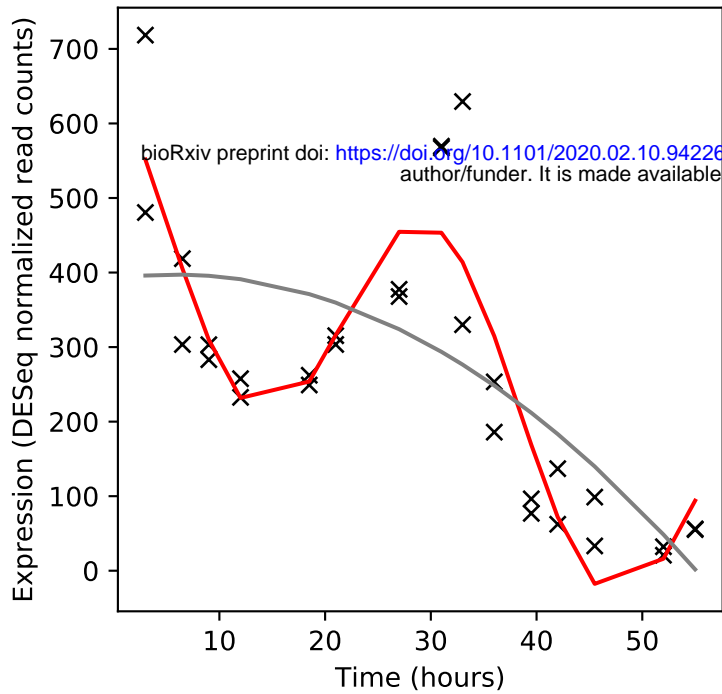
Cluster 7



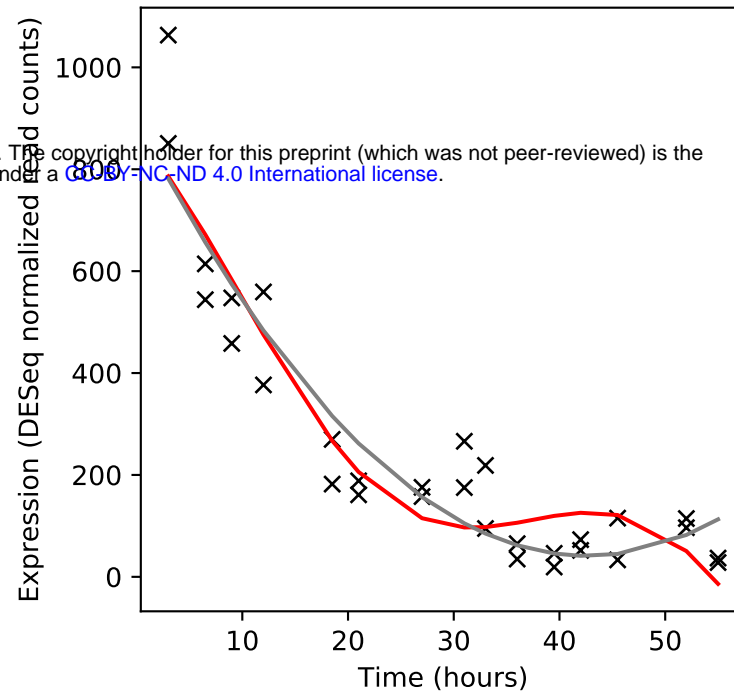
Cluster 8



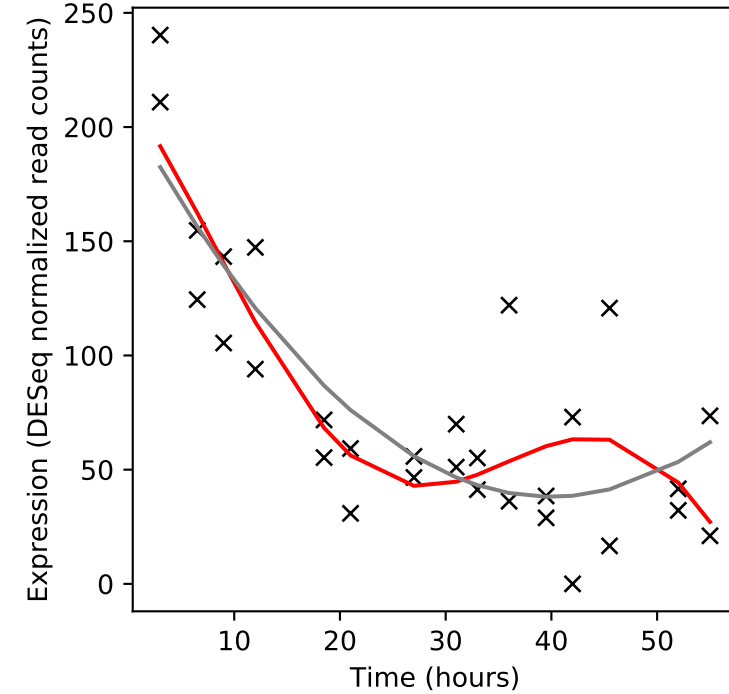
Rv0001/dnaA



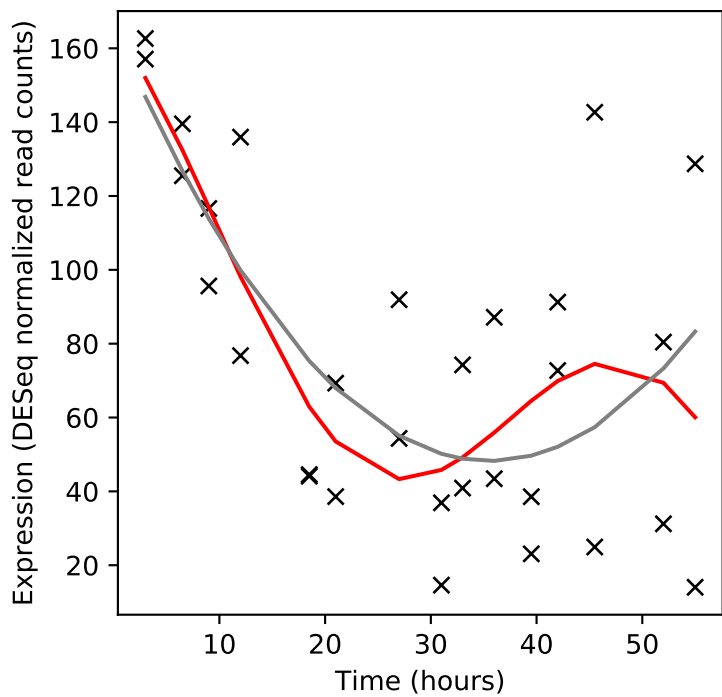
Rv0002/dnaN



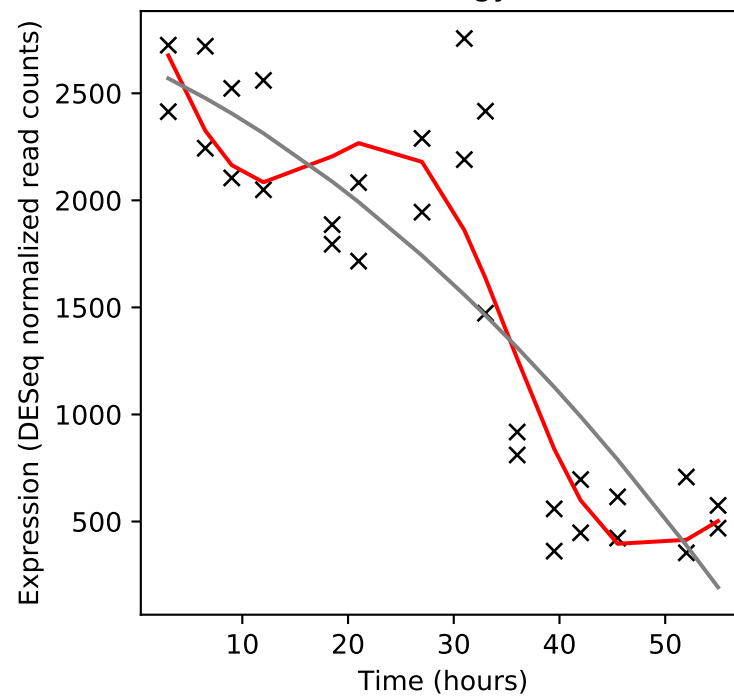
Rv0003/recF



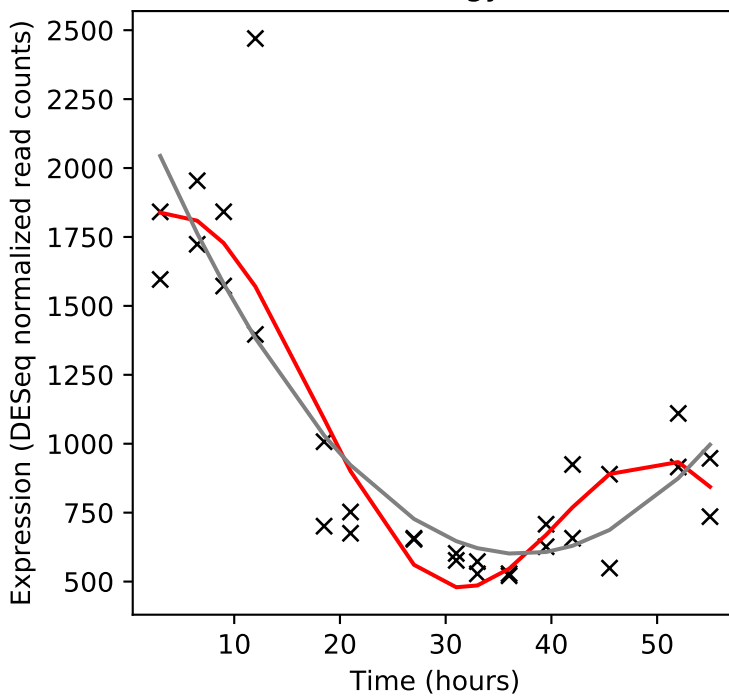
Rv0004/-



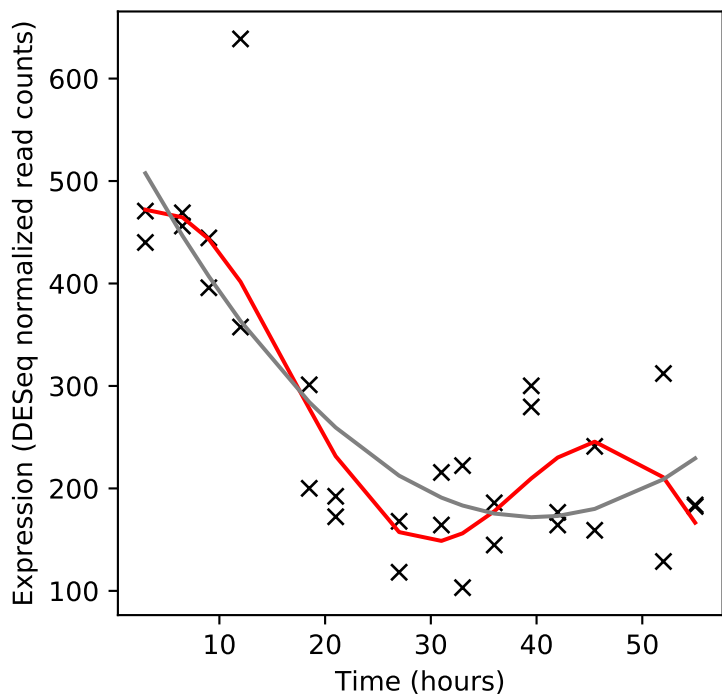
Rv0005/gyrB



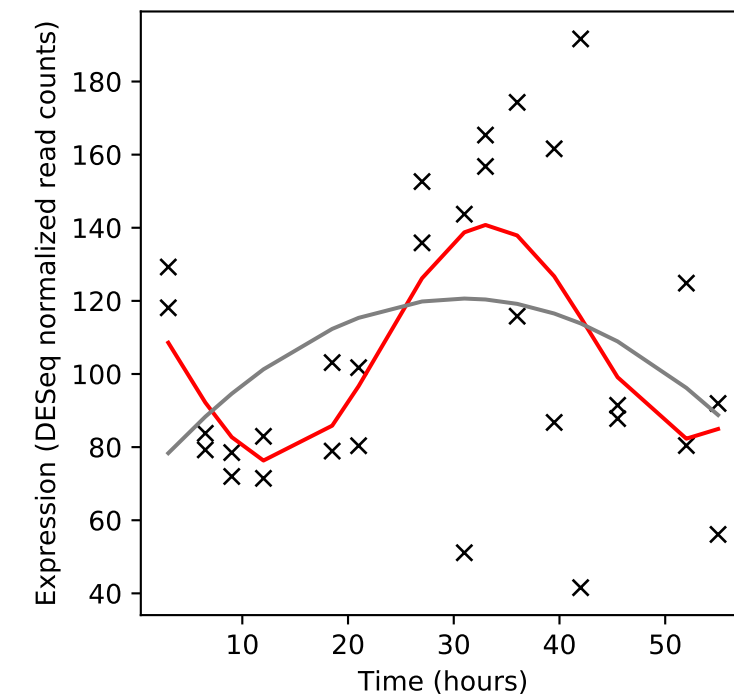
Rv0006/gyrA



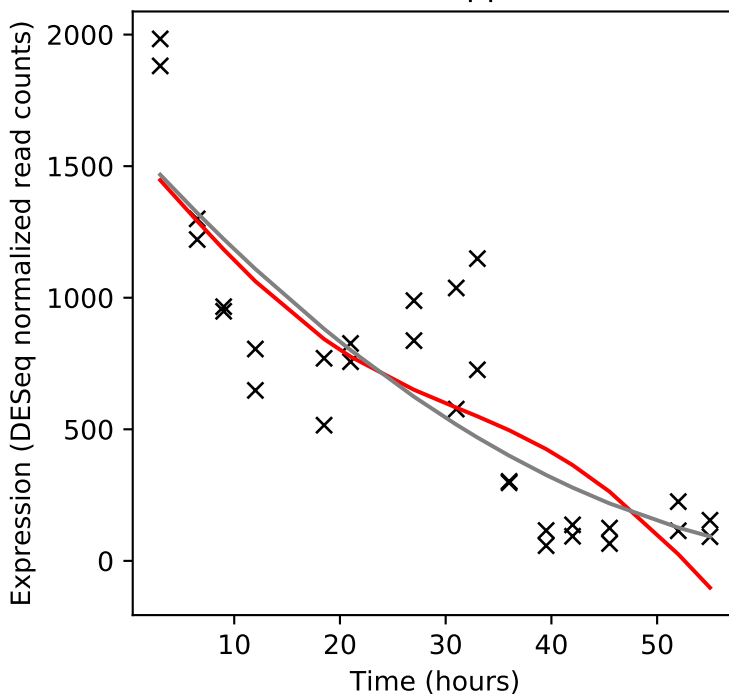
Rv0007/-



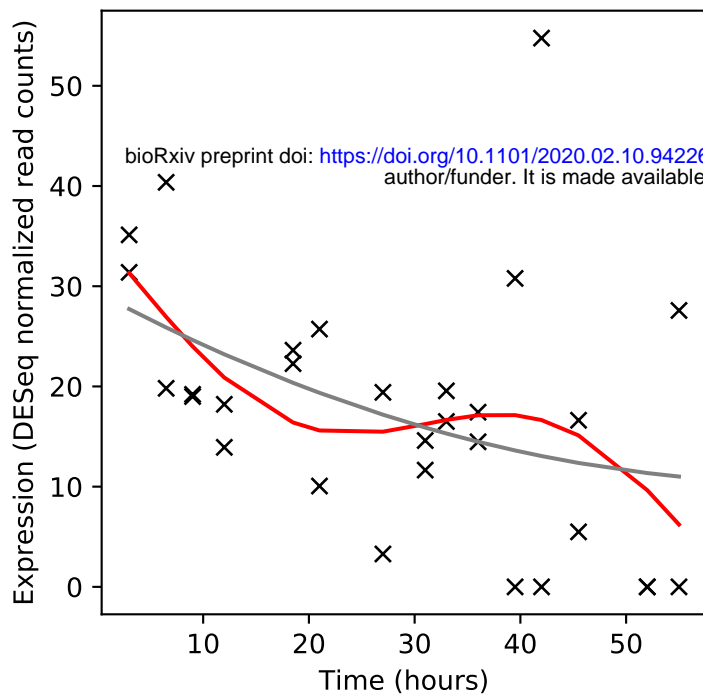
Rv0008c/-



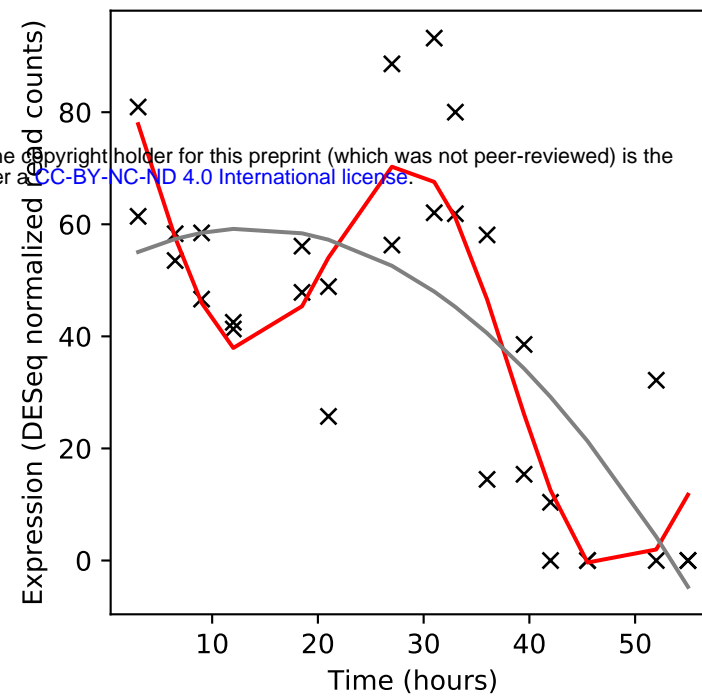
Rv0009/ppiA



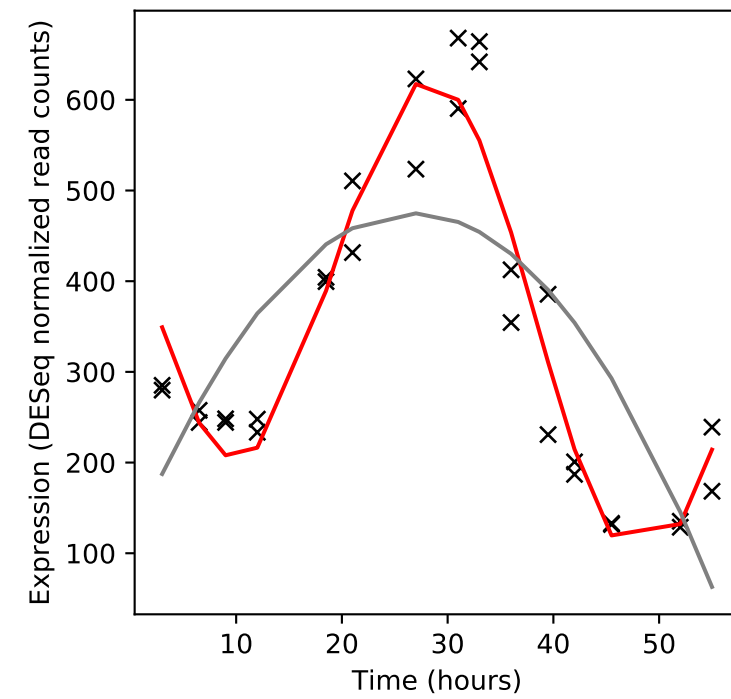
Rv0010c/-



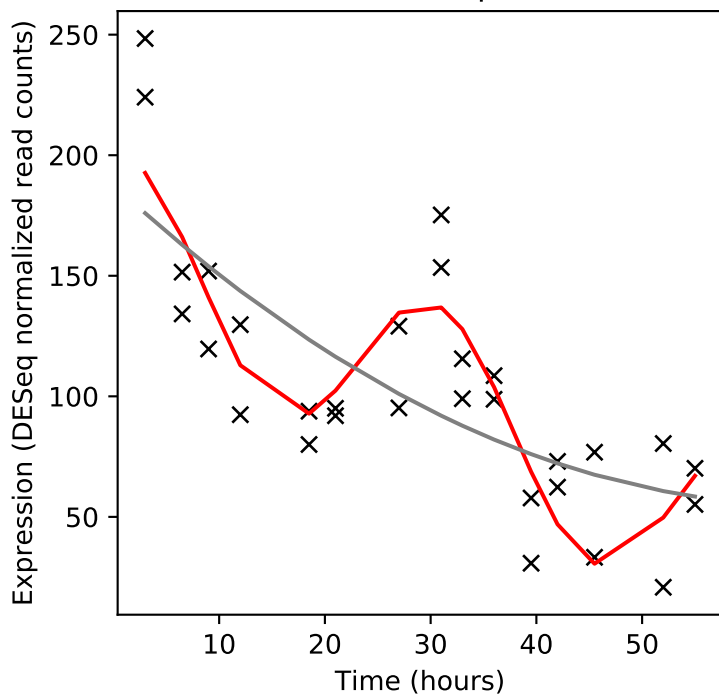
Rv0011c/-



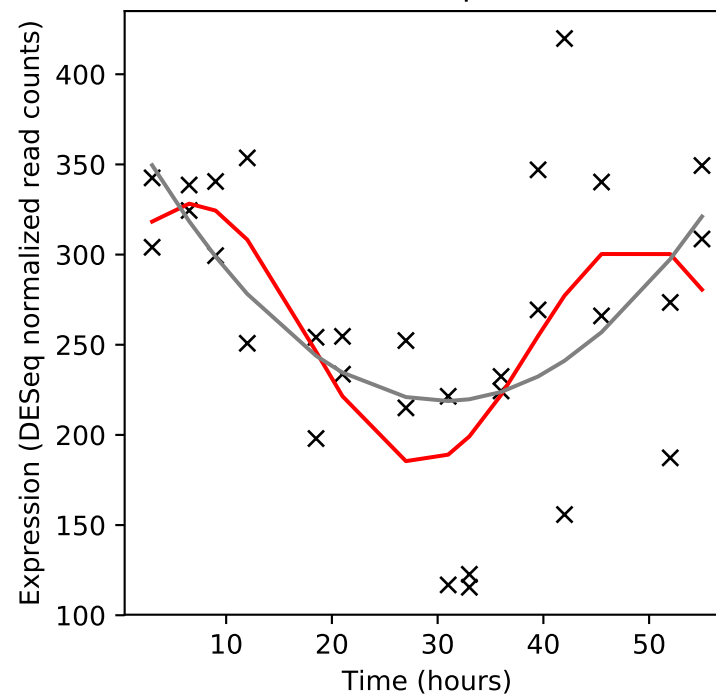
Rv0012c/-



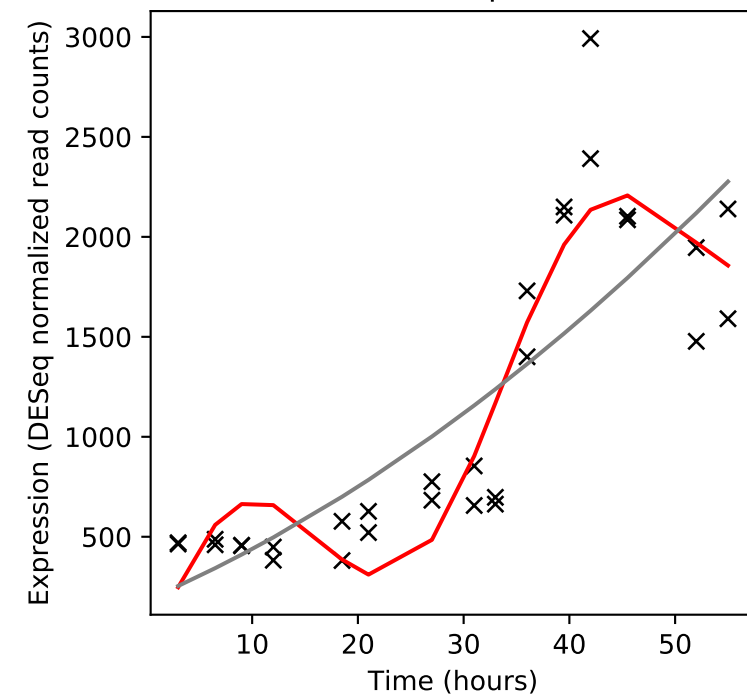
Rv0013/trpG



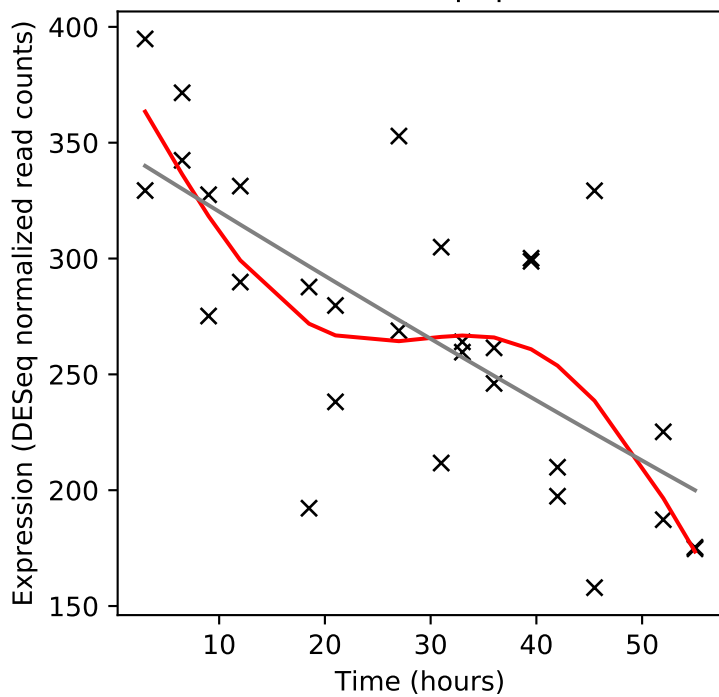
Rv0014c/pknB



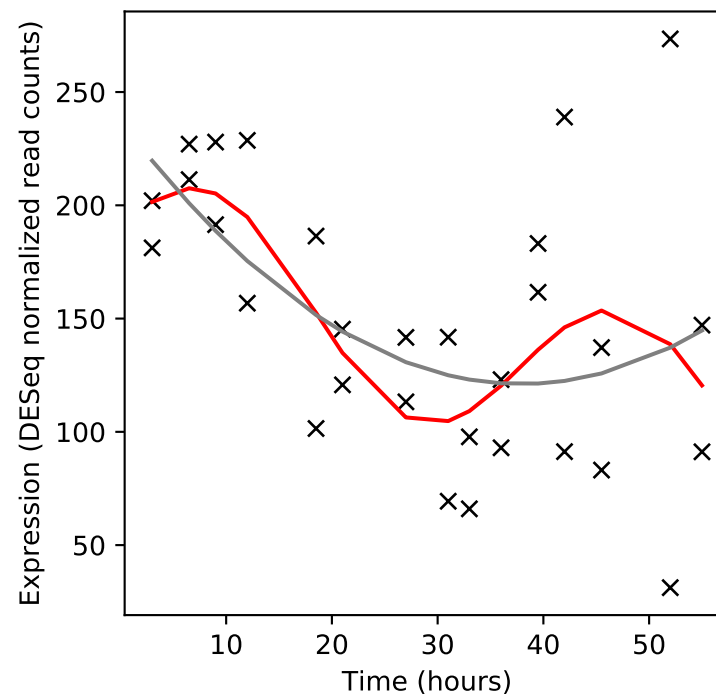
Rv0015c/pknA



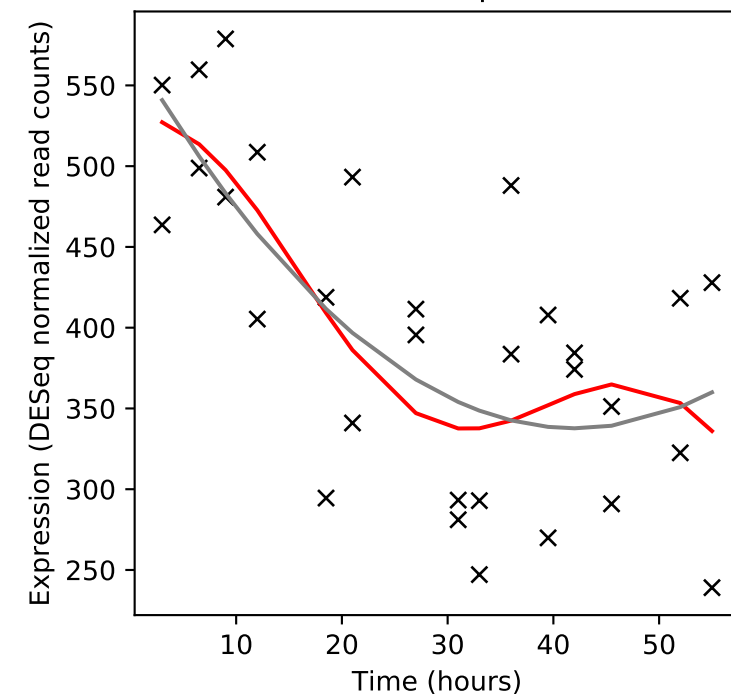
Rv0016c/pbpA



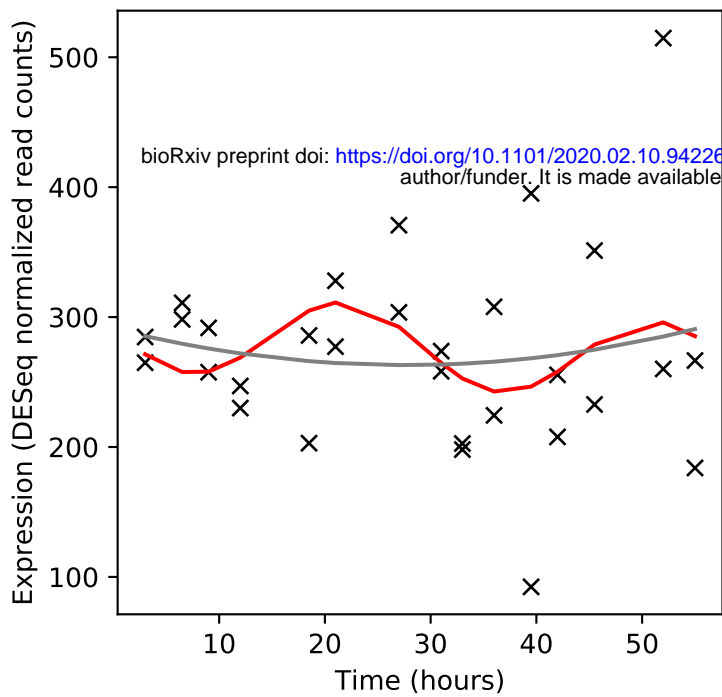
Rv0017c/rodA



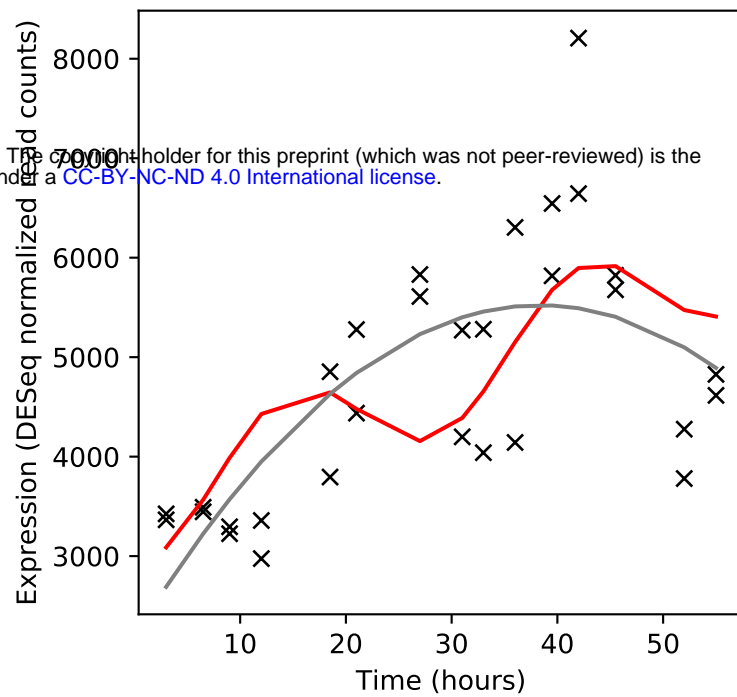
Rv0018c/pstP



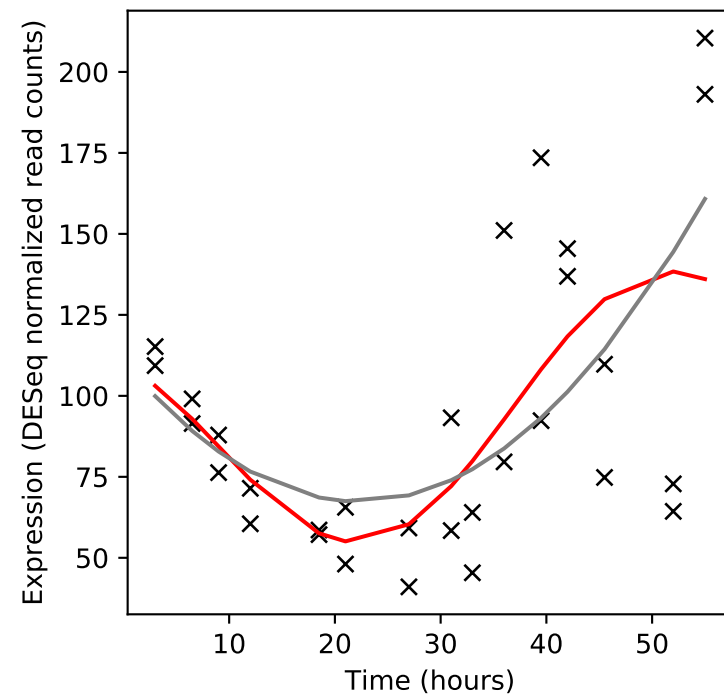
Rv0019c/fhaB



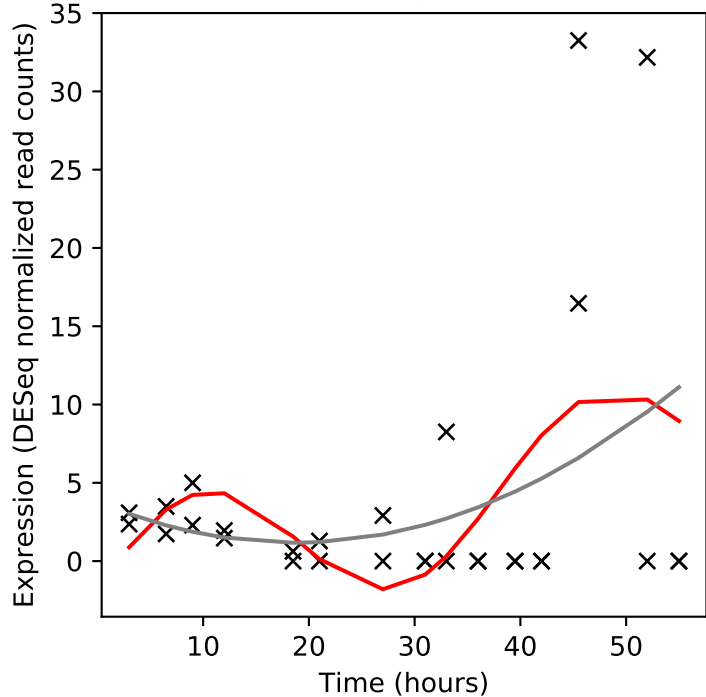
Rv0020c/fhaA



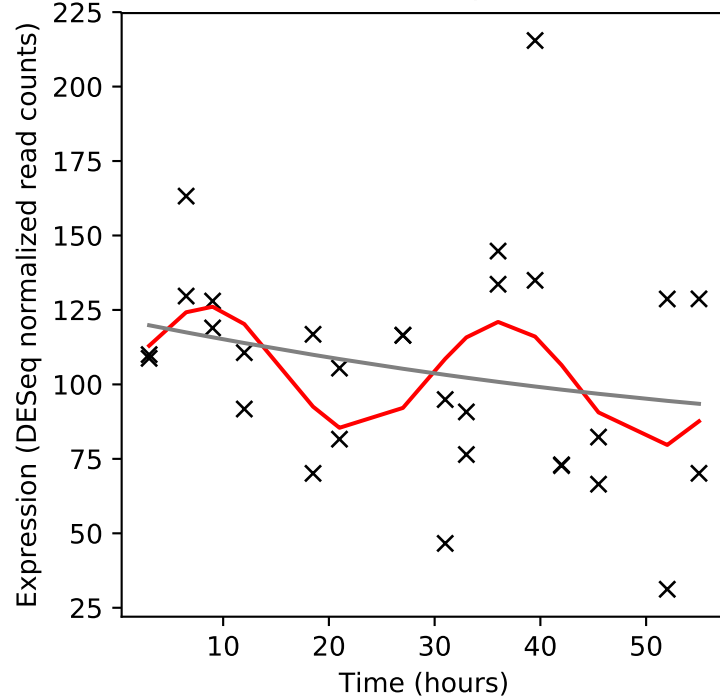
Rv0021c/-



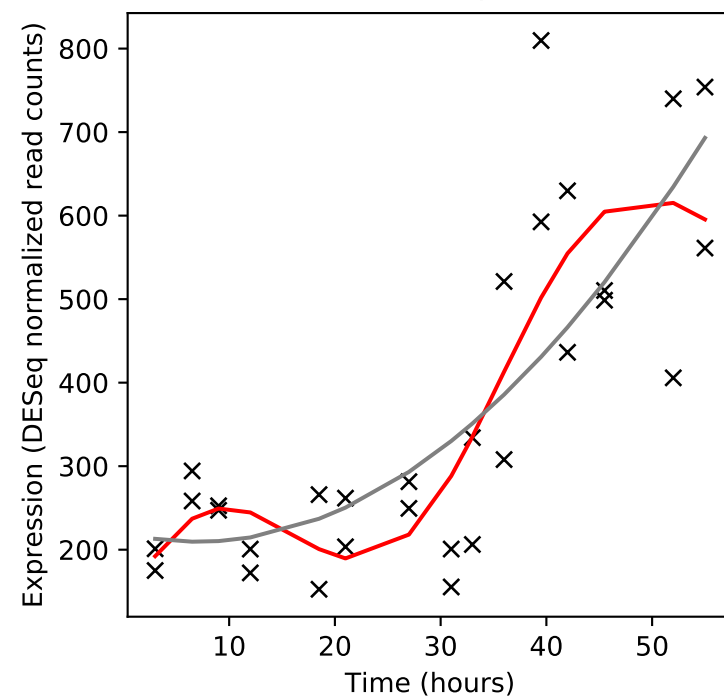
Rv0022c/whiB5



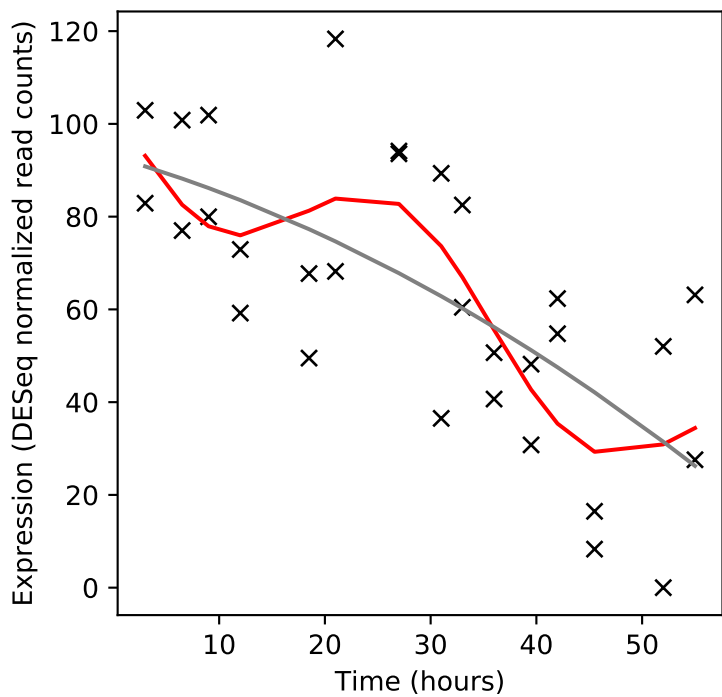
Rv0023/-



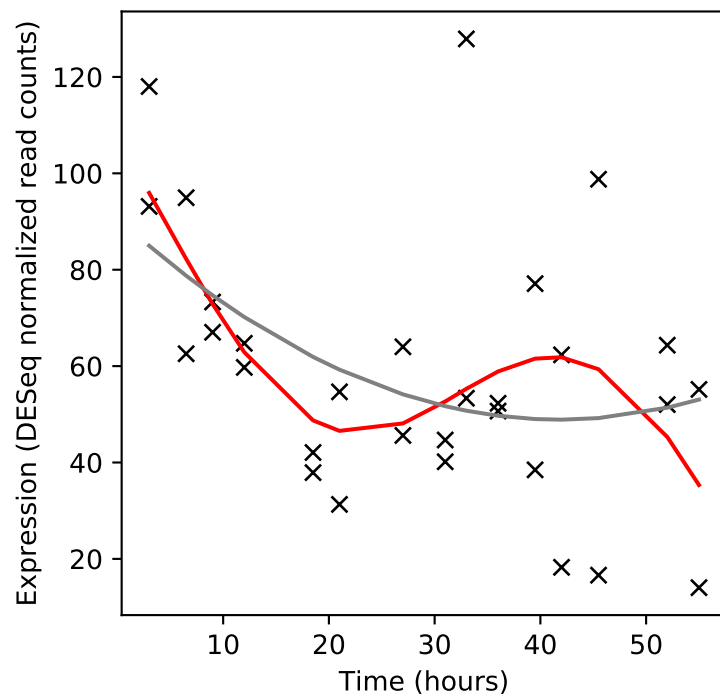
Rv0024/-



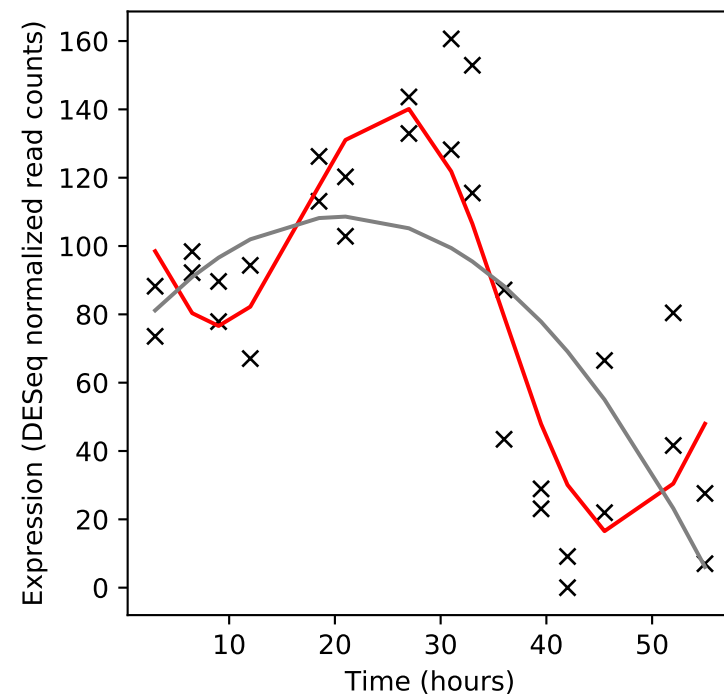
Rv0025/-



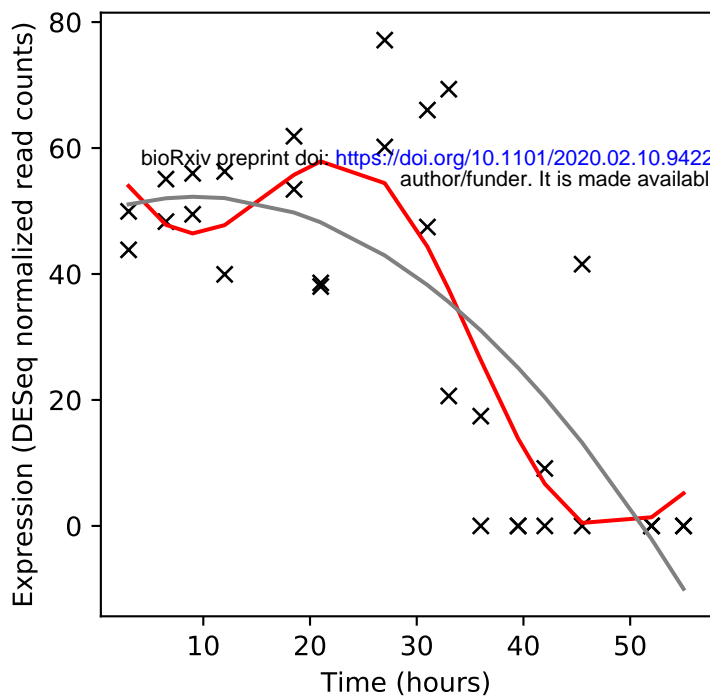
Rv0026/-



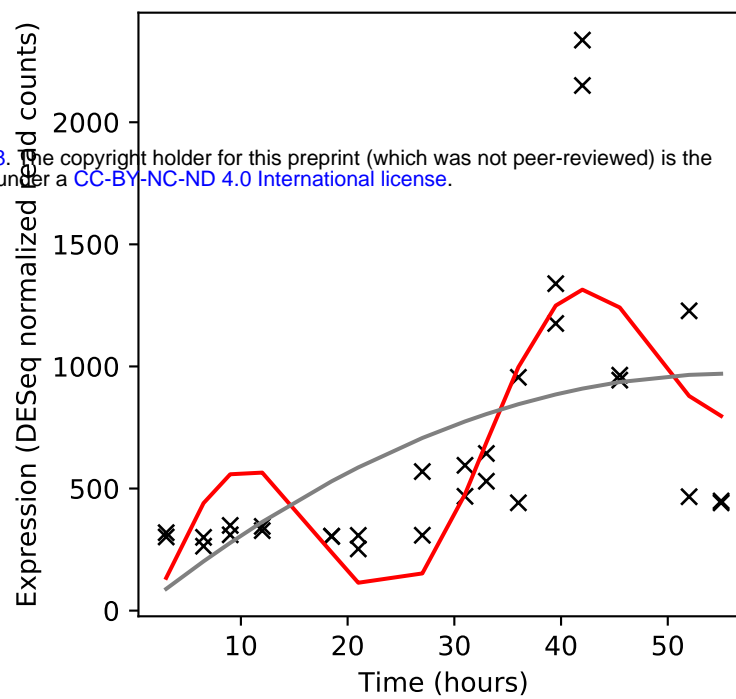
Rv0027/-



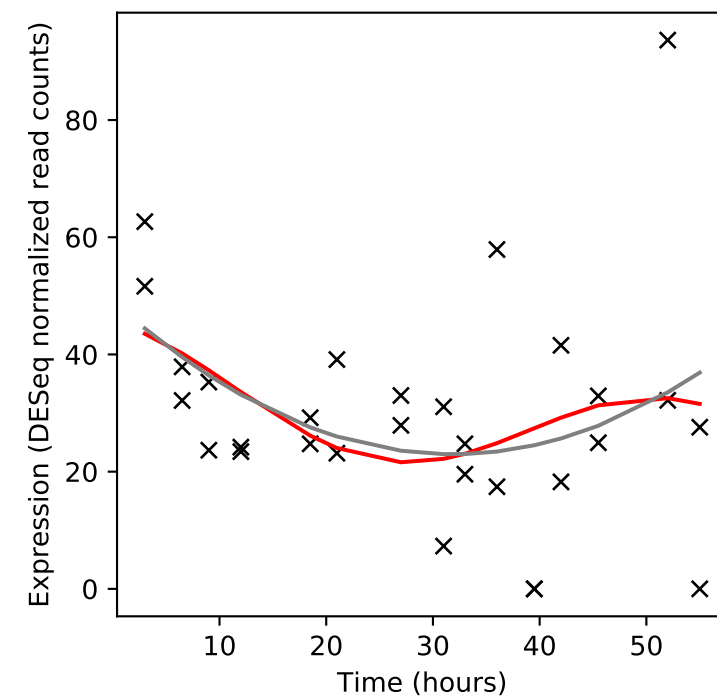
Rv0028/-



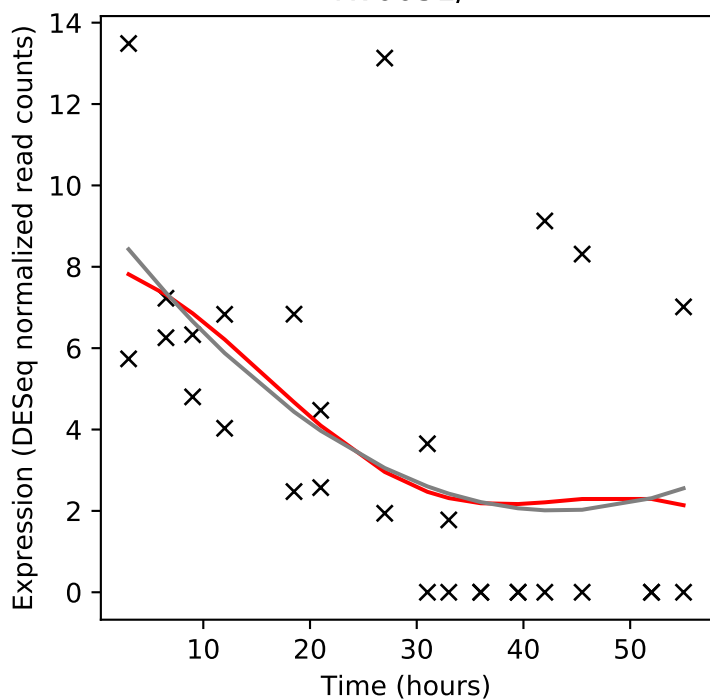
Rv0029/-



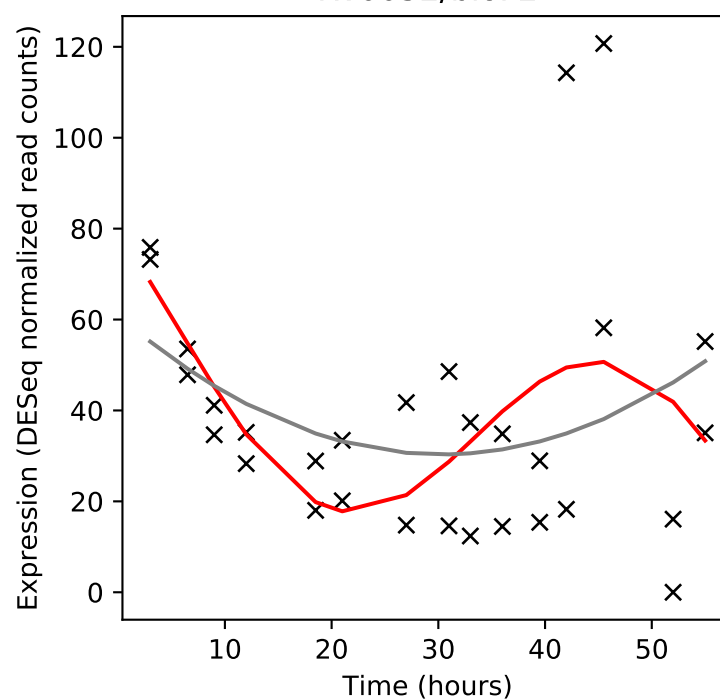
Rv0030/-



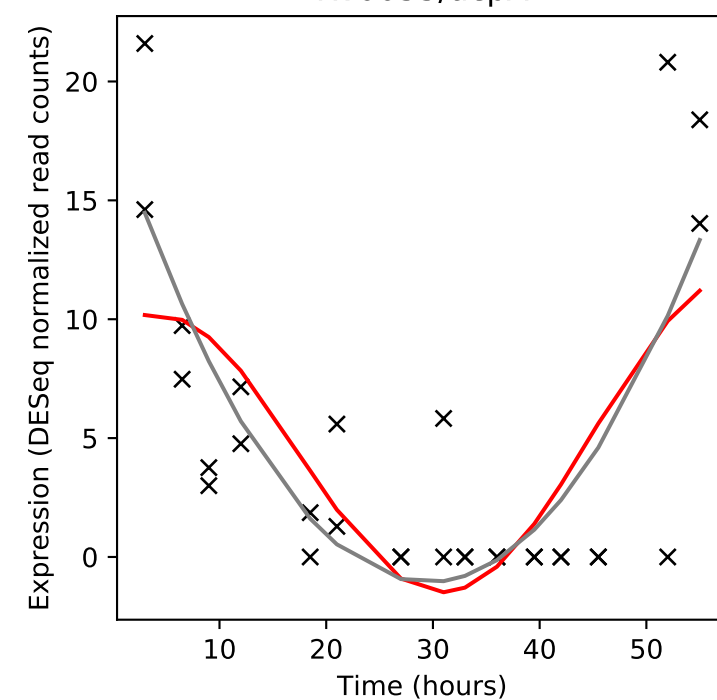
Rv0031/-



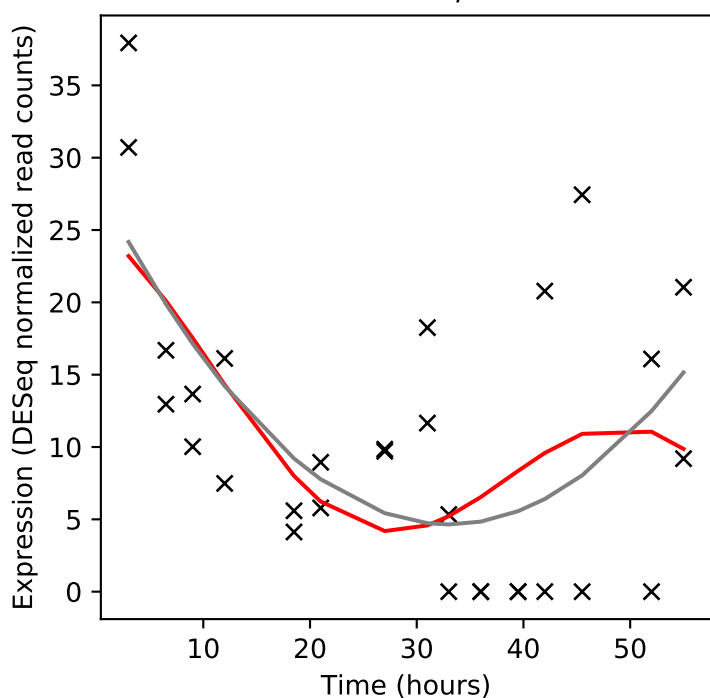
Rv0032/bioF2



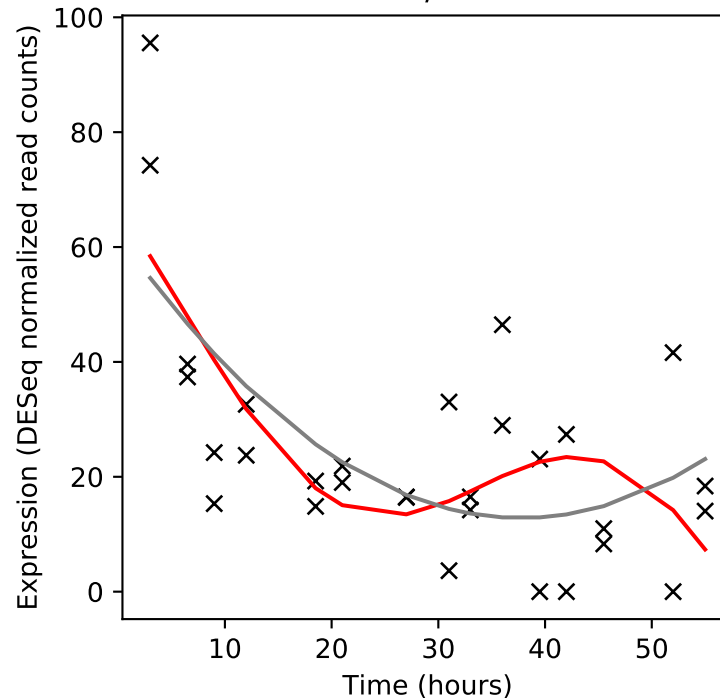
Rv0033/acpA



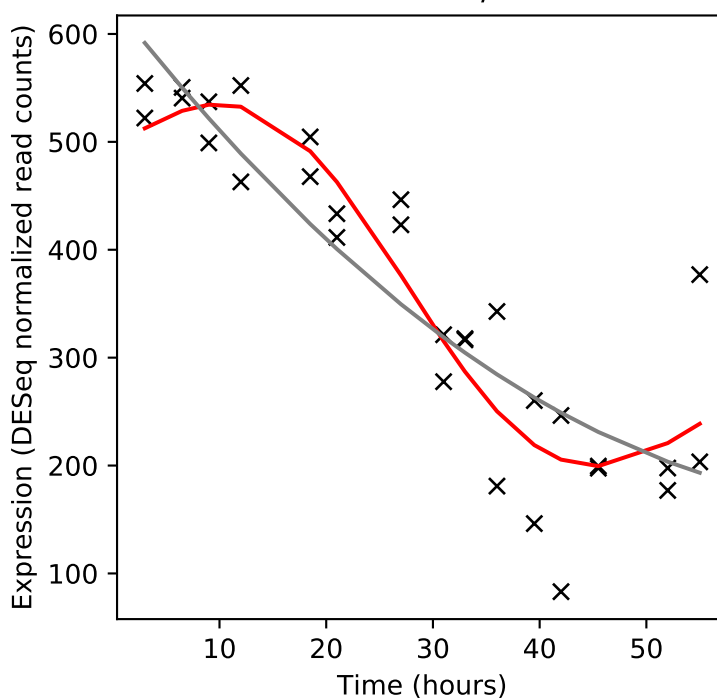
Rv0034/-



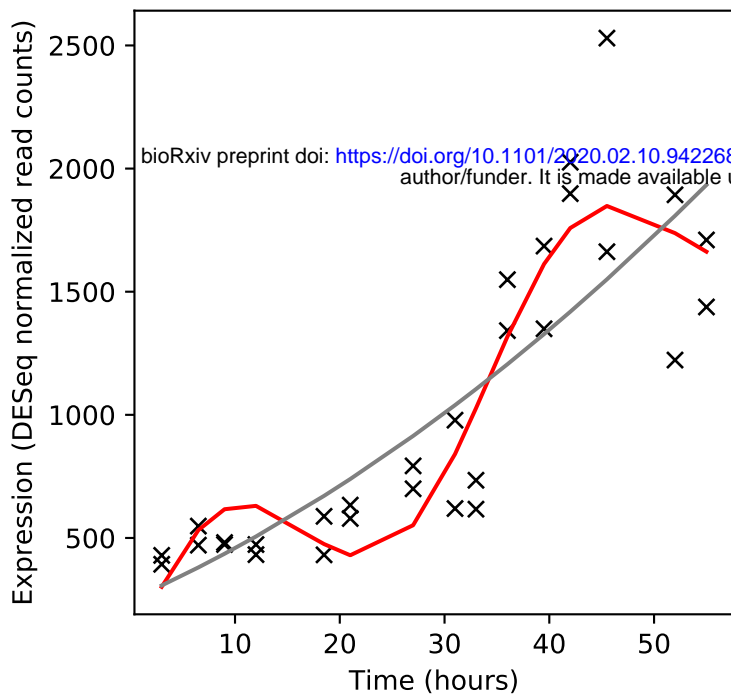
Rv0035/fadD34



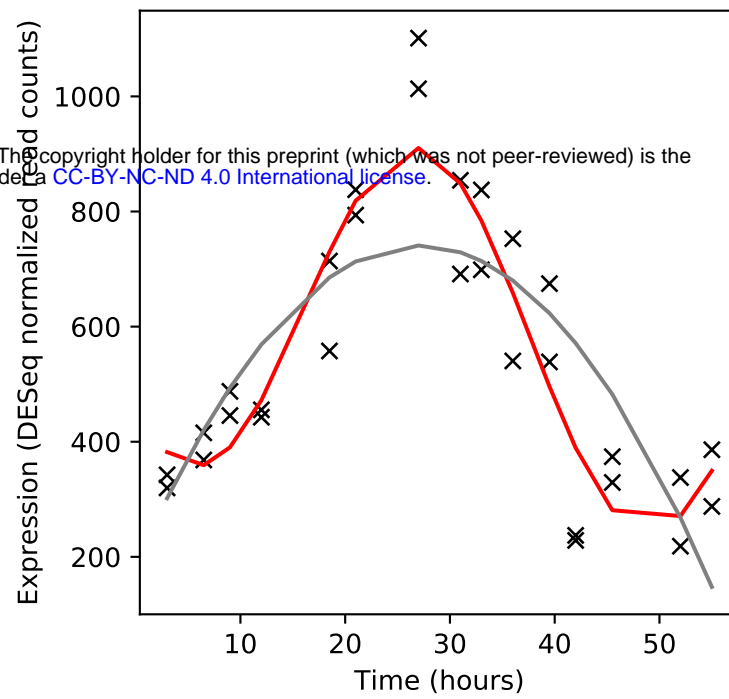
Rv0036c/-



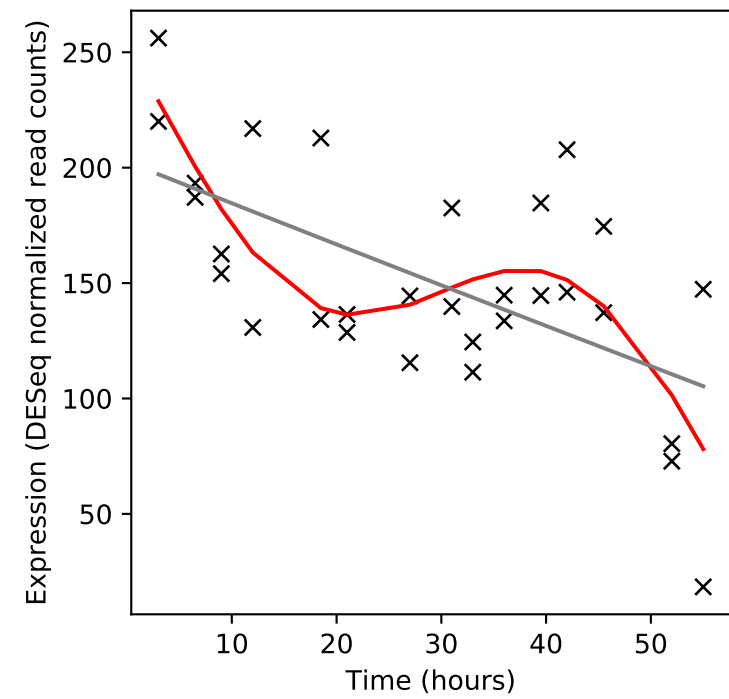
Rv0037c/-



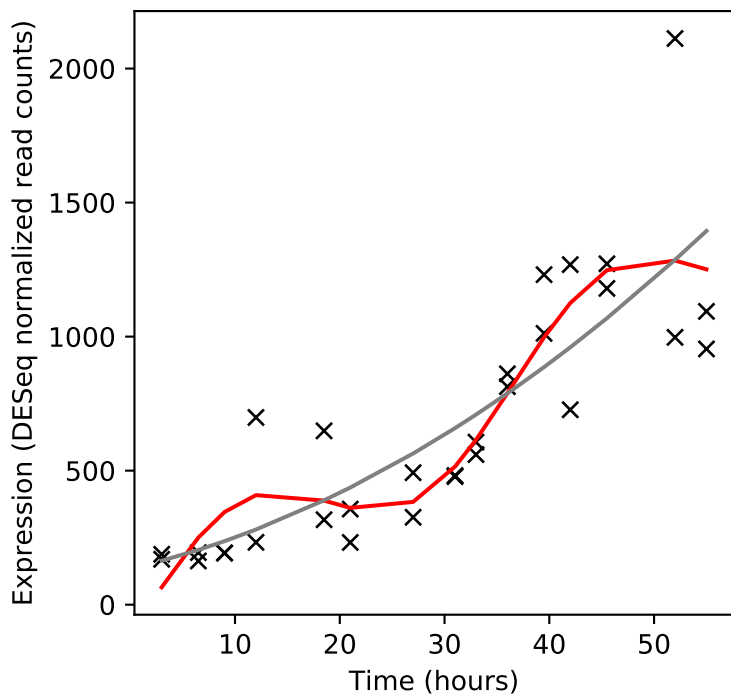
Rv0038/-



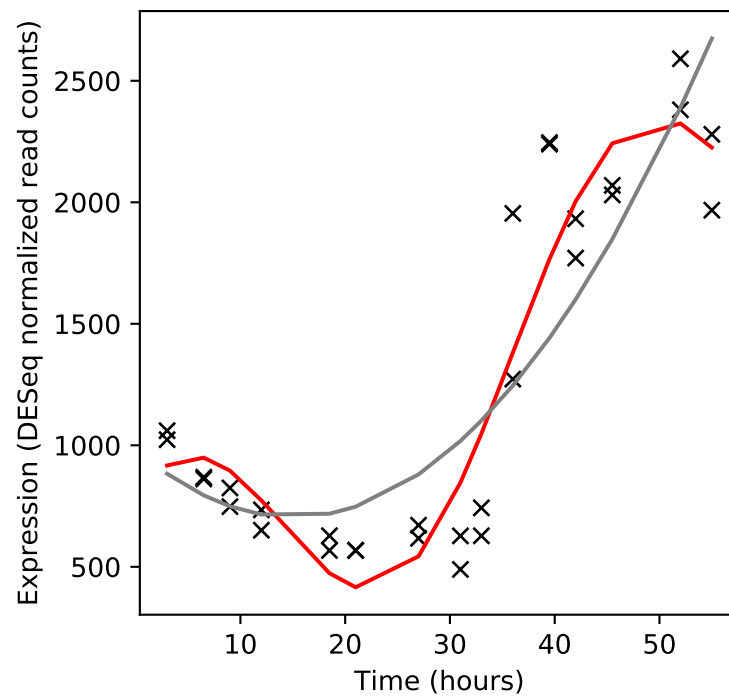
Rv0039c/-



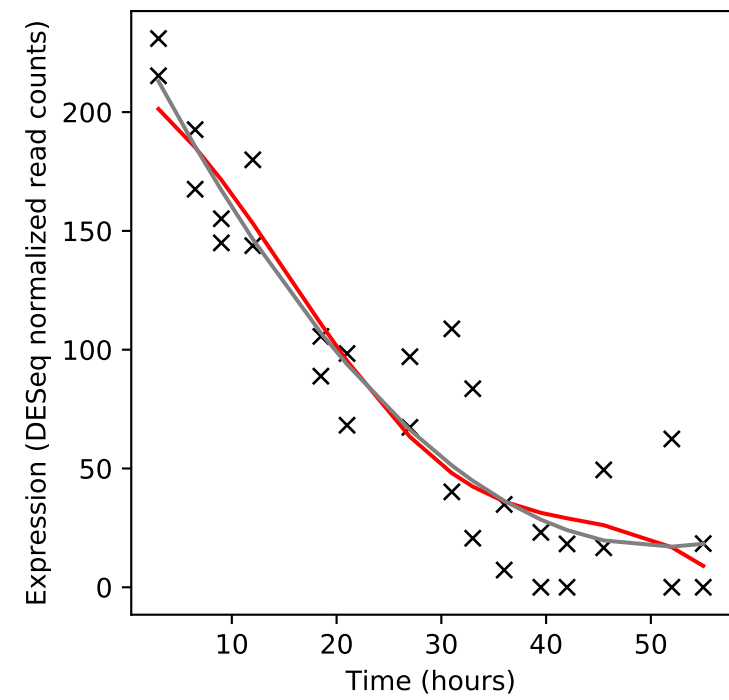
Rv0040c/mtc28



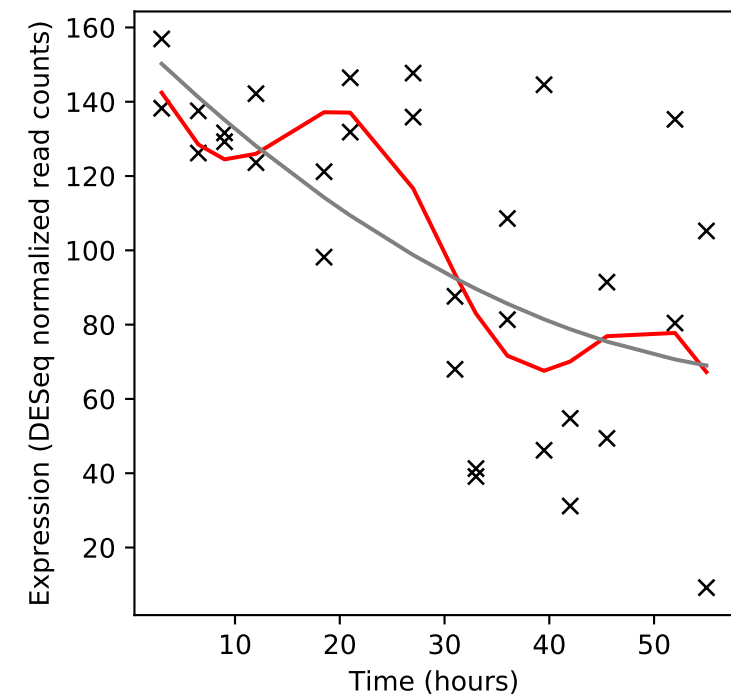
Rv0041/leuS



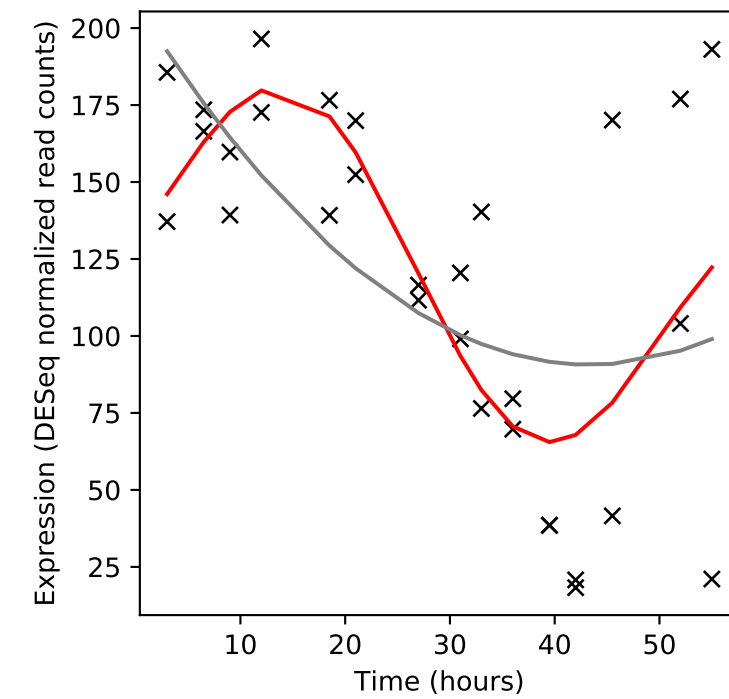
Rv0042c/-



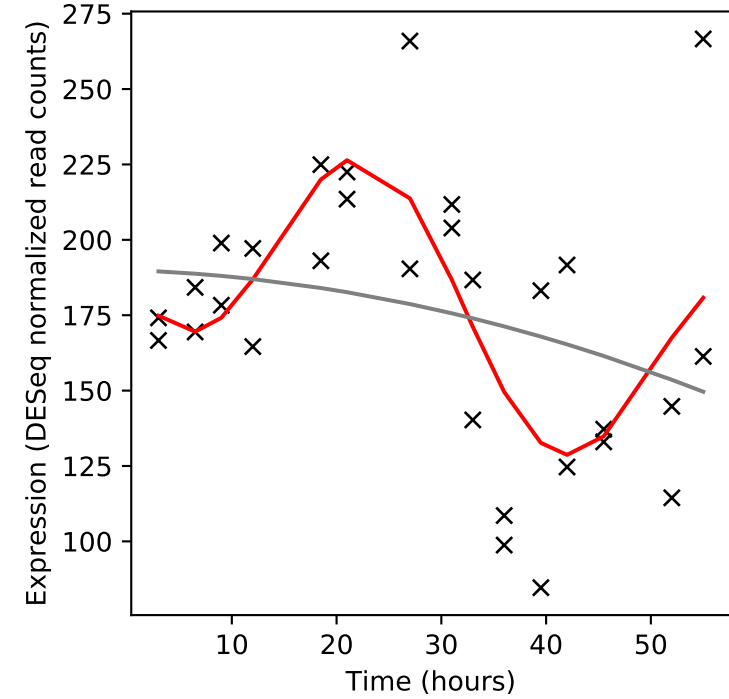
Rv0043c/-



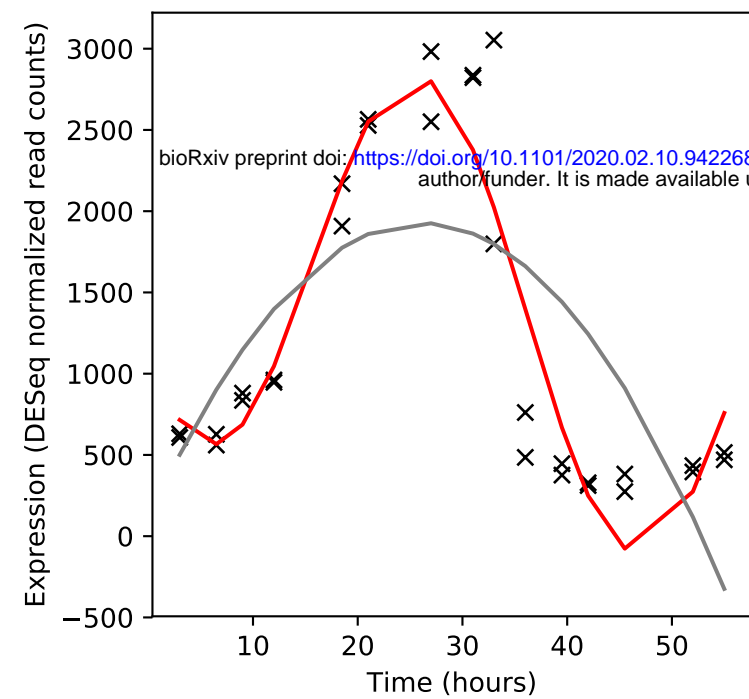
Rv0044c/-



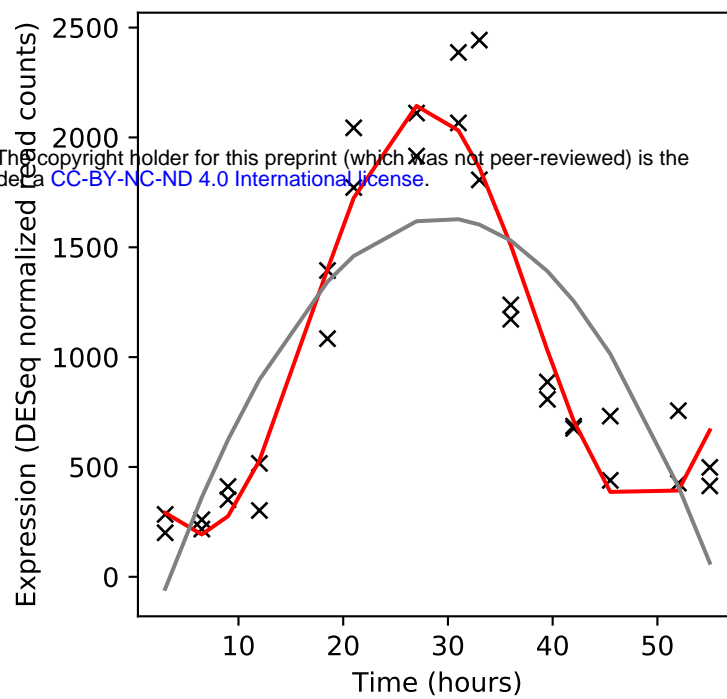
Rv0045c/-



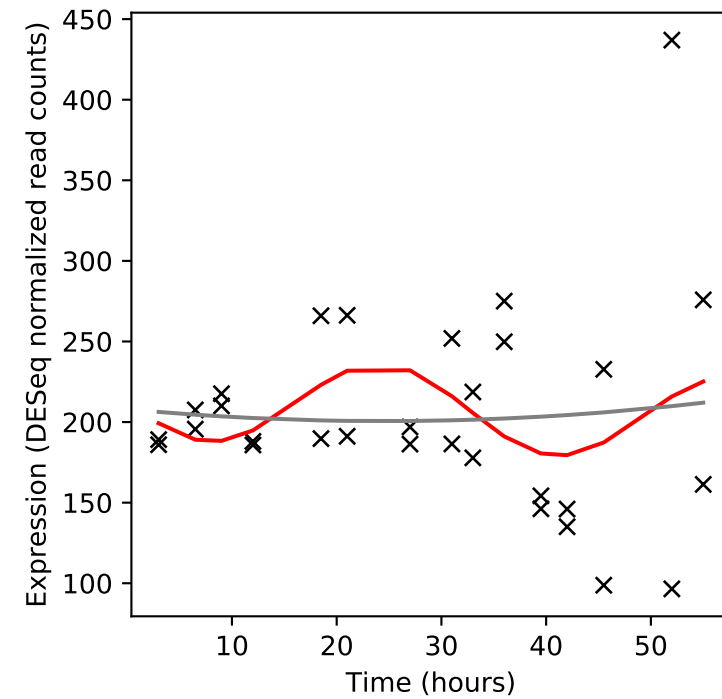
Rv0046c/ino1



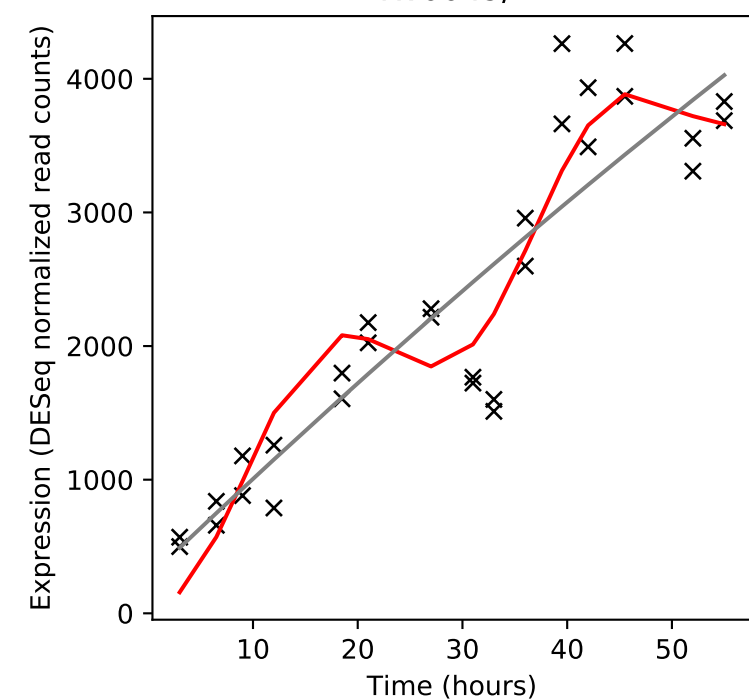
Rv0047c/-



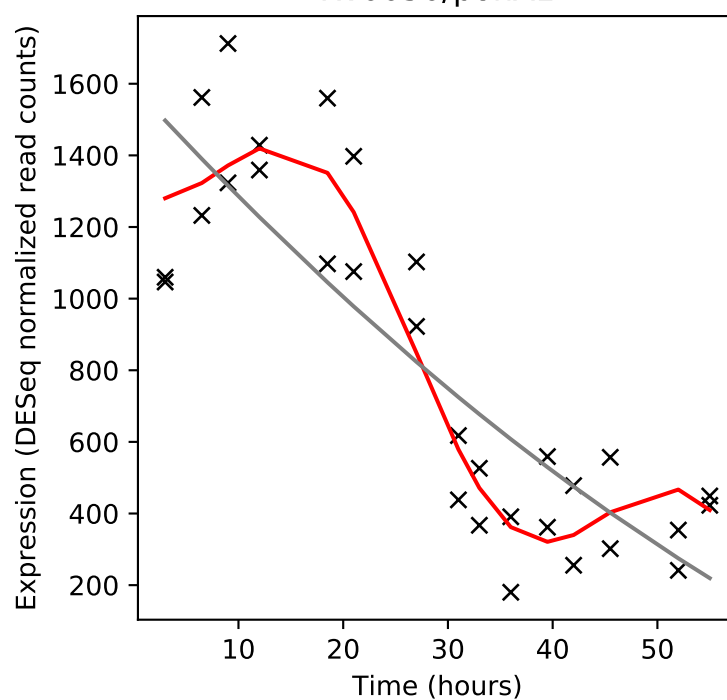
Rv0048c/-



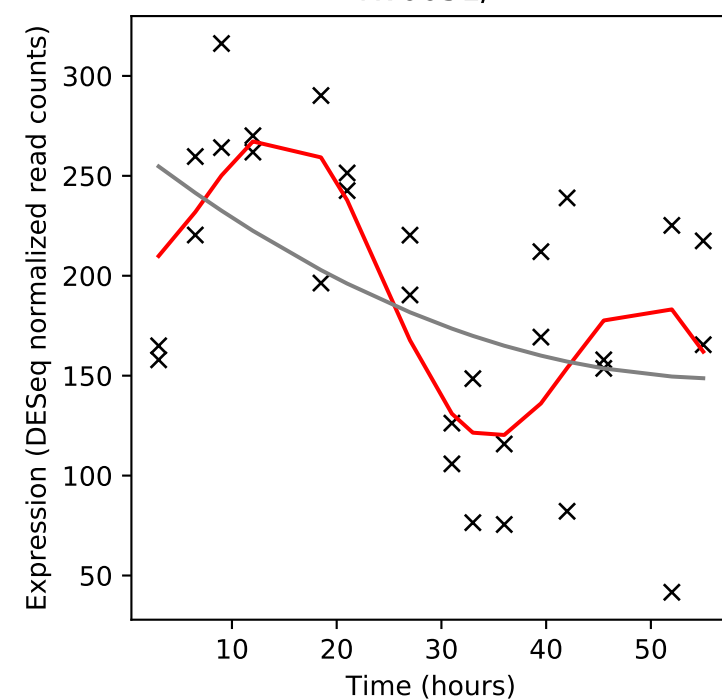
Rv0049/-



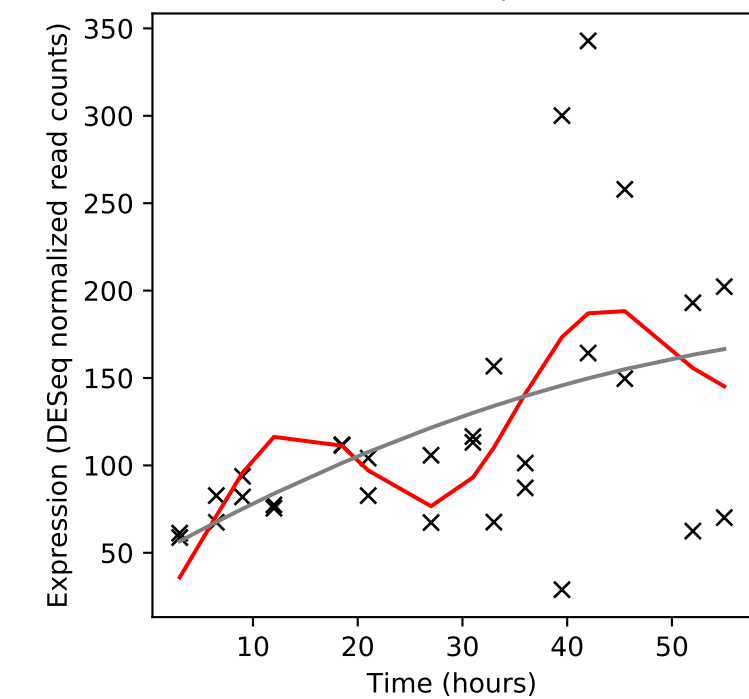
Rv0050/ponA1



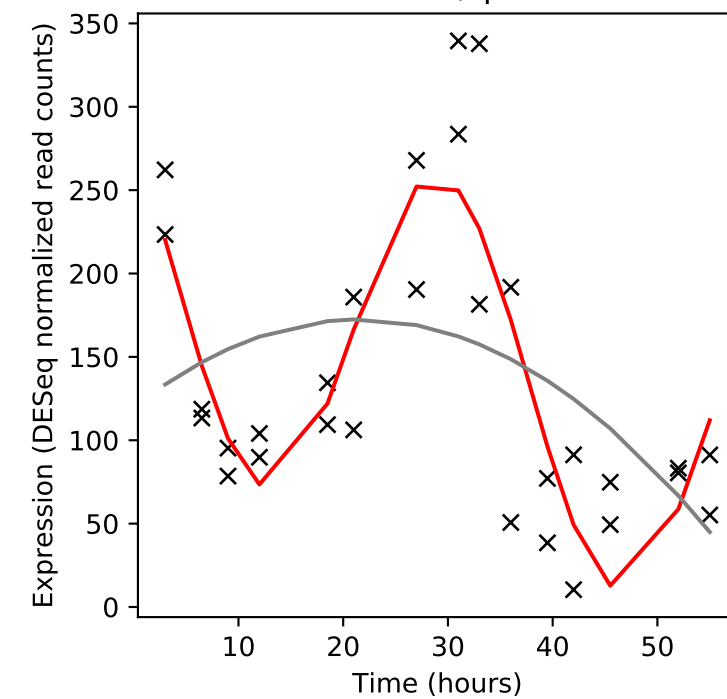
Rv0051/-



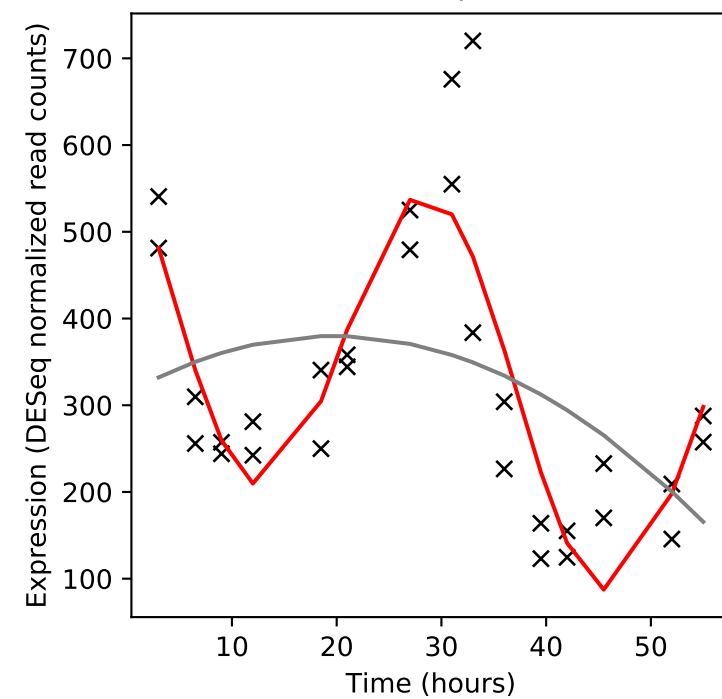
Rv0052/-



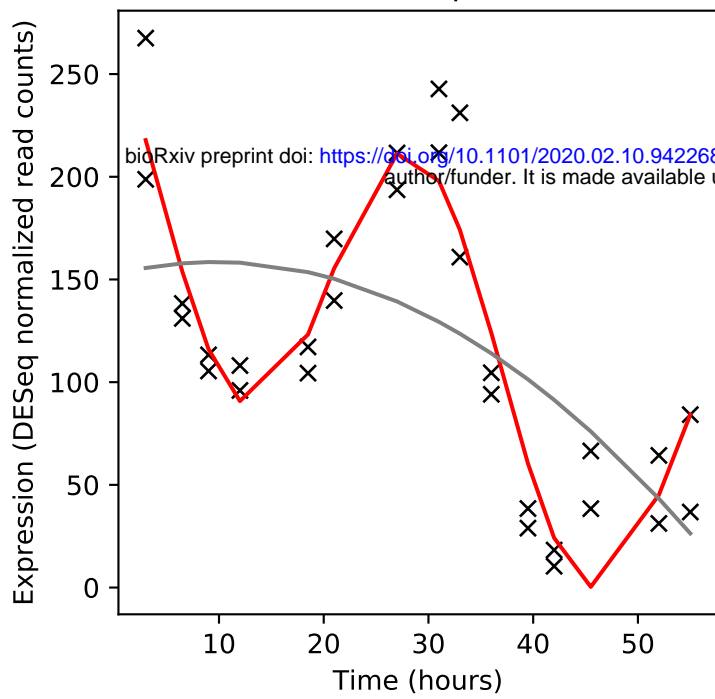
Rv0053/rpsF



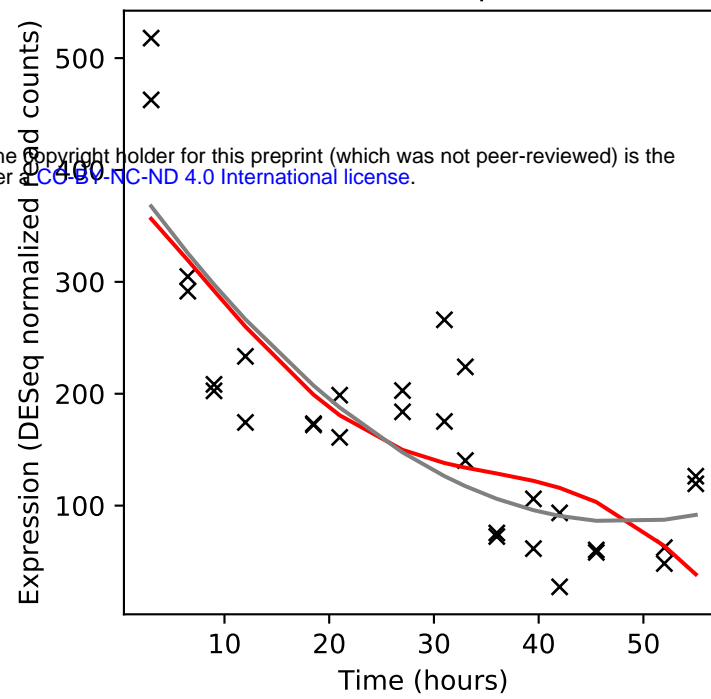
Rv0054/ssb



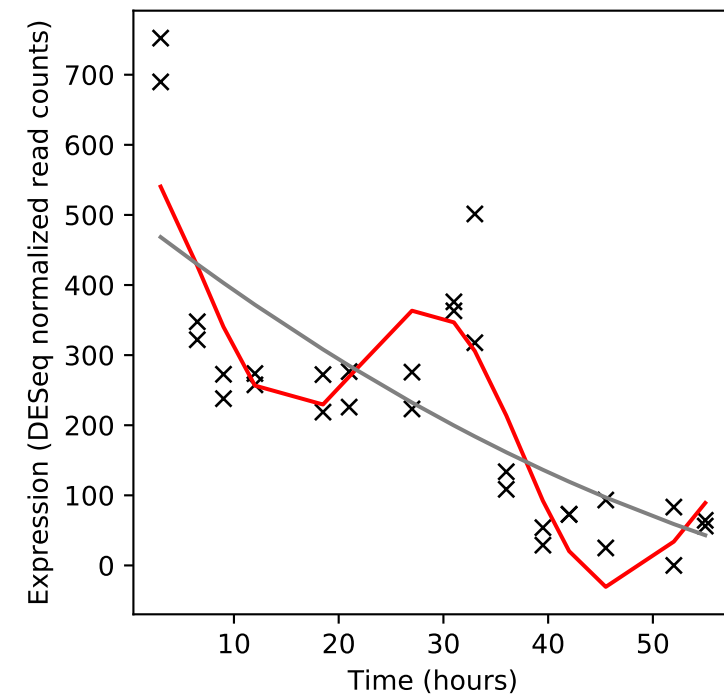
Rv0055/rpsR1



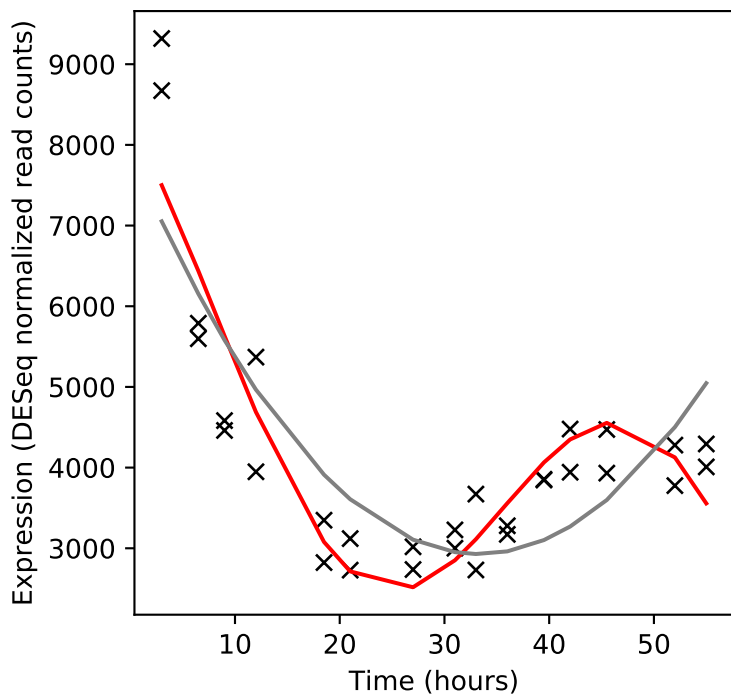
Rv0056/rplI



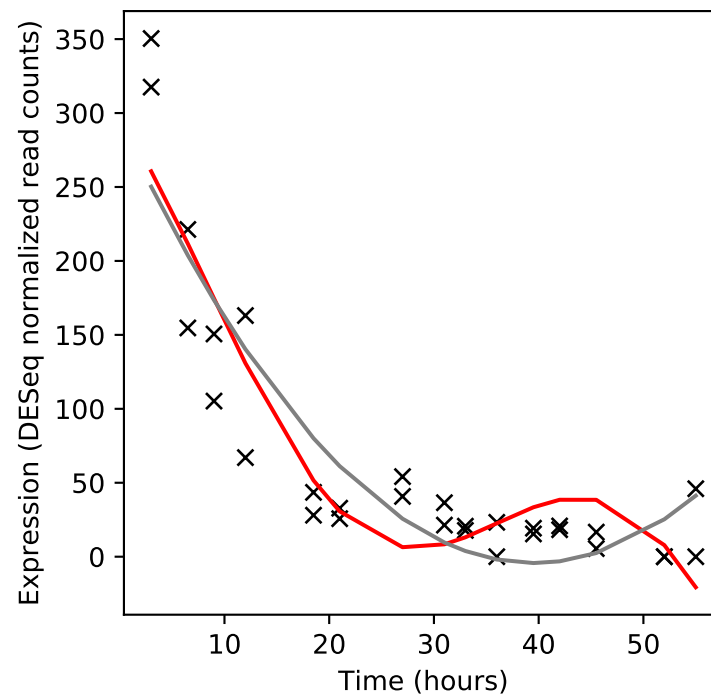
Rv0057/-



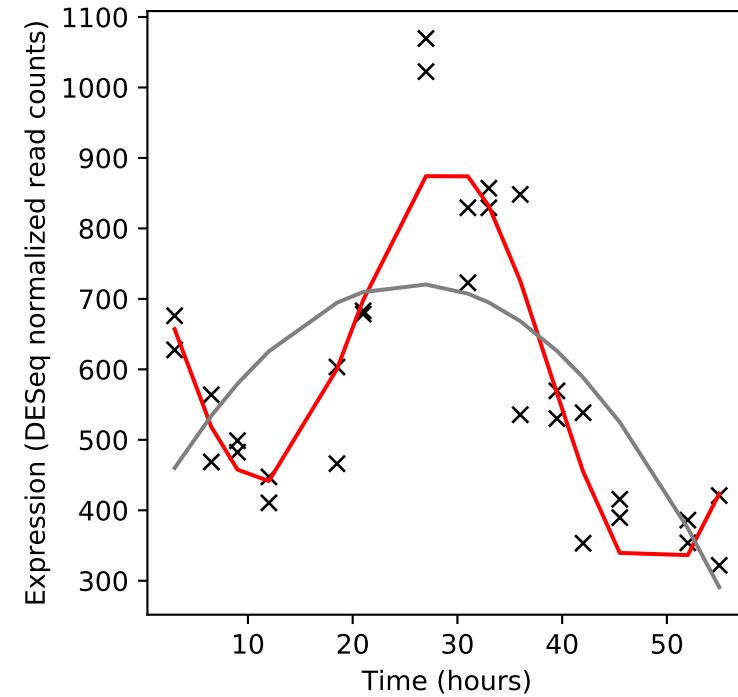
Rv0058/dnaB



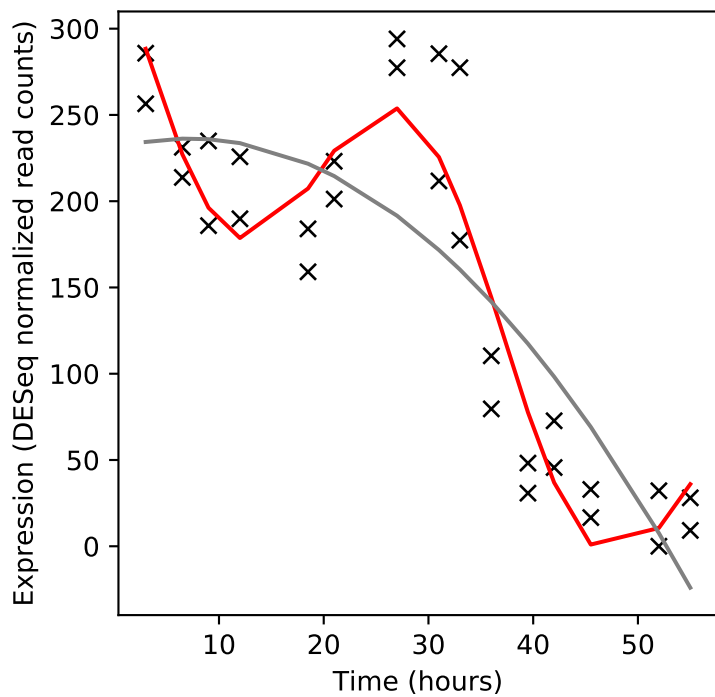
Rv0059/-



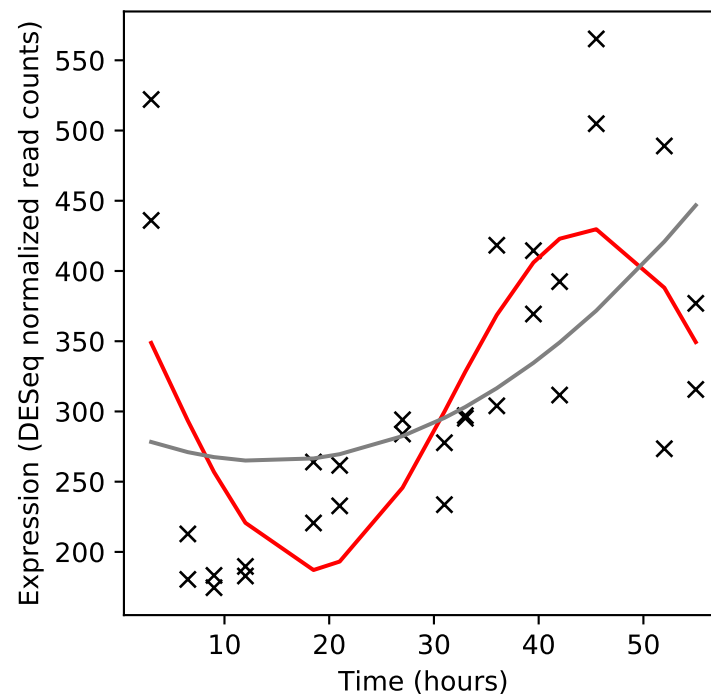
Rv0060/-



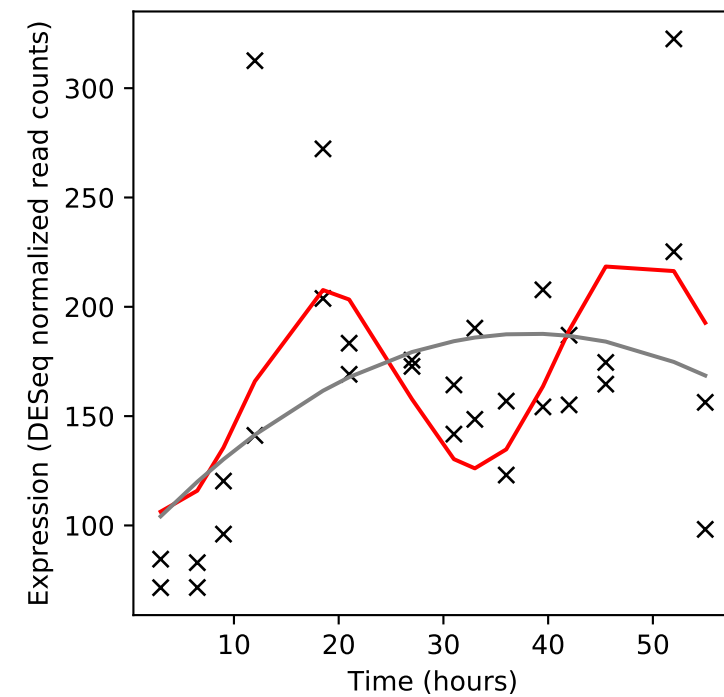
Rv0061c/-



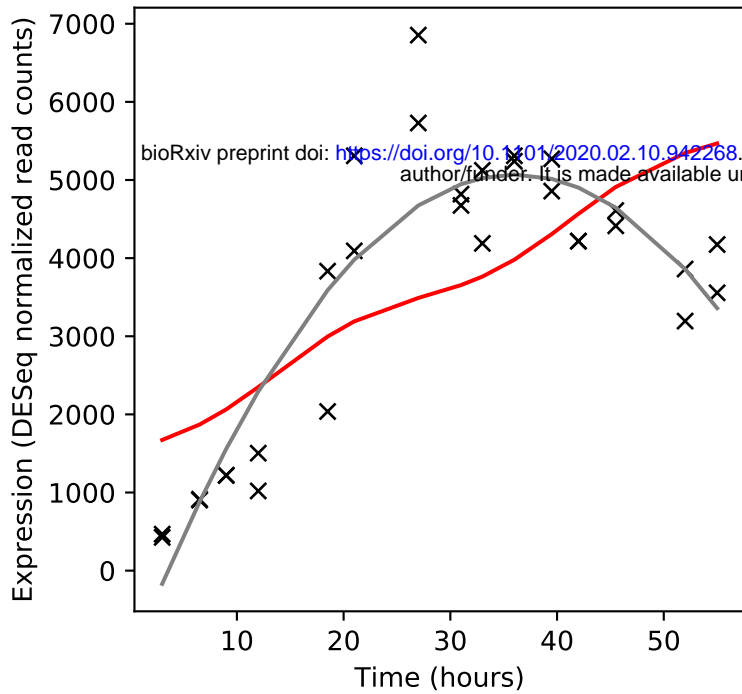
Rv0062/celA1



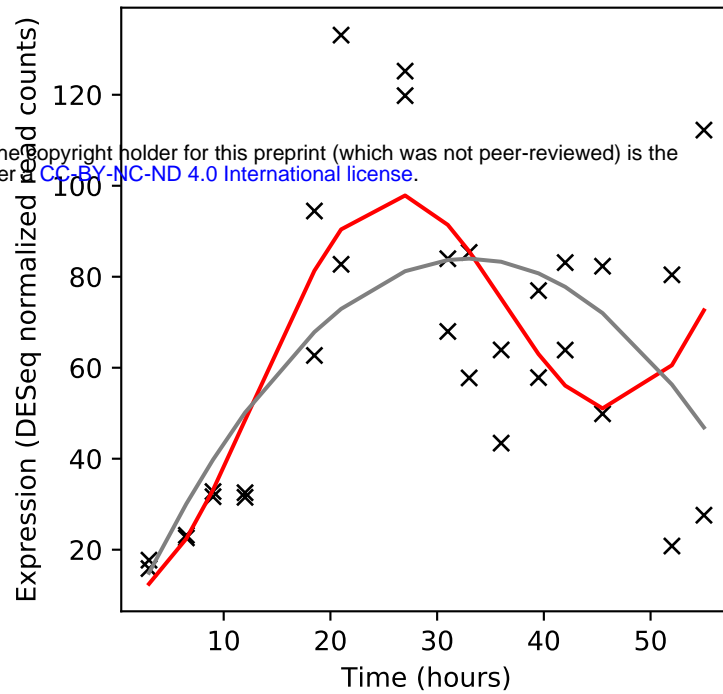
Rv0063/-



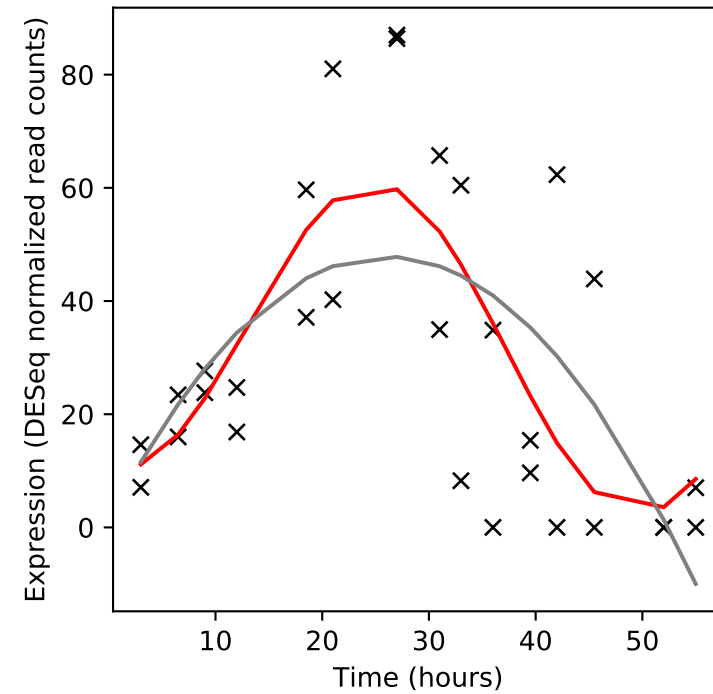
Rv0064/-



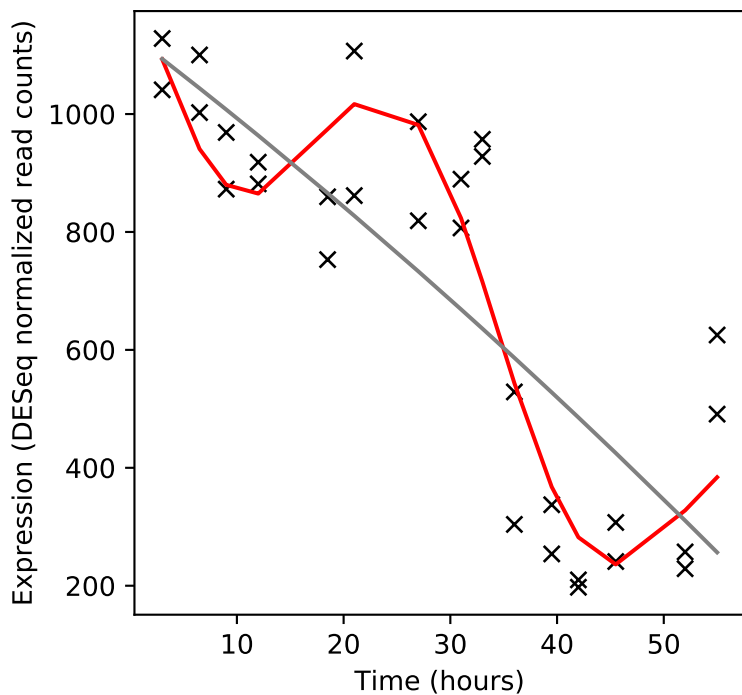
Rv0064A/vapB1



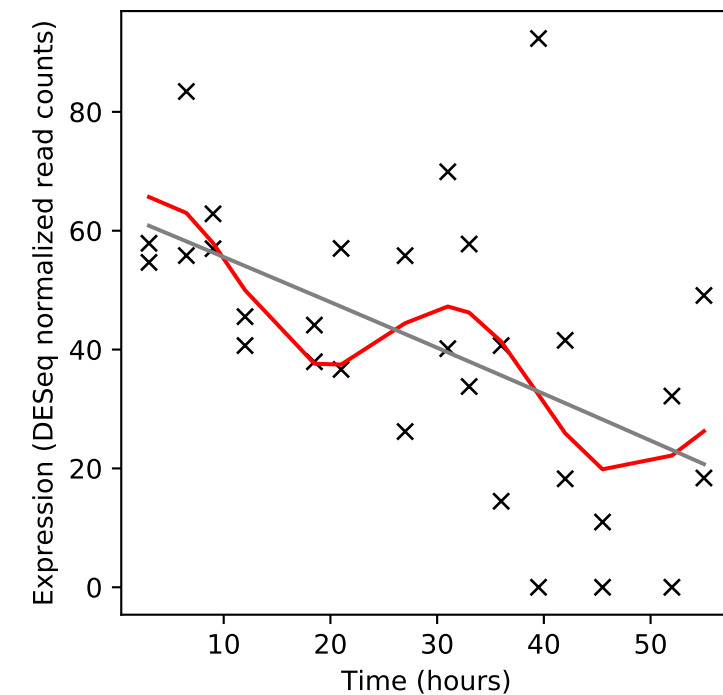
Rv0065/vapC1



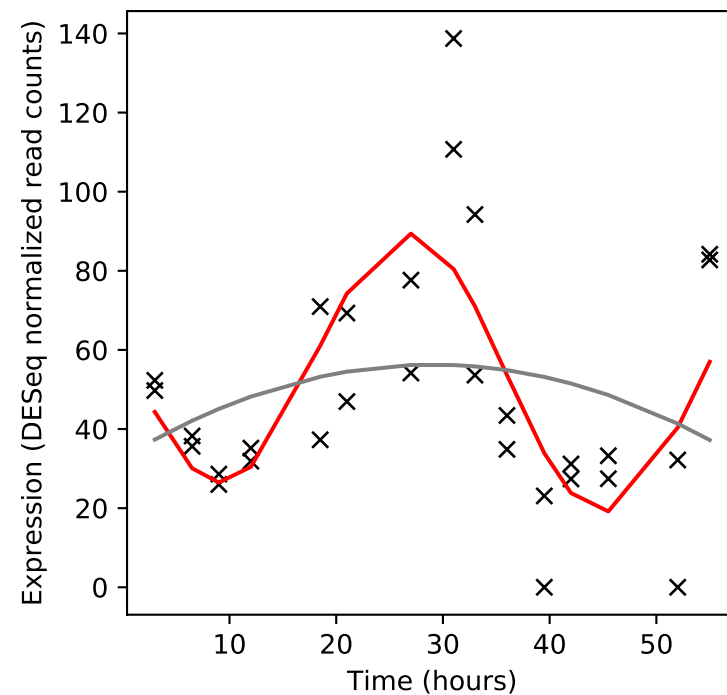
Rv0066c/icd2



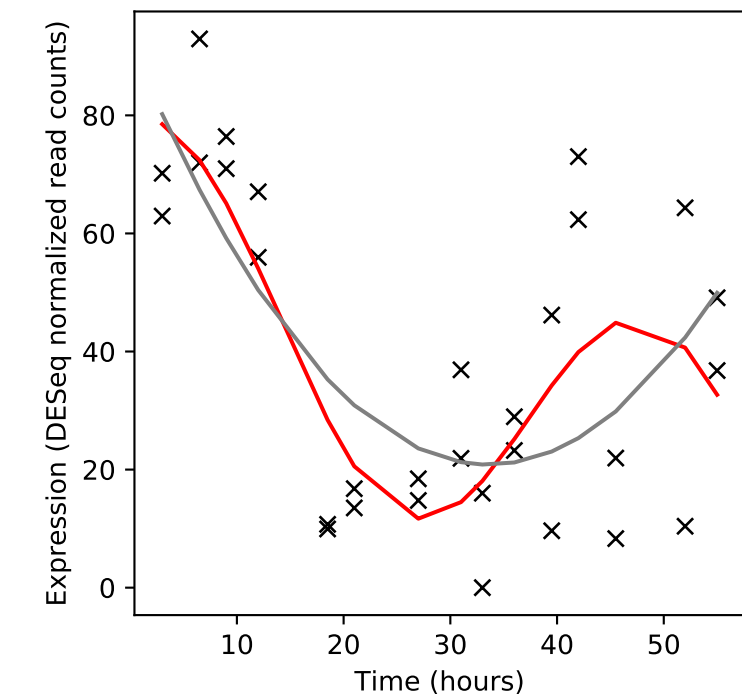
Rv0067c/-



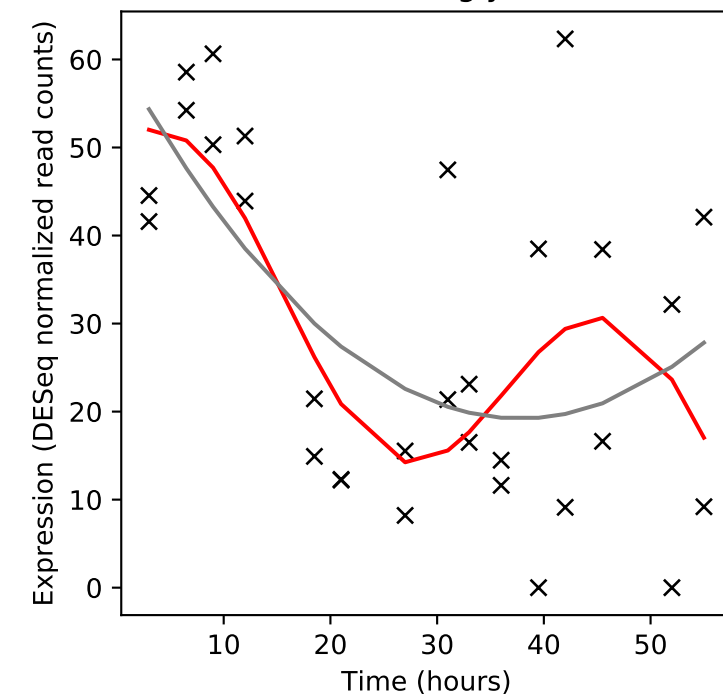
Rv0068/-



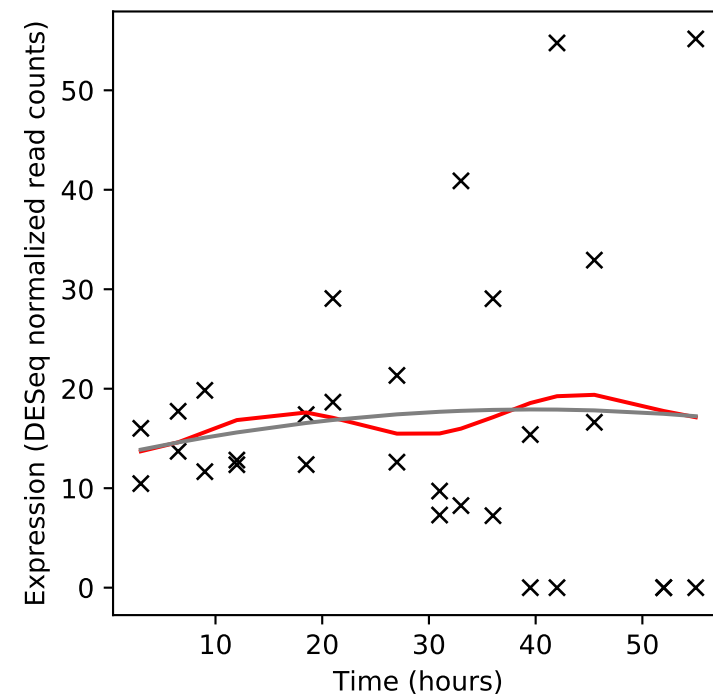
Rv0069c/sdaA



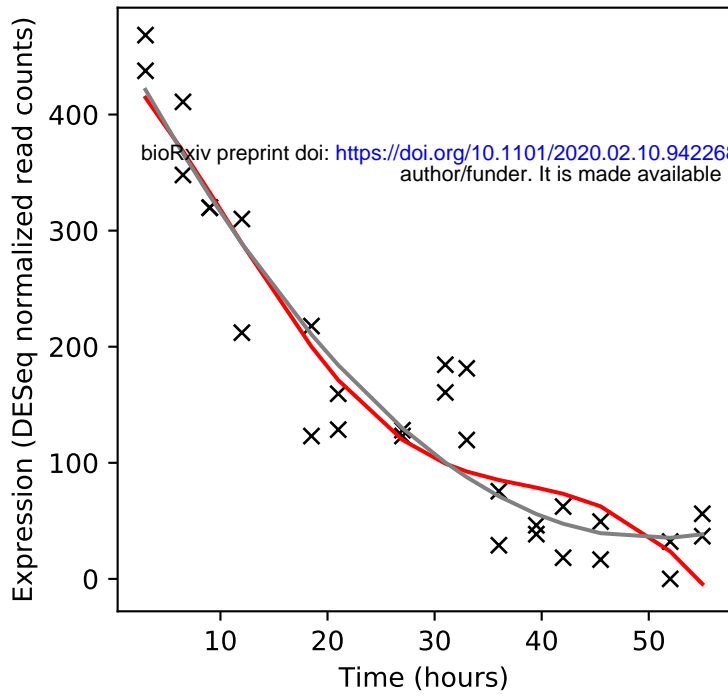
Rv0070c/glyA2



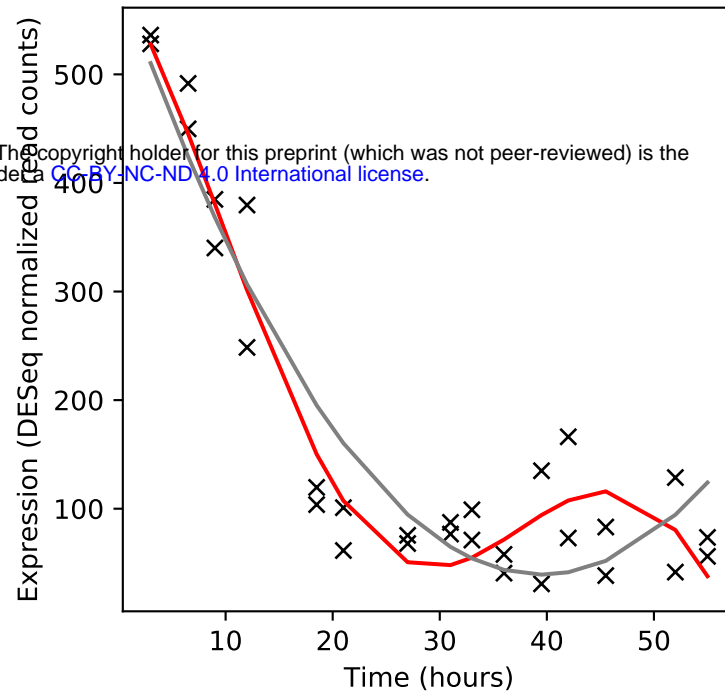
Rv0071/-



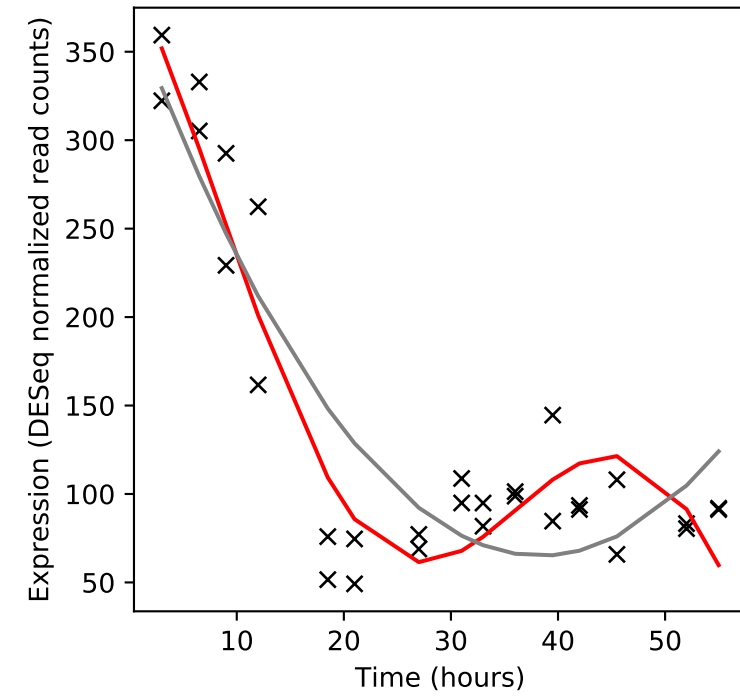
Rv0072/-



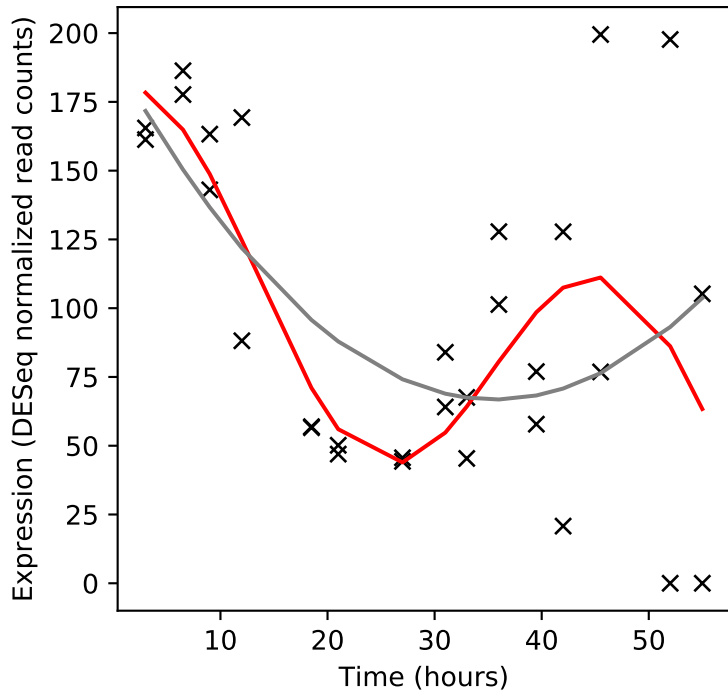
Rv0073/-



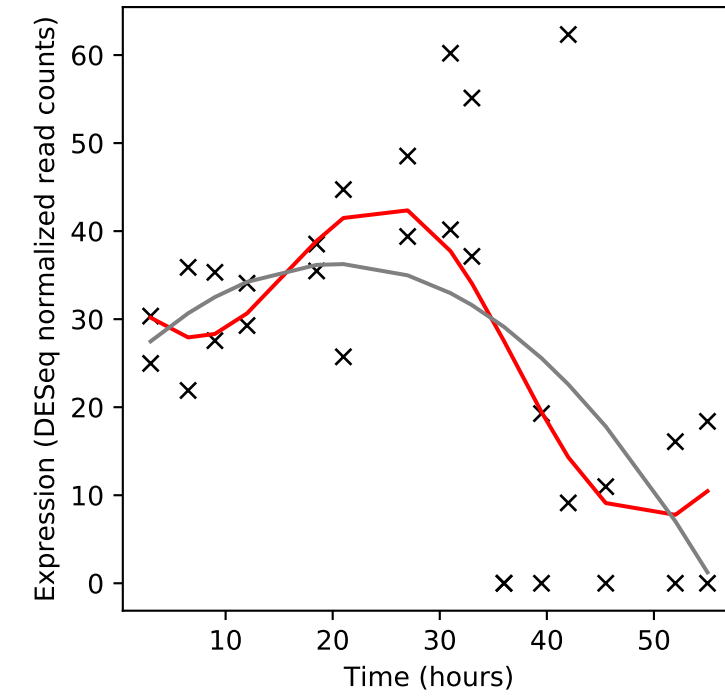
Rv0074/-



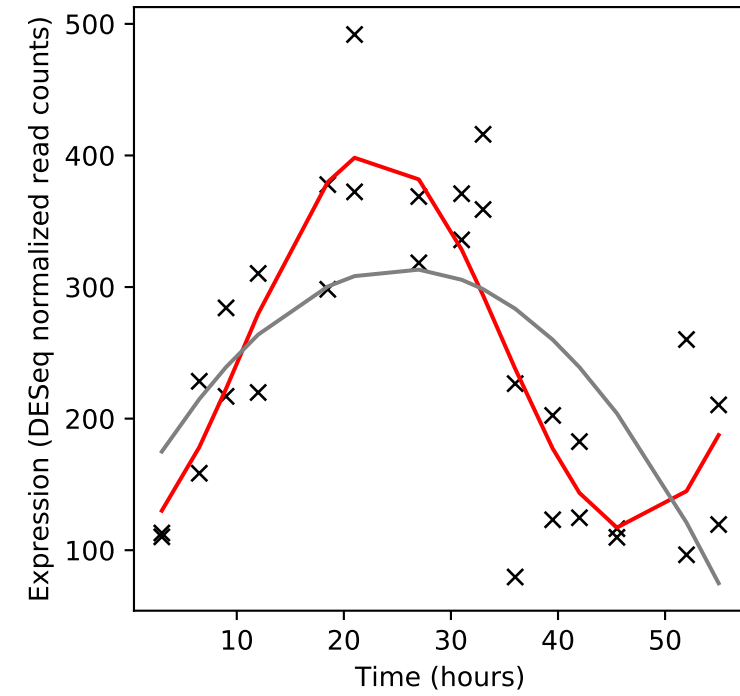
Rv0075/-



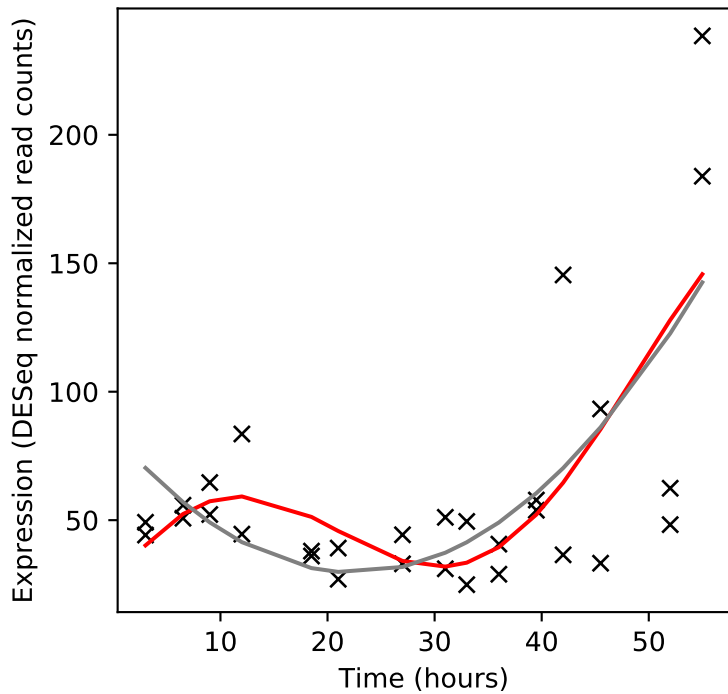
Rv0076c/-



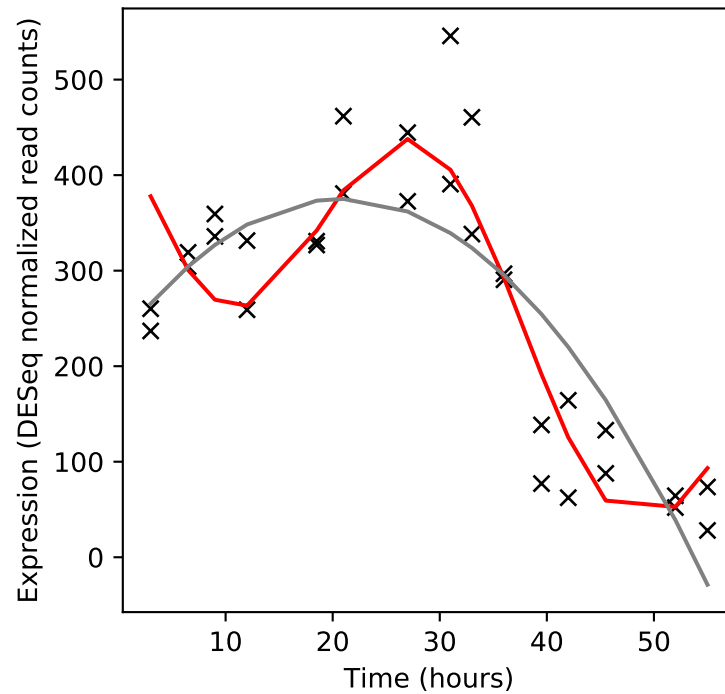
Rv0077c/-



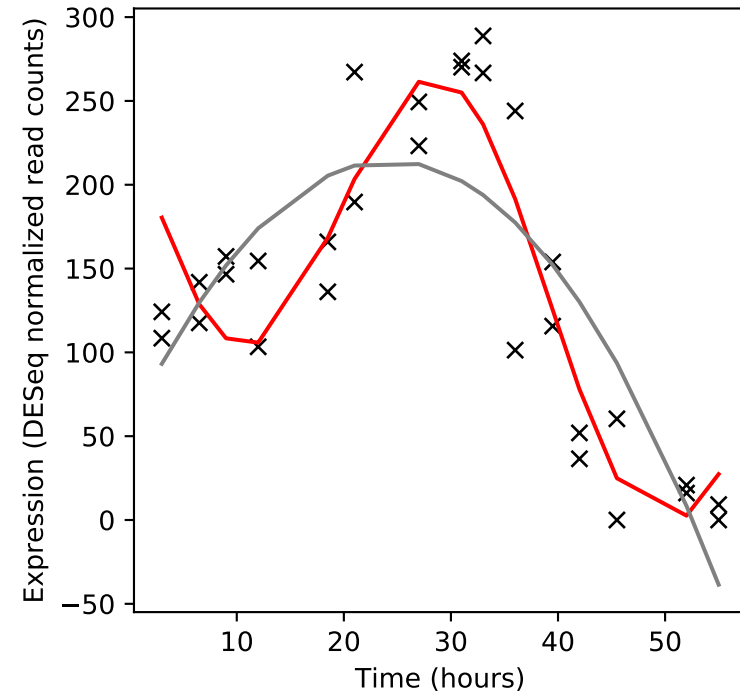
Rv0078/-



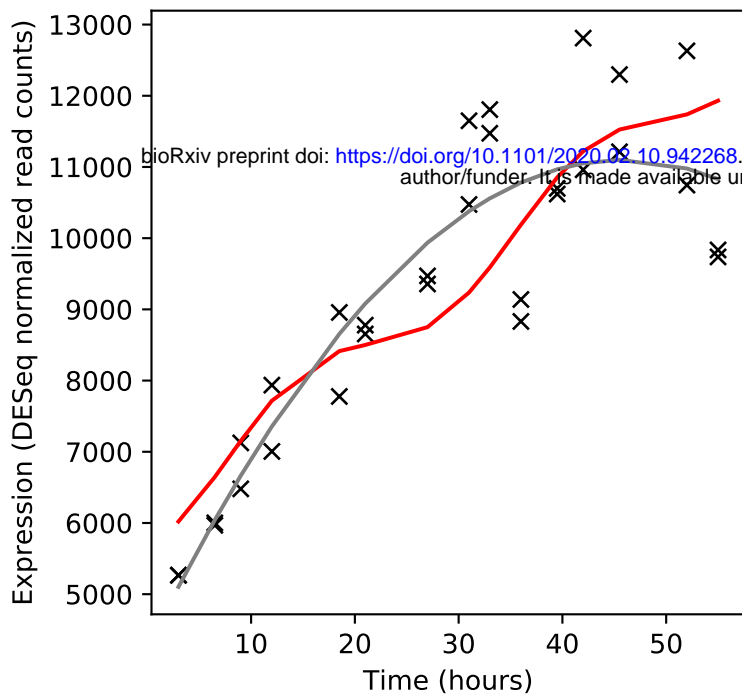
Rv0078A/-



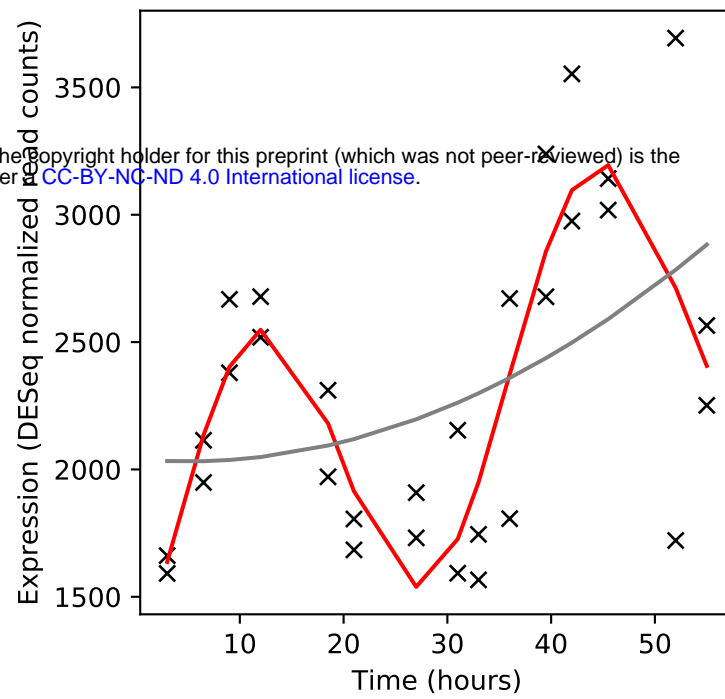
Rv0078B/-



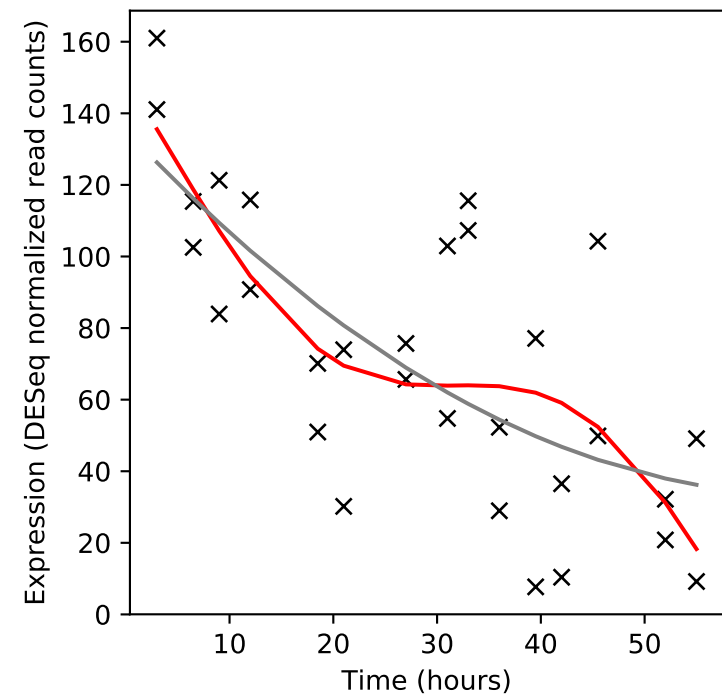
Rv0079/-



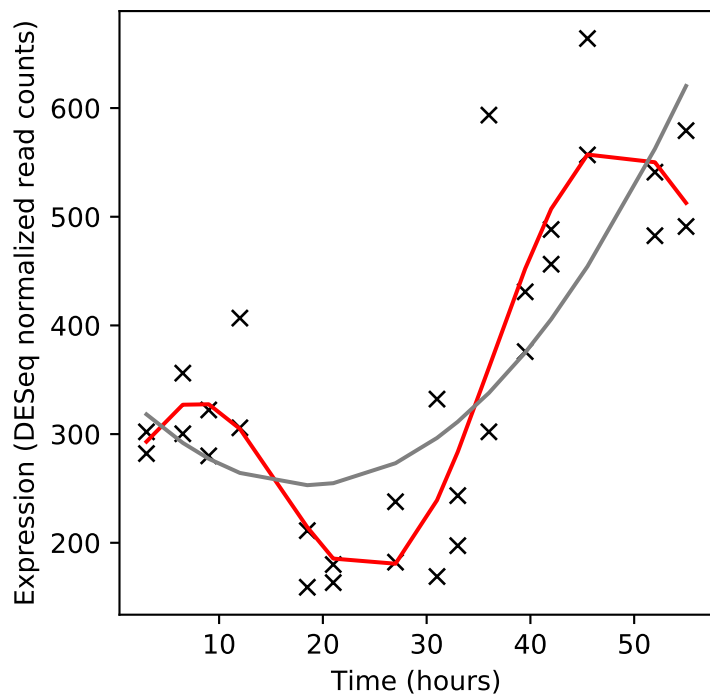
Rv0080/-



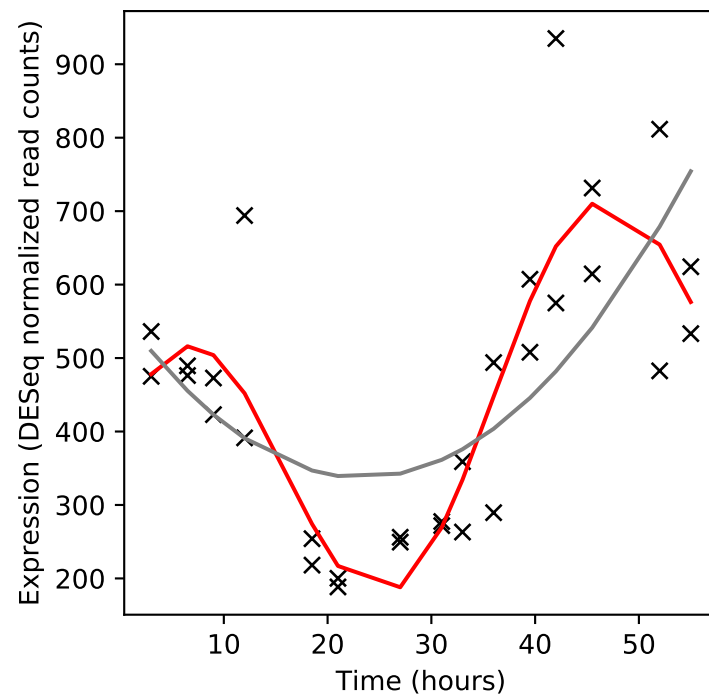
Rv0081/-



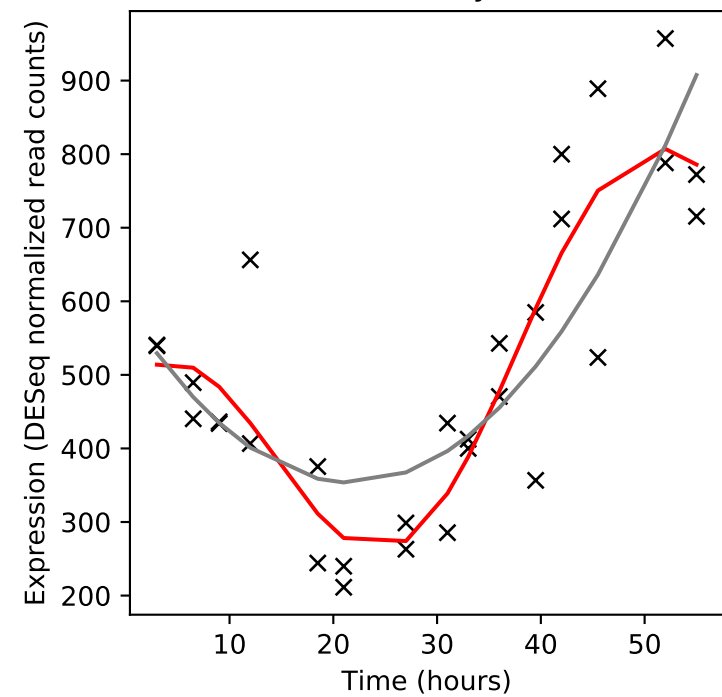
Rv0082/-



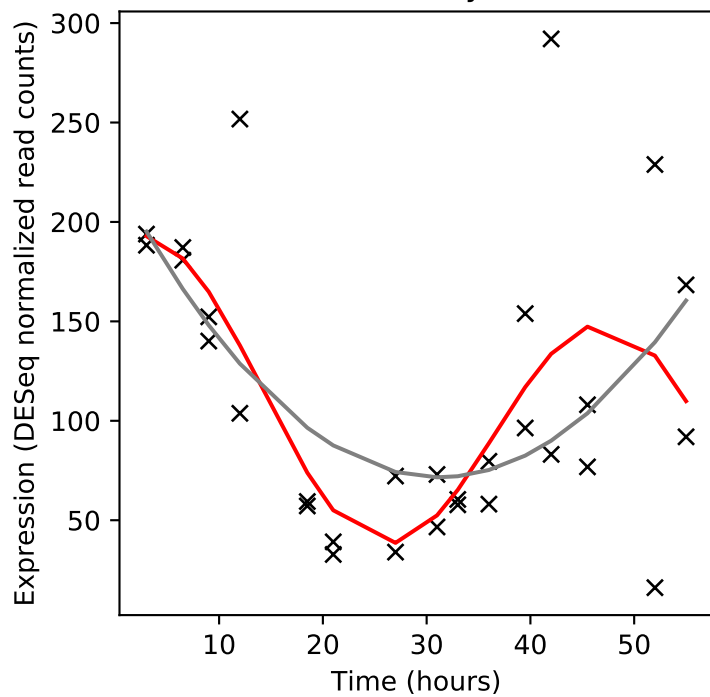
Rv0083/-



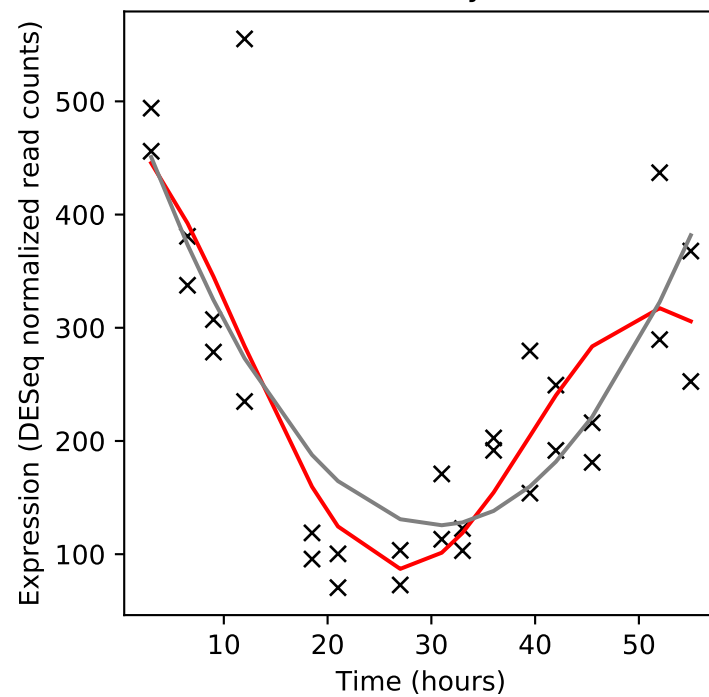
Rv0084/hycD



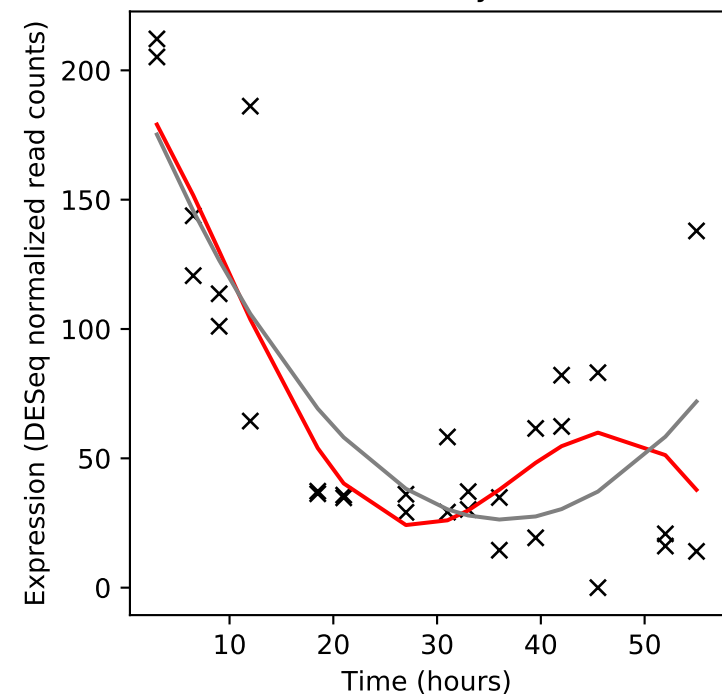
Rv0085/hycP



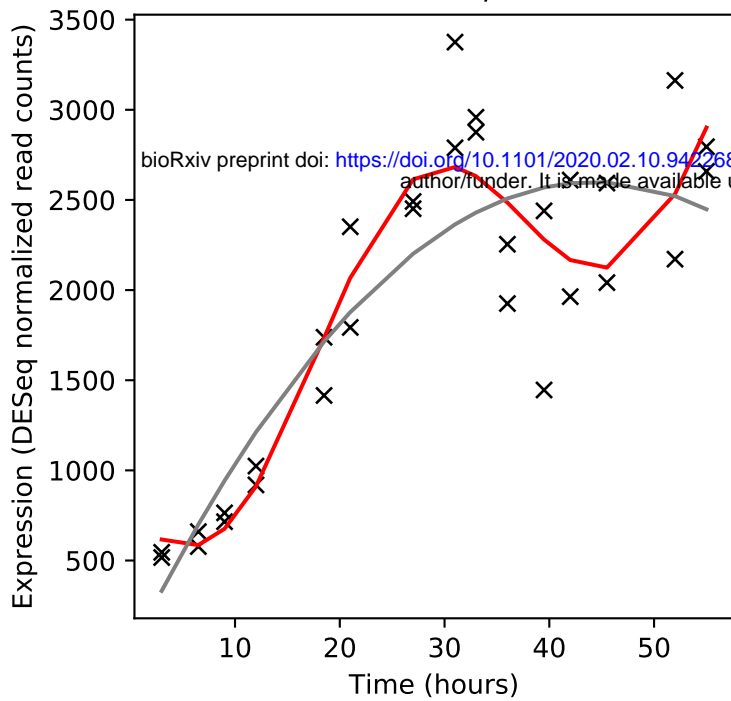
Rv0086/hycQ



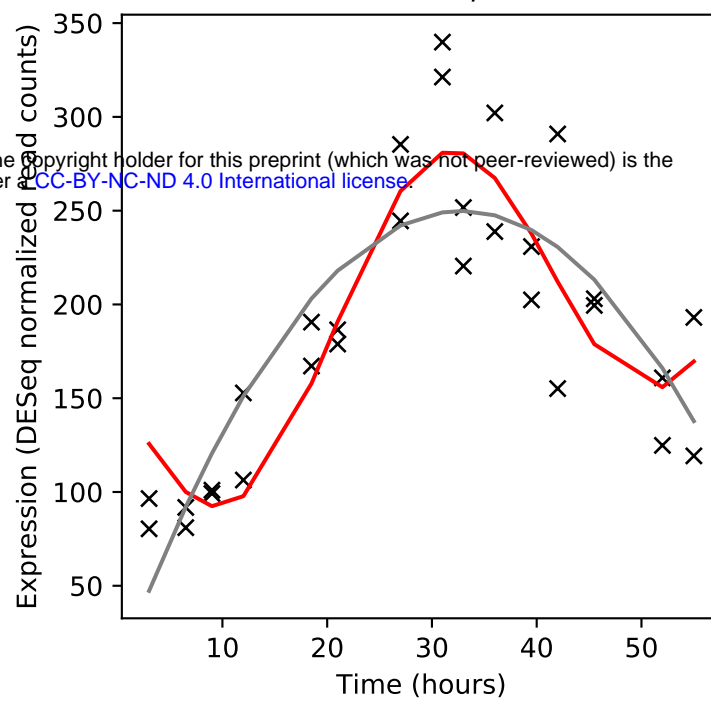
Rv0087/hycE



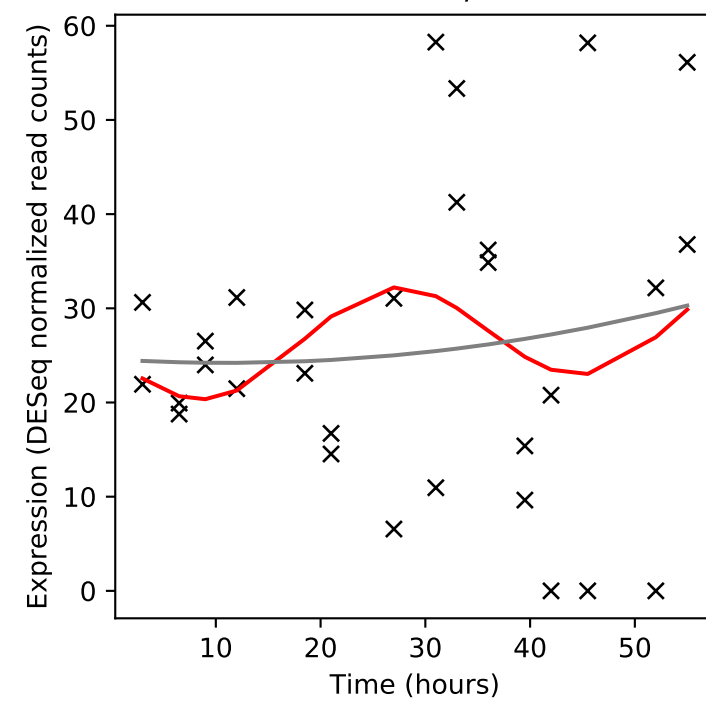
Rv0088/-



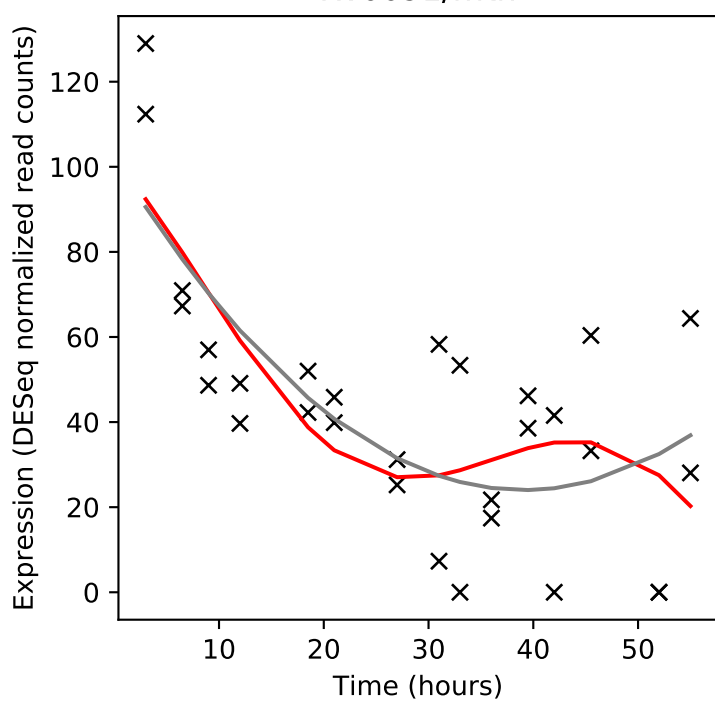
Rv0089/-



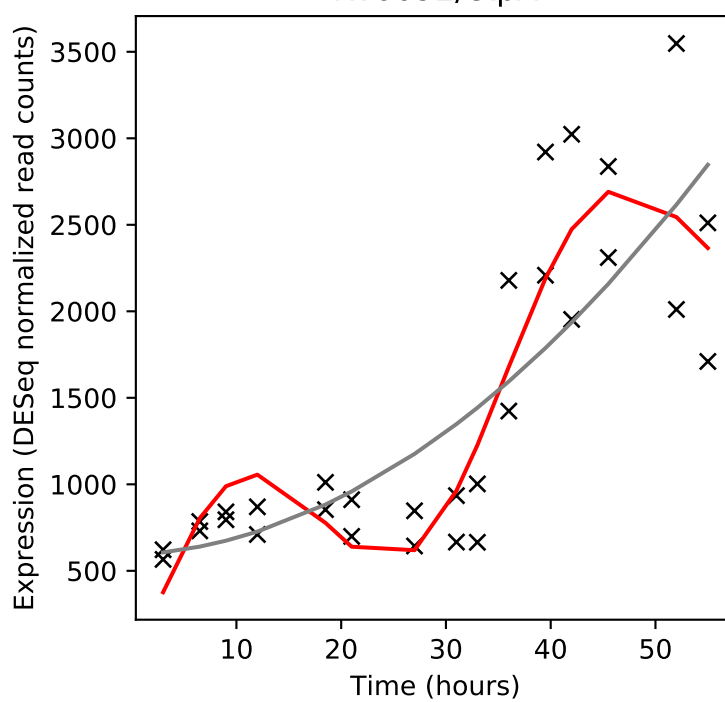
Rv0090/-



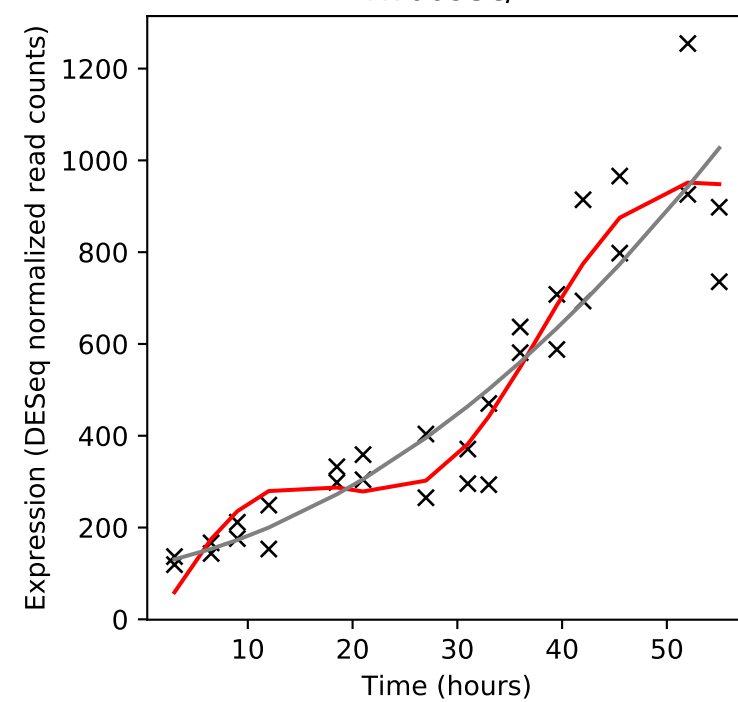
Rv0091/mtn



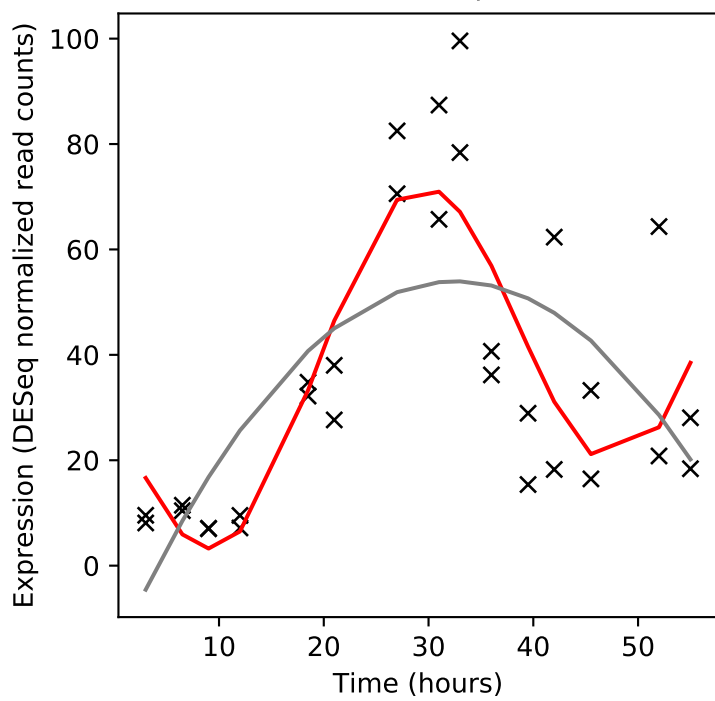
Rv0092/ctpA



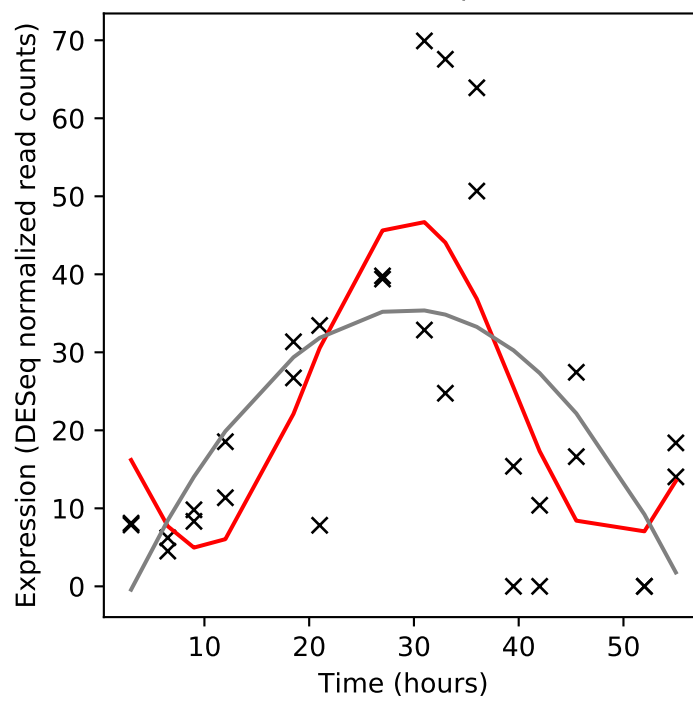
Rv0093c/-



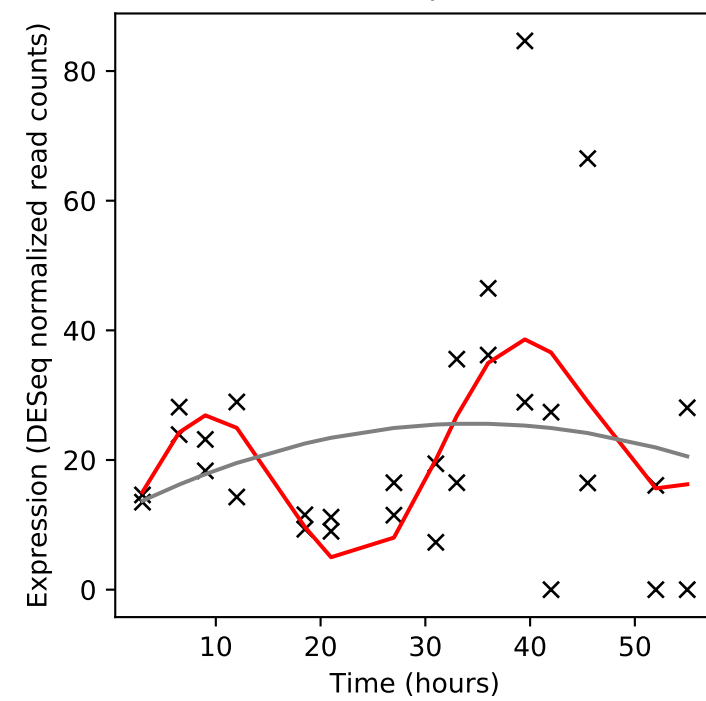
Rv0094c/-



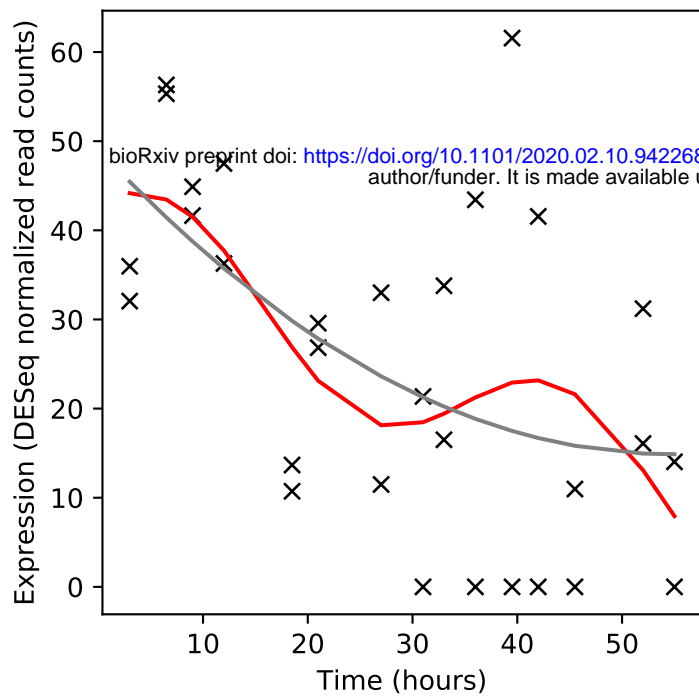
Rv0095c/-



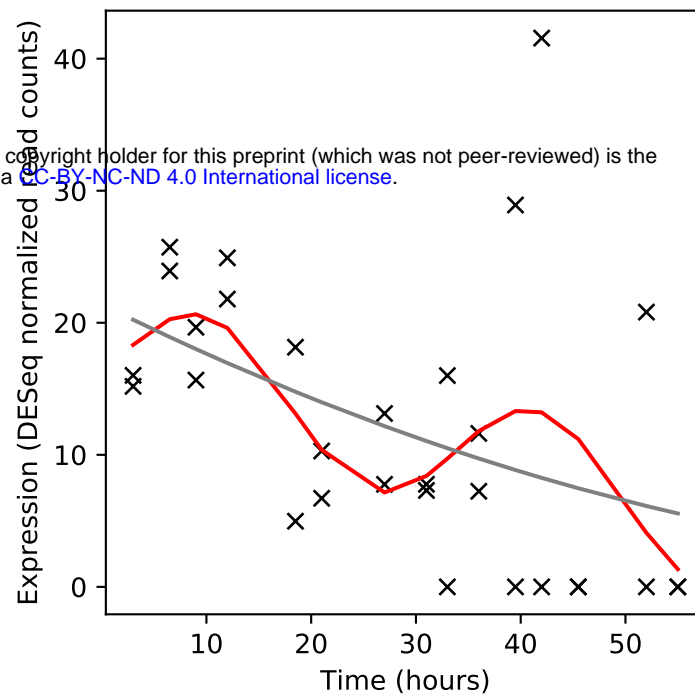
Rv0096/PPE1



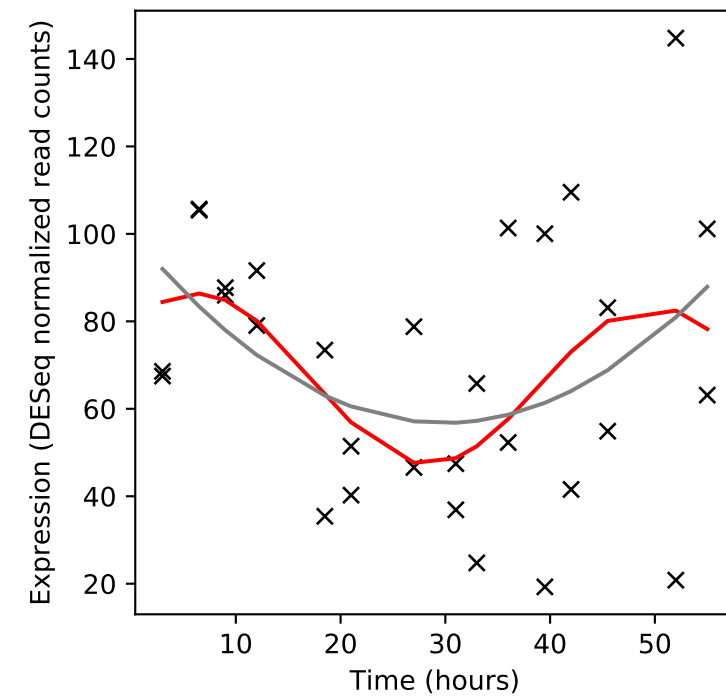
Rv0097/-



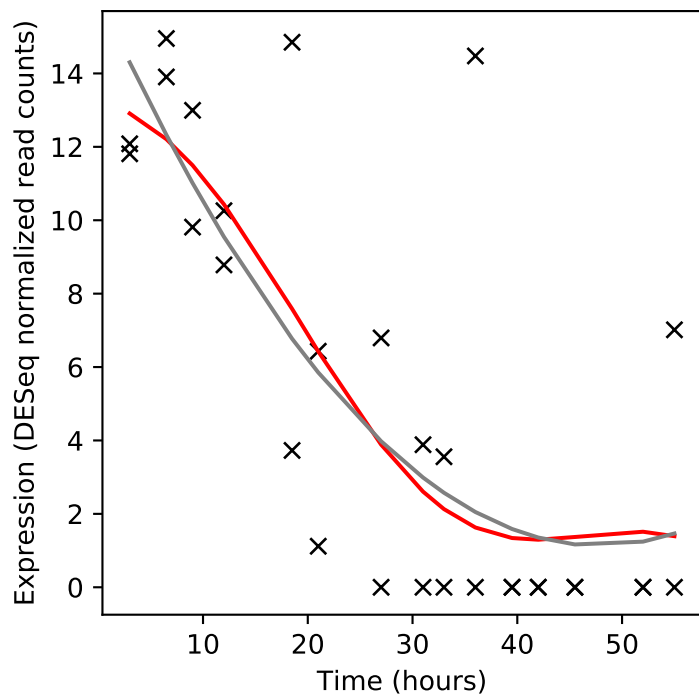
Rv0098/fcoT



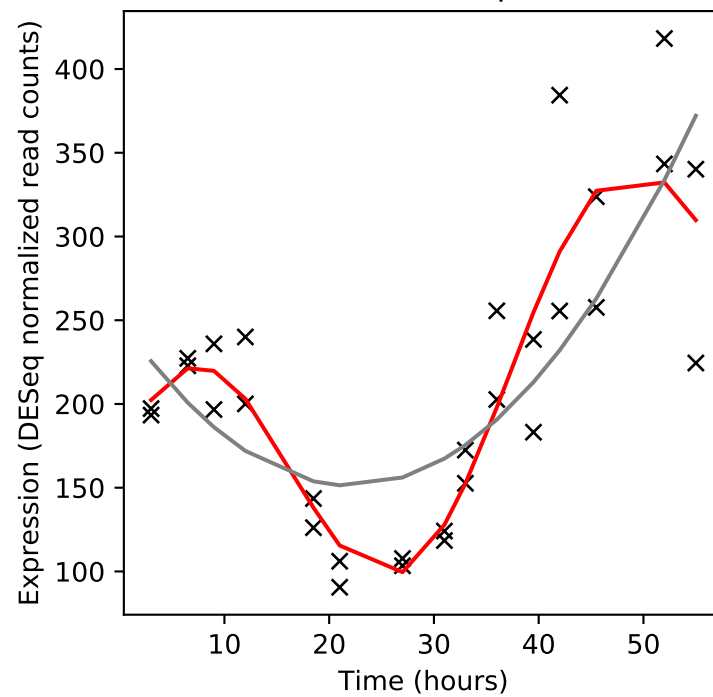
Rv0099/fadD10



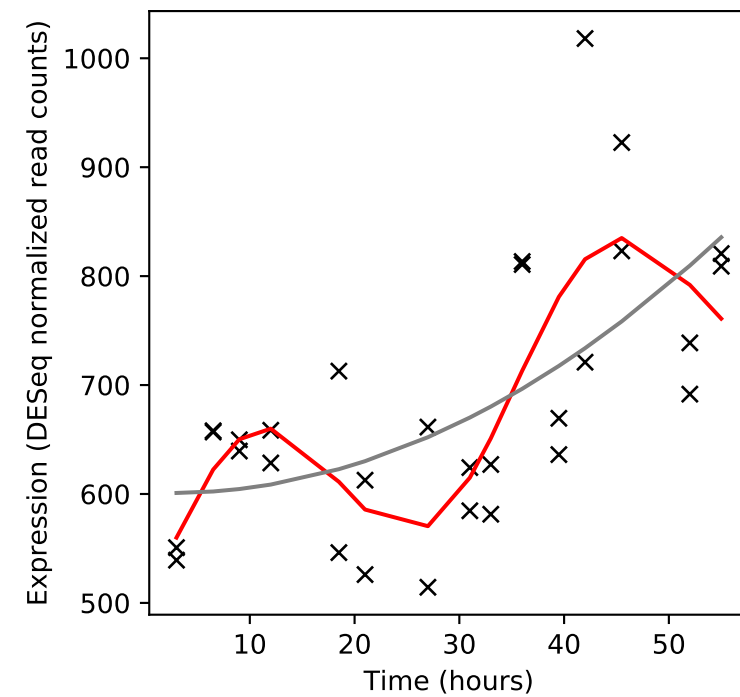
Rv0100/-



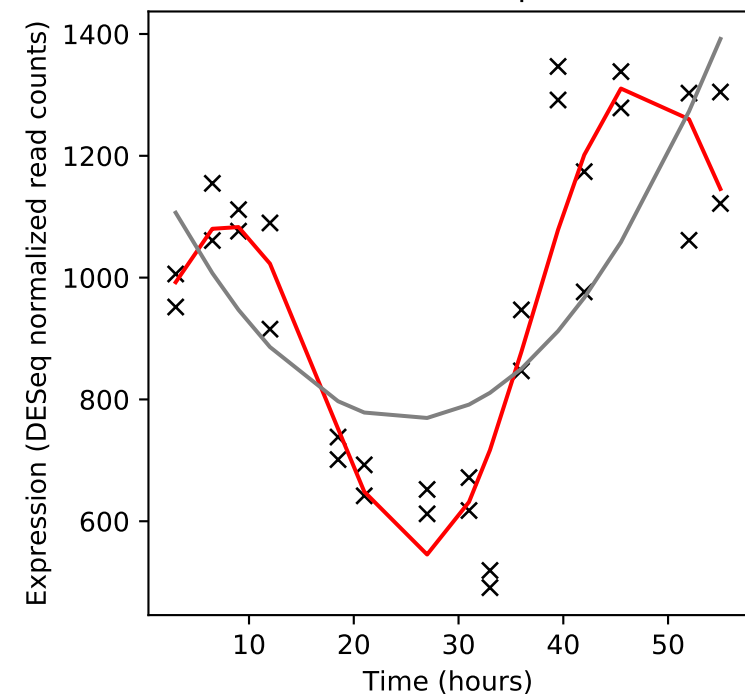
Rv0101/nrp



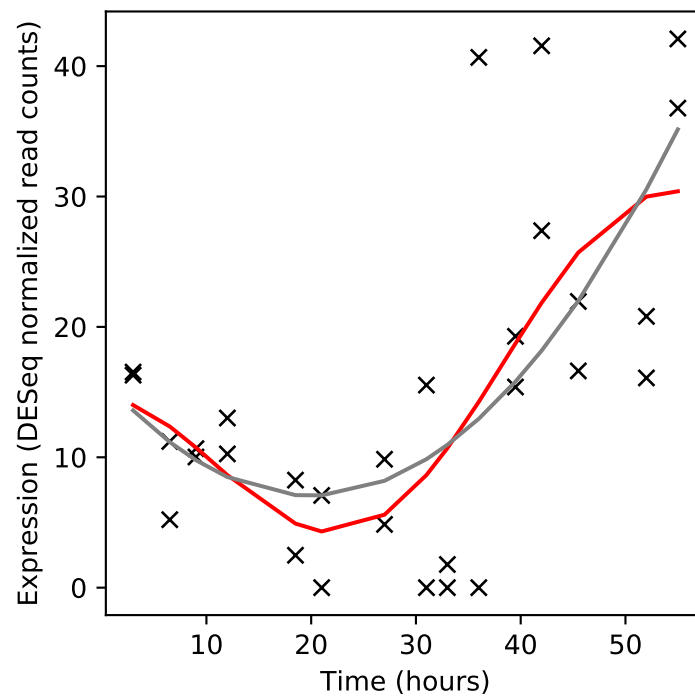
Rv0102/-



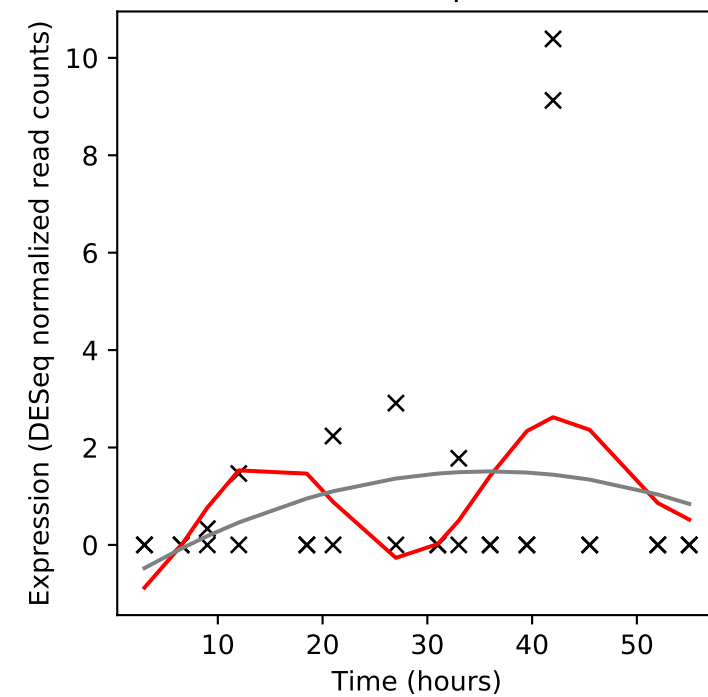
Rv0103c/ctpB



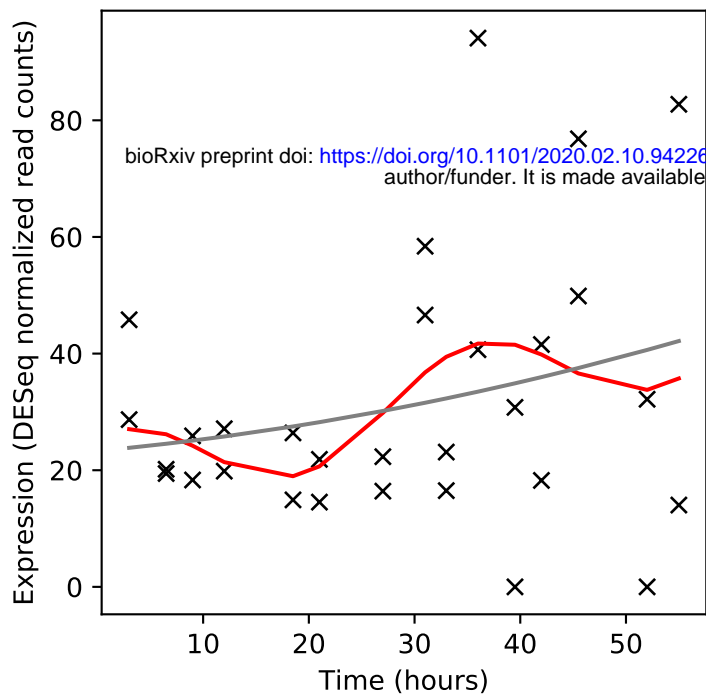
Rv0104/-



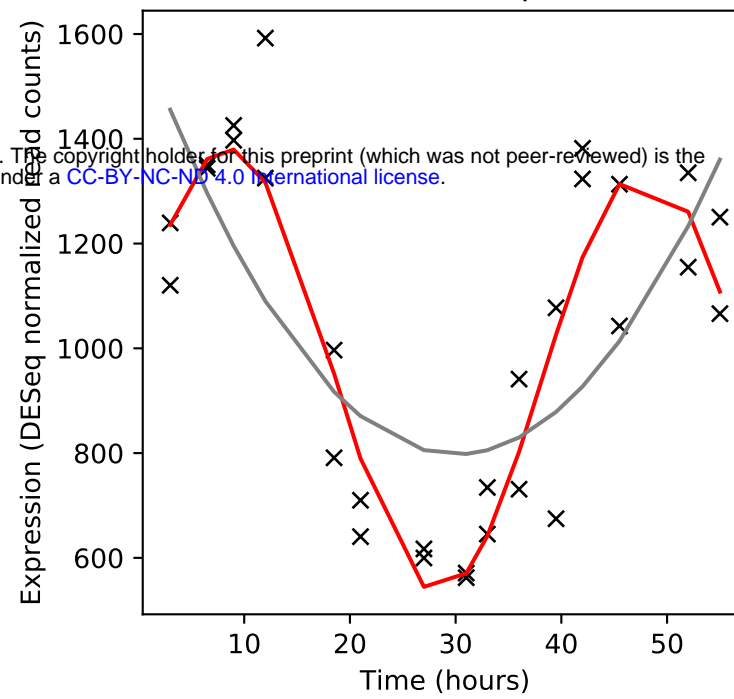
Rv0105c/rpmB1



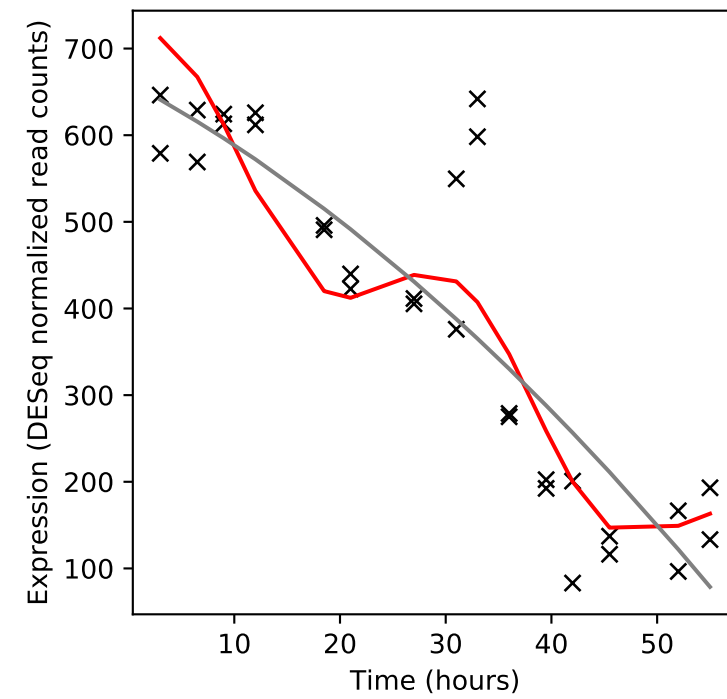
Rv0106/-



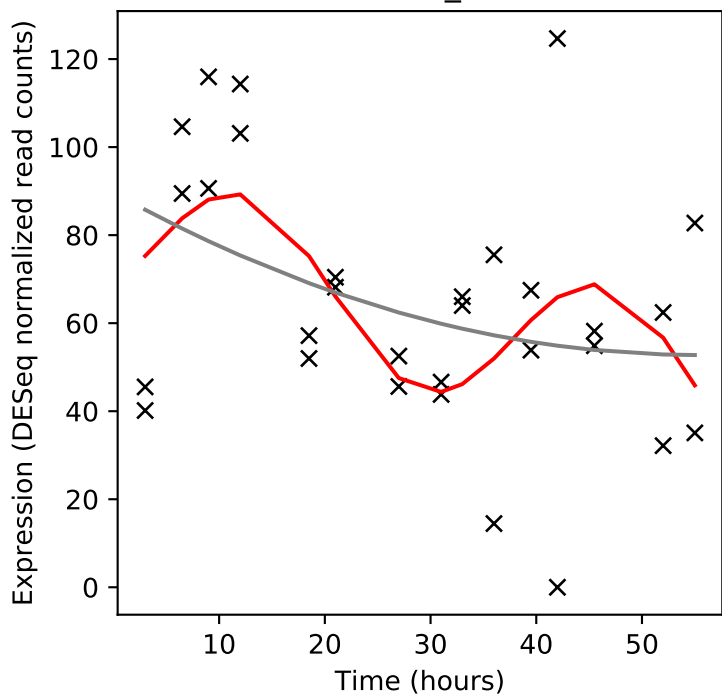
Rv0107c/ctpl



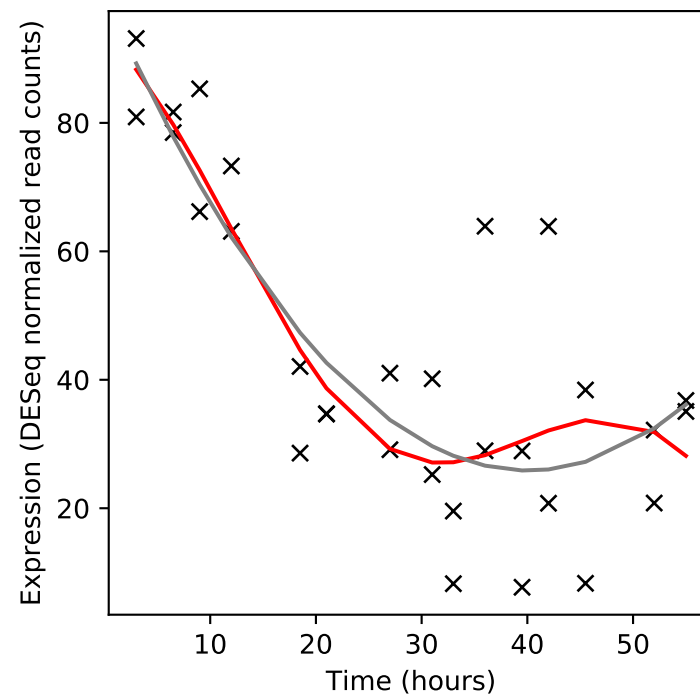
Rv0108c/-



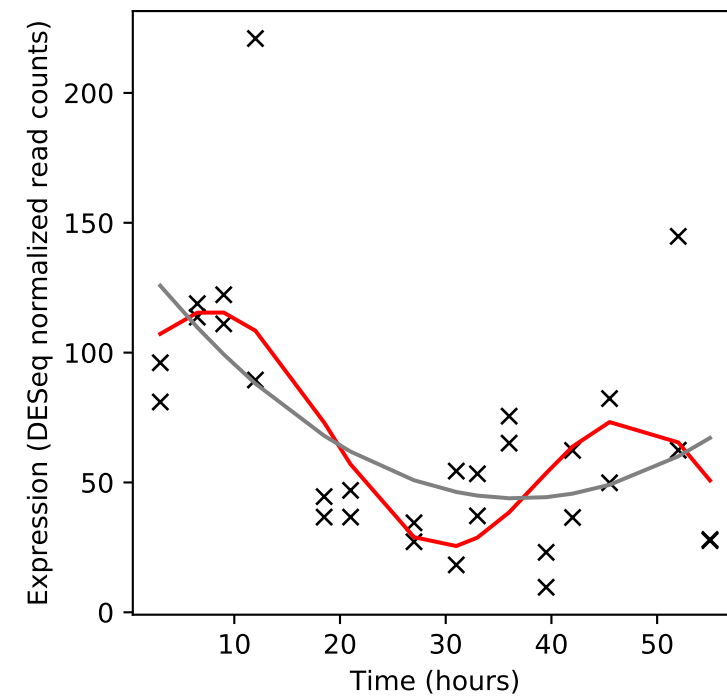
Rv0109/PE_PGRS1



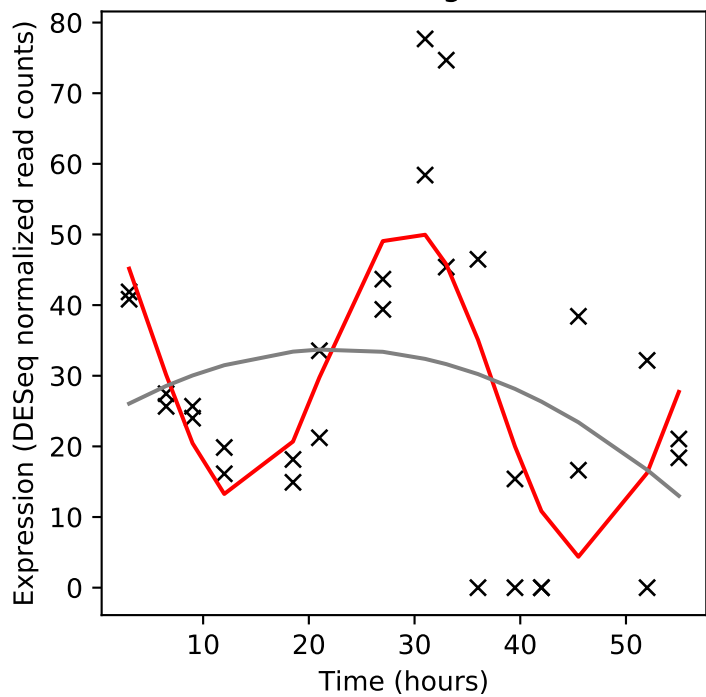
Rv0110/-



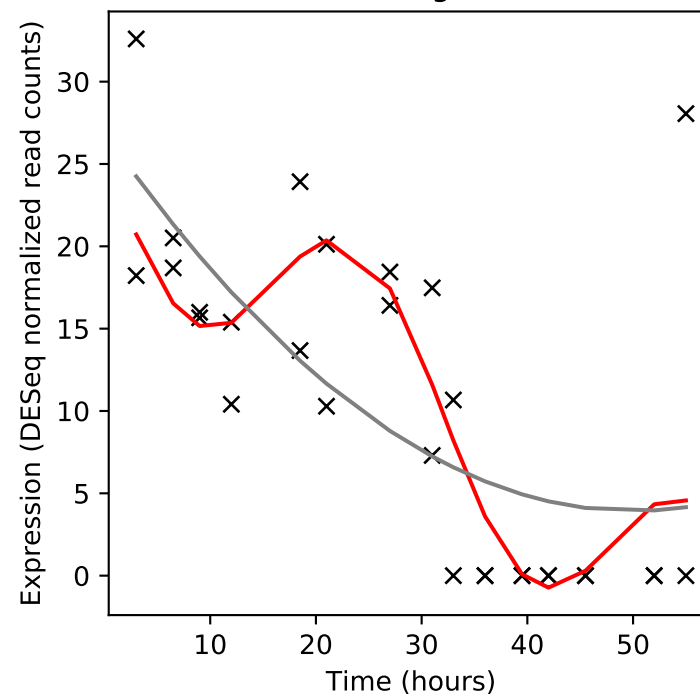
Rv0111/-



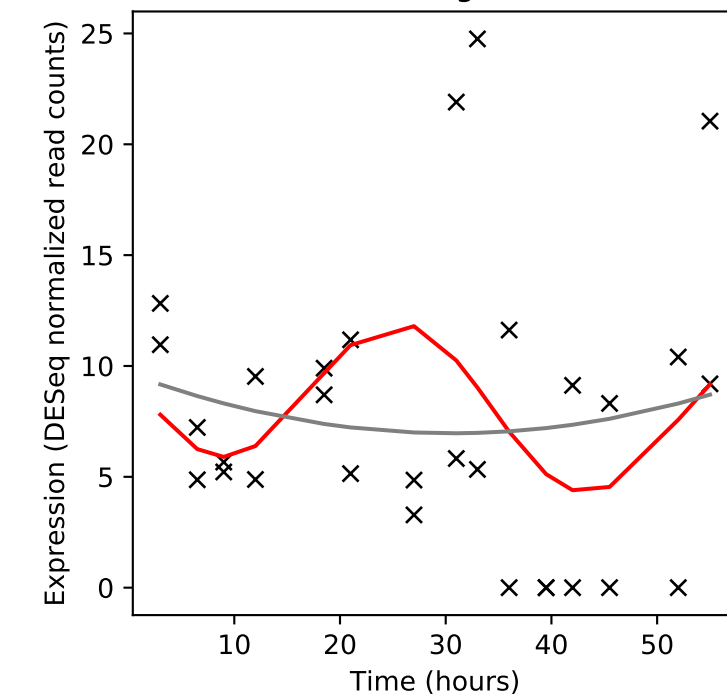
Rv0112/gca



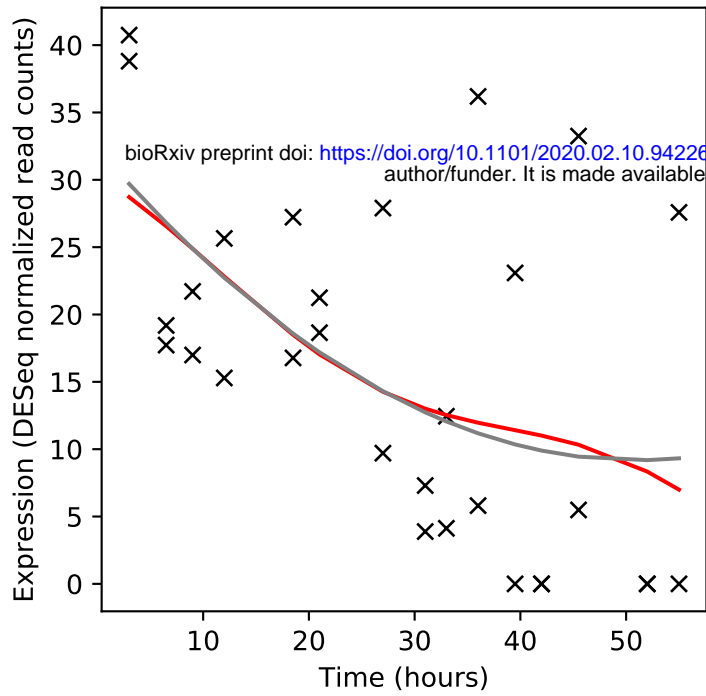
Rv0113/gmhA



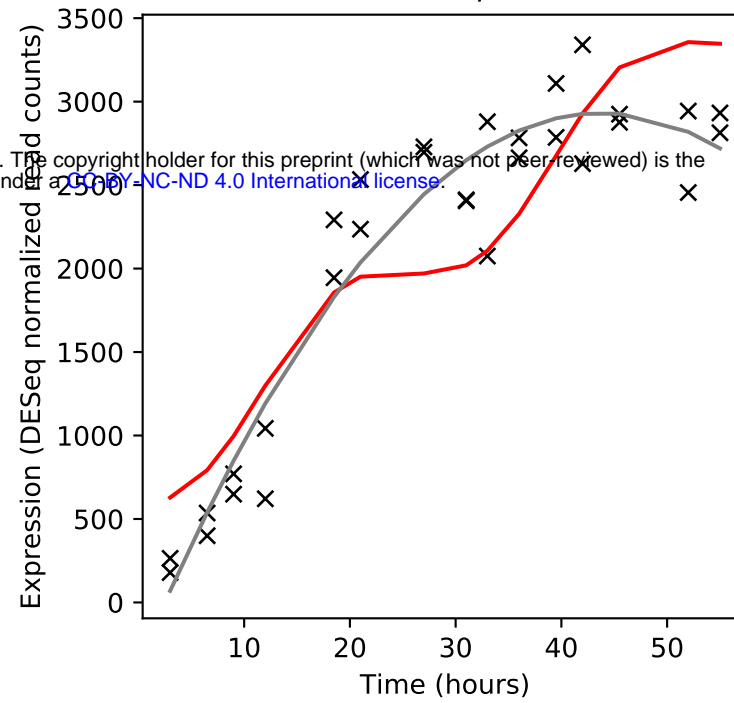
Rv0114/gmhB



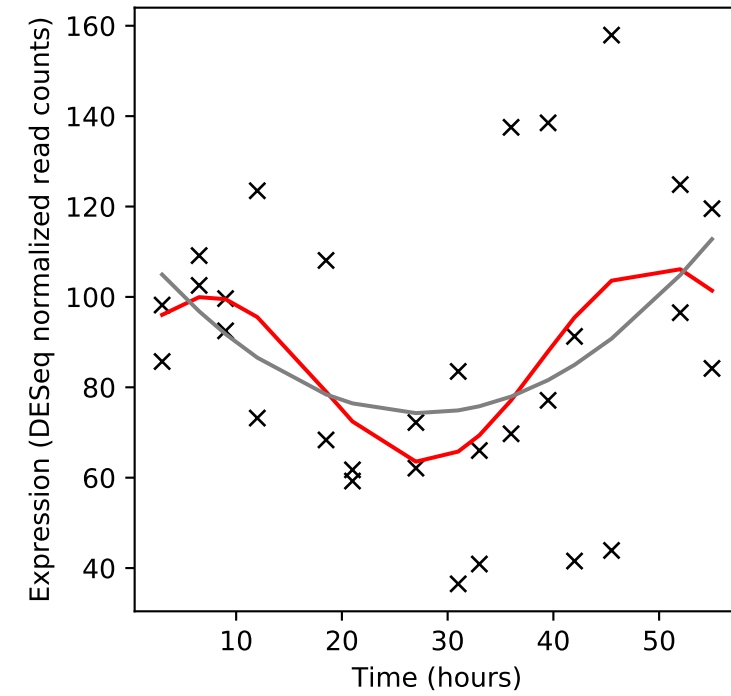
Rv0115/hddA



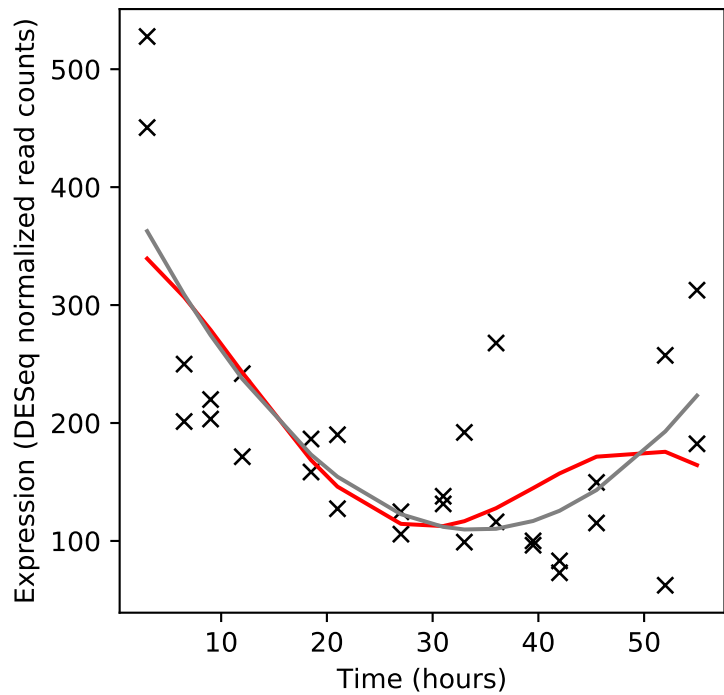
Rv0116c/ldtA



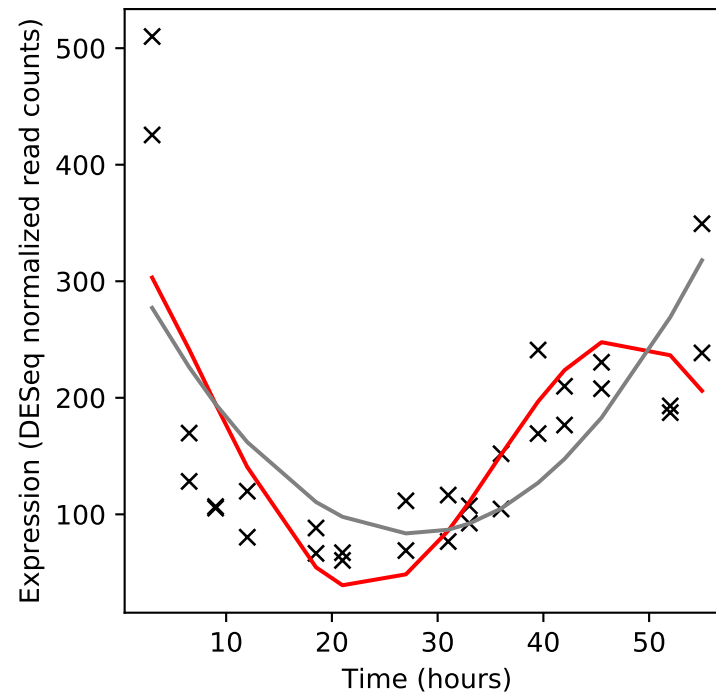
Rv0117/oxyS



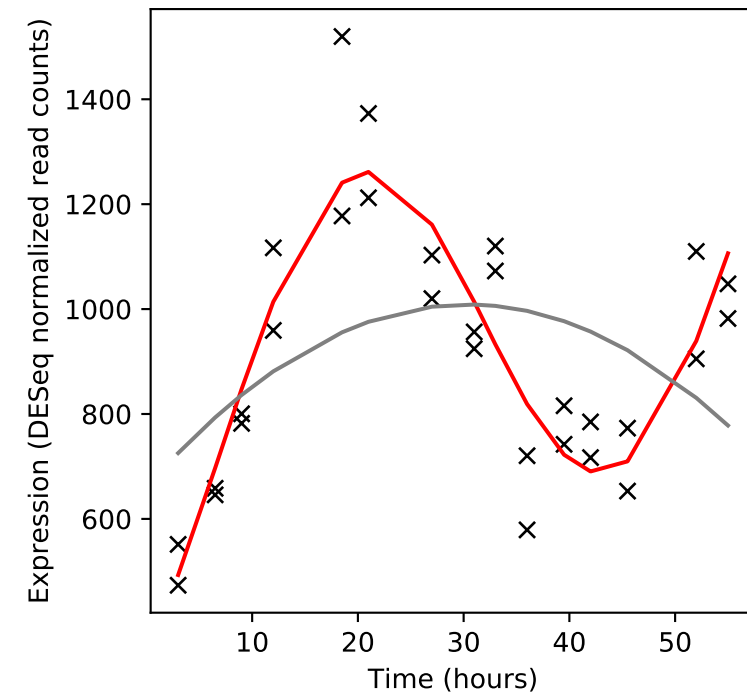
Rv0118c/oxcA



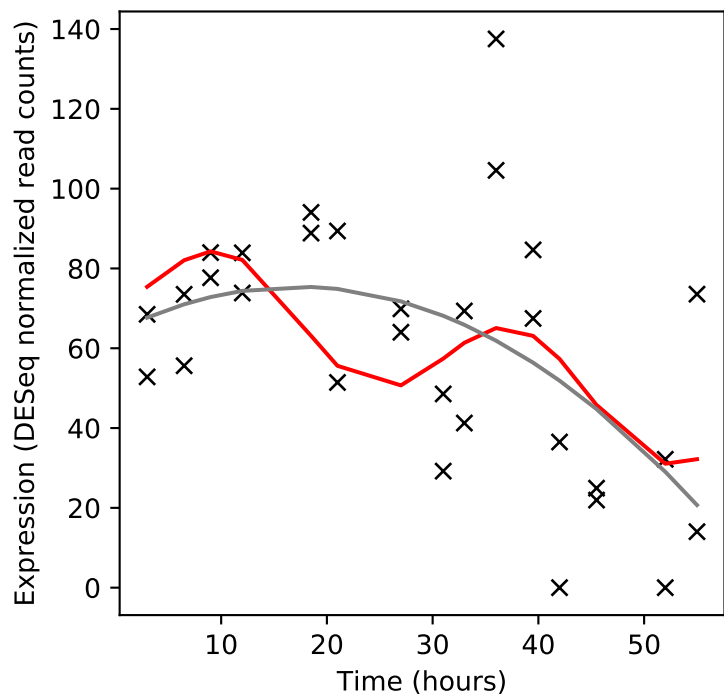
Rv0119/fadD7



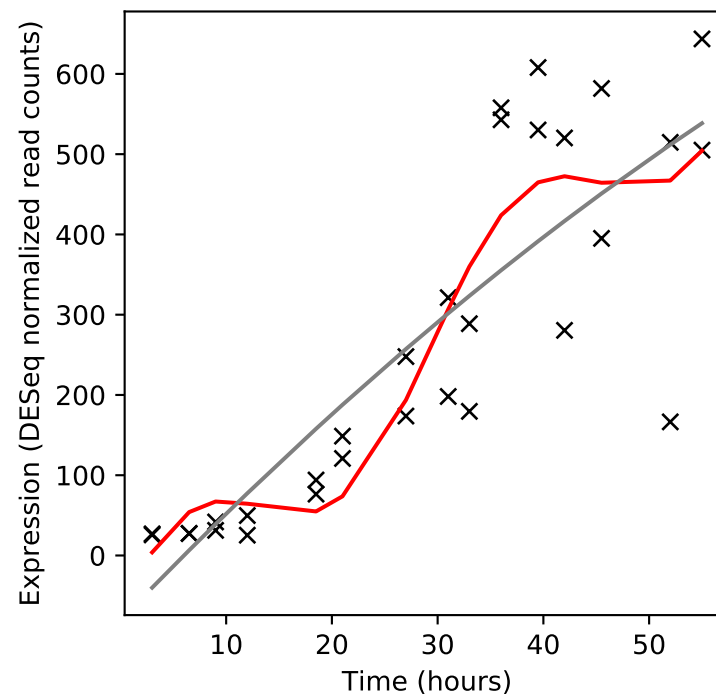
Rv0120c/fusA2



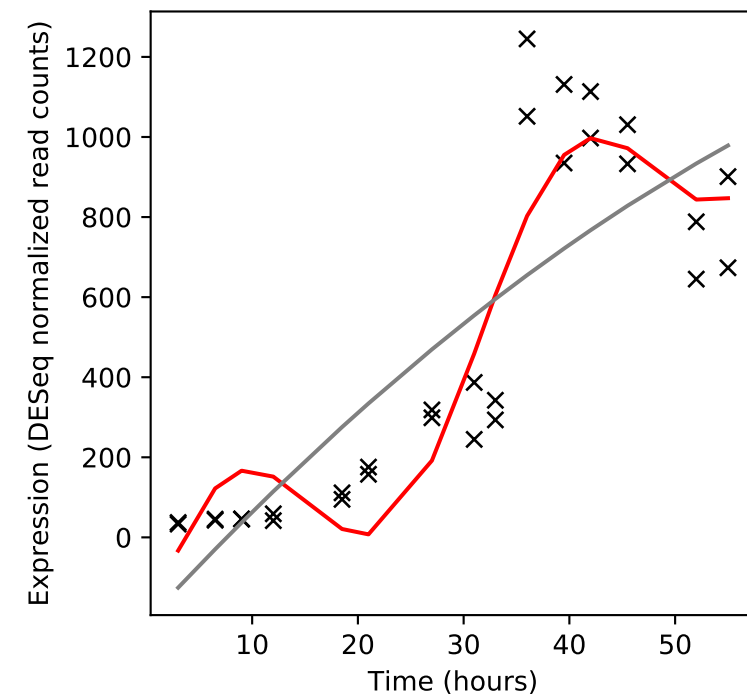
Rv0121c/-



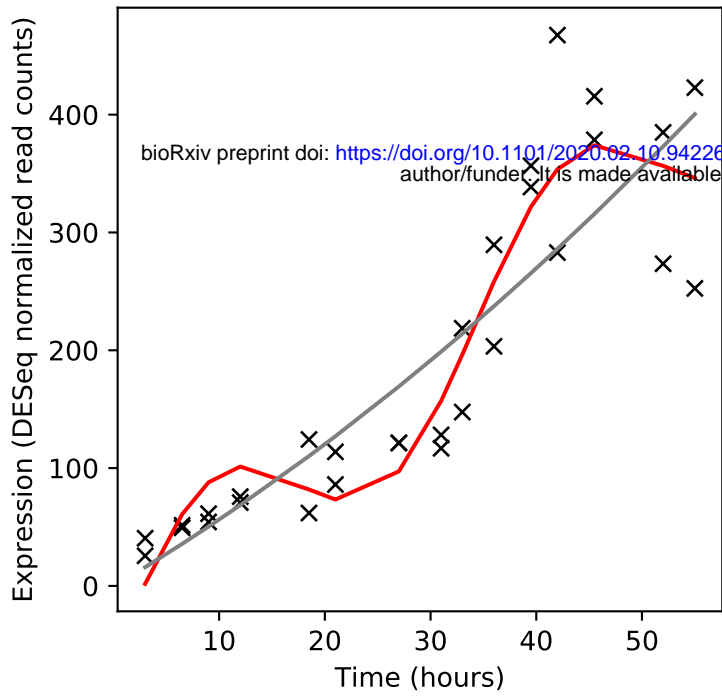
Rv0122/-



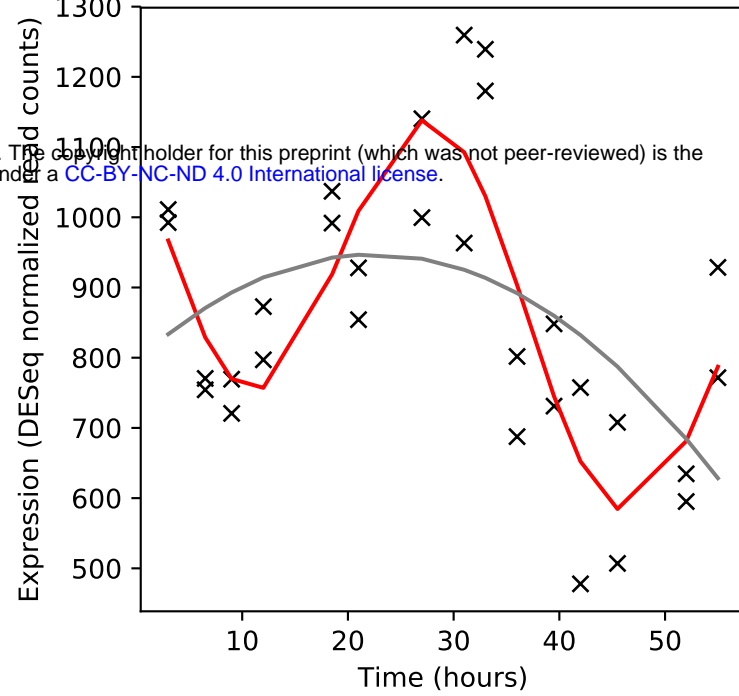
Rv0123/-



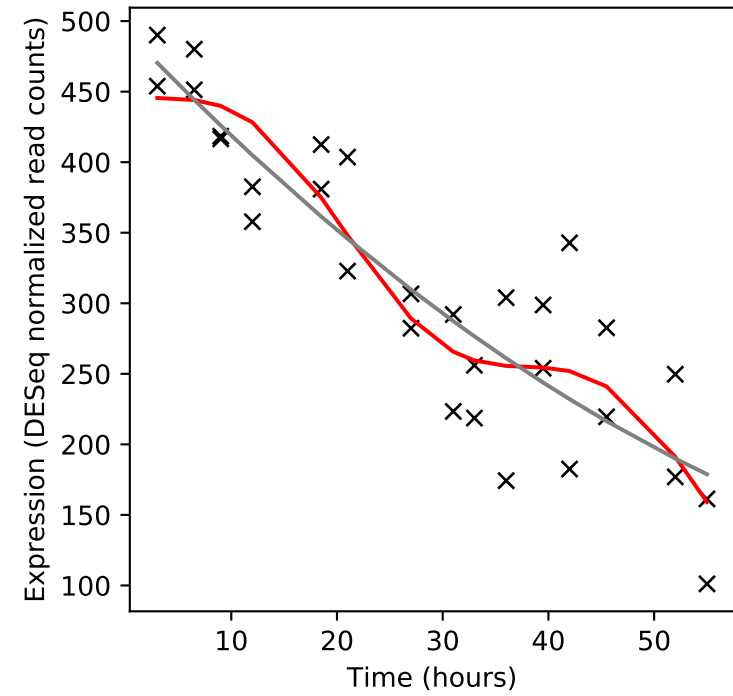
Rv0124/PE_PGRS2



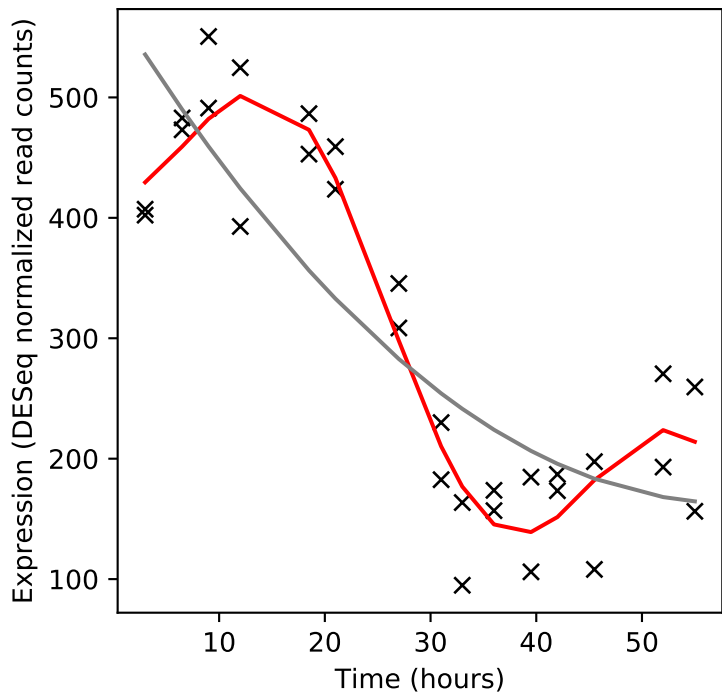
Rv0125/pepA



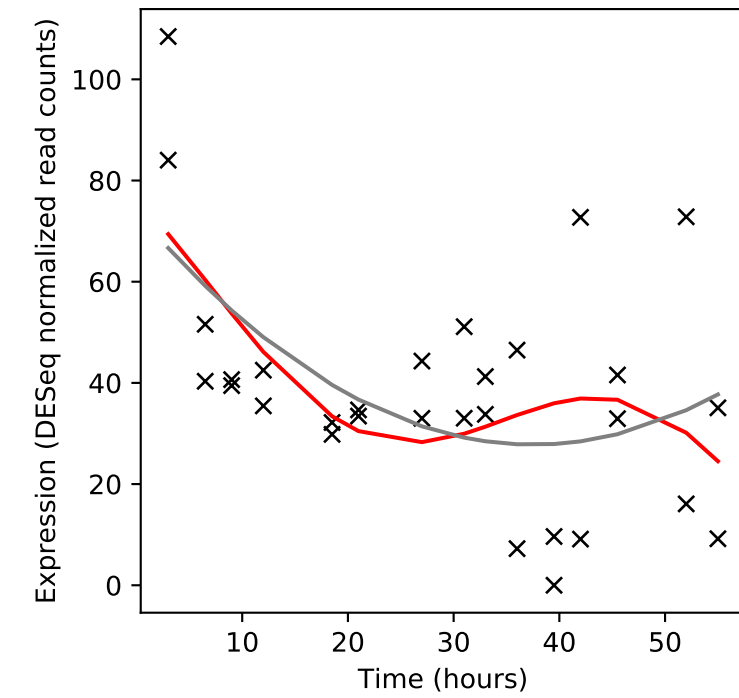
Rv0126/treS



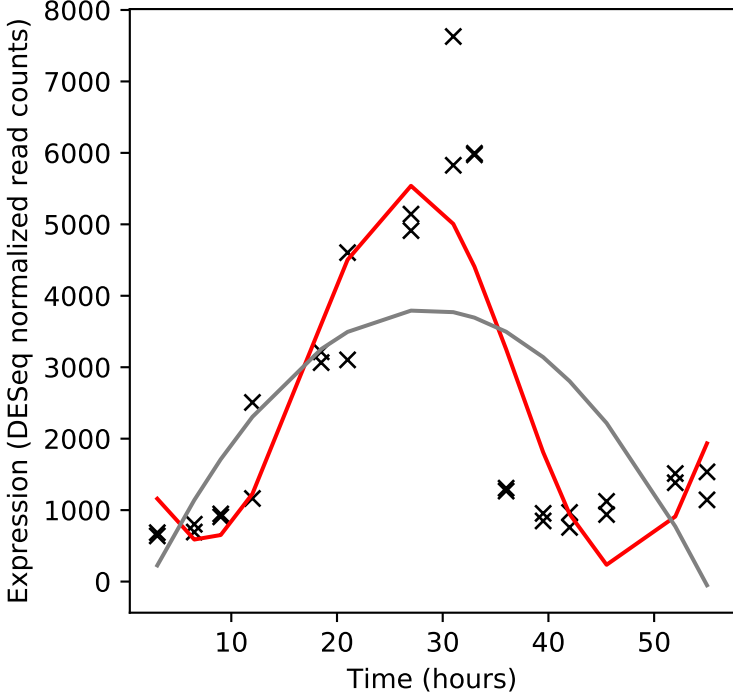
Rv0127/mak



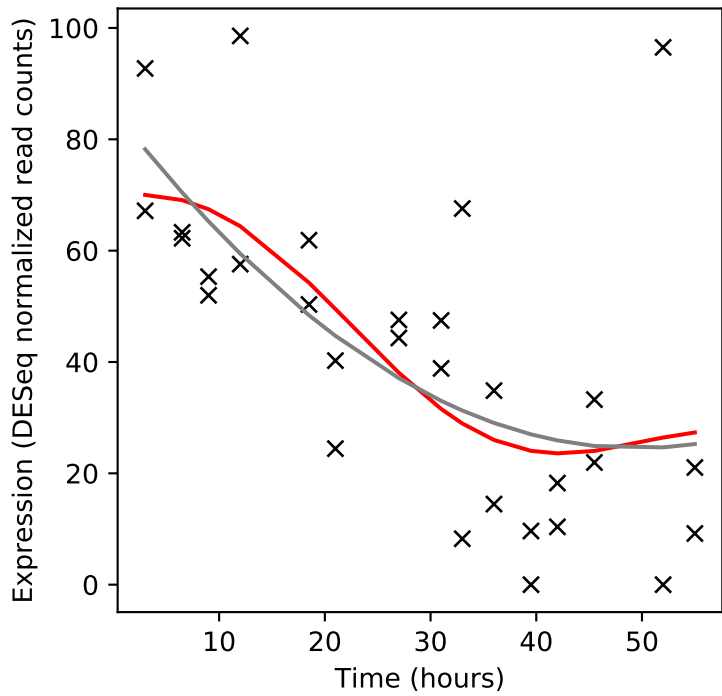
Rv0128/-



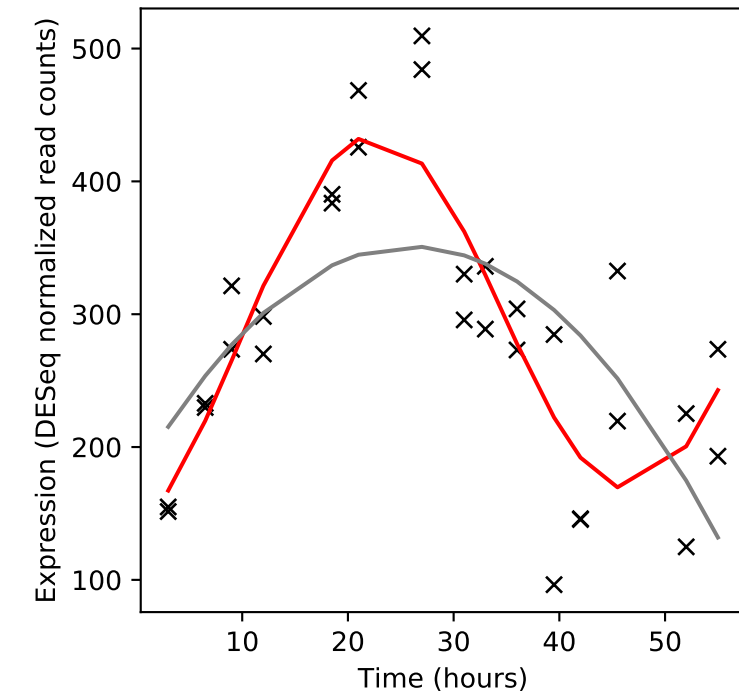
Rv0129c/fbpC



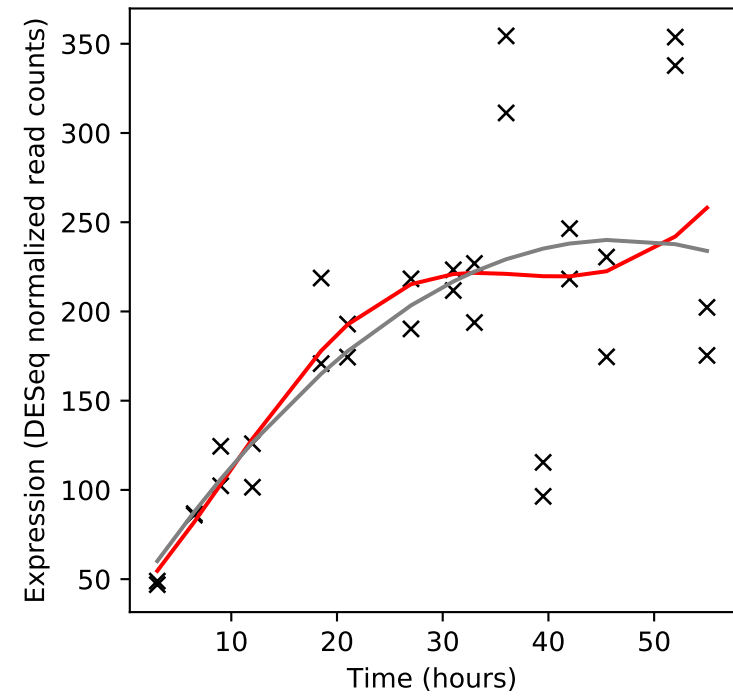
Rv0130/htdZ



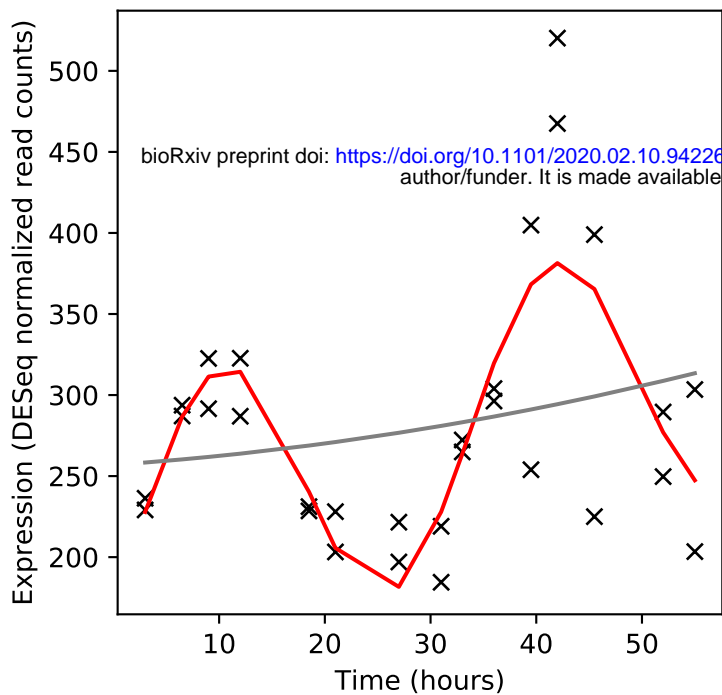
Rv0131c/fadE1



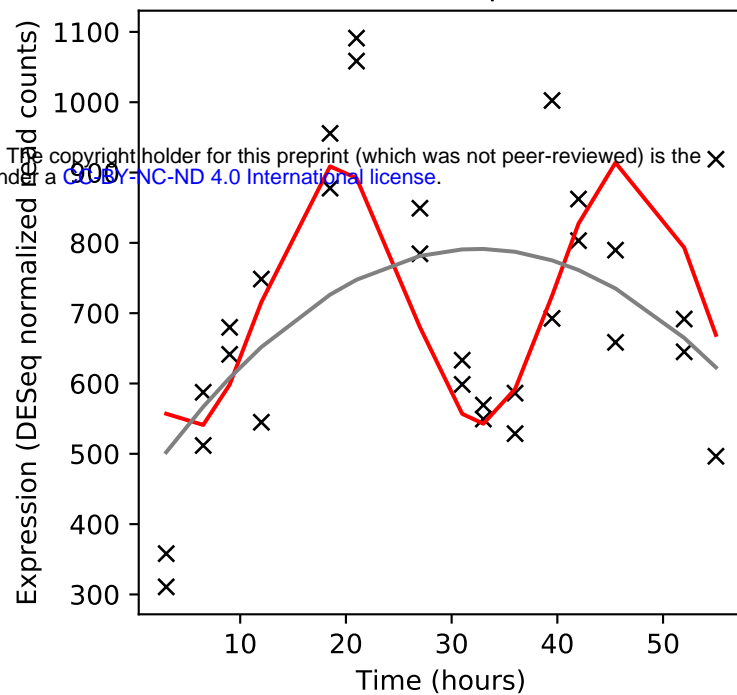
Rv0132c/fgd2



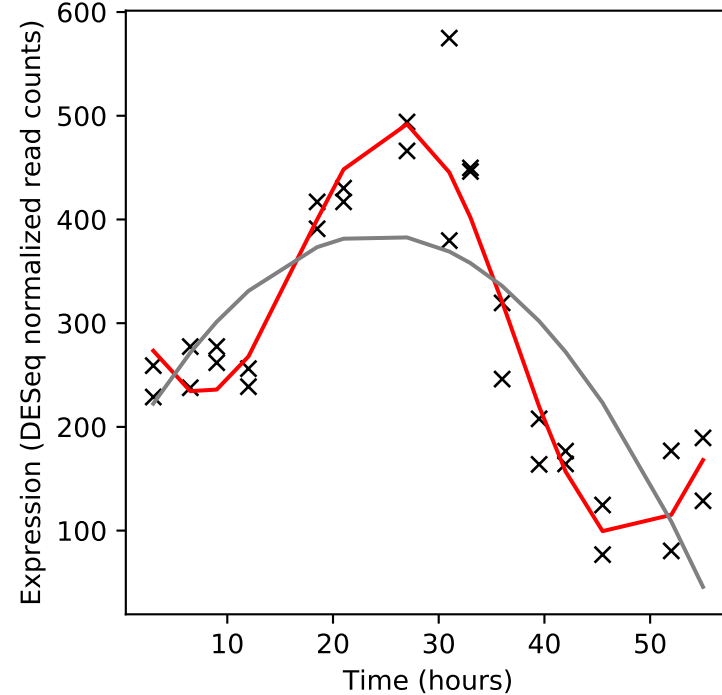
Rv0133/-



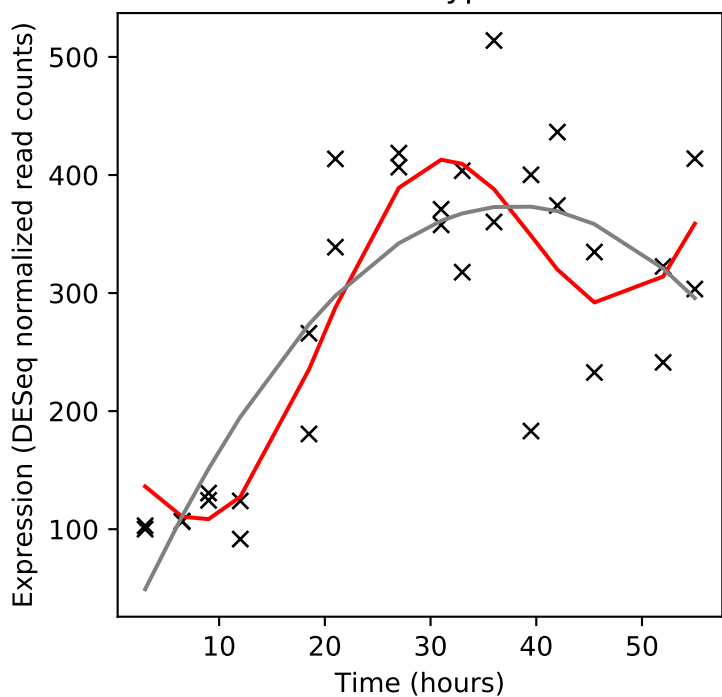
Rv0134/ephF



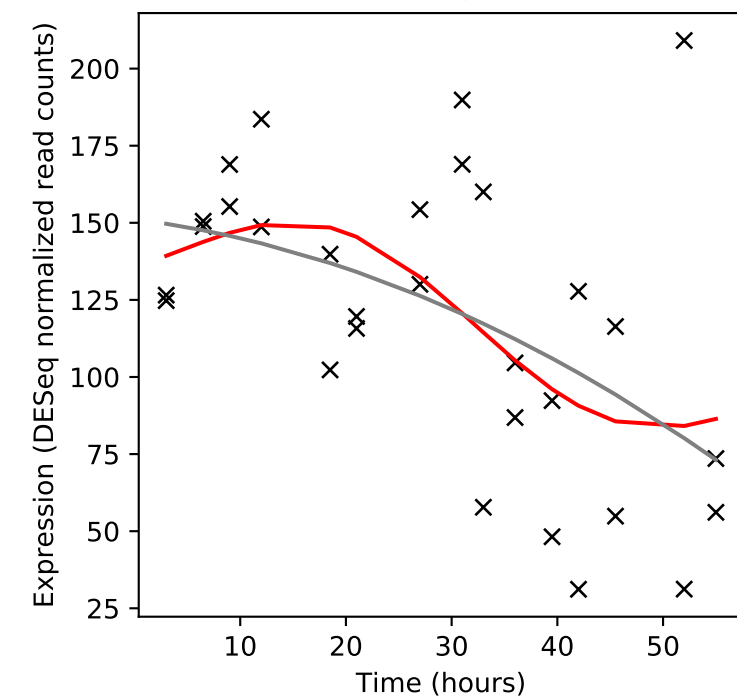
Rv0135c/-



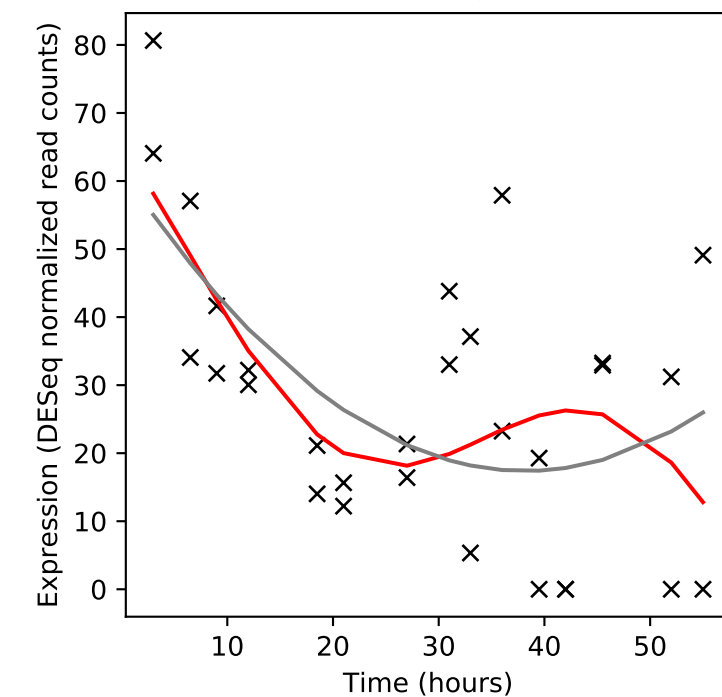
Rv0136/cyp138



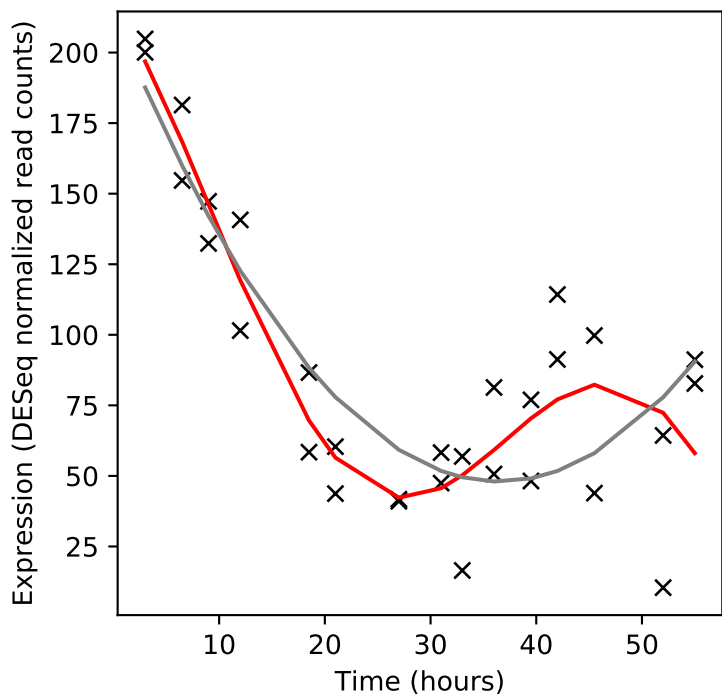
Rv0137c/msrA



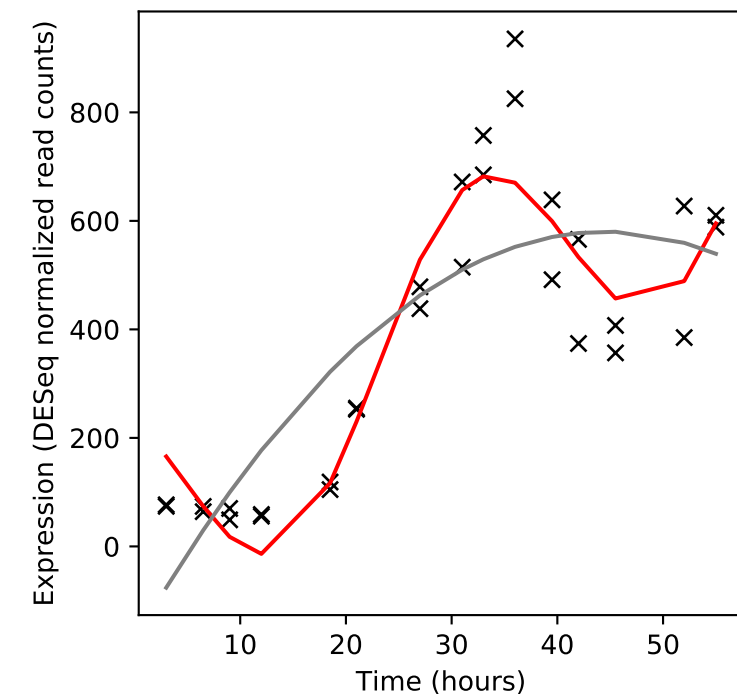
Rv0138/-



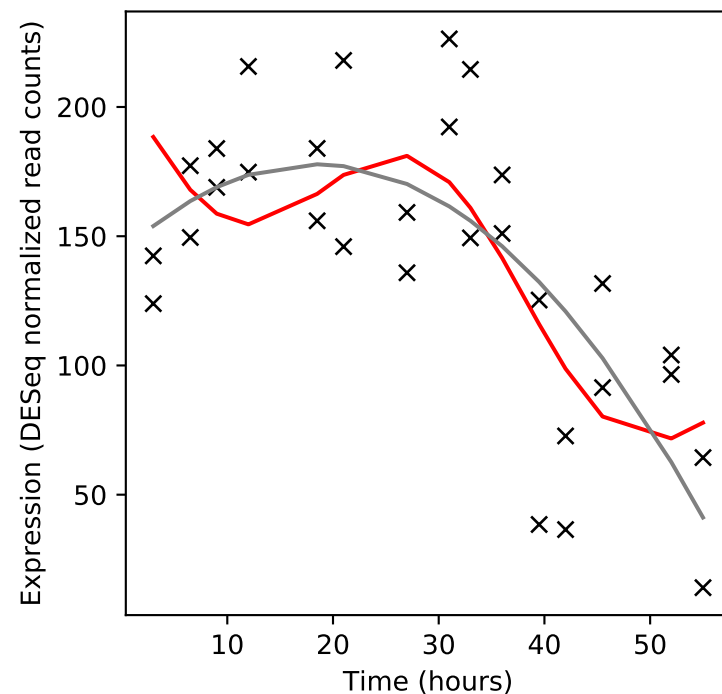
Rv0139/-



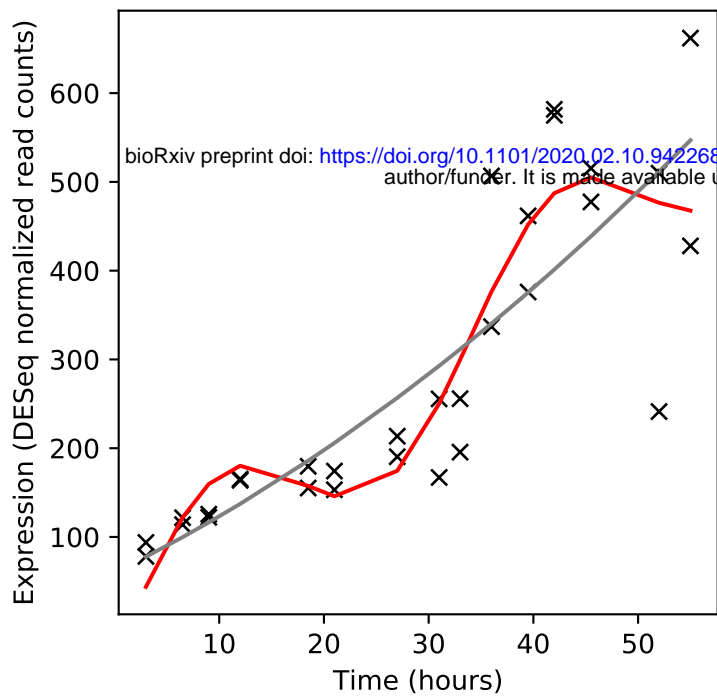
Rv0140/-



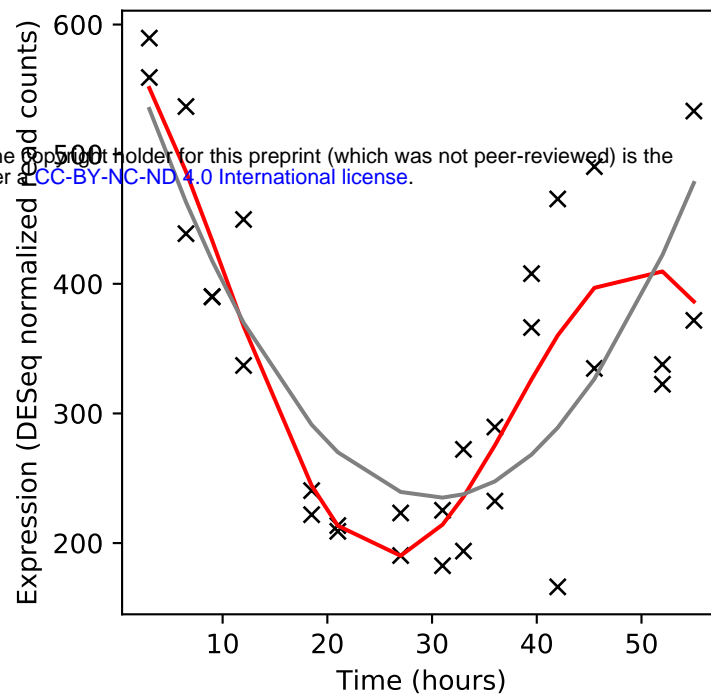
Rv0141c/-



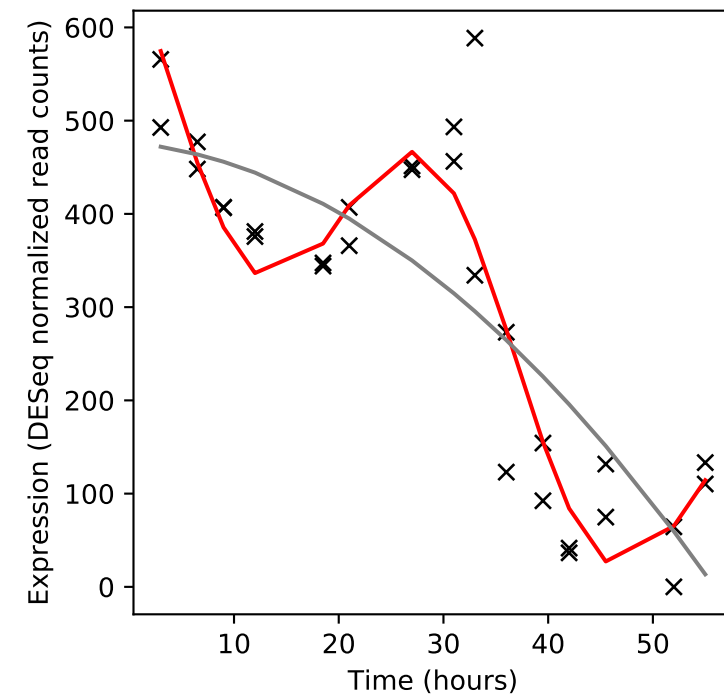
Rv0142/-



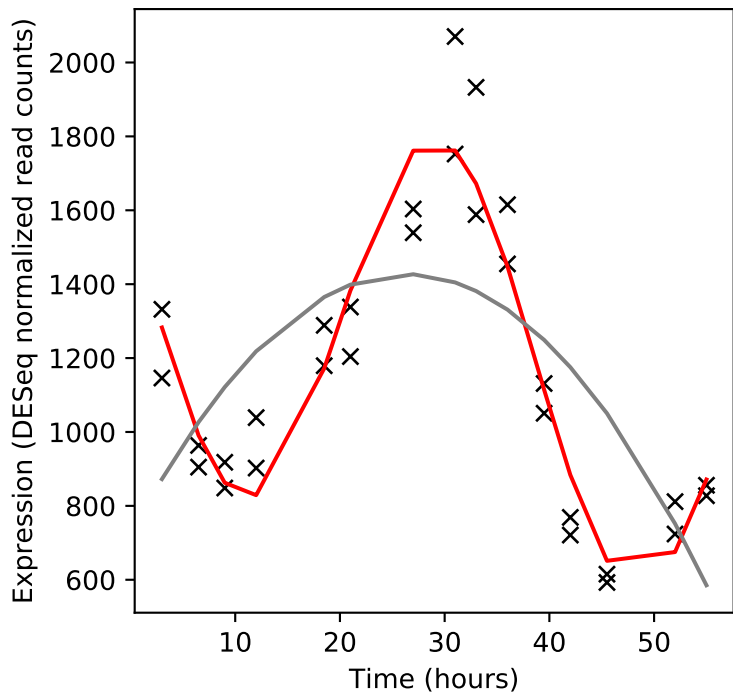
Rv0143c/-



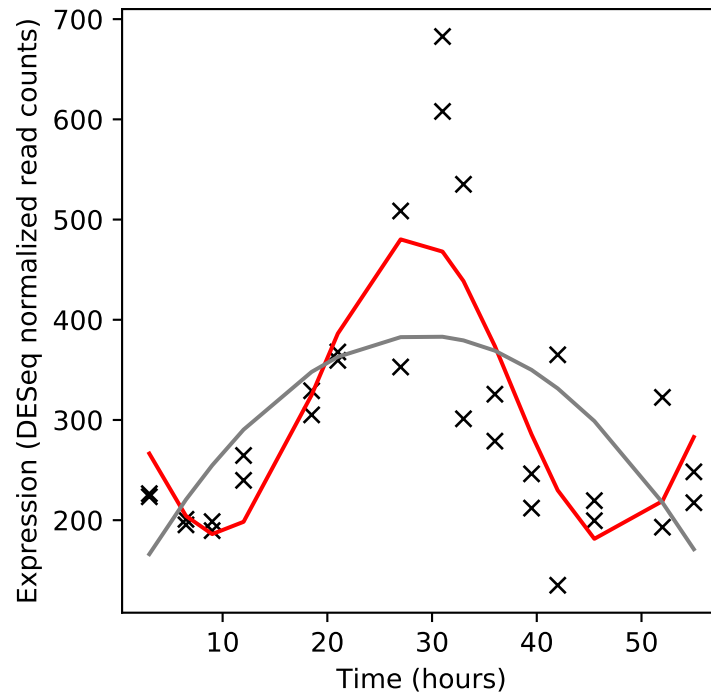
Rv0144/-



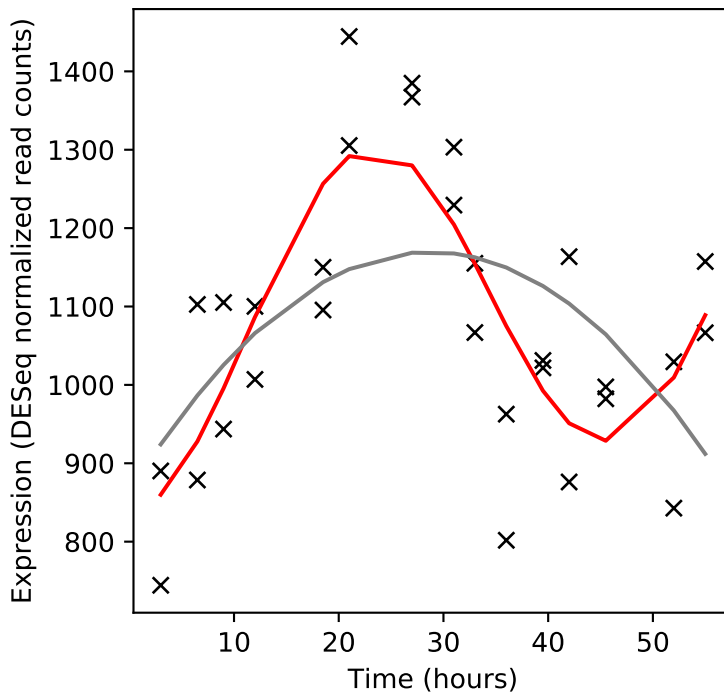
Rv0145/-



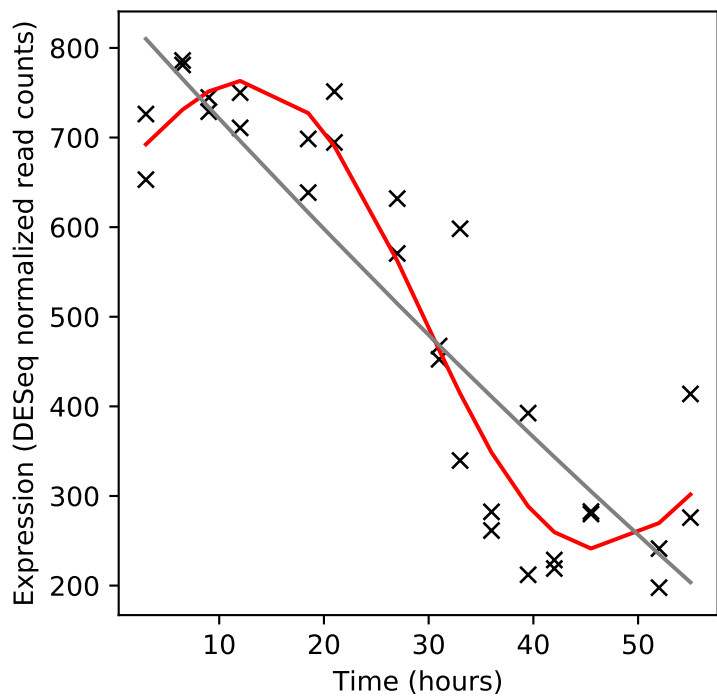
Rv0146/-



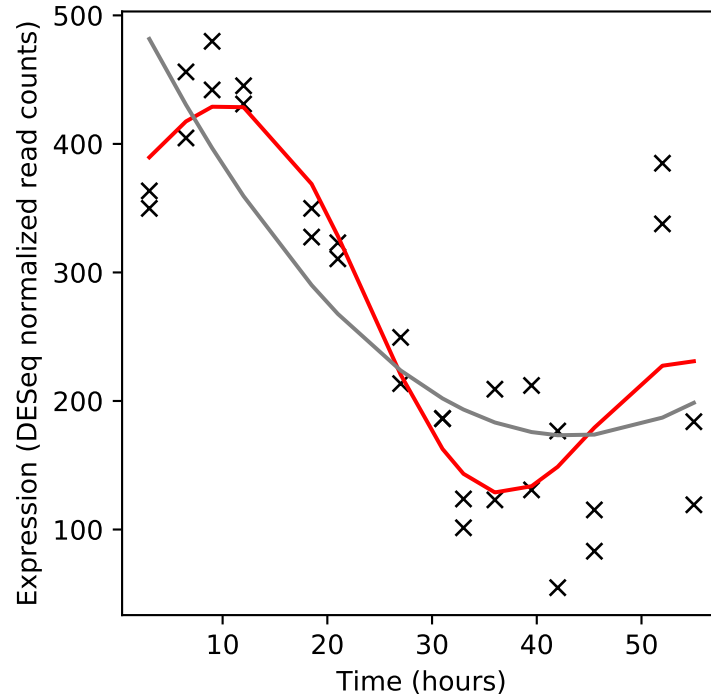
Rv0147/-



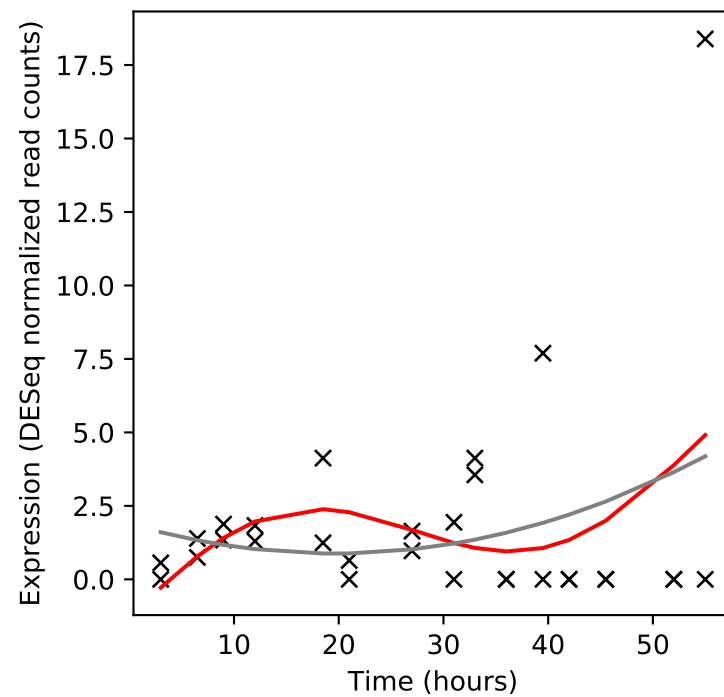
Rv0148/-



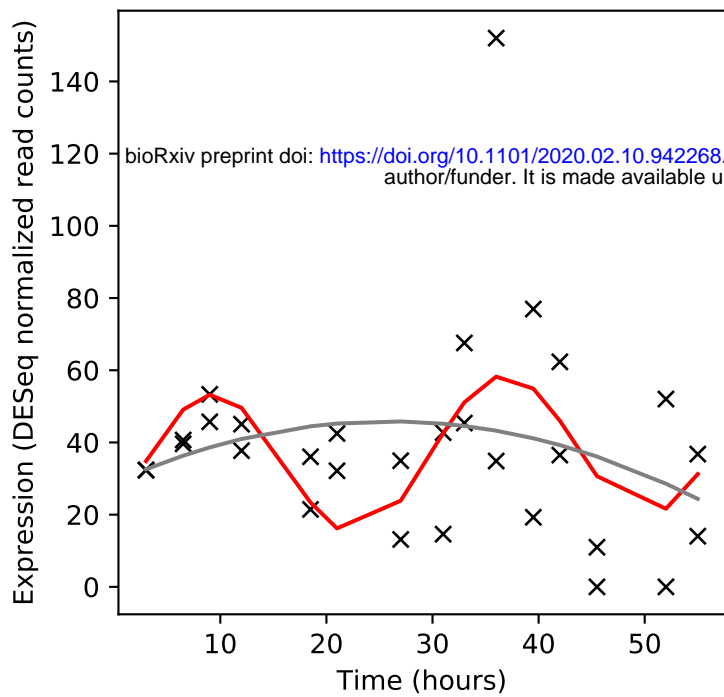
Rv0149/-



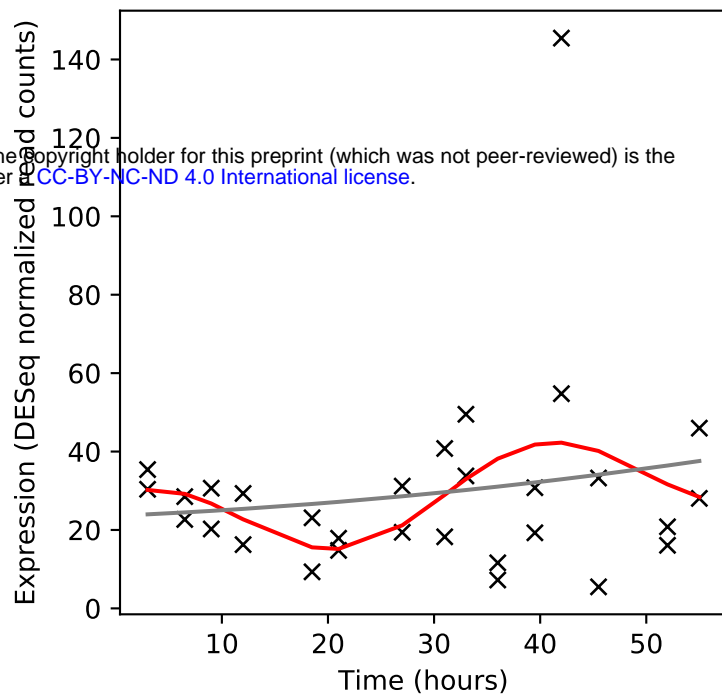
Rv0150c/-



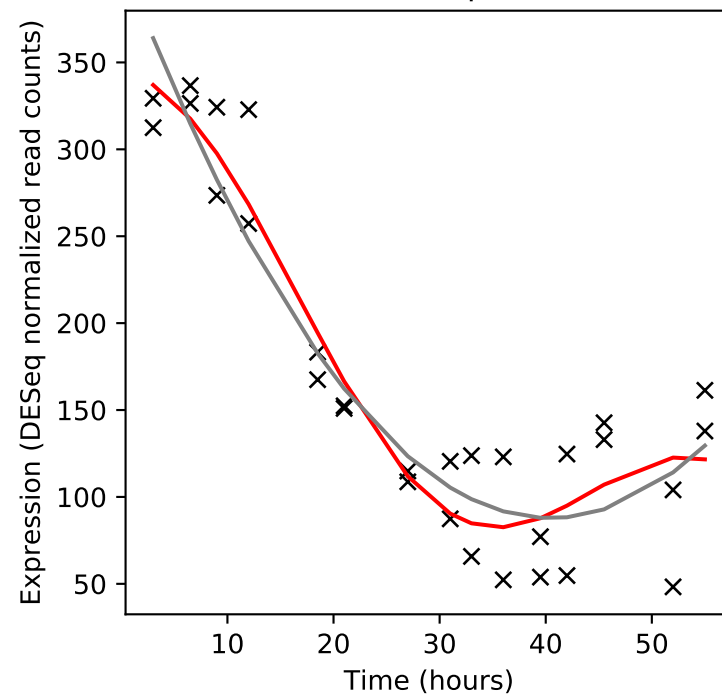
Rv0151c/PE1



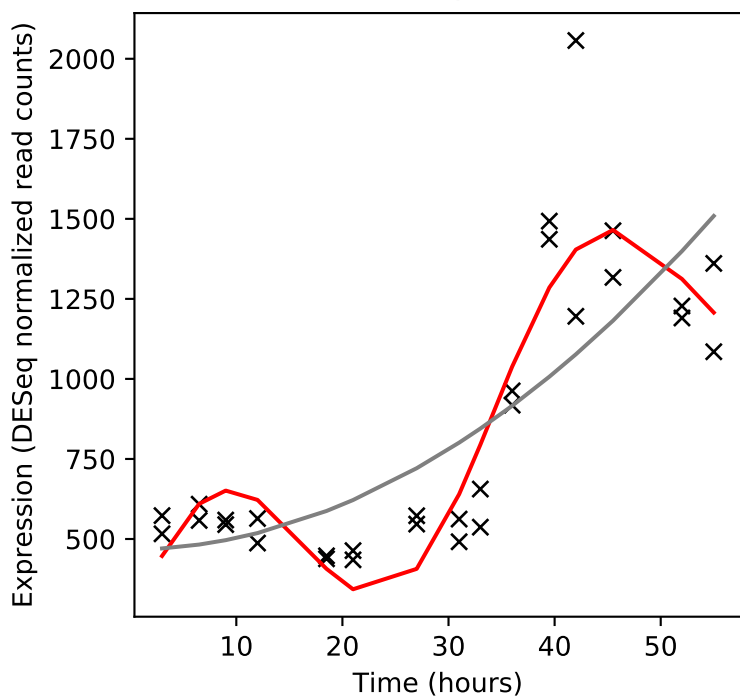
Rv0152c/PE2



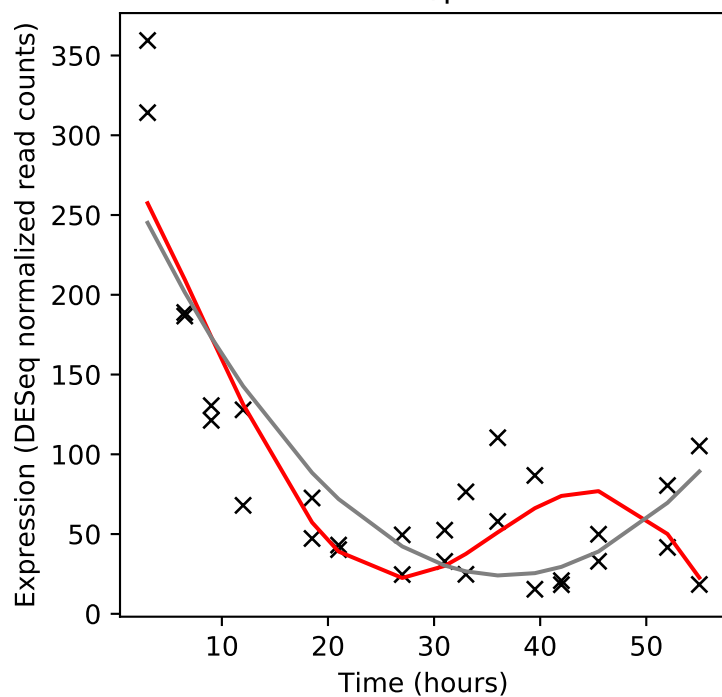
Rv0153c/ptbB



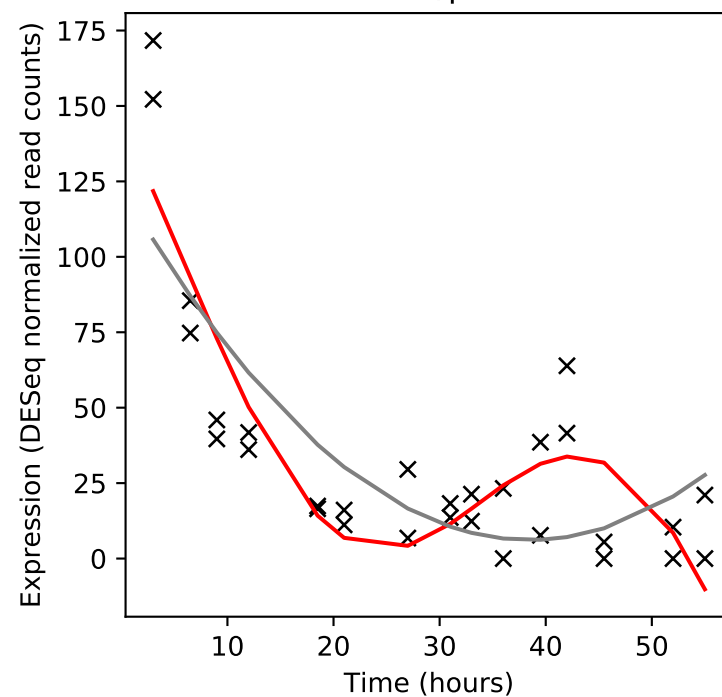
Rv0154c/fadE2



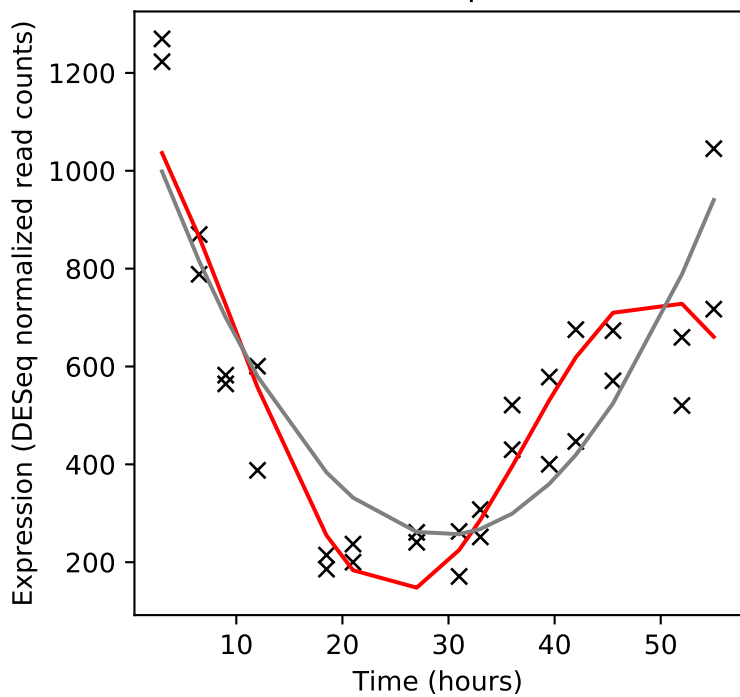
Rv0155/pntAa



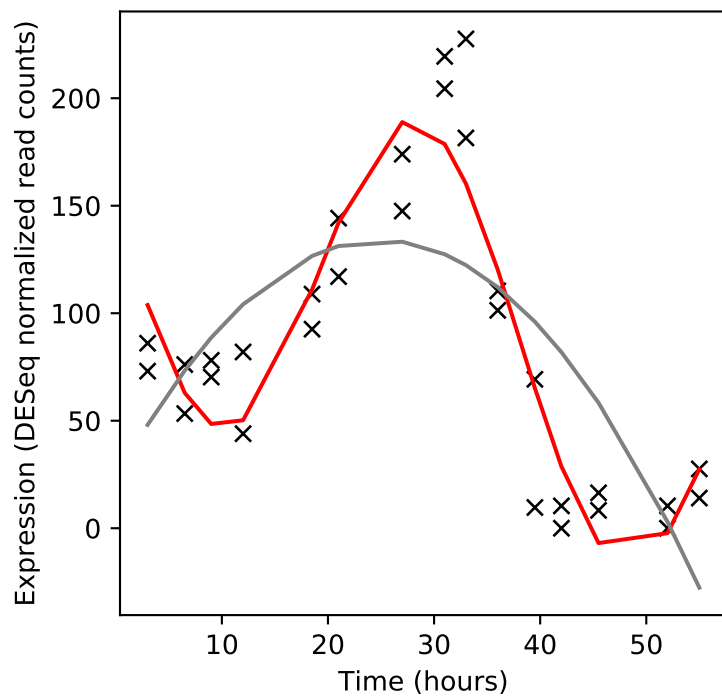
Rv0156/pntAb



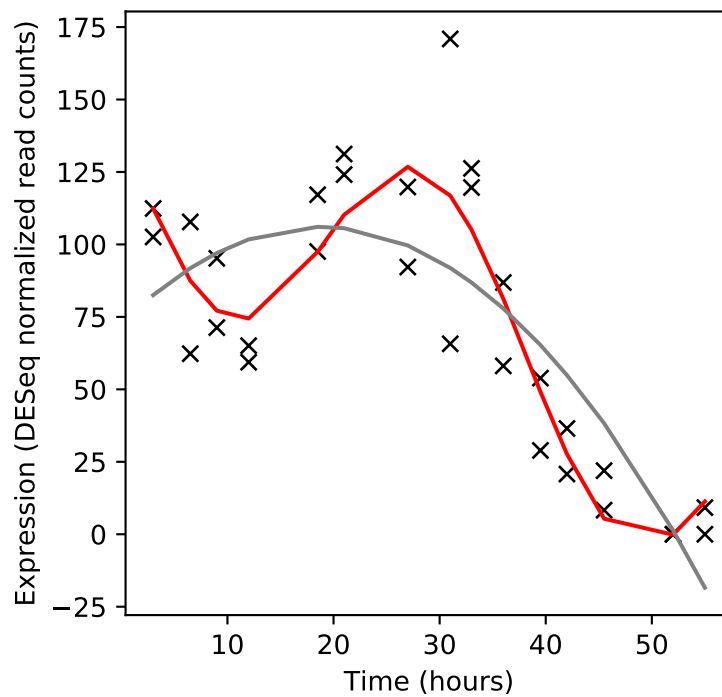
Rv0157/pntB



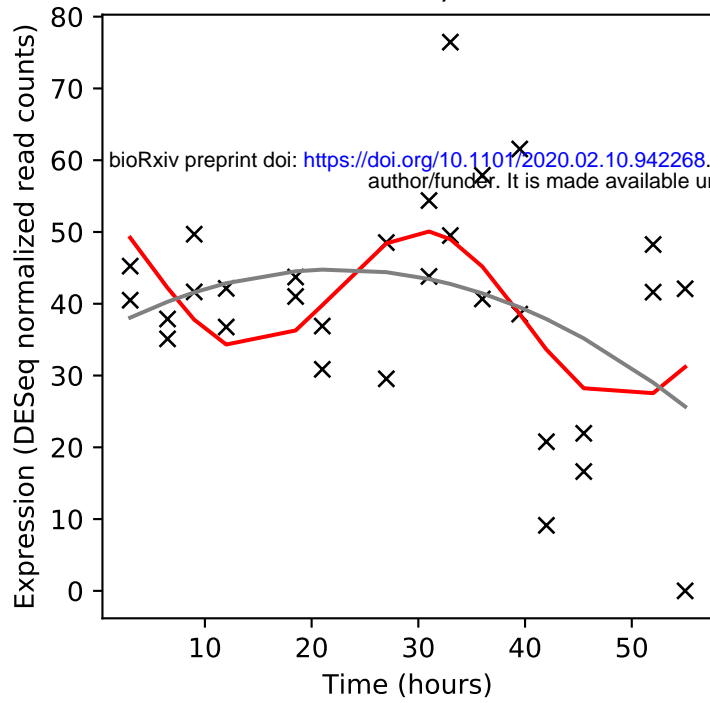
Rv0157A/-



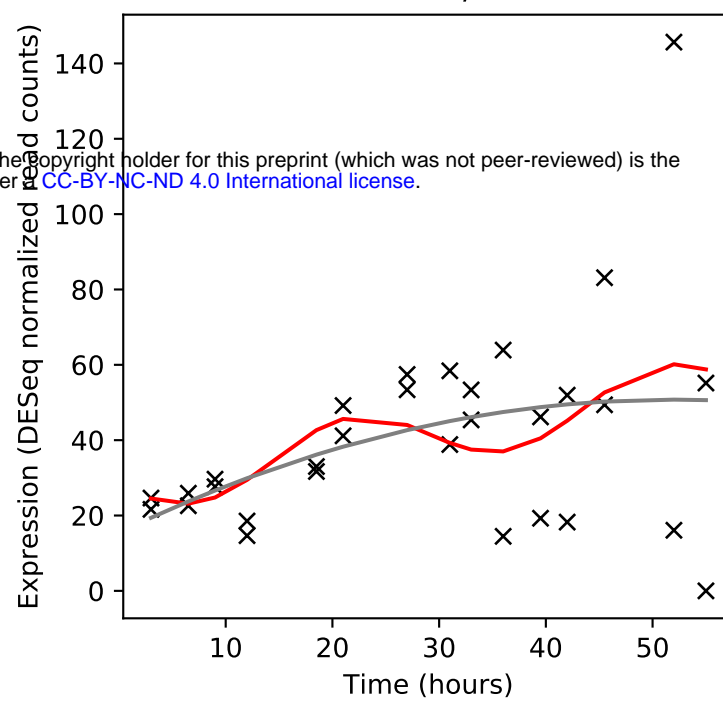
Rv0158/-



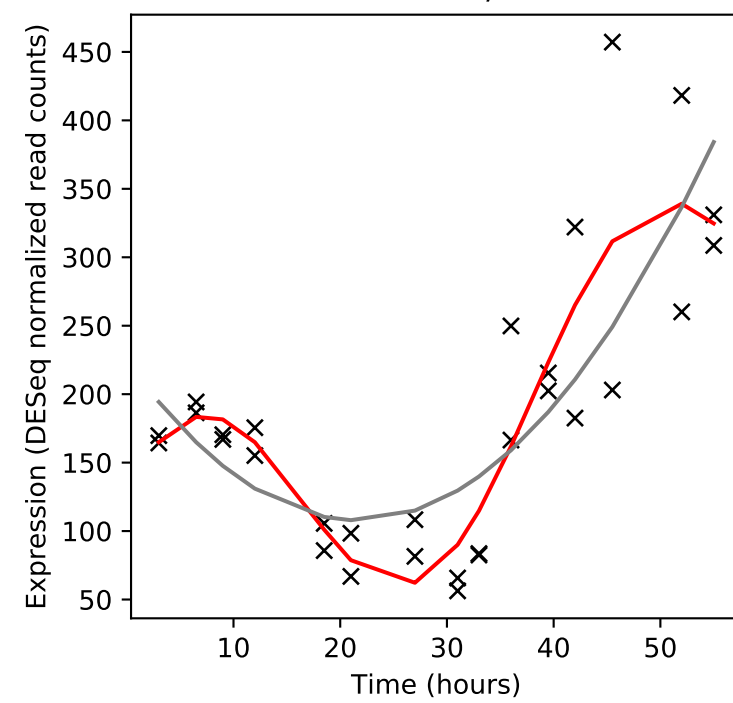
Rv0159c/PE3



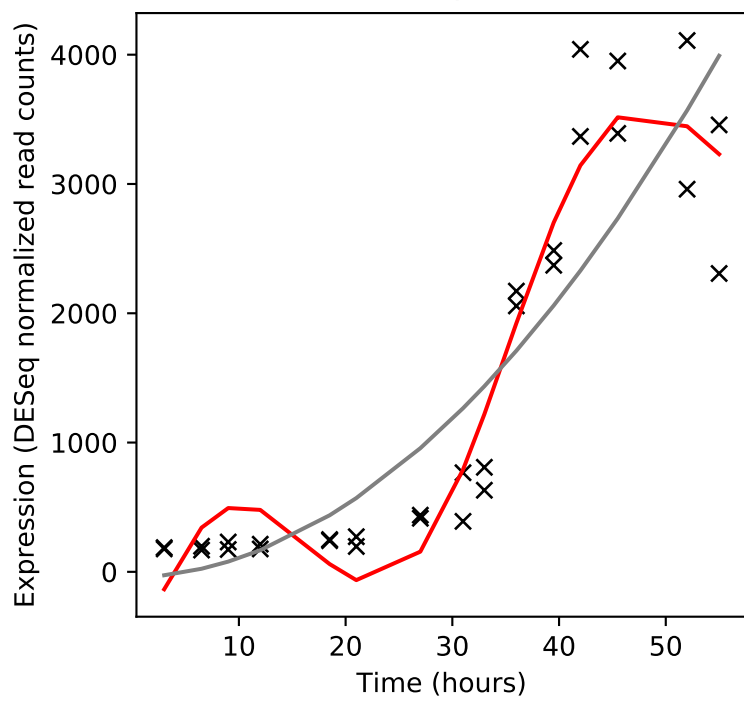
Rv0160c/PE4



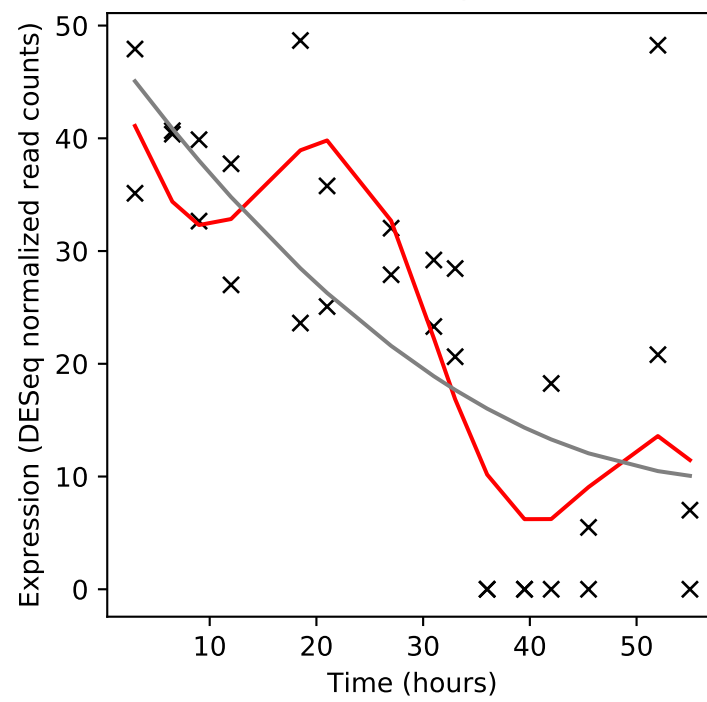
Rv0161/-



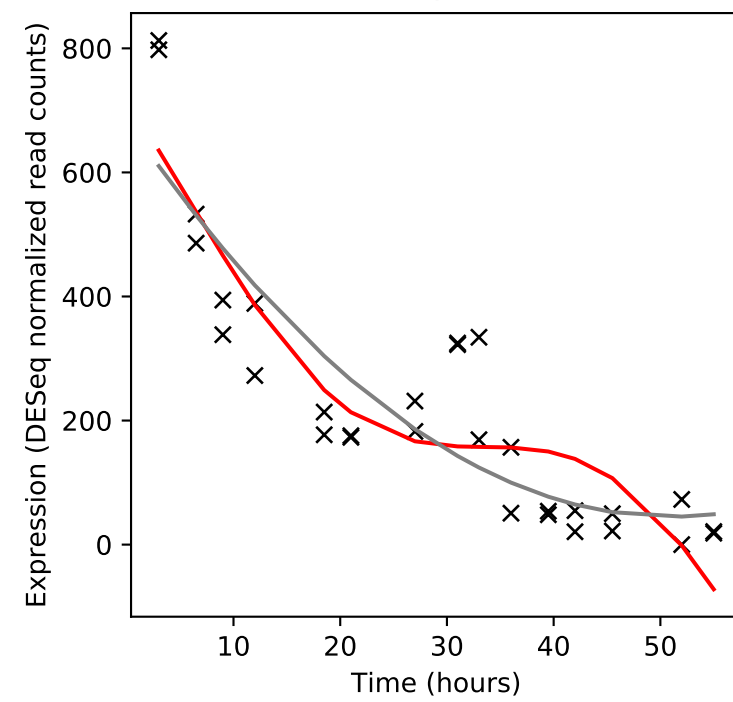
Rv0162c/adhE1



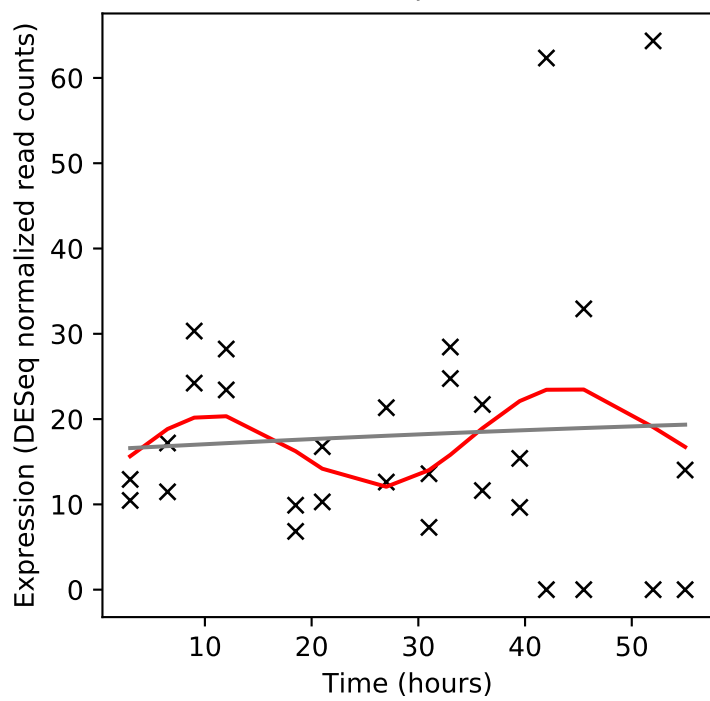
Rv0163/-



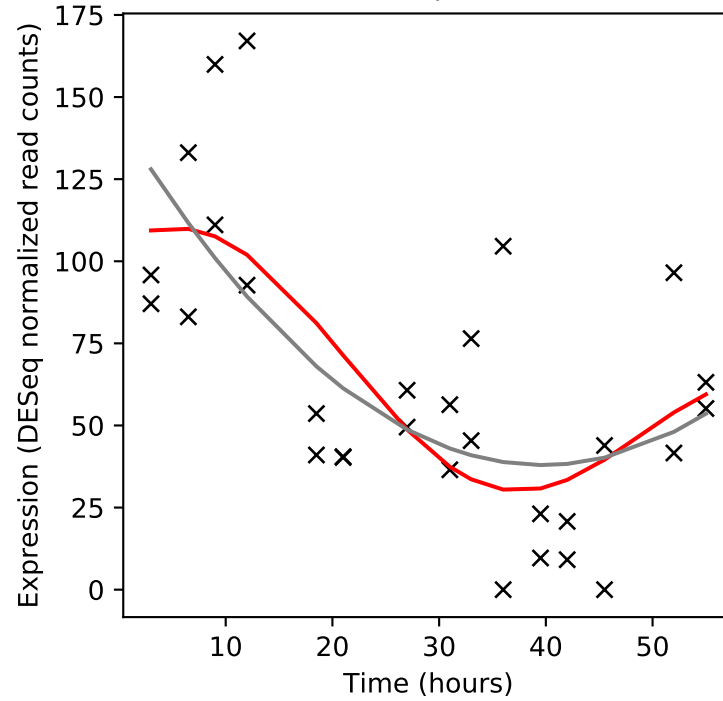
Rv0164/TB18.5



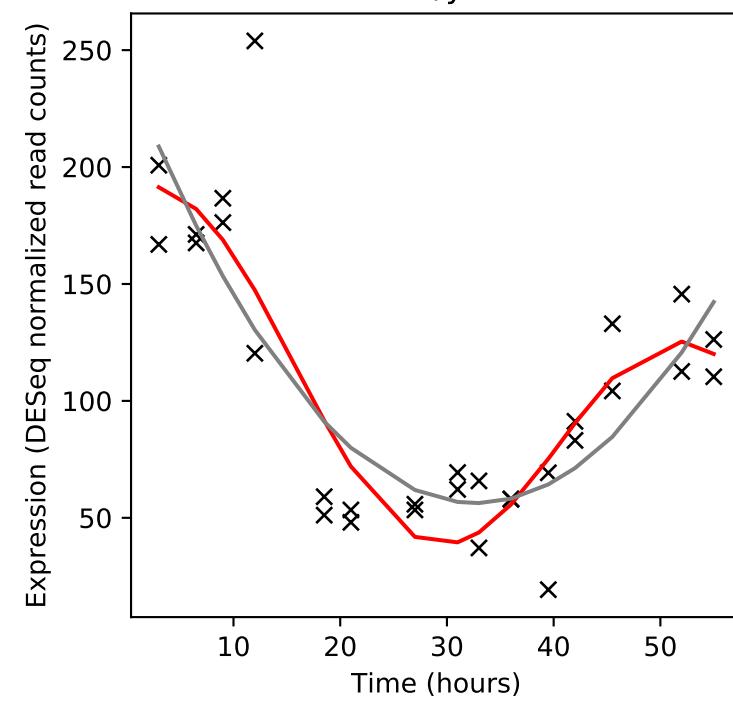
Rv0165c/mce1R



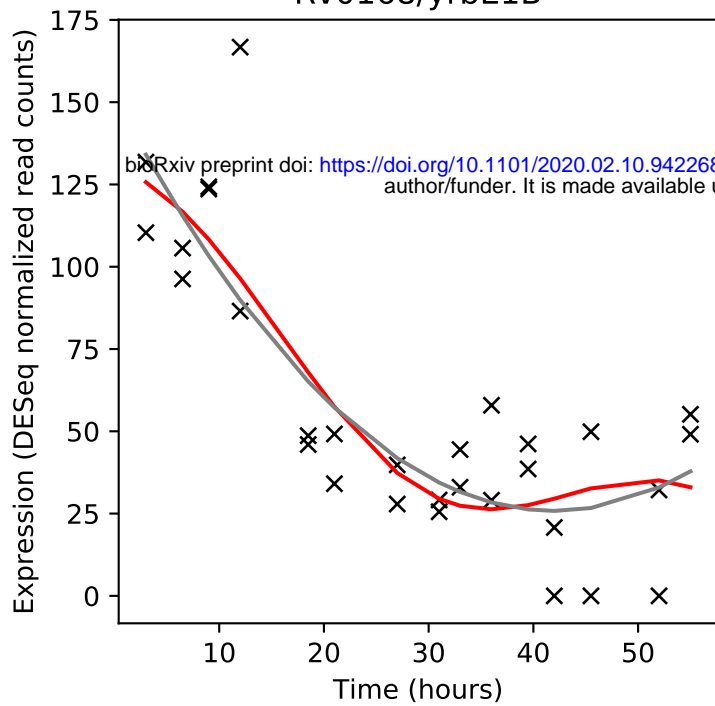
Rv0166/fadD5



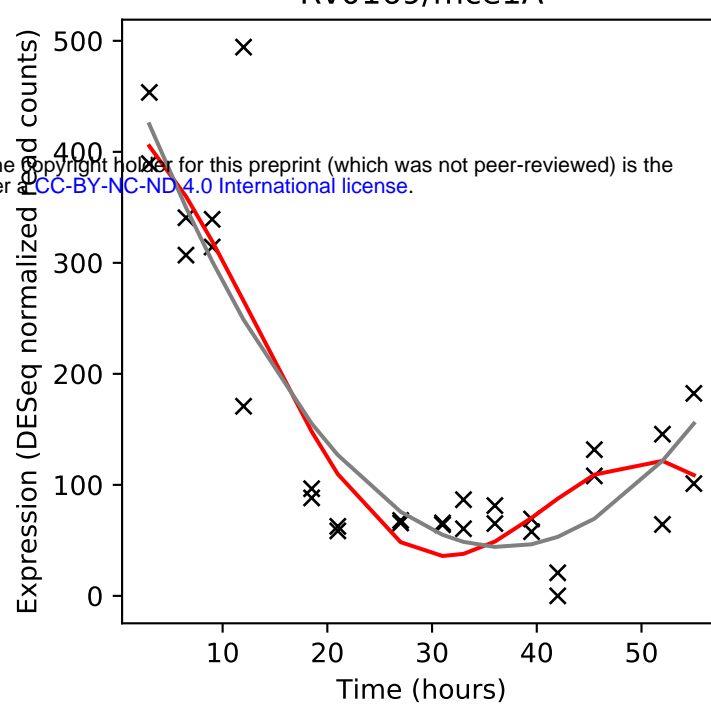
Rv0167/yrbE1A



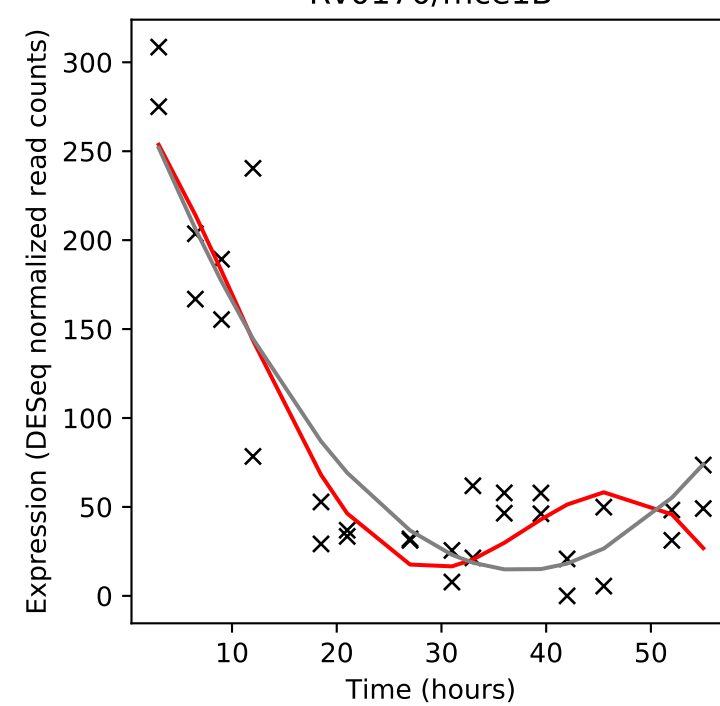
Rv0168/yrbE1B



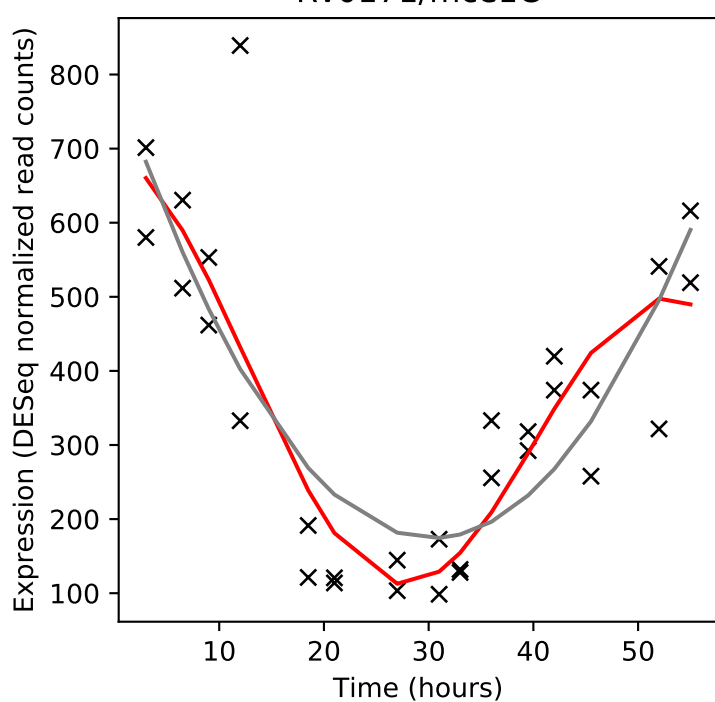
Rv0169/mce1A



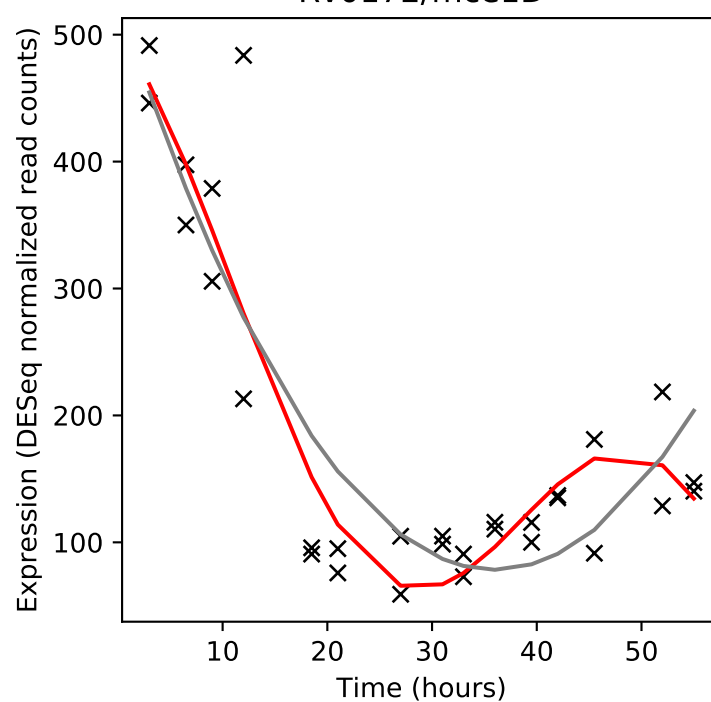
Rv0170/mce1B



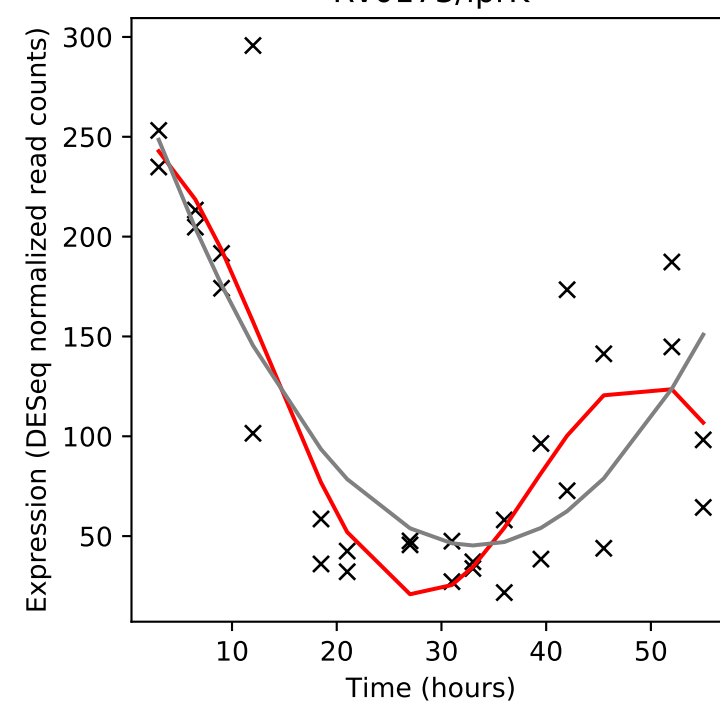
Rv0171/mce1C



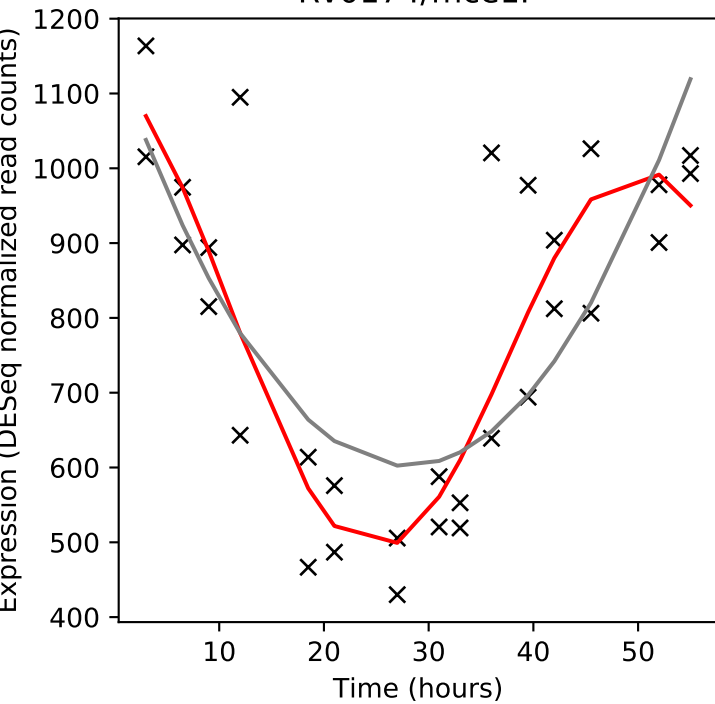
Rv0172/mce1D



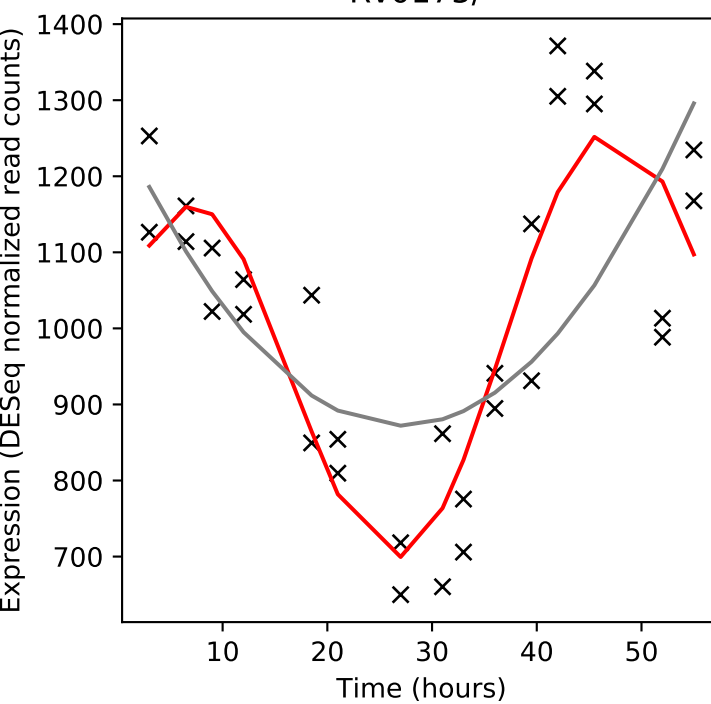
Rv0173/lprK



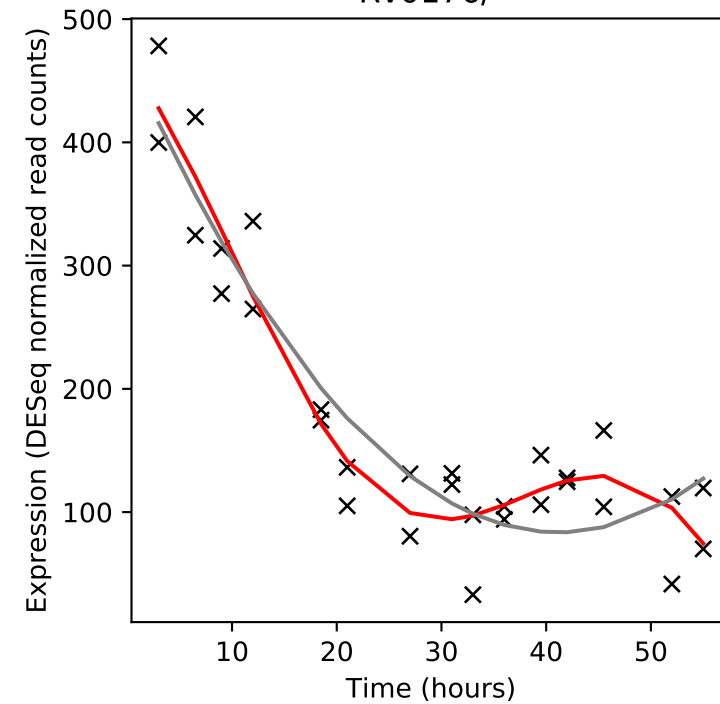
Rv0174/mce1F



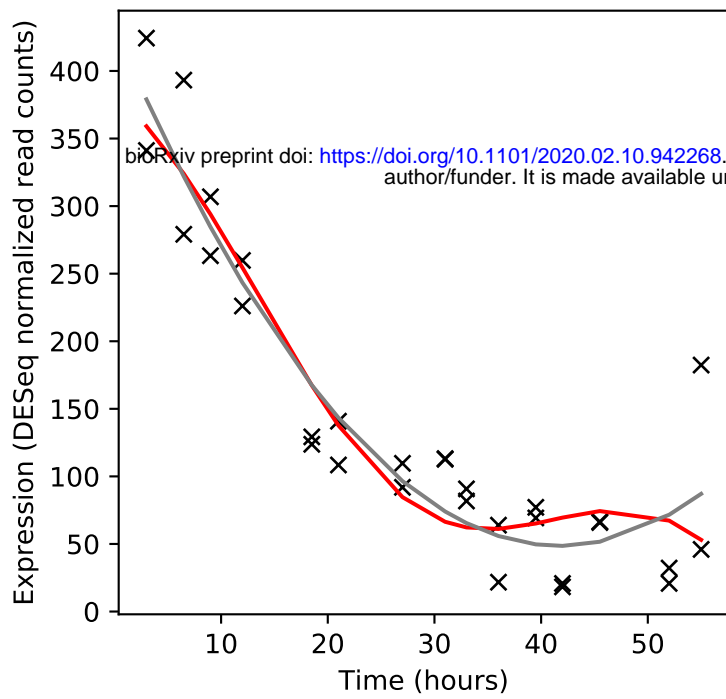
Rv0175/-



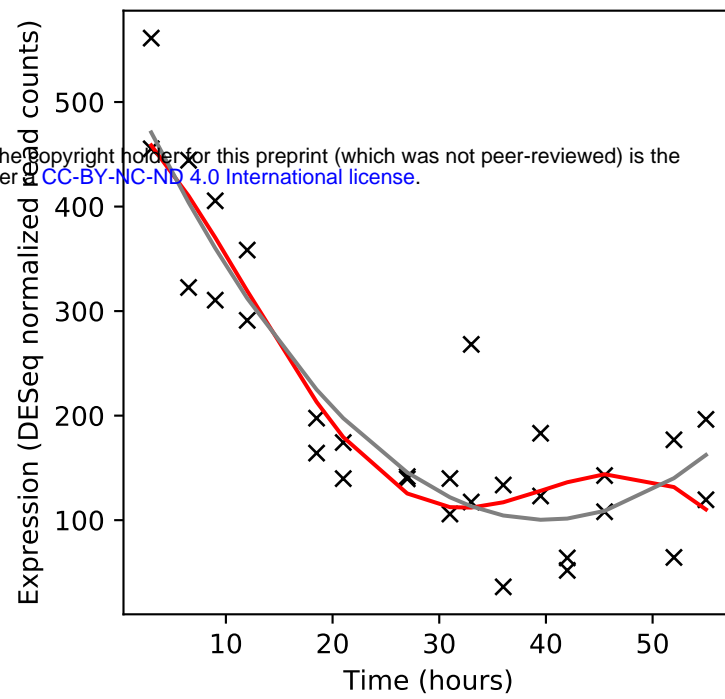
Rv0176/-



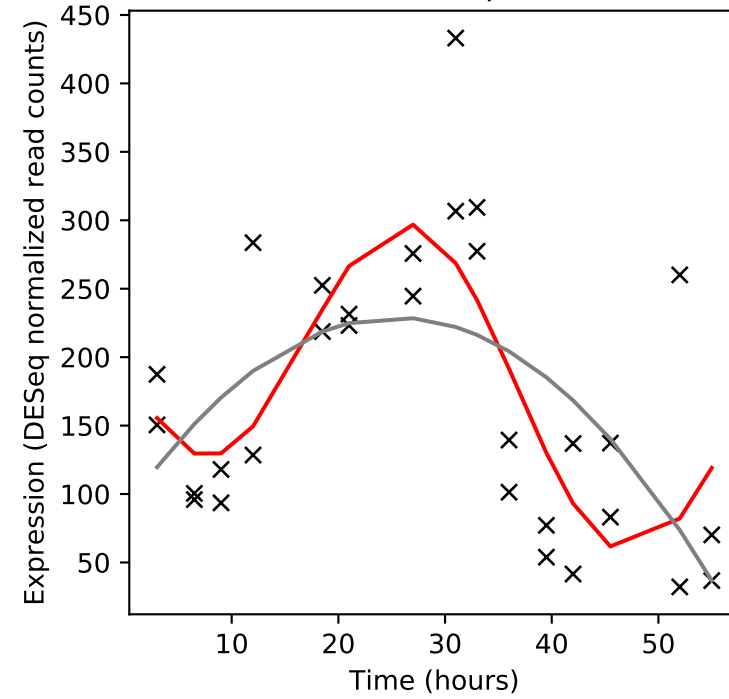
Rv0177/-



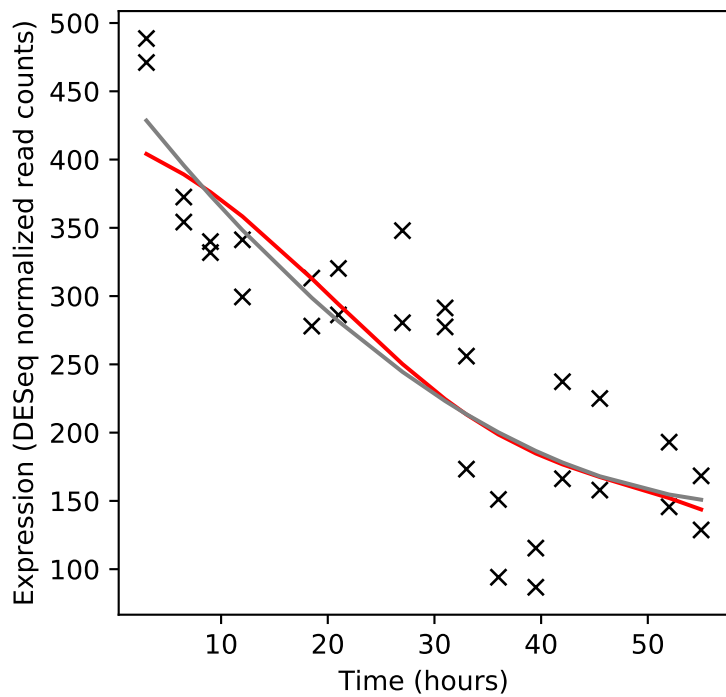
Rv0178/-



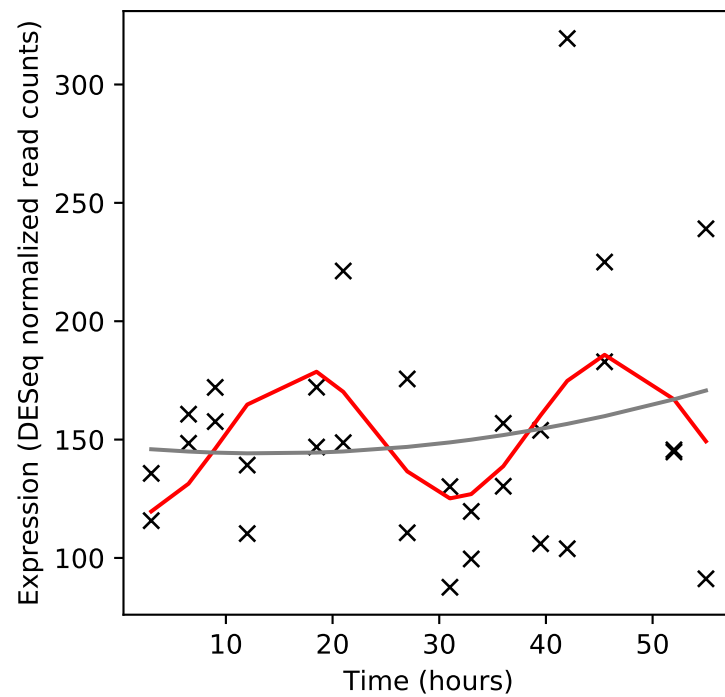
Rv0179c/lprO



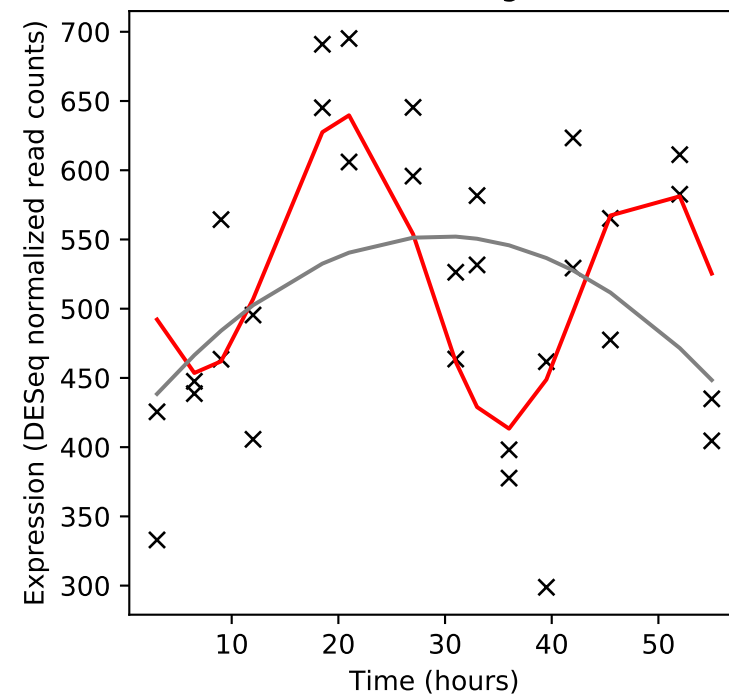
Rv0180c/-



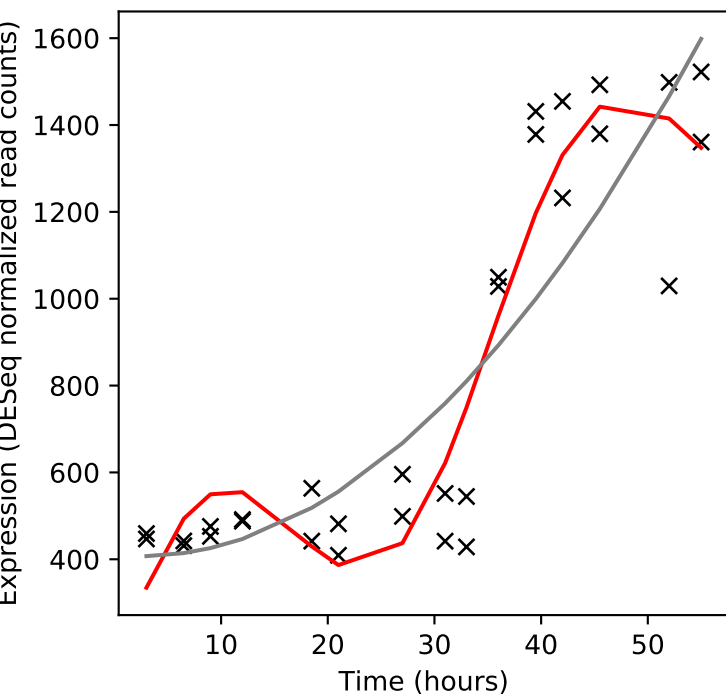
Rv0181c/-



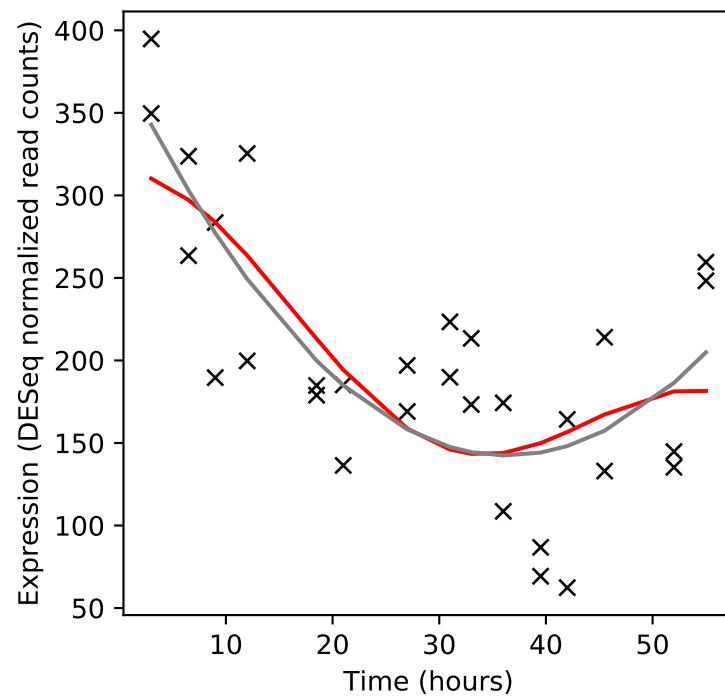
Rv0182c/sigG



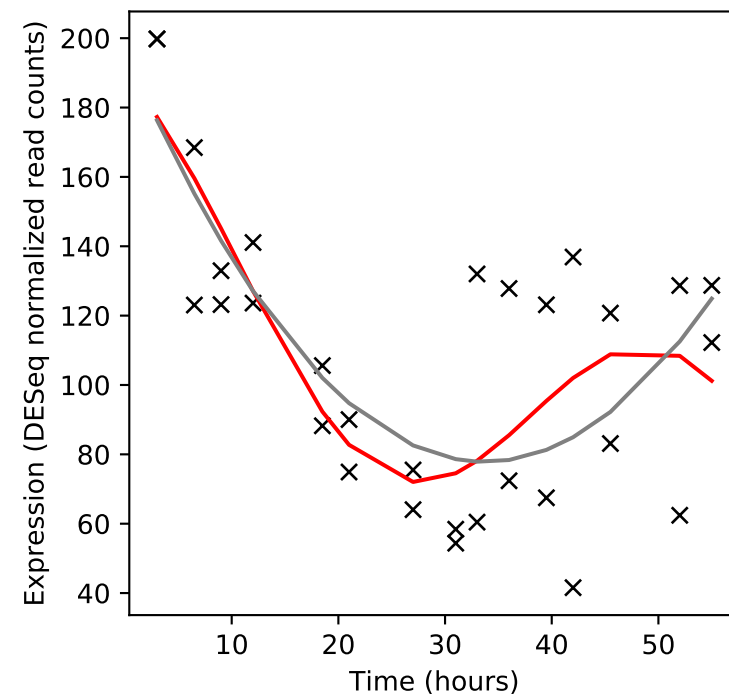
Rv0183/-



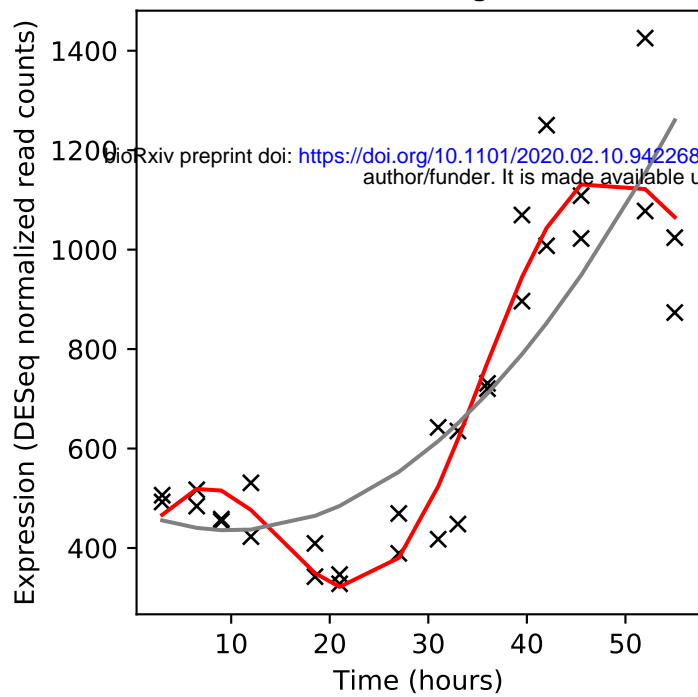
Rv0184/-



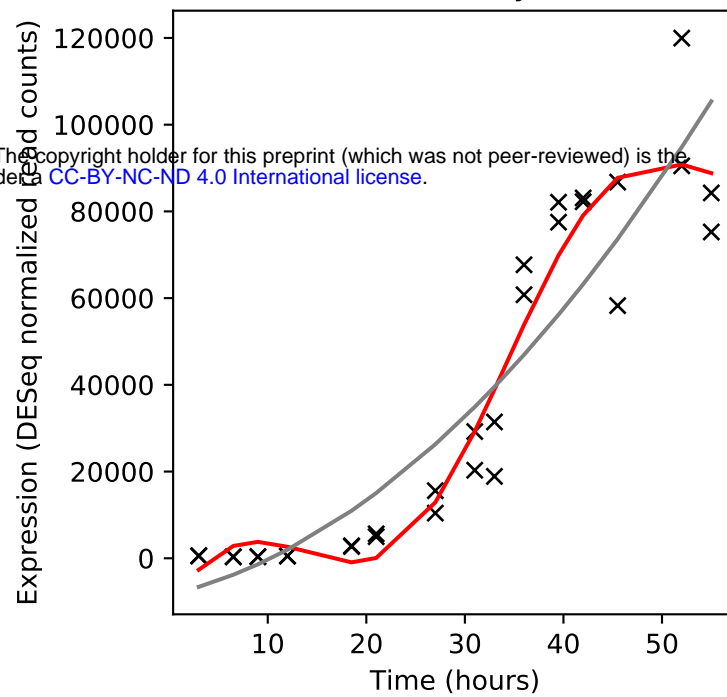
Rv0185/-



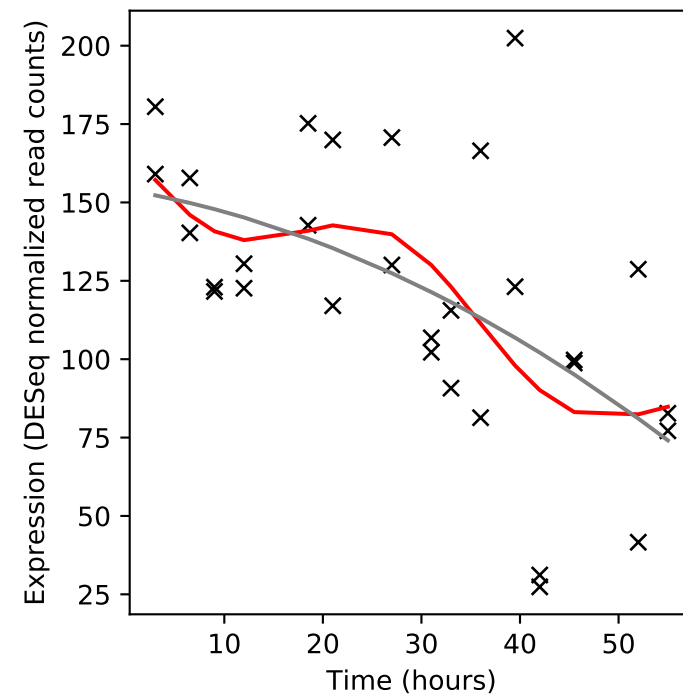
Rv0186/bgIS



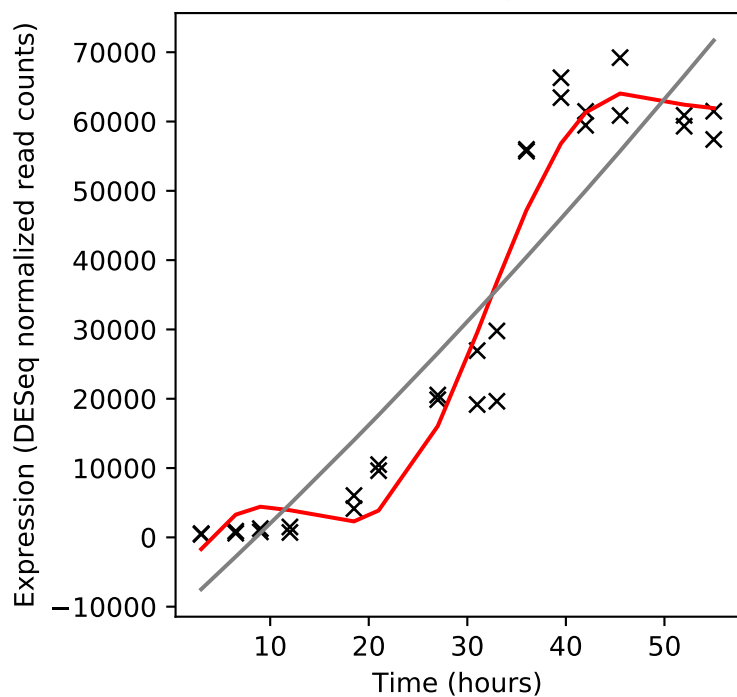
Rv0186A/mymT



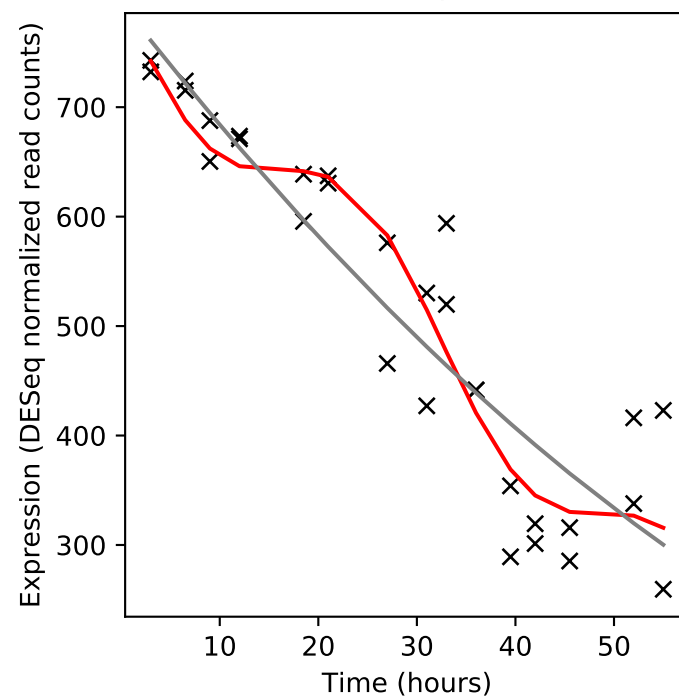
Rv0187/-



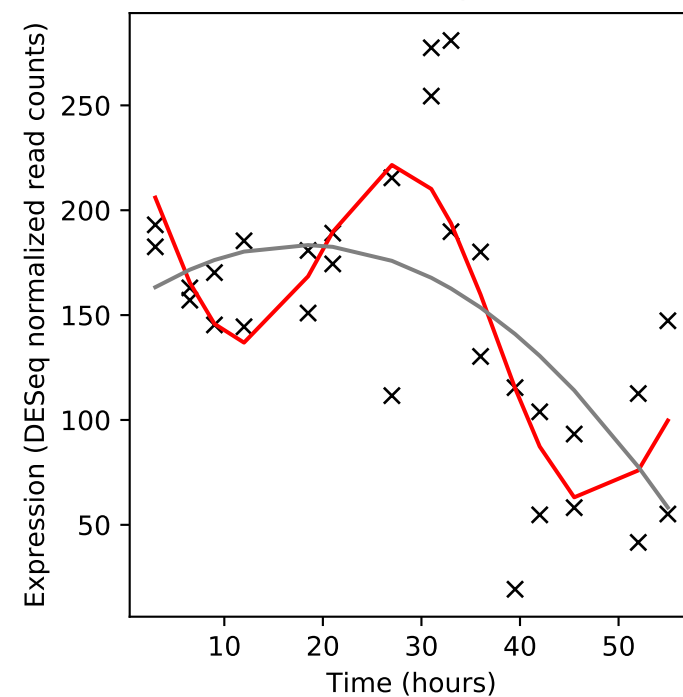
Rv0188/-



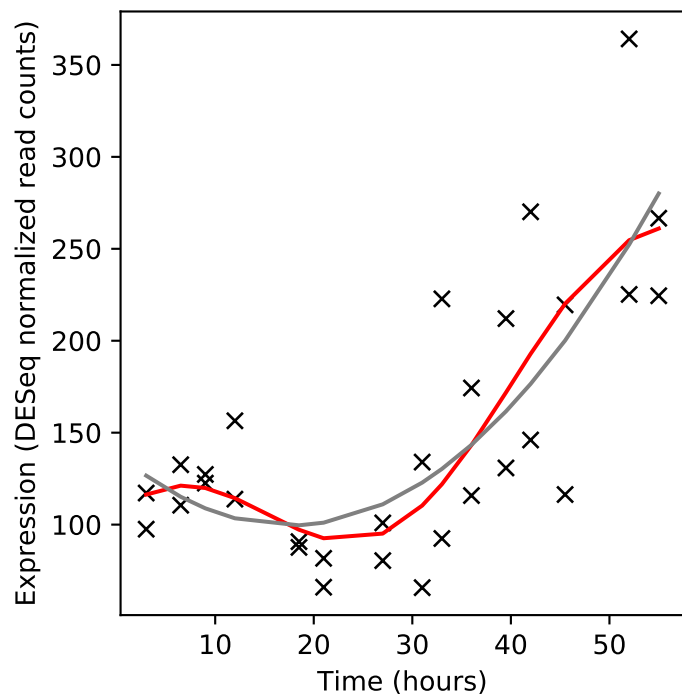
Rv0189c/ilvD



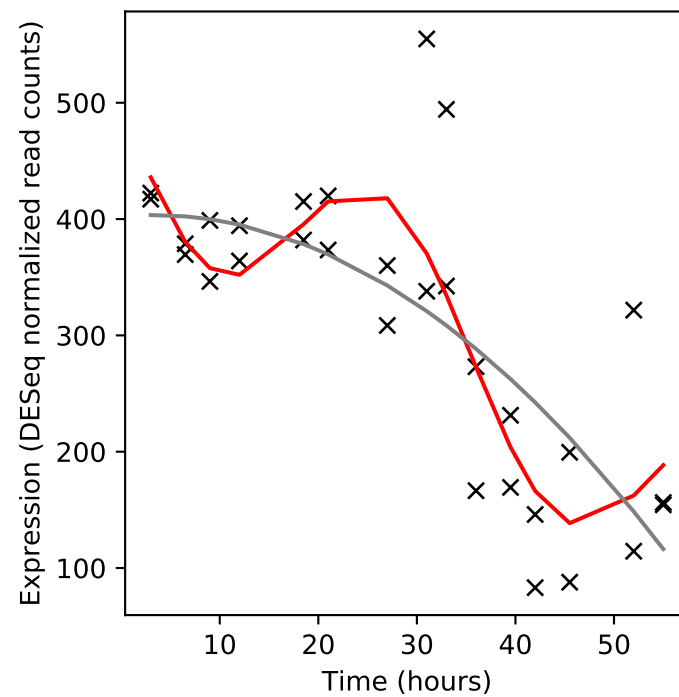
Rv0190/-



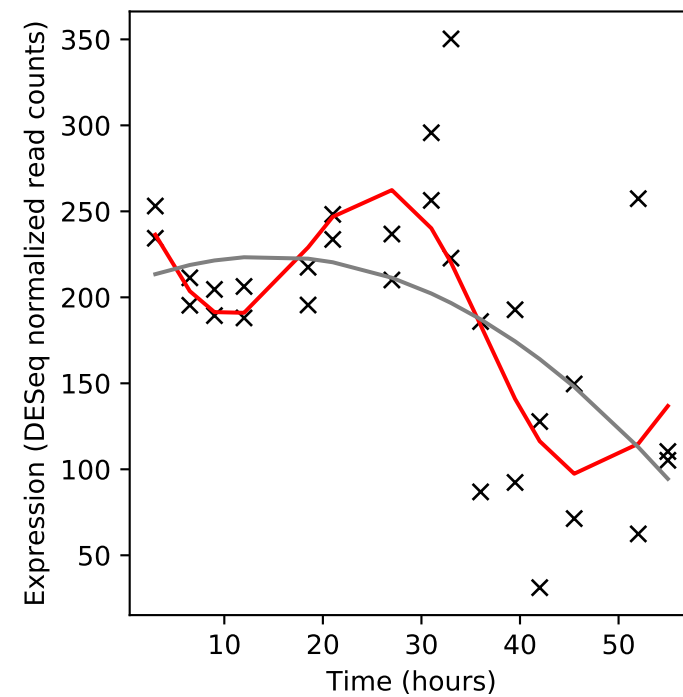
Rv0191/-



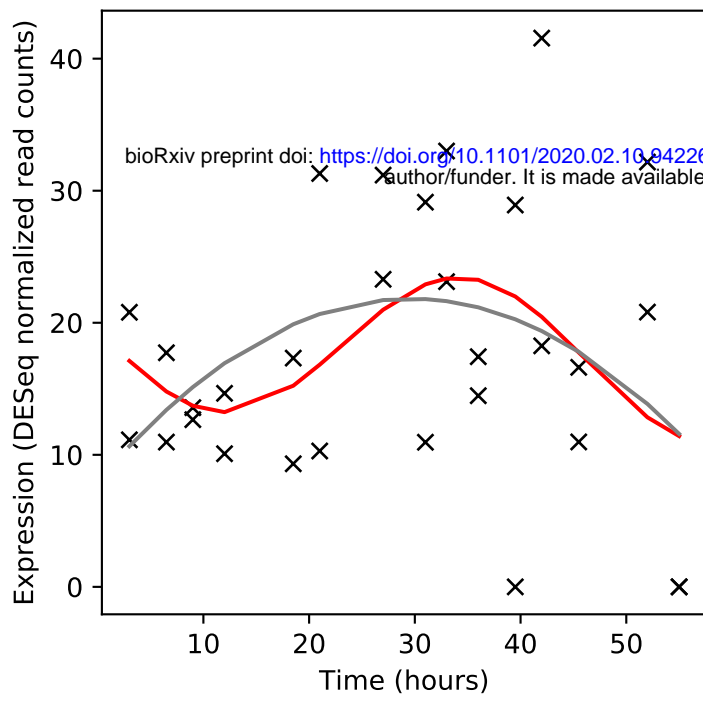
Rv0192/-



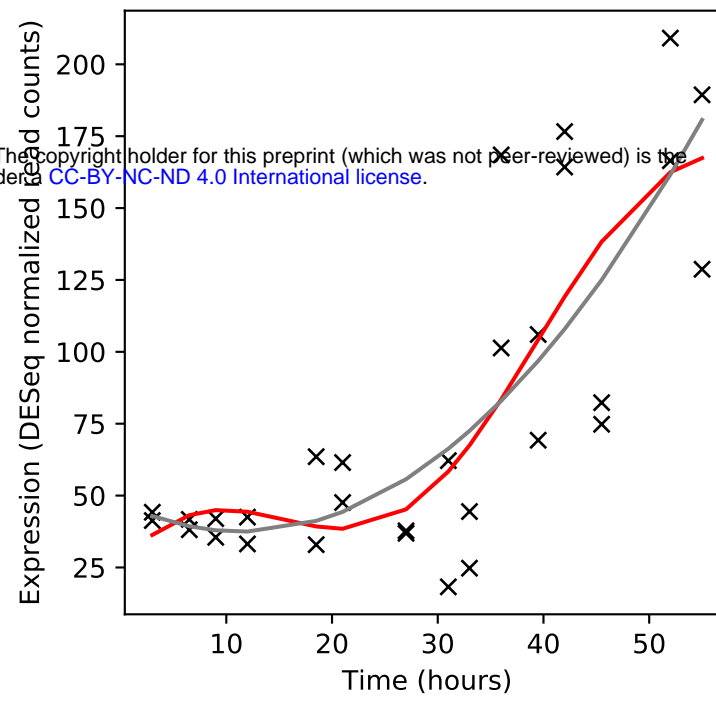
Rv0192A/-



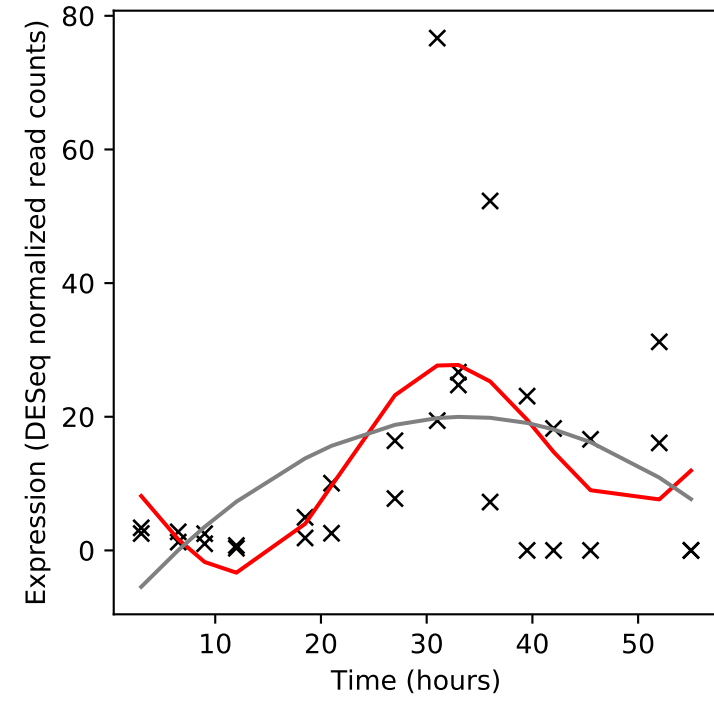
Rv0193c/-



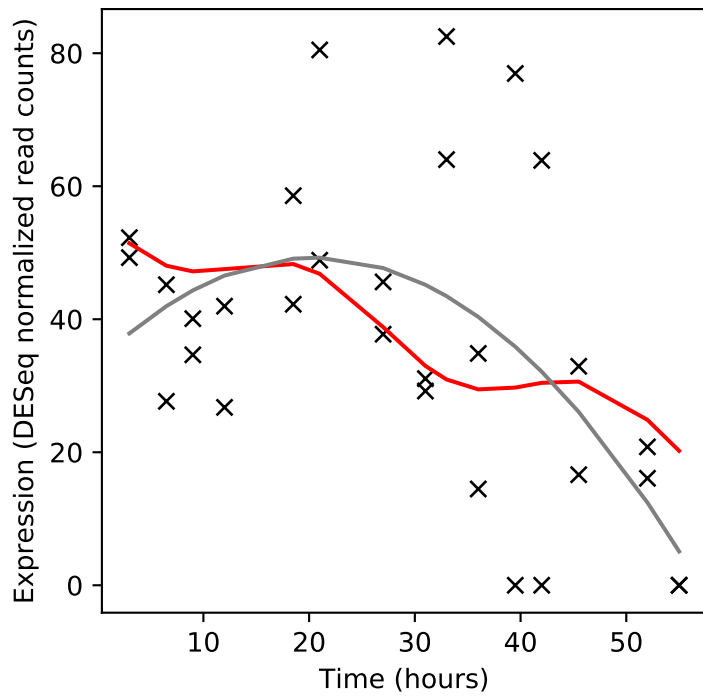
Rv0194/-



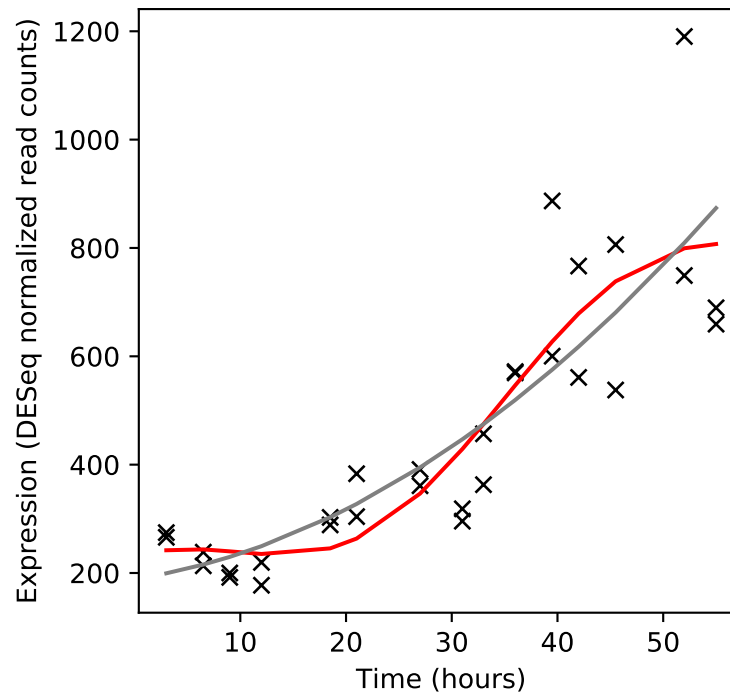
Rv0195/-



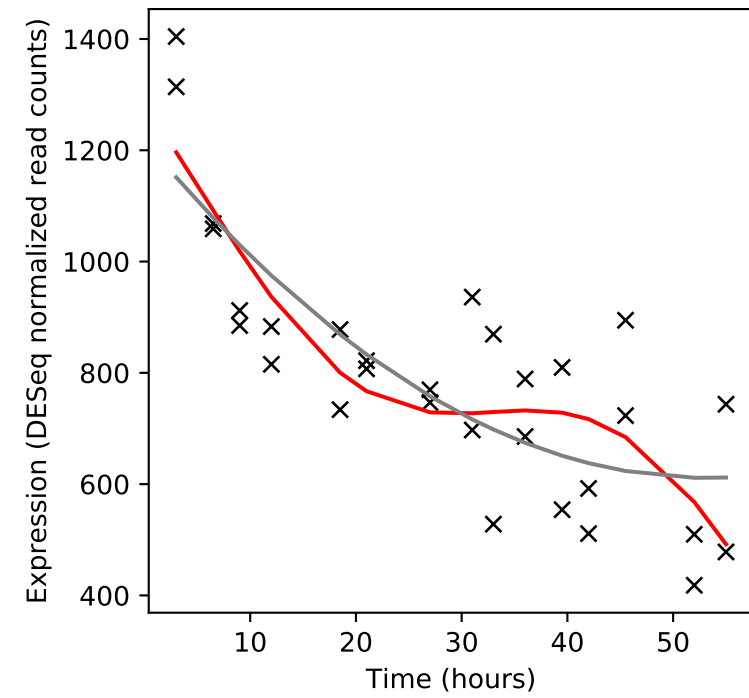
Rv0196/-



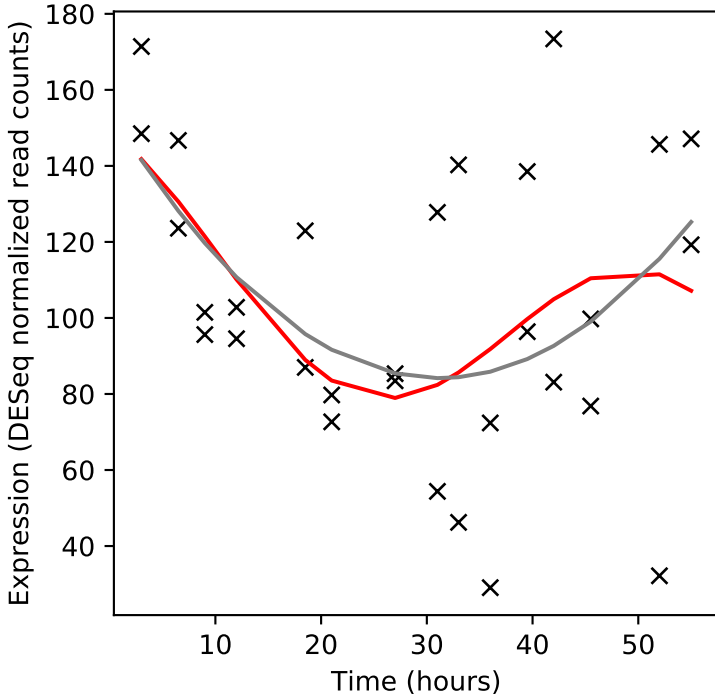
Rv0197/-



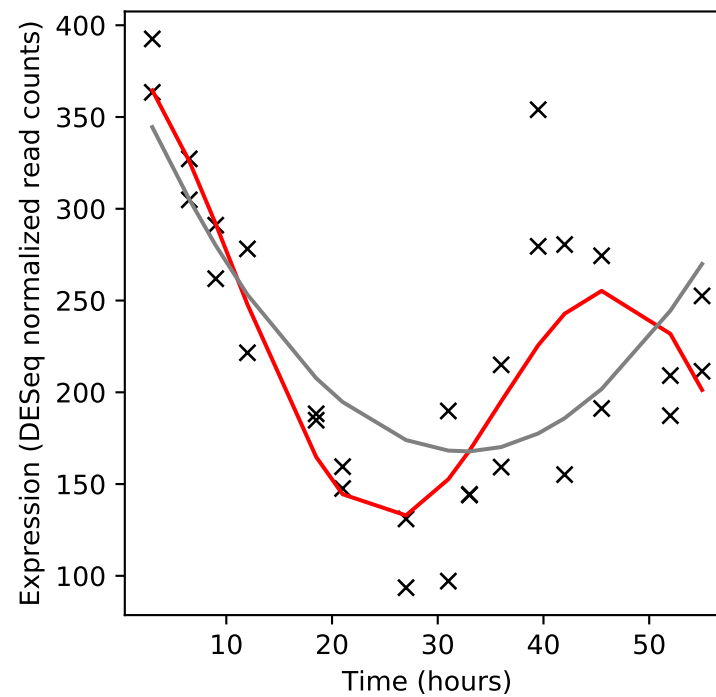
Rv0198c/zmp1



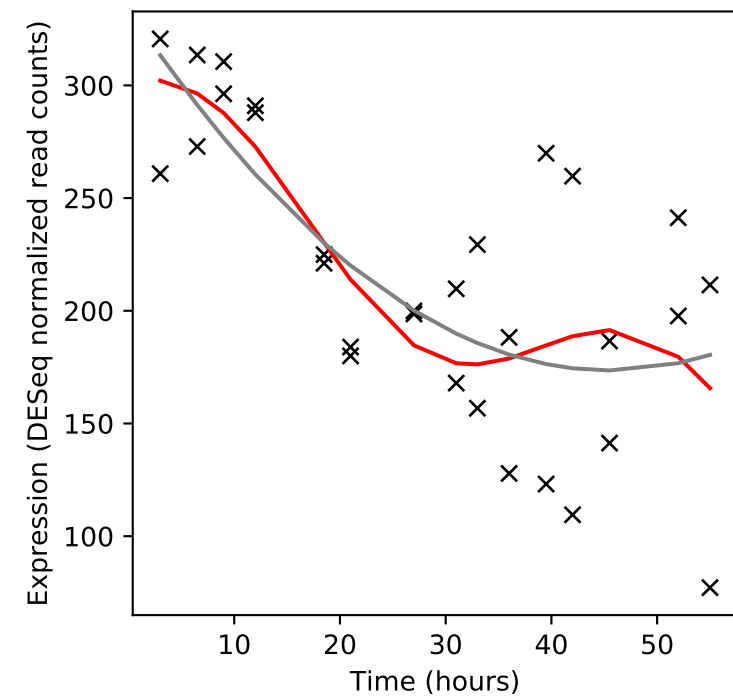
Rv0199/-



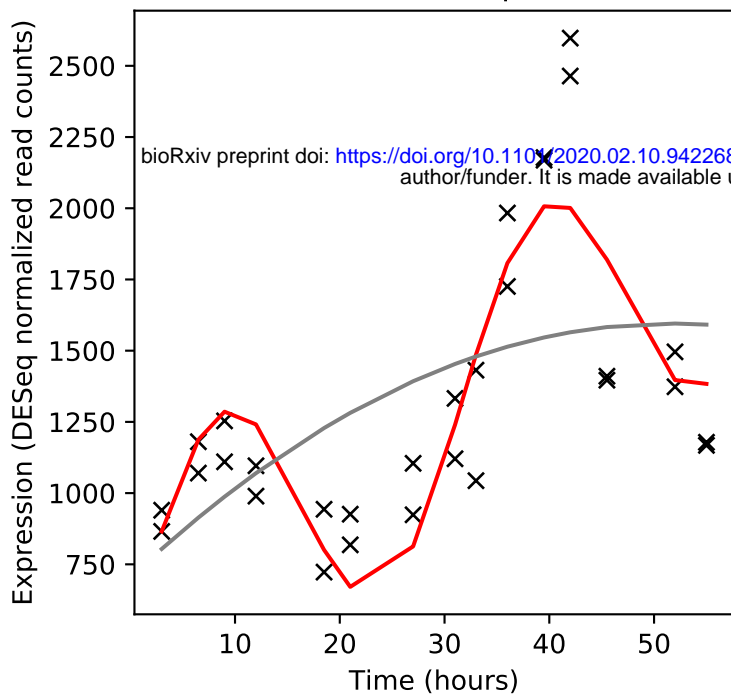
Rv0200/-



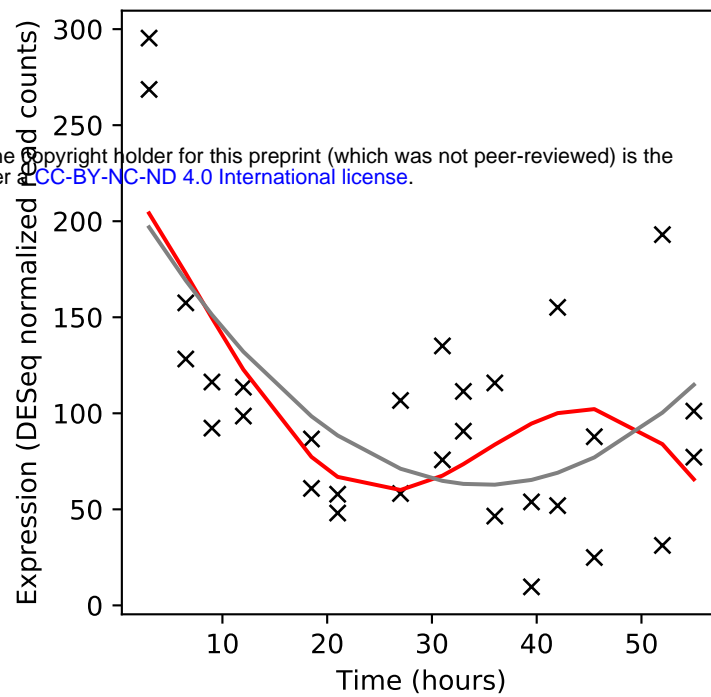
Rv0201c/-



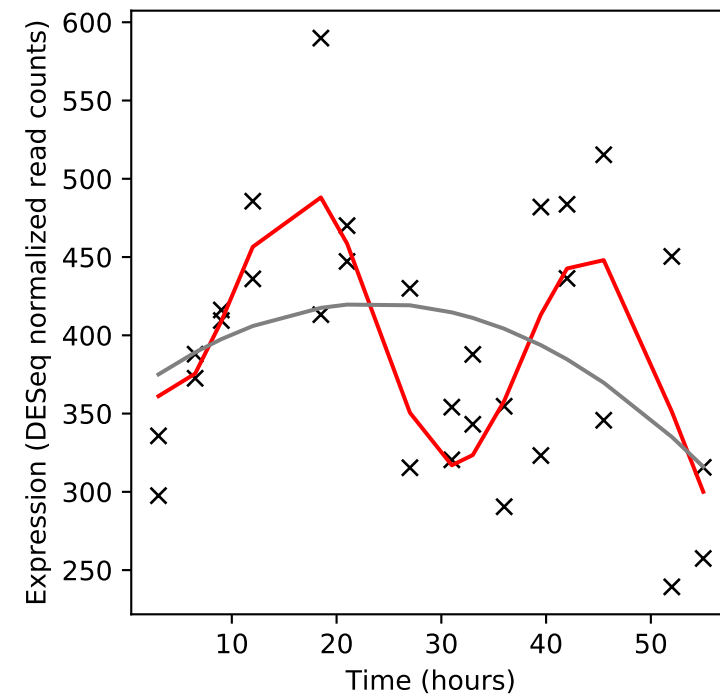
Rv0202c/mmpL1



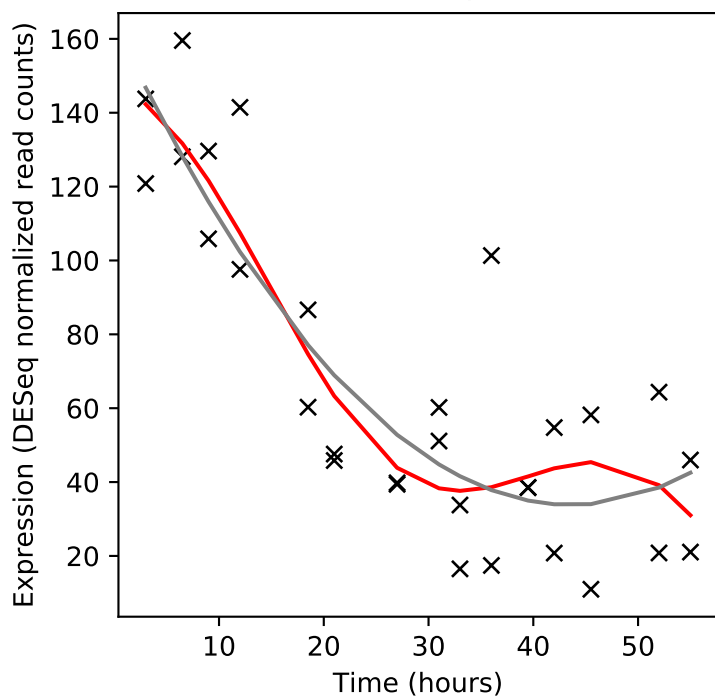
Rv0203/-



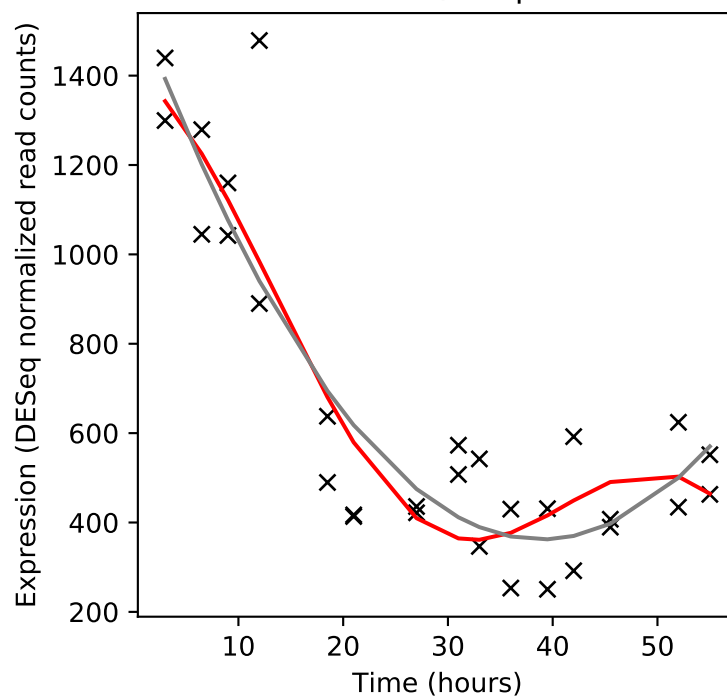
Rv0204c/-



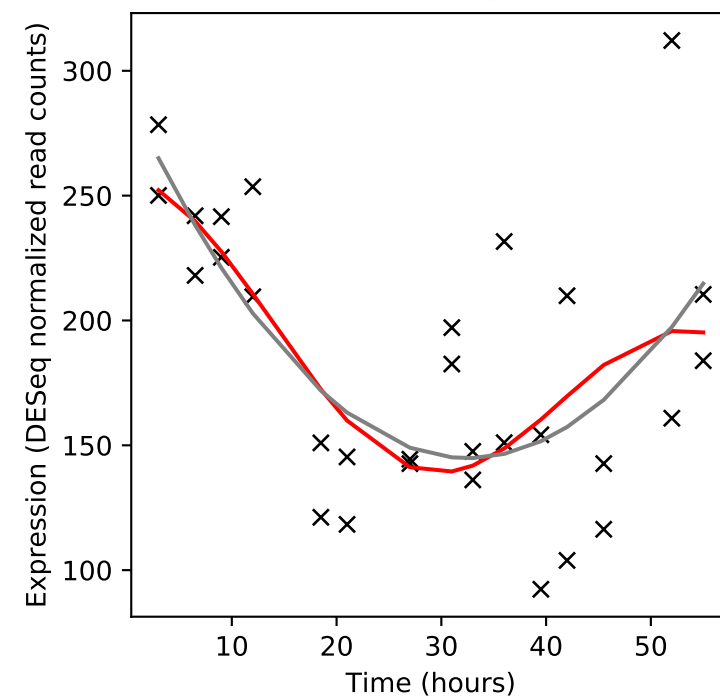
Rv0205/-



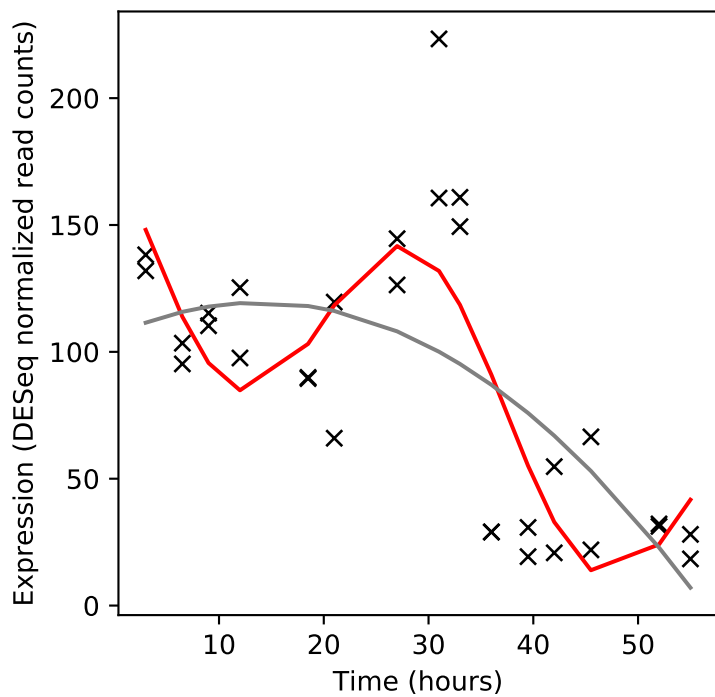
Rv0206c/mmpL3



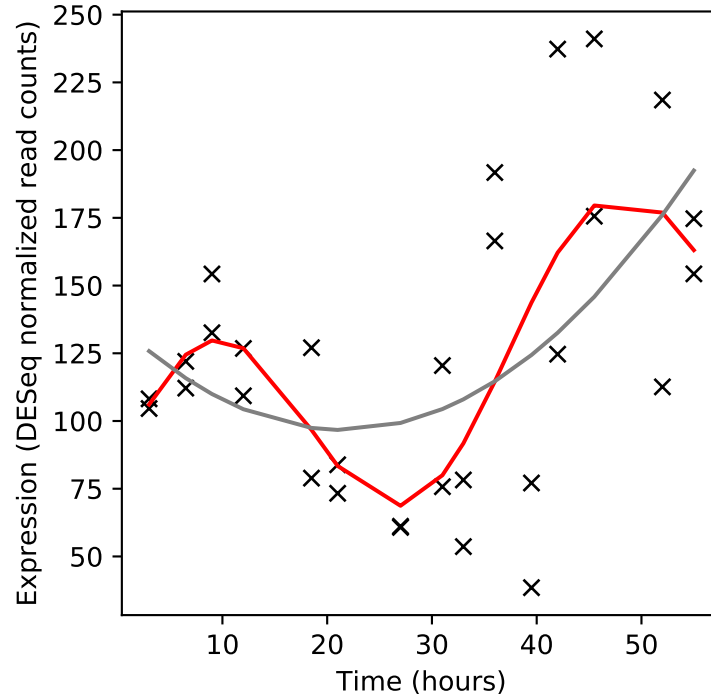
Rv0207c/-



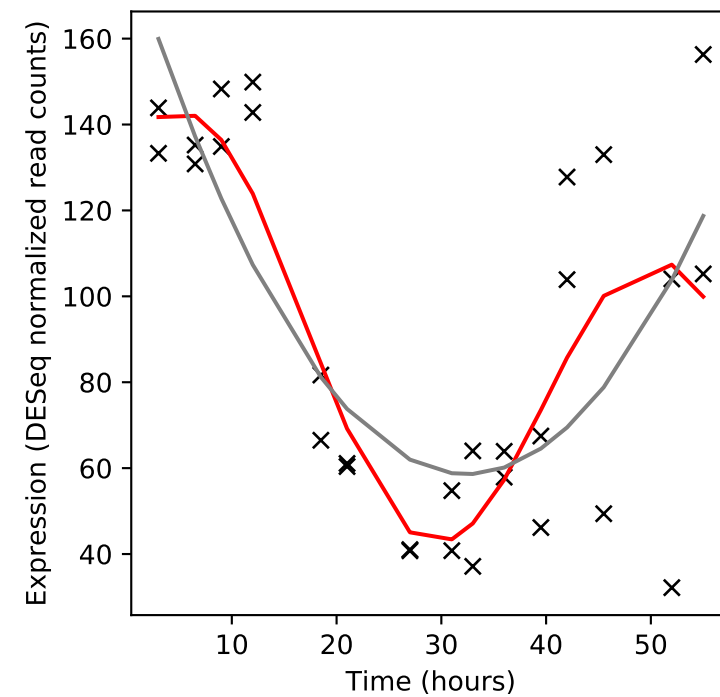
Rv0208c/-



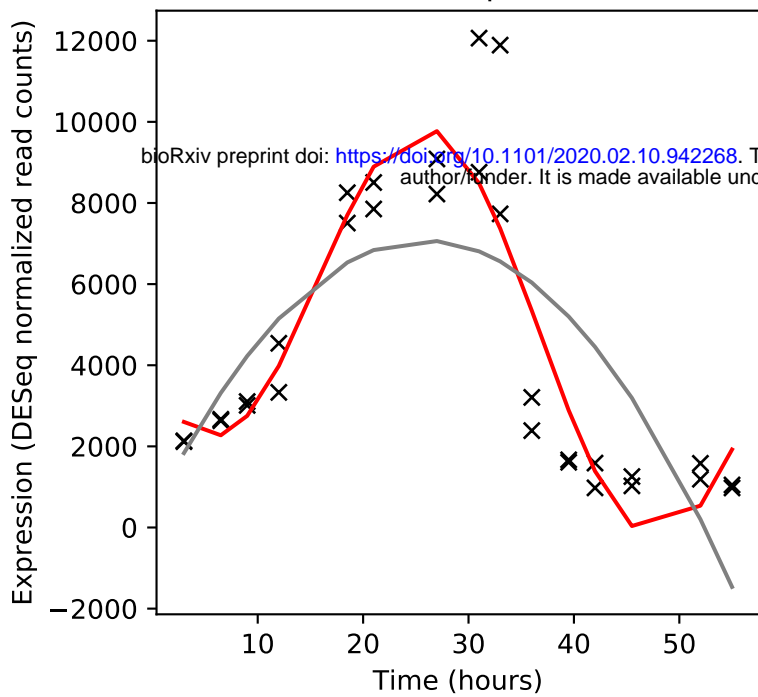
Rv0209/-



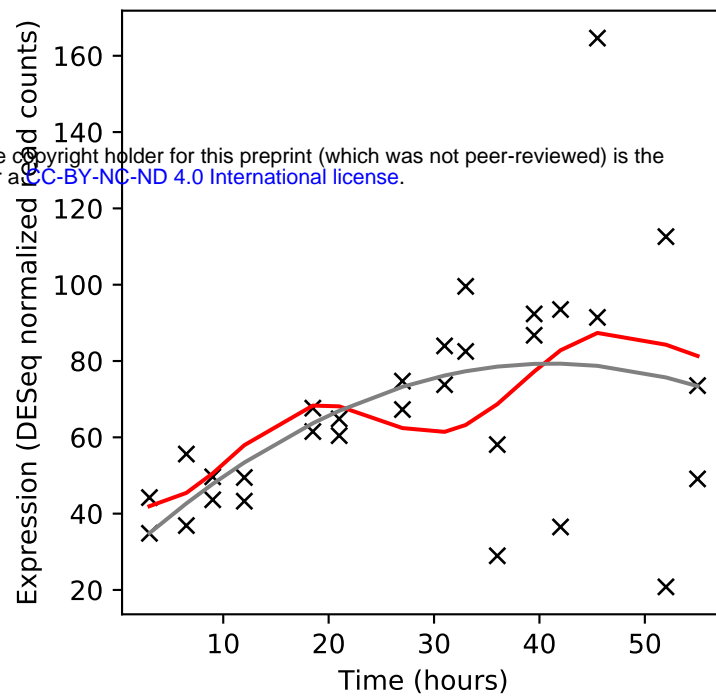
Rv0210/-



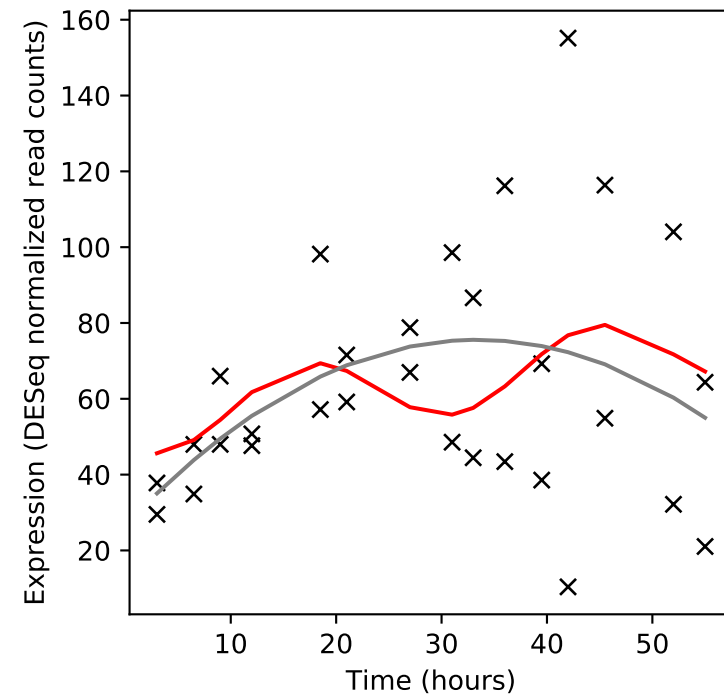
Rv0211/pckA



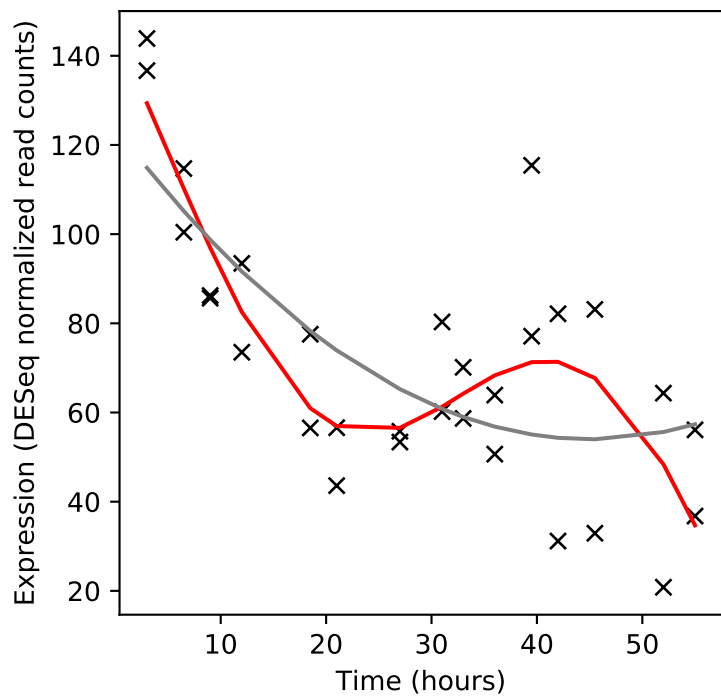
Rv0212c/nadR



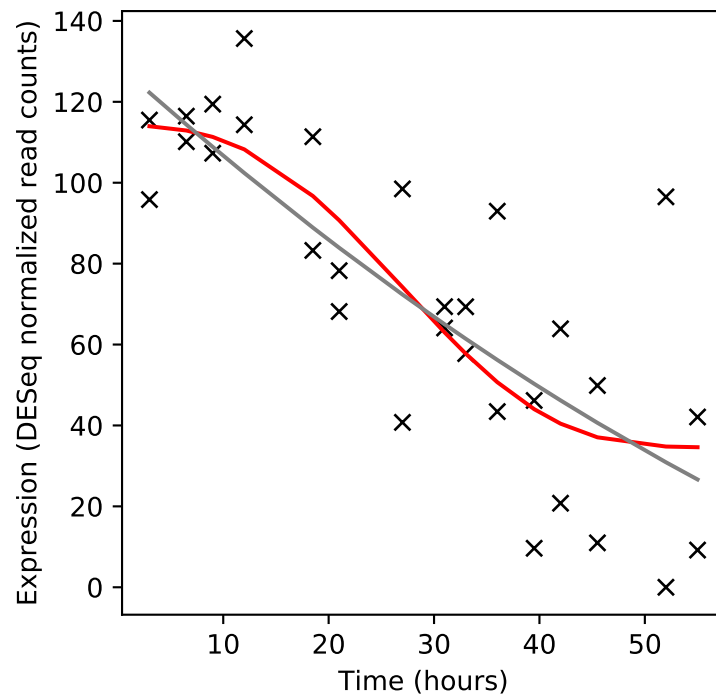
Rv0213c/-



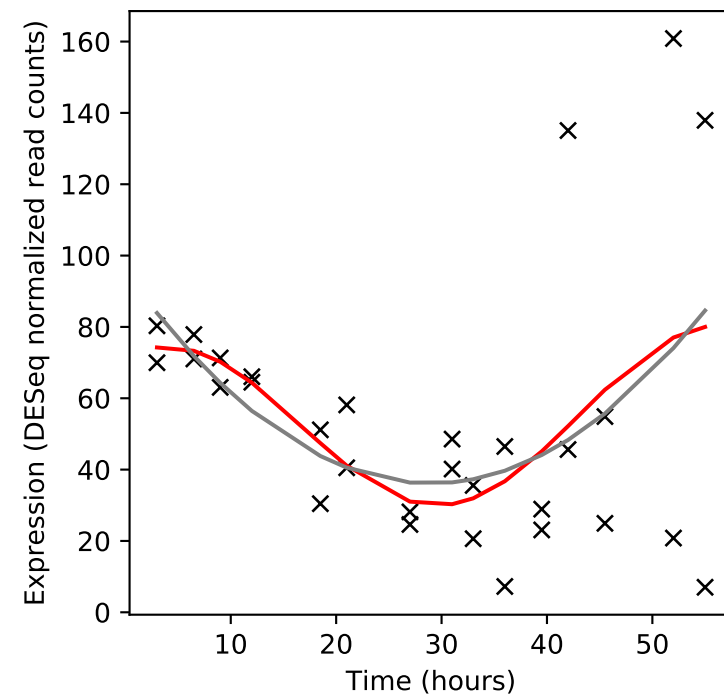
Rv0214/fadD4



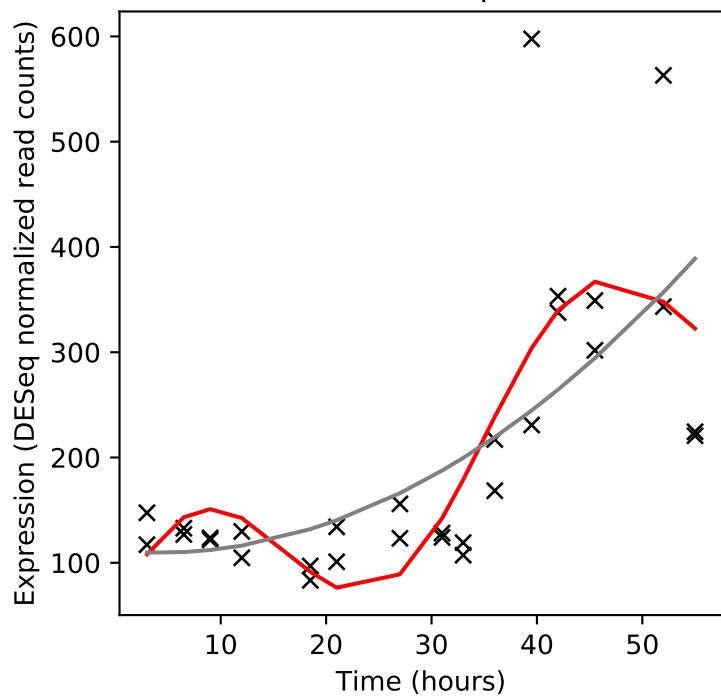
Rv0215c/fadE3



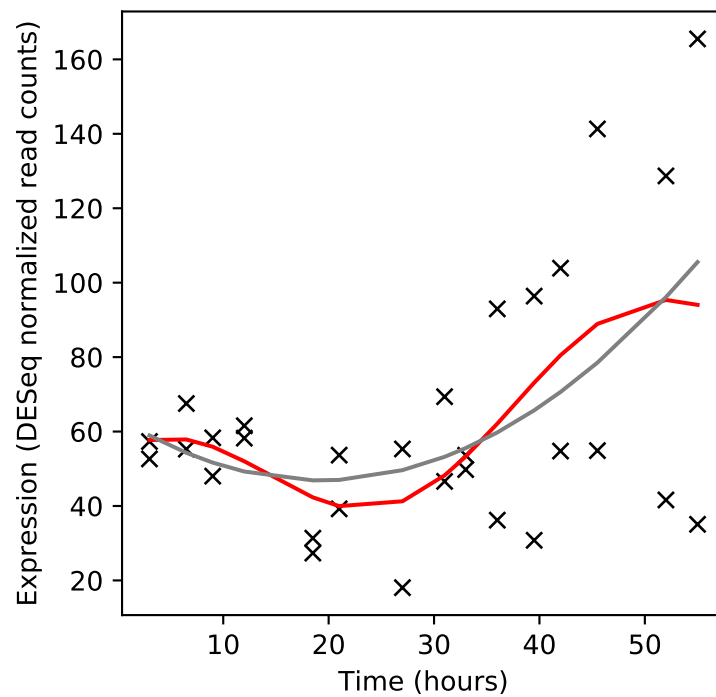
Rv0216/-



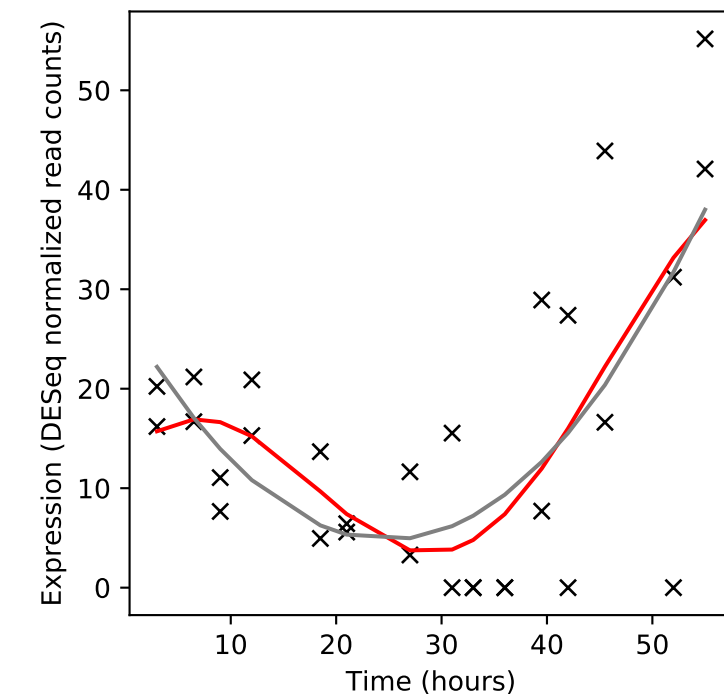
Rv0217c/lipW



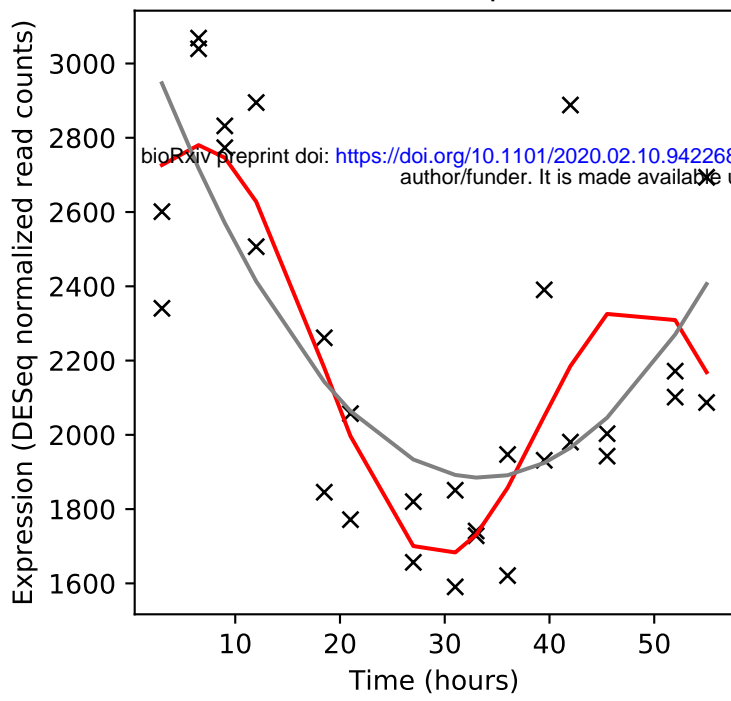
Rv0218/-



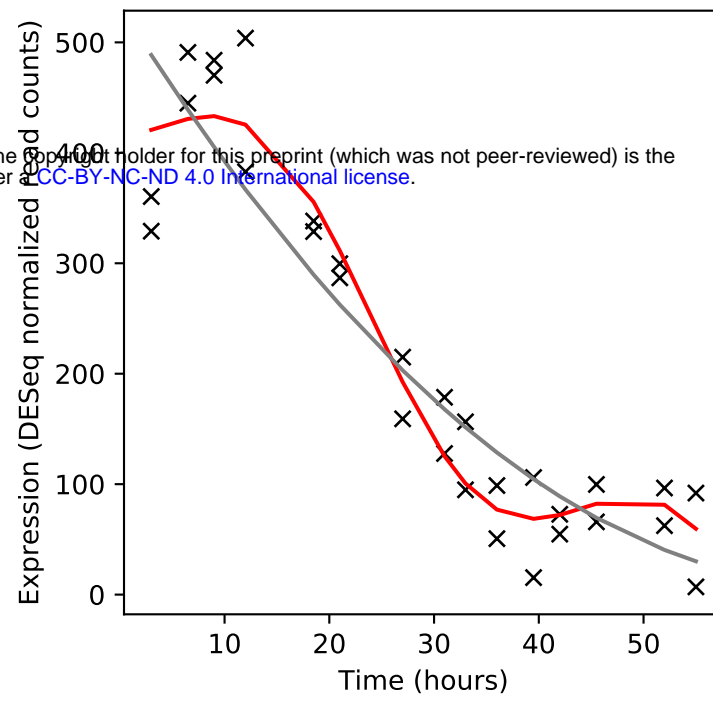
Rv0219/-



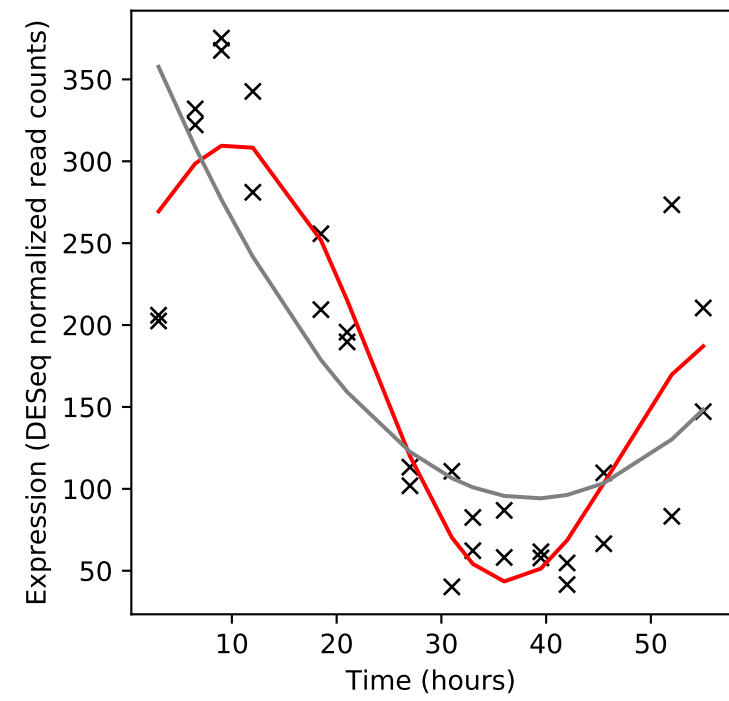
Rv0220/lipC



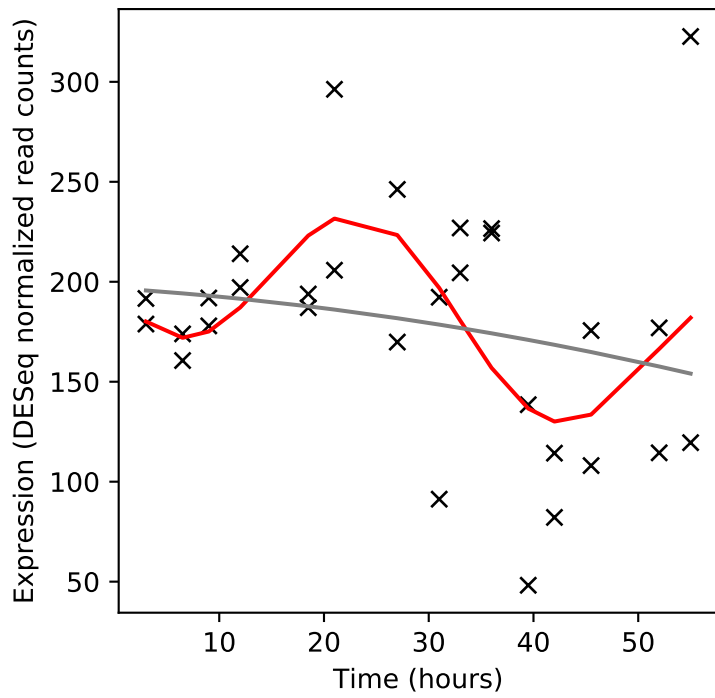
Rv0221/-



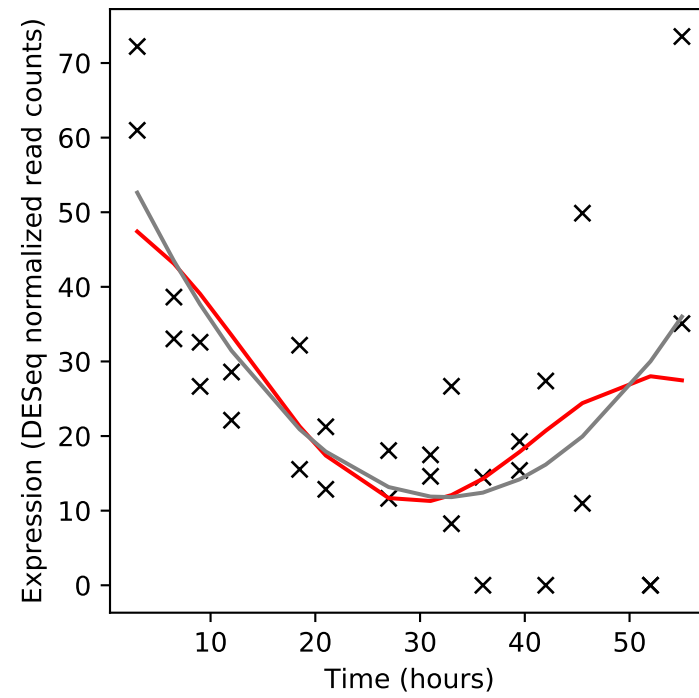
Rv0222/echA1



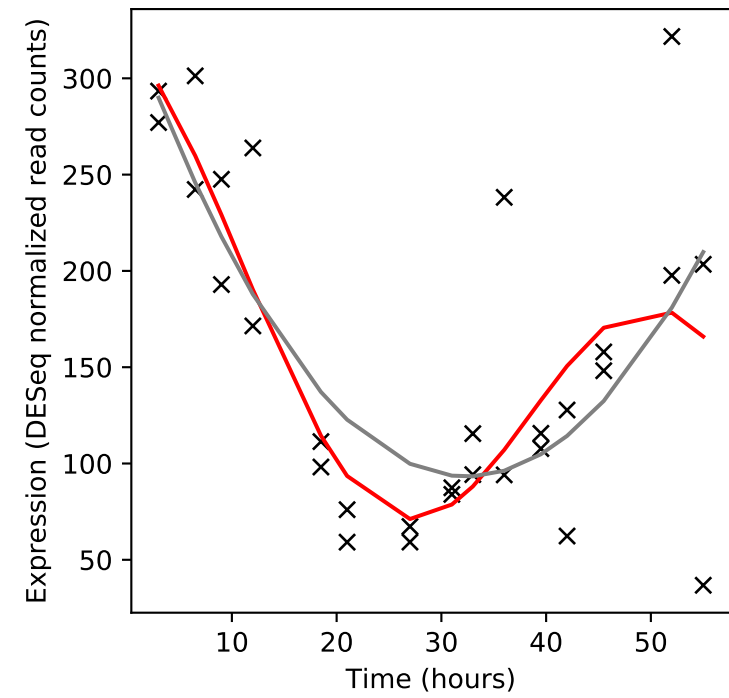
Rv0223c/-



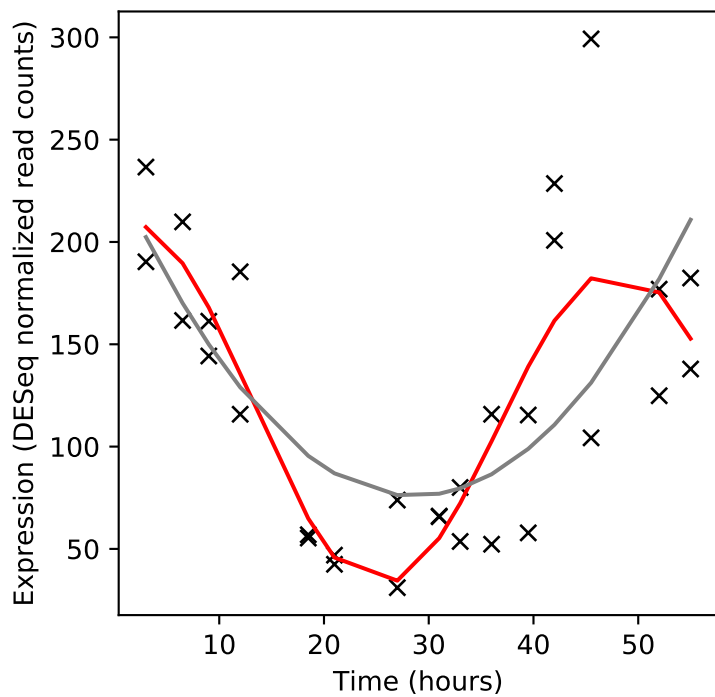
Rv0224c/-



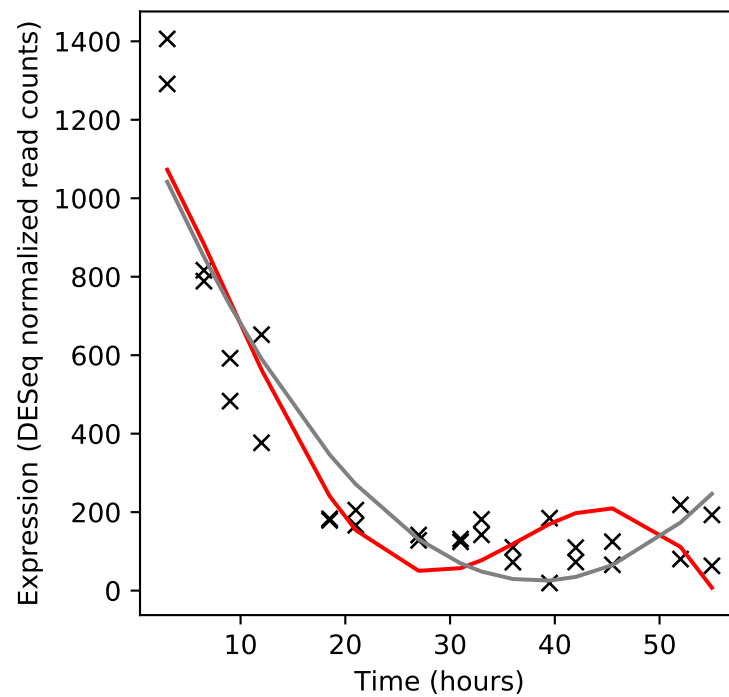
Rv0225/-



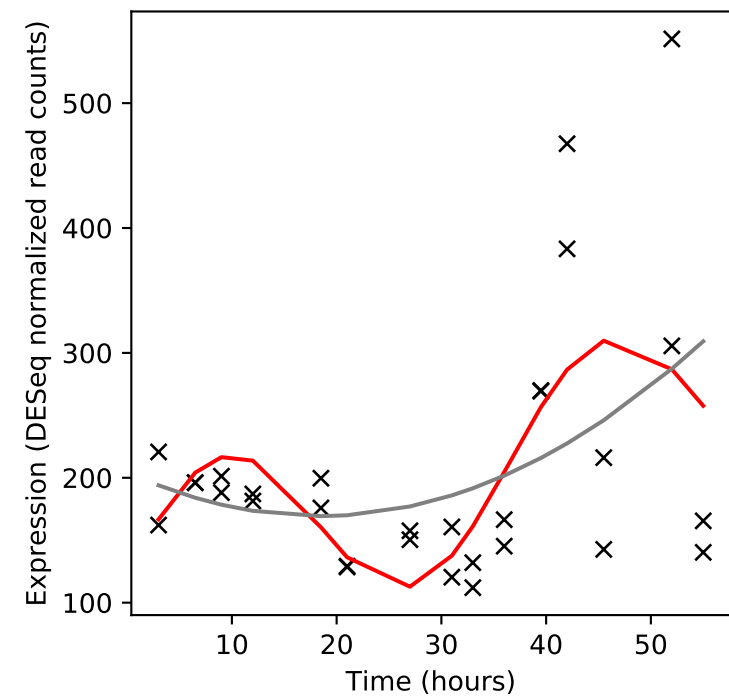
Rv0226c/-



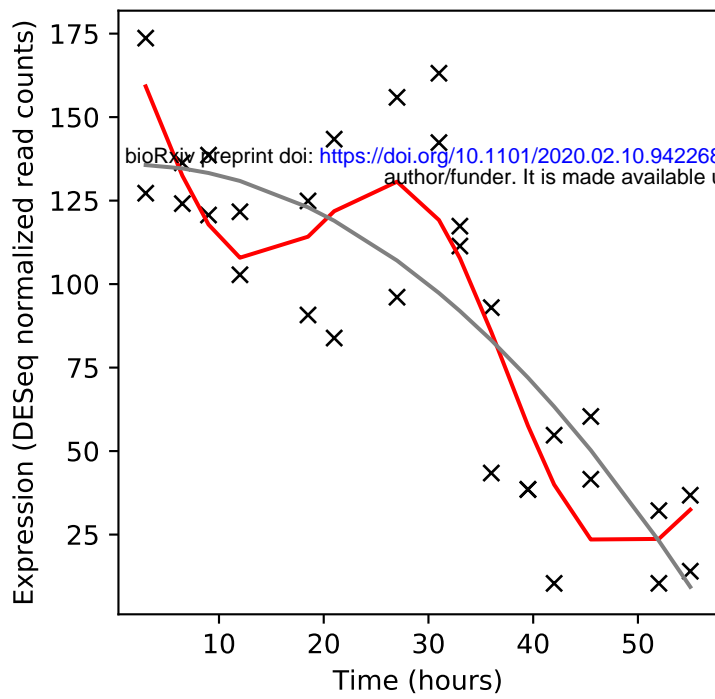
Rv0227c/-



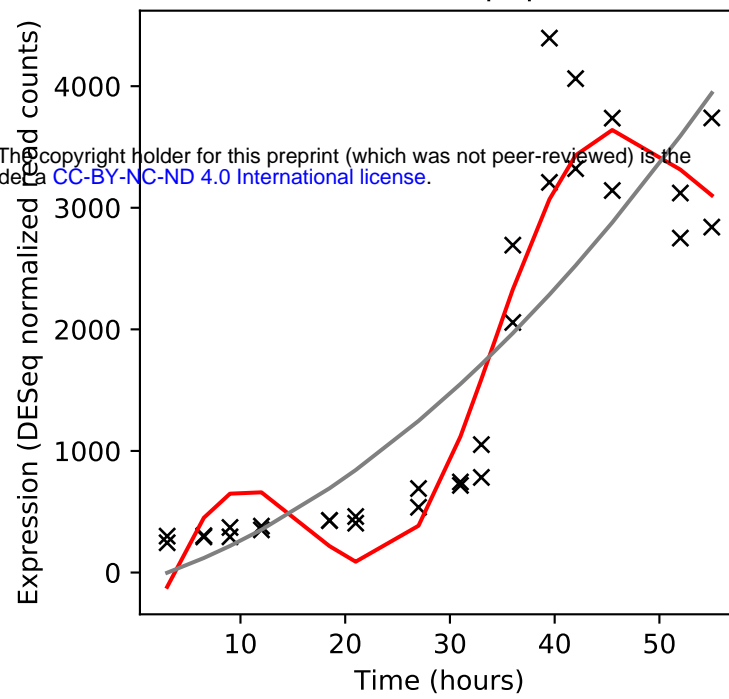
Rv0228/-



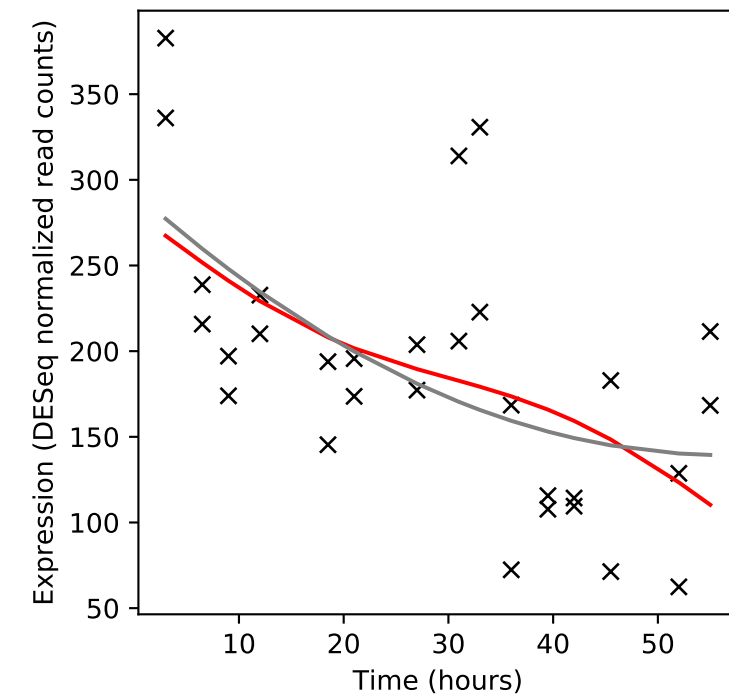
Rv0229c/-



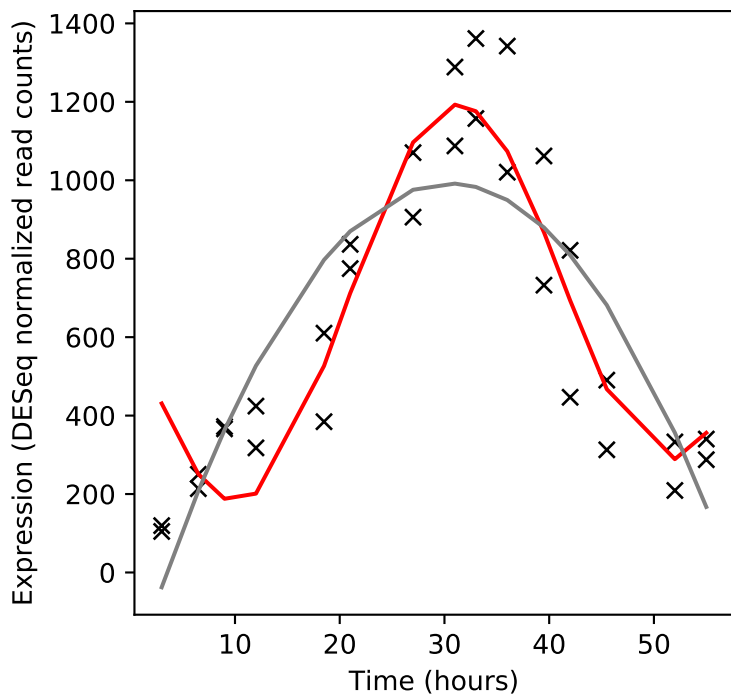
Rv0230c/php



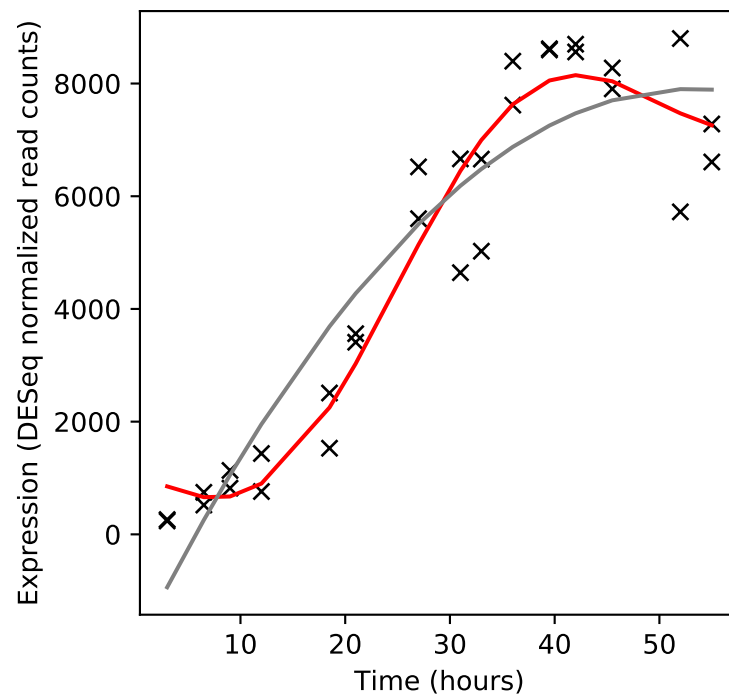
Rv0231/fadE4



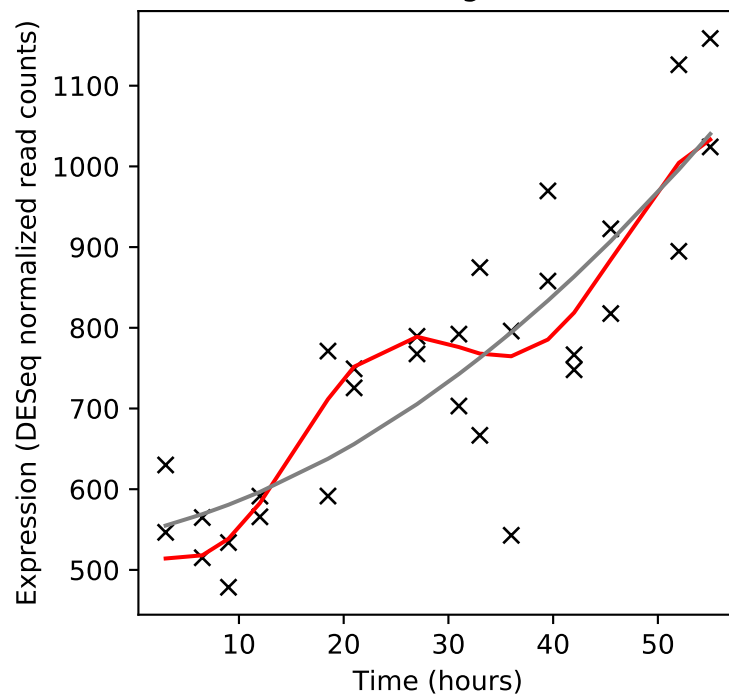
Rv0232/-



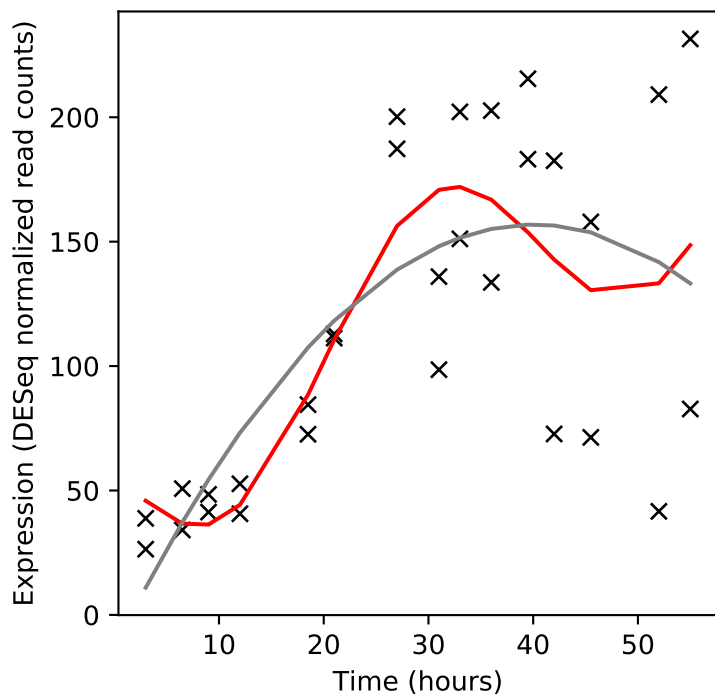
Rv0233/nrdB



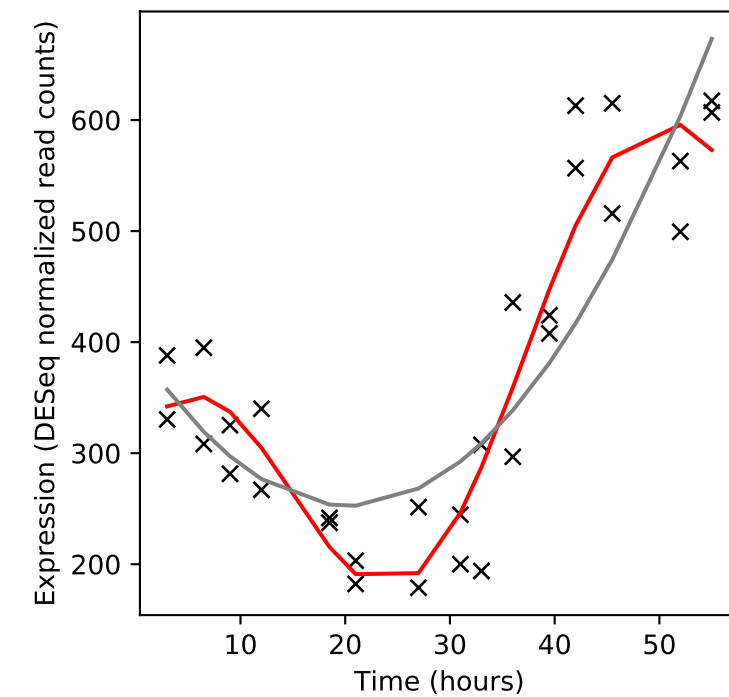
Rv0234c/gabD1



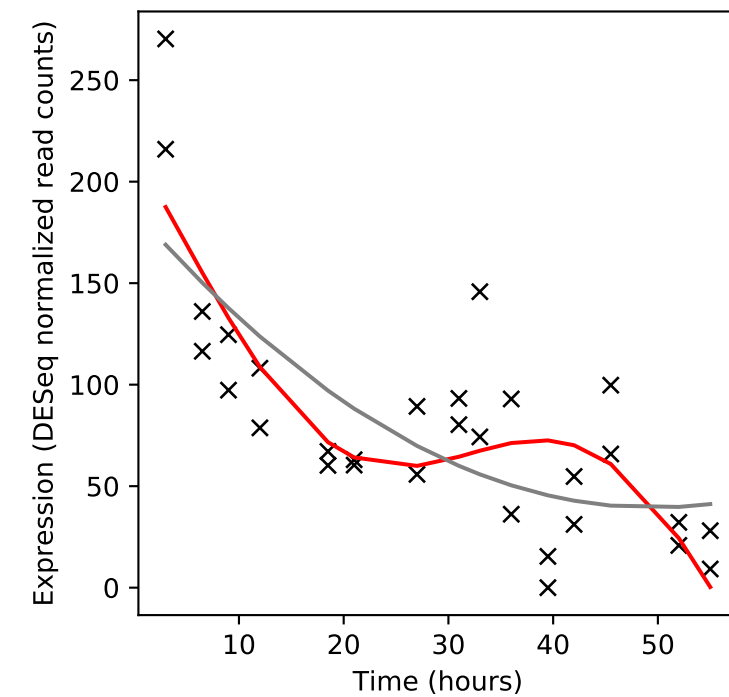
Rv0235c/-



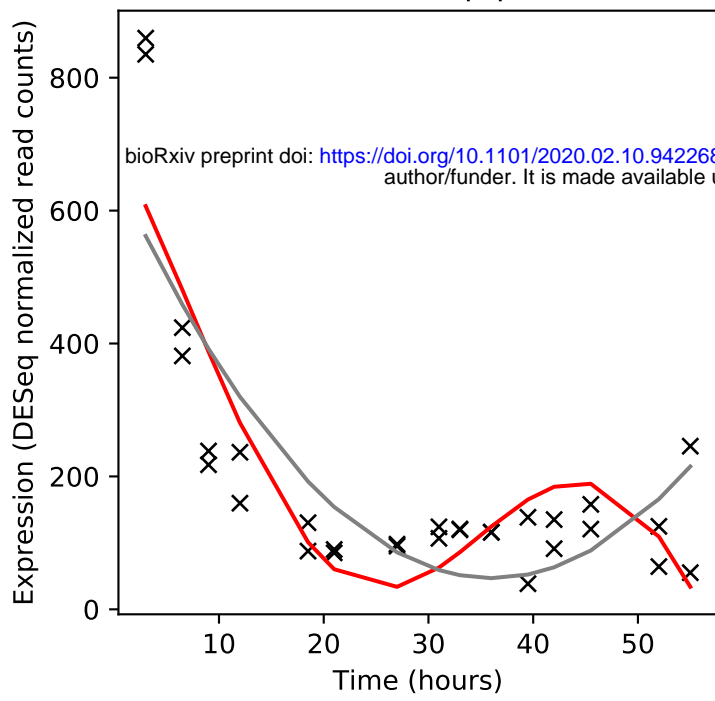
Rv0236c/aftD



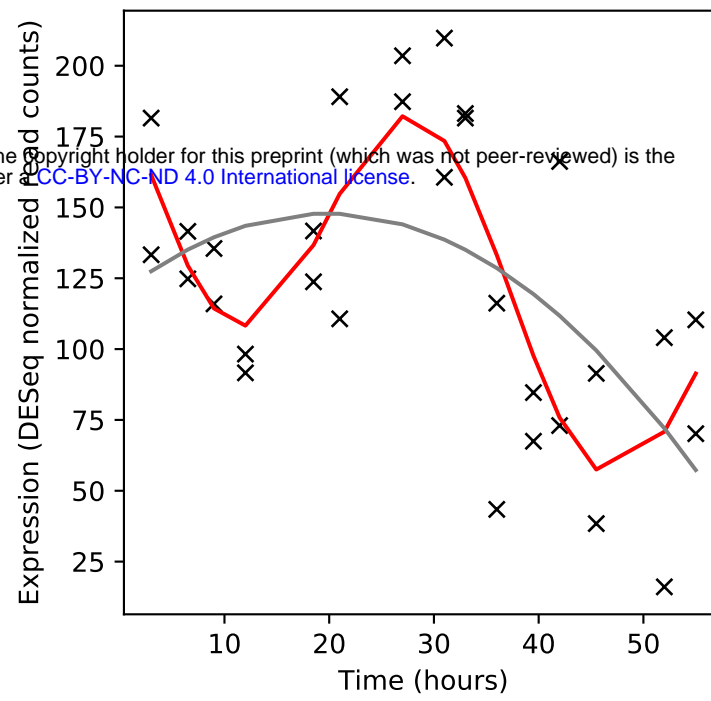
Rv0236A/-



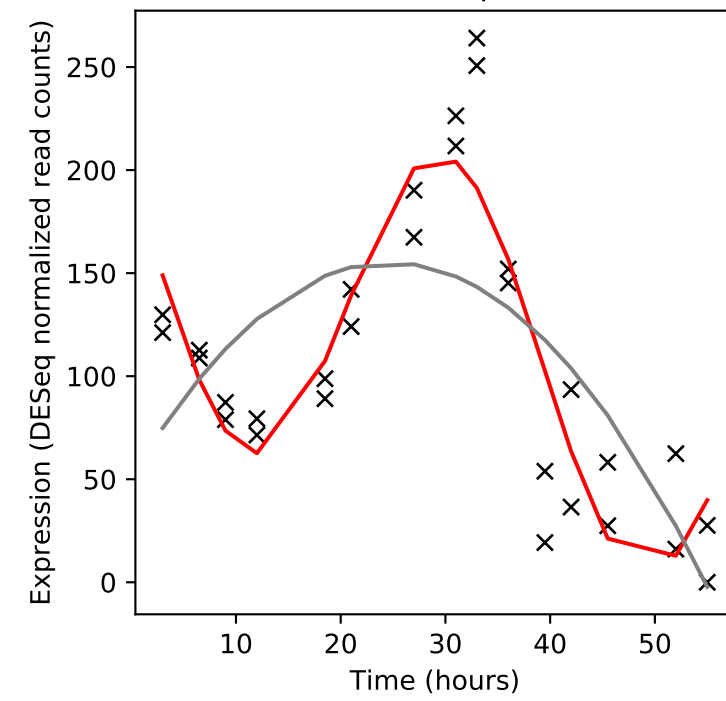
Rv0237/lpqI



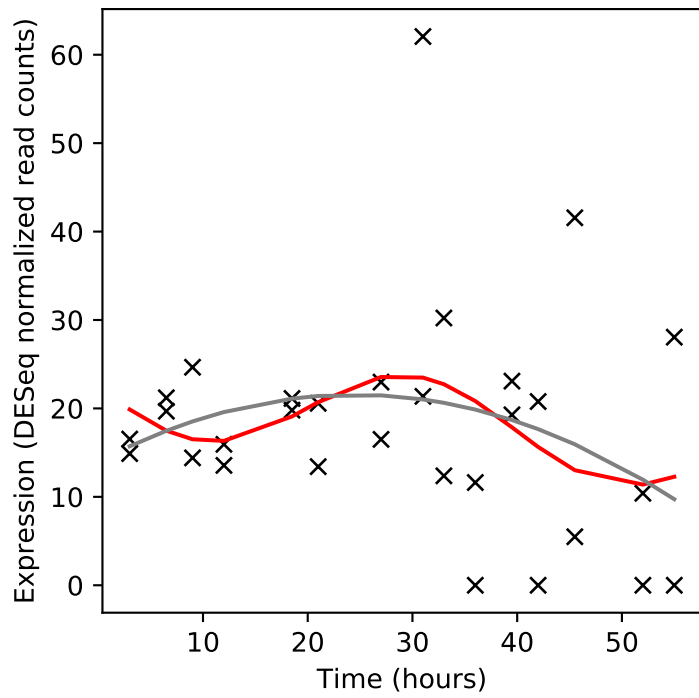
Rv0238/-



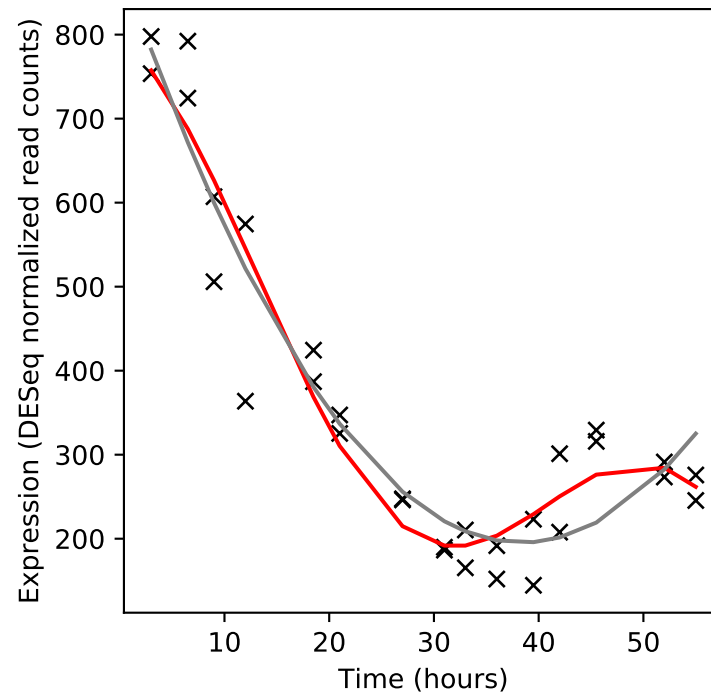
Rv0239/vapB24



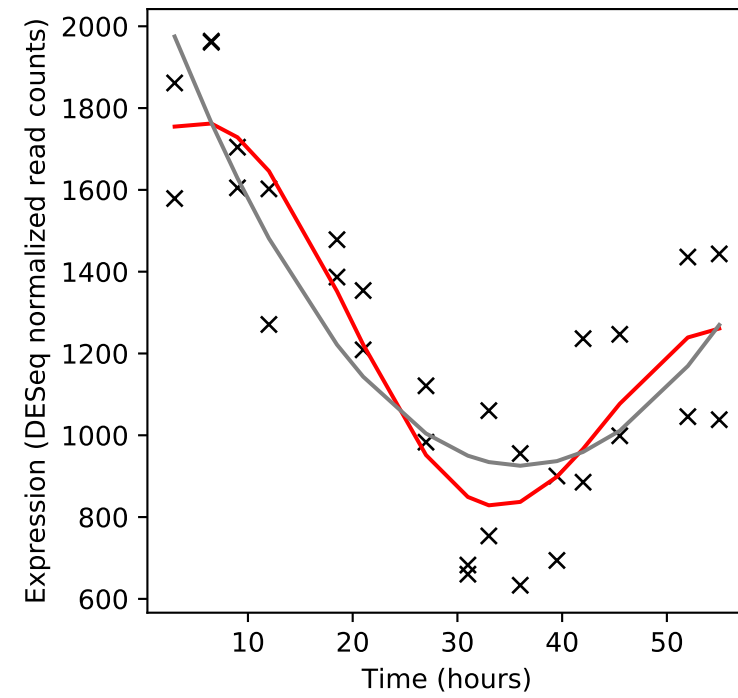
Rv0240/vapC24



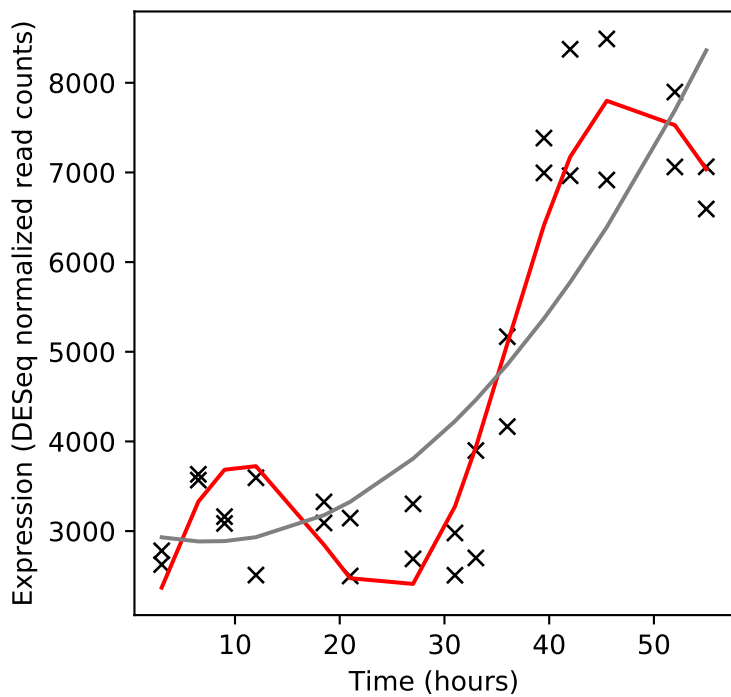
Rv0241c/htdX



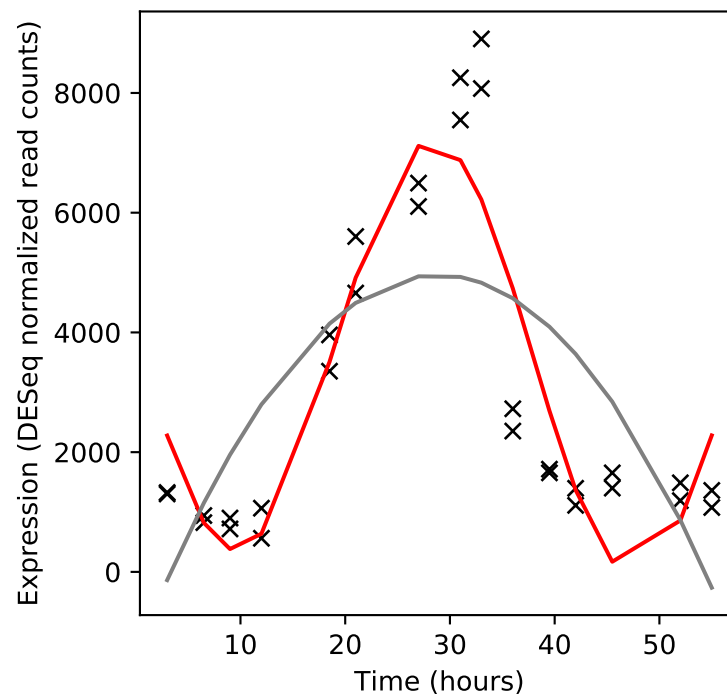
Rv0242c/fabG4



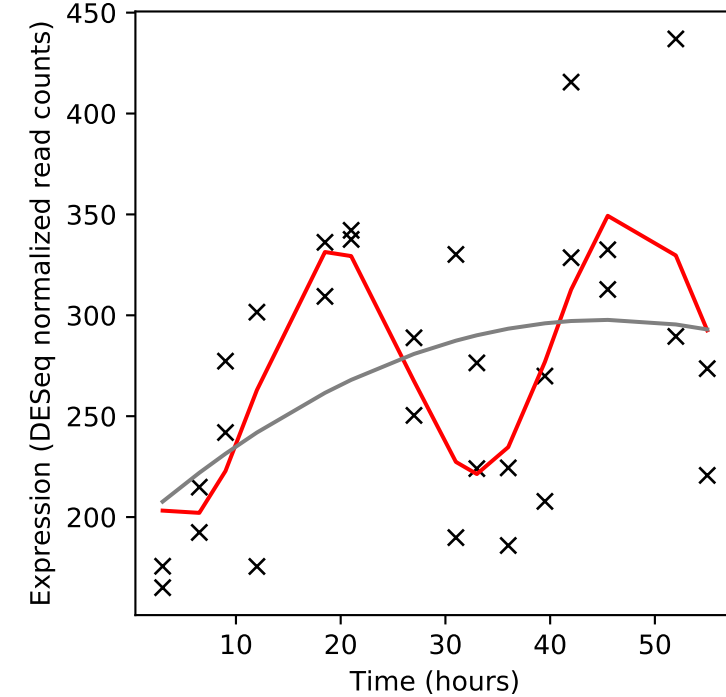
Rv0243/fadA2



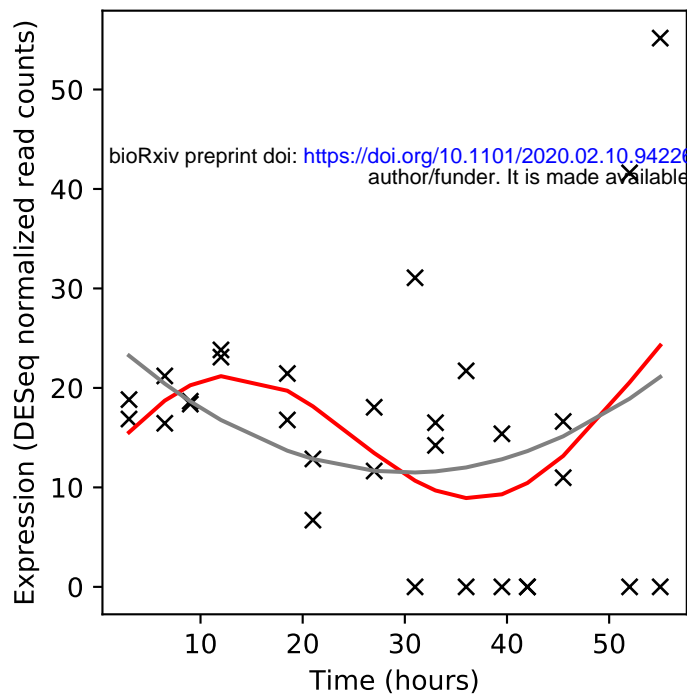
Rv0244c/fadE5



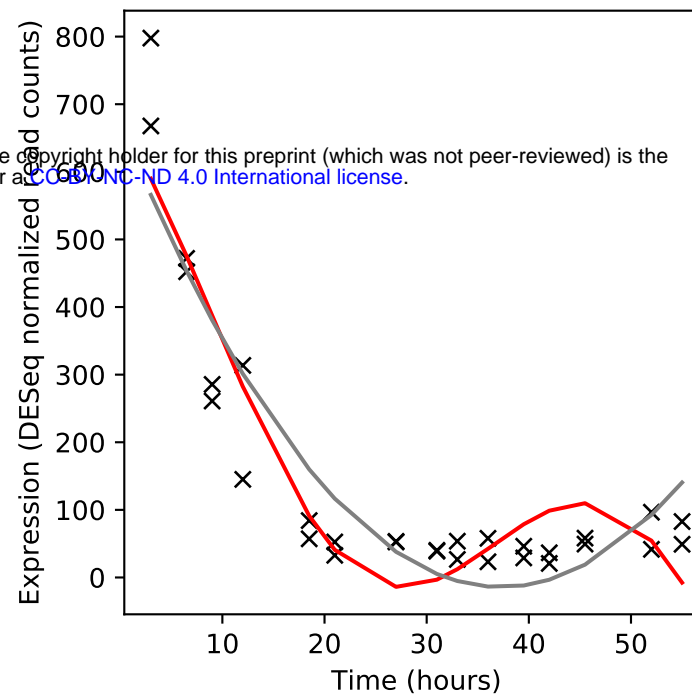
Rv0245/-



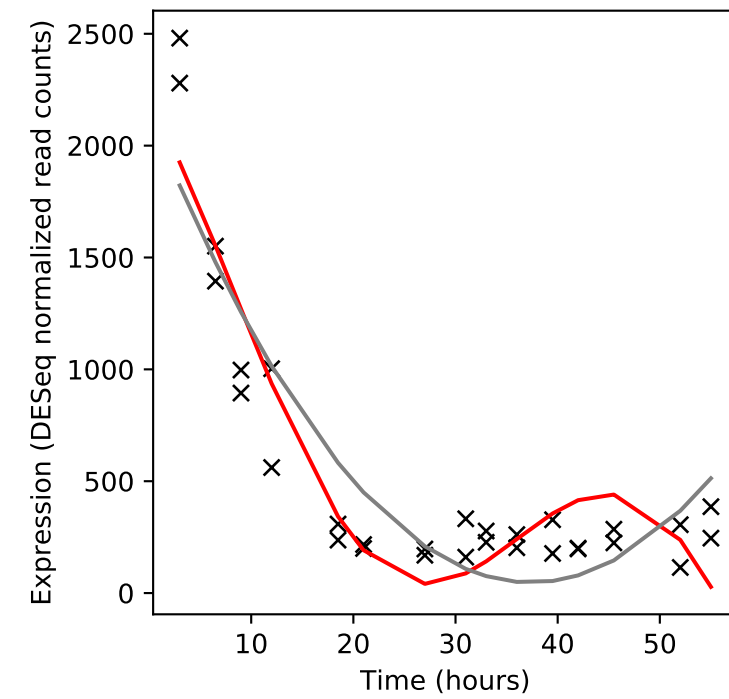
Rv0246/-



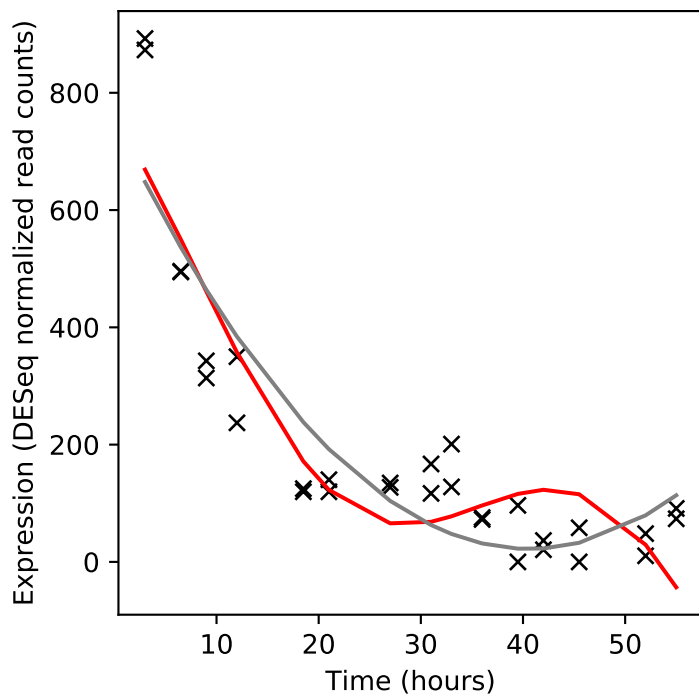
Rv0247c/-



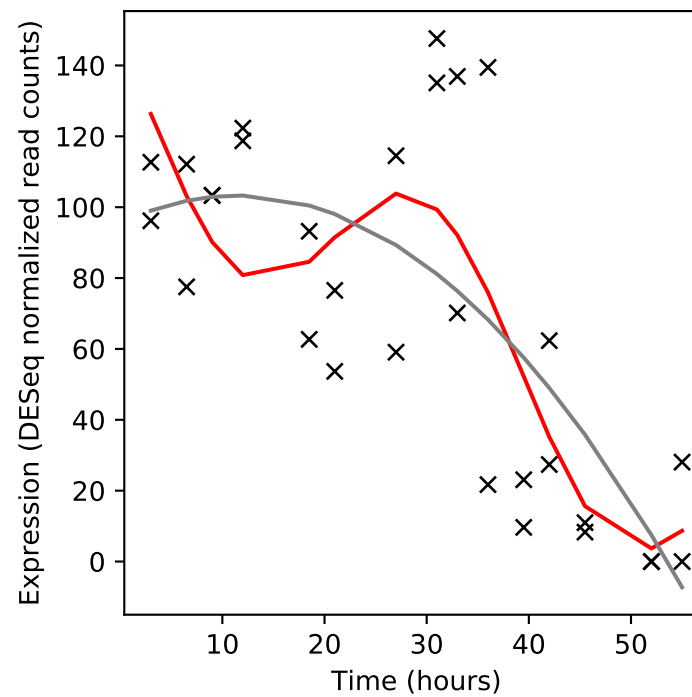
Rv0248c/-



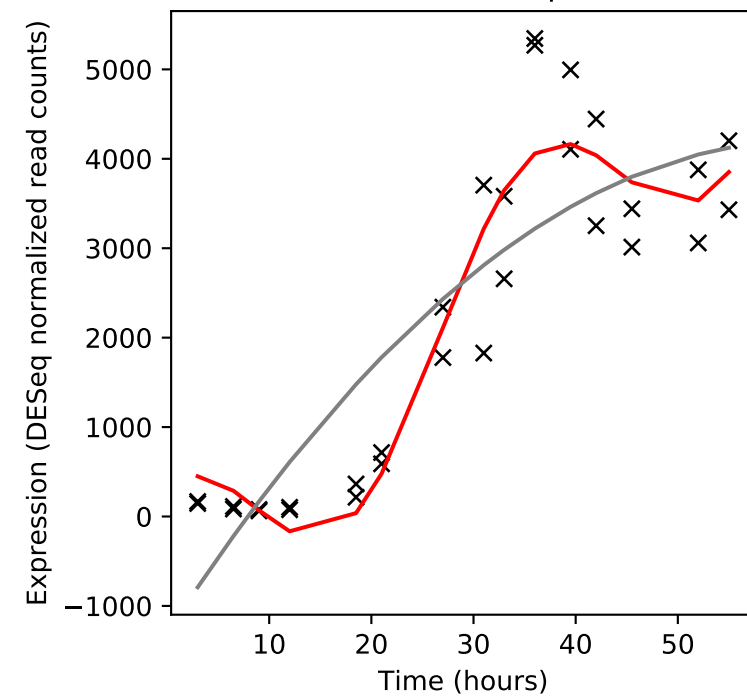
Rv0249c/-



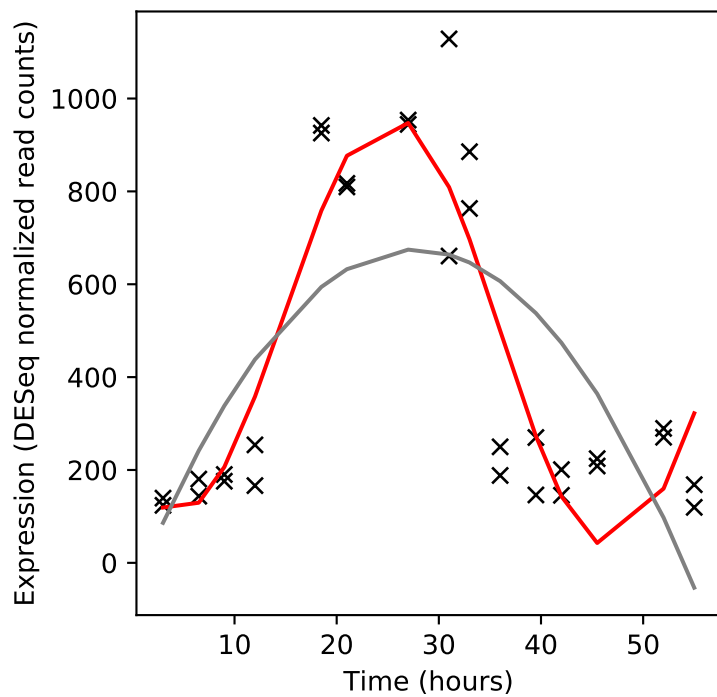
Rv0250c/-



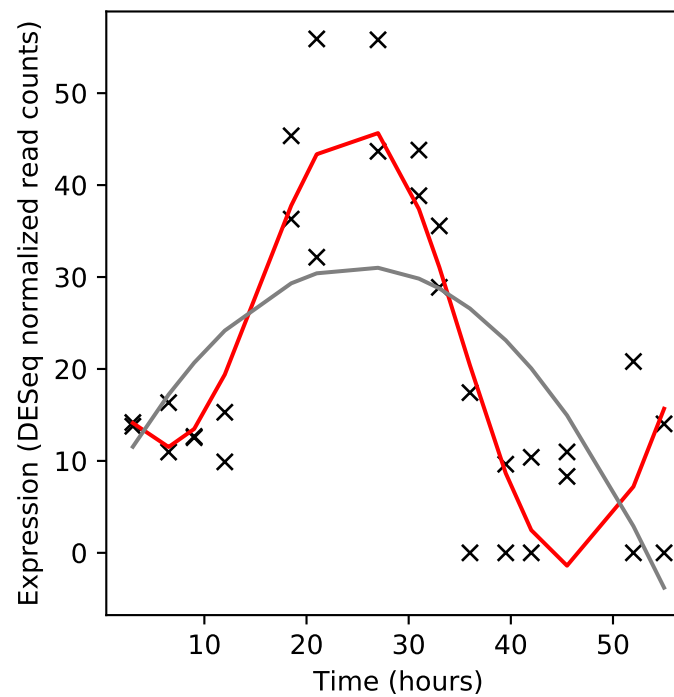
Rv0251c/hsp



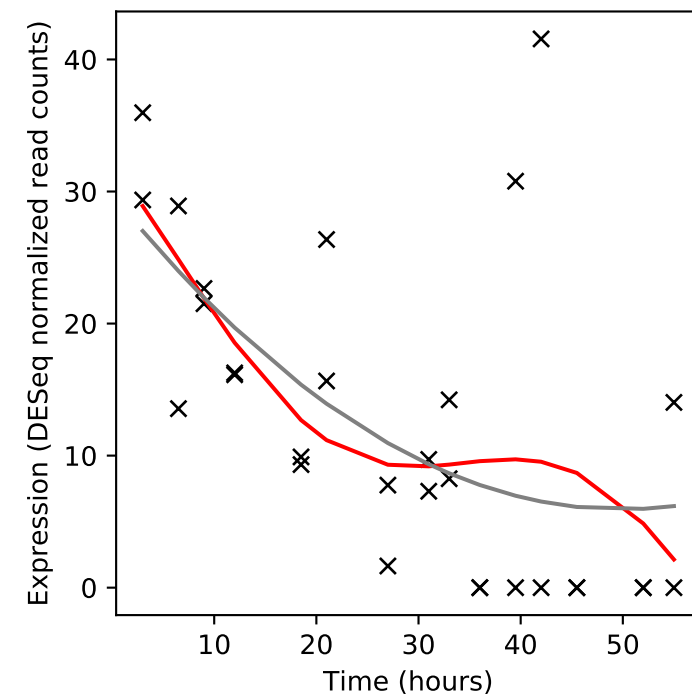
Rv0252/nirB



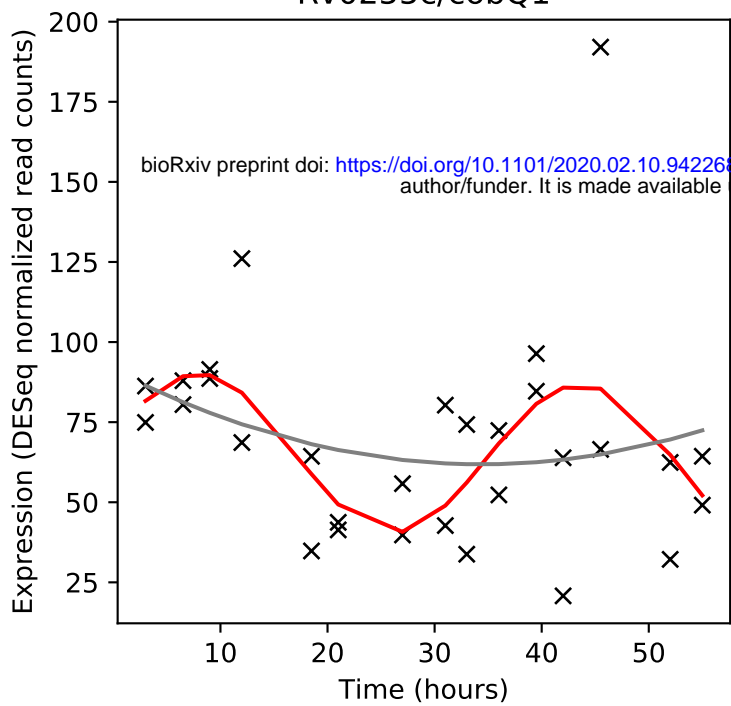
Rv0253/nirD



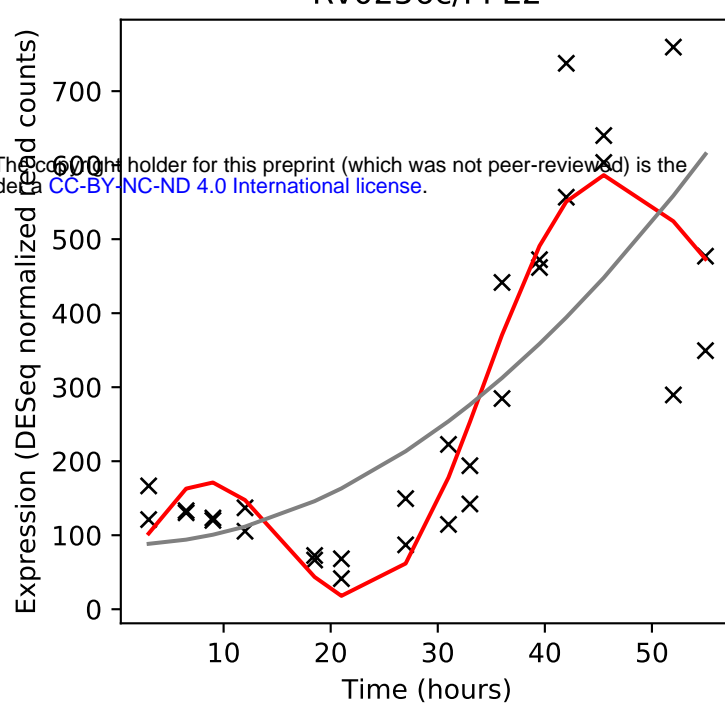
Rv0254c/cobU



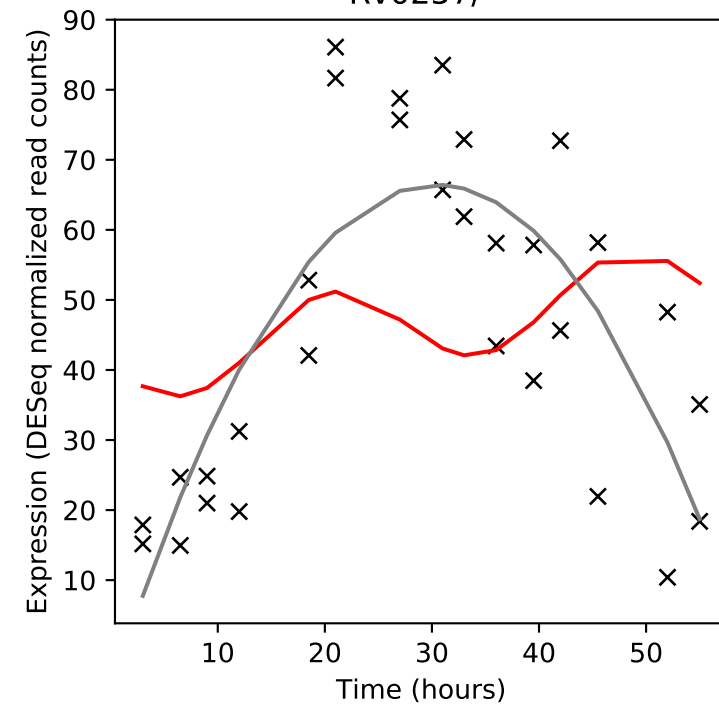
Rv0255c/cobQ1



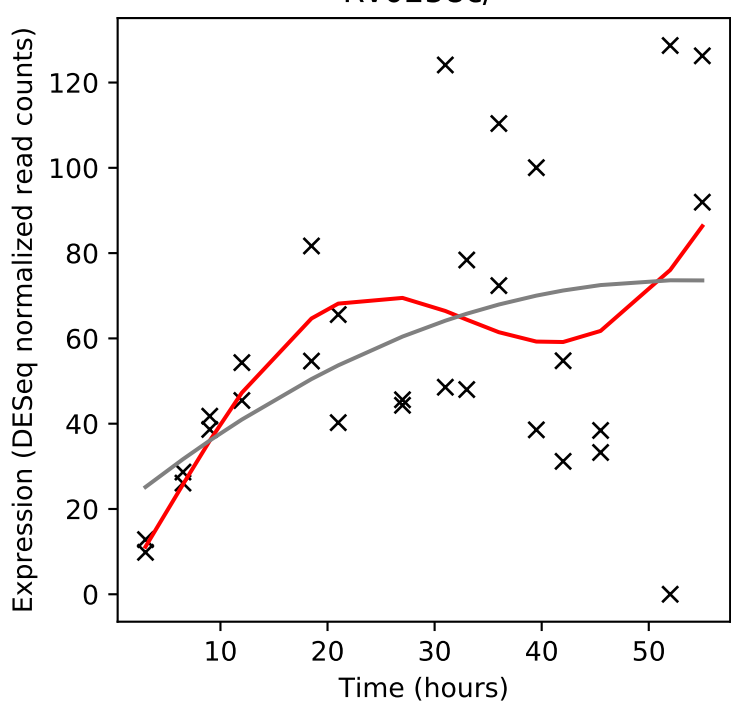
Rv0256c/PPE2



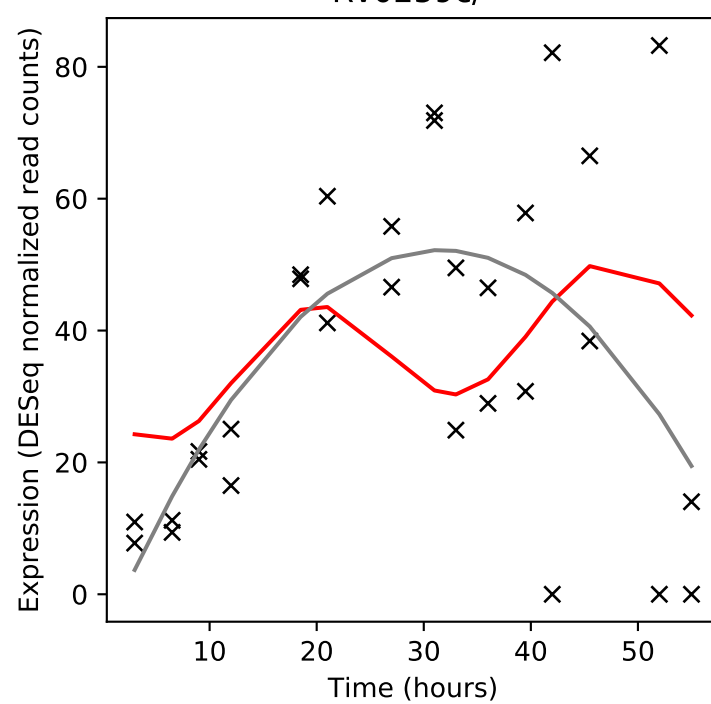
Rv0257c/-



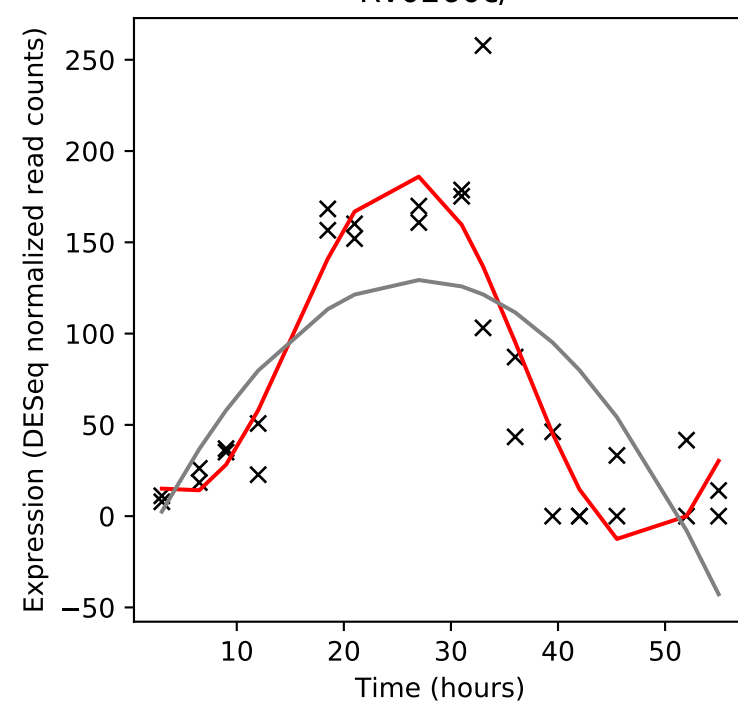
Rv0258c/-



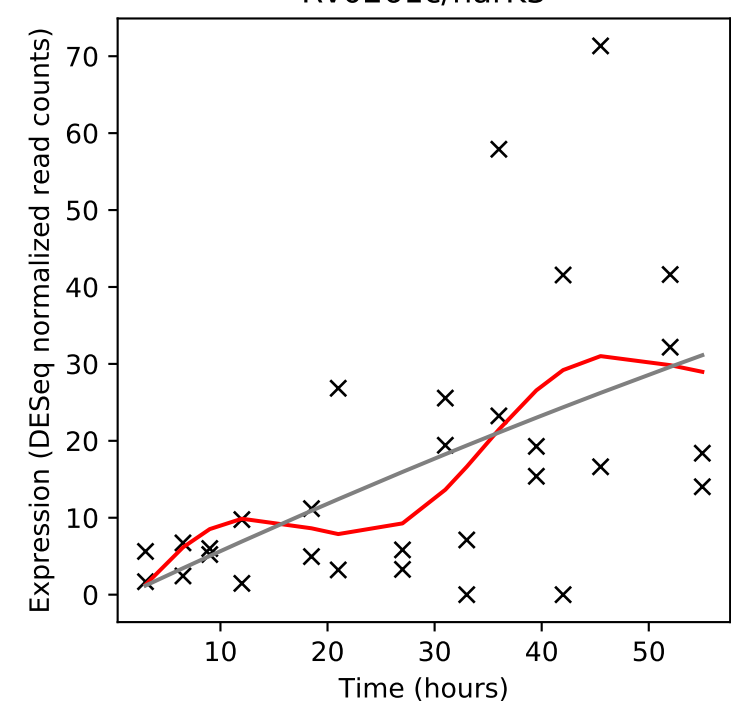
Rv0259c/-



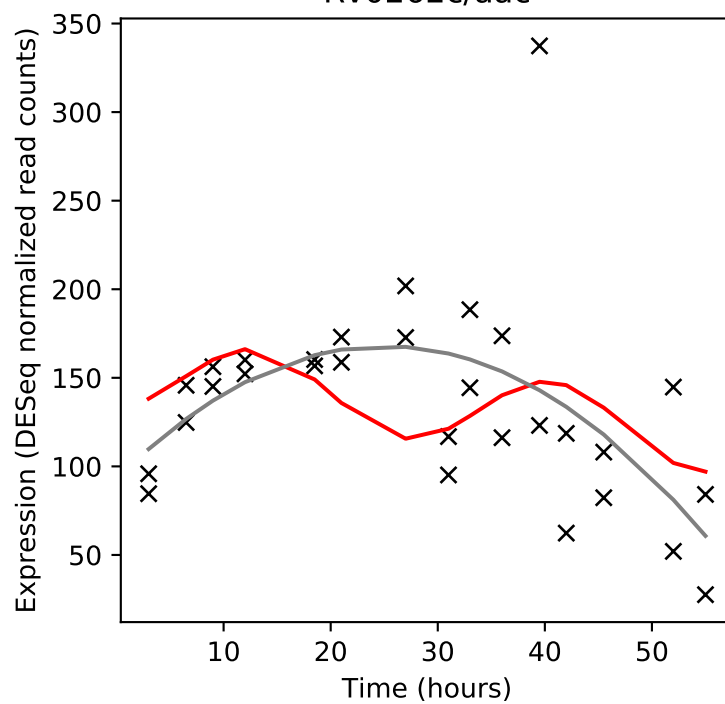
Rv0260c/-



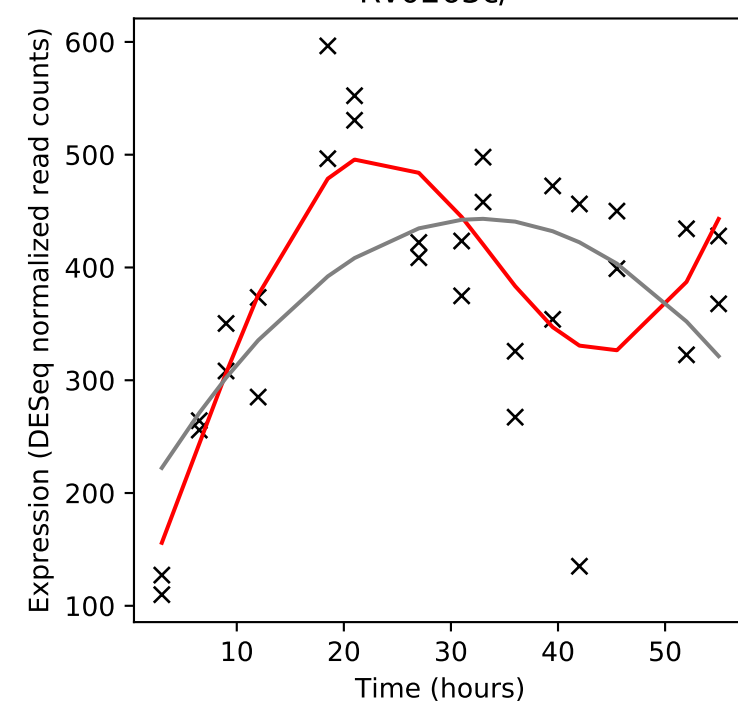
Rv0261c/narK3

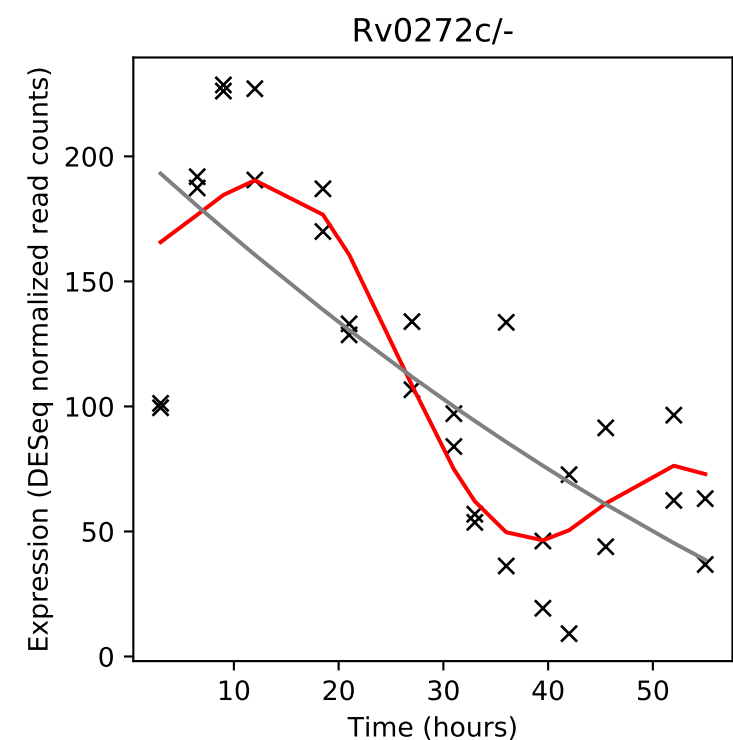
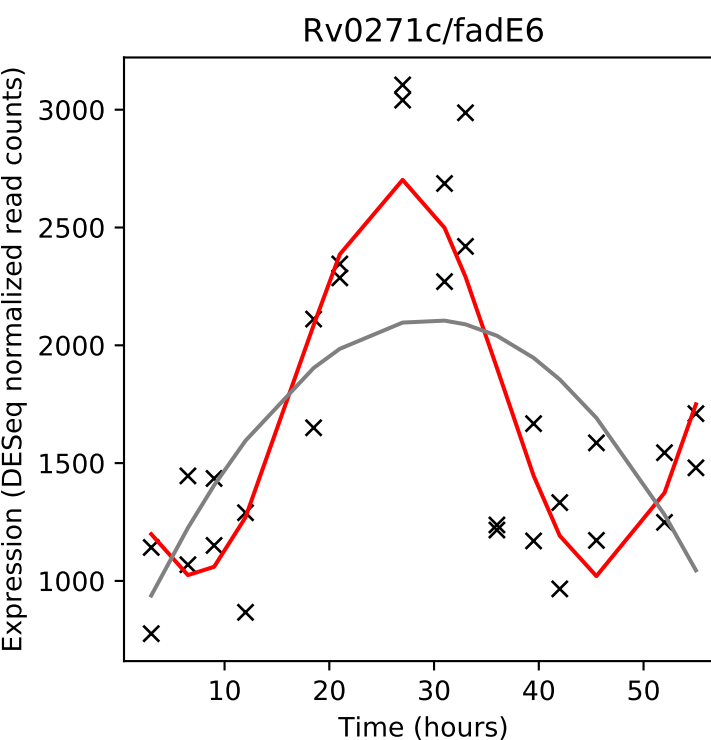
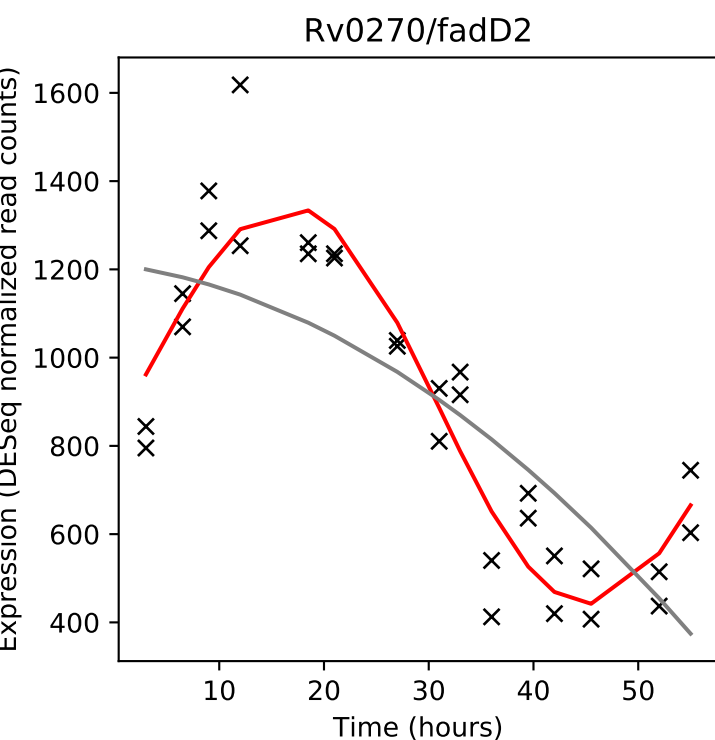
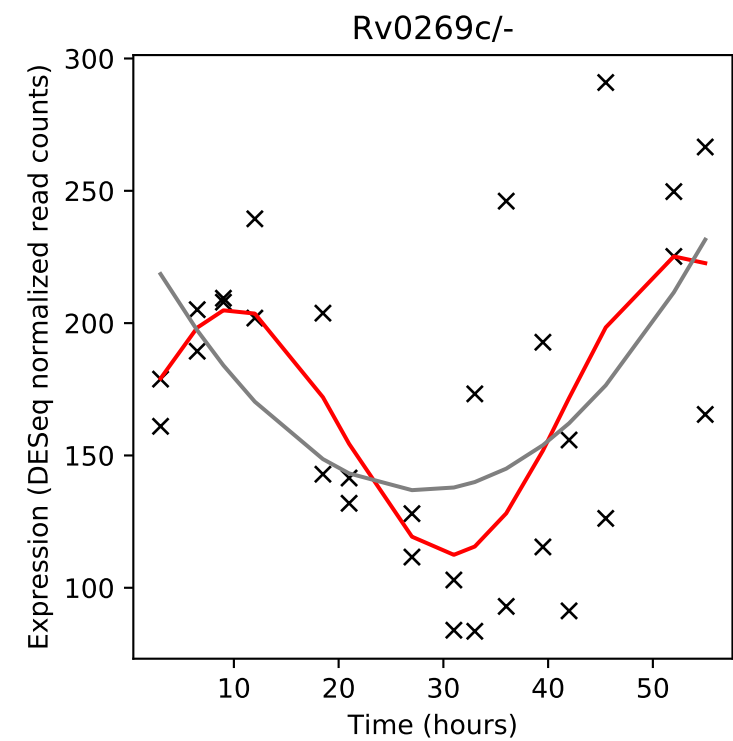
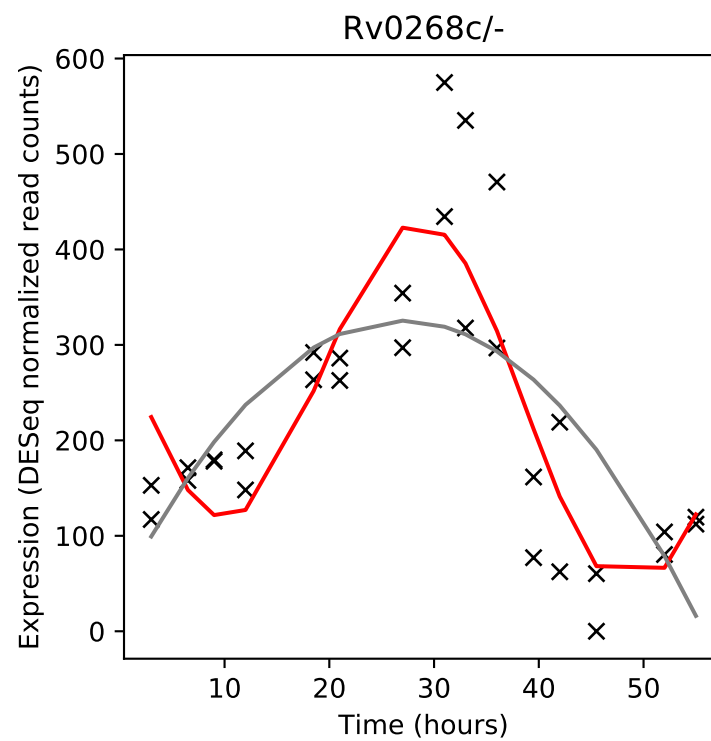
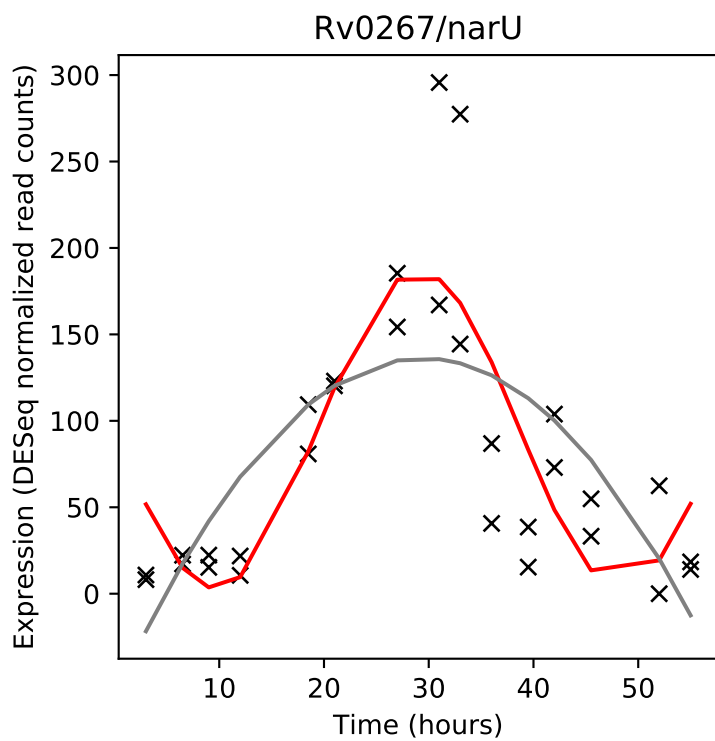
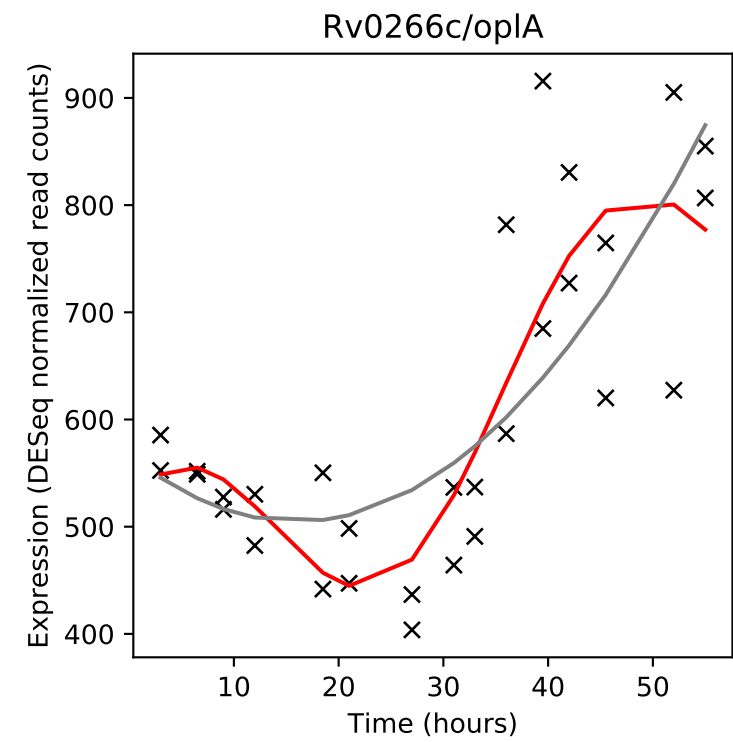
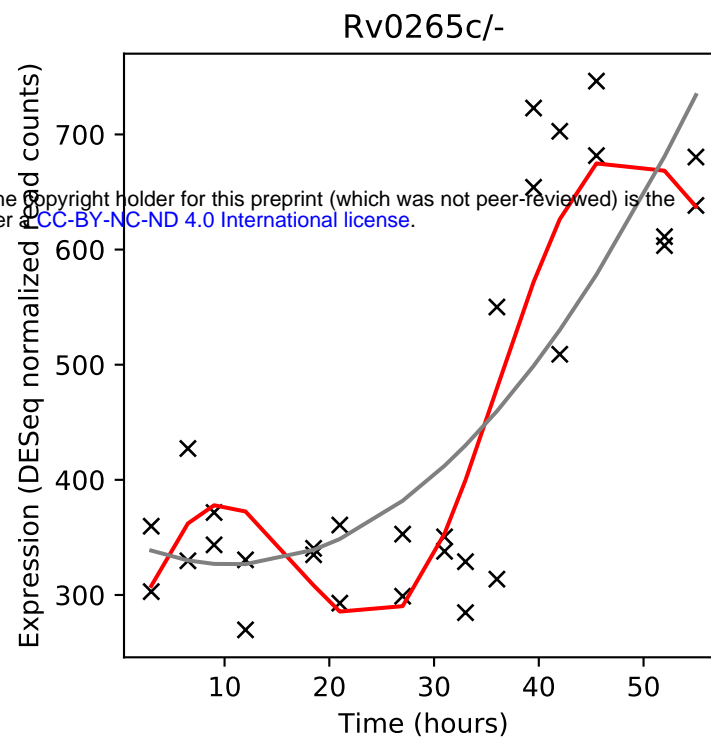
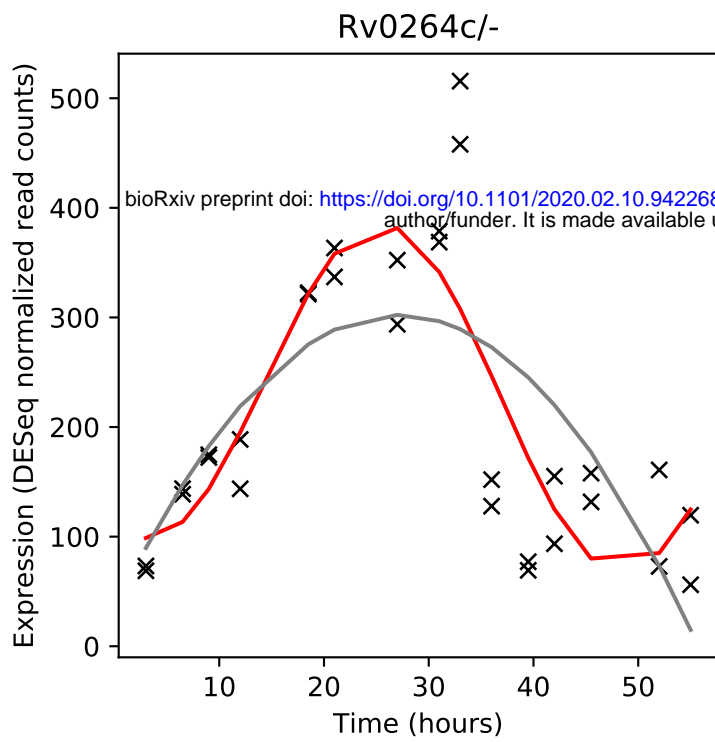


Rv0262c/aac

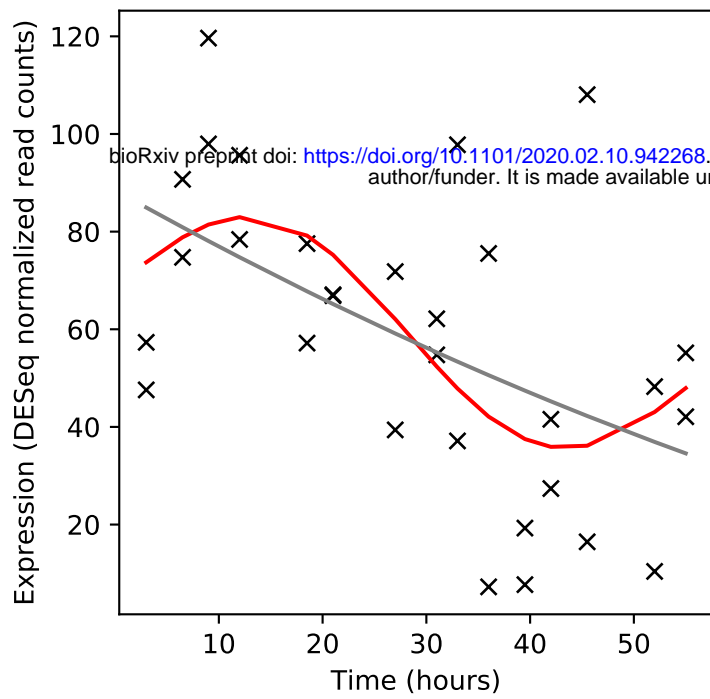


Rv0263c/-

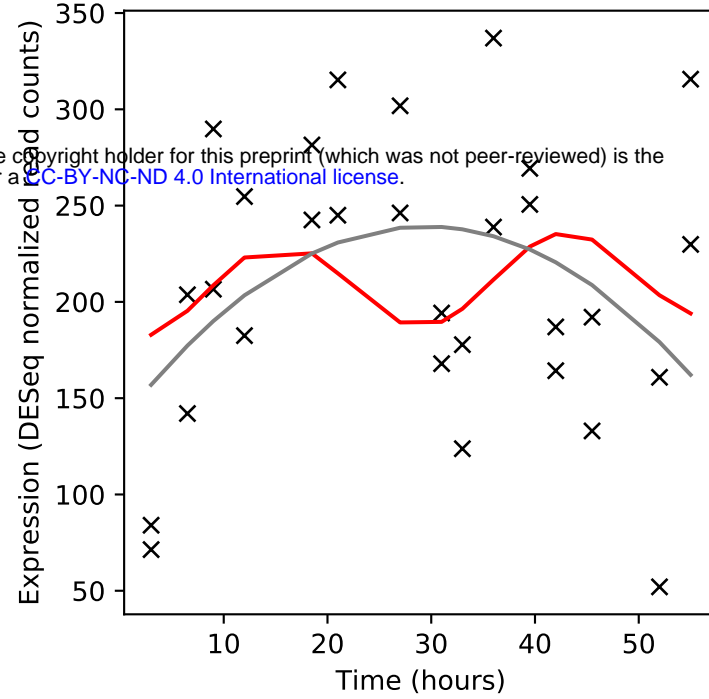




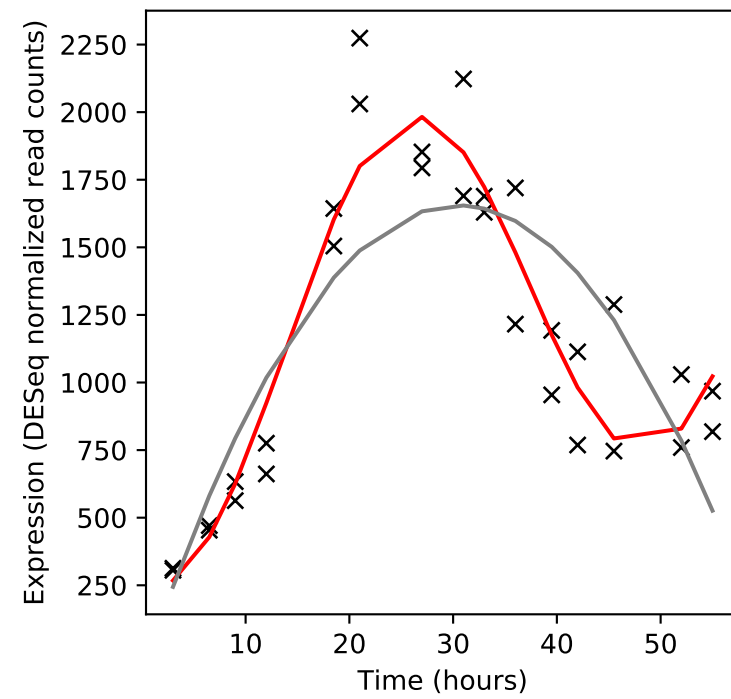
Rv0273c/-



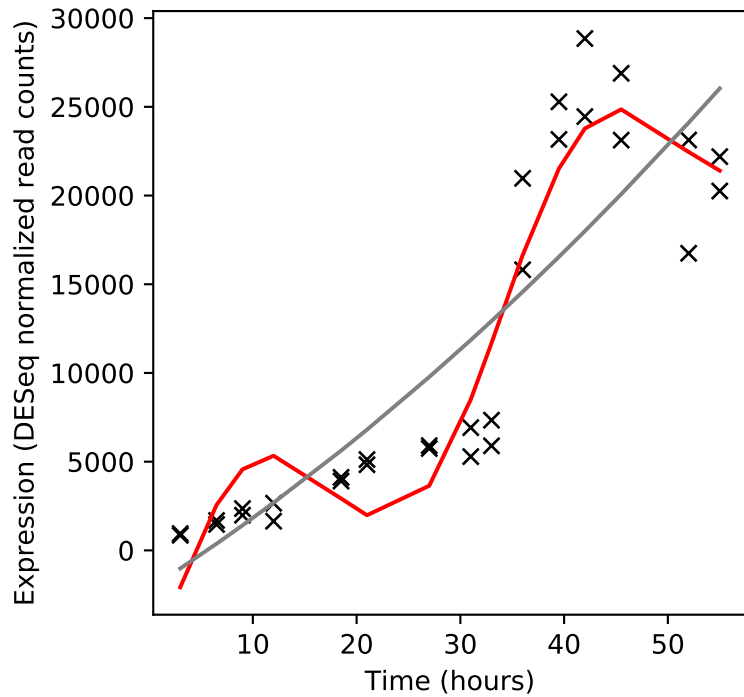
Rv0274/-



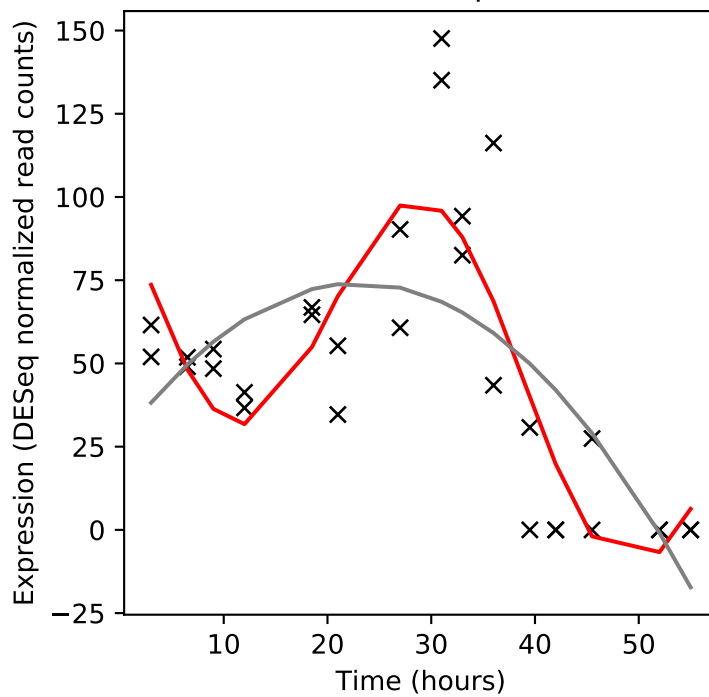
Rv0275c/-



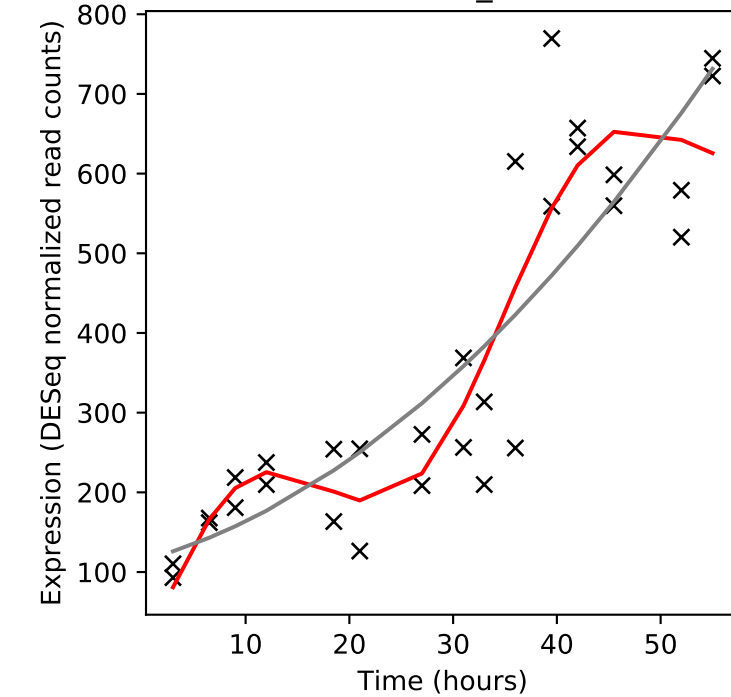
Rv0276/-



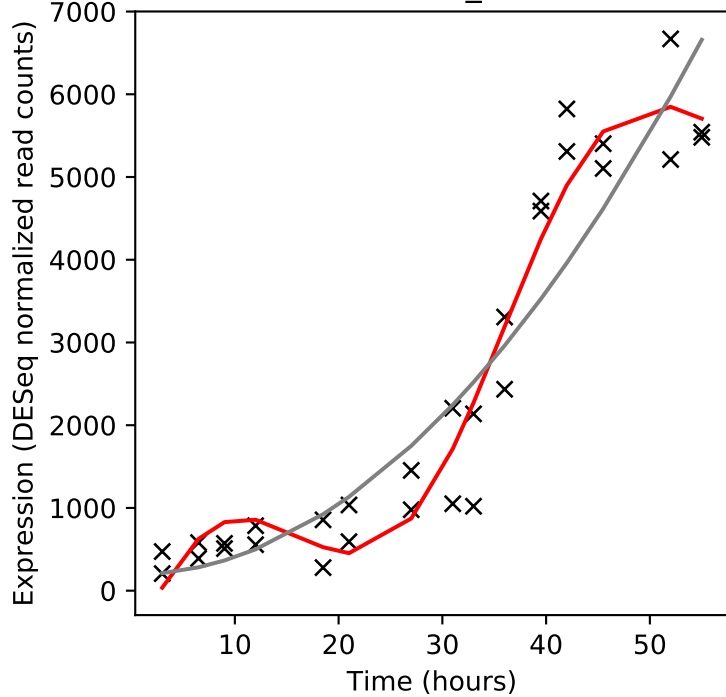
Rv0277c/vapC25



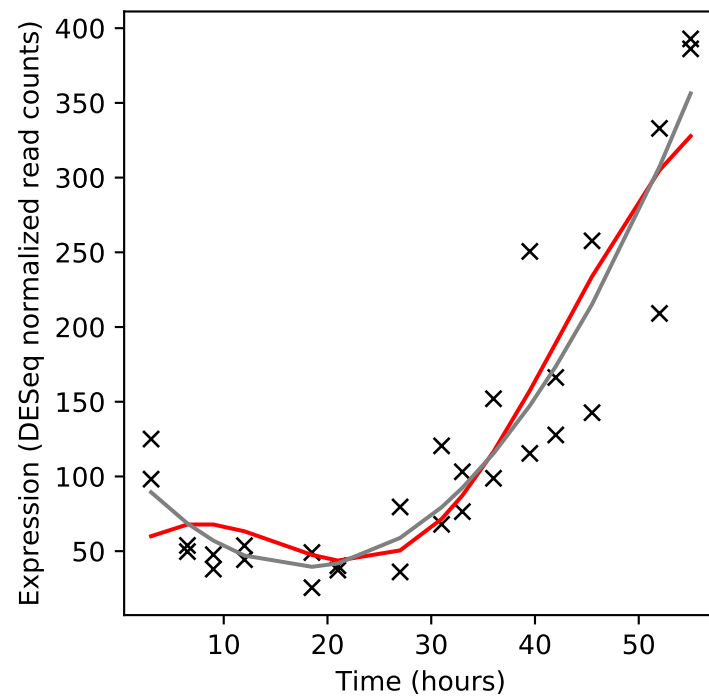
Rv0278c/PE_PGRS3



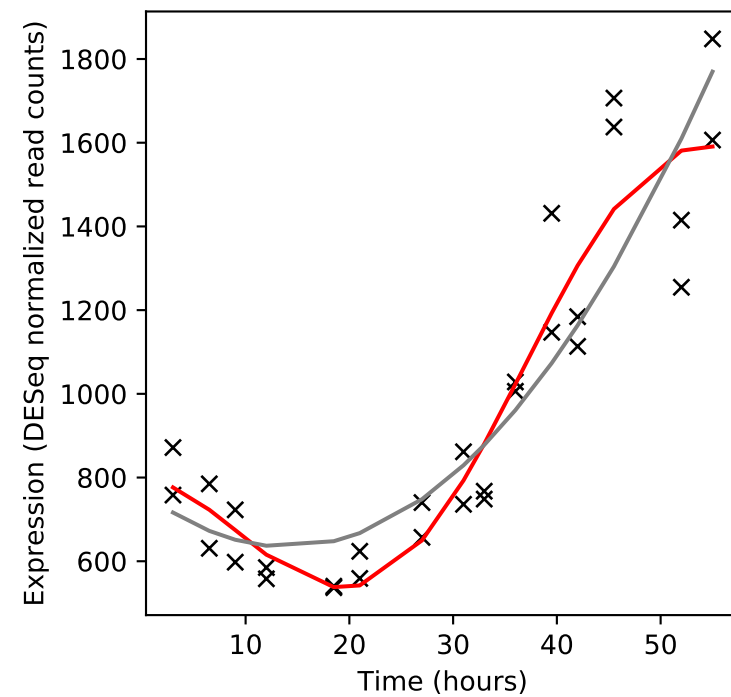
Rv0279c/PE_PGRS4



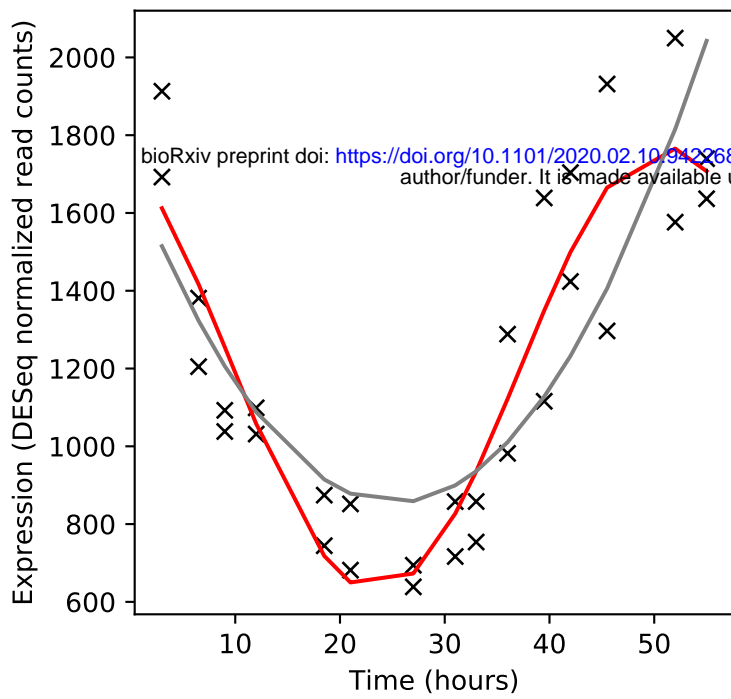
Rv0280/PPE3



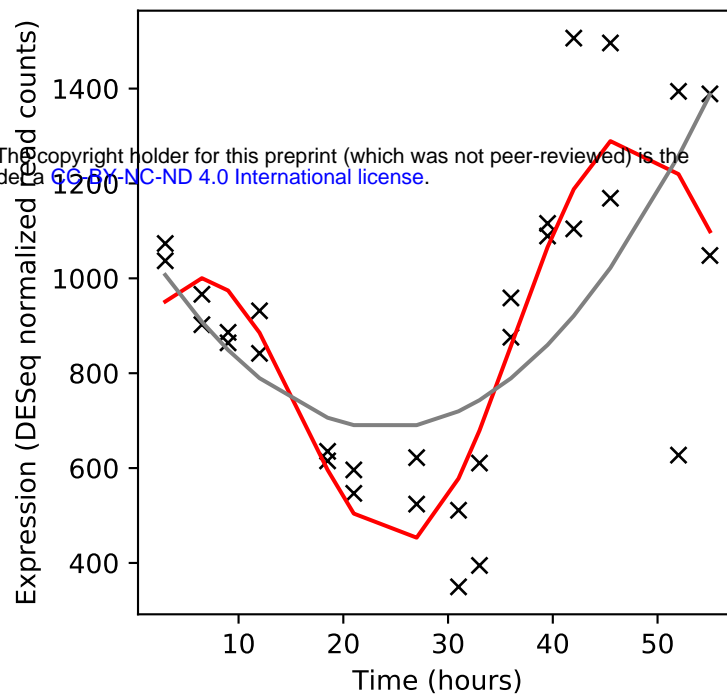
Rv0281/-



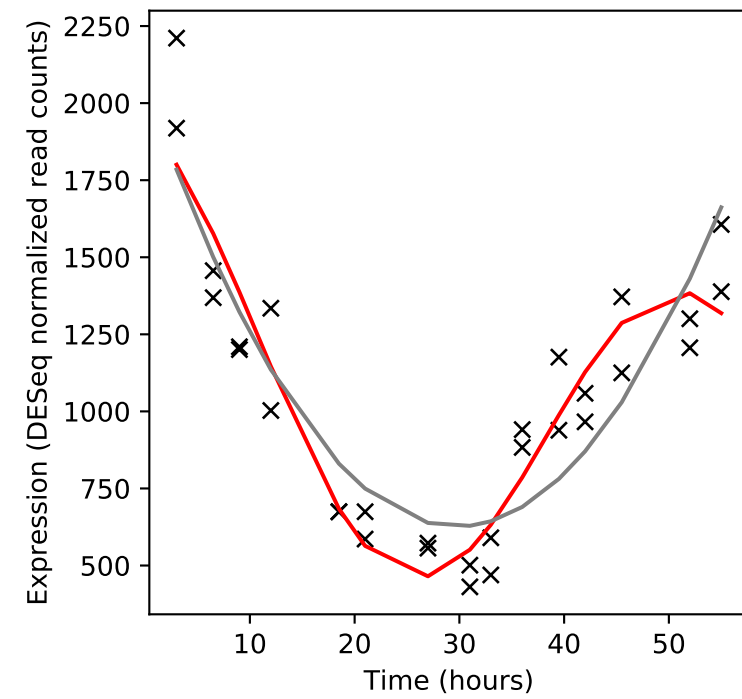
Rv0282/eccA3



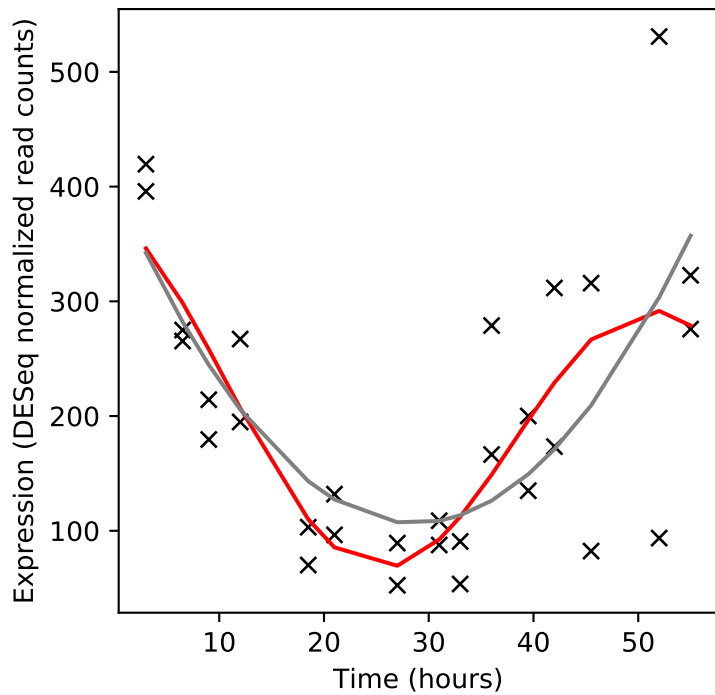
Rv0283/eccB3



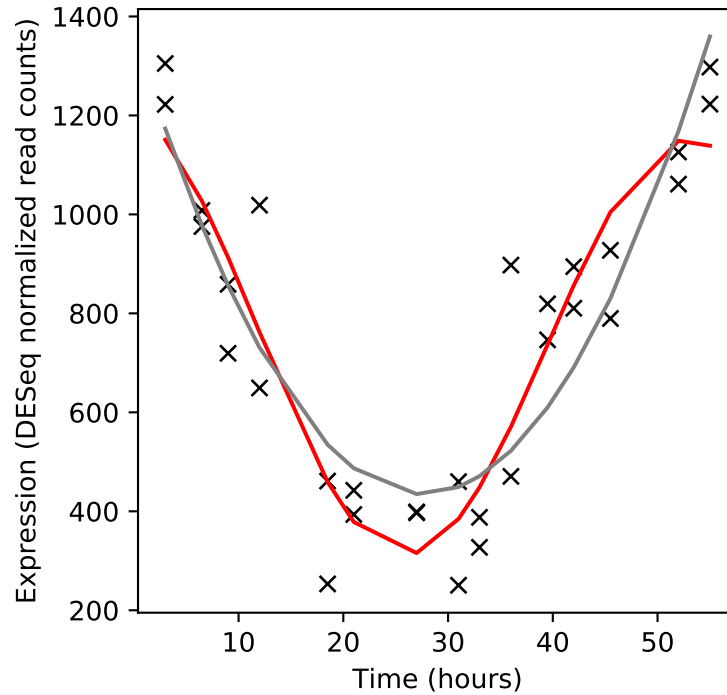
Rv0284/eccC3



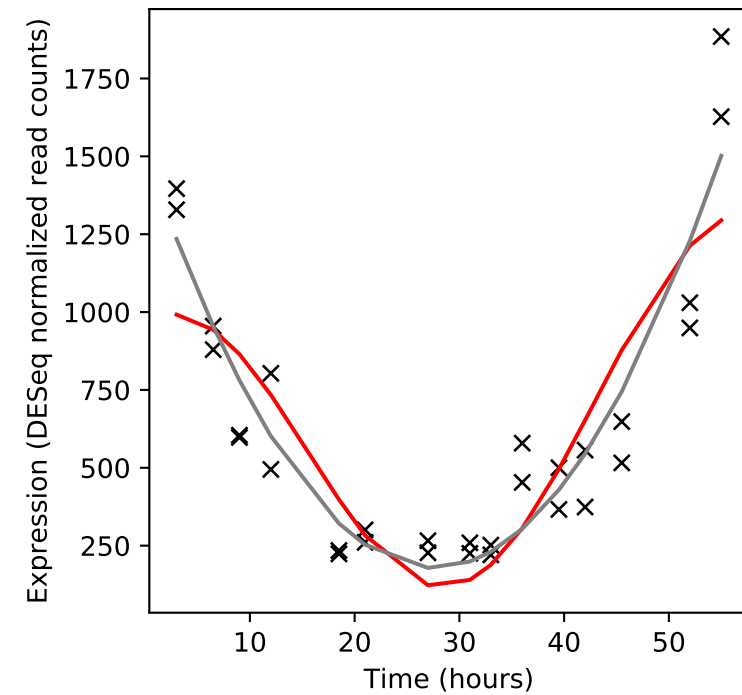
Rv0285/PE5



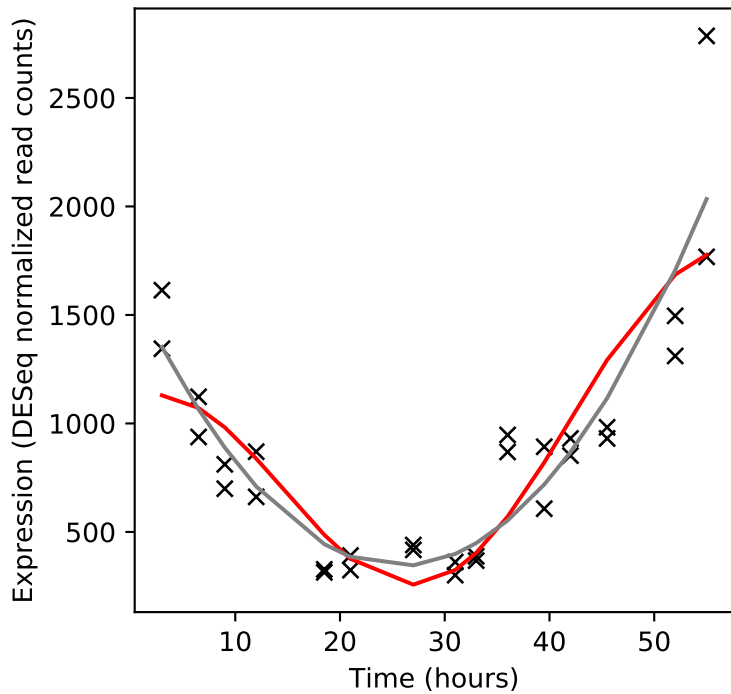
Rv0286/PPE4



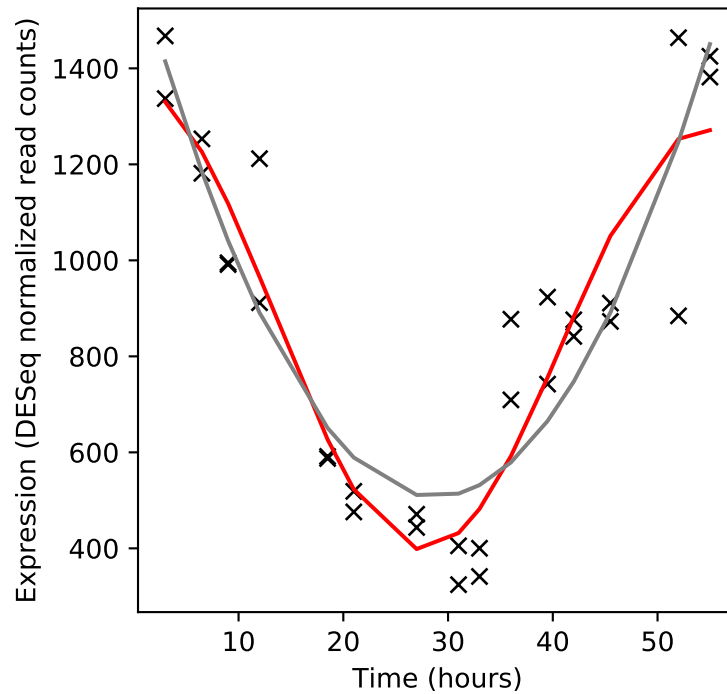
Rv0287/esxG



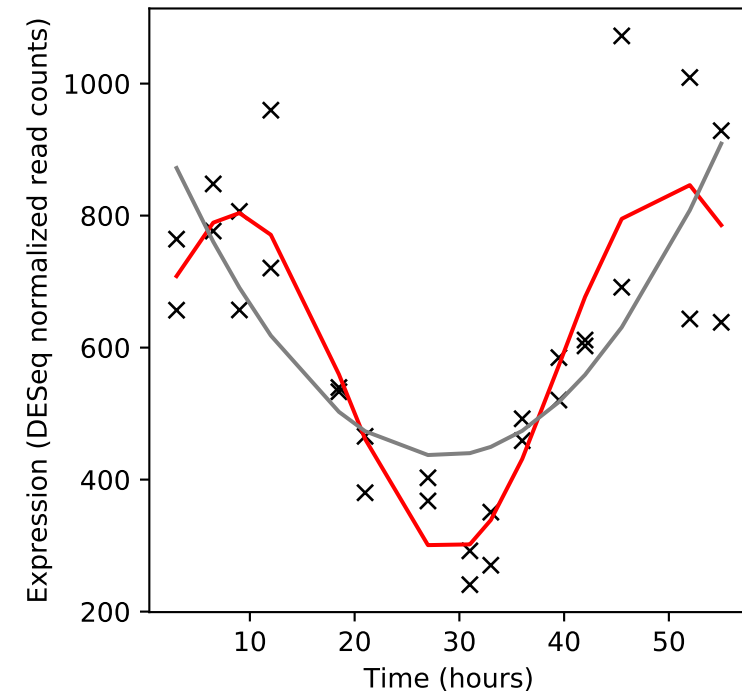
Rv0288/esxH



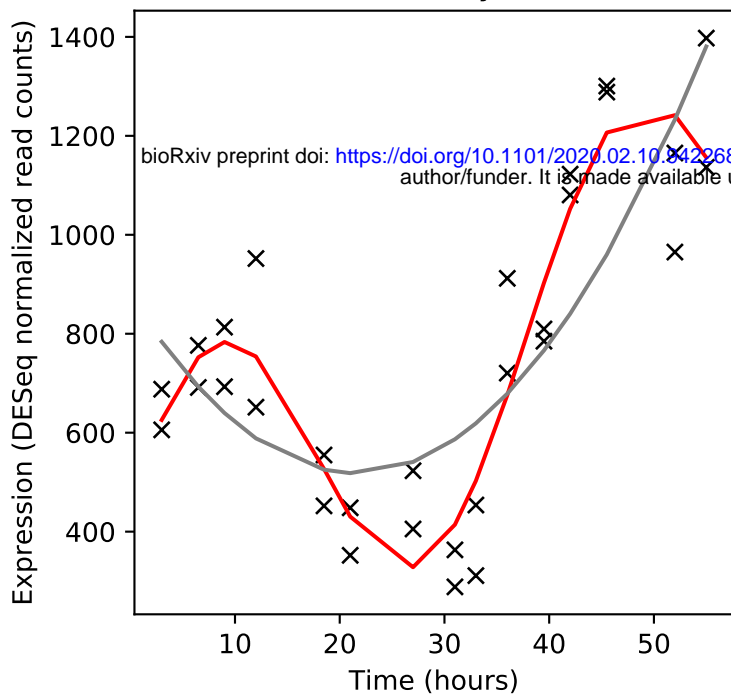
Rv0289/espG3



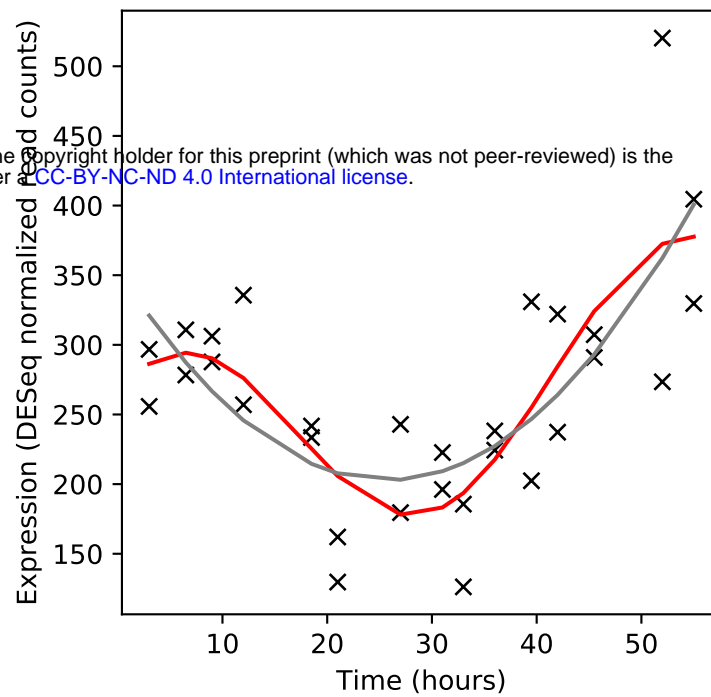
Rv0290/eccD3



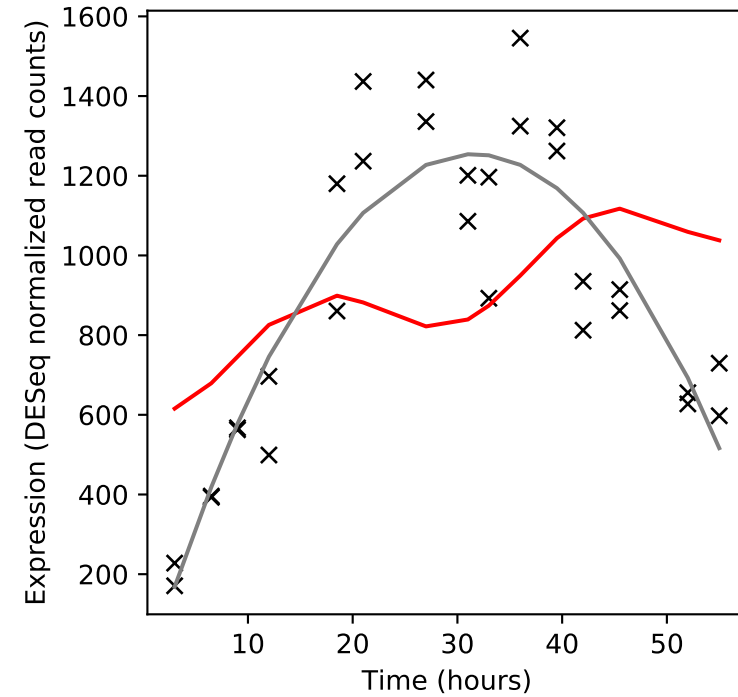
Rv0291/mycP3



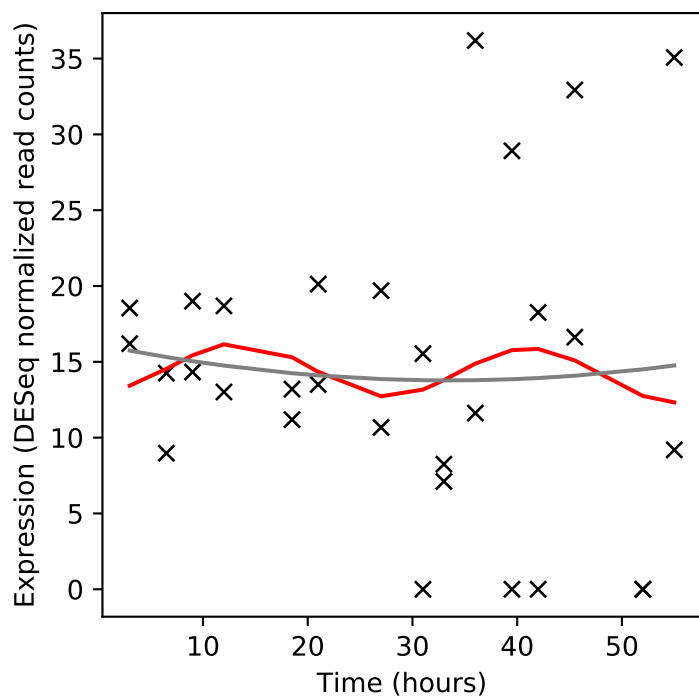
Rv0292/eccE3



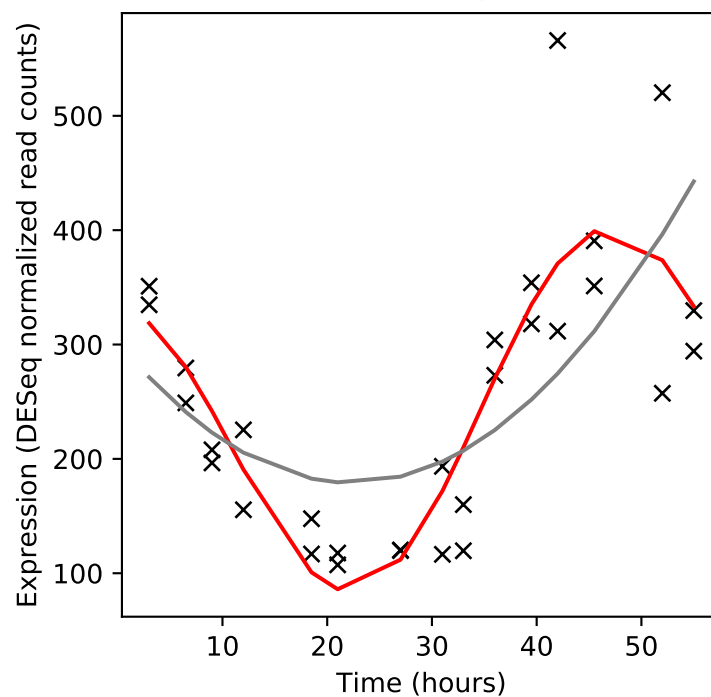
Rv0293c/-



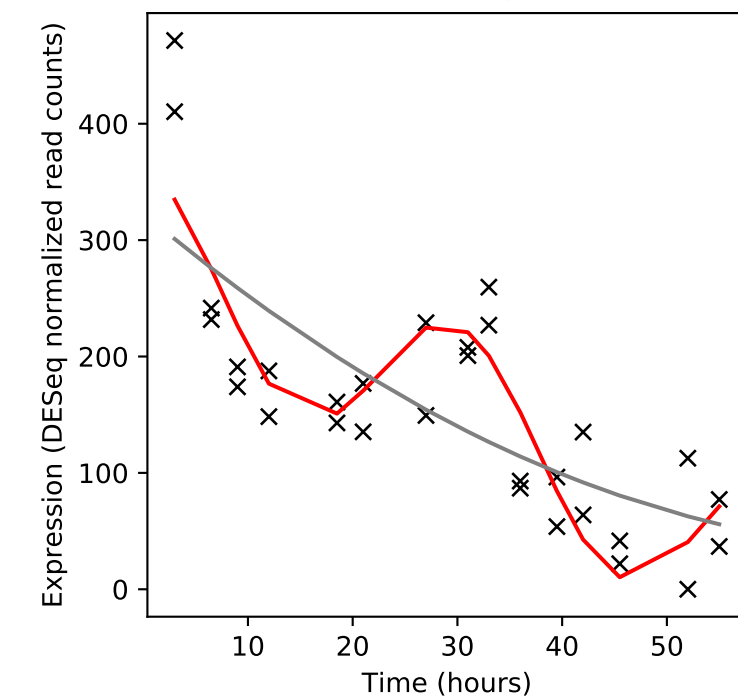
Rv0294/tam



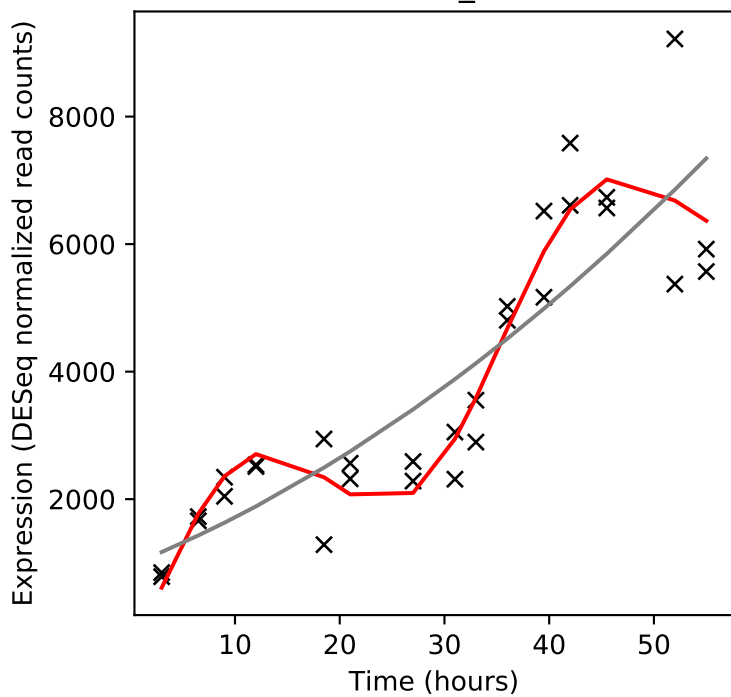
Rv0295c/-



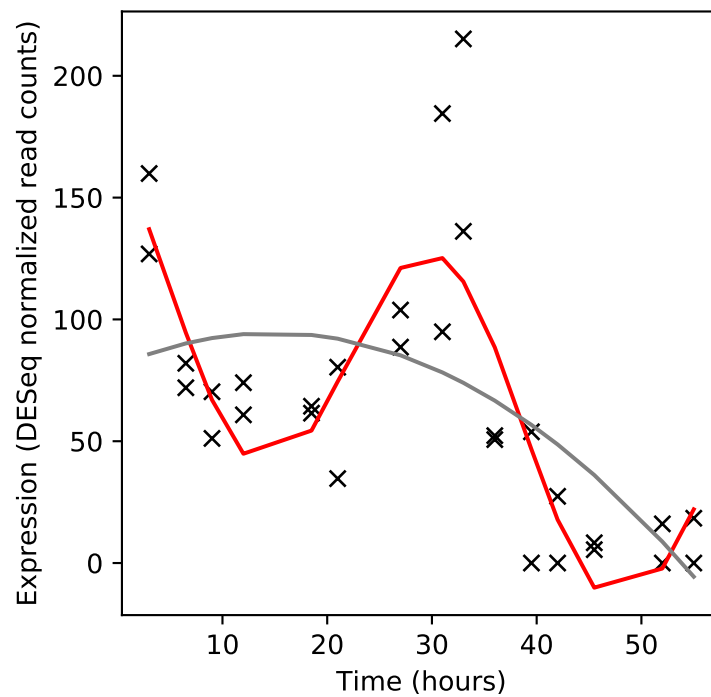
Rv0296c/-



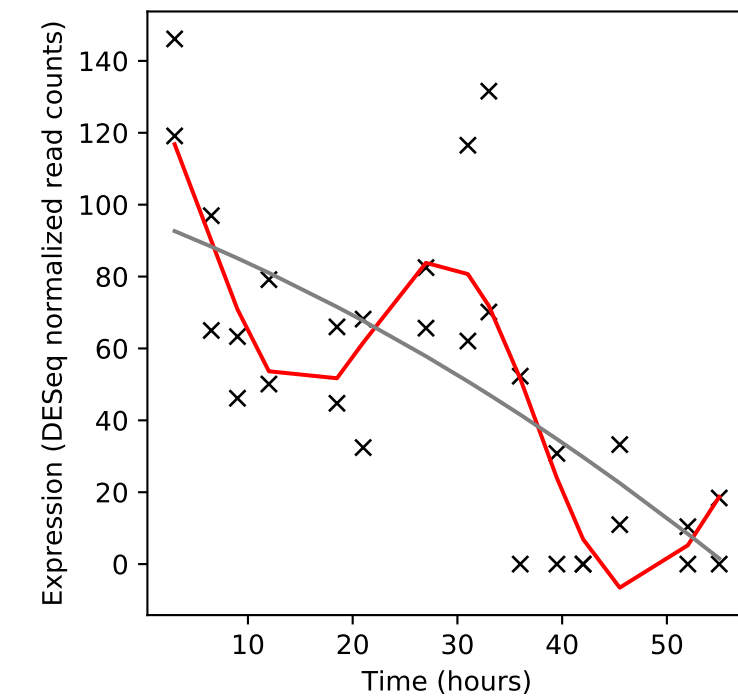
Rv0297/PE_PGRS5



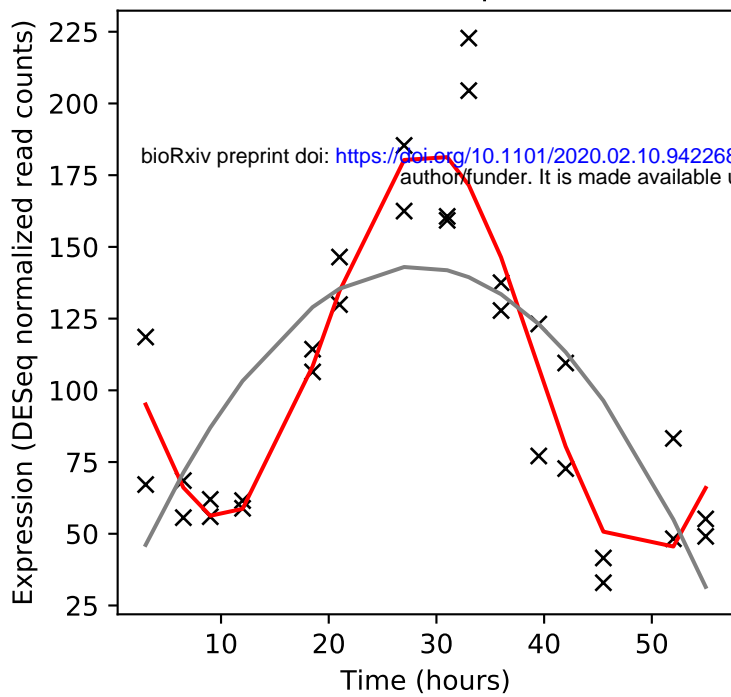
Rv0298/-



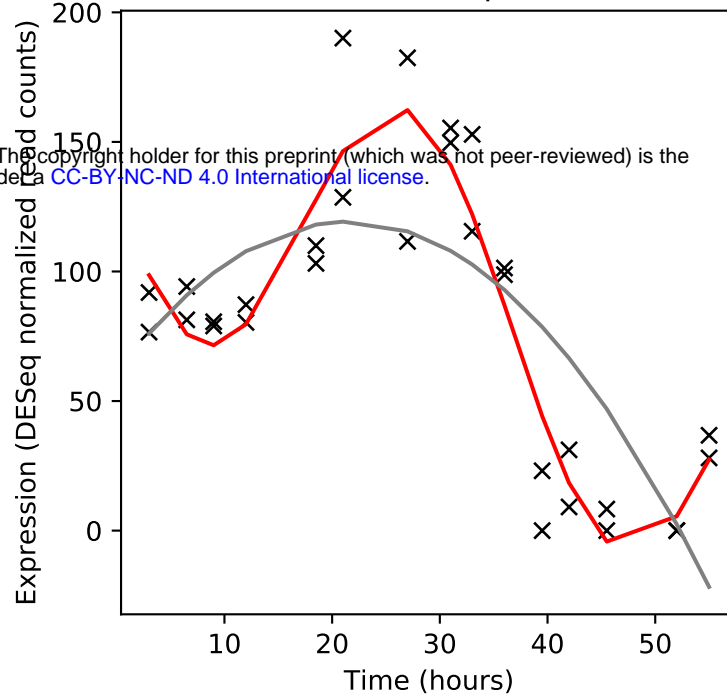
Rv0299/-



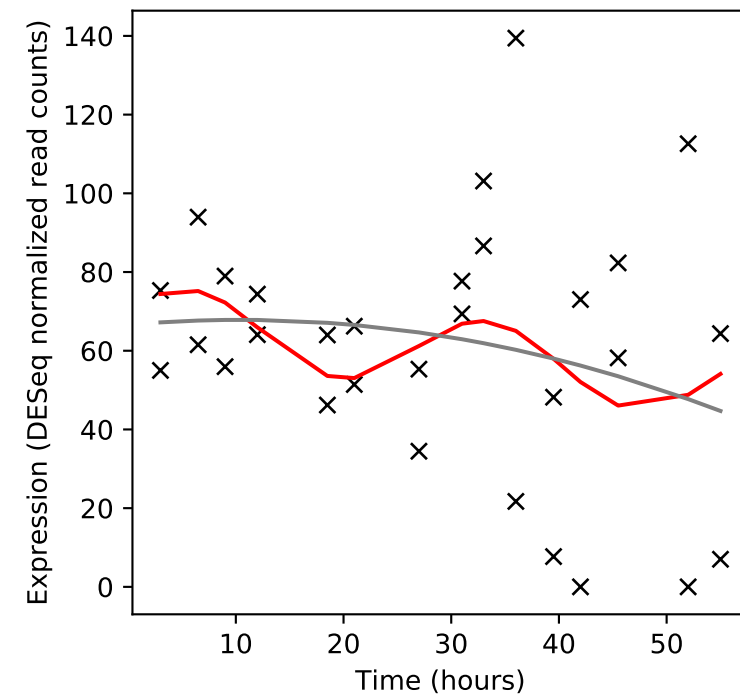
Rv0300/vapB2



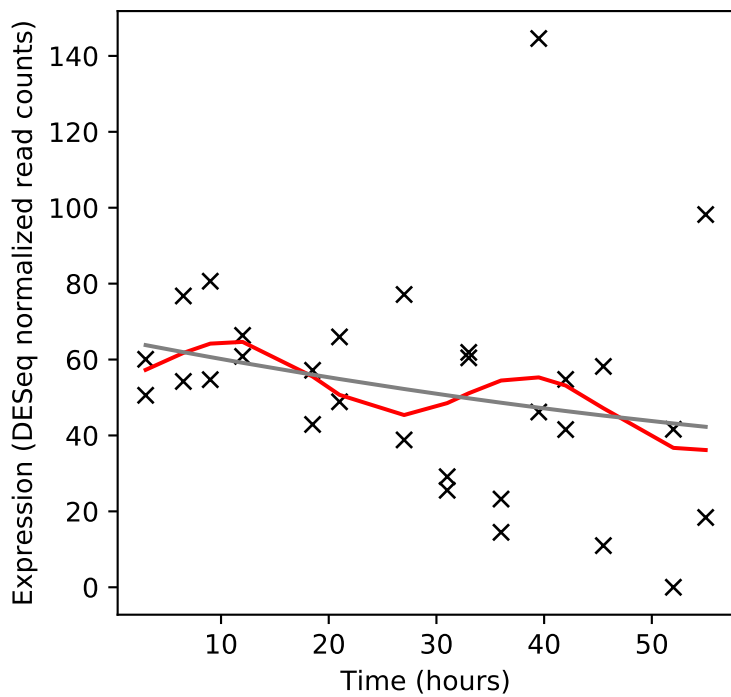
Rv0301/vapC2



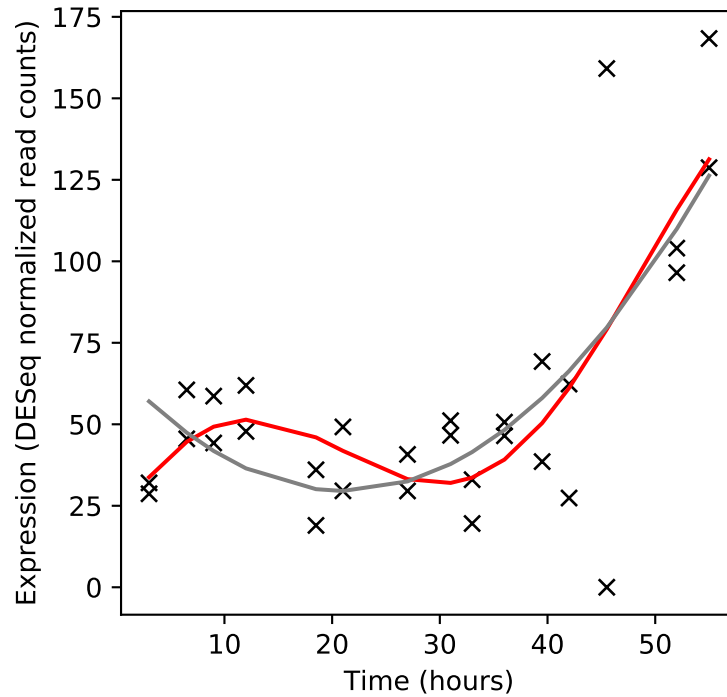
Rv0302/-



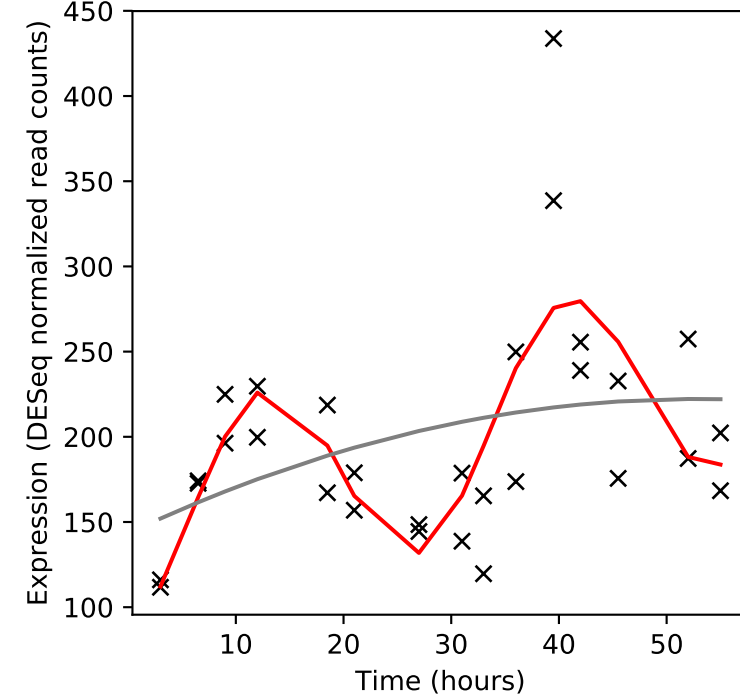
Rv0303/-



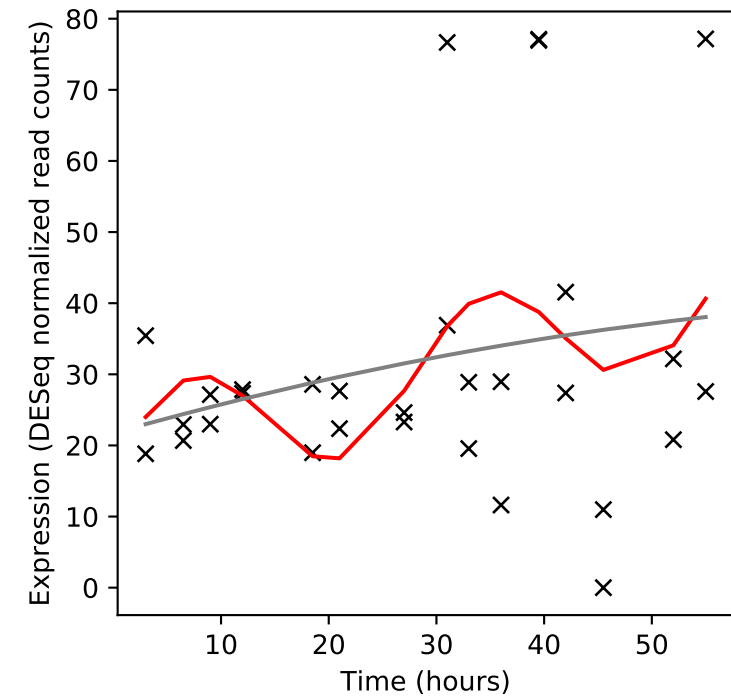
Rv0304c/PPE5



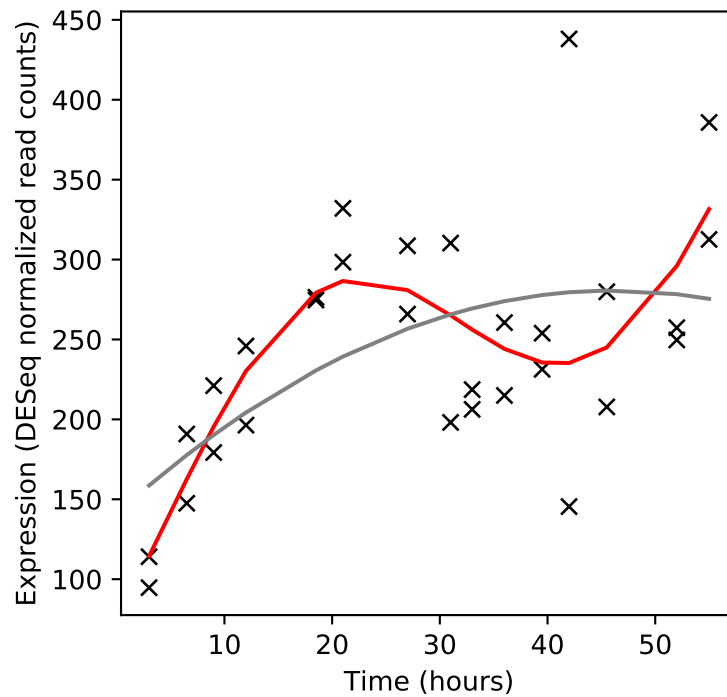
Rv0305c/PPE6



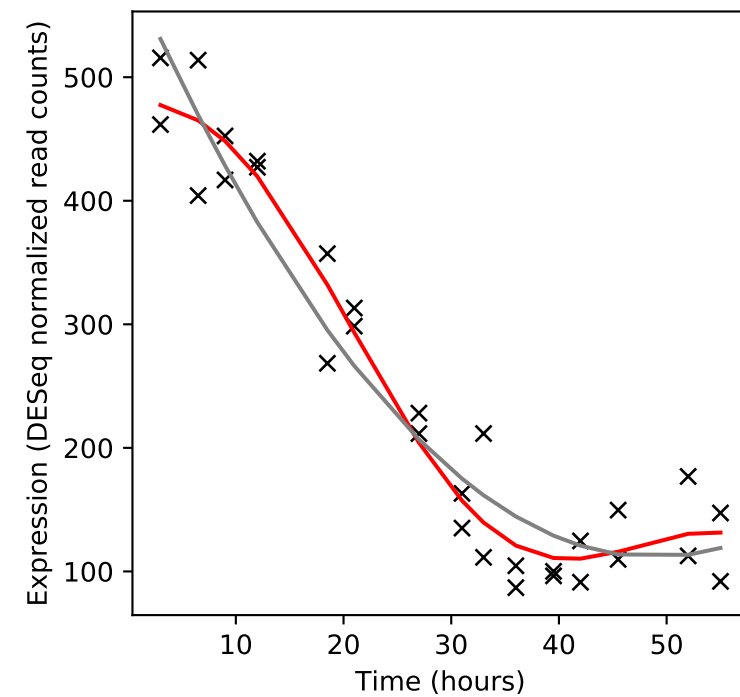
Rv0306/-



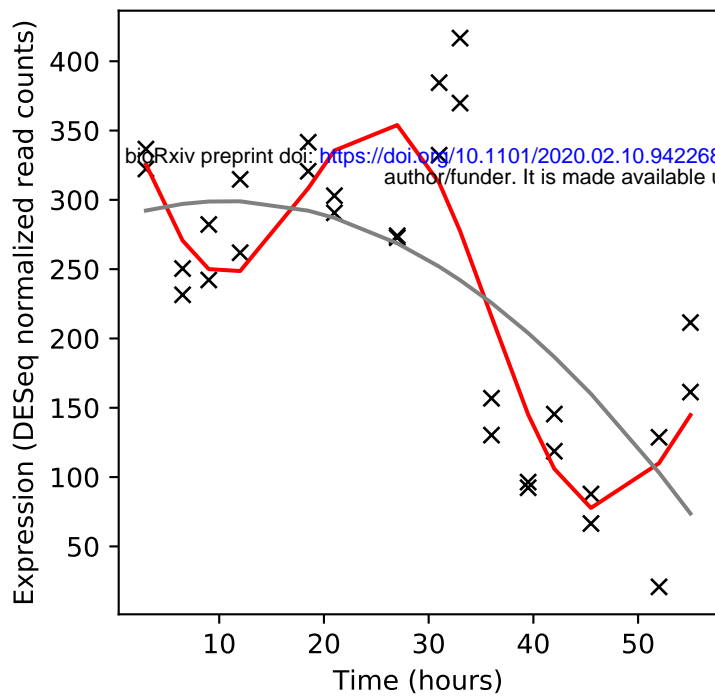
Rv0307c/-



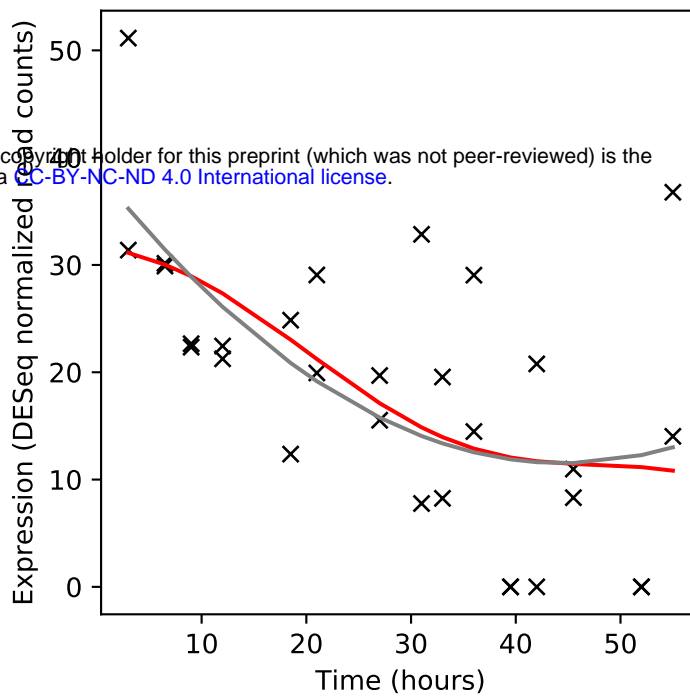
Rv0308/-



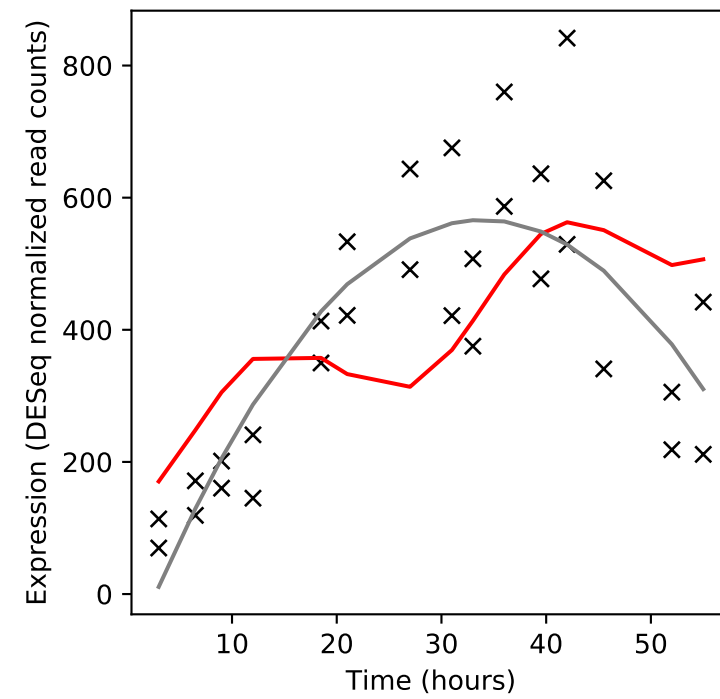
Rv0309/-



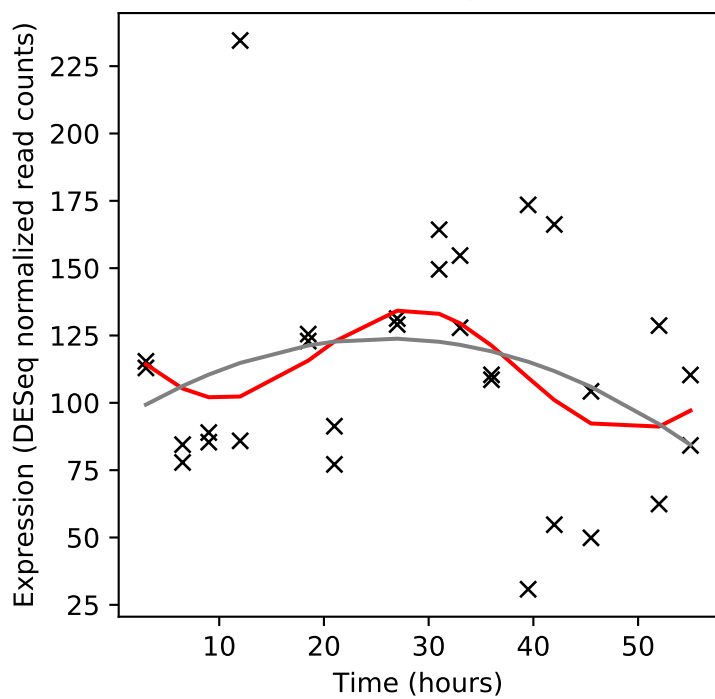
Rv0310c/-



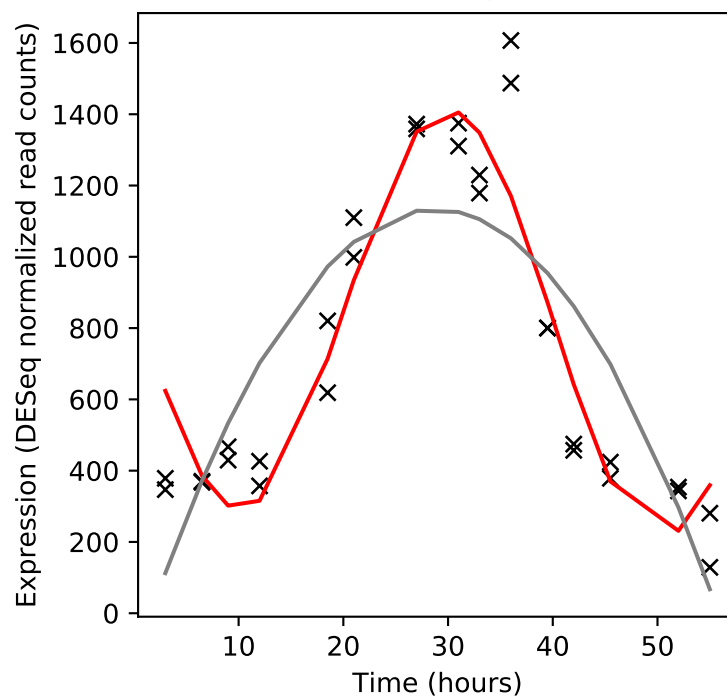
Rv0311/-



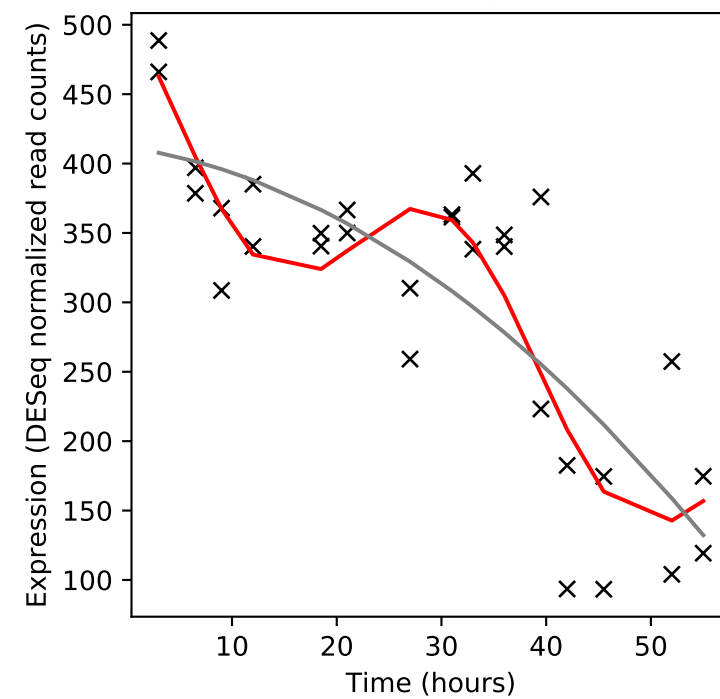
Rv0312/-



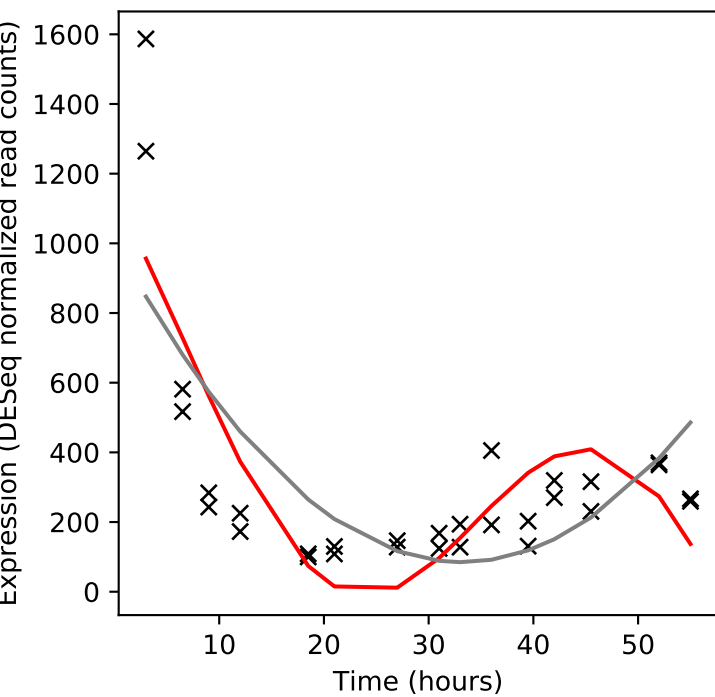
Rv0313/-



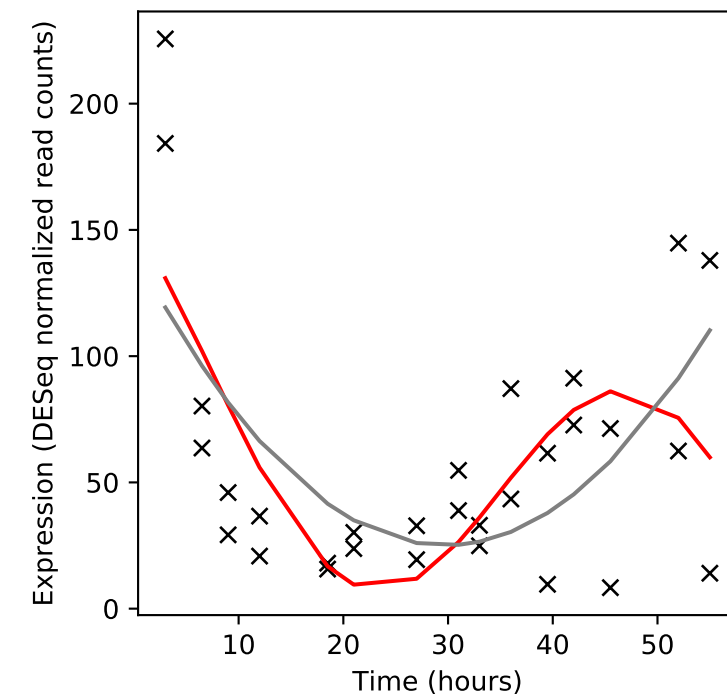
Rv0314c/-



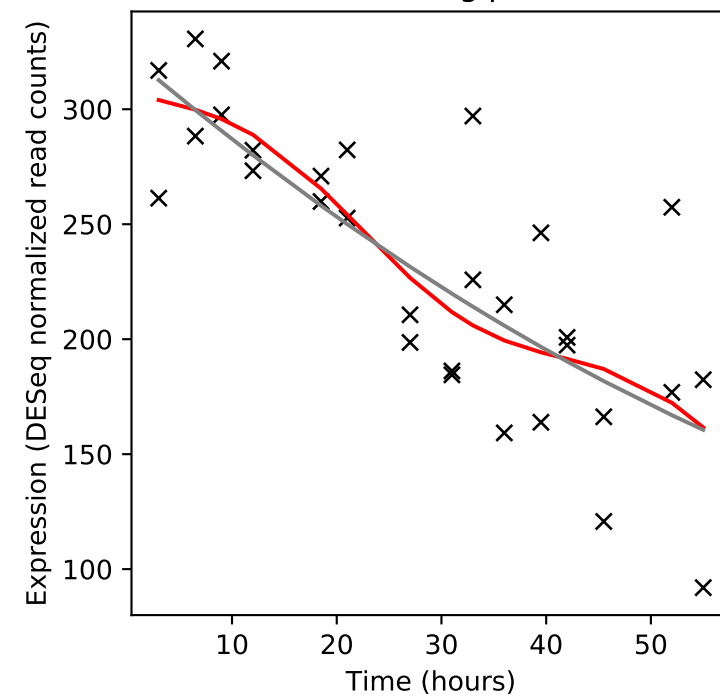
Rv0315/-



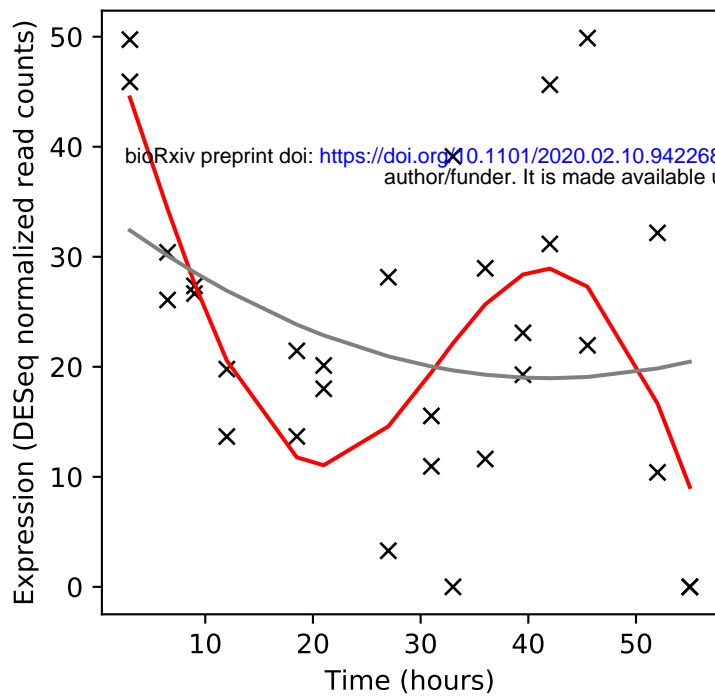
Rv0316/-



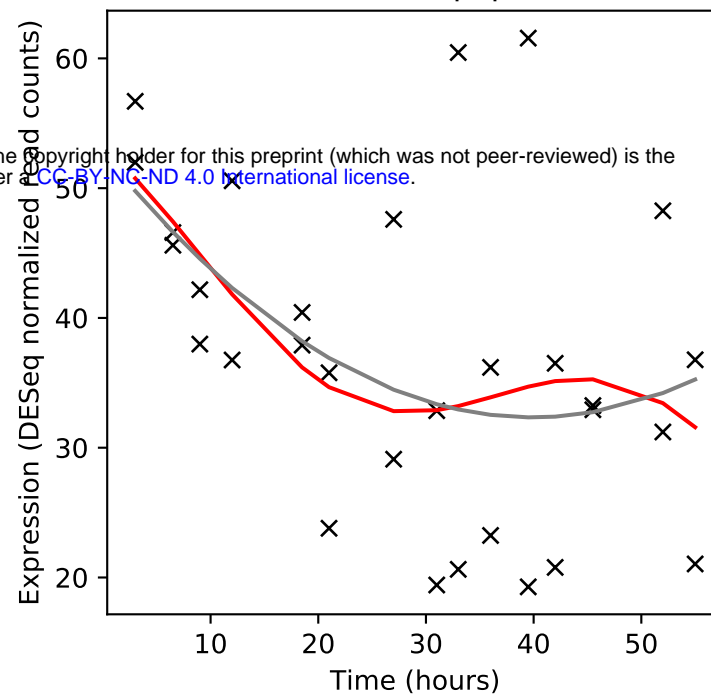
Rv0317c/glpQ2



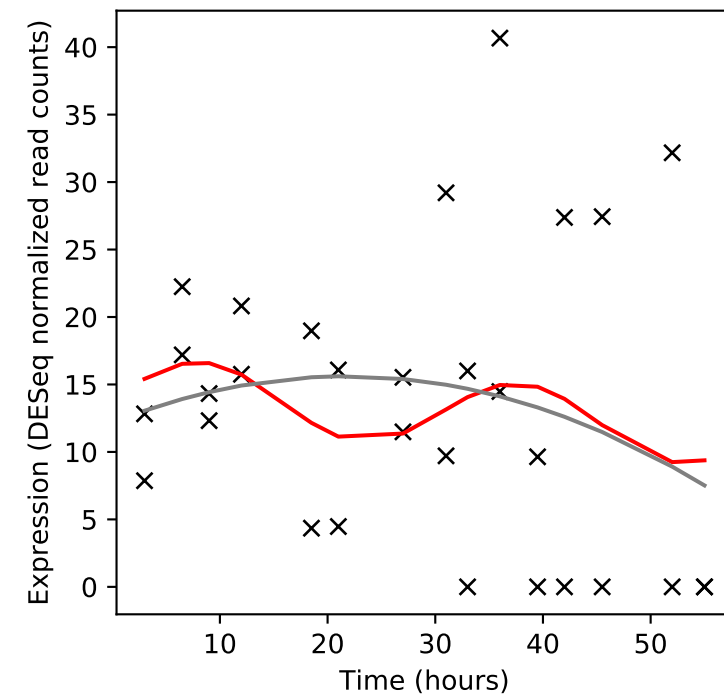
Rv0318c/-



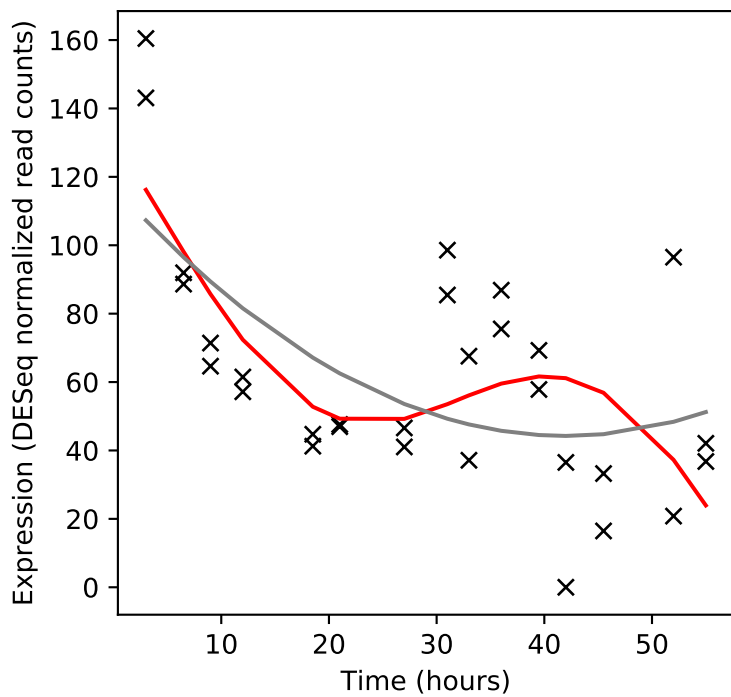
Rv0319/pcp



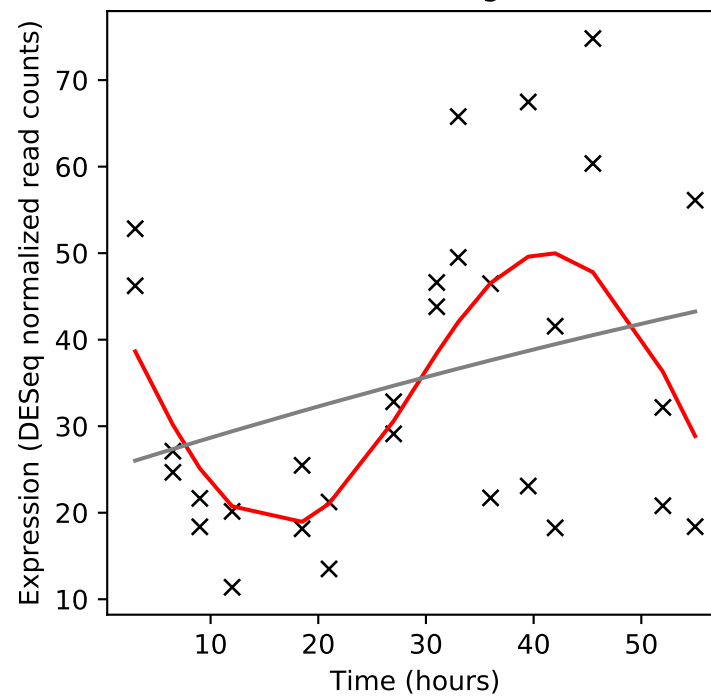
Rv0320/-



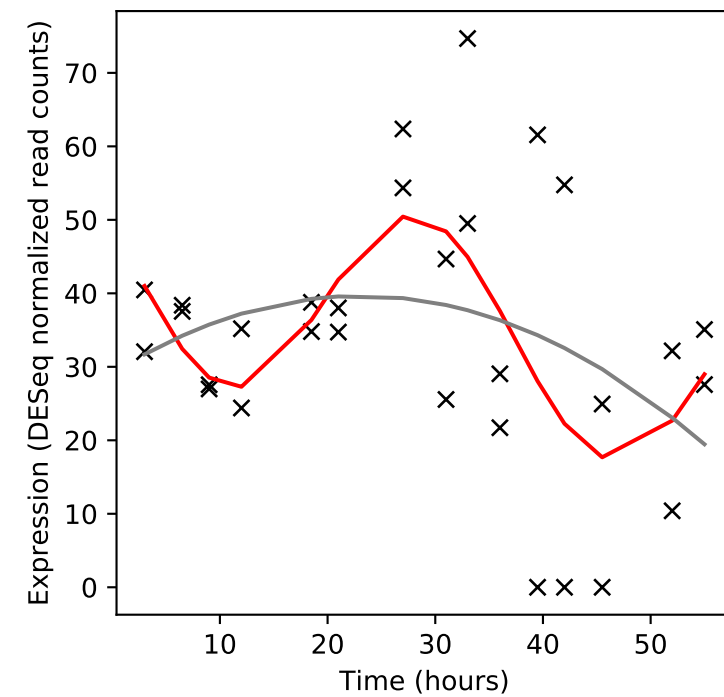
Rv0321/dcd



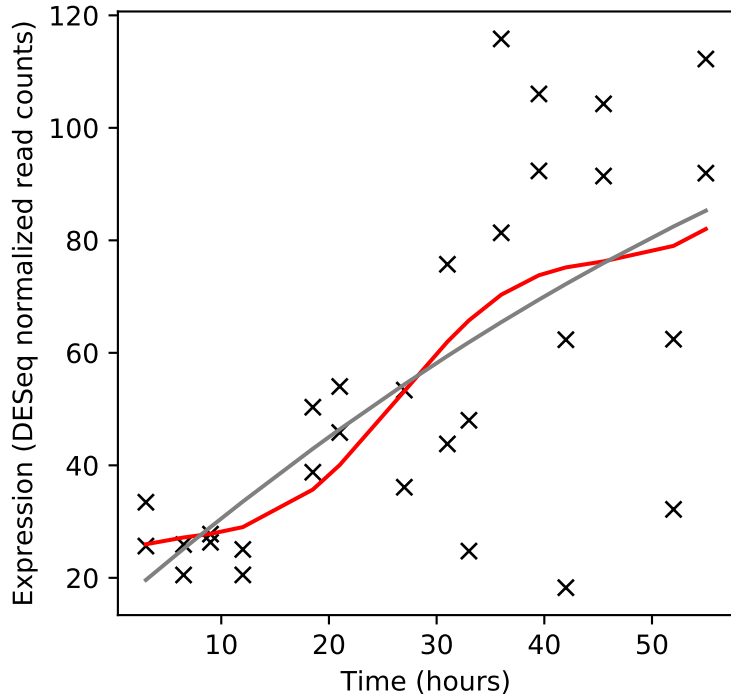
Rv0322/udgA



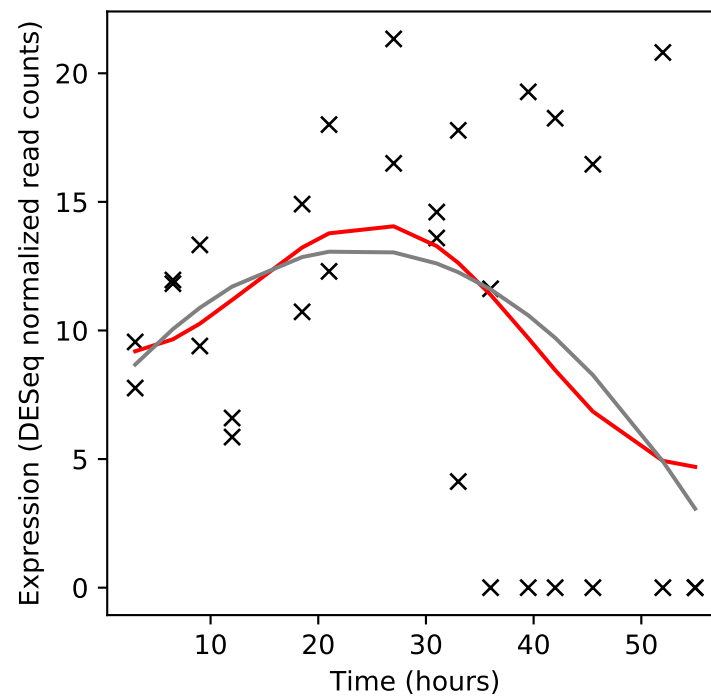
Rv0323c/-



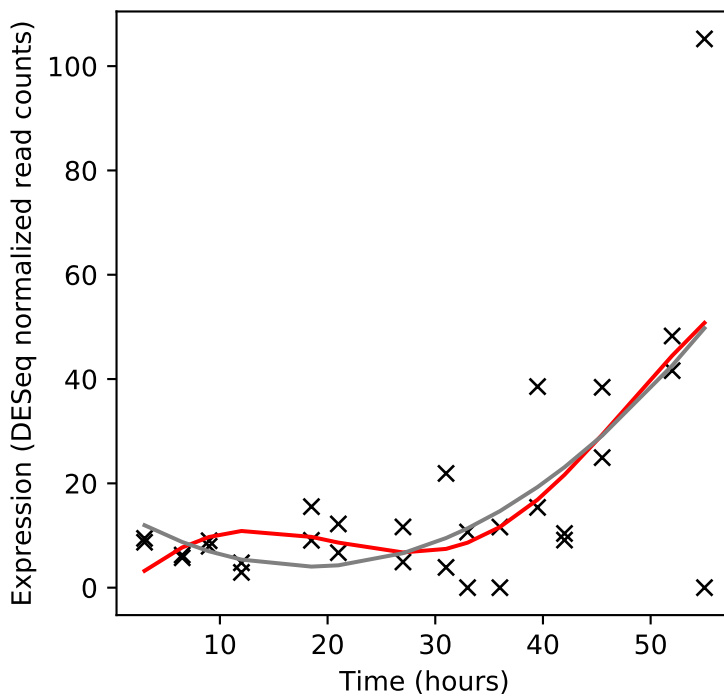
Rv0324/-



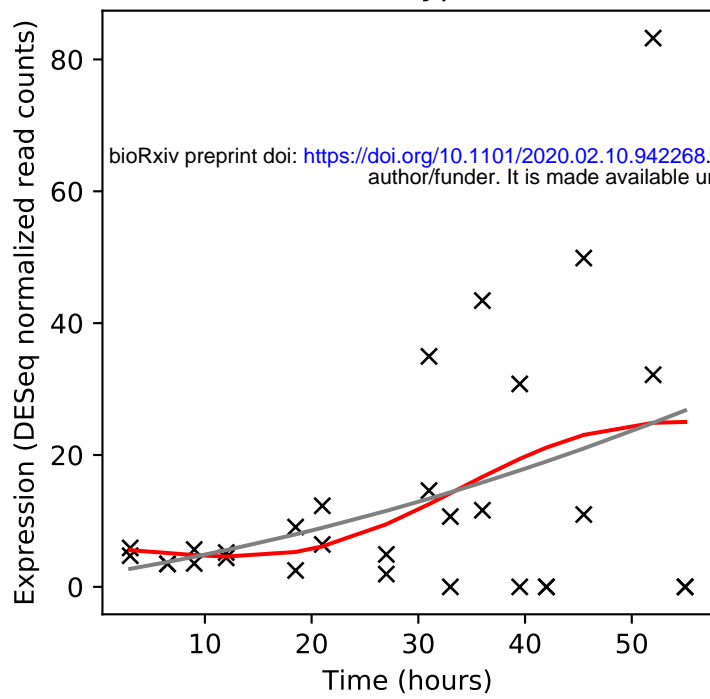
Rv0325/-



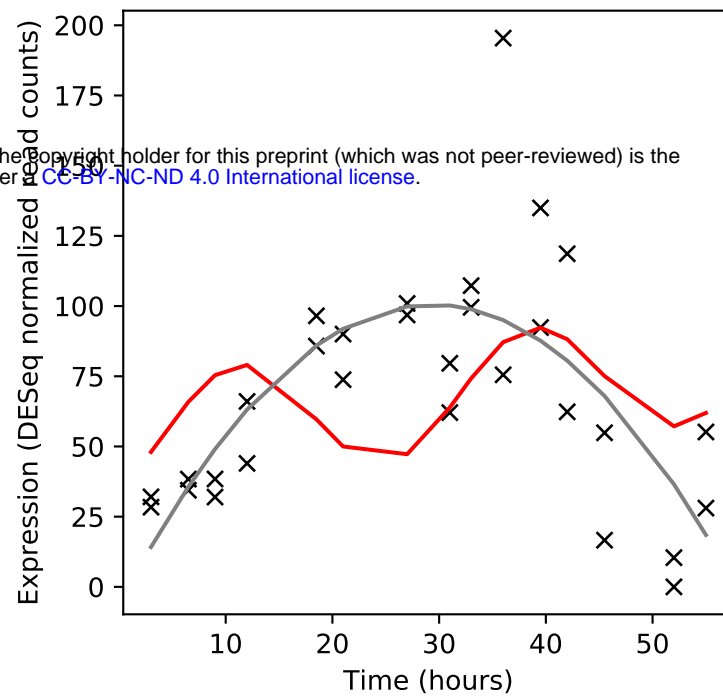
Rv0326/-



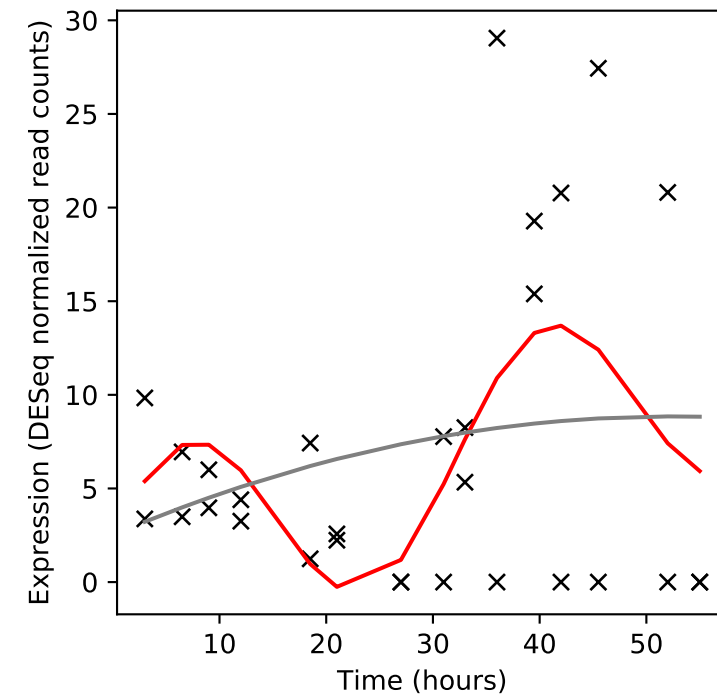
Rv0327c/cyp135A1



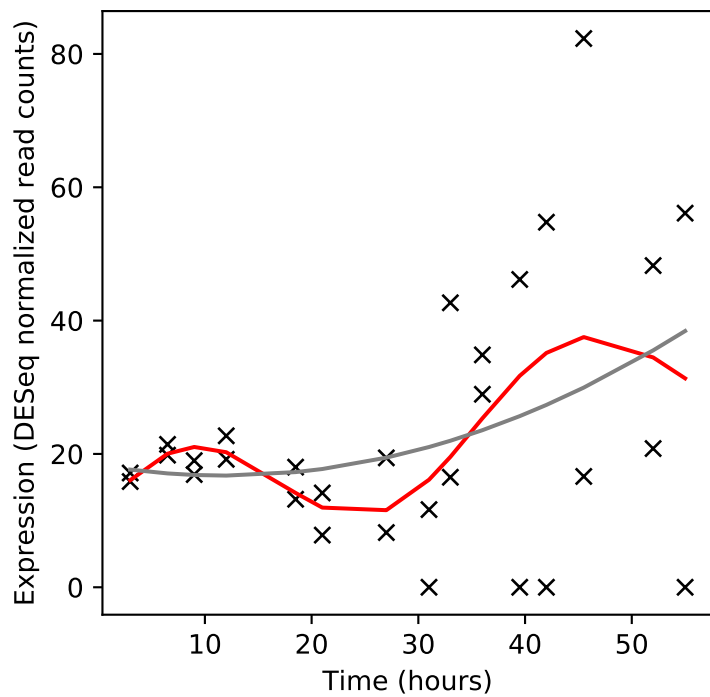
Rv0328/-



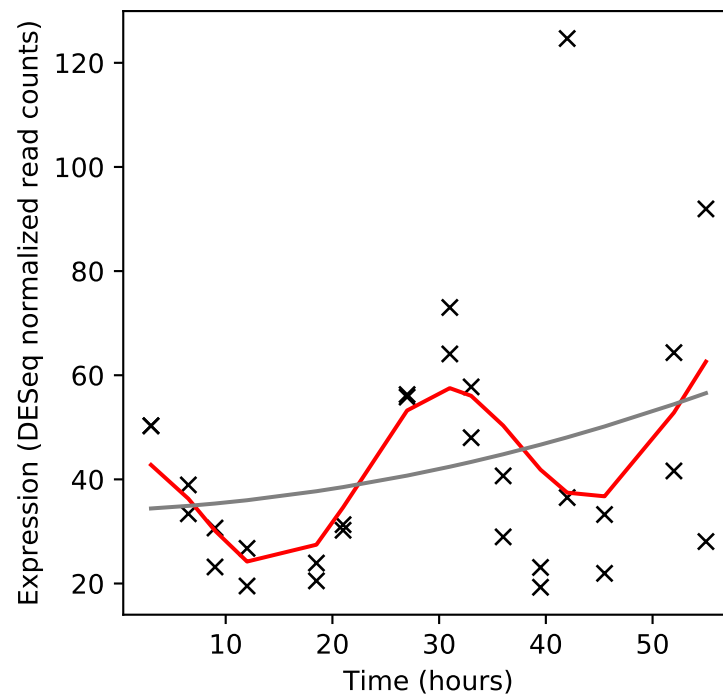
Rv0329c/-



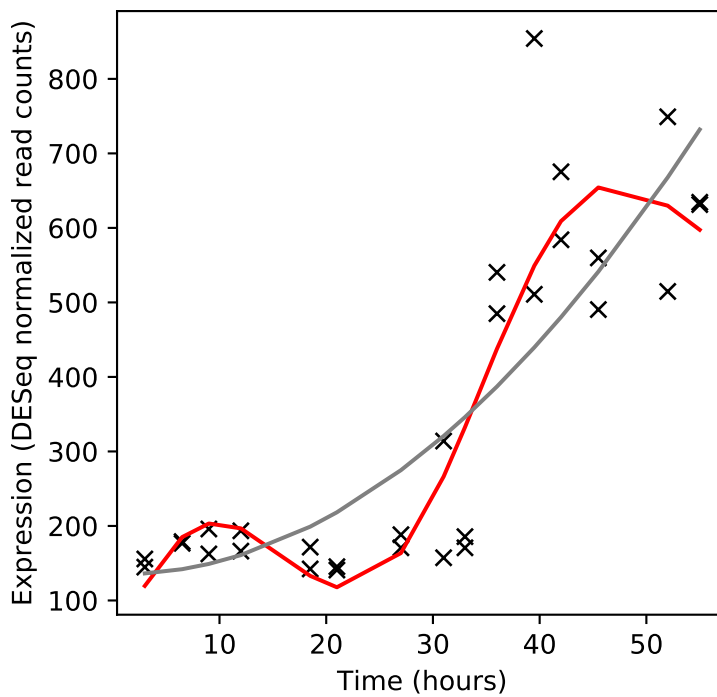
Rv0330c/-



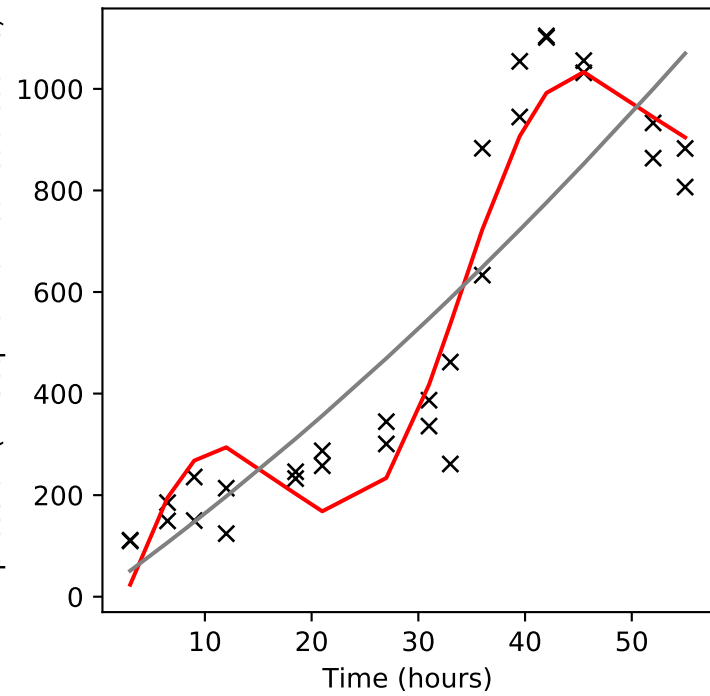
Rv0331/-



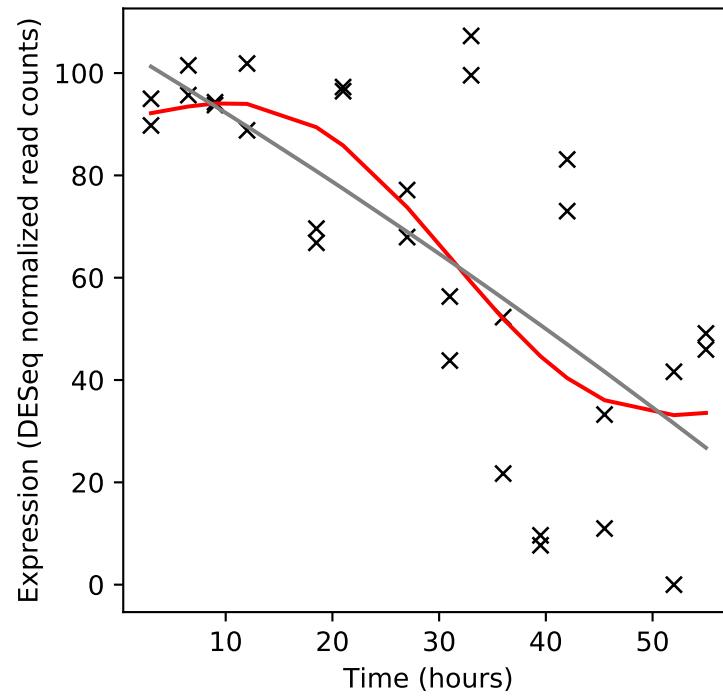
Rv0332/-



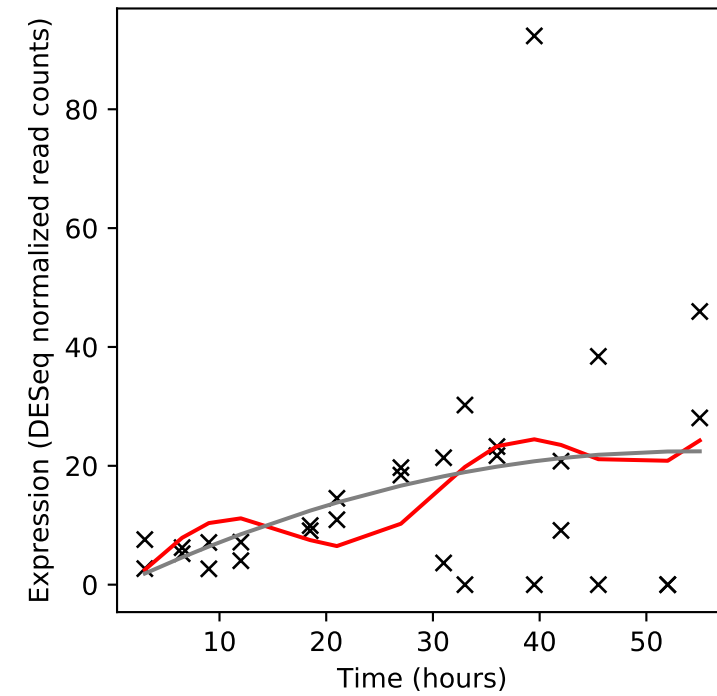
Rv0333/-



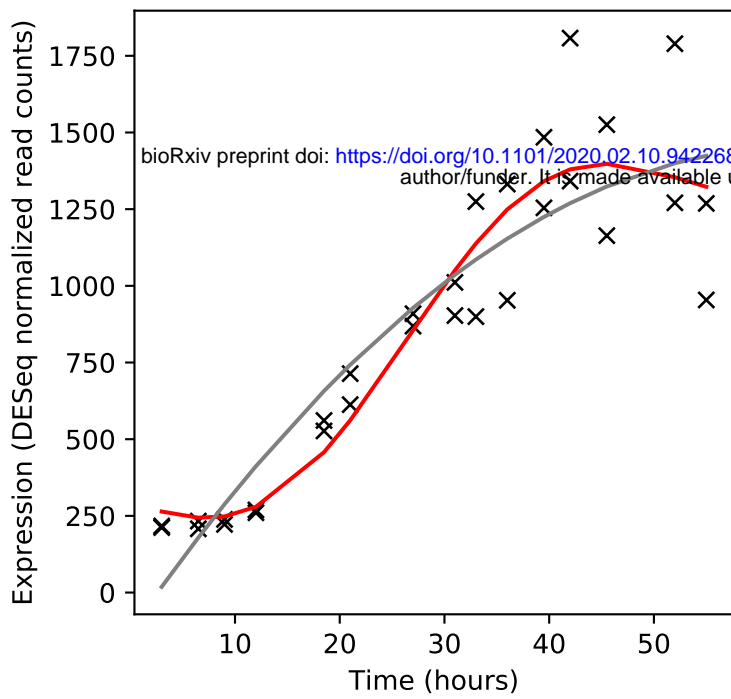
Rv0334/rmlA



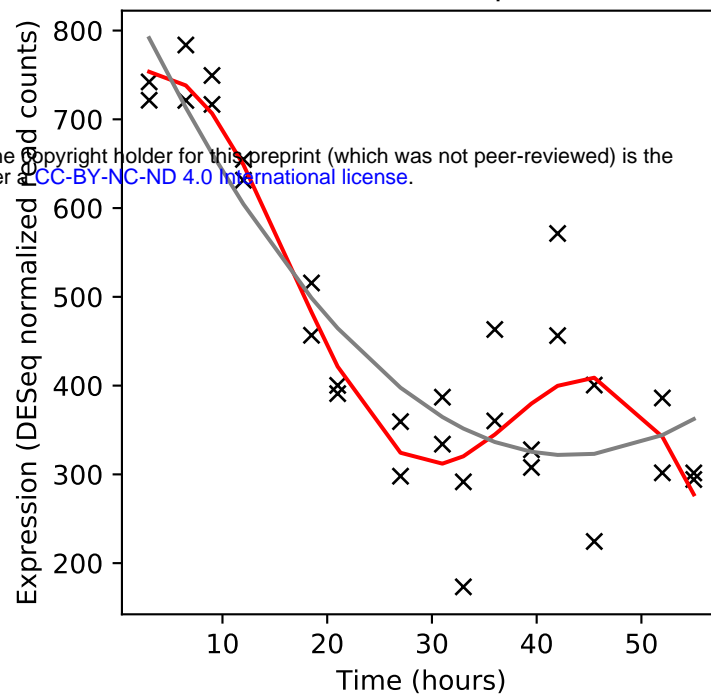
Rv0335c/PE6



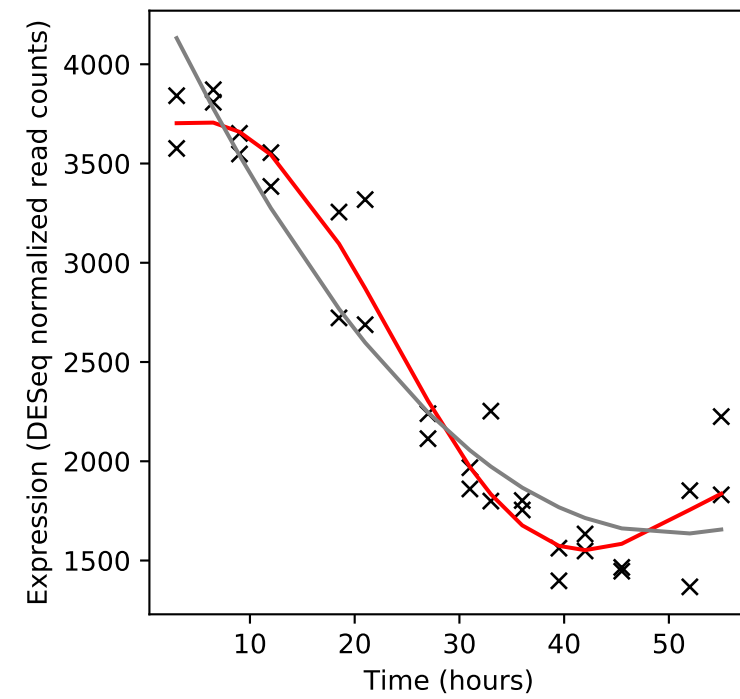
Rv0336/-



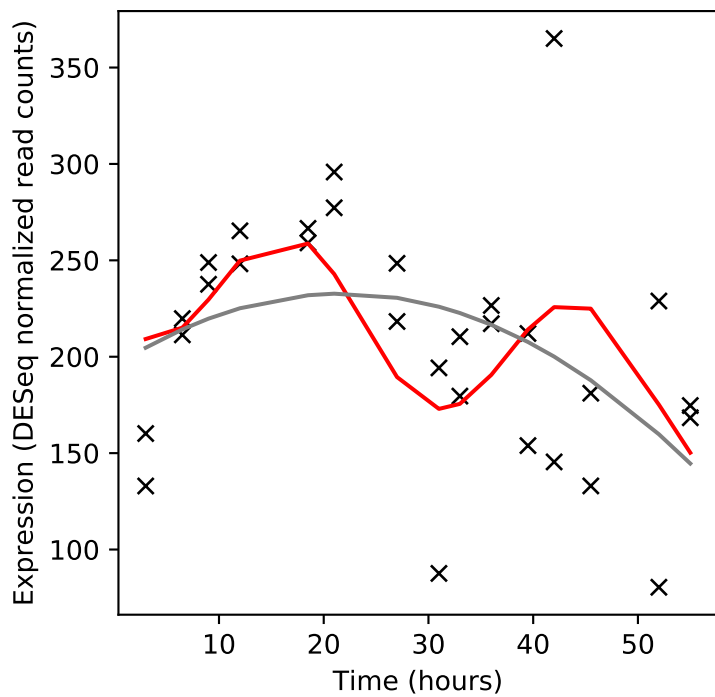
Rv0337c/aspC



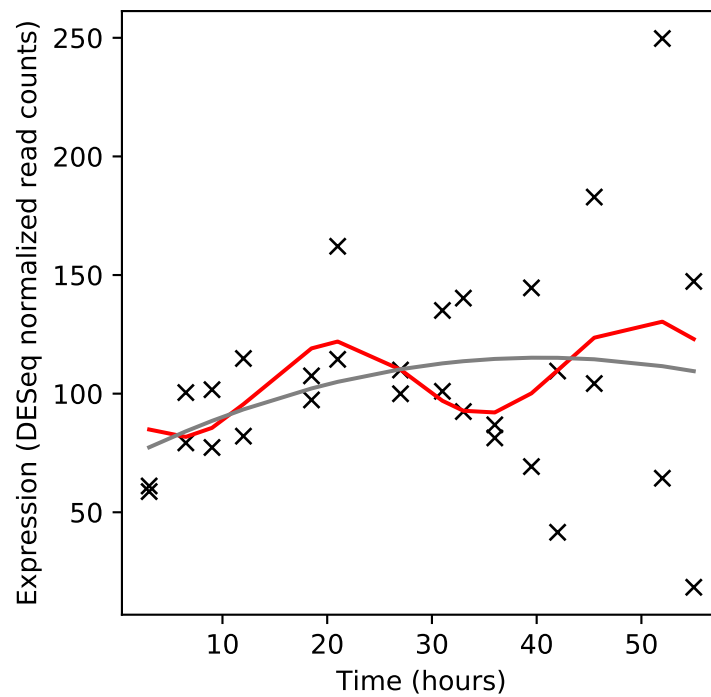
Rv0338c/-



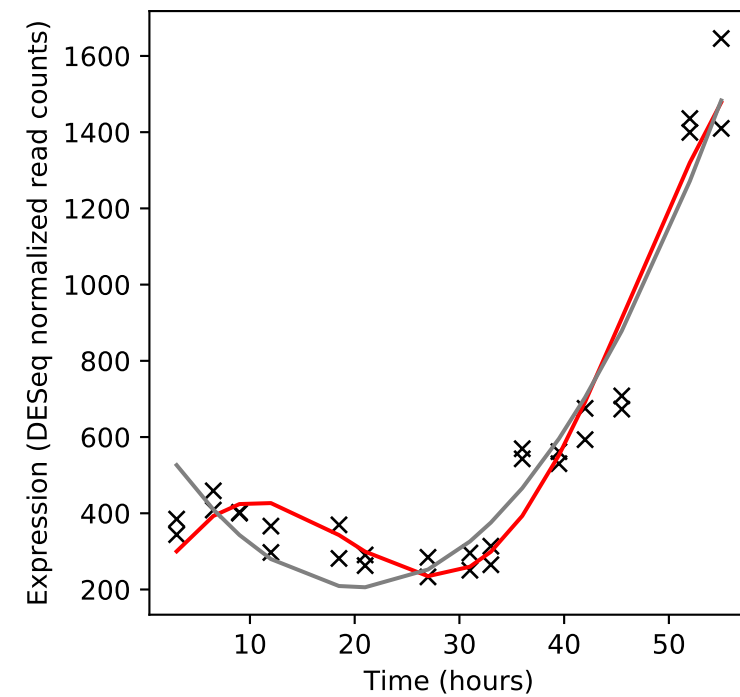
Rv0339c/-



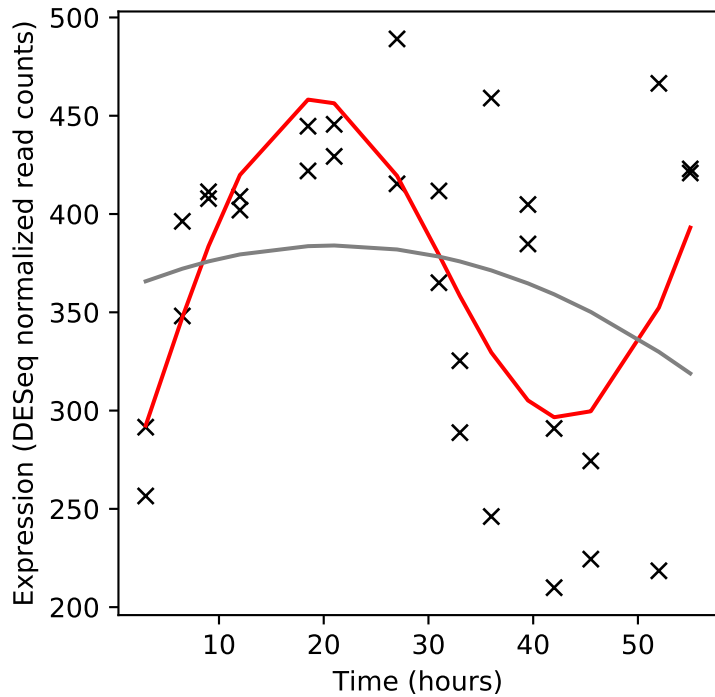
Rv0340/-



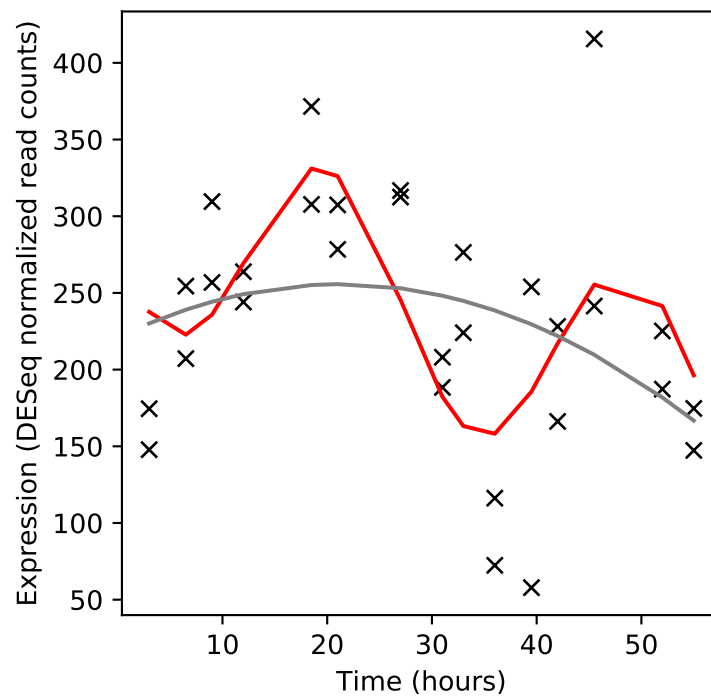
Rv0341/iniB



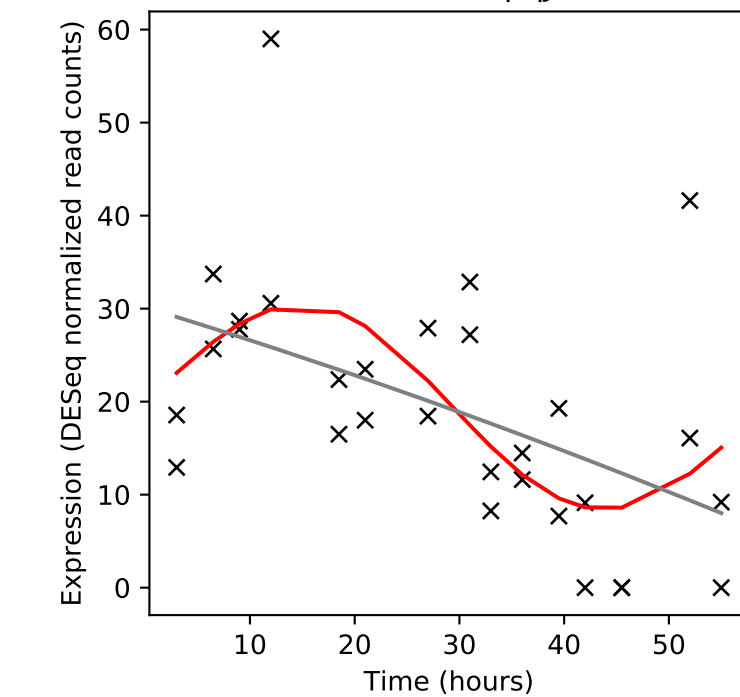
Rv0342/iniA



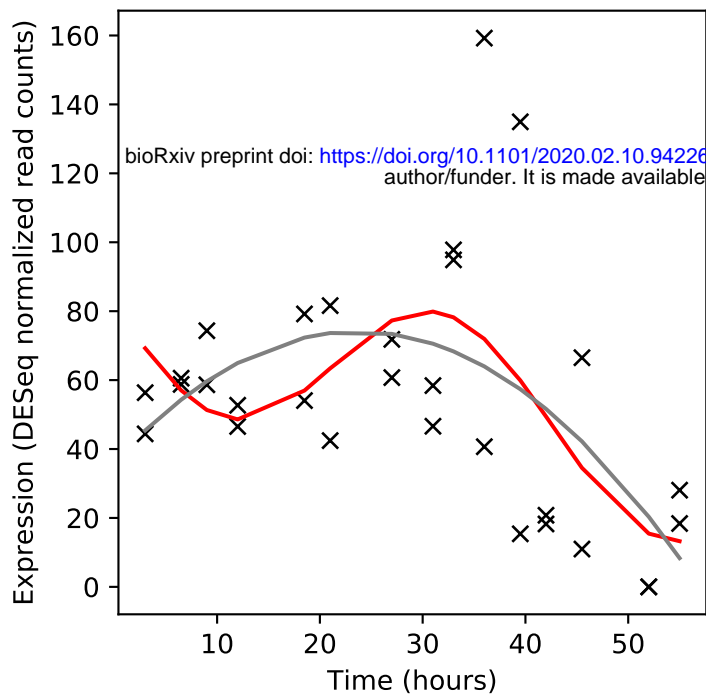
Rv0343/iniC



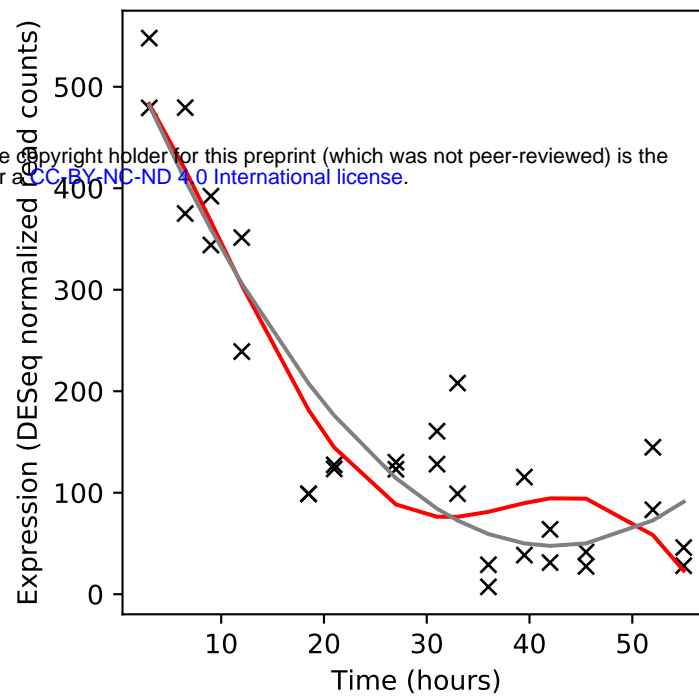
Rv0344c/lpqj



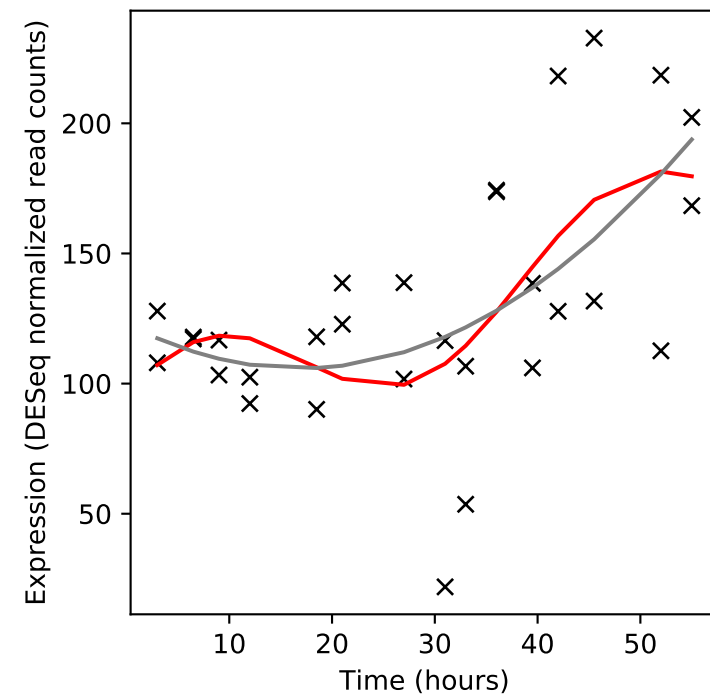
Rv0345/-



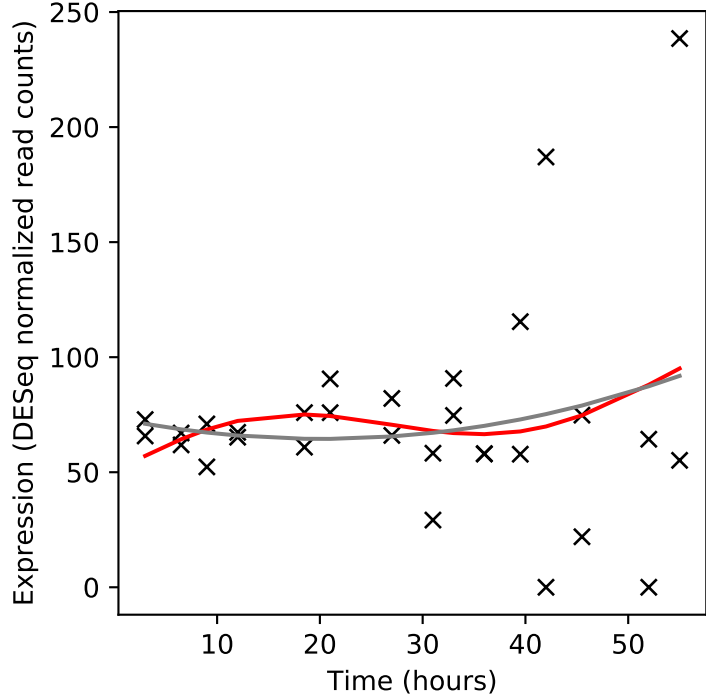
Rv0346c/ansP2



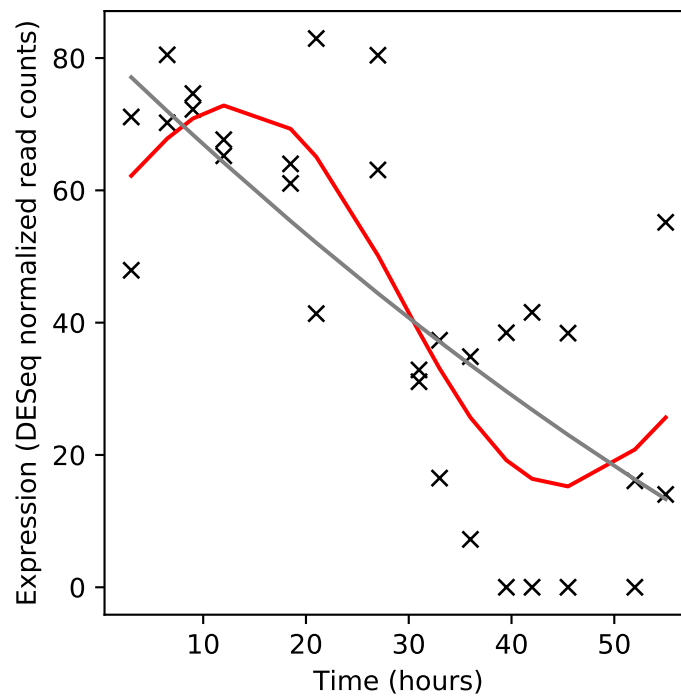
Rv0347/-



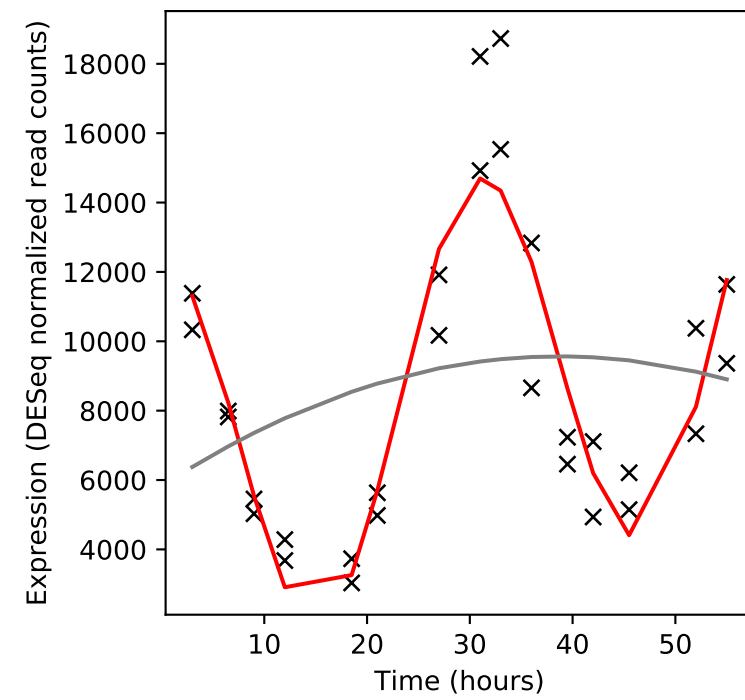
Rv0348/-



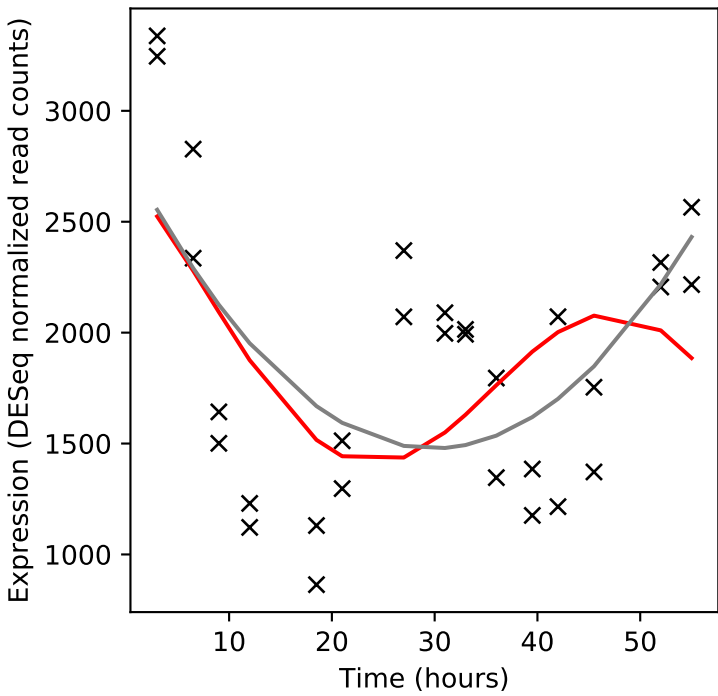
Rv0349/-



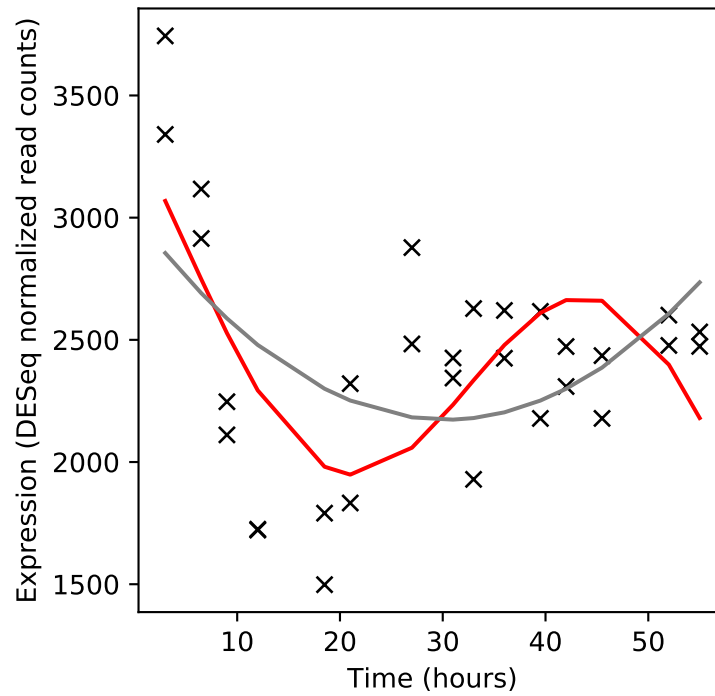
Rv0350/dnaK



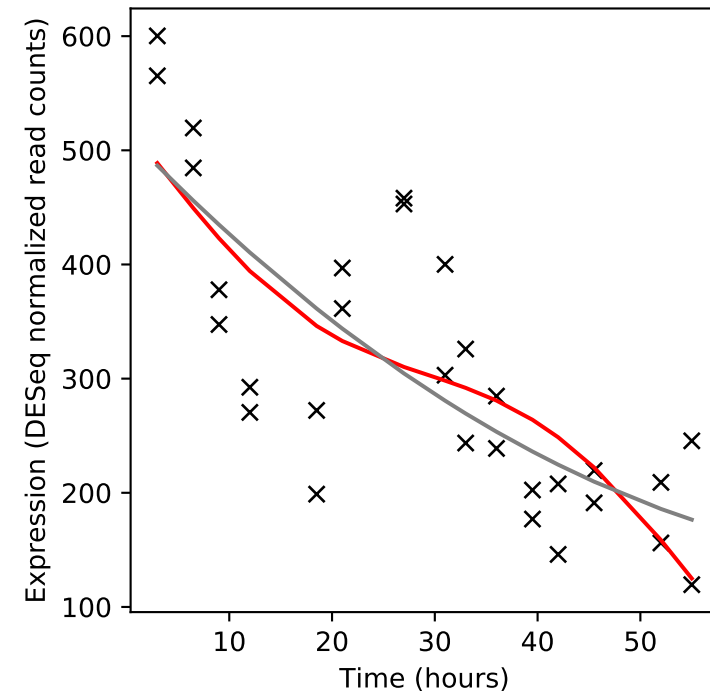
Rv0351/grpE



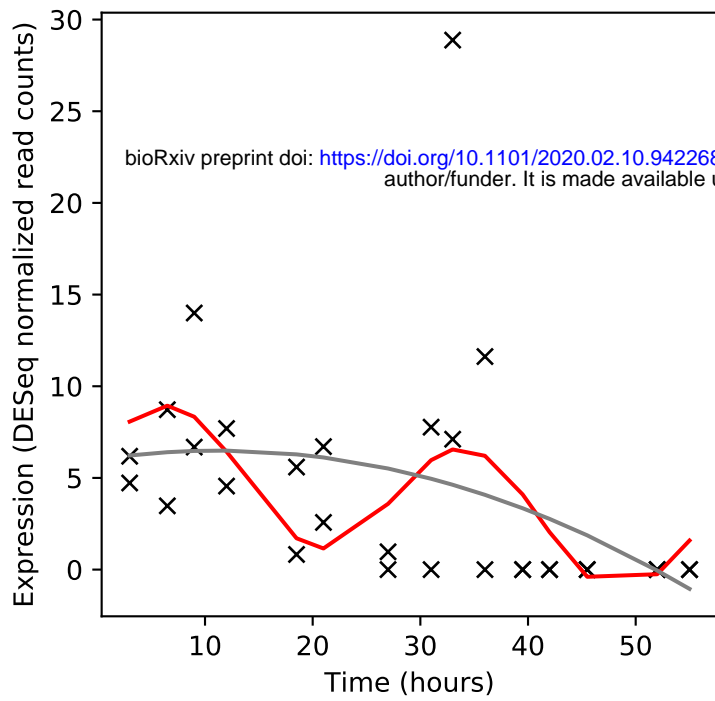
Rv0352/dnaJ1



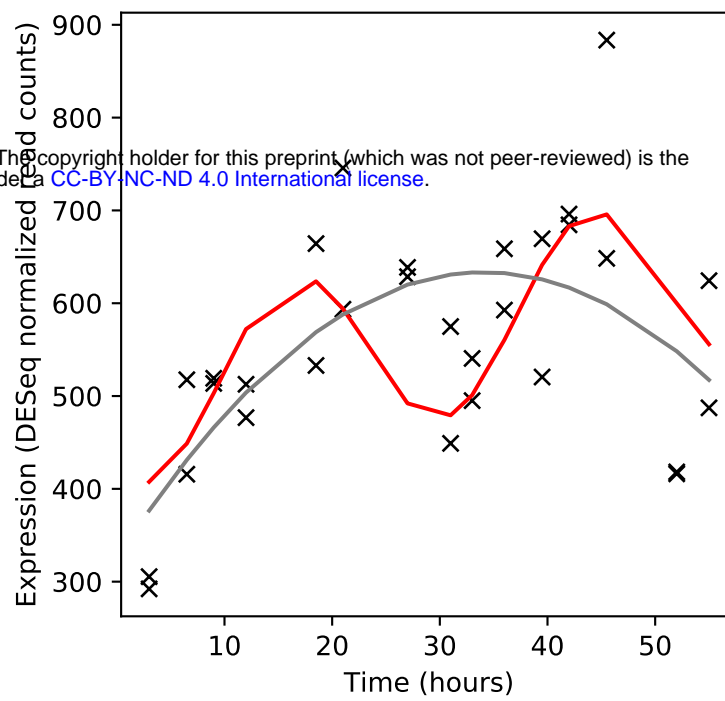
Rv0353/hspR



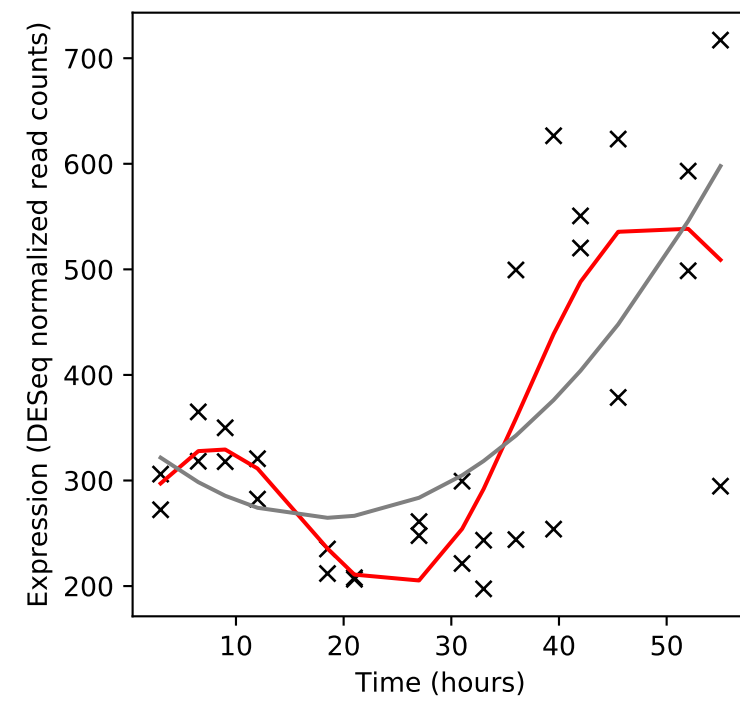
Rv0354c/PPE7



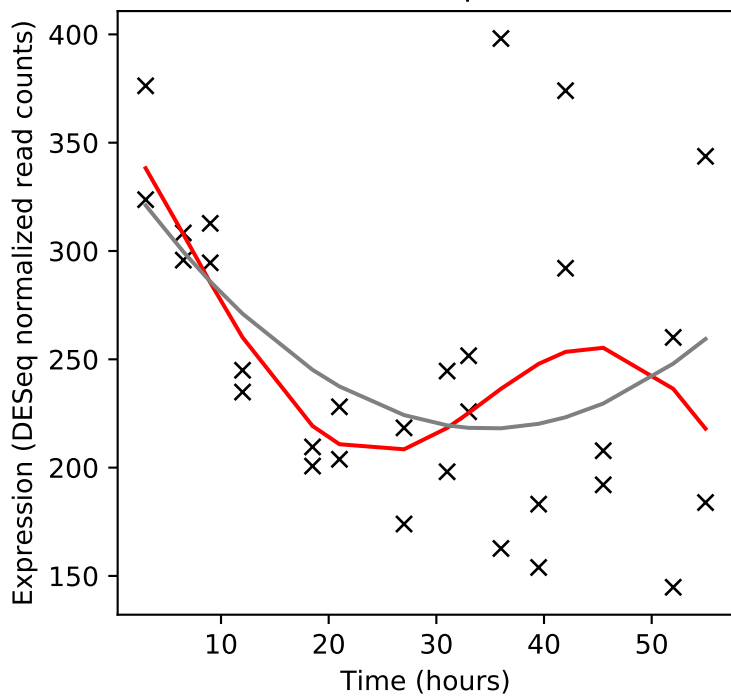
Rv0355c/PPE8



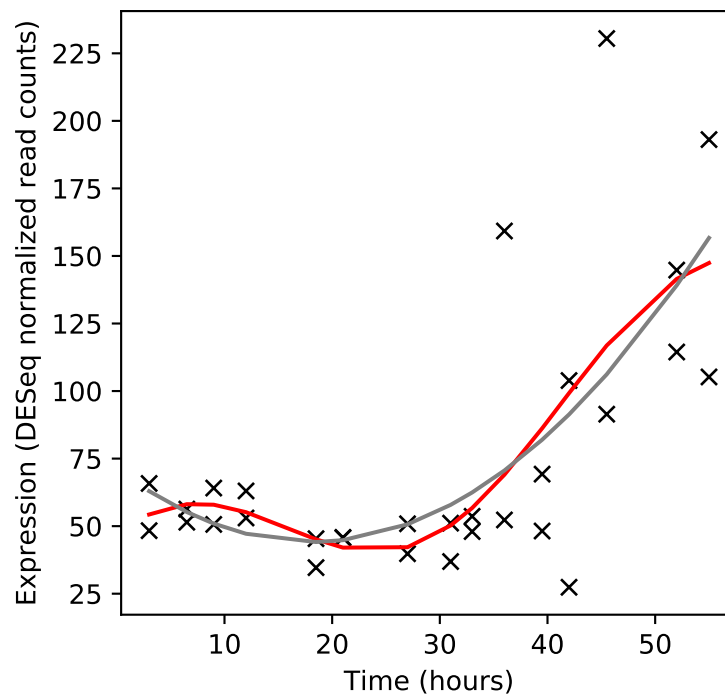
Rv0356c/-



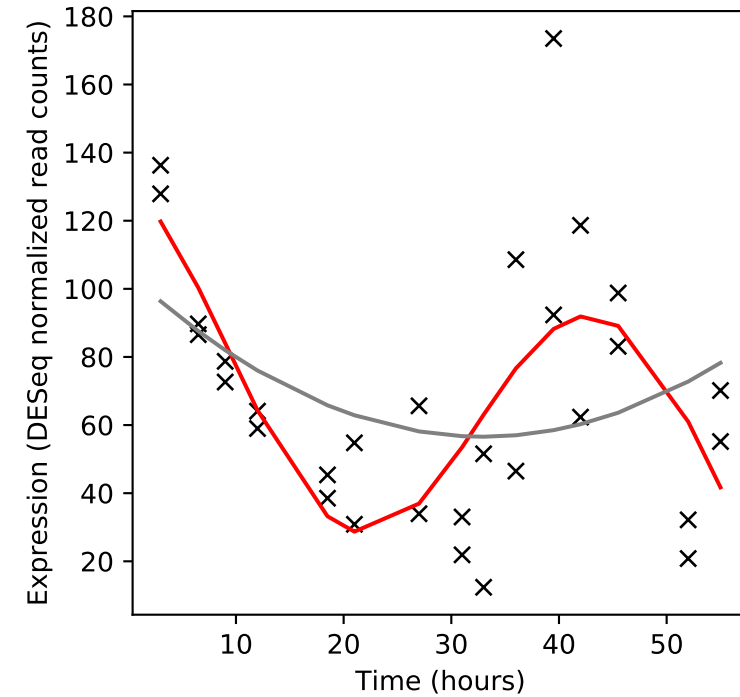
Rv0357c/purA



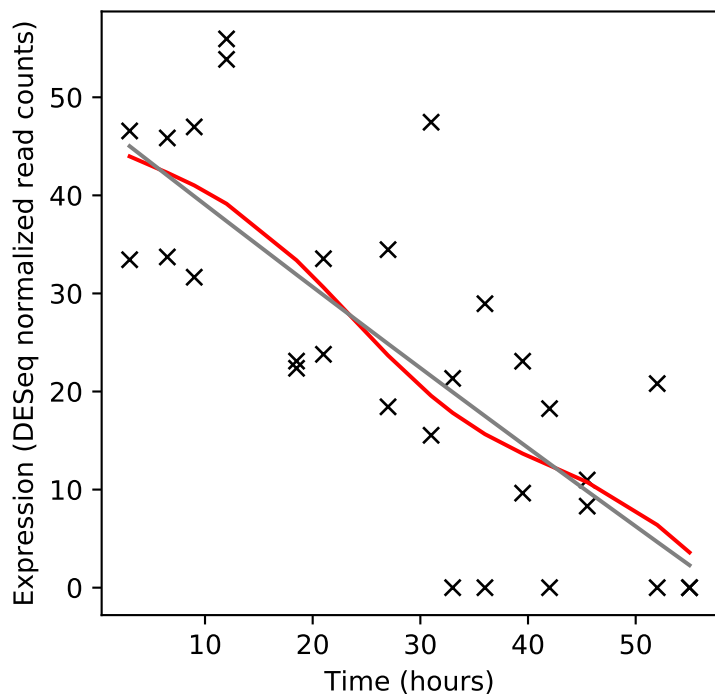
Rv0358/-



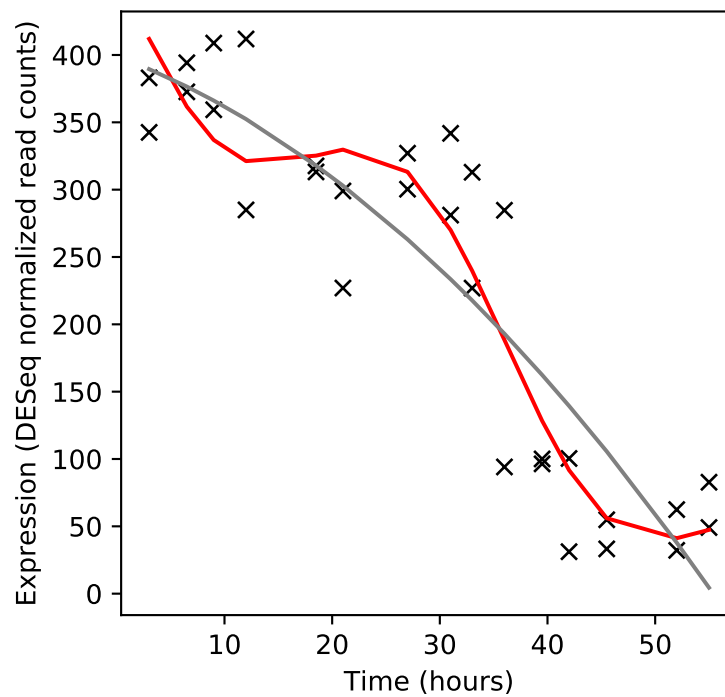
Rv0359/-



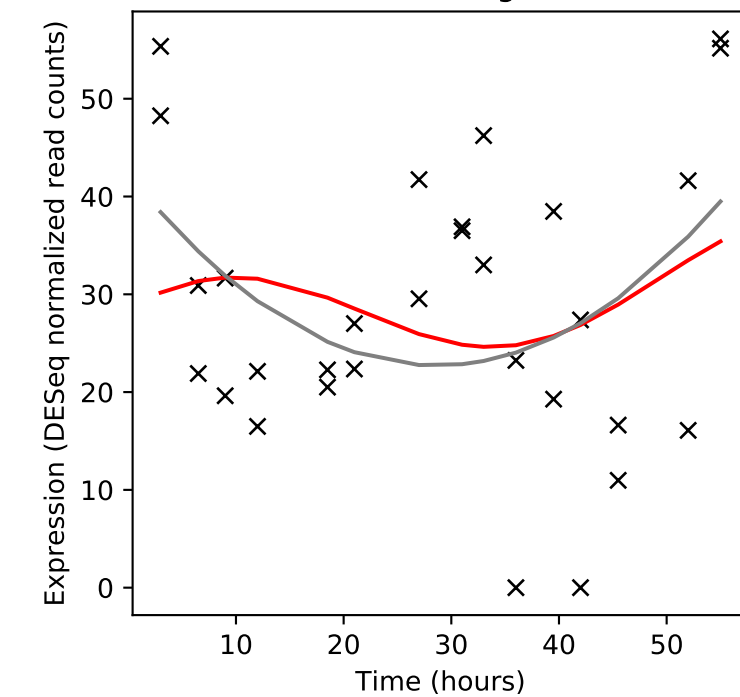
Rv0360c/-



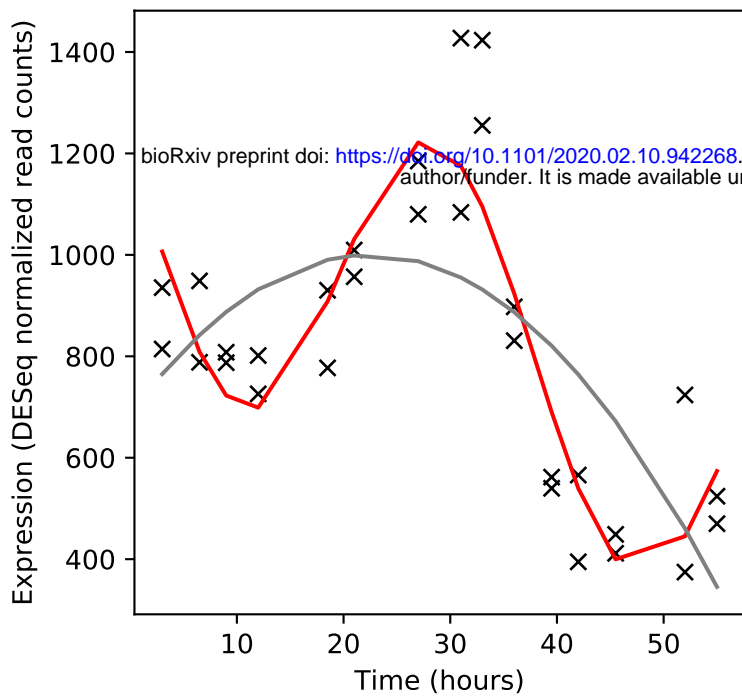
Rv0361/-



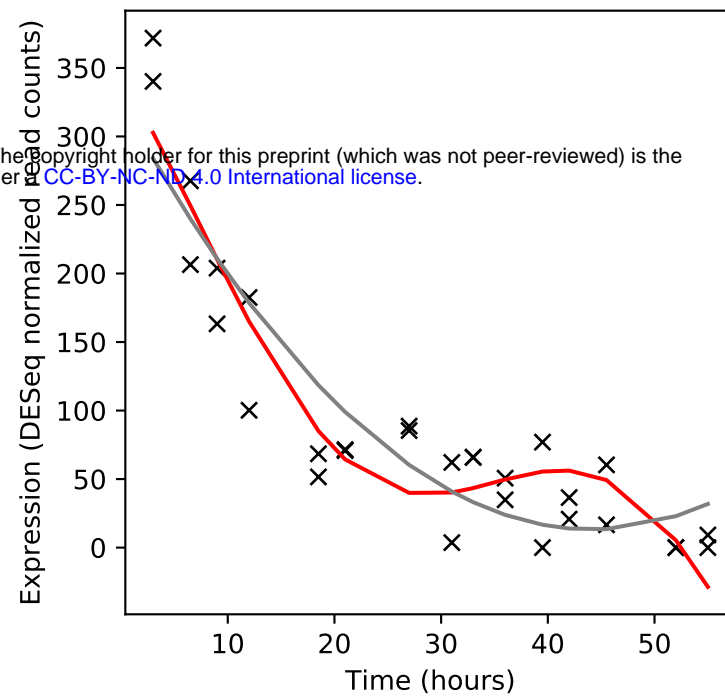
Rv0362/mgtE



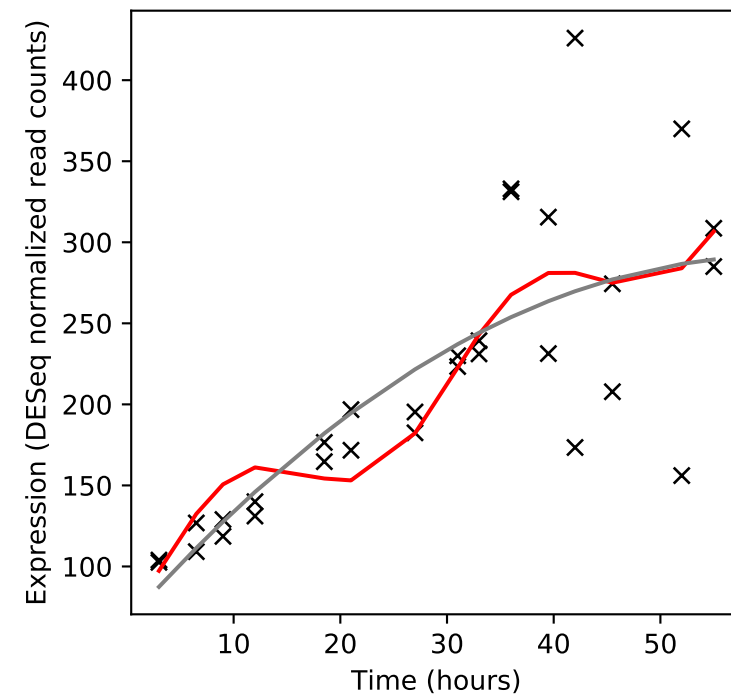
Rv0363c/fba



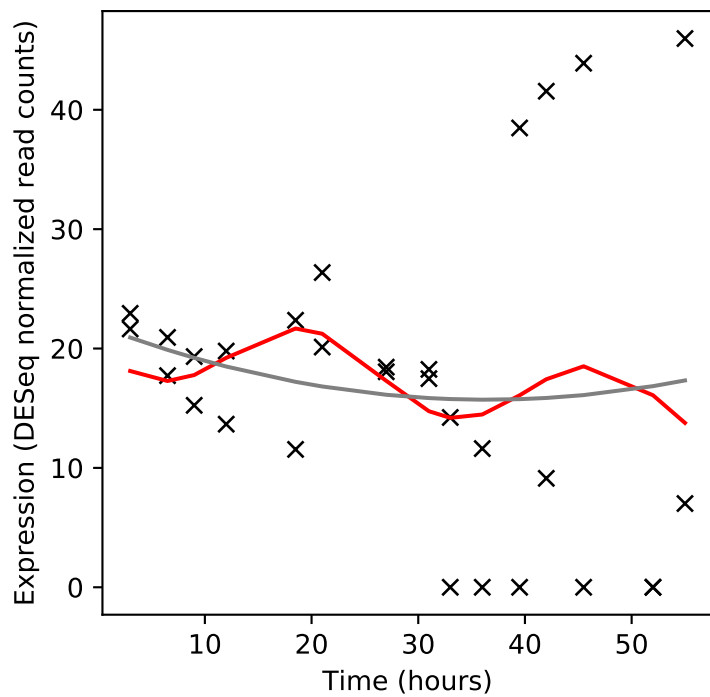
Rv0364/-



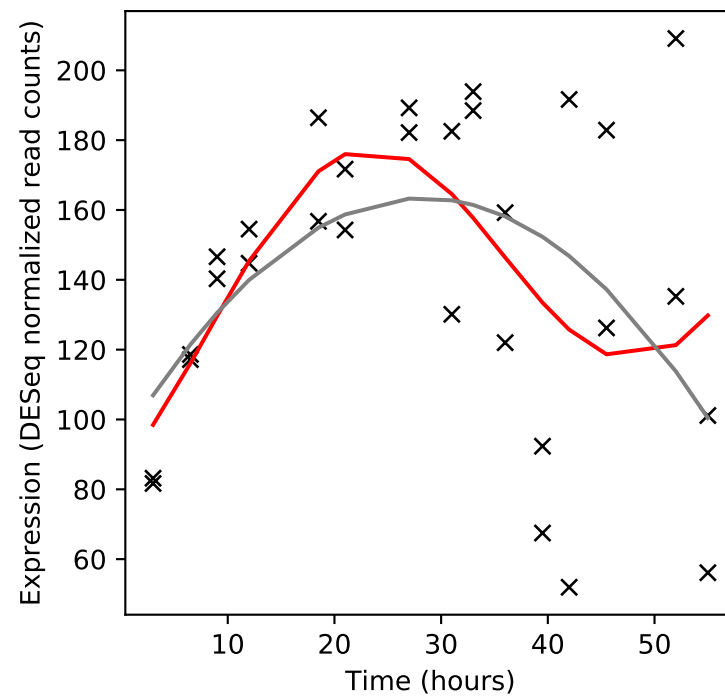
Rv0365c/-



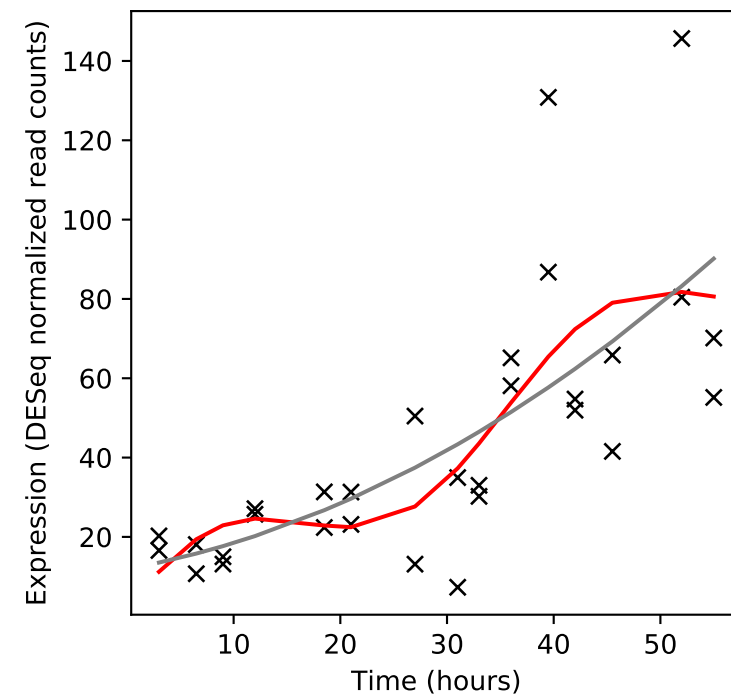
Rv0366c/-



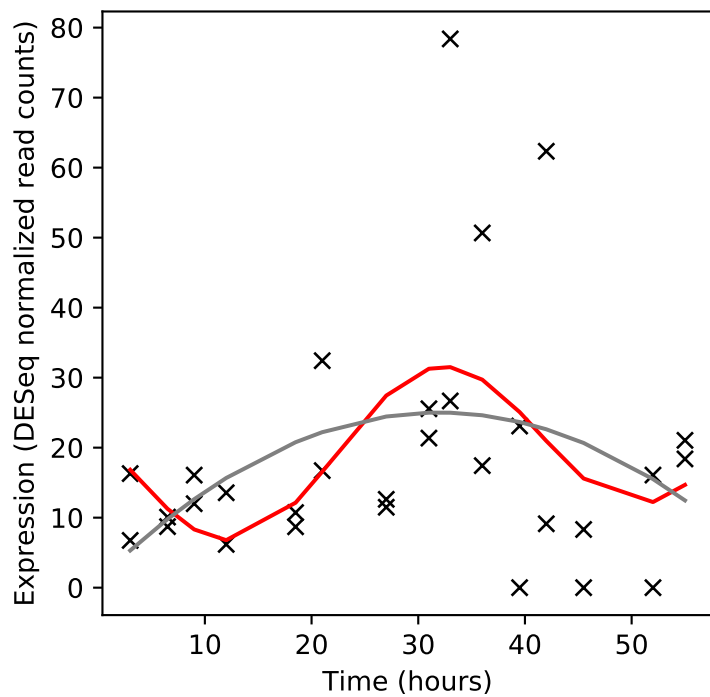
Rv0367c/-



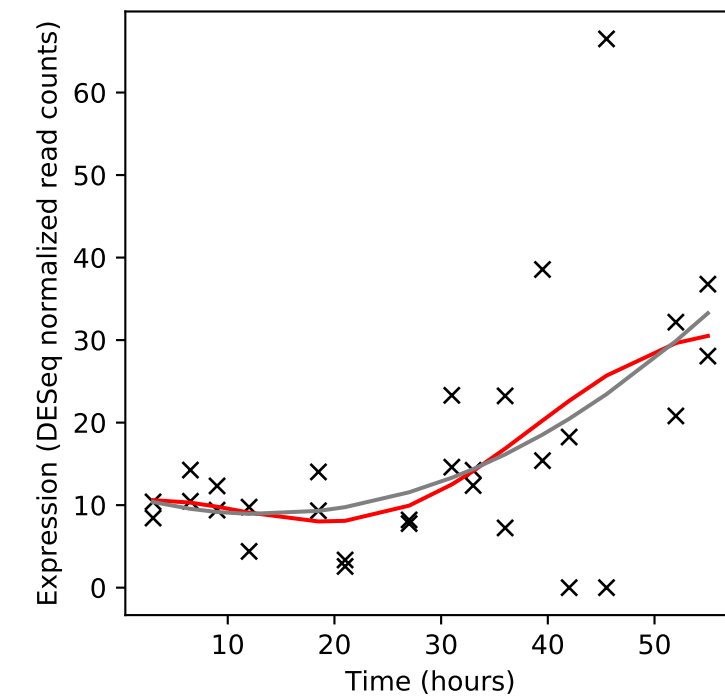
Rv0368c/-



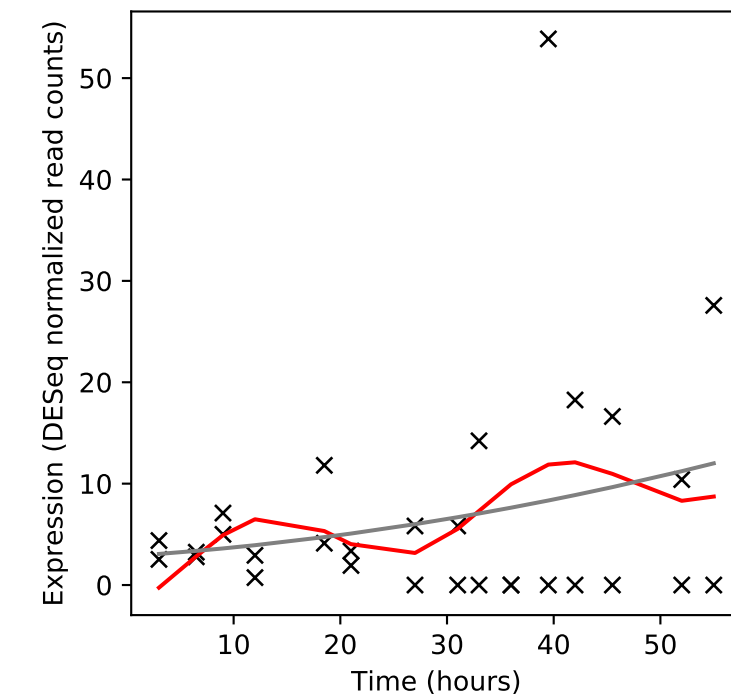
Rv0369c/-



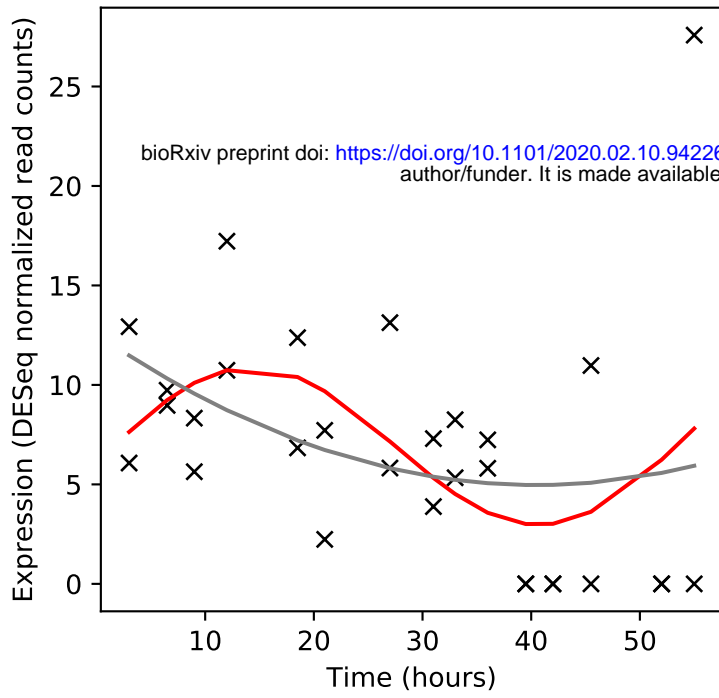
Rv0370c/-



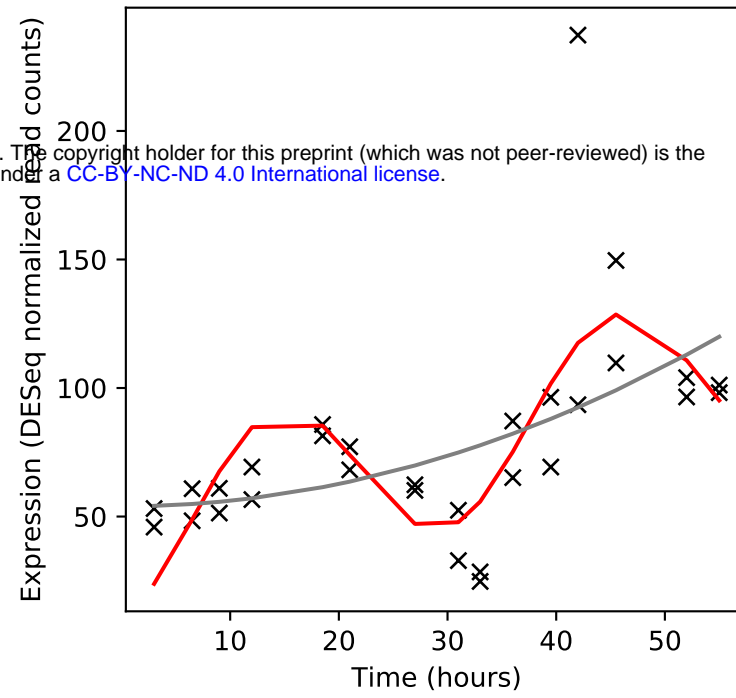
Rv0371c/-



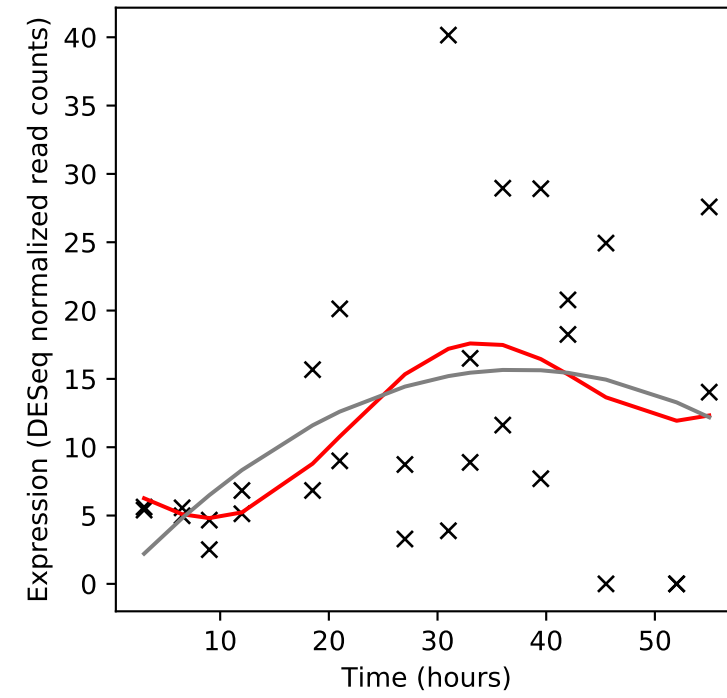
Rv0372c/-



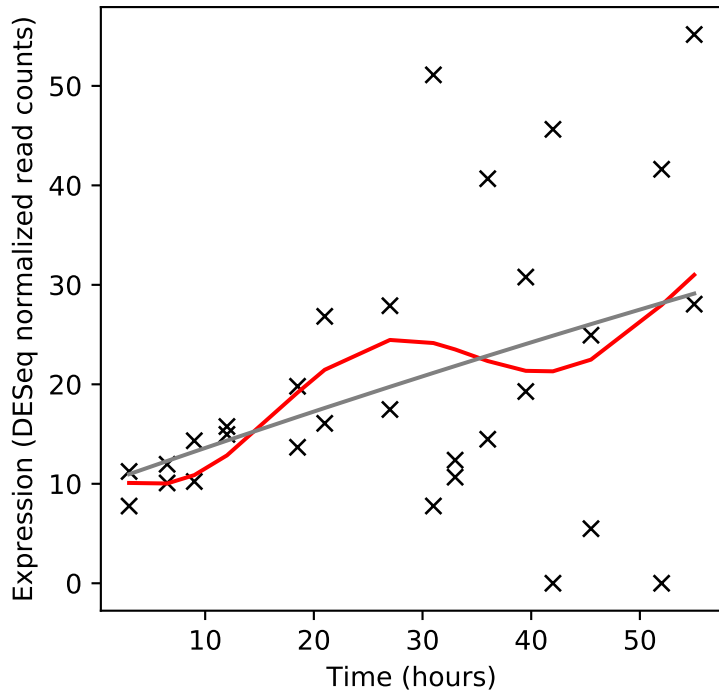
Rv0373c/-



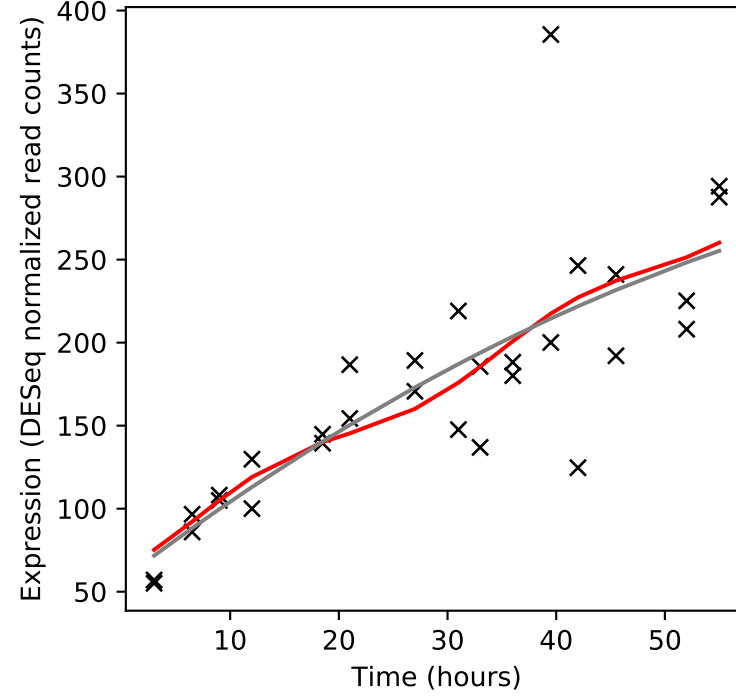
Rv0374c/-



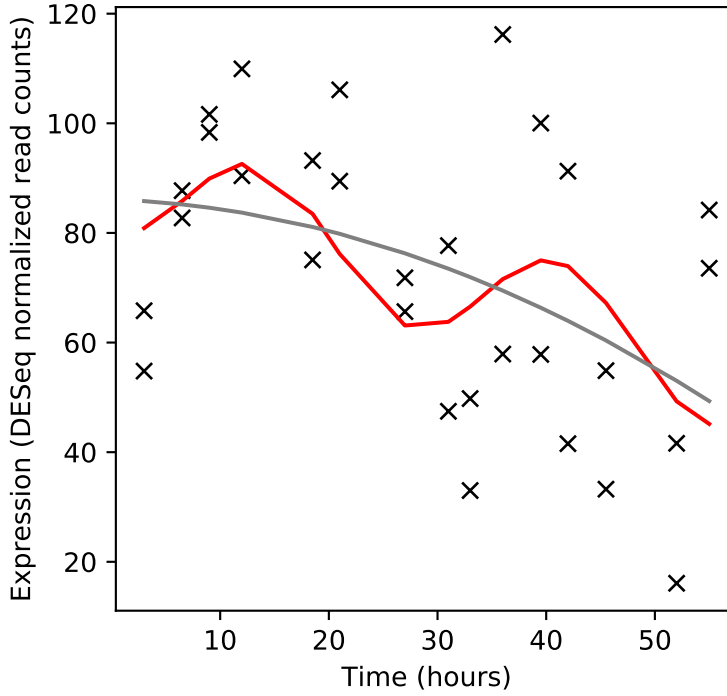
Rv0375c/-



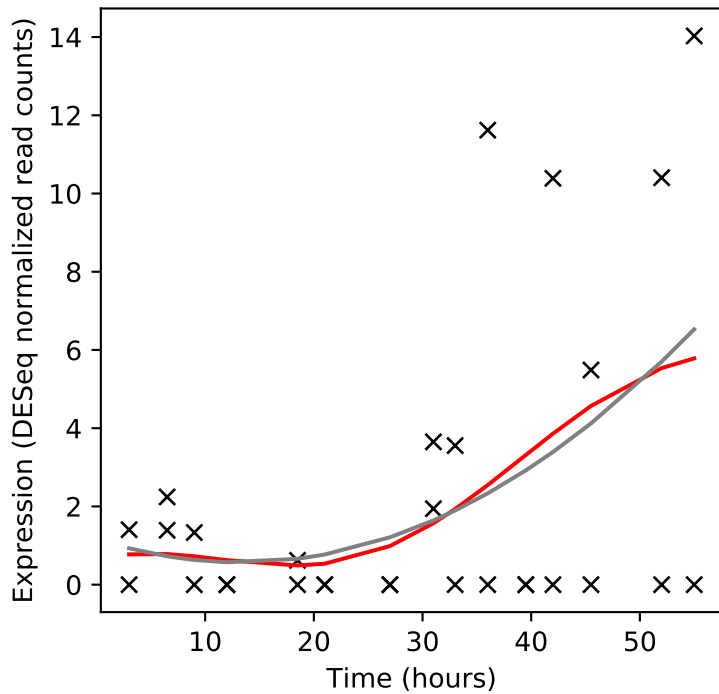
Rv0376c/-



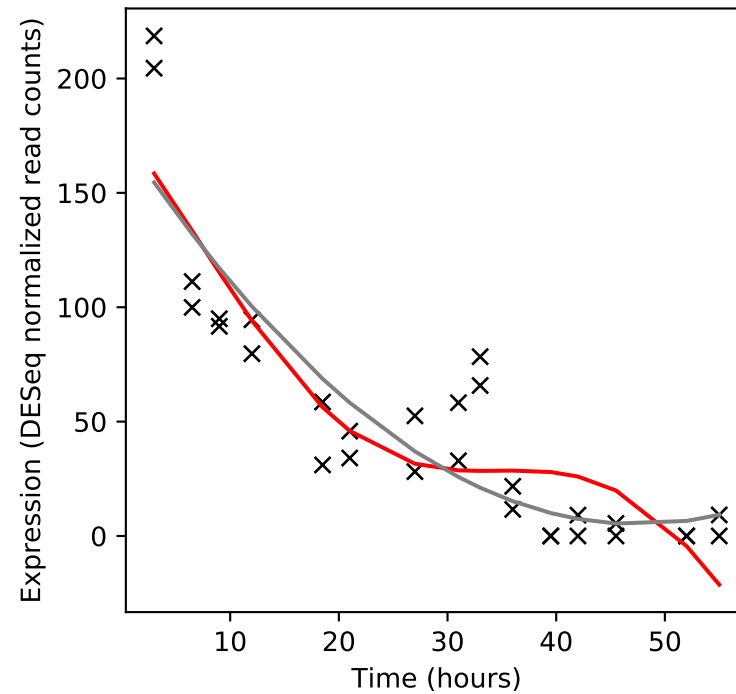
Rv0377/-



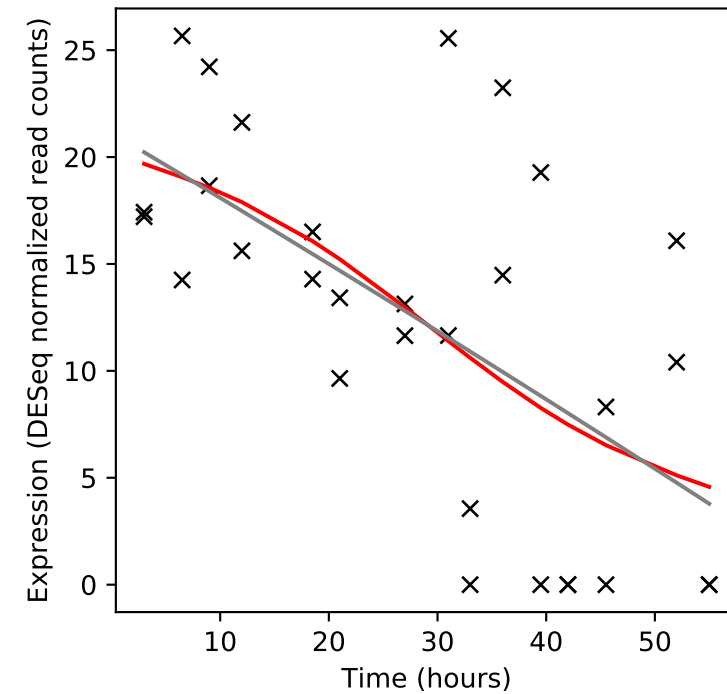
Rv0378/-



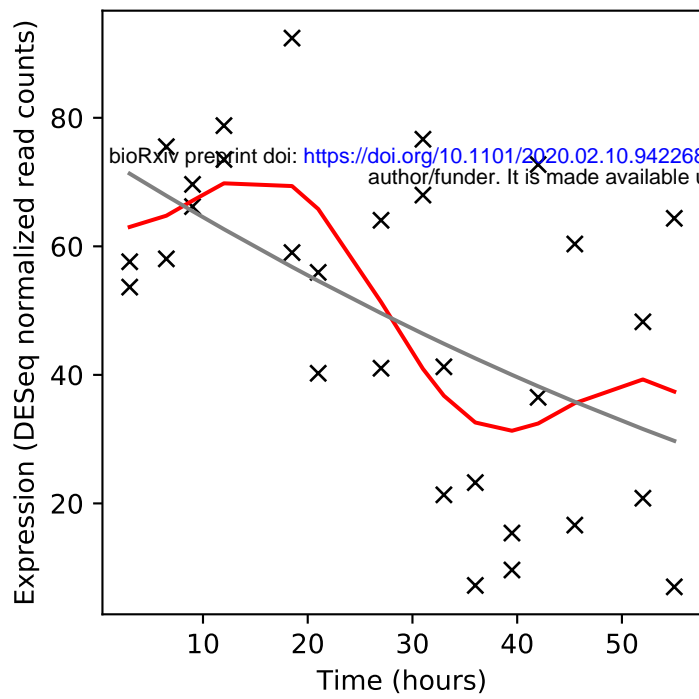
Rv0379/secE2



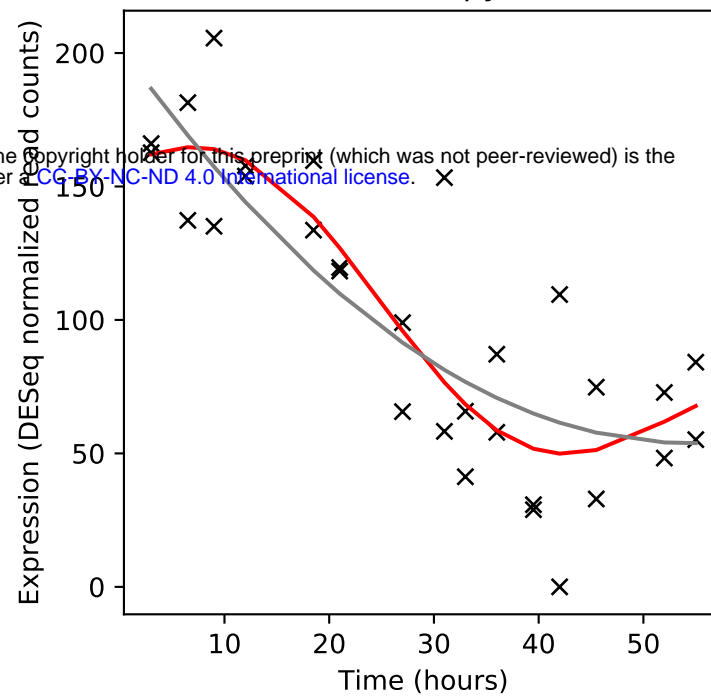
Rv0380c/-



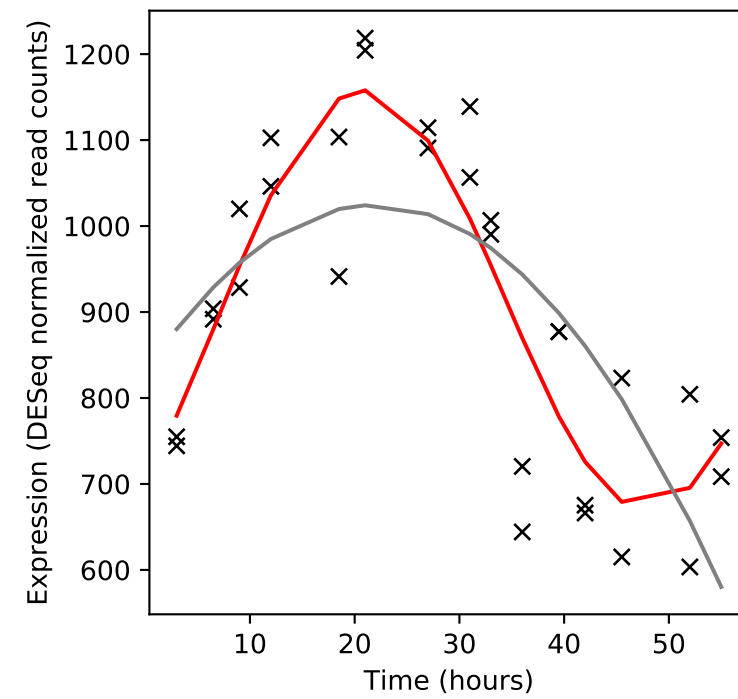
Rv0381c/-



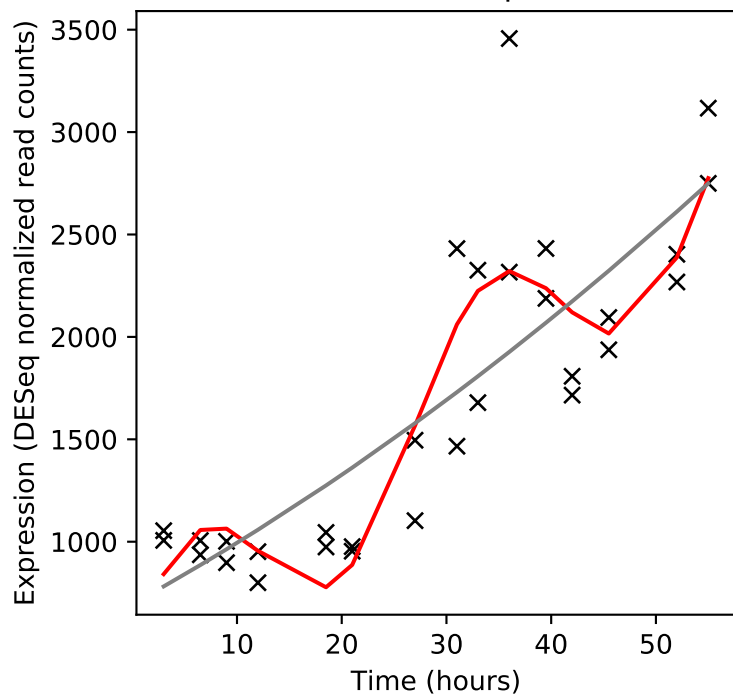
Rv0382c/pyrE



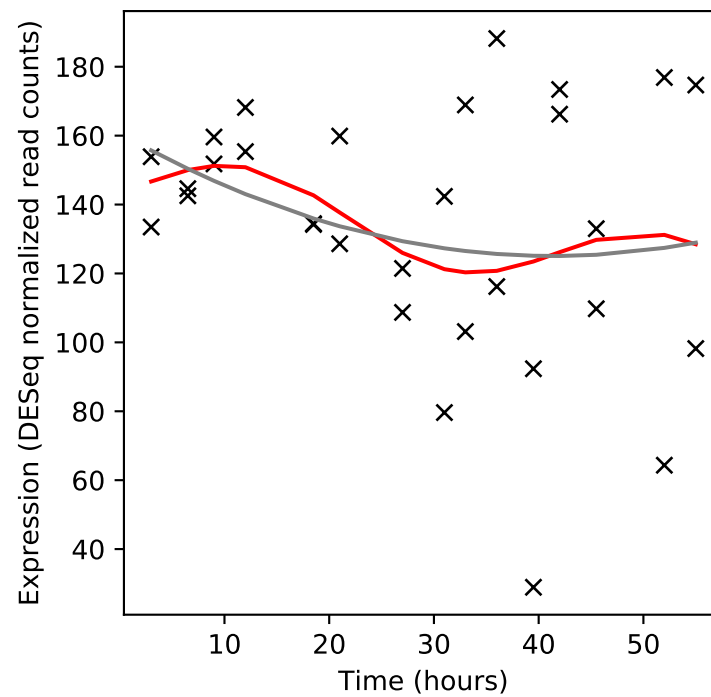
Rv0383c/-



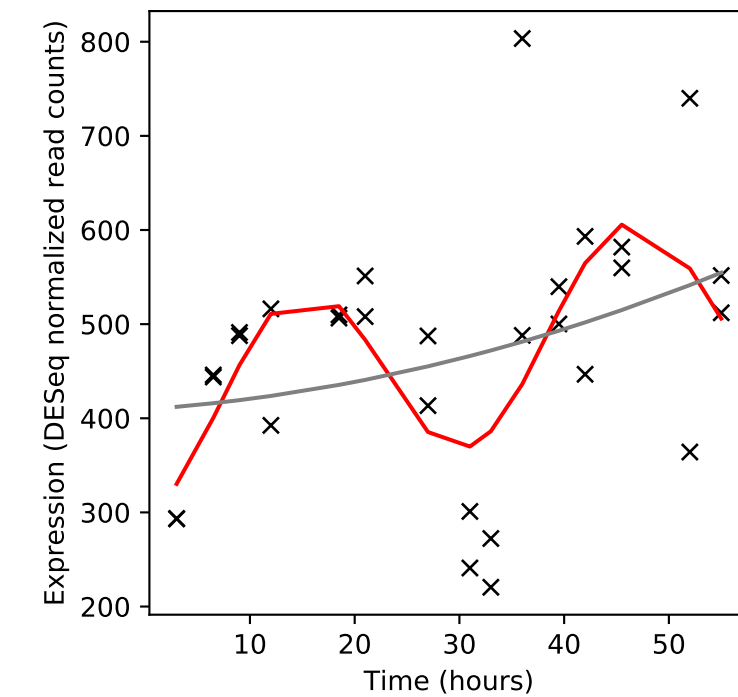
Rv0384c/clpB



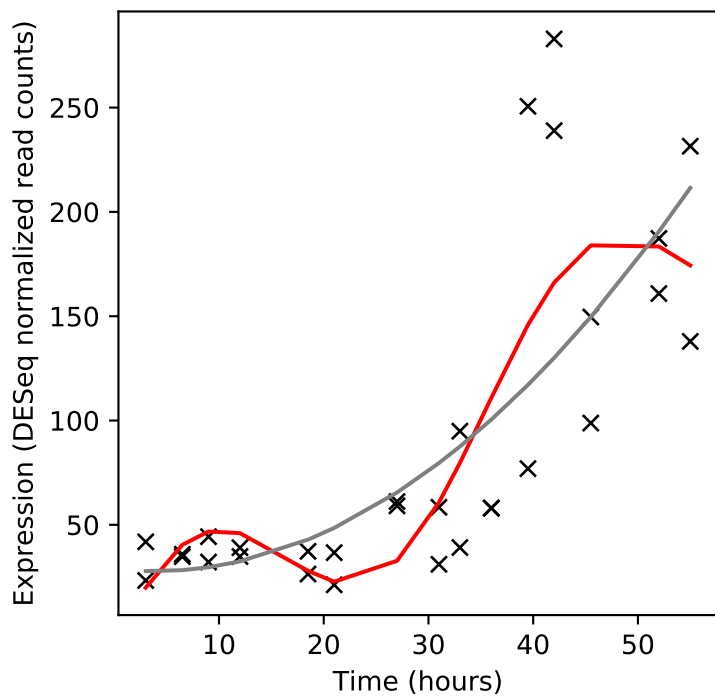
Rv0385/-



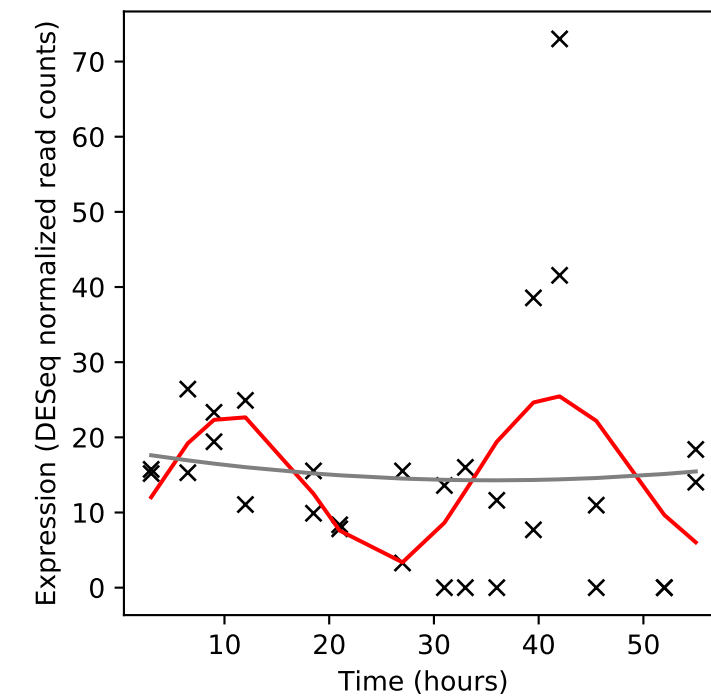
Rv0386/-



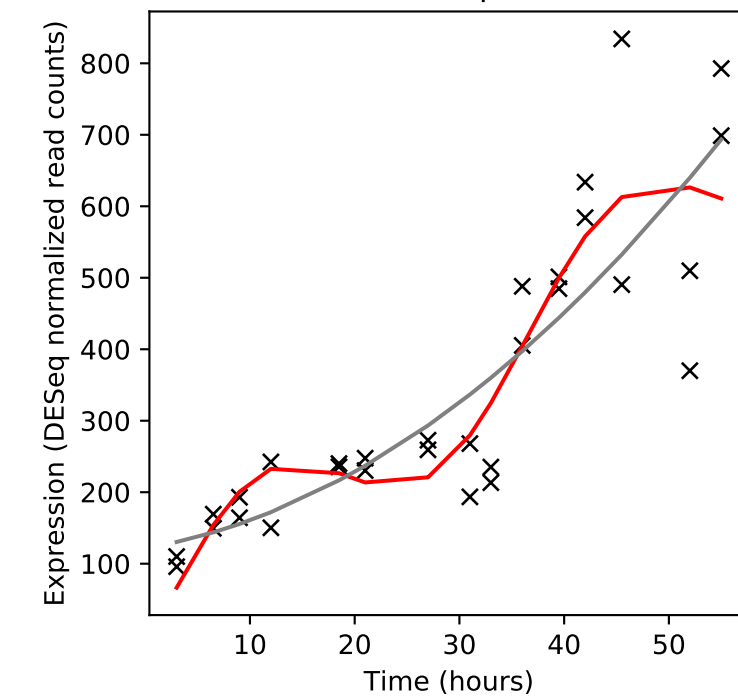
Rv0387c/-



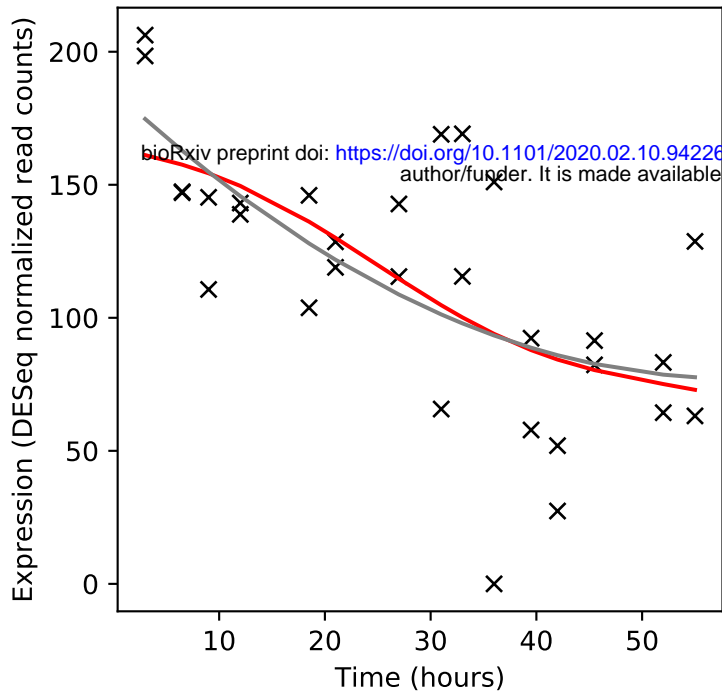
Rv0388c/PPE9



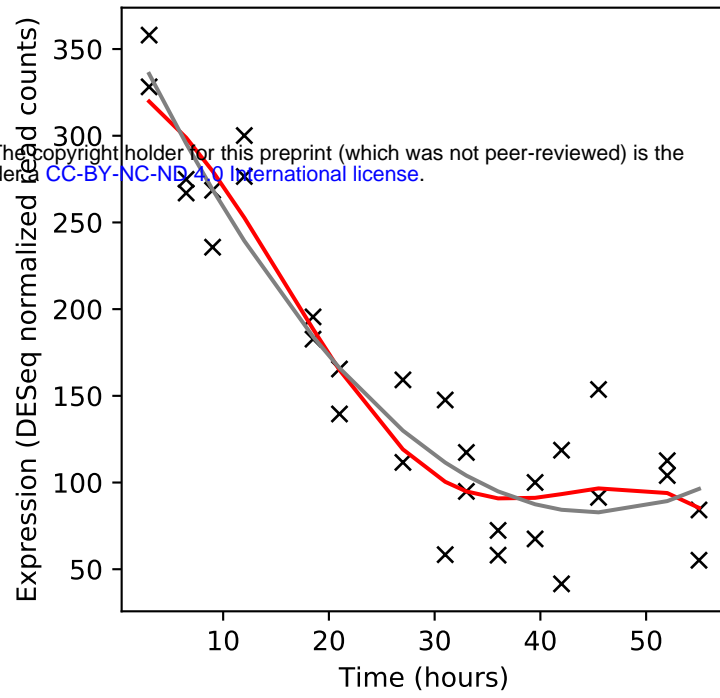
Rv0389/purT



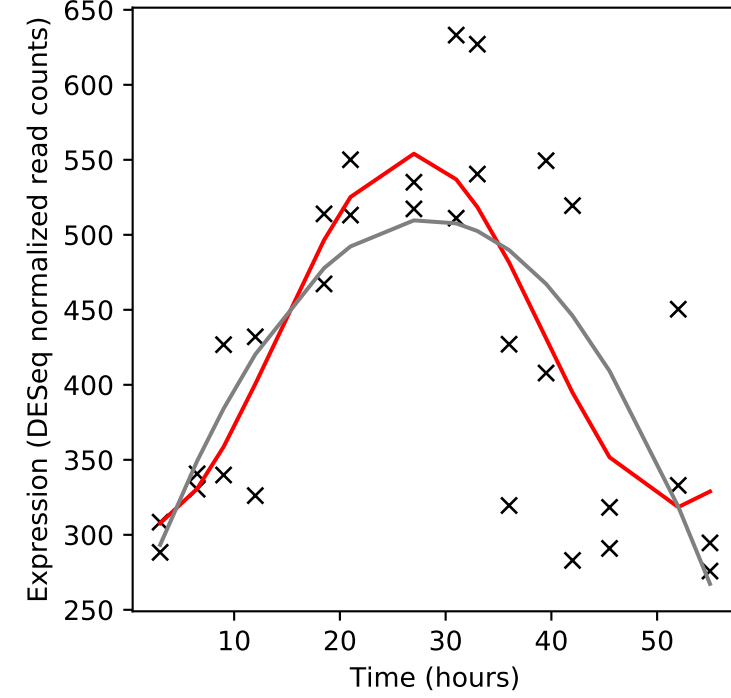
Rv0390/-



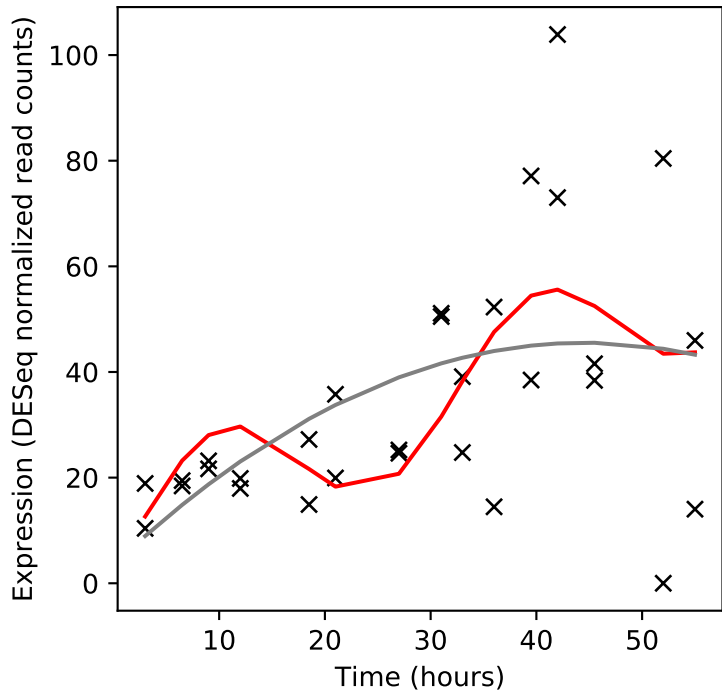
Rv0391/metZ



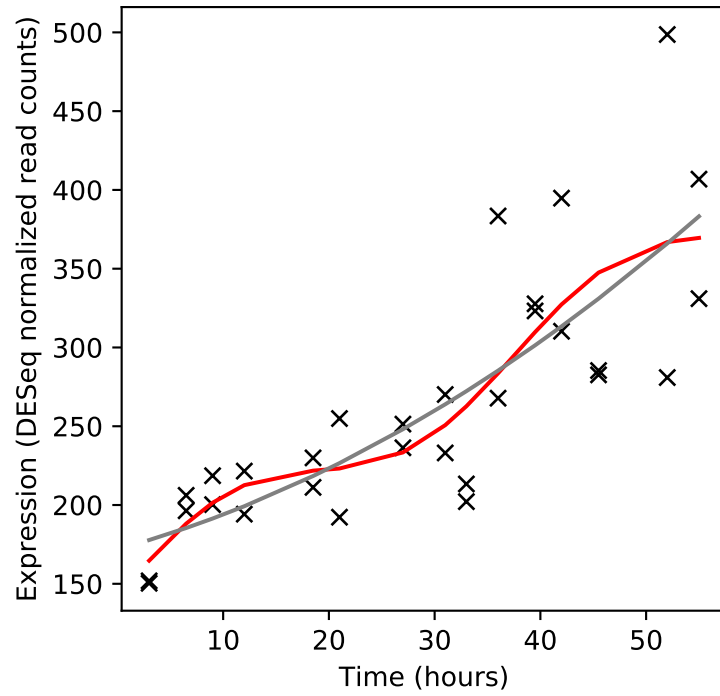
Rv0392c/ndhA



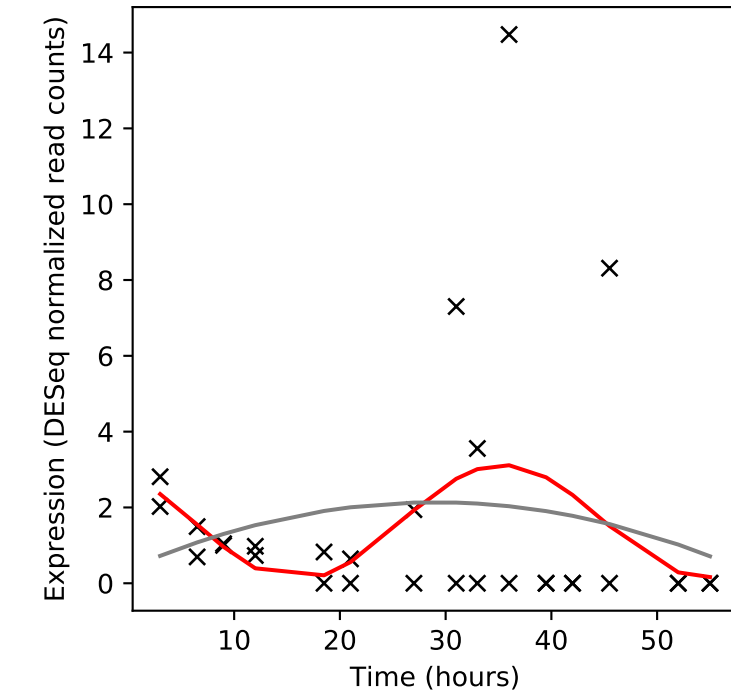
Rv0393/-



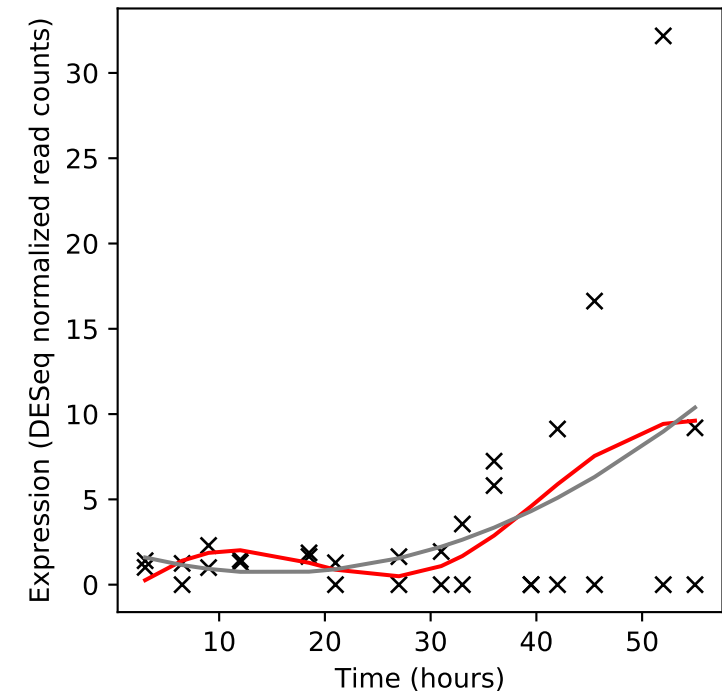
Rv0394c/-



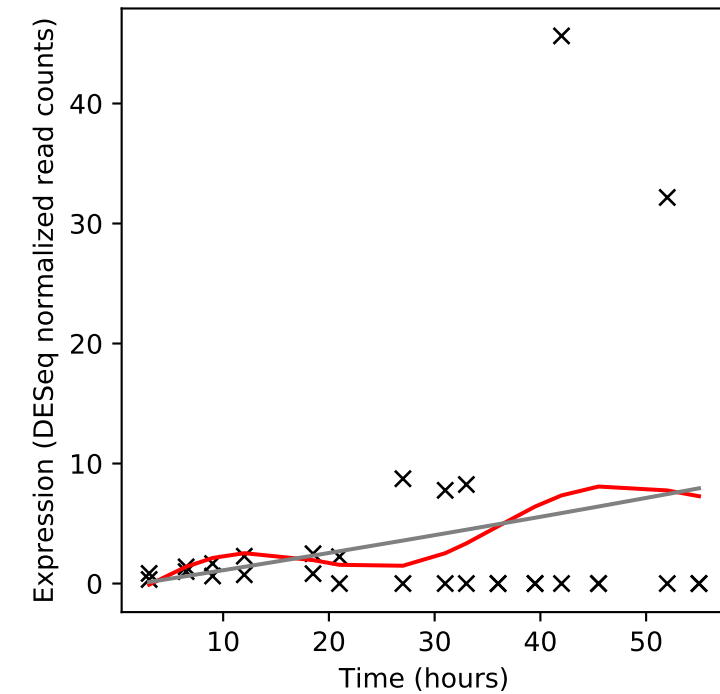
Rv0395/-



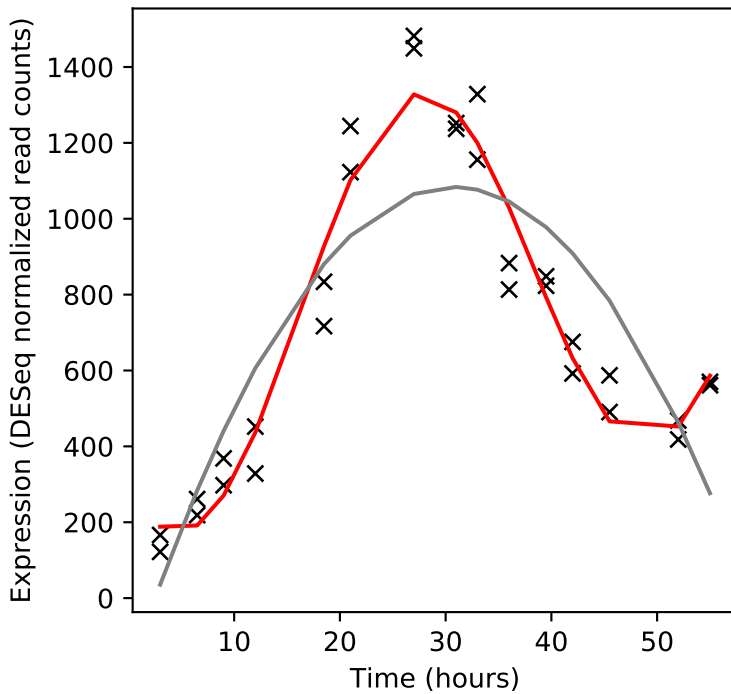
Rv0396/-



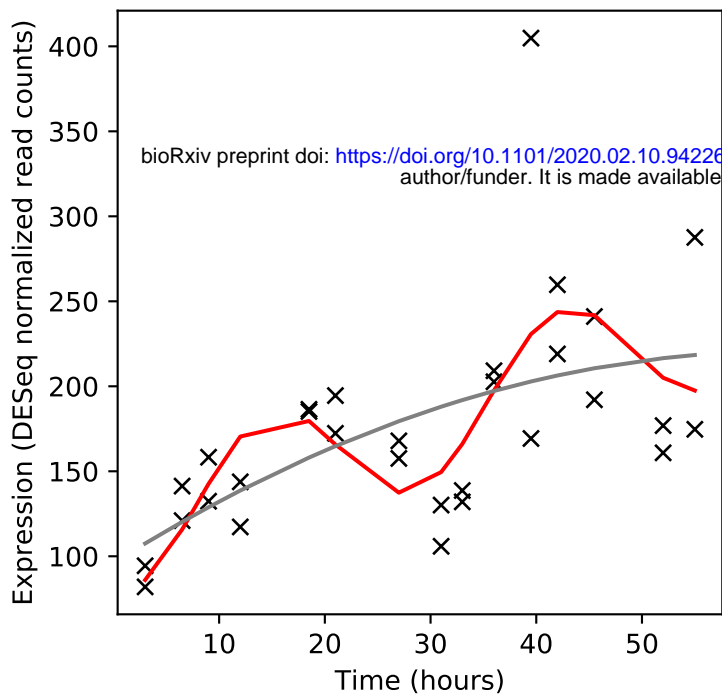
Rv0397/-



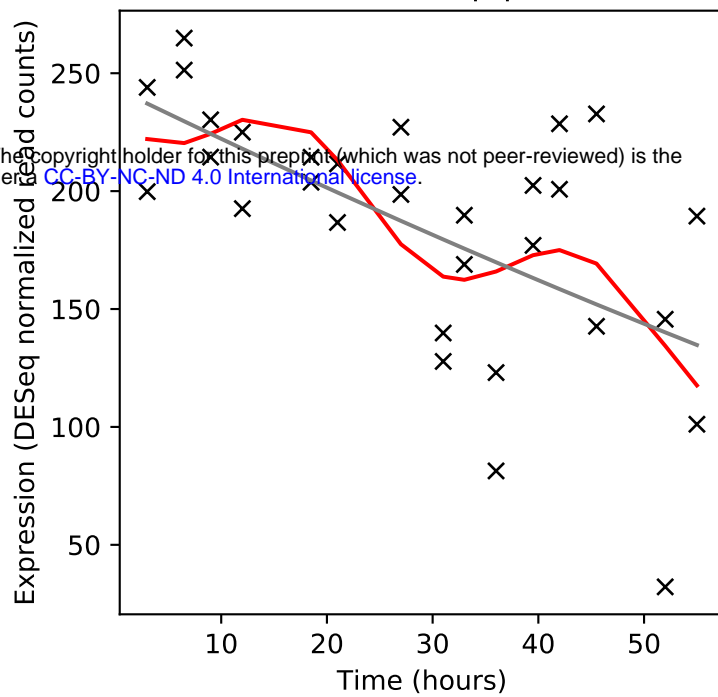
Rv0397A/-



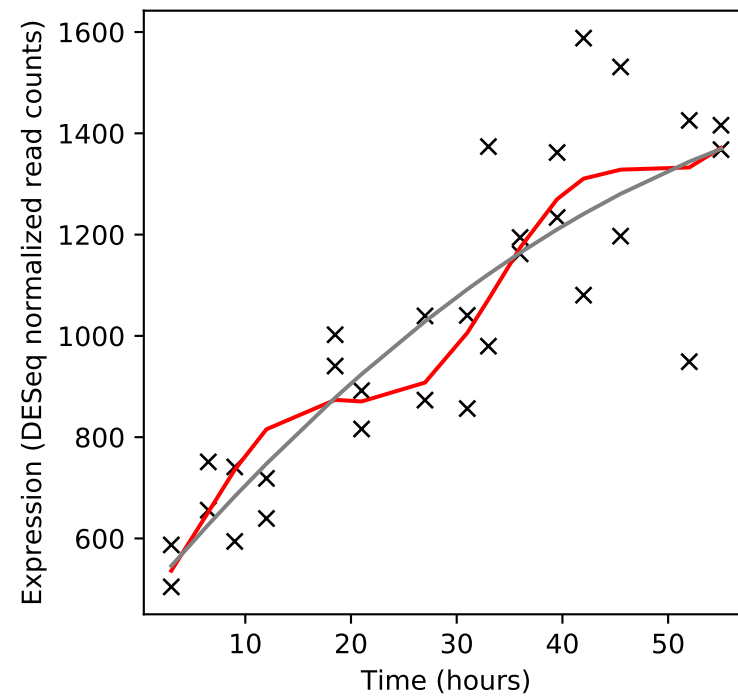
Rv0398c/-



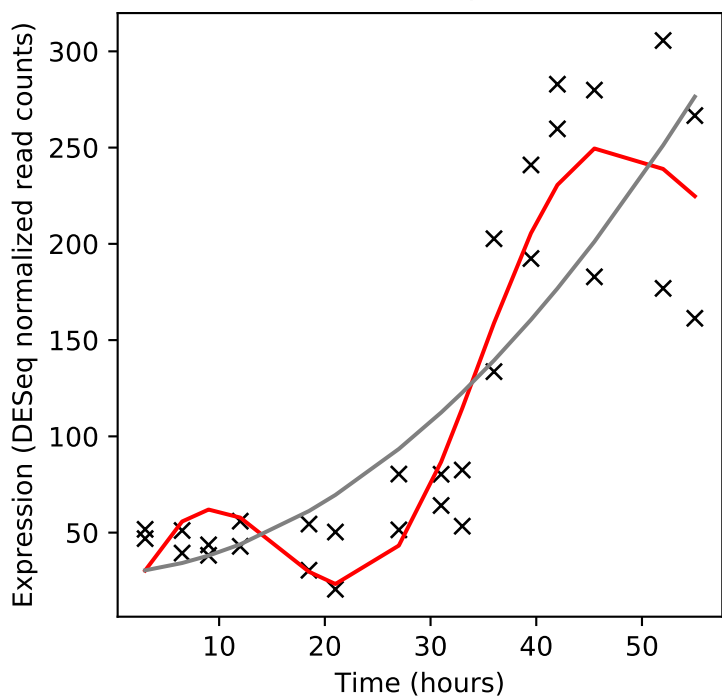
Rv0399c/lpqK



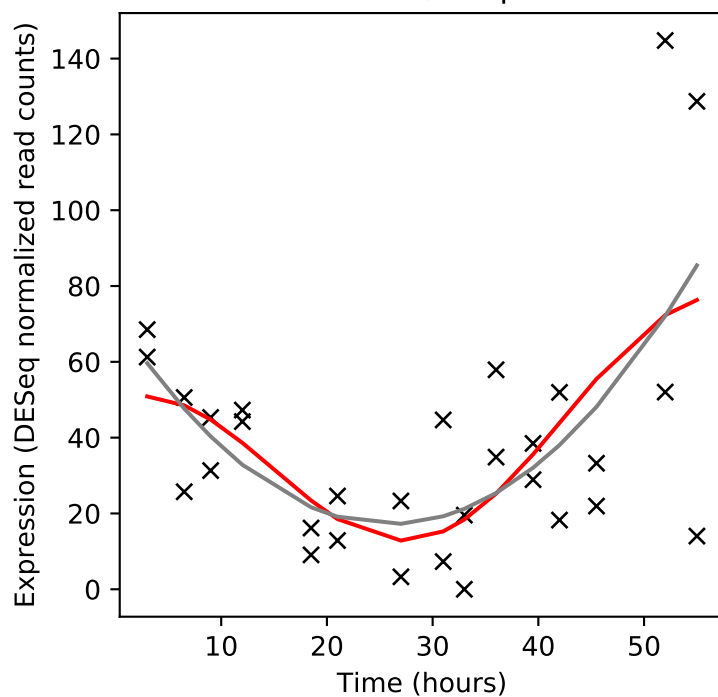
Rv0400c/fadE7



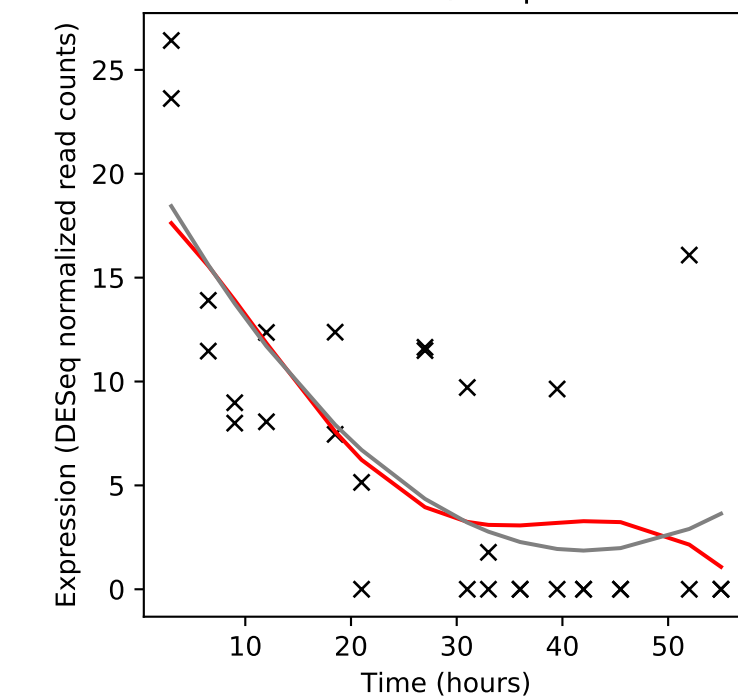
Rv0401c/-



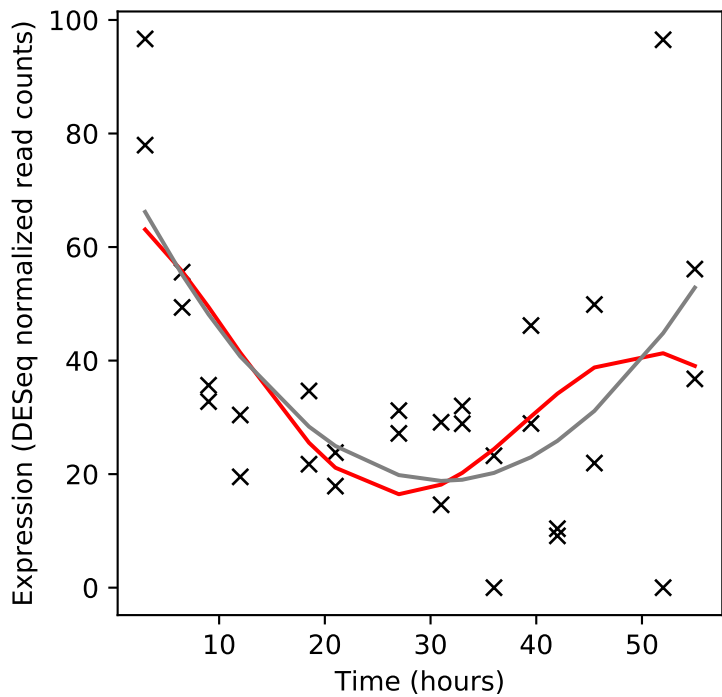
Rv0402c/mmpL1



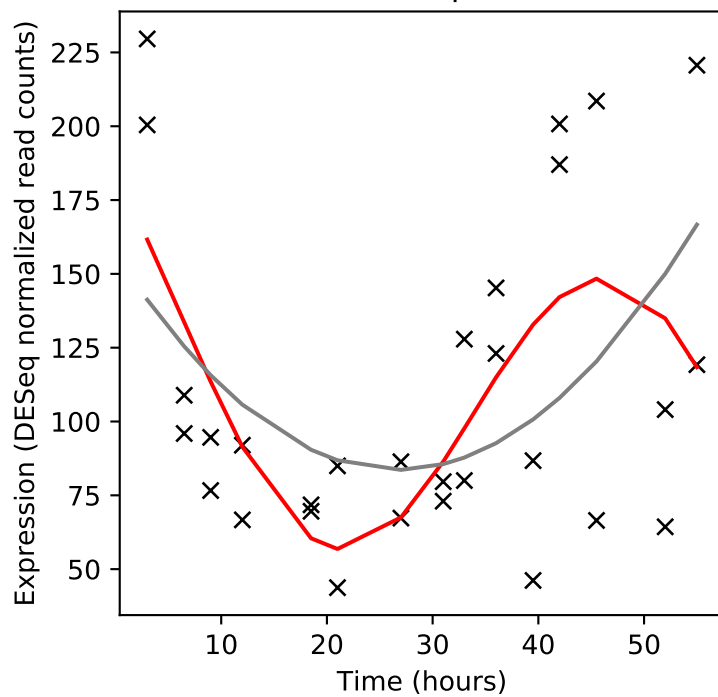
Rv0403c/mmpS1



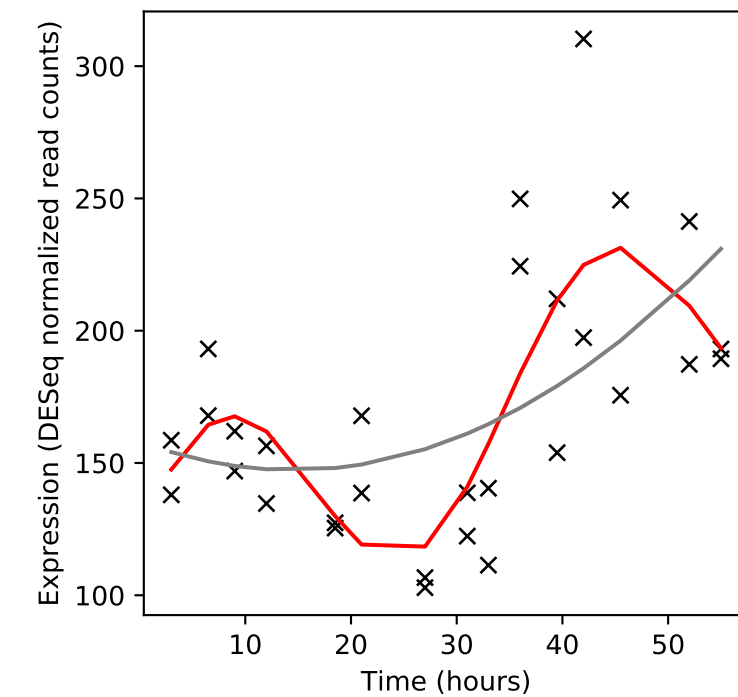
Rv0404c/fadD30



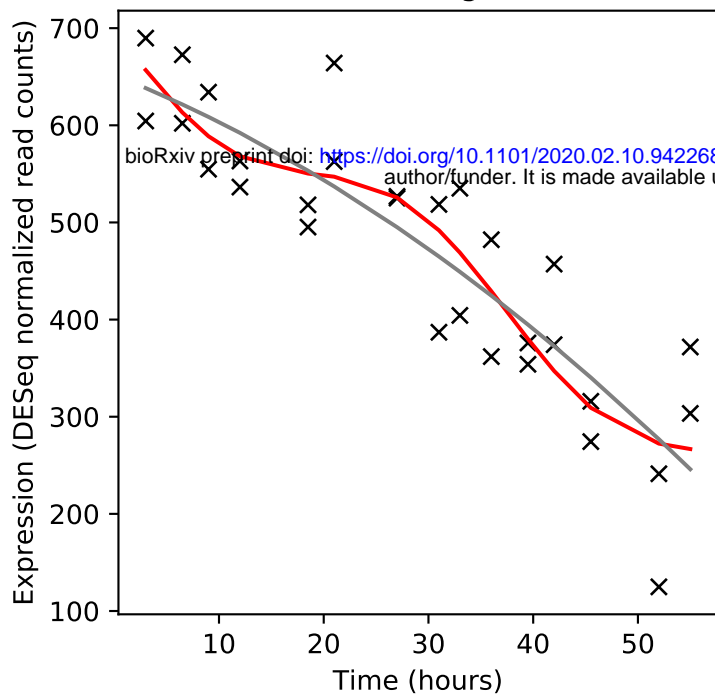
Rv0405c/pks6



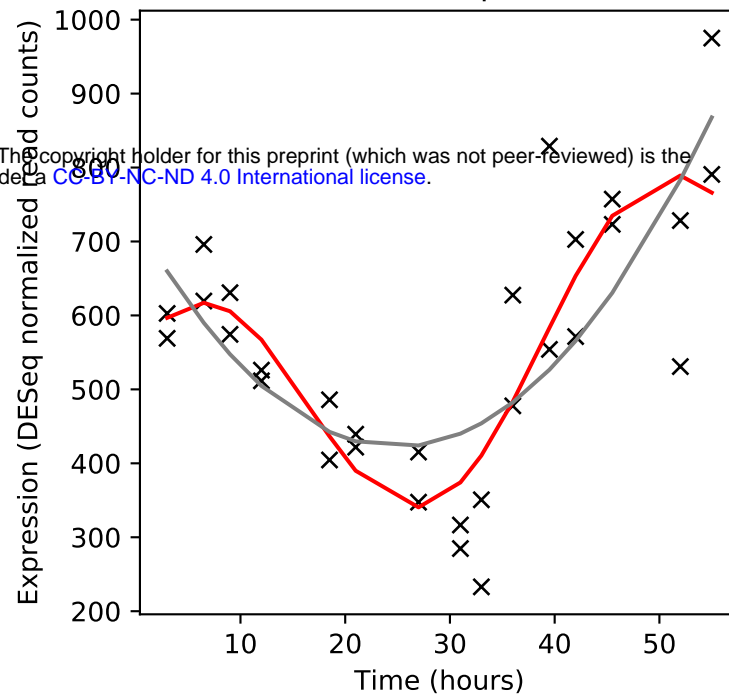
Rv0406c/-



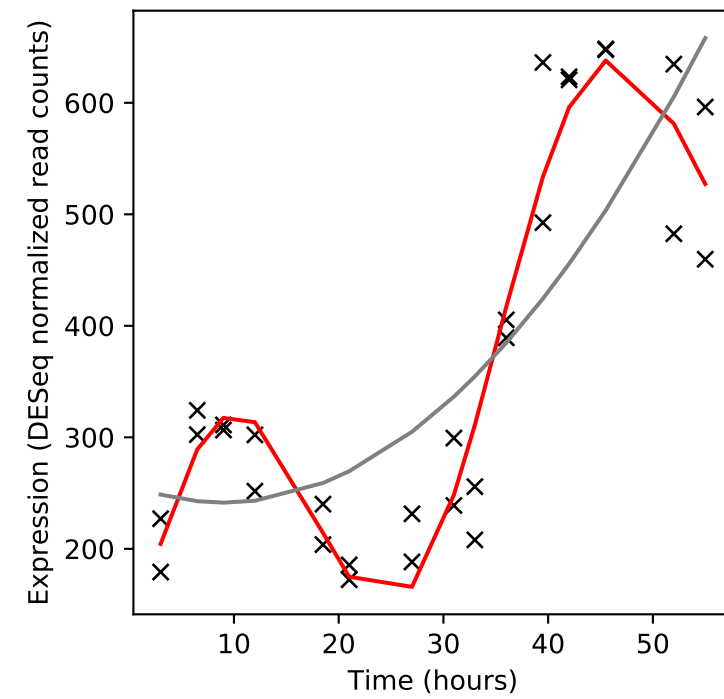
Rv0407/fgd1



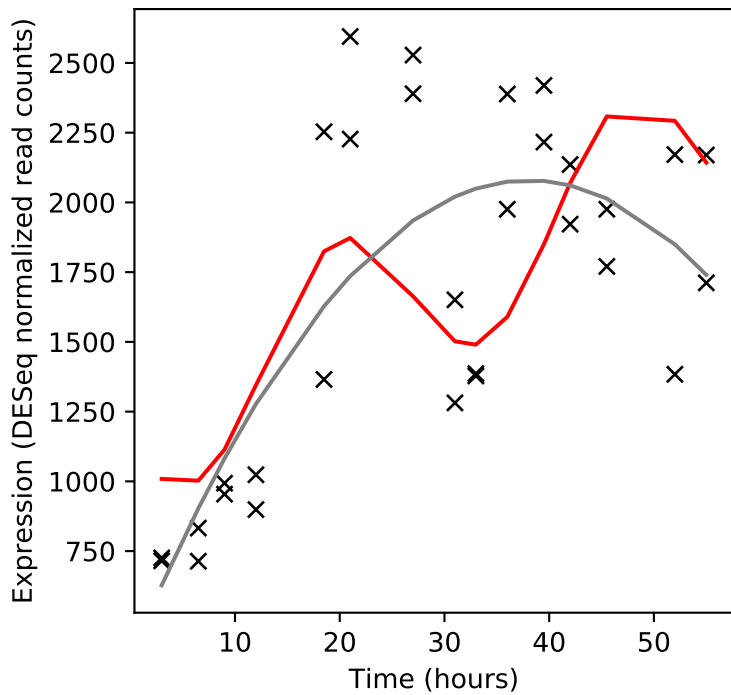
Rv0408/pta



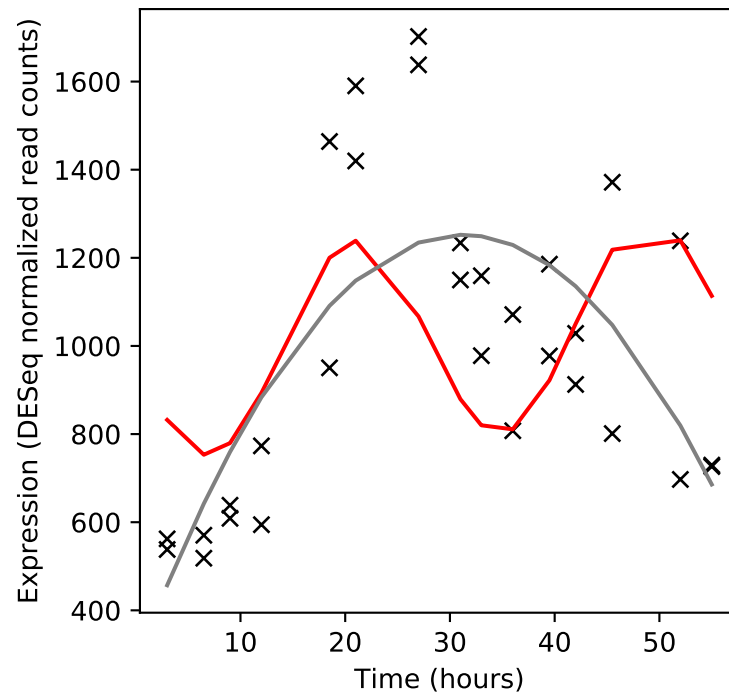
Rv0409/ackA



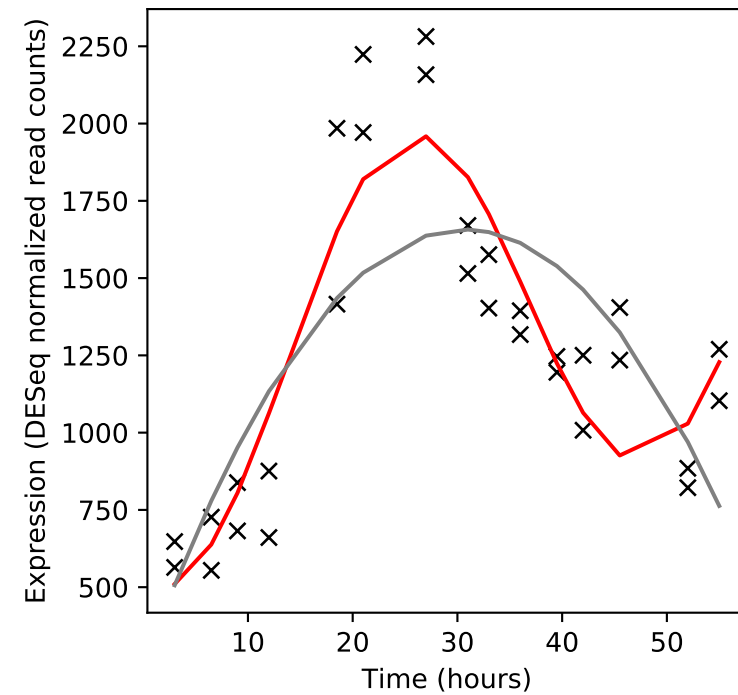
Rv0410c/pknG



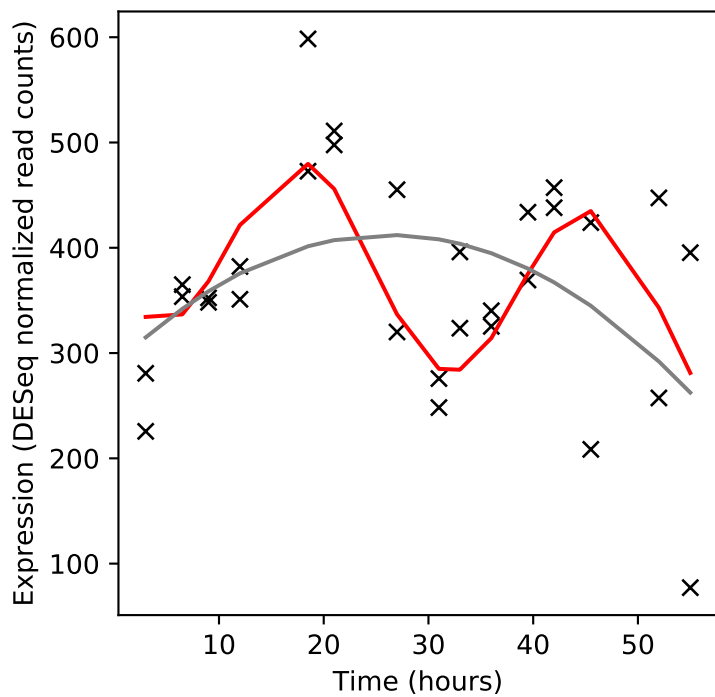
Rv0411c/glnH



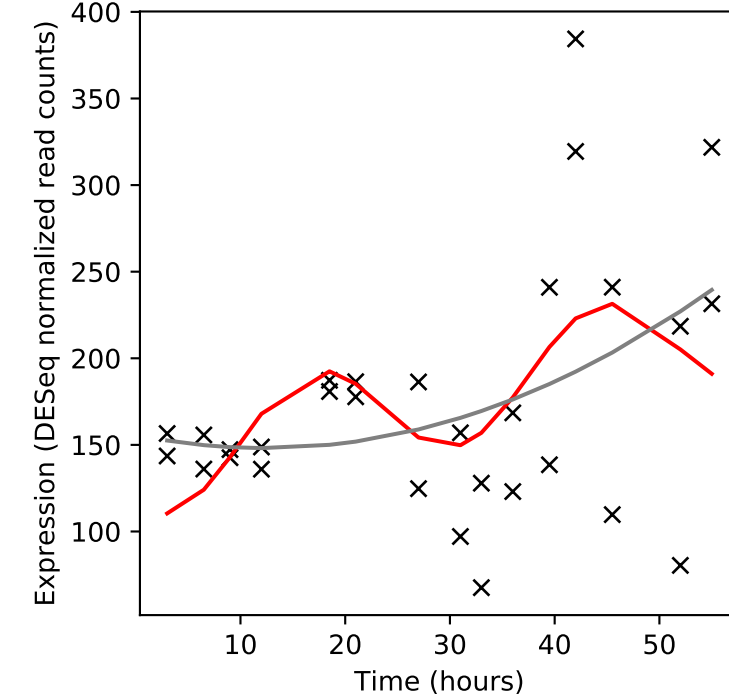
Rv0412c/-



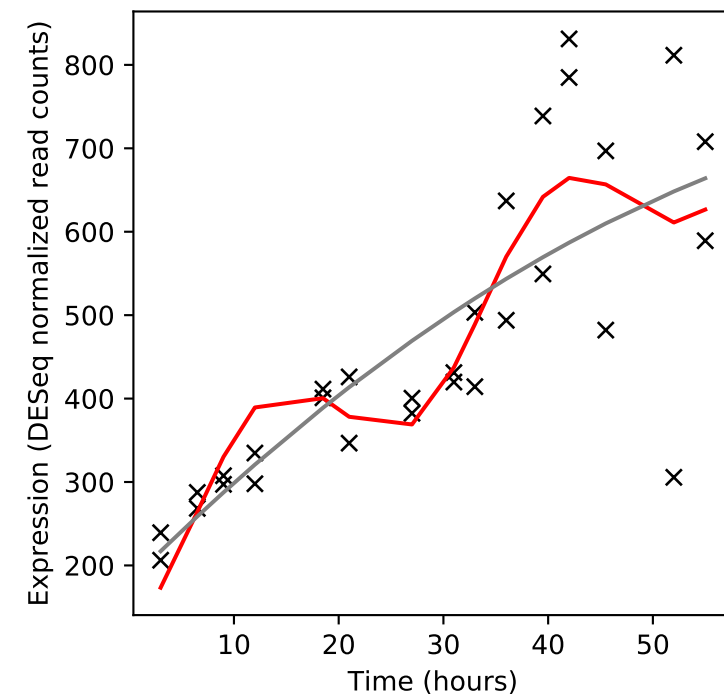
Rv0413/mutT3



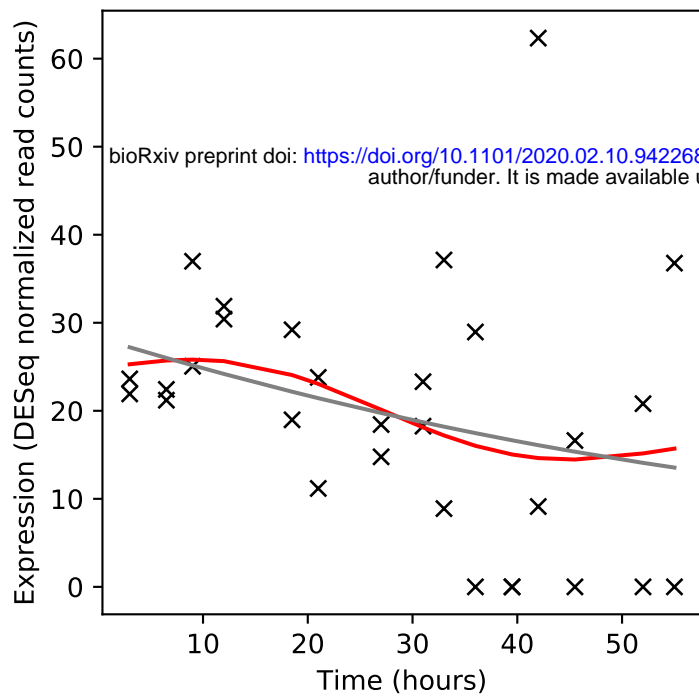
Rv0414c/thiE



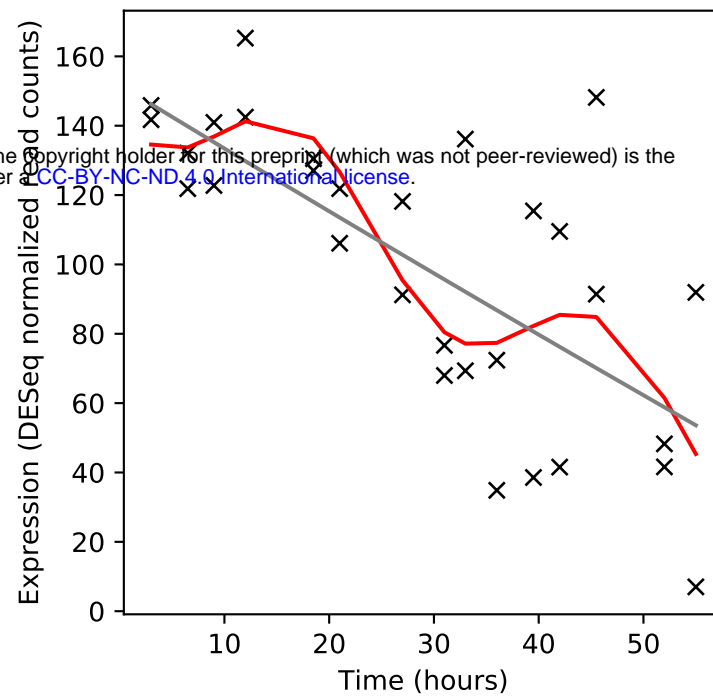
Rv0415/thiO



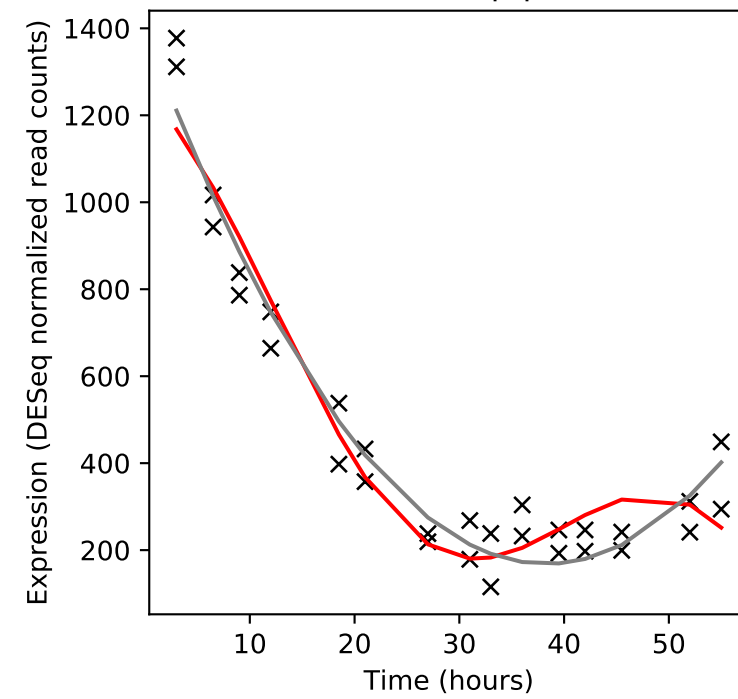
Rv0416/thiS



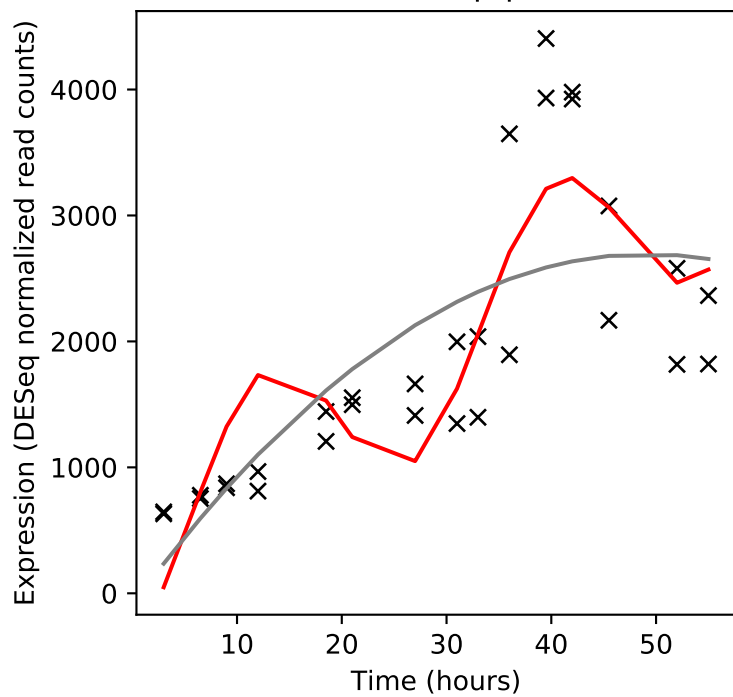
Rv0417/thiG



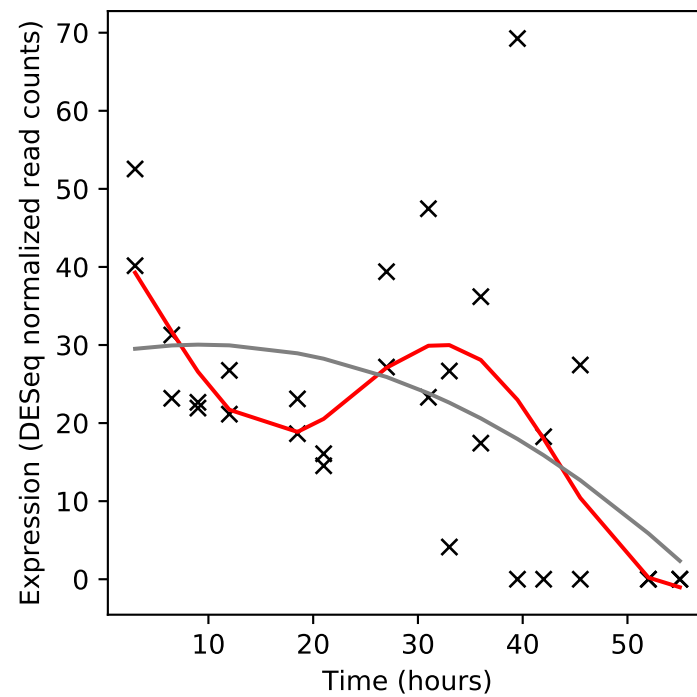
Rv0418/lpqL



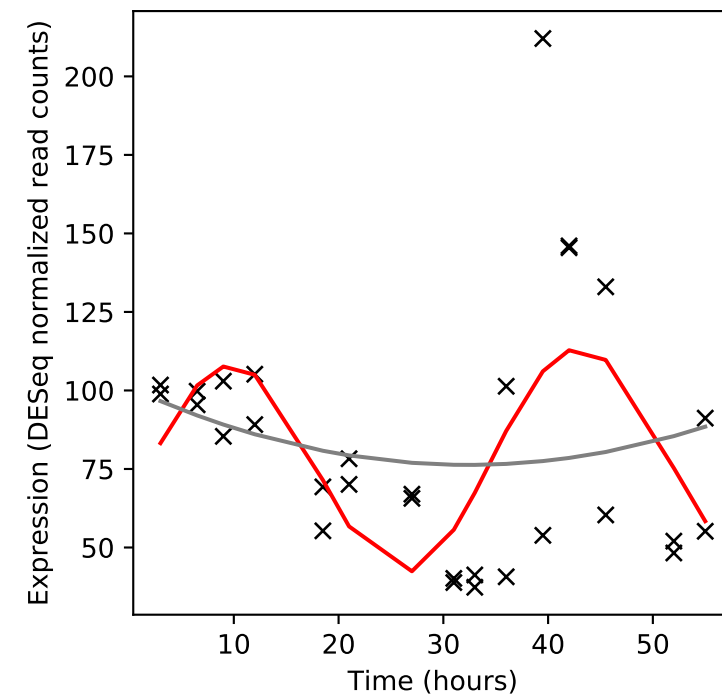
Rv0419/lpqM



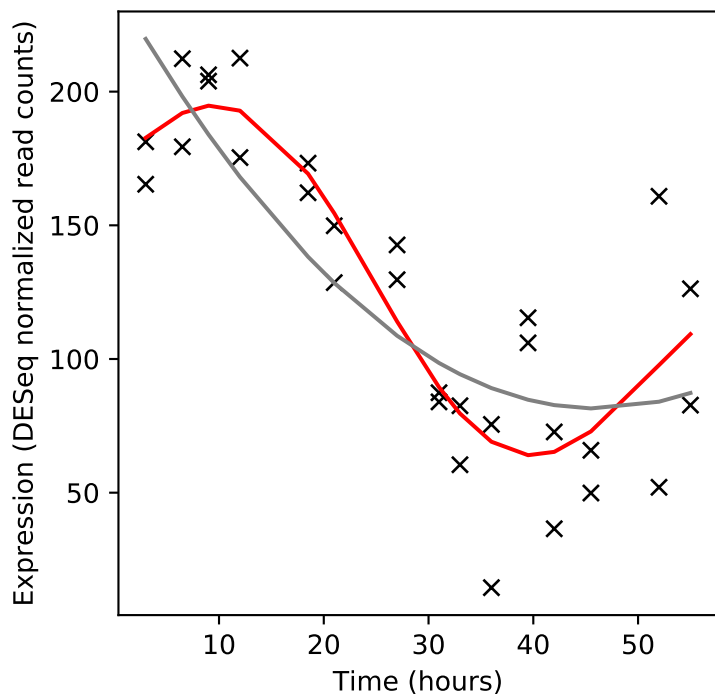
Rv0420c/-



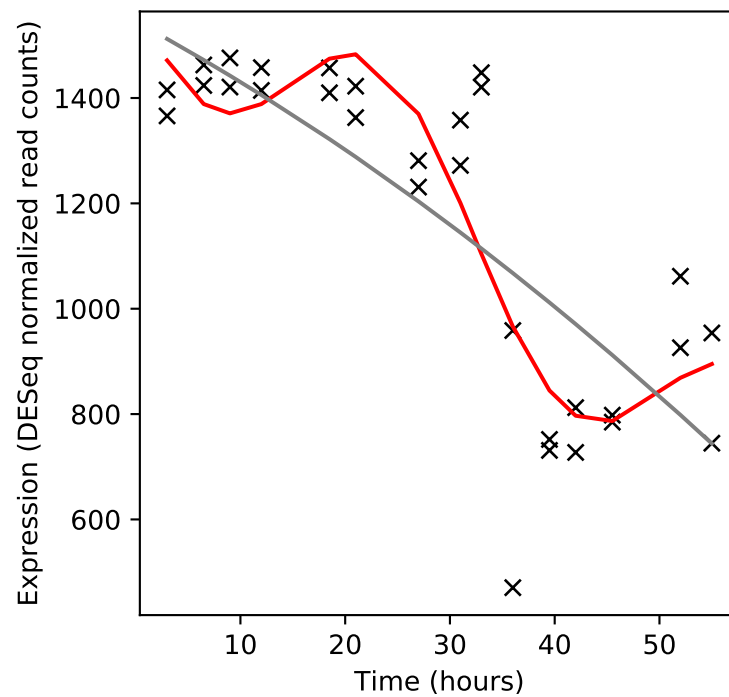
Rv0421c/-



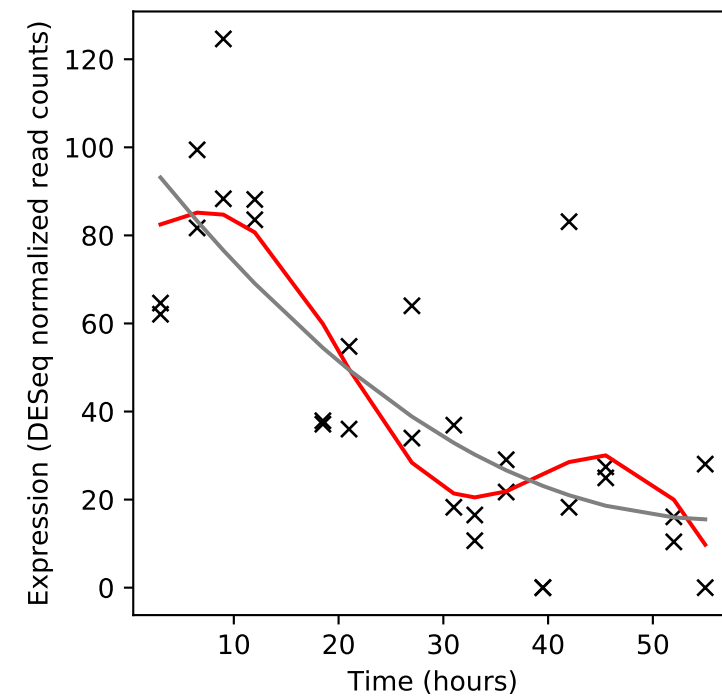
Rv0422c/thiD



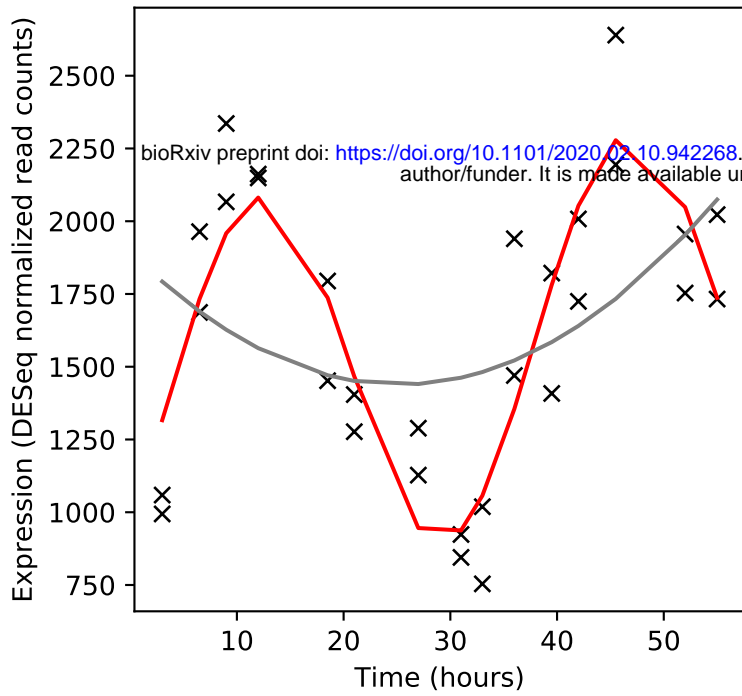
Rv0423c/thiC



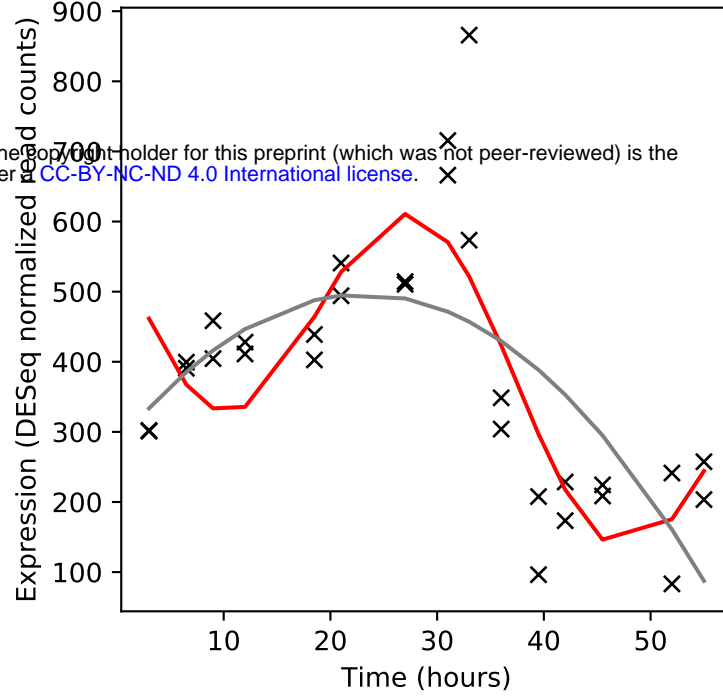
Rv0424c/-



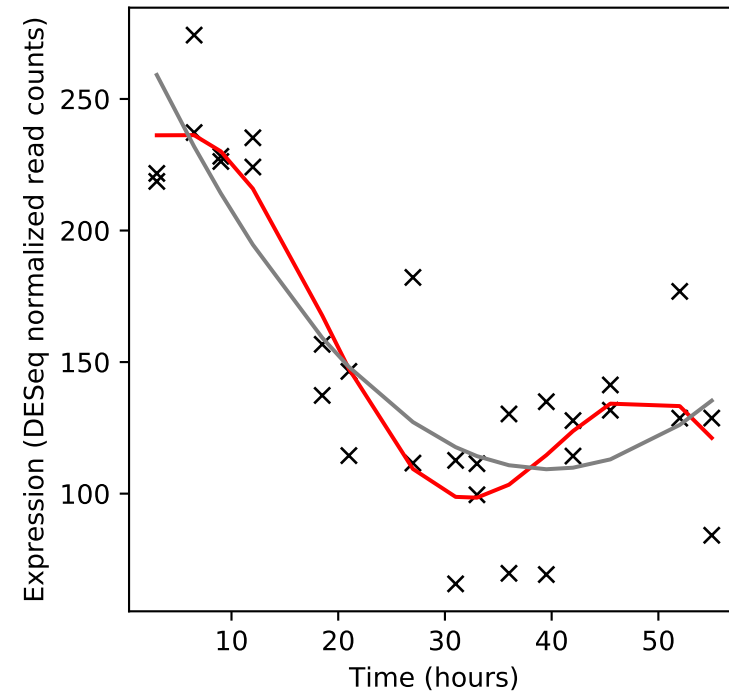
Rv0425c/ctpH



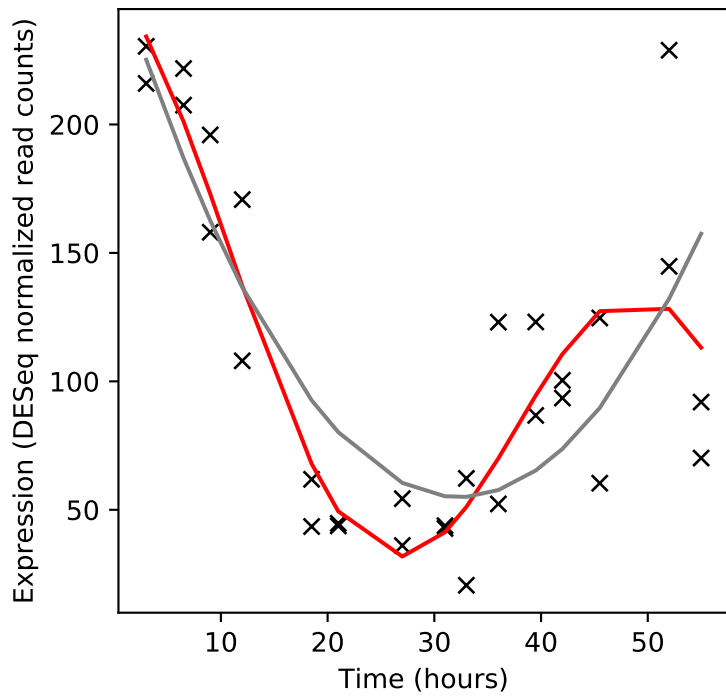
Rv0426c/-



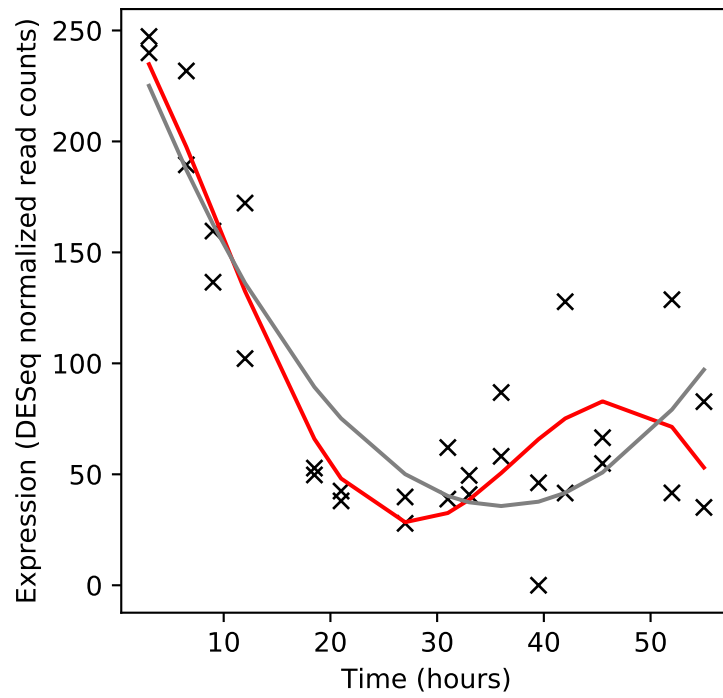
Rv0427c/xthA



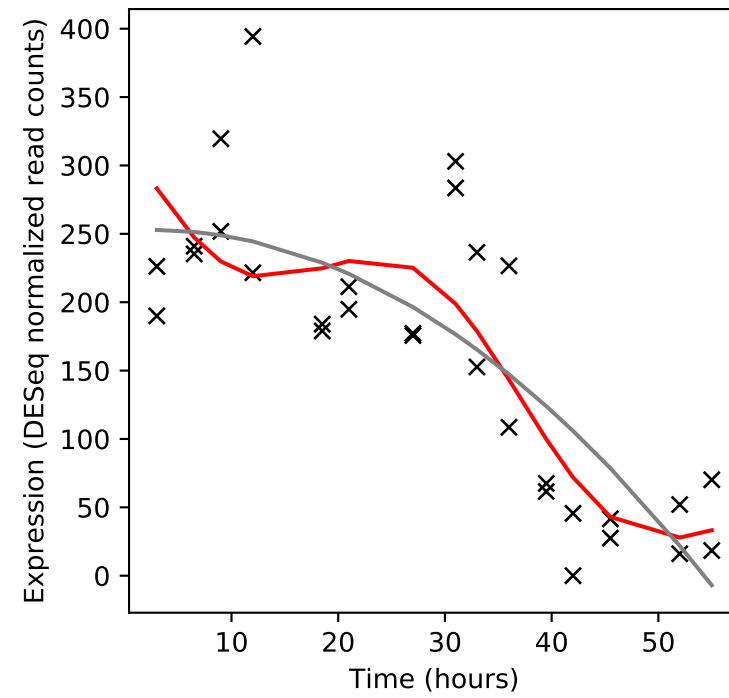
Rv0428c/-



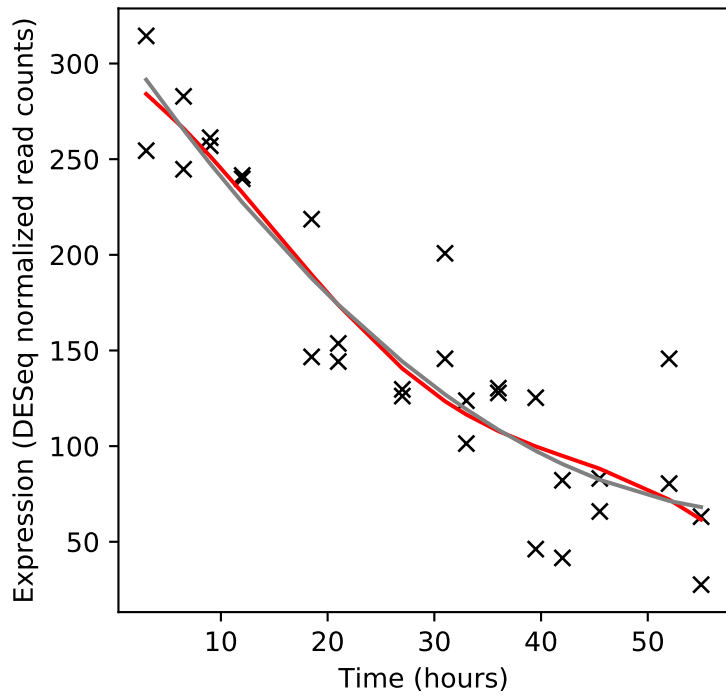
Rv0429c/def



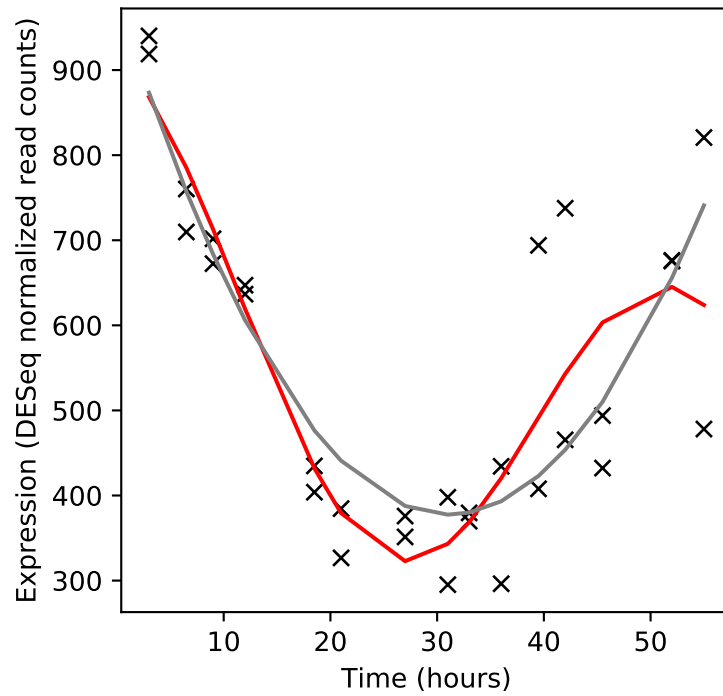
Rv0430/-



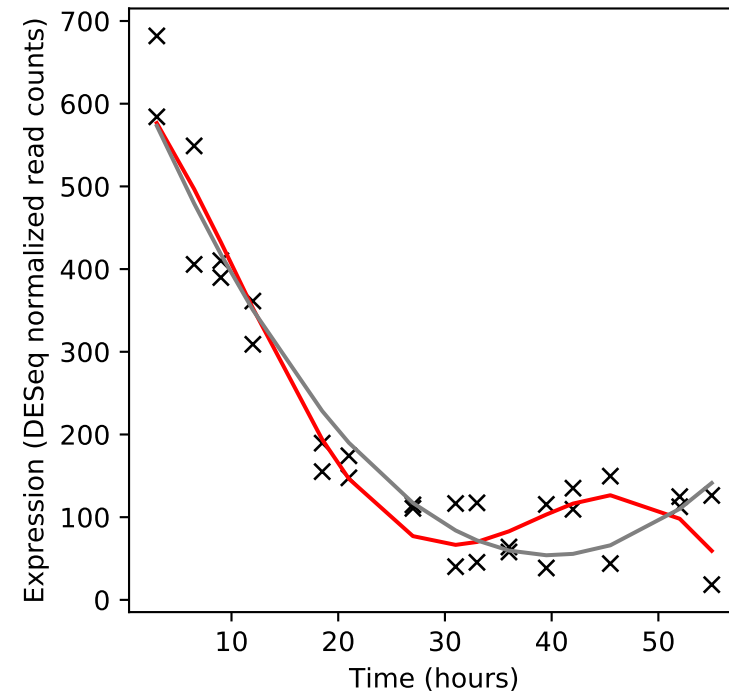
Rv0431/-



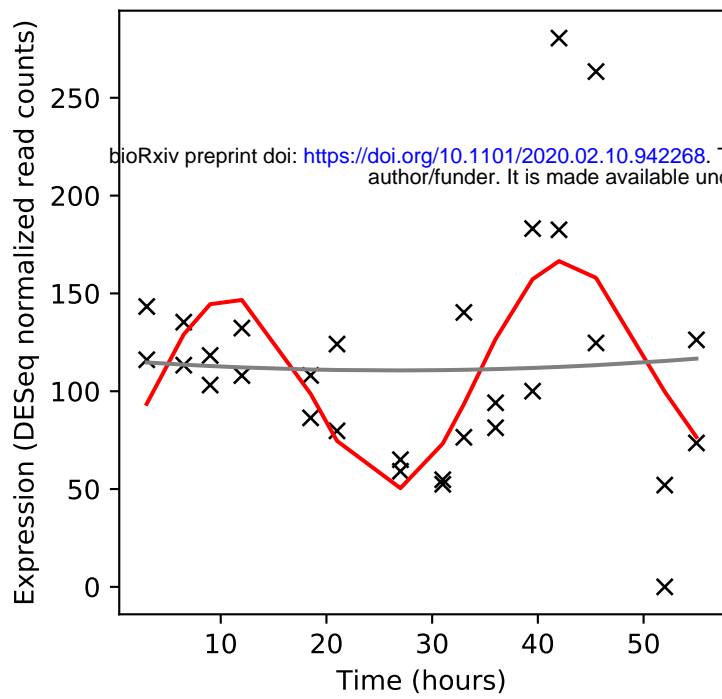
Rv0432/sodC



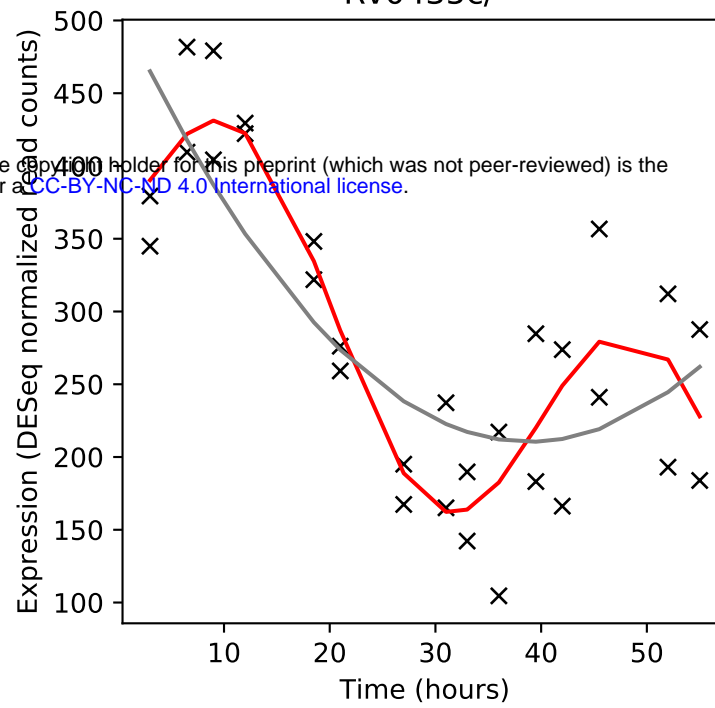
Rv0433/-



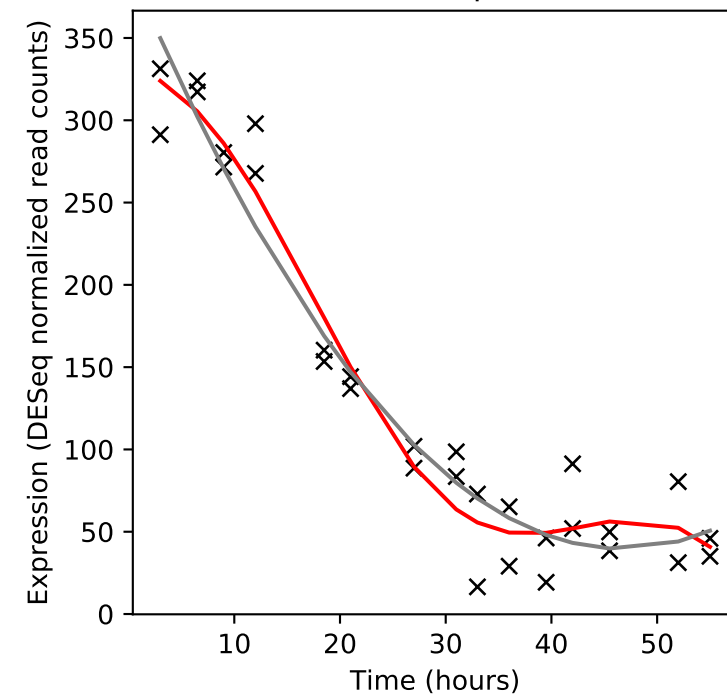
Rv0434/-



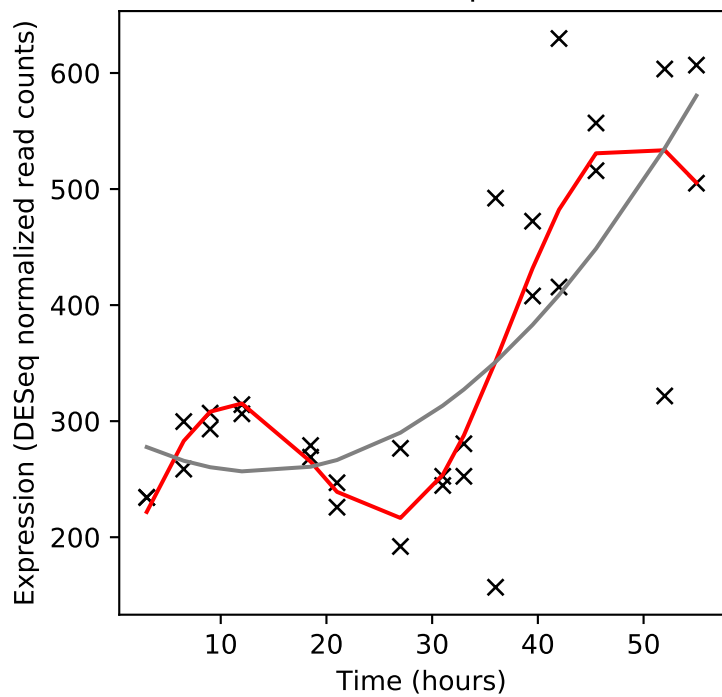
Rv0435c/-



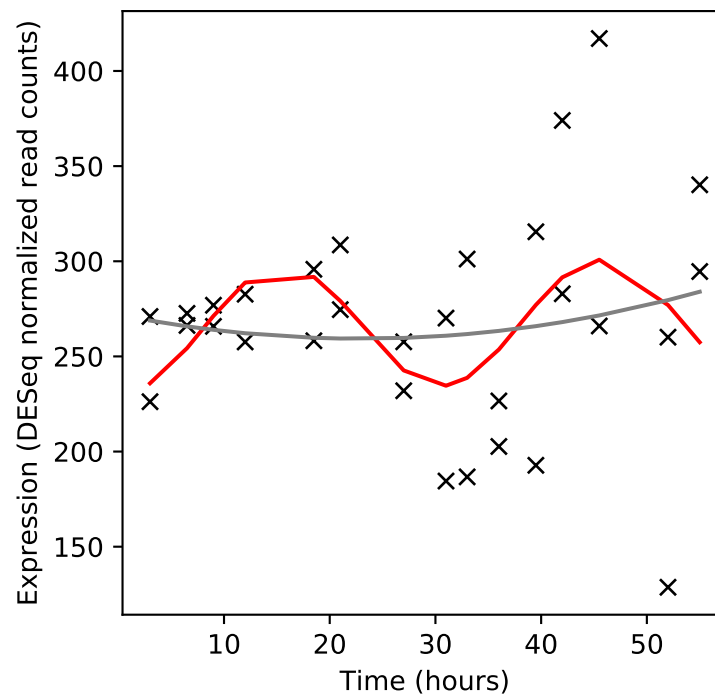
Rv0436c/pssA



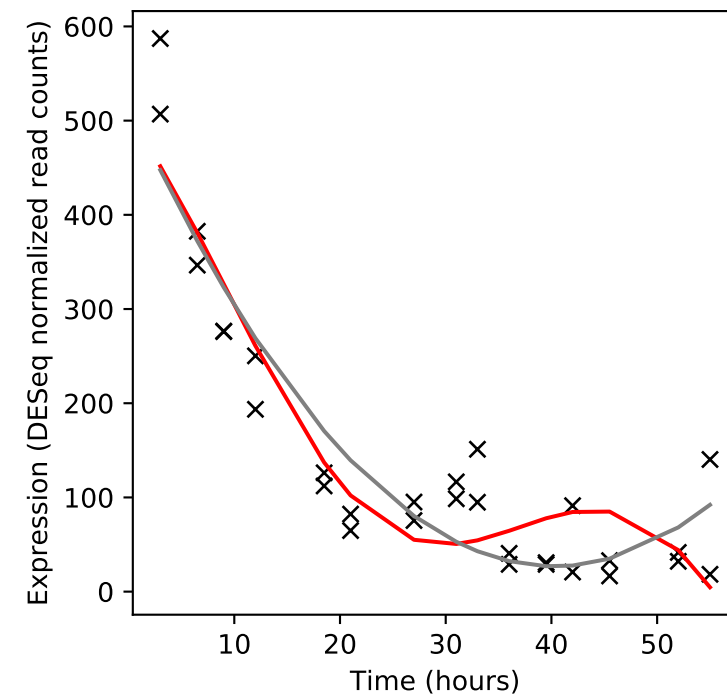
Rv0437c/psd



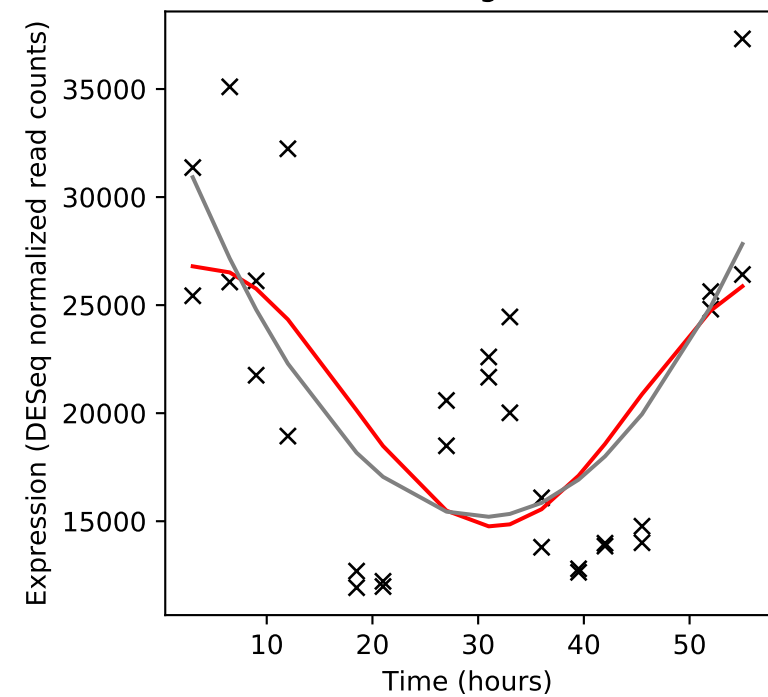
Rv0438c/moeA2



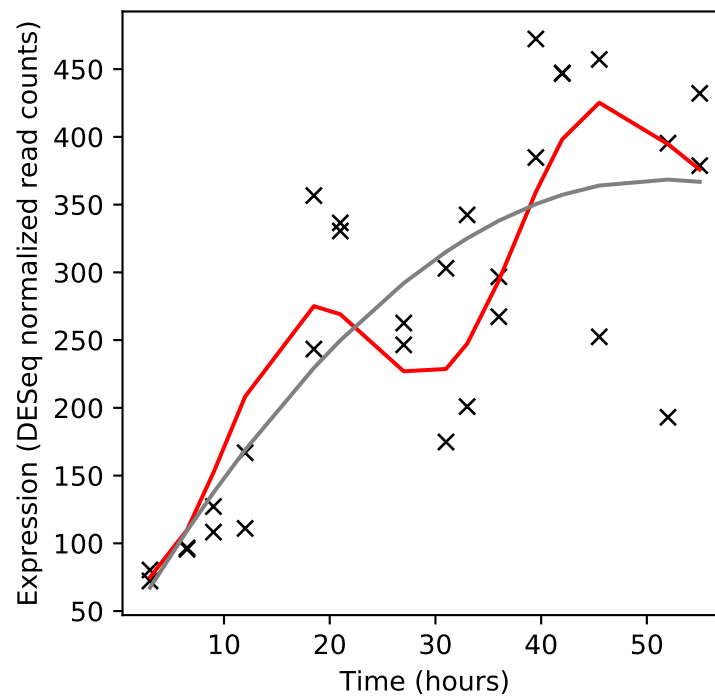
Rv0439c/-



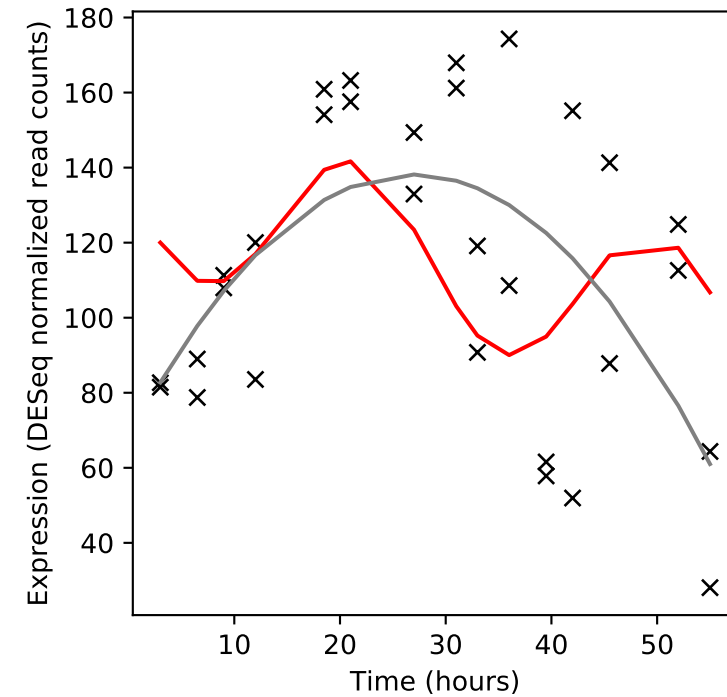
Rv0440/groEL2



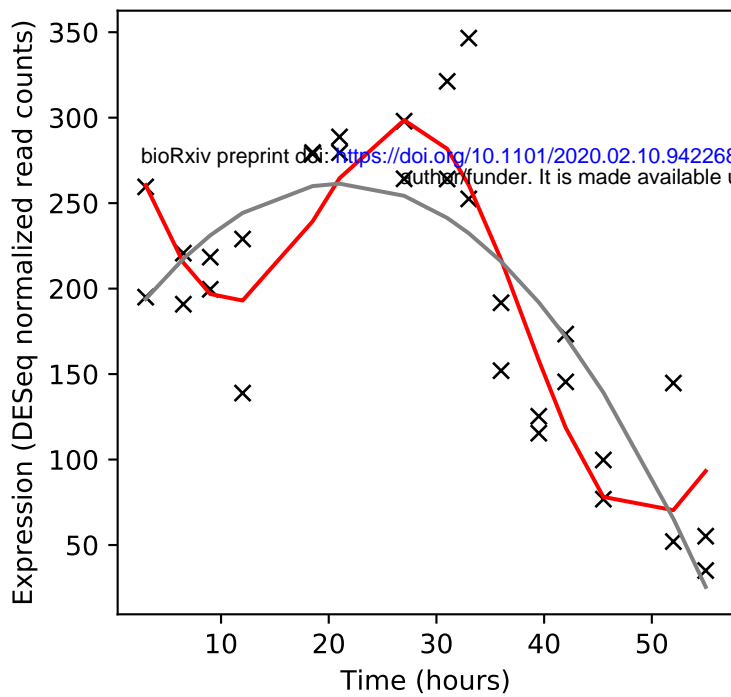
Rv0441c/-



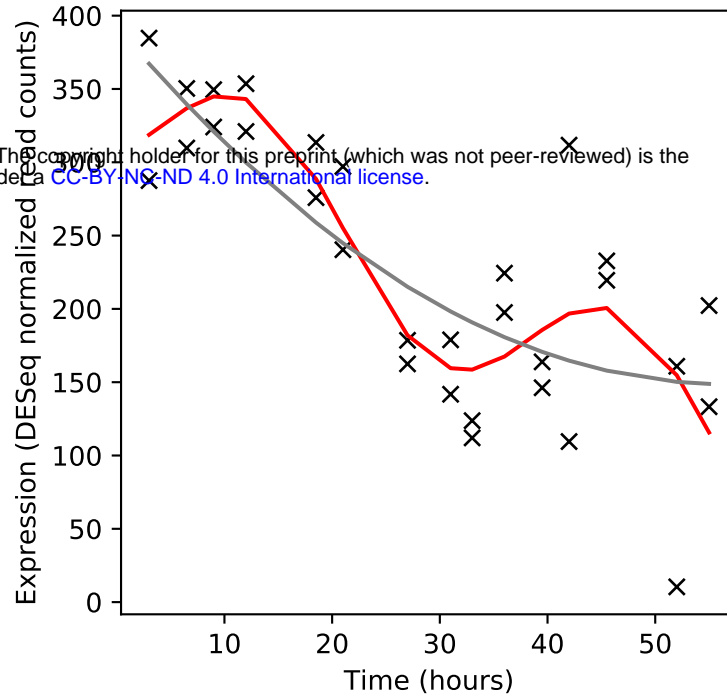
Rv0442c/PPE10



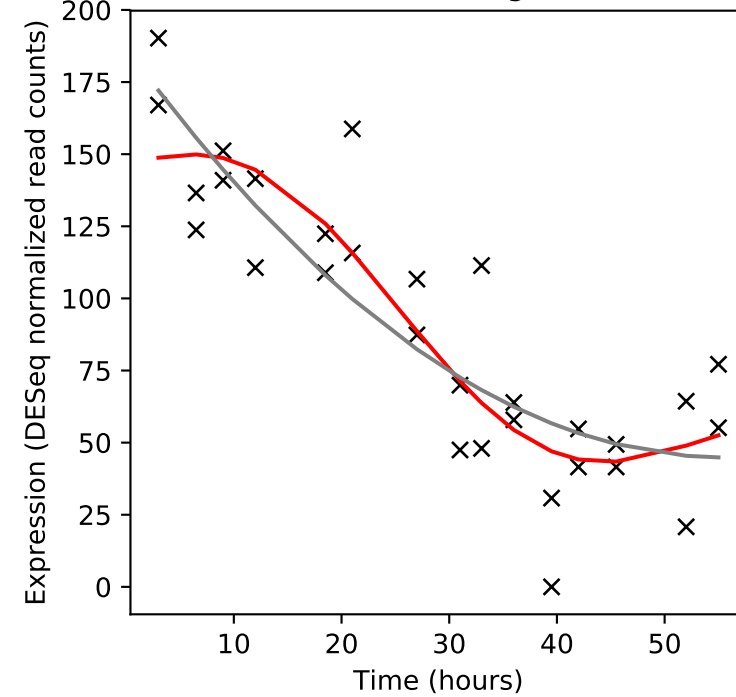
Rv0443/-



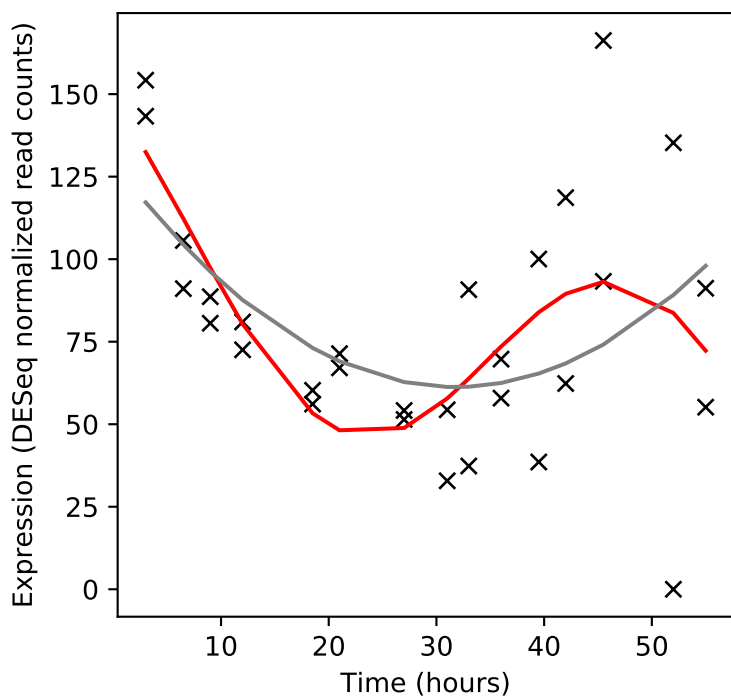
Rv0444c/rskA



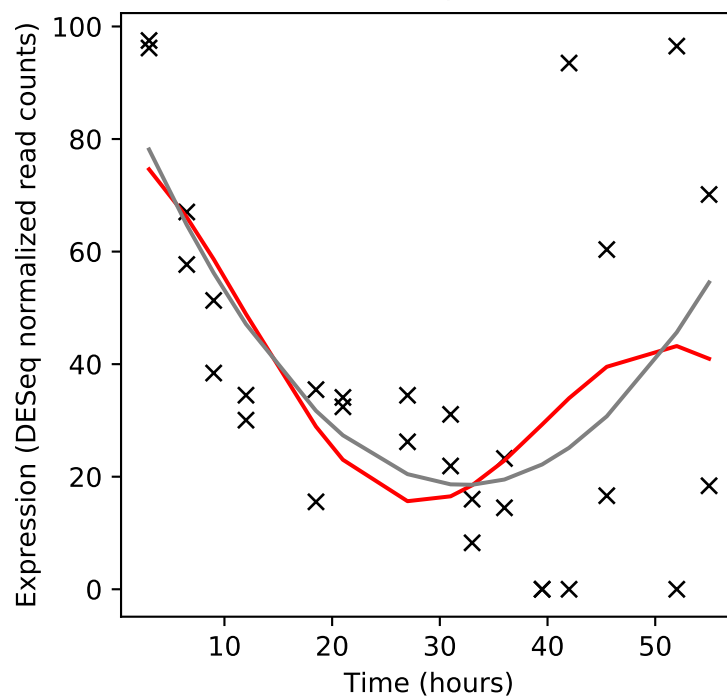
Rv0445c/sigK



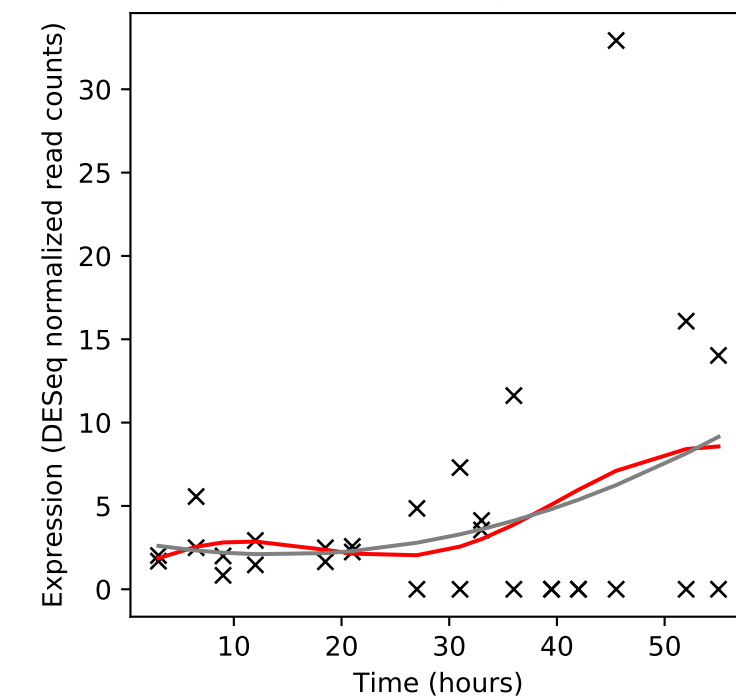
Rv0446c/-



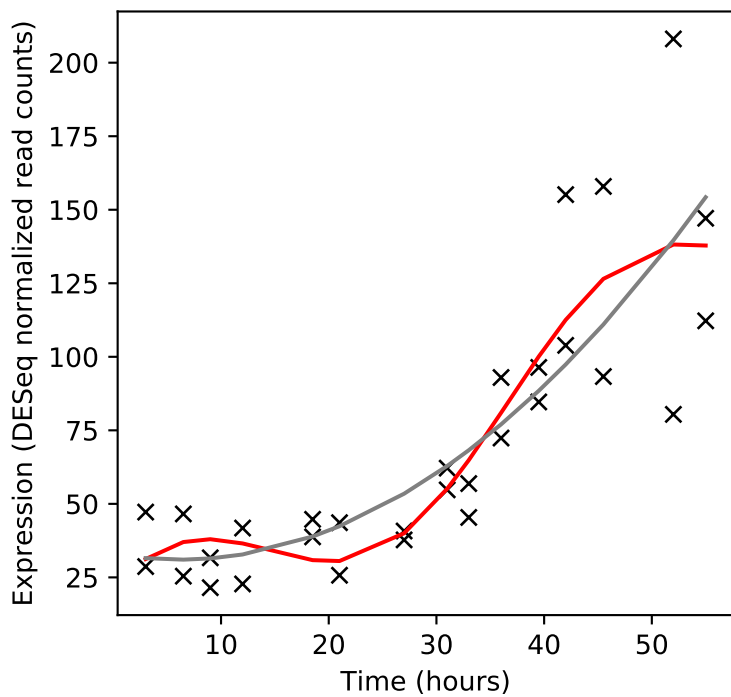
Rv0447c/ufaA1



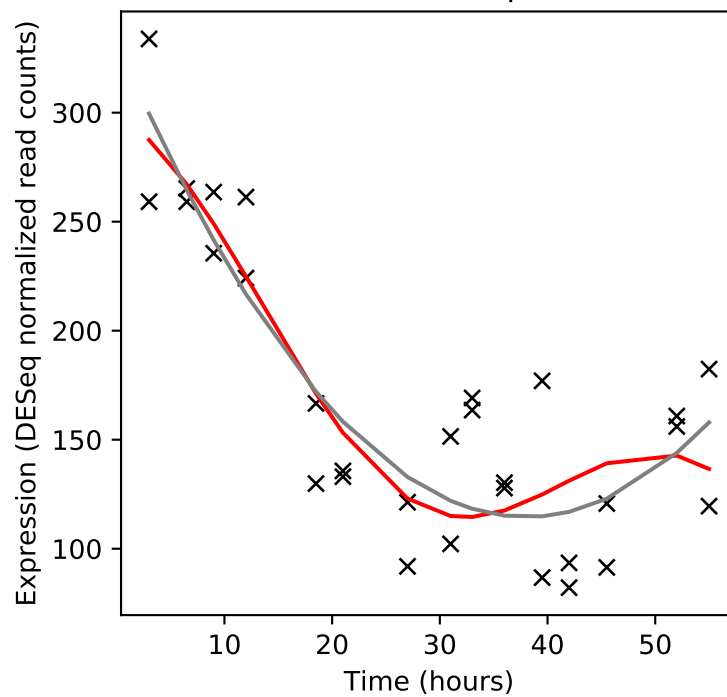
Rv0448c/-



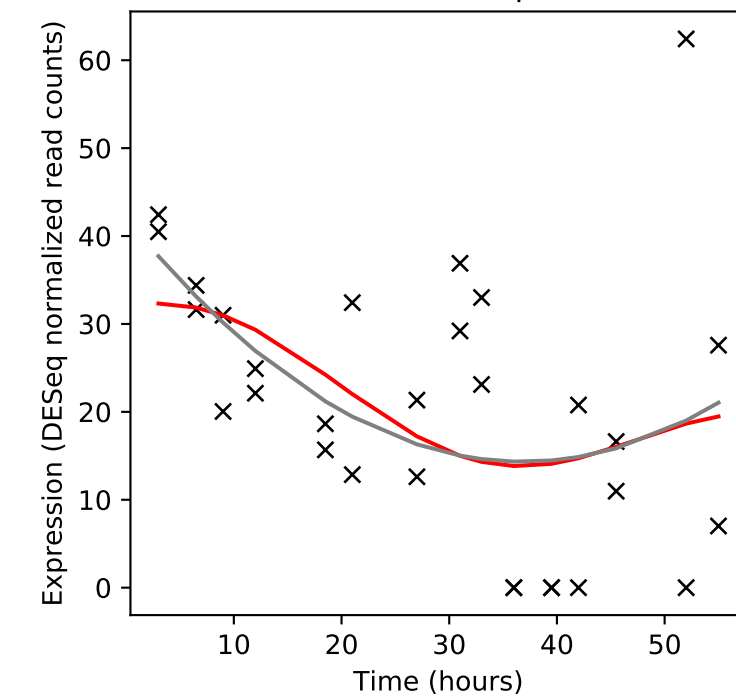
Rv0449c/-



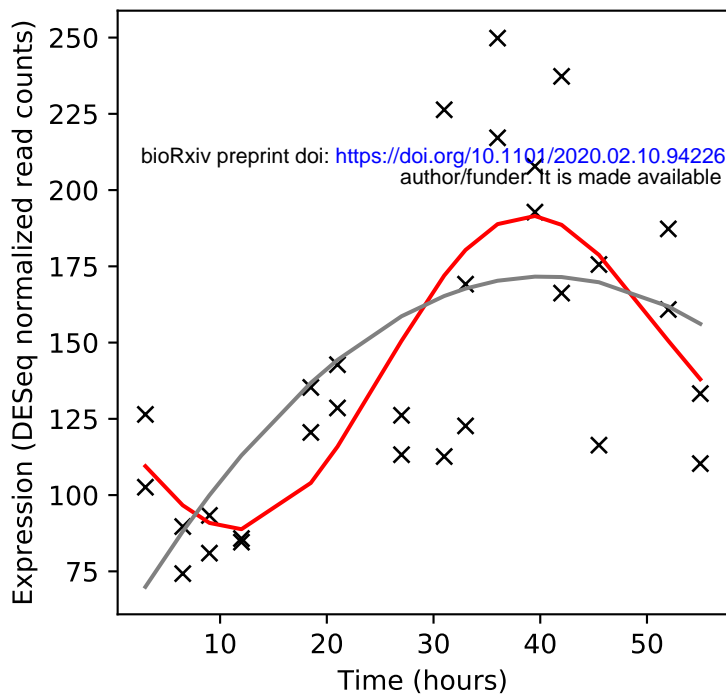
Rv0450c/mmpL4



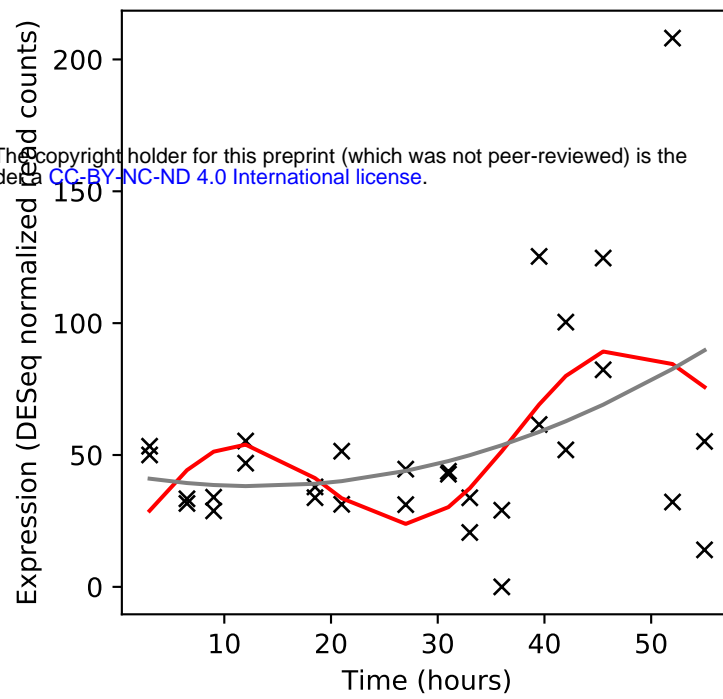
Rv0451c/mmpS4



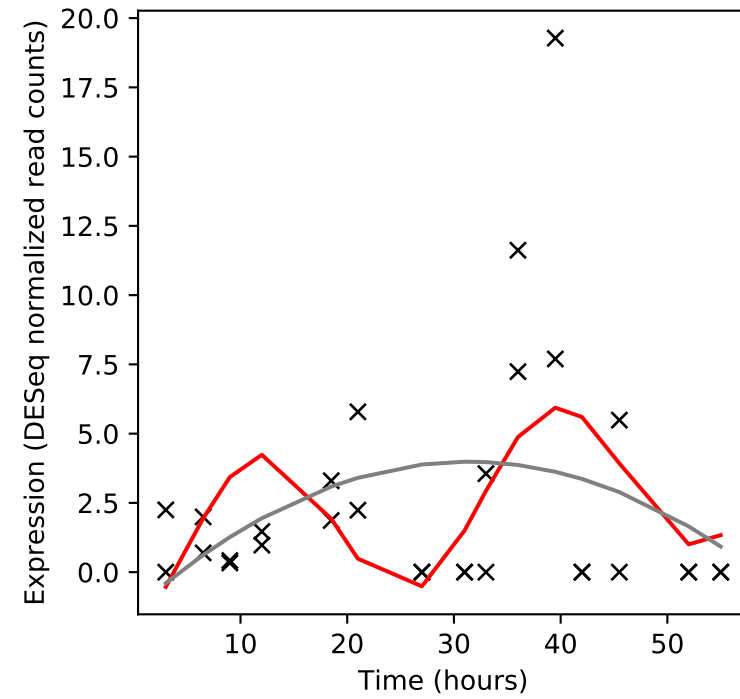
Rv0452/-



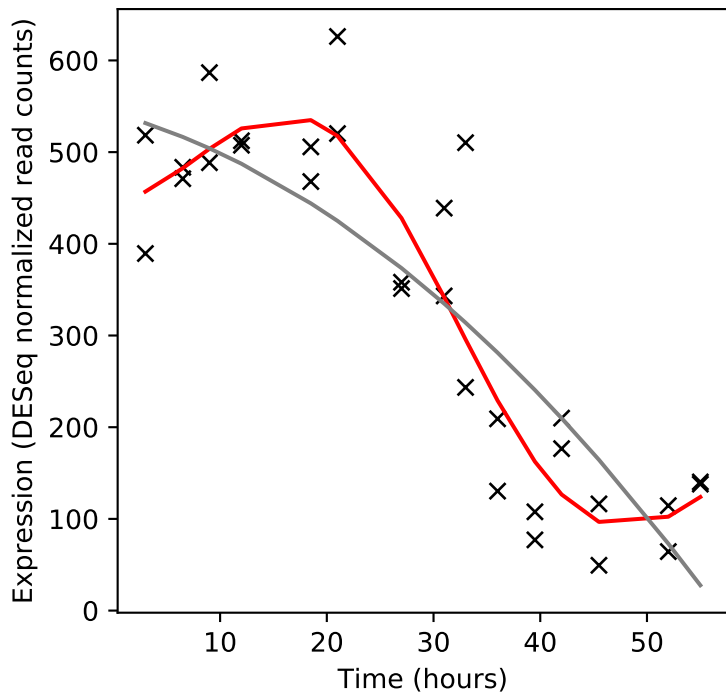
Rv0453/PPE11



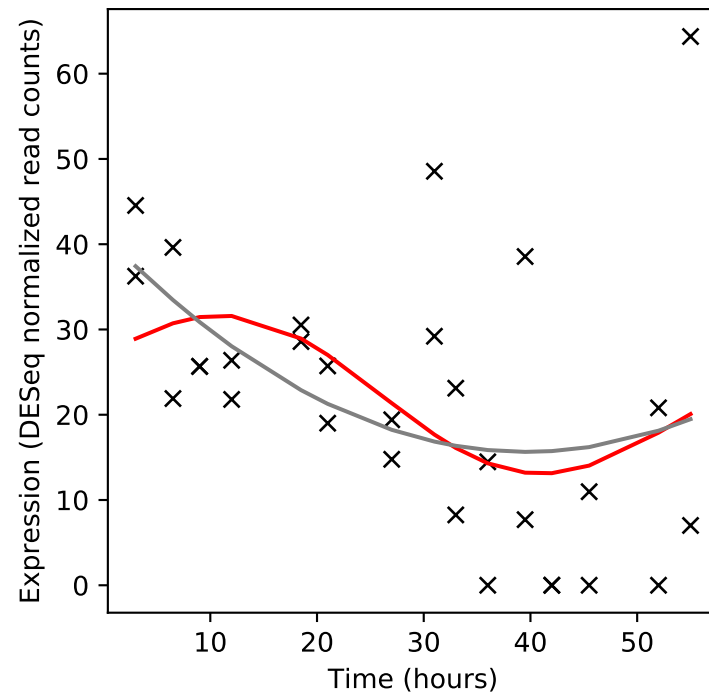
Rv0454/-



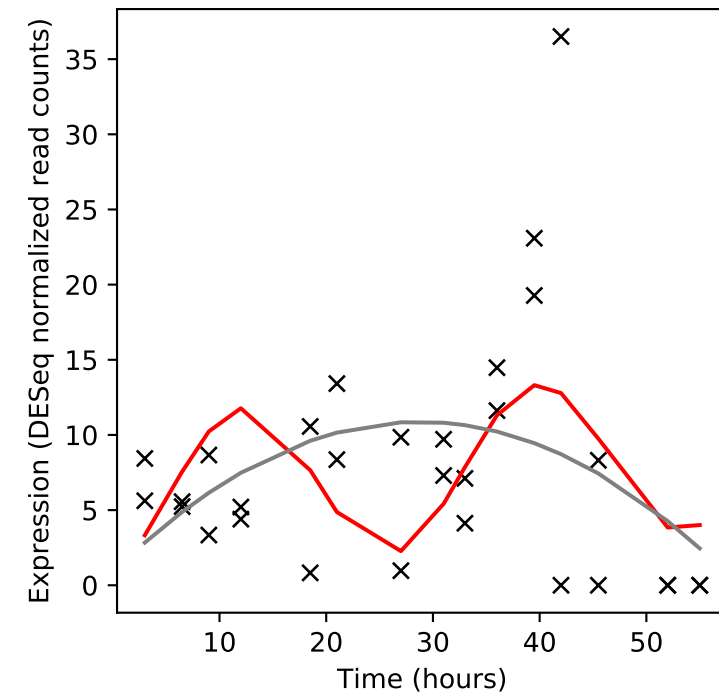
Rv0455c/-



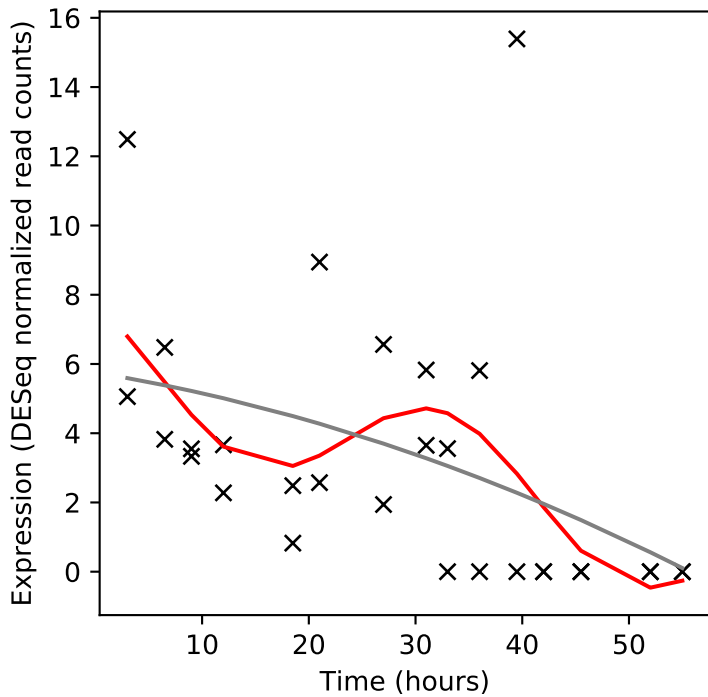
Rv0456c/echA2



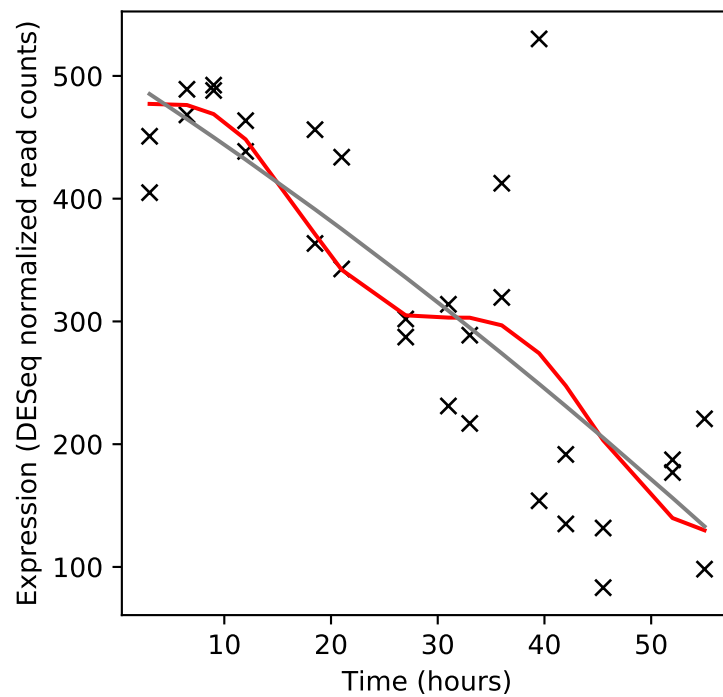
Rv0456A/mazF1



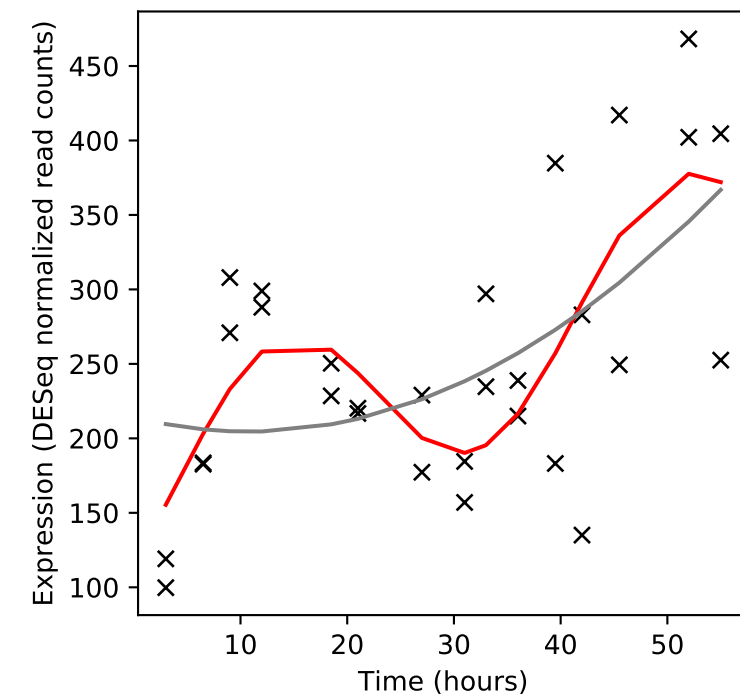
Rv0456B/mazE1



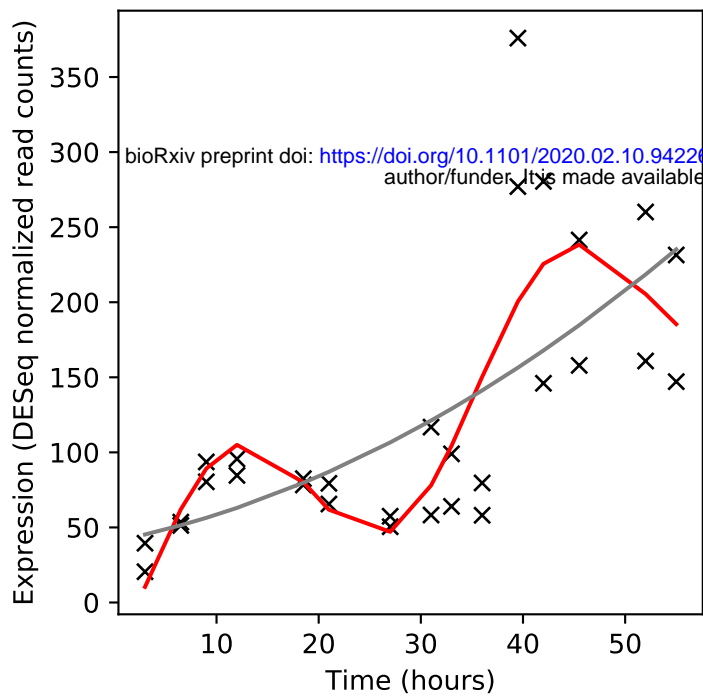
Rv0457c/-



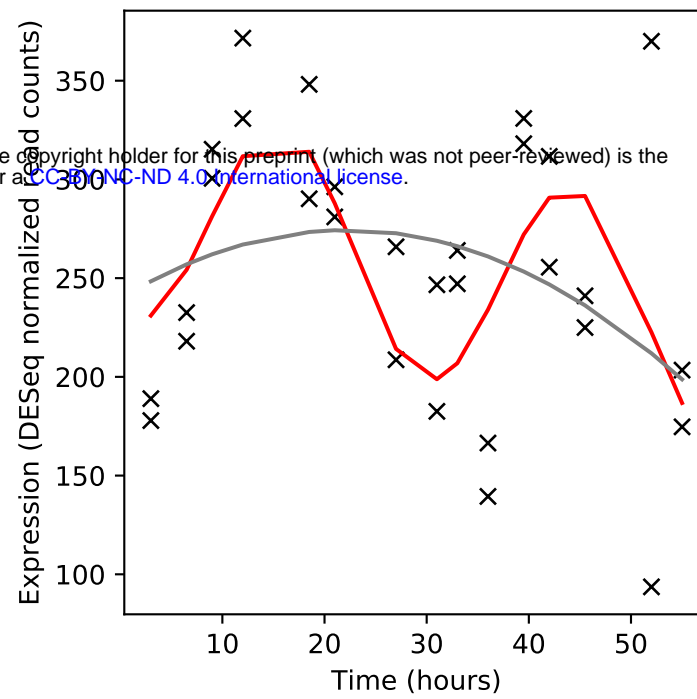
Rv0458/-



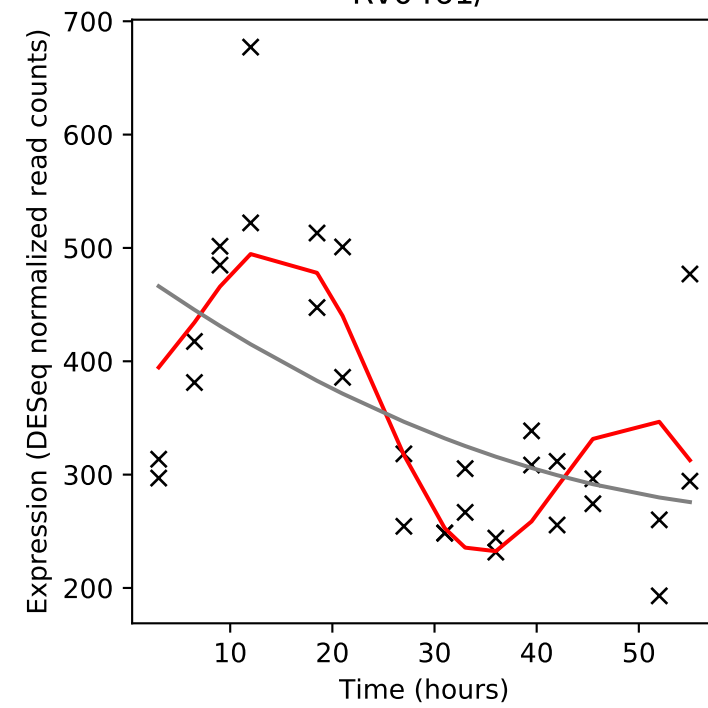
Rv0459/-



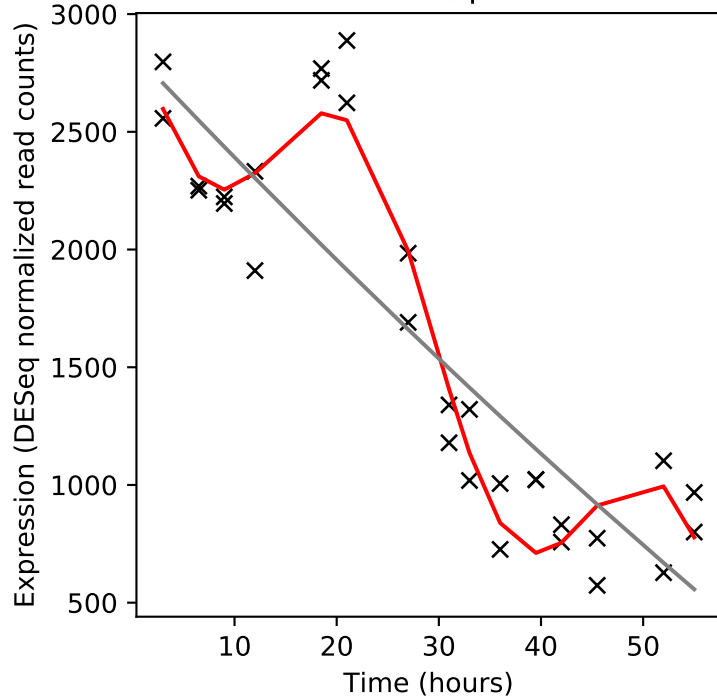
Rv0460/-



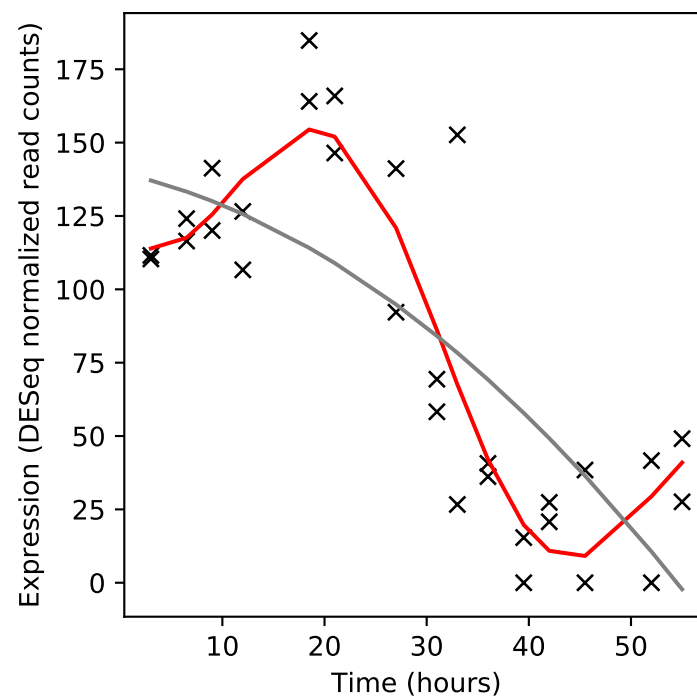
Rv0461/-



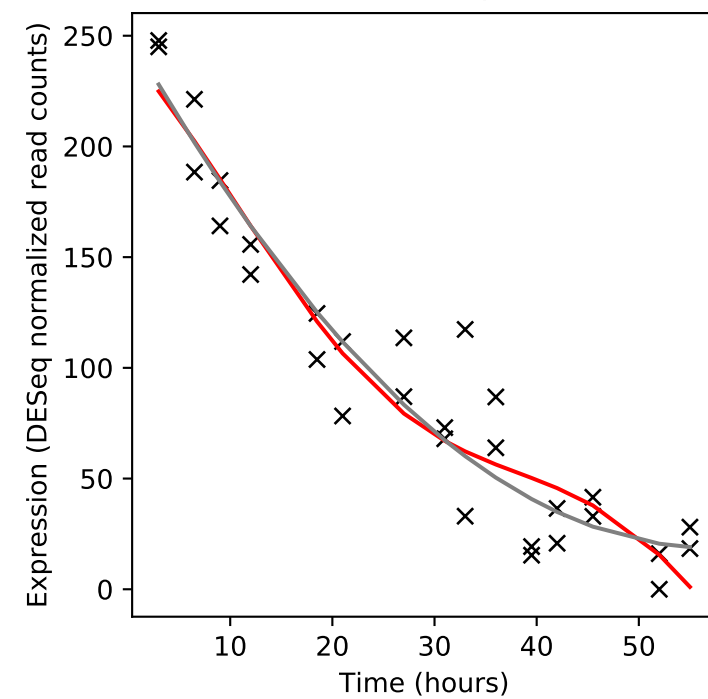
Rv0462/lpdC



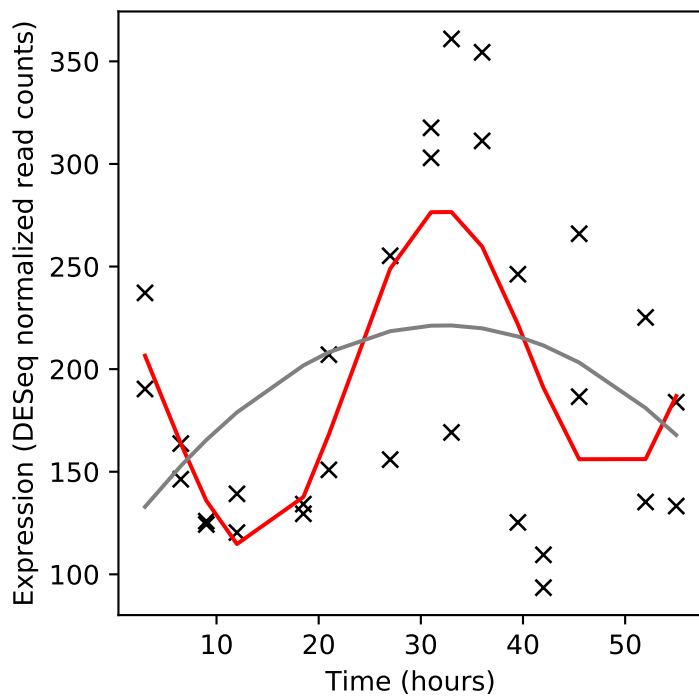
Rv0463/-



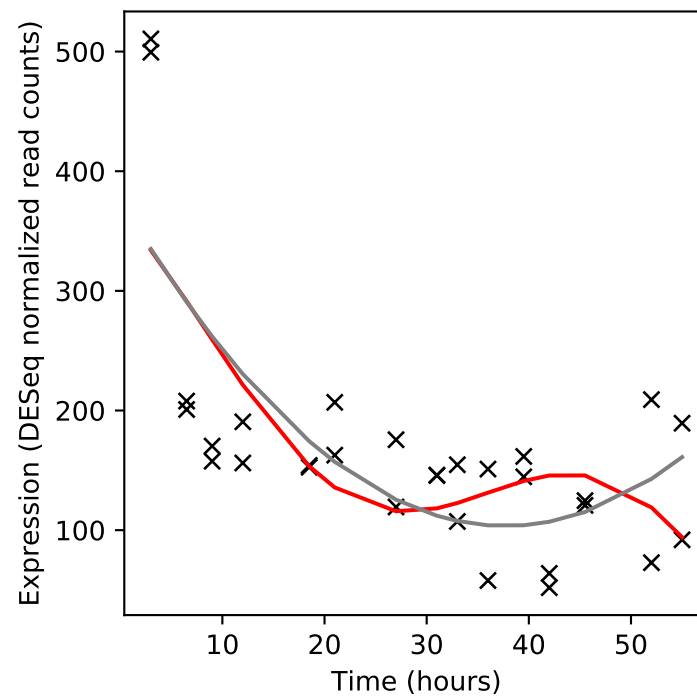
Rv0464c/-



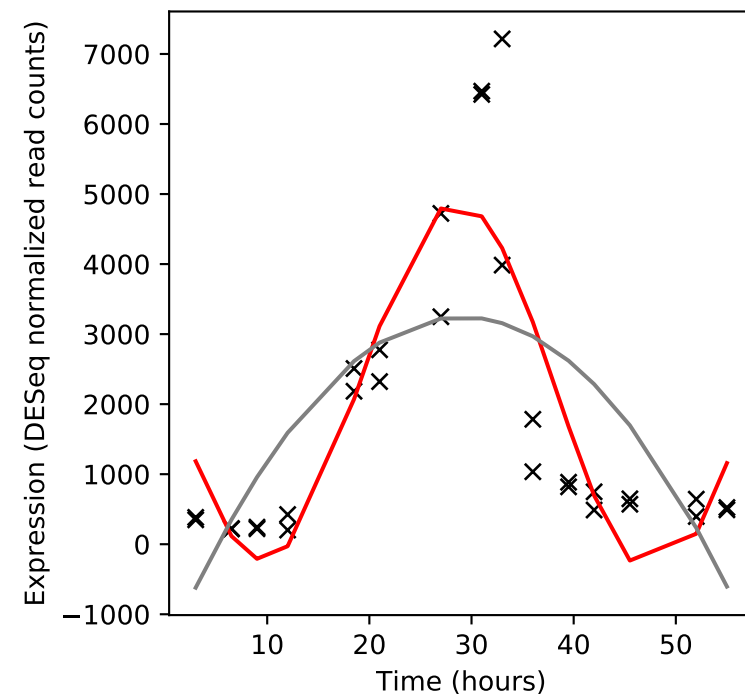
Rv0465c/-



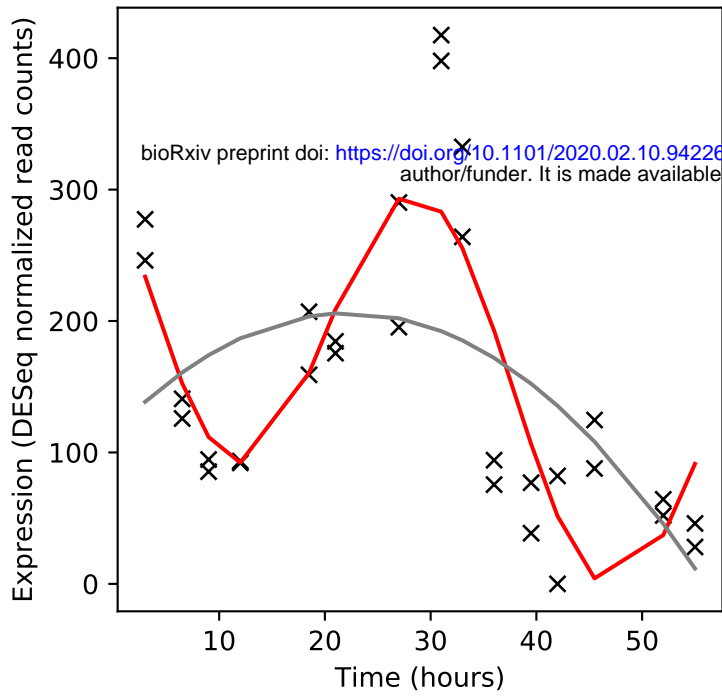
Rv0466/-



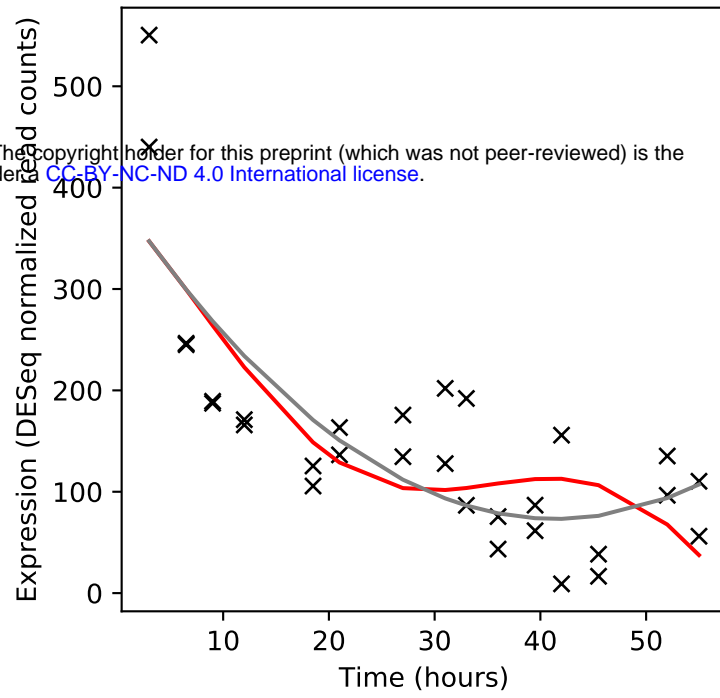
Rv0467/icl1



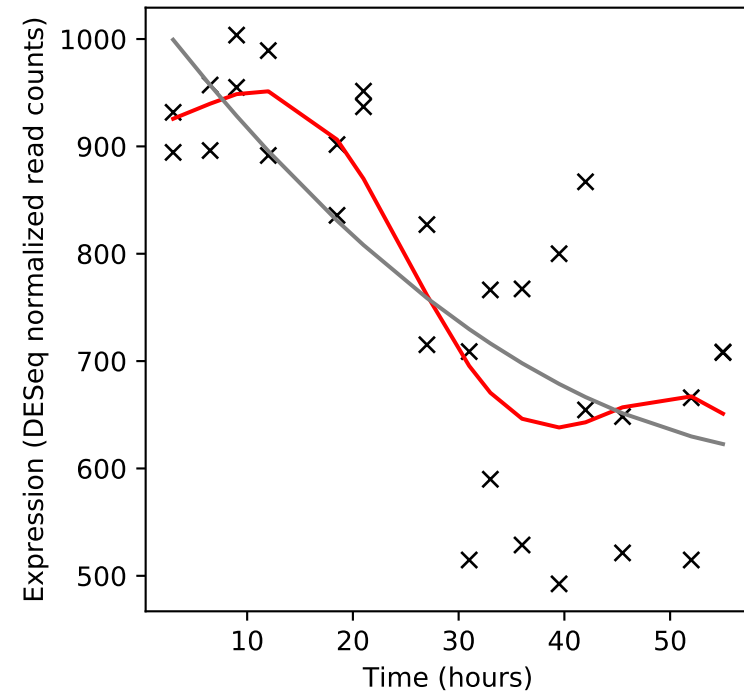
Rv0468/fadB2



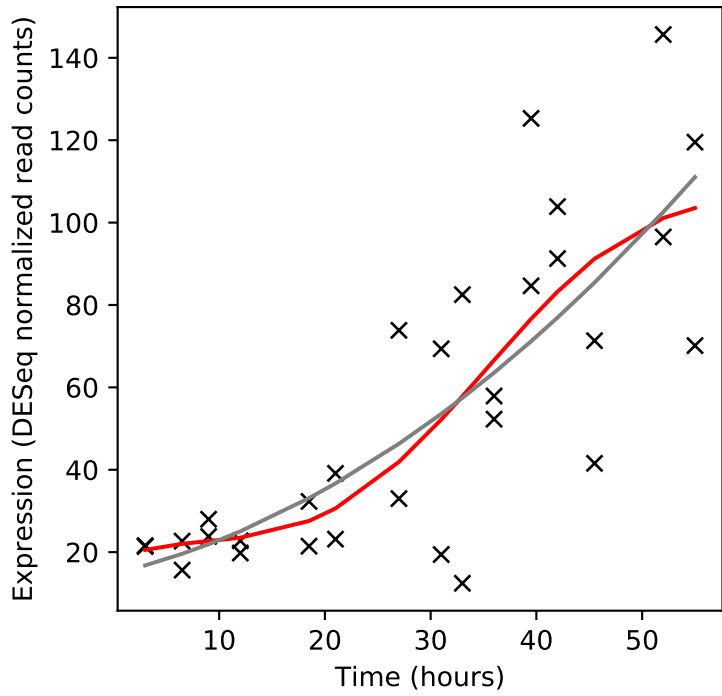
Rv0469/umaA



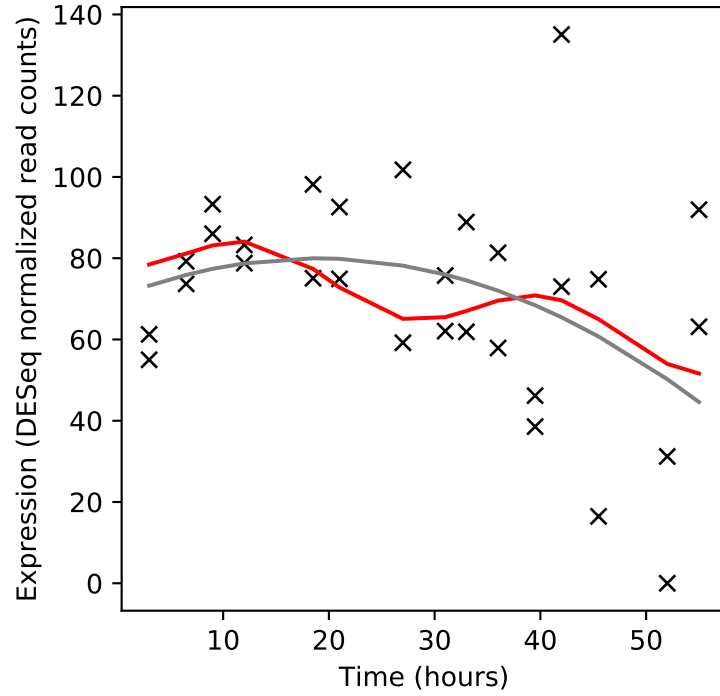
Rv0470c/pcaA



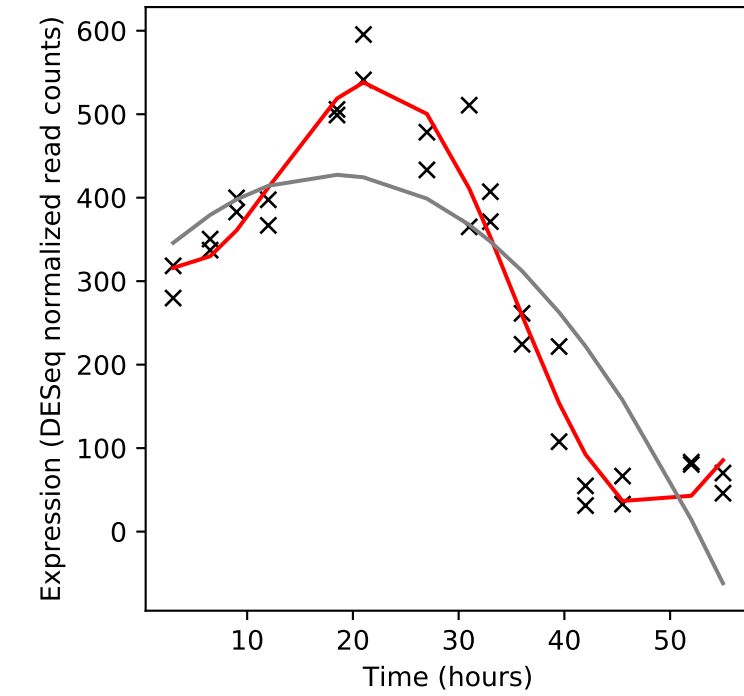
Rv0470A/-



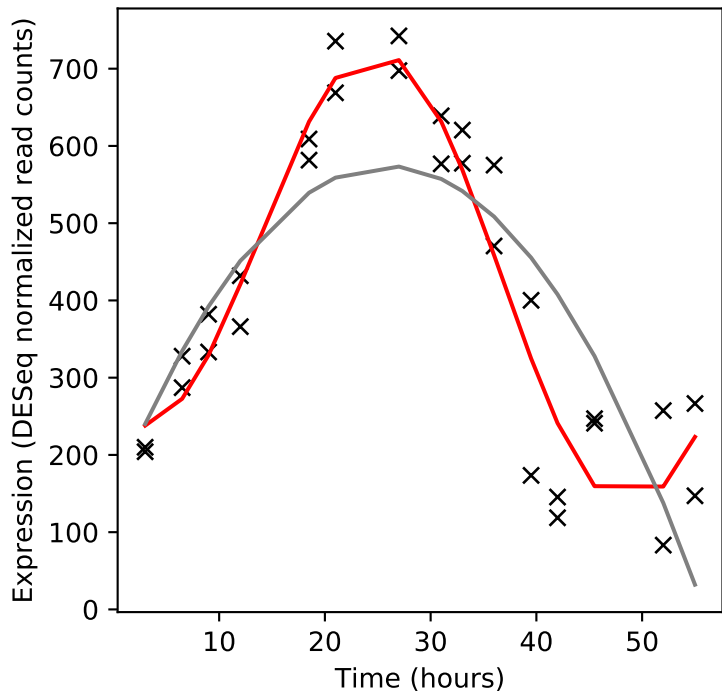
Rv0471c/-



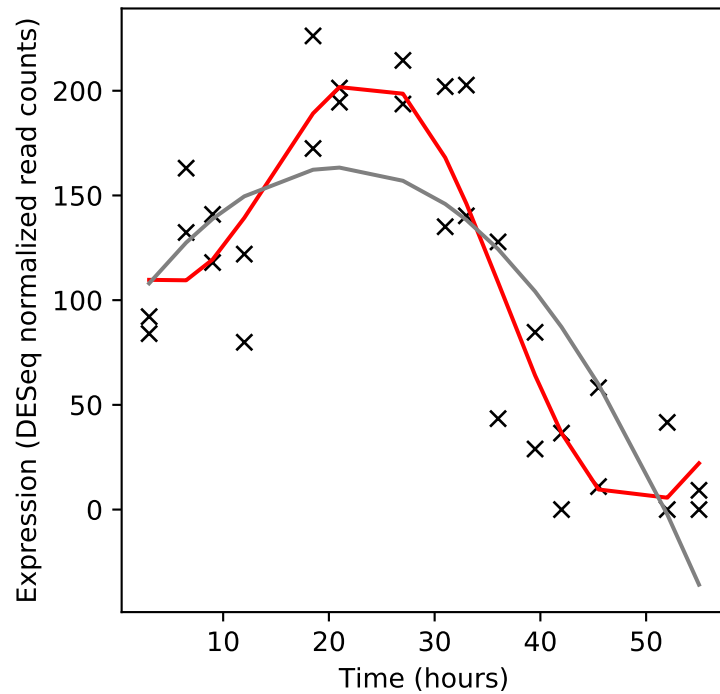
Rv0472c/-



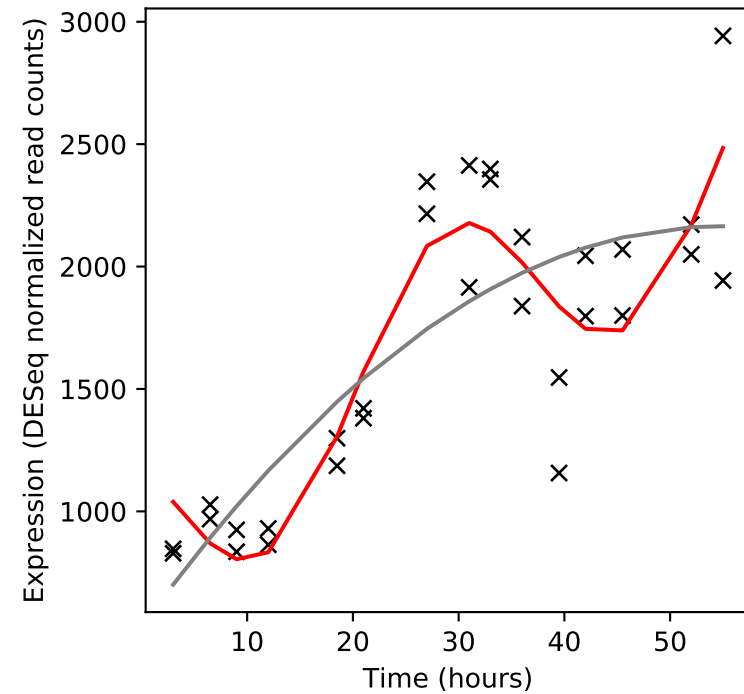
Rv0473/-



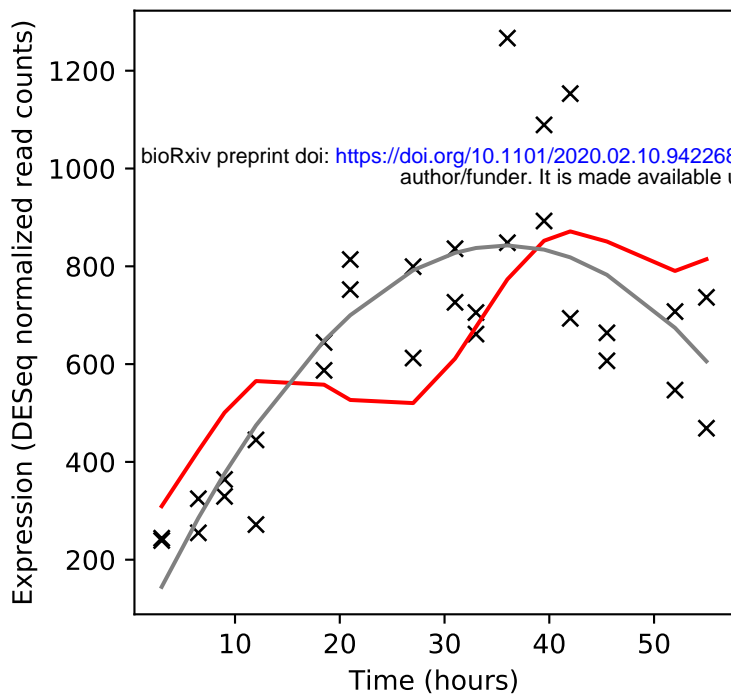
Rv0474/-



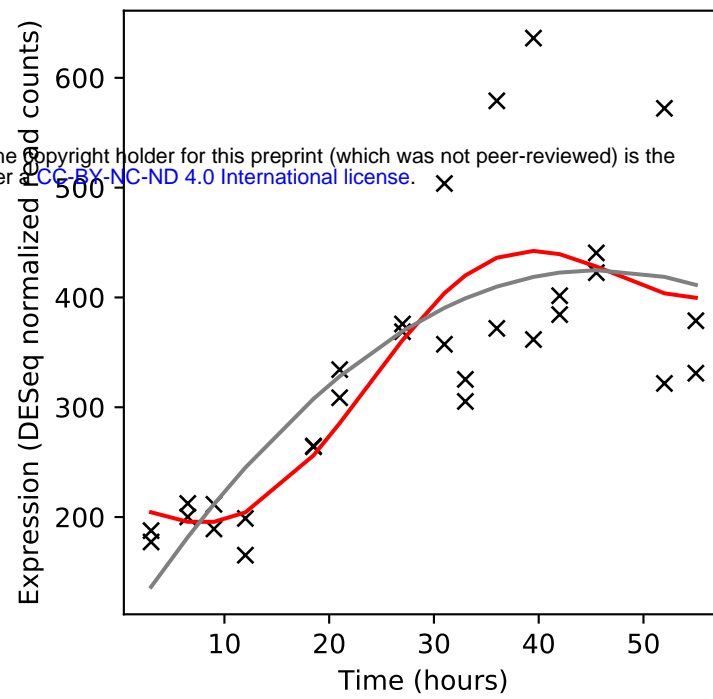
Rv0475/hbhA



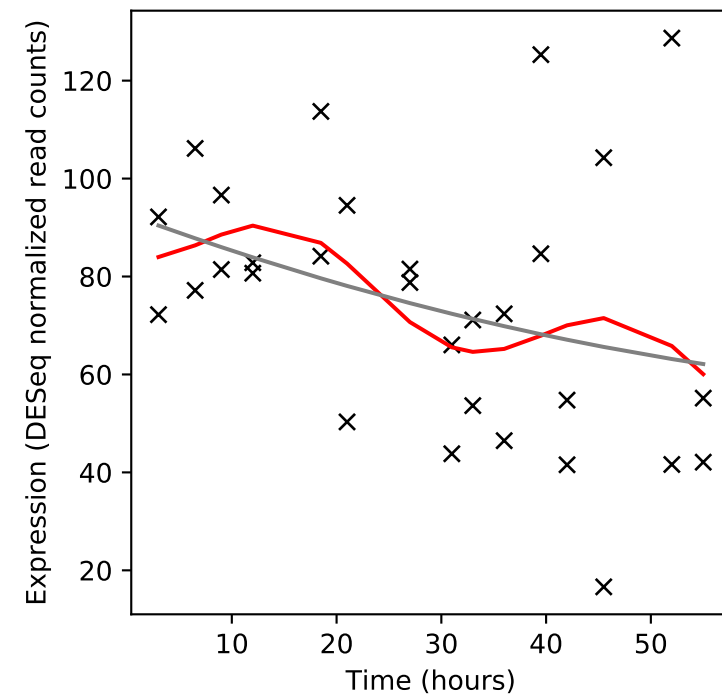
Rv0476/-



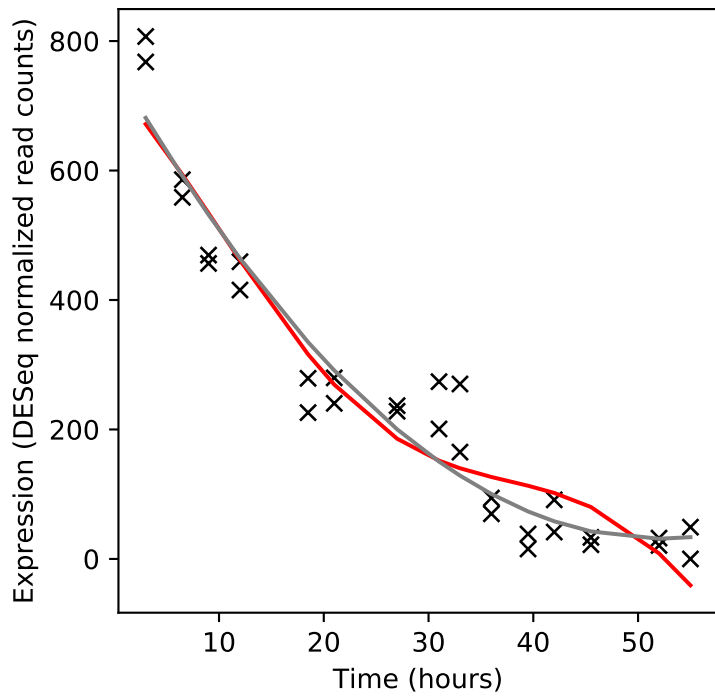
Rv0477/-



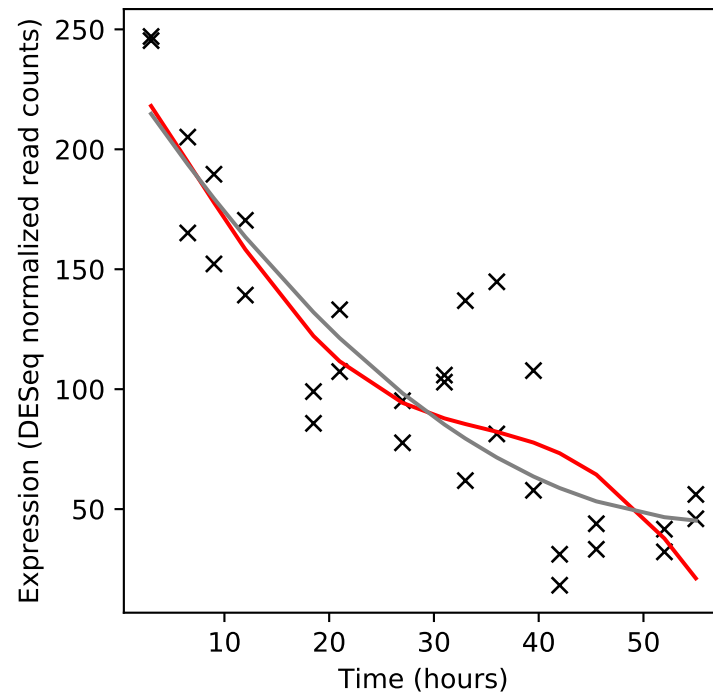
Rv0478/deoC



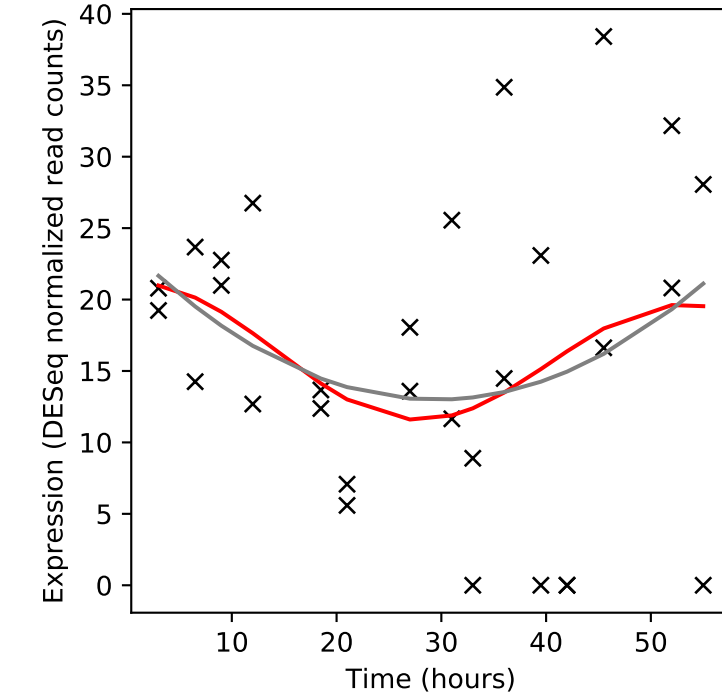
Rv0479c/-



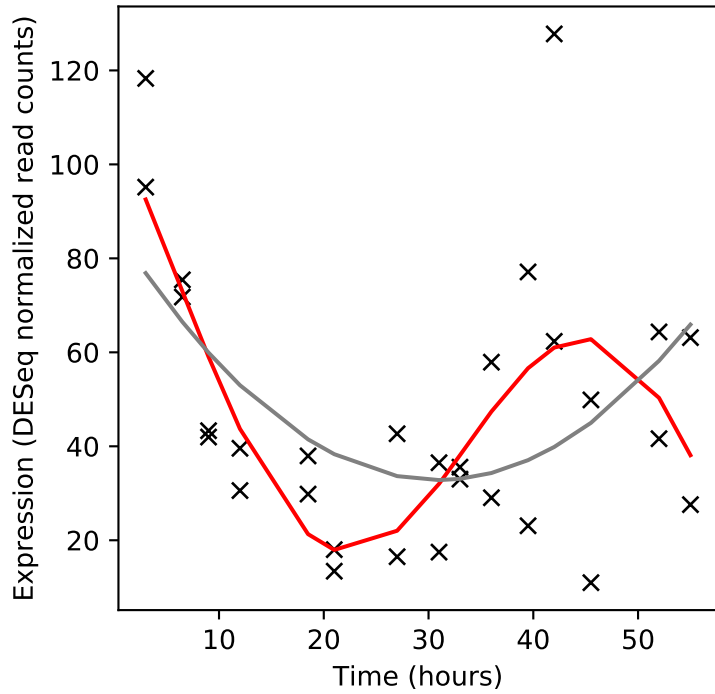
Rv0480c/-



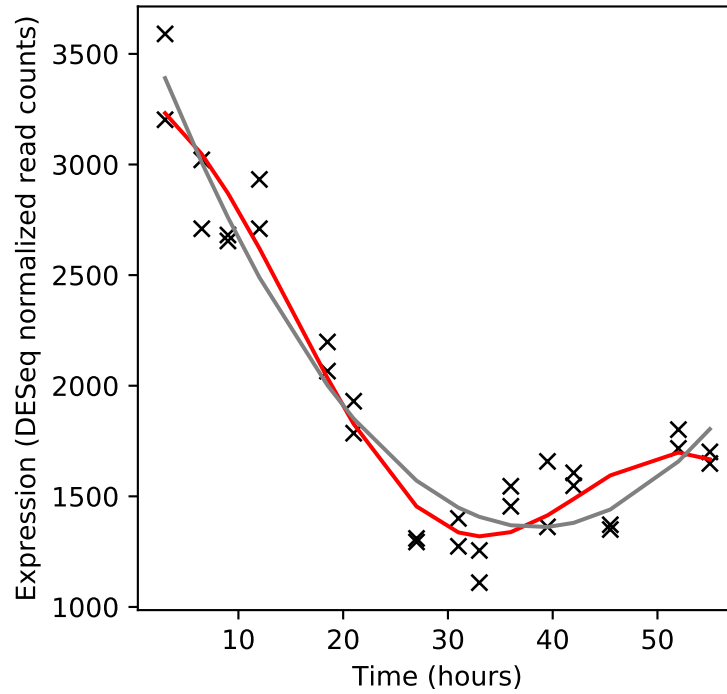
Rv0481c/-



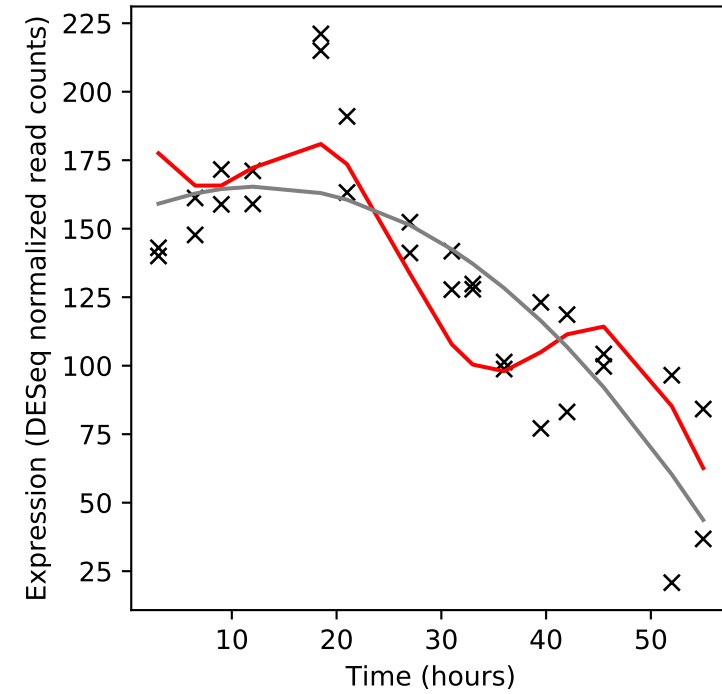
Rv0482/murB



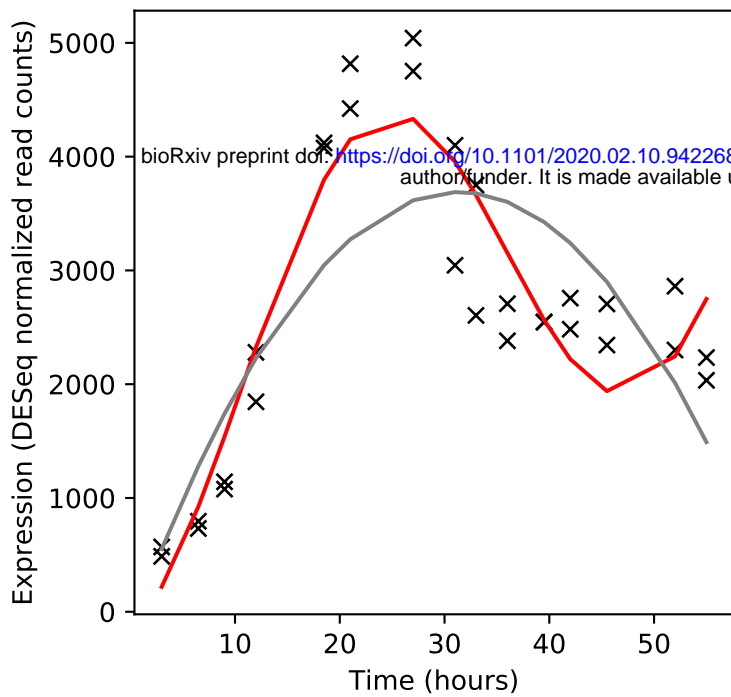
Rv0483/lprQ



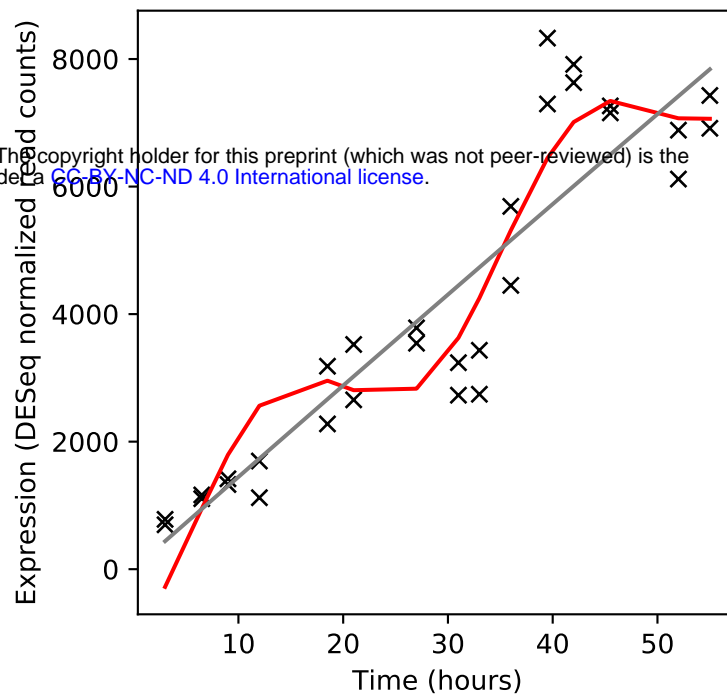
Rv0484c/-



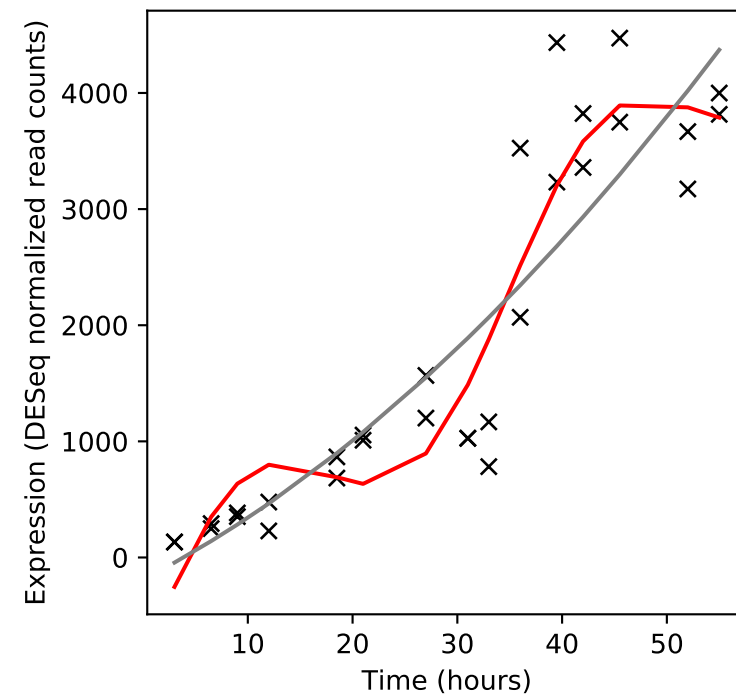
Rv0485/-



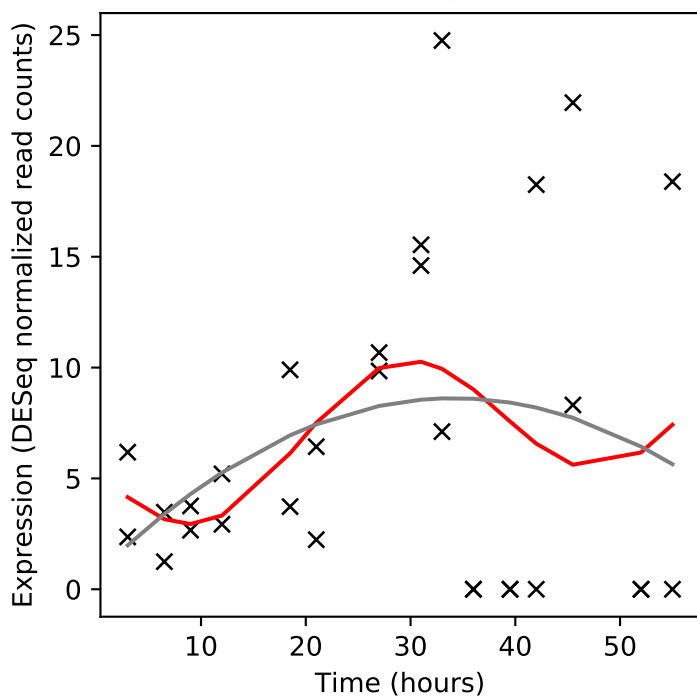
Rv0486/mshA



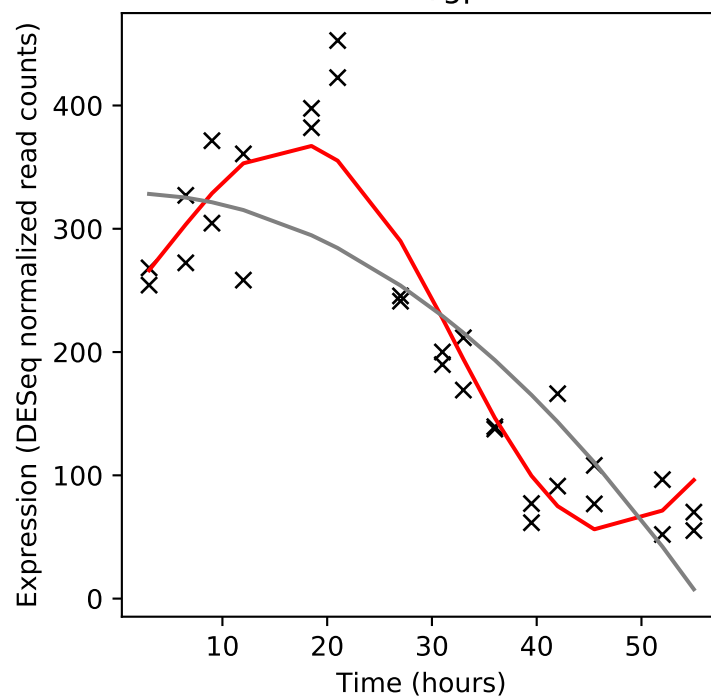
Rv0487/-



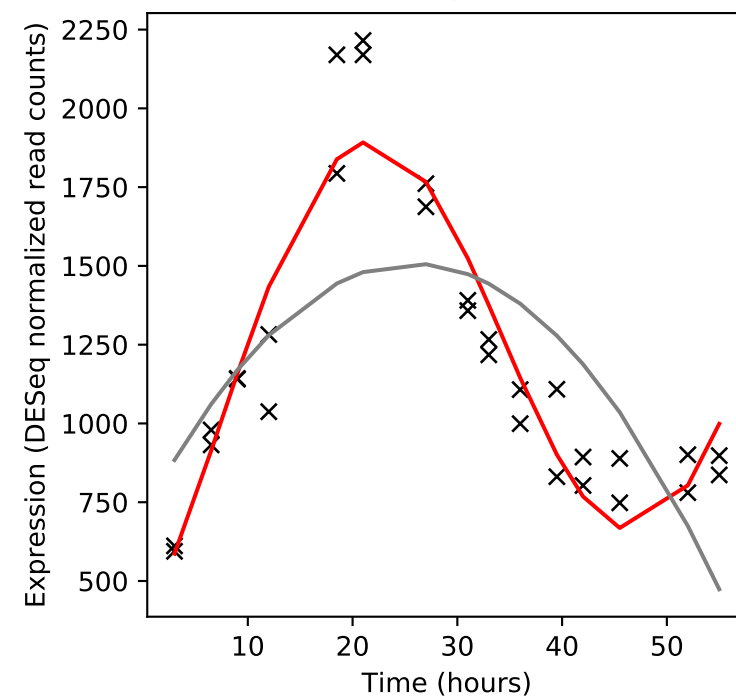
Rv0488/-



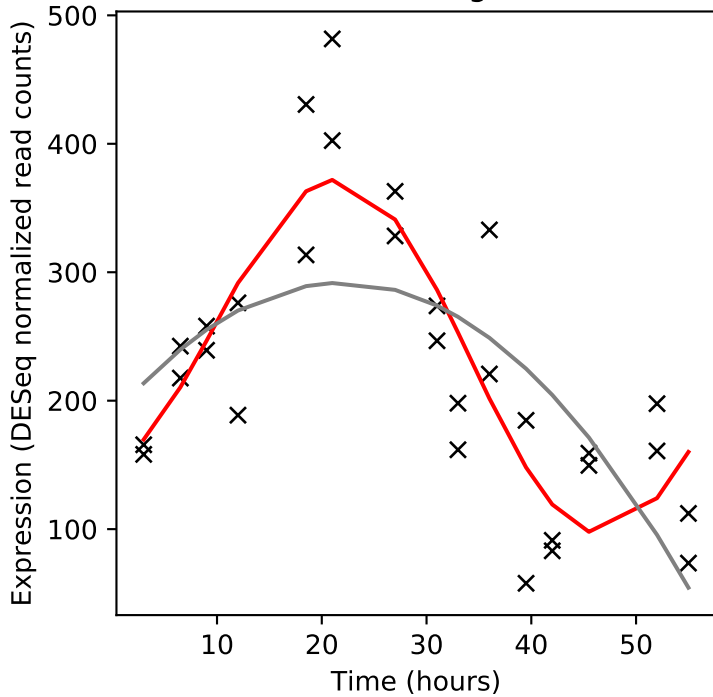
Rv0489/gpm1



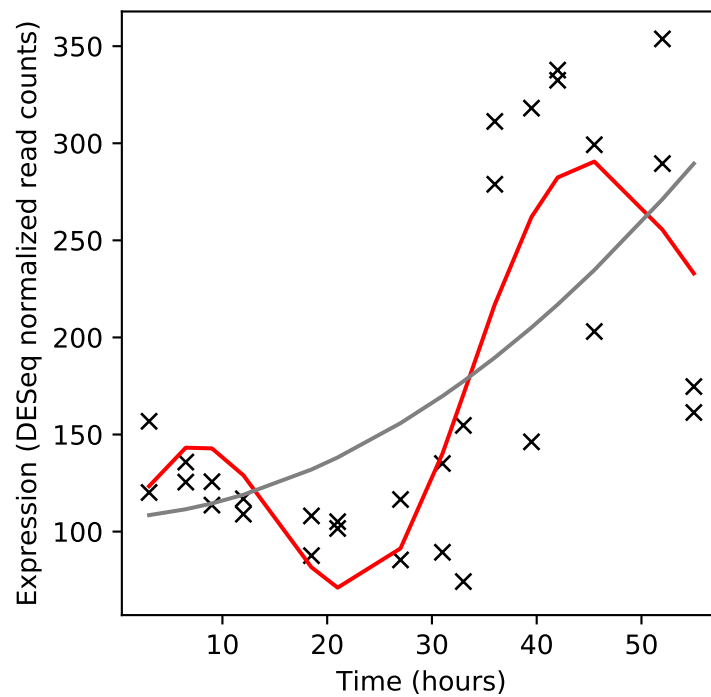
Rv0490/senX3



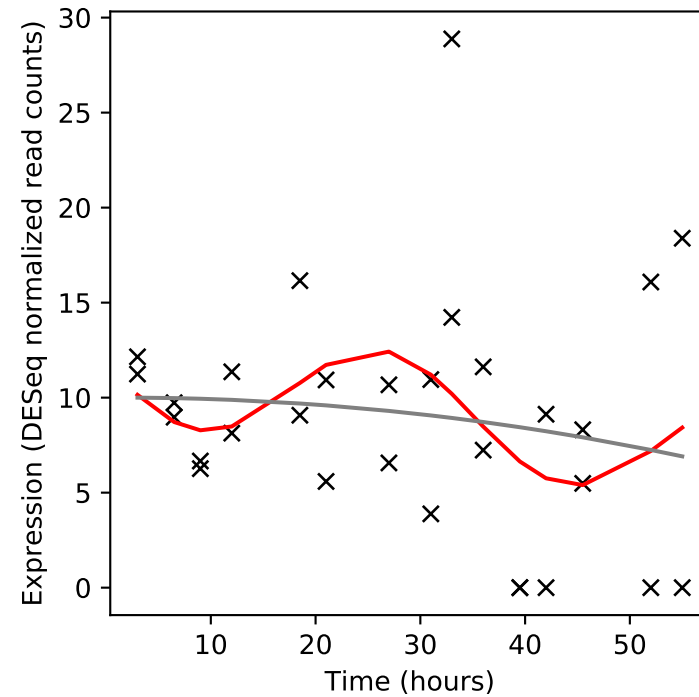
Rv0491/regX3



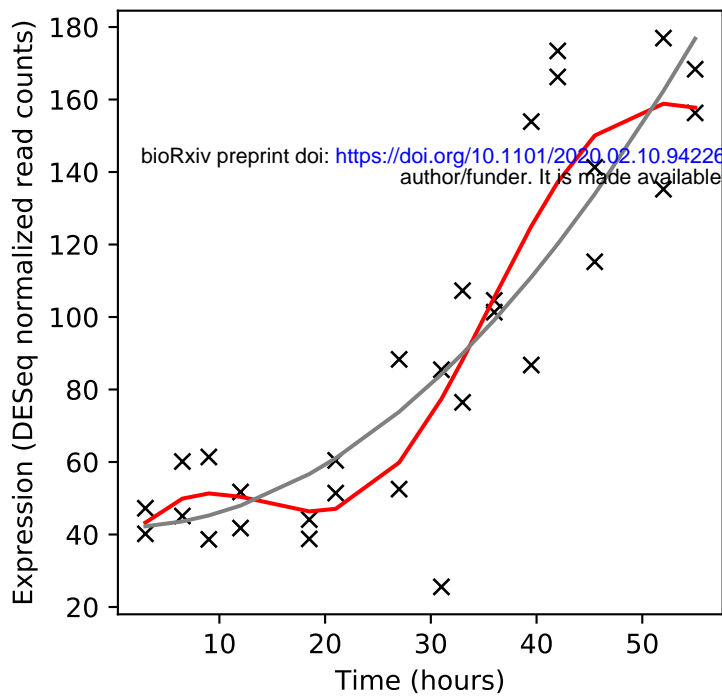
Rv0492c/-



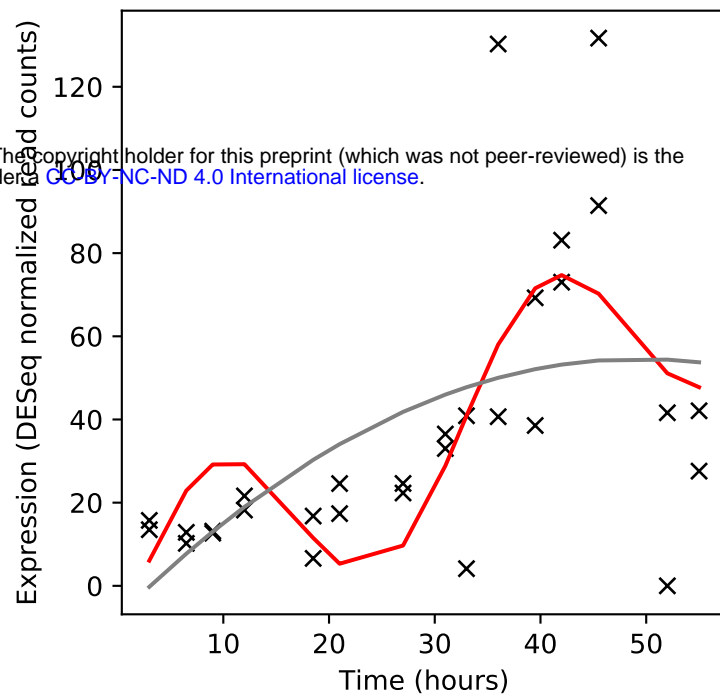
Rv0492A/-



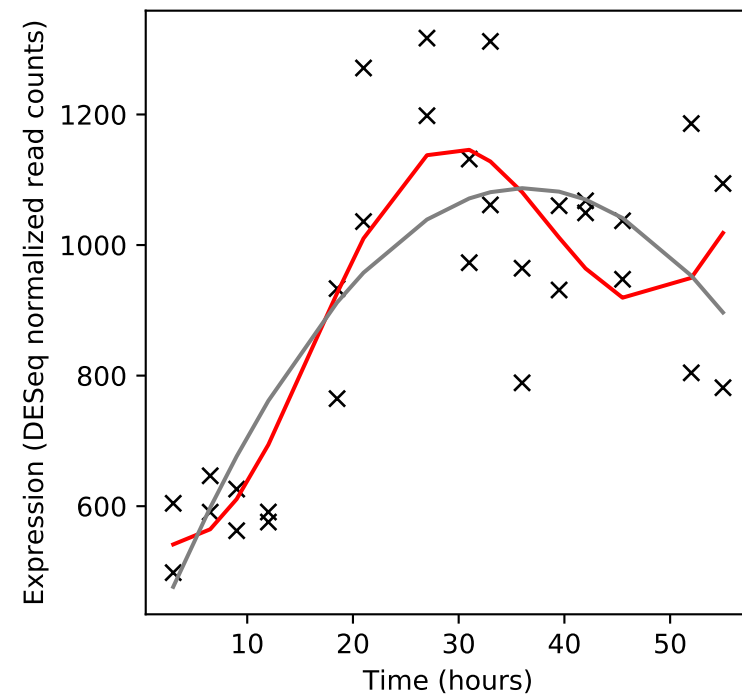
Rv0493c/-



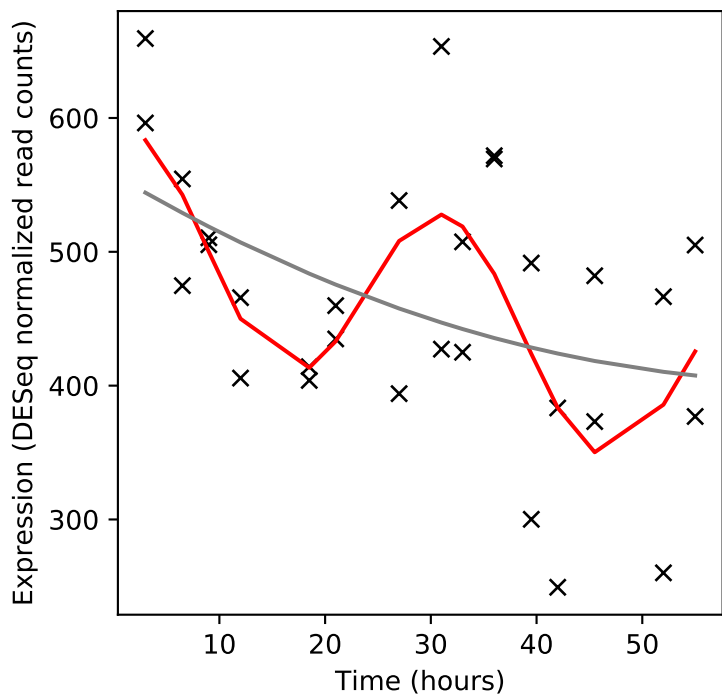
Rv0494/-



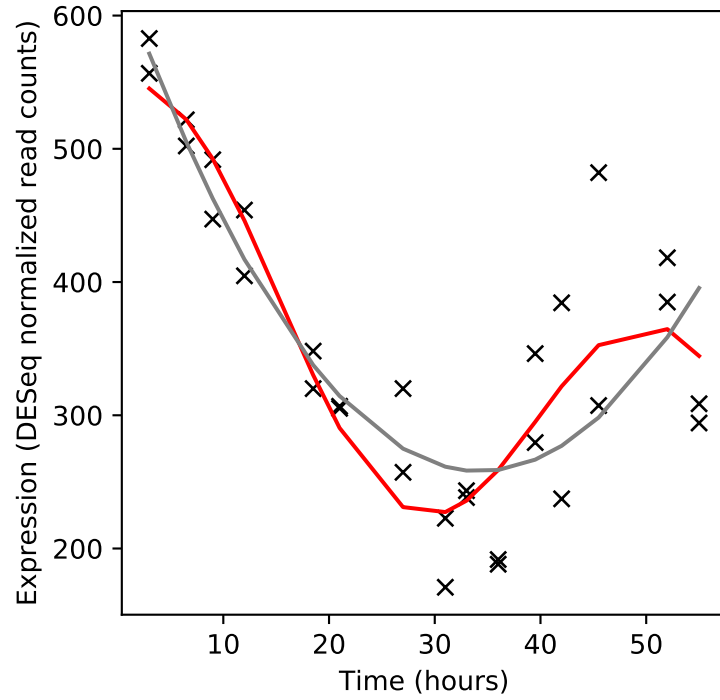
Rv0495c/-



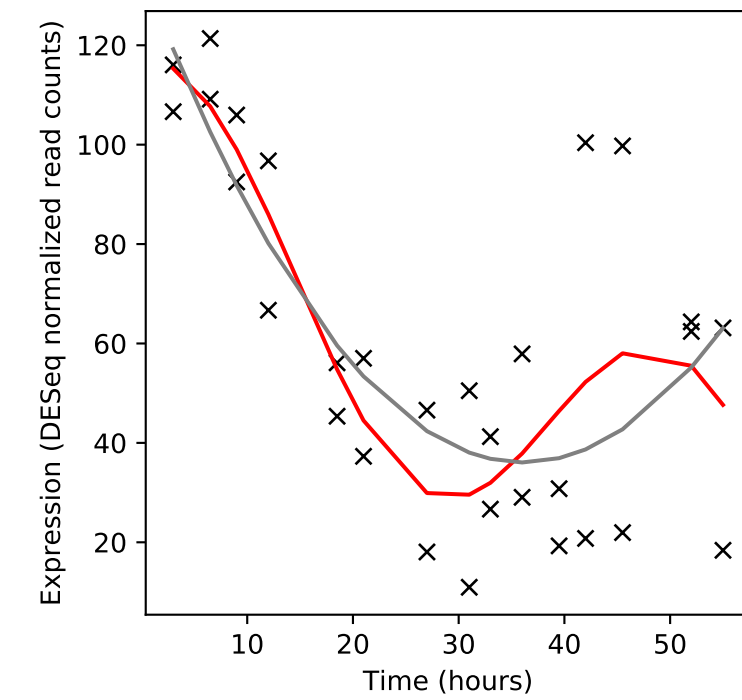
Rv0496/-



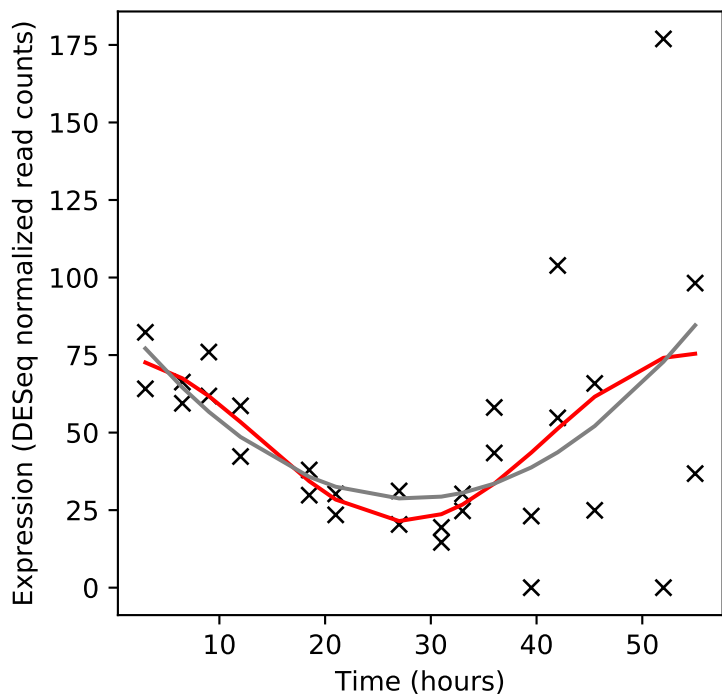
Rv0497/-



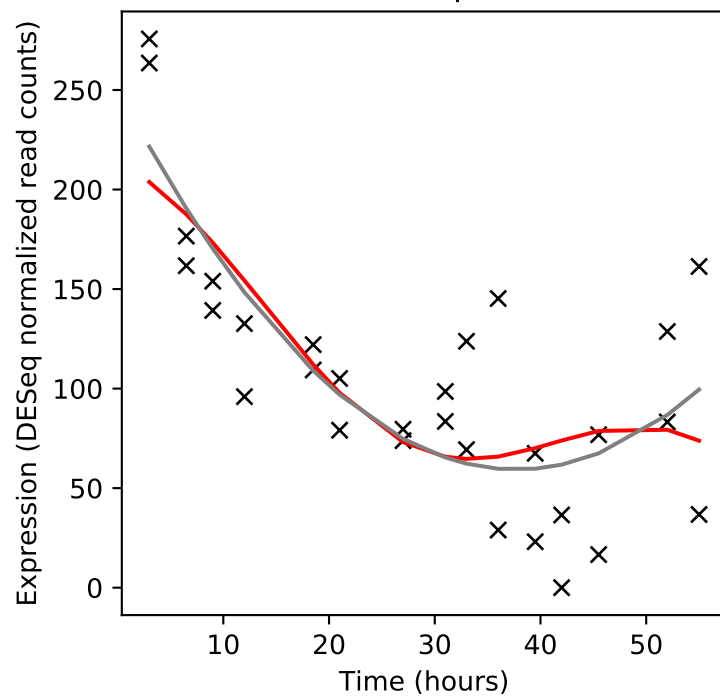
Rv0498/-



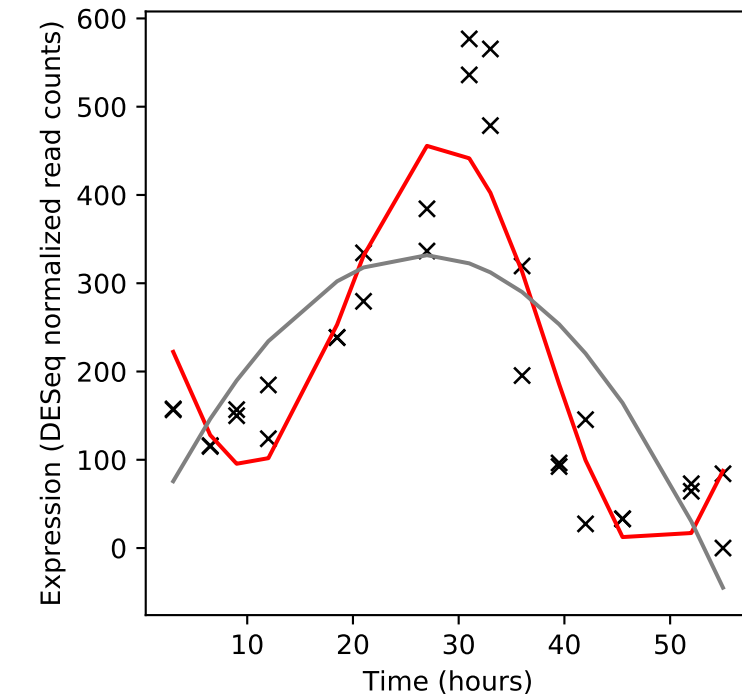
Rv0499/-



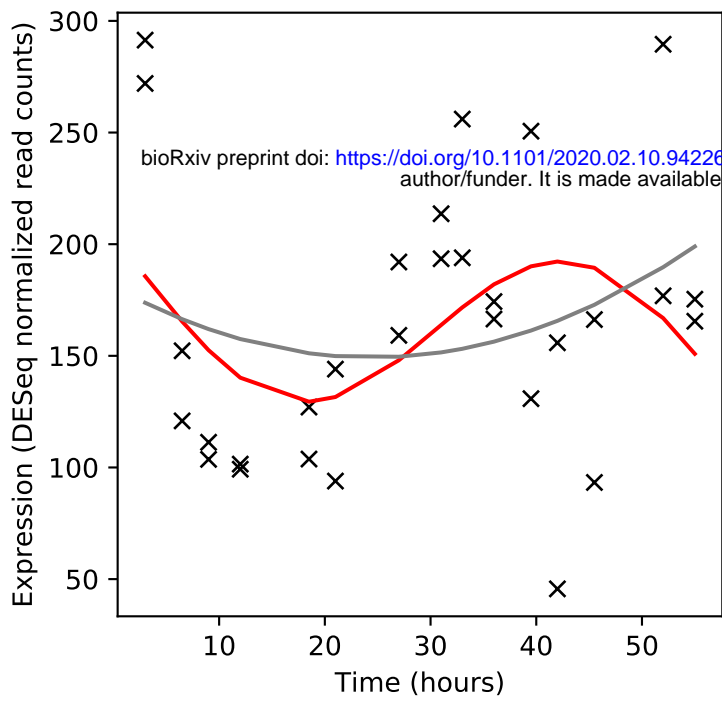
Rv0500/proC



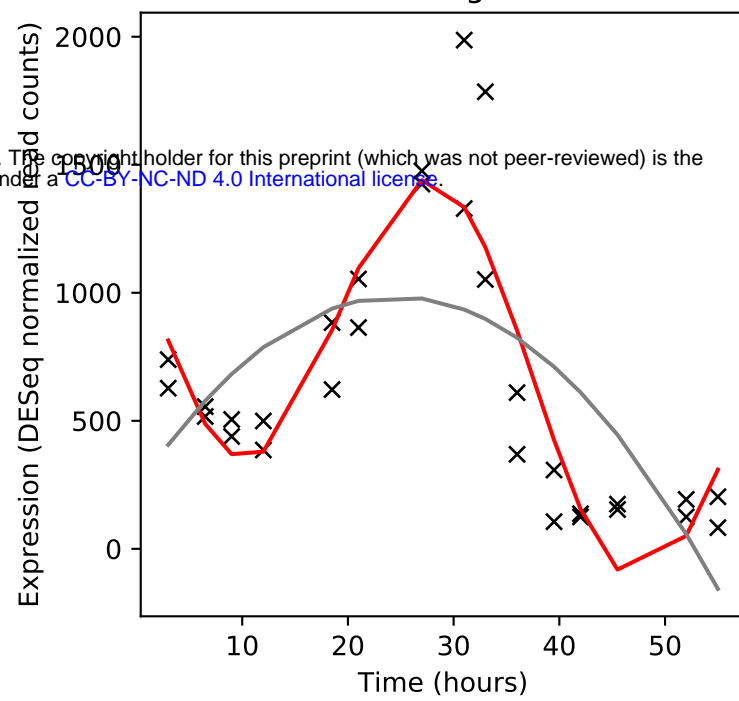
Rv0500A/-



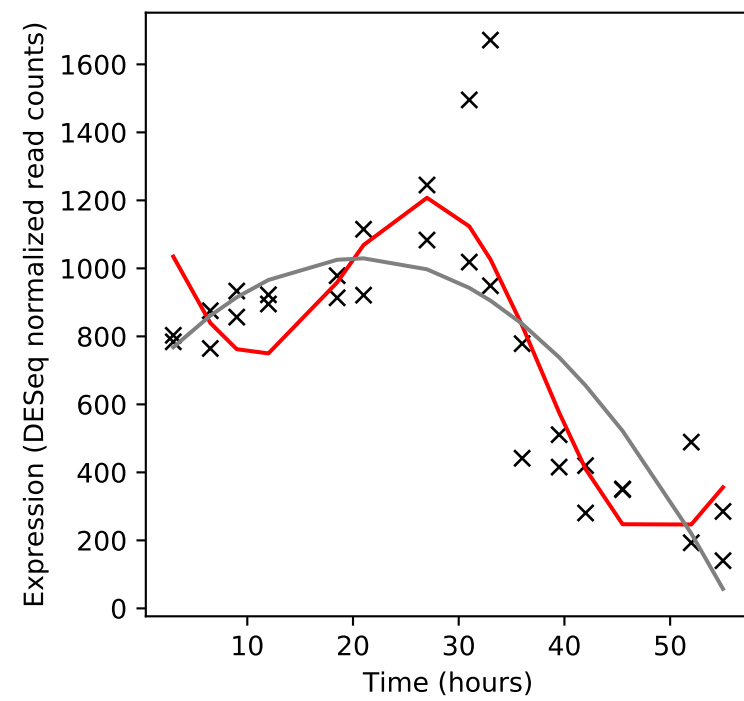
Rv0500B/-



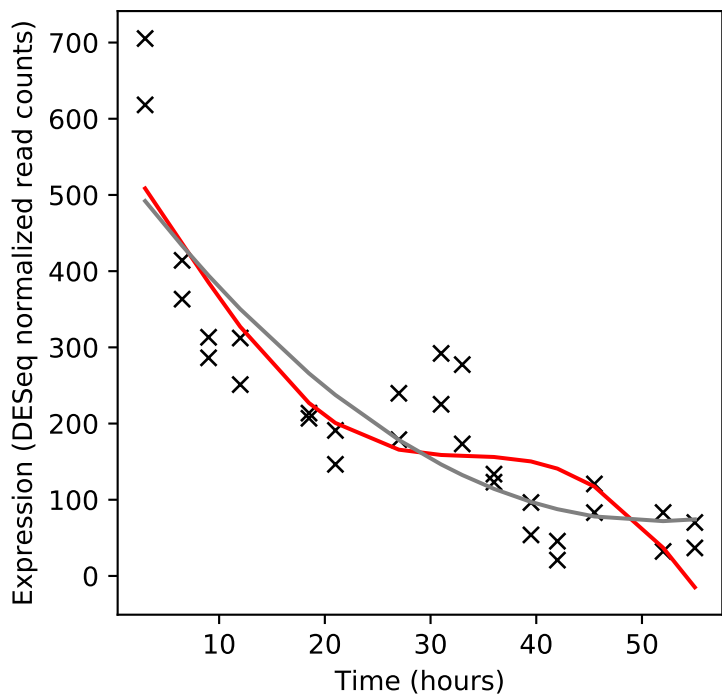
Rv0501/galE2



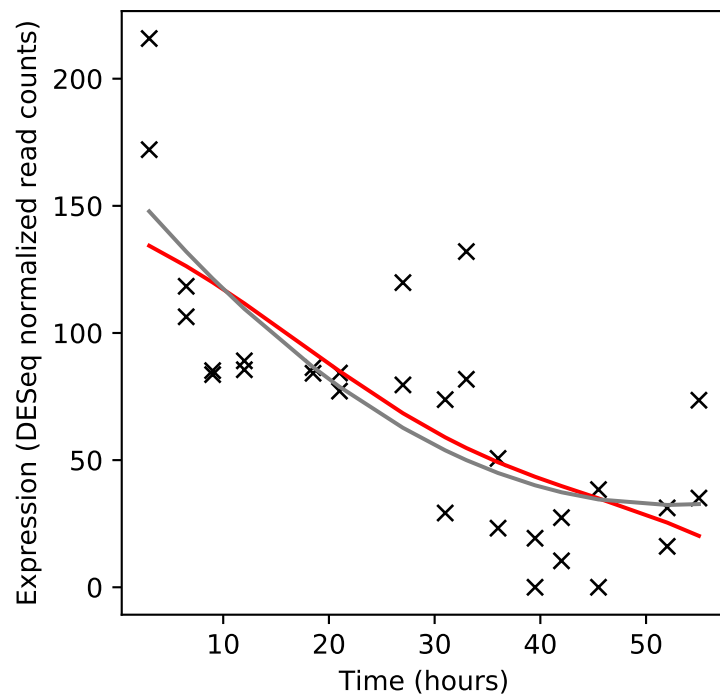
Rv0502/-



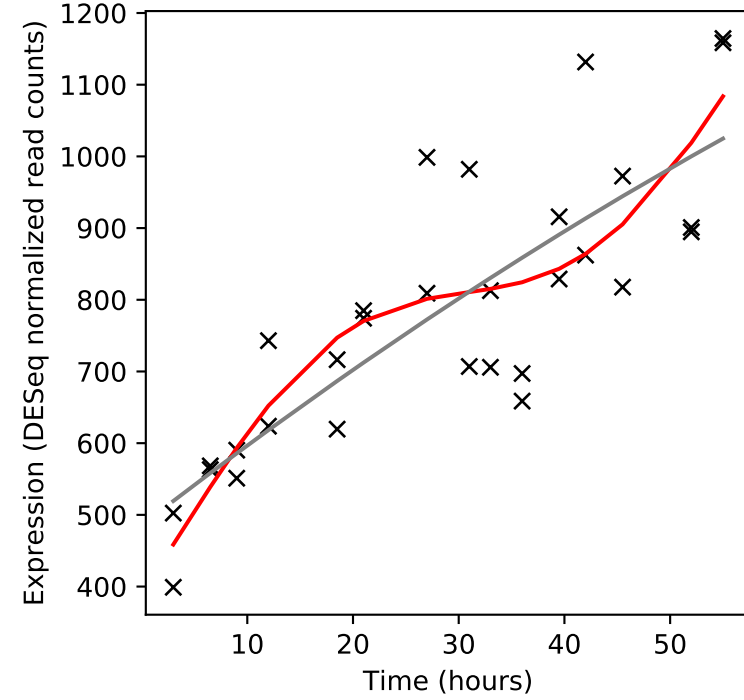
Rv0503c/cmaA2



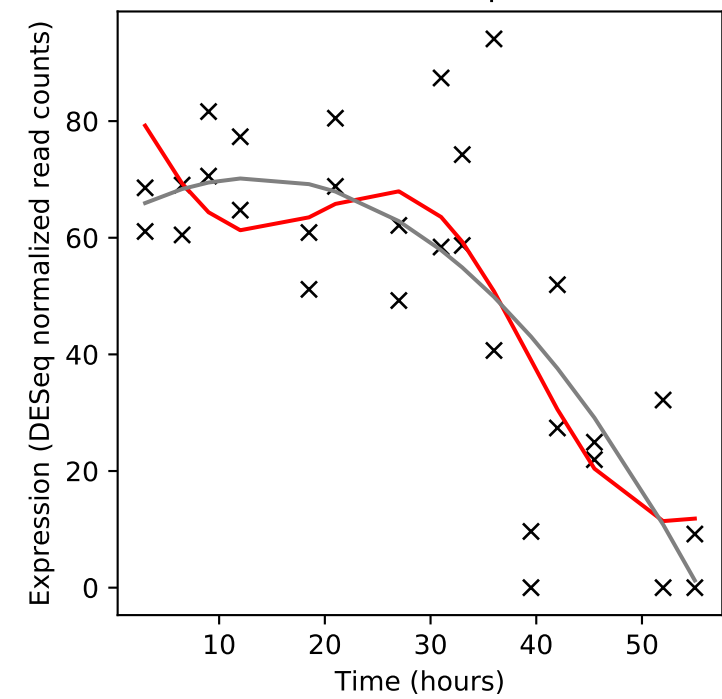
Rv0504c/-



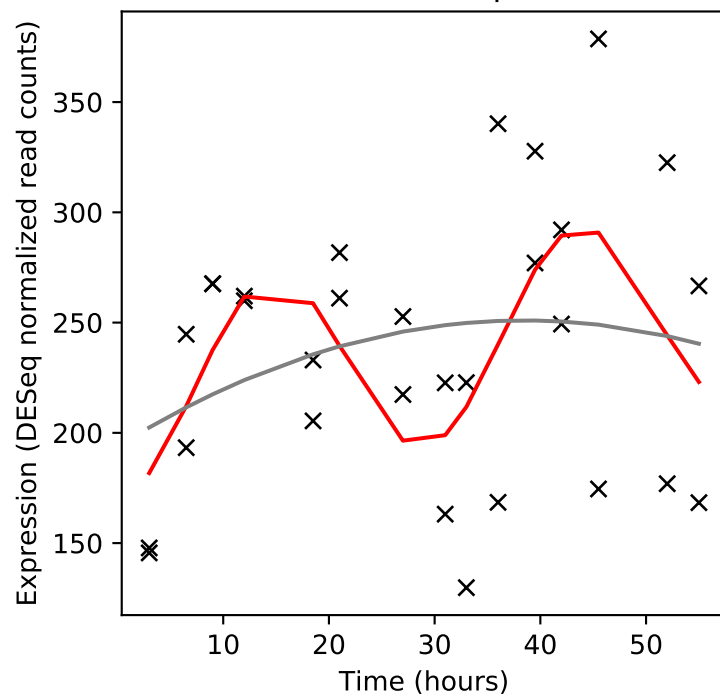
Rv0505c/serB1



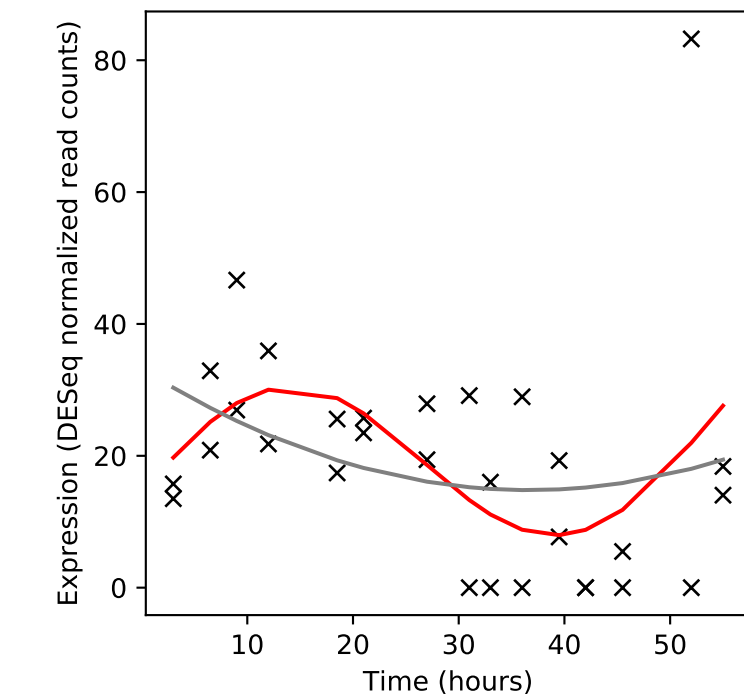
Rv0506/mmpS2



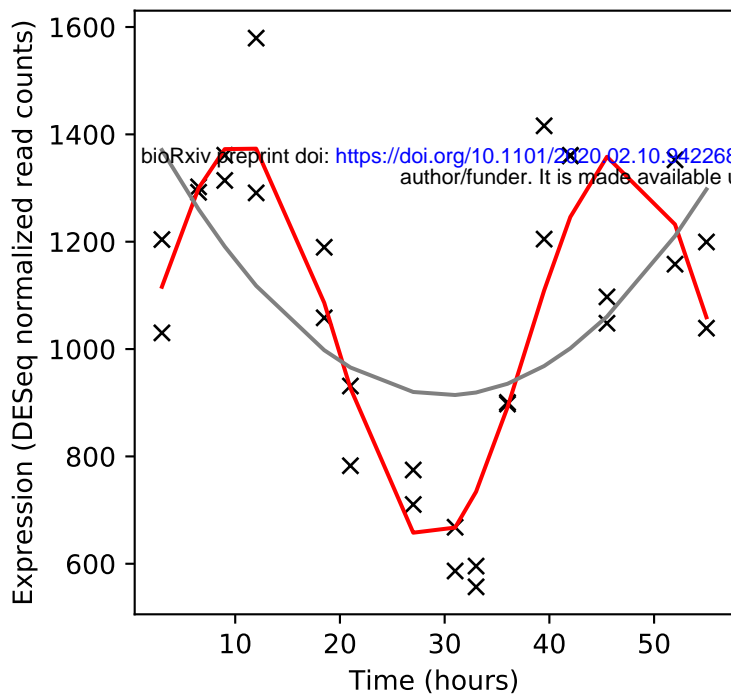
Rv0507/mmpL2



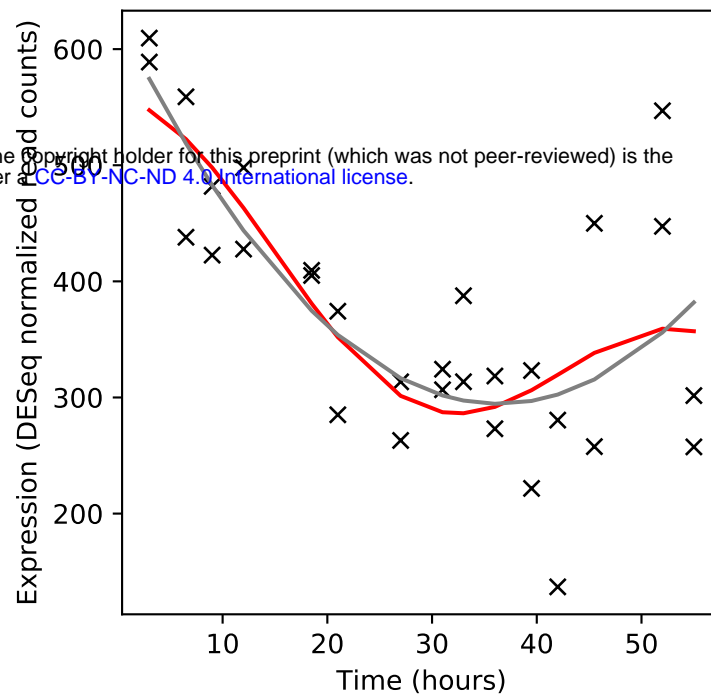
Rv0508/-



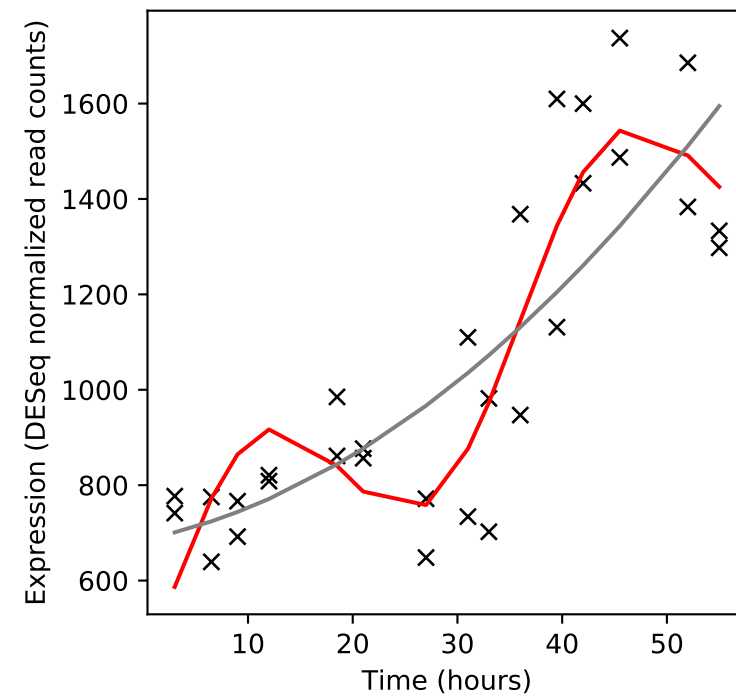
Rv0509/hemA



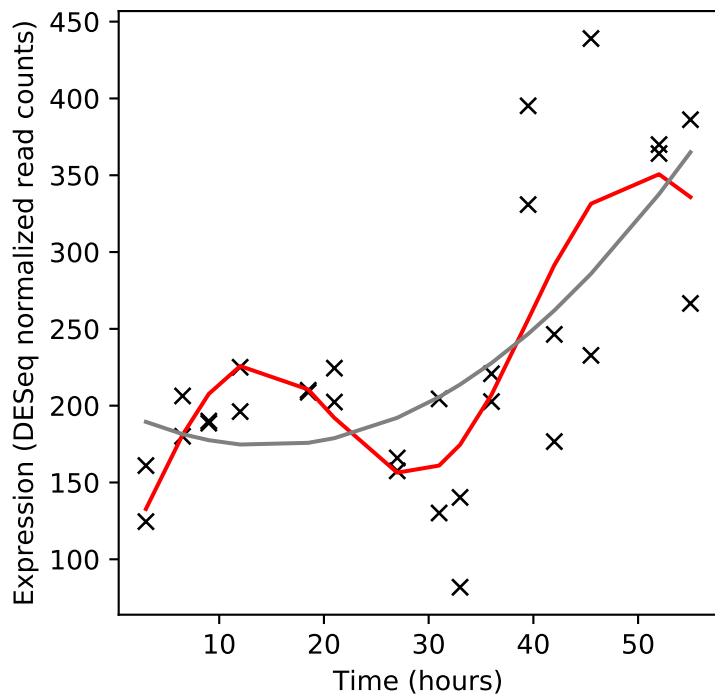
Rv0510/hemC



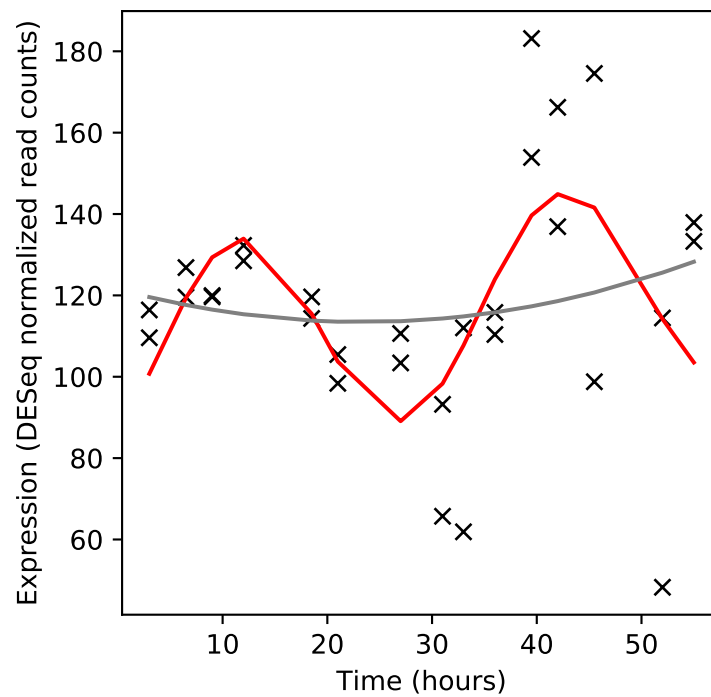
Rv0511/hemD



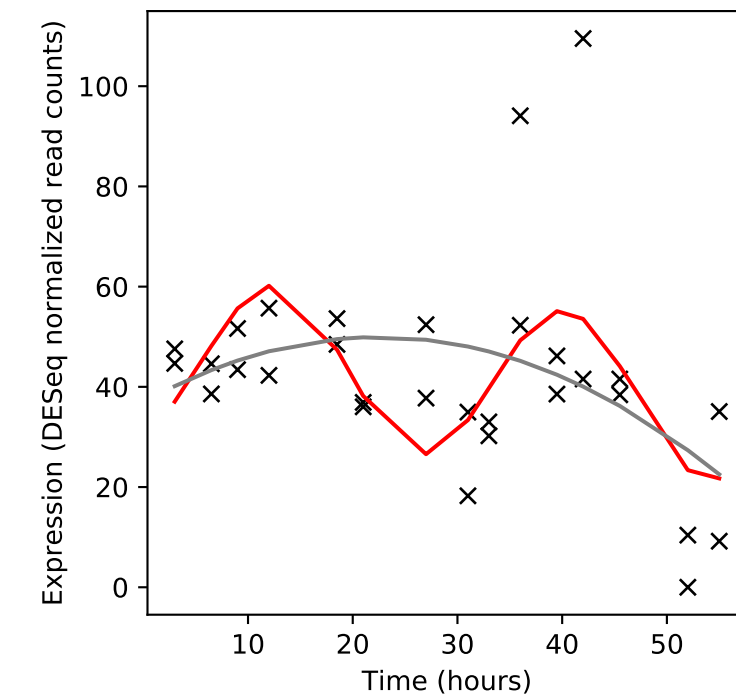
Rv0512/hemB



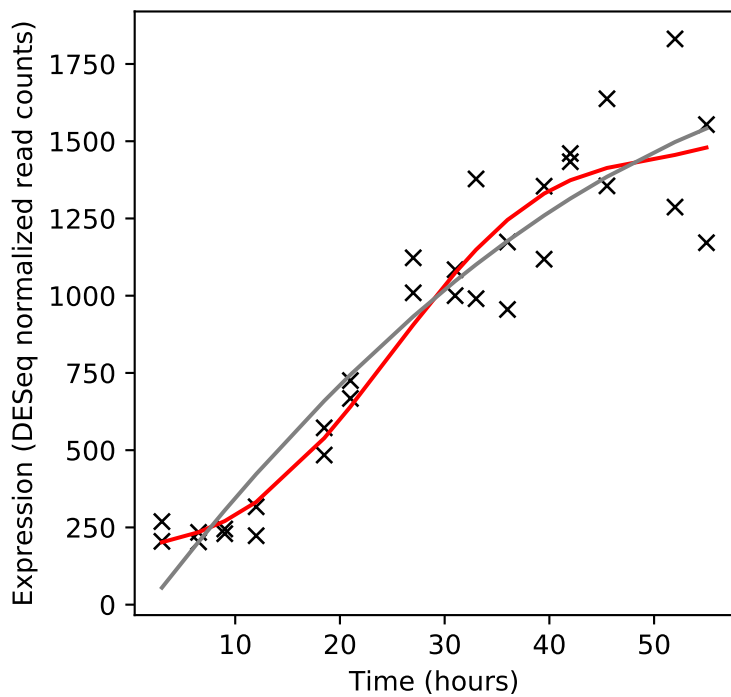
Rv0513/-



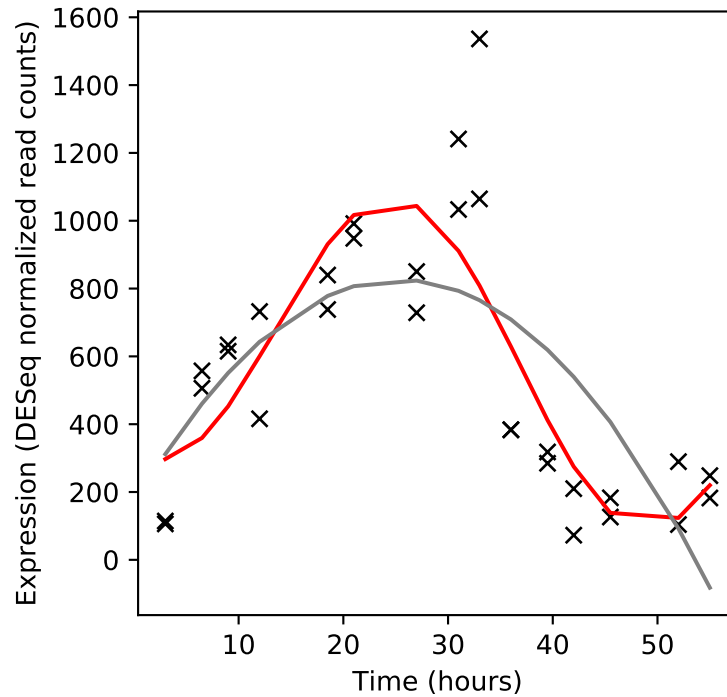
Rv0514/-



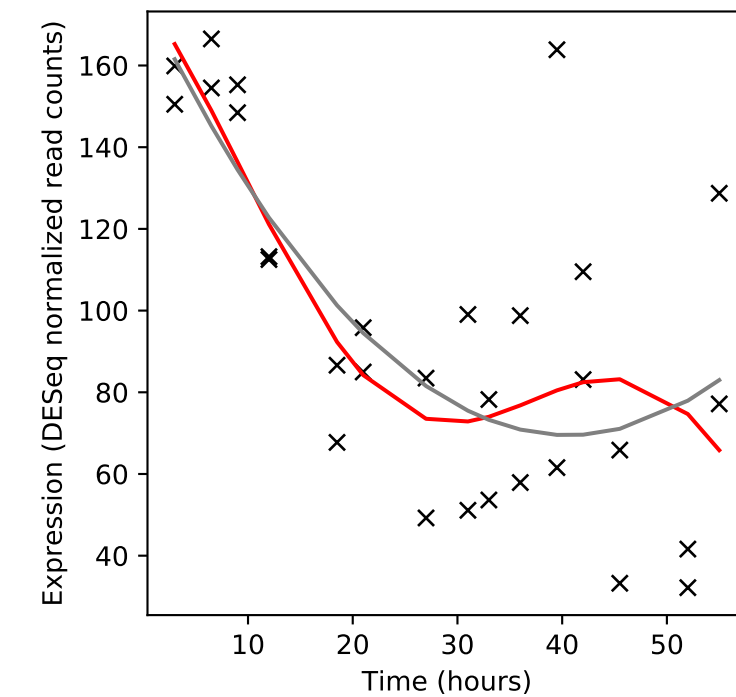
Rv0515/-



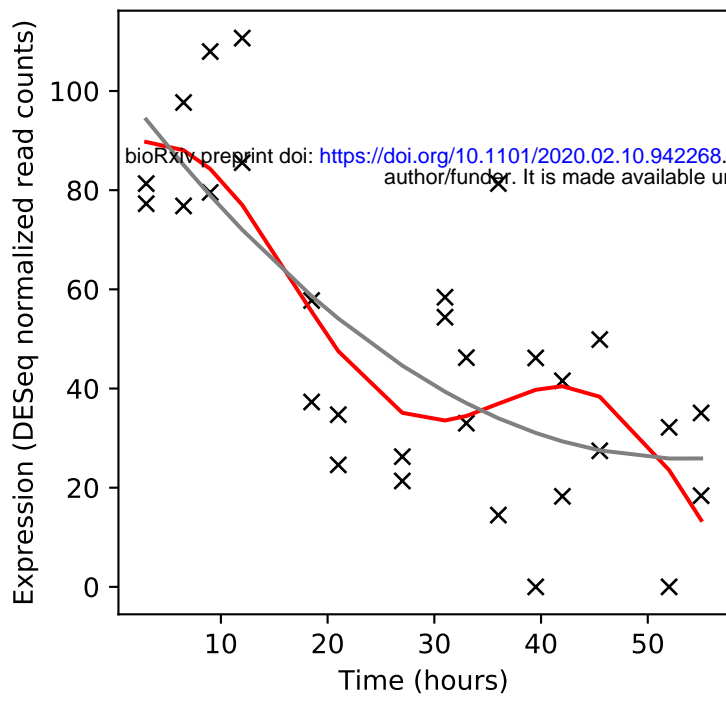
Rv0516c/-



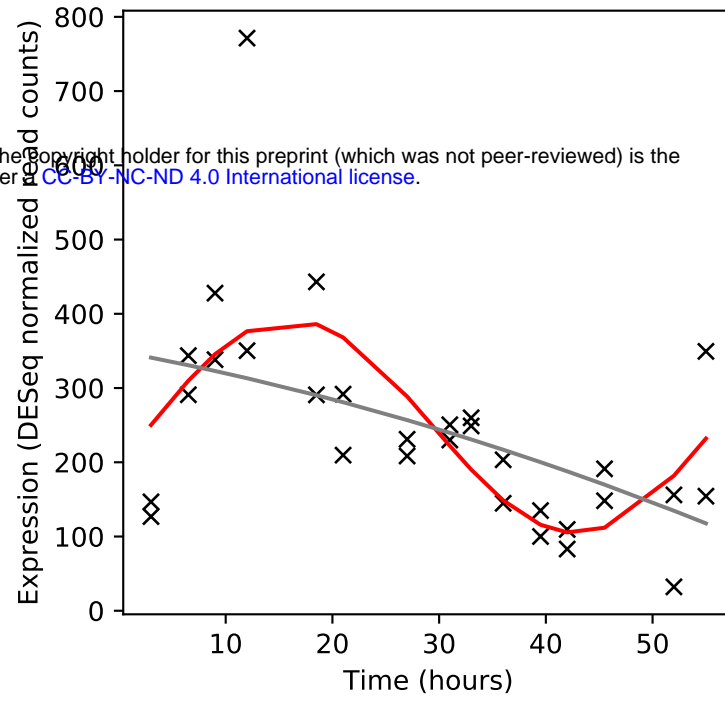
Rv0517/-



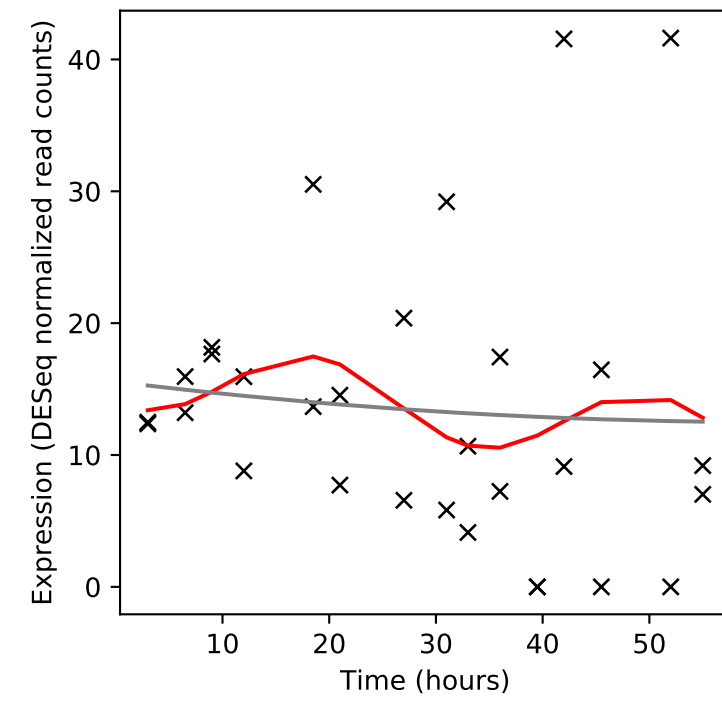
Rv0518/-



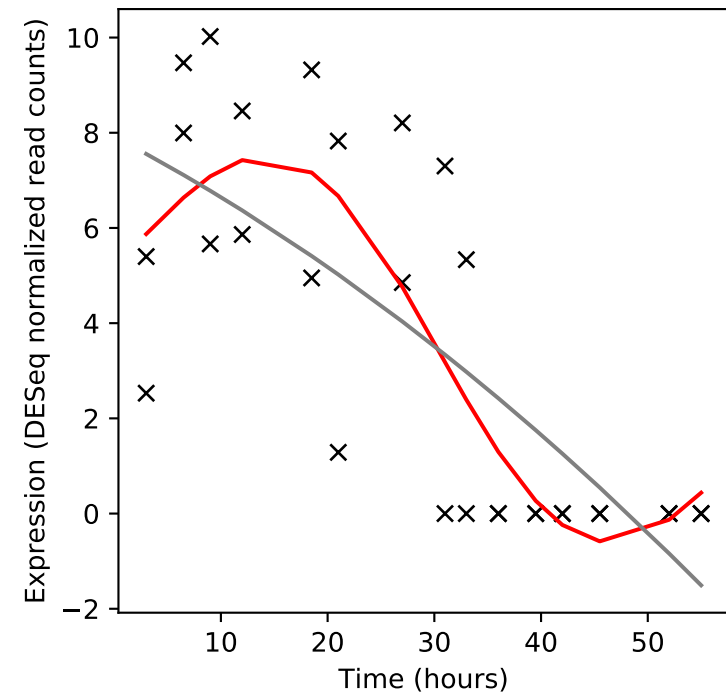
Rv0519c/-



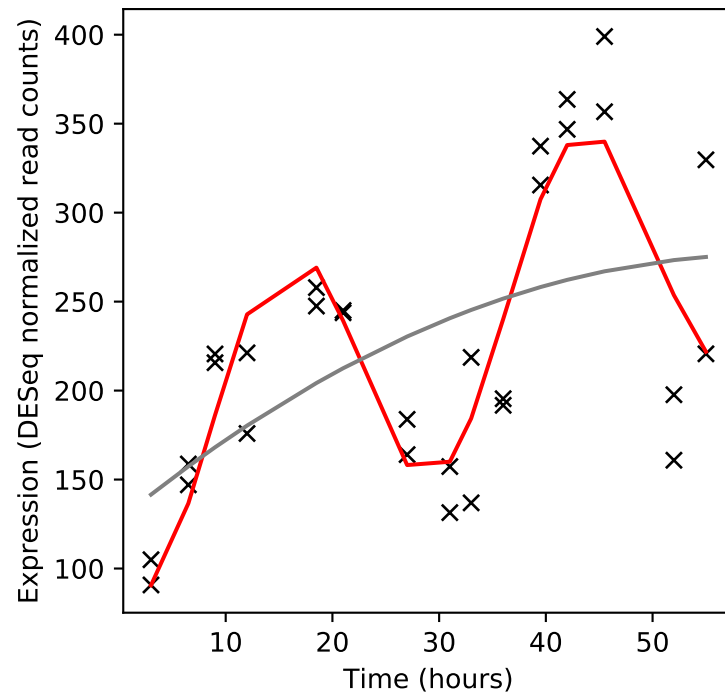
Rv0520/-



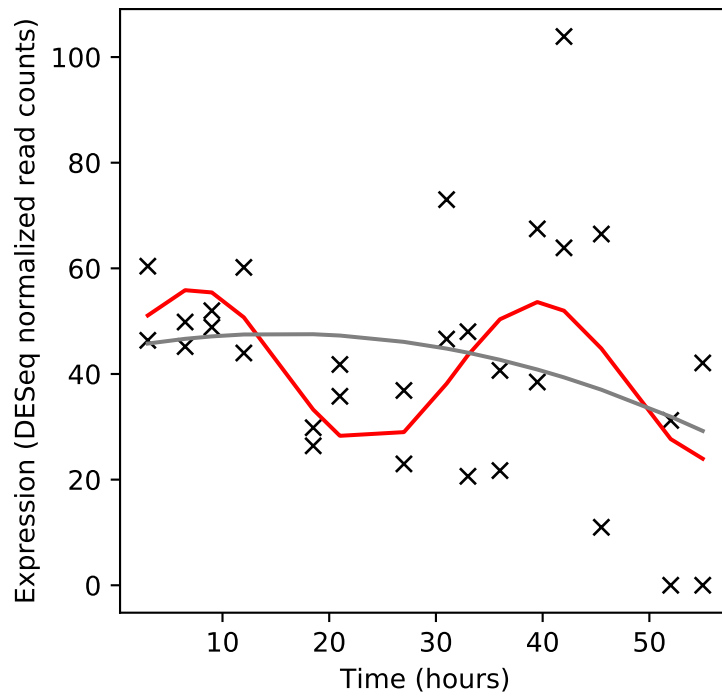
Rv0521/-



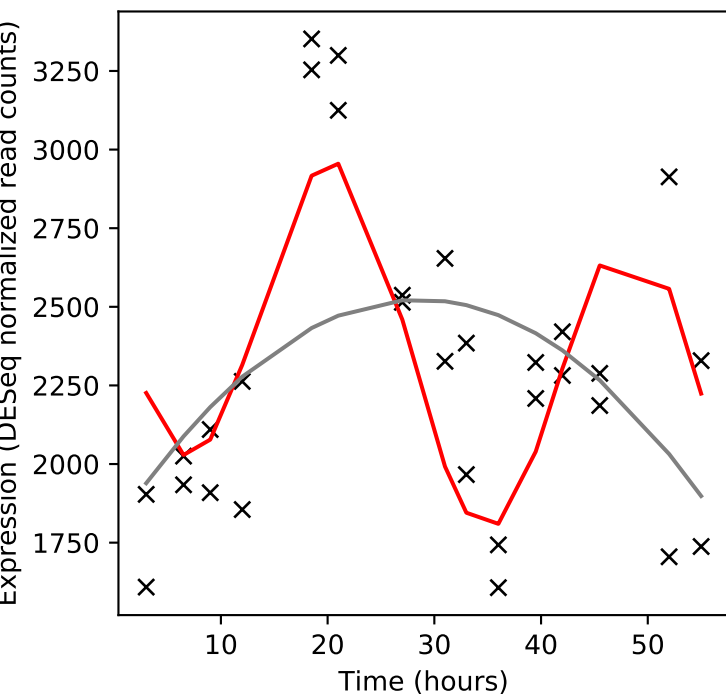
Rv0522/gabP



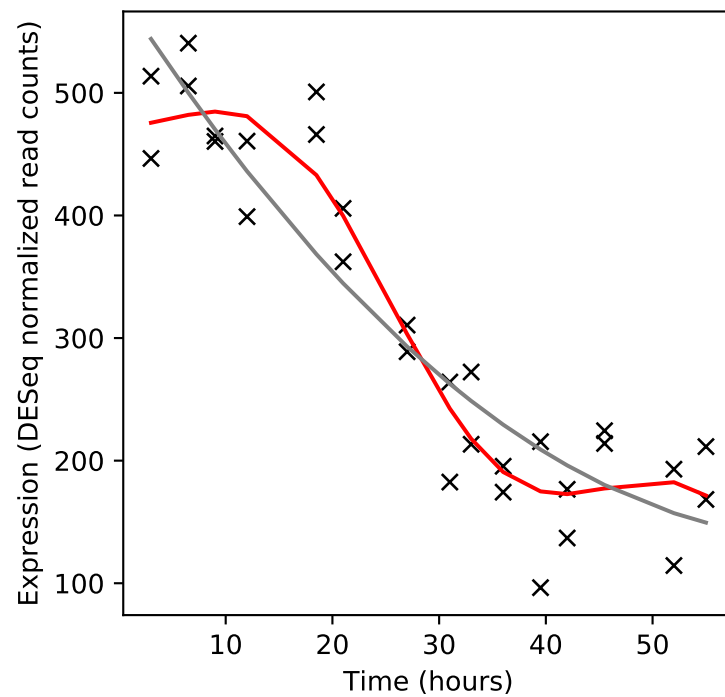
Rv0523c/-



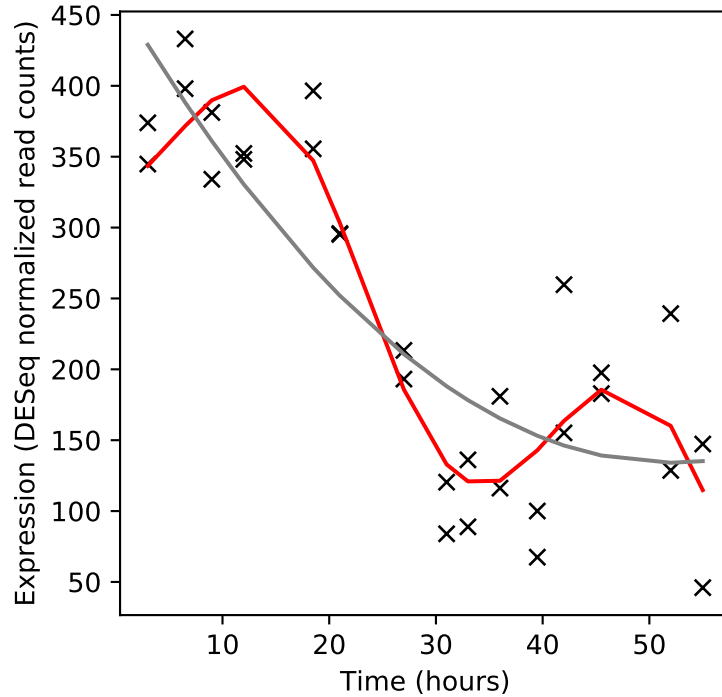
Rv0524/hemL



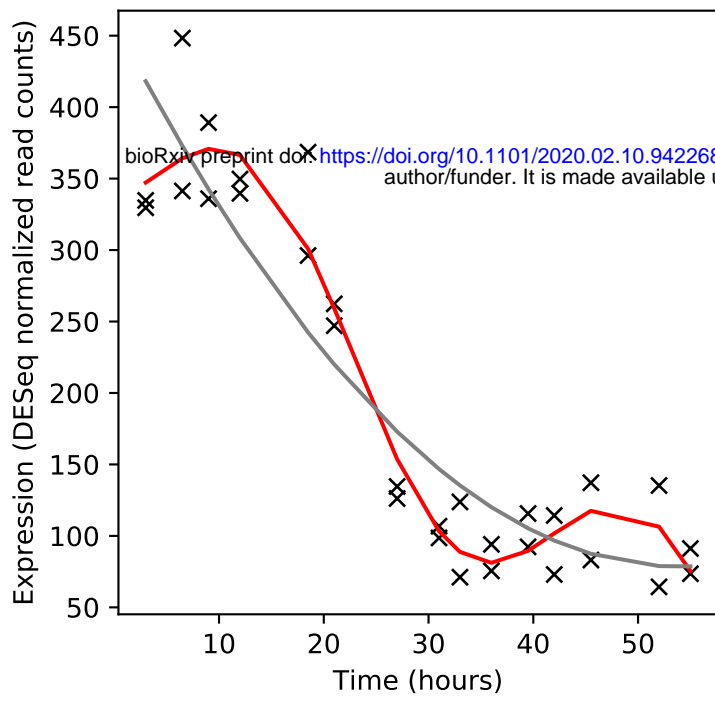
Rv0525/-



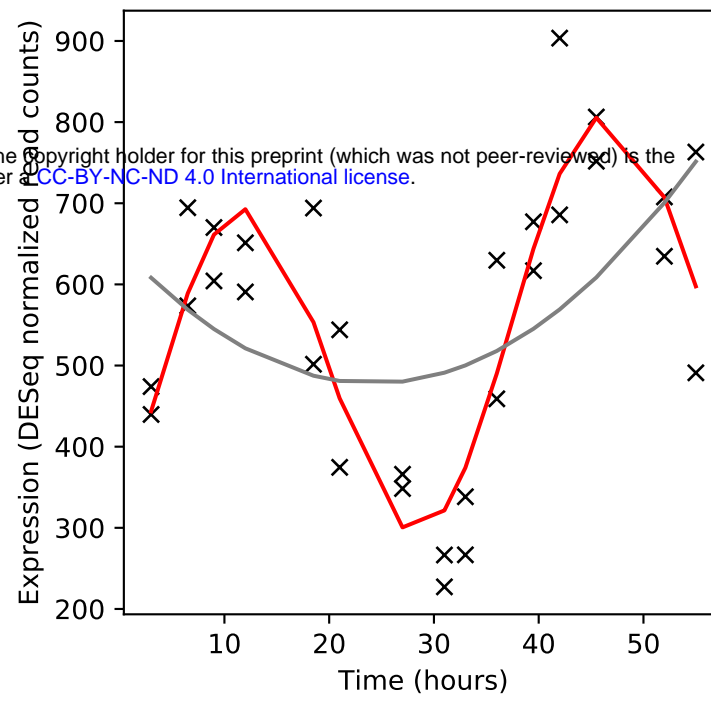
Rv0526/-



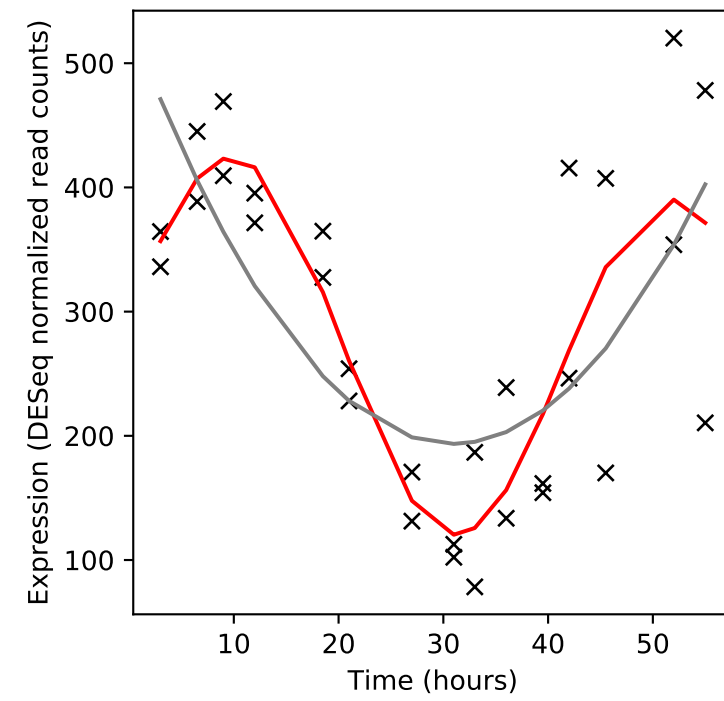
Rv0527/ccdA



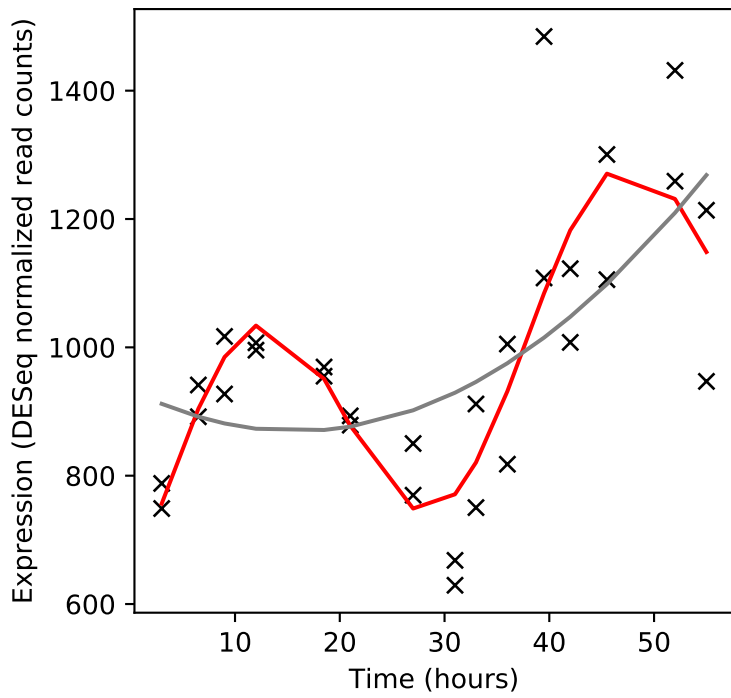
Rv0528/-



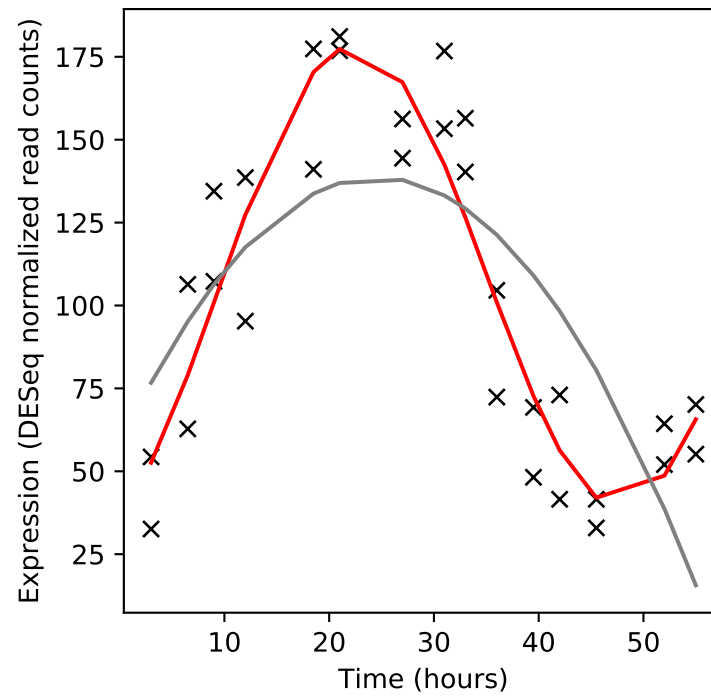
Rv0529/ccsA



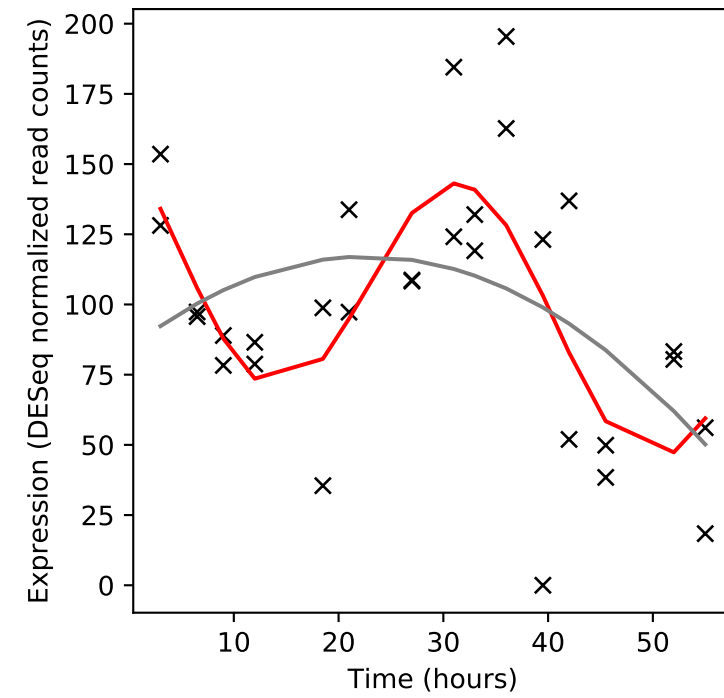
Rv0530/-



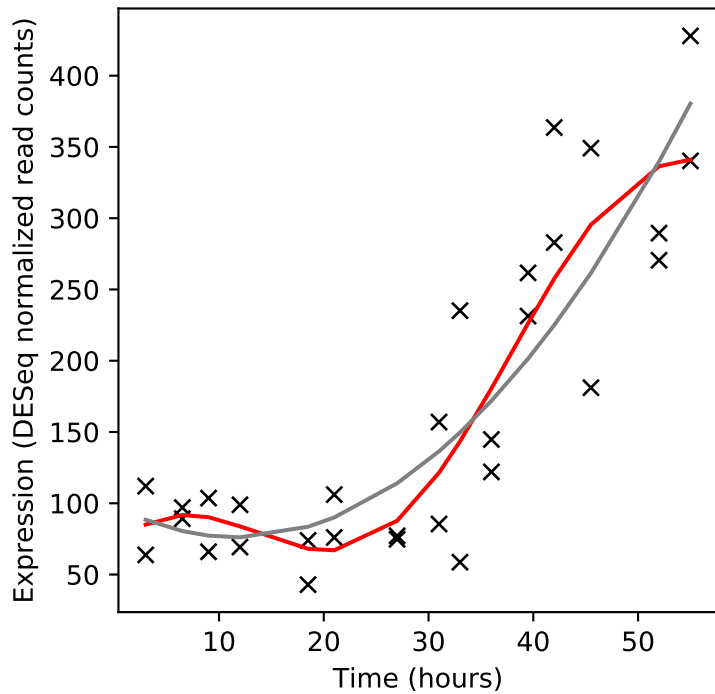
Rv0530A/-



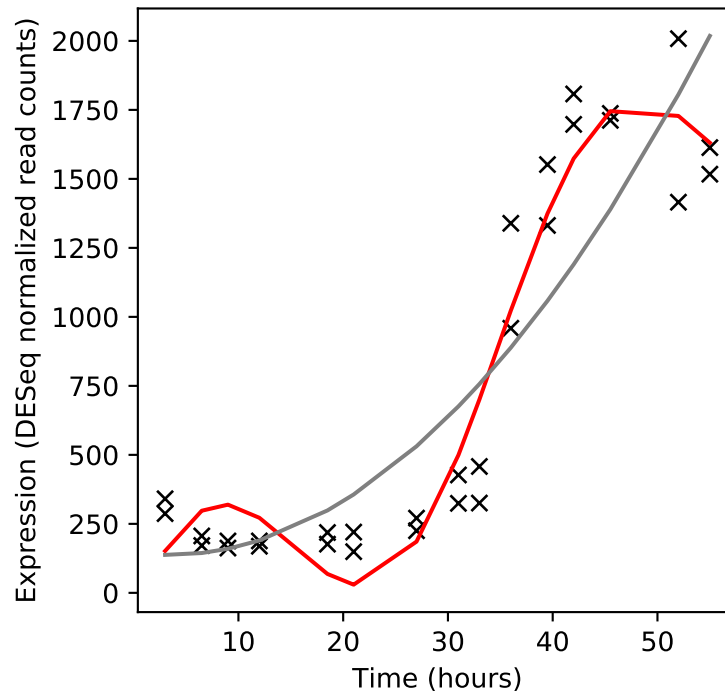
Rv0531/-



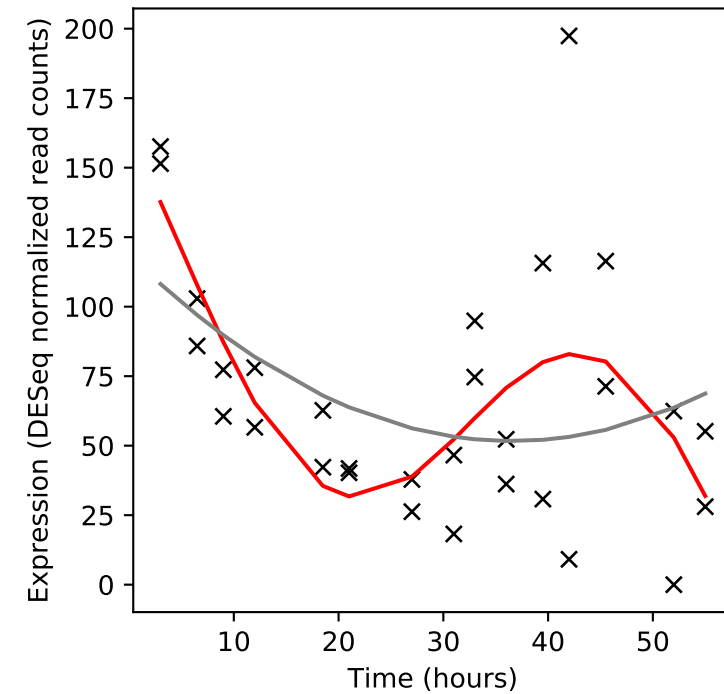
Rv0532/PE_PGRS6



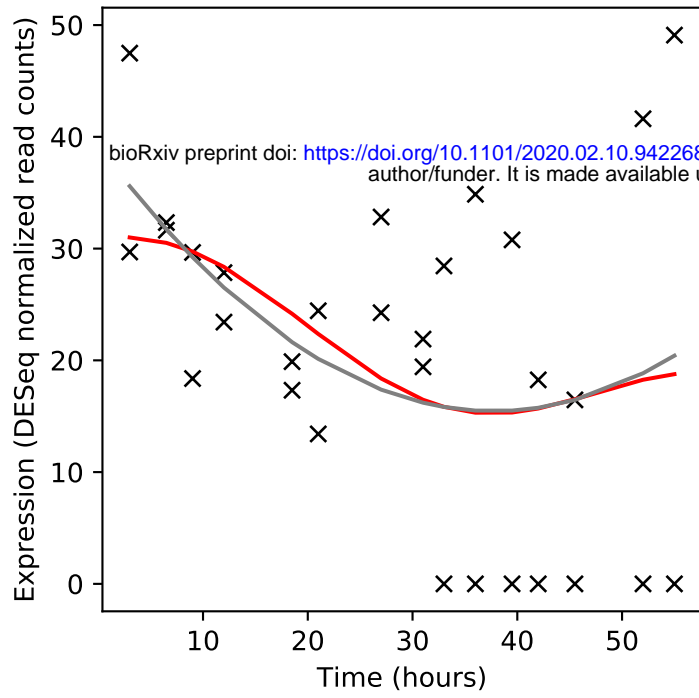
Rv0533c/fabH



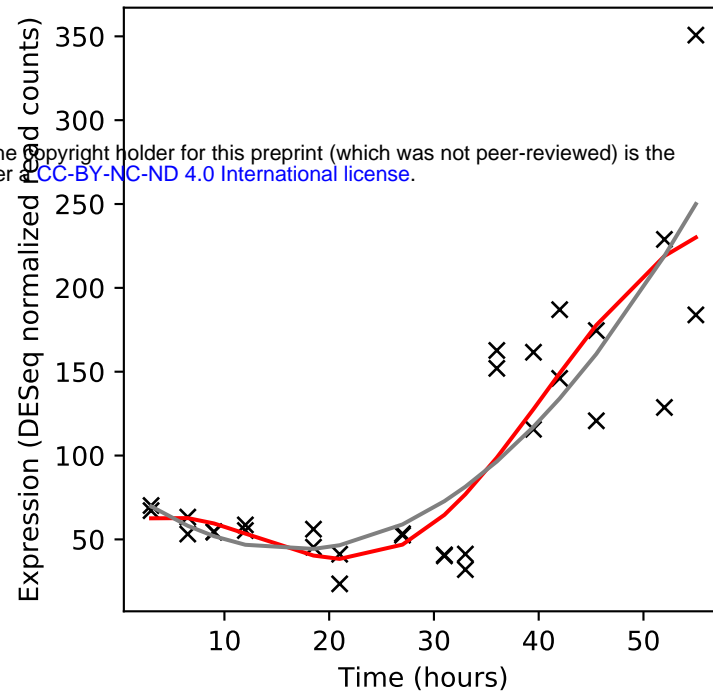
Rv0534c/menA



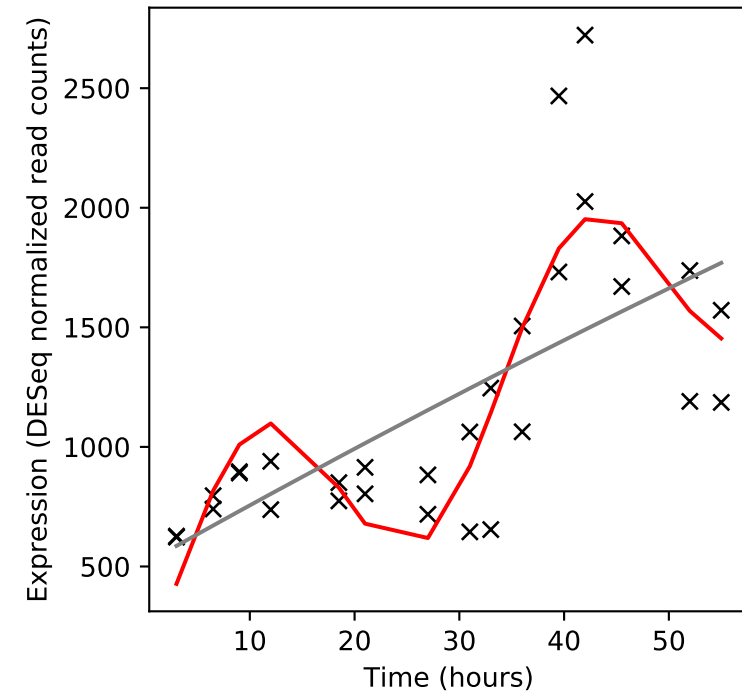
Rv0535/pnp



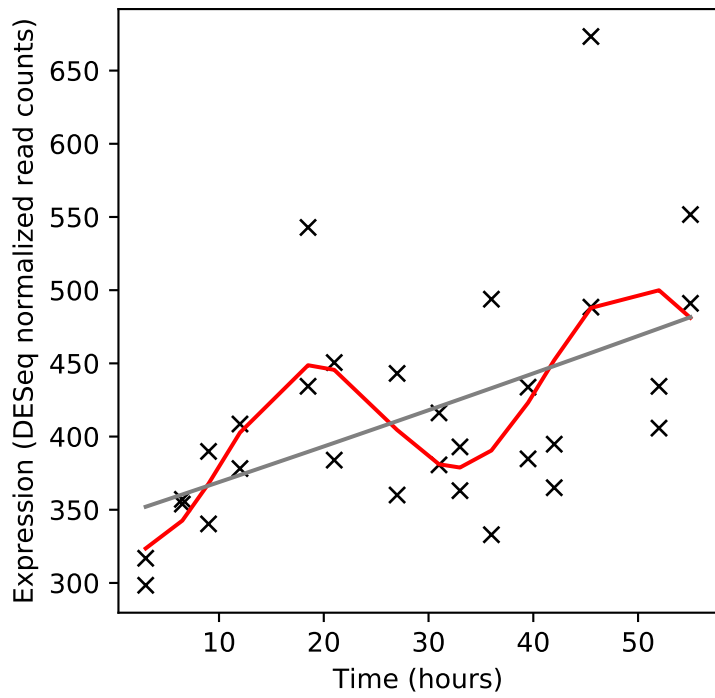
Rv0536/galE3



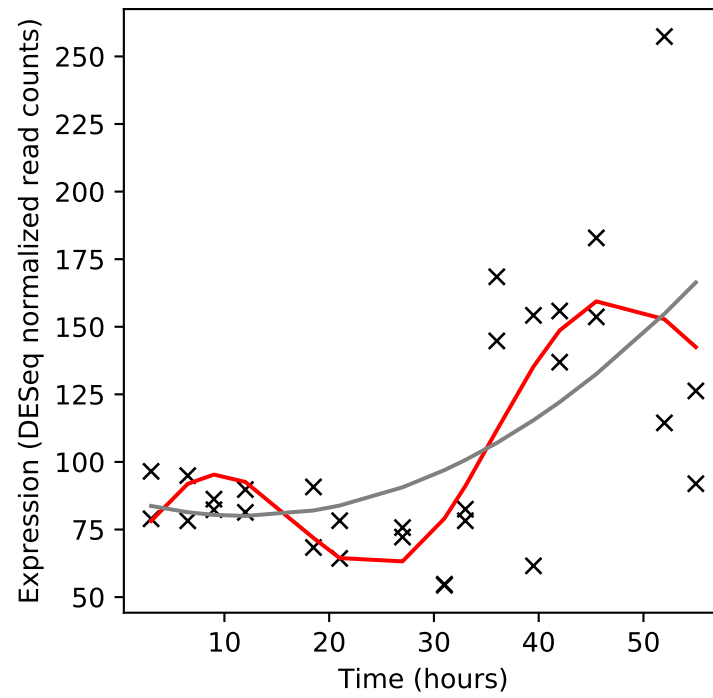
Rv0537c/-



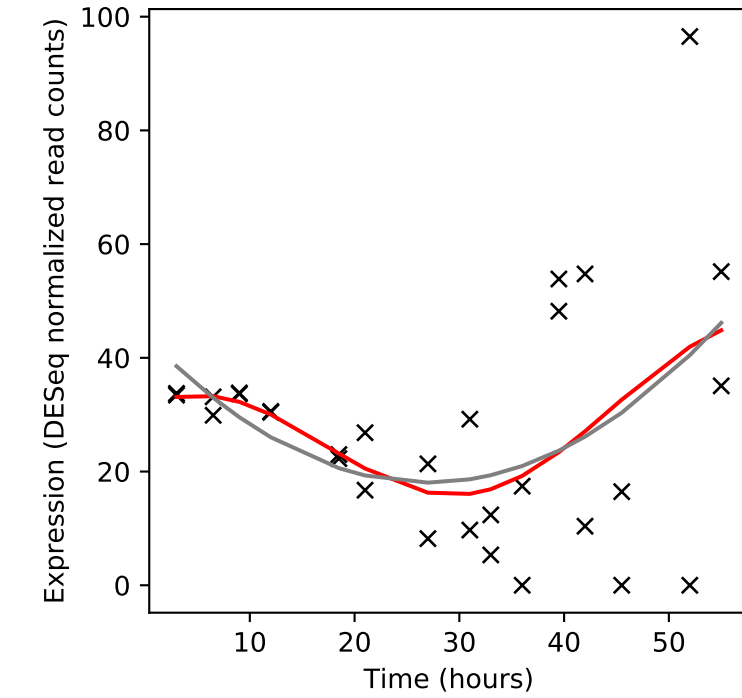
Rv0538/-



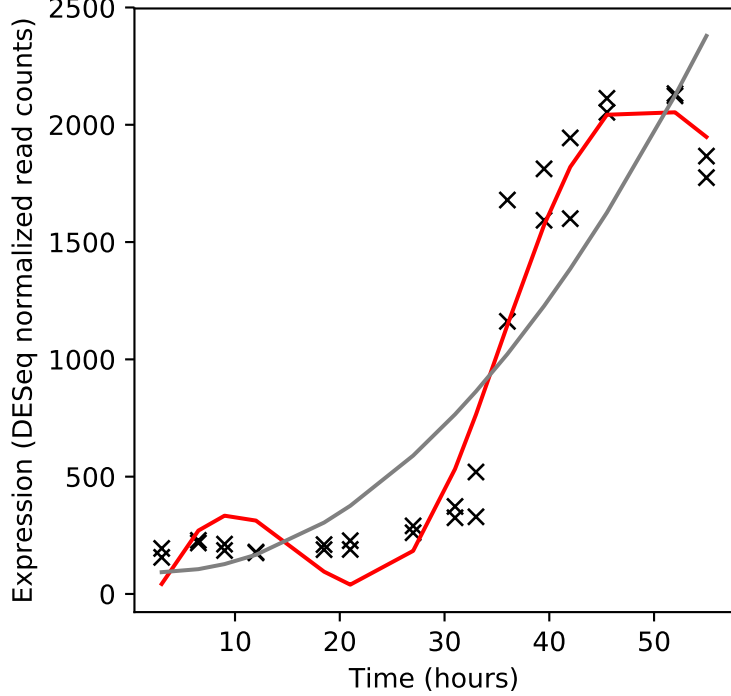
Rv0539/-



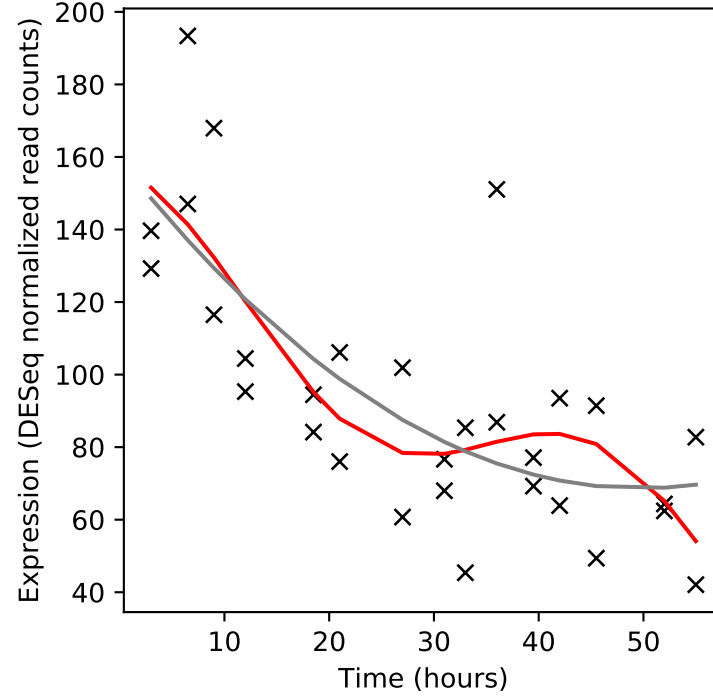
Rv0540/-



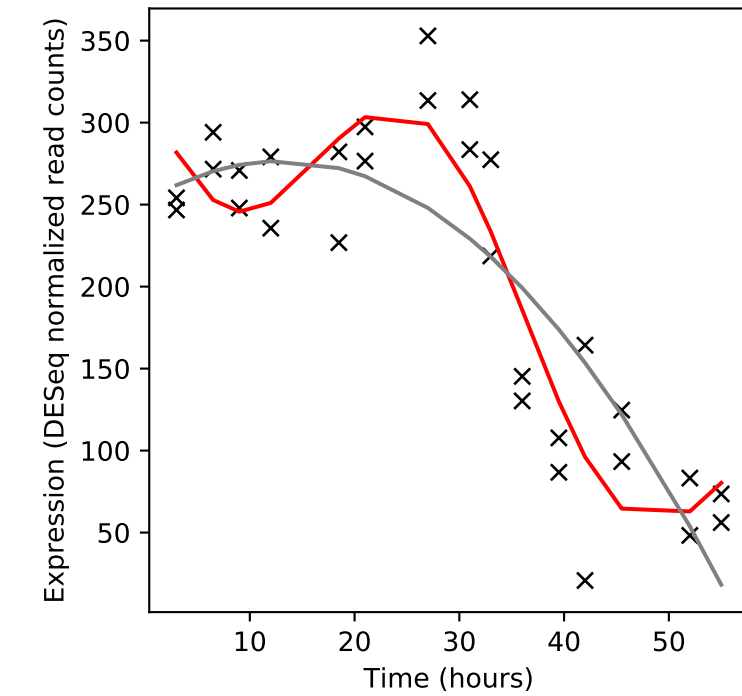
Rv0541c/-



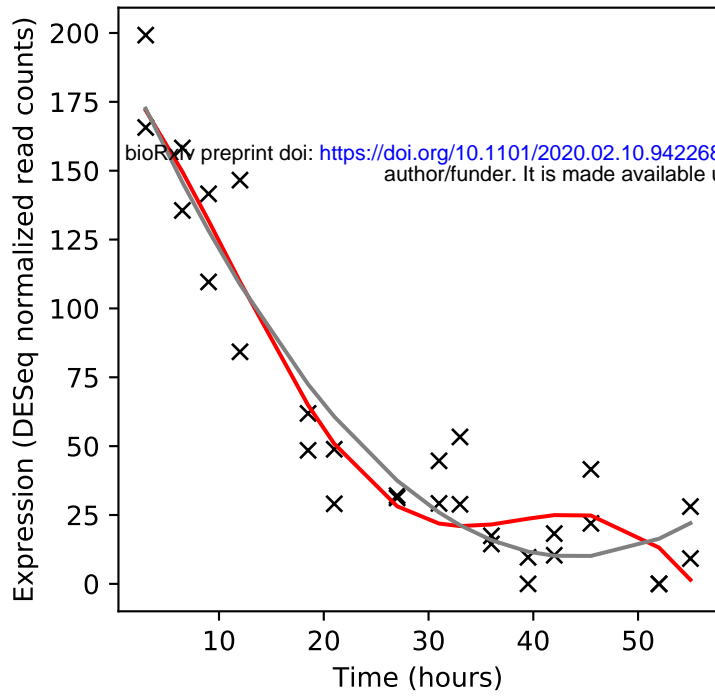
Rv0542c/menE



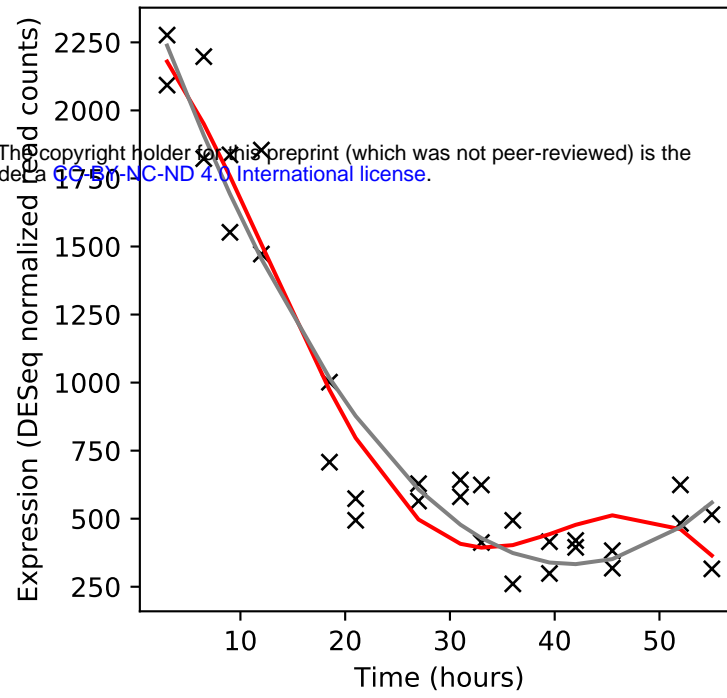
Rv0543c/-



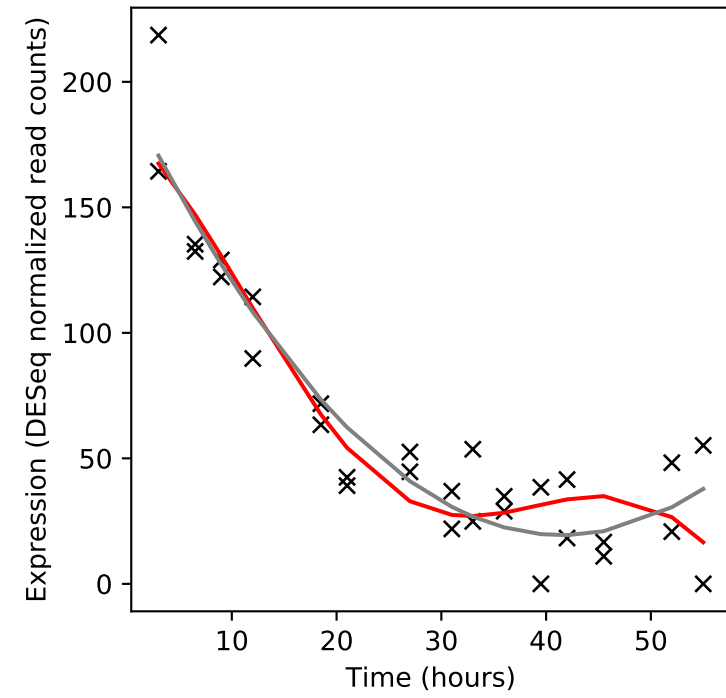
Rv0544c/-



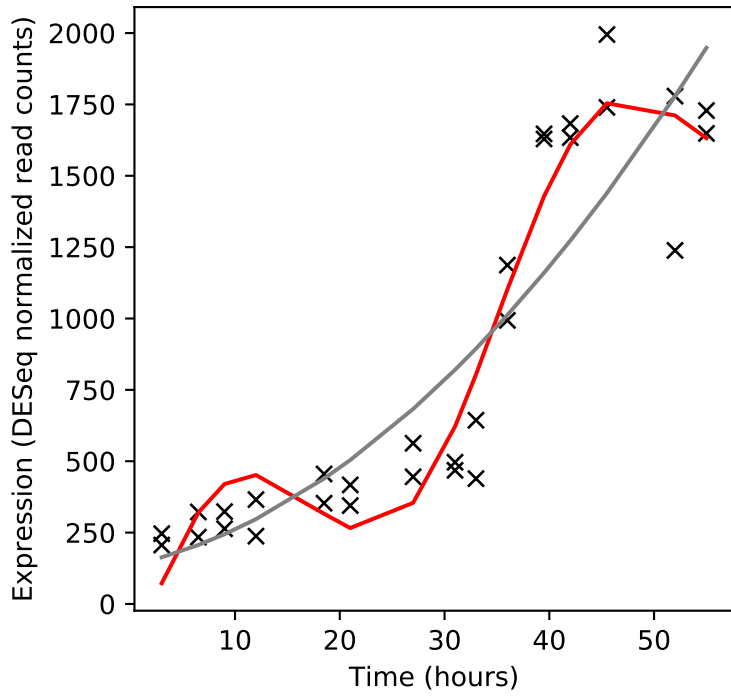
Rv0545c/pitA



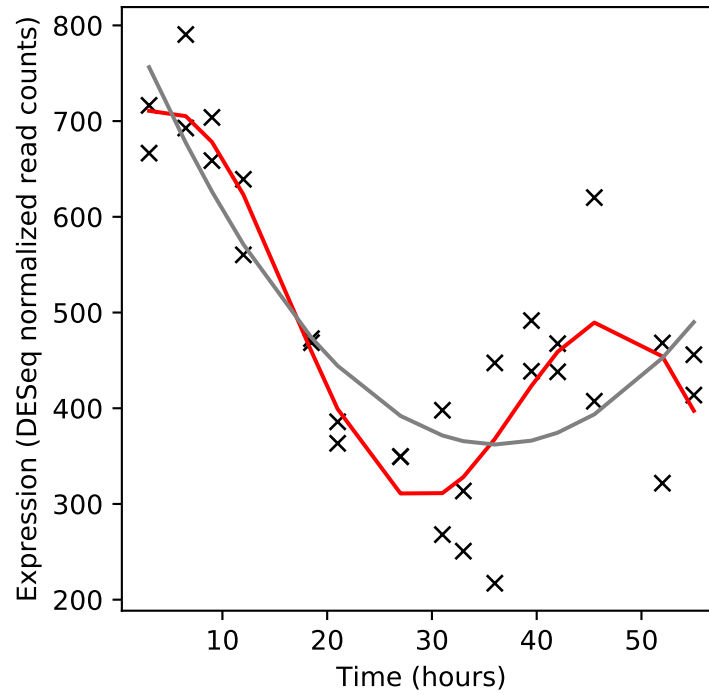
Rv0546c/-



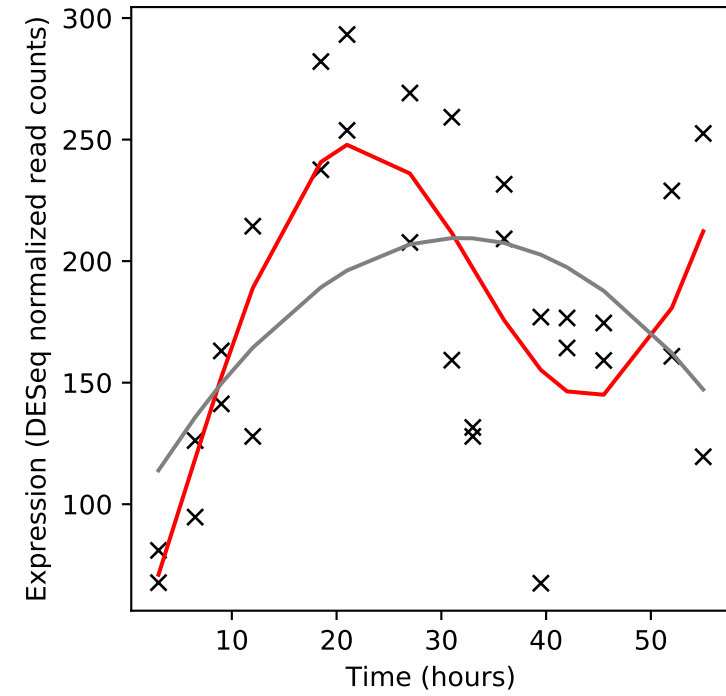
Rv0547c/-



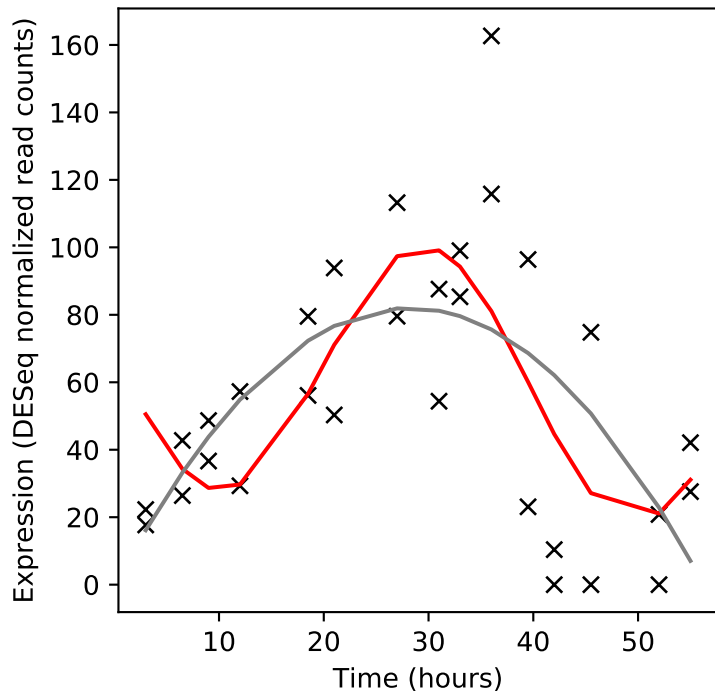
Rv0548c/menB



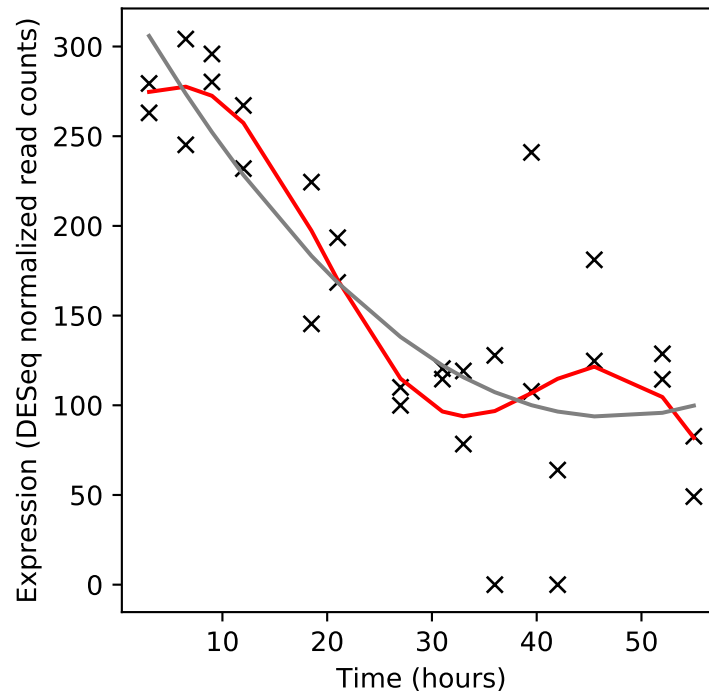
Rv0549c/vapC3



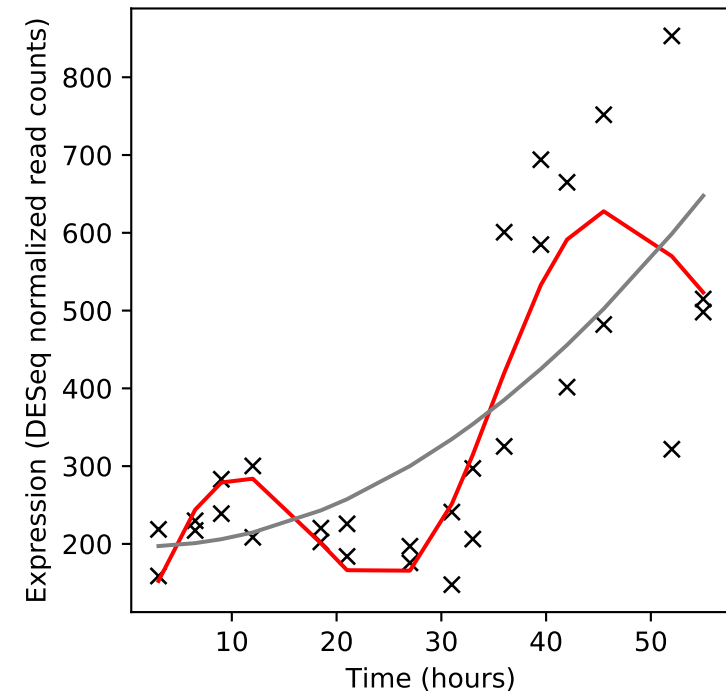
Rv0550c/vapB3



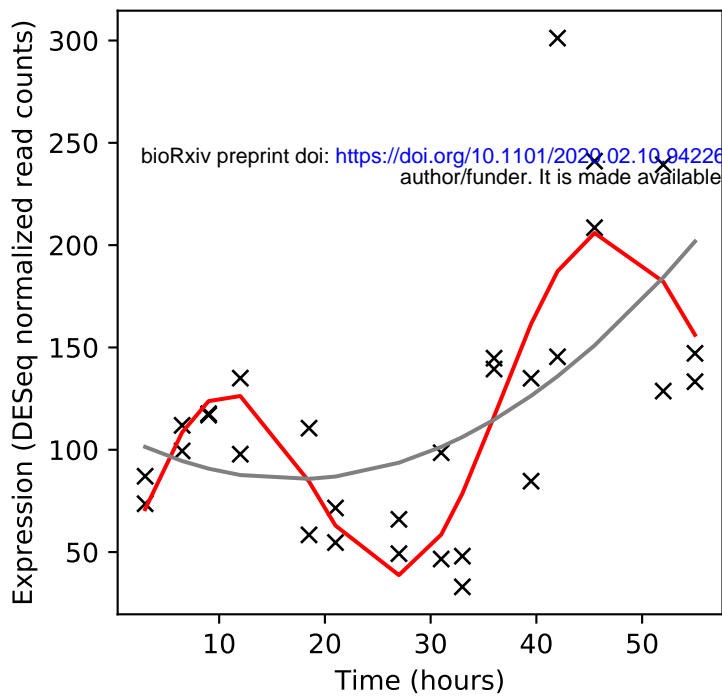
Rv0551c/fadD8



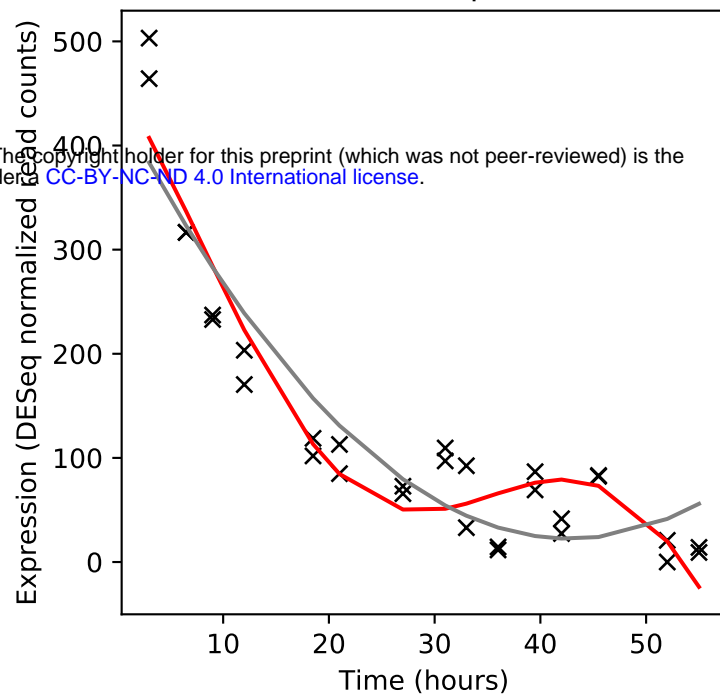
Rv0552c/-



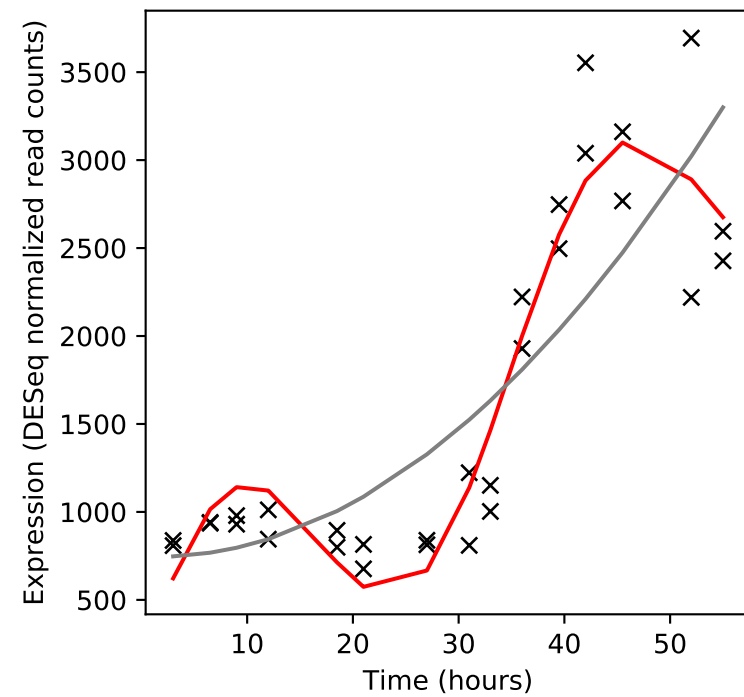
Rv0553/menC



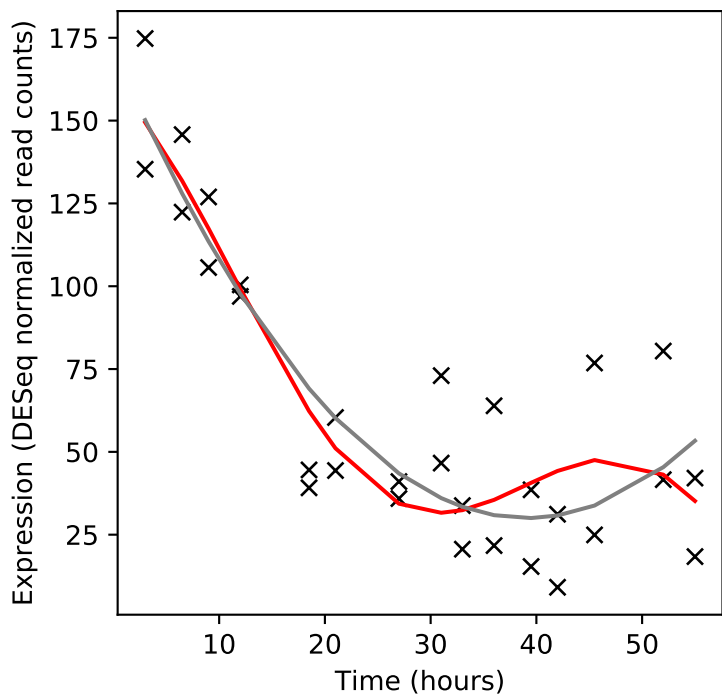
Rv0554/bpoC



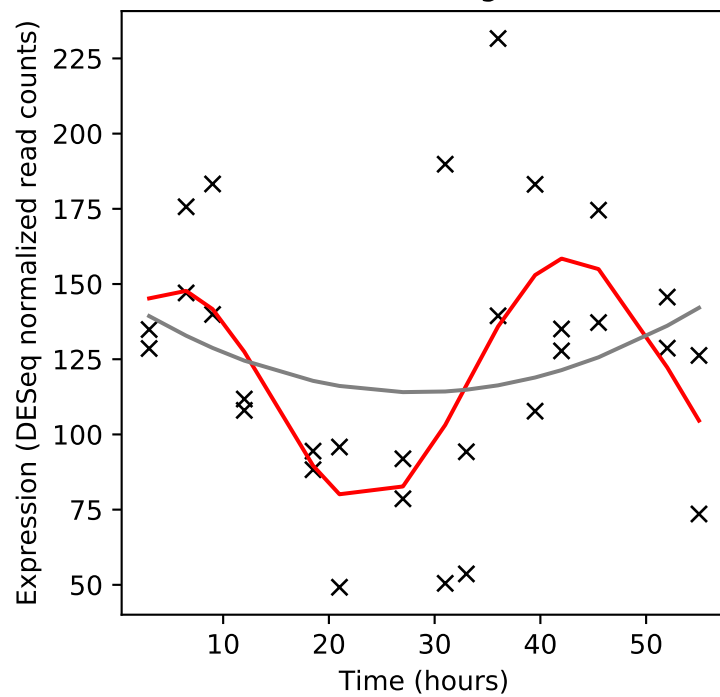
Rv0555/menD



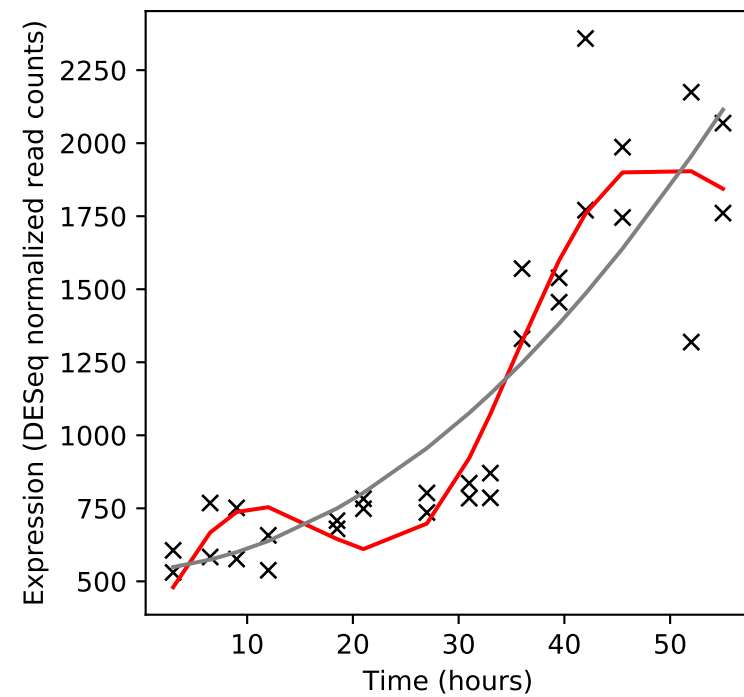
Rv0556/-



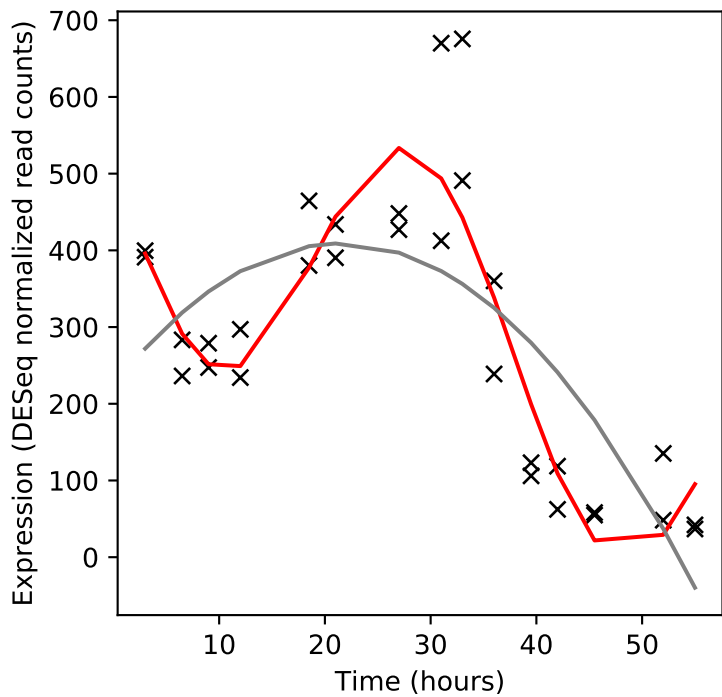
Rv0557/mgtA



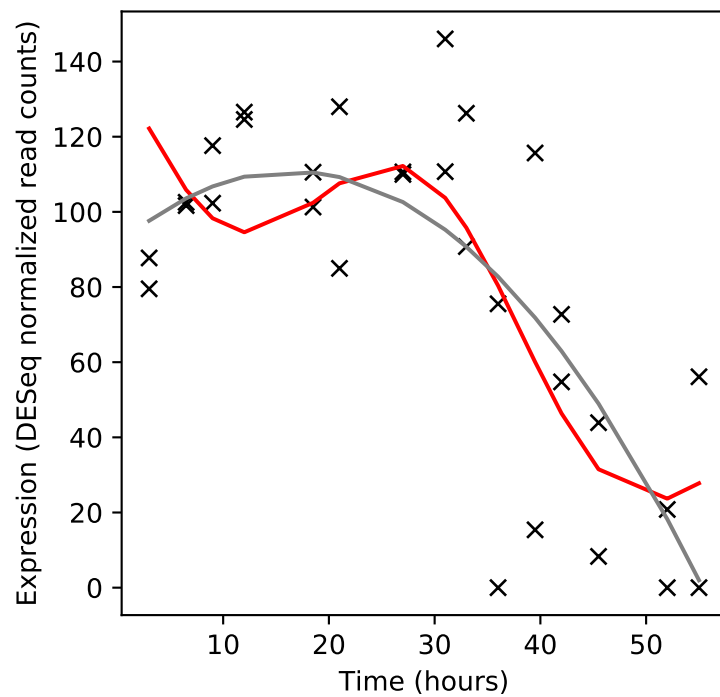
Rv0558/menH



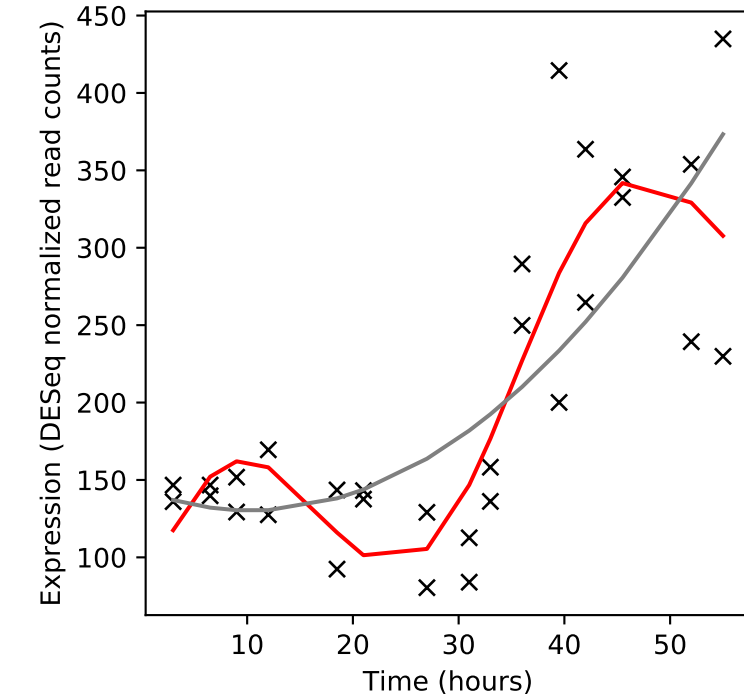
Rv0559c/-



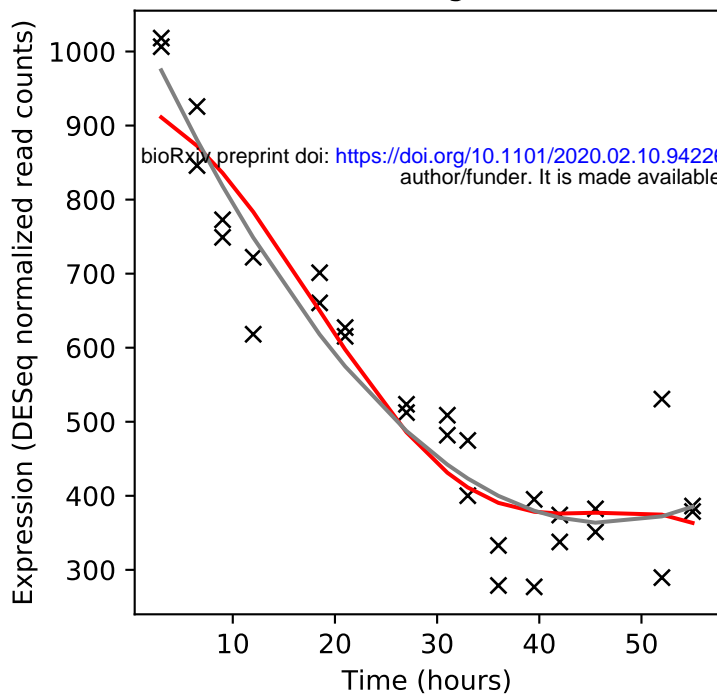
Rv0560c/-



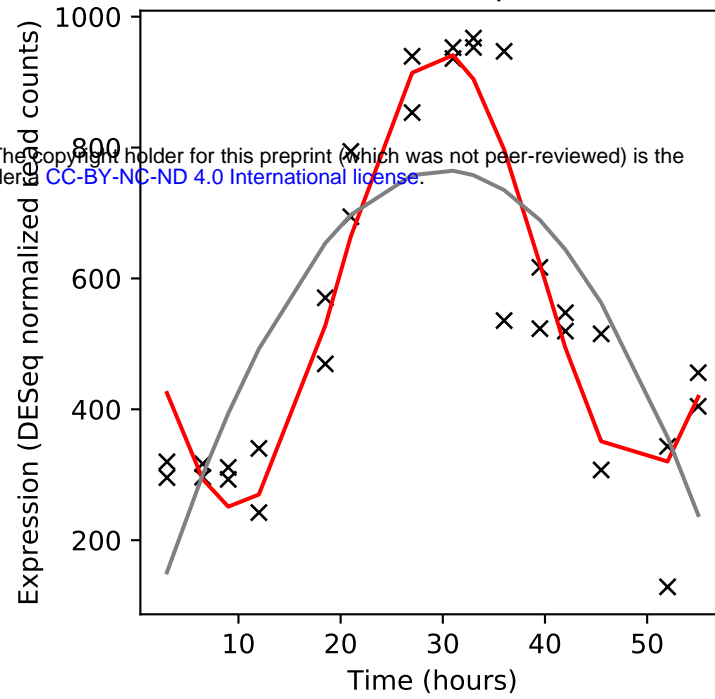
Rv0561c/-



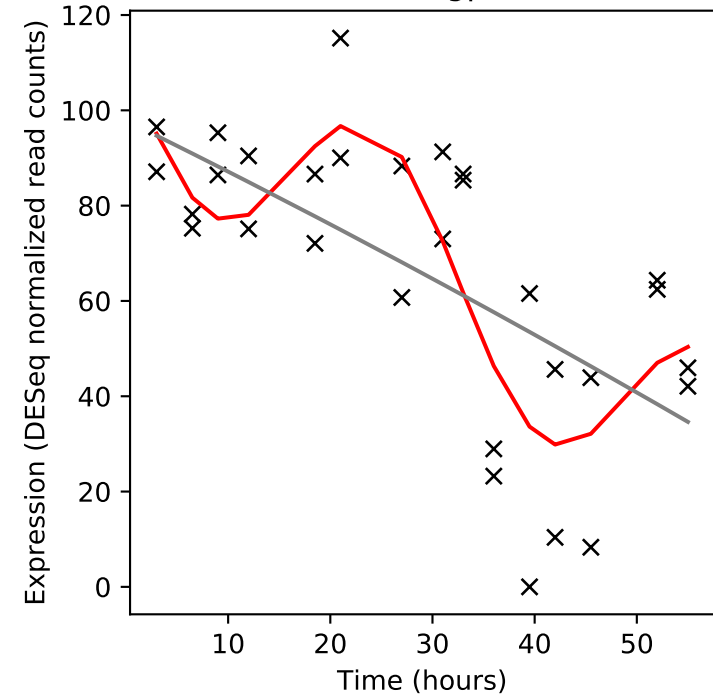
Rv0562/grcC1



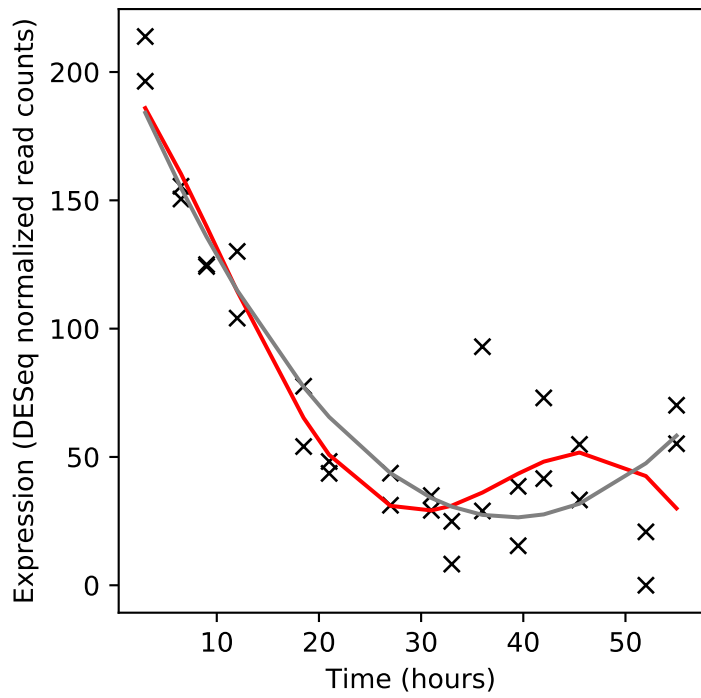
Rv0563/htpX



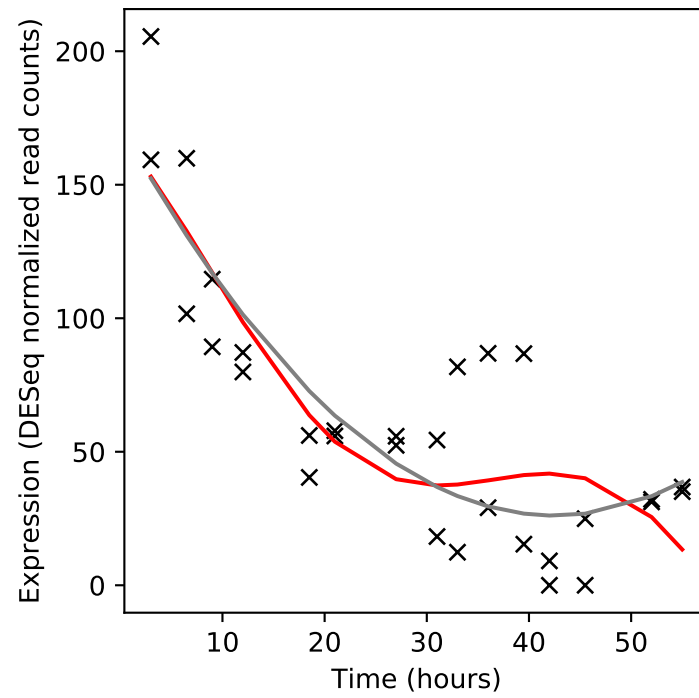
Rv0564c/gpdA1



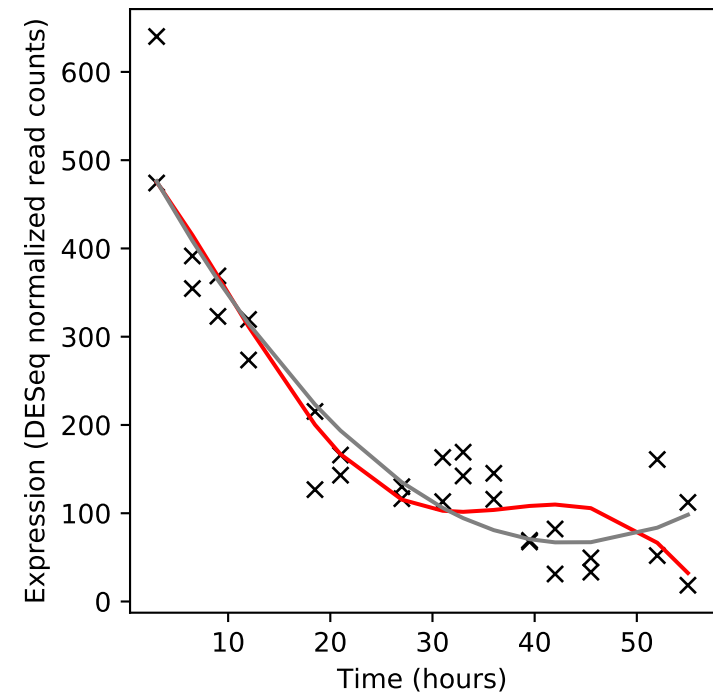
Rv0565c/-



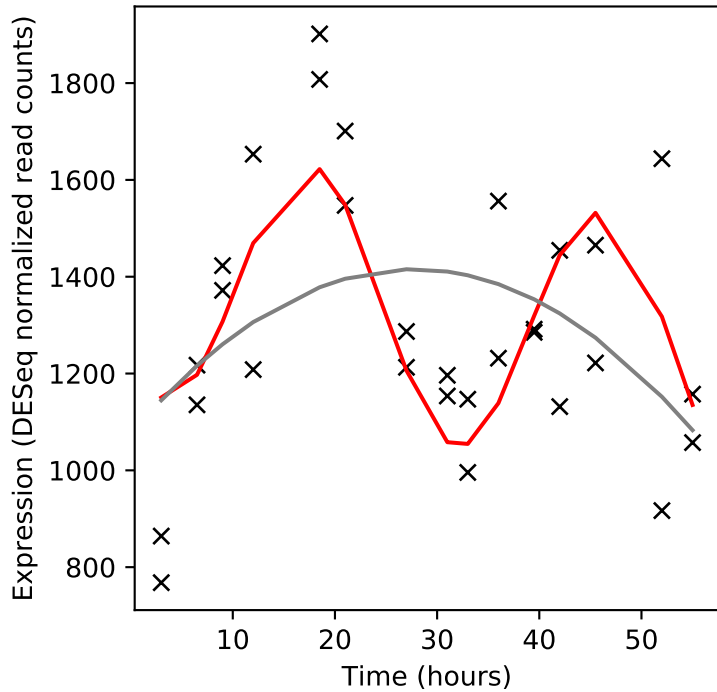
Rv0566c/-



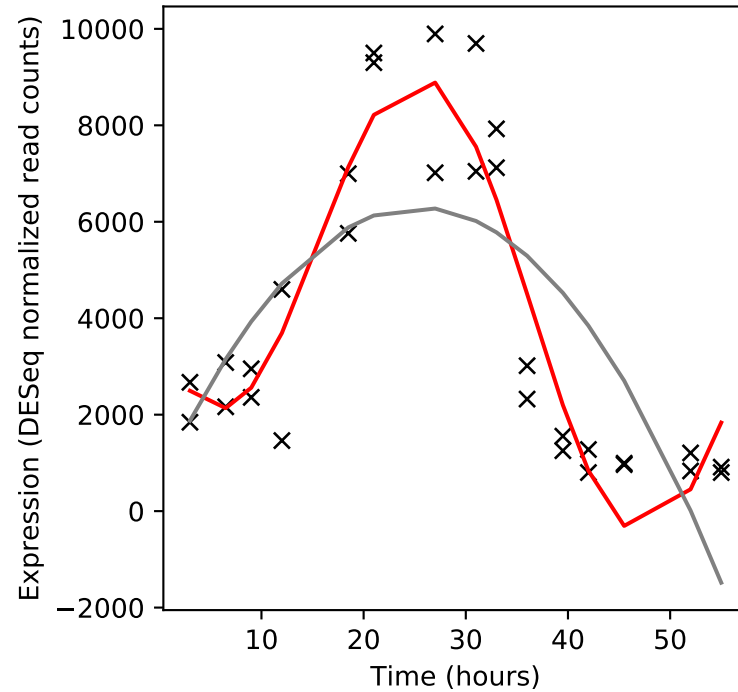
Rv0567/-



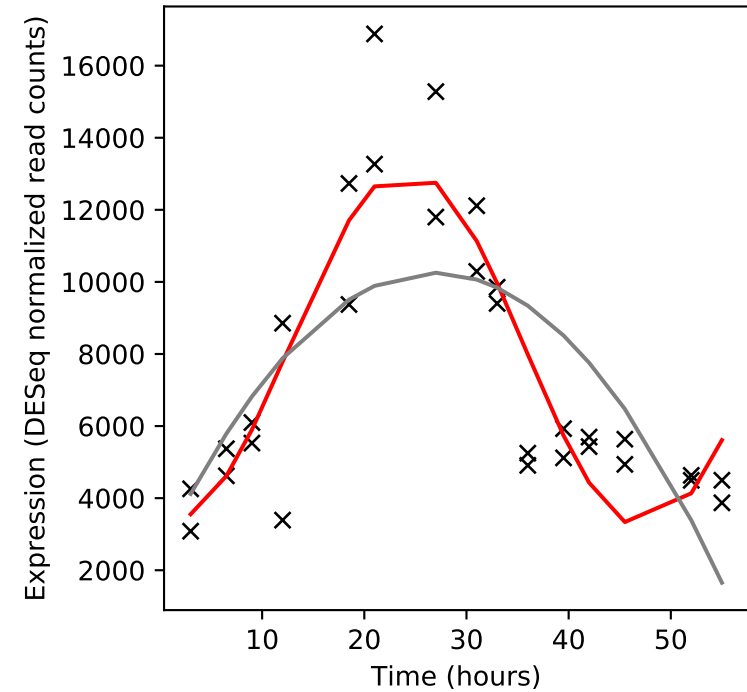
Rv0568/cyp135B1



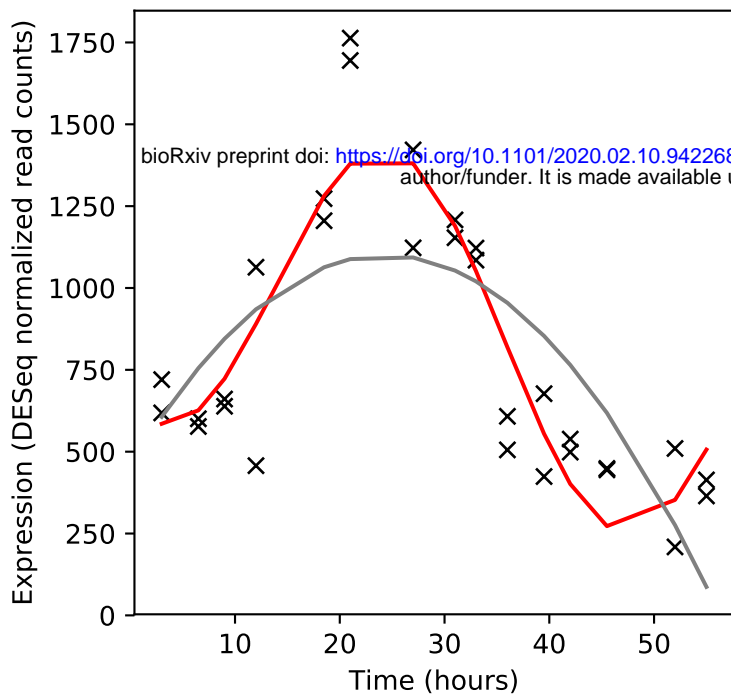
Rv0569/-



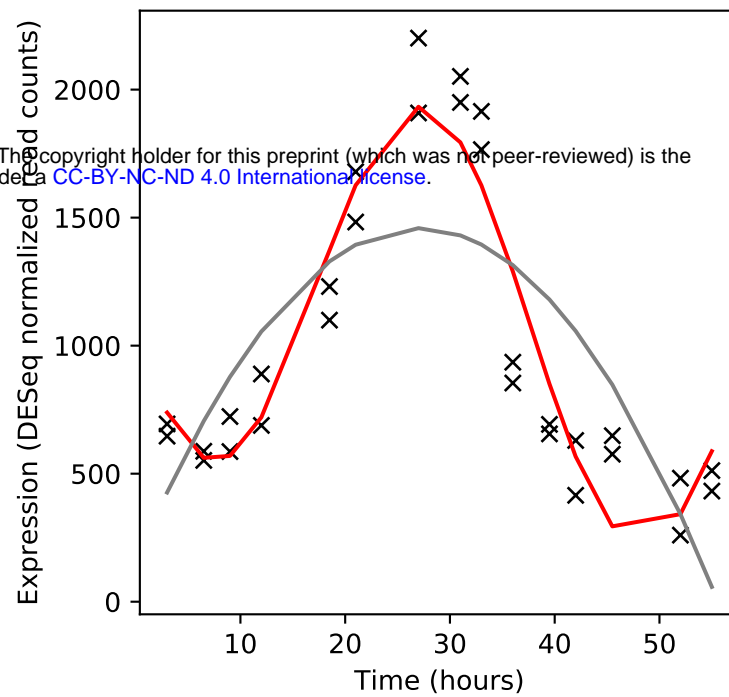
Rv0570/nrdZ



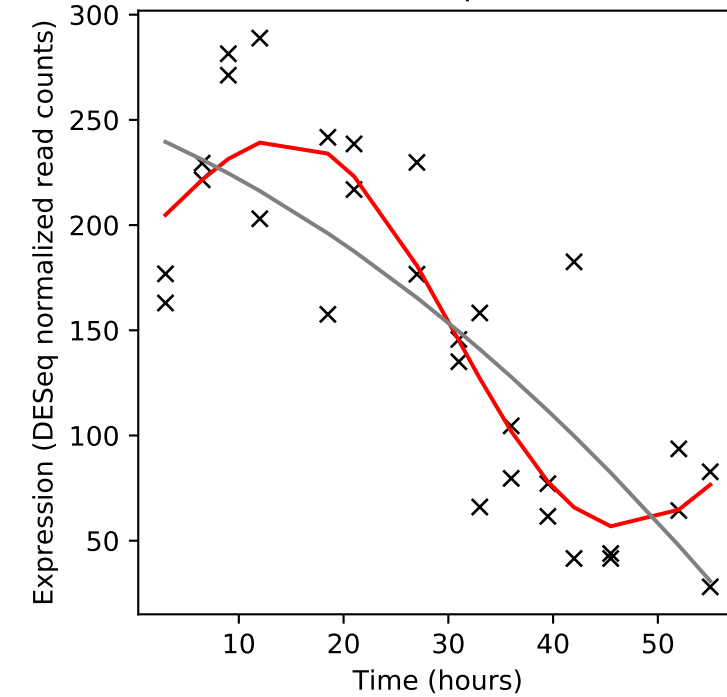
Rv0571c/-



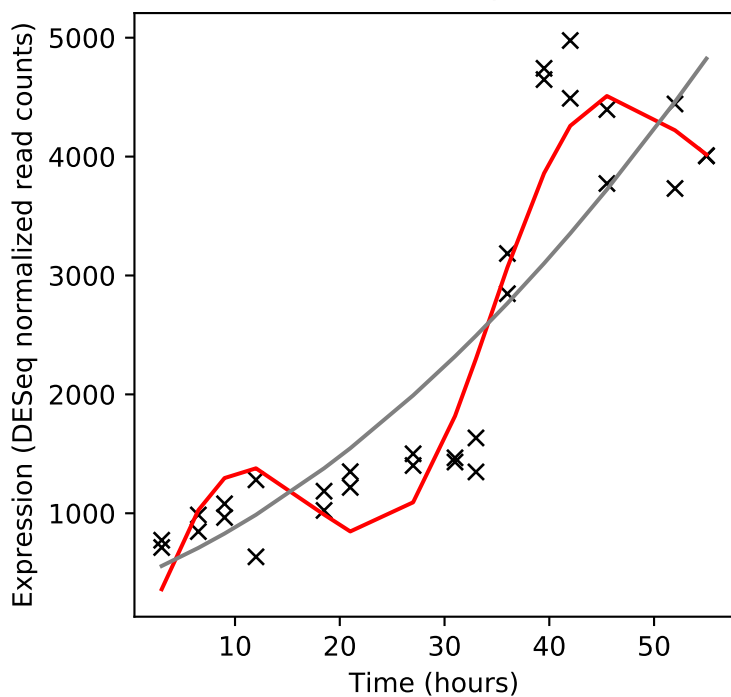
Rv0572c/-



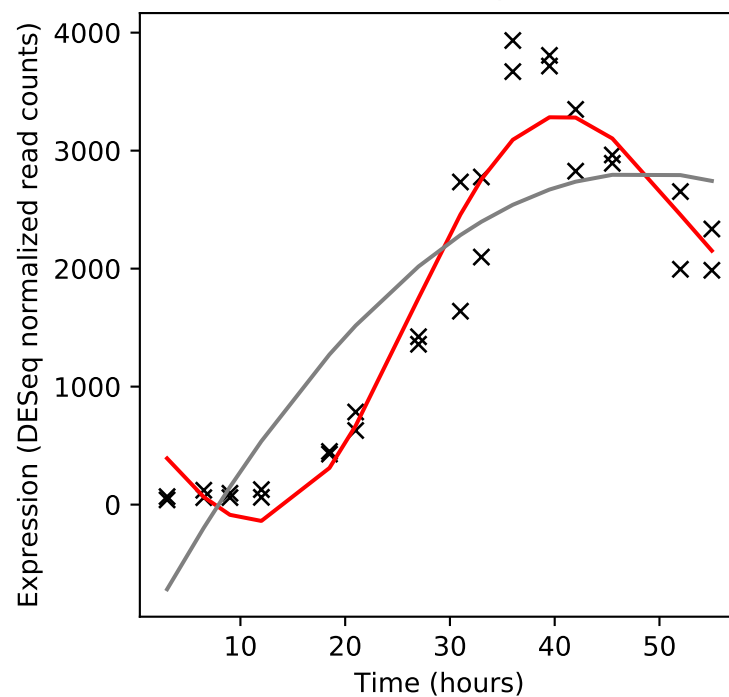
Rv0573c/pncB2



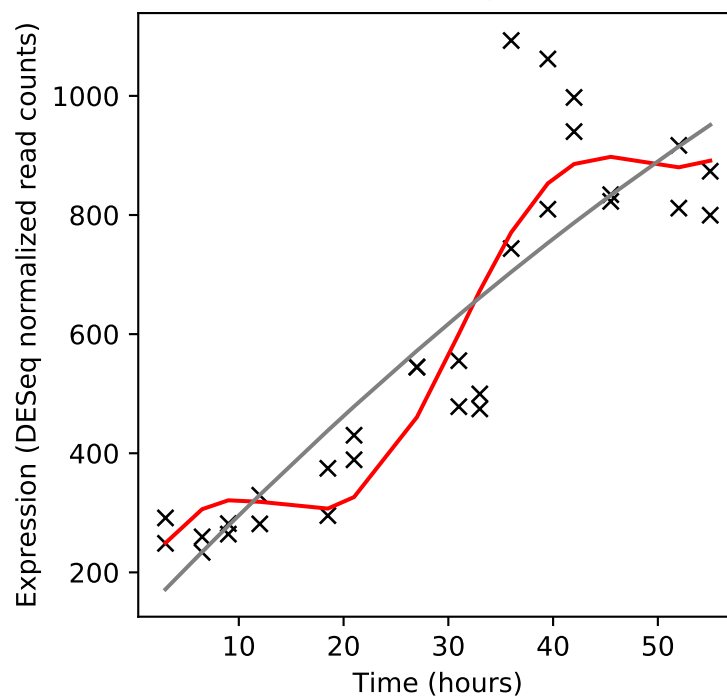
Rv0574c/-



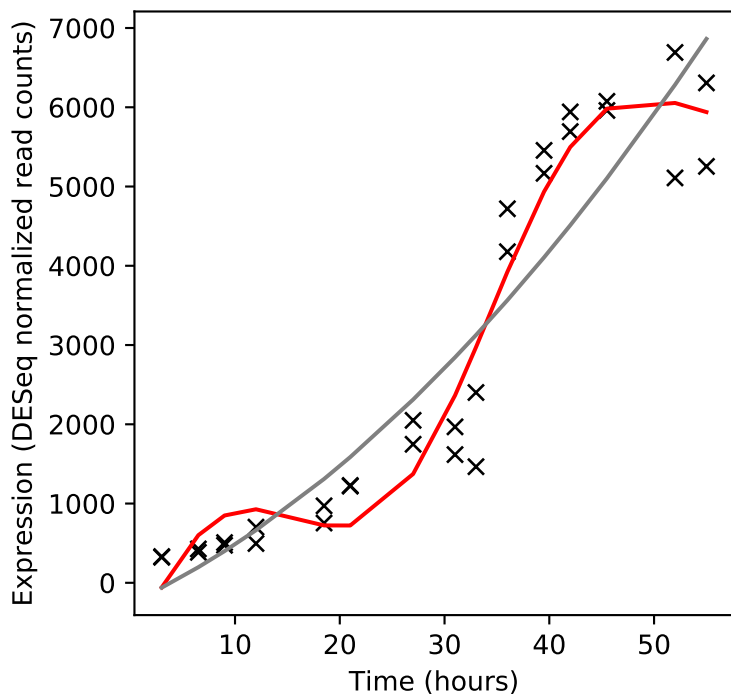
Rv0575c/-



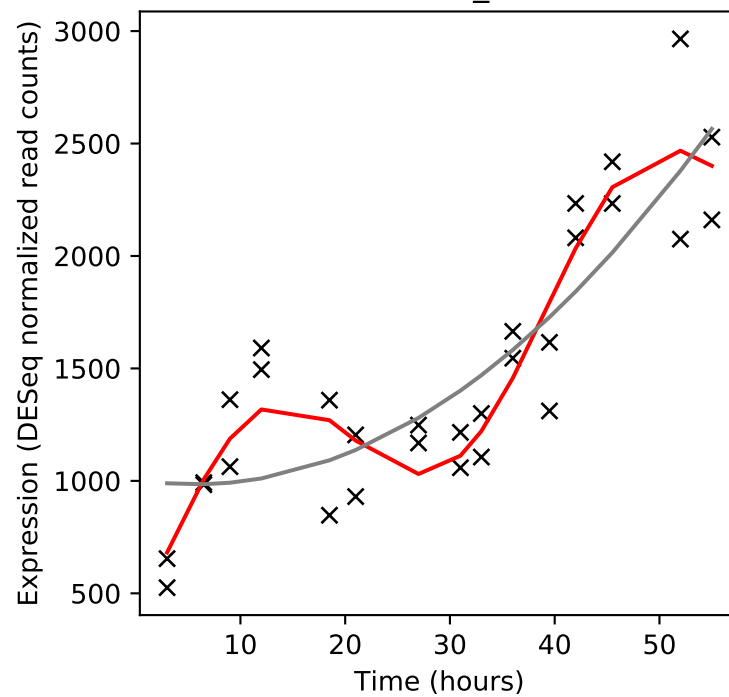
Rv0576/-



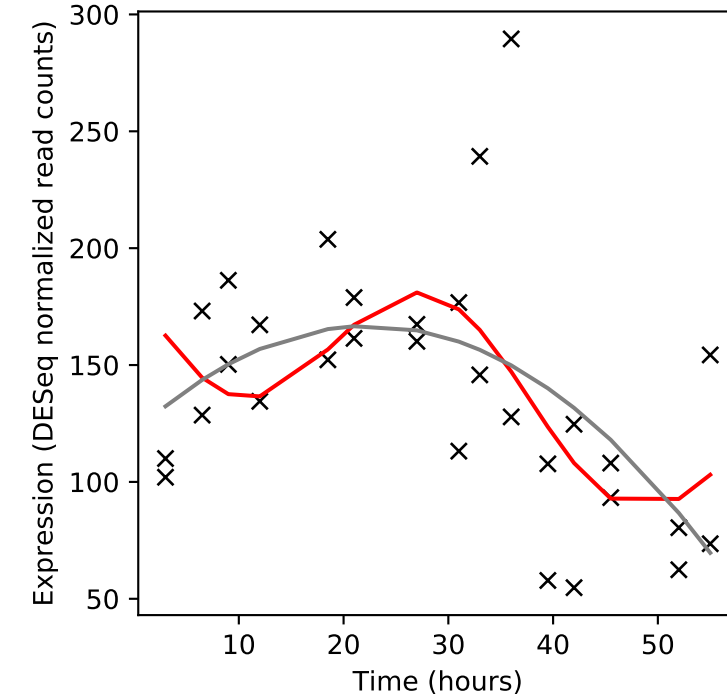
Rv0577/TB27.3



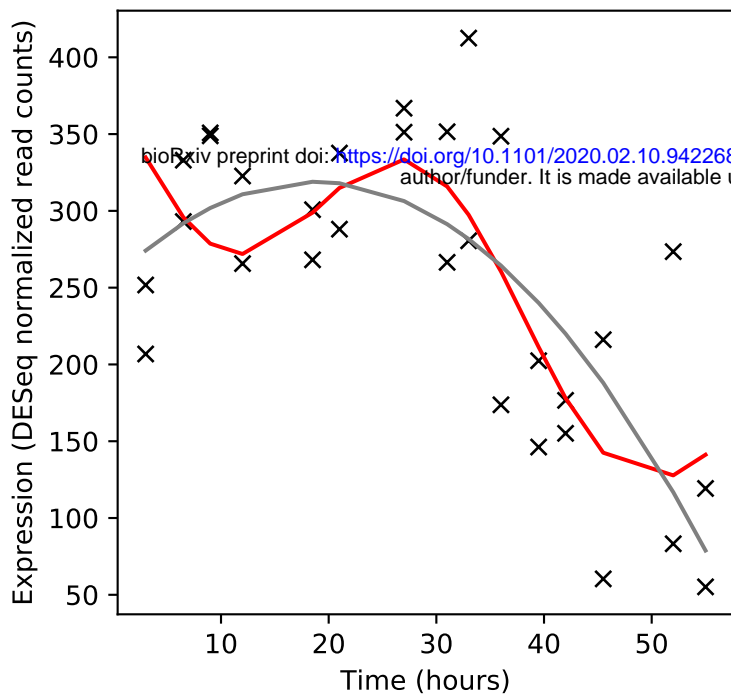
Rv0578c/PE_PGRS7



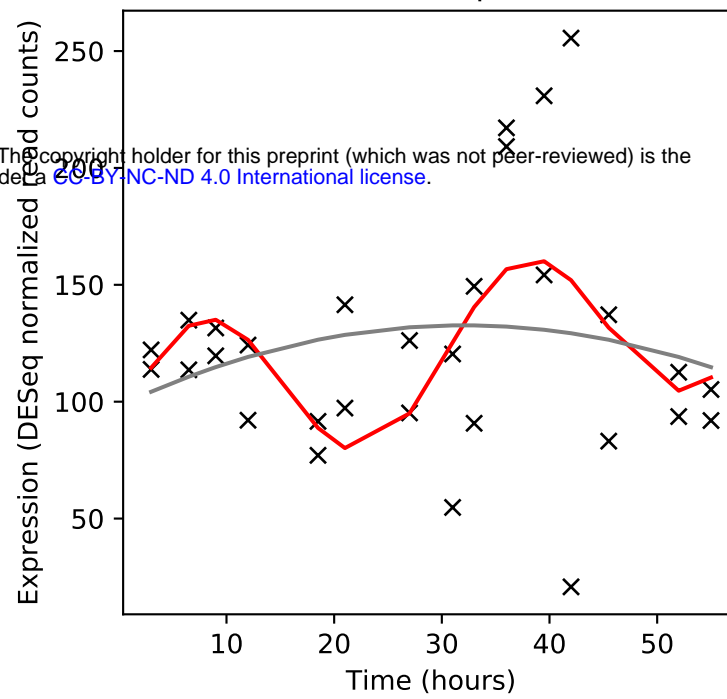
Rv0579/-



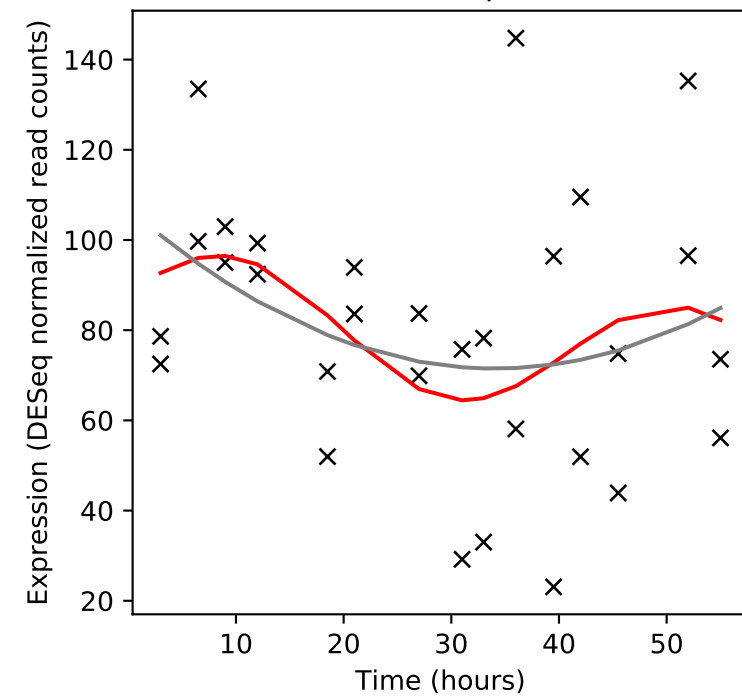
Rv0580c/-



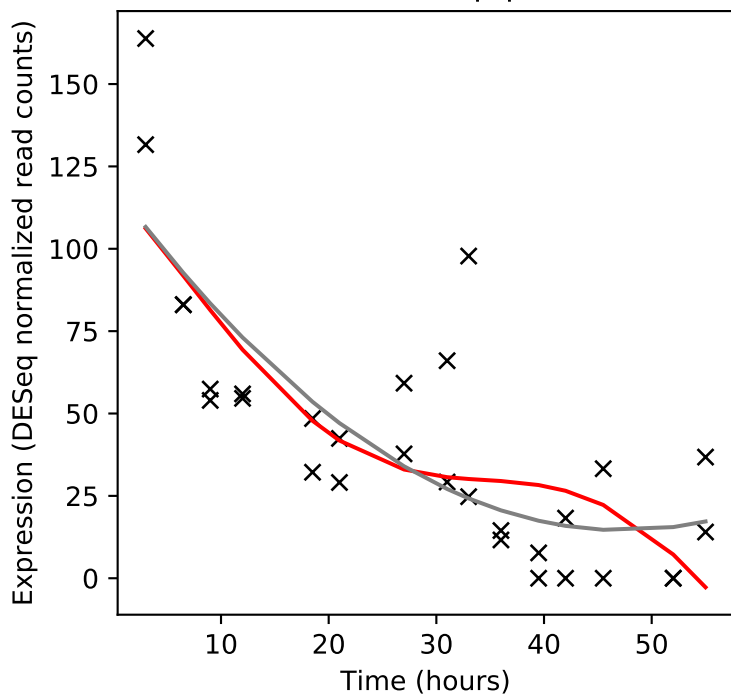
Rv0581/vapB26



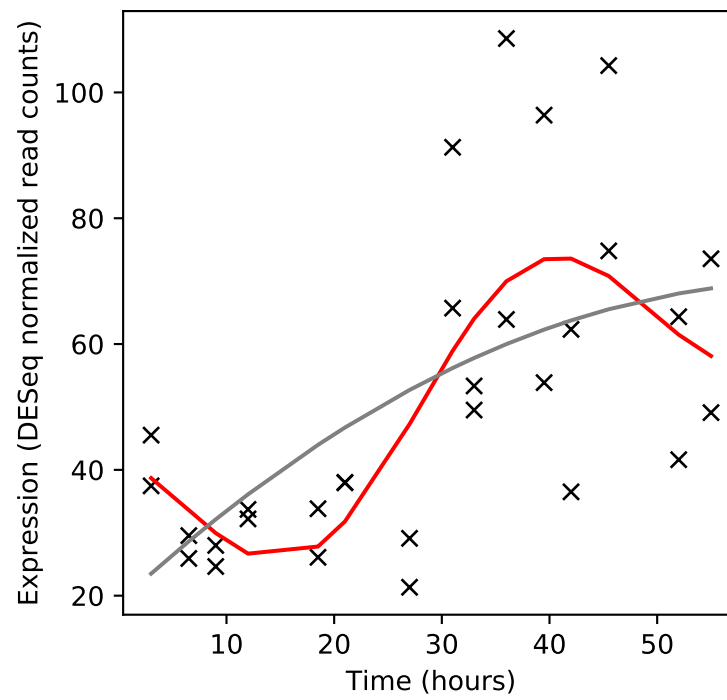
Rv0582/vapC26



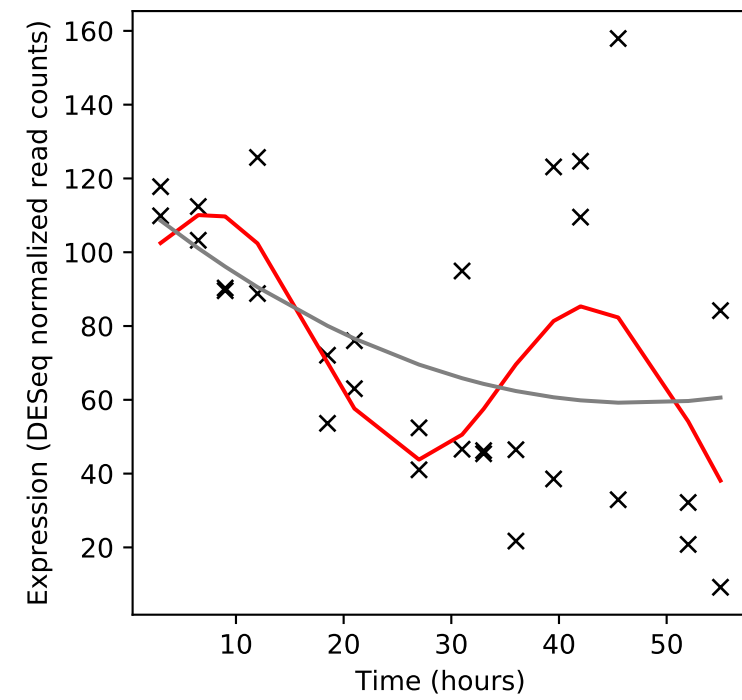
Rv0583c/lpqN



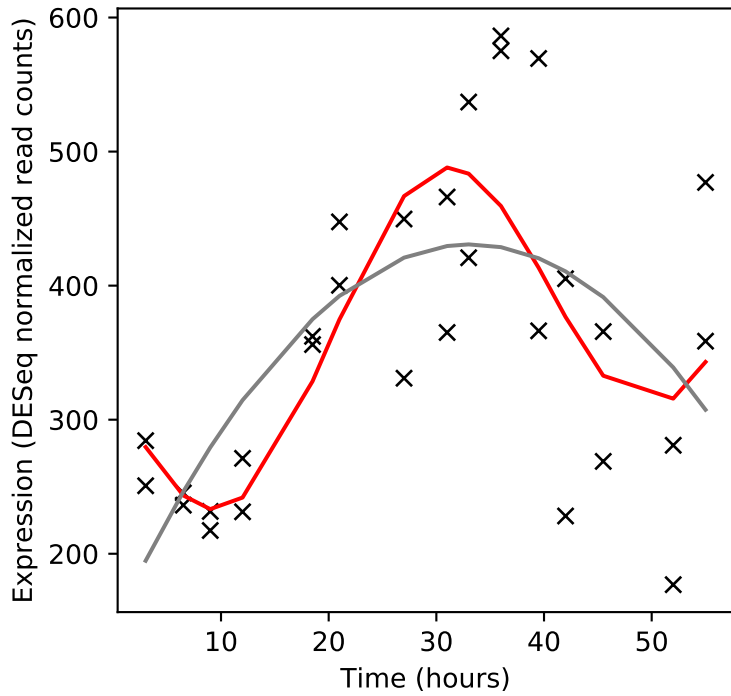
Rv0584/-



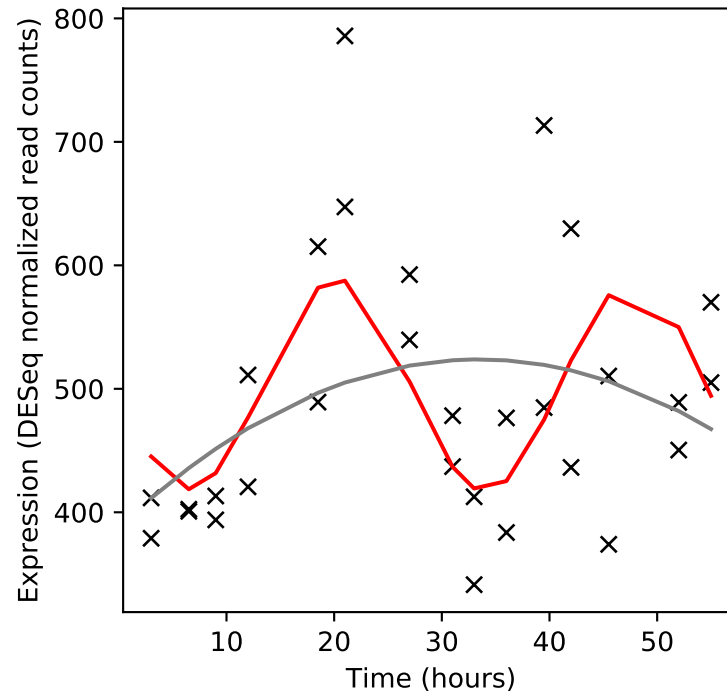
Rv0585c/-



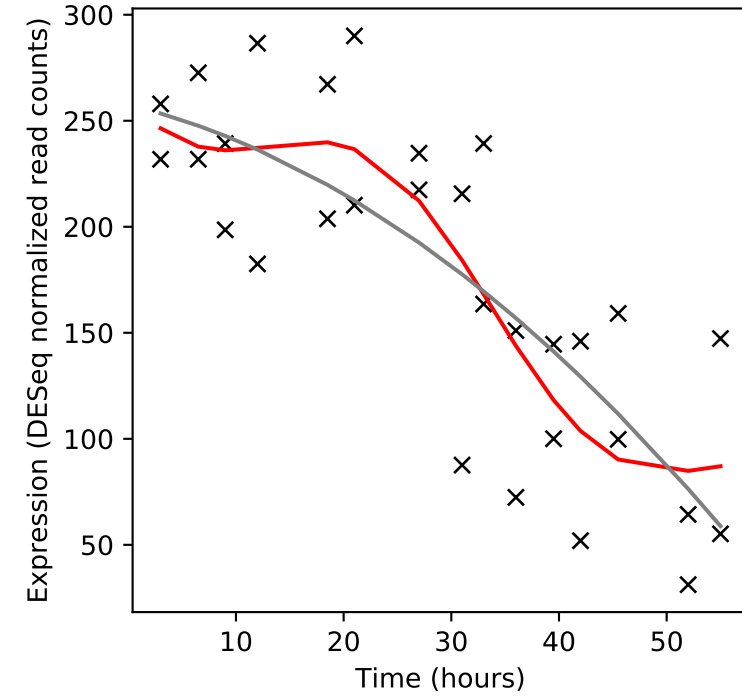
Rv0586/mce2R



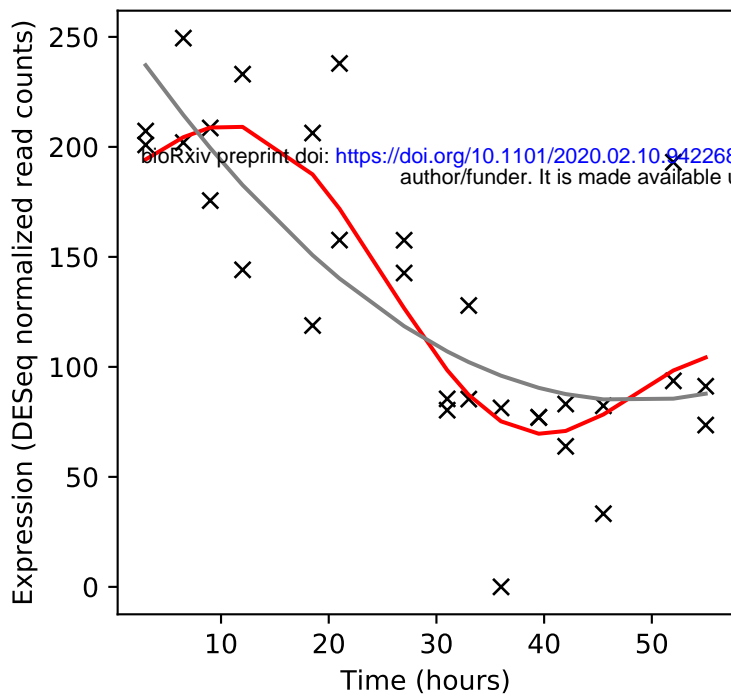
Rv0587/yrbE2A



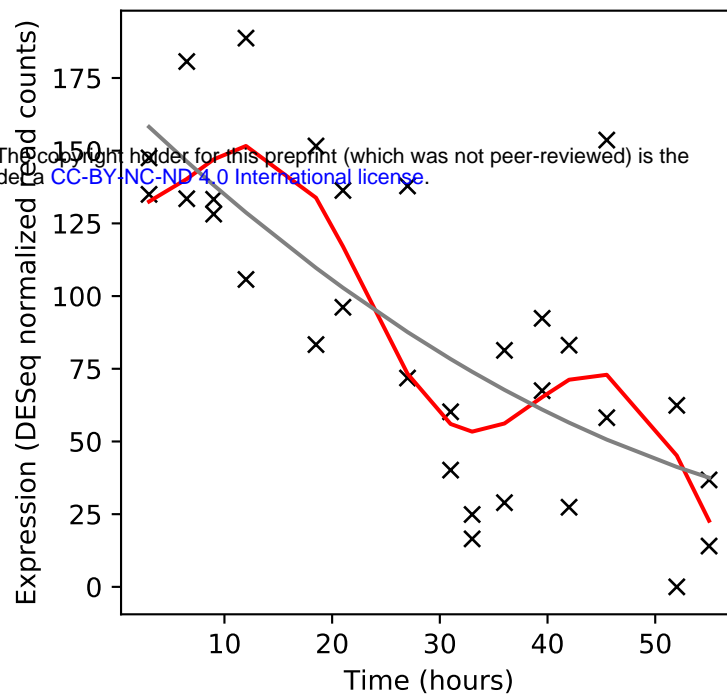
Rv0588/yrbE2B



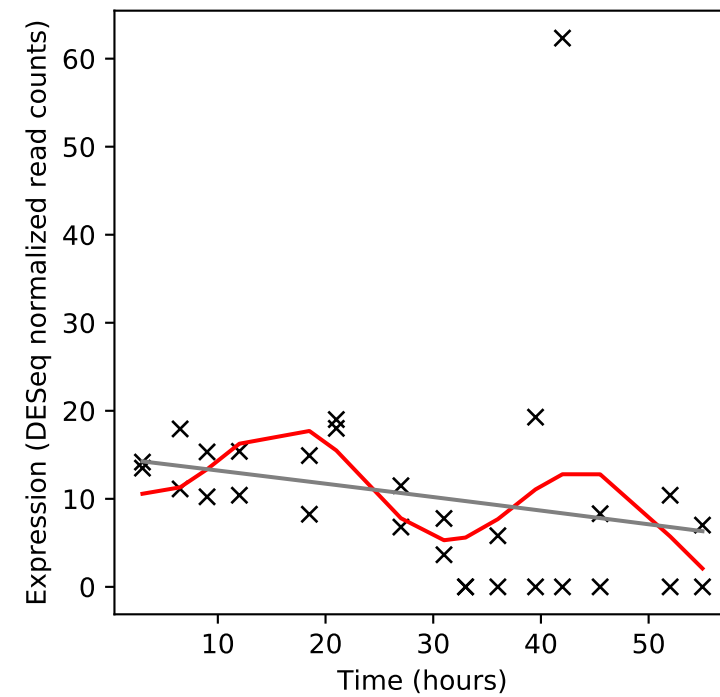
Rv0589/mce2A



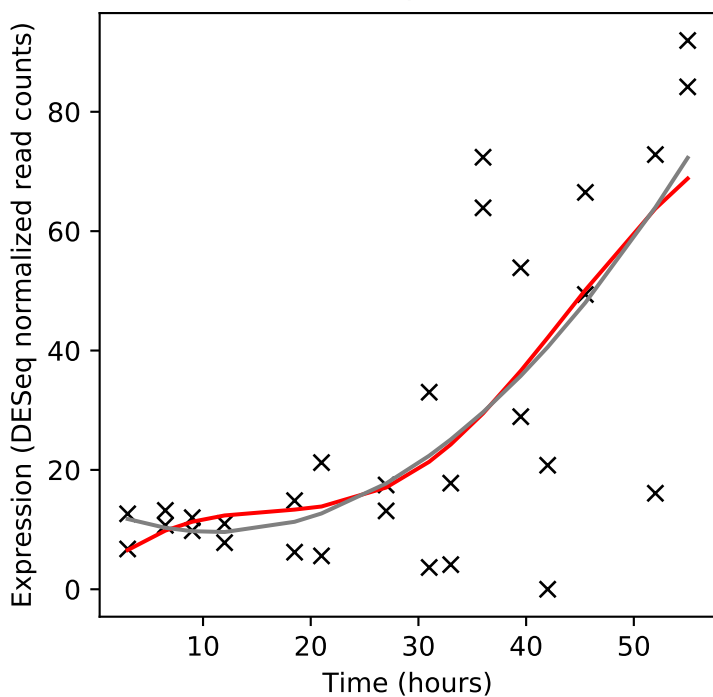
Rv0590/mce2B



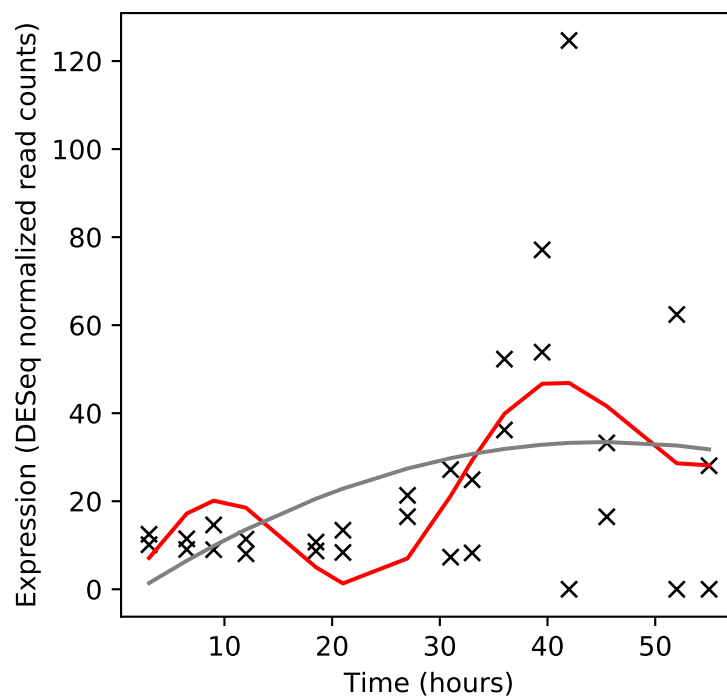
Rv0590A/-



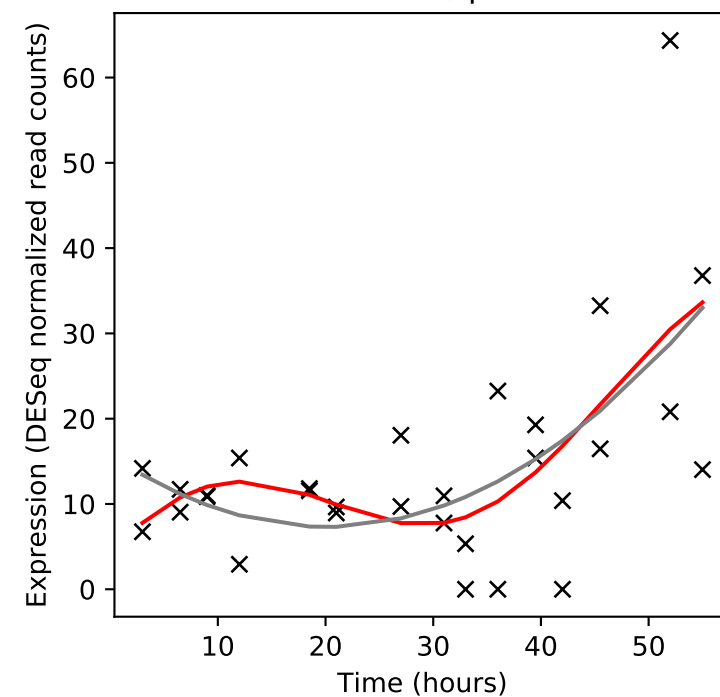
Rv0591/mce2C



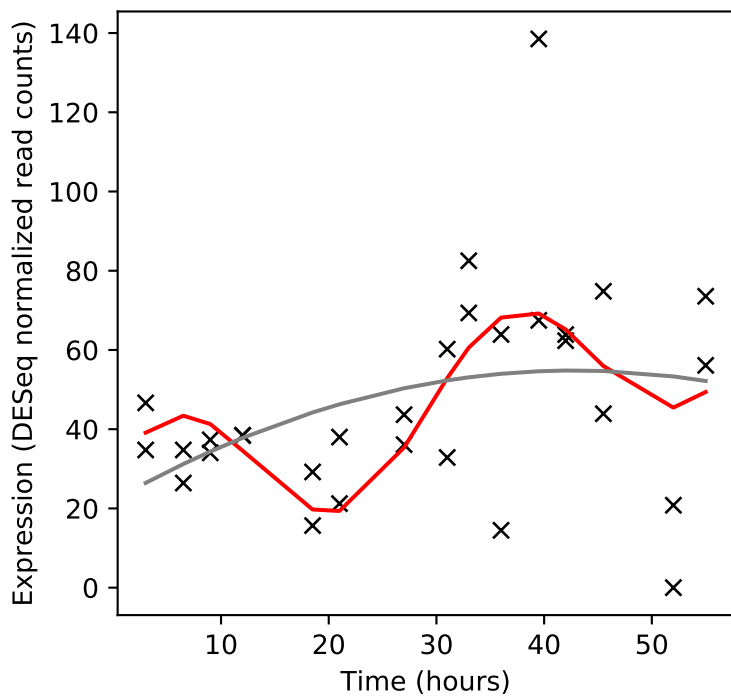
Rv0592/mce2D



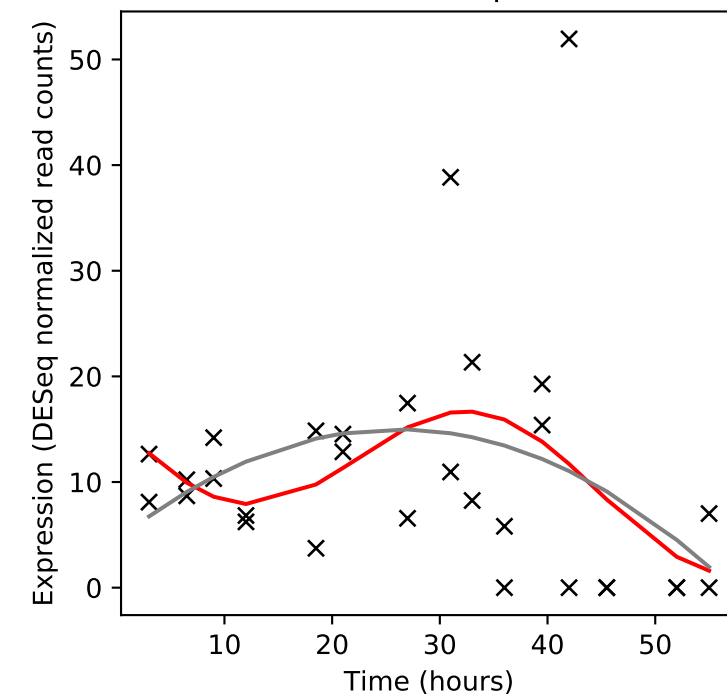
Rv0593/lprL



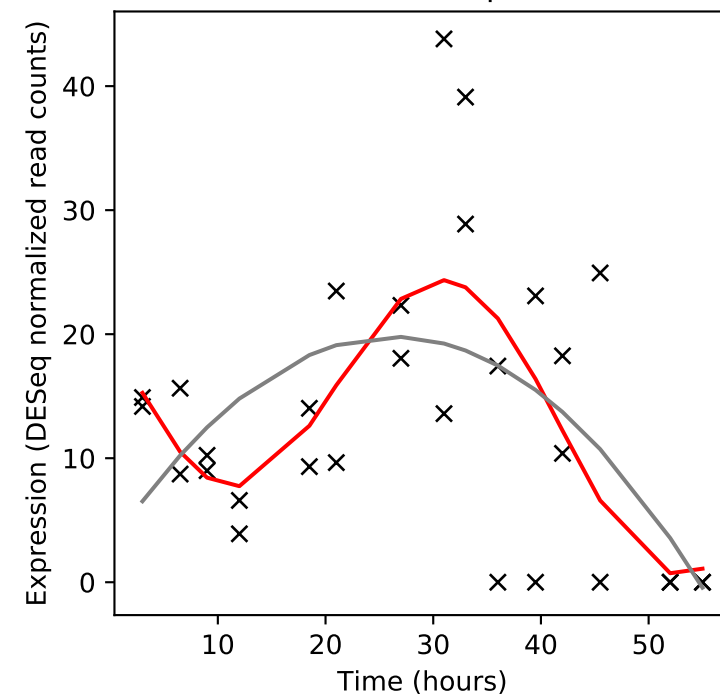
Rv0594/mce2F



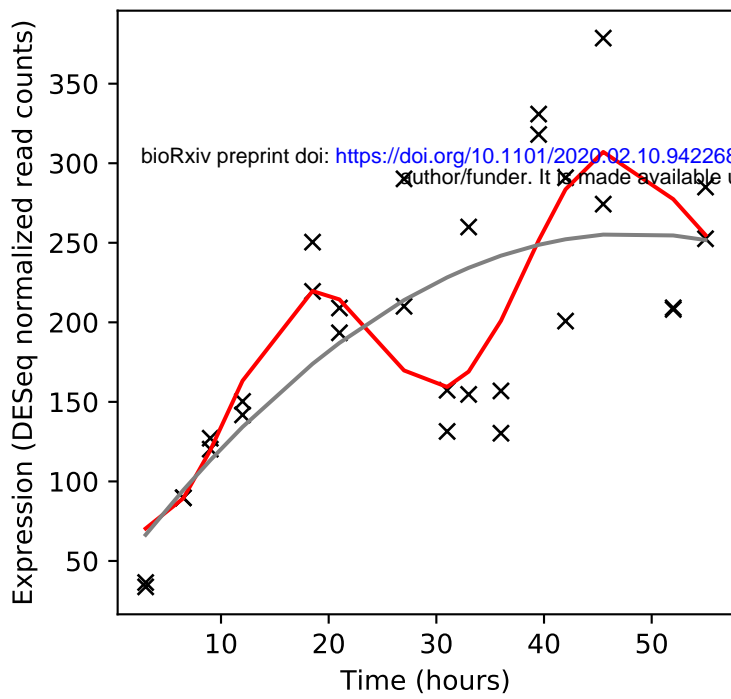
Rv0595c/vapC4



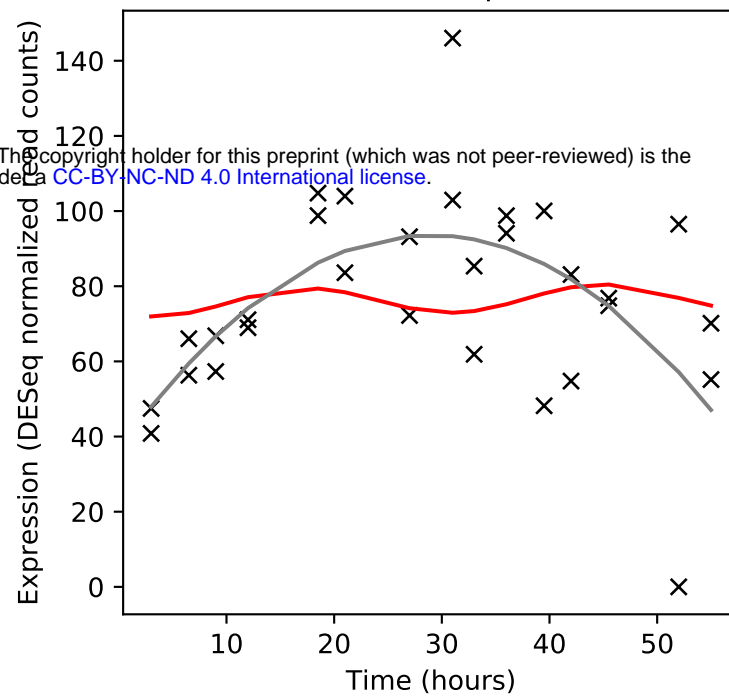
Rv0596c/vapB4



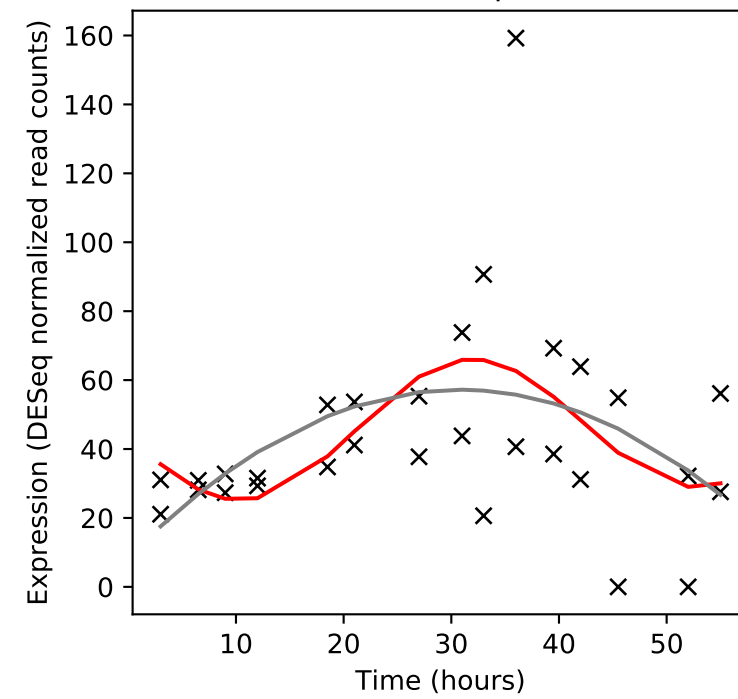
Rv0597c/-



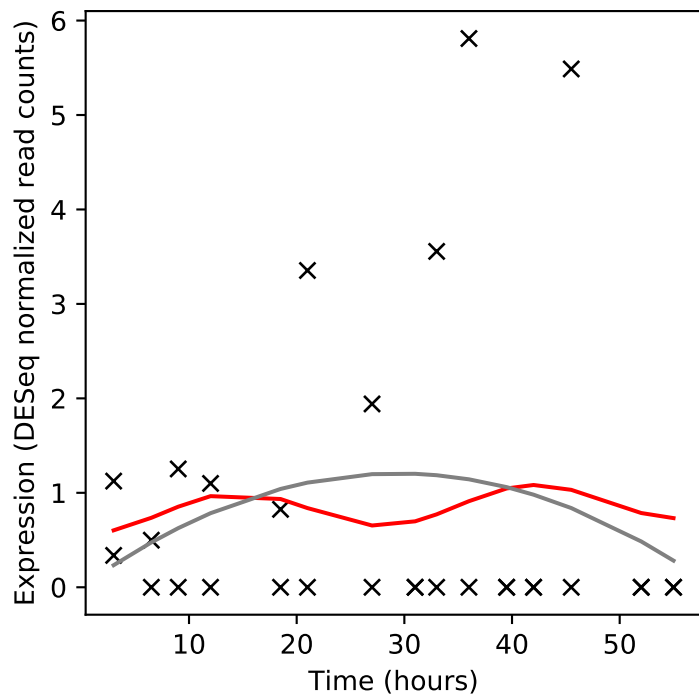
Rv0598c/vapC27



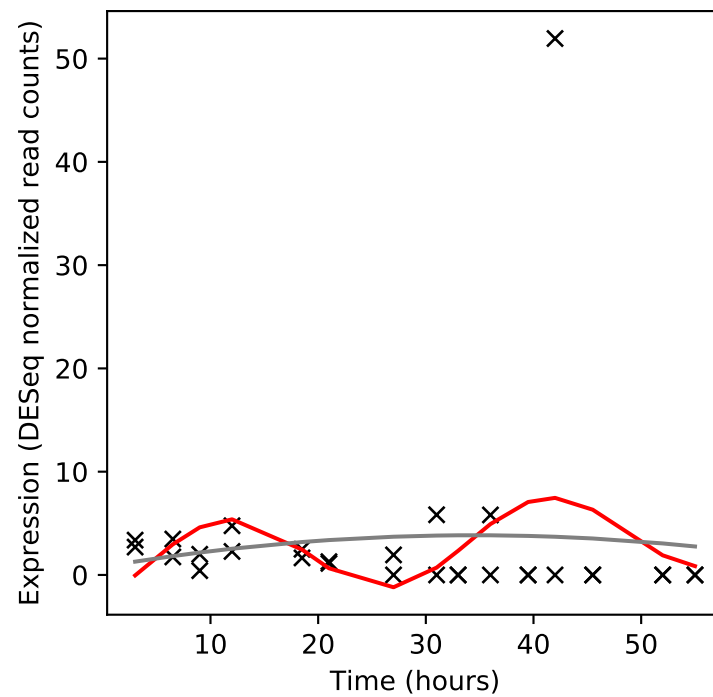
Rv0599c/vapB27



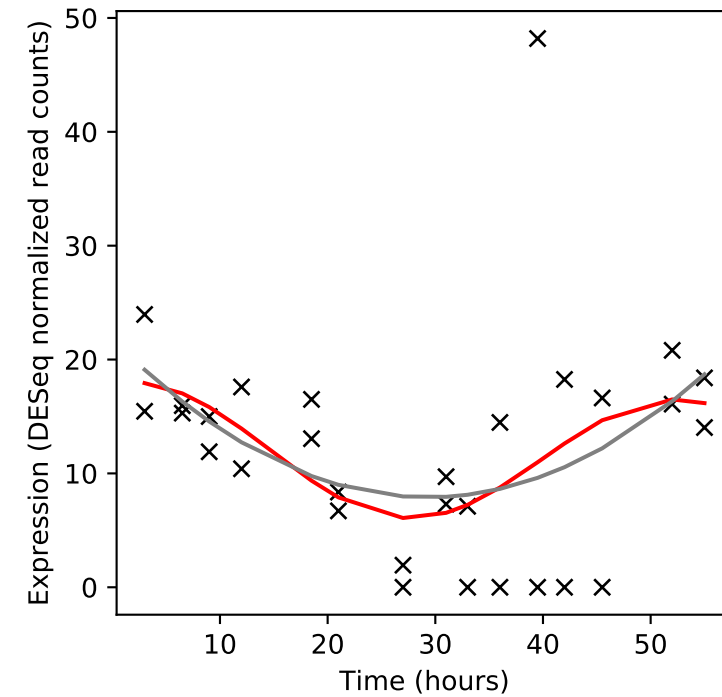
Rv0600c/-



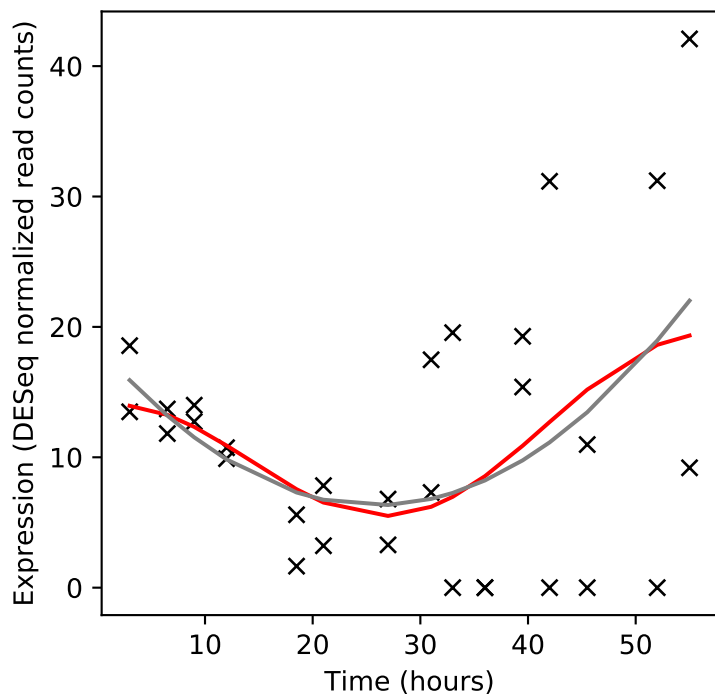
Rv0601c/-



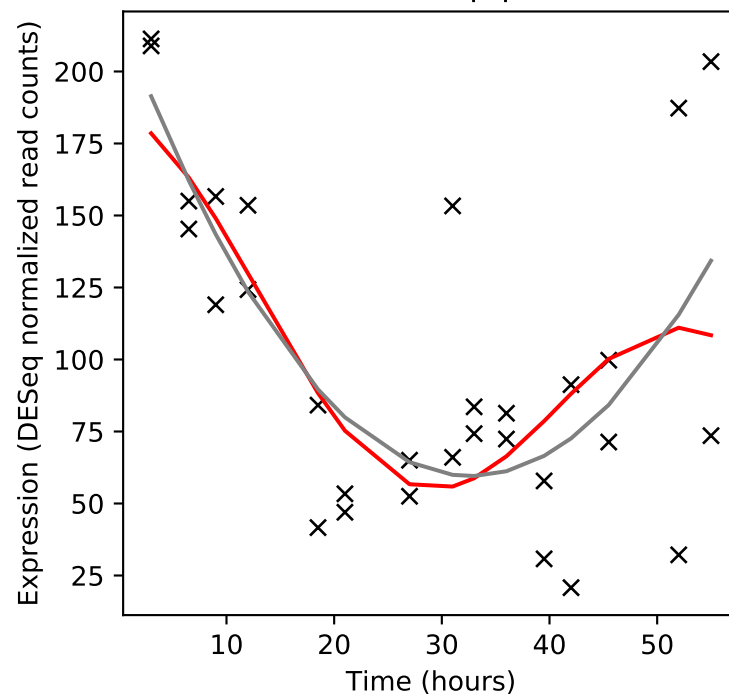
Rv0602c/tcrA



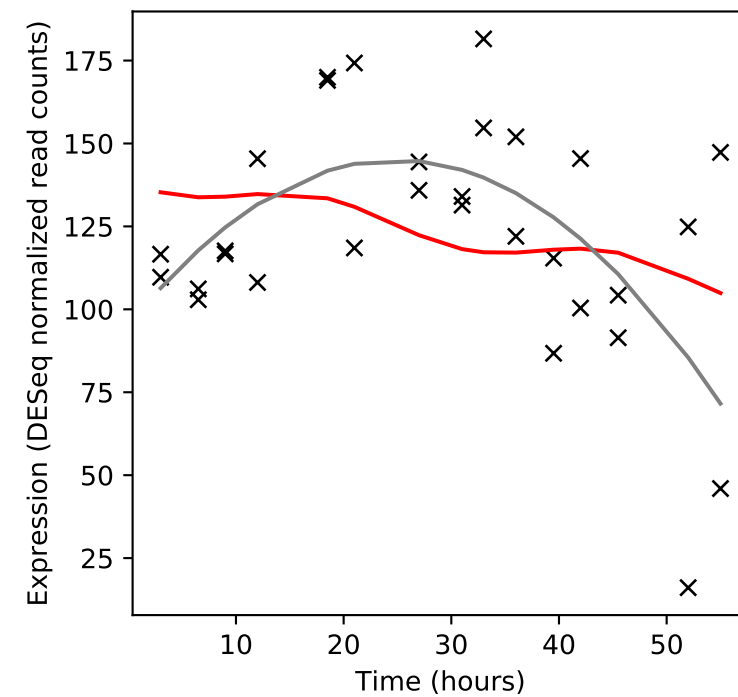
Rv0603c/-



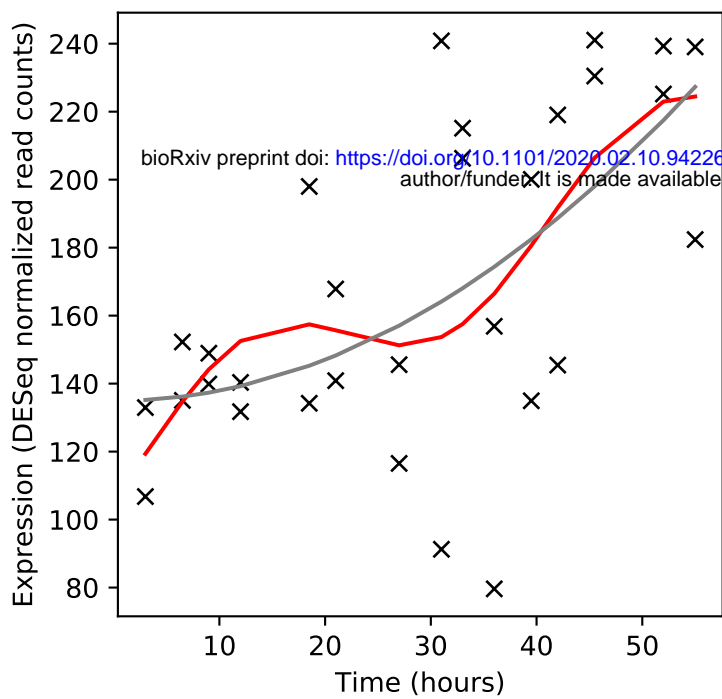
Rv0604/lpqO



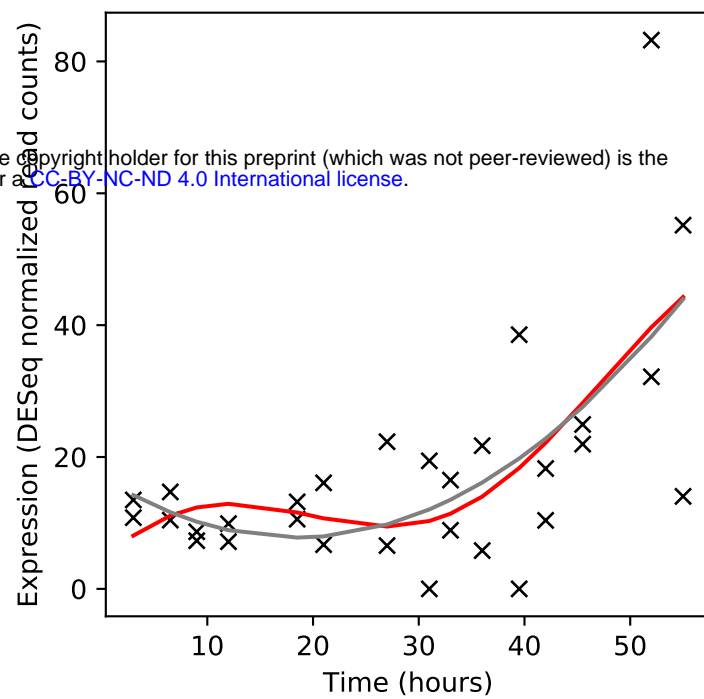
Rv0605c/-



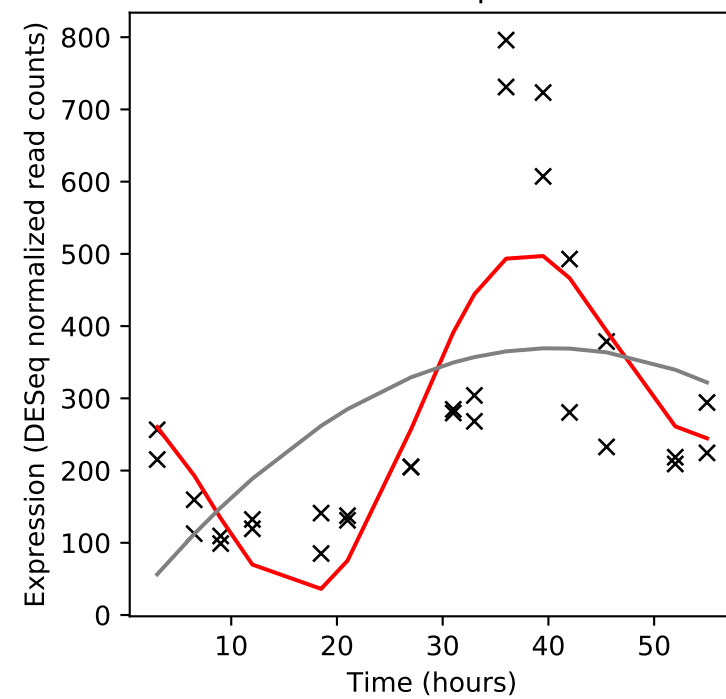
Rv0606/-



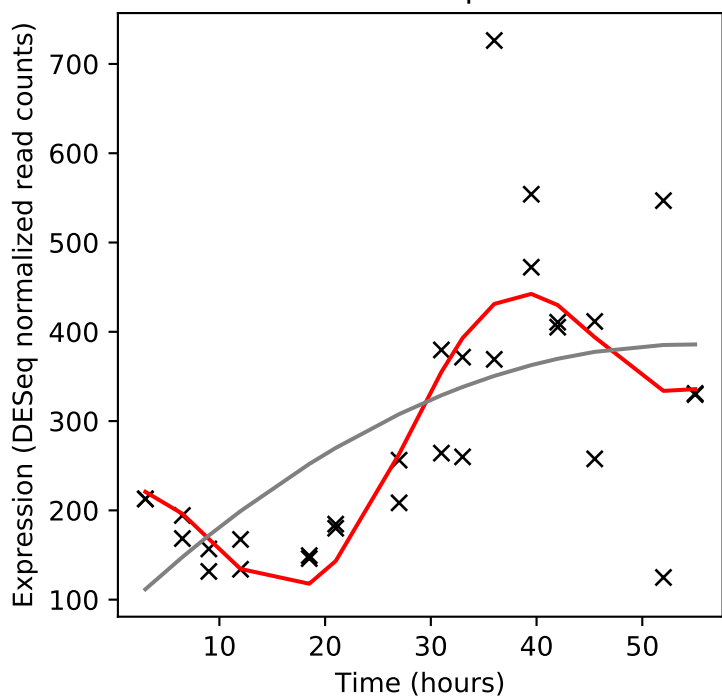
Rv0607/-



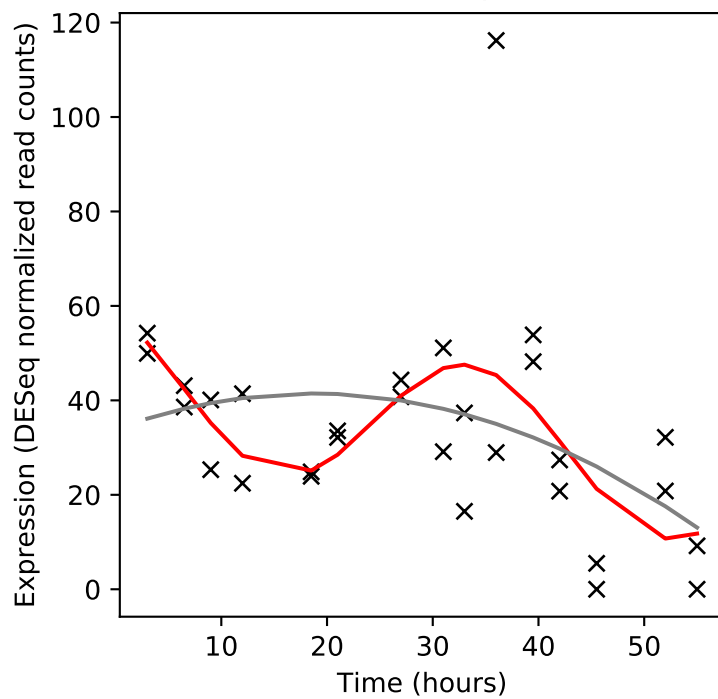
Rv0608/vapB28



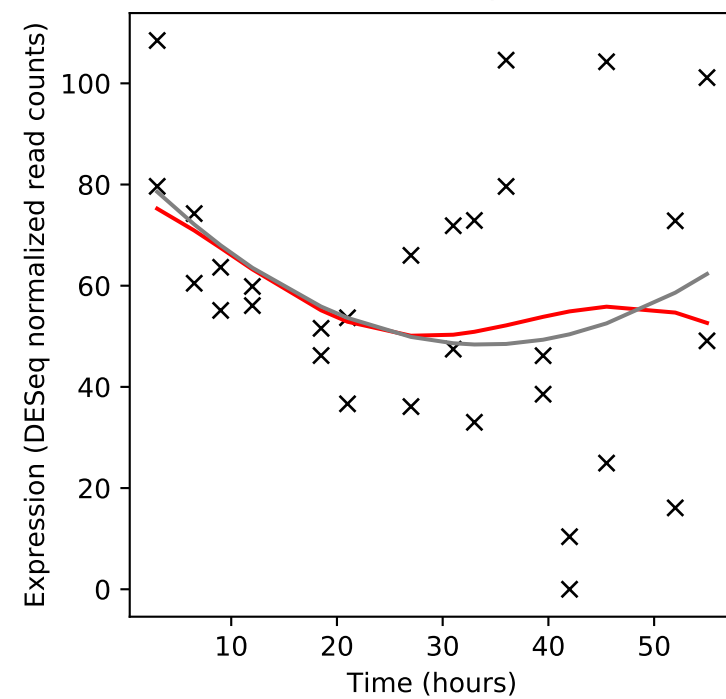
Rv0609/vapC28



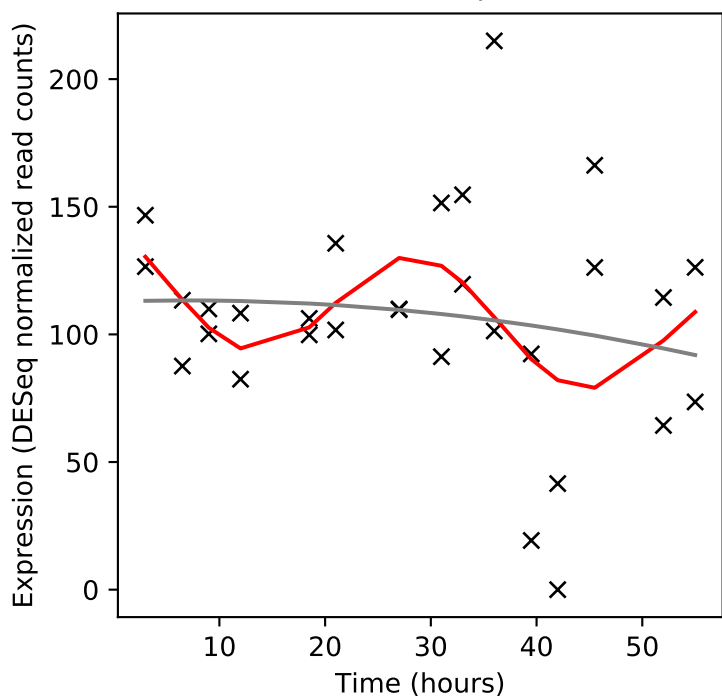
Rv0609A/-



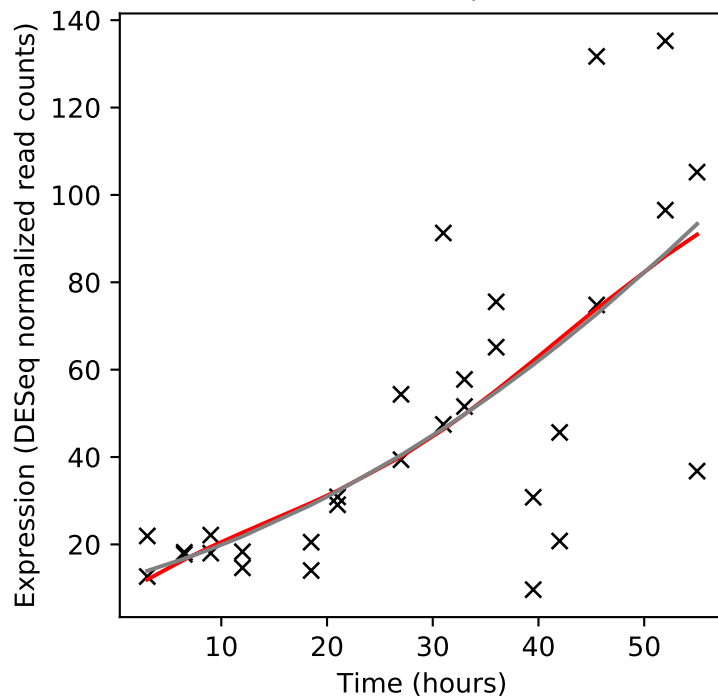
Rv0610c/-



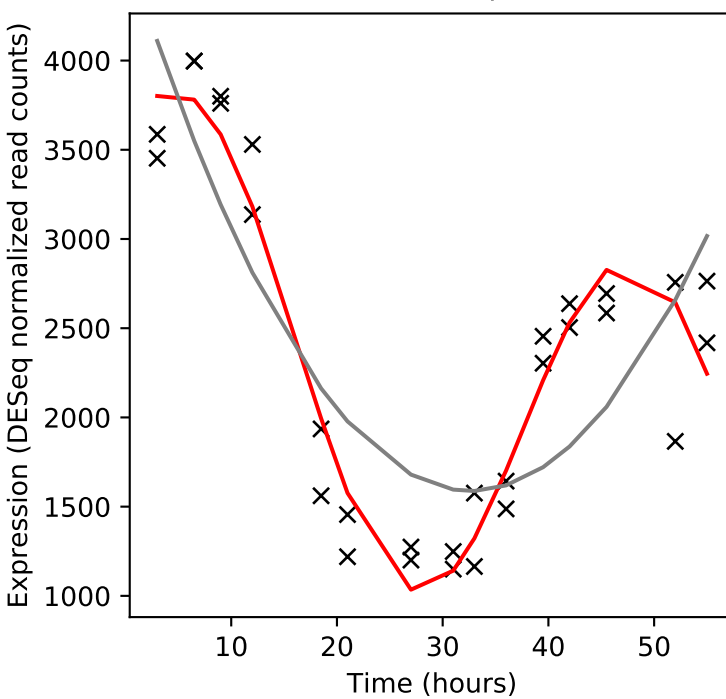
Rv0611c/-



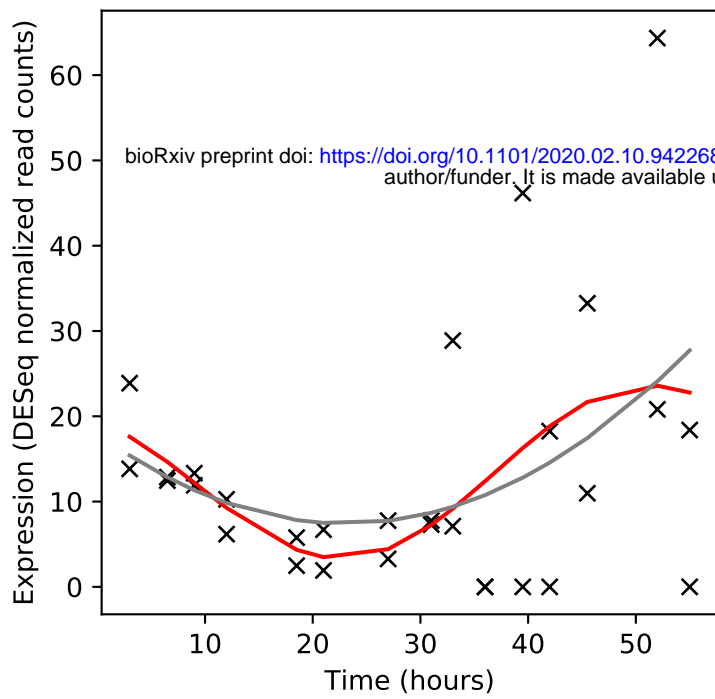
Rv0612/-



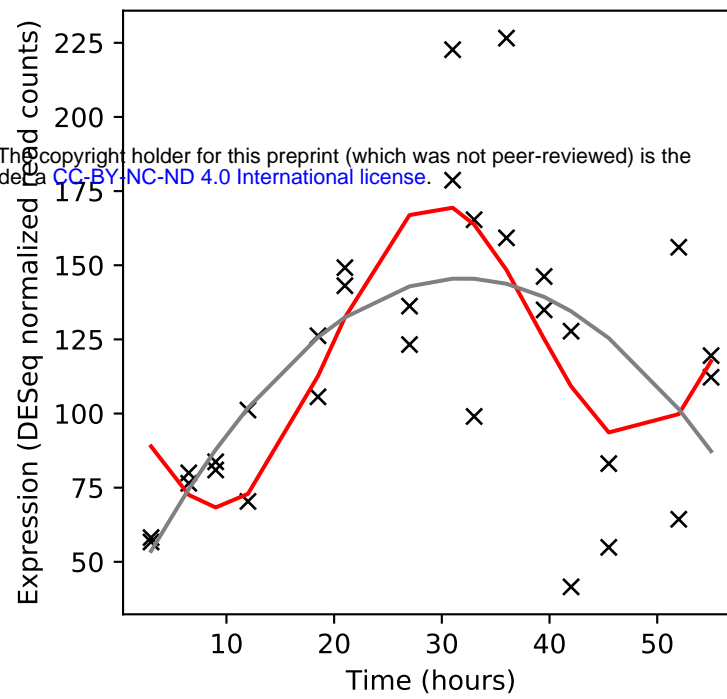
Rv0613c/-



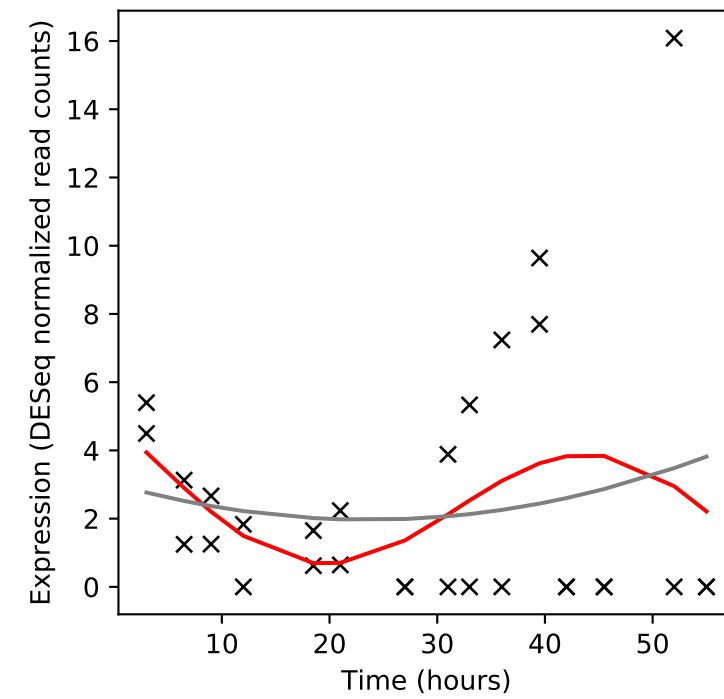
Rv0614/-



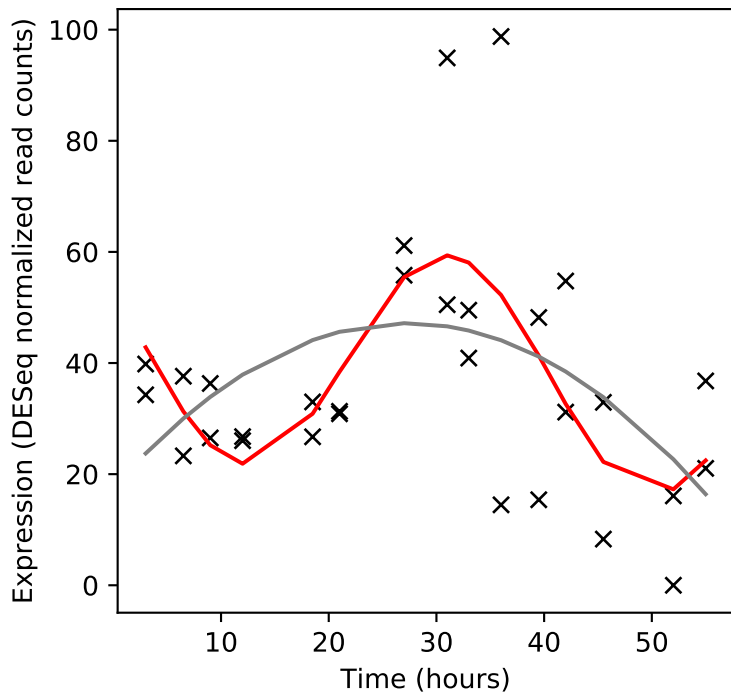
Rv0615/-



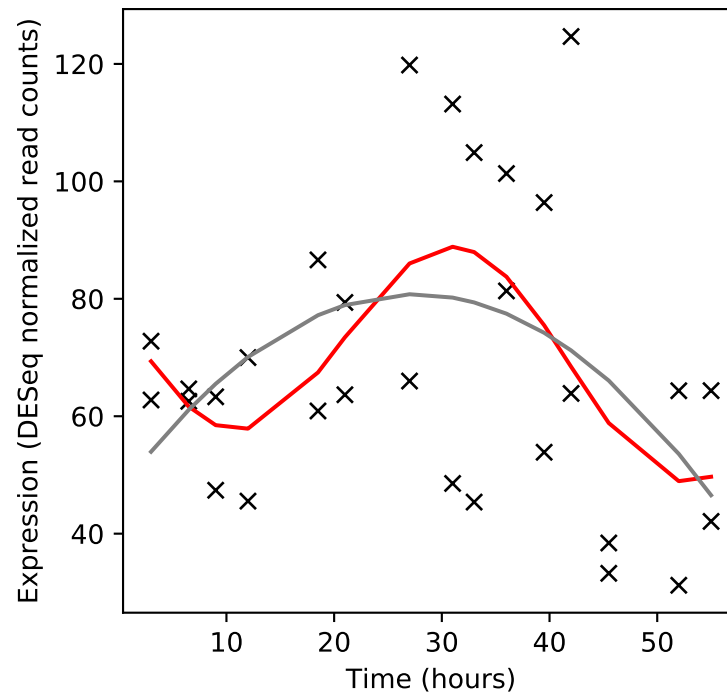
Rv0616c/-



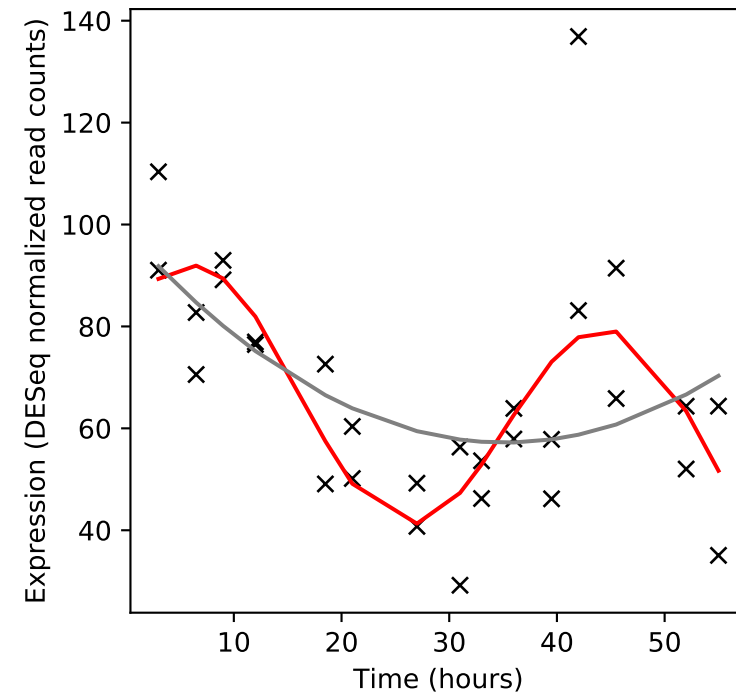
Rv0616A/vapB29



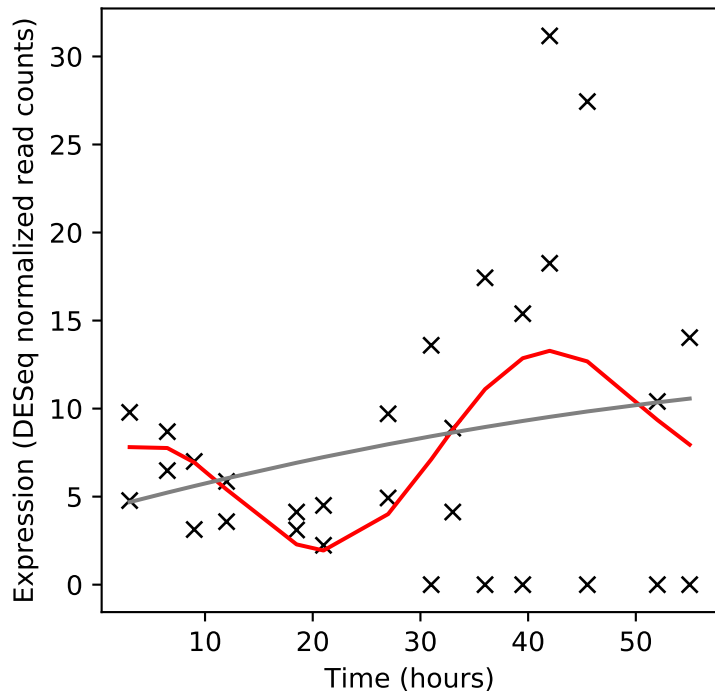
Rv0617/vapC29



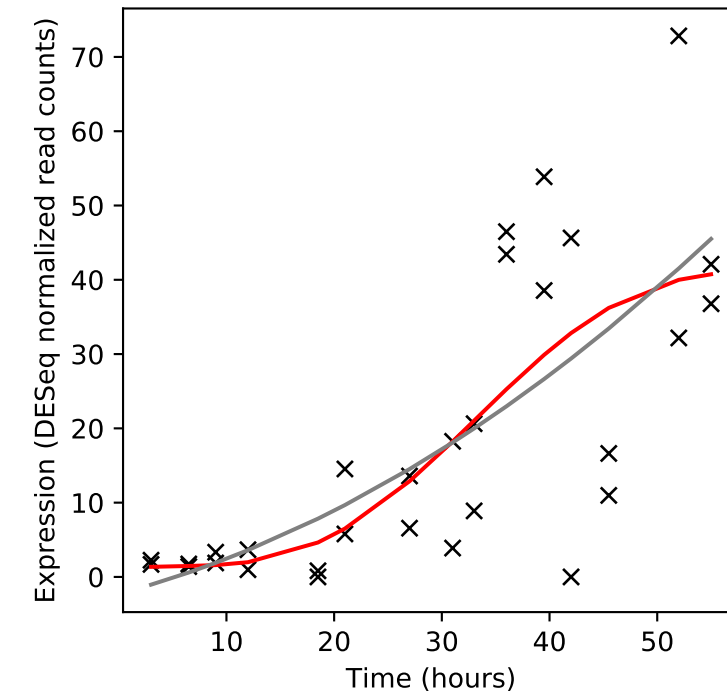
Rv0618/galTa



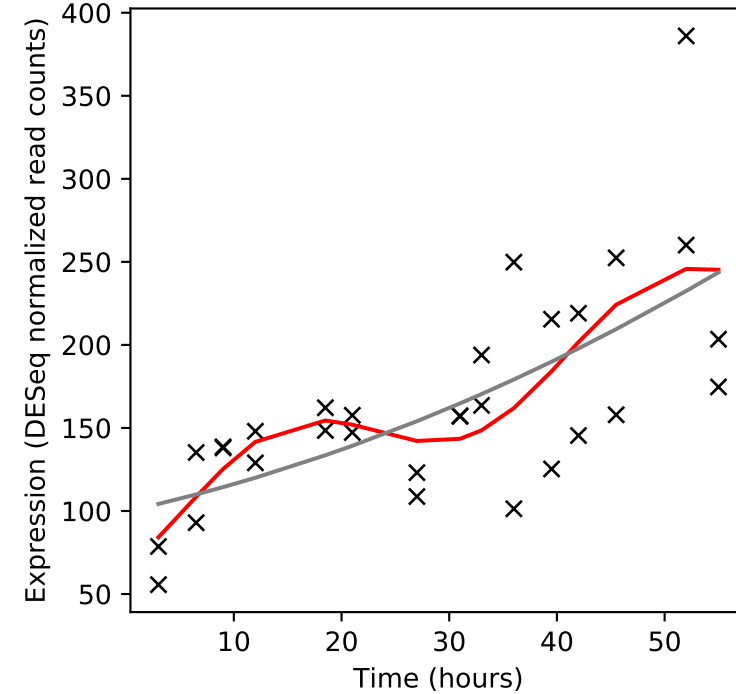
Rv0619/galTb



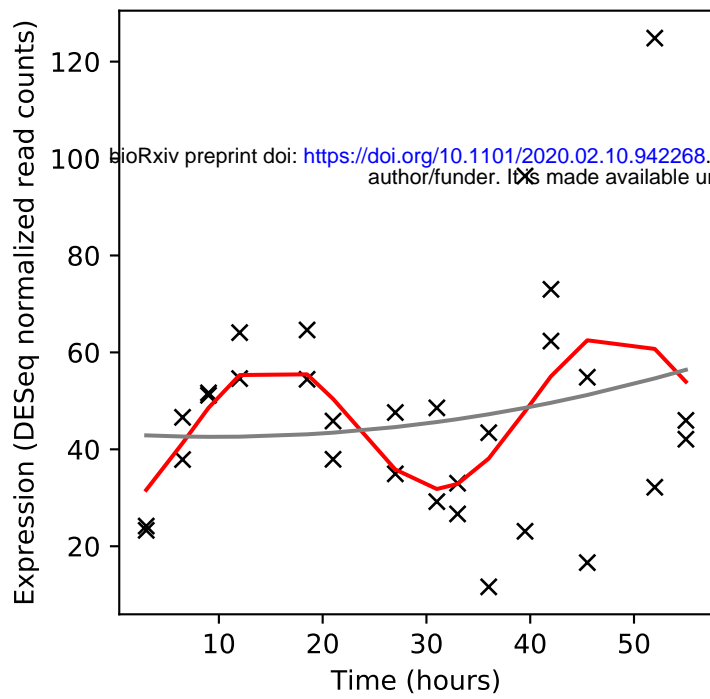
Rv0620/galK



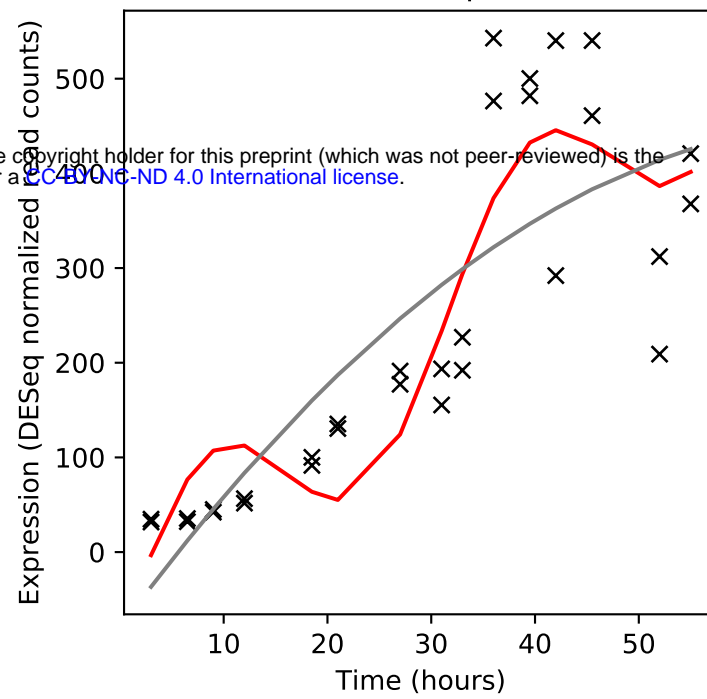
Rv0621/-



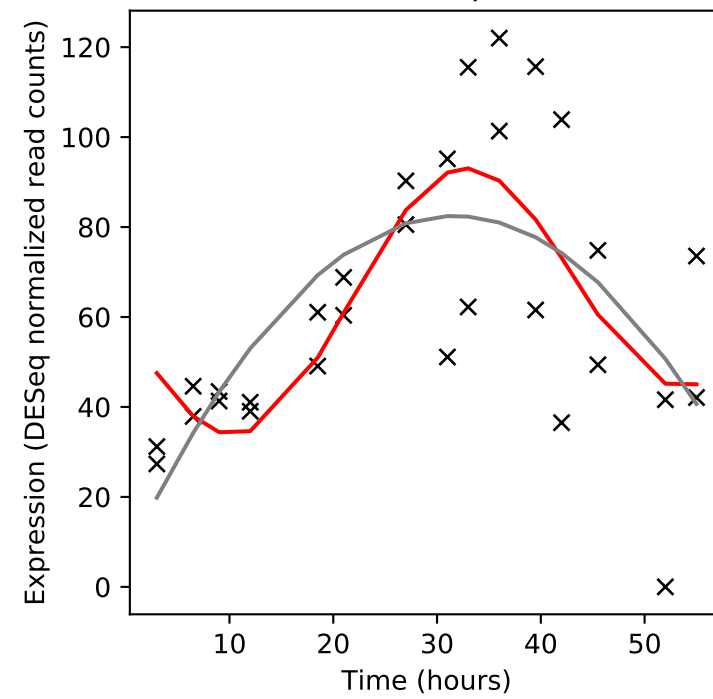
Rv0622/-



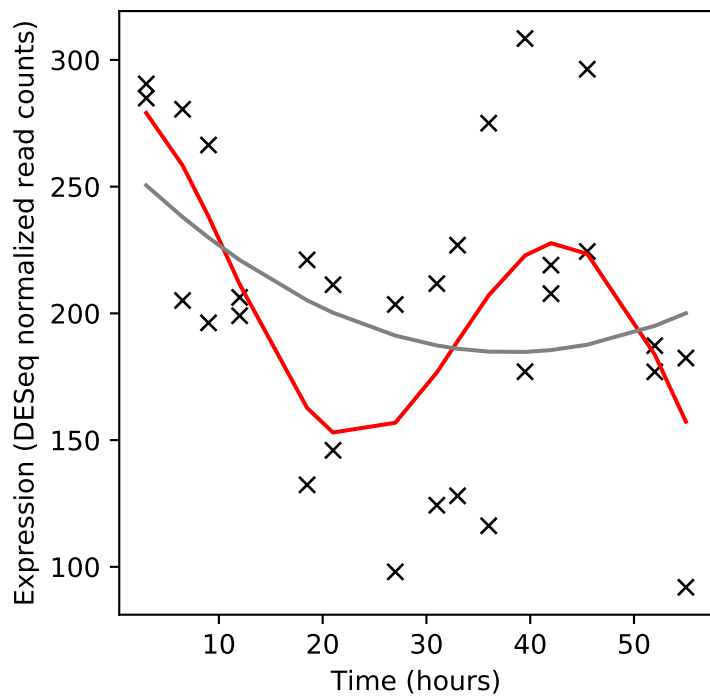
Rv0623/vapB30



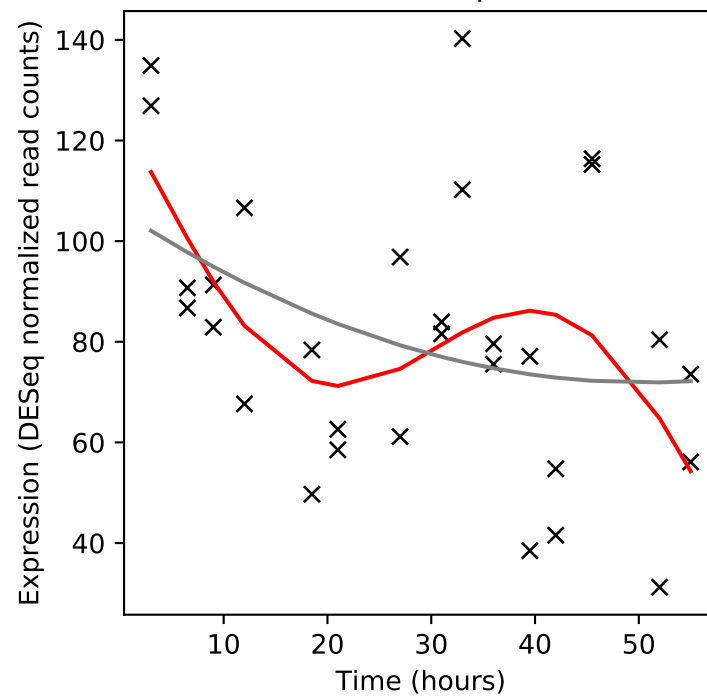
Rv0624/vapC30



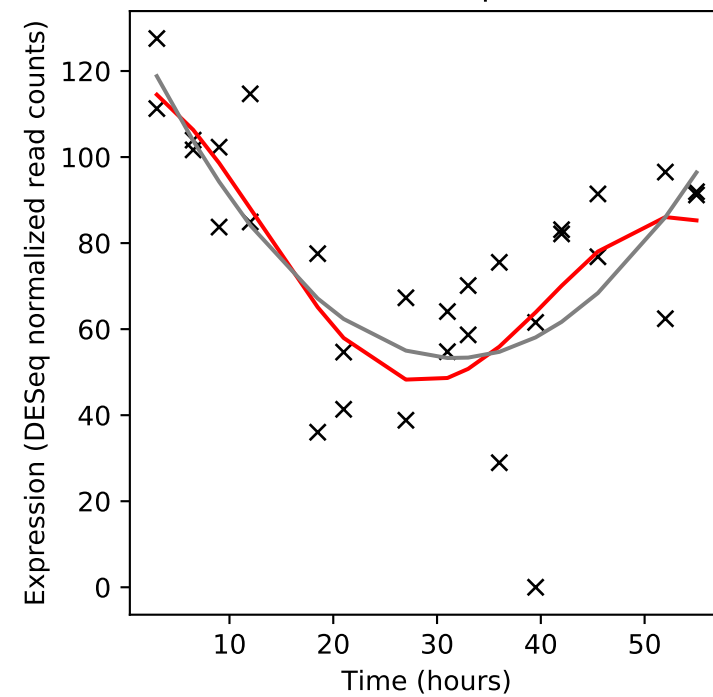
Rv0625c/-



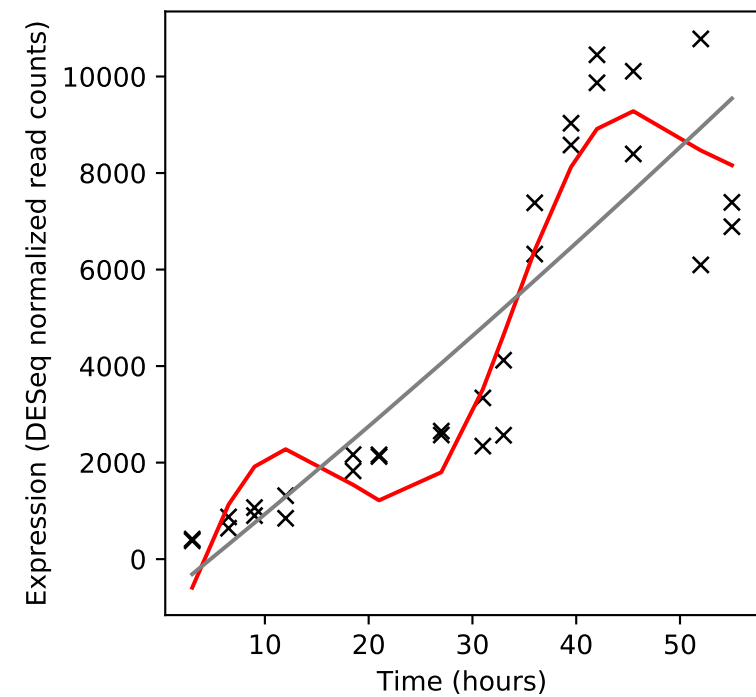
Rv0626/vapB5



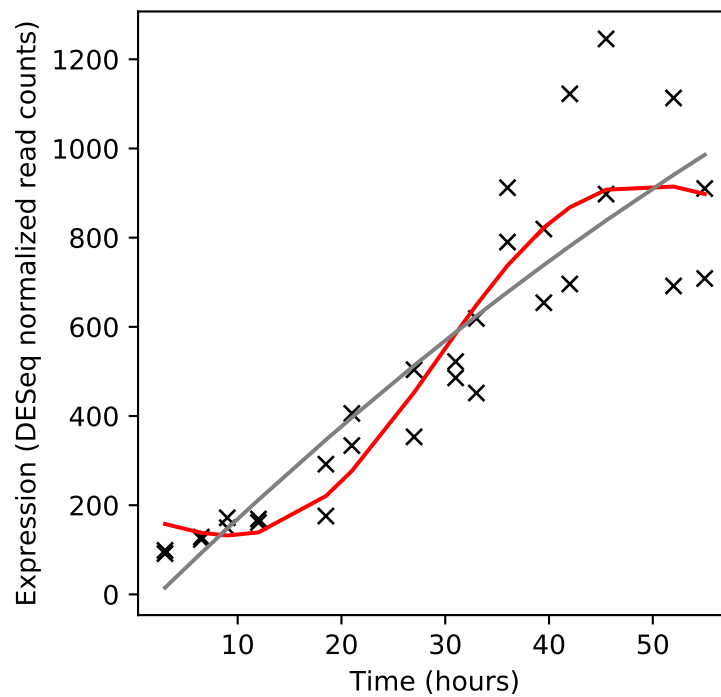
Rv0627/vapC5



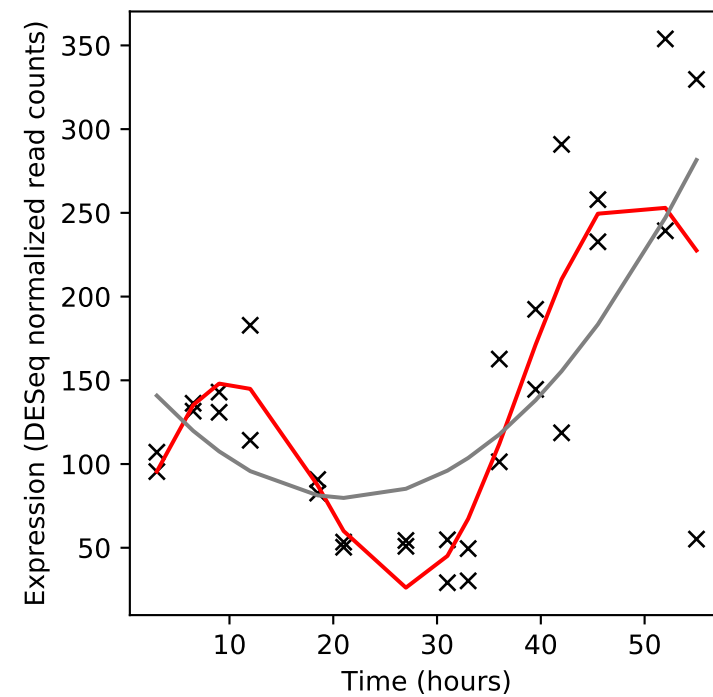
Rv0628c/-



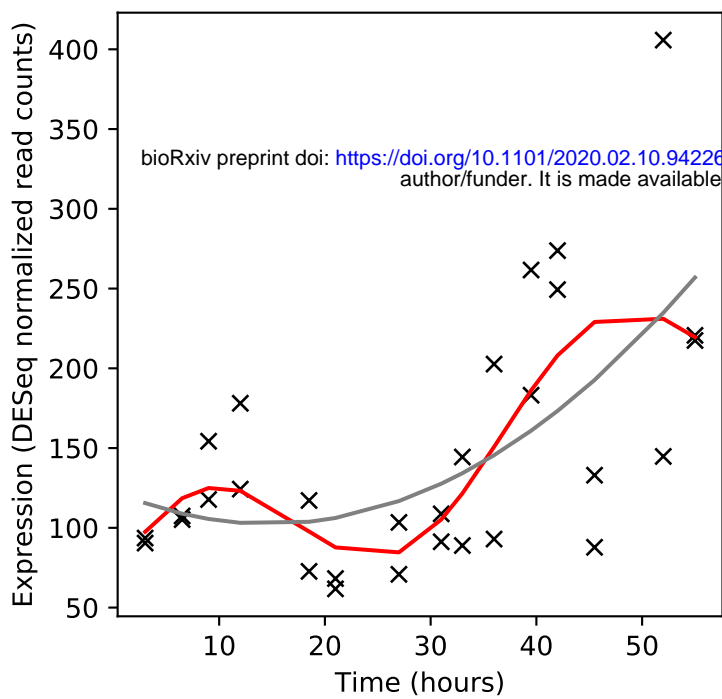
Rv0629c/recD



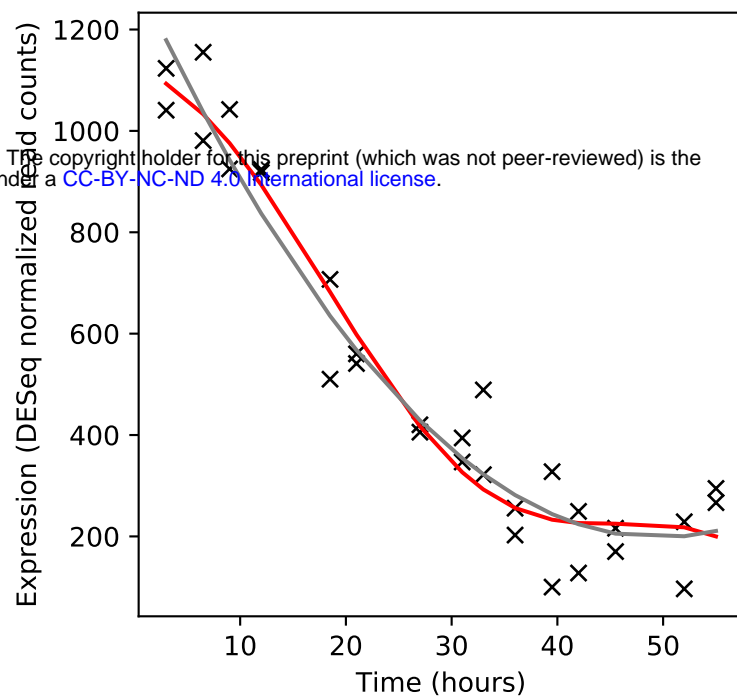
Rv0630c/recB



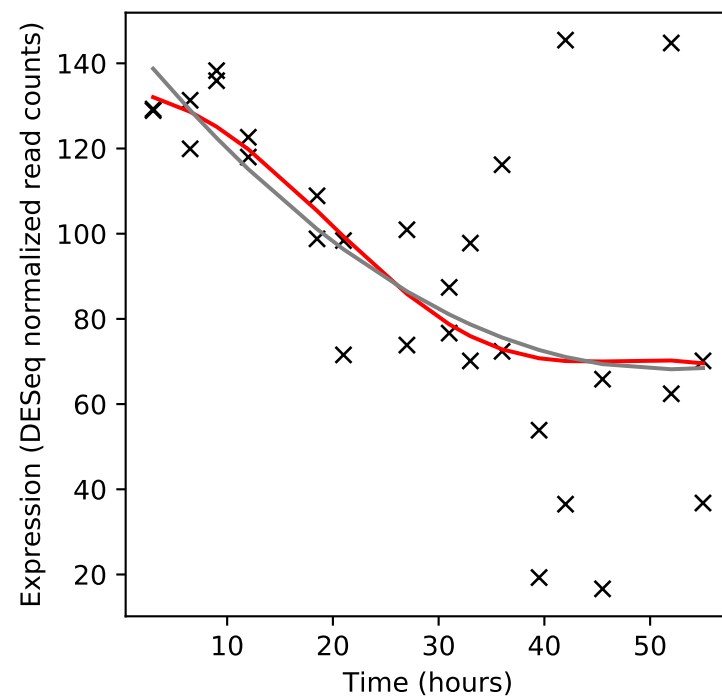
Rv0631c/recC



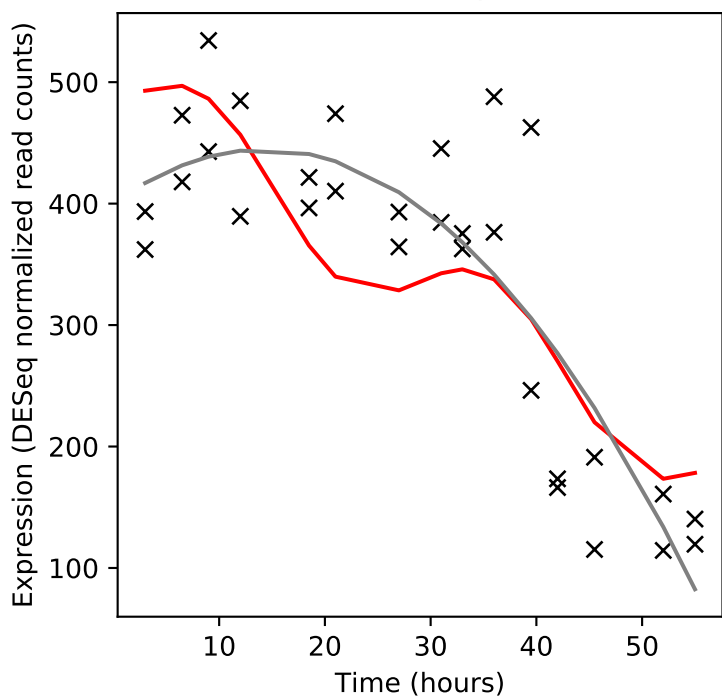
Rv0632c/echA3



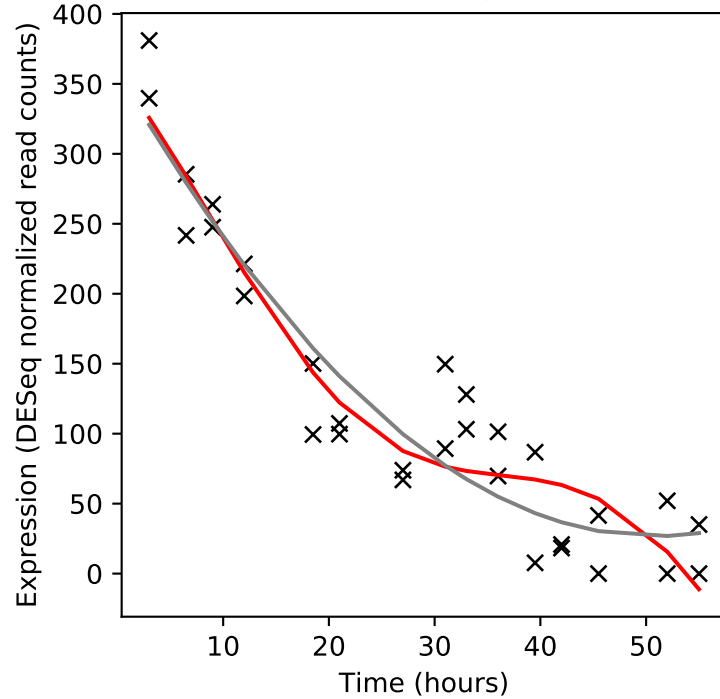
Rv0633c/-



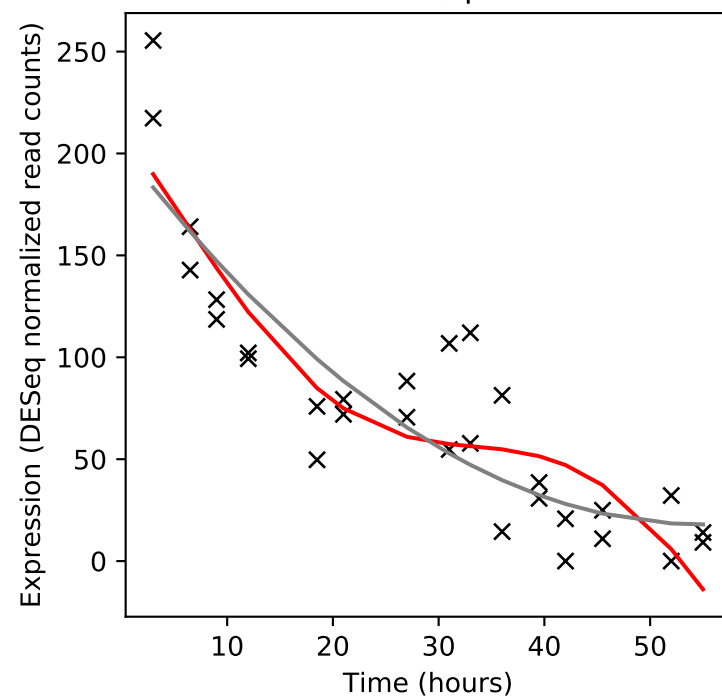
Rv0634c/-



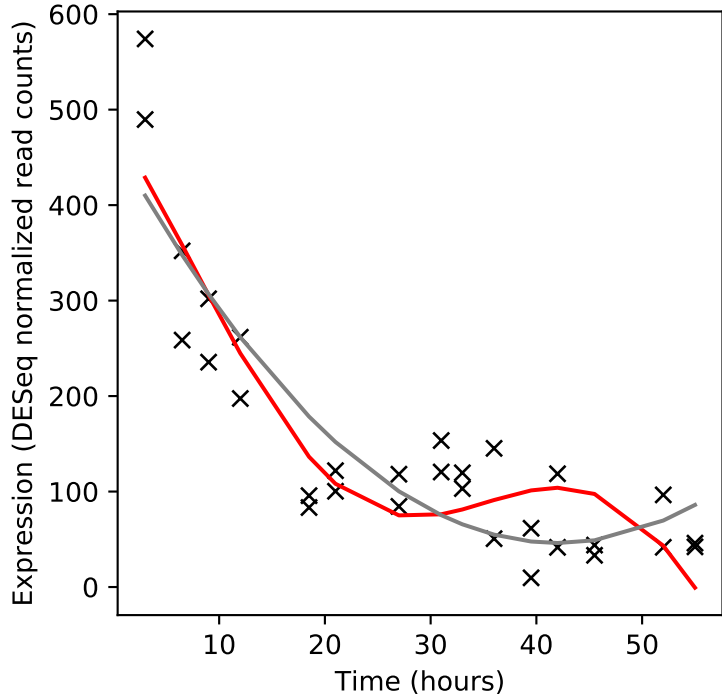
Rv0634A/-



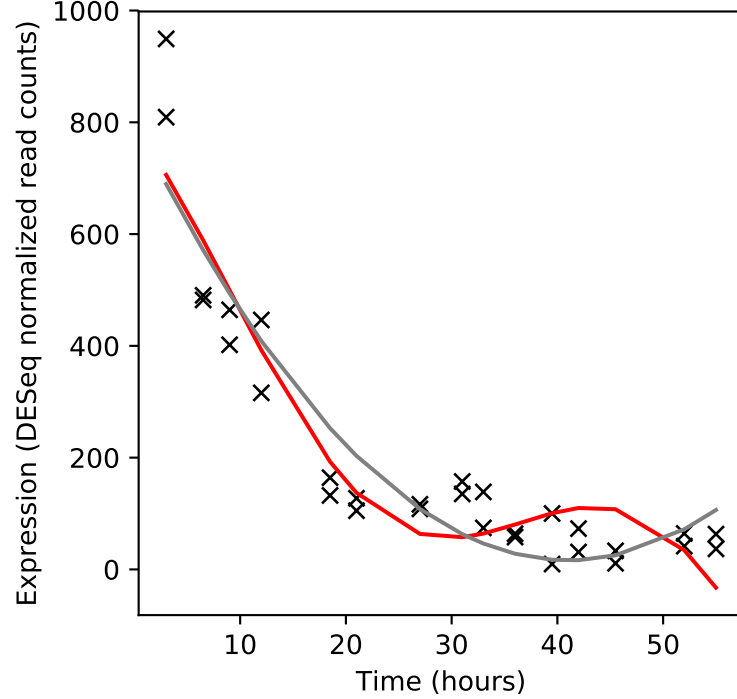
Rv0634B/rpmG2



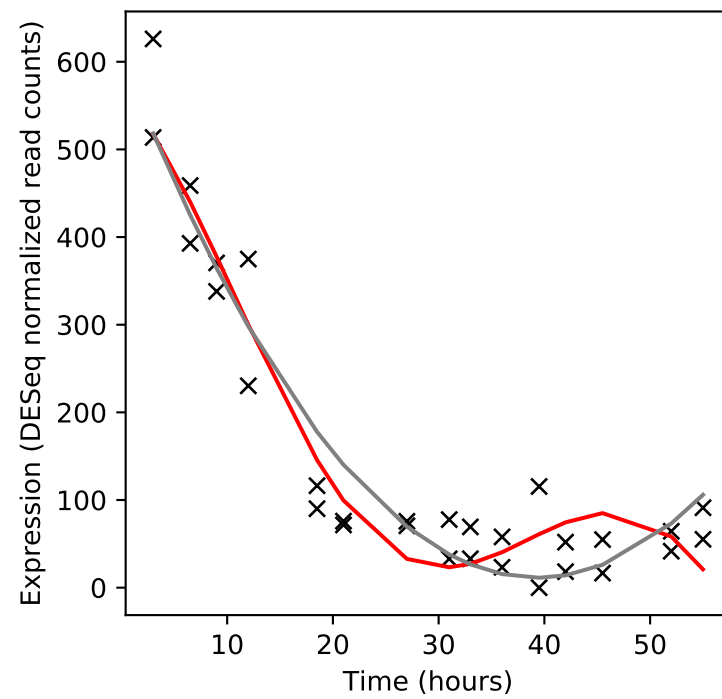
Rv0635/hadA



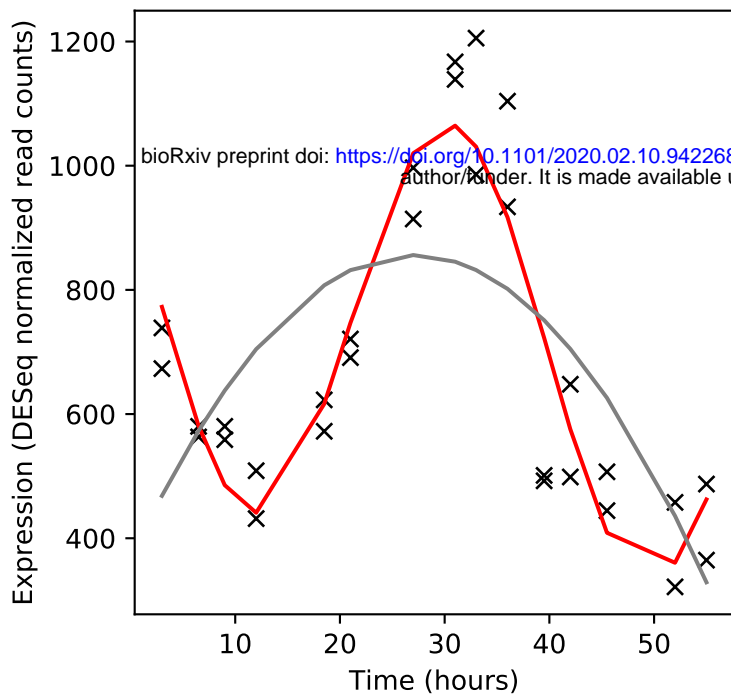
Rv0636/hadB



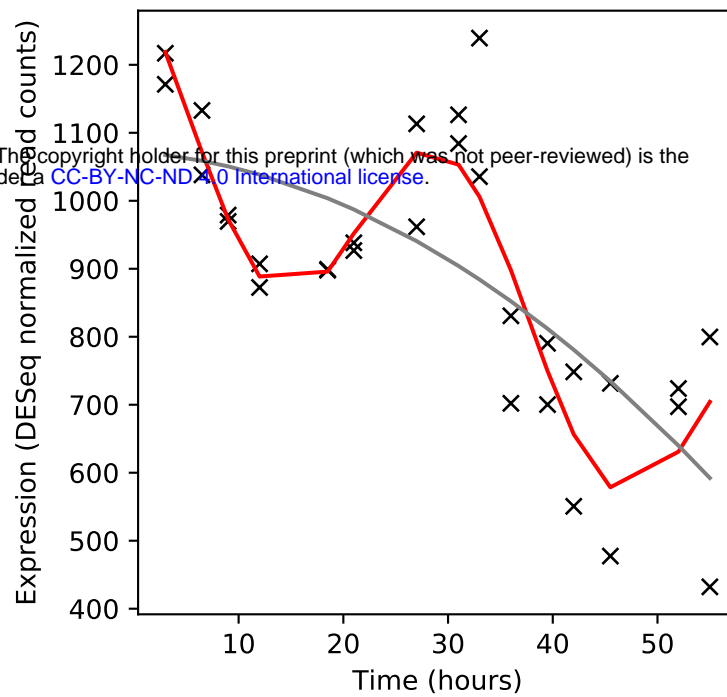
Rv0637/hadC



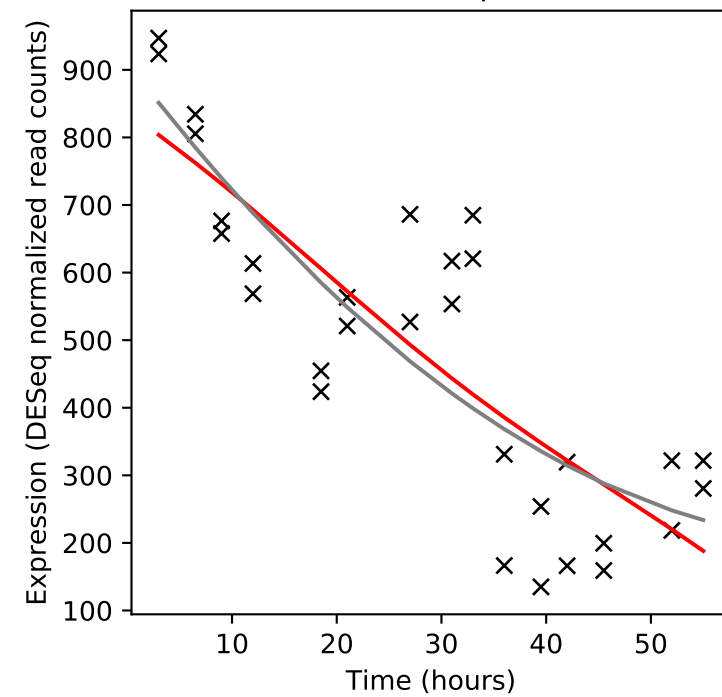
Rv0638/secE1



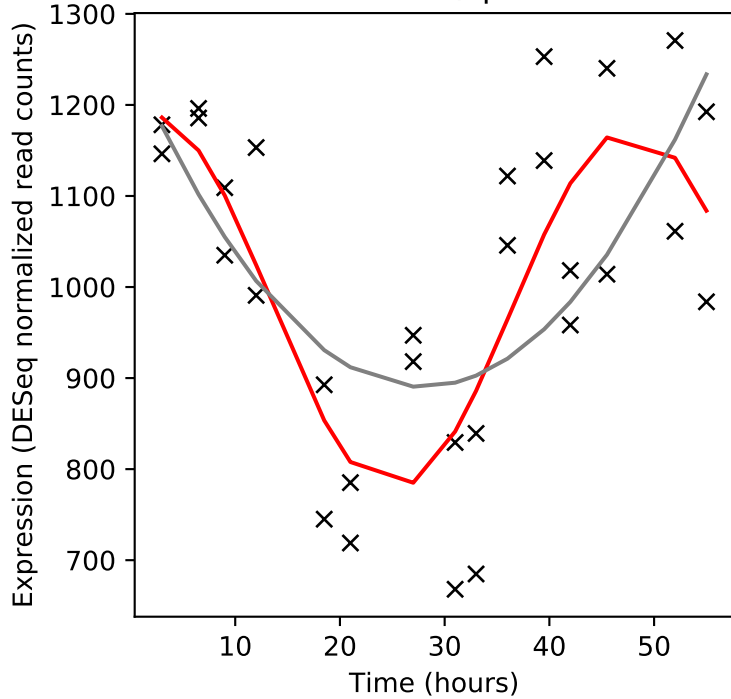
Rv0639/nusG



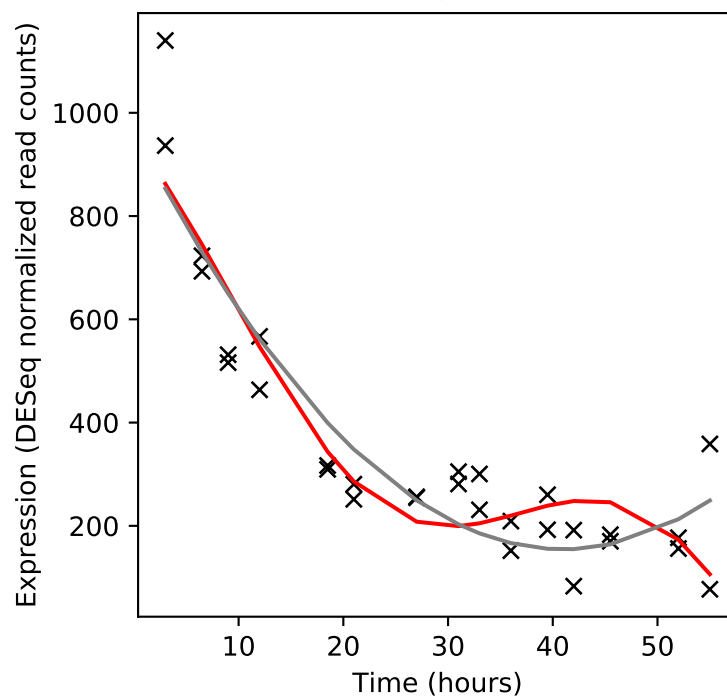
Rv0640/rplK



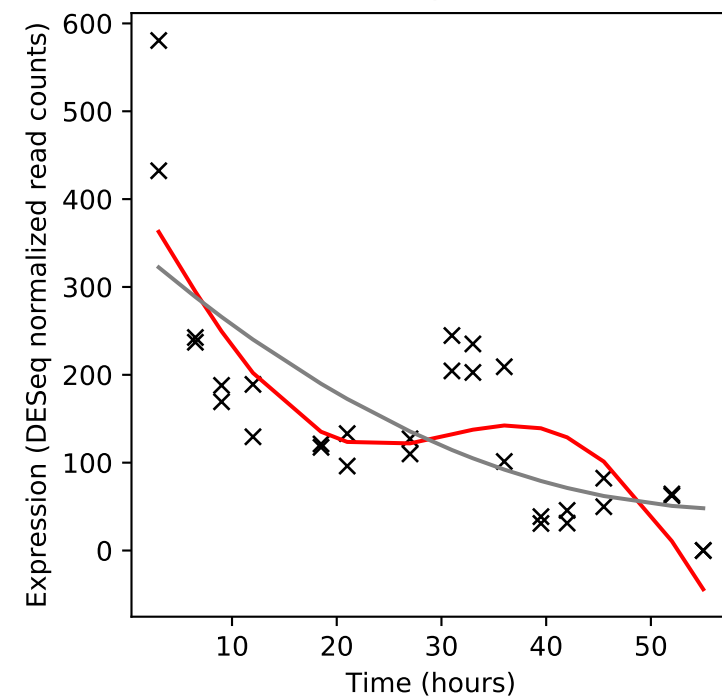
Rv0641/rplA



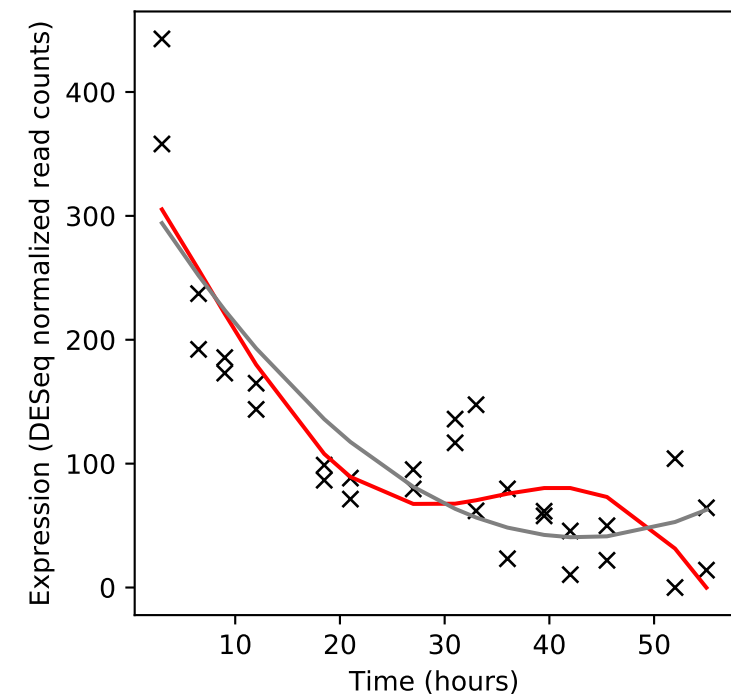
Rv0642c/mmaA4



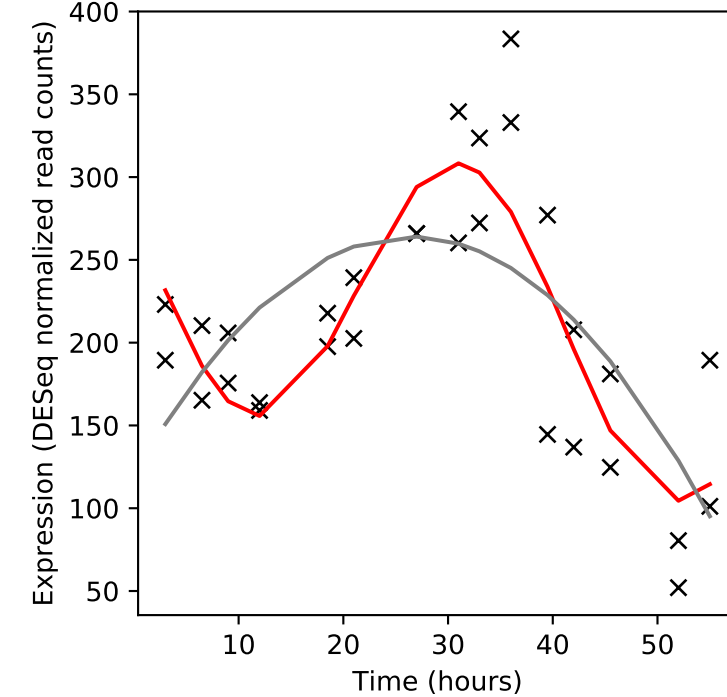
Rv0643c/mmaA3



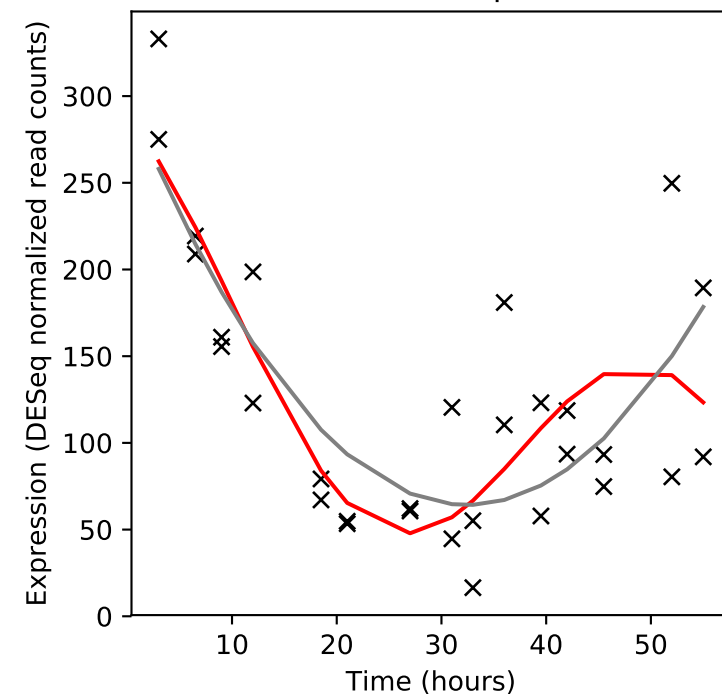
Rv0644c/mmaA2



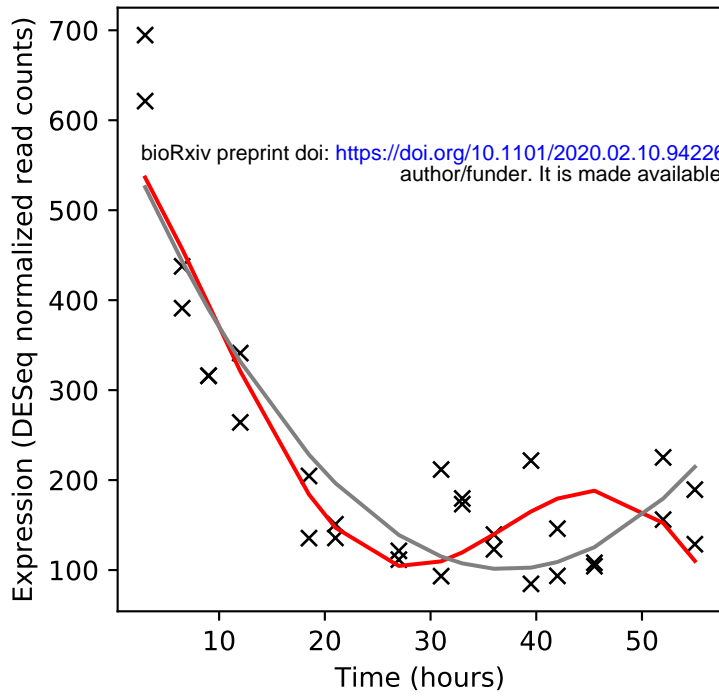
Rv0645c/mmaA1



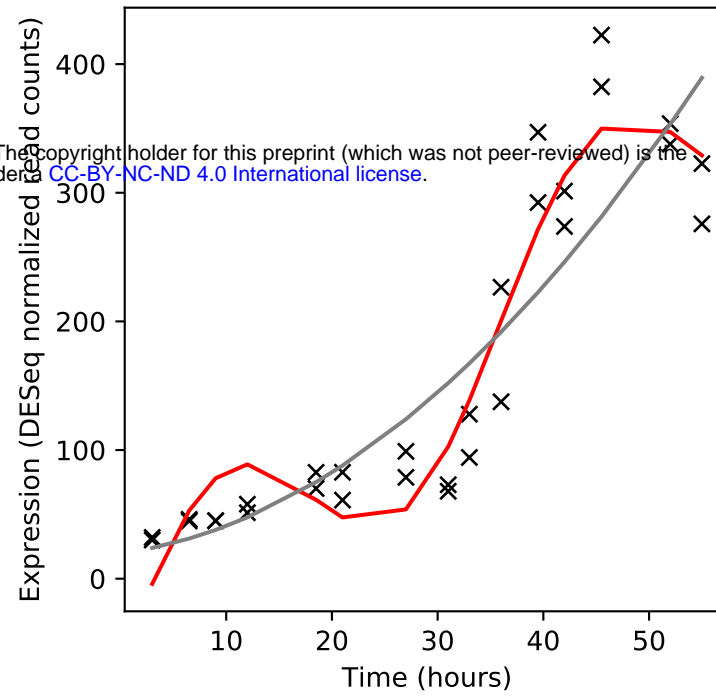
Rv0646c/lipG



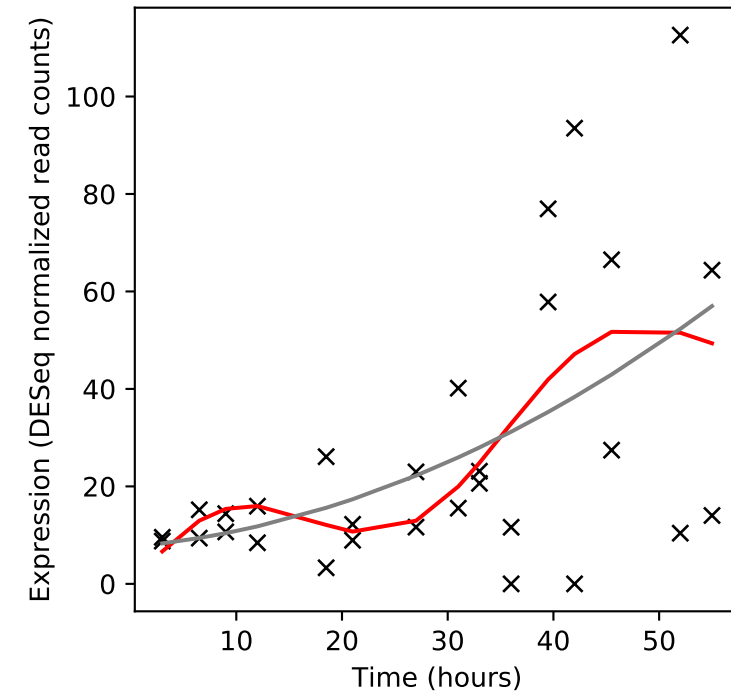
Rv0647c/-



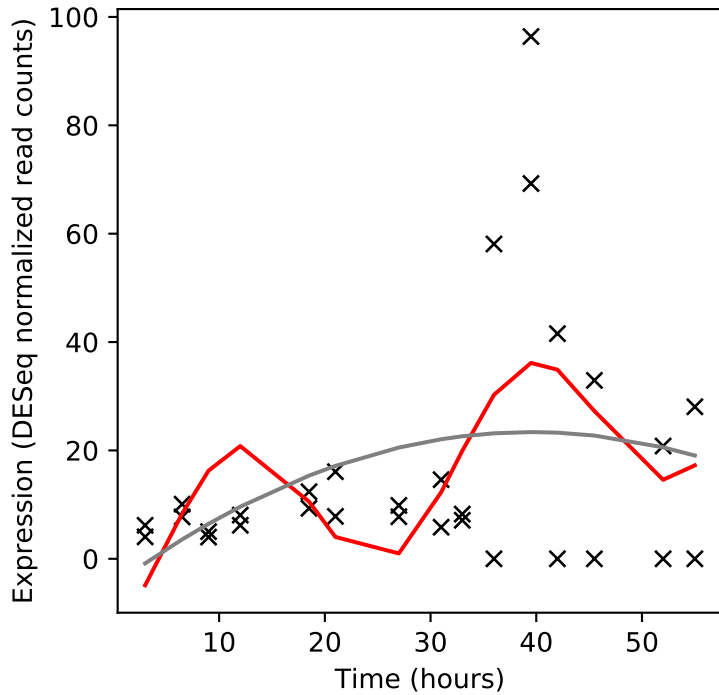
Rv0648/-



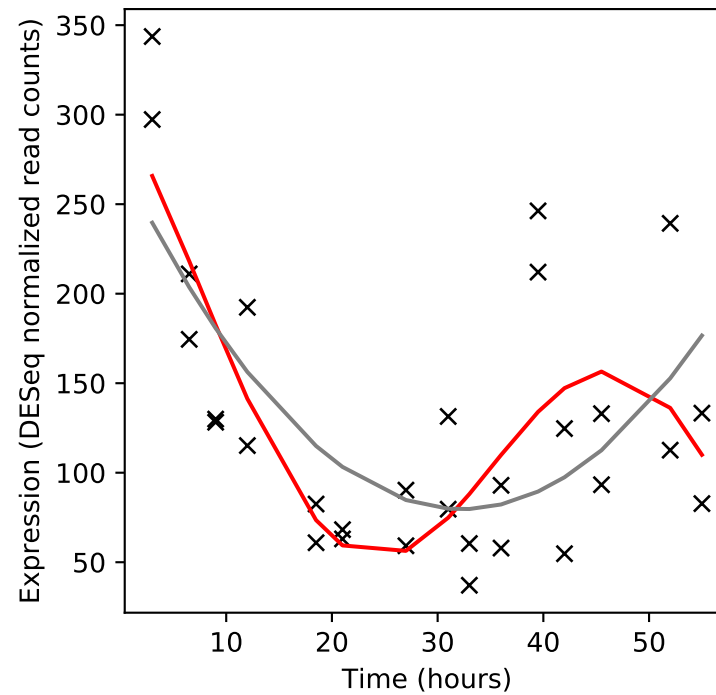
Rv0649/fabD2



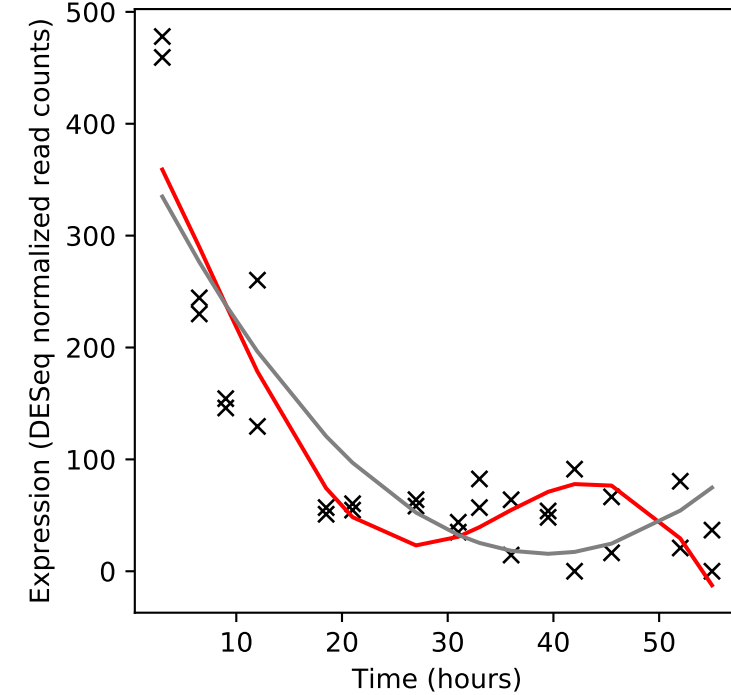
Rv0650/-



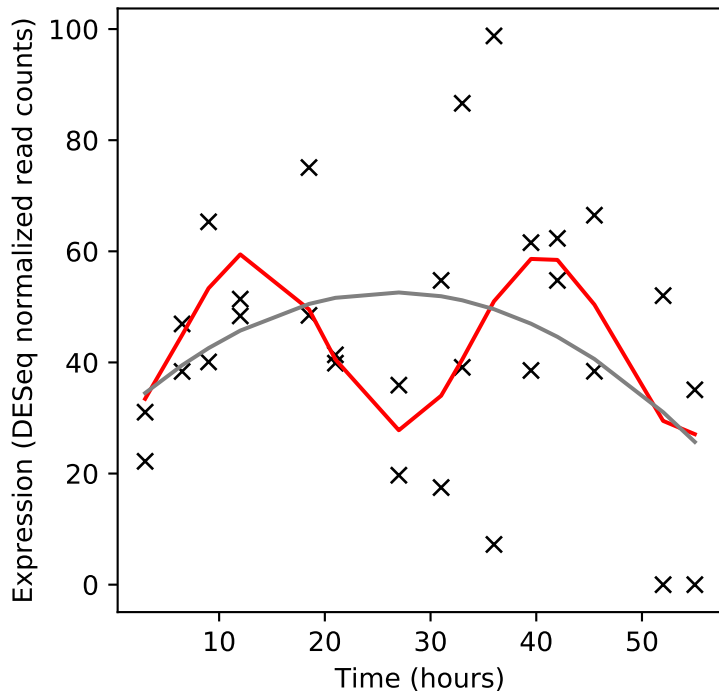
Rv0651/rplJ



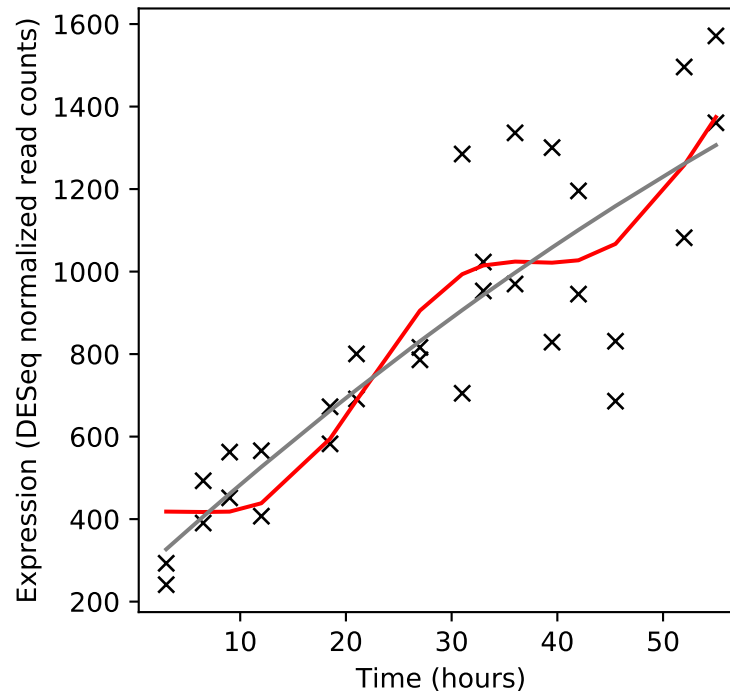
Rv0652/rplL



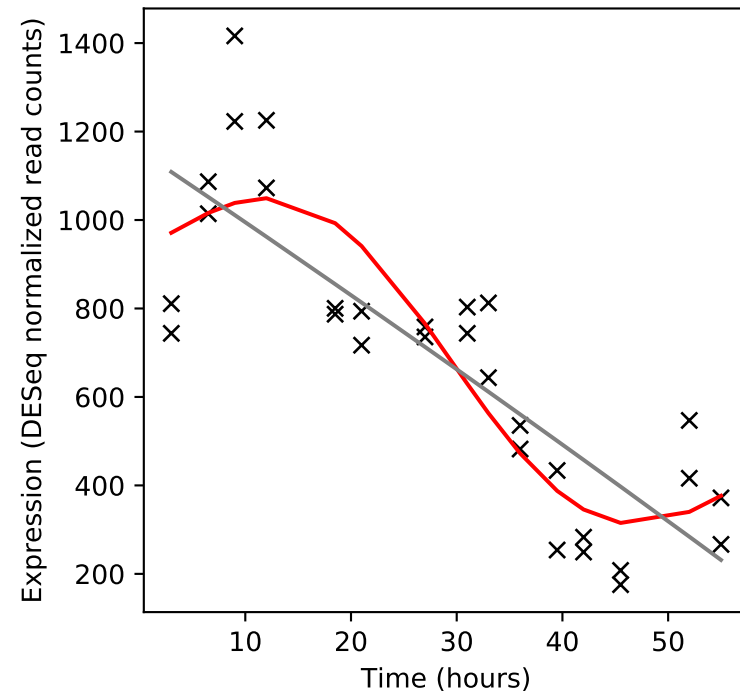
Rv0653c/-



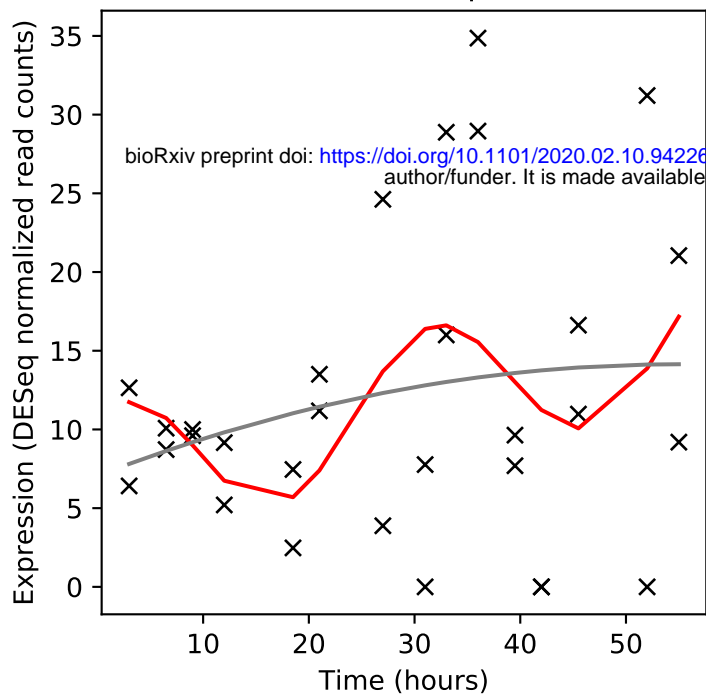
Rv0654/-



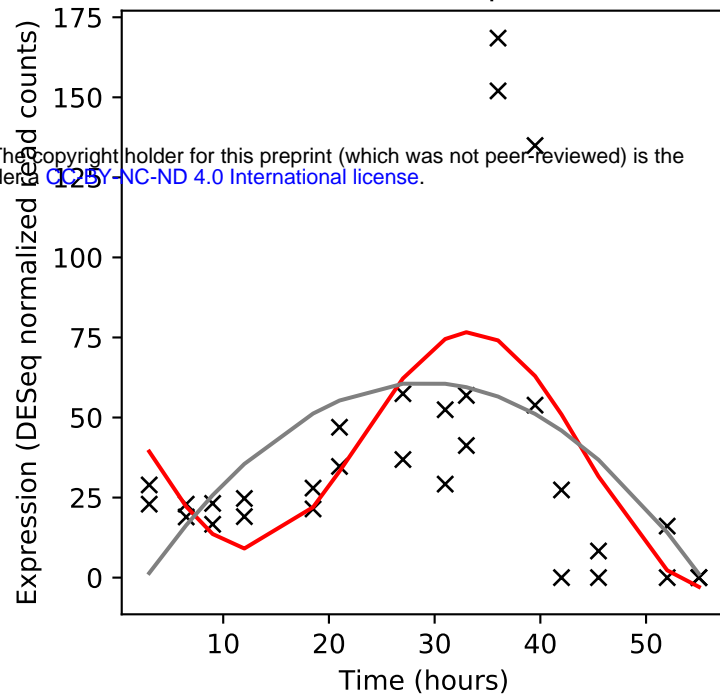
Rv0655/mkl



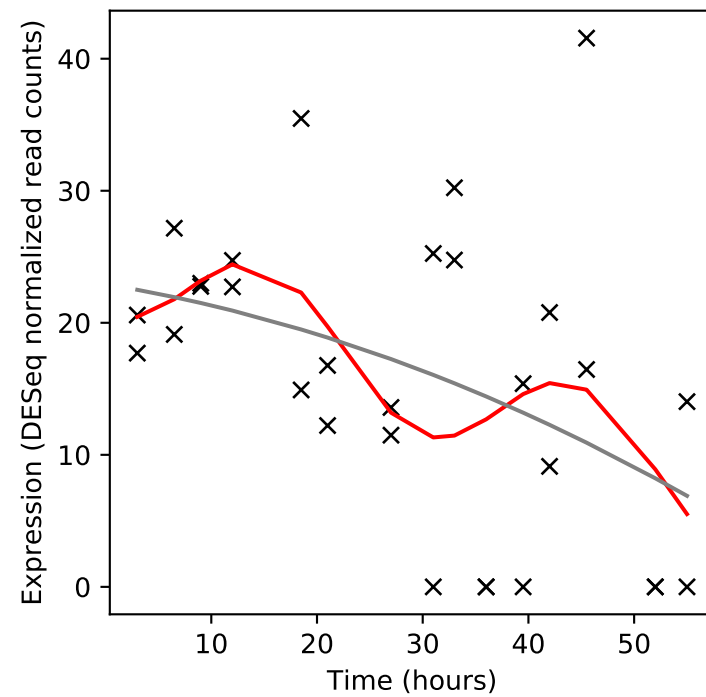
Rv0656c/vapC6



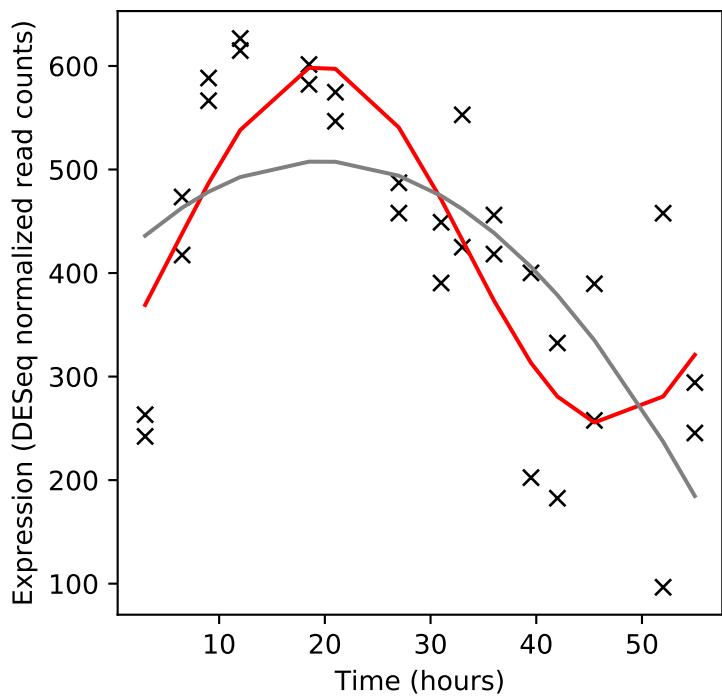
Rv0657c/vapB6



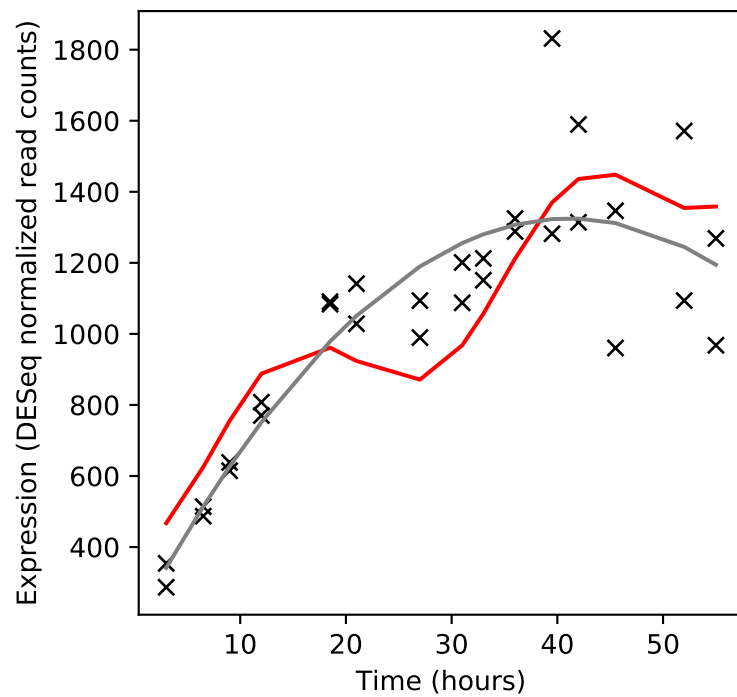
Rv0658c/-



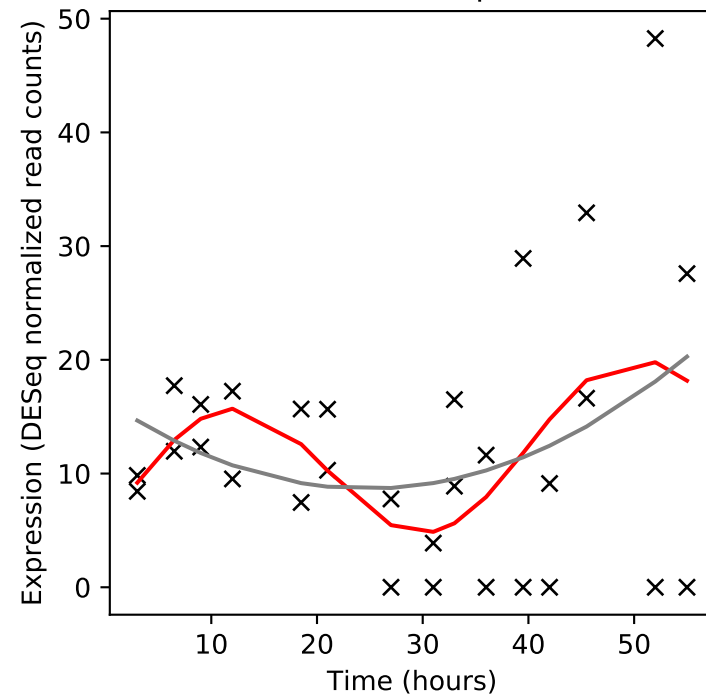
Rv0659c/mazF2



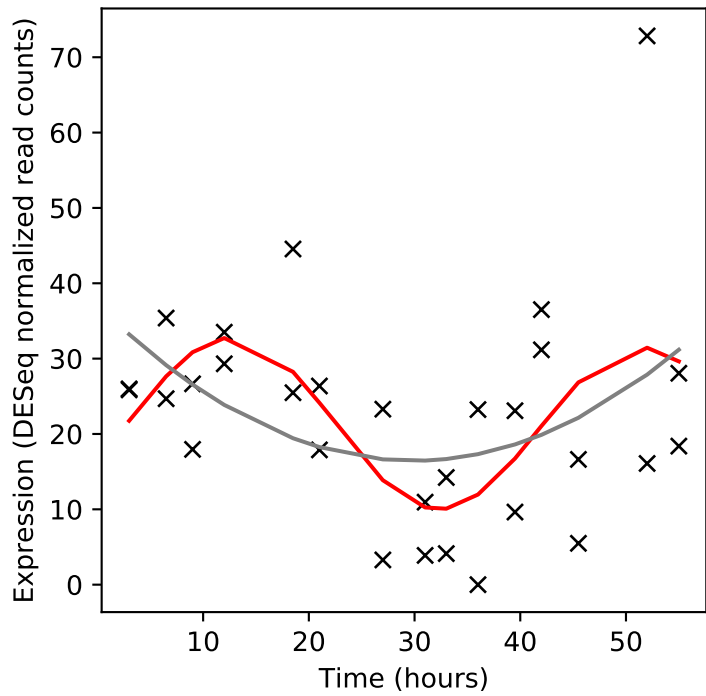
Rv0660c/mazE2



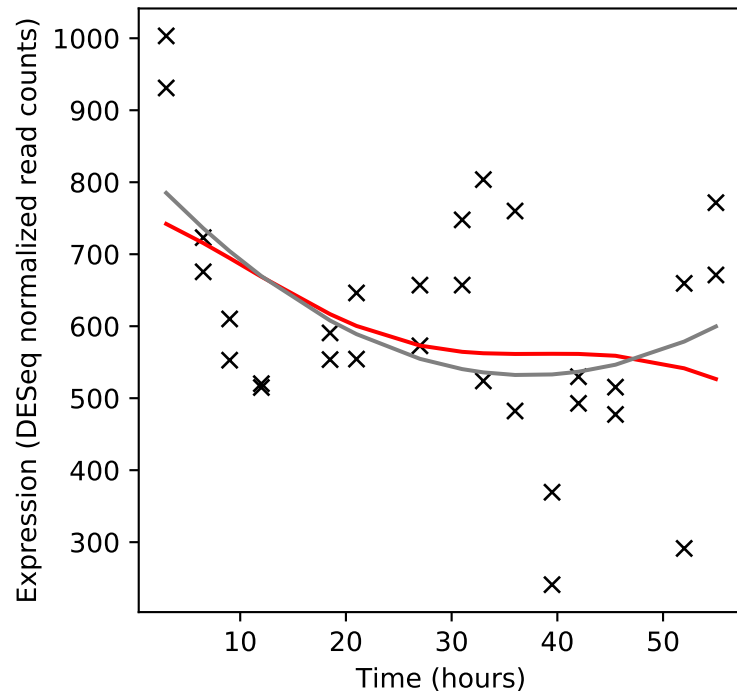
Rv0661c/vapC7



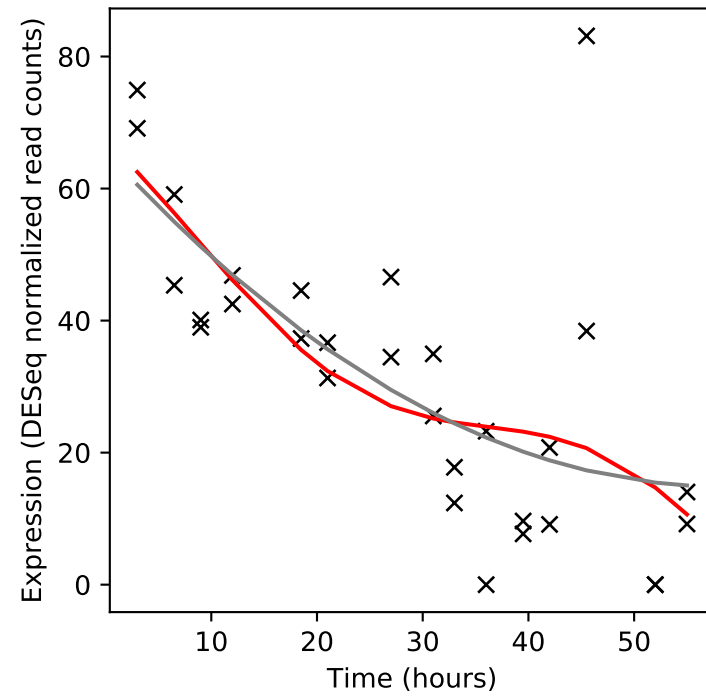
Rv0662c/vapB7



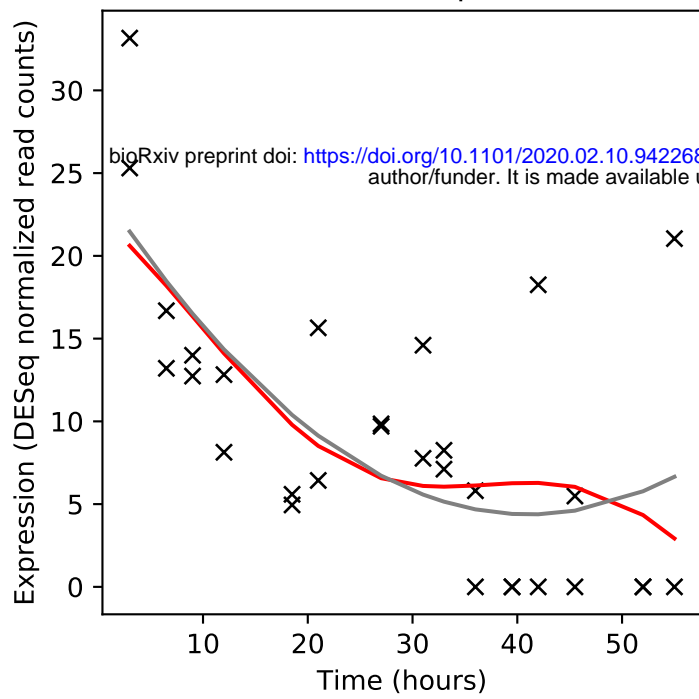
Rv0663/atsD



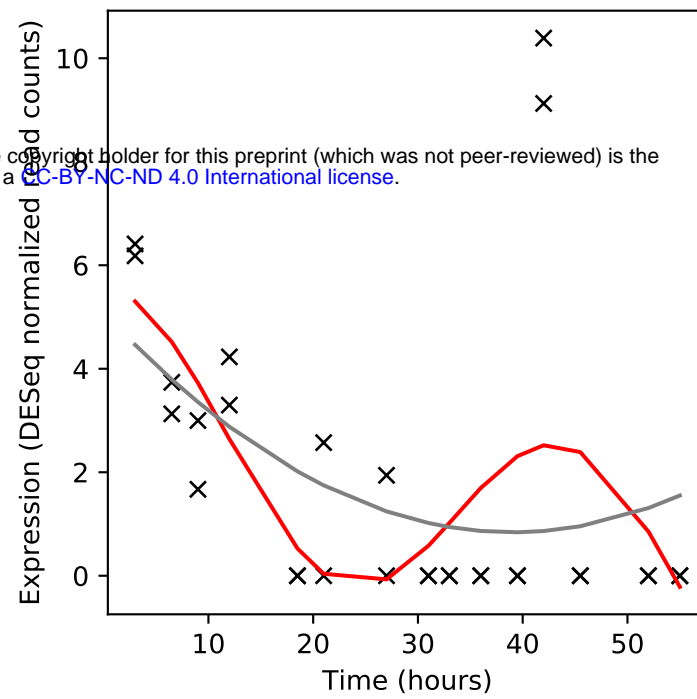
Rv0664/vapB8



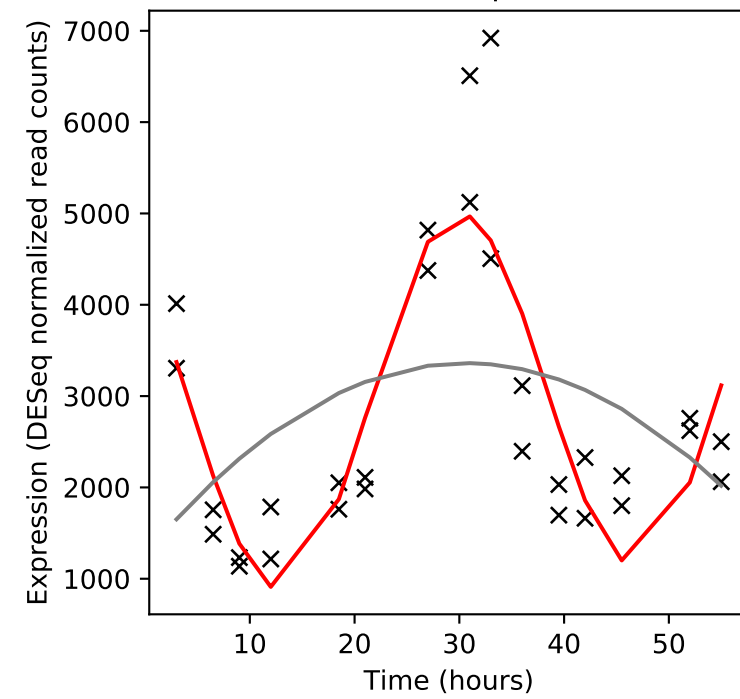
Rv0665/vapC8



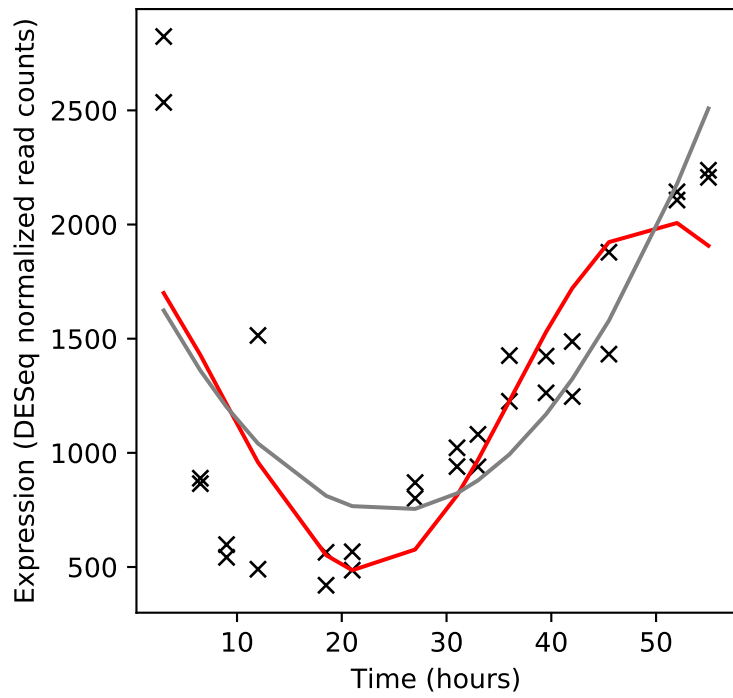
Rv0666/-



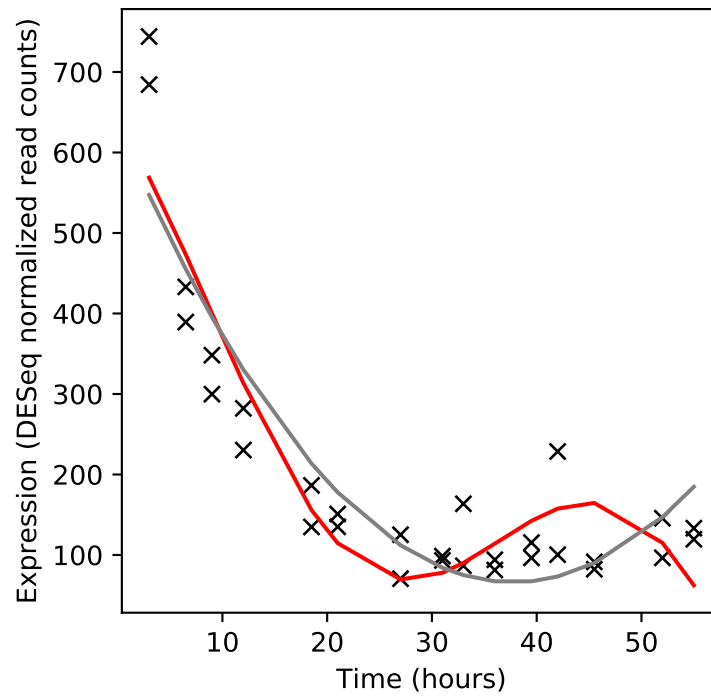
Rv0667/rpoB



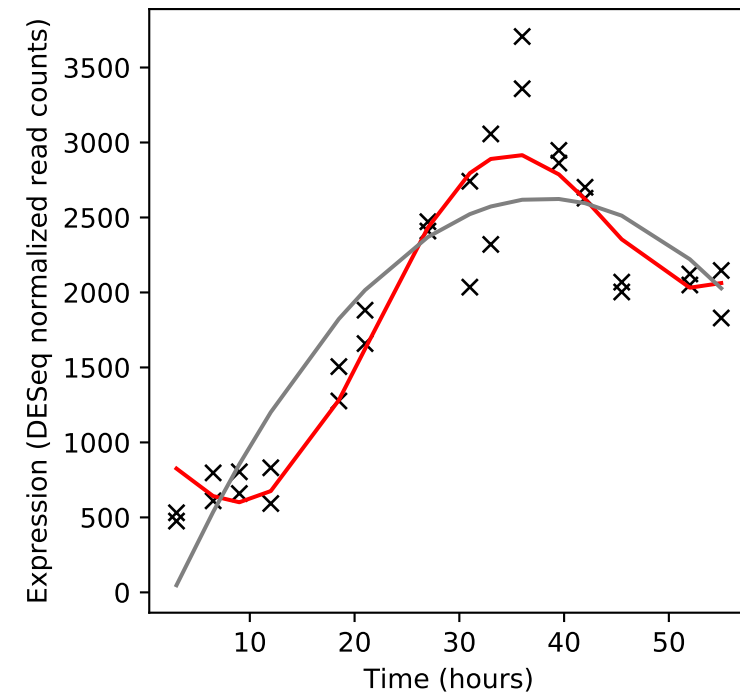
Rv0668/rpoC



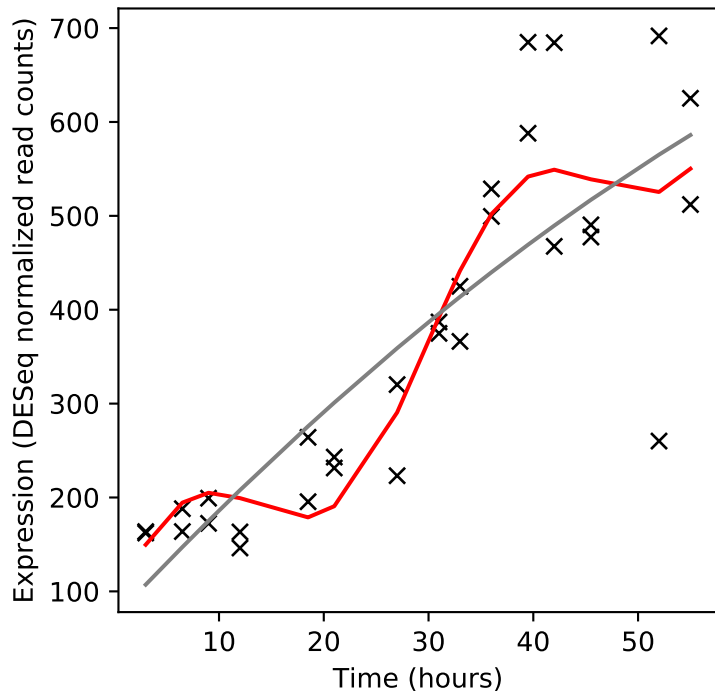
Rv0669c/-



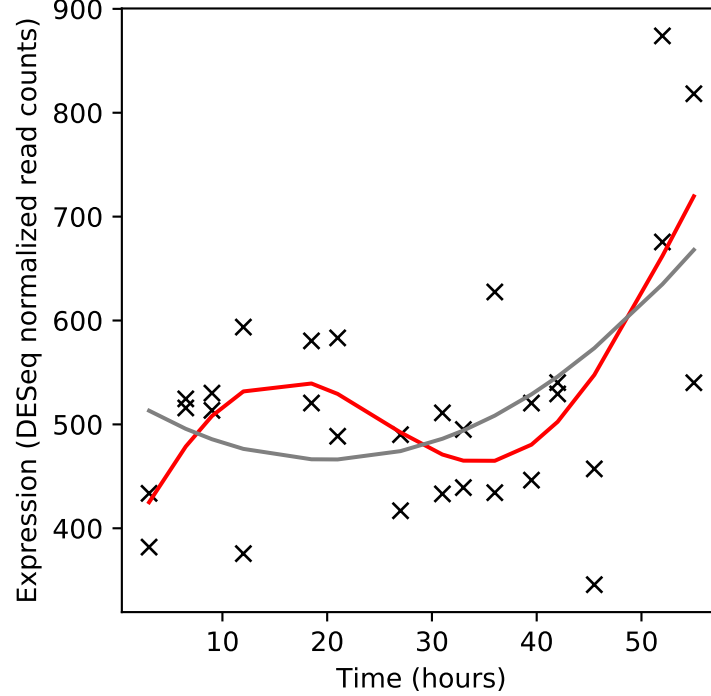
Rv0670/end



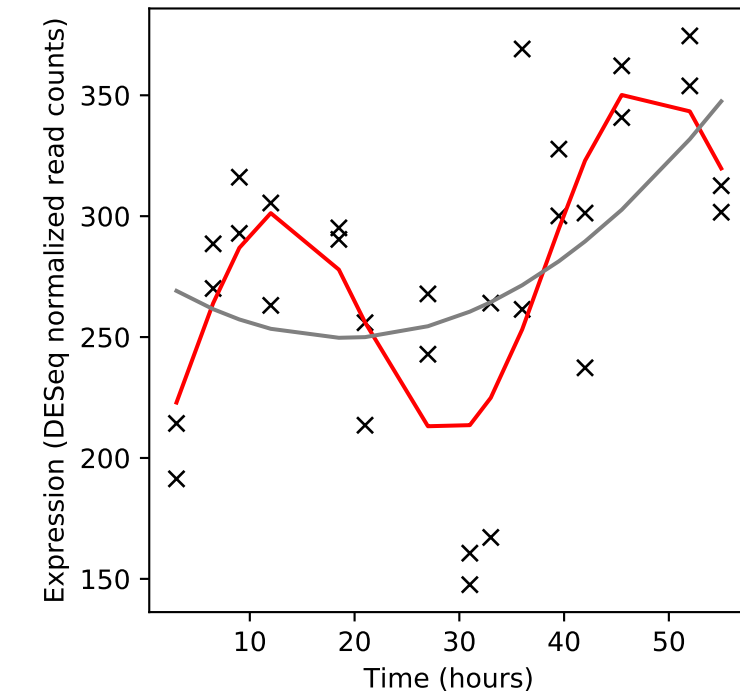
Rv0671/lpqP



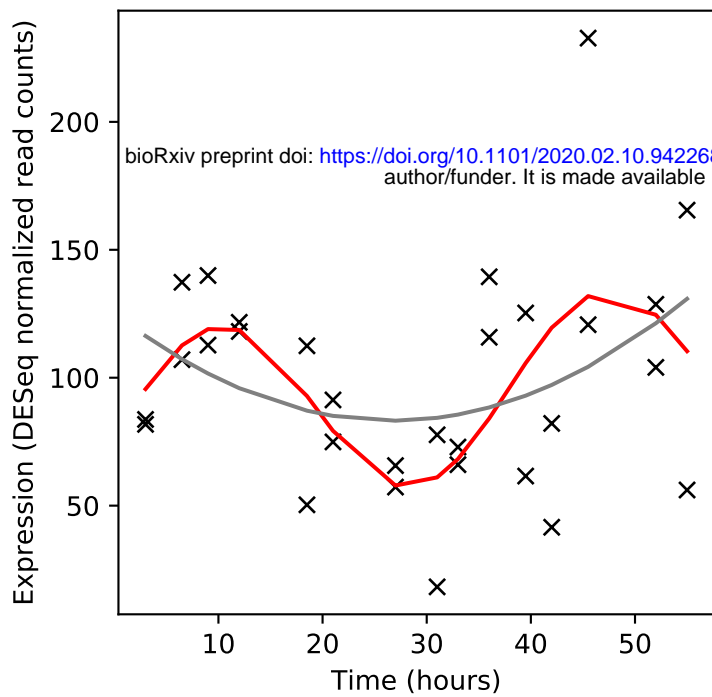
Rv0672/fadE8



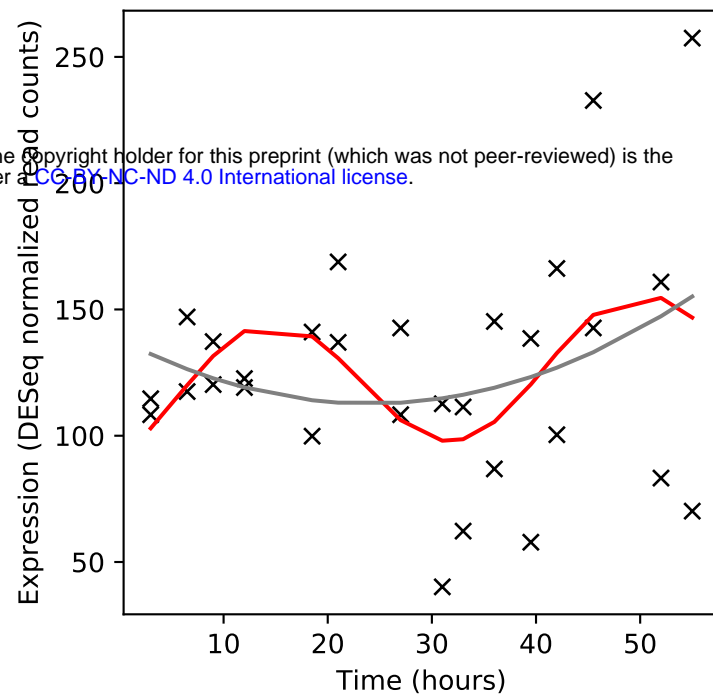
Rv0673/echA4



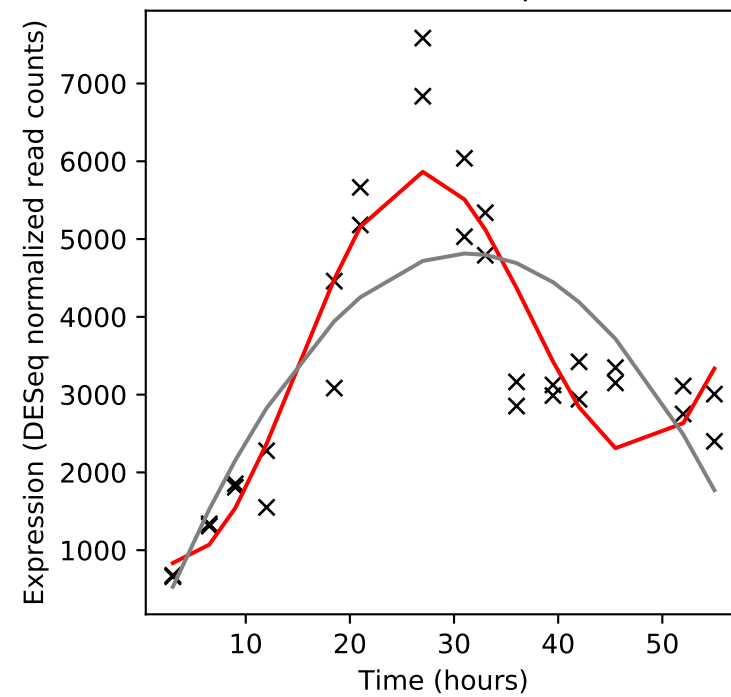
Rv0674/-



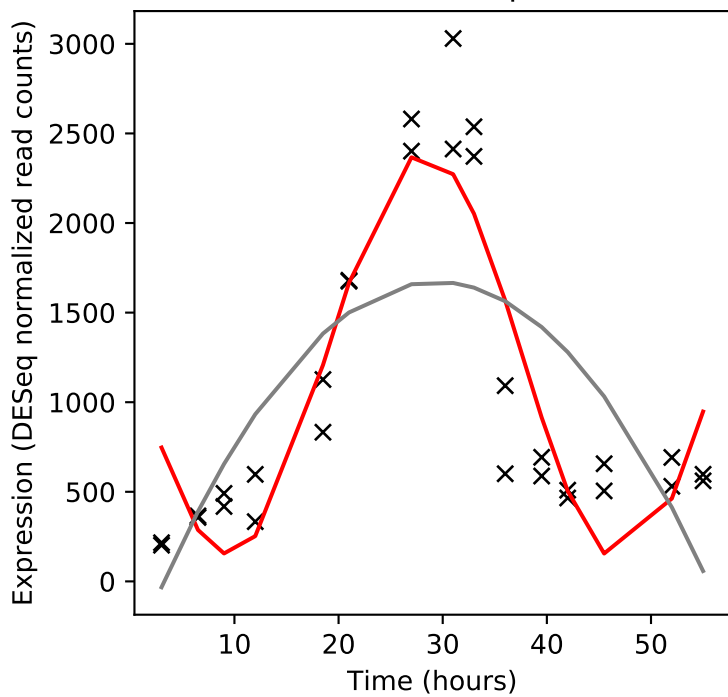
Rv0675/echA5



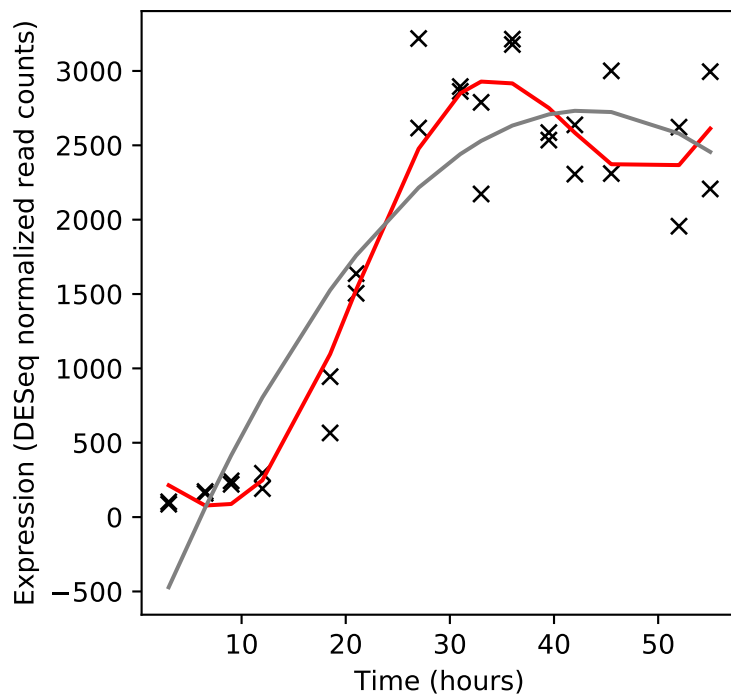
Rv0676c/mmpL5



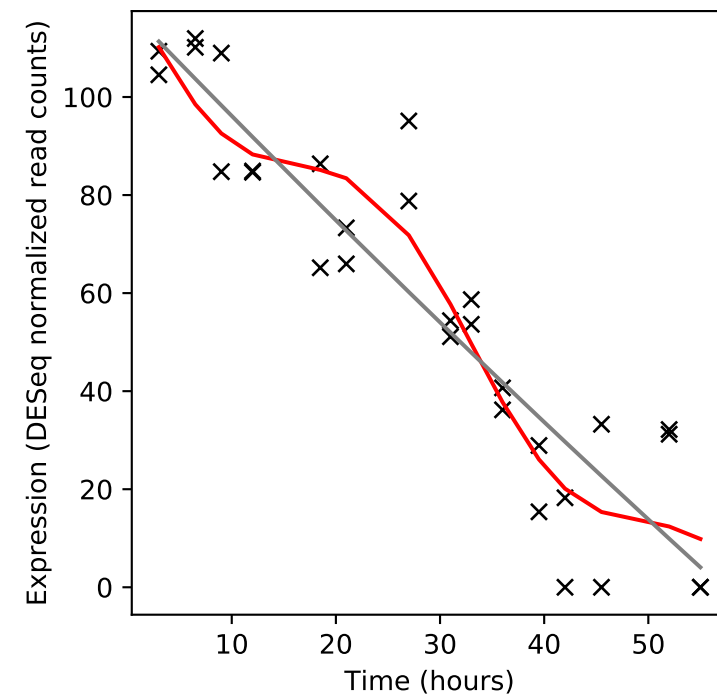
Rv0677c/mmpS5



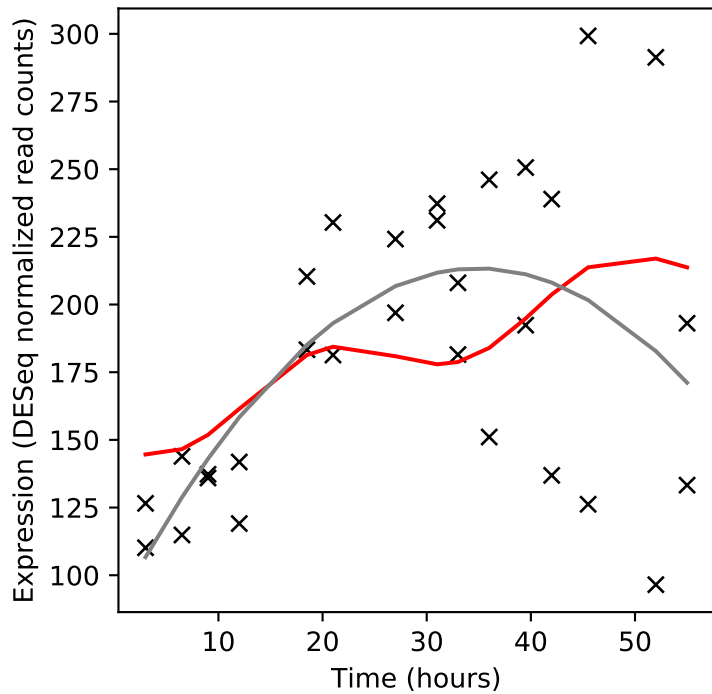
Rv0678/-



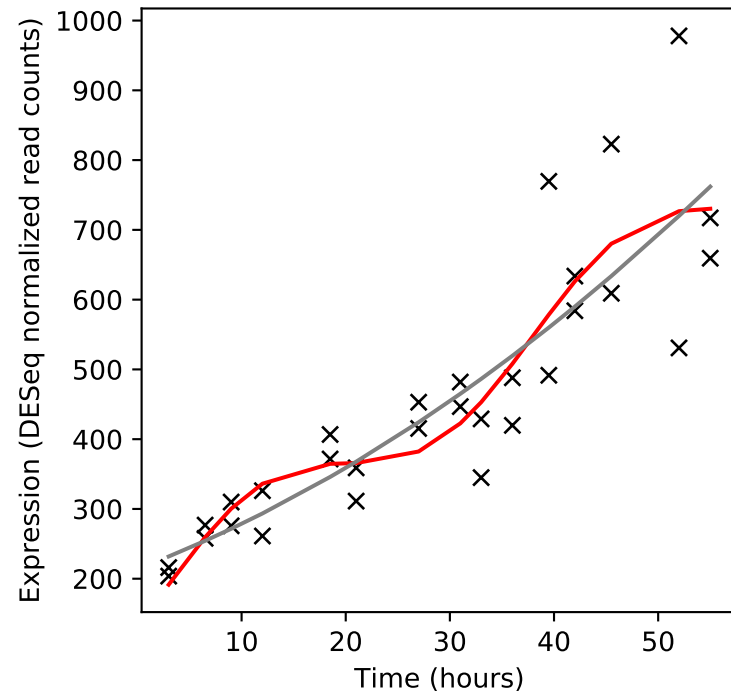
Rv0679c/-



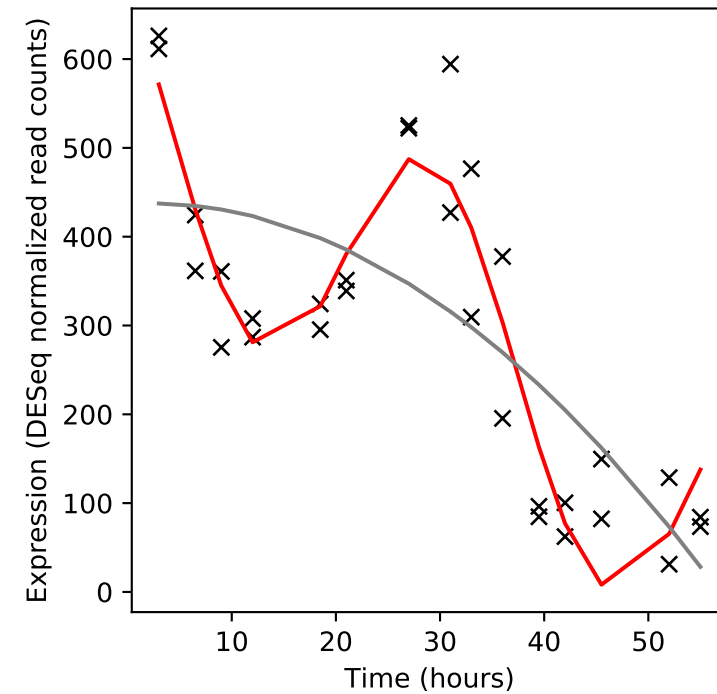
Rv0680c/-



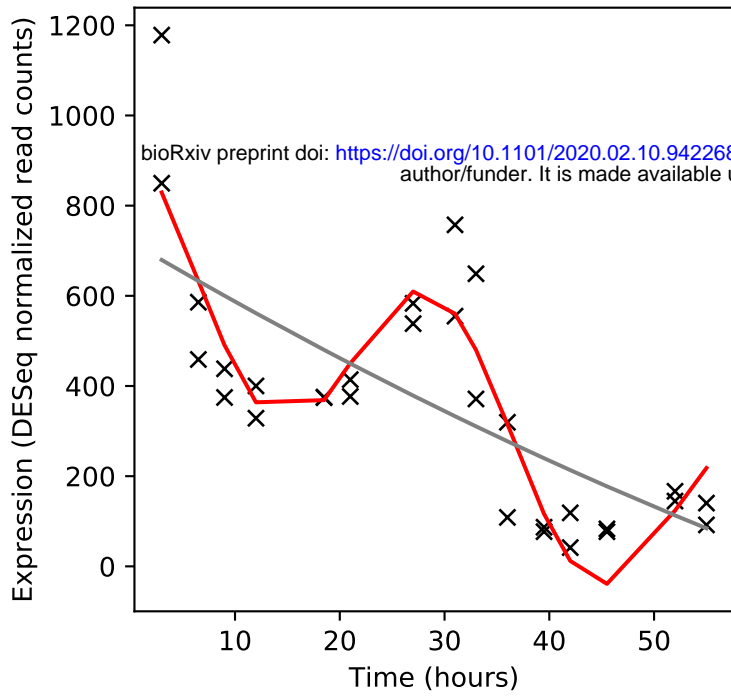
Rv0681/-



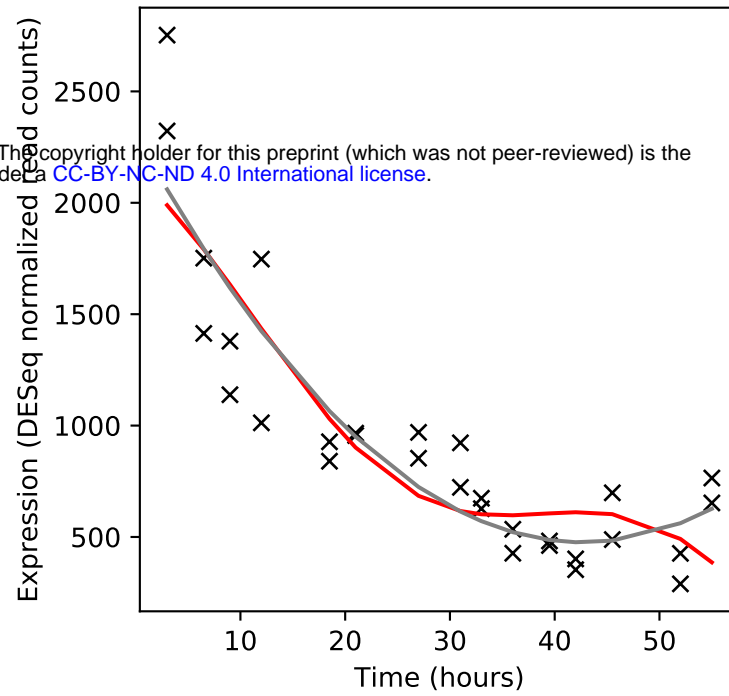
Rv0682/rpsL



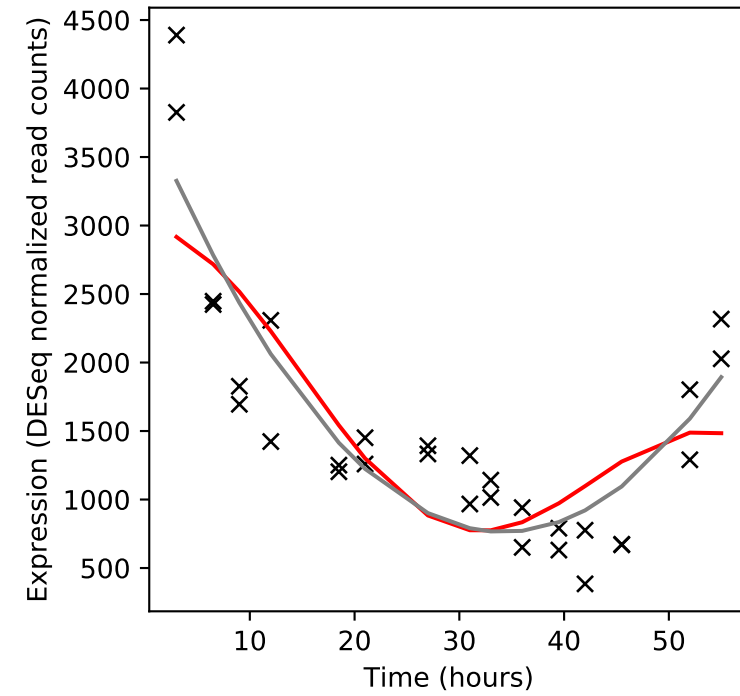
Rv0683/rpsG



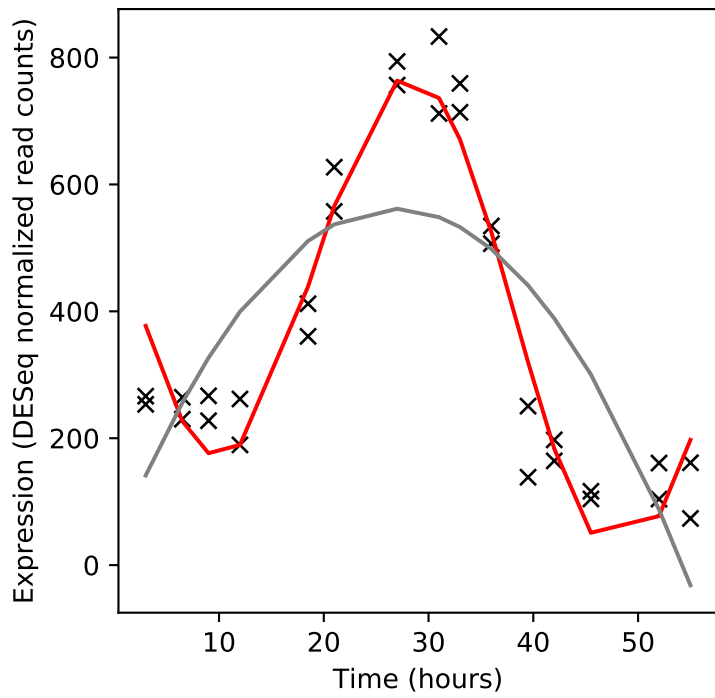
Rv0684/fusA1



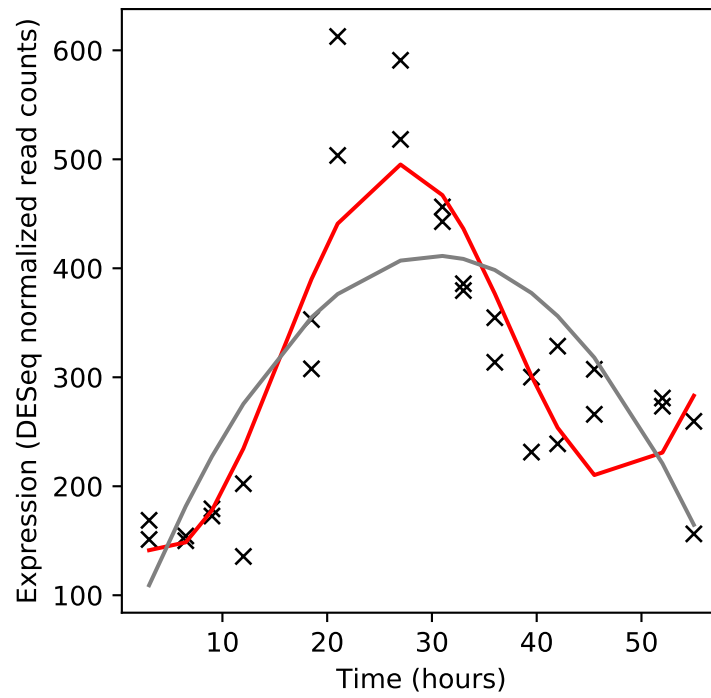
Rv0685/tuf



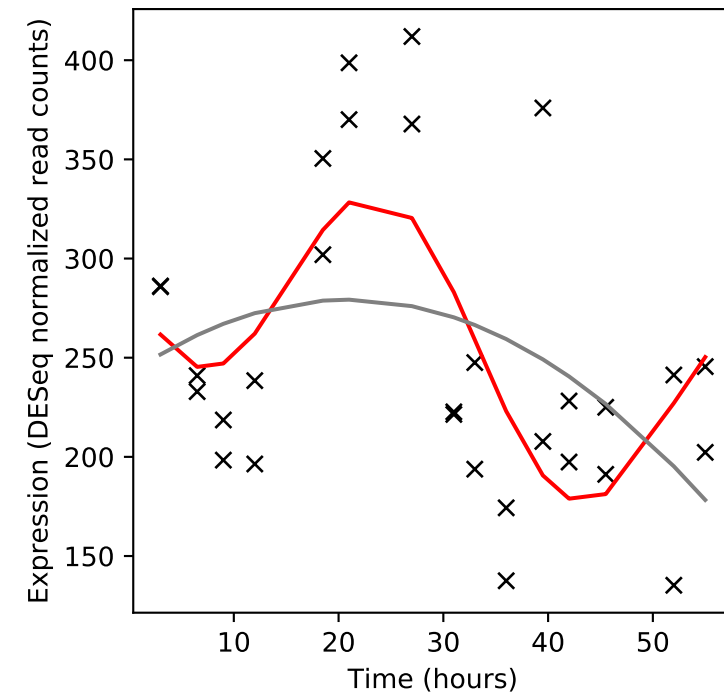
Rv0686/-



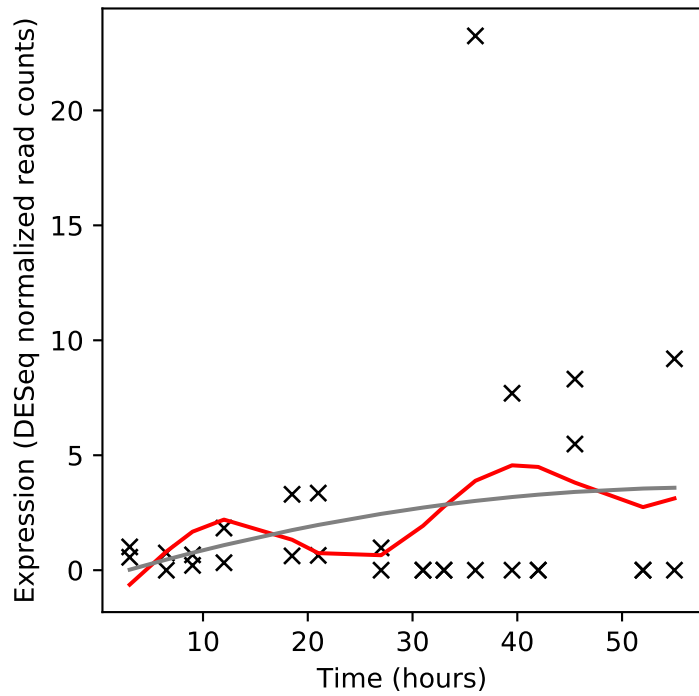
Rv0687/-



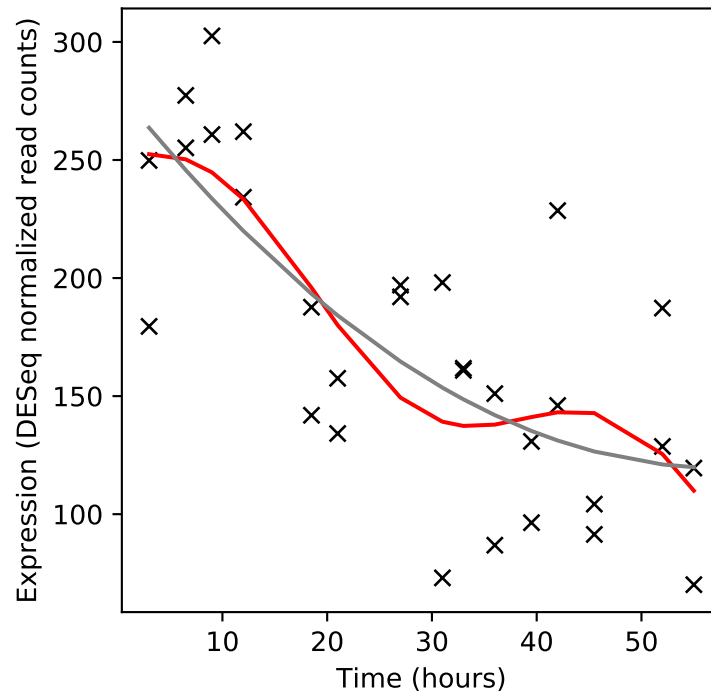
Rv0688/-



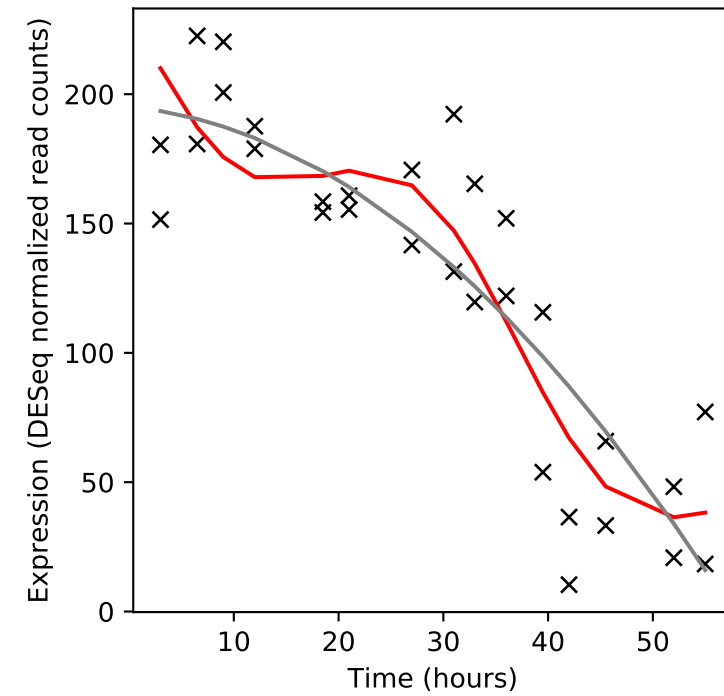
Rv0689c/-



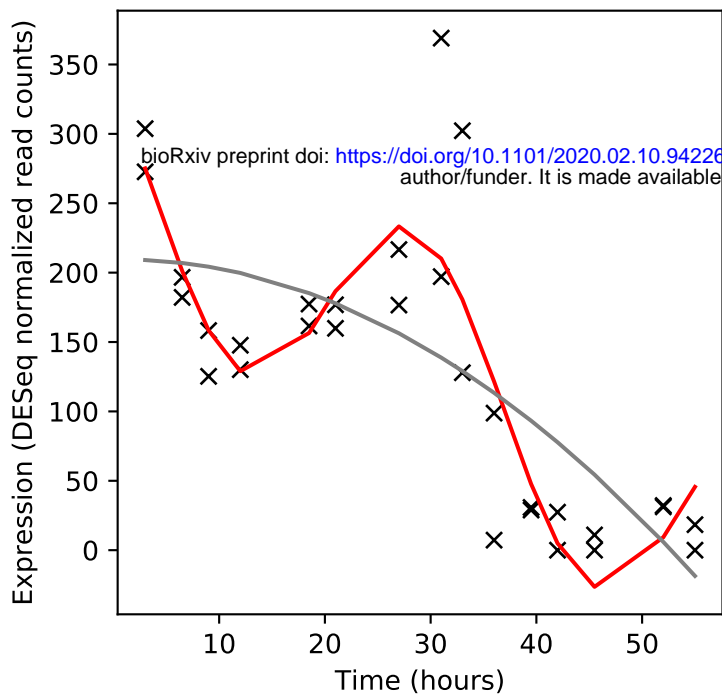
Rv0690c/-



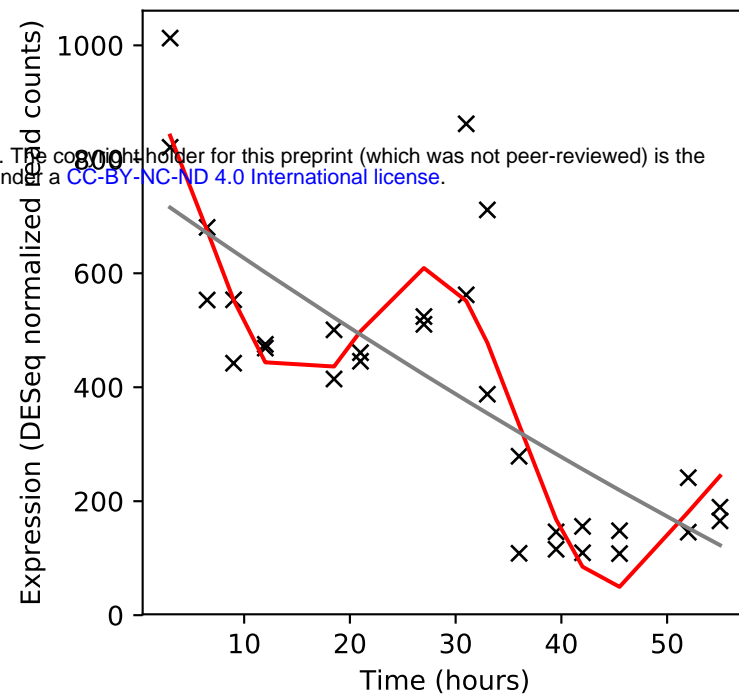
Rv0691c/-



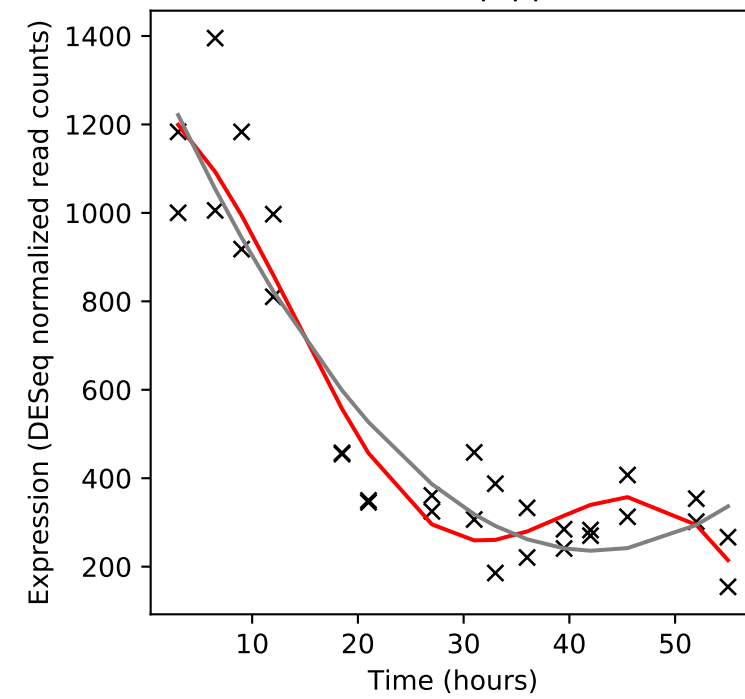
Rv0691A/-



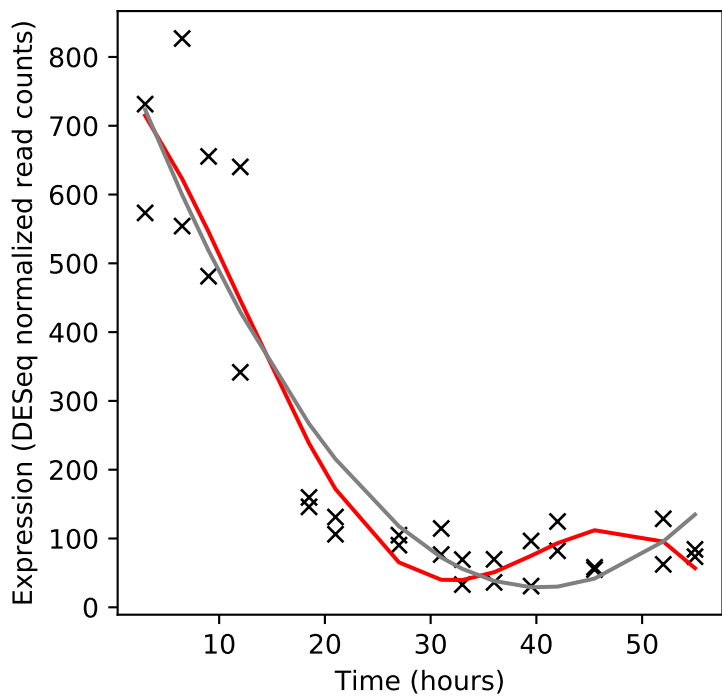
Rv0692/-



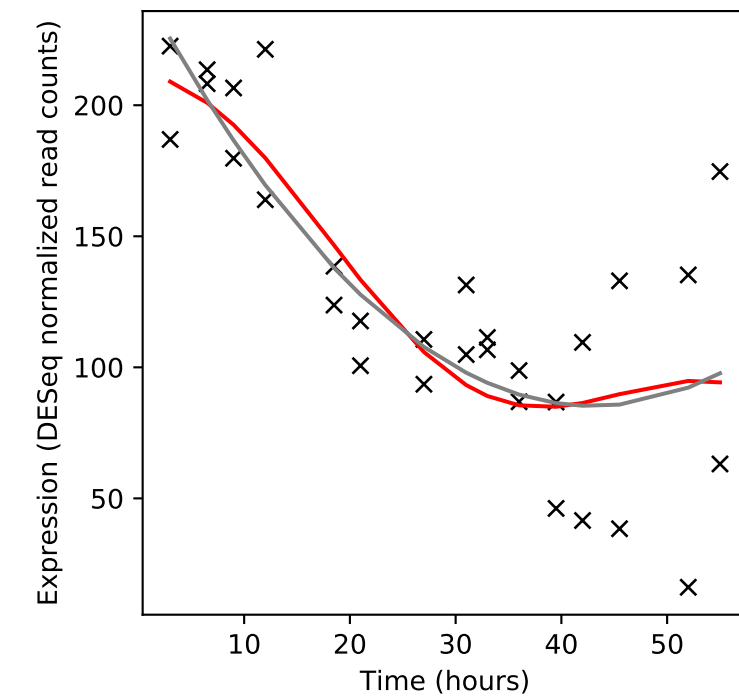
Rv0693/pqqE



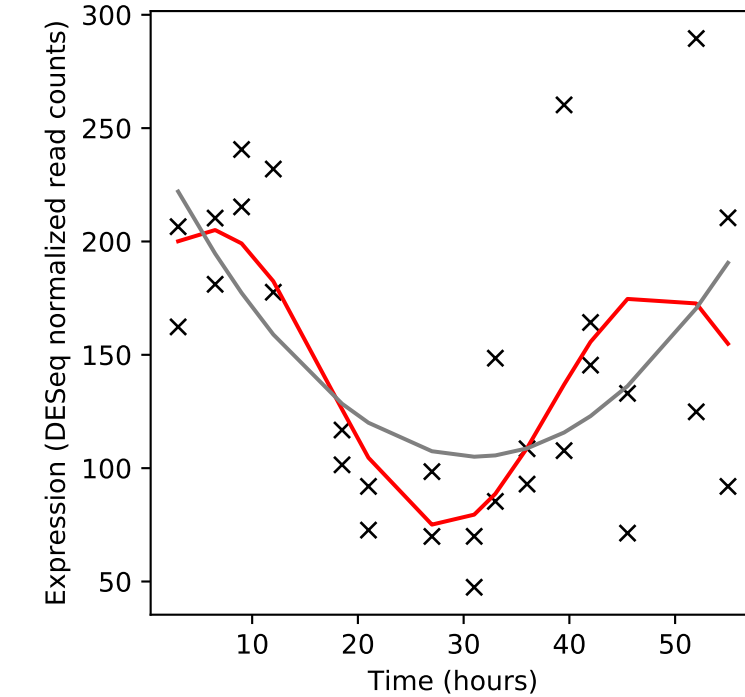
Rv0694/IldD1



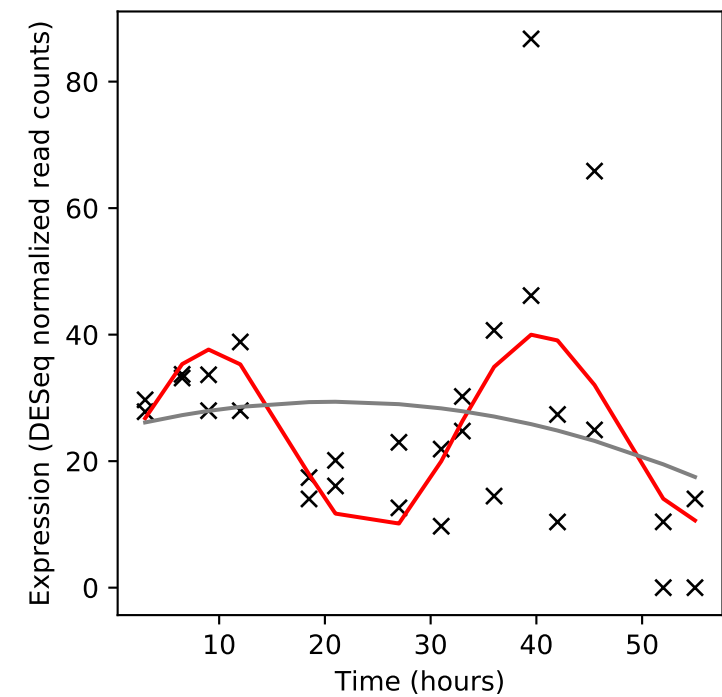
Rv0695/-



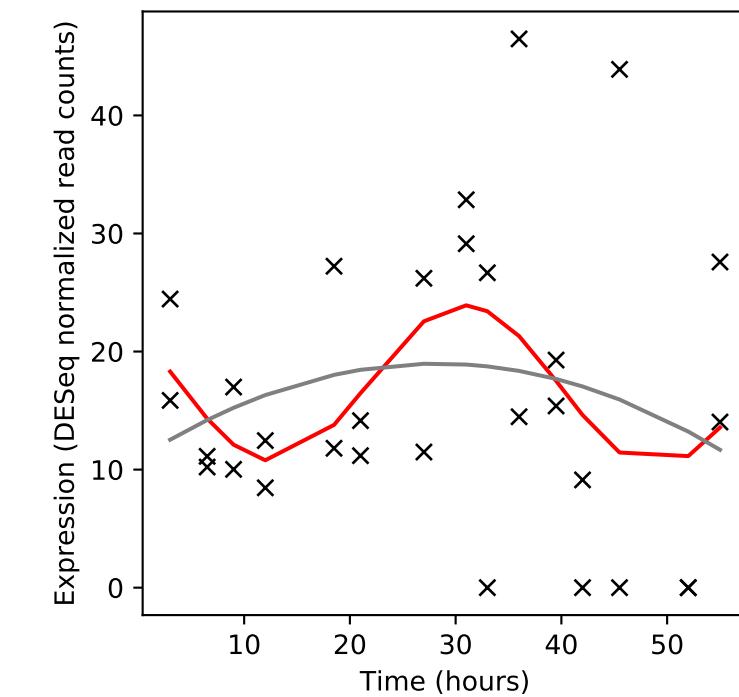
Rv0696/-



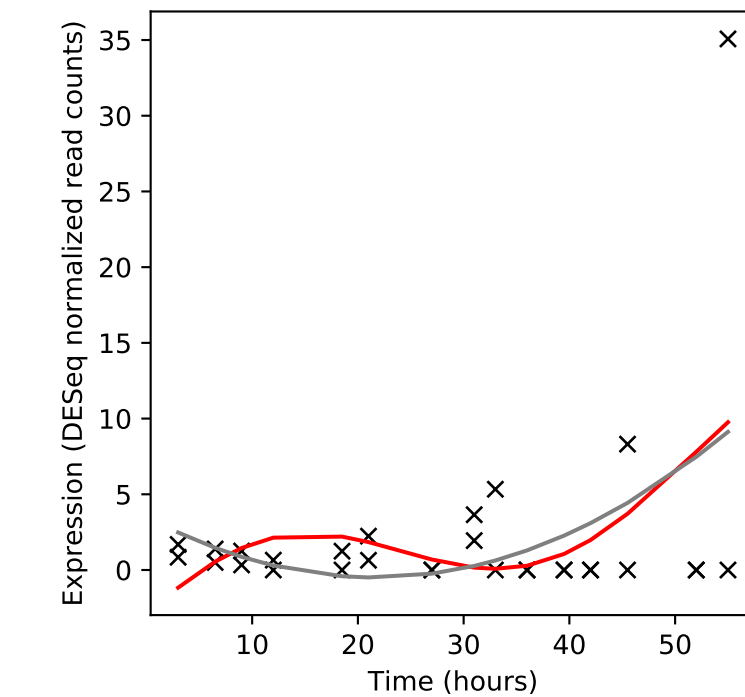
Rv0697/-



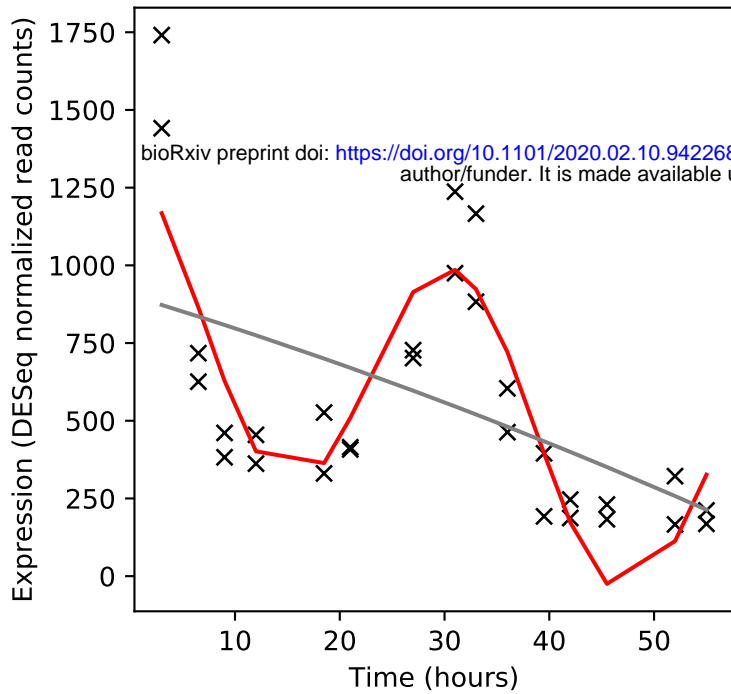
Rv0698/-



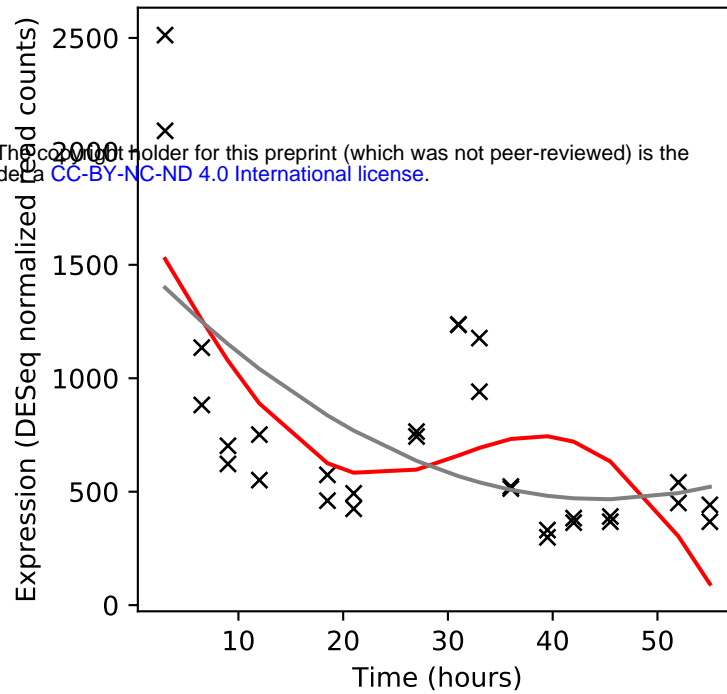
Rv0699/-



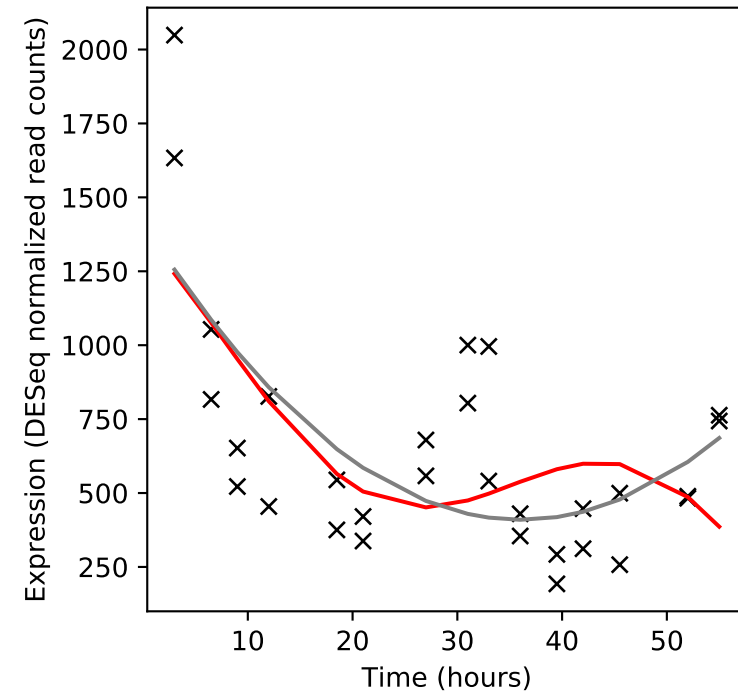
Rv0700/rpsj



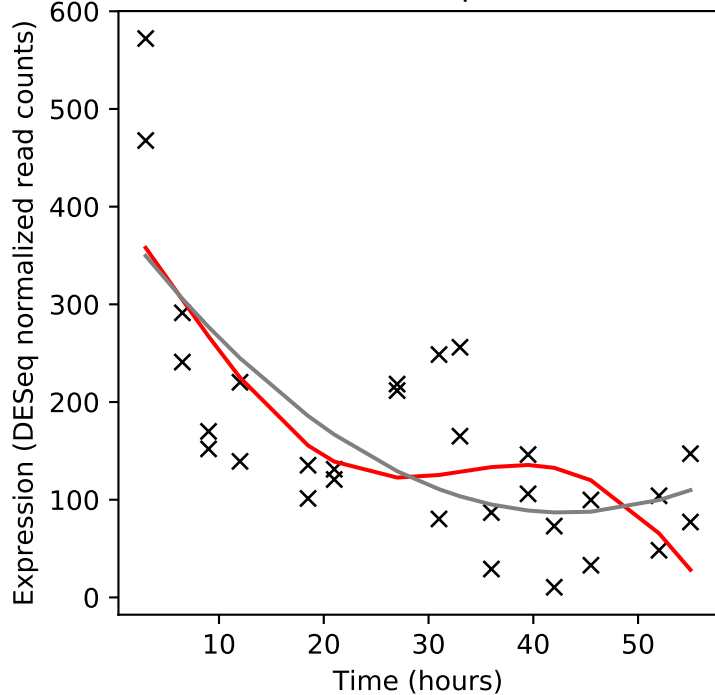
Rv0701/rplC



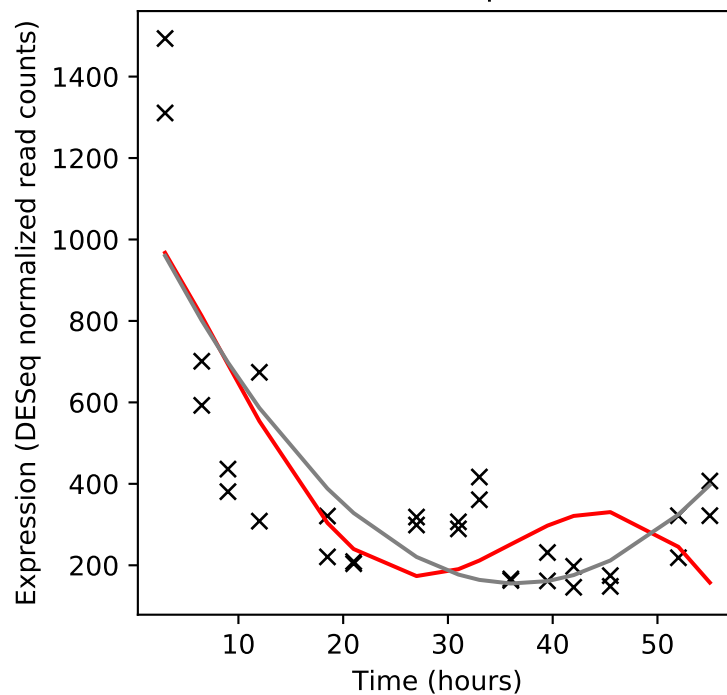
Rv0702/rplD



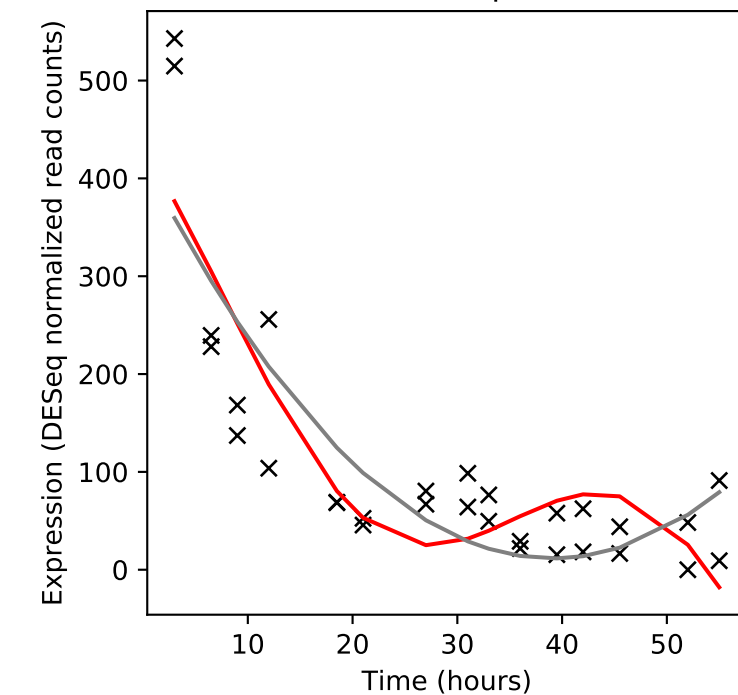
Rv0703/rplW



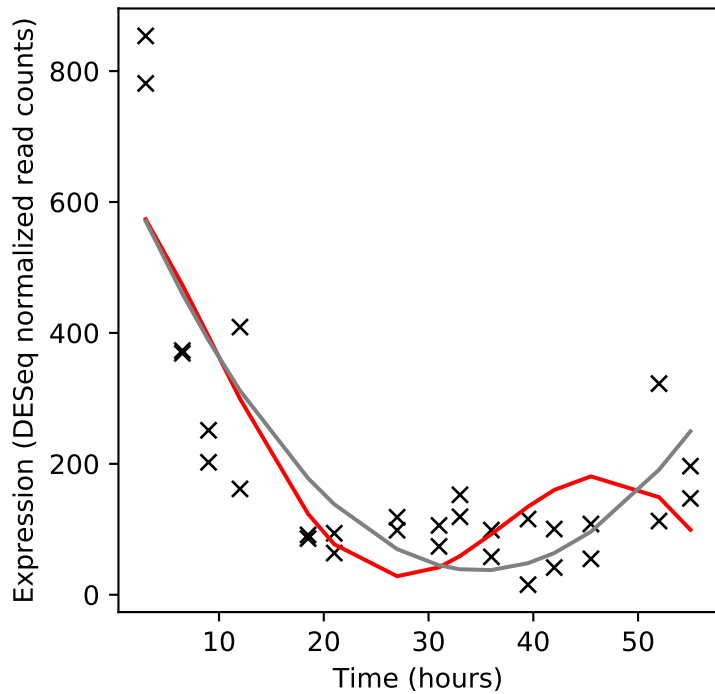
Rv0704/rplB



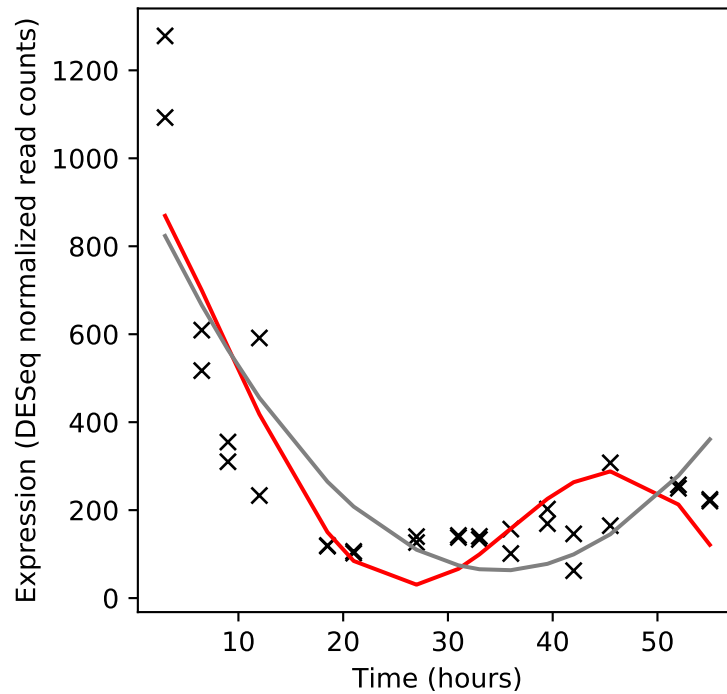
Rv0705/rpsS



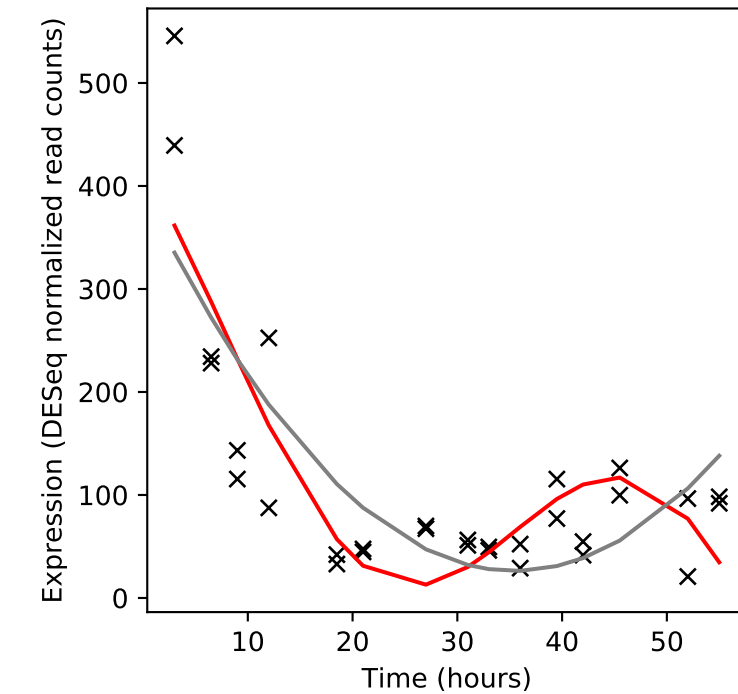
Rv0706/rplV



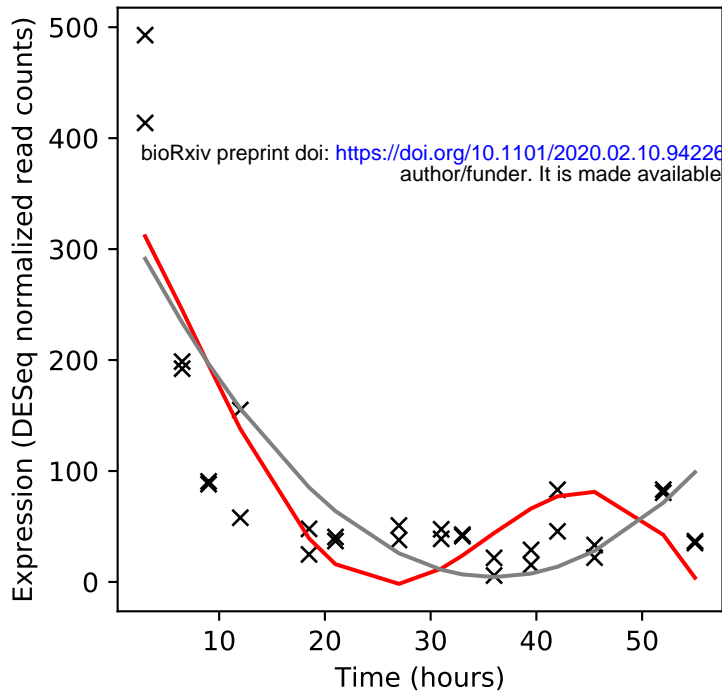
Rv0707/rpsC



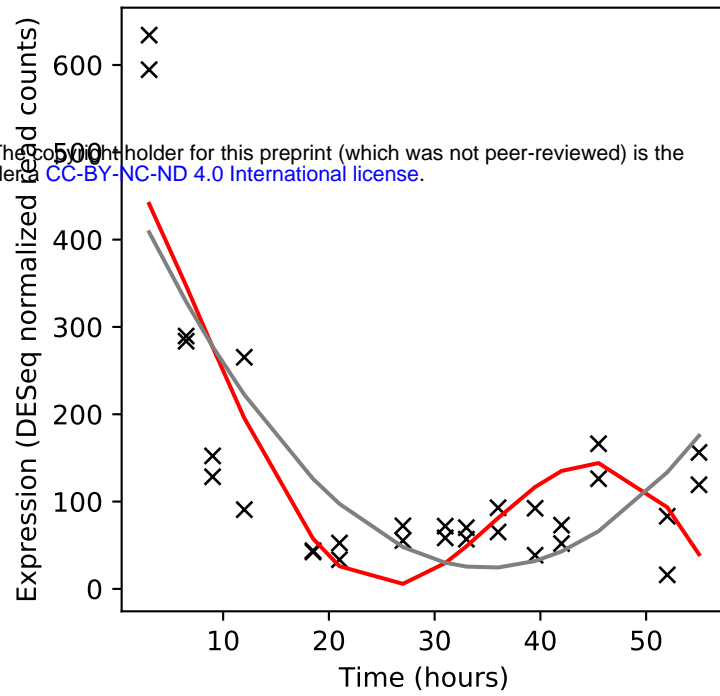
Rv0708/rplP



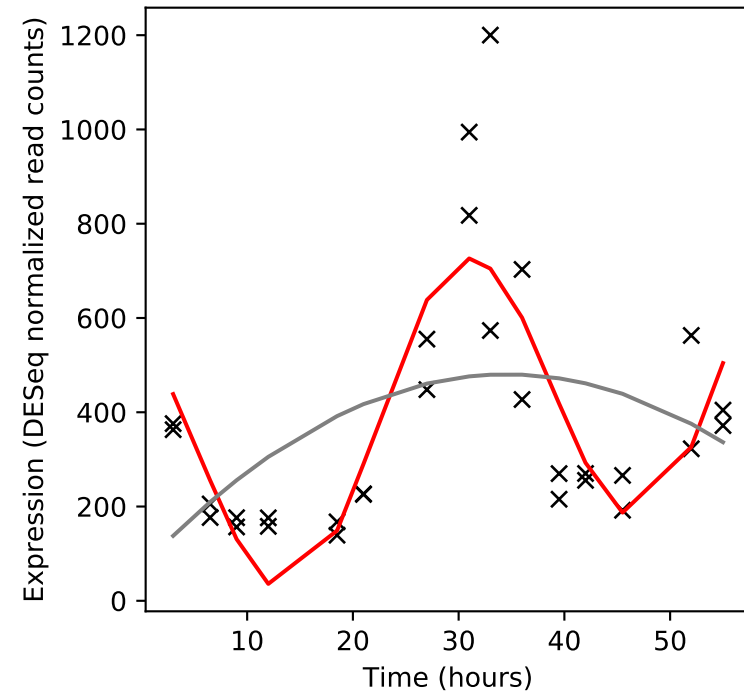
Rv0709/rpmC



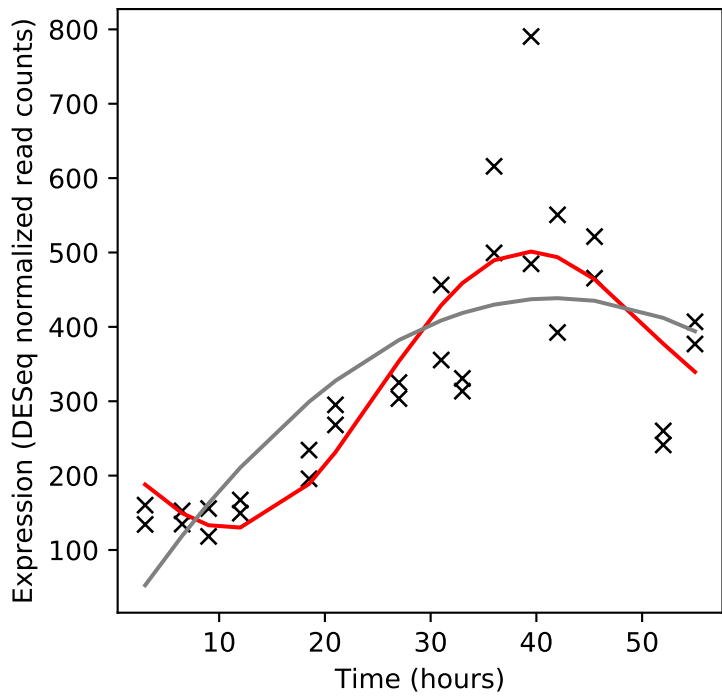
Rv0710/rpsQ



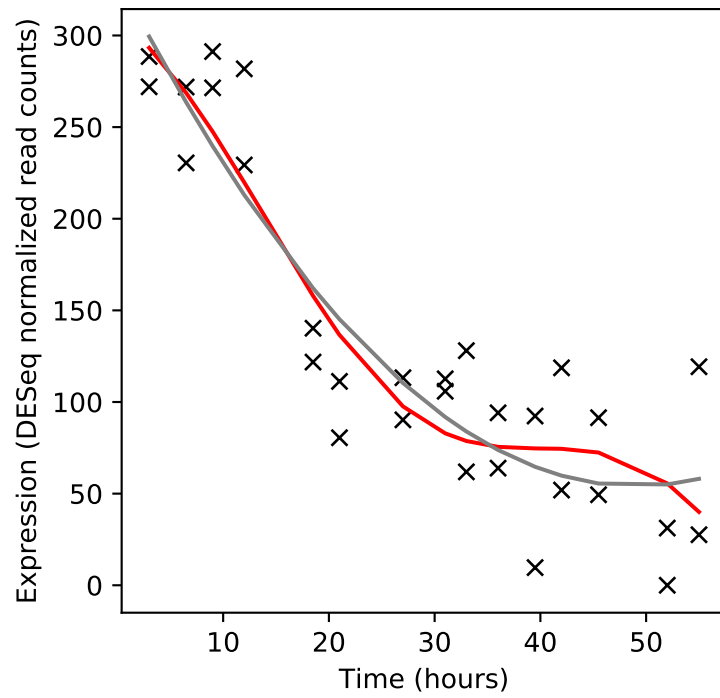
Rv0711/atsA



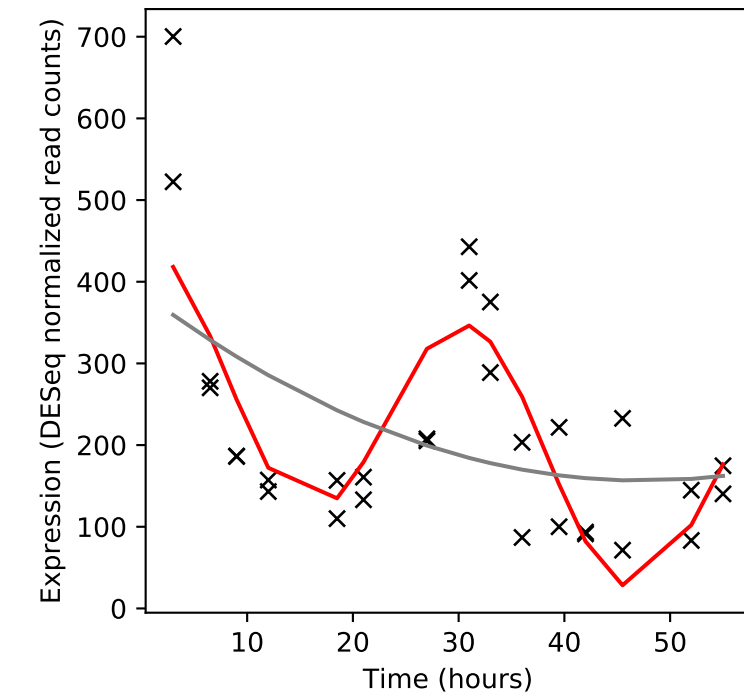
Rv0712/-



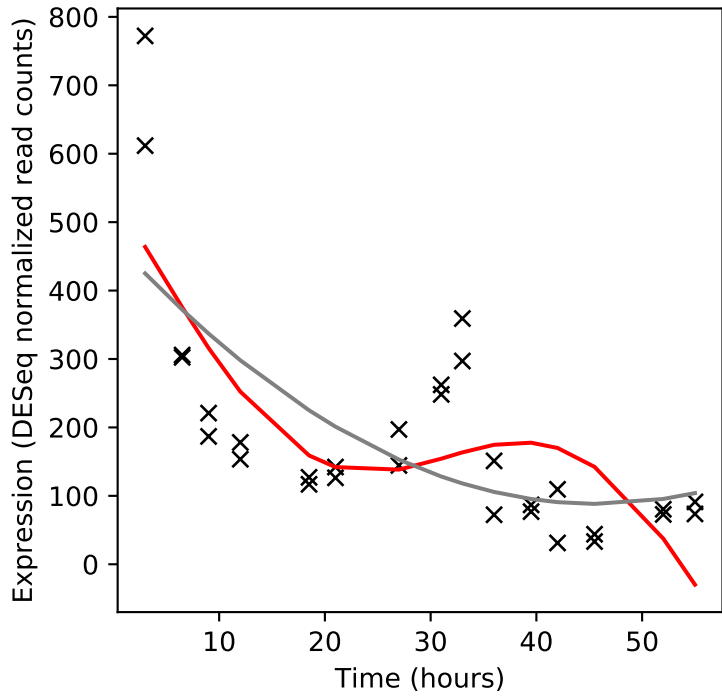
Rv0713/-



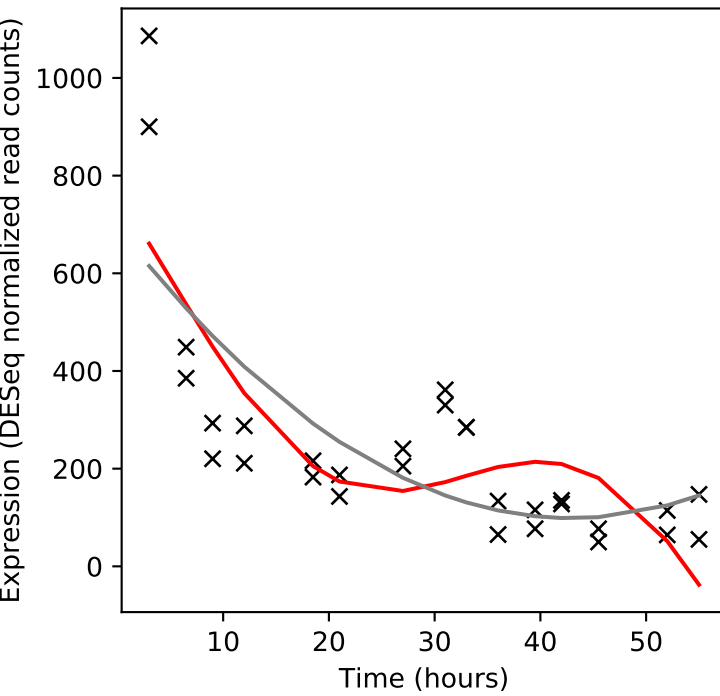
Rv0714/rplN



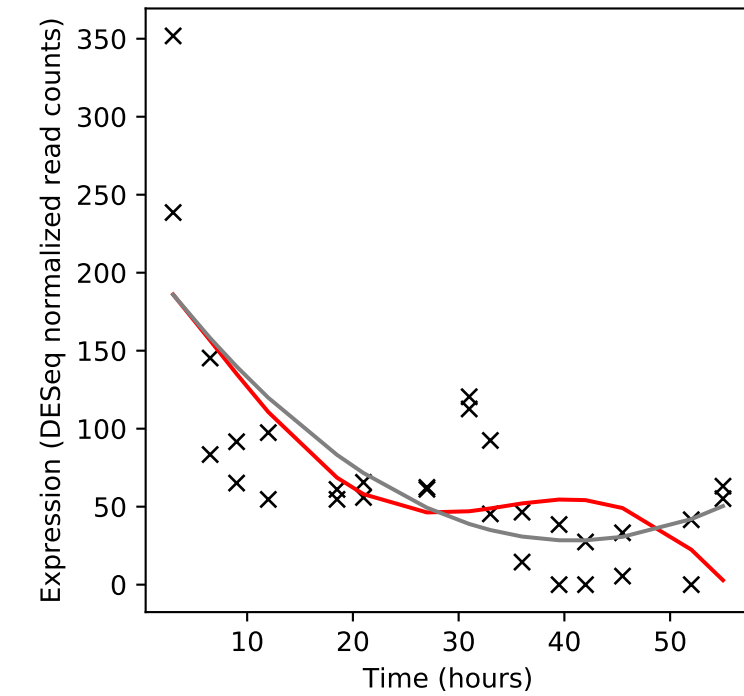
Rv0715/rplX



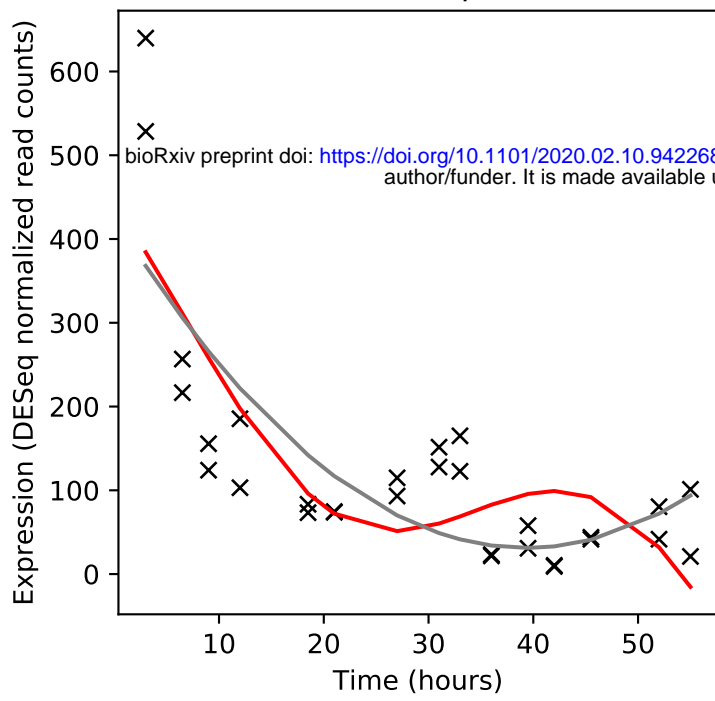
Rv0716/rplE



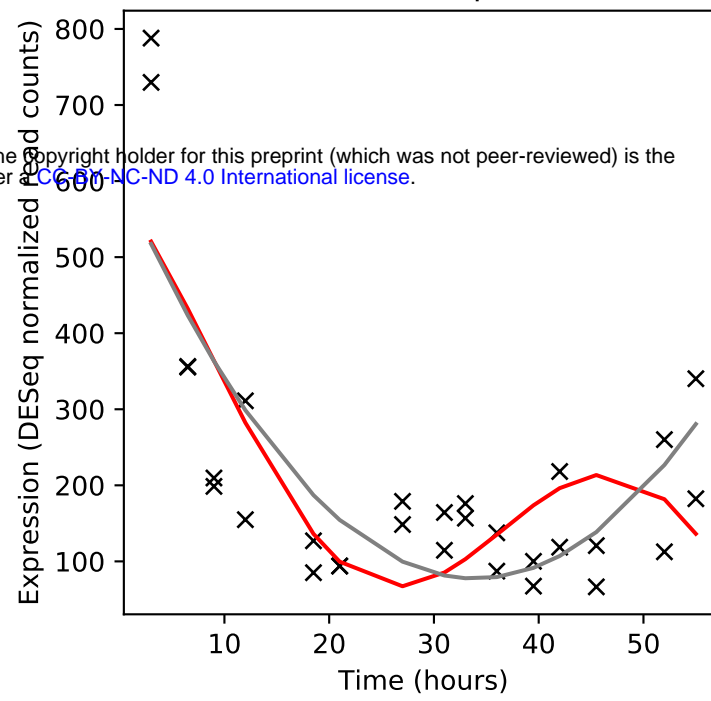
Rv0717/rpsN1



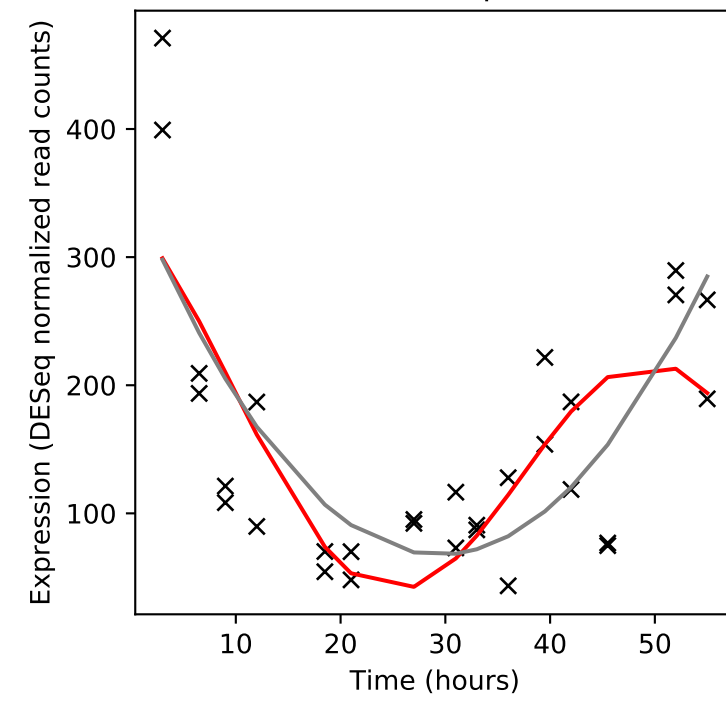
Rv0718/rpsH



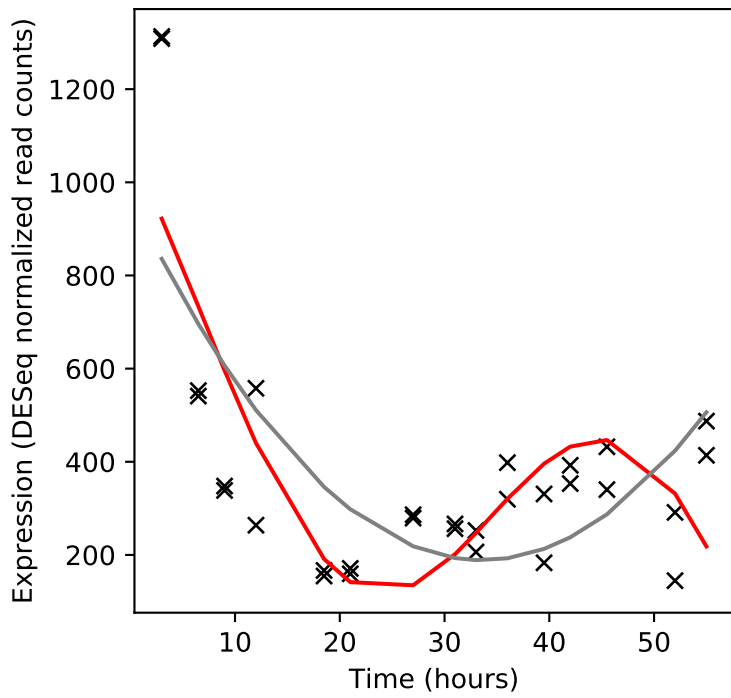
Rv0719/rplF



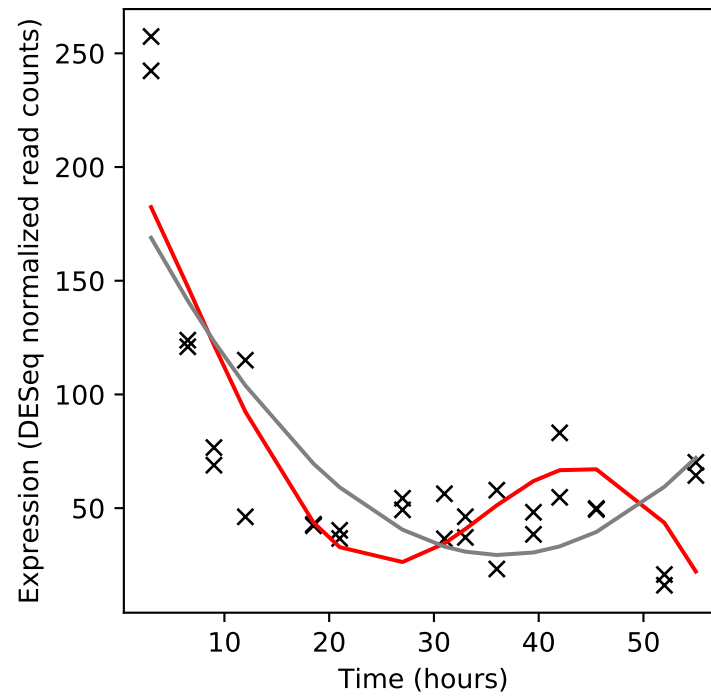
Rv0720/rplR



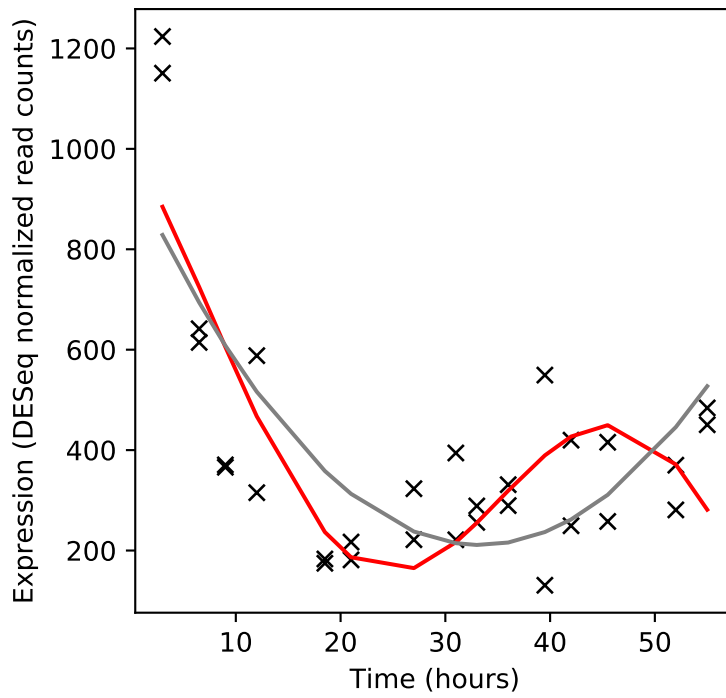
Rv0721/rpsE



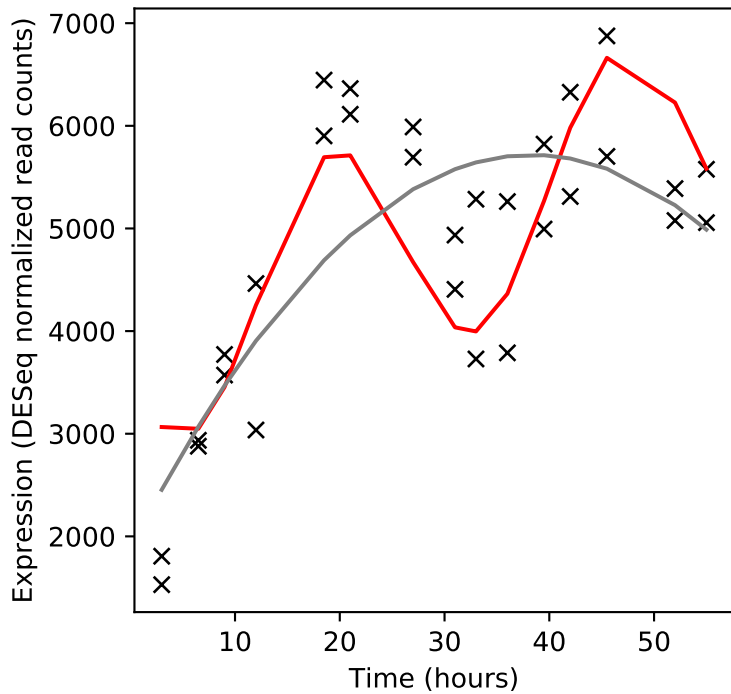
Rv0722/rpmD



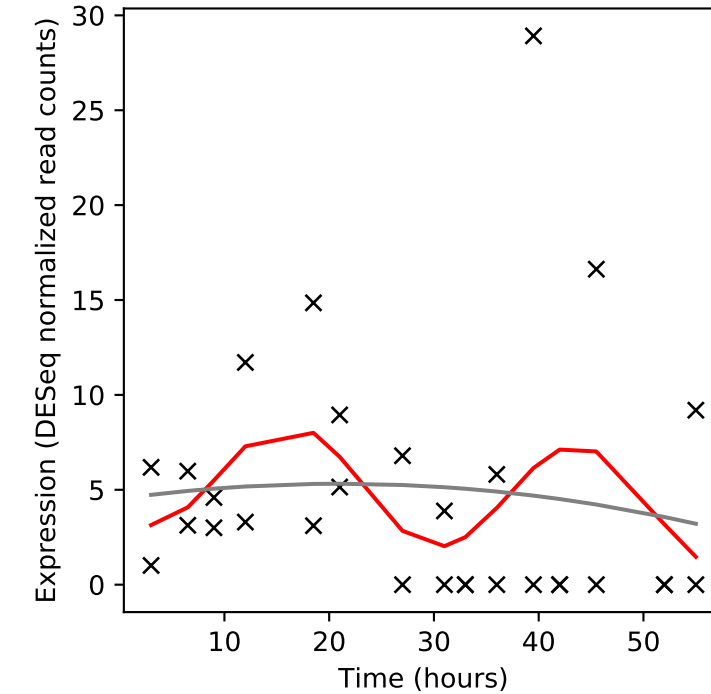
Rv0723/rplO



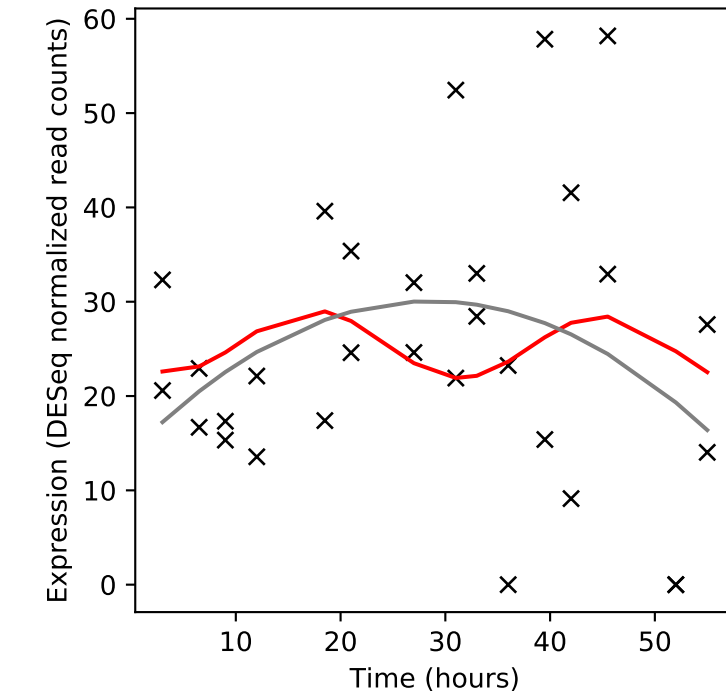
Rv0724/sppA



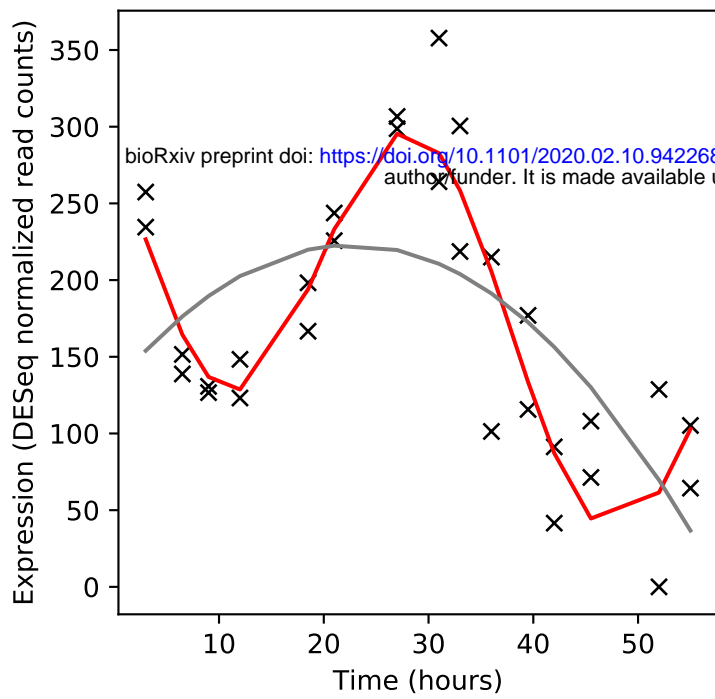
Rv0724A/-



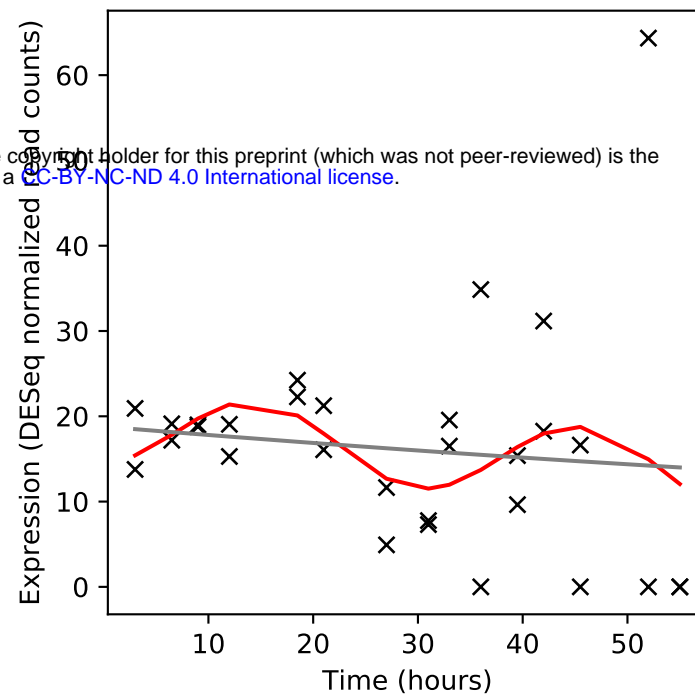
Rv0725c/-



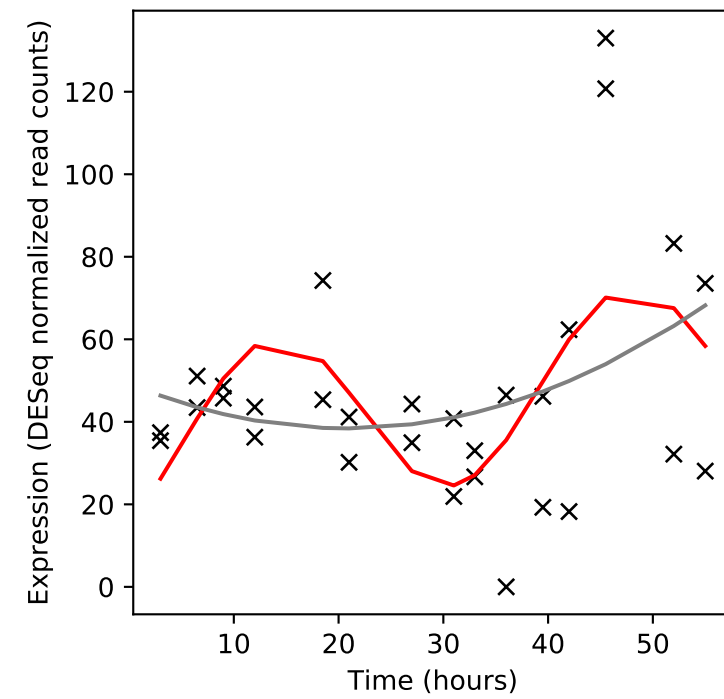
Rv0726c/-



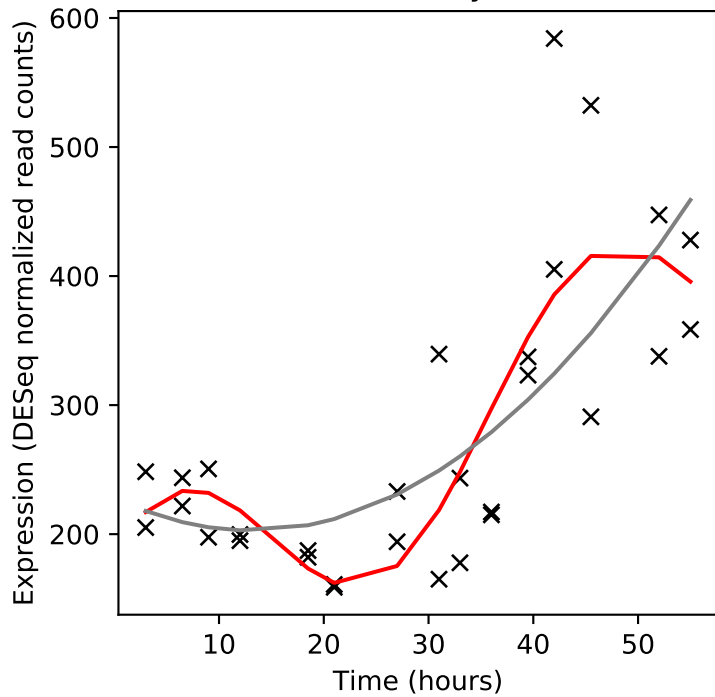
Rv0727c/fucA



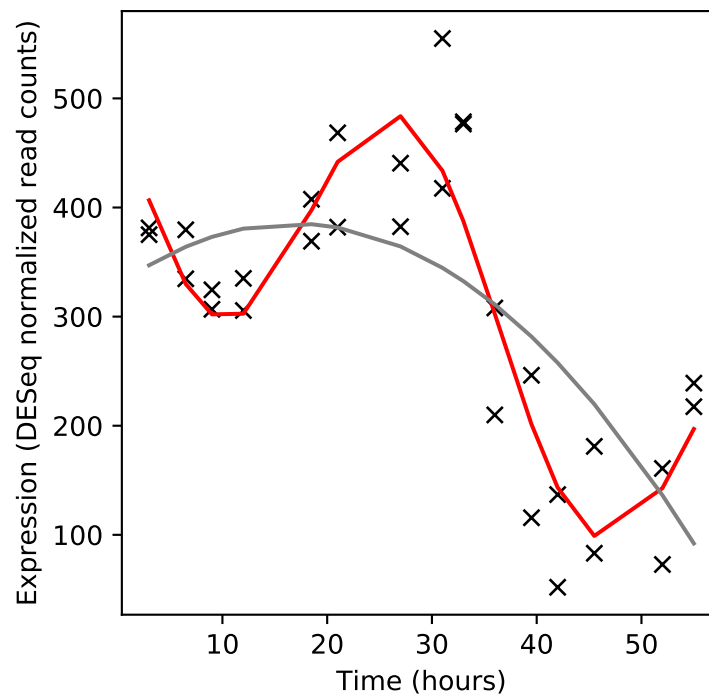
Rv0728c/serA2



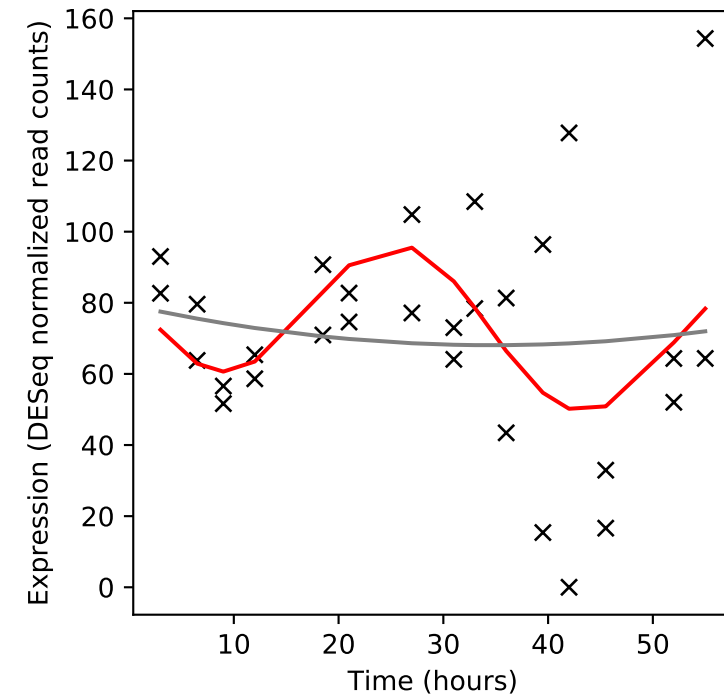
Rv0729/xyIB



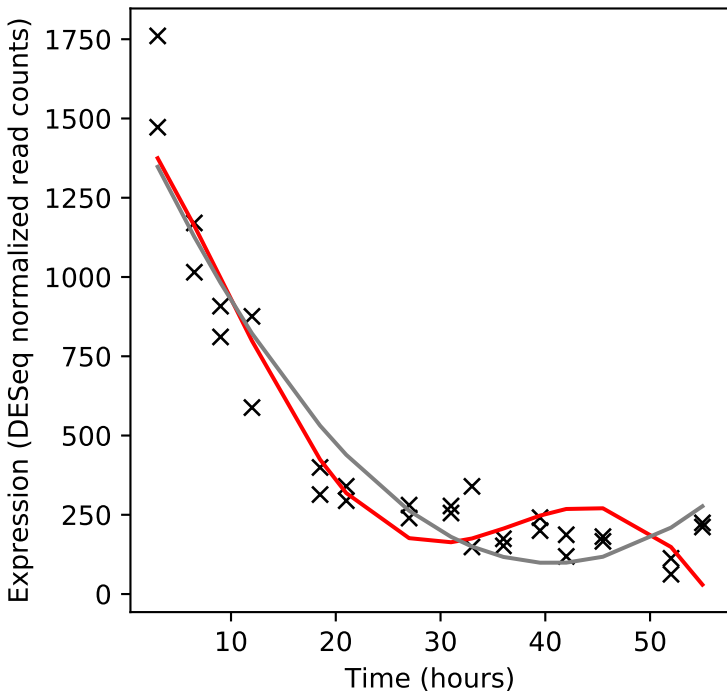
Rv0730/-



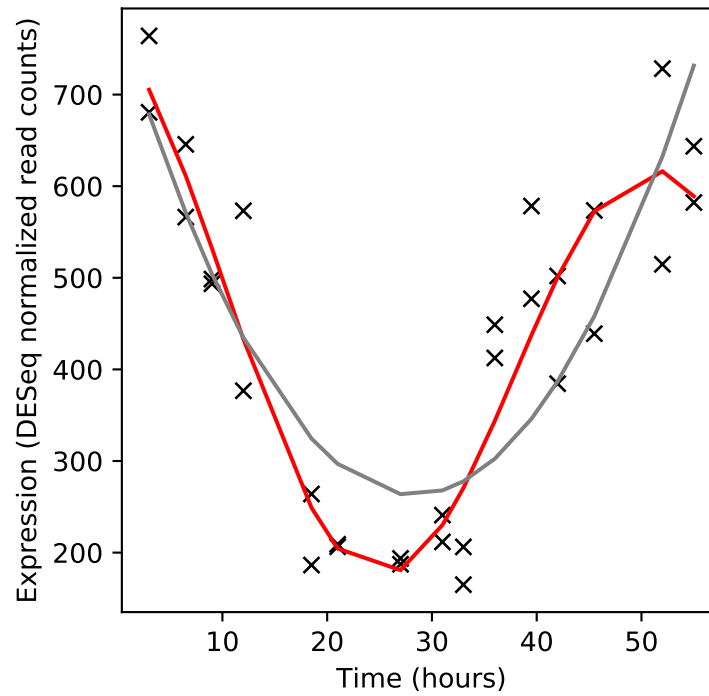
Rv0731c/-



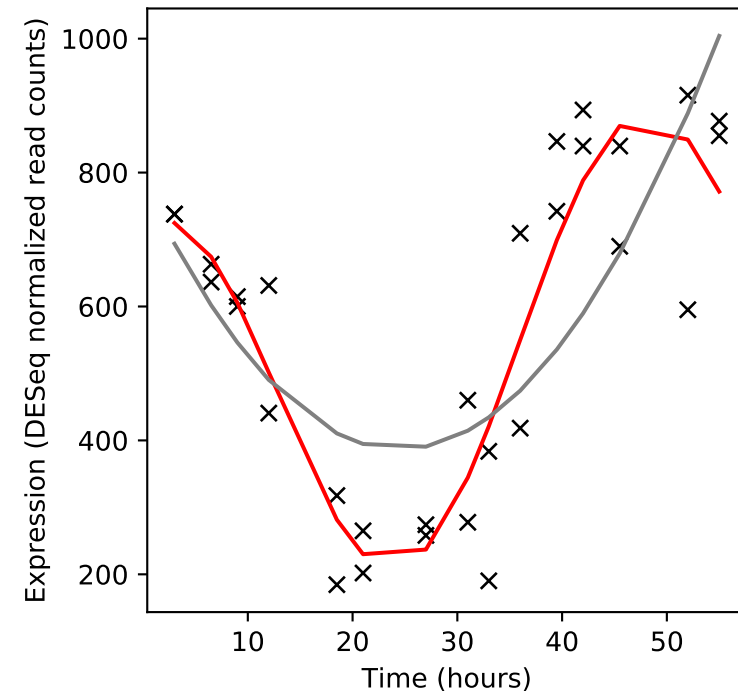
Rv0732/secY



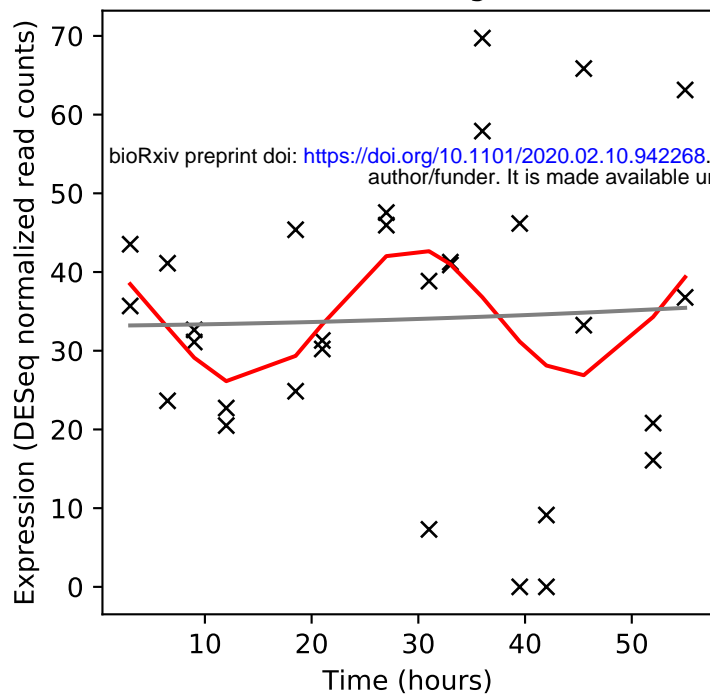
Rv0733/adk



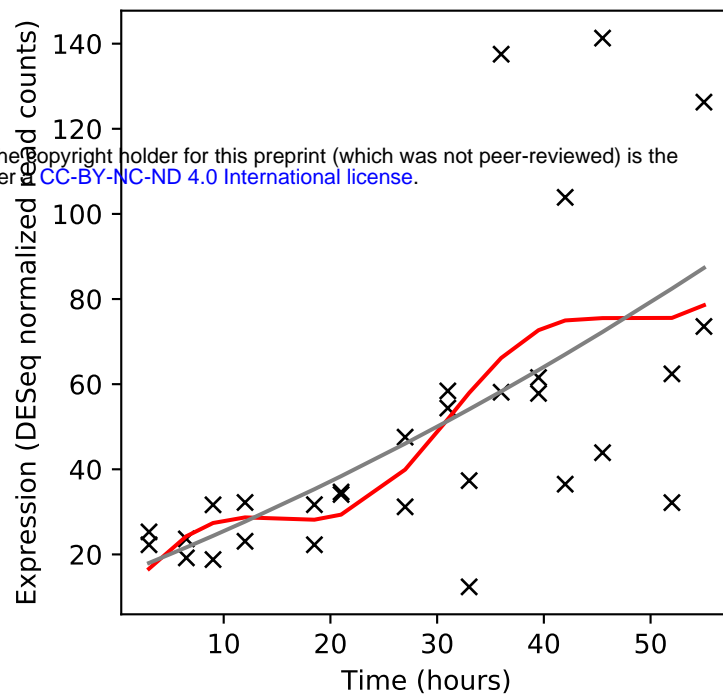
Rv0734/mapA



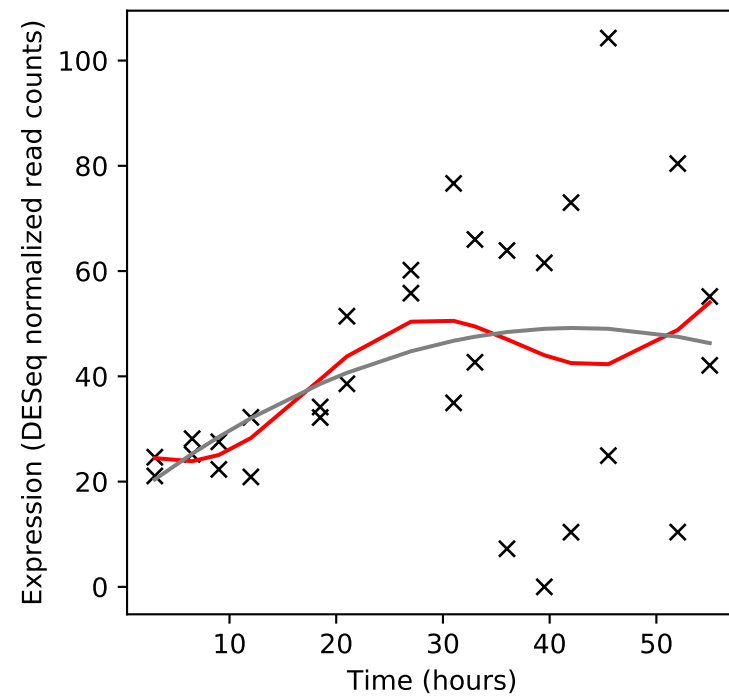
Rv0735/sigL



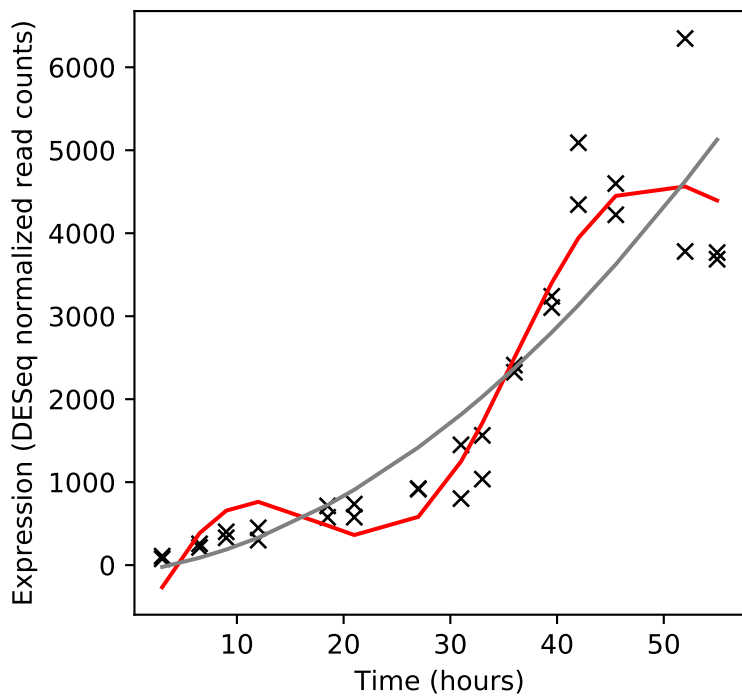
Rv0736/rsIA



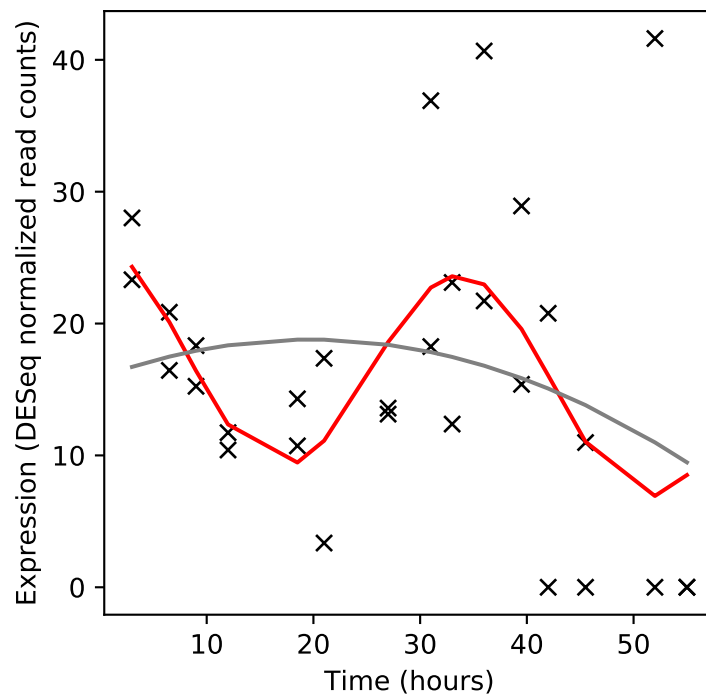
Rv0737/-



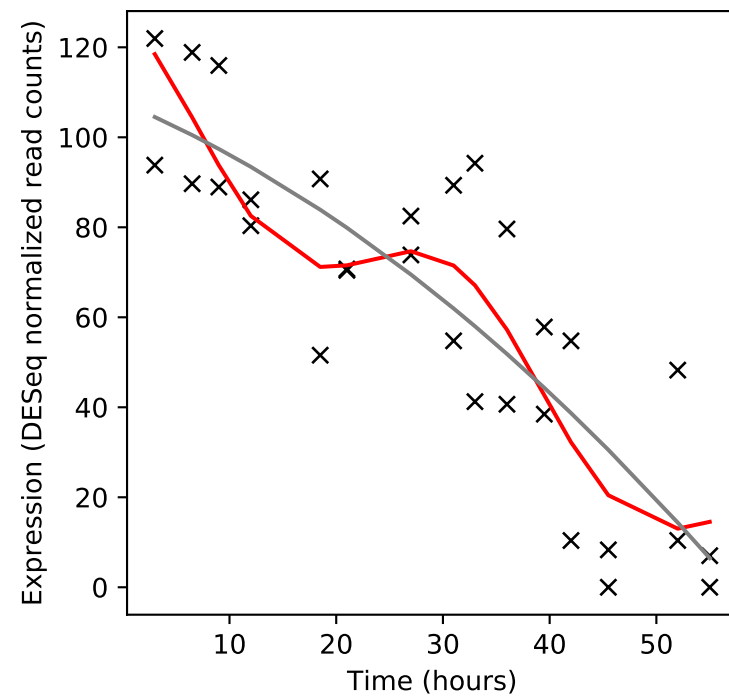
Rv0738/-



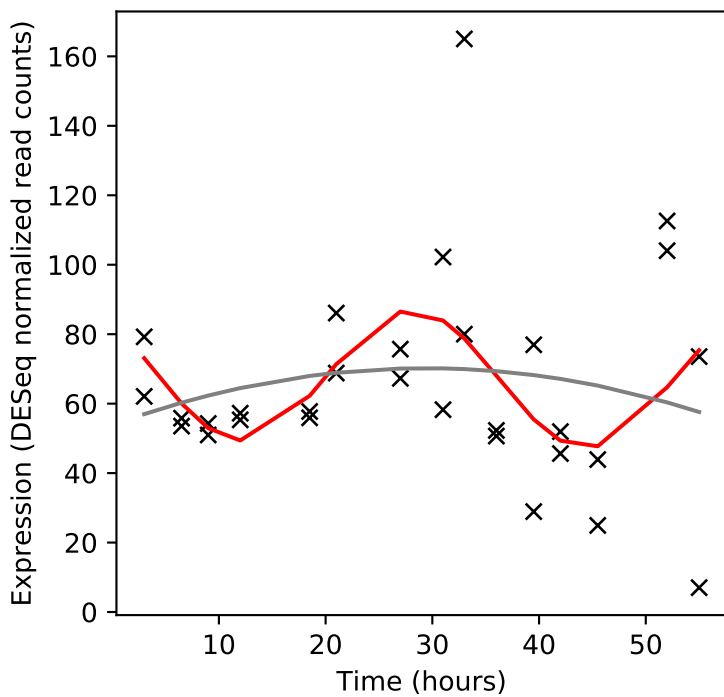
Rv0739/-



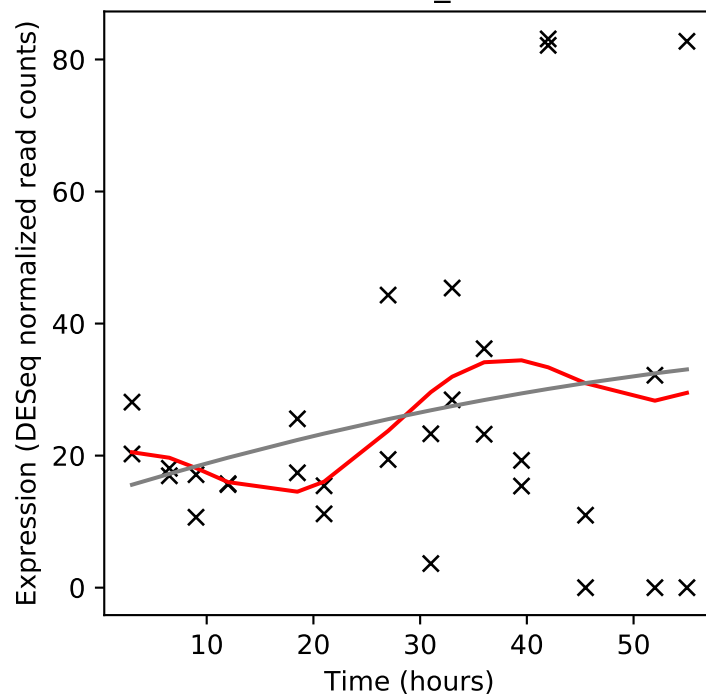
Rv0740/-



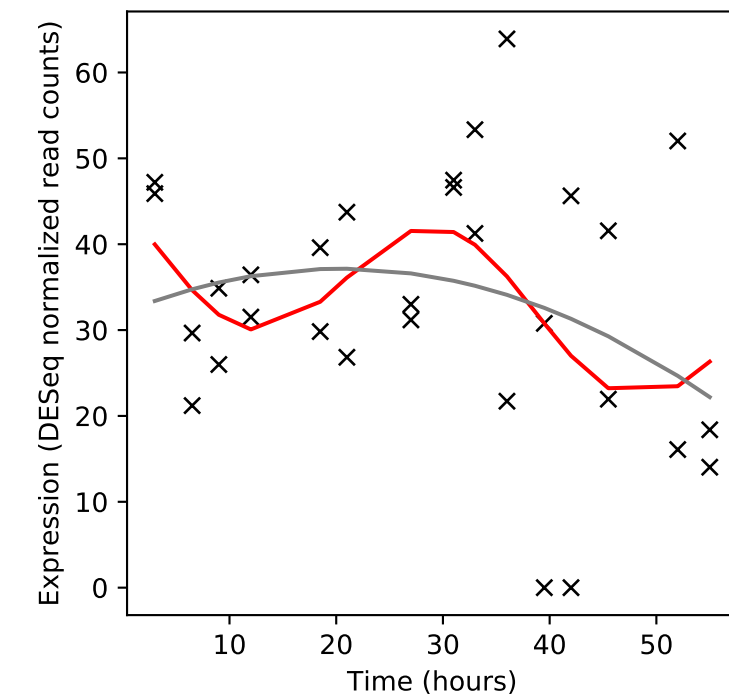
Rv0741/-



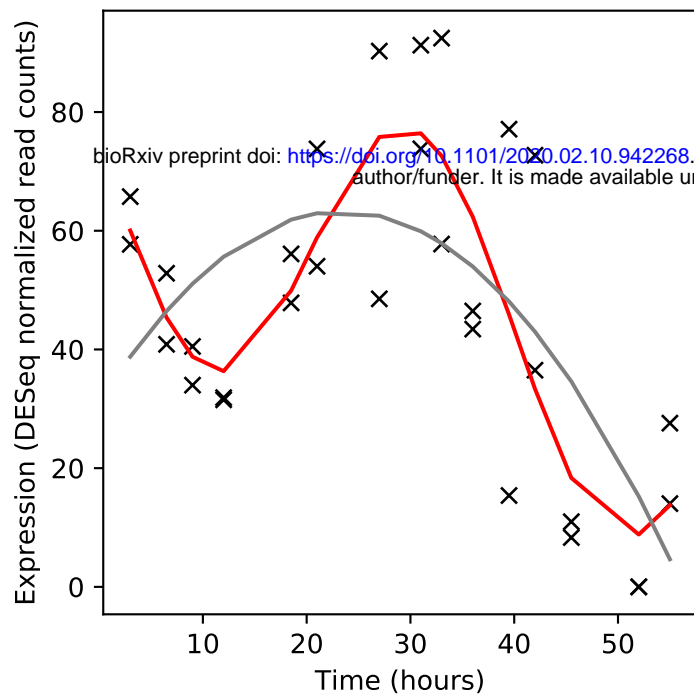
Rv0742/PE_PGRS8



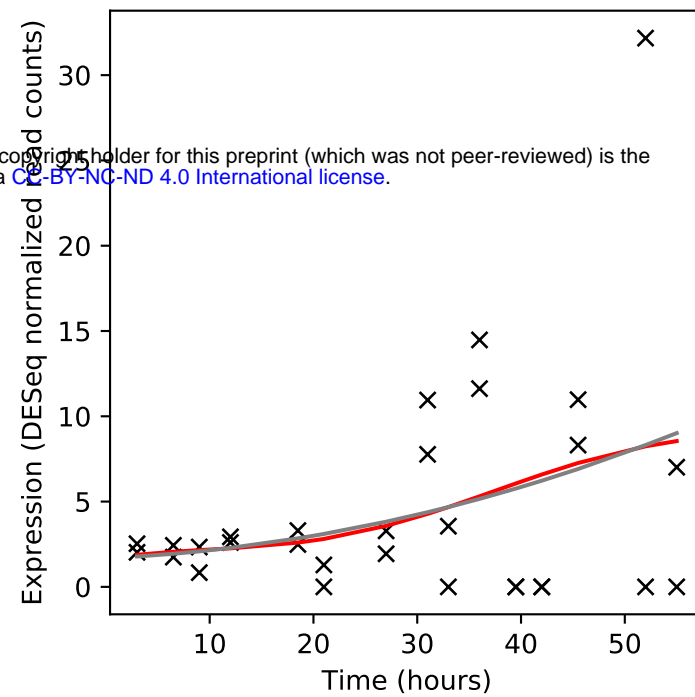
Rv0743c/-



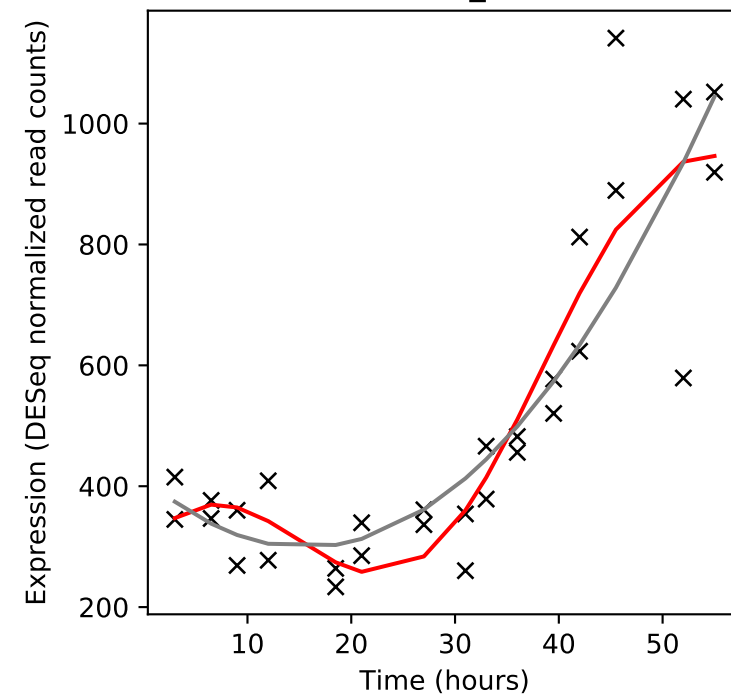
Rv0744c/-



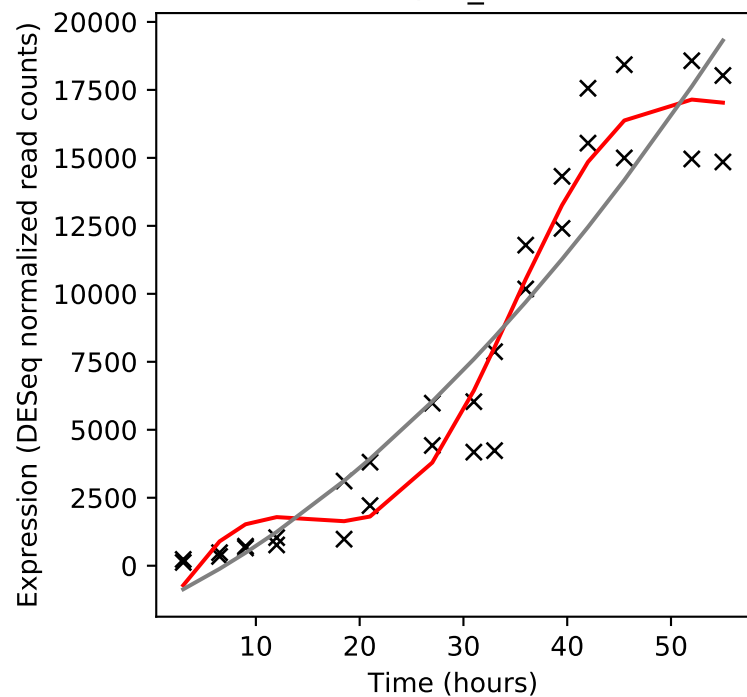
Rv0745/-



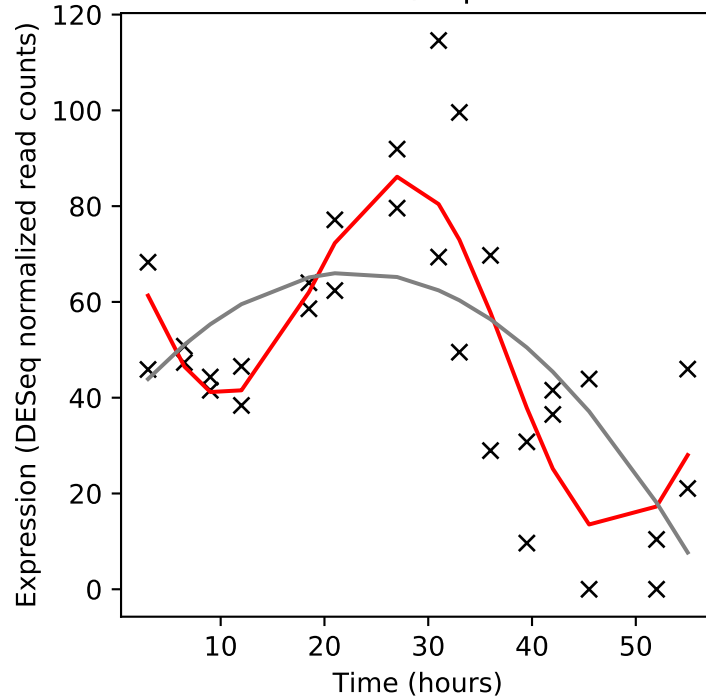
Rv0746/PE_PGRS9



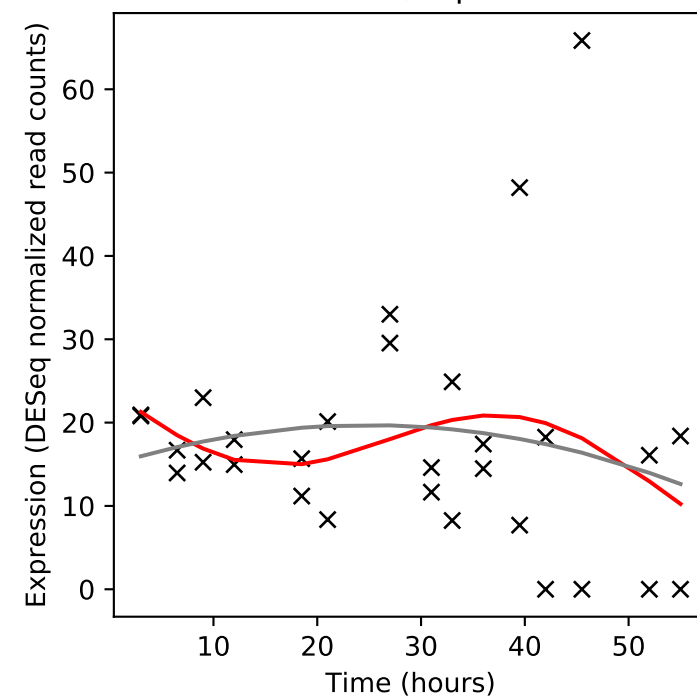
Rv0747/PE_PGRS10



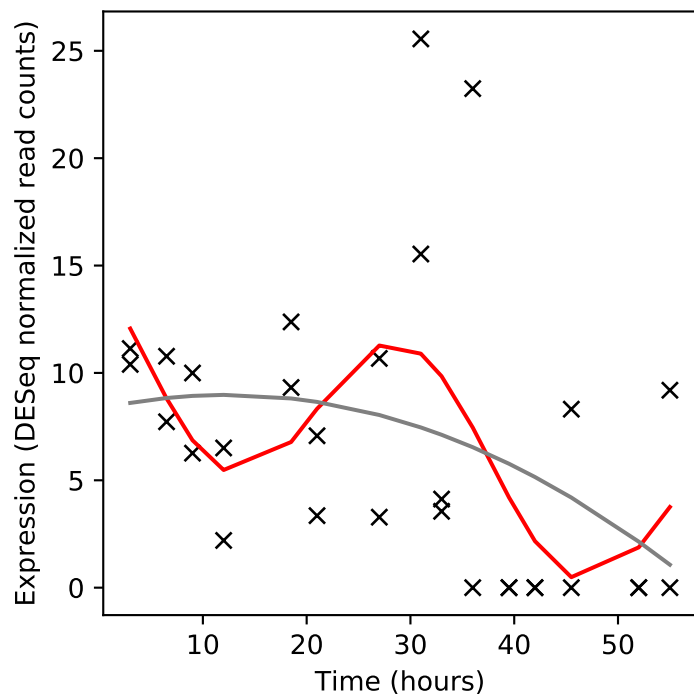
Rv0748/vapB31



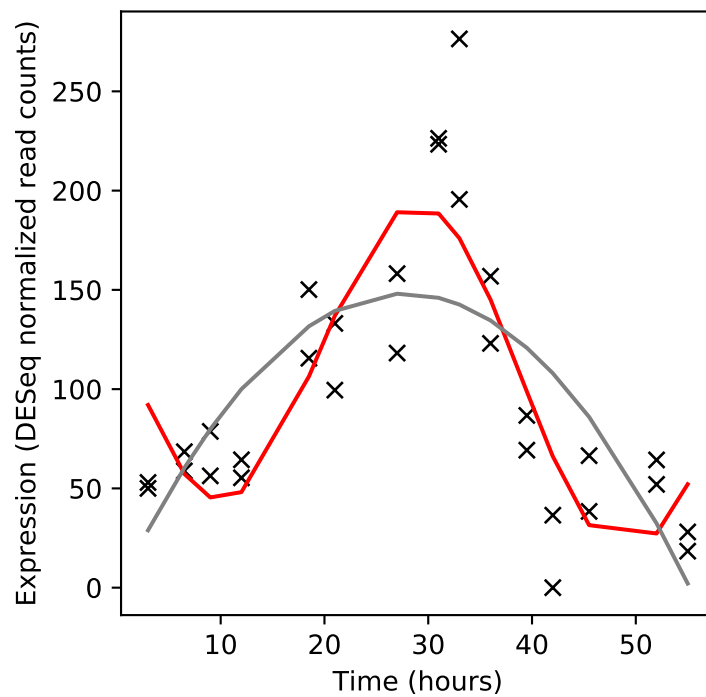
Rv0749/vapC31



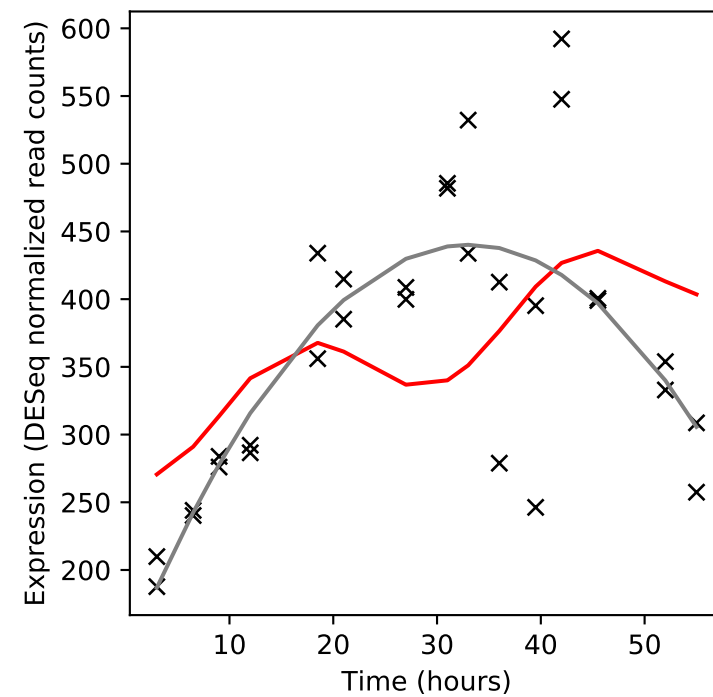
Rv0749A/-



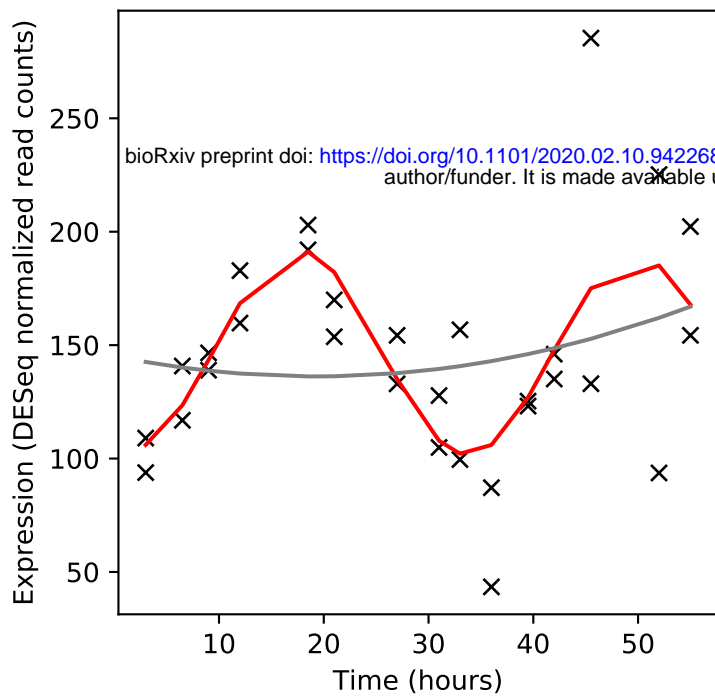
Rv0750/-



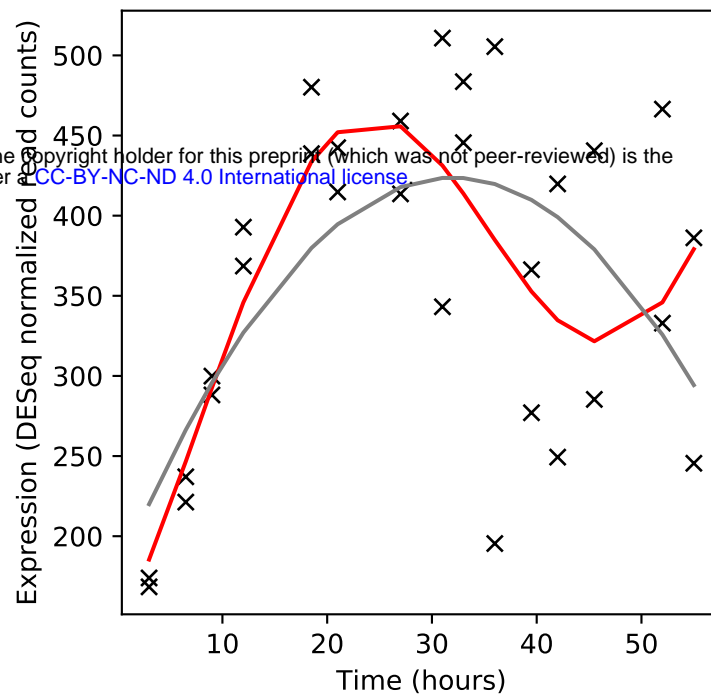
Rv0751c/mmsB



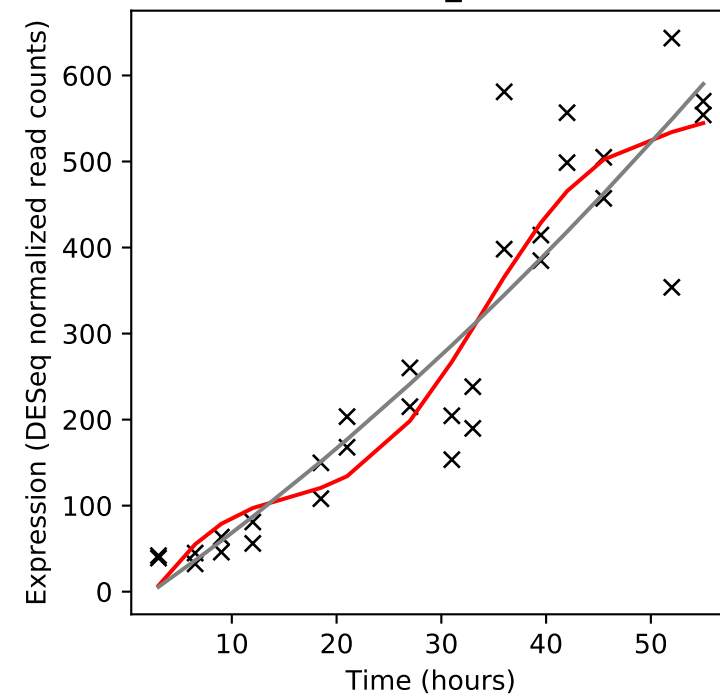
Rv0752c/fadE9



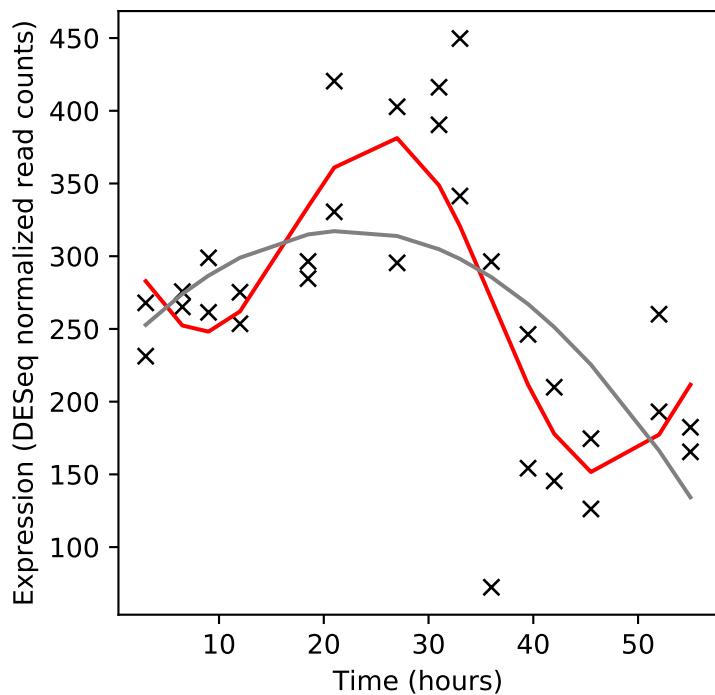
Rv0753c/mmsA



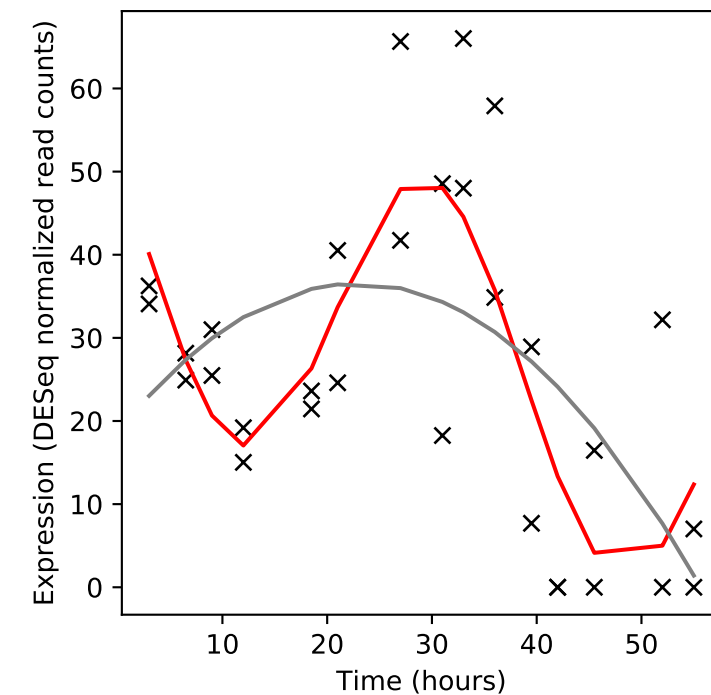
Rv0754/PE_PGRS11



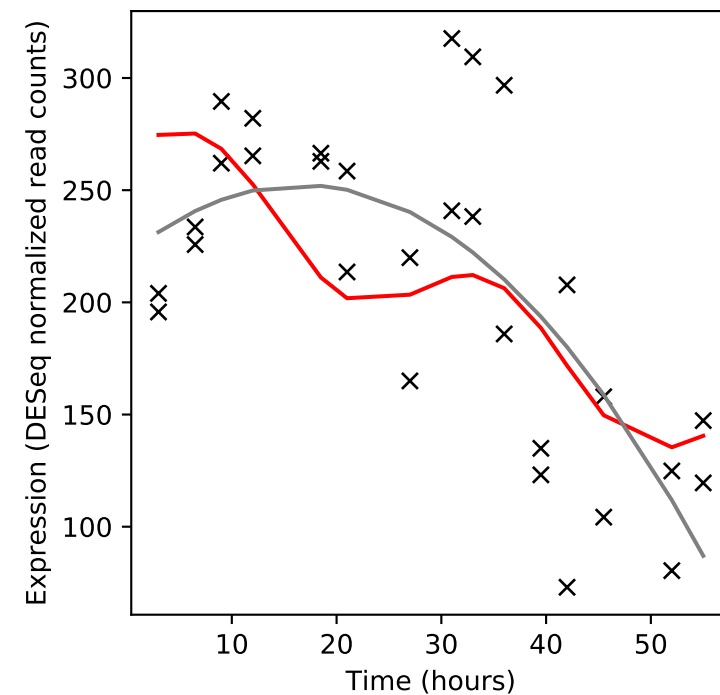
Rv0755c/PPE12



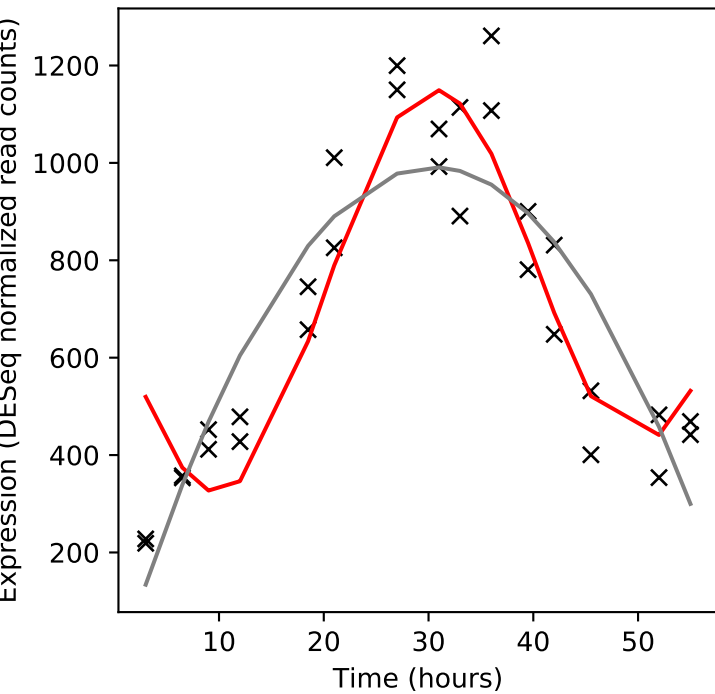
Rv0755A/-



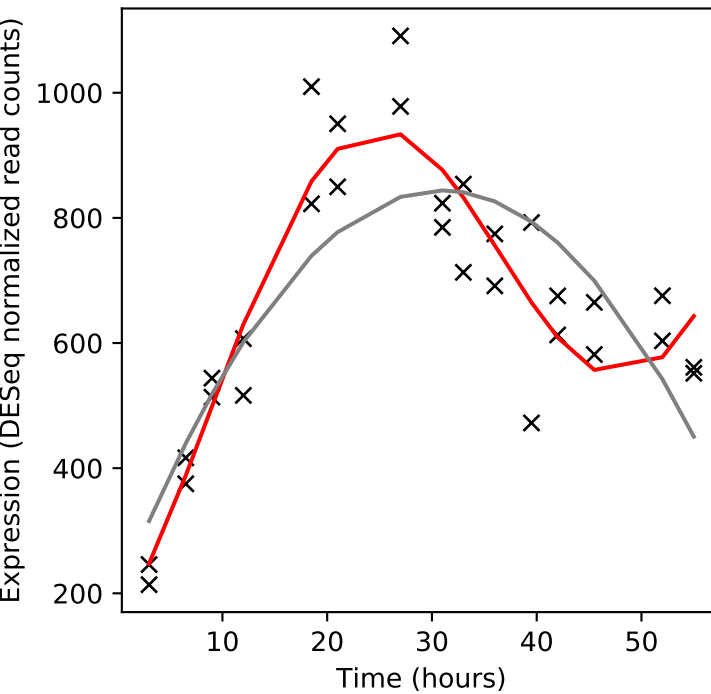
Rv0756c/-



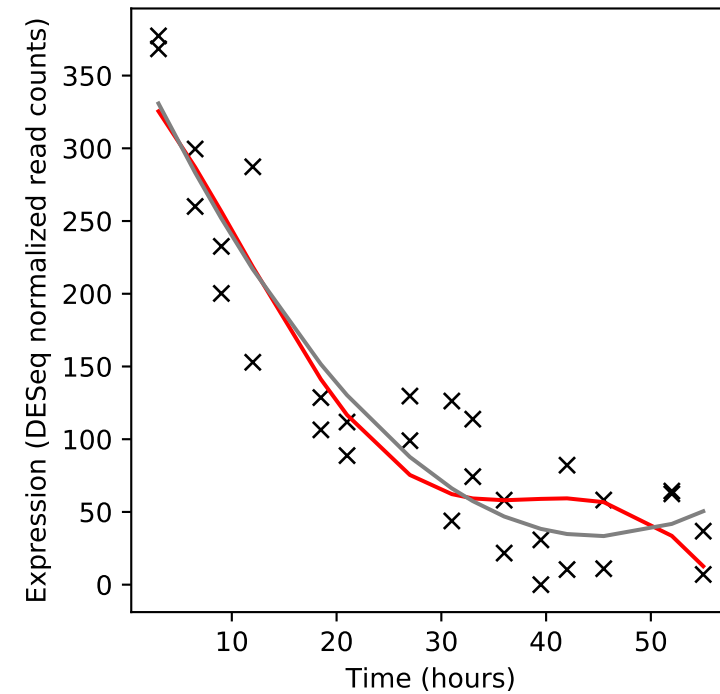
Rv0757/phoP



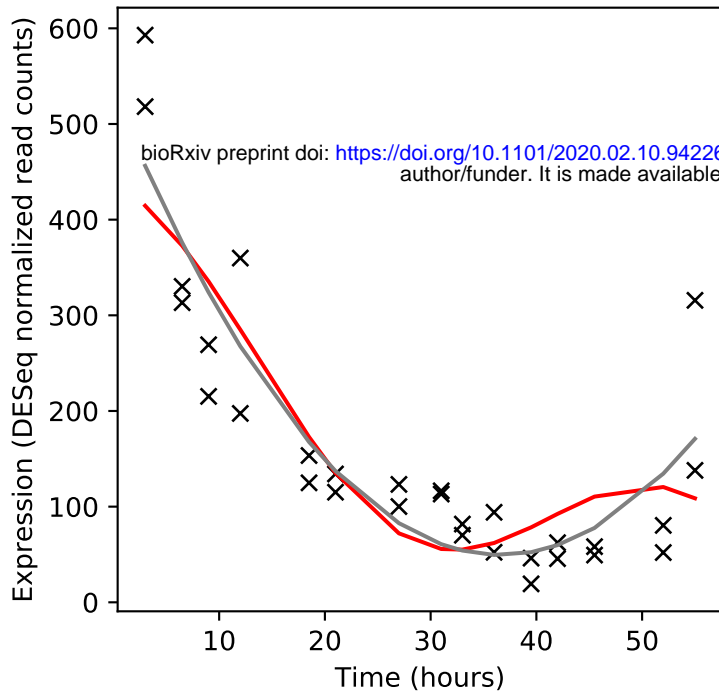
Rv0758/phoR



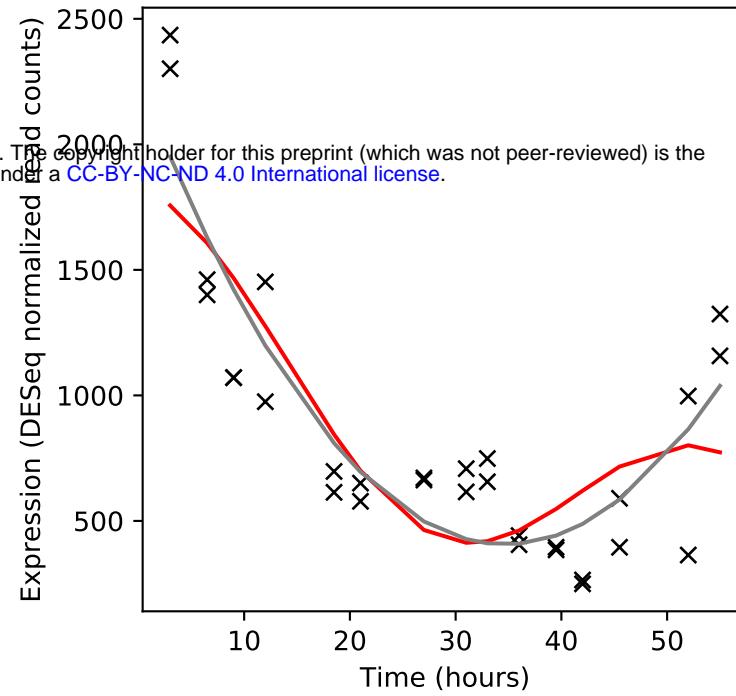
Rv0759c/-



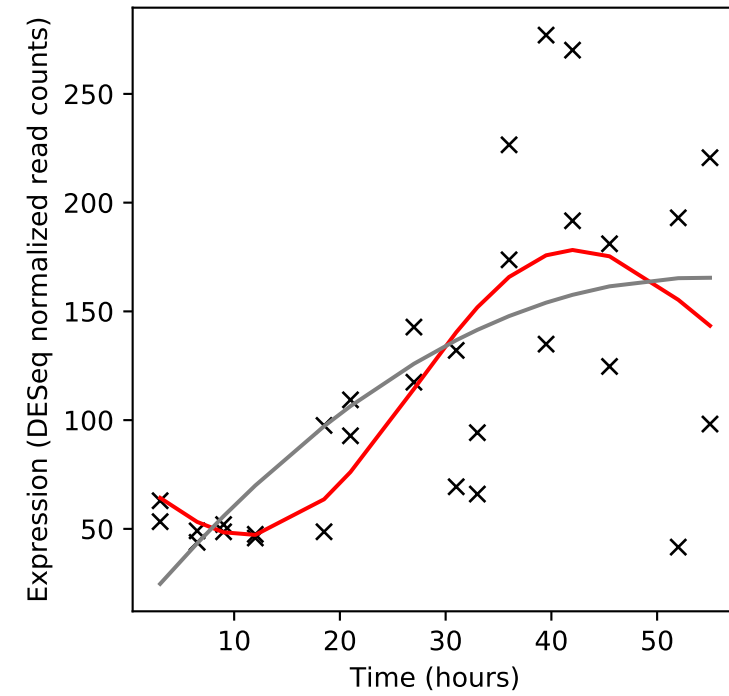
Rv0760c/-



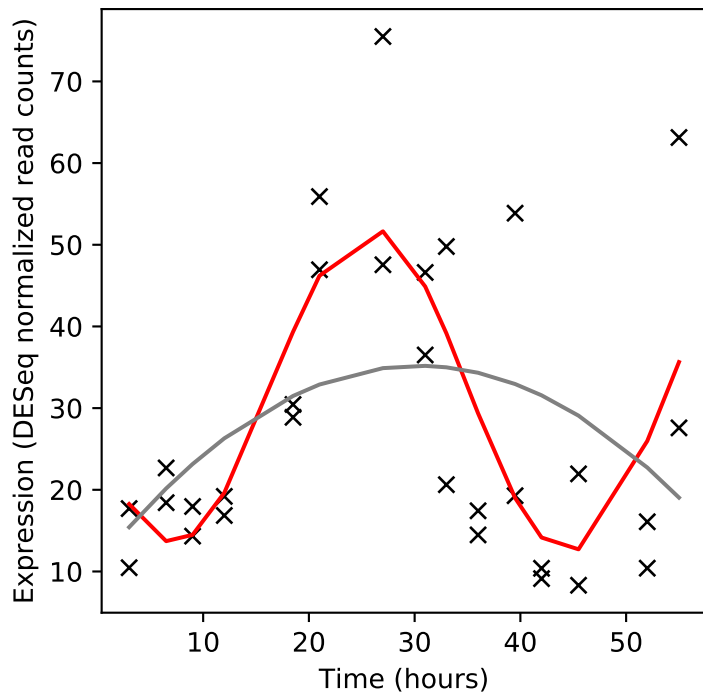
Rv0761c/adhB



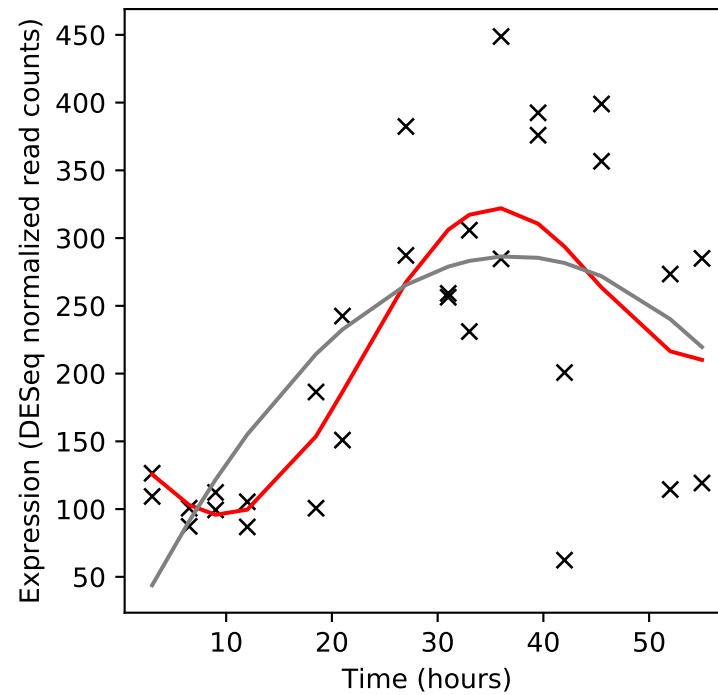
Rv0762c/-



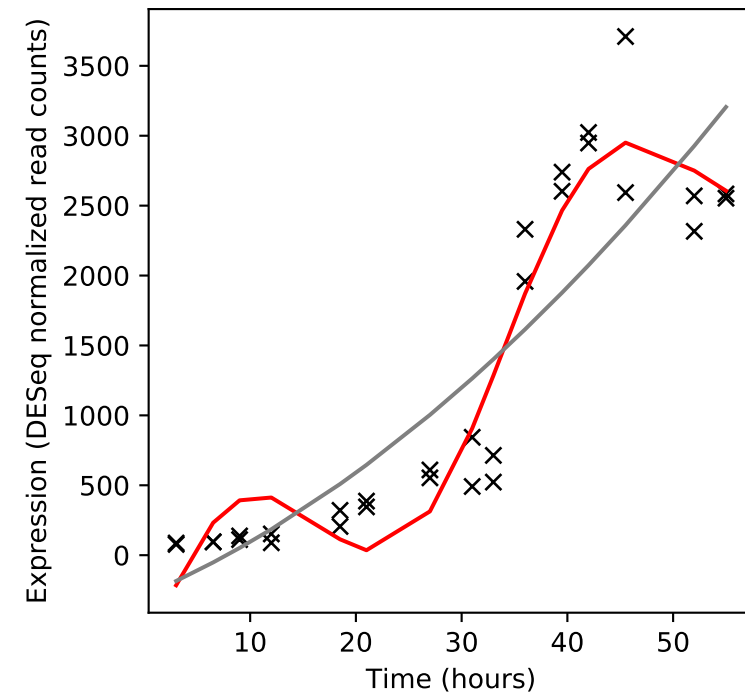
Rv0763c/-



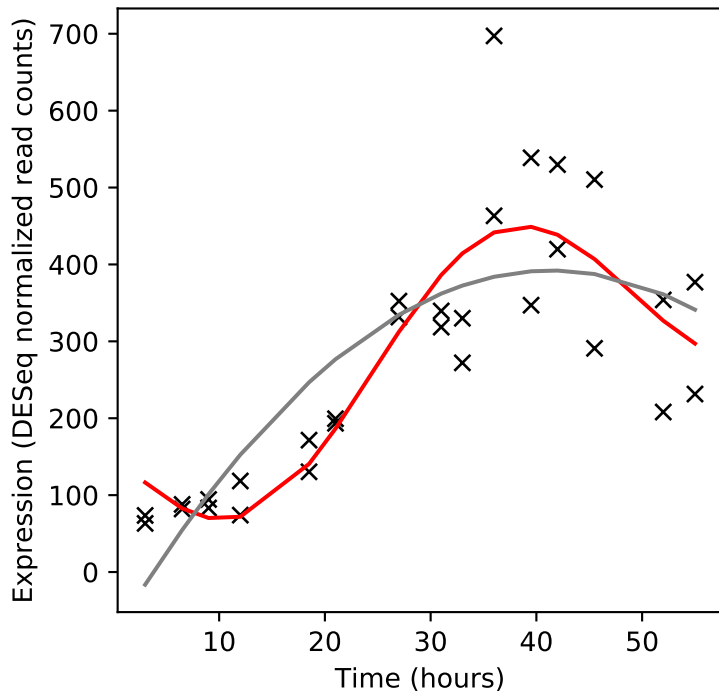
Rv0764c/cyp51



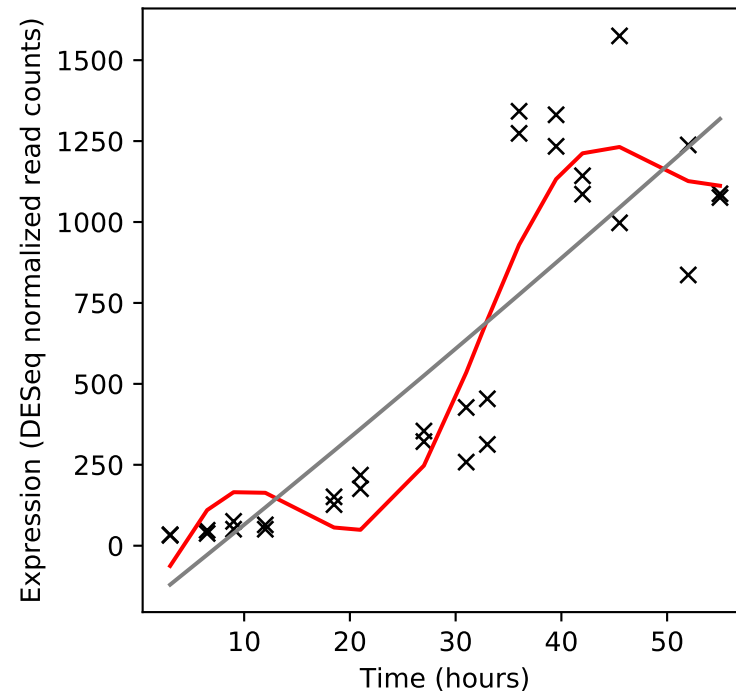
Rv0765c/-



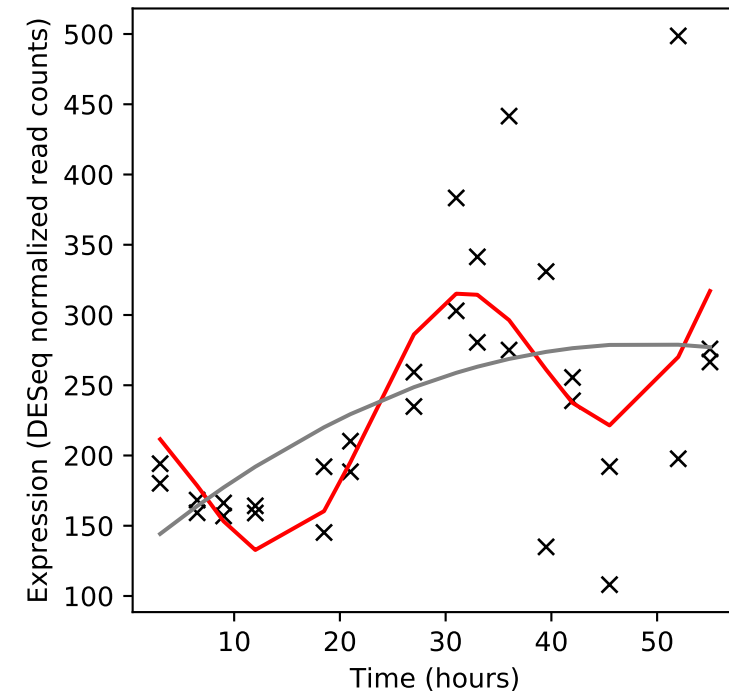
Rv0766c/cyp123



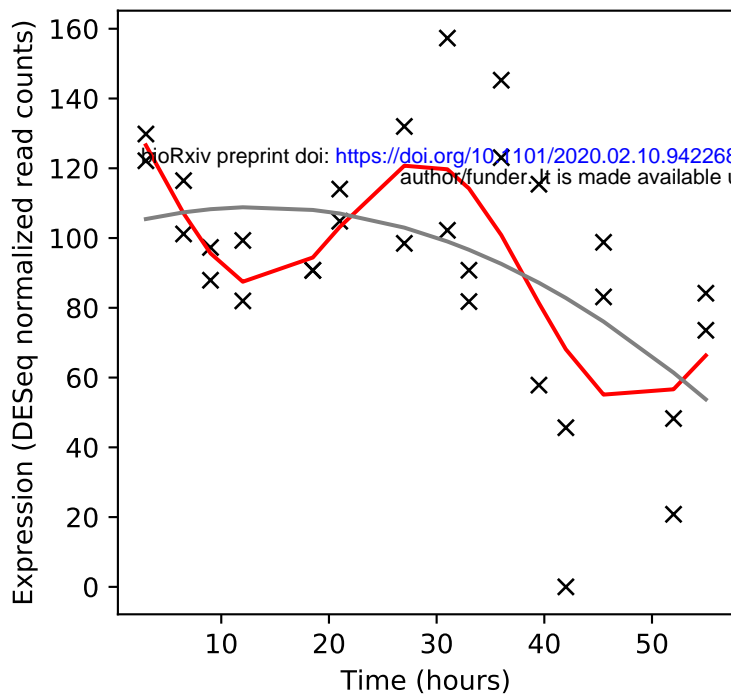
Rv0767c/-



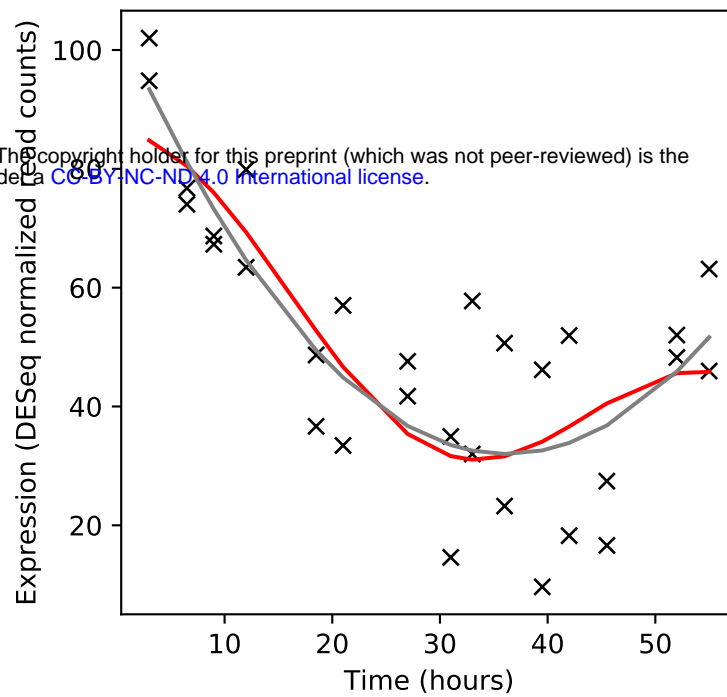
Rv0768/aldA



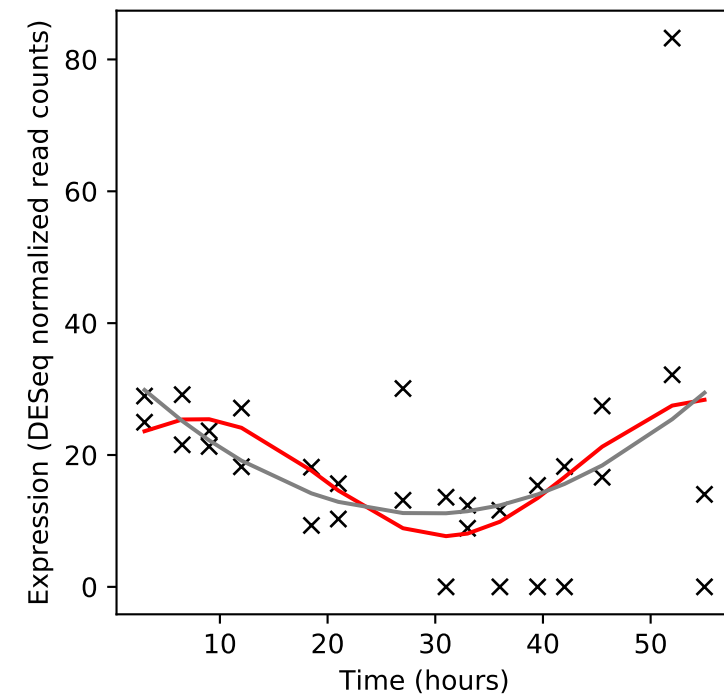
Rv0769/-



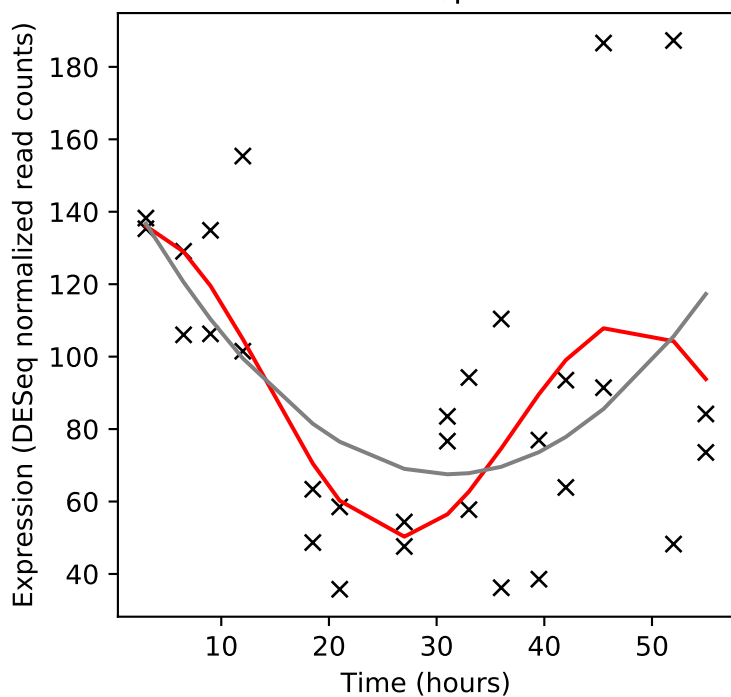
Rv0770/-



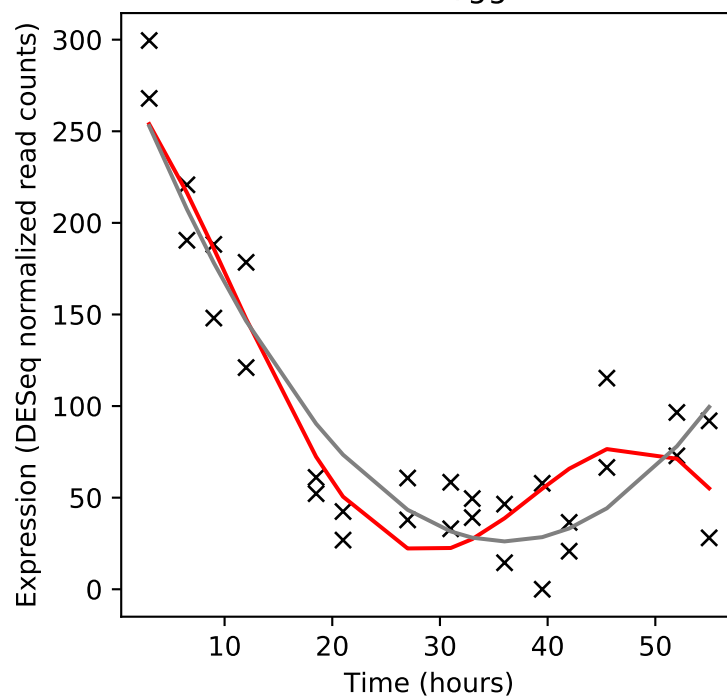
Rv0771/-



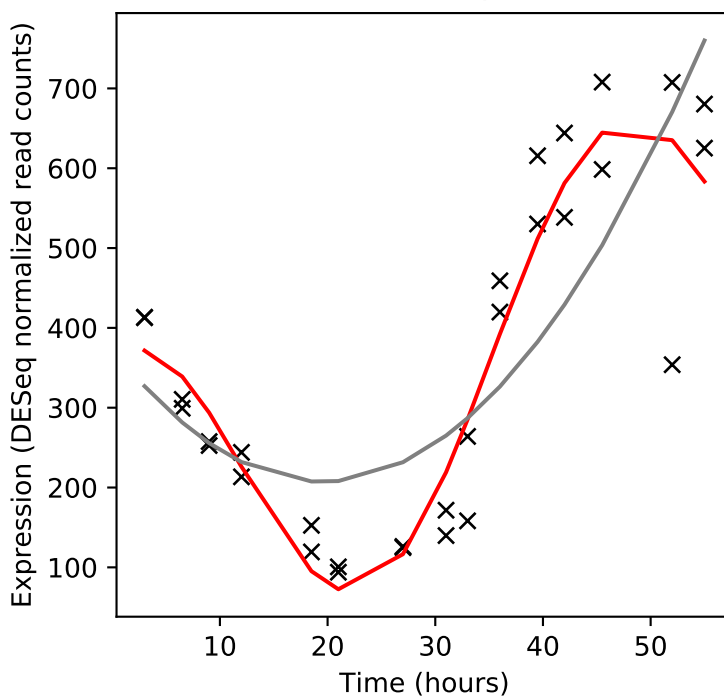
Rv0772/purD



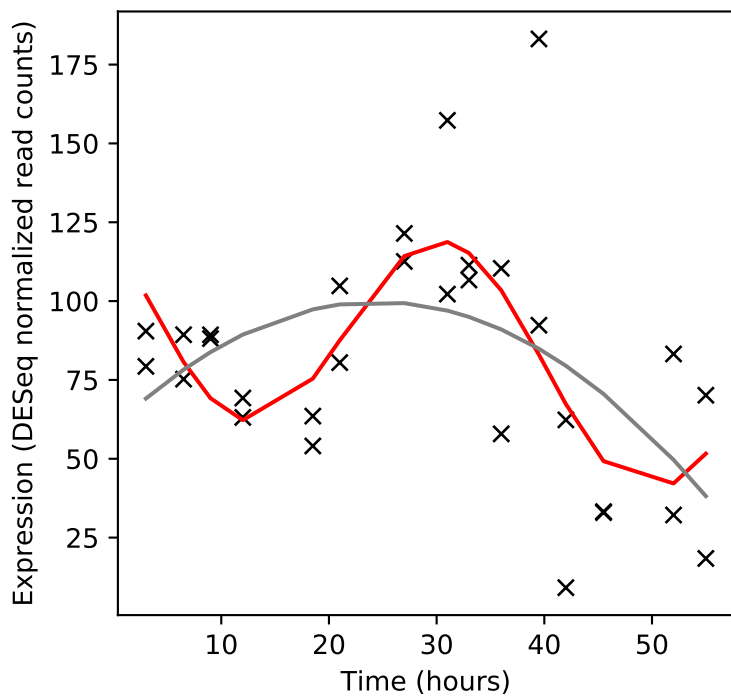
Rv0773c/ggtA



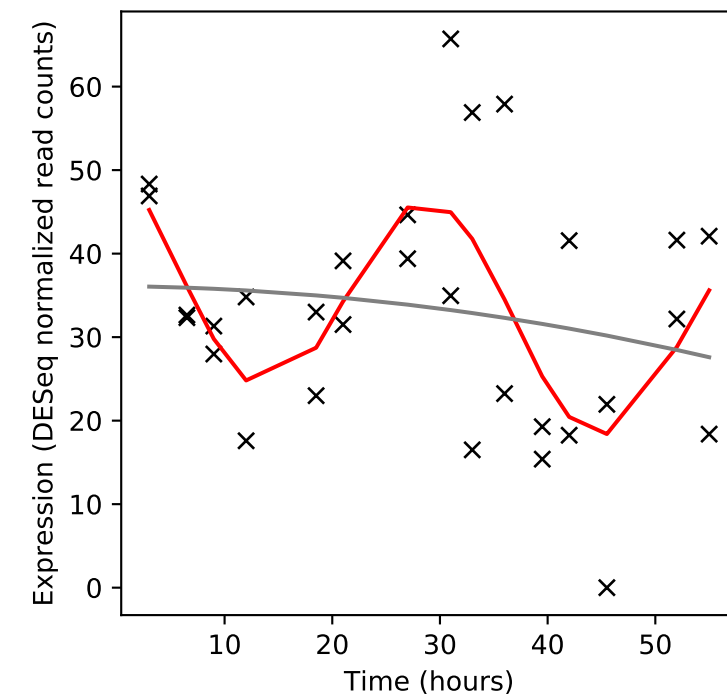
Rv0774c/-



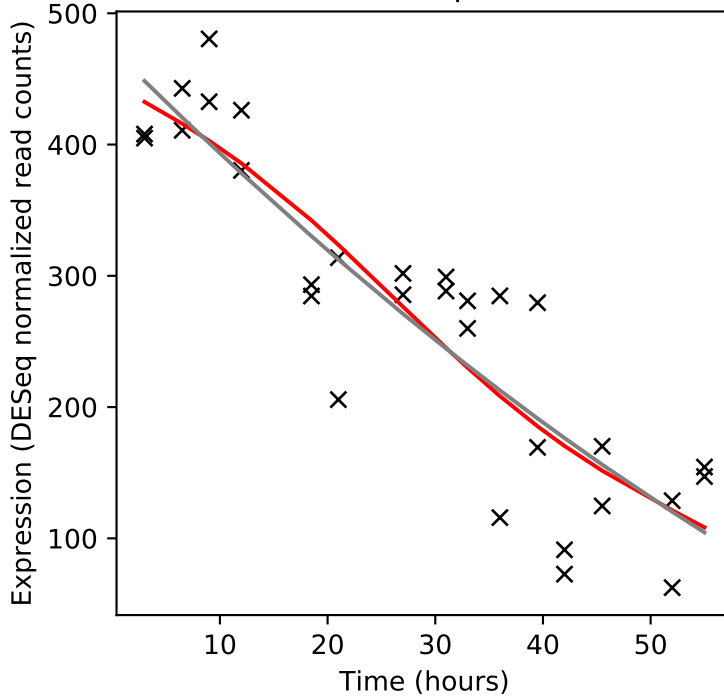
Rv0775/-



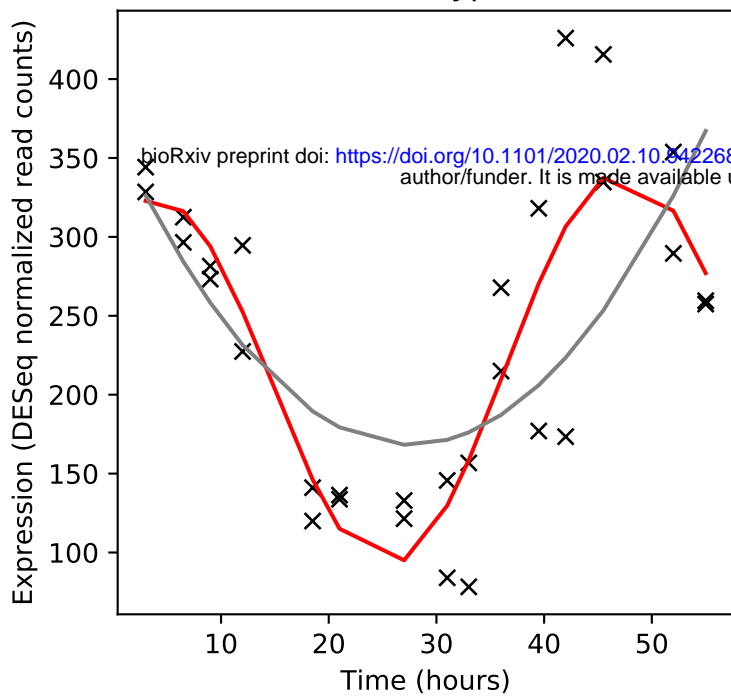
Rv0776c/-



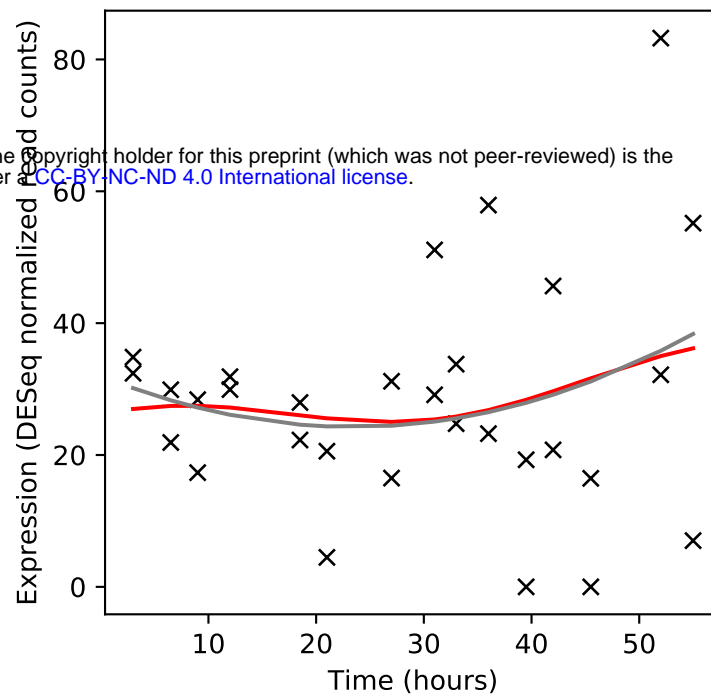
Rv0777/purB



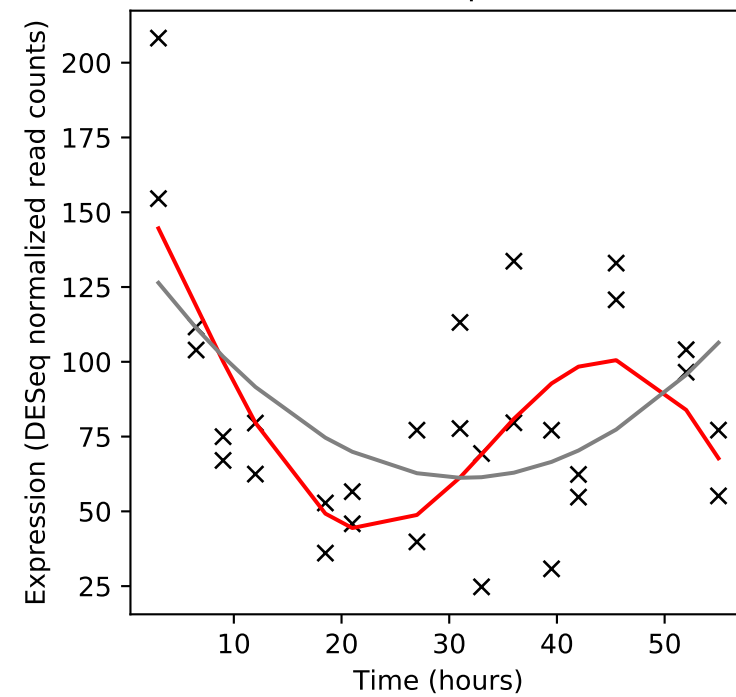
Rv0778/cyp126



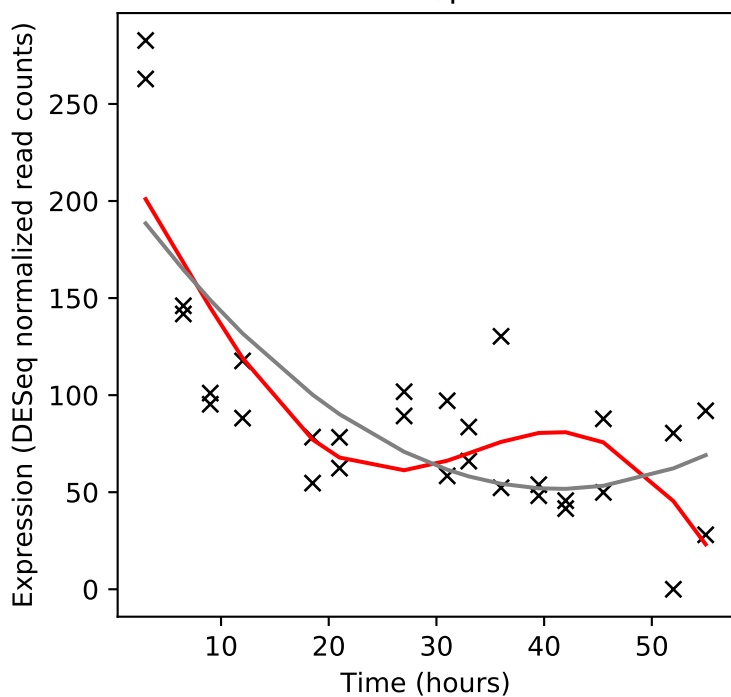
Rv0779c/-



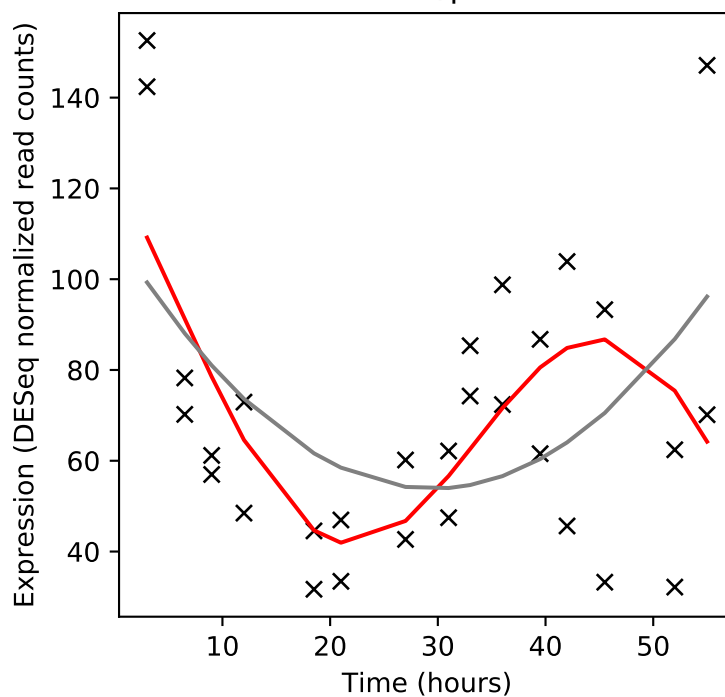
Rv0780/purC



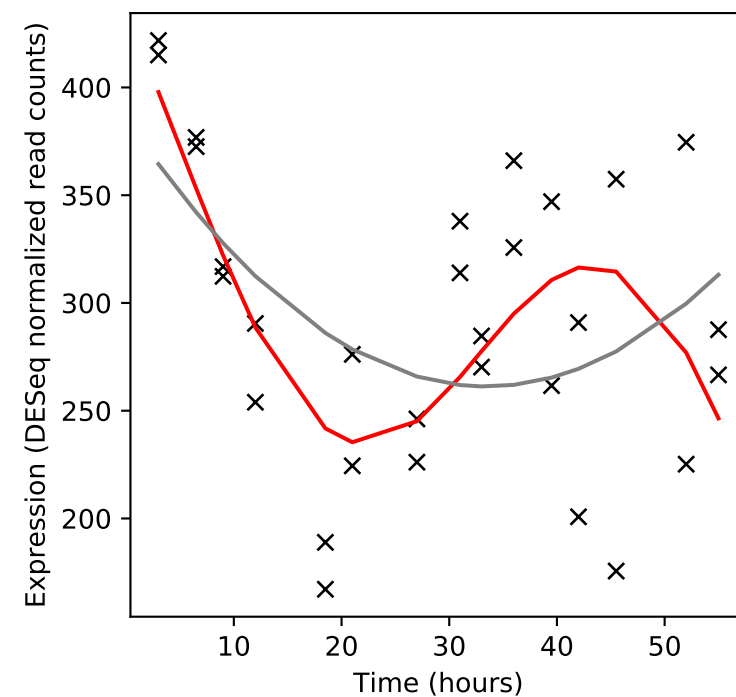
Rv0781/ptrBa



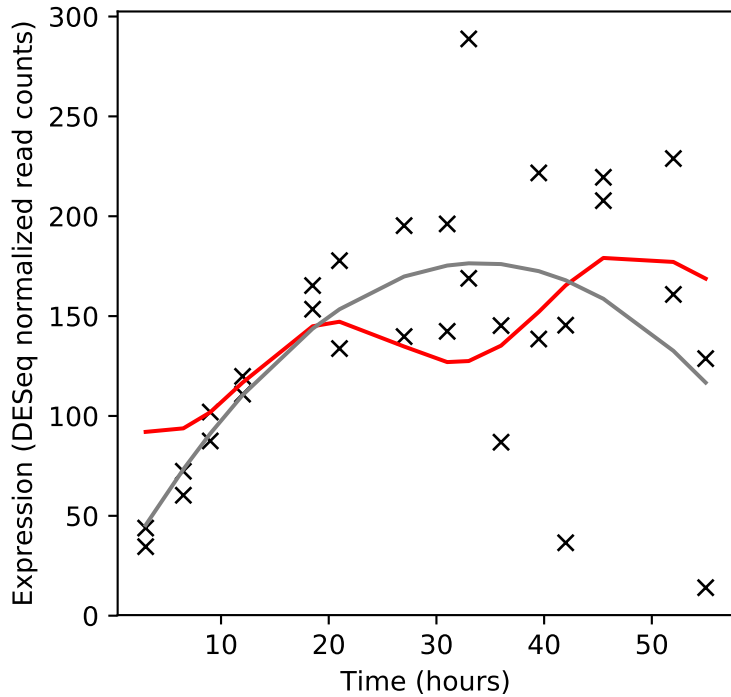
Rv0782/ptrBb



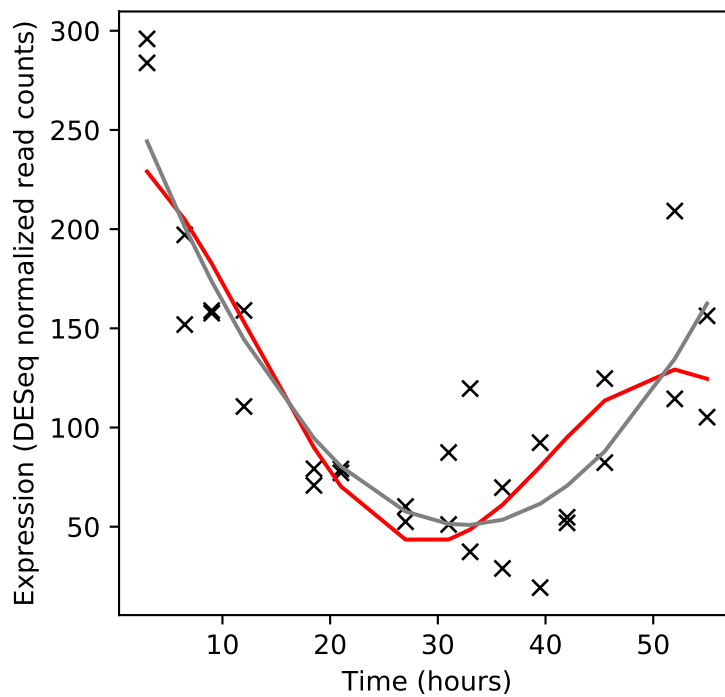
Rv0783c/emrB



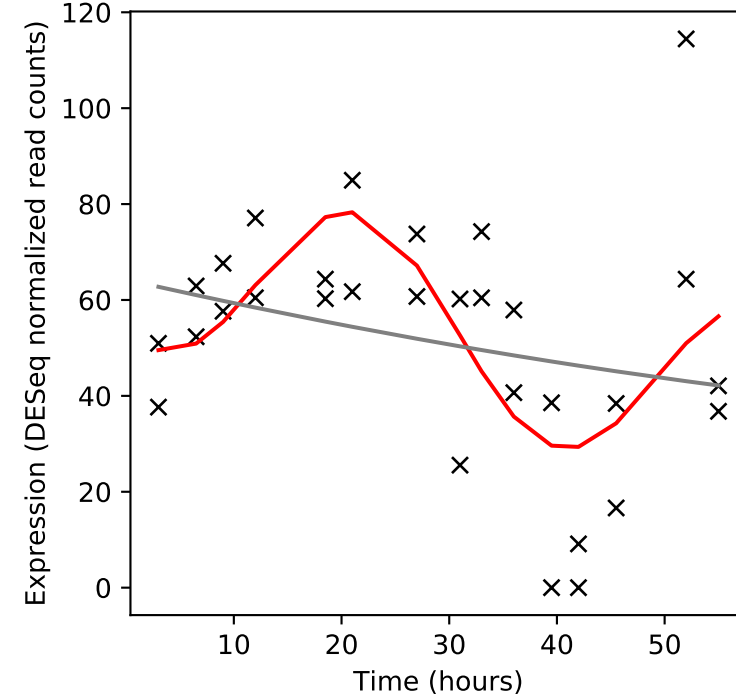
Rv0784/-



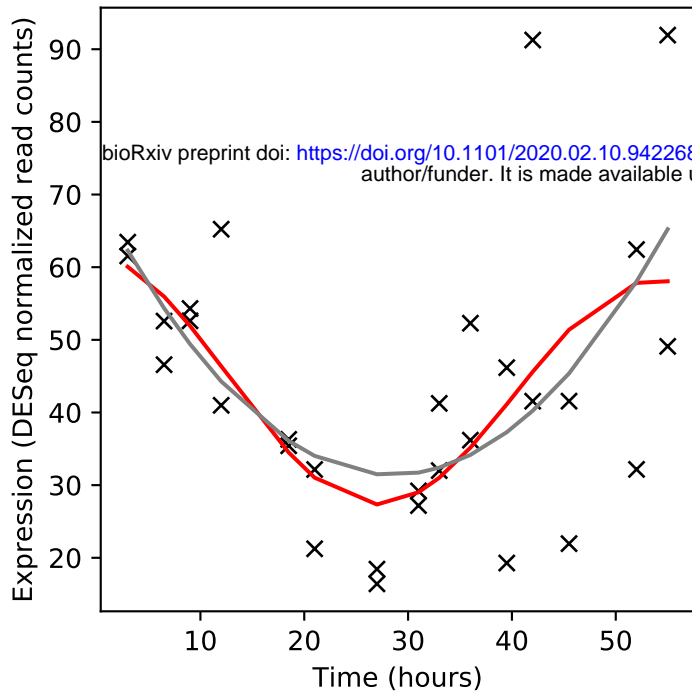
Rv0785/-



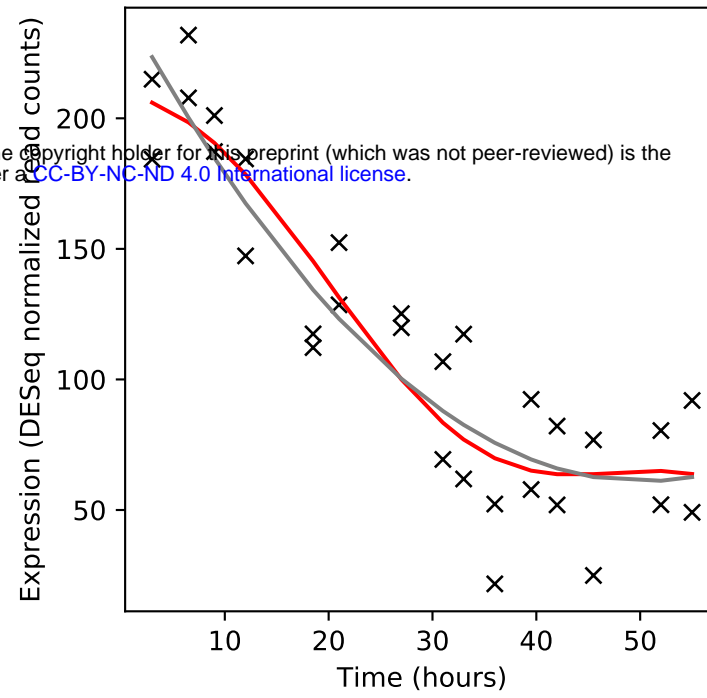
Rv0786c/-



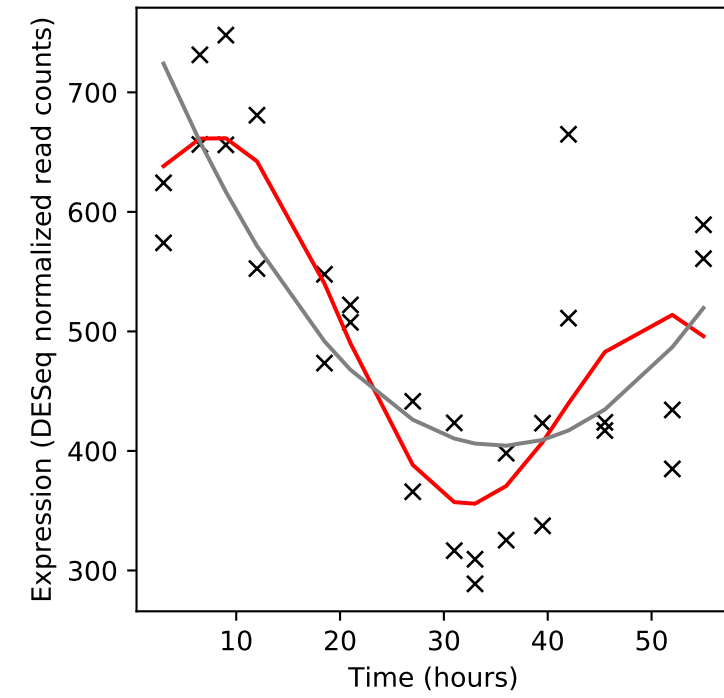
Rv0787/-



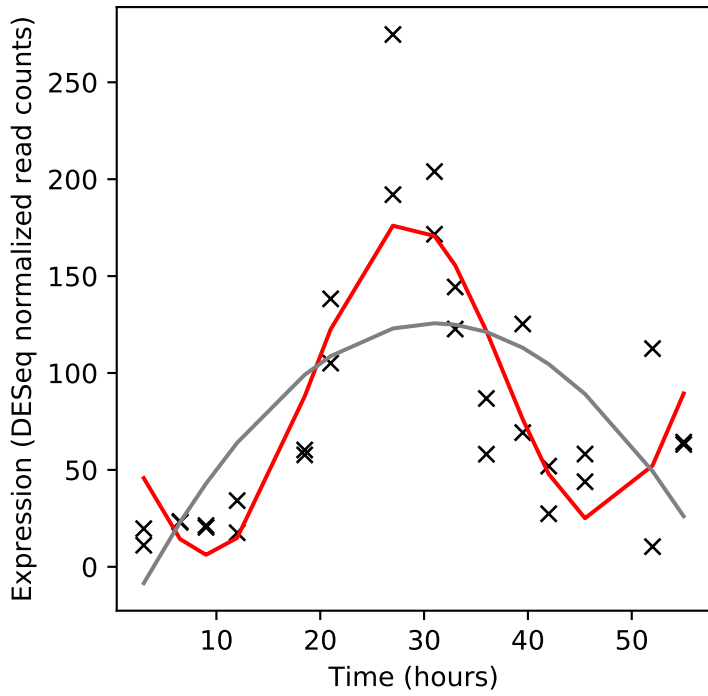
Rv0787A/-



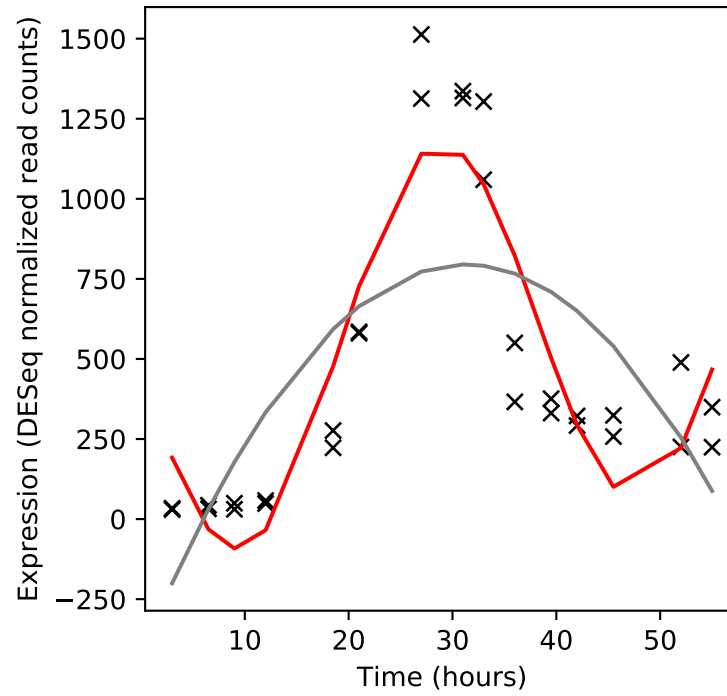
Rv0788/purQ



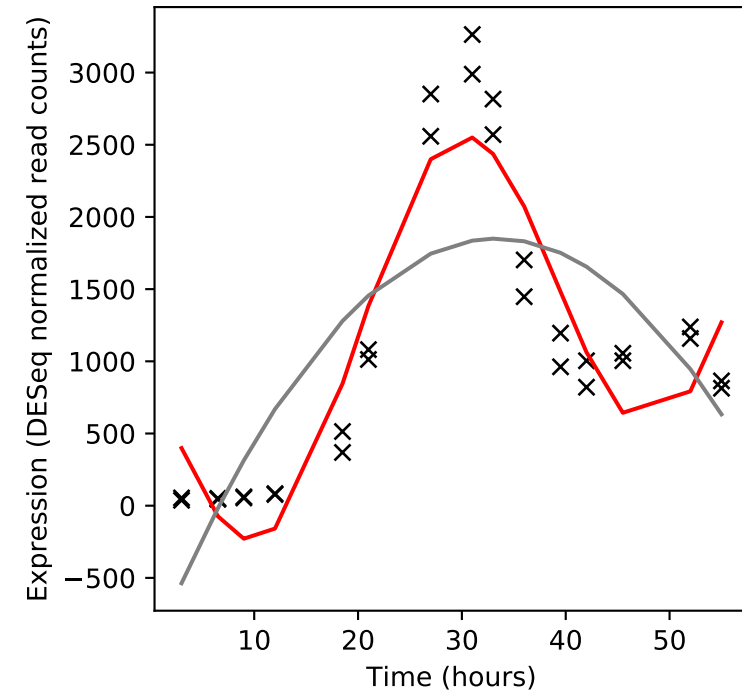
Rv0789c/-



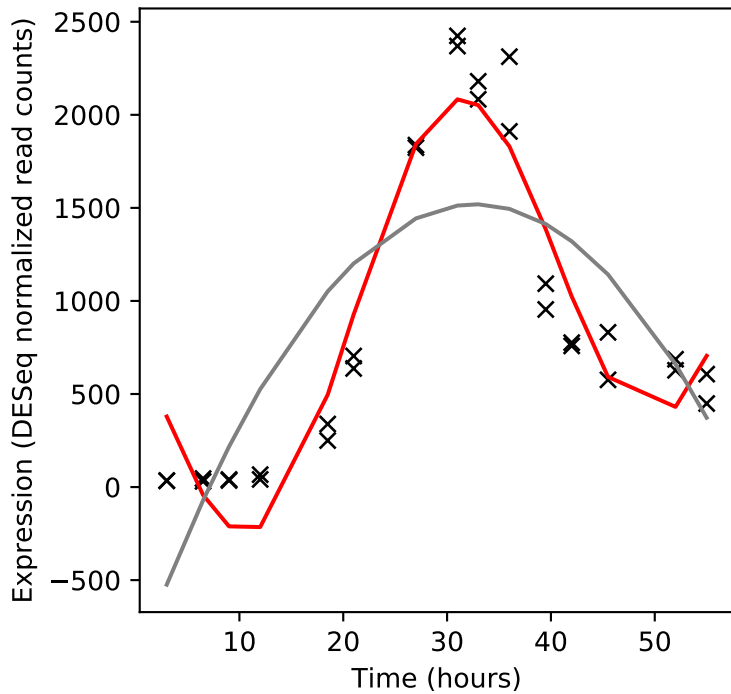
Rv0790c/-



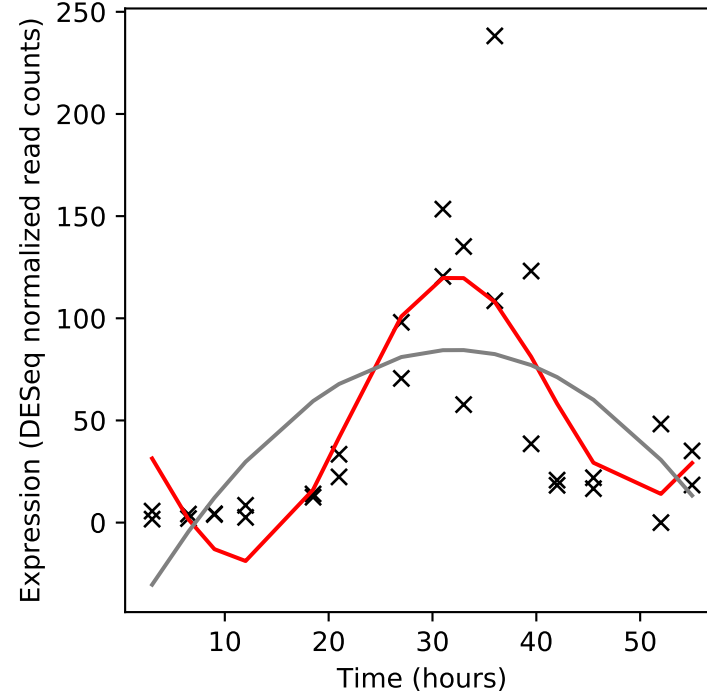
Rv0791c/-



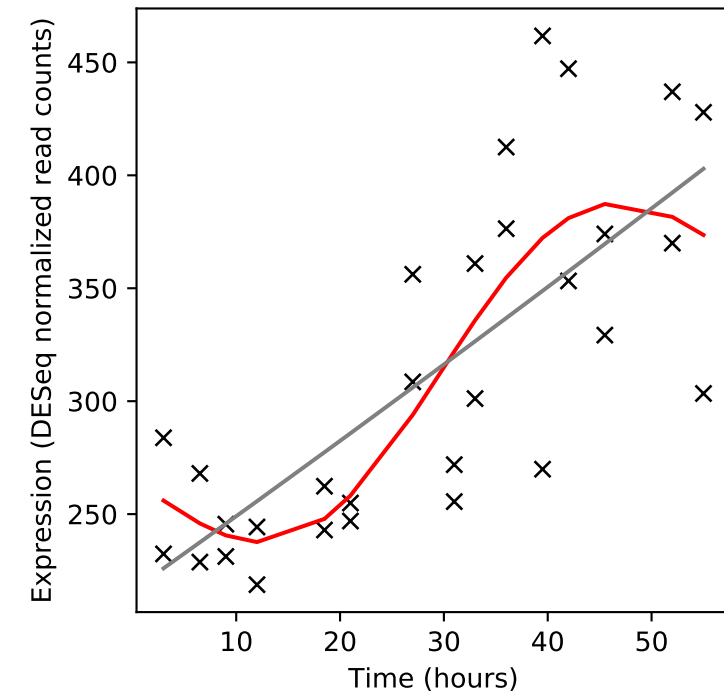
Rv0792c/-



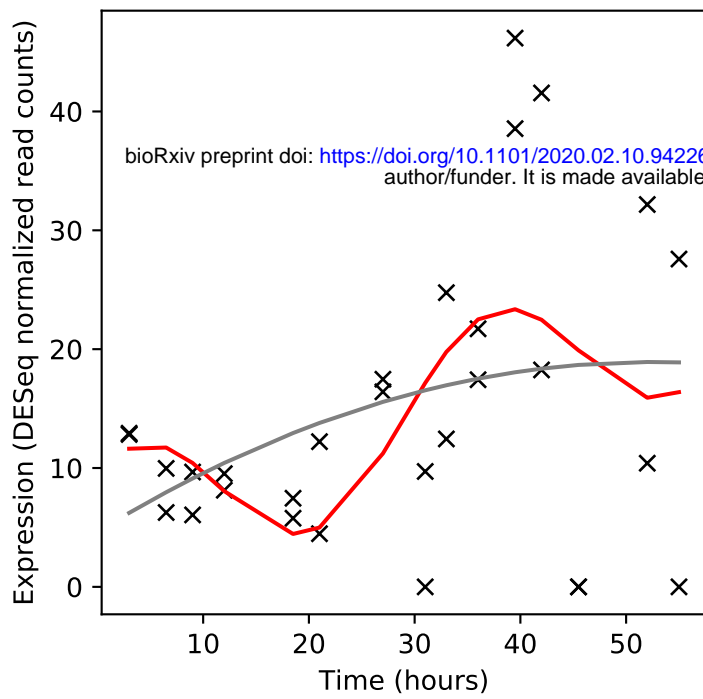
Rv0793/-



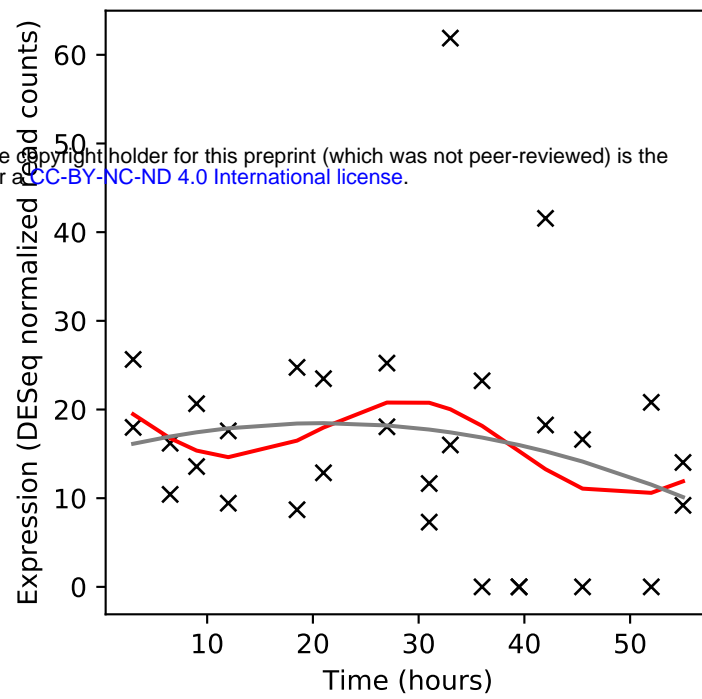
Rv0794c/-



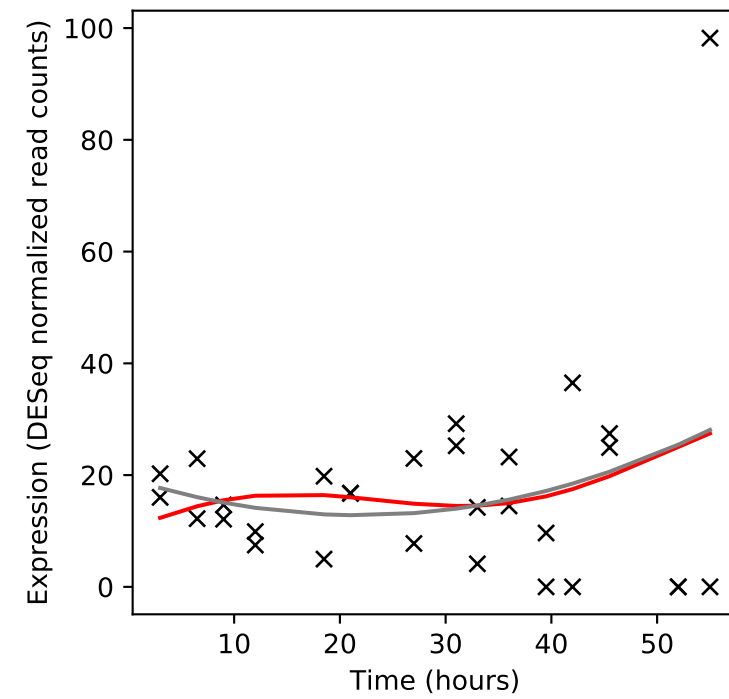
Rv0795/-



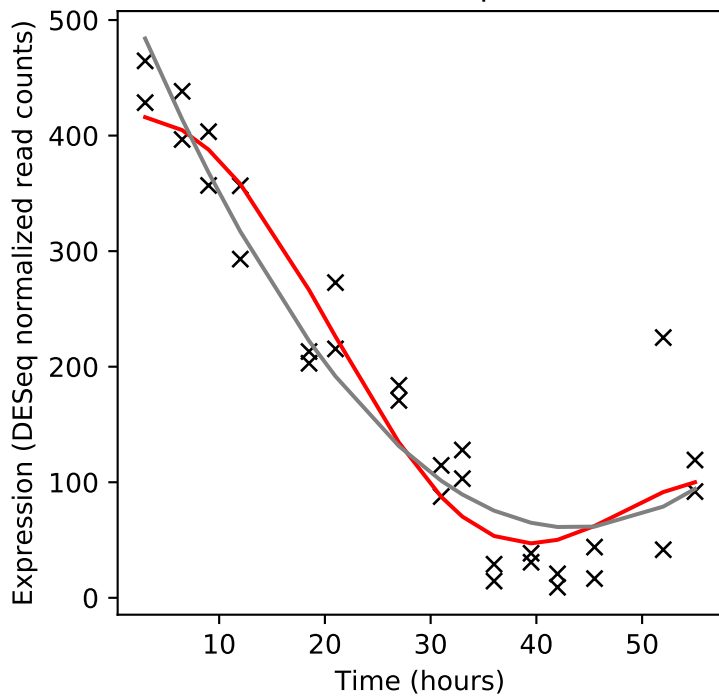
Rv0796/-



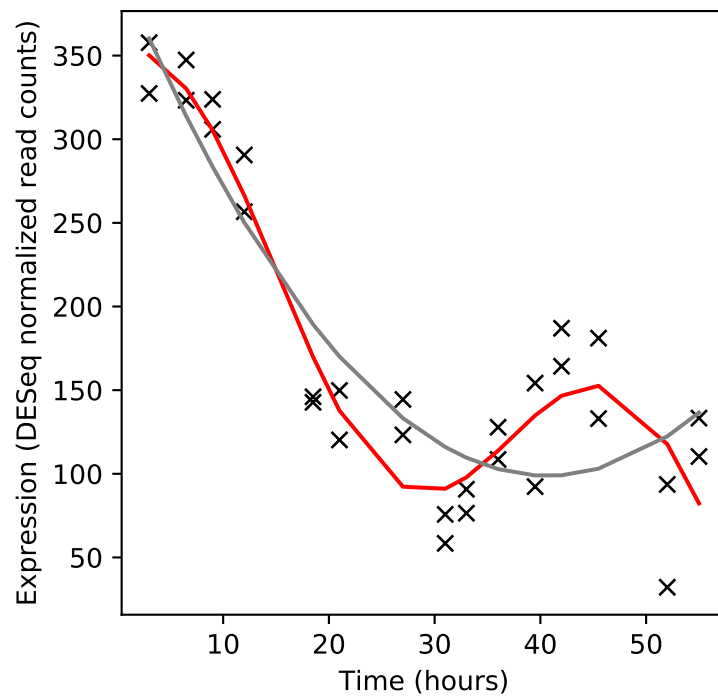
Rv0797/-



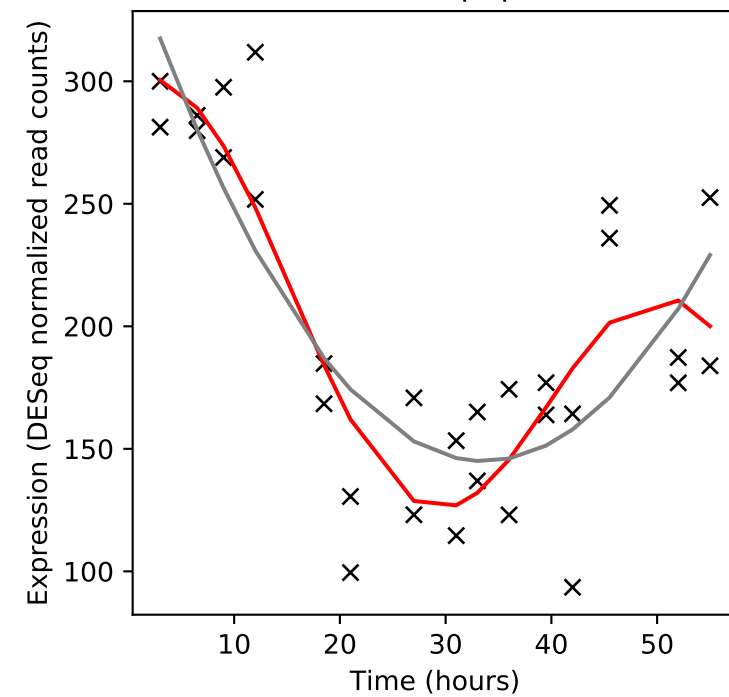
Rv0798c/cfp29



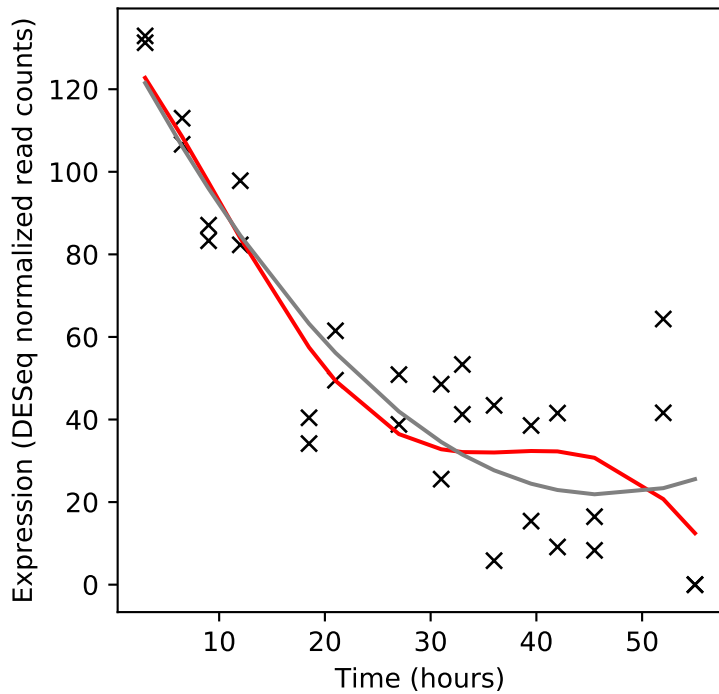
Rv0799c/-



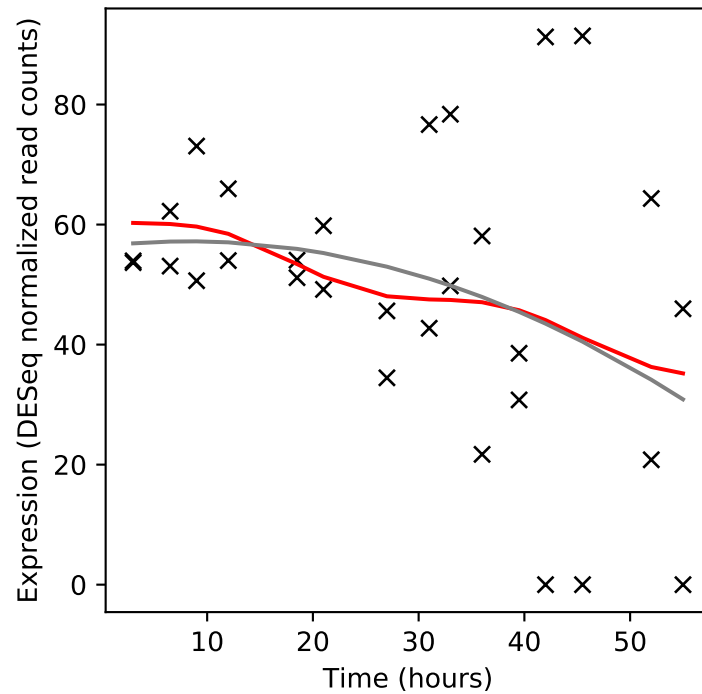
Rv0800/pepC



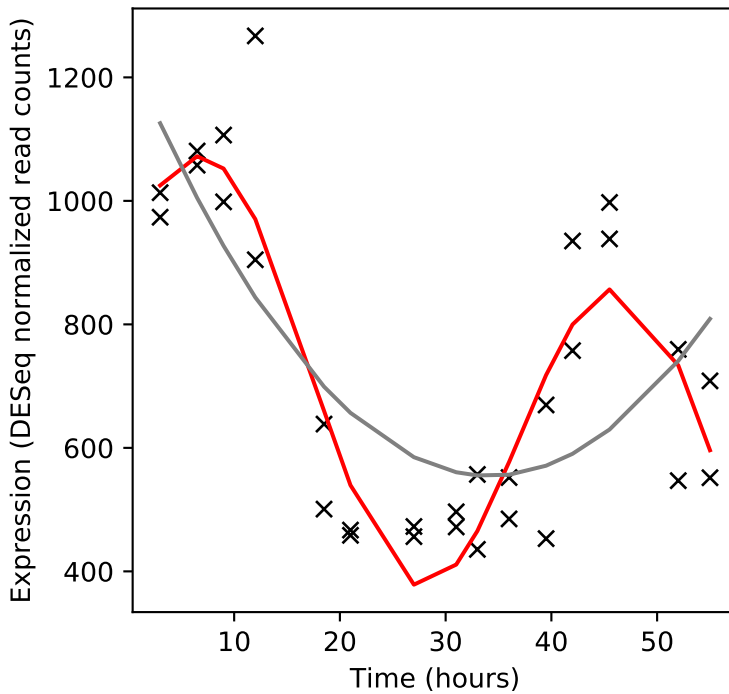
Rv0801/-



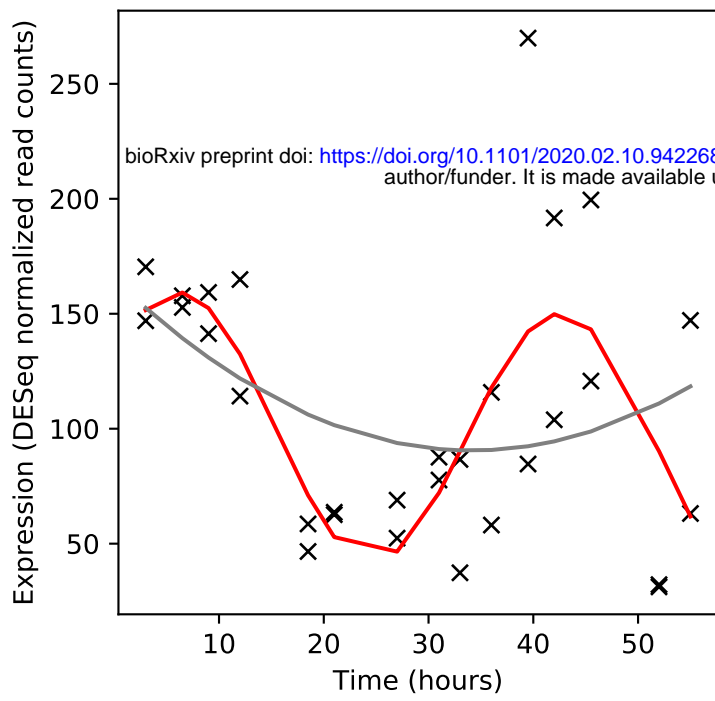
Rv0802c/-



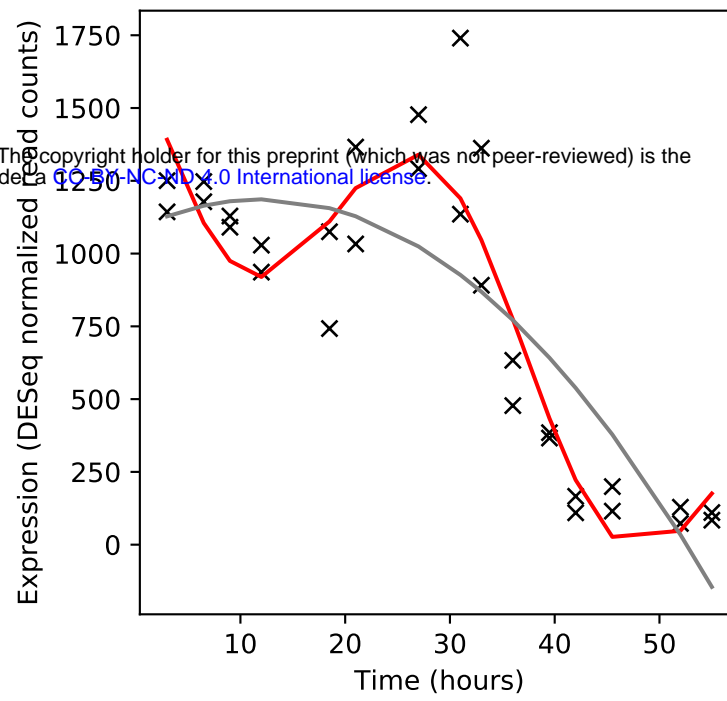
Rv0803/purL



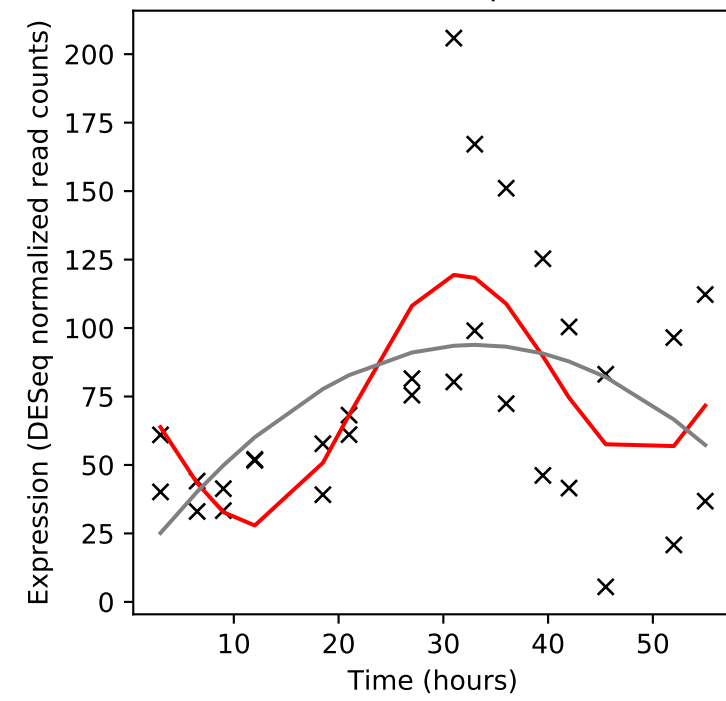
Rv0804/-



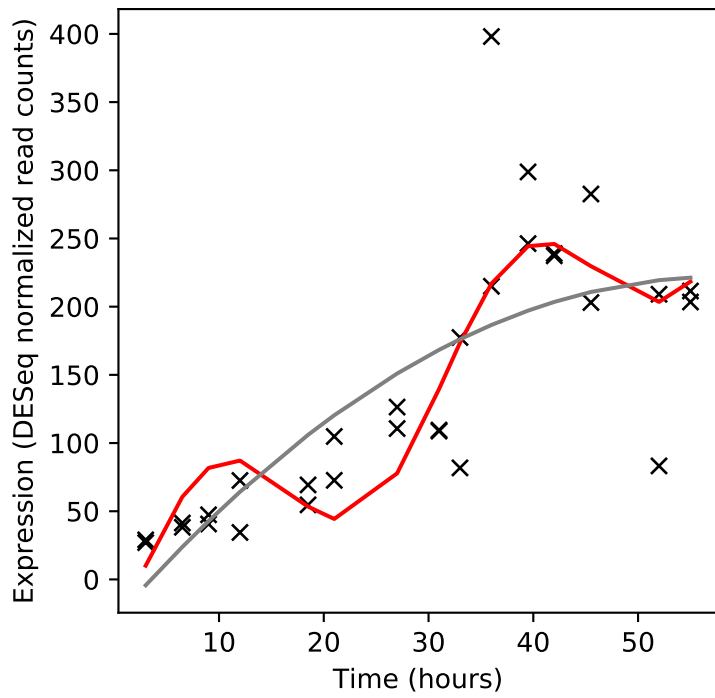
Rv0805/-



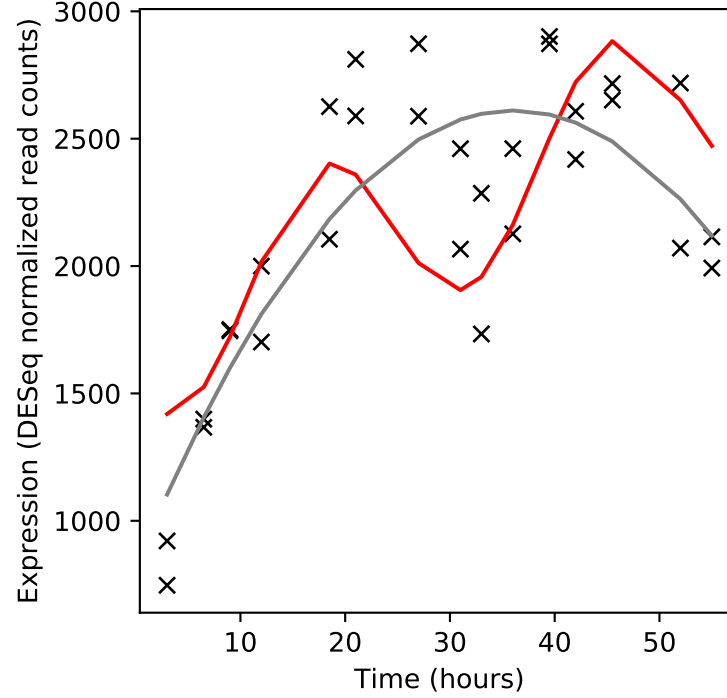
Rv0806c/cpsY



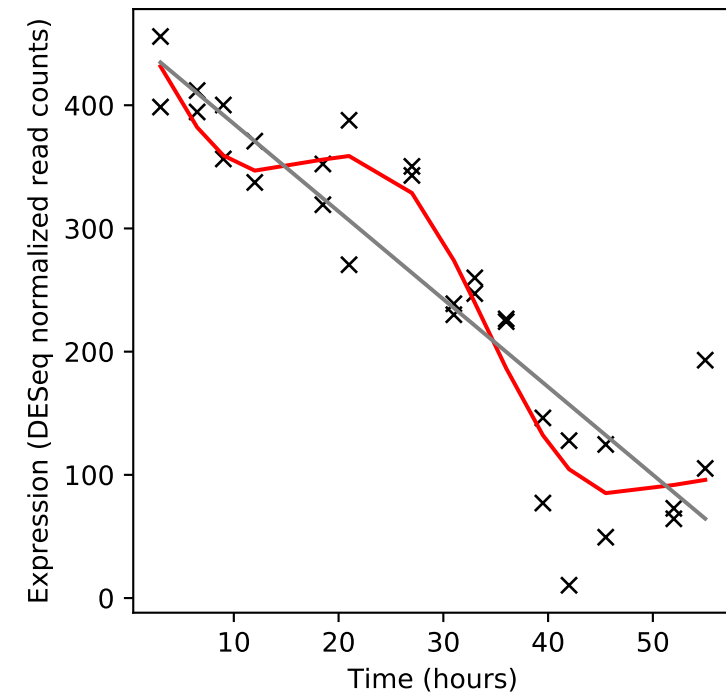
Rv0807/-



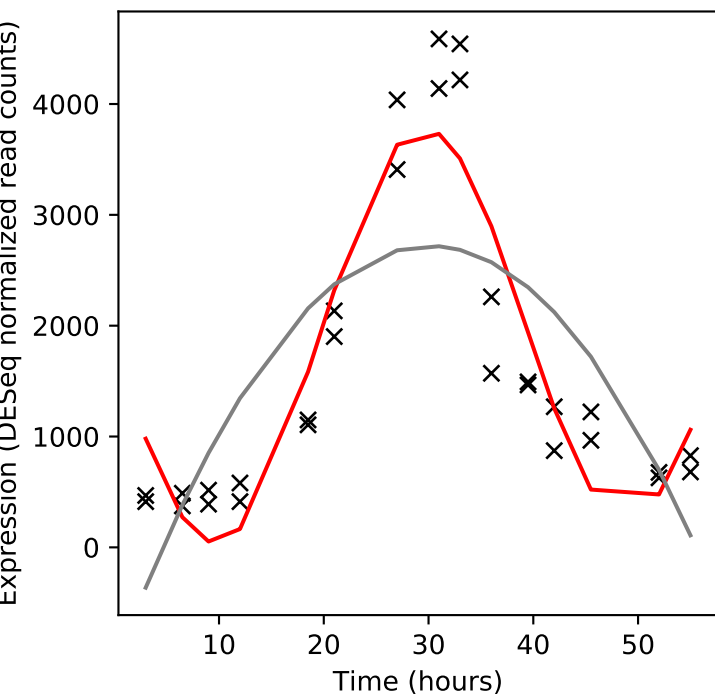
Rv0808/purF



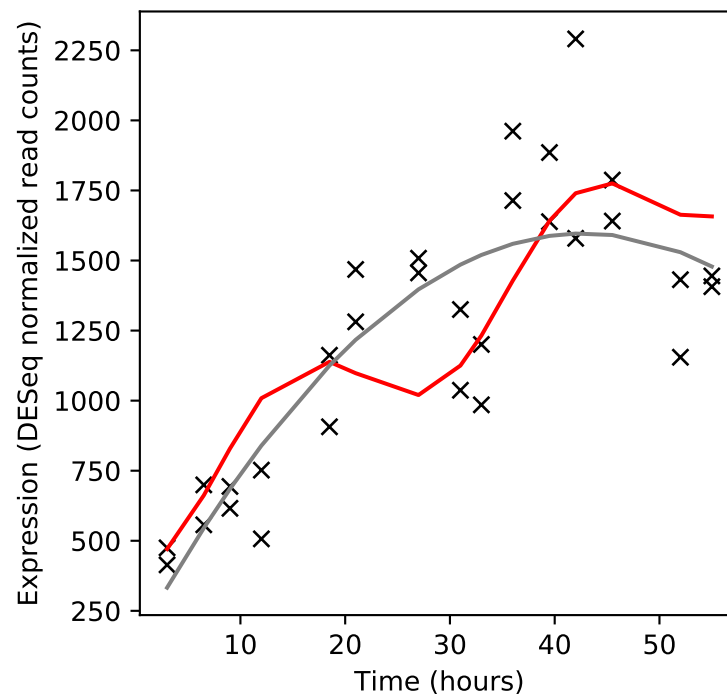
Rv0809/purM



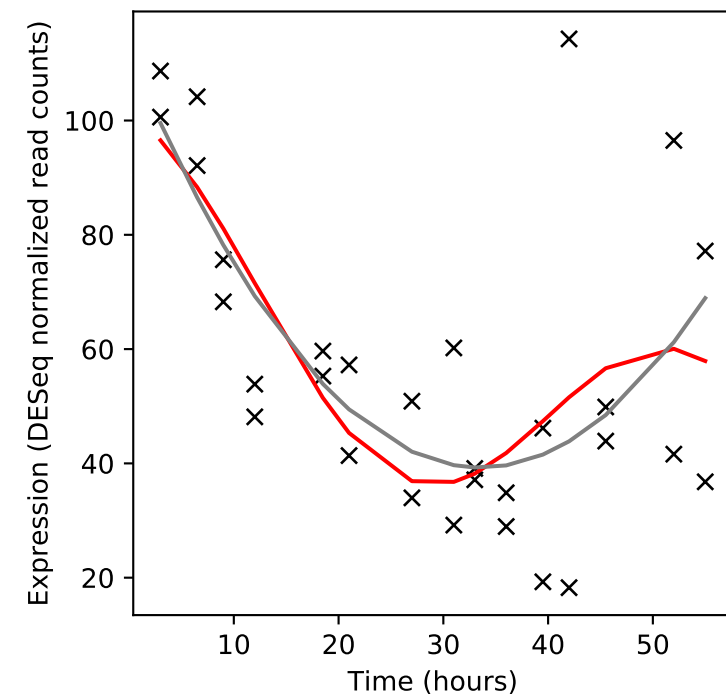
Rv0810c/-



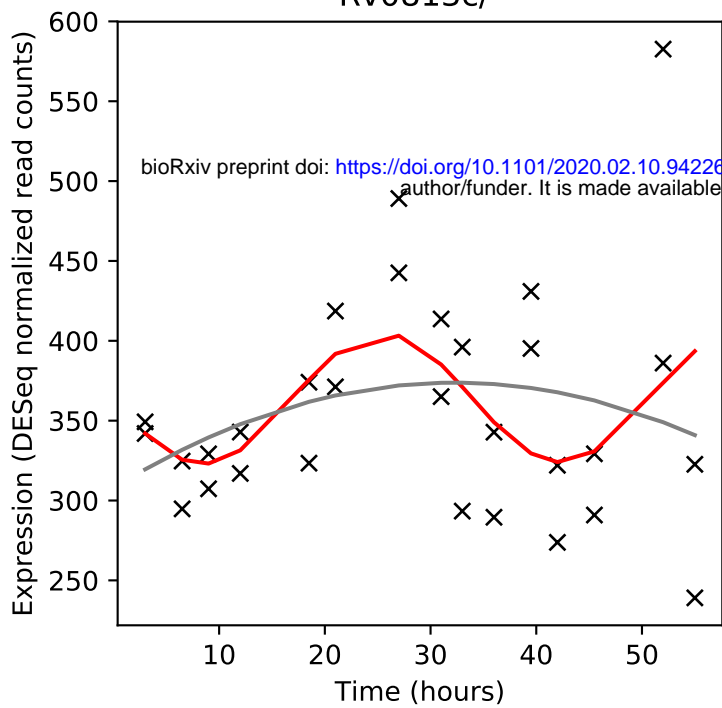
Rv0811c/-



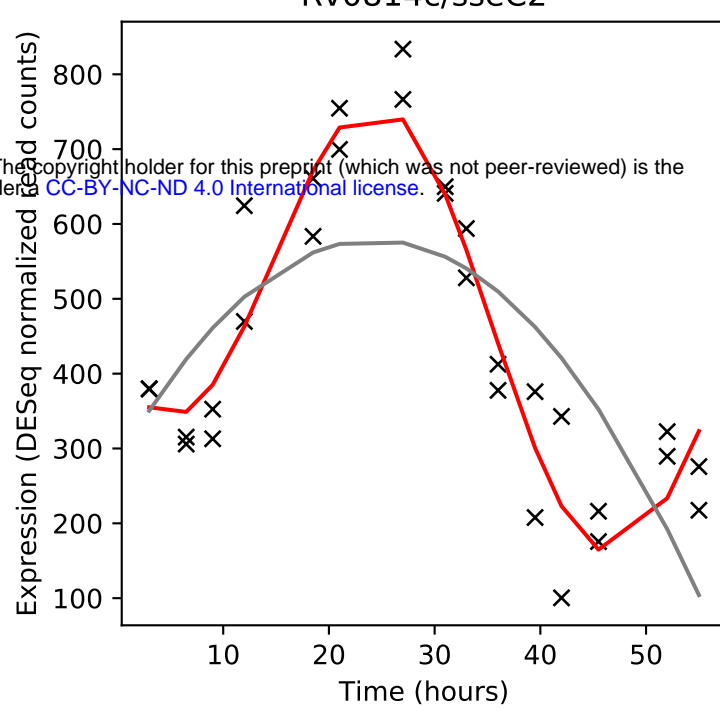
Rv0812/-



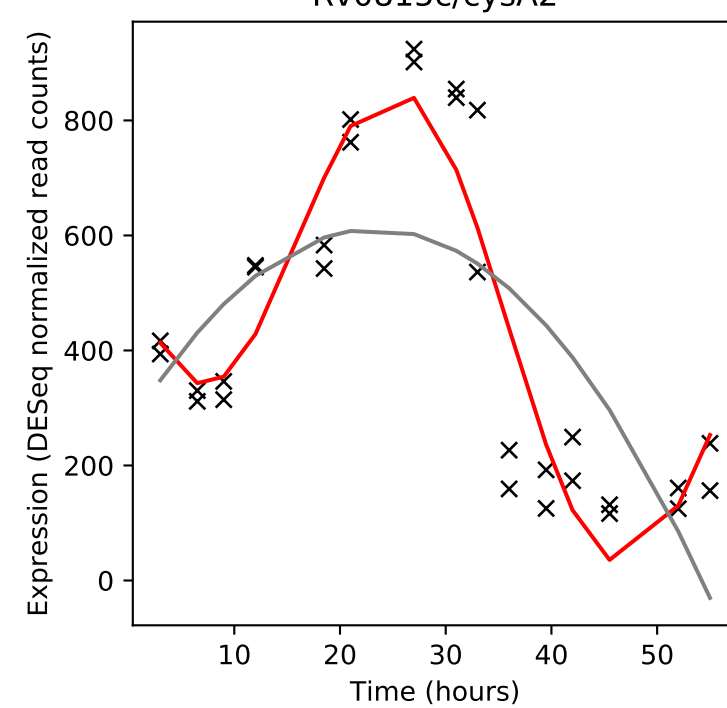
Rv0813c/-



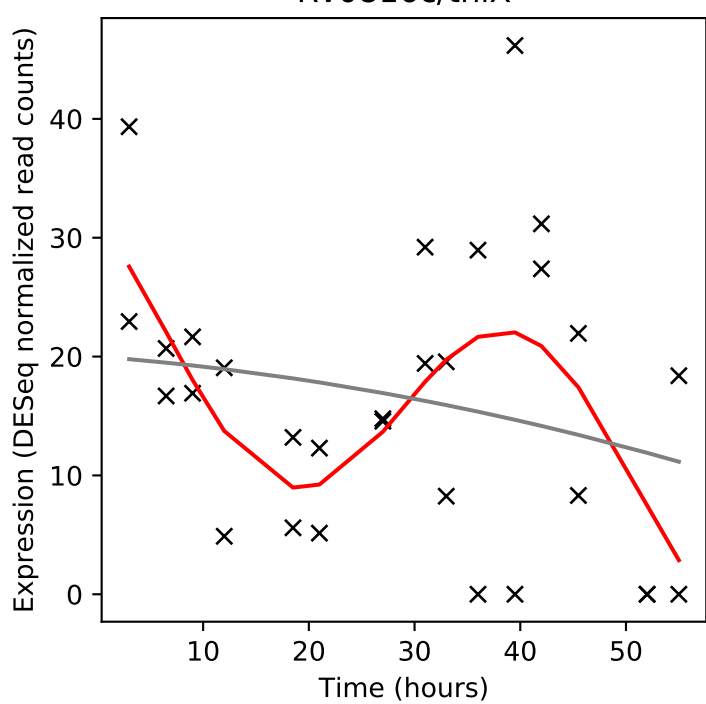
Rv0814c/sseC2



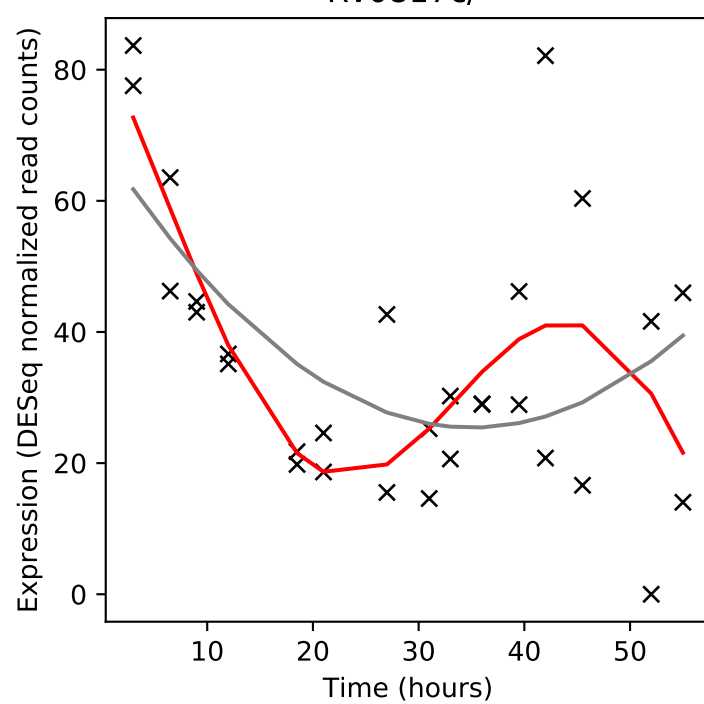
Rv0815c/cysA2



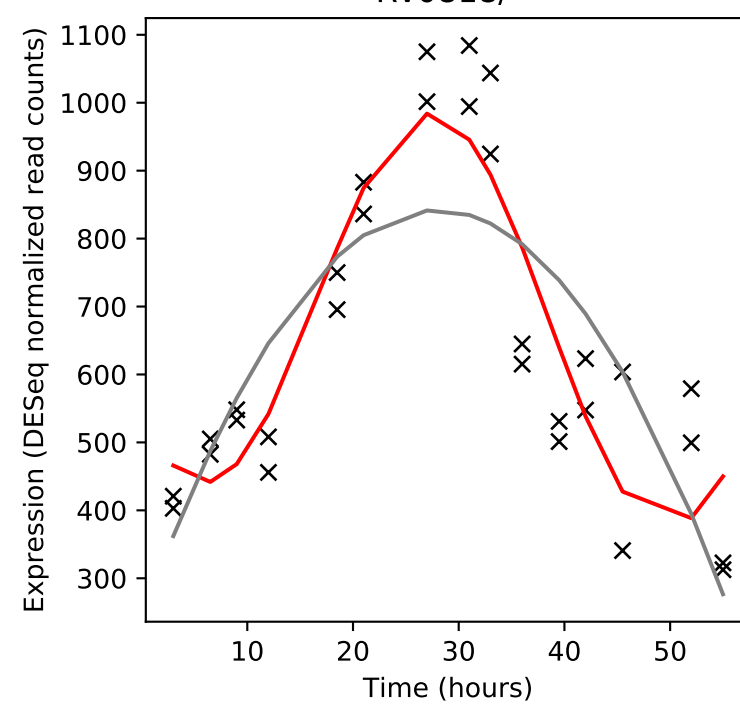
Rv0816c/thiX



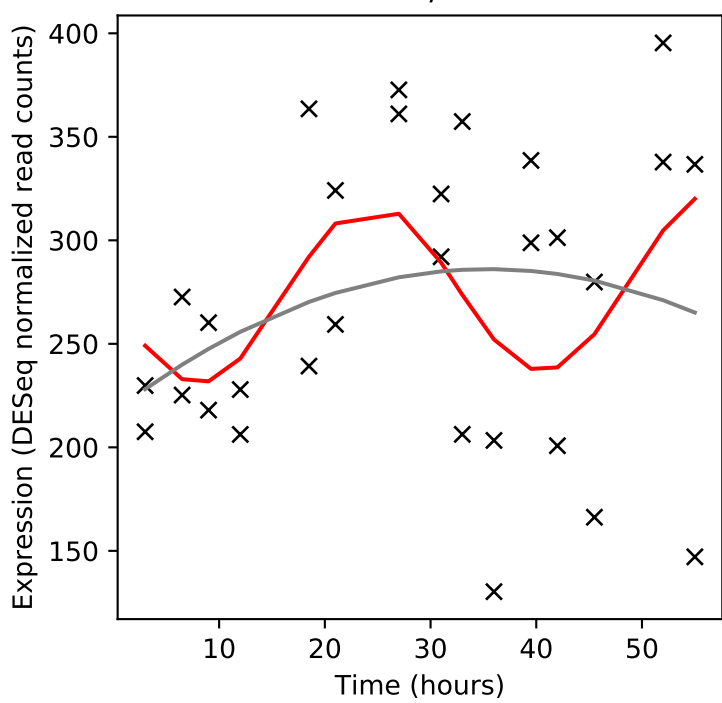
Rv0817c/-



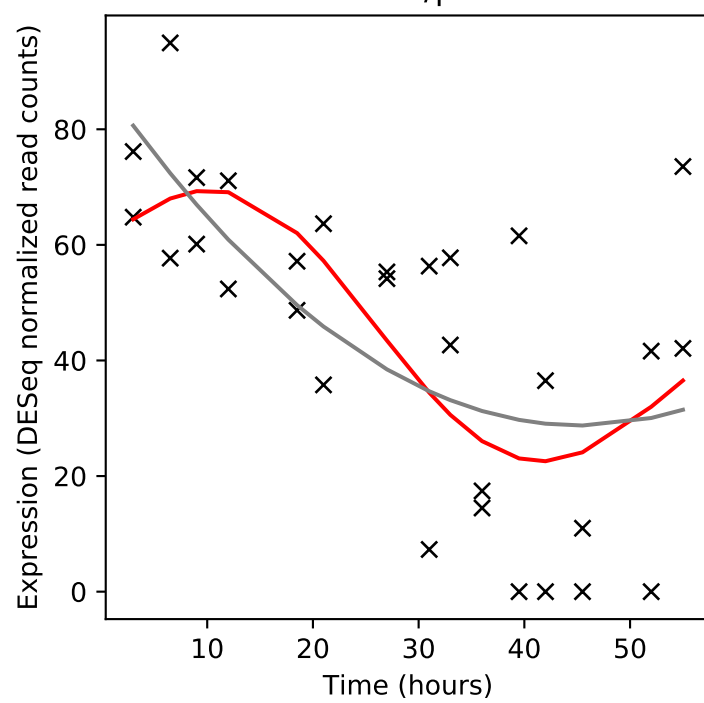
Rv0818/-



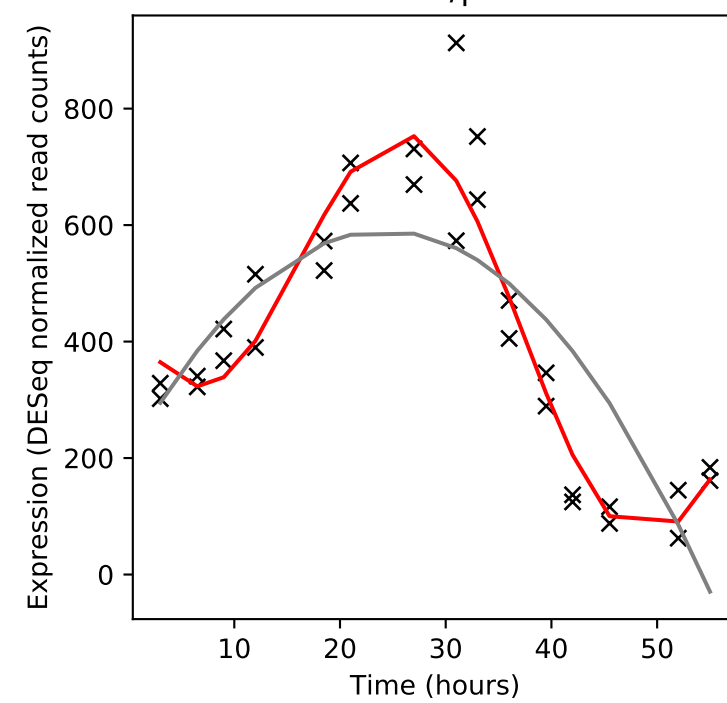
Rv0819/mshD



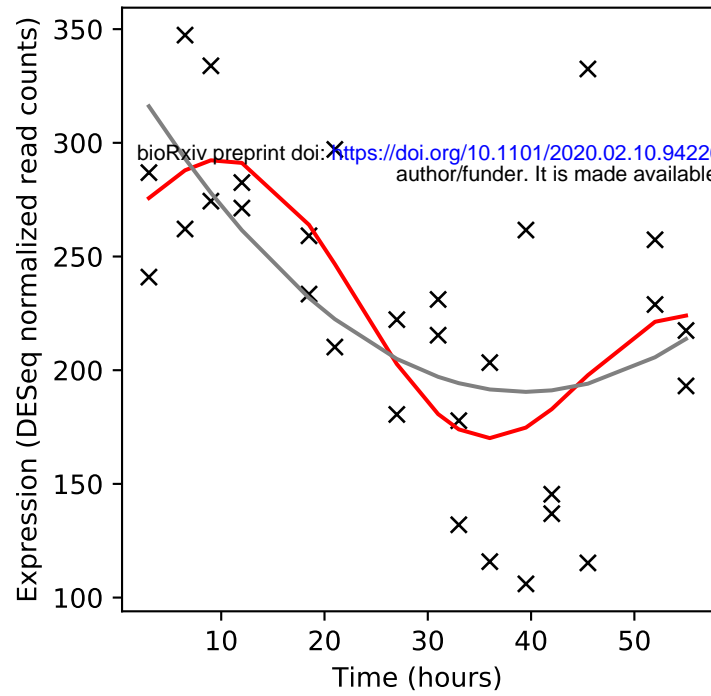
Rv0820/phoT



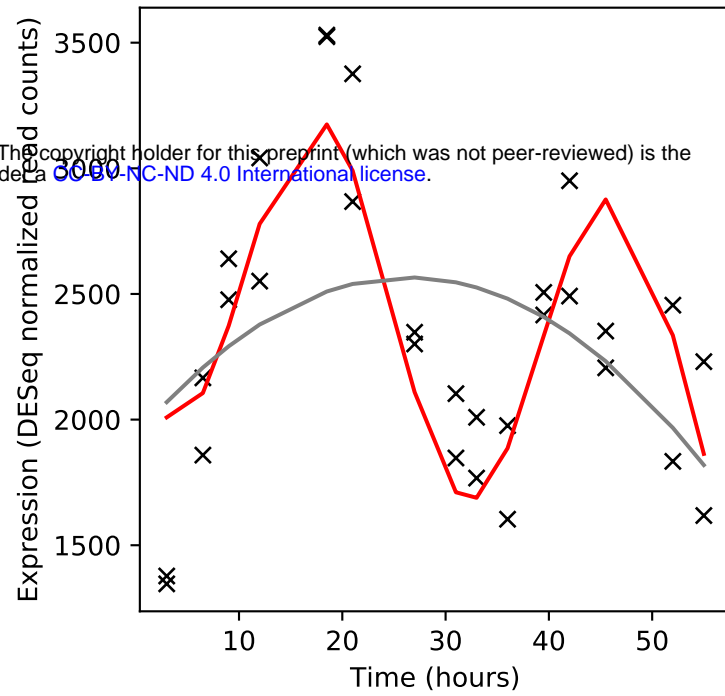
Rv0821c/phoY2



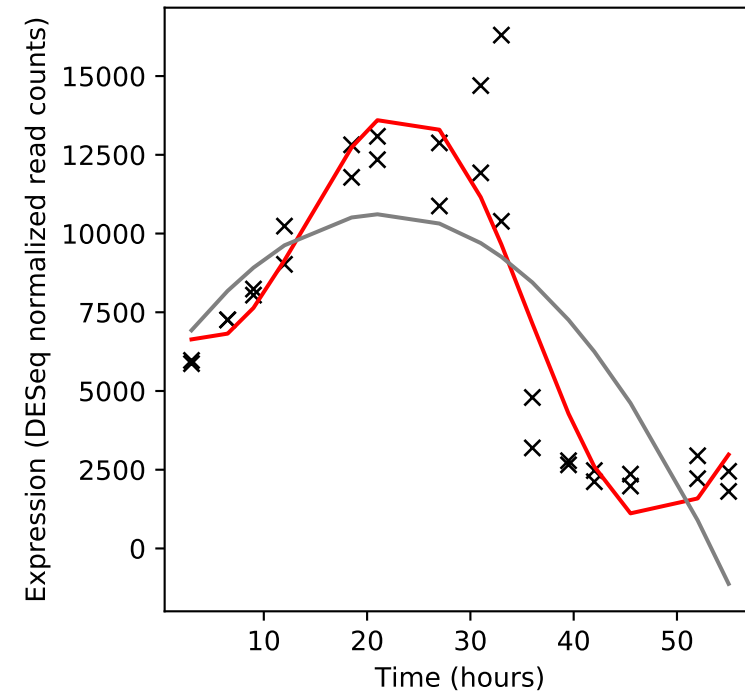
Rv0822c/-



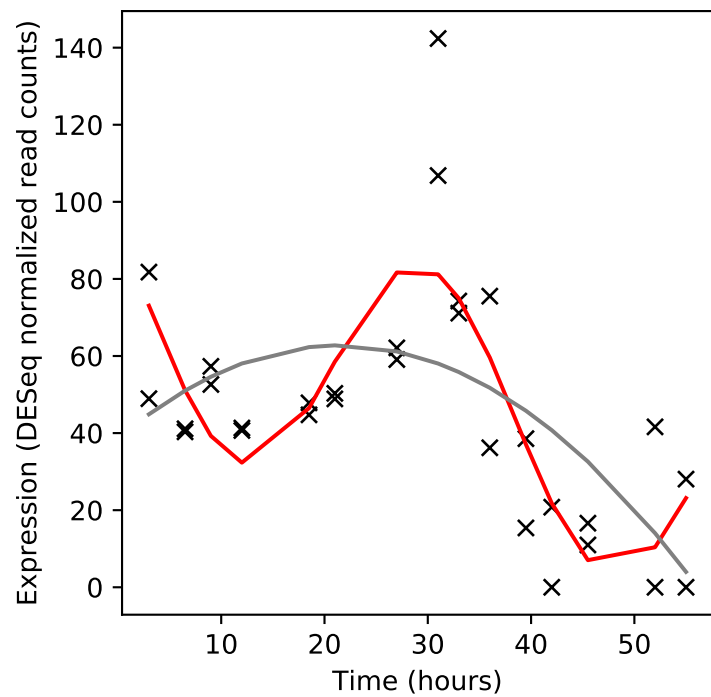
Rv0823c/-



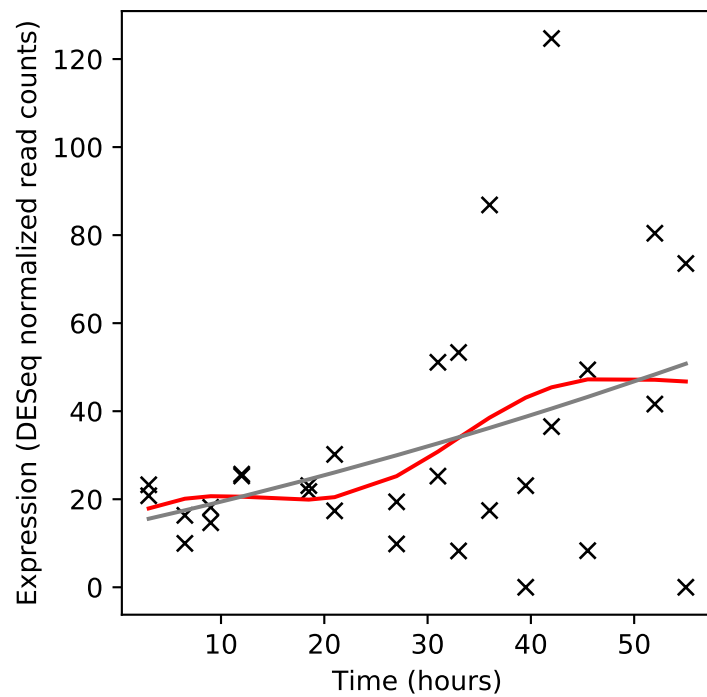
Rv0824c/desA1



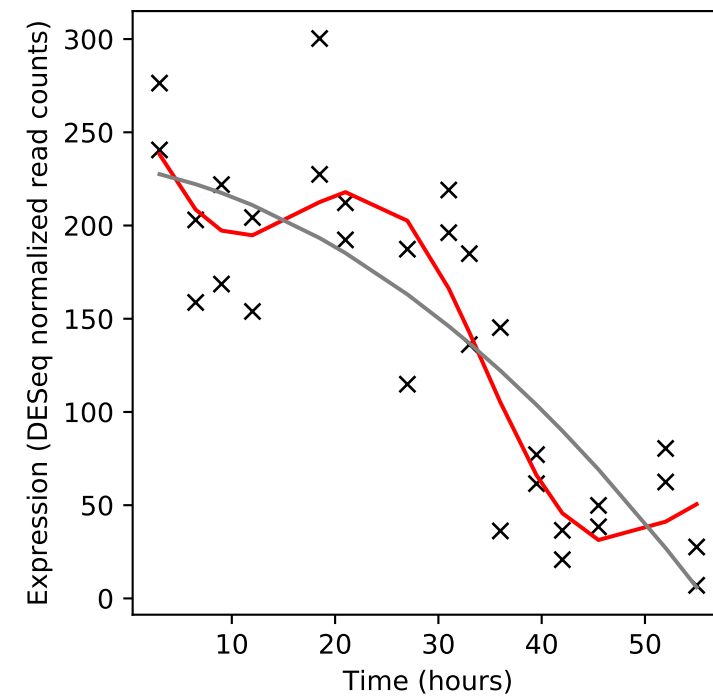
Rv0825c/-



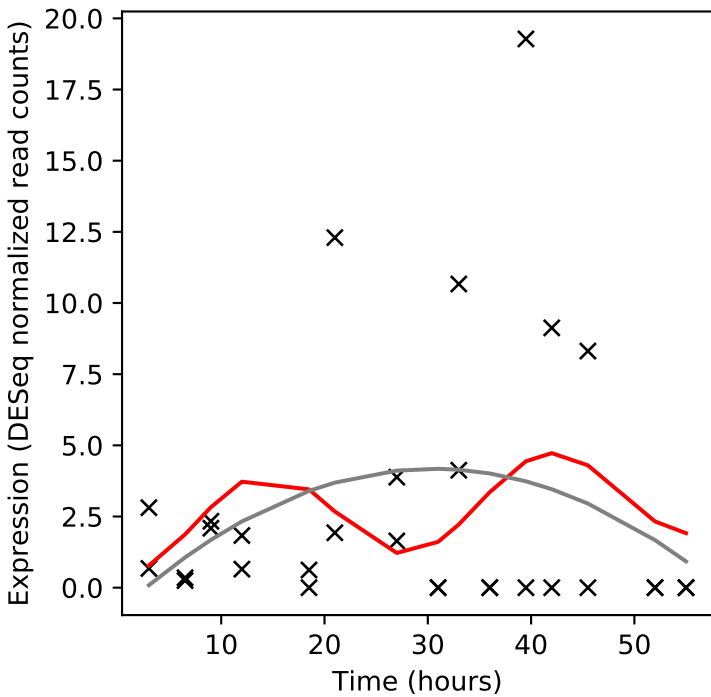
Rv0826/-



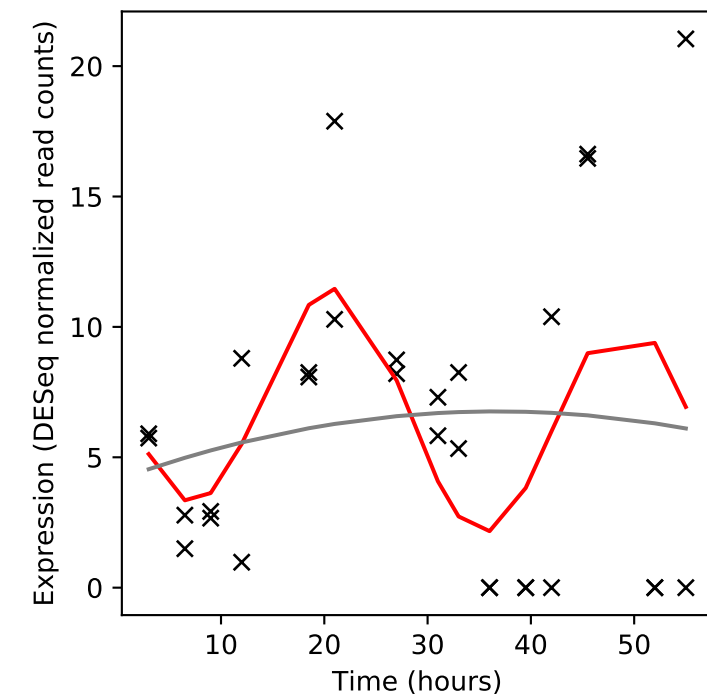
Rv0827c/kmtR



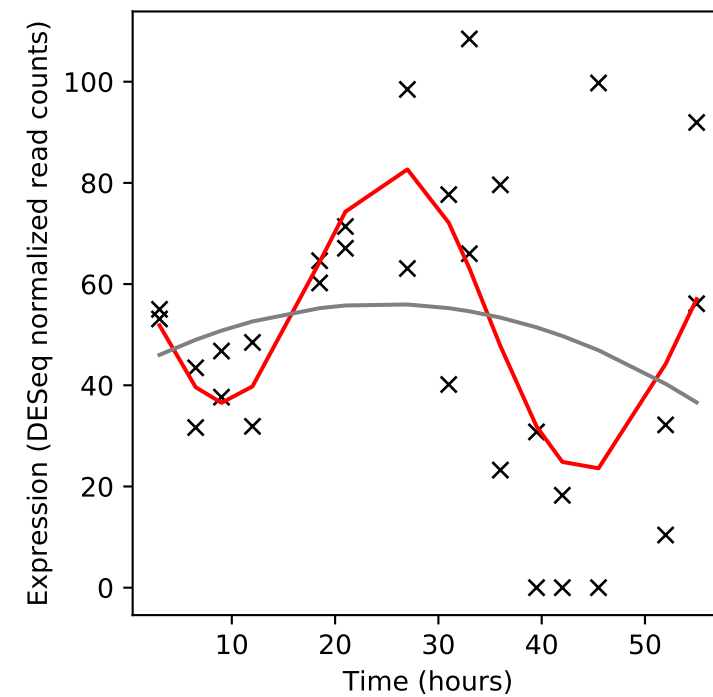
Rv0828c/-



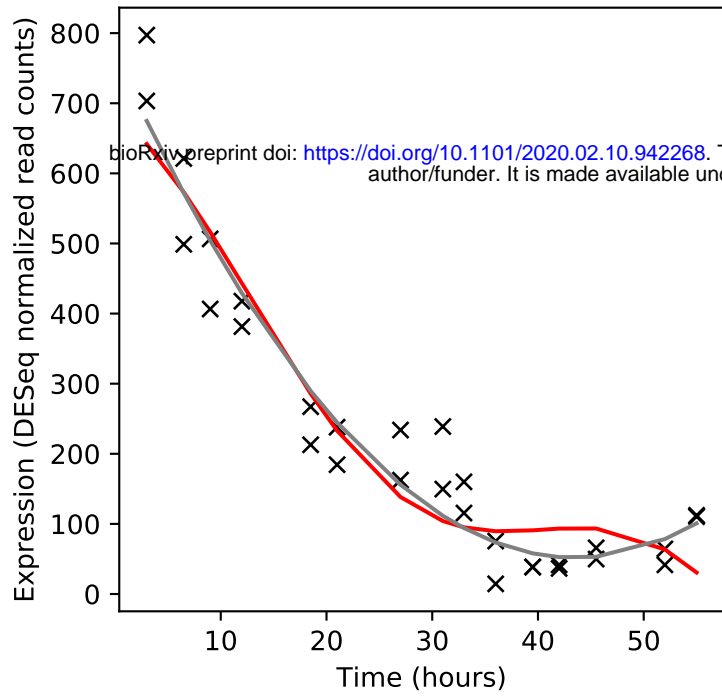
Rv0829/-



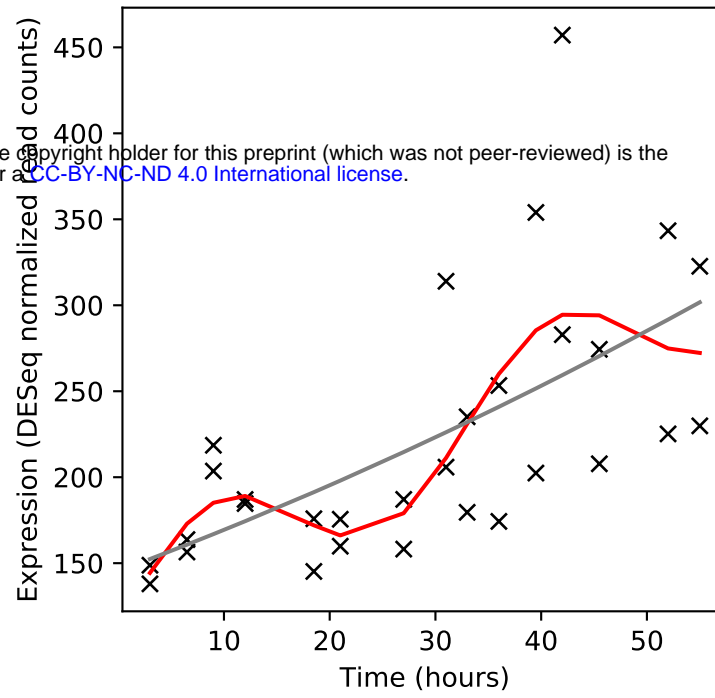
Rv0830/-



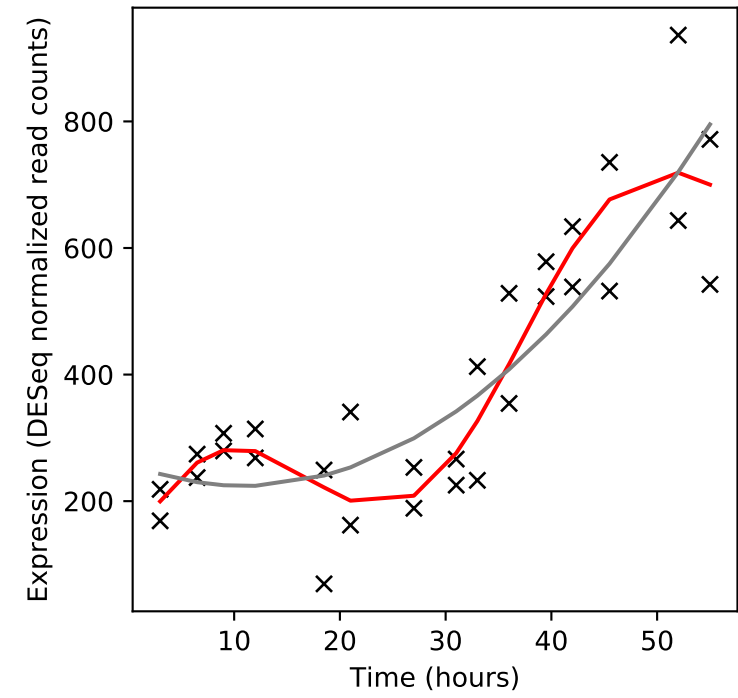
Rv0831c/-



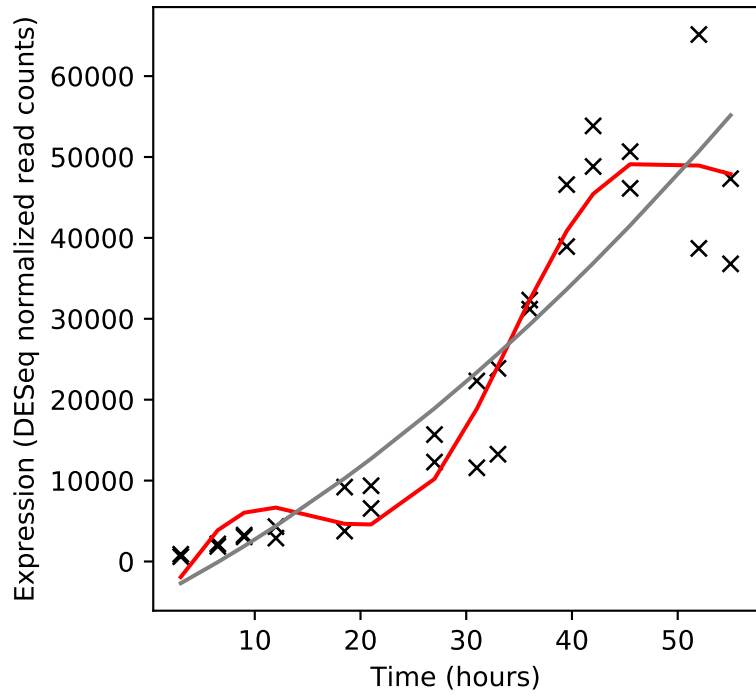
Rv0832/PE_PGRS12



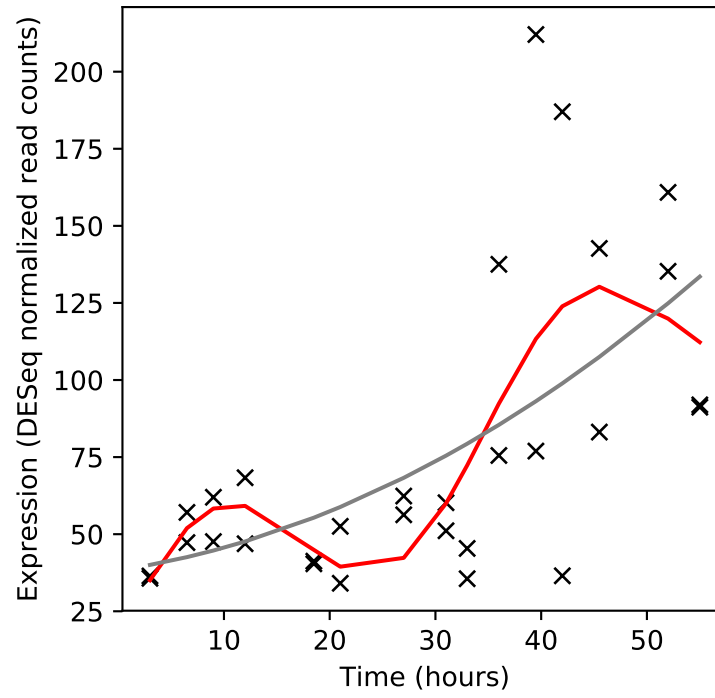
Rv0833/PE_PGRS13



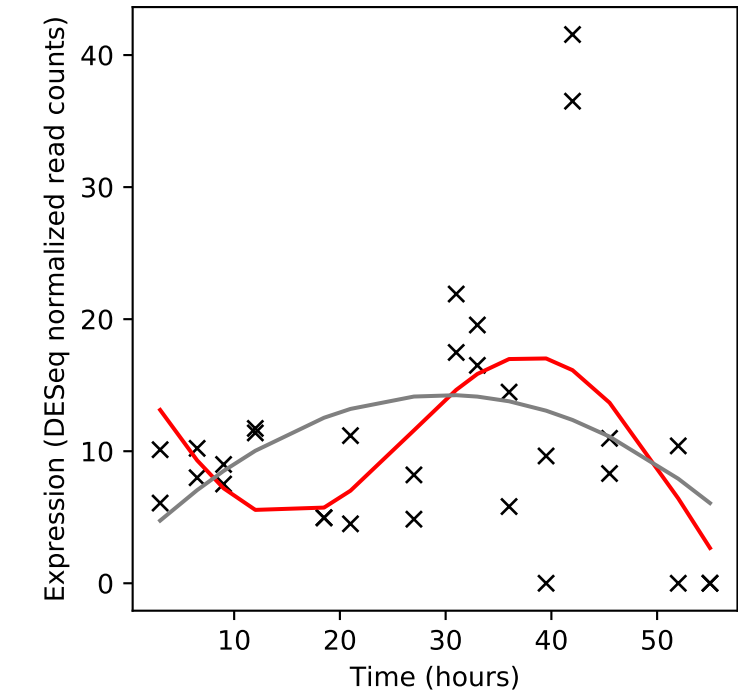
Rv0834c/PE_PGRS14



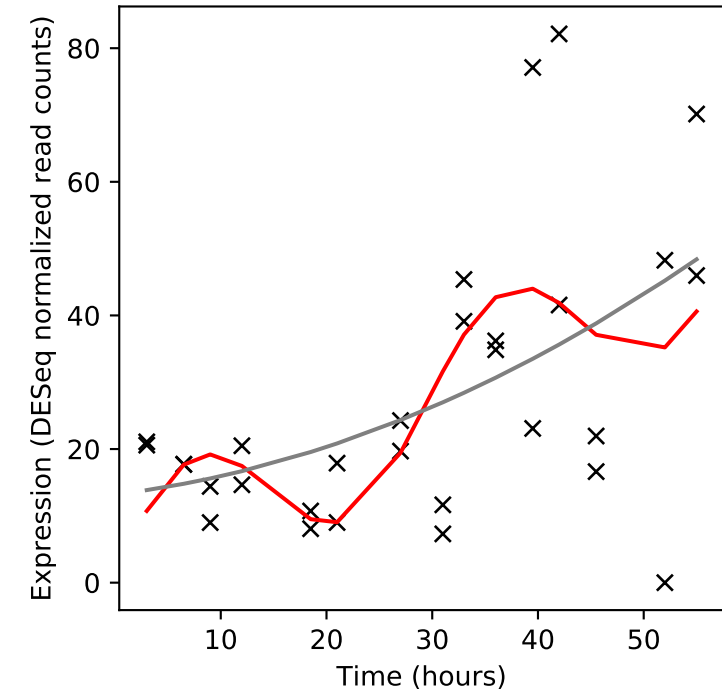
Rv0835/lpqQ



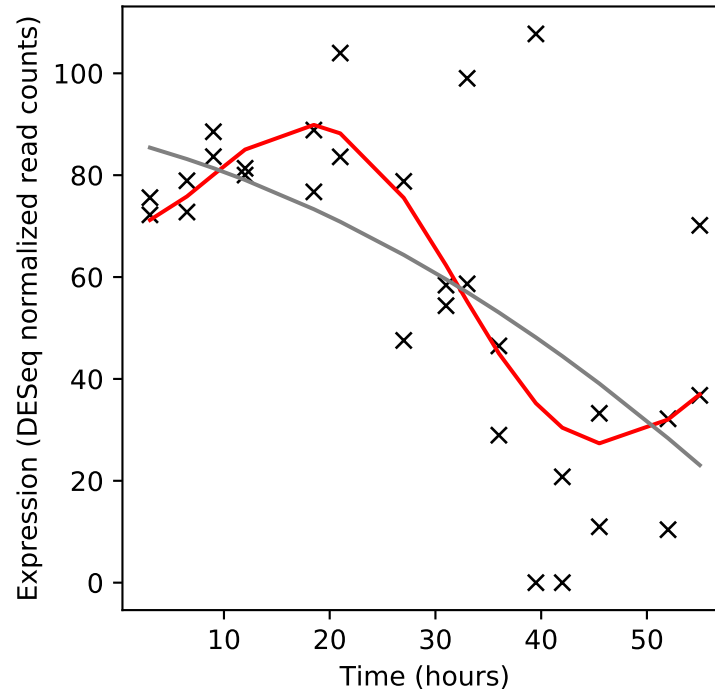
Rv0836c/-



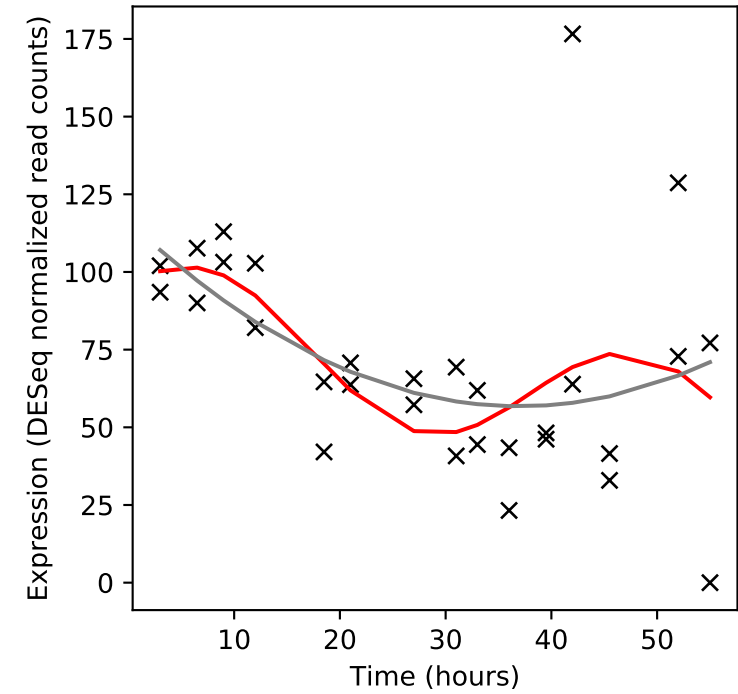
Rv0837c/-



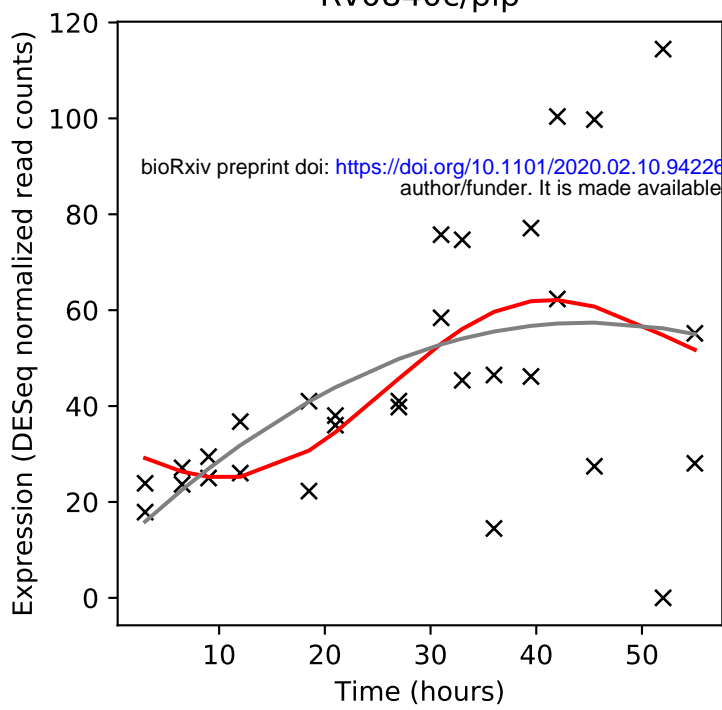
Rv0838/lpqR



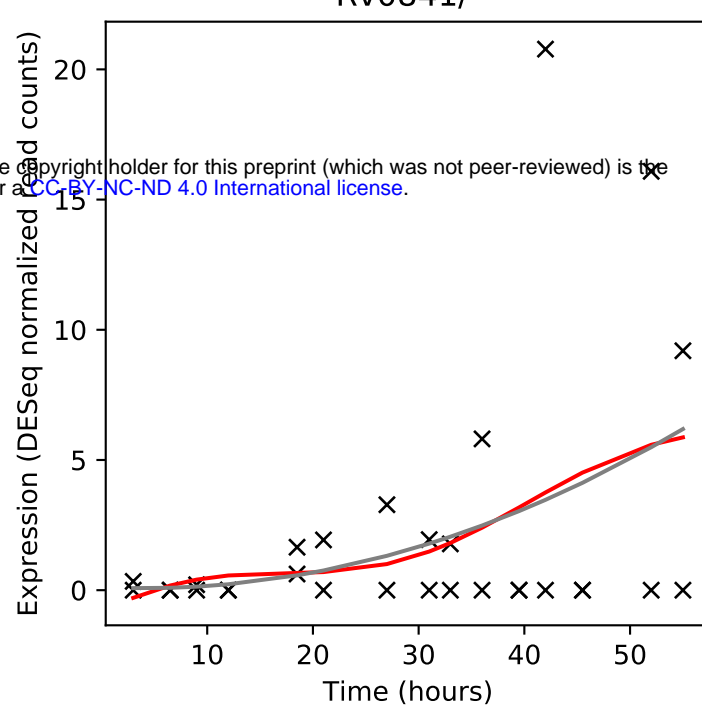
Rv0839/-



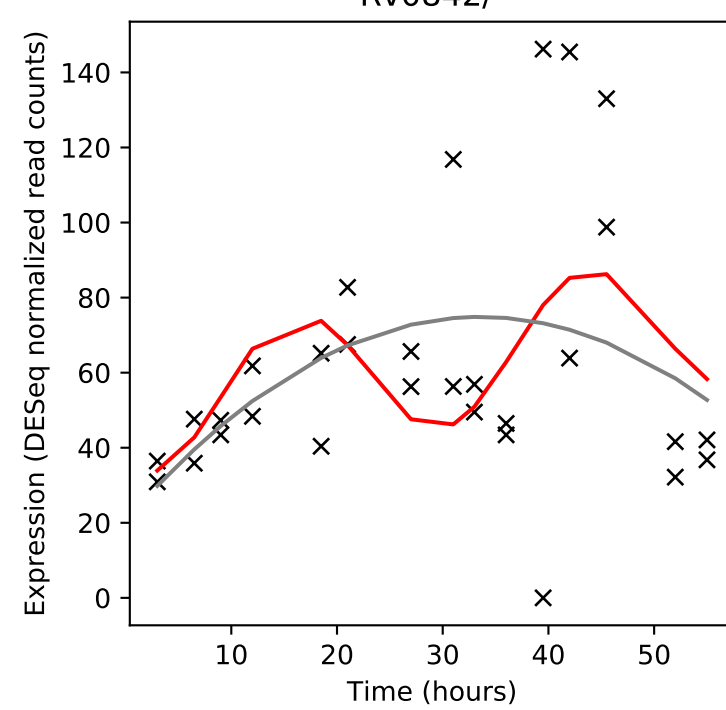
Rv0840c/pip



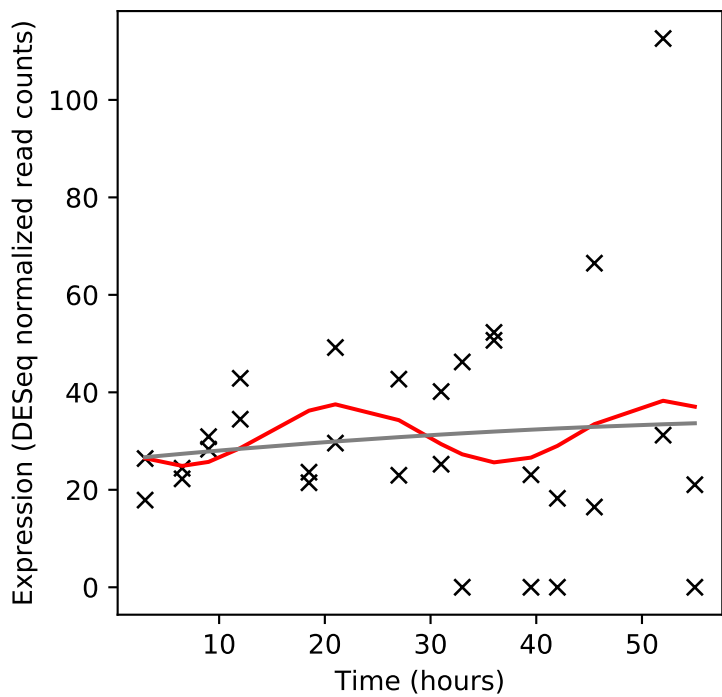
Rv0841/-



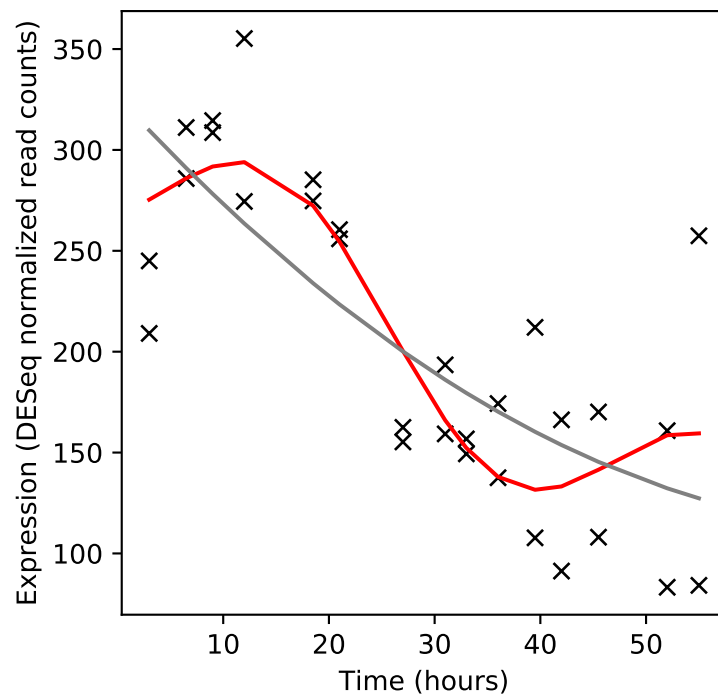
Rv0842/-



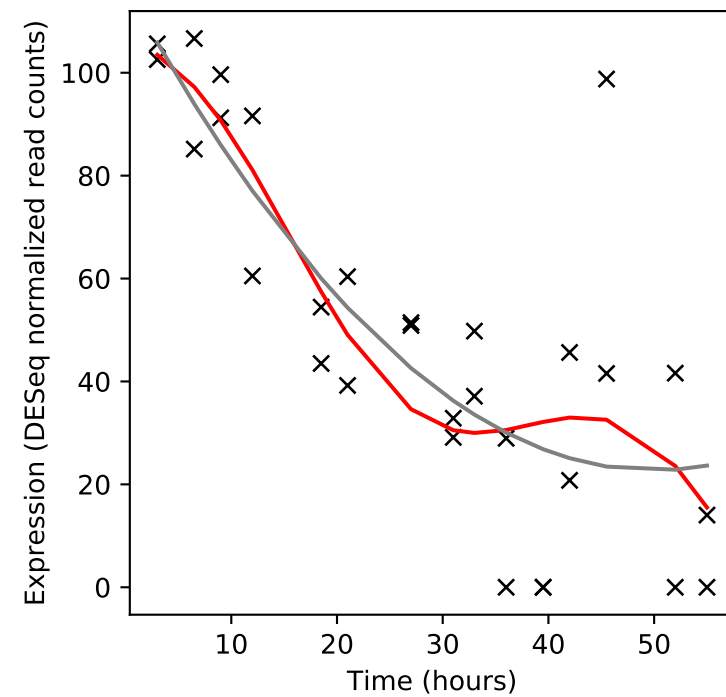
Rv0843/-



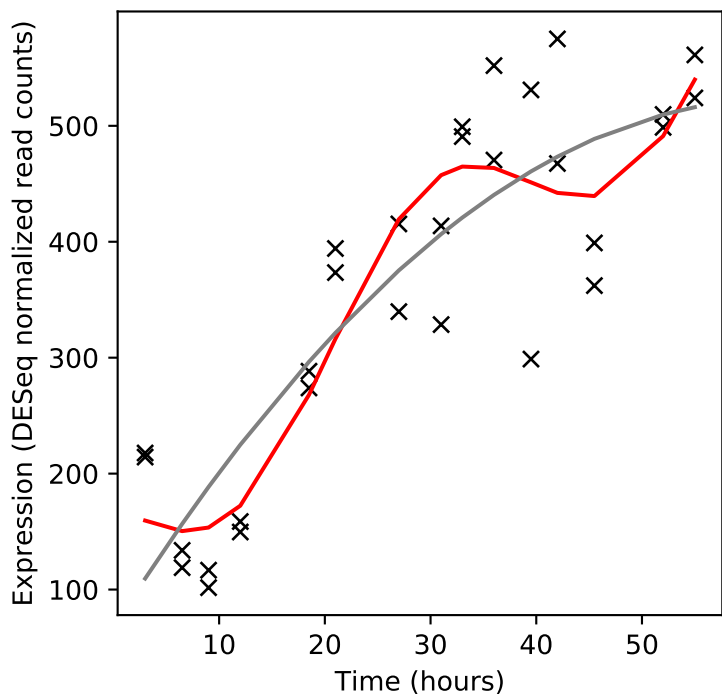
Rv0844c/narL



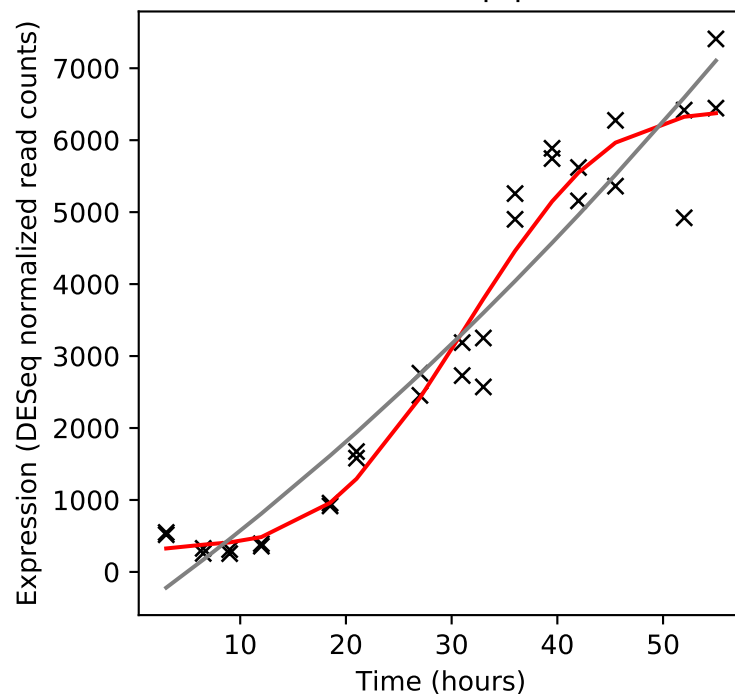
Rv0845/-



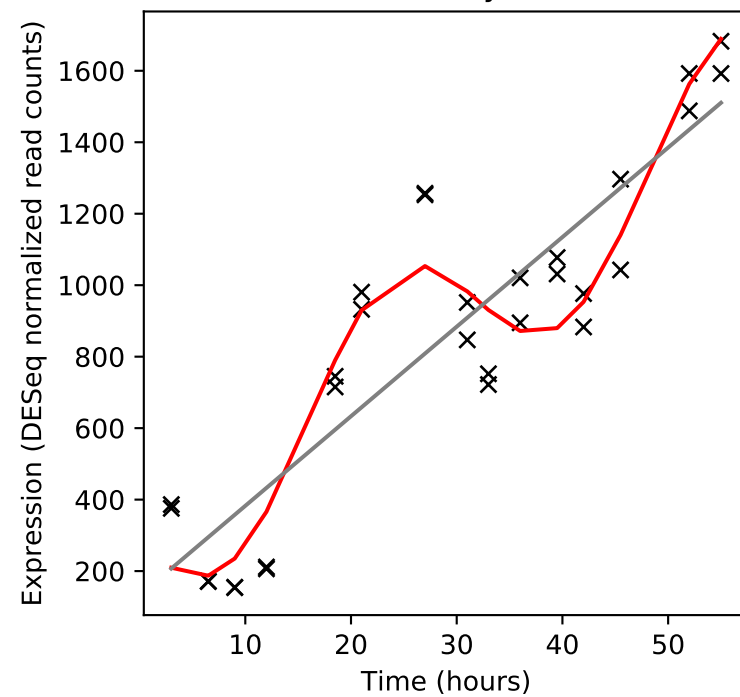
Rv0846c/-



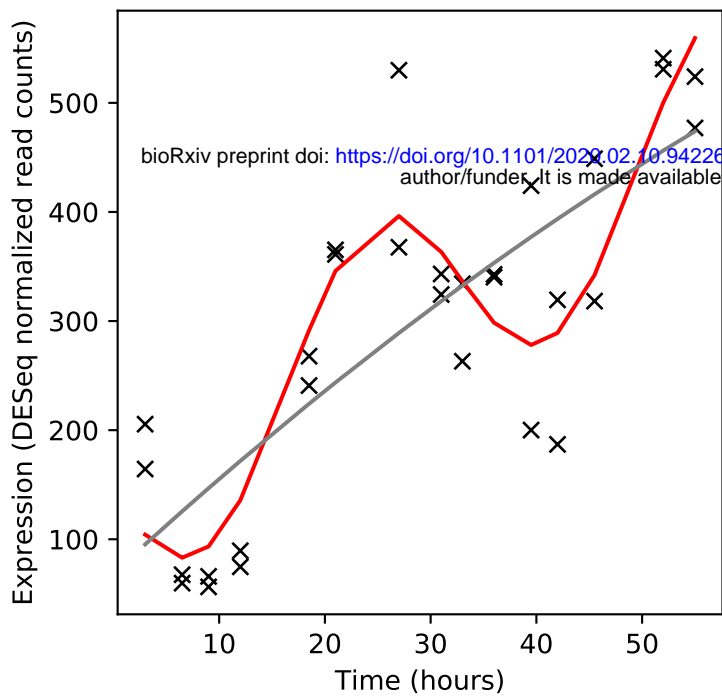
Rv0847/lpqS



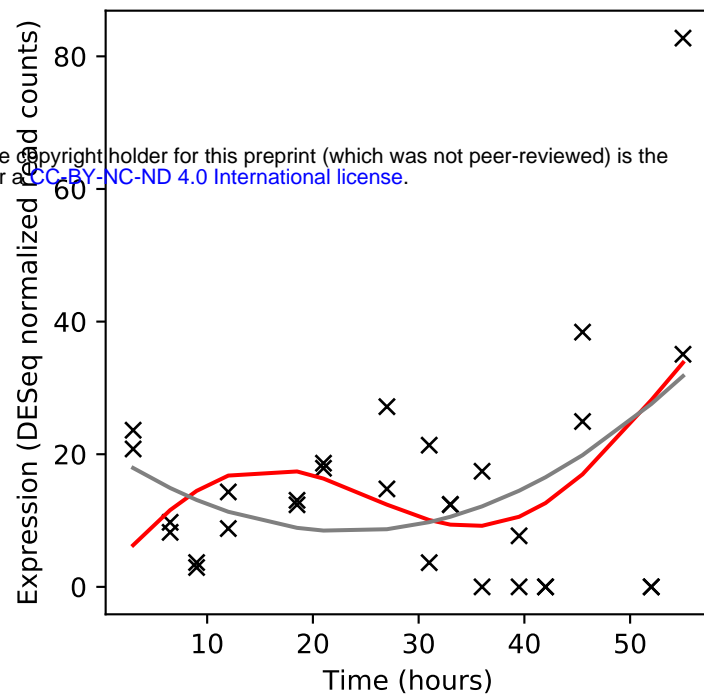
Rv0848/cysK2



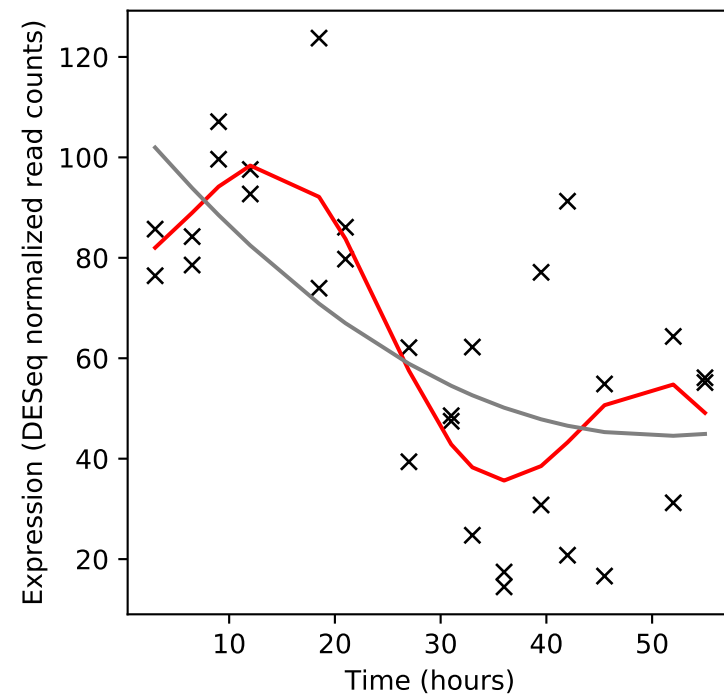
Rv0849/-



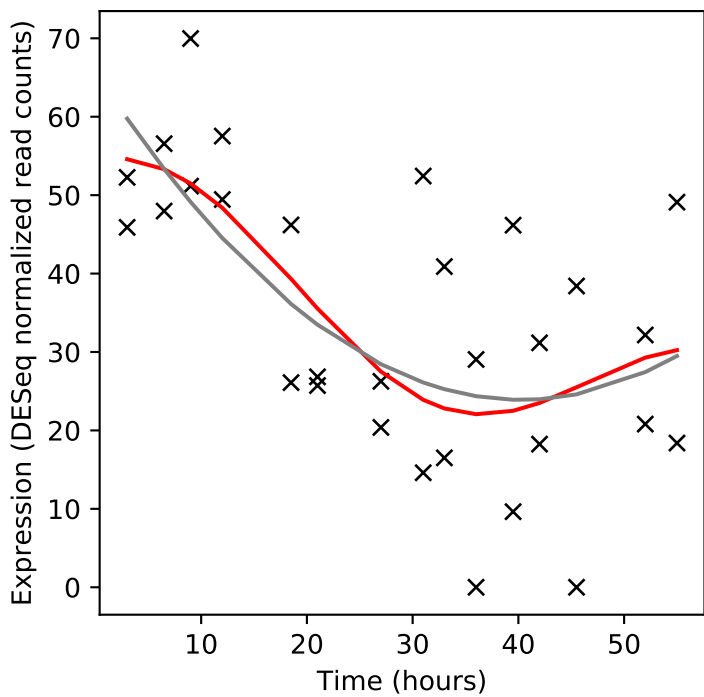
Rv0850/-



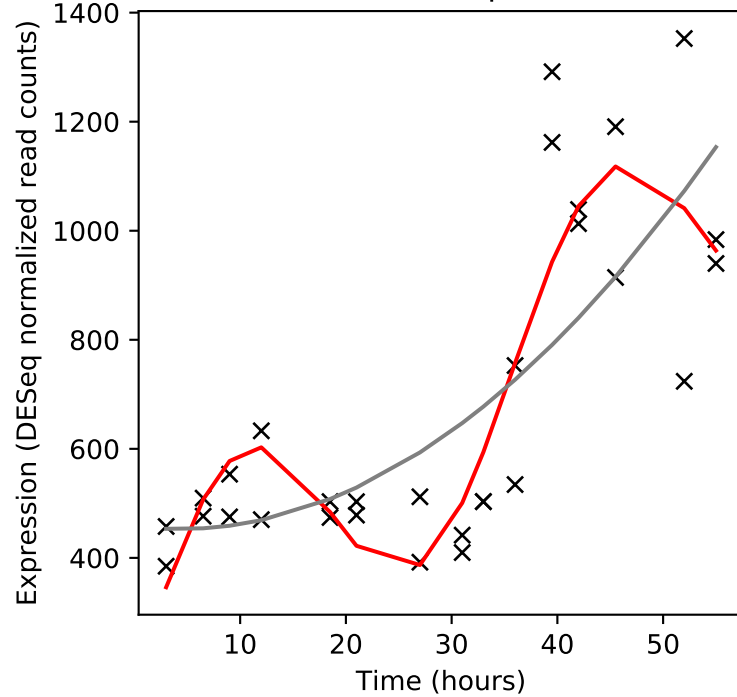
Rv0851c/-



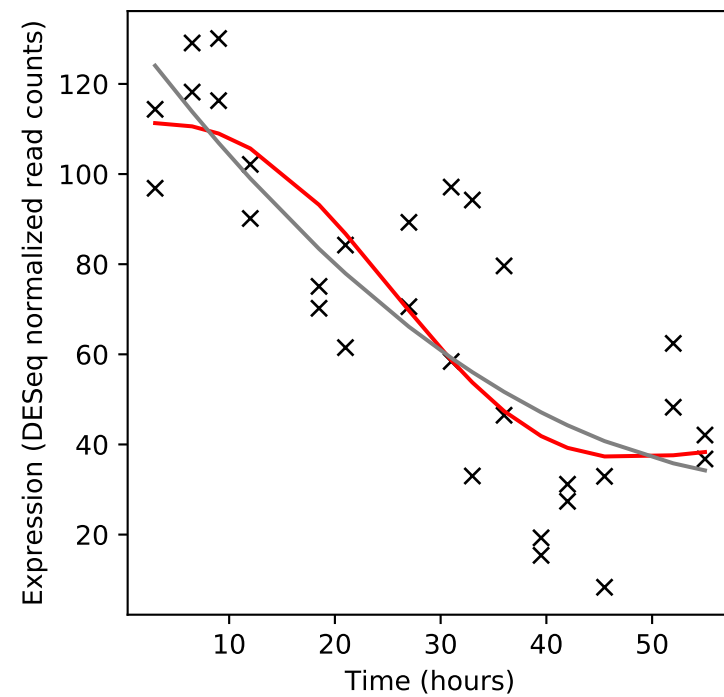
Rv0852/fadD16



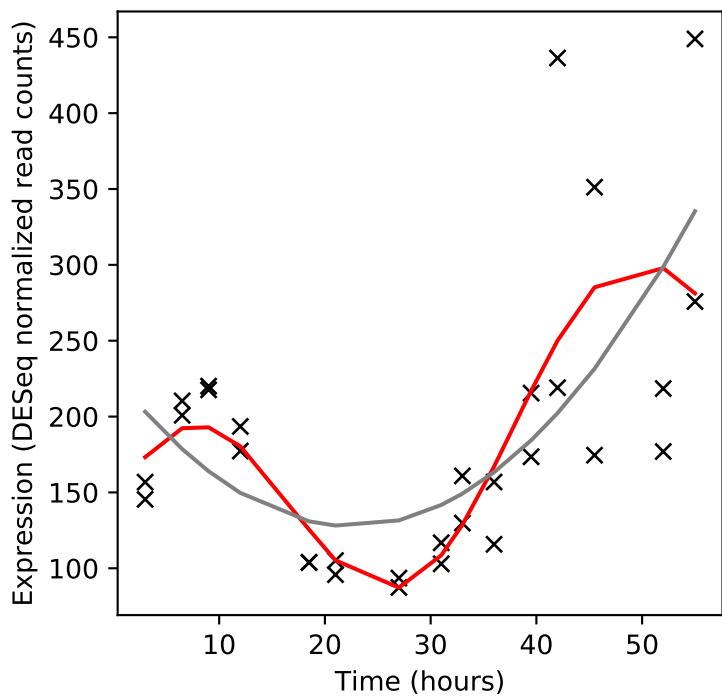
Rv0853c/pdc



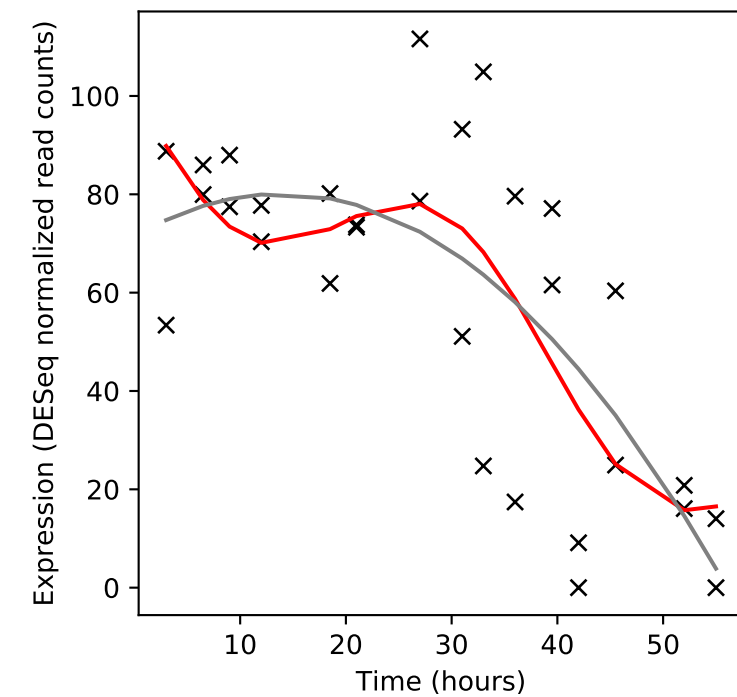
Rv0854/-



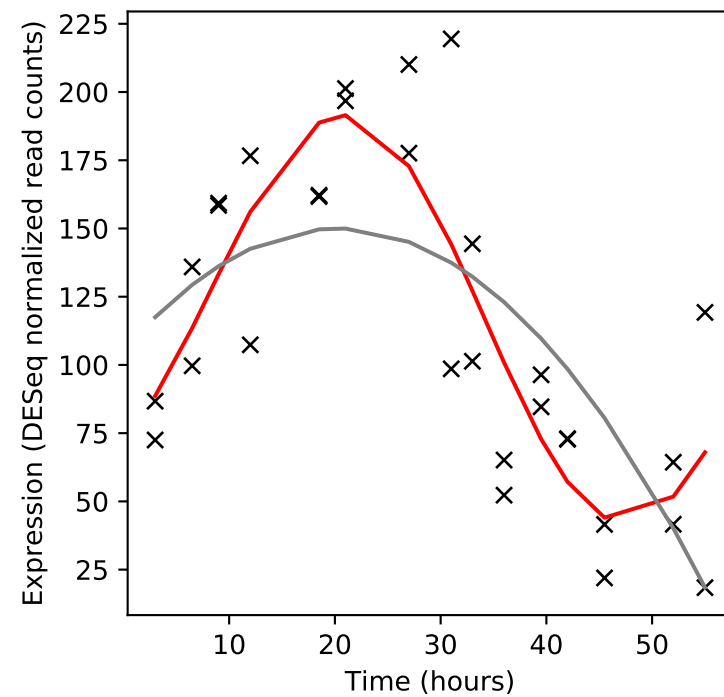
Rv0855/far



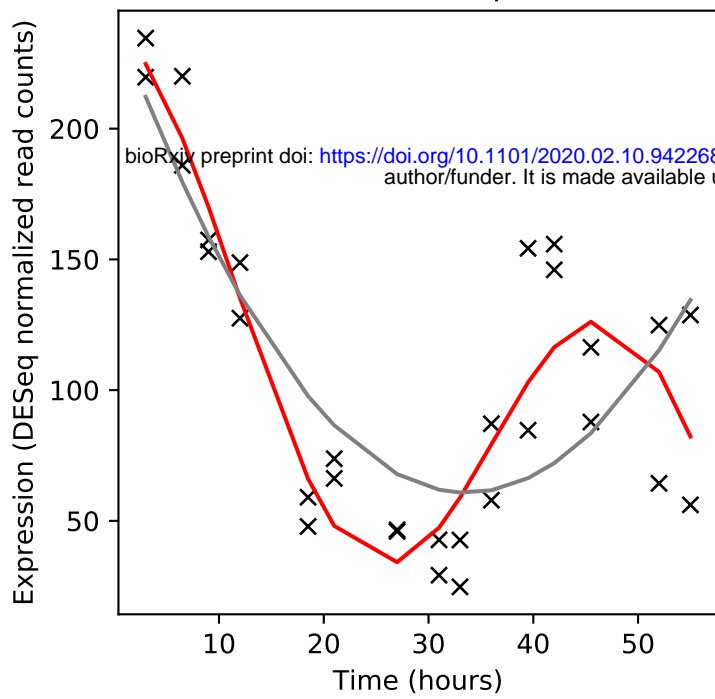
Rv0856/-



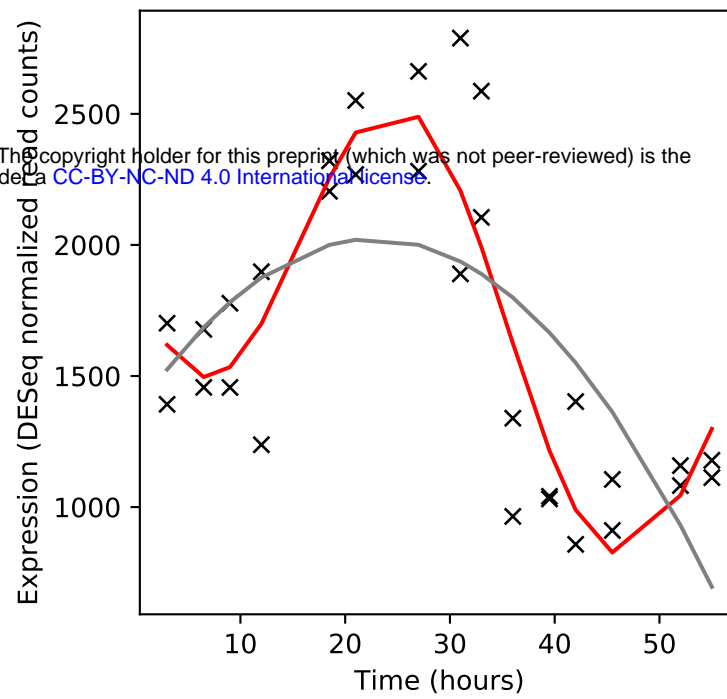
Rv0857/-



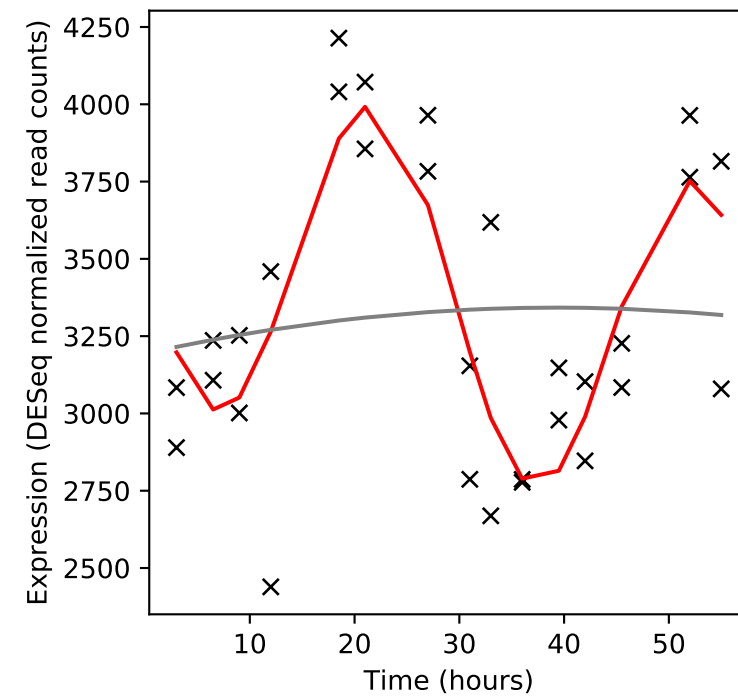
Rv0858c/dapC



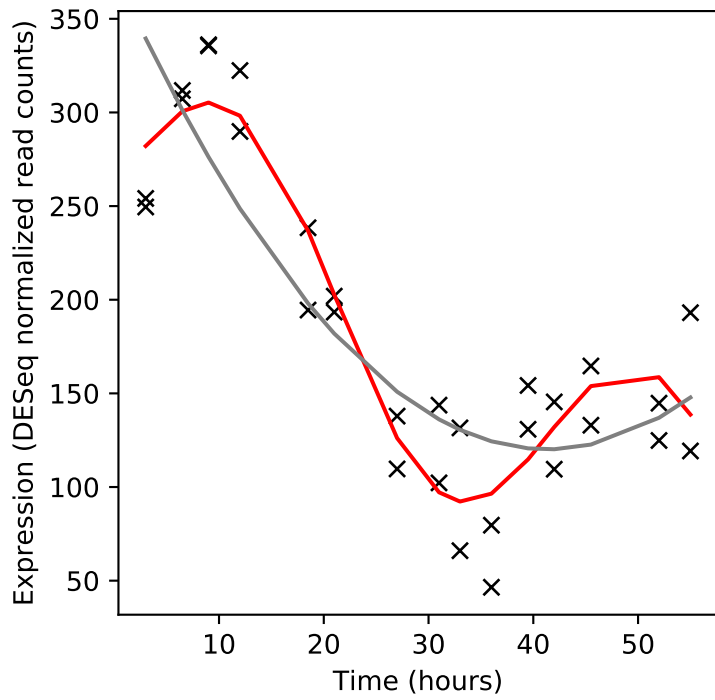
Rv0859/fadA



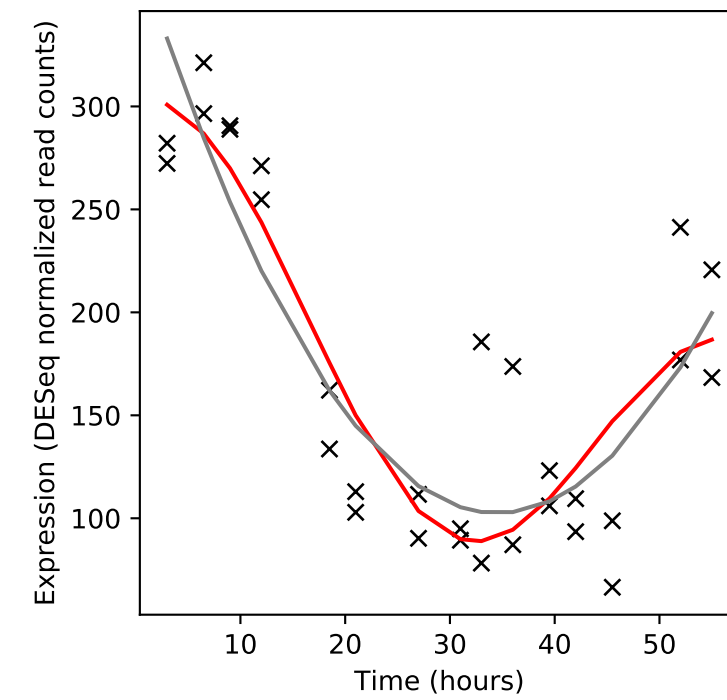
Rv0860/fadB



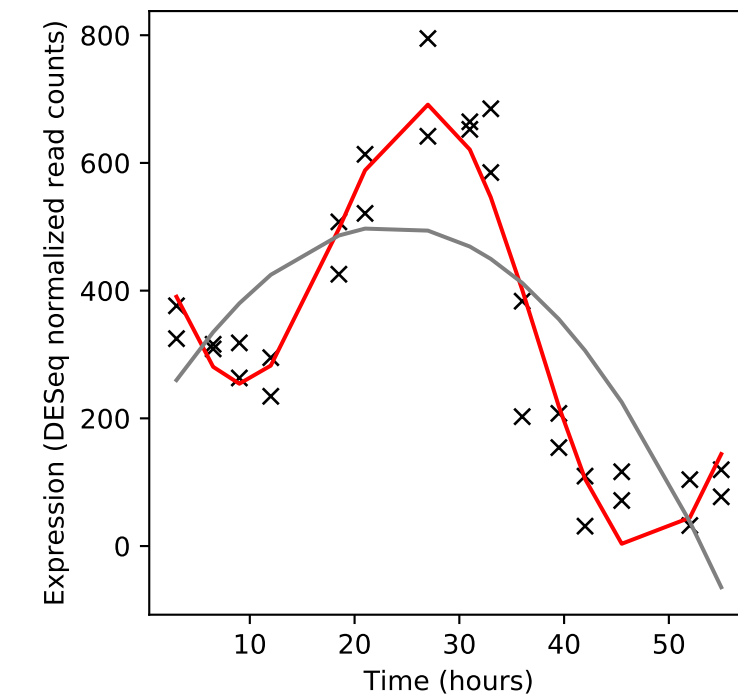
Rv0861c/ercc3



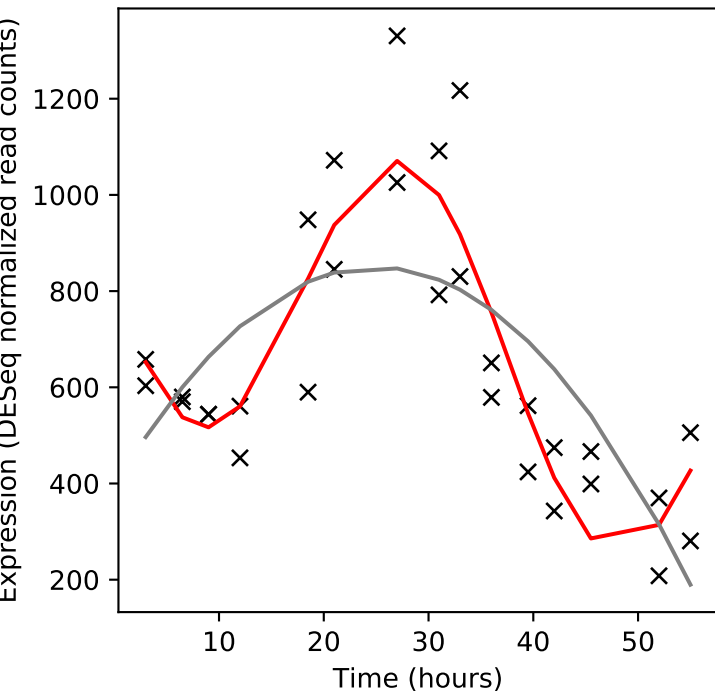
Rv0862c/-



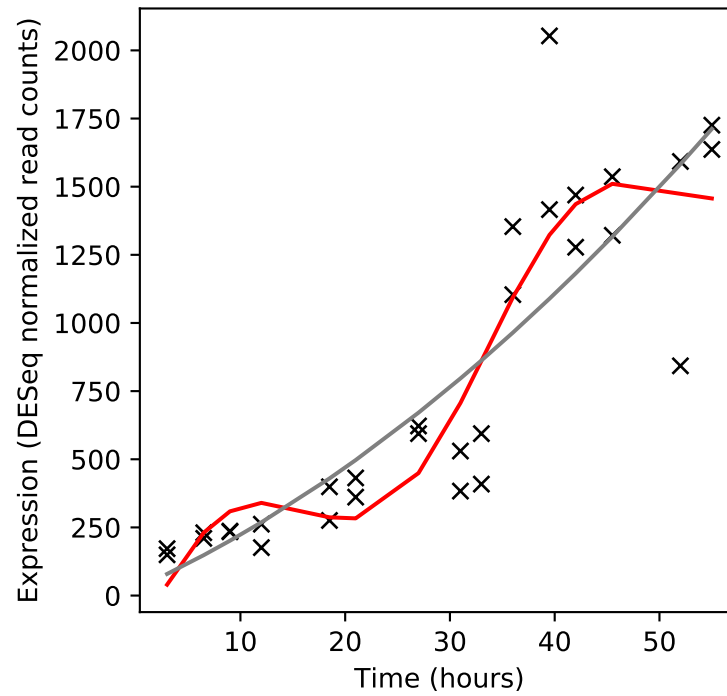
Rv0863/-



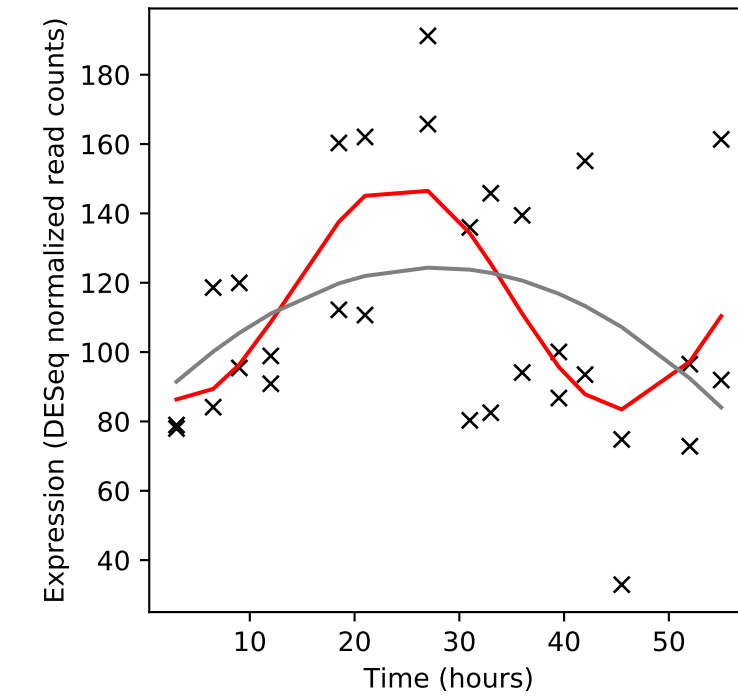
Rv0864/moaC2



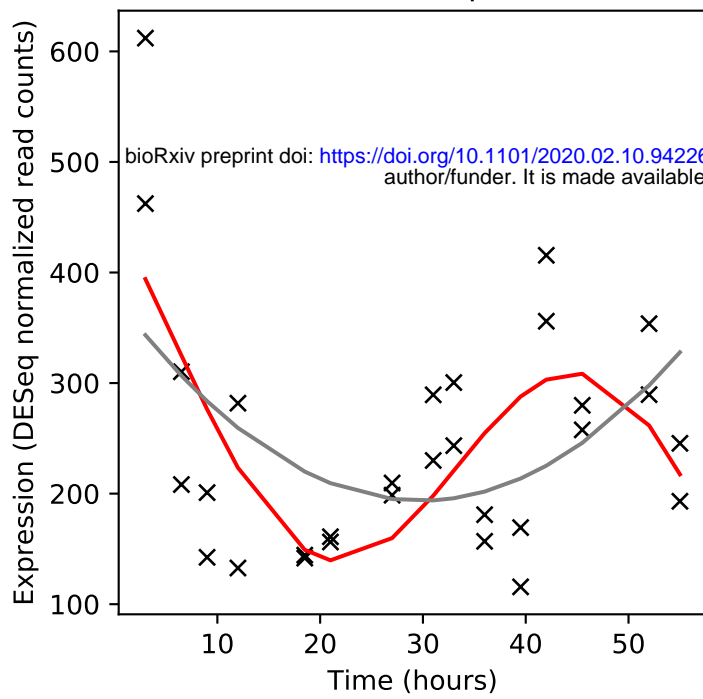
Rv0865/mog



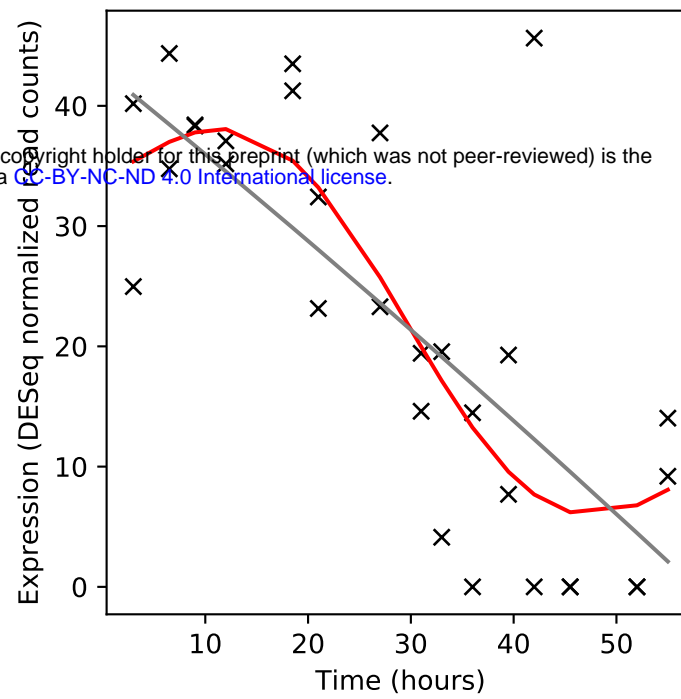
Rv0866/moaE2



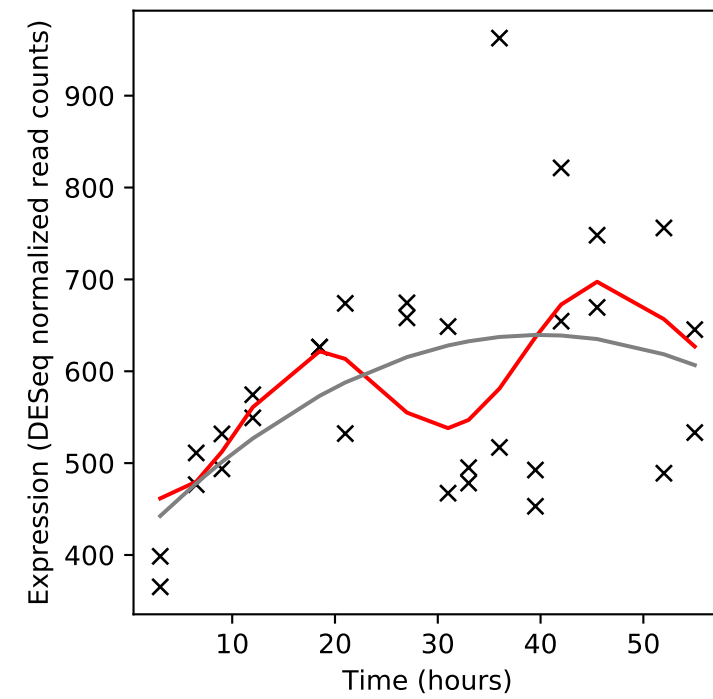
Rv0867c/rpfA



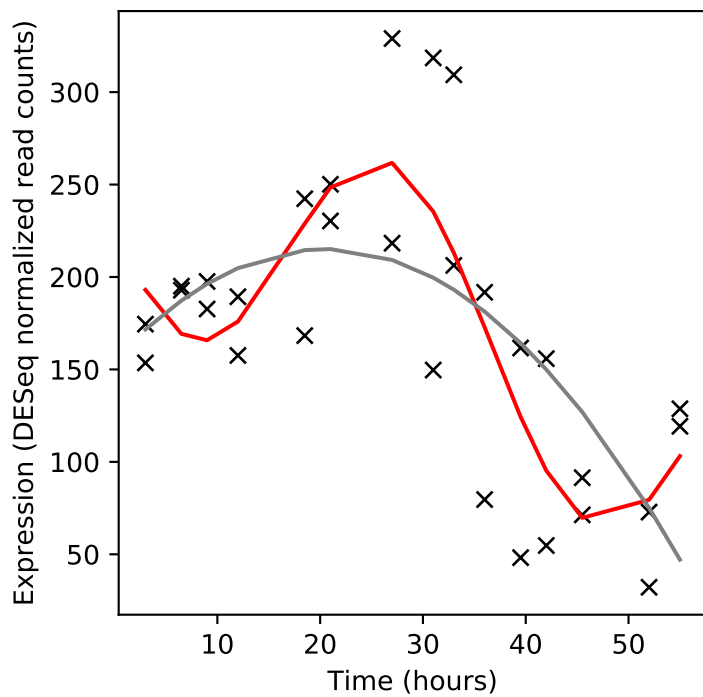
Rv0868c/moaD2



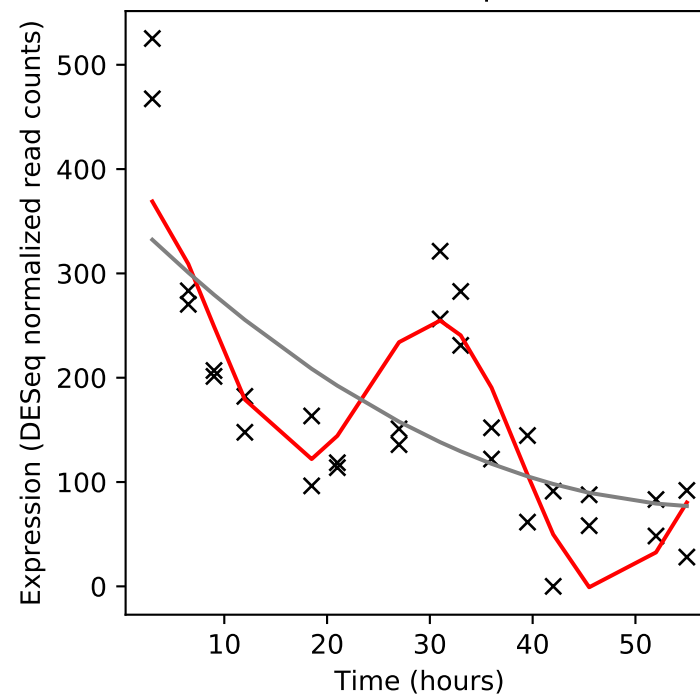
Rv0869c/moaA2



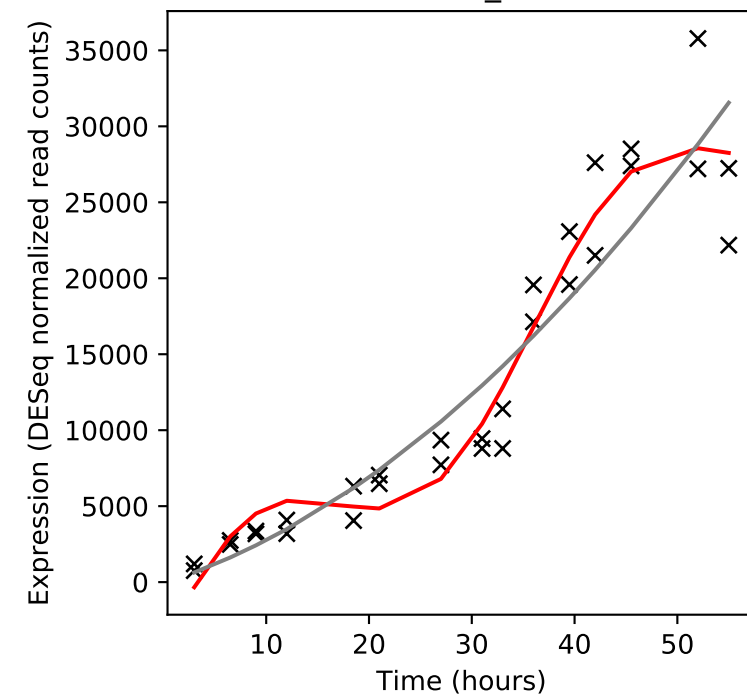
Rv0870c/-



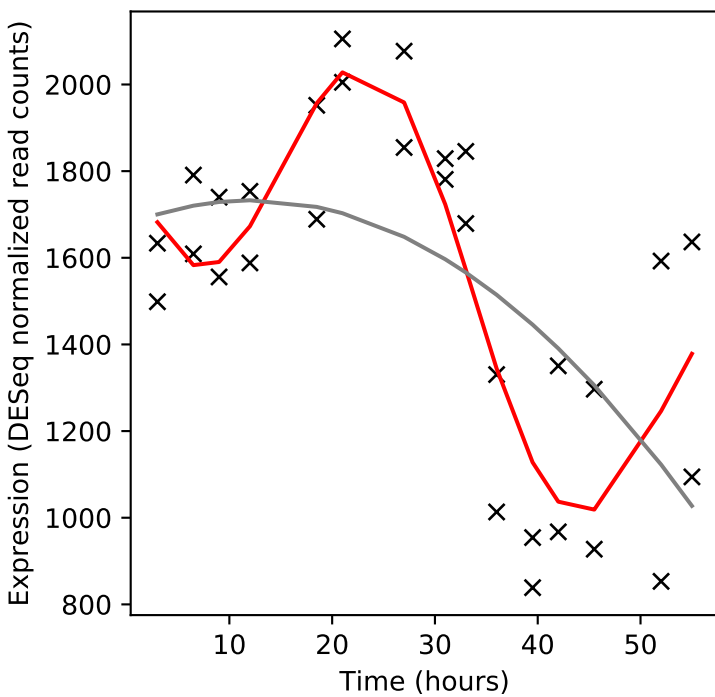
Rv0871c/cspB



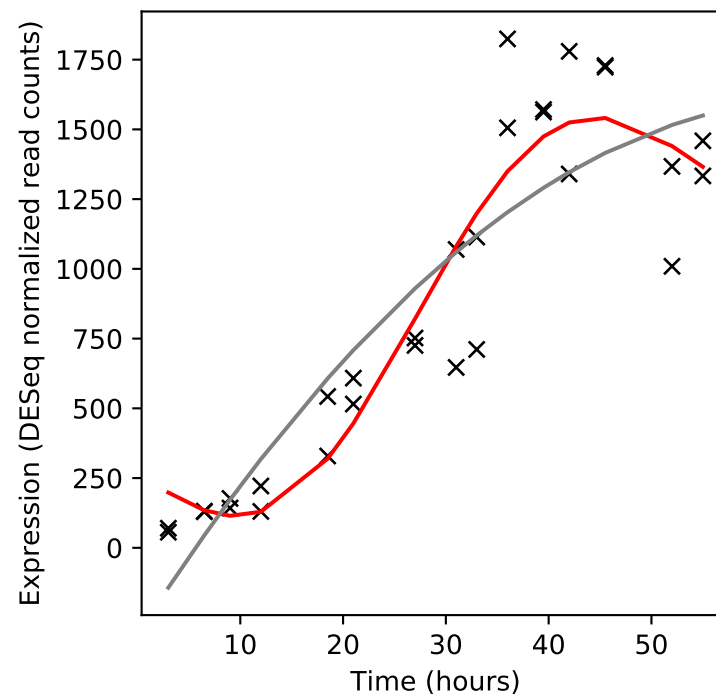
Rv0872c/PE_PGRS15



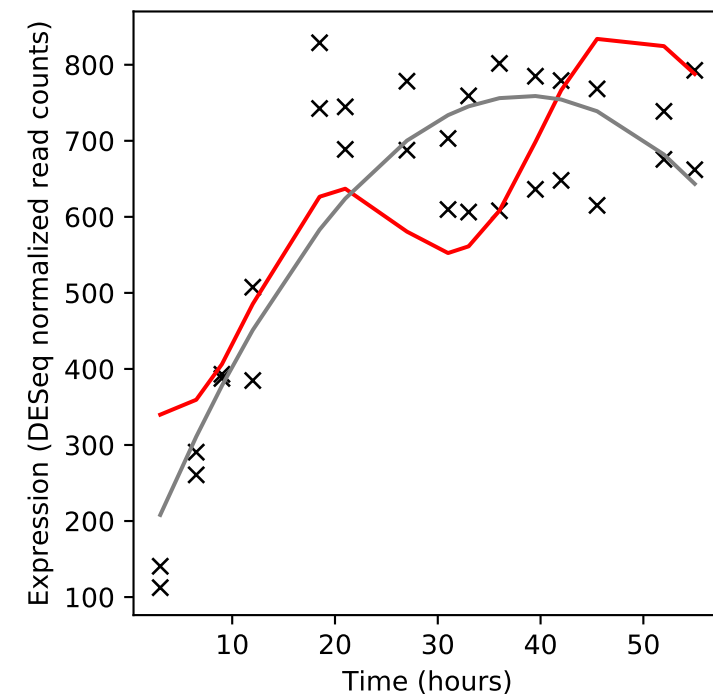
Rv0873c/fadE10



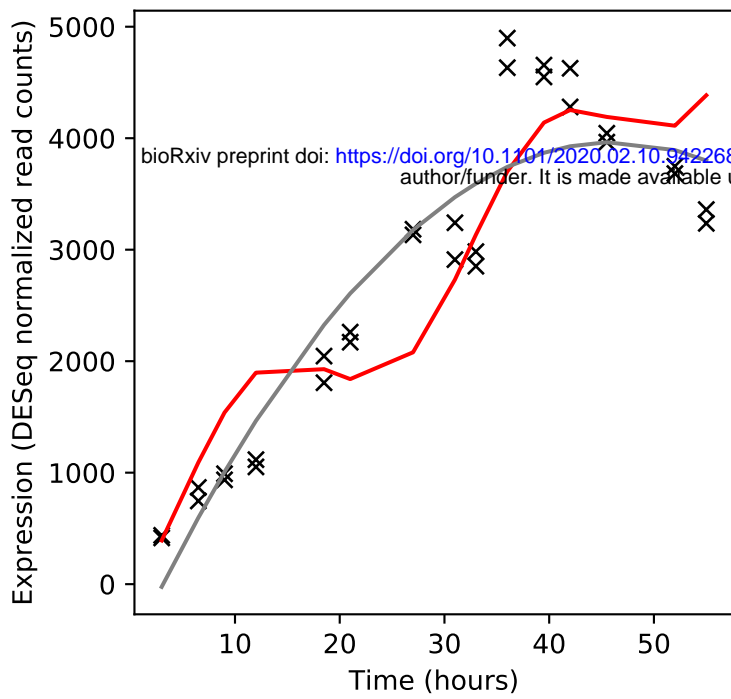
Rv0874c/-



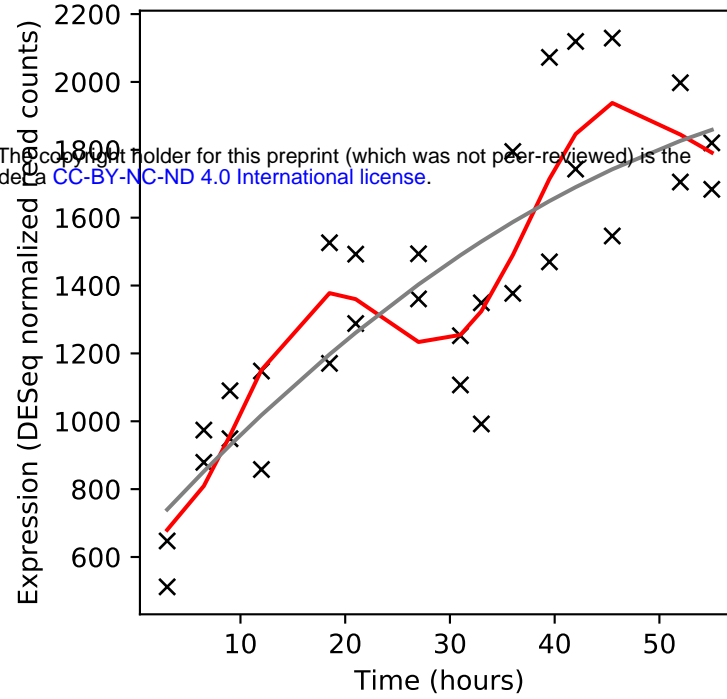
Rv0875c/-



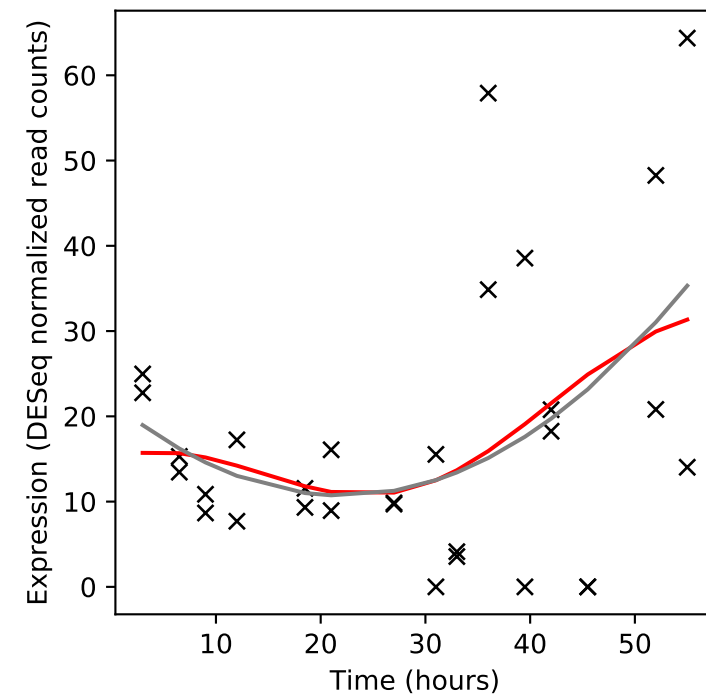
Rv0876c/-



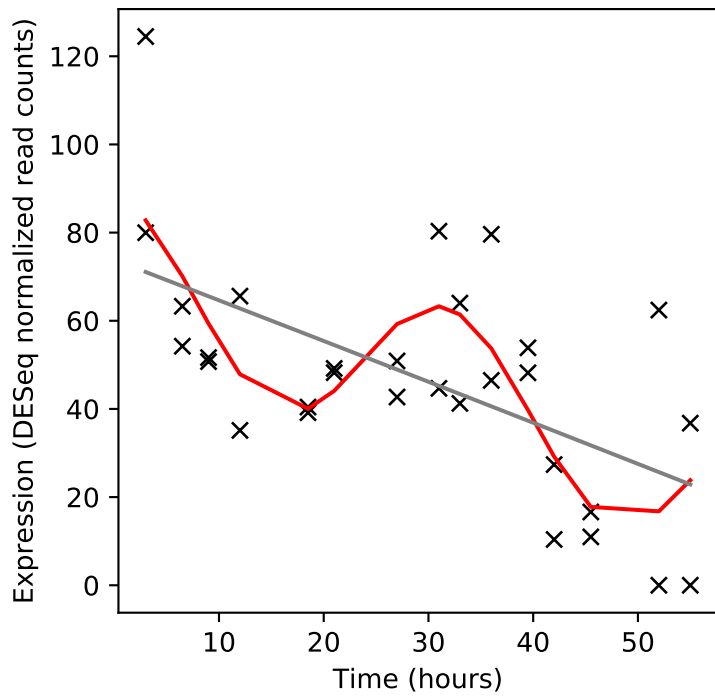
Rv0877/-



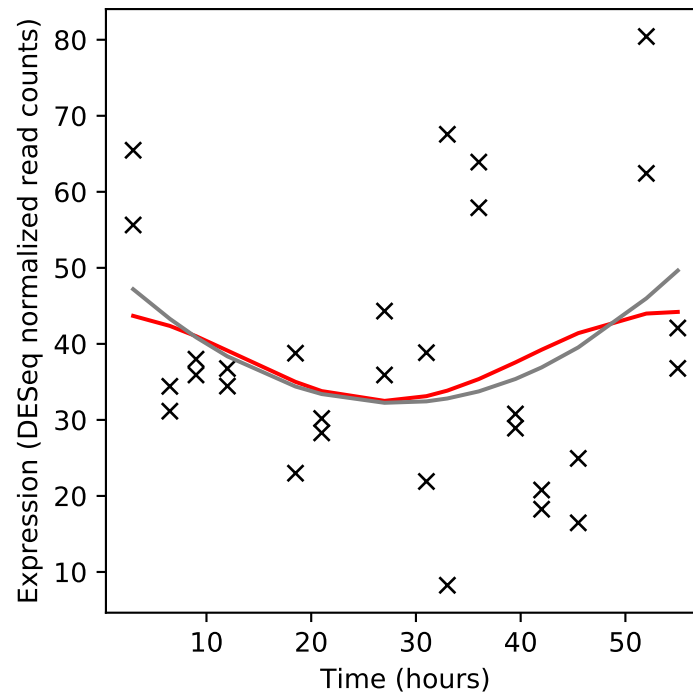
Rv0878c/PPE13



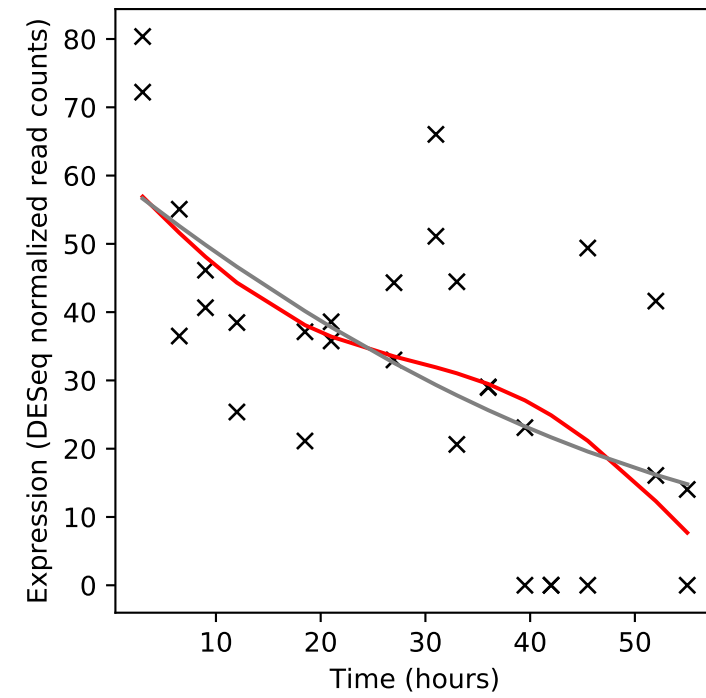
Rv0879c/-



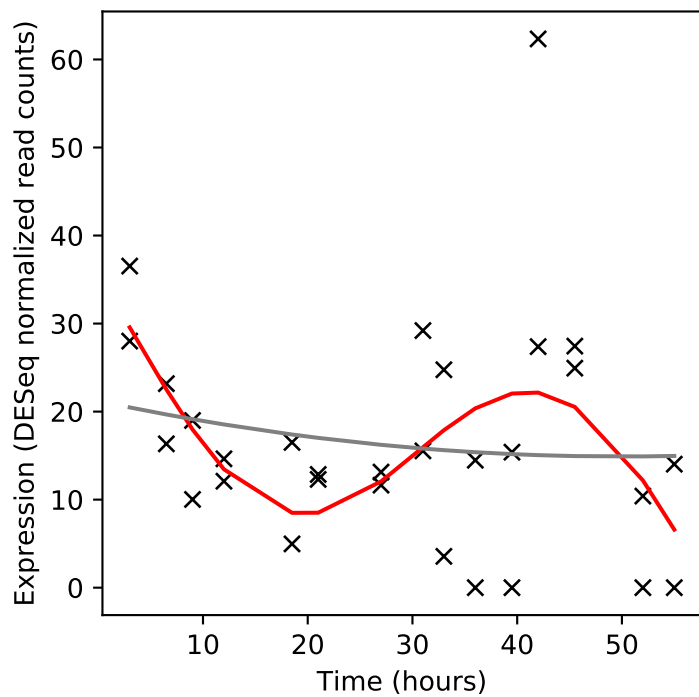
Rv0880/-



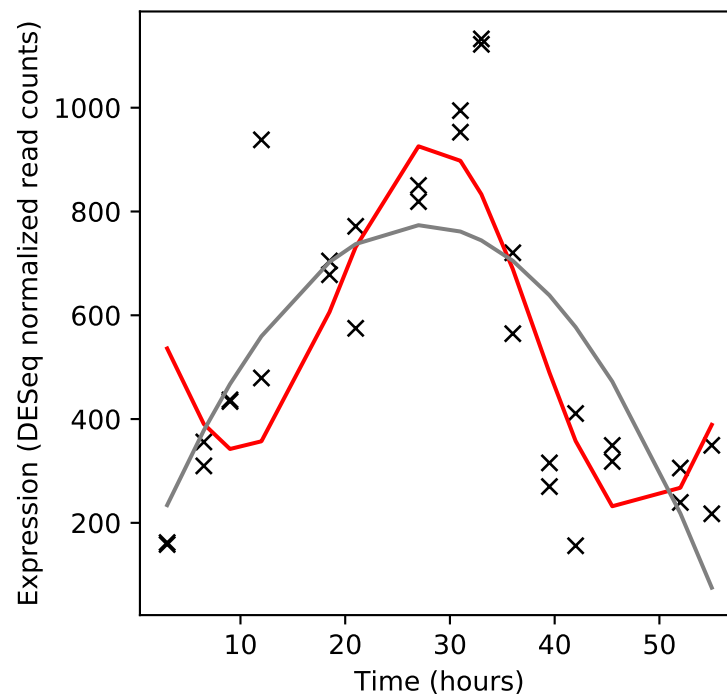
Rv0881/-



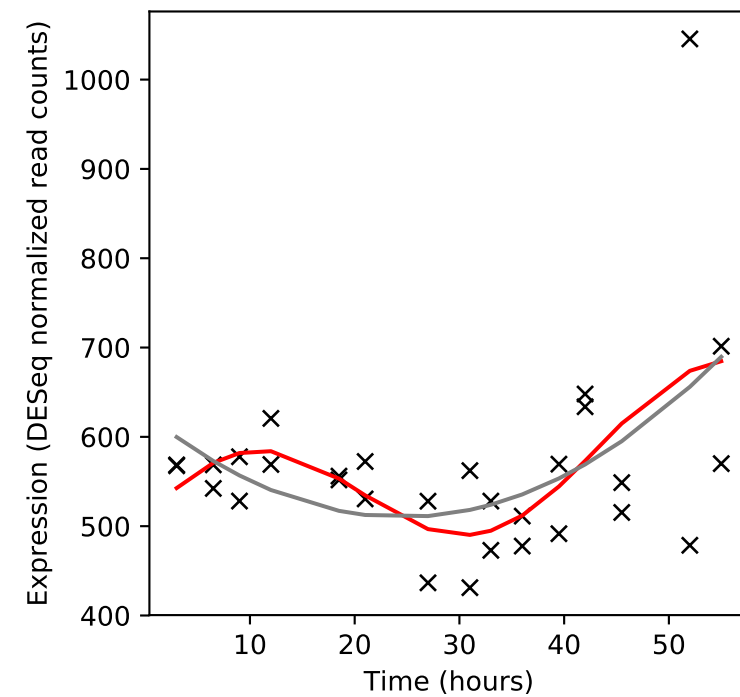
Rv0882/-



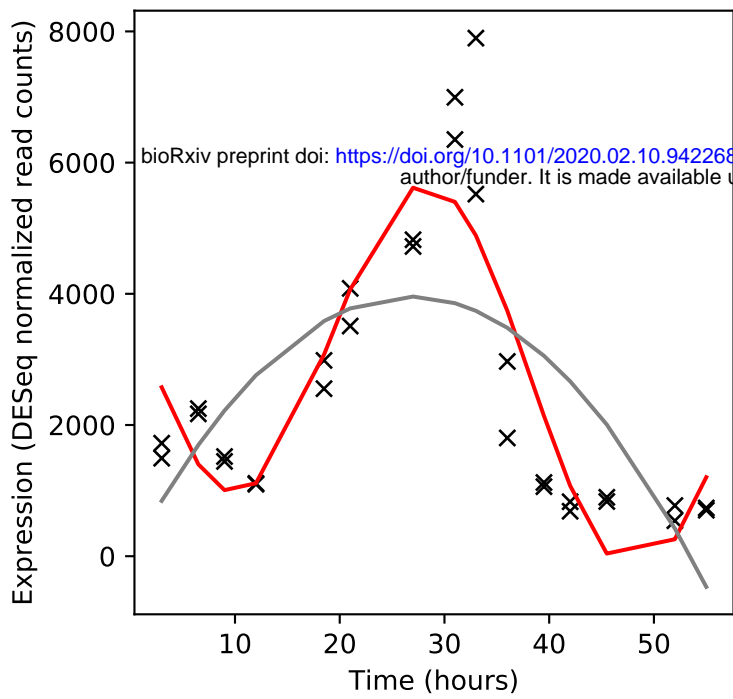
Rv0883c/-



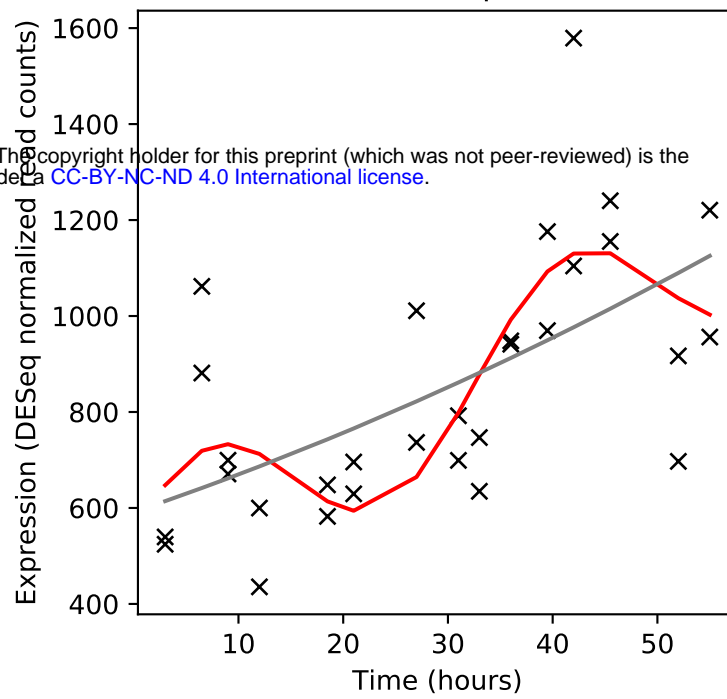
Rv0884c/serC



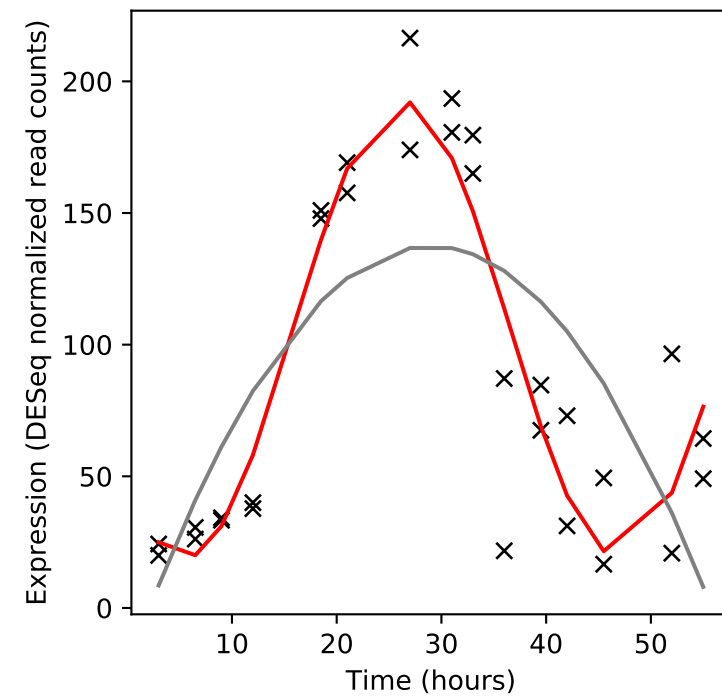
Rv0885/-



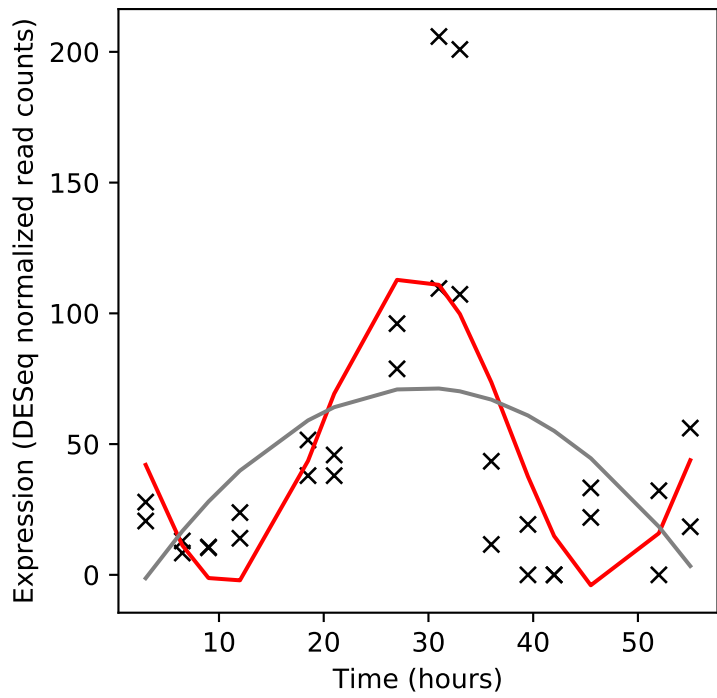
Rv0886/fprB



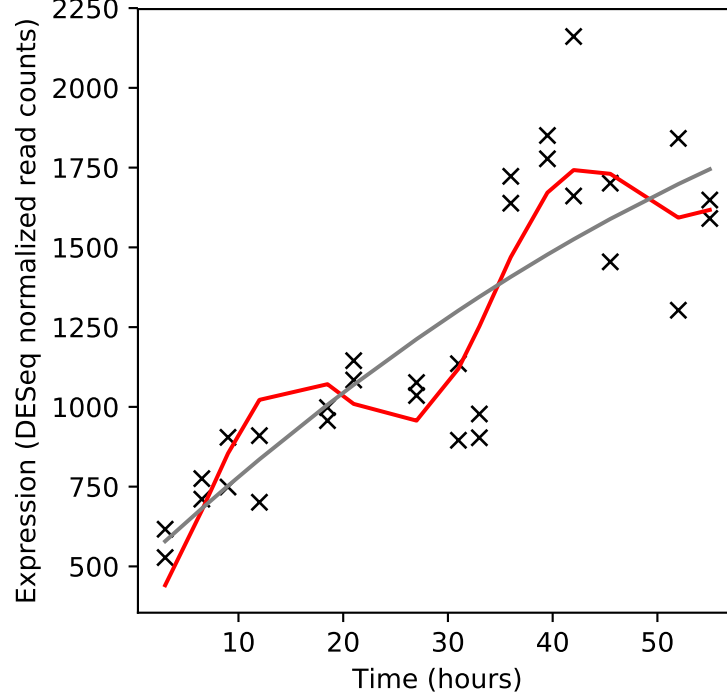
Rv0887c/-



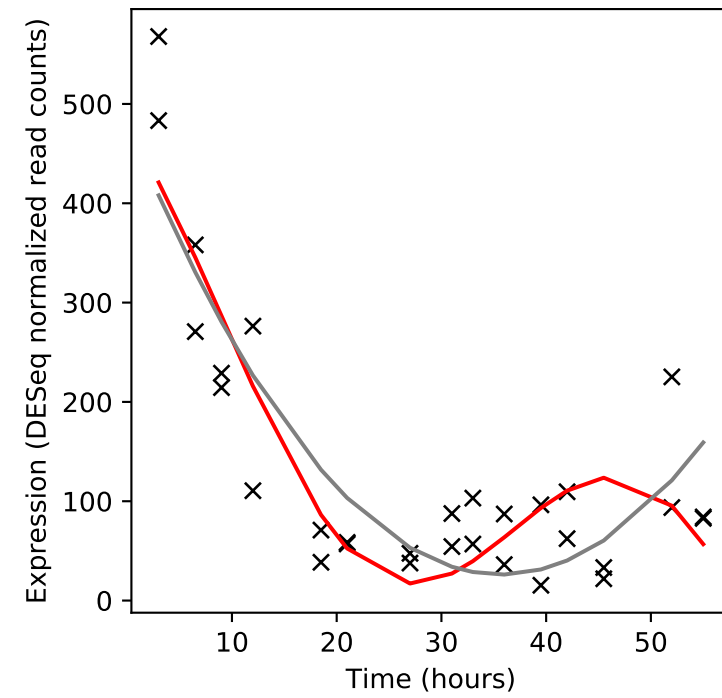
Rv0888/-



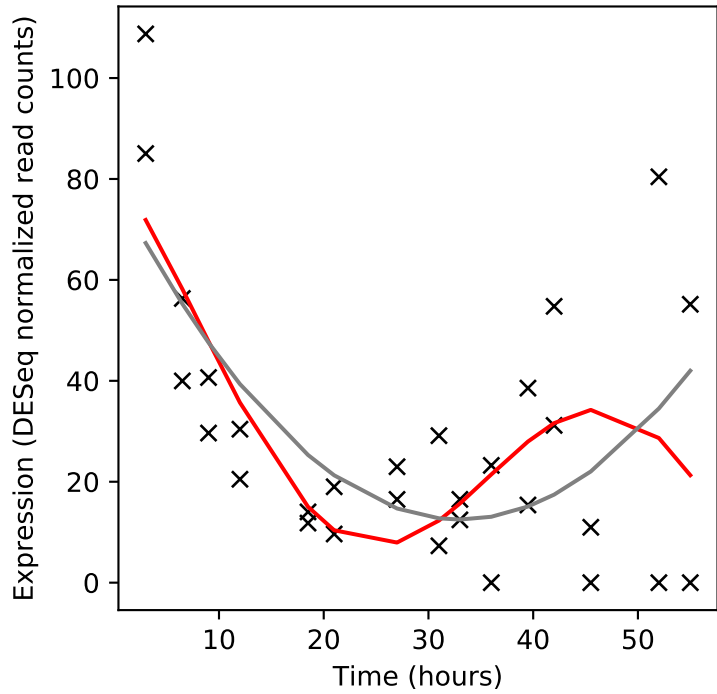
Rv0889c/citA



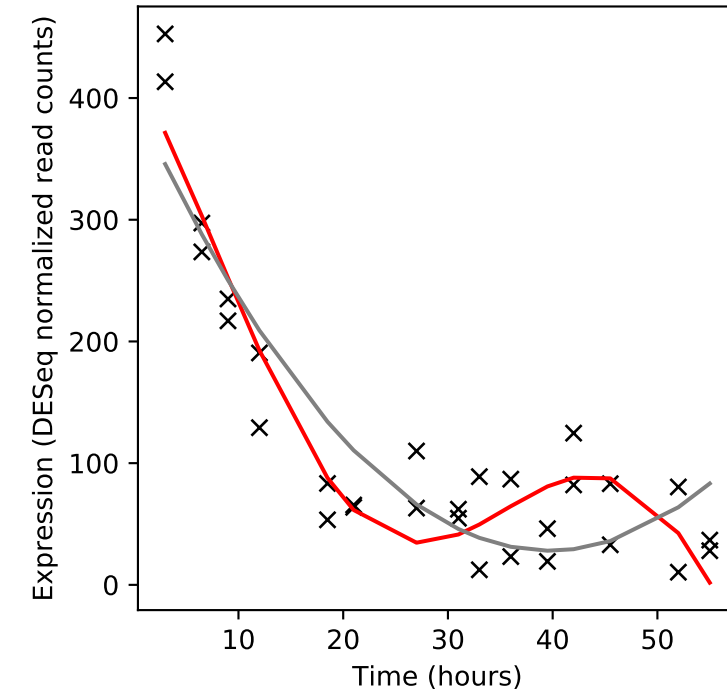
Rv0890c/-



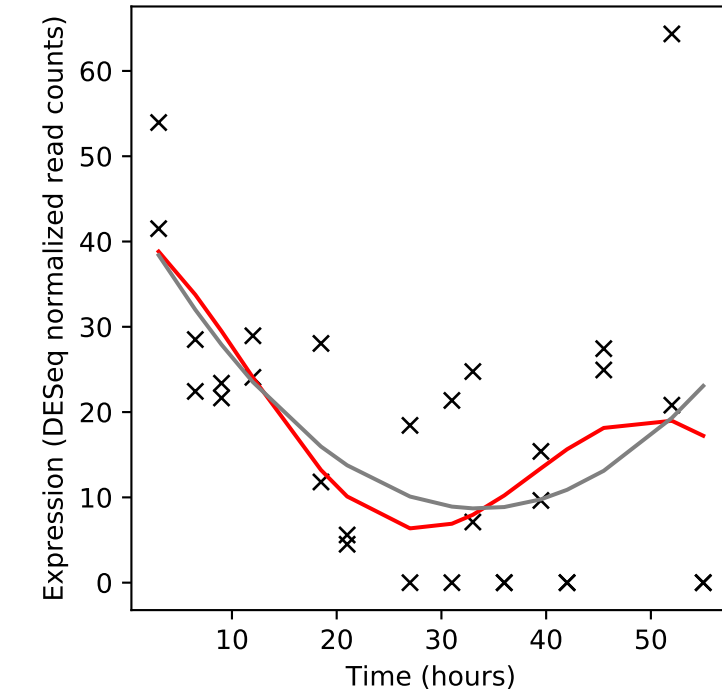
Rv0891c/-



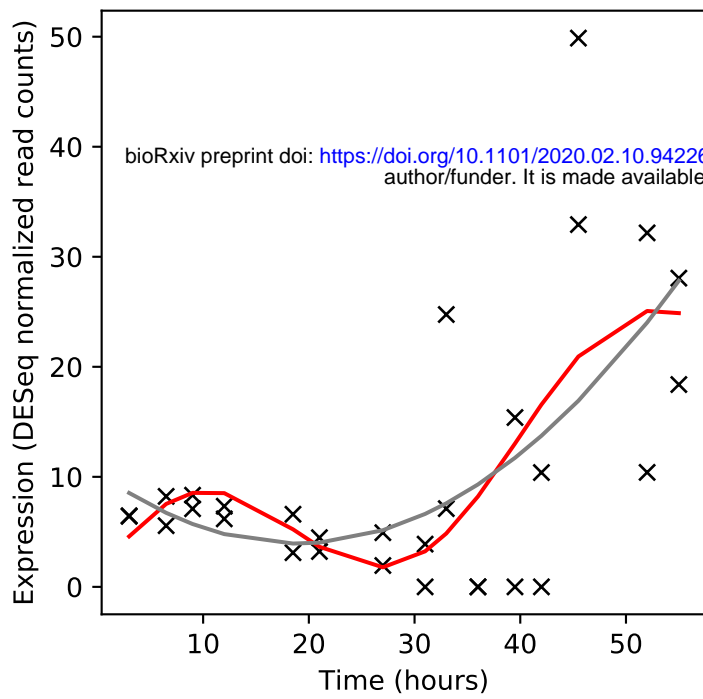
Rv0892/-



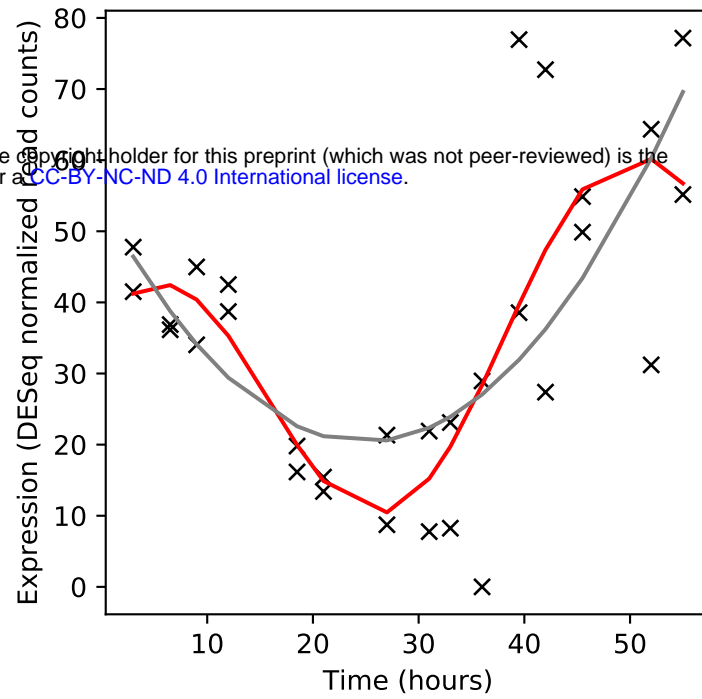
Rv0893c/-



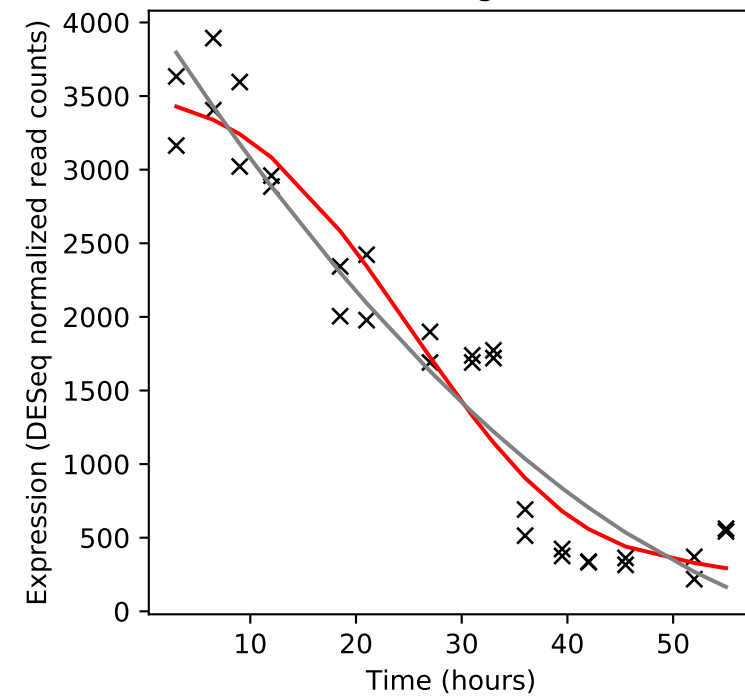
Rv0894/-



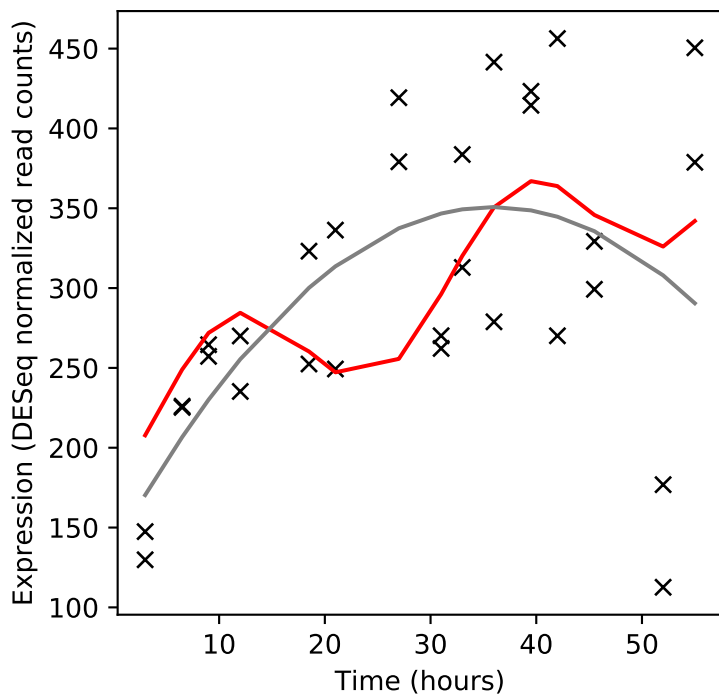
Rv0895/-



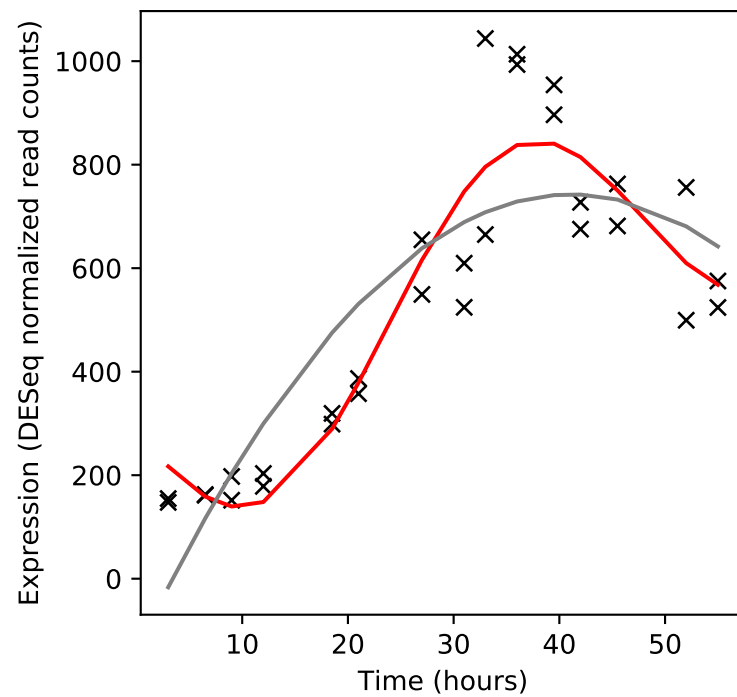
Rv0896/gltA2



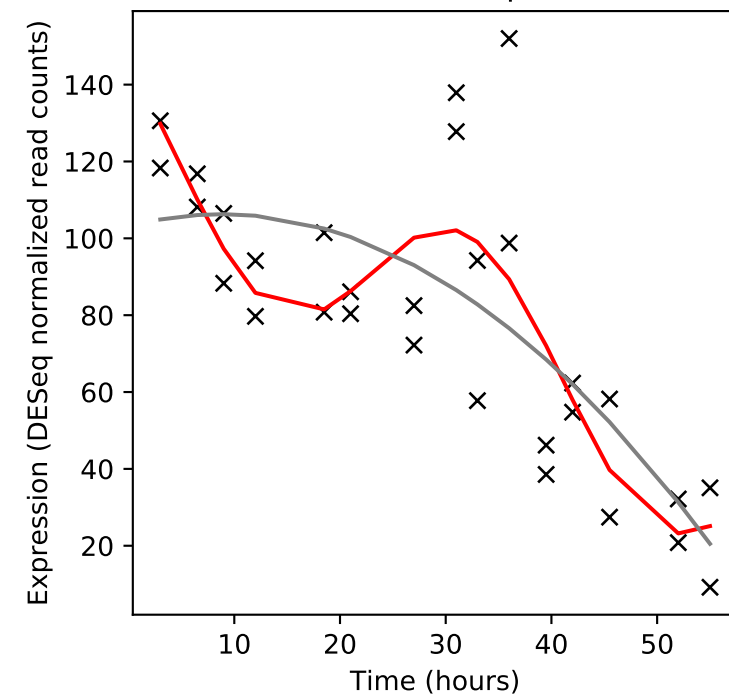
Rv0897c/-



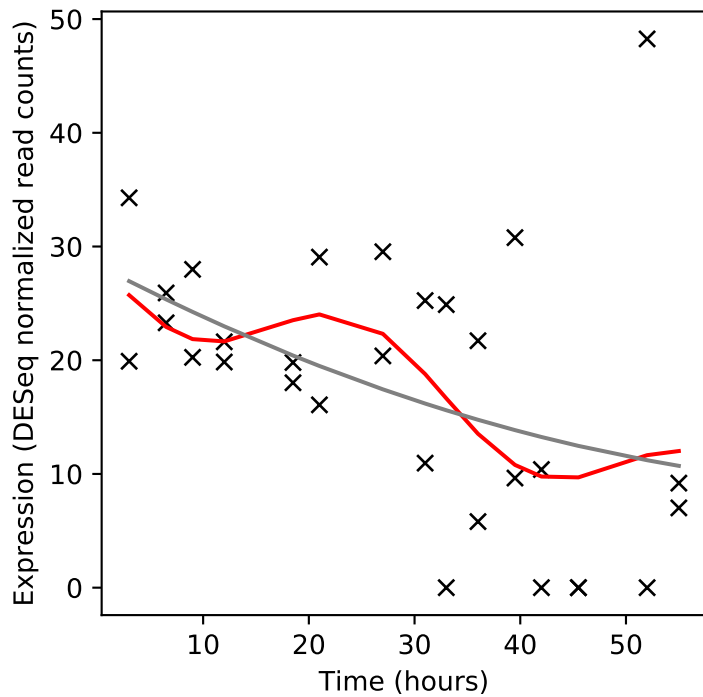
Rv0898c/-



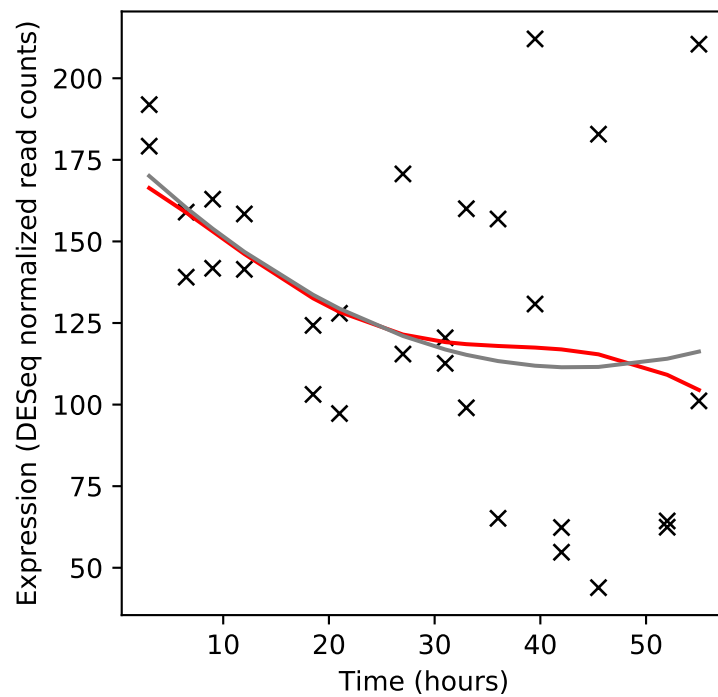
Rv0899/ompA



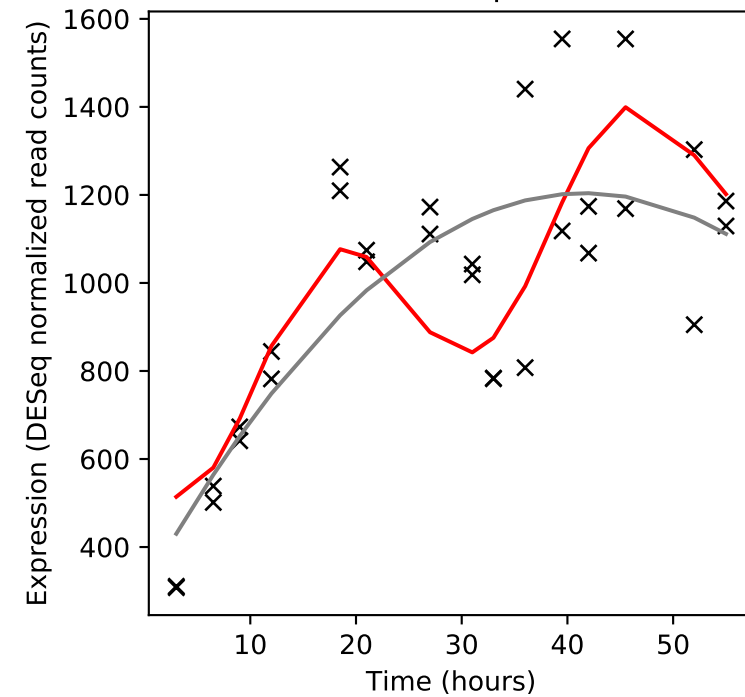
Rv0900/-



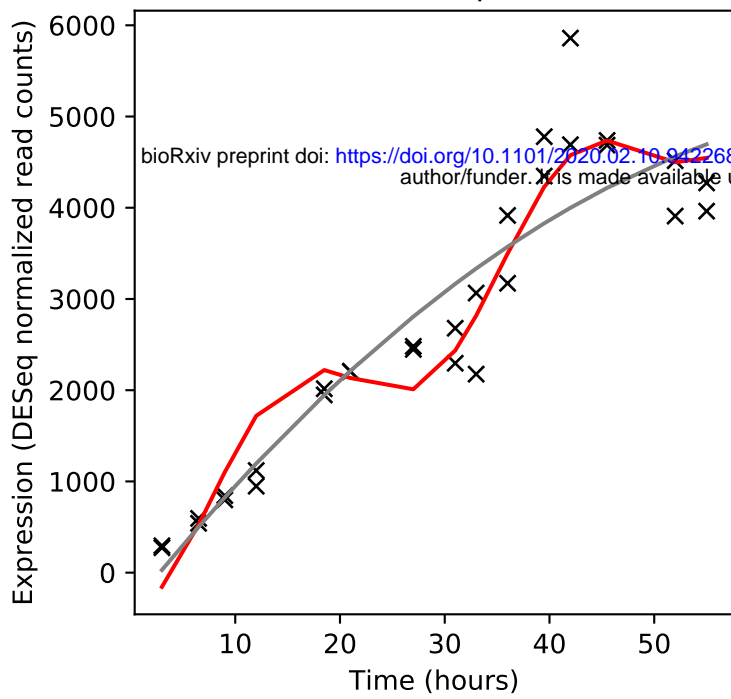
Rv0901/-



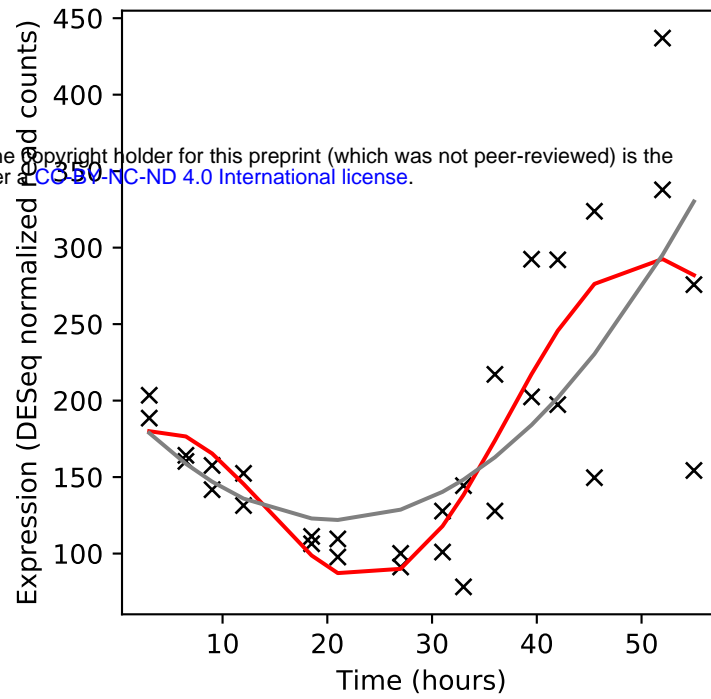
Rv0902c/prrB



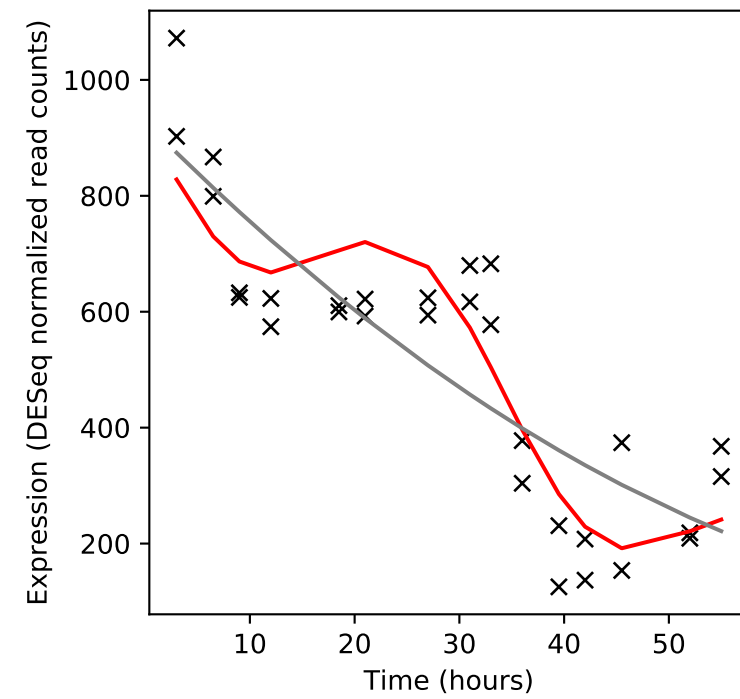
Rv0903c/prrA



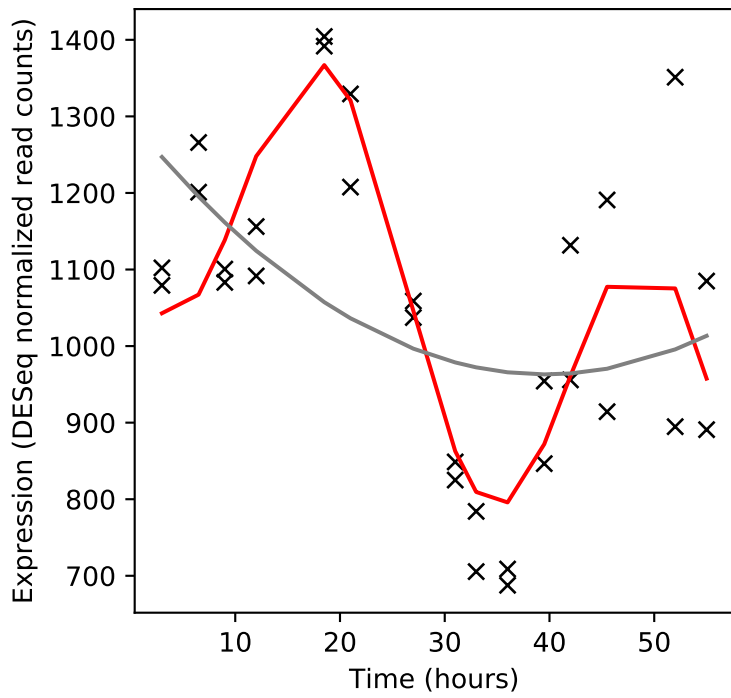
Rv0904c/accD3



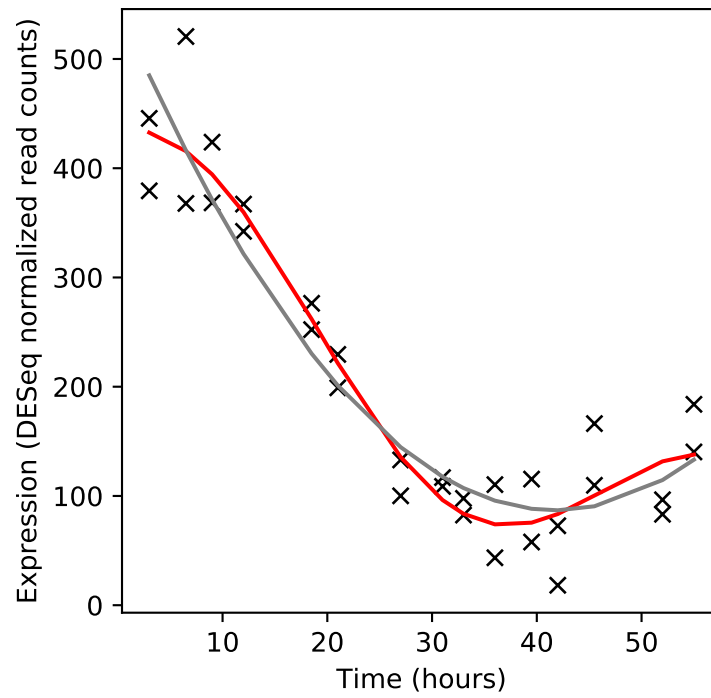
Rv0905/echA6



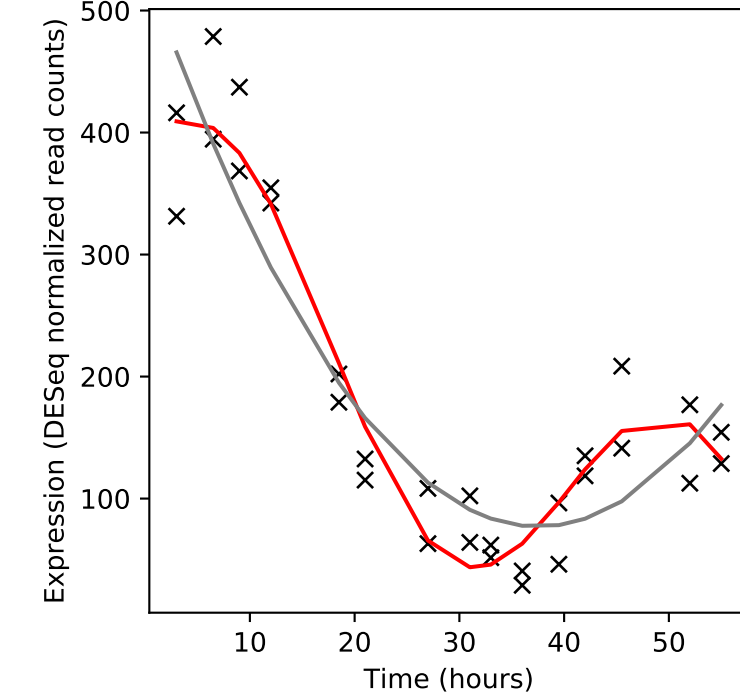
Rv0906/-



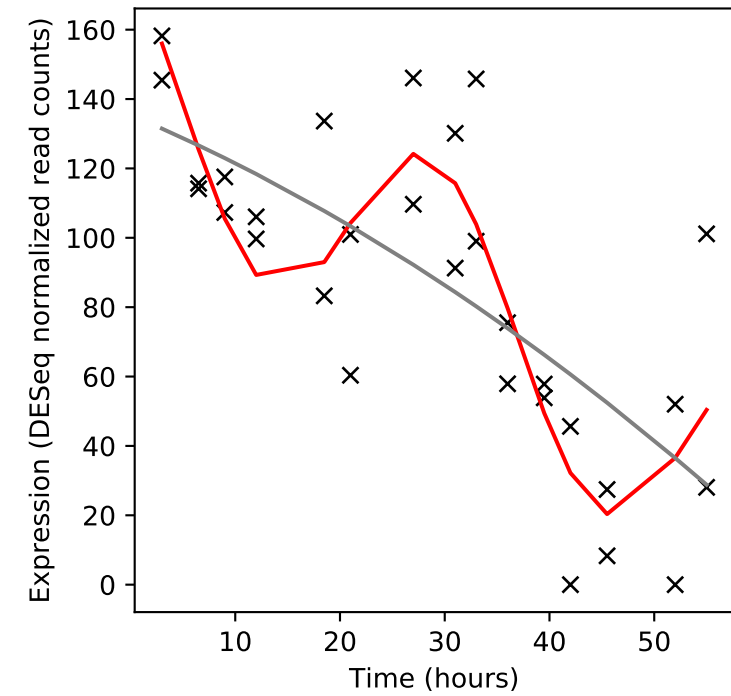
Rv0907/-



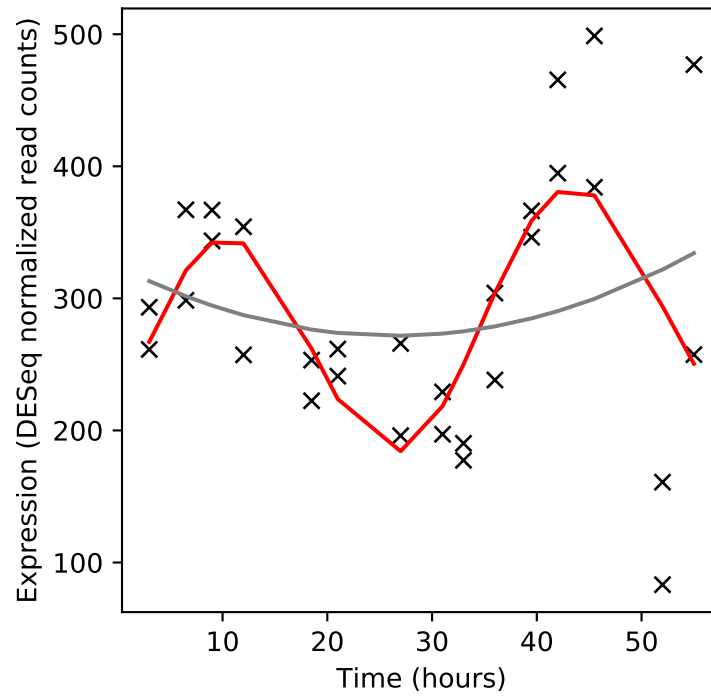
Rv0908/ctpE



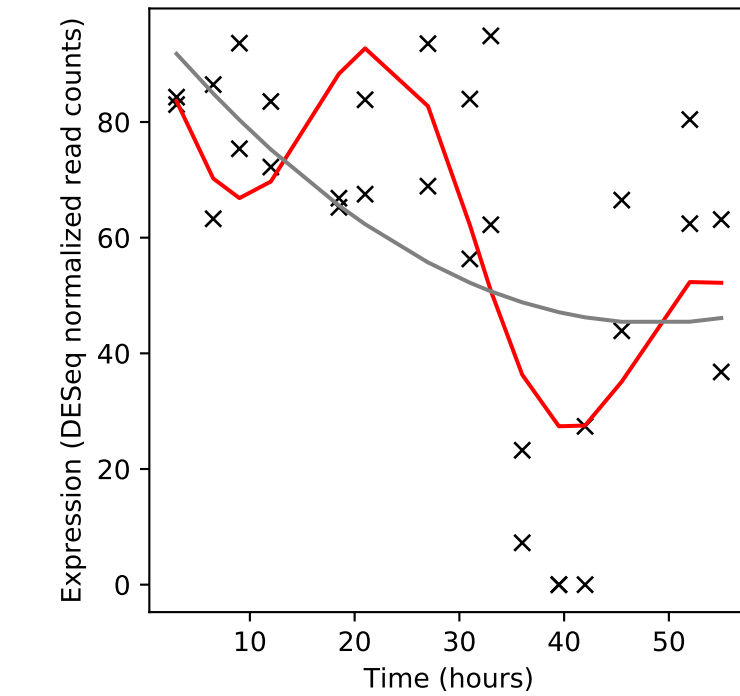
Rv0909/-



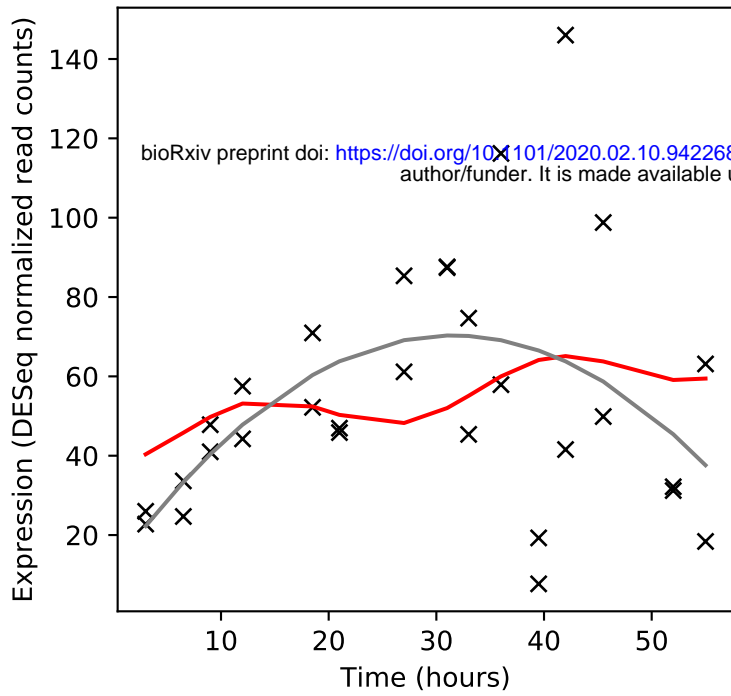
Rv0910/-



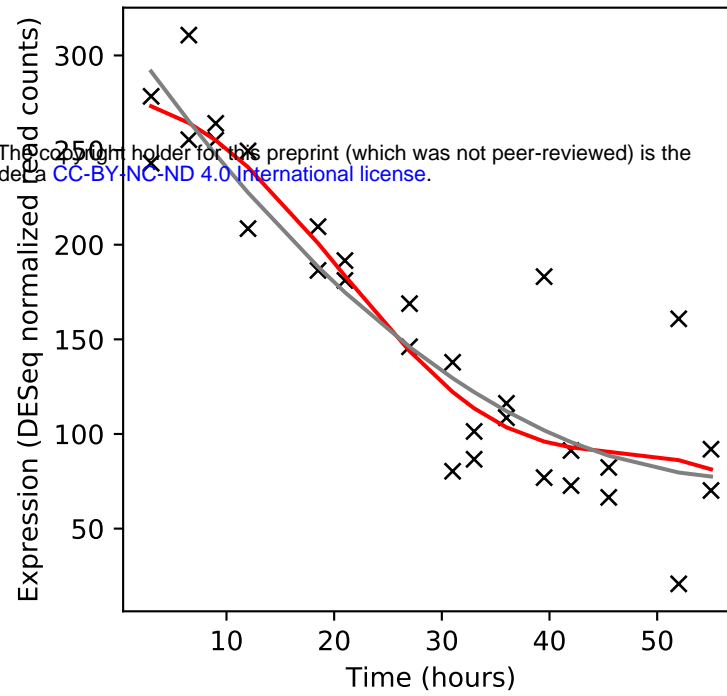
Rv0911/-



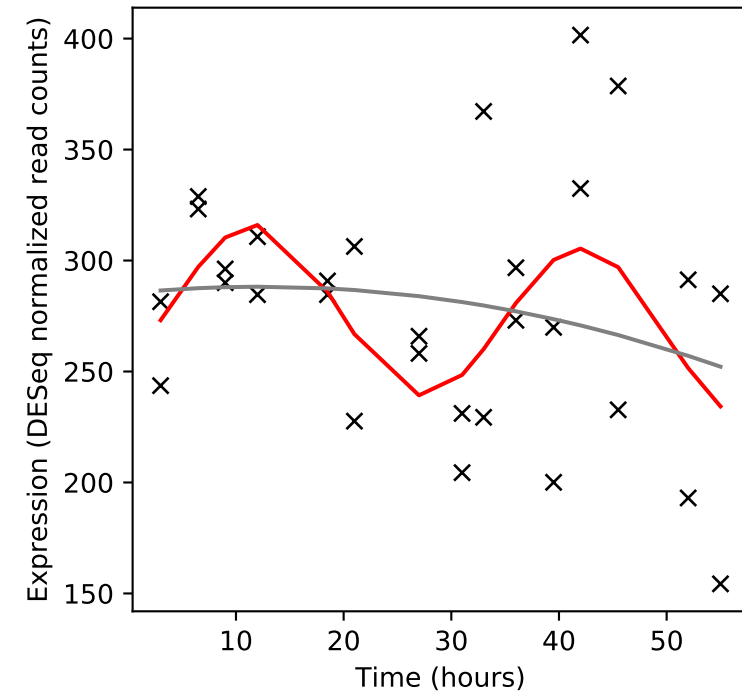
Rv0912/-



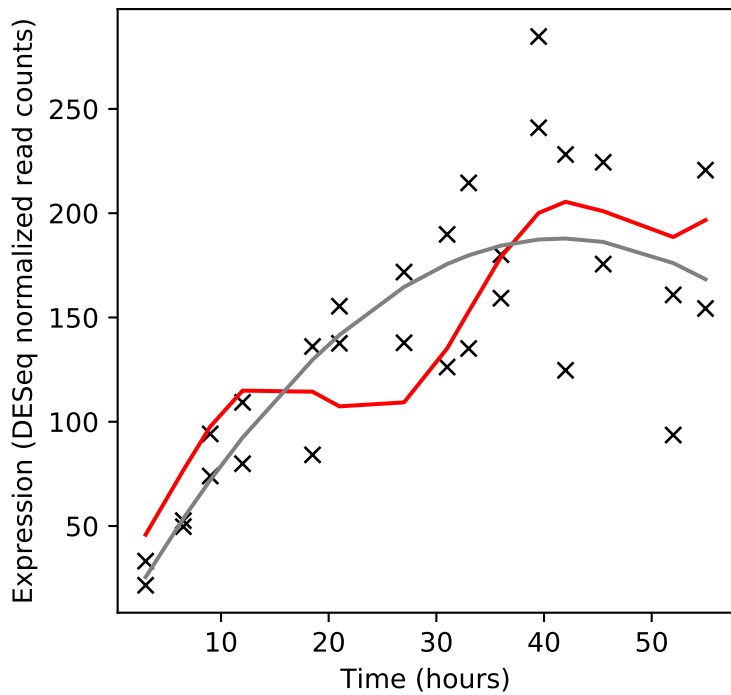
Rv0913c/-



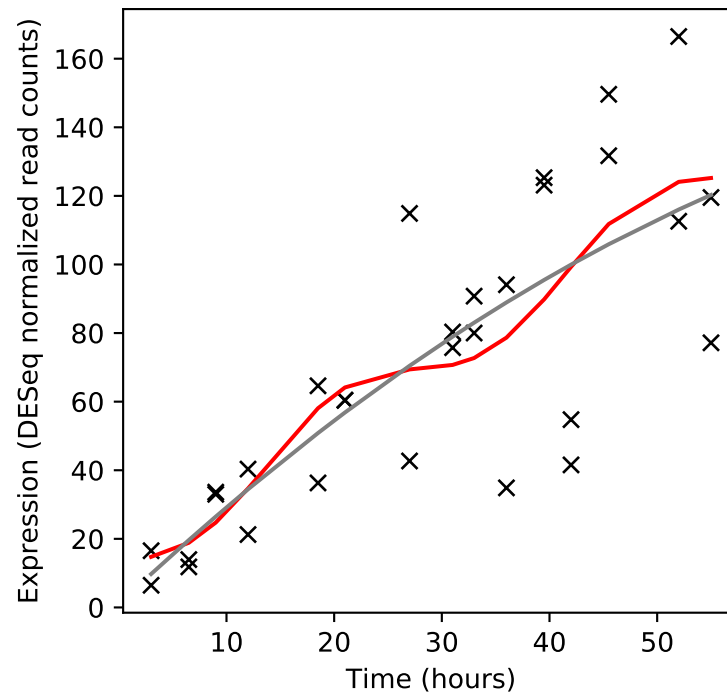
Rv0914c/-



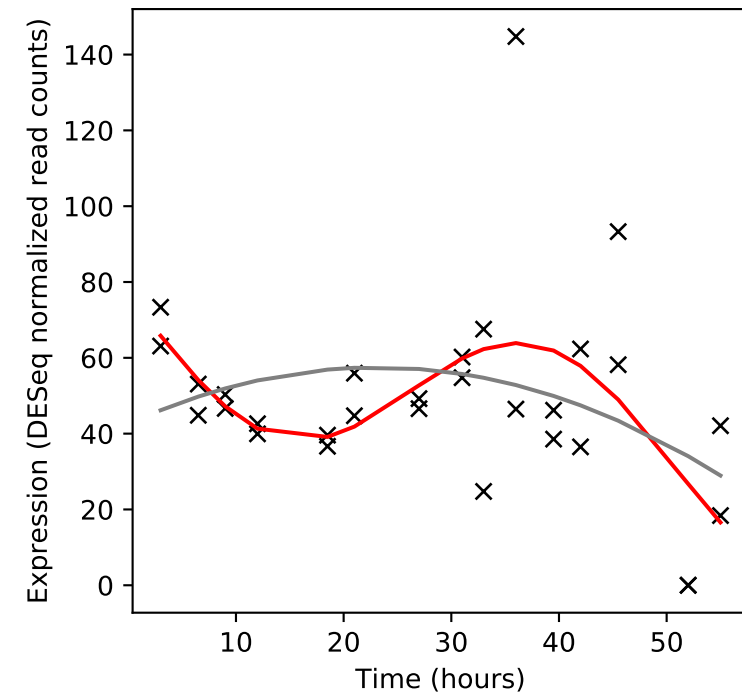
Rv0915c/PPE14



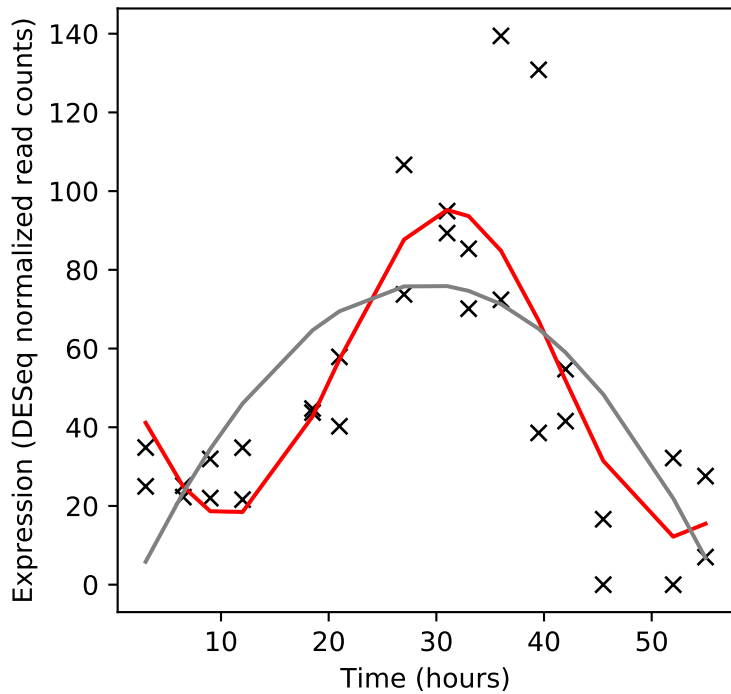
Rv0916c/PE7



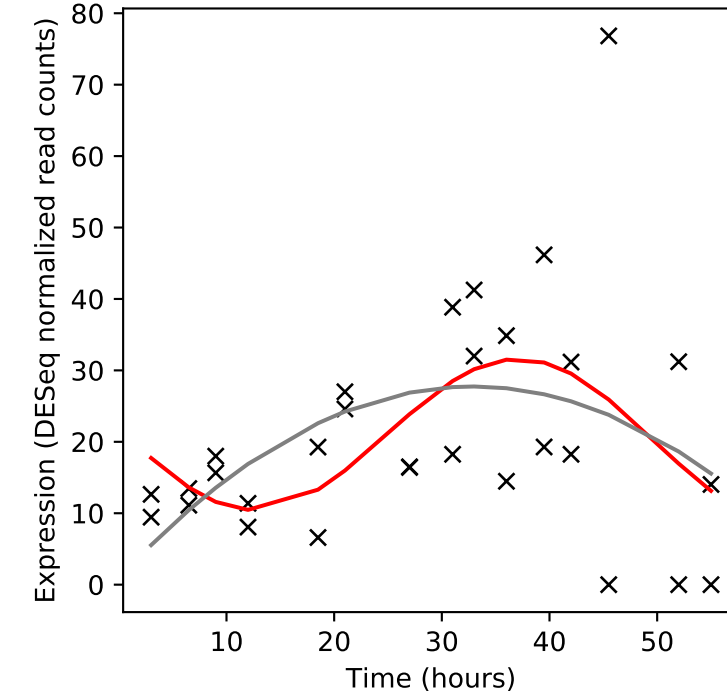
Rv0917/betP



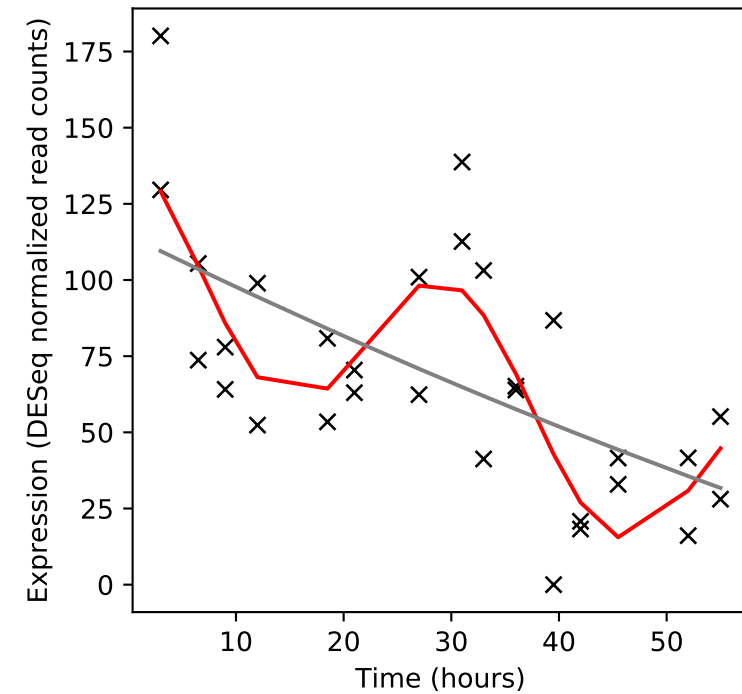
Rv0918/-



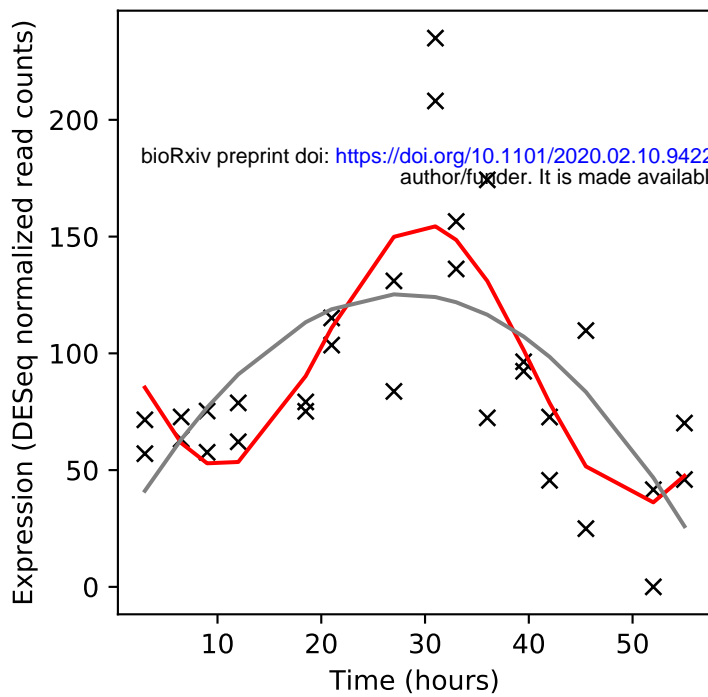
Rv0919/-



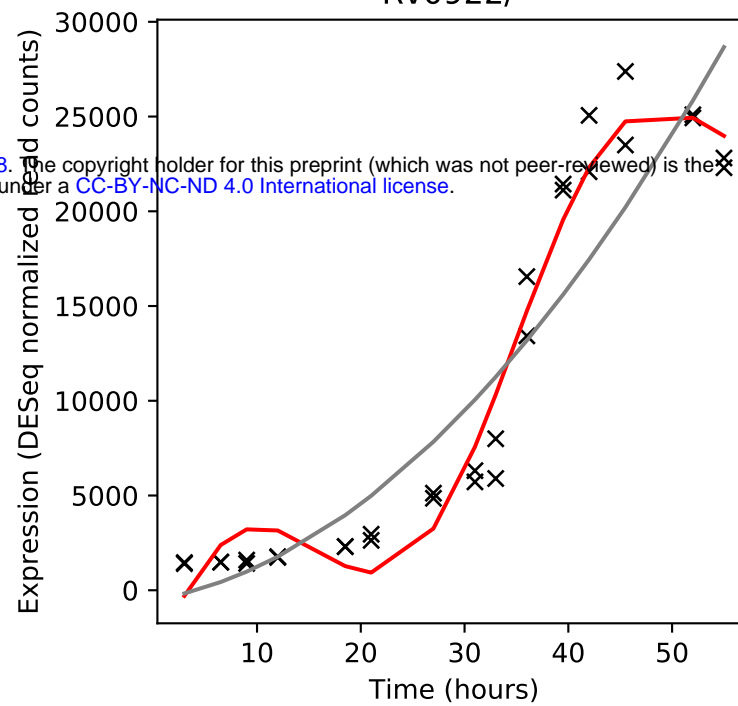
Rv0920c/-



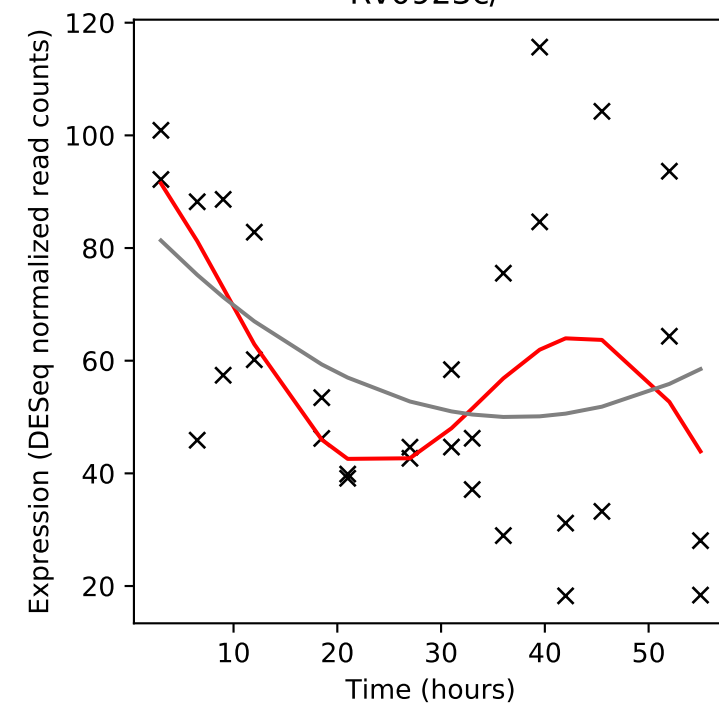
Rv0921/-



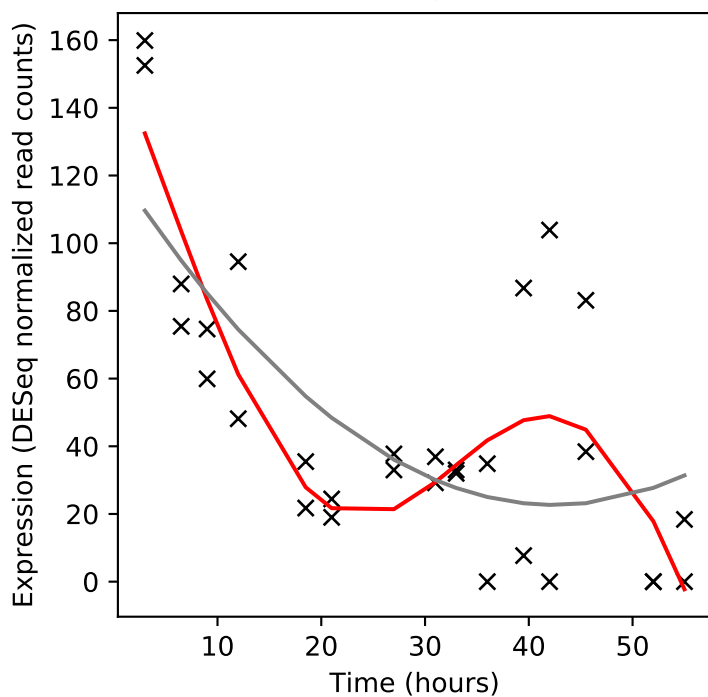
Rv0922/-



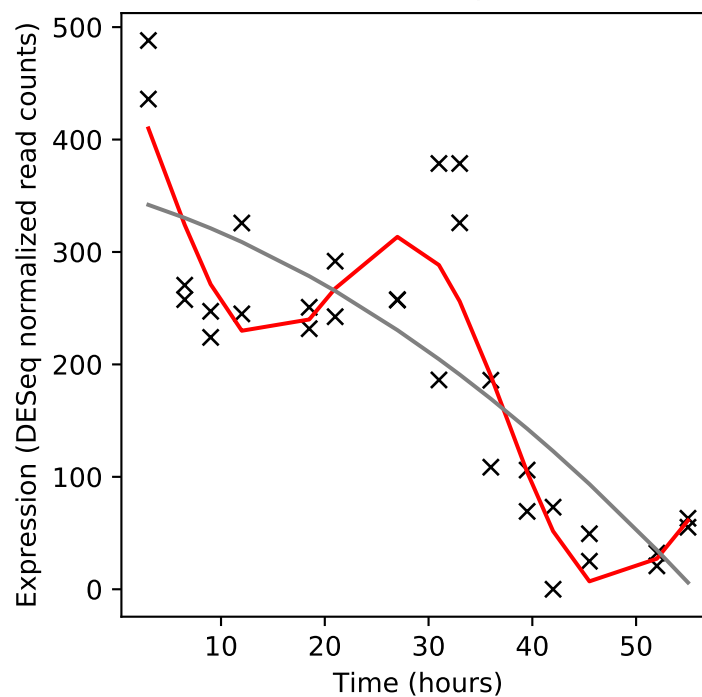
Rv0923c/-



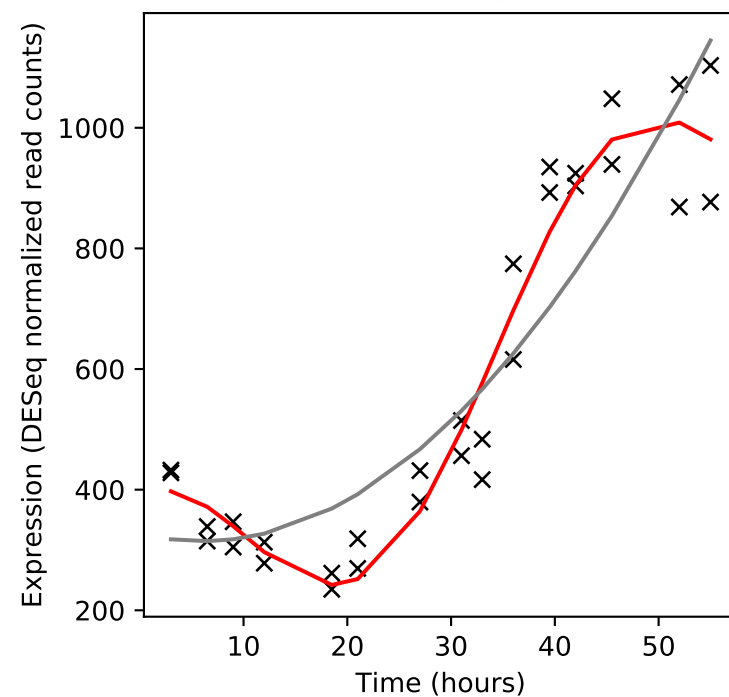
Rv0924c/mntH



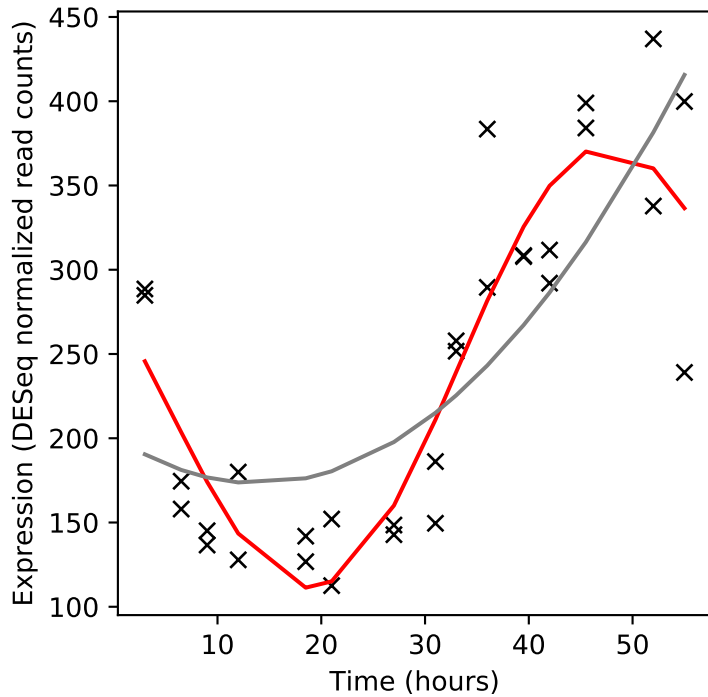
Rv0925c/-



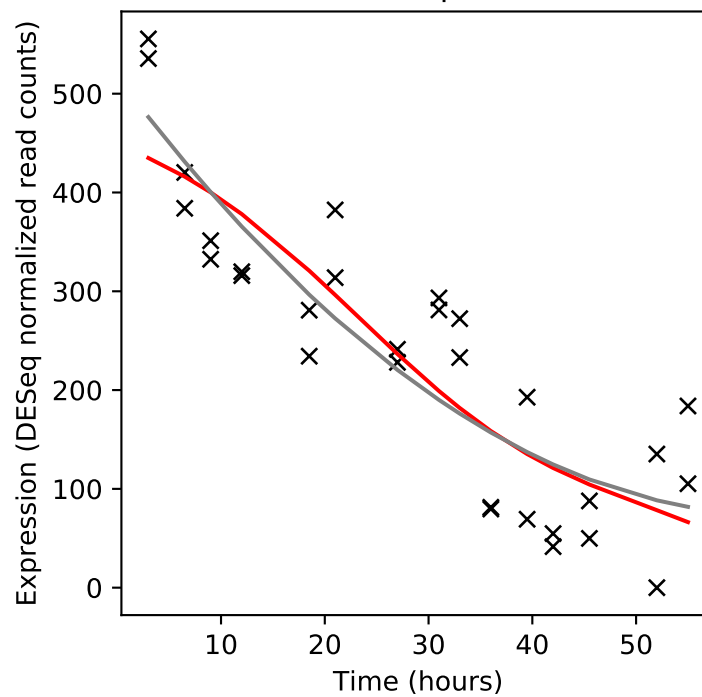
Rv0926c/-



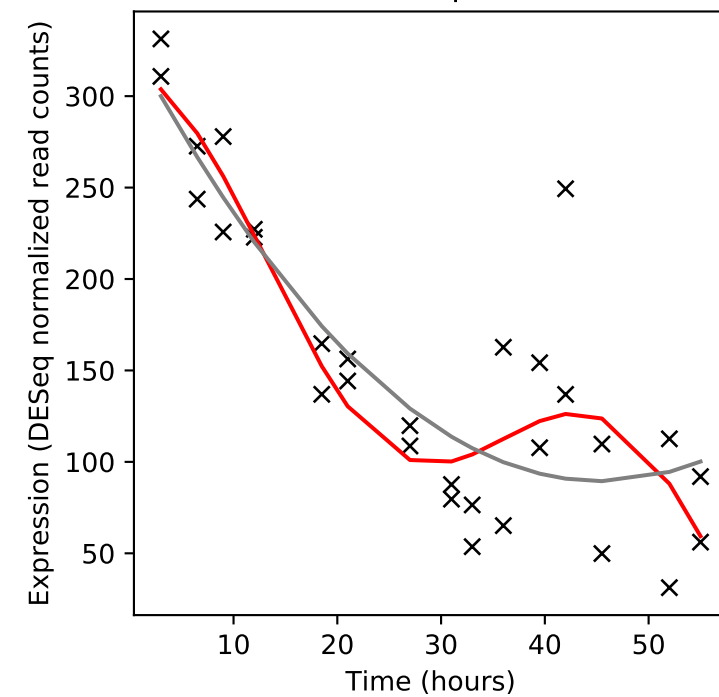
Rv0927c/-



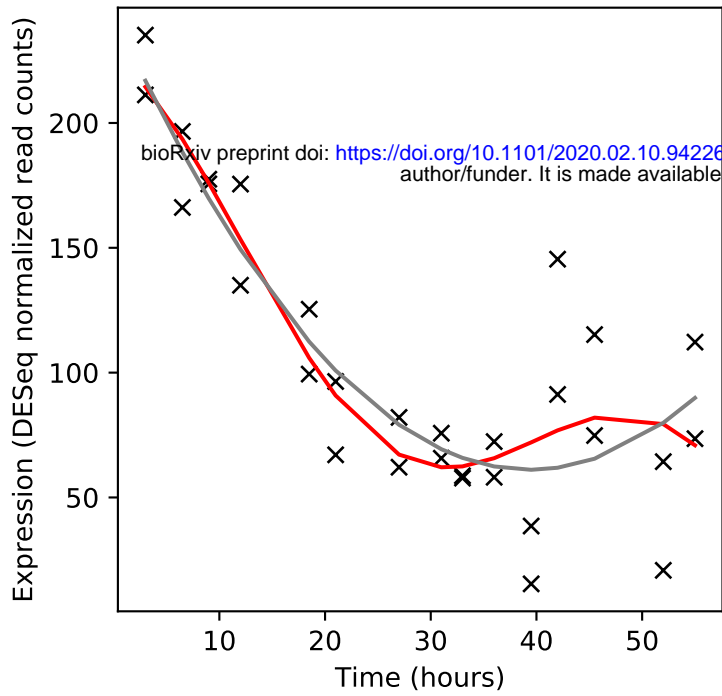
Rv0928/pstS3



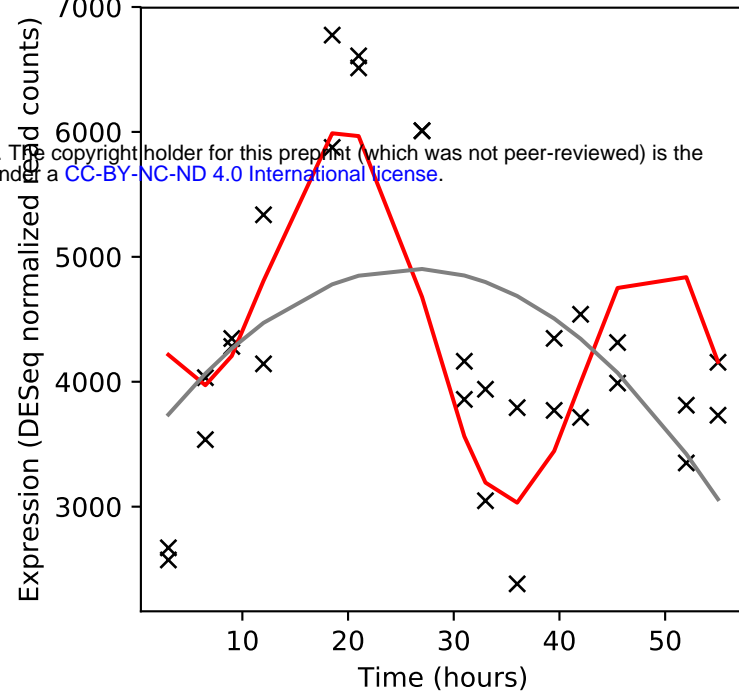
Rv0929/pstC2



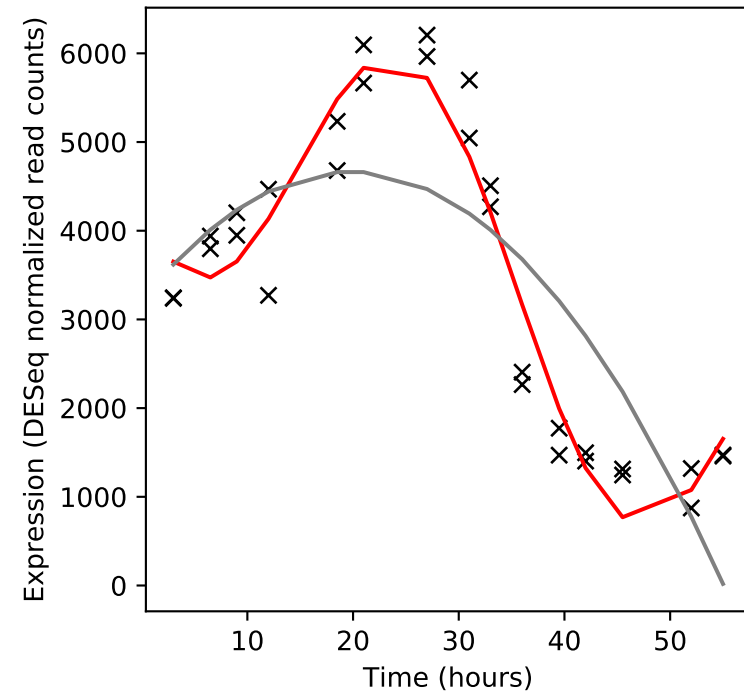
Rv0930/pstA1



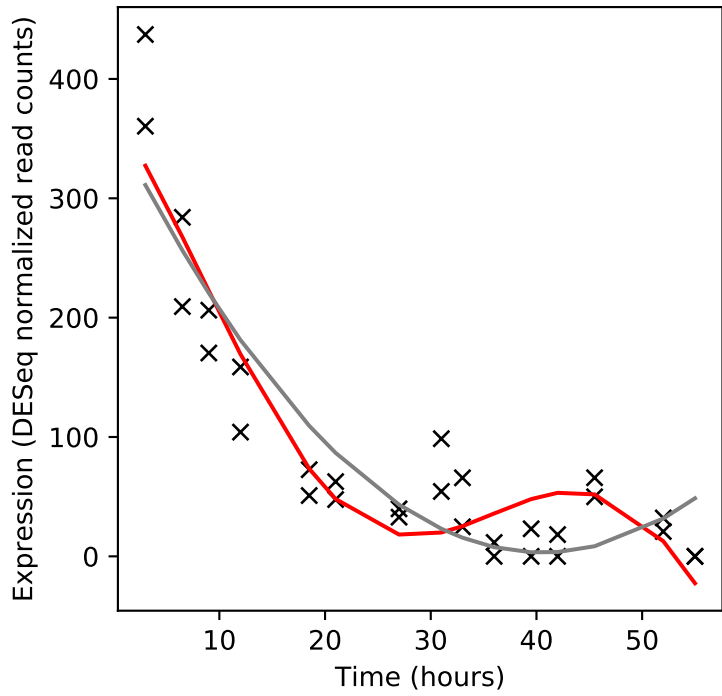
Rv0931c/pknD



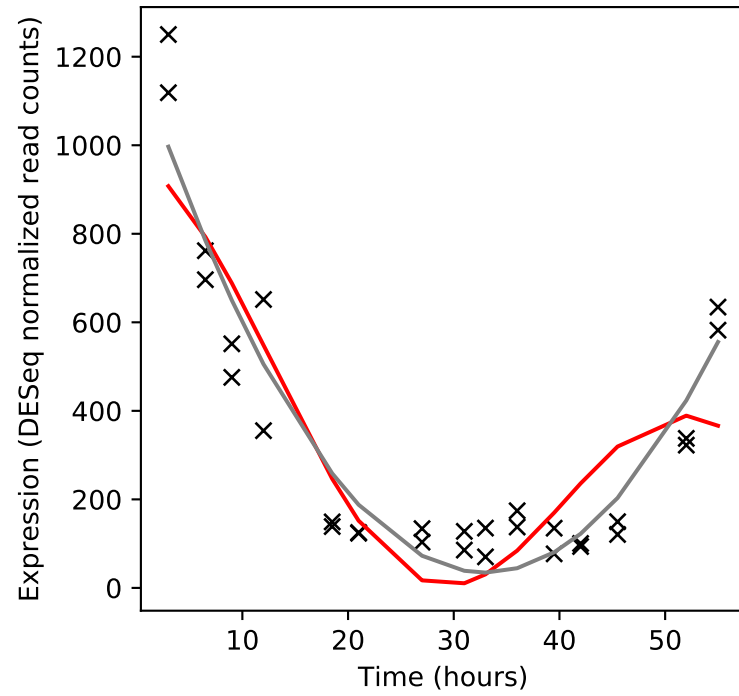
Rv0932c/pstS2



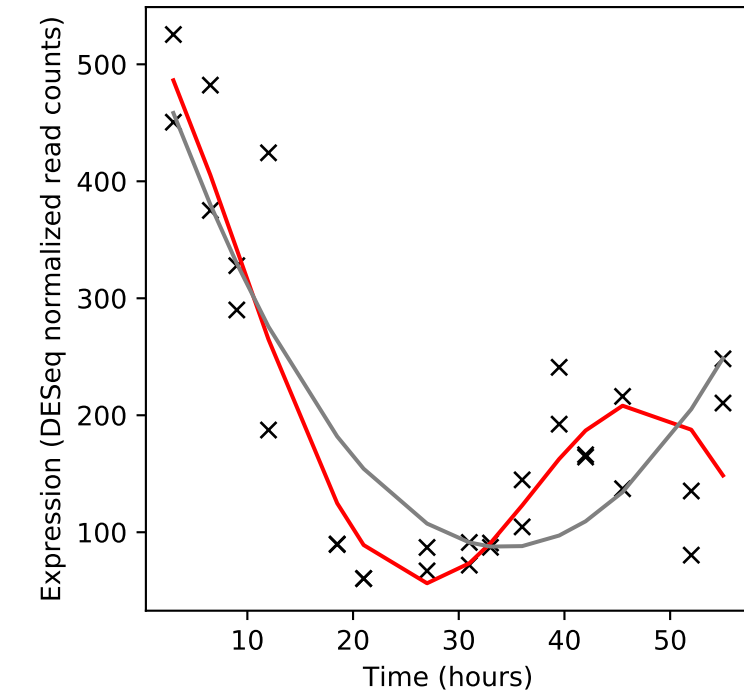
Rv0933/pstB



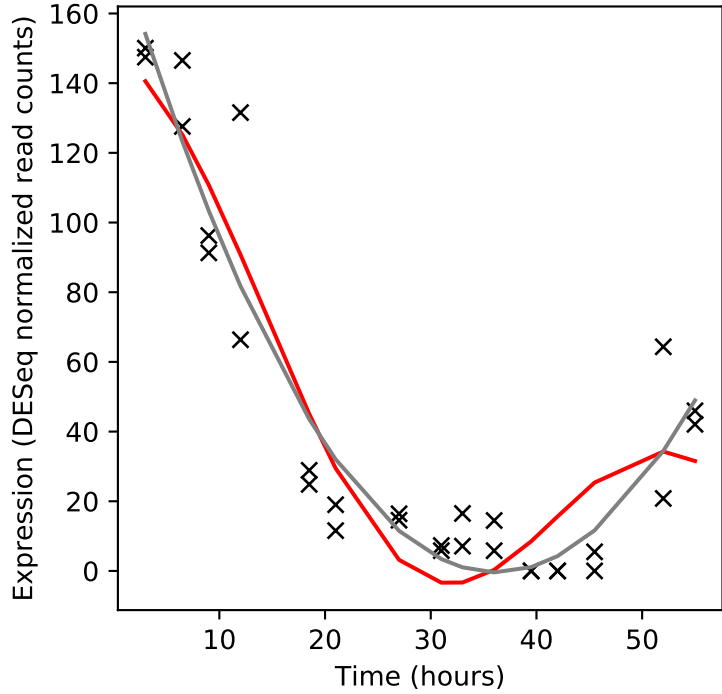
Rv0934/pstS1



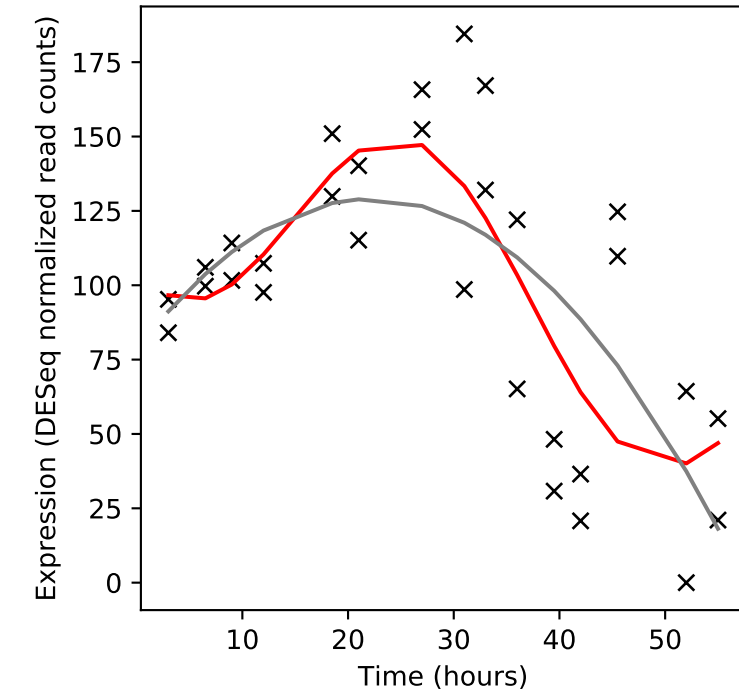
Rv0935/pstC1



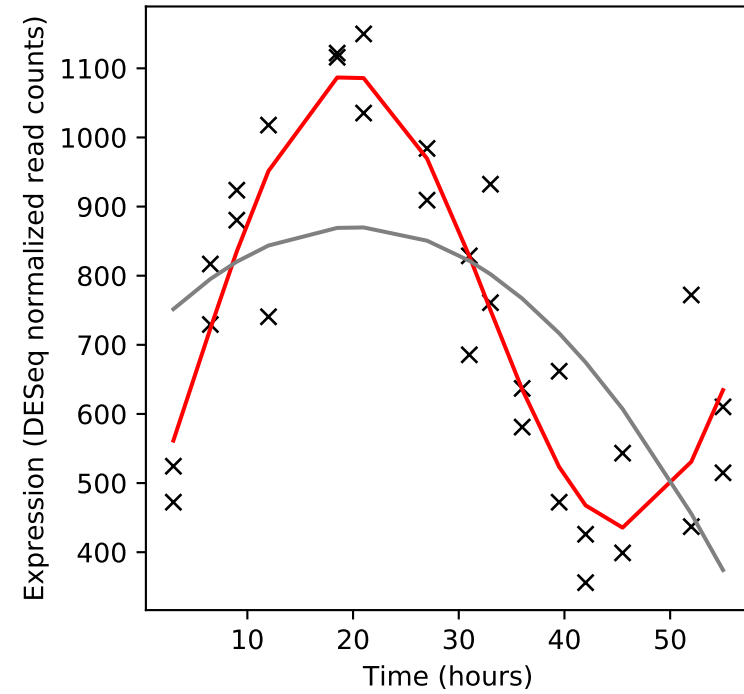
Rv0936/pstA2



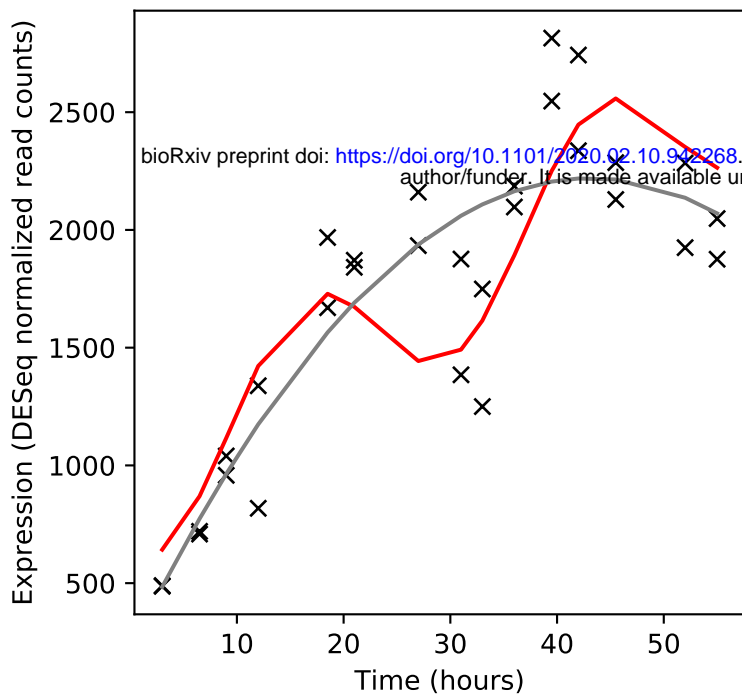
Rv0937c/mku



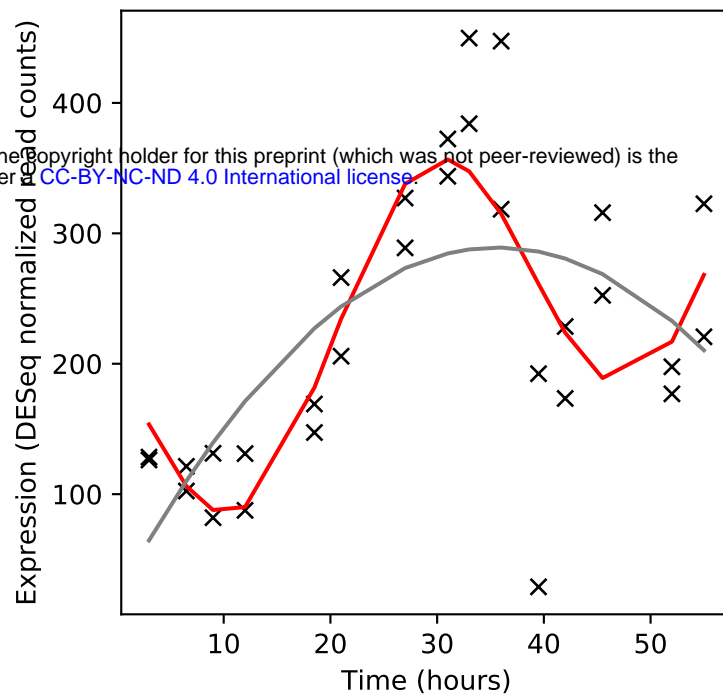
Rv0938/ligD



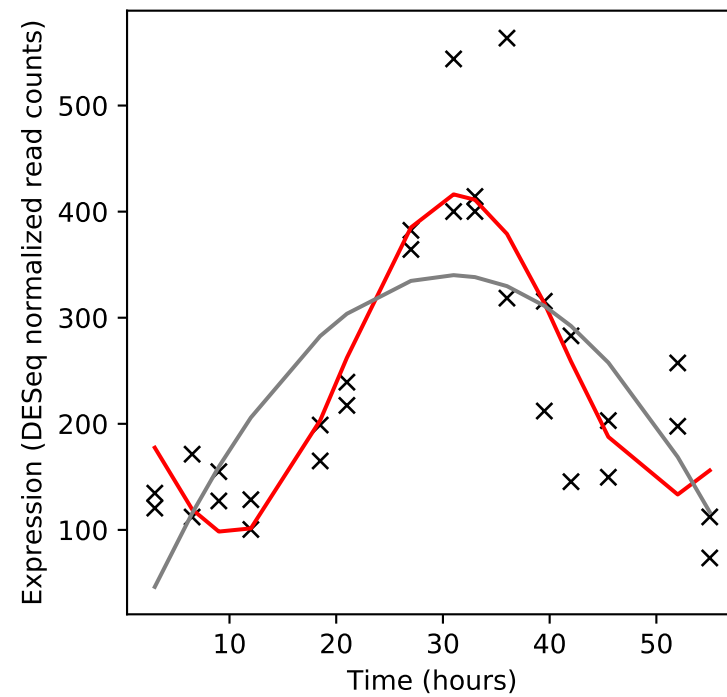
Rv0939/-



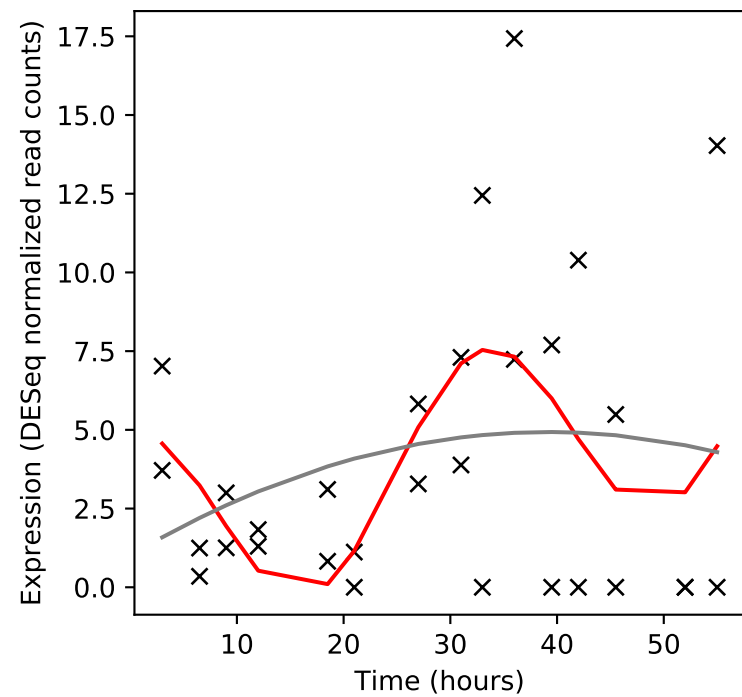
Rv0940c/-



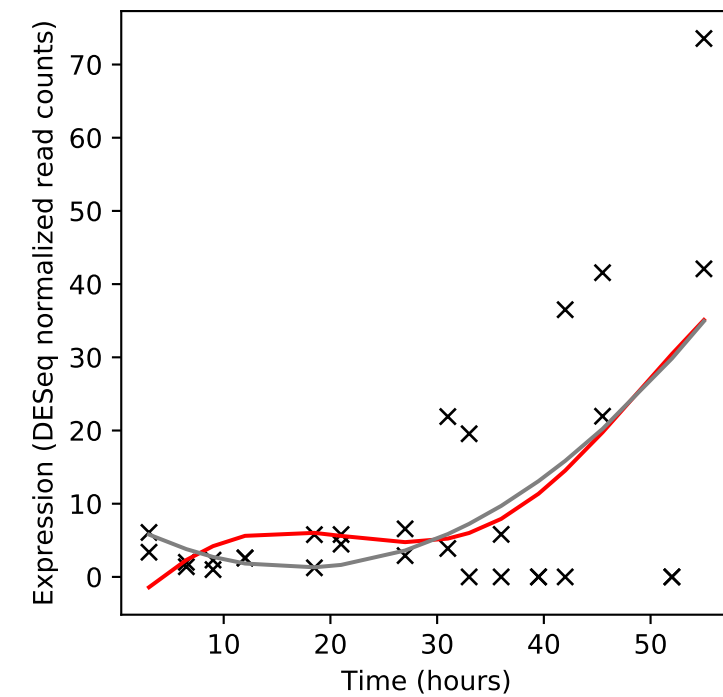
Rv0941c/-



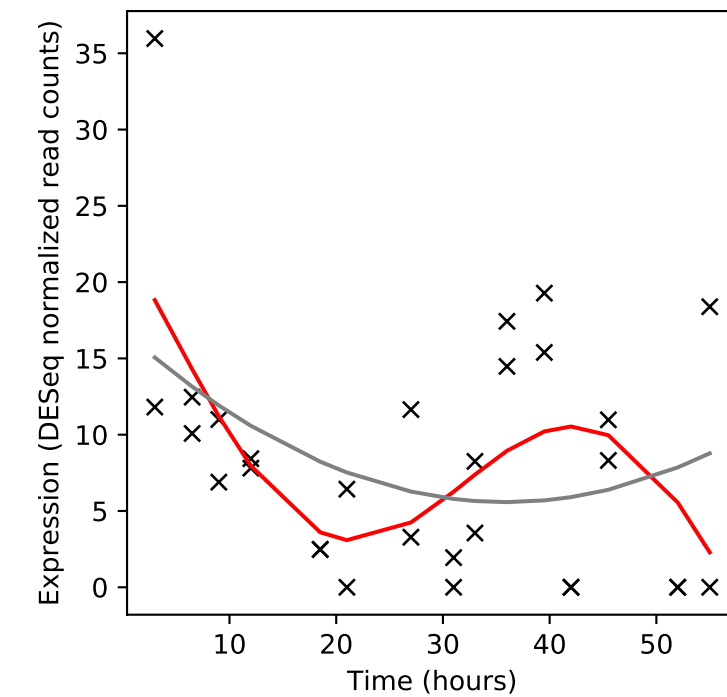
Rv0942/-



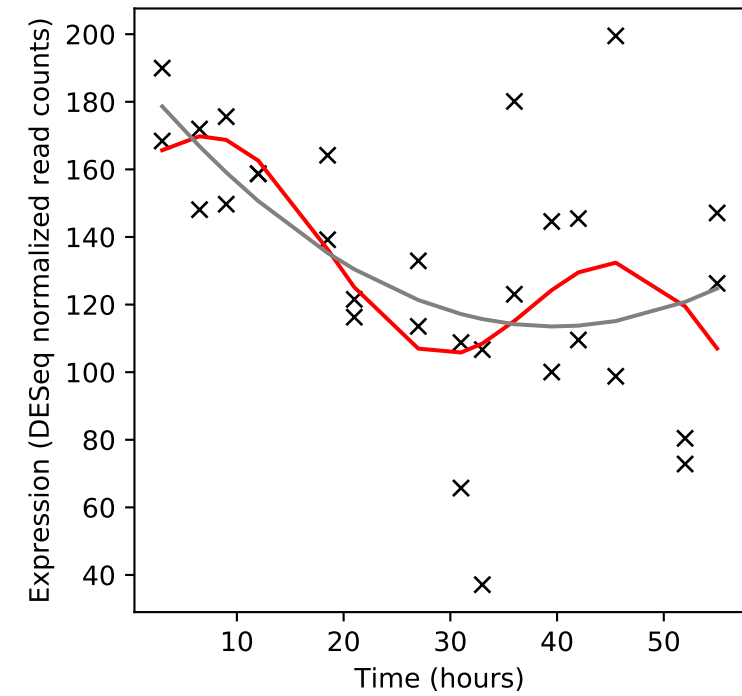
Rv0943c/-



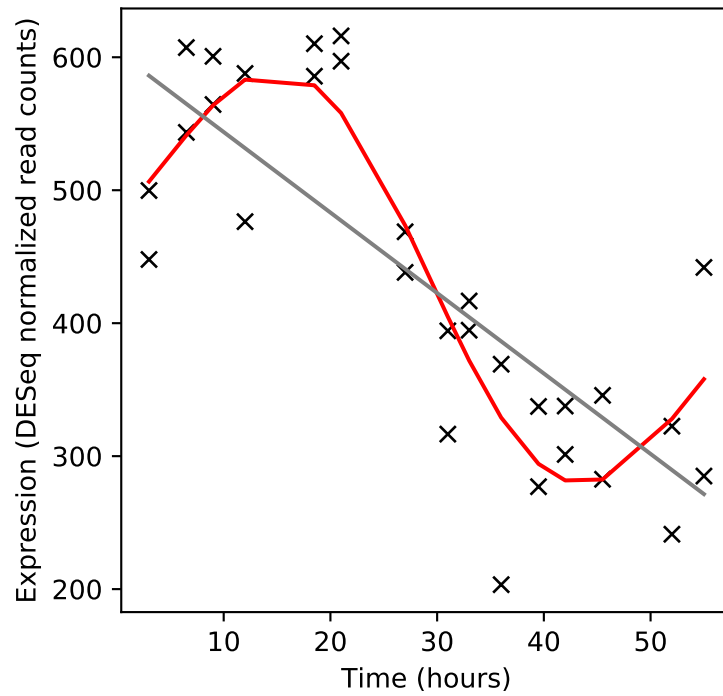
Rv0944/-



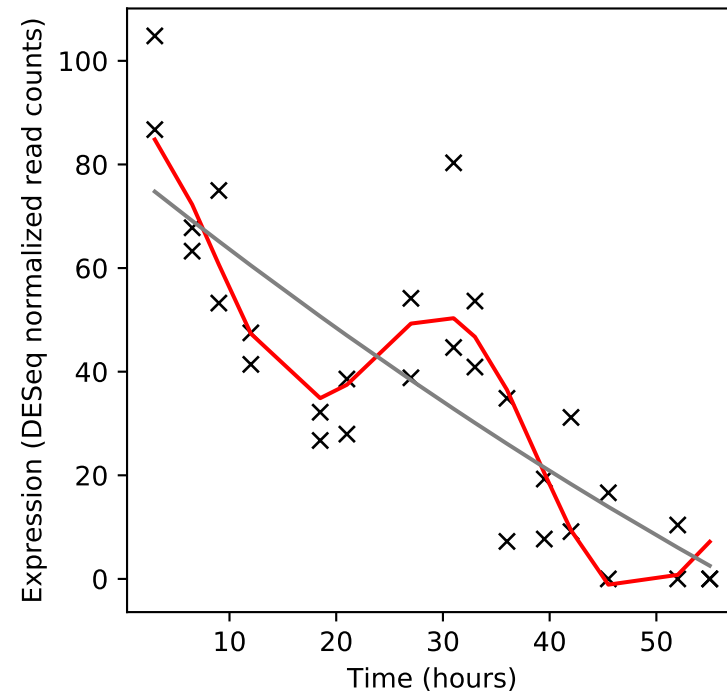
Rv0945/-



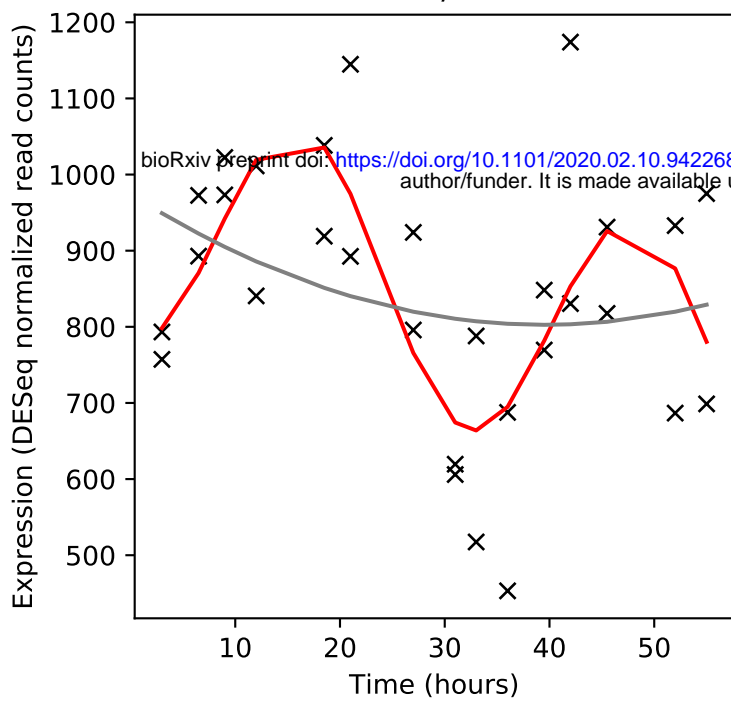
Rv0946c/pgi



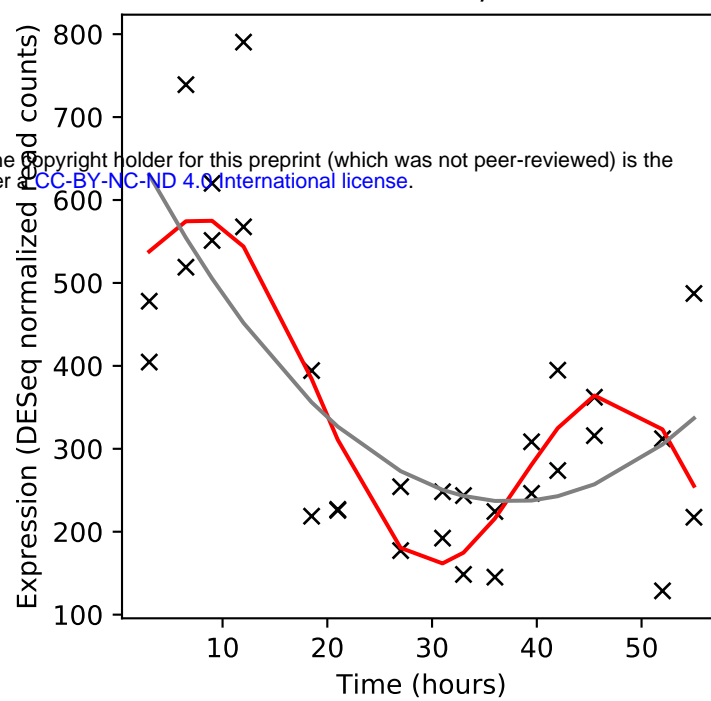
Rv0948c/-



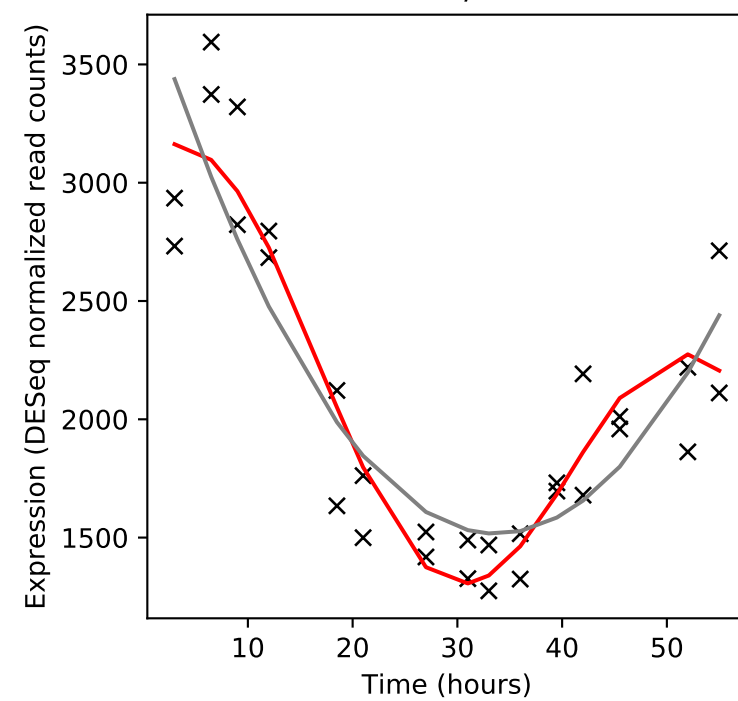
Rv0949/uvrD1



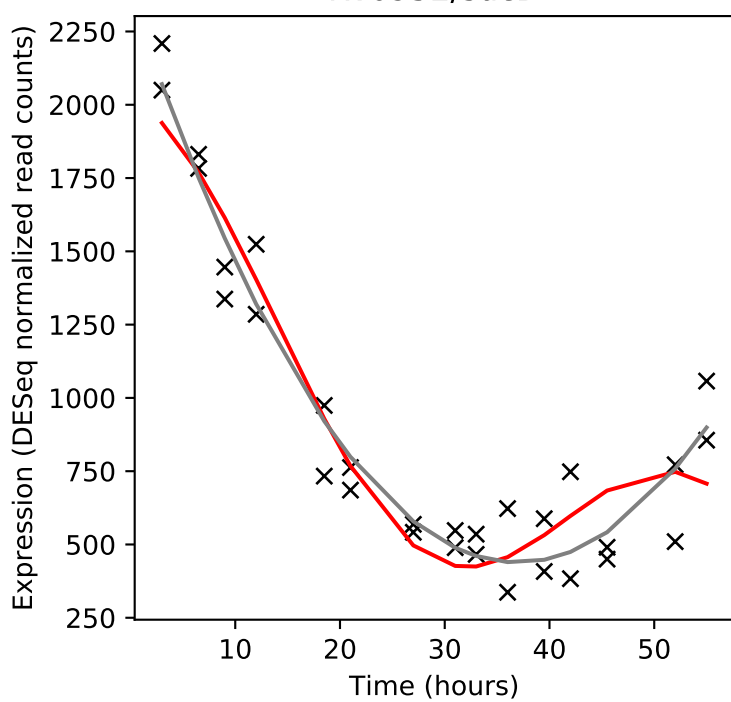
Rv0950c/-



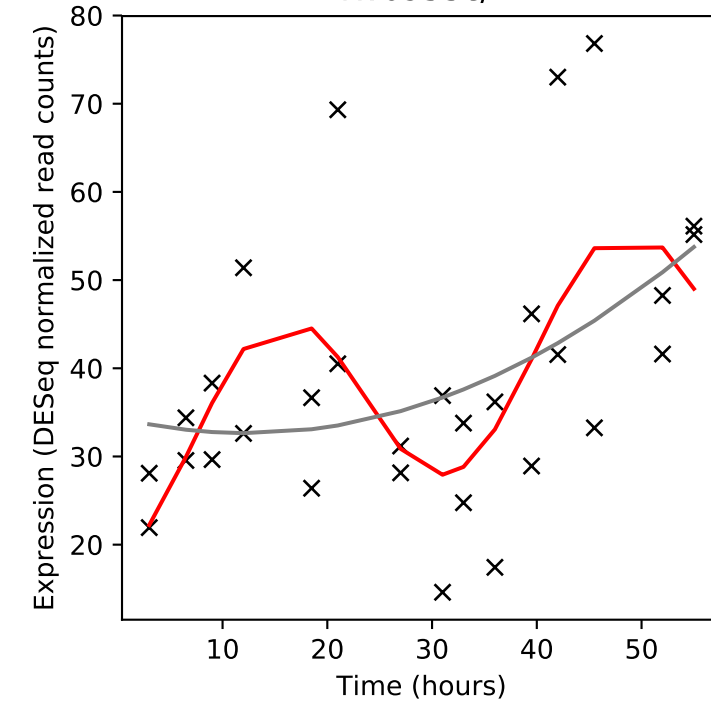
Rv0951/sucC



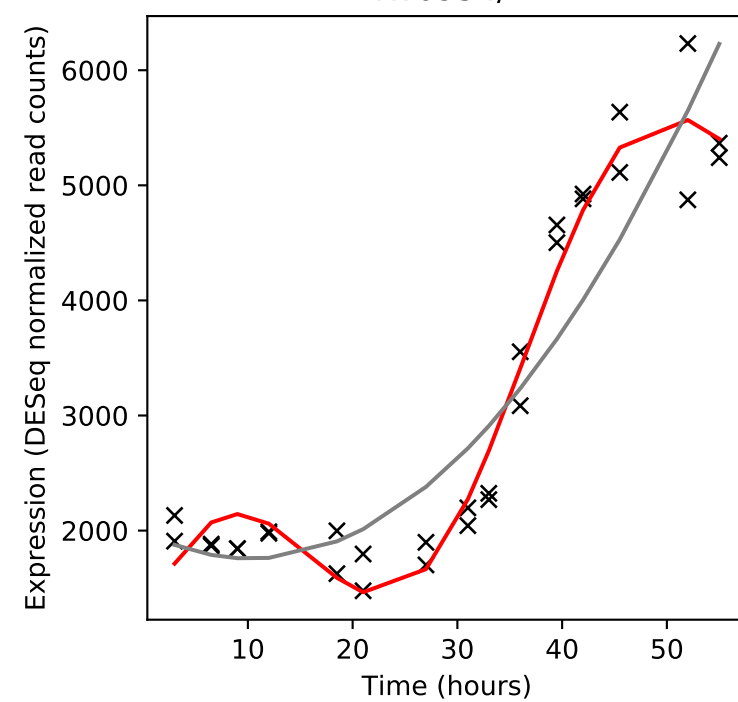
Rv0952/sucD



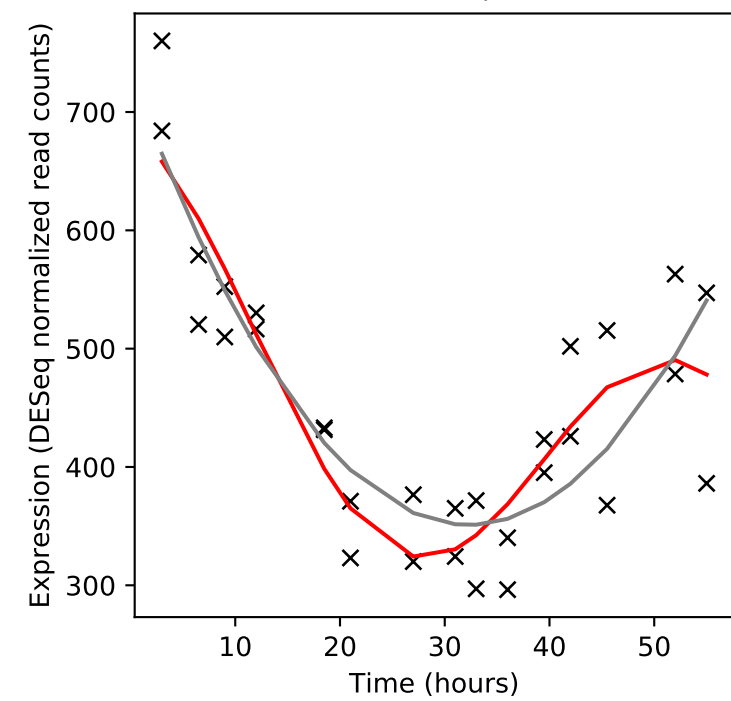
Rv0953c/-



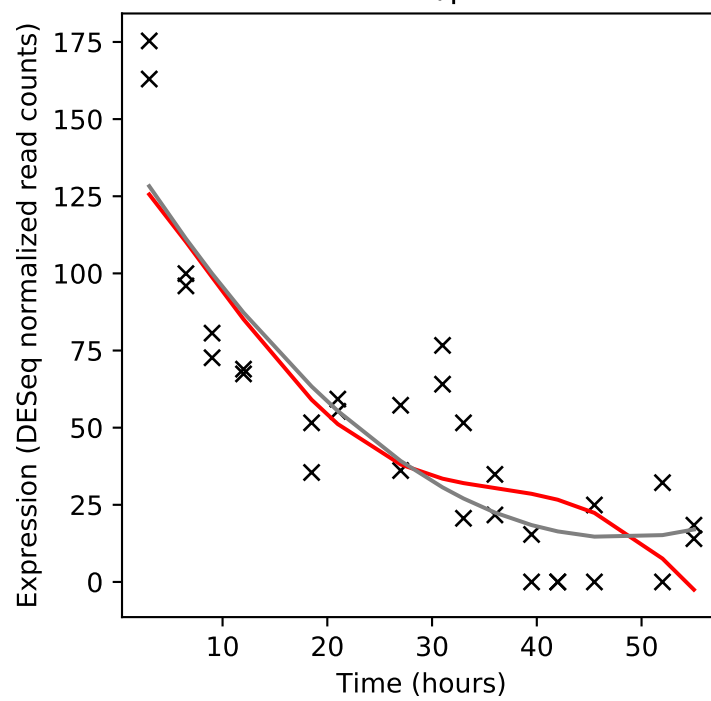
Rv0954/-



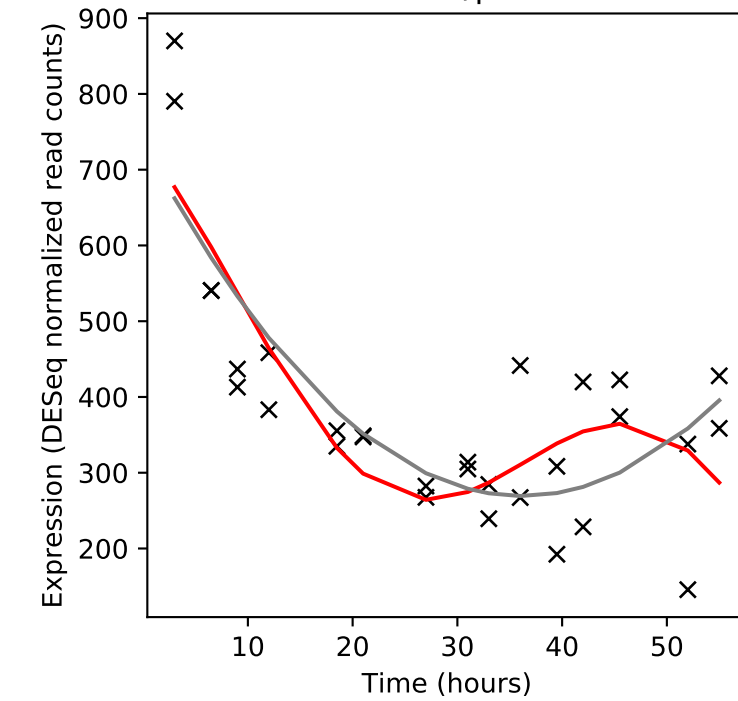
Rv0955/-



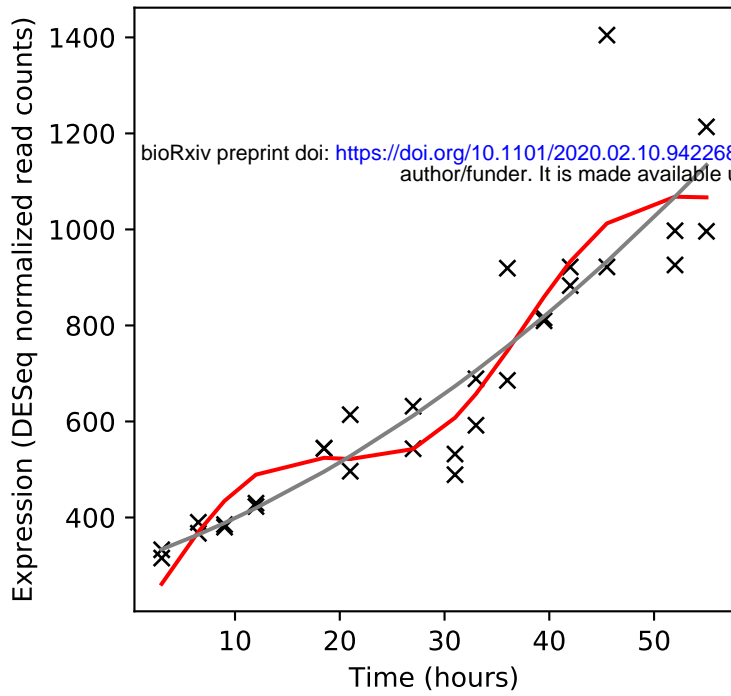
Rv0956/purN



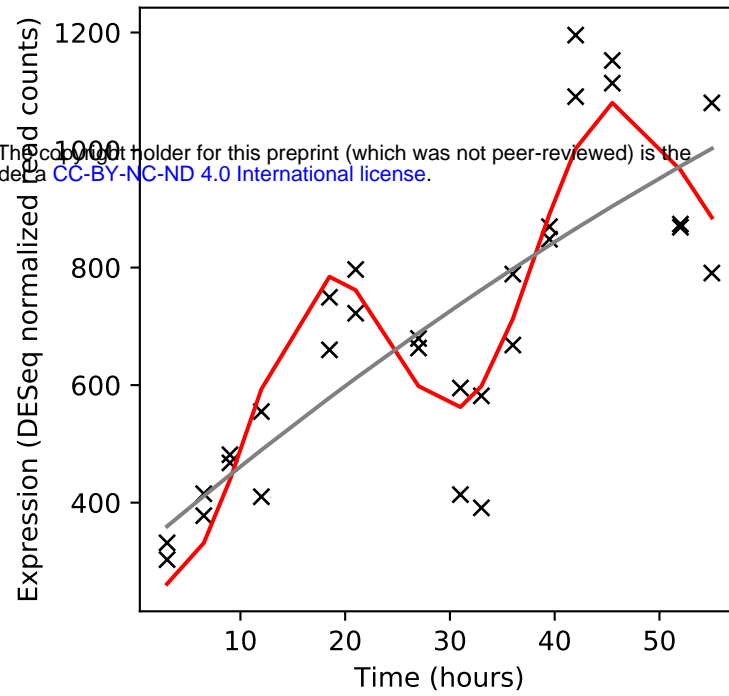
Rv0957/purH



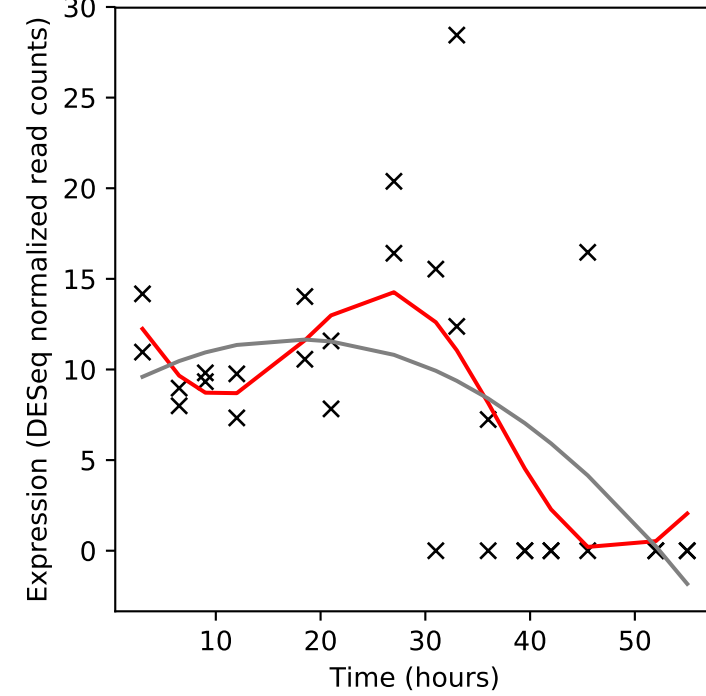
Rv0958/-



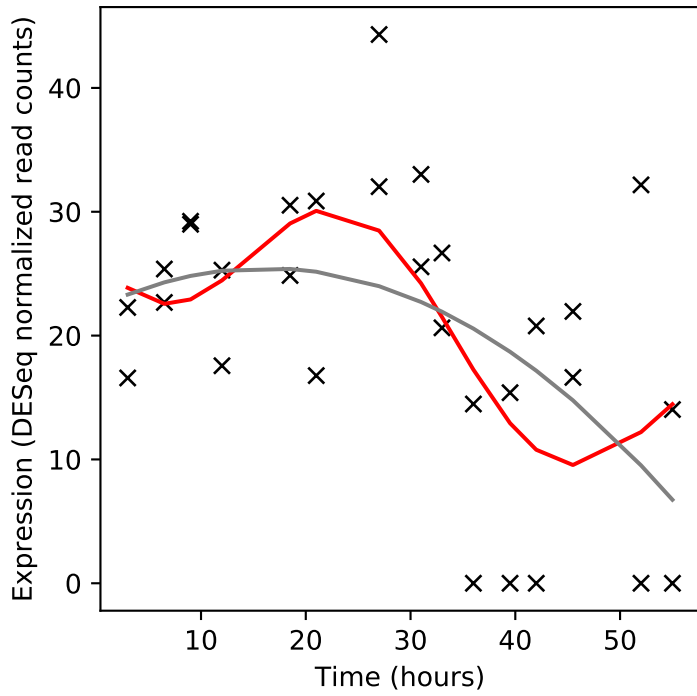
Rv0959/-



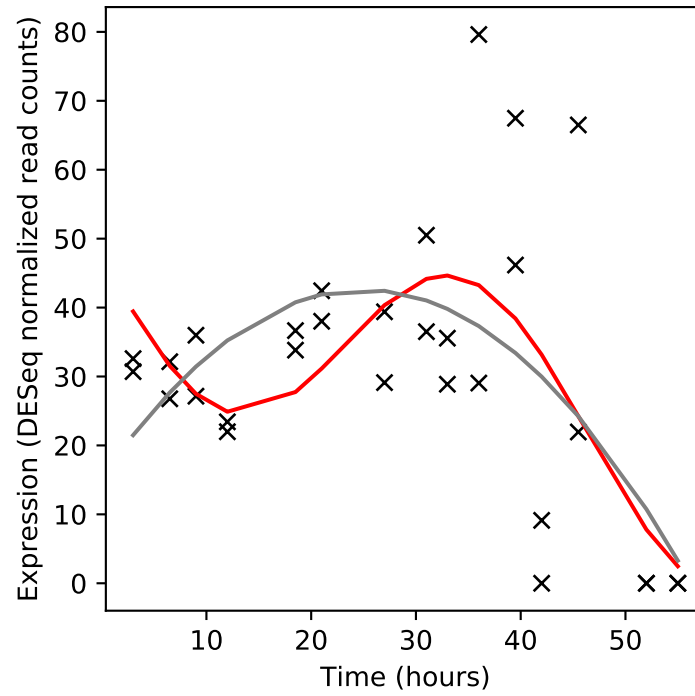
Rv0959A/vapB9



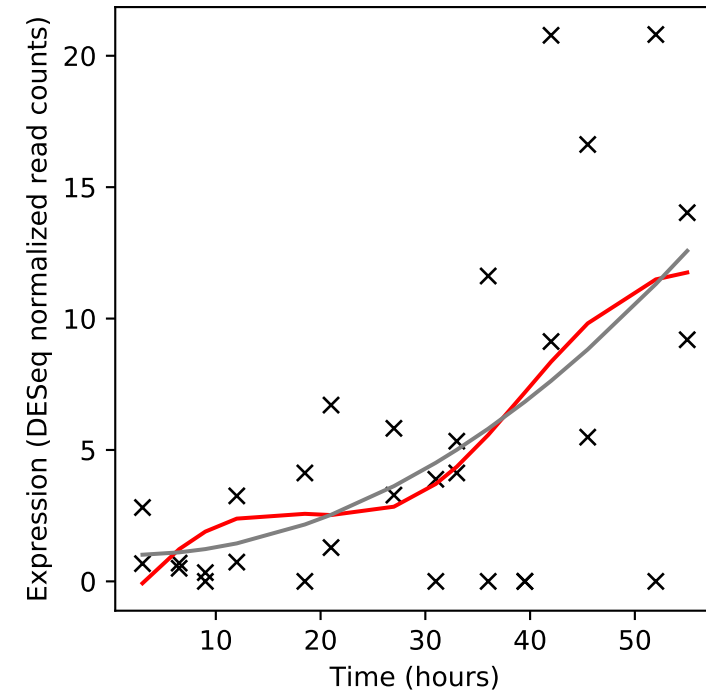
Rv0960/vapC9



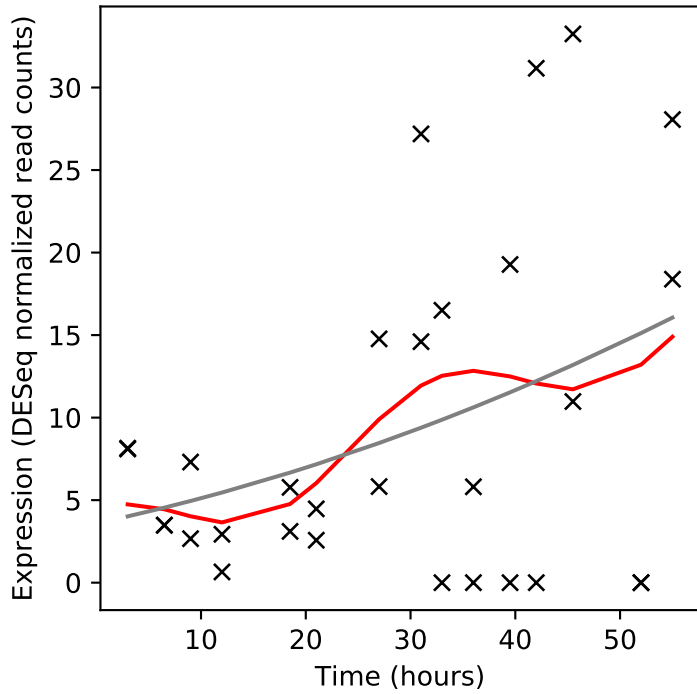
Rv0961/-



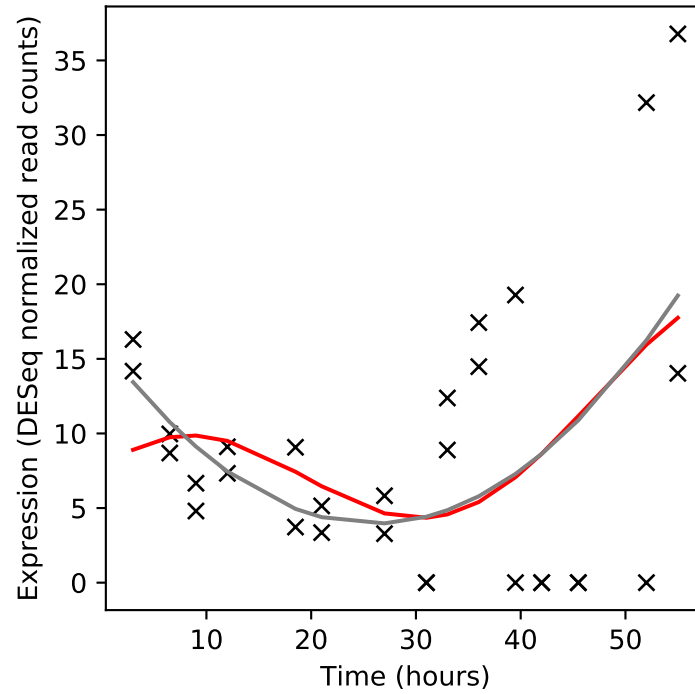
Rv0962c/lprP



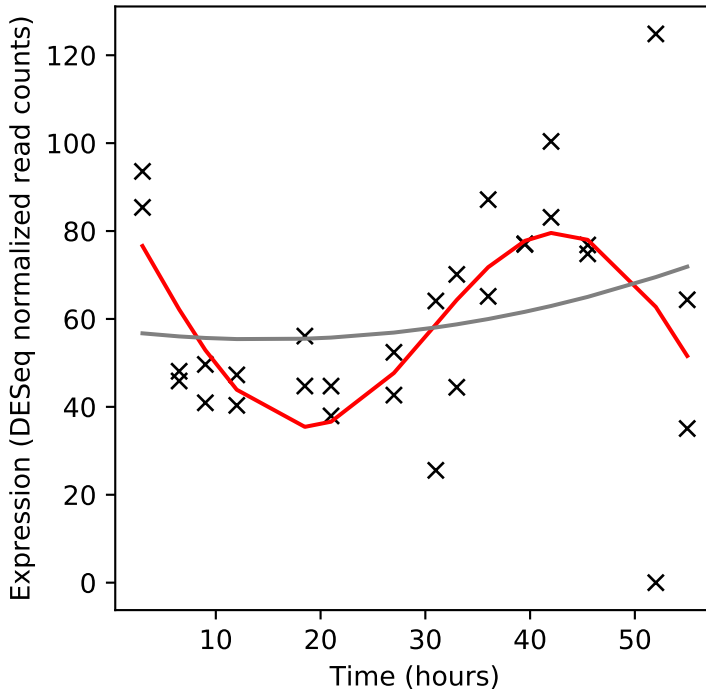
Rv0963c/-



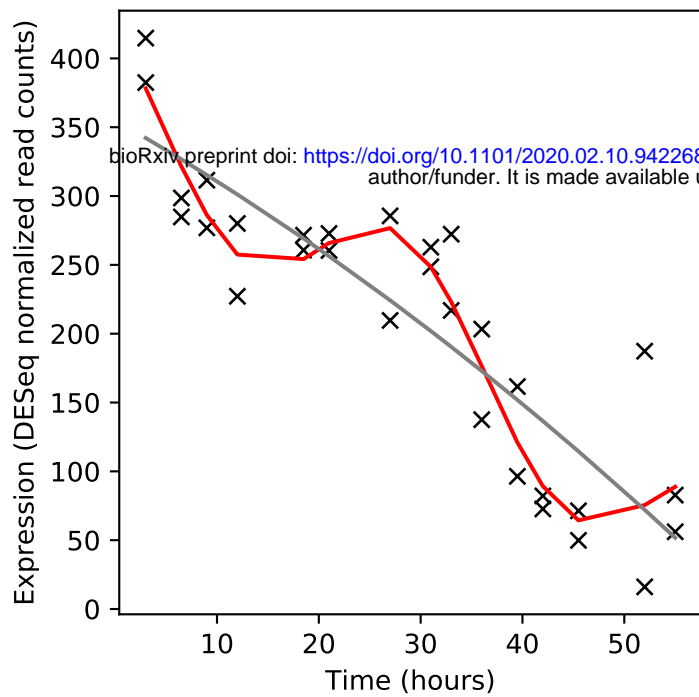
Rv0964c/-



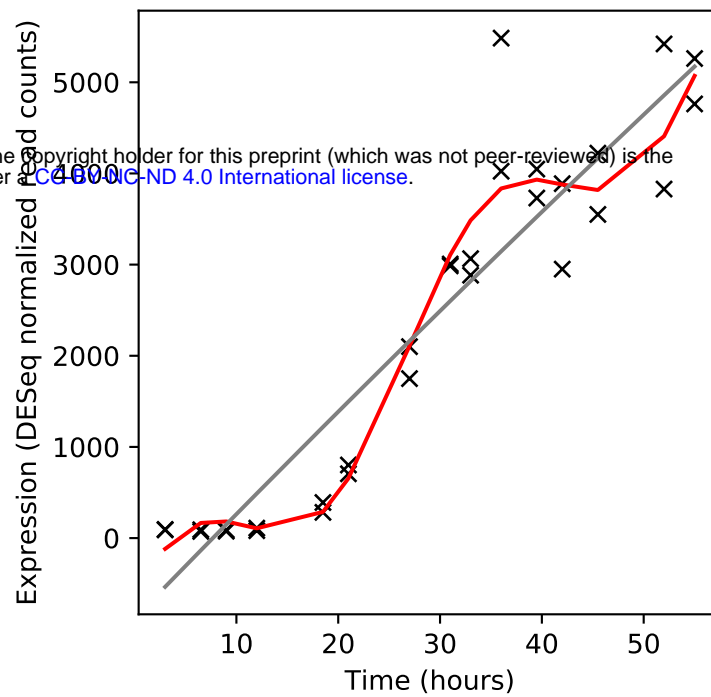
Rv0965c/-



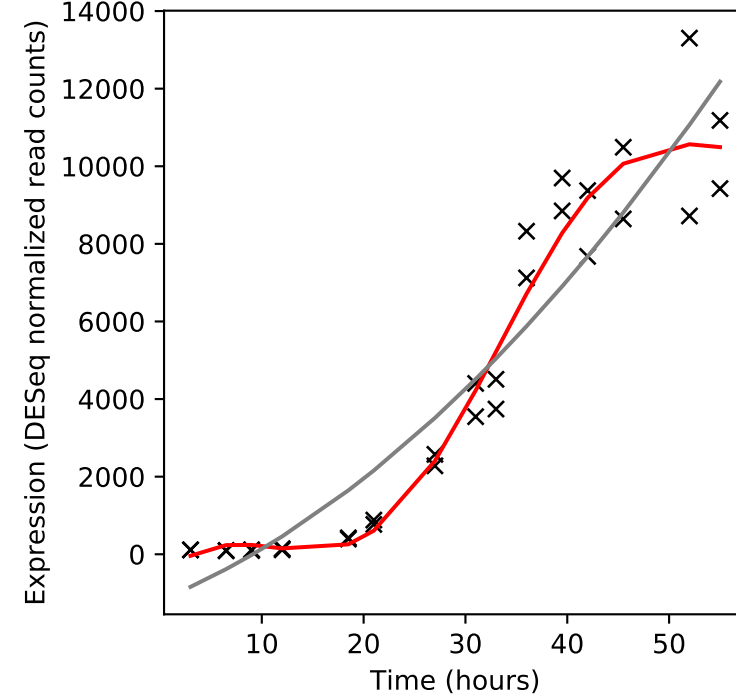
Rv0966c/-



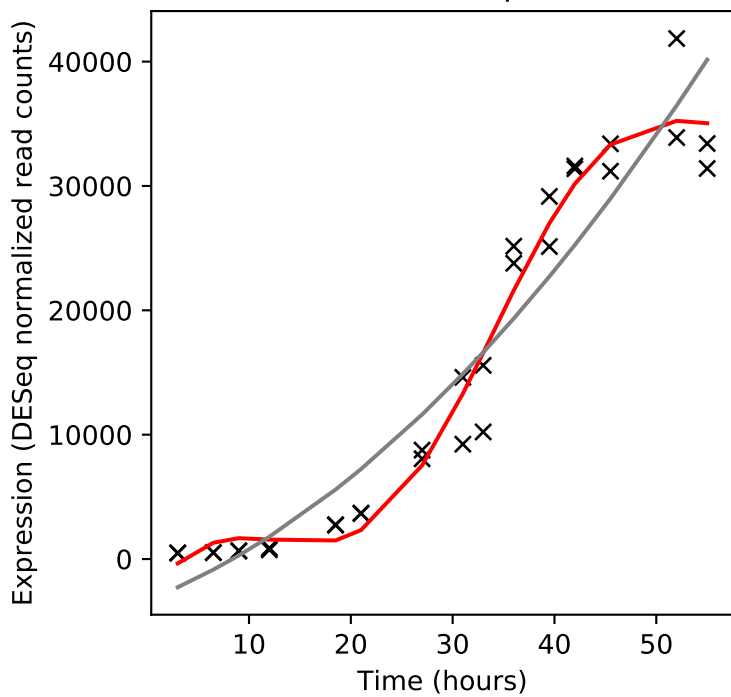
Rv0967/csoR



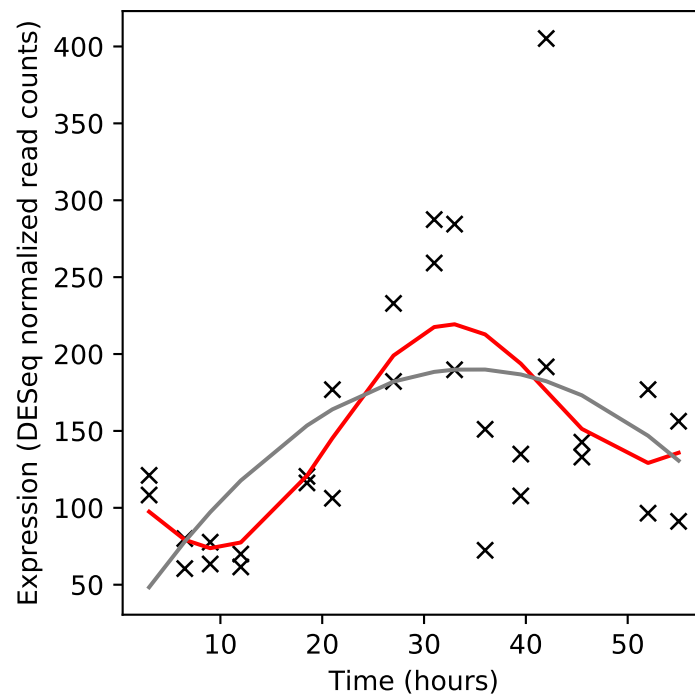
Rv0968/-



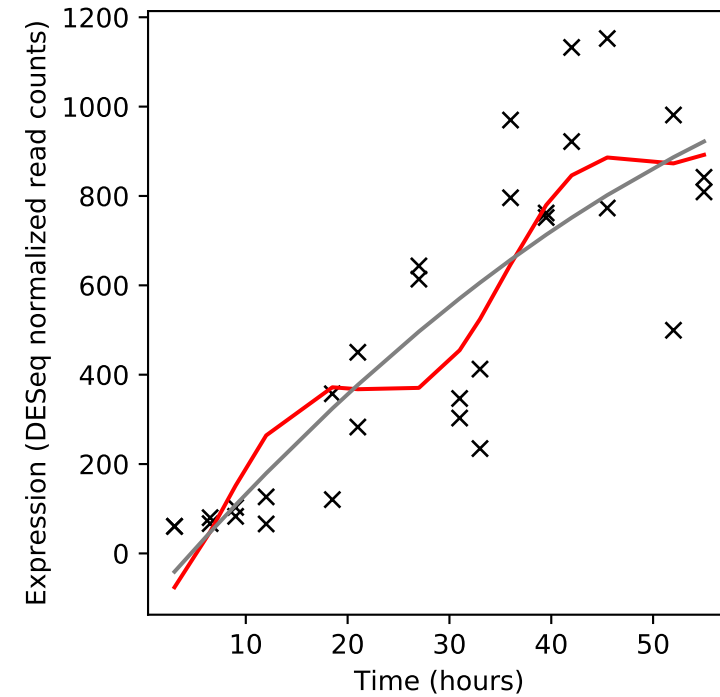
Rv0969/ctpV



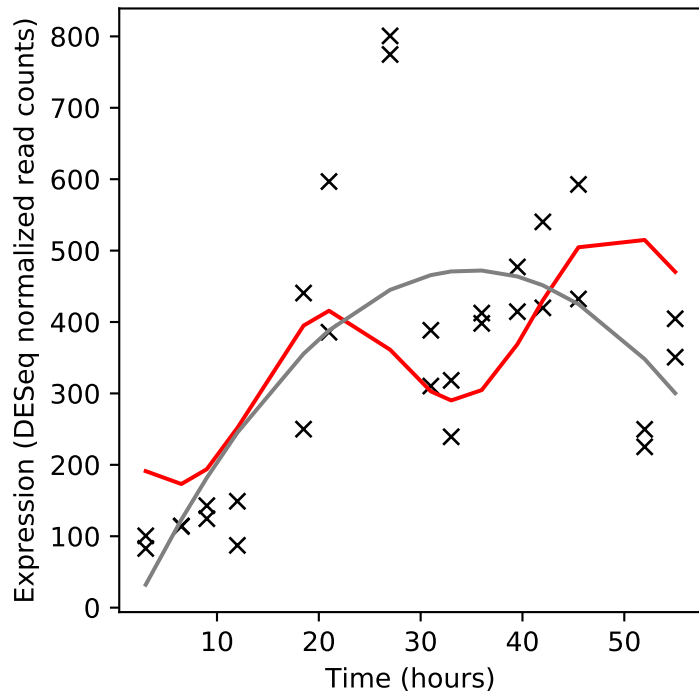
Rv0970/-



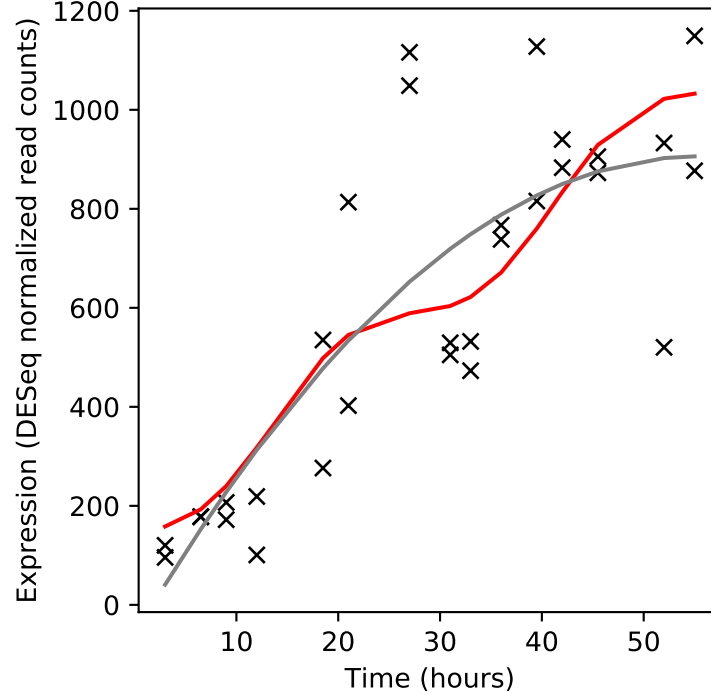
Rv0971c/echA7



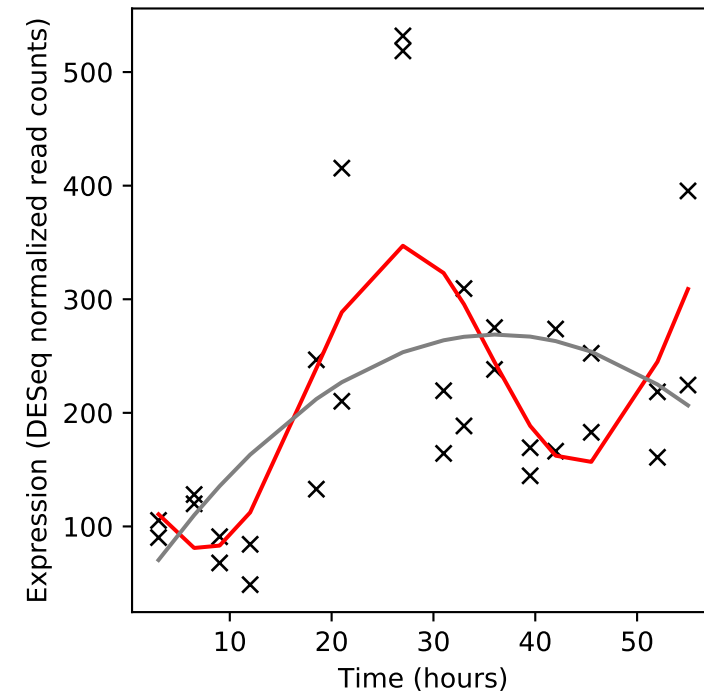
Rv0972c/fadE12



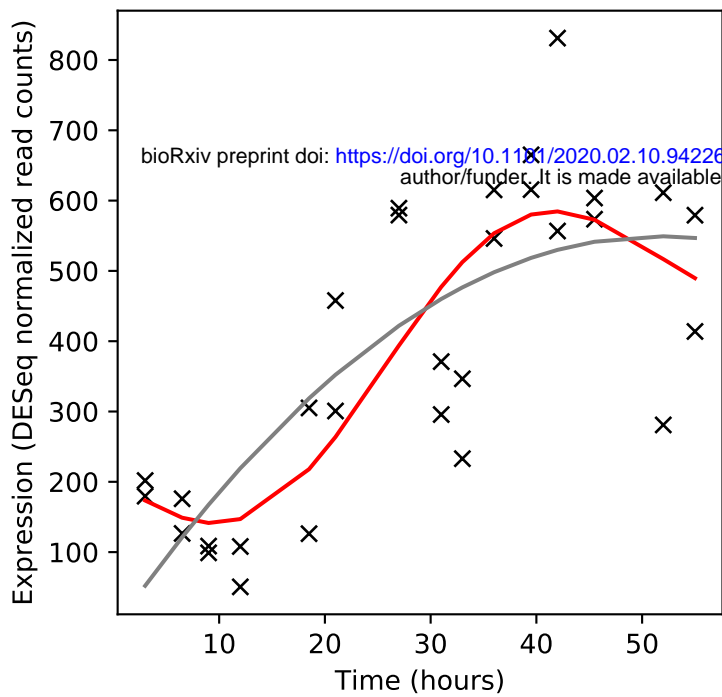
Rv0973c/accA2



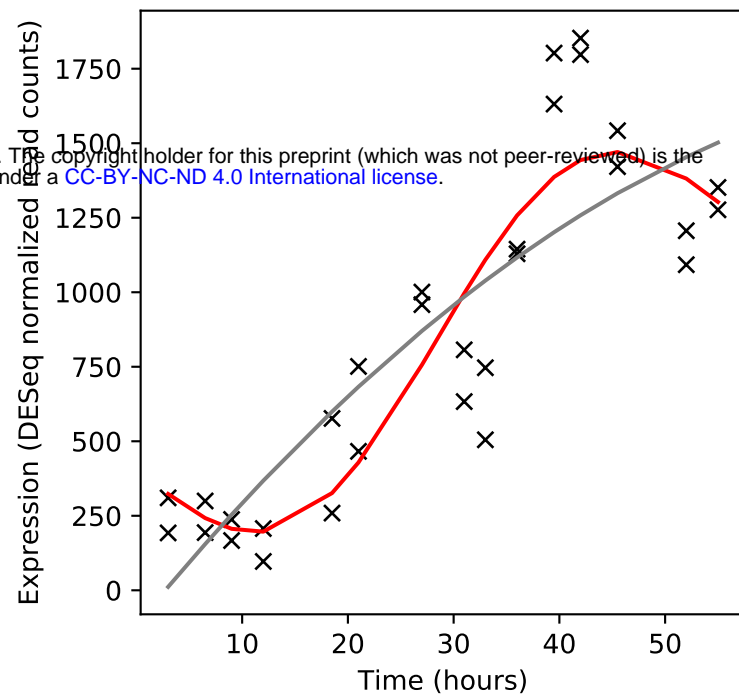
Rv0974c/accD2



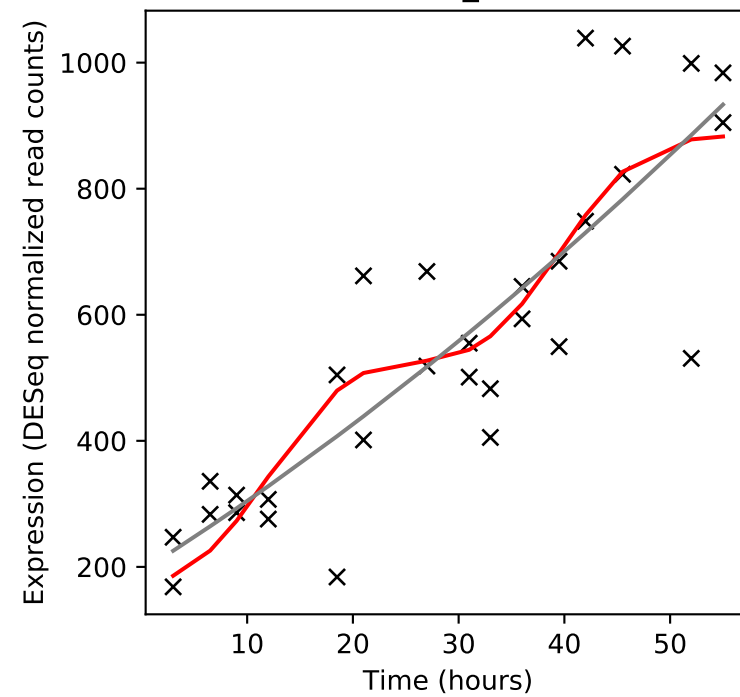
Rv0975c/fadE13



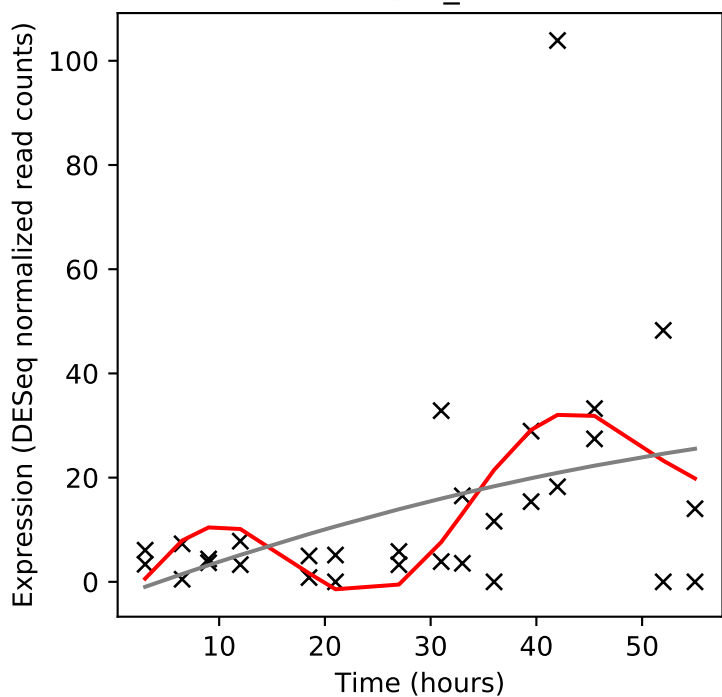
Rv0976c/-



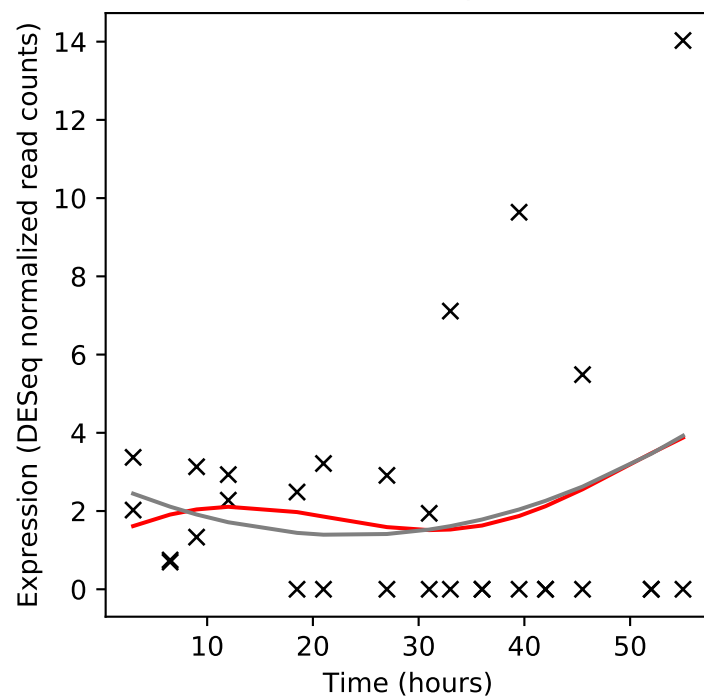
Rv0977/PE_PGRS16



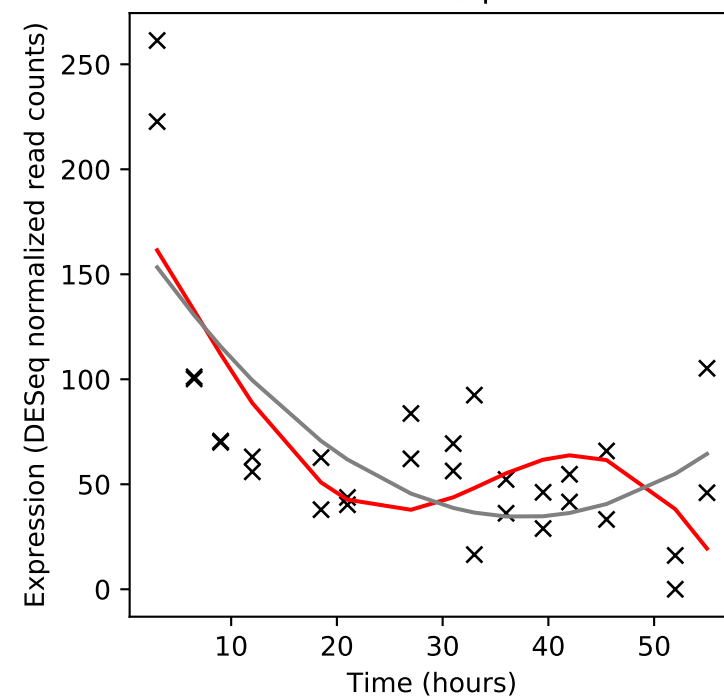
Rv0978c/PE_PGRS17



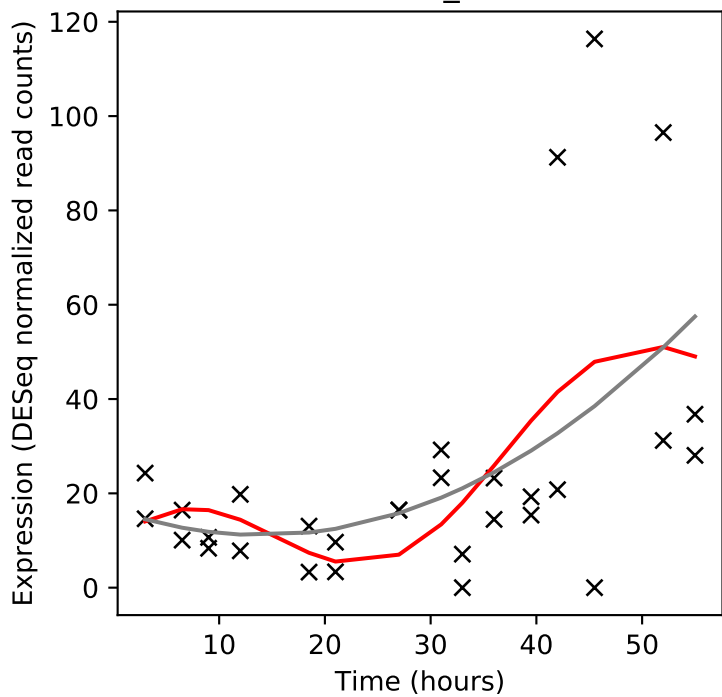
Rv0979c/-



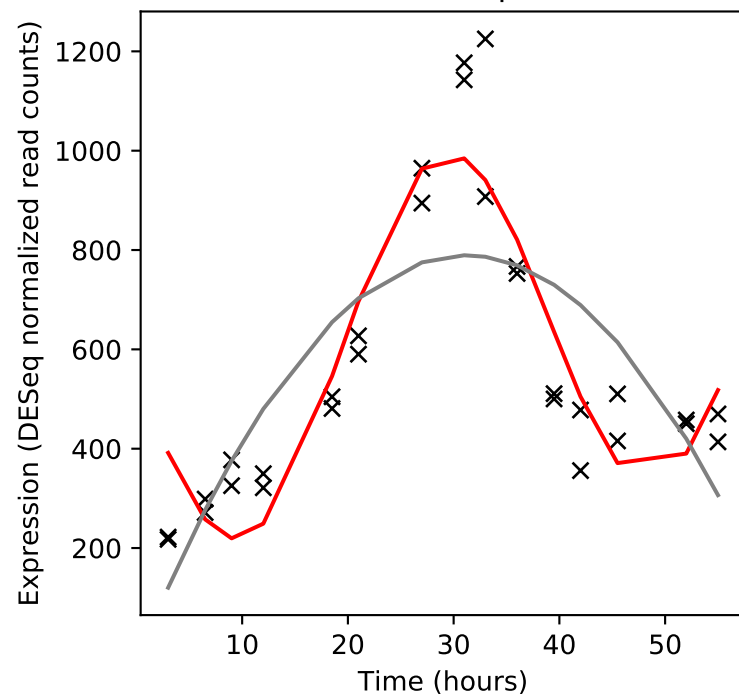
Rv0979A/rpmF



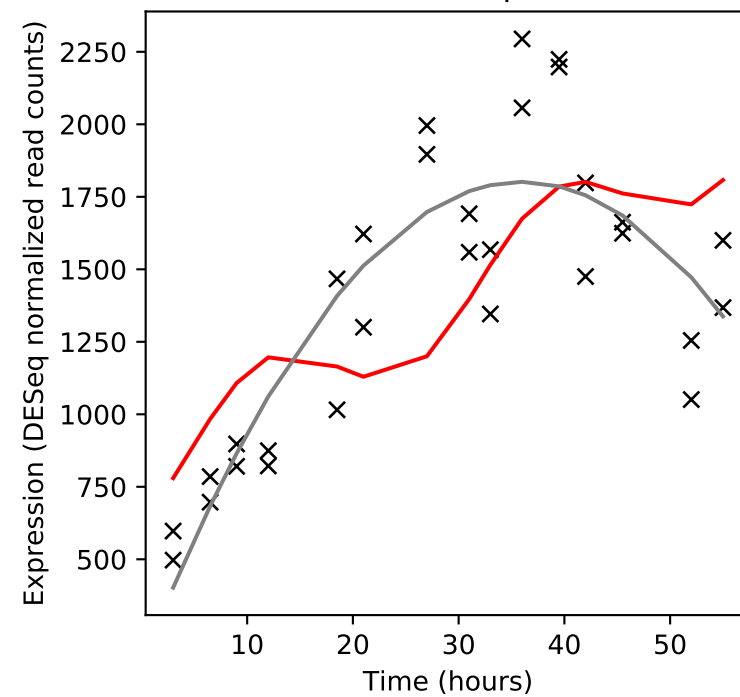
Rv0980c/PE_PGRS18



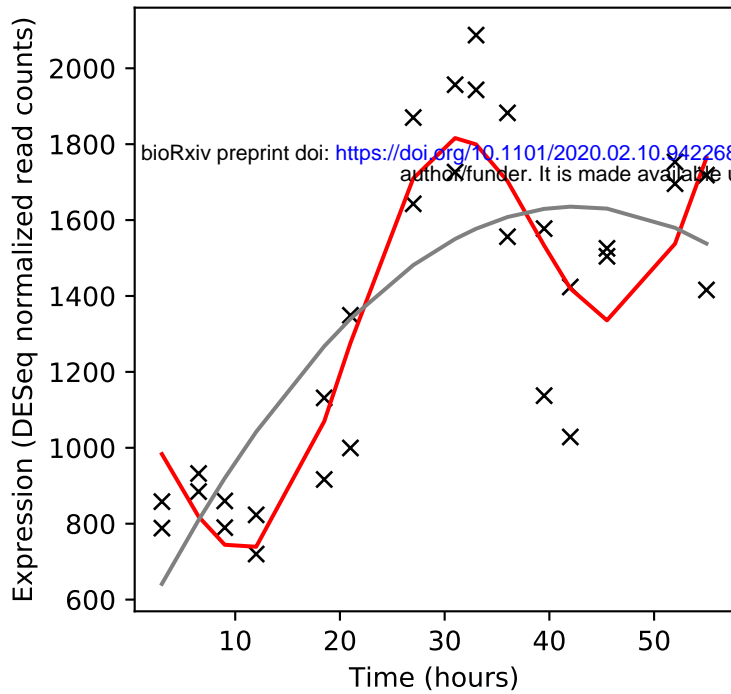
Rv0981/mprA



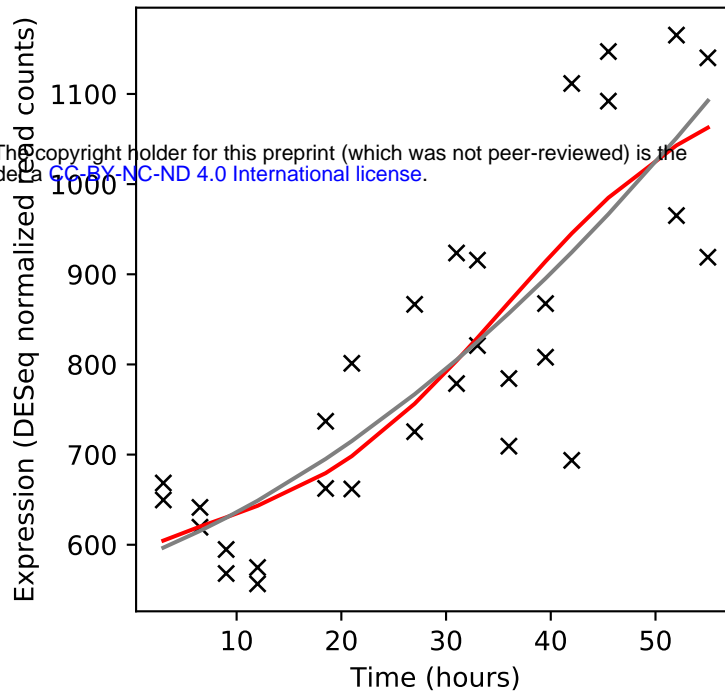
Rv0982/mprB



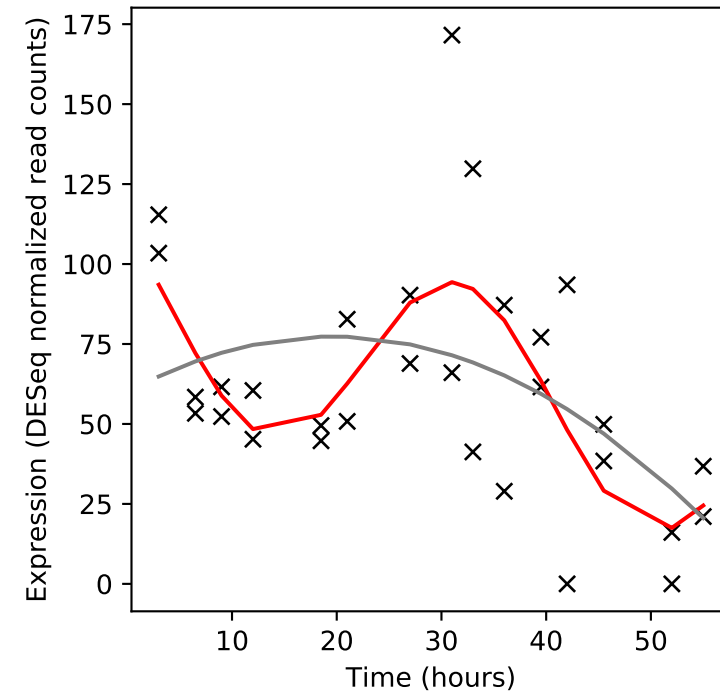
Rv0983/pepD



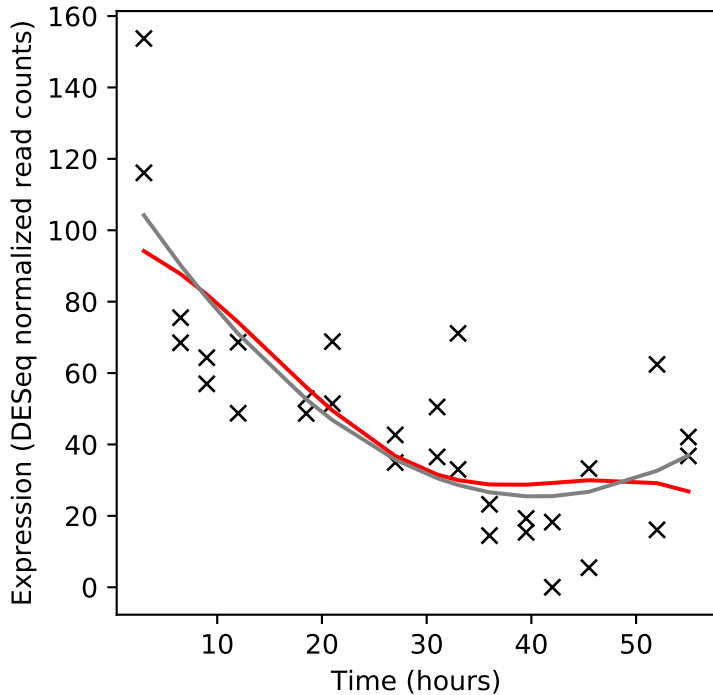
Rv0984/moaB2



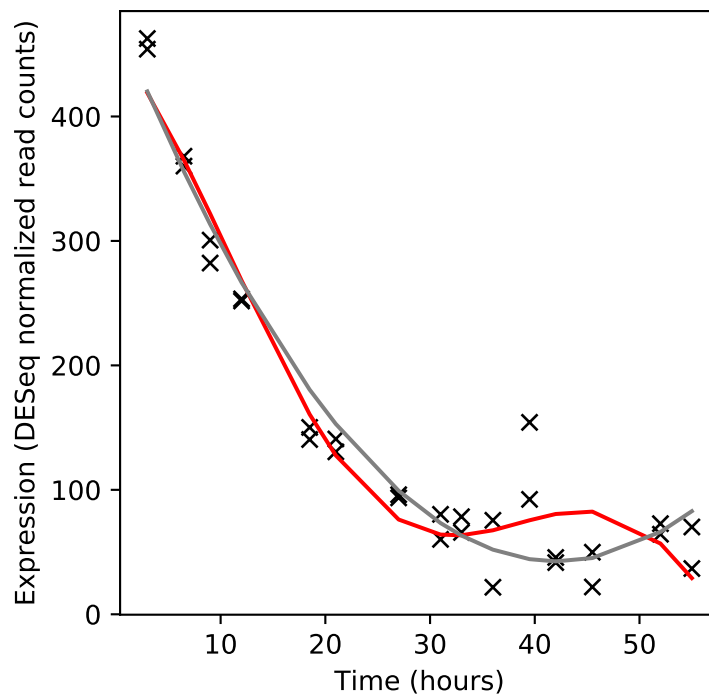
Rv0985c/mscL



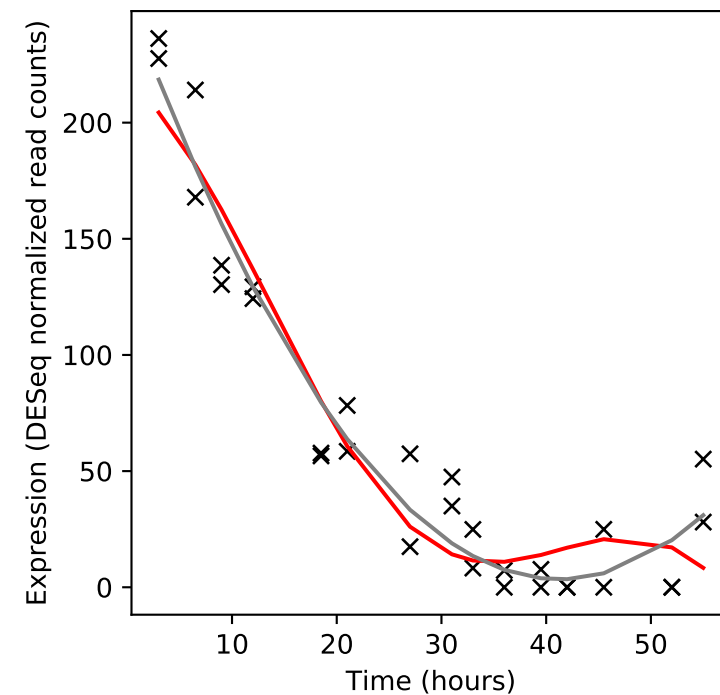
Rv0986/-



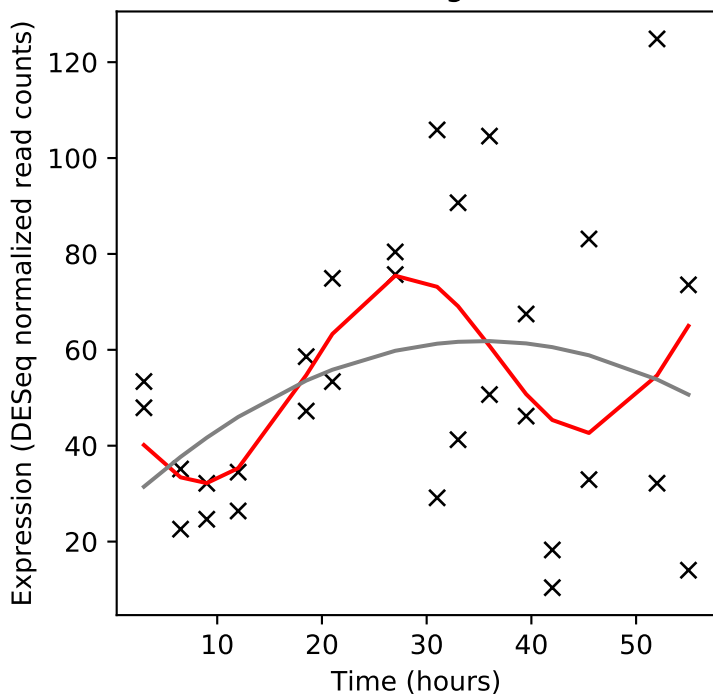
Rv0987/-



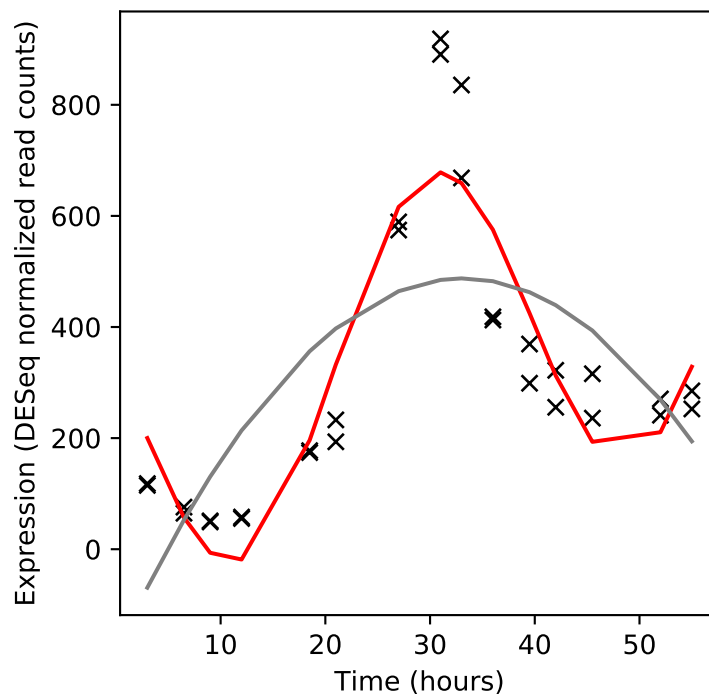
Rv0988/-



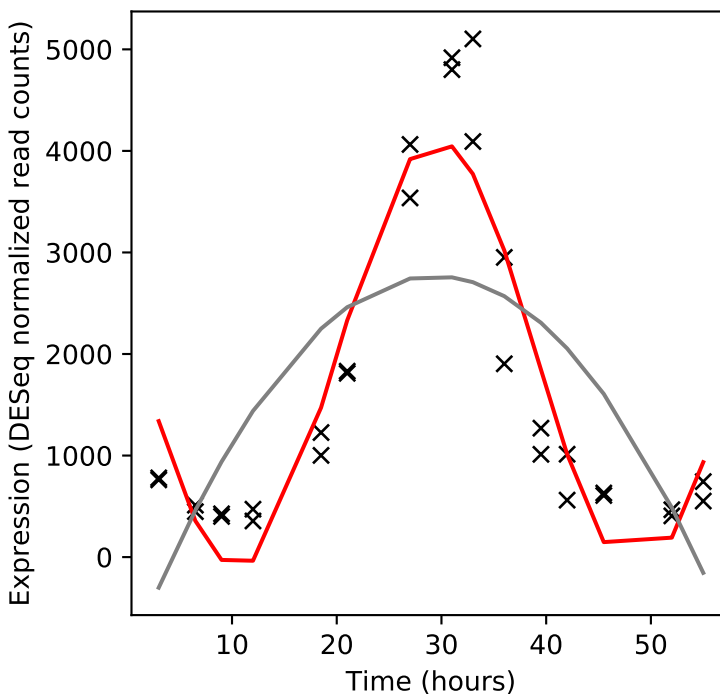
Rv0989c/grcC2



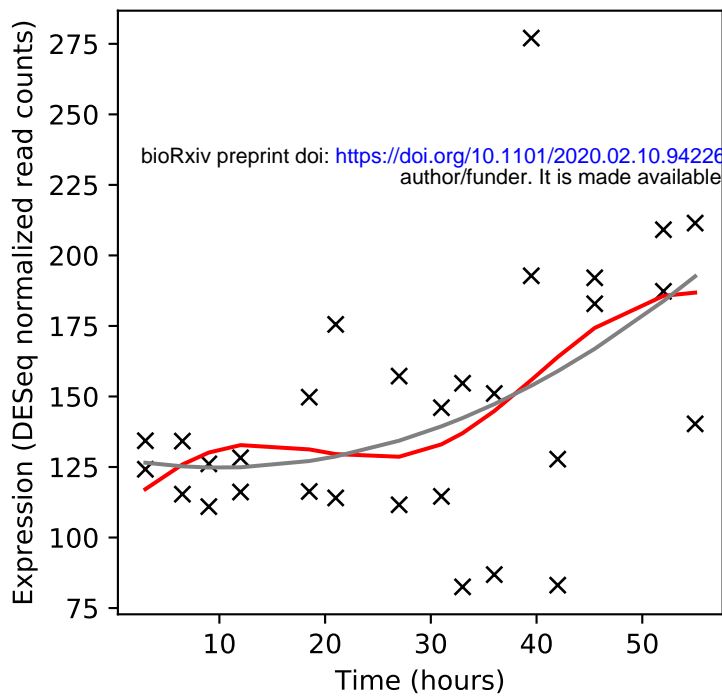
Rv0990c/-



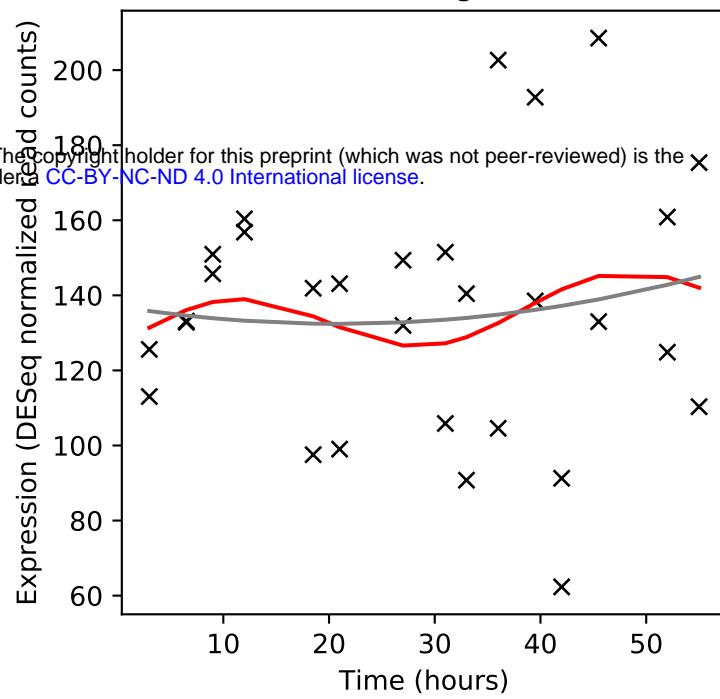
Rv0991c/-



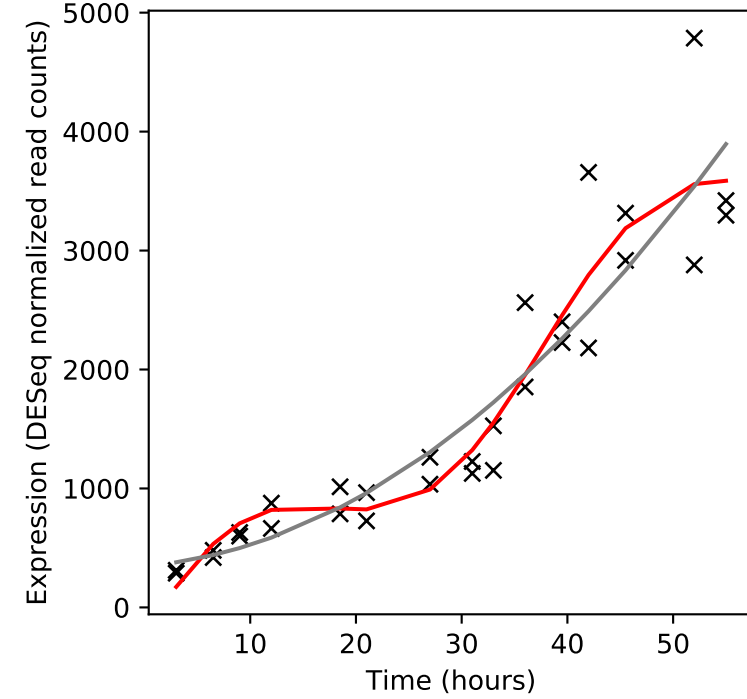
Rv0992c/-



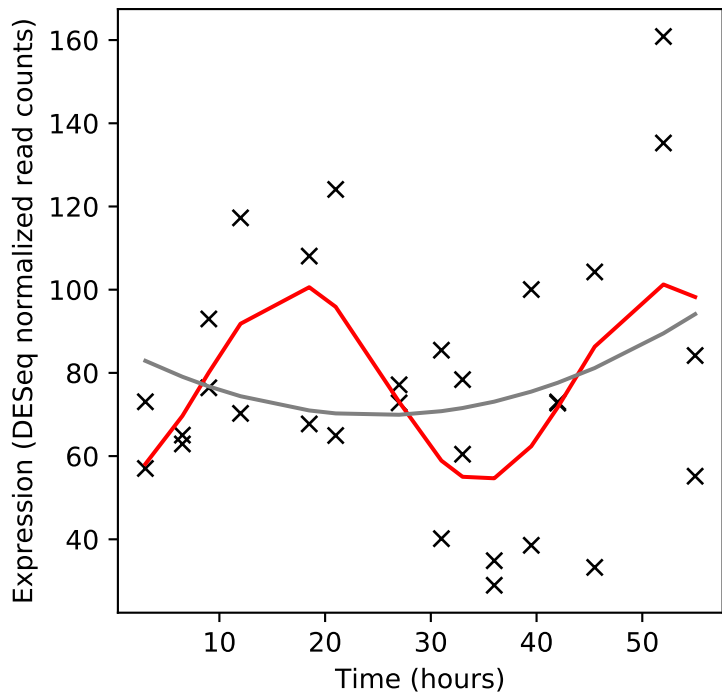
Rv0993/galU



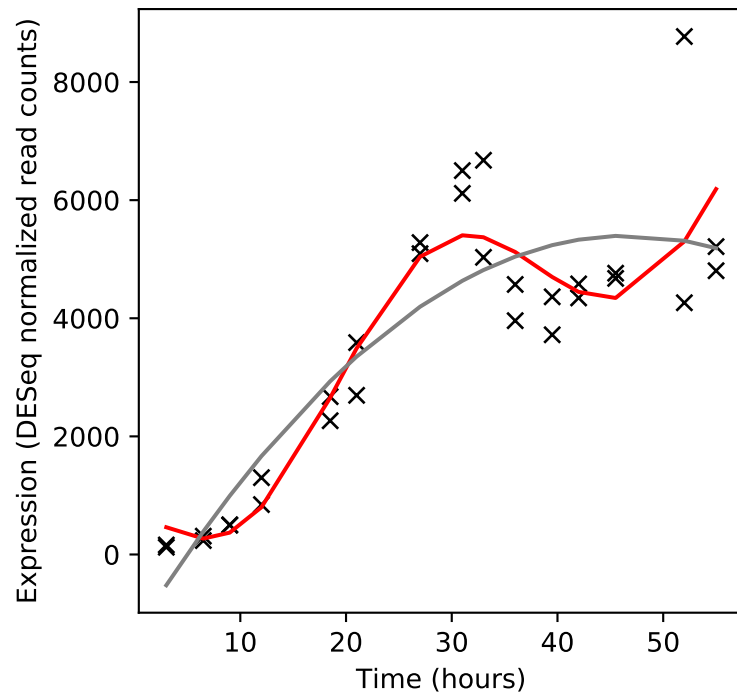
Rv0994/moeA1



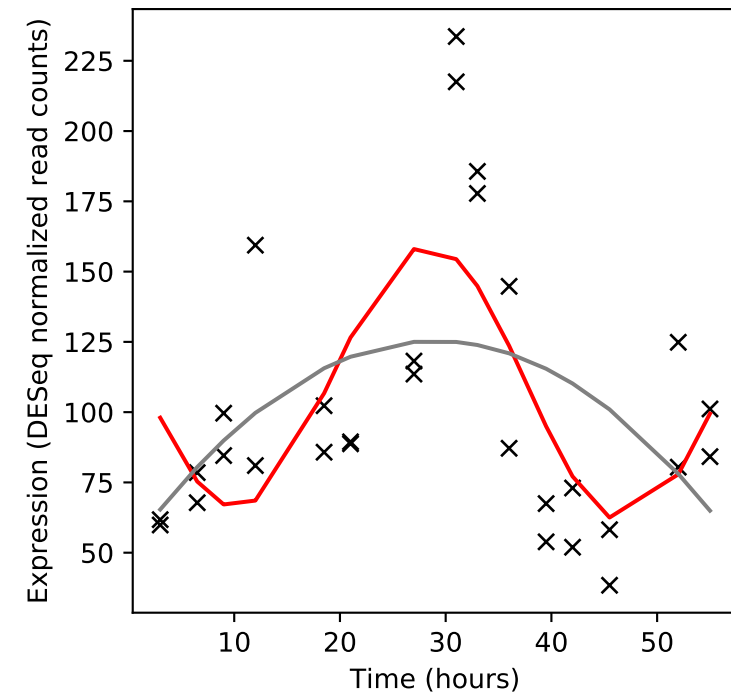
Rv0995/rimJ



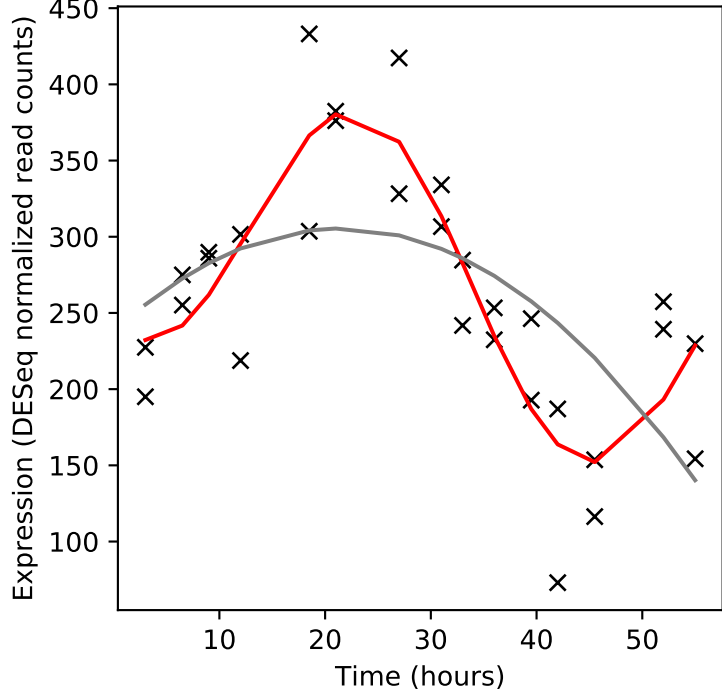
Rv0996/-



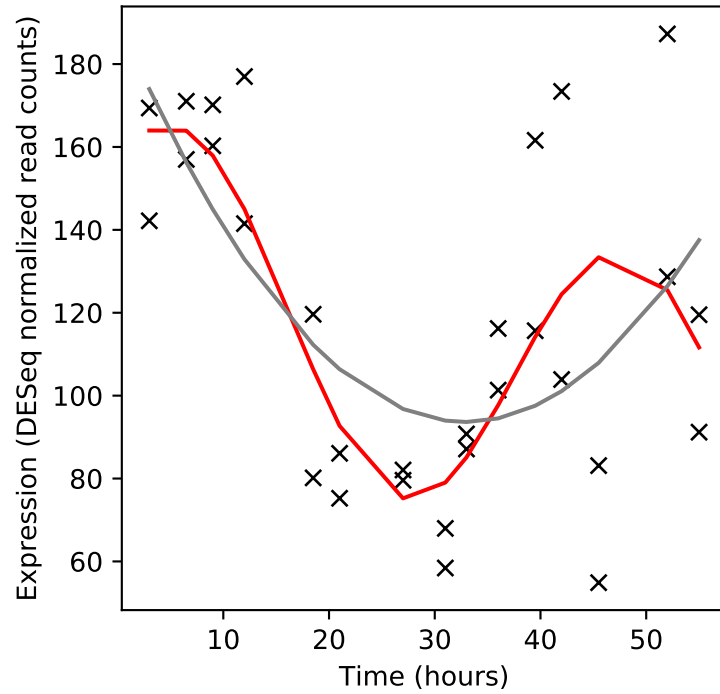
Rv0997/-



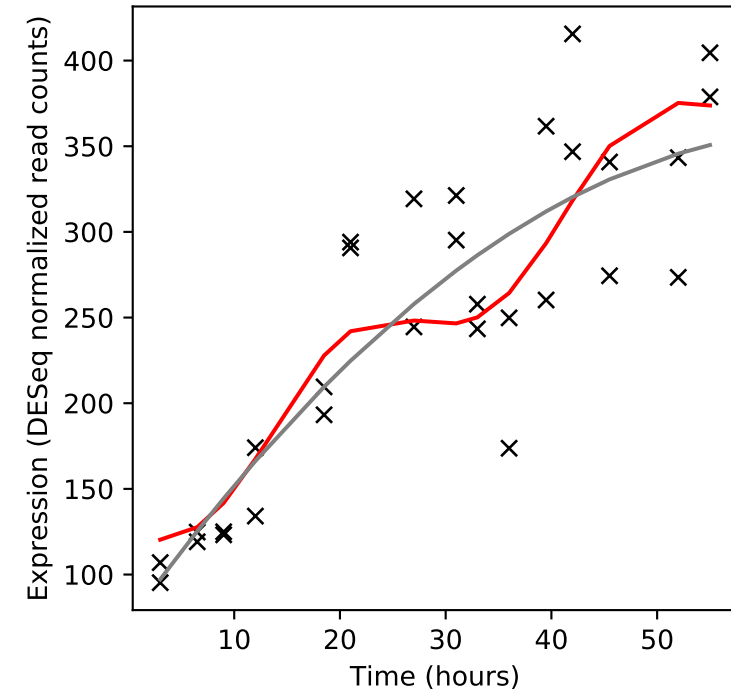
Rv0998/-



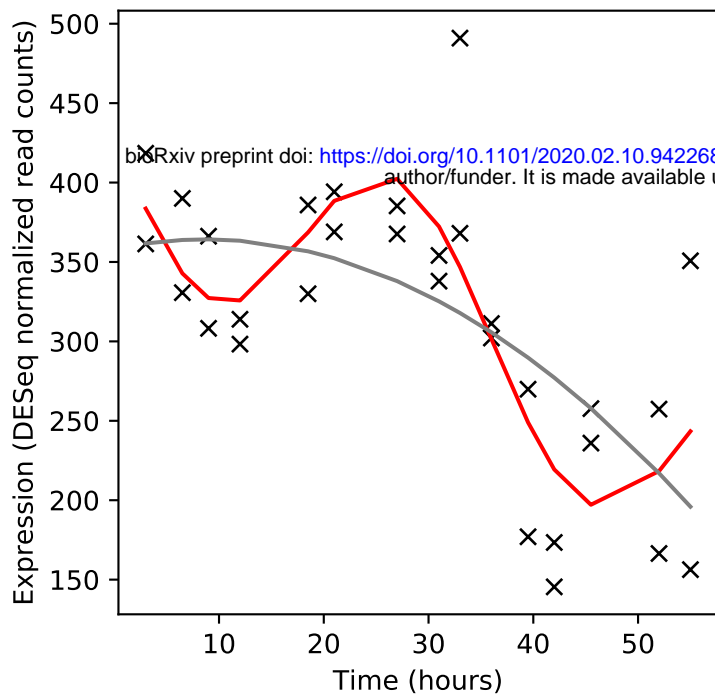
Rv0999/-



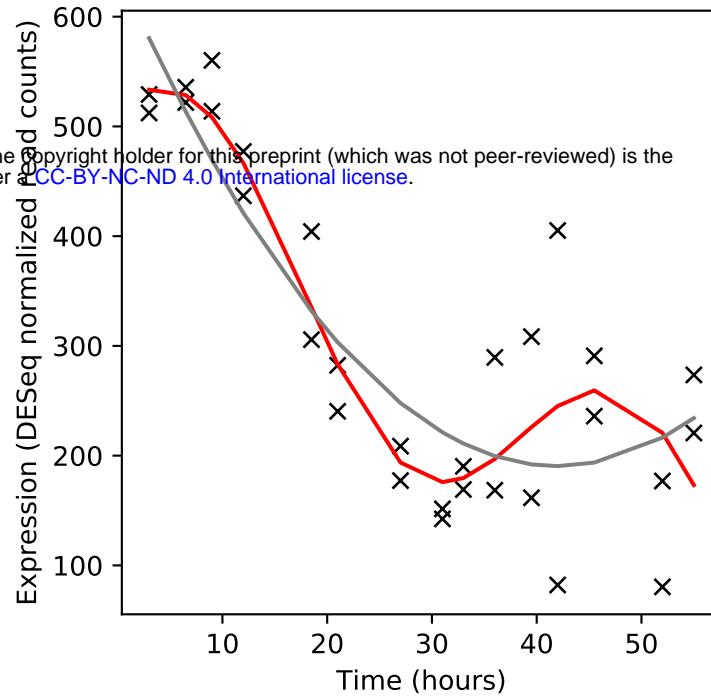
Rv1000c/-



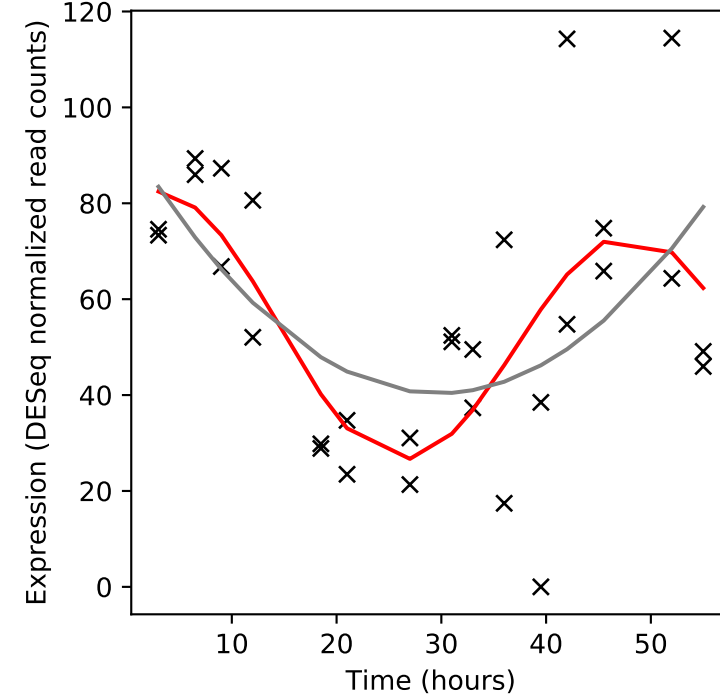
Rv1001/arcA



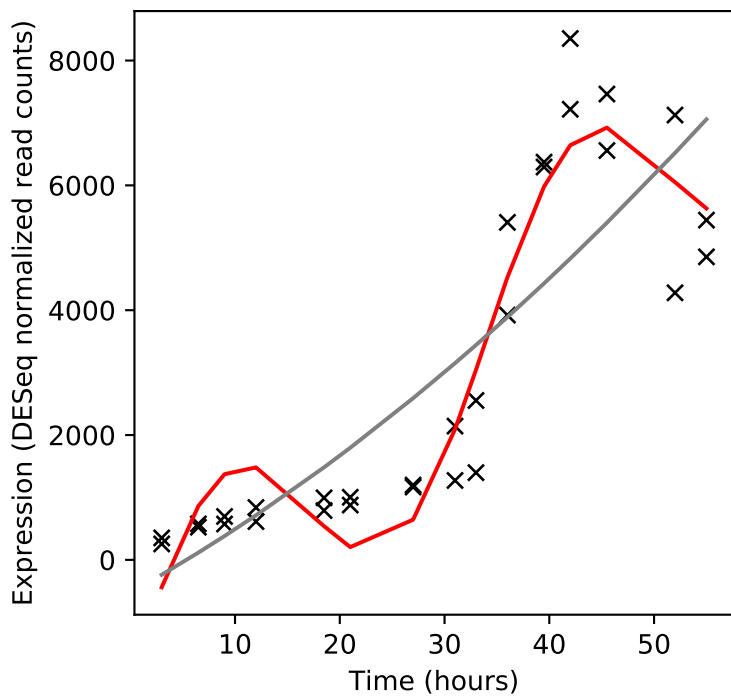
Rv1002c/-



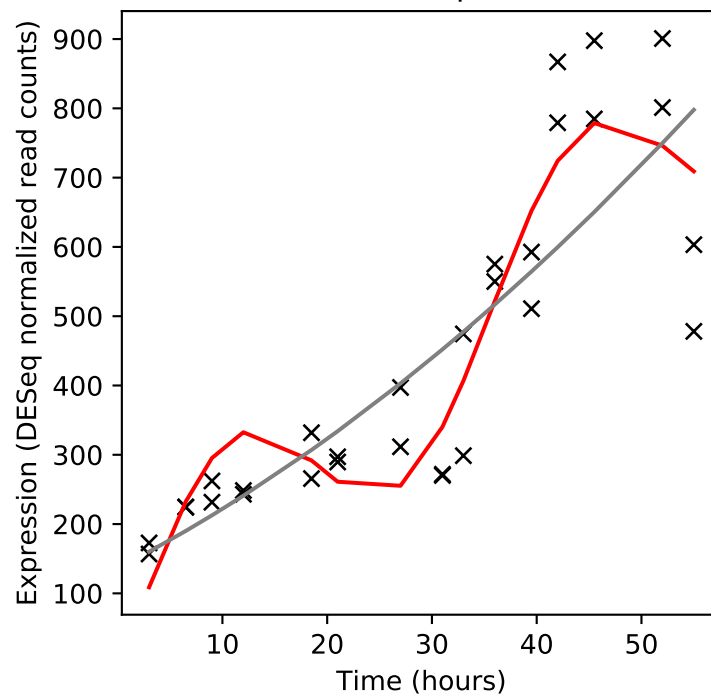
Rv1003/-



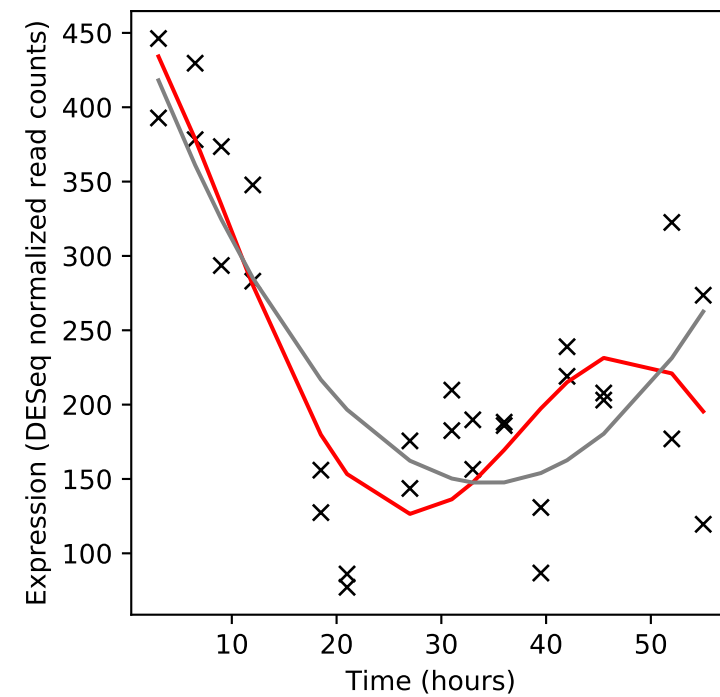
Rv1004c/-



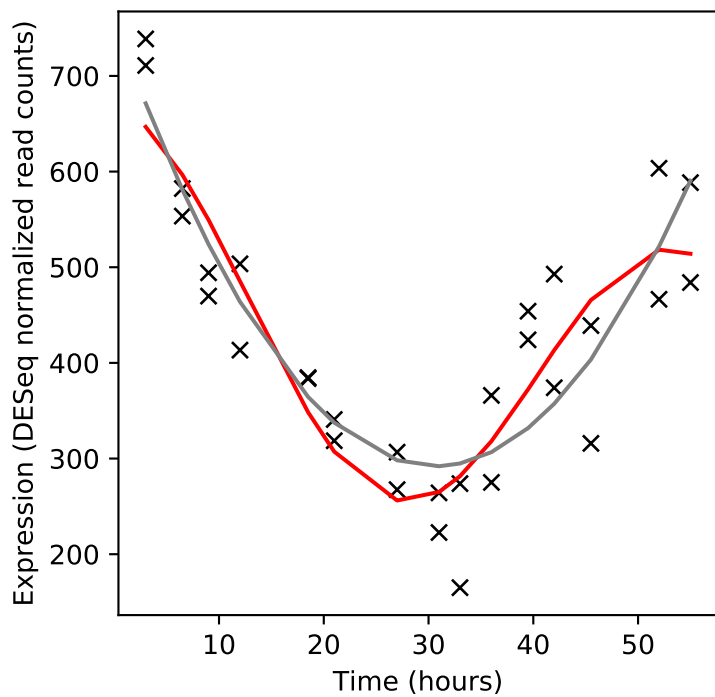
Rv1005c/pabB



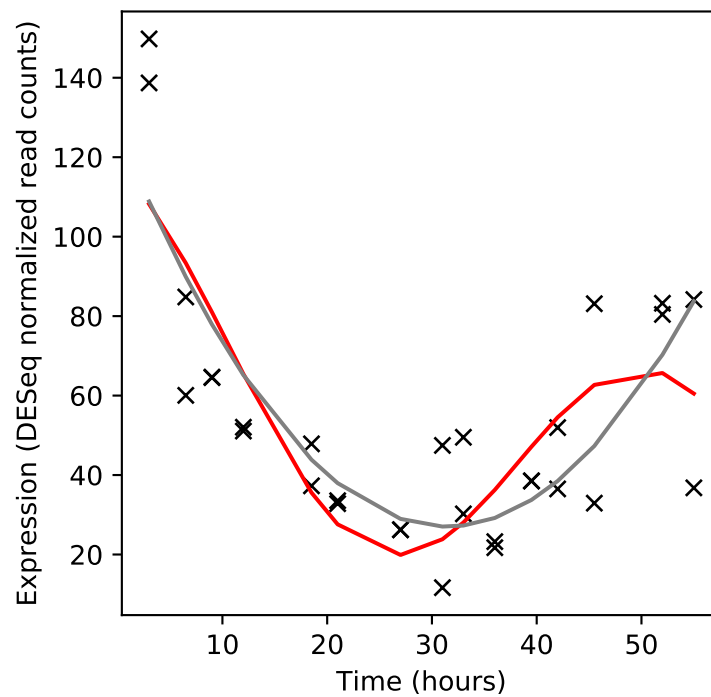
Rv1006/-



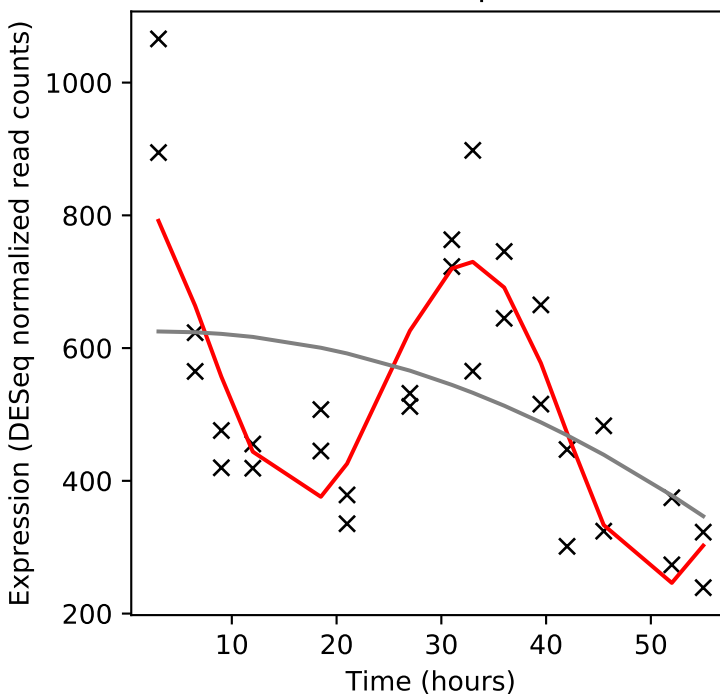
Rv1007c/metS



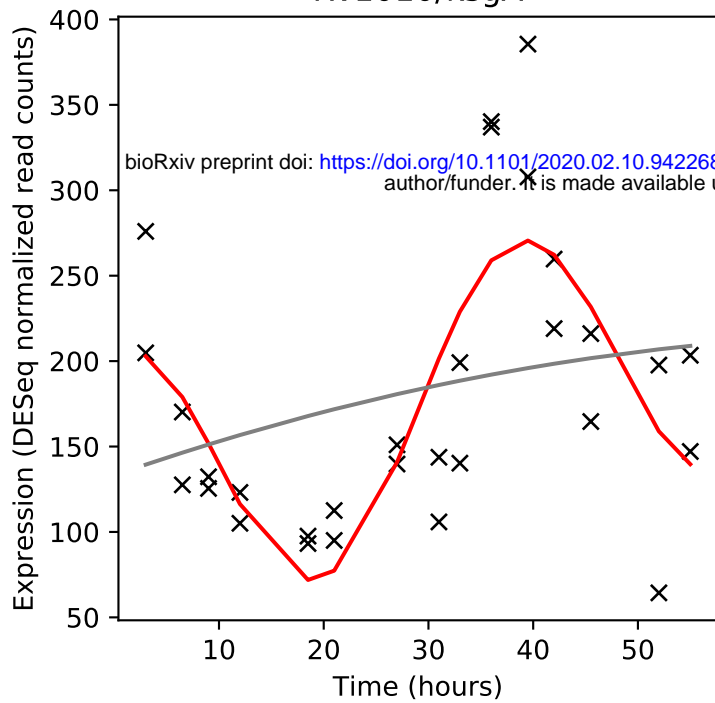
Rv1008/tatD



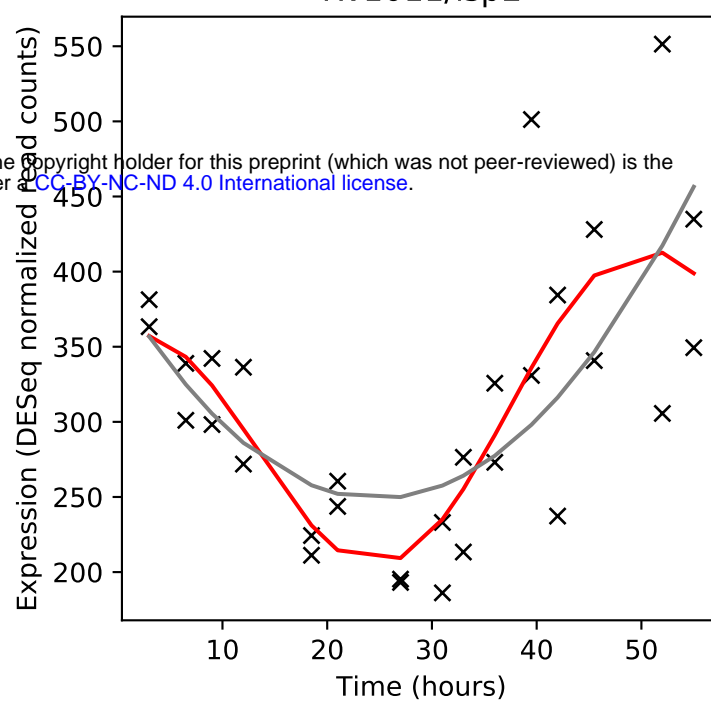
Rv1009/rpfB



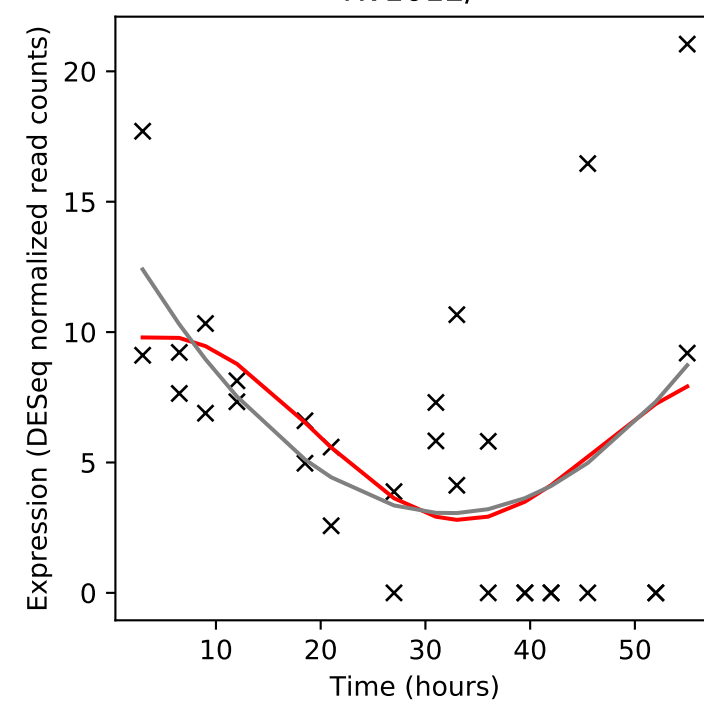
Rv1010/ksgA



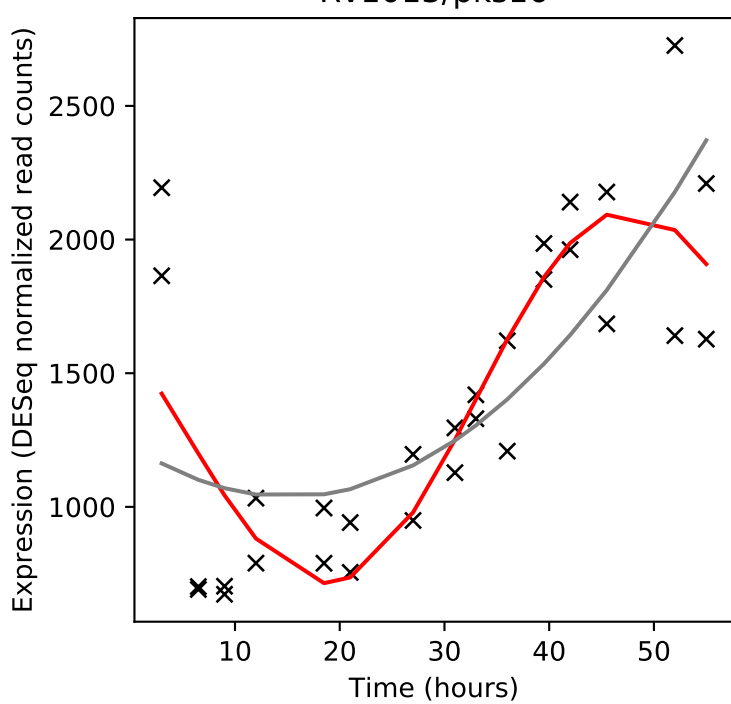
Rv1011/ispE



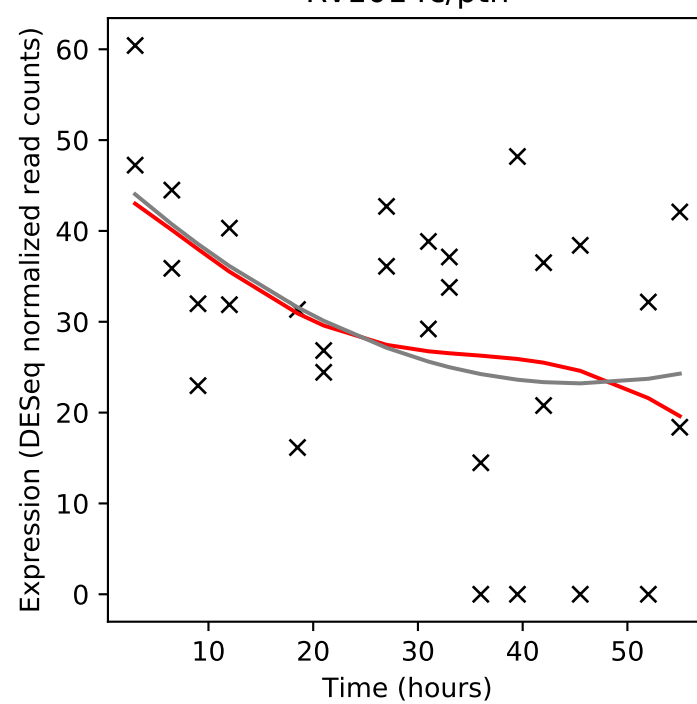
Rv1012/-



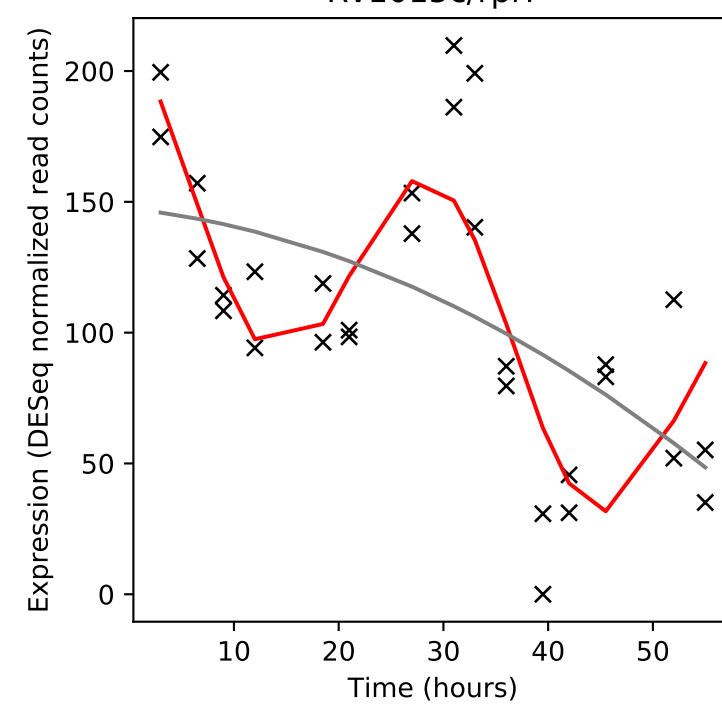
Rv1013/pks16



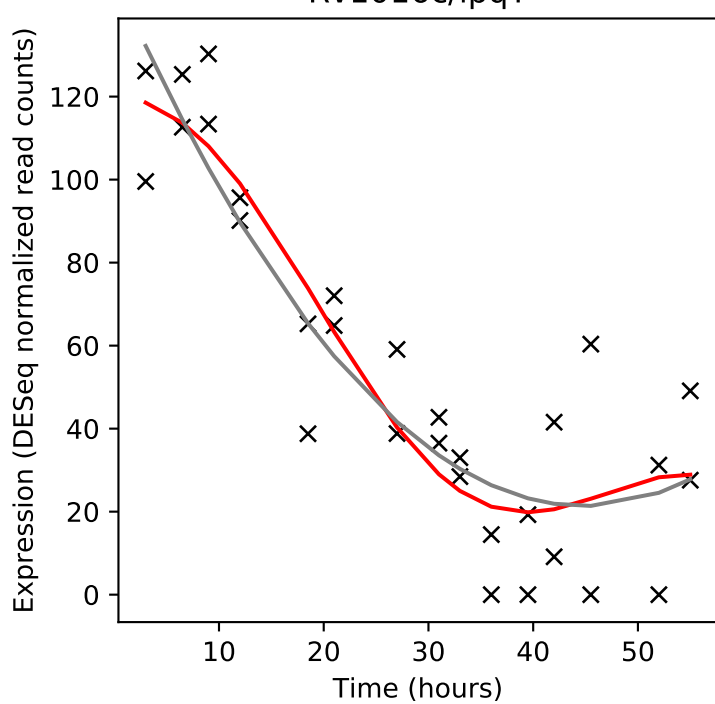
Rv1014c/pth



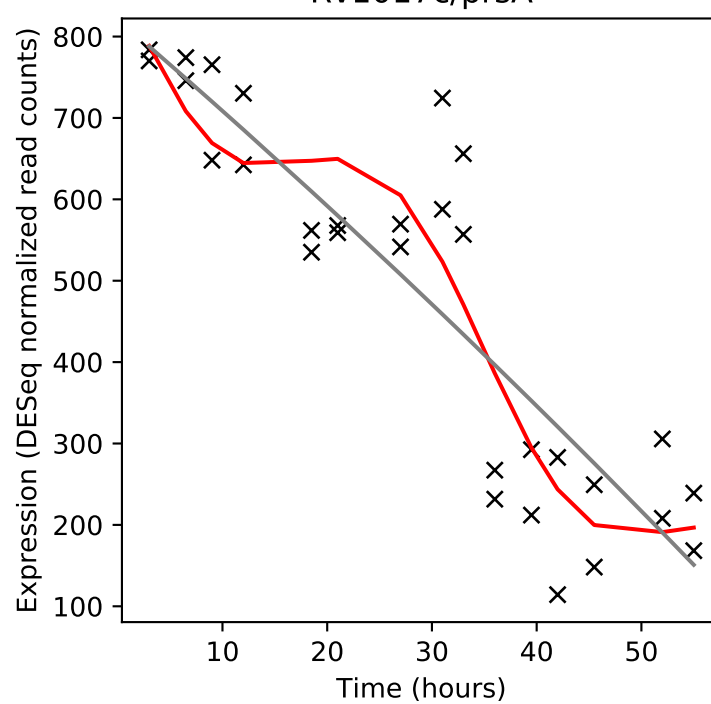
Rv1015c/rpIY



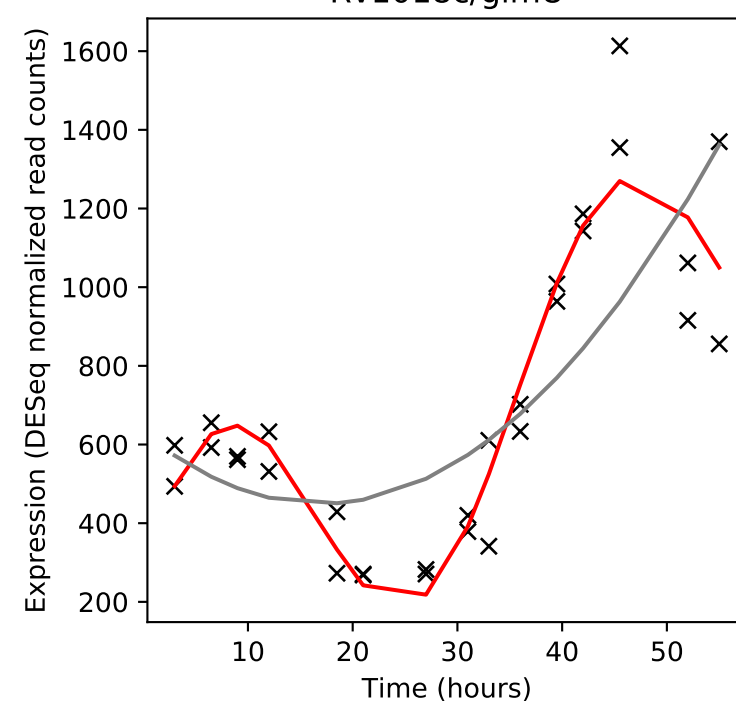
Rv1016c/lpqT



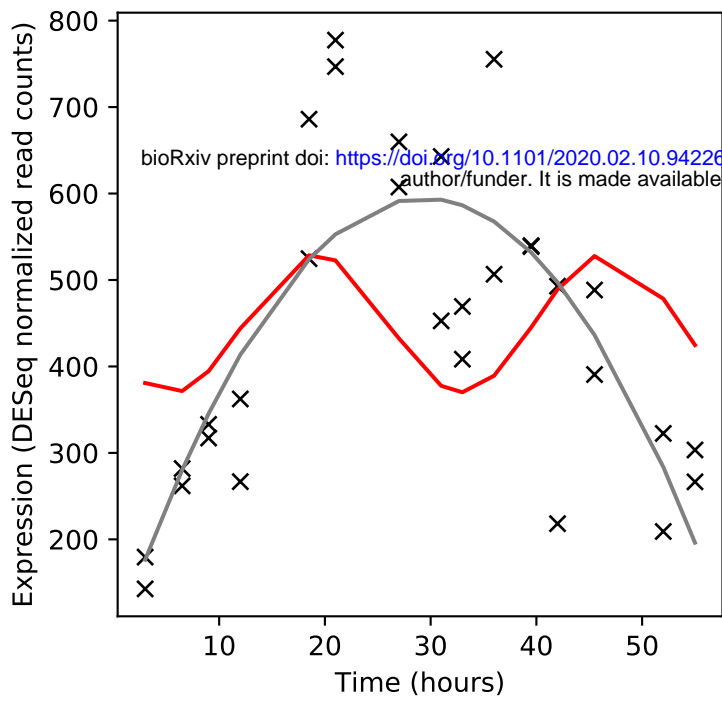
Rv1017c/prsA



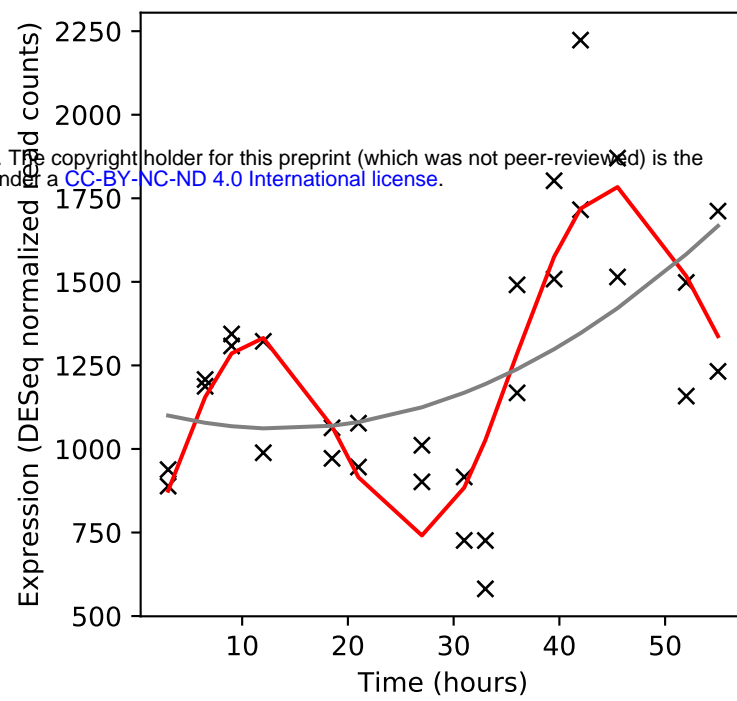
Rv1018c/glmU



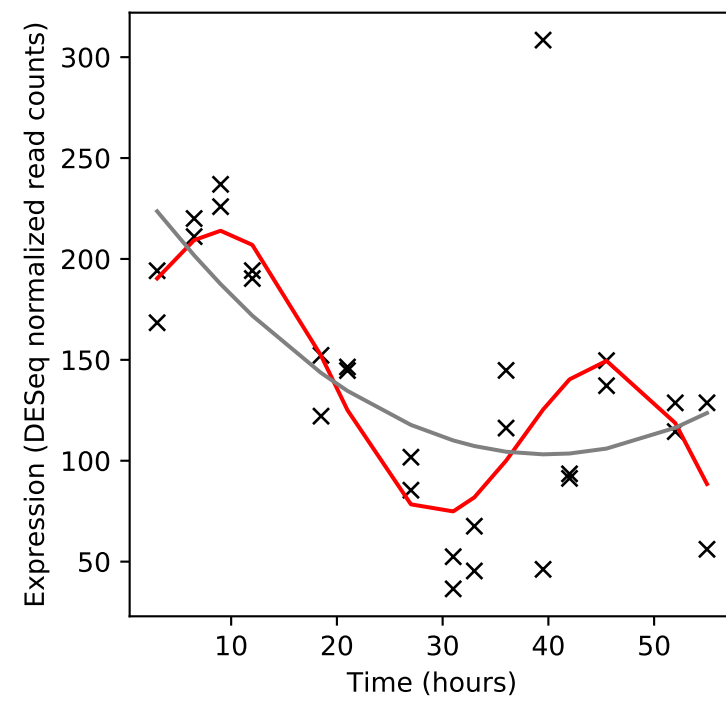
Rv1019/-



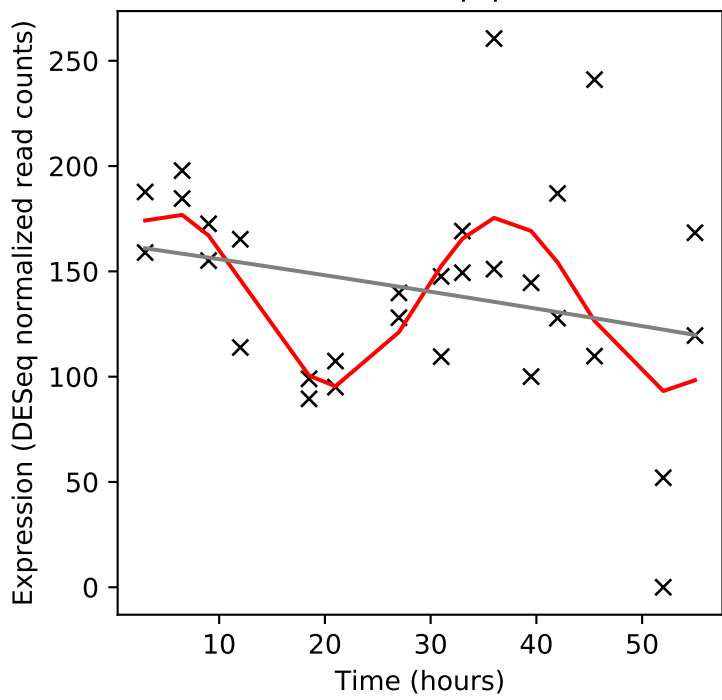
Rv1020/mfd



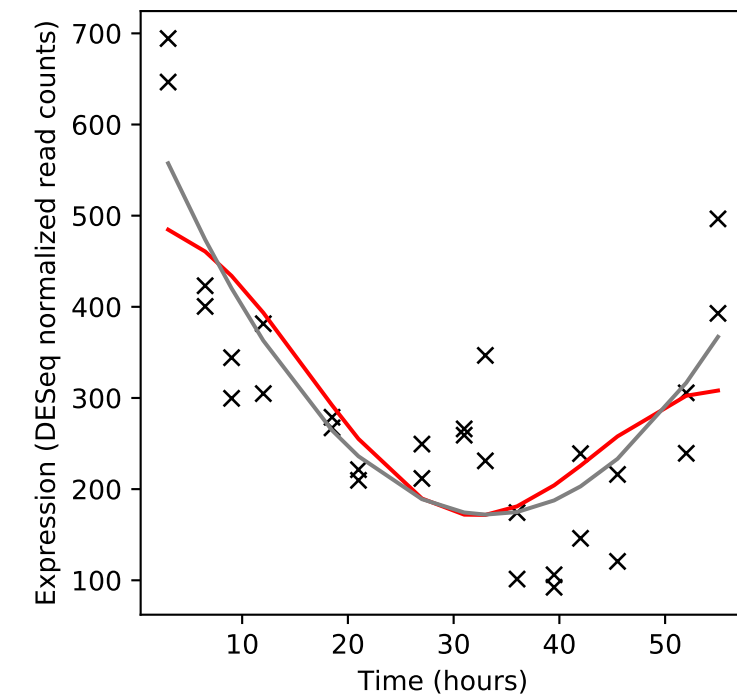
Rv1021/-



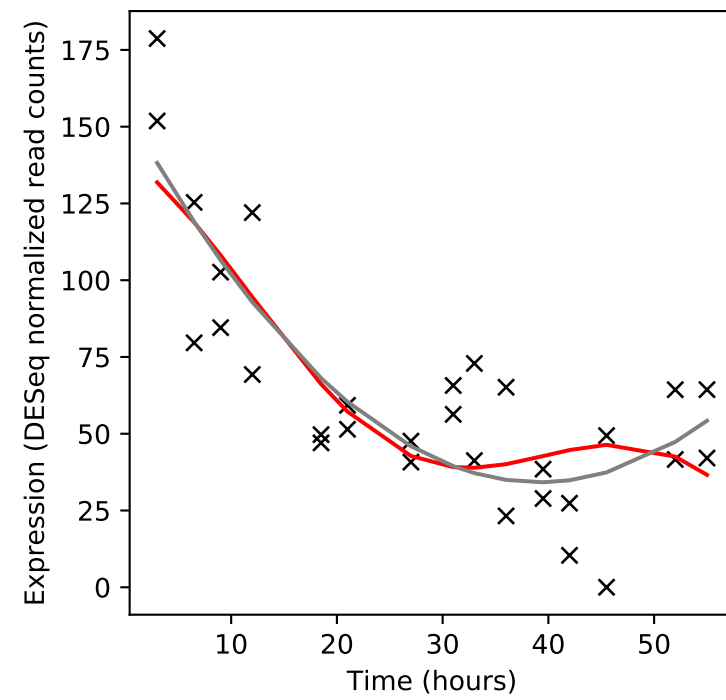
Rv1022/lpqU



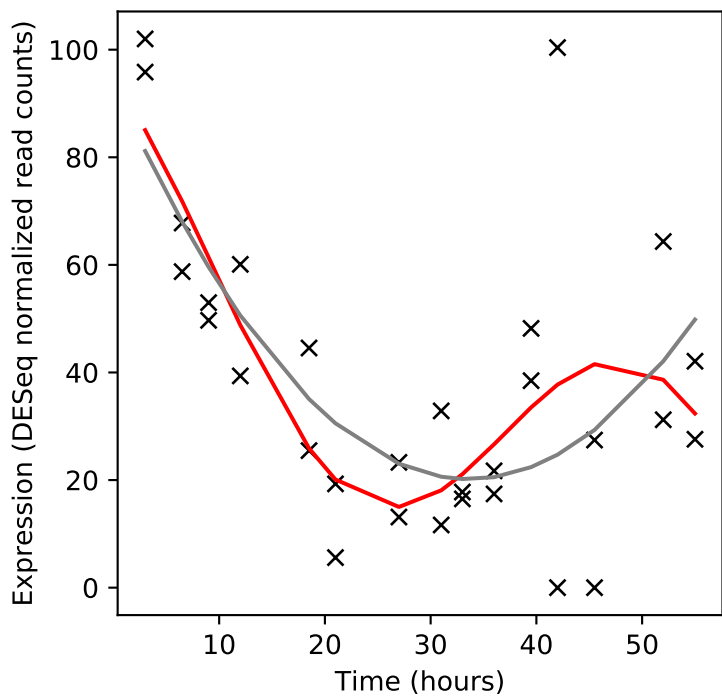
Rv1023/eno



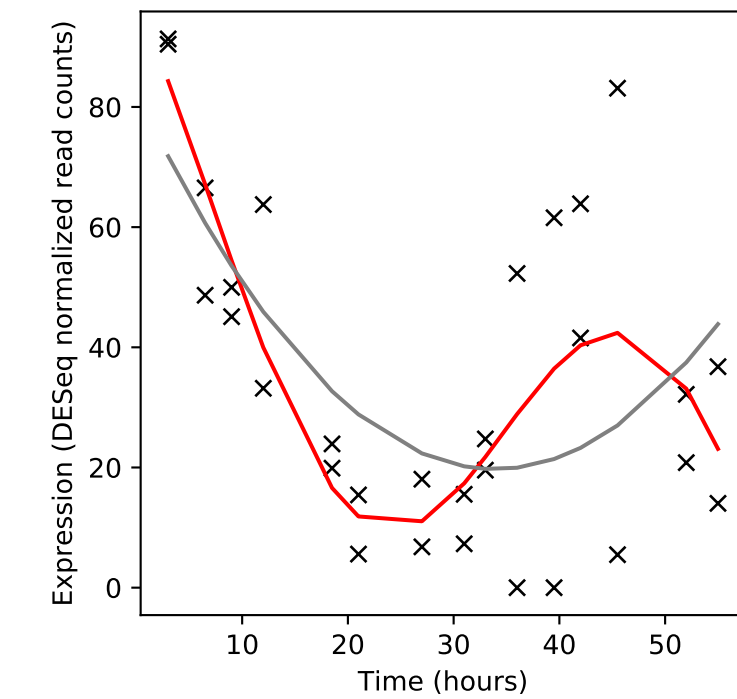
Rv1024/-



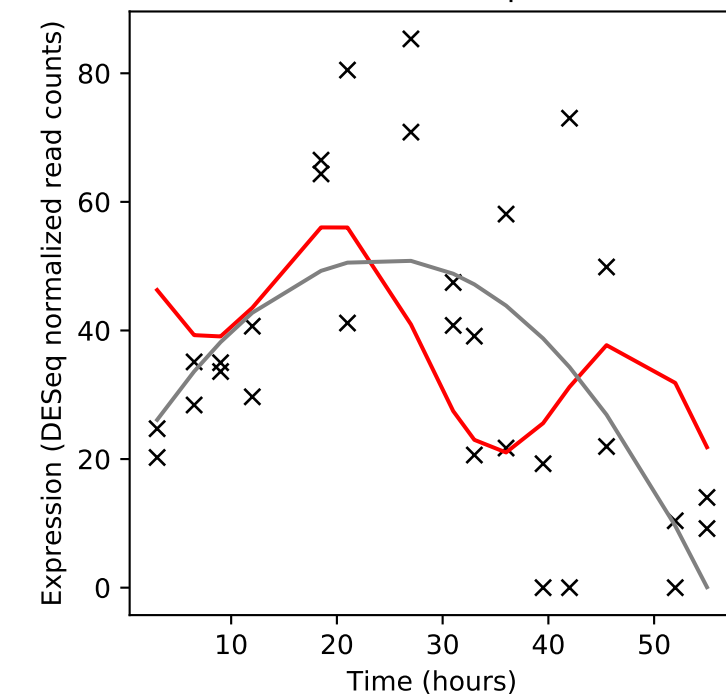
Rv1025/-



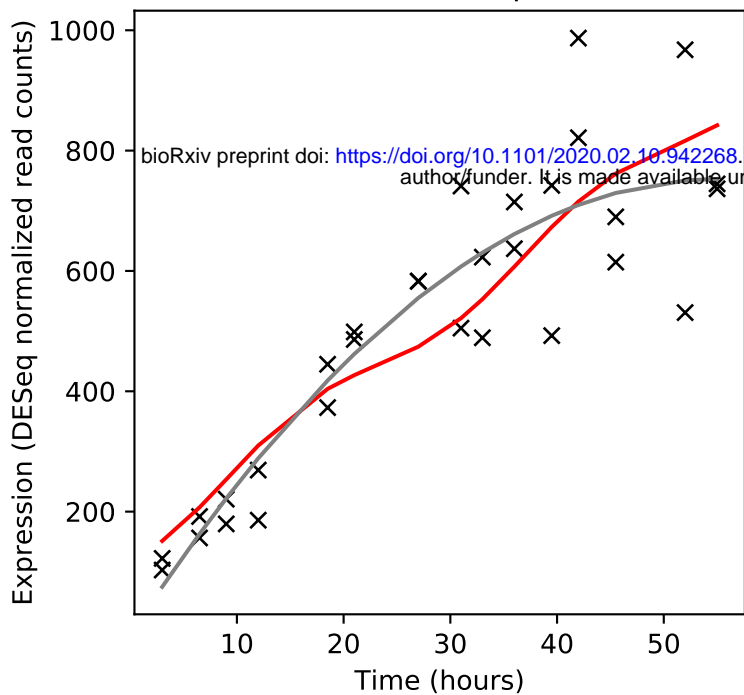
Rv1026/-



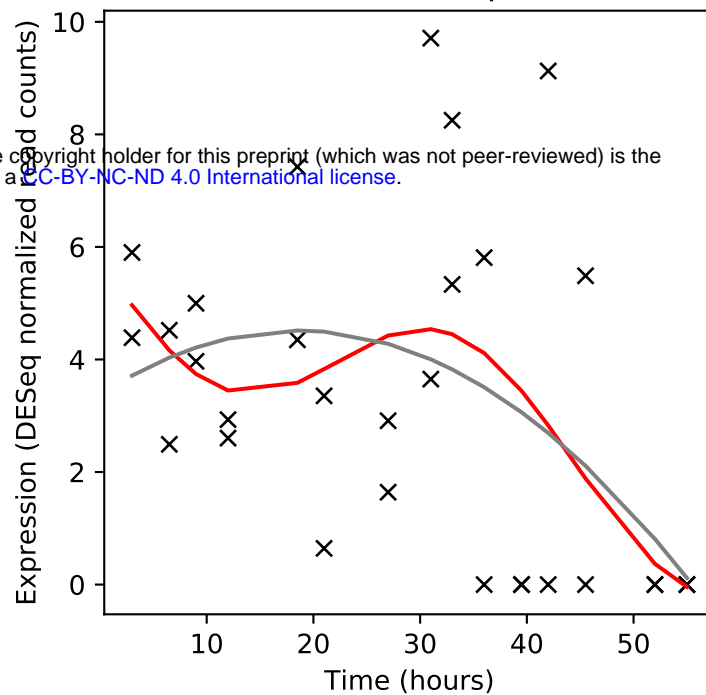
Rv1027c/kdpE



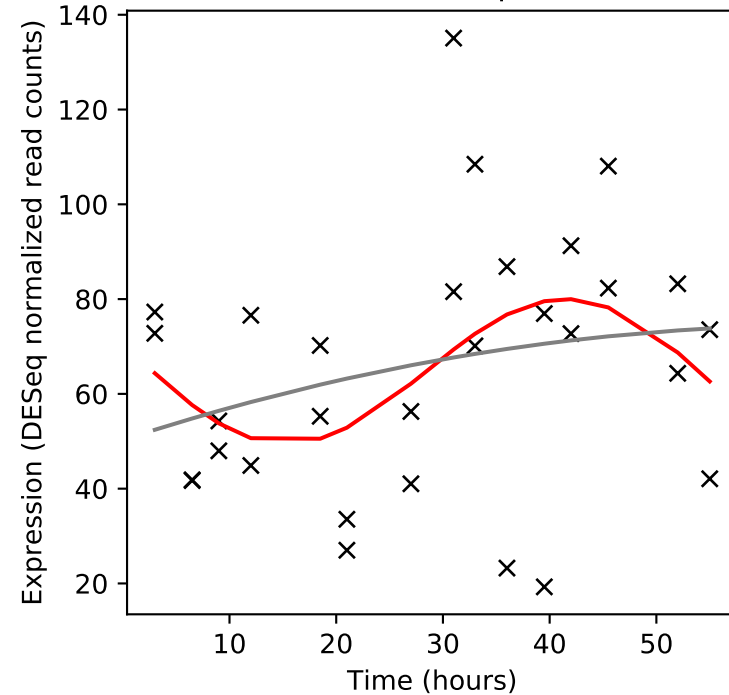
Rv1028c/kdpD



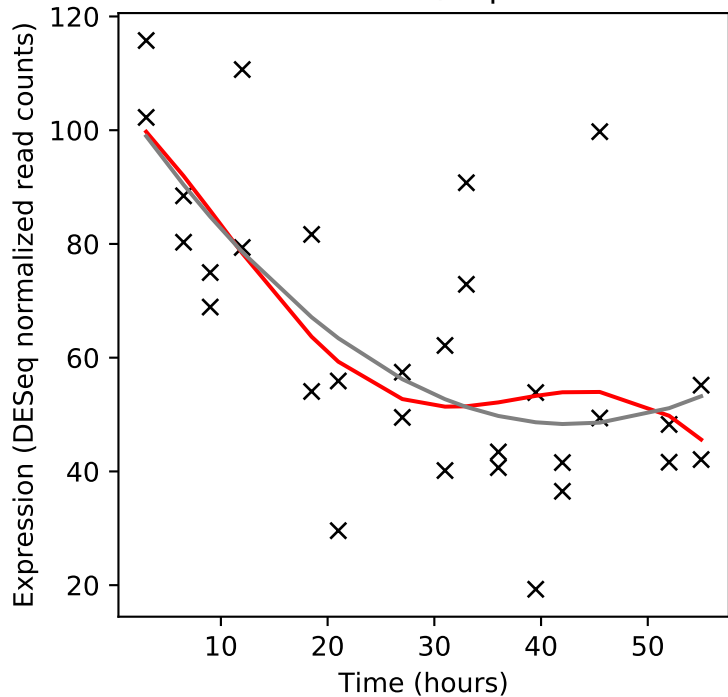
Rv1028A/kdpF



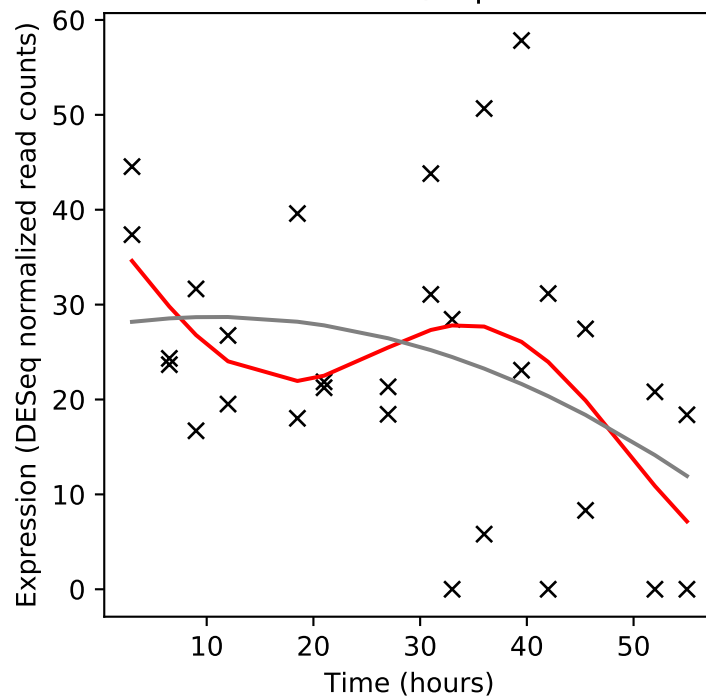
Rv1029/kdpA



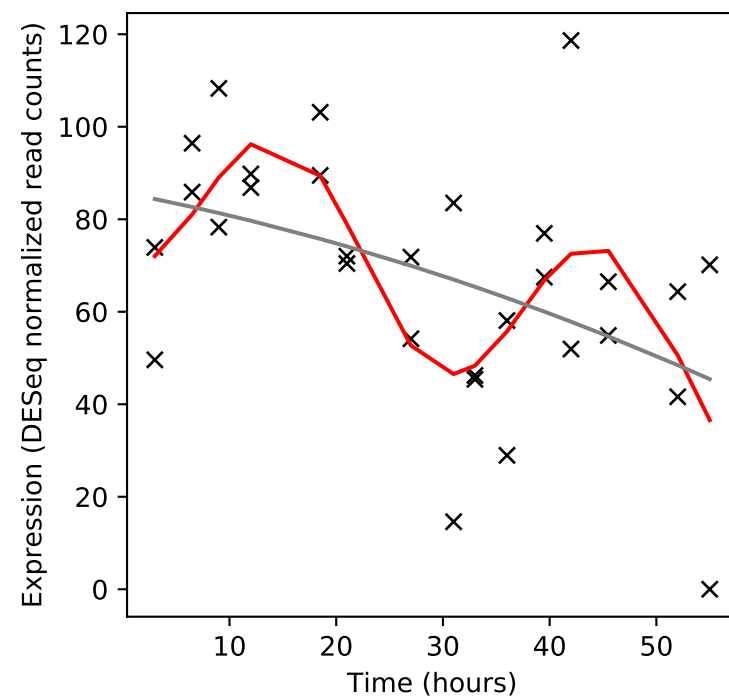
Rv1030/kdpB



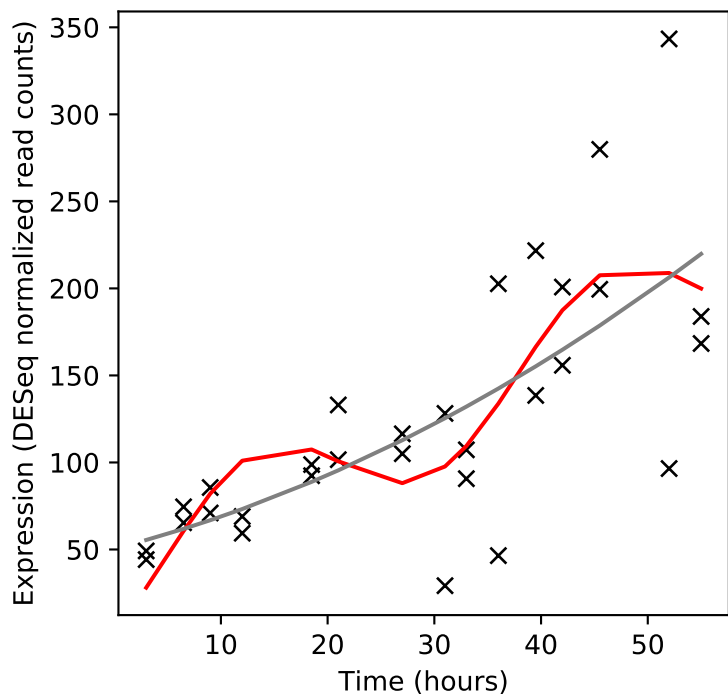
Rv1031/kdpC



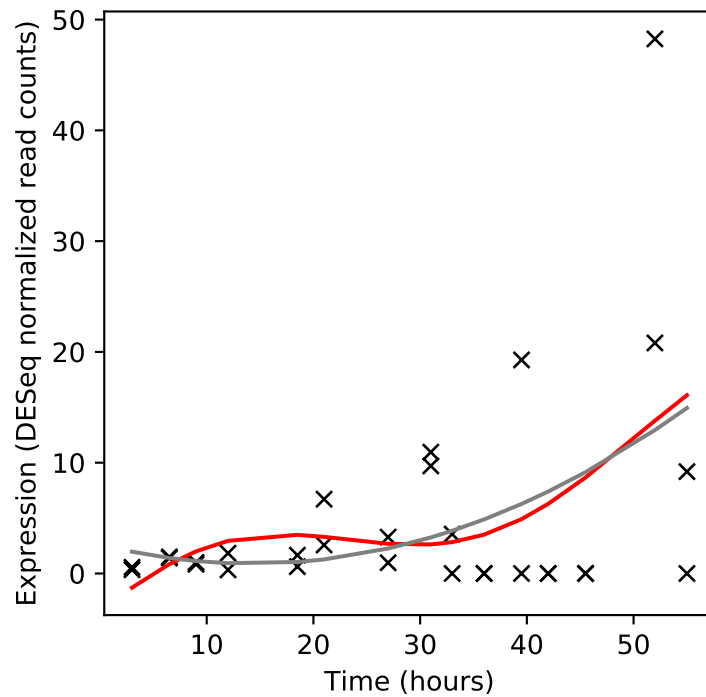
Rv1032c/trcS



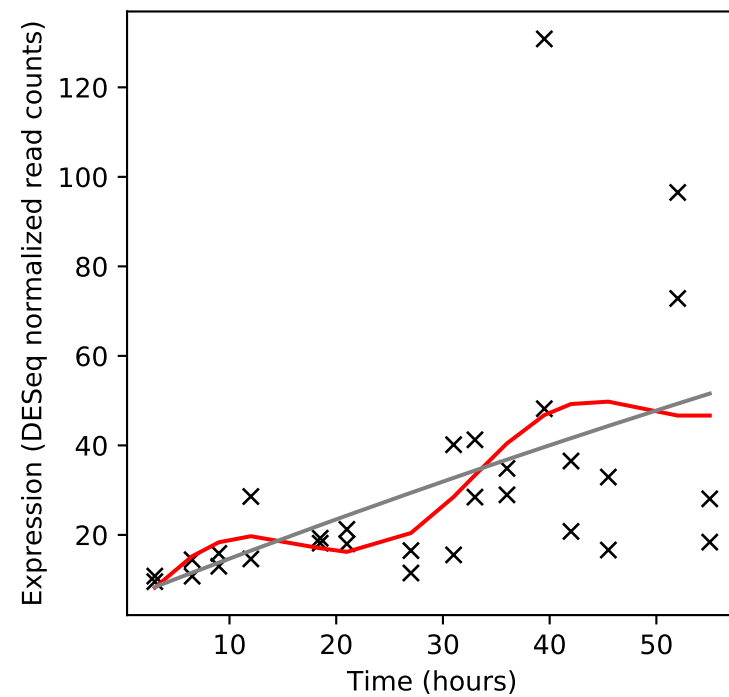
Rv1033c/trcR



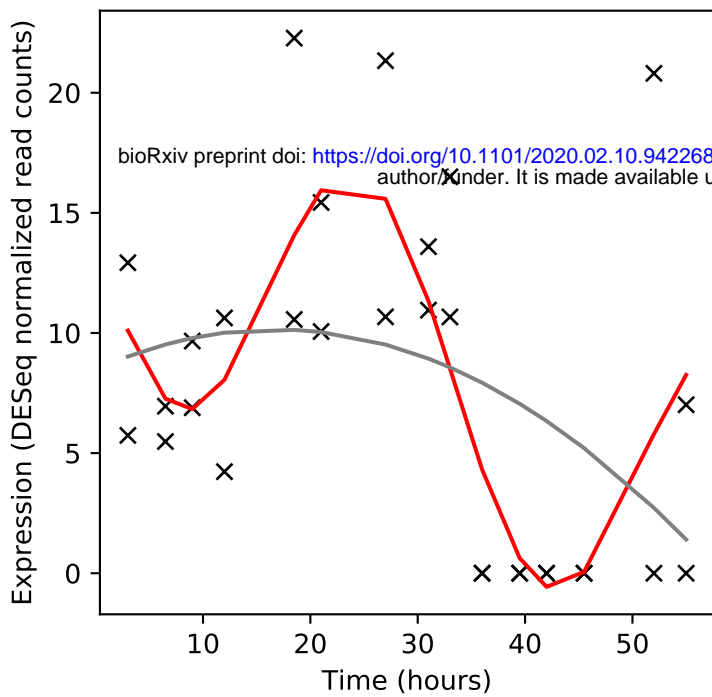
Rv1034c/-



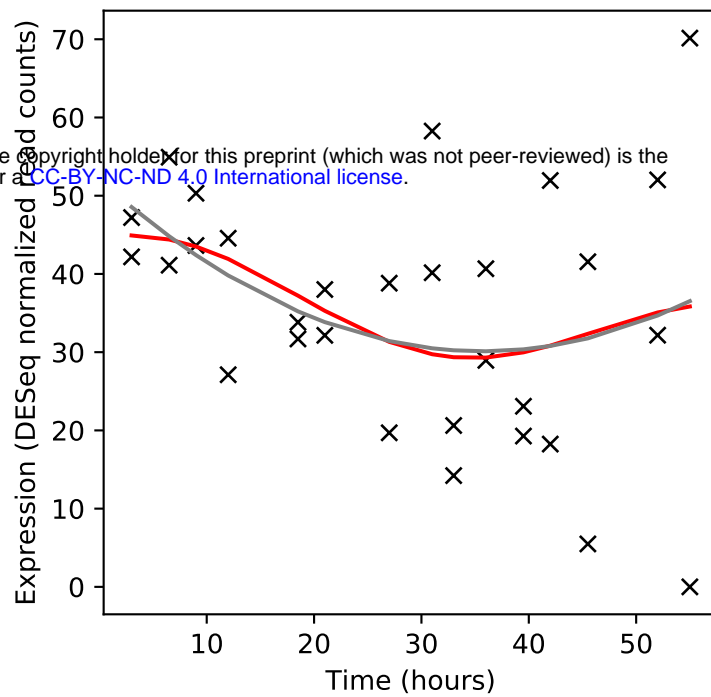
Rv1035c/-



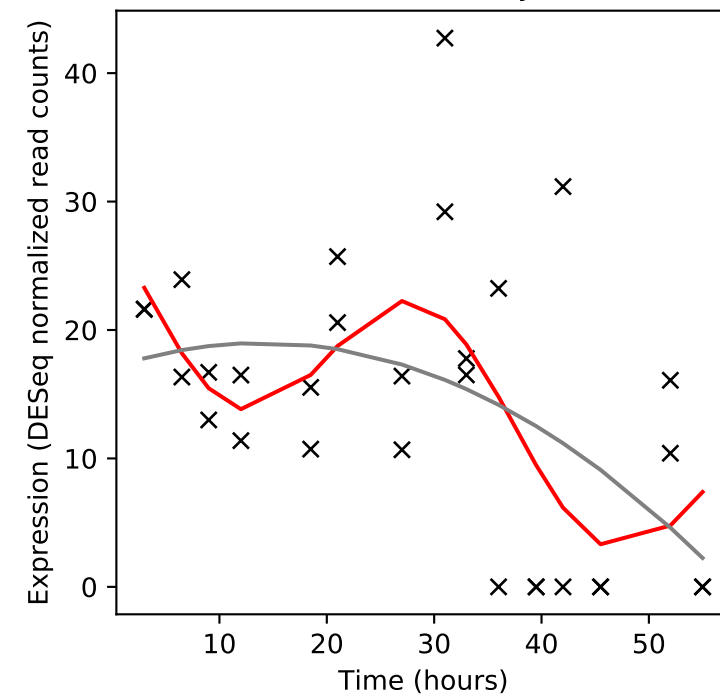
Rv1036c/-



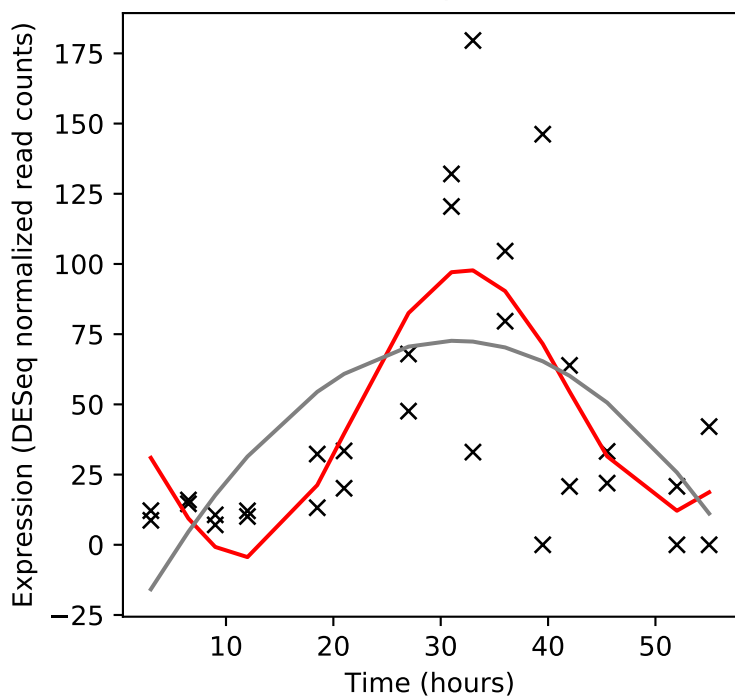
Rv1037c/esxl



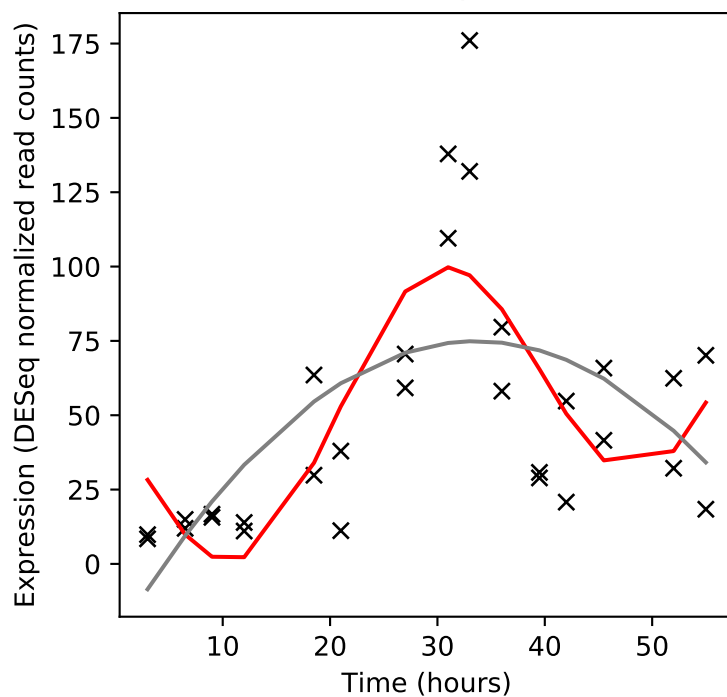
Rv1038c/esxl



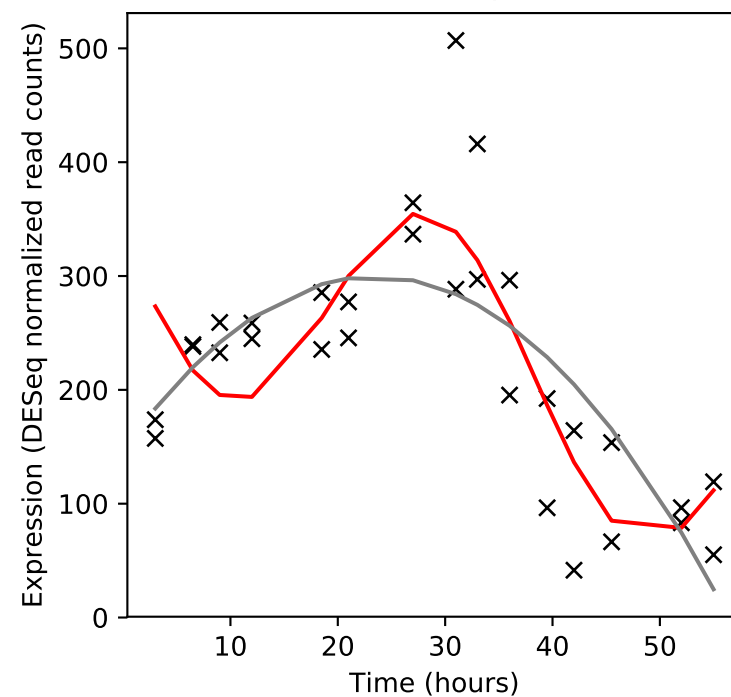
Rv1039c/PPE15



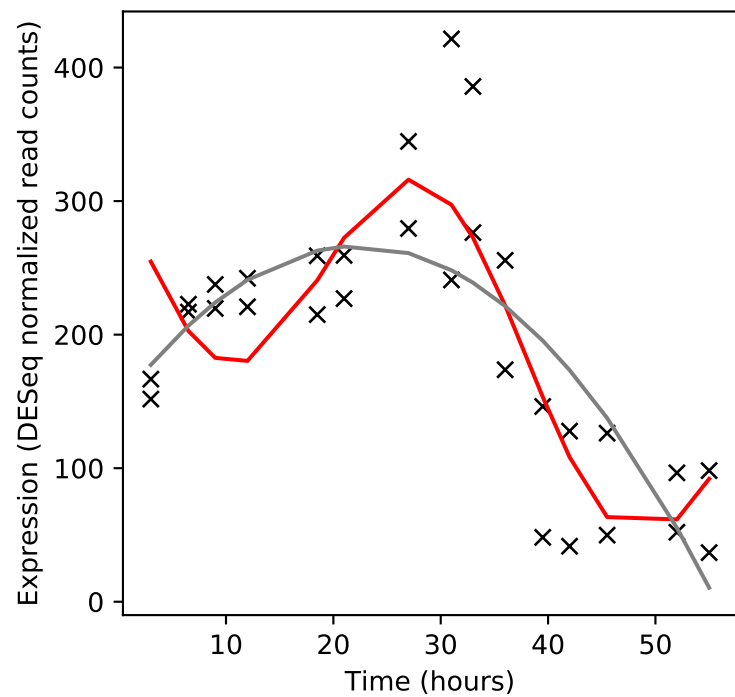
Rv1040c/PE8



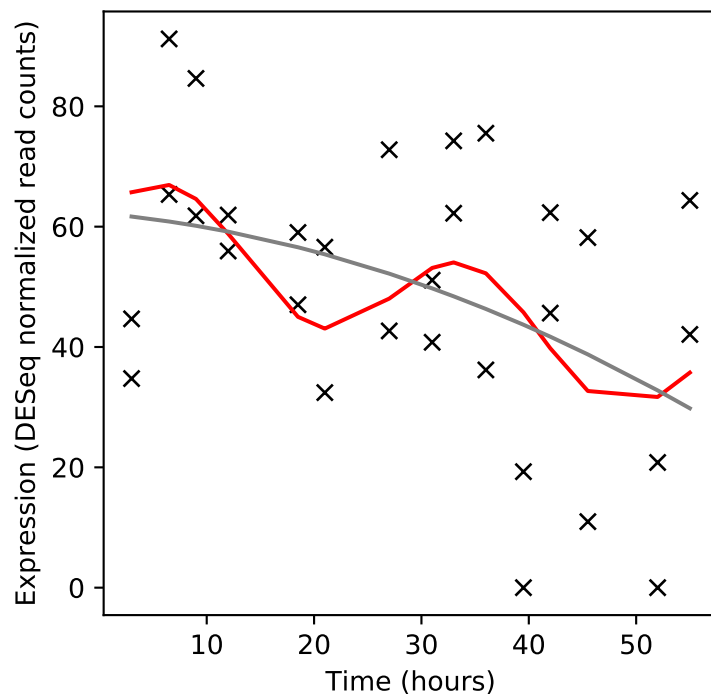
Rv1041c/-



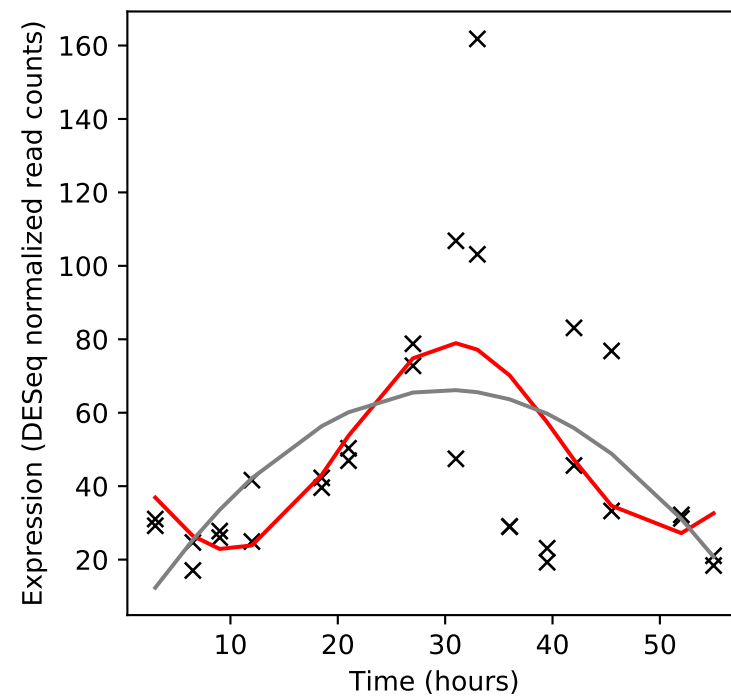
Rv1042c/-

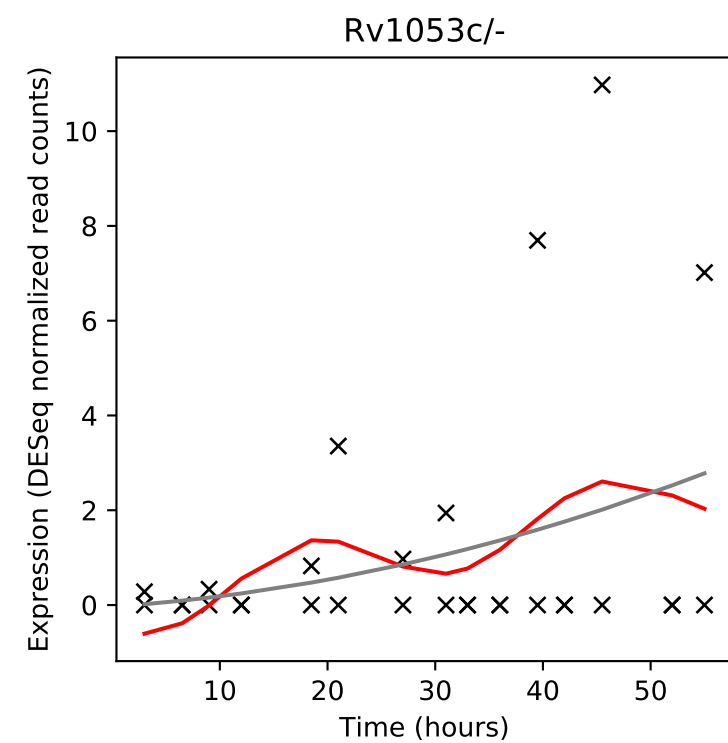
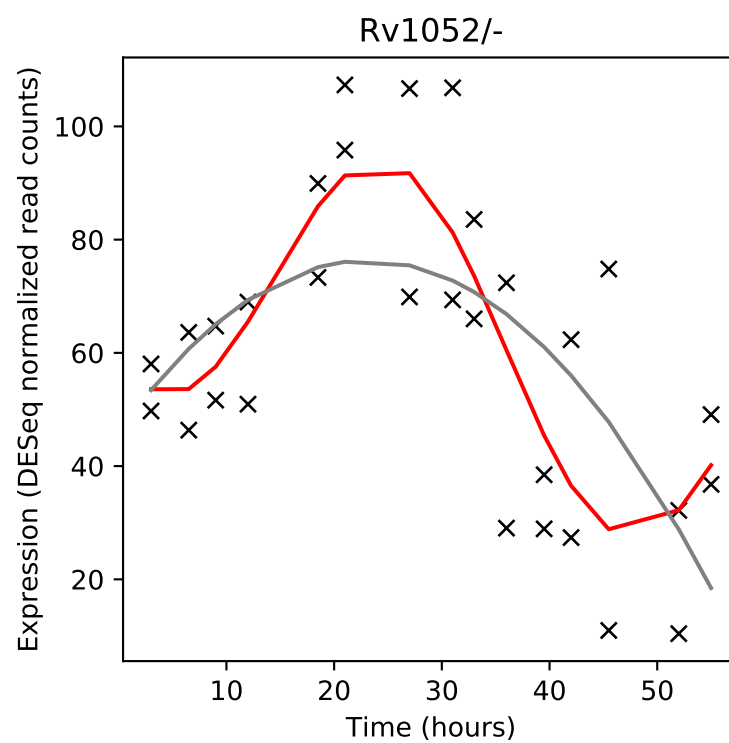
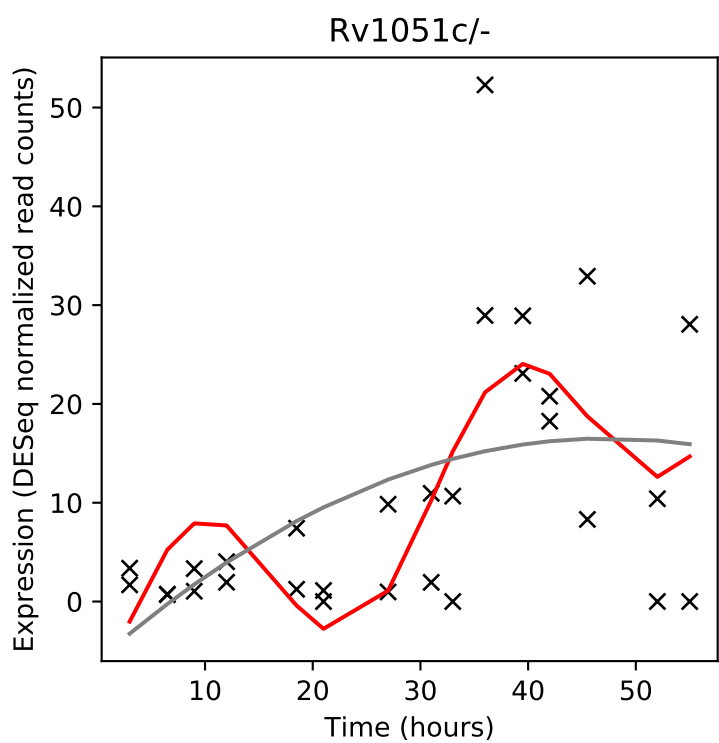
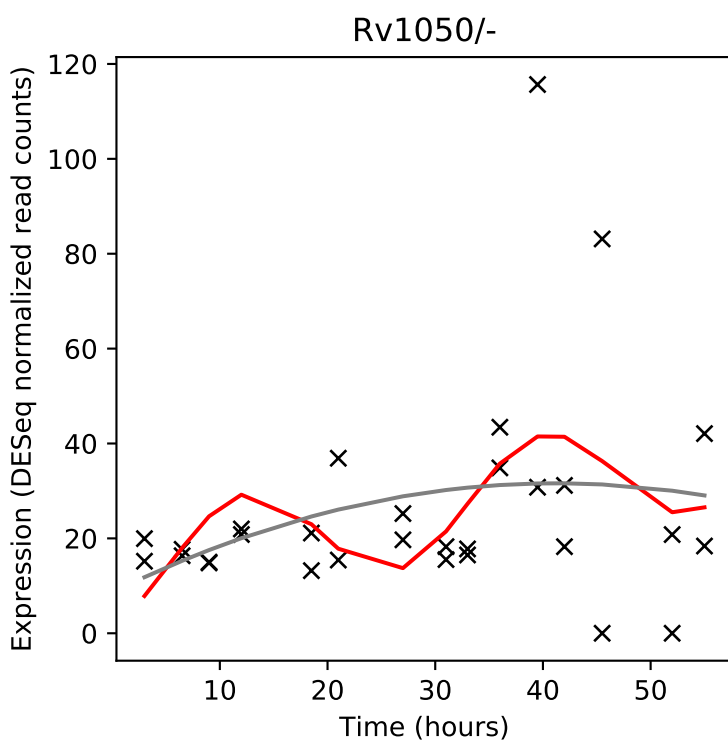
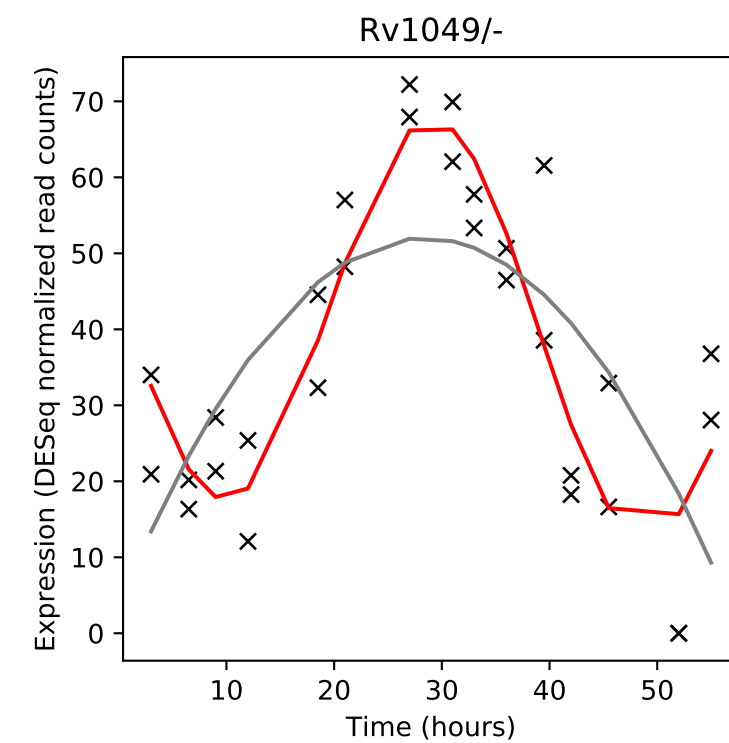
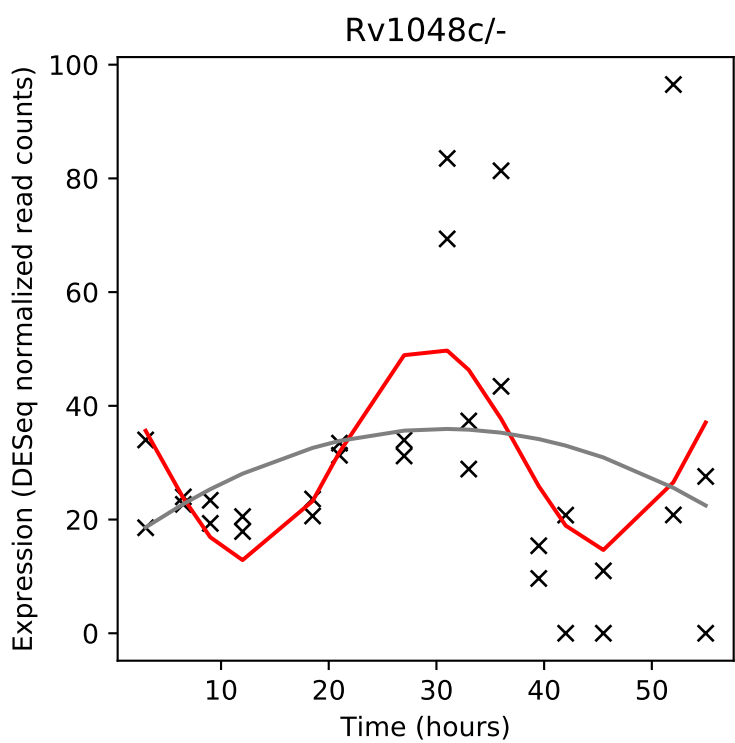
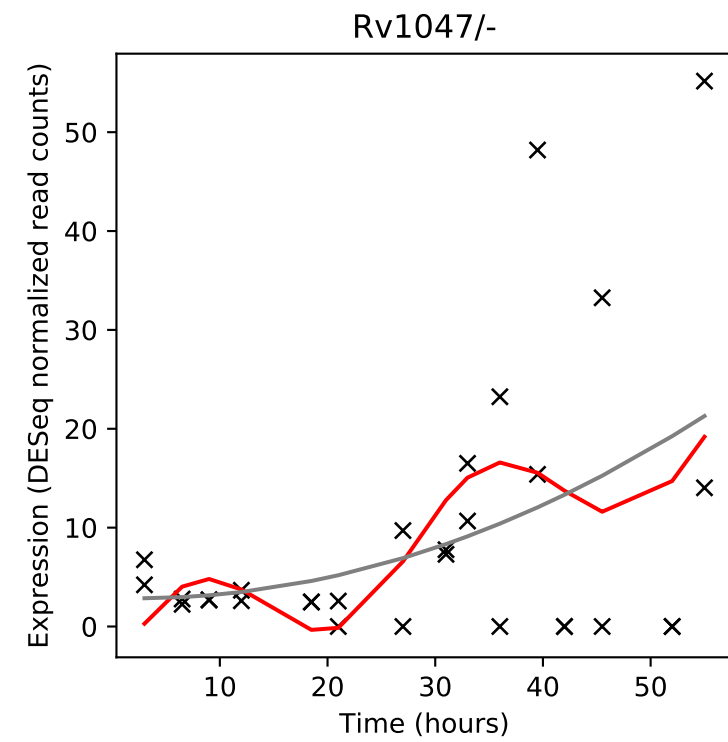
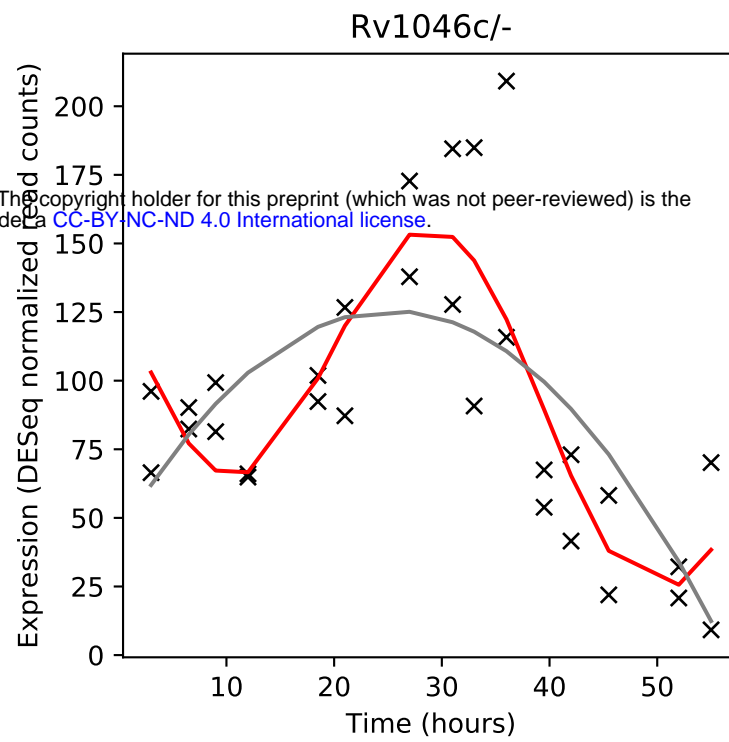
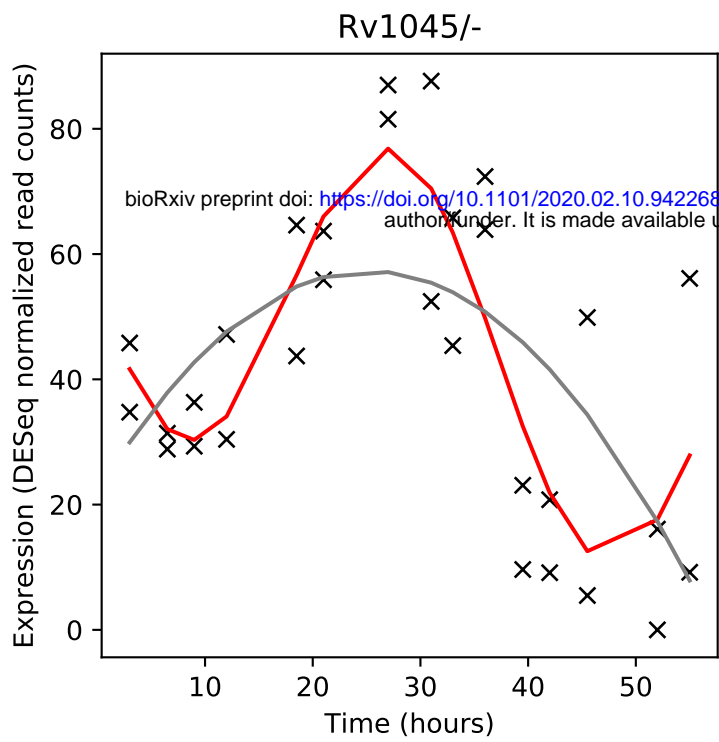


Rv1043c/-

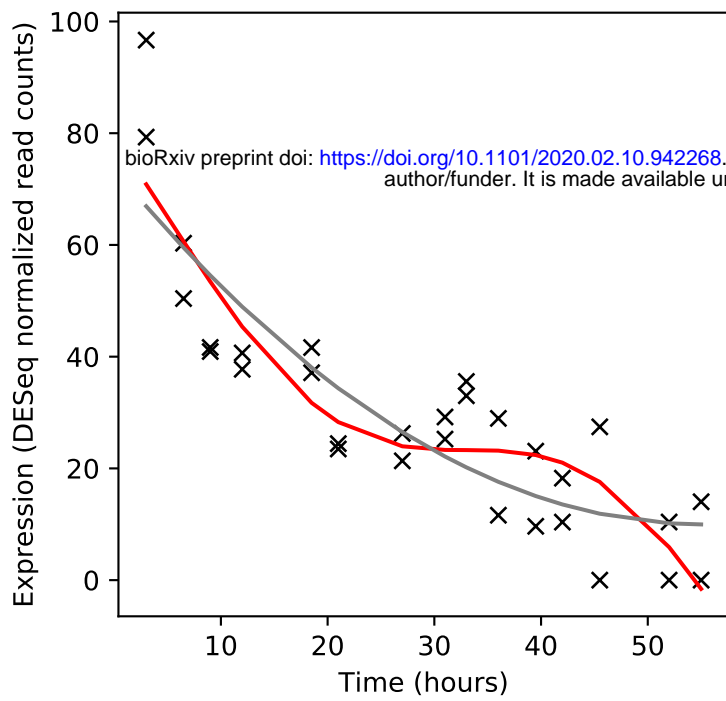


Rv1044c/-

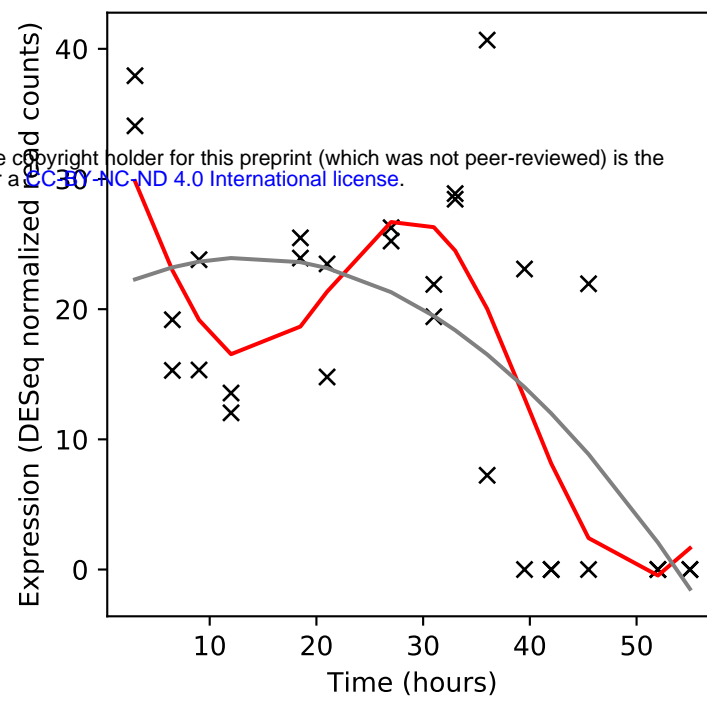




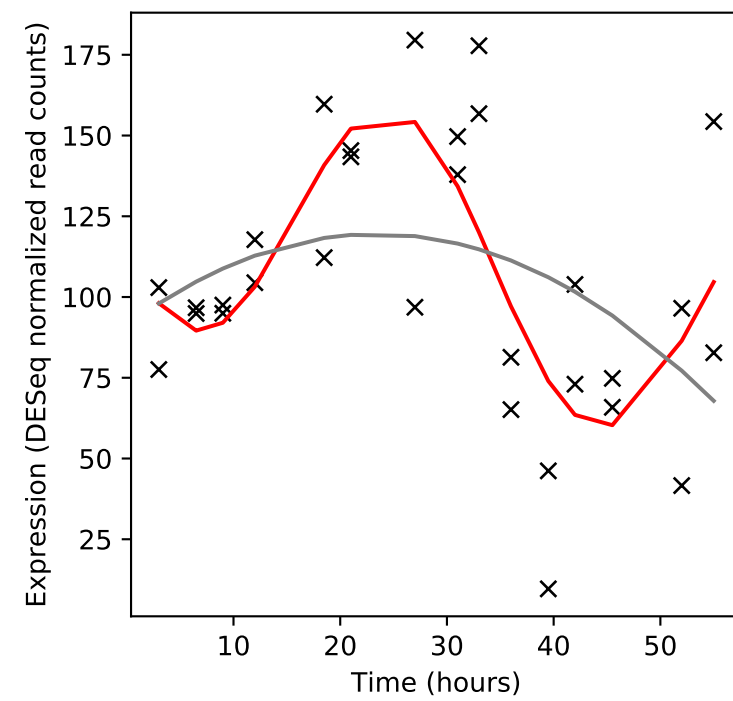
Rv1054/-



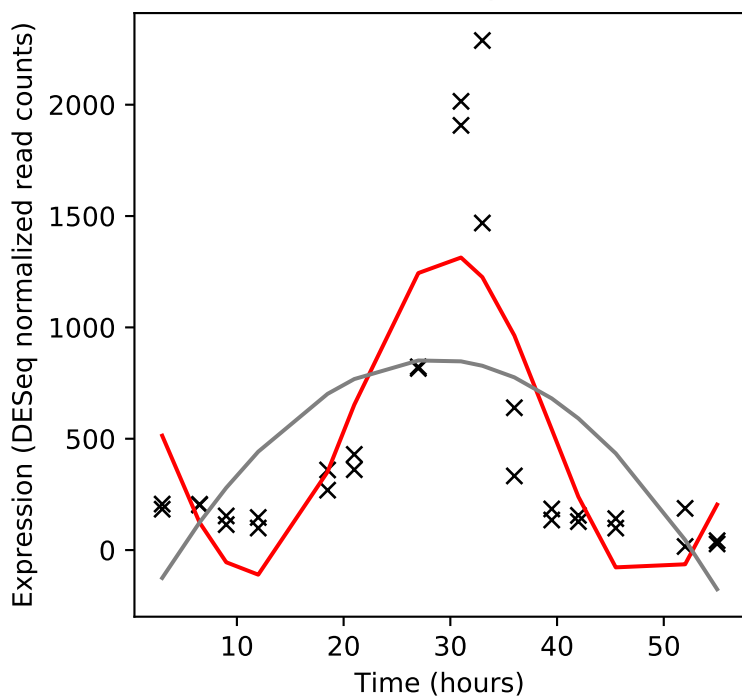
Rv1055/-



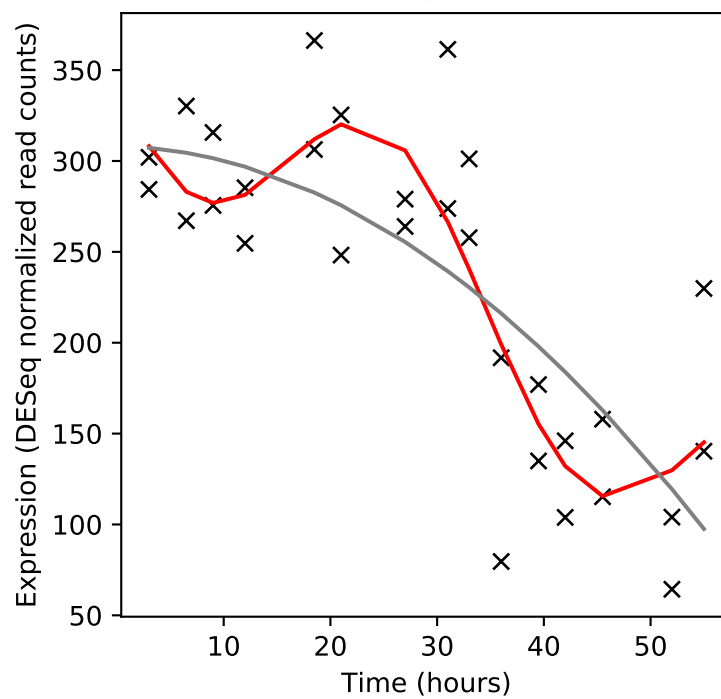
Rv1056/-



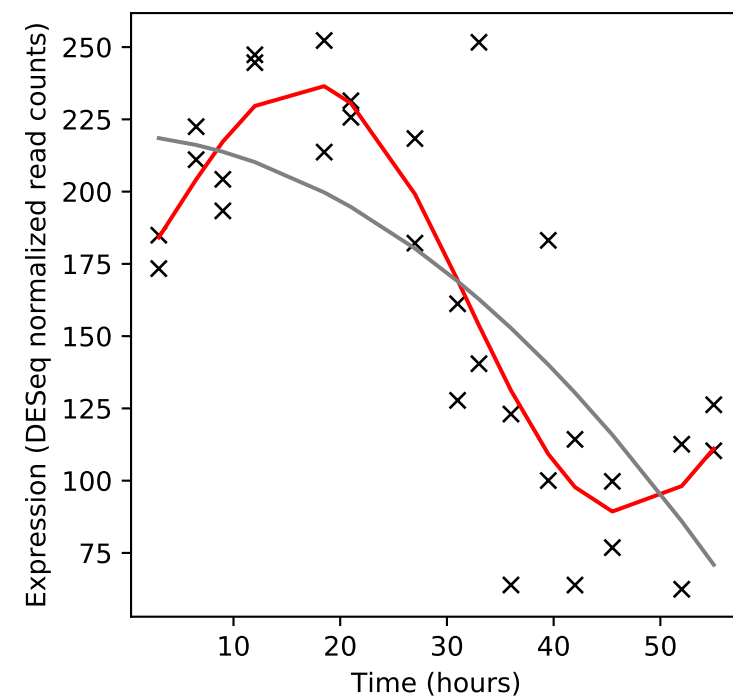
Rv1057/-



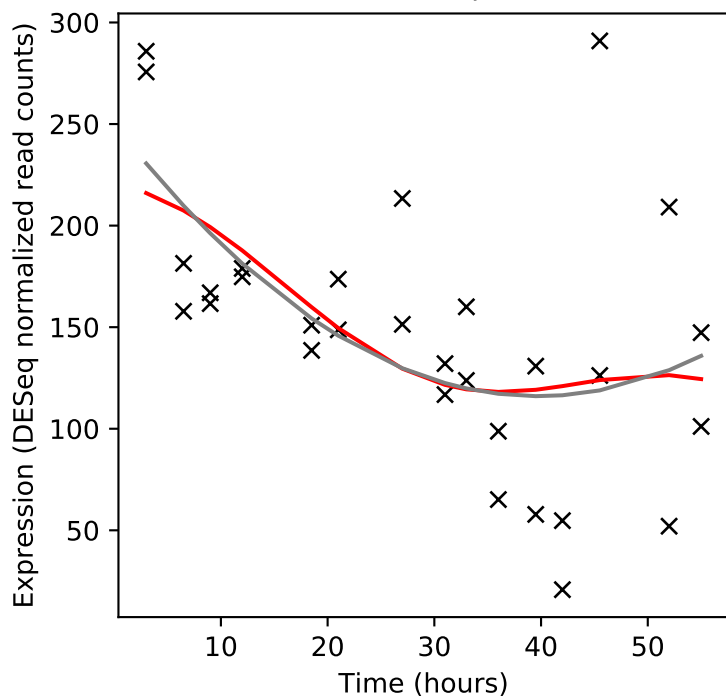
Rv1058/fadD14



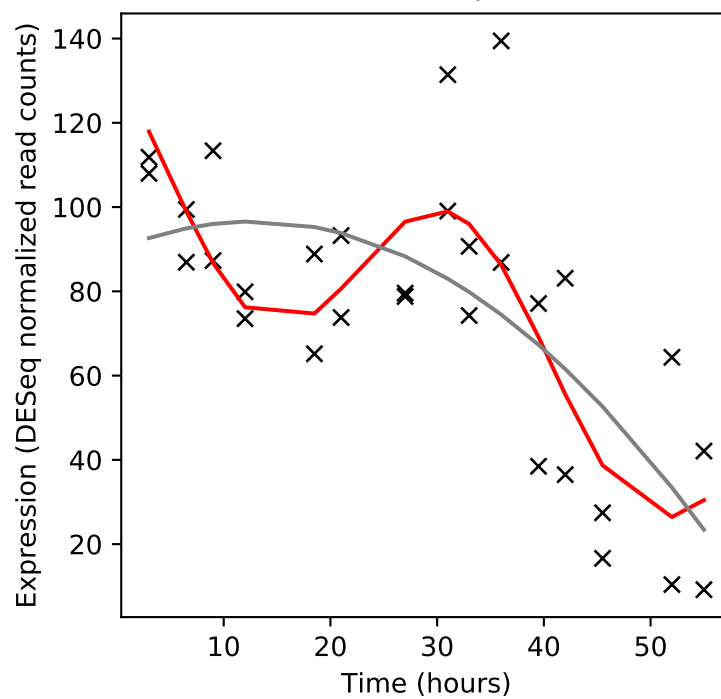
Rv1059/-



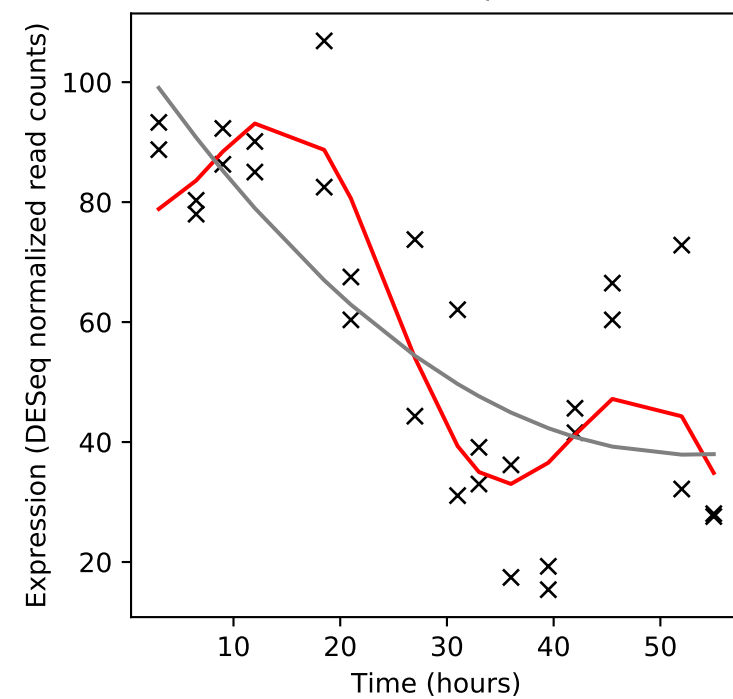
Rv1060/-



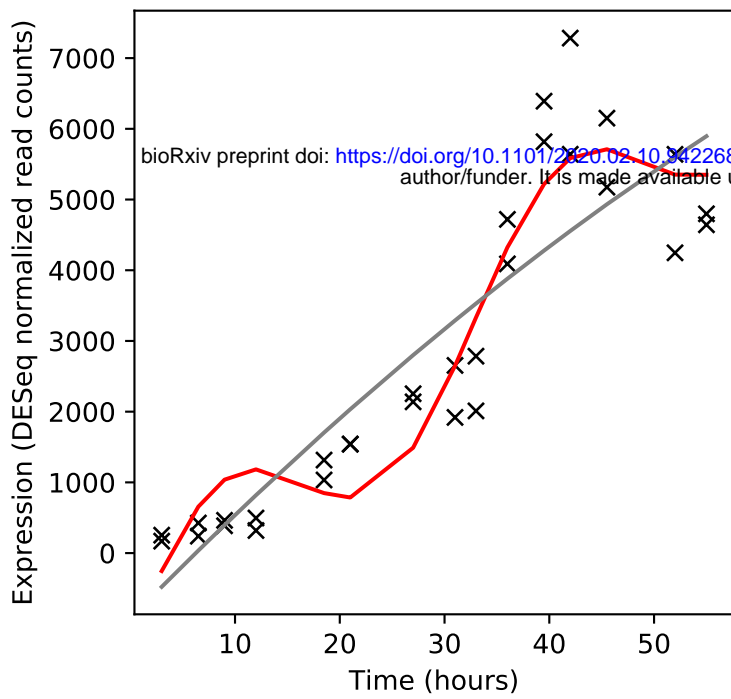
Rv1061/-



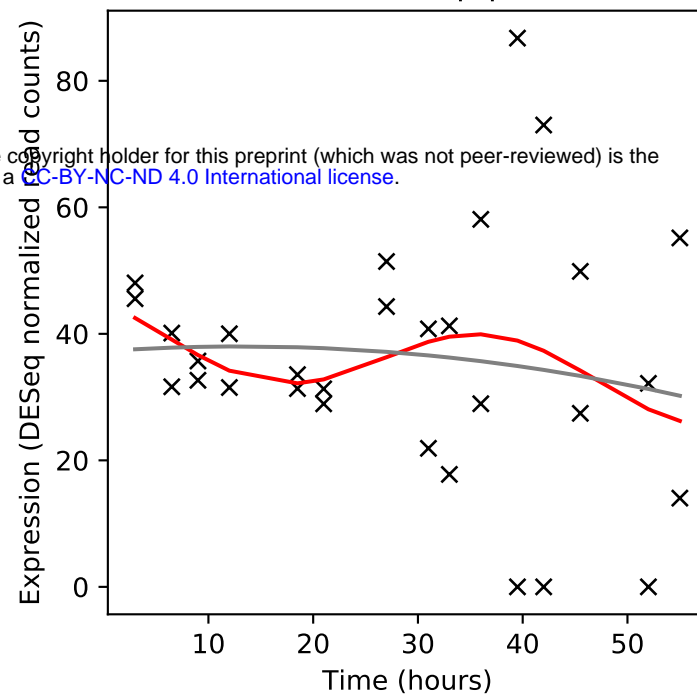
Rv1062/-



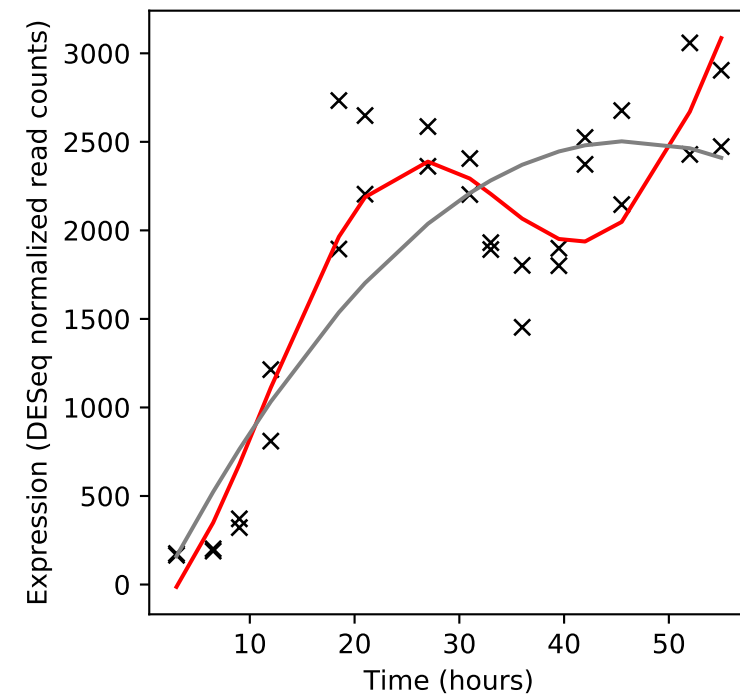
Rv1063c/-



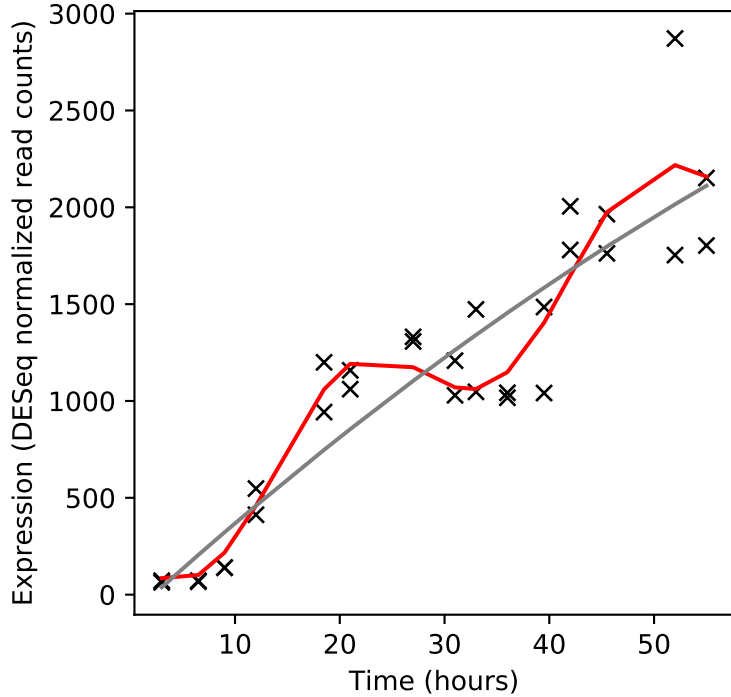
Rv1064c/lpqV



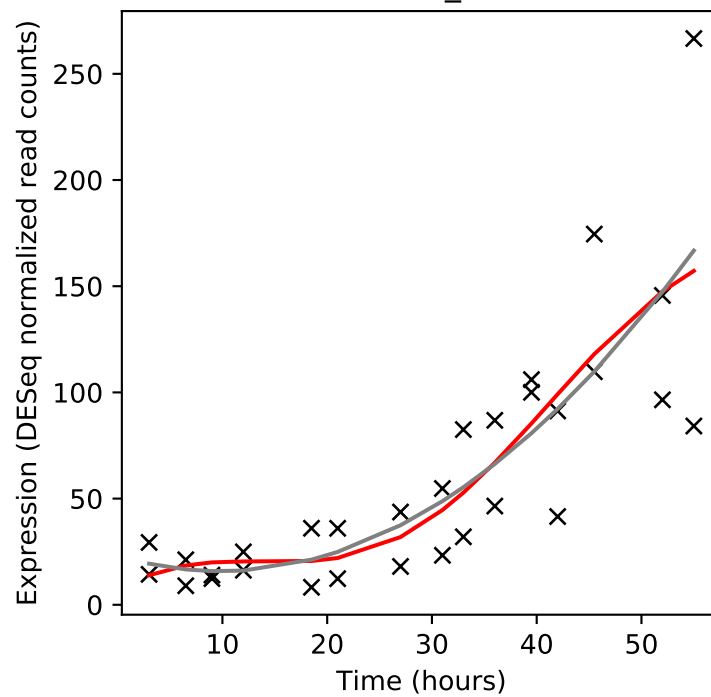
Rv1065/-



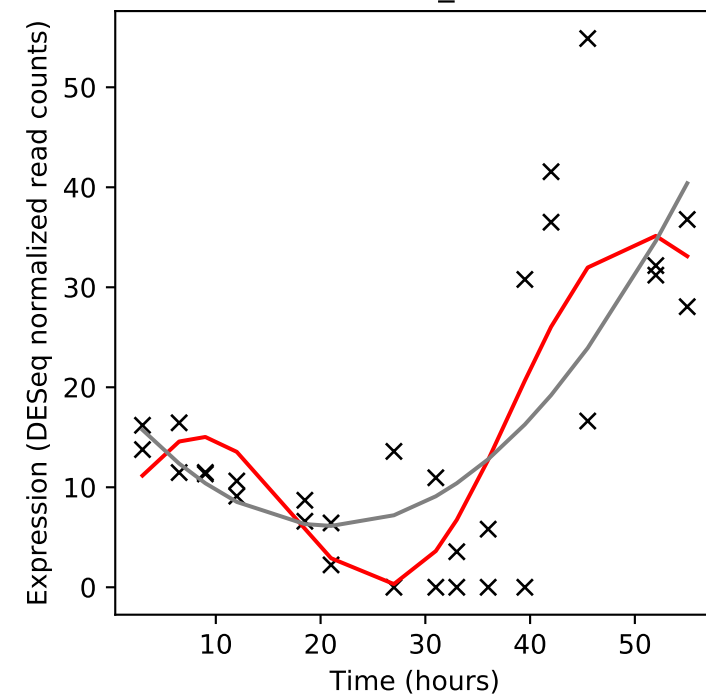
Rv1066/-



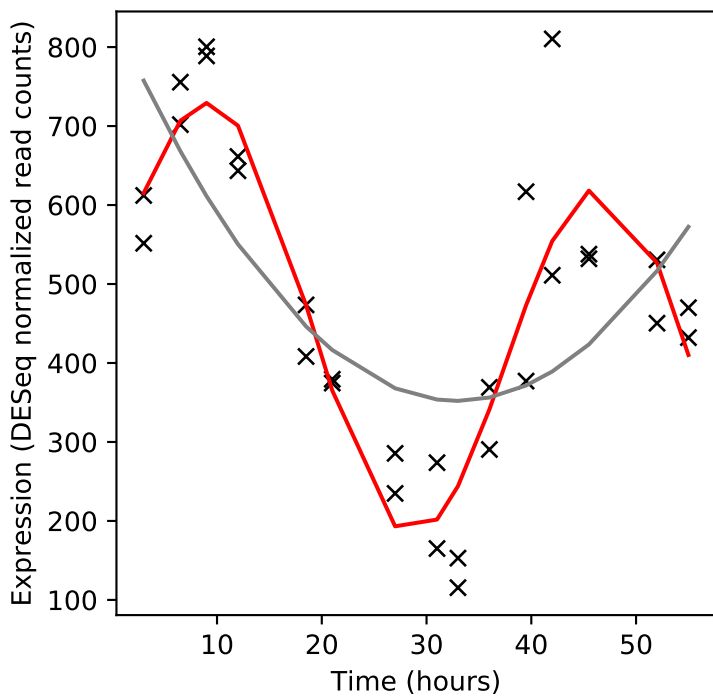
Rv1067c/PE_PGRS19



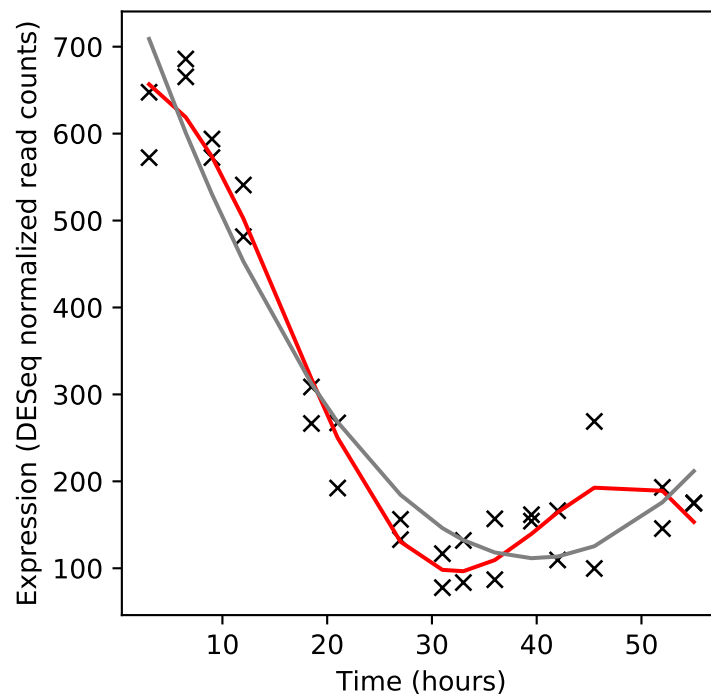
Rv1068c/PE_PGRS20



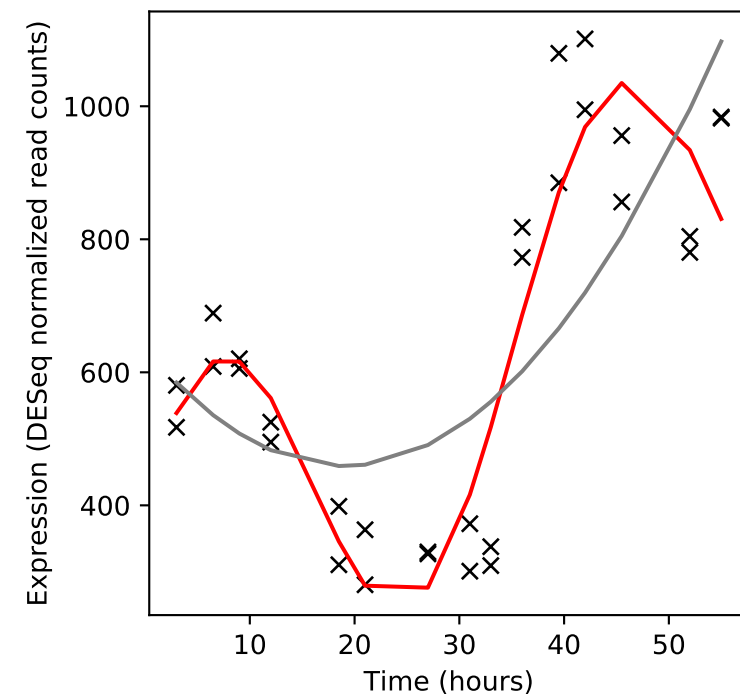
Rv1069c/-



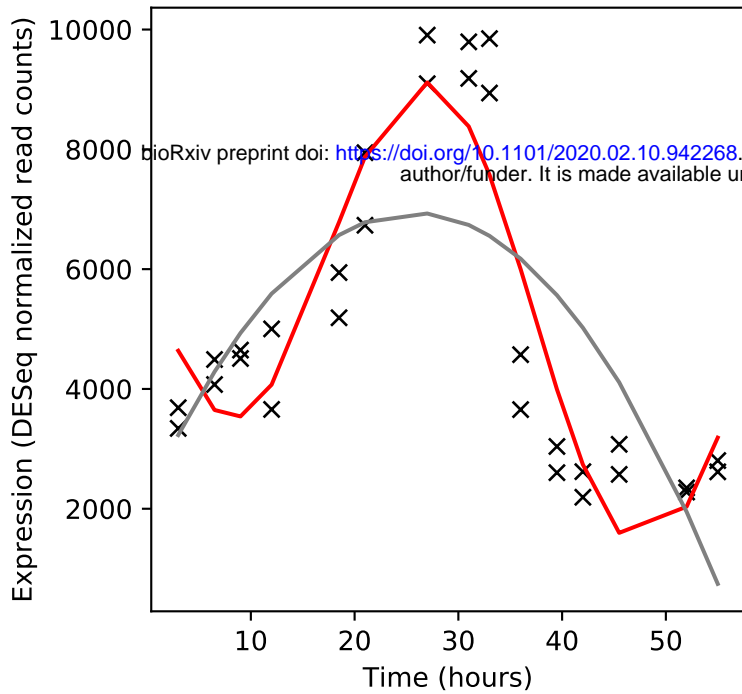
Rv1070c/echA8



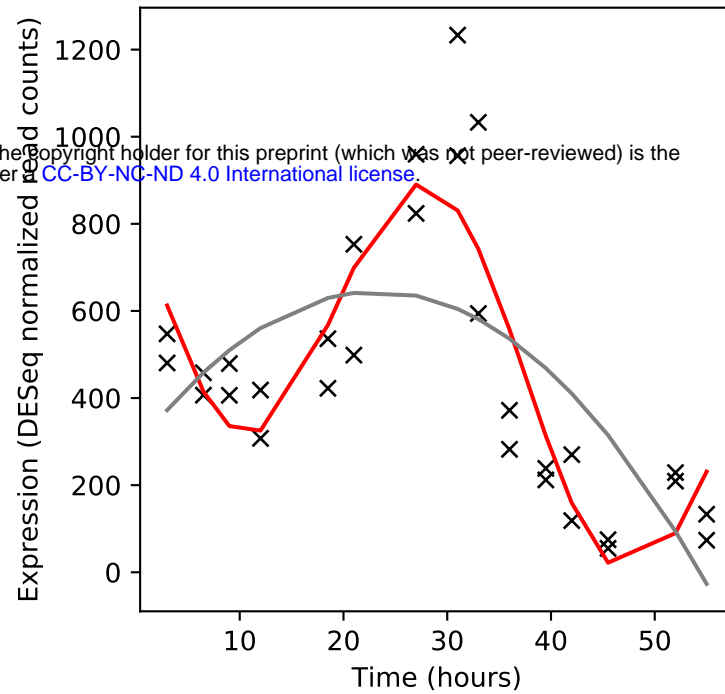
Rv1071c/echA9



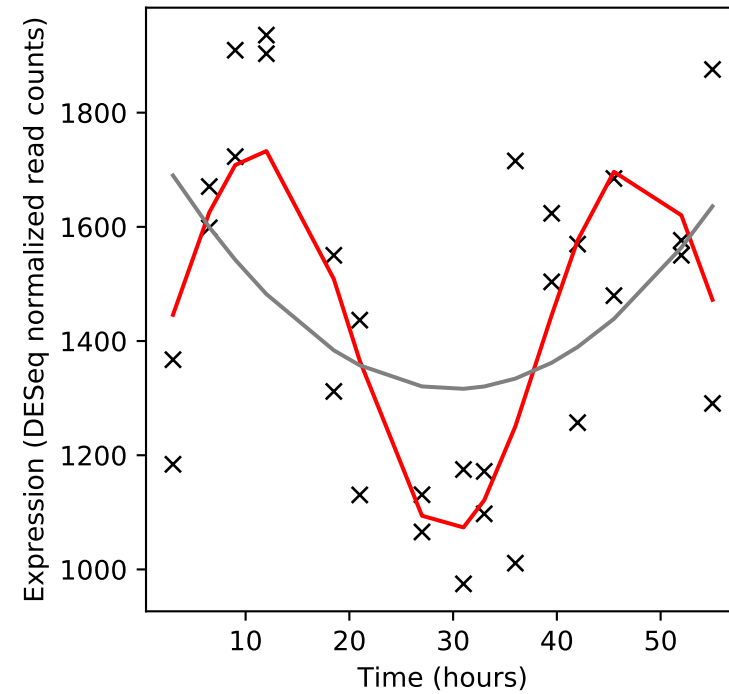
Rv1072/-



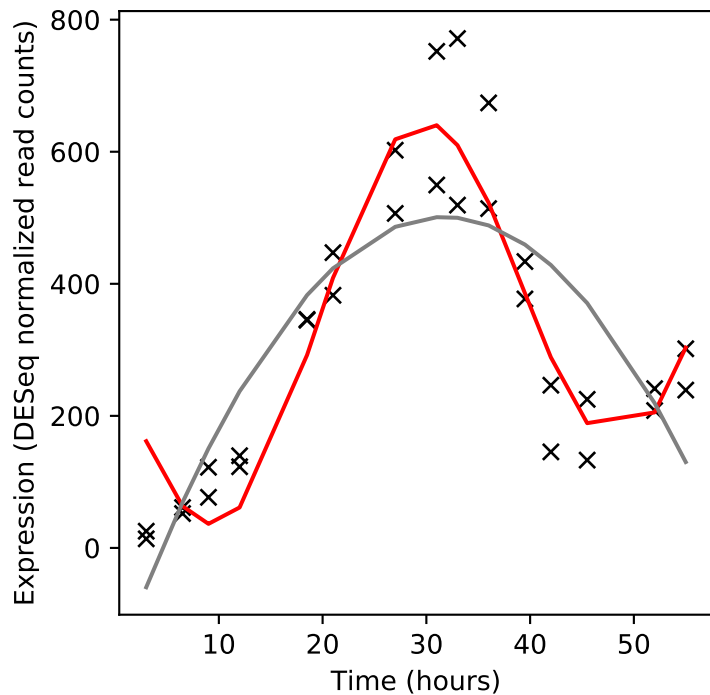
Rv1073/-



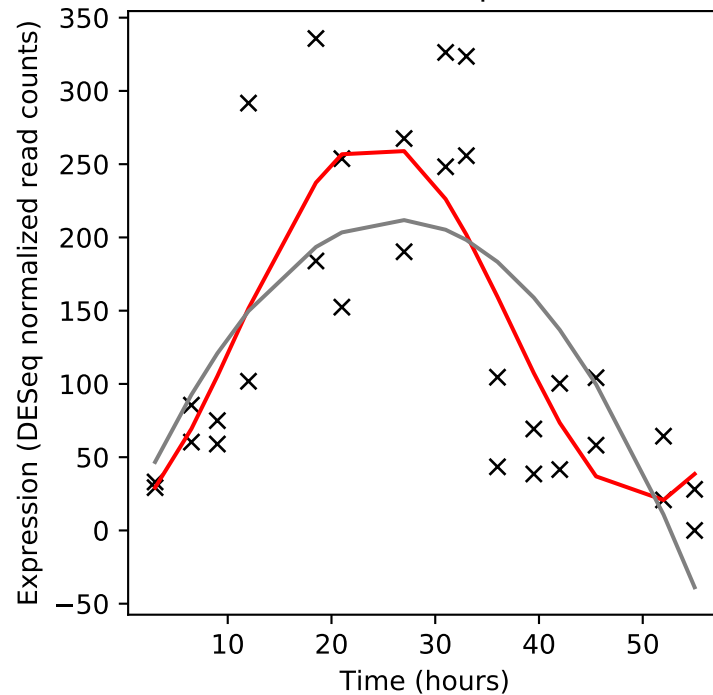
Rv1074c/fadA3



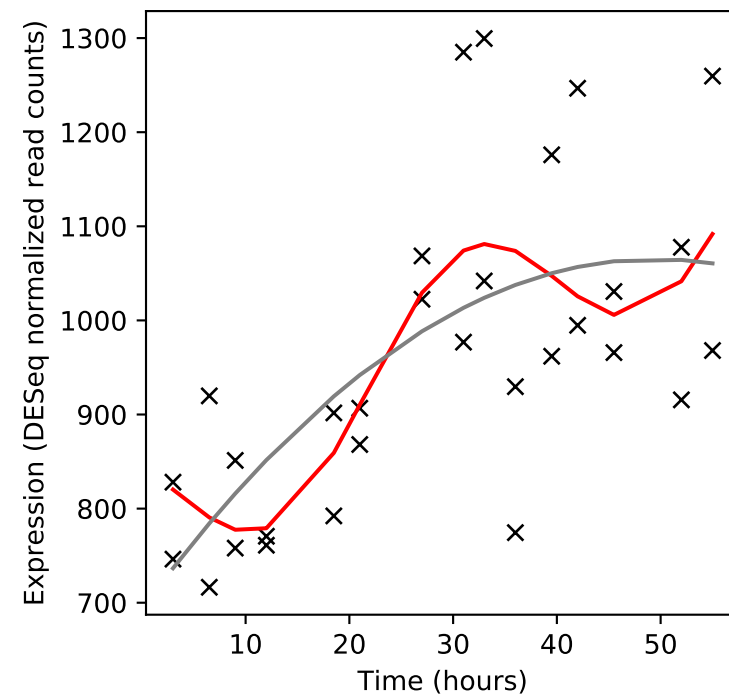
Rv1075c/-



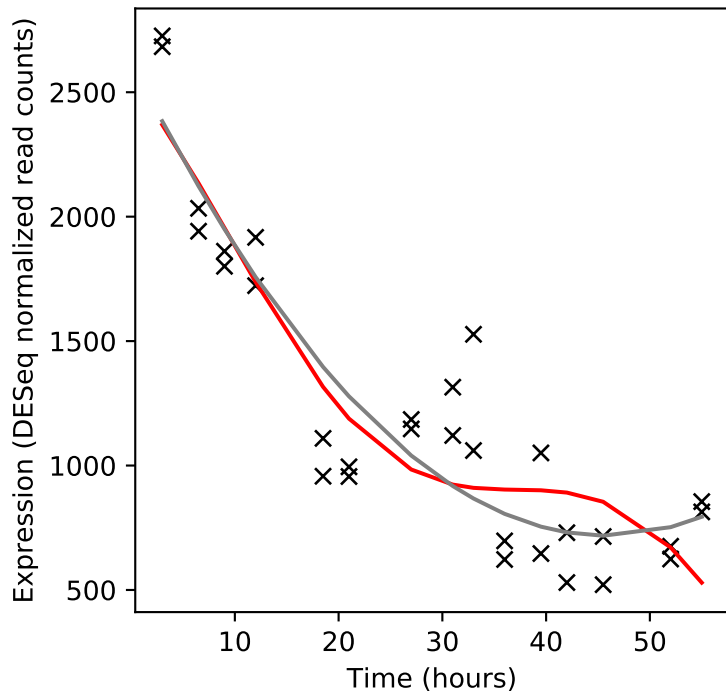
Rv1076/lipU



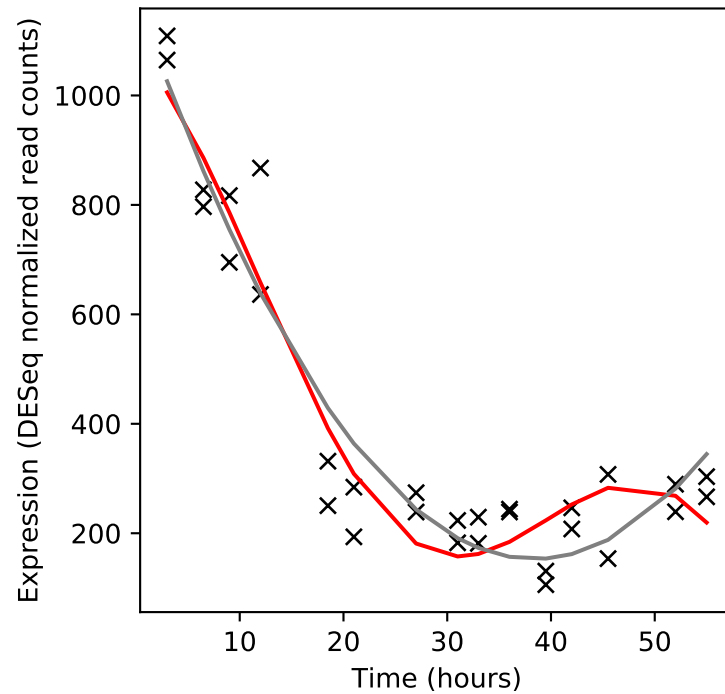
Rv1077/cbs



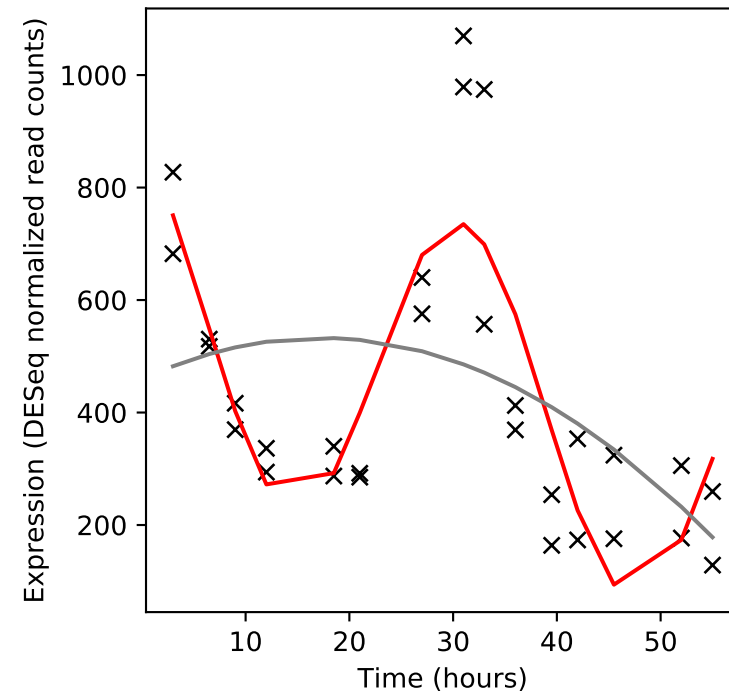
Rv1078/pra



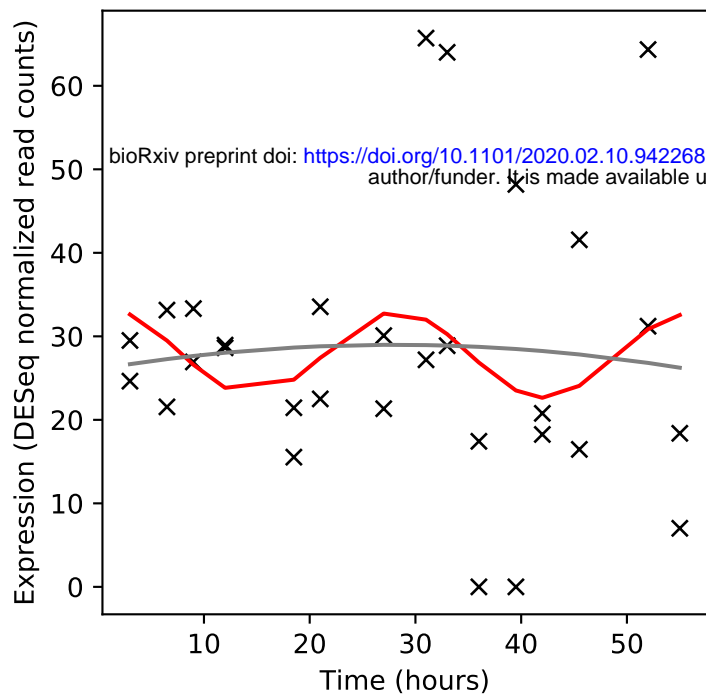
Rv1079/metB



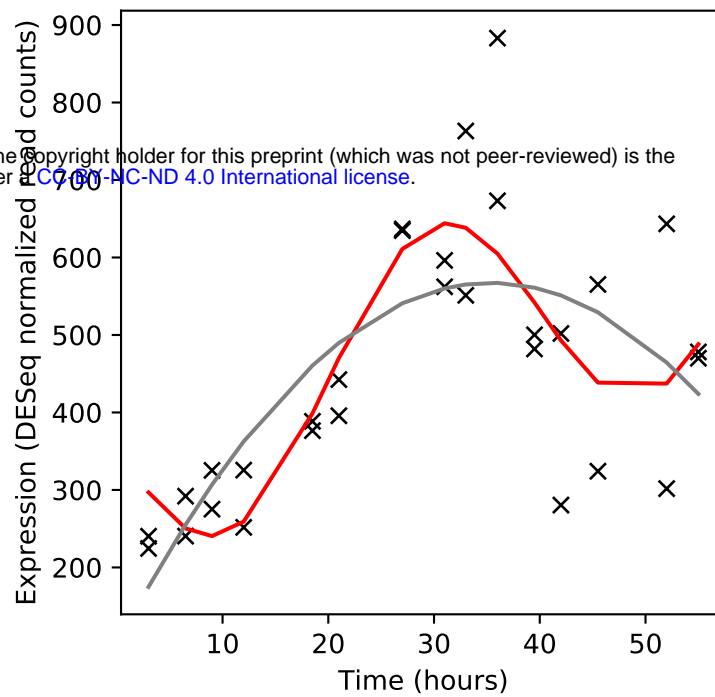
Rv1080c/greA



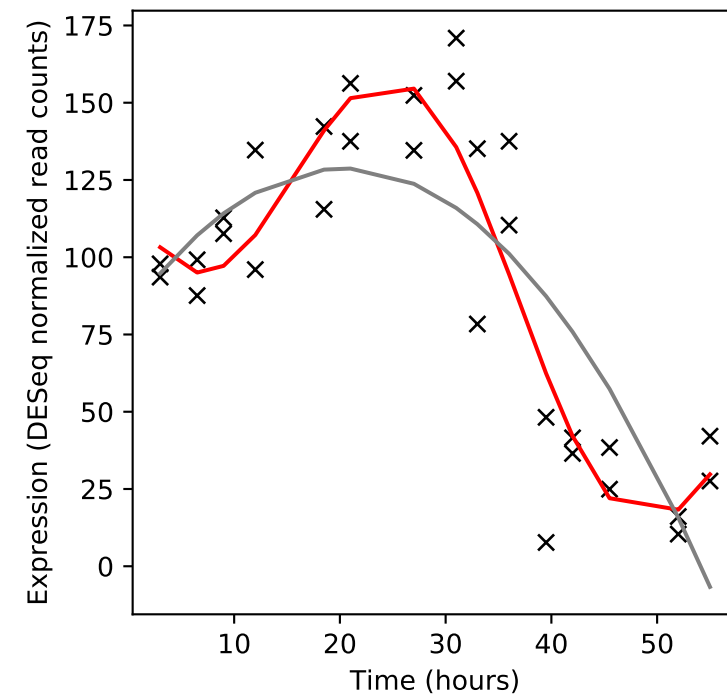
Rv1081c/-



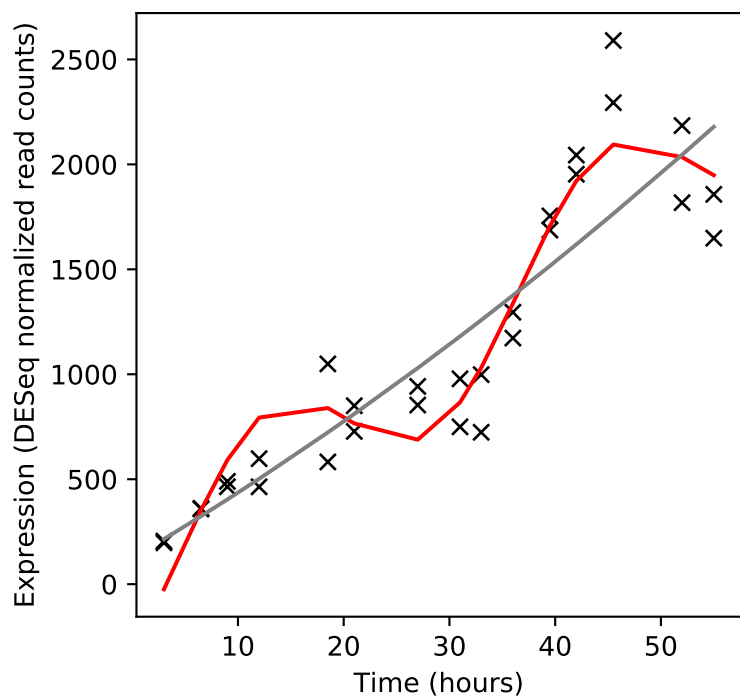
Rv1082/mca



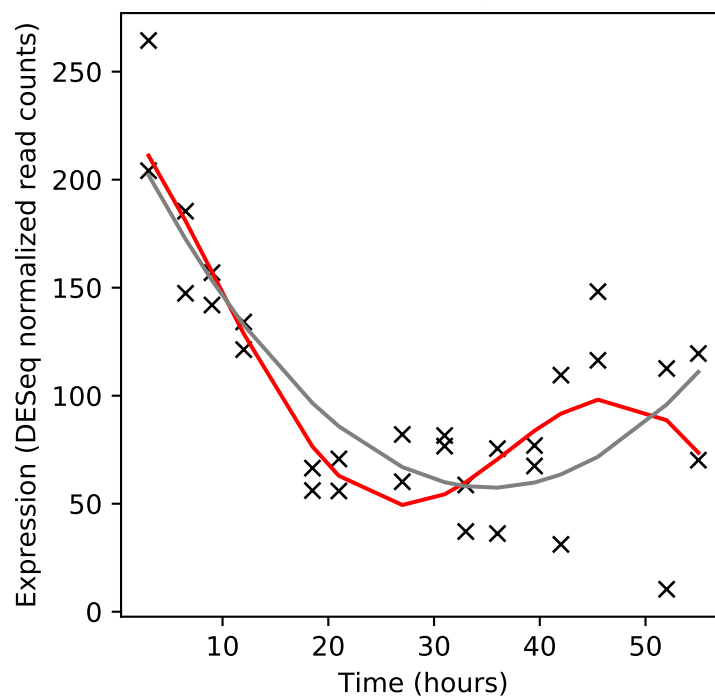
Rv1083/-



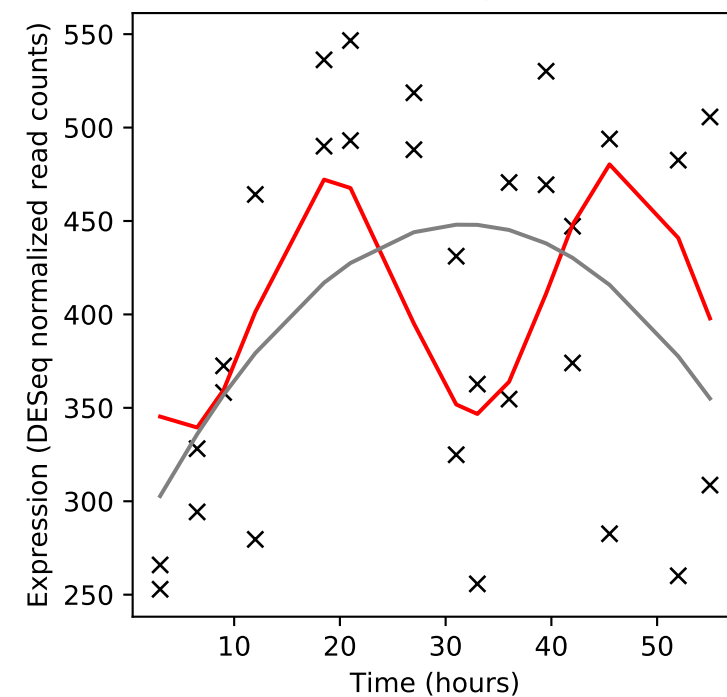
Rv1084/-



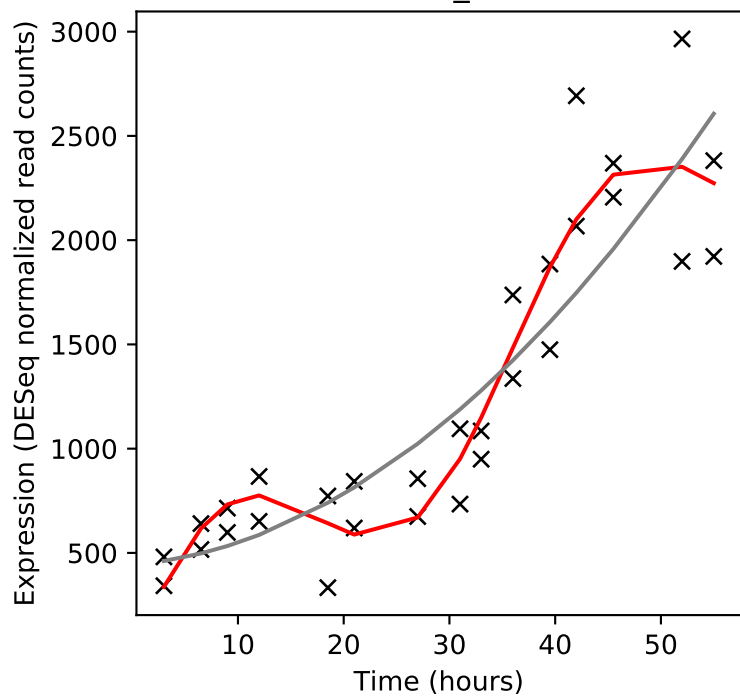
Rv1085c/-



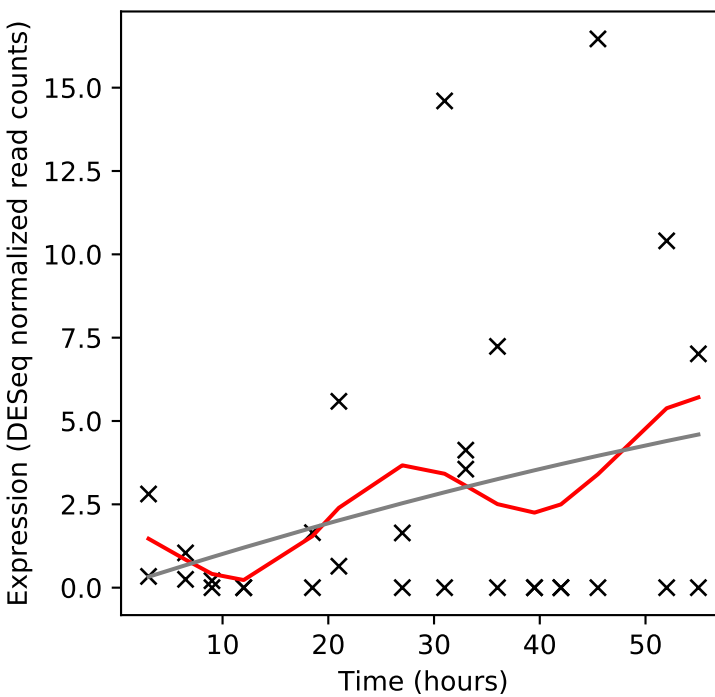
Rv1086/-



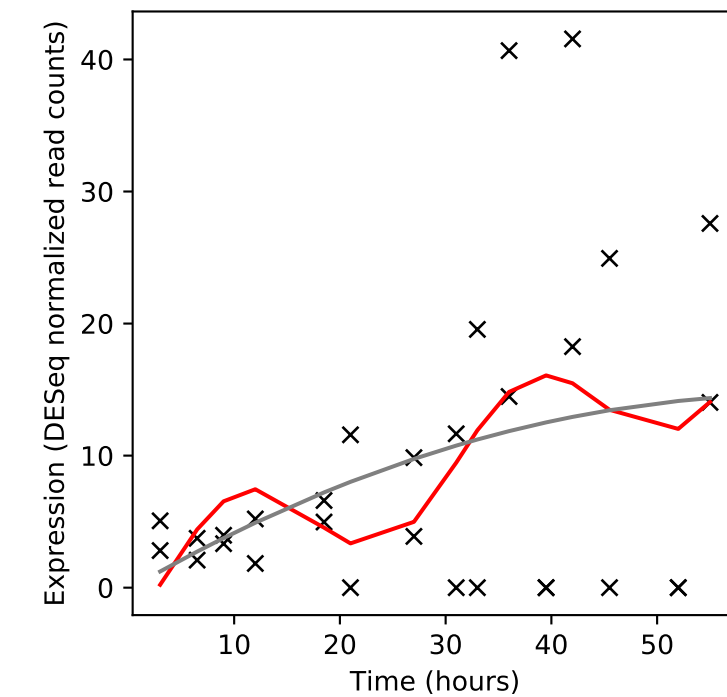
Rv1087/PE_PGRS21



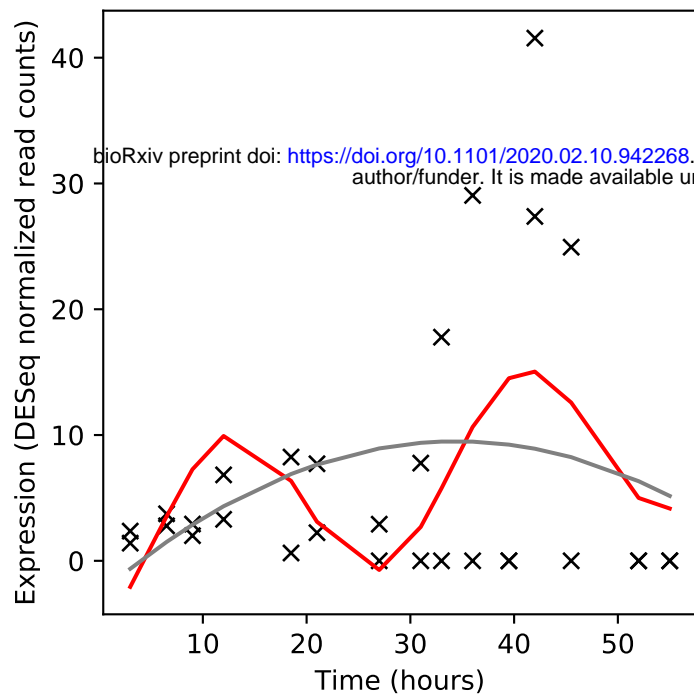
Rv1087A/-



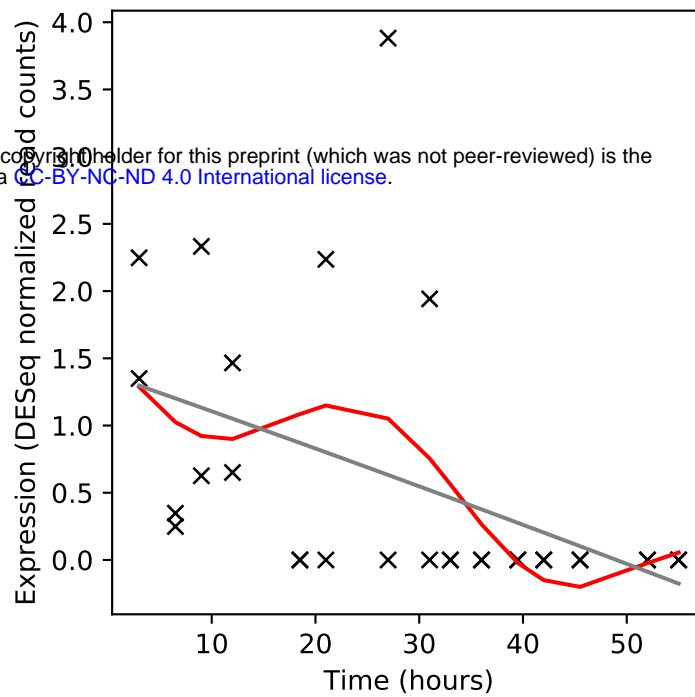
Rv1088/PE9



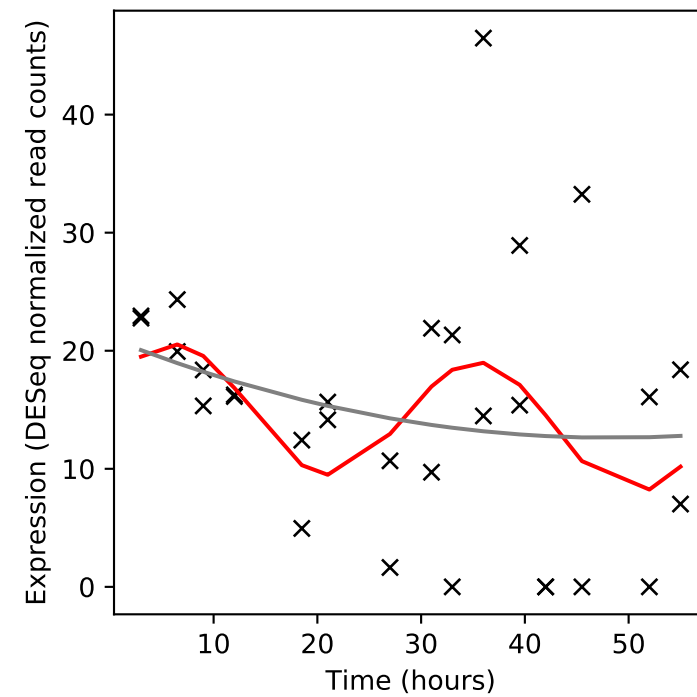
Rv1089/PE10



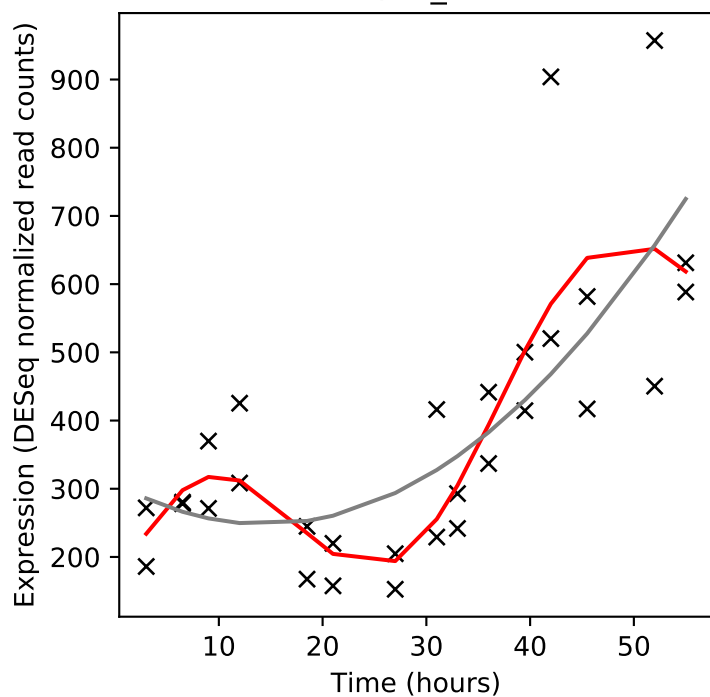
Rv1089A/celA2a



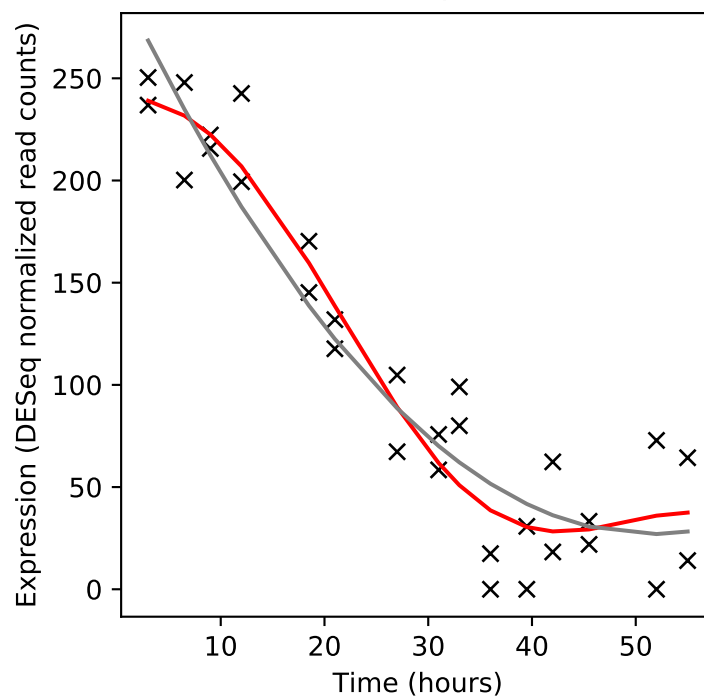
Rv1090/celA2b



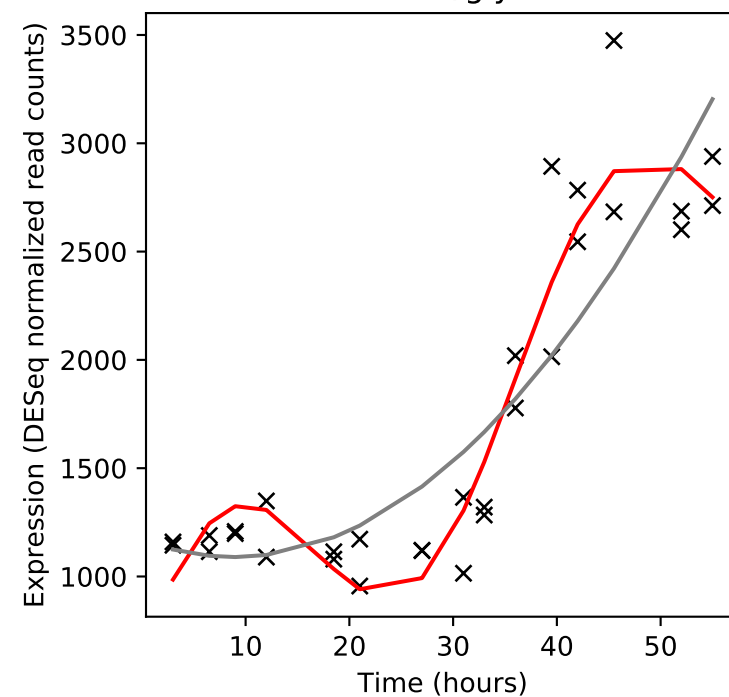
Rv1091/PE_PGRS22



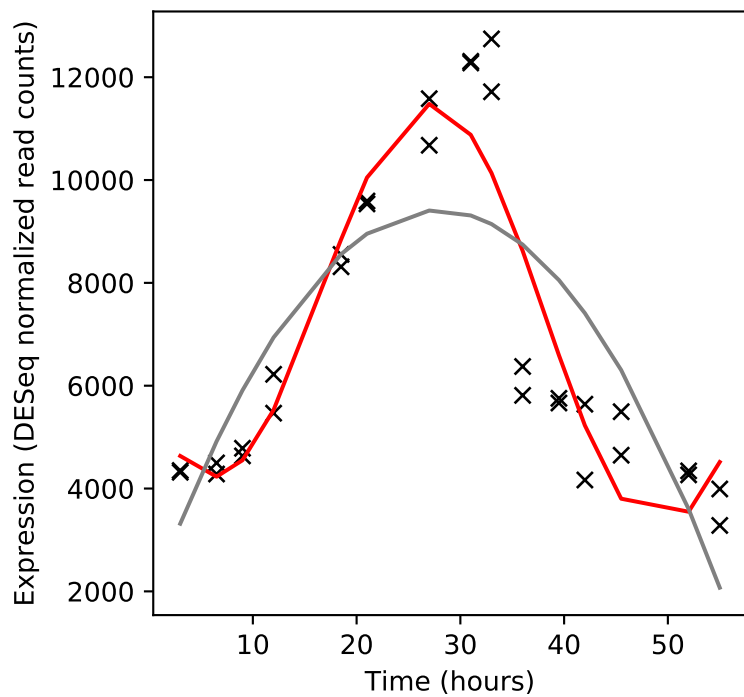
Rv1092c/coaA



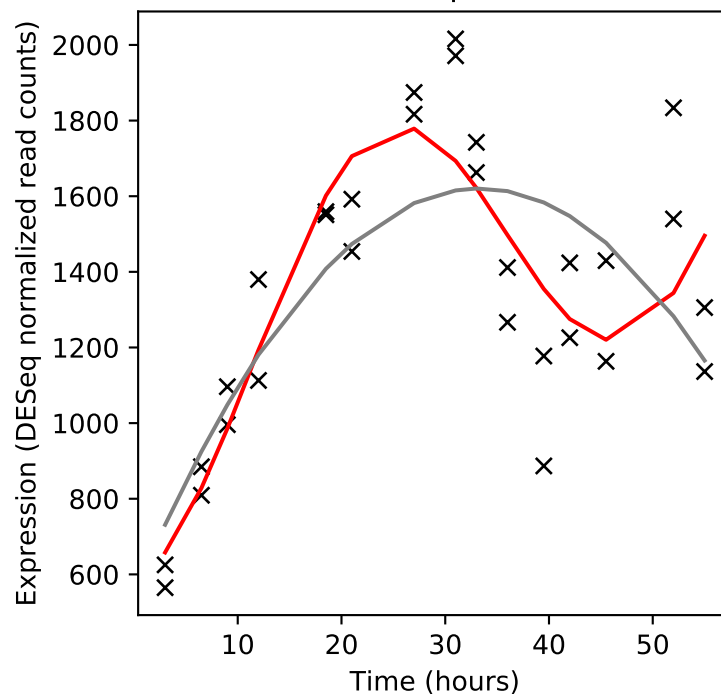
Rv1093/glyA1



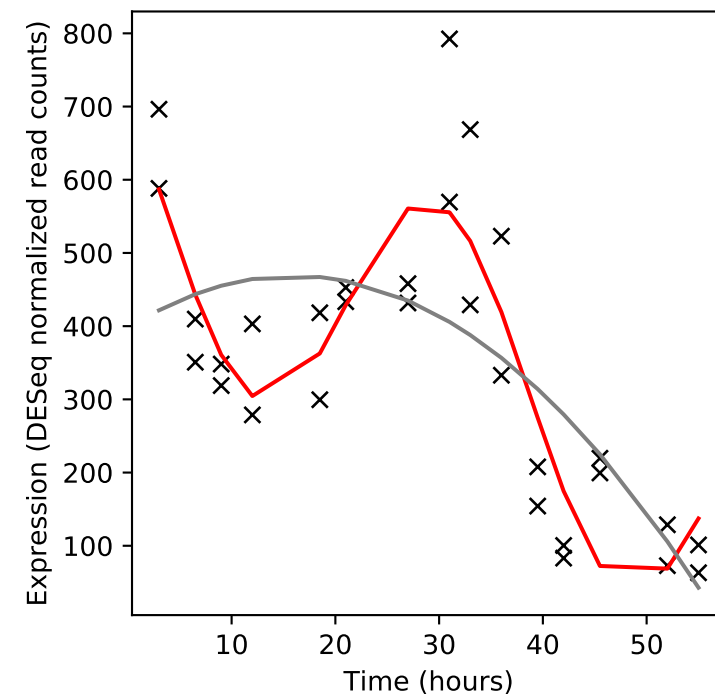
Rv1094/desA2



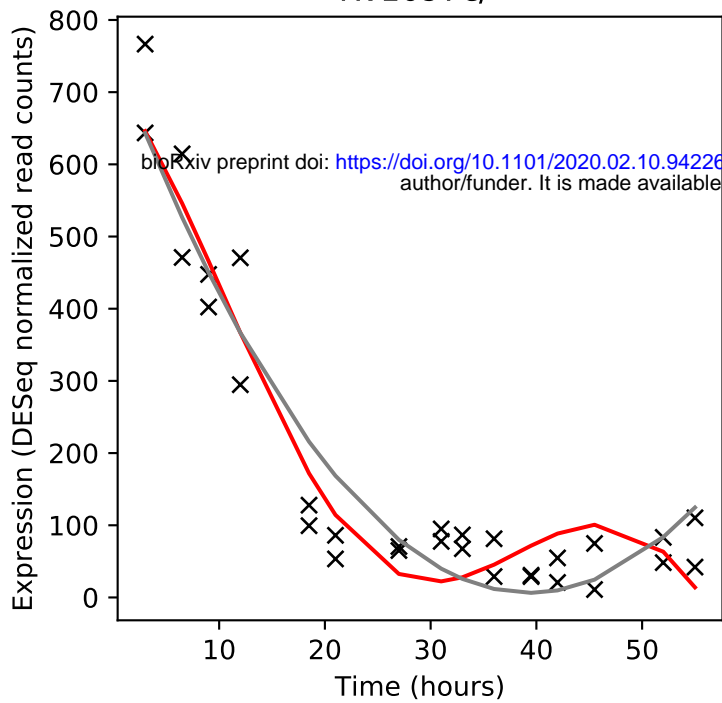
Rv1095/phoH2



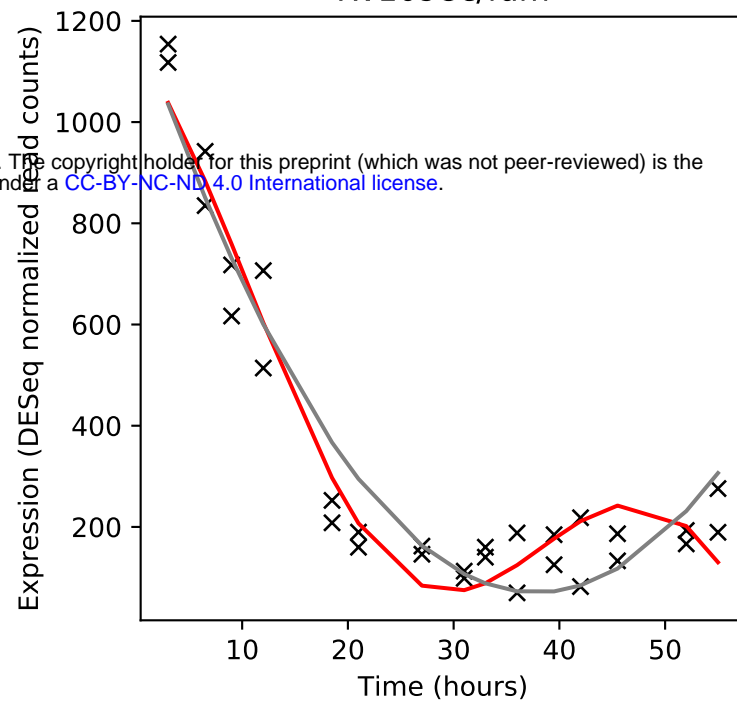
Rv1096/-



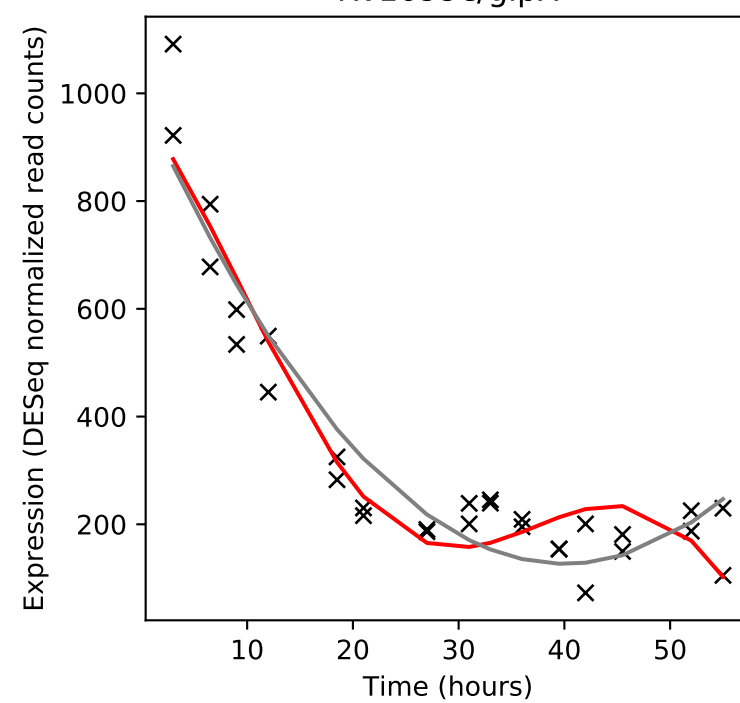
Rv1097c/-



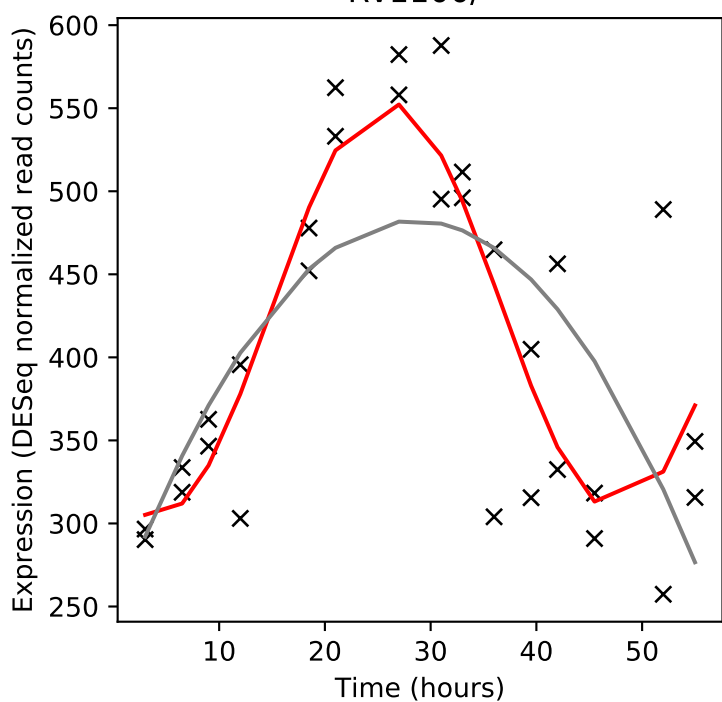
Rv1098c/fum



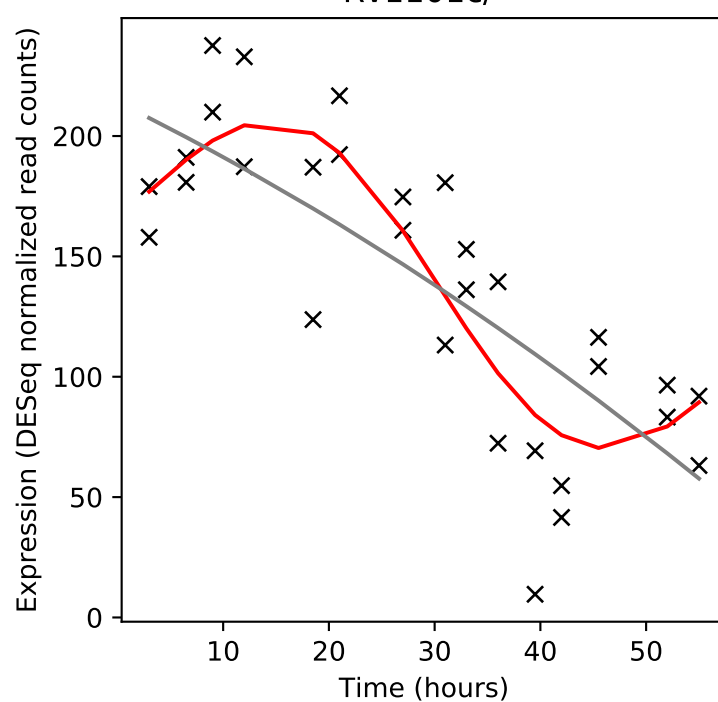
Rv1099c/glpX



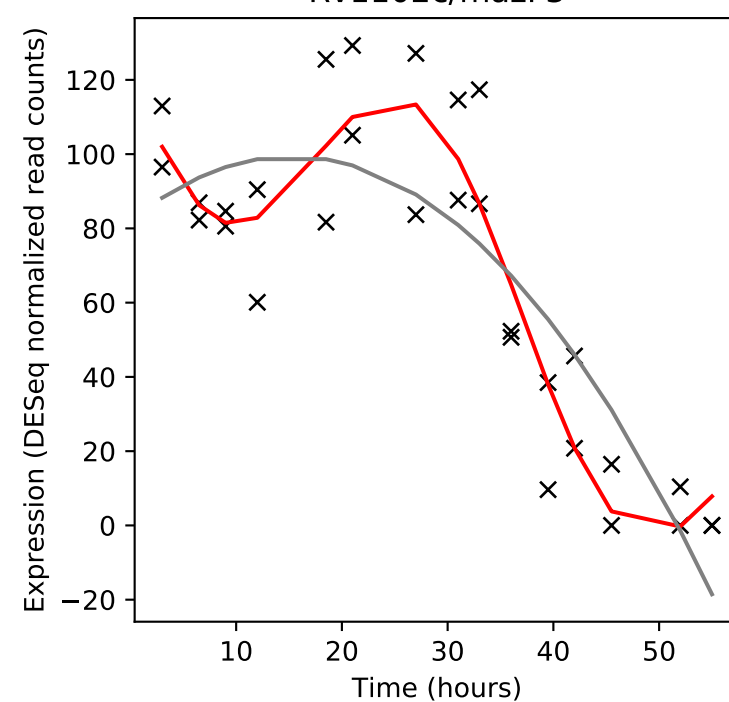
Rv1100/-



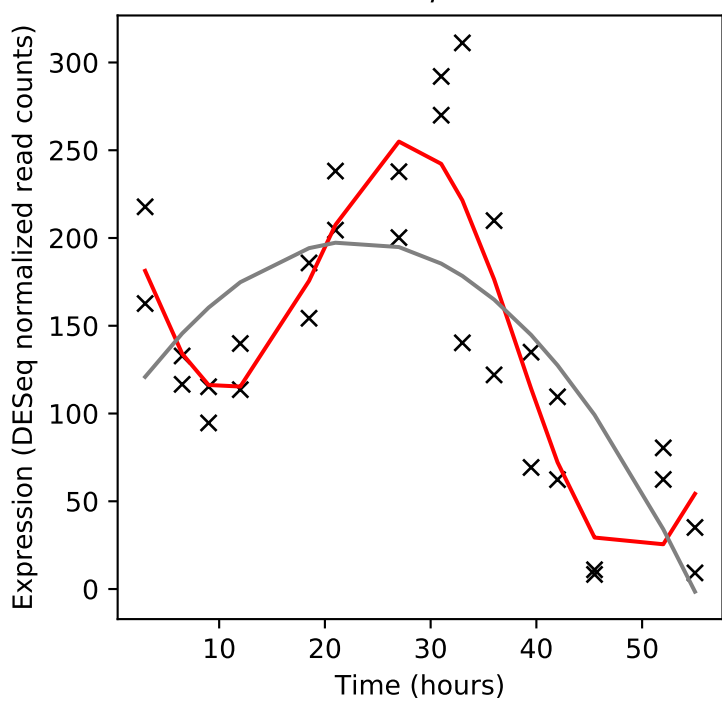
Rv1101c/-



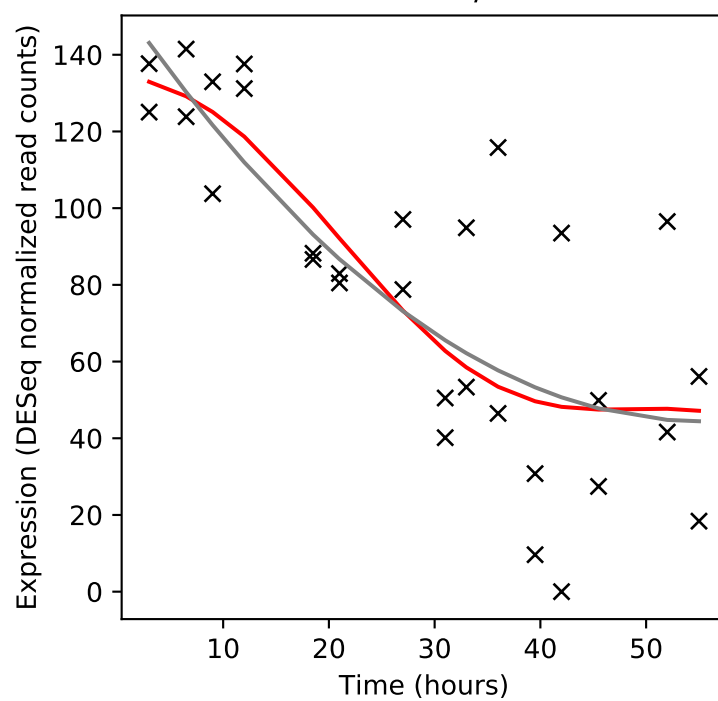
Rv1102c/mazF3



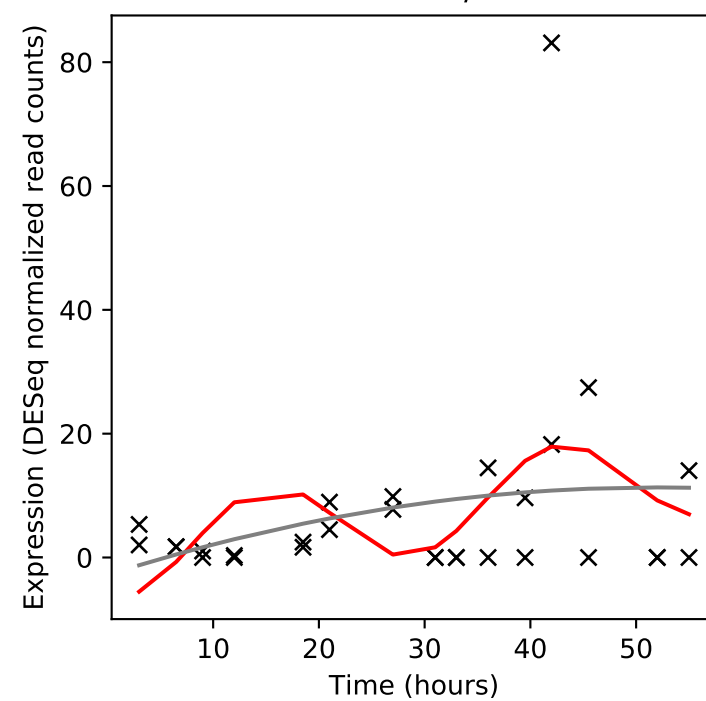
Rv1103c/mazE3



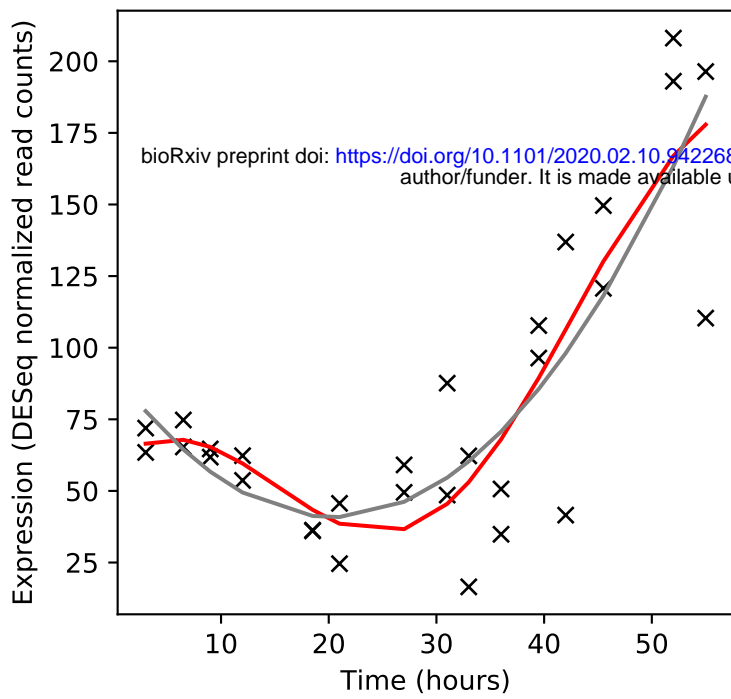
Rv1104/-



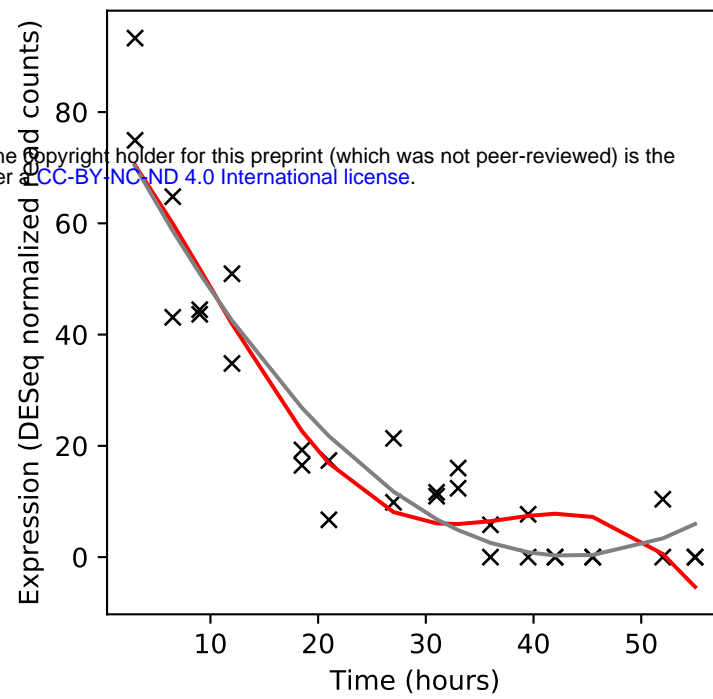
Rv1105/-



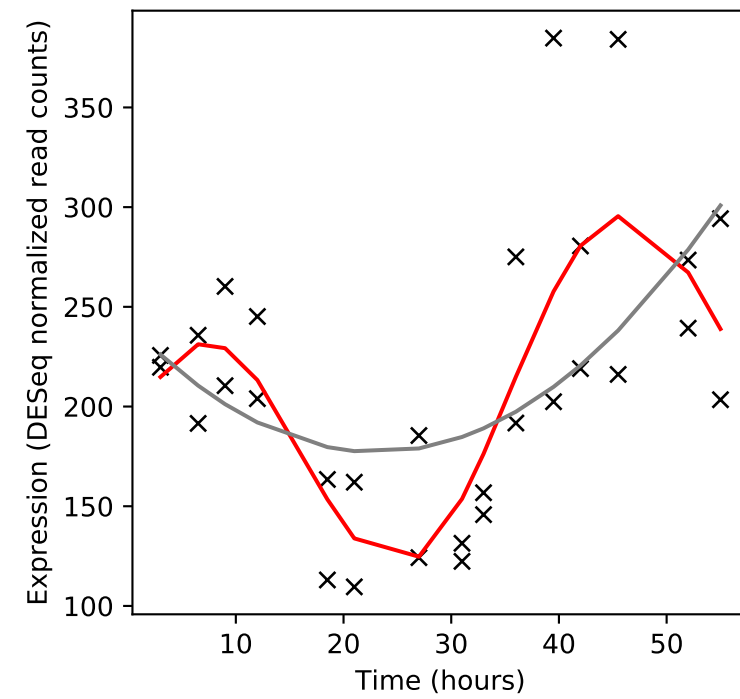
Rv1106c/-



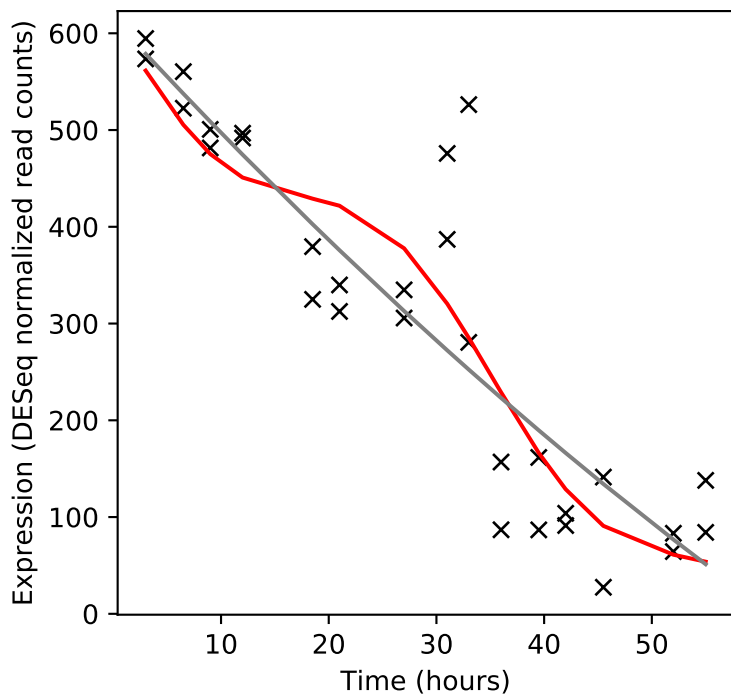
Rv1107c/xseB



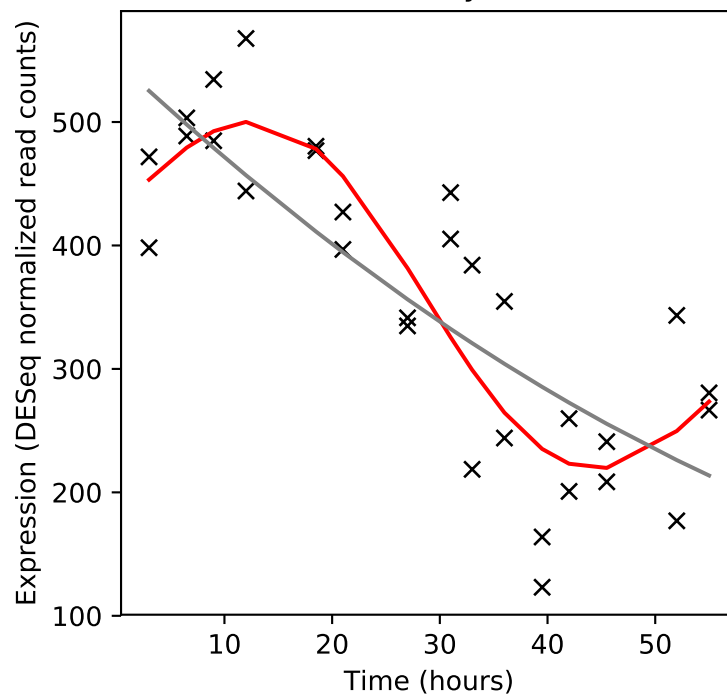
Rv1108c/xseA



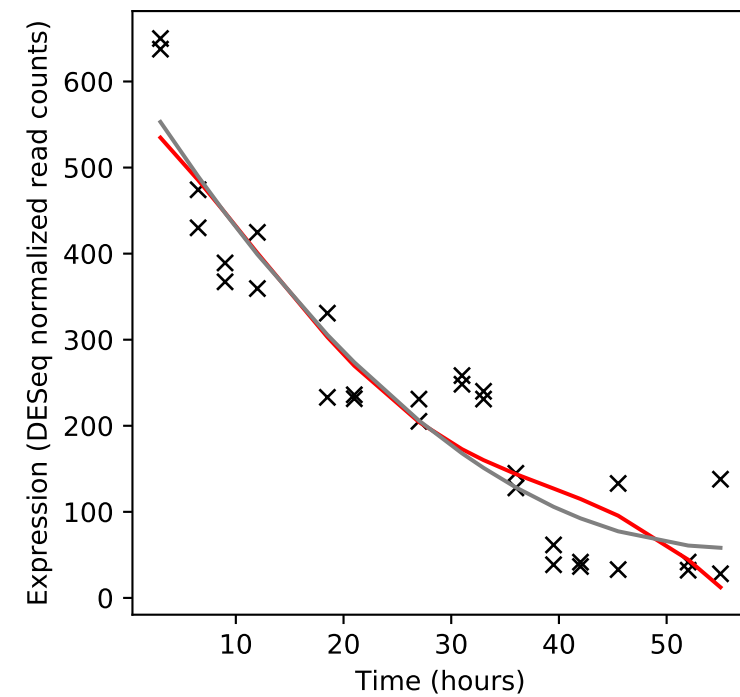
Rv1109c/-



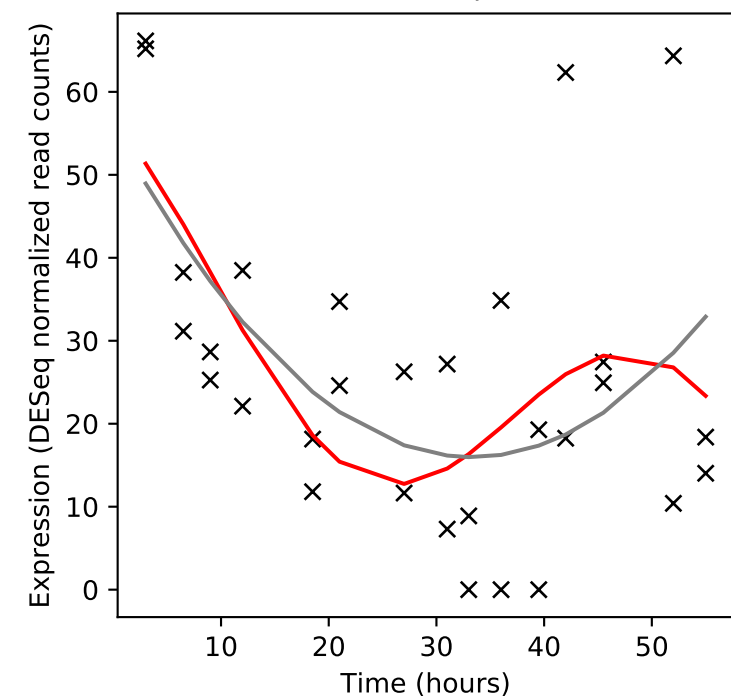
Rv1110/lytB2



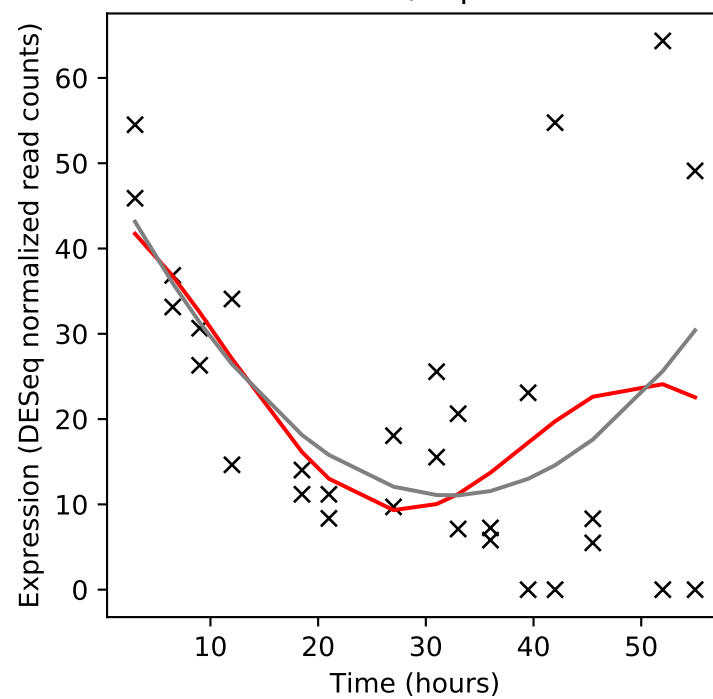
Rv1111c/-



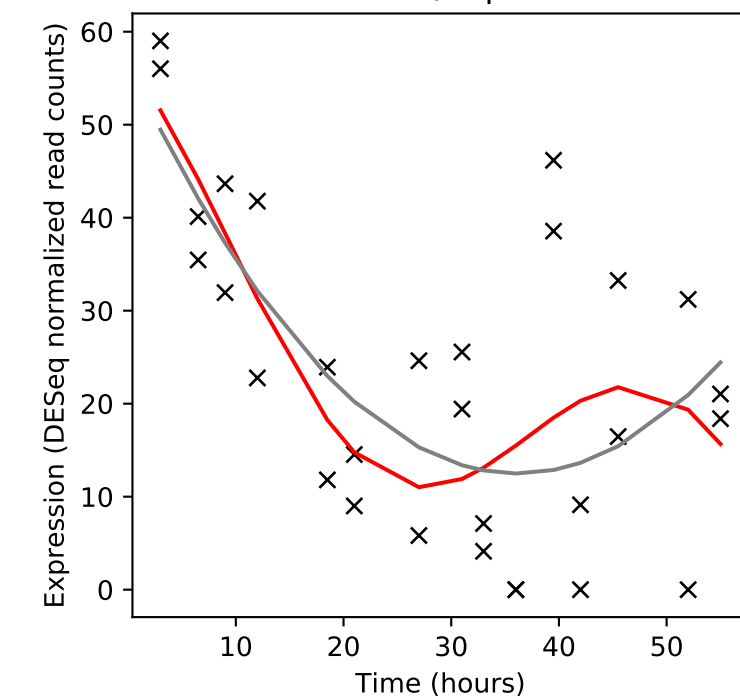
Rv1112/-



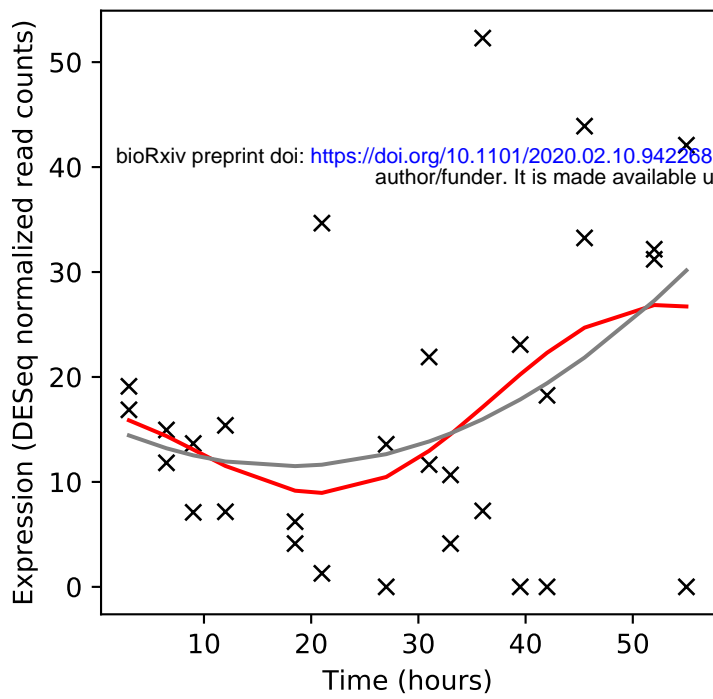
Rv1113/vapB32



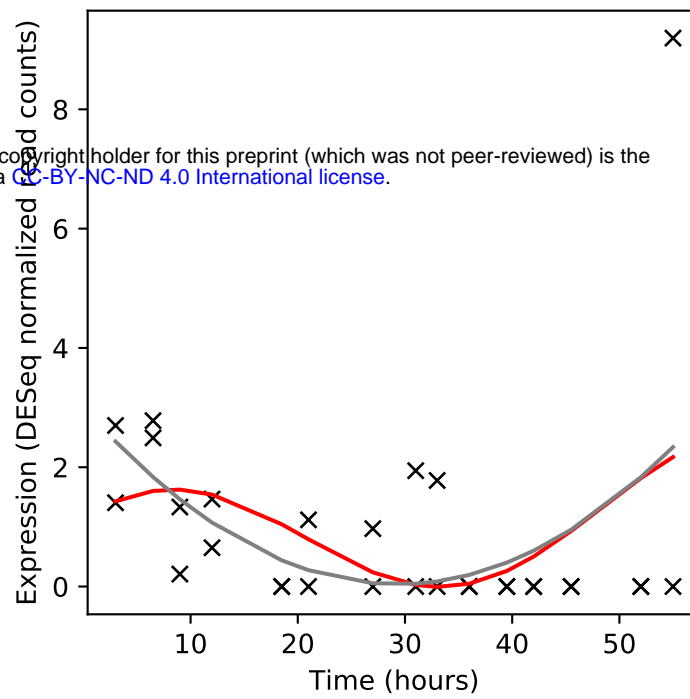
Rv1114/vapC32



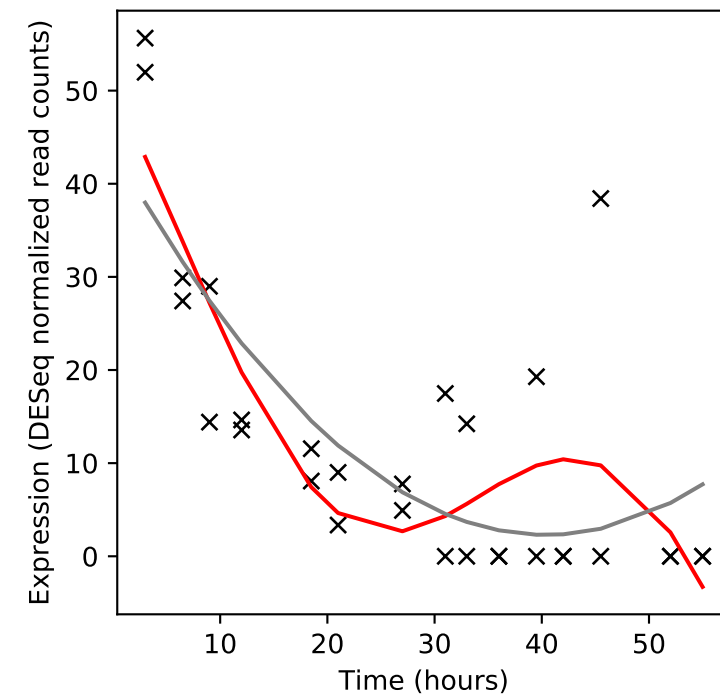
Rv1115/-



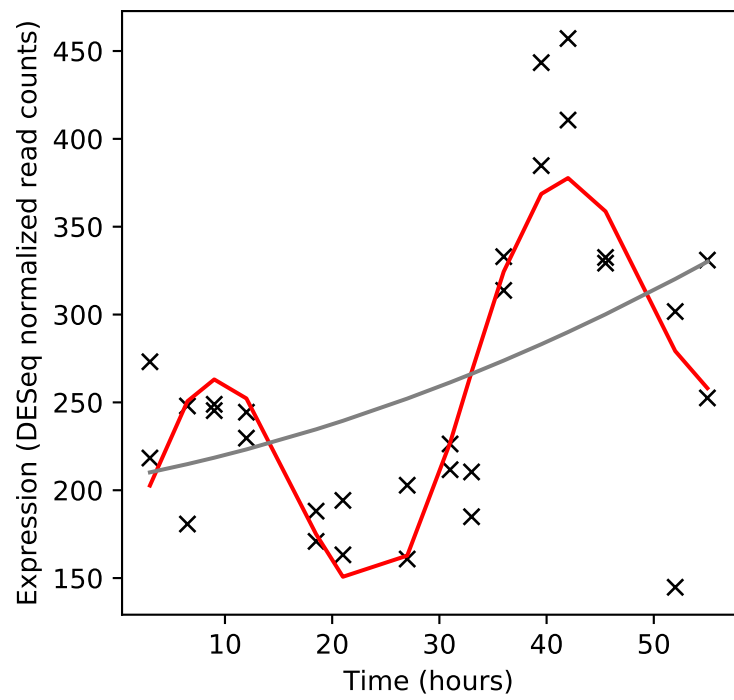
Rv1116/-



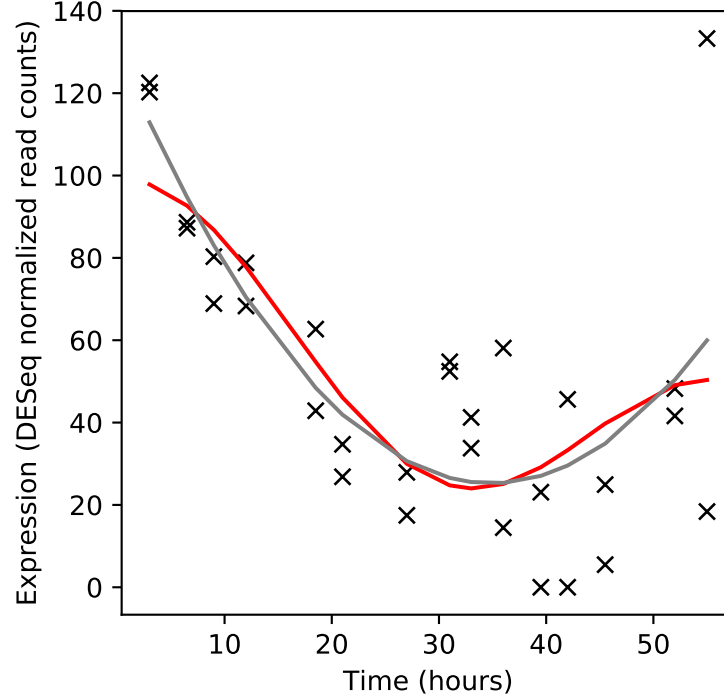
Rv1116A/-



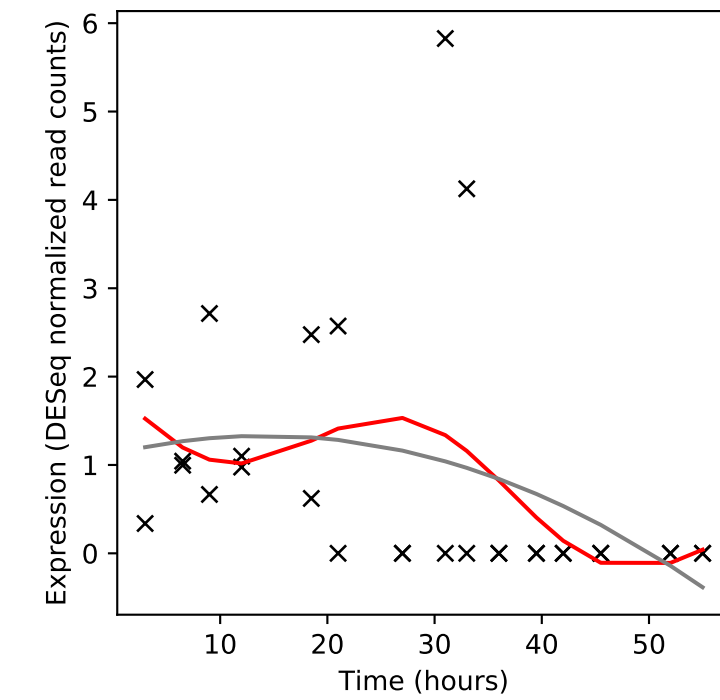
Rv1117/-



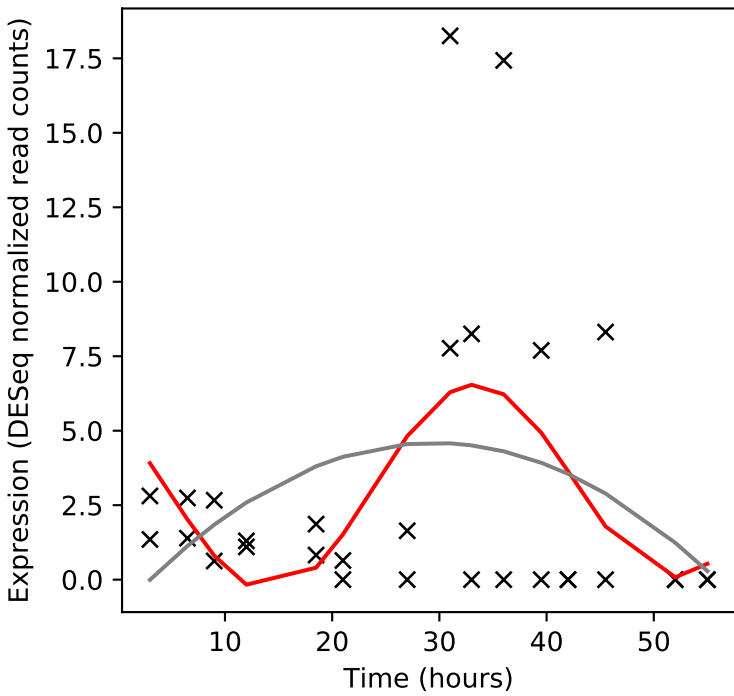
Rv1118c/-



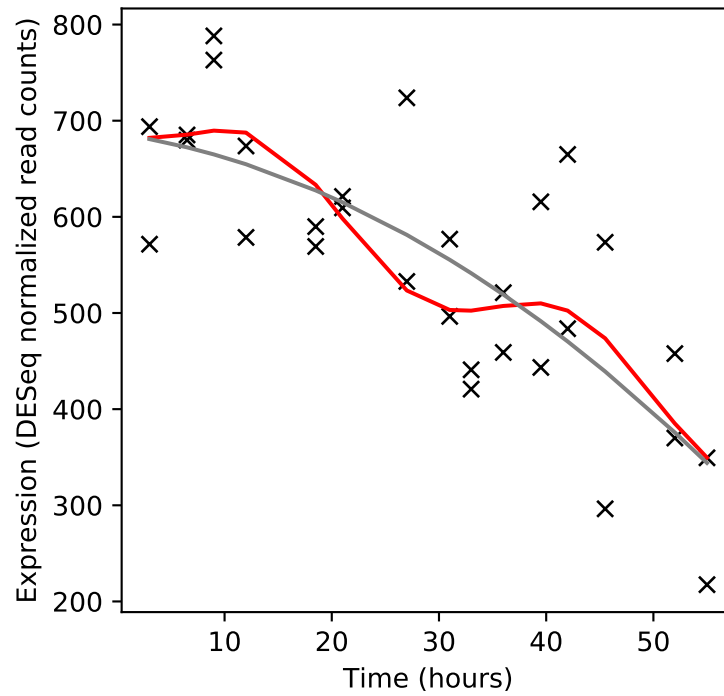
Rv1119c/-



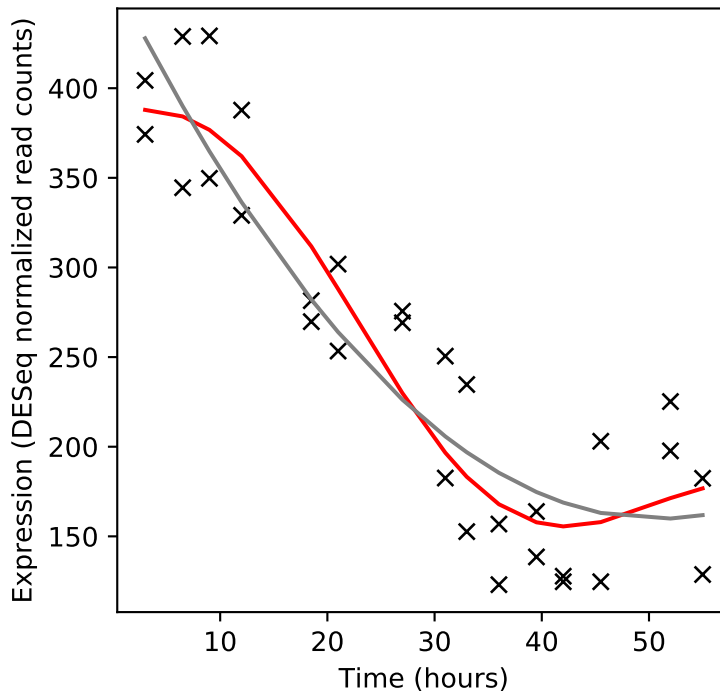
Rv1120c/-



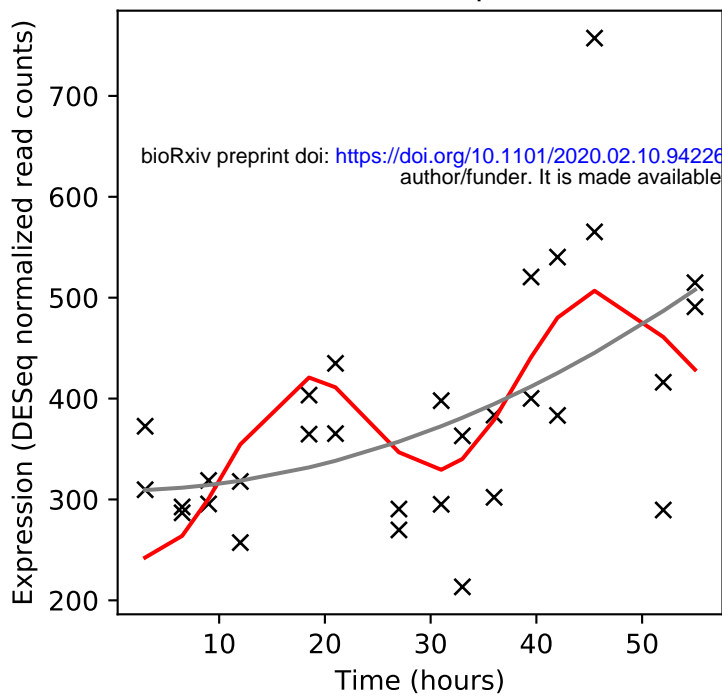
Rv1121/zwf1



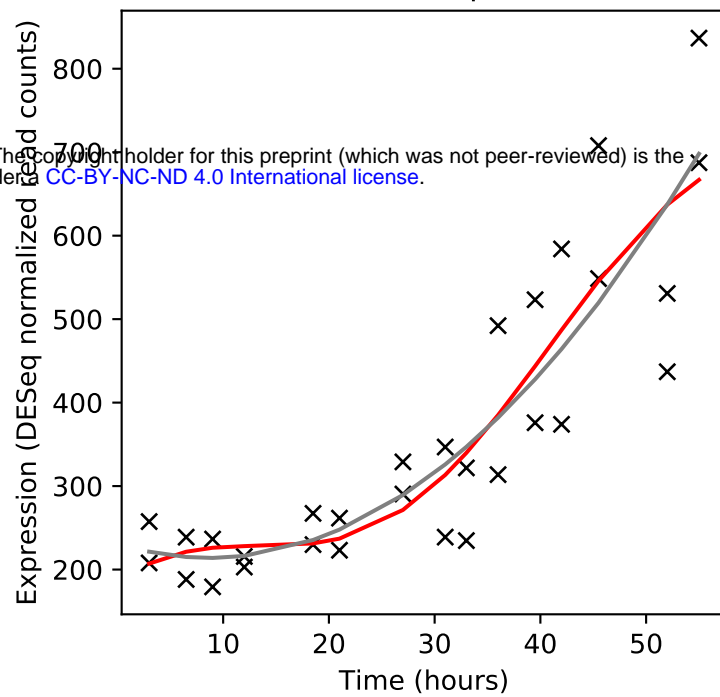
Rv1122/gnd2



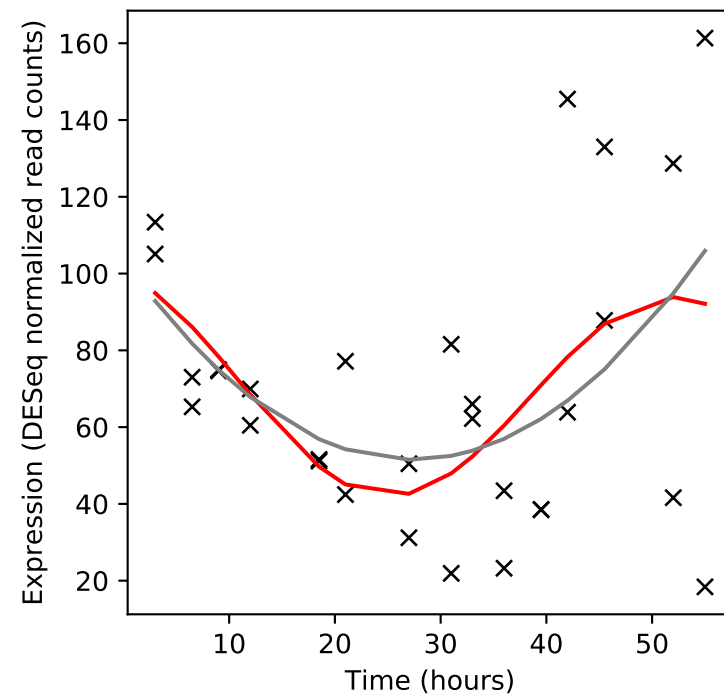
Rv1123c/bpoB



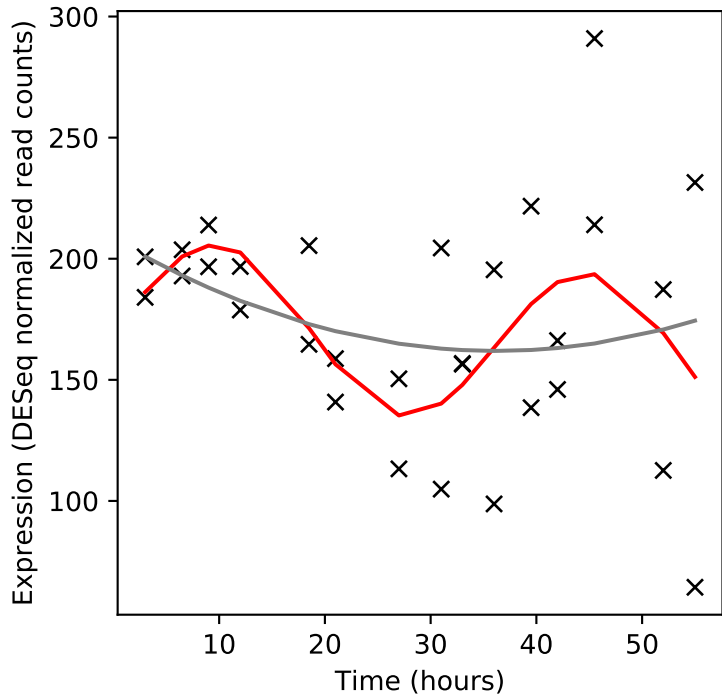
Rv1124/ephC



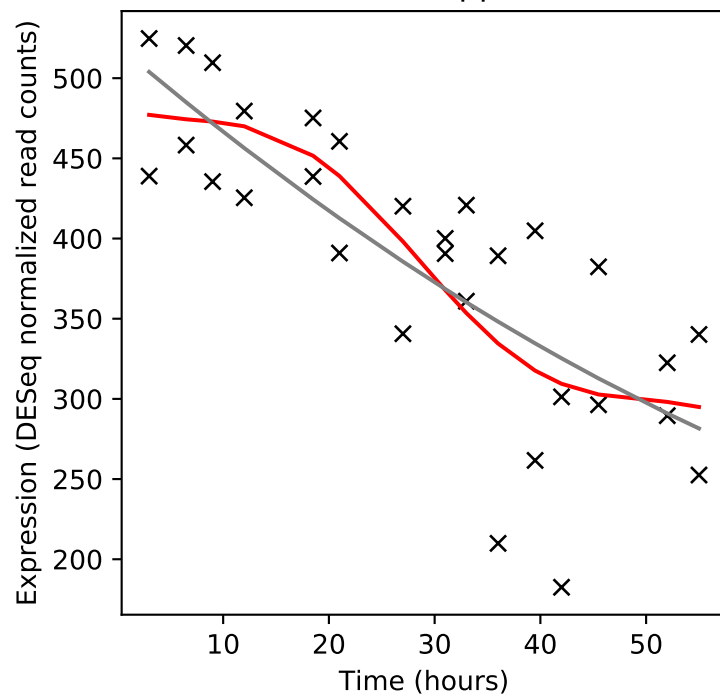
Rv1125/-



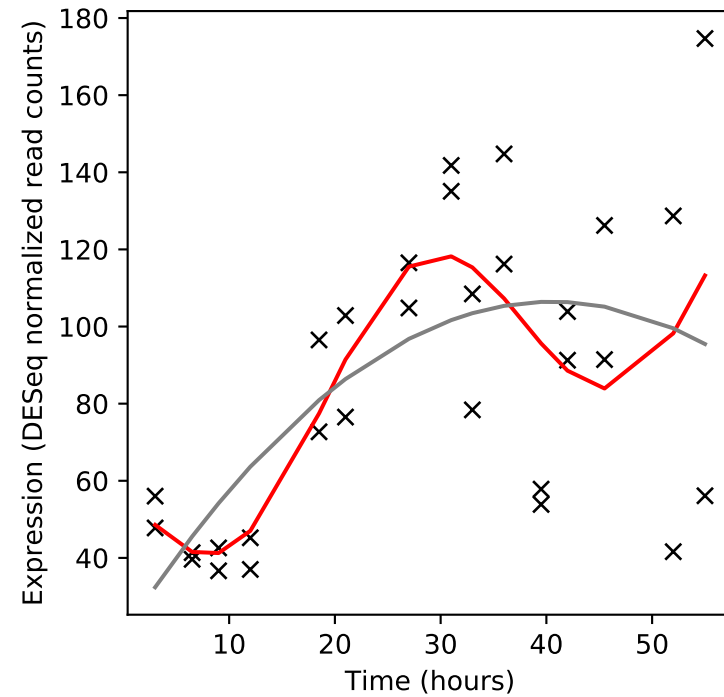
Rv1126c/-



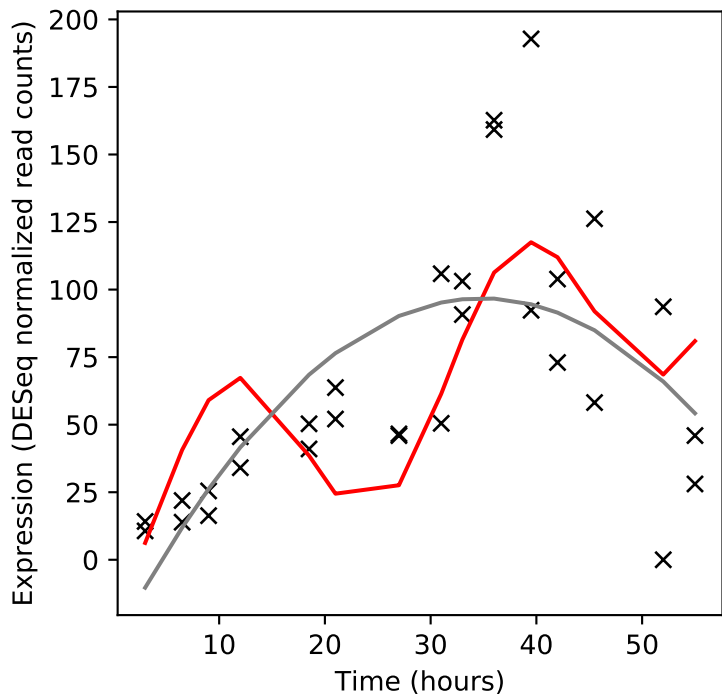
Rv1127c/ppdK



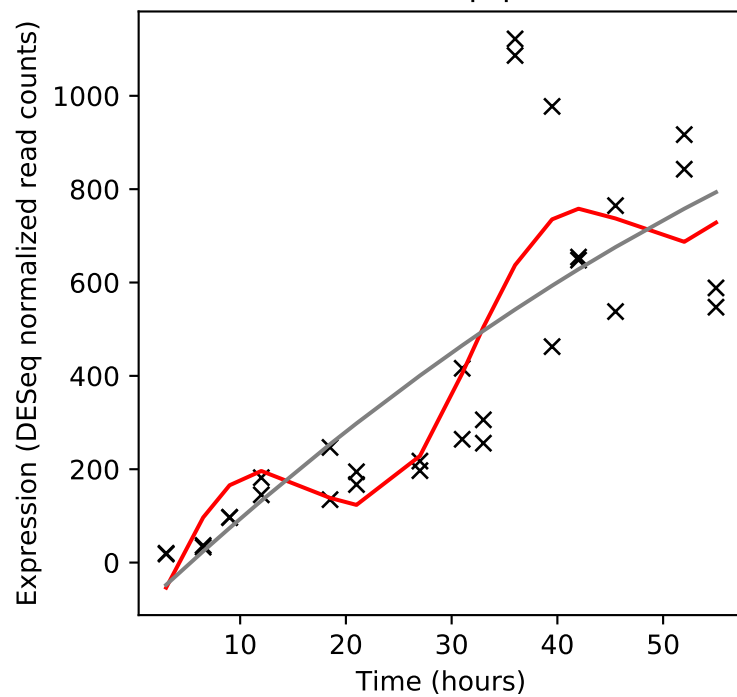
Rv1128c/-



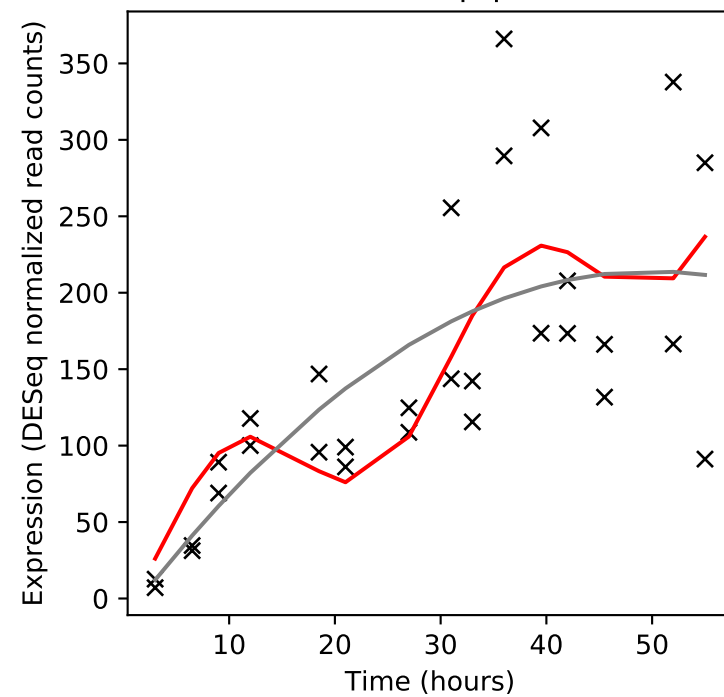
Rv1129c/-



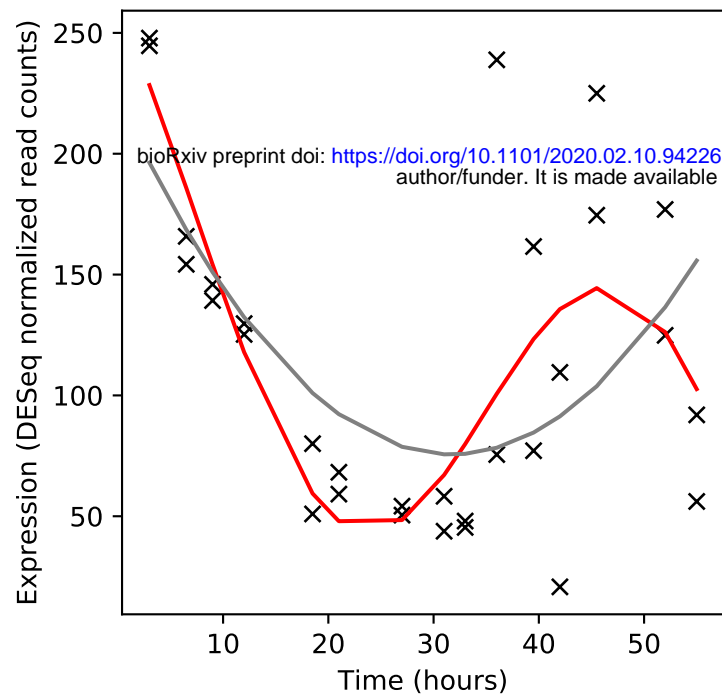
Rv1130/prpD



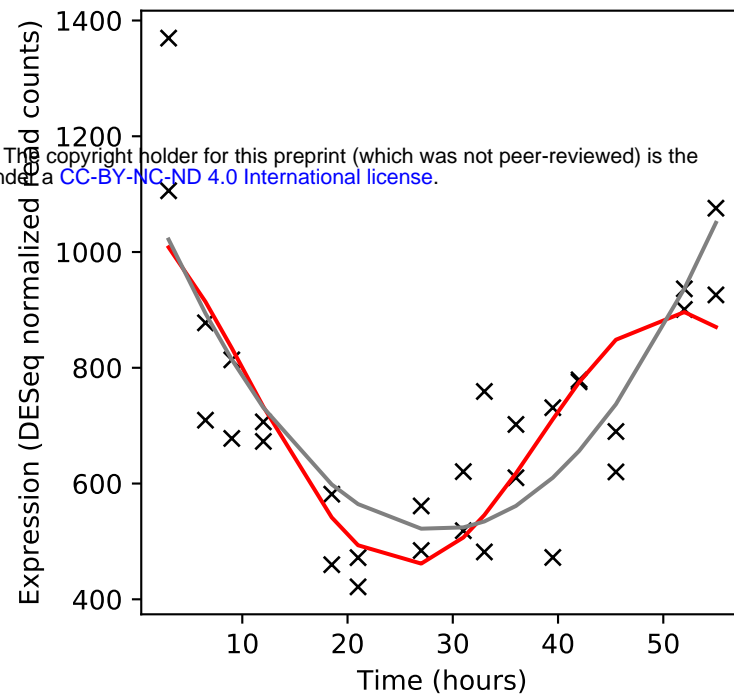
Rv1131/prpC



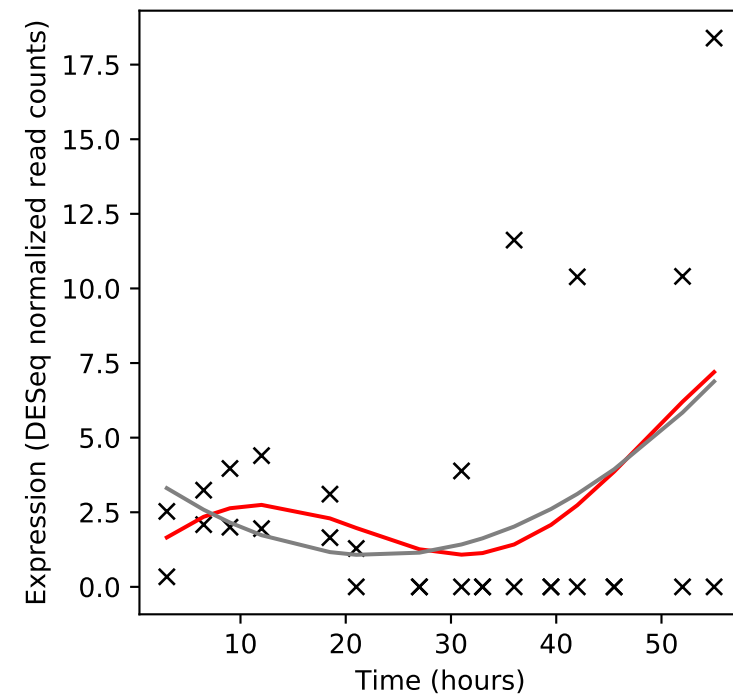
Rv1132/-



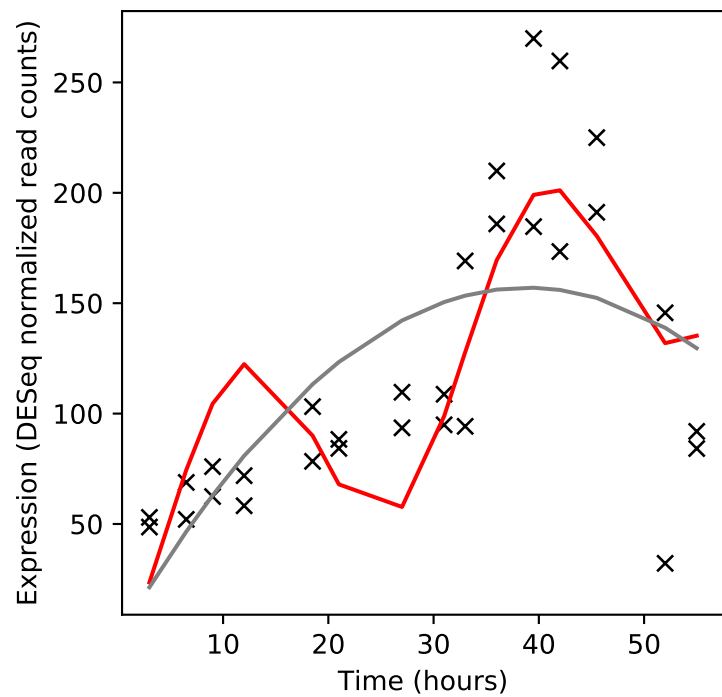
Rv1133c/metE



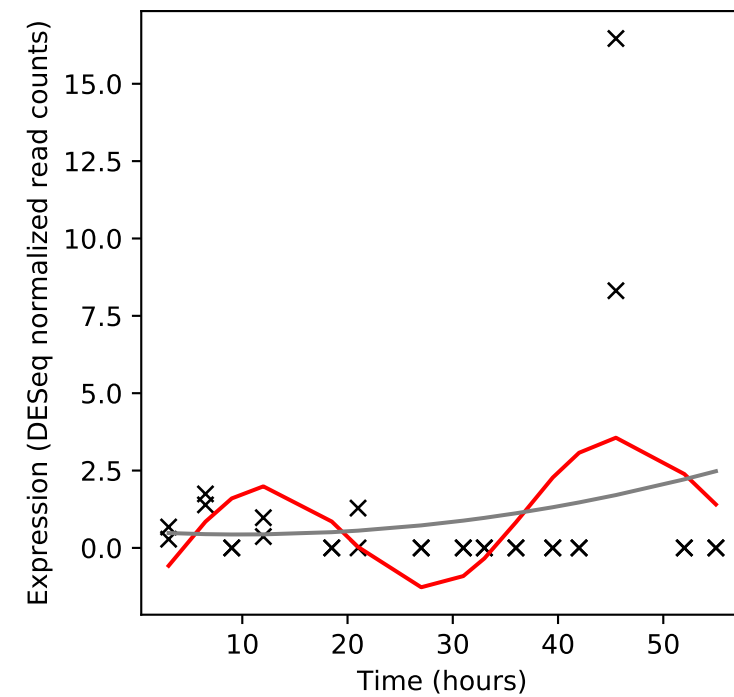
Rv1134/-



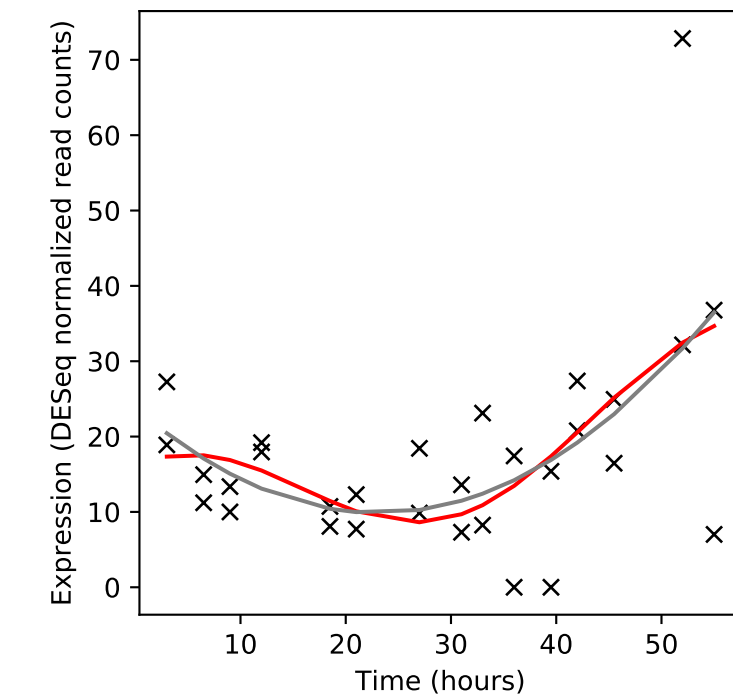
Rv1135c/PPE16



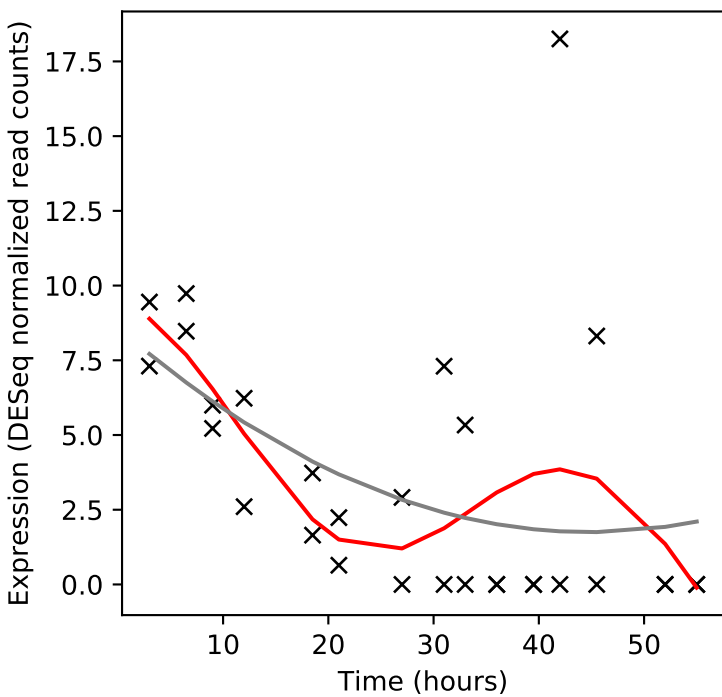
Rv1135A/-



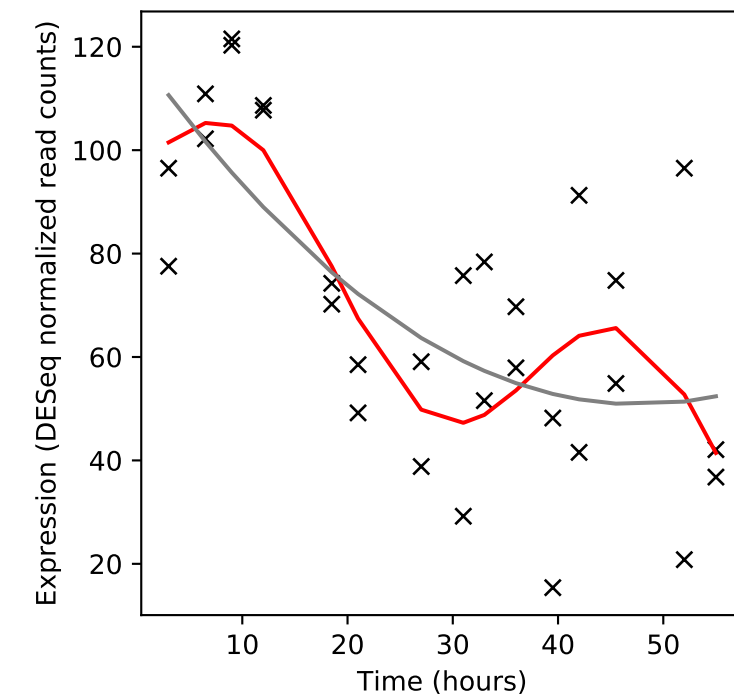
Rv1136/-



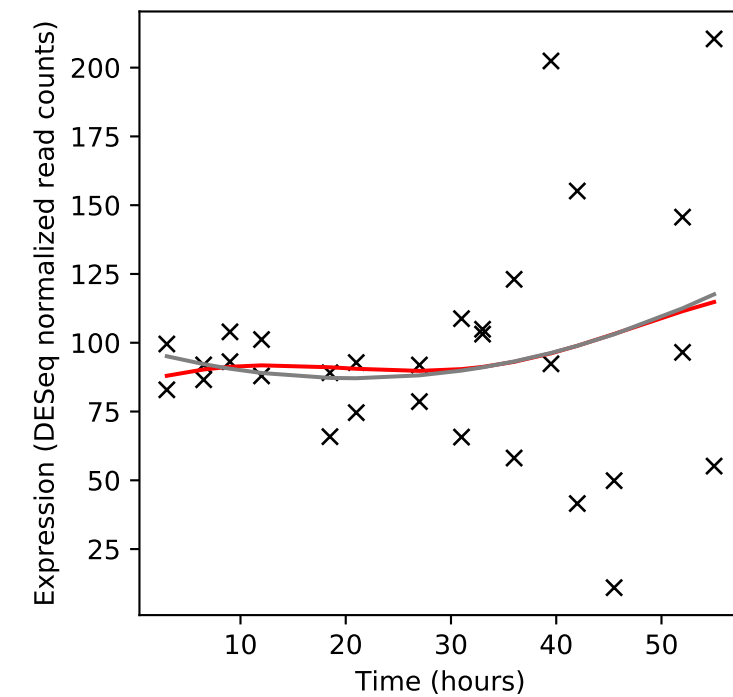
Rv1137c/-



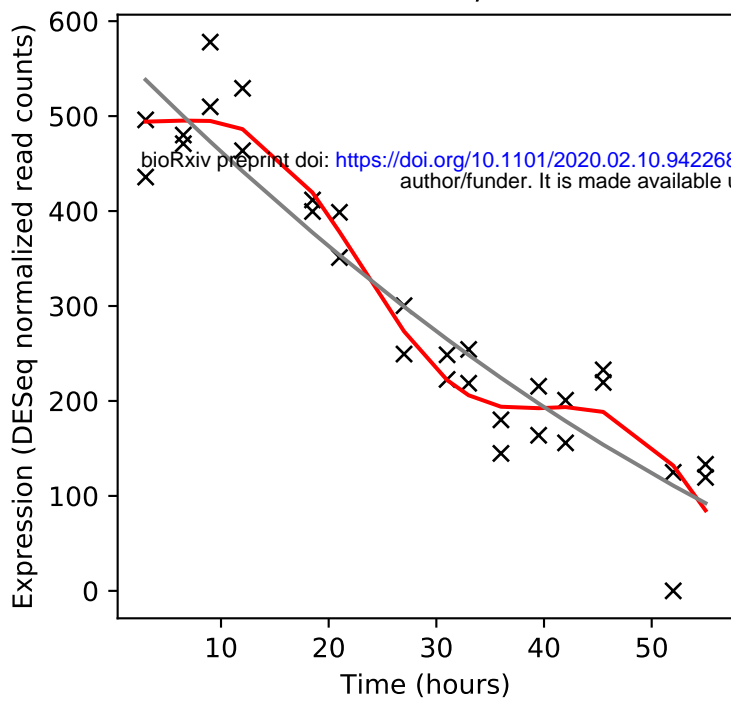
Rv1138c/-



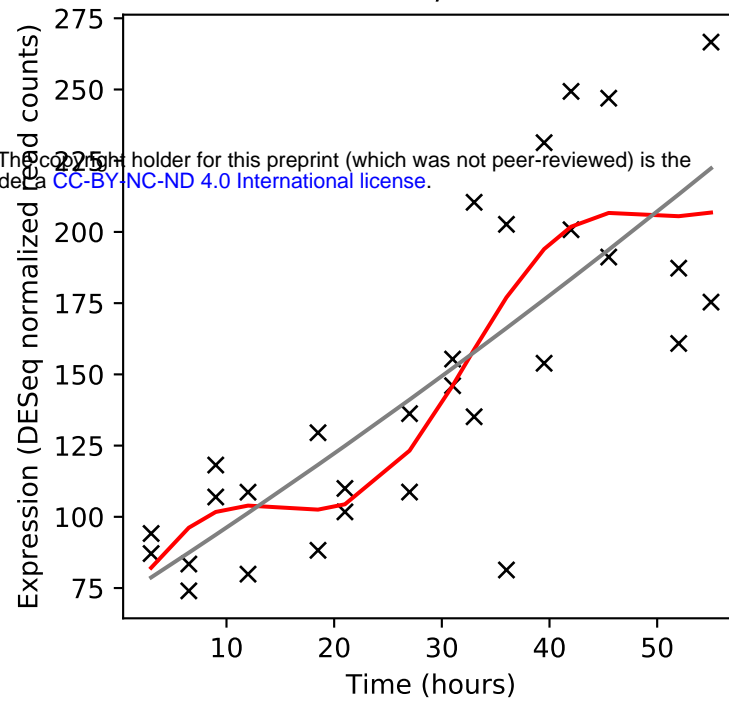
Rv1139c/-



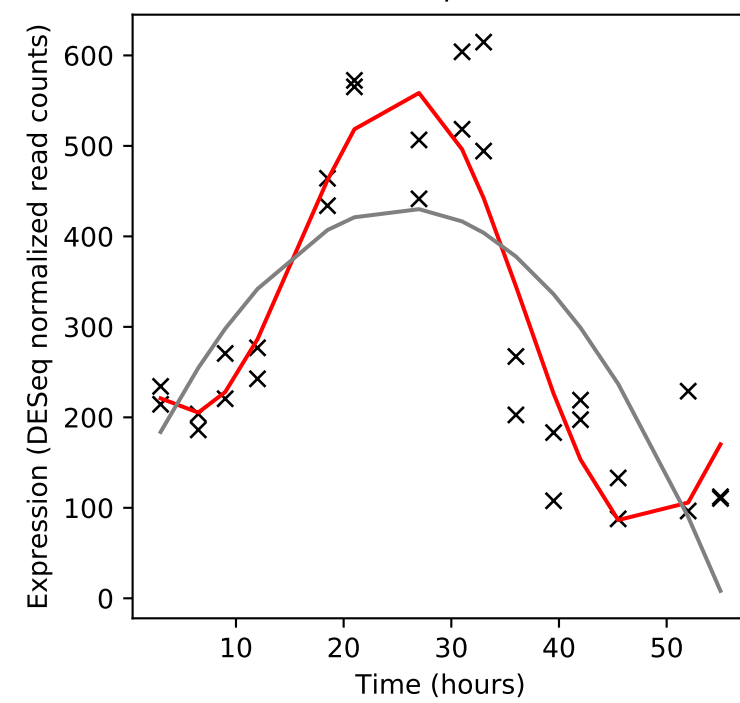
Rv1140/-



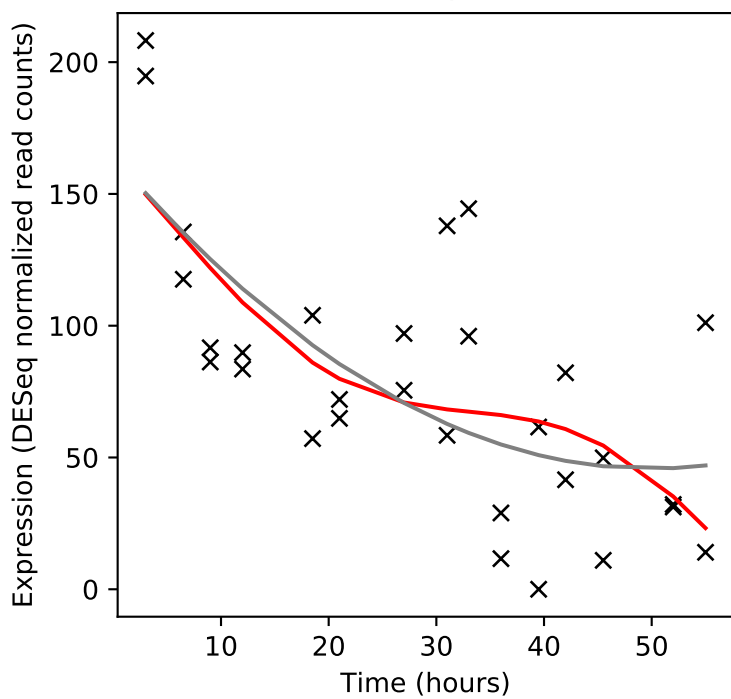
Rv1141c/echA11



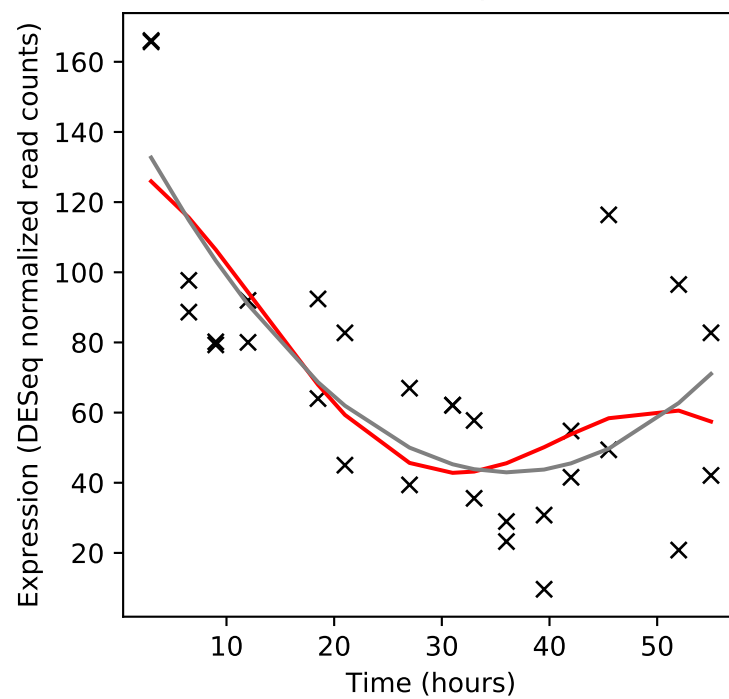
Rv1142c/echA10



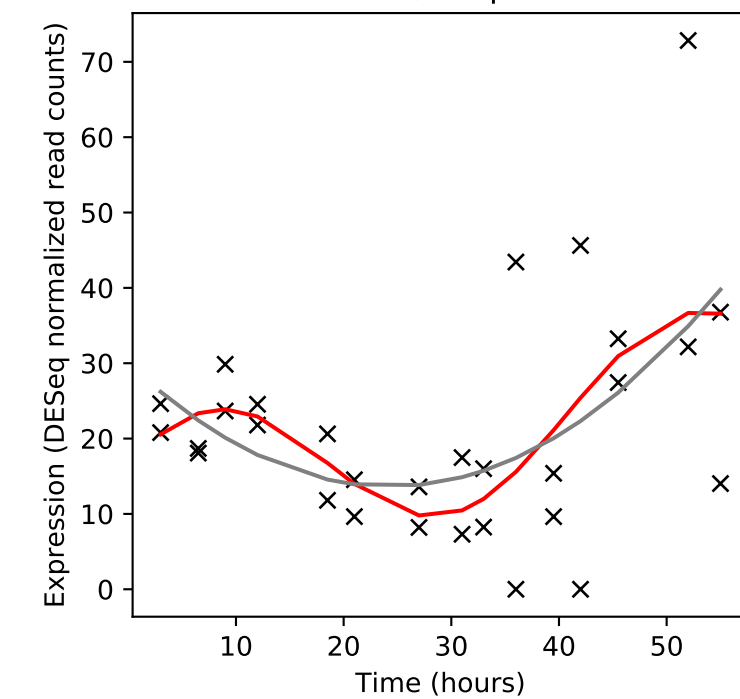
Rv1143/mcr



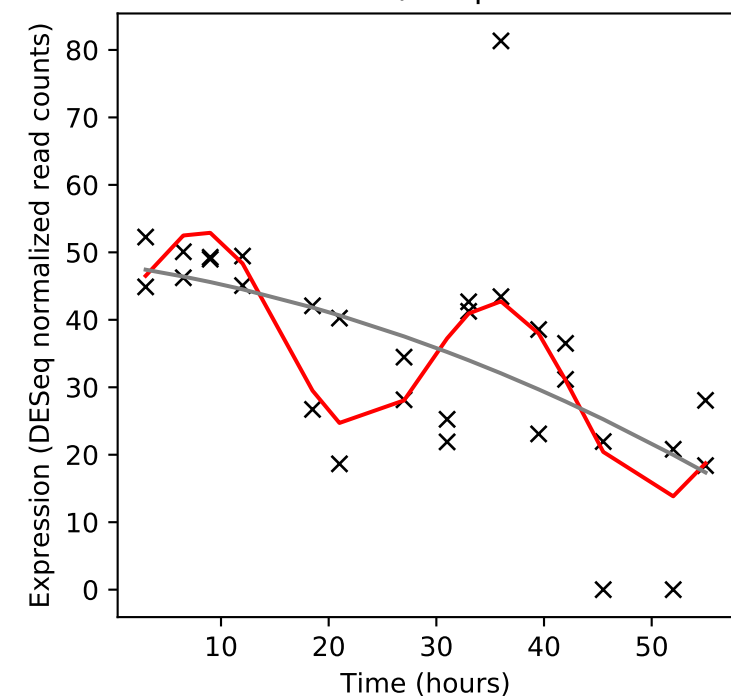
Rv1144/-



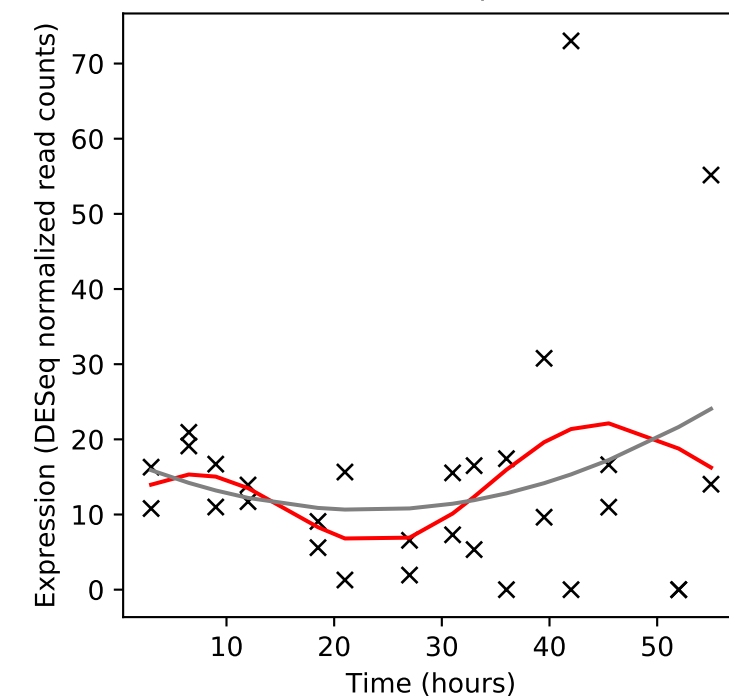
Rv1145/mmpL13a



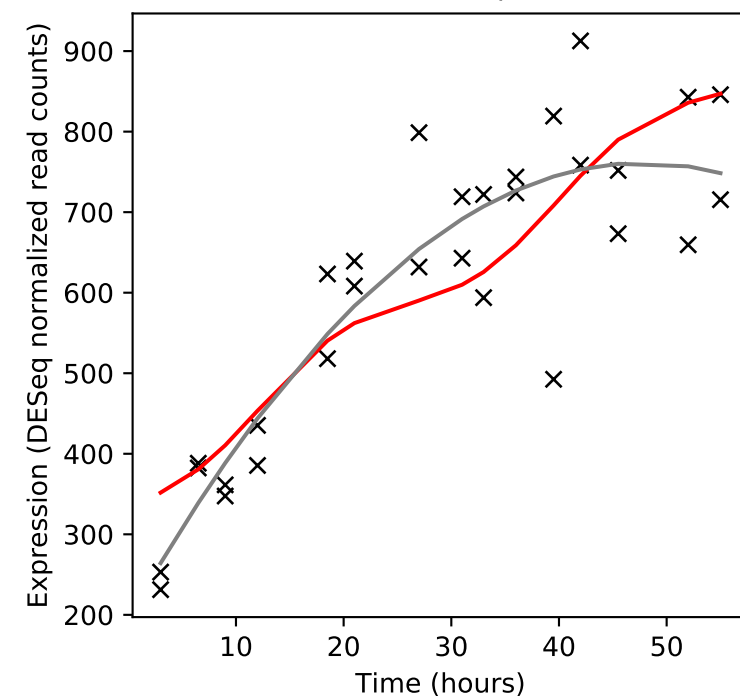
Rv1146/mmpL13b

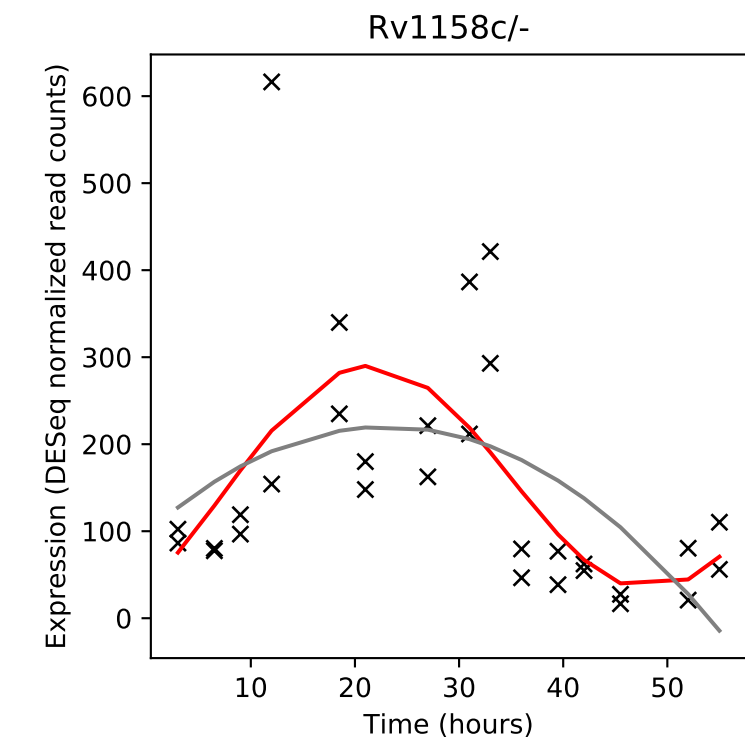
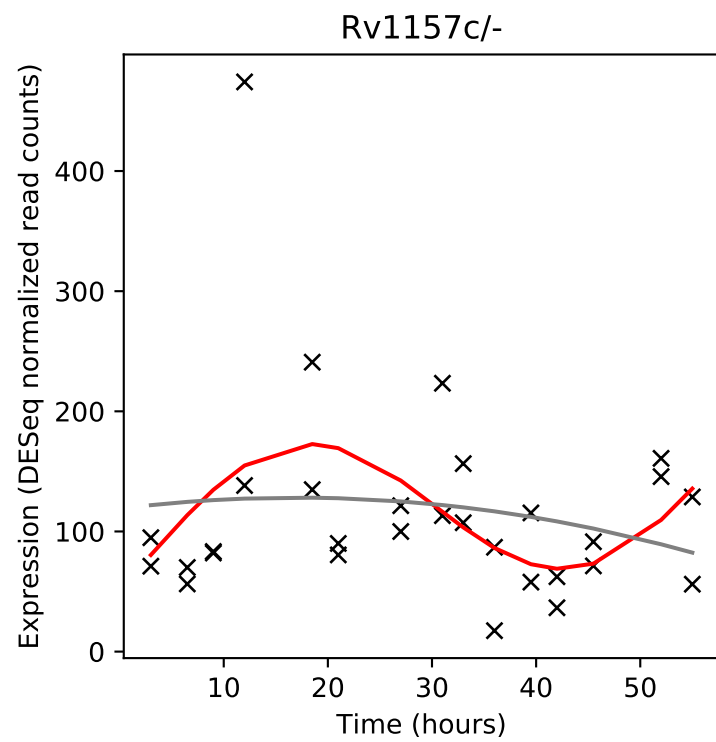
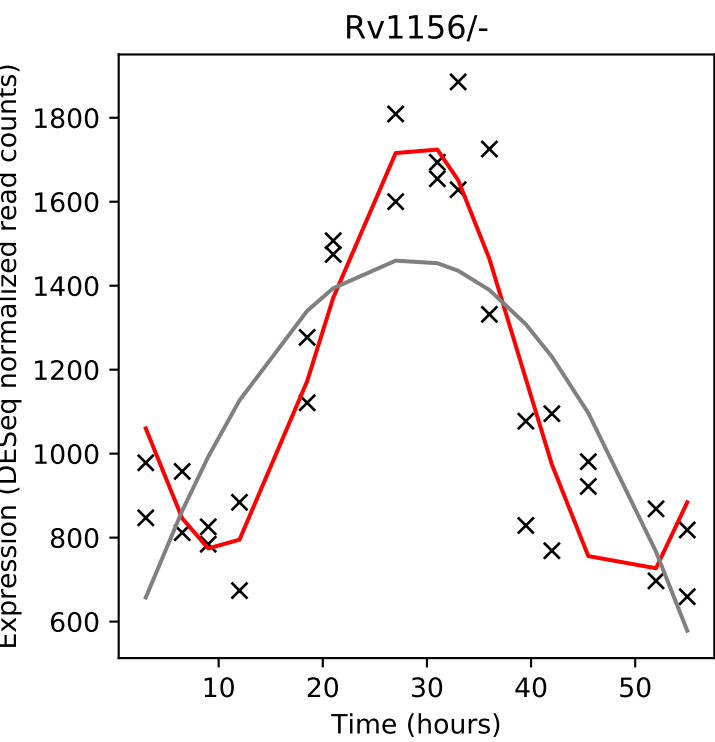
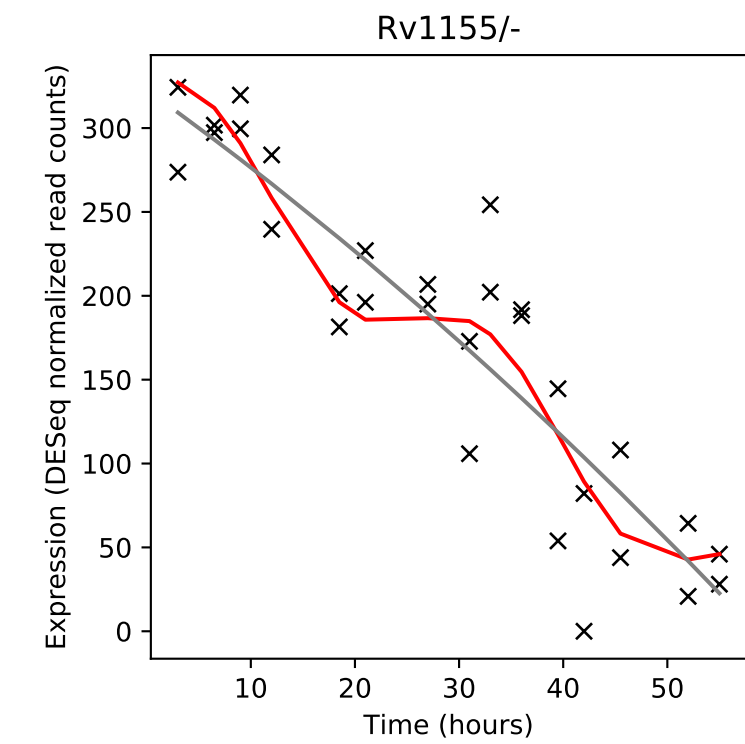
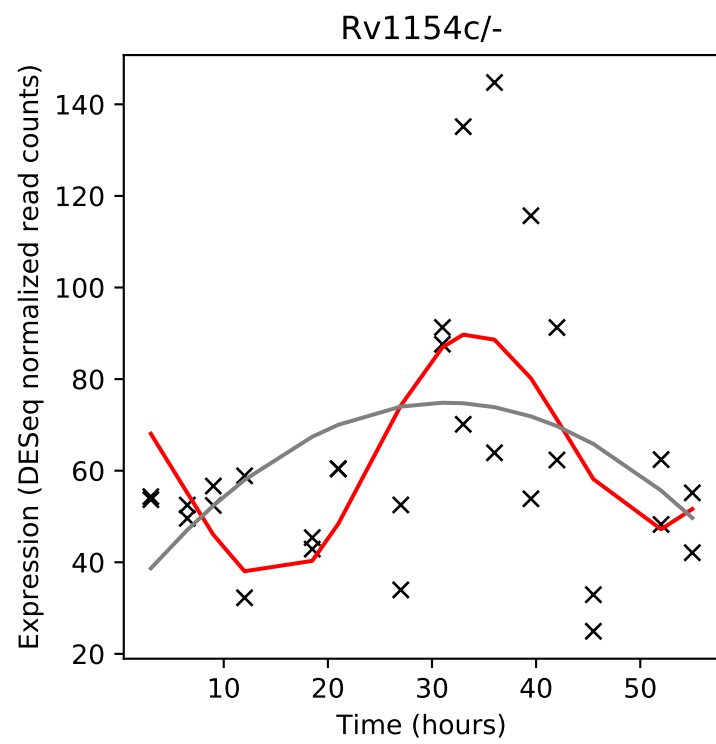
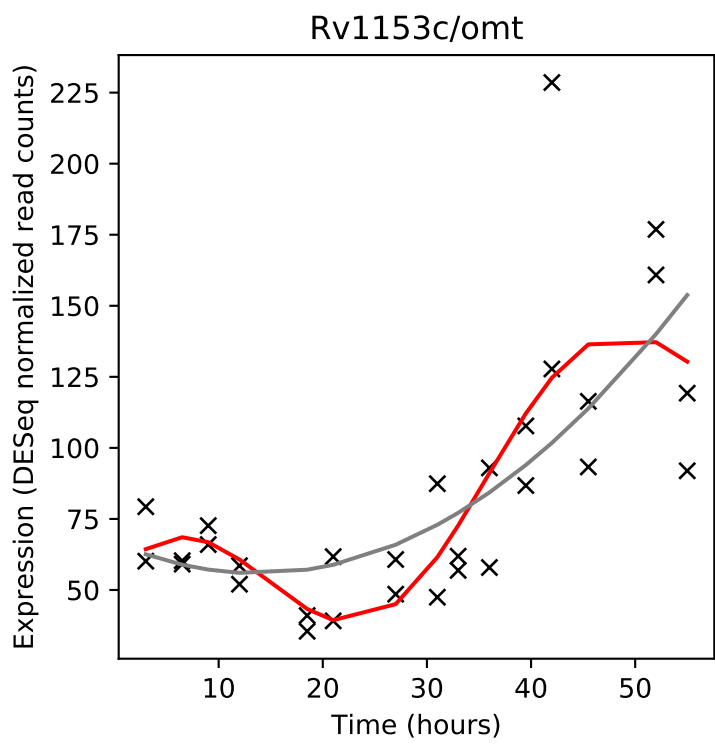
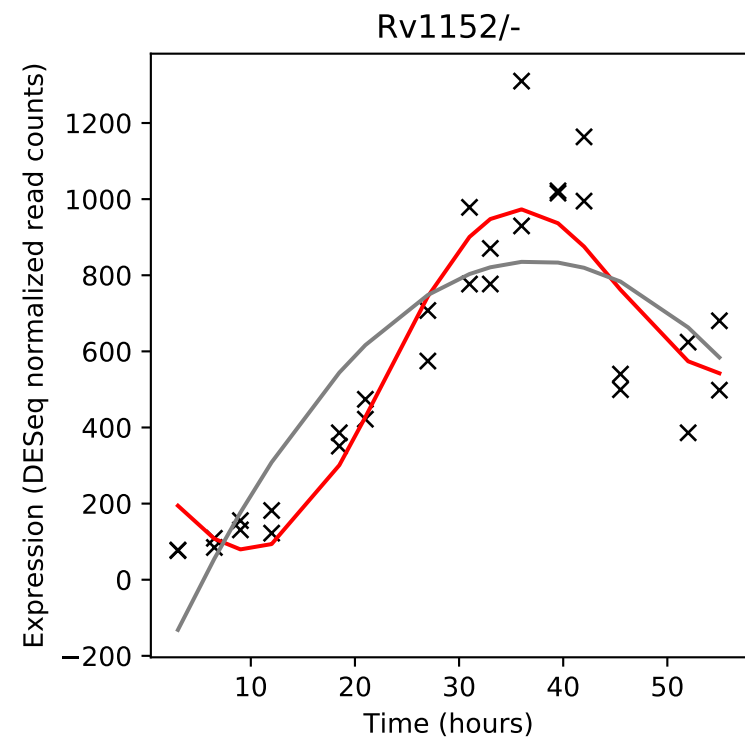
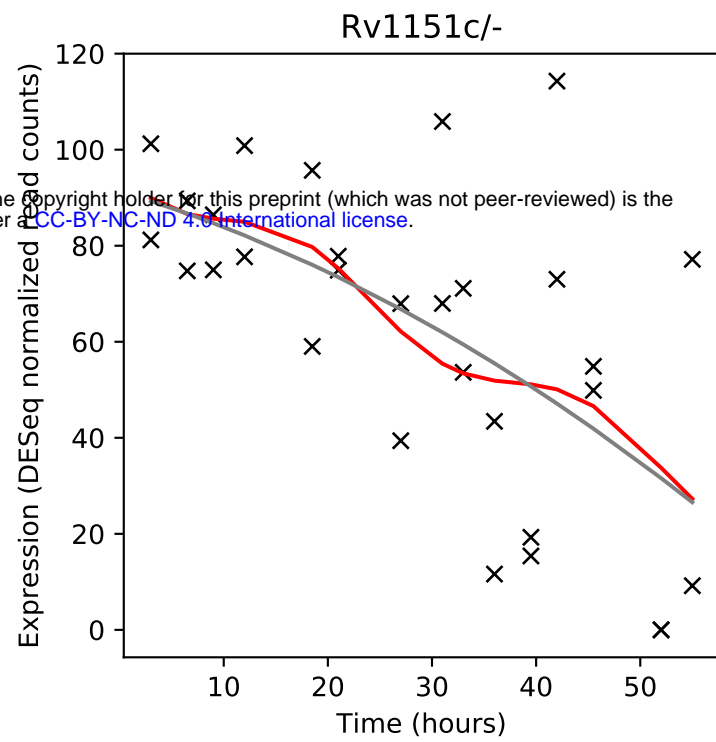
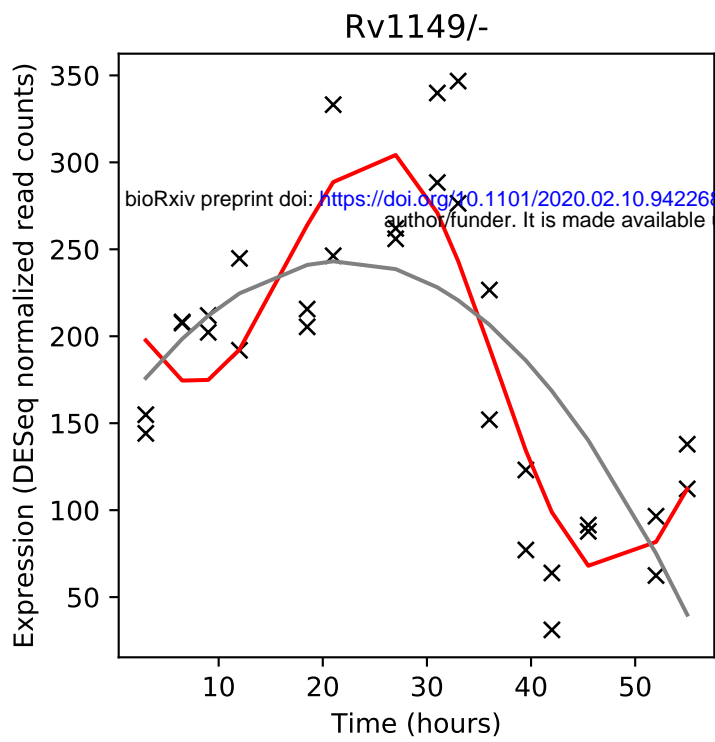


Rv1147/-

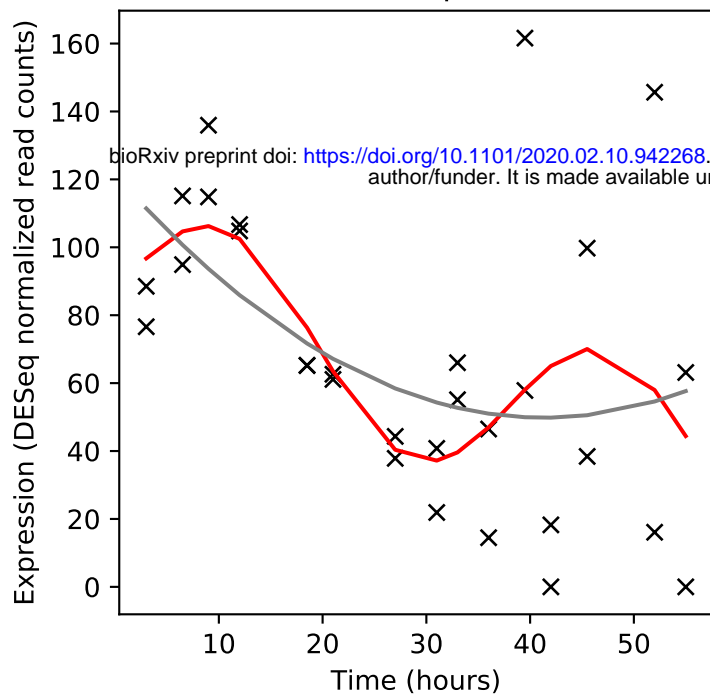


Rv1148c/-

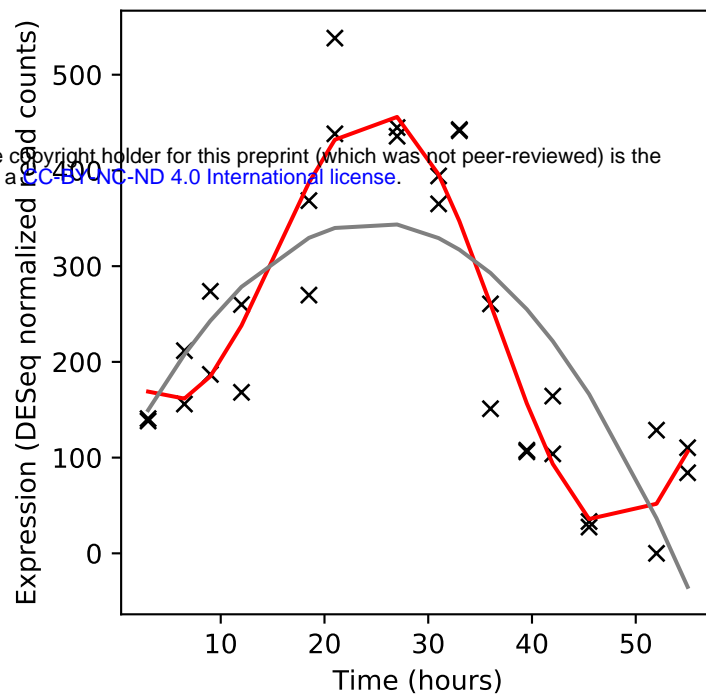




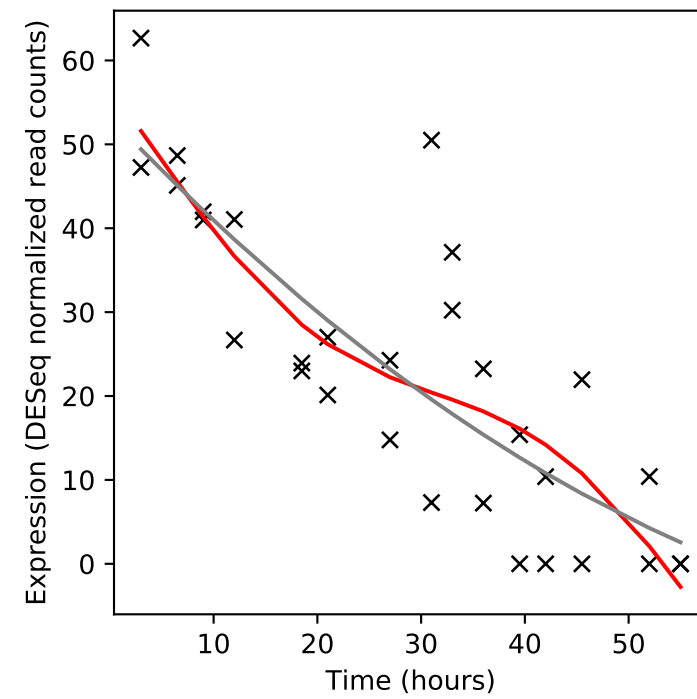
Rv1159/pimE



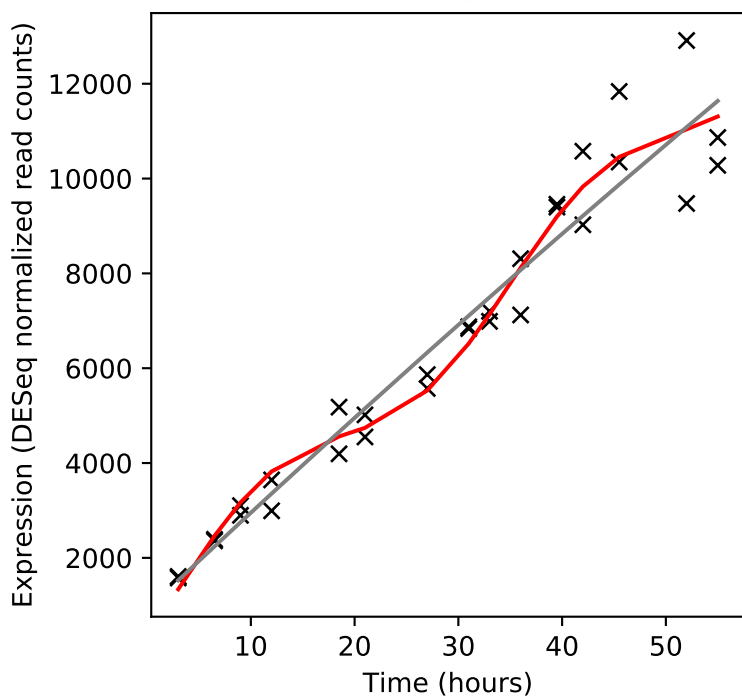
Rv1159A/-



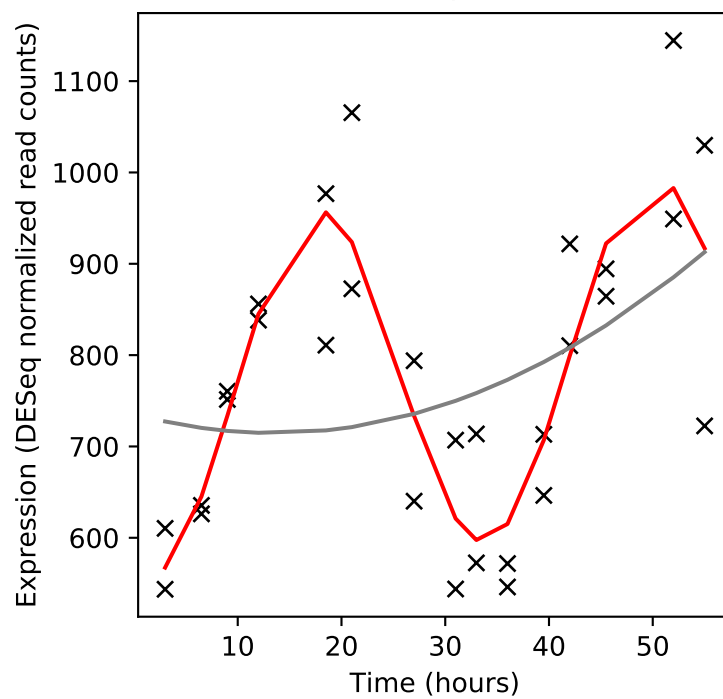
Rv1160/mutT2



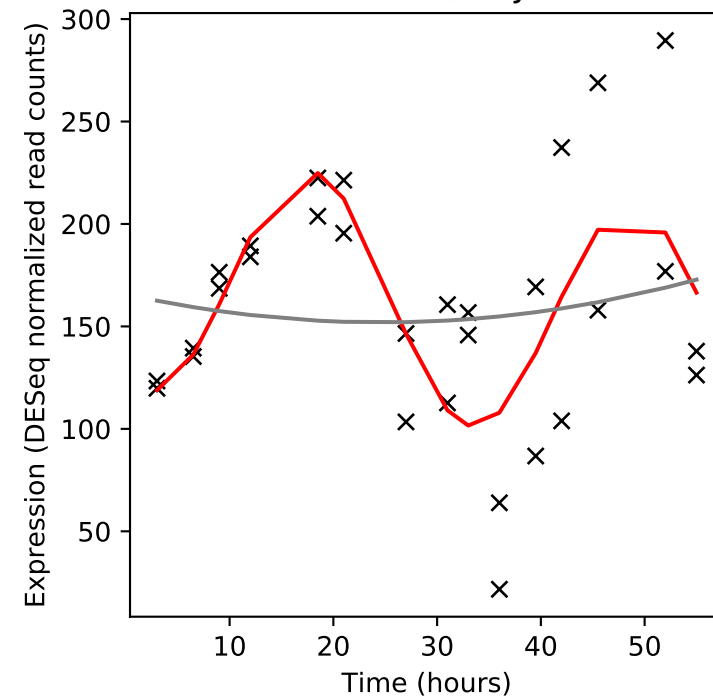
Rv1161/narG



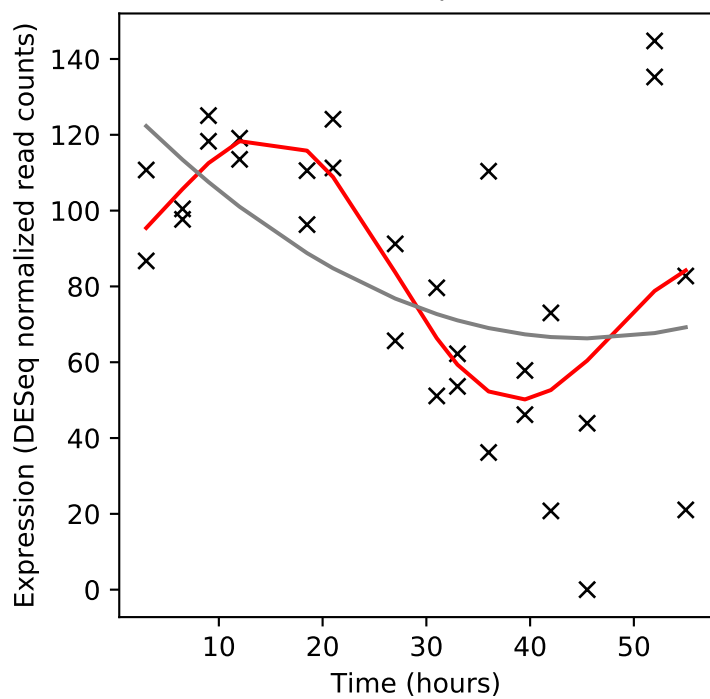
Rv1162/narH



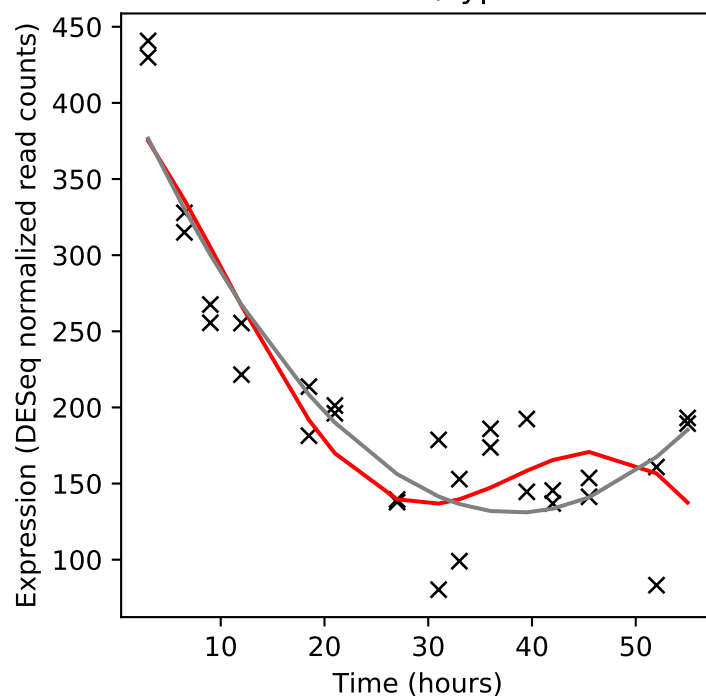
Rv1163/narJ



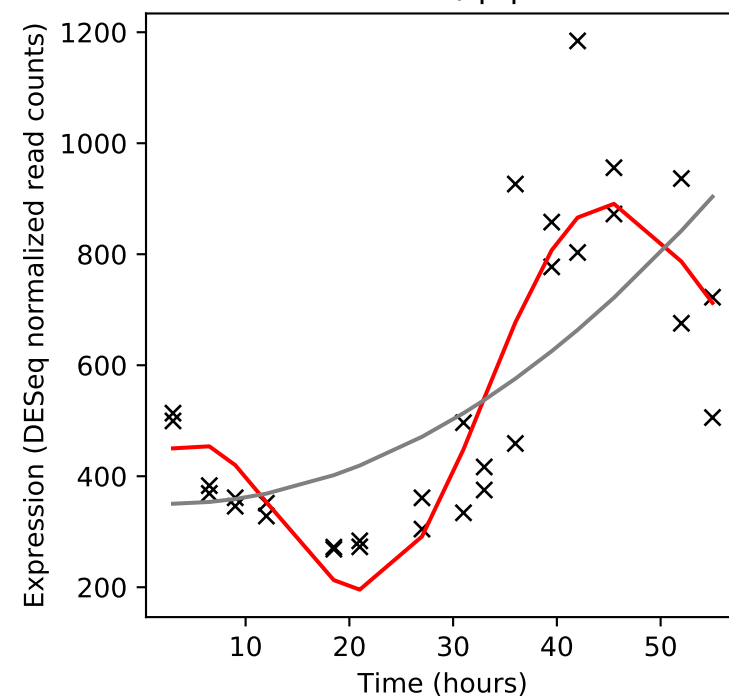
Rv1164/narI



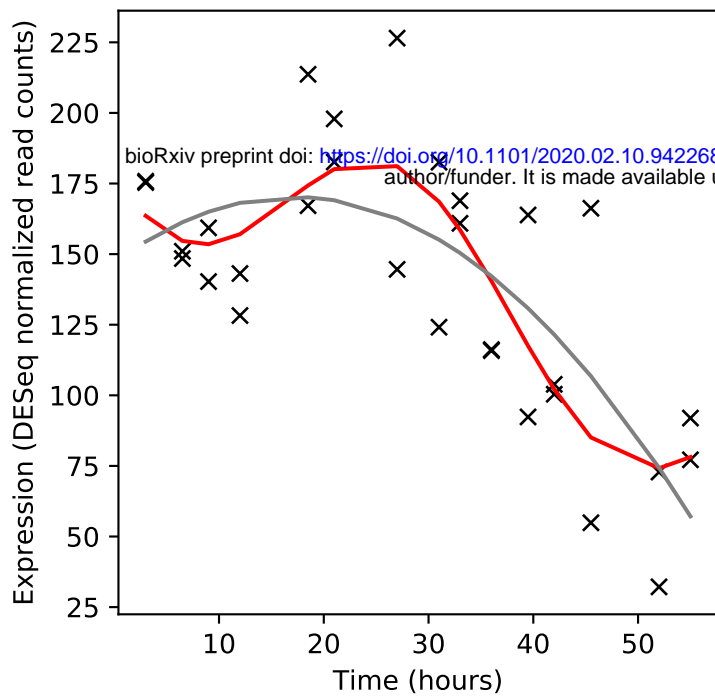
Rv1165/typA



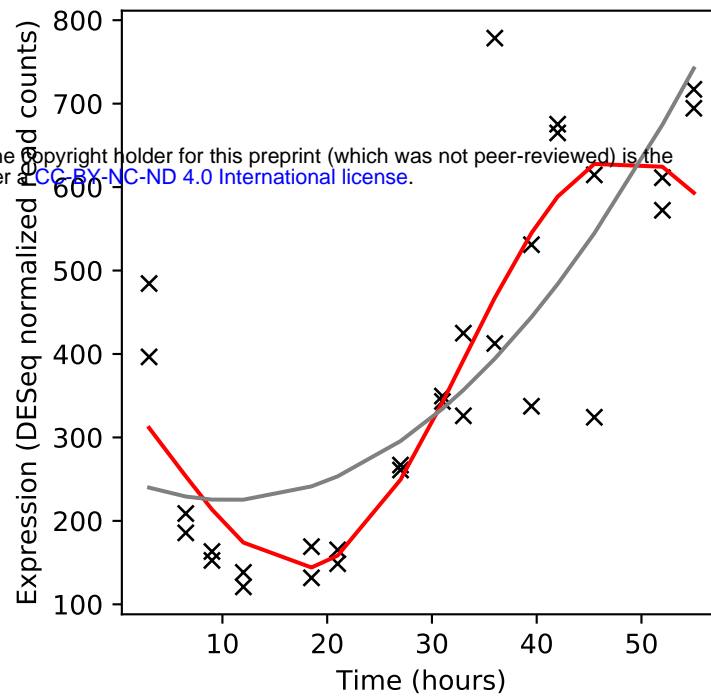
Rv1166/lpqW



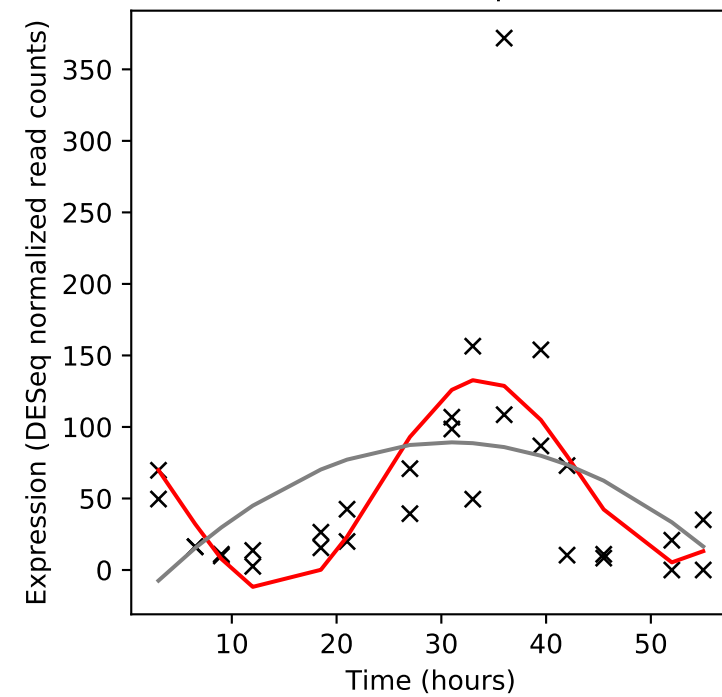
Rv1167c/-



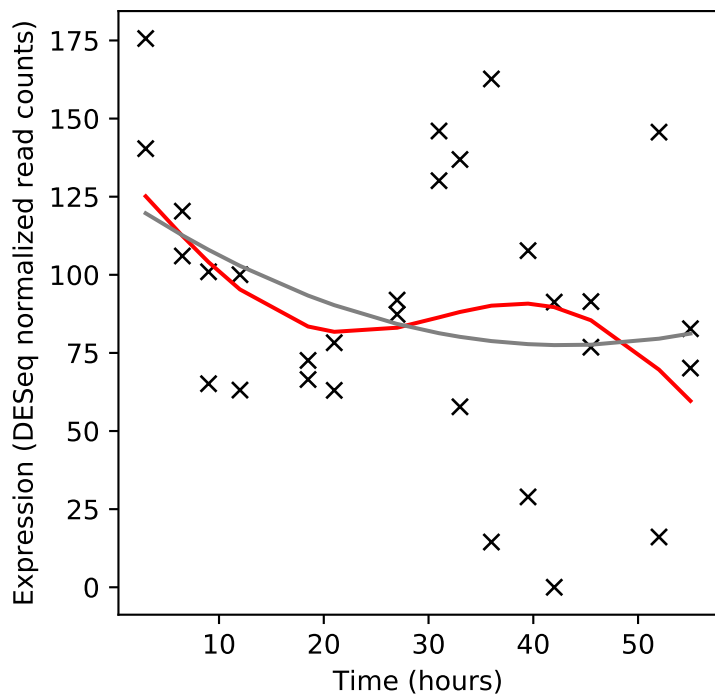
Rv1168c/PPE17



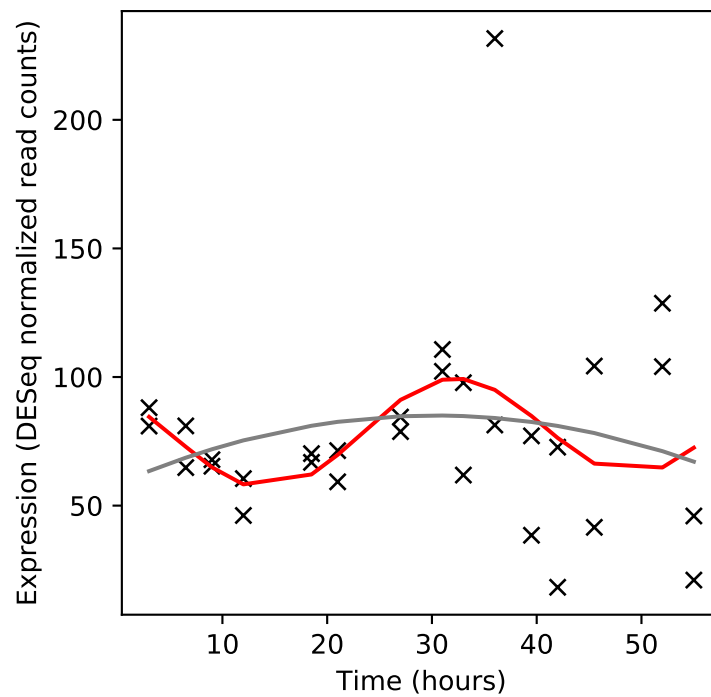
Rv1169c/lipX



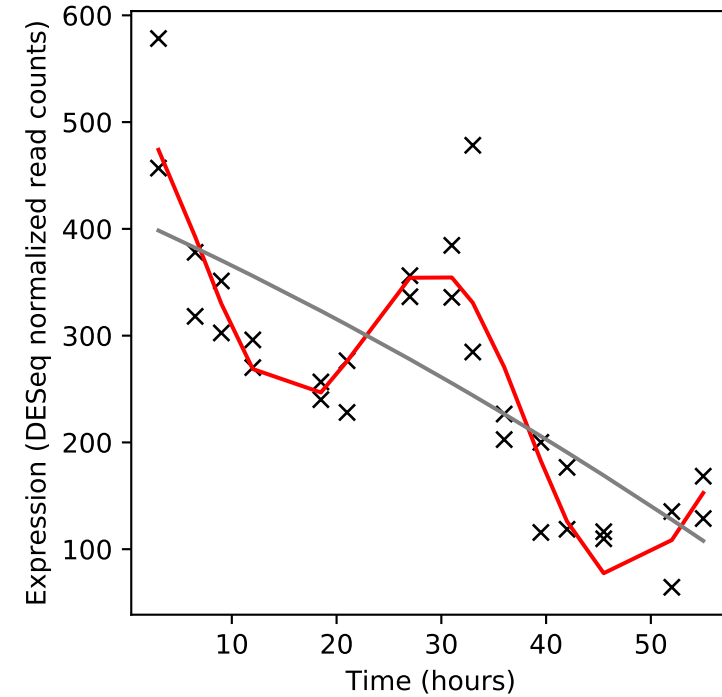
Rv1170/mshB



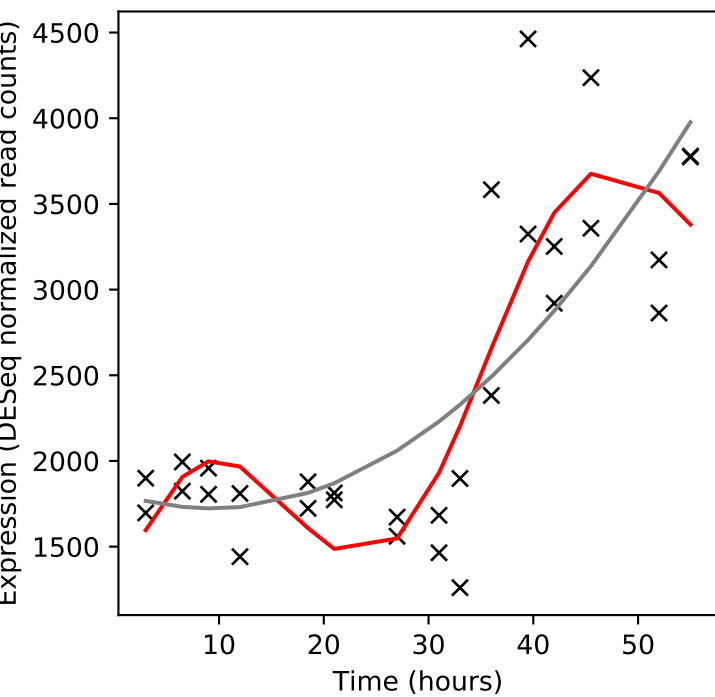
Rv1171/-



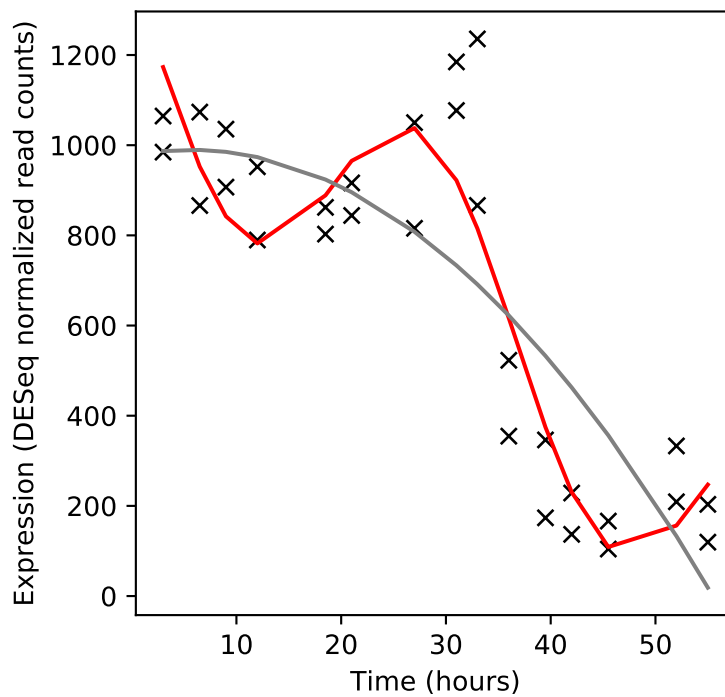
Rv1172c/PE12



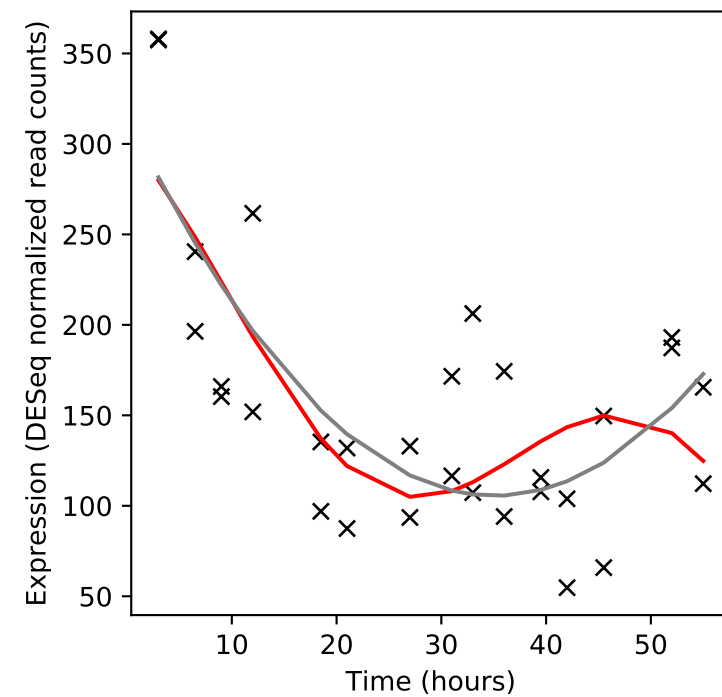
Rv1173/fbiC



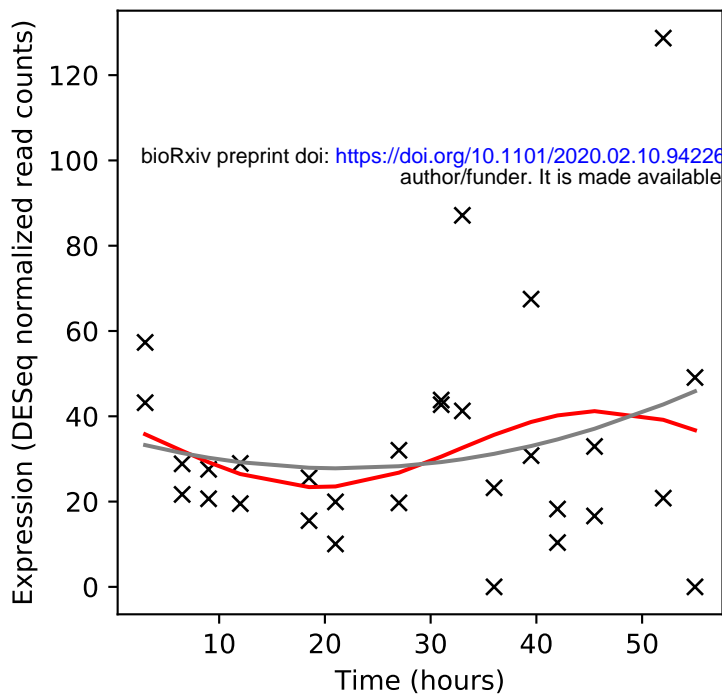
Rv1174c/TB8.4



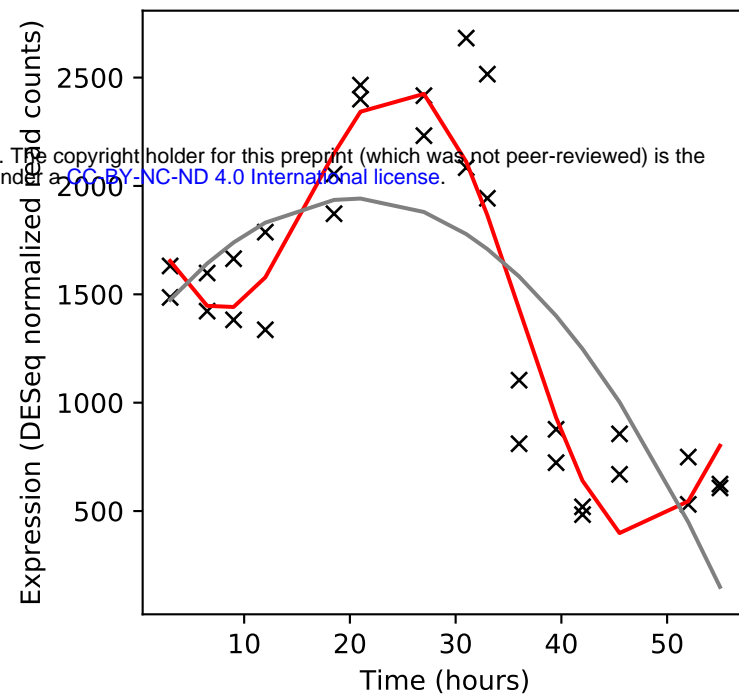
Rv1175c/fadH



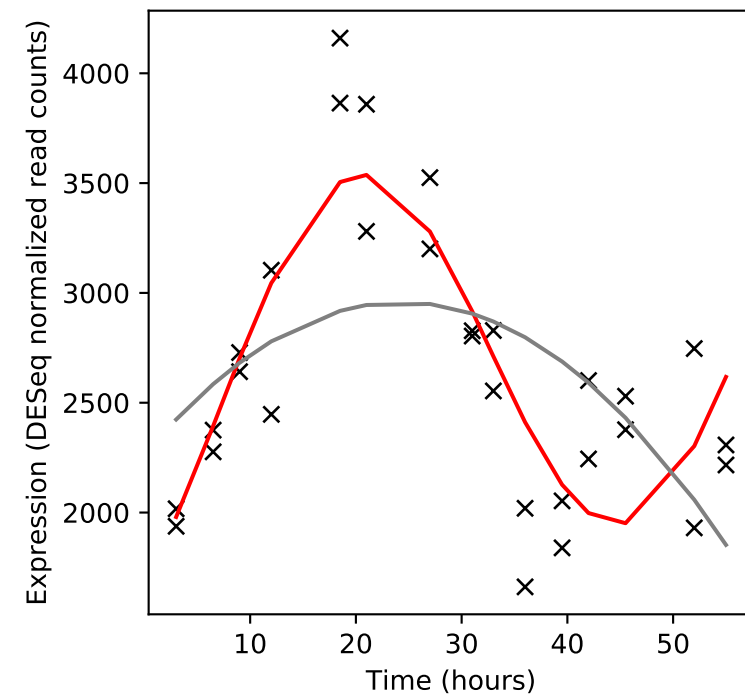
Rv1176c/-



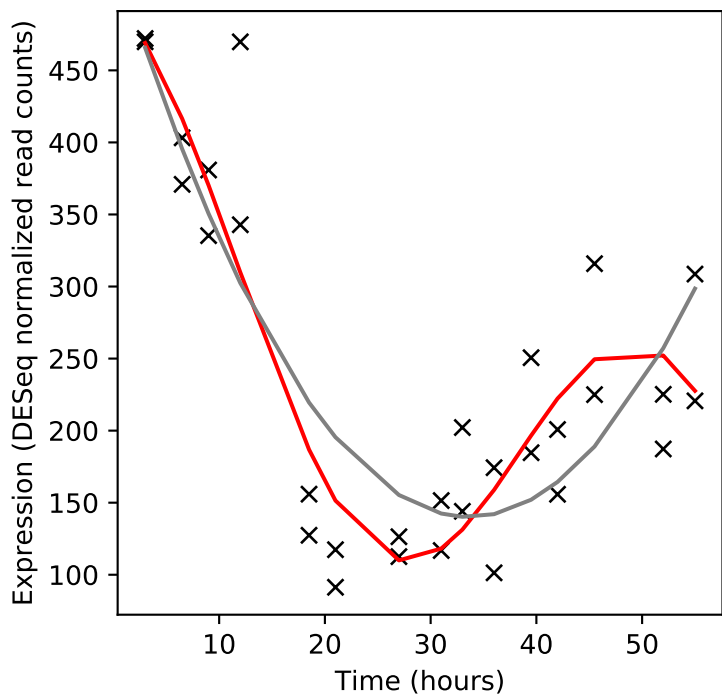
Rv1177/fdxC



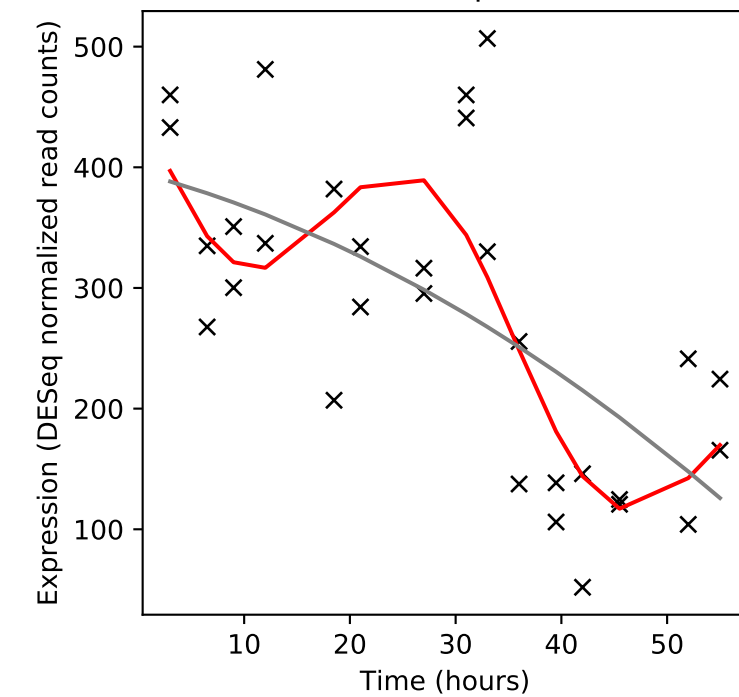
Rv1178/-



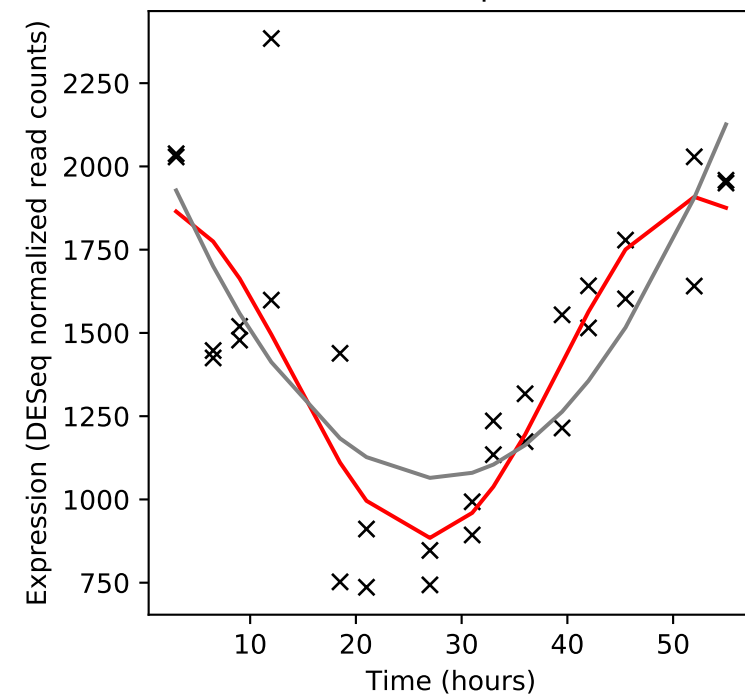
Rv1179c/-



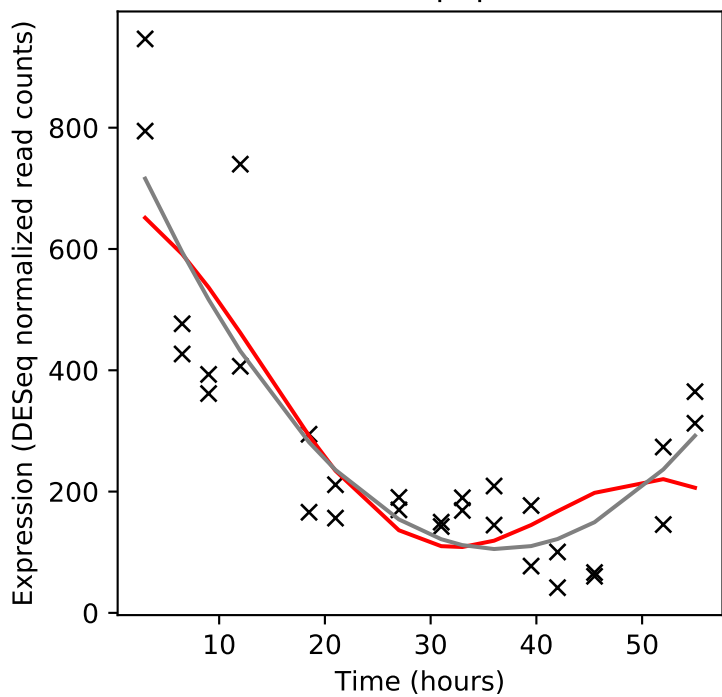
Rv1180/pks3



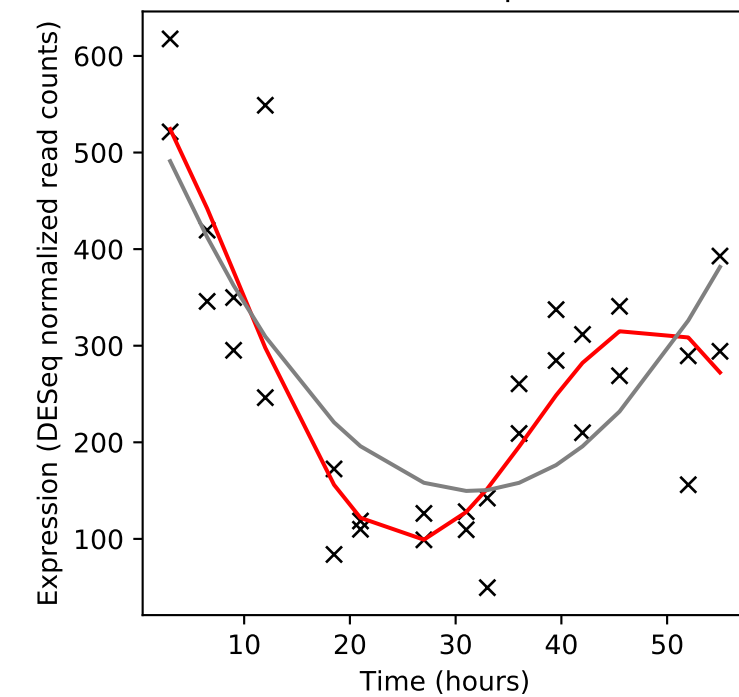
Rv1181/pks4



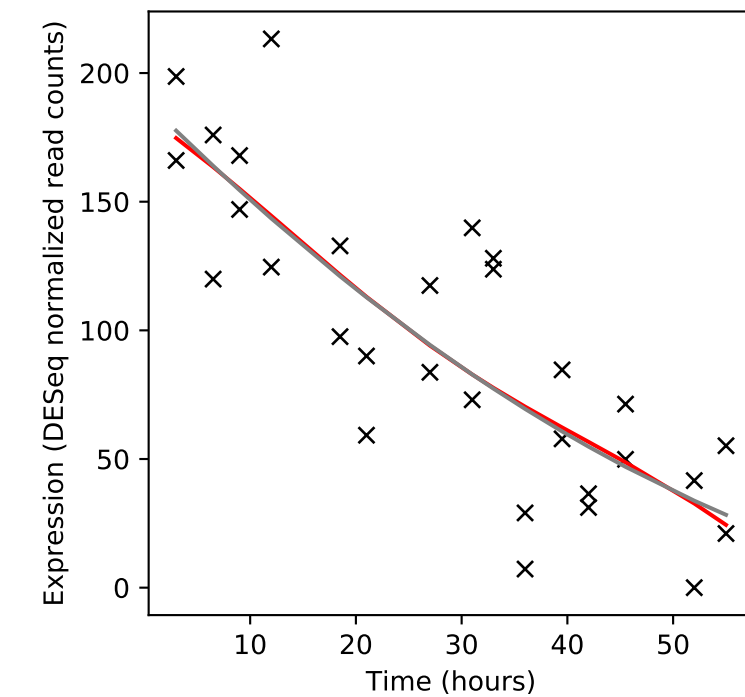
Rv1182/papA3



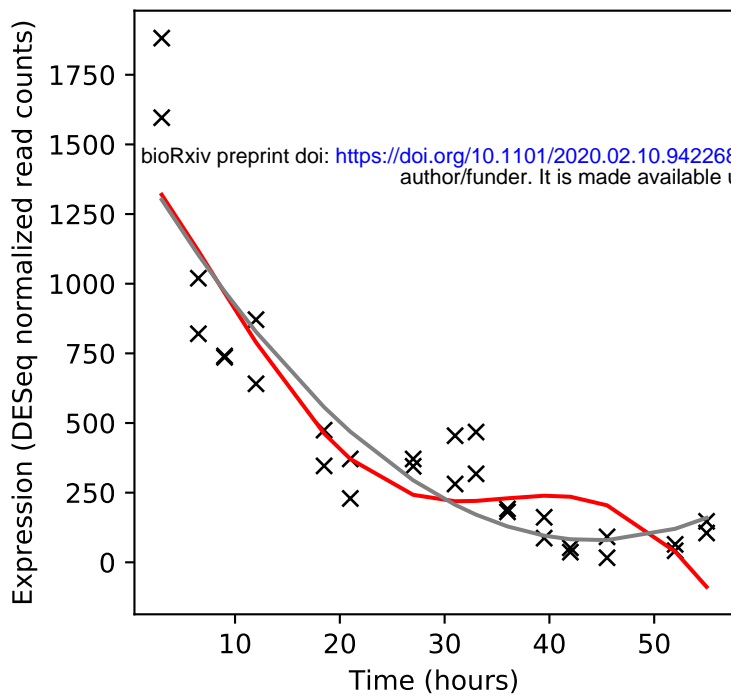
Rv1183/mmpL10



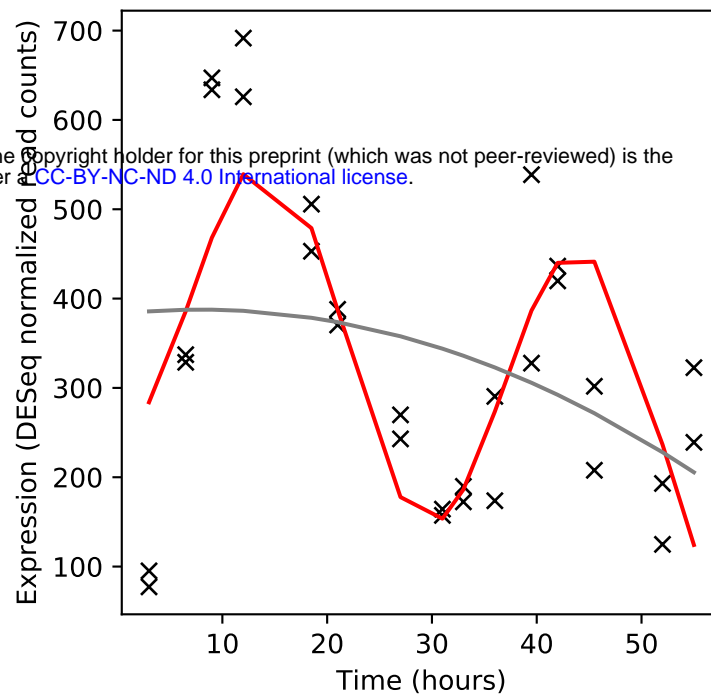
Rv1184c/-



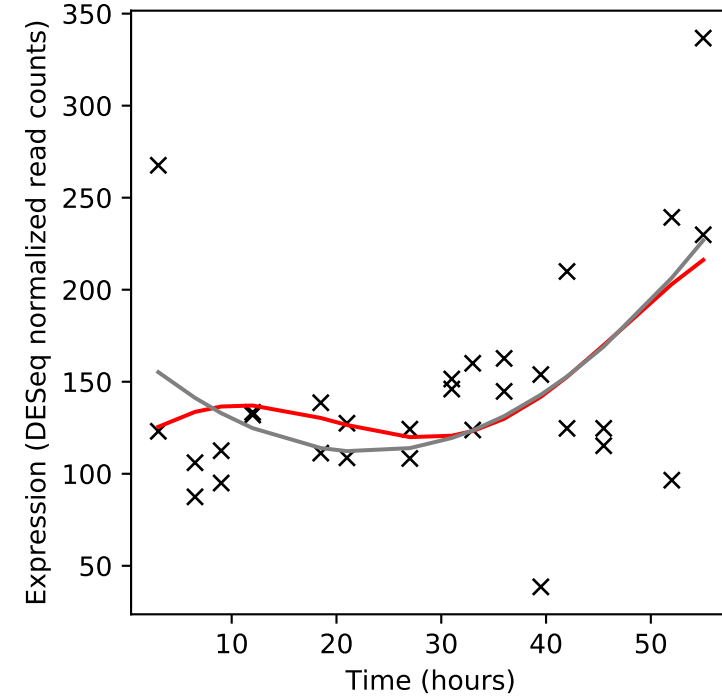
Rv1185c/fadD21



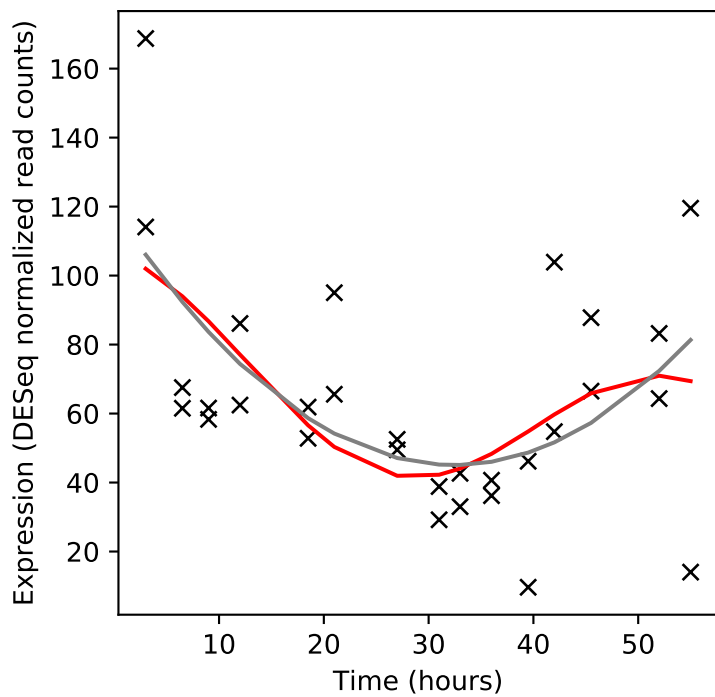
Rv1186c/-



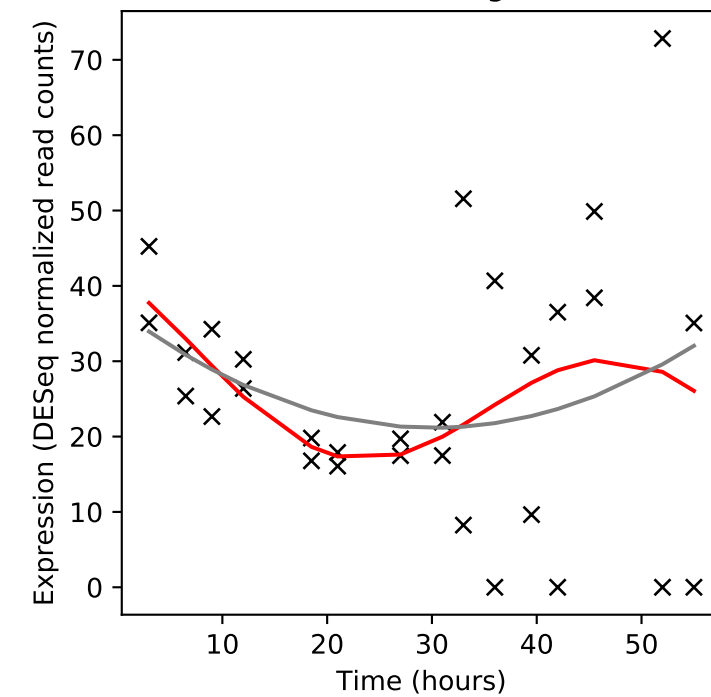
Rv1187/rocA



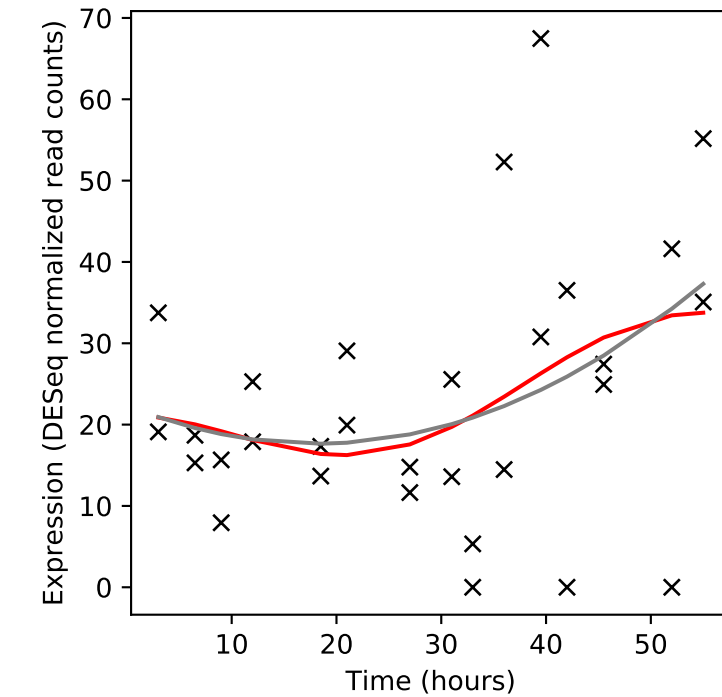
Rv1188/-



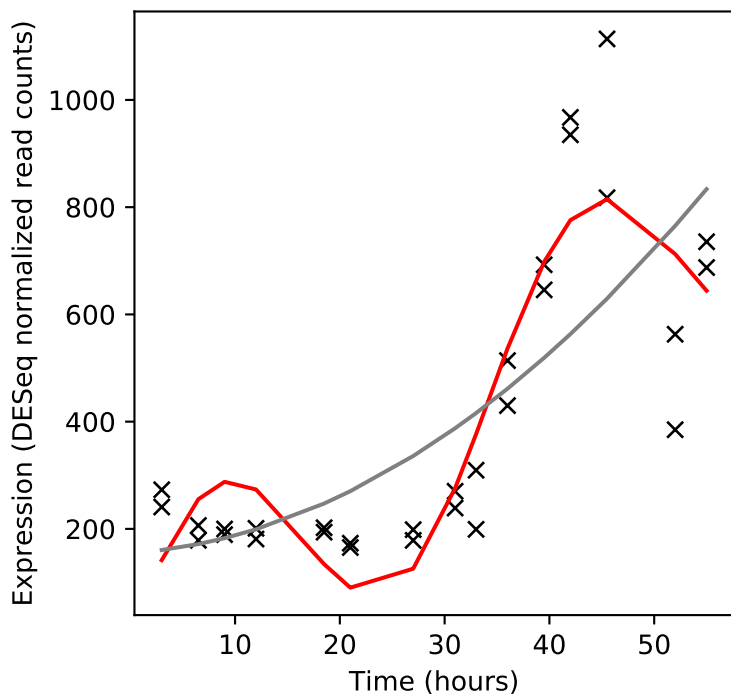
Rv1189/sigl



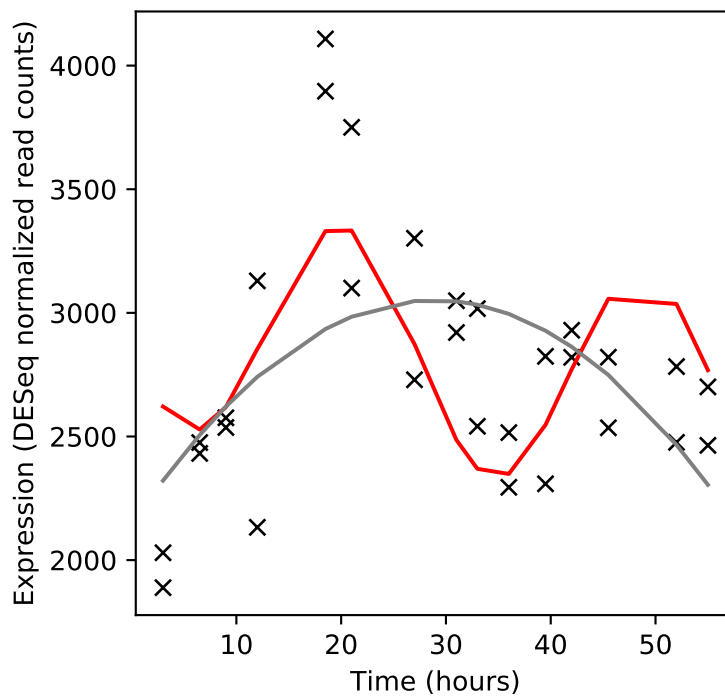
Rv1190/-



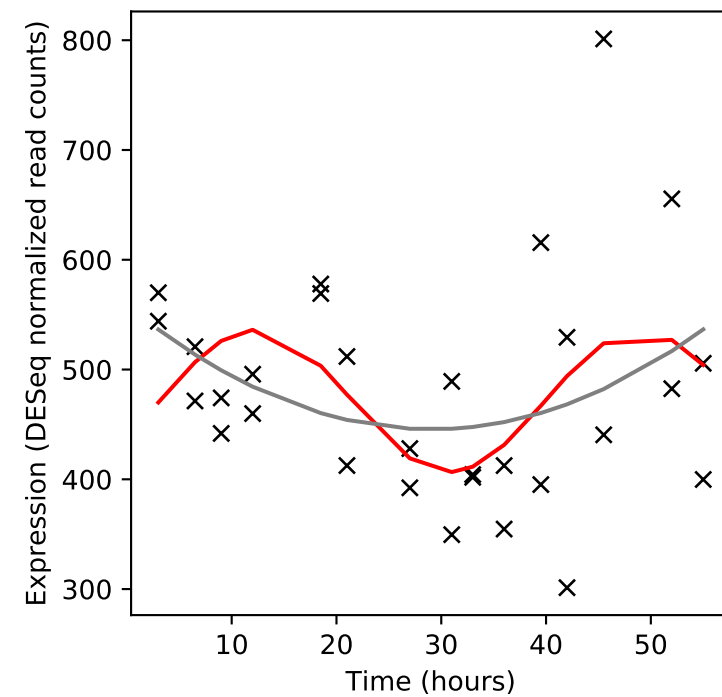
Rv1191/-



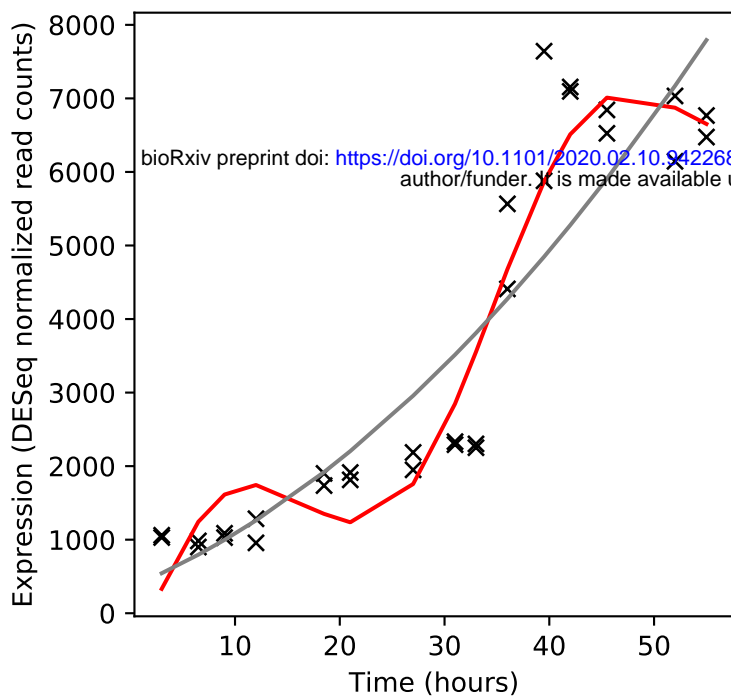
Rv1192/-



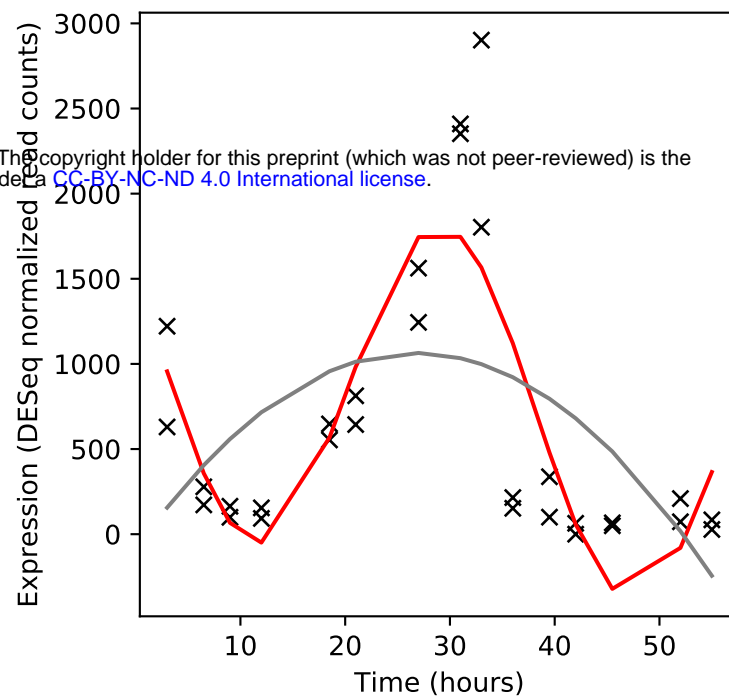
Rv1193/fadD36



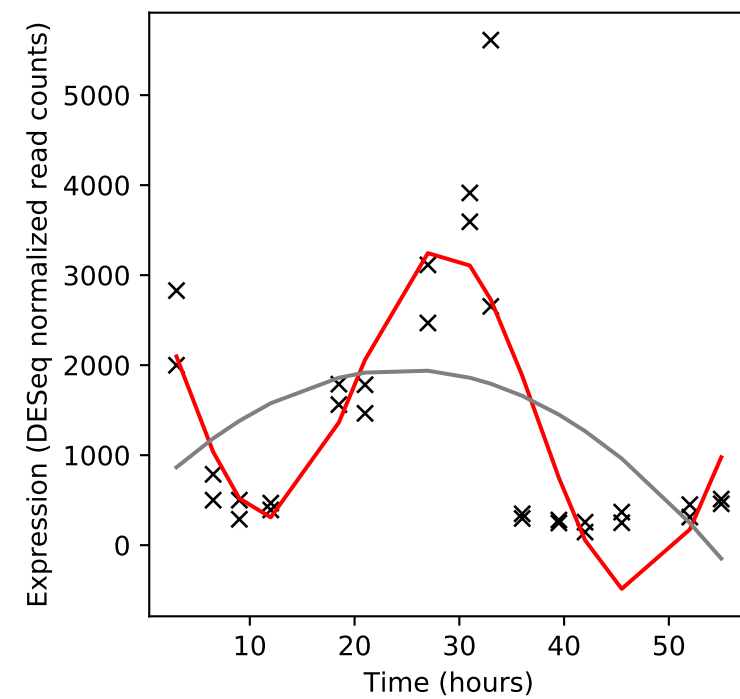
Rv1194c/-



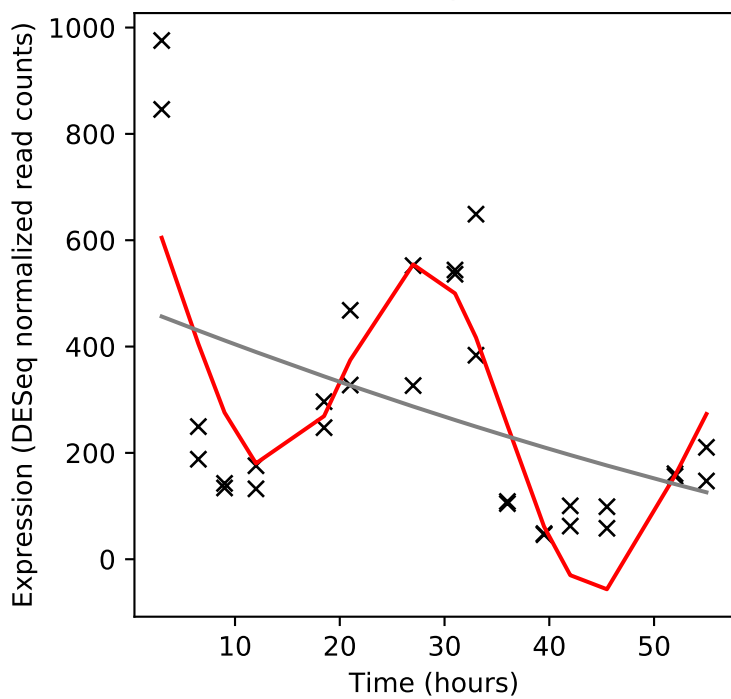
Rv1195/PE13



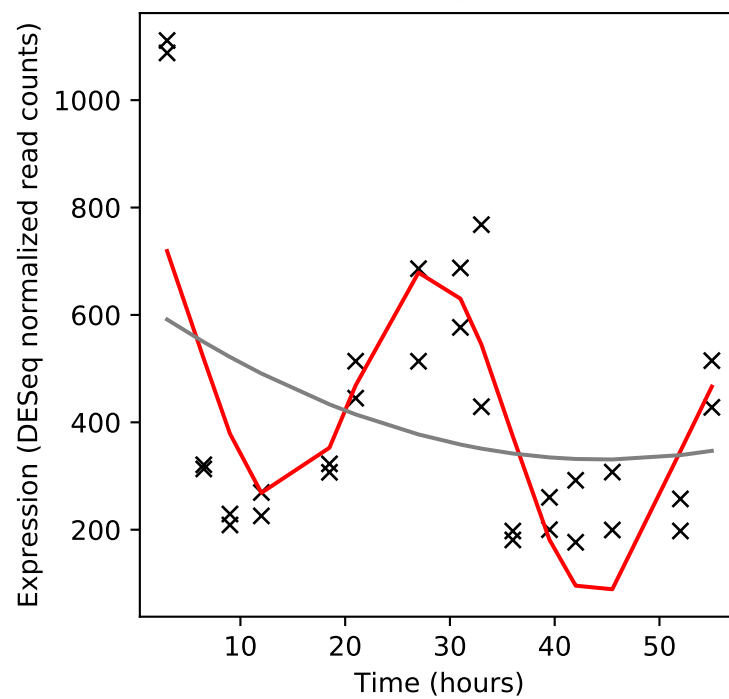
Rv1196/PPE18



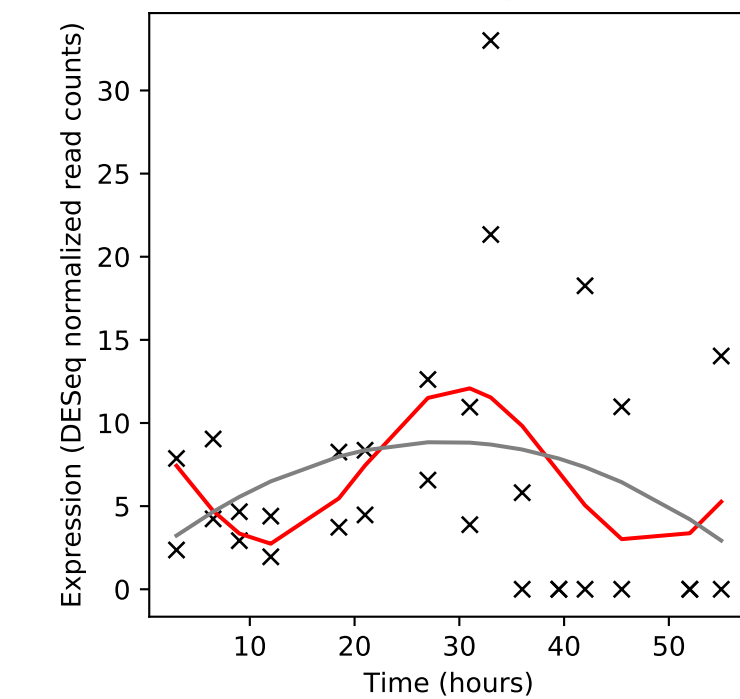
Rv1197/esxK



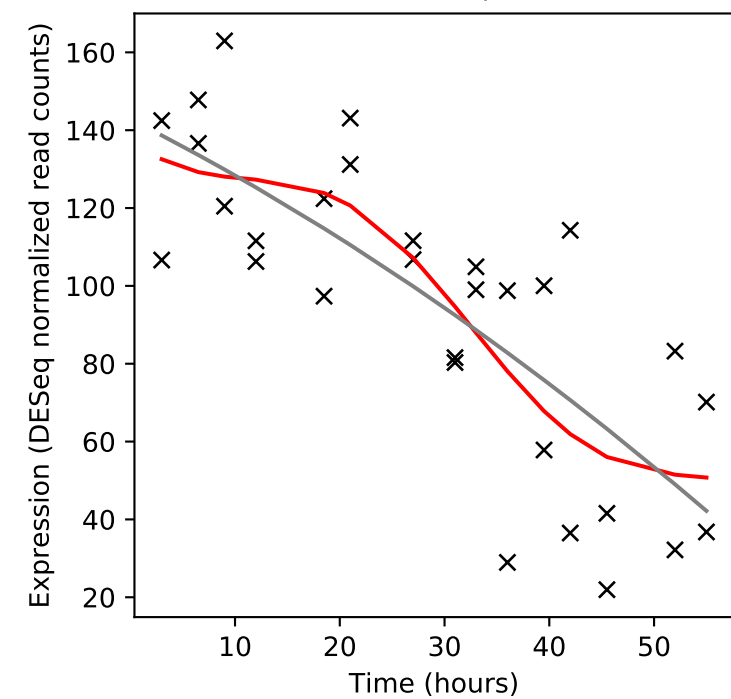
Rv1198/esxL



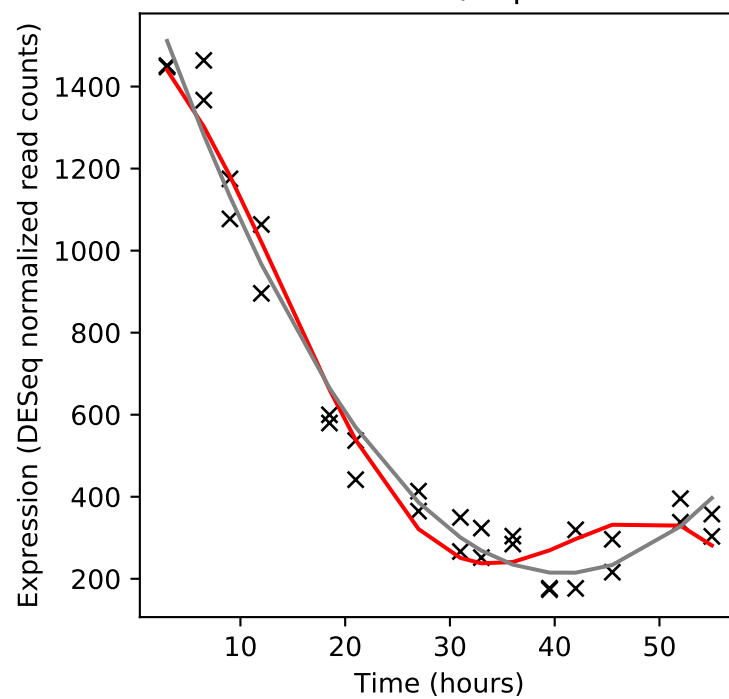
Rv1199c/-



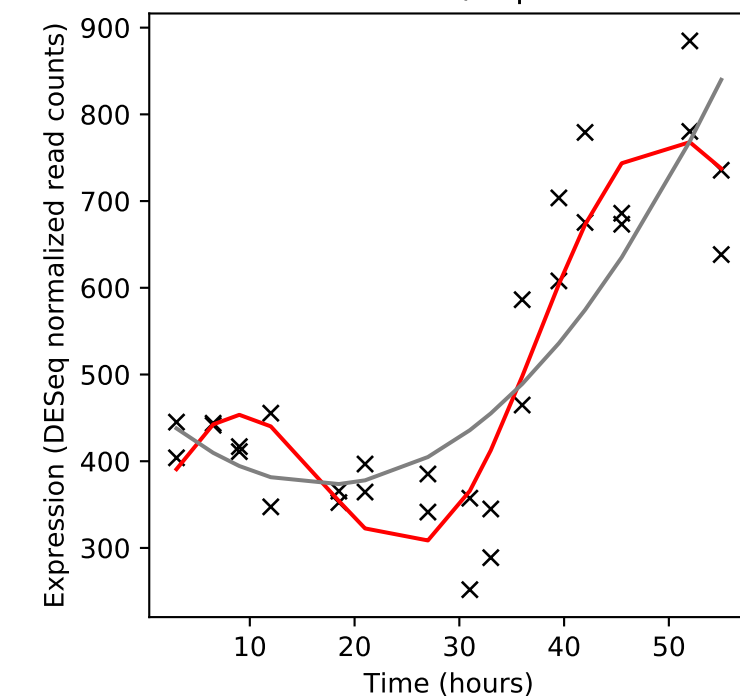
Rv1200/-



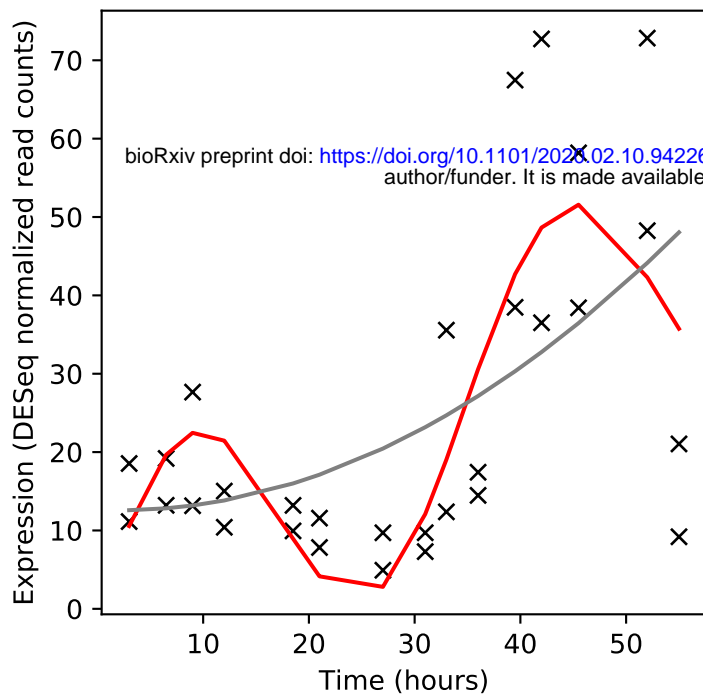
Rv1201c/dapD



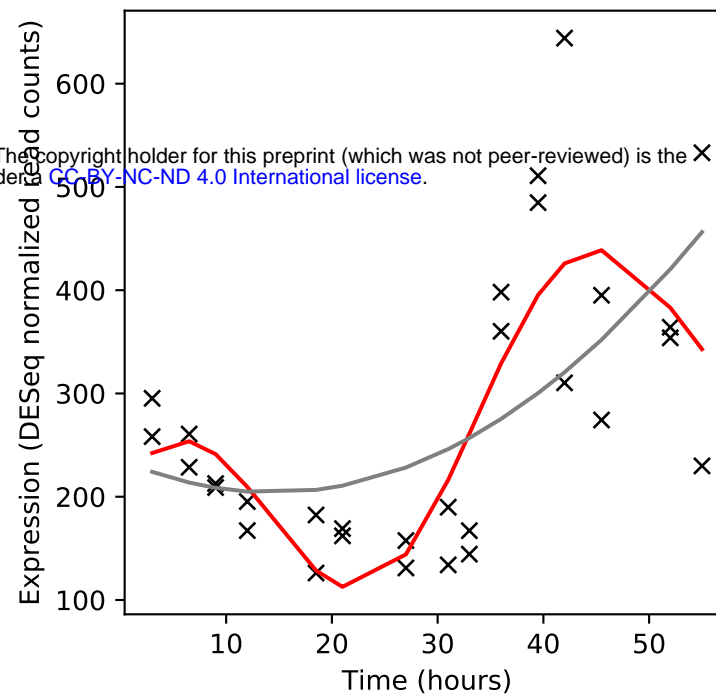
Rv1202/dapE



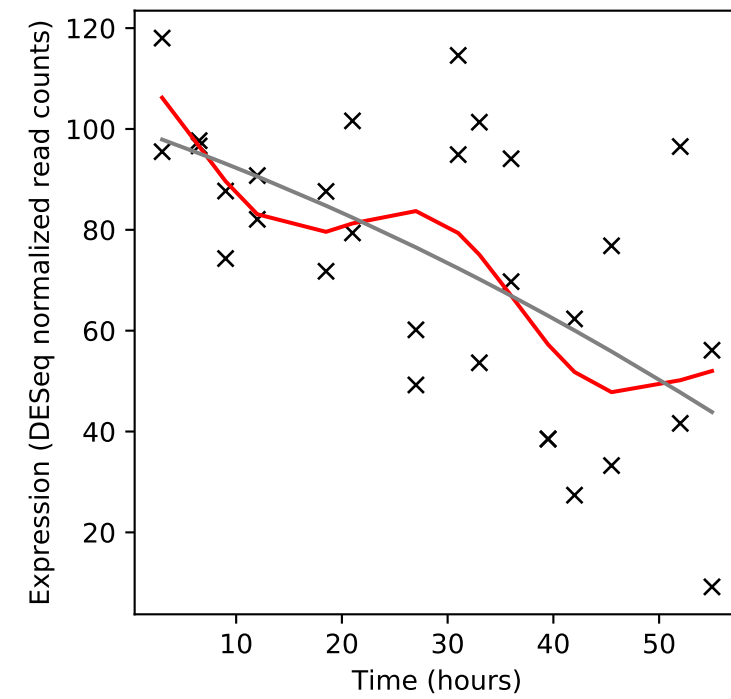
Rv1203c/-



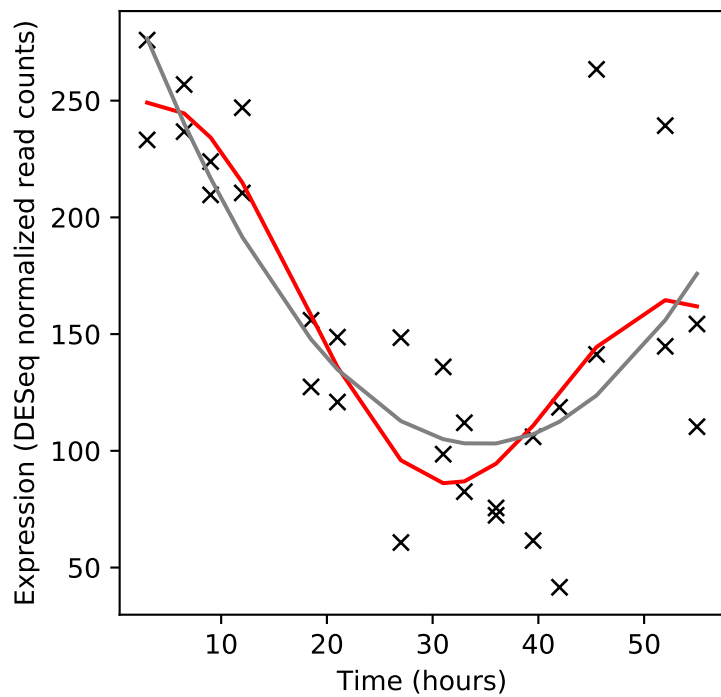
Rv1204c/-



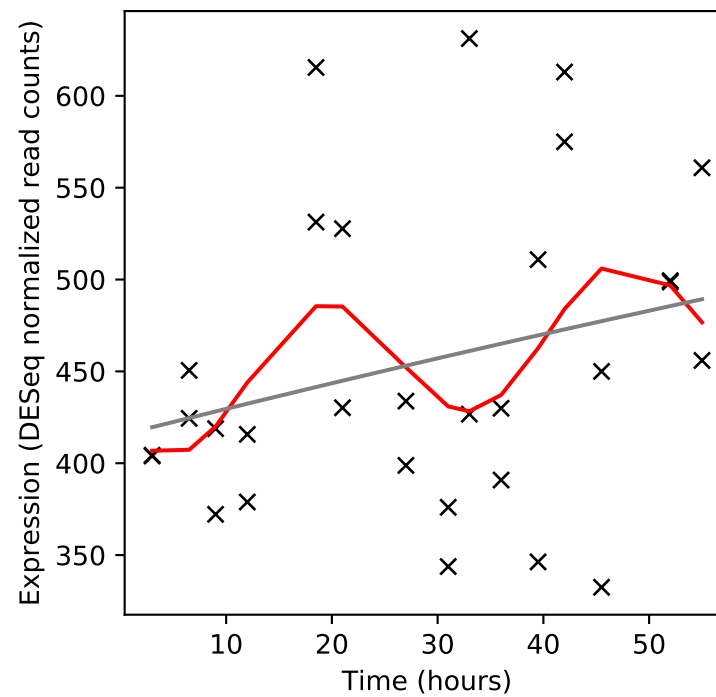
Rv1205/-



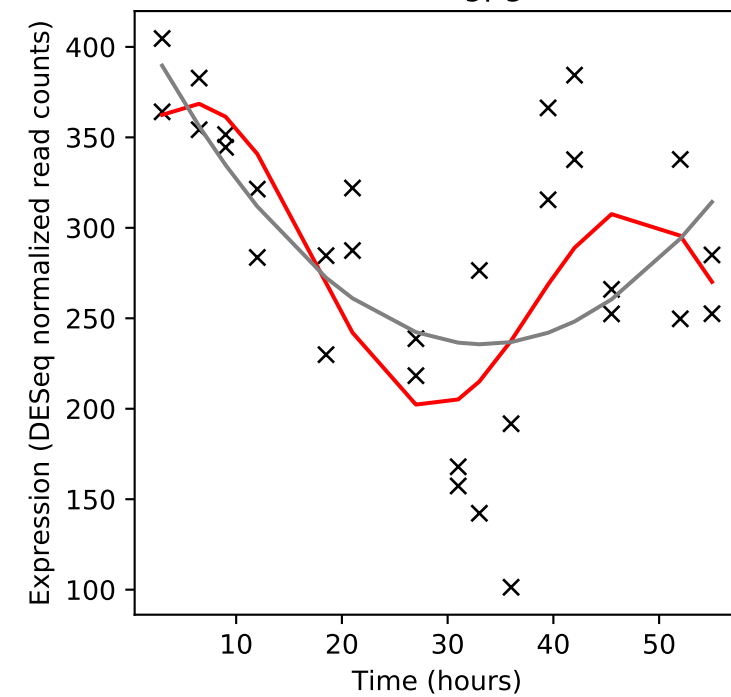
Rv1206/fadD6



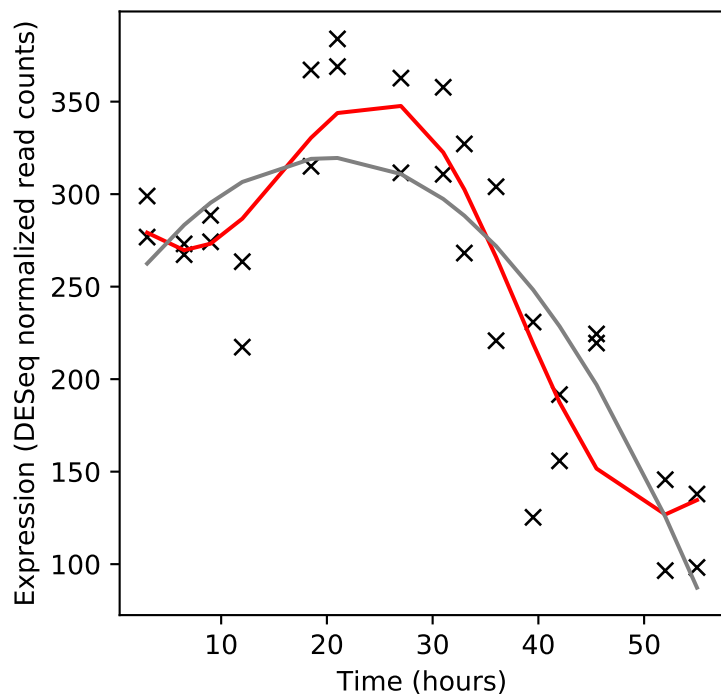
Rv1207/foIP2



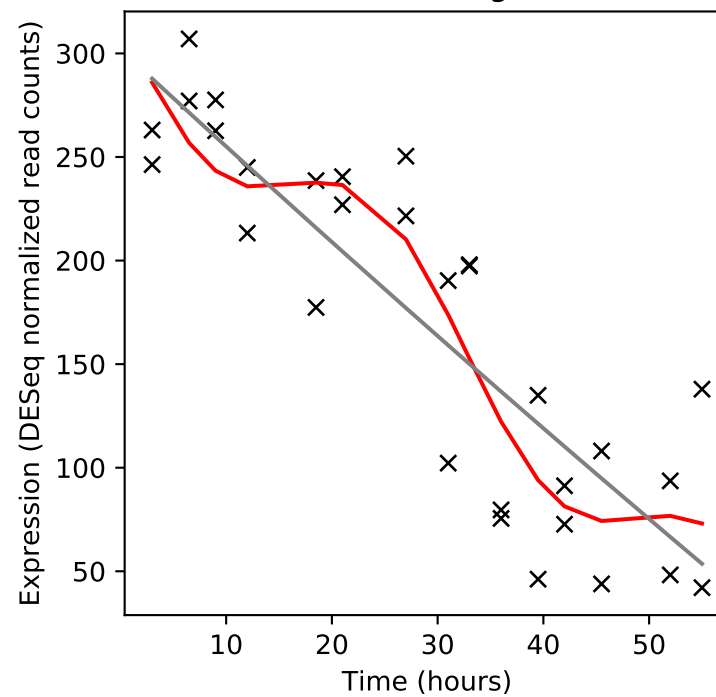
Rv1208/gpgS



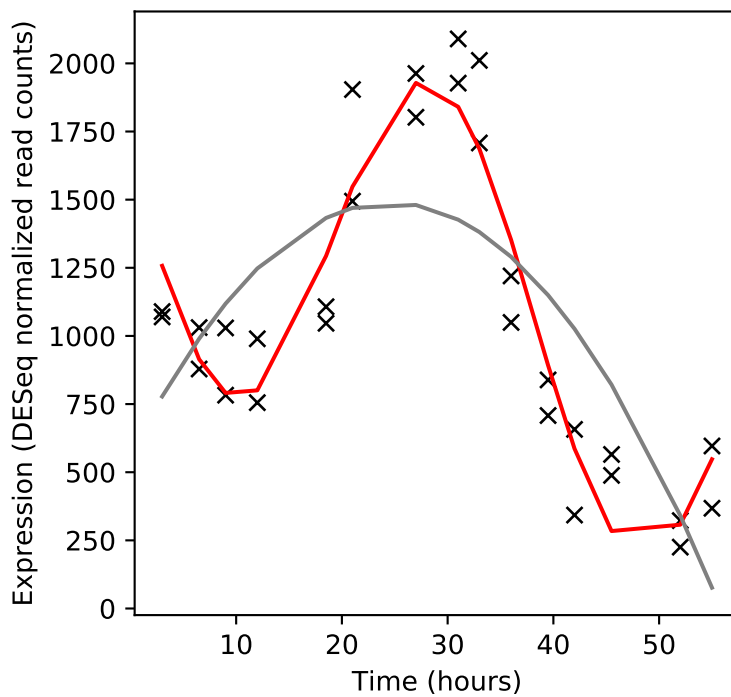
Rv1209/-



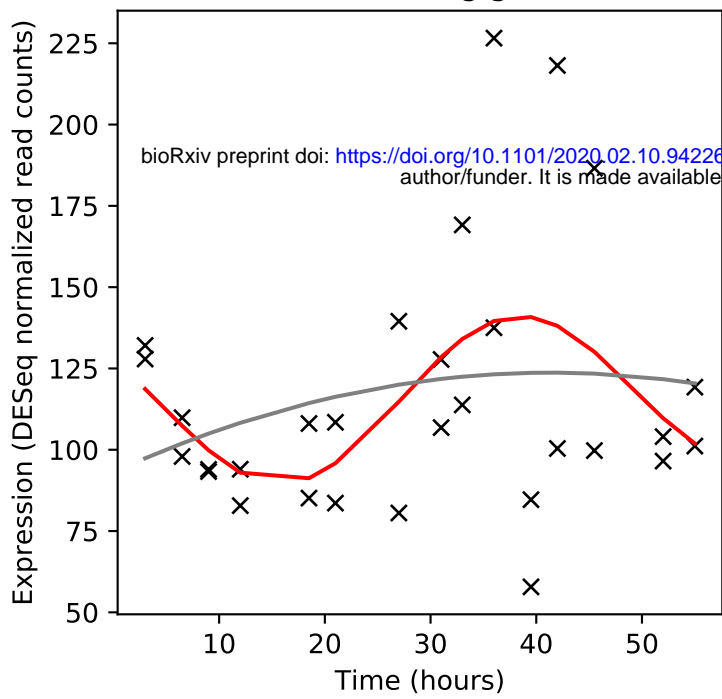
Rv1210/tagA



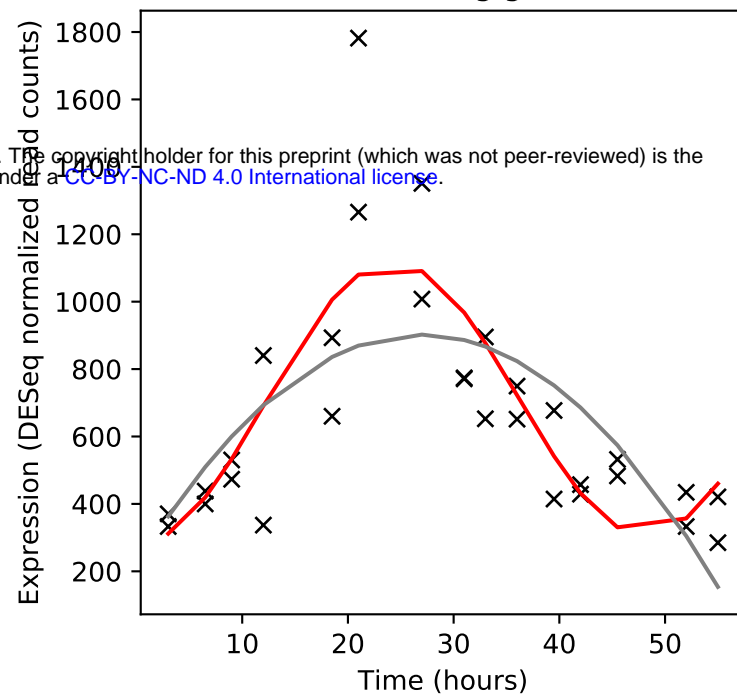
Rv1211/-



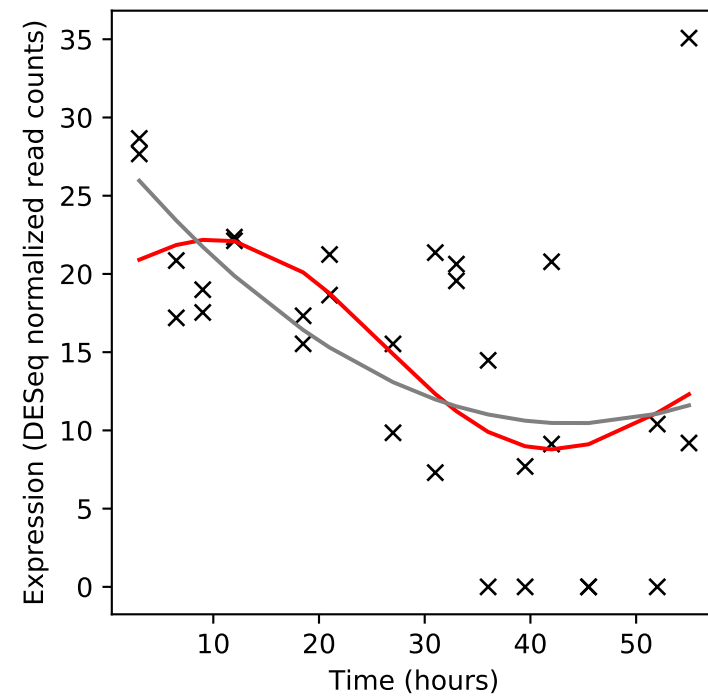
Rv1212c/glgA



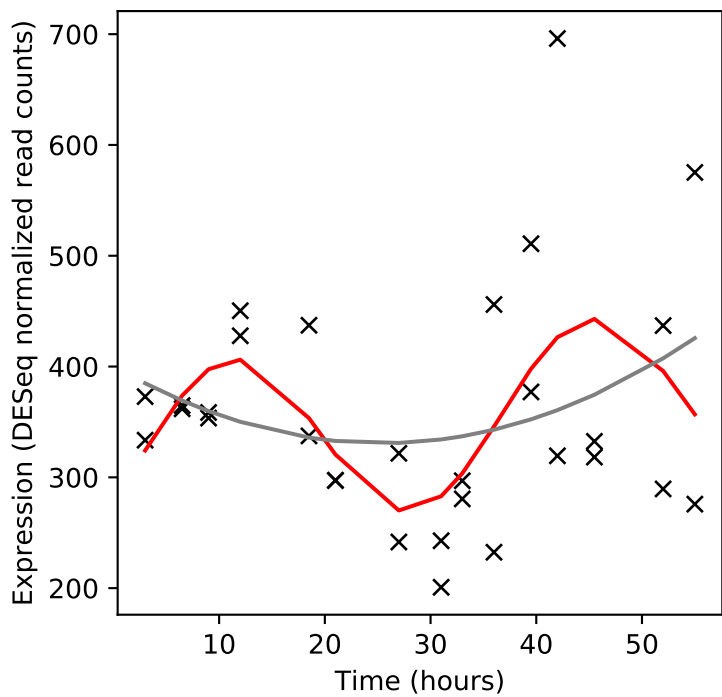
Rv1213/glgC



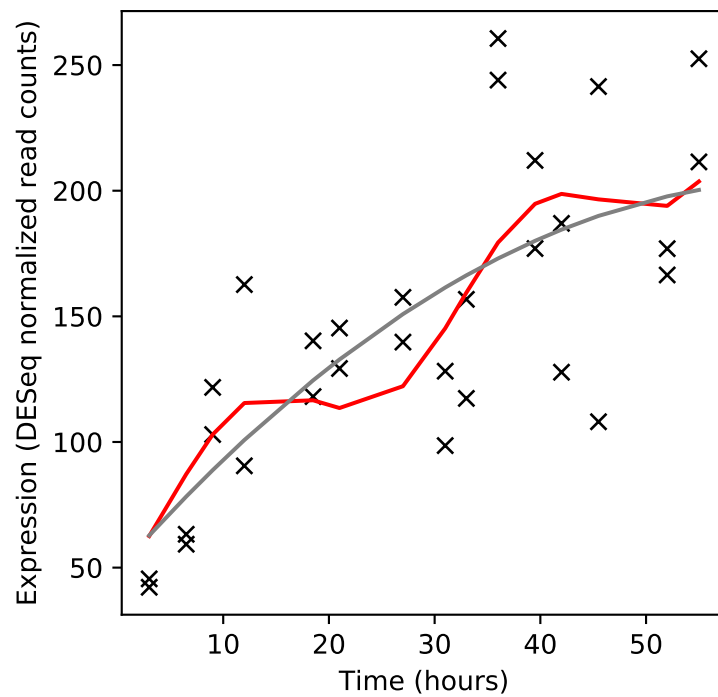
Rv1214c/PE14



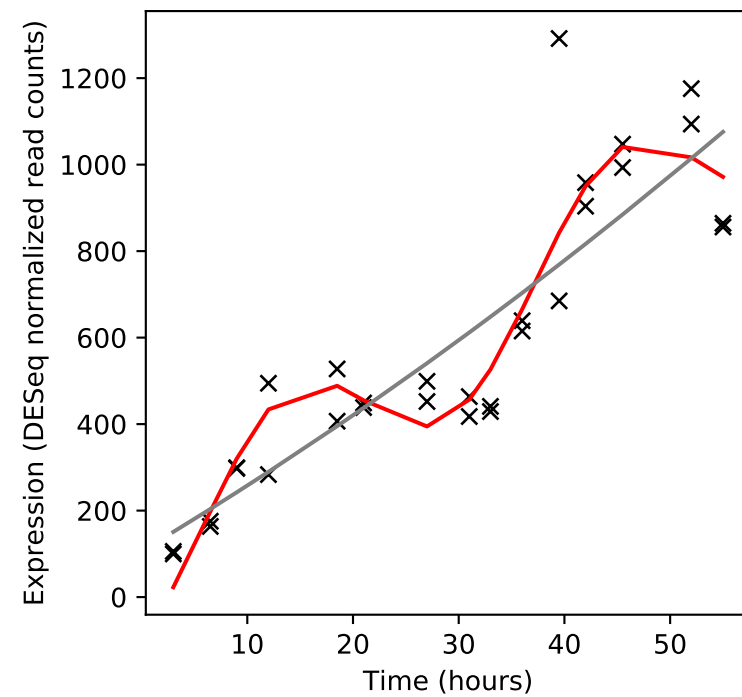
Rv1215c/-



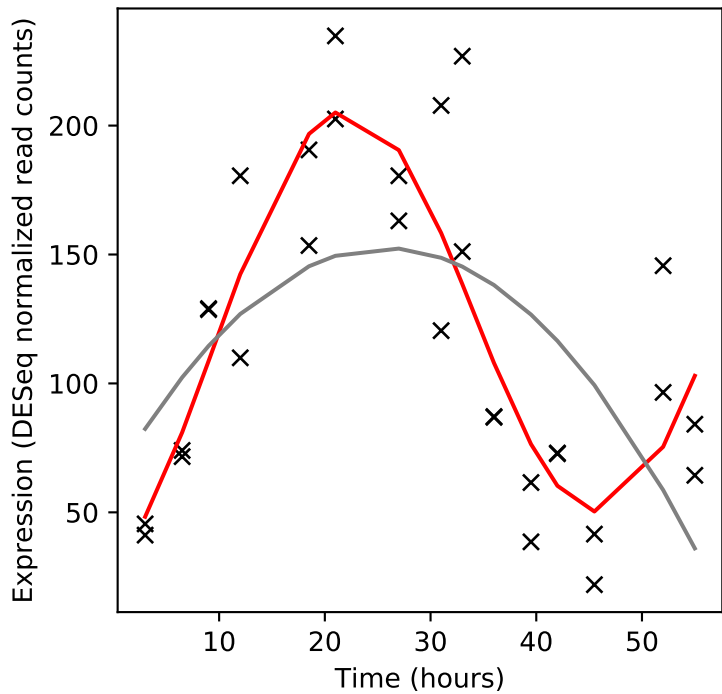
Rv1216c/-



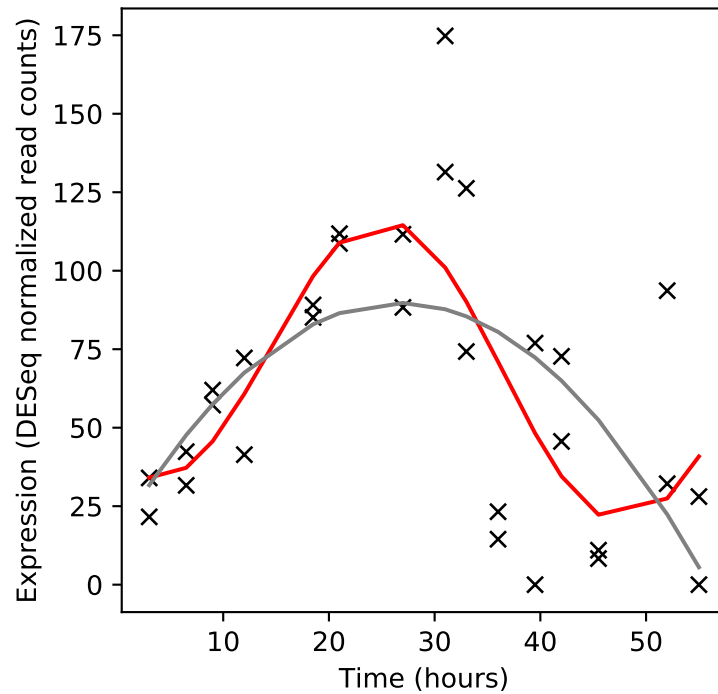
Rv1217c/-



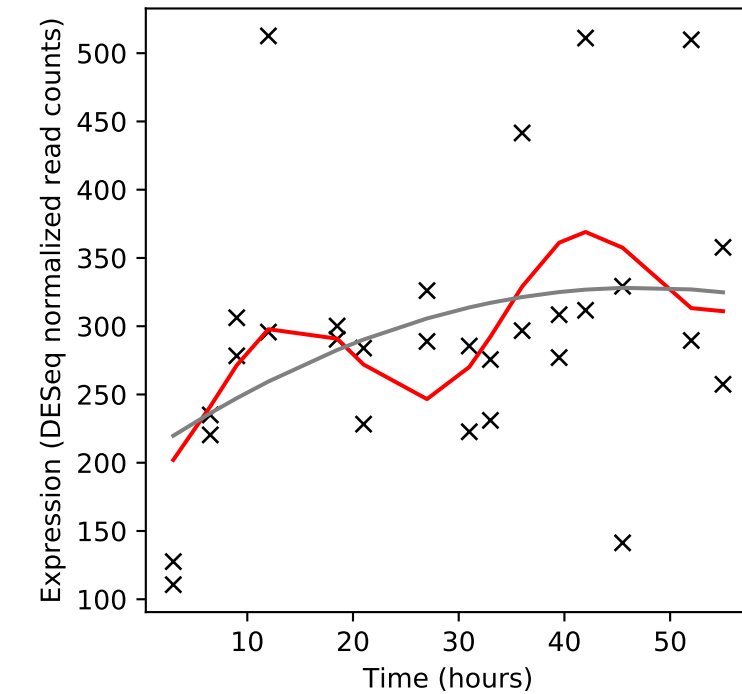
Rv1218c/-



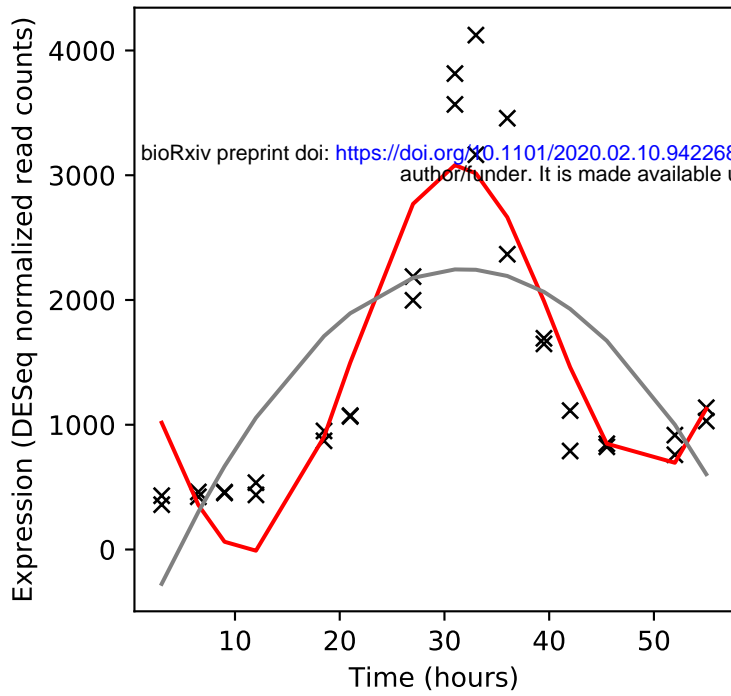
Rv1219c/-



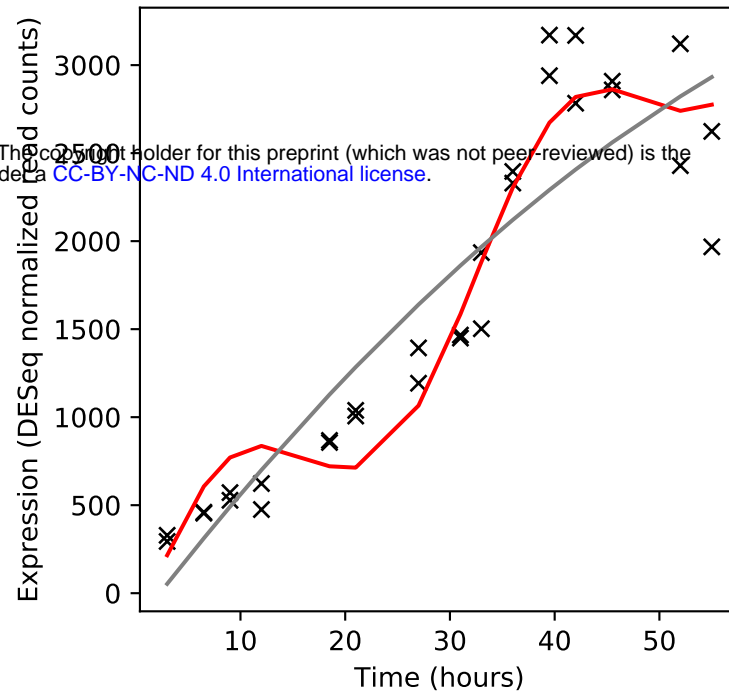
Rv1220c/-



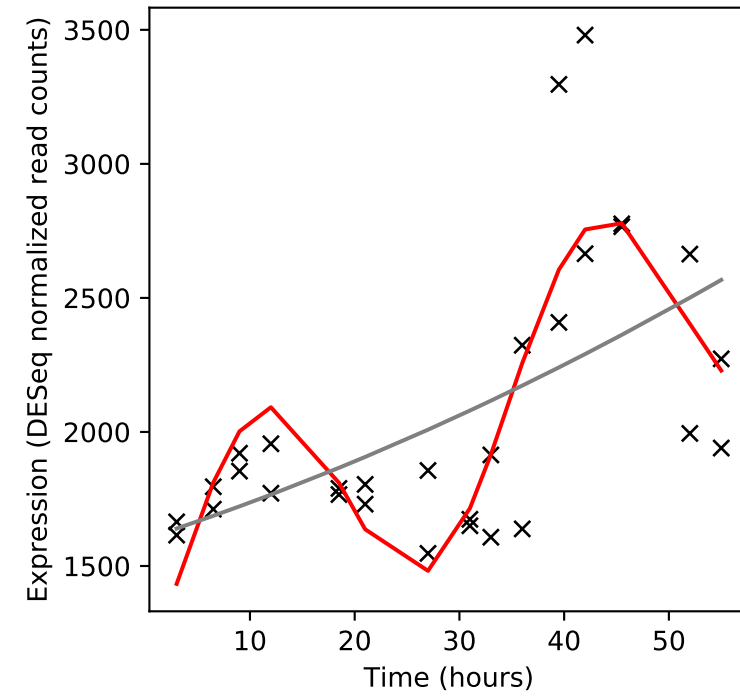
Rv1221/sigE



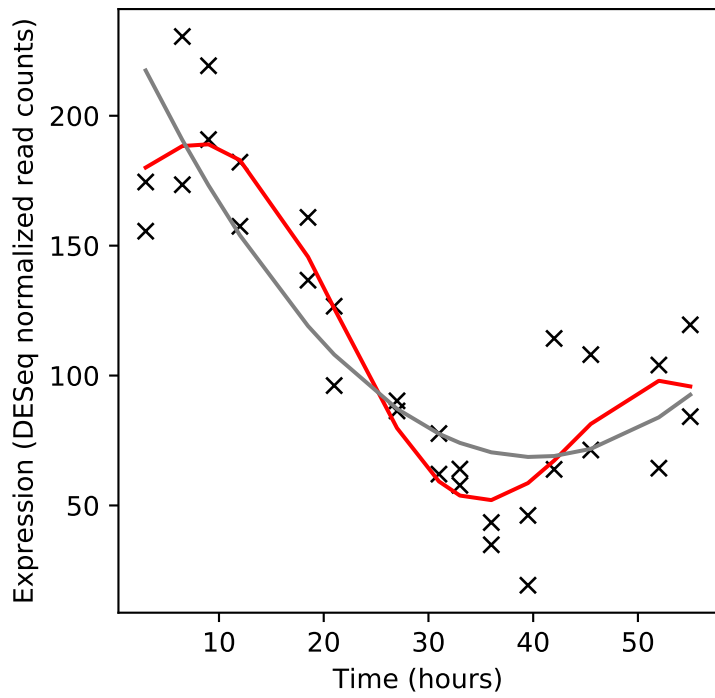
Rv1222/rseA



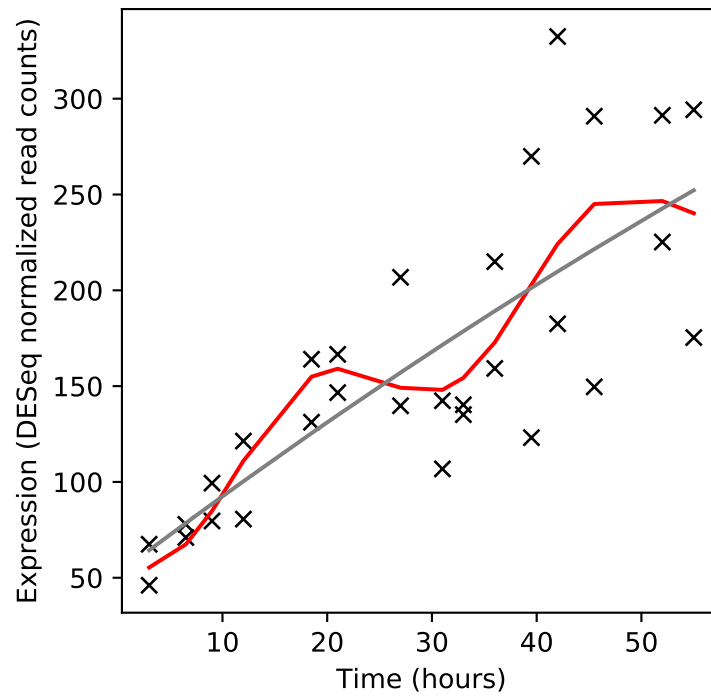
Rv1223/htrA



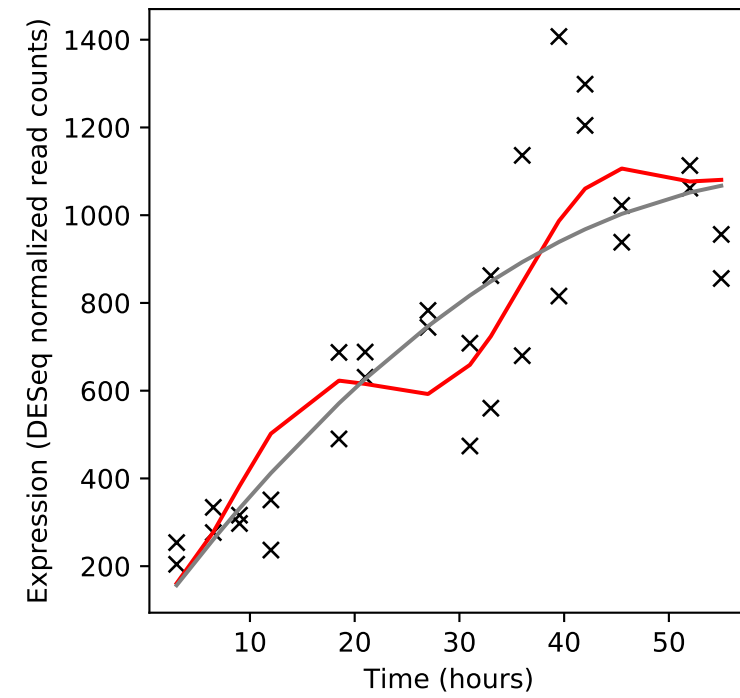
Rv1224/tatB



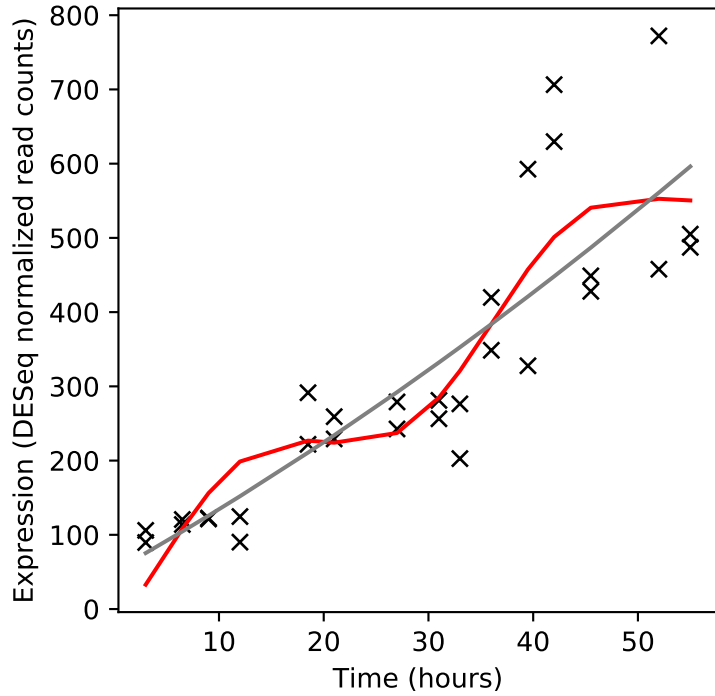
Rv1225c/-



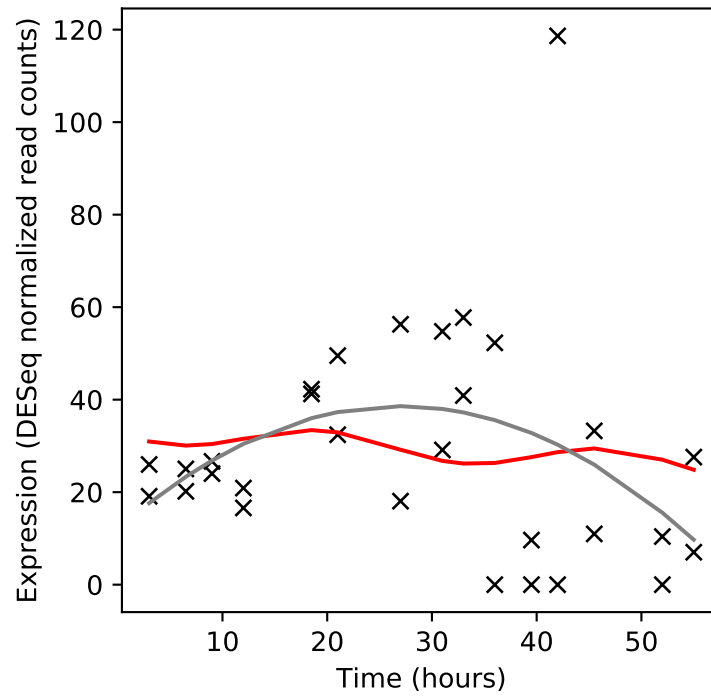
Rv1226c/-



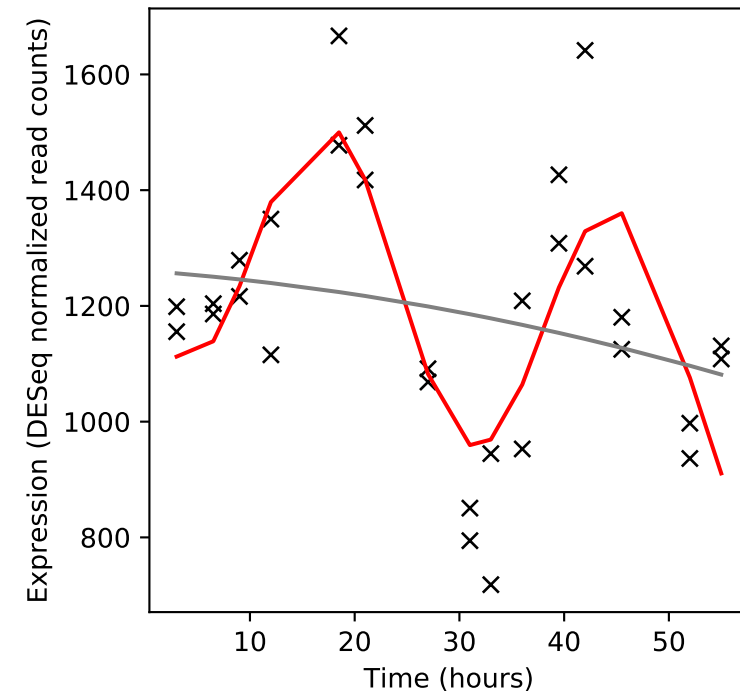
Rv1227c/-



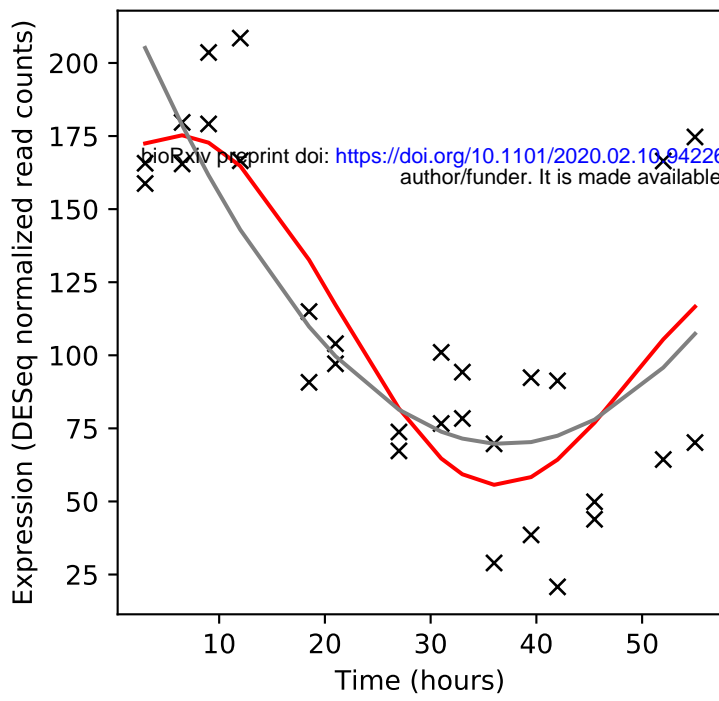
Rv1228/lpqX



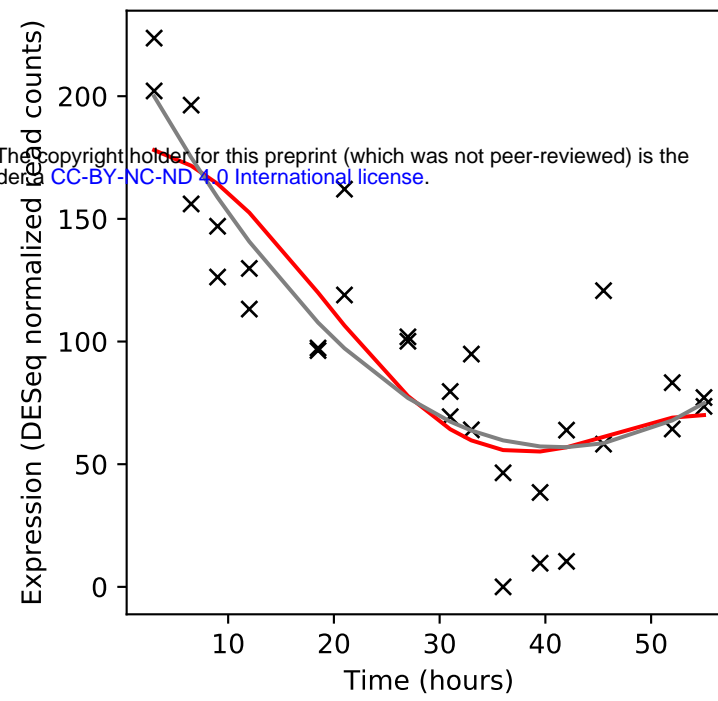
Rv1229c/mrp



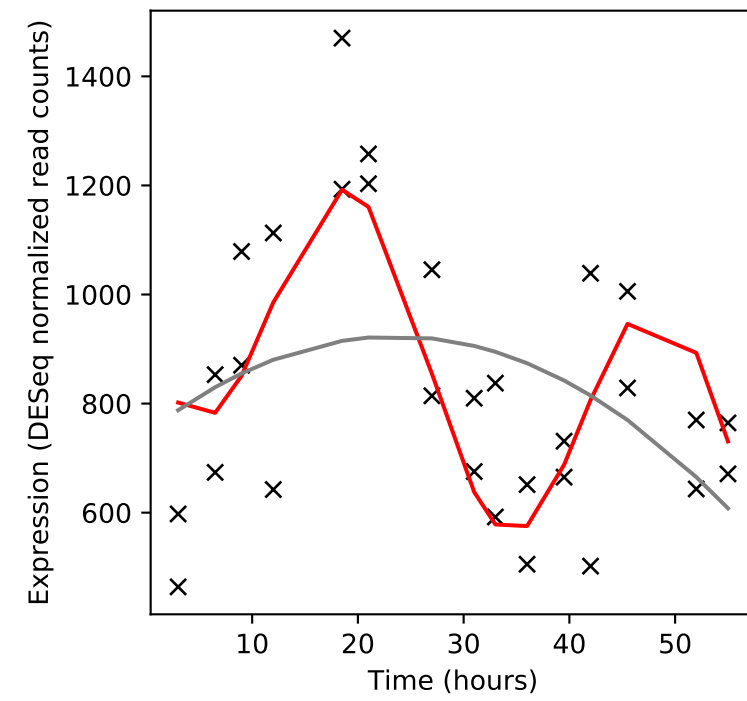
Rv1230c/-



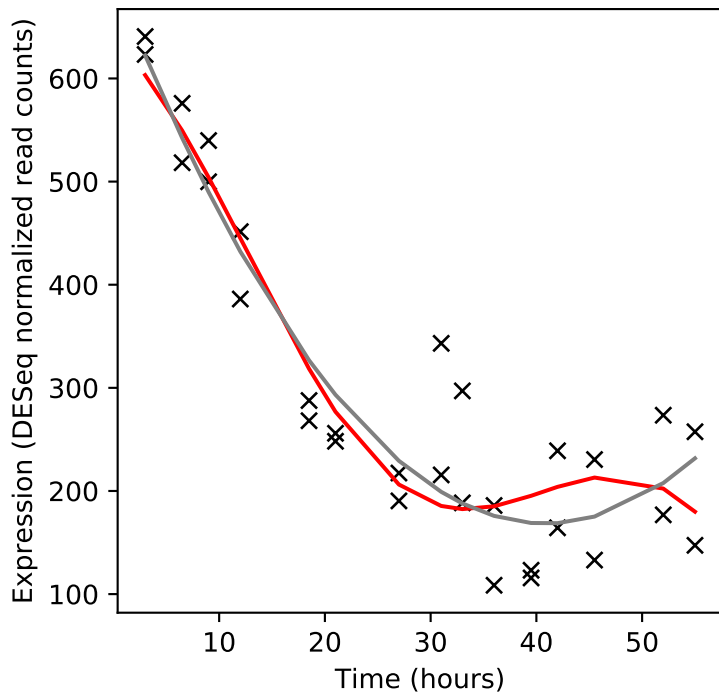
Rv1231c/-



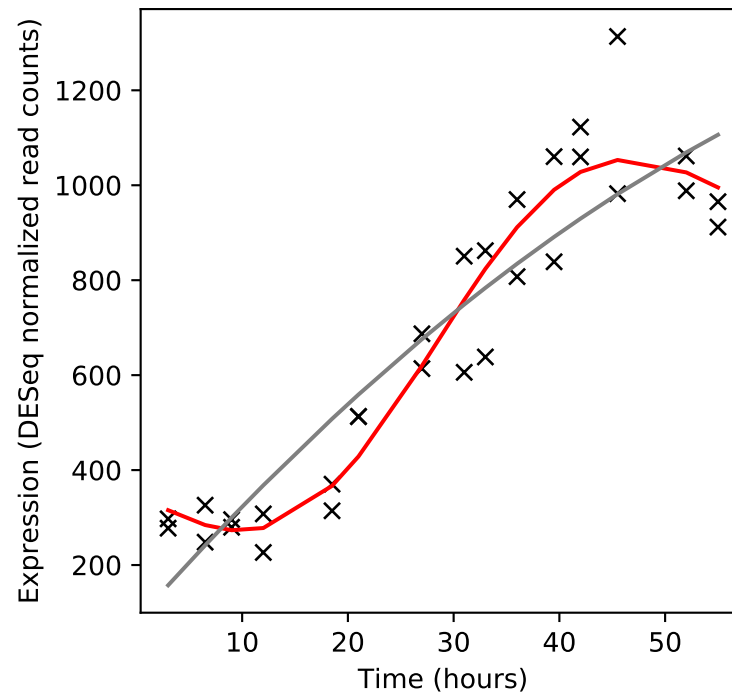
Rv1232c/-



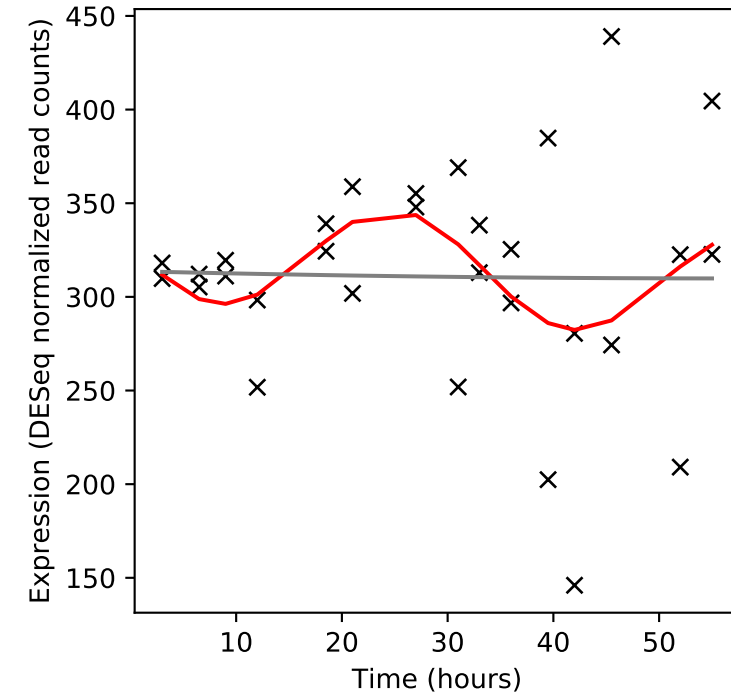
Rv1233c/-



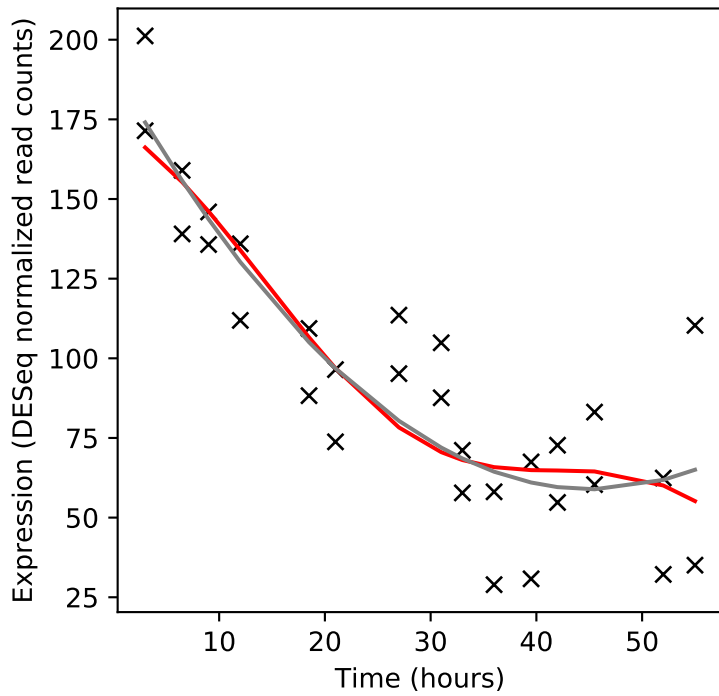
Rv1234/-



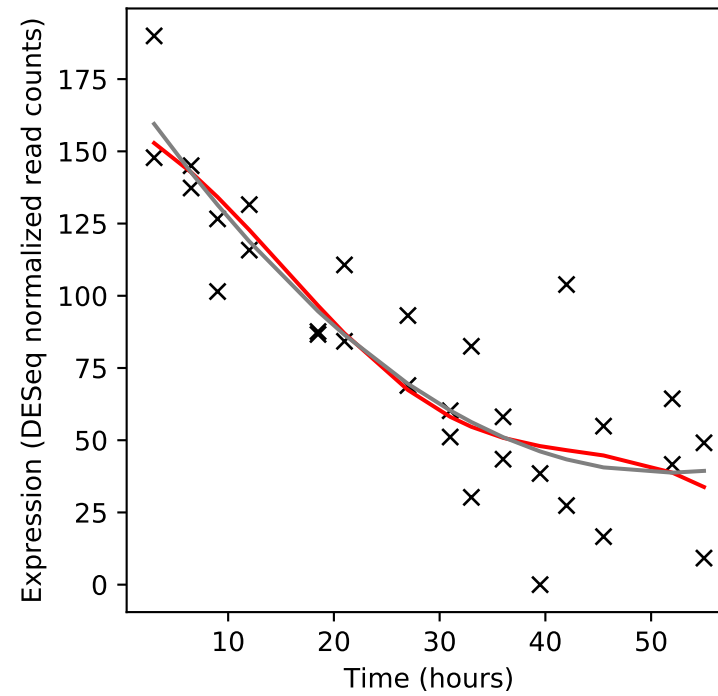
Rv1235/lpqY



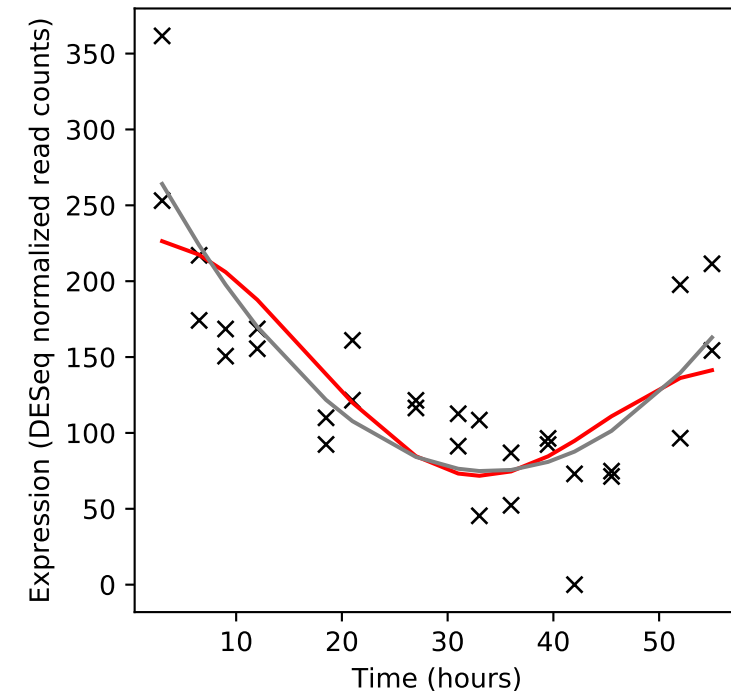
Rv1236/sugA



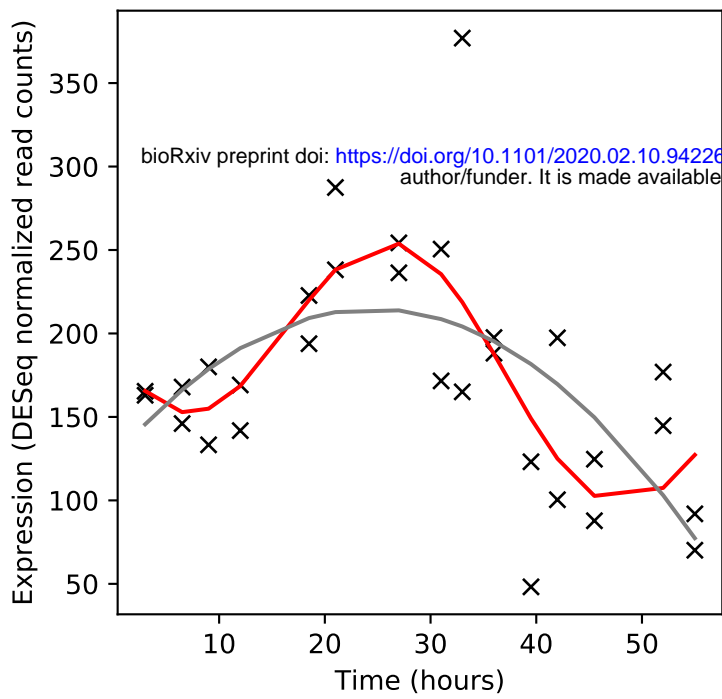
Rv1237/sugB



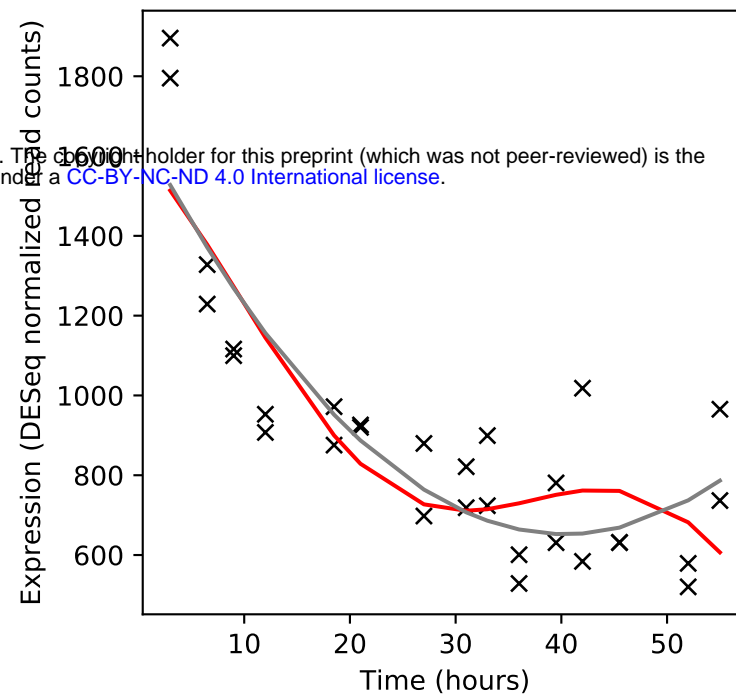
Rv1238/sugC



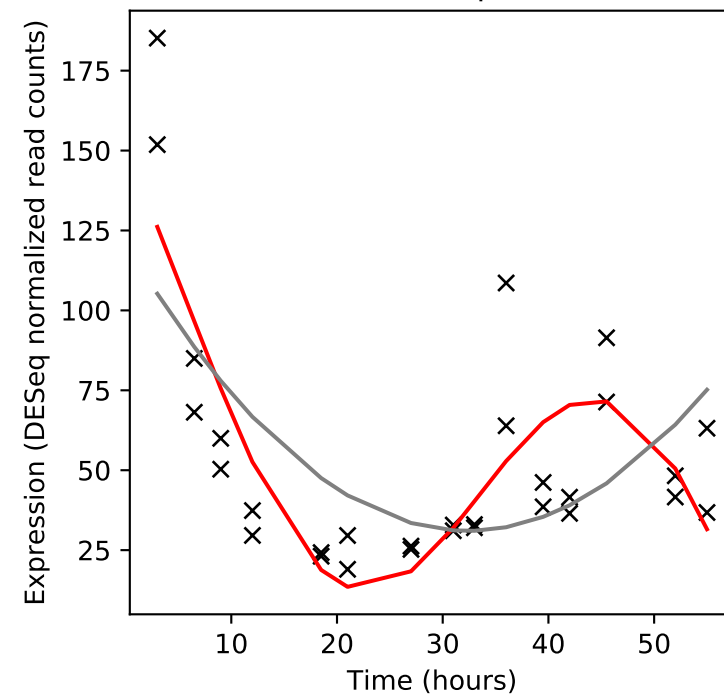
Rv1239c/corA



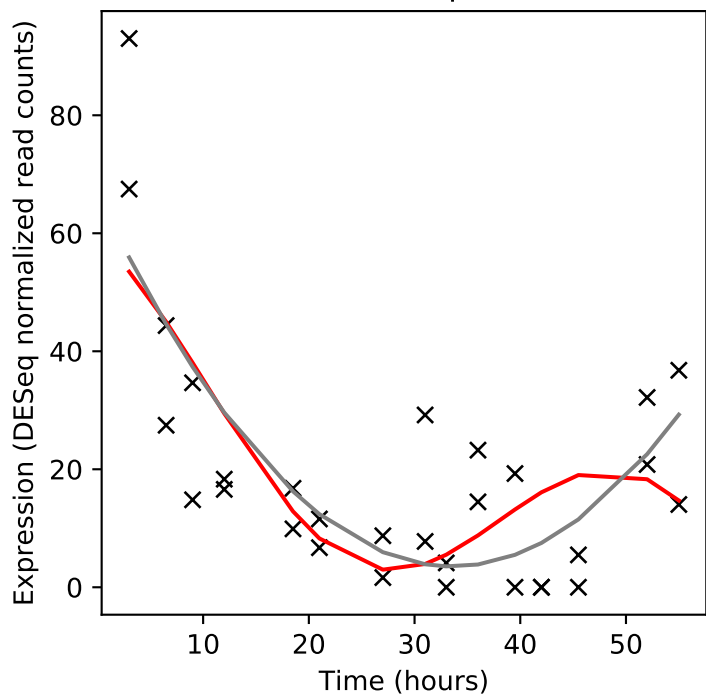
Rv1240/mdh



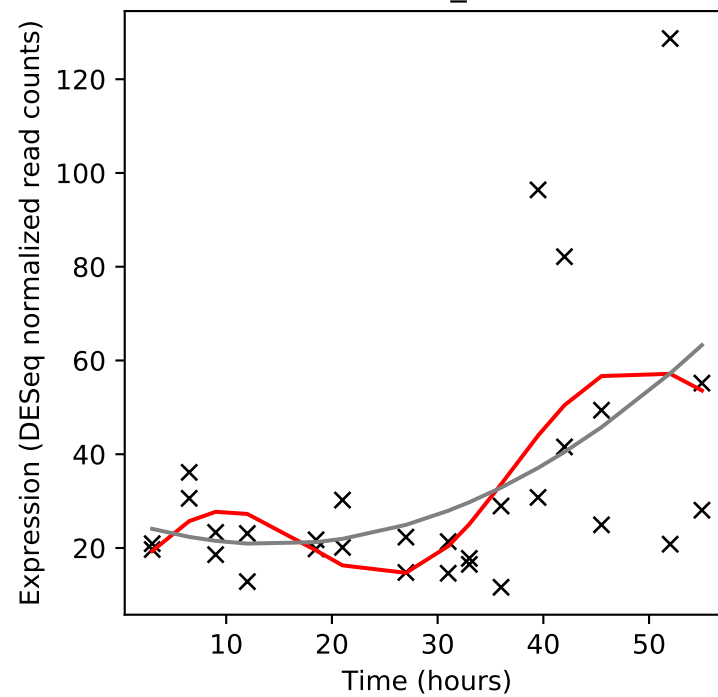
Rv1241/vapB33



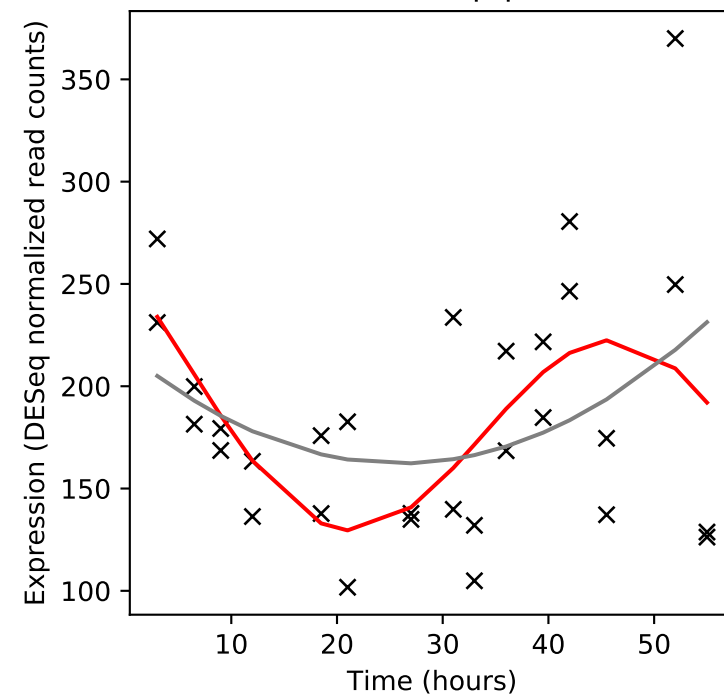
Rv1242/vapC33



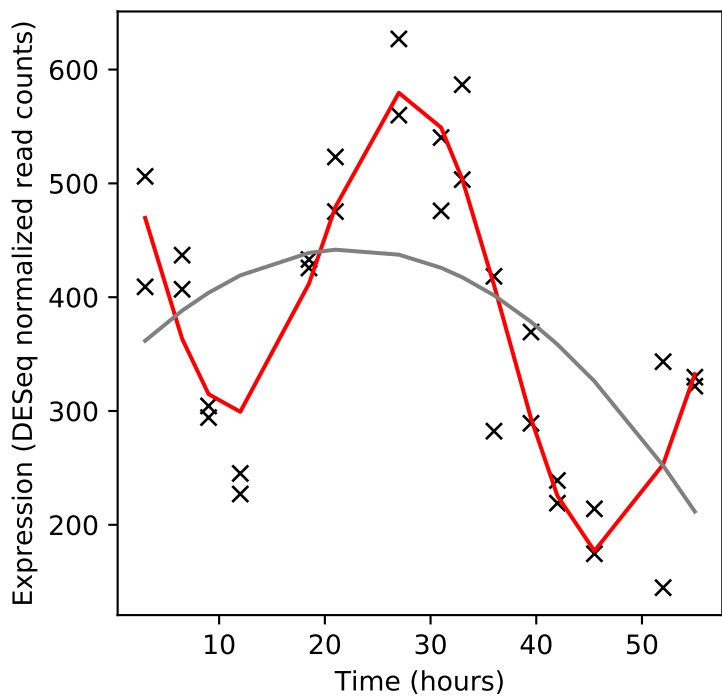
Rv1243c/PE_PGRS23



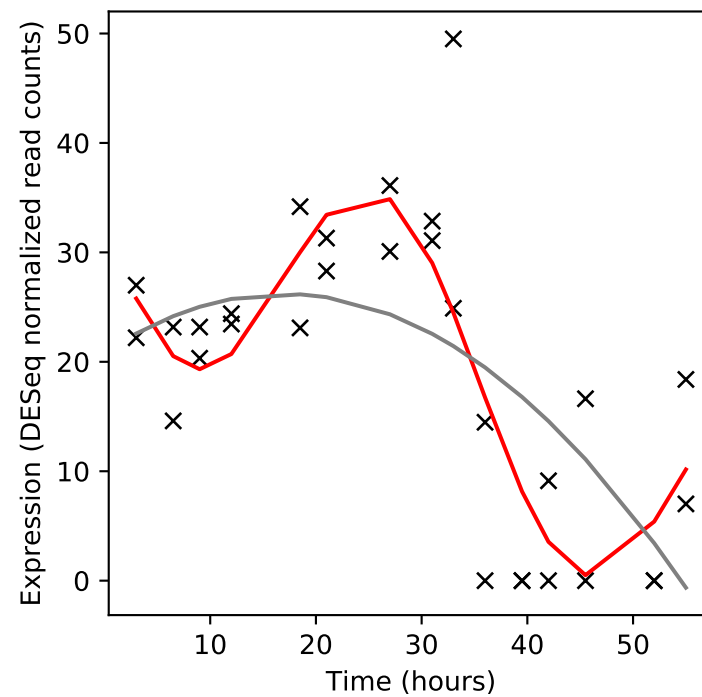
Rv1244/lpqZ



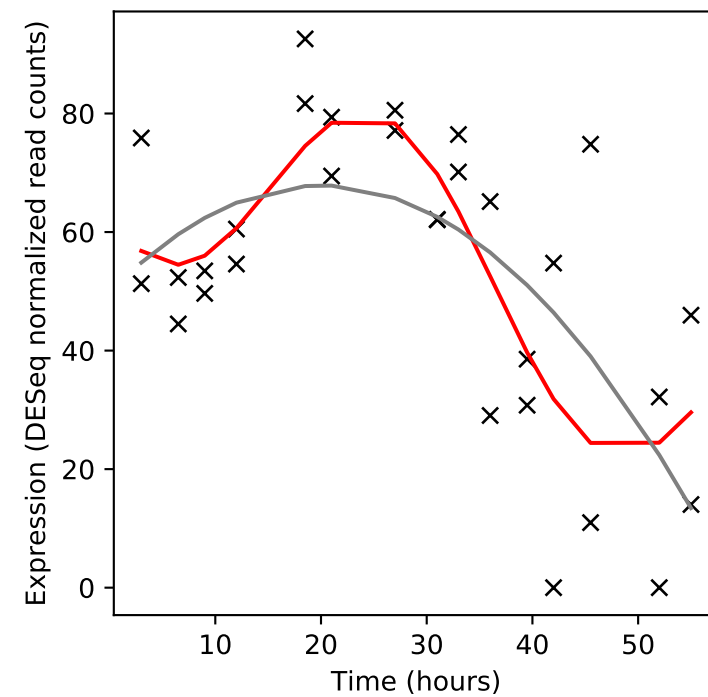
Rv1245c/-



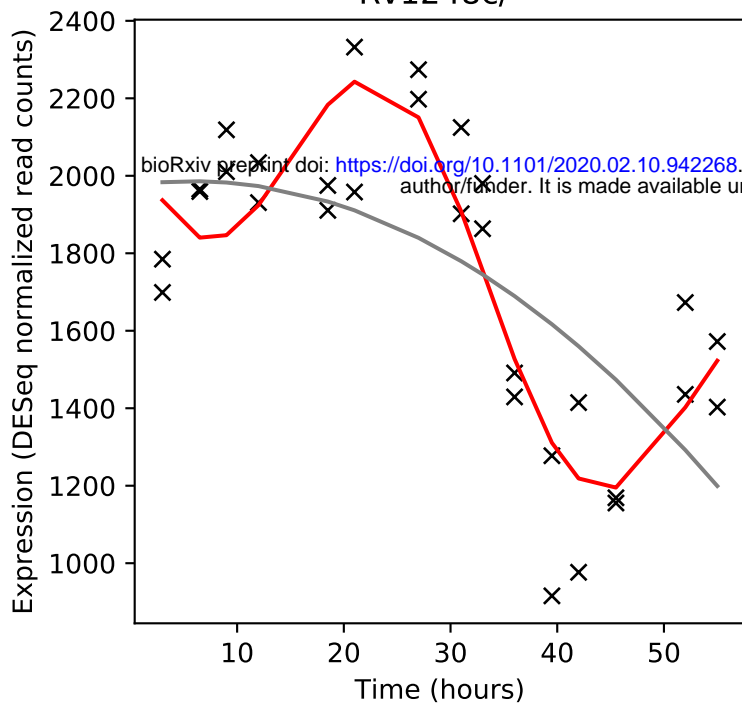
Rv1246c/reIE



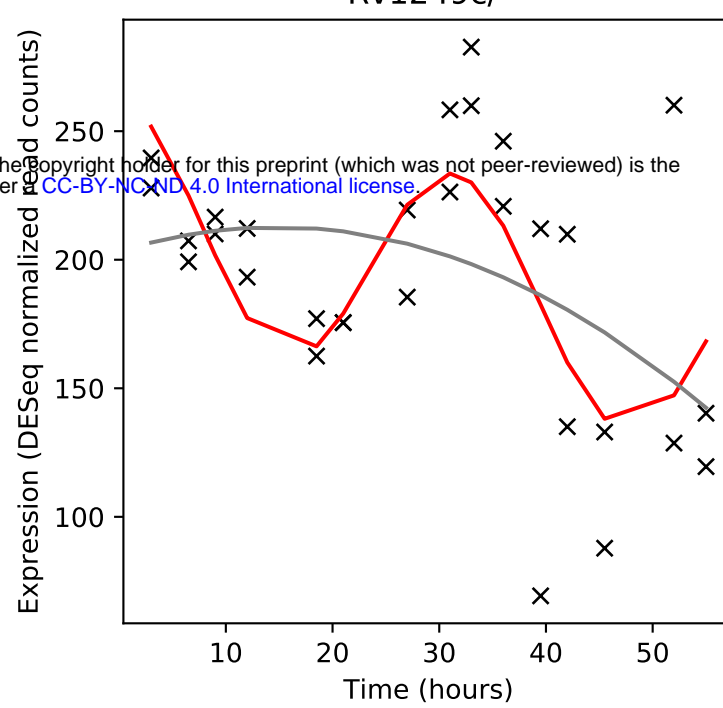
Rv1247c/reIB



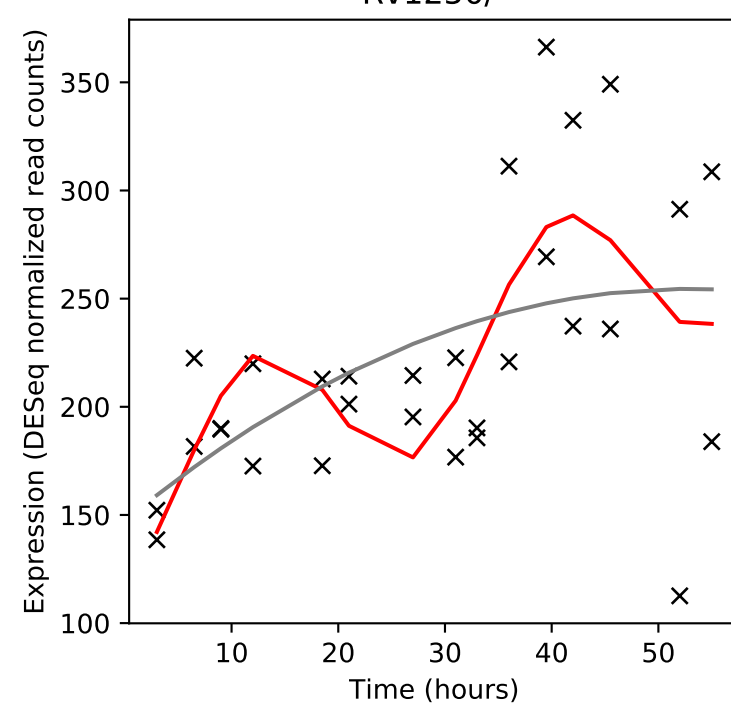
Rv1248c/-



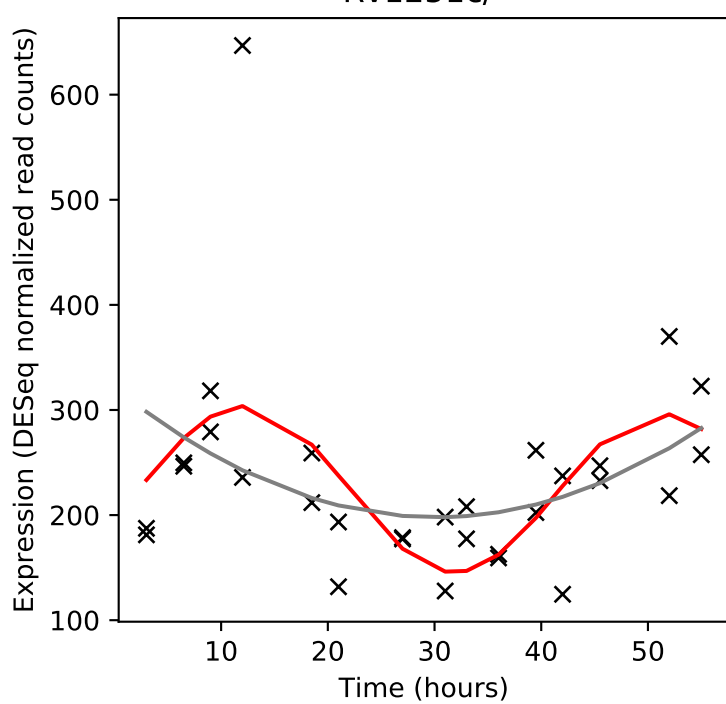
Rv1249c/-



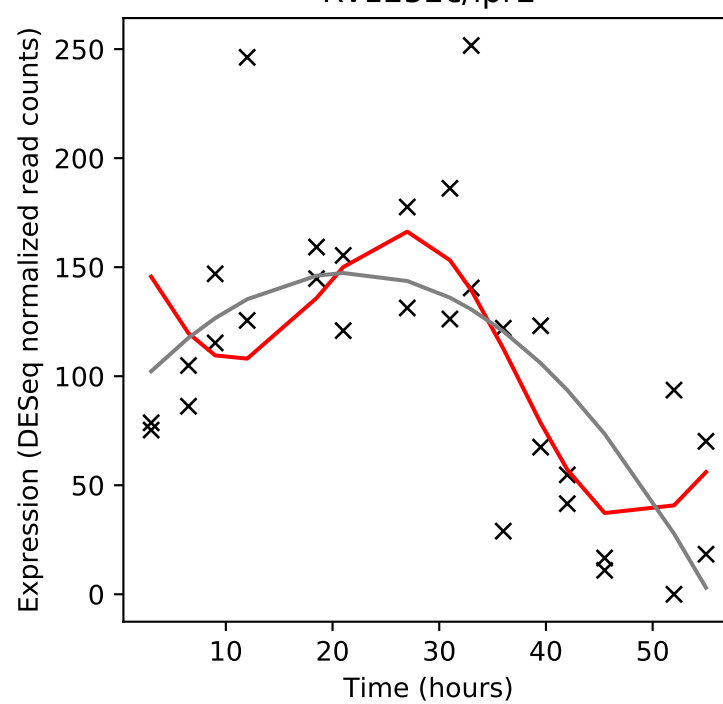
Rv1250/-



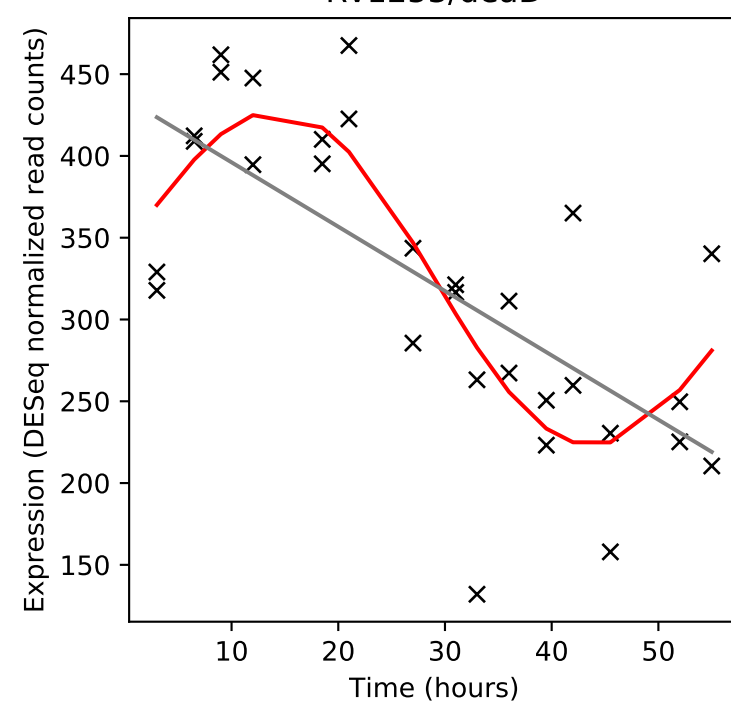
Rv1251c/-



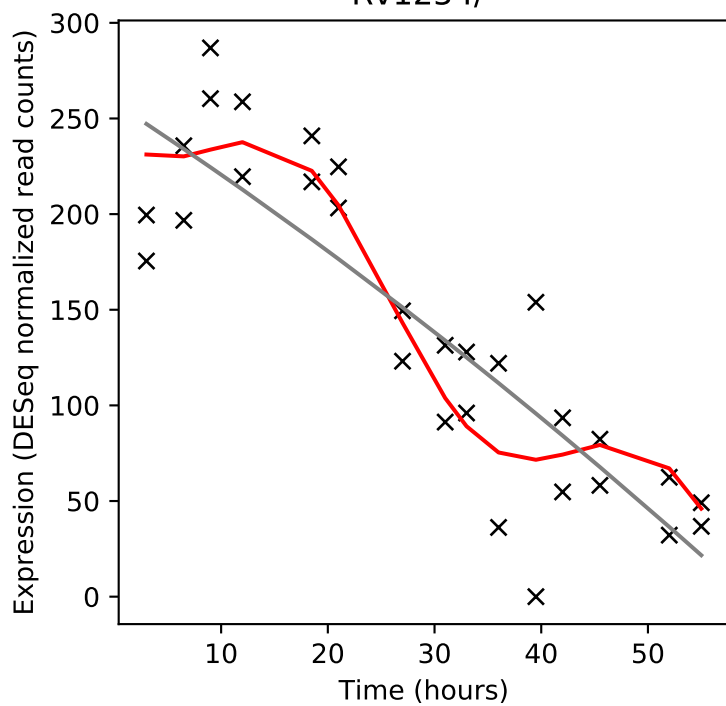
Rv1252c/lprE



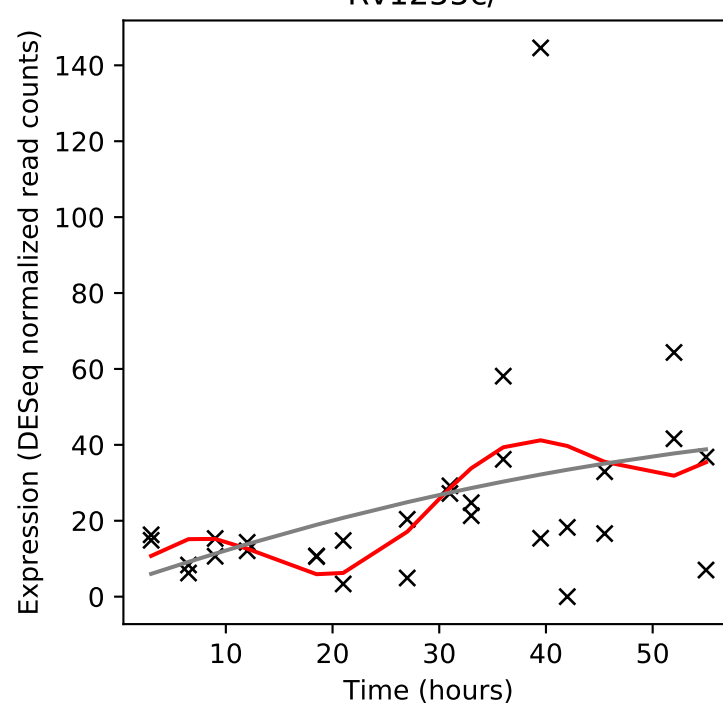
Rv1253/deaD



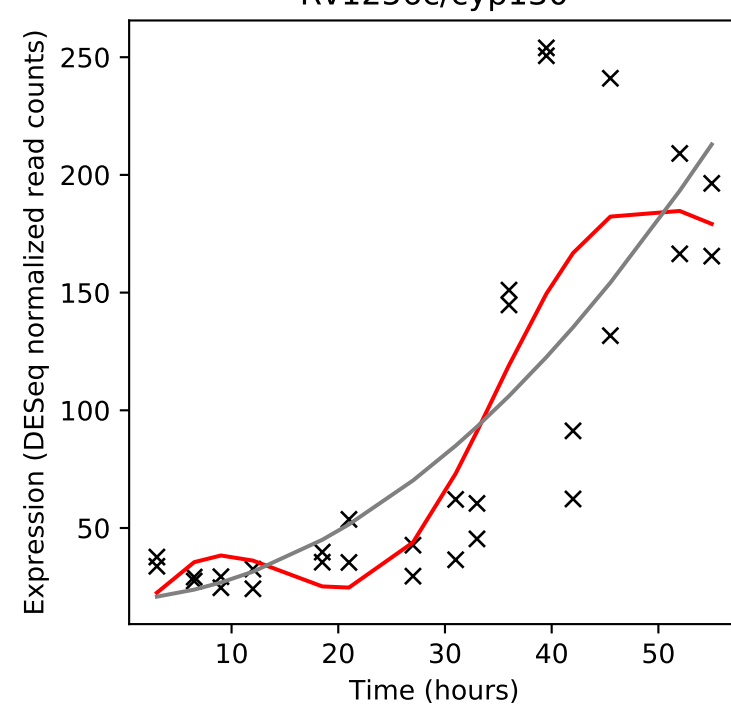
Rv1254/-



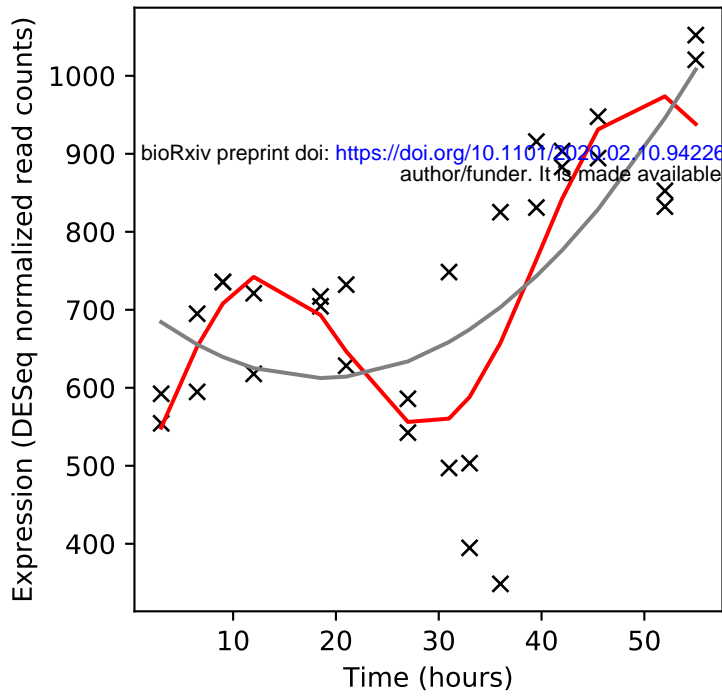
Rv1255c/-



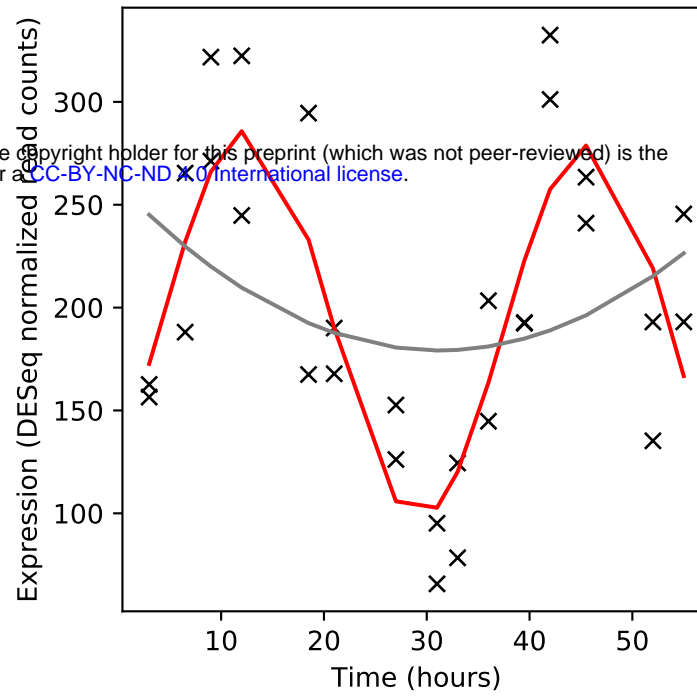
Rv1256c/cyp130



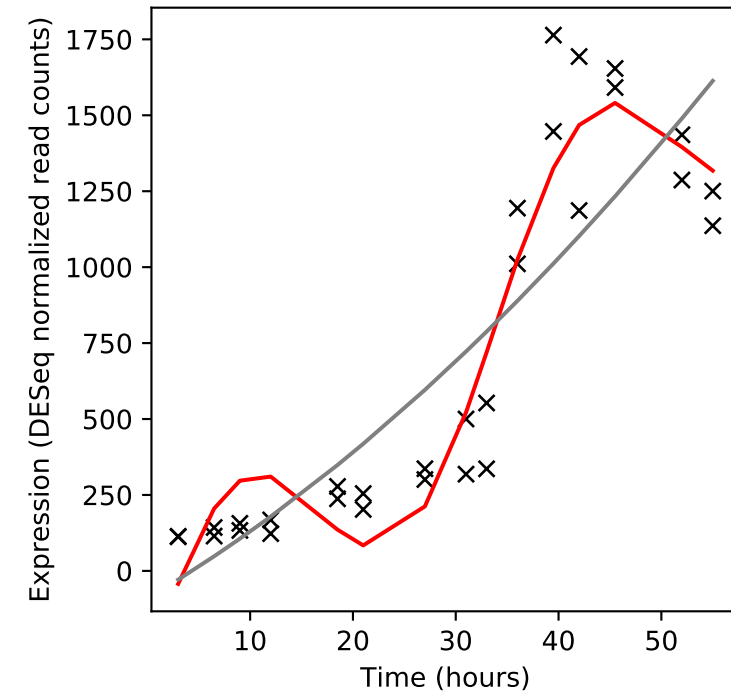
Rv1257c/-



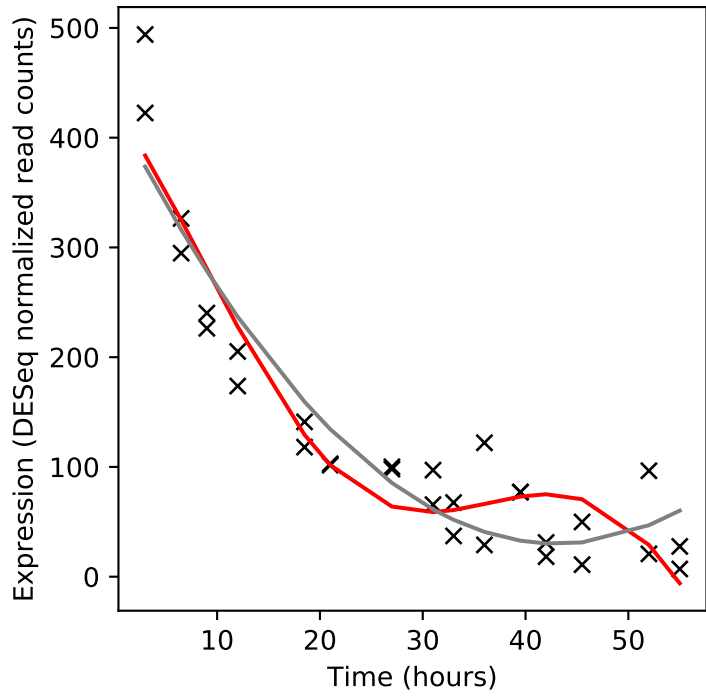
Rv1258c/-



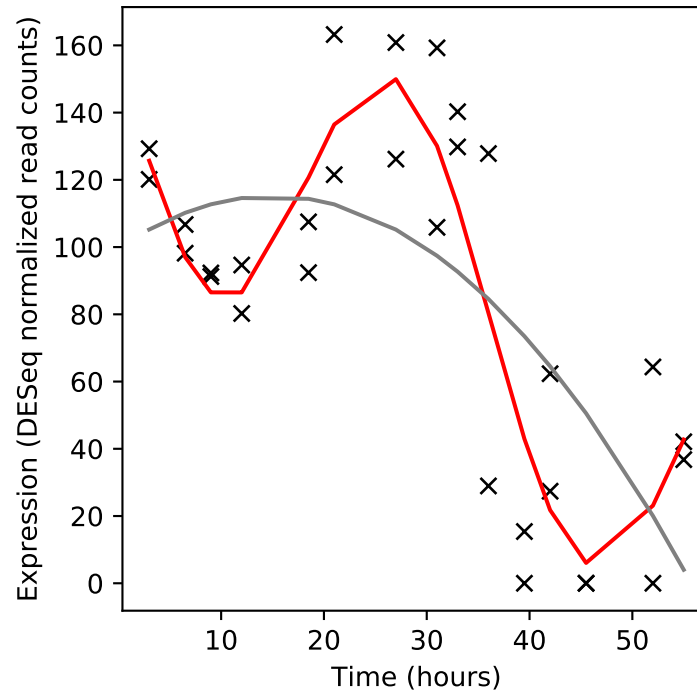
Rv1259/udgB



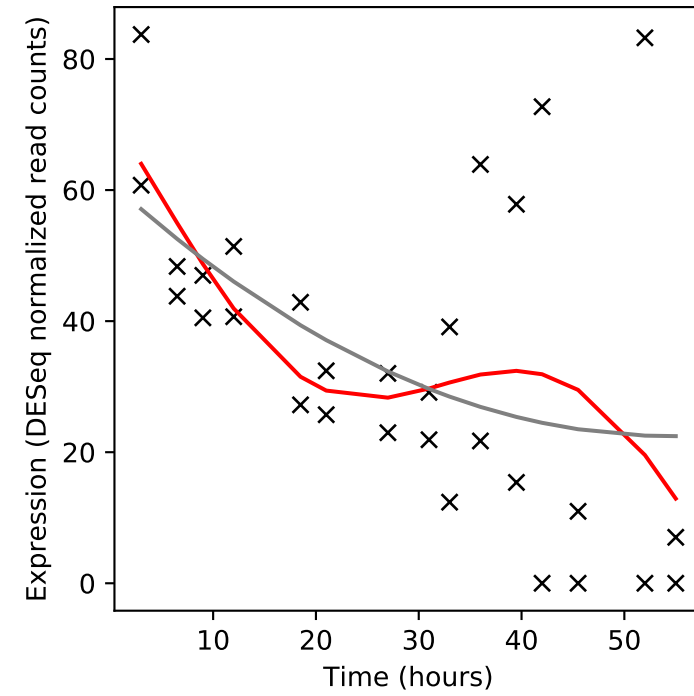
Rv1260/-



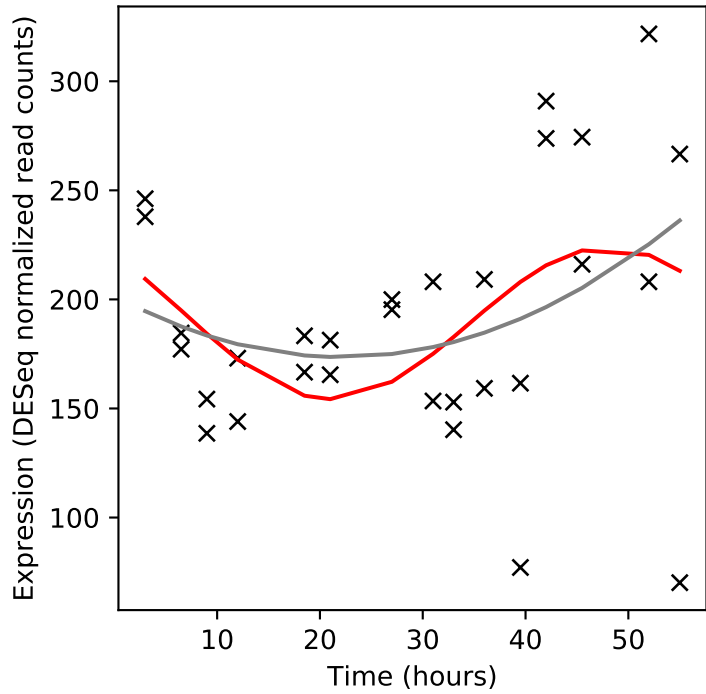
Rv1261c/-



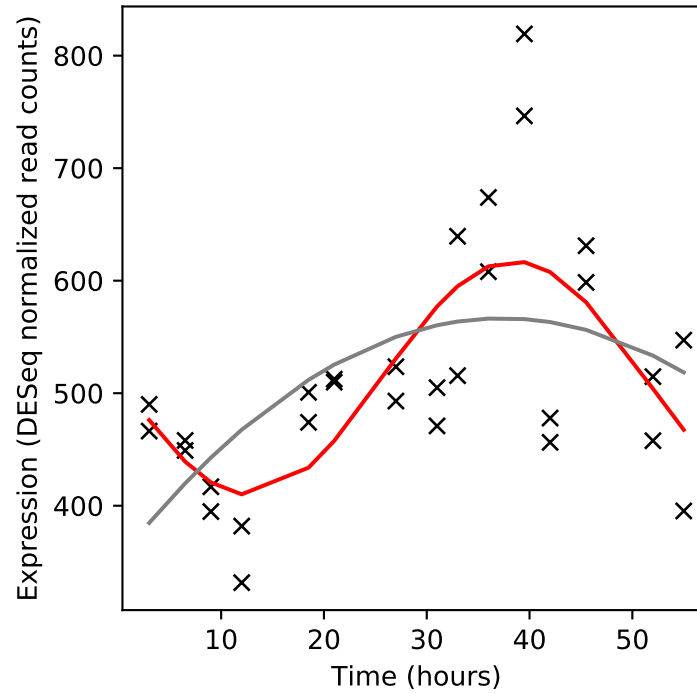
Rv1262c/-



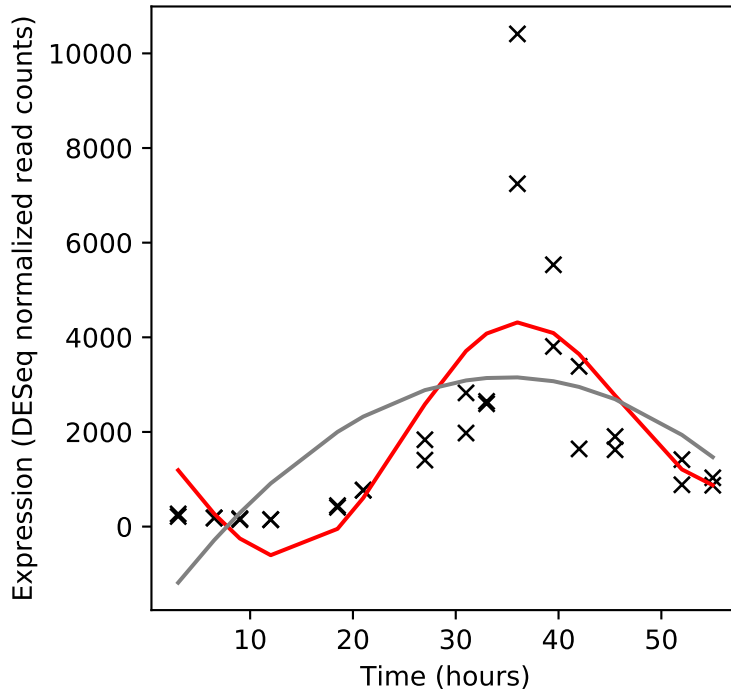
Rv1263/amiB2



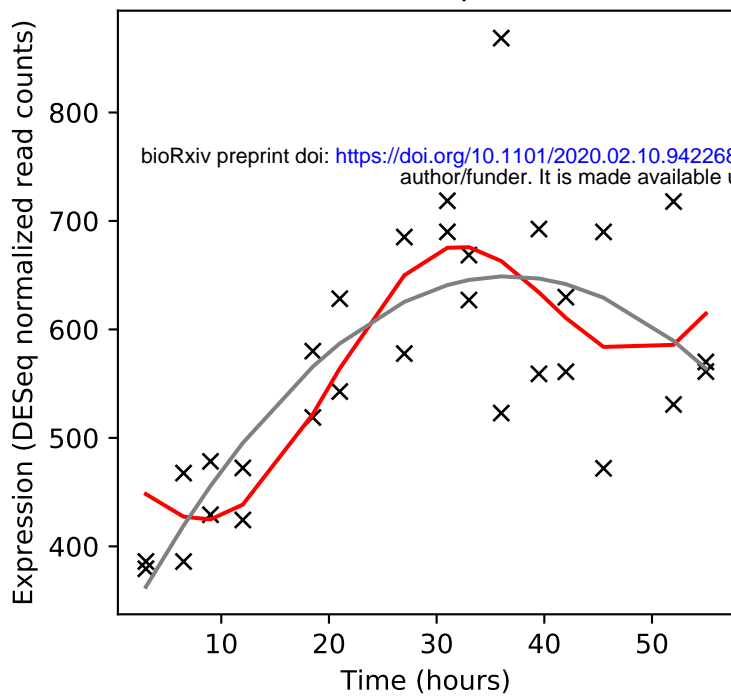
Rv1264/-



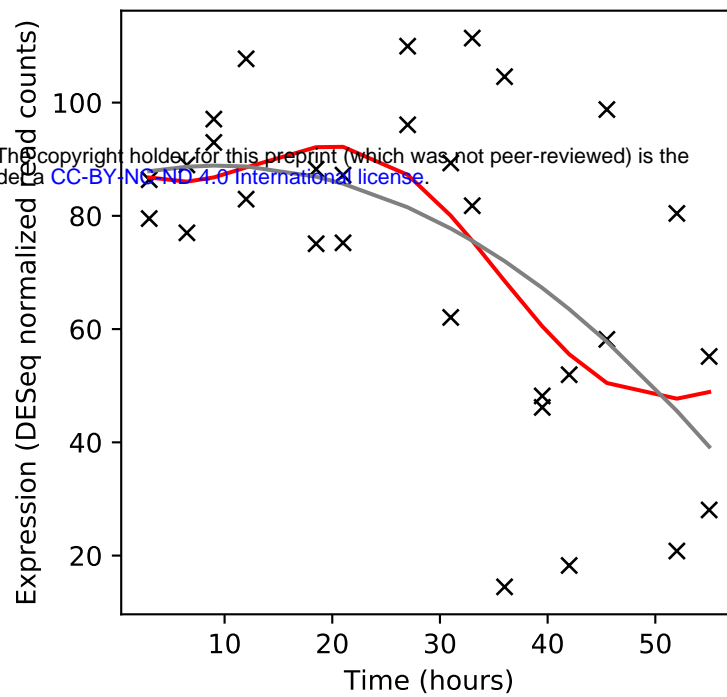
Rv1265/-



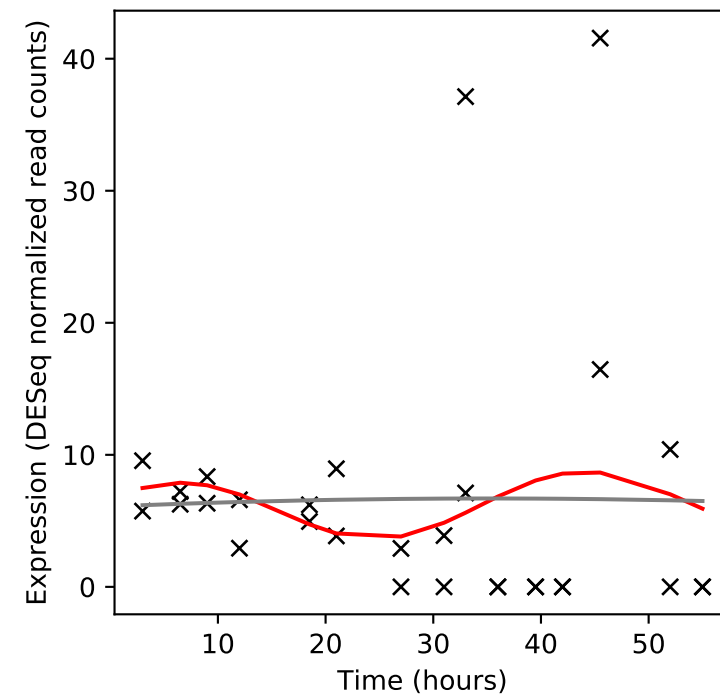
Rv1266c/pknH



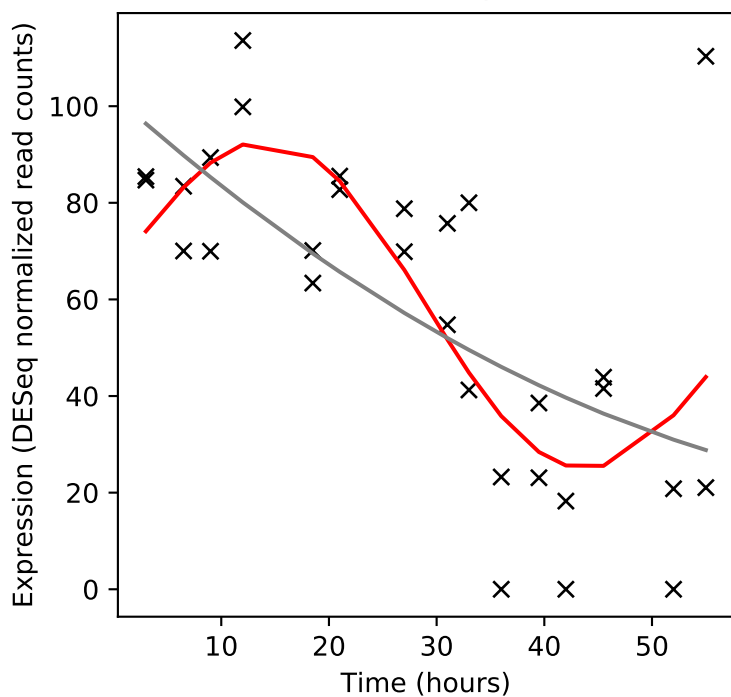
Rv1267c/embR



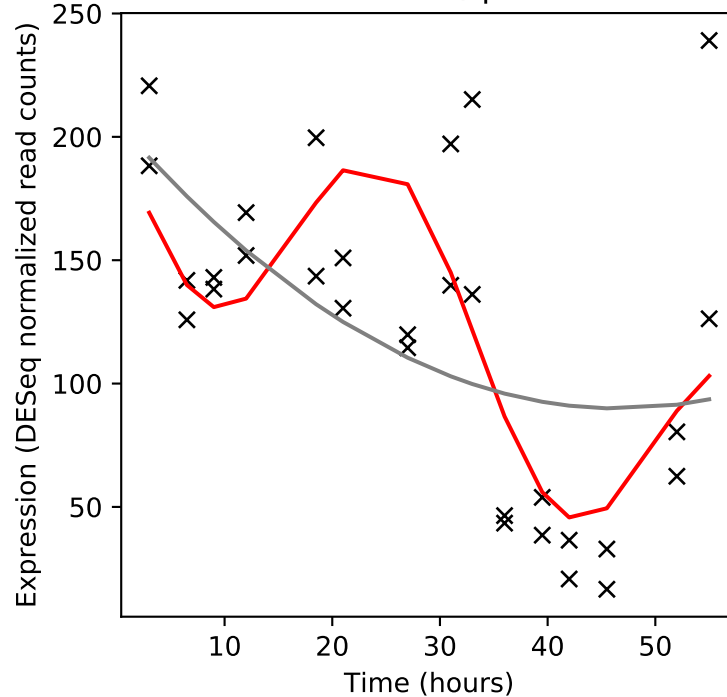
Rv1268c/-



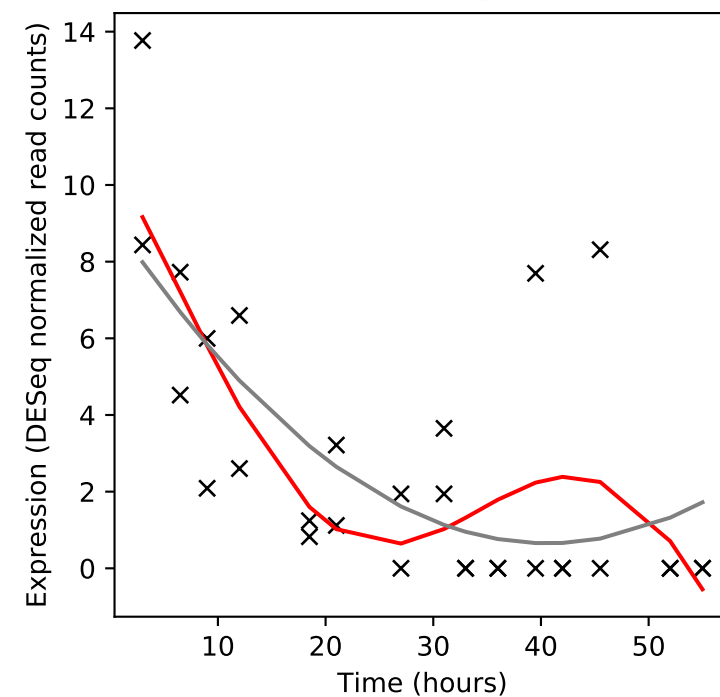
Rv1269c/-



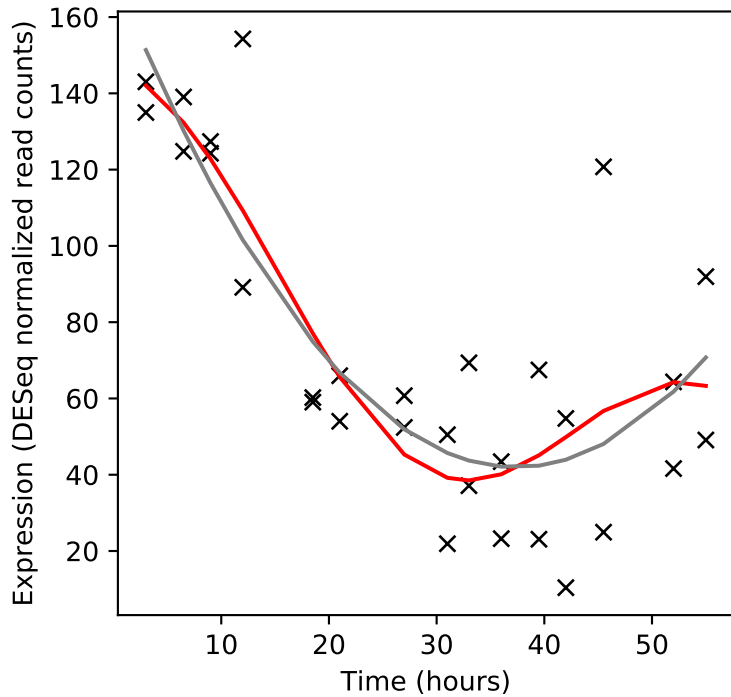
Rv1270c/lprA



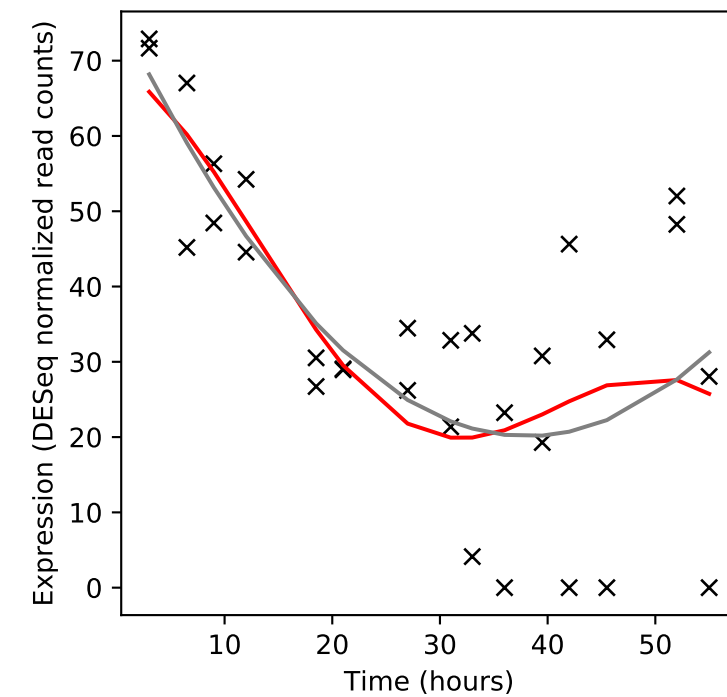
Rv1271c/-



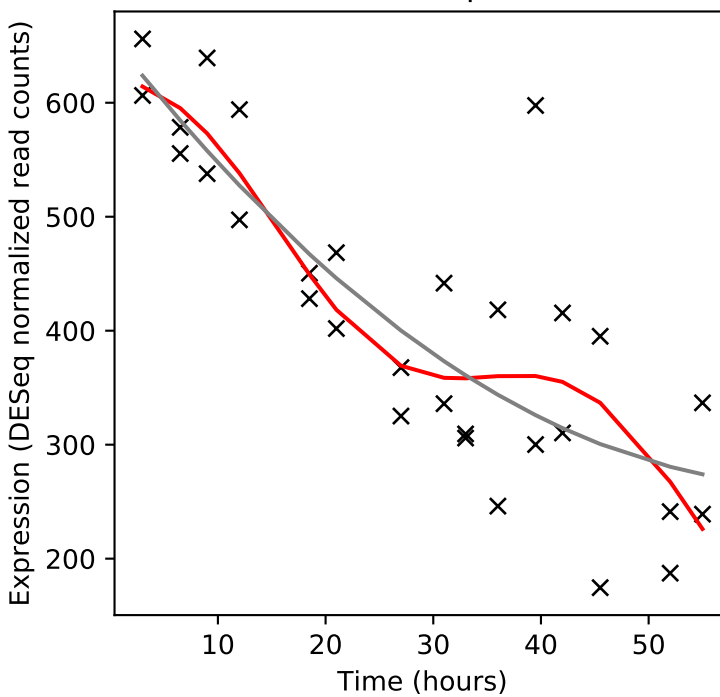
Rv1272c/-



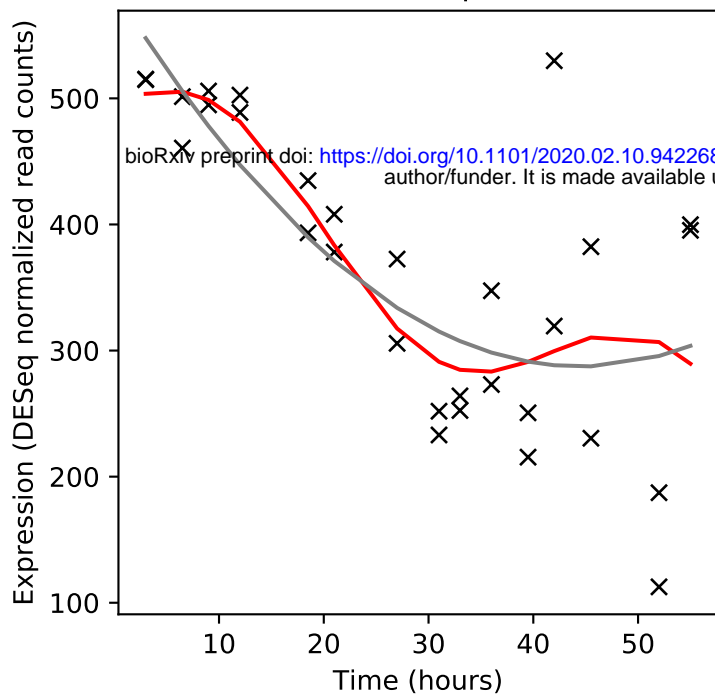
Rv1273c/-



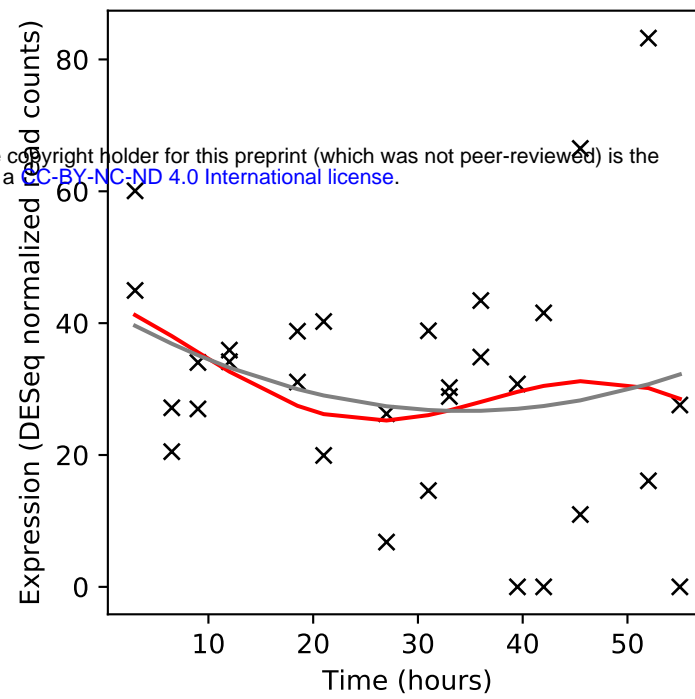
Rv1274/lprB



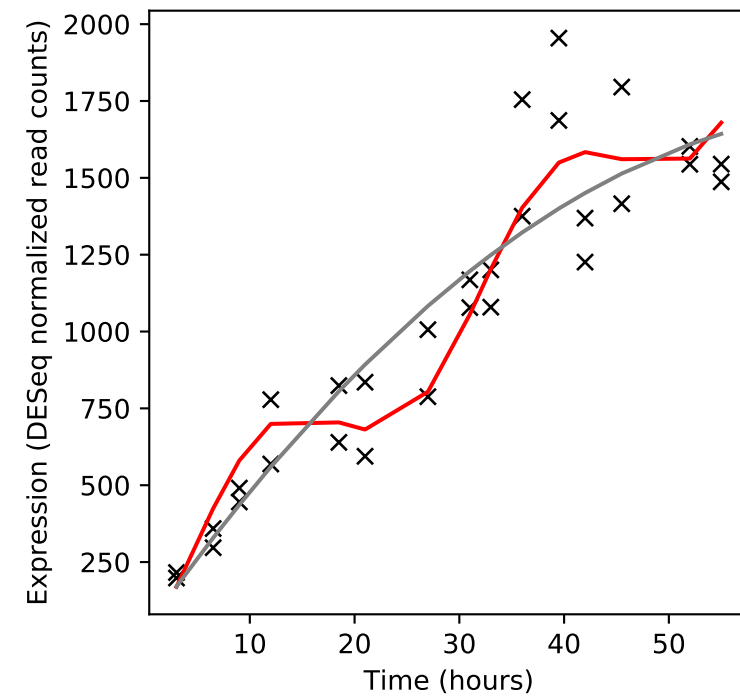
Rv1275/lprC



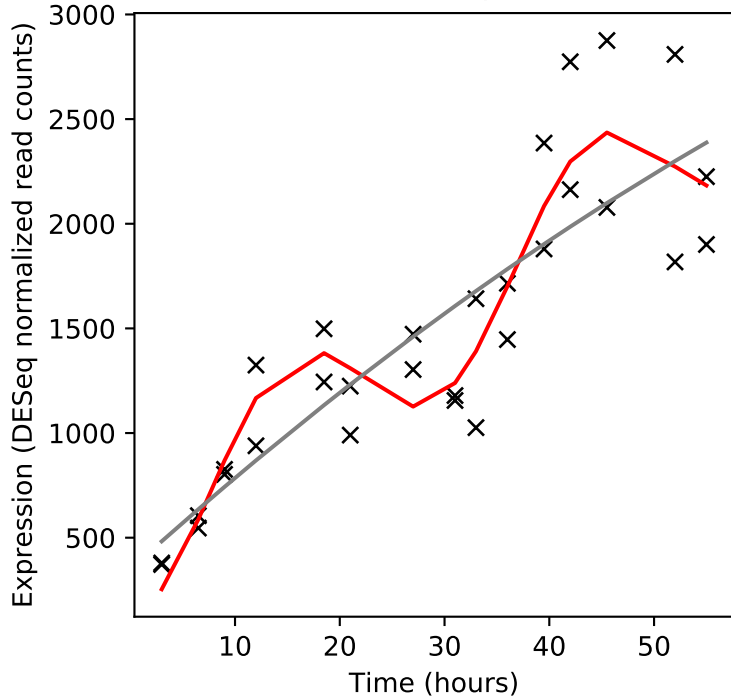
Rv1276c/-



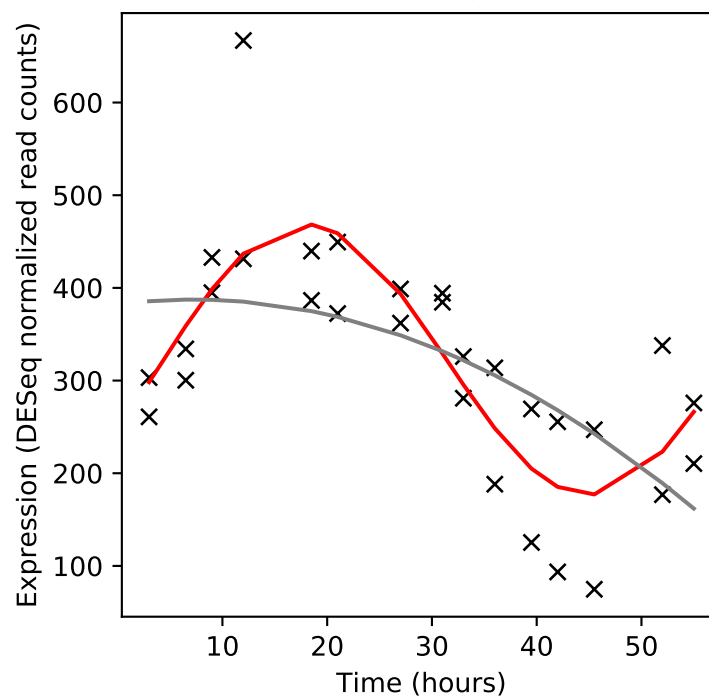
Rv1277/-



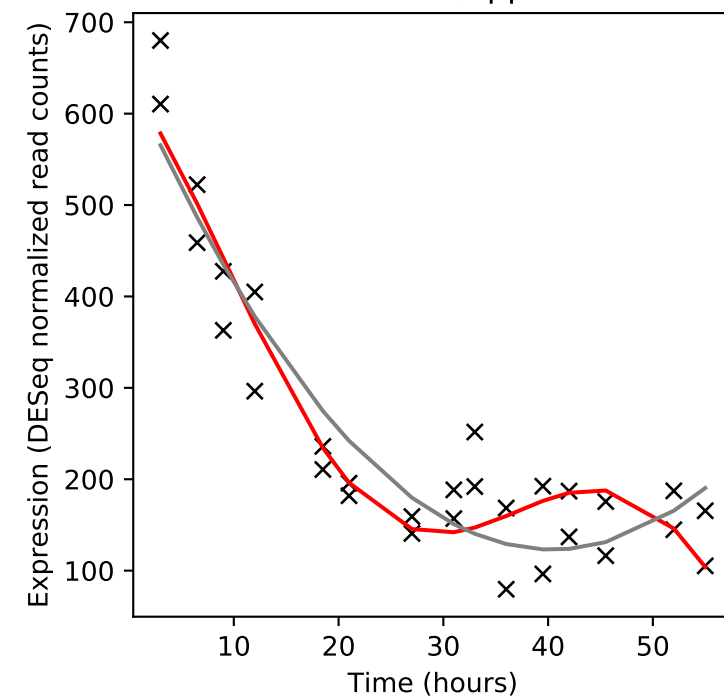
Rv1278/-



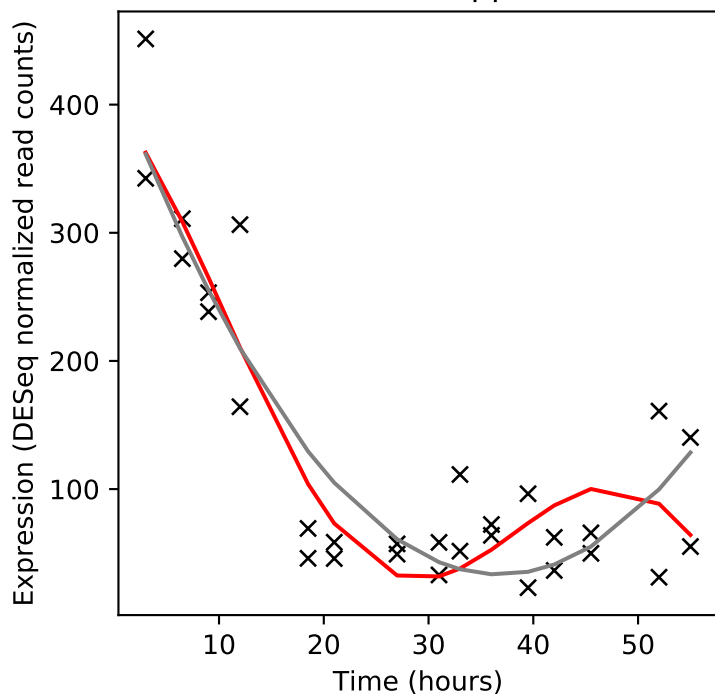
Rv1279/-



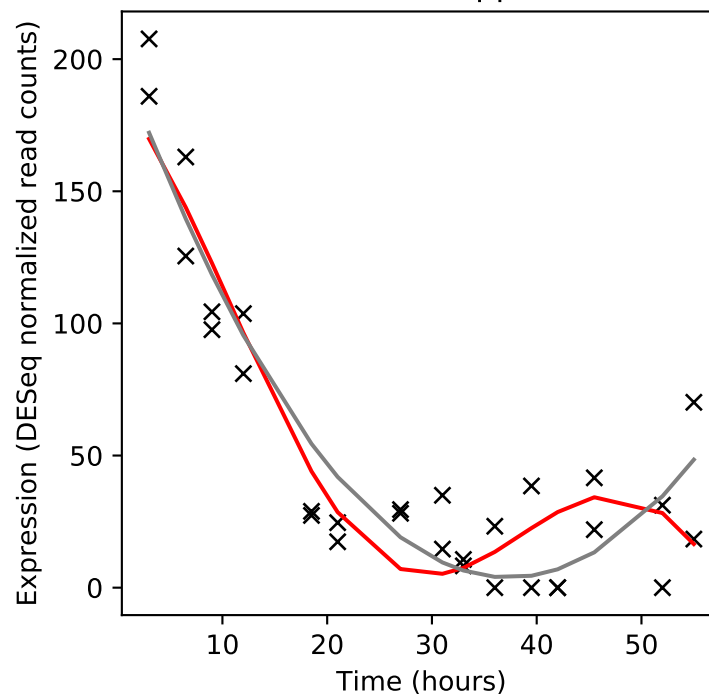
Rv1280c/oppA



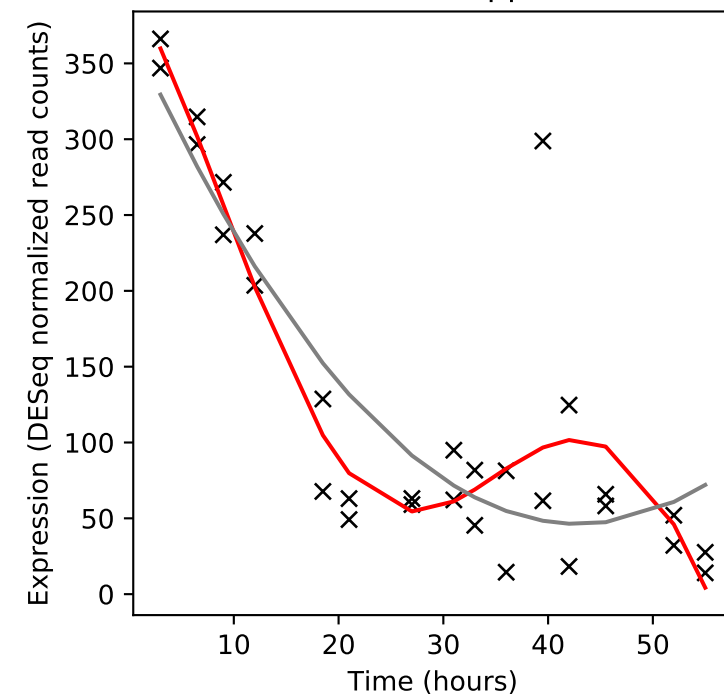
Rv1281c/oppD



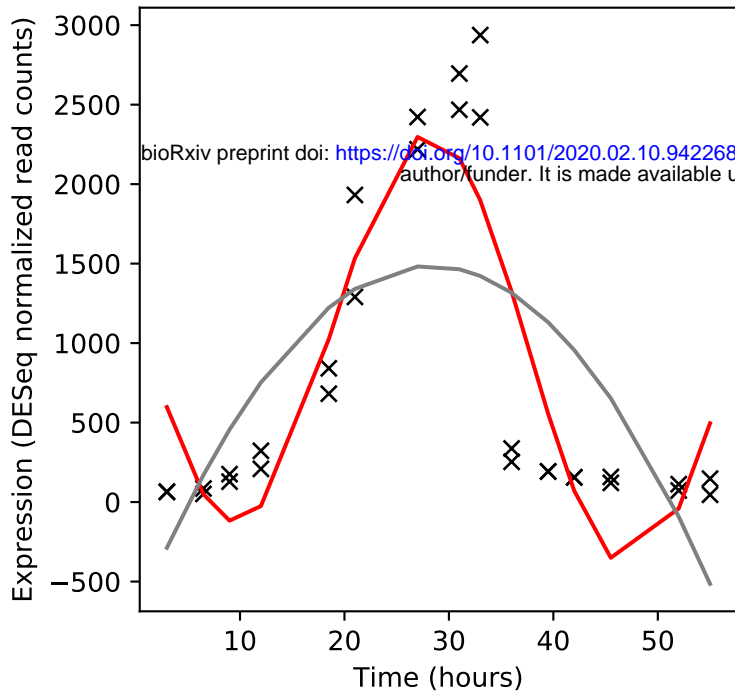
Rv1282c/oppC



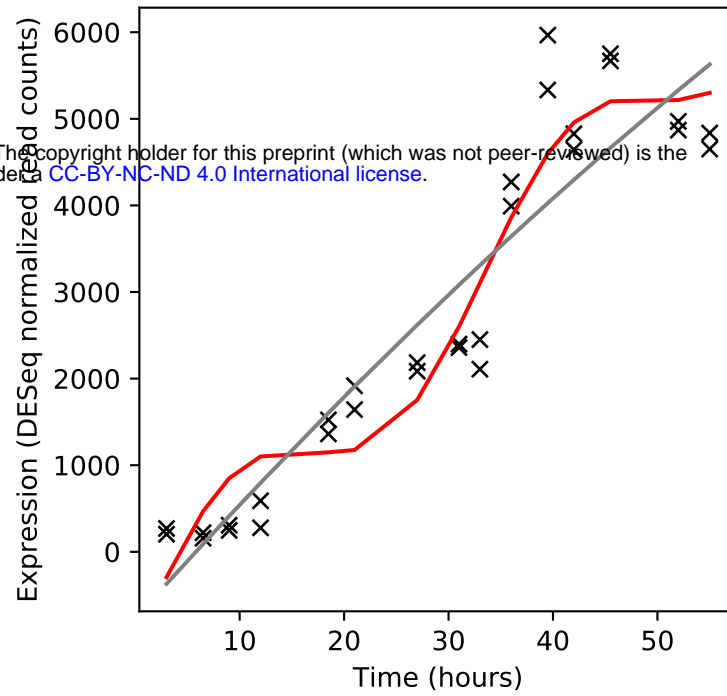
Rv1283c/oppB



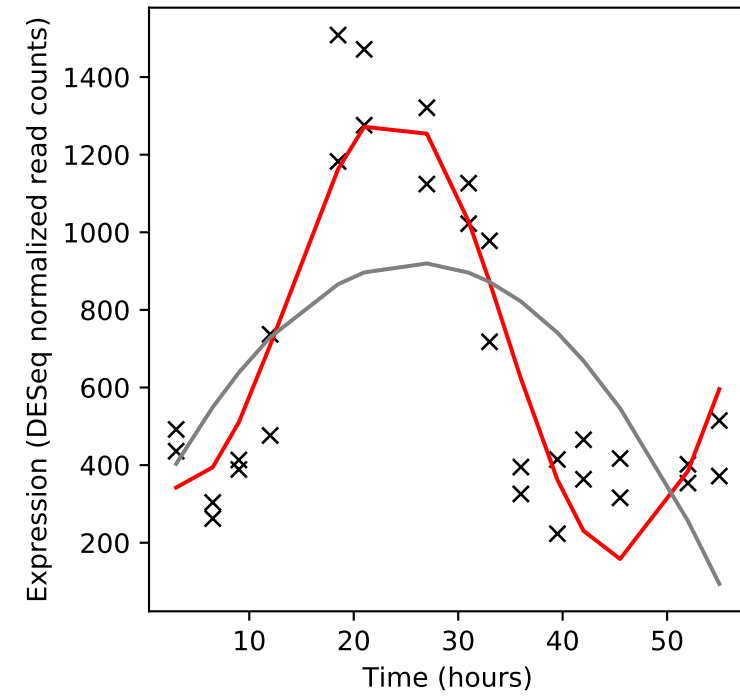
Rv1284/canA



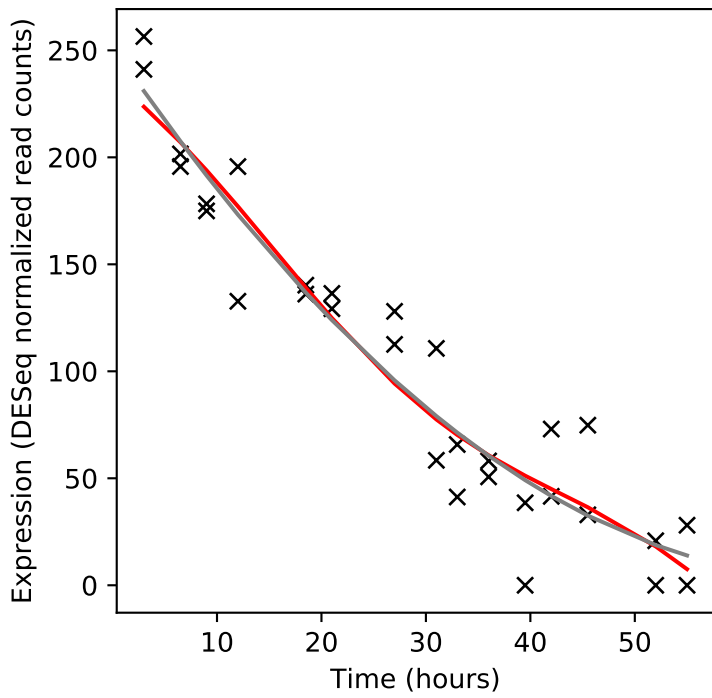
Rv1285/cysD



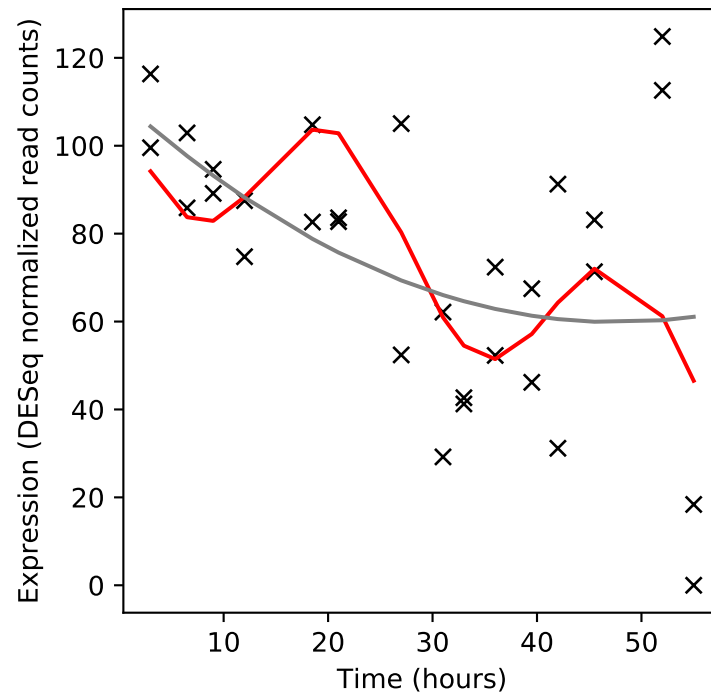
Rv1286/cysN



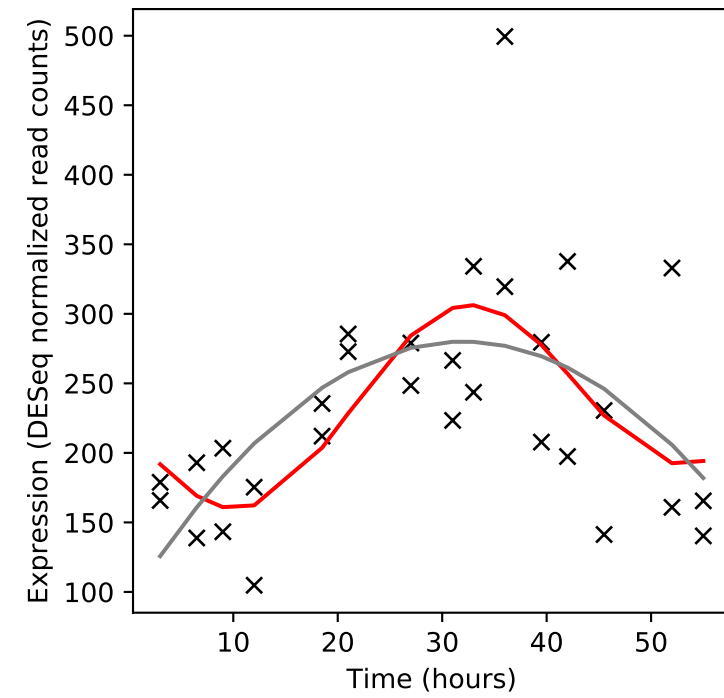
Rv1287/-



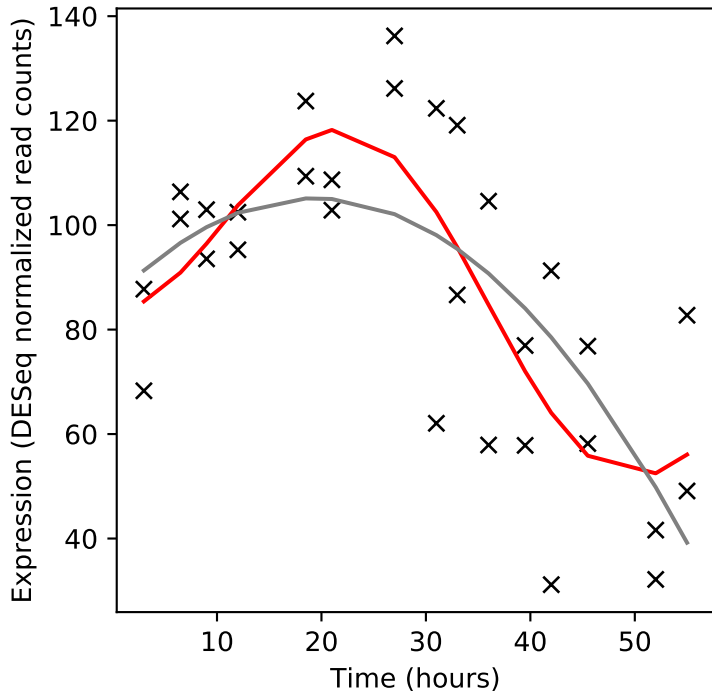
Rv1288/-



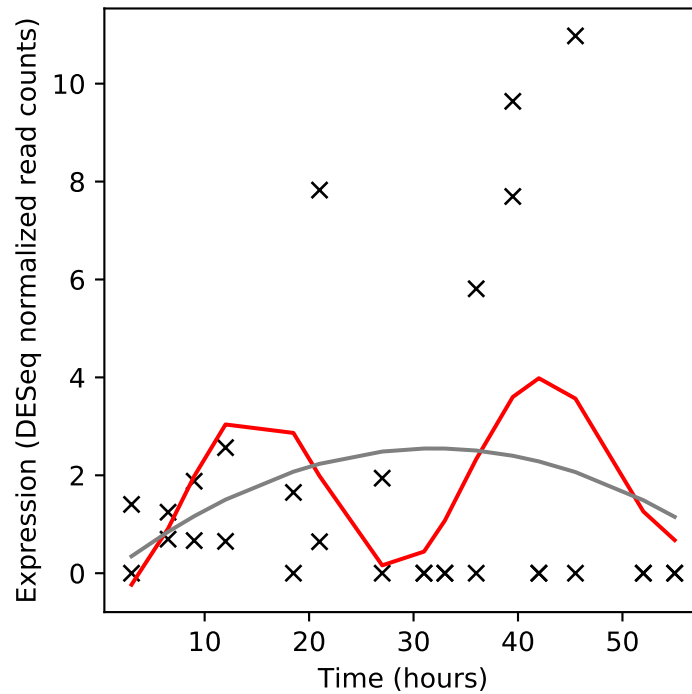
Rv1289/-



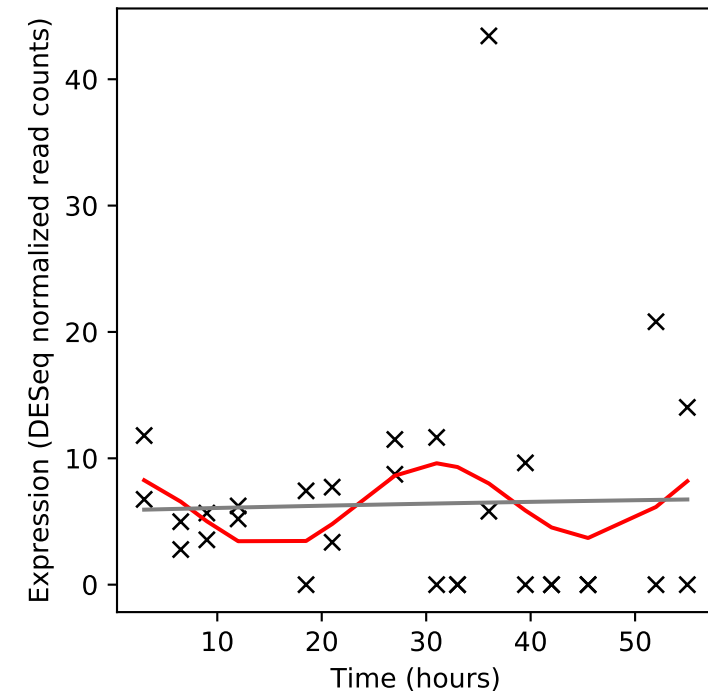
Rv1290c/-



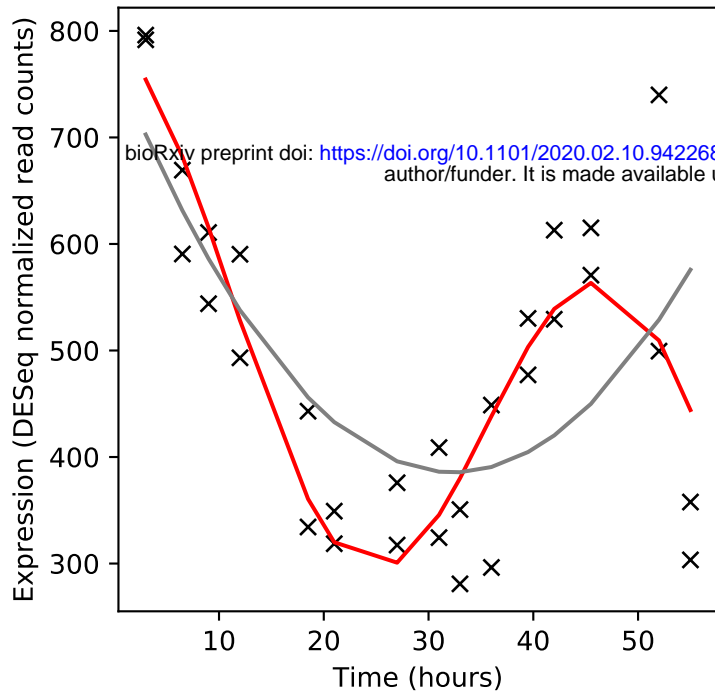
Rv1290A/-



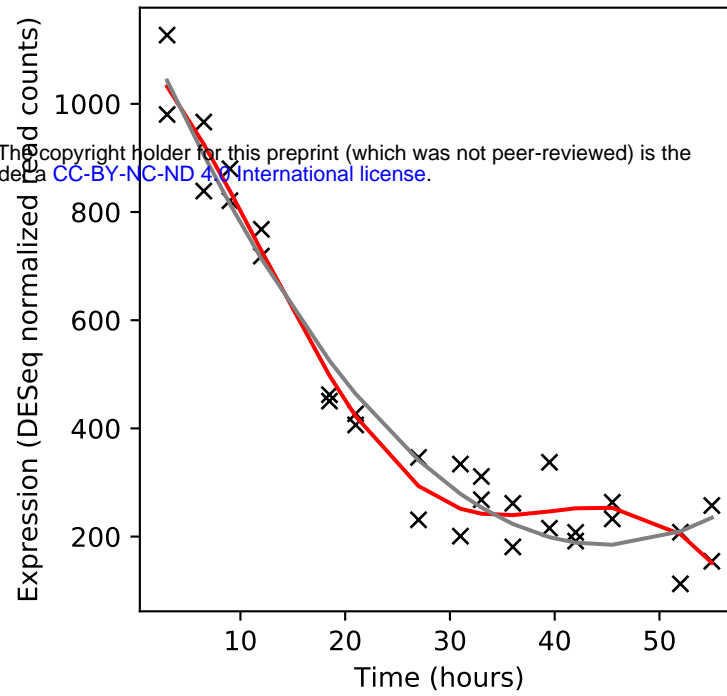
Rv1291c/-



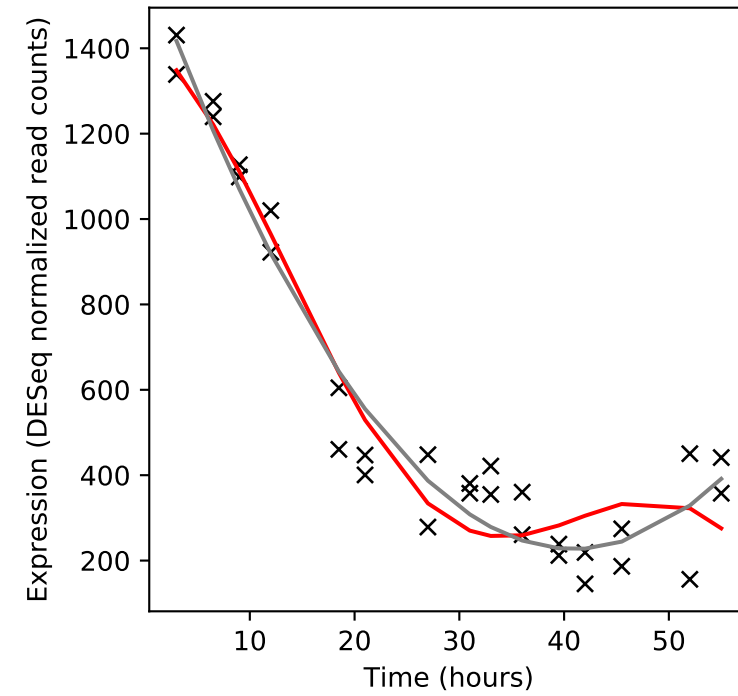
Rv1292/argS



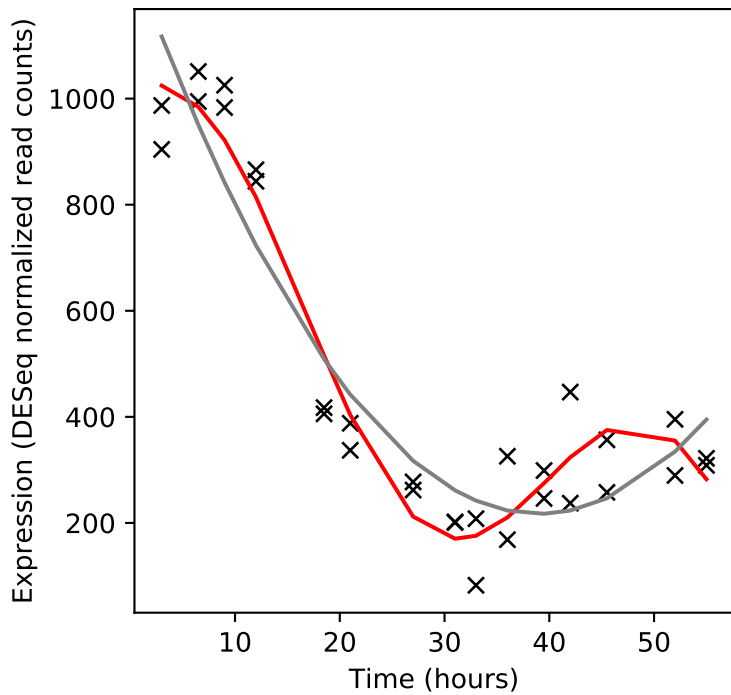
Rv1293/lysA



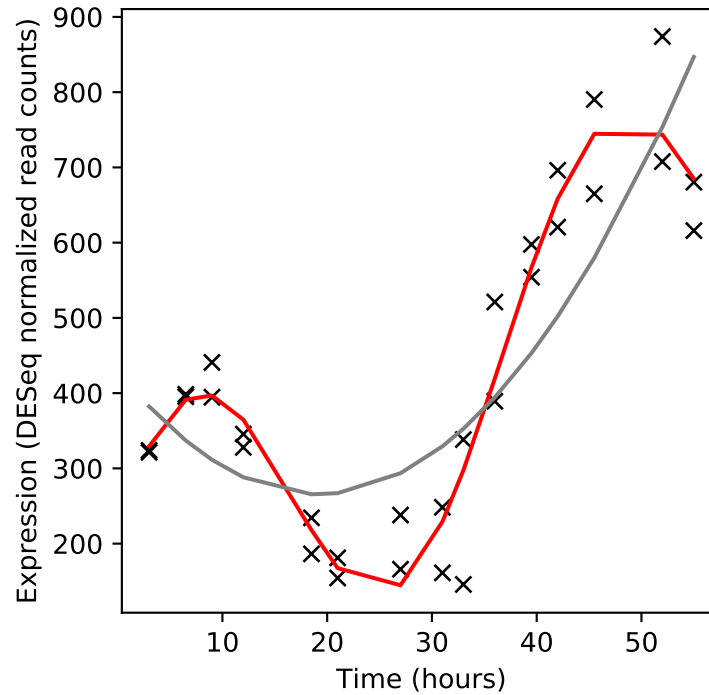
Rv1294/thrA



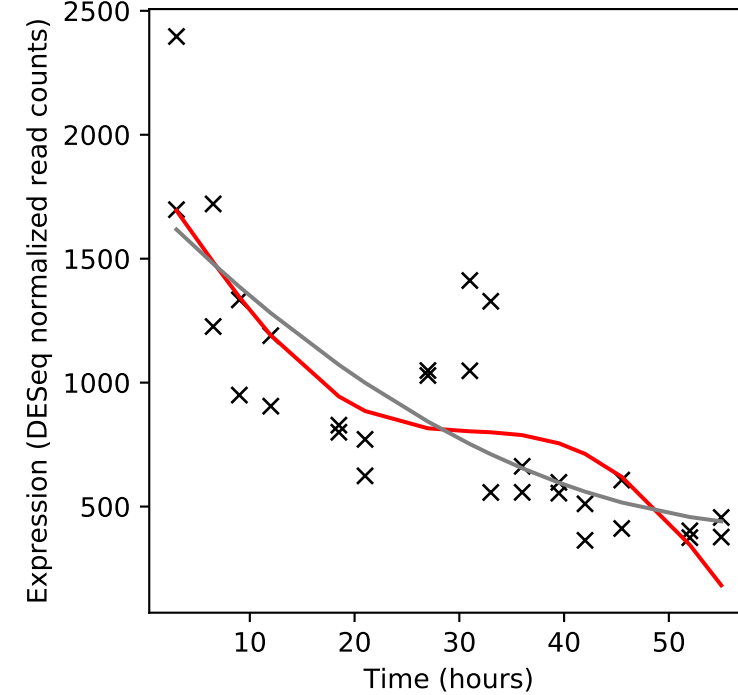
Rv1295/thrC



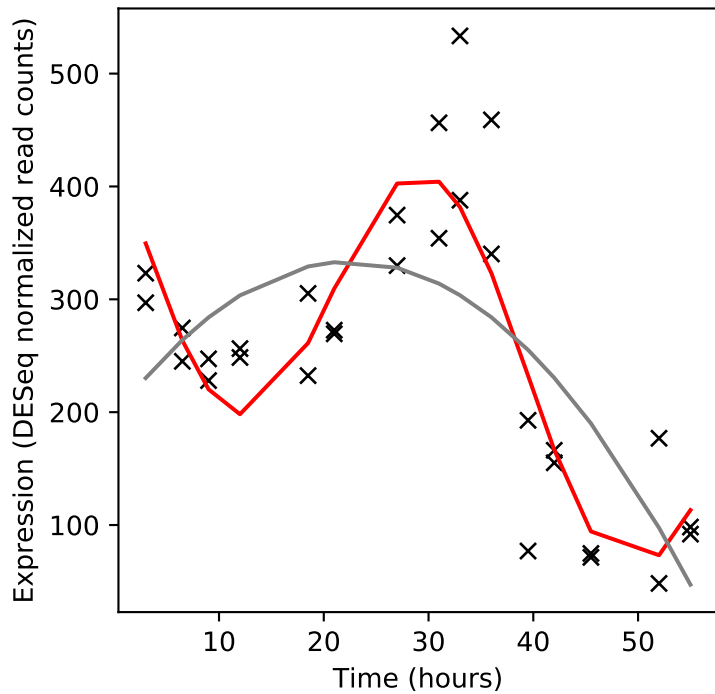
Rv1296/thrB



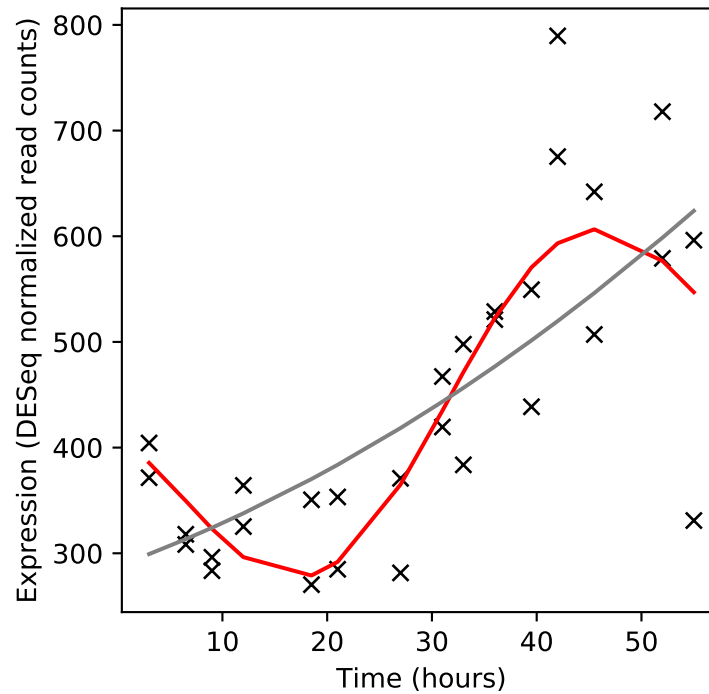
Rv1297/rho



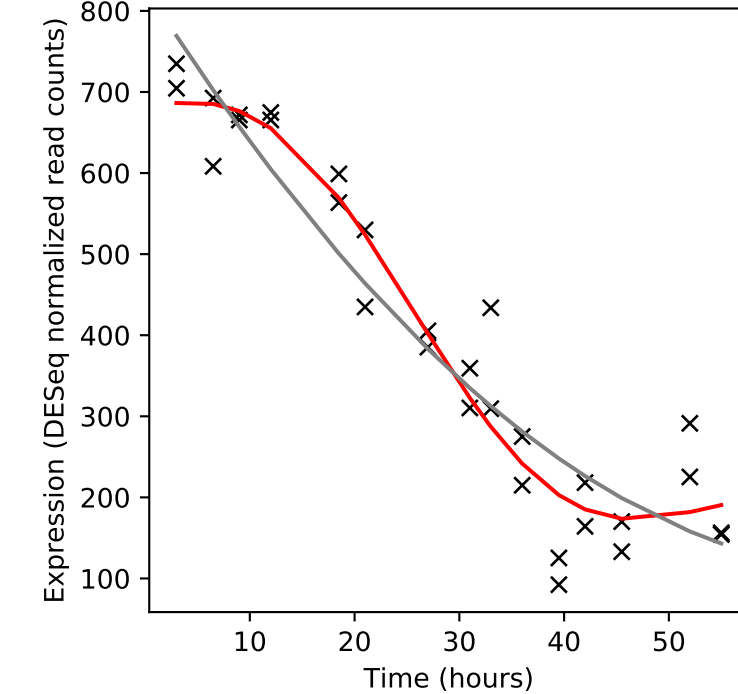
Rv1298/rpmE



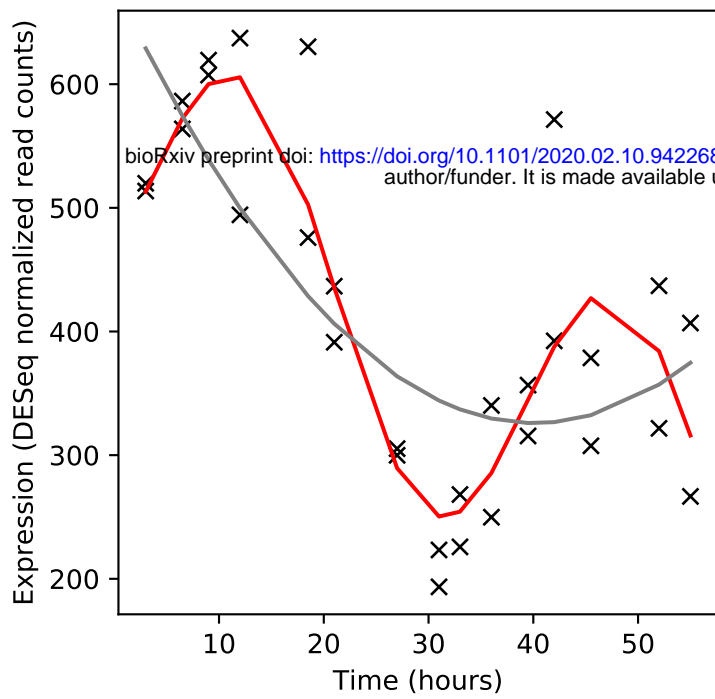
Rv1299/prfA



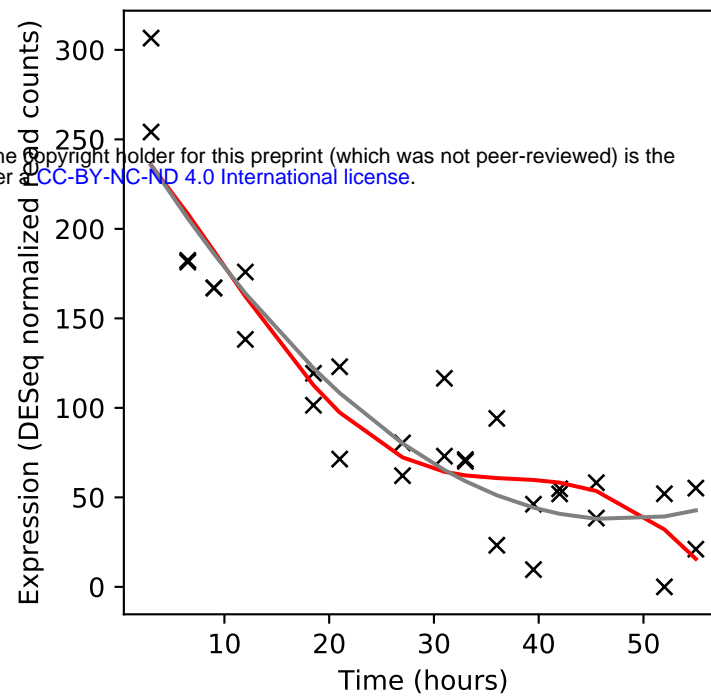
Rv1300/hemK



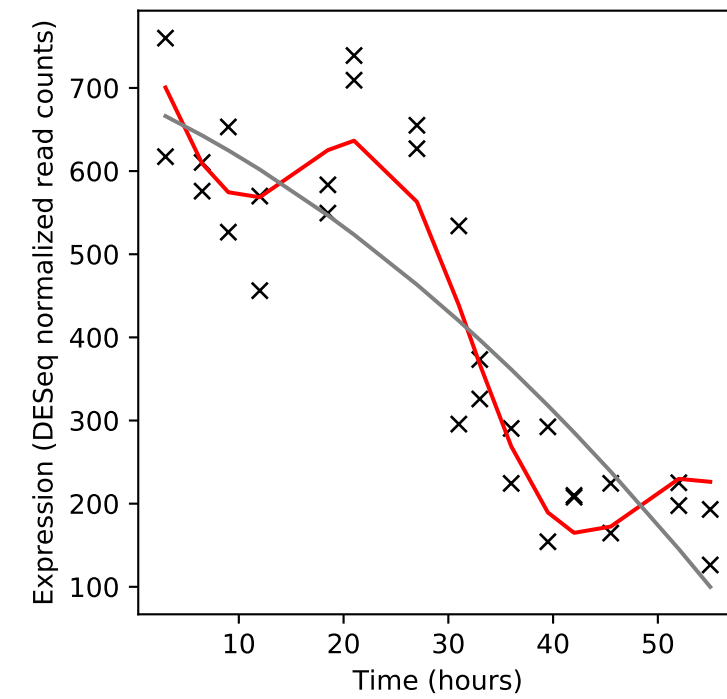
Rv1301/-



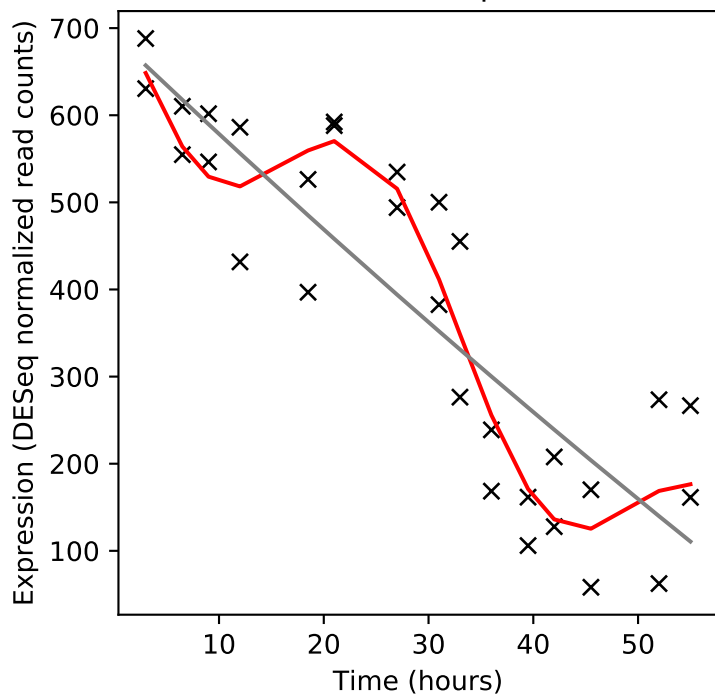
Rv1302/rfe



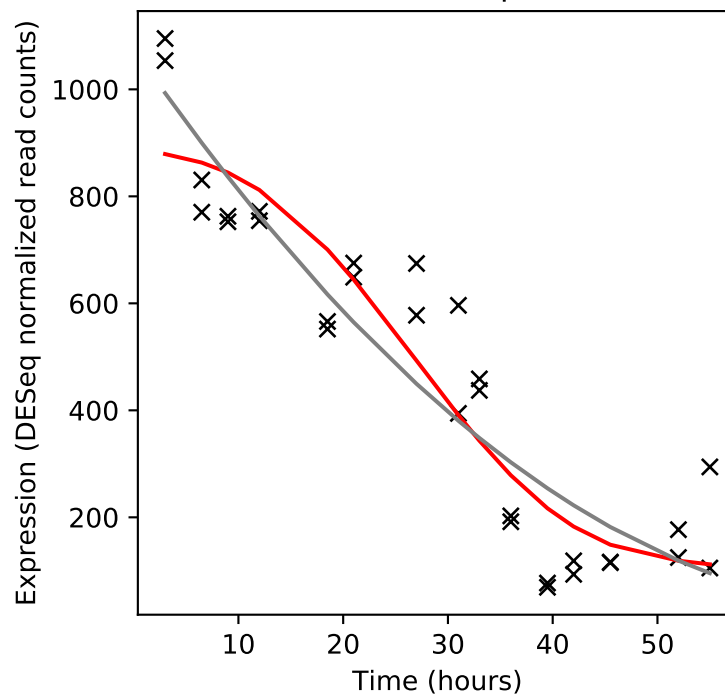
Rv1303/-



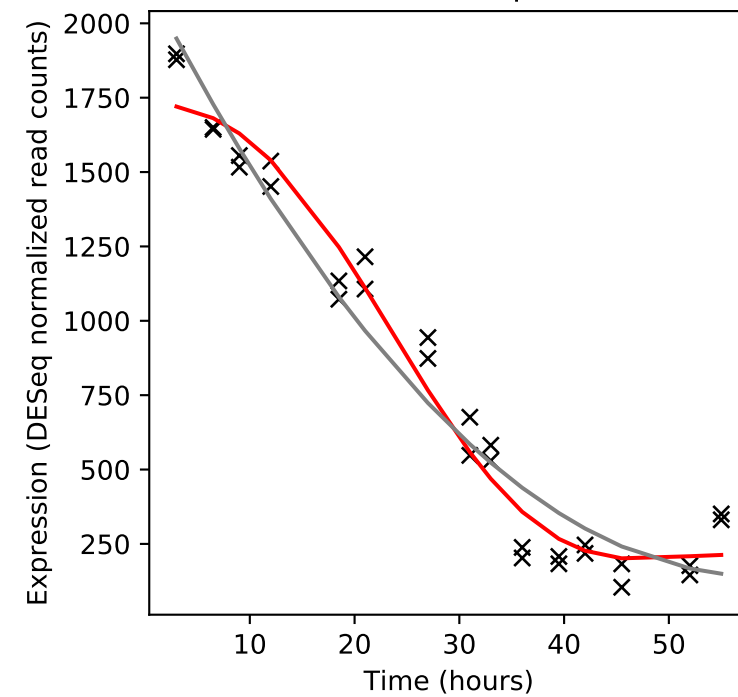
Rv1304/atpB



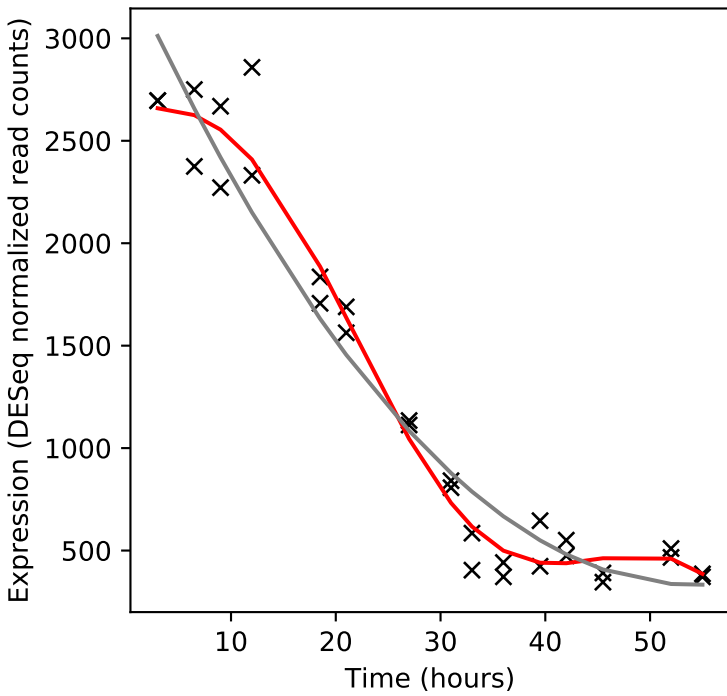
Rv1305/atpE



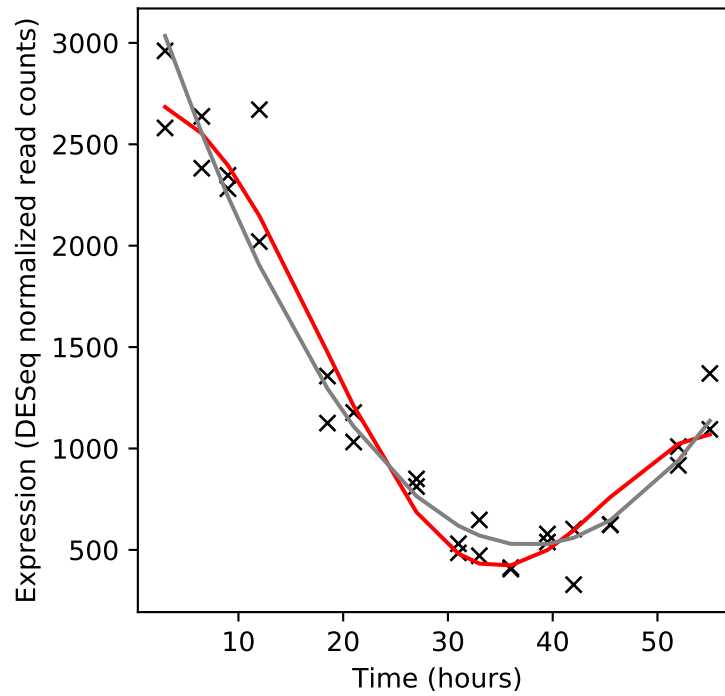
Rv1306/atpF



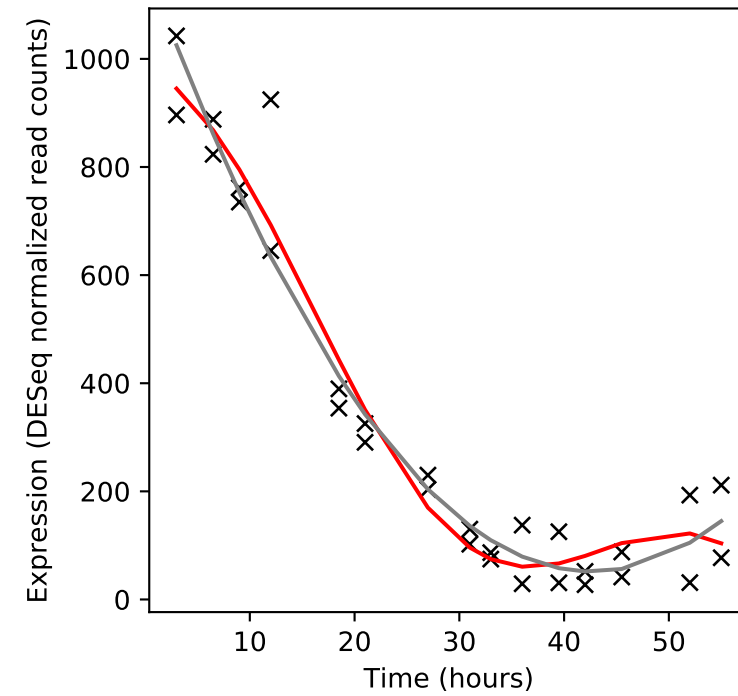
Rv1307/atpH



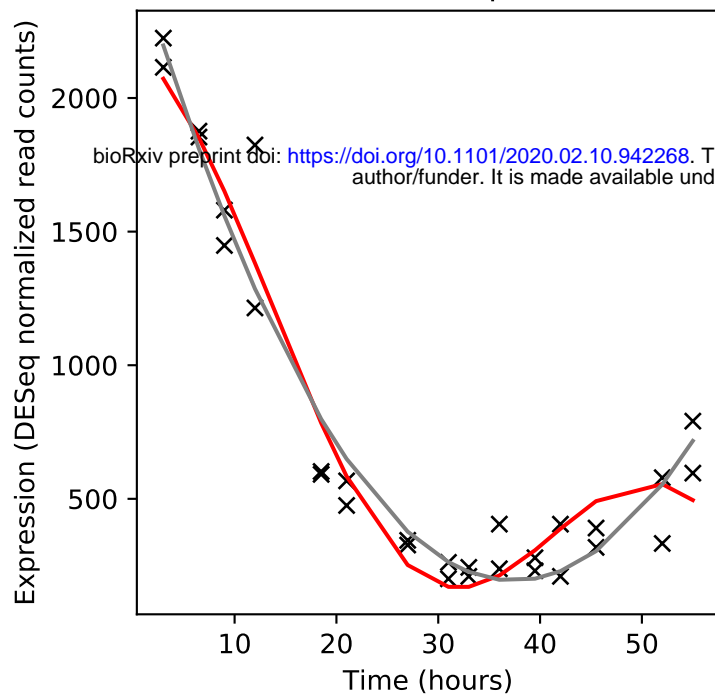
Rv1308/atpA



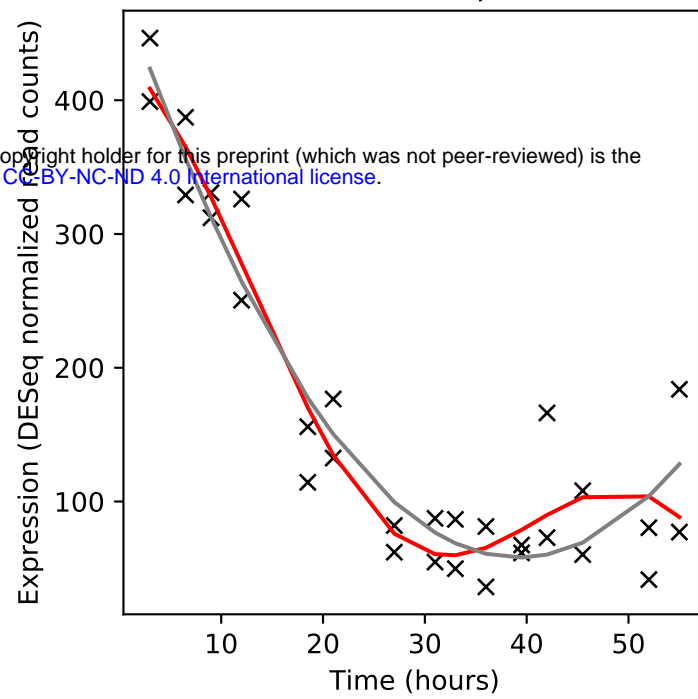
Rv1309/atpG



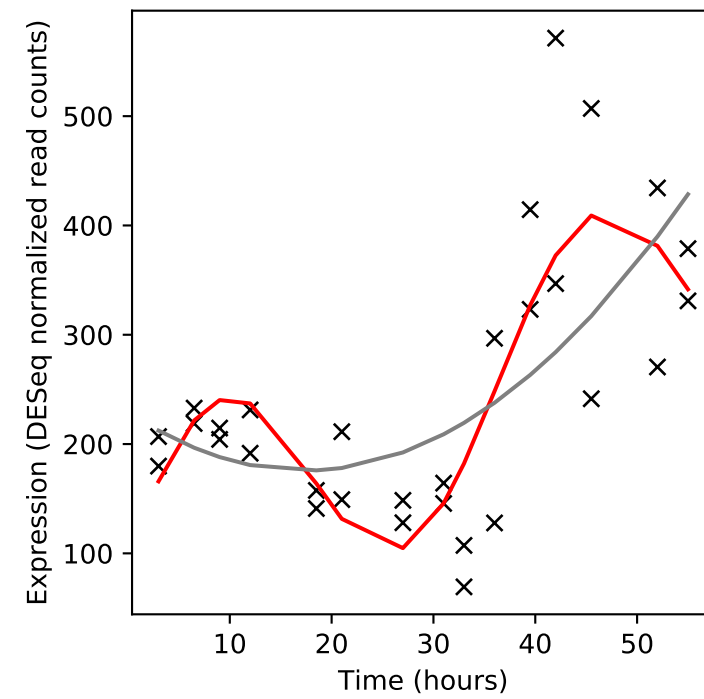
Rv1310/atpD



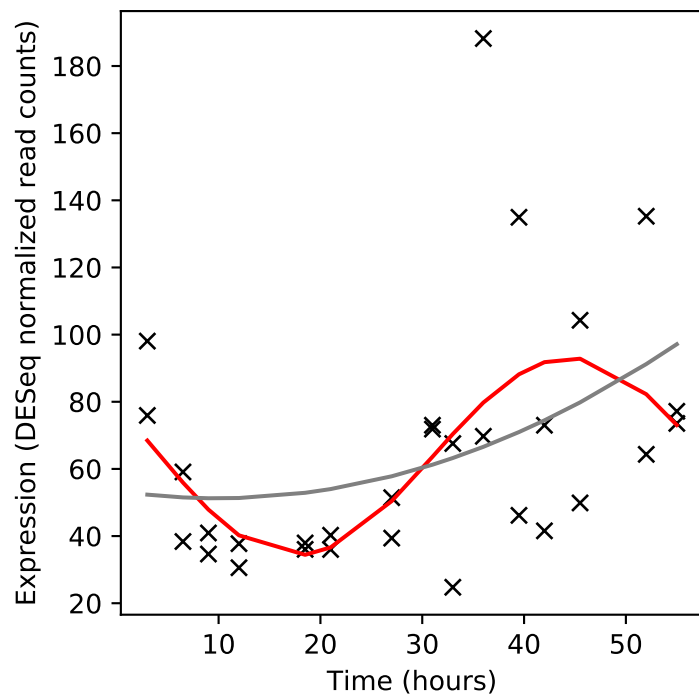
Rv1311/atpC



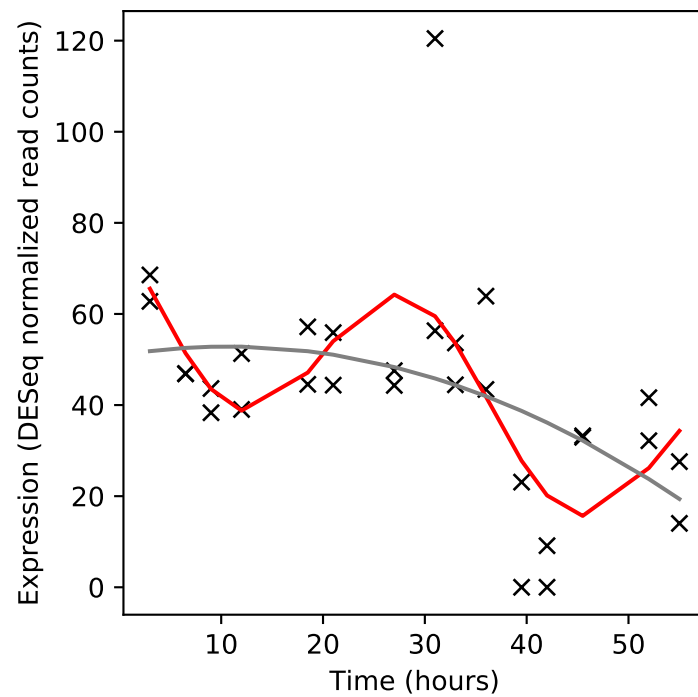
Rv1312/-



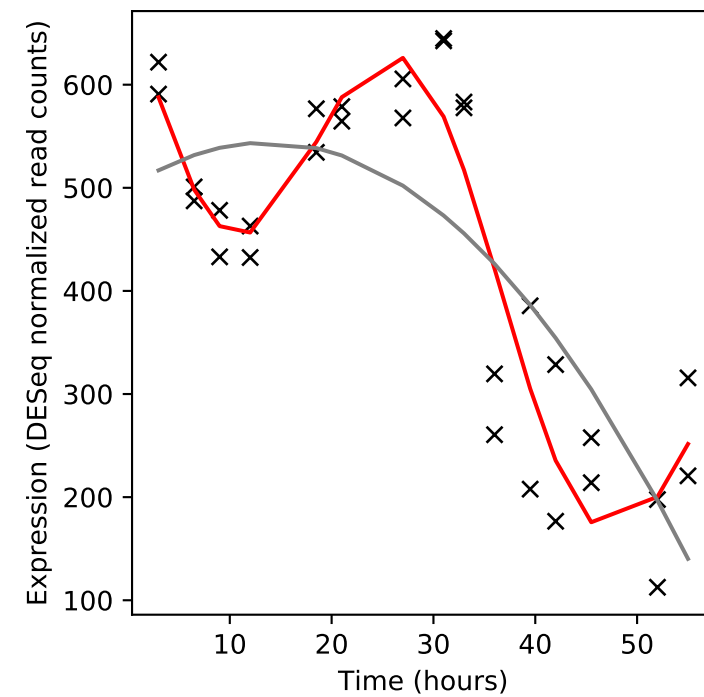
Rv1313c/-



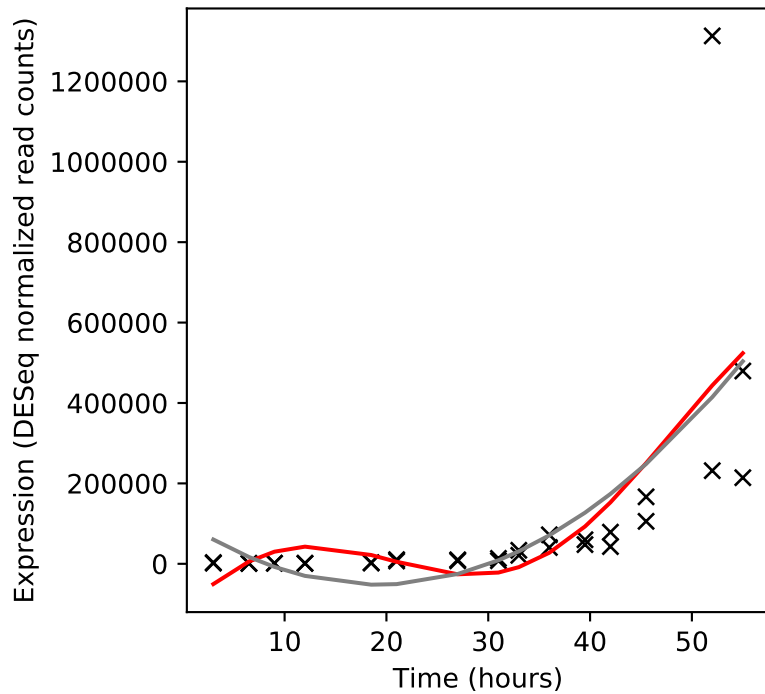
Rv1314c/-



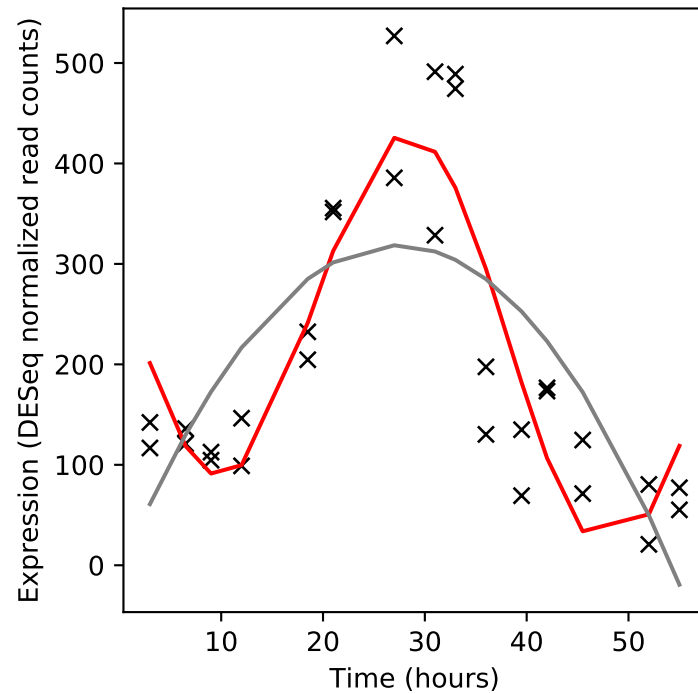
Rv1315/murA



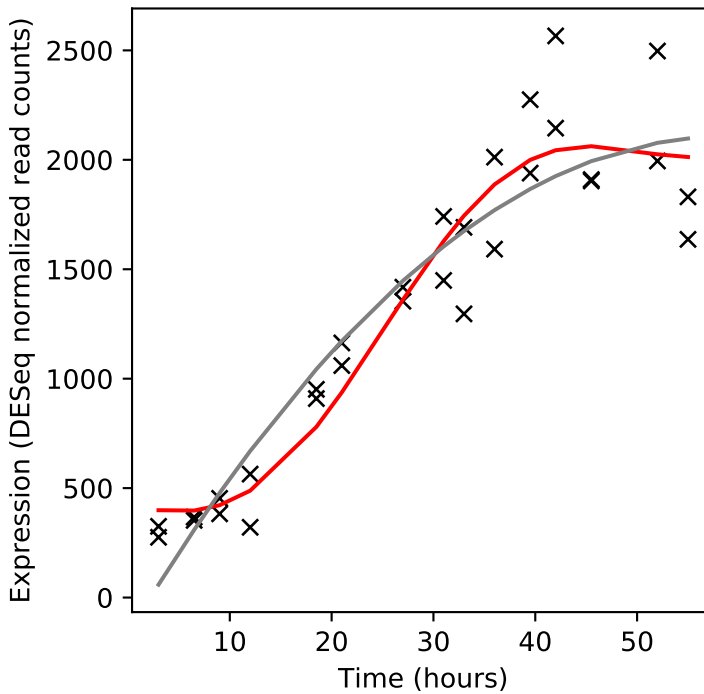
Rvnr01/rrs



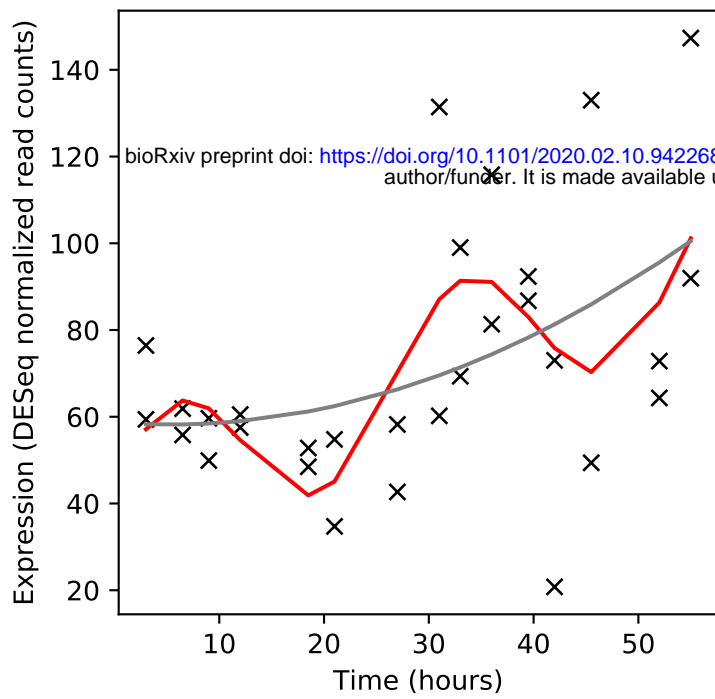
Rv1316c/ogt



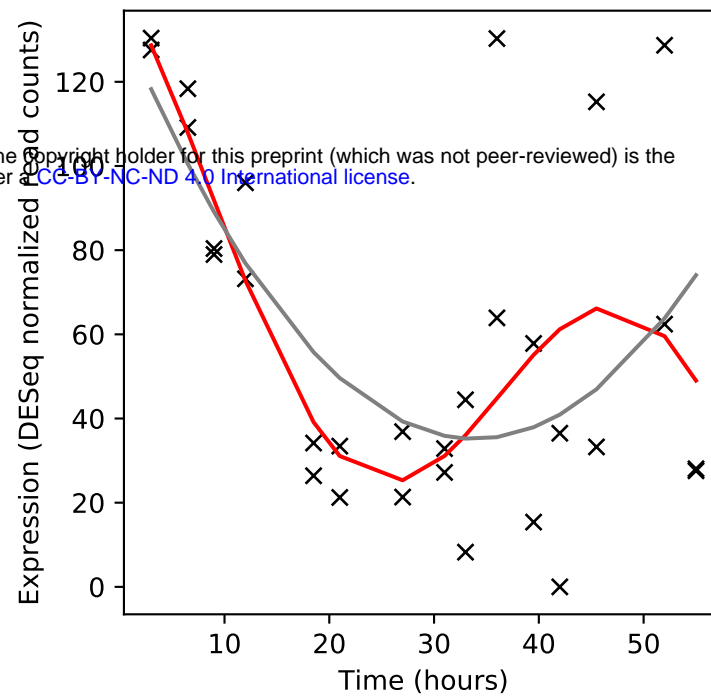
Rv1317c/alkA



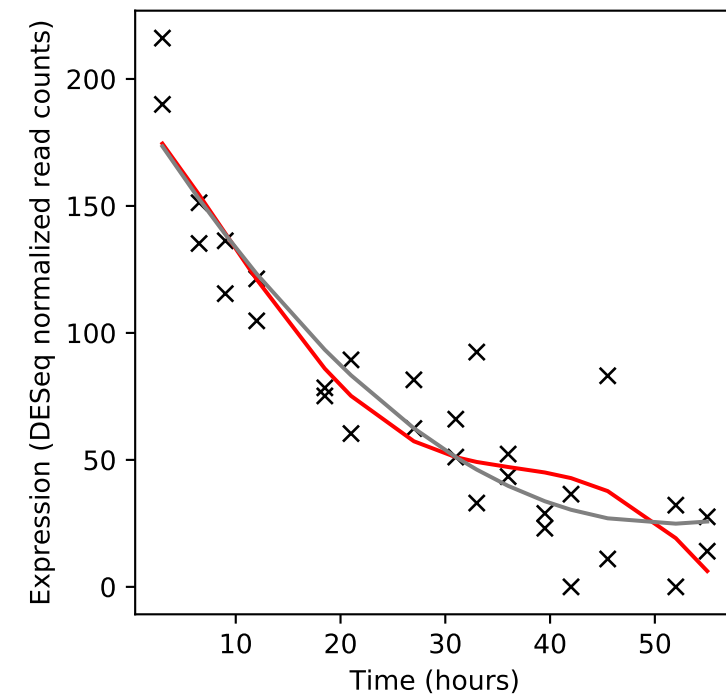
Rv1318c/-



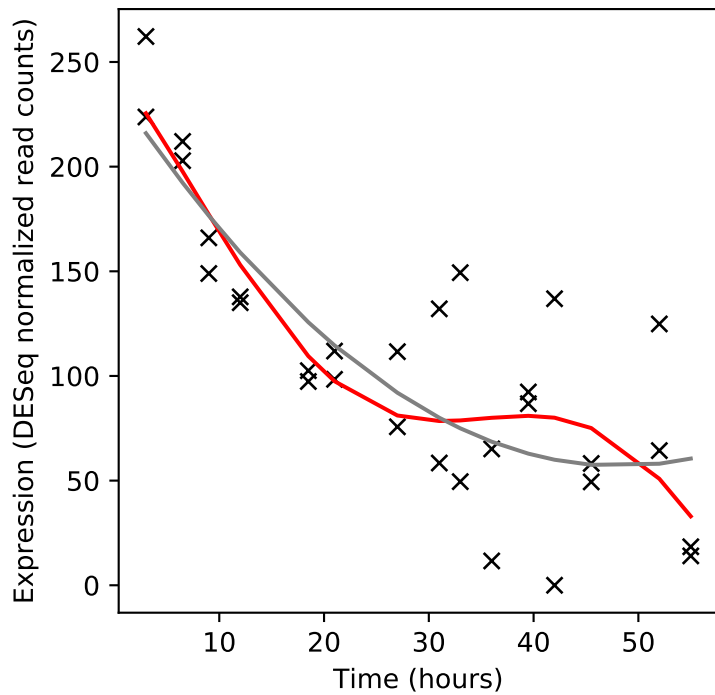
Rv1319c/-



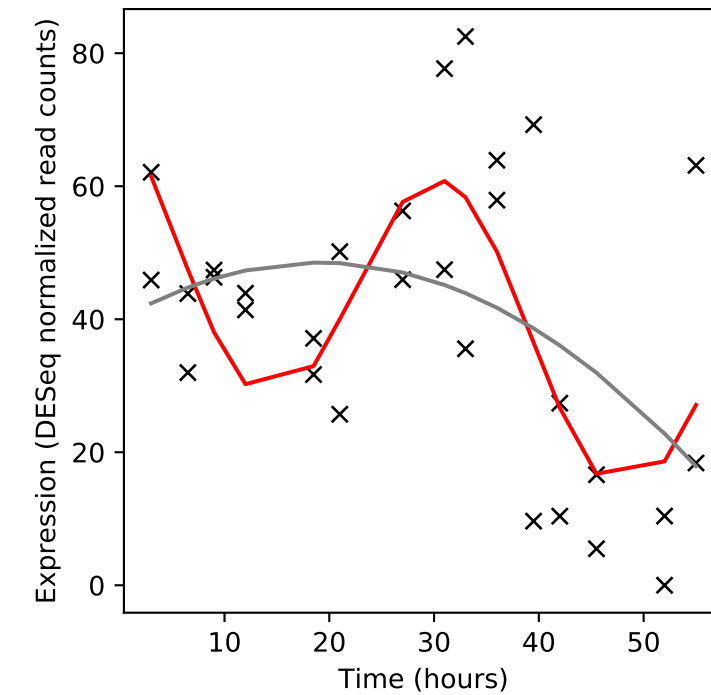
Rv1320c/-



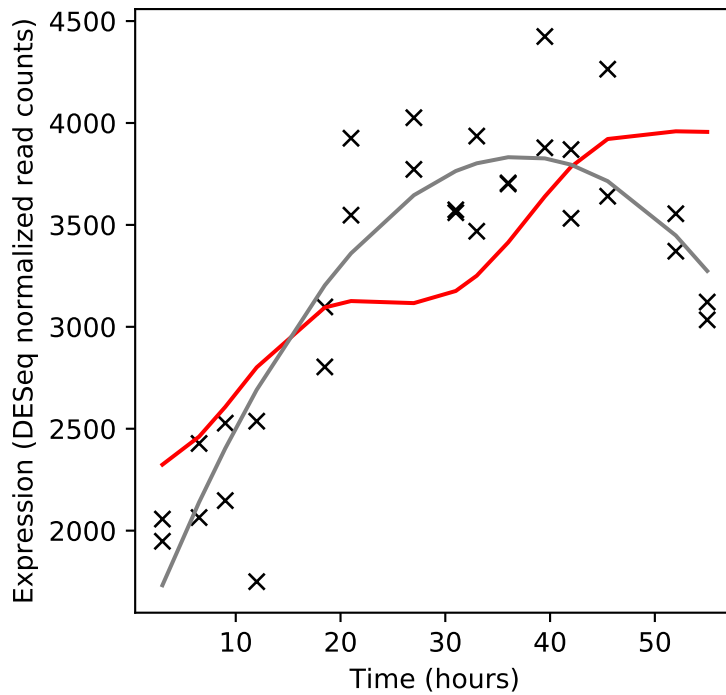
Rv1321/-



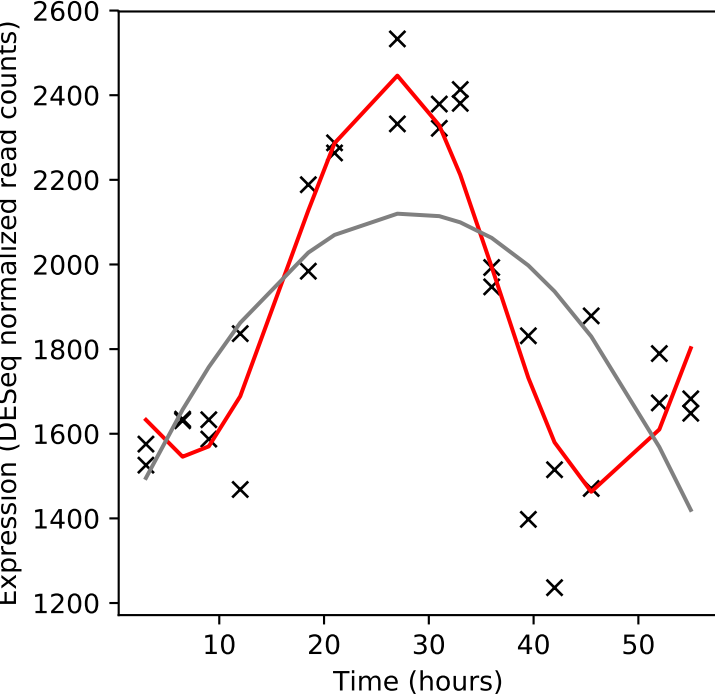
Rv1322/-



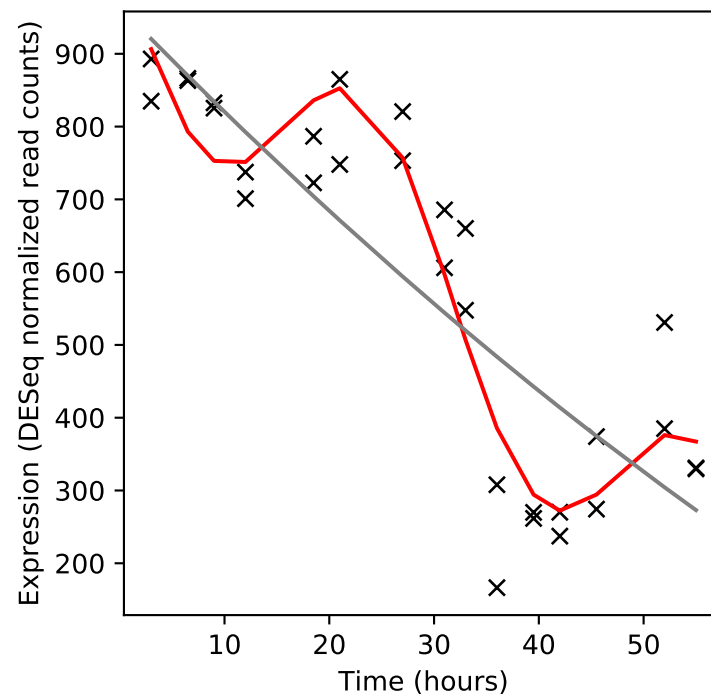
Rv1322A/-



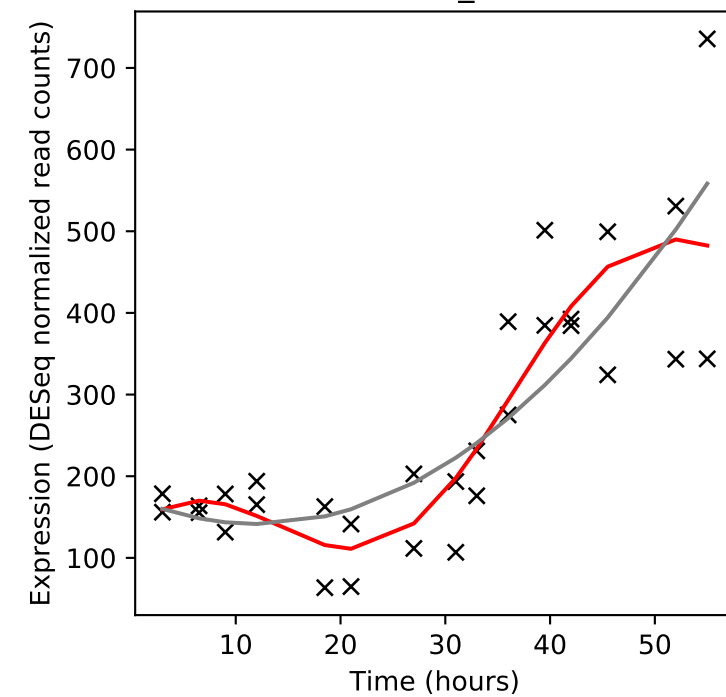
Rv1323/fadA4



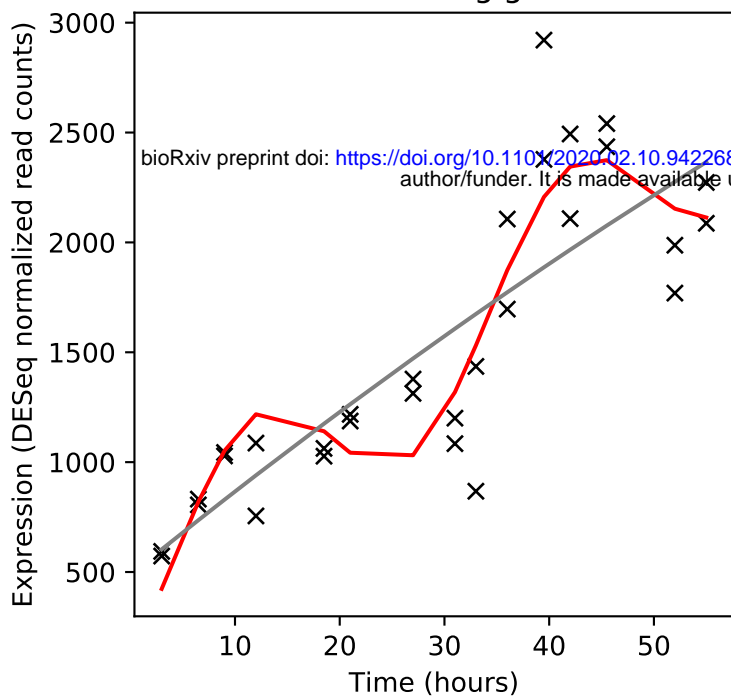
Rv1324/-



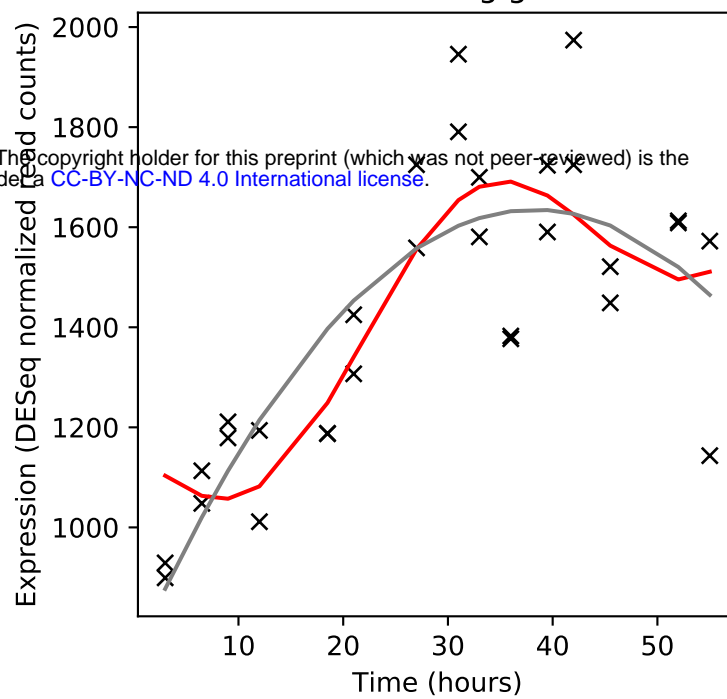
Rv1325c/PE_PGRS24



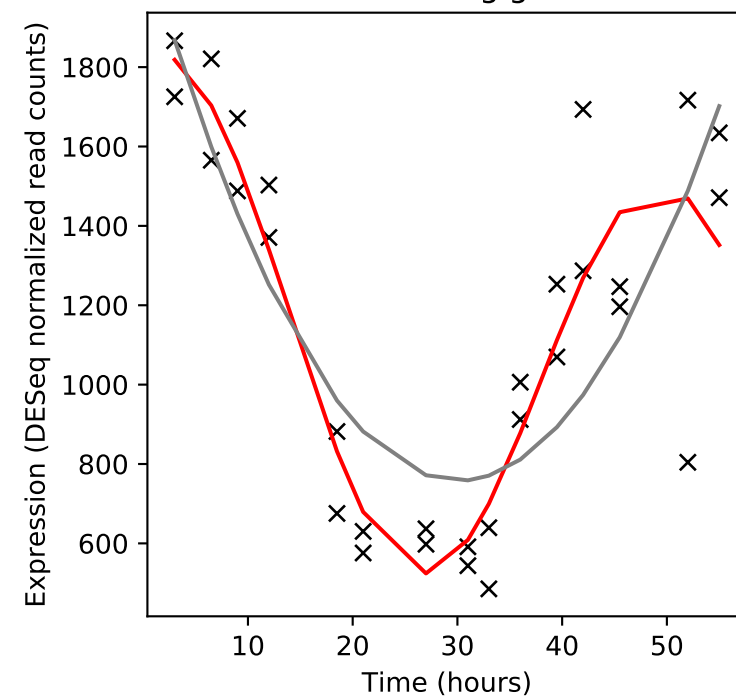
Rv1326c/glgB



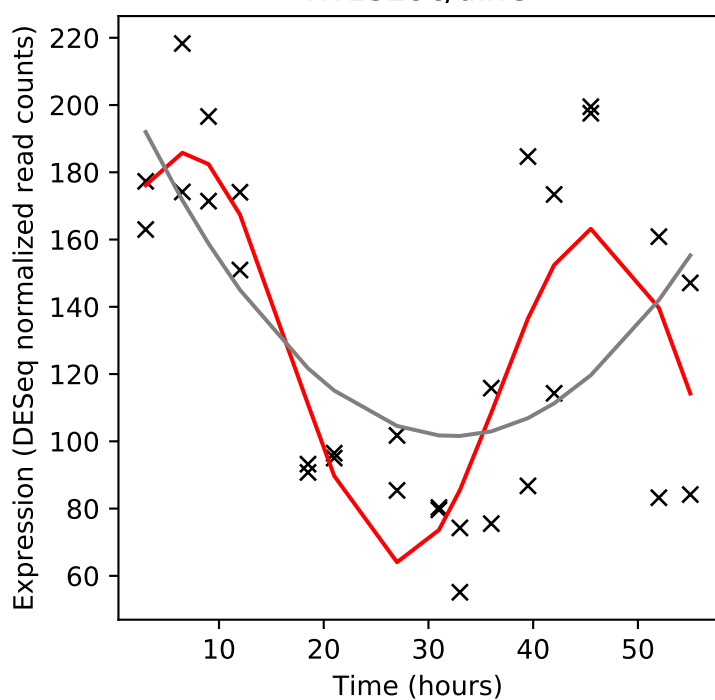
Rv1327c/glgE



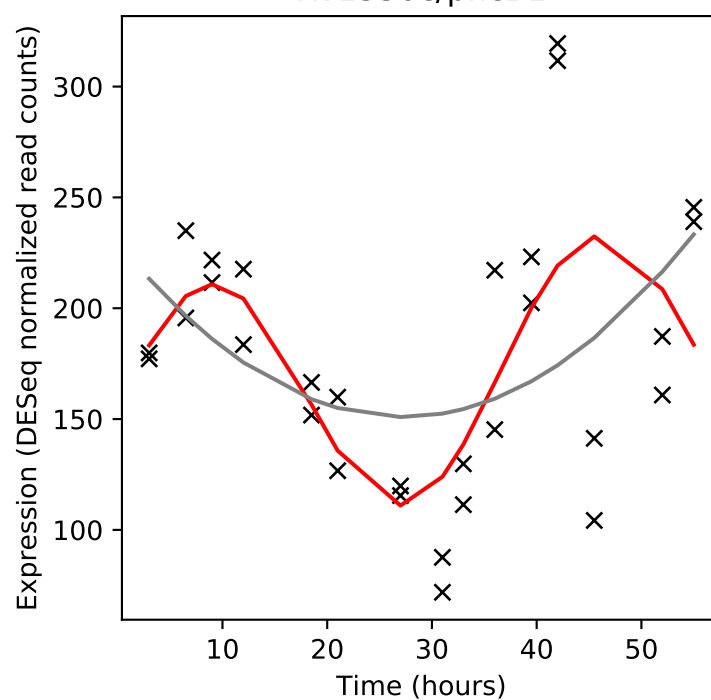
Rv1328c/glgP



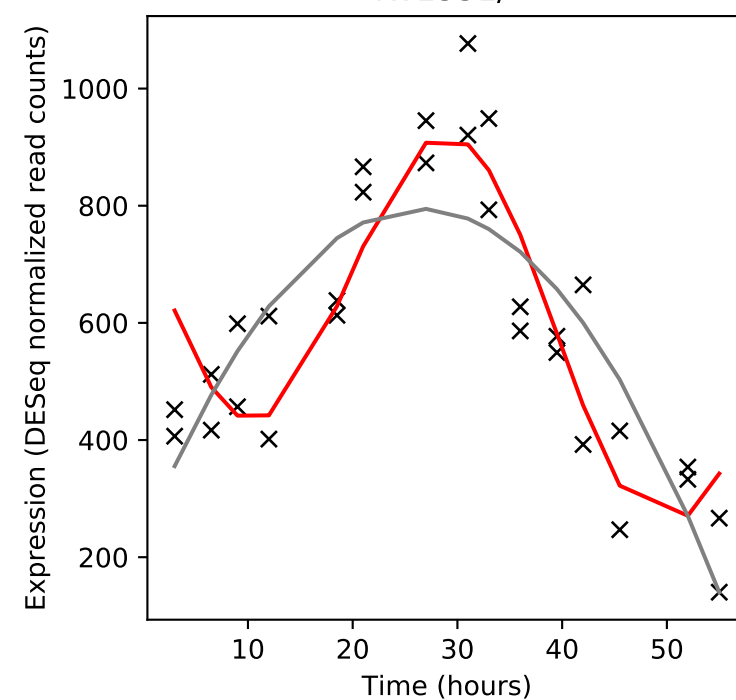
Rv1329c/dinG



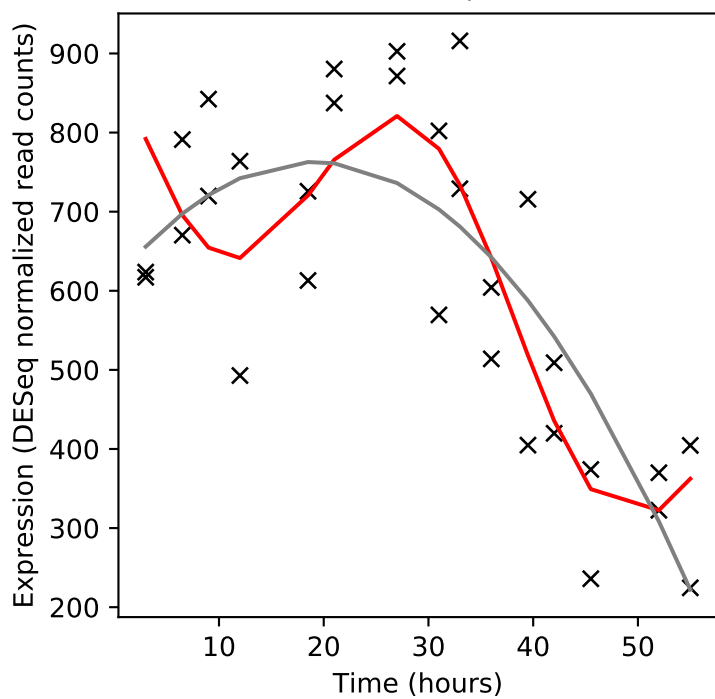
Rv1330c/pncB1



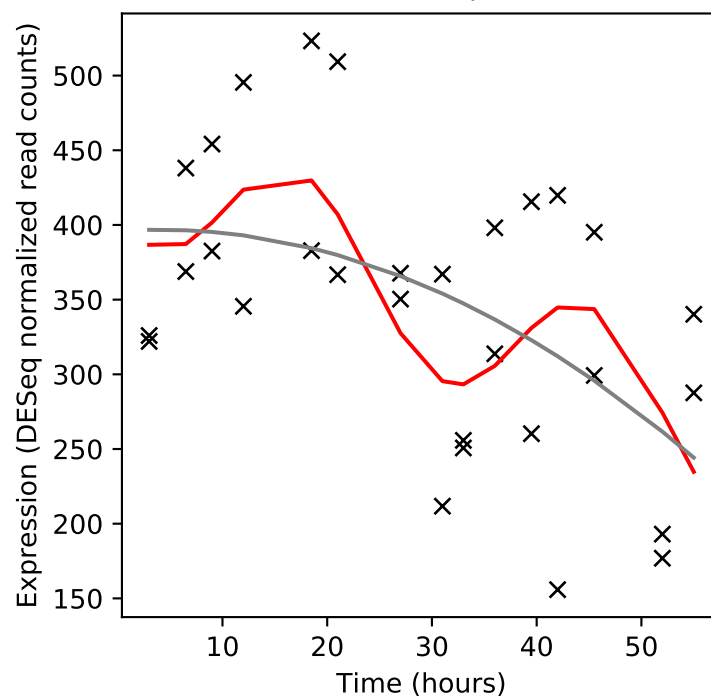
Rv1331/-



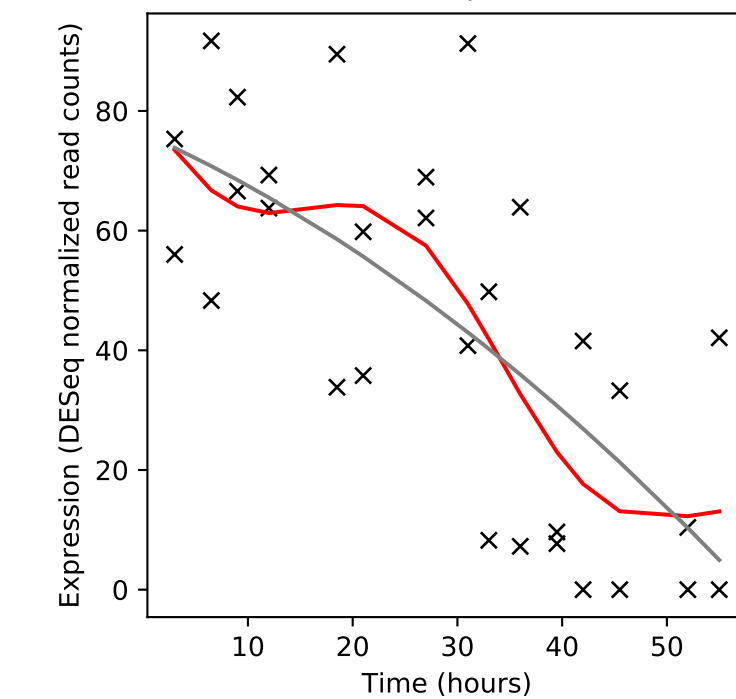
Rv1332/-



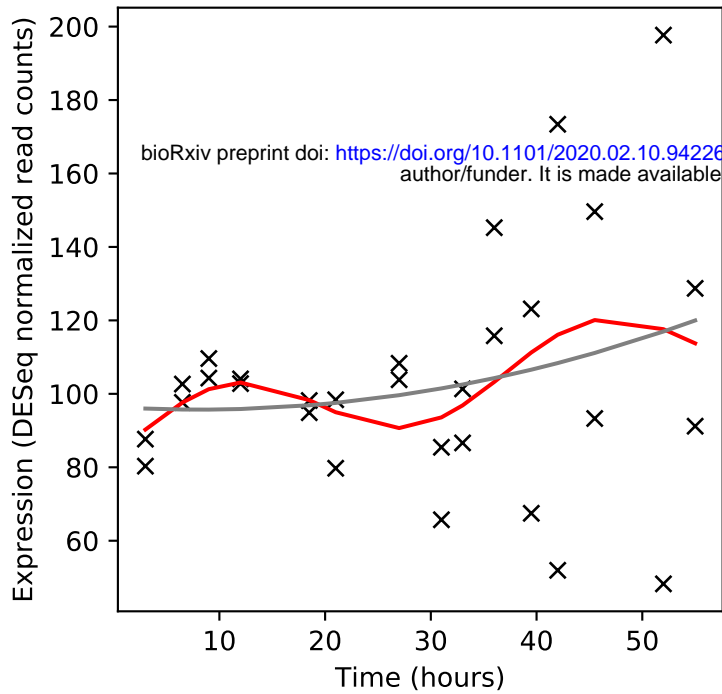
Rv1333/-



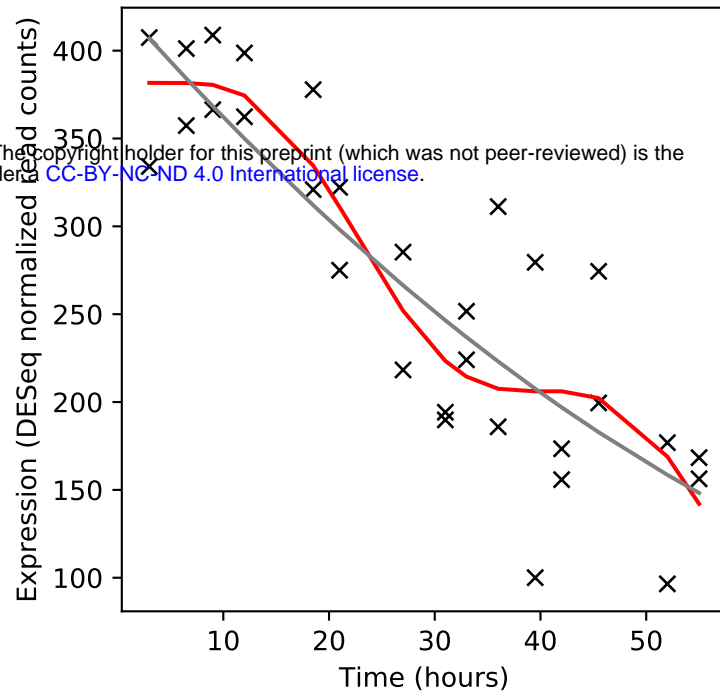
Rv1334/mec



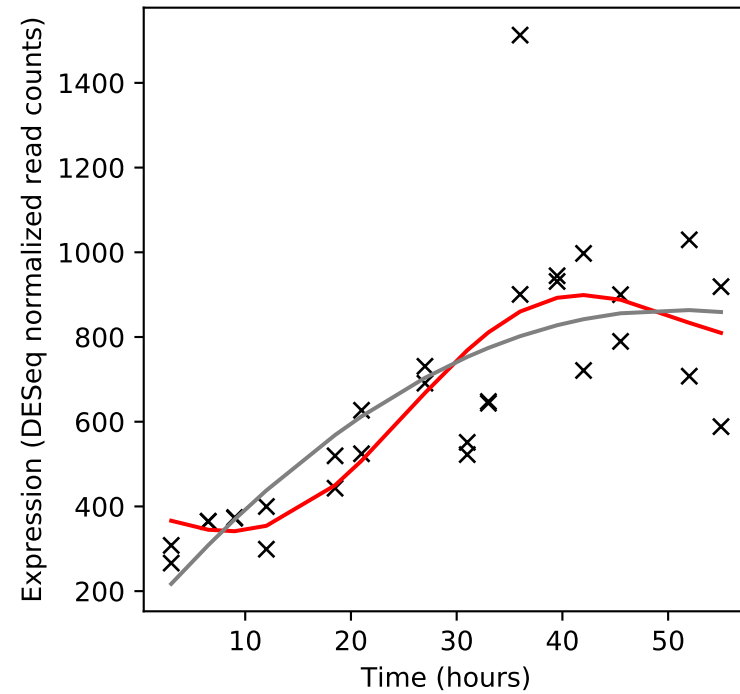
Rv1335/cysO



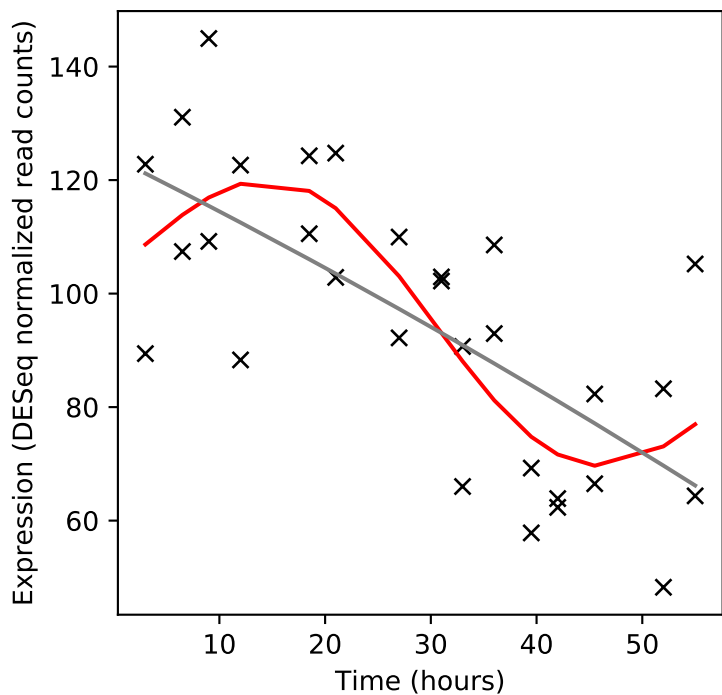
Rv1336/cysM



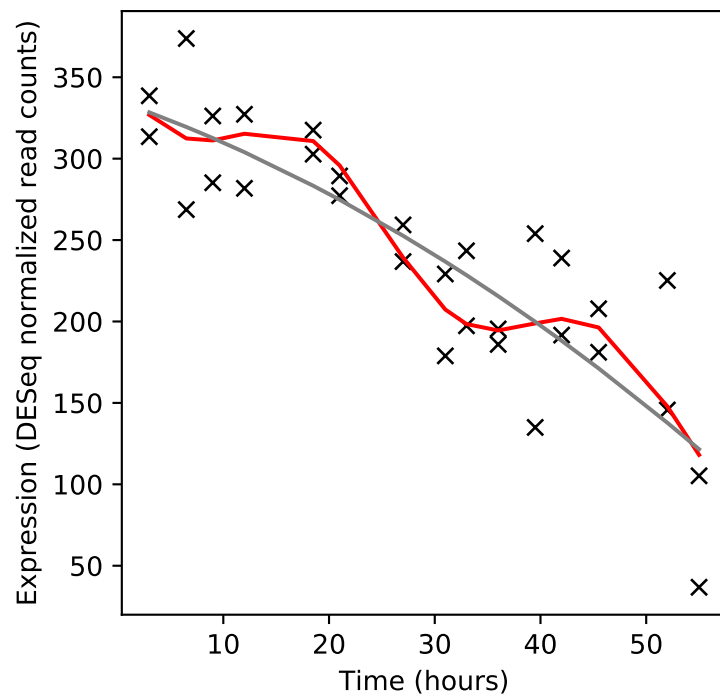
Rv1337/-



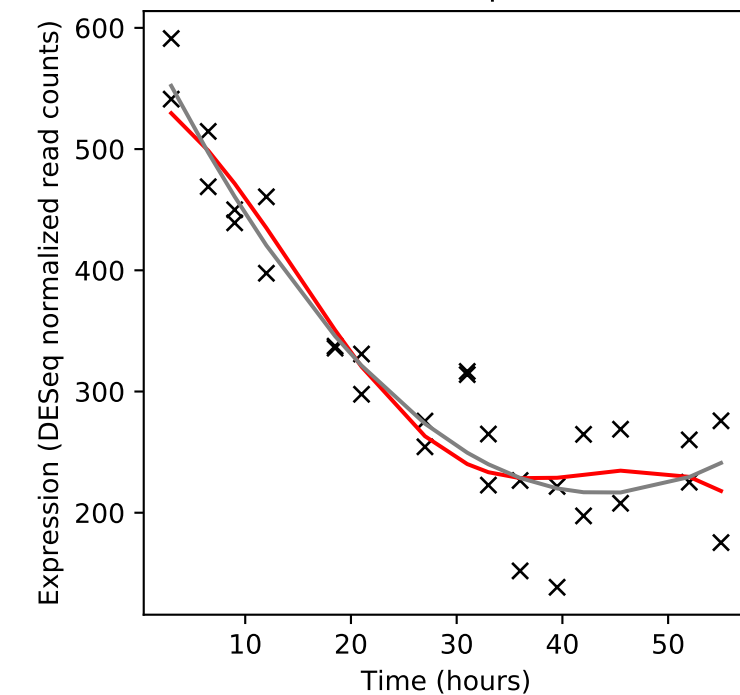
Rv1338/murl



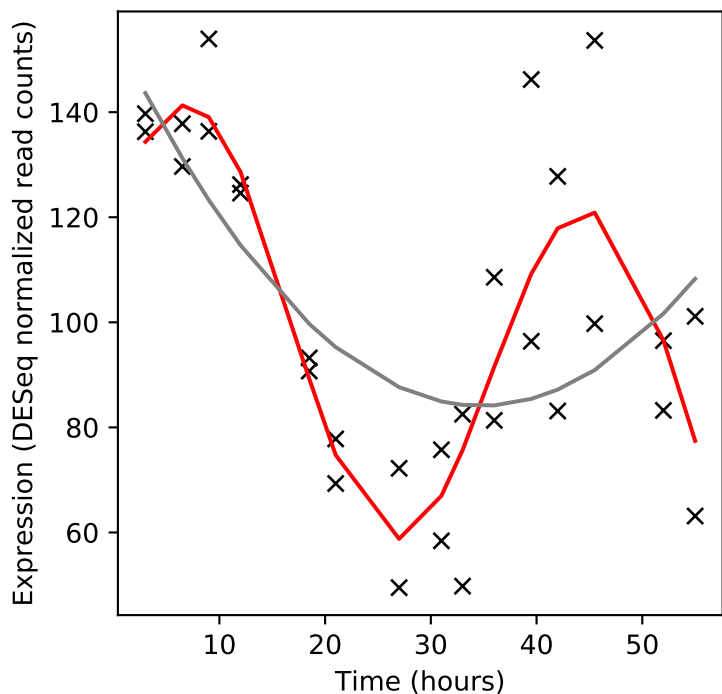
Rv1339/-



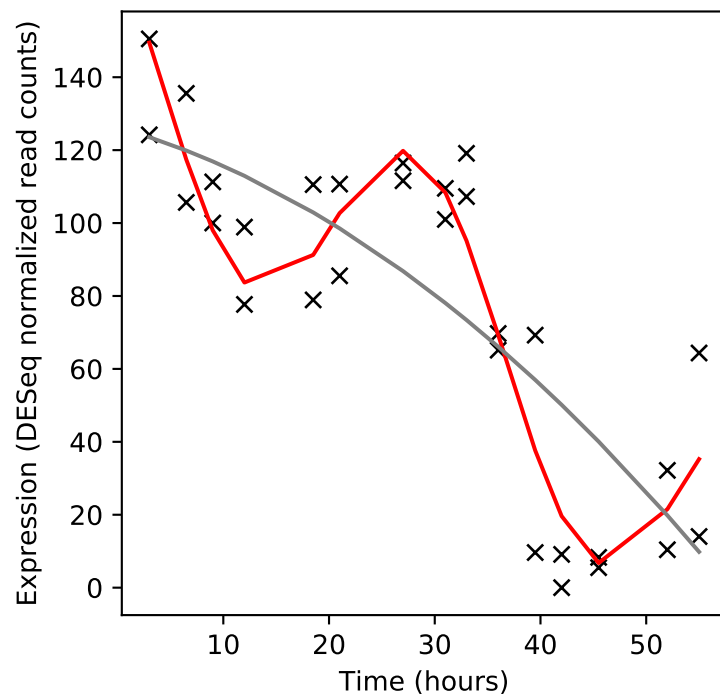
Rv1340/rphA



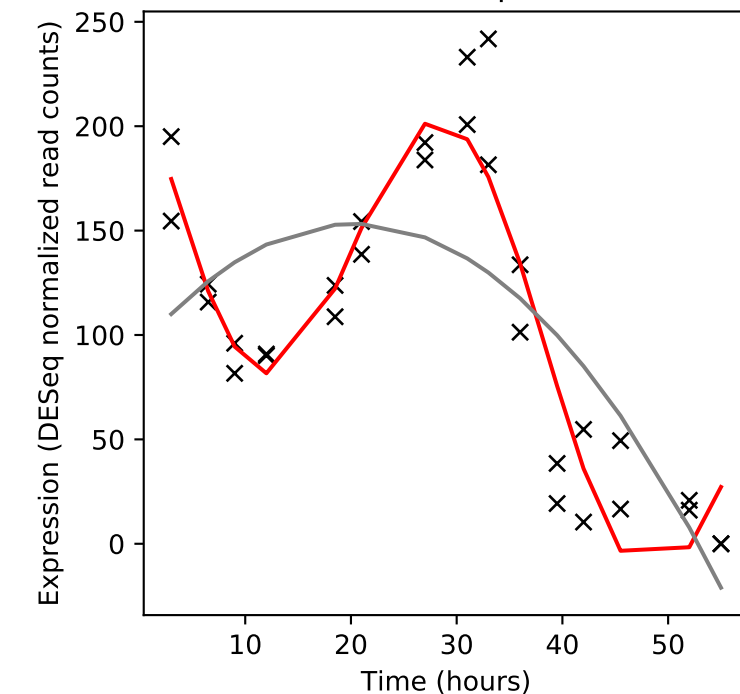
Rv1341/-



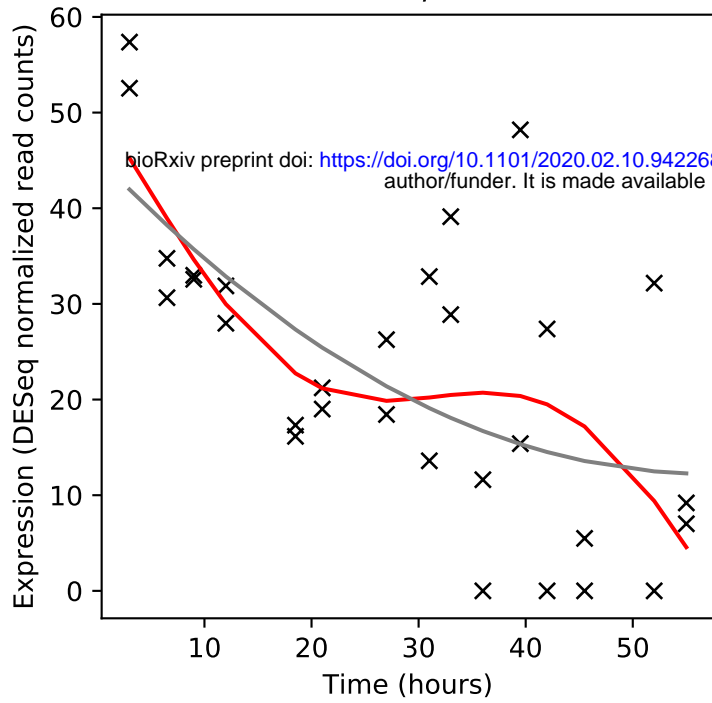
Rv1342c/-



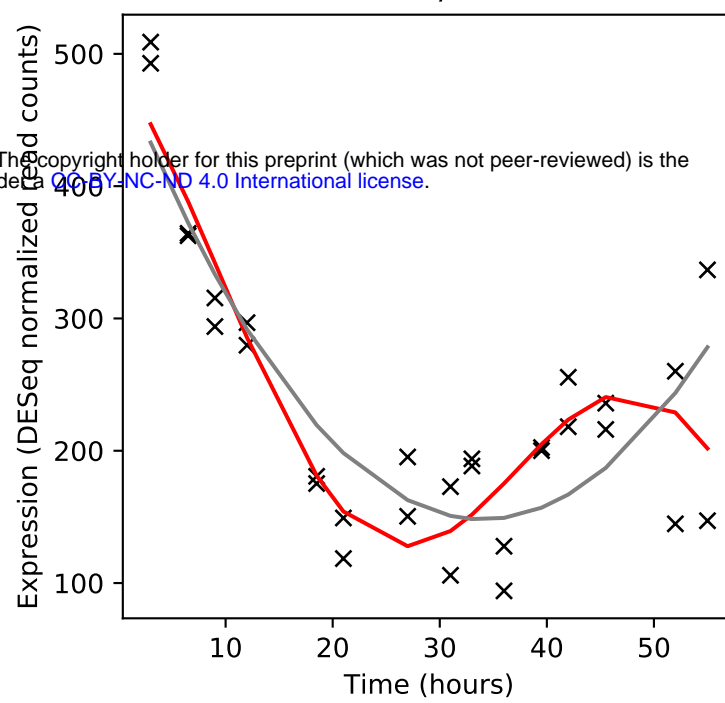
Rv1343c/lprD



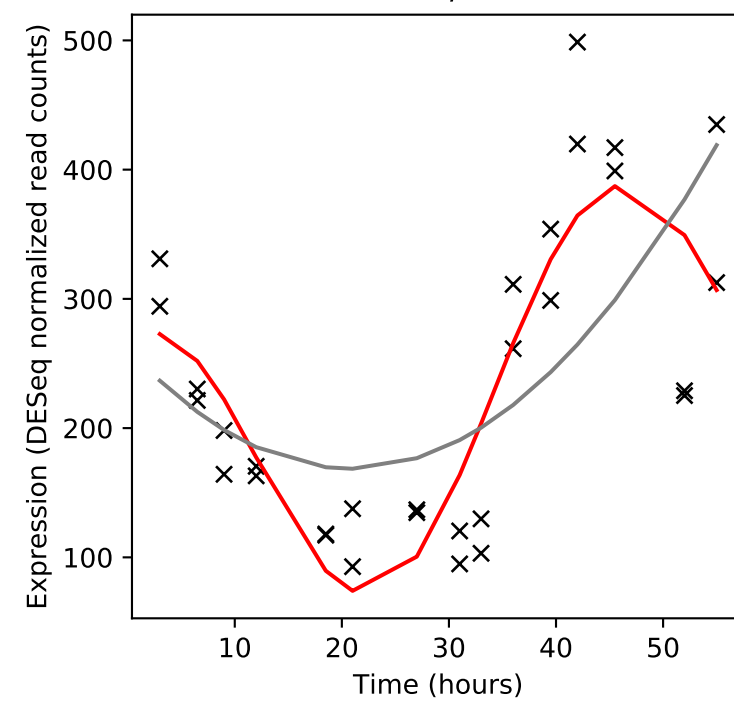
Rv1344/mbtL



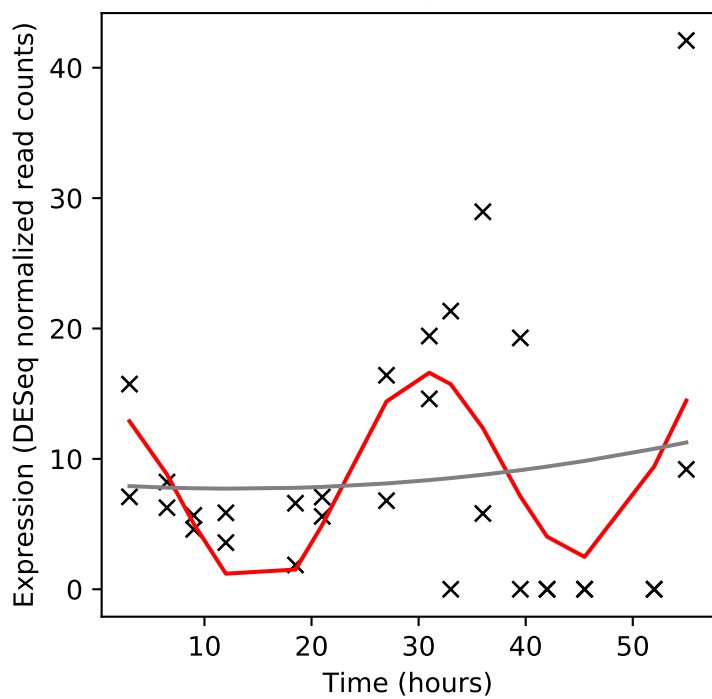
Rv1345/mbtM



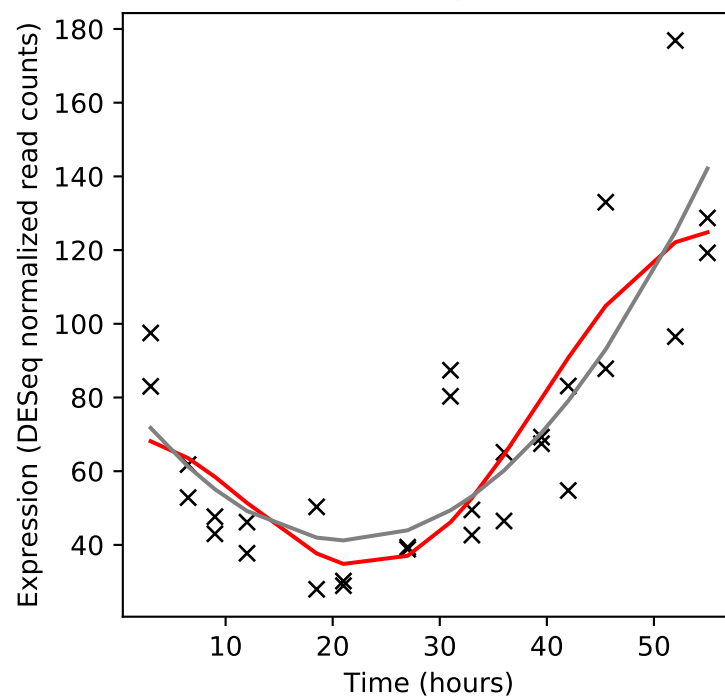
Rv1346/mbtN



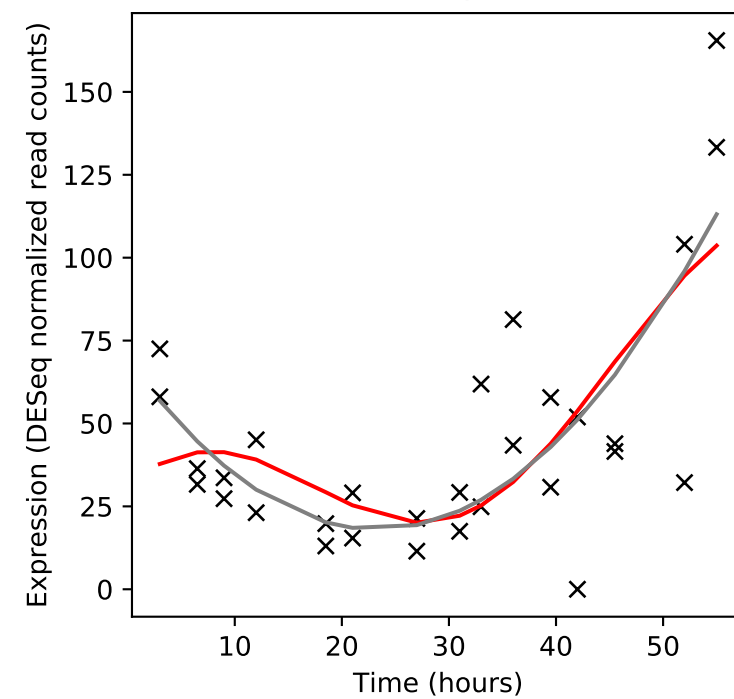
Rv1347c/mbtK



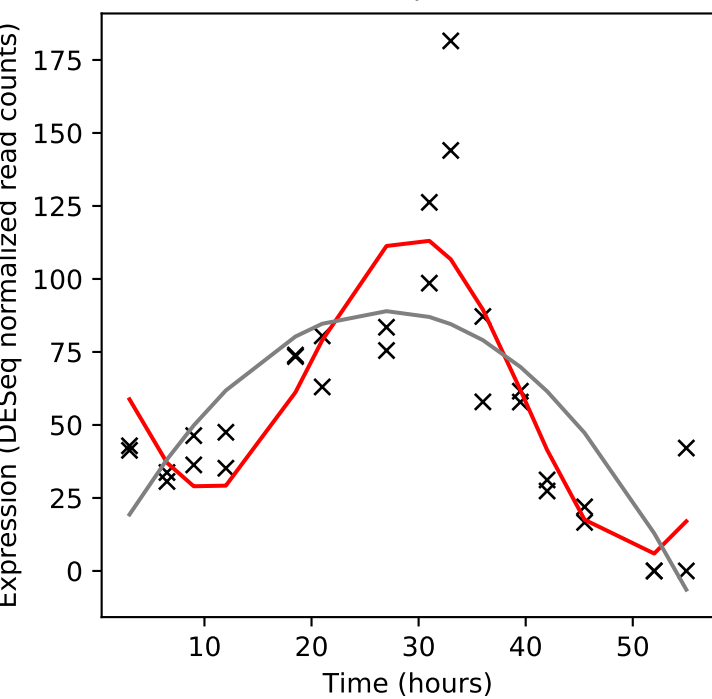
Rv1348/irtA



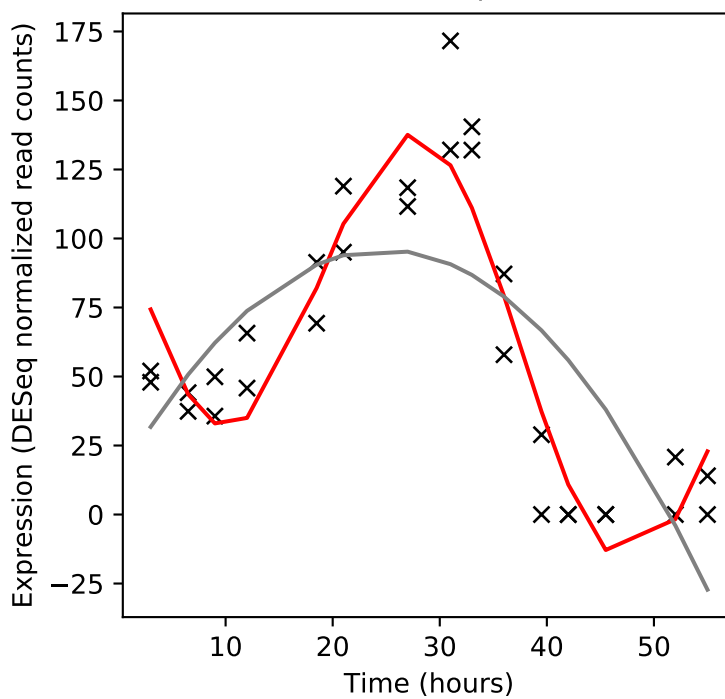
Rv1349/irtB



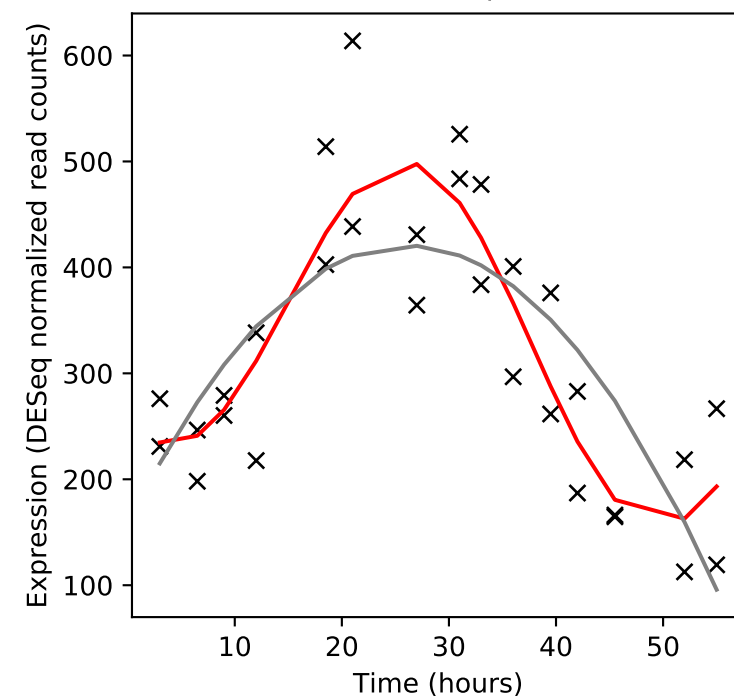
Rv1350/fabG2



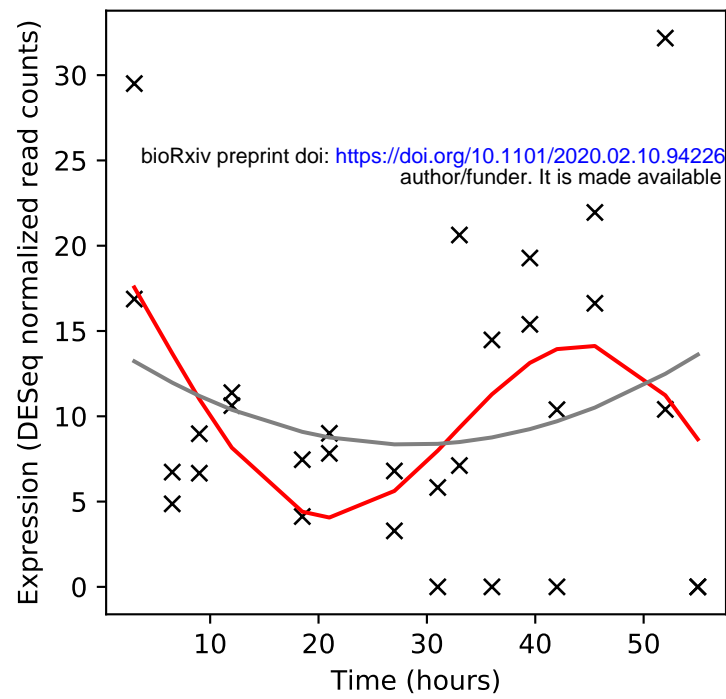
Rv1351/-



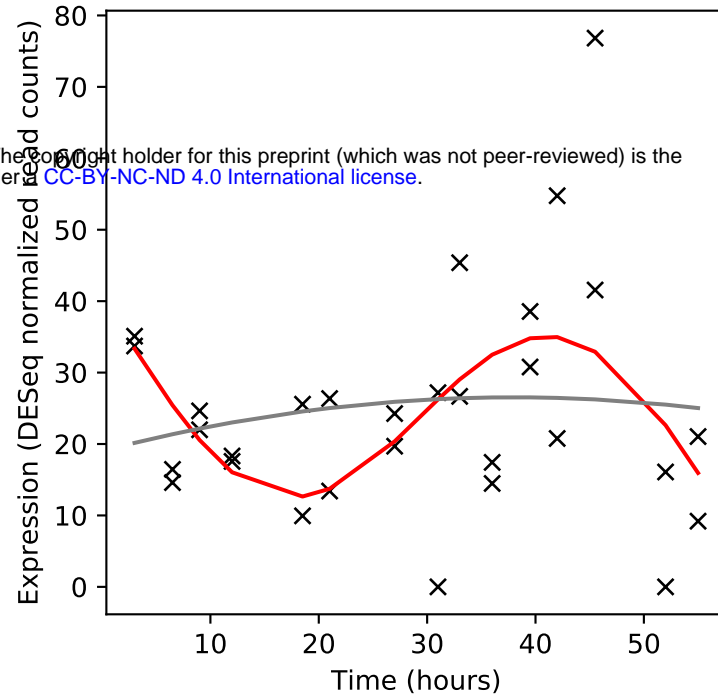
Rv1352/-



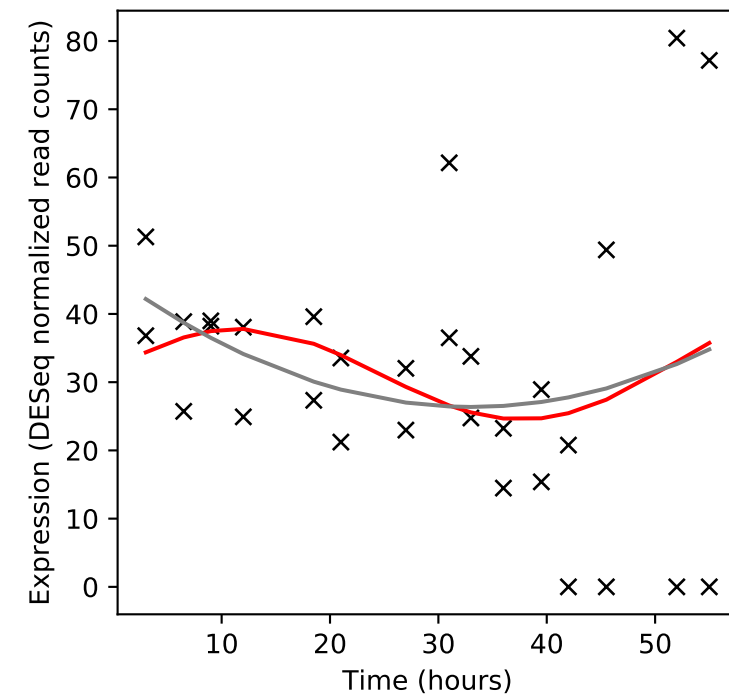
Rv1353c/-



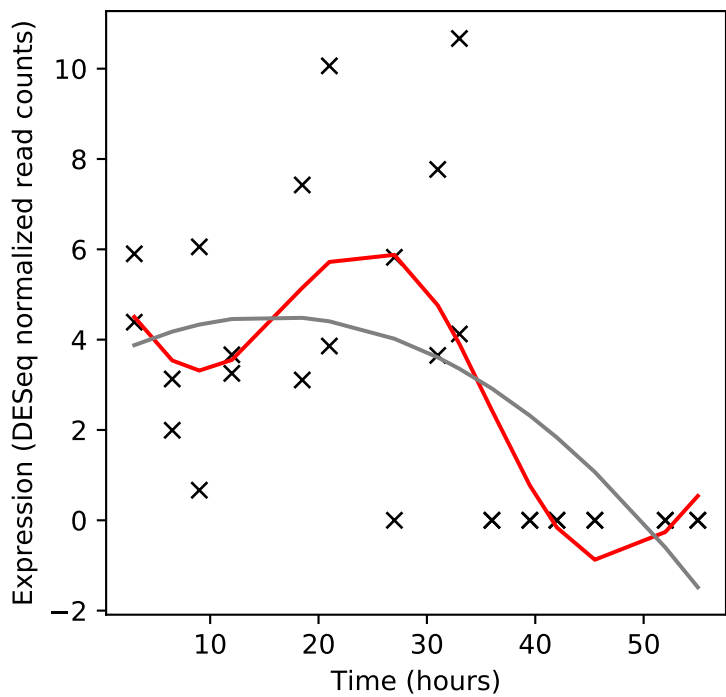
Rv1354c/-



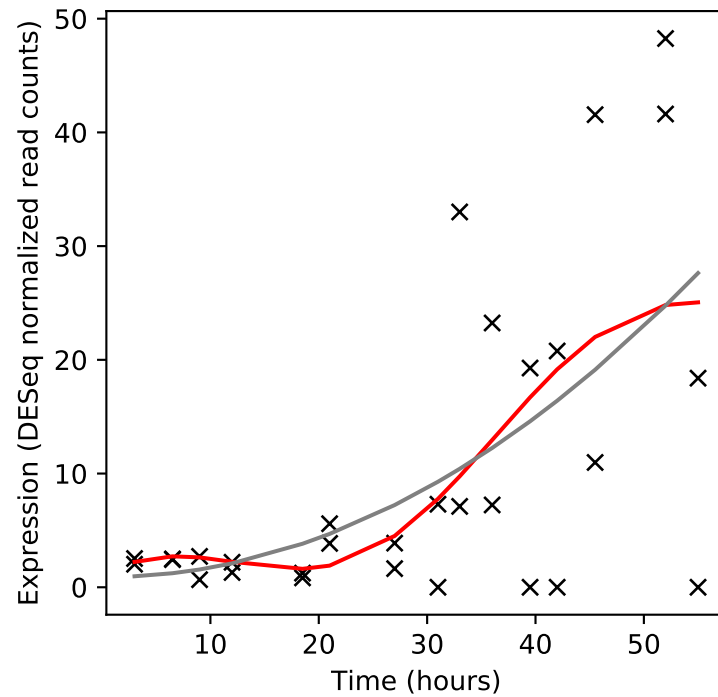
Rv1355c/moeY



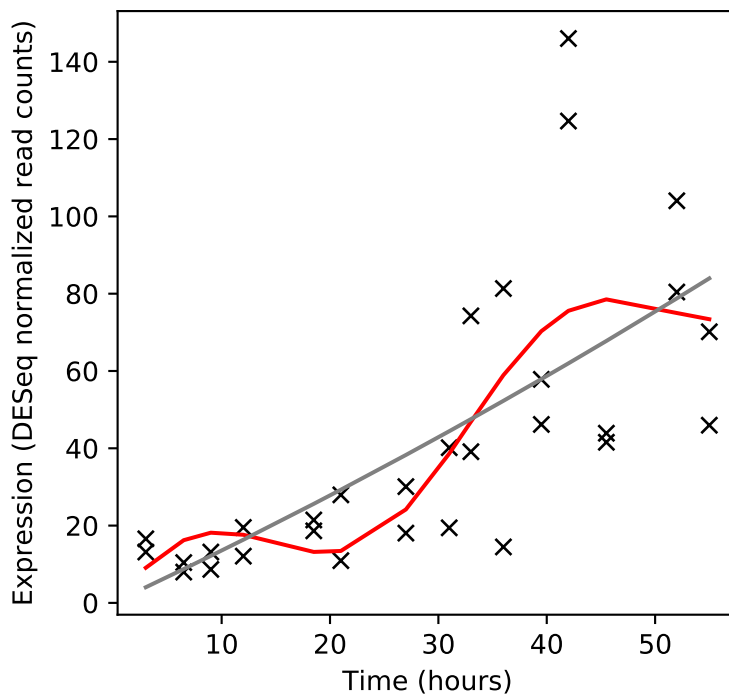
Rv1356c/-



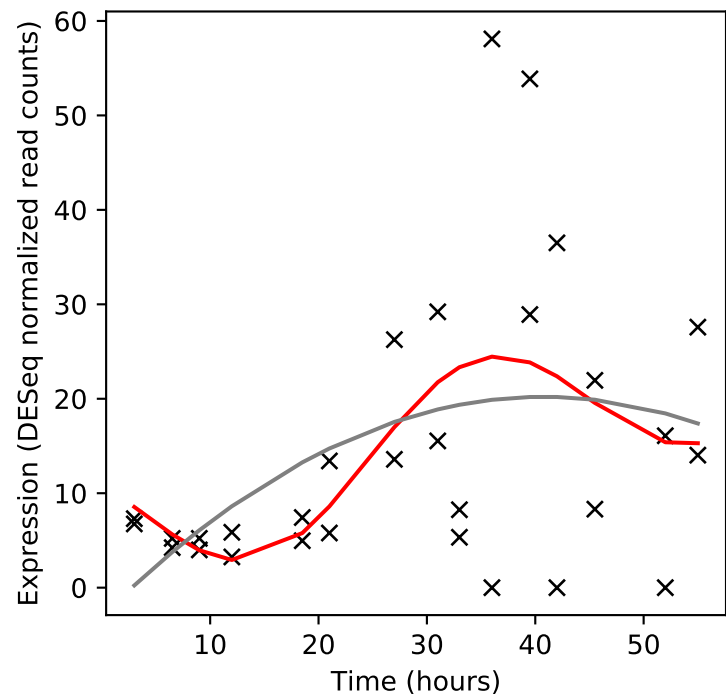
Rv1357c/-



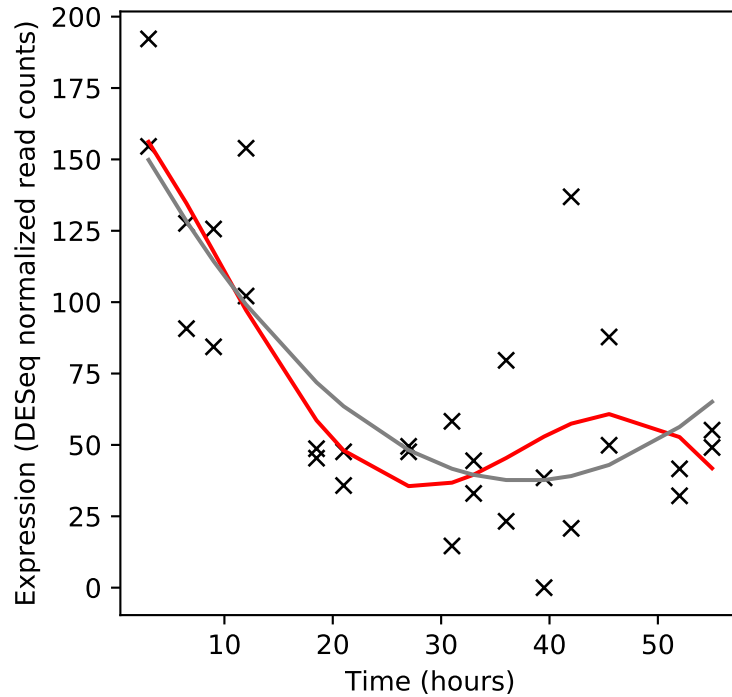
Rv1358/-



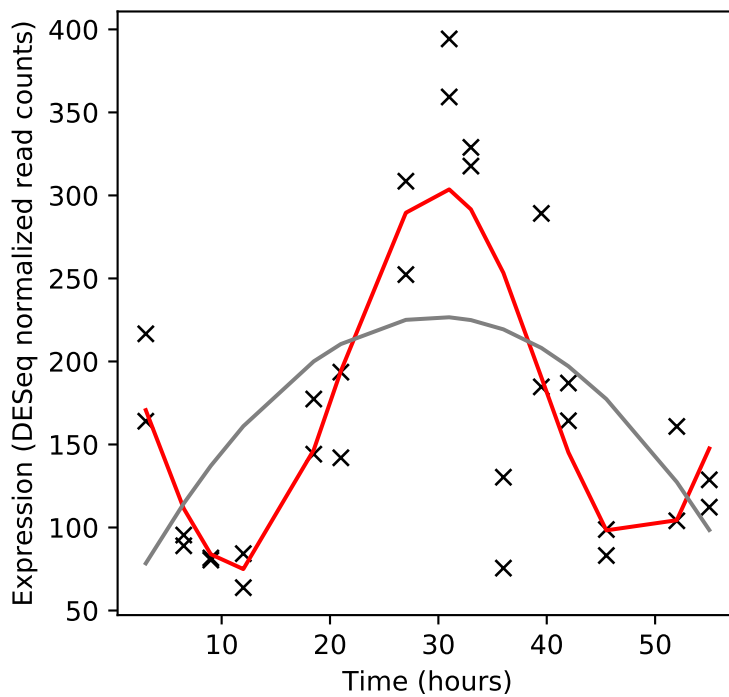
Rv1359/-



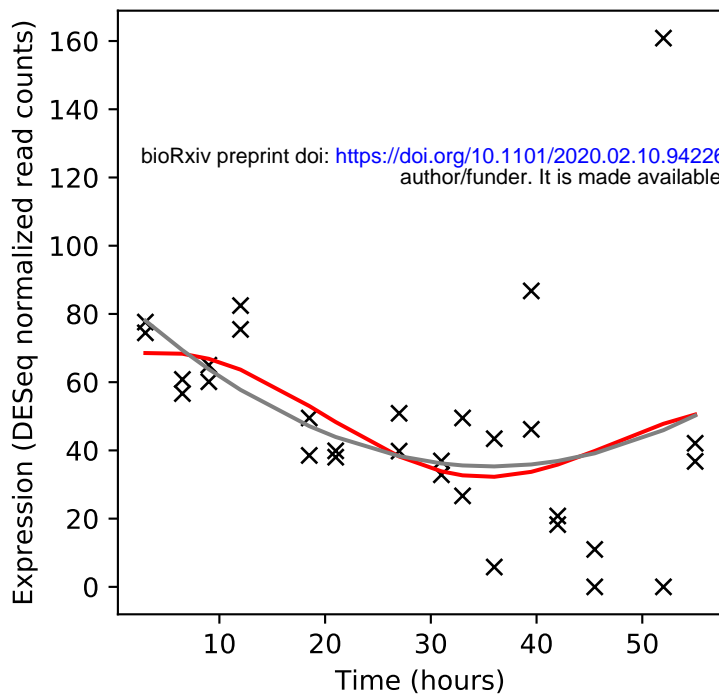
Rv1360/-



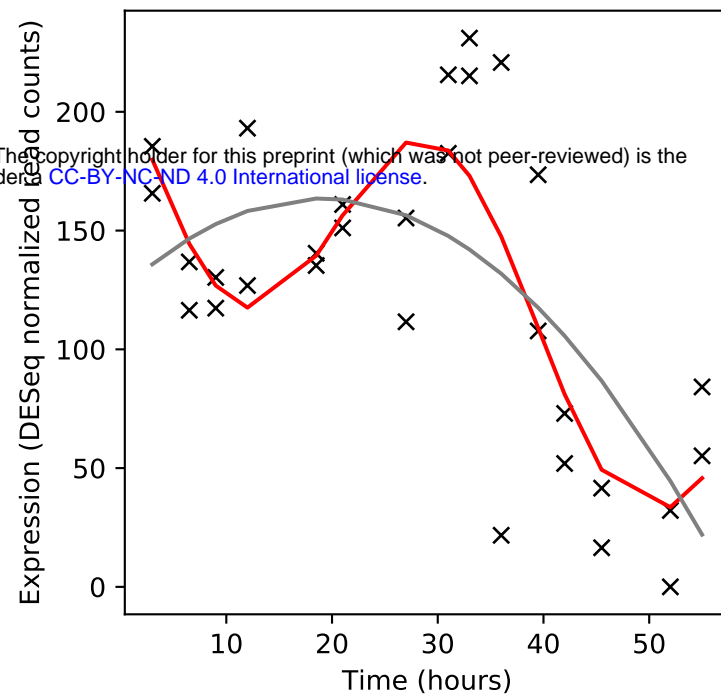
Rv1361c/PPE19



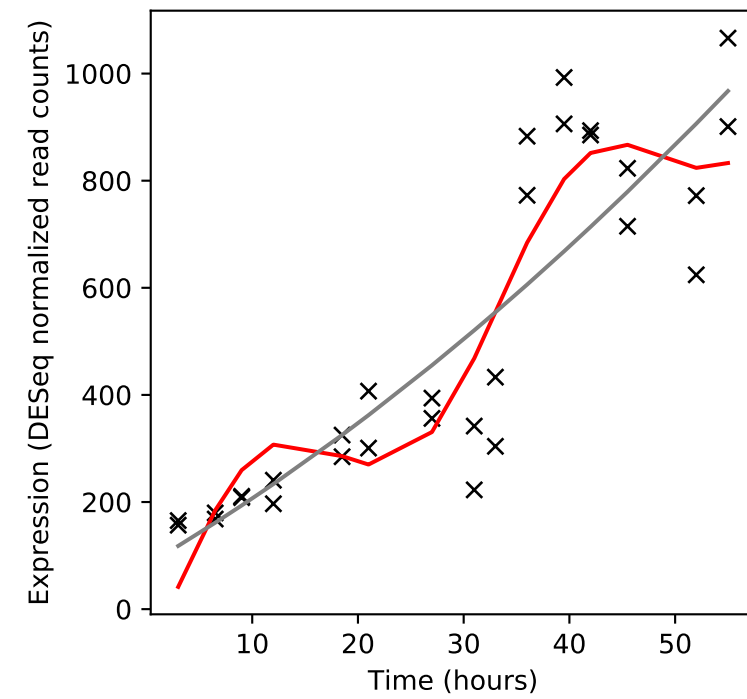
Rv1362c/-



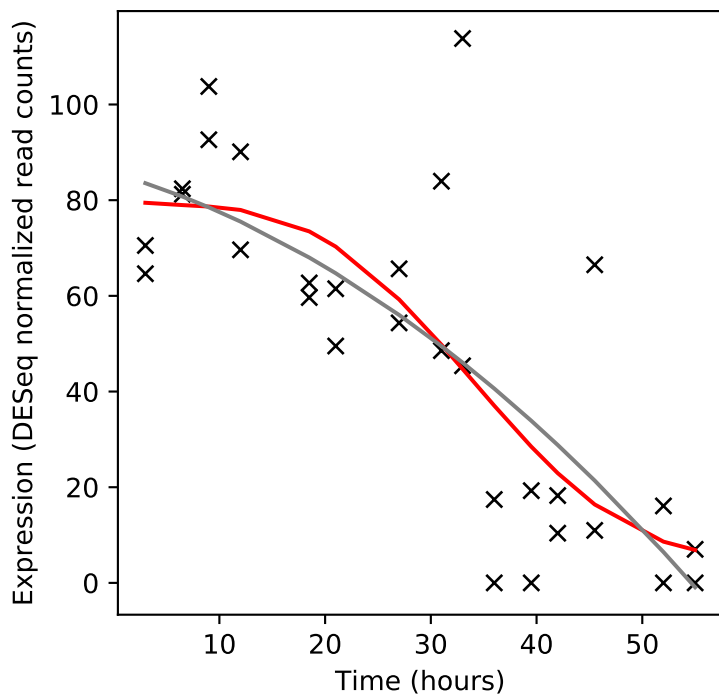
Rv1363c/-



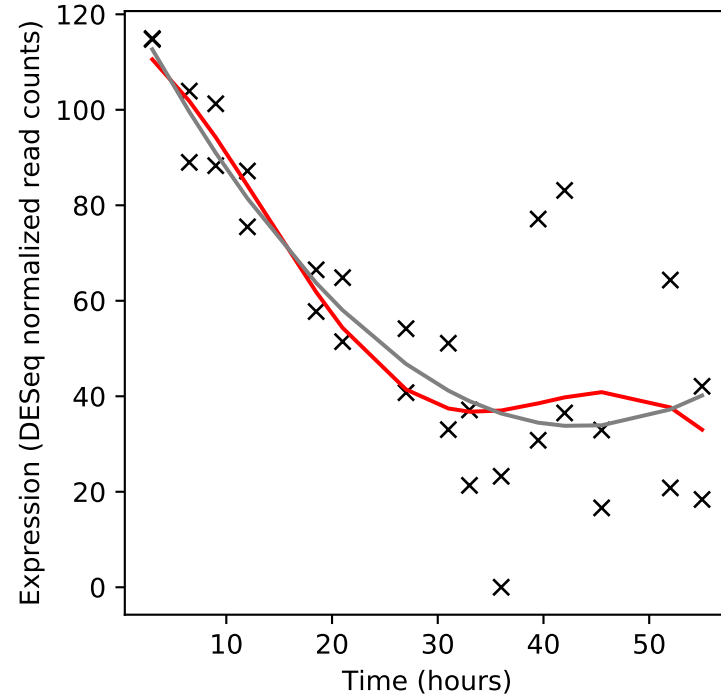
Rv1364c/-



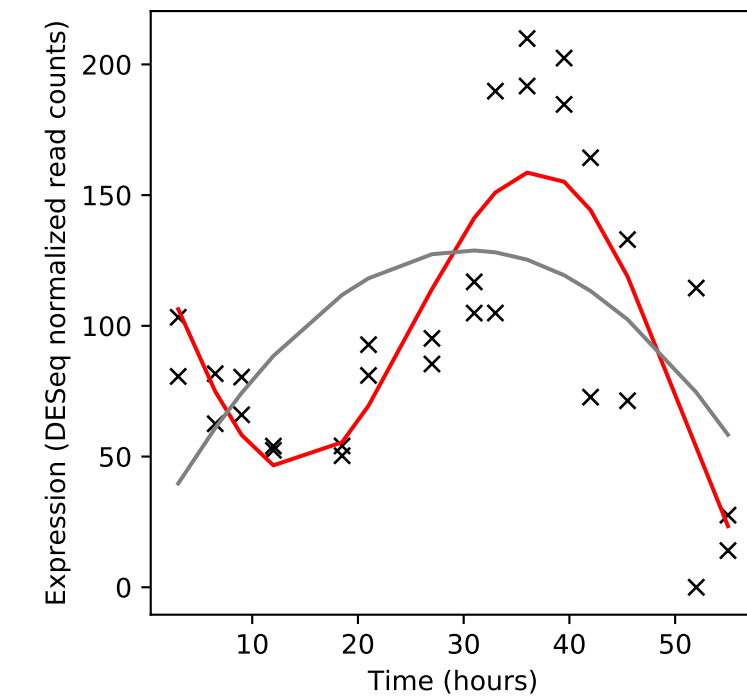
Rv1365c/rsfA



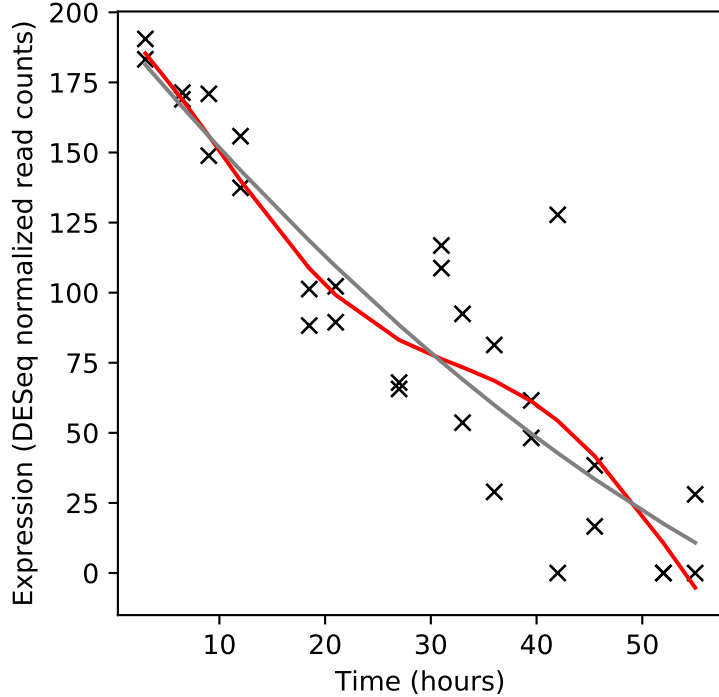
Rv1366/-



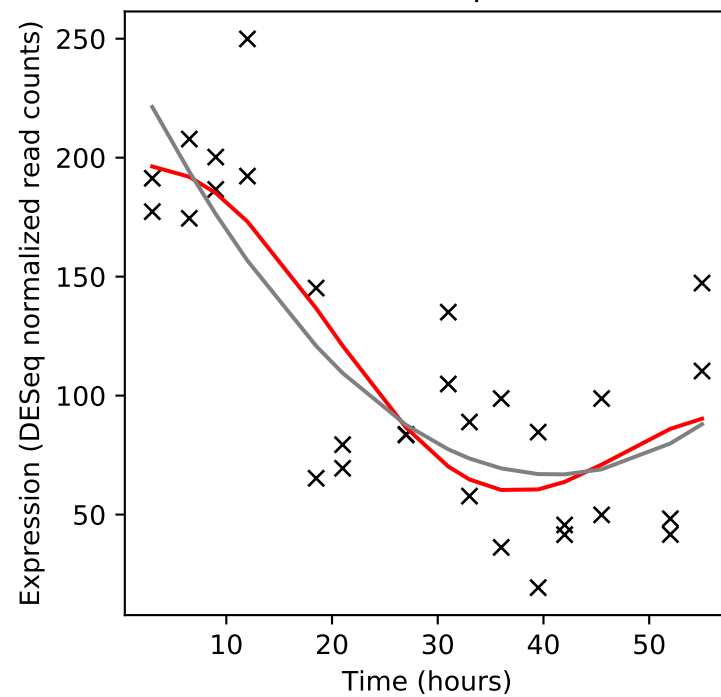
Rv1366A/-



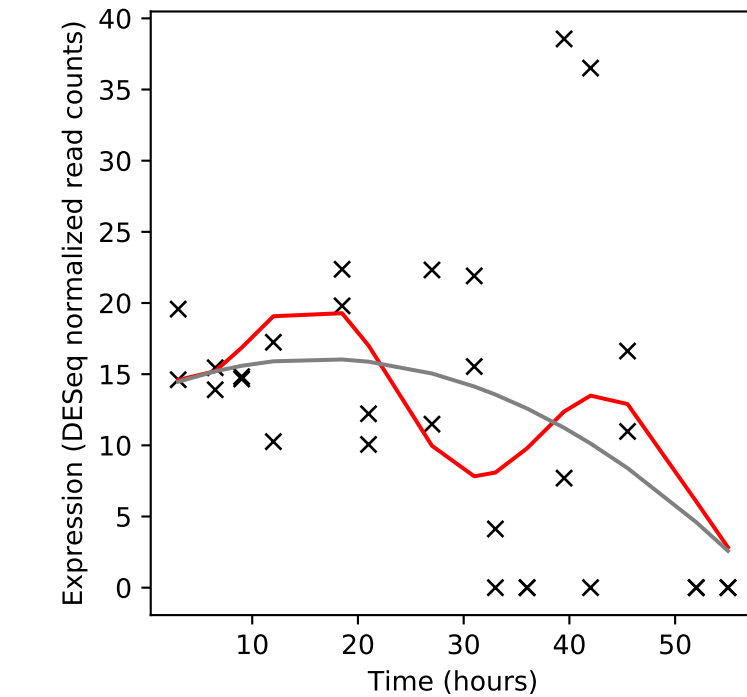
Rv1367c/-



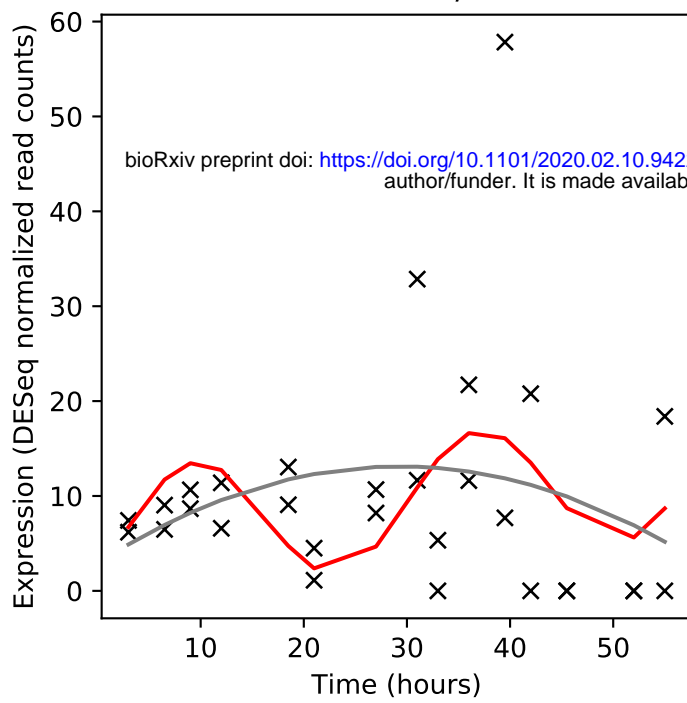
Rv1368/lprF



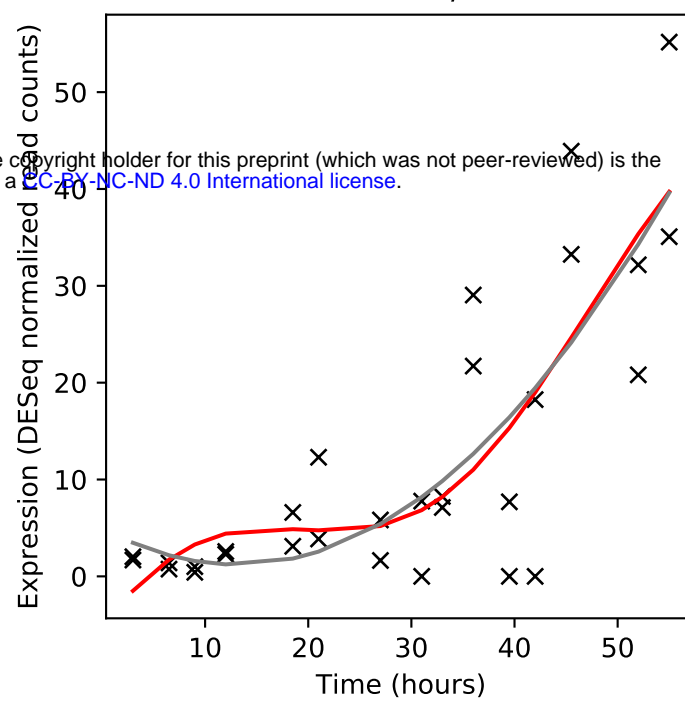
Rv1369c/-



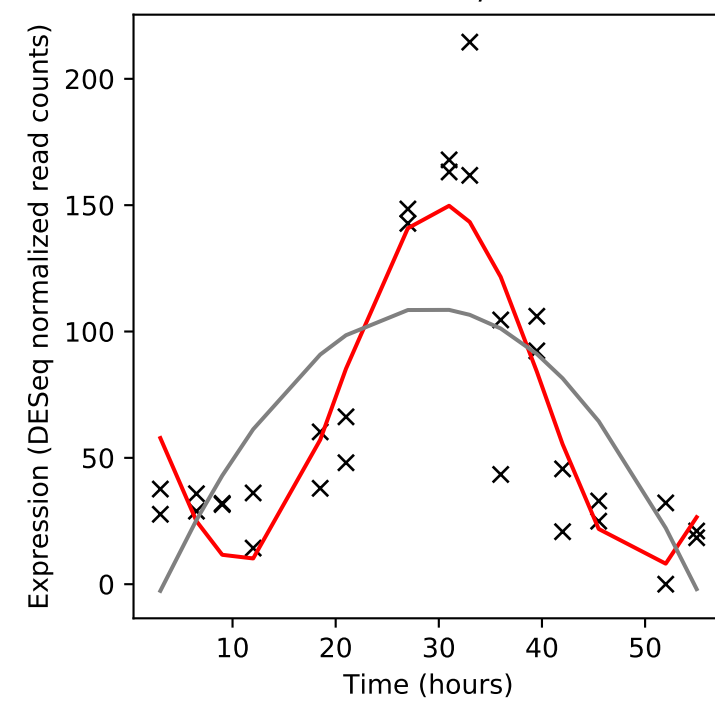
Rv1370c/-



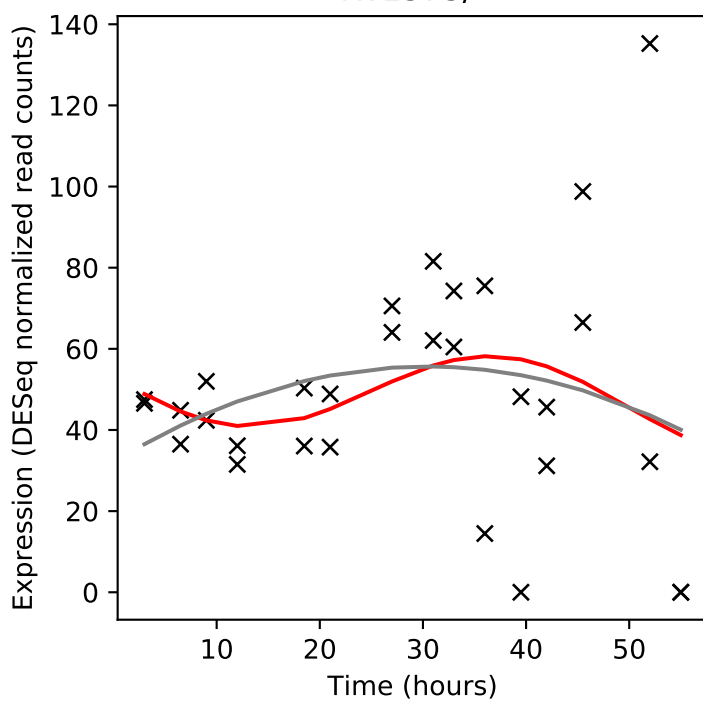
Rv1371/-



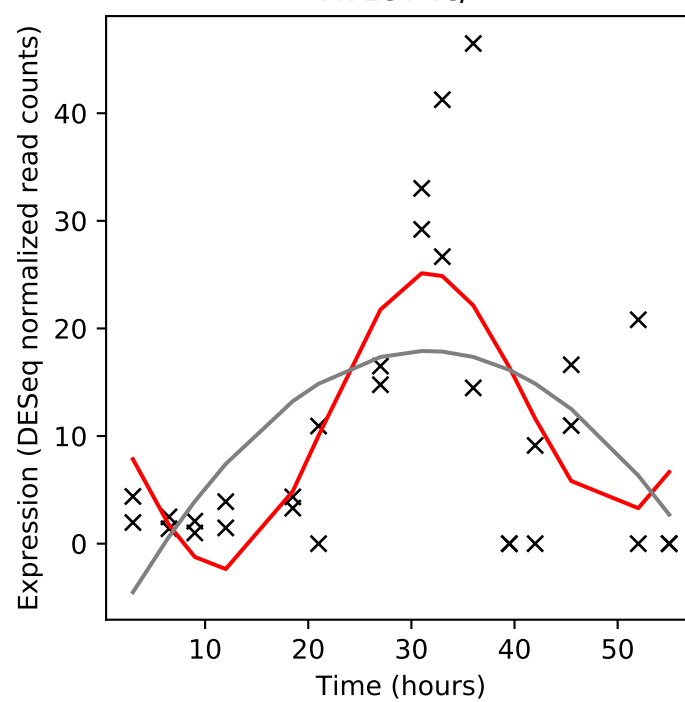
Rv1372/-



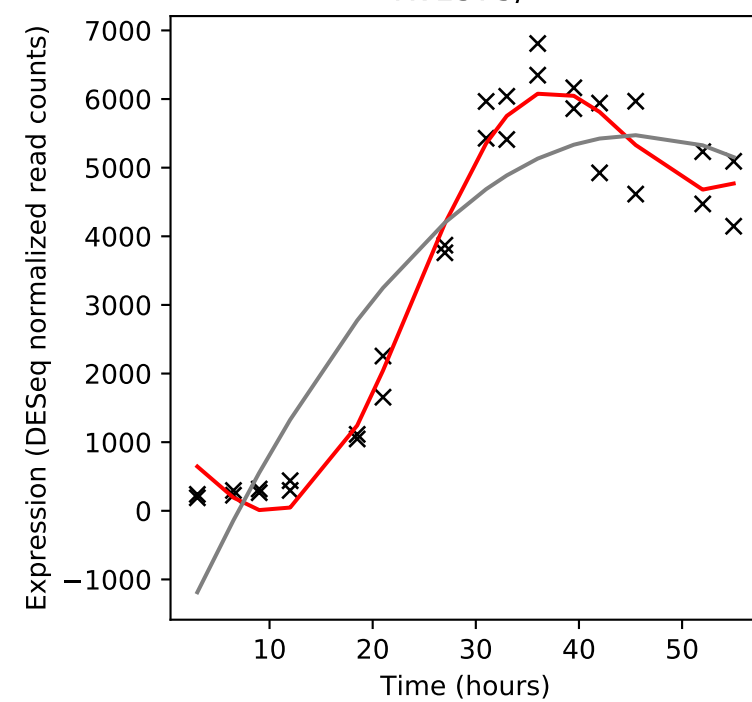
Rv1373/-



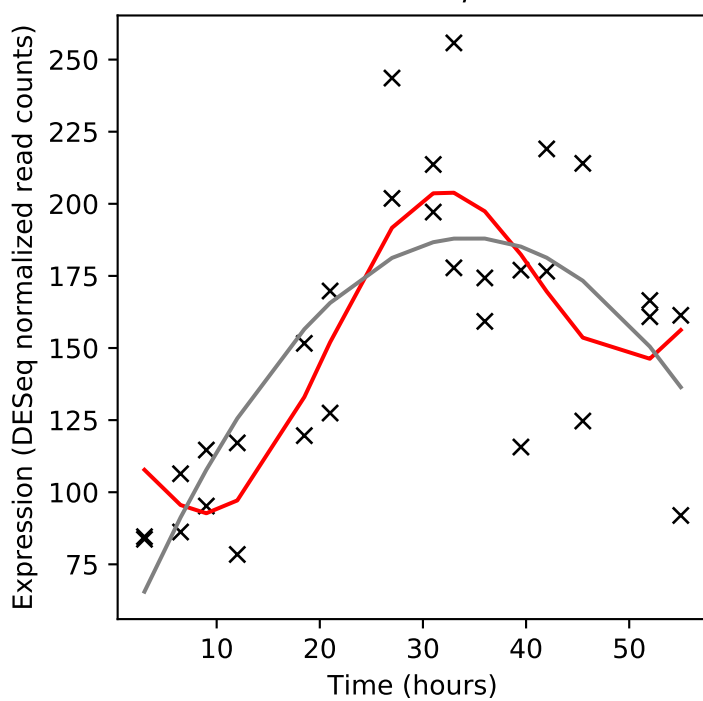
Rv1374c/-



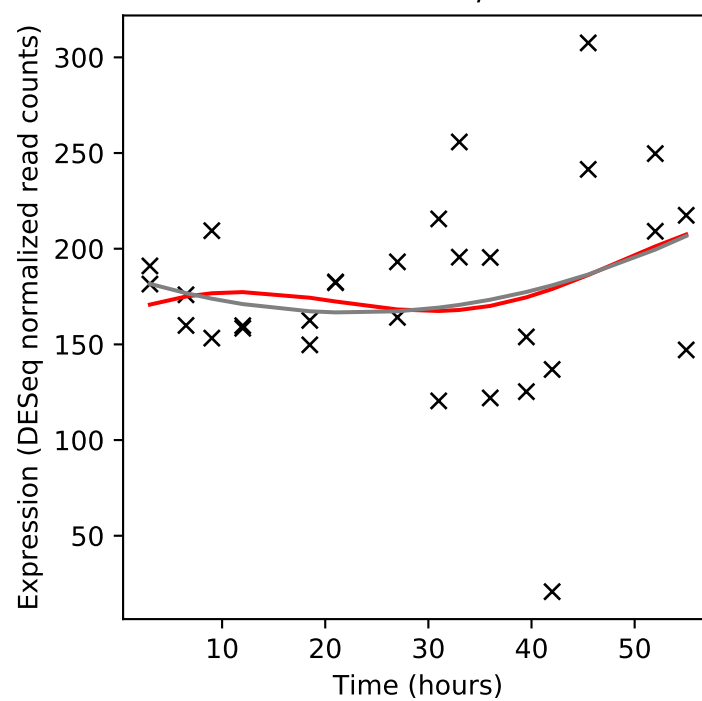
Rv1375/-



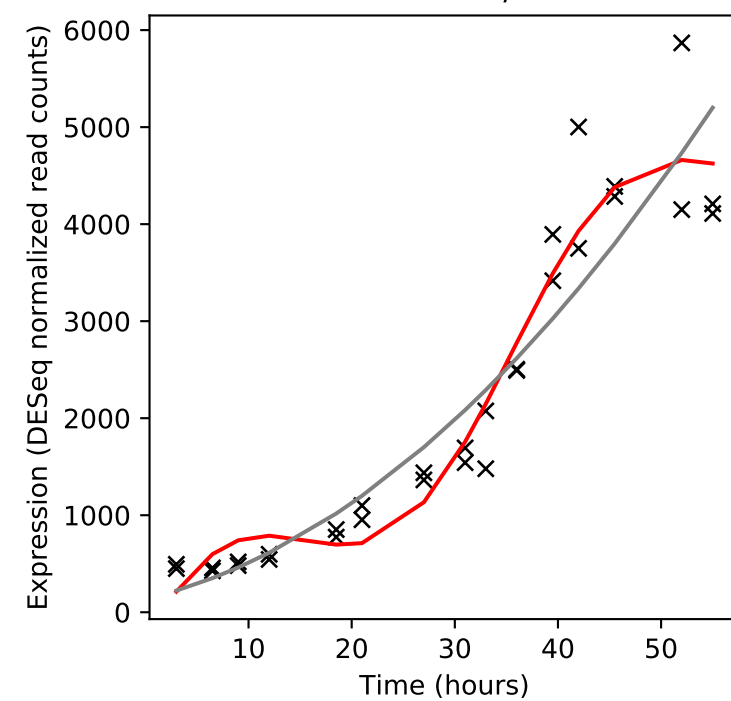
Rv1376/-



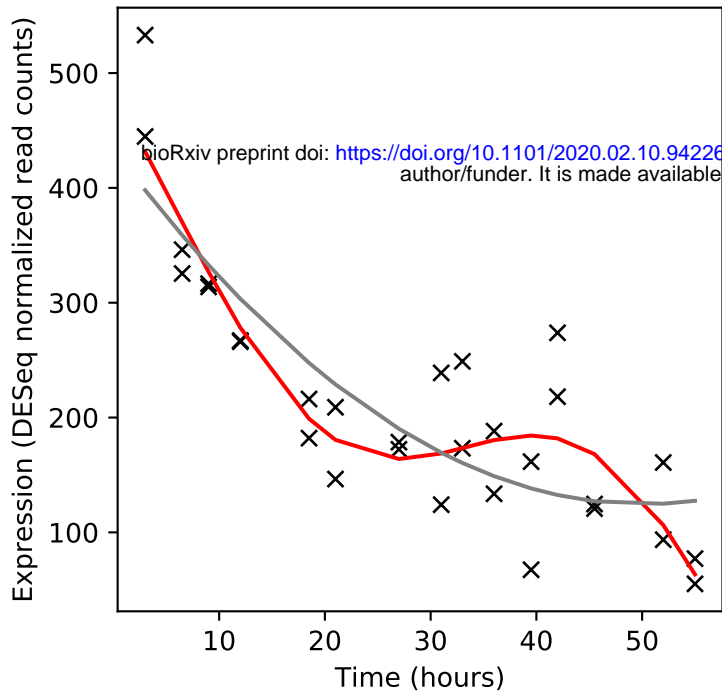
Rv1377c/-



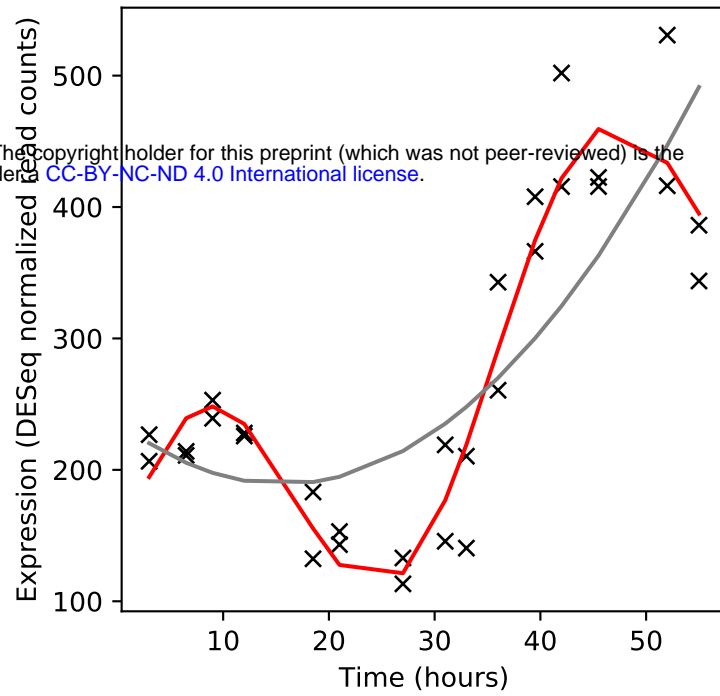
Rv1378c/-



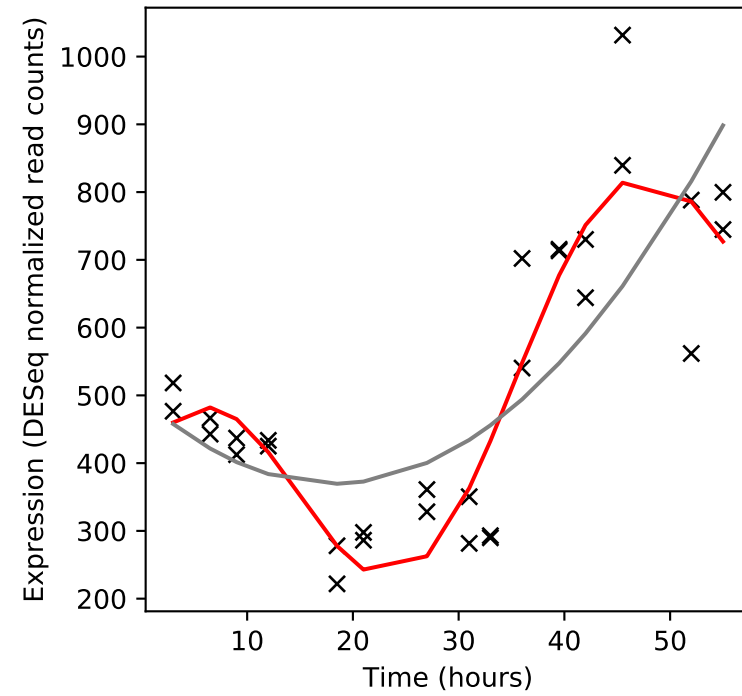
Rv1379/pyrR



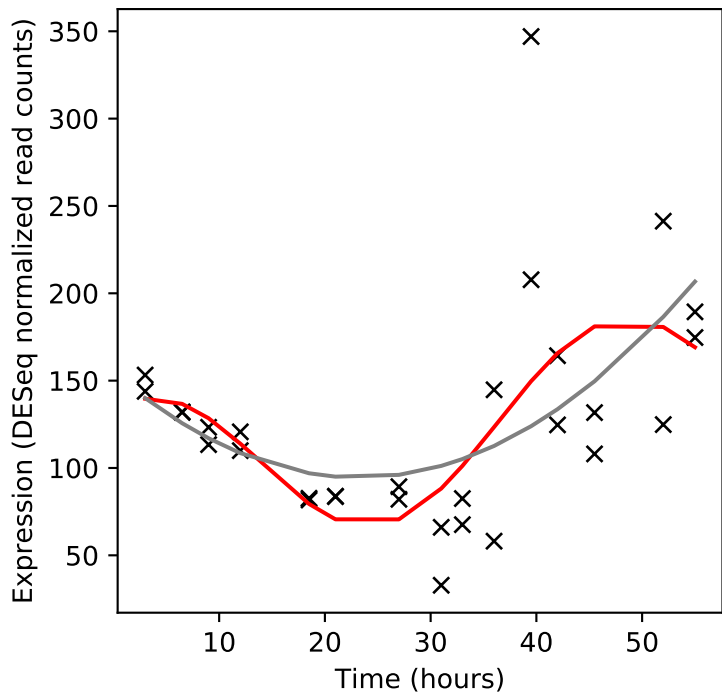
Rv1380/pyrB



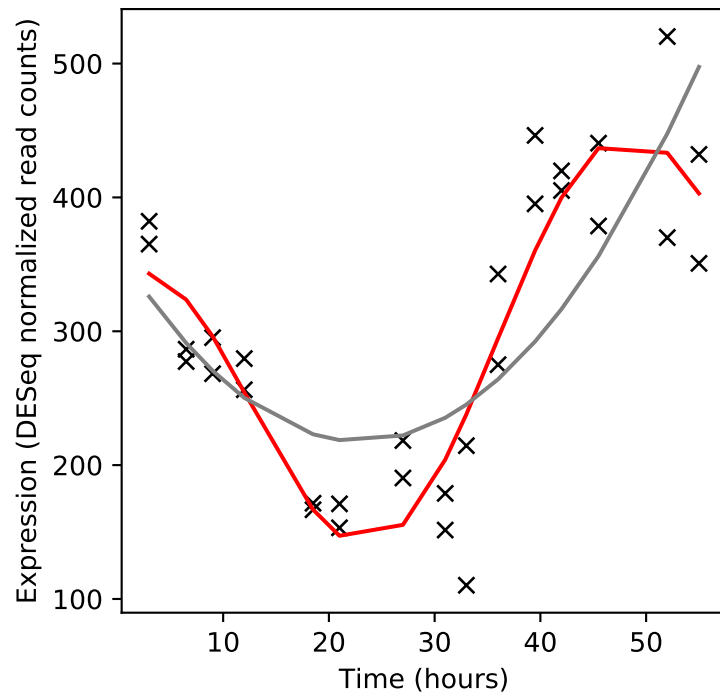
Rv1381/pyrC



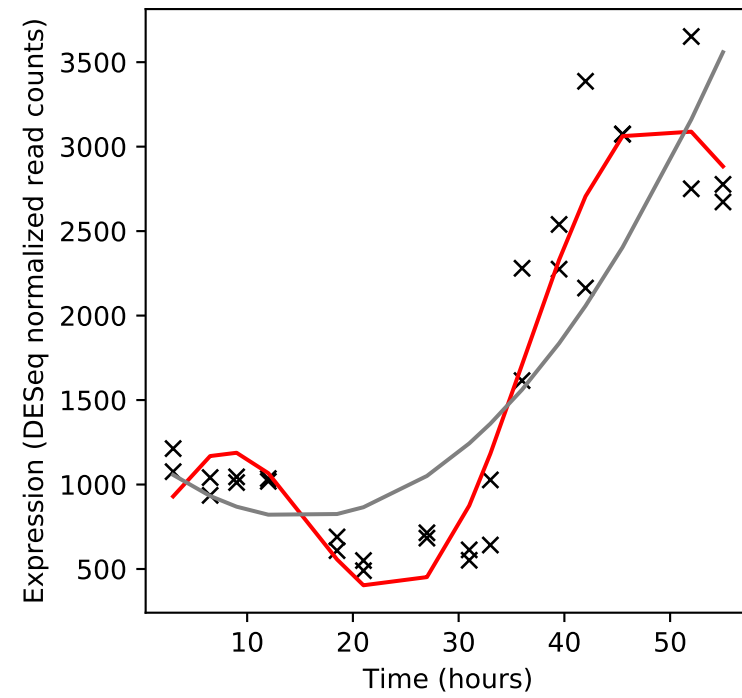
Rv1382/-



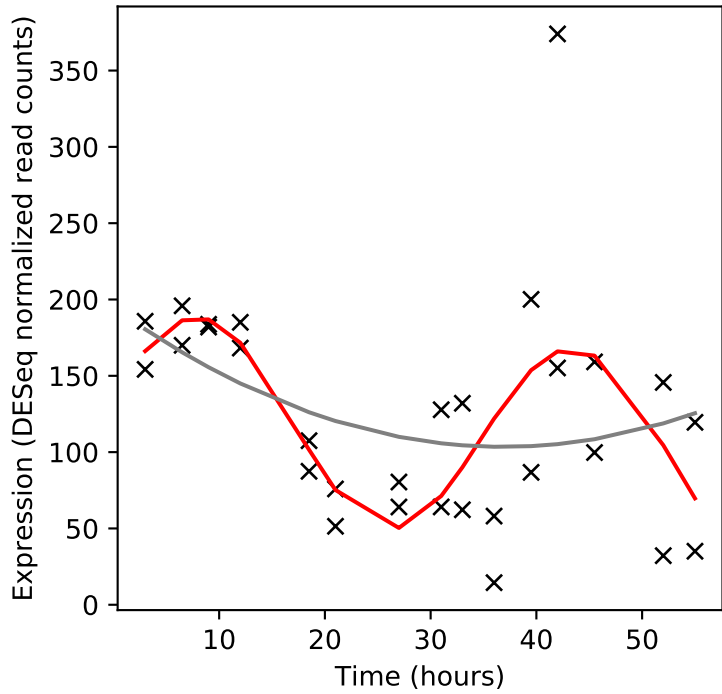
Rv1383/carA



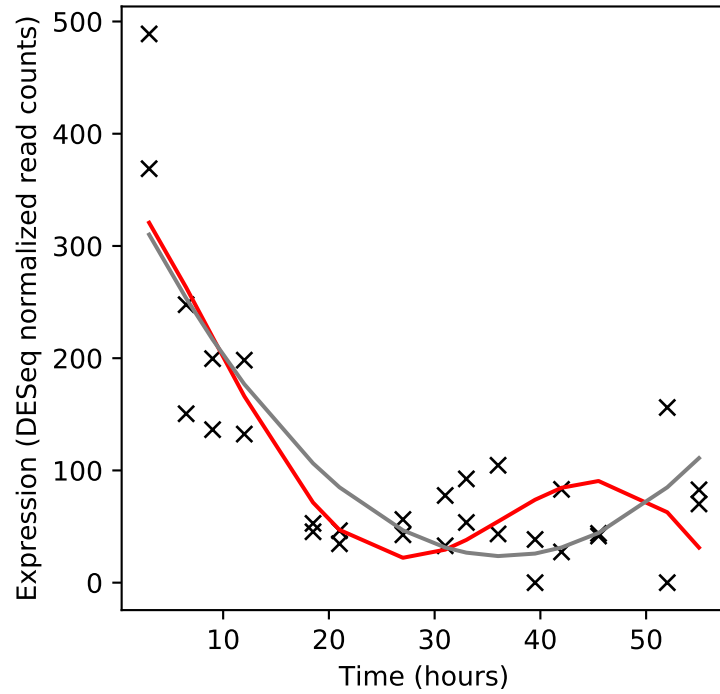
Rv1384/carB



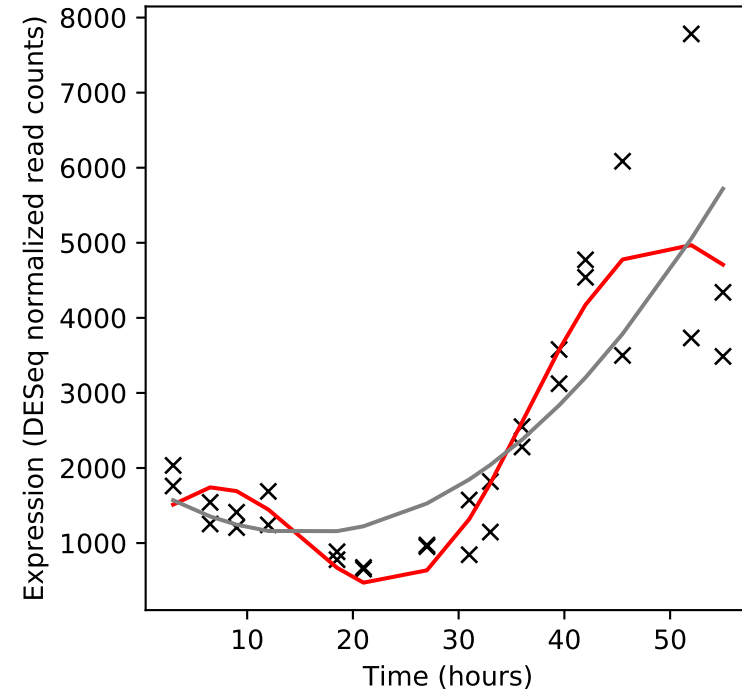
Rv1385/pyrF



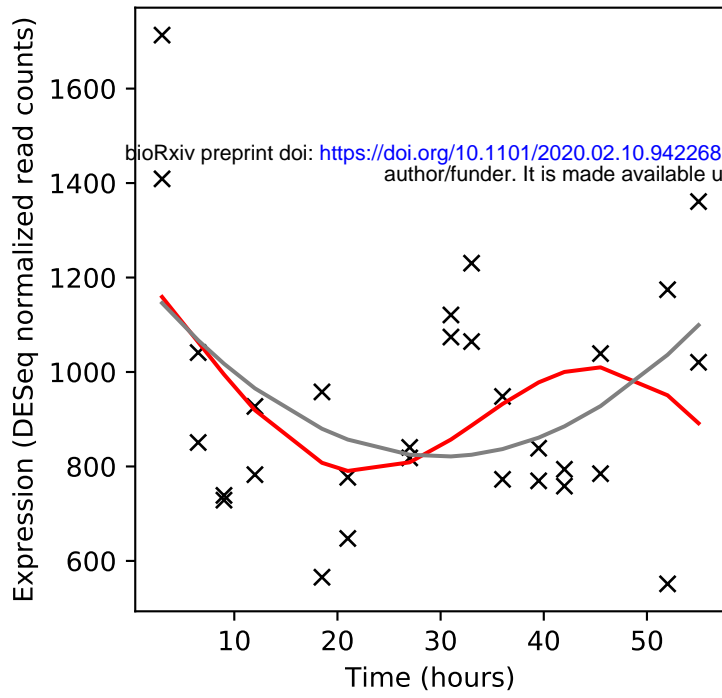
Rv1386/PE15



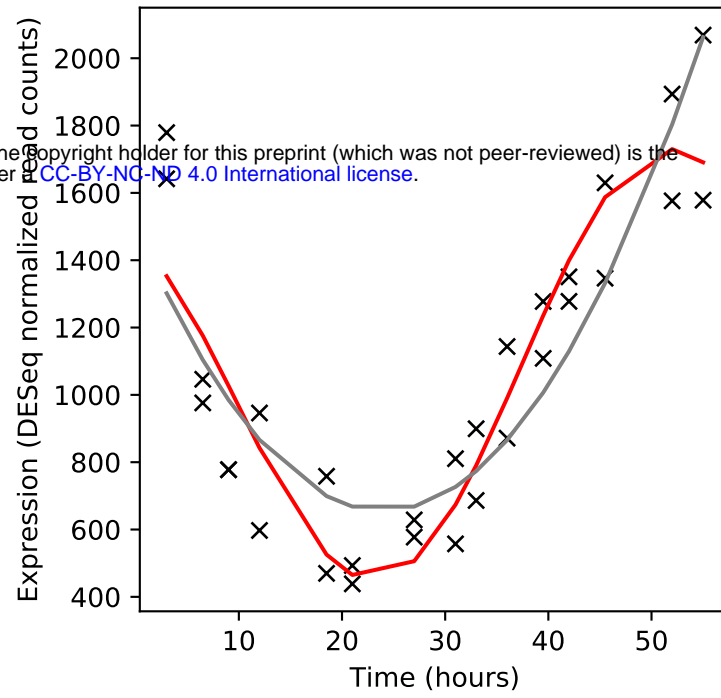
Rv1387/PPE20



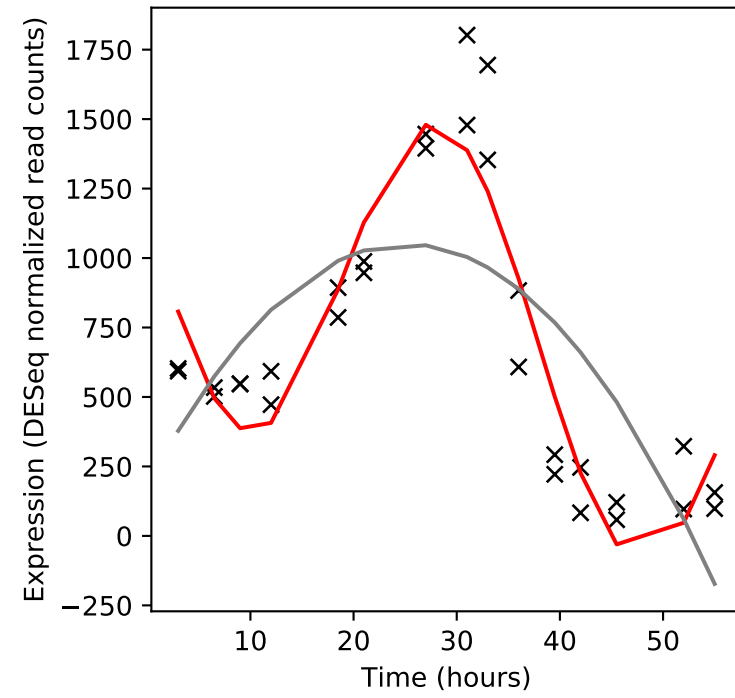
Rv1388/mihF



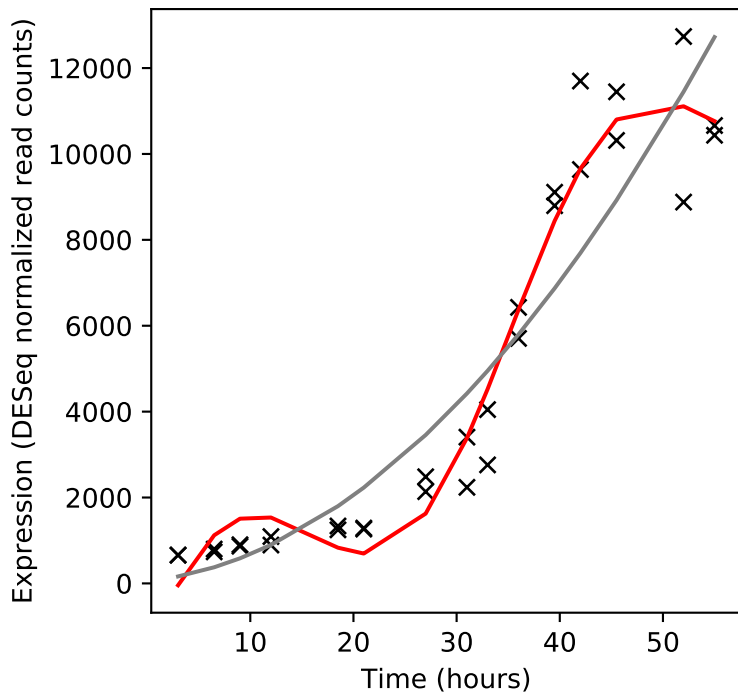
Rv1389/gmk



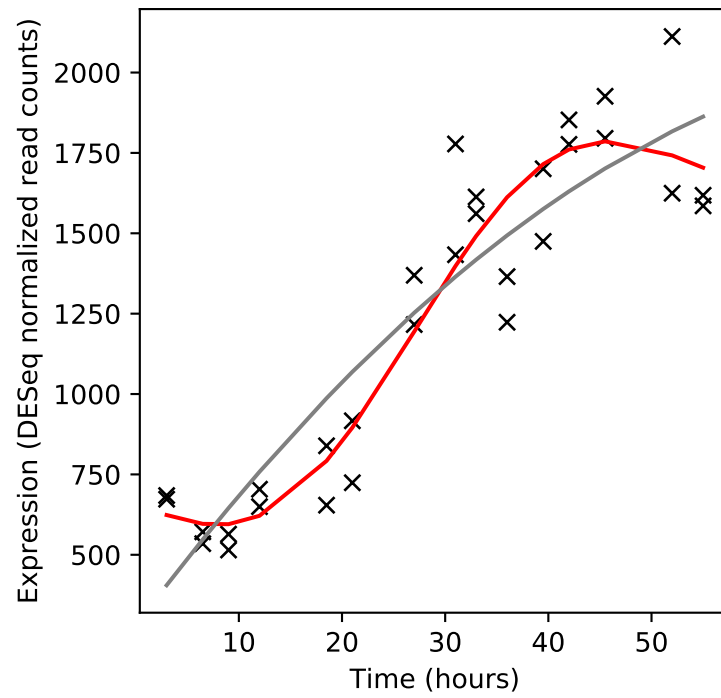
Rv1390/rpoZ



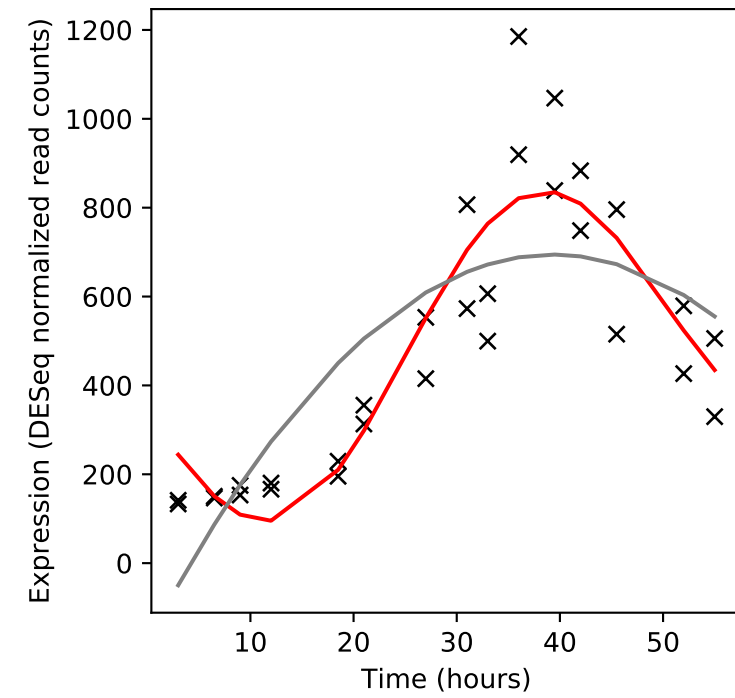
Rv1391/dfp



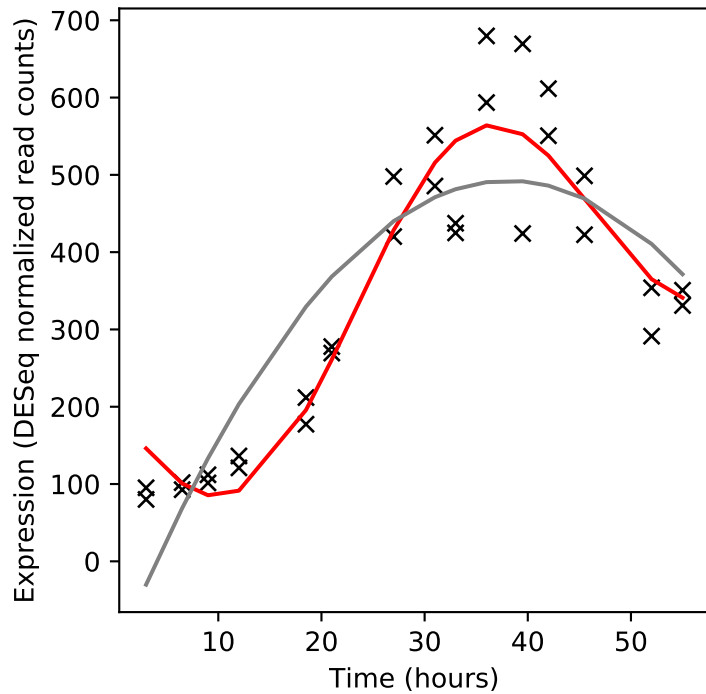
Rv1392/metK



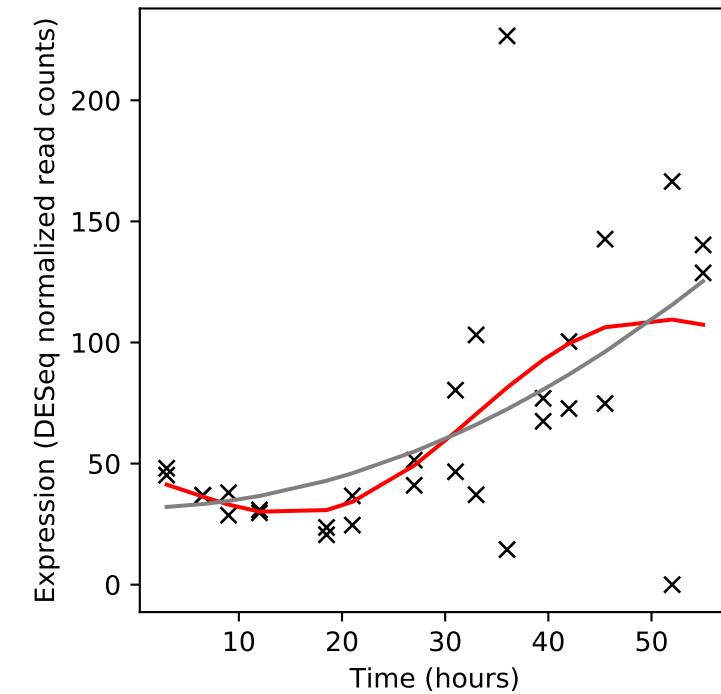
Rv1393c/-



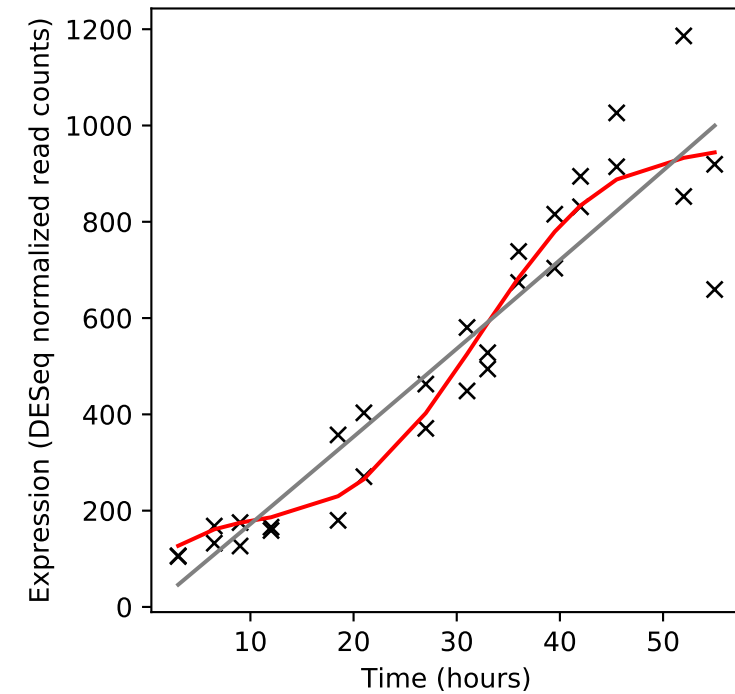
Rv1394c/cyp132



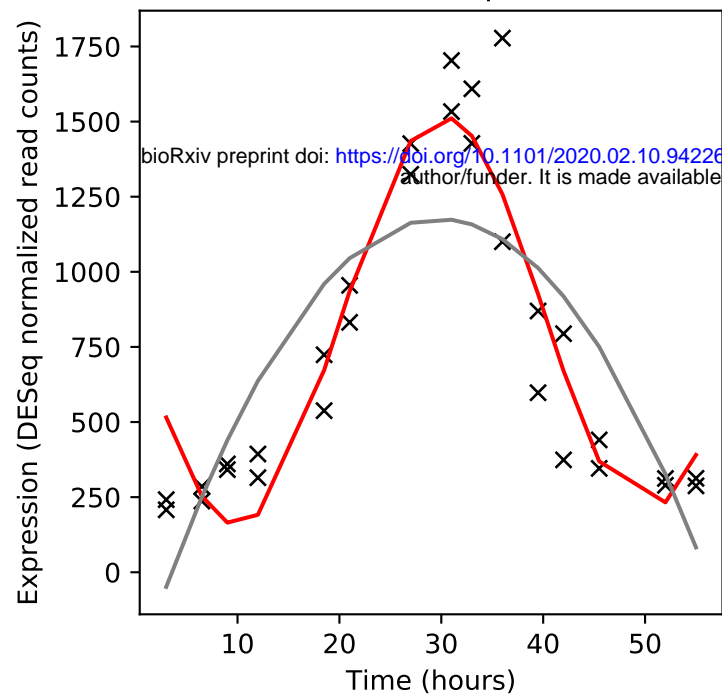
Rv1395/-



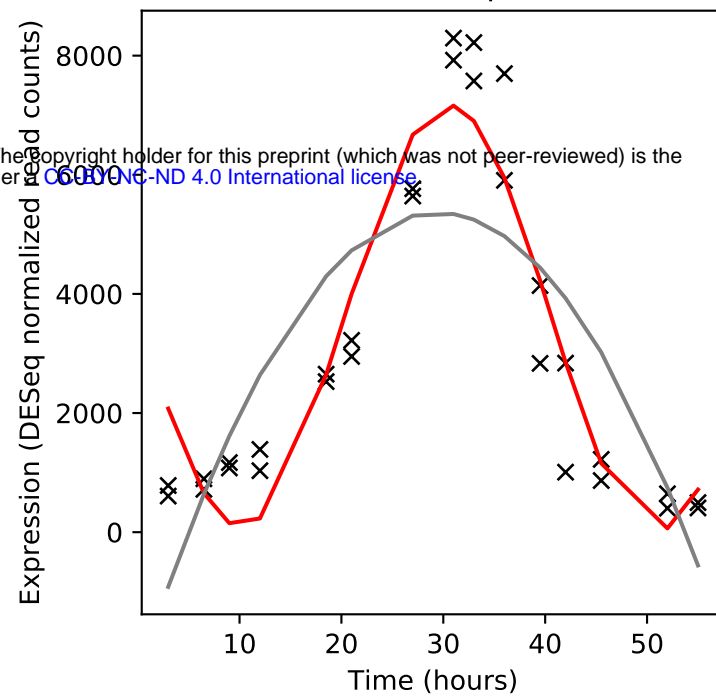
Rv1396c/PE_PGRS25



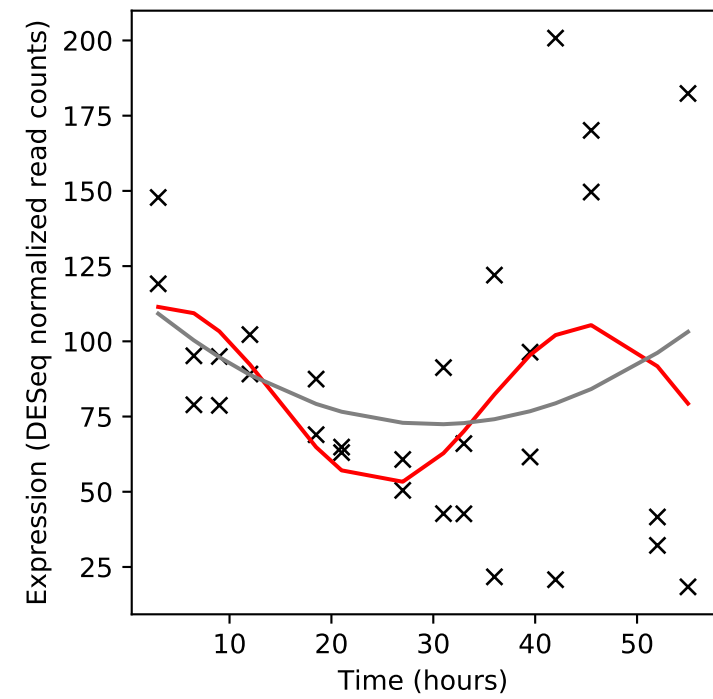
Rv1397c/vapC10



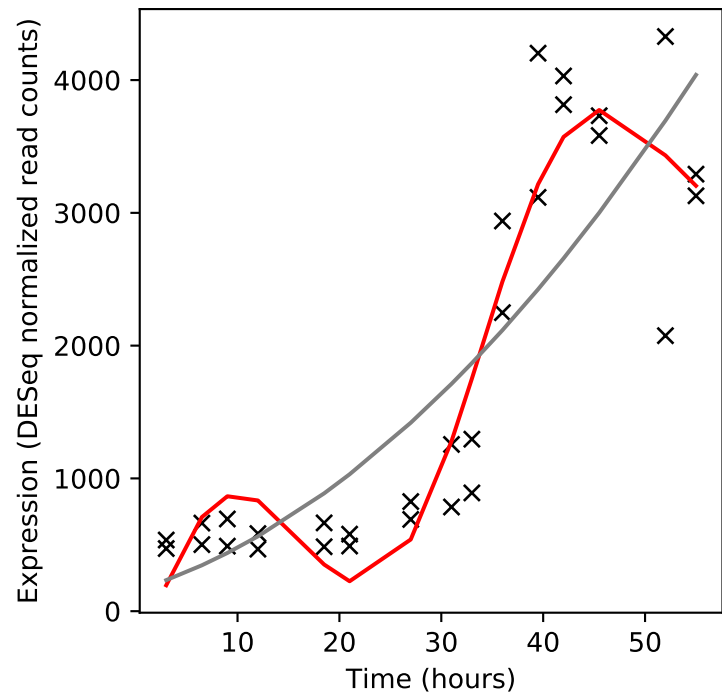
Rv1398c/vapB10



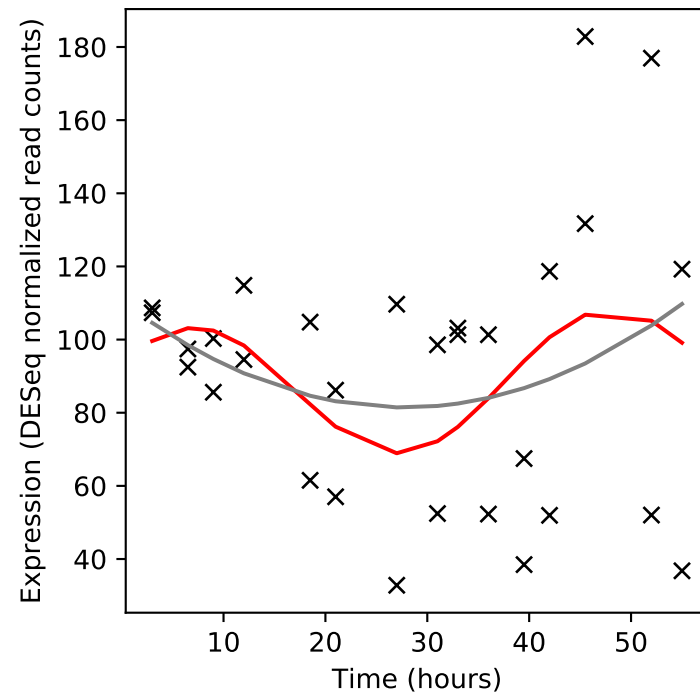
Rv1399c/nlhH



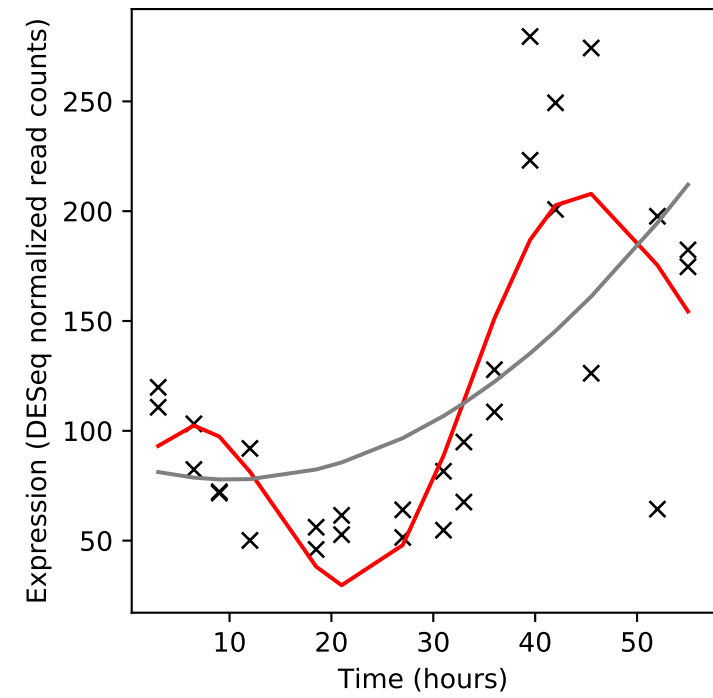
Rv1400c/lipl



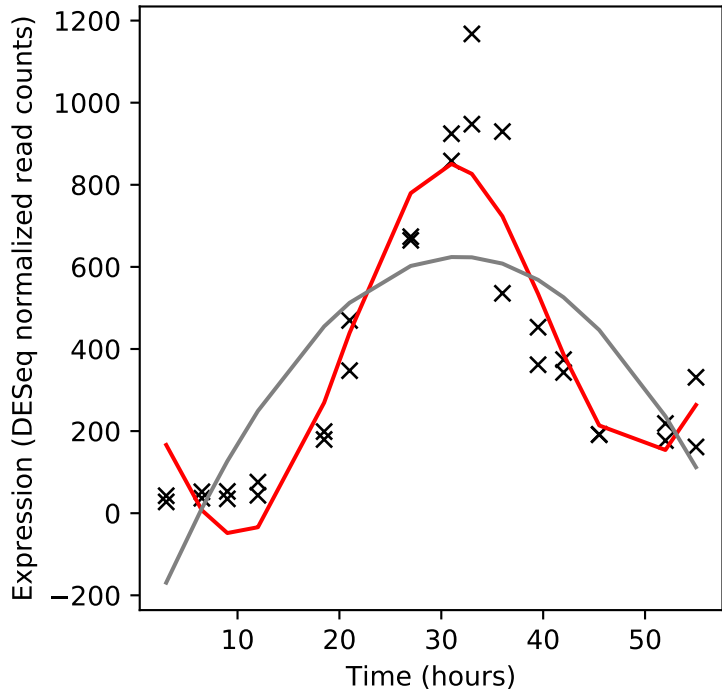
Rv1401/-



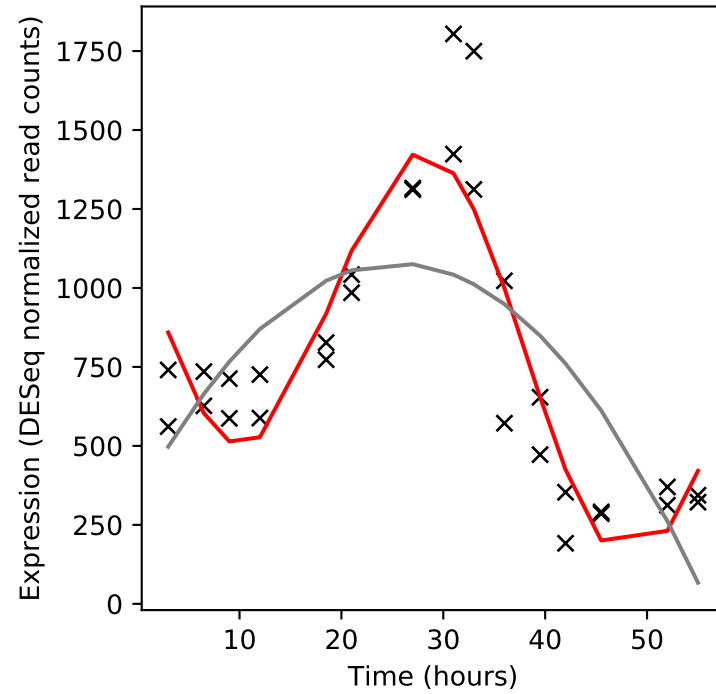
Rv1402/priA



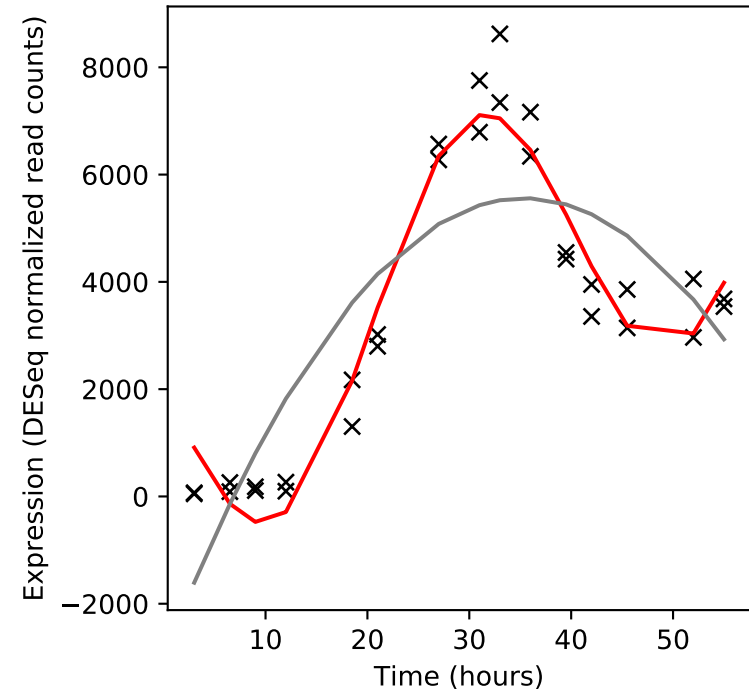
Rv1403c/-



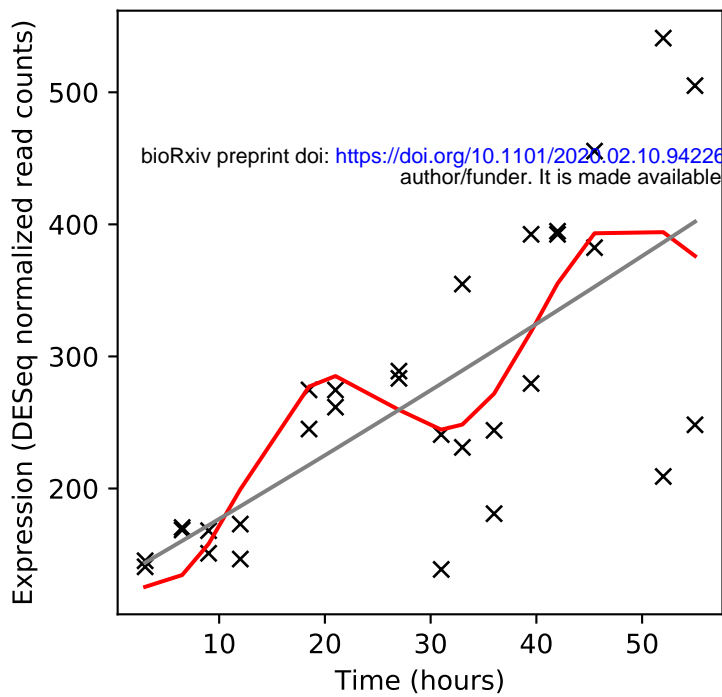
Rv1404/-



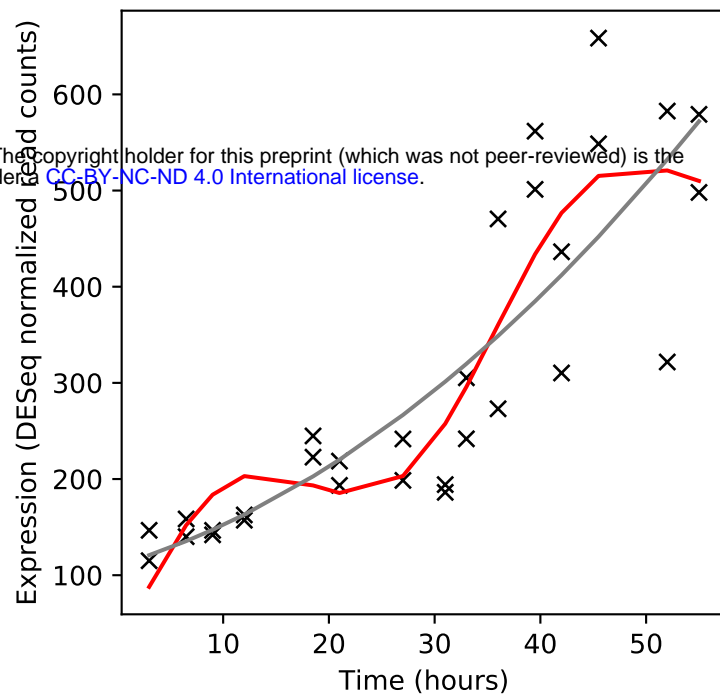
Rv1405c/-



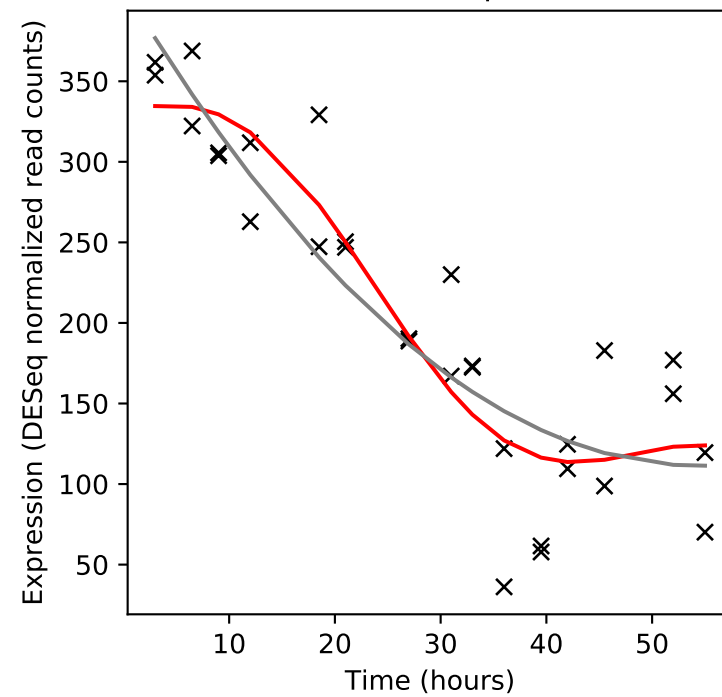
Rv1406/fmt



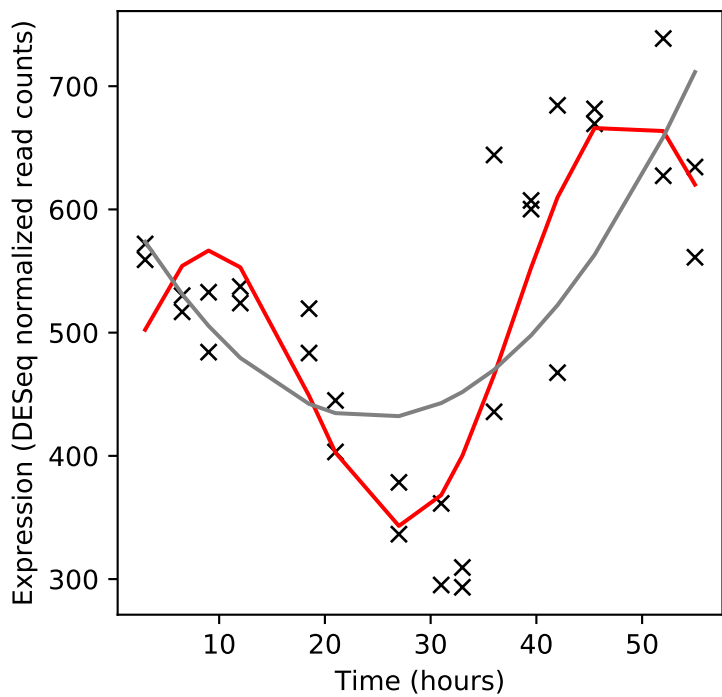
Rv1407/fmu



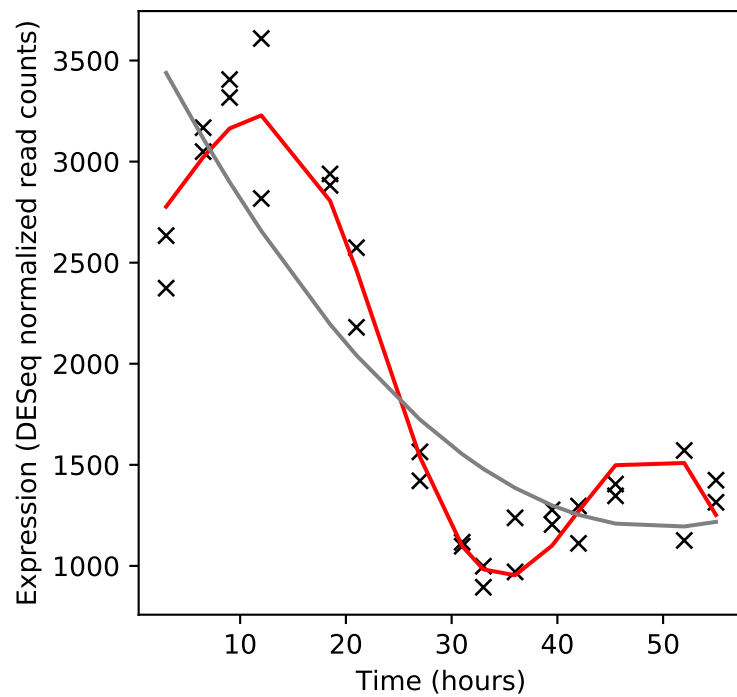
Rv1408/rpe



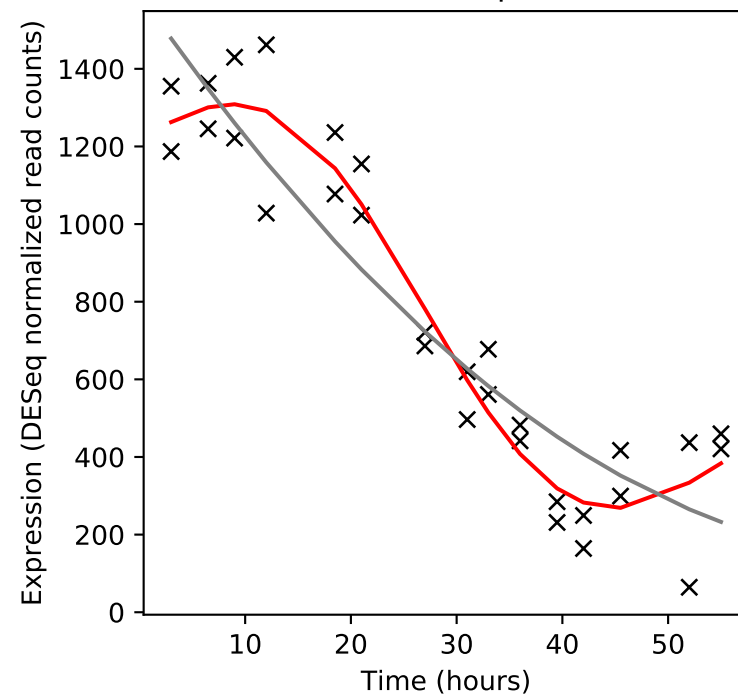
Rv1409/ribG



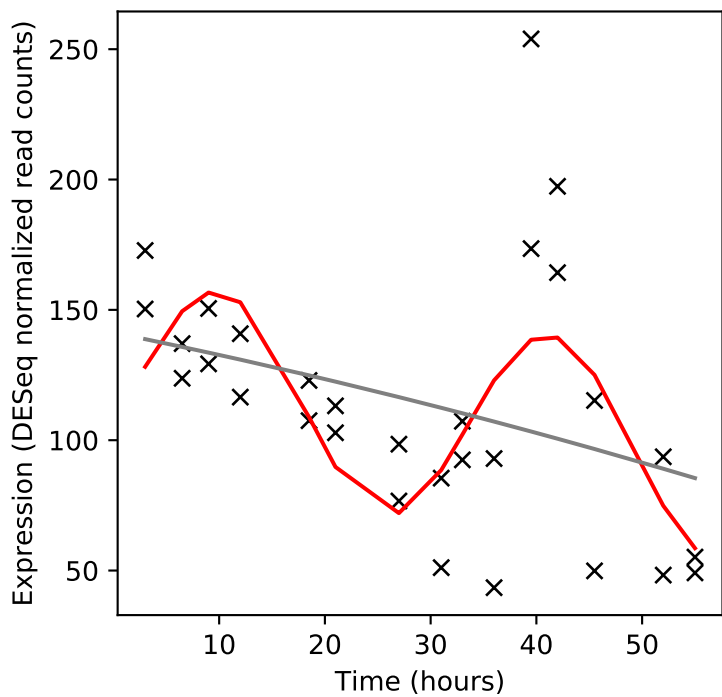
Rv1410c/-



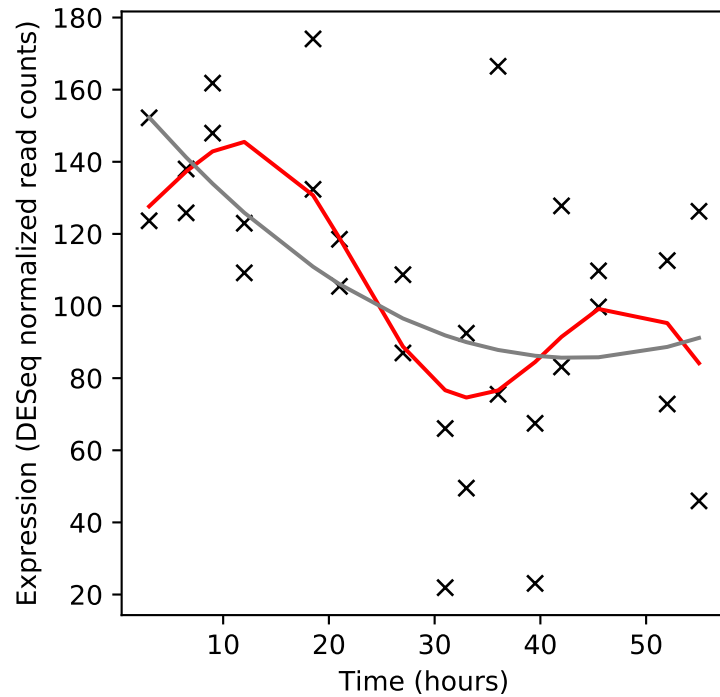
Rv1411c/lprG



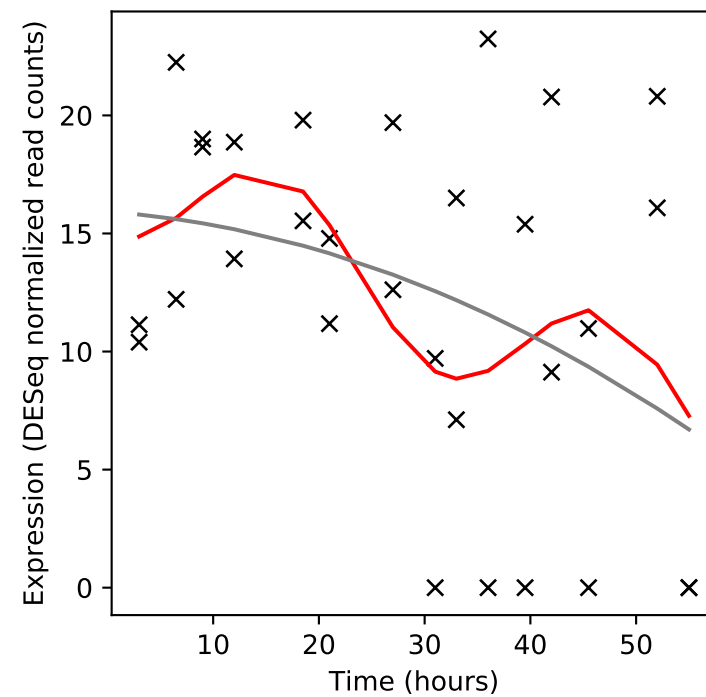
Rv1412/ribC



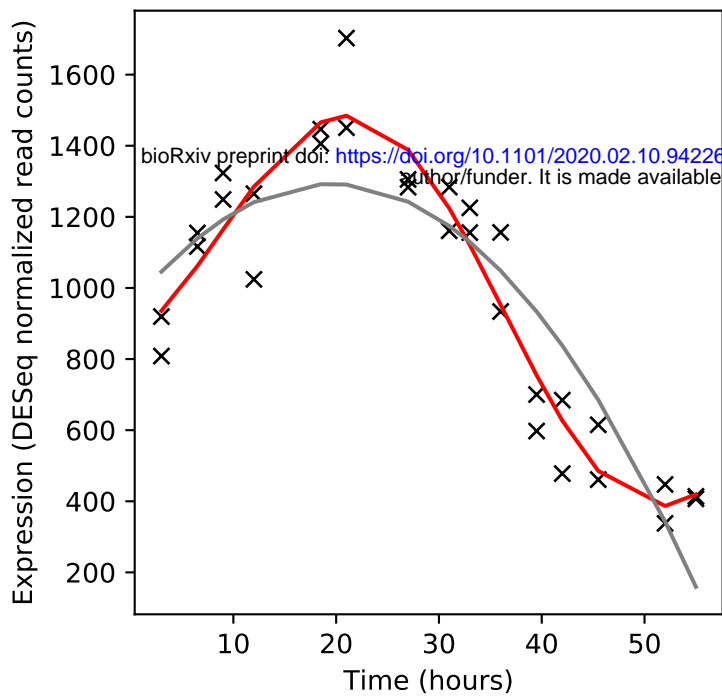
Rv1413/-



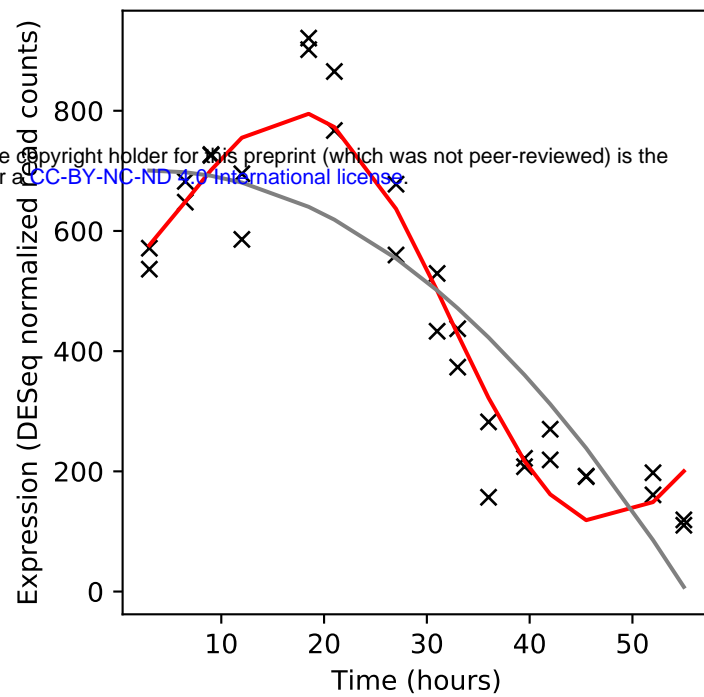
Rv1414/-



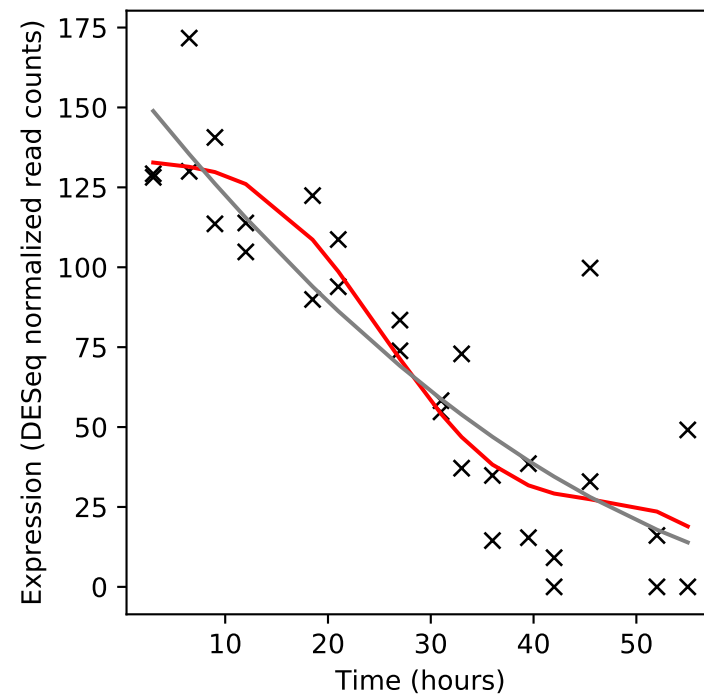
Rv1415/ribA2



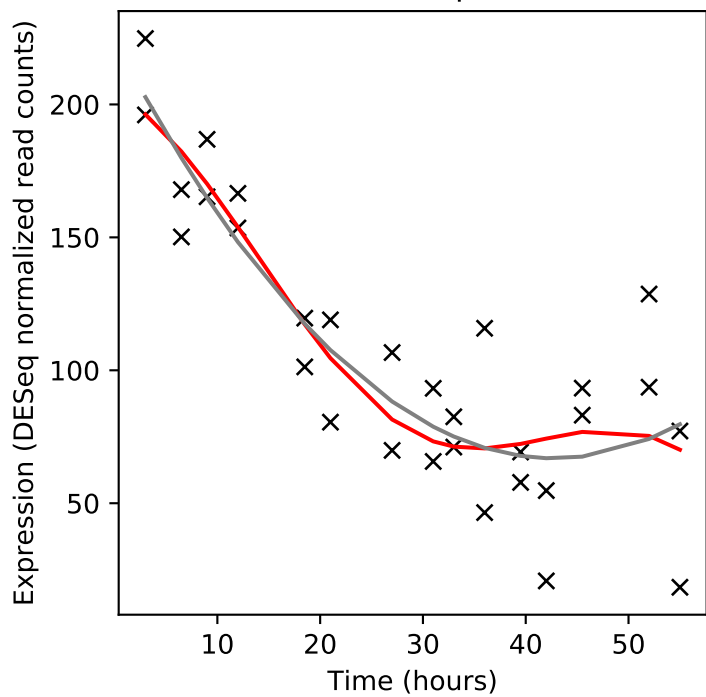
Rv1416/ribH



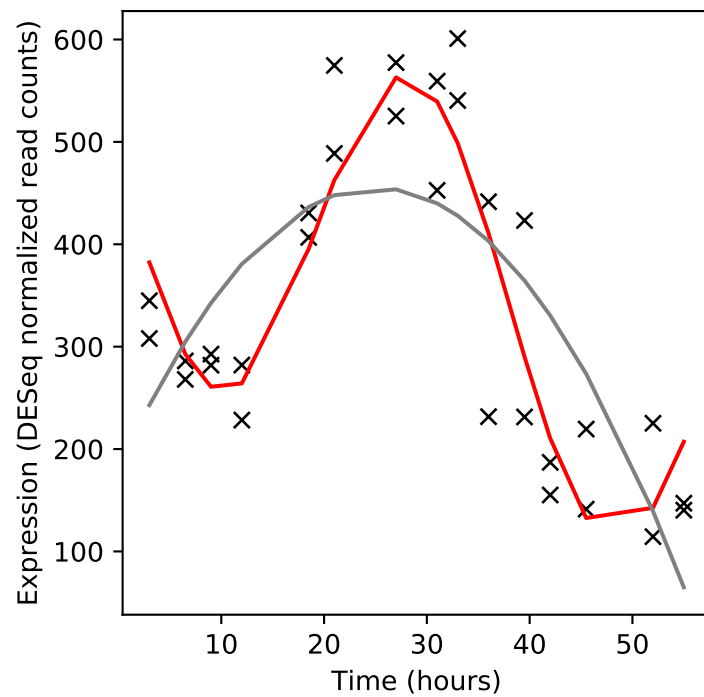
Rv1417/-



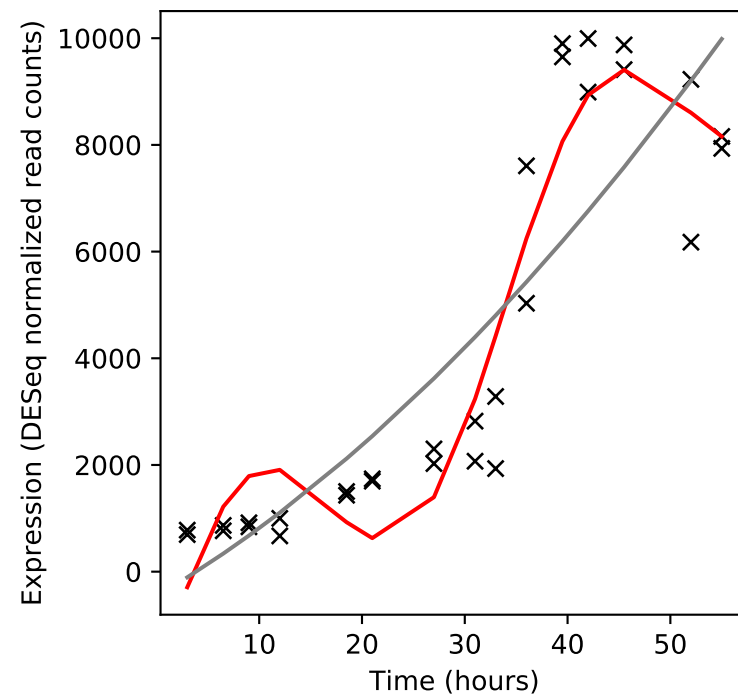
Rv1418/lprH



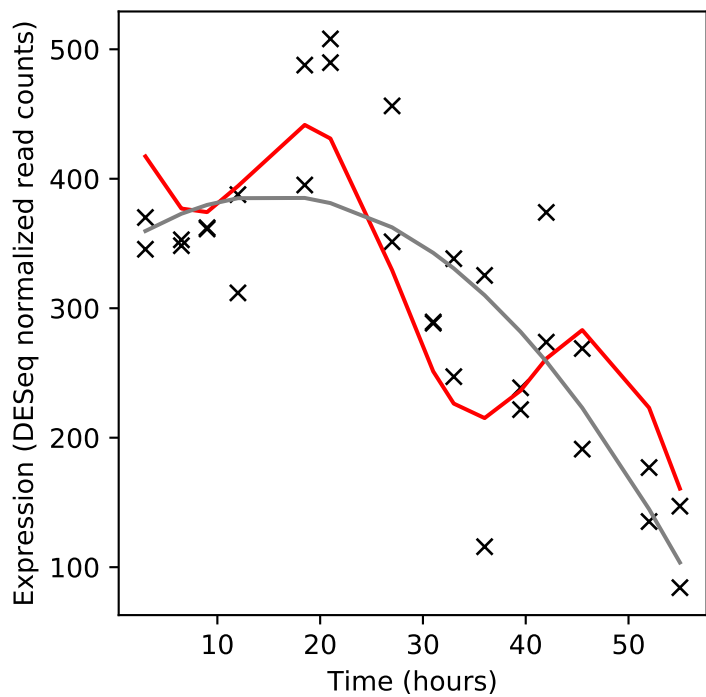
Rv1419/-



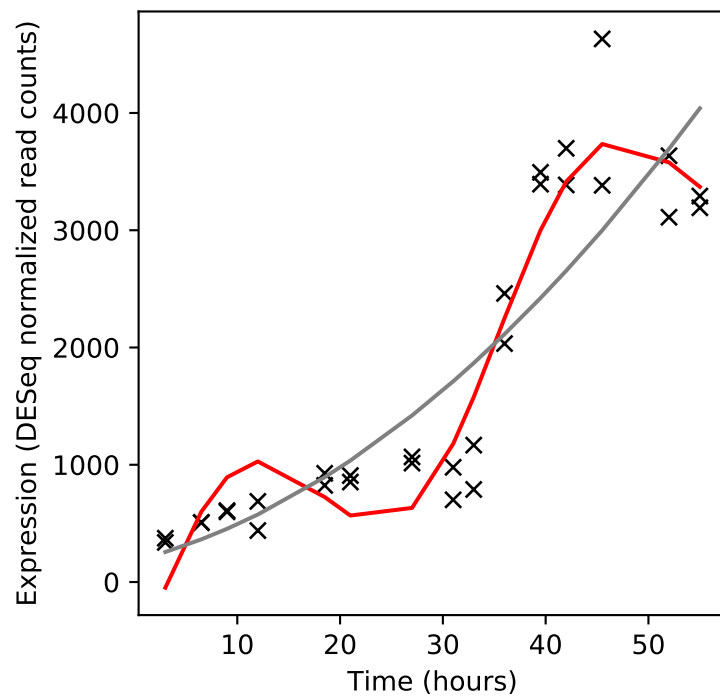
Rv1420/uvrC



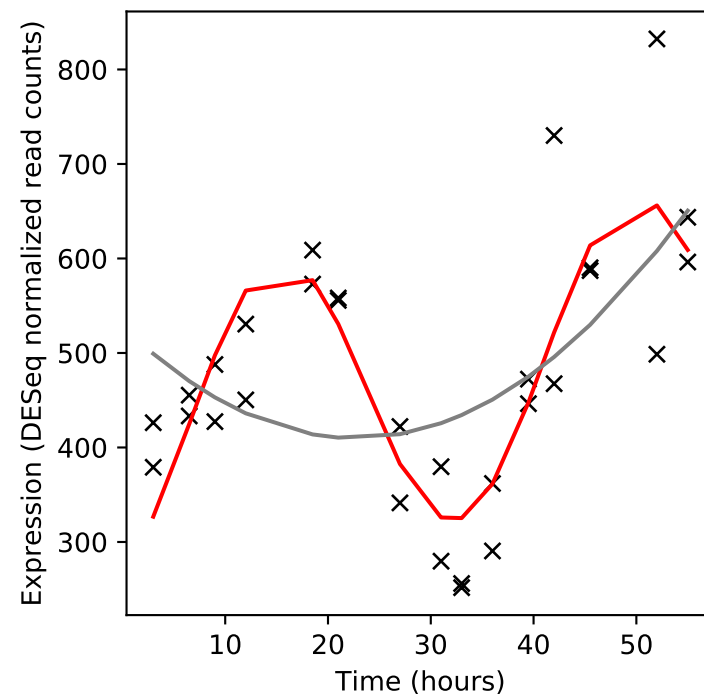
Rv1421/-



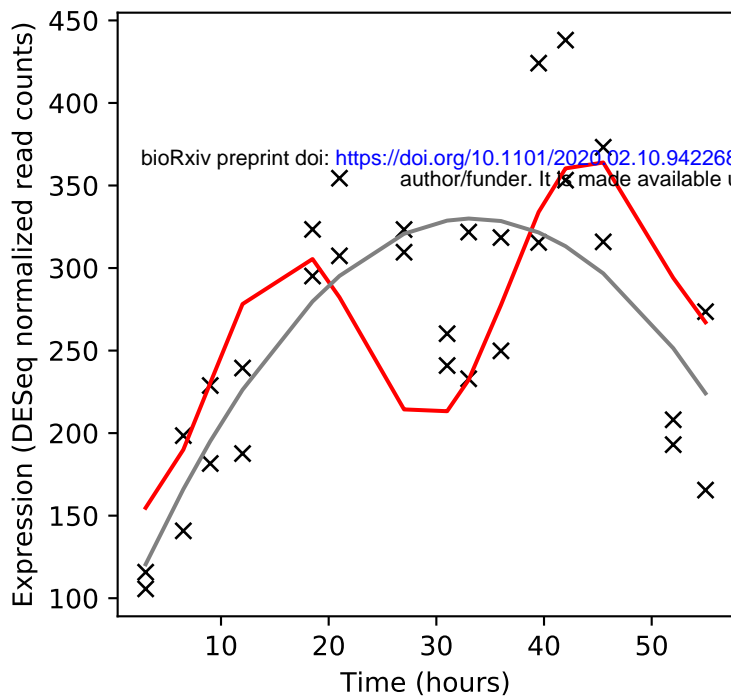
Rv1422/-



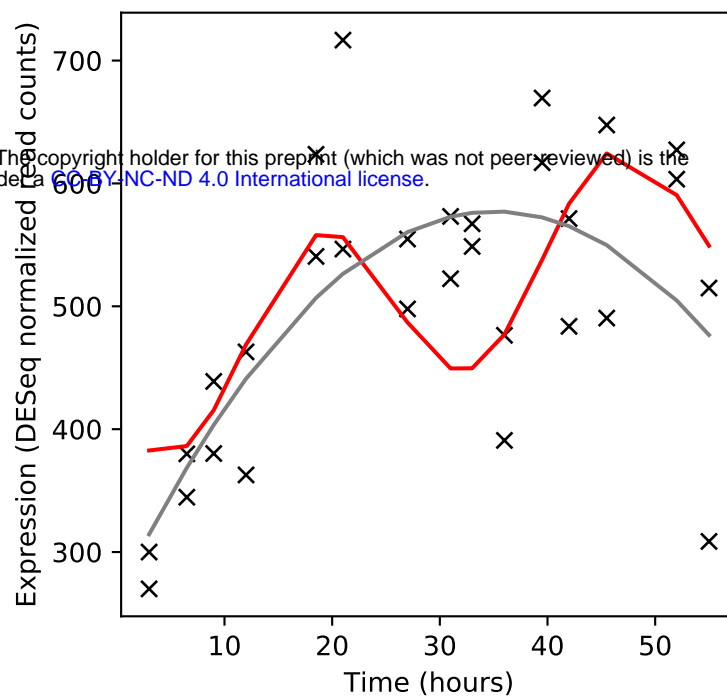
Rv1423/whiA



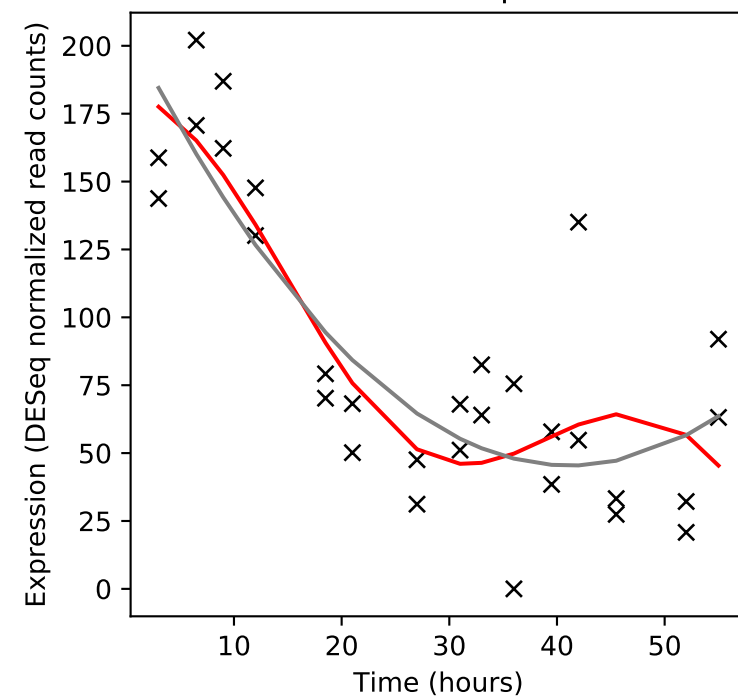
Rv1424c/-



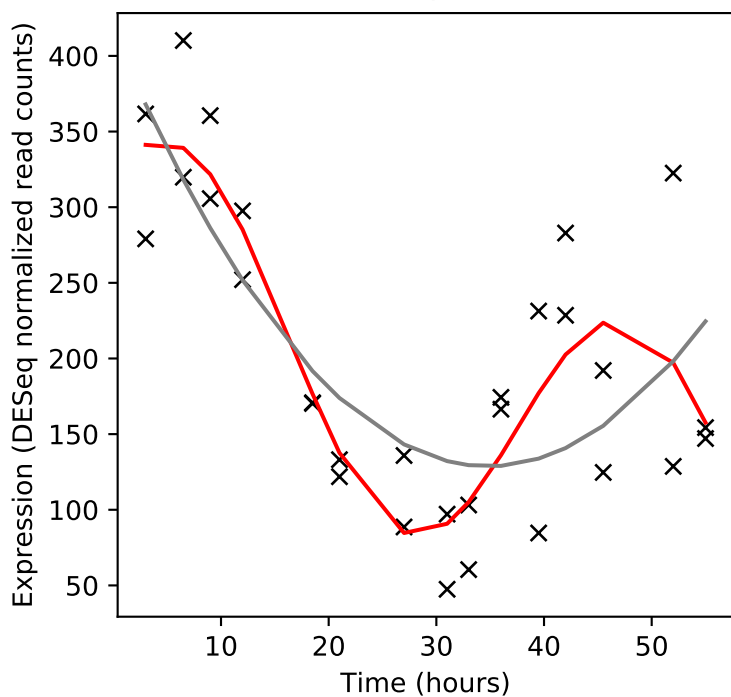
Rv1425/-



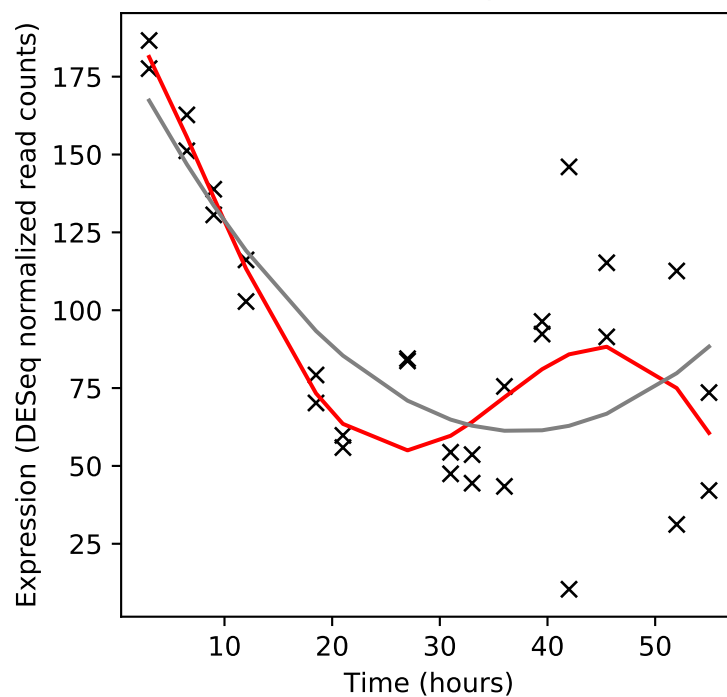
Rv1426c/lipO



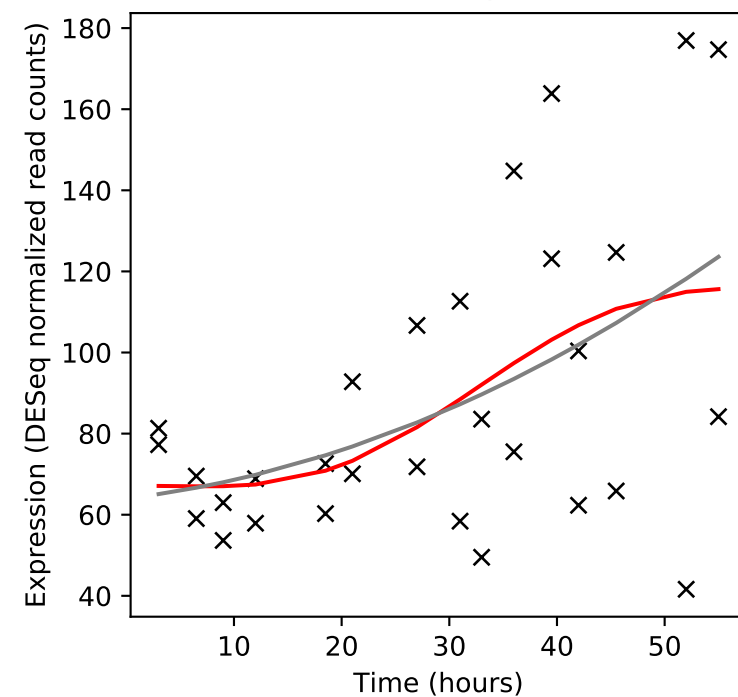
Rv1427c/fadD12



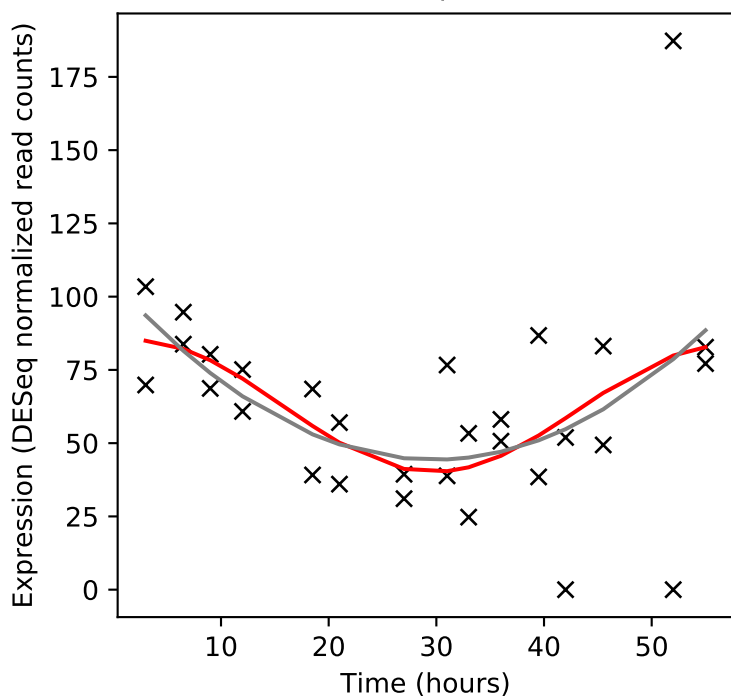
Rv1428c/-



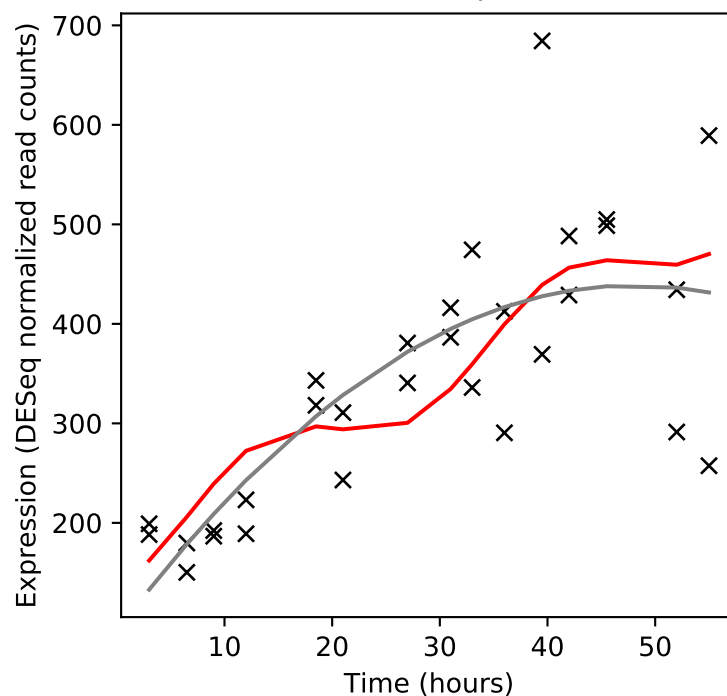
Rv1429/-



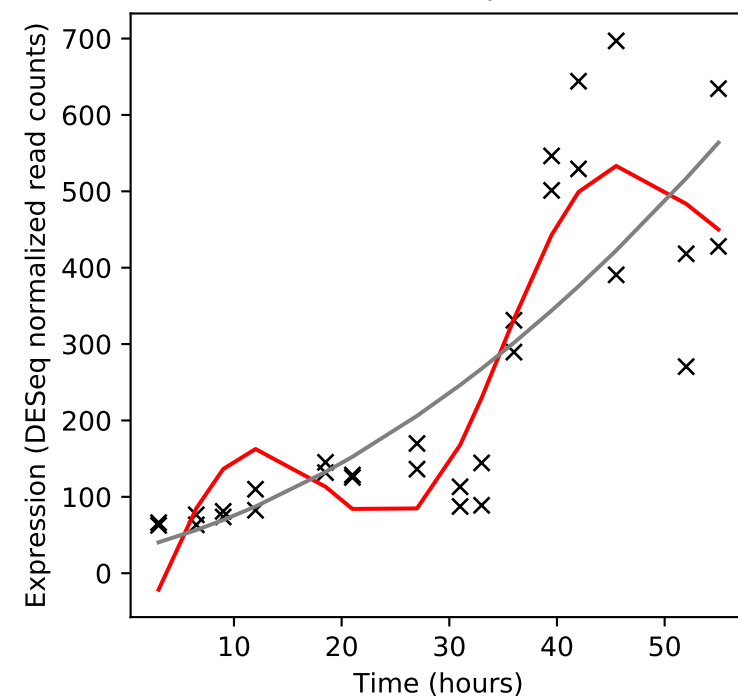
Rv1430/PE16



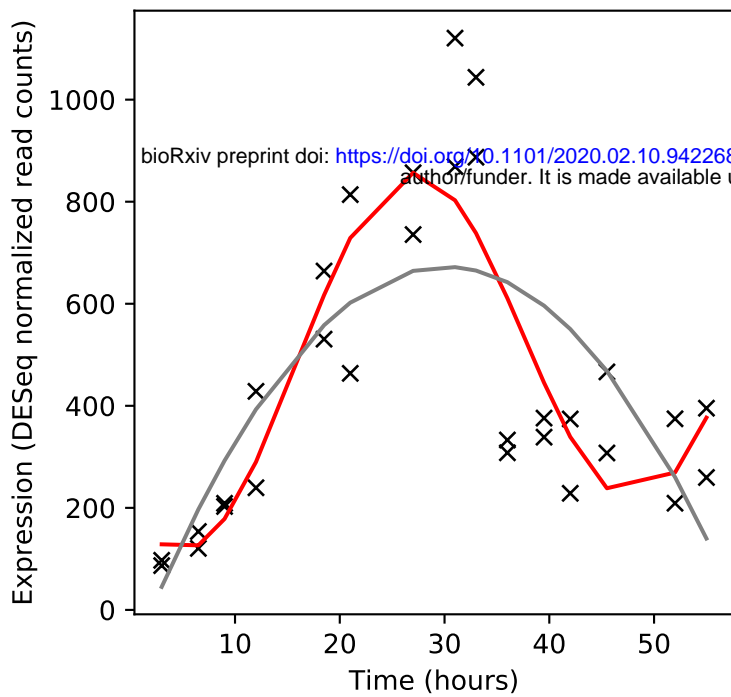
Rv1431/-



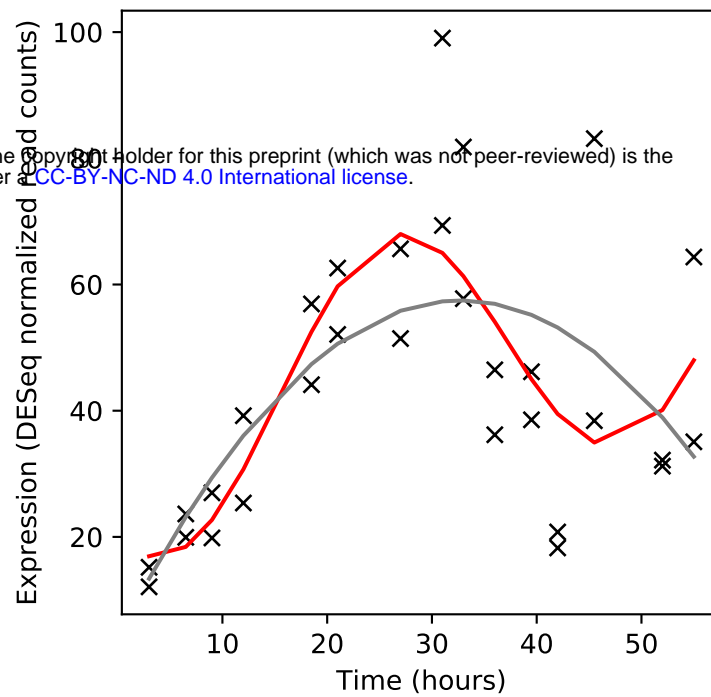
Rv1432/-



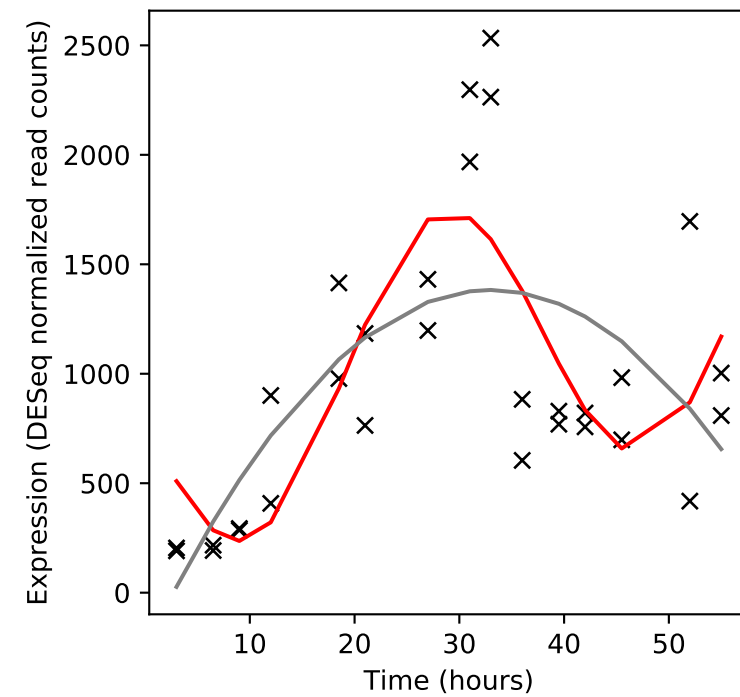
Rv1433/-



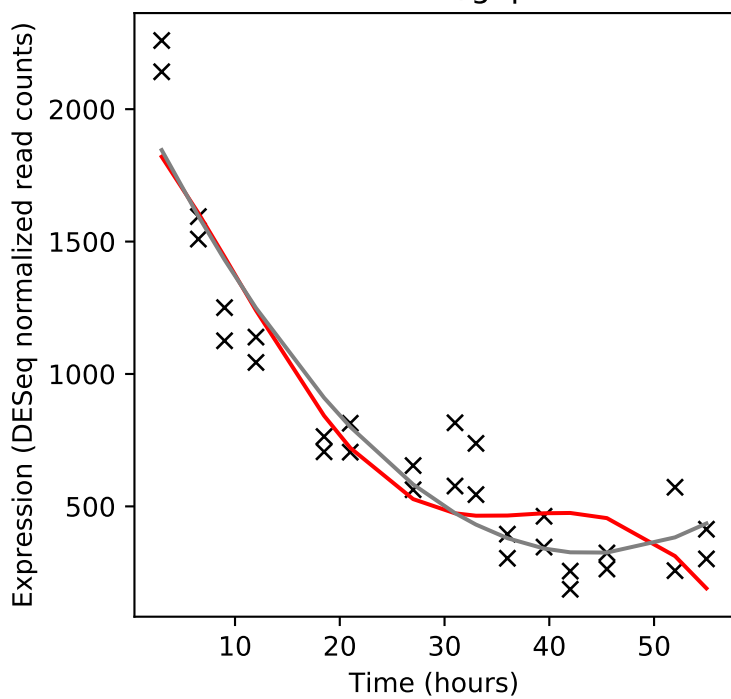
Rv1434/-



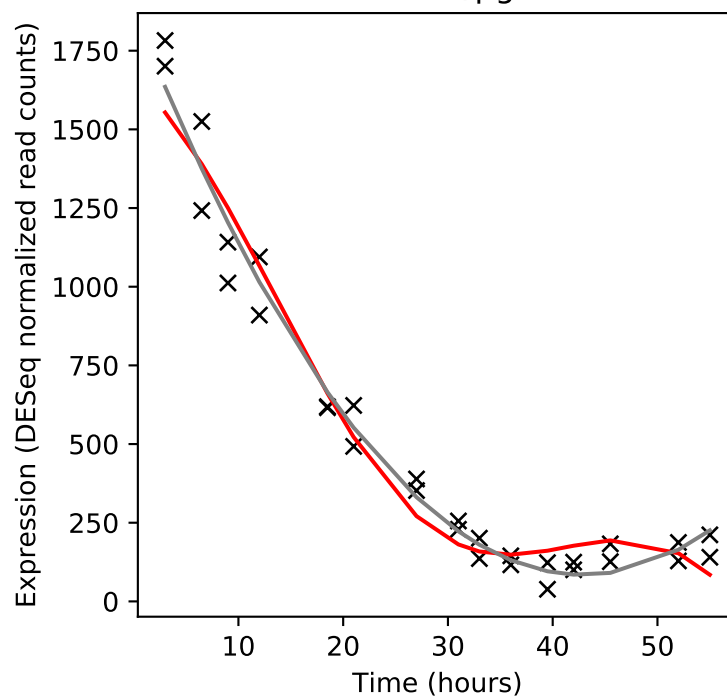
Rv1435c/-



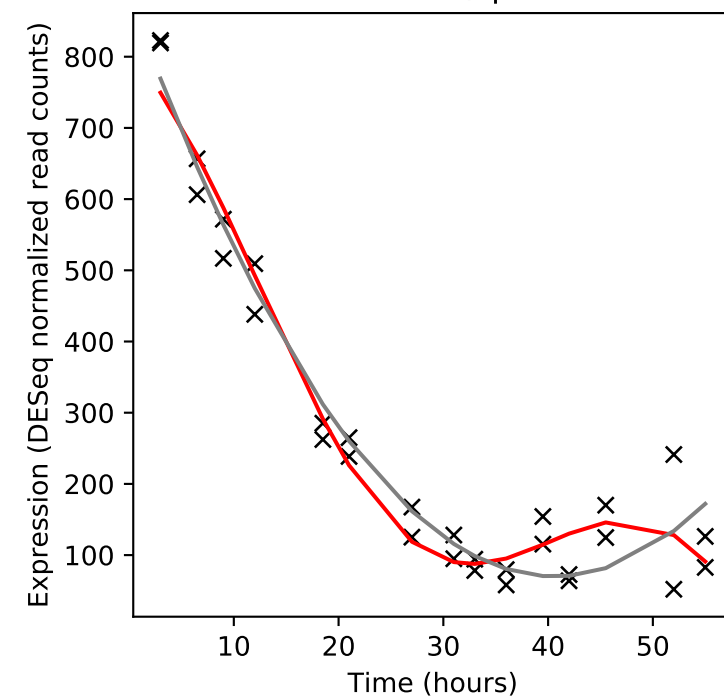
Rv1436/gap



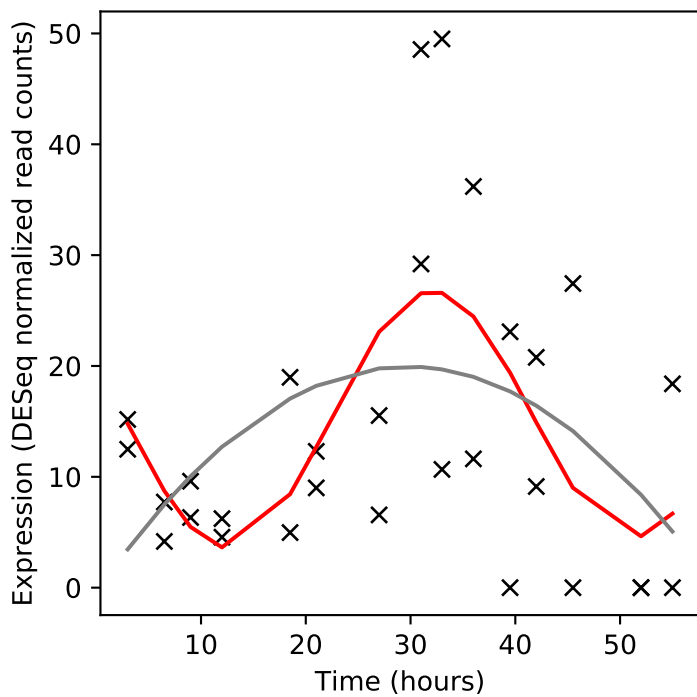
Rv1437/pgk



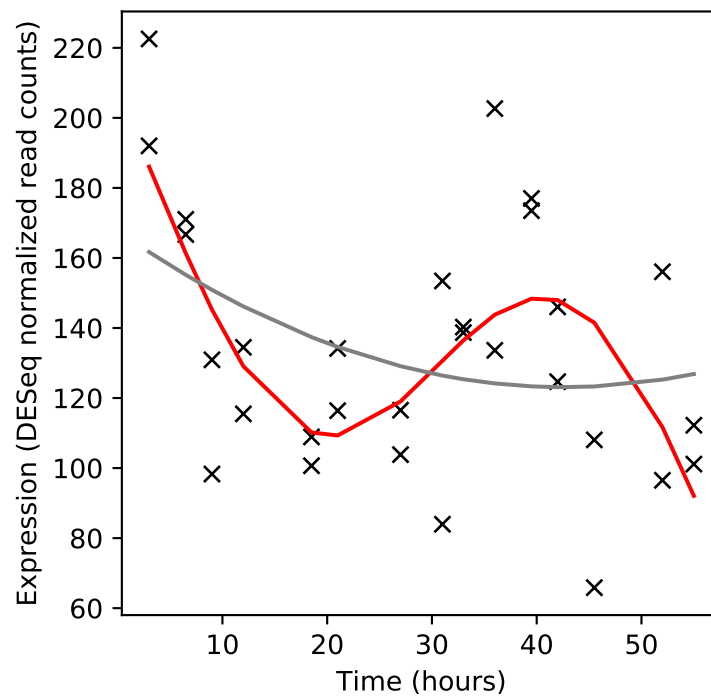
Rv1438/tpi



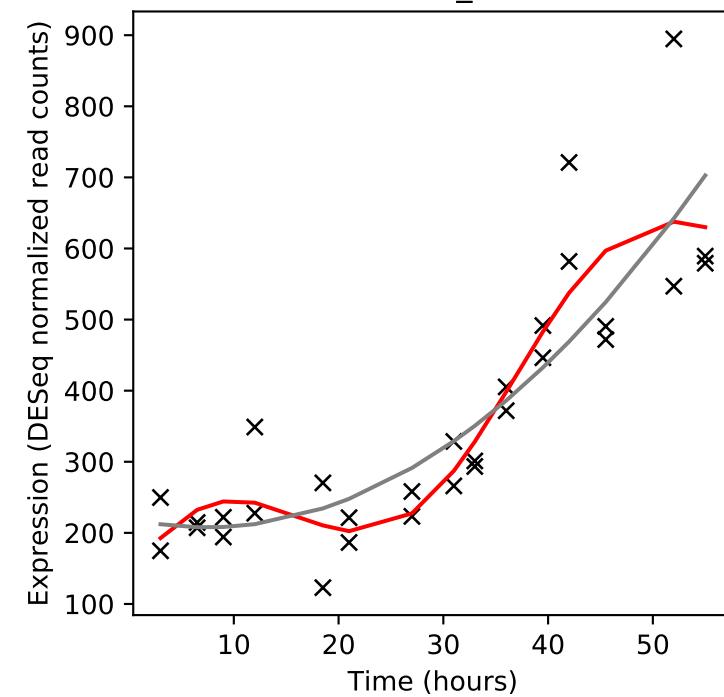
Rv1439c/-



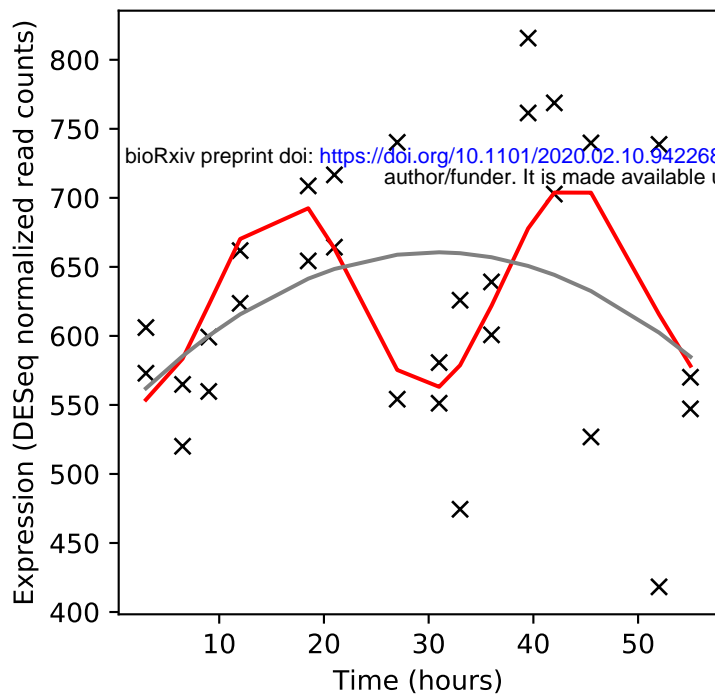
Rv1440/secG



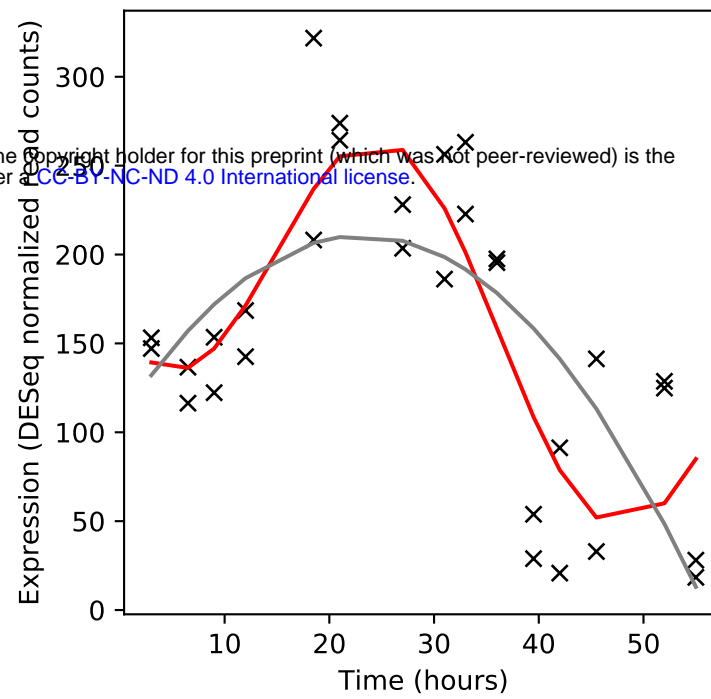
Rv1441c/PE_PGRS26



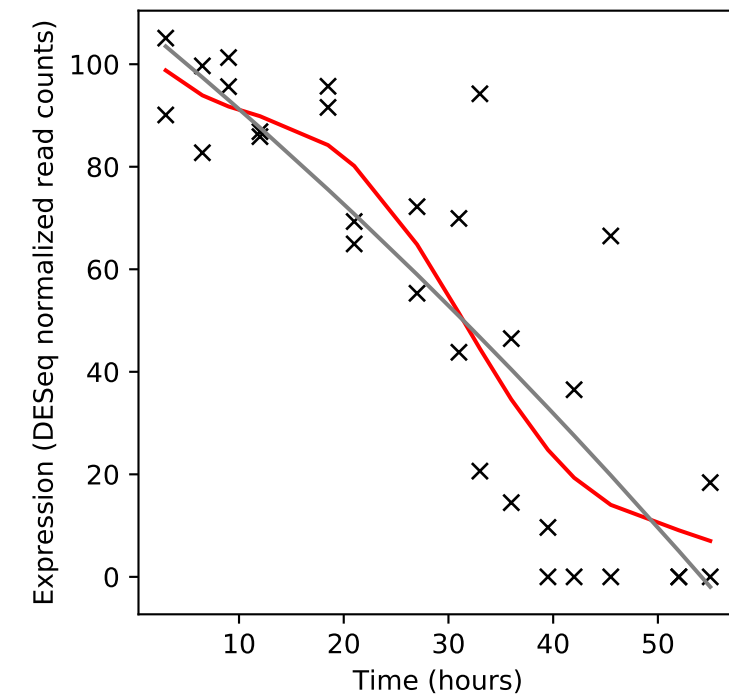
Rv1442/bisC



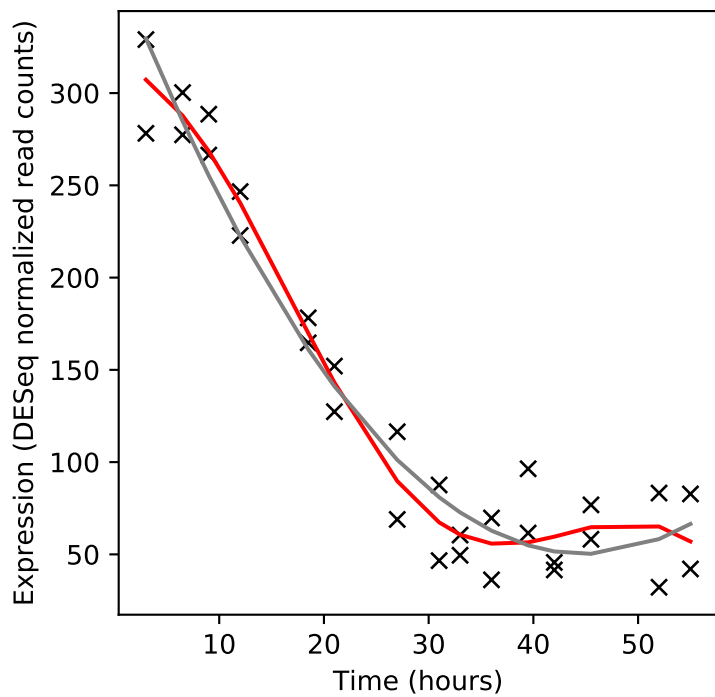
Rv1443c/-



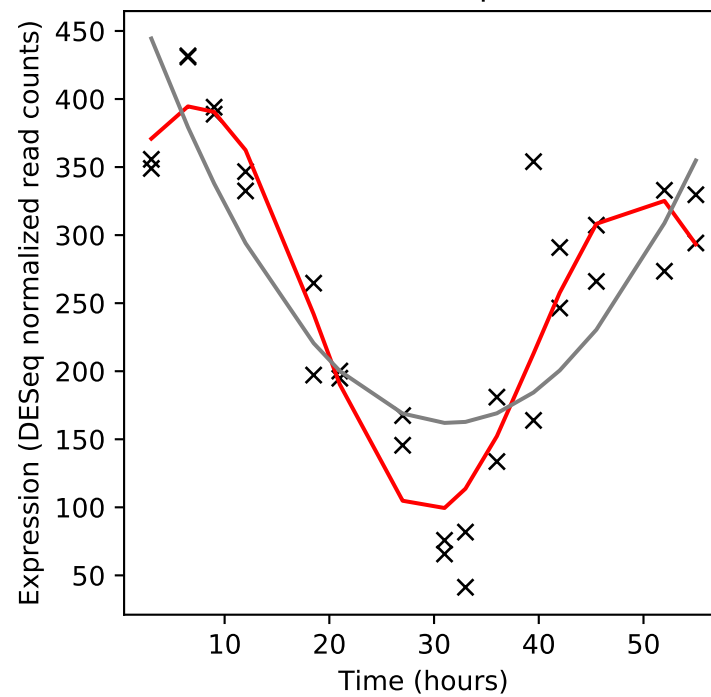
Rv1444c/-



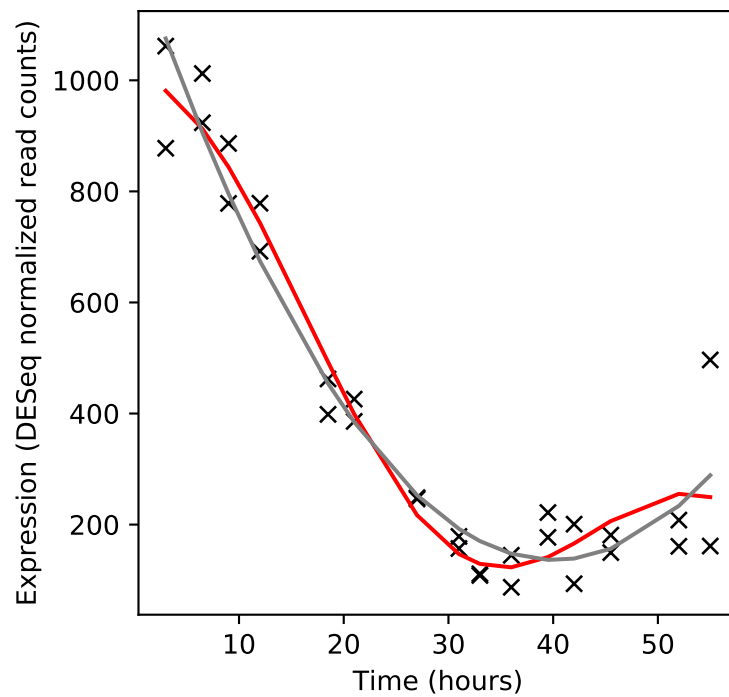
Rv1445c/devB



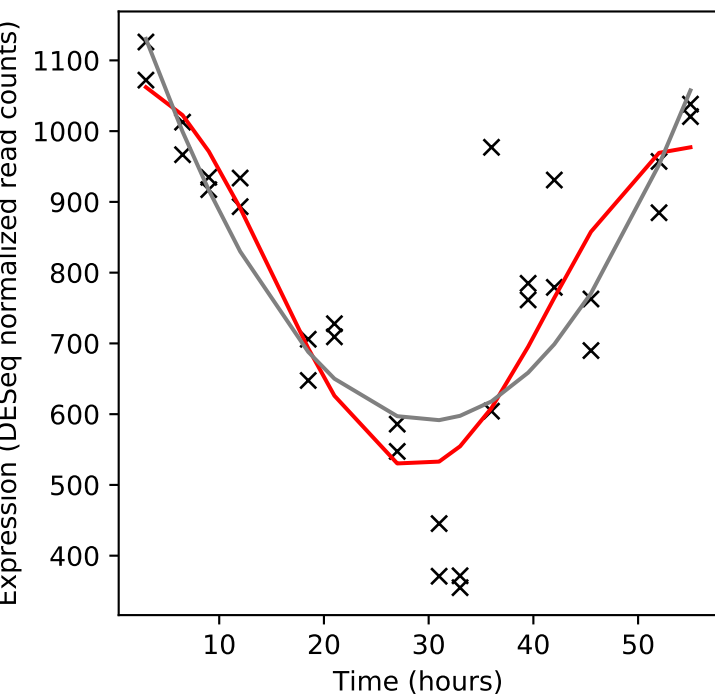
Rv1446c/opcA



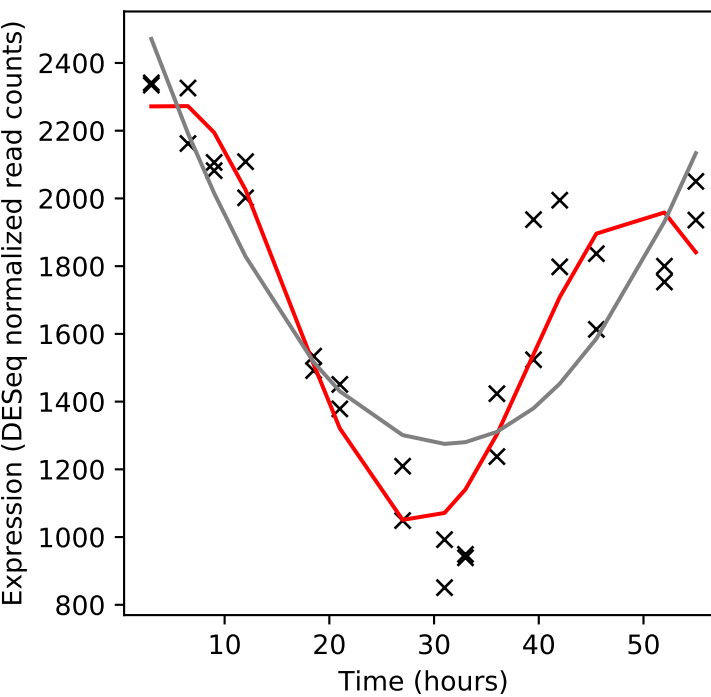
Rv1447c/zwf2



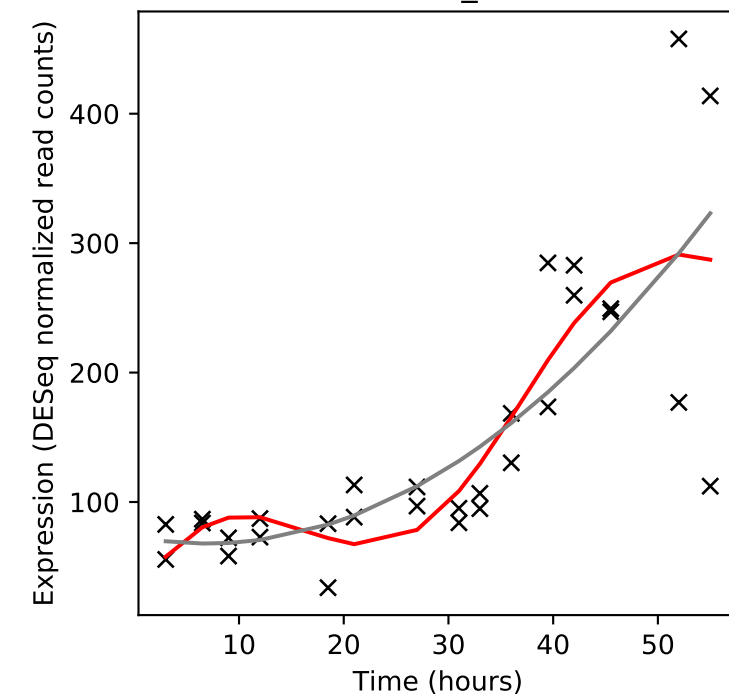
Rv1448c/tal



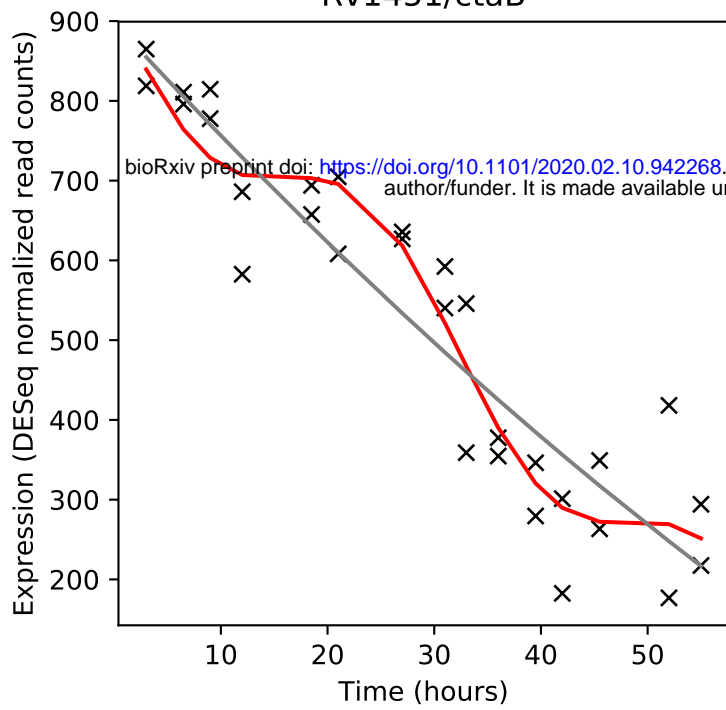
Rv1449c/tkt



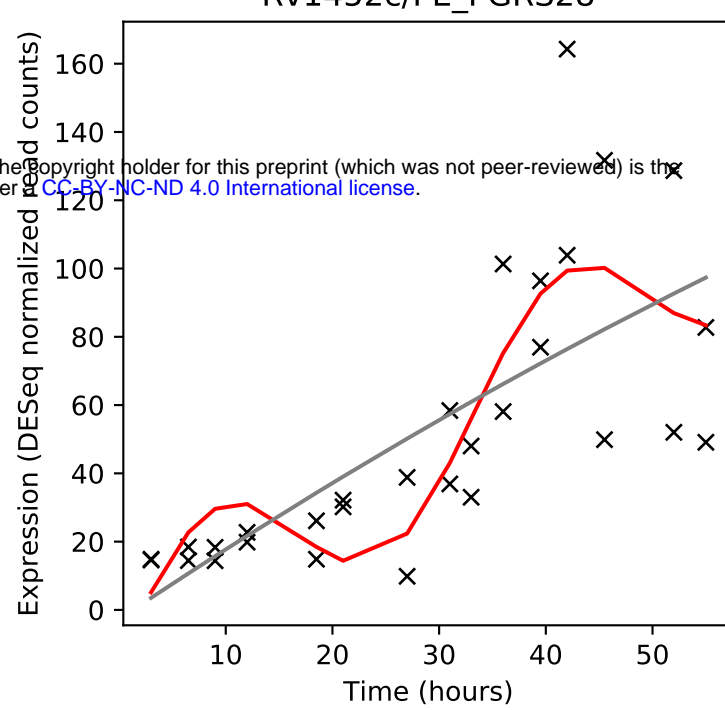
Rv1450c/PE_PGRS27



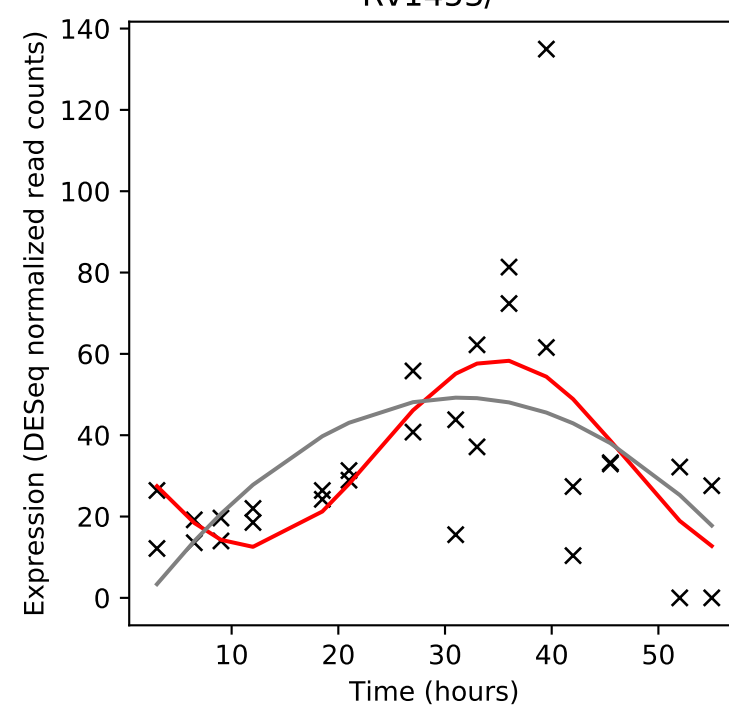
Rv1451/ctaB



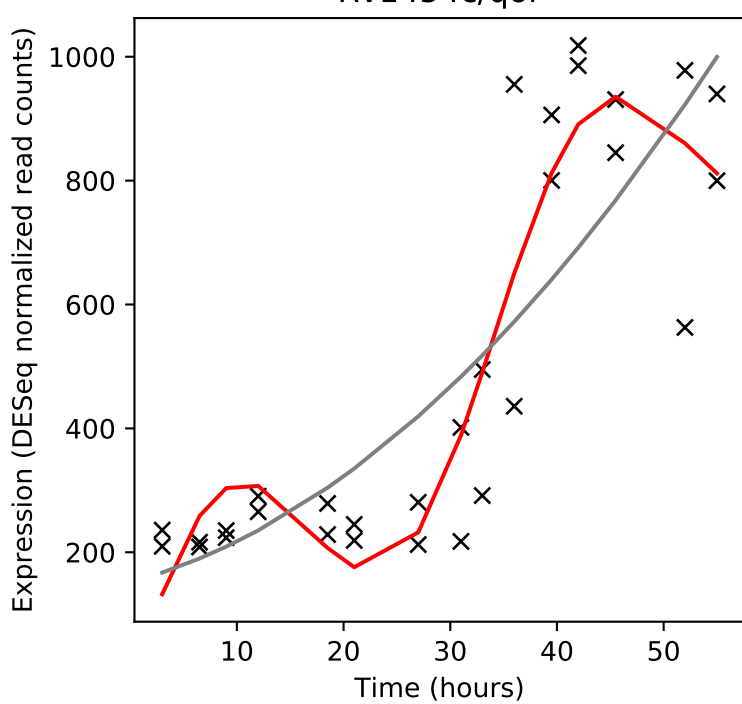
Rv1452c/PE_PGRS28



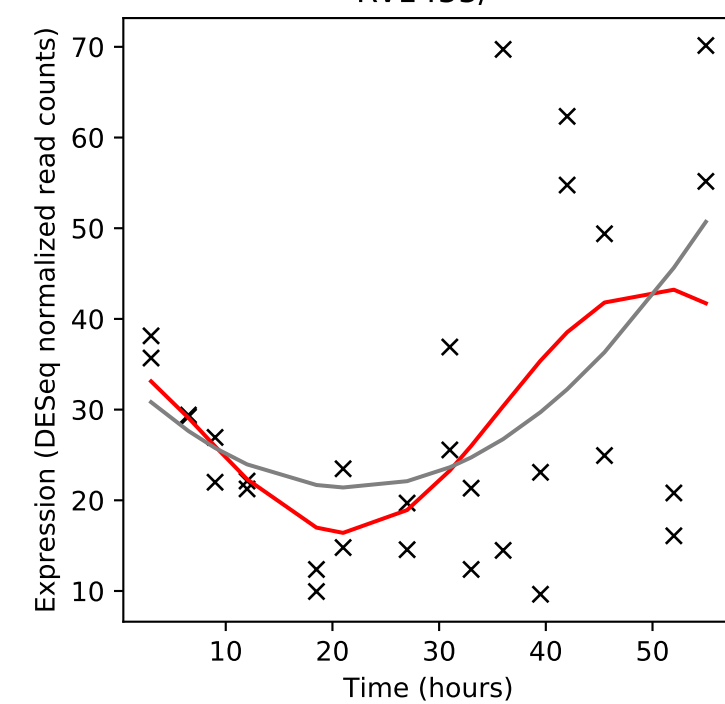
Rv1453/-



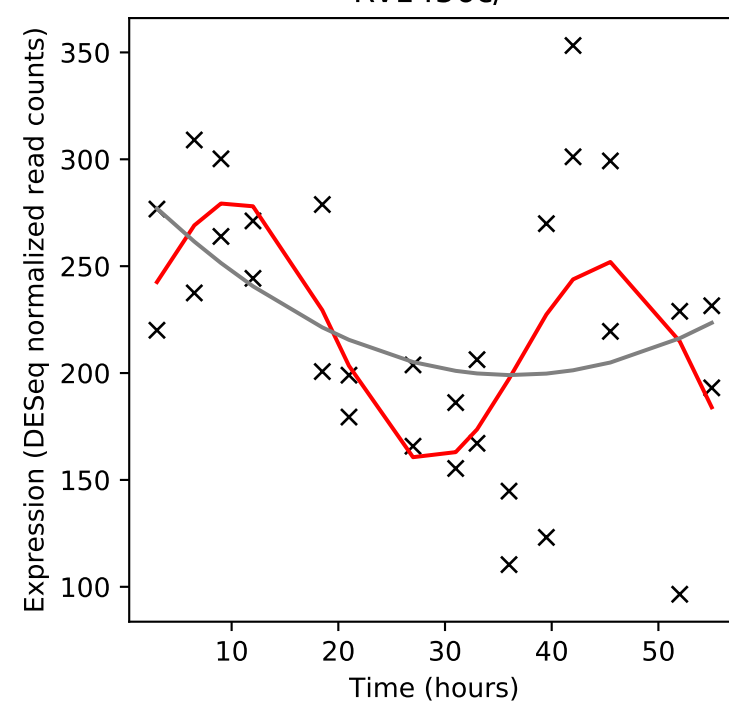
Rv1454c/qor



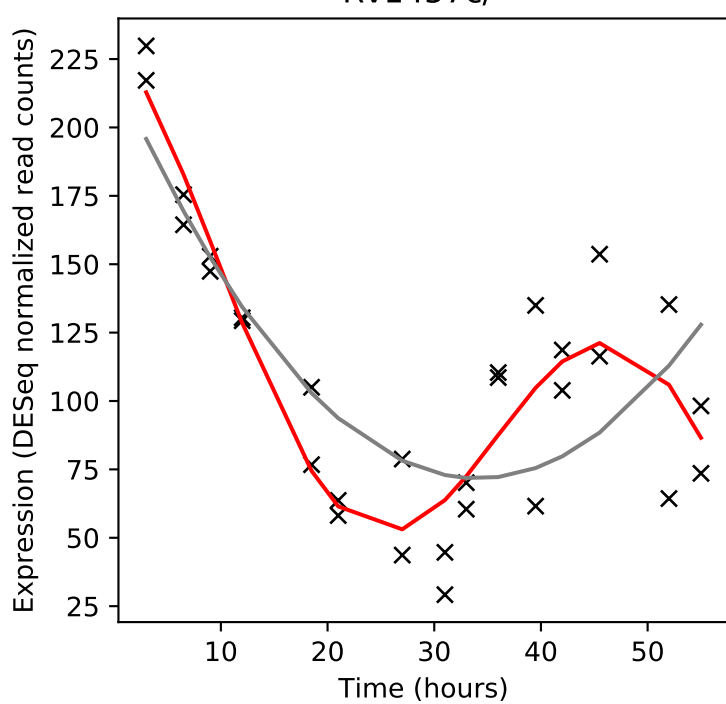
Rv1455/-



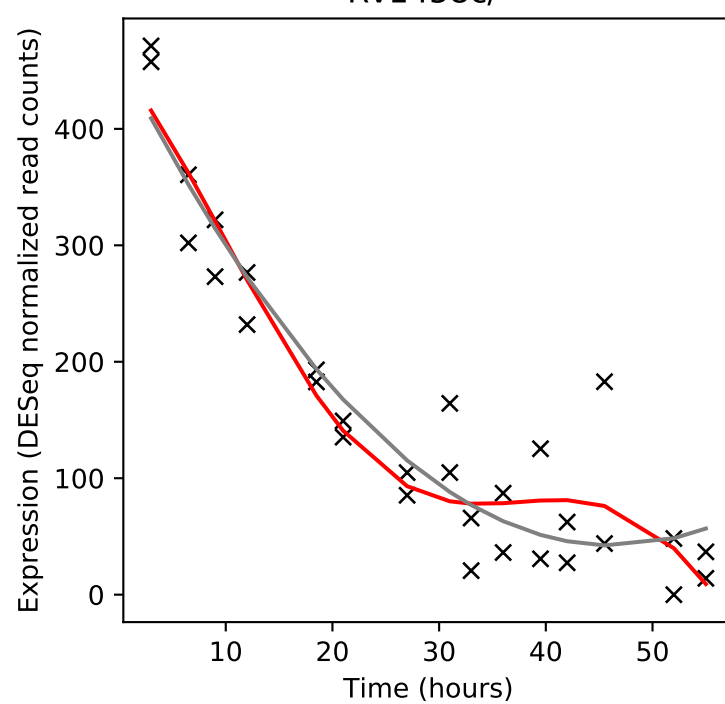
Rv1456c/-



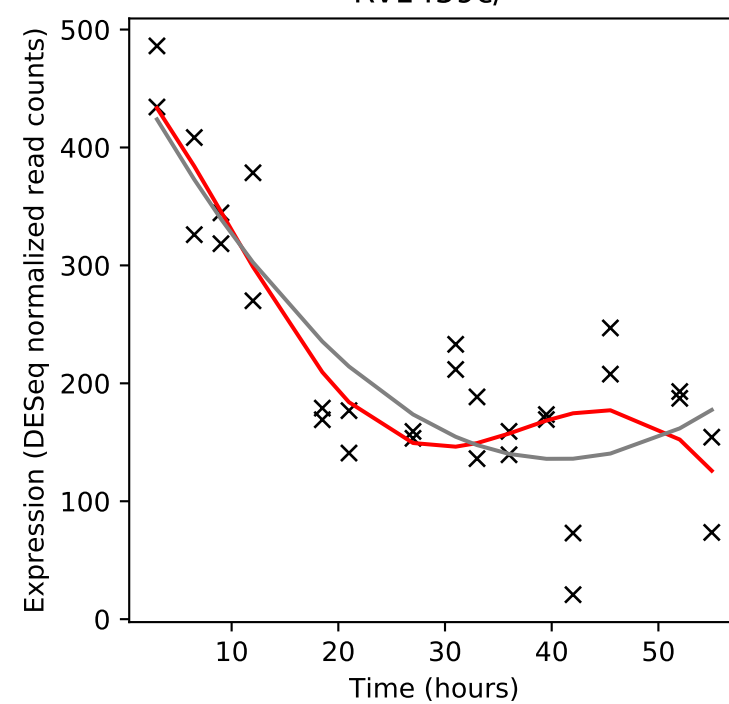
Rv1457c/-



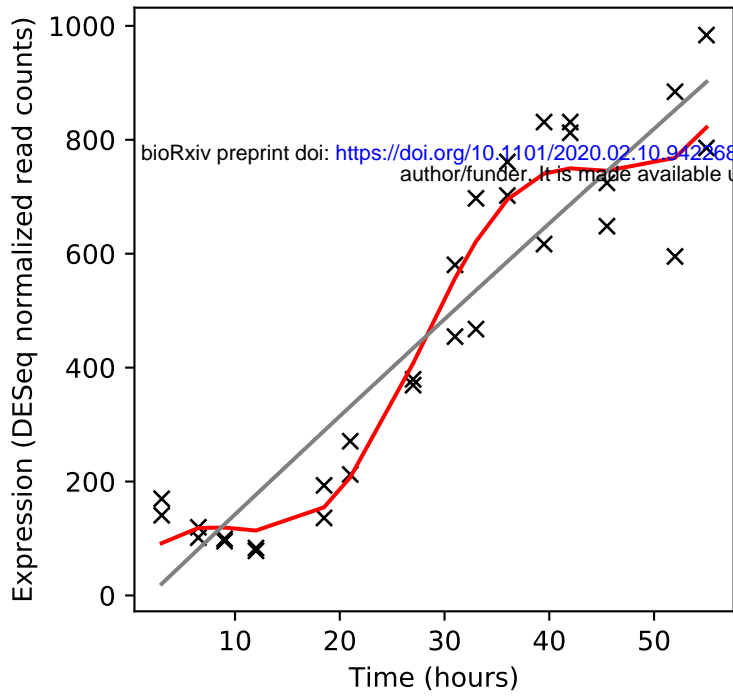
Rv1458c/-



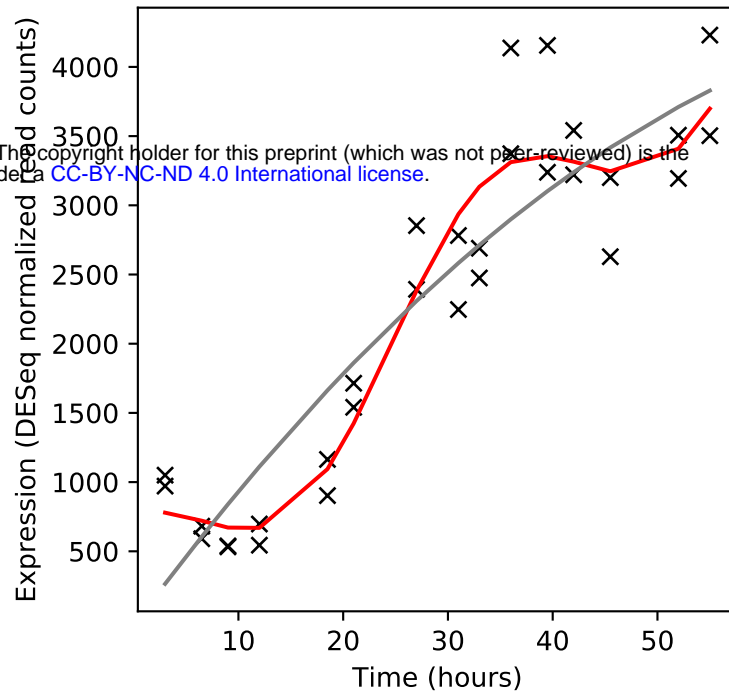
Rv1459c/-



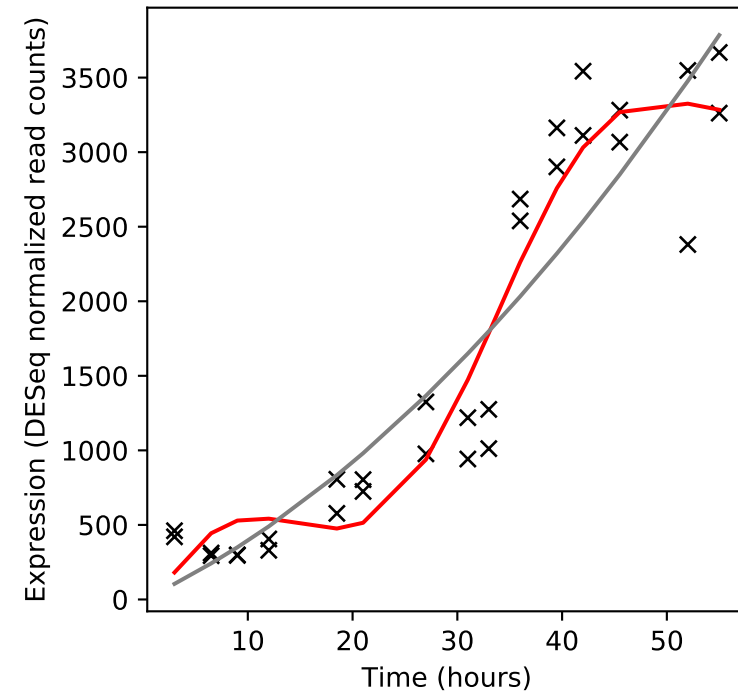
Rv1460/-



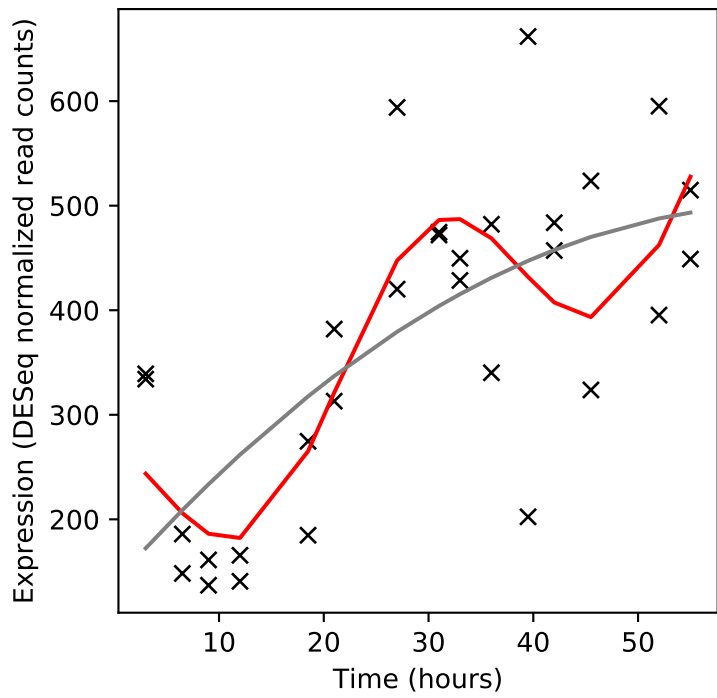
Rv1461/-



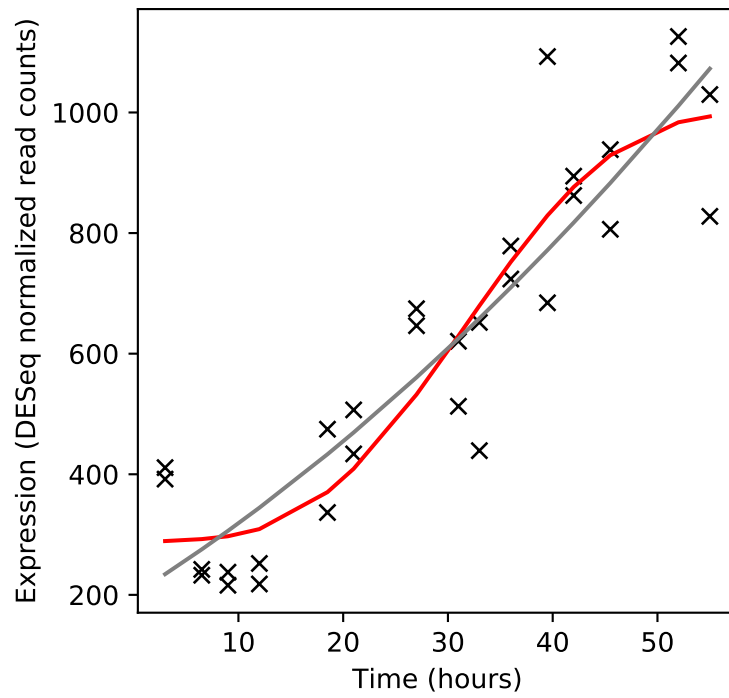
Rv1462/-



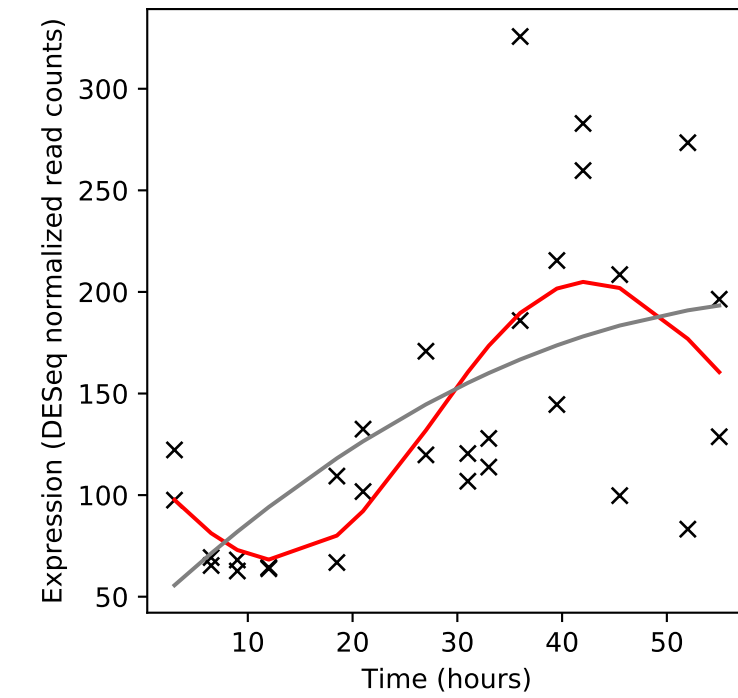
Rv1463/-



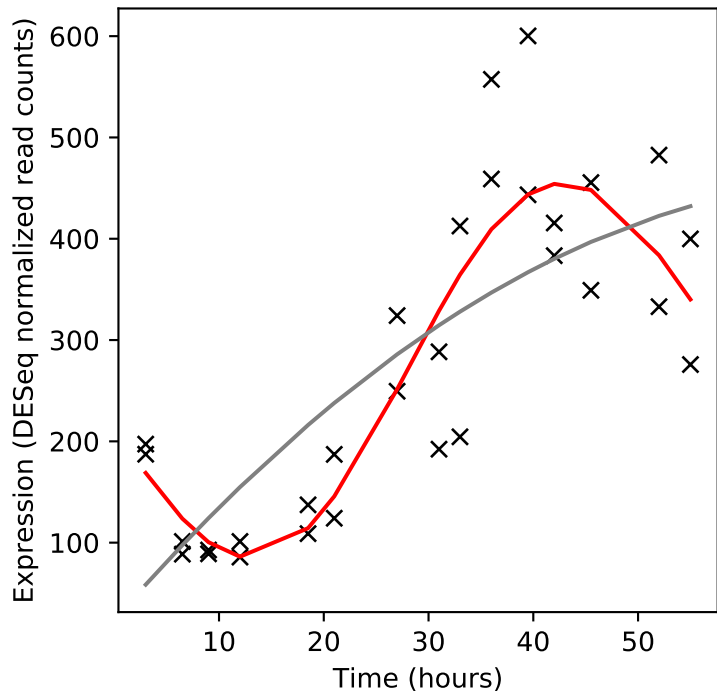
Rv1464/csd



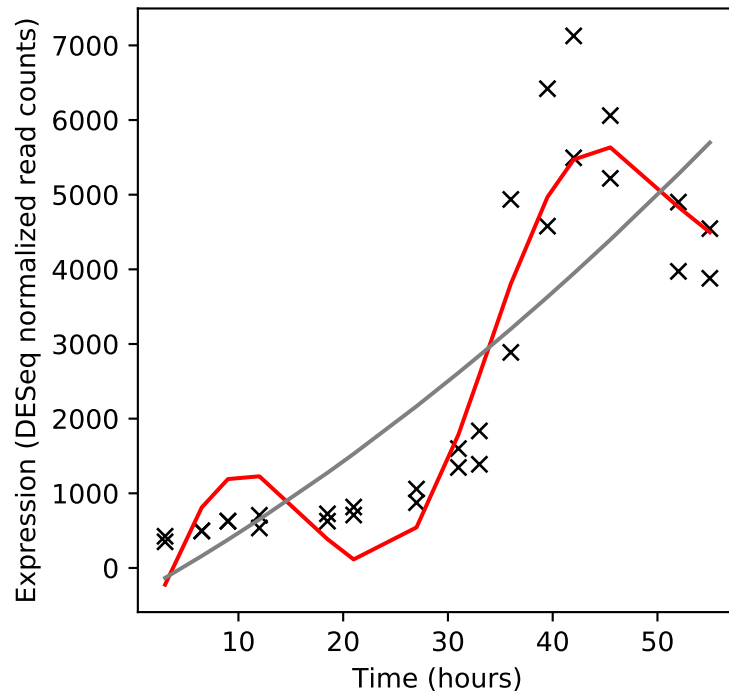
Rv1465/-



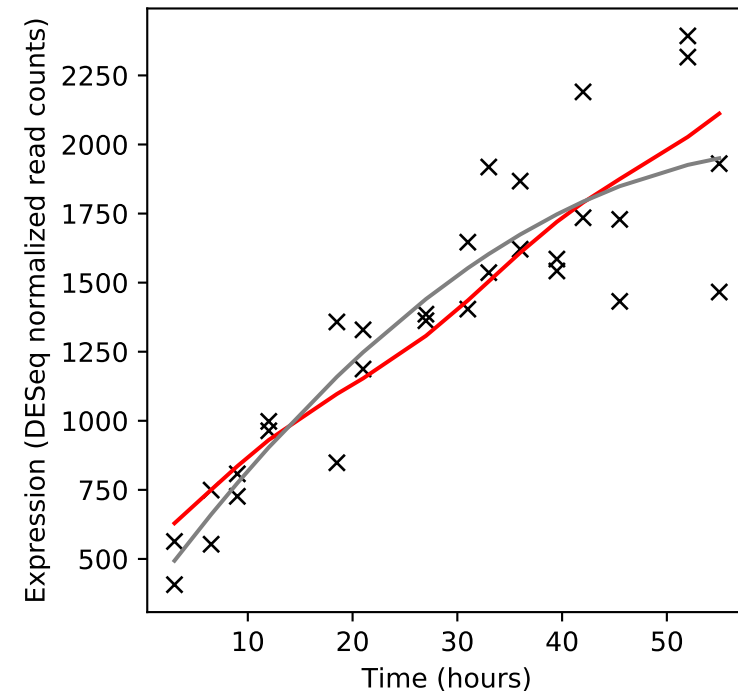
Rv1466/-



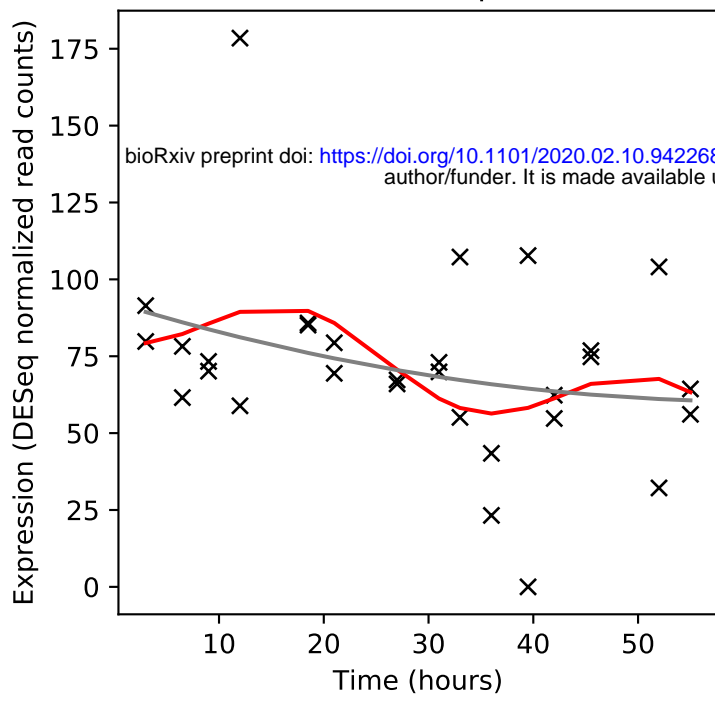
Rv1467c/fadE15



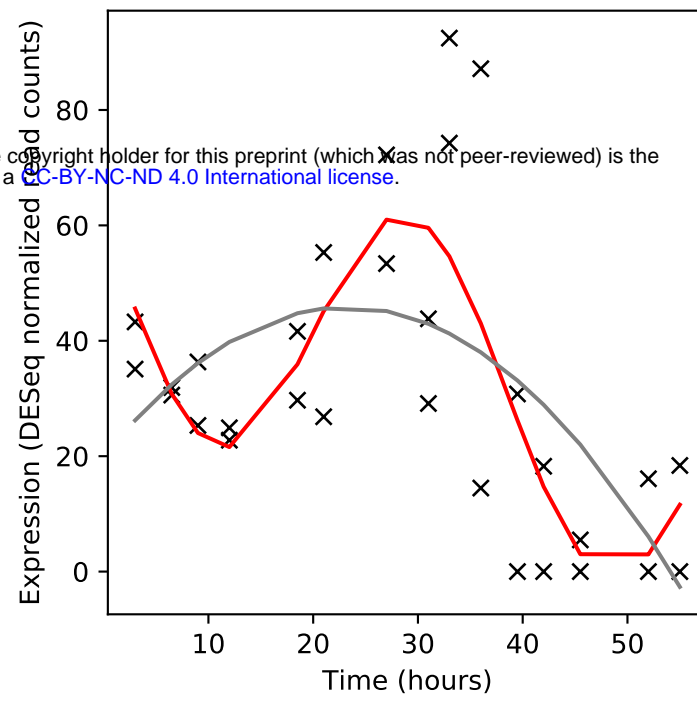
Rv1468c/PE_PGRS29



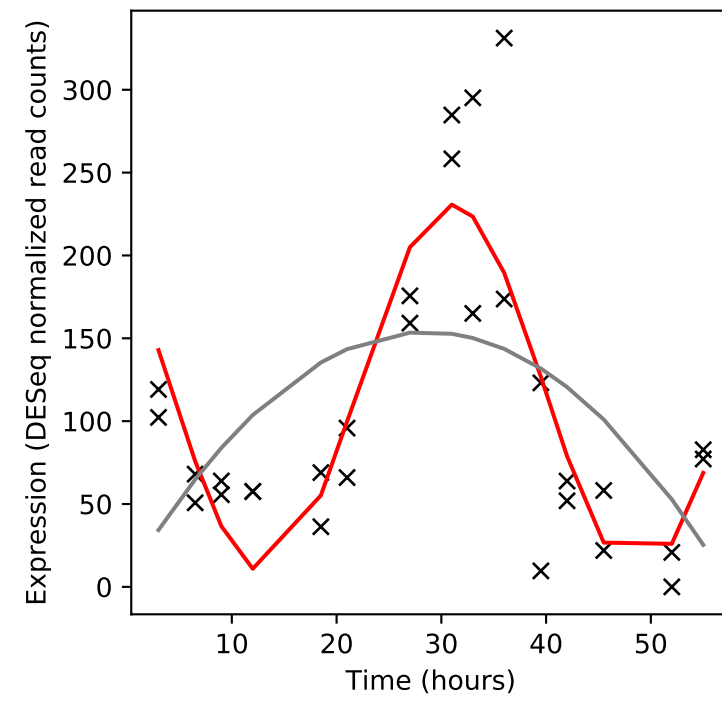
Rv1469/ctpD



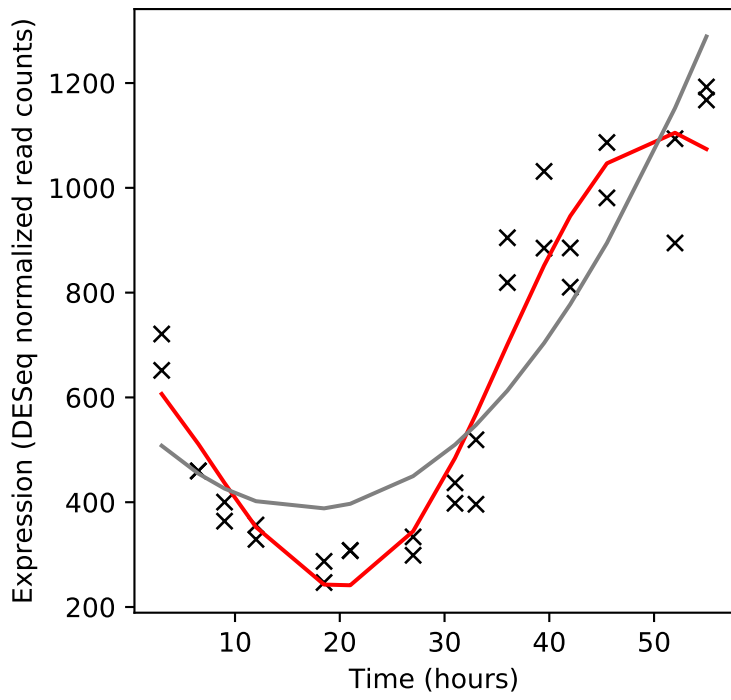
Rv1470/trxA



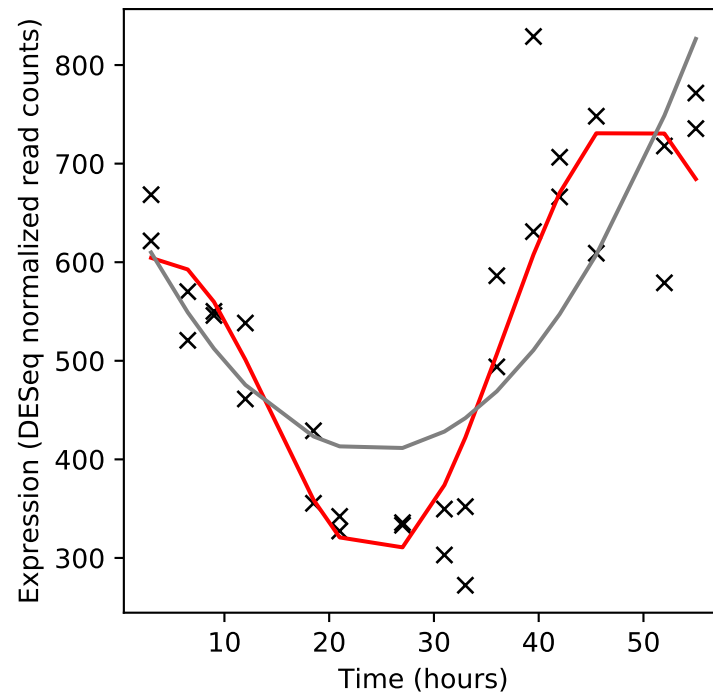
Rv1471/trxB1



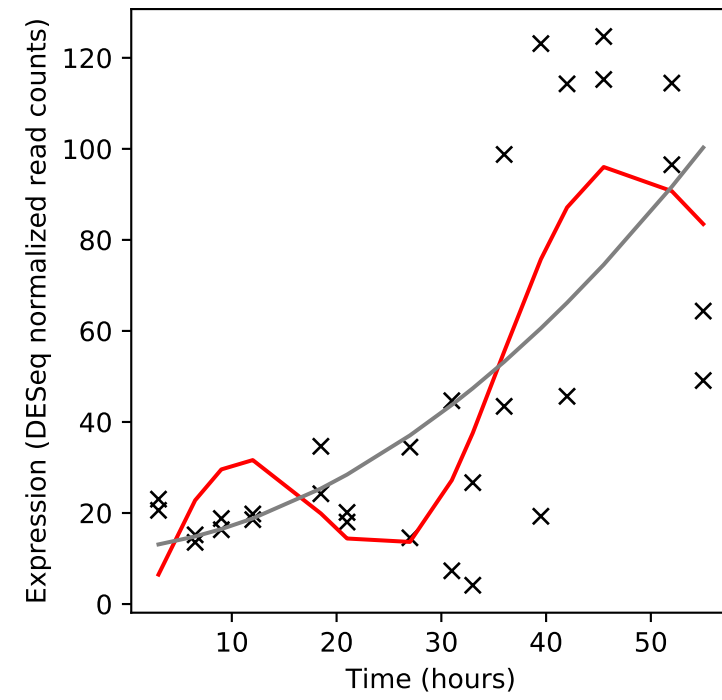
Rv1472/echA12



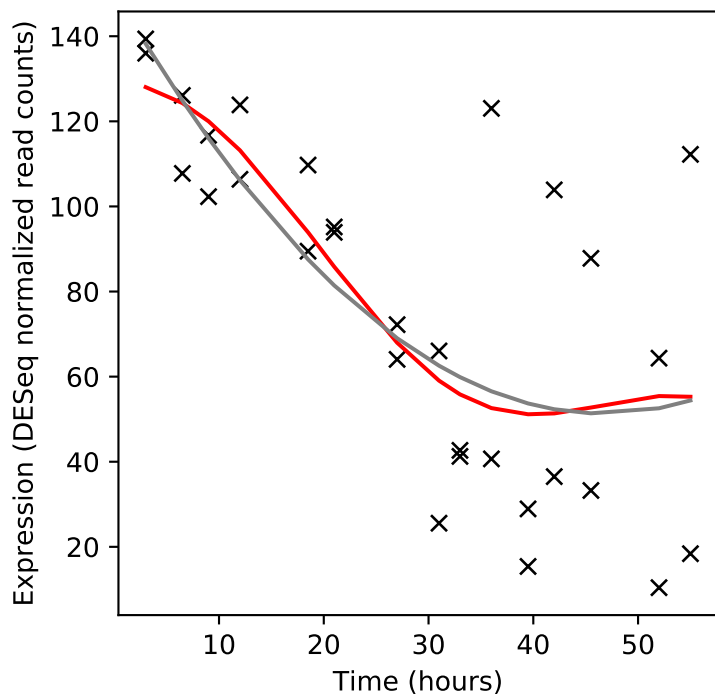
Rv1473/-



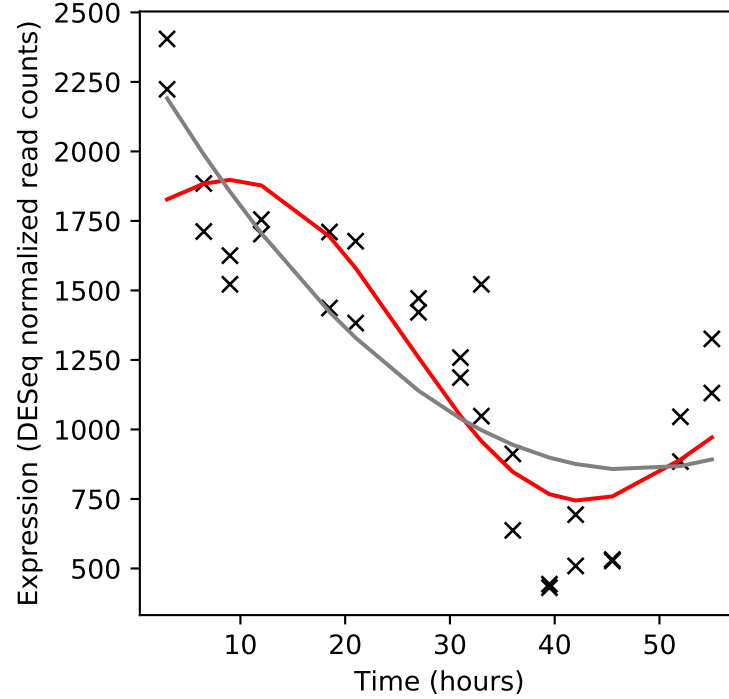
Rv1473A/-



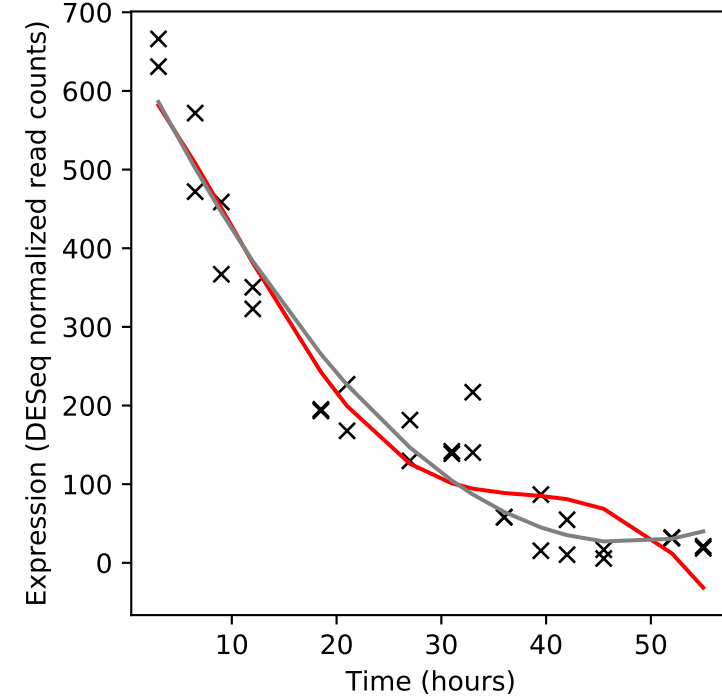
Rv1474c/-



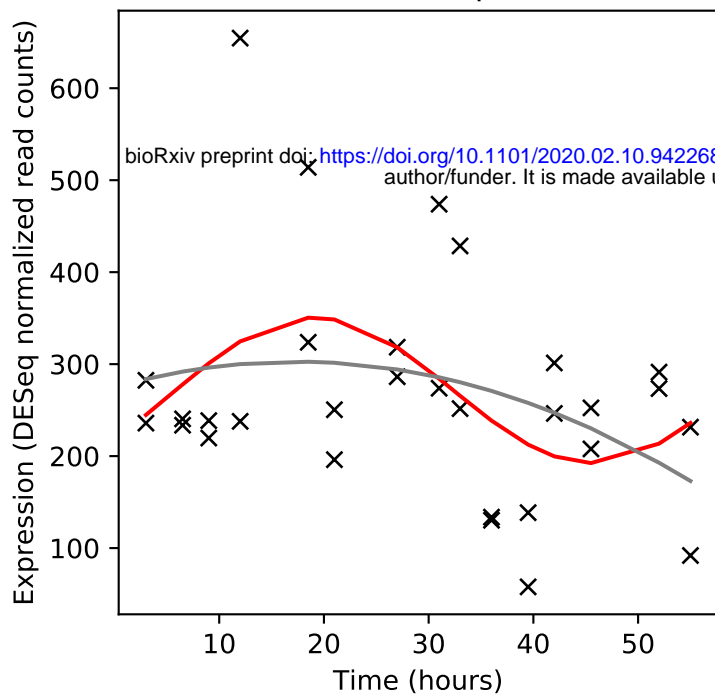
Rv1475c/acn



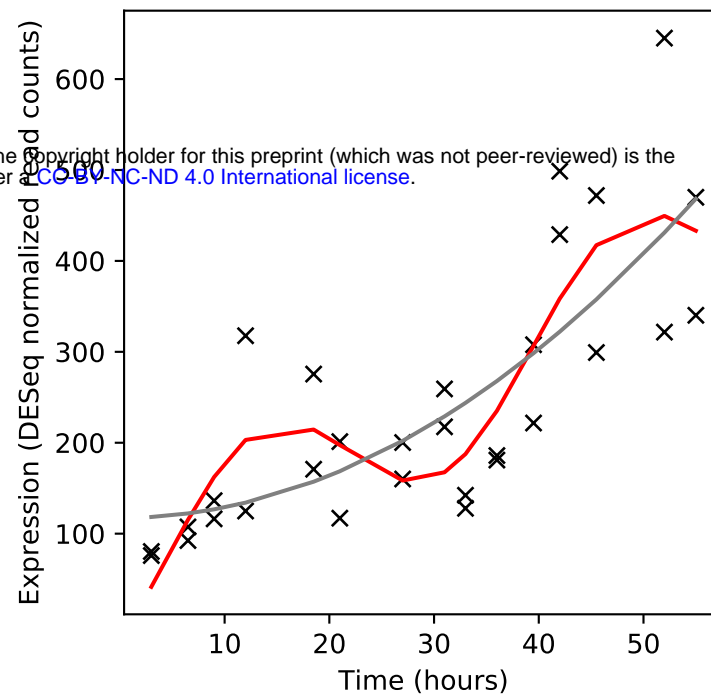
Rv1476/-



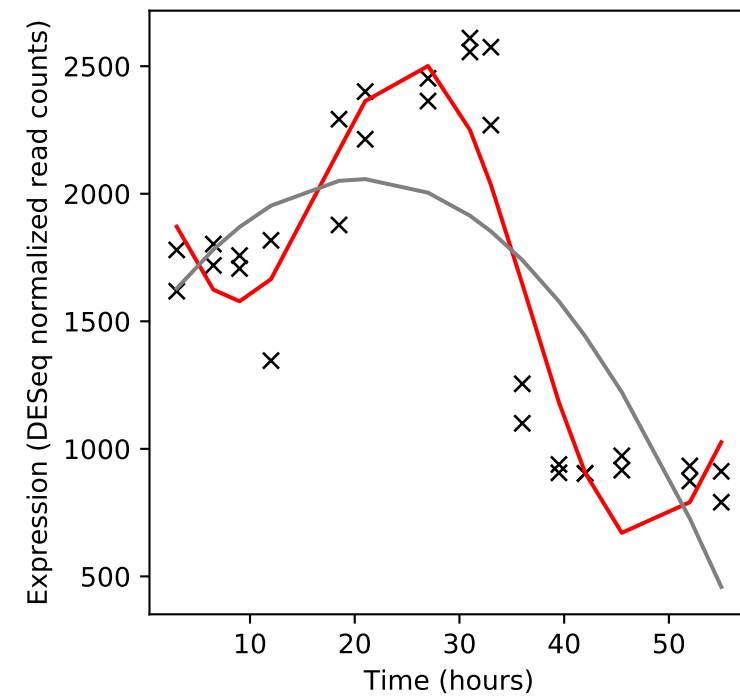
Rv1477/ripA



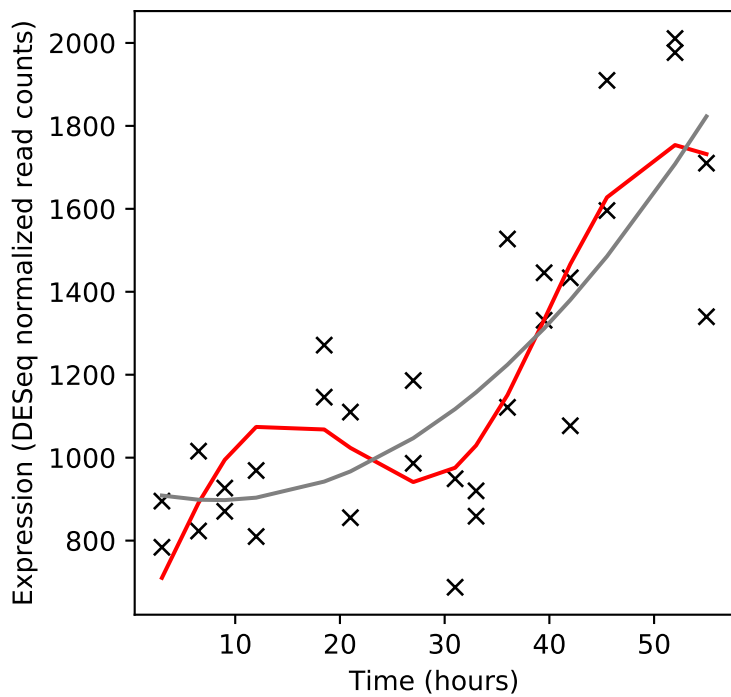
Rv1478/-



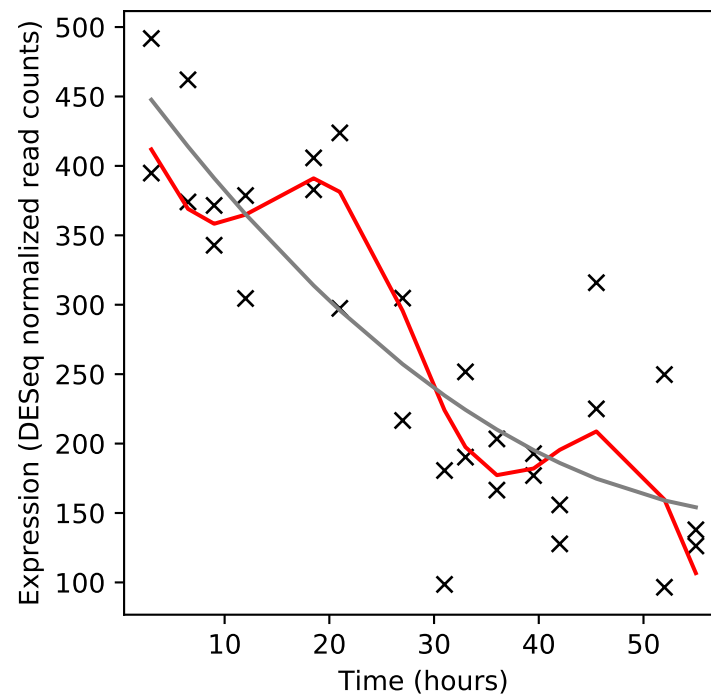
Rv1479/moxR1



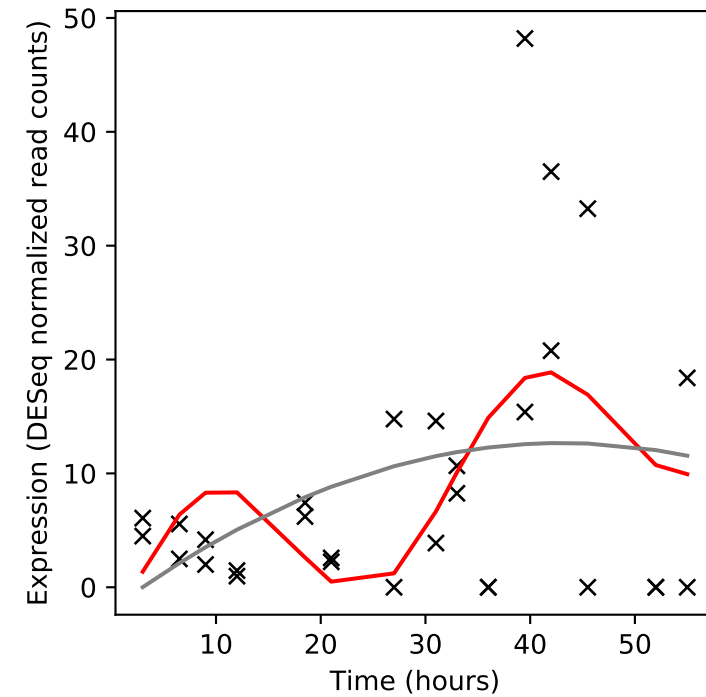
Rv1480/-



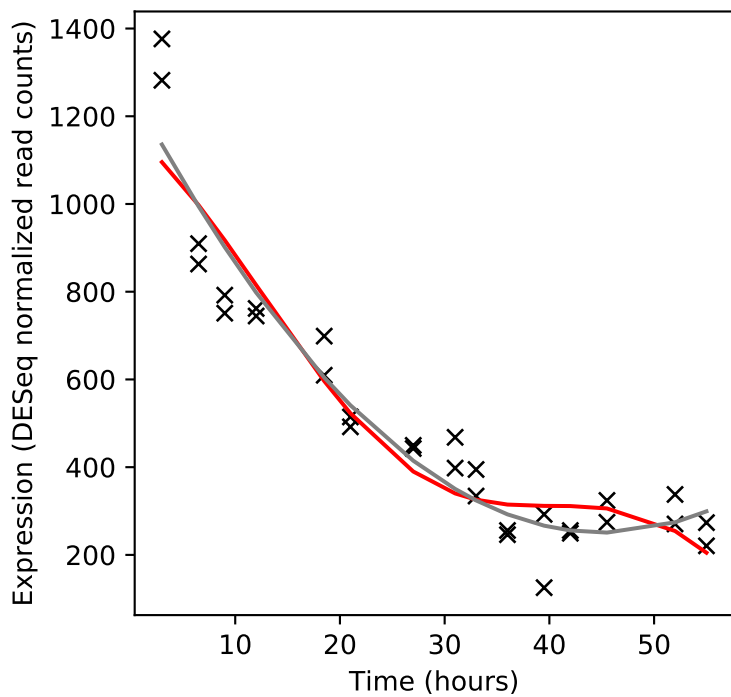
Rv1481/-



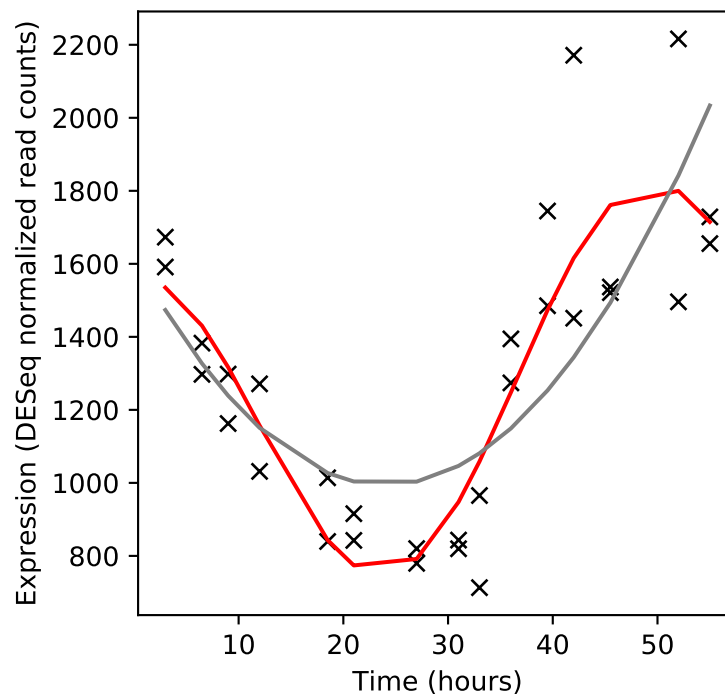
Rv1482c/-



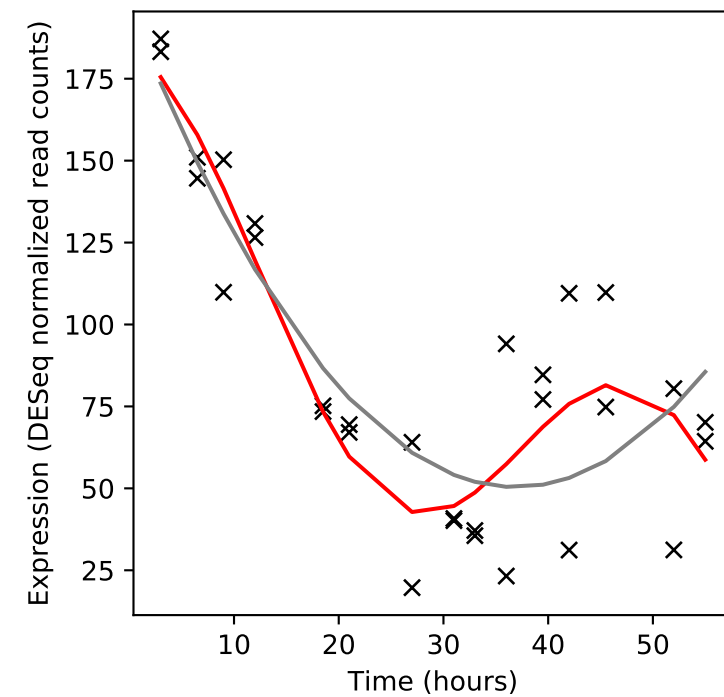
Rv1483/fabG1



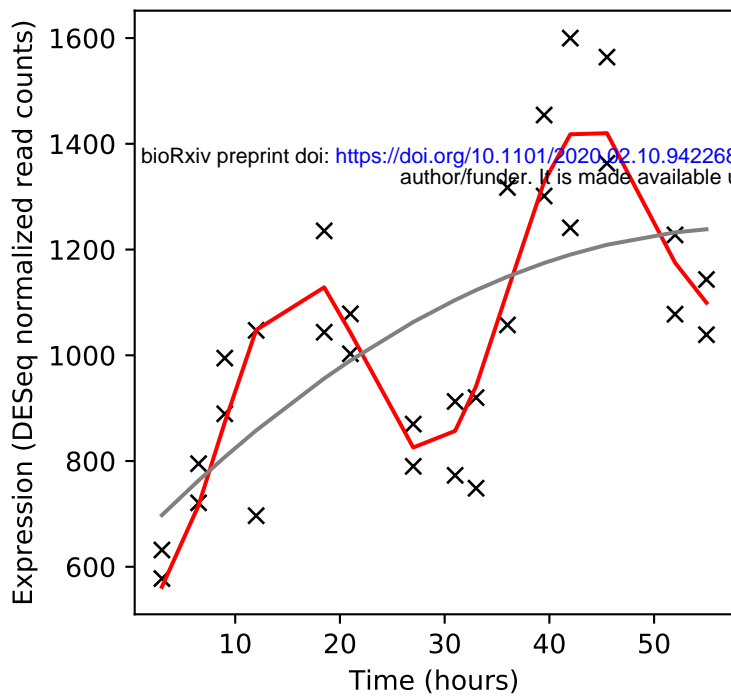
Rv1484/inhA



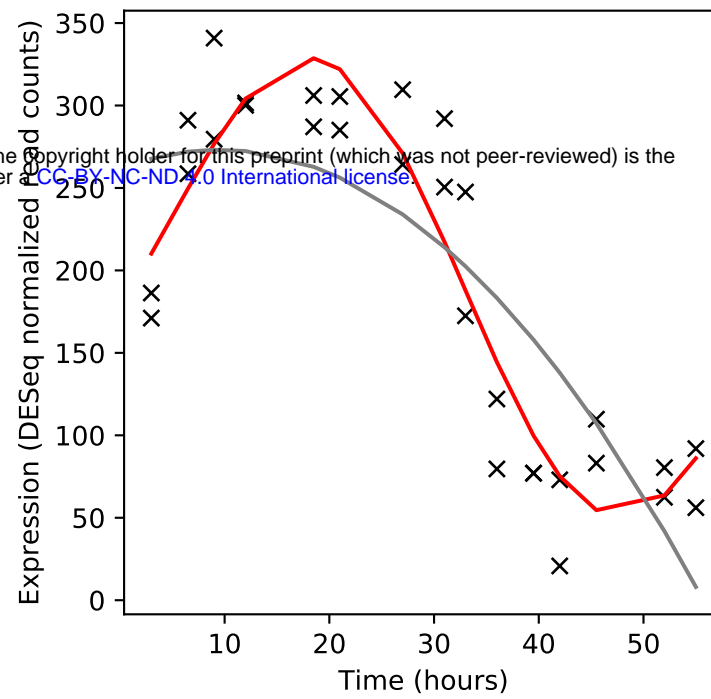
Rv1485/hemZ



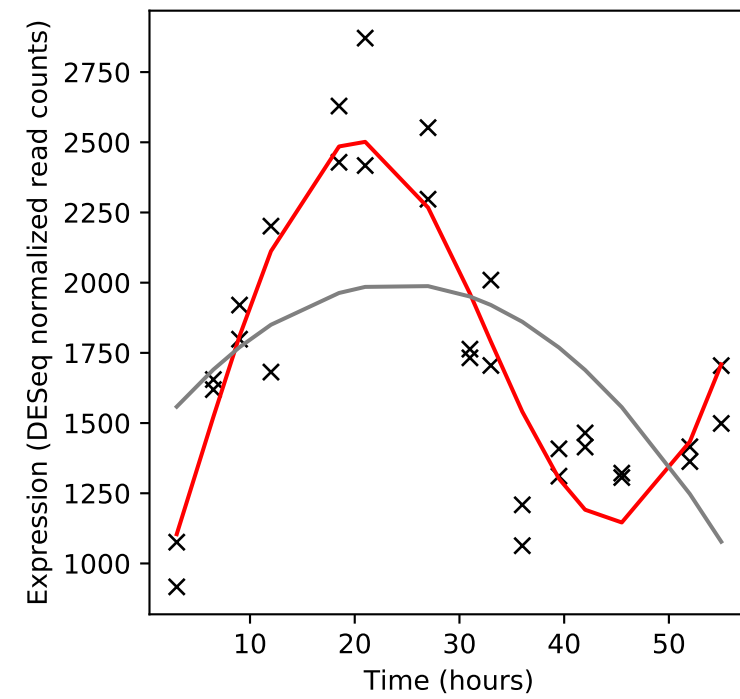
Rv1486c/-



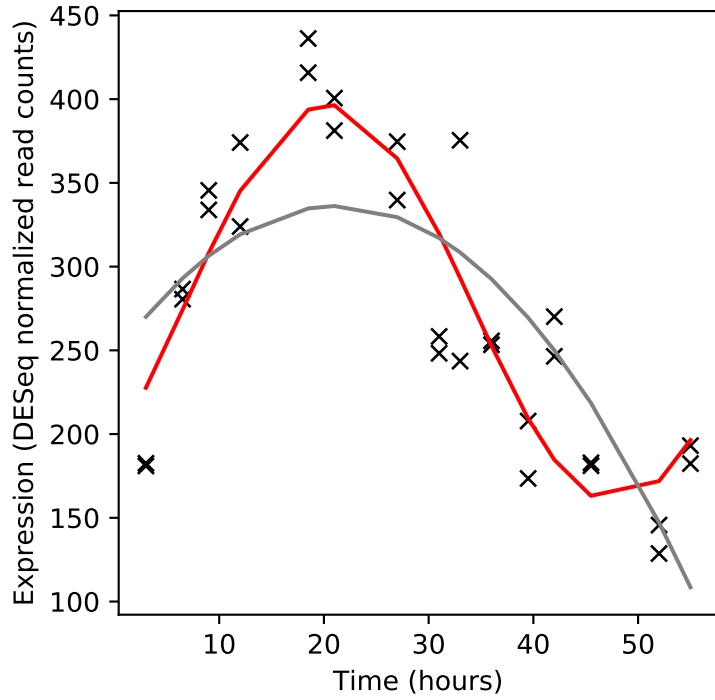
Rv1487/-



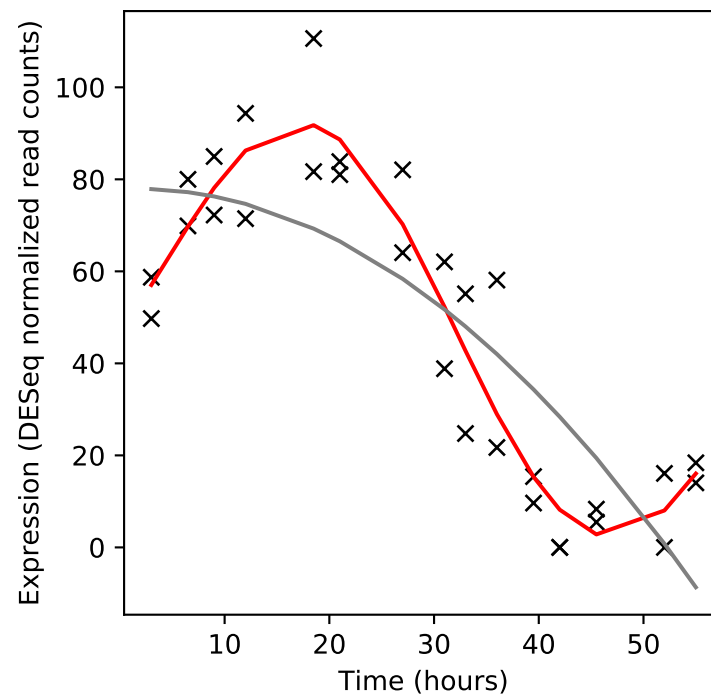
Rv1488/-



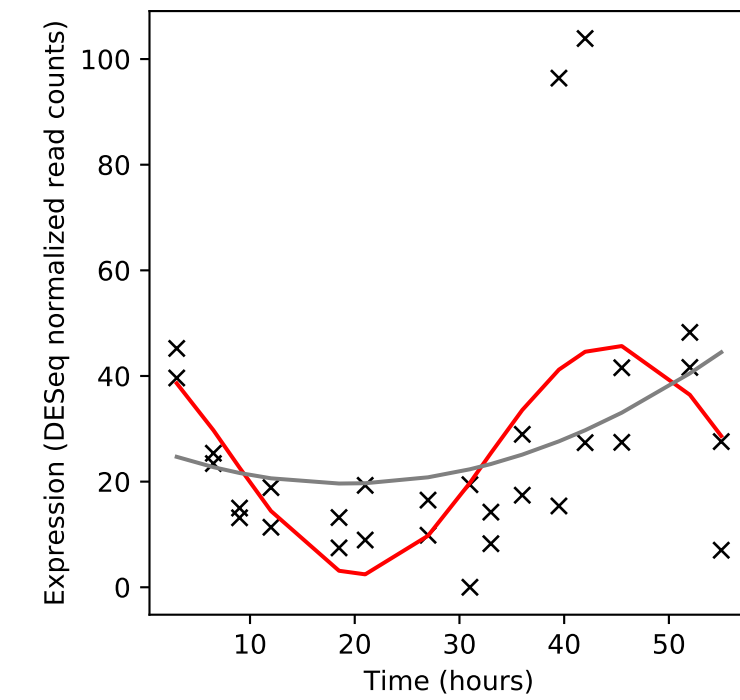
Rv1489/-



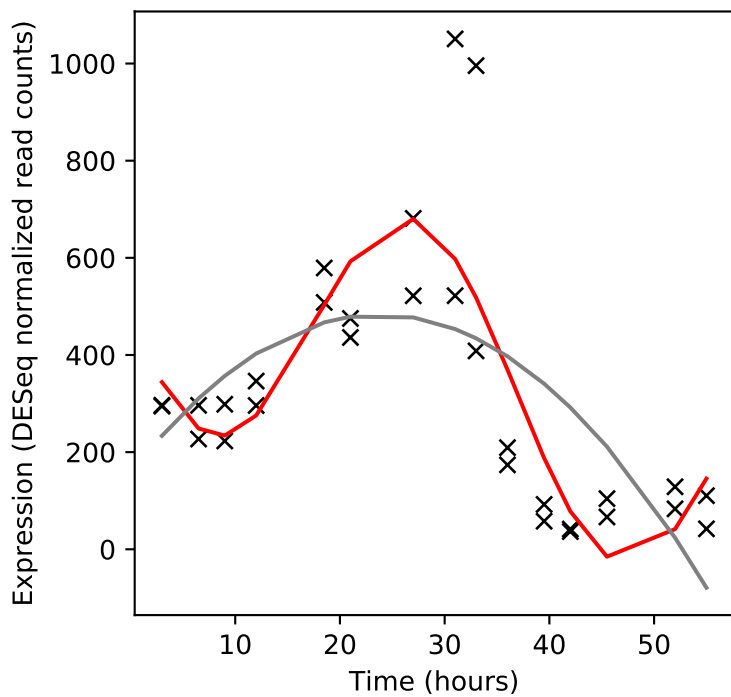
Rv1489A/-



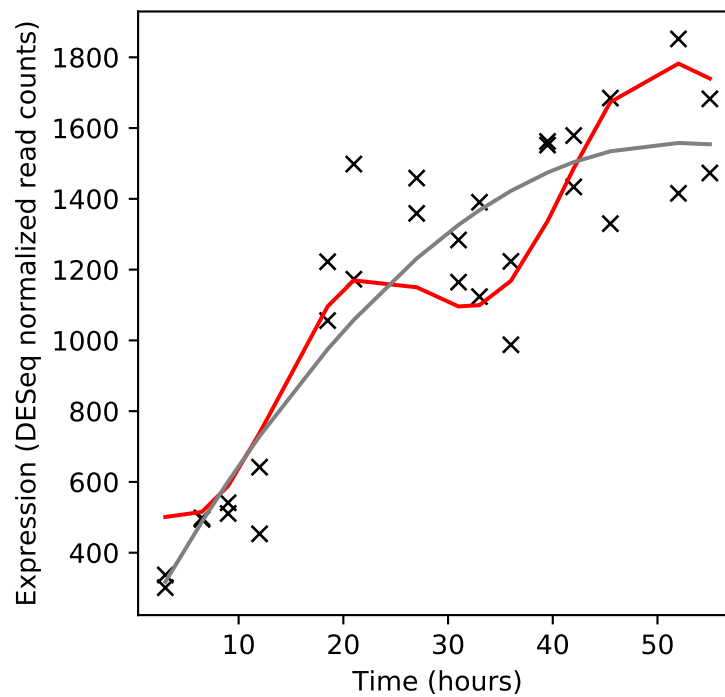
Rv1490/-



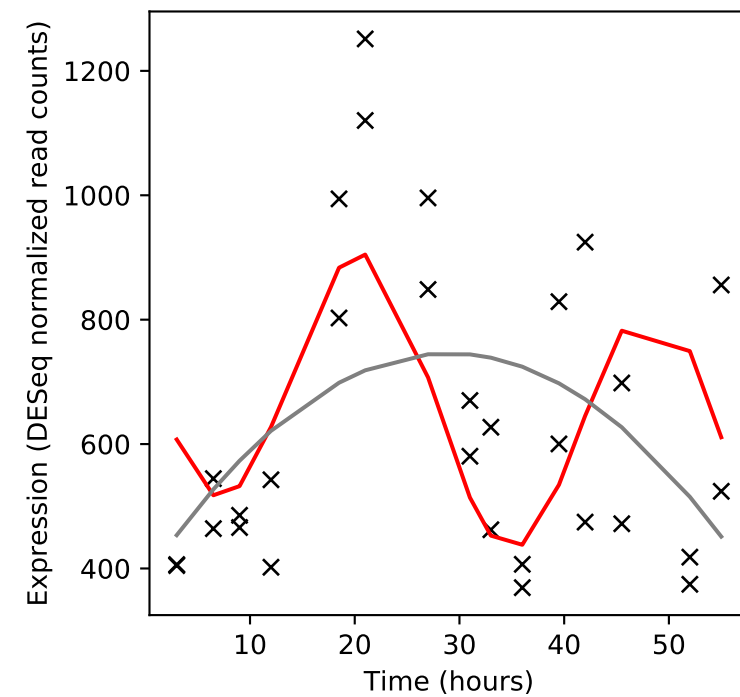
Rv1491c/-



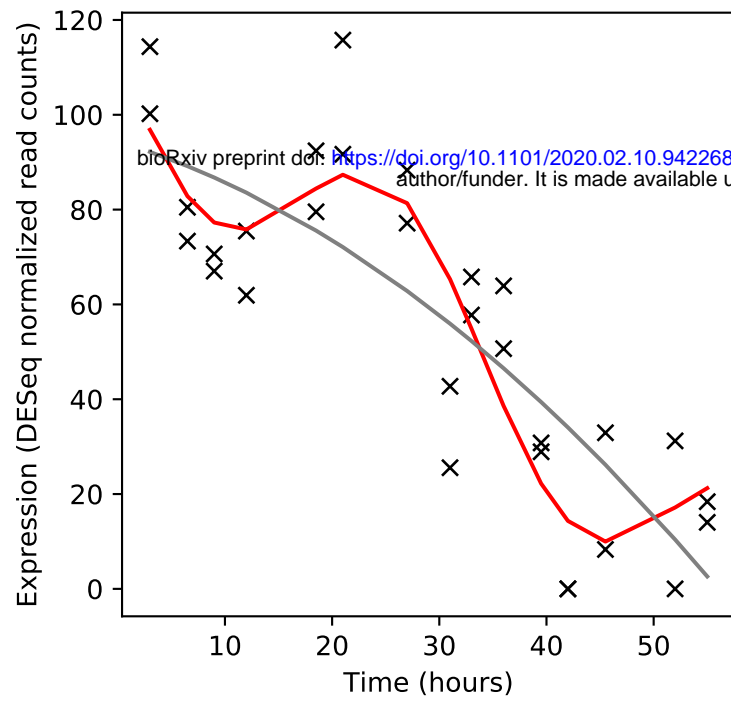
Rv1492/mutA



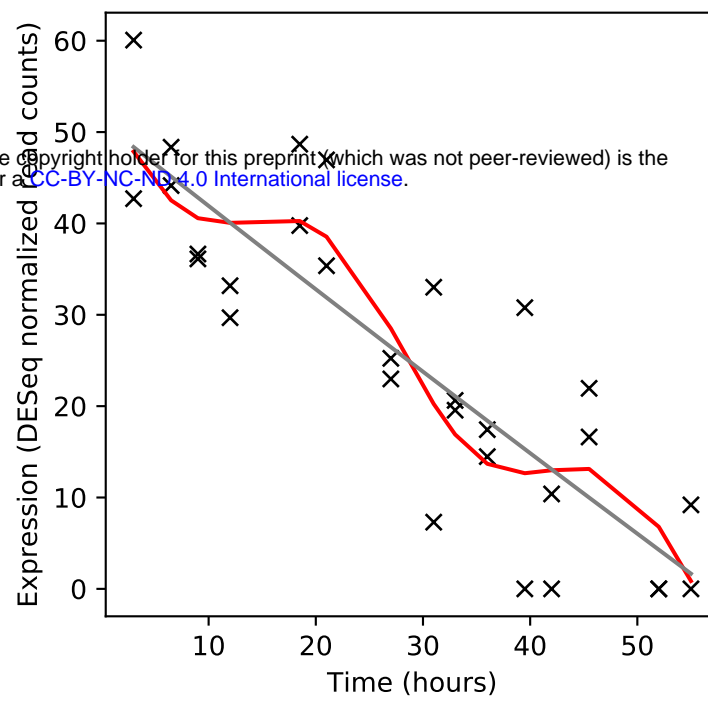
Rv1493/mutB



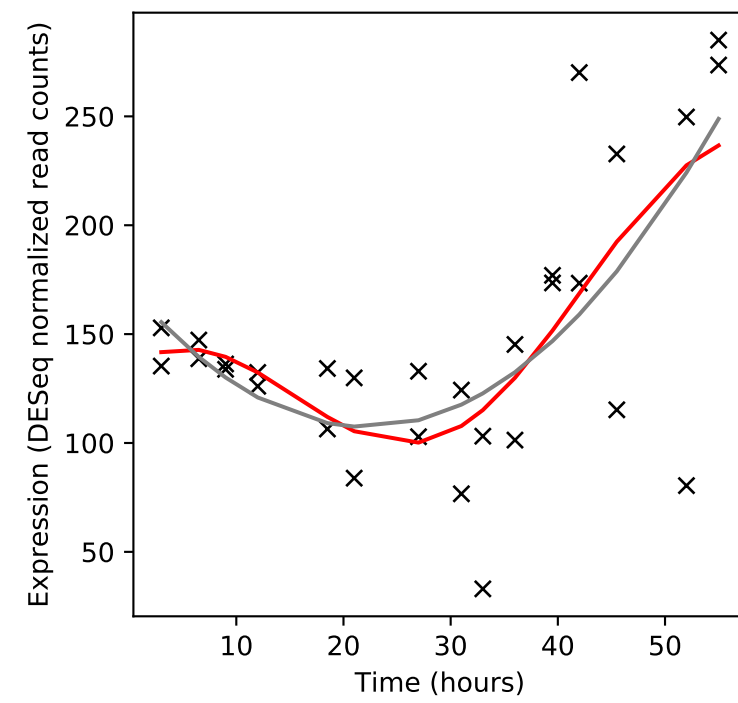
Rv1494/mazE4



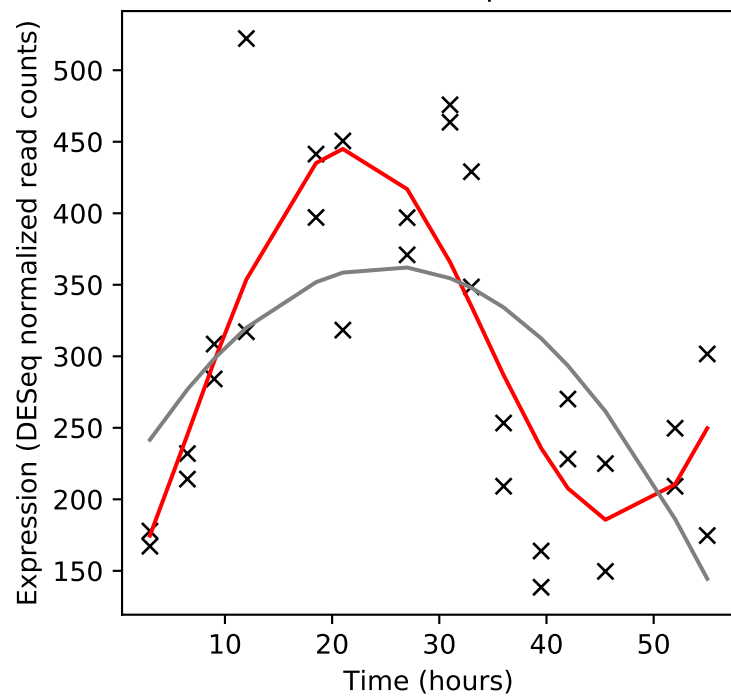
Rv1495/mazF4



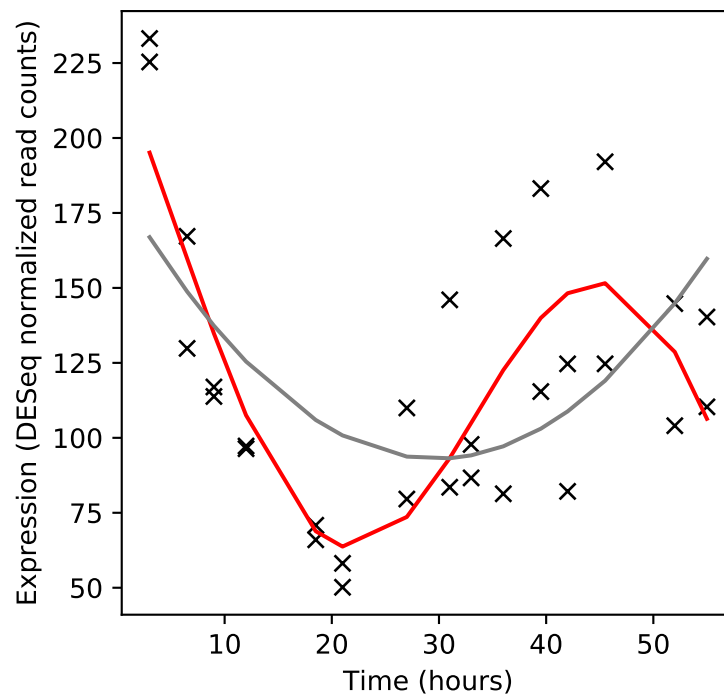
Rv1496/-



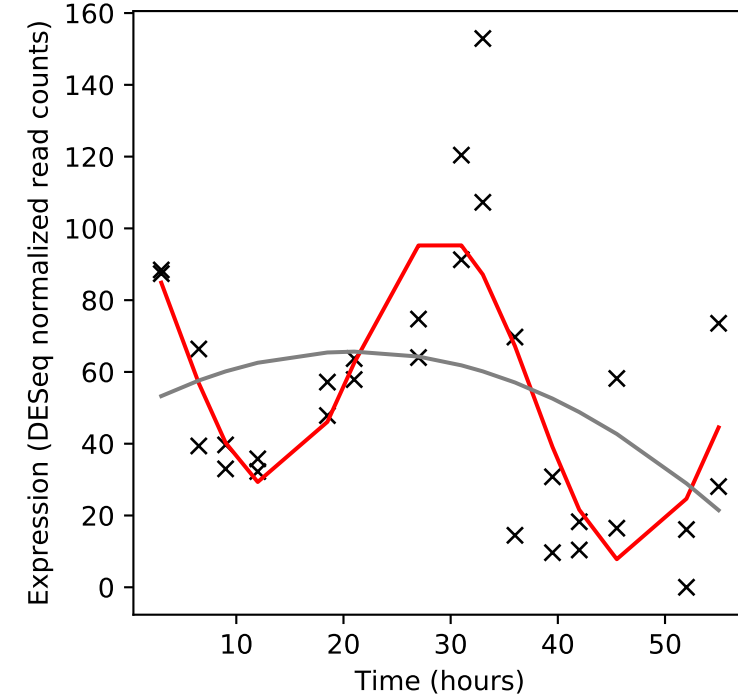
Rv1497/lipL



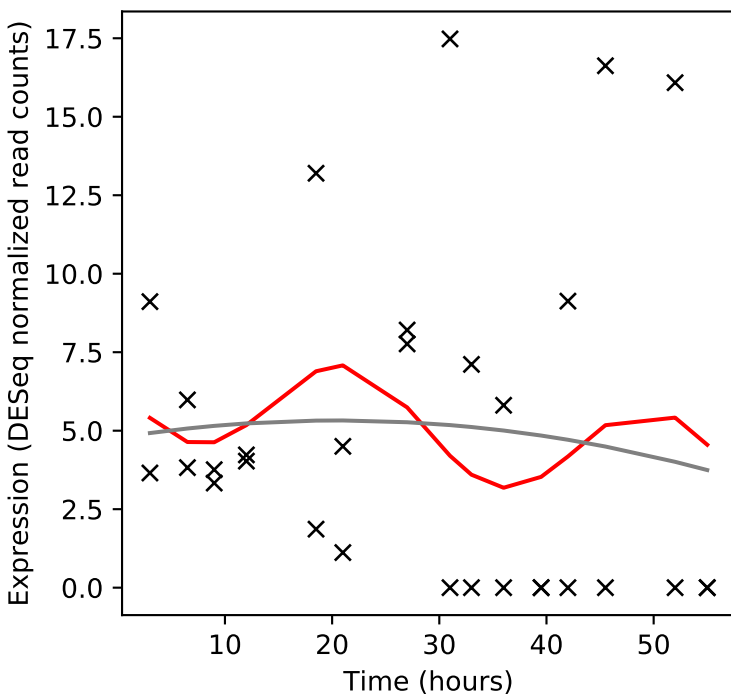
Rv1498c/-



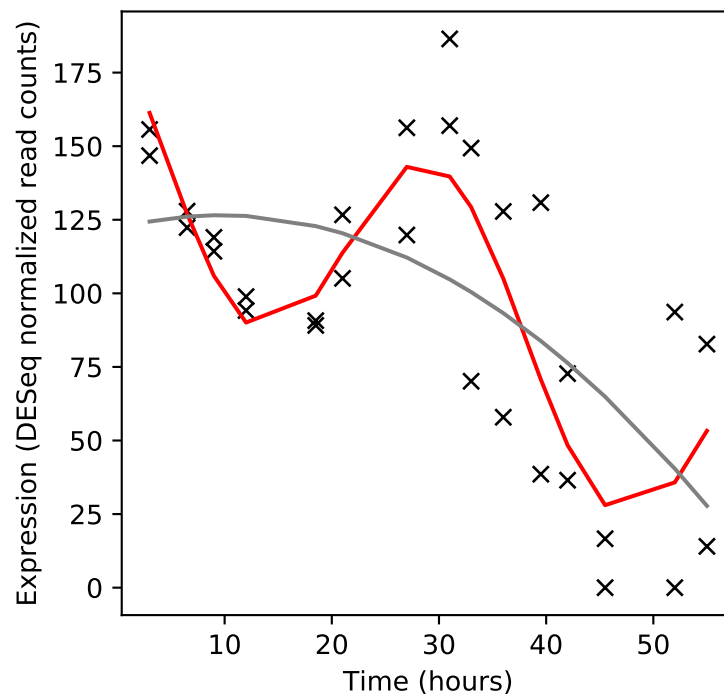
Rv1498A/-



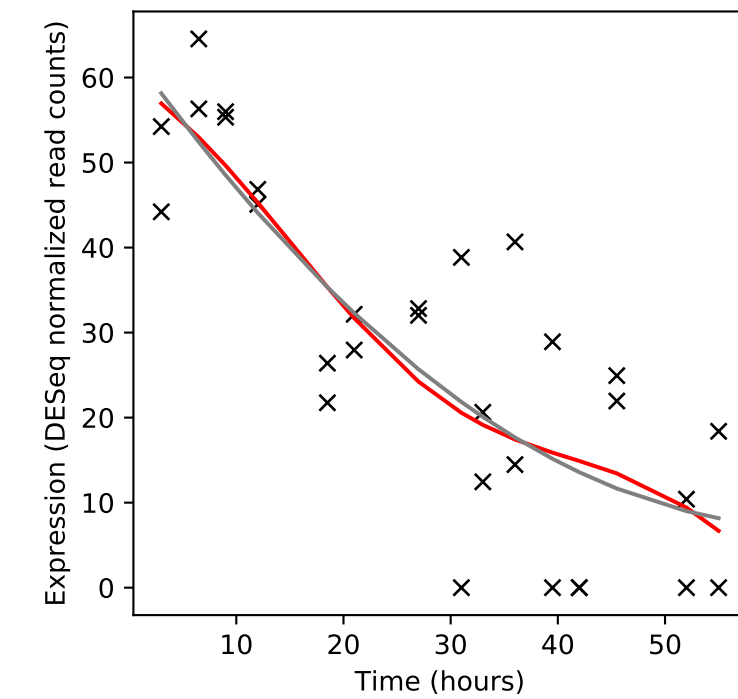
Rv1499/-



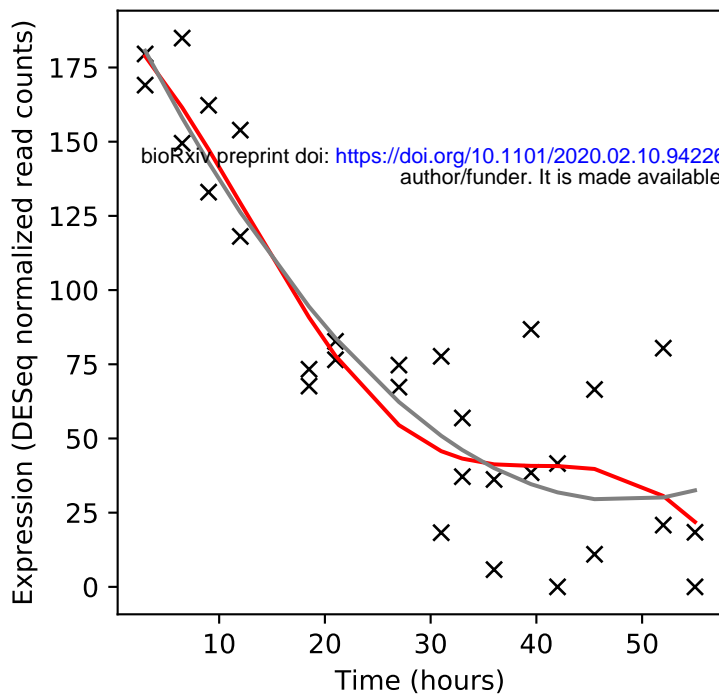
Rv1500/-



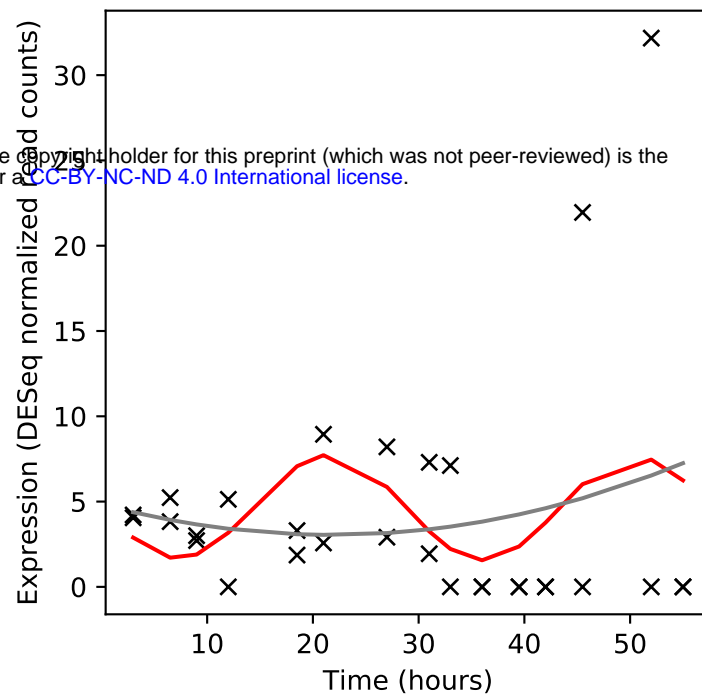
Rv1501/-



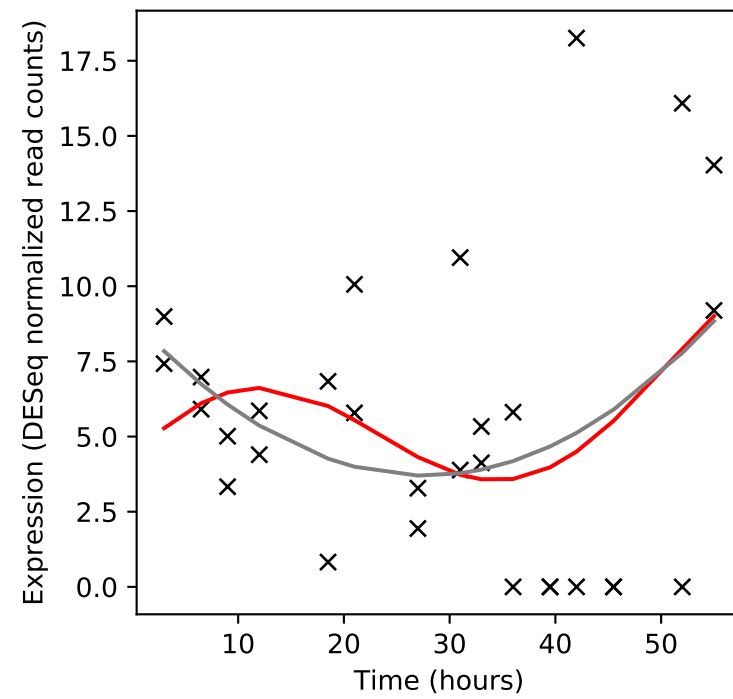
Rv1502/-



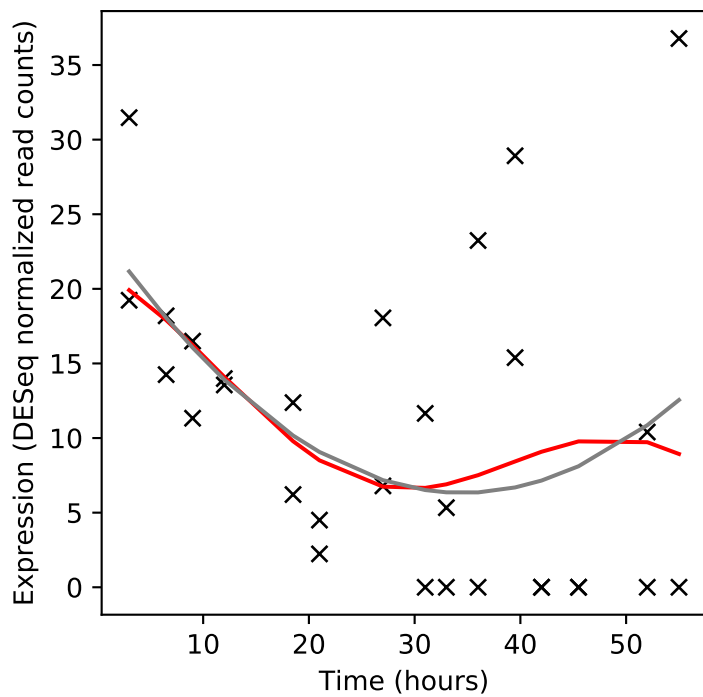
Rv1503c/-



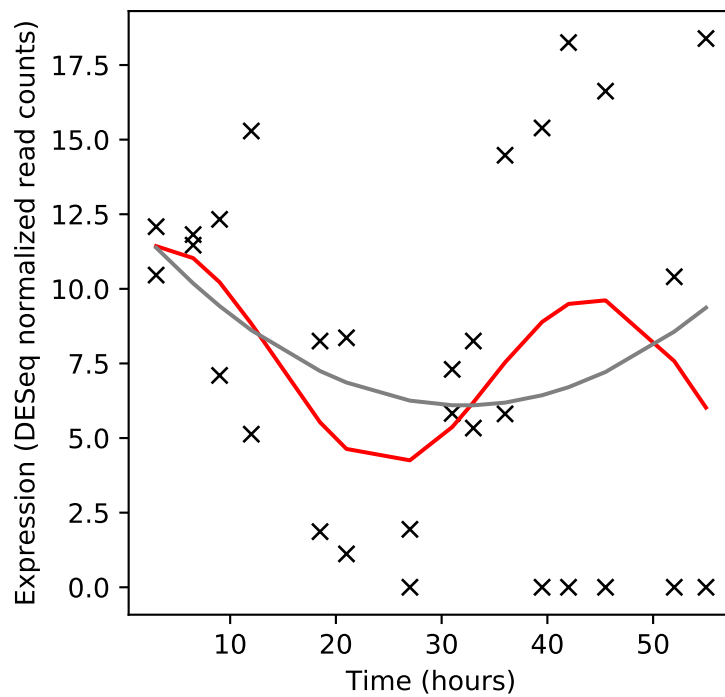
Rv1504c/-



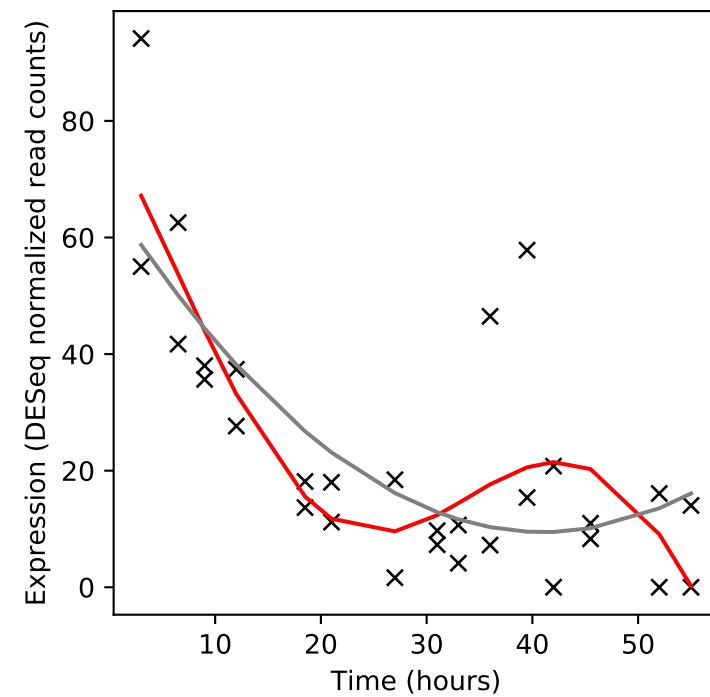
Rv1505c/-



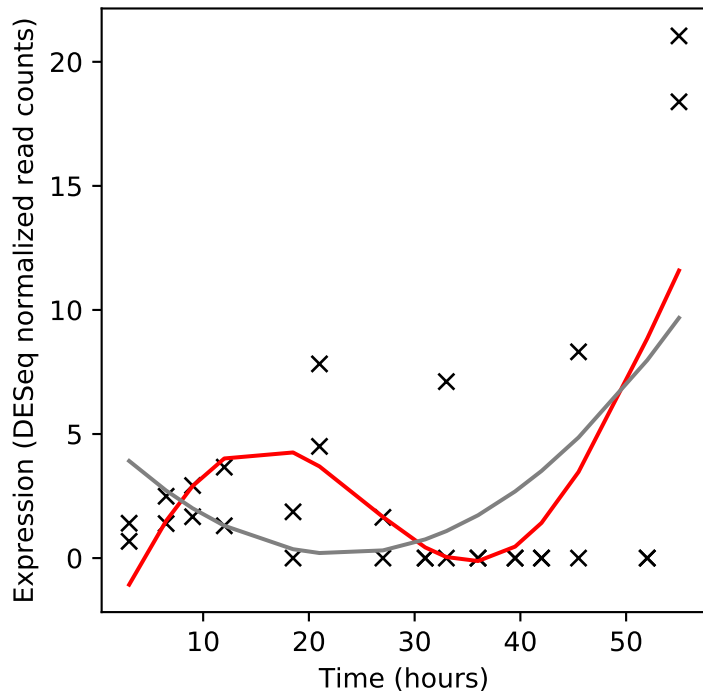
Rv1506c/-



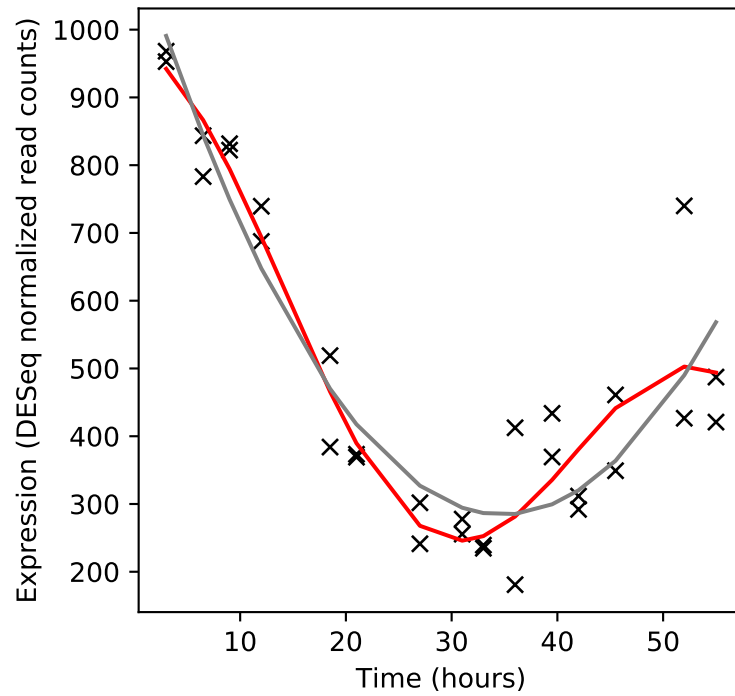
Rv1507c/-



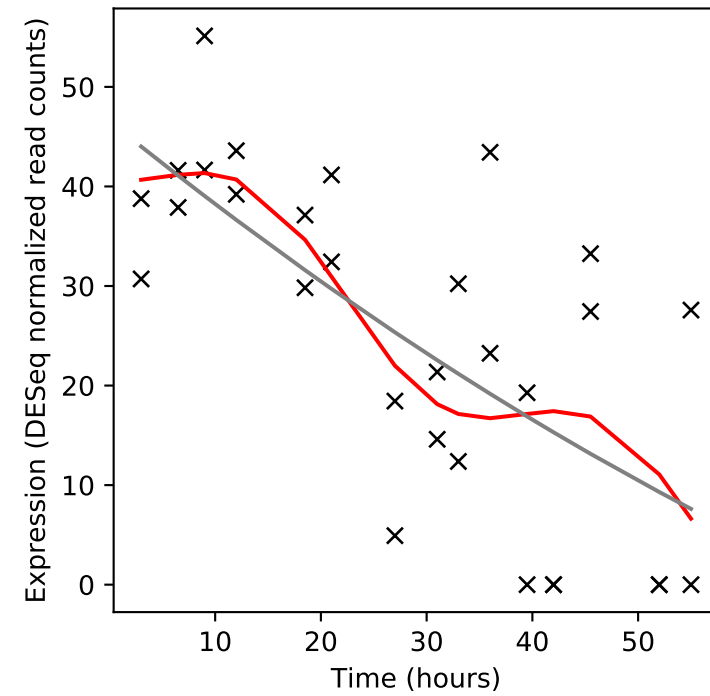
Rv1507A/-



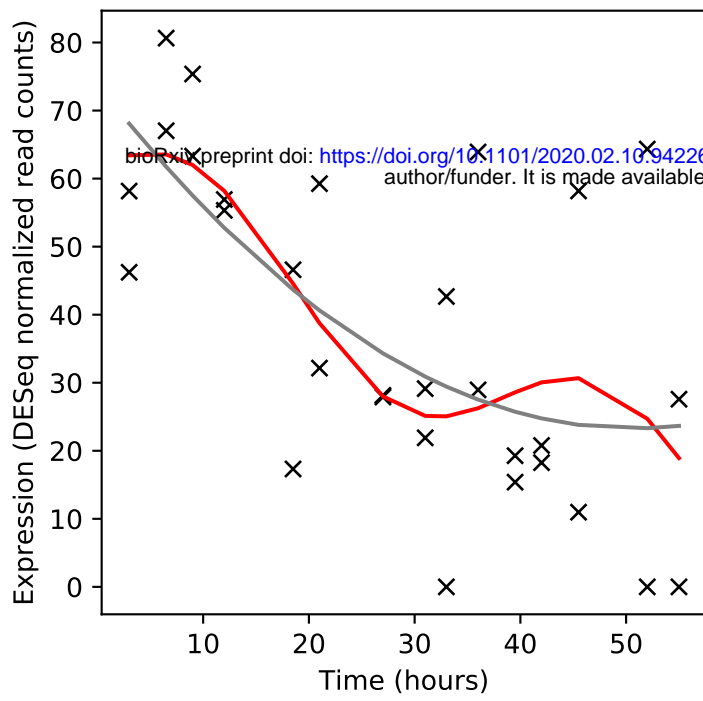
Rv1508c/-



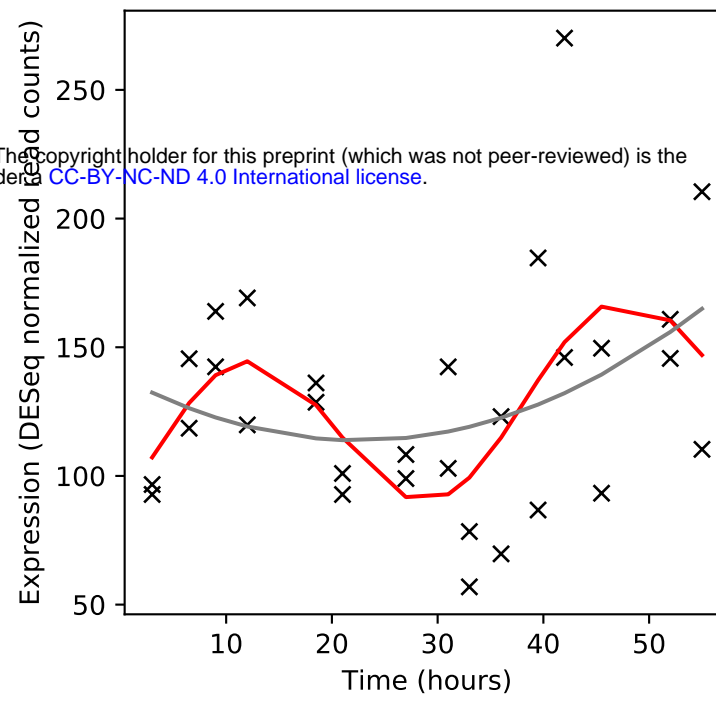
Rv1508A/-



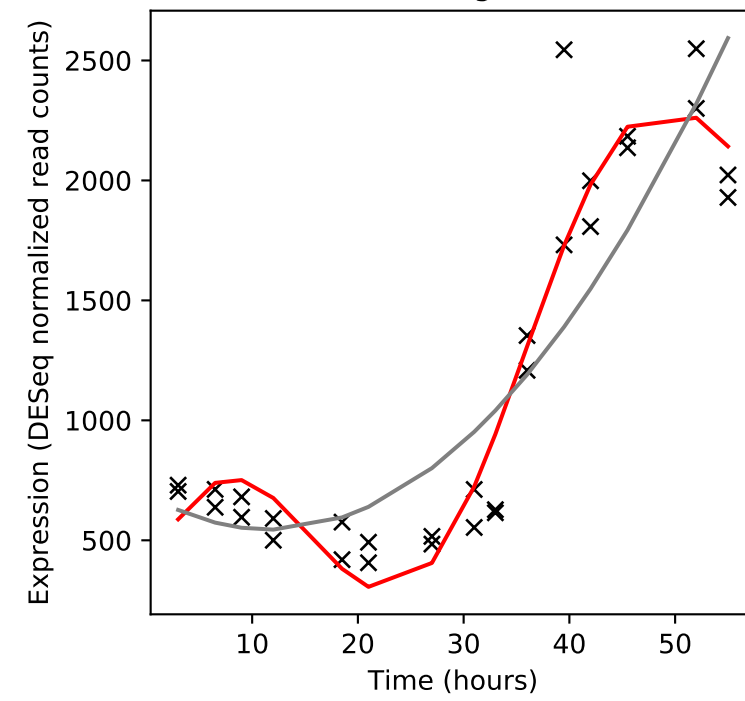
Rv1509/-



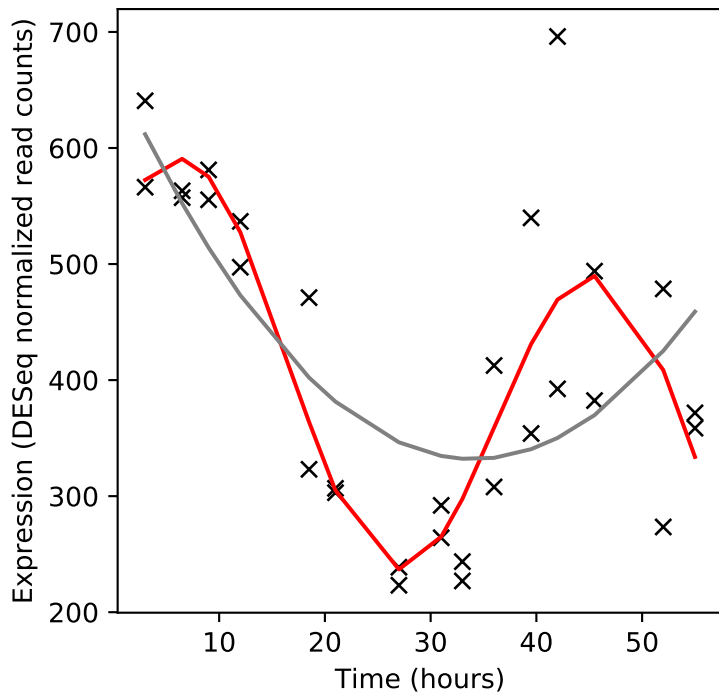
Rv1510/-



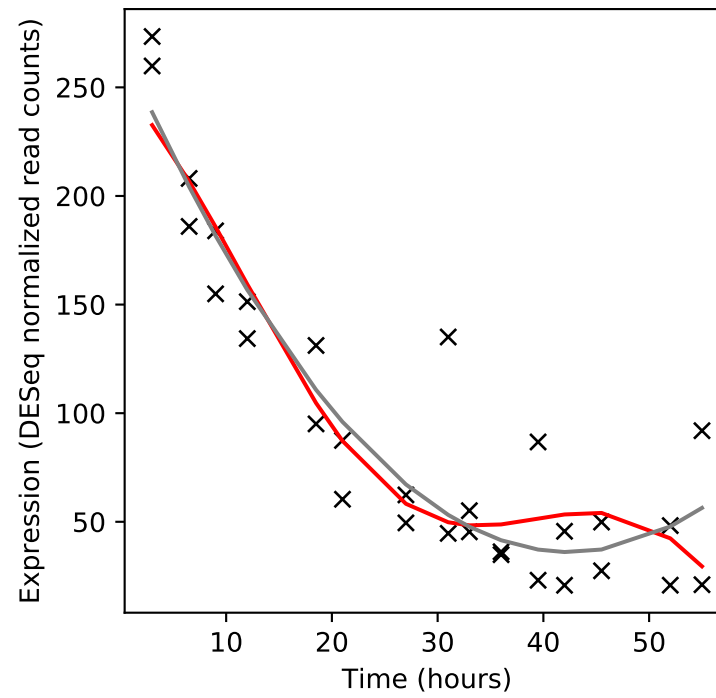
Rv1511/gmdA



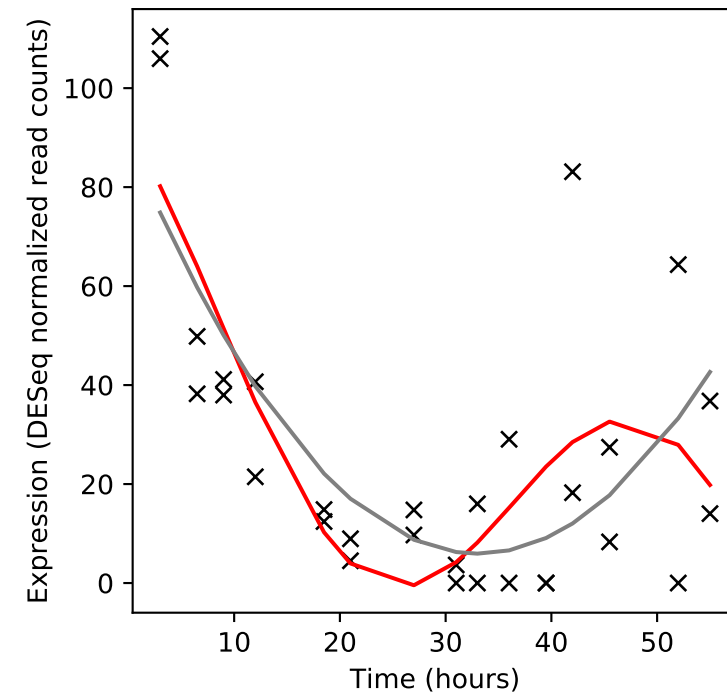
Rv1512/epiA



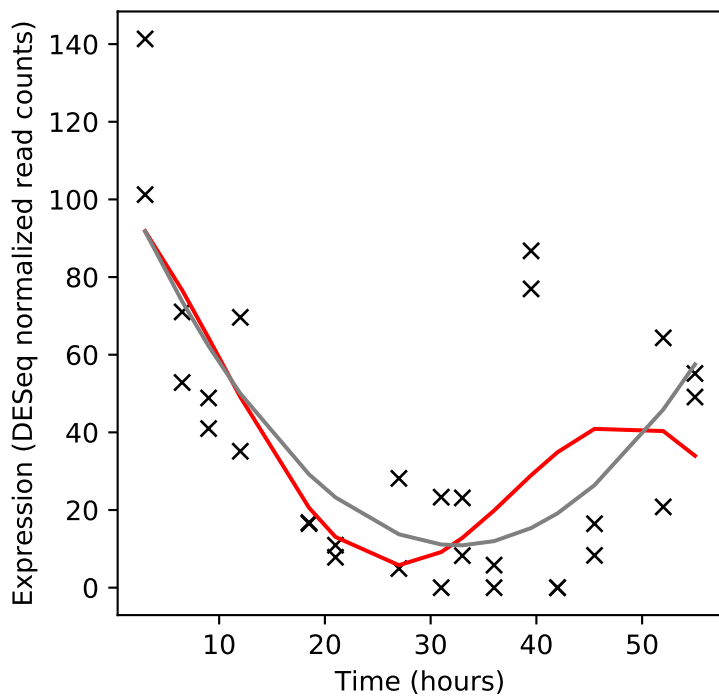
Rv1513/-



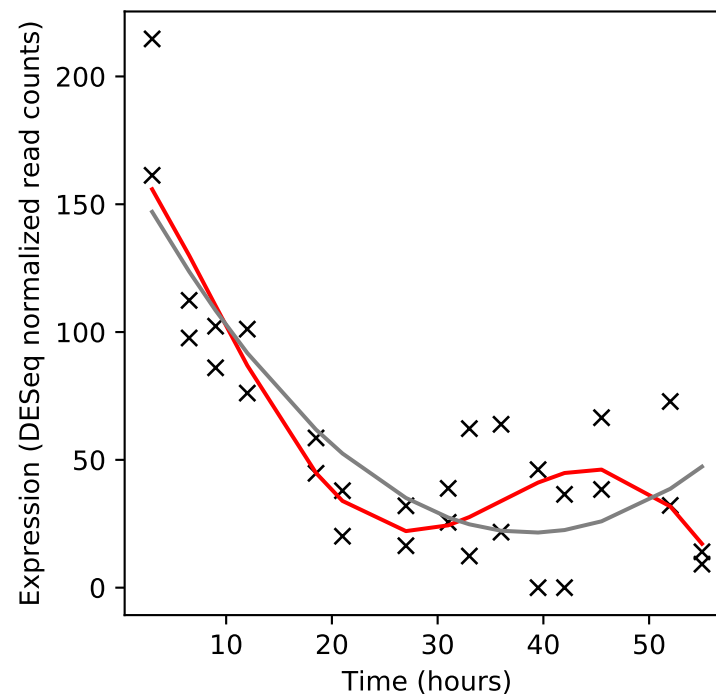
Rv1514c/-



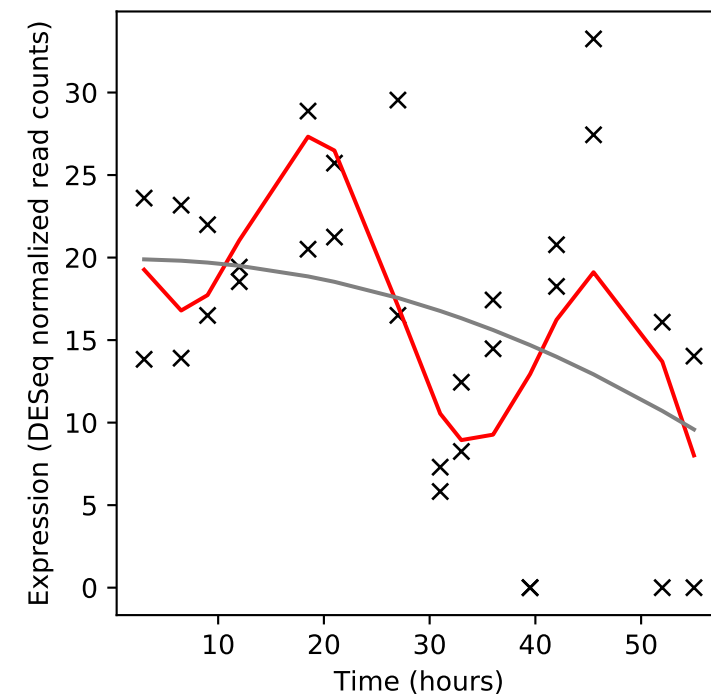
Rv1515c/-



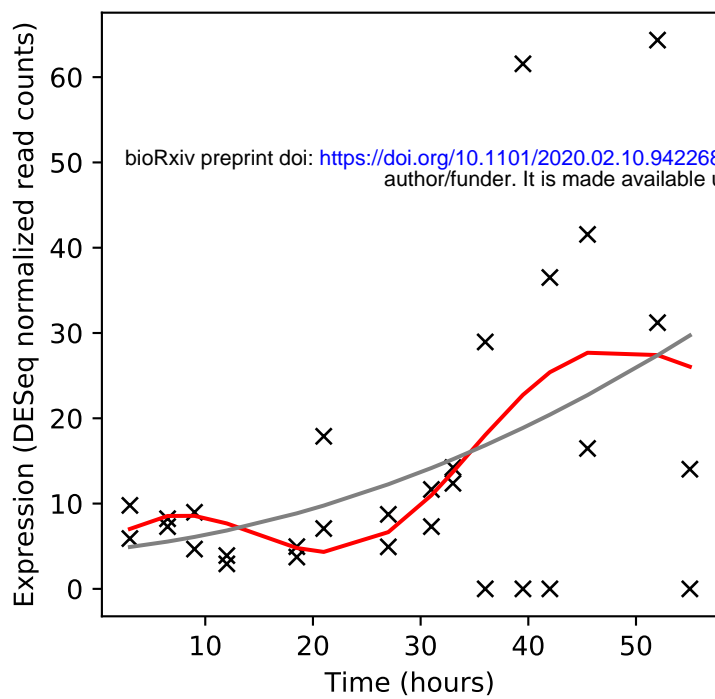
Rv1516c/-



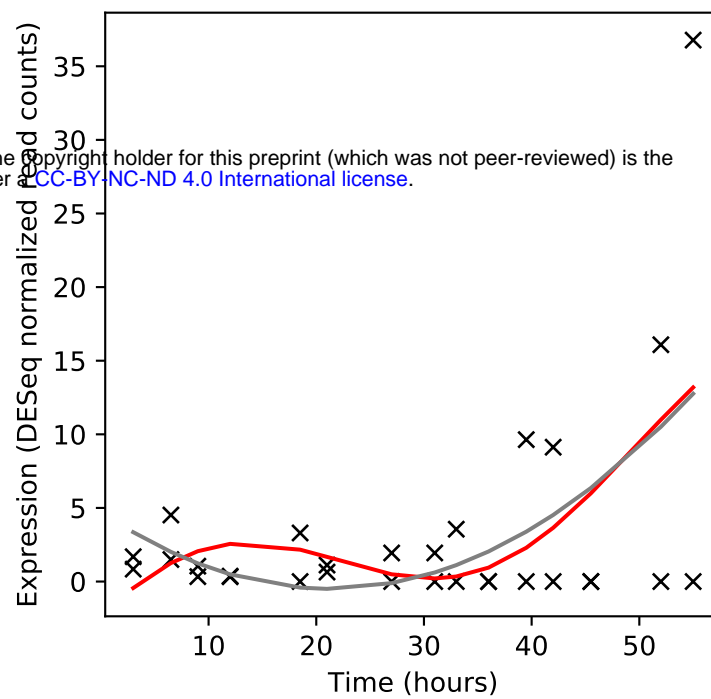
Rv1517/-



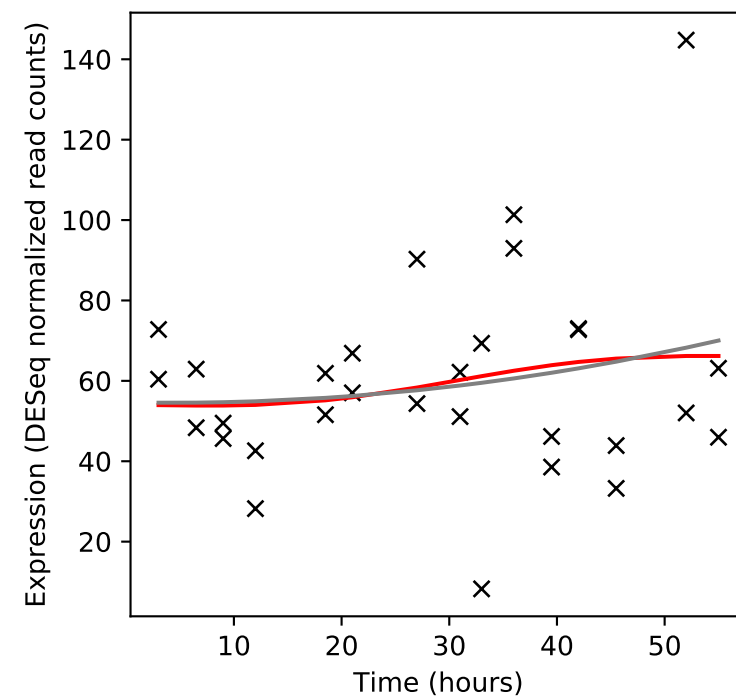
Rv1518/-



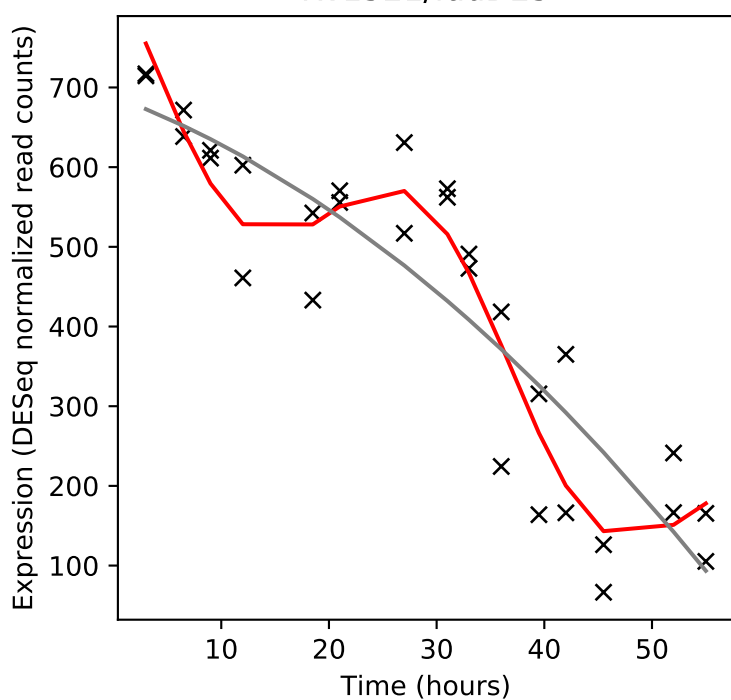
Rv1519/-



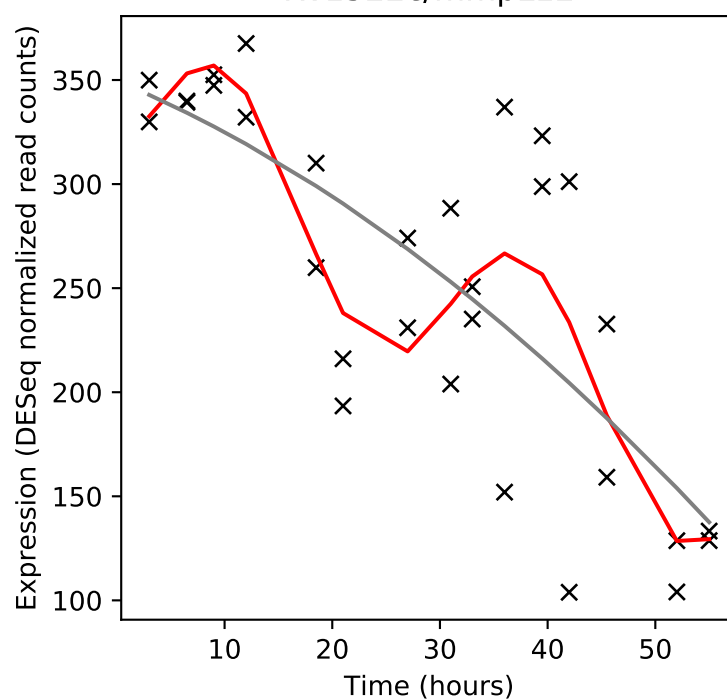
Rv1520/-



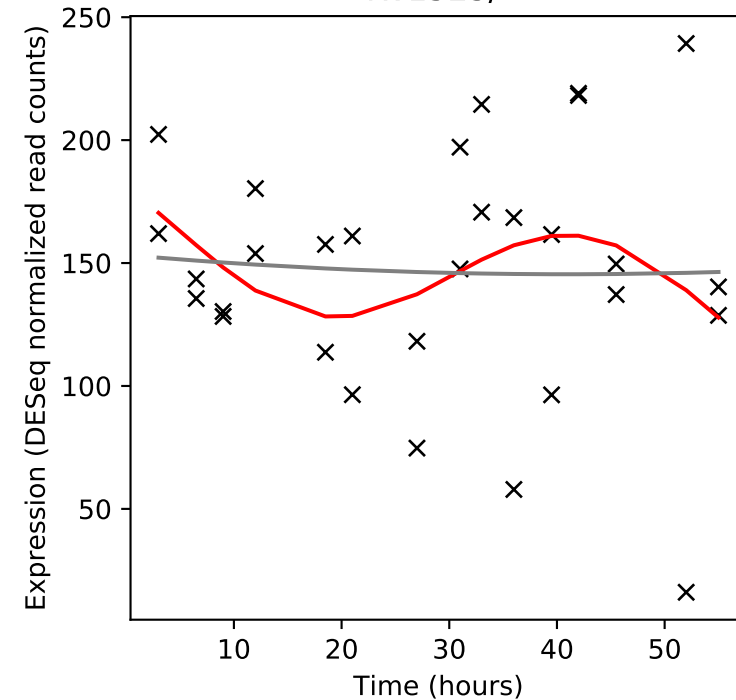
Rv1521/fadD25



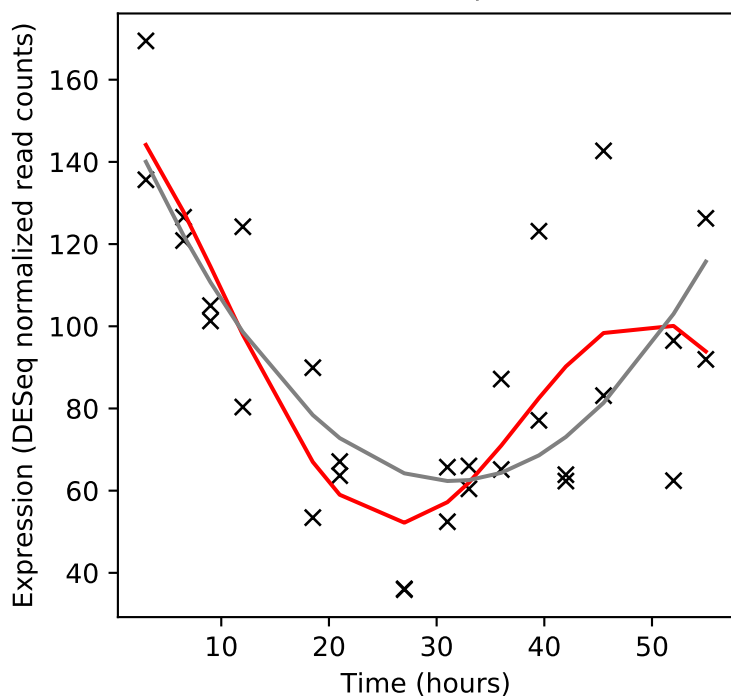
Rv1522c/mmpL12



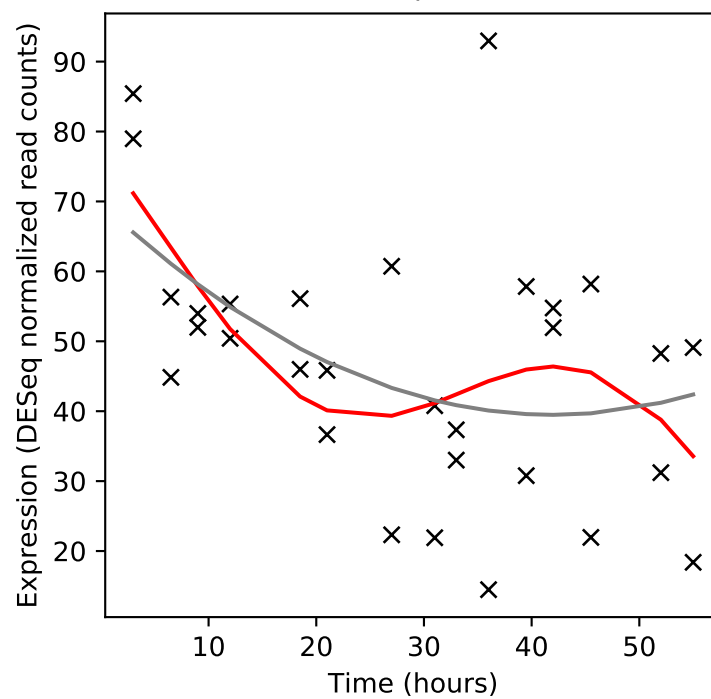
Rv1523/-



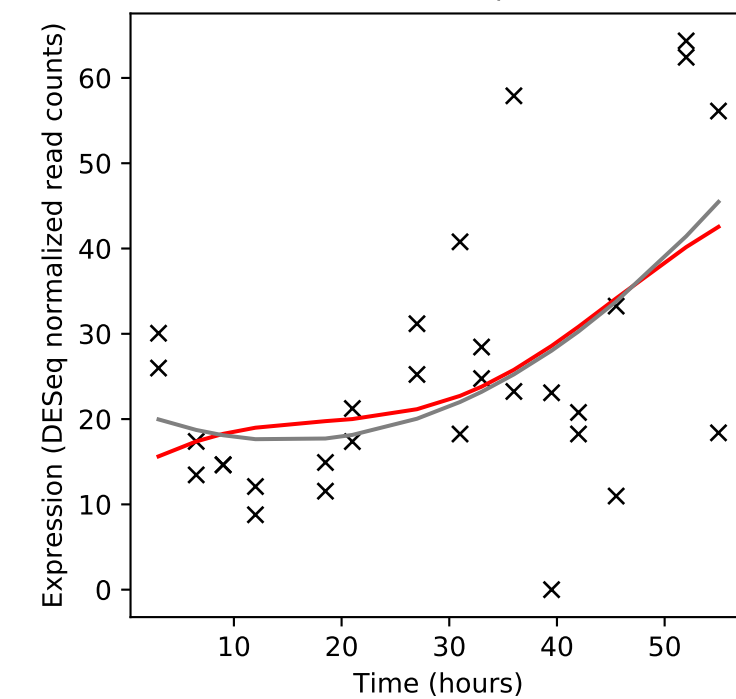
Rv1524/-



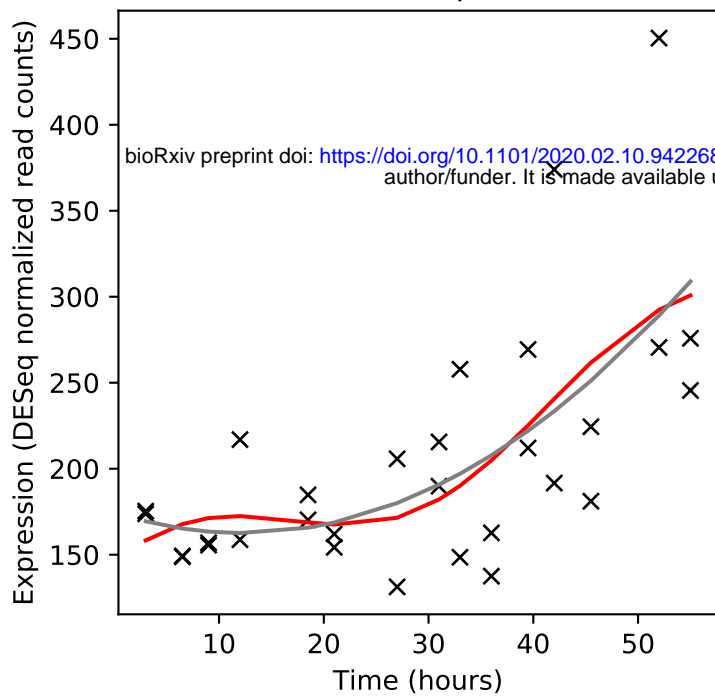
Rv1525/wbbL2



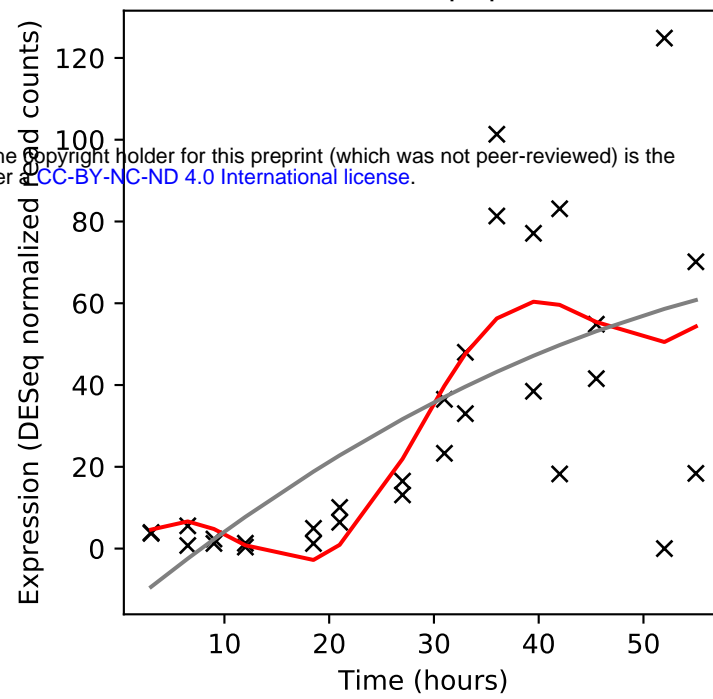
Rv1526c/-



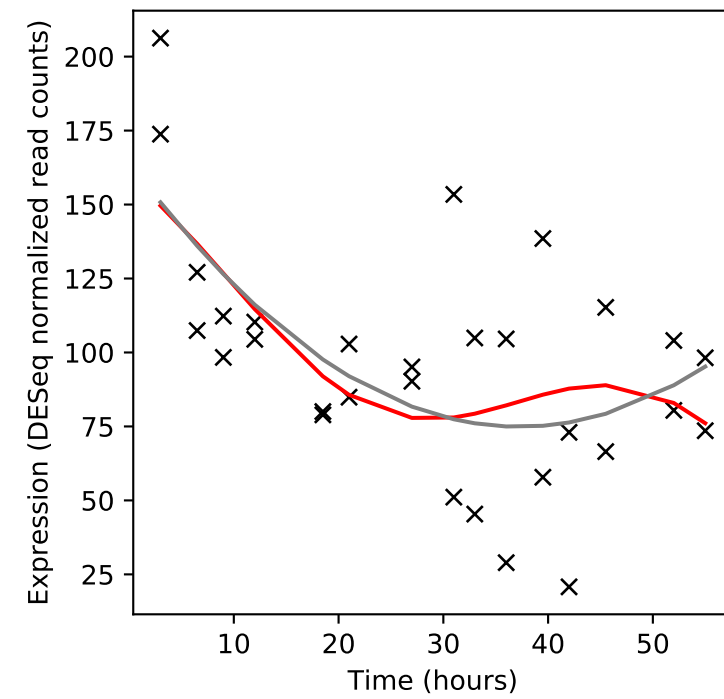
Rv1527c/pks5



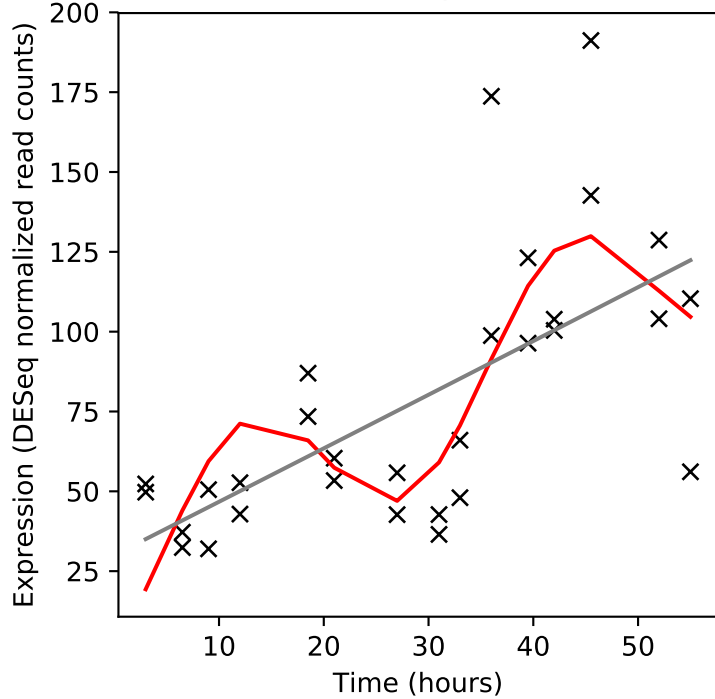
Rv1528c/papA4



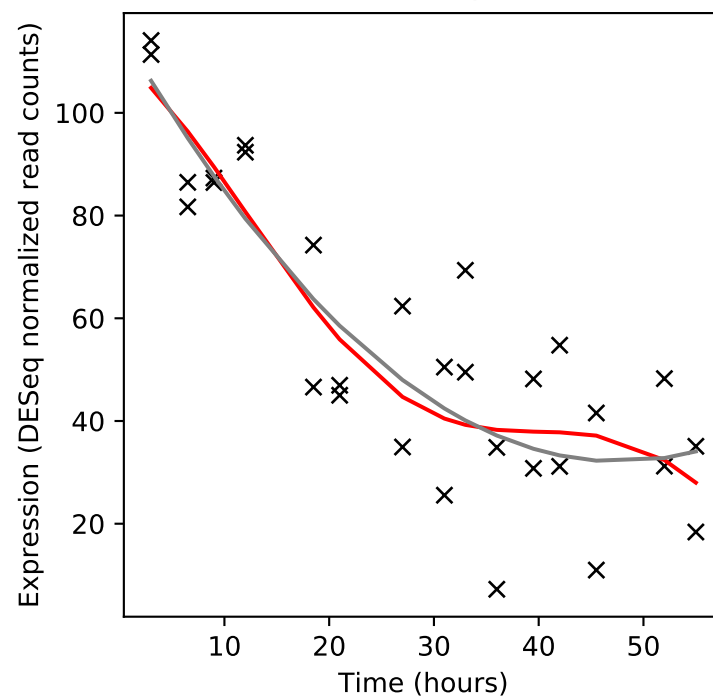
Rv1529/fadD24



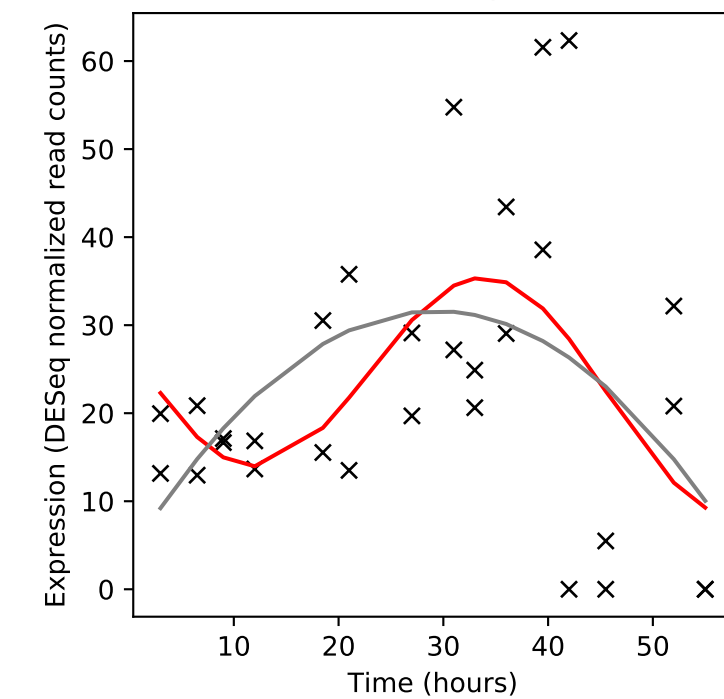
Rv1530/adh



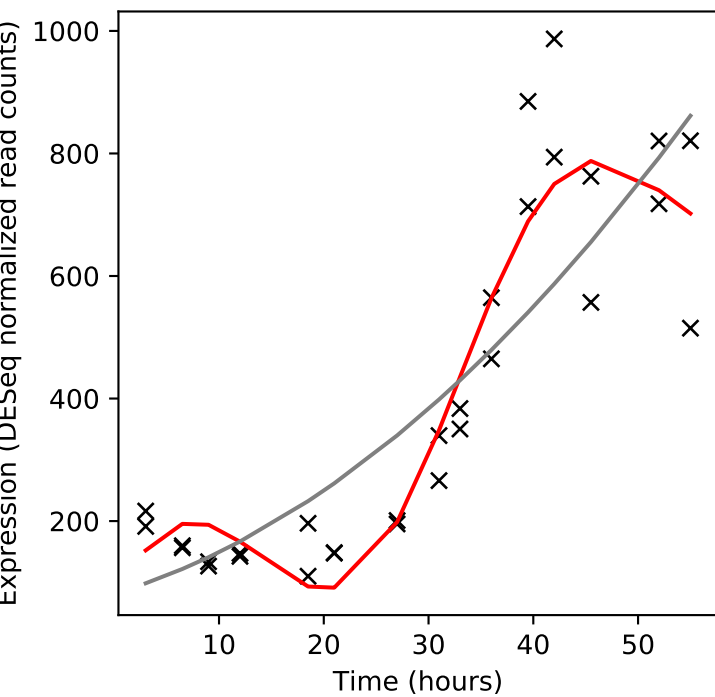
Rv1531/-



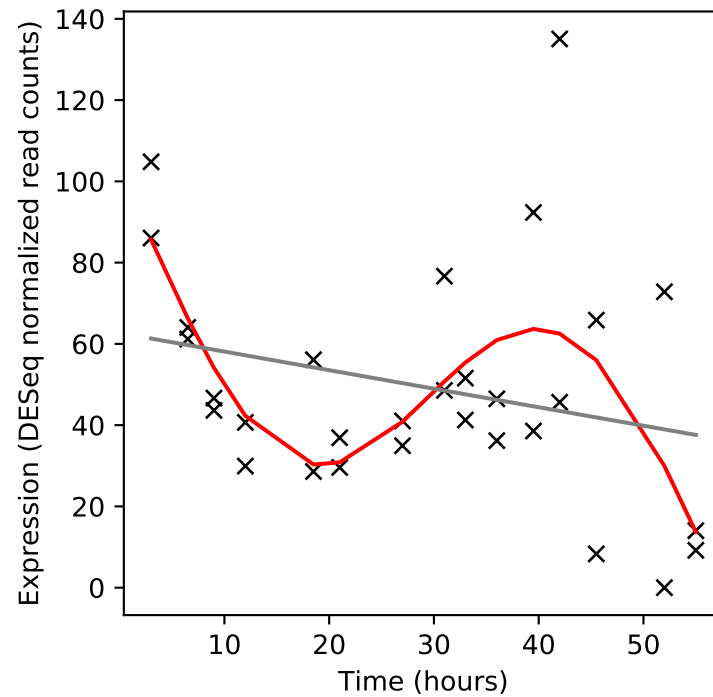
Rv1532c/-



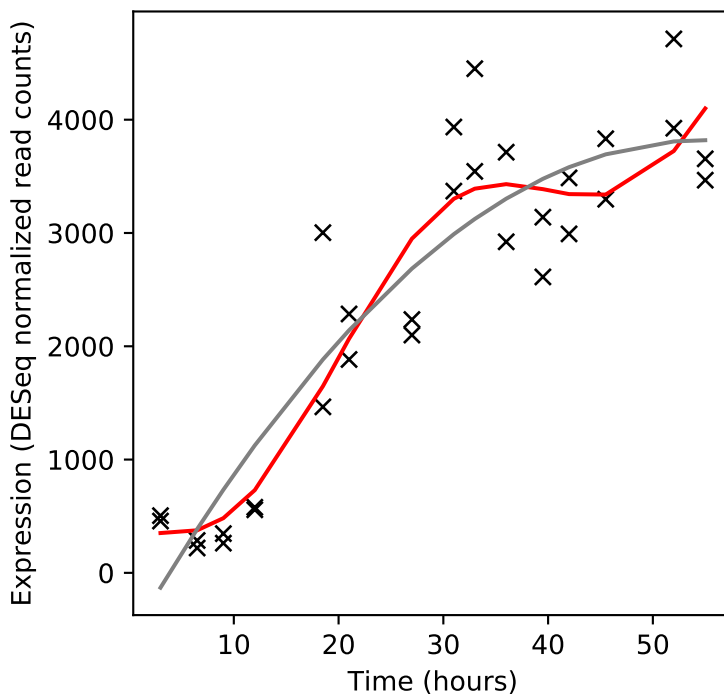
Rv1533/-



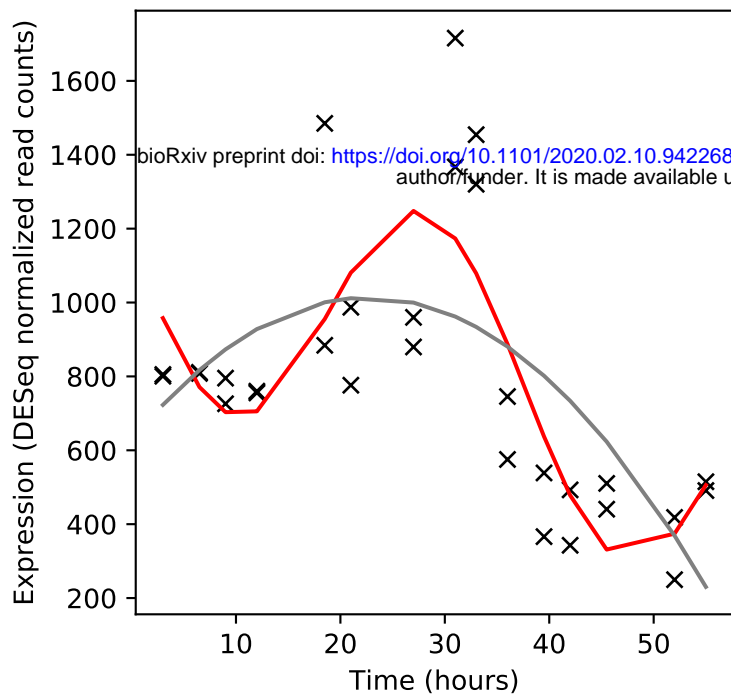
Rv1534/-



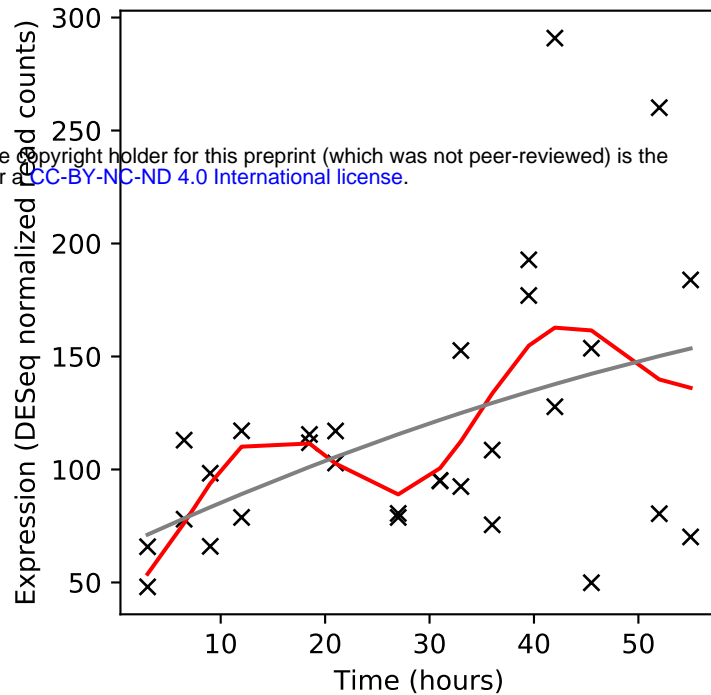
Rv1535/-



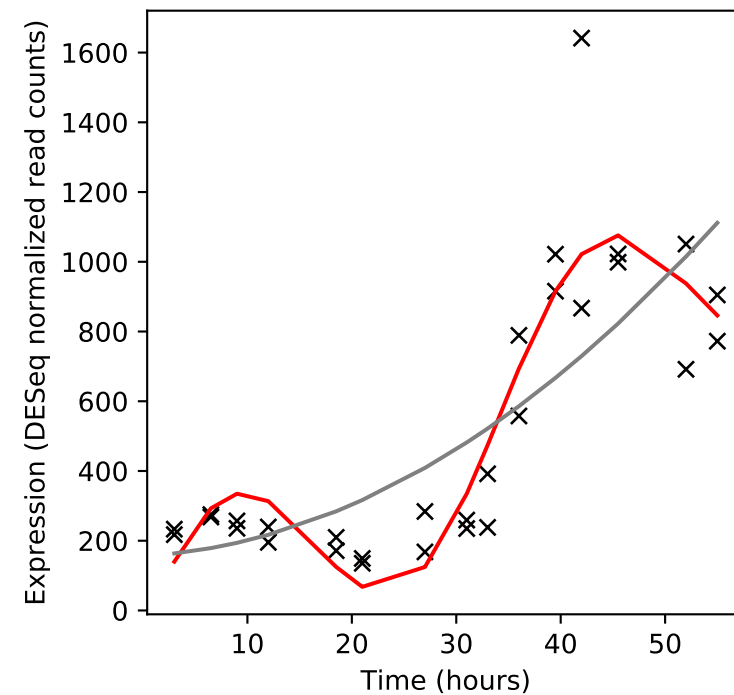
Rv1536/ileS



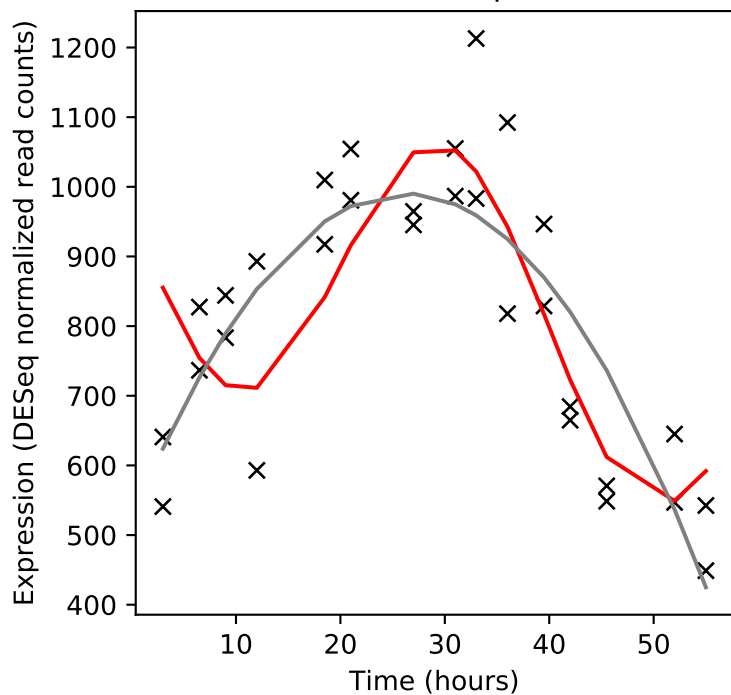
Rv1537/dinX



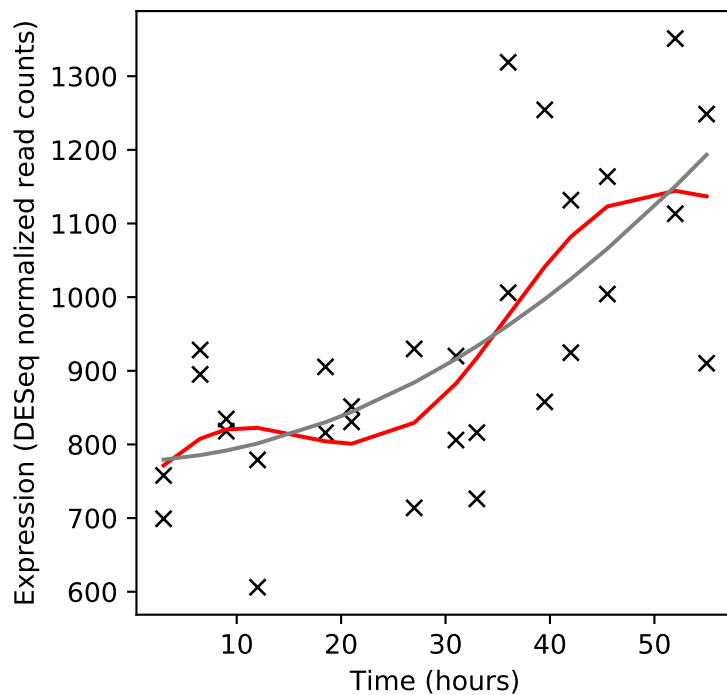
Rv1538c/ansA



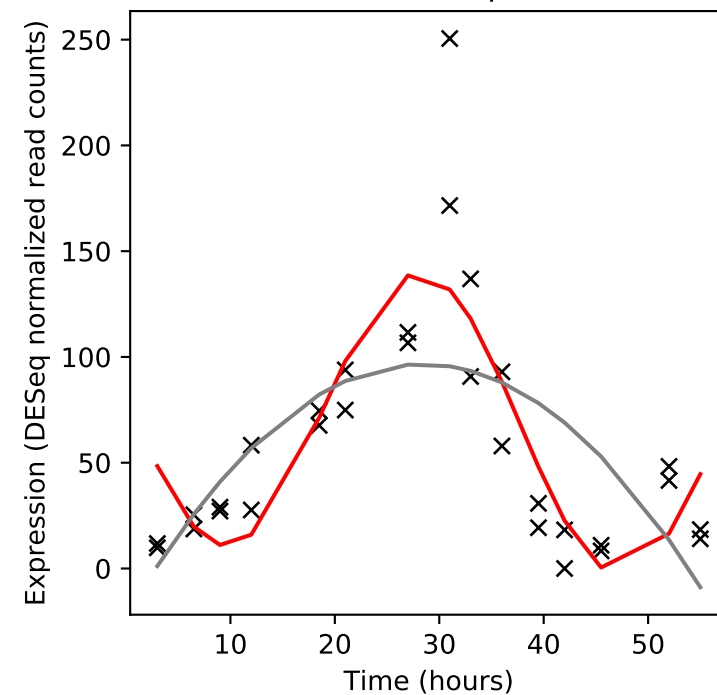
Rv1539/lspA



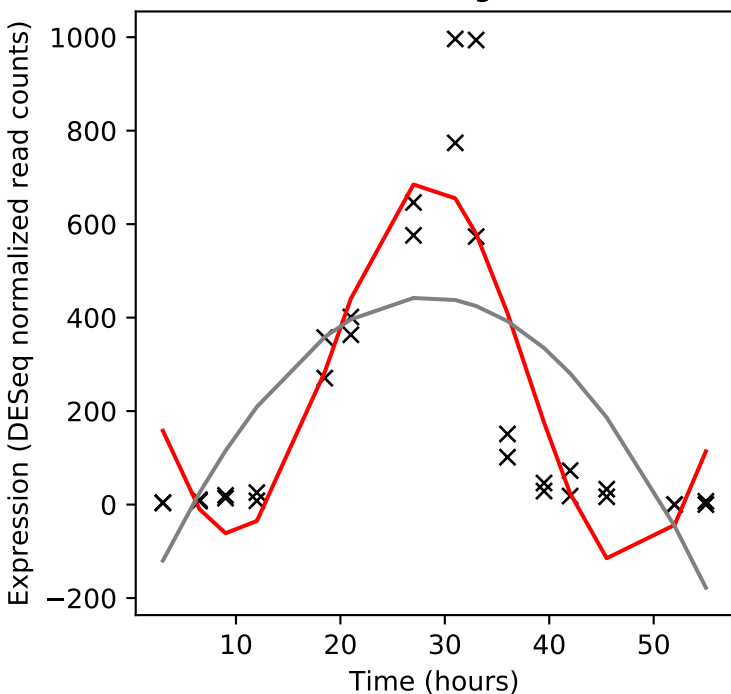
Rv1540/-



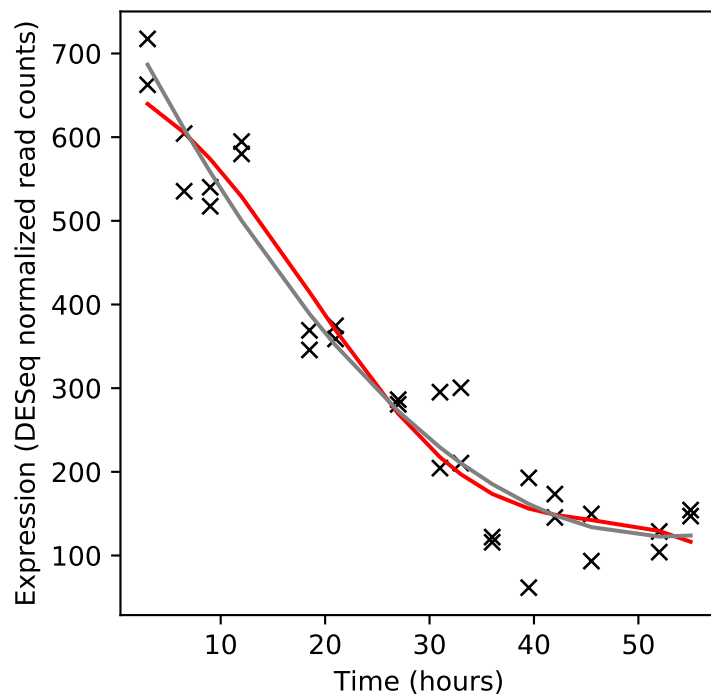
Rv1541c/lprI



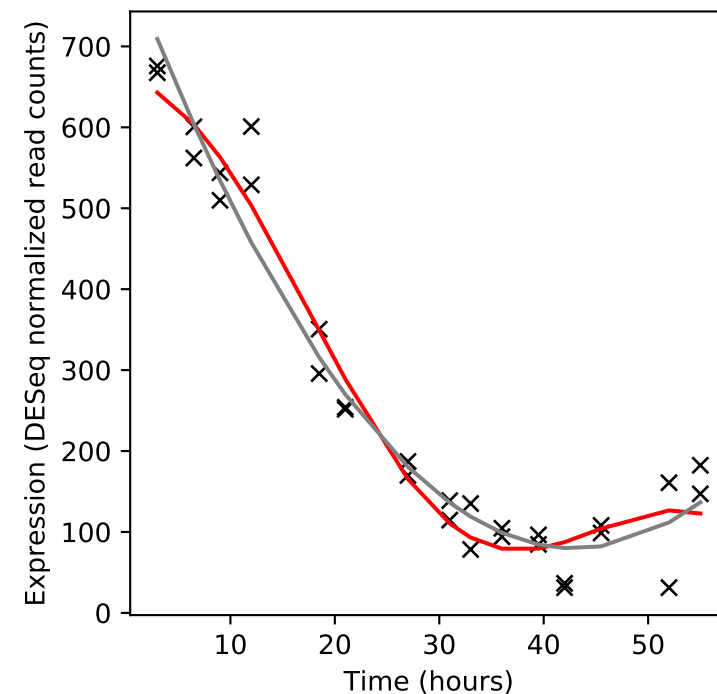
Rv1542c/glbN



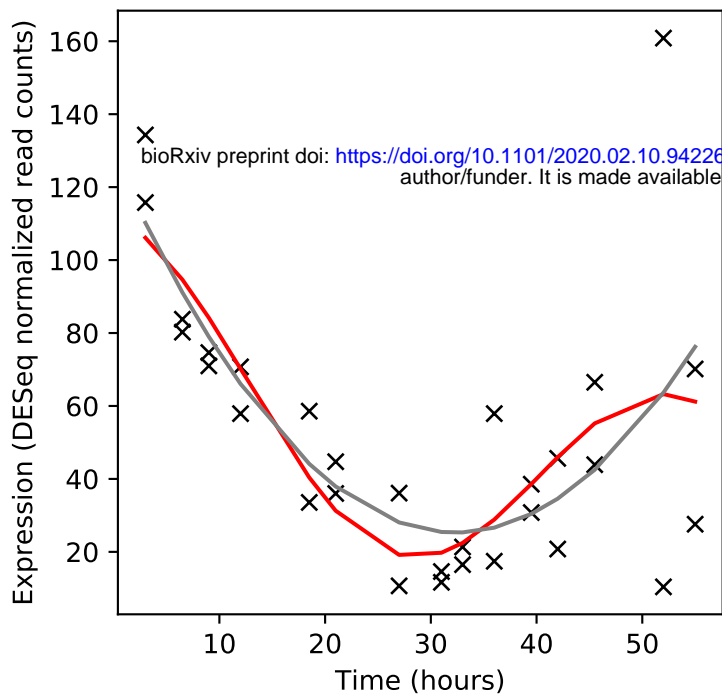
Rv1543/-



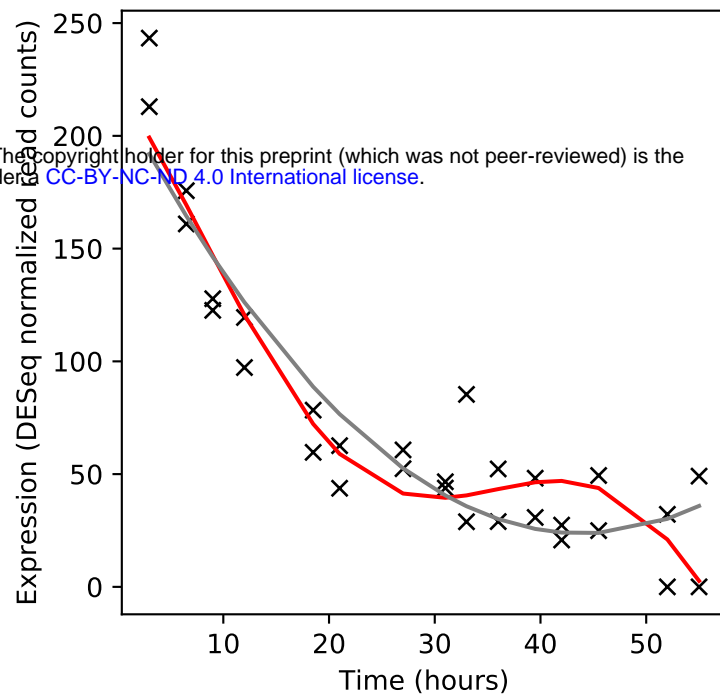
Rv1544/-



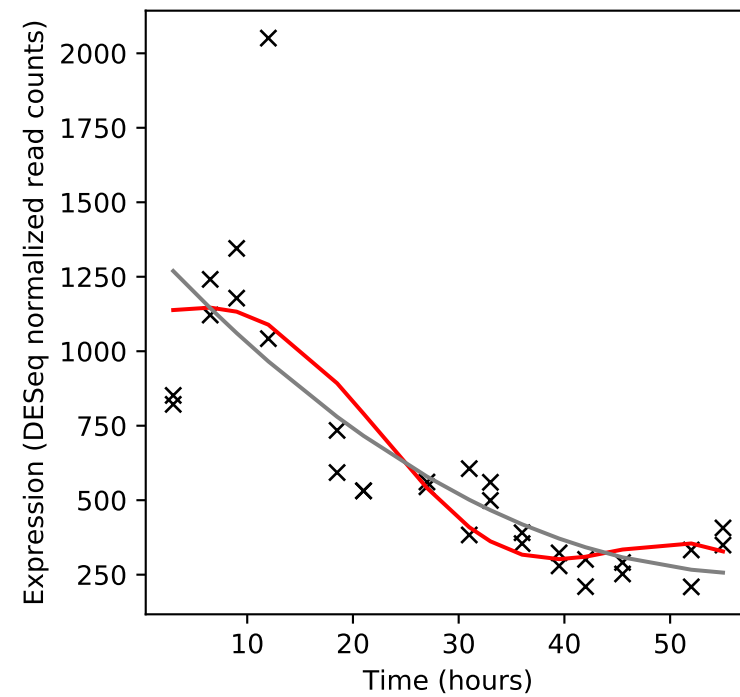
Rv1545/-



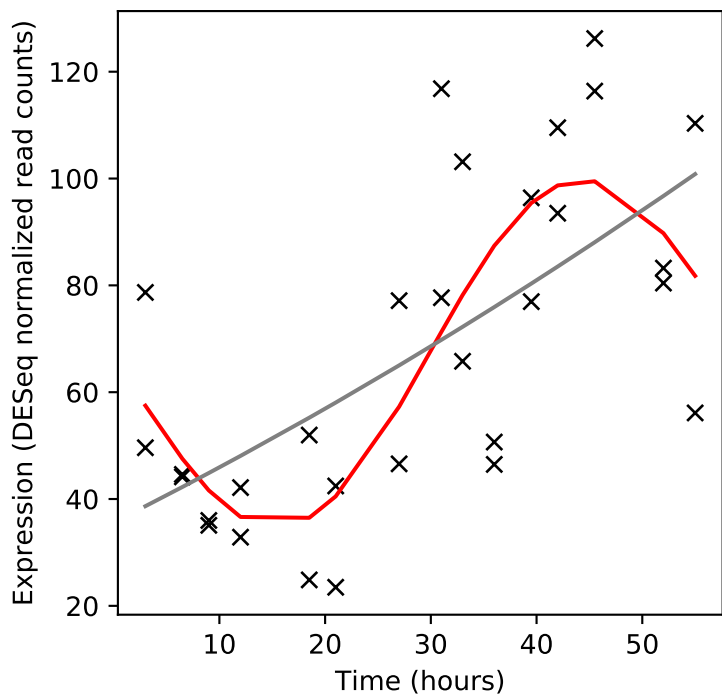
Rv1546/-



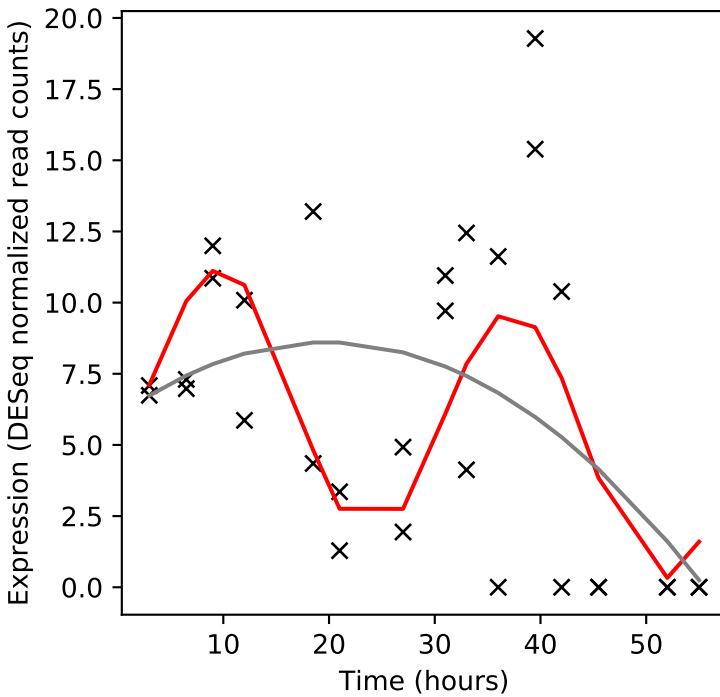
Rv1547/dnaE1



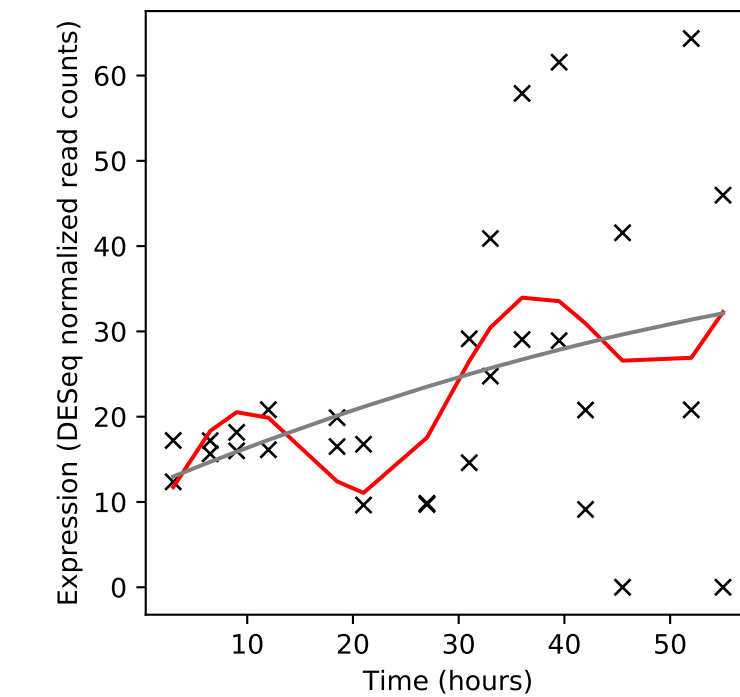
Rv1548c/PPE21



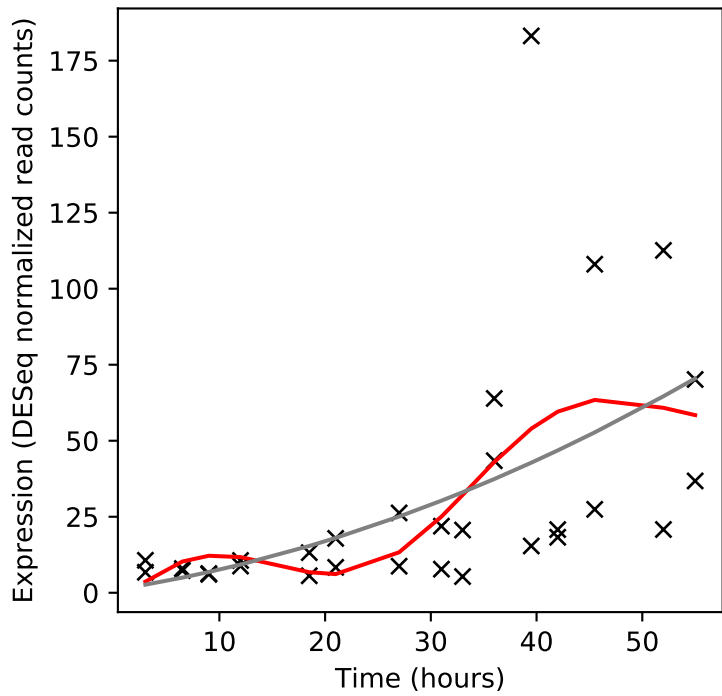
Rv1549/fadD11.1



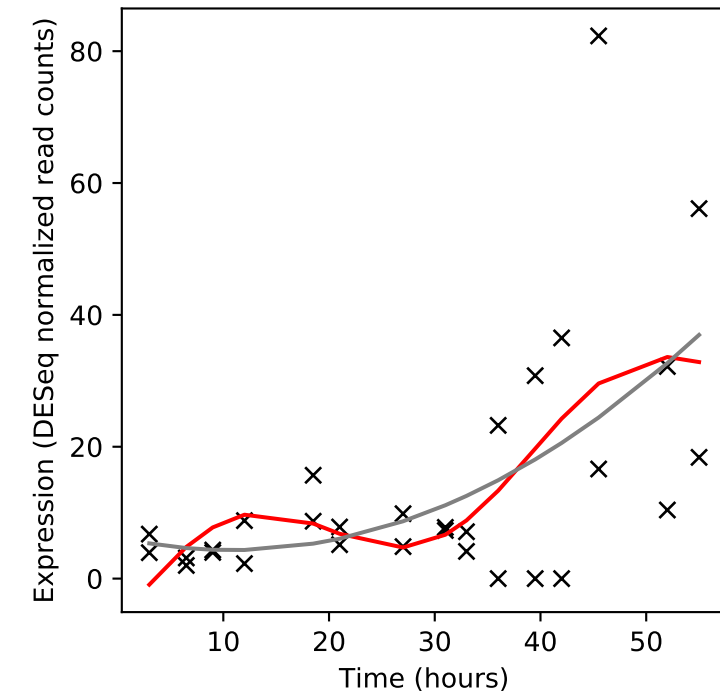
Rv1550/fadD11



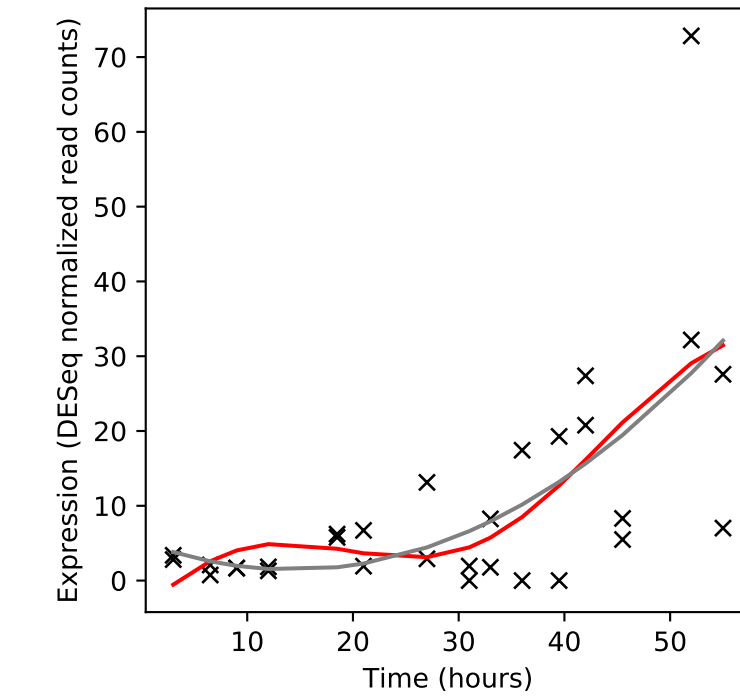
Rv1551/plsB1



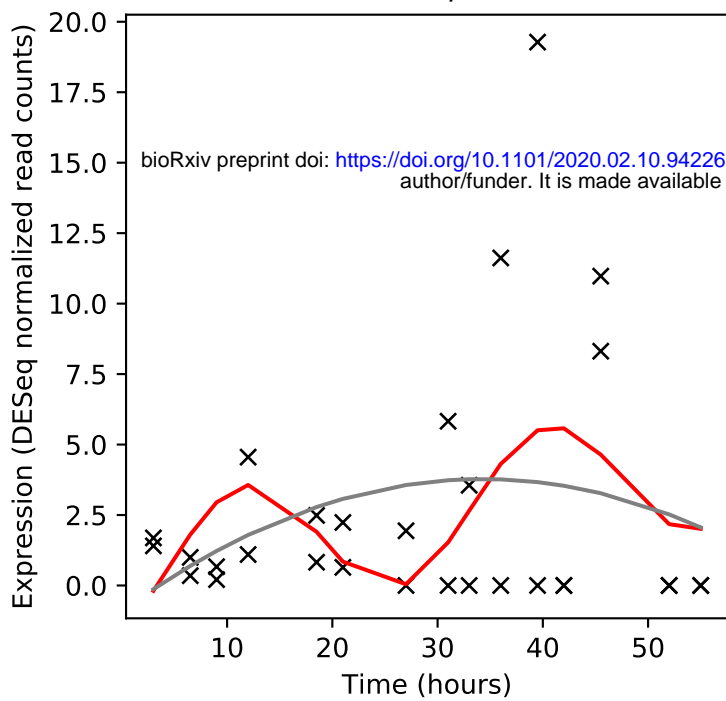
Rv1552/frdA



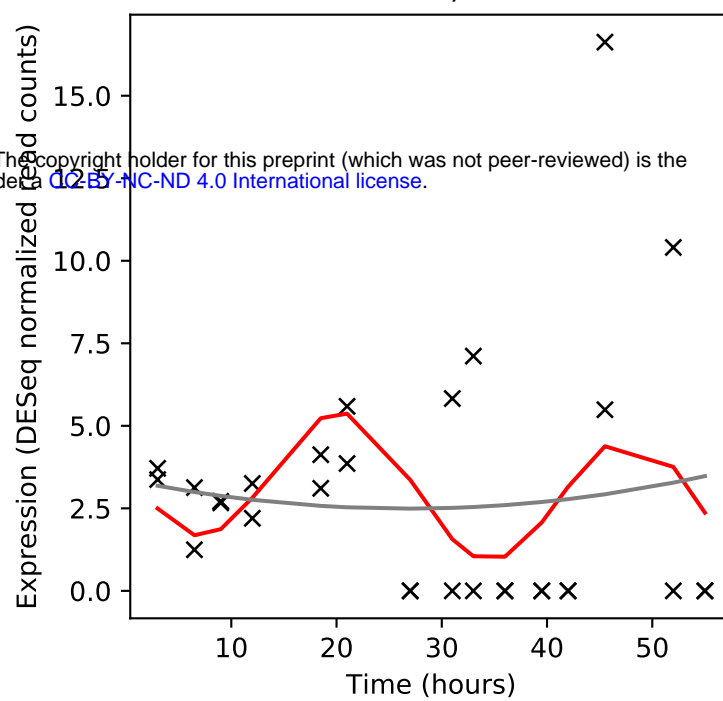
Rv1553/frdB



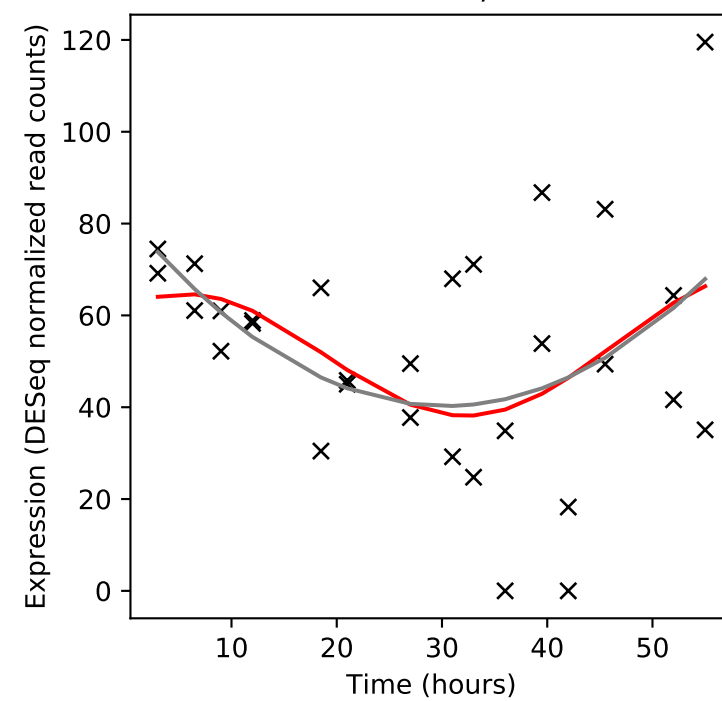
Rv1554/frdC



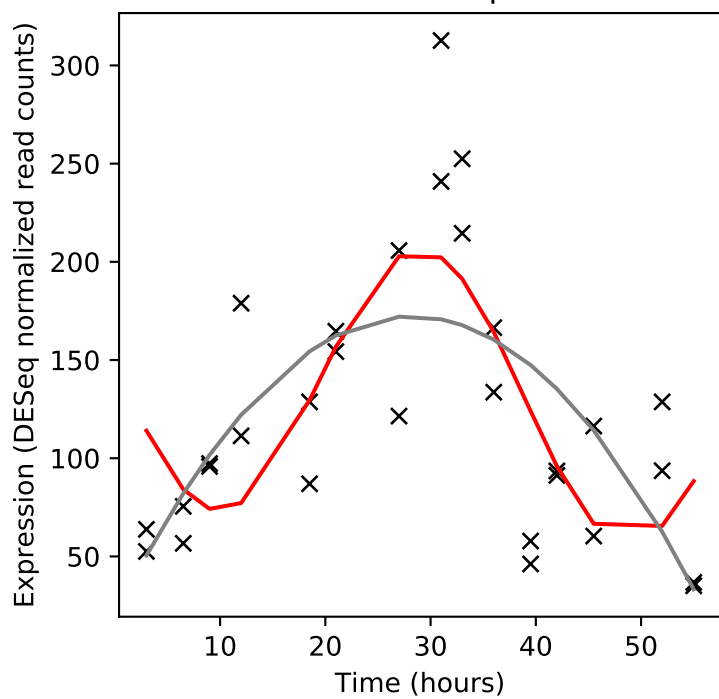
Rv1555/frdD



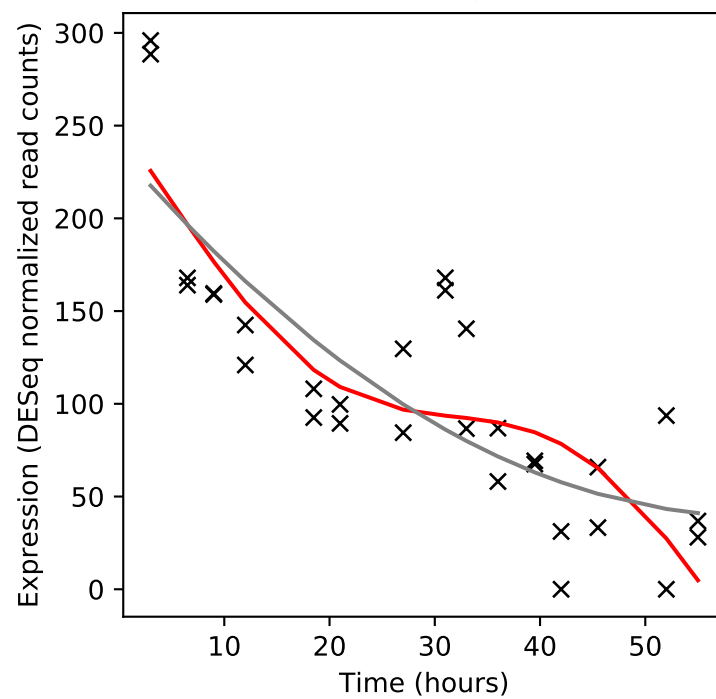
Rv1556/-



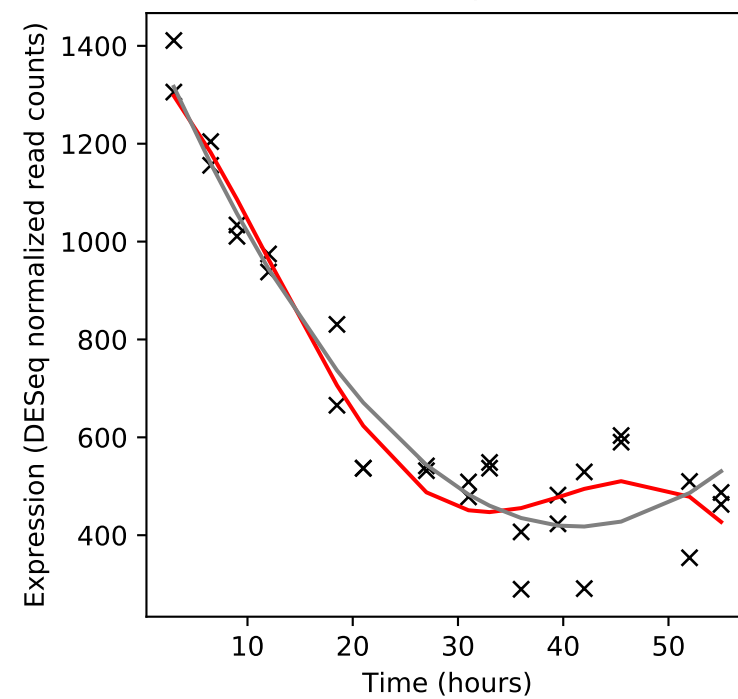
Rv1557/mmpL6



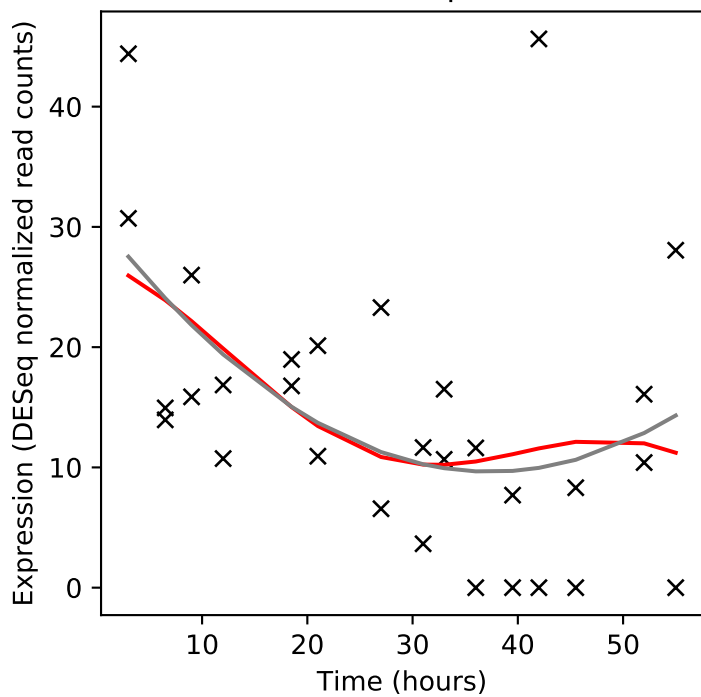
Rv1558/-



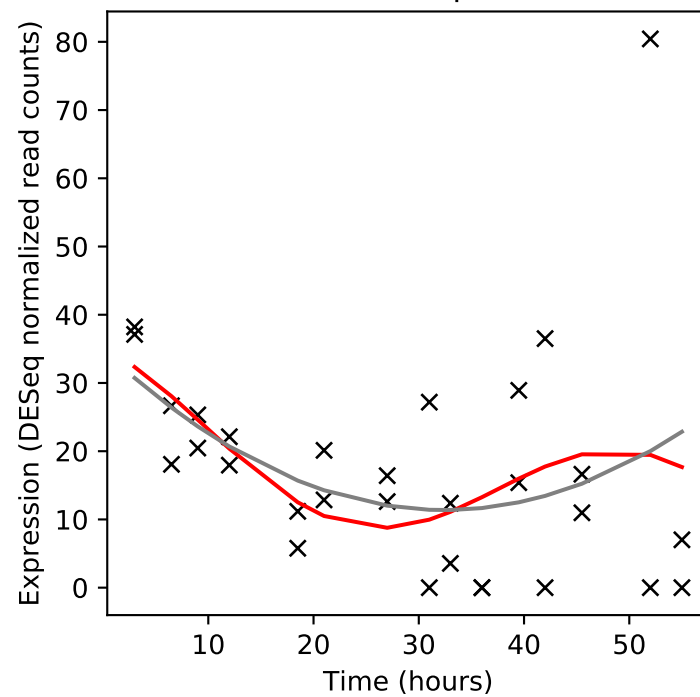
Rv1559/ilvA



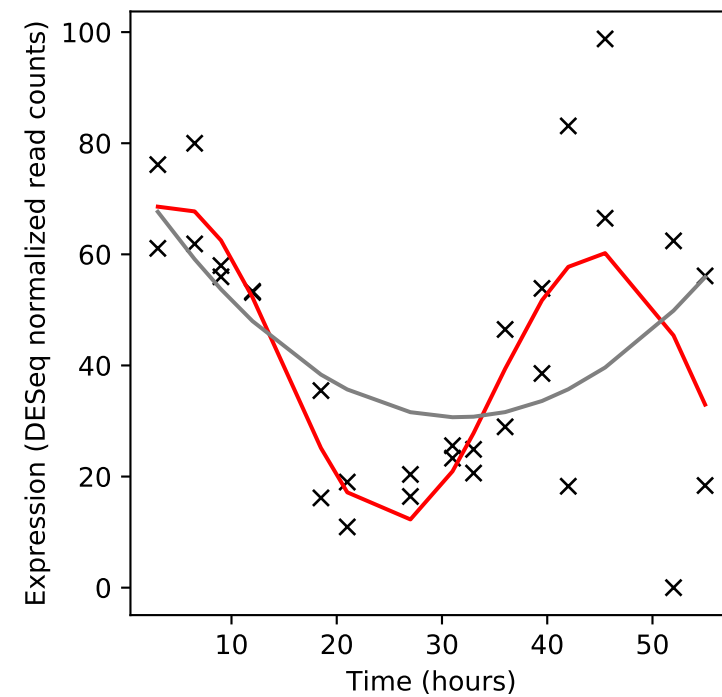
Rv1560/vapB11



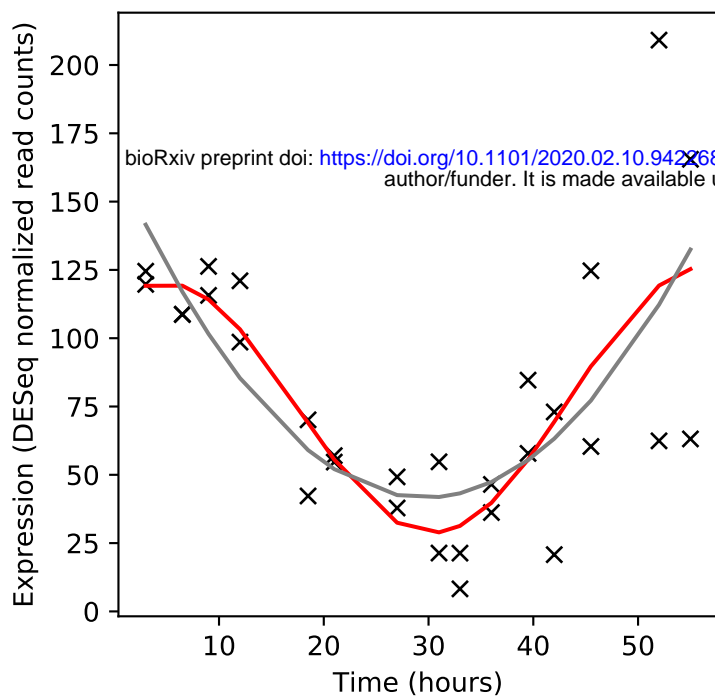
Rv1561/vapC11



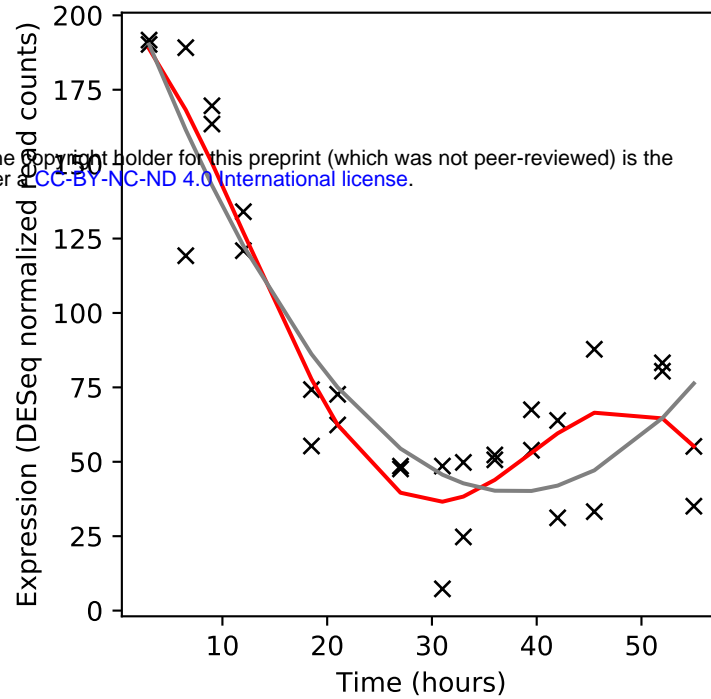
Rv1562c/treZ



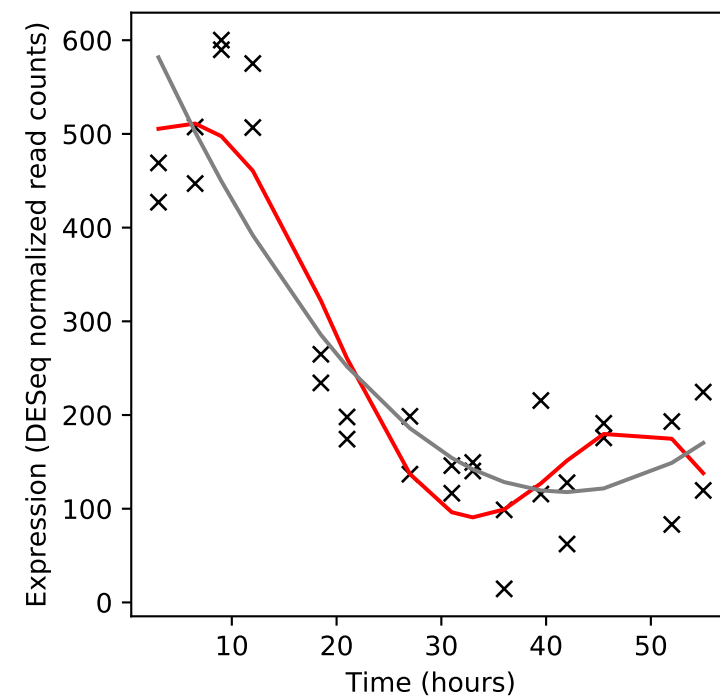
Rv1563c/treY



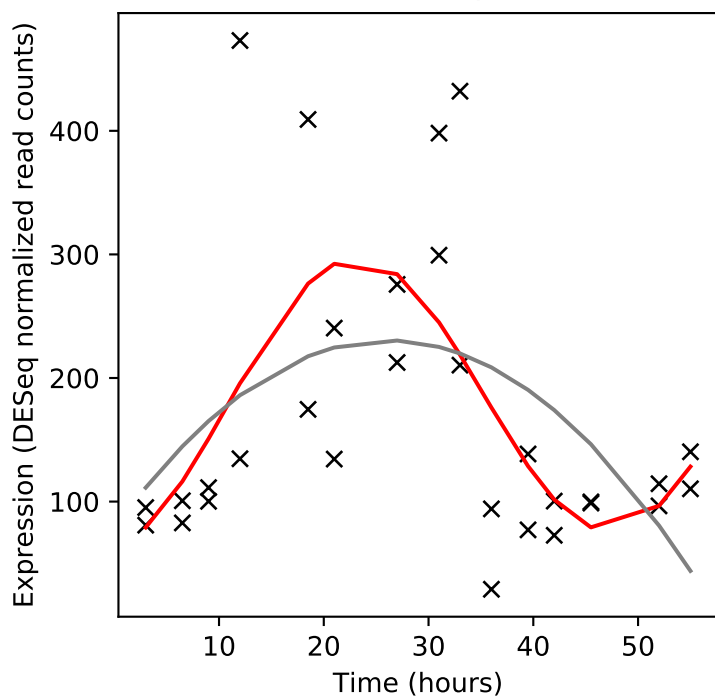
Rv1564c/treX



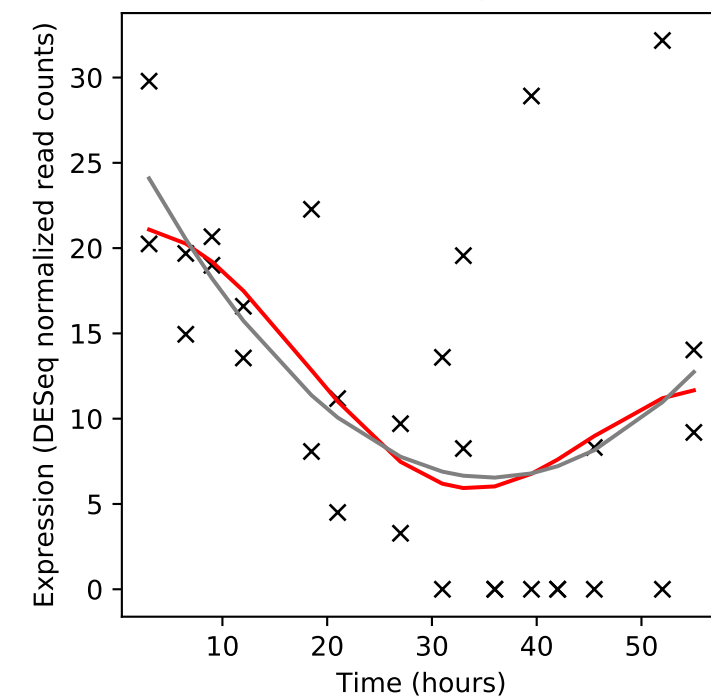
Rv1565c/-



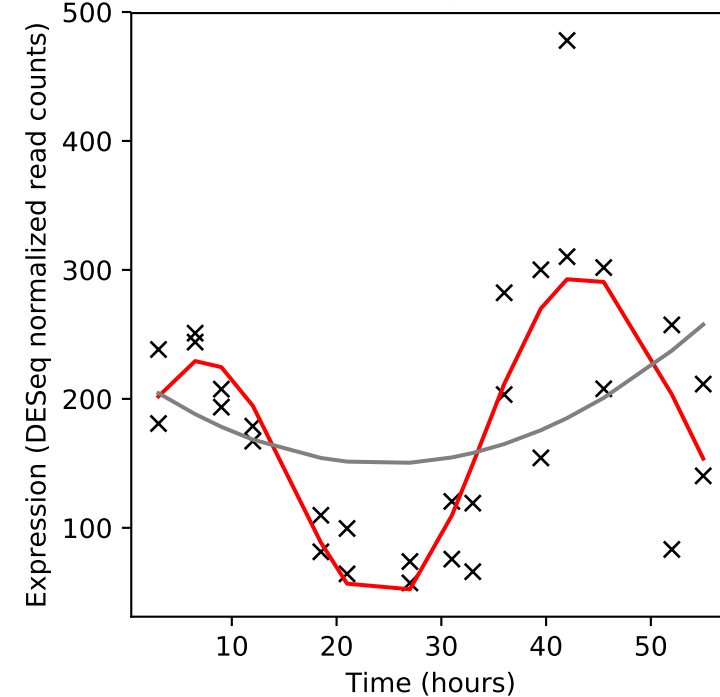
Rv1566c/-



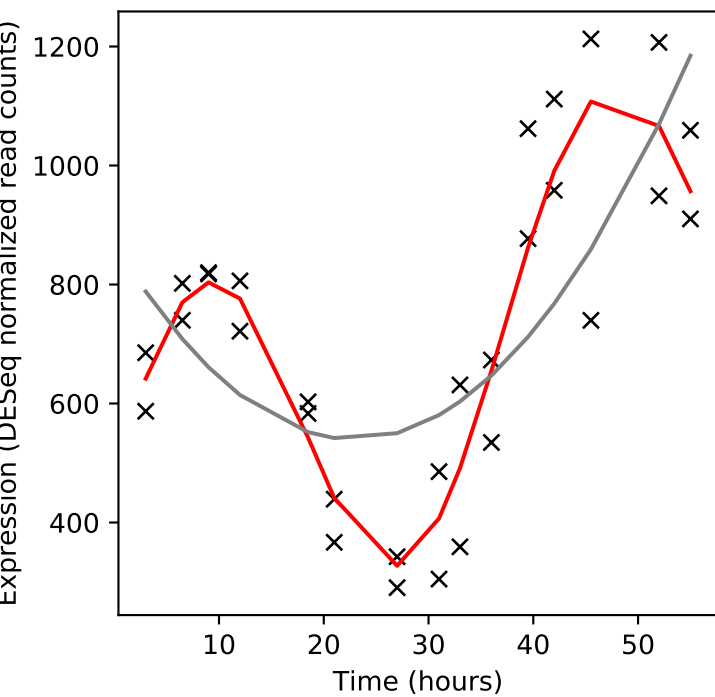
Rv1567c/-



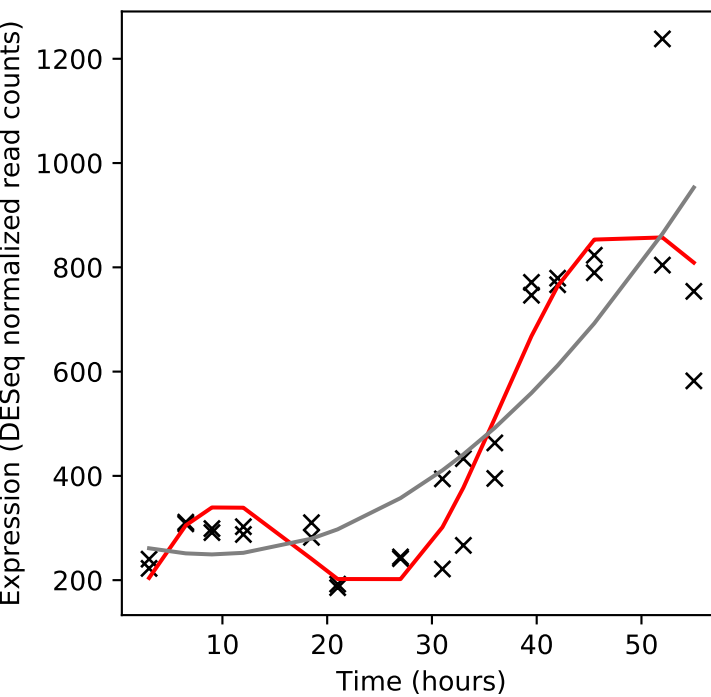
Rv1568/bioA



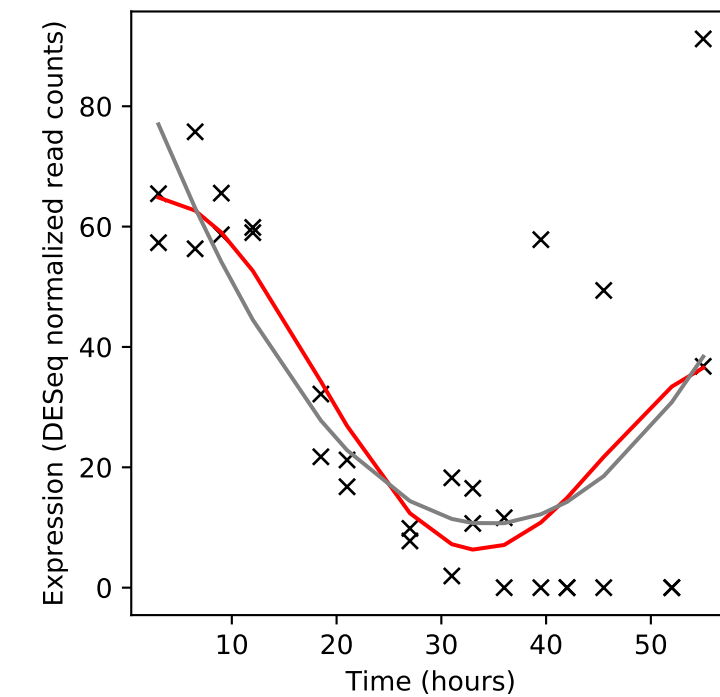
Rv1569/bioF1



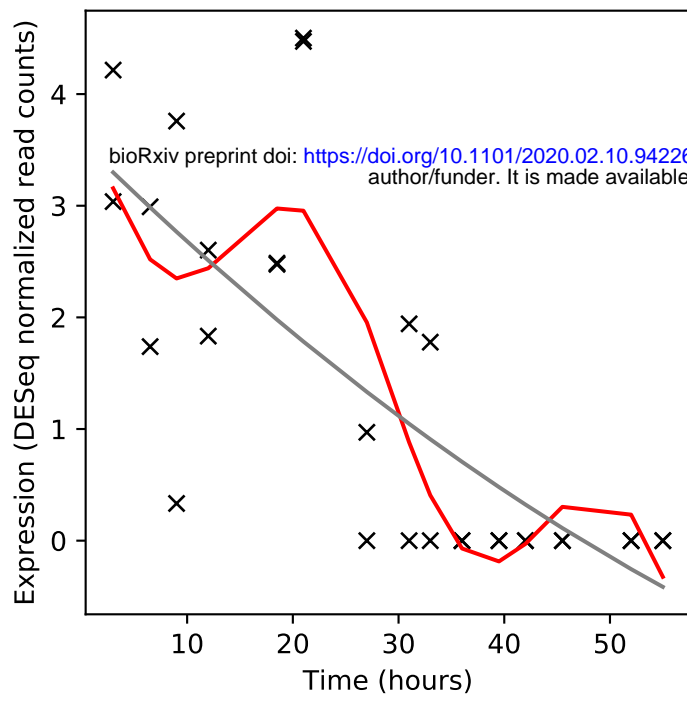
Rv1570/bioD



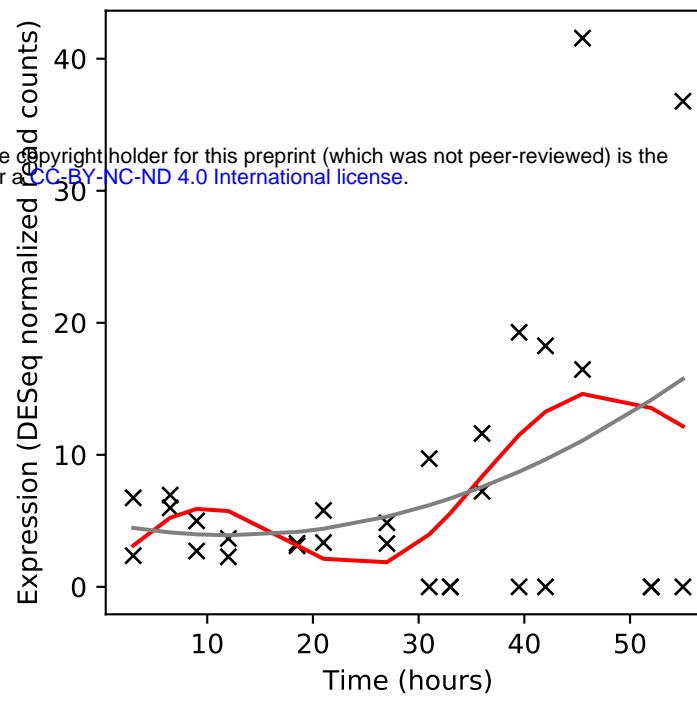
Rv1571/-



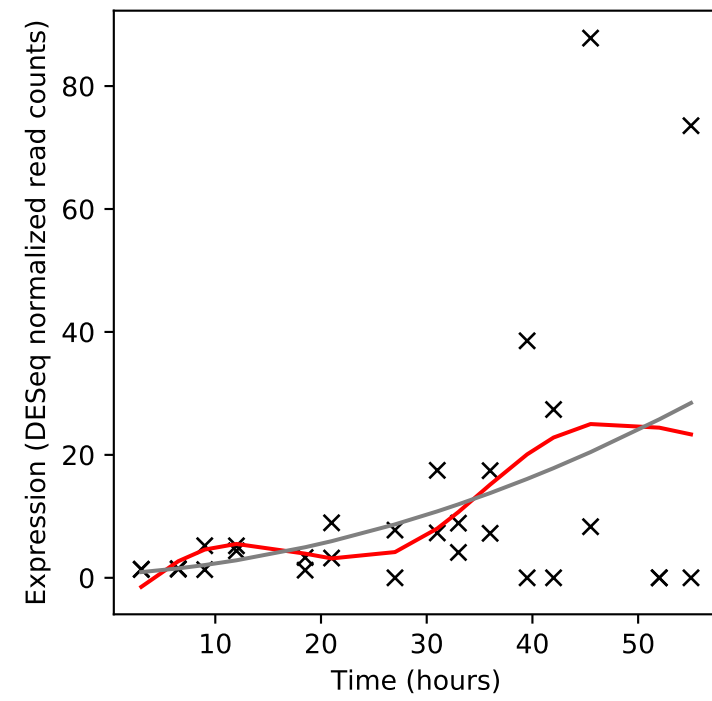
Rv1572c/-



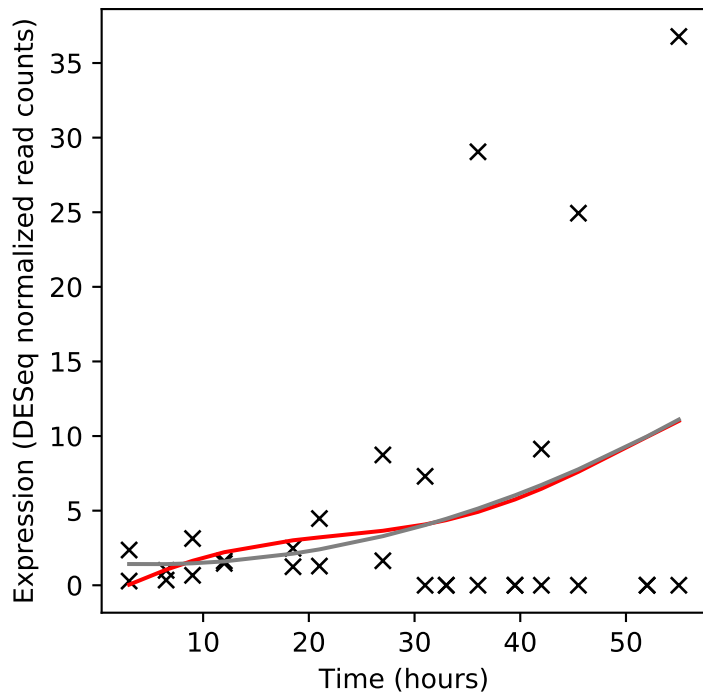
Rv1573/-



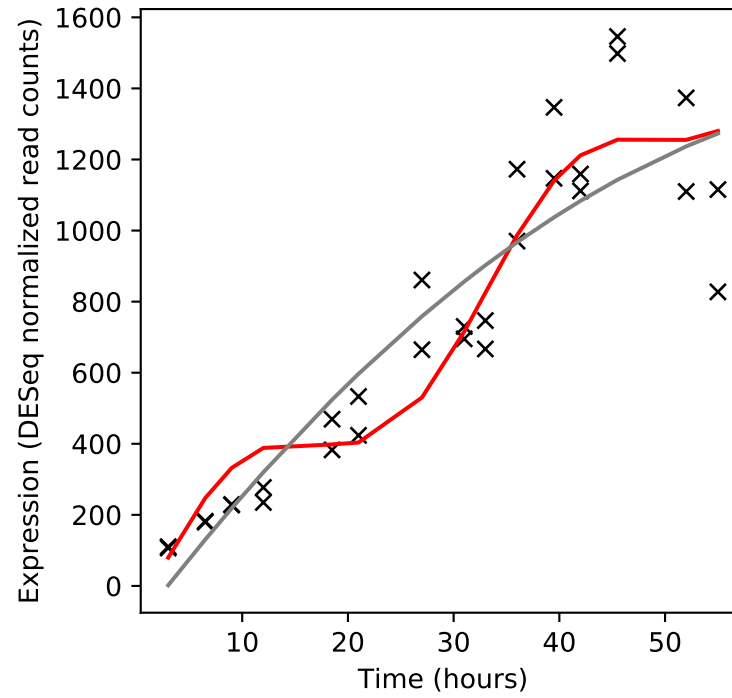
Rv1574/-



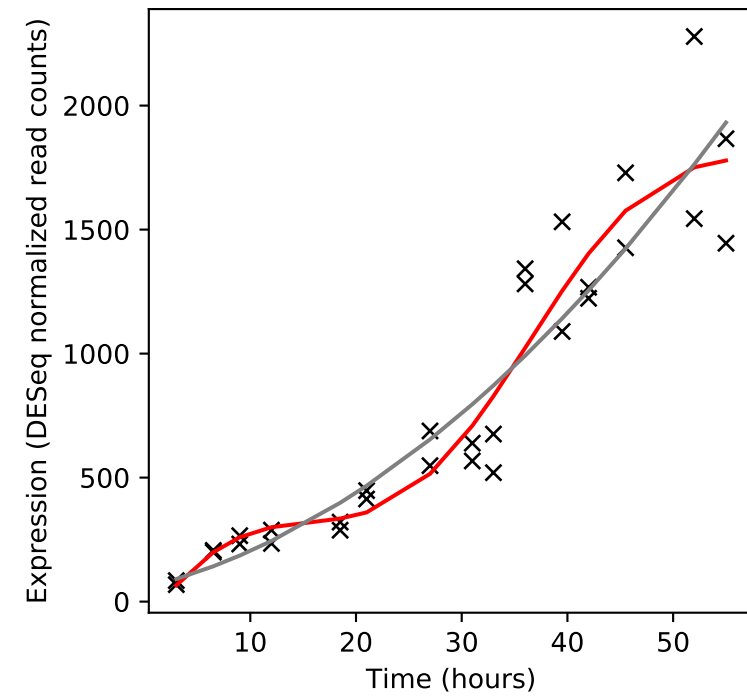
Rv1575/-



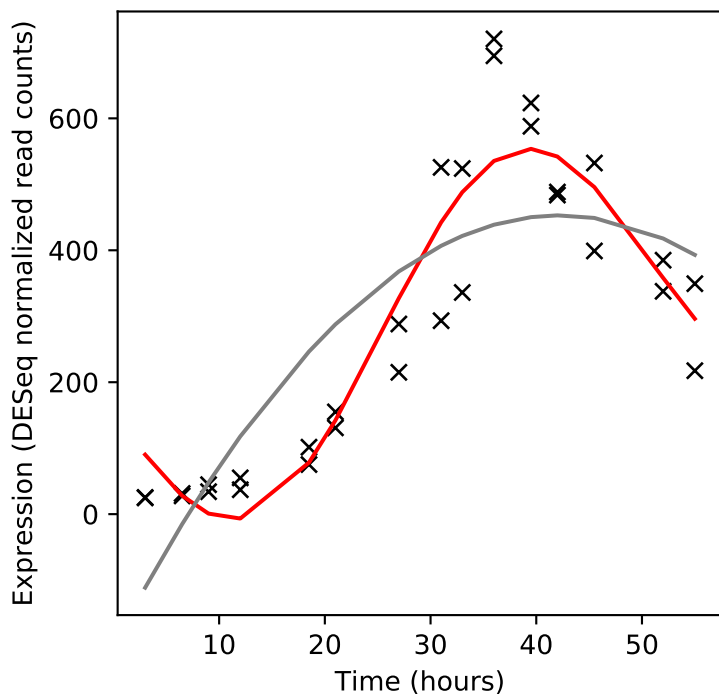
Rv1576c/-



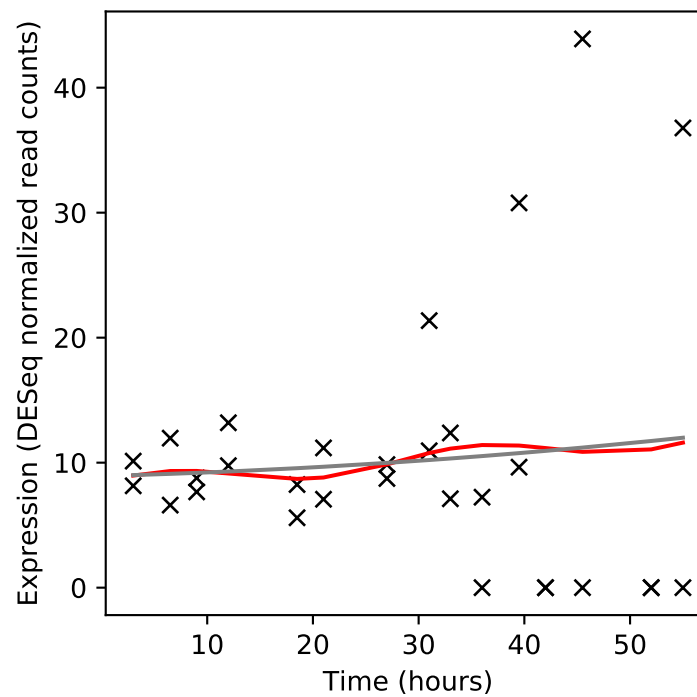
Rv1577c/-



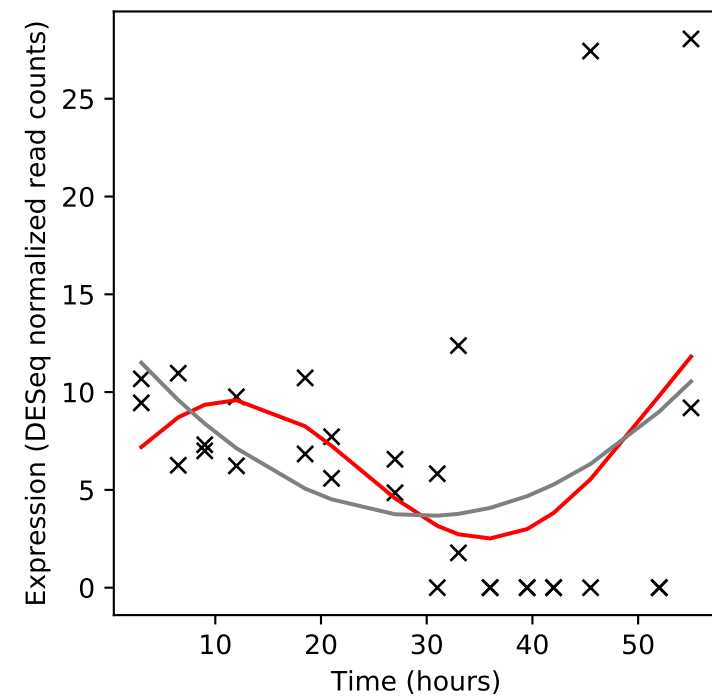
Rv1578c/-



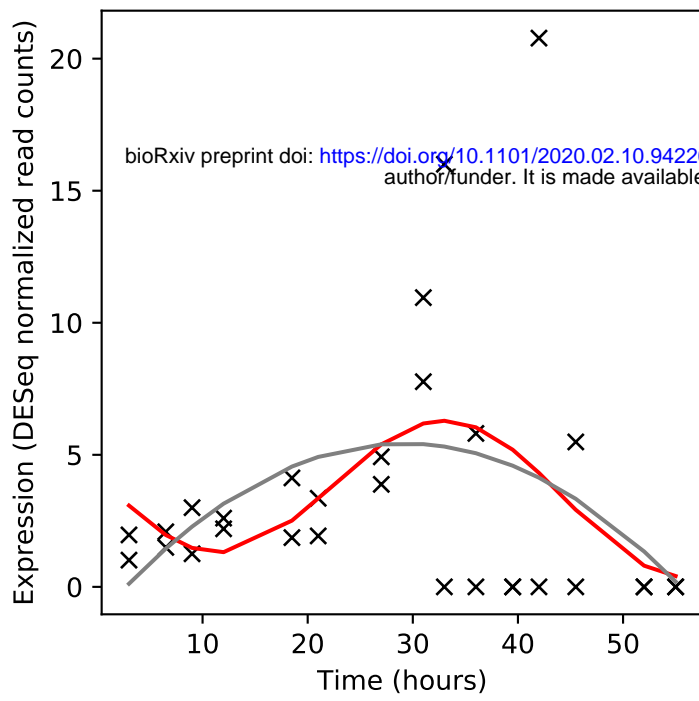
Rv1579c/-



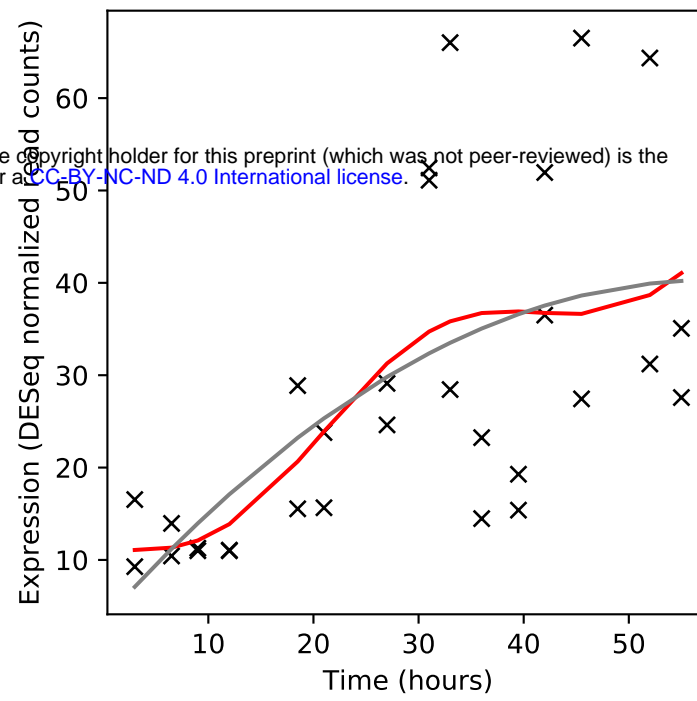
Rv1580c/-



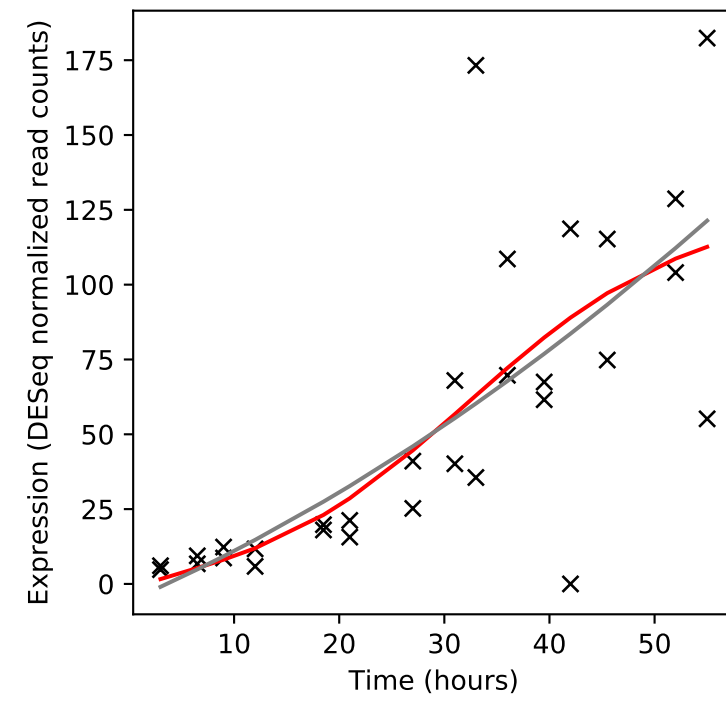
Rv1581c/-



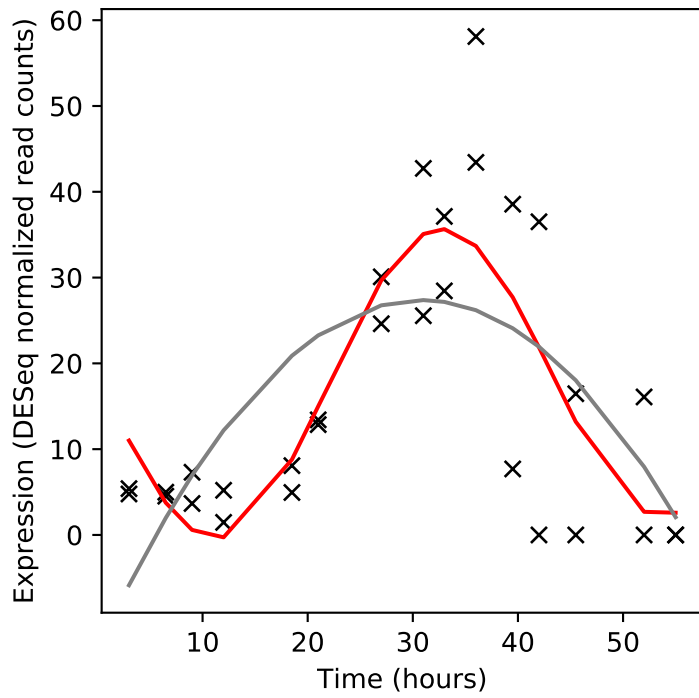
Rv1582c/-



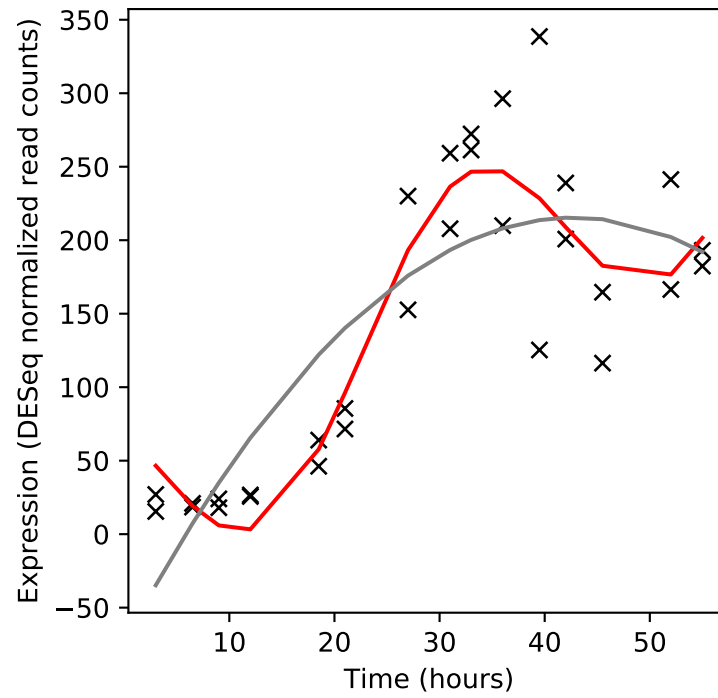
Rv1583c/-



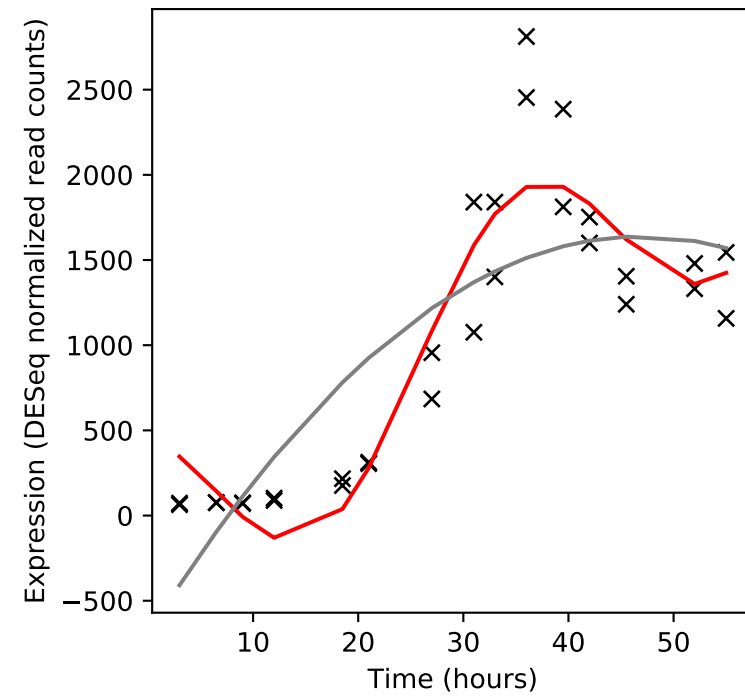
Rv1584c/-



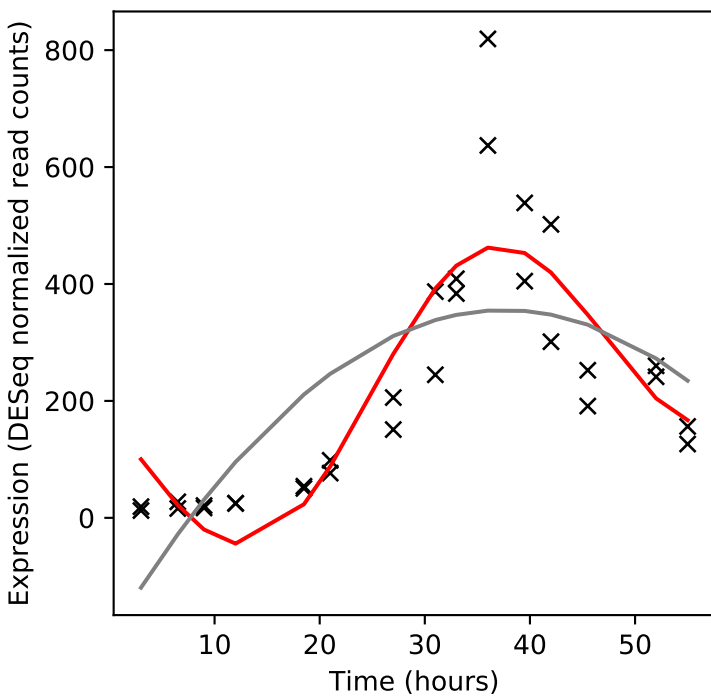
Rv1585c/-



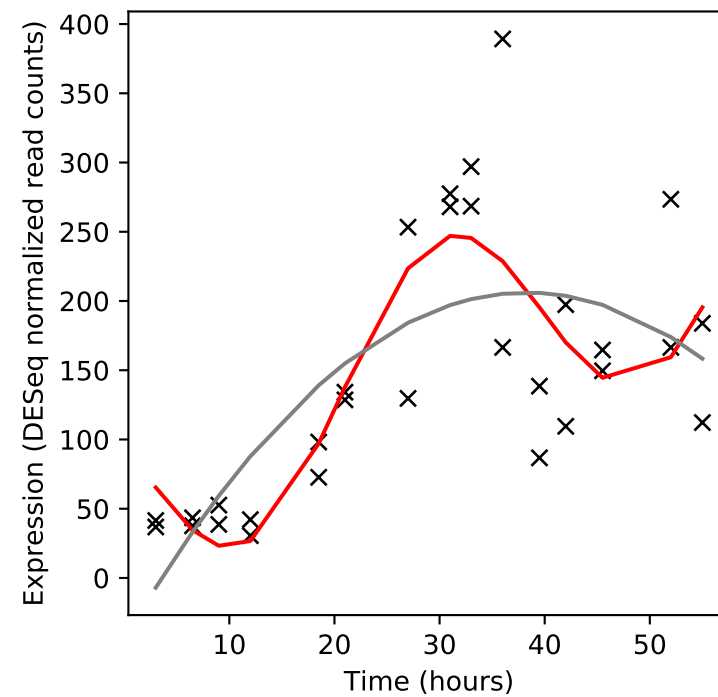
Rv1586c/-



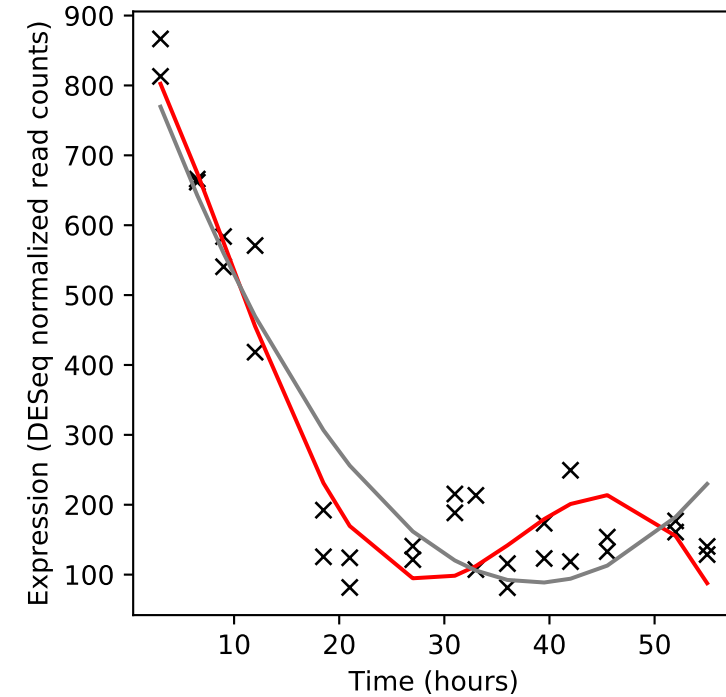
Rv1587c/-



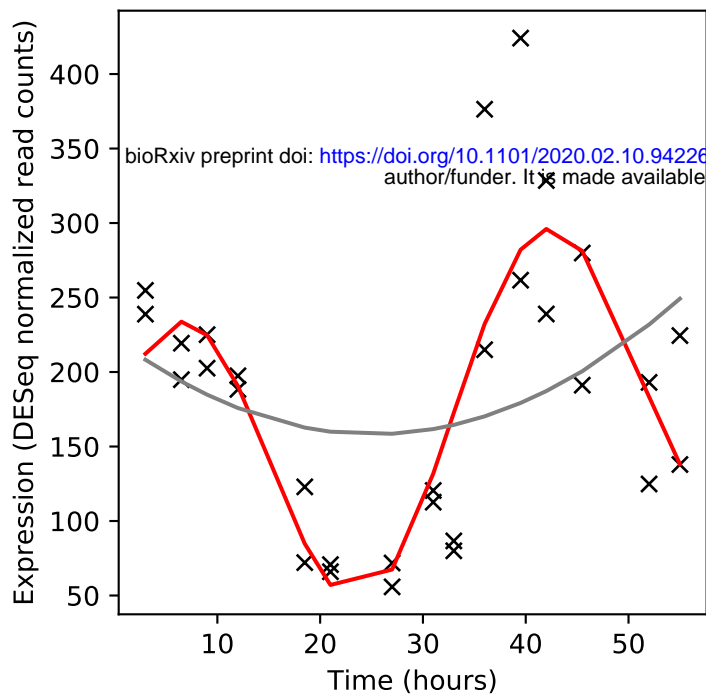
Rv1588c/-



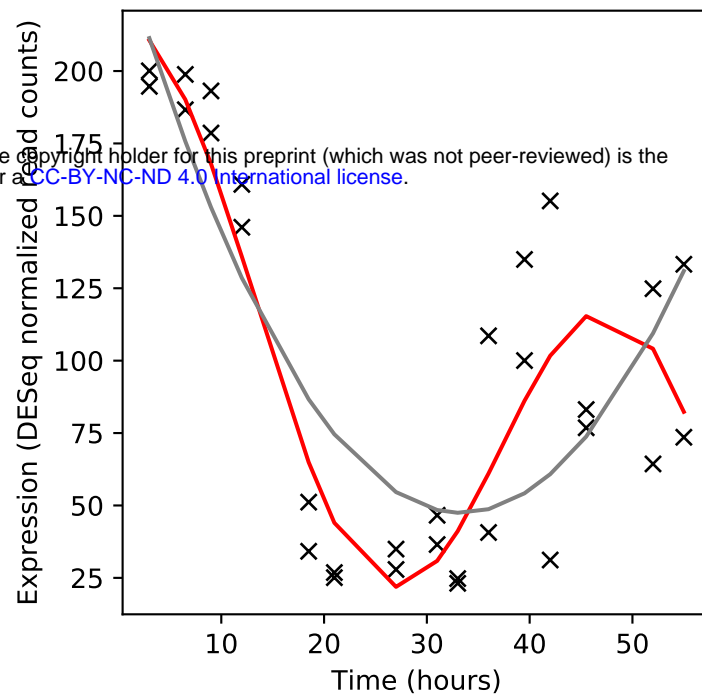
Rv1589/bioB



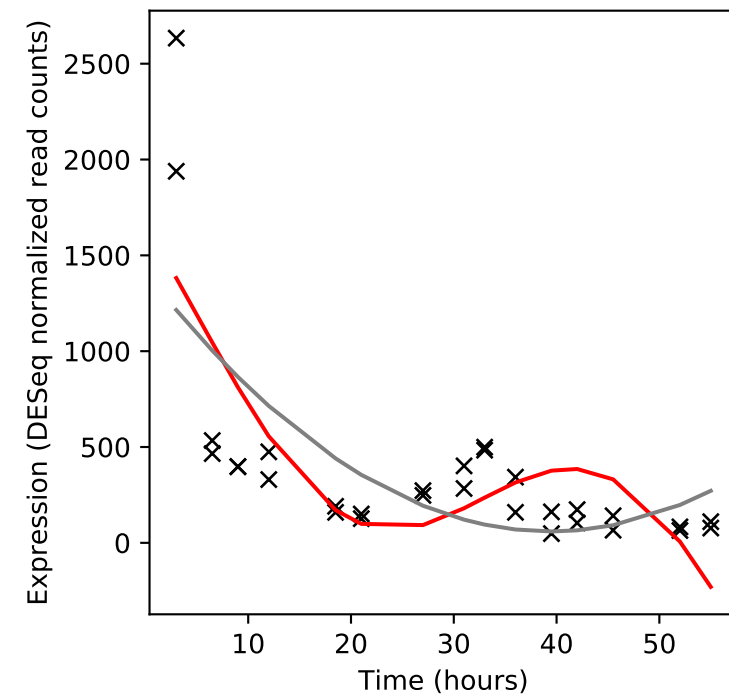
Rv1590/-



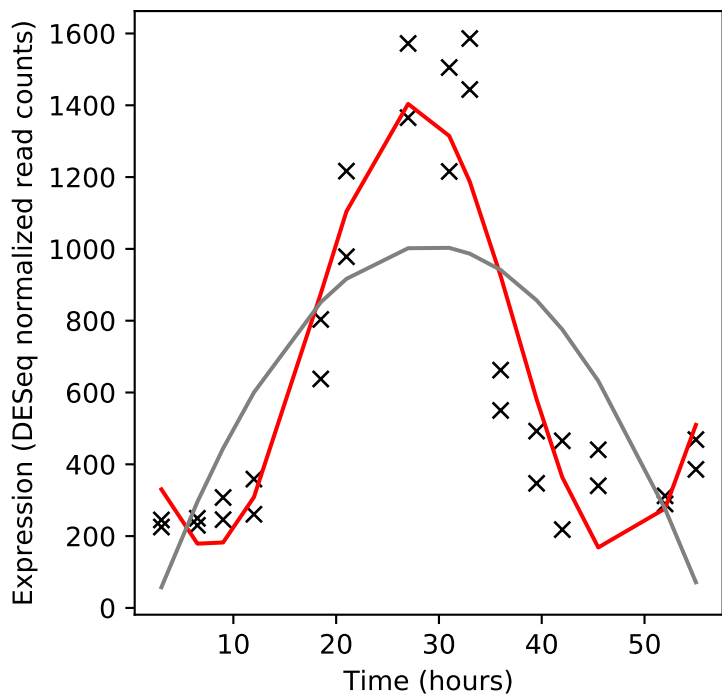
Rv1591/-



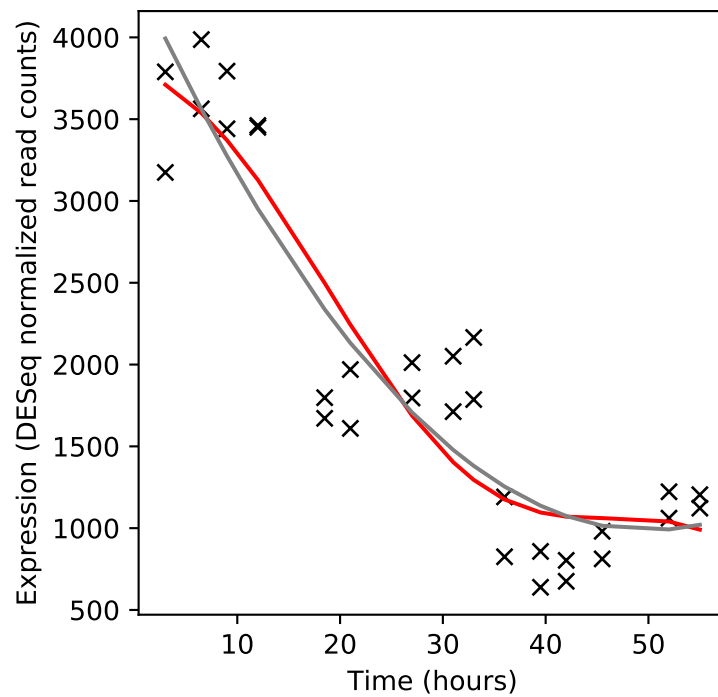
Rv1592c/-



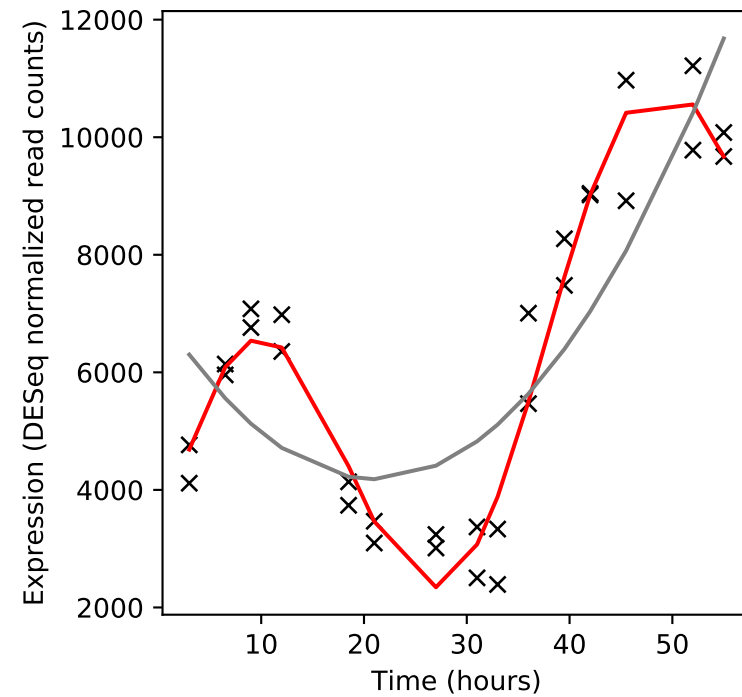
Rv1593c/-



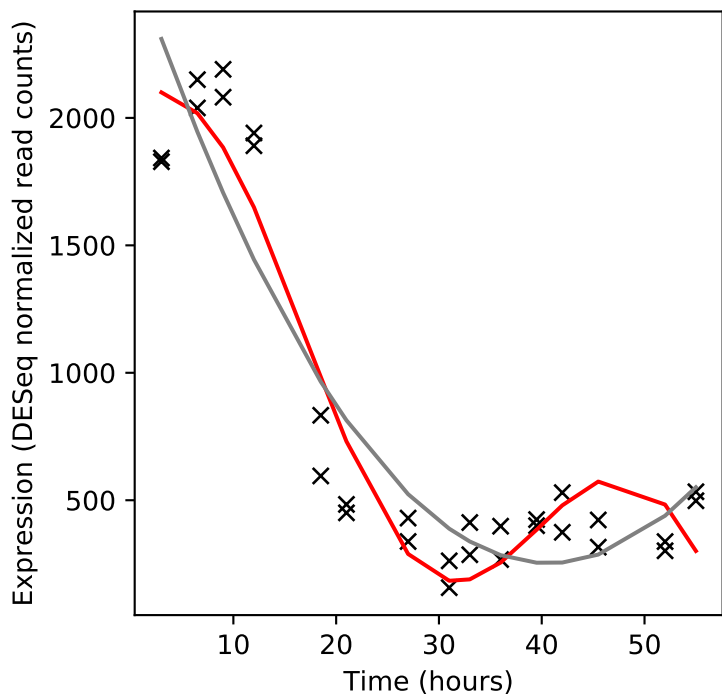
Rv1594/nadA



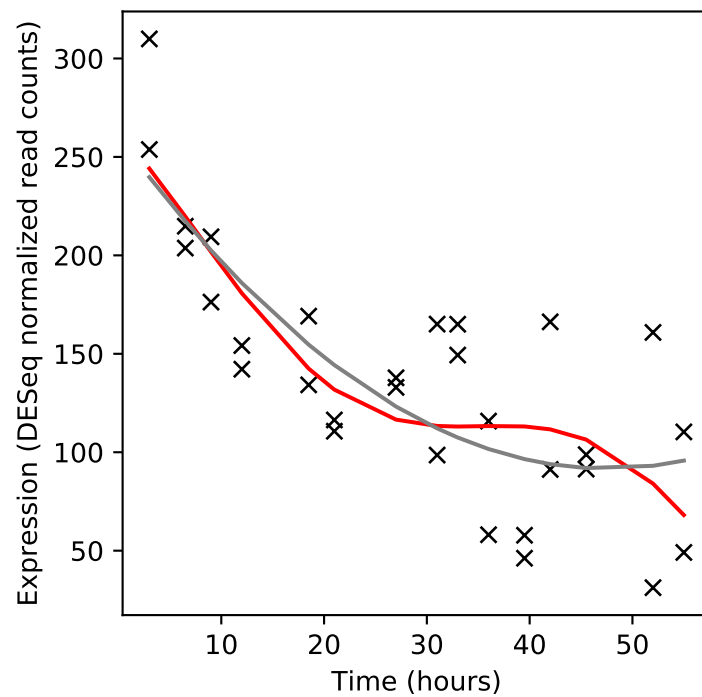
Rv1595/nadB



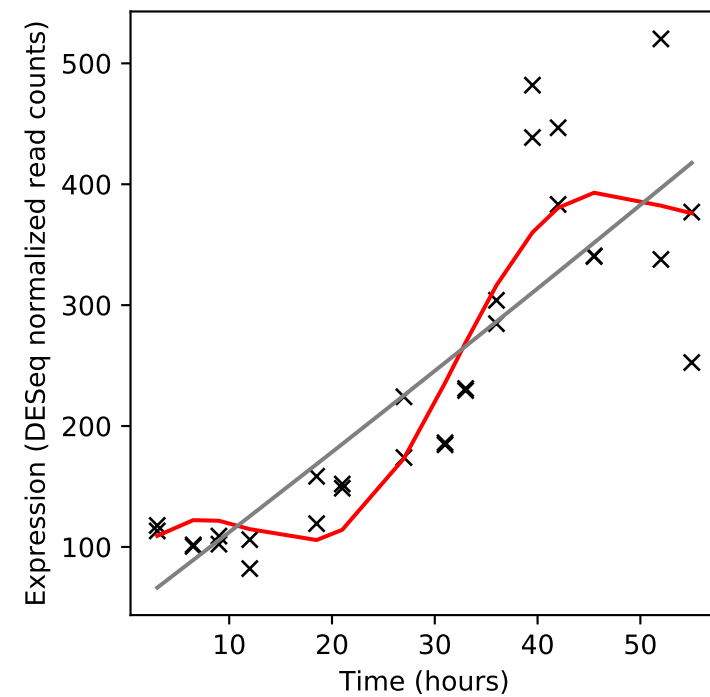
Rv1596/nadC



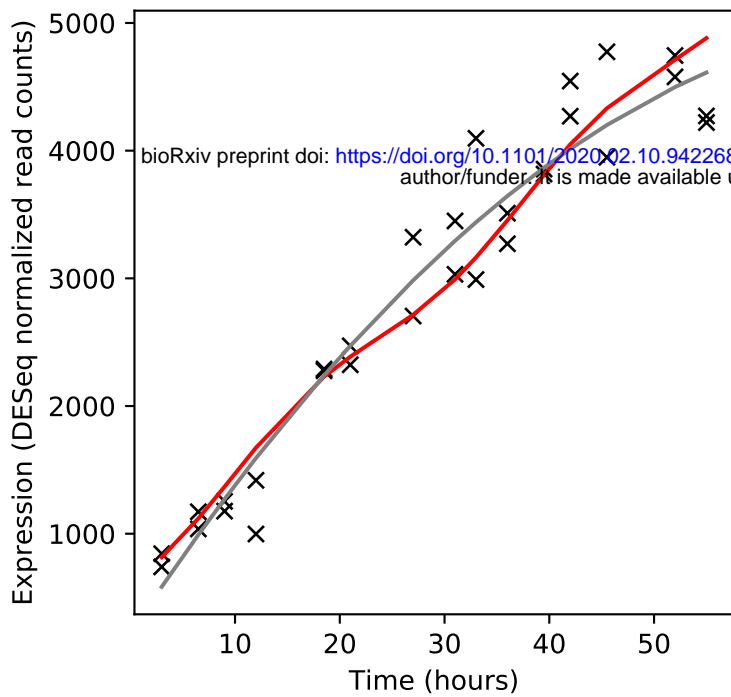
Rv1597/-



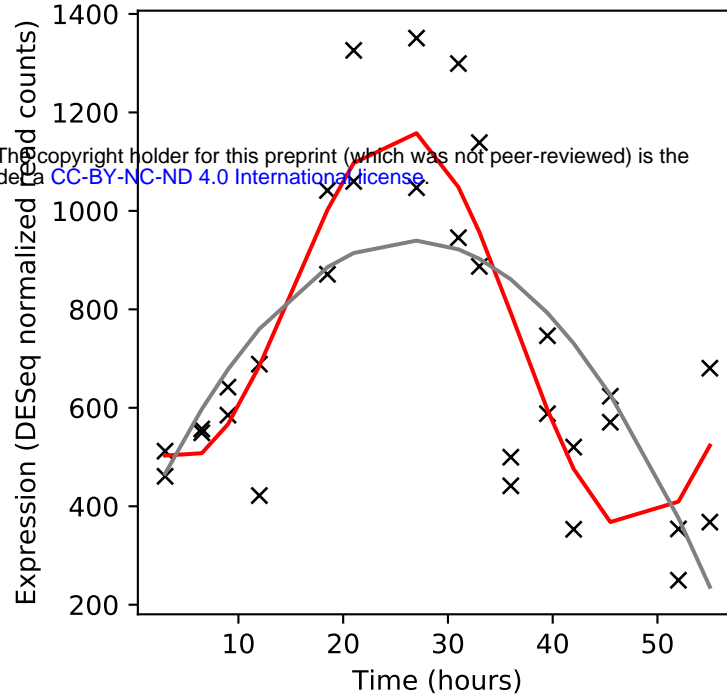
Rv1598c/-



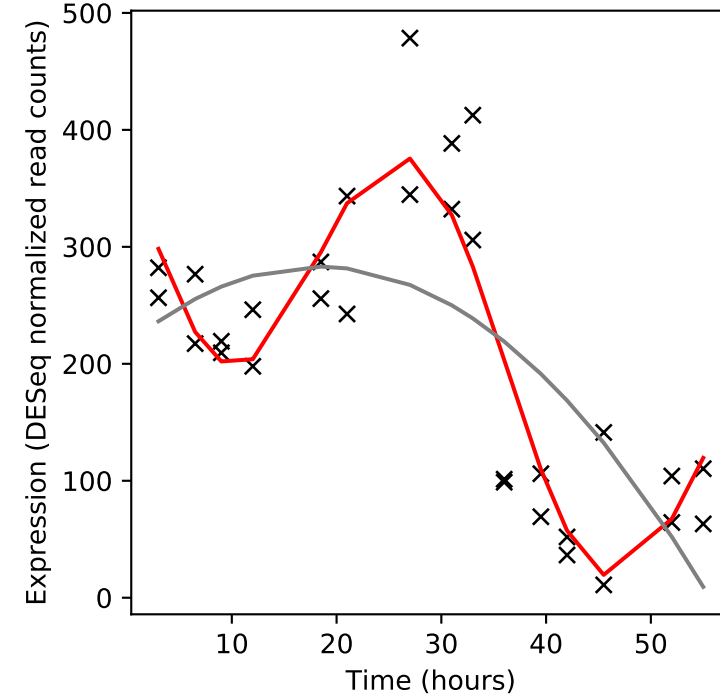
Rv1599/hisD



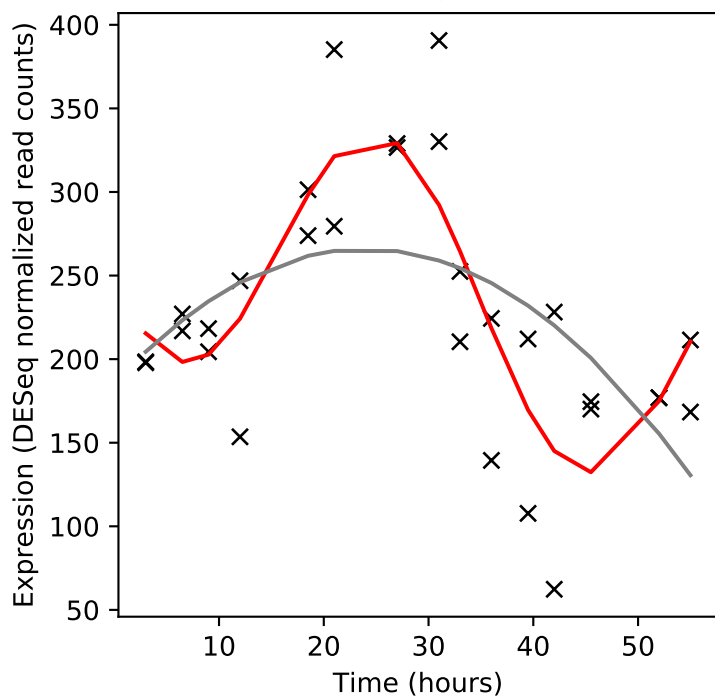
Rv1600/hisC1



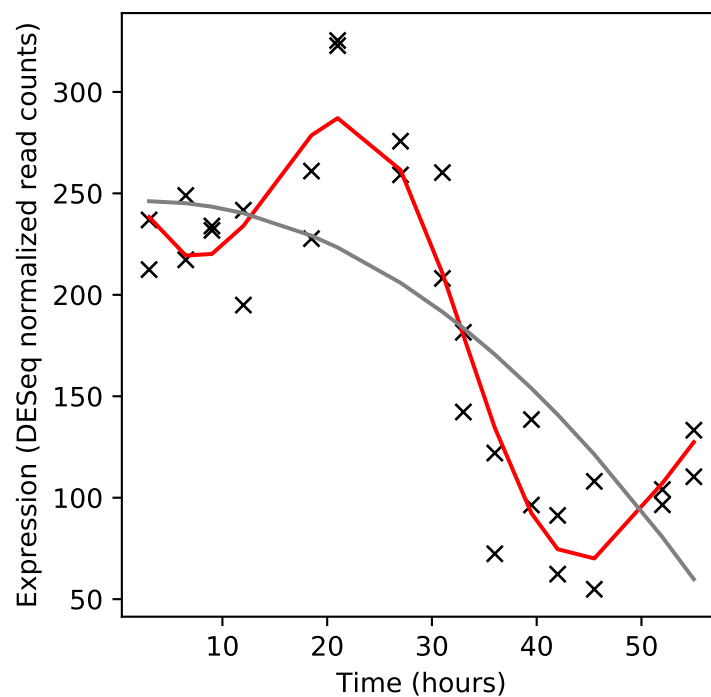
Rv1601/hisB



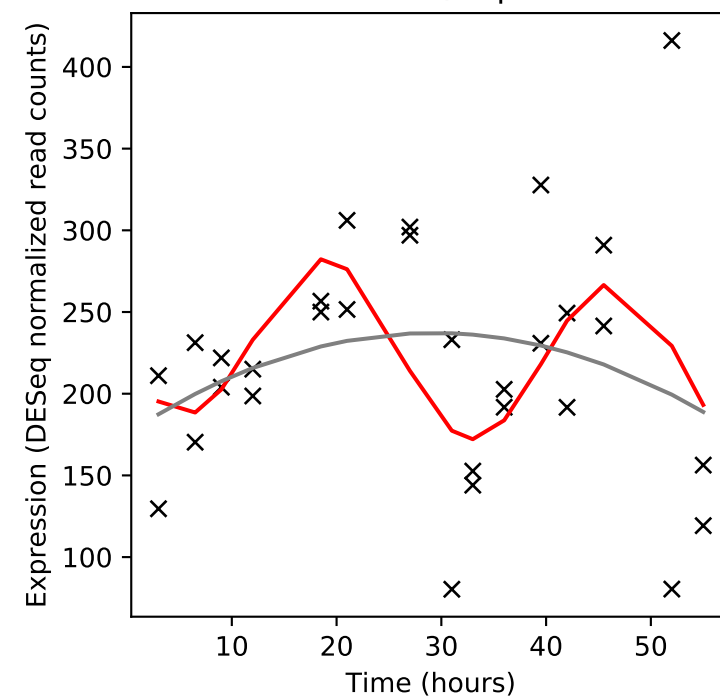
Rv1602/hisH



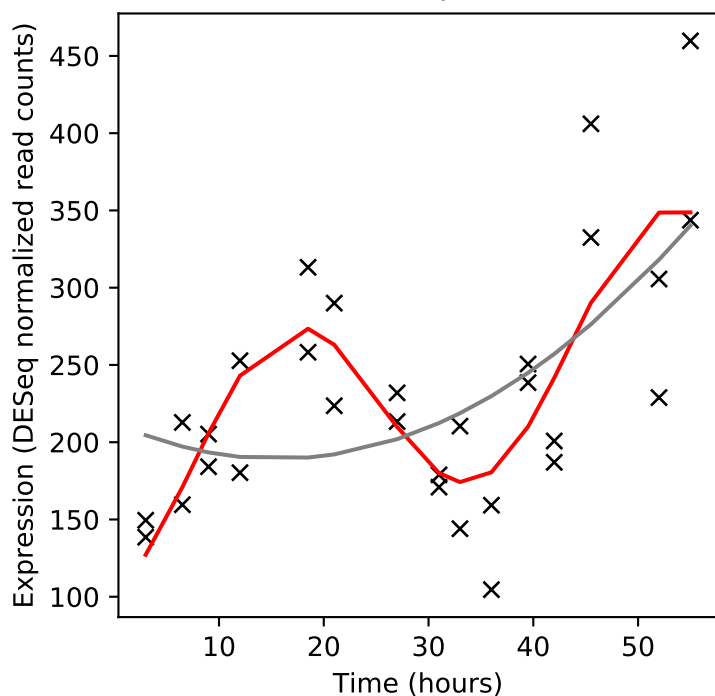
Rv1603/hisA



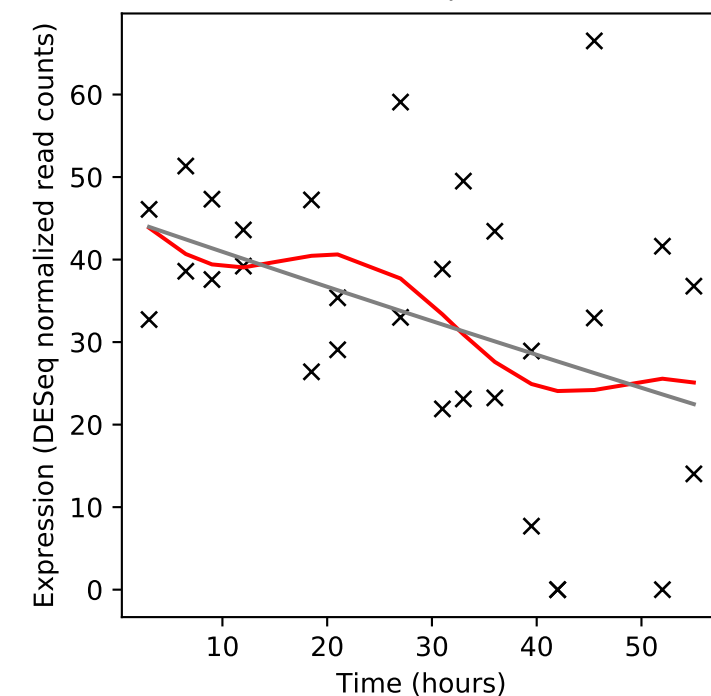
Rv1604/impA



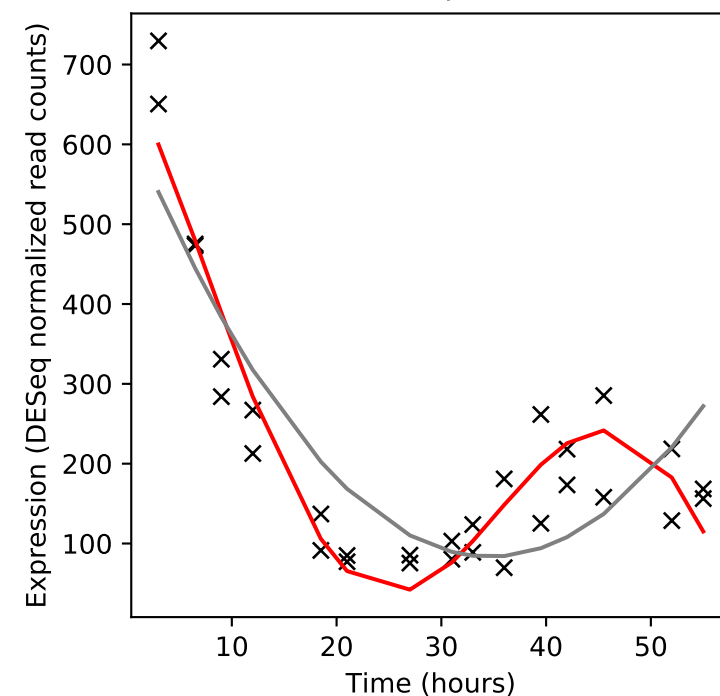
Rv1605/hisF



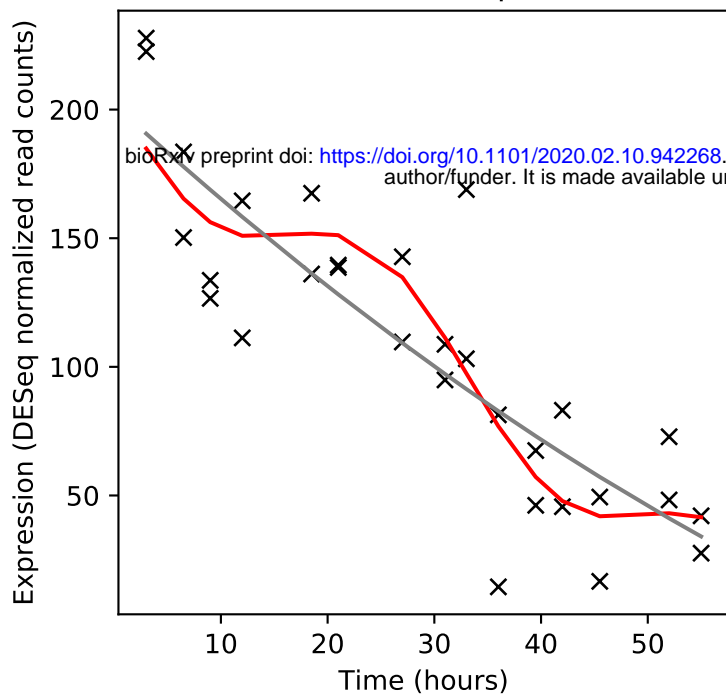
Rv1606/hisI



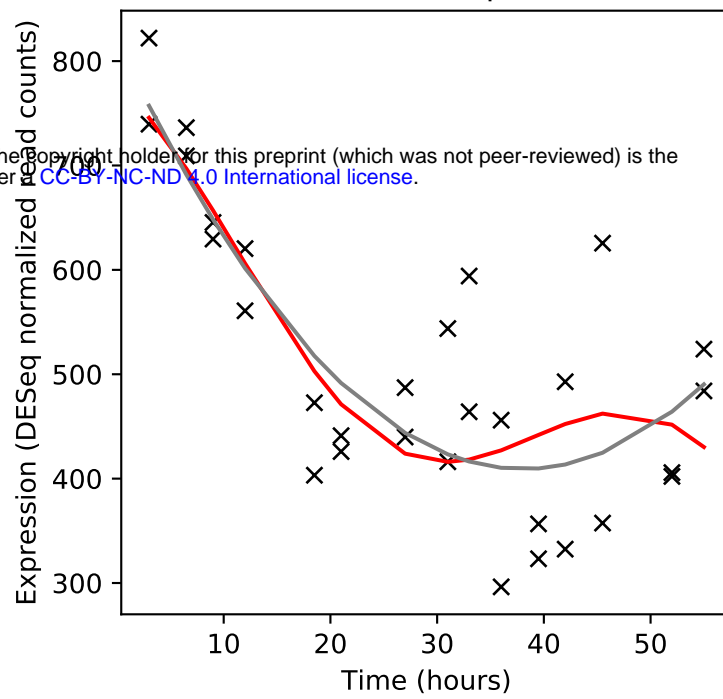
Rv1607/chaA



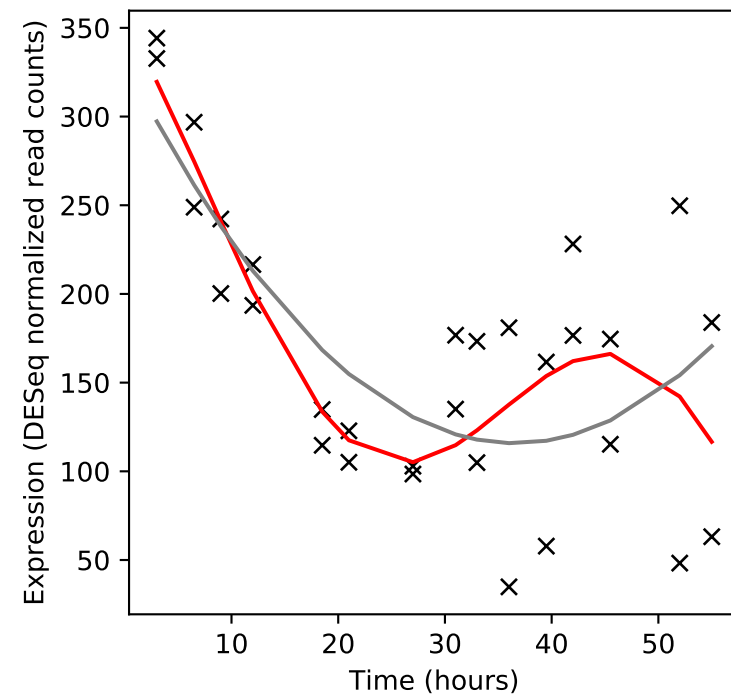
Rv1608c/bcpB



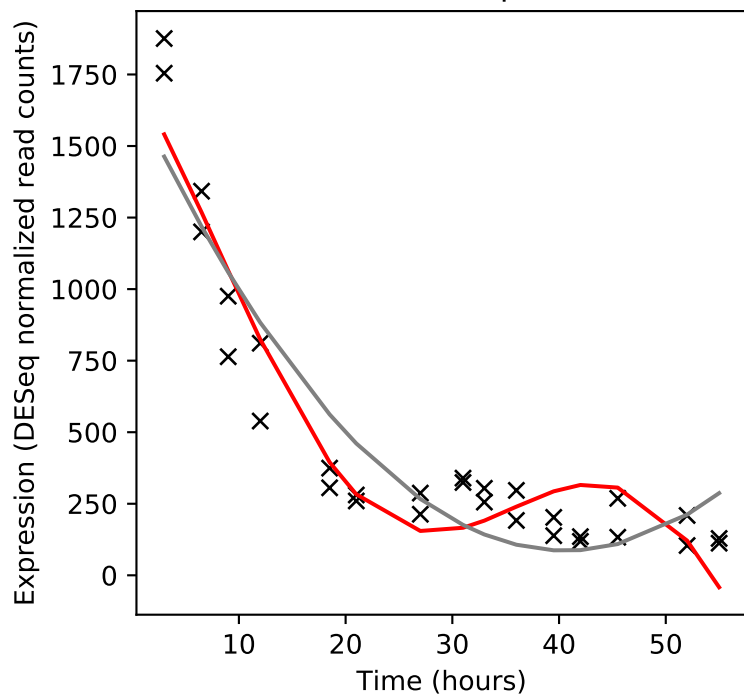
Rv1609/trpE



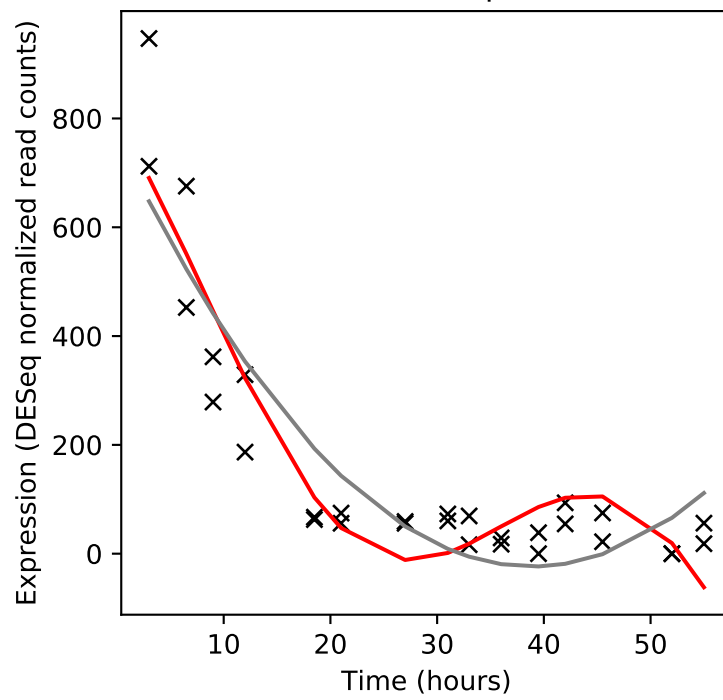
Rv1610/-



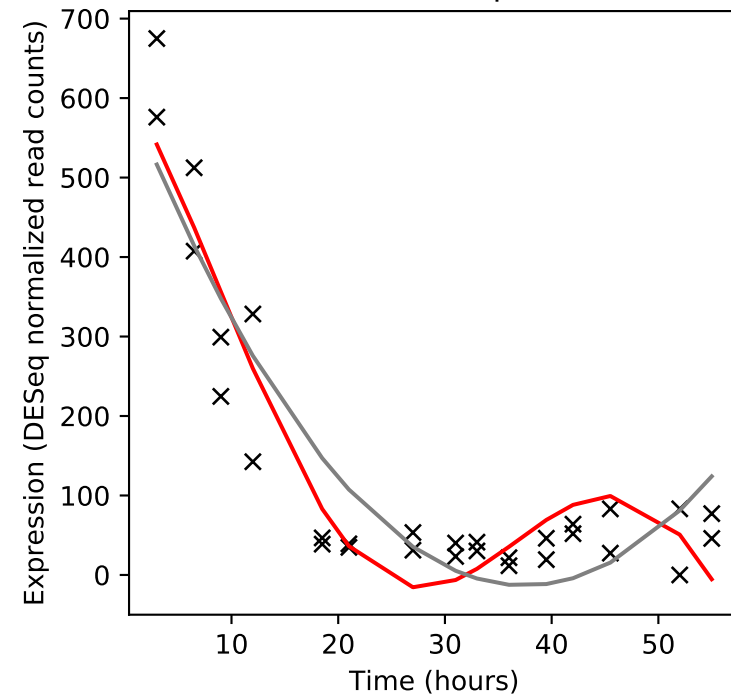
Rv1611/trpC



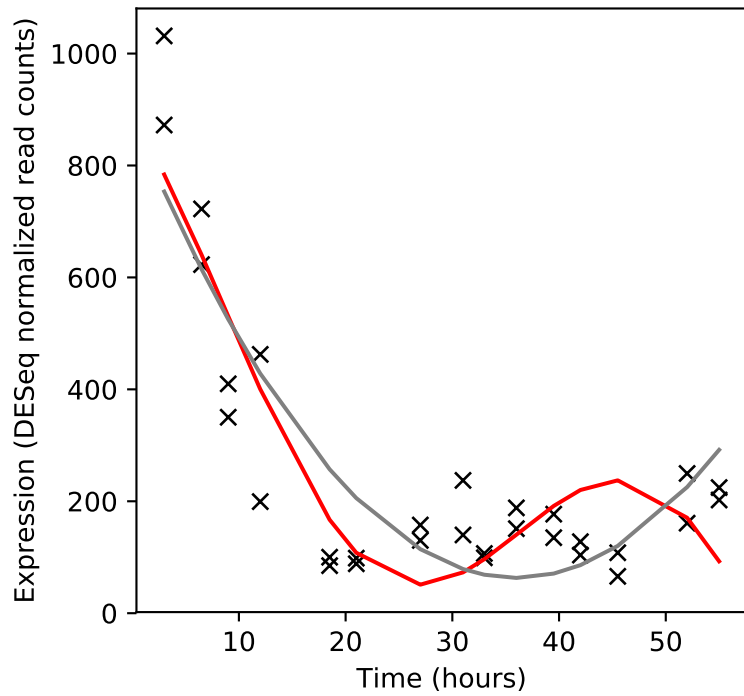
Rv1612/trpB



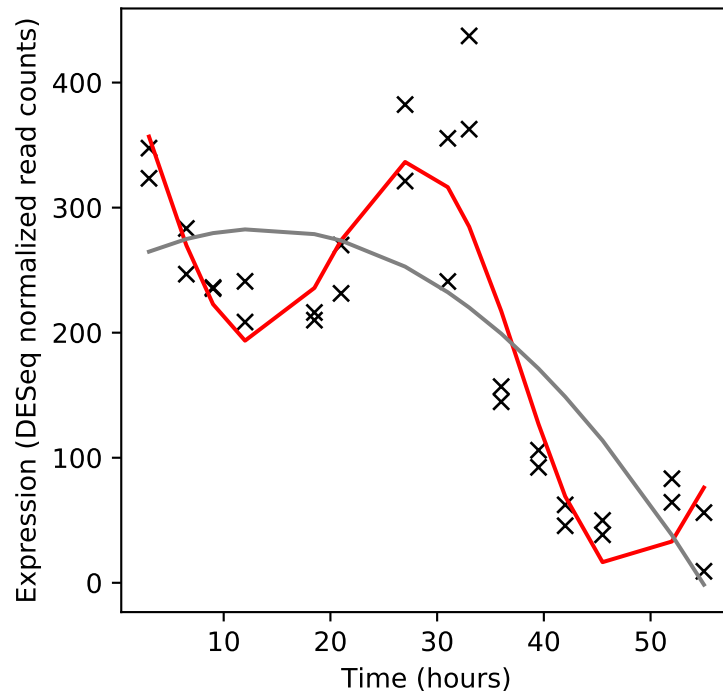
Rv1613/trpA



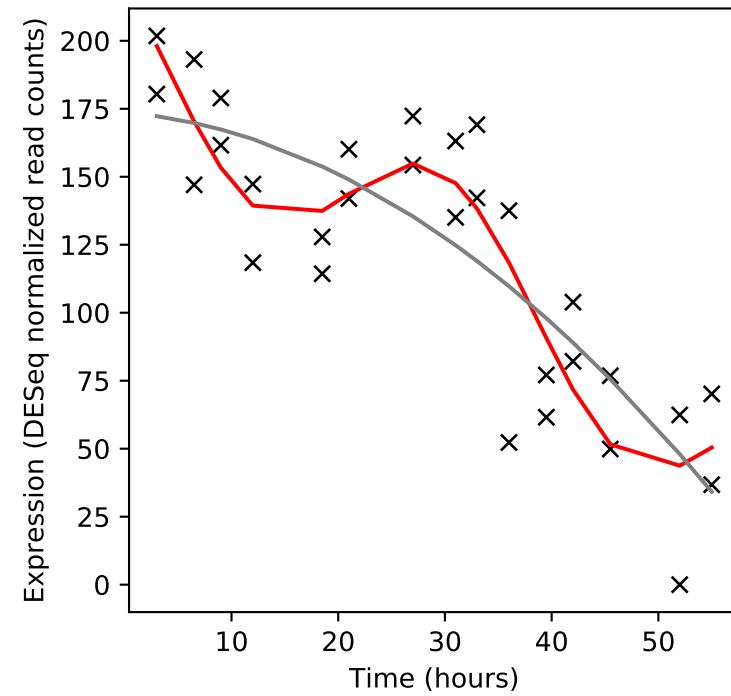
Rv1614/lgt



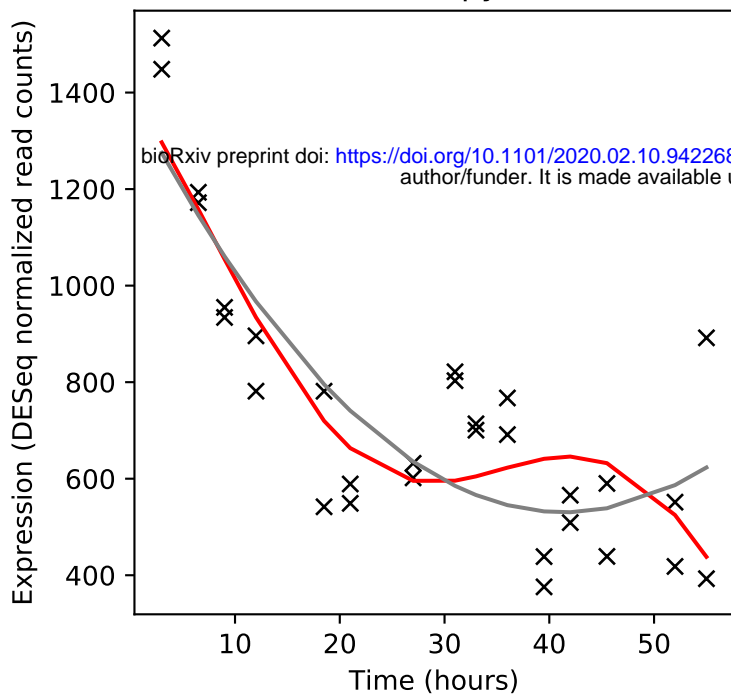
Rv1615/-



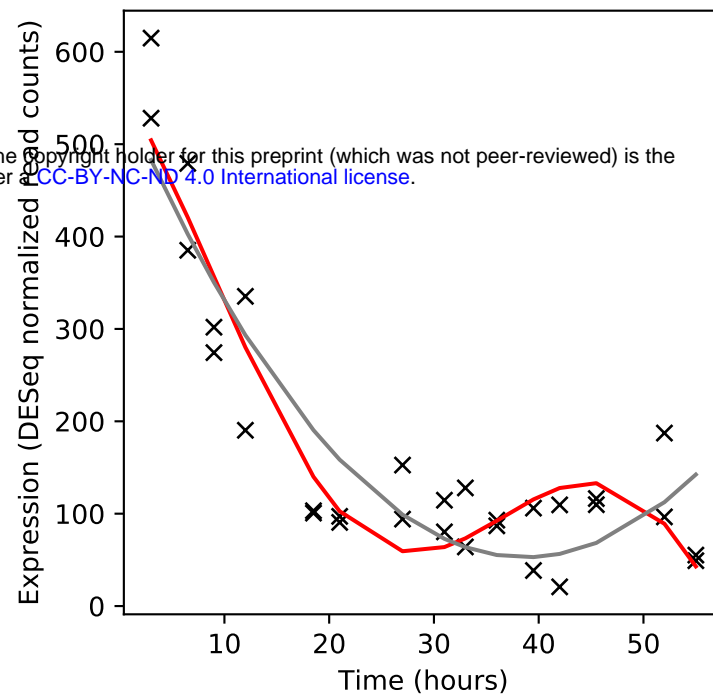
Rv1616/-



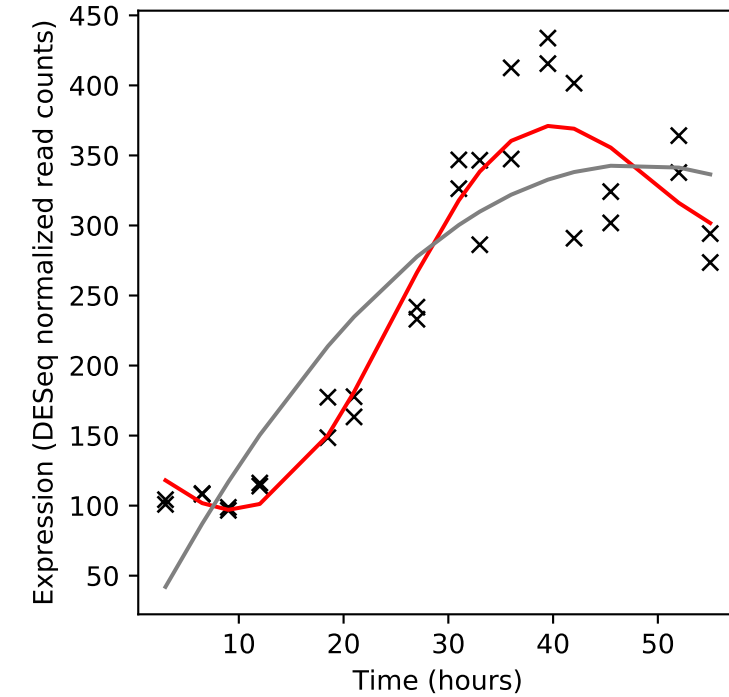
Rv1617/pykA



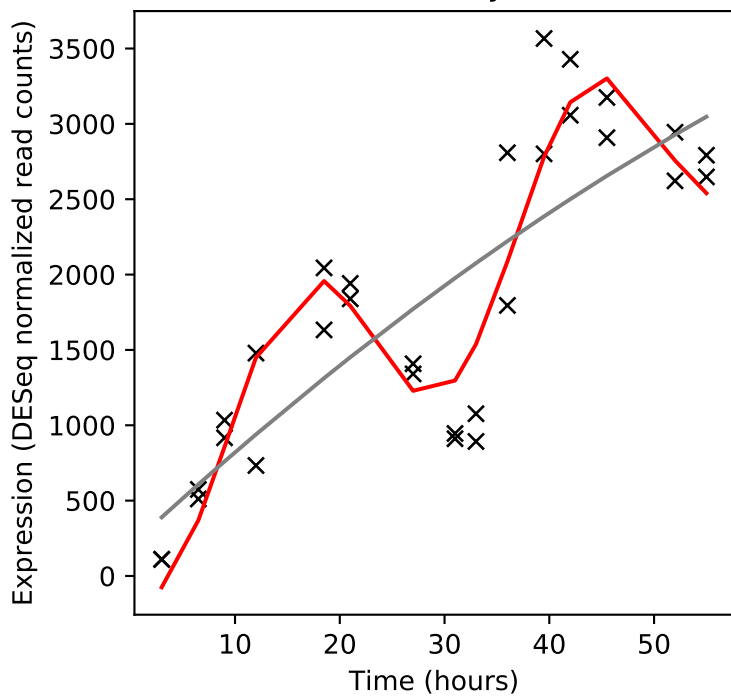
Rv1618/tesB1



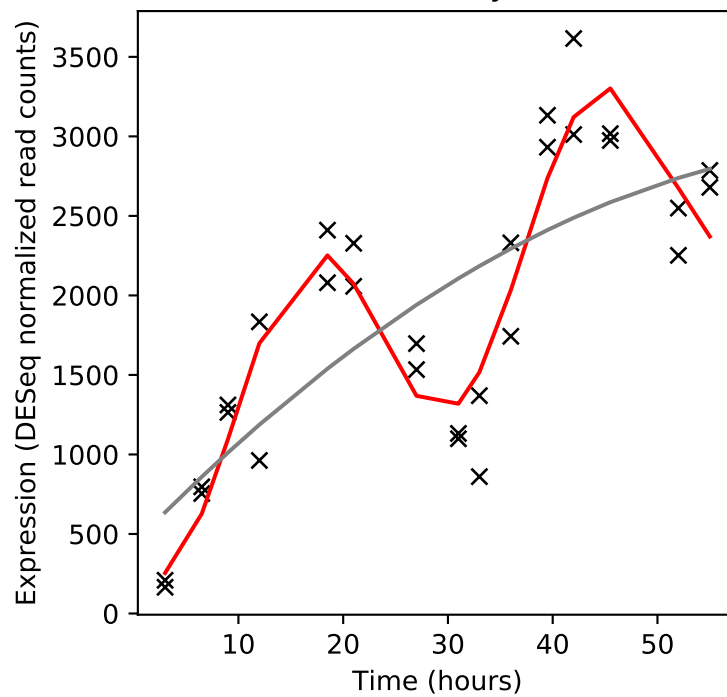
Rv1619/-



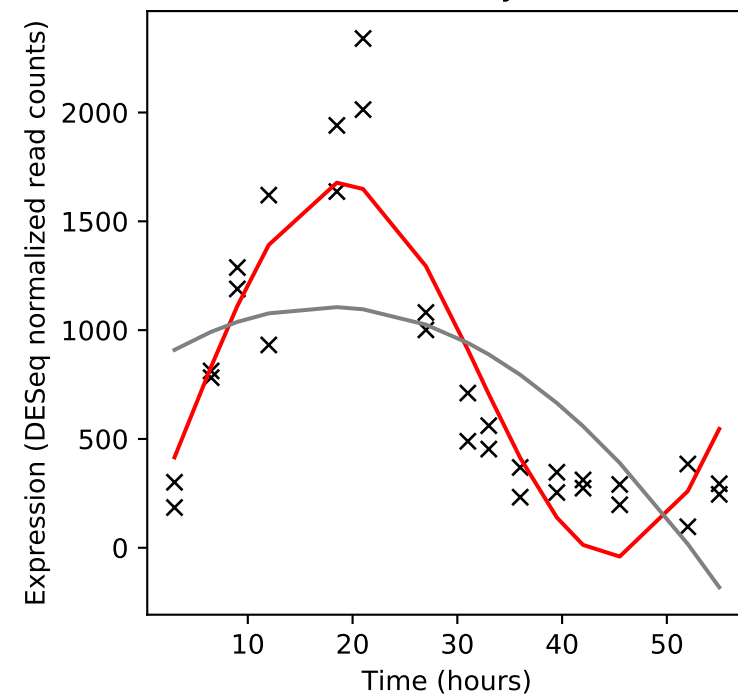
Rv1620c/cydC



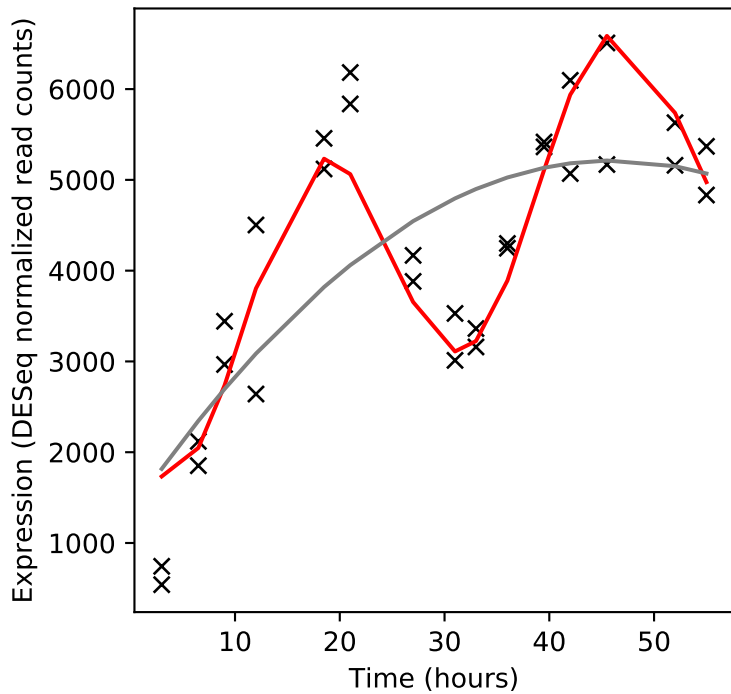
Rv1621c/cydD



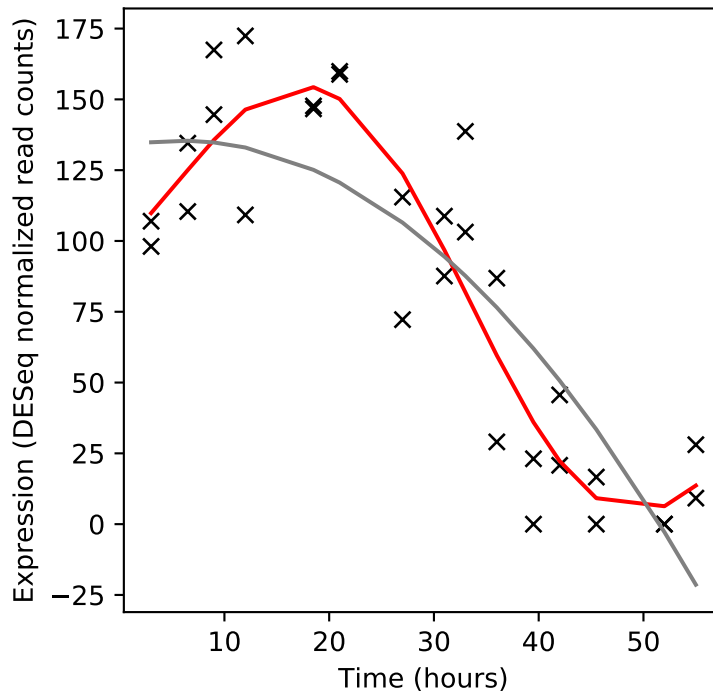
Rv1622c/cydB



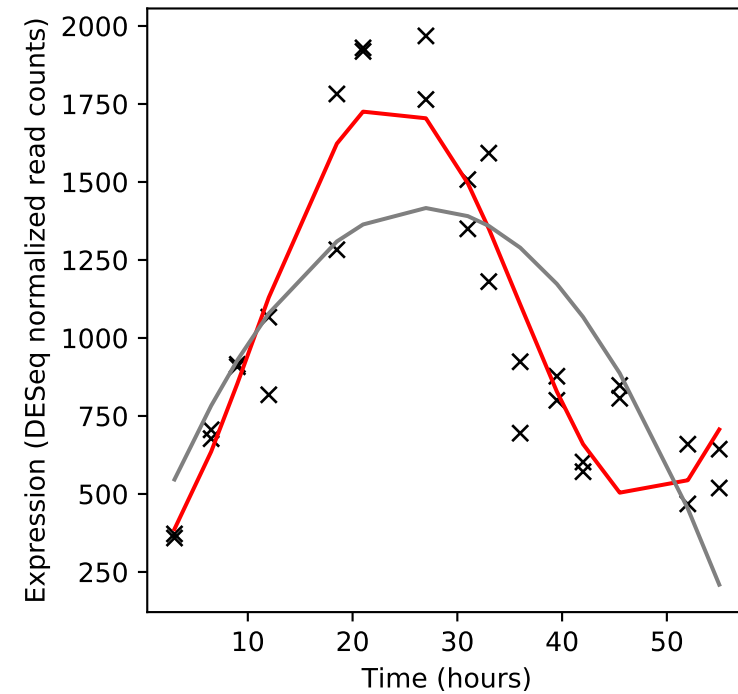
Rv1623c/cydA



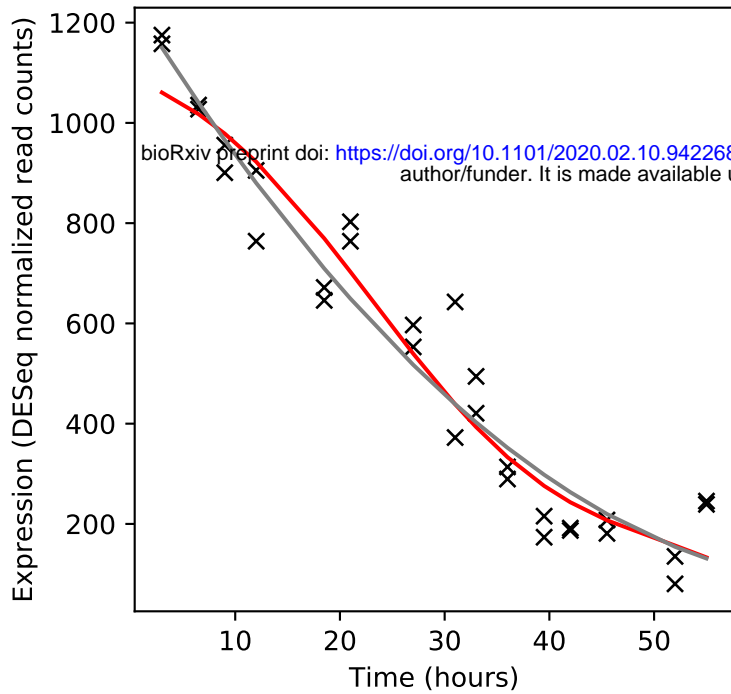
Rv1624c/-



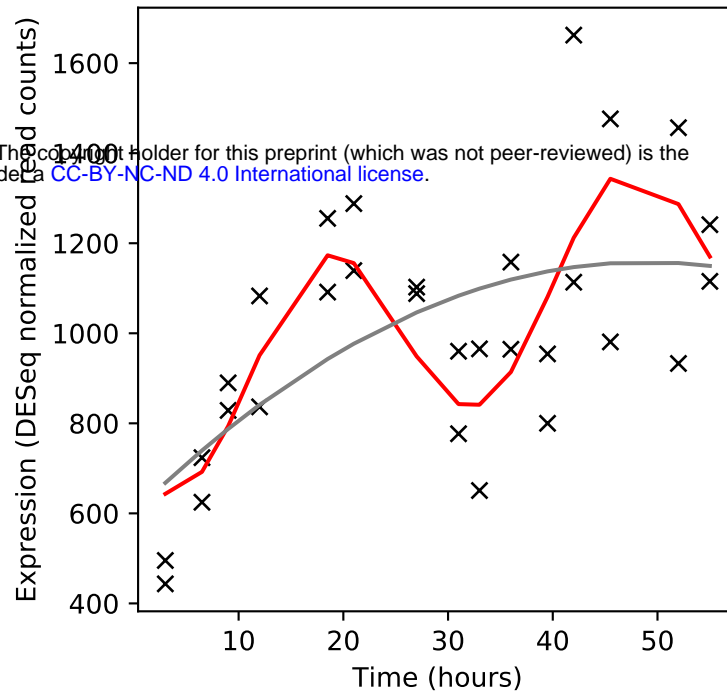
Rv1625c/cya



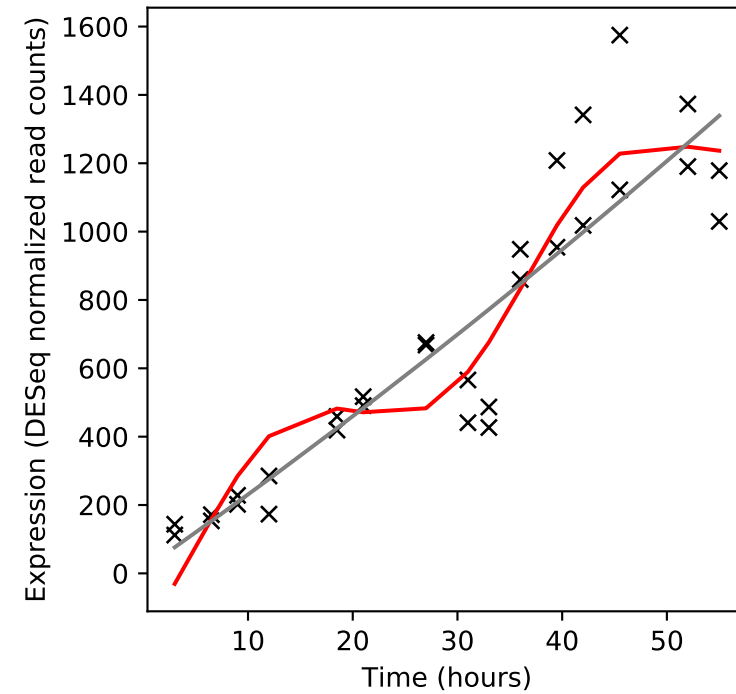
Rv1626/-



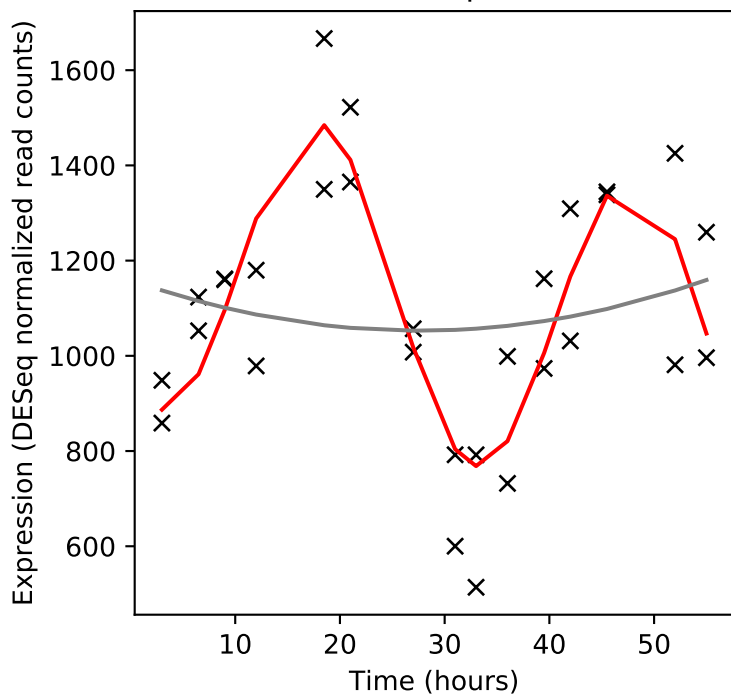
Rv1627c/-



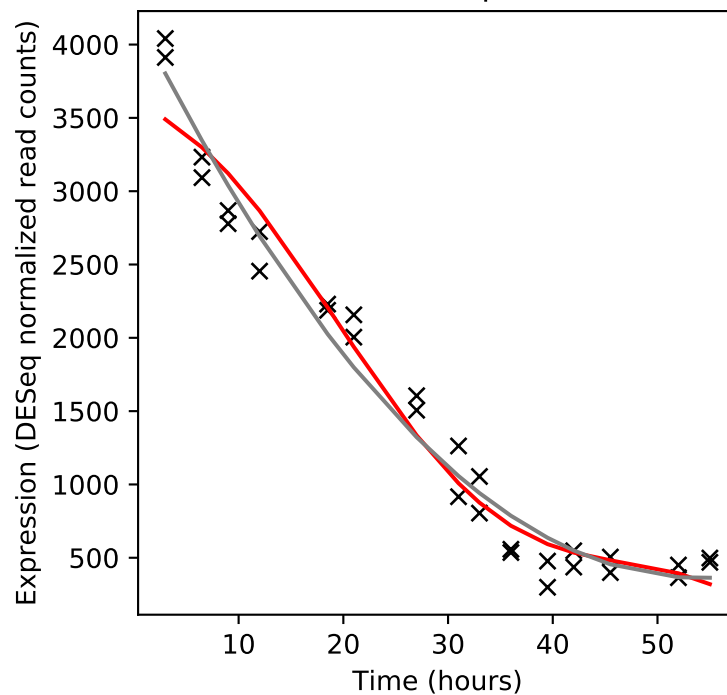
Rv1628c/-



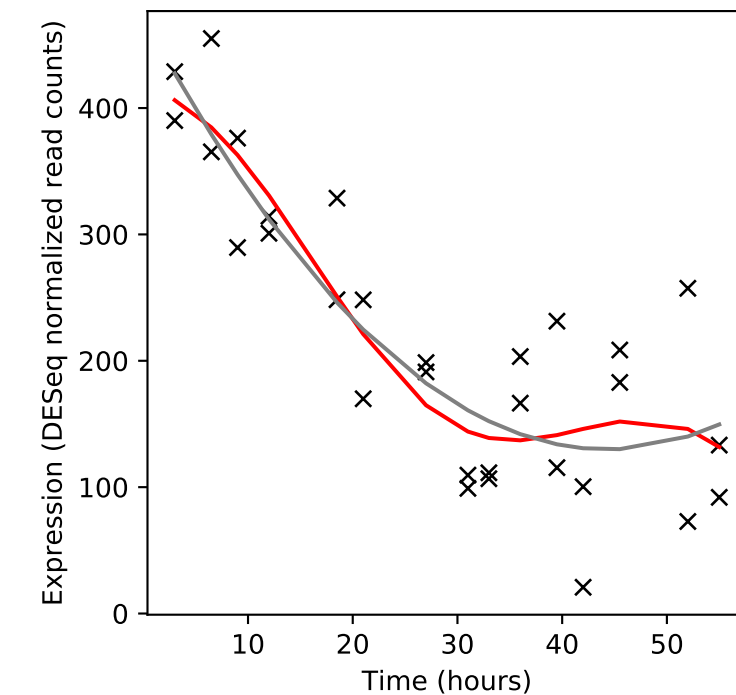
Rv1629/polA



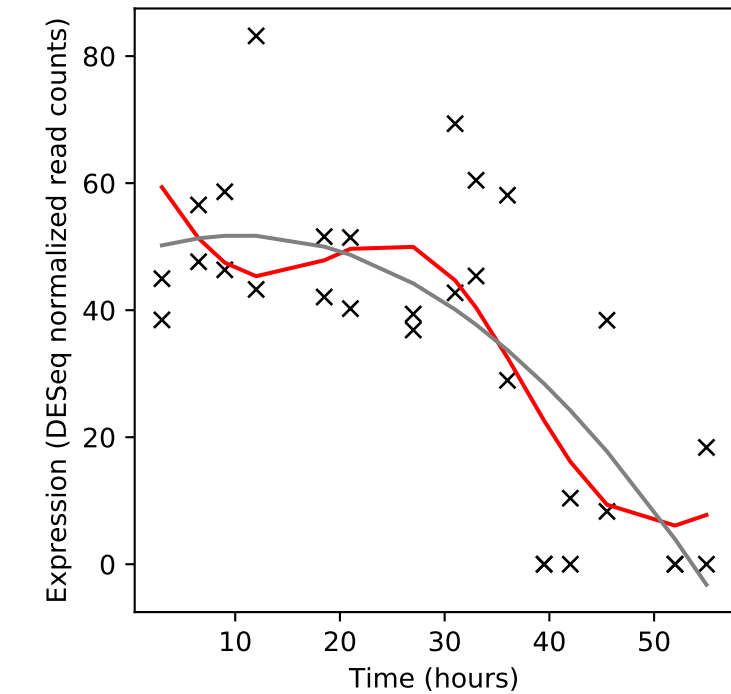
Rv1630/rpsA



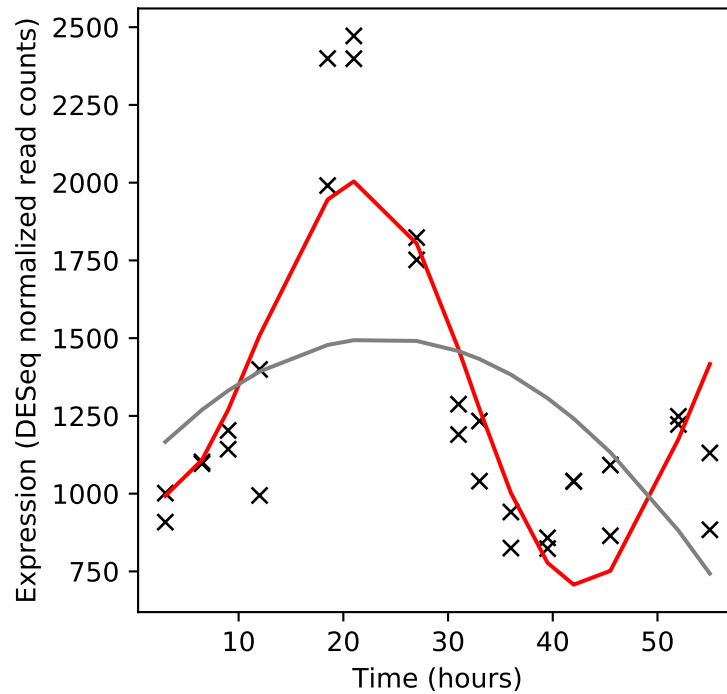
Rv1631/coaE



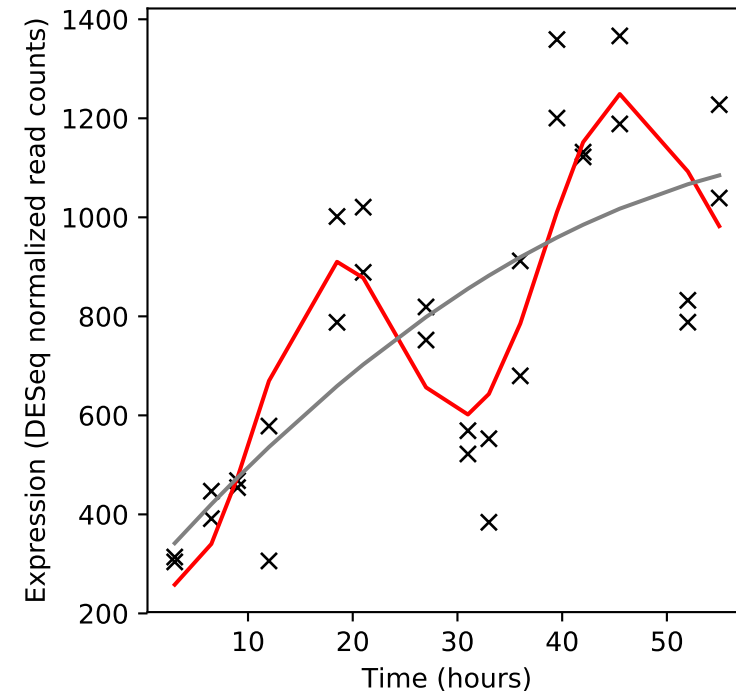
Rv1632c/-



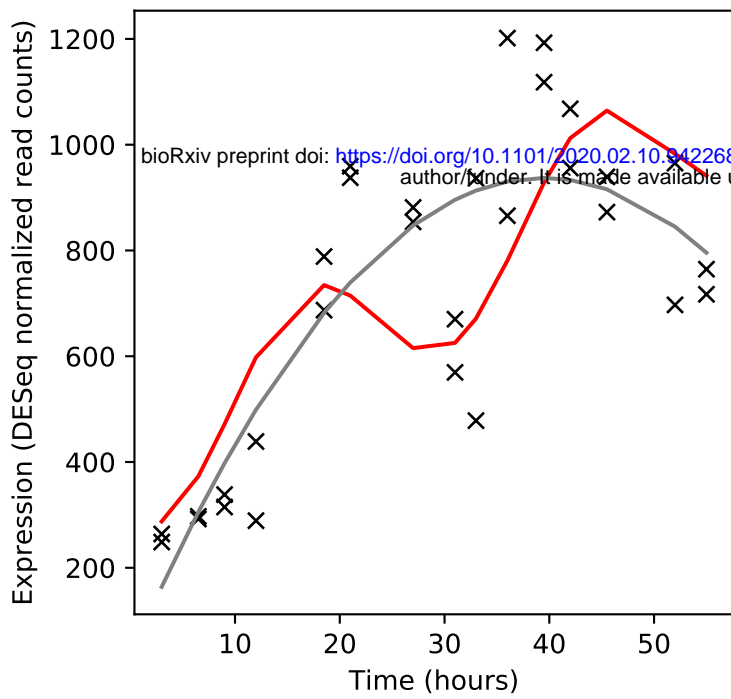
Rv1633/uvrB



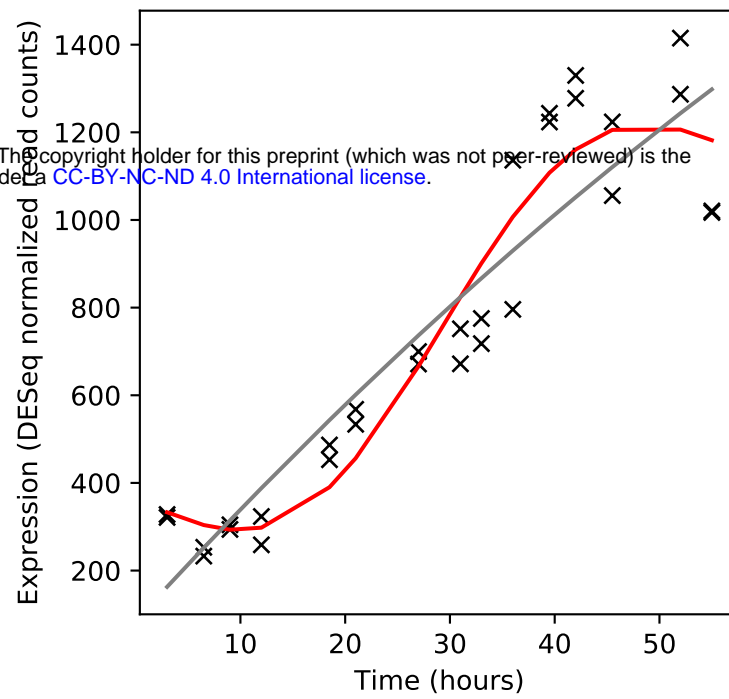
Rv1634/-



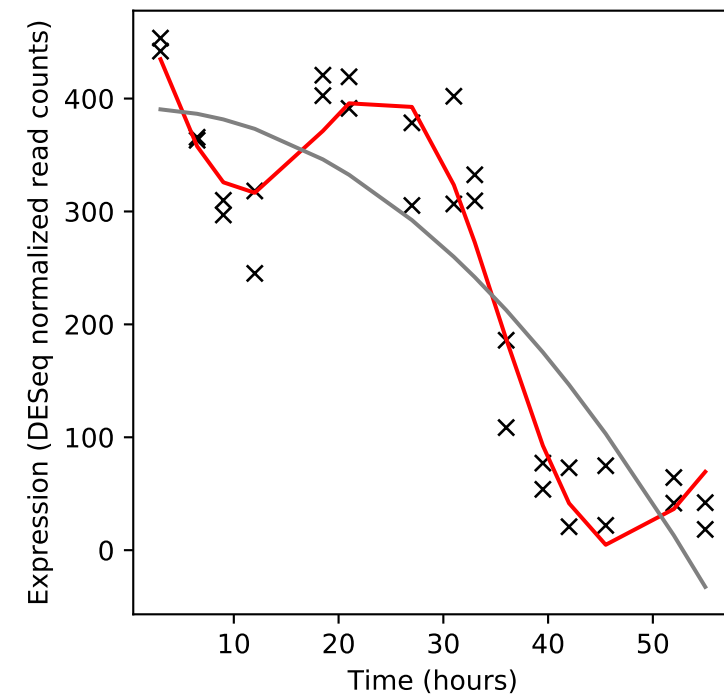
Rv1635c/-



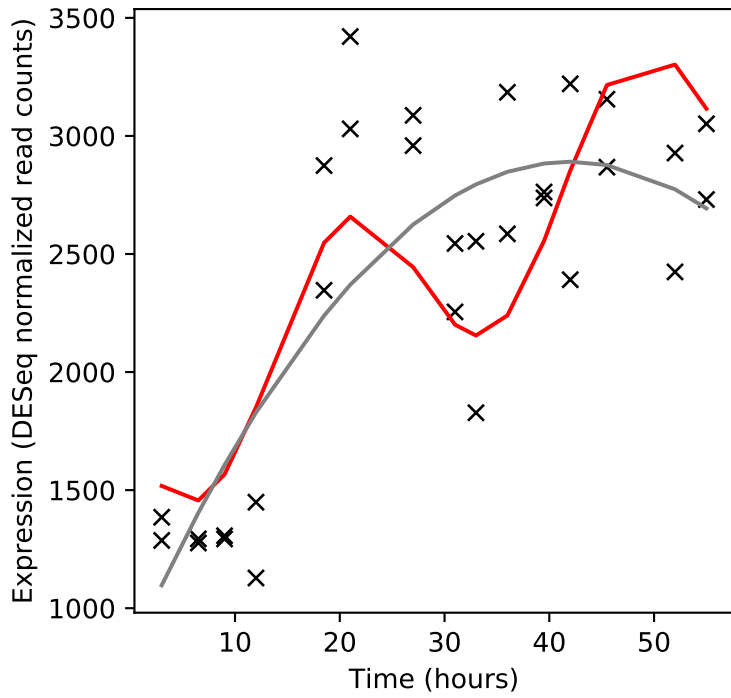
Rv1636/TB15.3



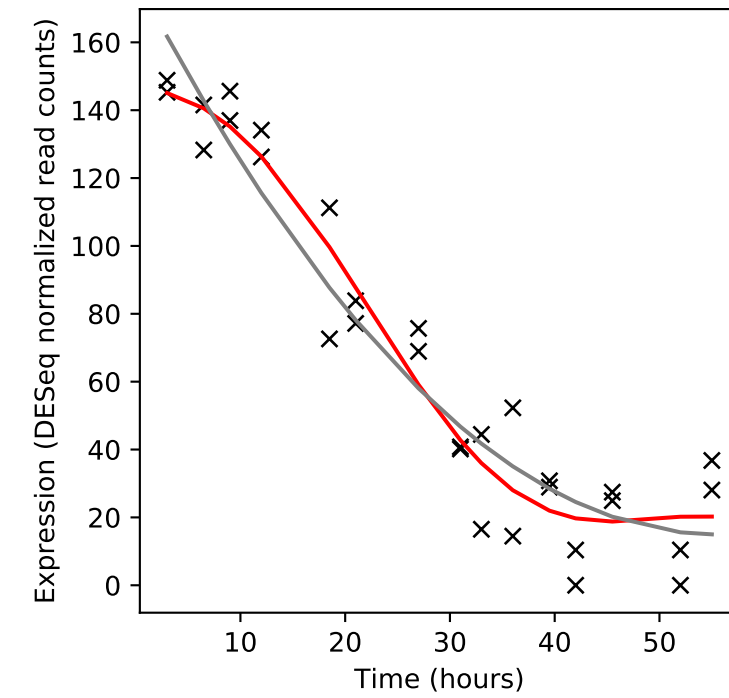
Rv1637c/-



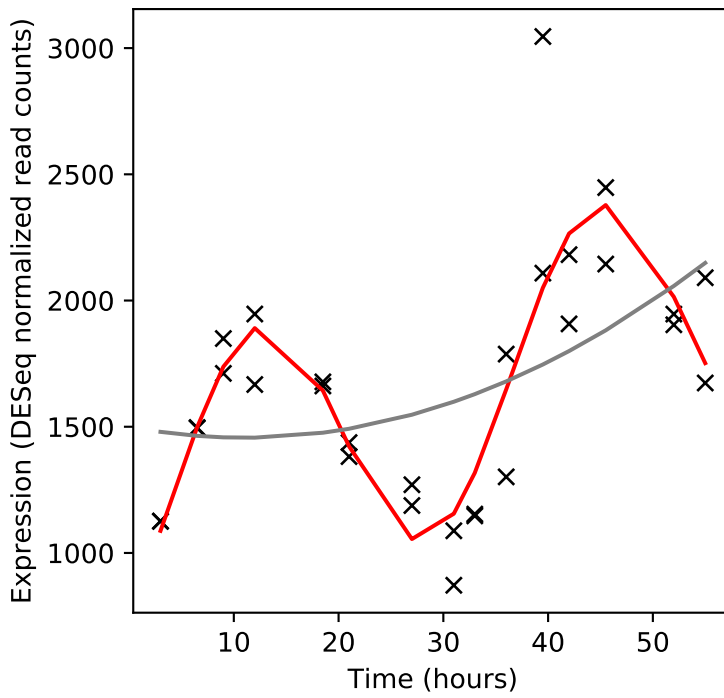
Rv1638/uvrA



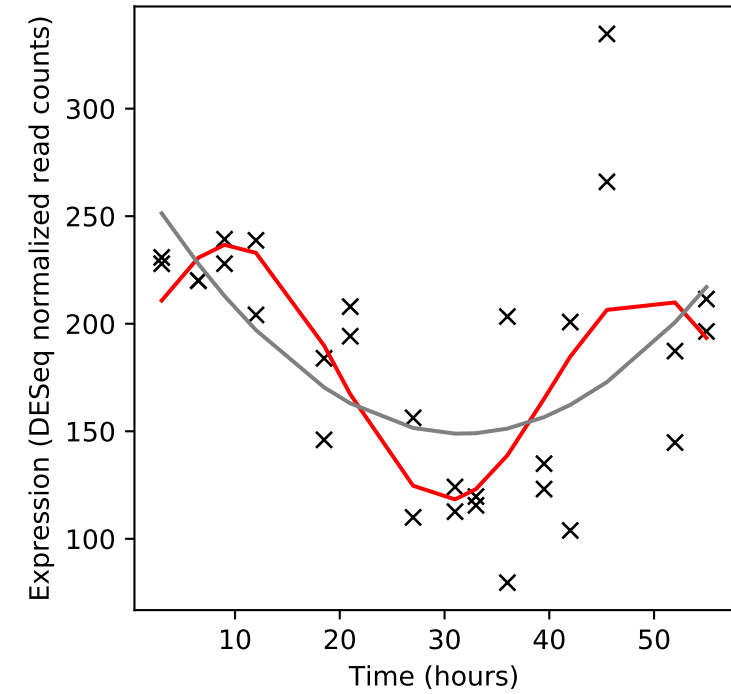
Rv1638A/-



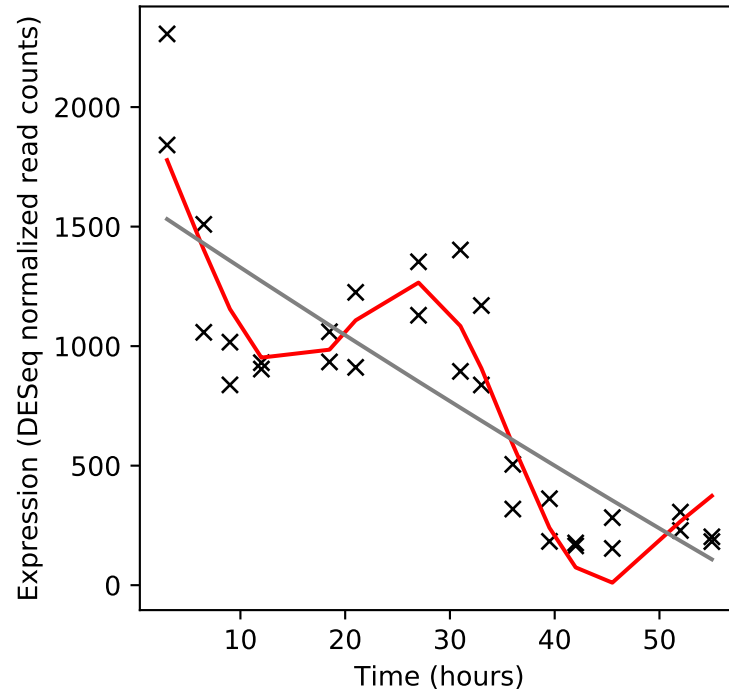
Rv1639c/-



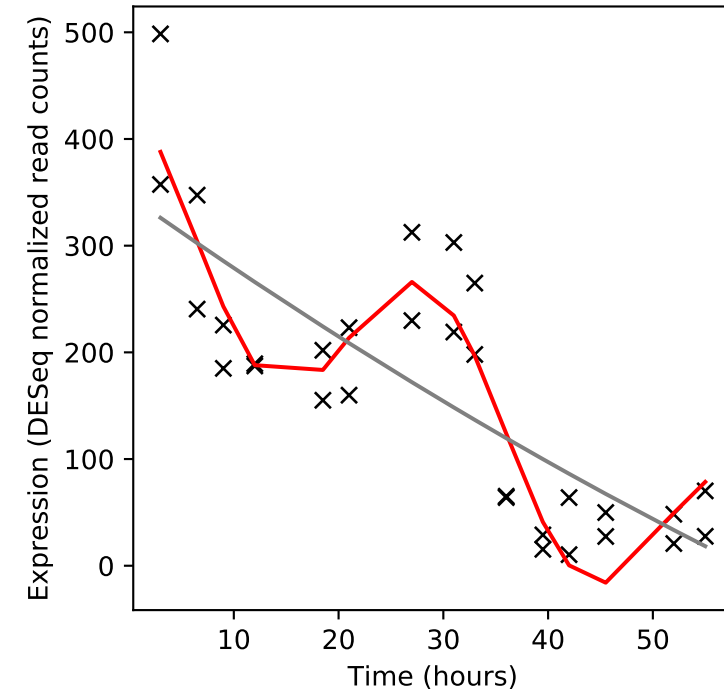
Rv1640c/lysX



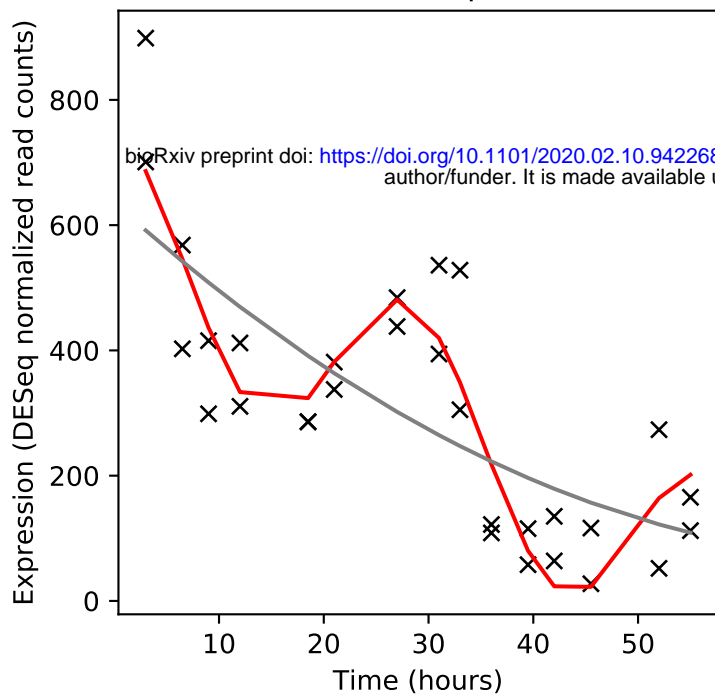
Rv1641/infC



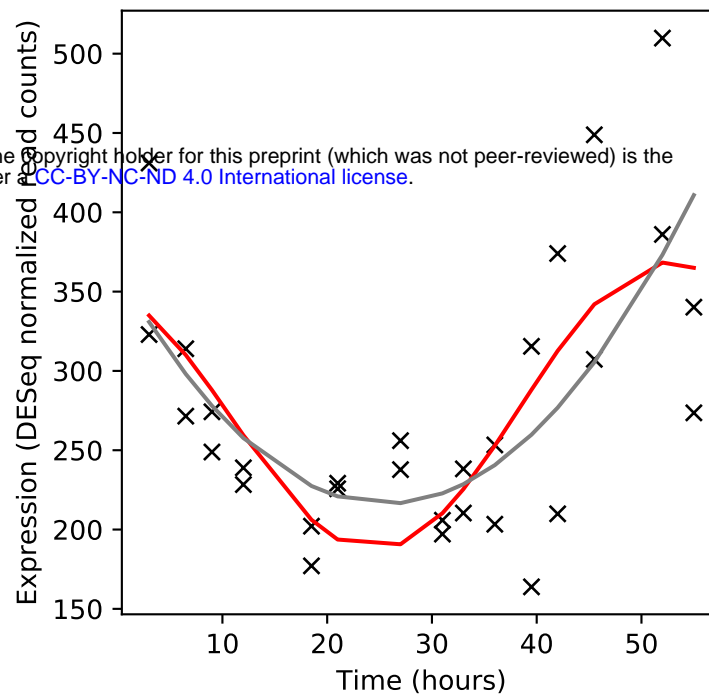
Rv1642/rpmI



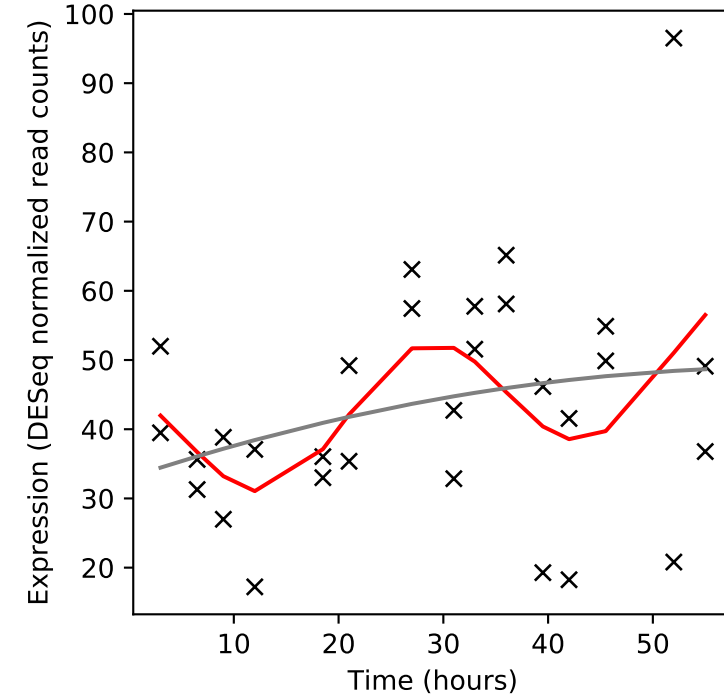
Rv1643/rpIT



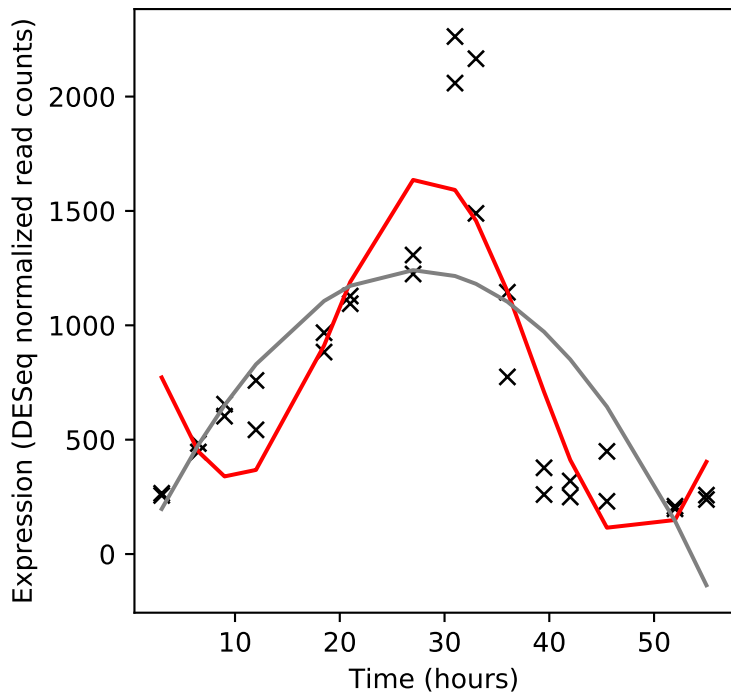
Rv1644/tsnR



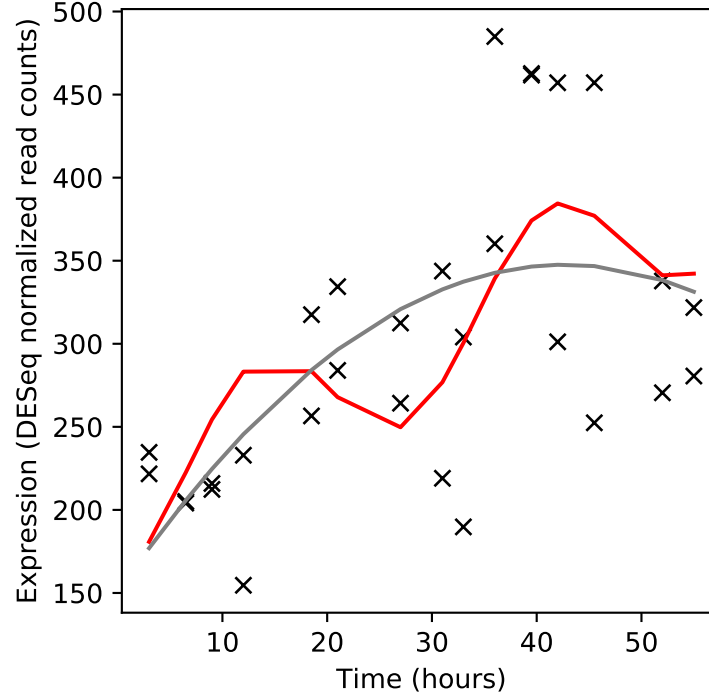
Rv1645c/-



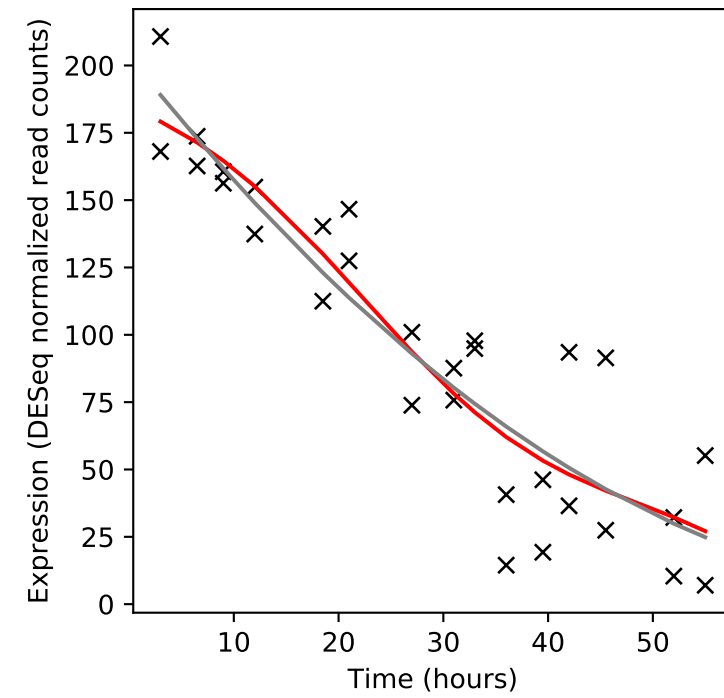
Rv1646/PE17



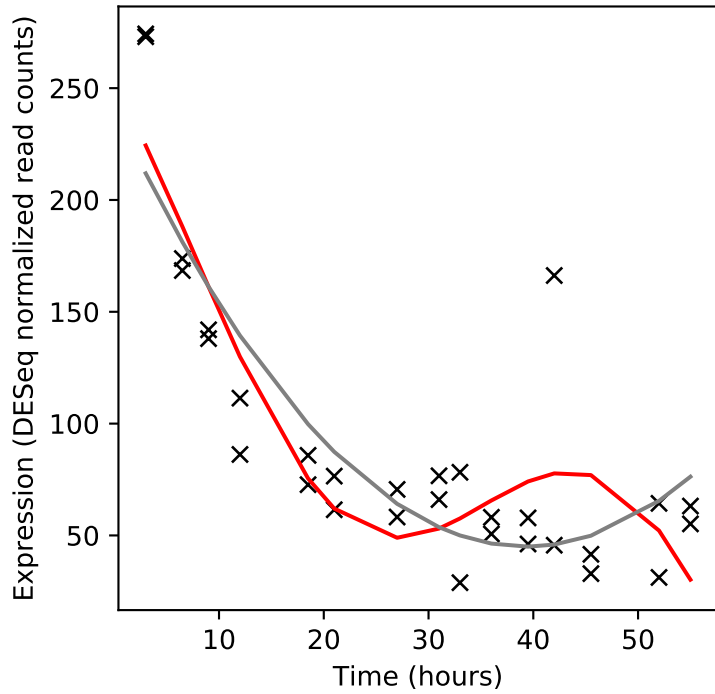
Rv1647/-



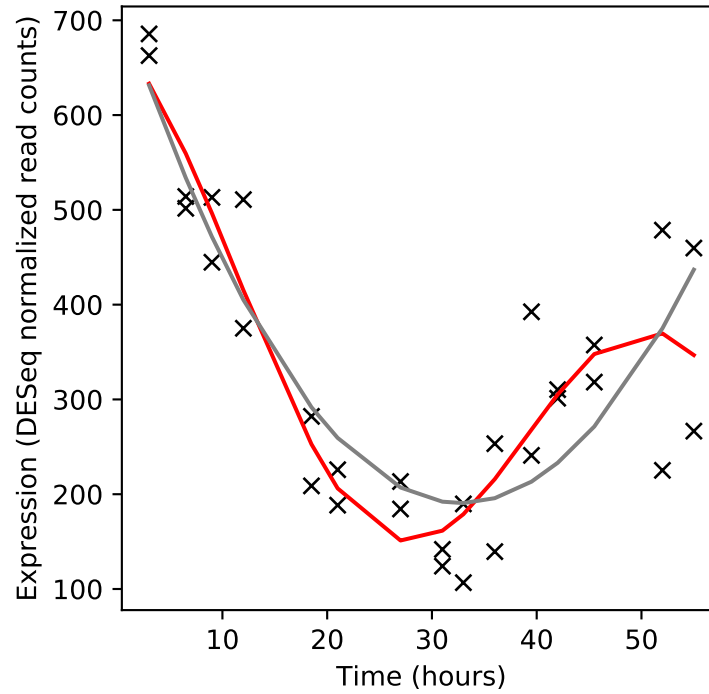
Rv1648/-



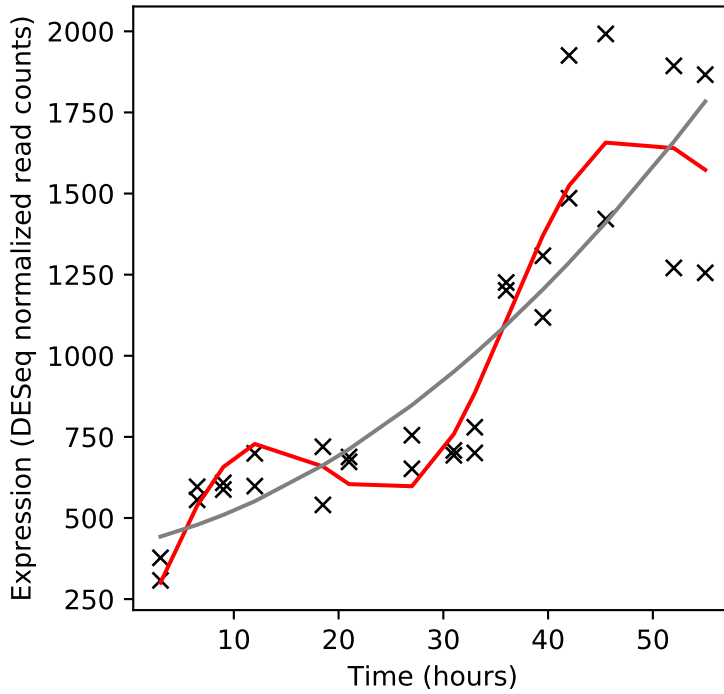
Rv1649/pheS



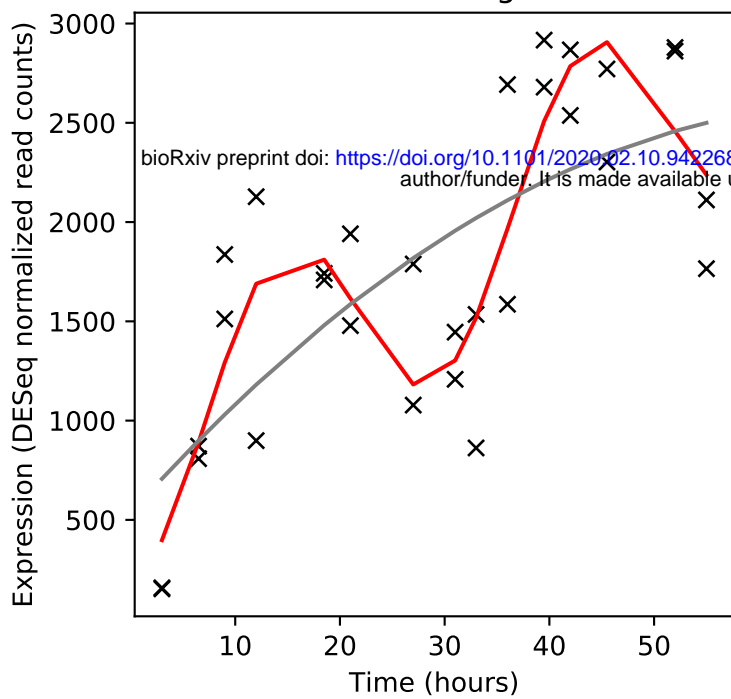
Rv1650/pheT



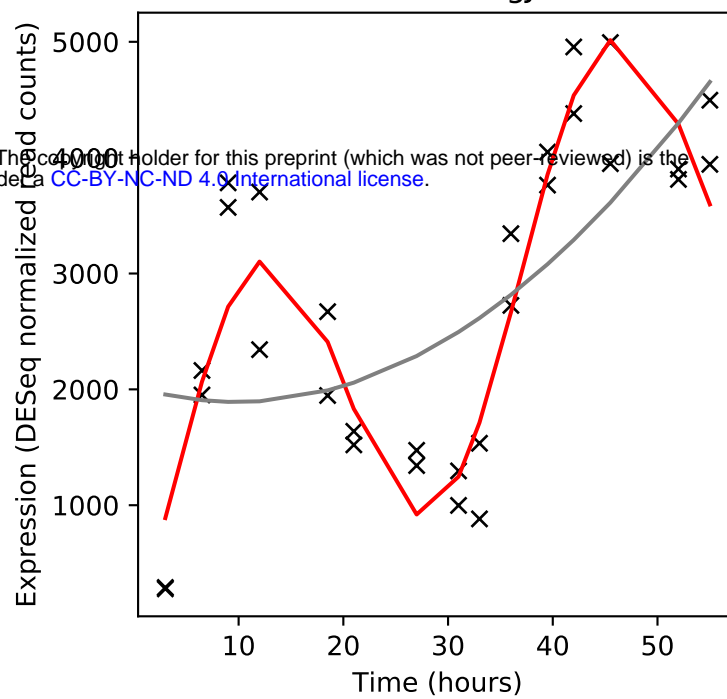
Rv1651c/PE_PGRS30



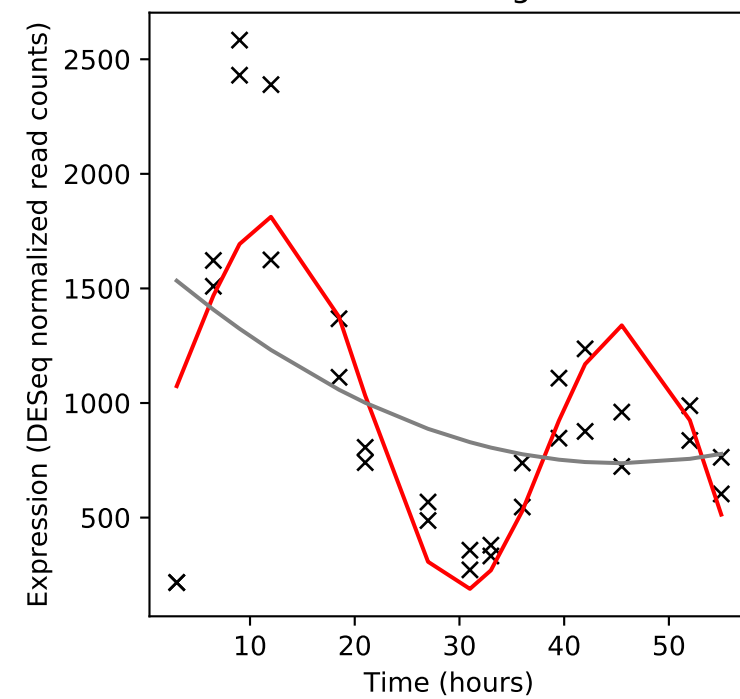
Rv1652/argC



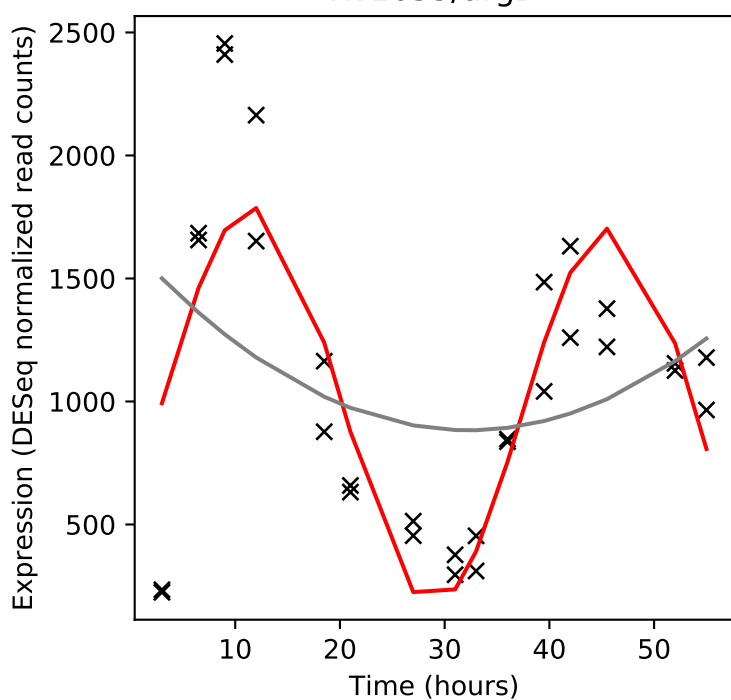
Rv1653/argJ



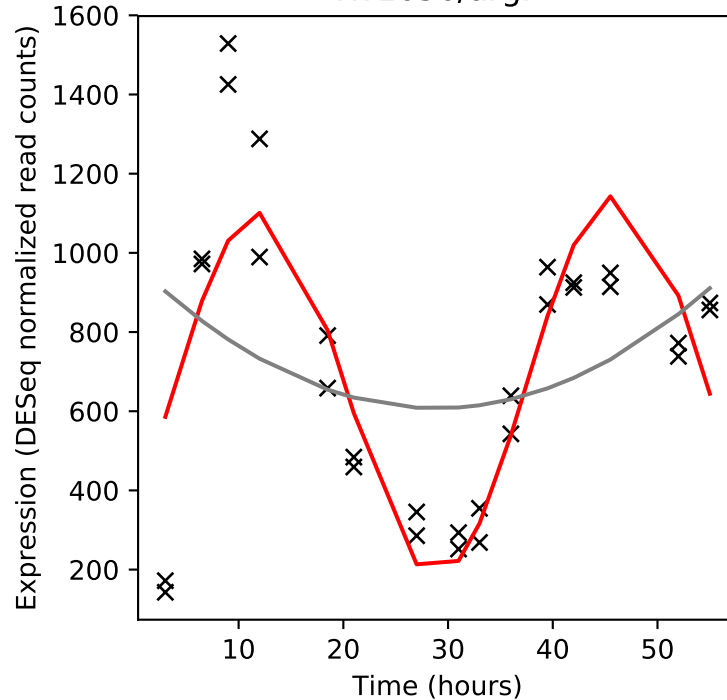
Rv1654/argB



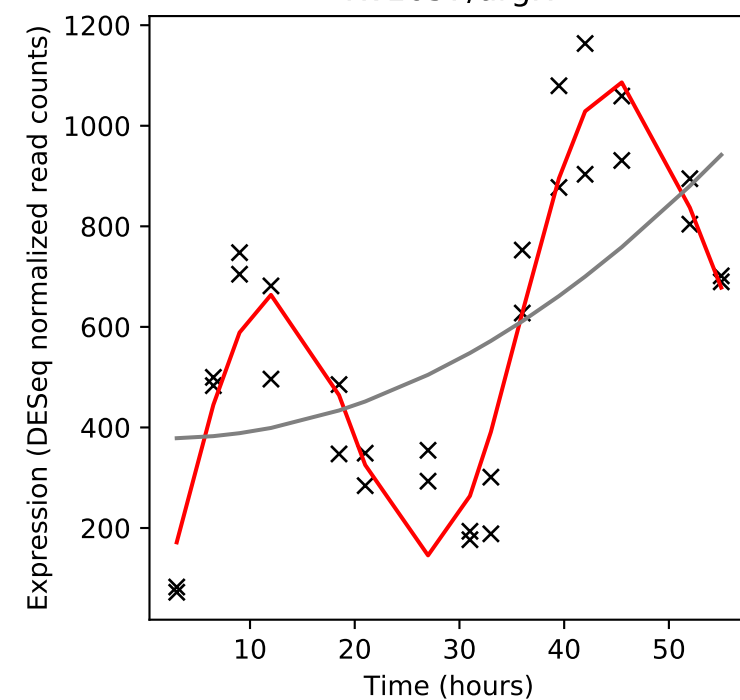
Rv1655/argD



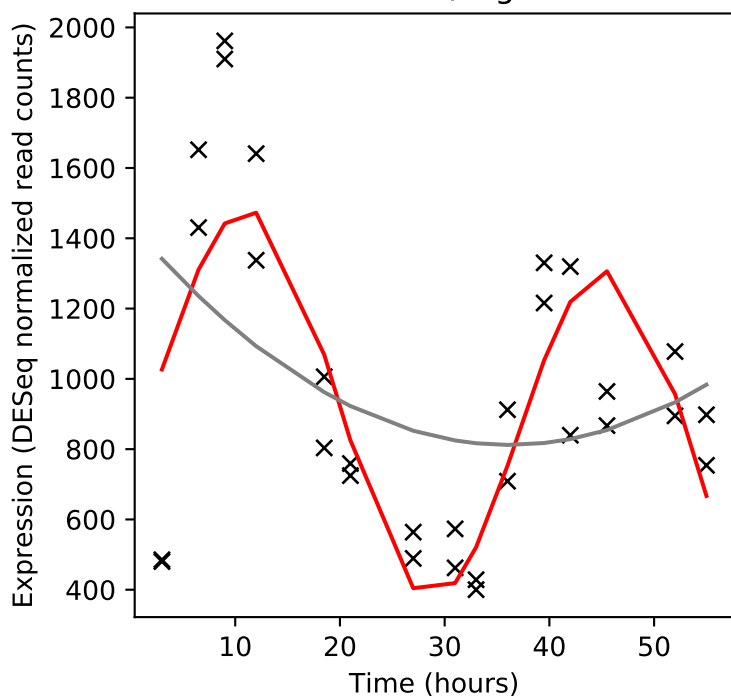
Rv1656/argF



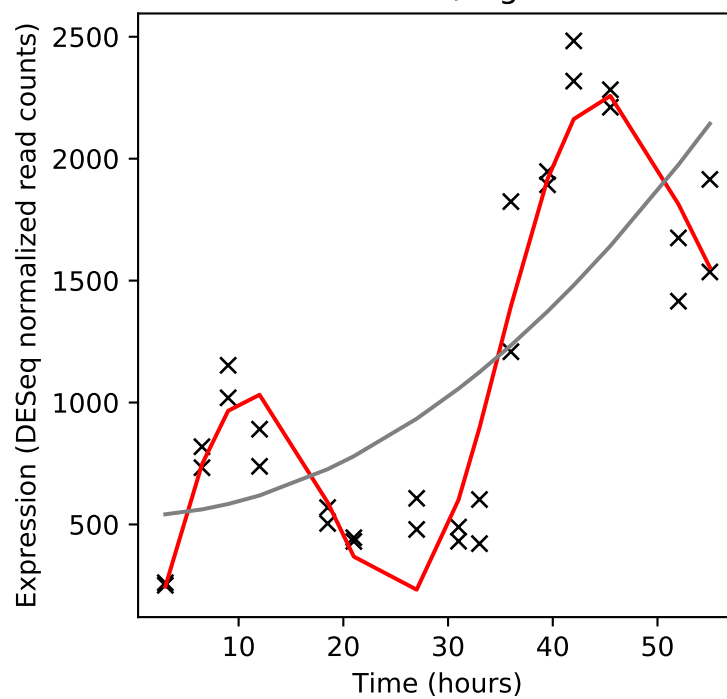
Rv1657/argR



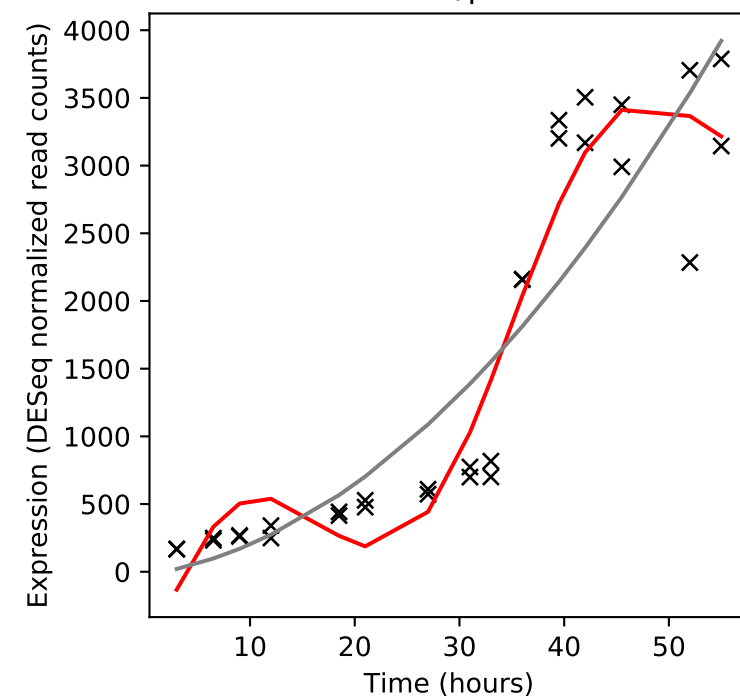
Rv1658/argG



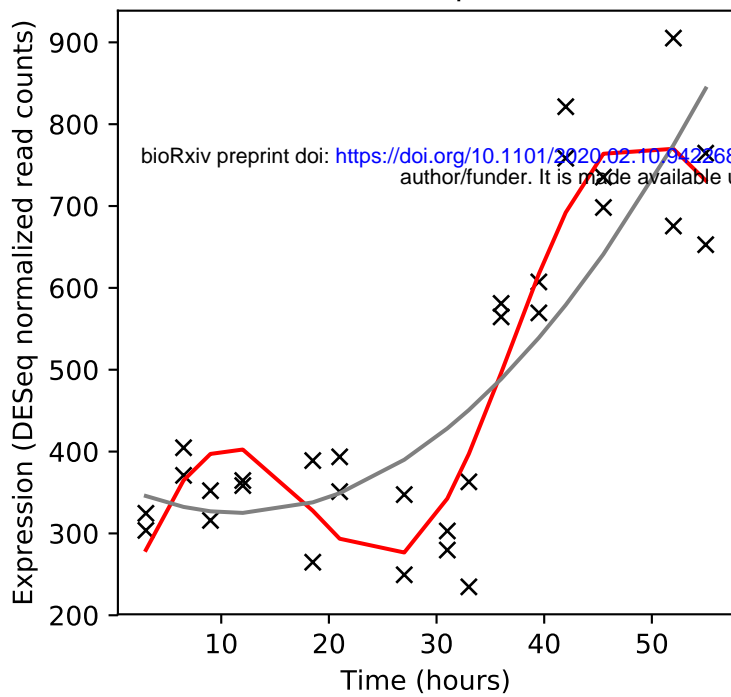
Rv1659/argH



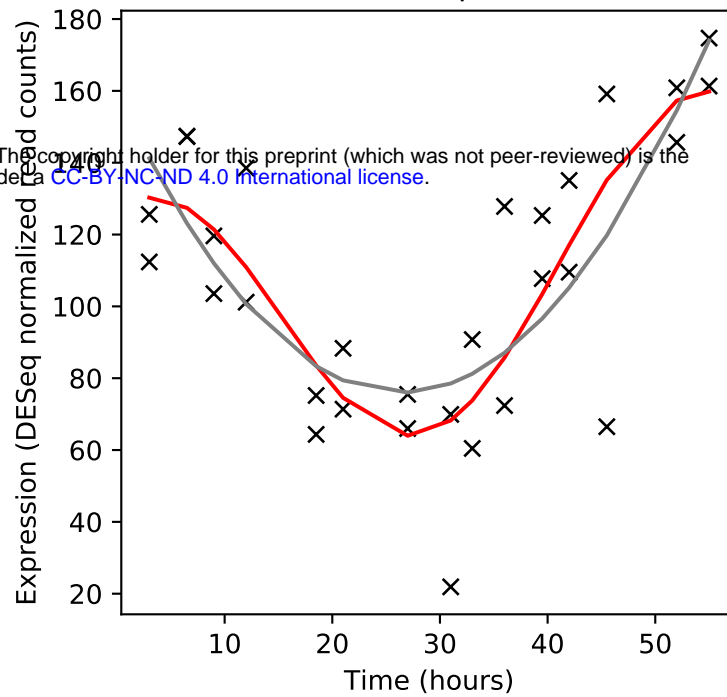
Rv1660/pks10



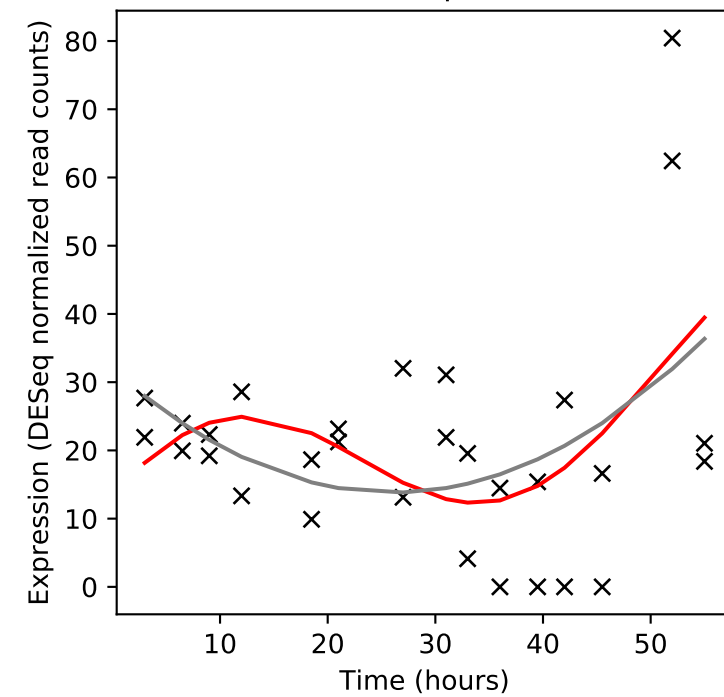
Rv1661/pks7



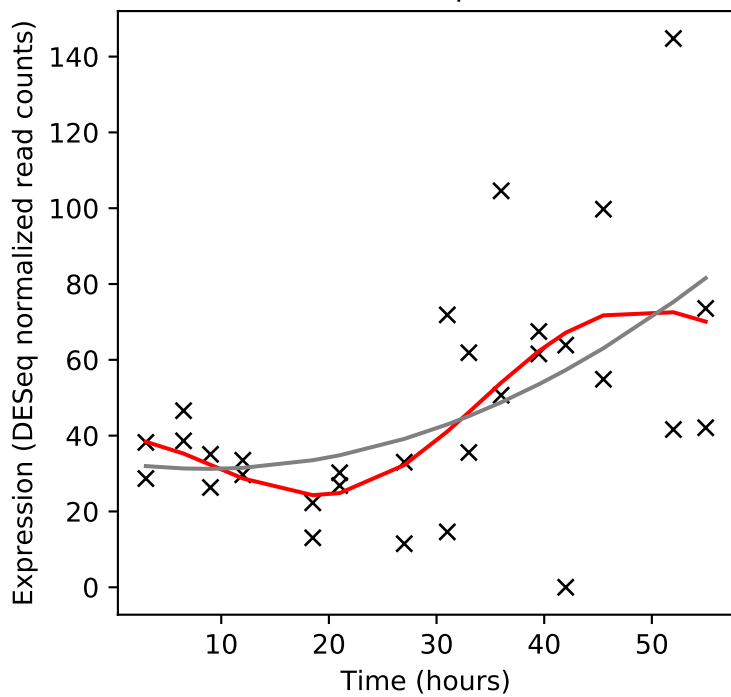
Rv1662/pks8



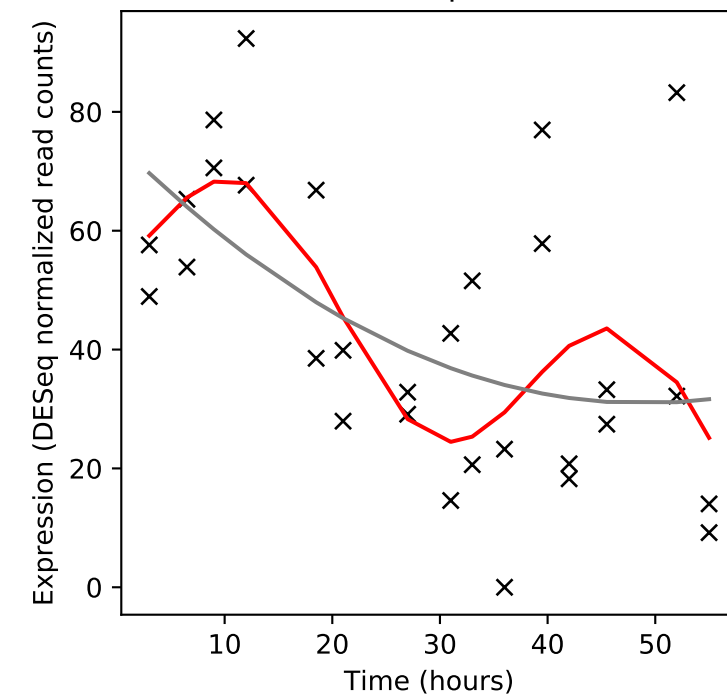
Rv1663/pks17



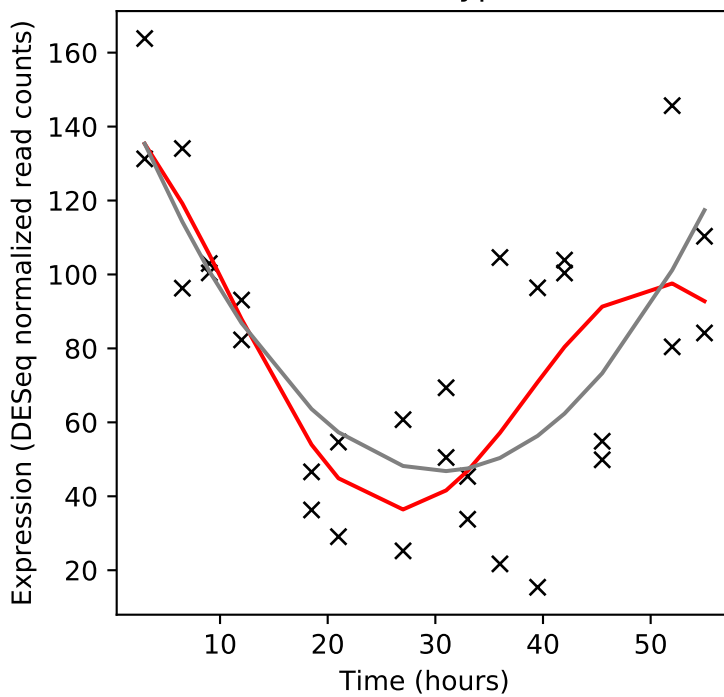
Rv1664/pks9



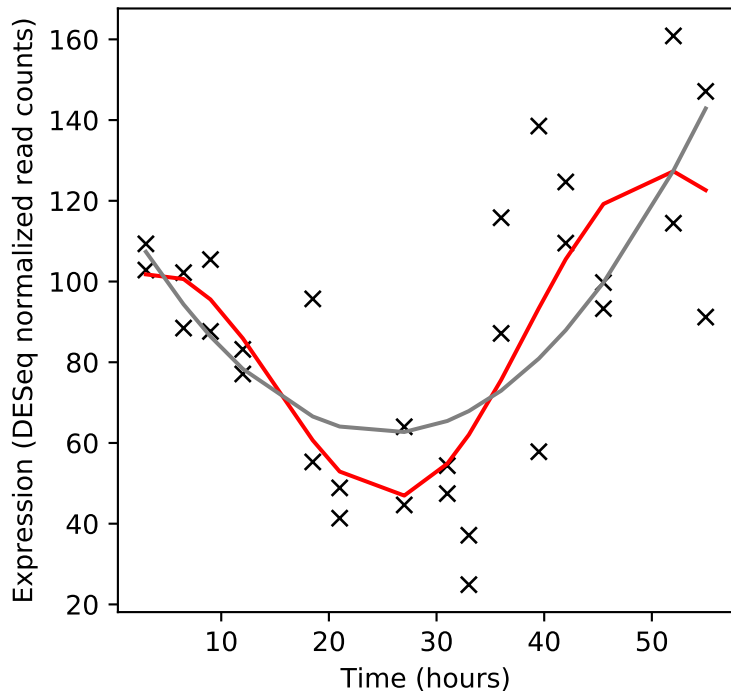
Rv1665/pks11



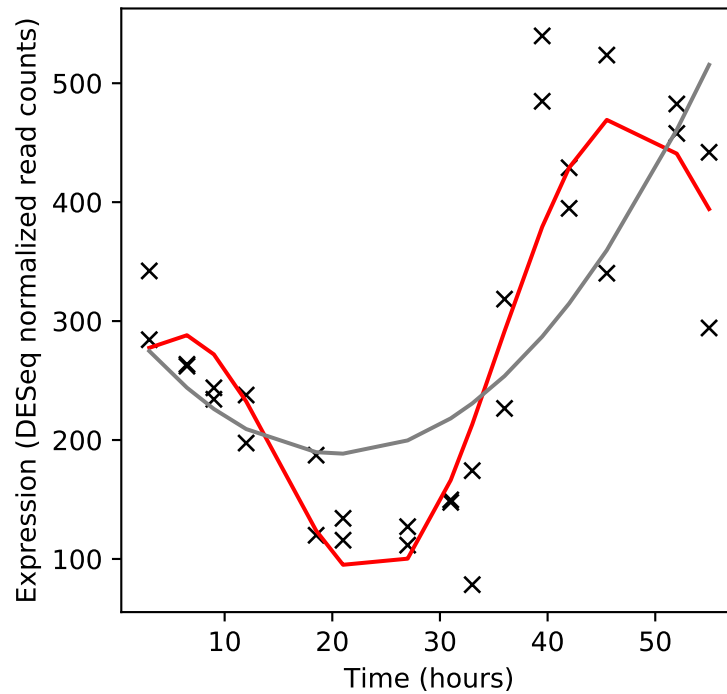
Rv1666c/cyp139



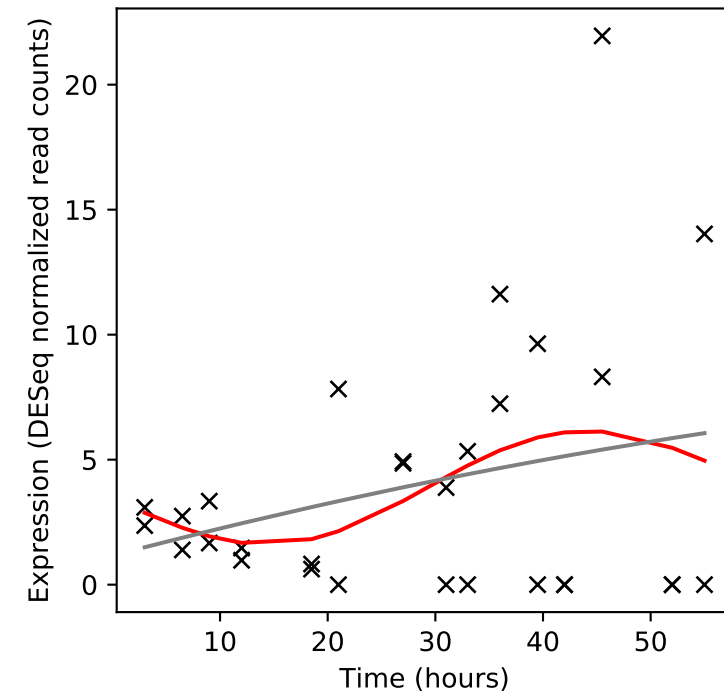
Rv1667c/-



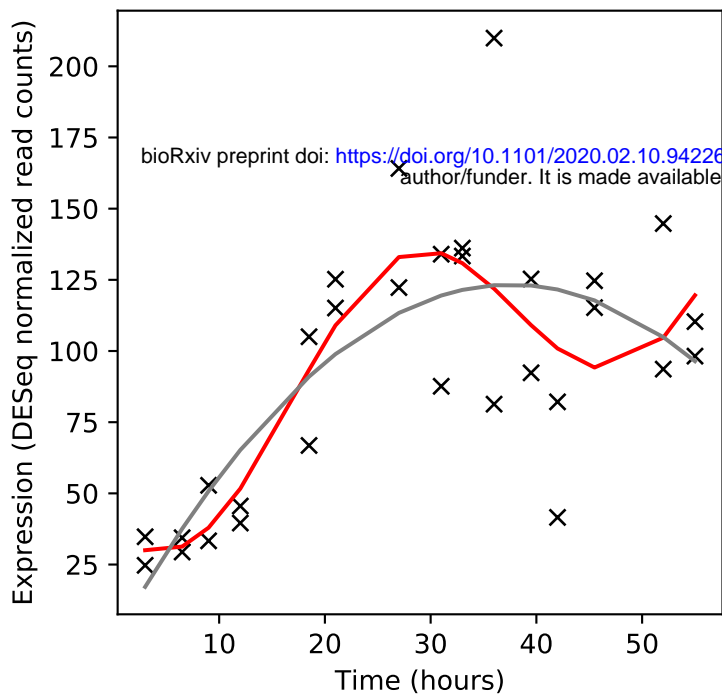
Rv1668c/-



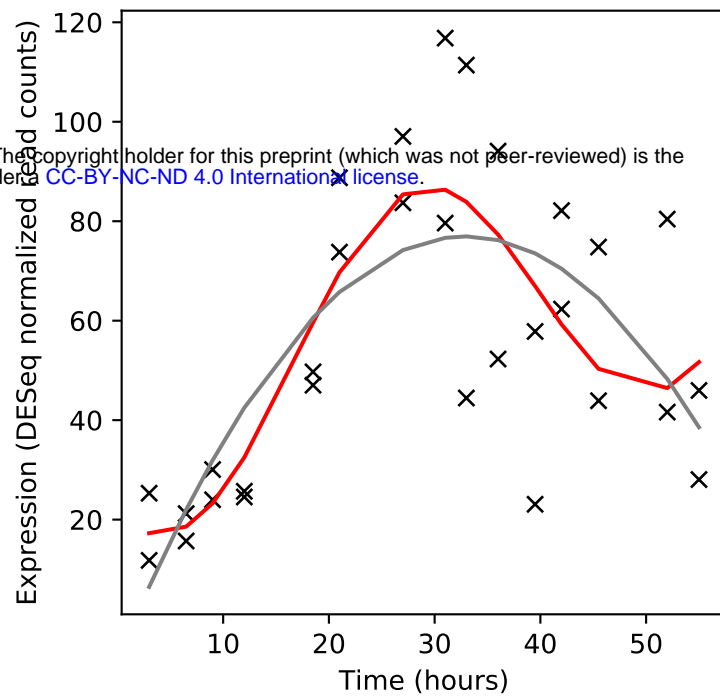
Rv1669/-



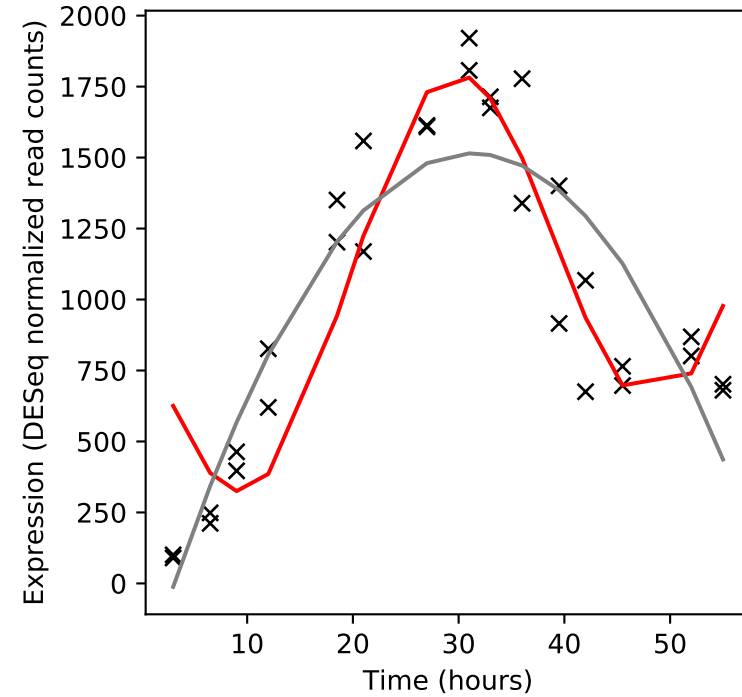
Rv1670/-



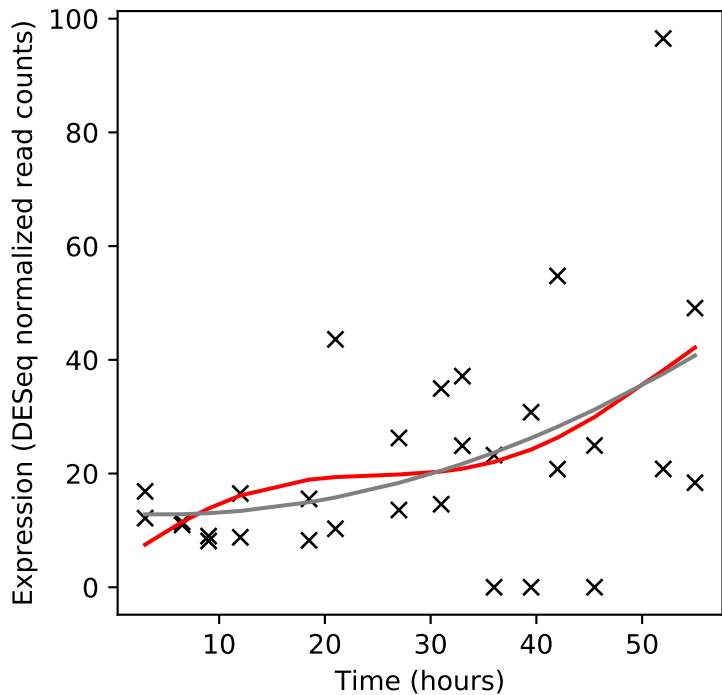
Rv1671/-



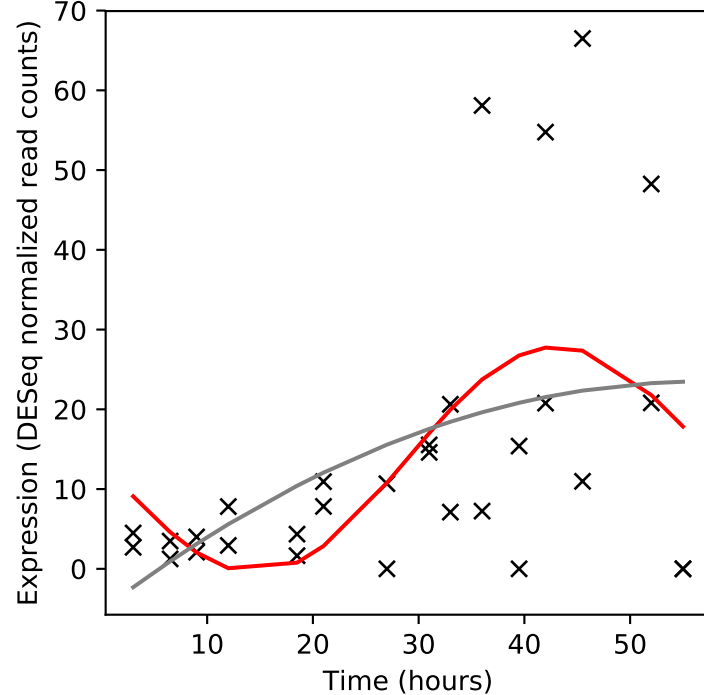
Rv1672c/-



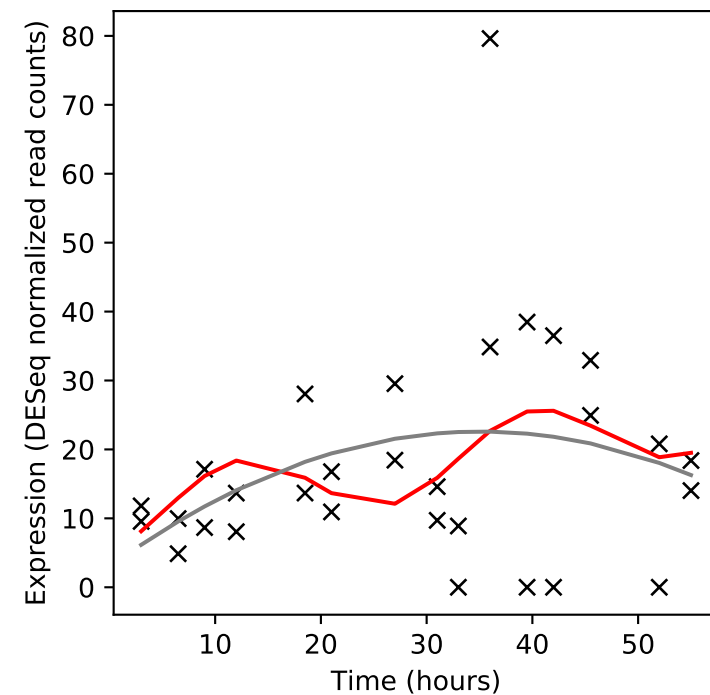
Rv1673c/-



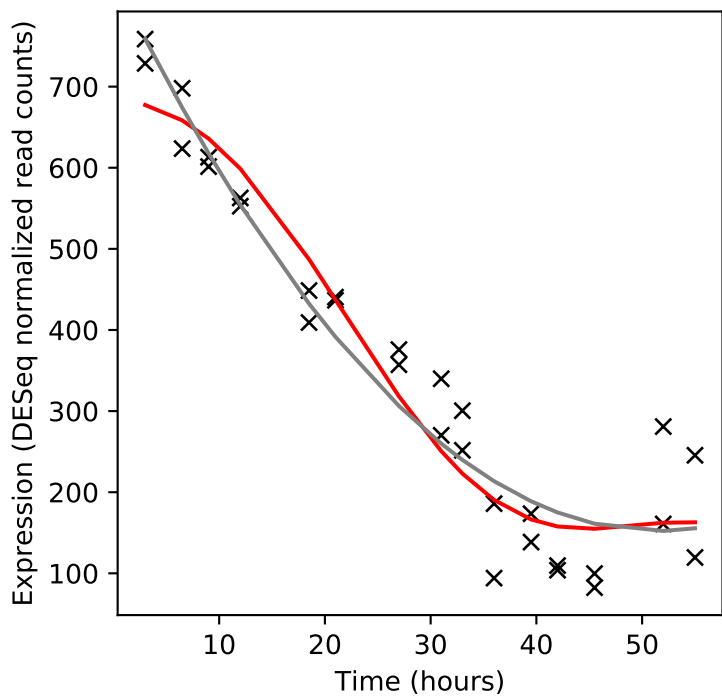
Rv1674c/-



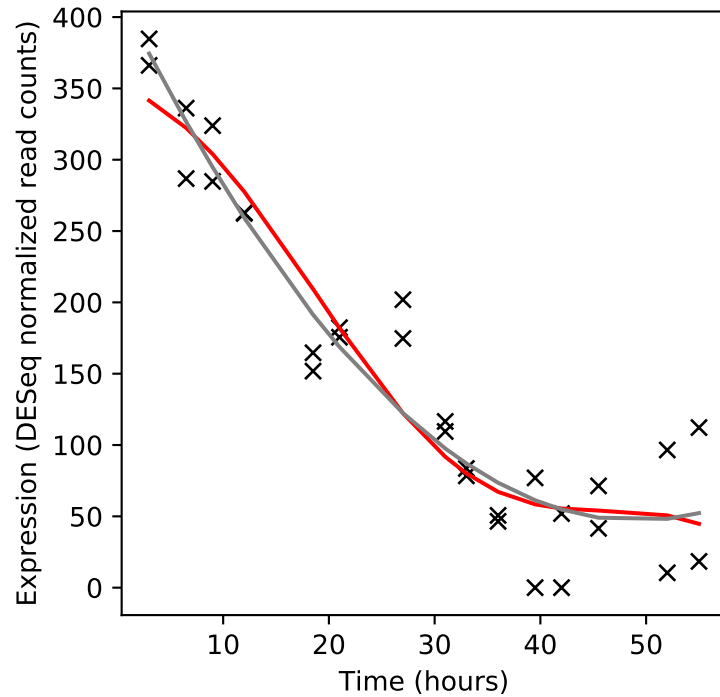
Rv1675c/cmr



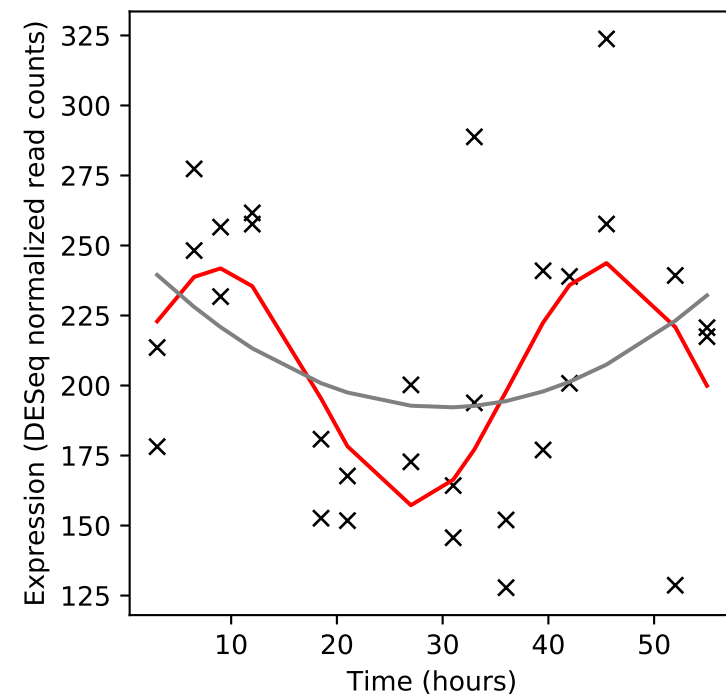
Rv1676/-



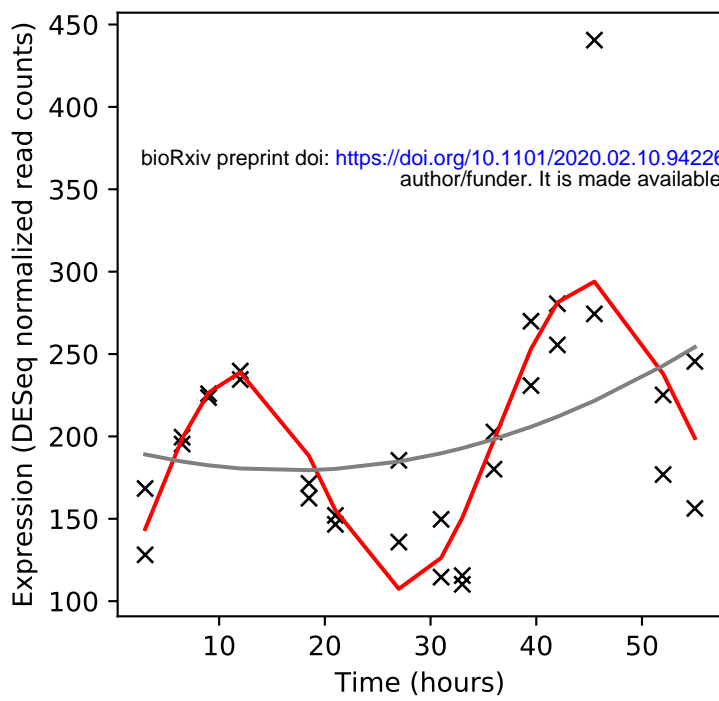
Rv1677/dsbF



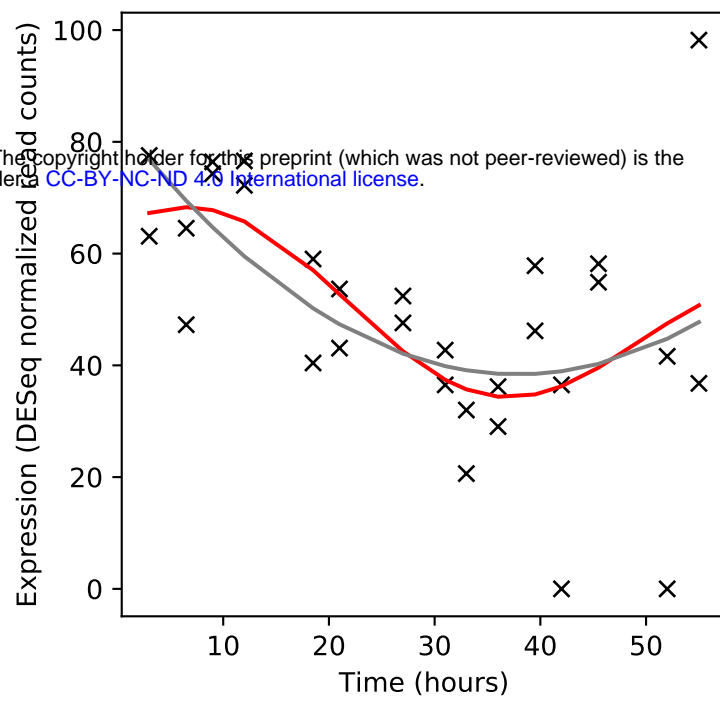
Rv1678/-



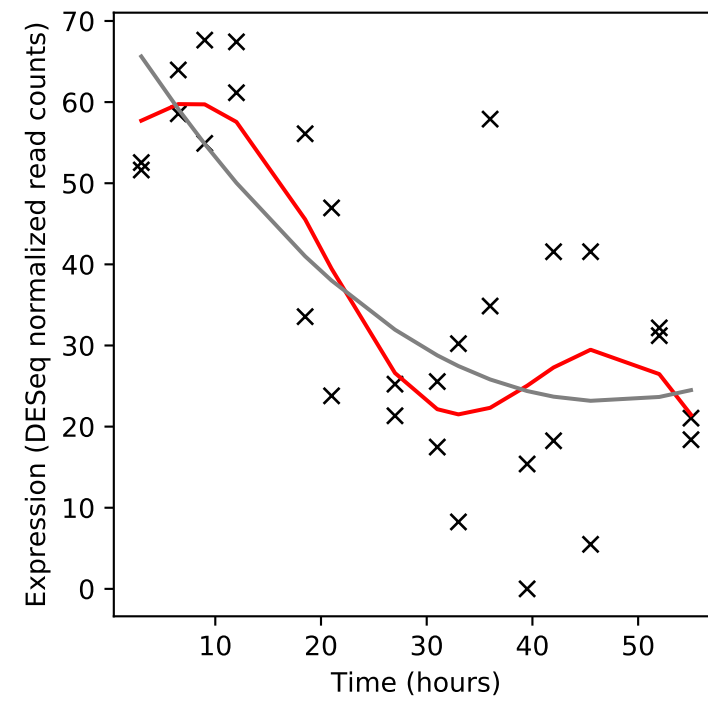
Rv1679/fadE16



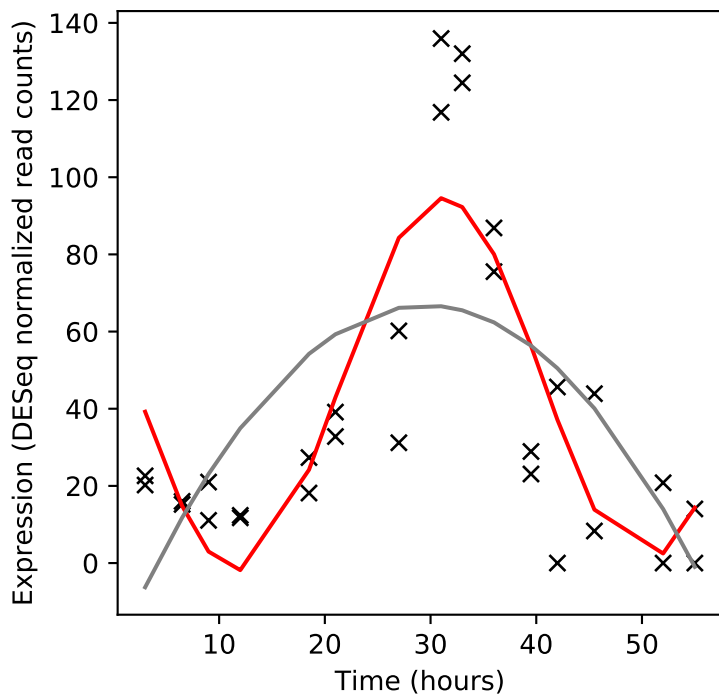
Rv1680/-



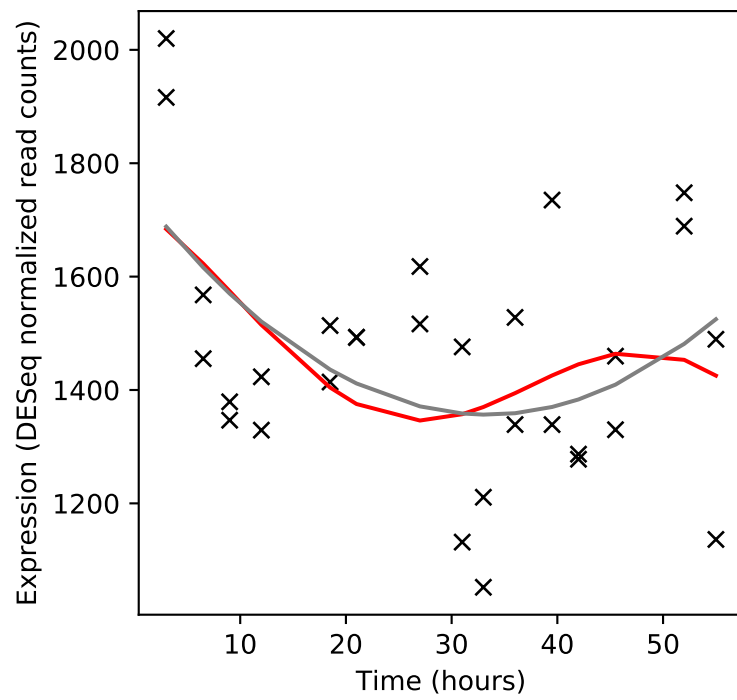
Rv1681/moeX



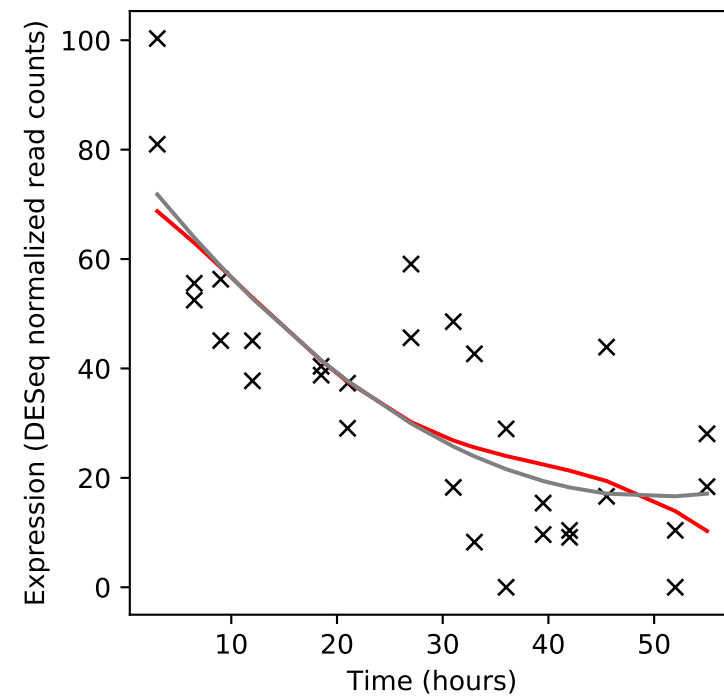
Rv1682/-



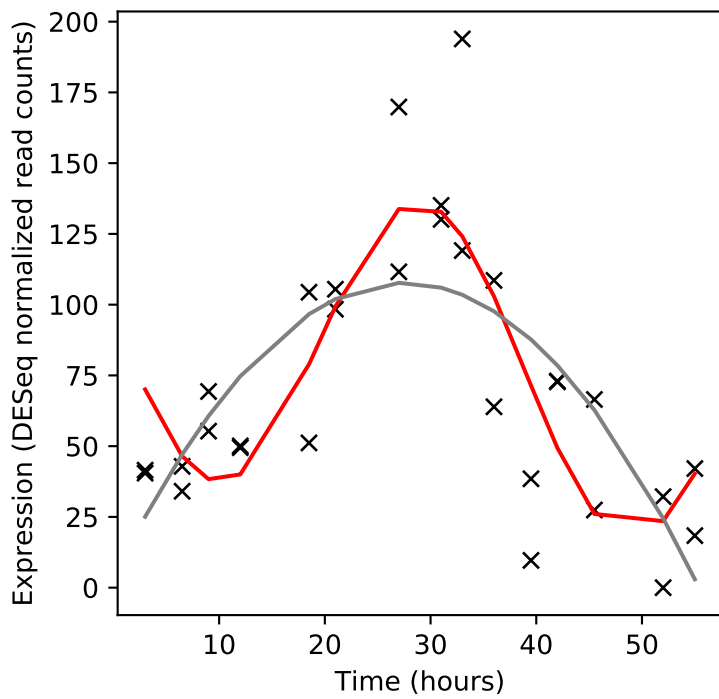
Rv1683/-



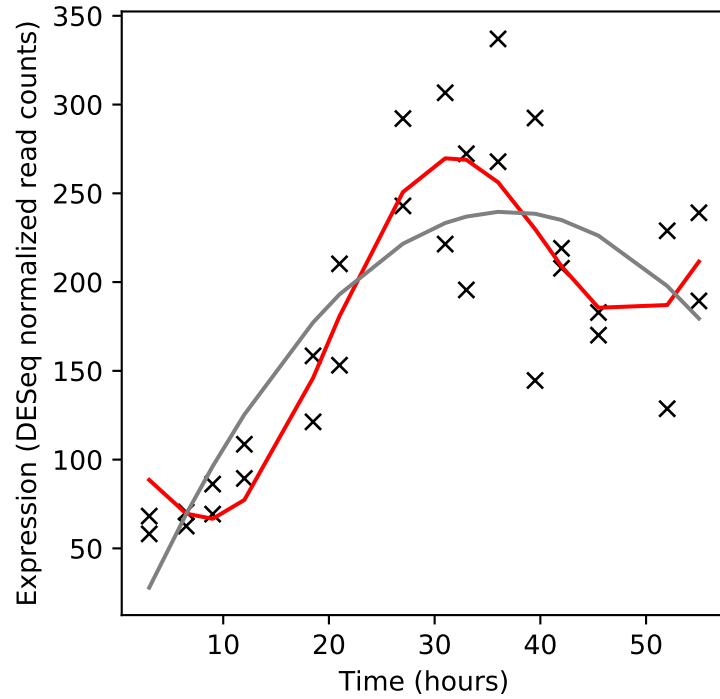
Rv1684/-



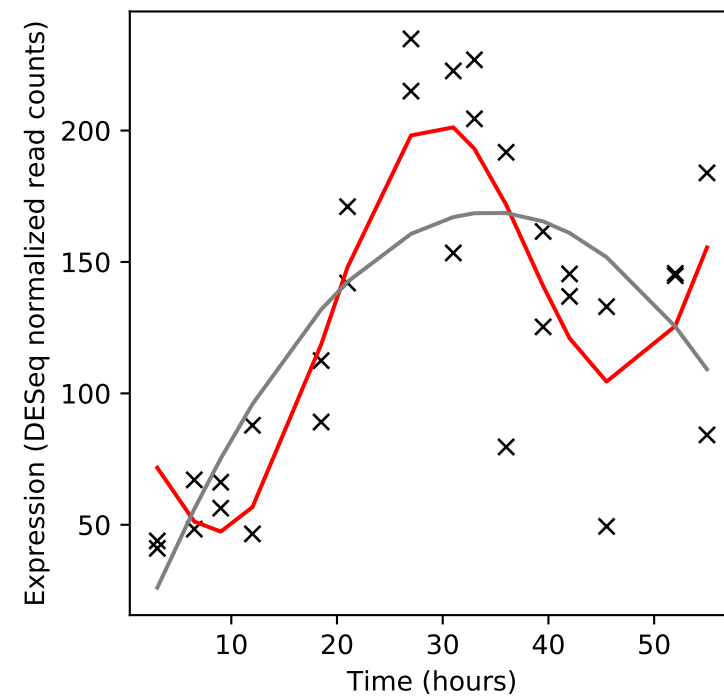
Rv1685c/-



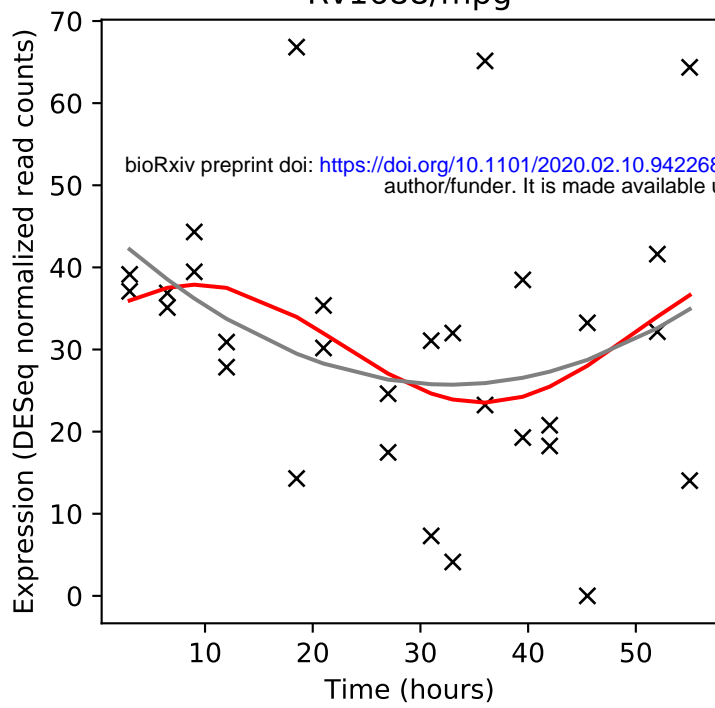
Rv1686c/-



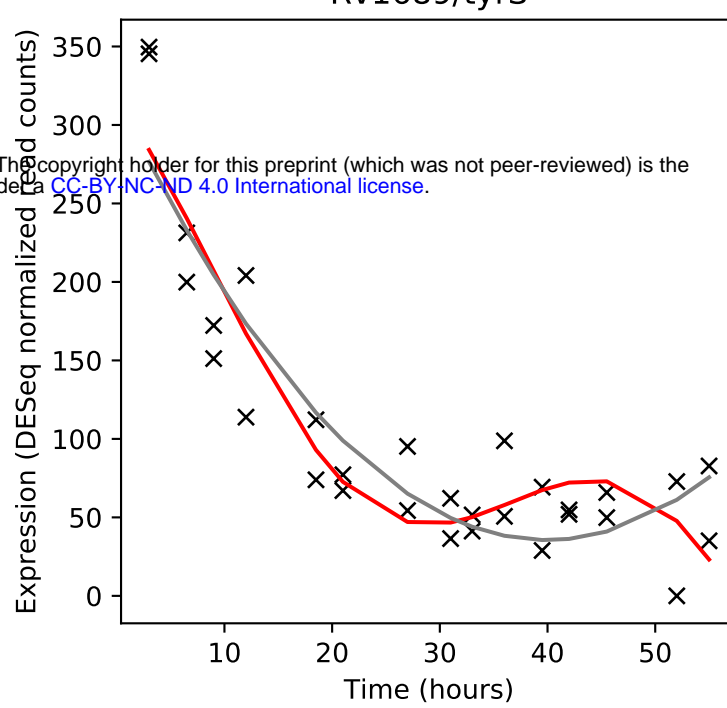
Rv1687c/-



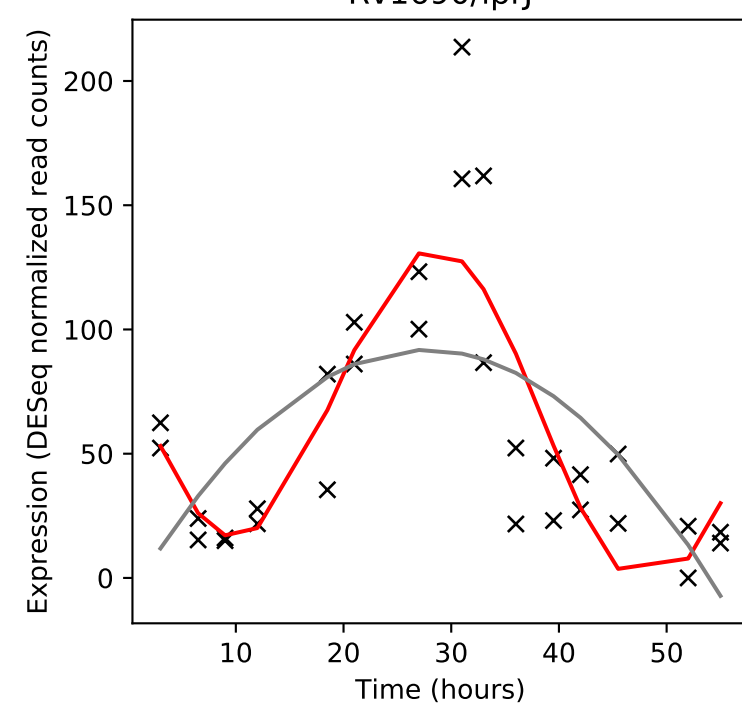
Rv1688/mpg



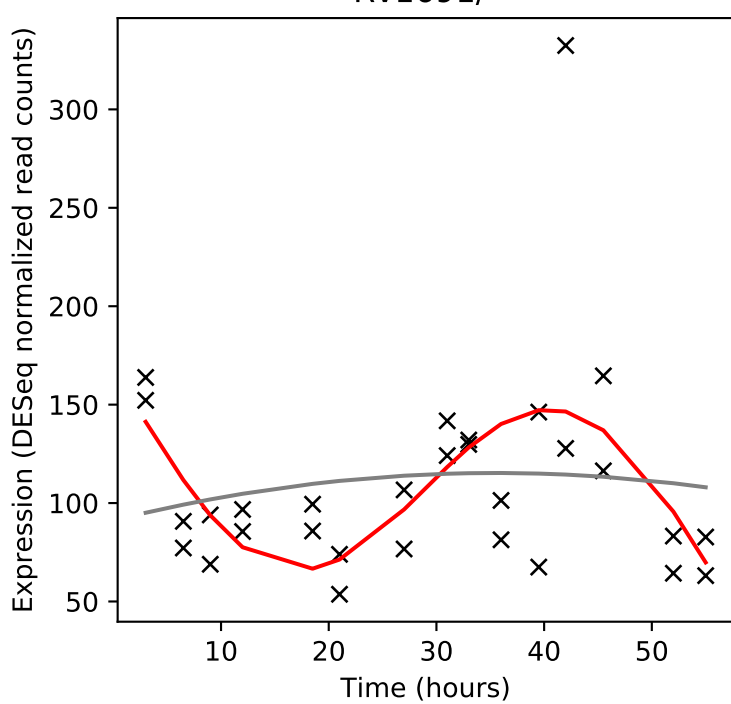
Rv1689/tyrS



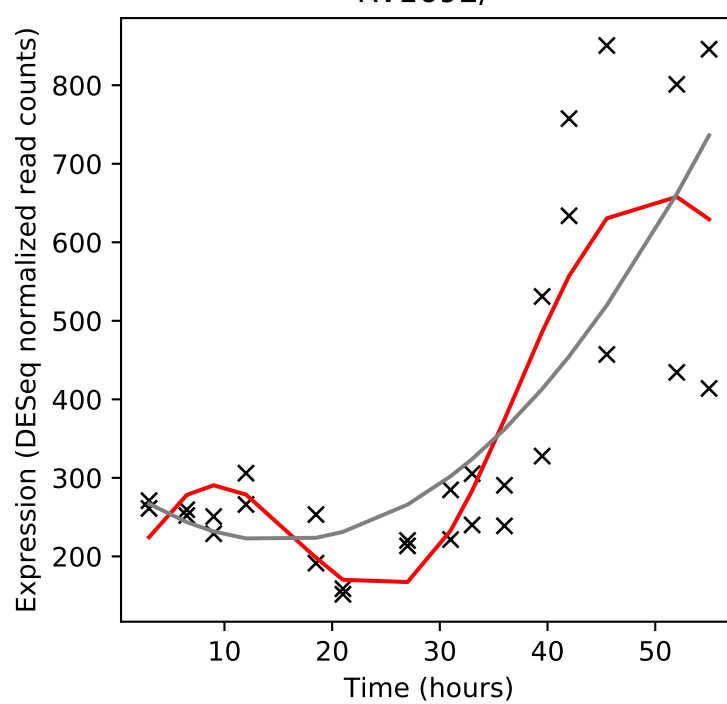
Rv1690/lprJ



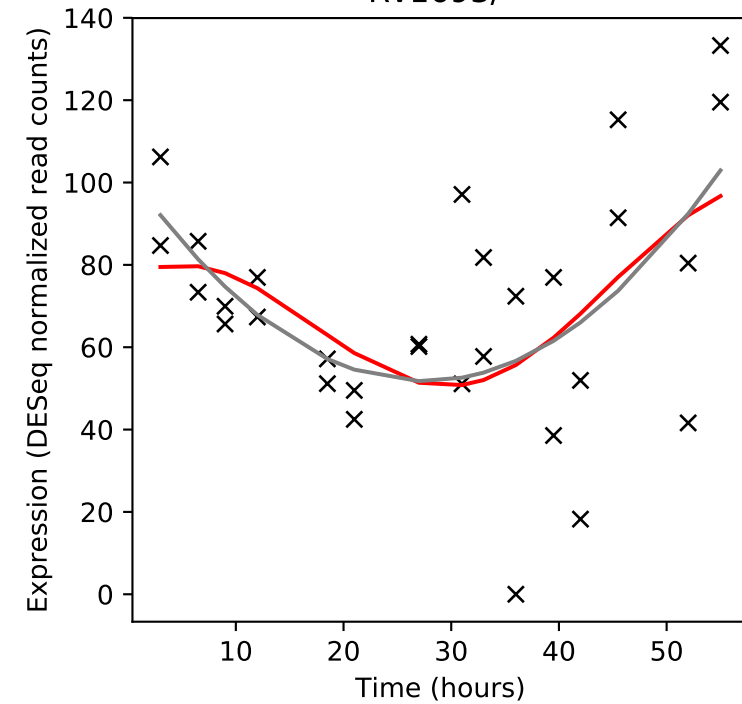
Rv1691/-



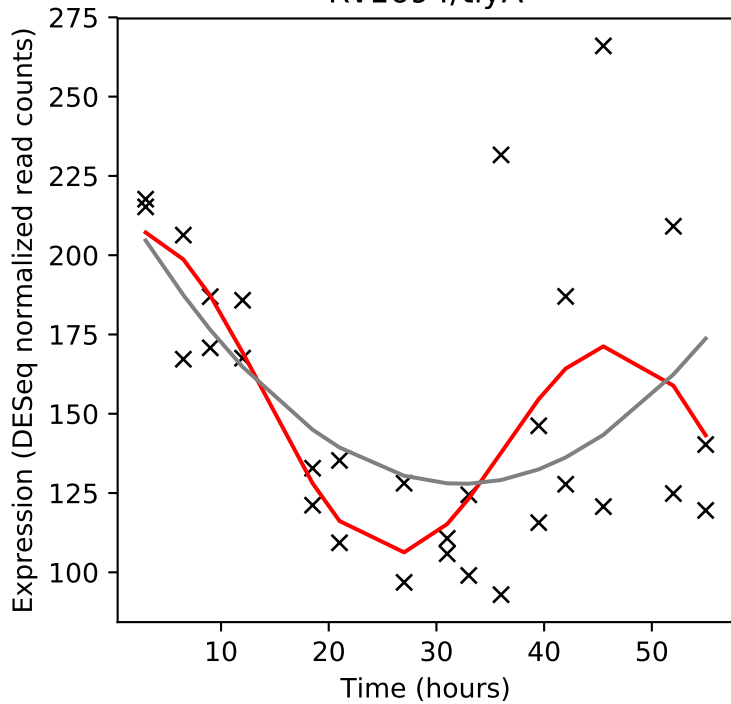
Rv1692/-



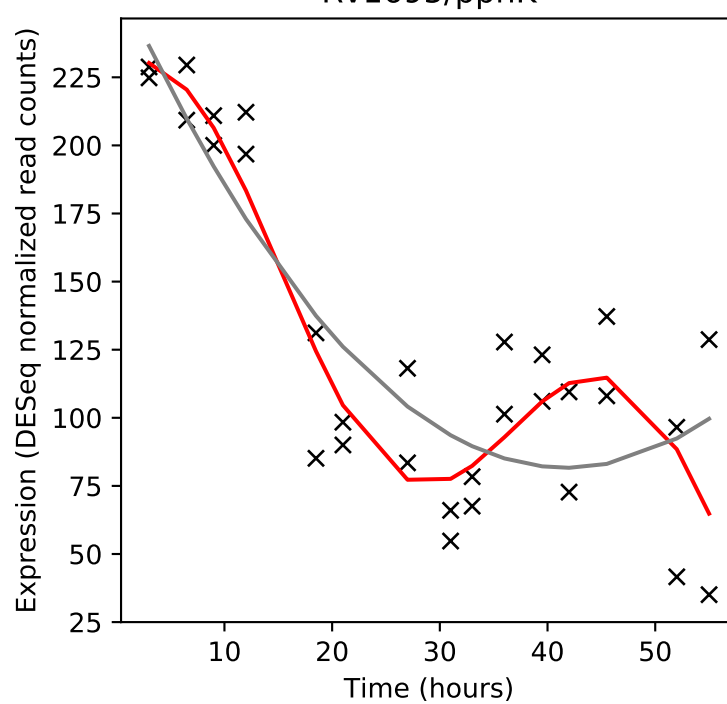
Rv1693/-



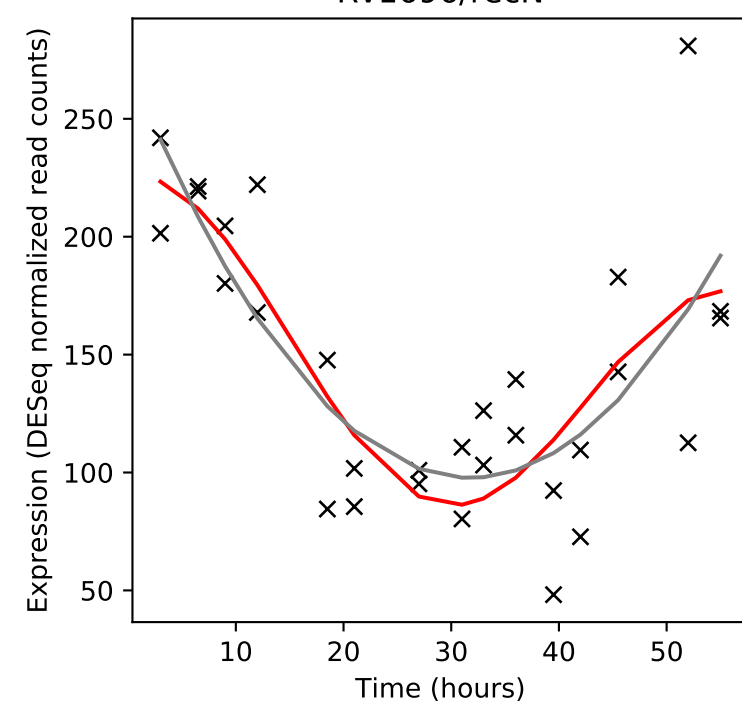
Rv1694/tlyA



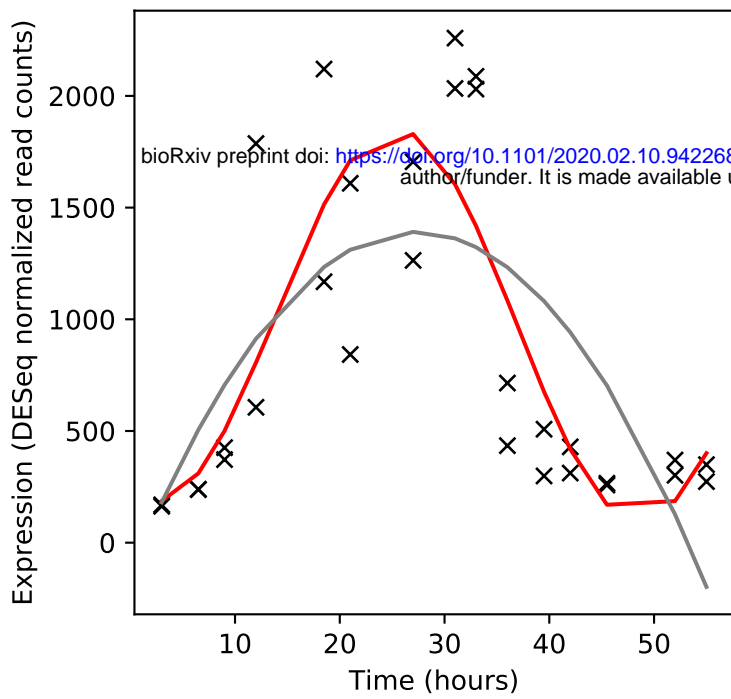
Rv1695/ppnK



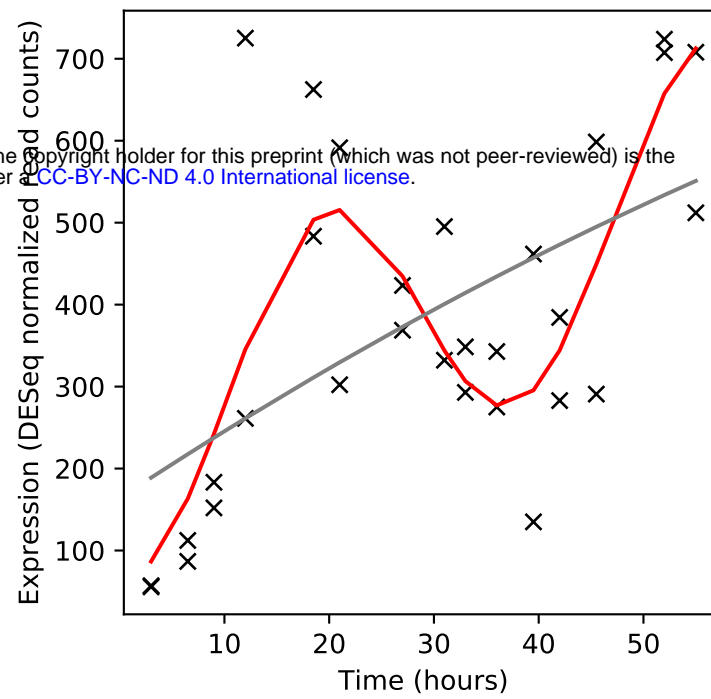
Rv1696/recN



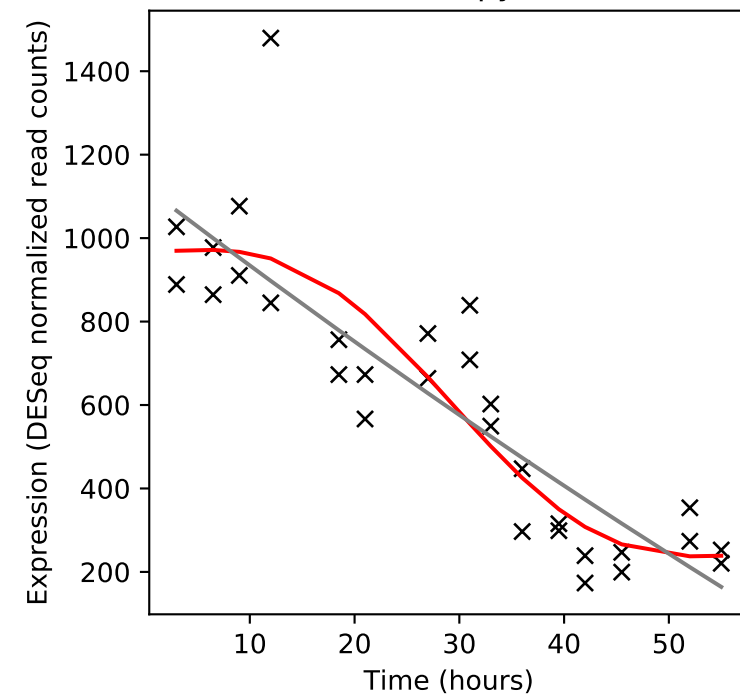
Rv1697/-



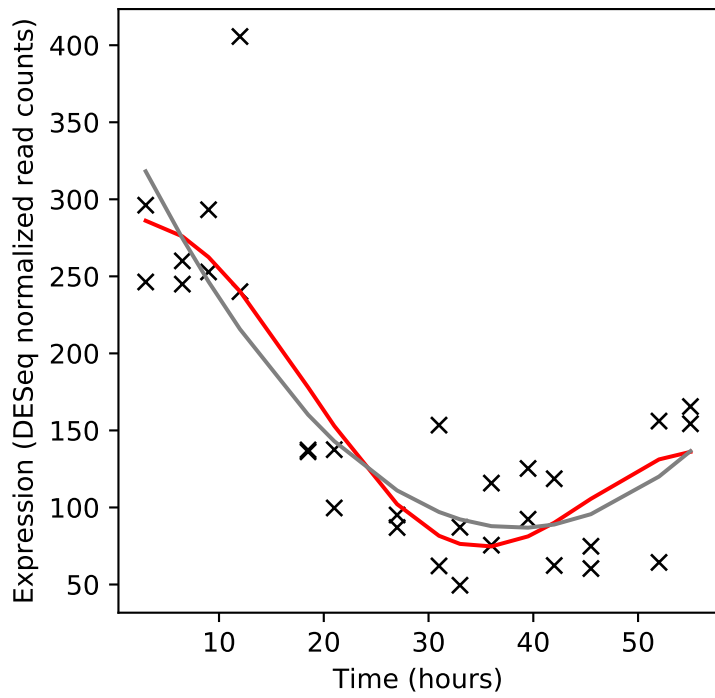
Rv1698/mctB



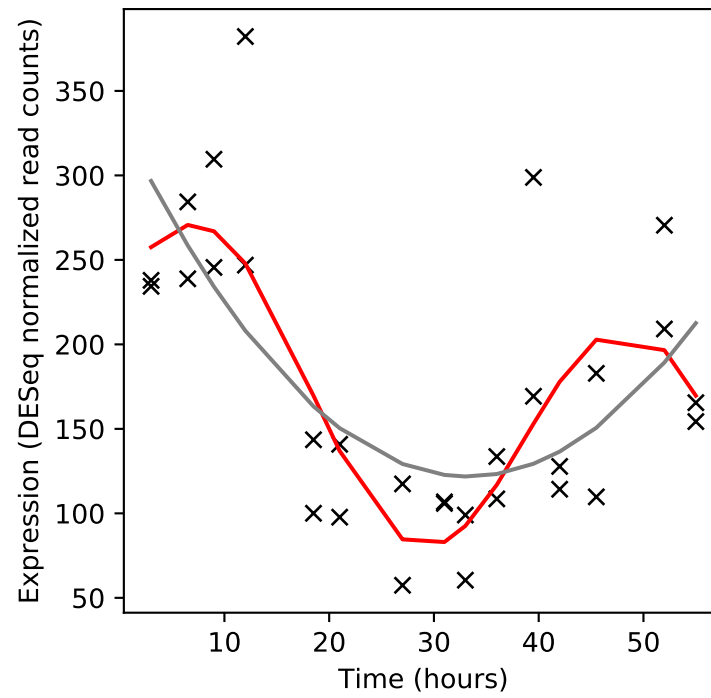
Rv1699/pyrG



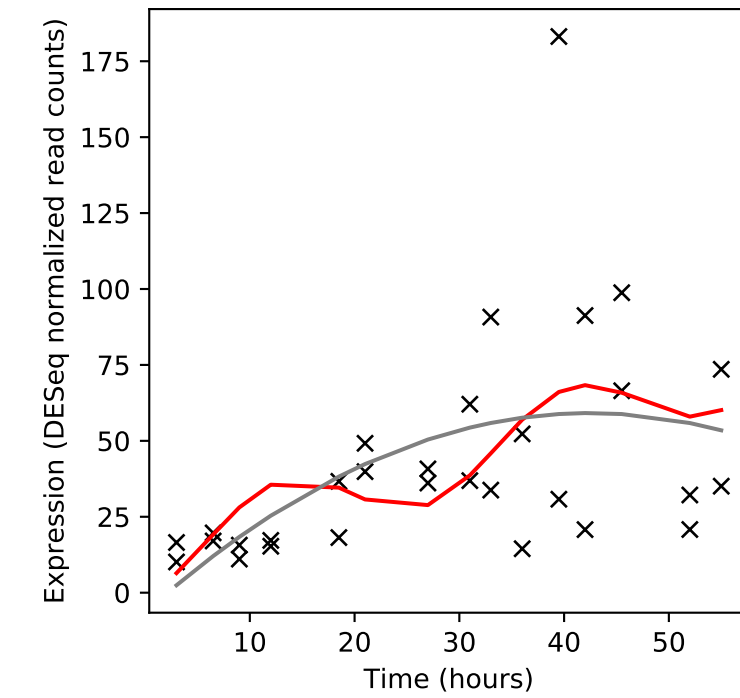
Rv1700/-



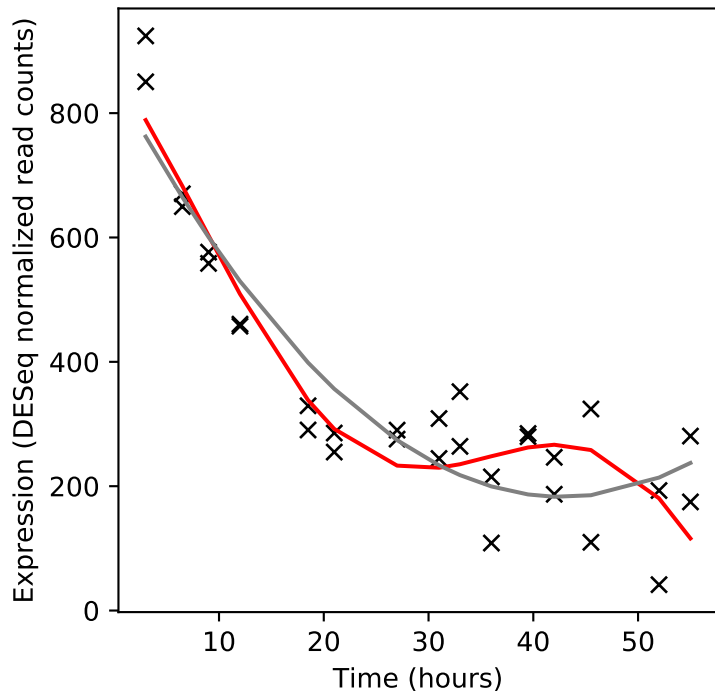
Rv1701/-



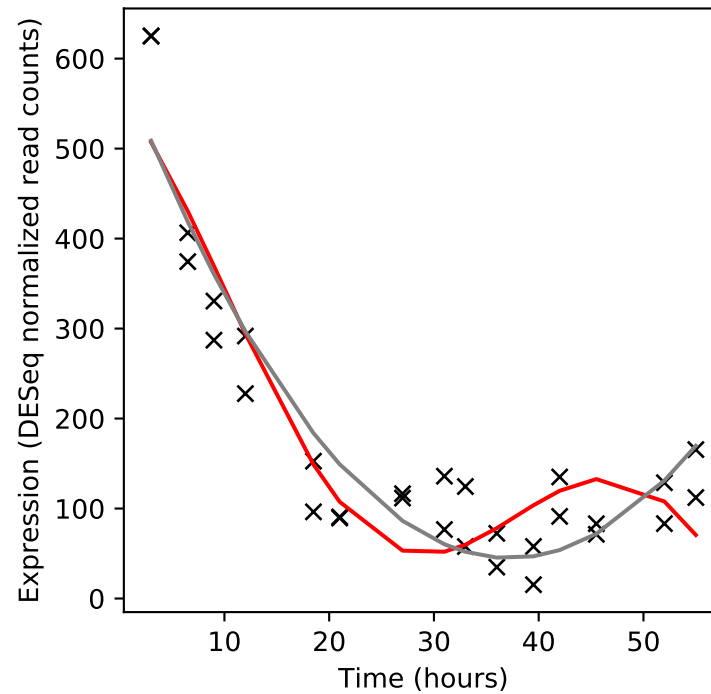
Rv1702c/-



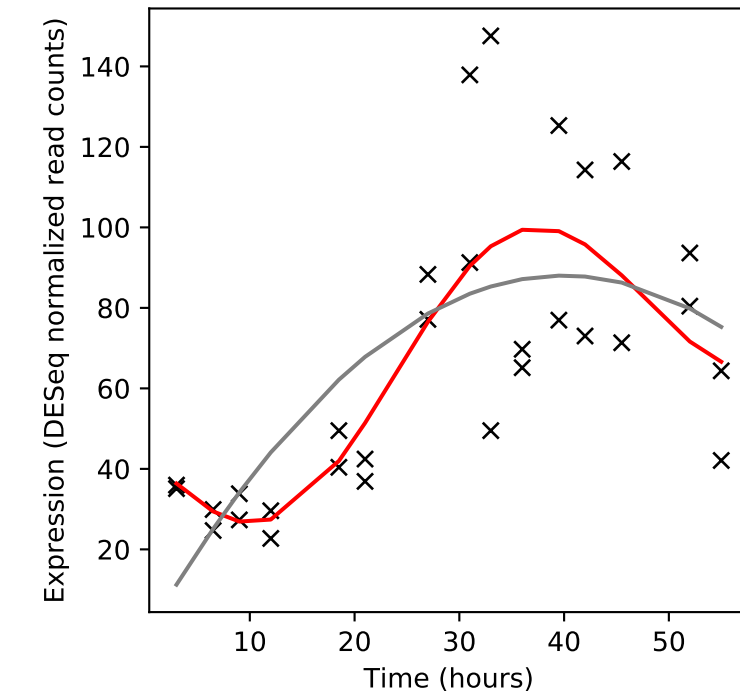
Rv1703c/-



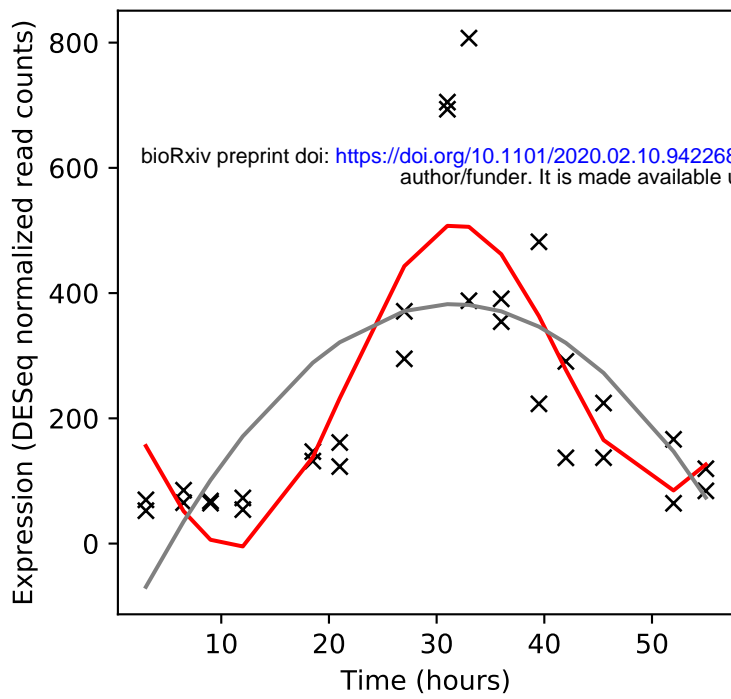
Rv1704c/cycA



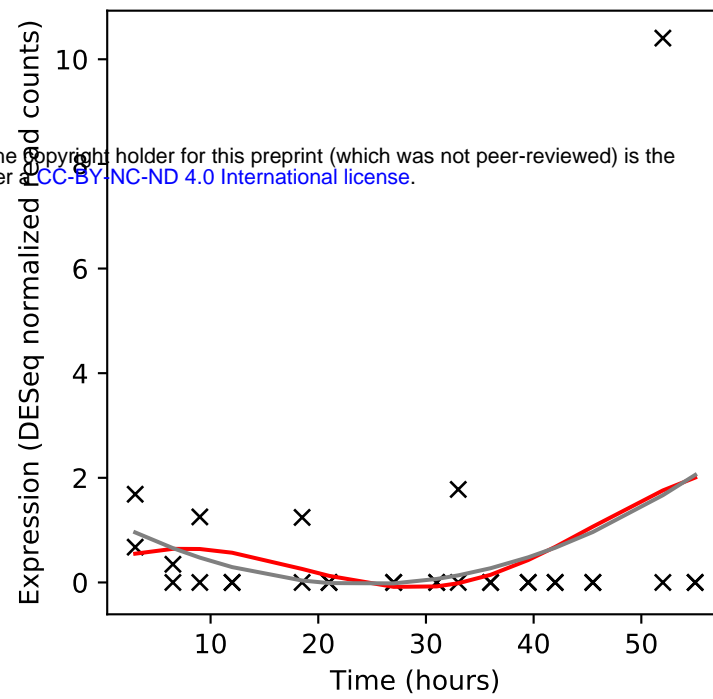
Rv1705c/PPE22



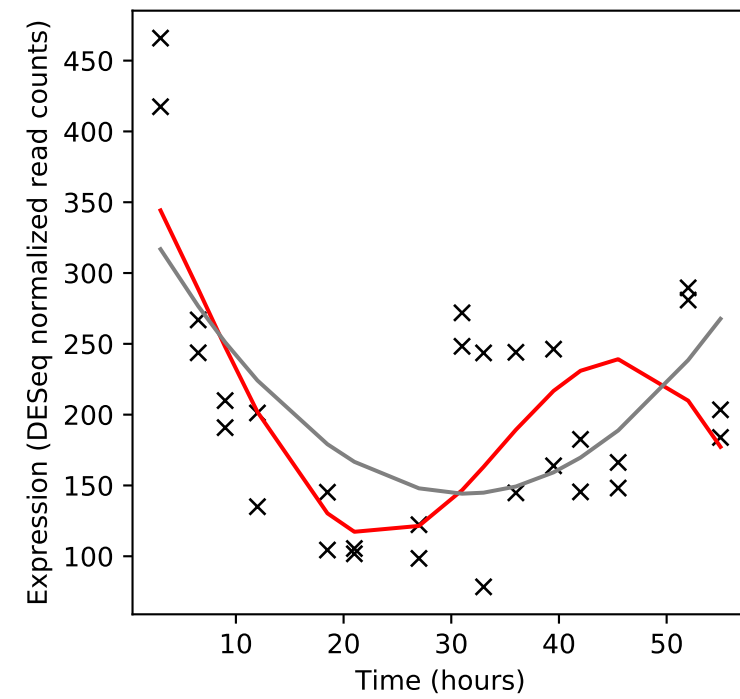
Rv1706c/PPE23



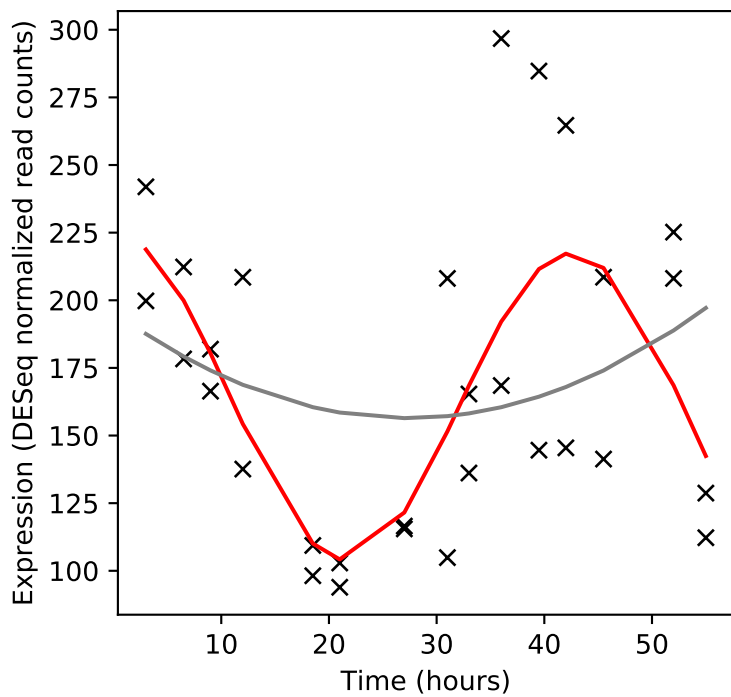
Rv1706A/-



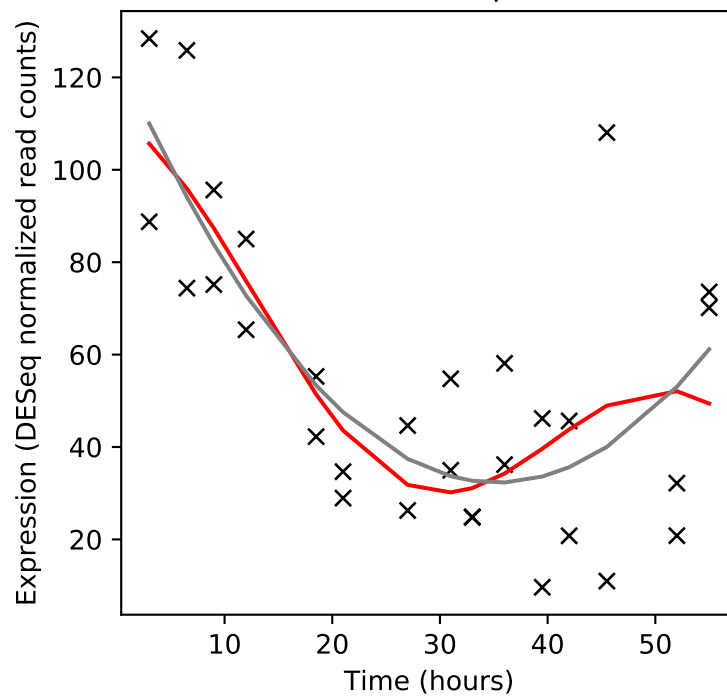
Rv1707/-



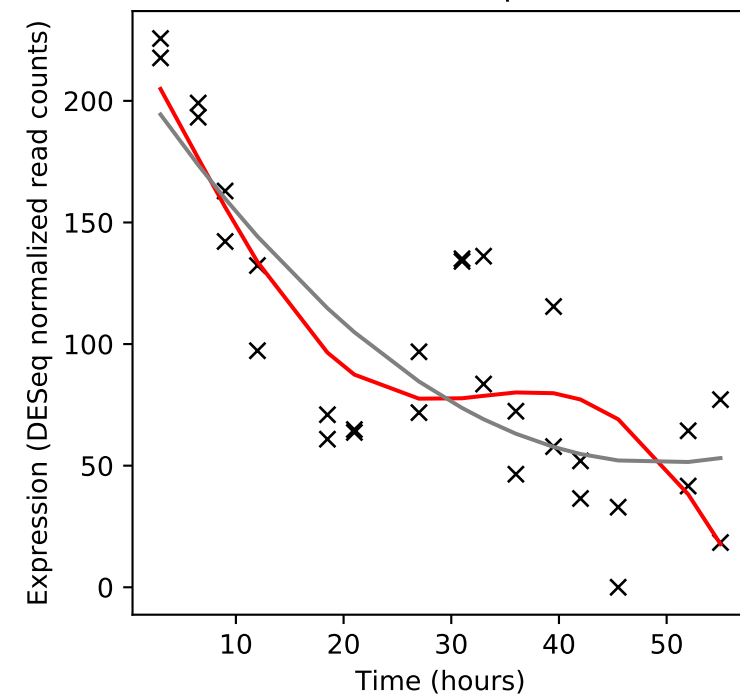
Rv1708/-



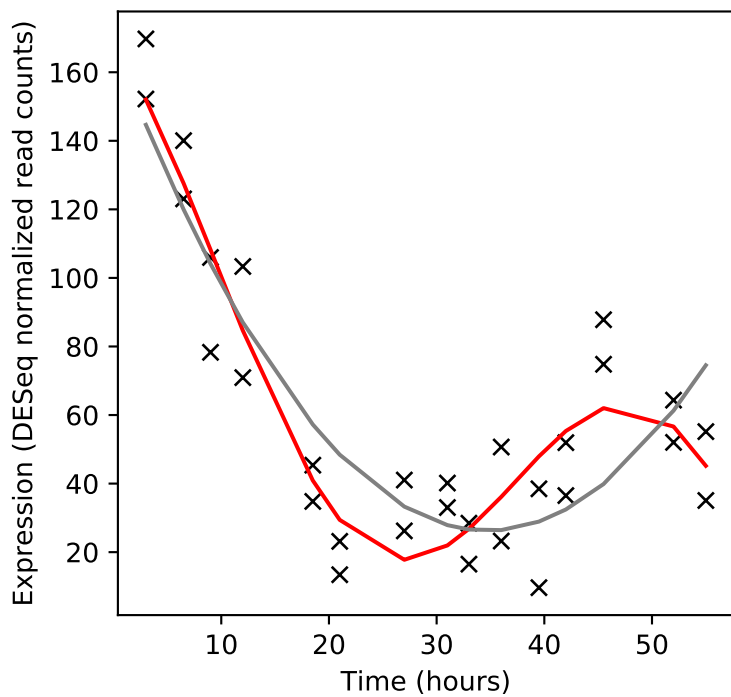
Rv1709/scpA



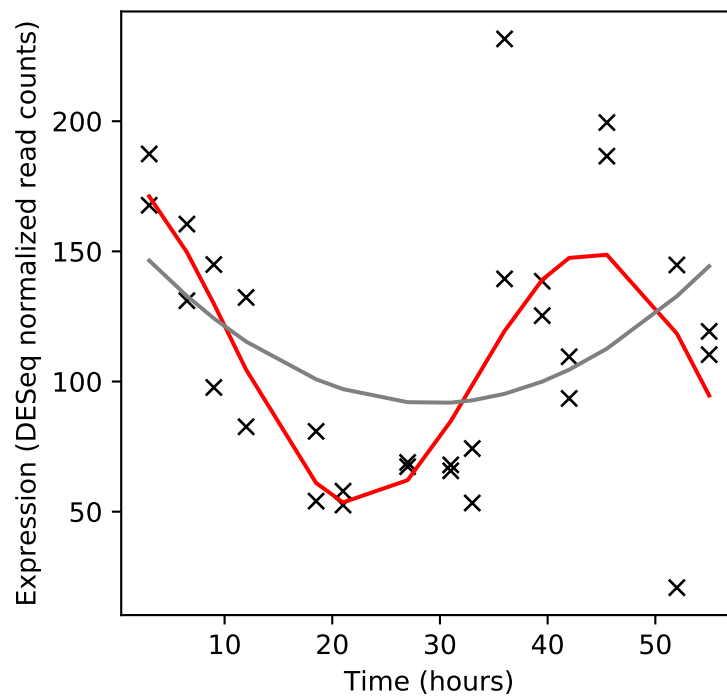
Rv1710/scpB



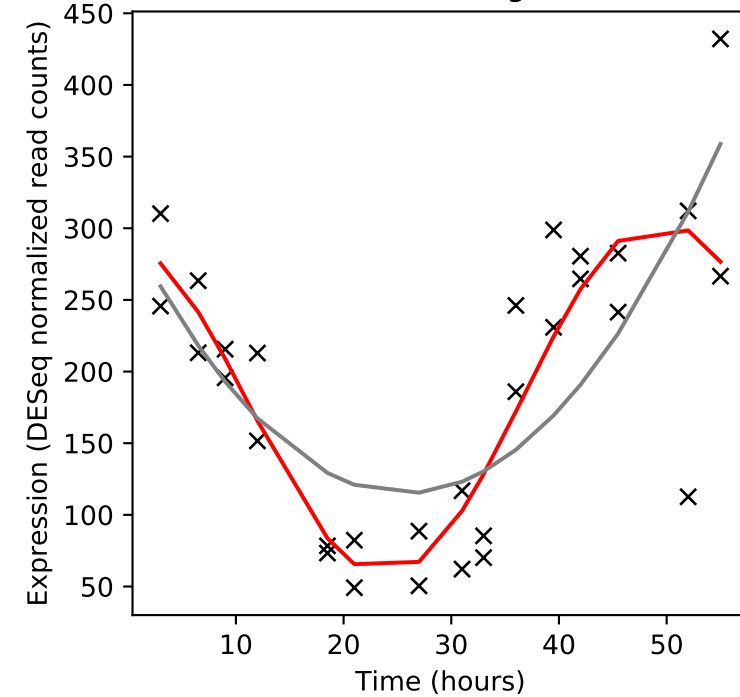
Rv1711/-



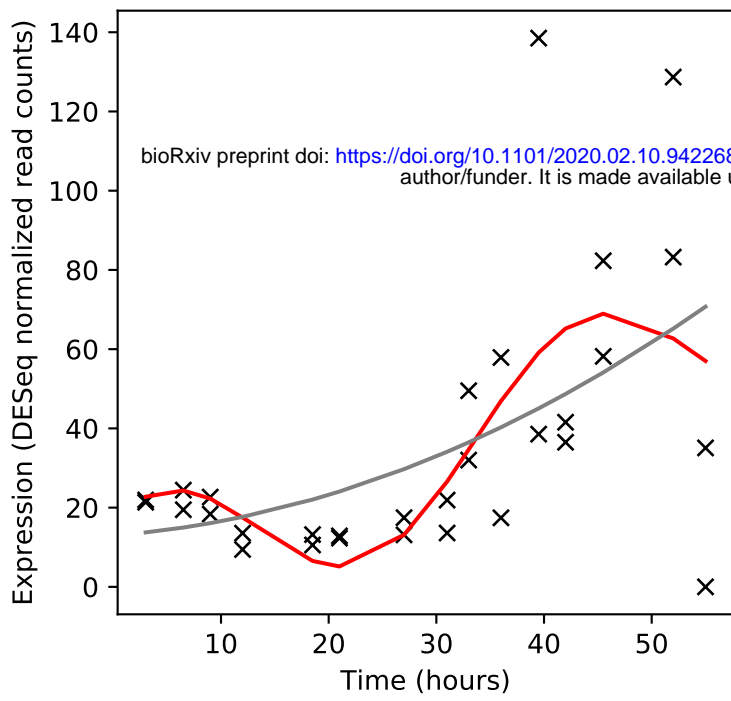
Rv1712/cmK



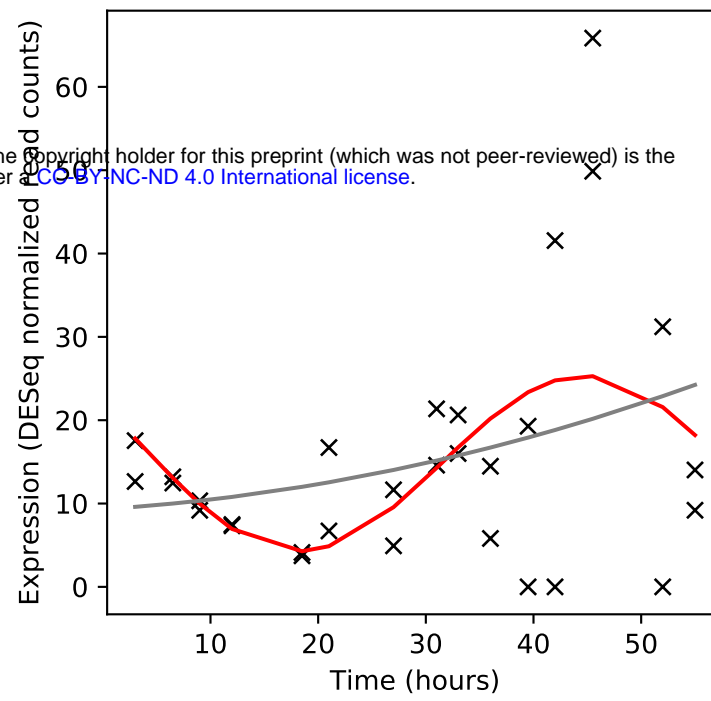
Rv1713/engA



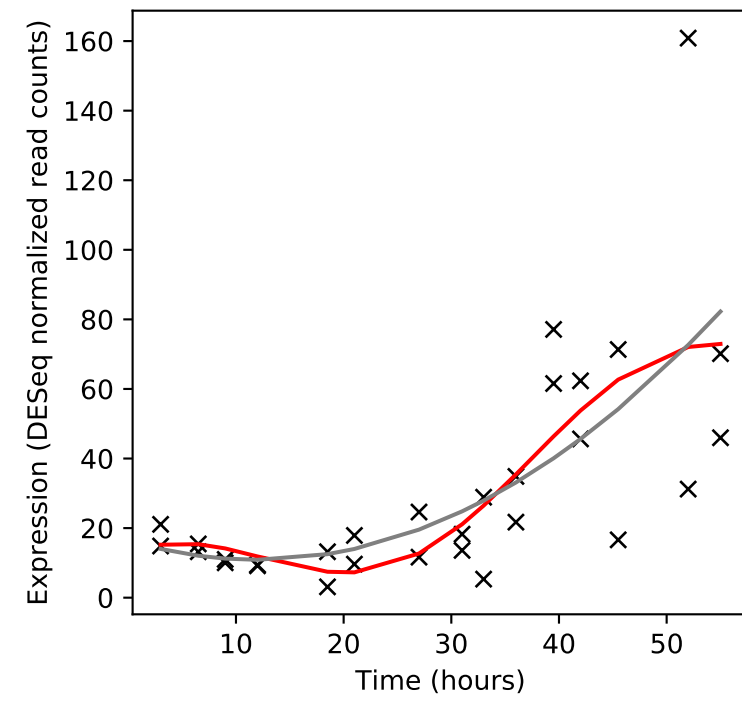
Rv1714/-



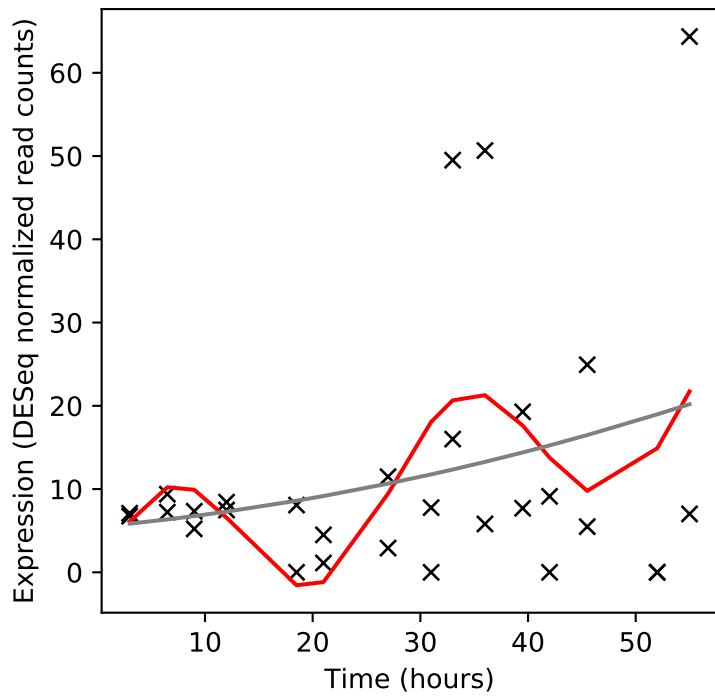
Rv1715/fadB3



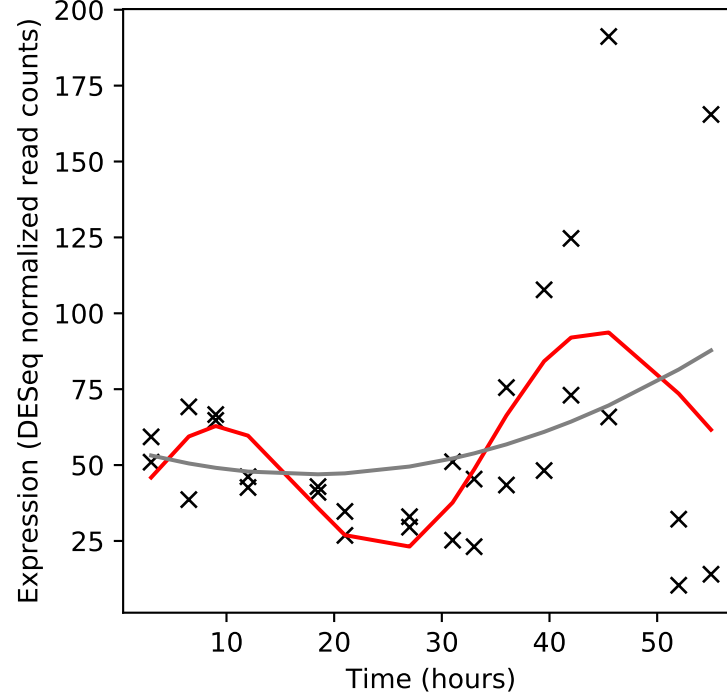
Rv1716/-



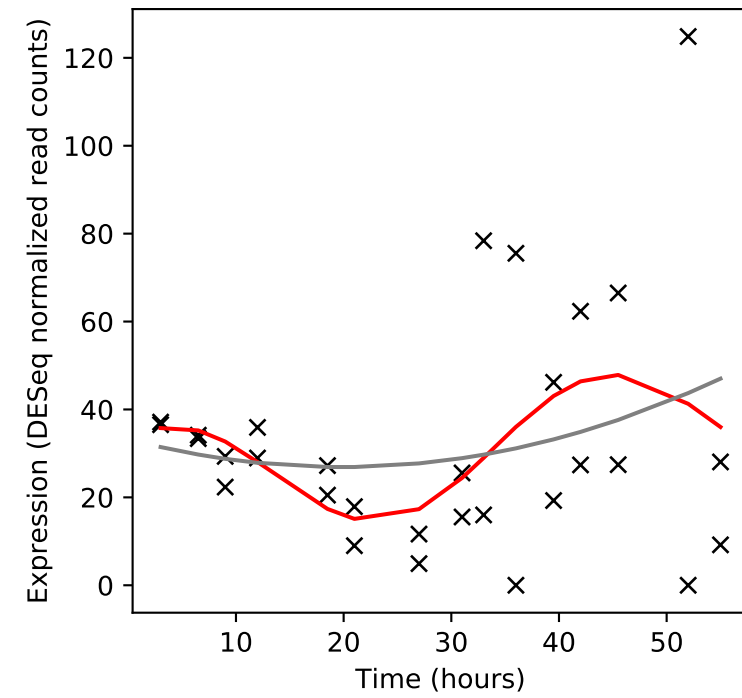
Rv1717/-



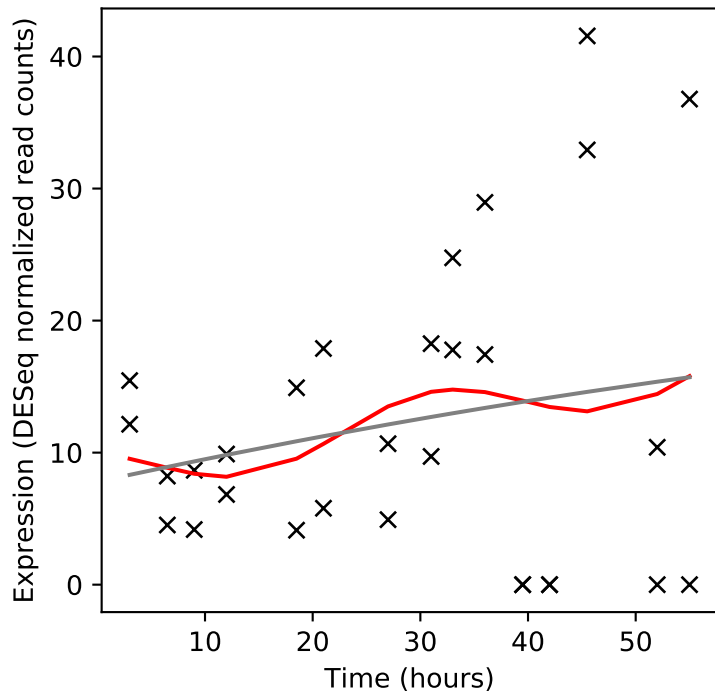
Rv1718/-



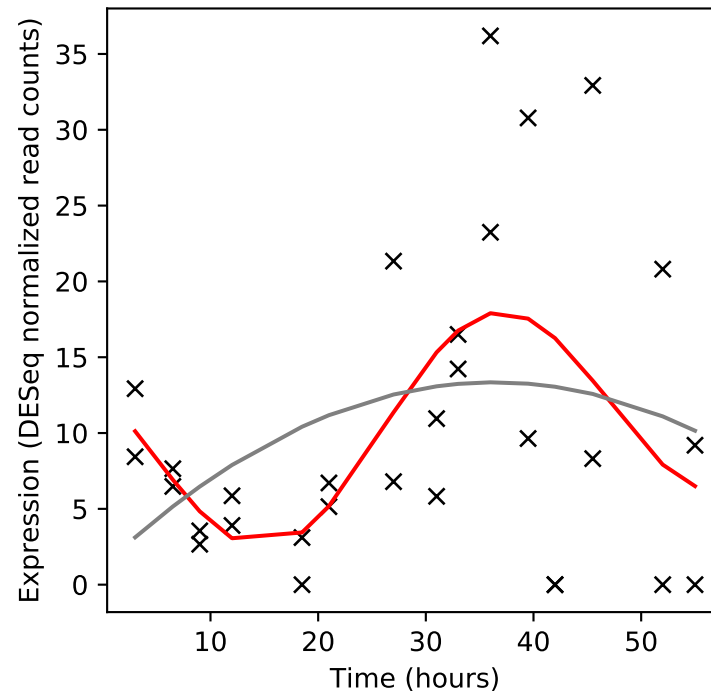
Rv1719/-



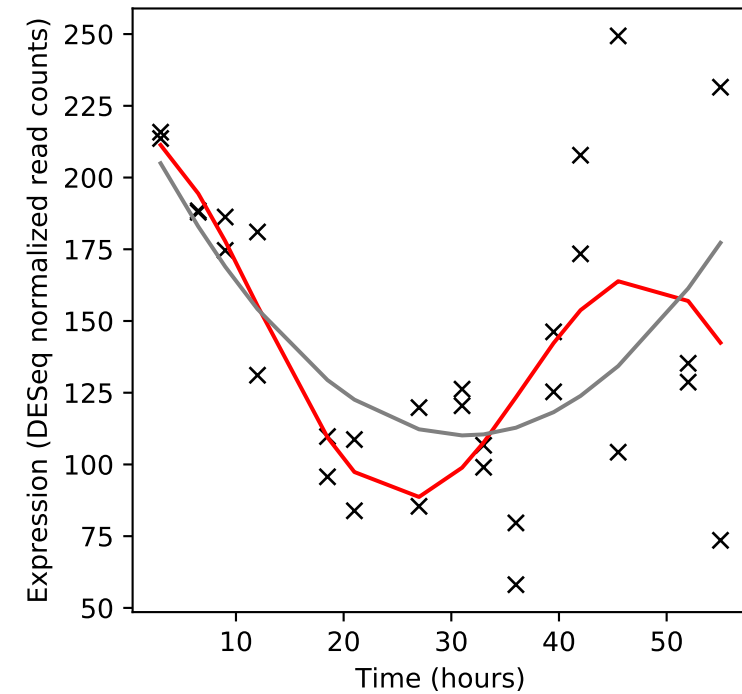
Rv1720c/vapC12



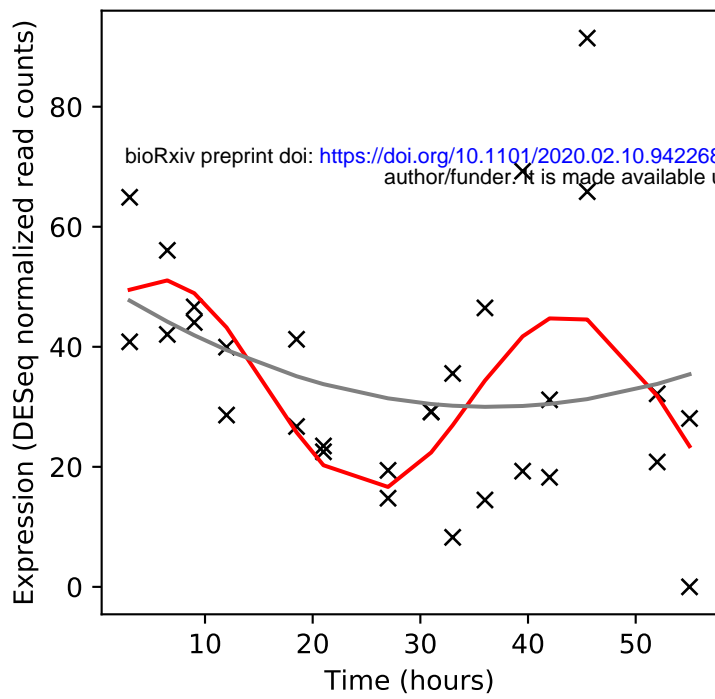
Rv1721c/vapB12



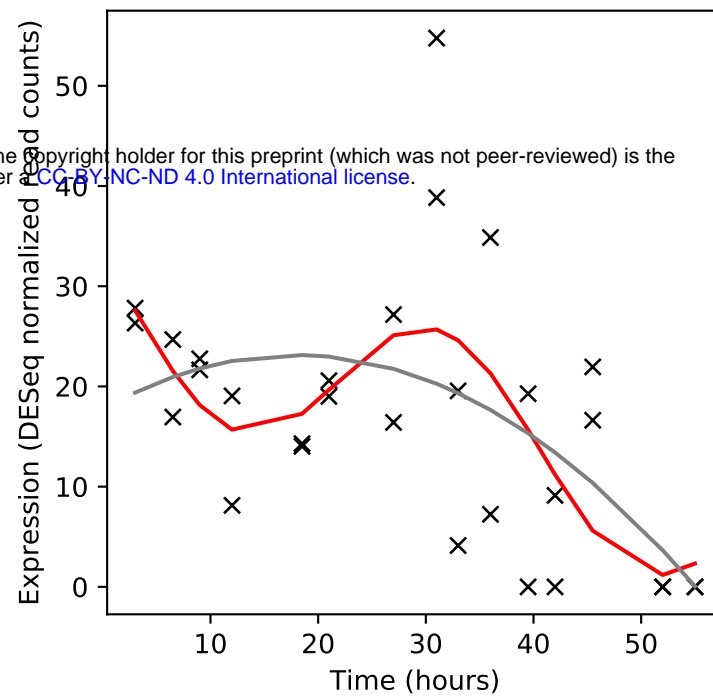
Rv1722/-



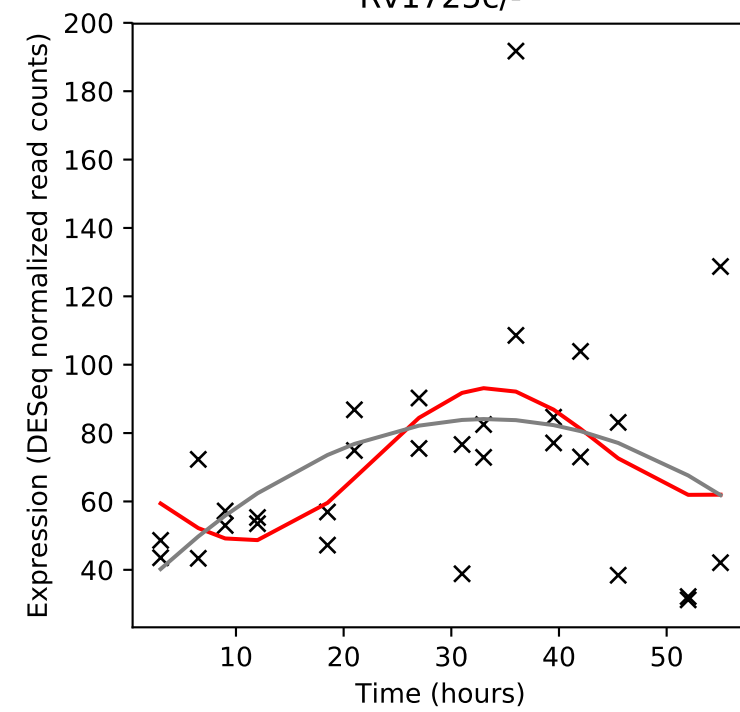
Rv1723/-



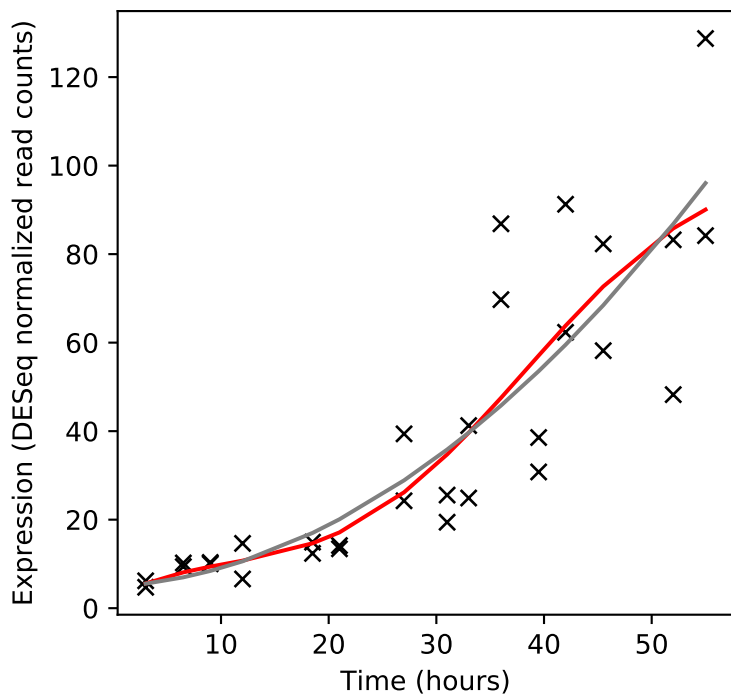
Rv1724c/-



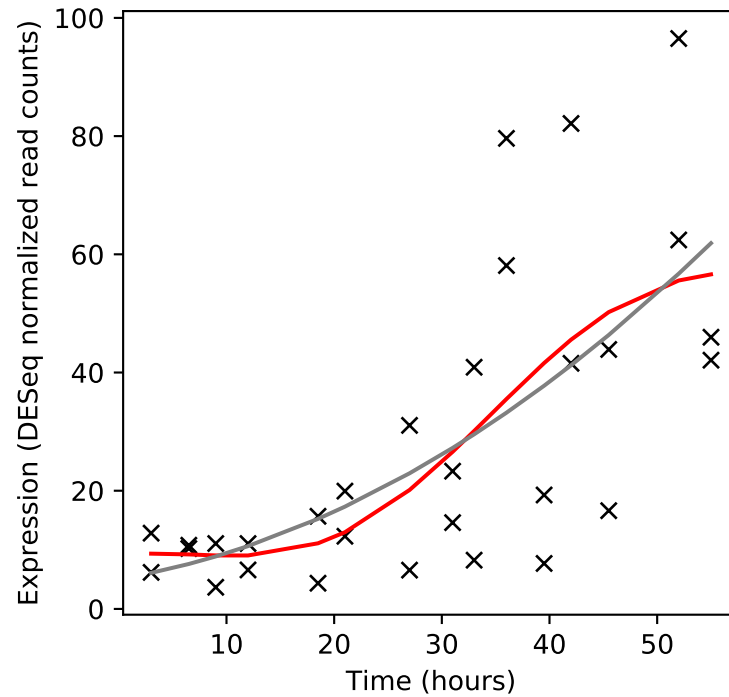
Rv1725c/-



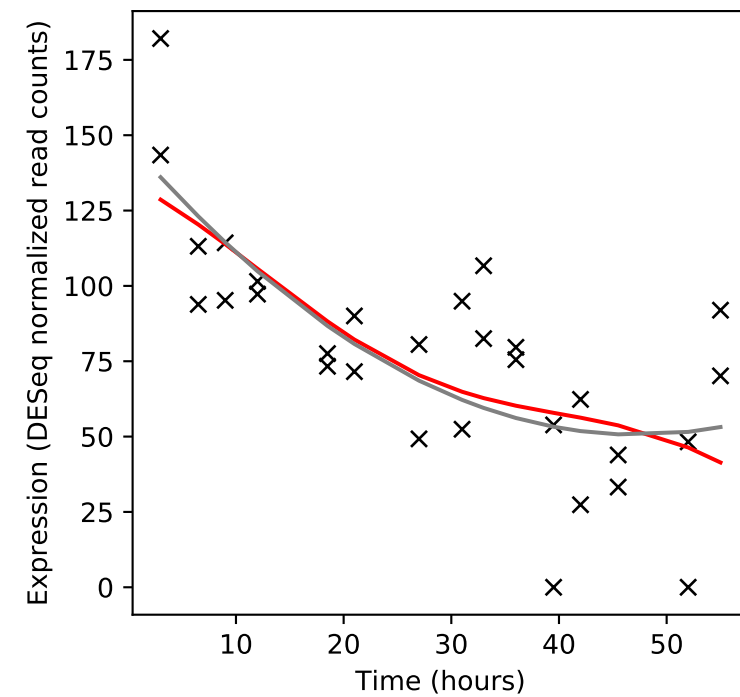
Rv1726/-



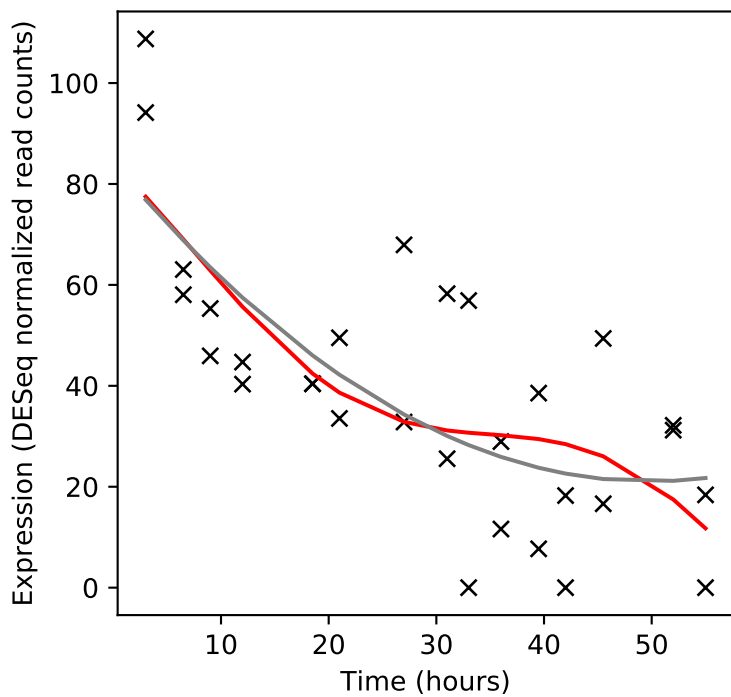
Rv1727/-



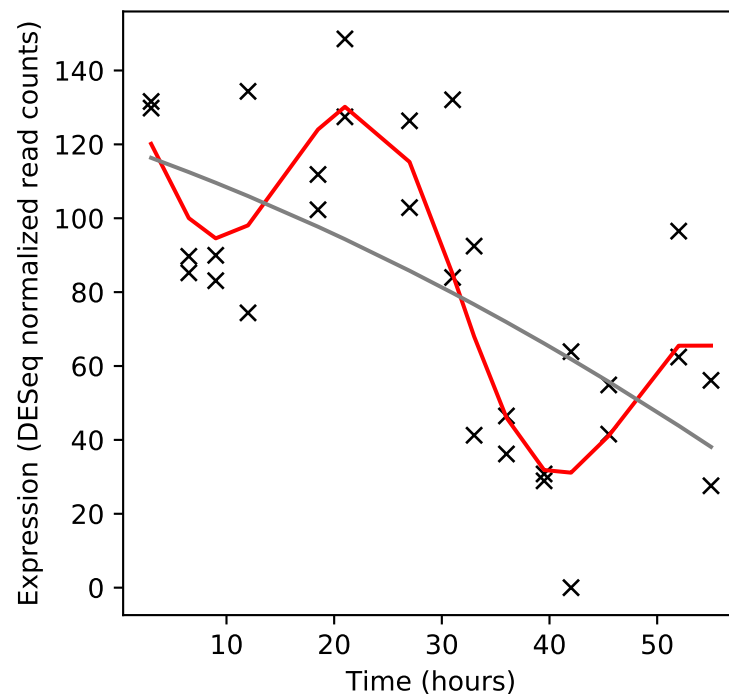
Rv1728c/-



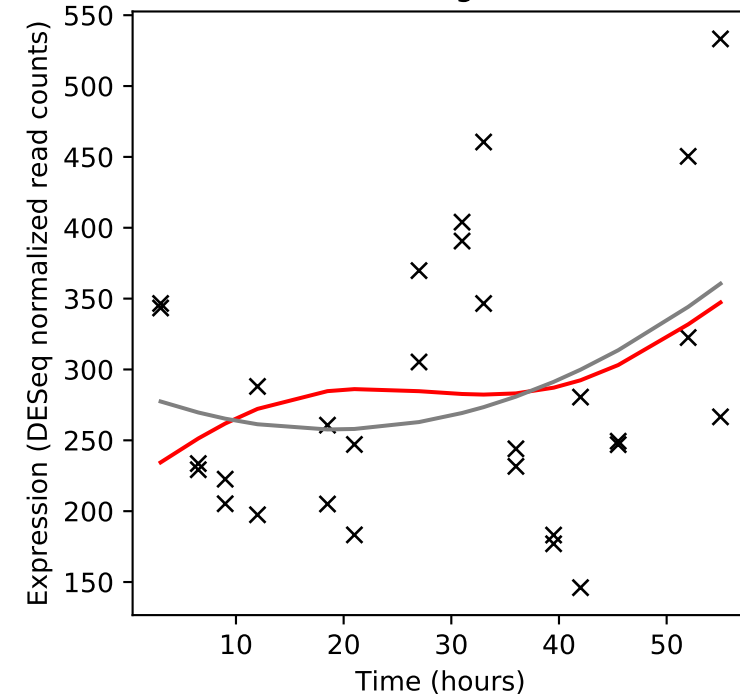
Rv1729c/-



Rv1730c/-

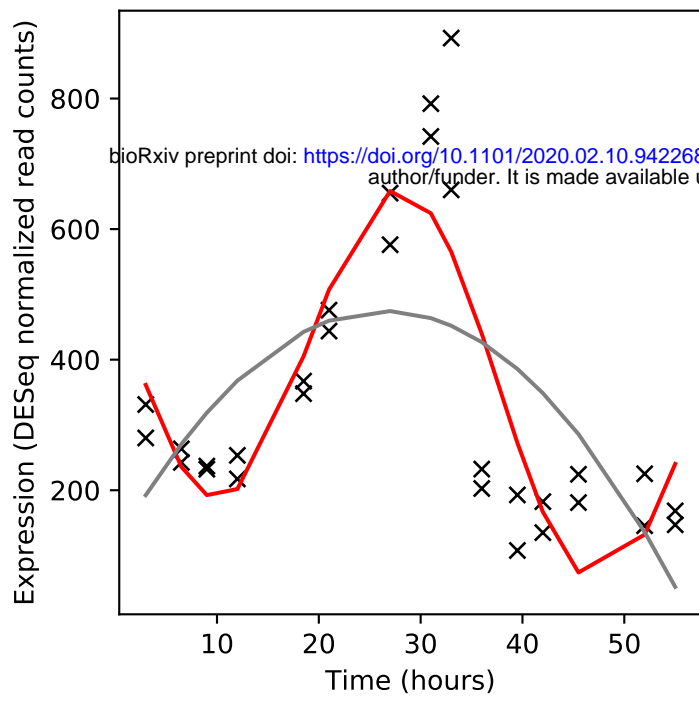


Rv1731/gabD2

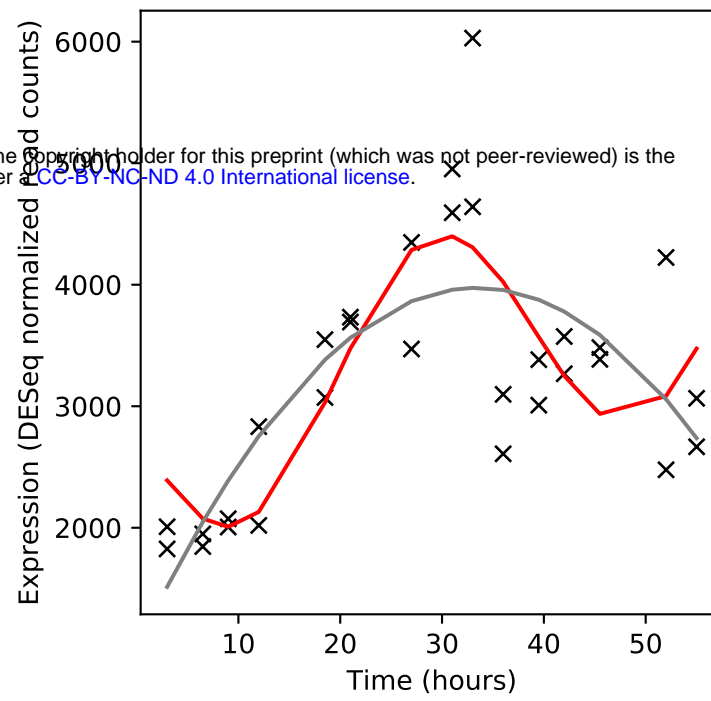


bioRxiv preprint doi: <https://doi.org/10.1101/2020.02.10.942268>; this version posted February 11, 2020. The copyright holder for this preprint (which was not certified by peer review) is the author/funder. It is made available under aCC-BY-NC-ND 4.0 International license.

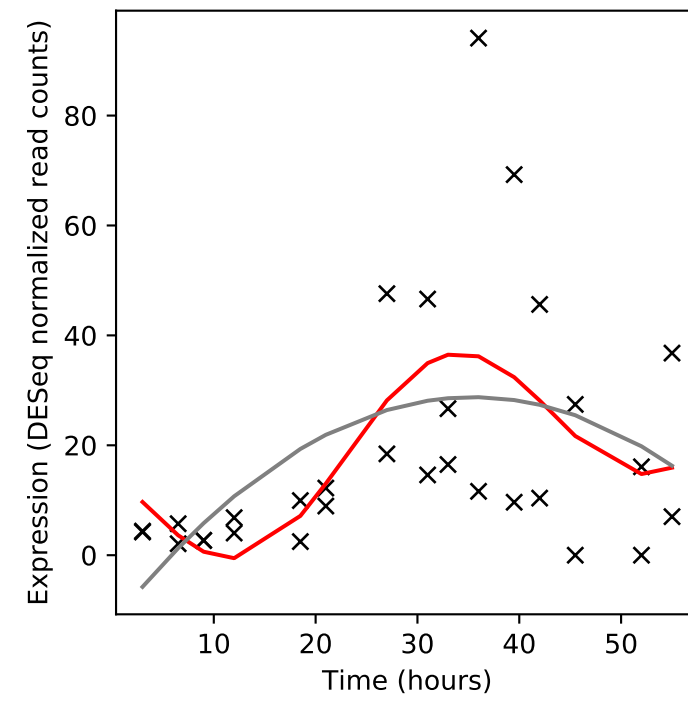
Rv1732c/-



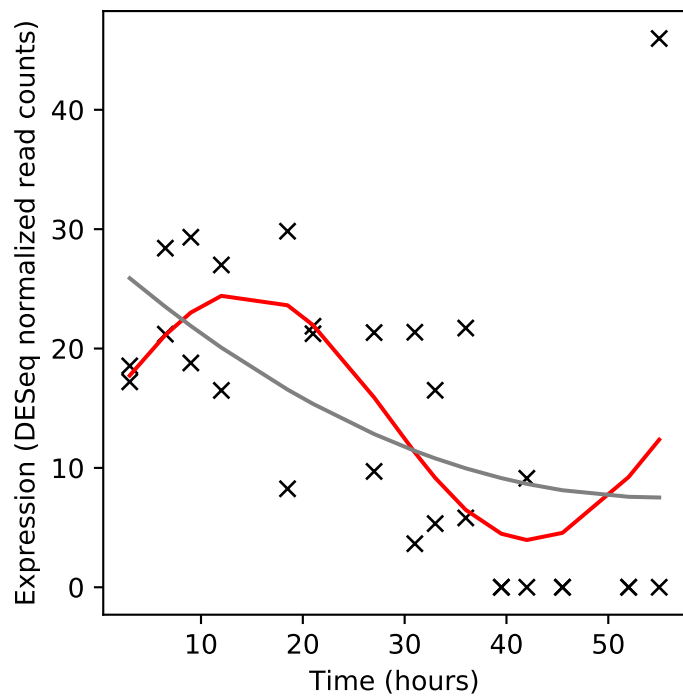
Rv1733c/-



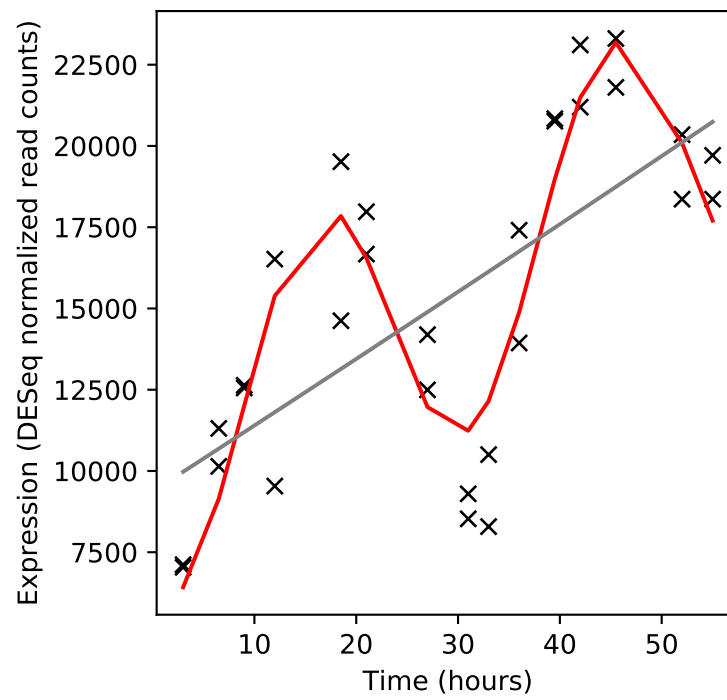
Rv1734c/-



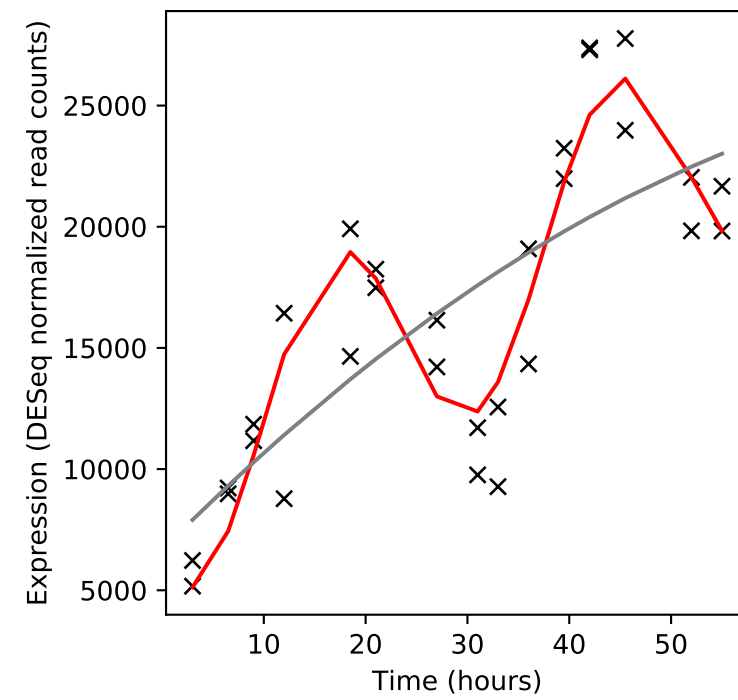
Rv1735c/-



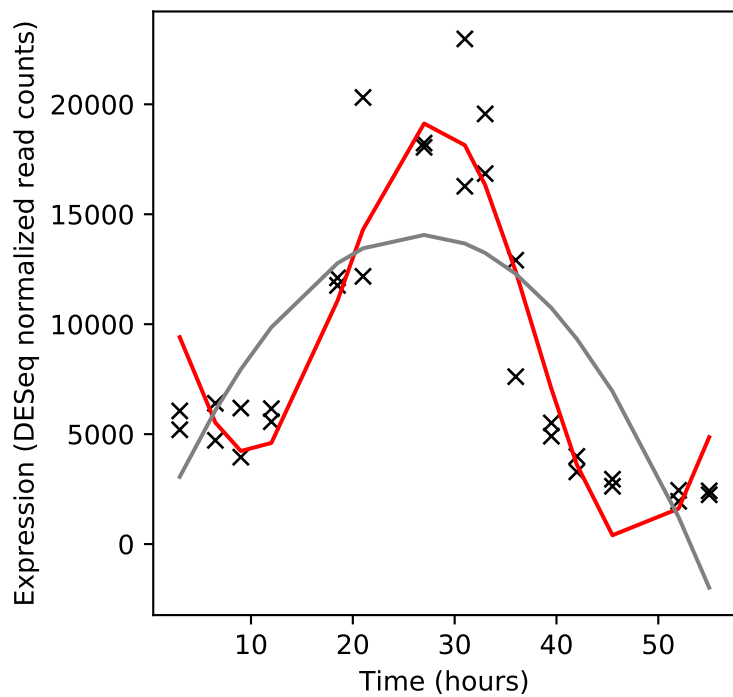
Rv1736c/narX



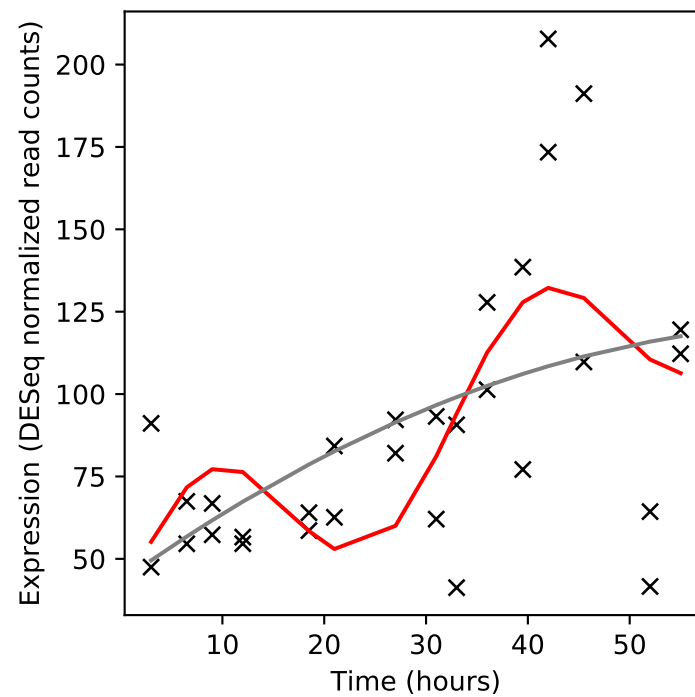
Rv1737c/narK2



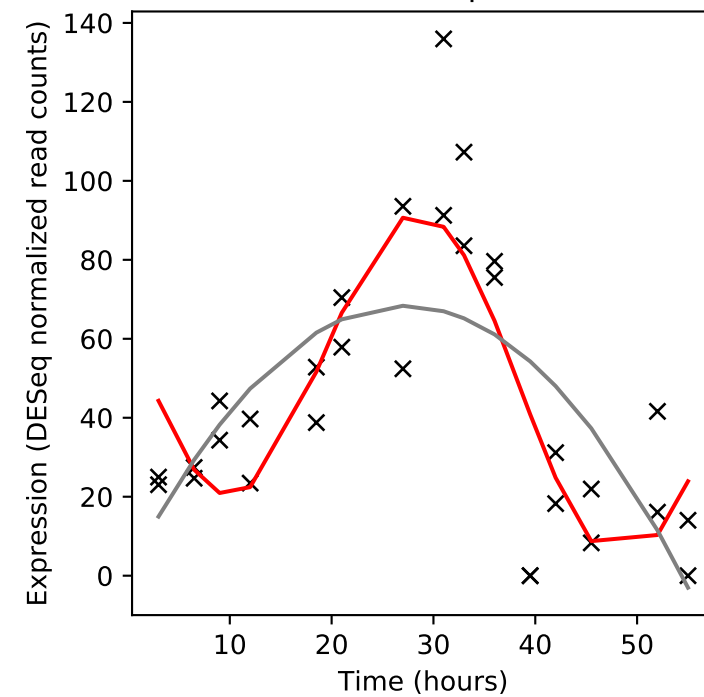
Rv1738/-



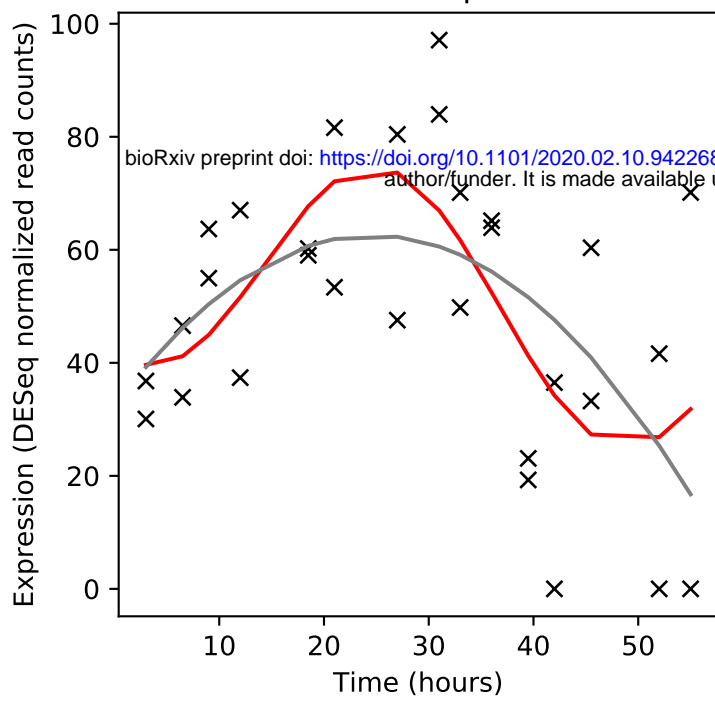
Rv1739c/-



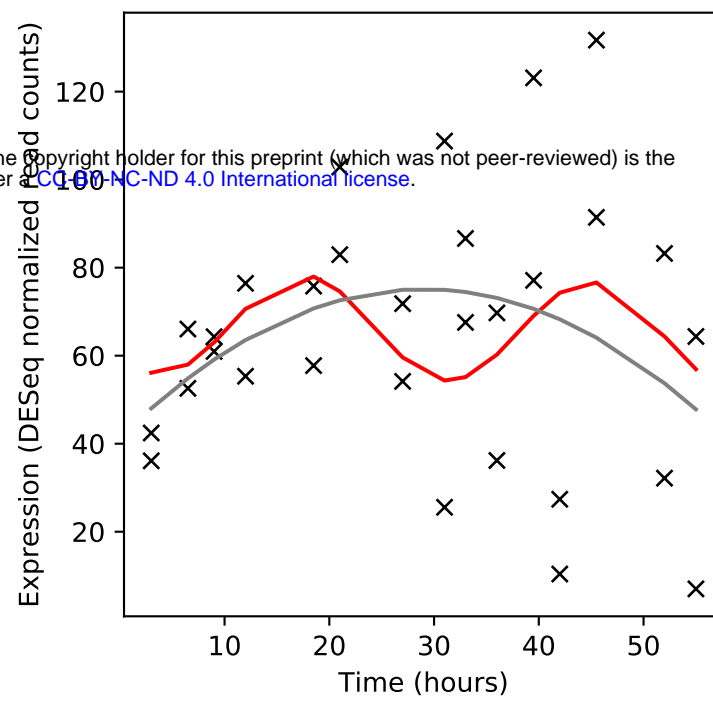
Rv1740/vapB34



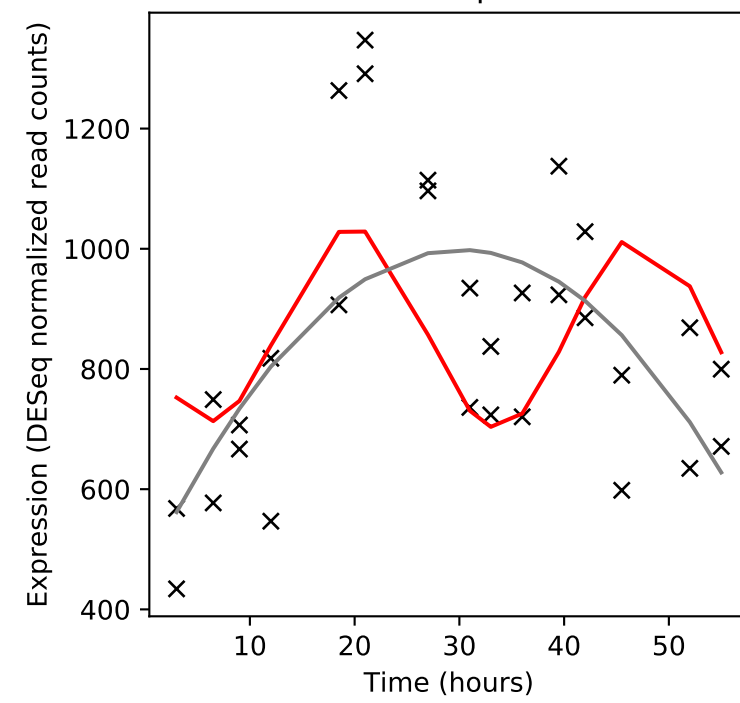
Rv1741/vapC34



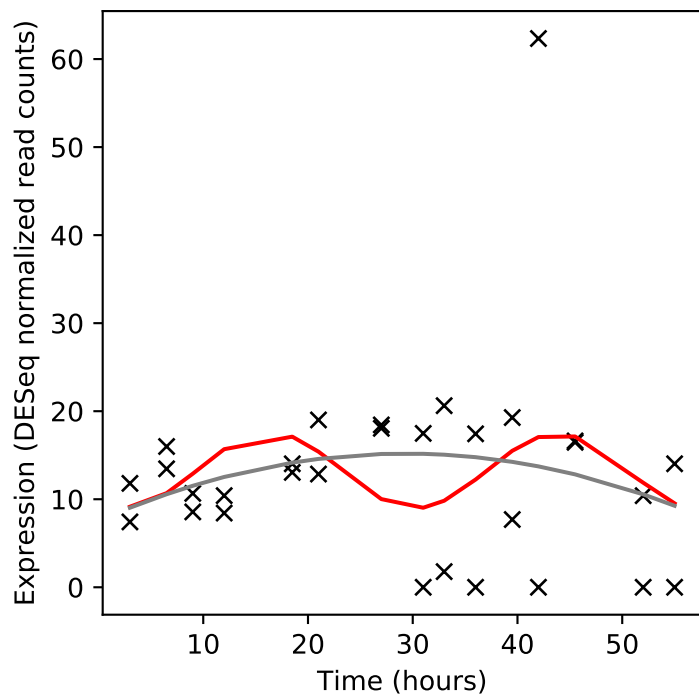
Rv1742/-



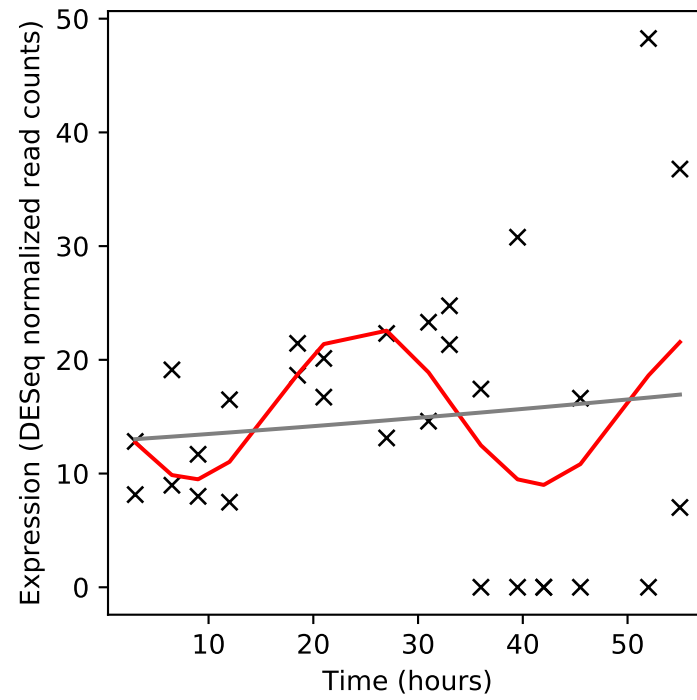
Rv1743/pknE



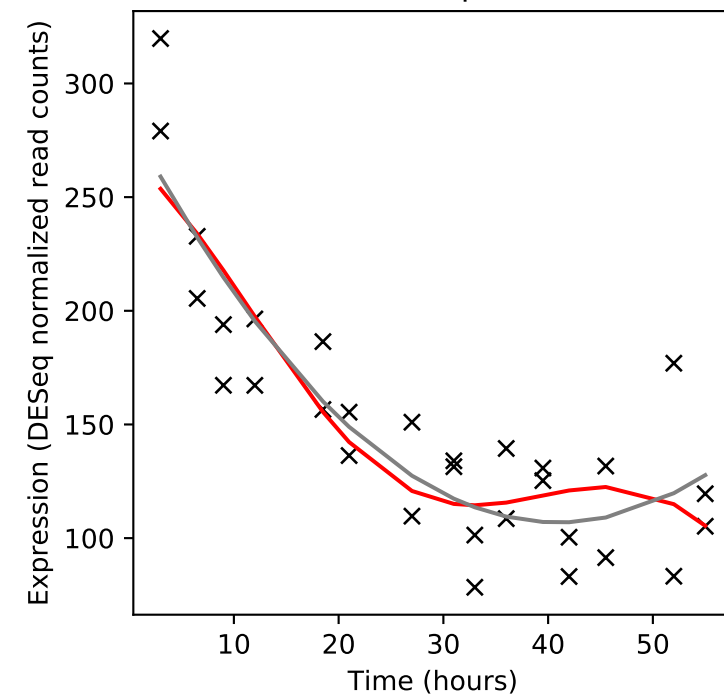
Rv1744c/-



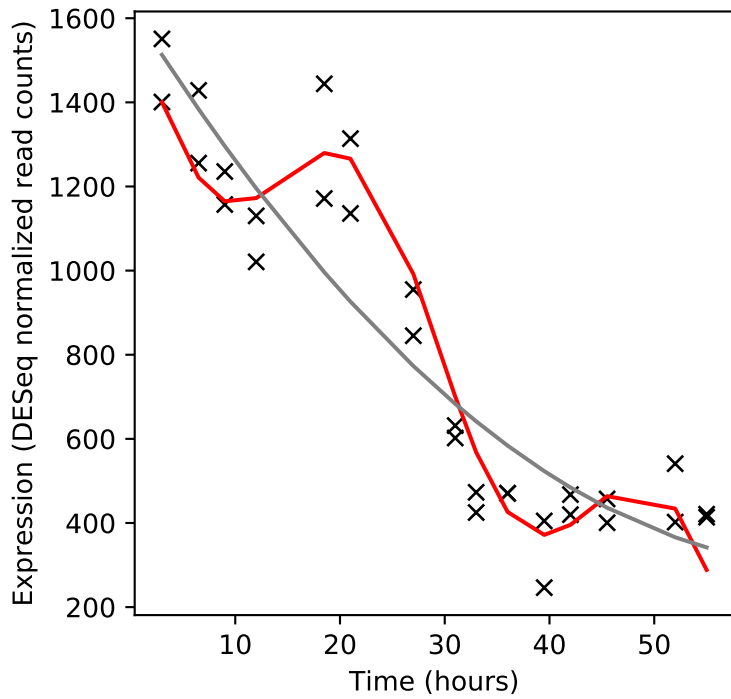
Rv1745c/idi



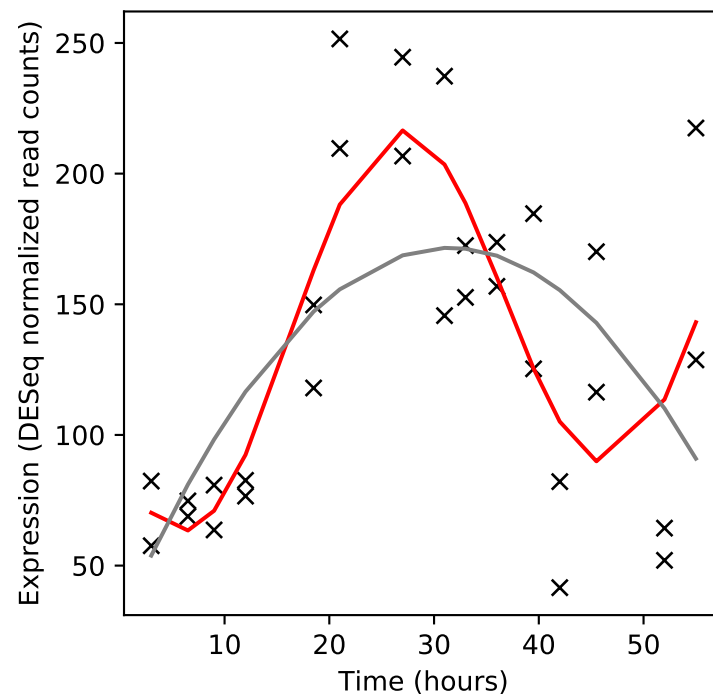
Rv1746/pknF



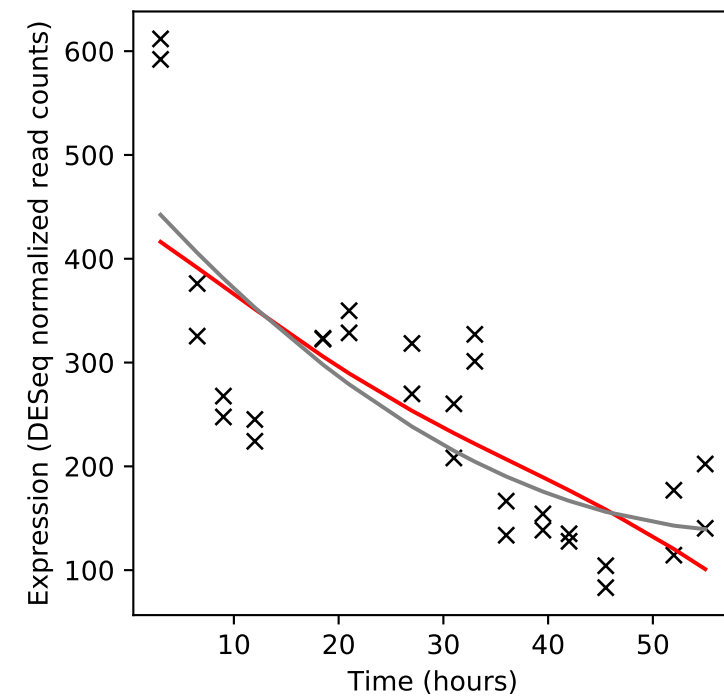
Rv1747/-



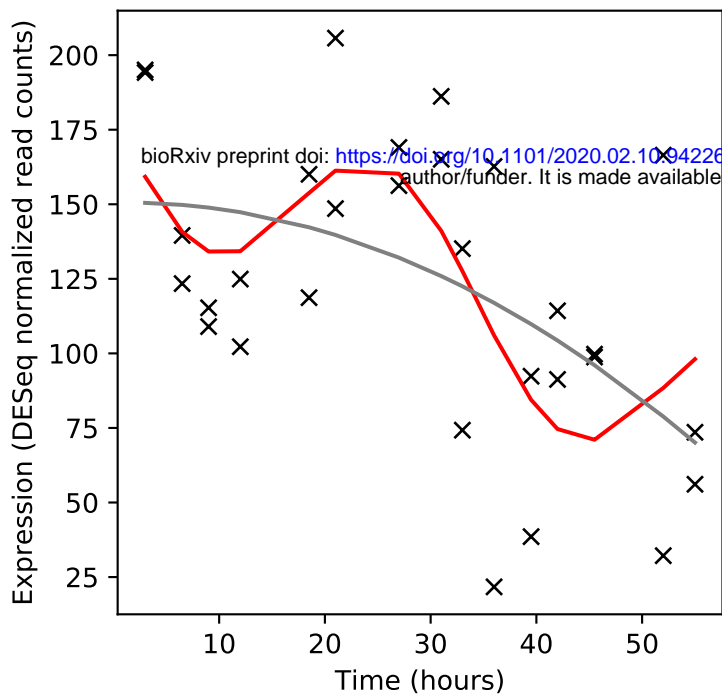
Rv1748/-



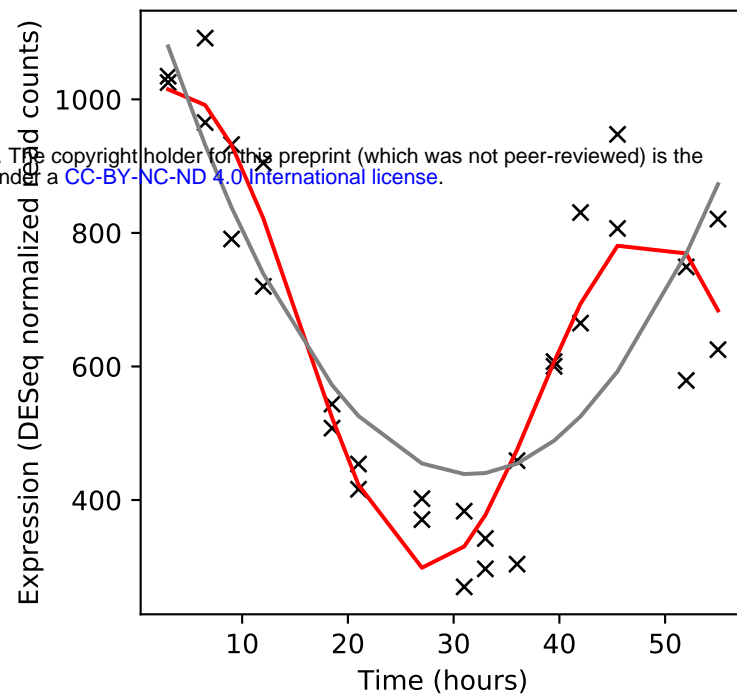
Rv1749c/-



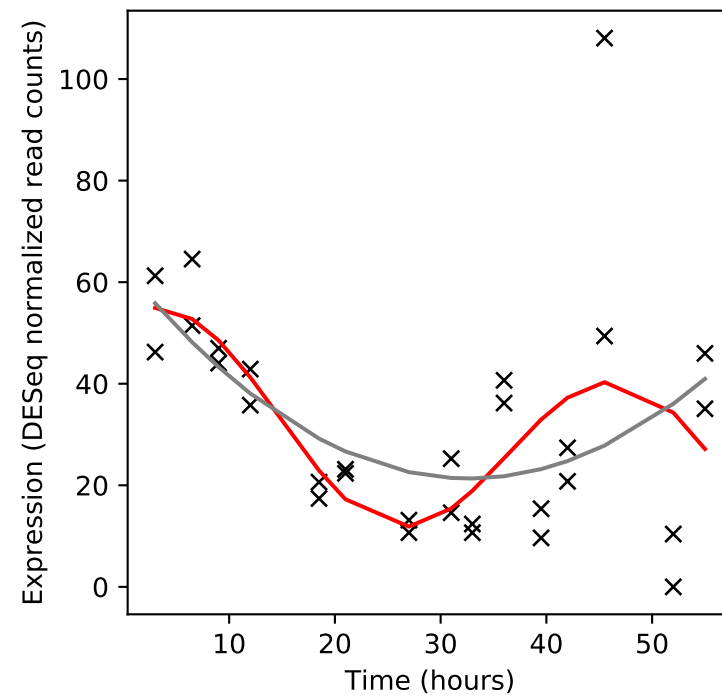
Rv1750c/fadD1



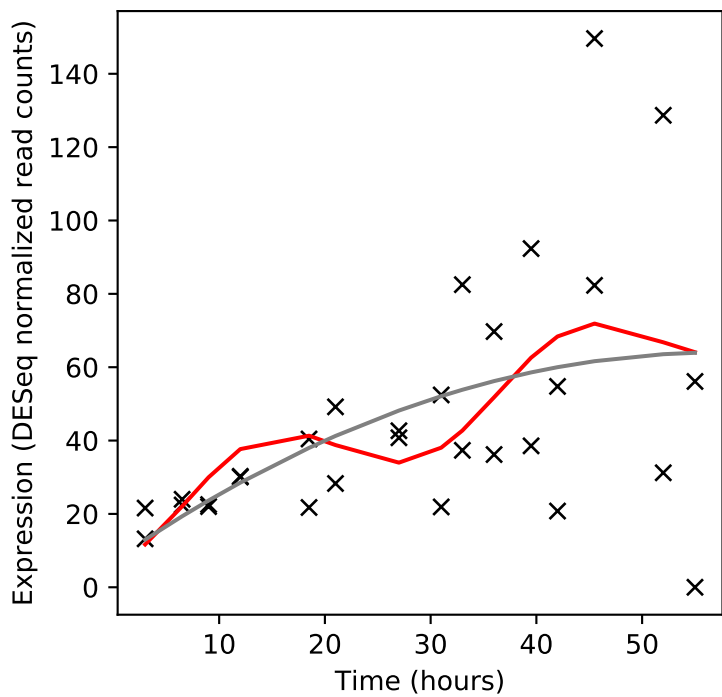
Rv1751/-



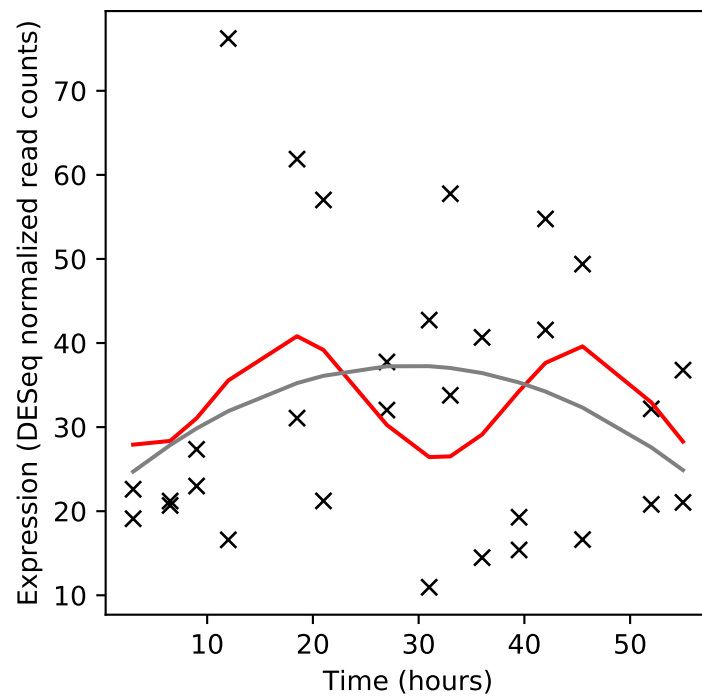
Rv1752/-



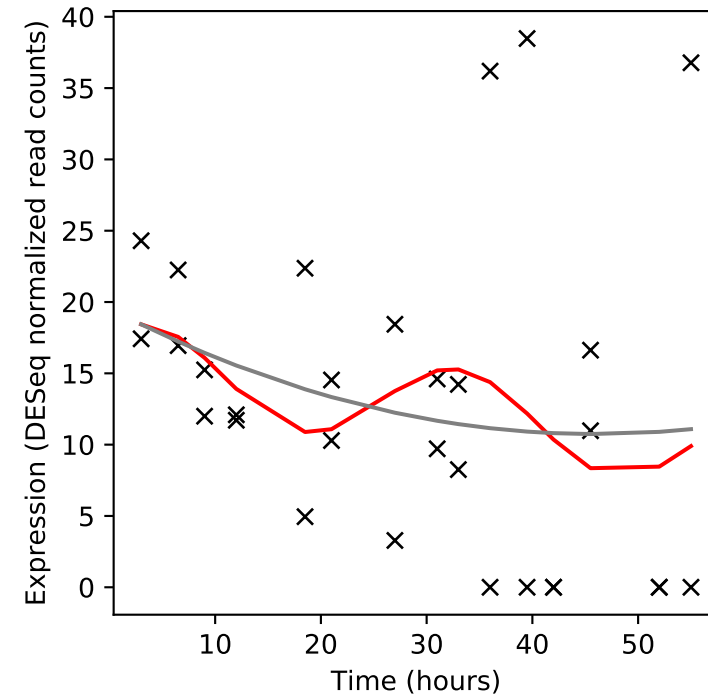
Rv1753c/PPE24



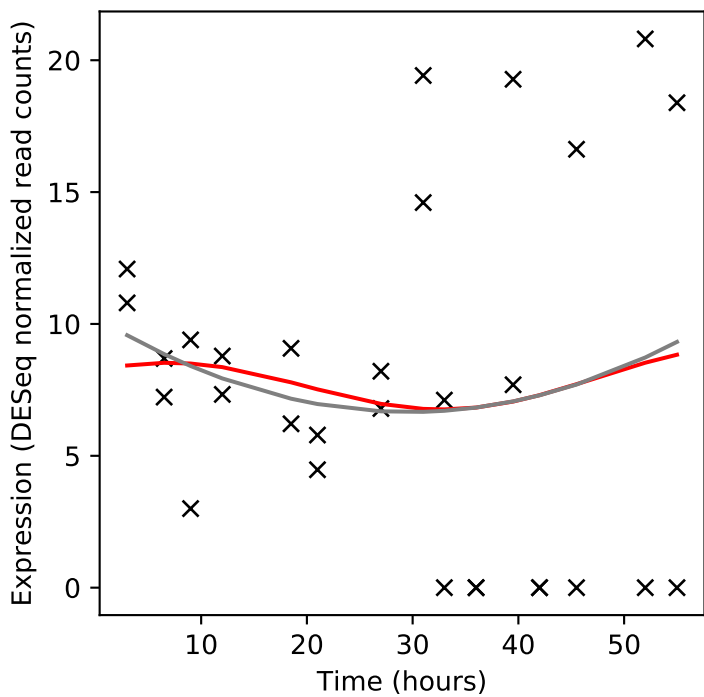
Rv1754c/-



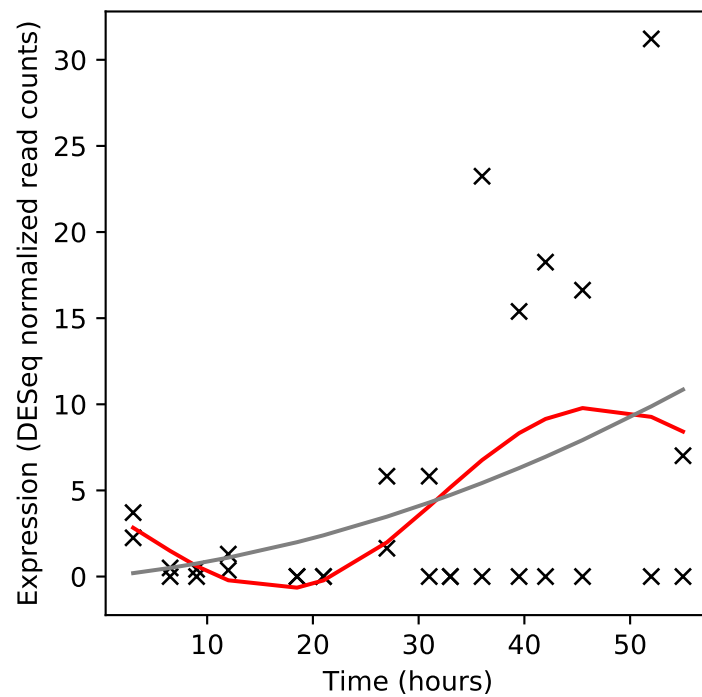
Rv1756c/-



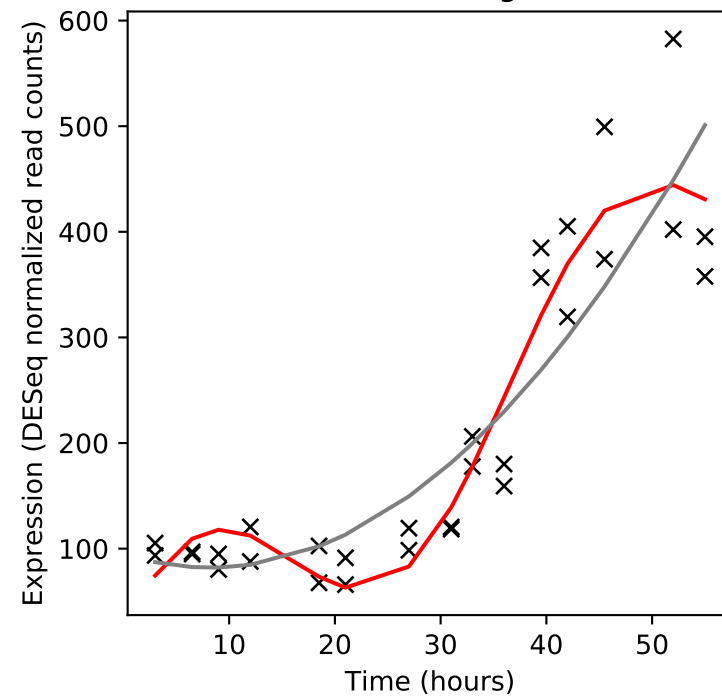
Rv1757c/-



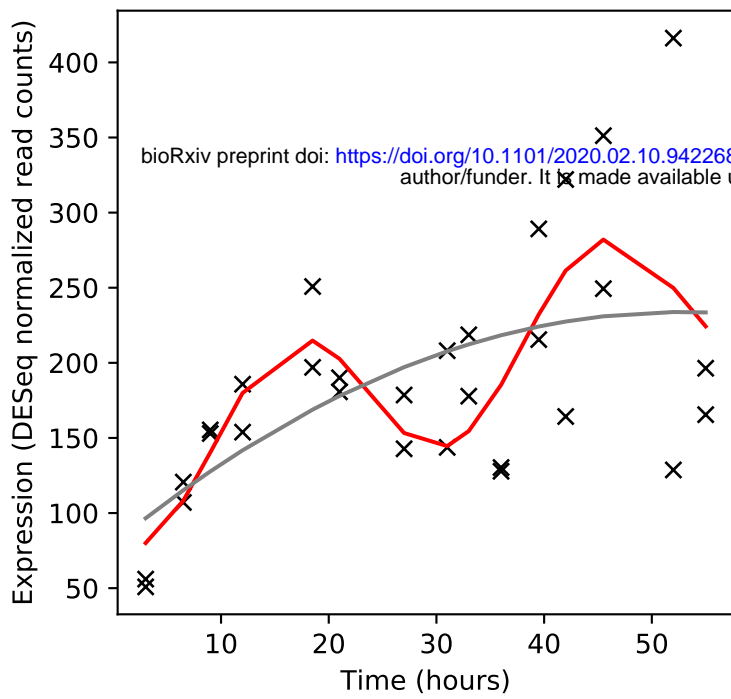
Rv1758/cut1



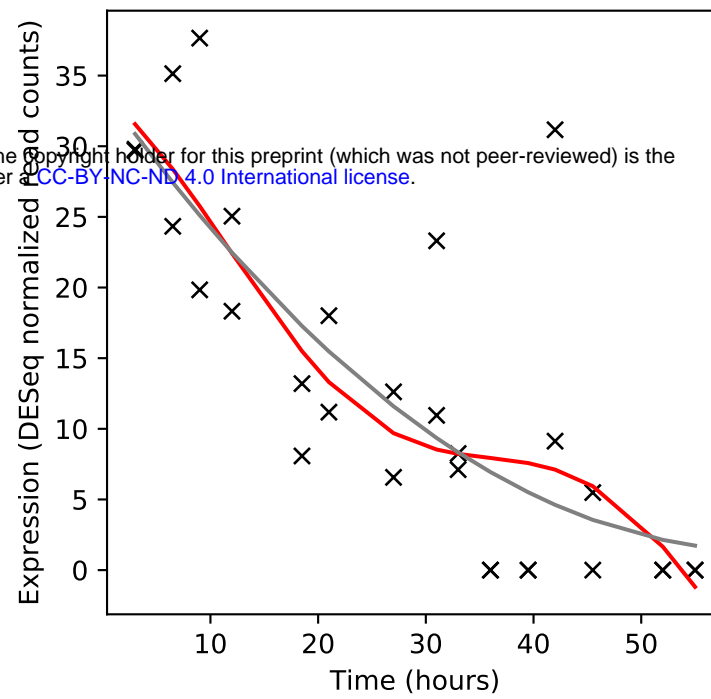
Rv1759c/wag22



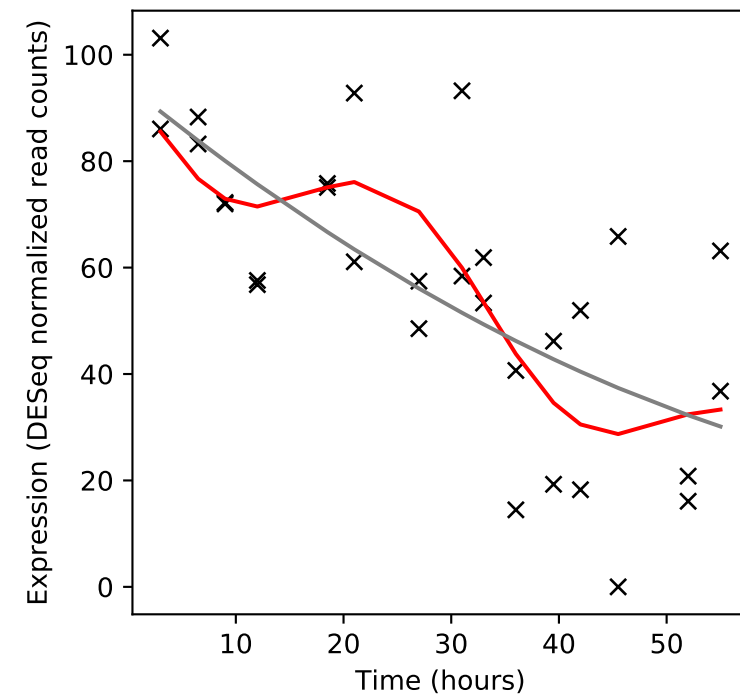
Rv1760/-



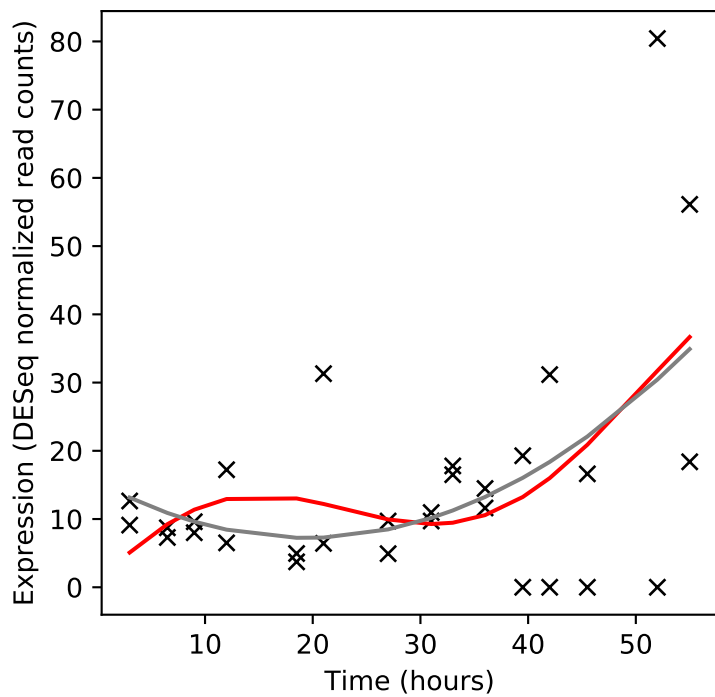
Rv1761c/-



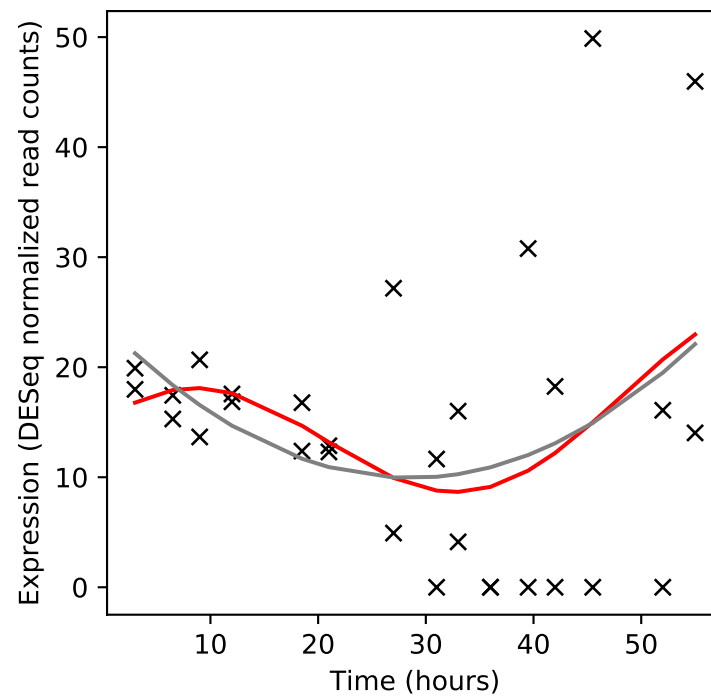
Rv1762c/-



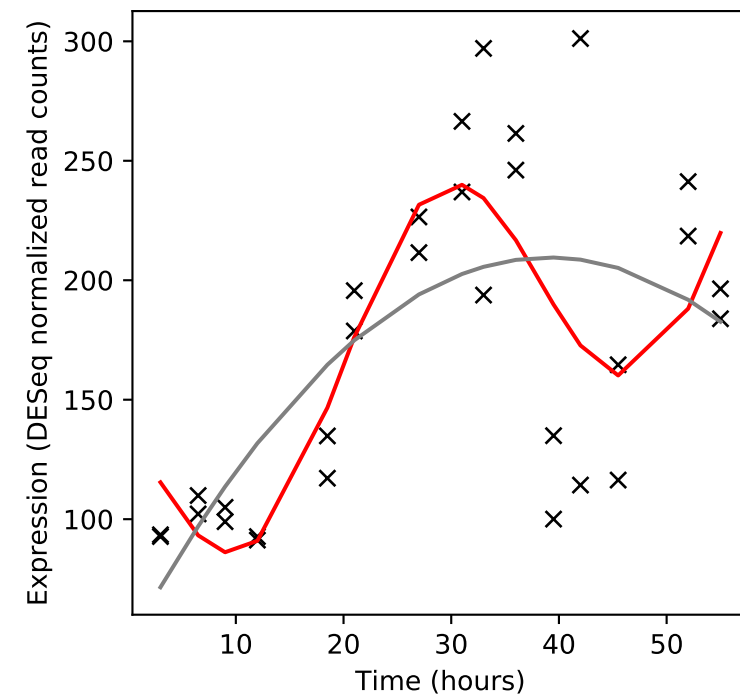
Rv1763/-



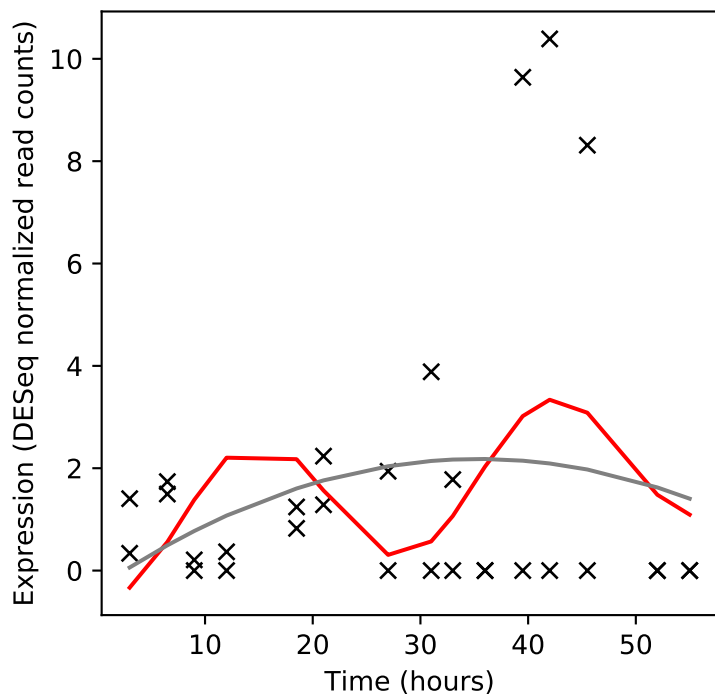
Rv1764/-



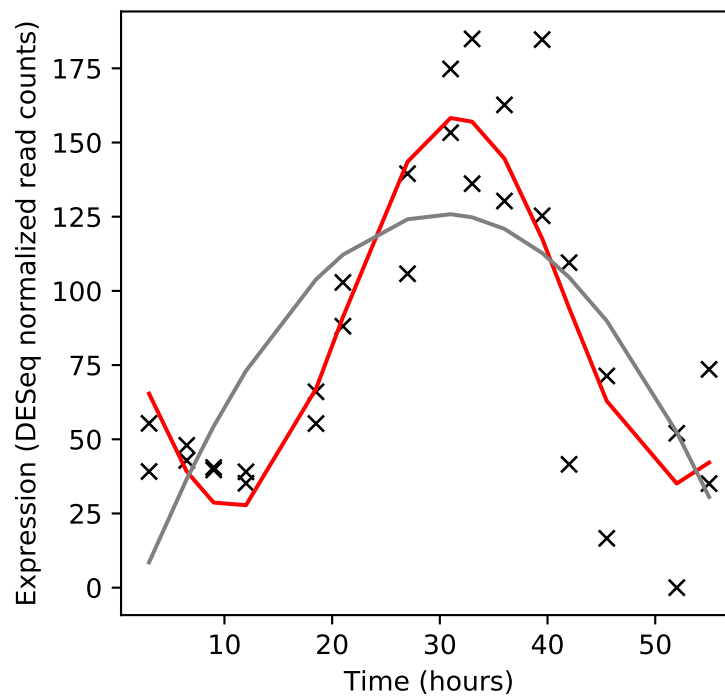
Rv1765c/-



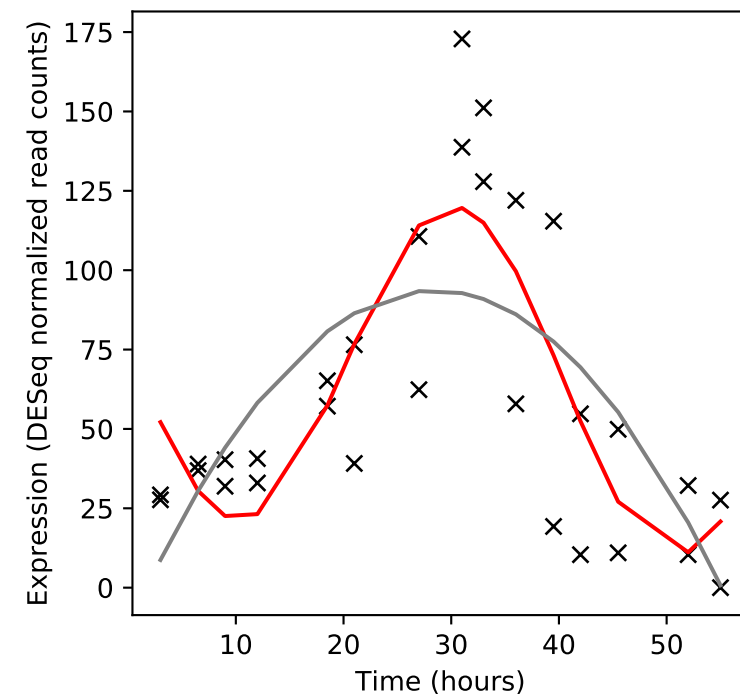
Rv1765A/-



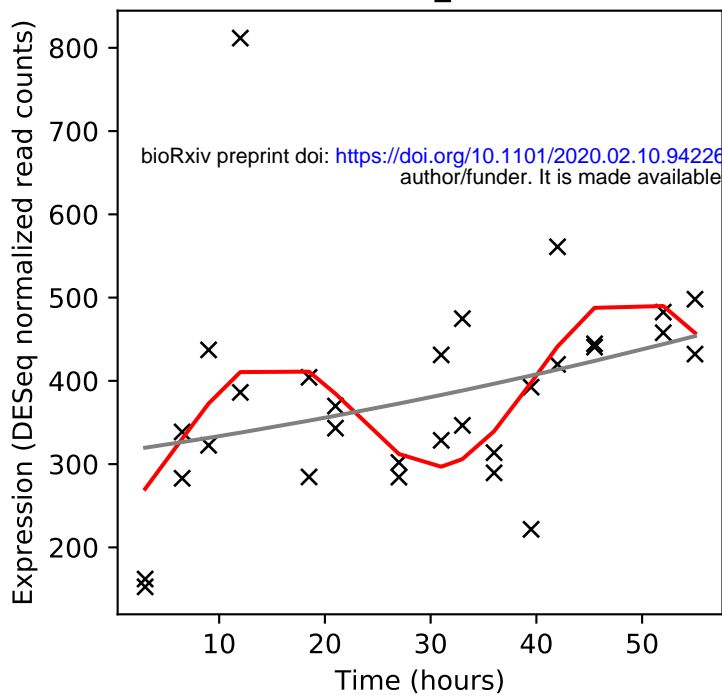
Rv1766/-



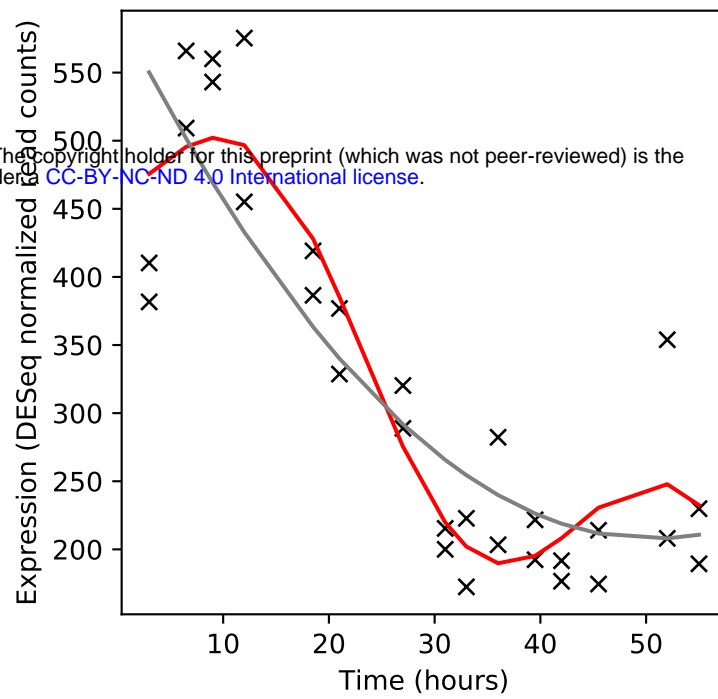
Rv1767/-



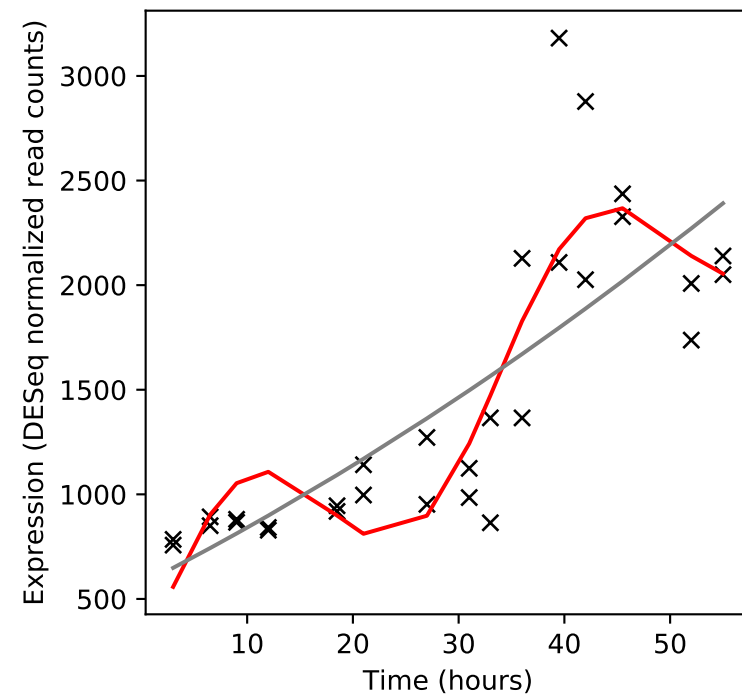
Rv1768/PE_PGRS31



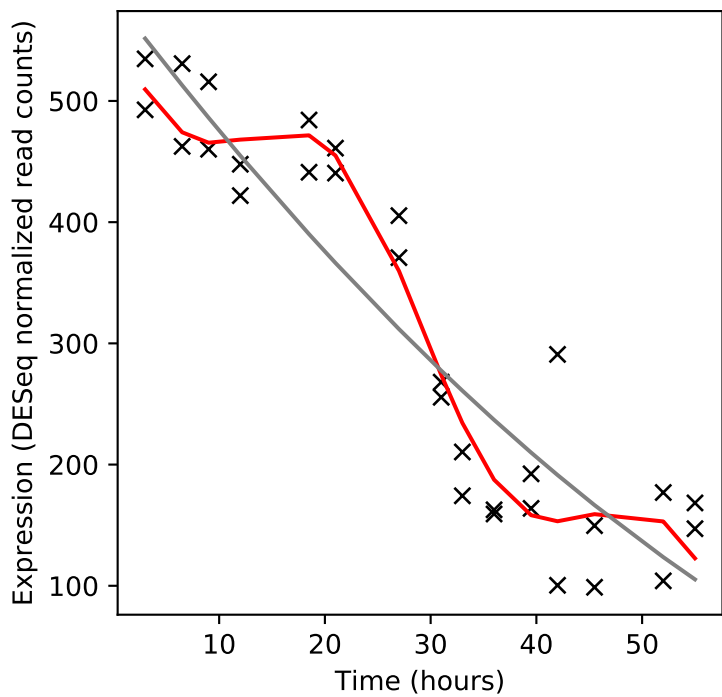
Rv1769/-



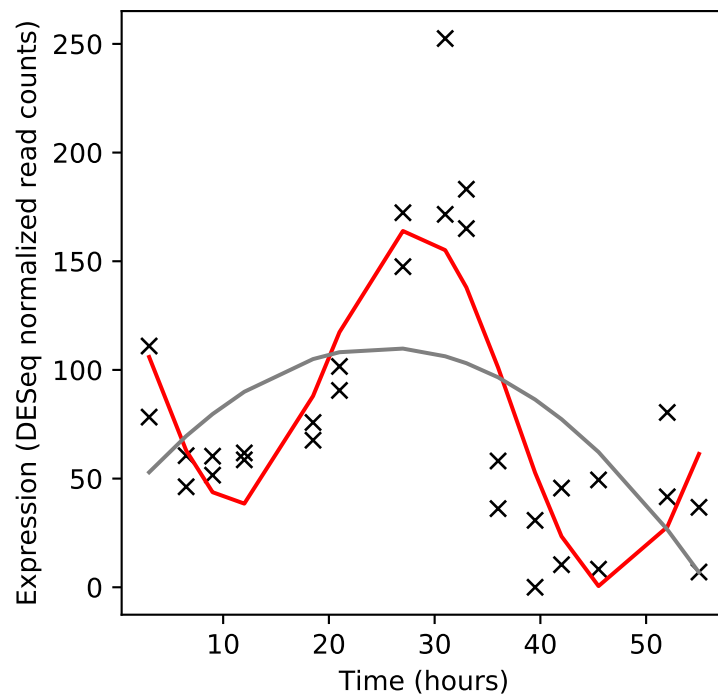
Rv1770/-



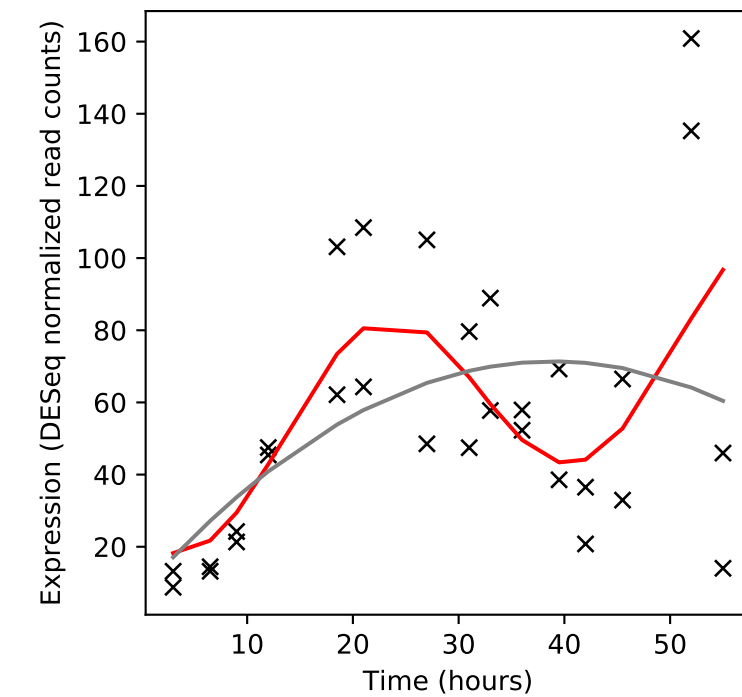
Rv1771/-



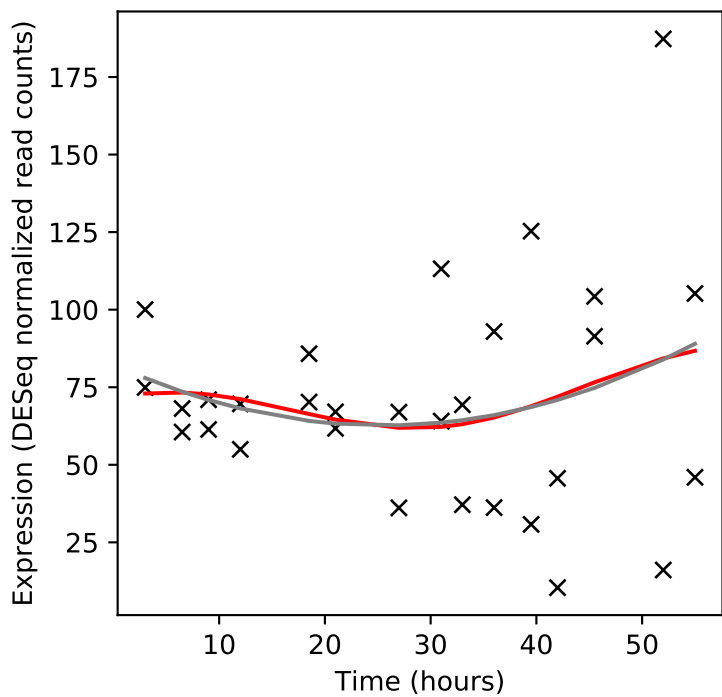
Rv1772/-



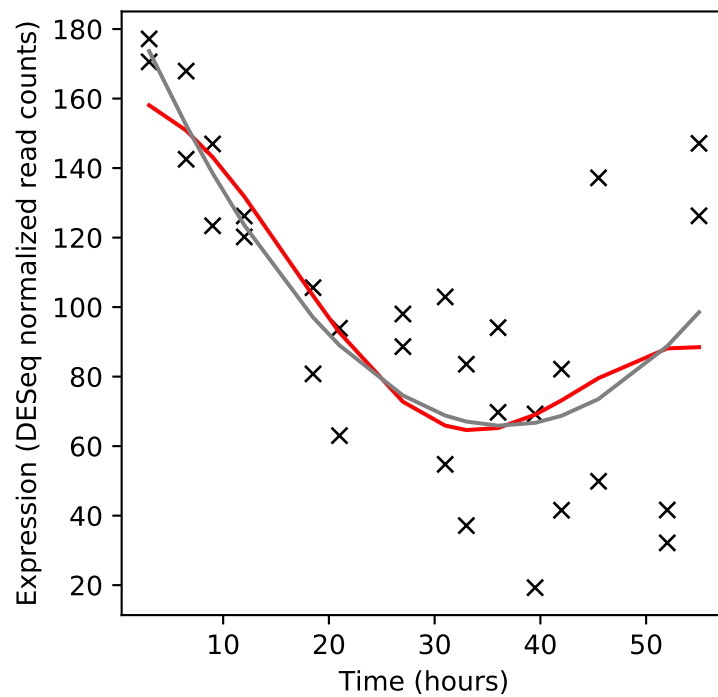
Rv1773c/-



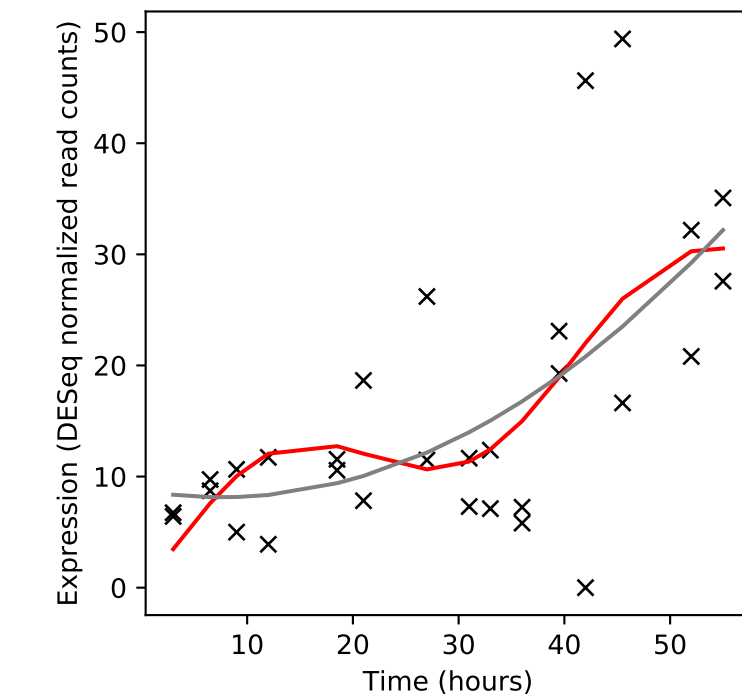
Rv1774/-



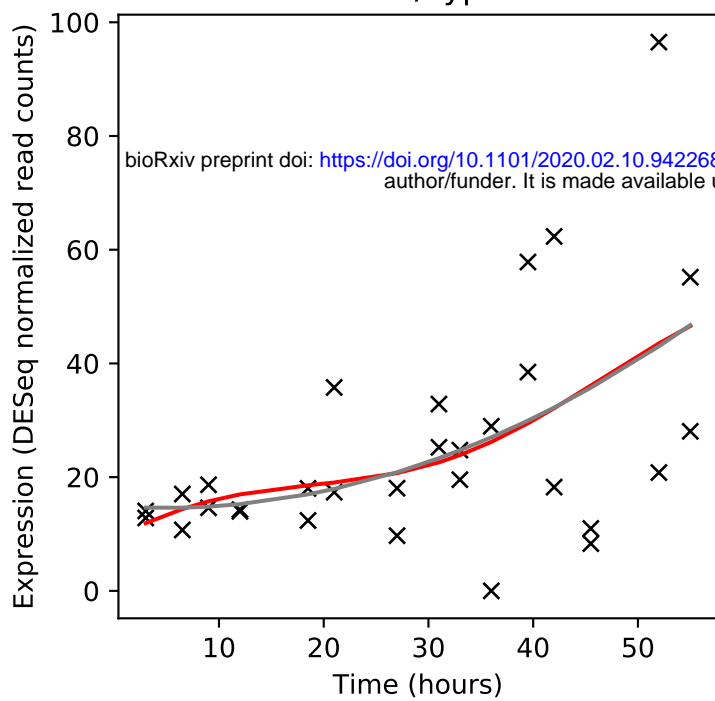
Rv1775/-



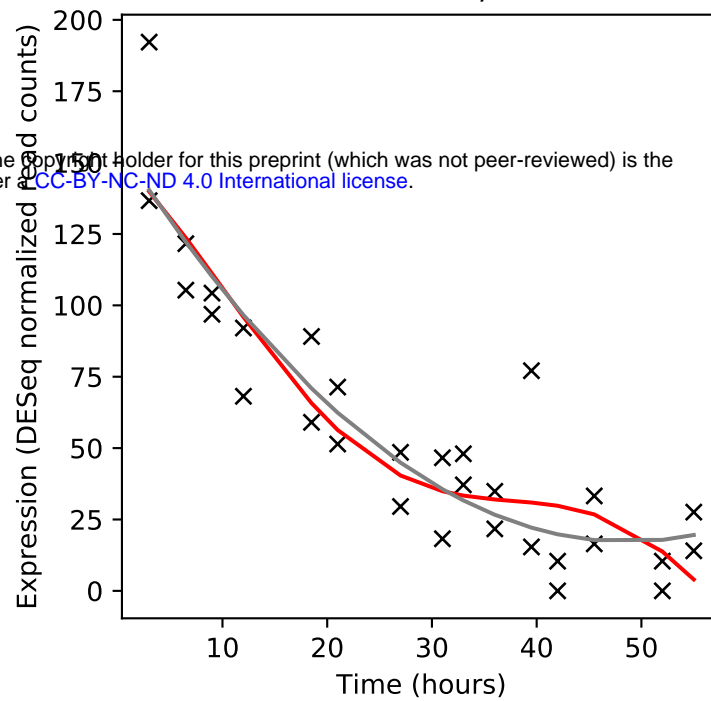
Rv1776c/-



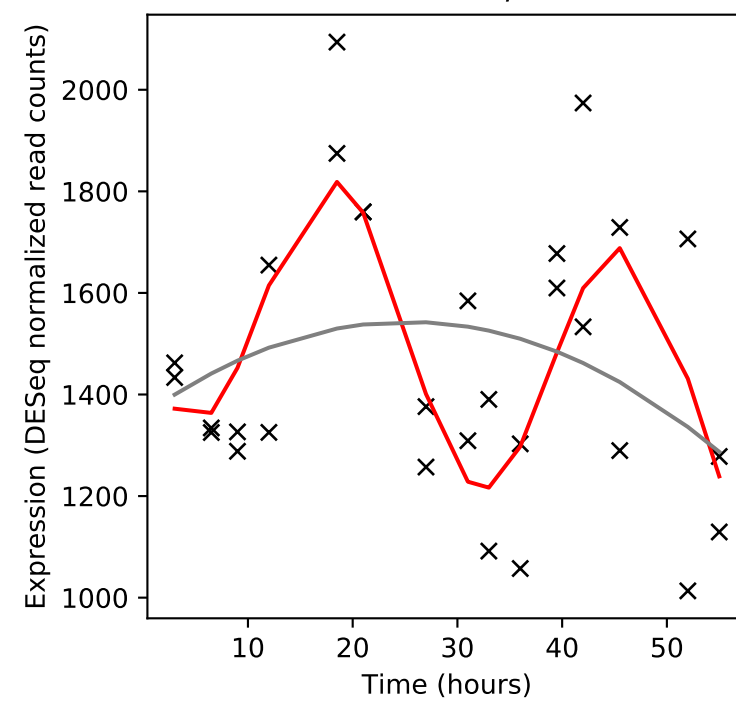
Rv1777/cyp144



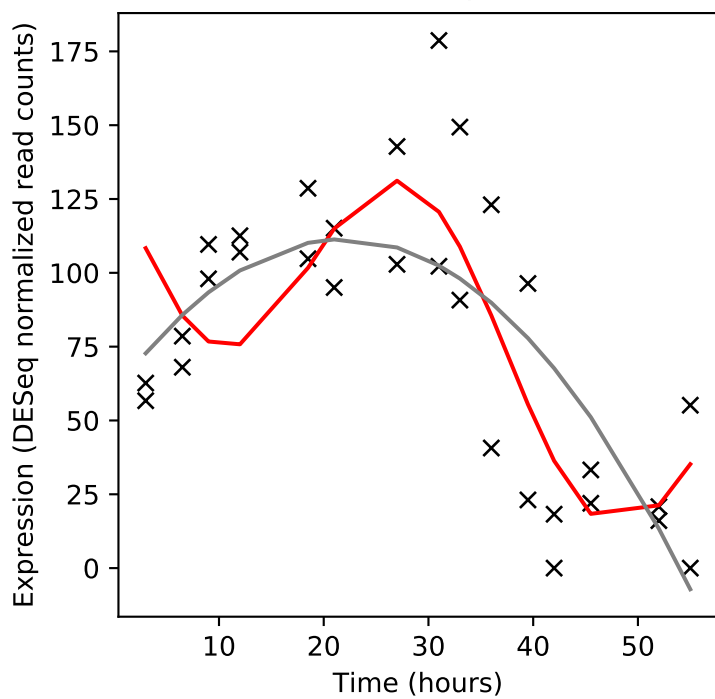
Rv1778c/-



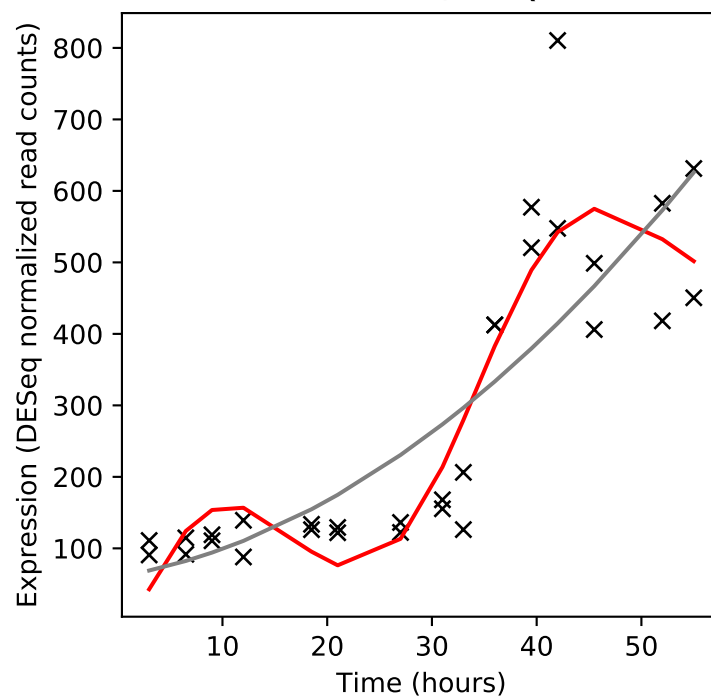
Rv1779c/-



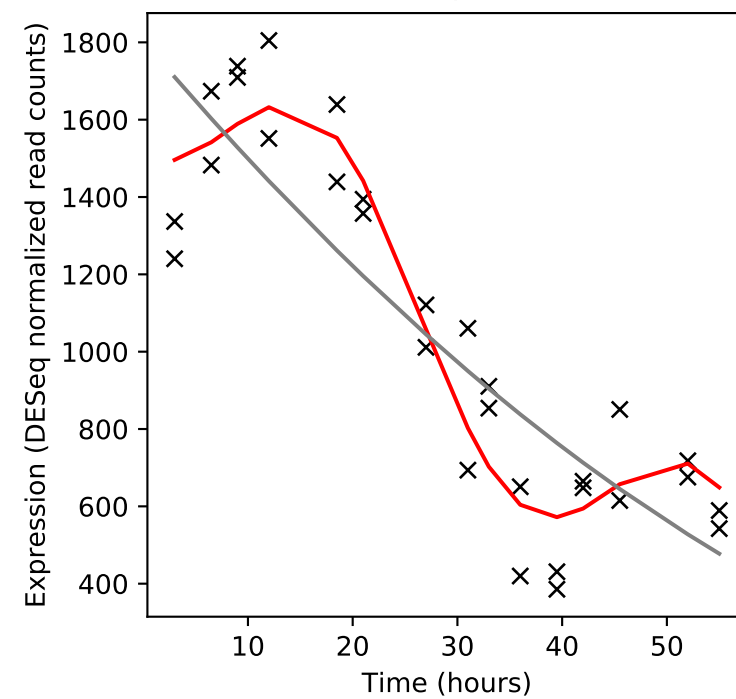
Rv1780/-



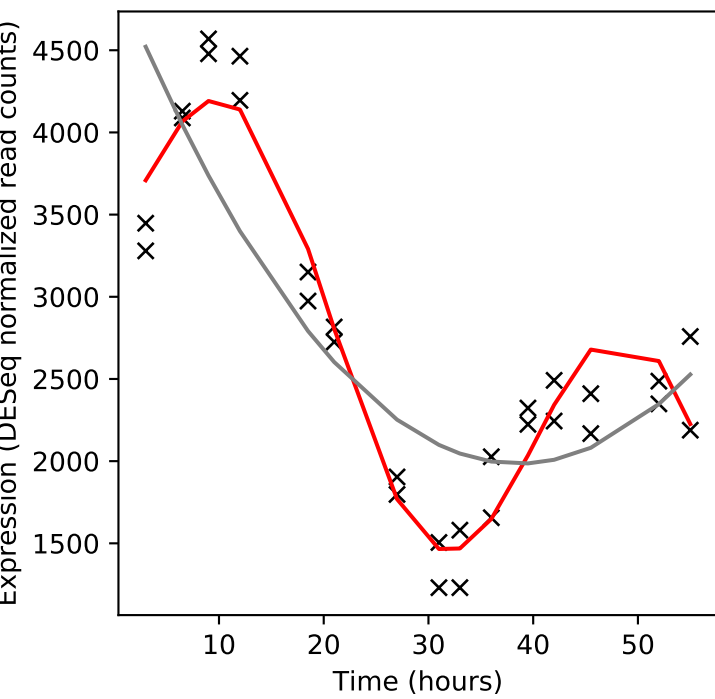
Rv1781c/malQ



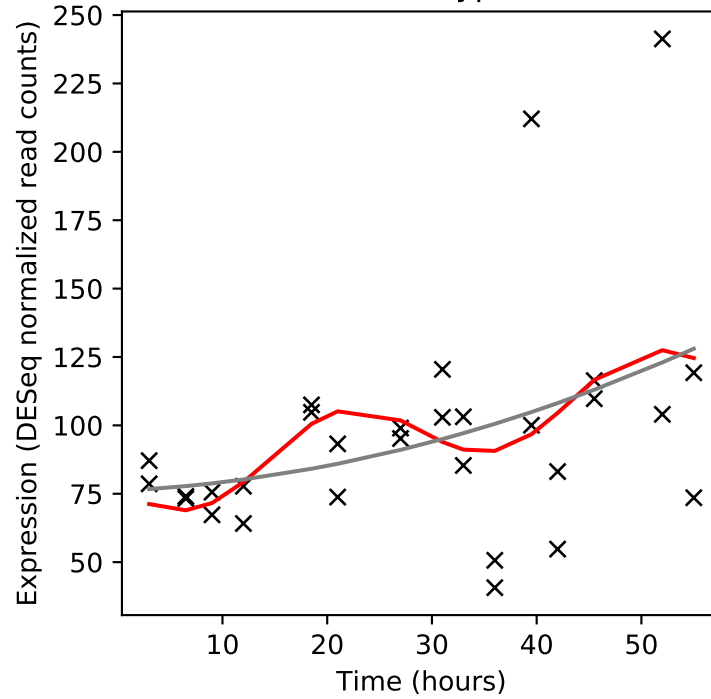
Rv1782/eccB5



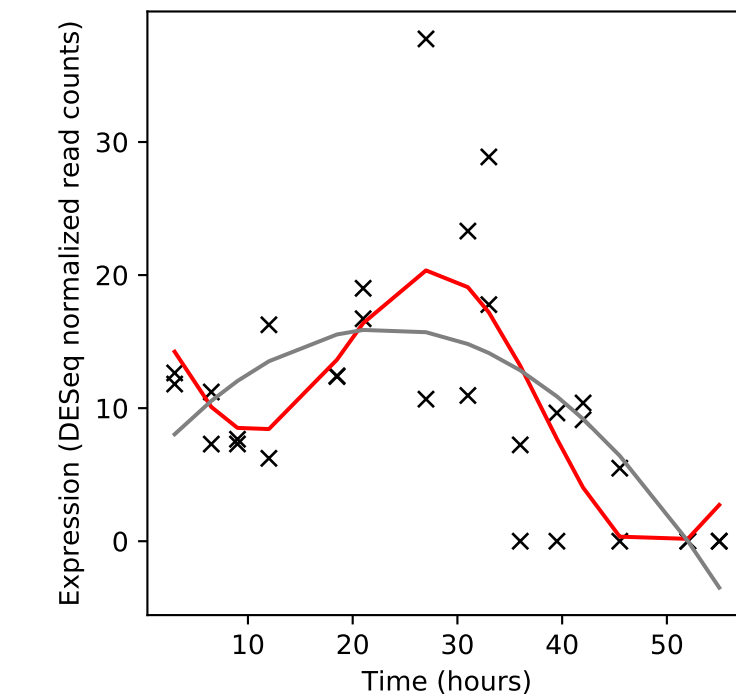
Rv1783/eccC5



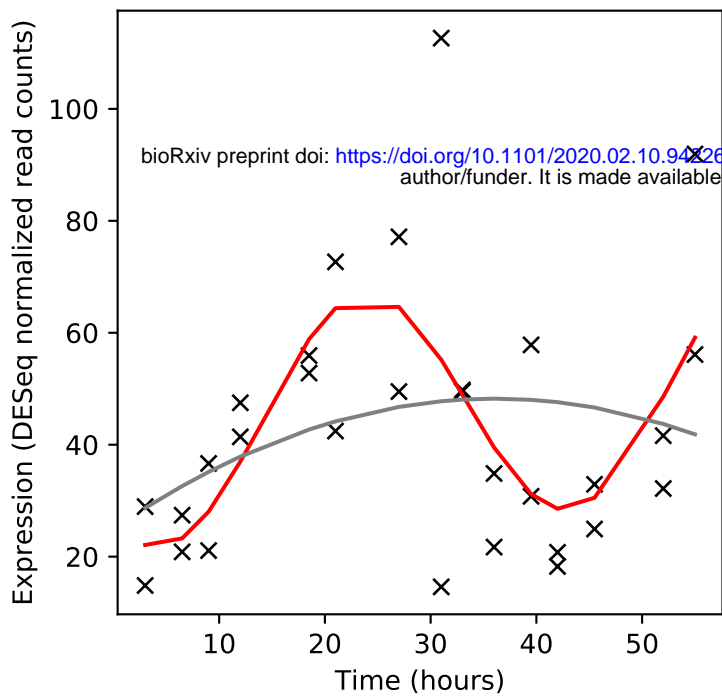
Rv1785c/cyp143



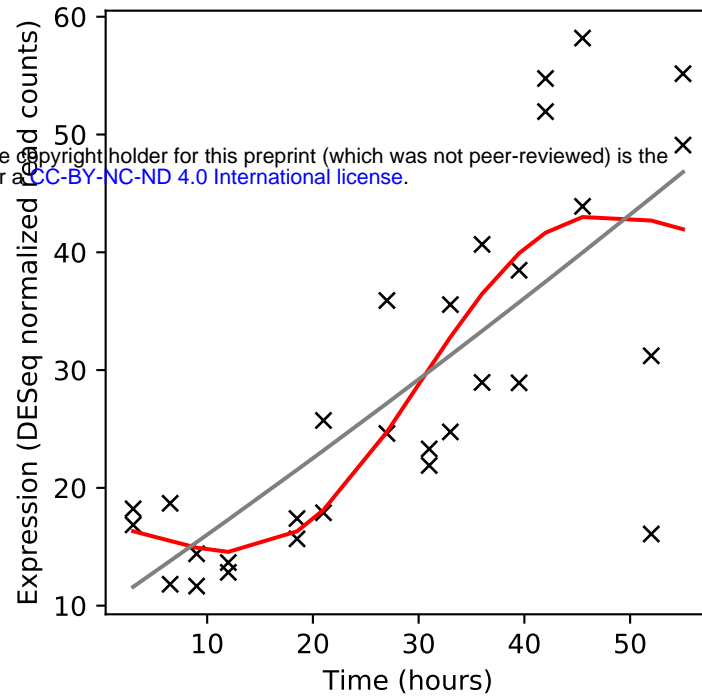
Rv1786/-



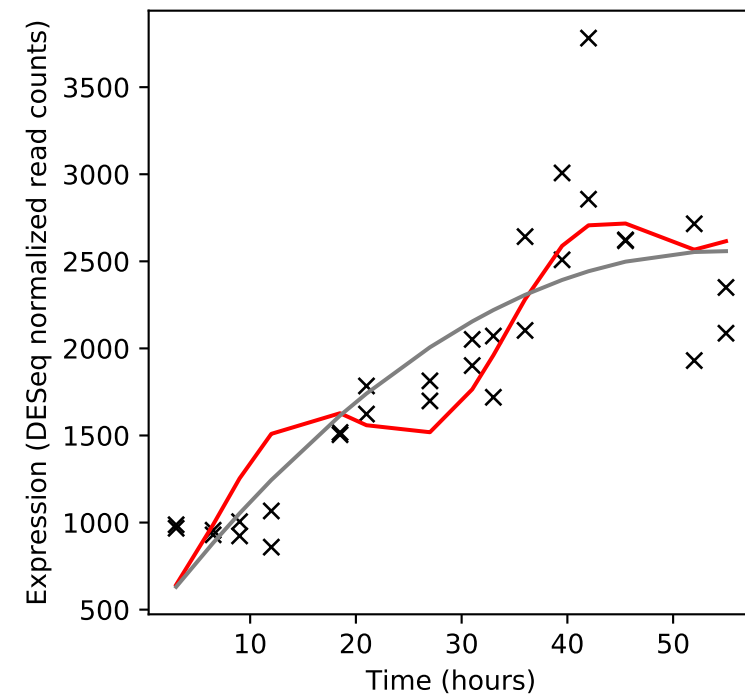
Rv1787/PPE25



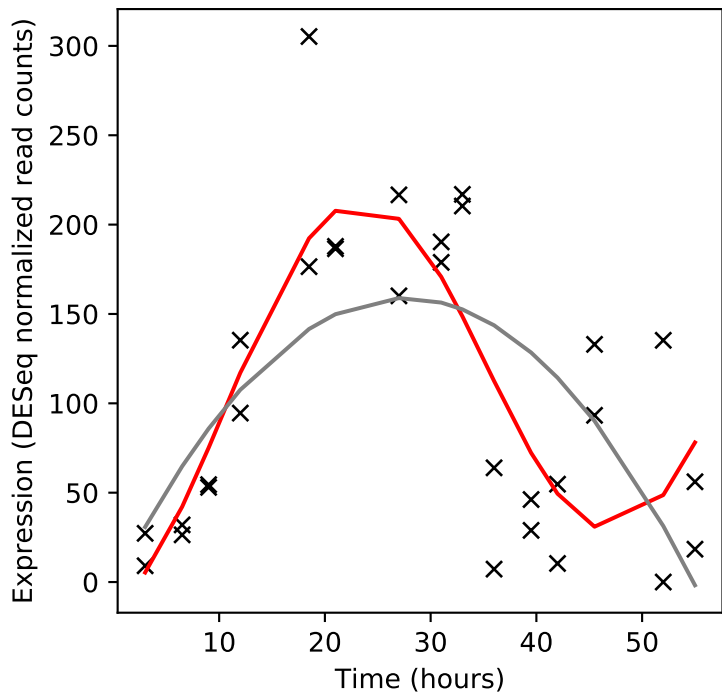
Rv1788/PE18



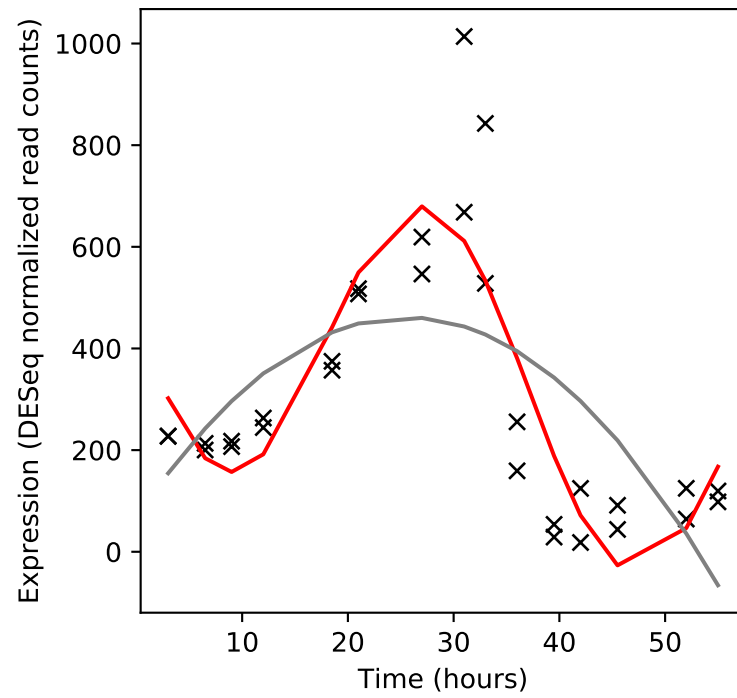
Rv1789/PPE26



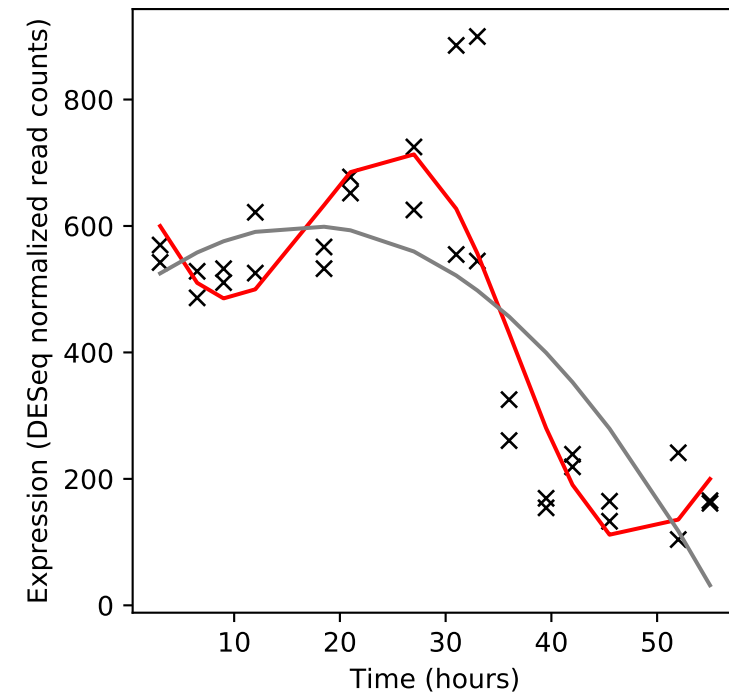
Rv1790/PPE27



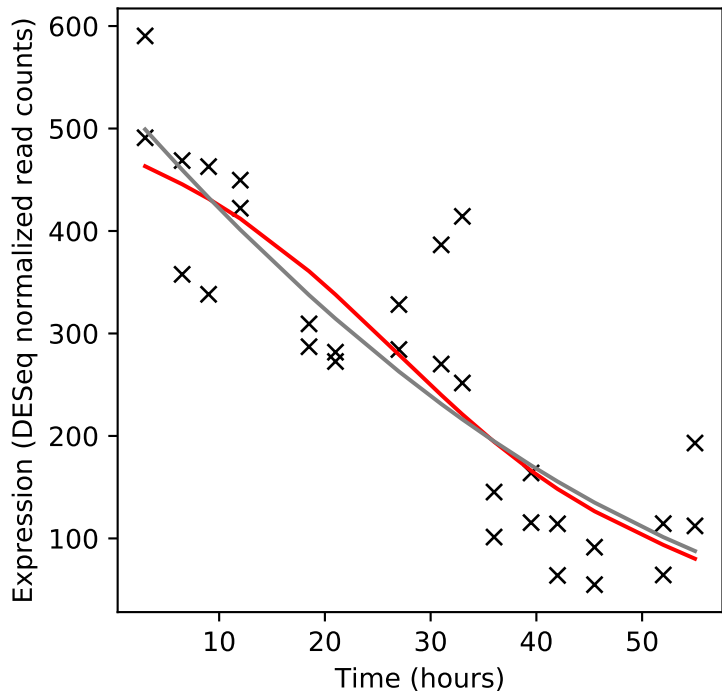
Rv1791/PE19



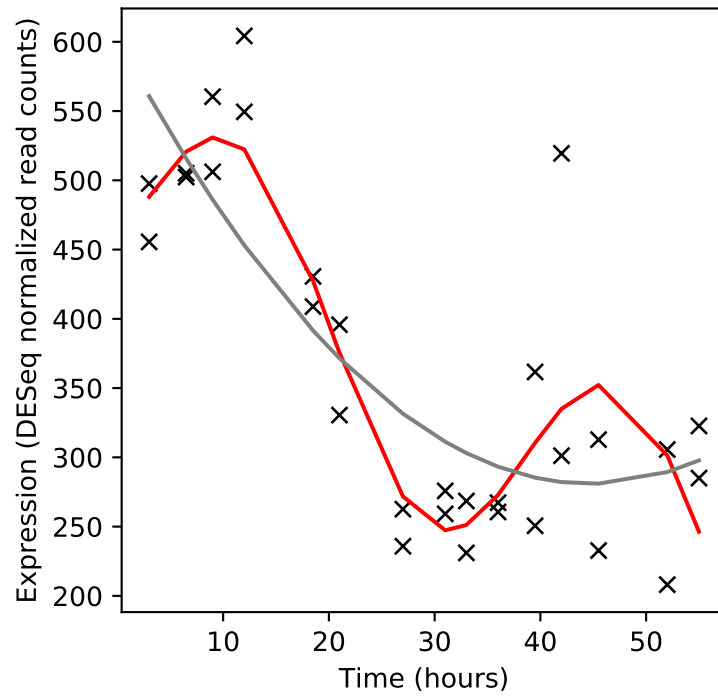
Rv1793/esxN



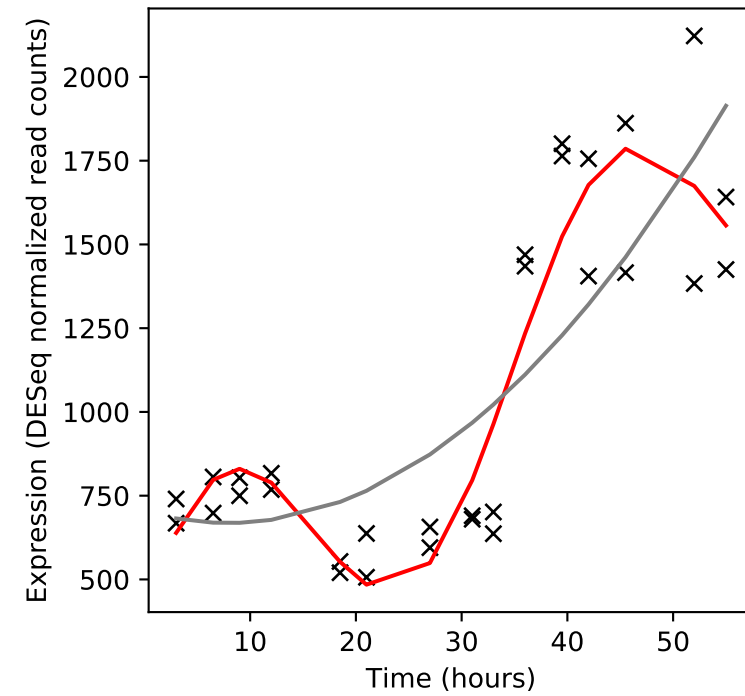
Rv1794/-



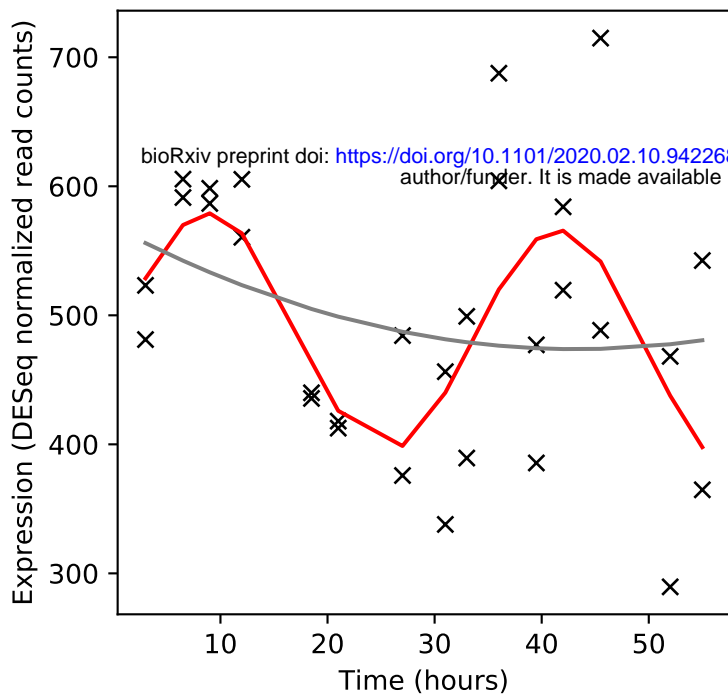
Rv1795/eccD5



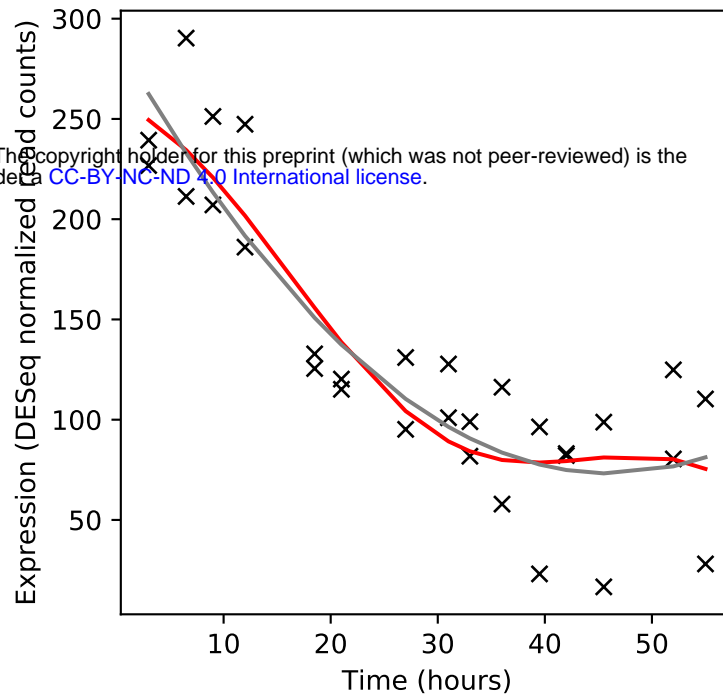
Rv1796/mycP5



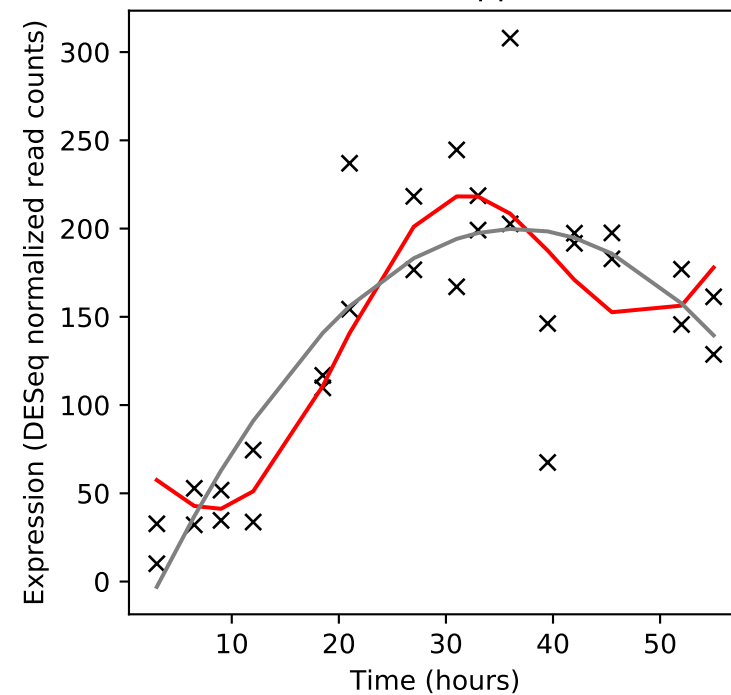
Rv1797/eccE5



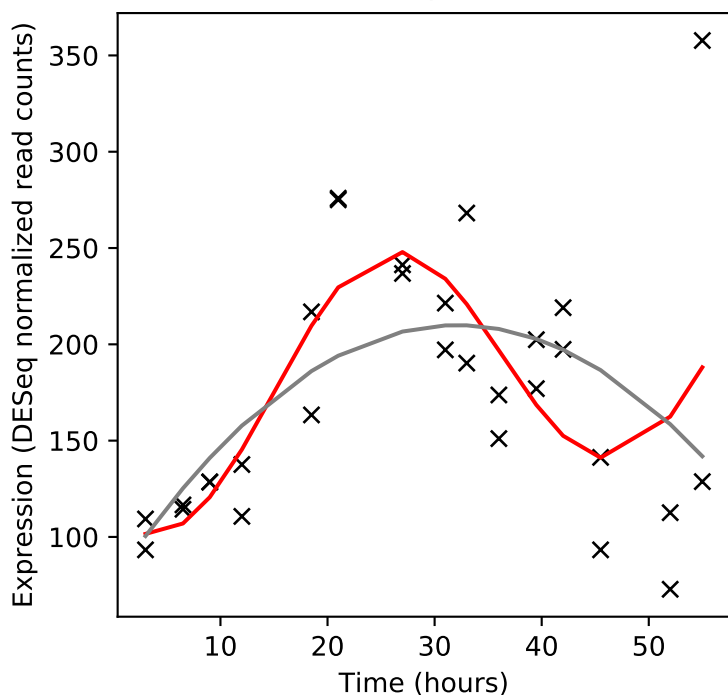
Rv1798/eccA5



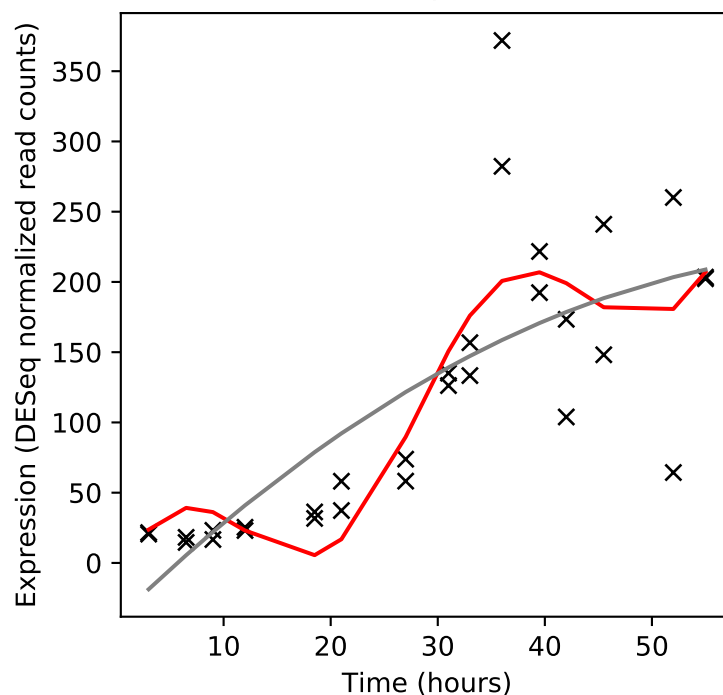
Rv1799/lppT



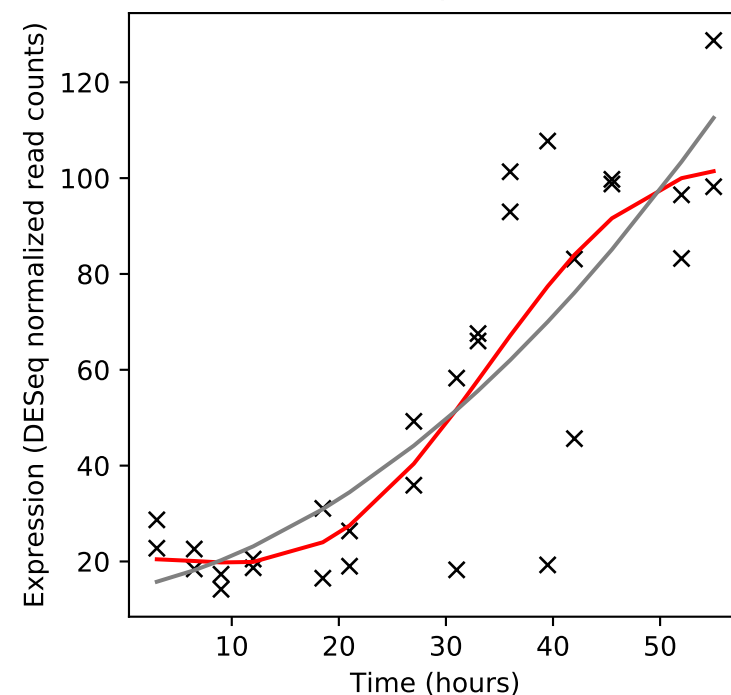
Rv1800/PPE28



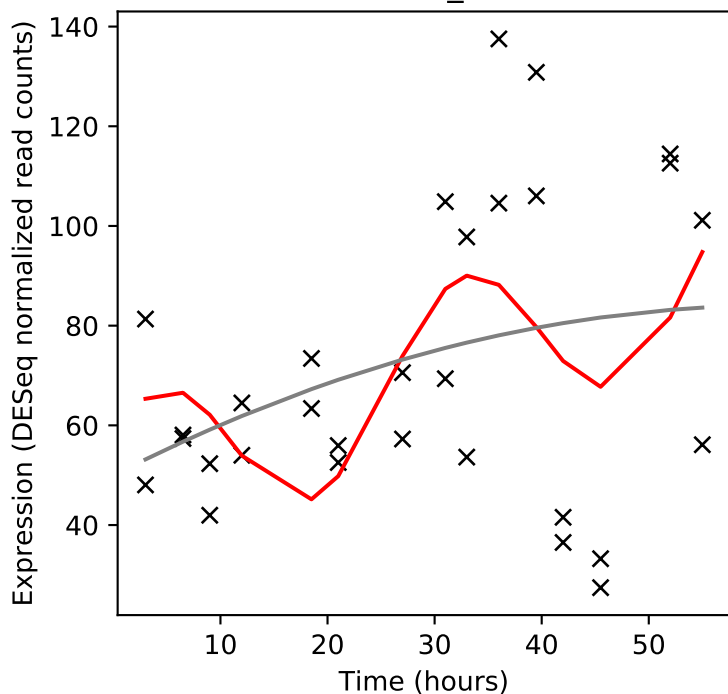
Rv1801/PPE29



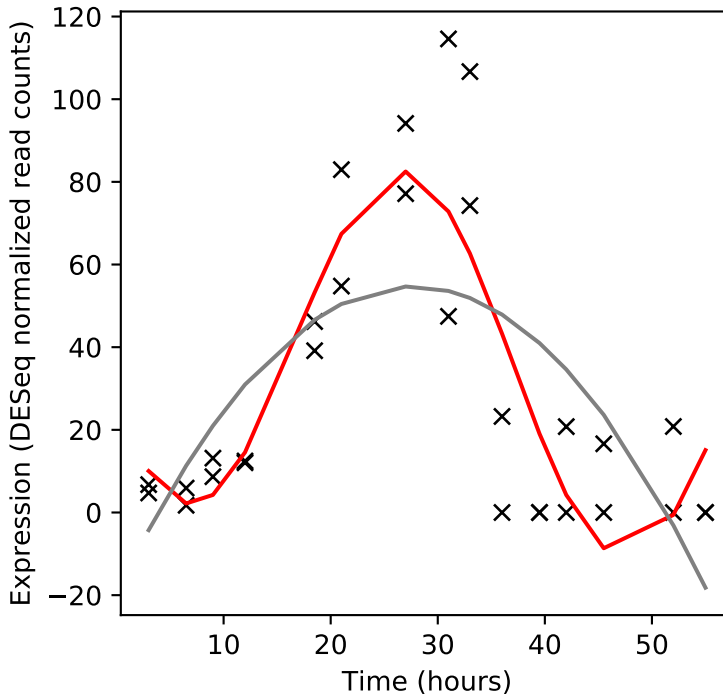
Rv1802/PPE30



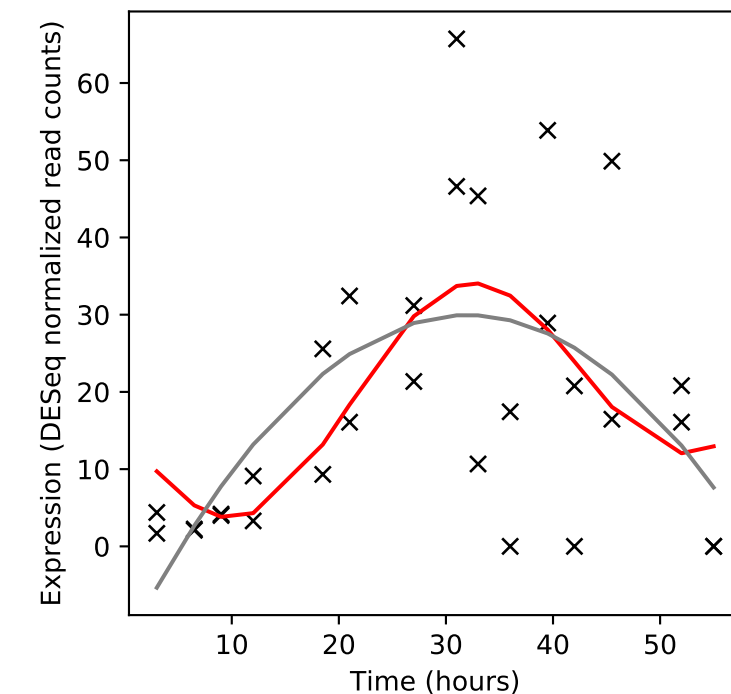
Rv1803c/PE_PGRS32



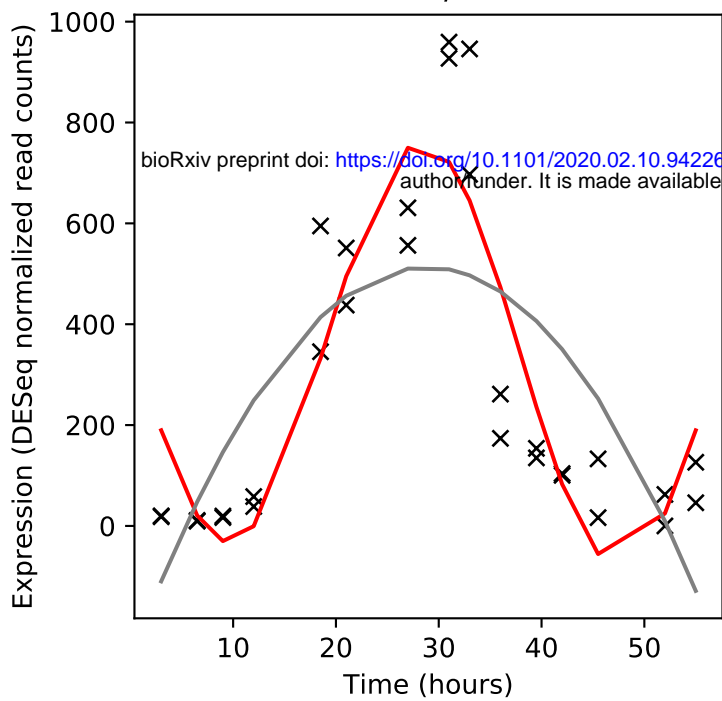
Rv1804c/-



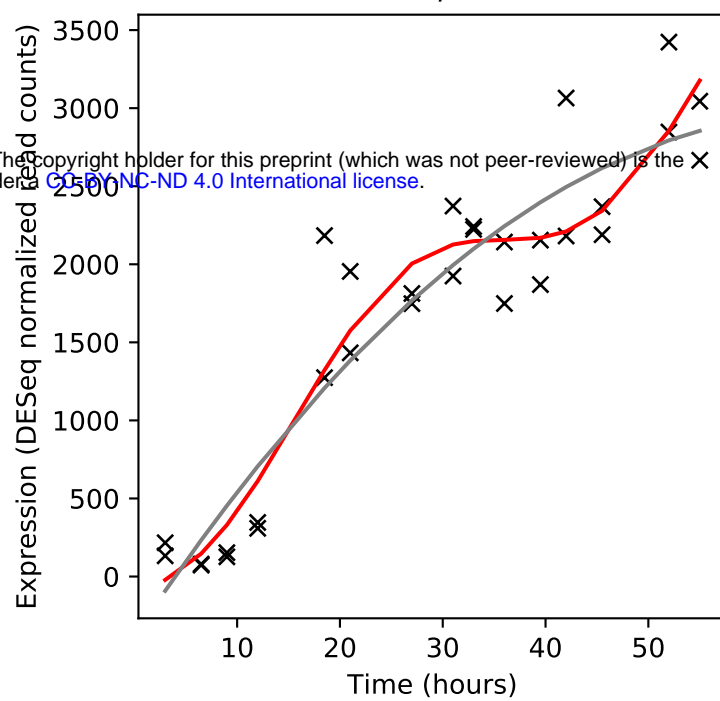
Rv1805c/-



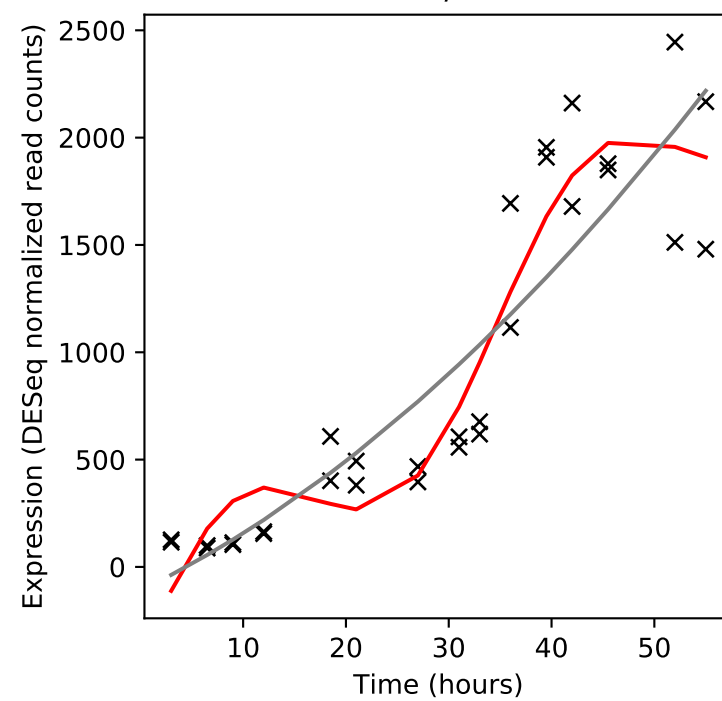
Rv1806/PE20



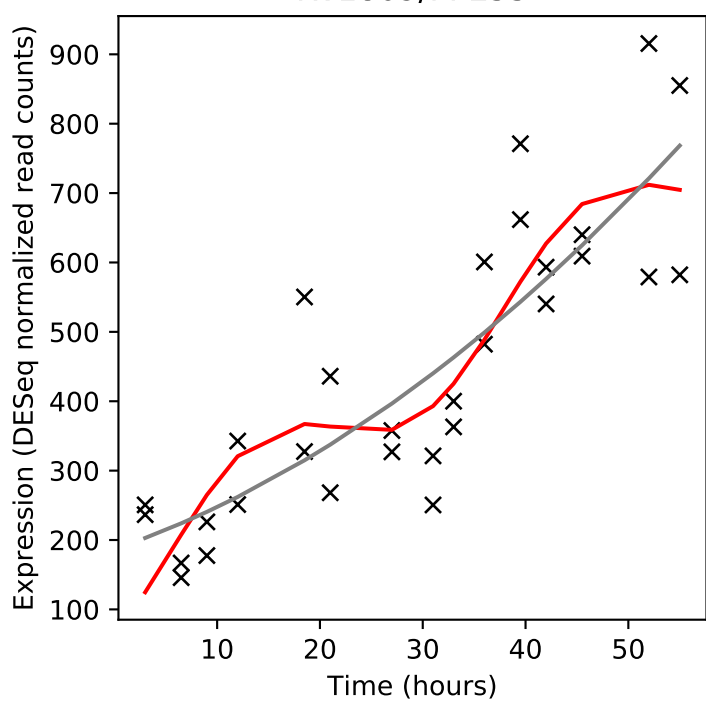
Rv1807/PPE31



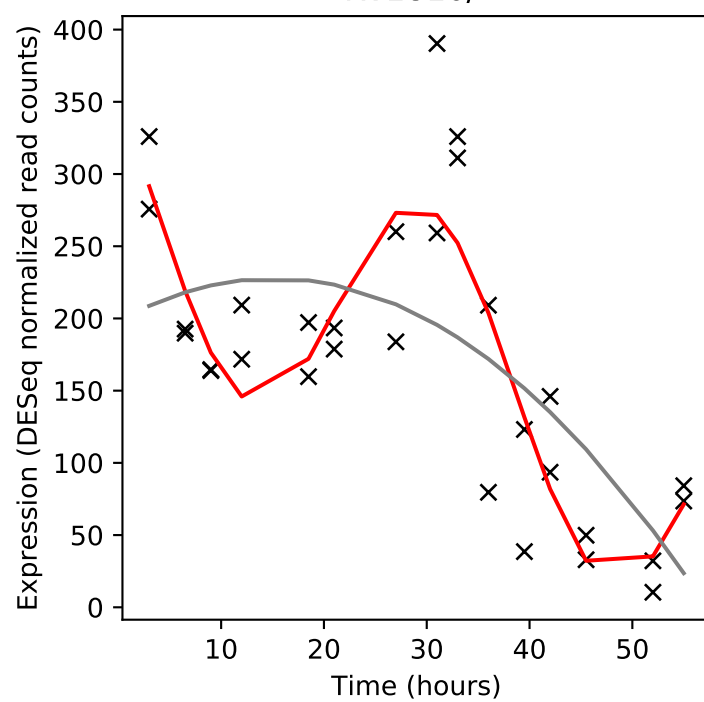
Rv1808/PPE32



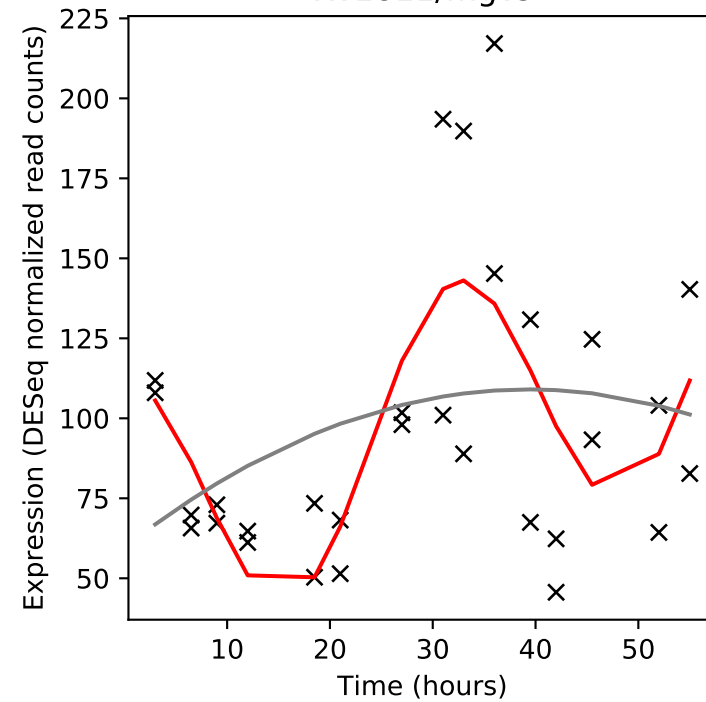
Rv1809/PPE33



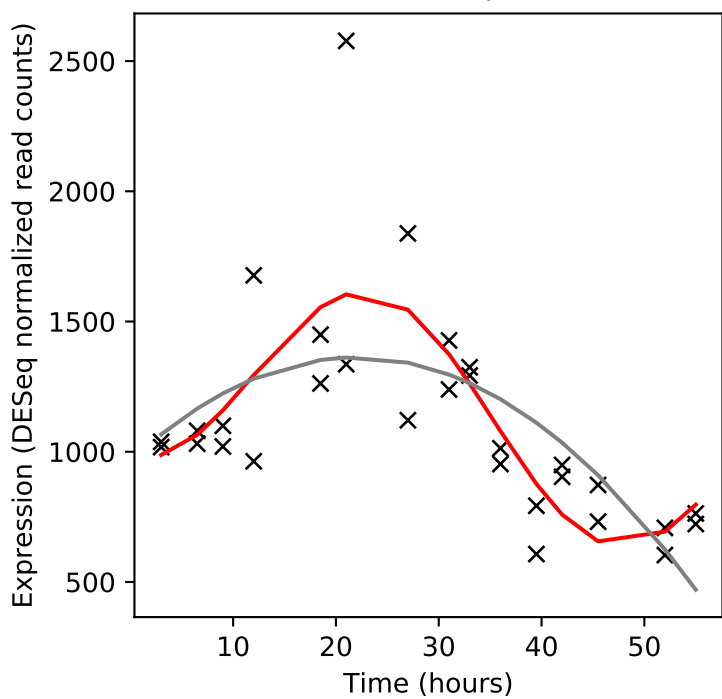
Rv1810/-



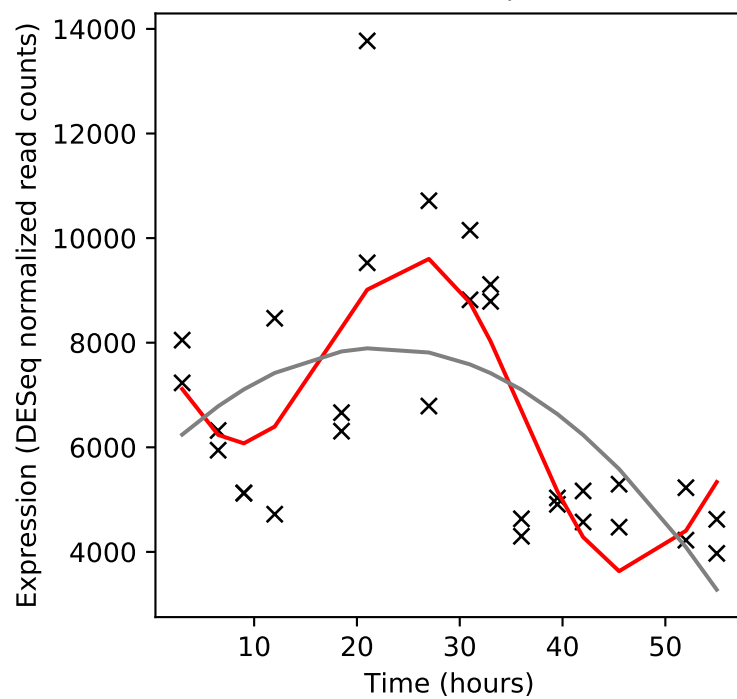
Rv1811/mgtC



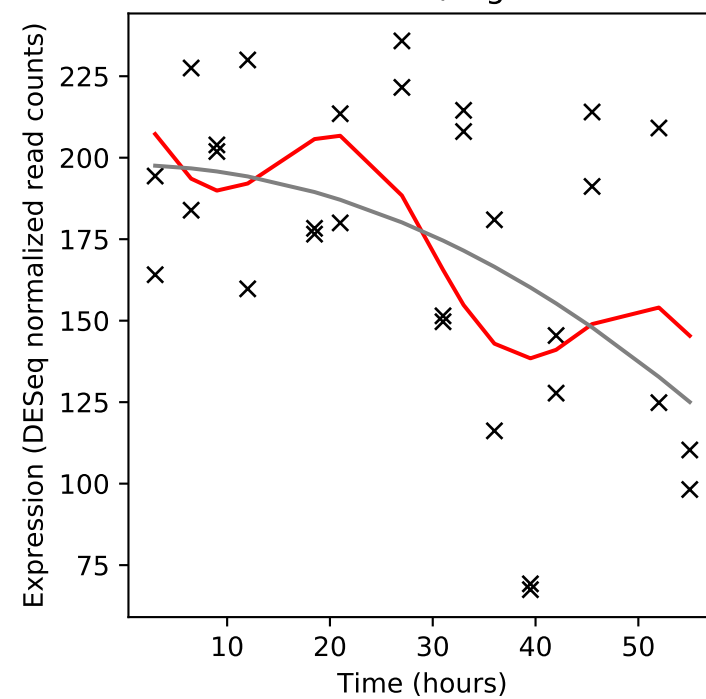
Rv1812c/-



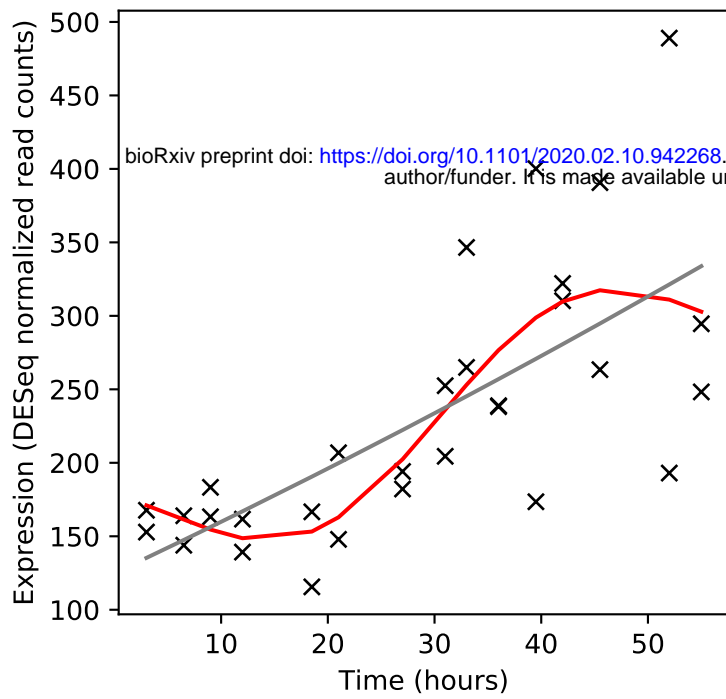
Rv1813c/-



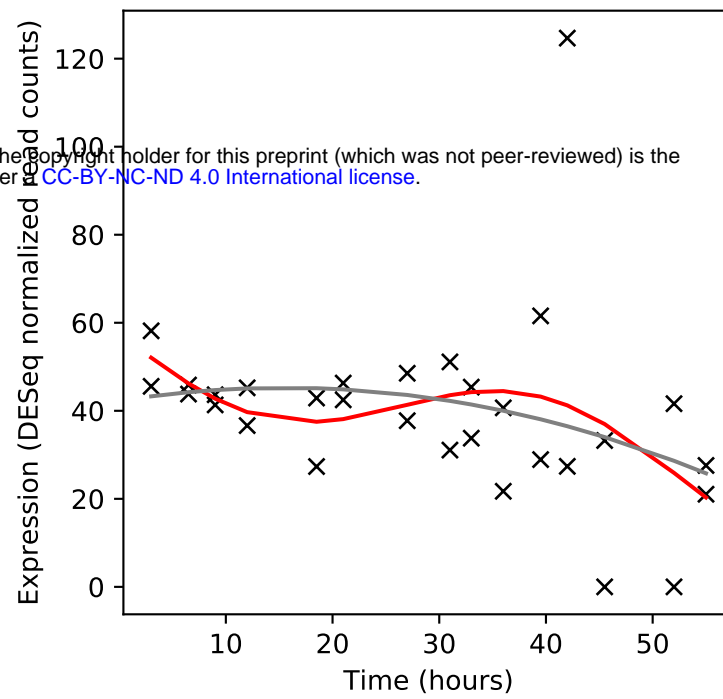
Rv1814/erg3



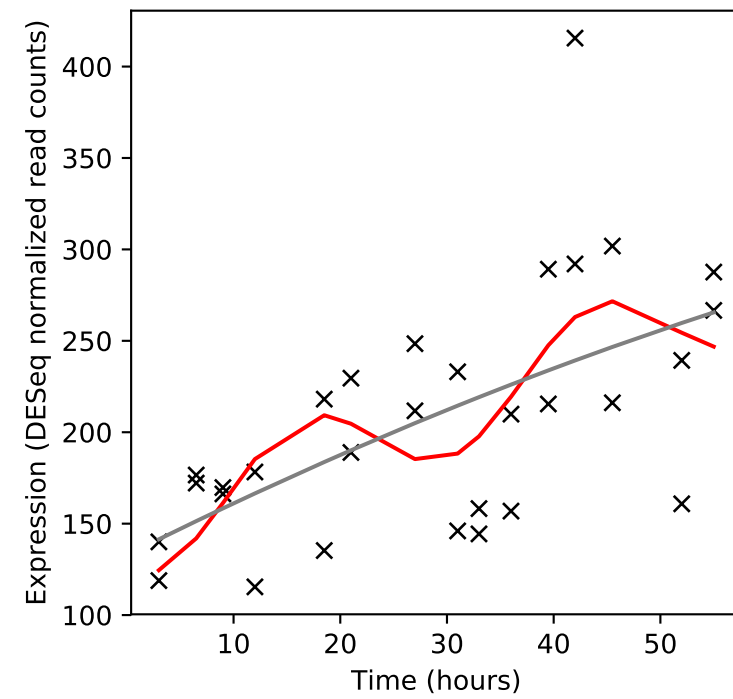
Rv1815/-



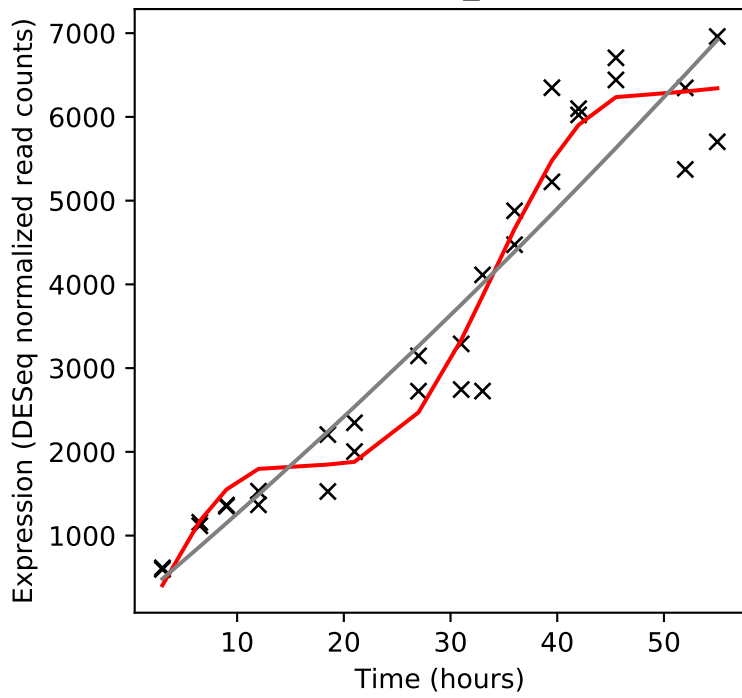
Rv1816/-



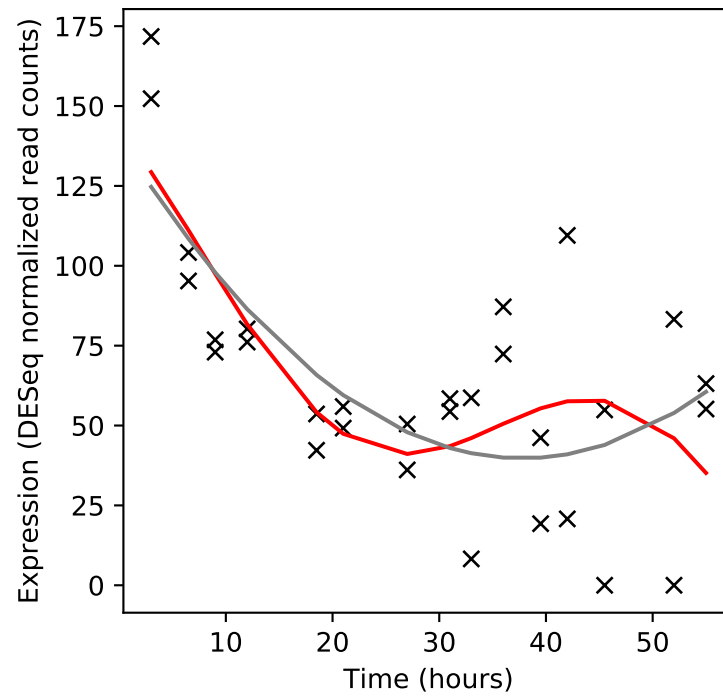
Rv1817/-



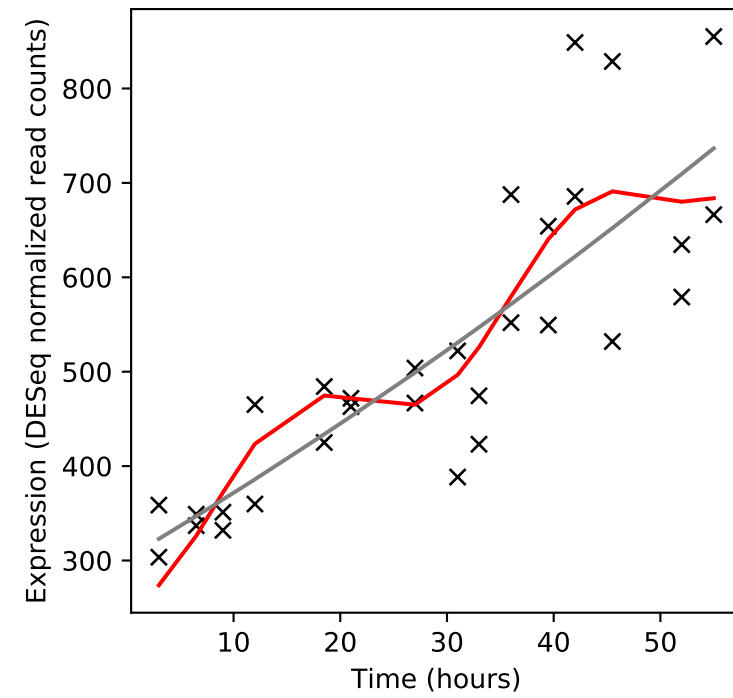
Rv1818c/PE_PGRS33



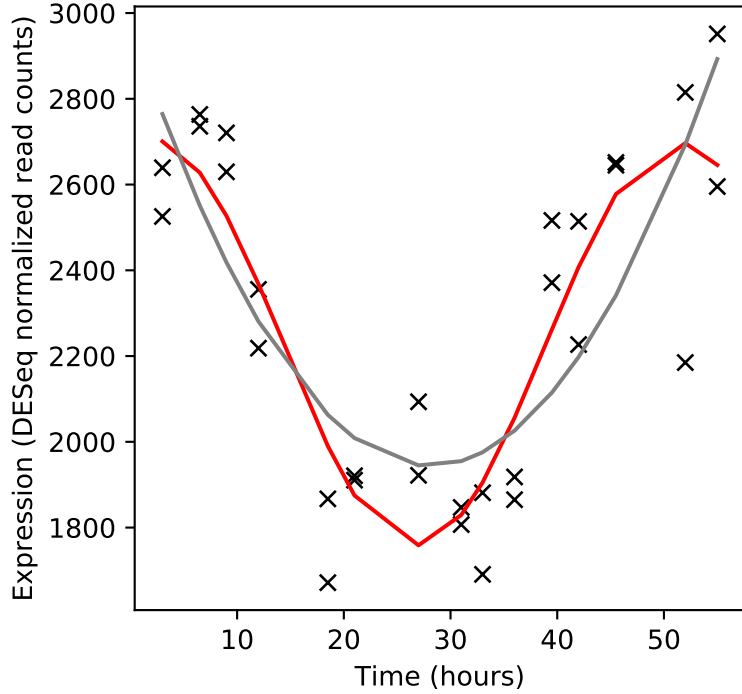
Rv1819c/bacA



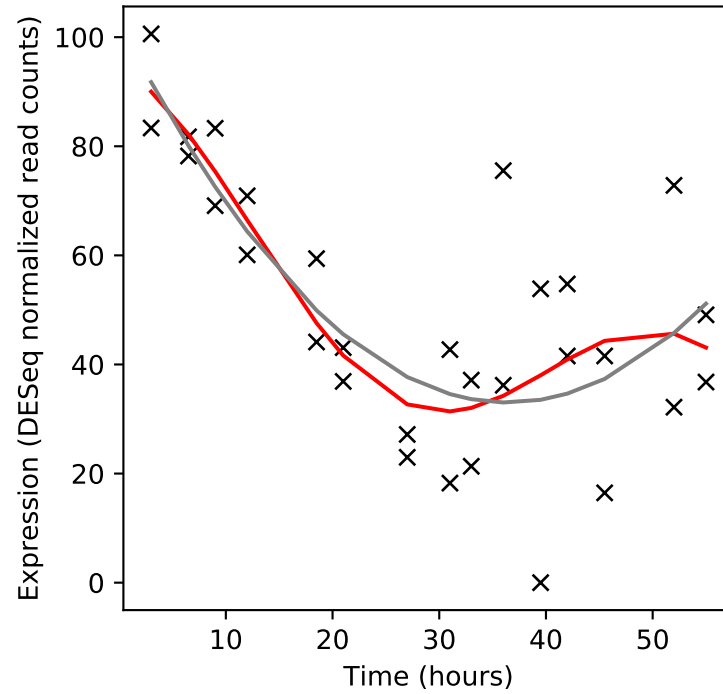
Rv1820/ilvG



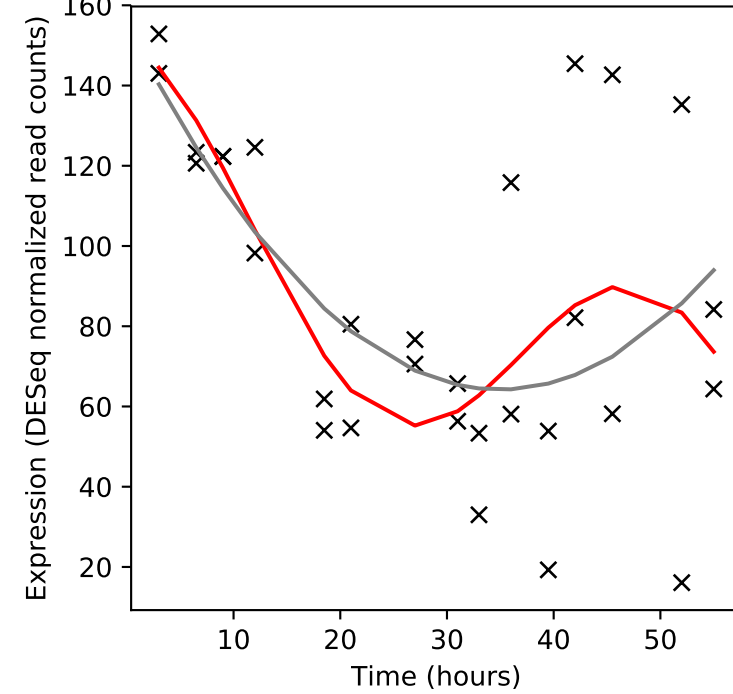
Rv1821/secA2



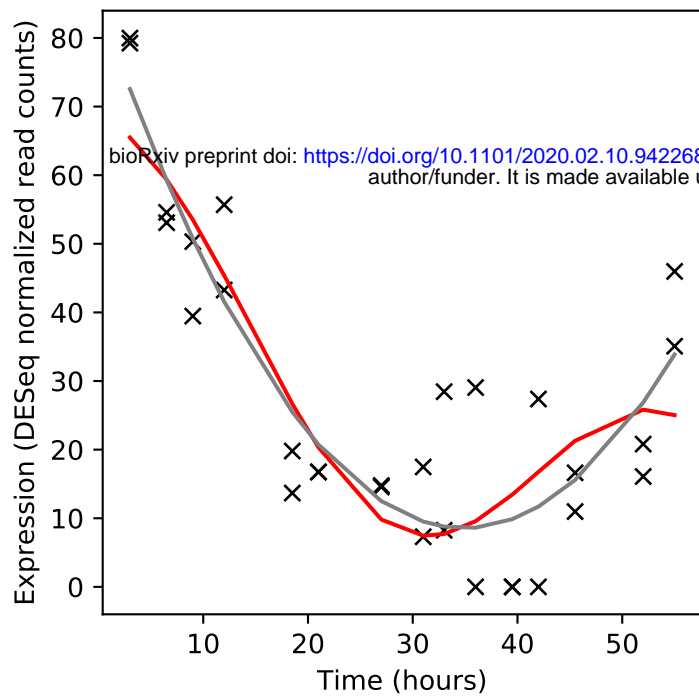
Rv1822/pgsA2



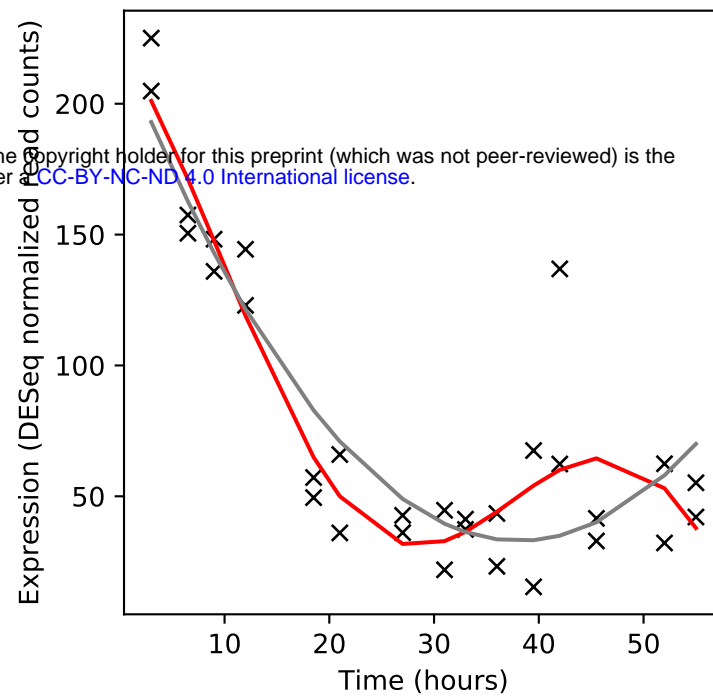
Rv1823/-



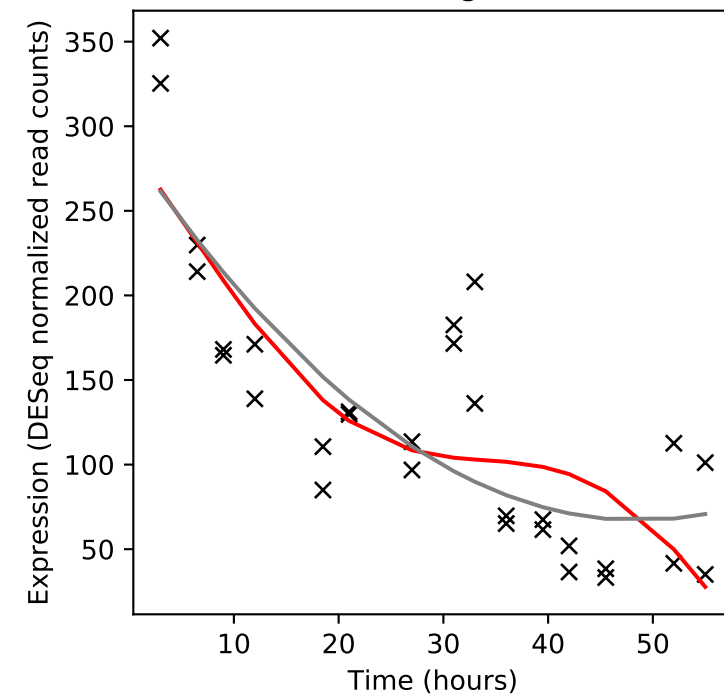
Rv1824/-



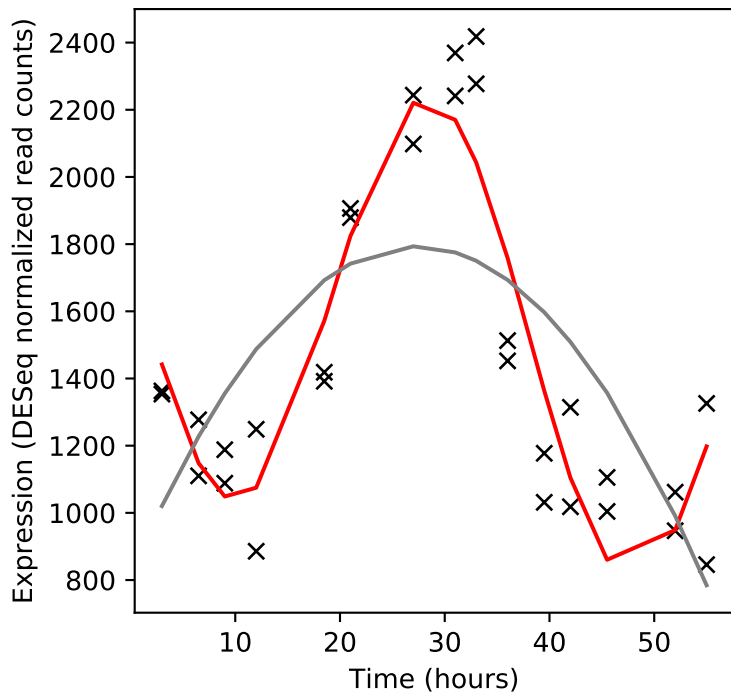
Rv1825/-



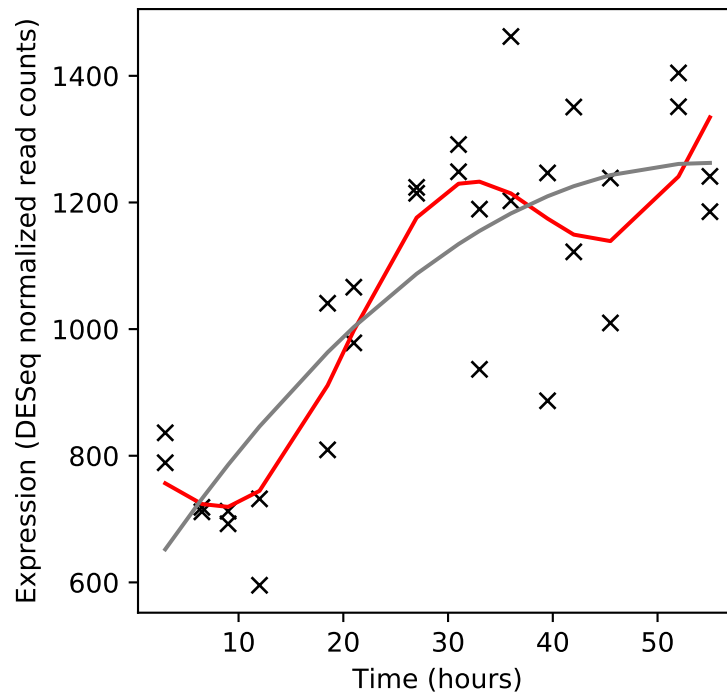
Rv1826/gcvH



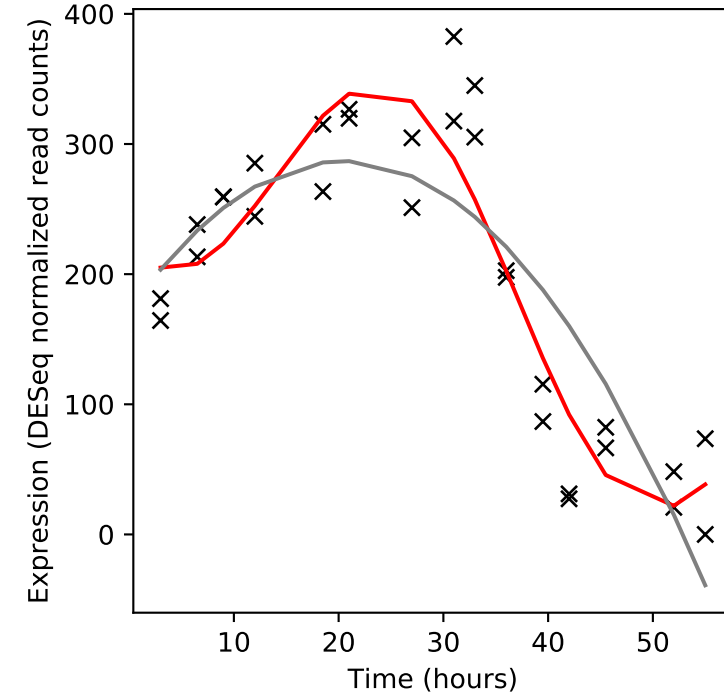
Rv1827/garA



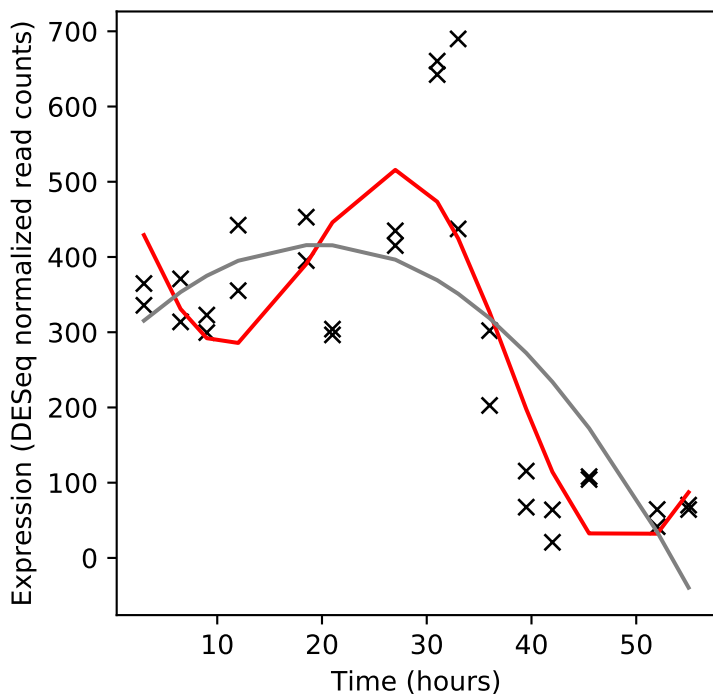
Rv1828/-



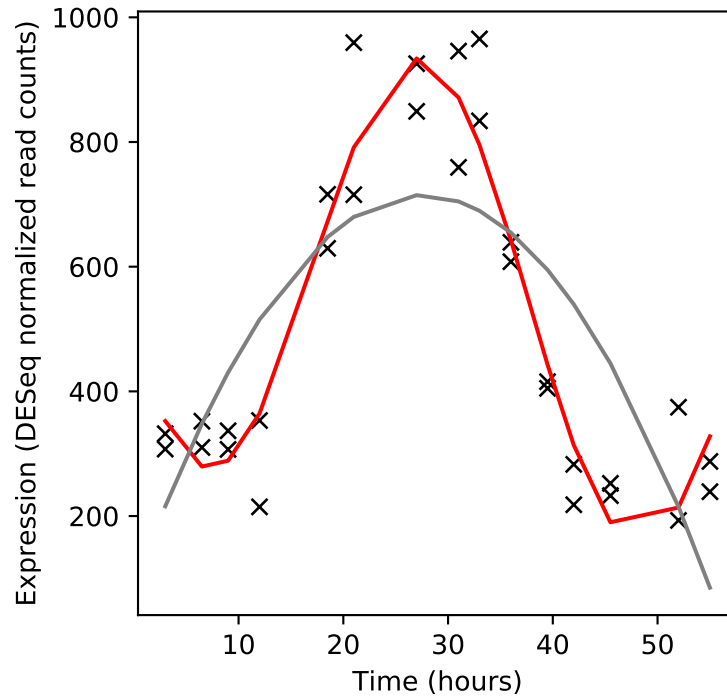
Rv1829/-



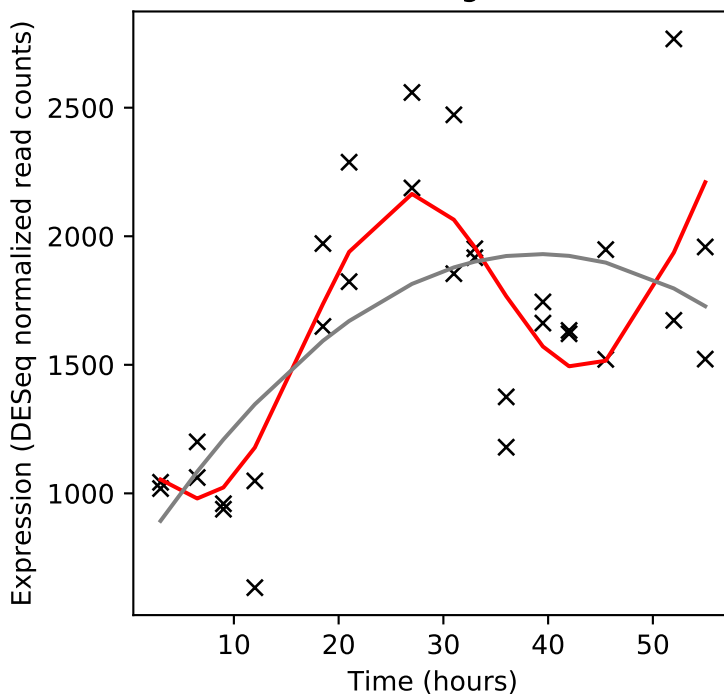
Rv1830/-



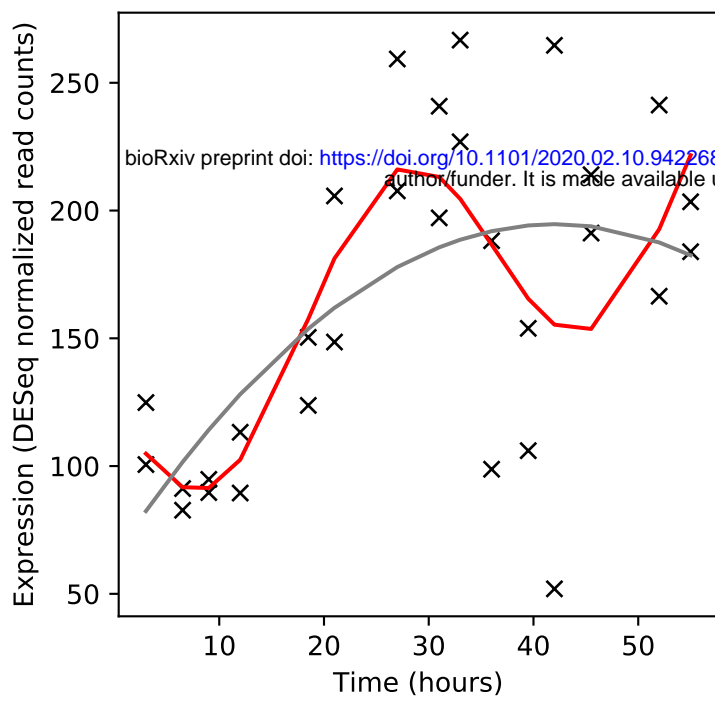
Rv1831/-



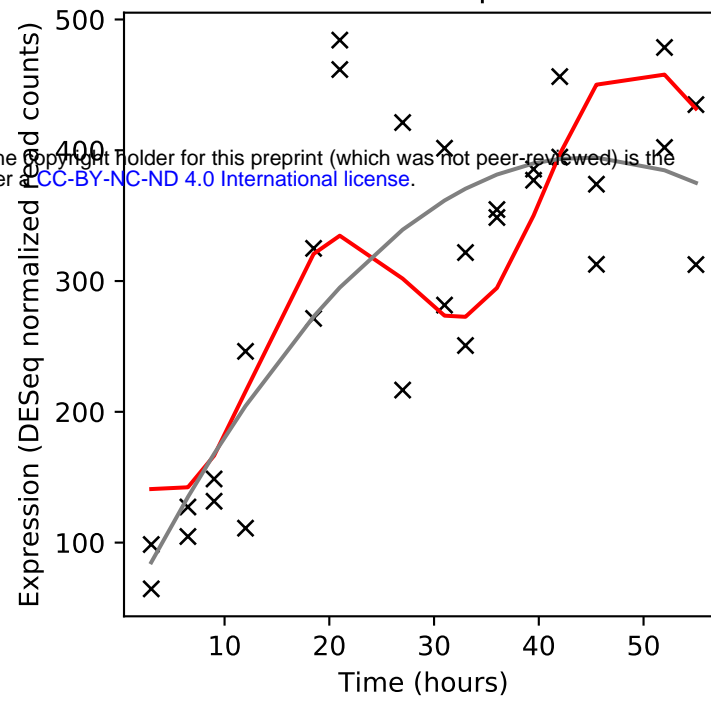
Rv1832/gcvB



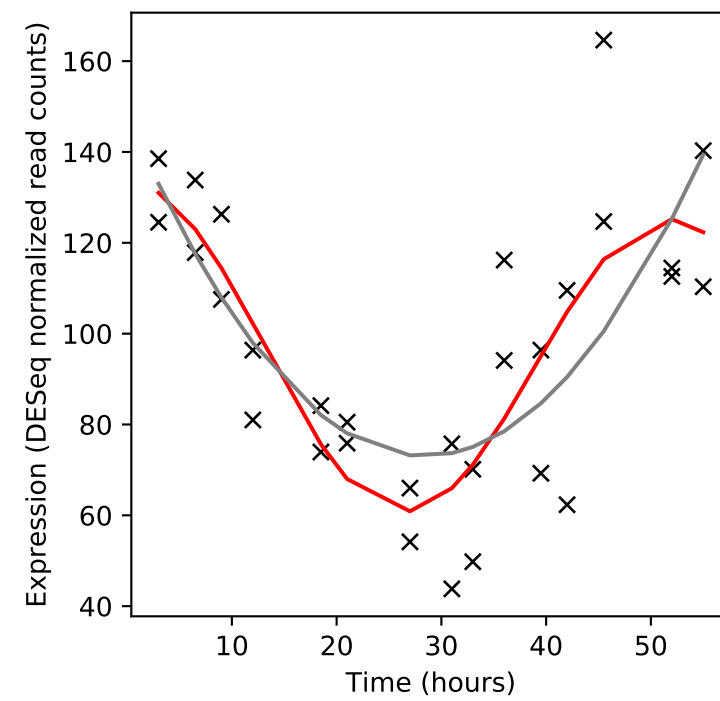
Rv1833c/-



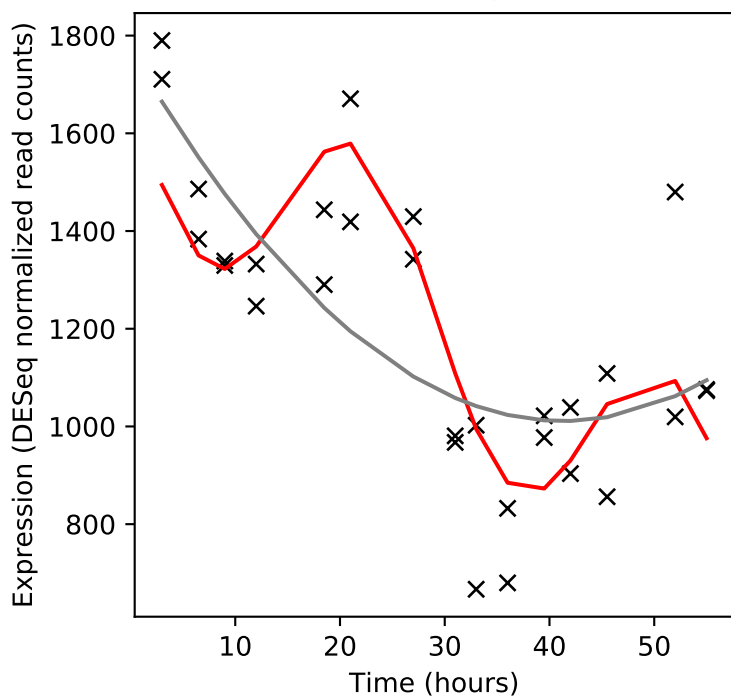
Rv1834/lipZ



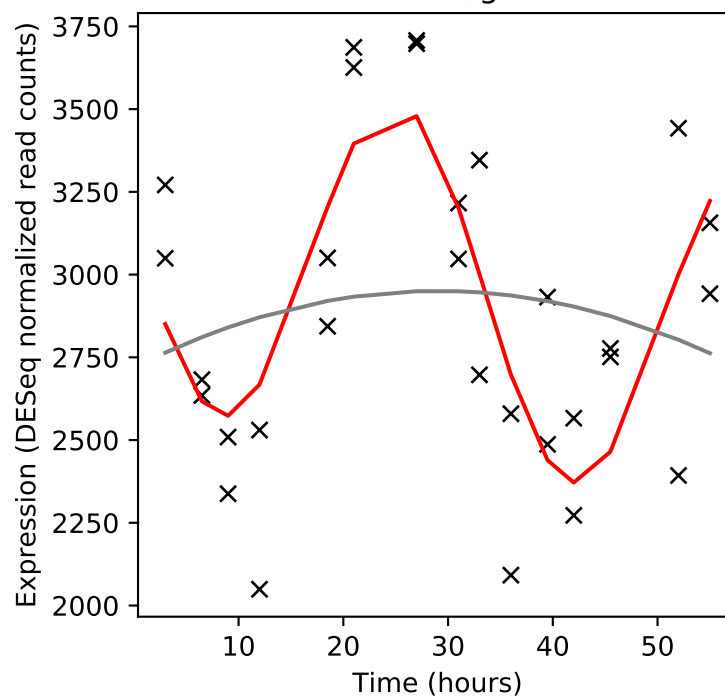
Rv1835c/-



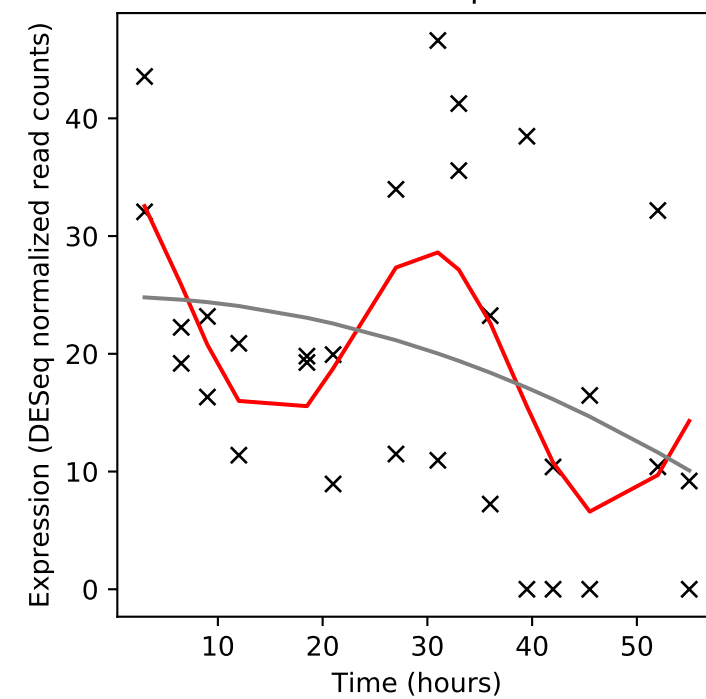
Rv1836c/-



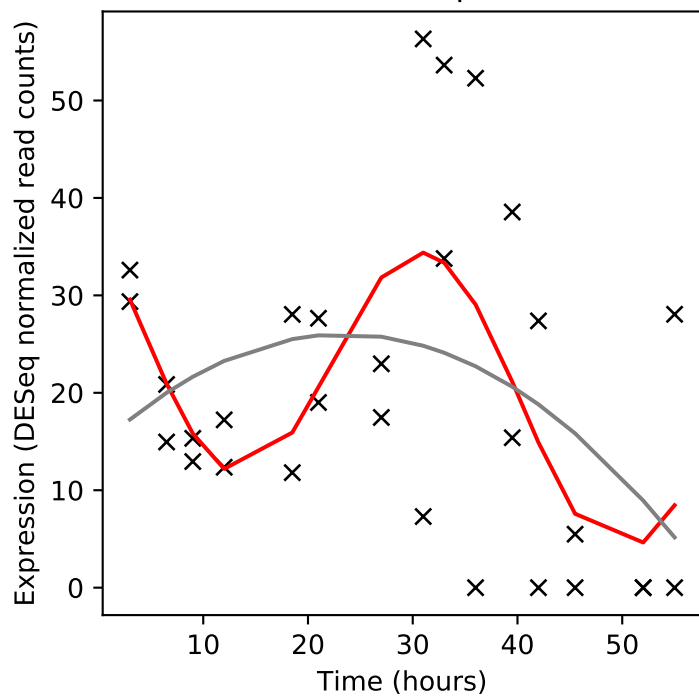
Rv1837c/glcB



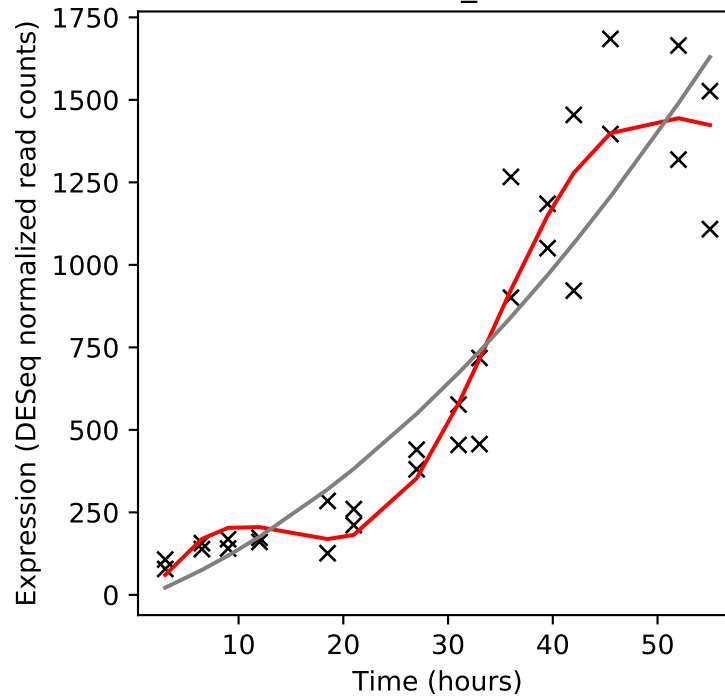
Rv1838c/vapC13



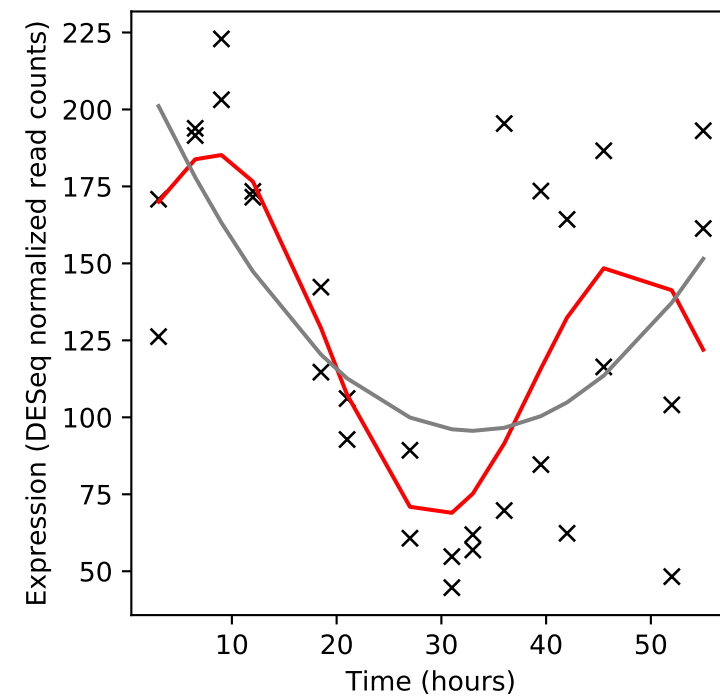
Rv1839c/vapB13



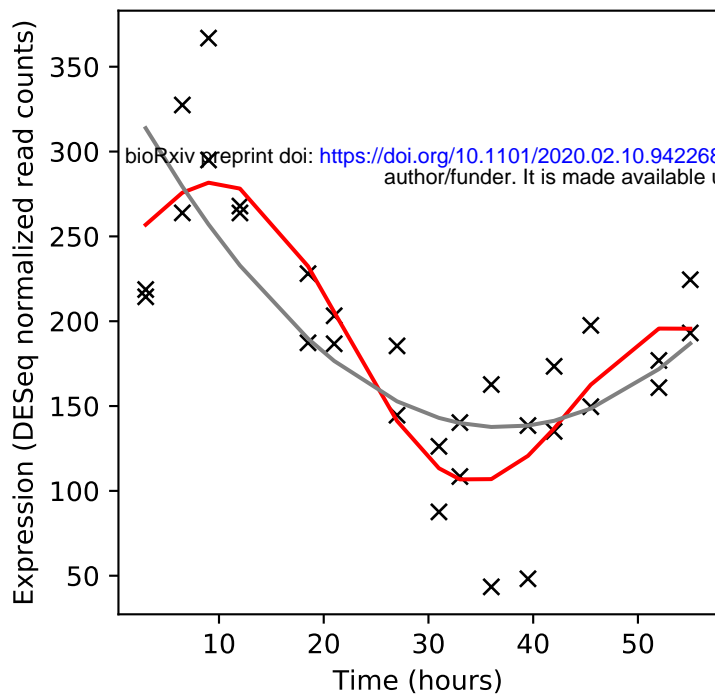
Rv1840c/PE_PGRS34



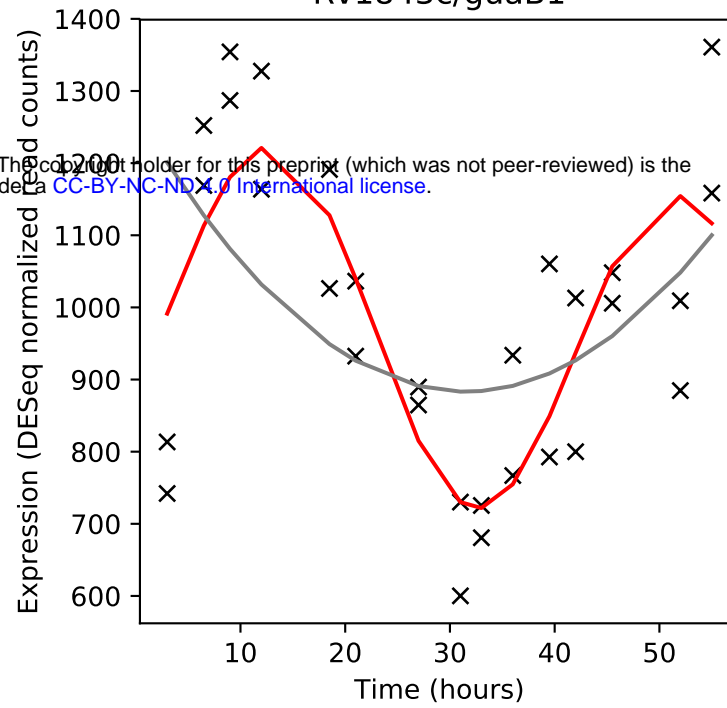
Rv1841c/-



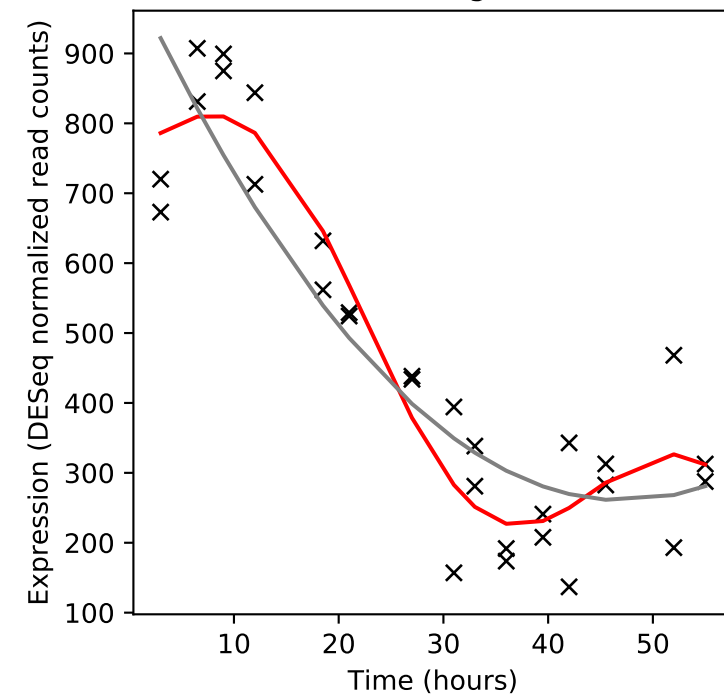
Rv1842c/-



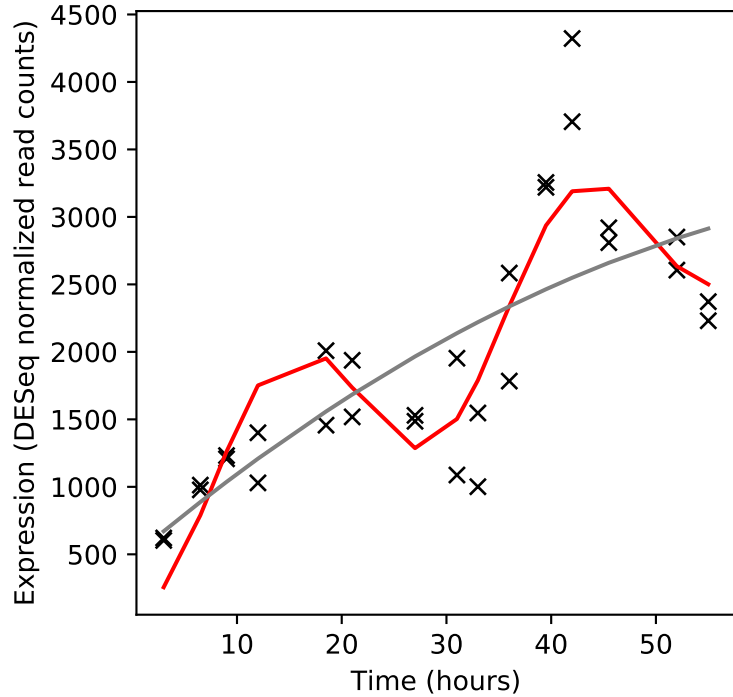
Rv1843c/guaB1



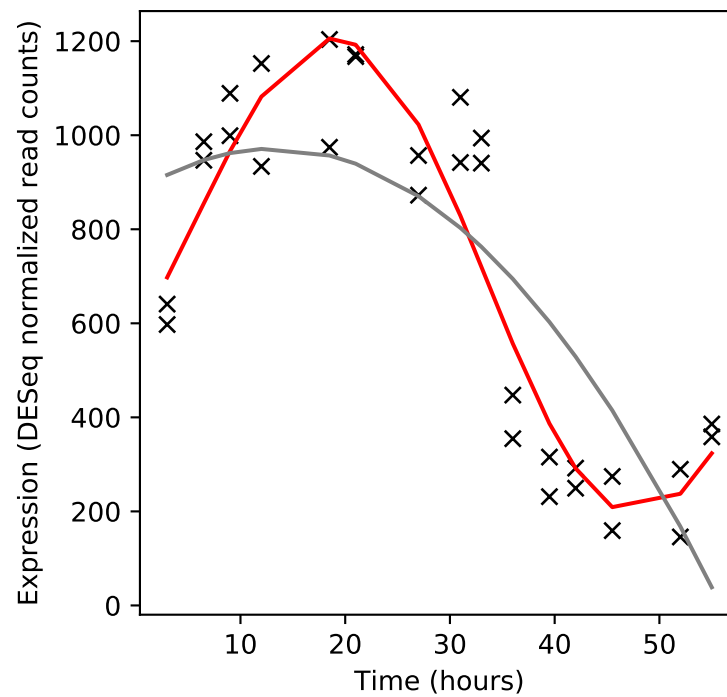
Rv1844c/gnd1



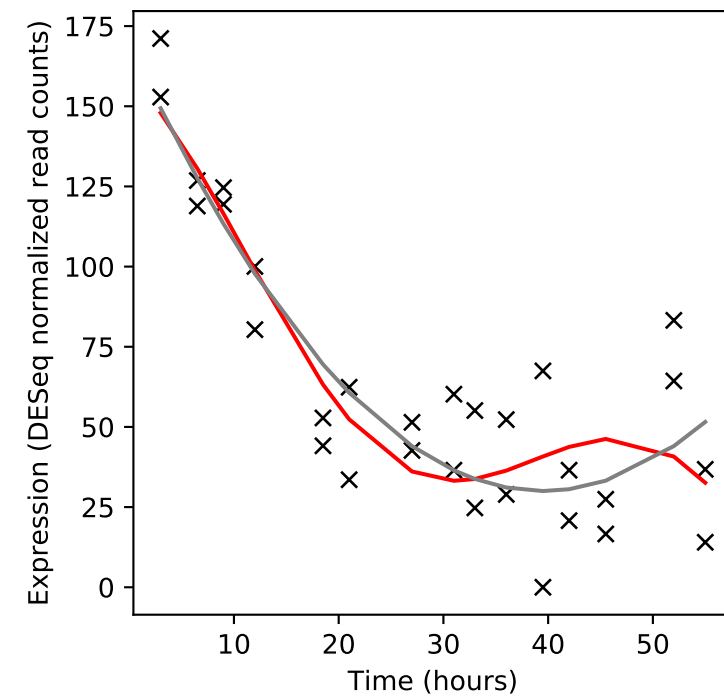
Rv1845c/blaR



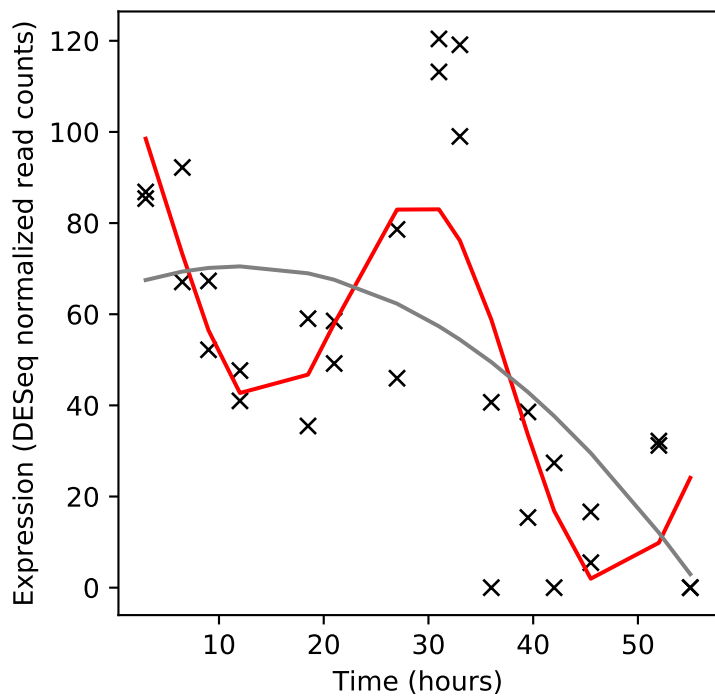
Rv1846c/blal



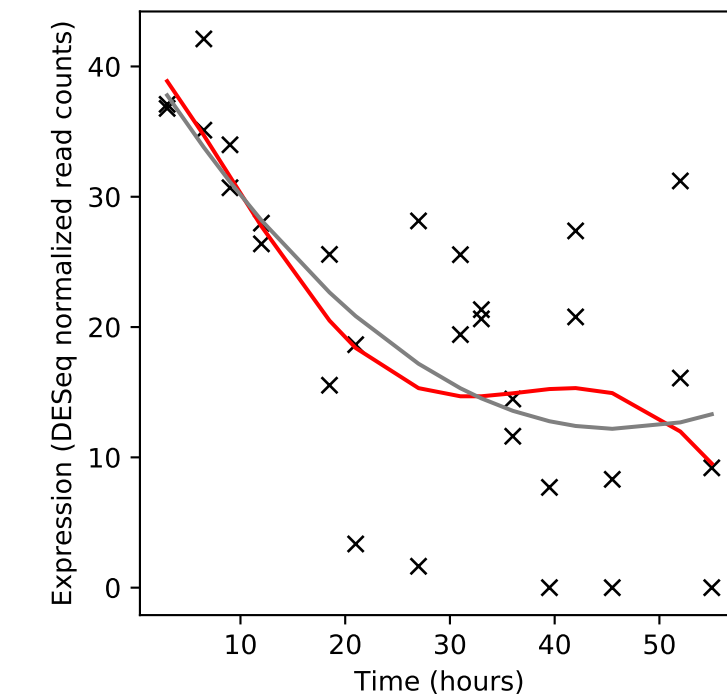
Rv1847/-



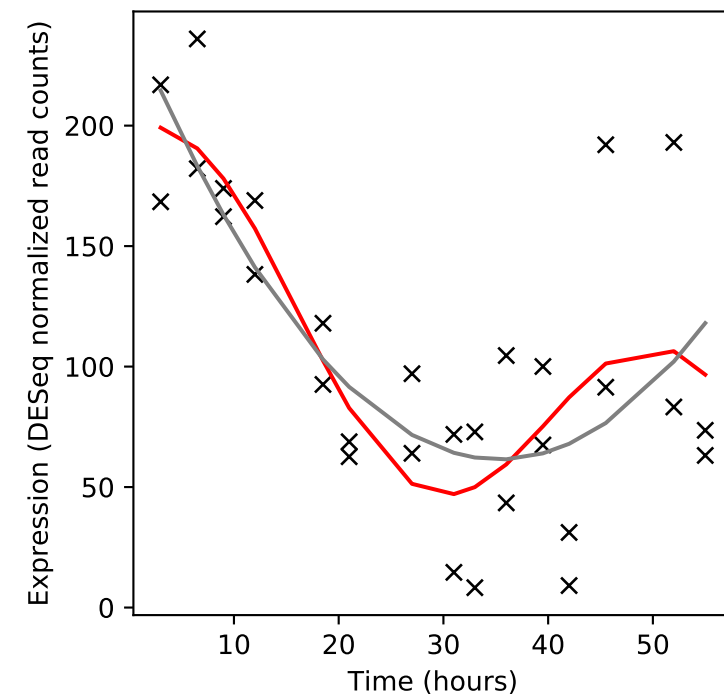
Rv1848/ureA



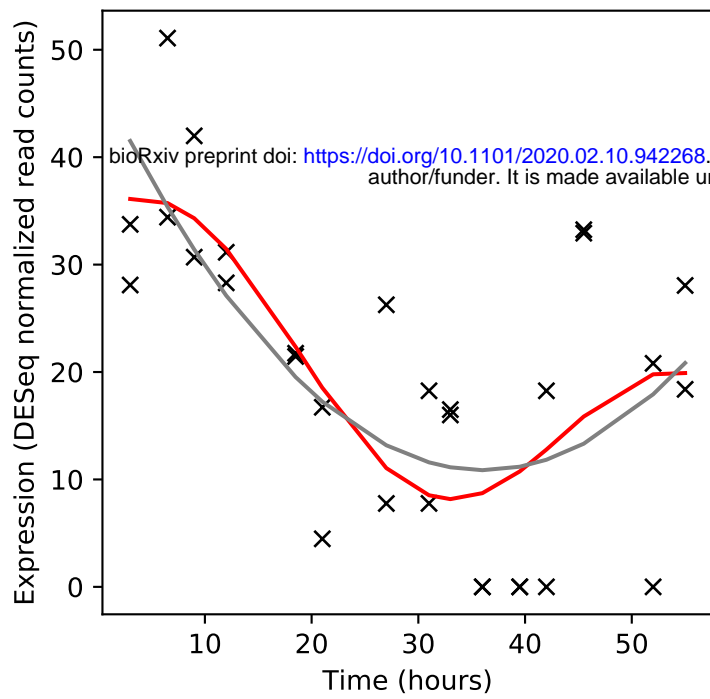
Rv1849/ureB



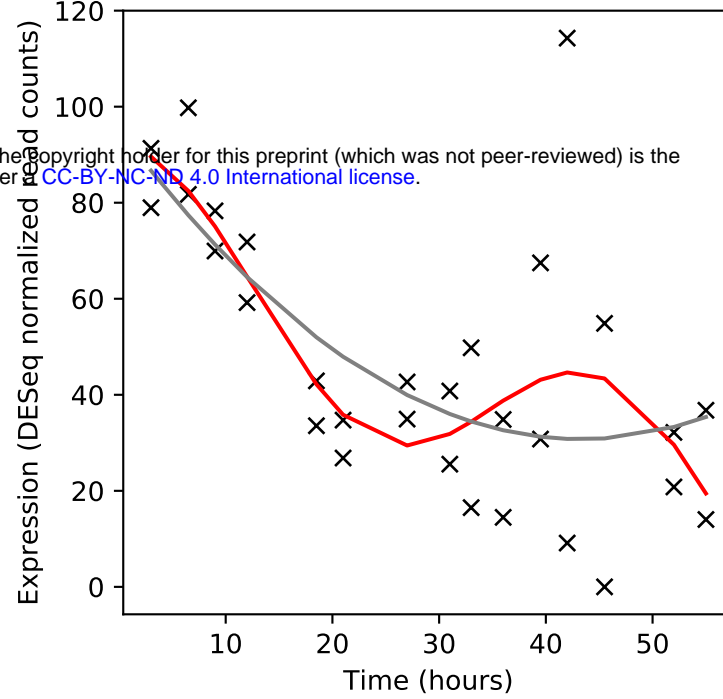
Rv1850/ureC



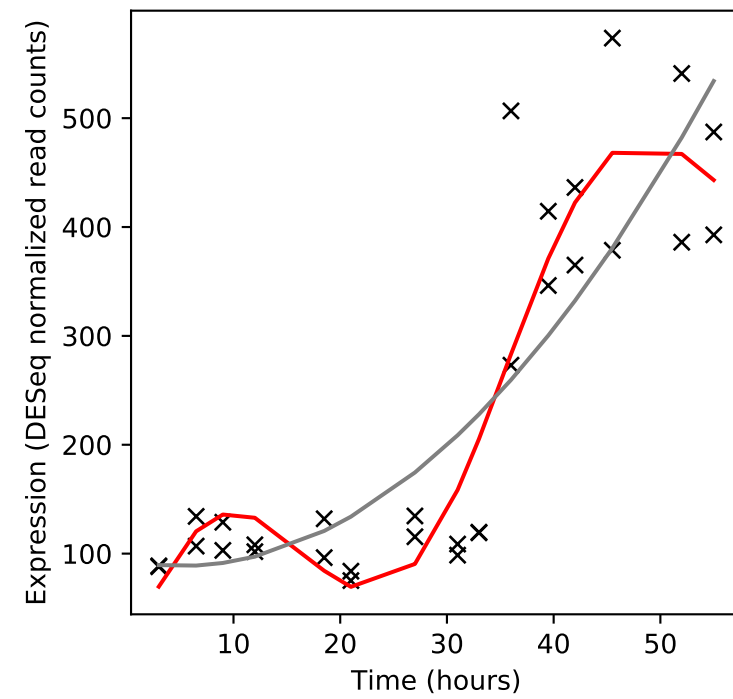
Rv1851/ureF



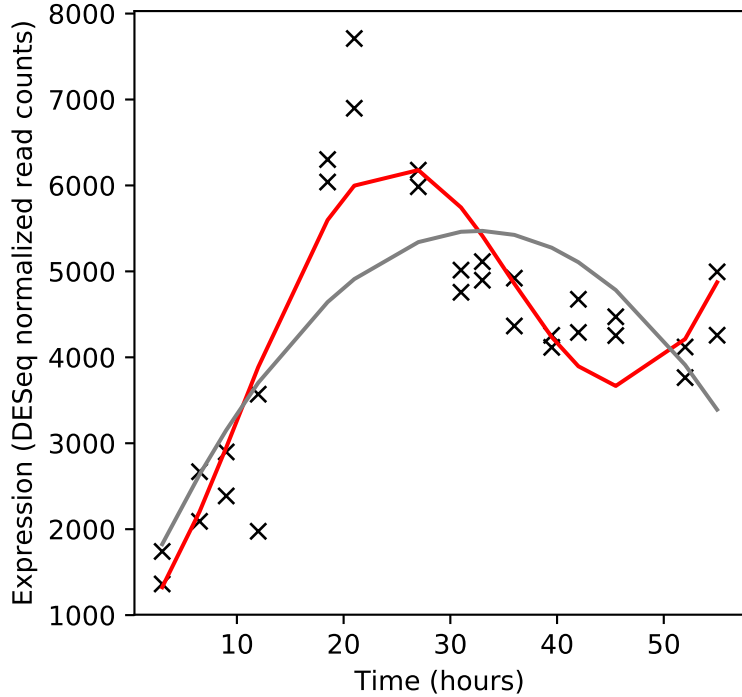
Rv1852/ureG



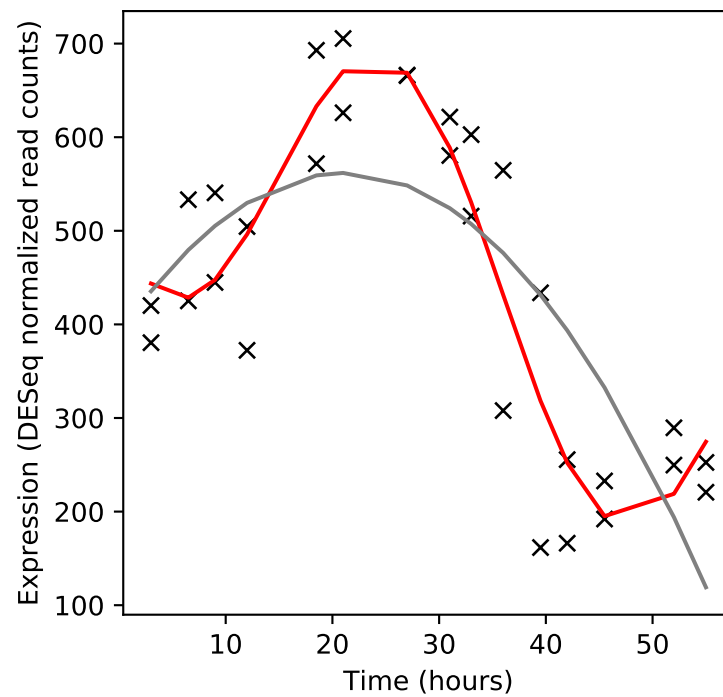
Rv1853/ureD



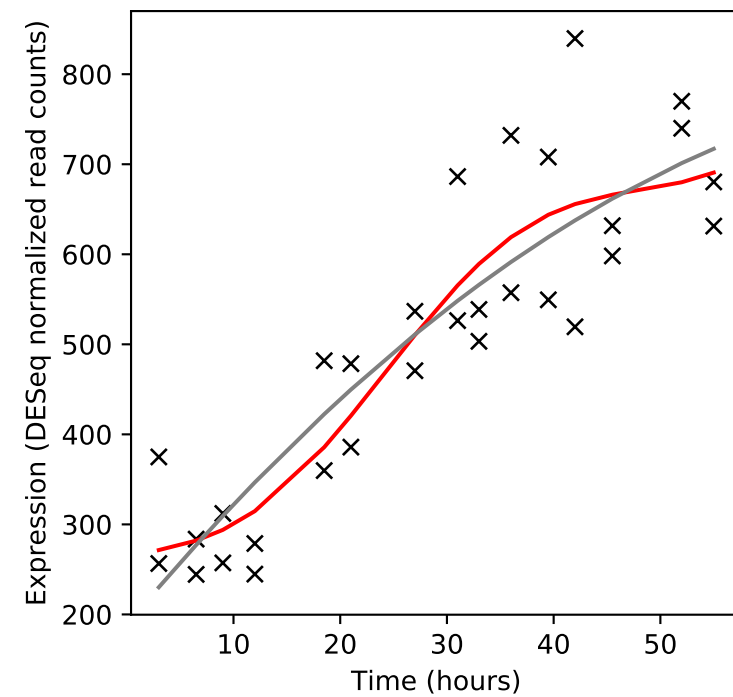
Rv1854c/ndh



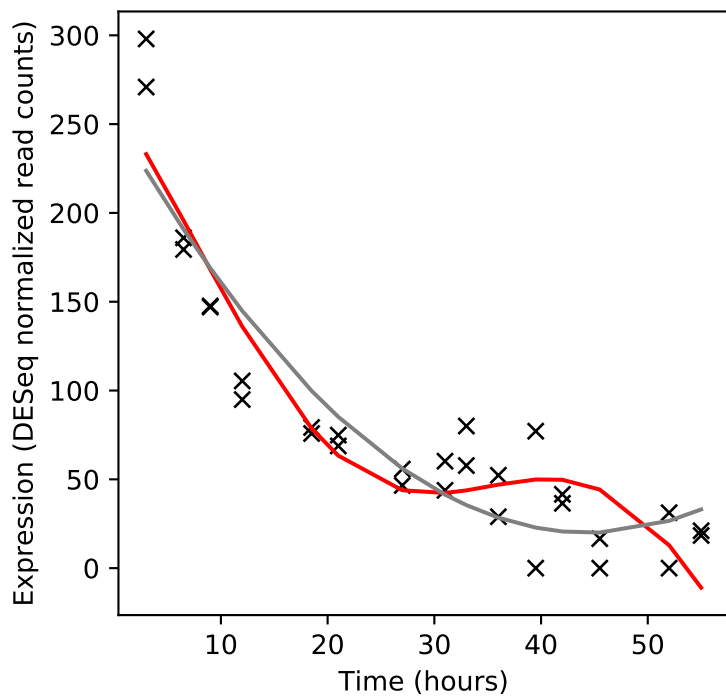
Rv1855c/-



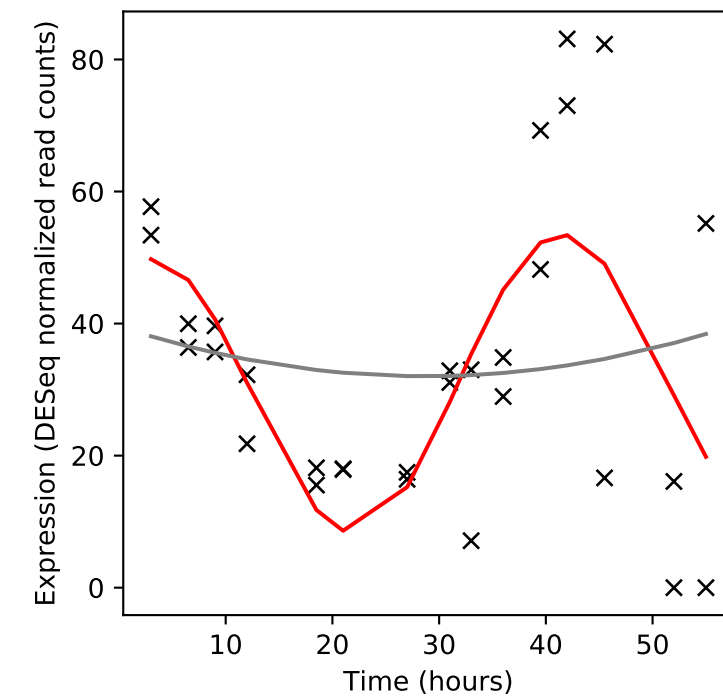
Rv1856c/-



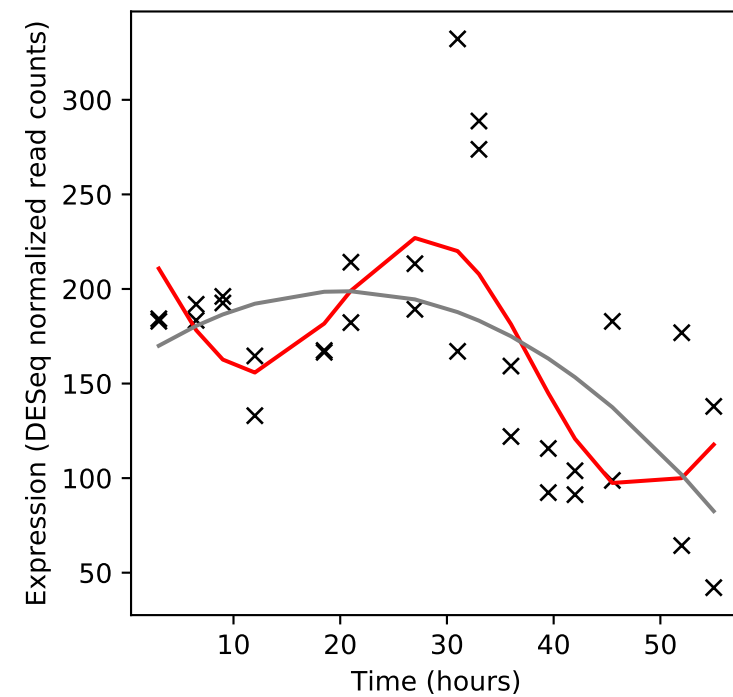
Rv1857/modA

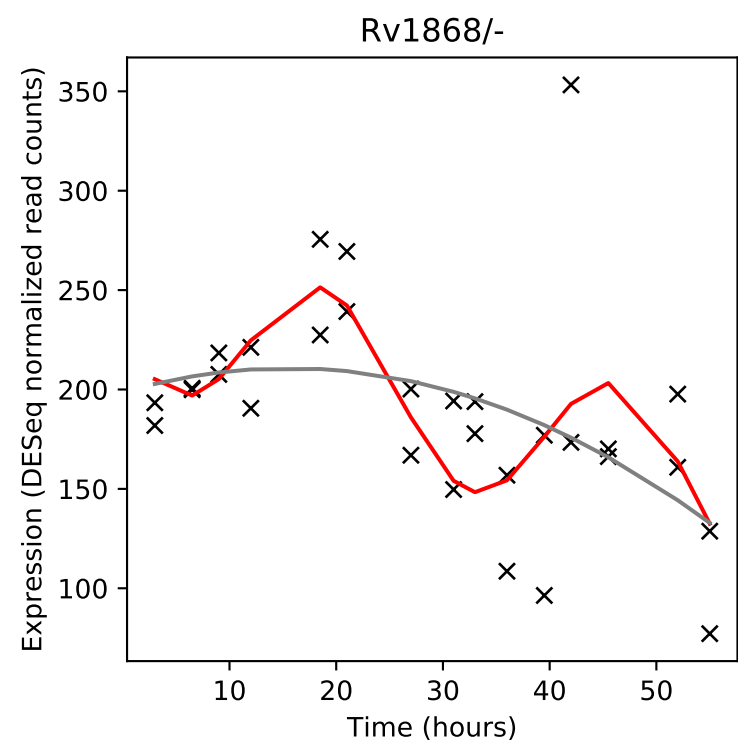
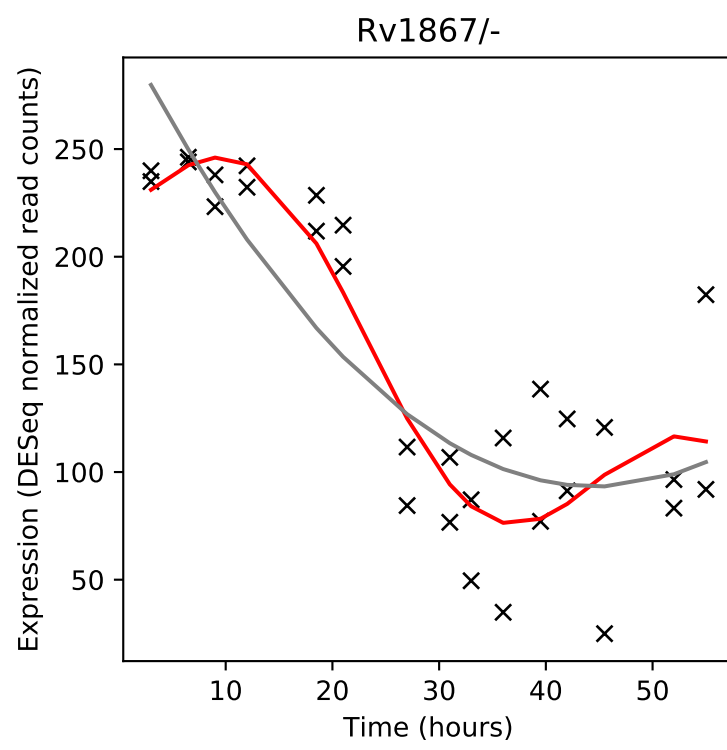
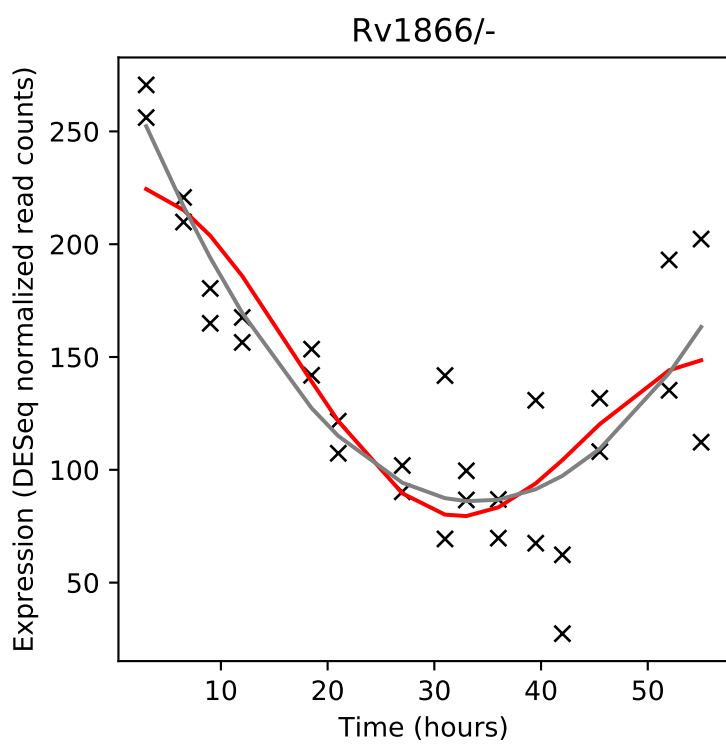
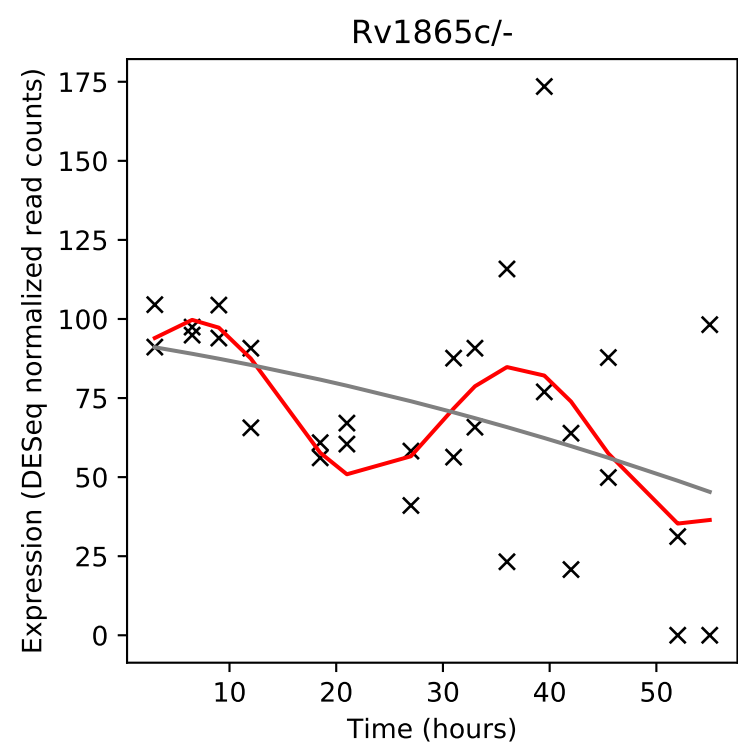
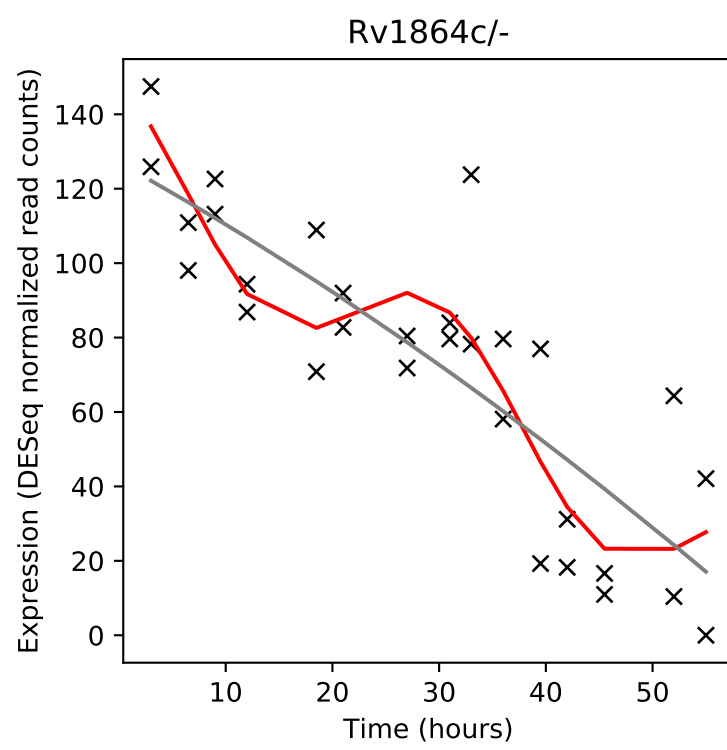
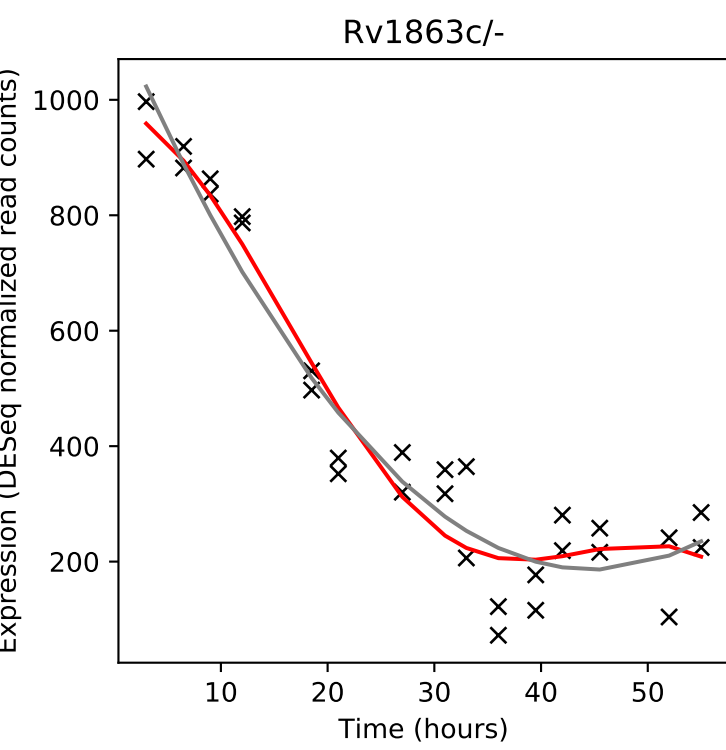
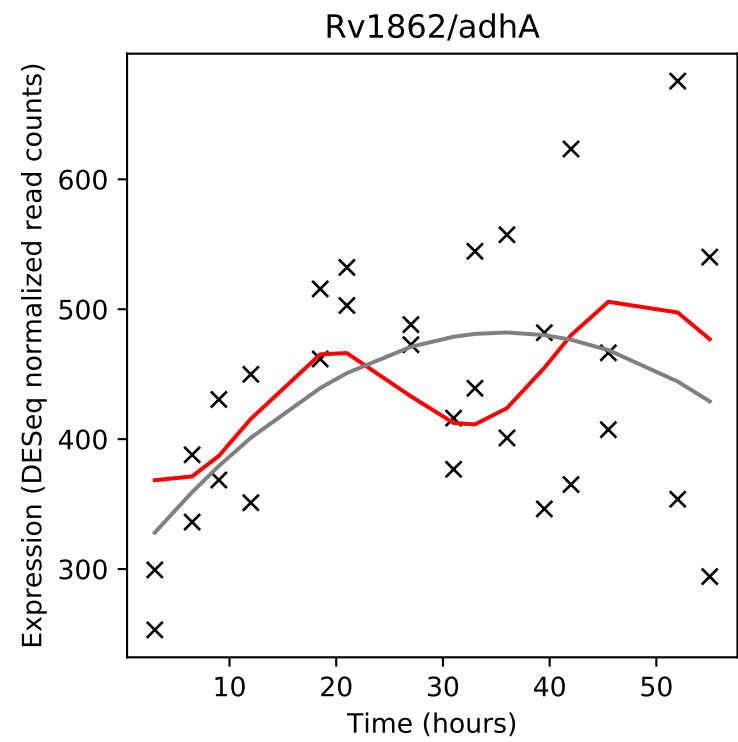
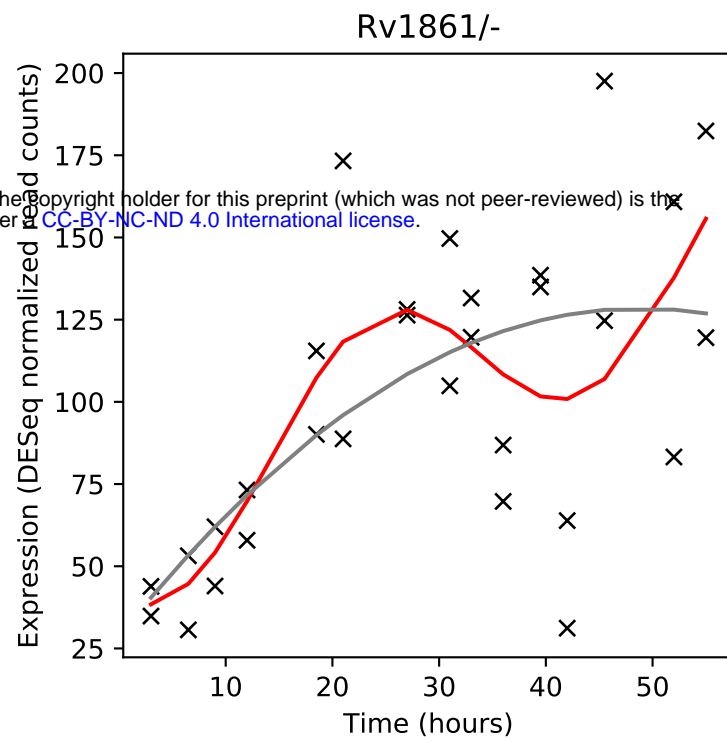
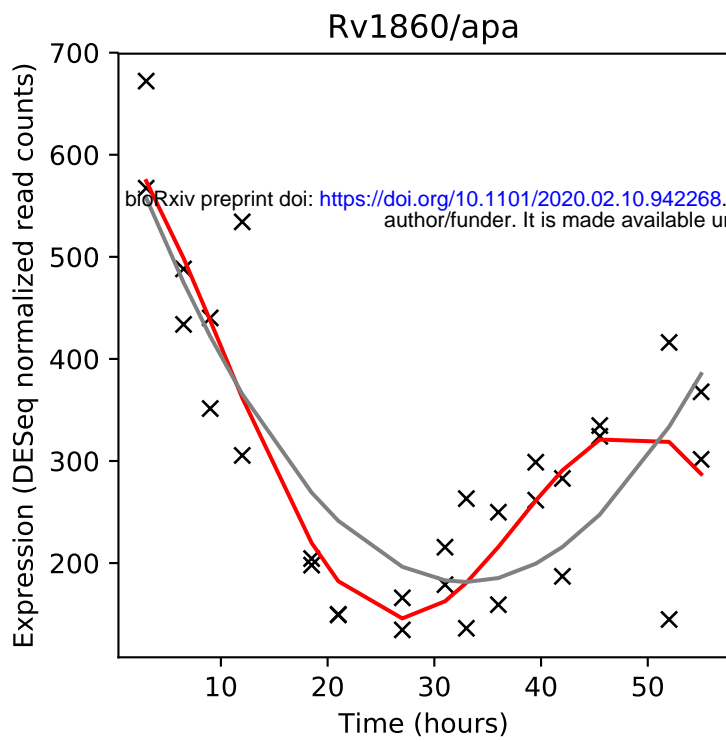


Rv1858/modB

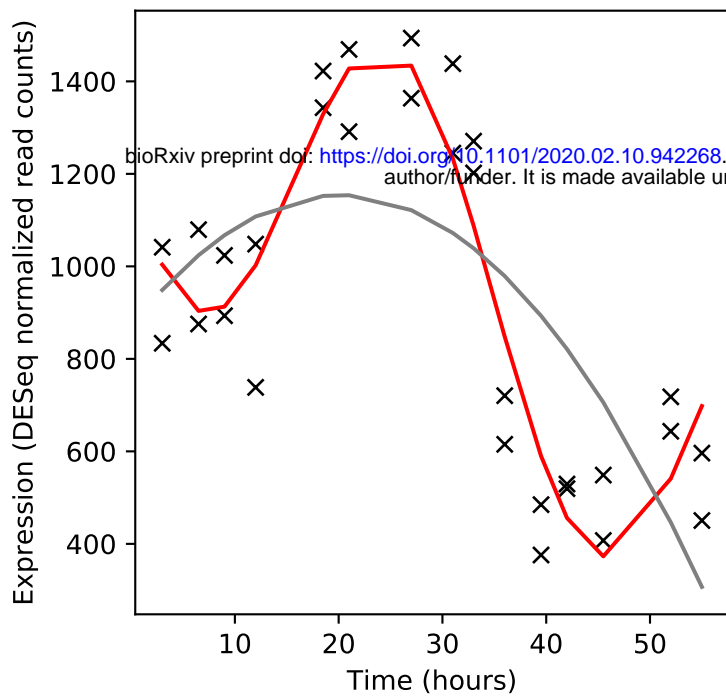


Rv1859/modC

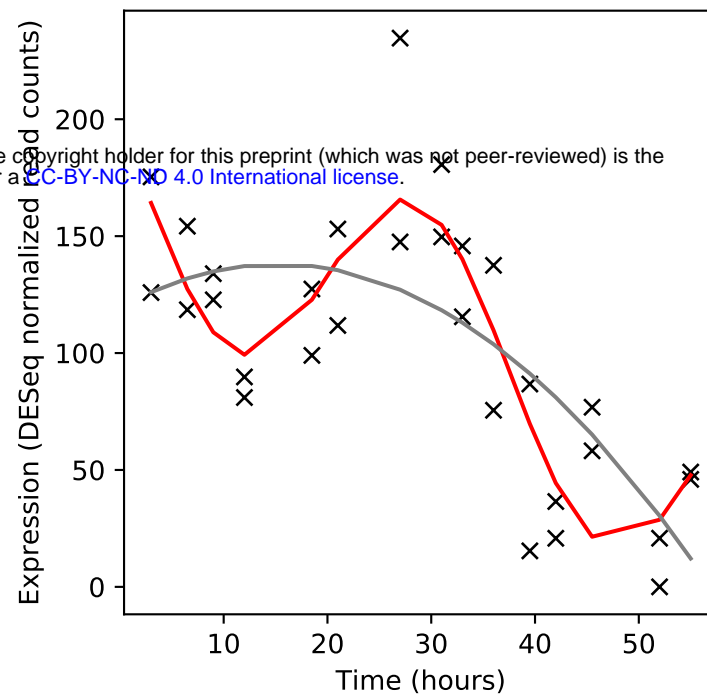




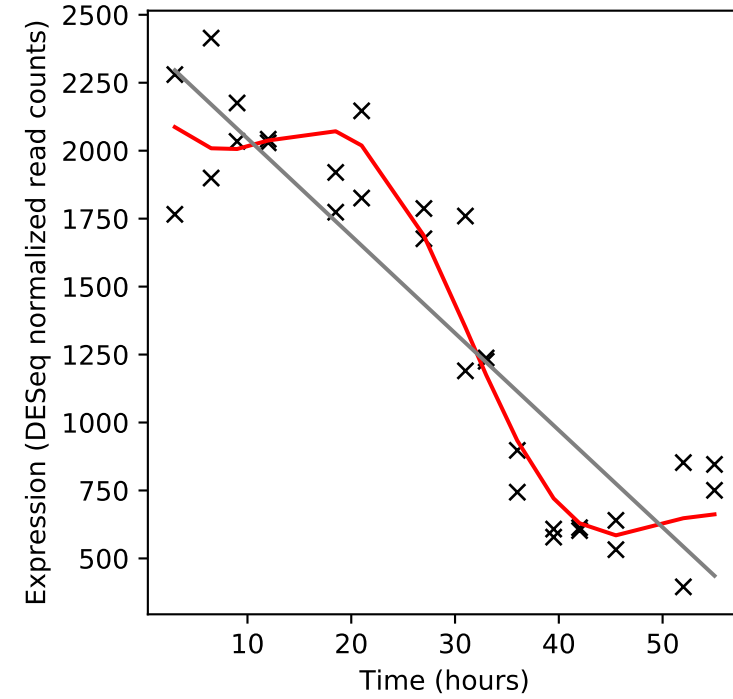
Rv1869c/-



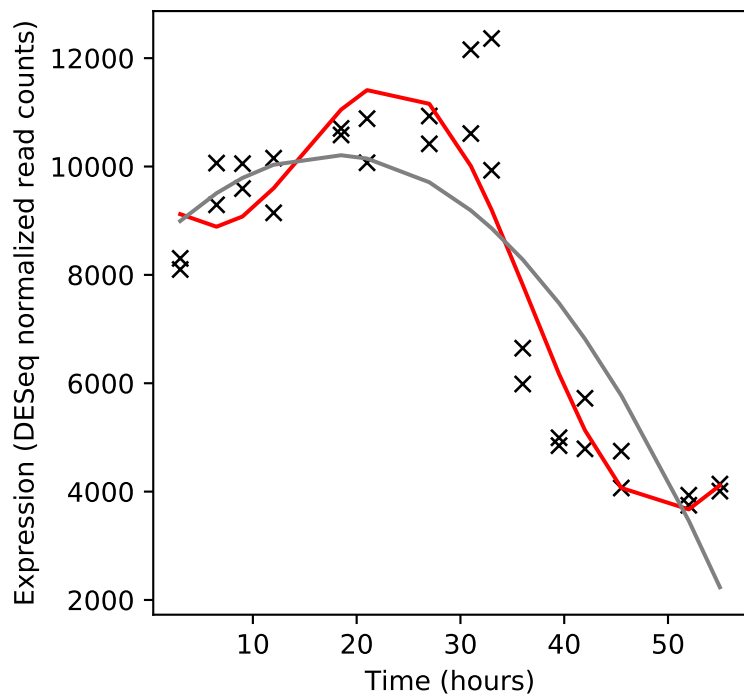
Rv1870c/-



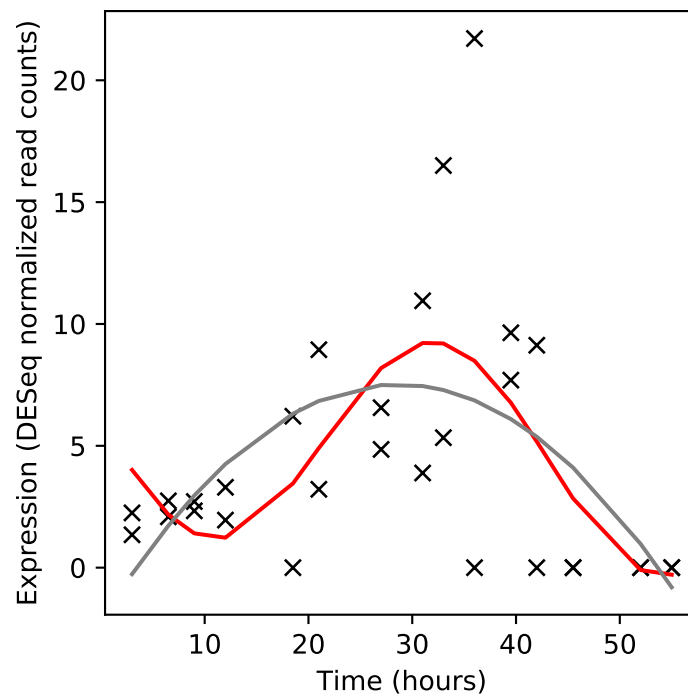
Rv1871c/-



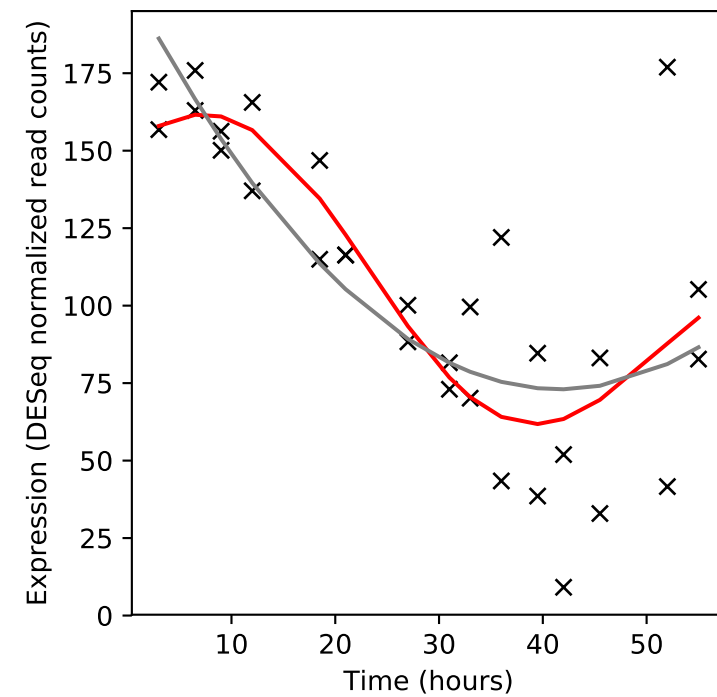
Rv1872c/lldD2



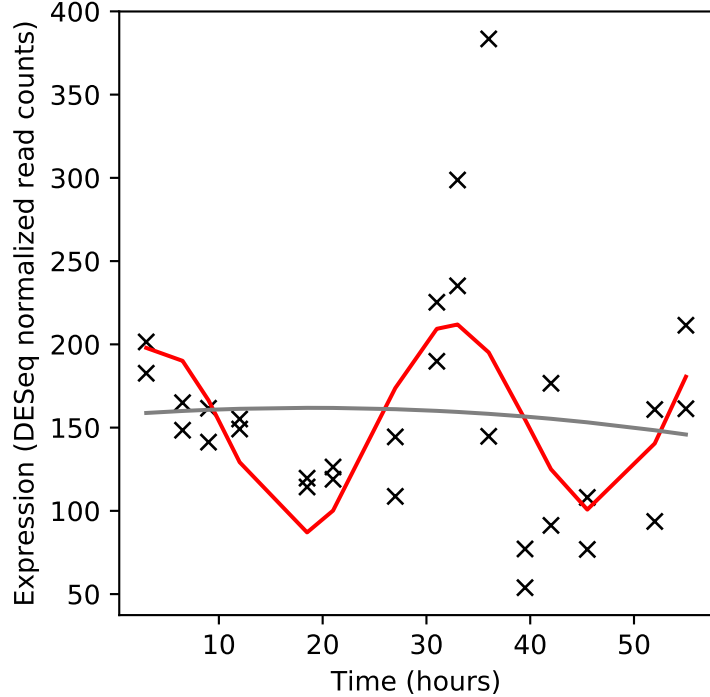
Rv1873/-



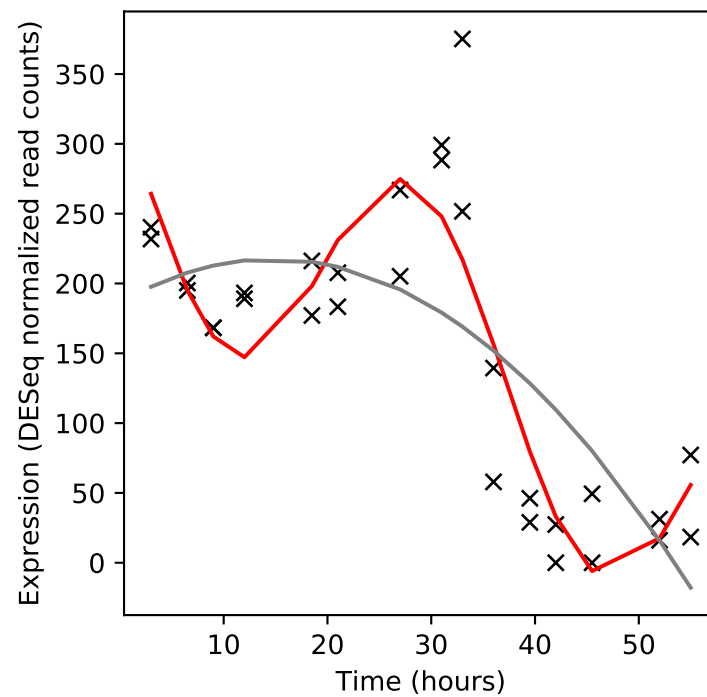
Rv1874/-



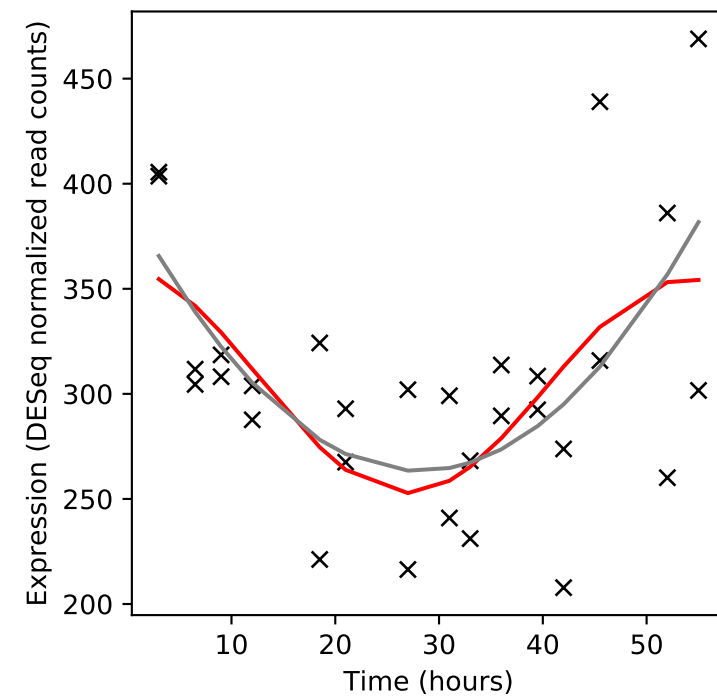
Rv1875/-



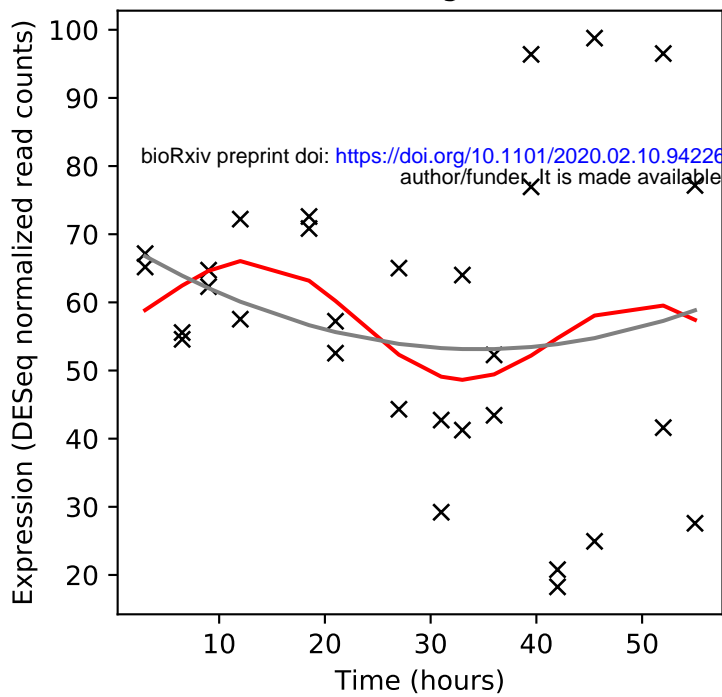
Rv1876/bfrA



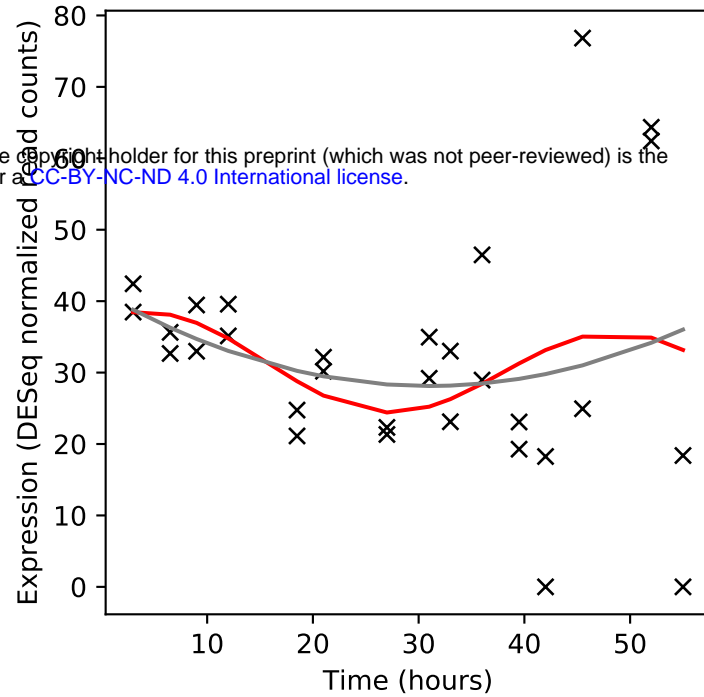
Rv1877/-



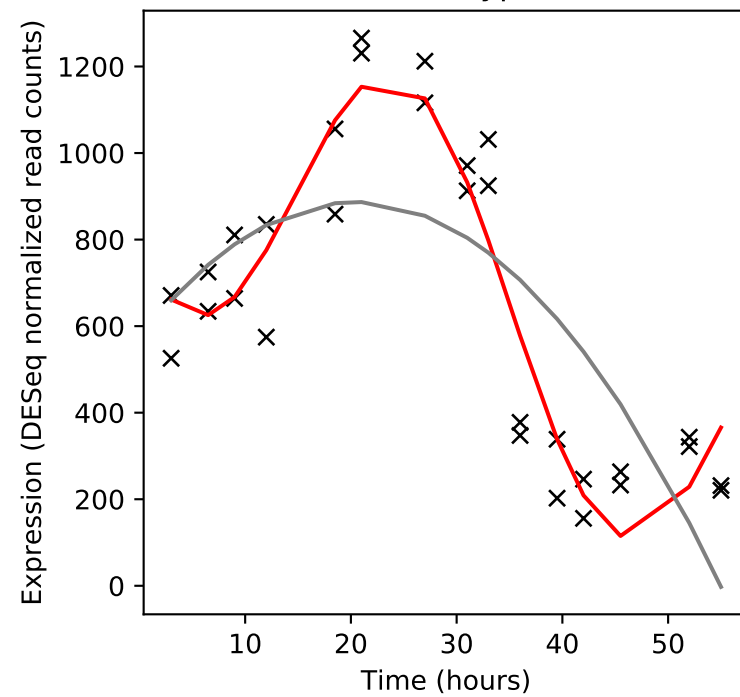
Rv1878/glnA3



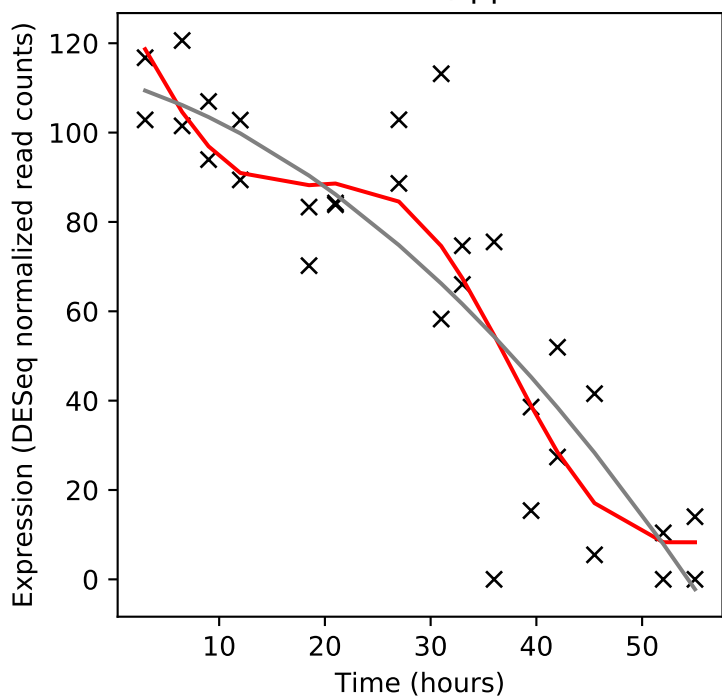
Rv1879/-



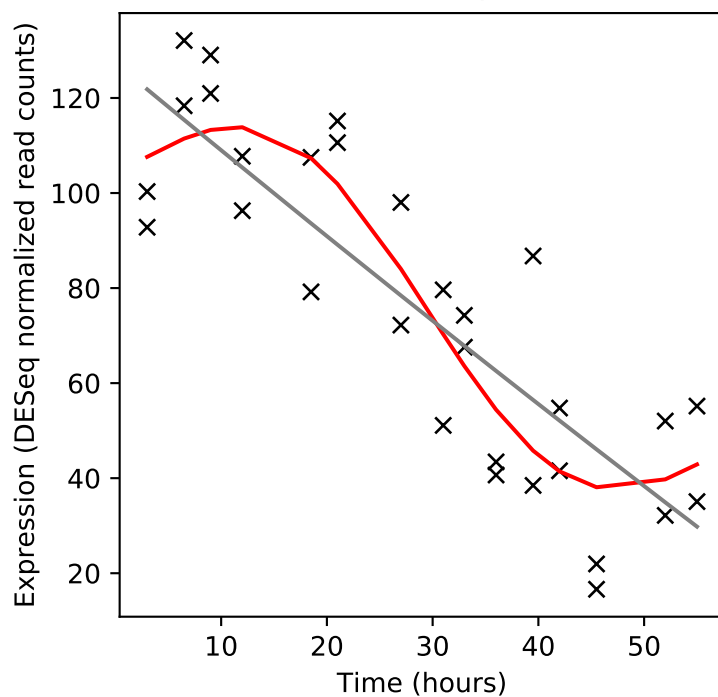
Rv1880c/cyp140



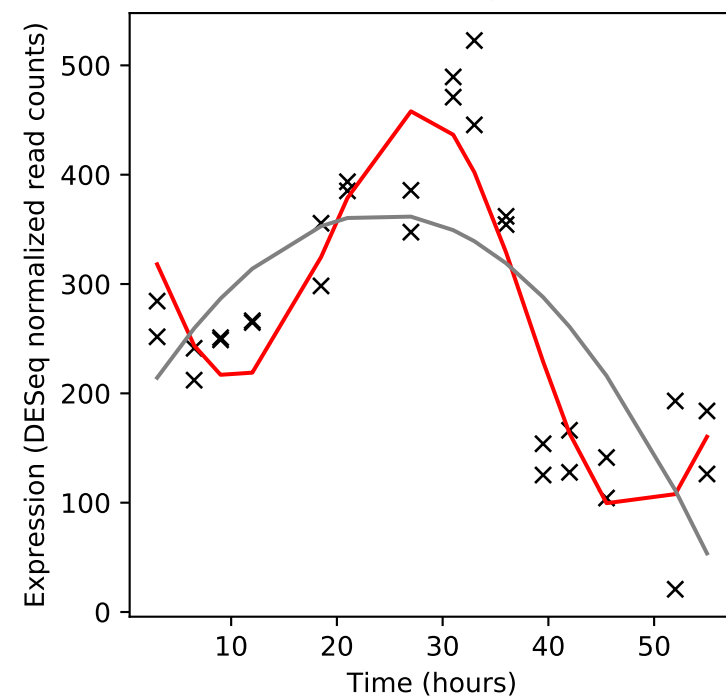
Rv1881c/lppE



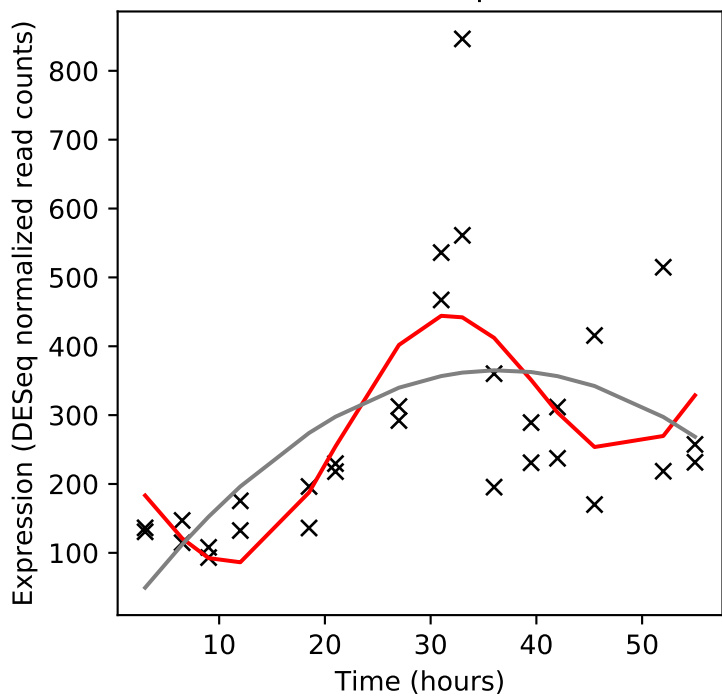
Rv1882c/-



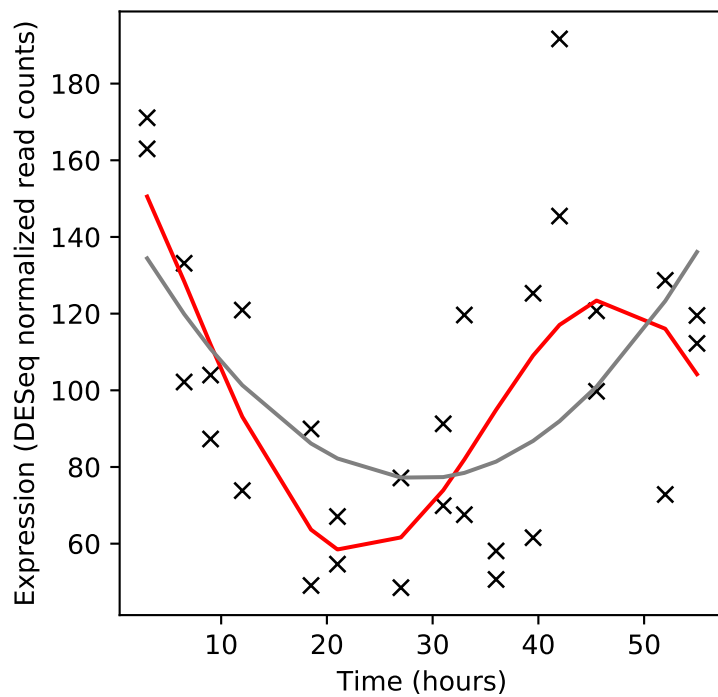
Rv1883c/-



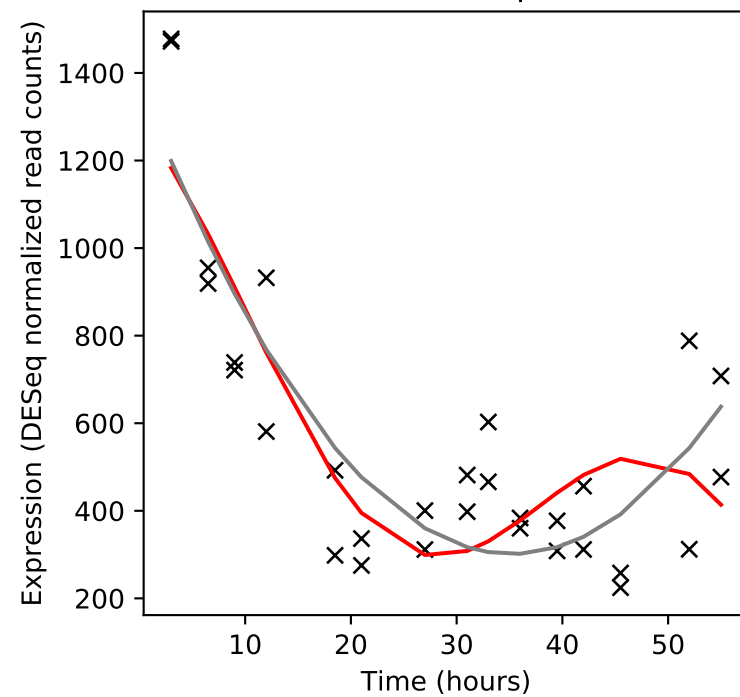
Rv1884c/rpFC



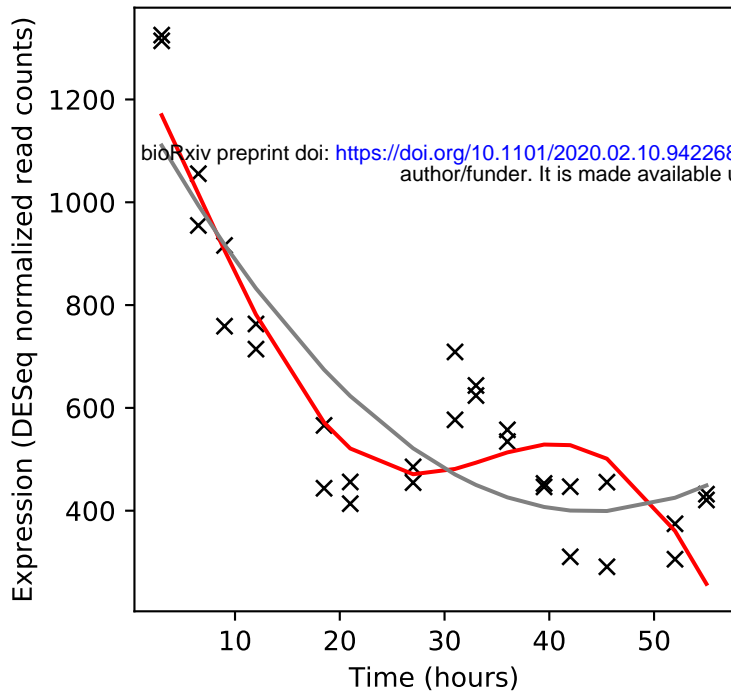
Rv1885c/-



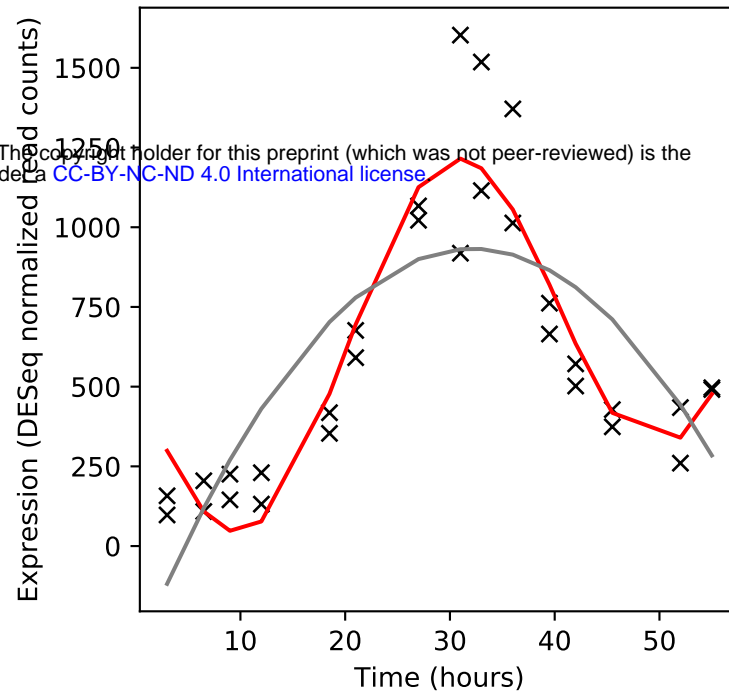
Rv1886c/fbpB



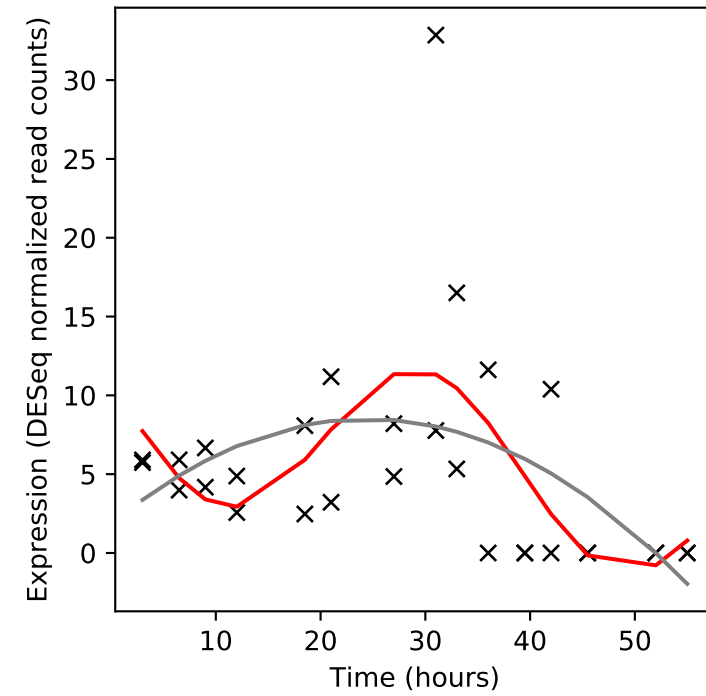
Rv1887/-



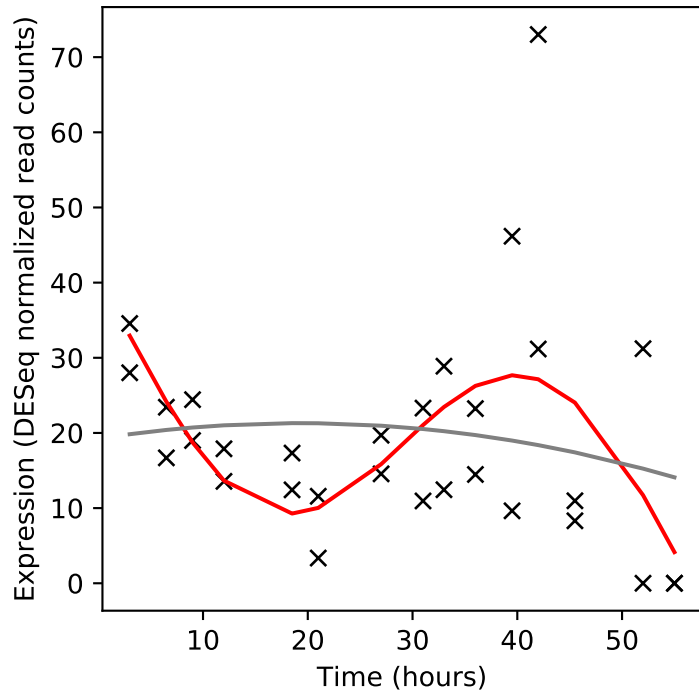
Rv1888c/-



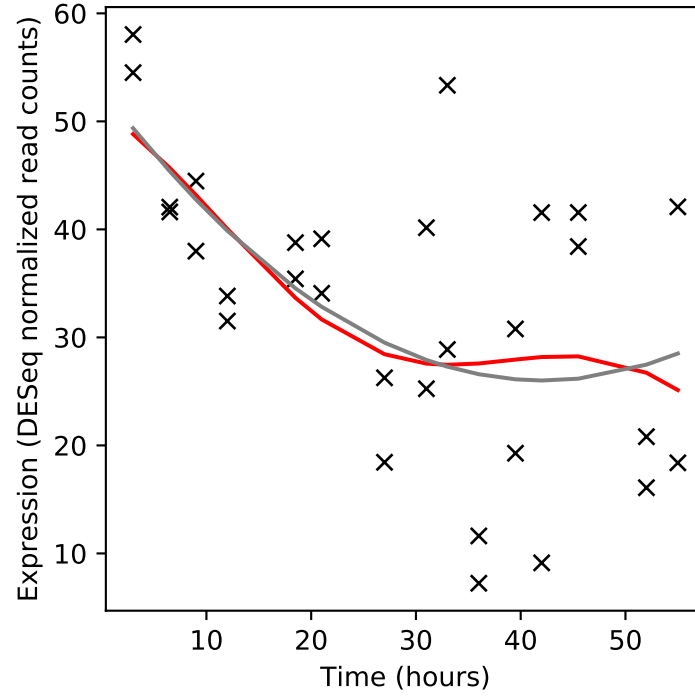
Rv1888A/-



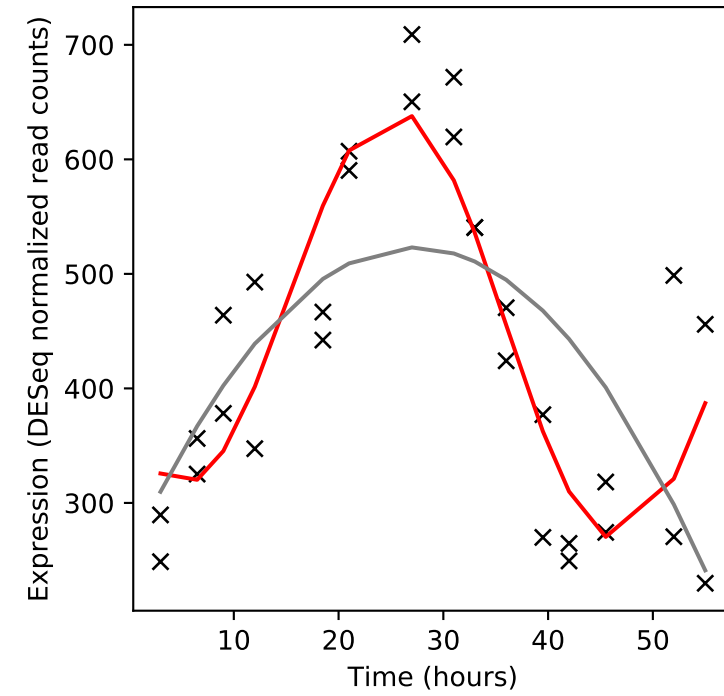
Rv1889c/-



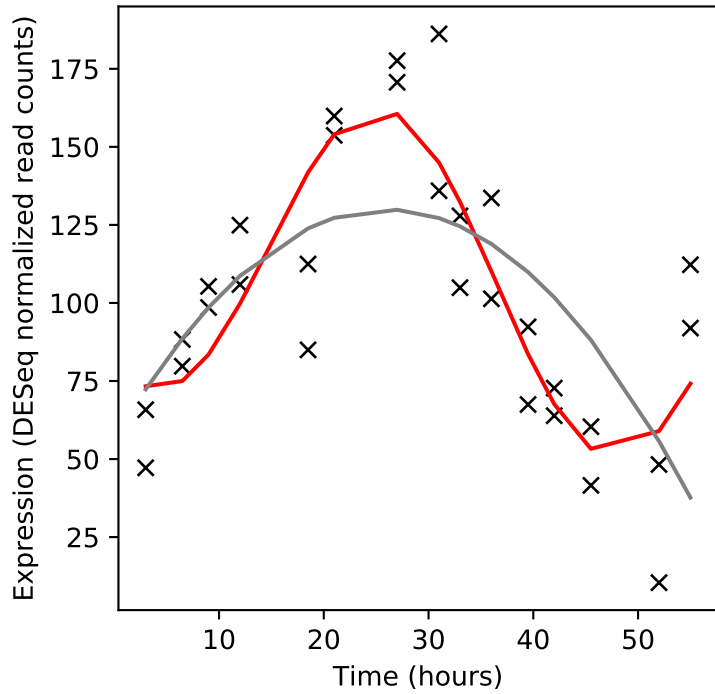
Rv1890c/-



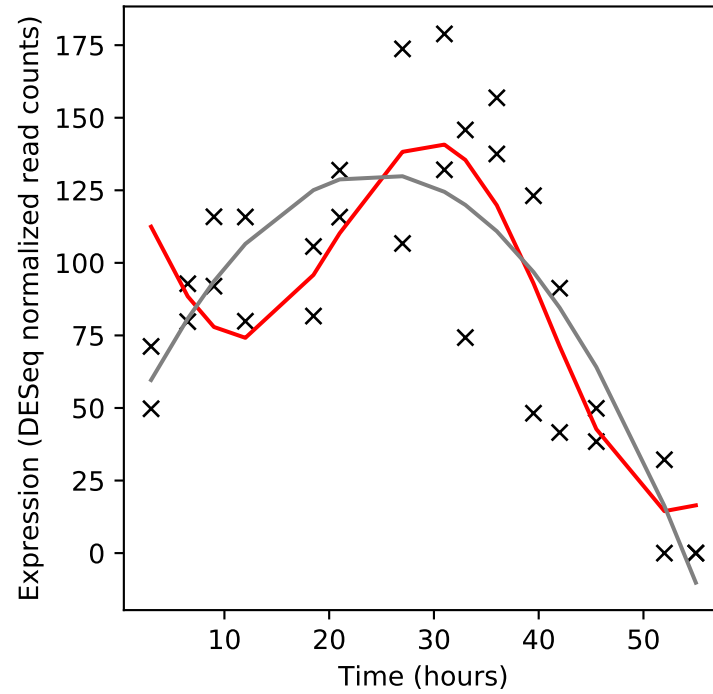
Rv1891/-



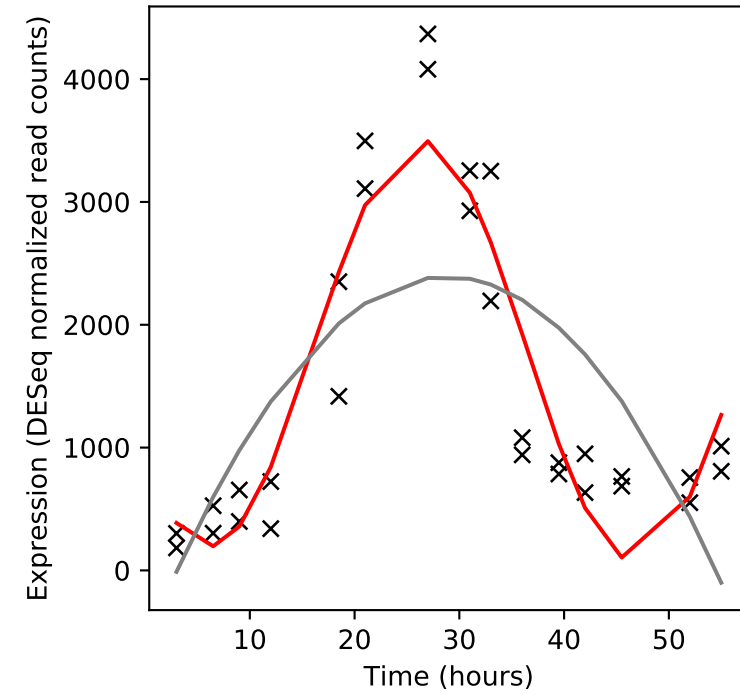
Rv1892/-



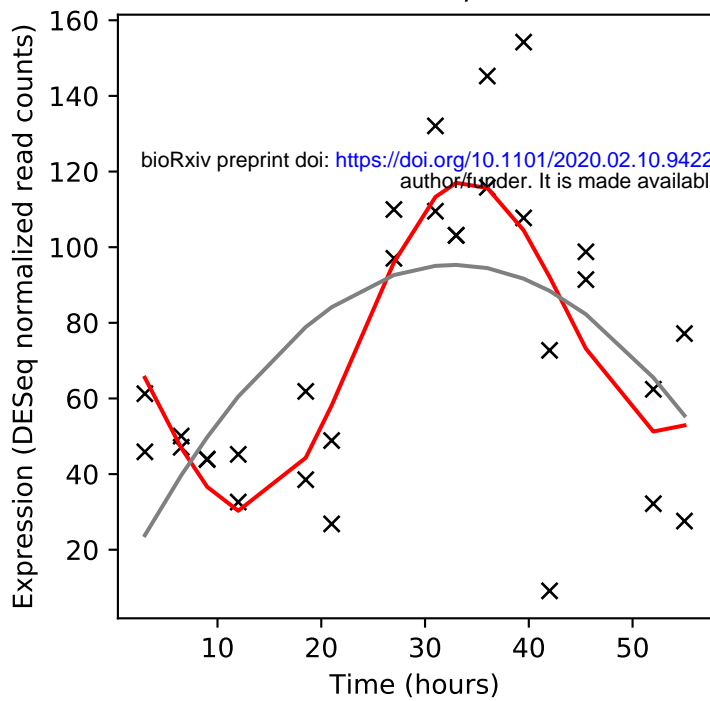
Rv1893/-



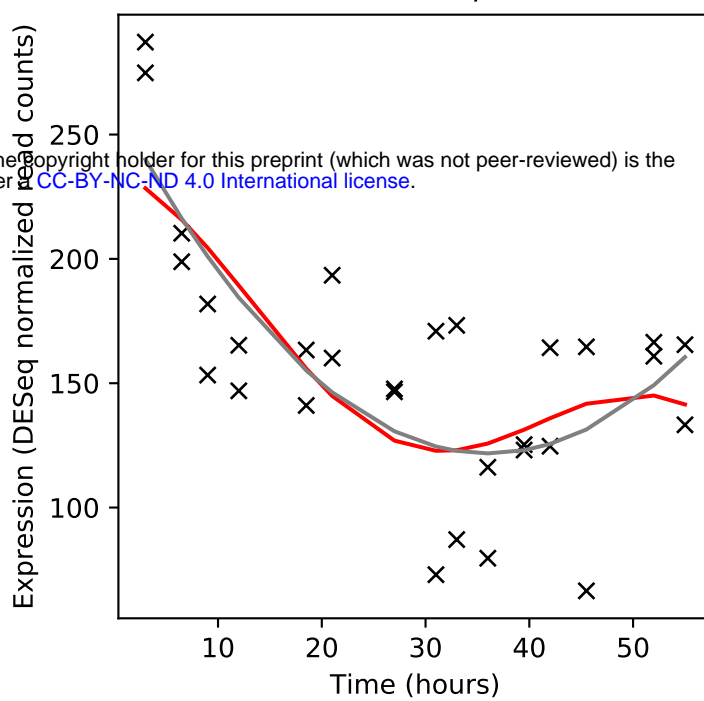
Rv1894c/-



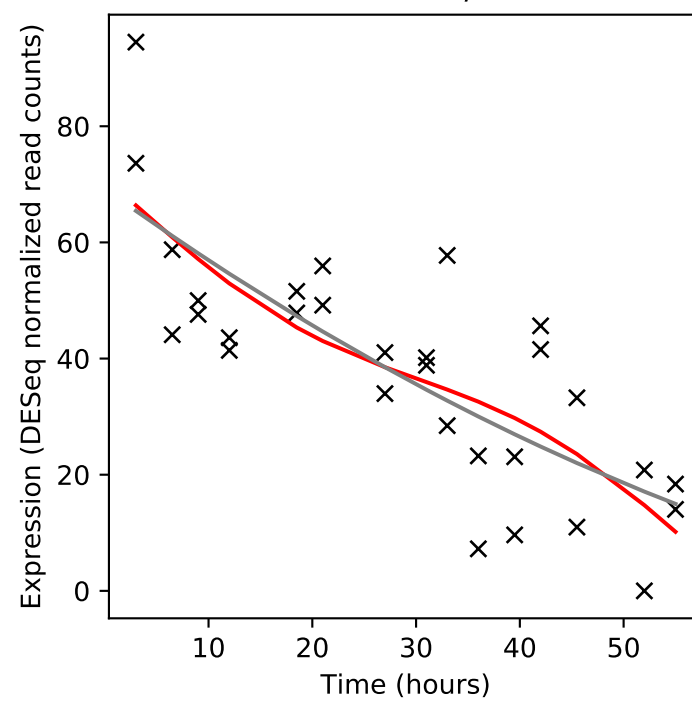
Rv1895/-



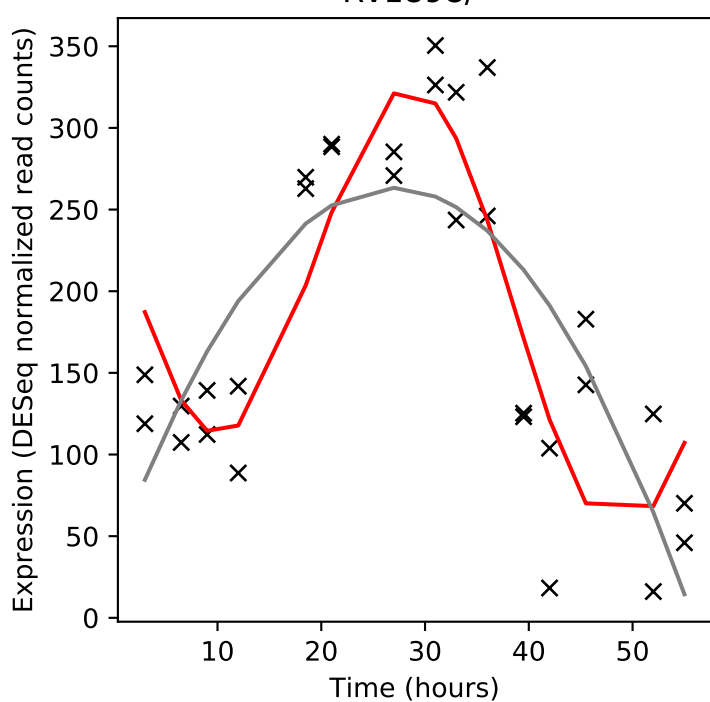
Rv1896c/-



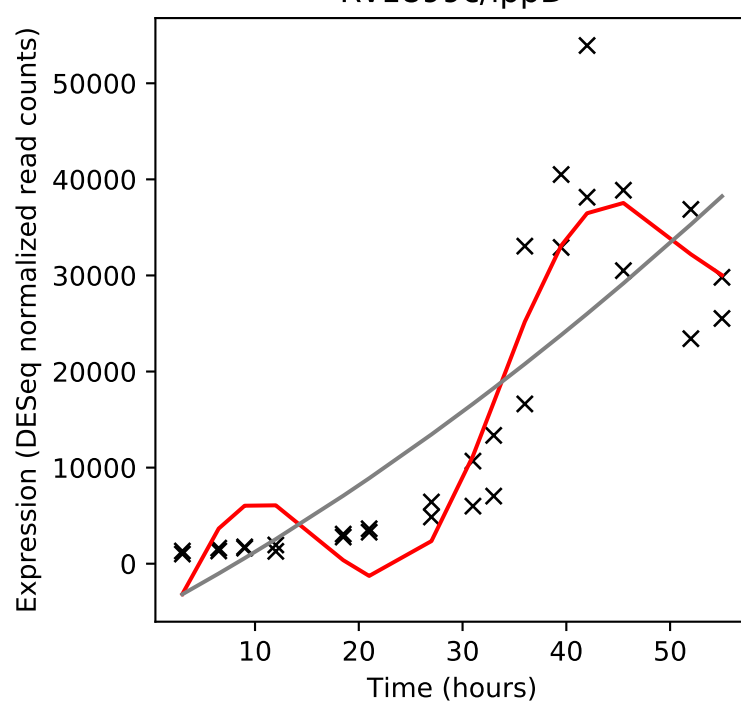
Rv1897c/-



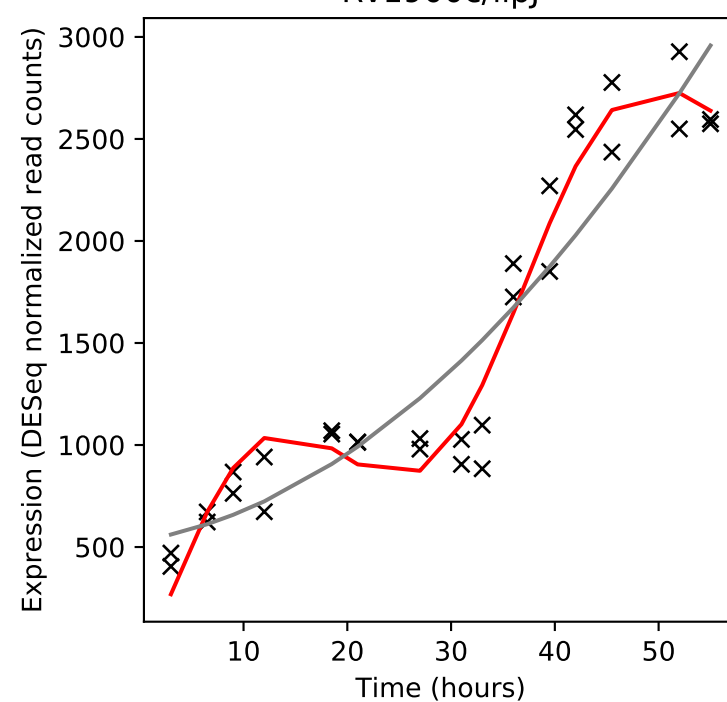
Rv1898/-



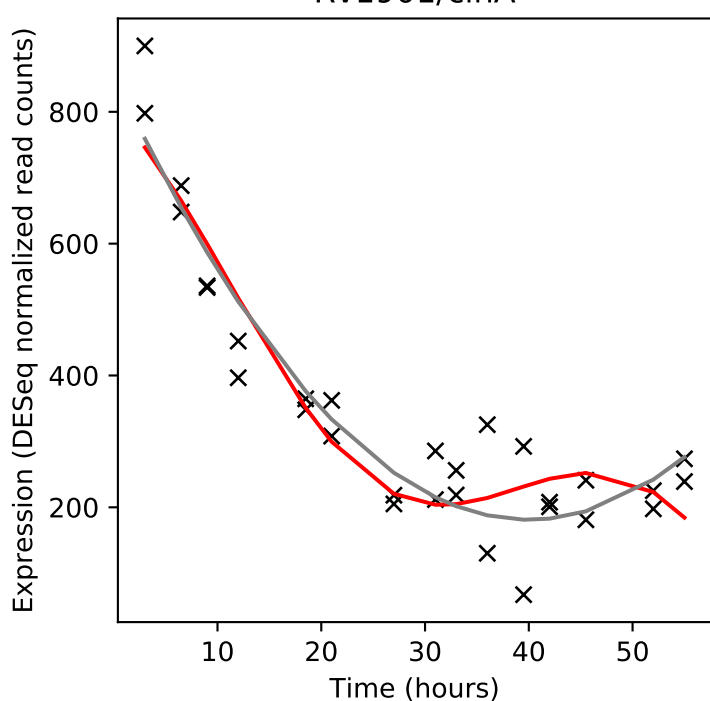
Rv1899c/lppD



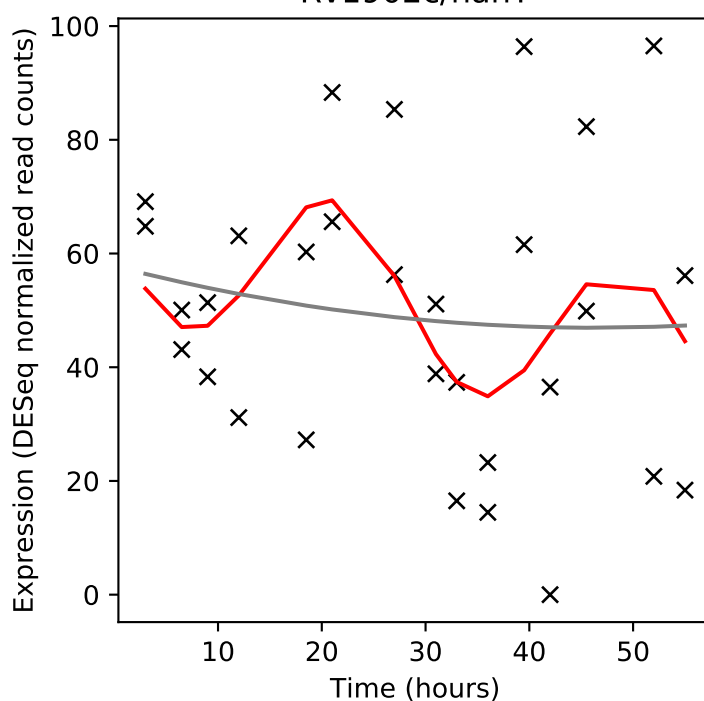
Rv1900c/lipJ



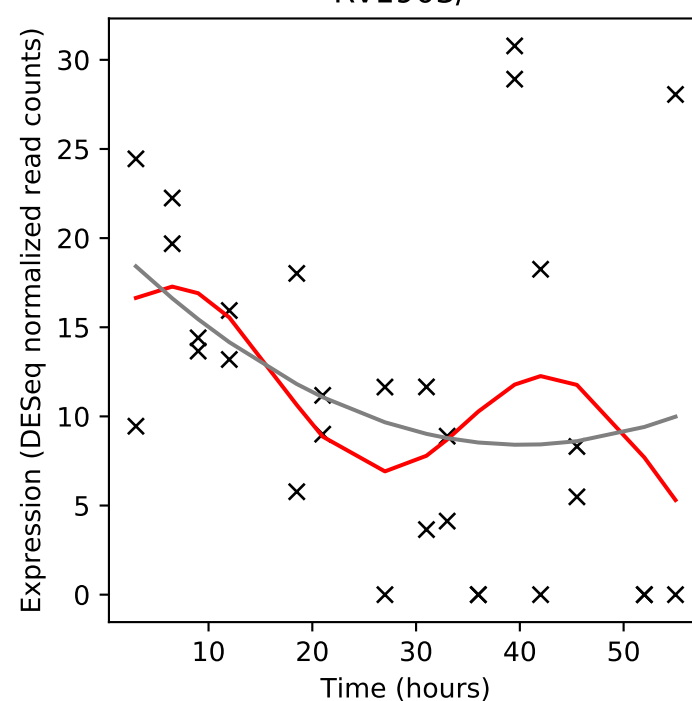
Rv1901/cinA



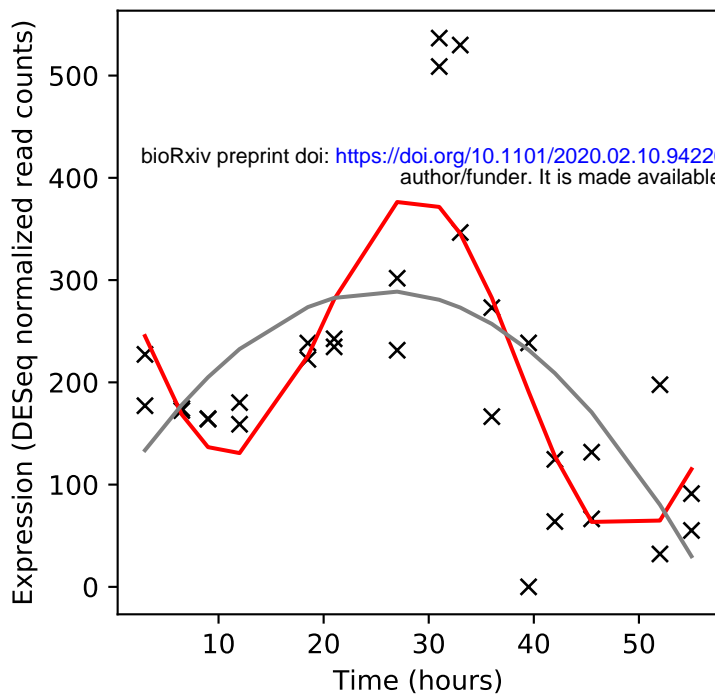
Rv1902c/nanT



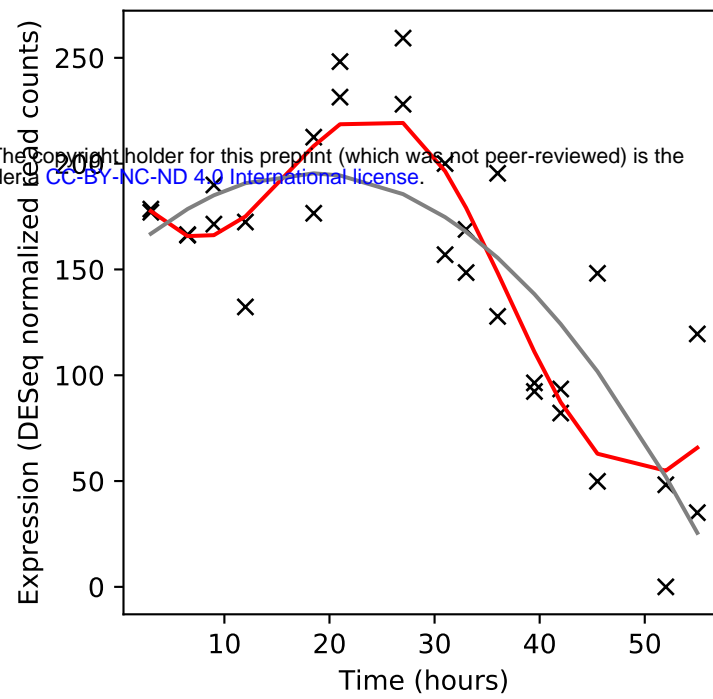
Rv1903/-



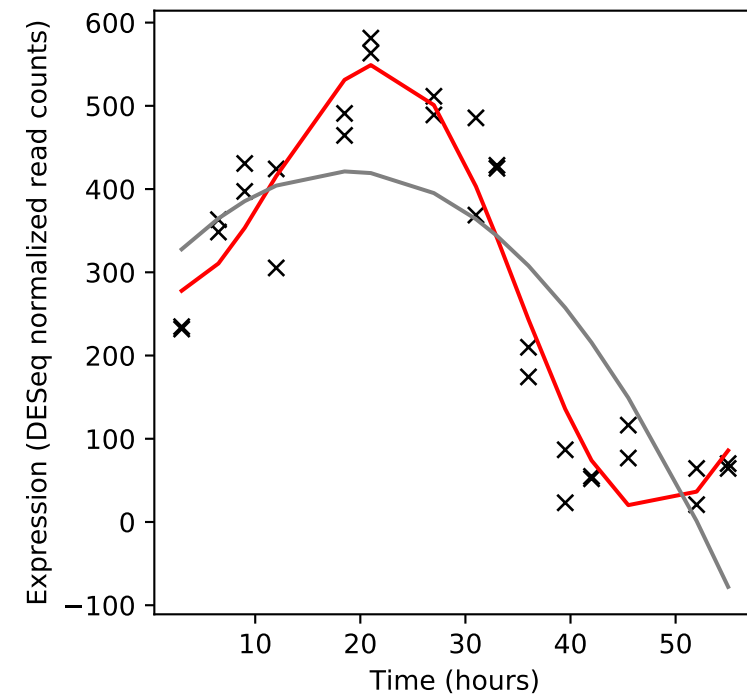
Rv1904/-



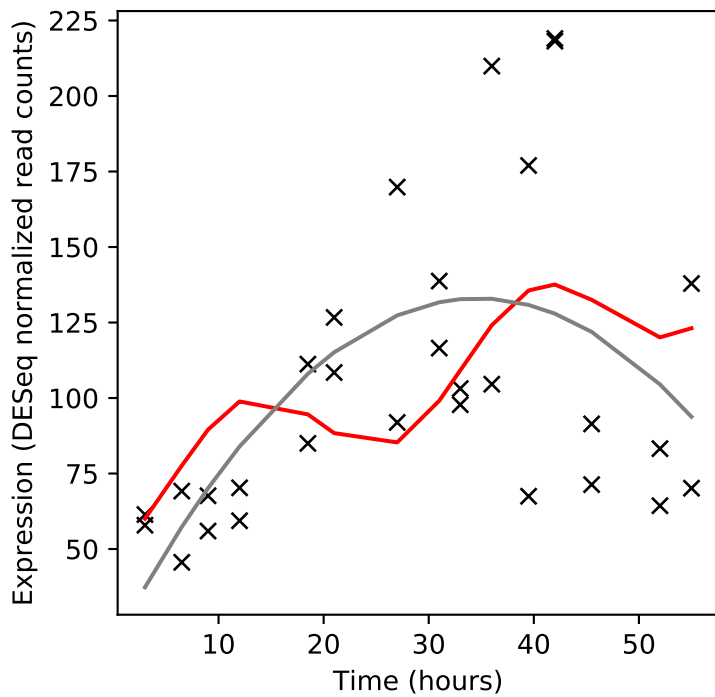
Rv1905c/aao



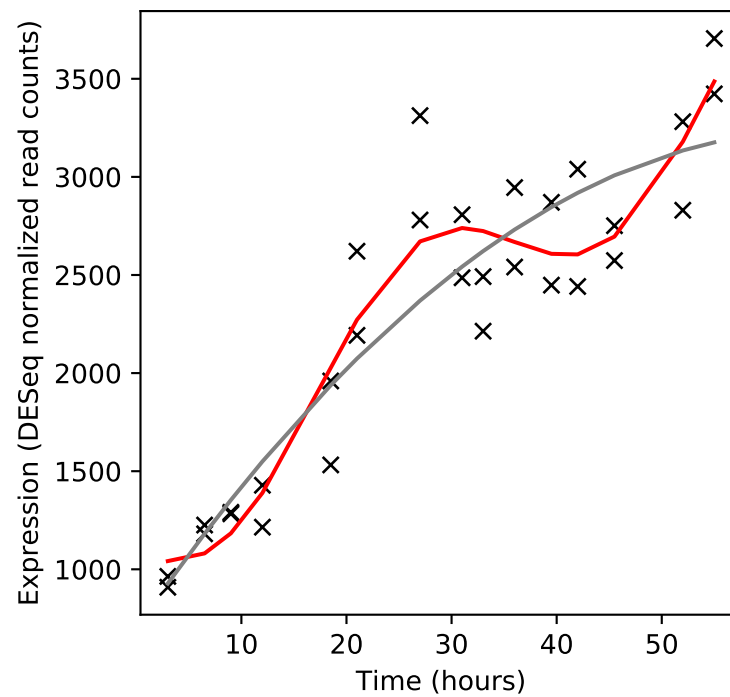
Rv1906c/-



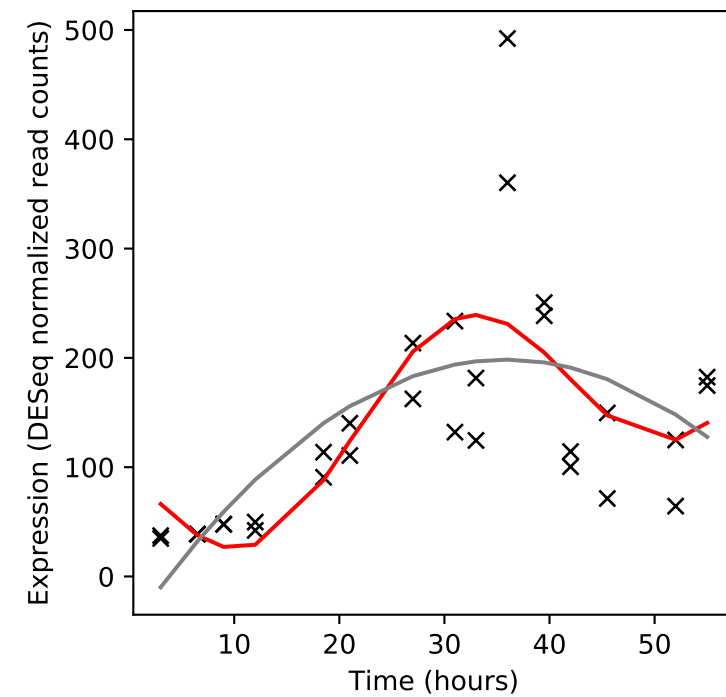
Rv1907c/-



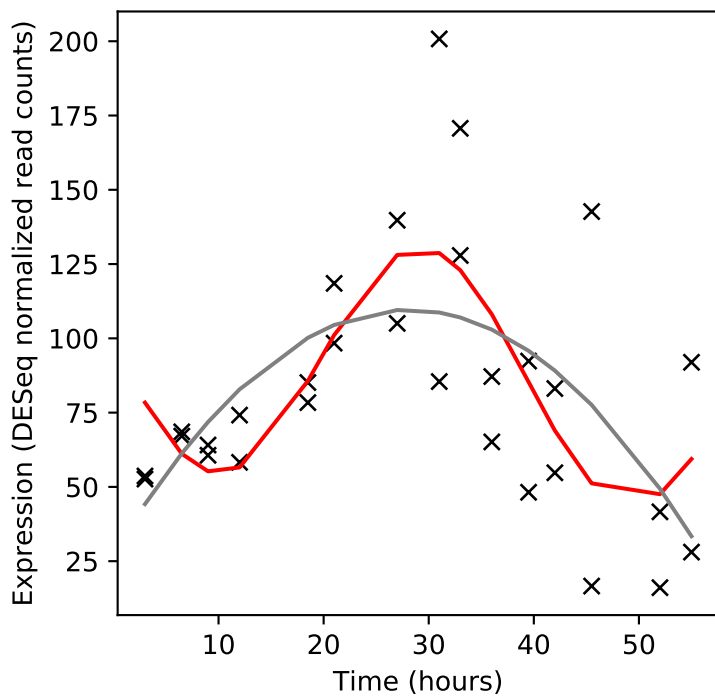
Rv1908c/katG



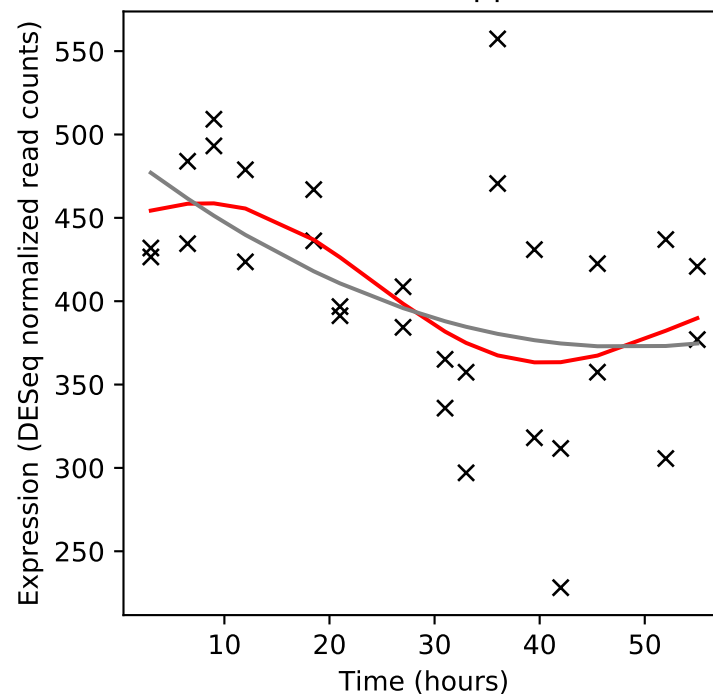
Rv1909c/furA



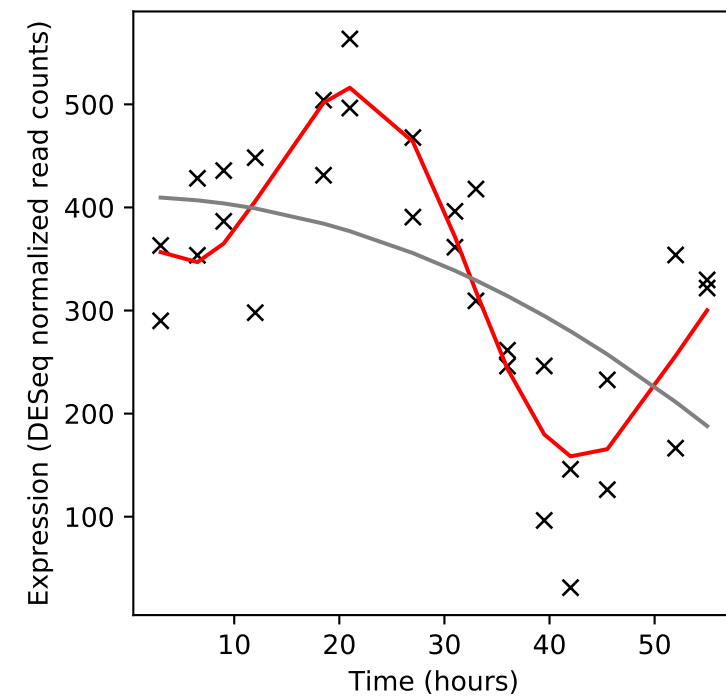
Rv1910c/-



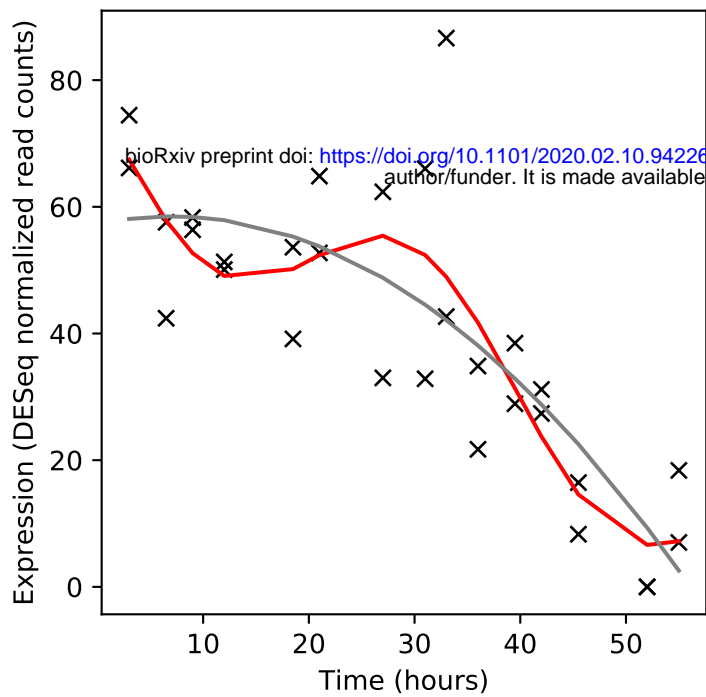
Rv1911c/lppC



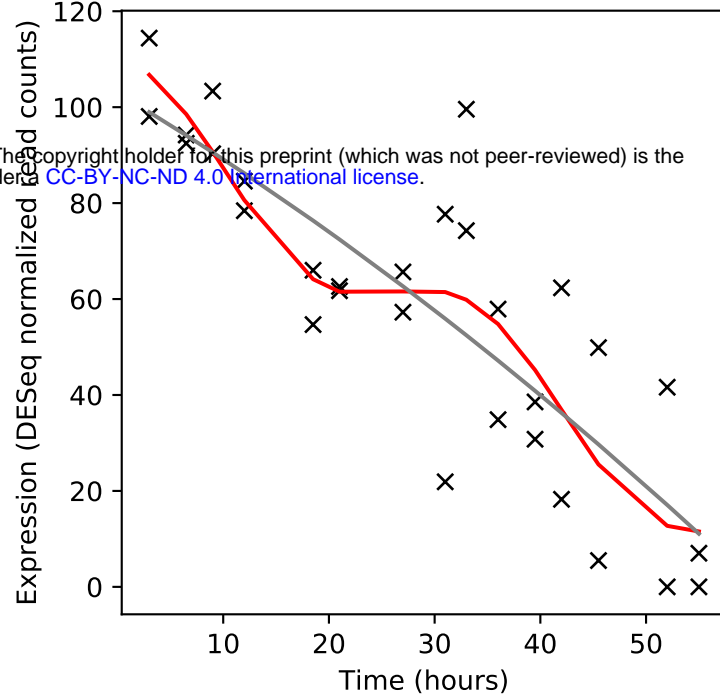
Rv1912c/fadB5



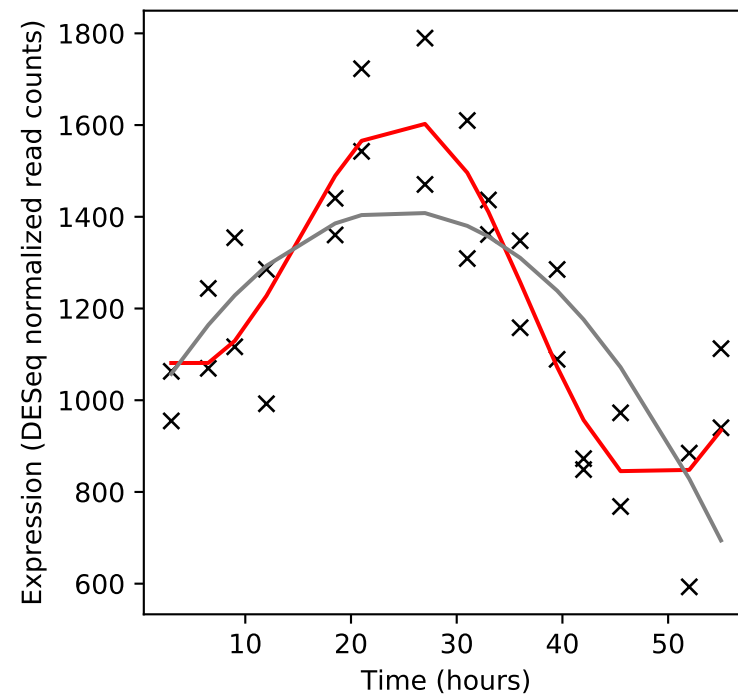
Rv1913/-



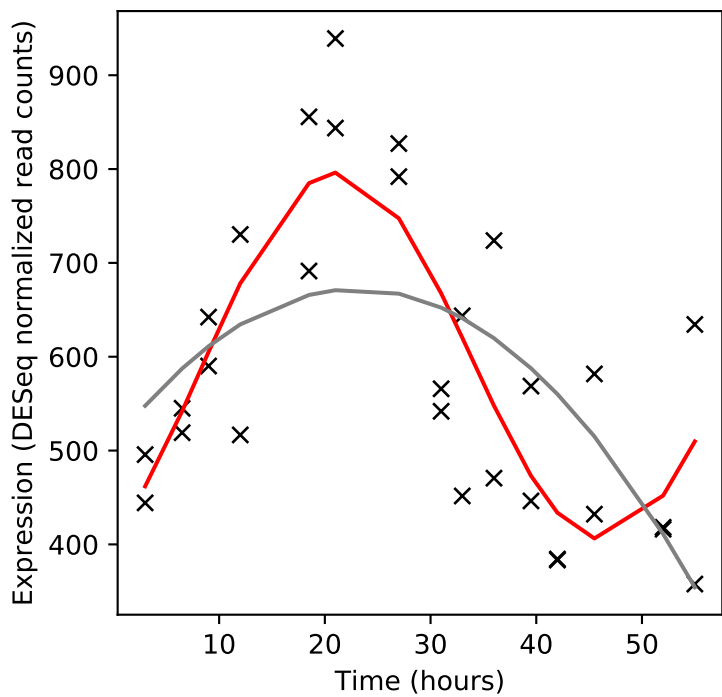
Rv1914c/-



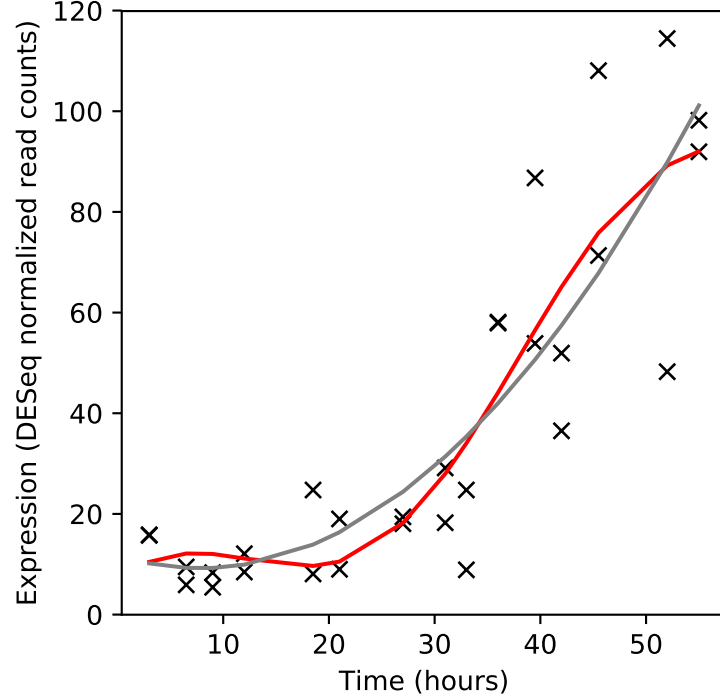
Rv1915/aceAa



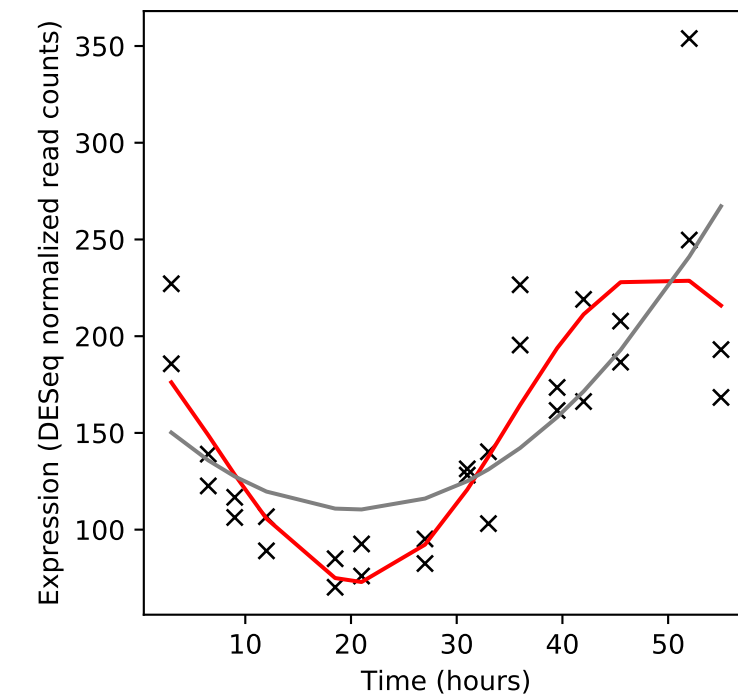
Rv1916/aceAb



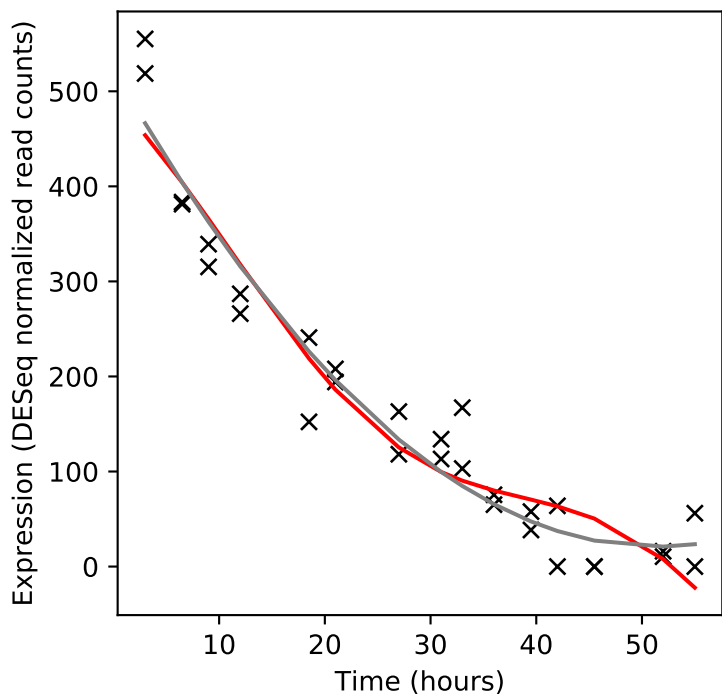
Rv1917c/PPE34



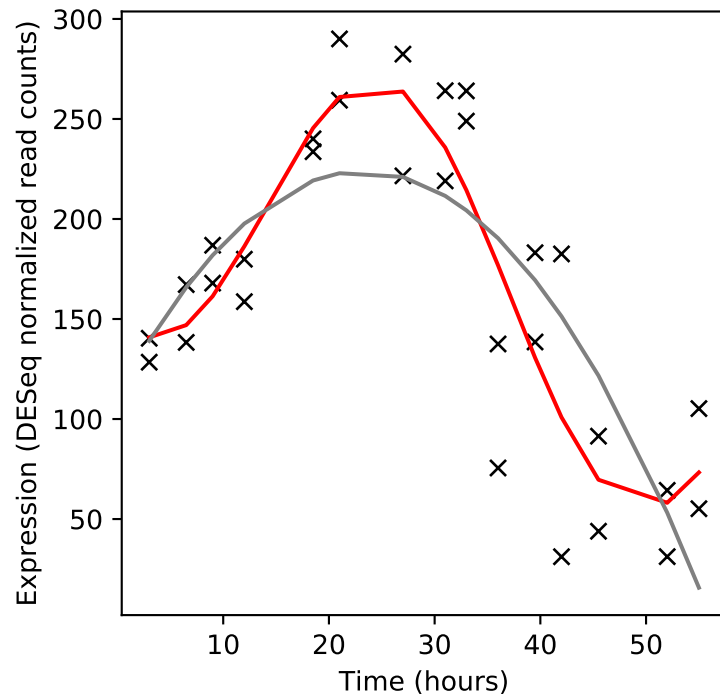
Rv1918c/PPE35



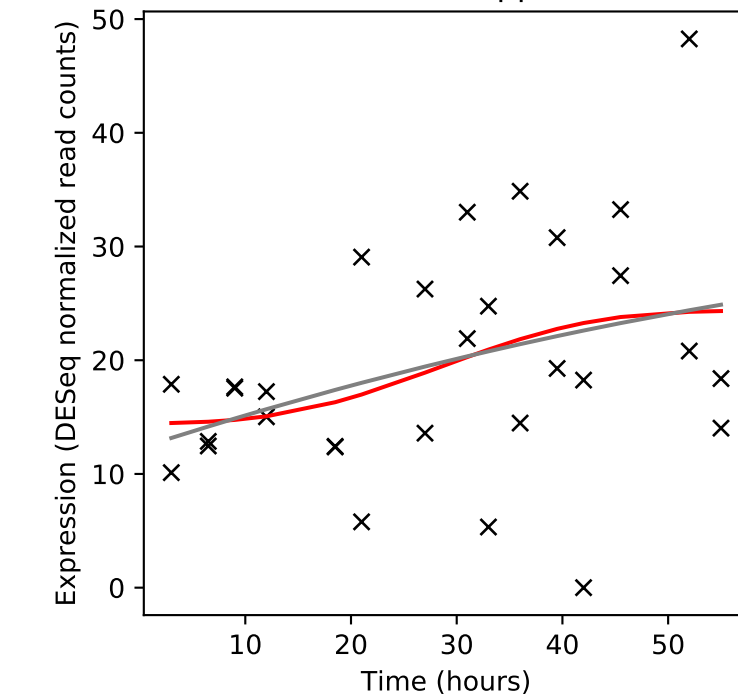
Rv1919c/-



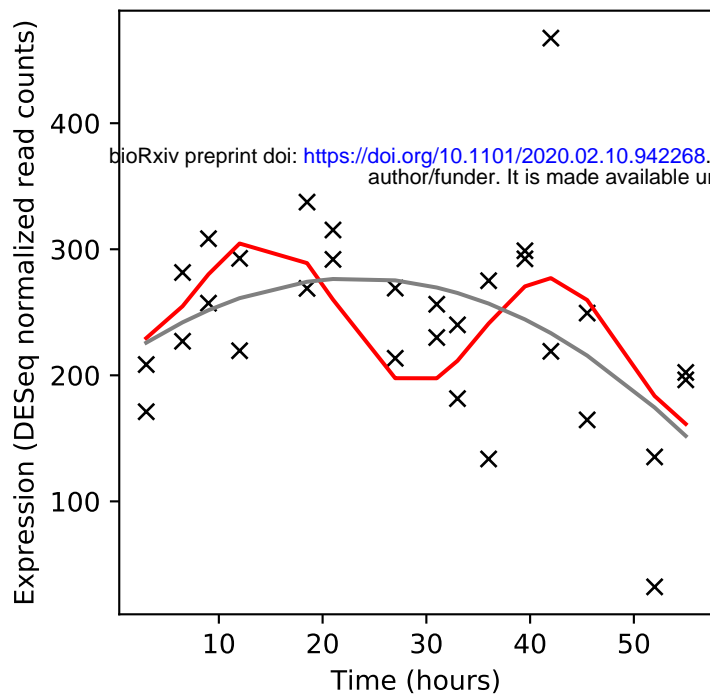
Rv1920/-



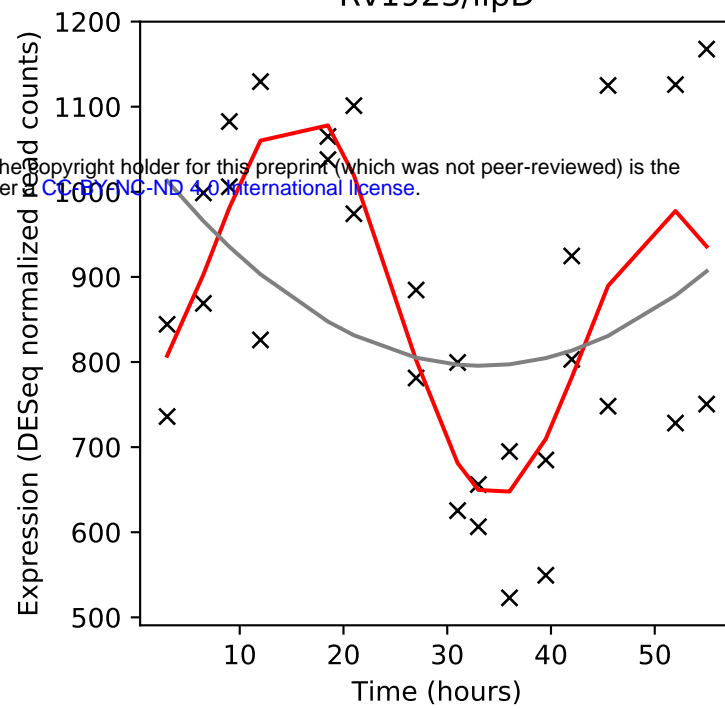
Rv1921c/lppF



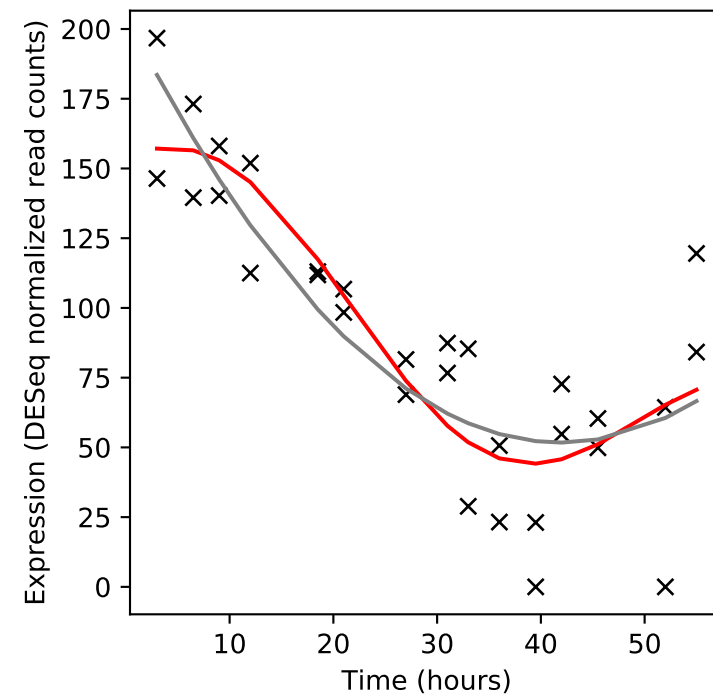
Rv1922/-



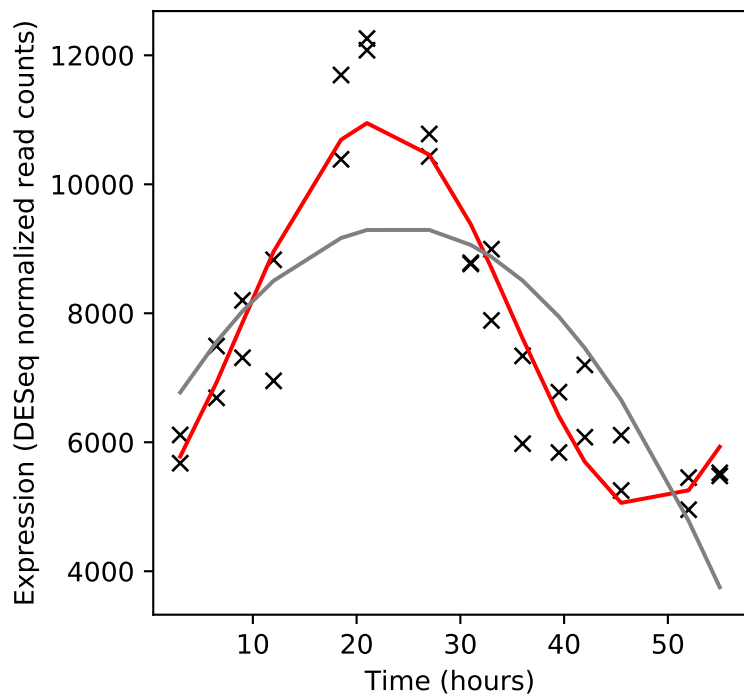
Rv1923/lipD



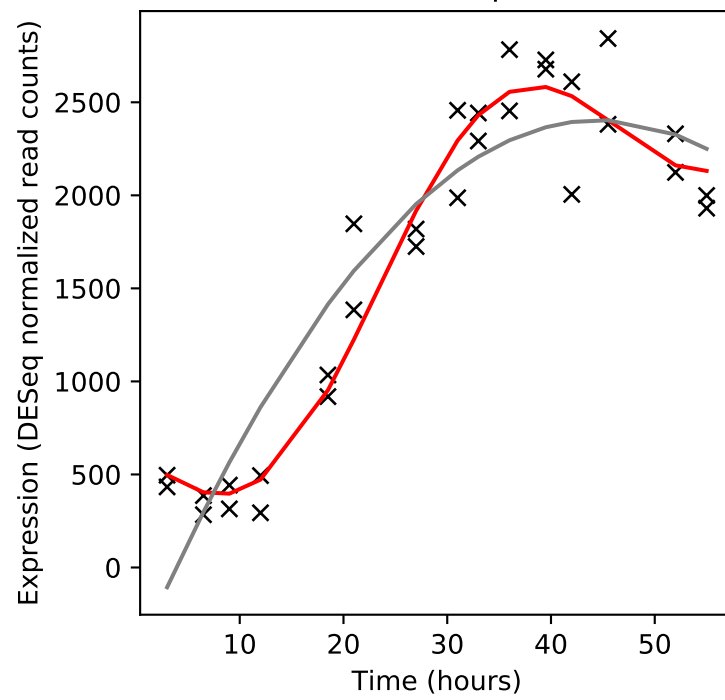
Rv1924c/-



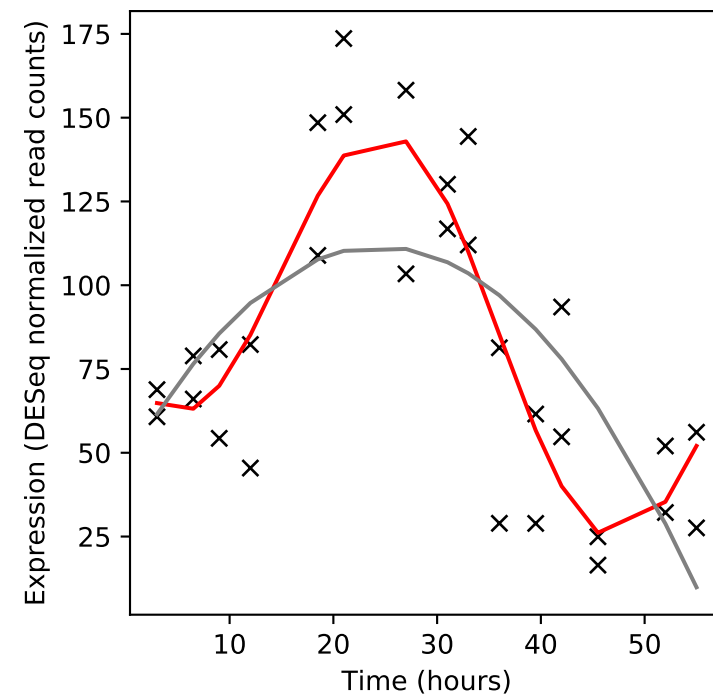
Rv1925/fadD31



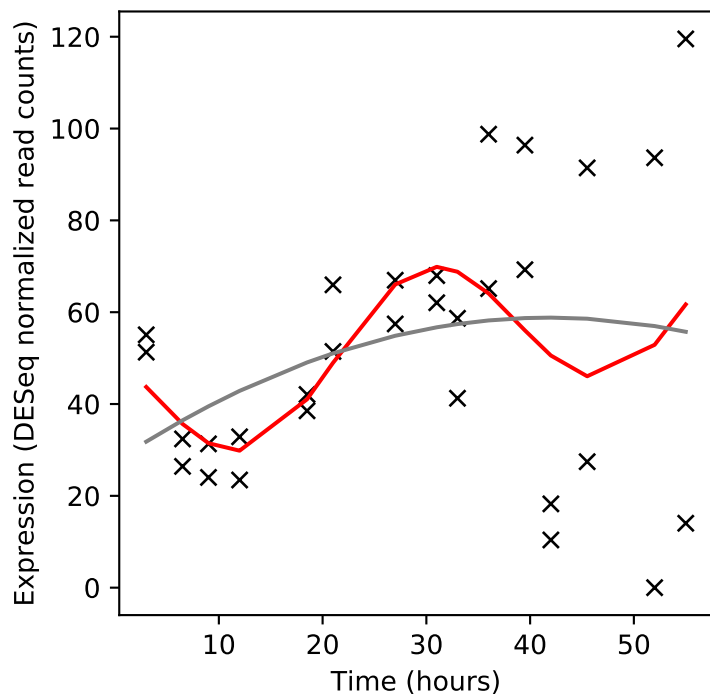
Rv1926c/mpt63



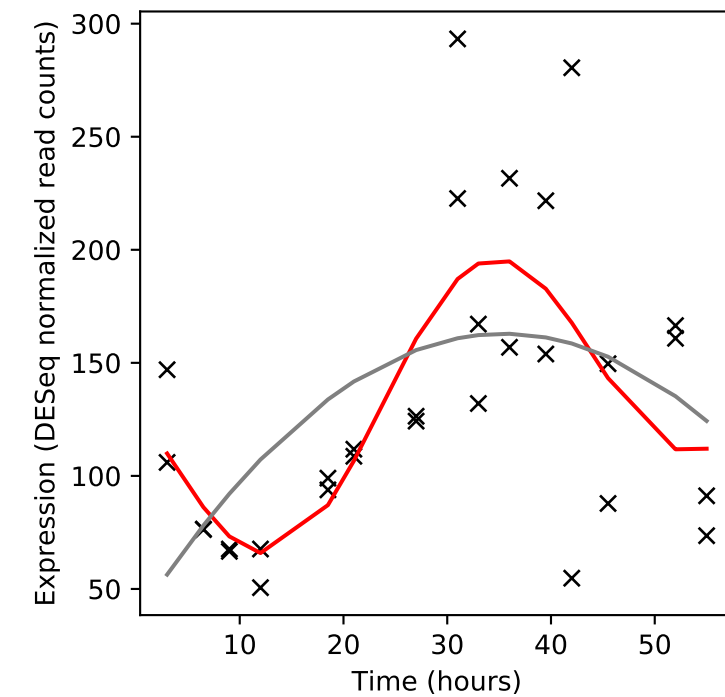
Rv1927/-



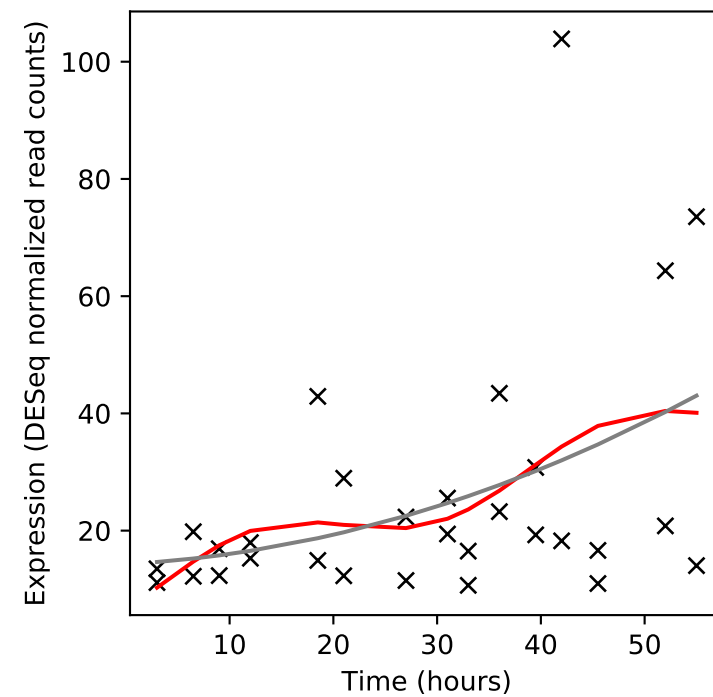
Rv1928c/-



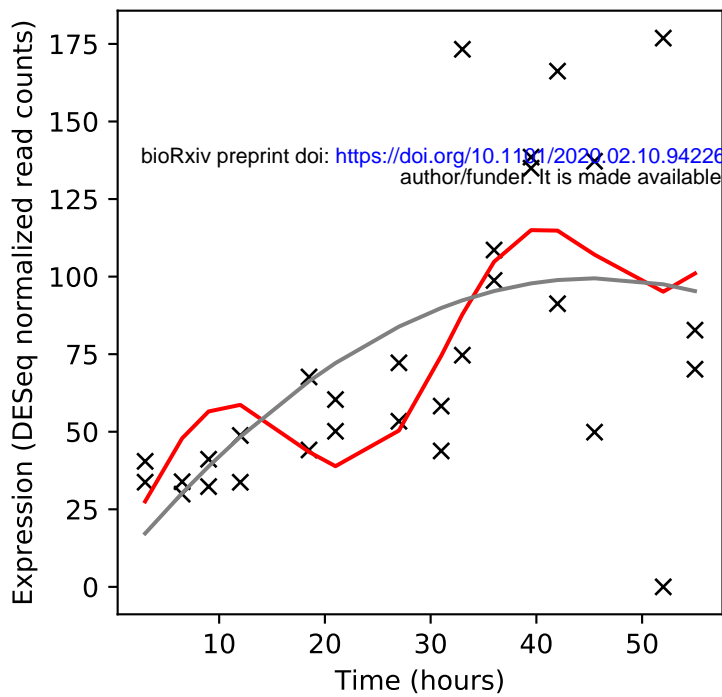
Rv1929c/-



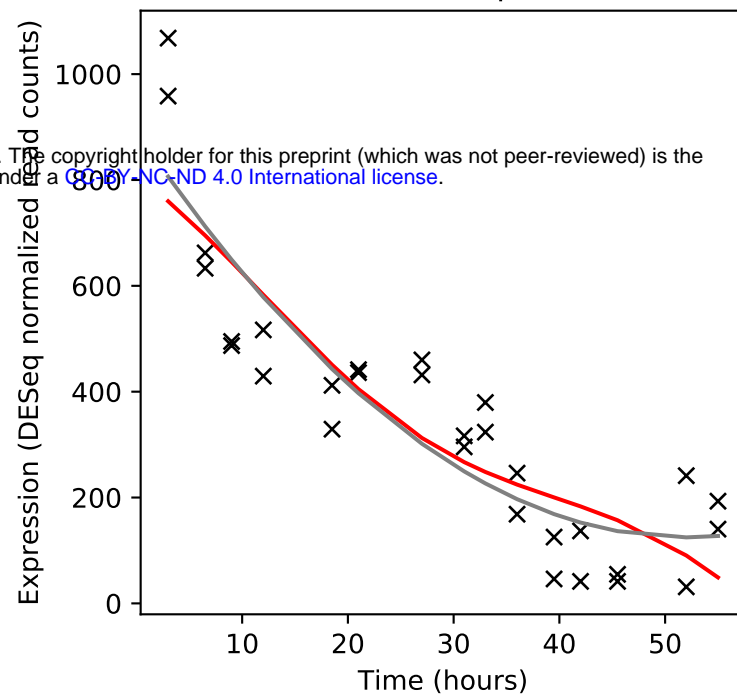
Rv1930c/-



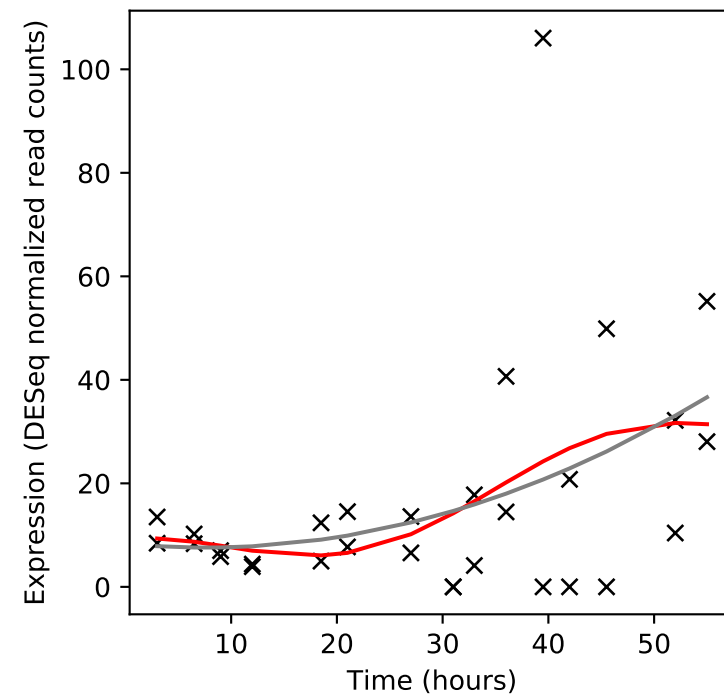
Rv1931c/-



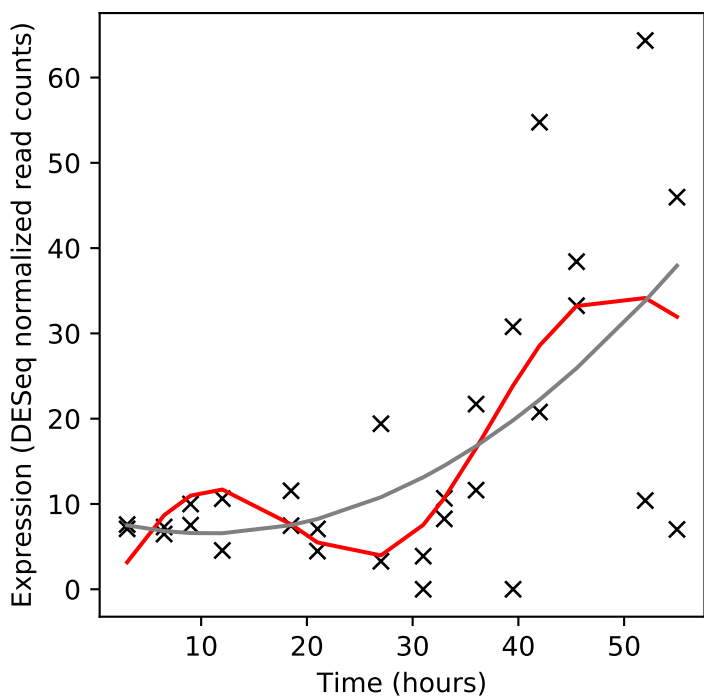
Rv1932/tpx



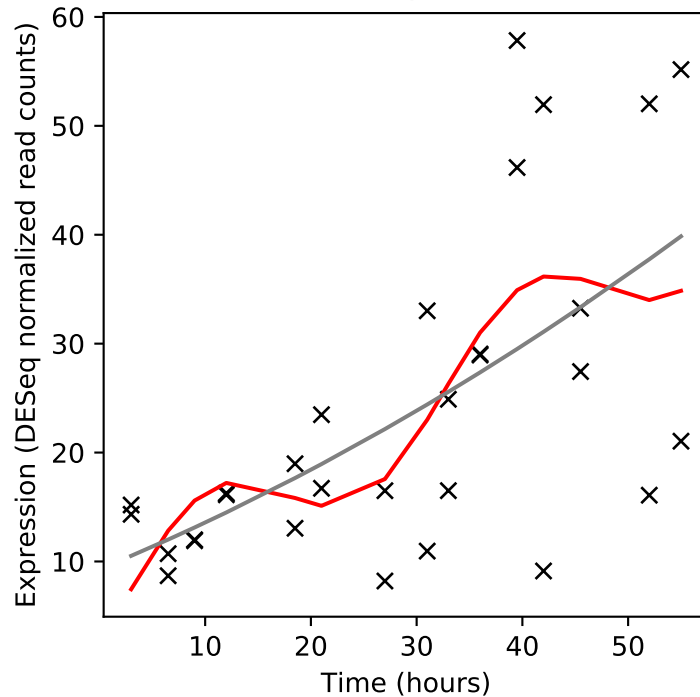
Rv1933c/fadE18



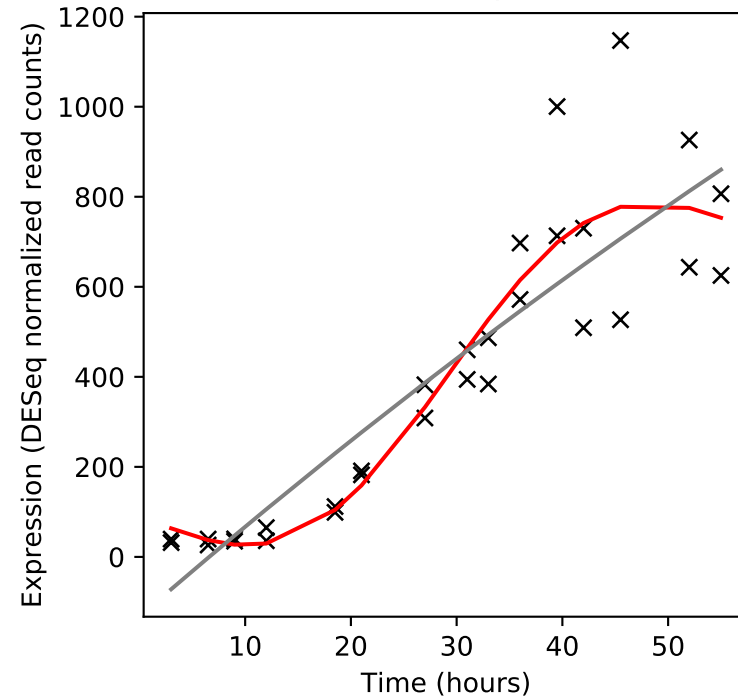
Rv1934c/fadE17



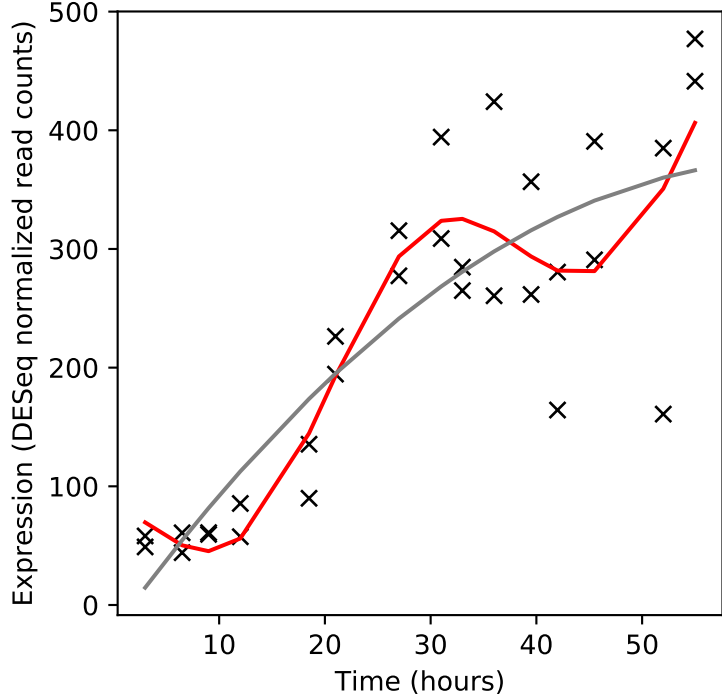
Rv1935c/echA13



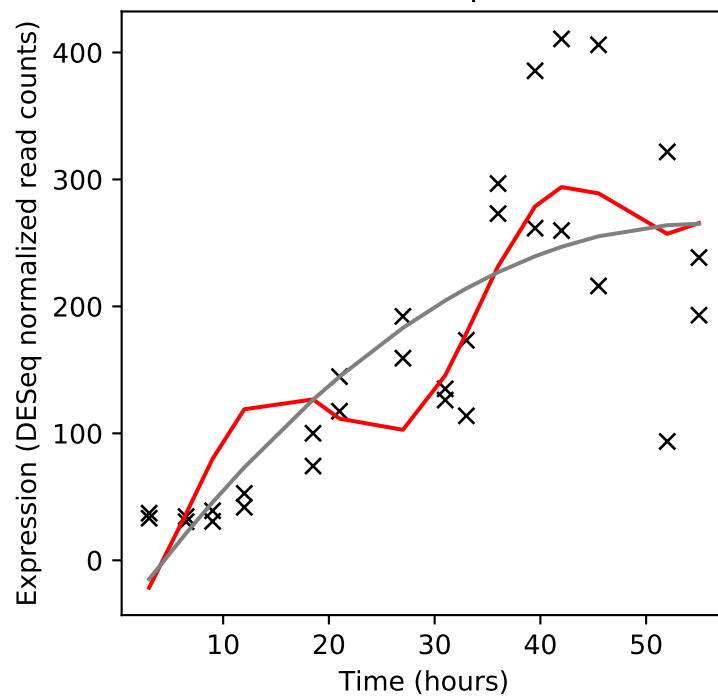
Rv1936/-



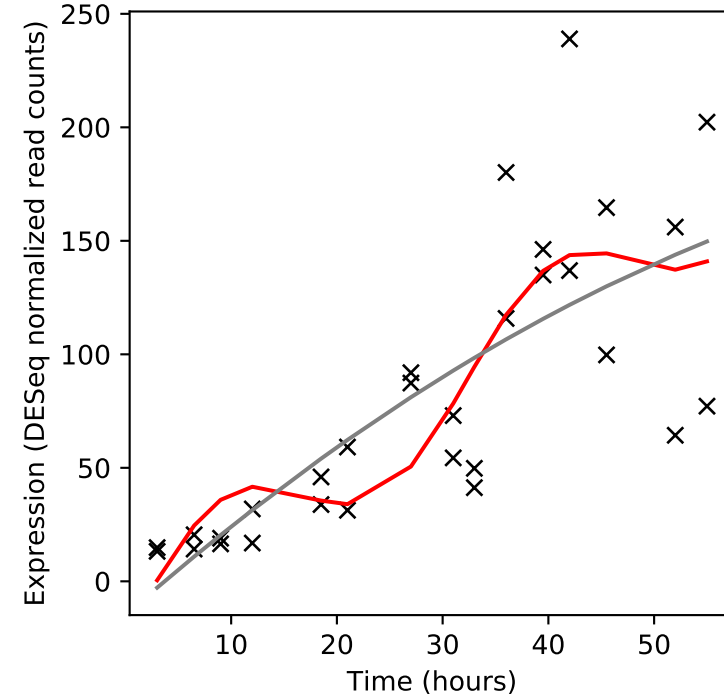
Rv1937/-



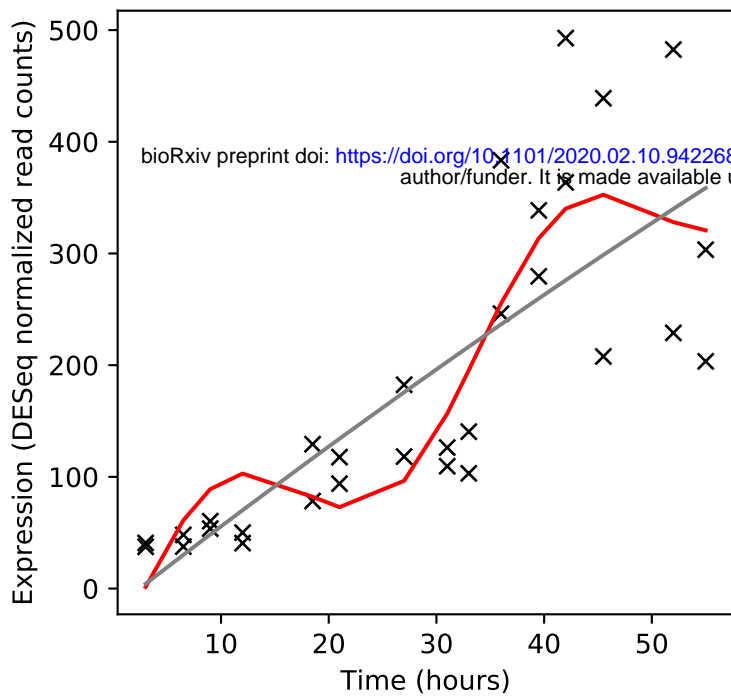
Rv1938/ephB



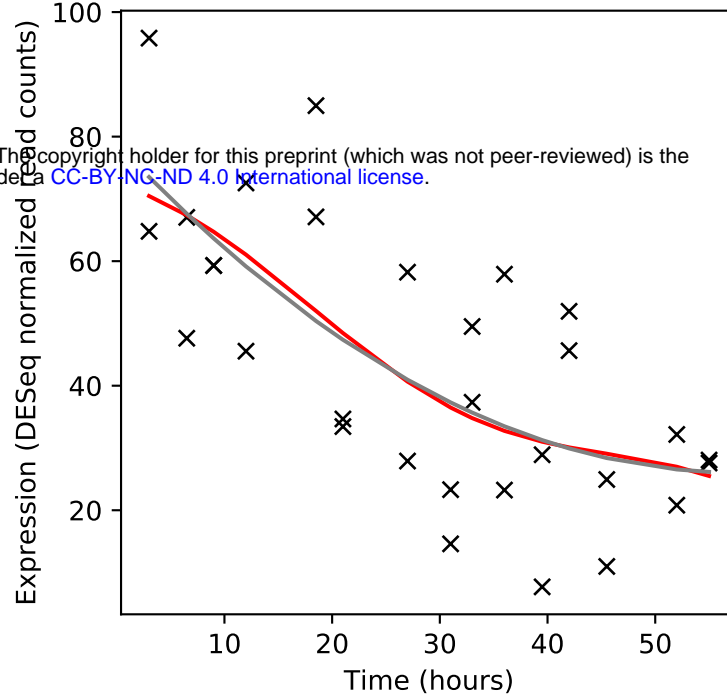
Rv1939/-



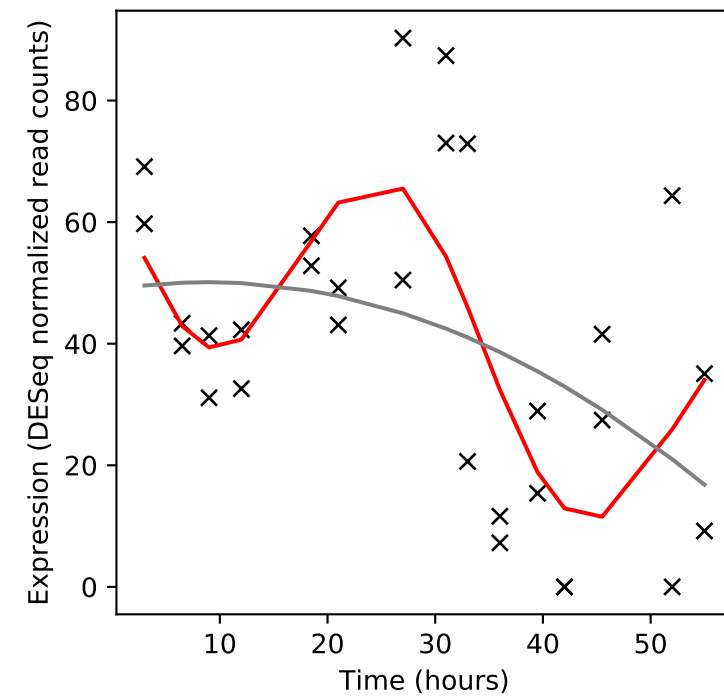
Rv1940/ribA1



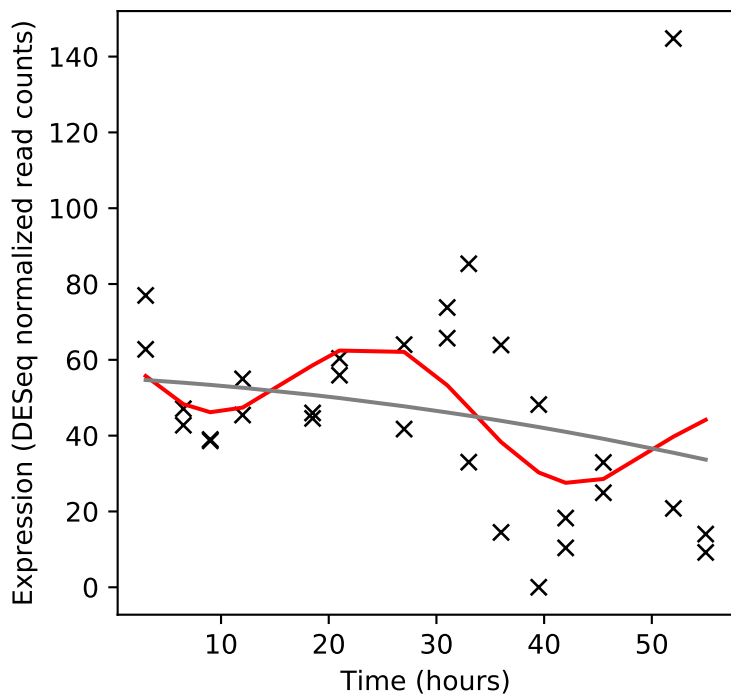
Rv1941/-



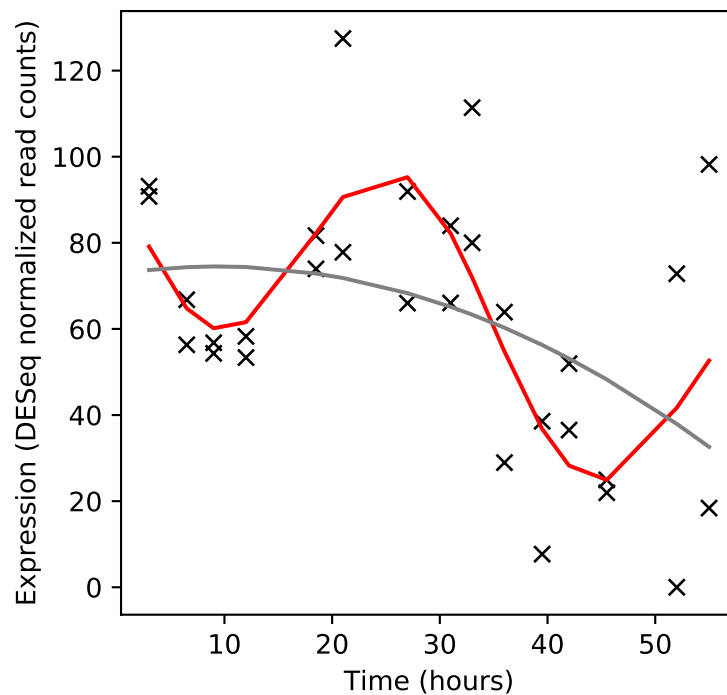
Rv1942c/mazF5



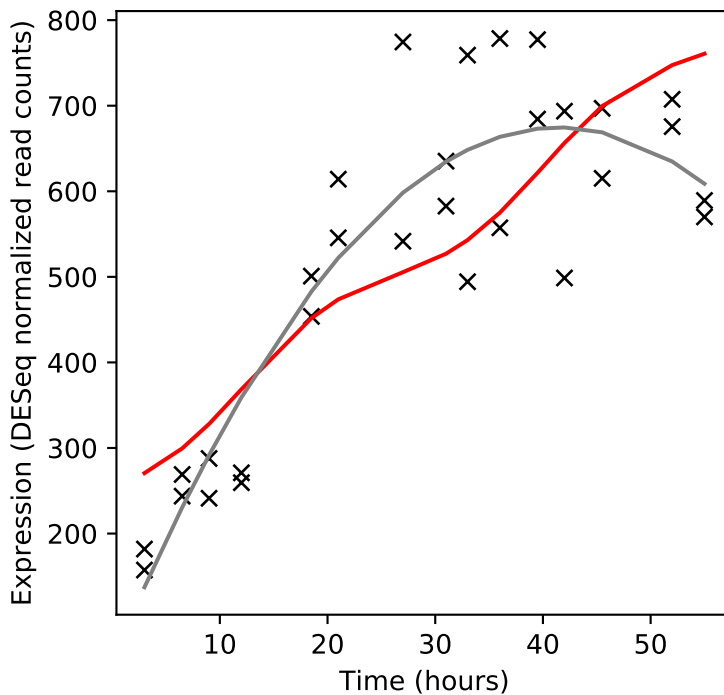
Rv1943c/mazE5



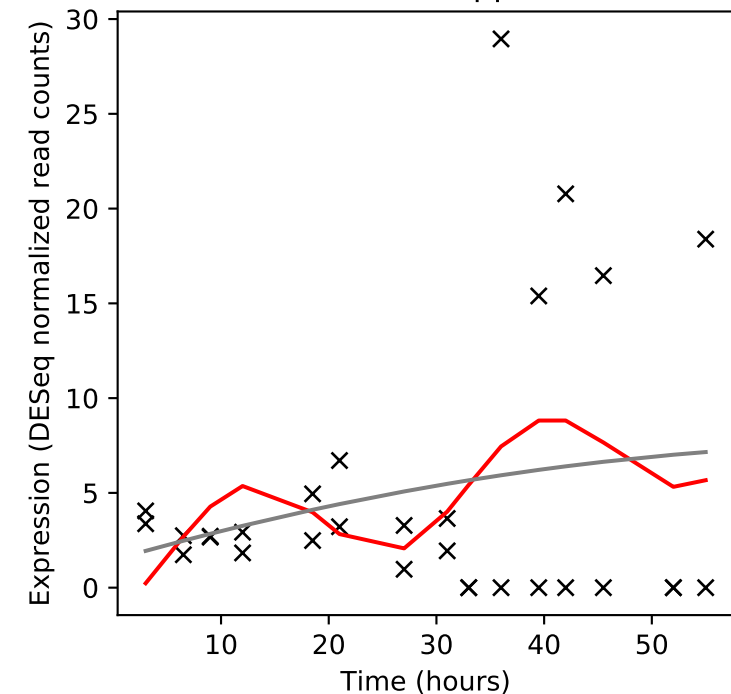
Rv1944c/-



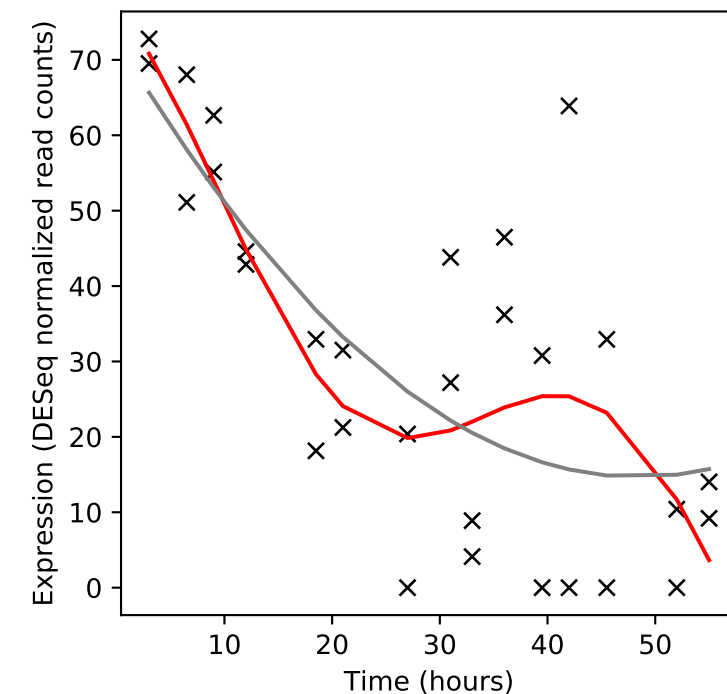
Rv1945/-



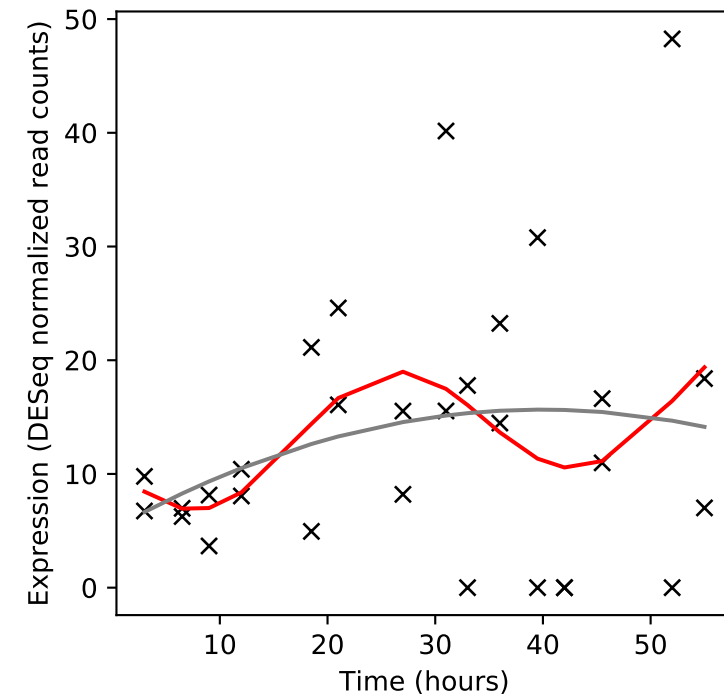
Rv1946c/lppG



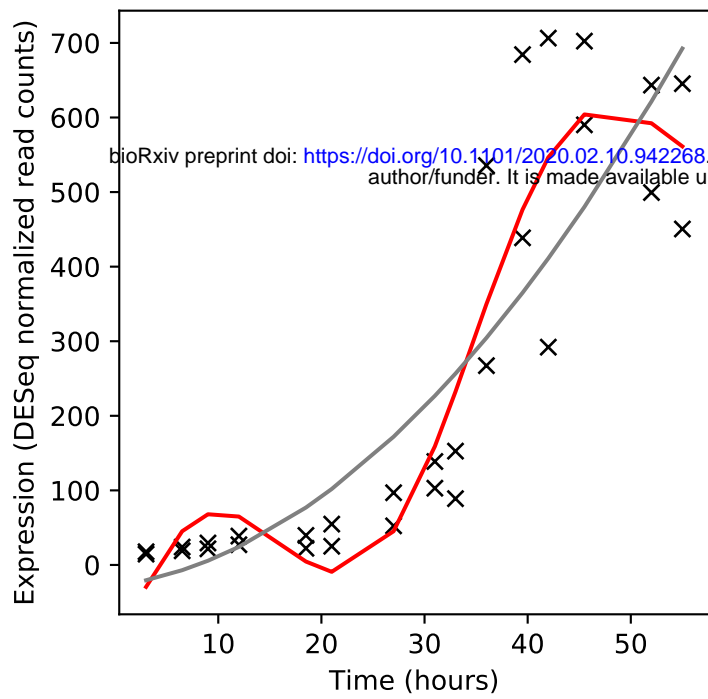
Rv1947/-



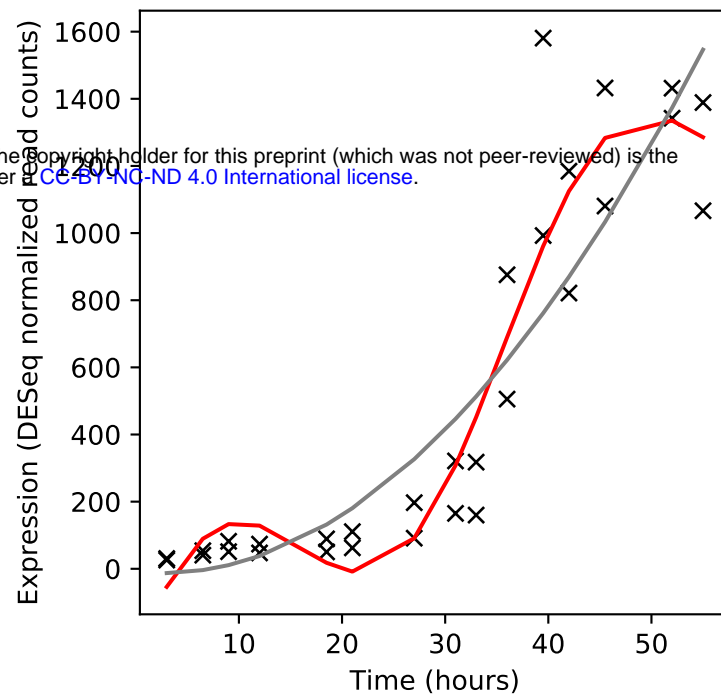
Rv1948c/-



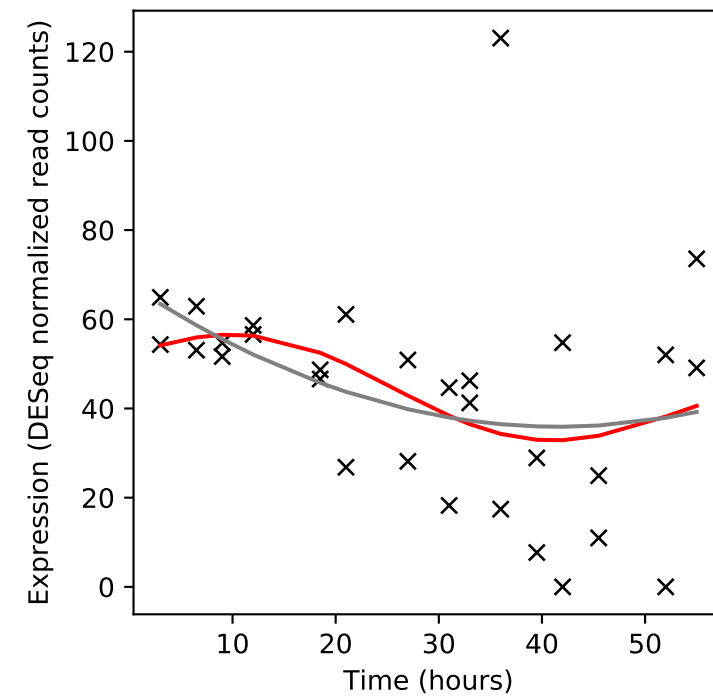
Rv1949c/-



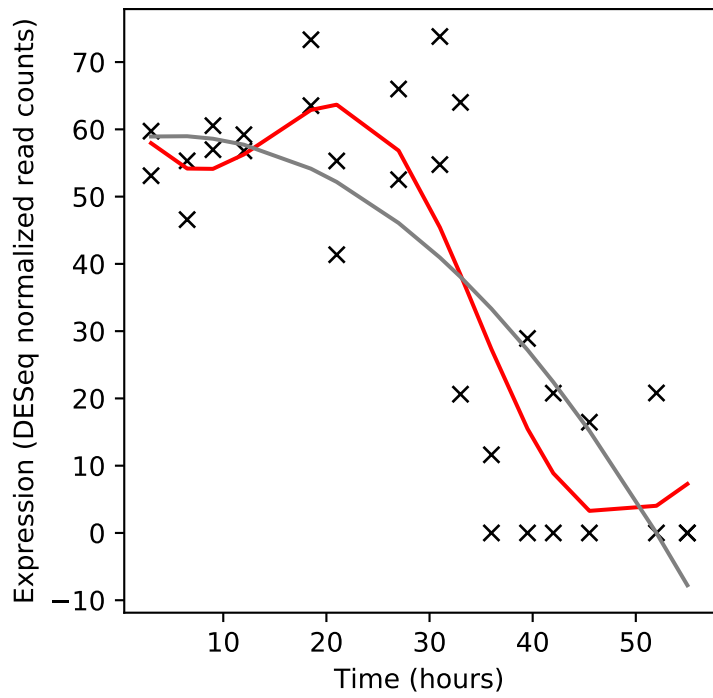
Rv1950c/-



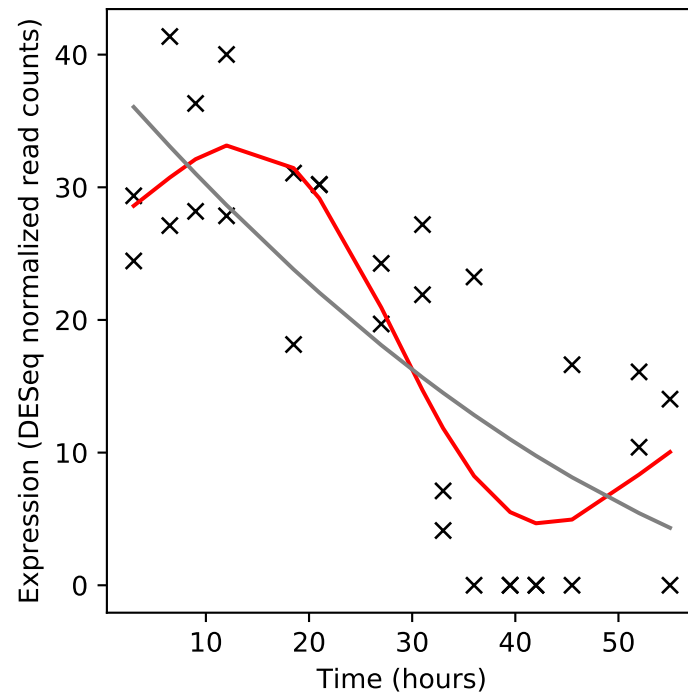
Rv1951c/-



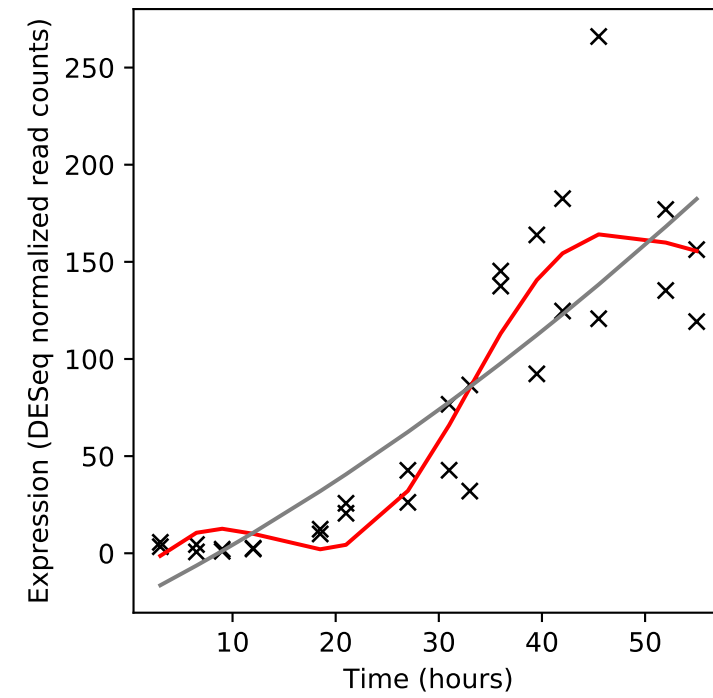
Rv1952/vapB14



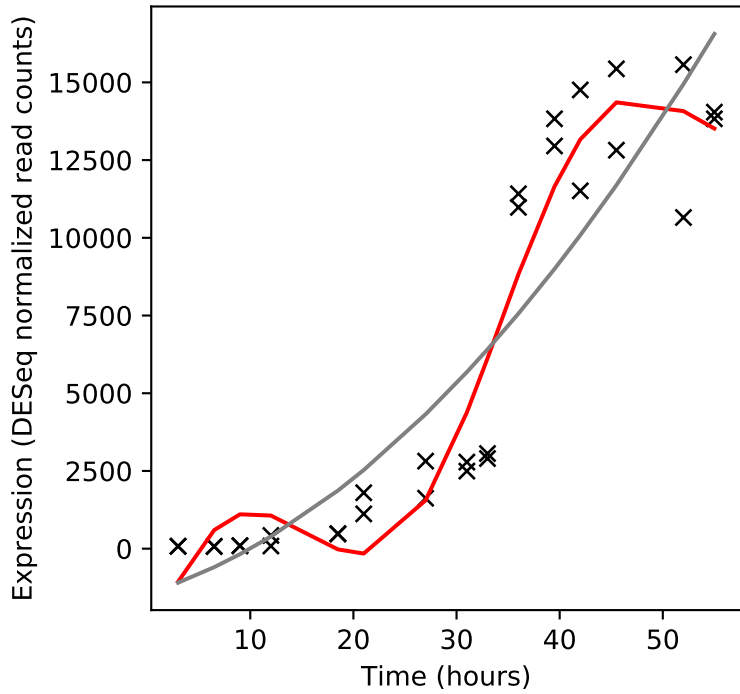
Rv1953/vapC14



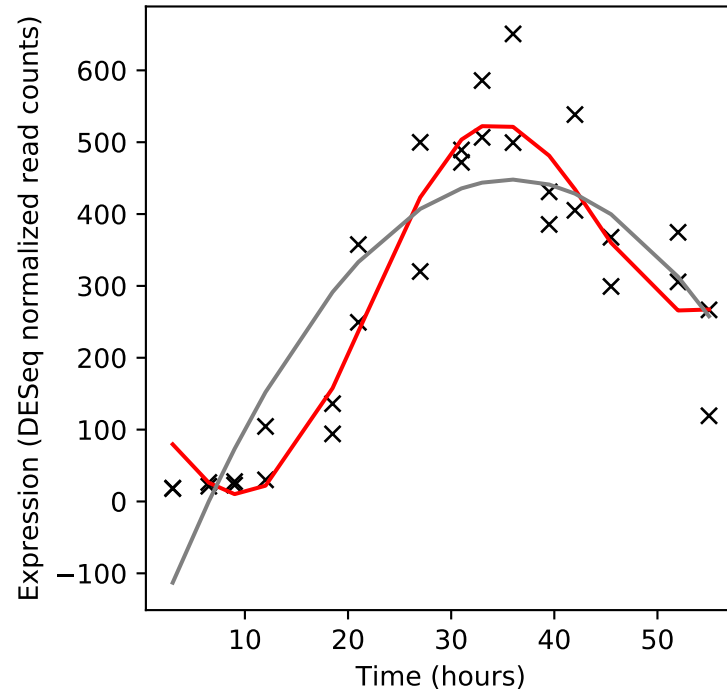
Rv1954c/-



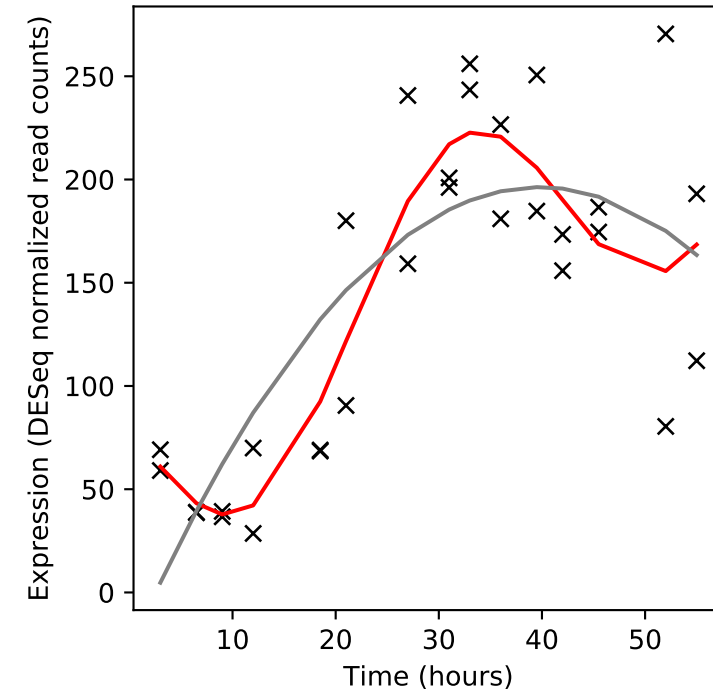
Rv1954A/-



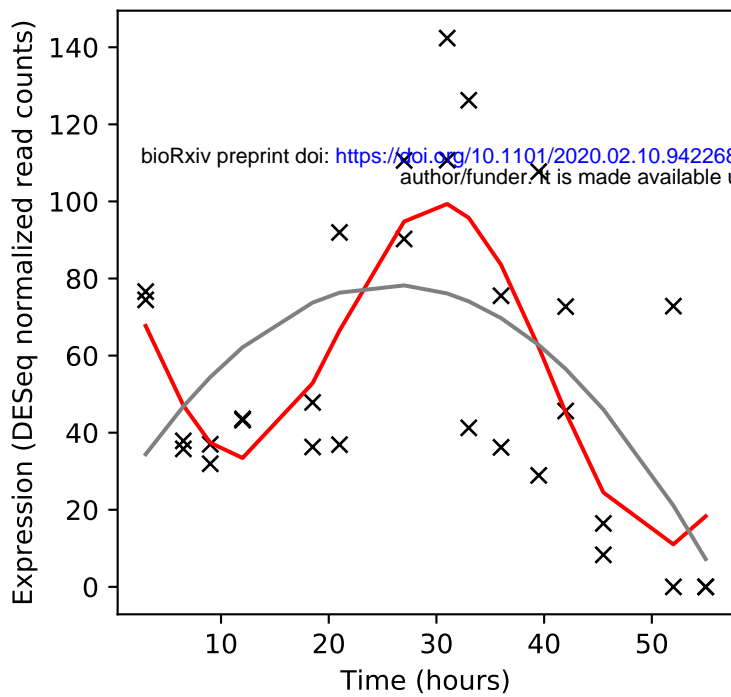
Rv1955/higB



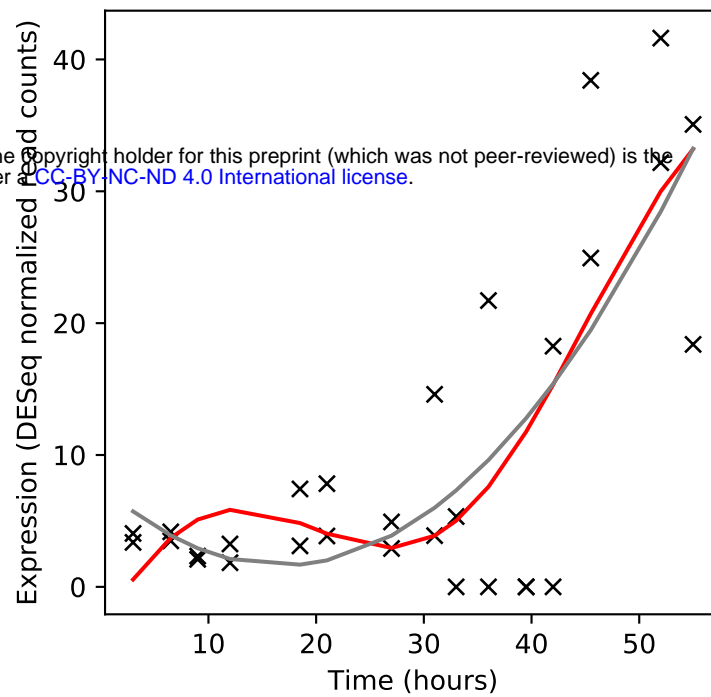
Rv1956/higA



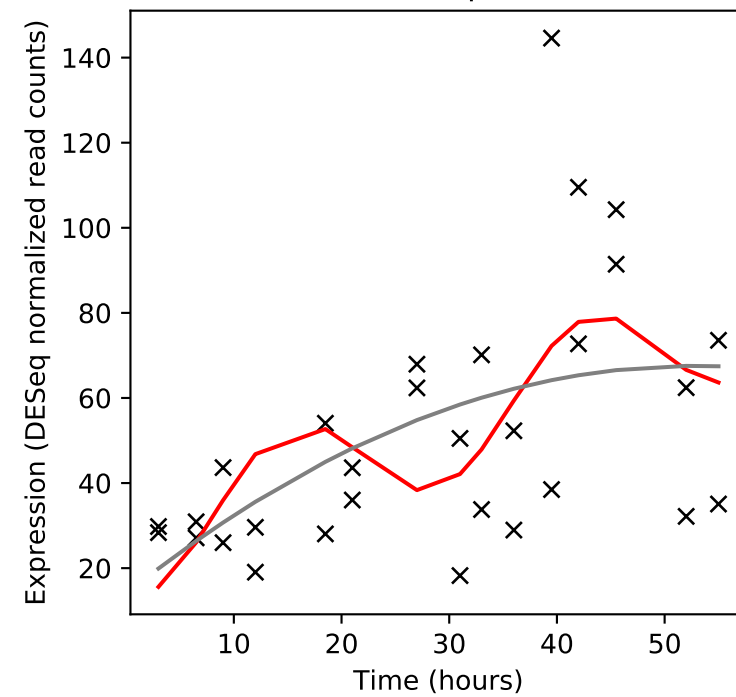
Rv1957/-



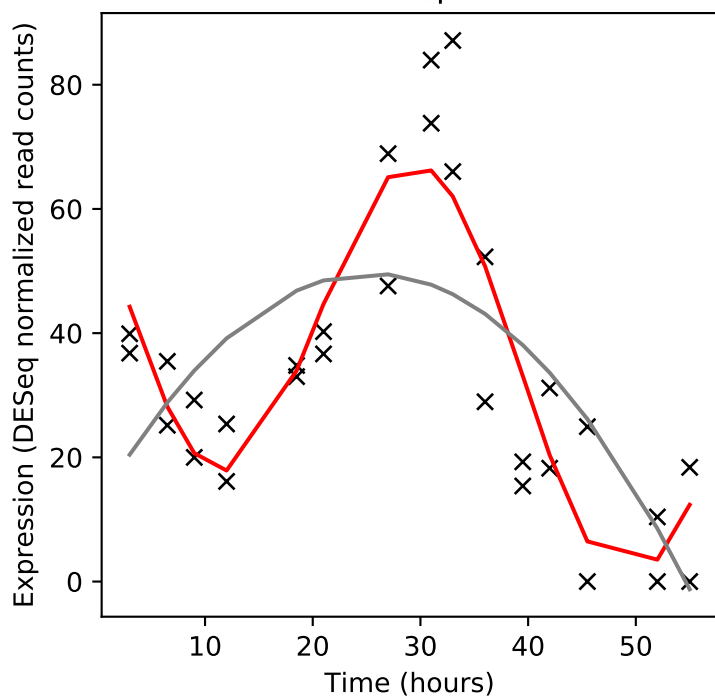
Rv1958c/-



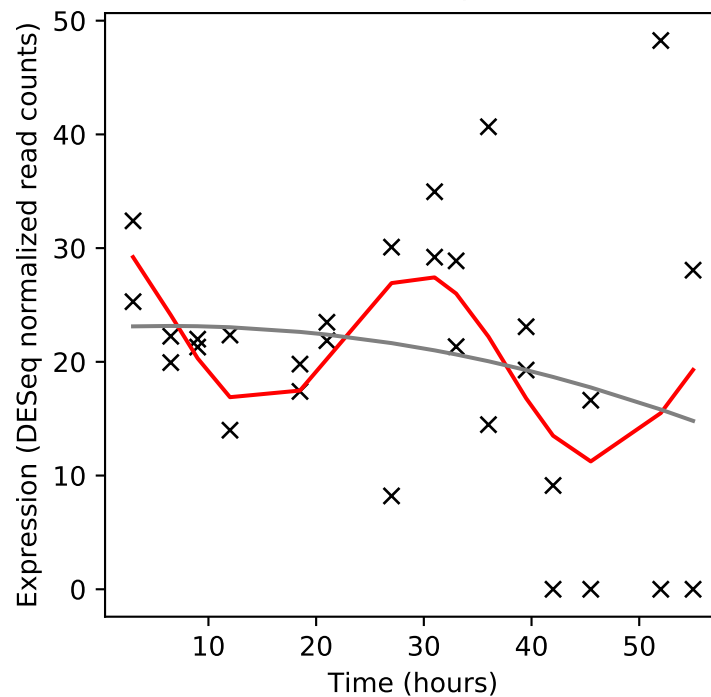
Rv1959c/parE1



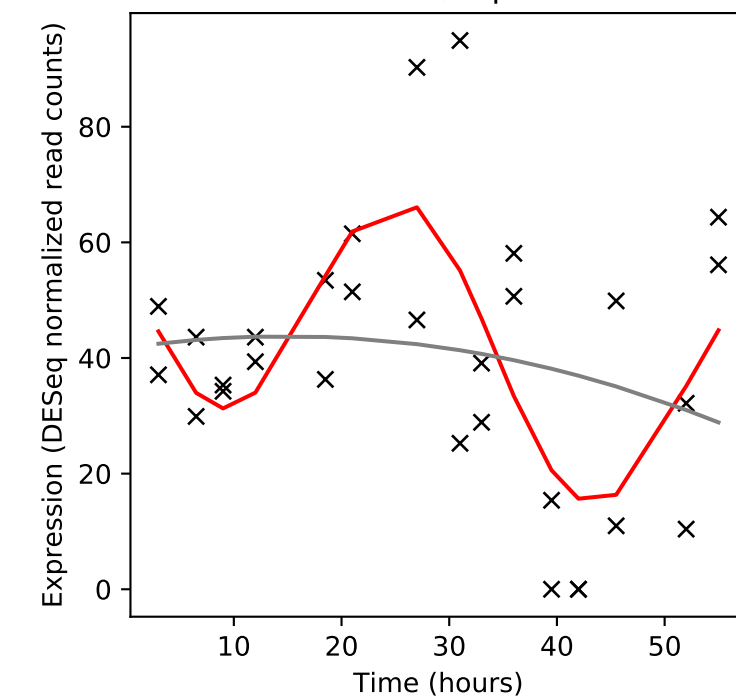
Rv1960c/parD1



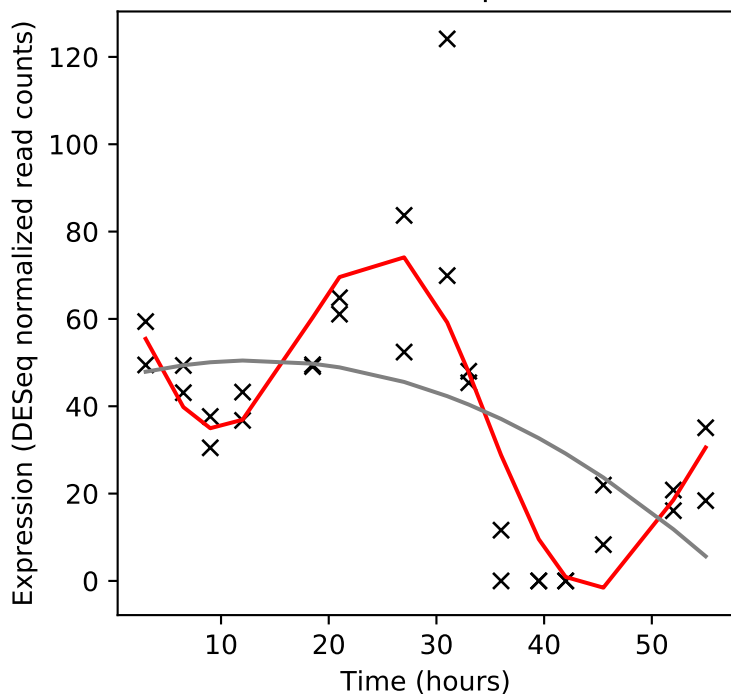
Rv1961/-



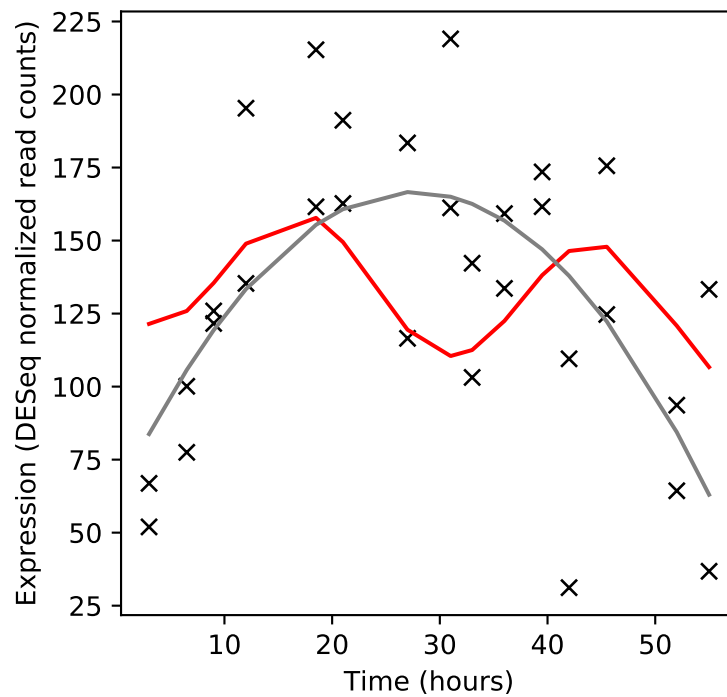
Rv1962c/vapC35



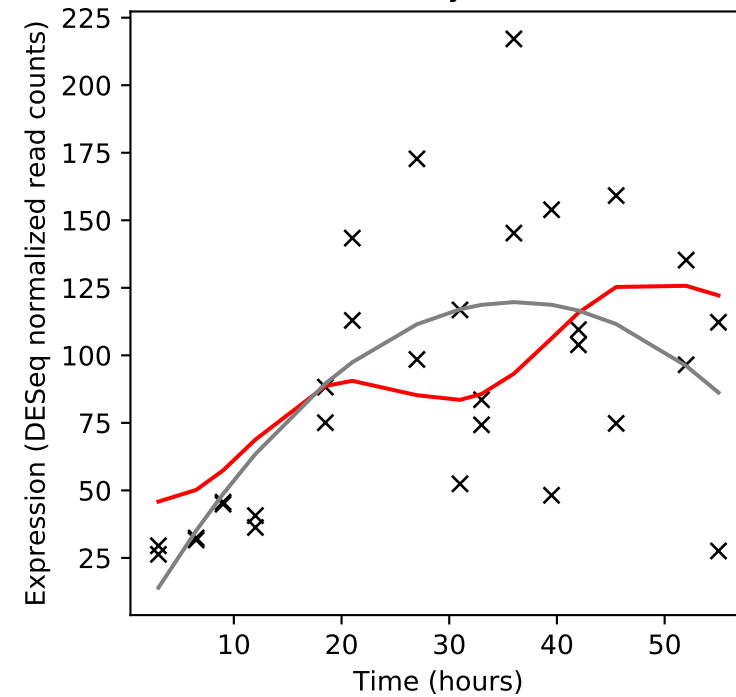
Rv1962A/vapB35



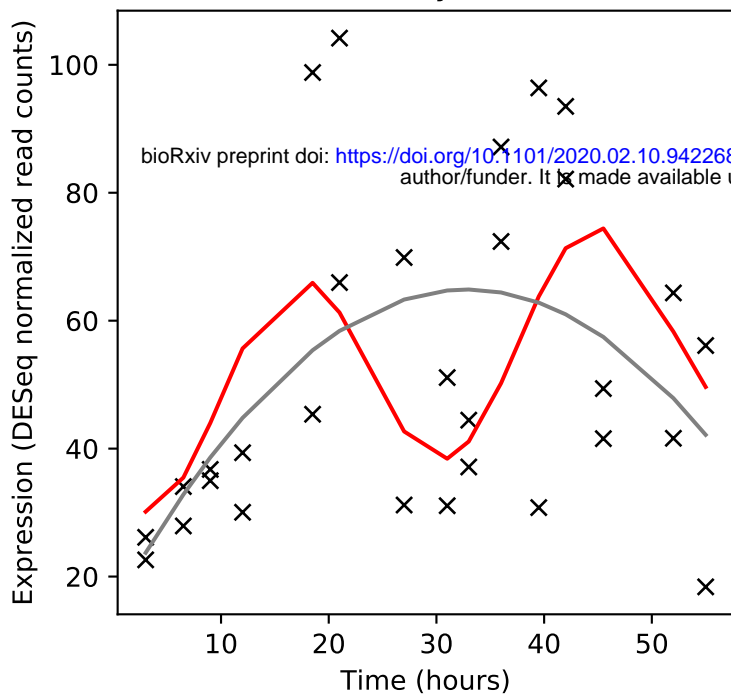
Rv1963c/mce3R



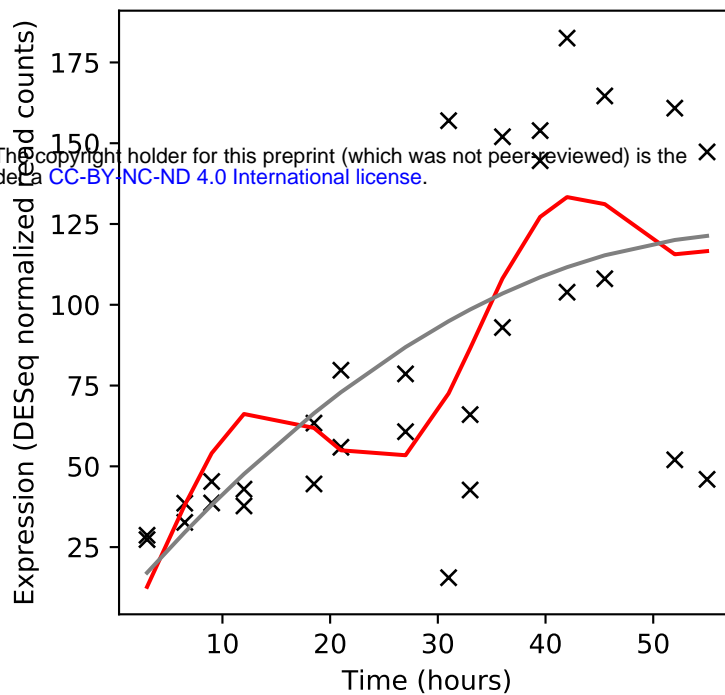
Rv1964/yrbE3A



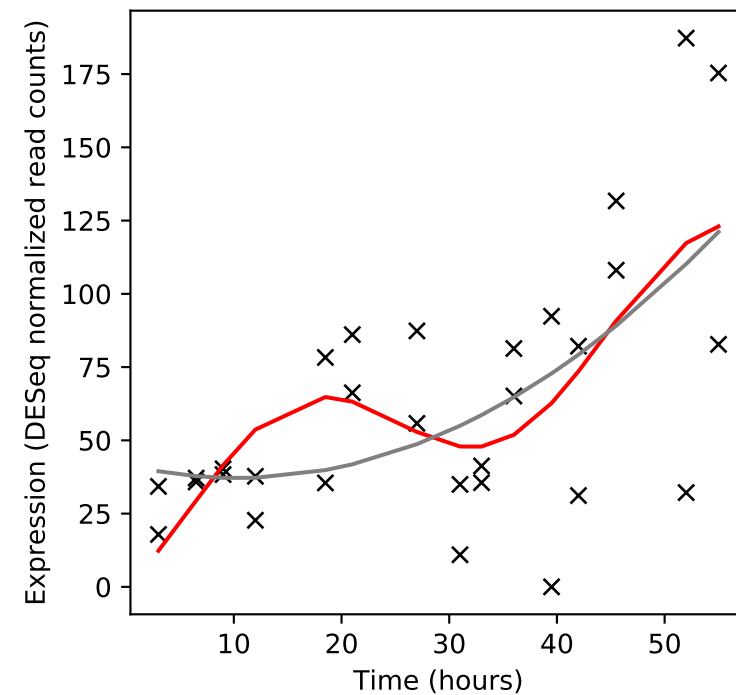
Rv1965/yrbE3B



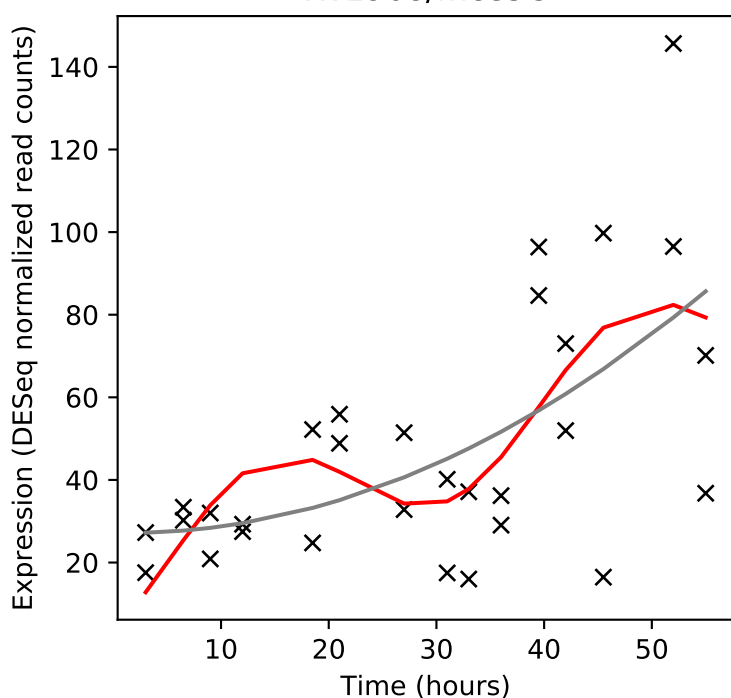
Rv1966/mce3A



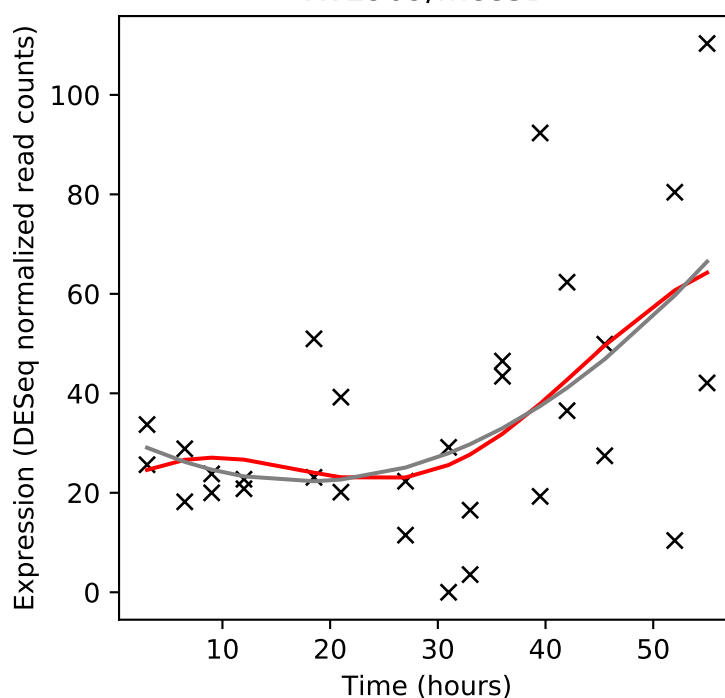
Rv1967/mce3B



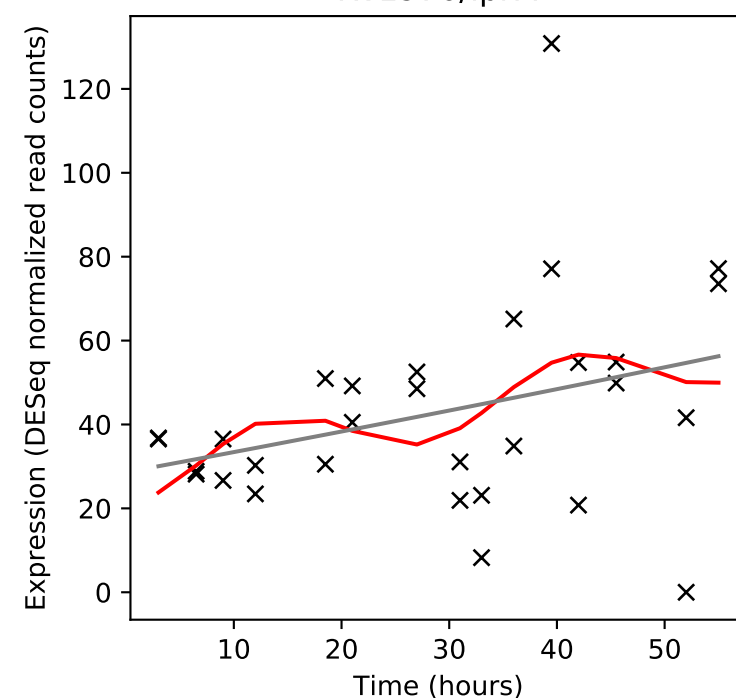
Rv1968/mce3C



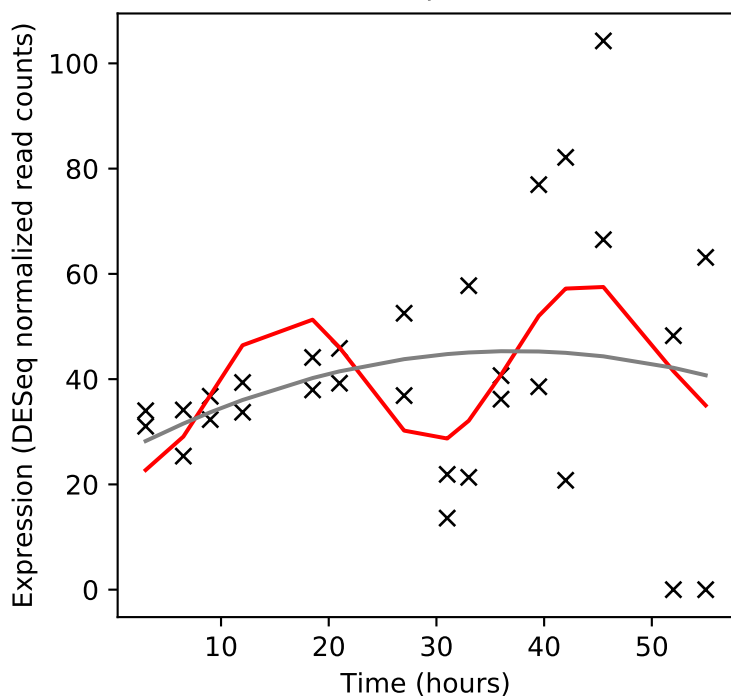
Rv1969/mce3D



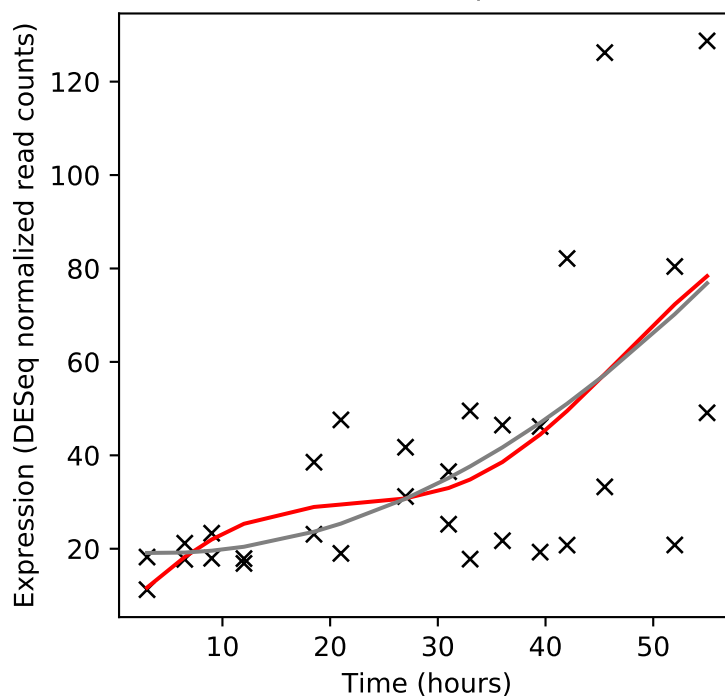
Rv1970/lprM



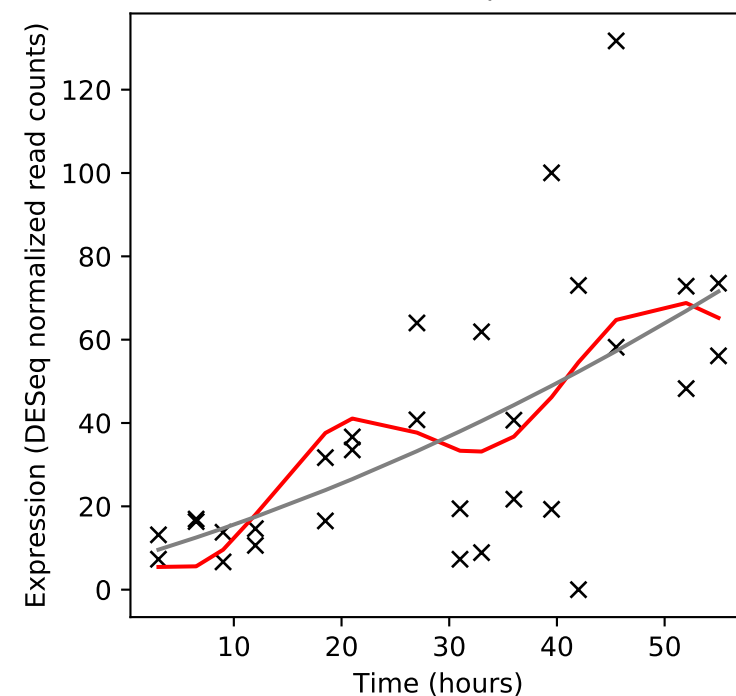
Rv1971/mce3F



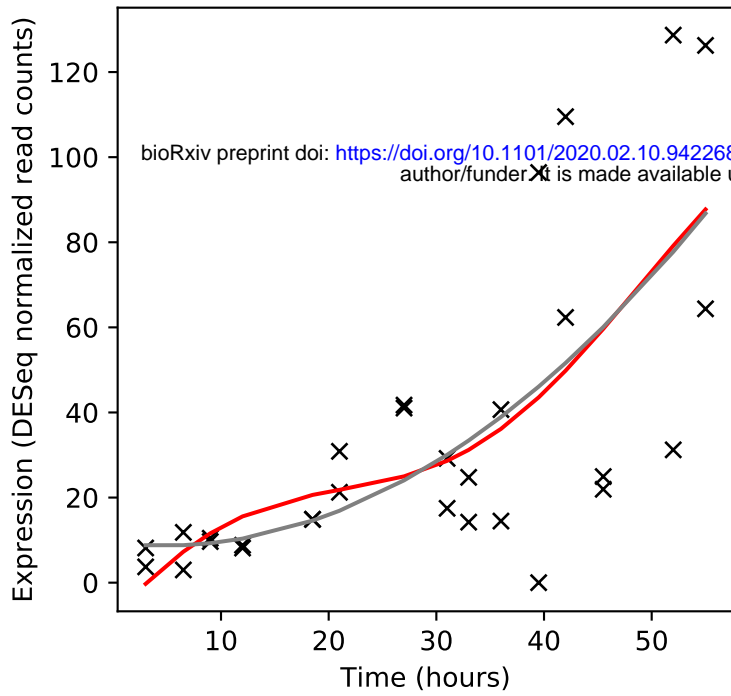
Rv1972/-



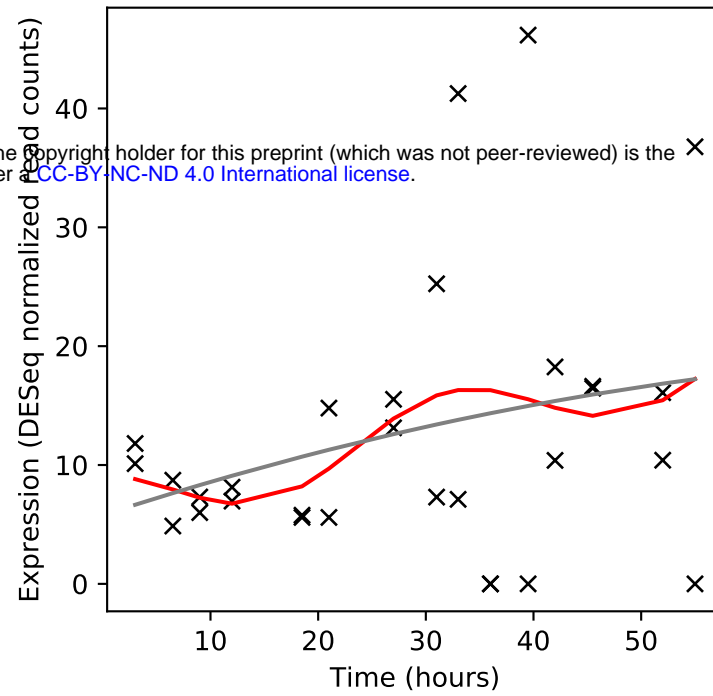
Rv1973/-



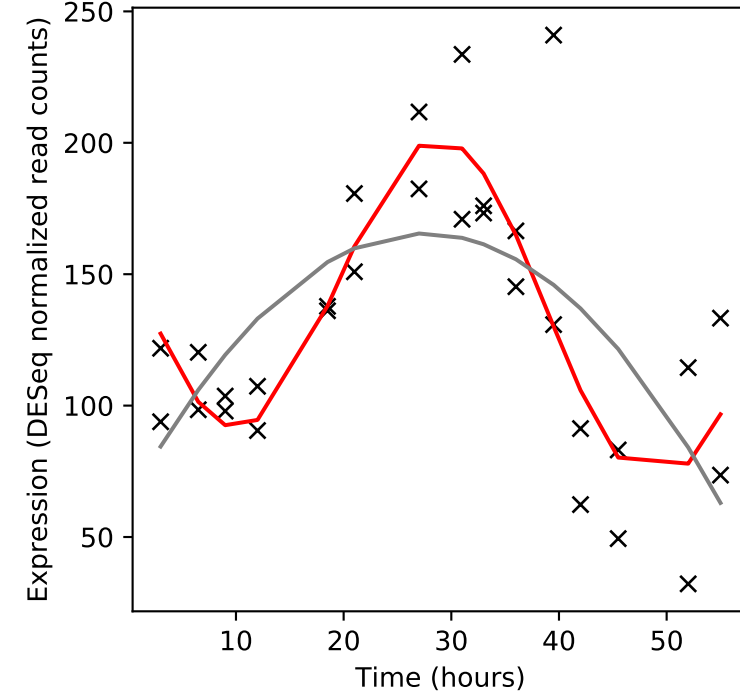
Rv1974/-



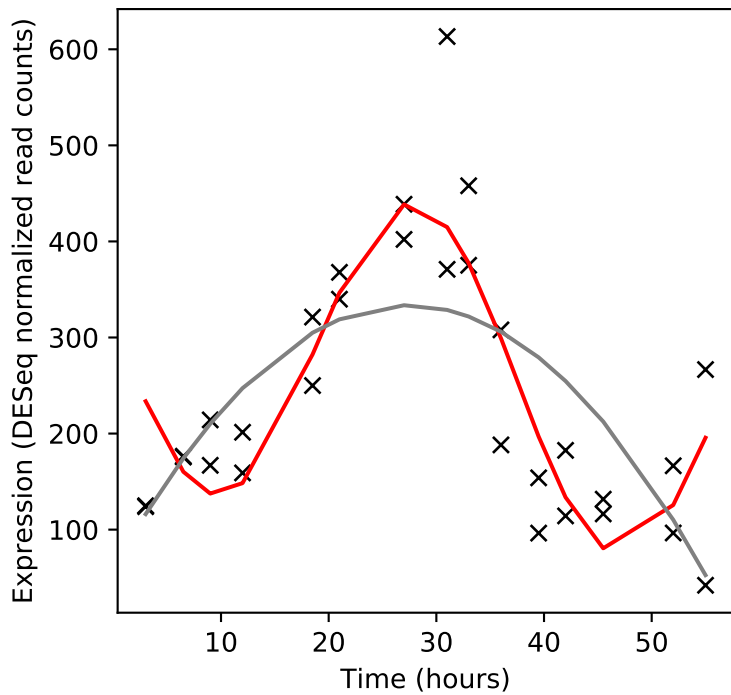
Rv1975/-



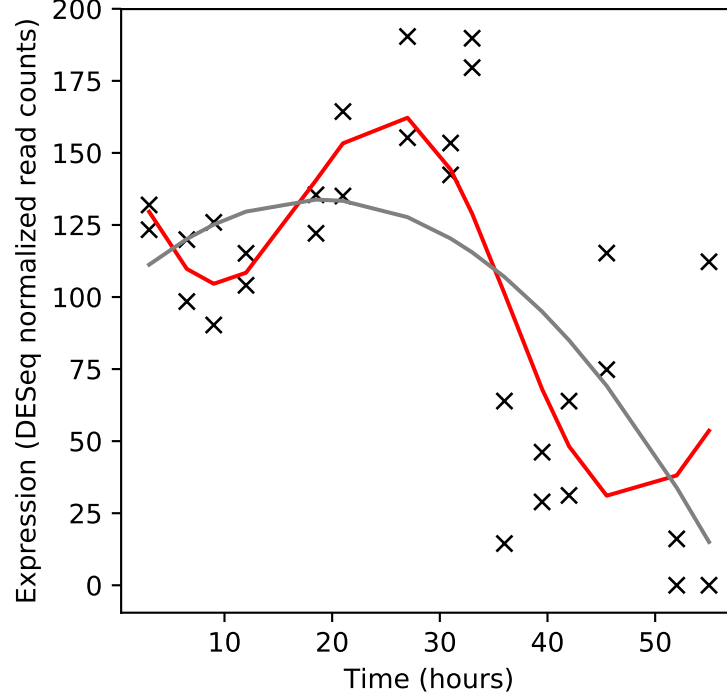
Rv1976c/-



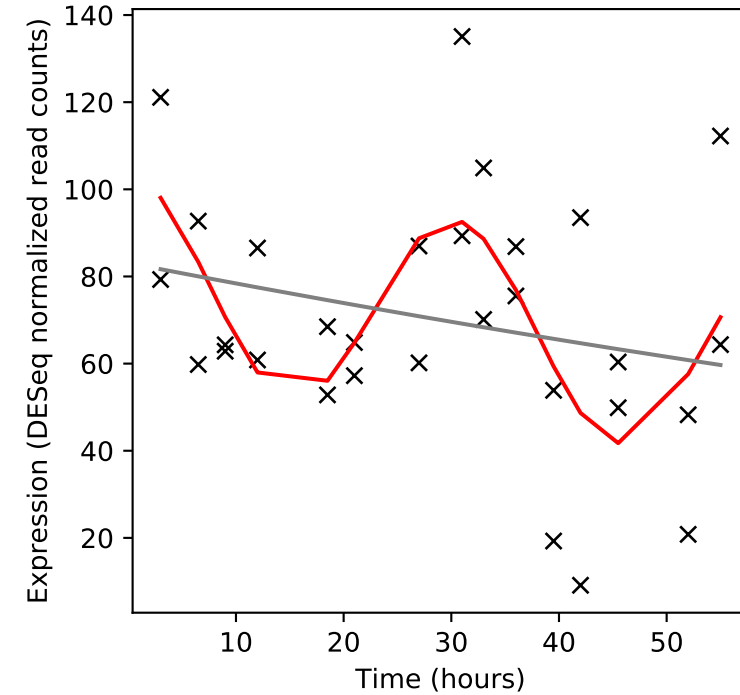
Rv1977/-



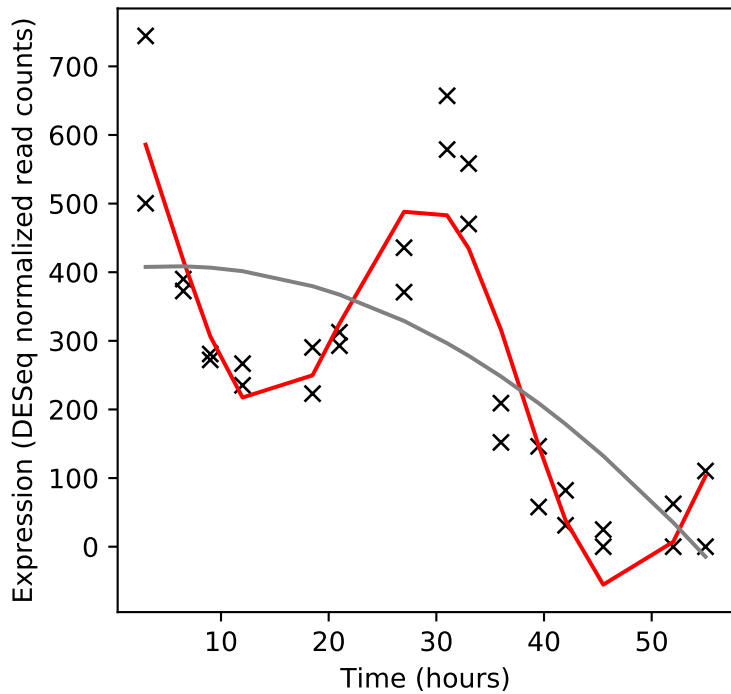
Rv1978/-



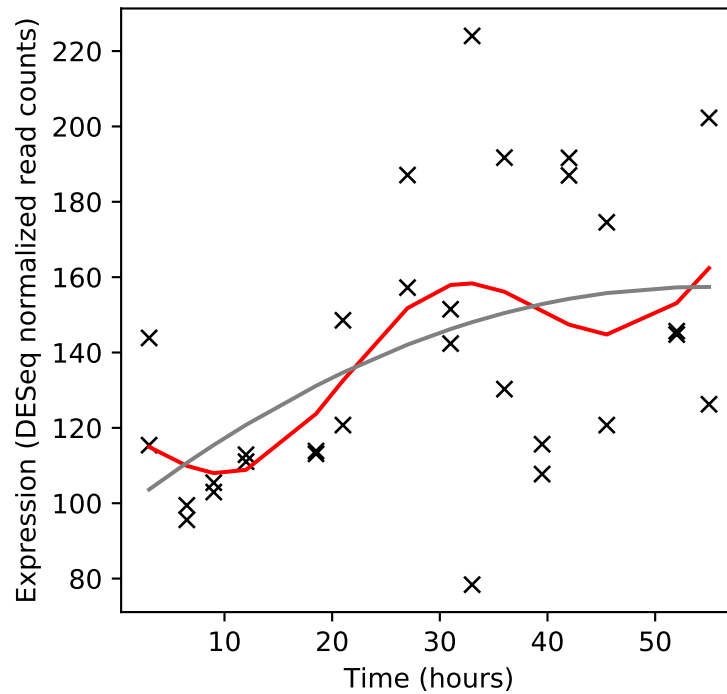
Rv1979c/-



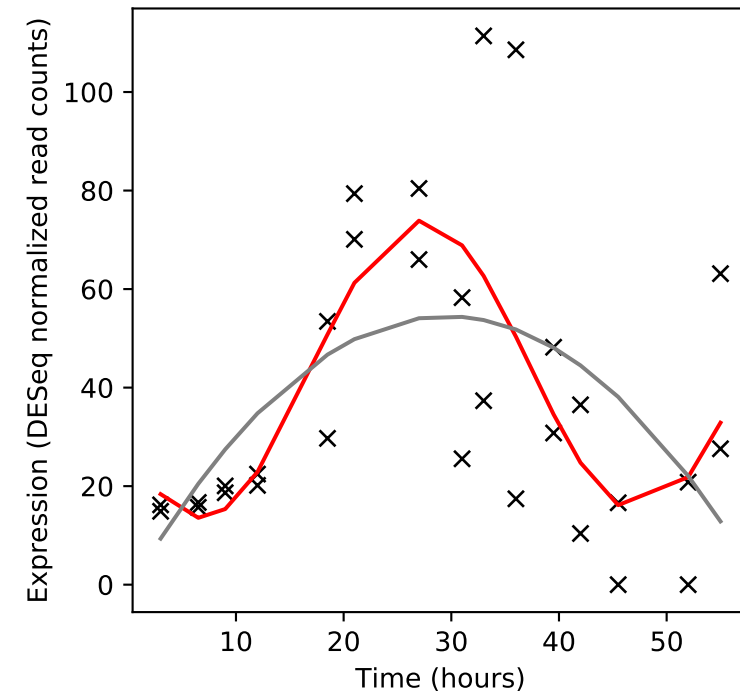
Rv1980c/mpt64



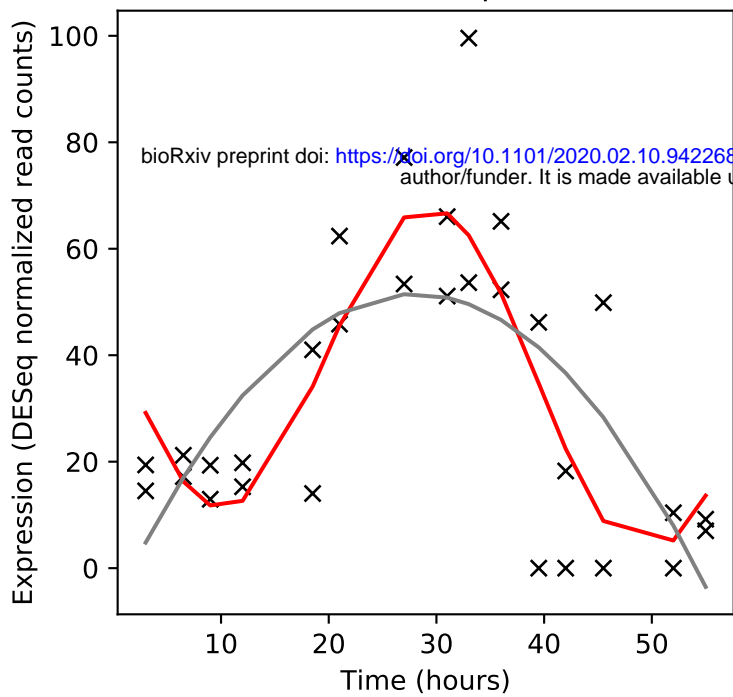
Rv1981c/nrdF1



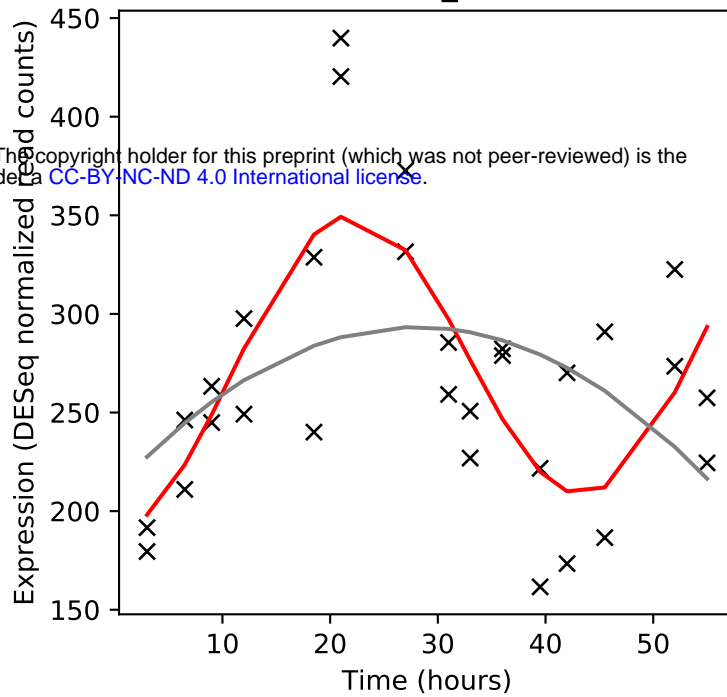
Rv1982c/vapC36



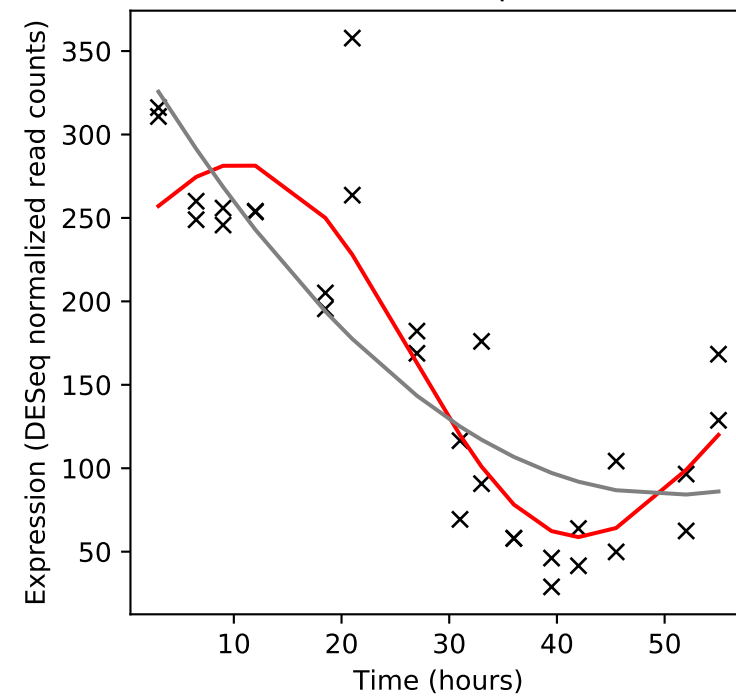
Rv1982A/vapB36



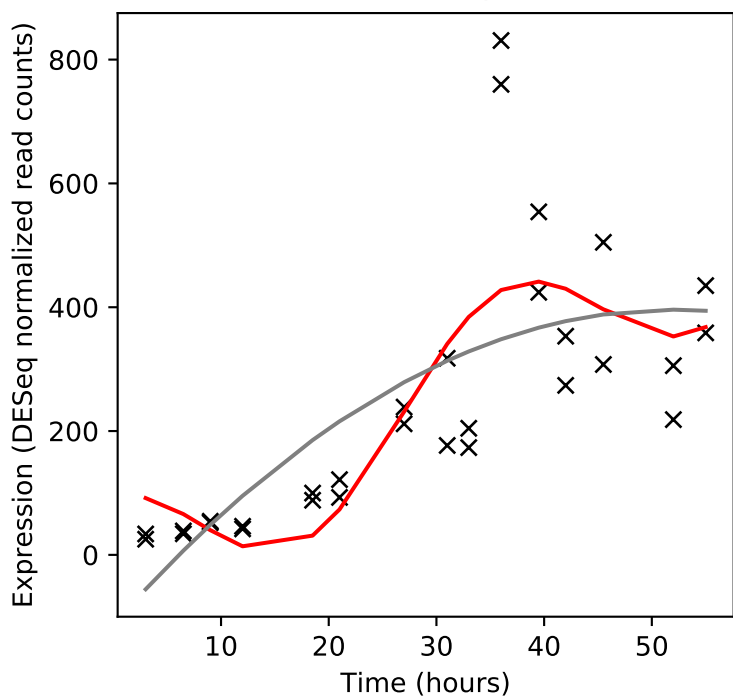
Rv1983/PE_PGRS35



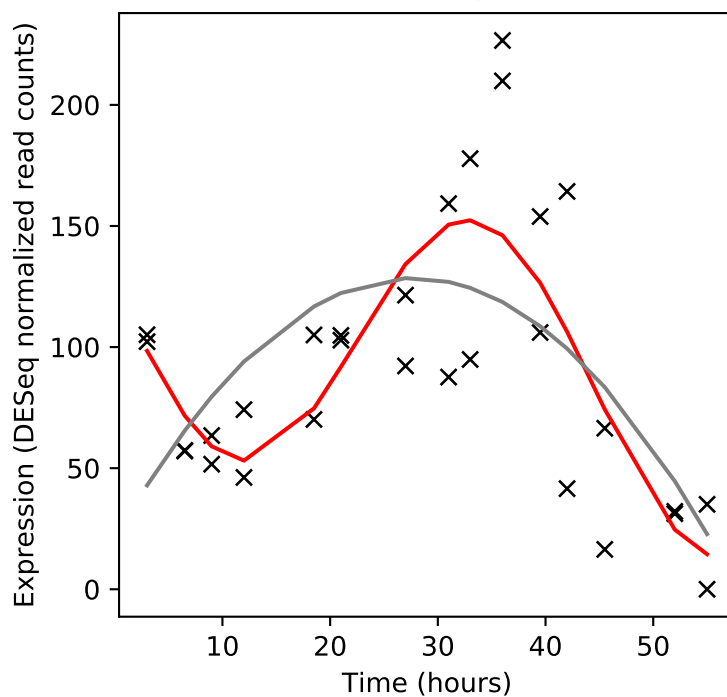
Rv1984c/cfp21



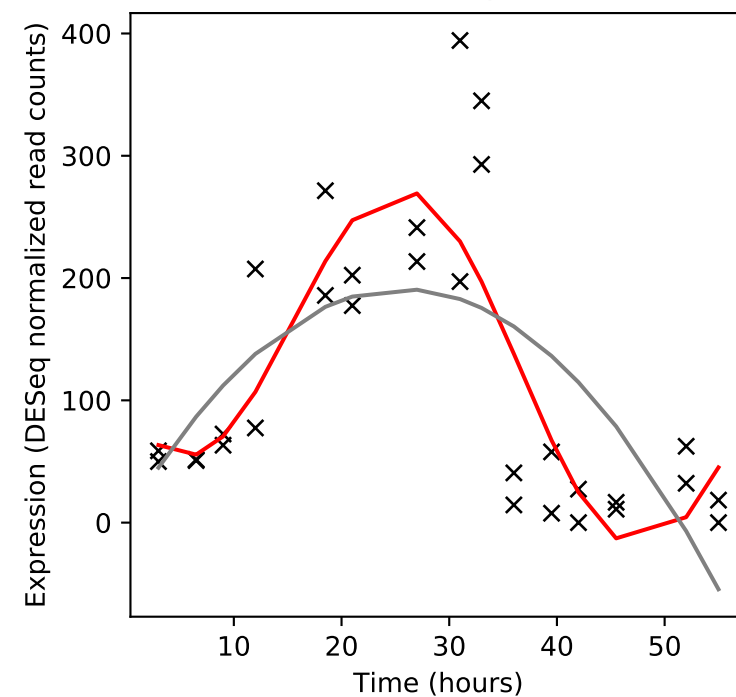
Rv1985c/-



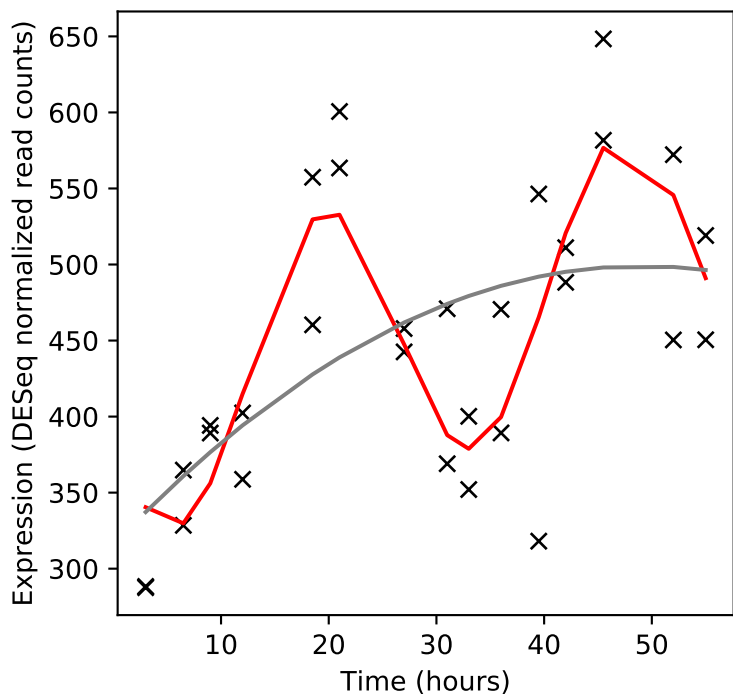
Rv1986/-



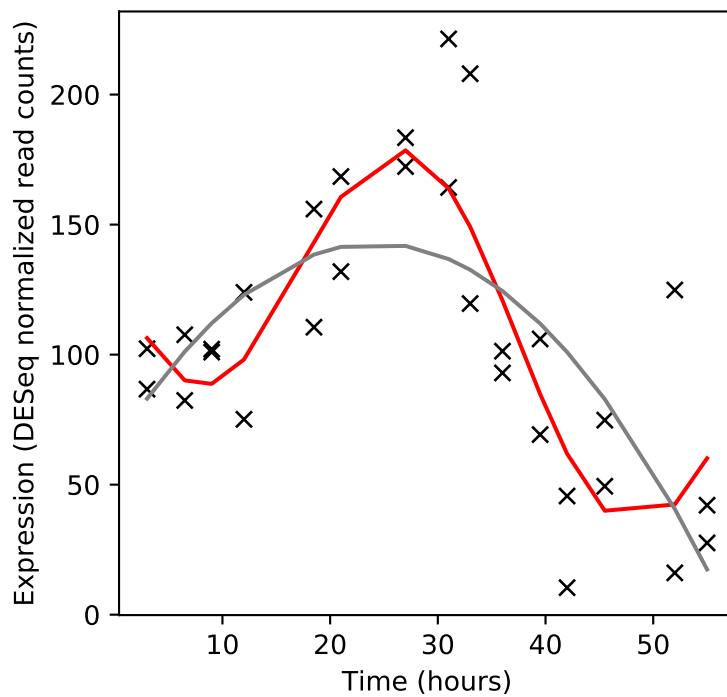
Rv1987/-



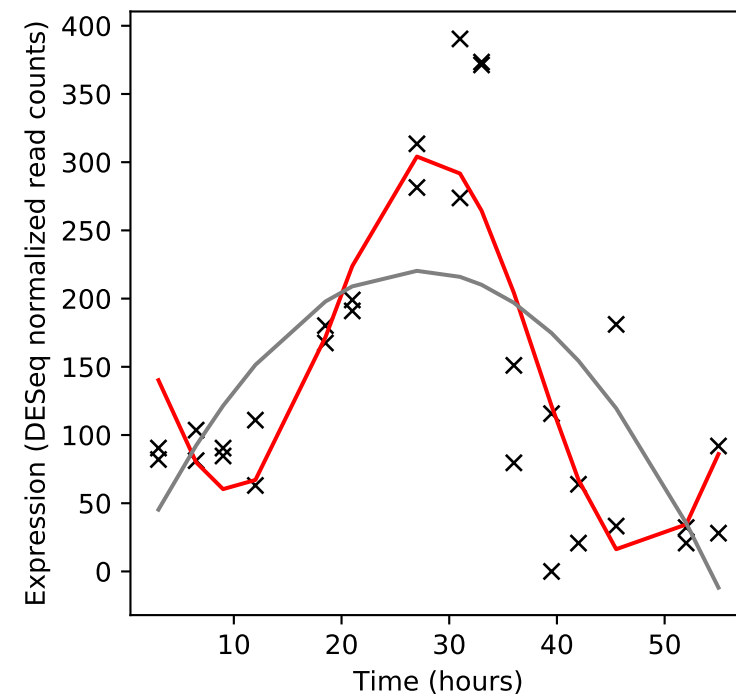
Rv1988/erm(37)



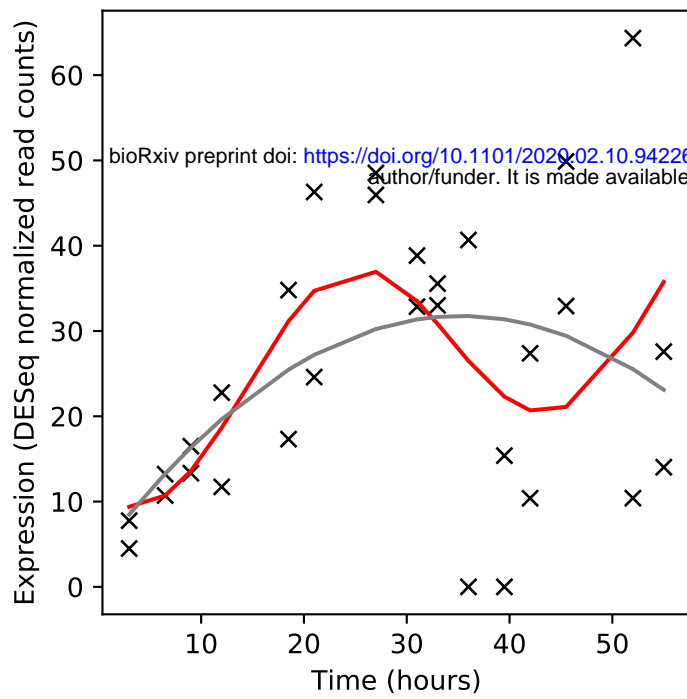
Rv1989c/-



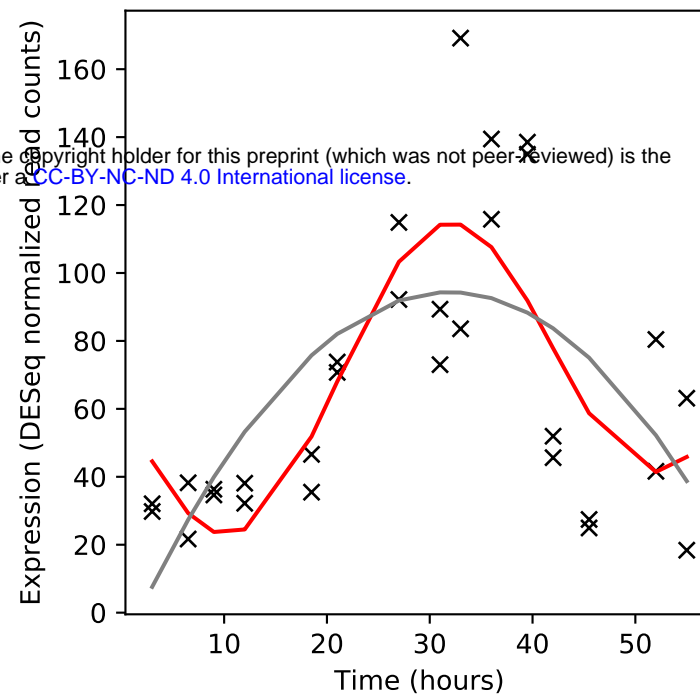
Rv1990c/-



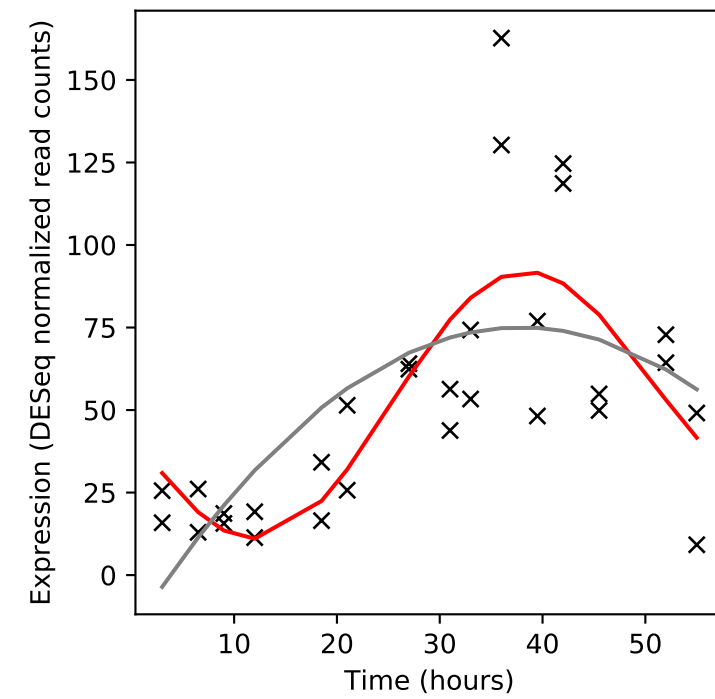
Rv1990A/-



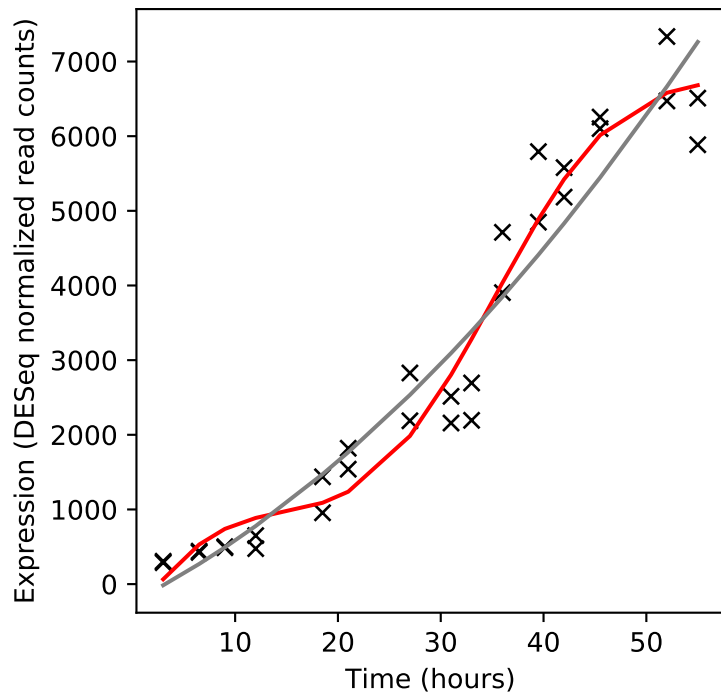
Rv1991c/mazF6



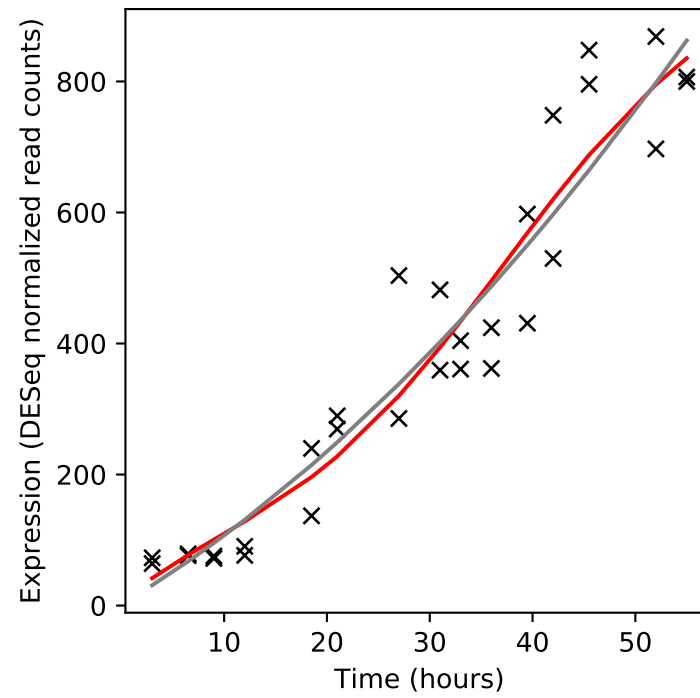
Rv1991A/mazE6



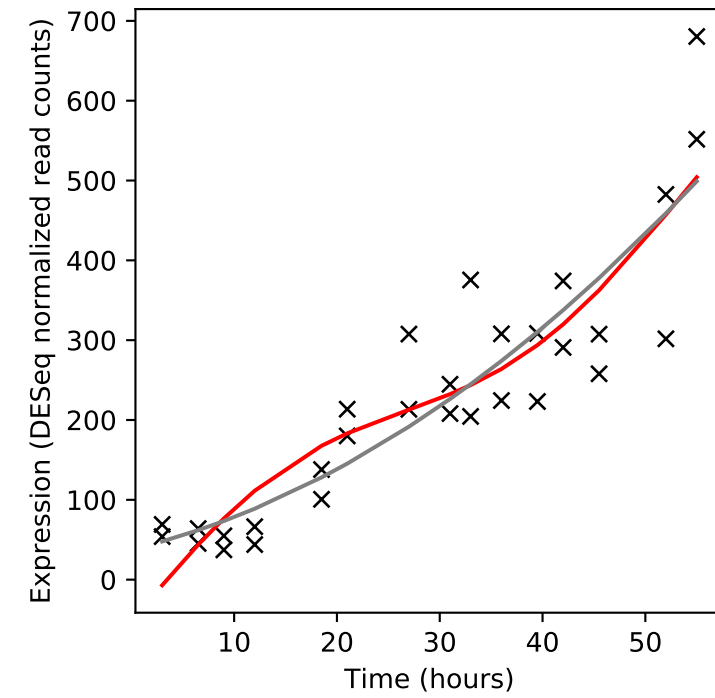
Rv1992c/ctpG



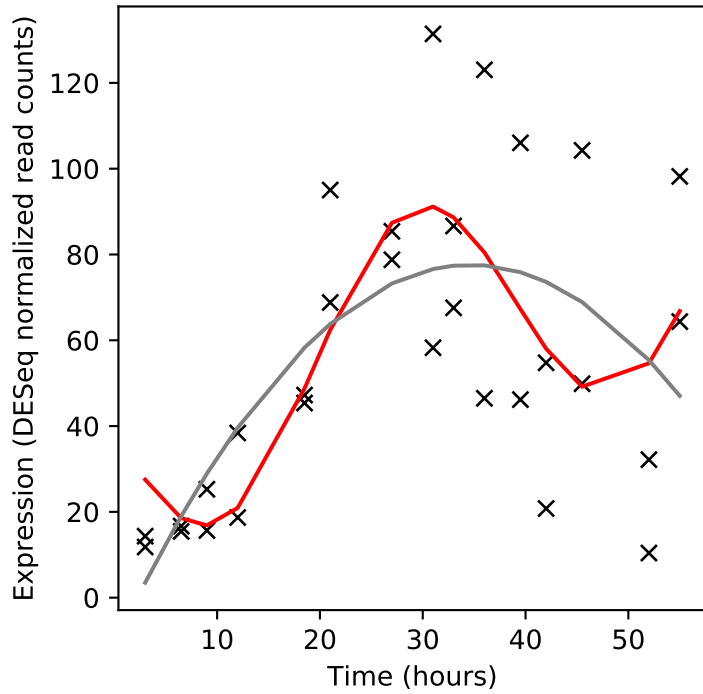
Rv1993c/-



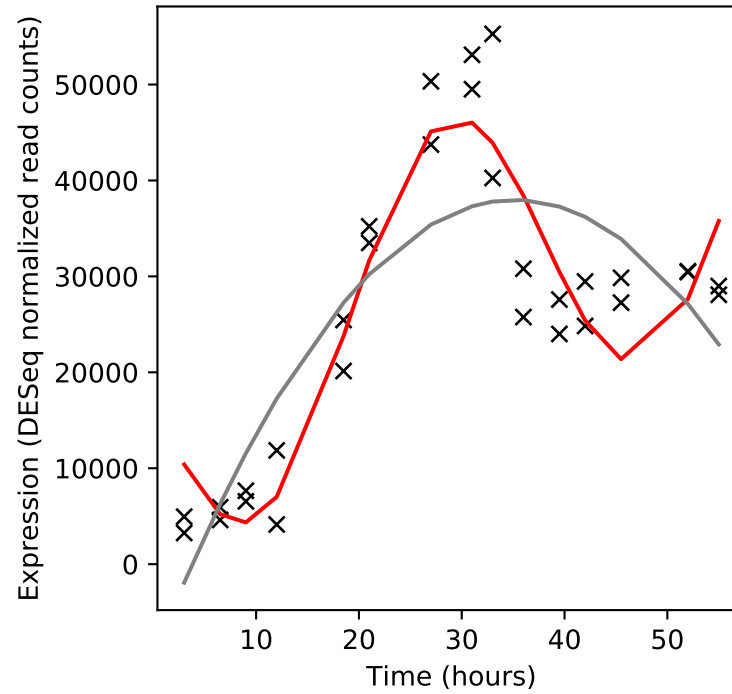
Rv1994c/cmtR



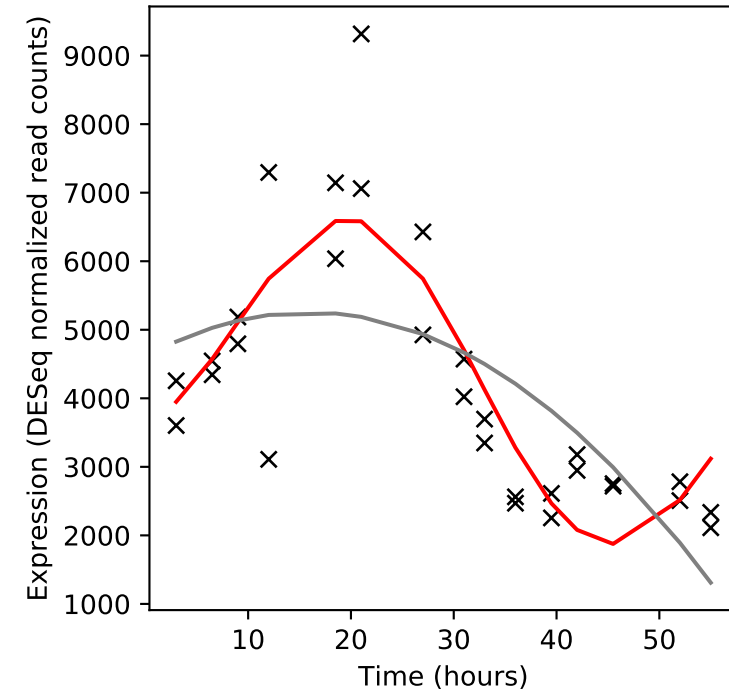
Rv1995/-

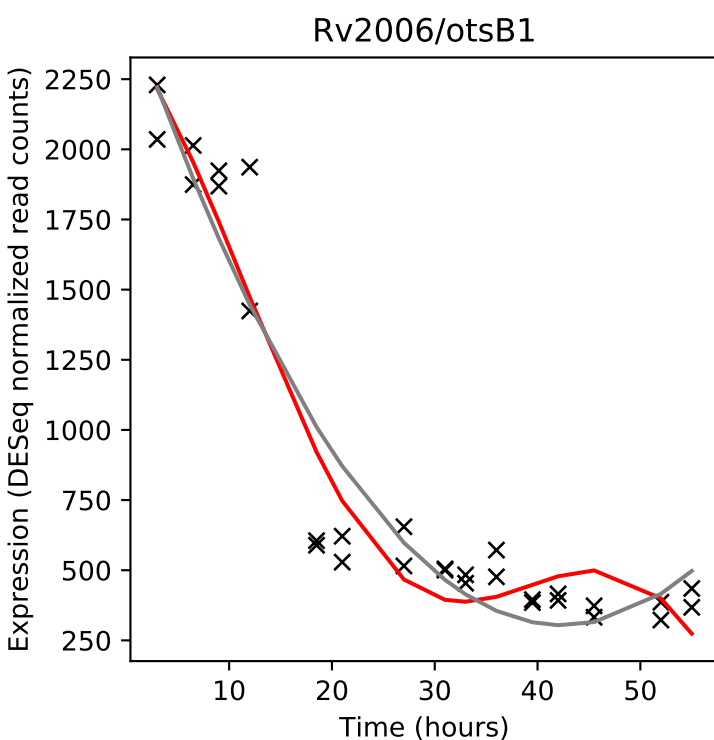
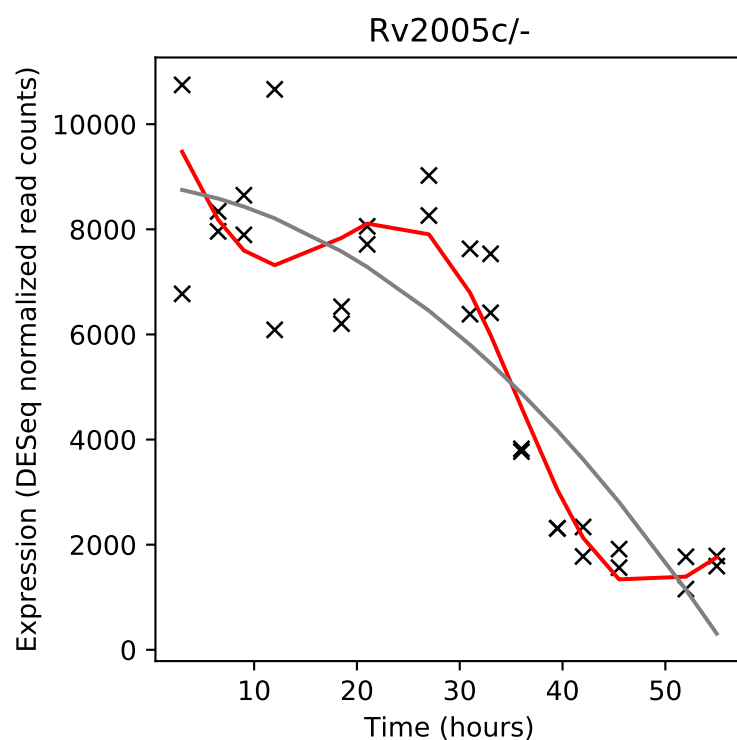
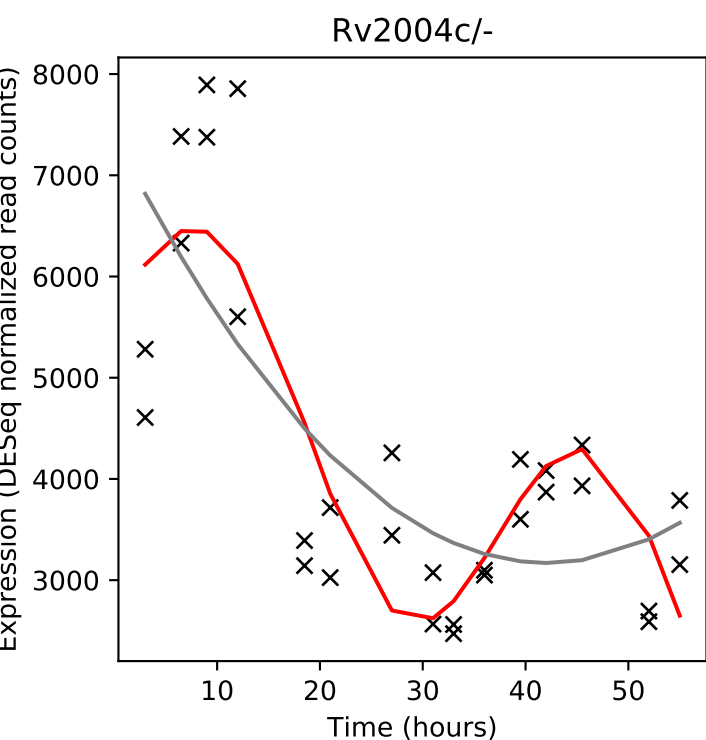
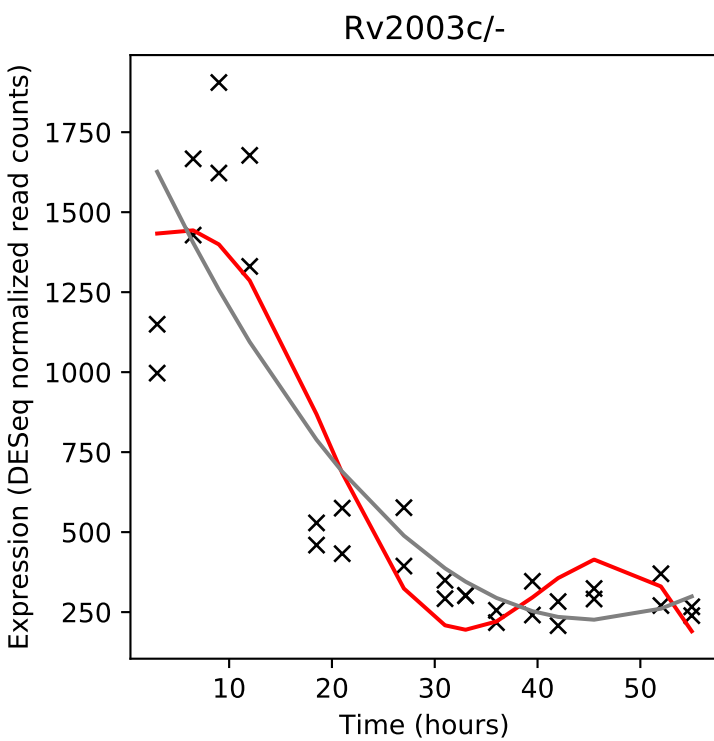
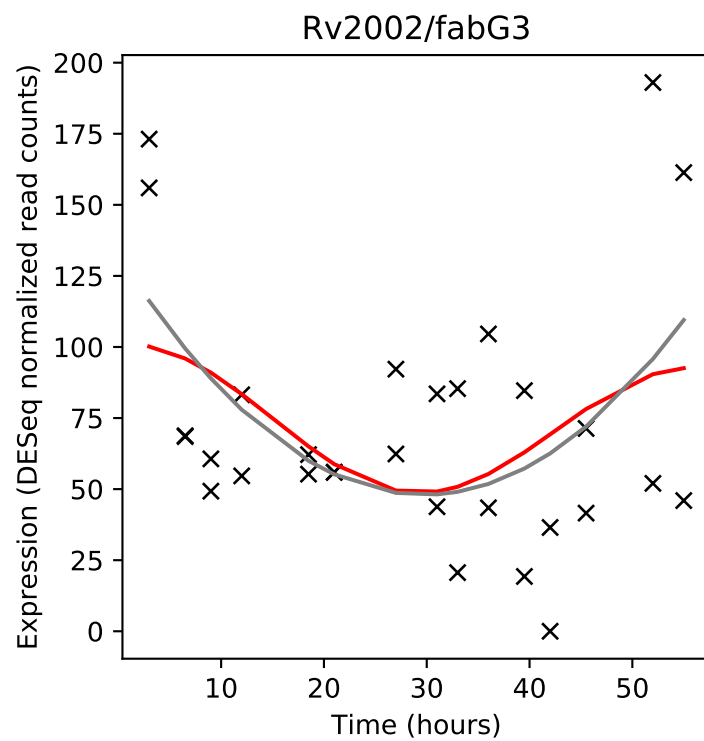
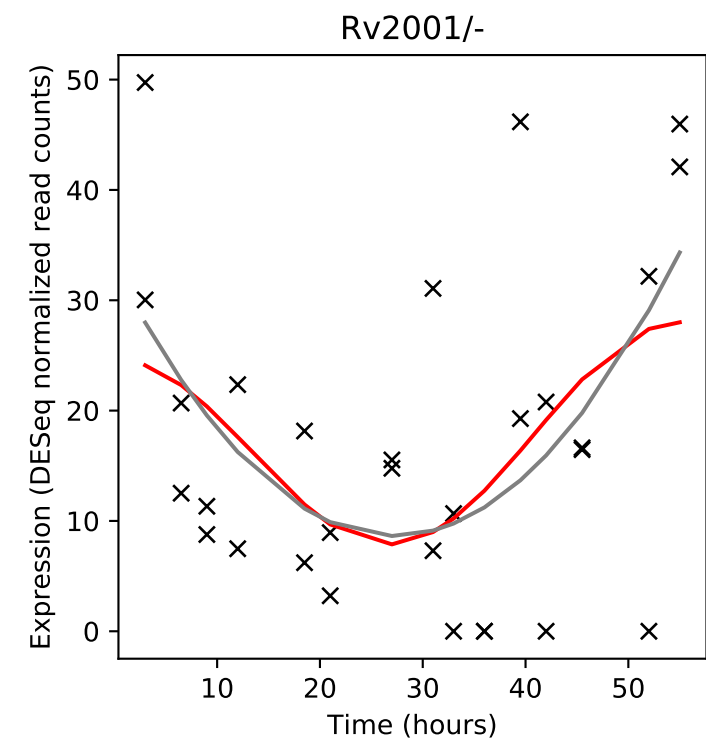
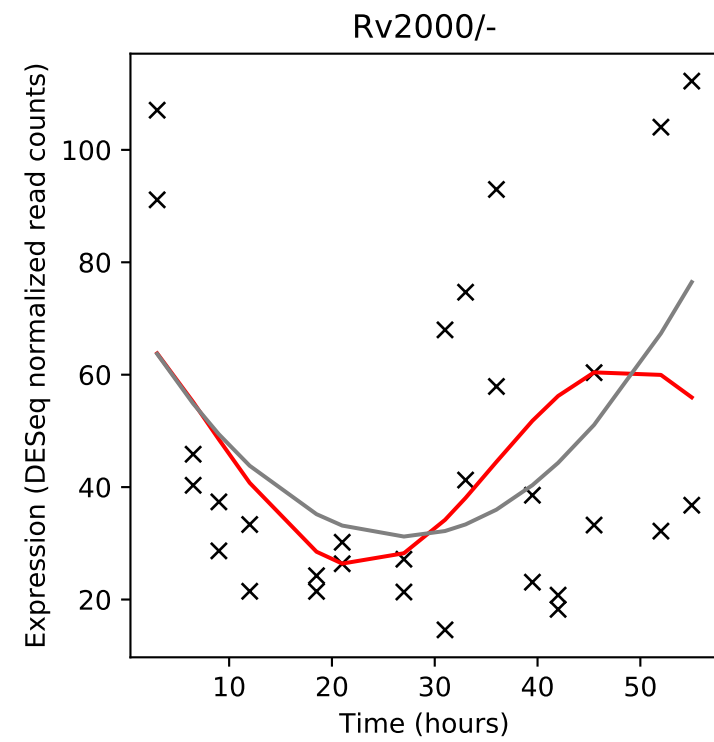
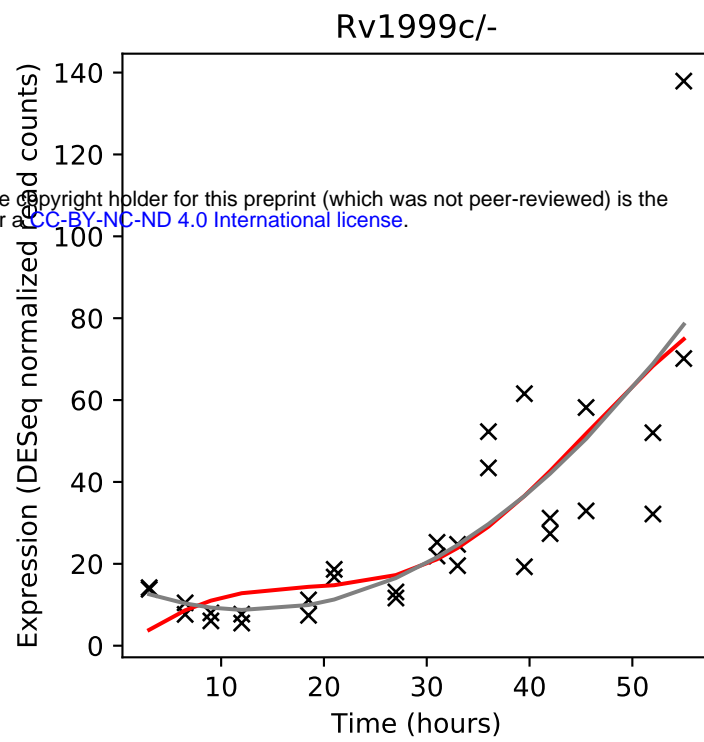
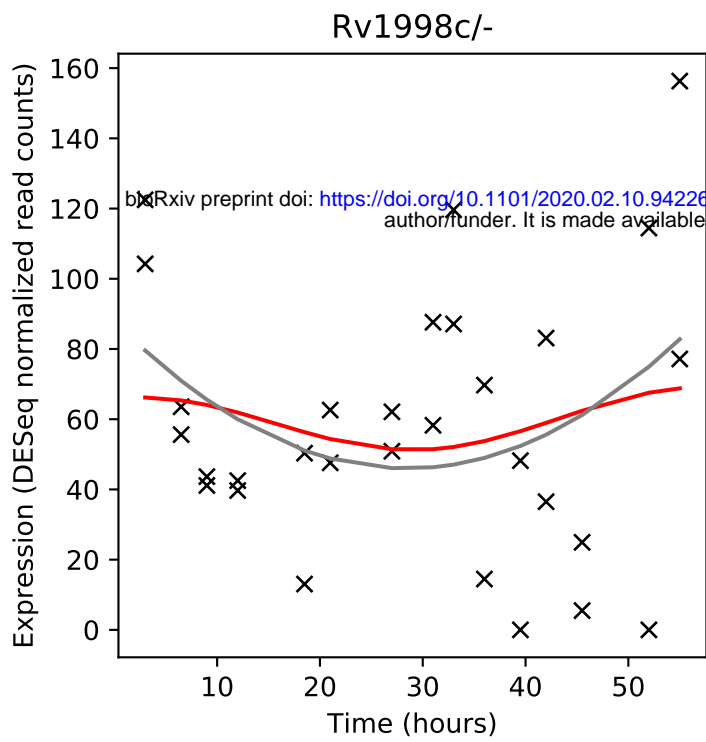


Rv1996/-

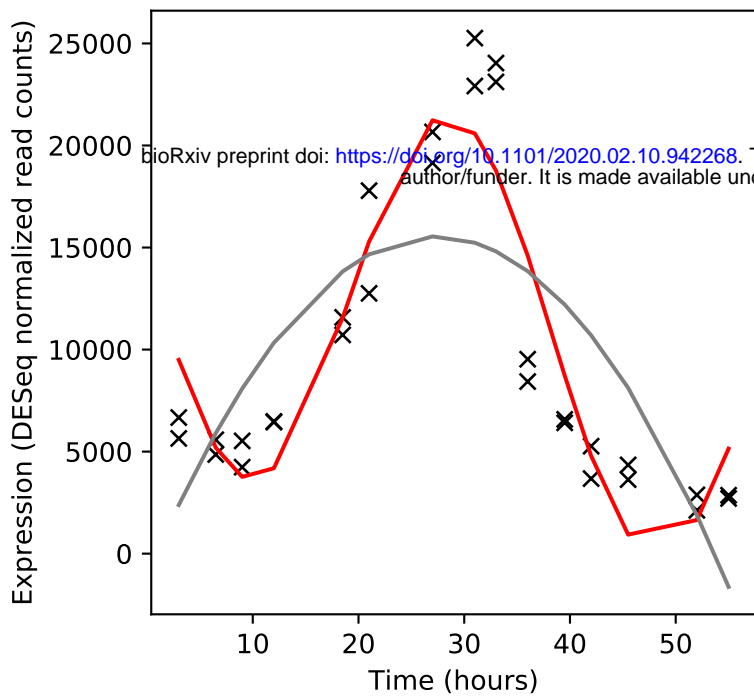


Rv1997/ctpF

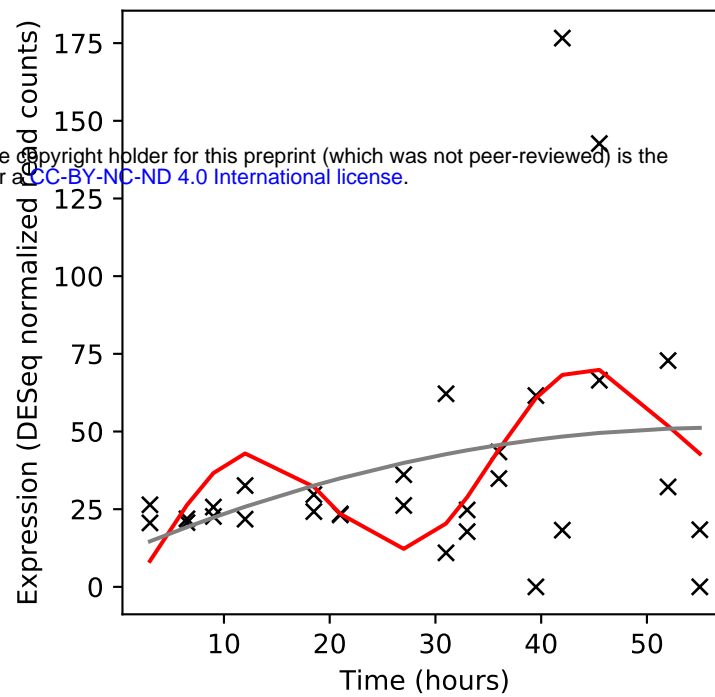




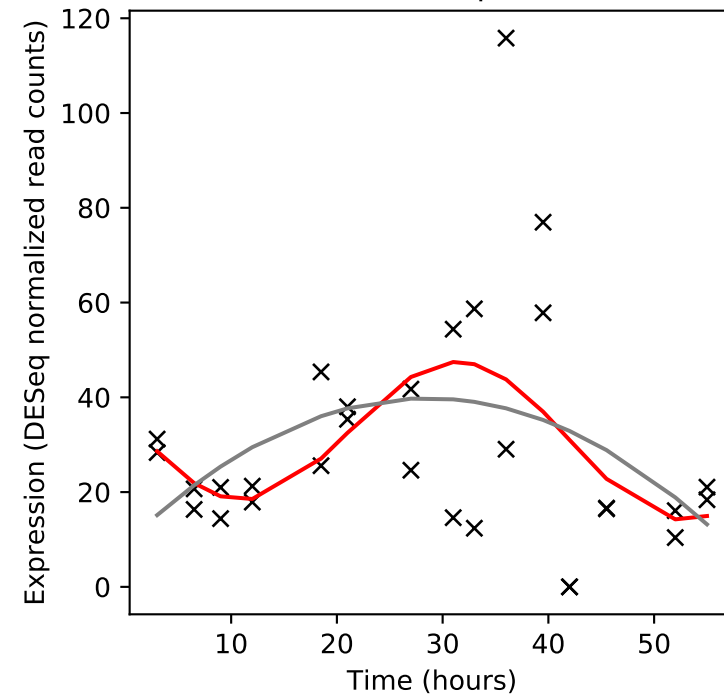
Rv2007c/fdxA



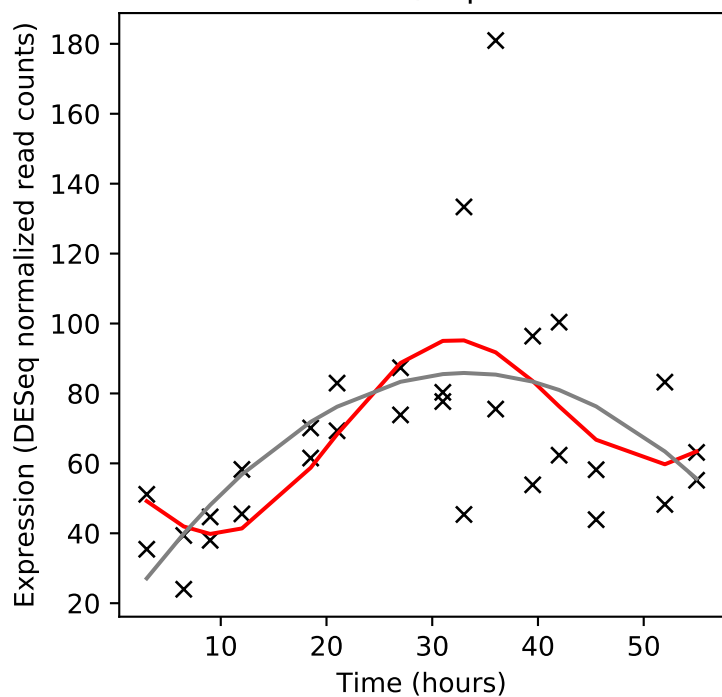
Rv2008c/-



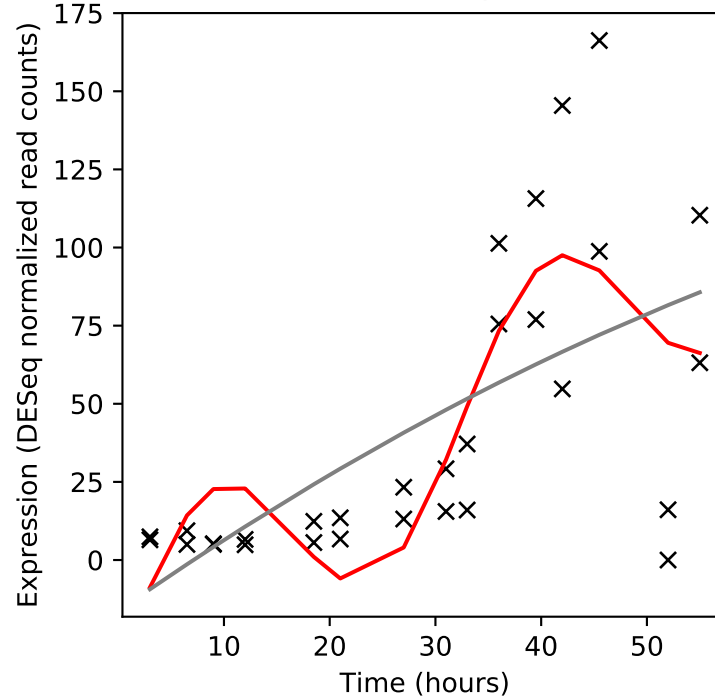
Rv2009/vapB15



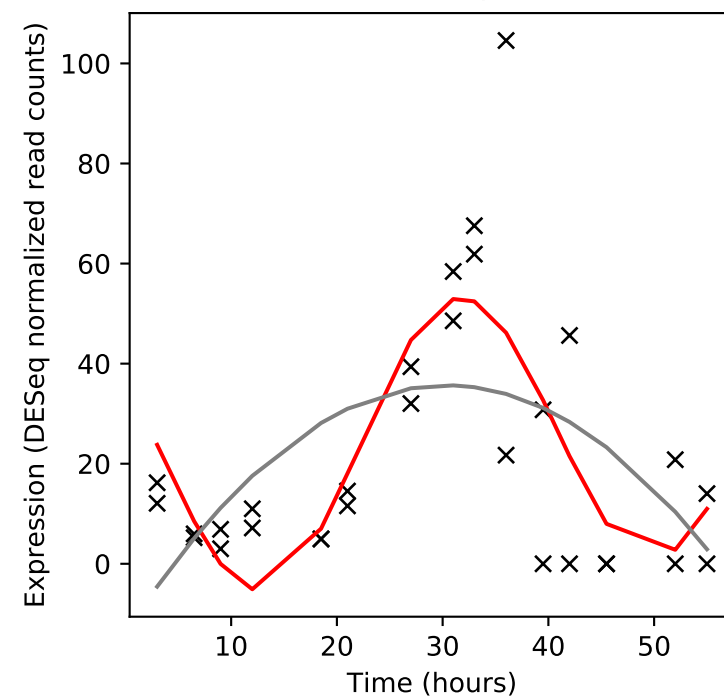
Rv2010/vapC15



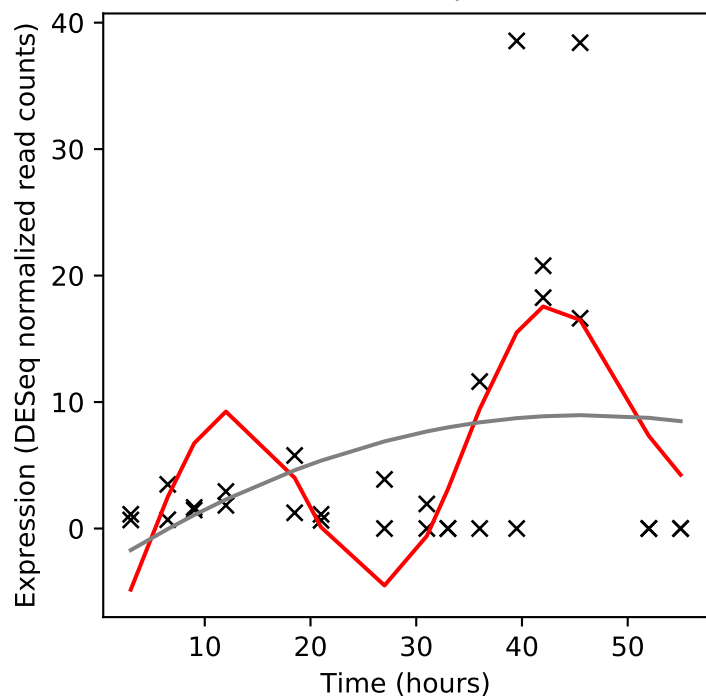
Rv2011c/-



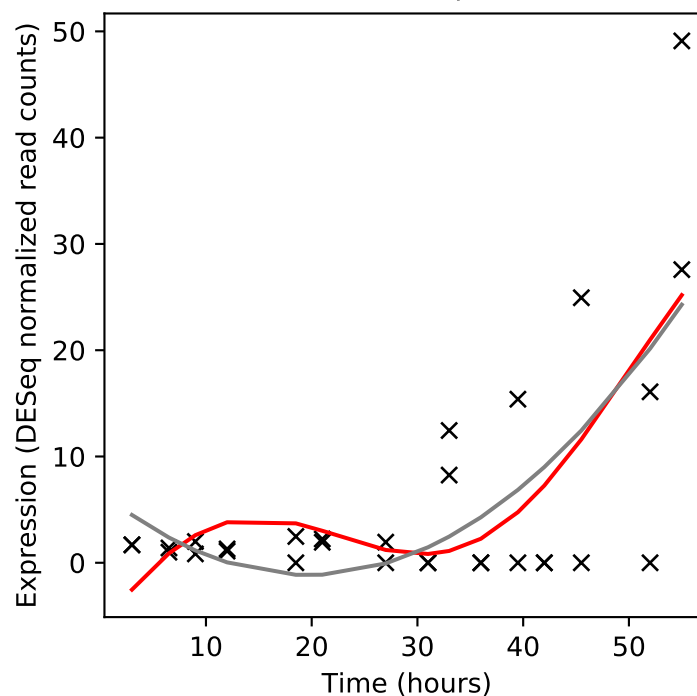
Rv2012/-



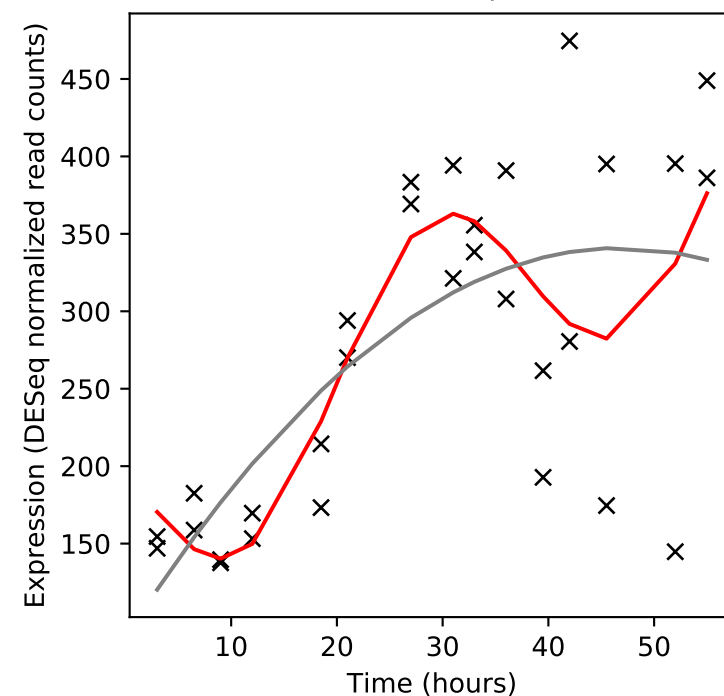
Rv2013/-



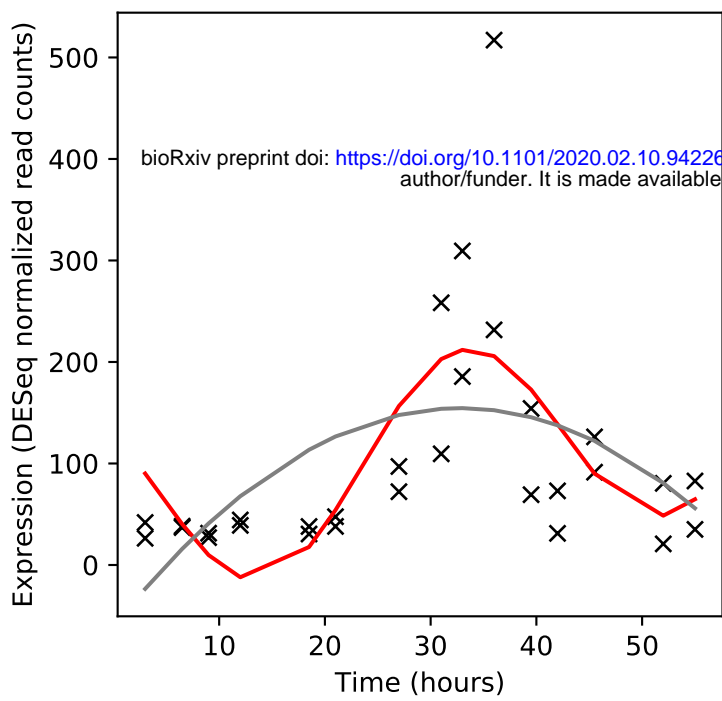
Rv2014/-



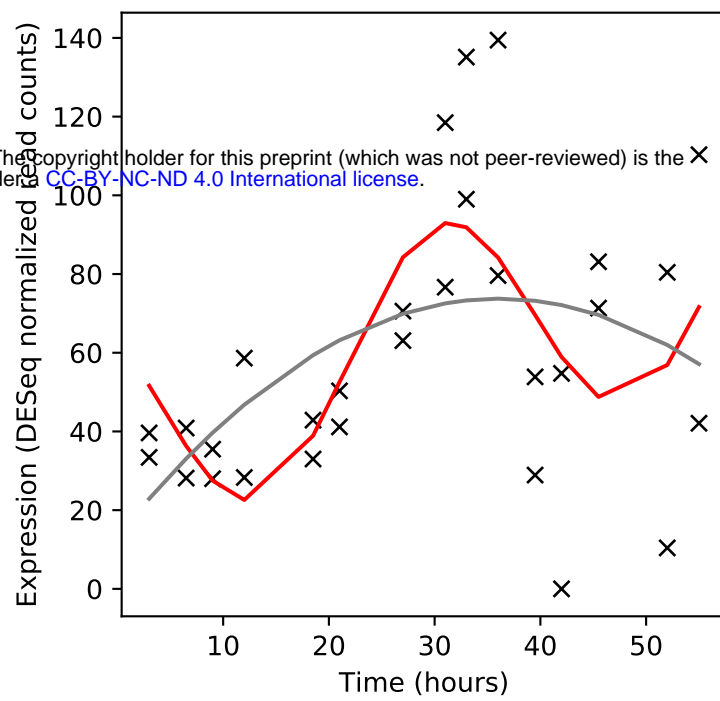
Rv2015c/-



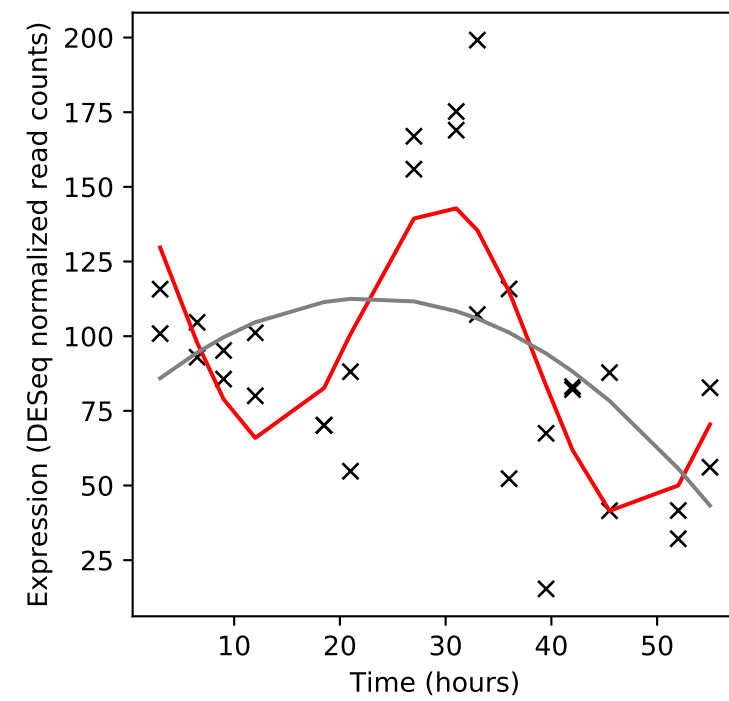
Rv2016/-



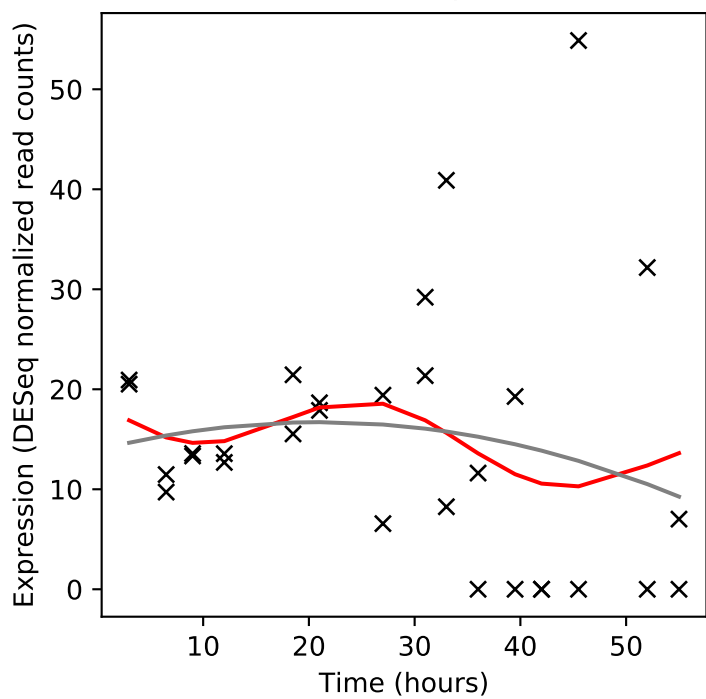
Rv2017/-



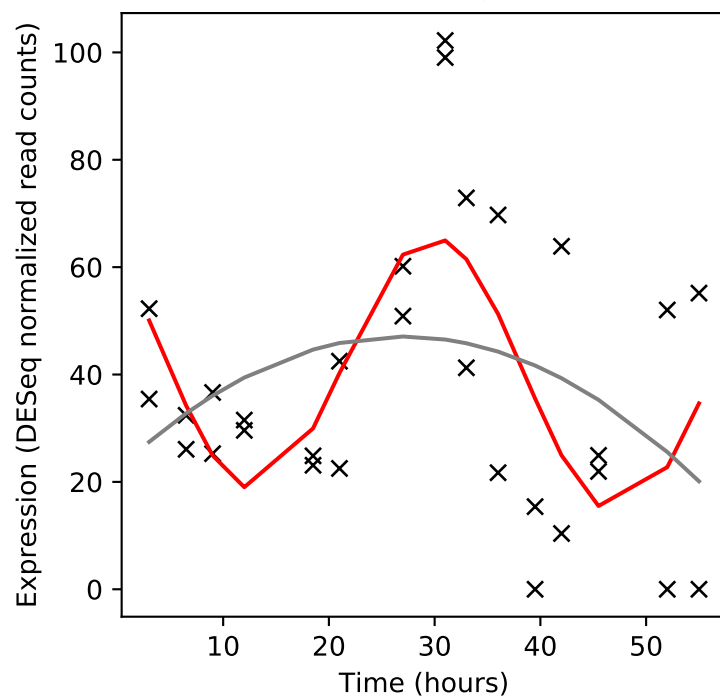
Rv2018/-



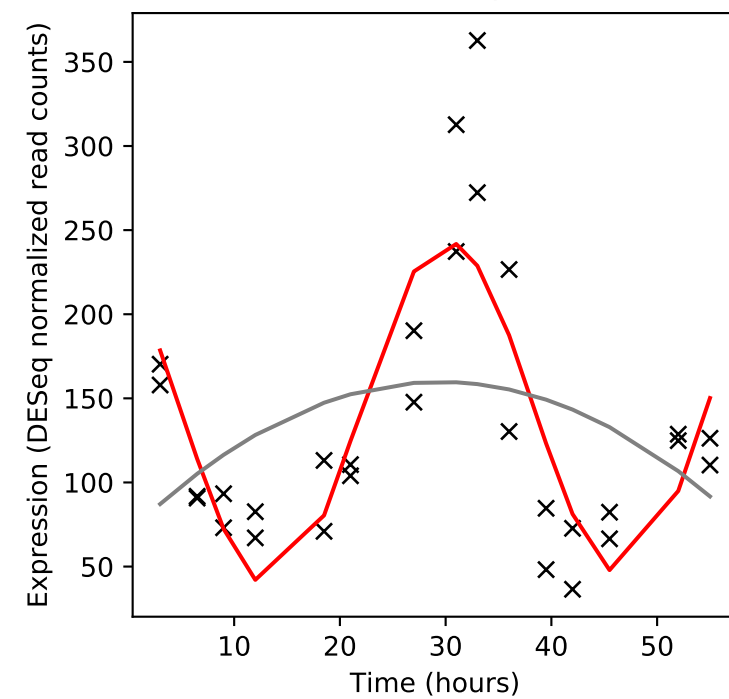
Rv2019/-



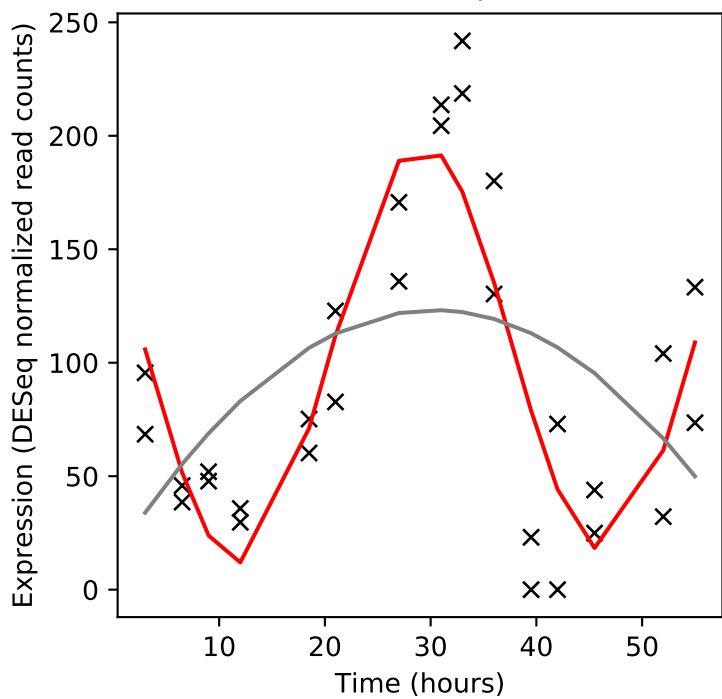
Rv2020c/-



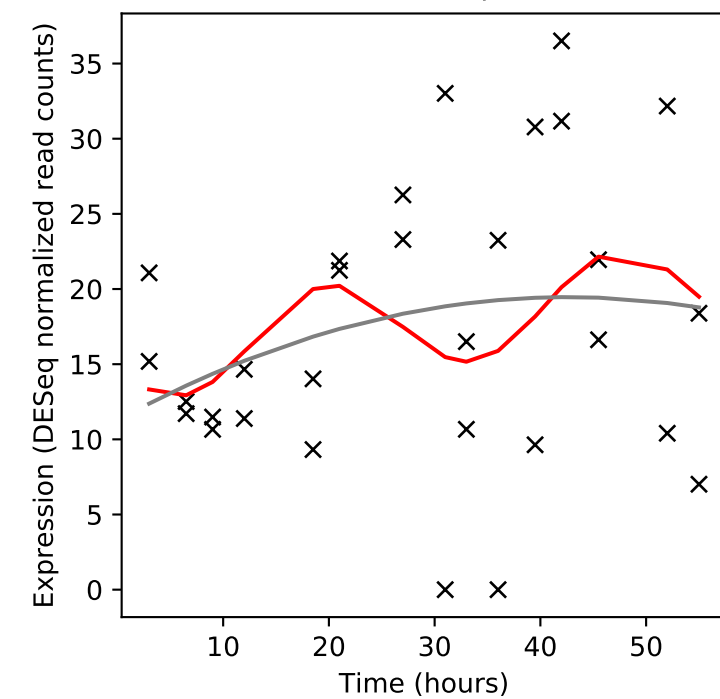
Rv2021c/-



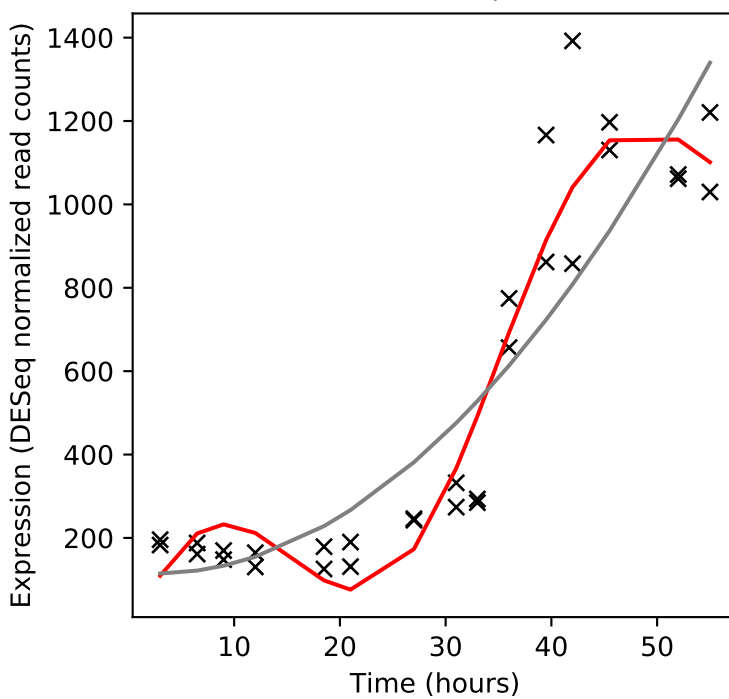
Rv2022c/-



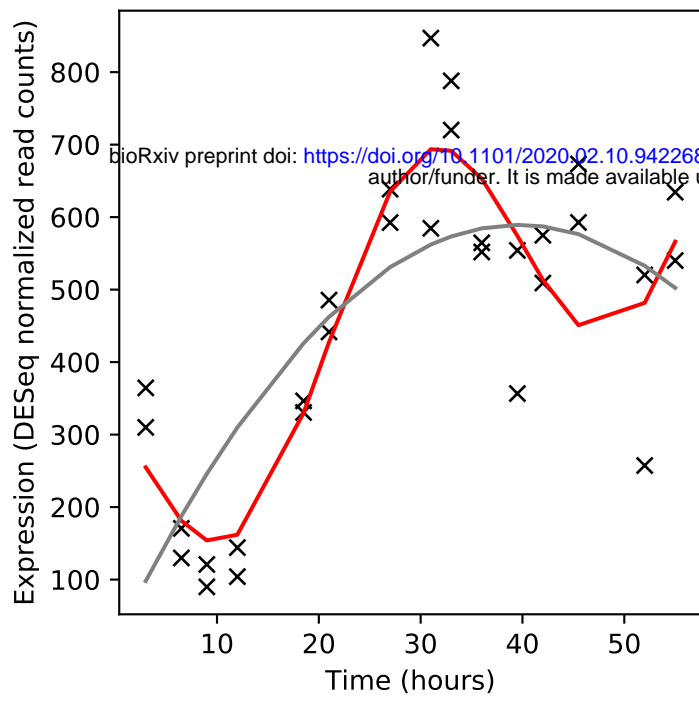
Rv2023c/-



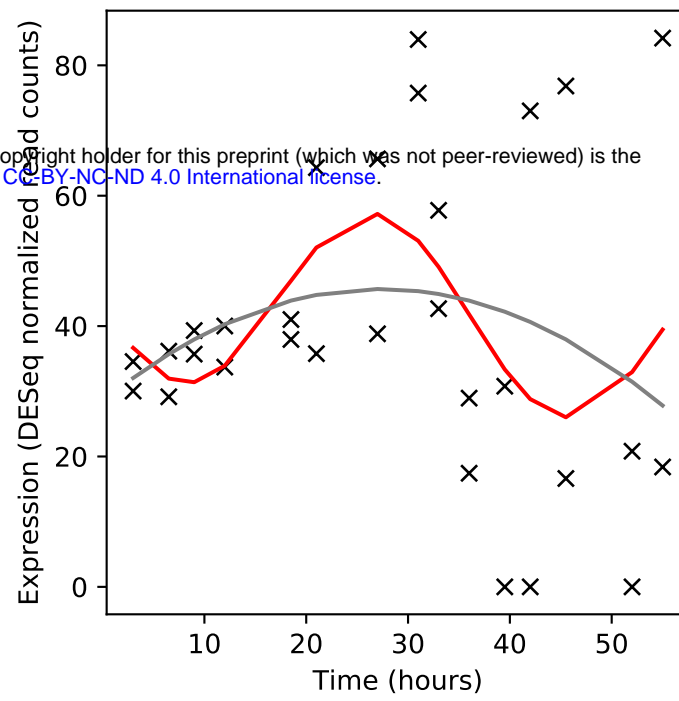
Rv2024c/-



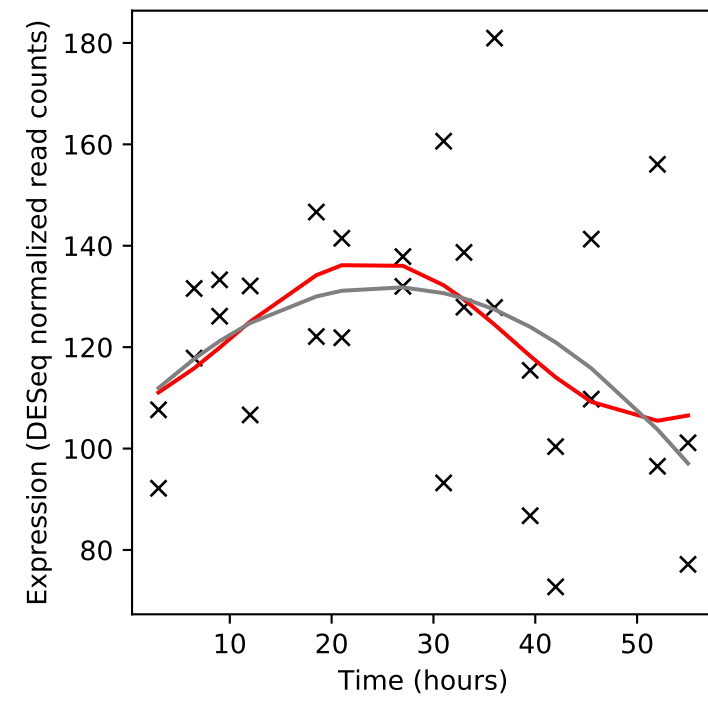
Rv2025c/-



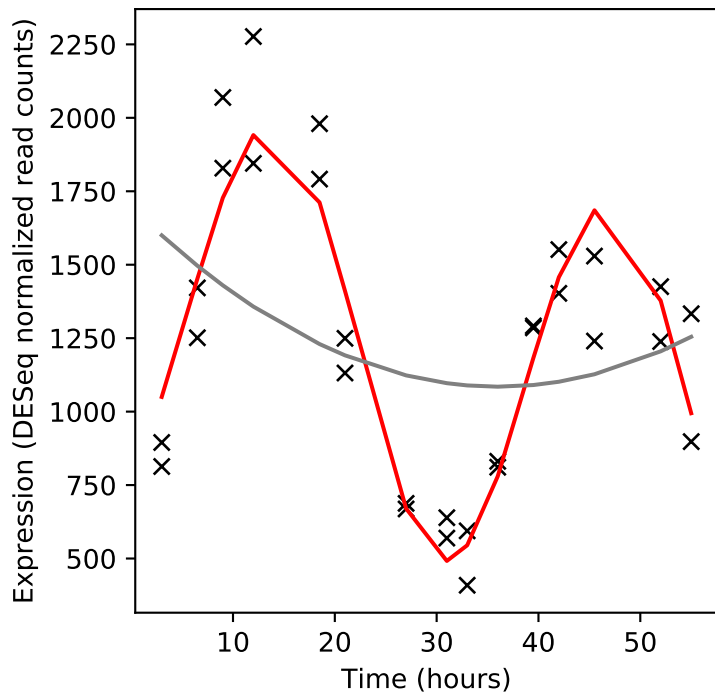
Rv2026c/-



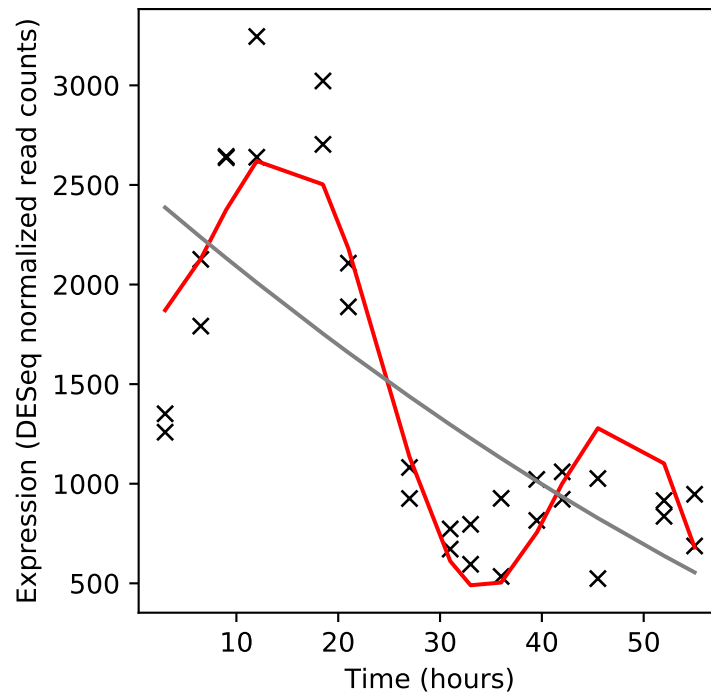
Rv2027c/dosT



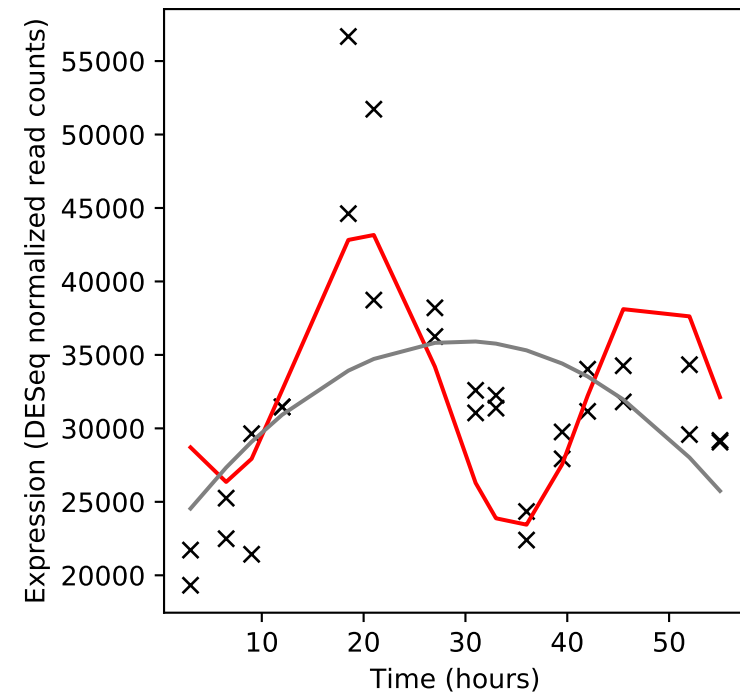
Rv2028c/-



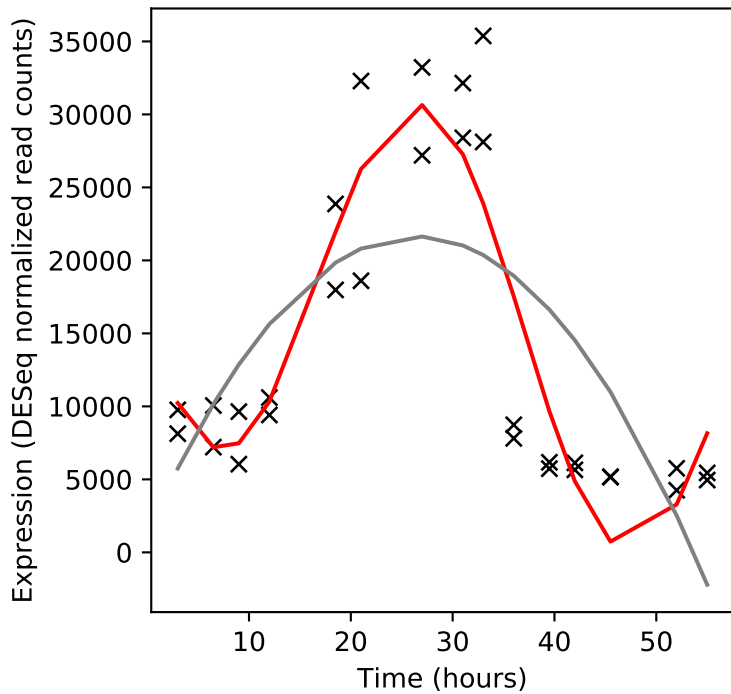
Rv2029c/pfkB



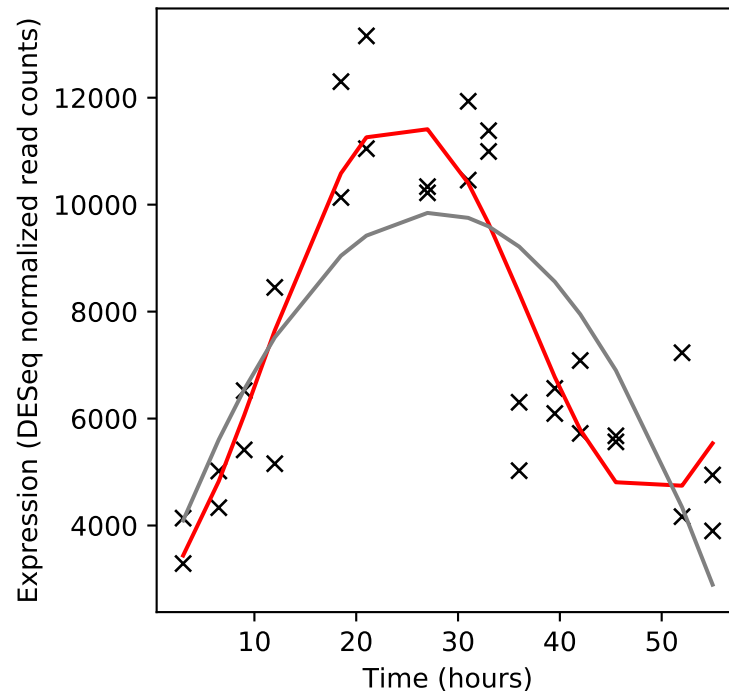
Rv2030c/-



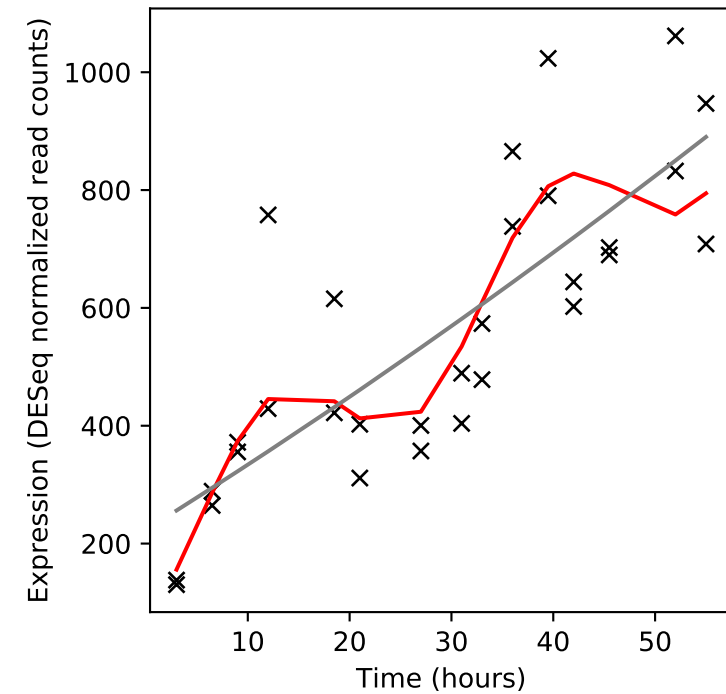
Rv2031c/hspX



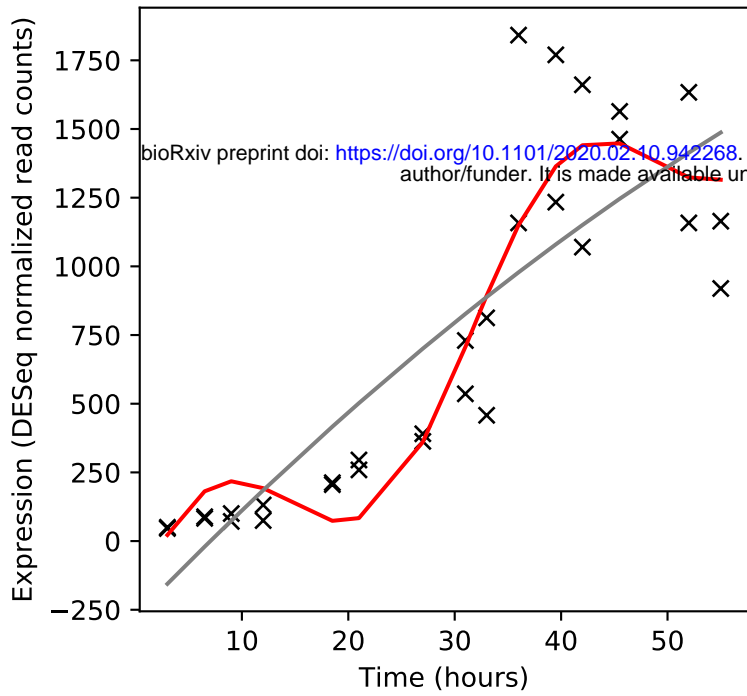
Rv2032/acg



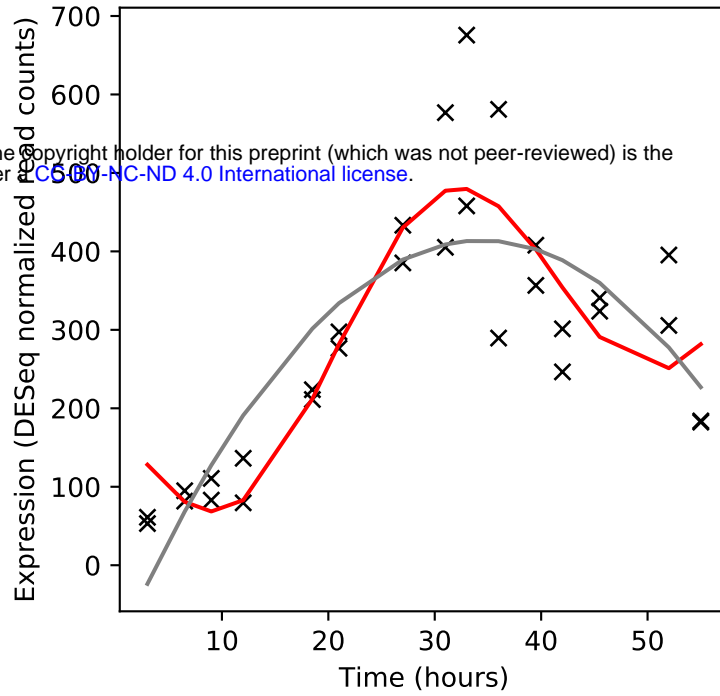
Rv2033c/-



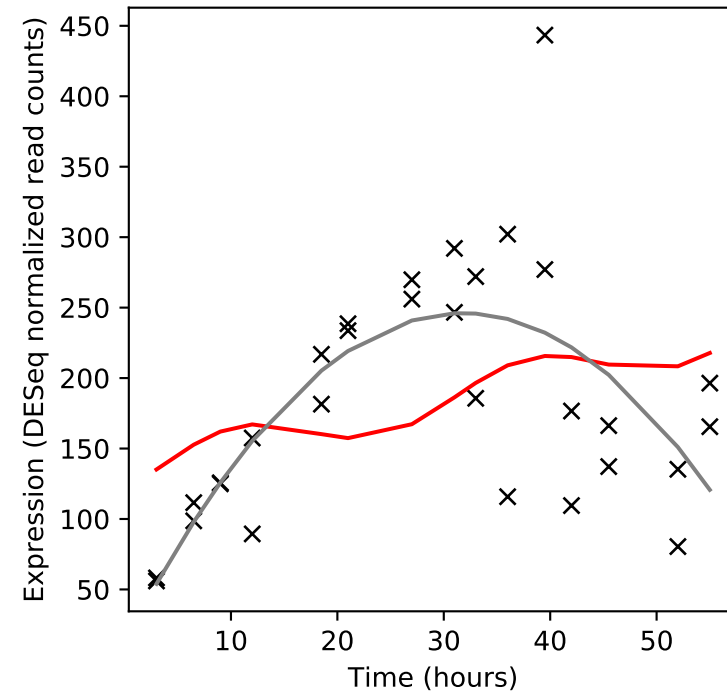
Rv2034/-



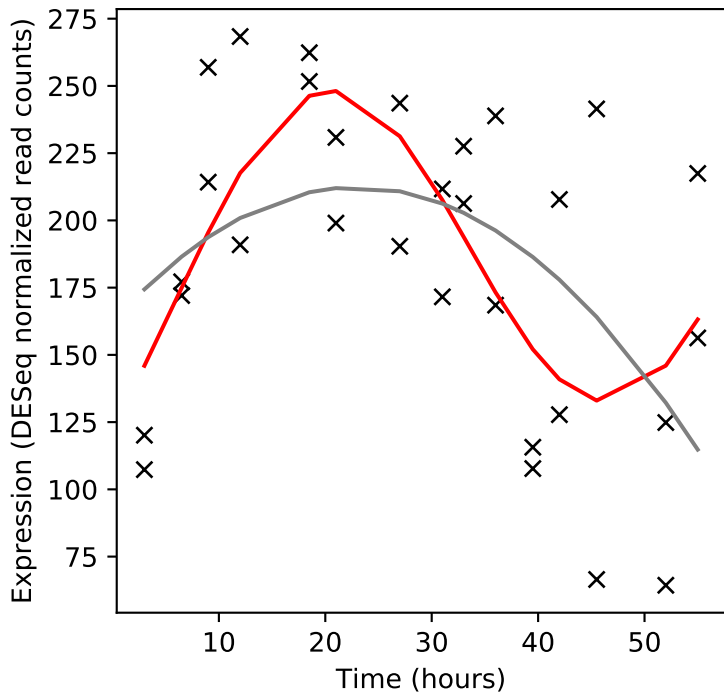
Rv2035/-



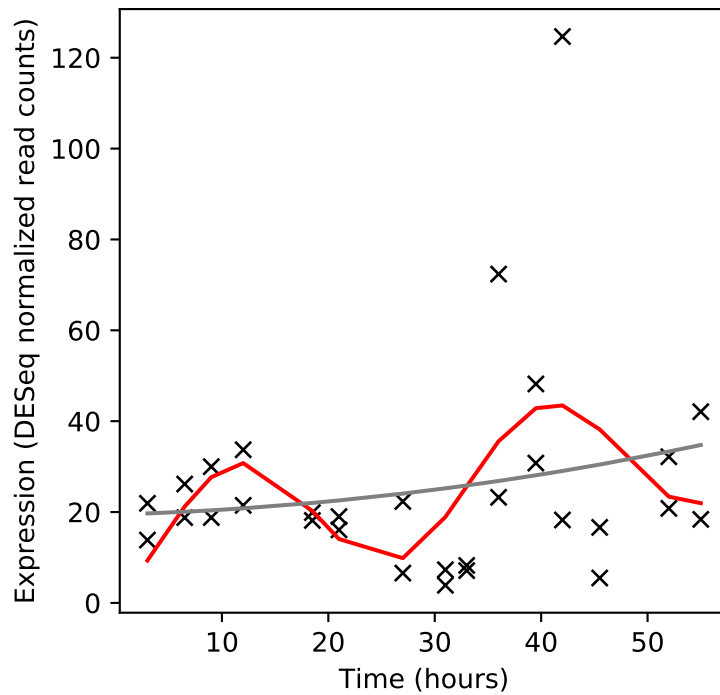
Rv2036/-



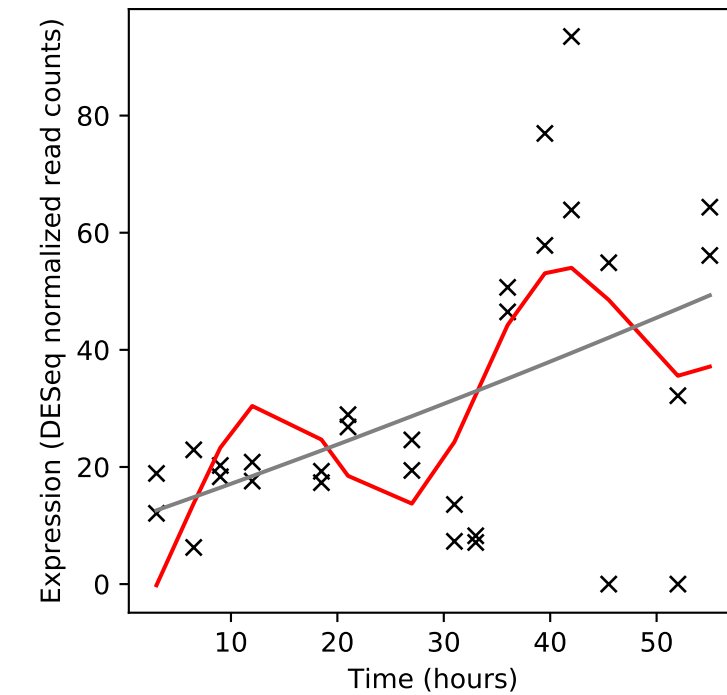
Rv2037c/-



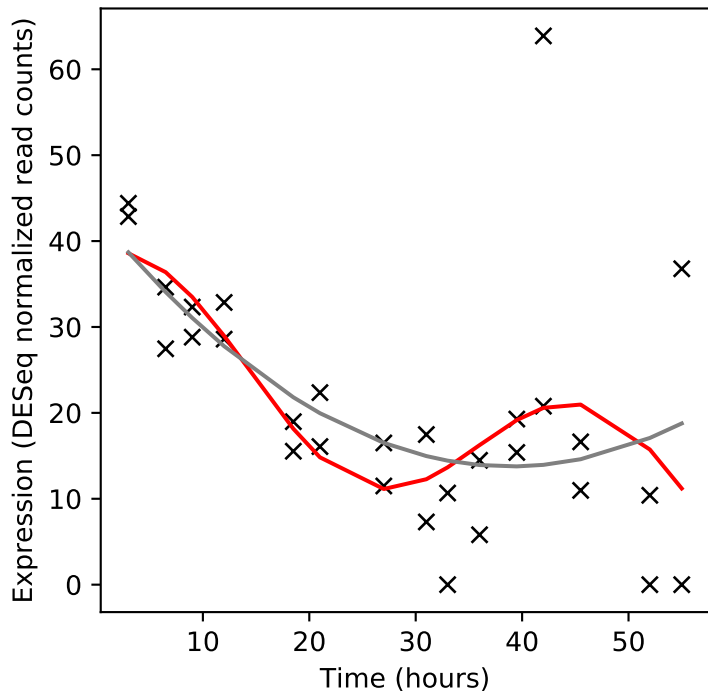
Rv2038c/-



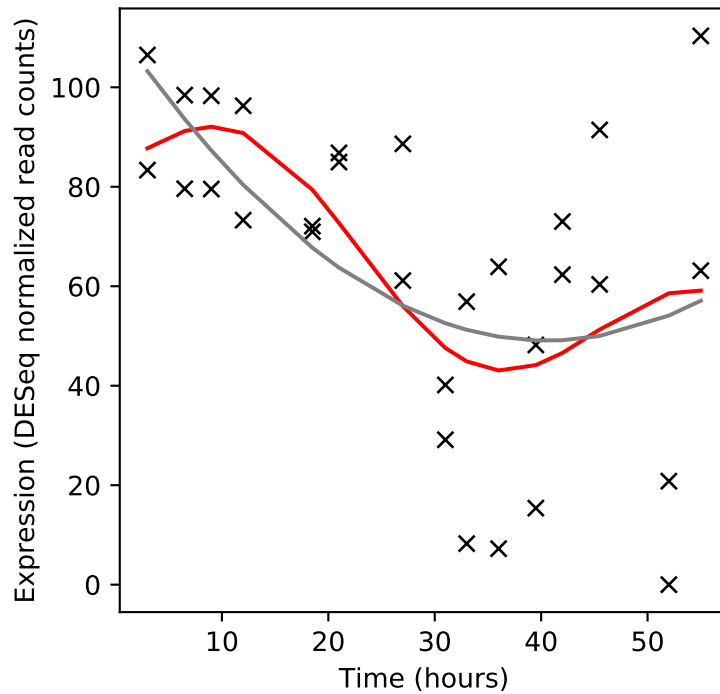
Rv2039c/-



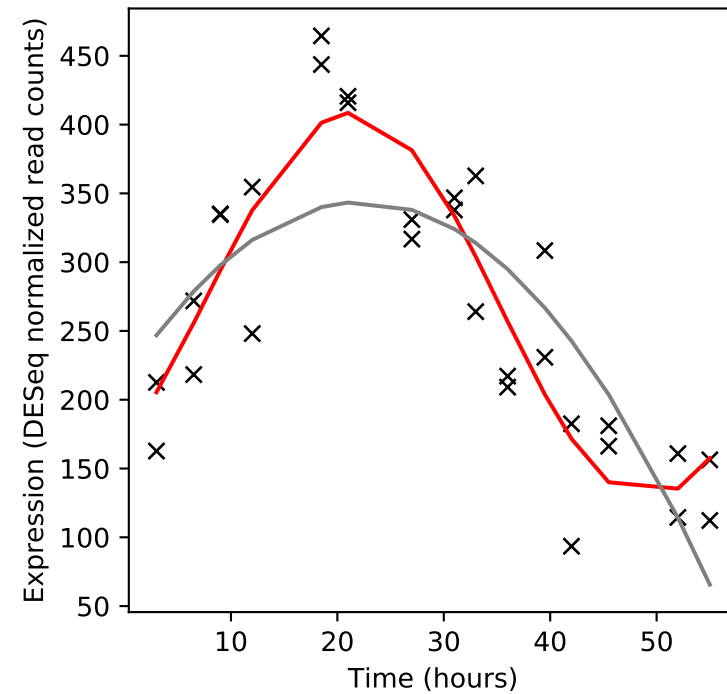
Rv2040c/-



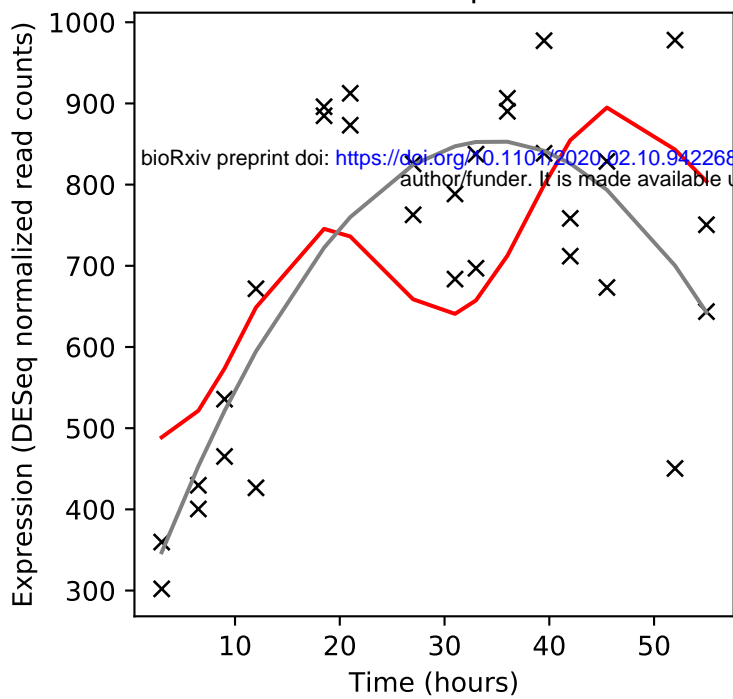
Rv2041c/-



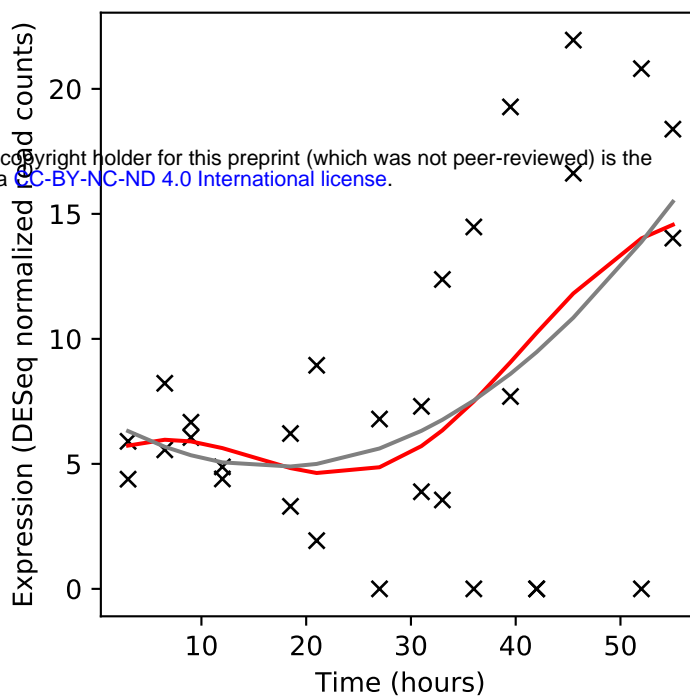
Rv2042c/-



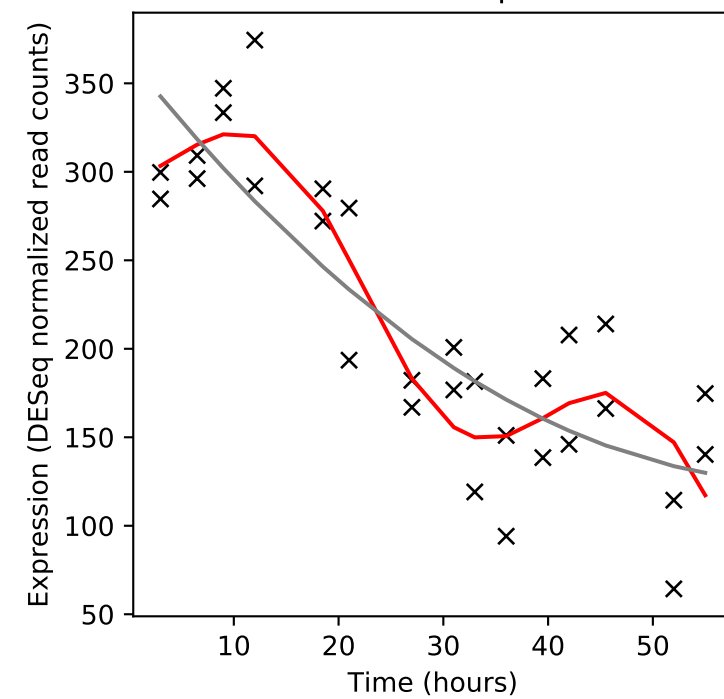
Rv2043c/pncA



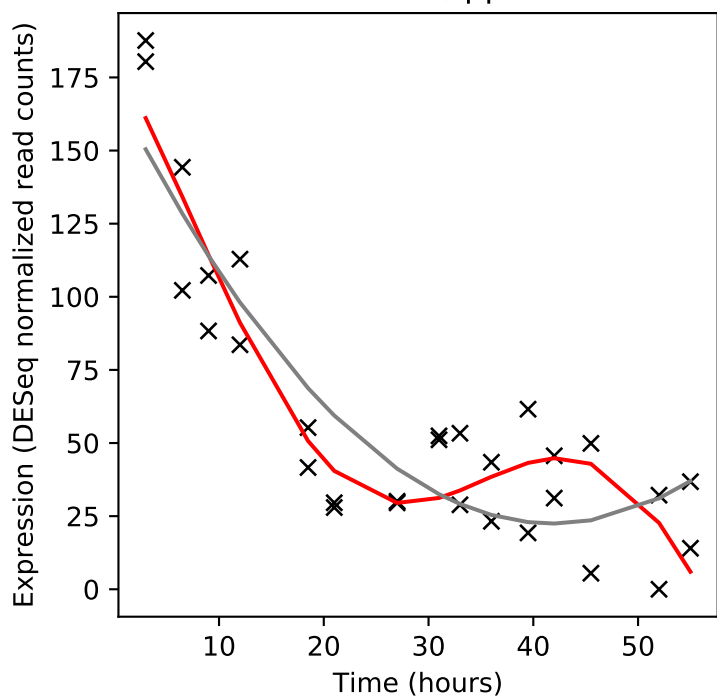
Rv2044c/-



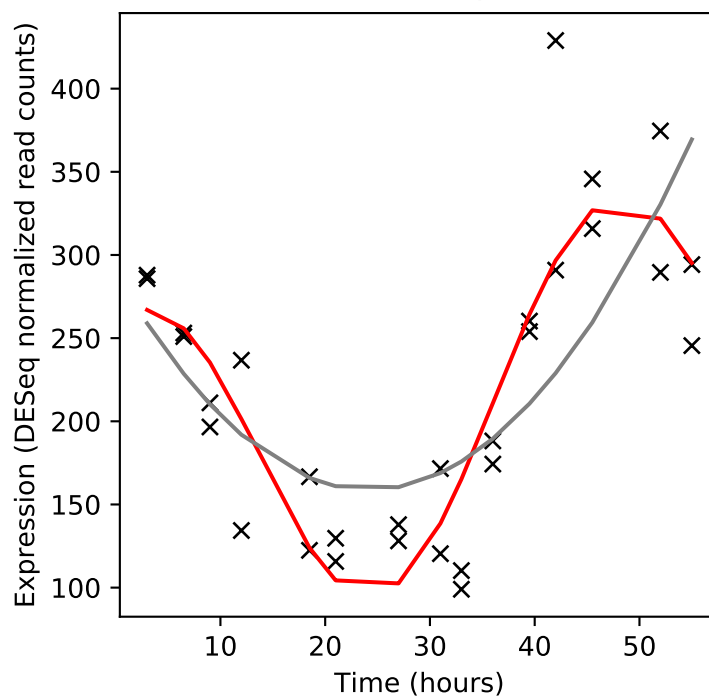
Rv2045c/lipT



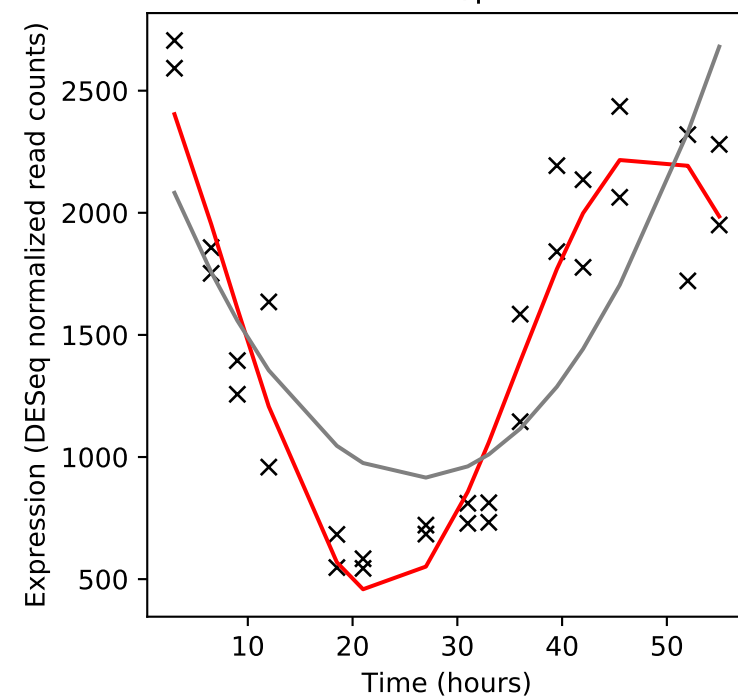
Rv2046/lppl



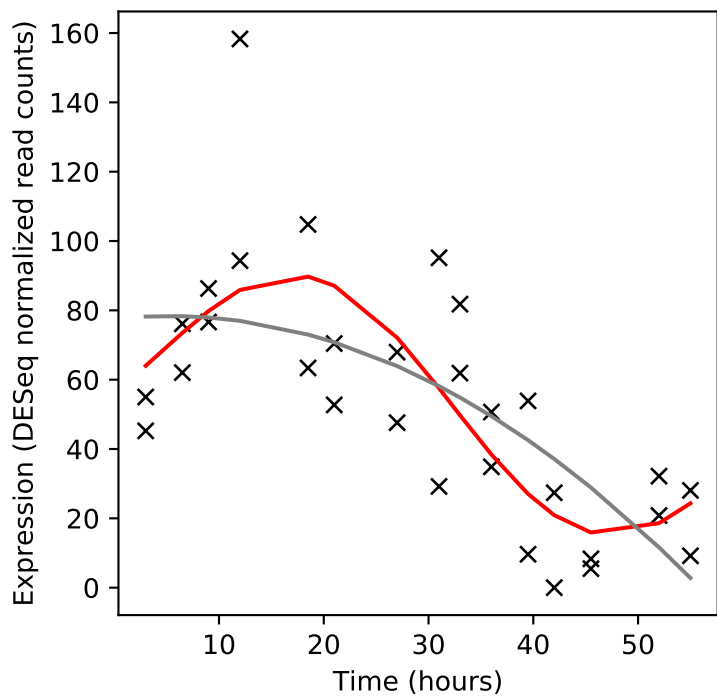
Rv2047c/-



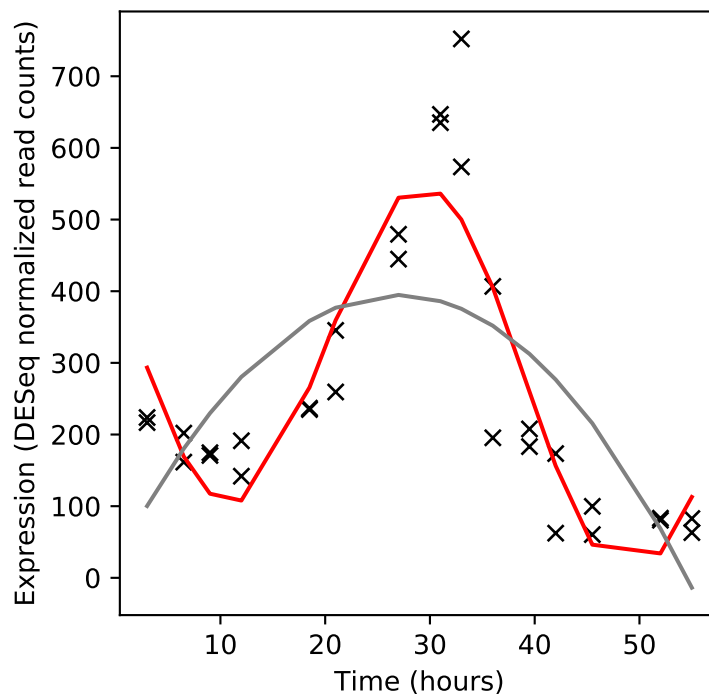
Rv2048c/pks12



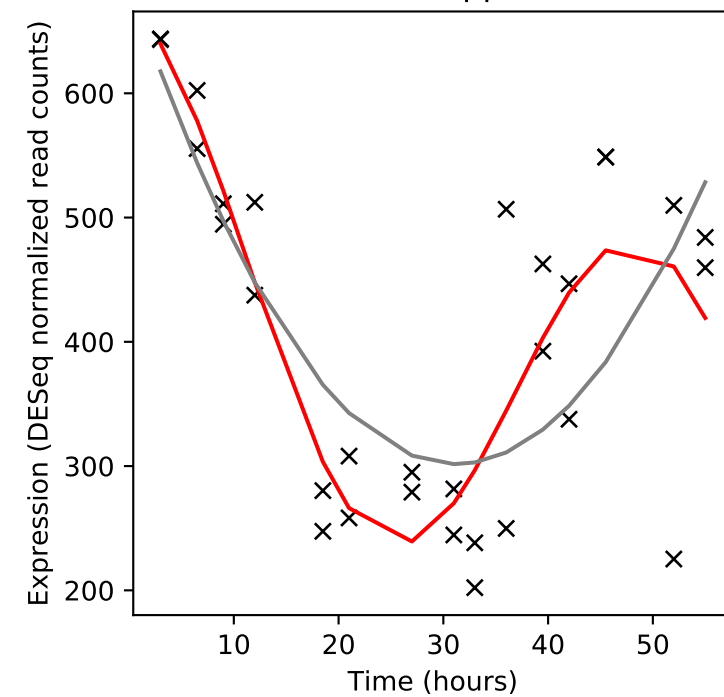
Rv2049c/-



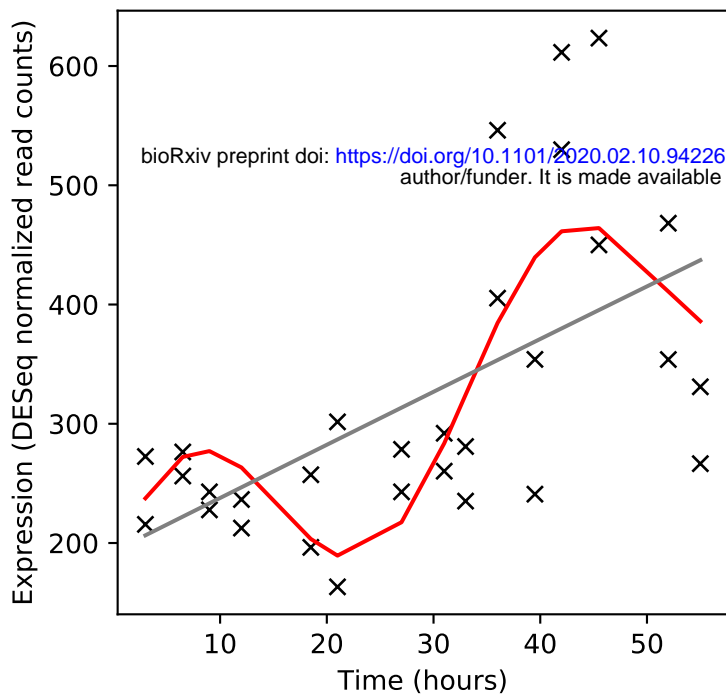
Rv2050/-



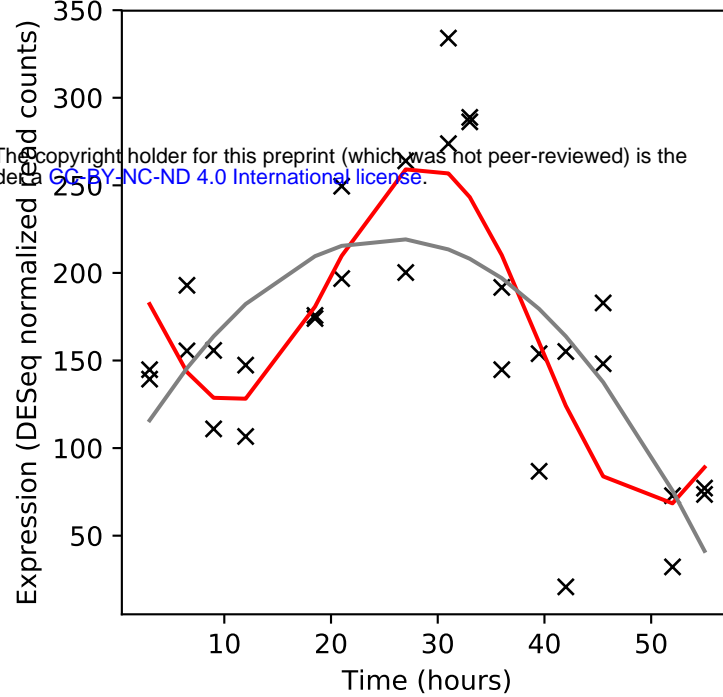
Rv2051c/ppm1



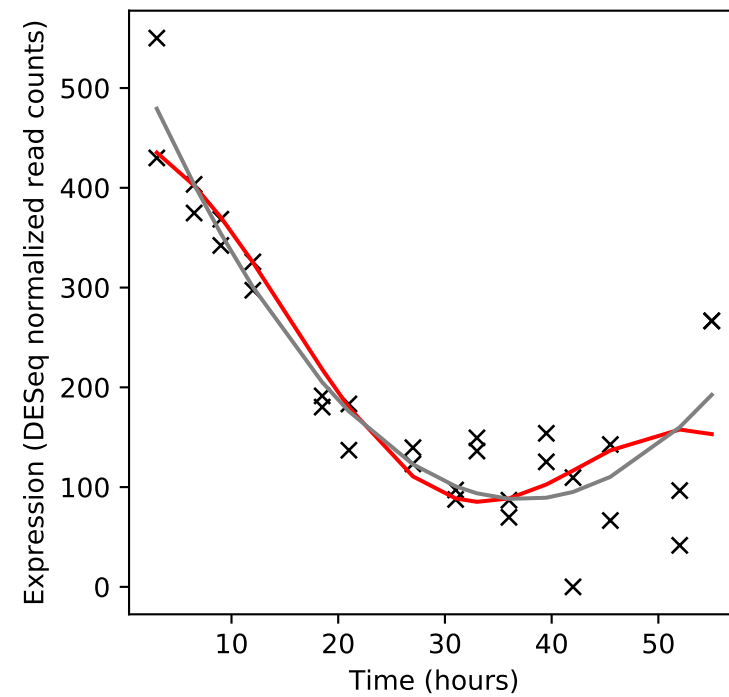
Rv2052c/-



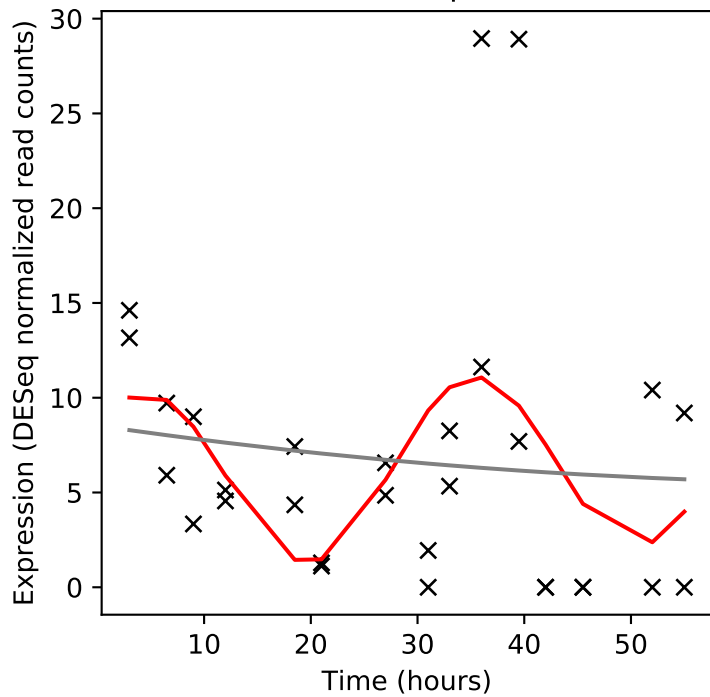
Rv2053c/fxsA



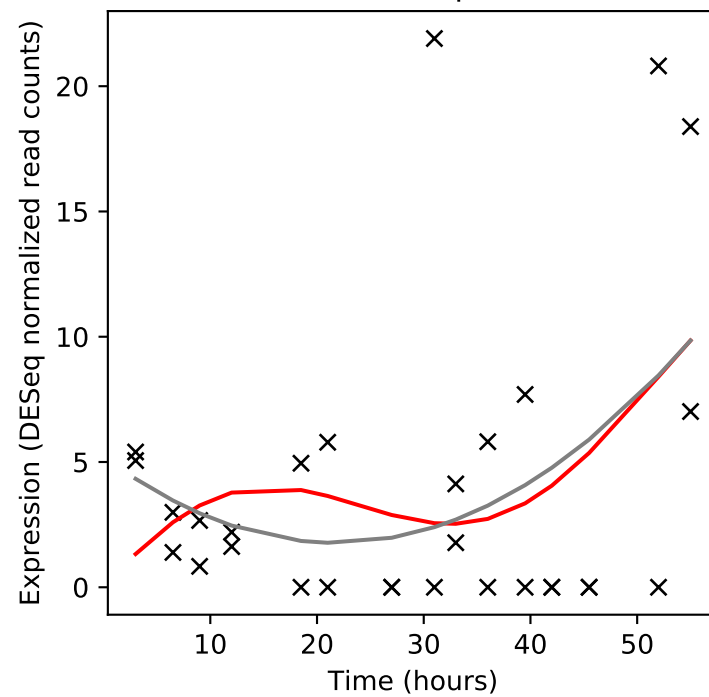
Rv2054/-



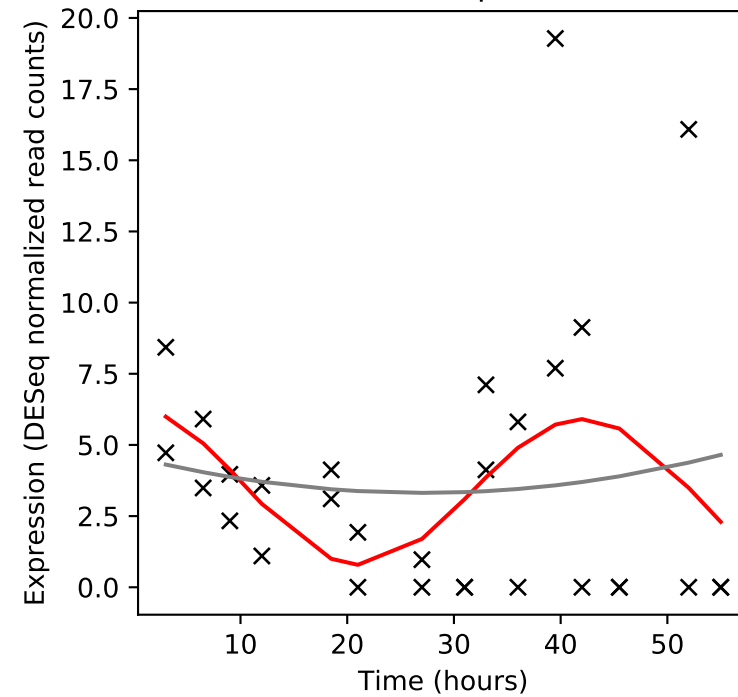
Rv2055c/rpsR2



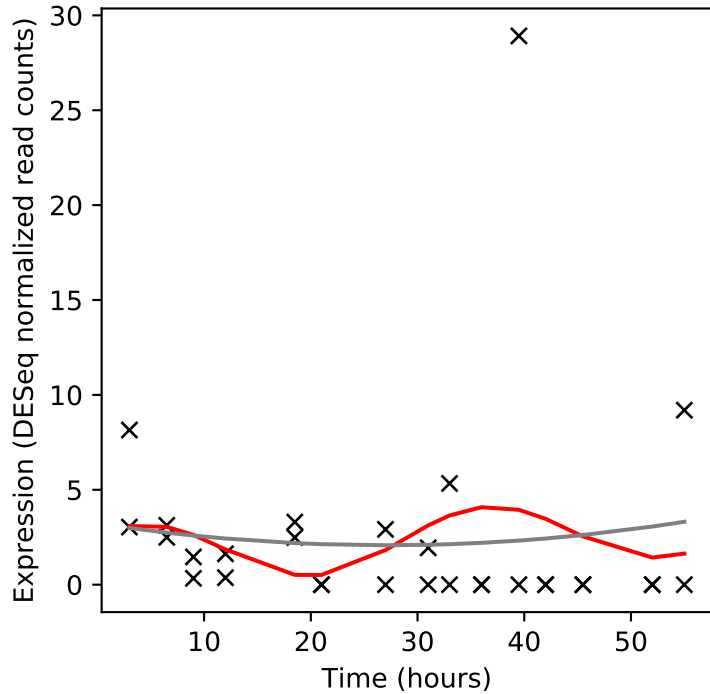
Rv2056c/rpsN2



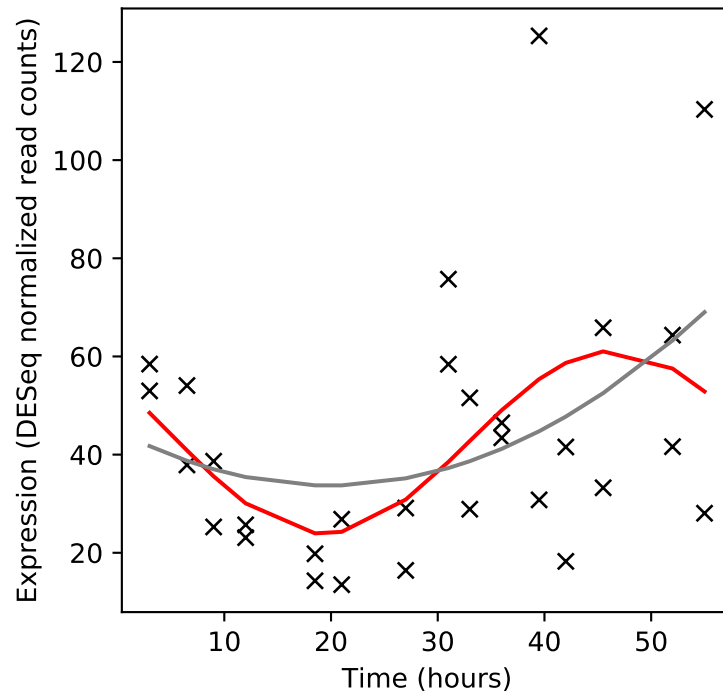
Rv2057c/rpmG1



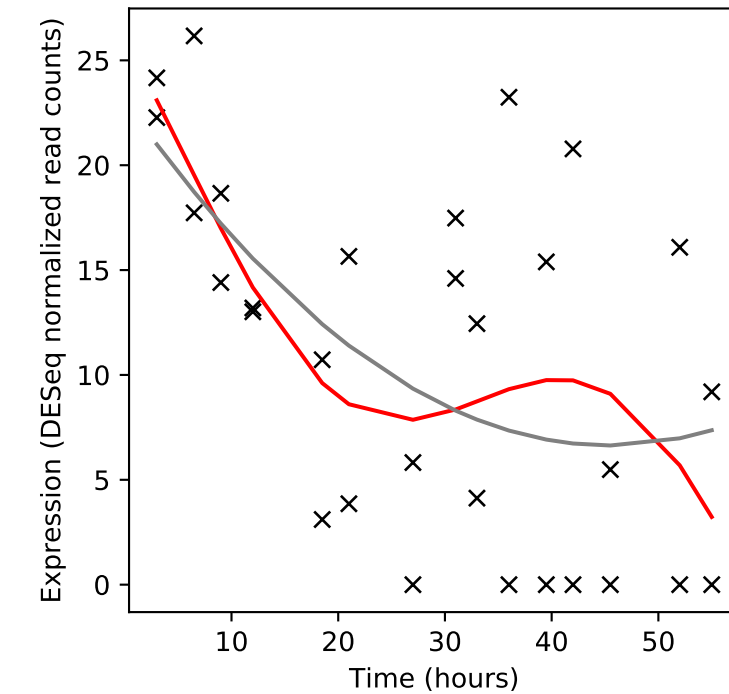
Rv2058c/rpmB2



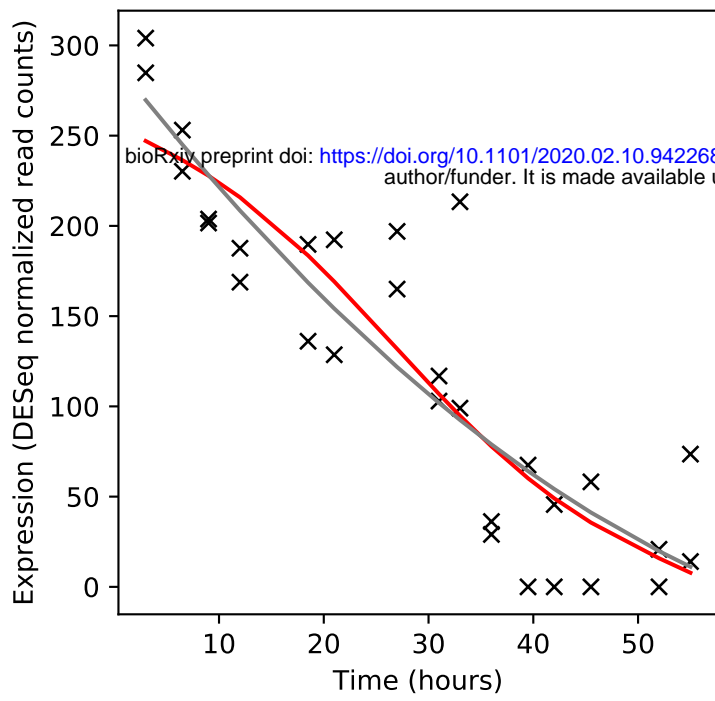
Rv2059/-



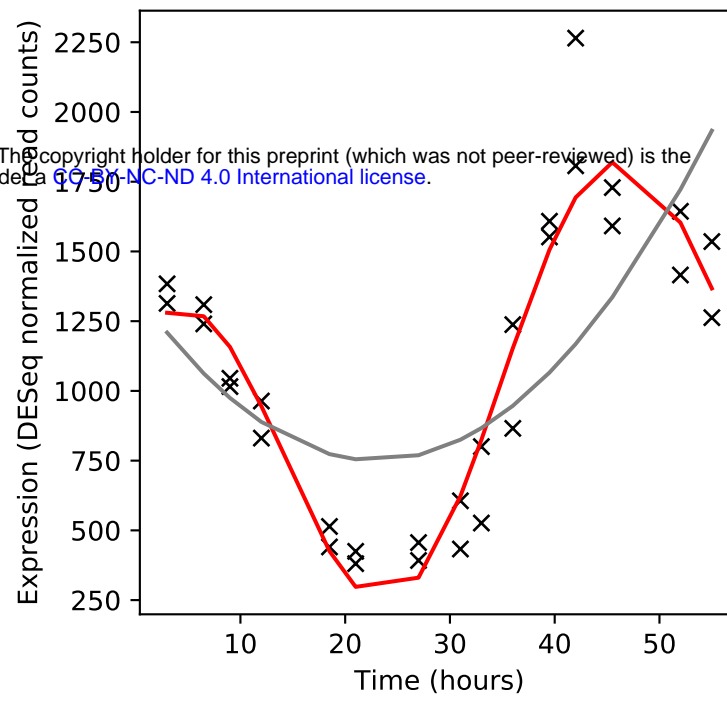
Rv2060/-



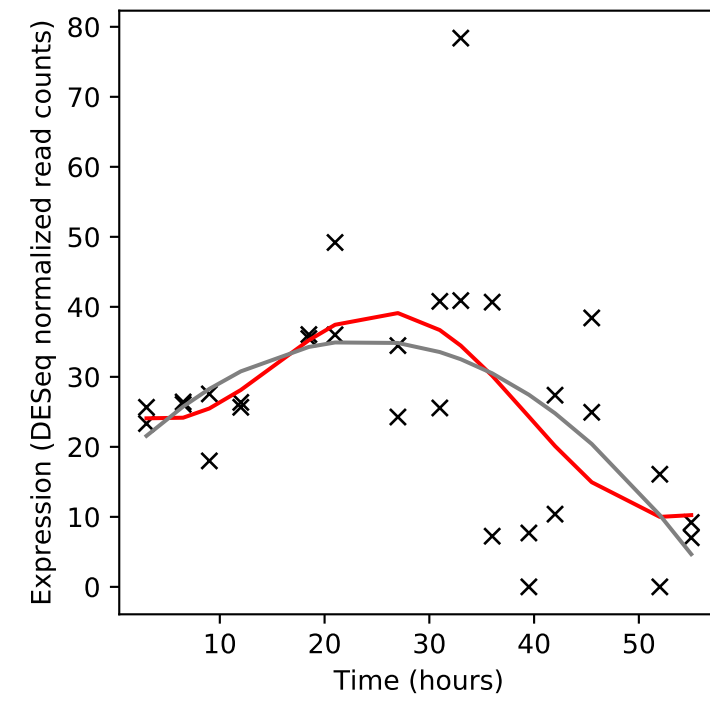
Rv2061c/-



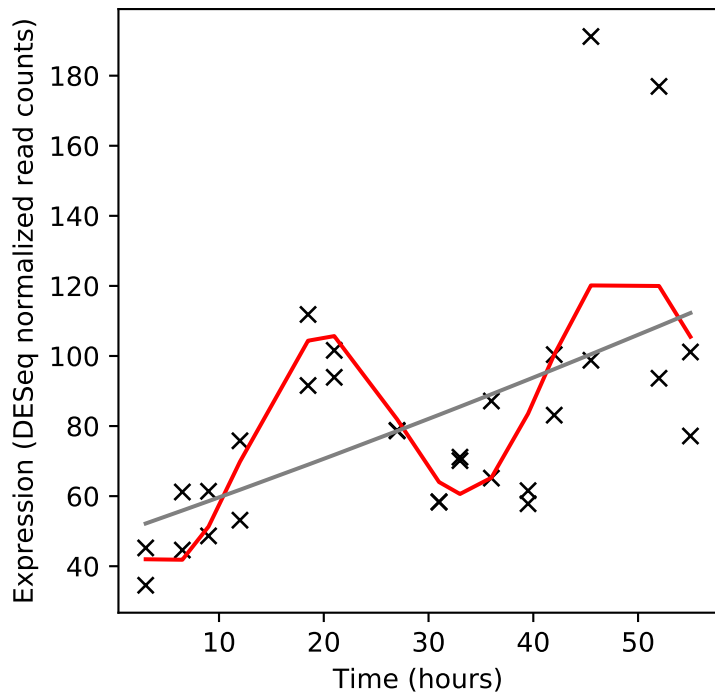
Rv2062c/cobN



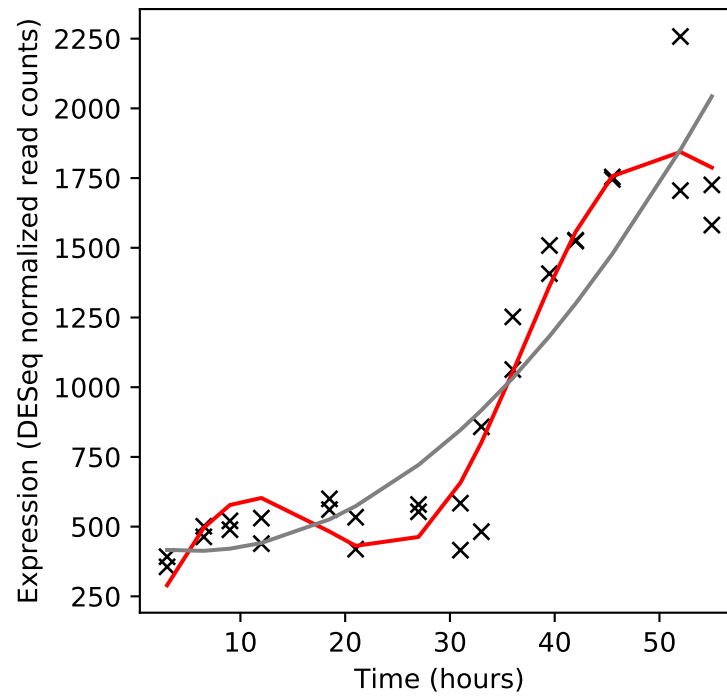
Rv2063/mazE7



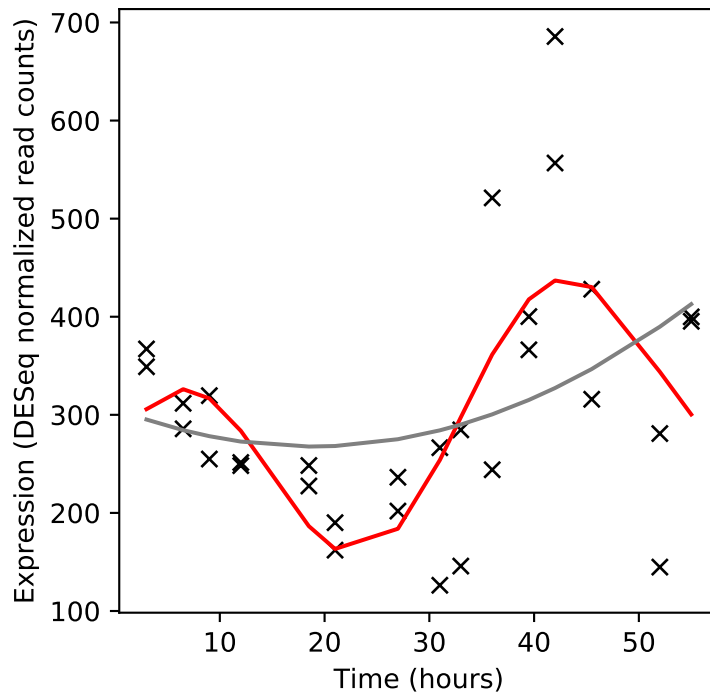
Rv2063A/mazF7



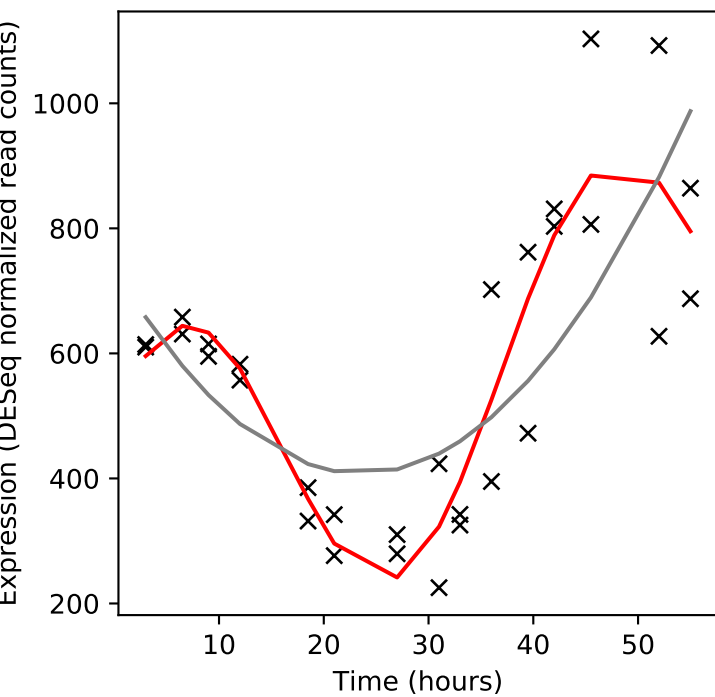
Rv2064/cobG



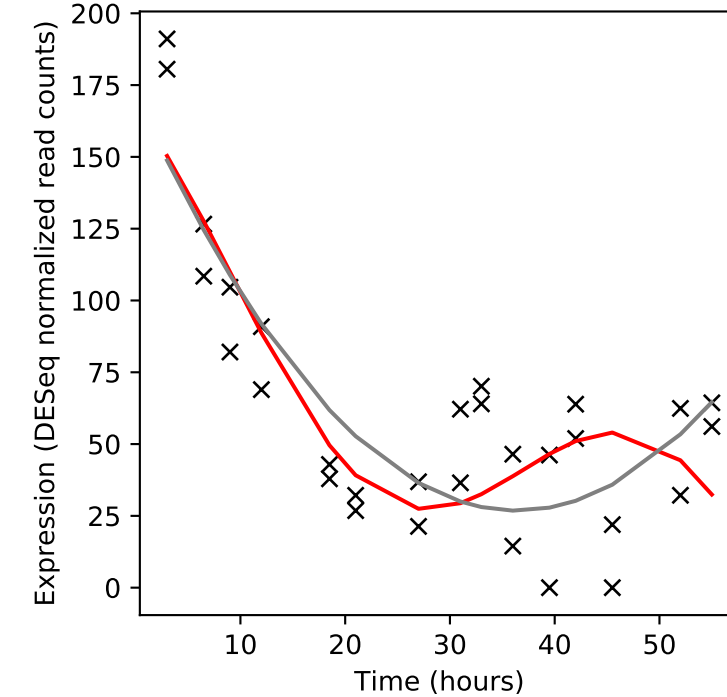
Rv2065/cobH



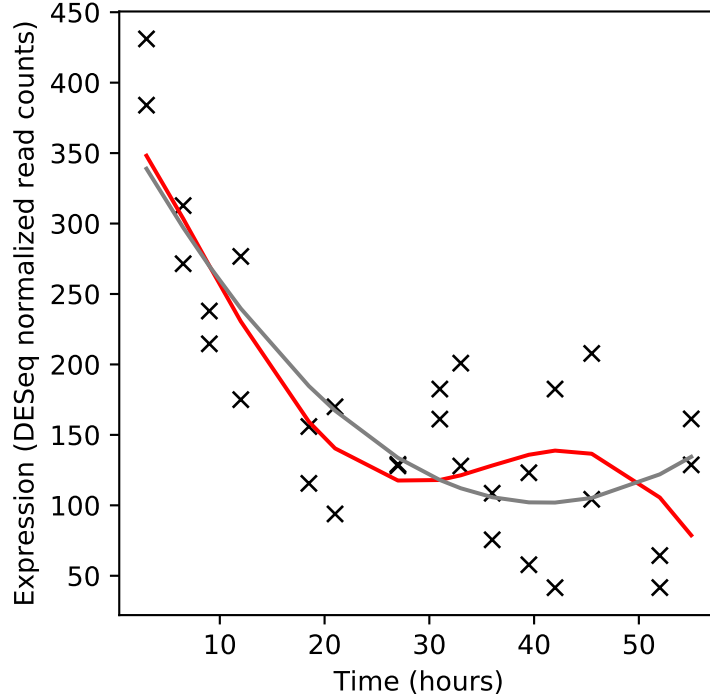
Rv2066/cobI



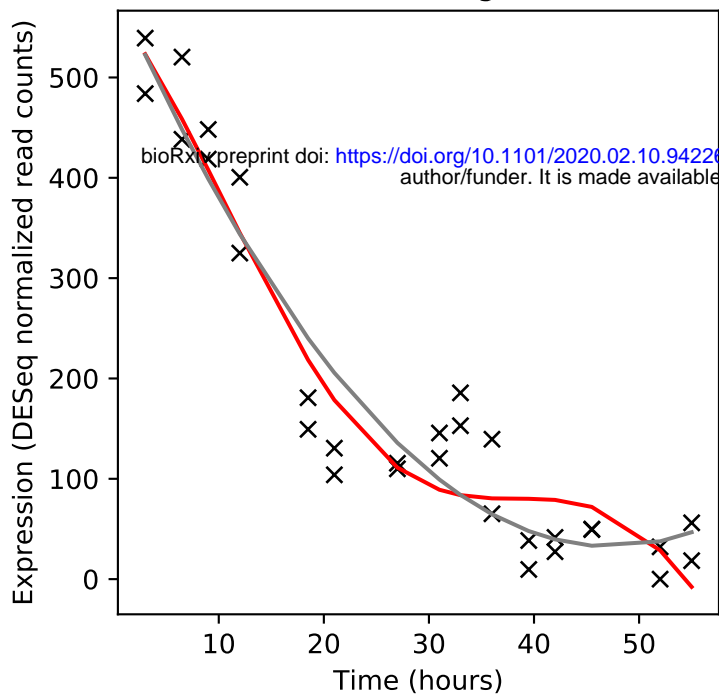
Rv2067c/-



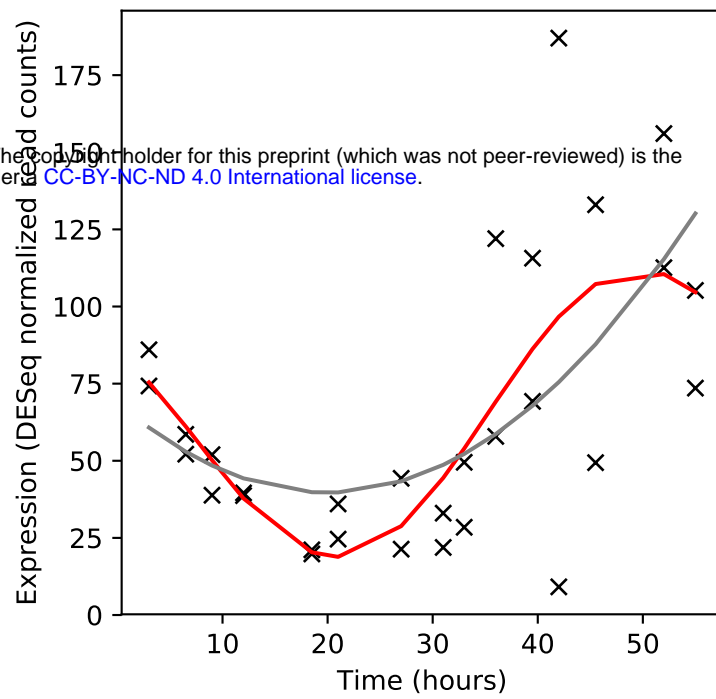
Rv2068c/blaC



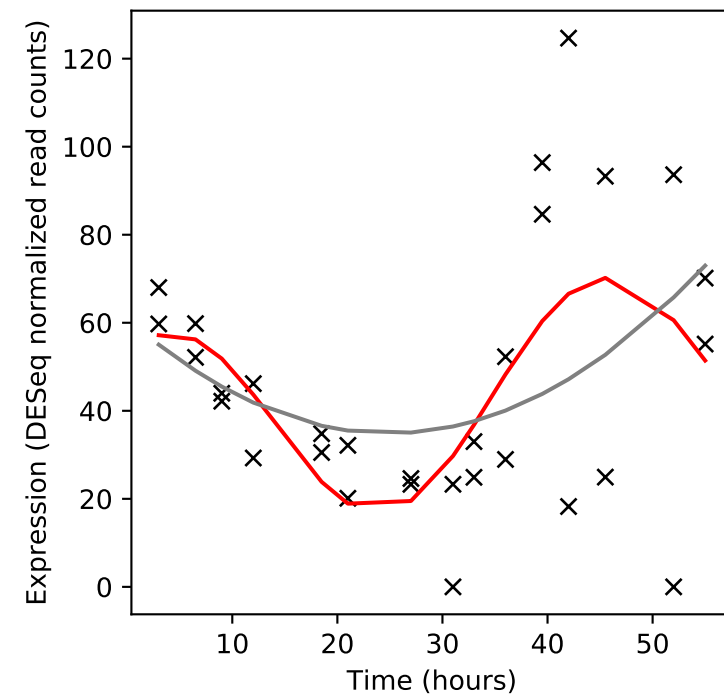
Rv2069/sigC



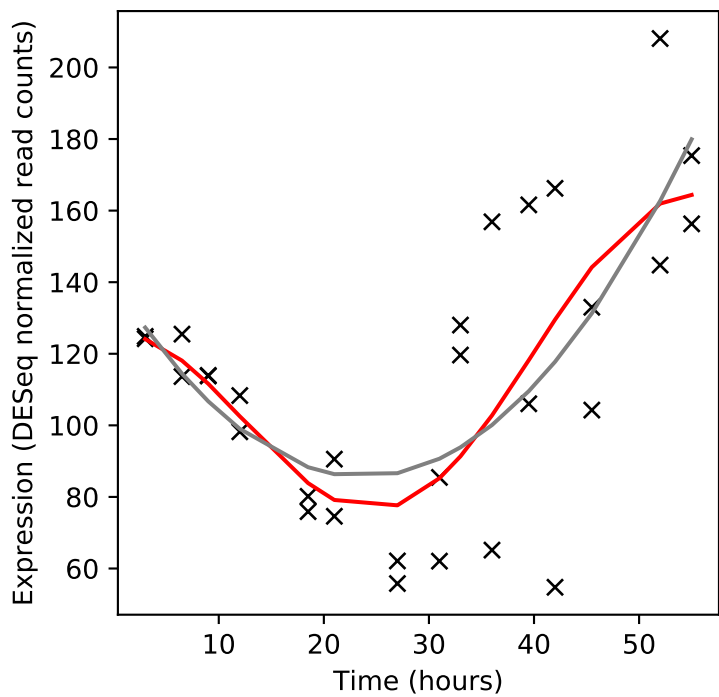
Rv2070c/cobK



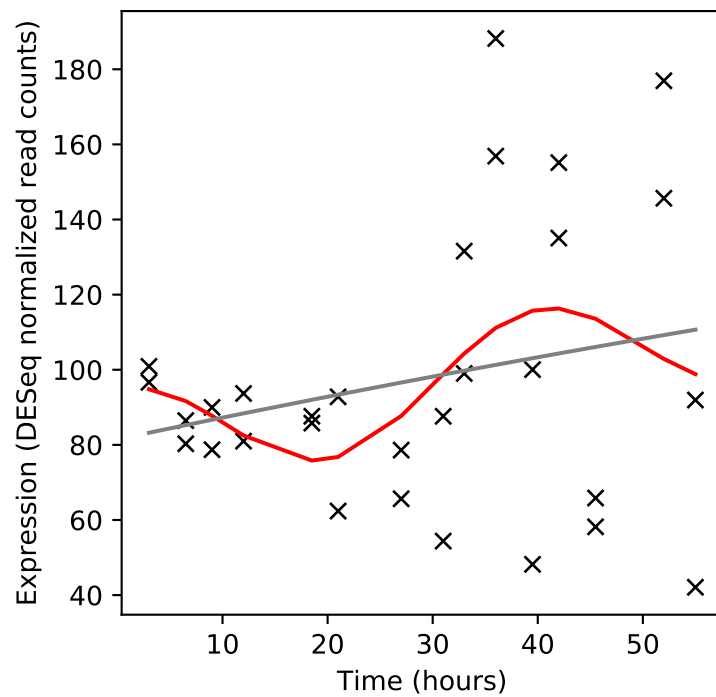
Rv2071c/cobM



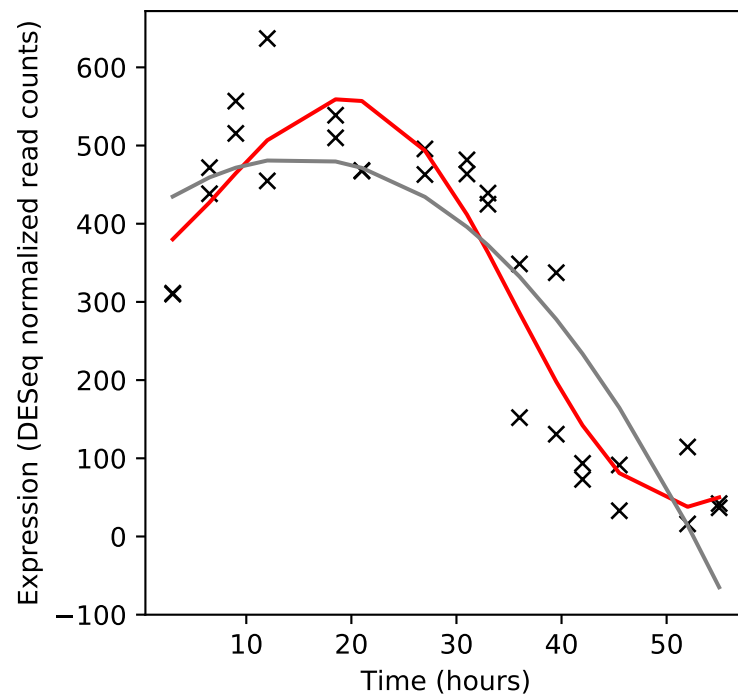
Rv2072c/cobL



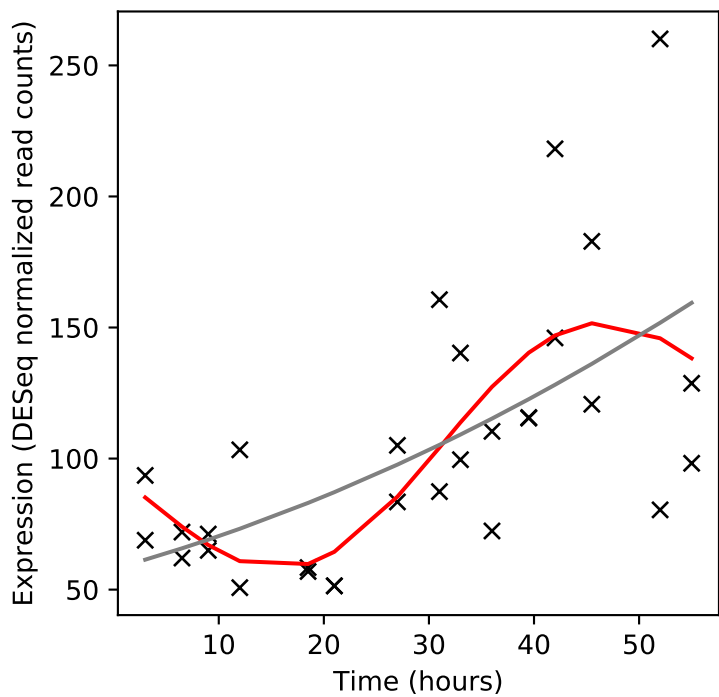
Rv2073c/-



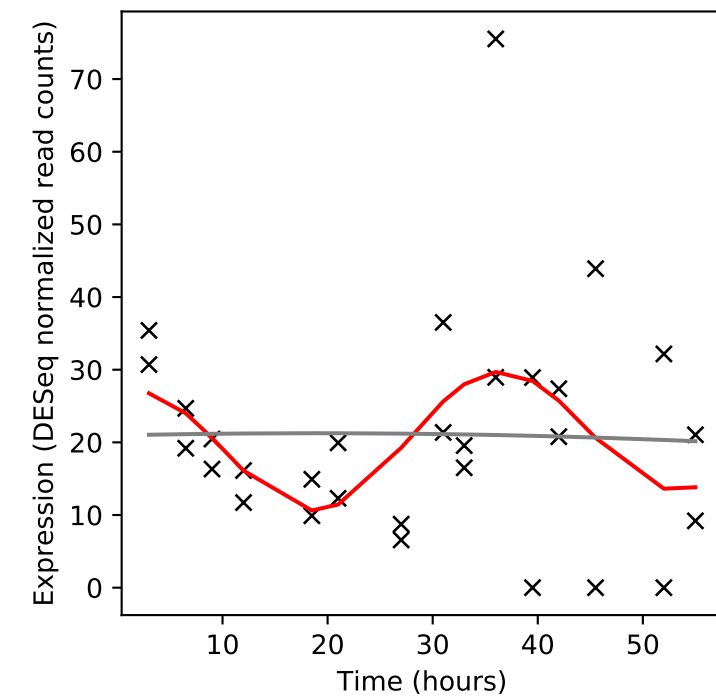
Rv2074/-



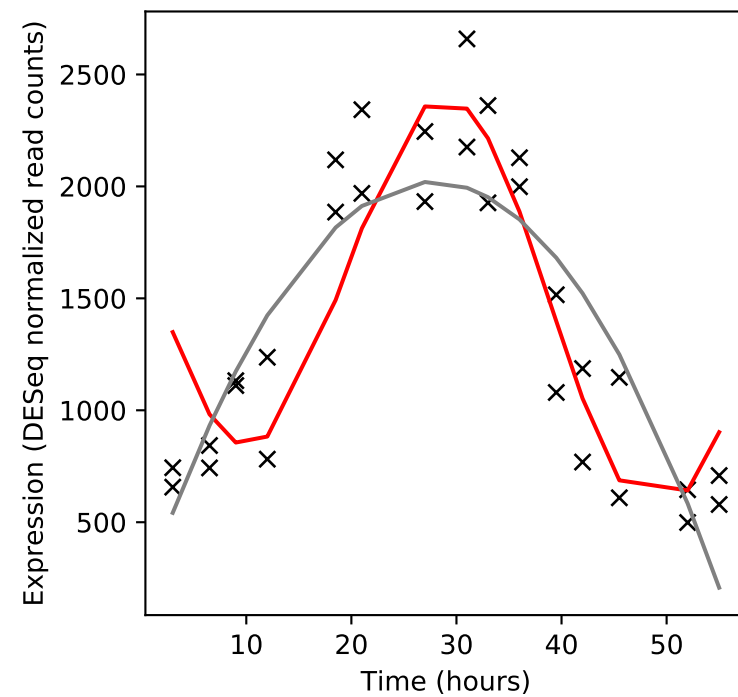
Rv2075c/-



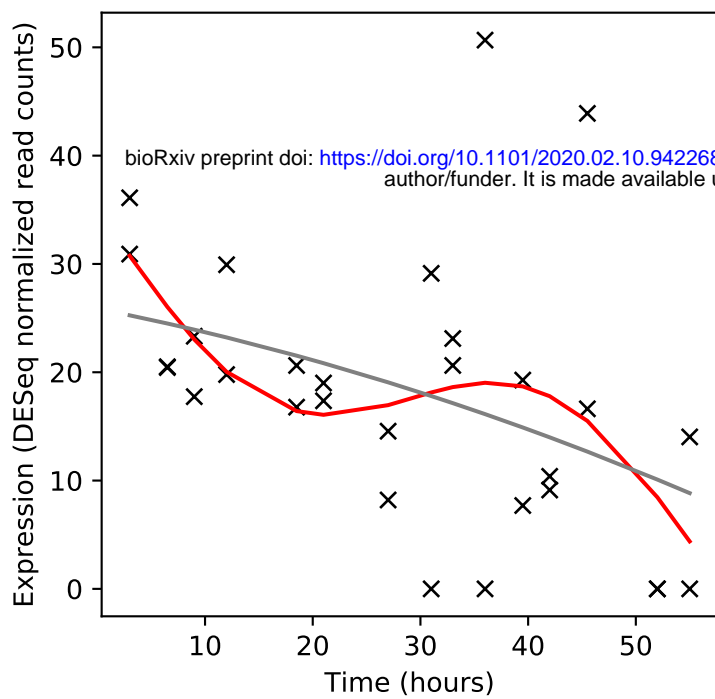
Rv2076c/-



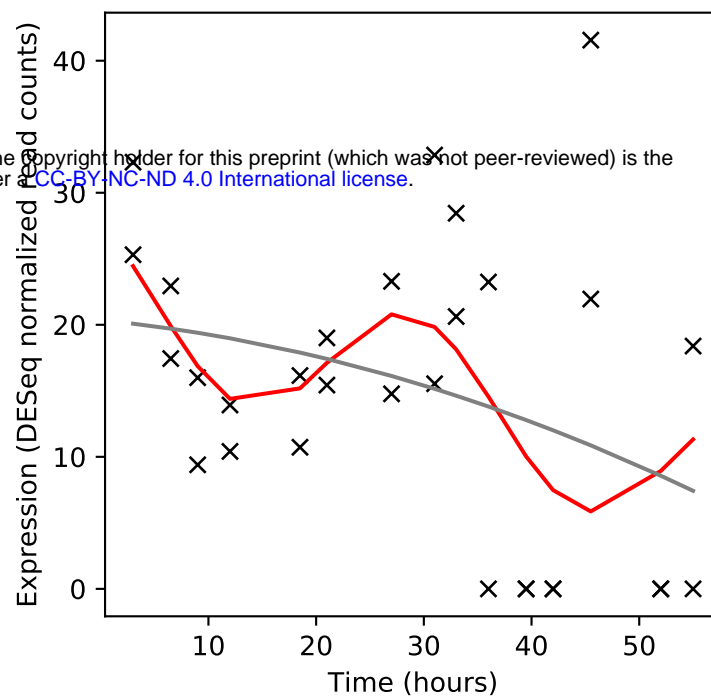
Rv2077c/-



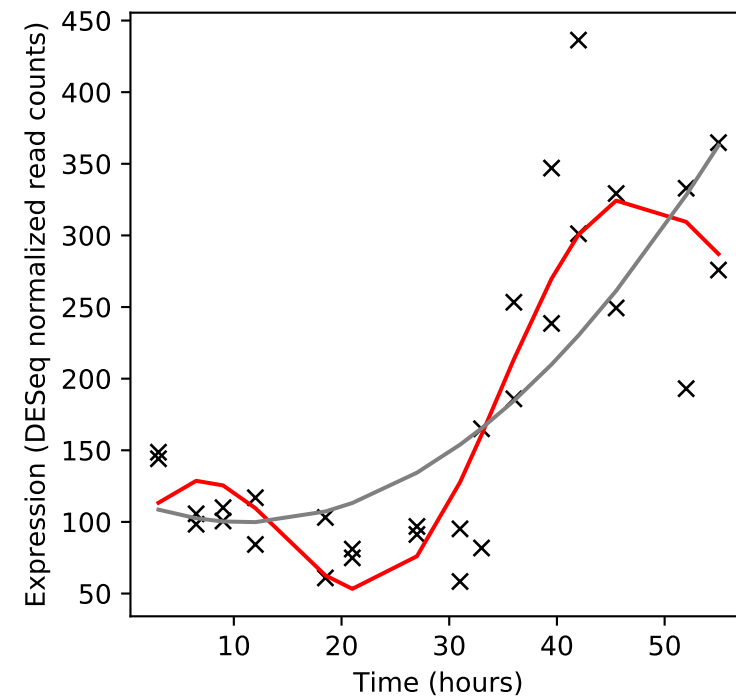
Rv2077A/-



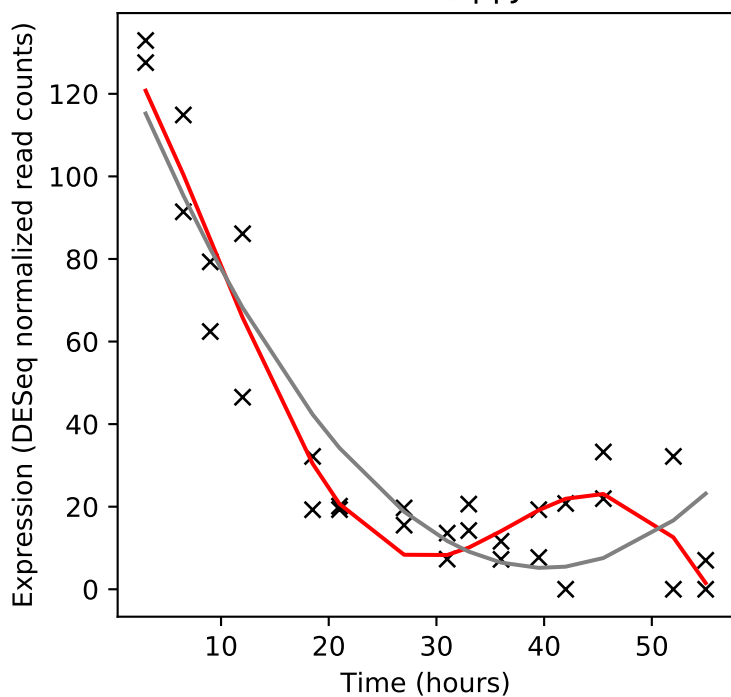
Rv2078/-



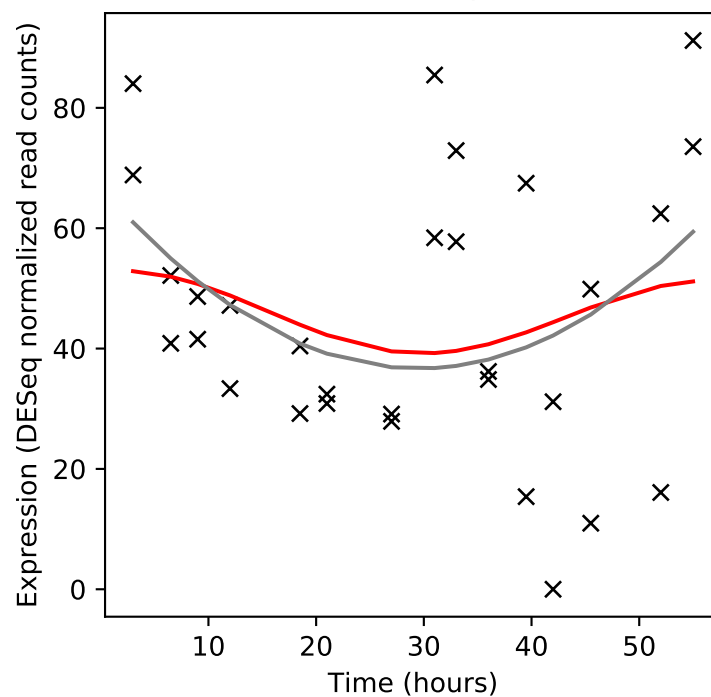
Rv2079/-



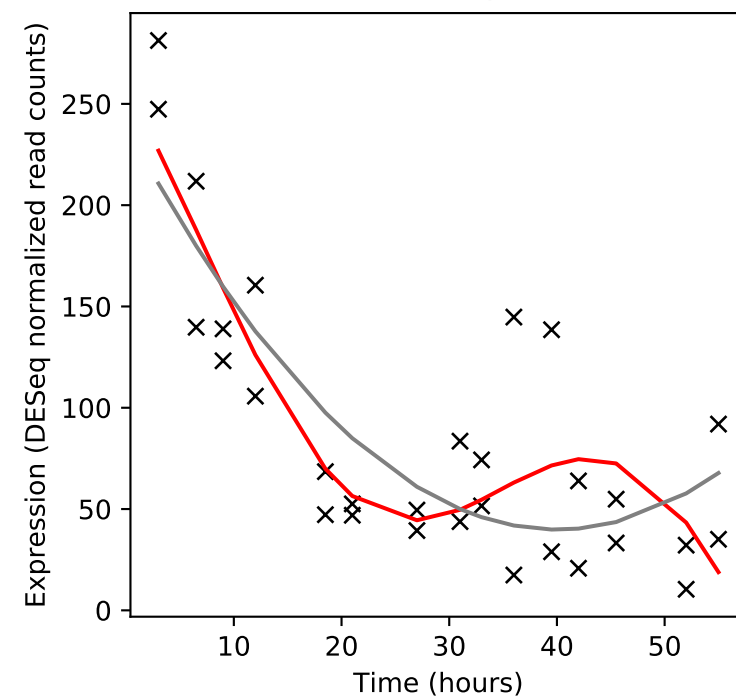
Rv2080/lppj



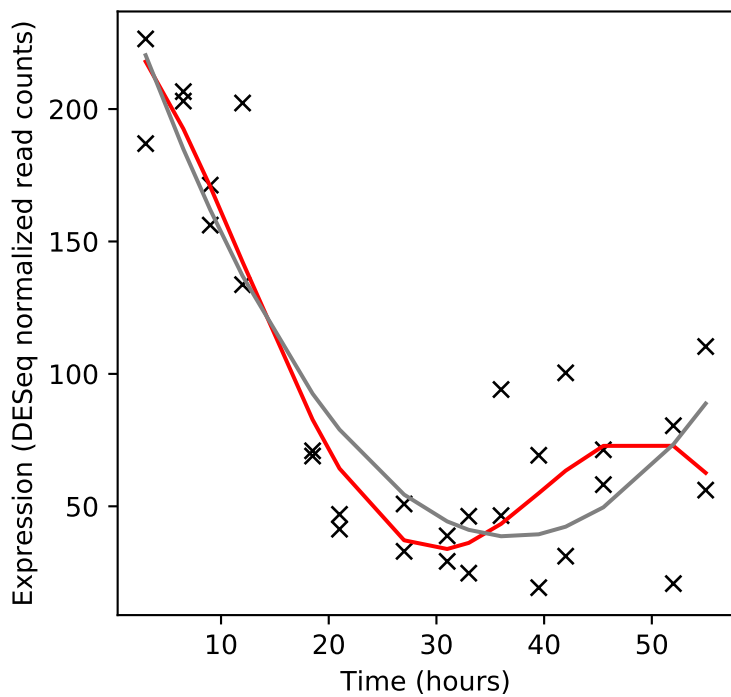
Rv2081c/-



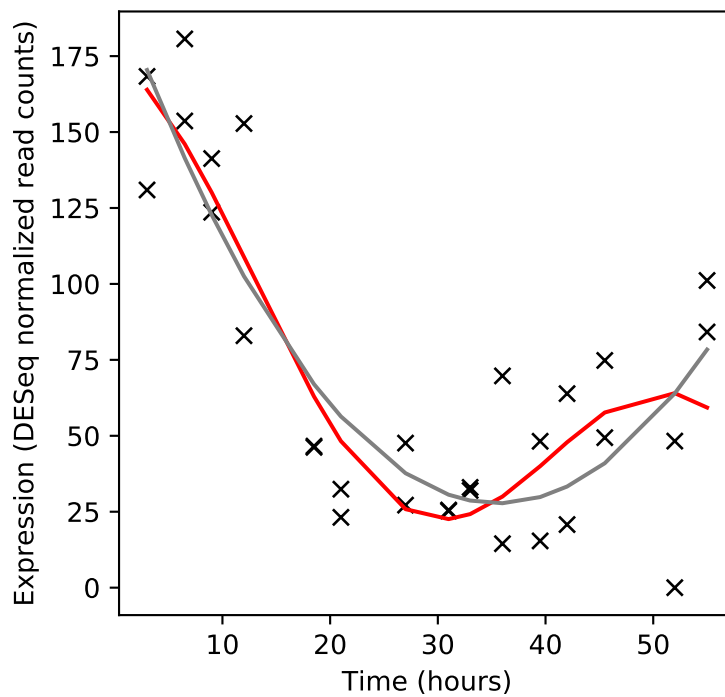
Rv2082/-



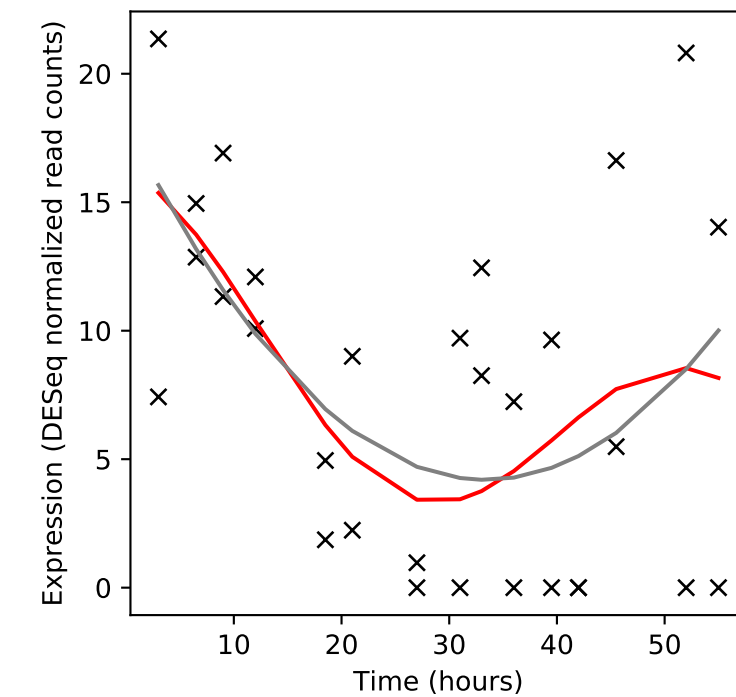
Rv2083/-



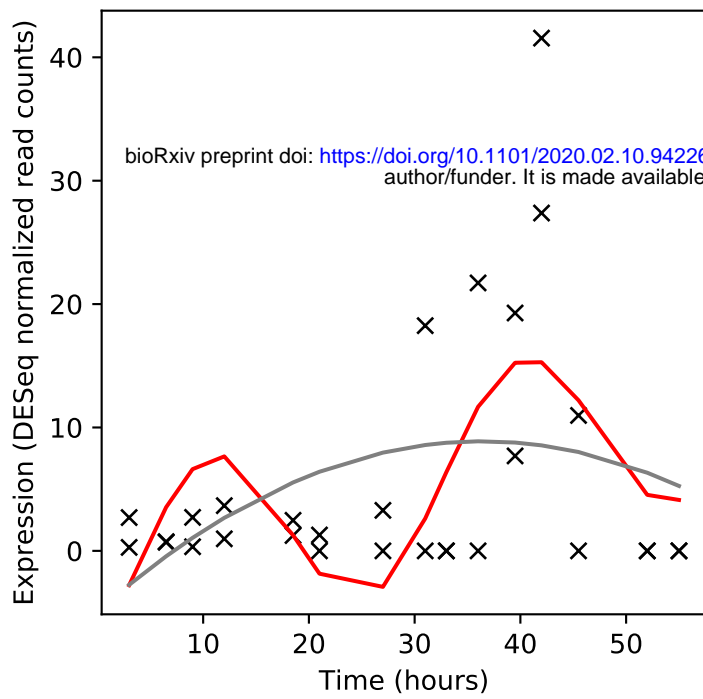
Rv2084/-



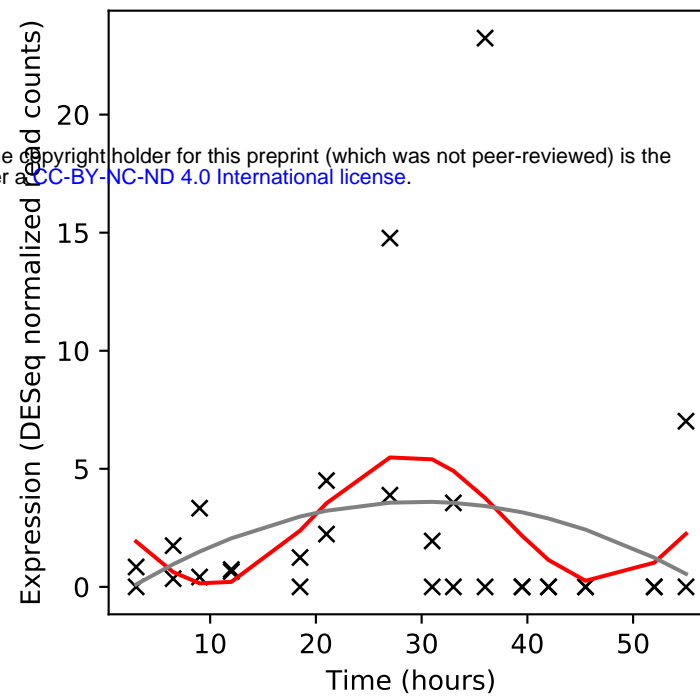
Rv2085/-



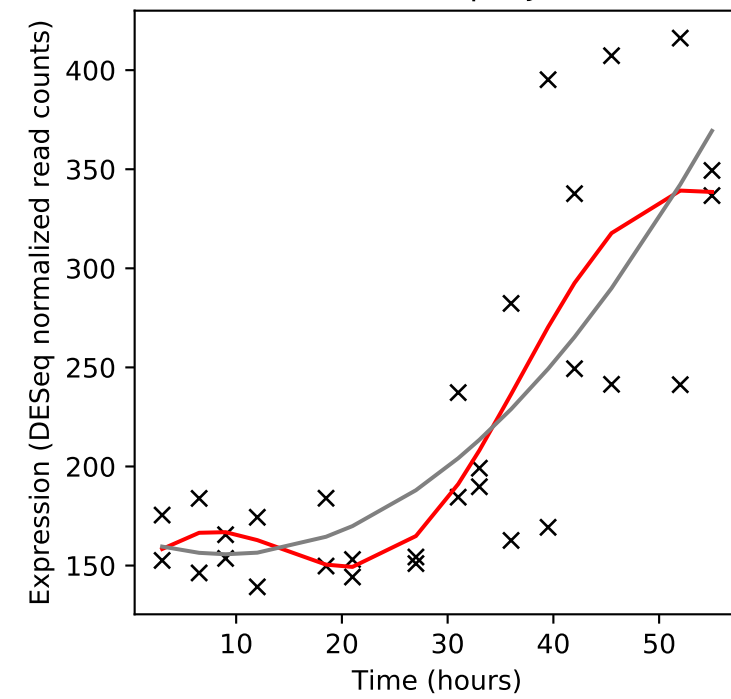
Rv2086/-



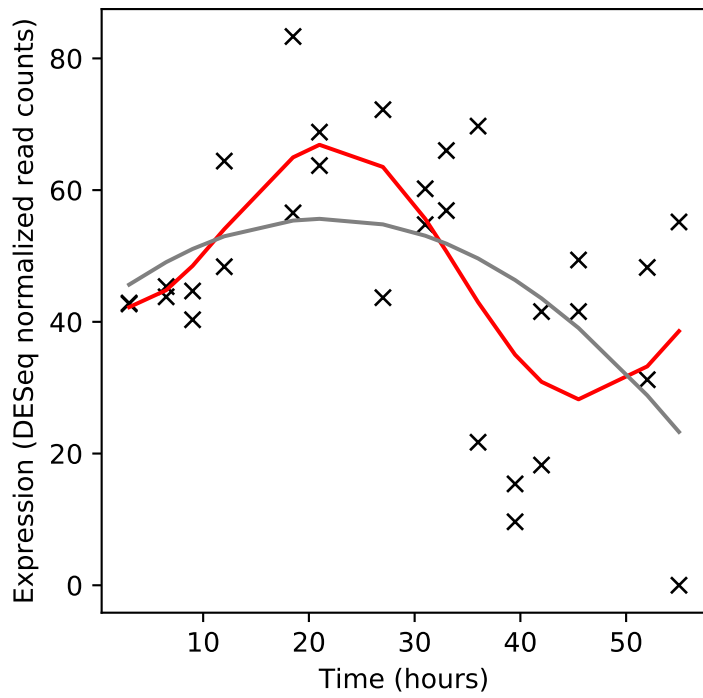
Rv2087/-



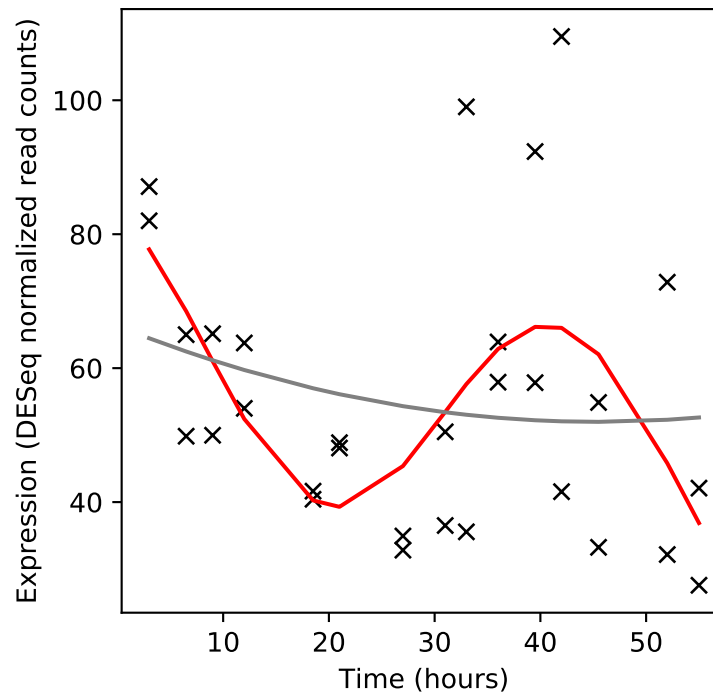
Rv2088/pknJ



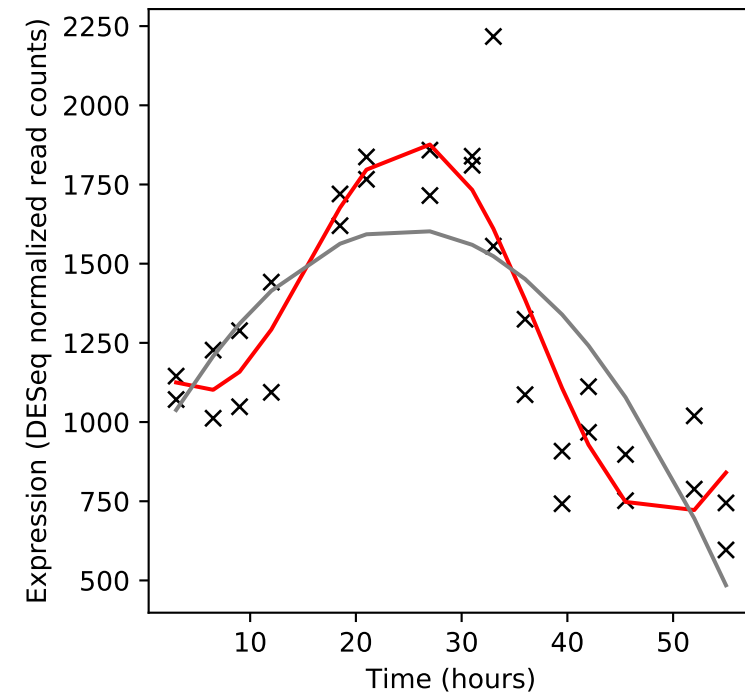
Rv2089c/pepE



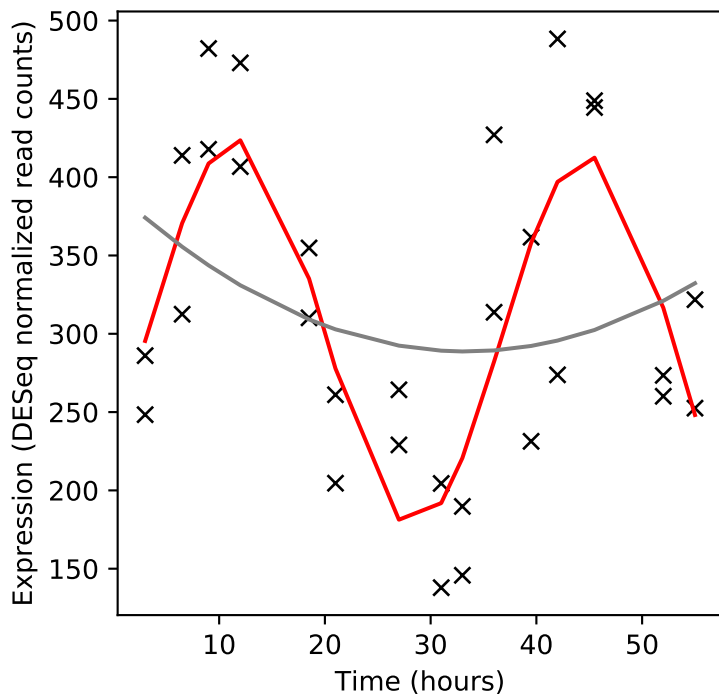
Rv2090/-



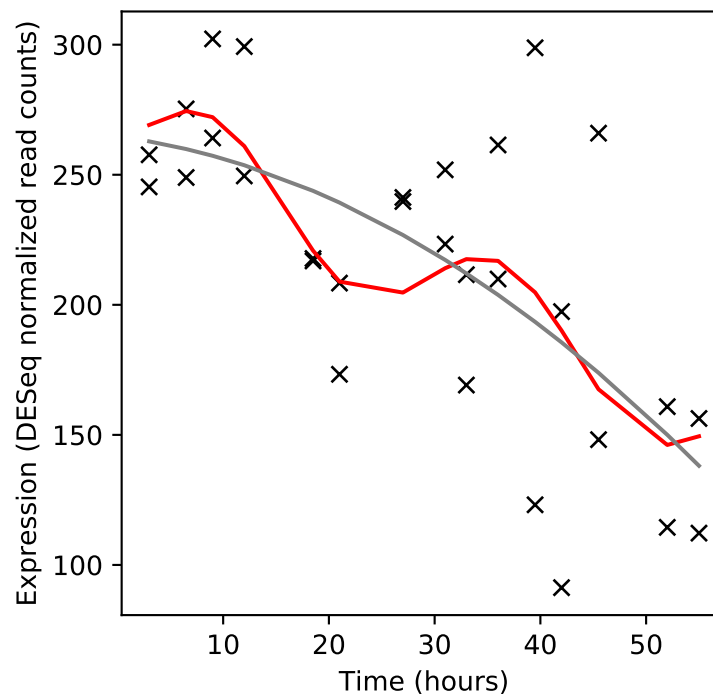
Rv2091c/-



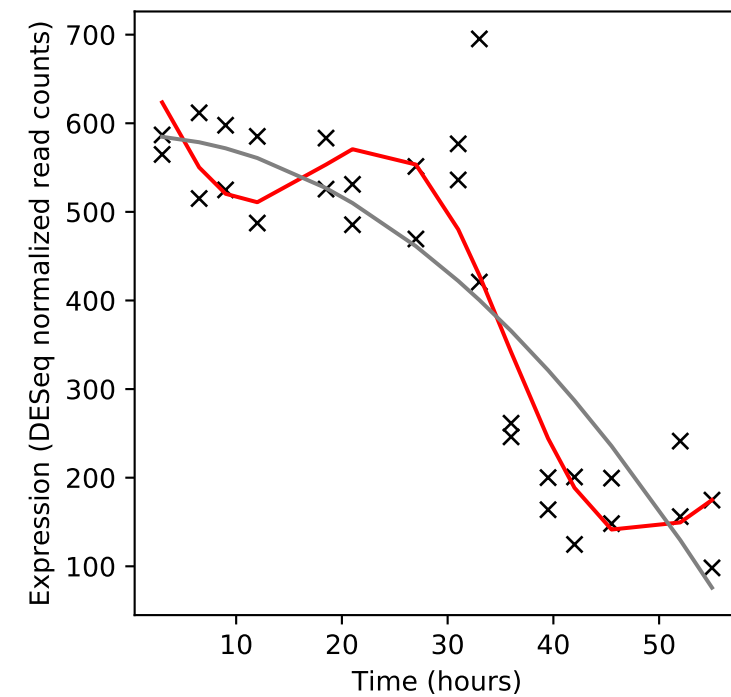
Rv2092c/helY



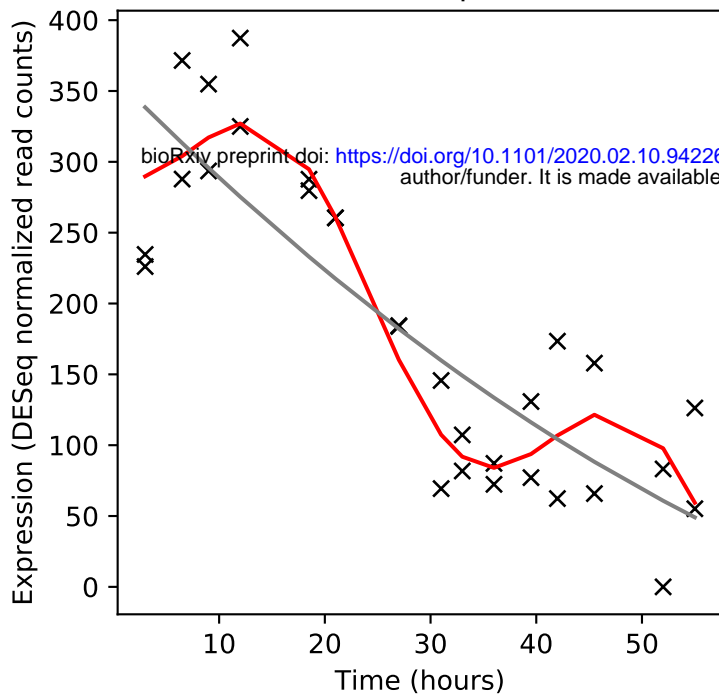
Rv2093c/tatC



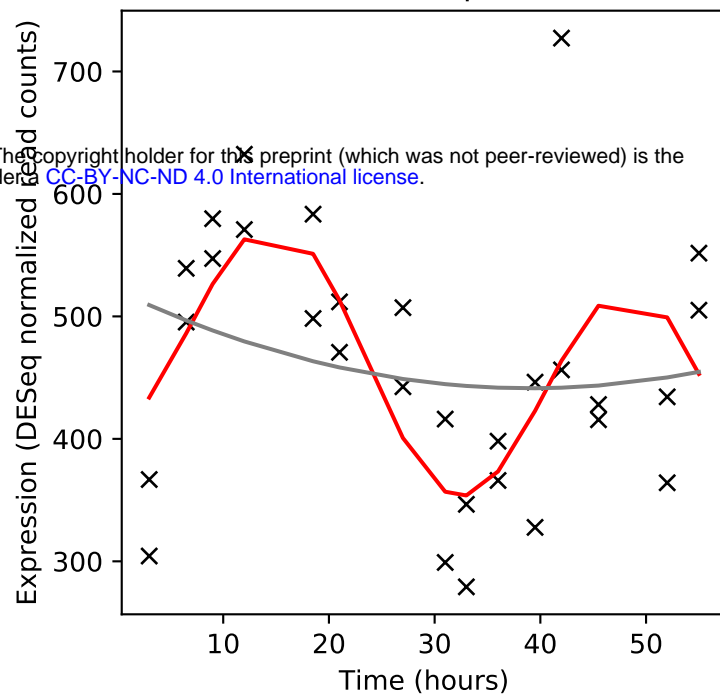
Rv2094c/tatA



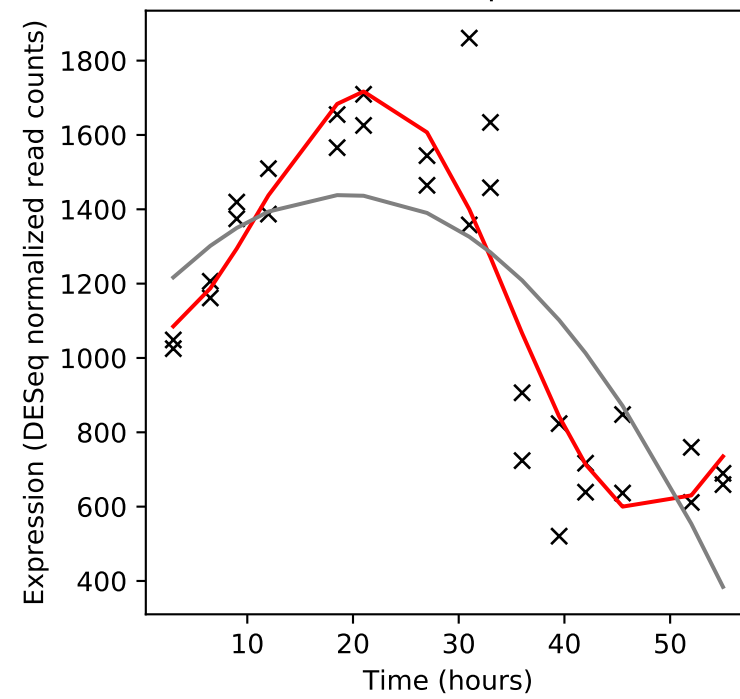
Rv2095c/pafC



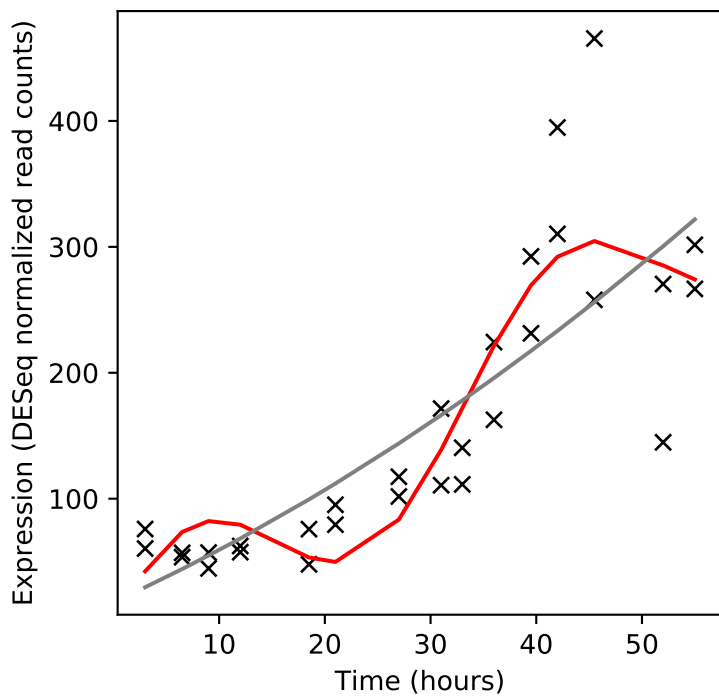
Rv2096c/pafB



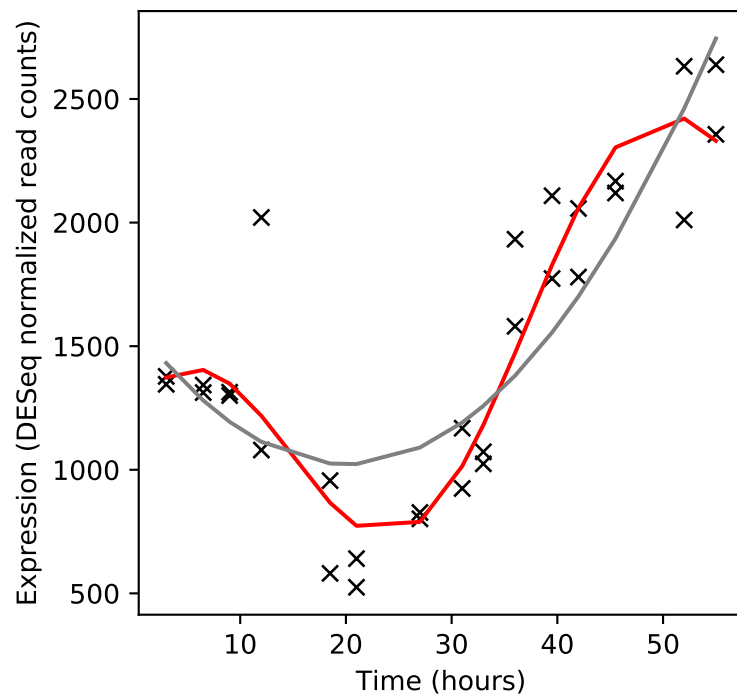
Rv2097c/pafA



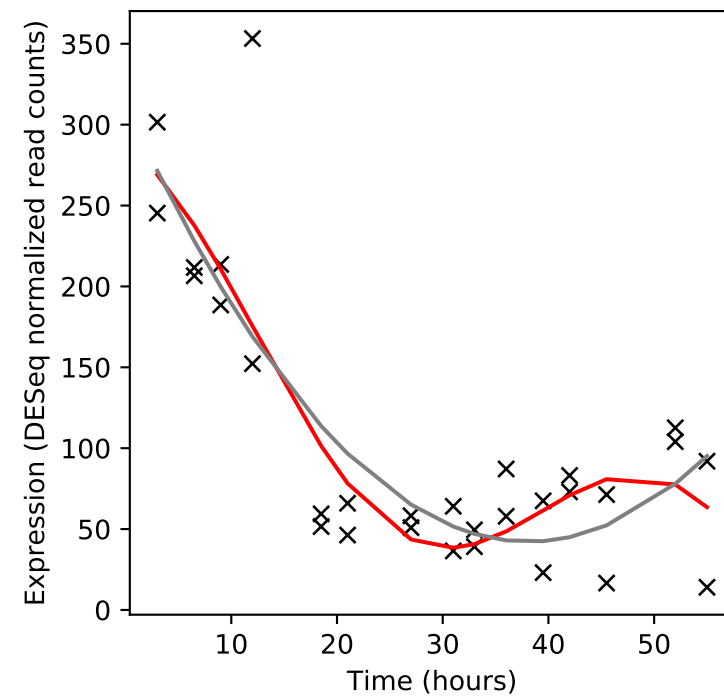
Rv2100/-



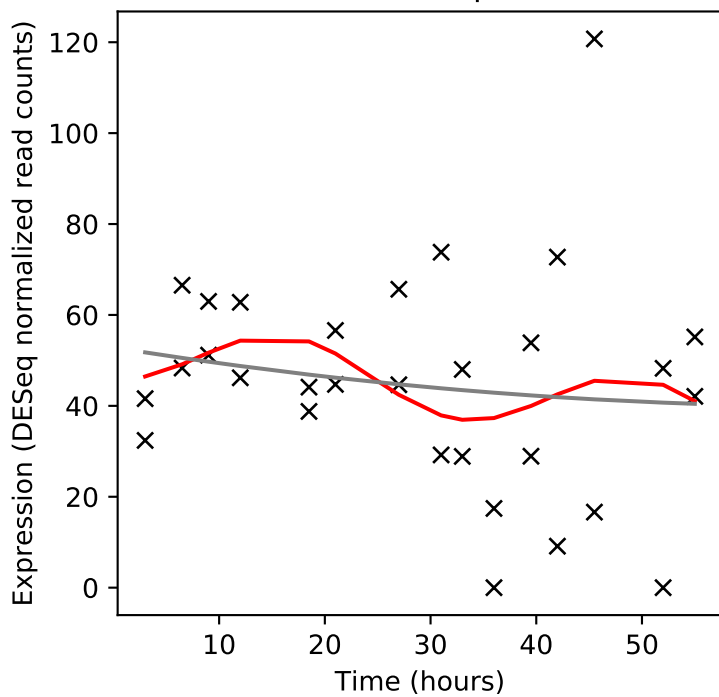
Rv2101/helZ



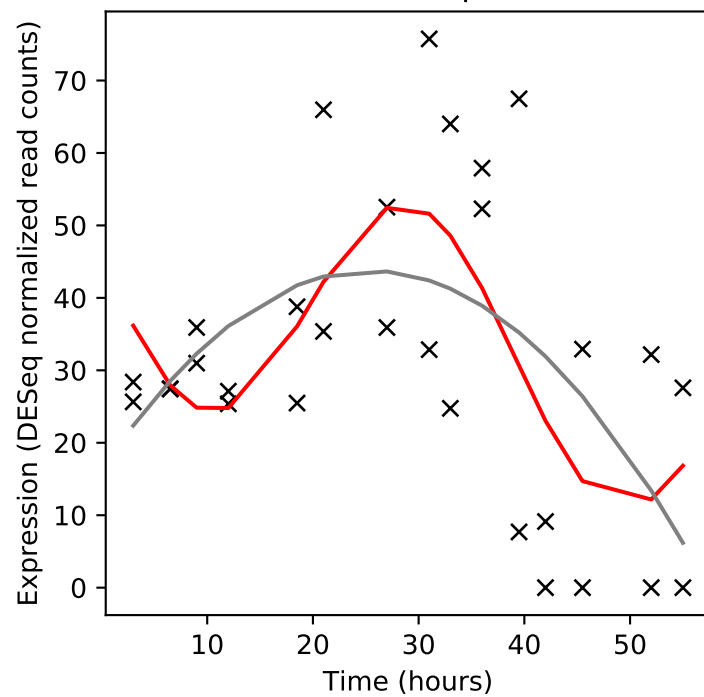
Rv2102/-



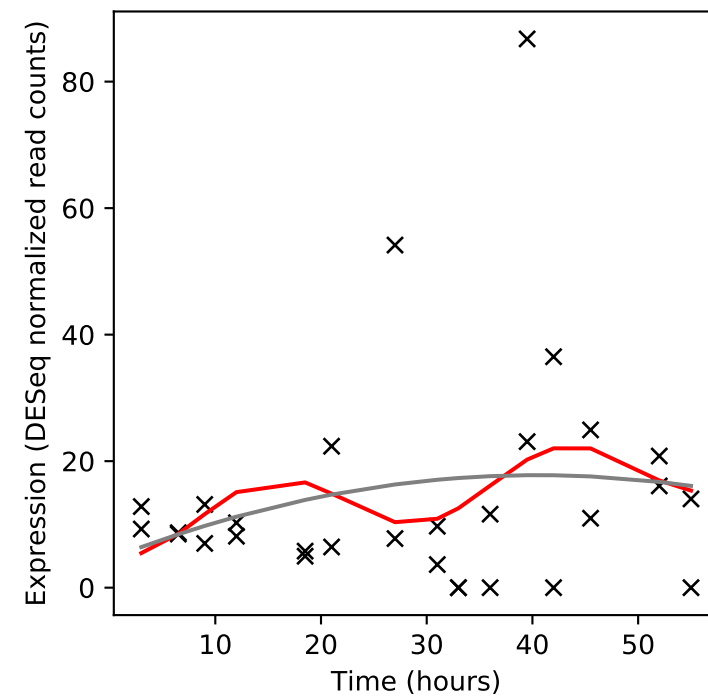
Rv2103c/vapC37



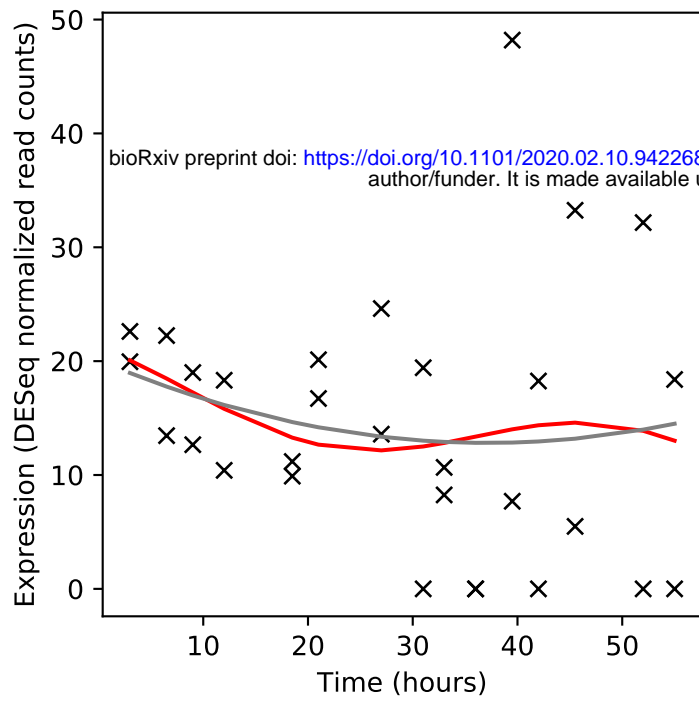
Rv2104c/vapB37



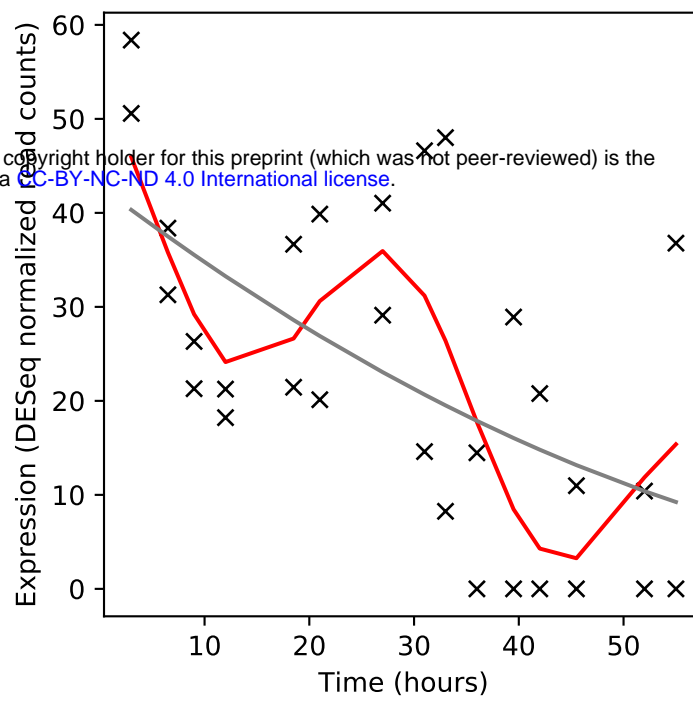
Rv2105/-



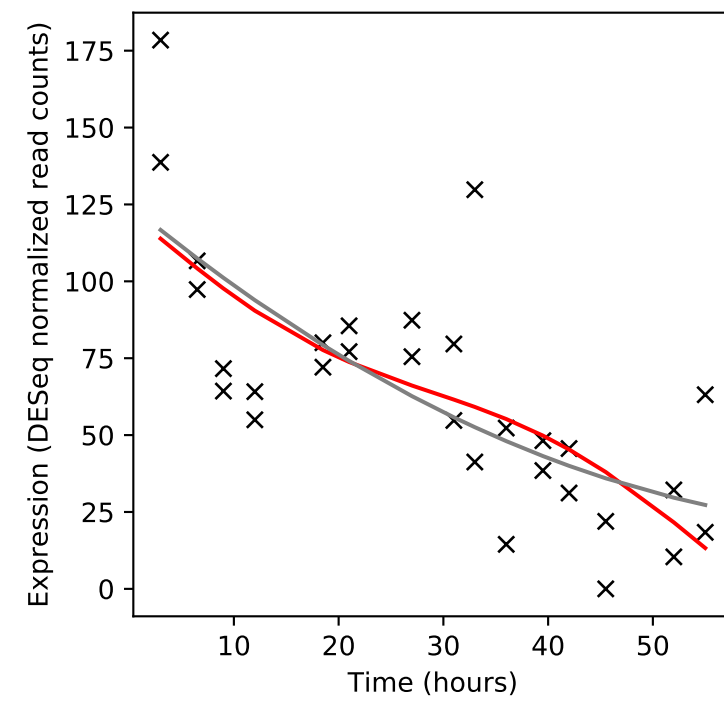
Rv2106/-



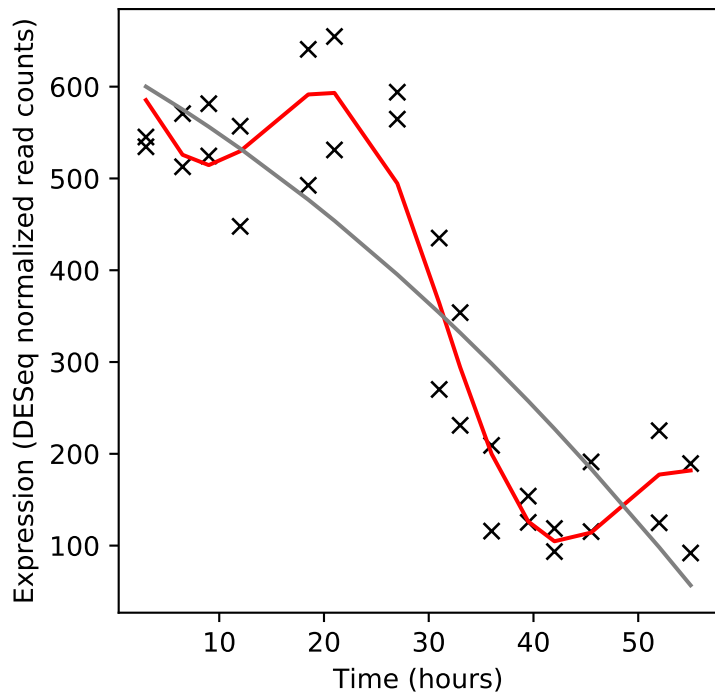
Rv2107/PE22



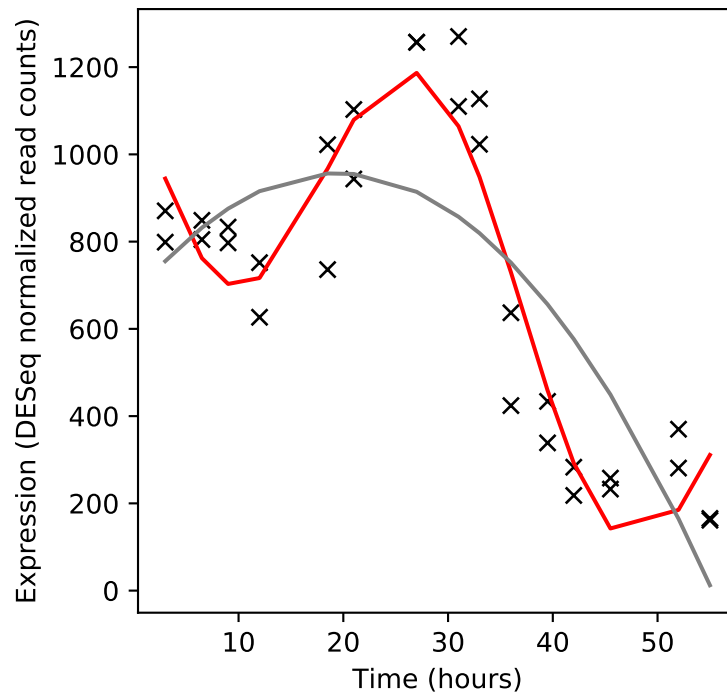
Rv2108/PPE36



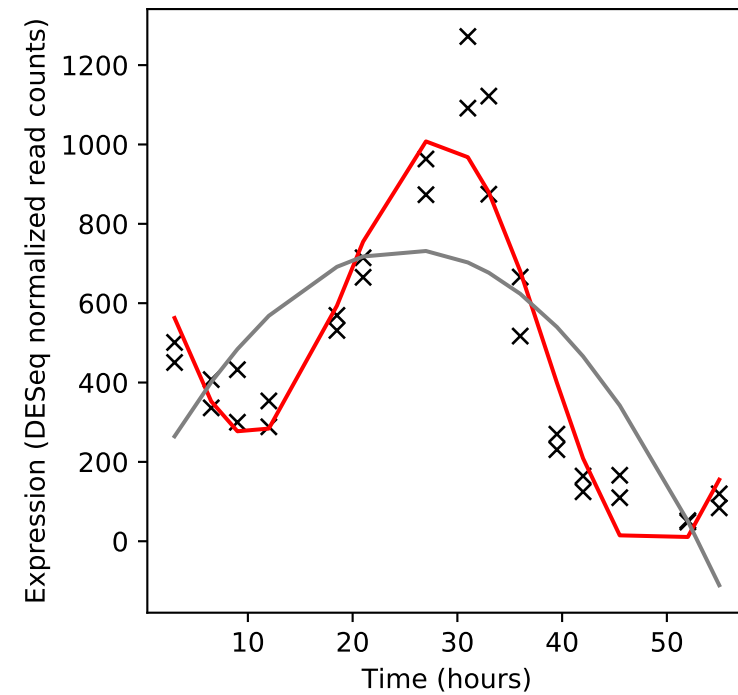
Rv2109c/prcA



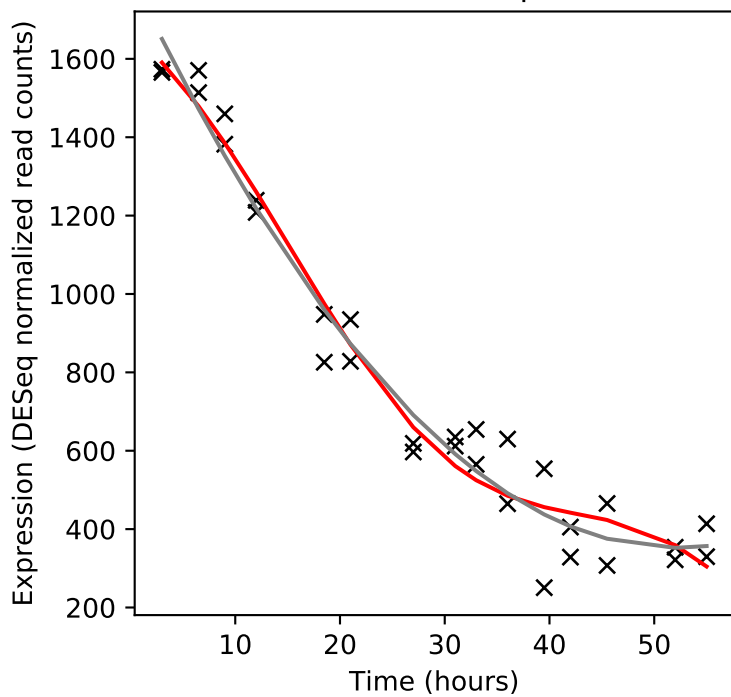
Rv2110c/prcB



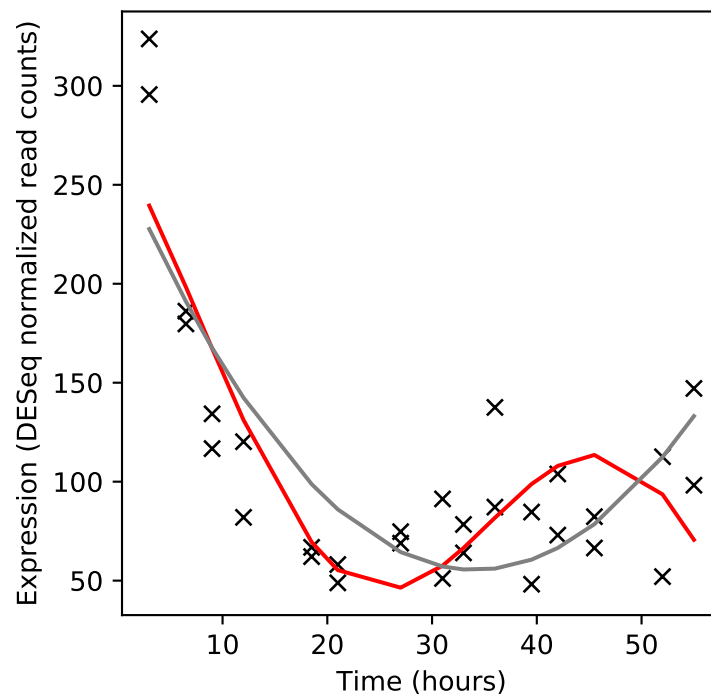
Rv2111c/pup



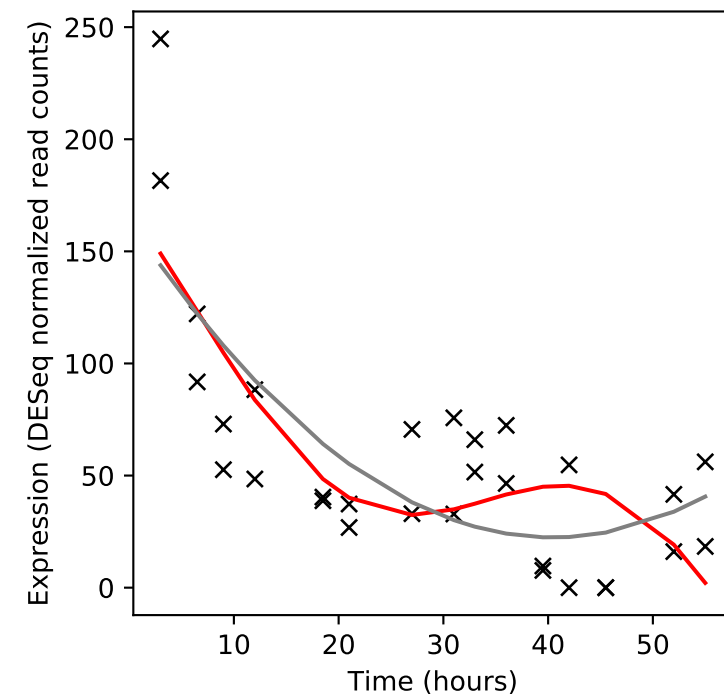
Rv2112c/dop



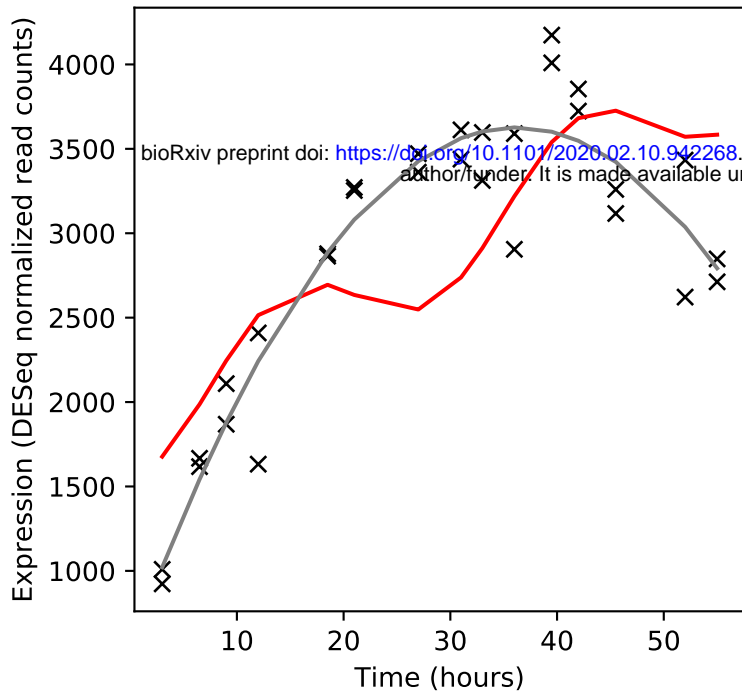
Rv2113/-



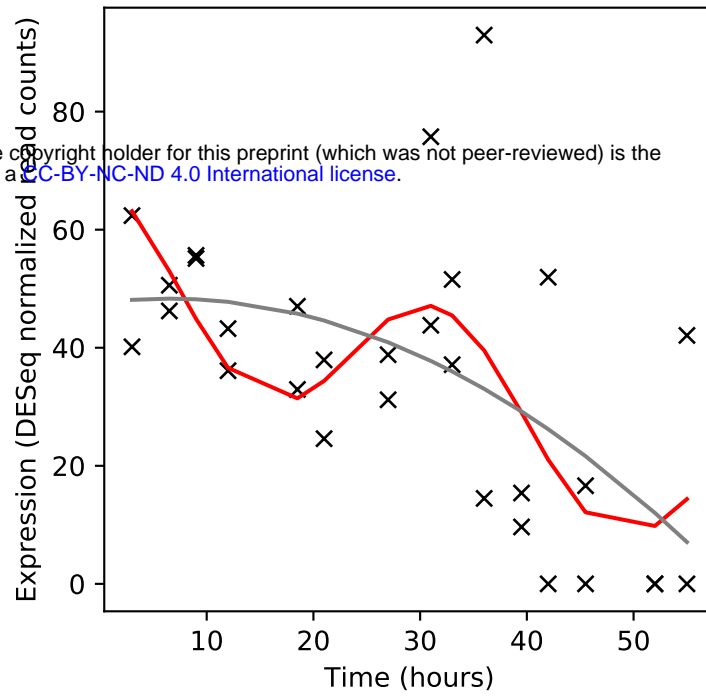
Rv2114/-



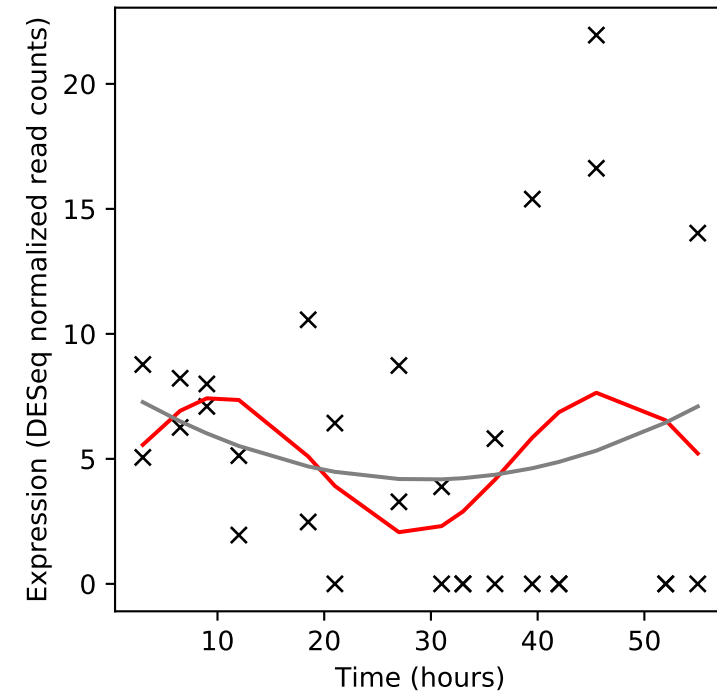
Rv2115c/mpa



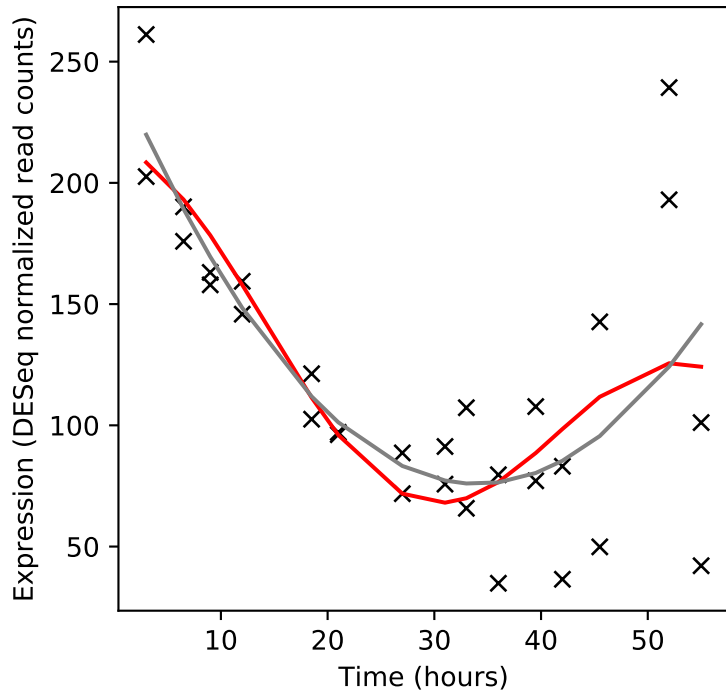
Rv2116/lppK



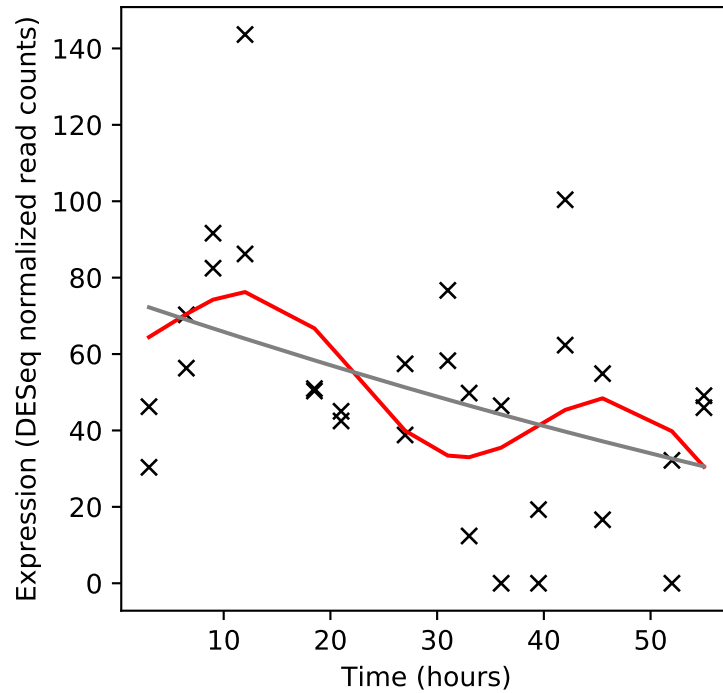
Rv2117/-



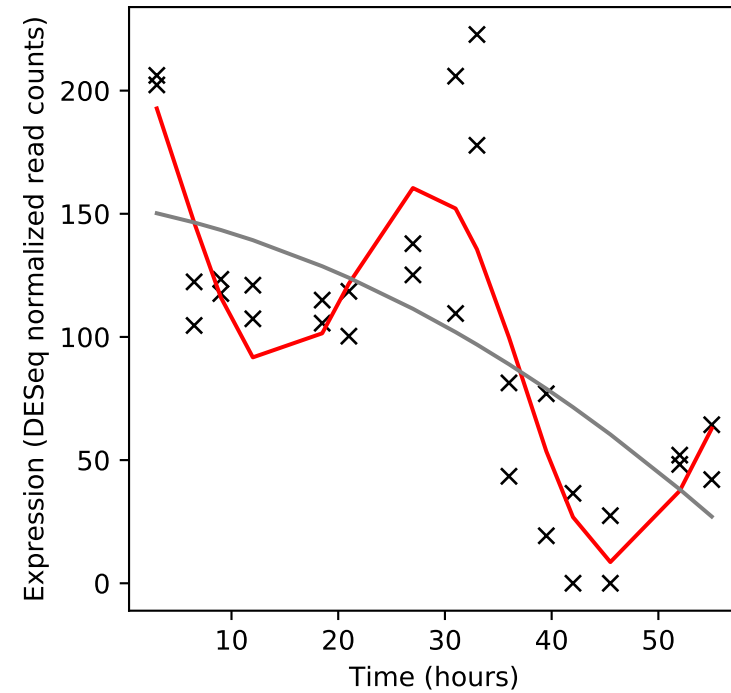
Rv2118c/-



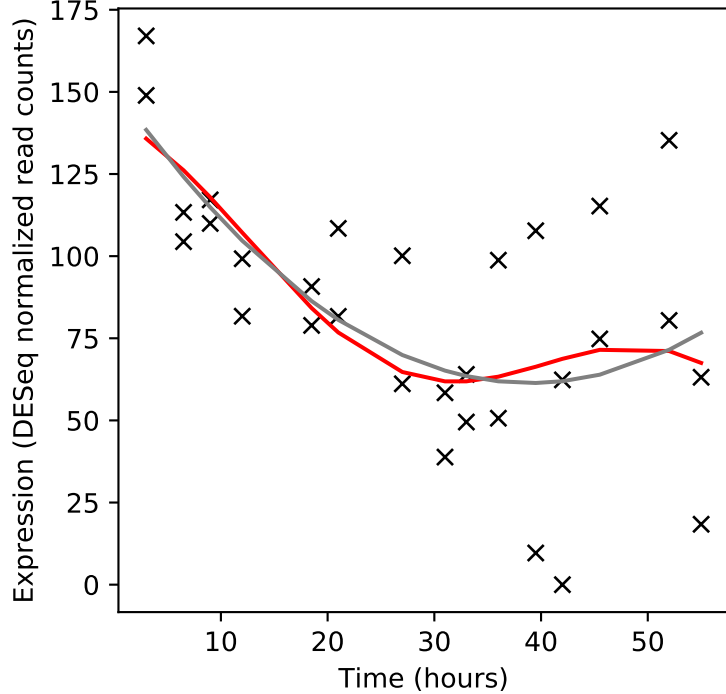
Rv2119/-



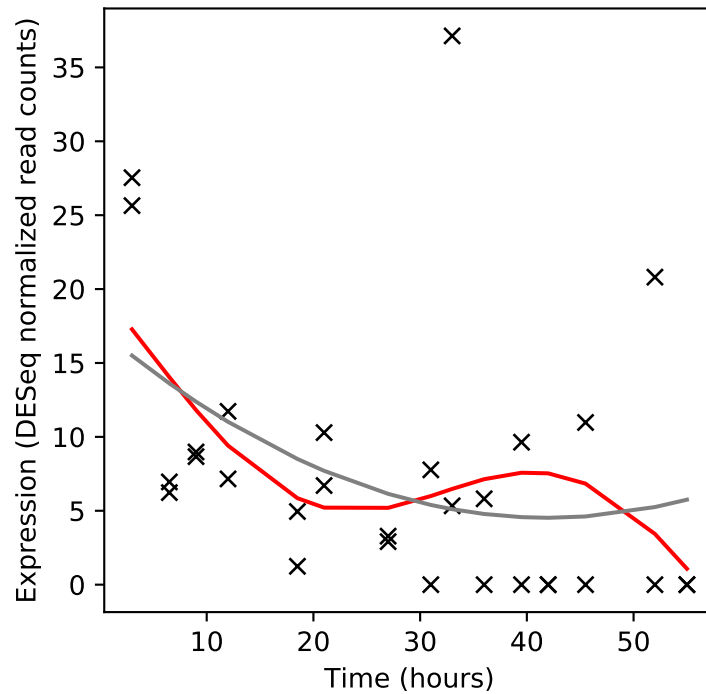
Rv2120c/-



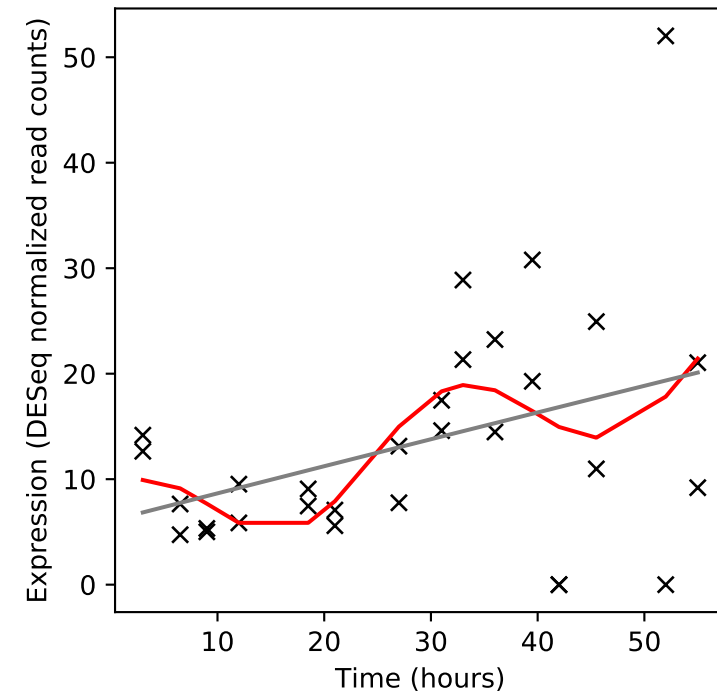
Rv2121c/hisG



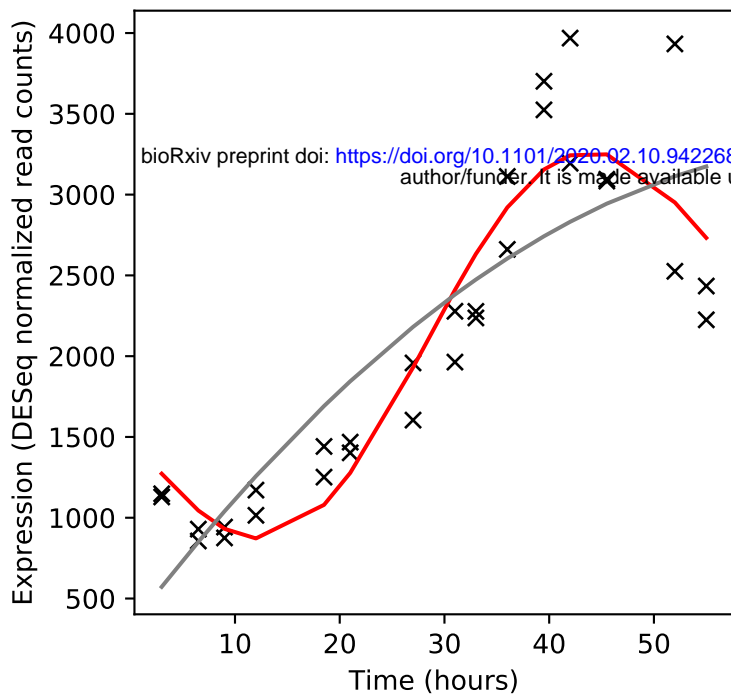
Rv2122c/hisE



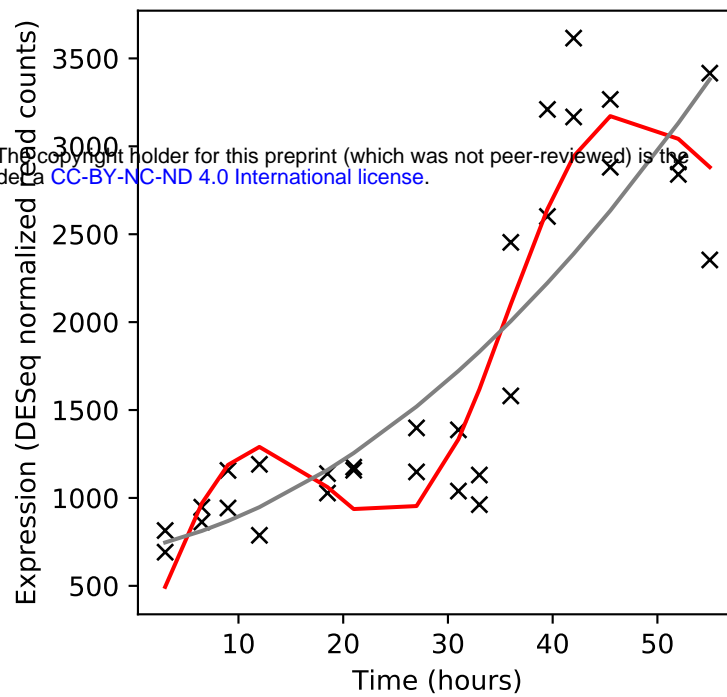
Rv2123/PPE37



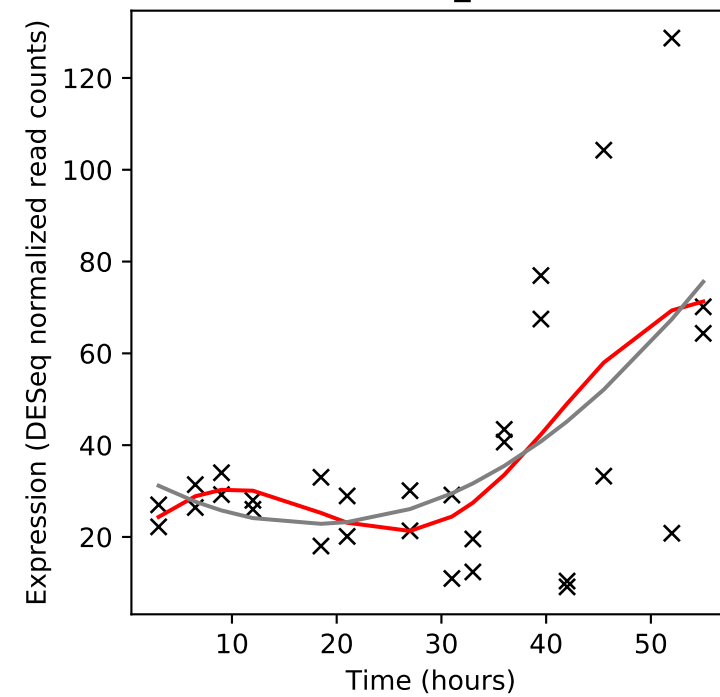
Rv2124c/methH



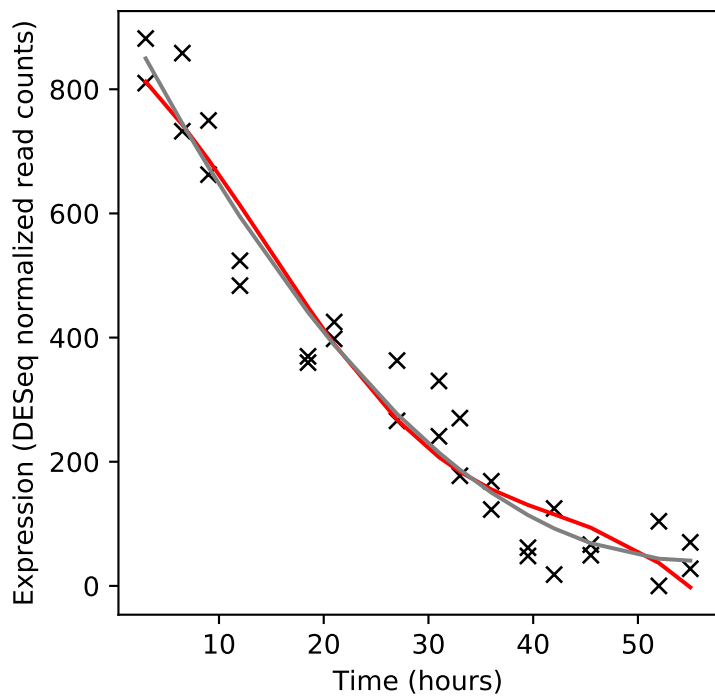
Rv2125/-



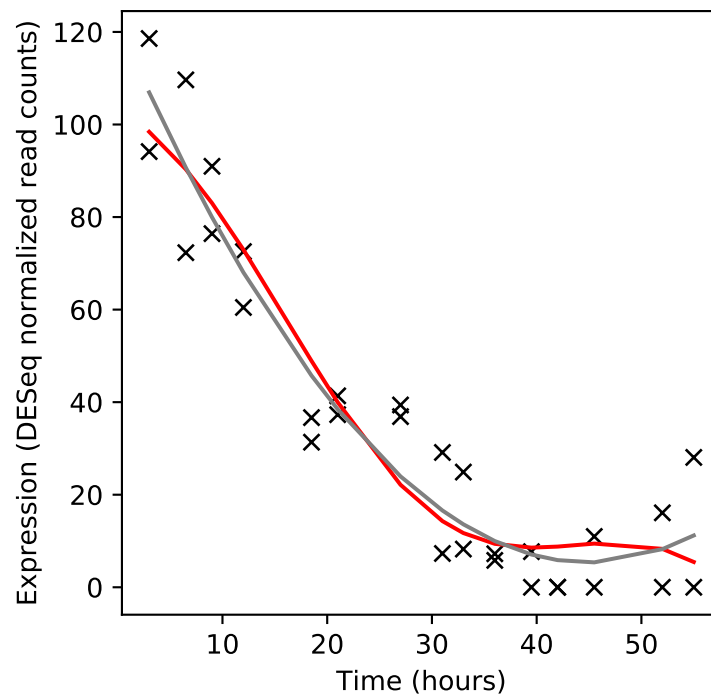
Rv2126c/PE_PGRS37



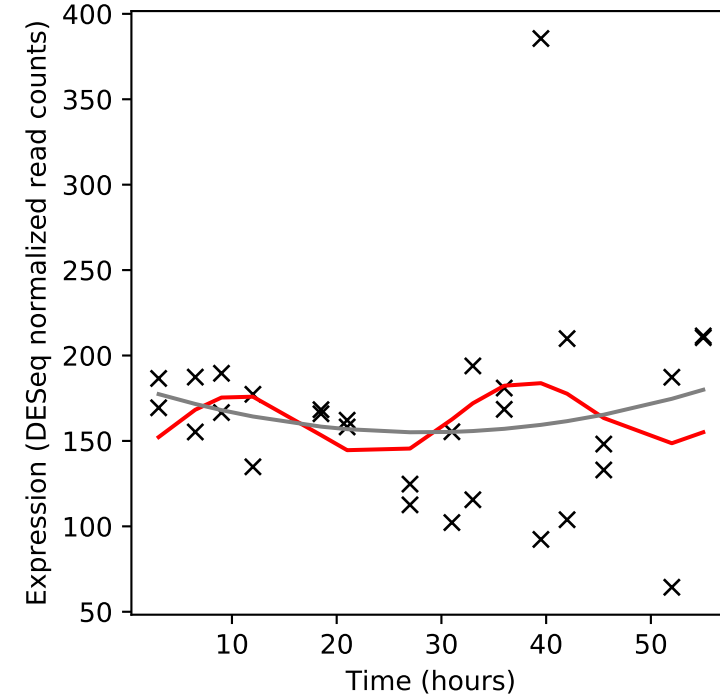
Rv2127/ansP1



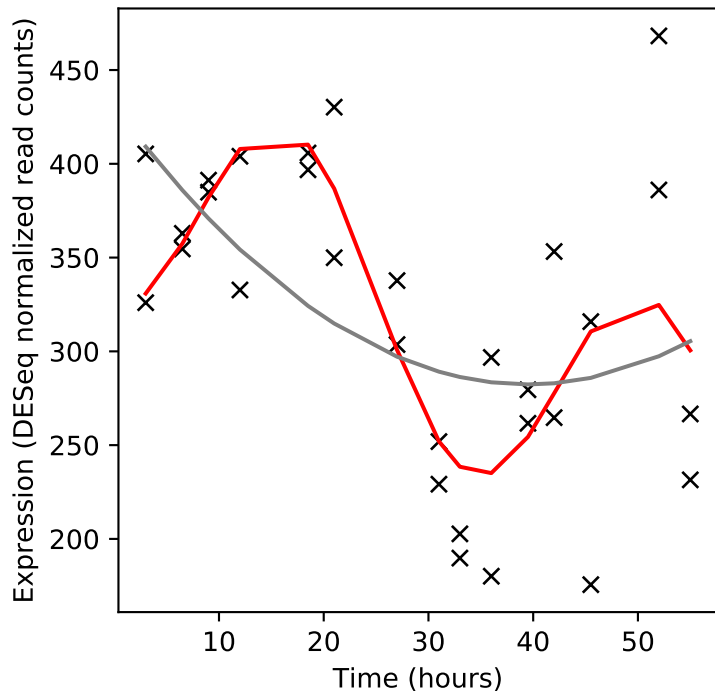
Rv2128/-



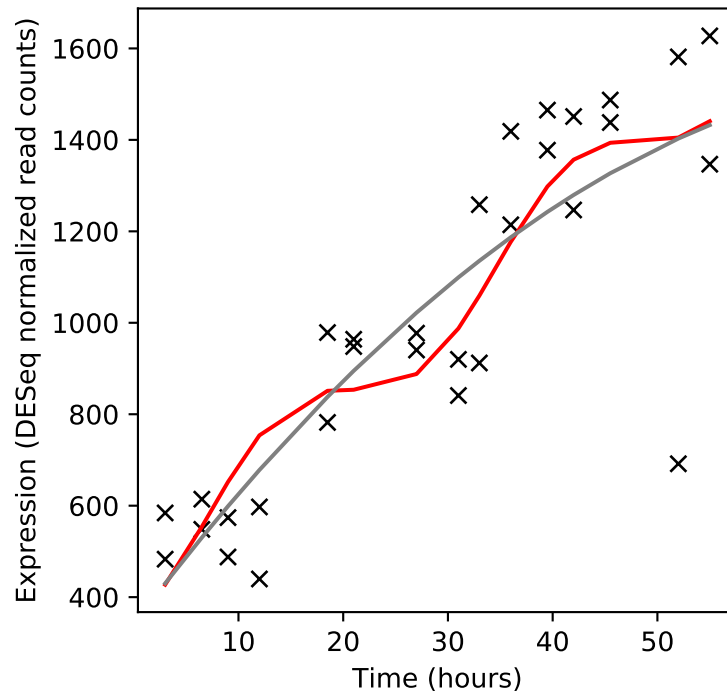
Rv2129c/-



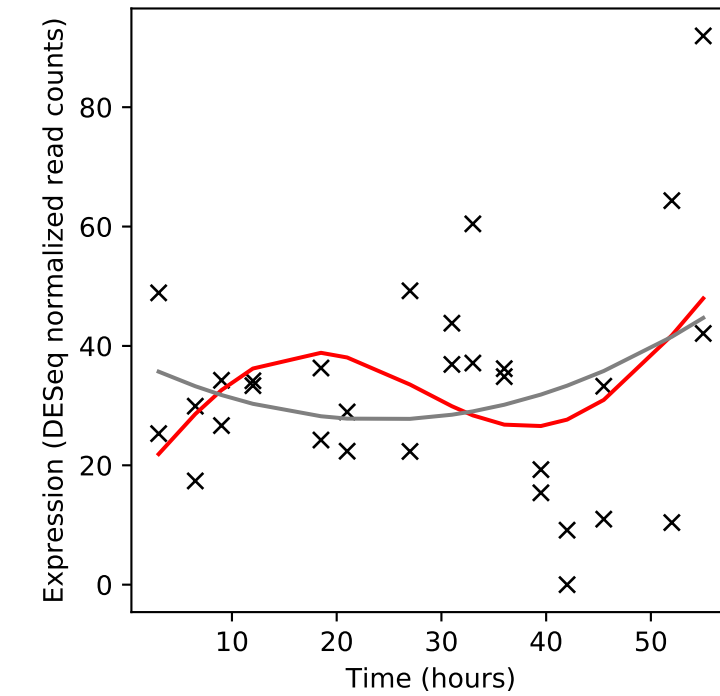
Rv2130c/mshC



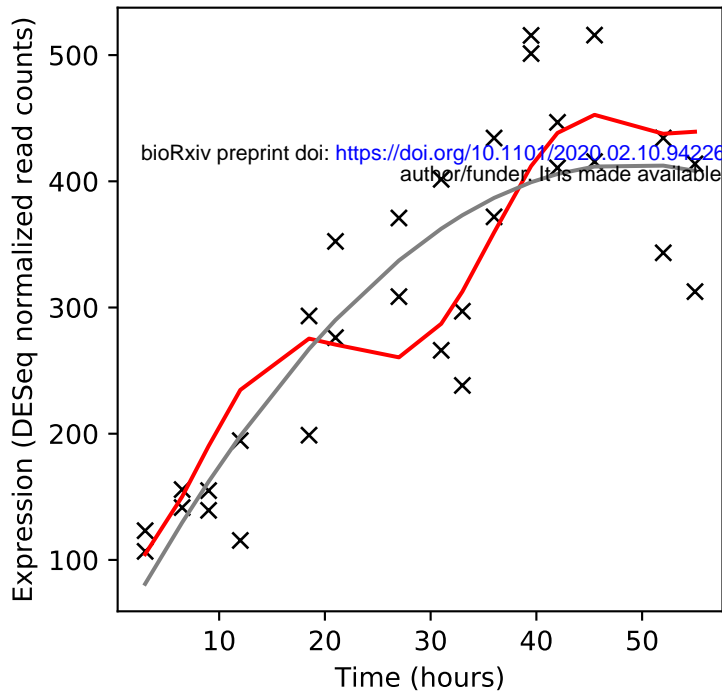
Rv2131c/cysQ



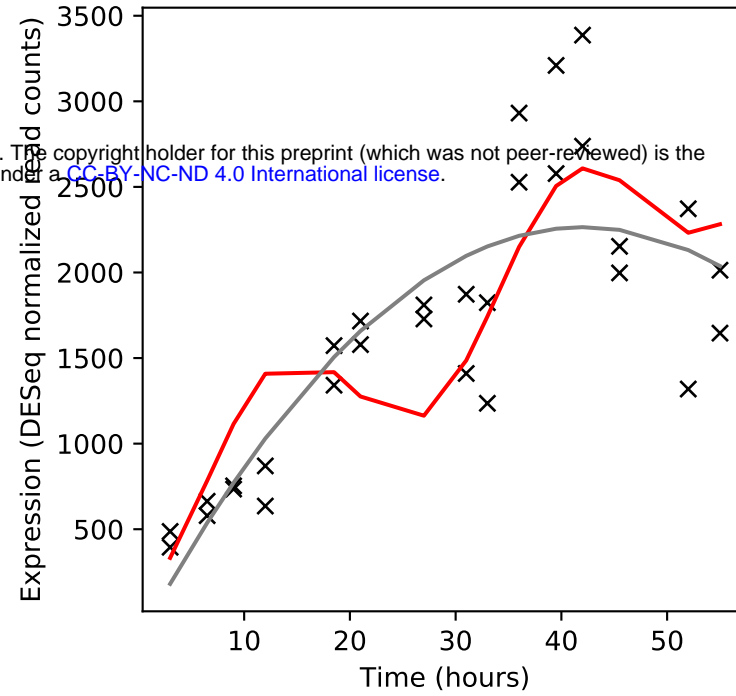
Rv2132/-



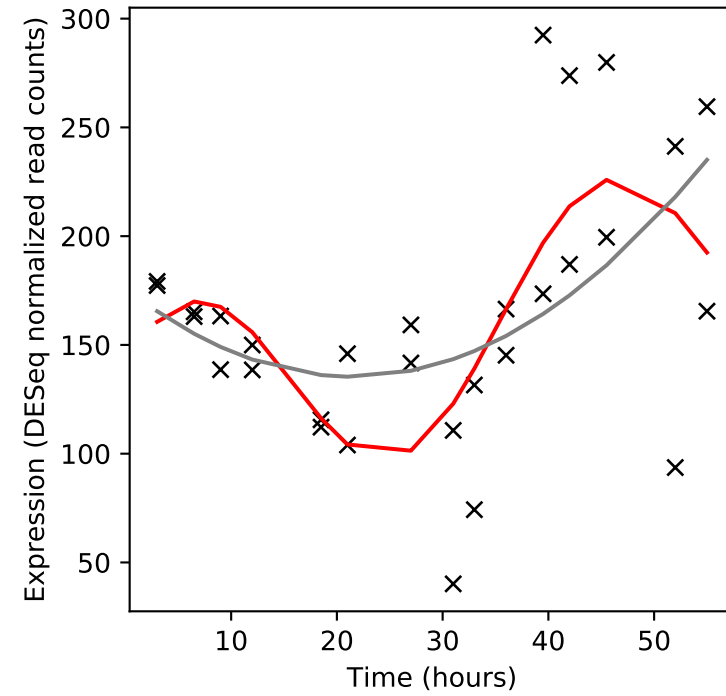
Rv2133c/-



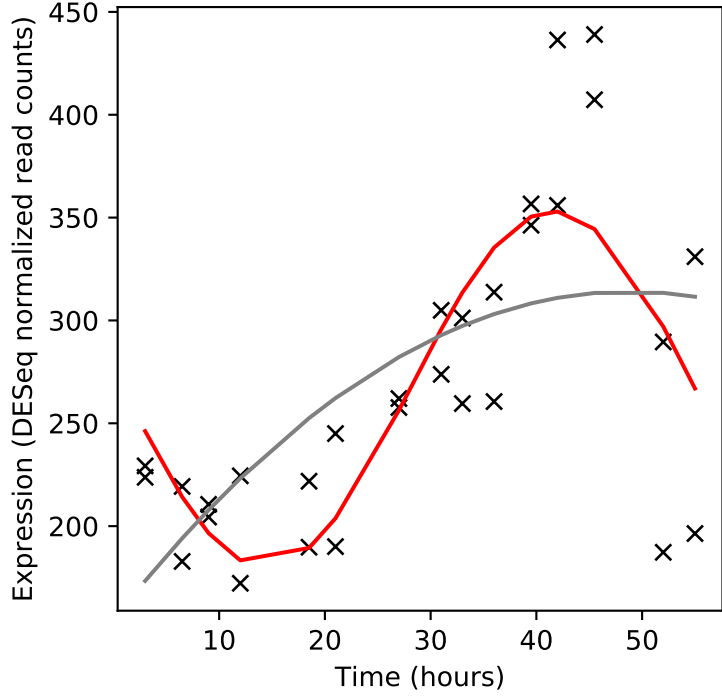
Rv2134c/-



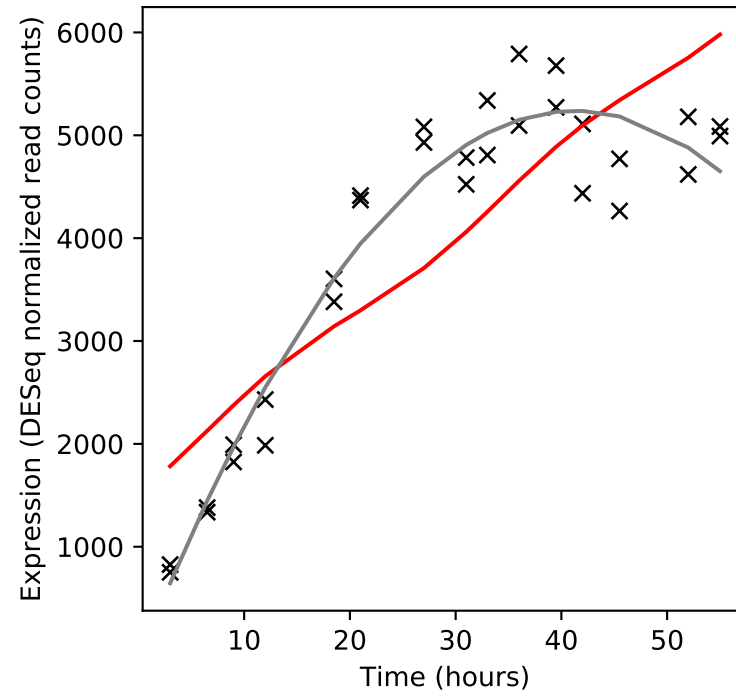
Rv2135c/-



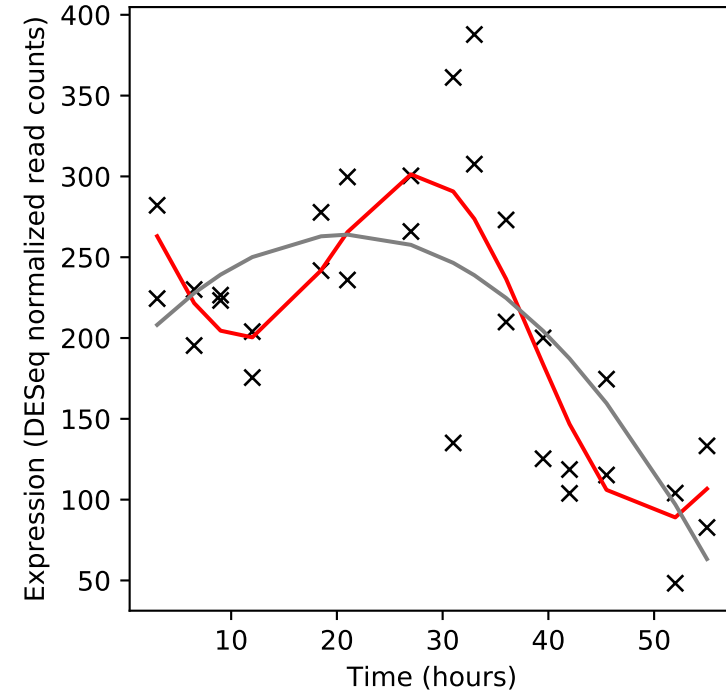
Rv2136c/-



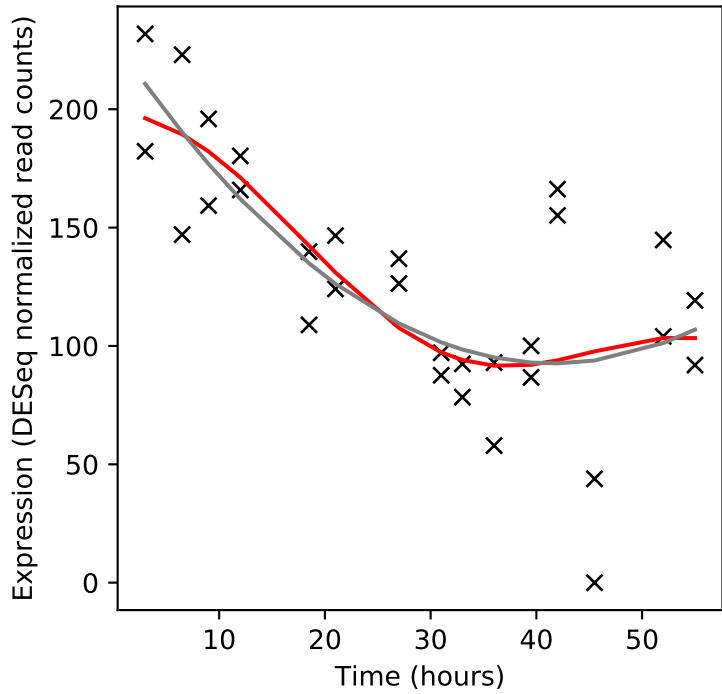
Rv2137c/-



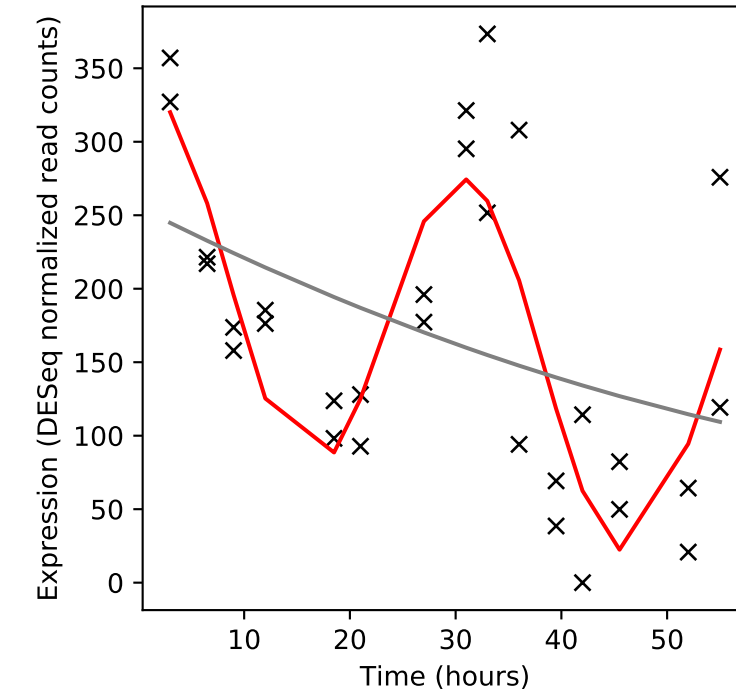
Rv2138/lppL



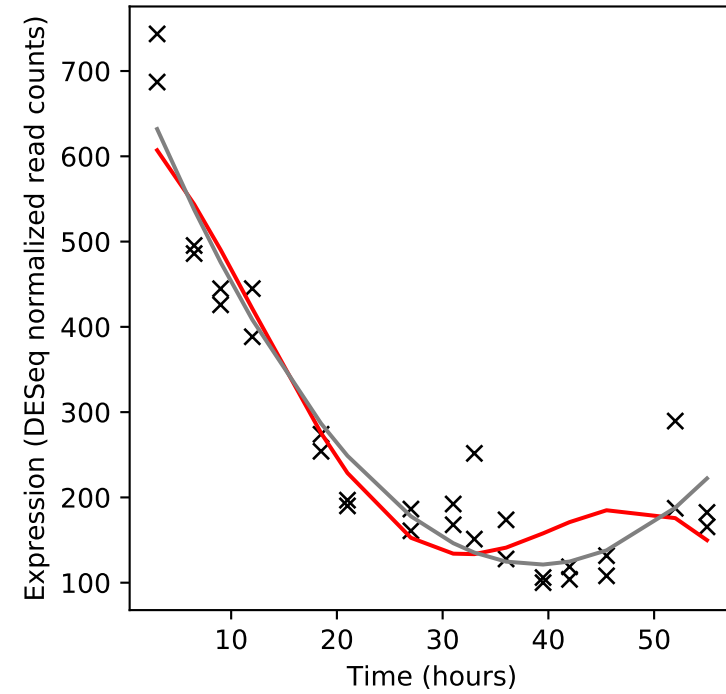
Rv2139/pyrD



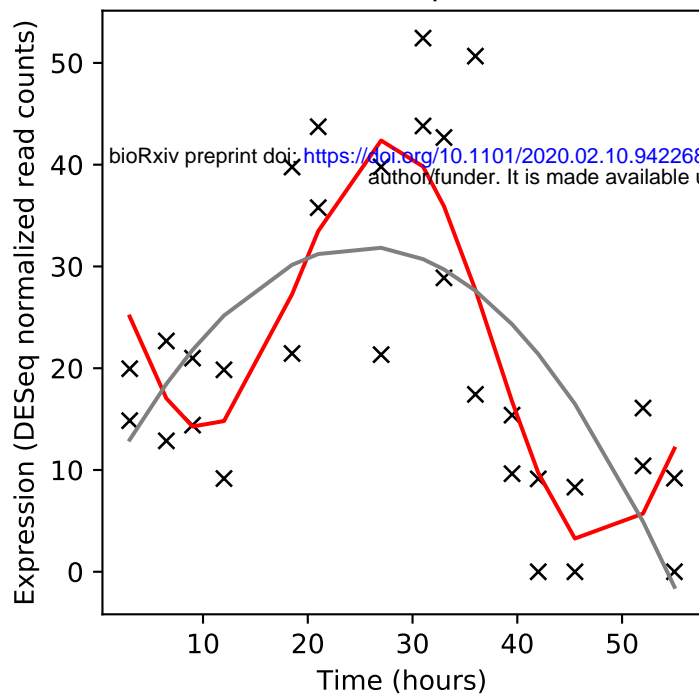
Rv2140c/TB18.6



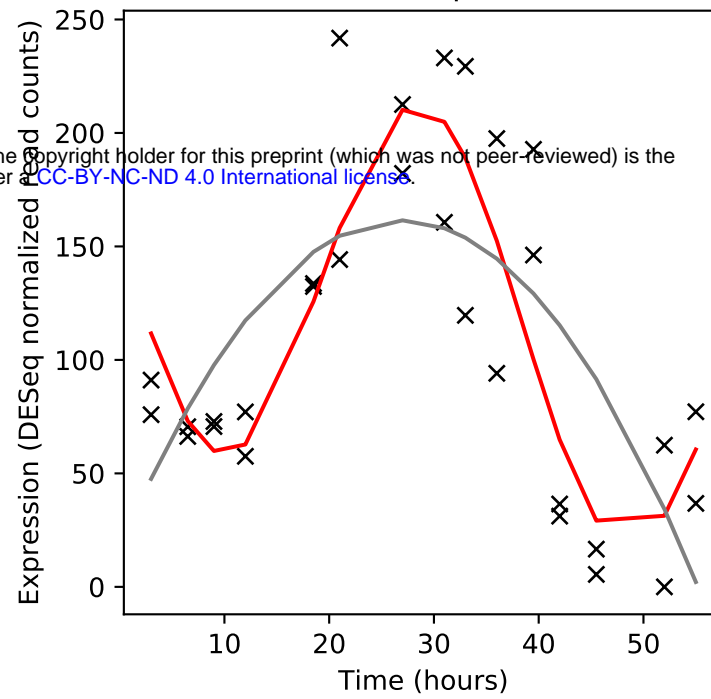
Rv2141c/-



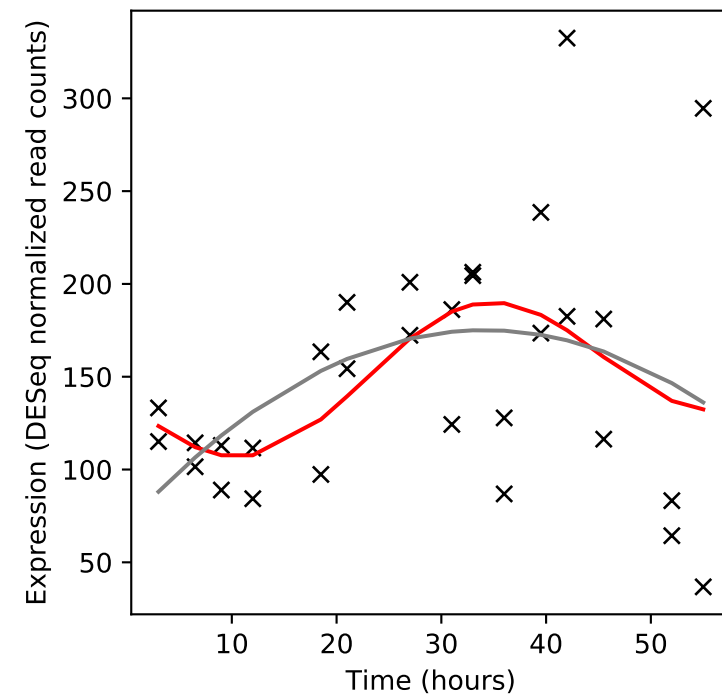
Rv2142c/parE2



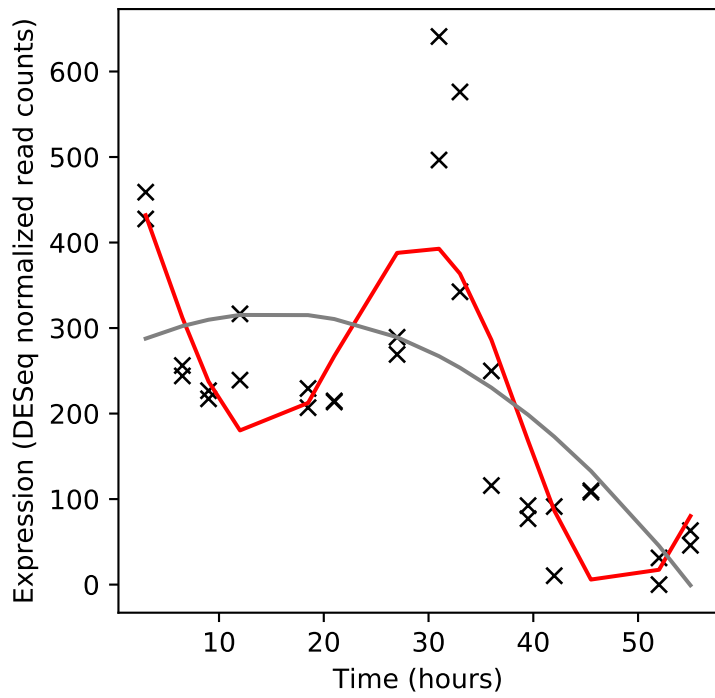
Rv2142A/parD2



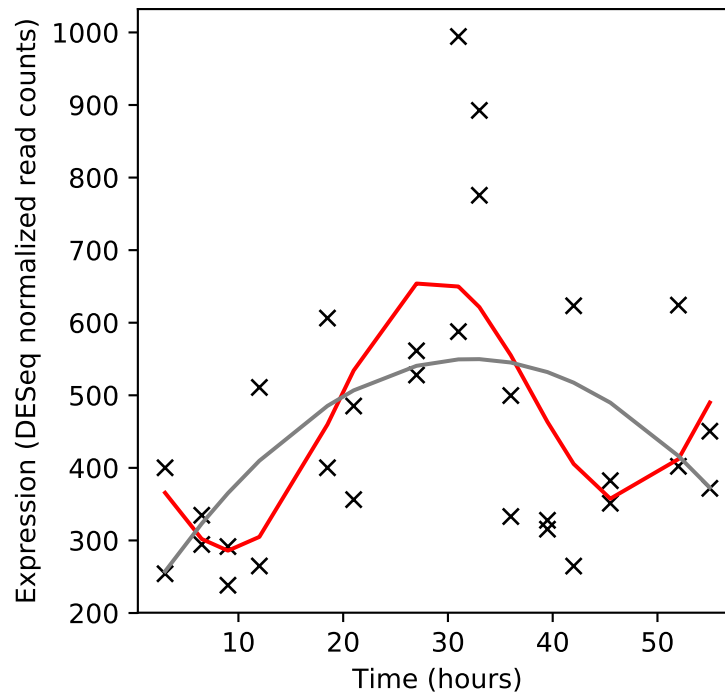
Rv2143/-



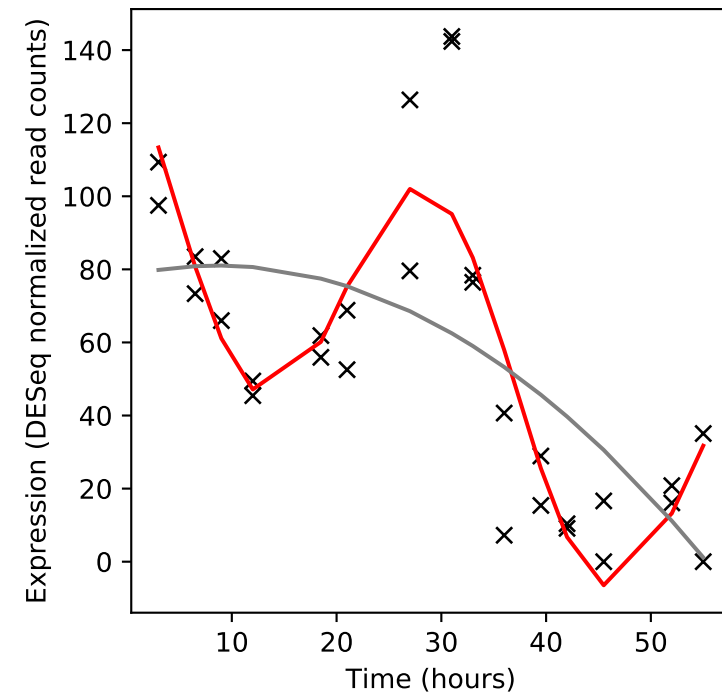
Rv2144c/-



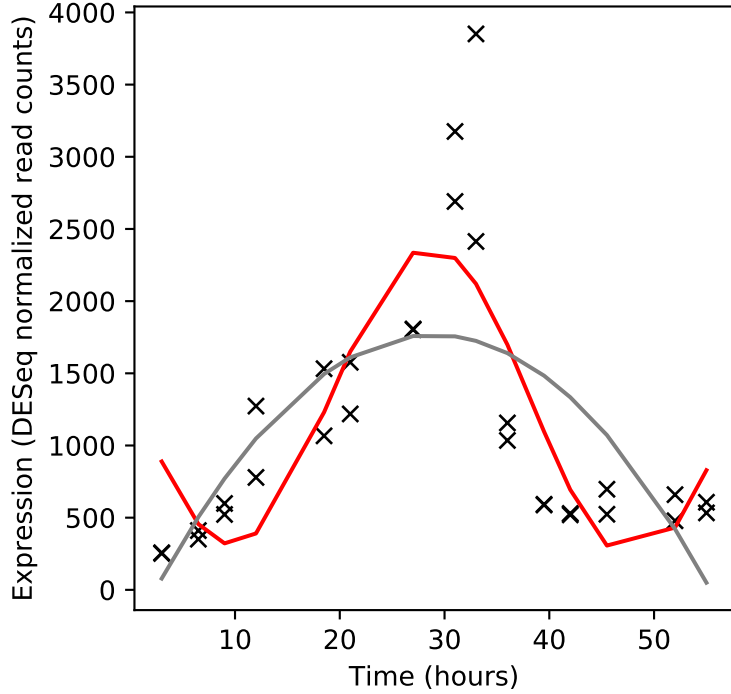
Rv2145c/wag31



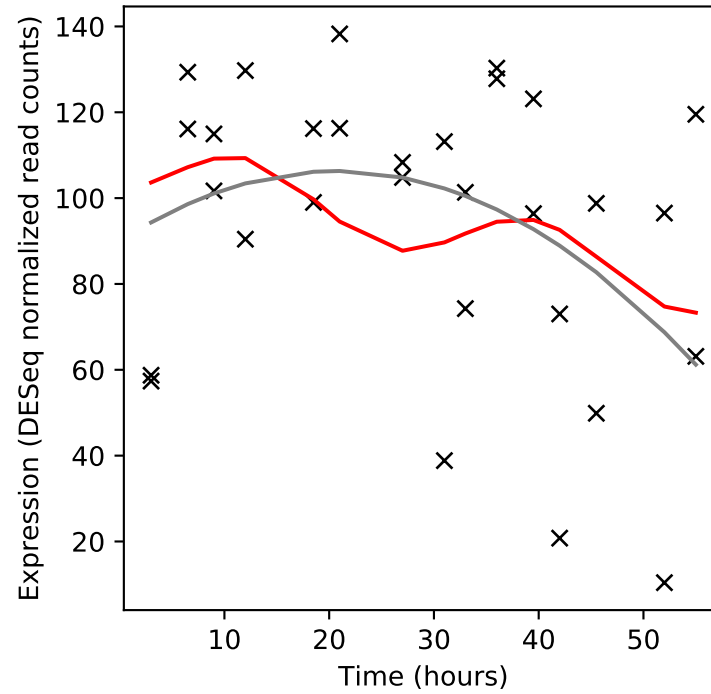
Rv2146c/-



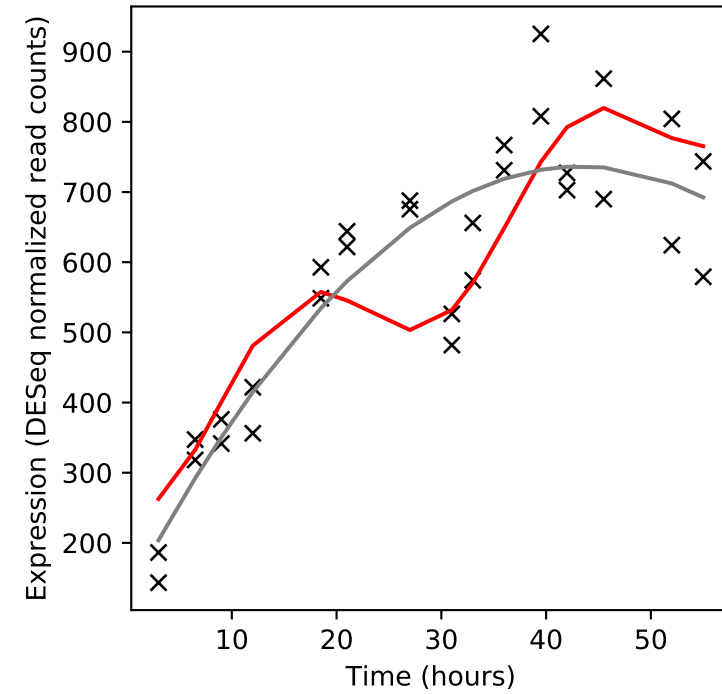
Rv2147c/-



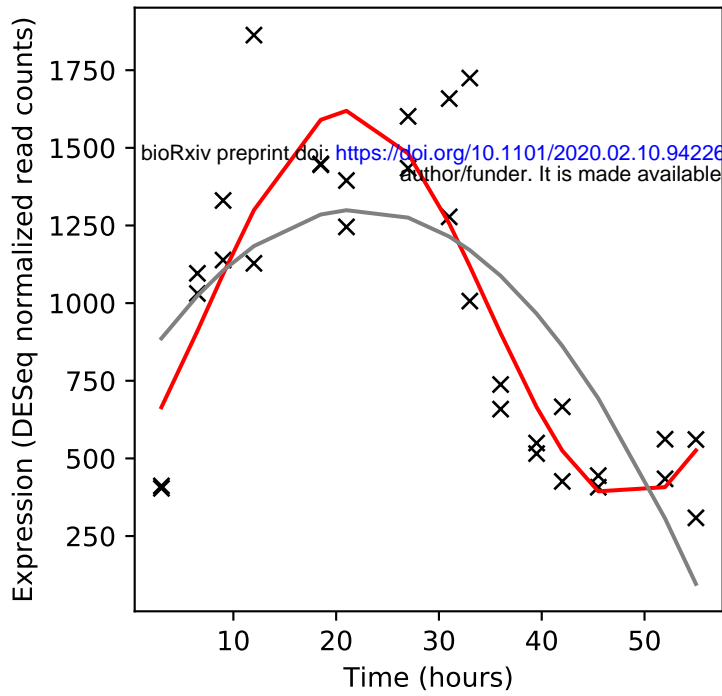
Rv2148c/-



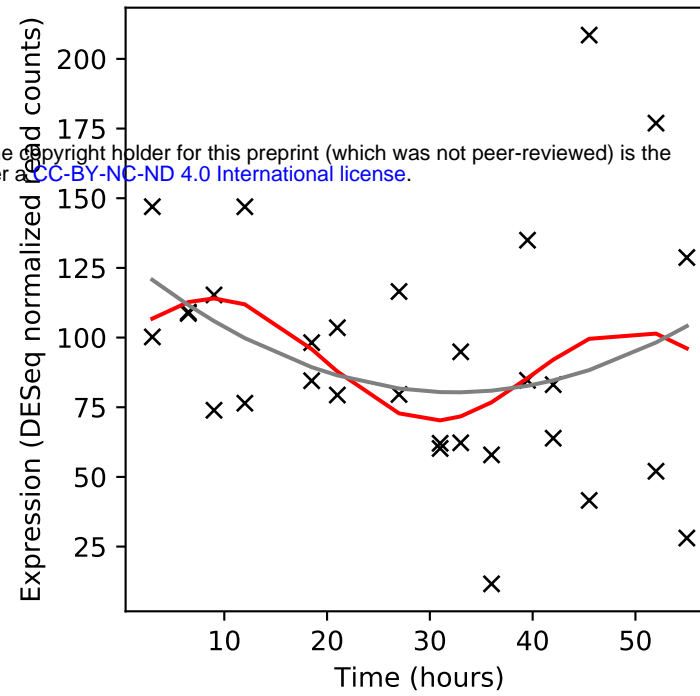
Rv2149c/yfiH



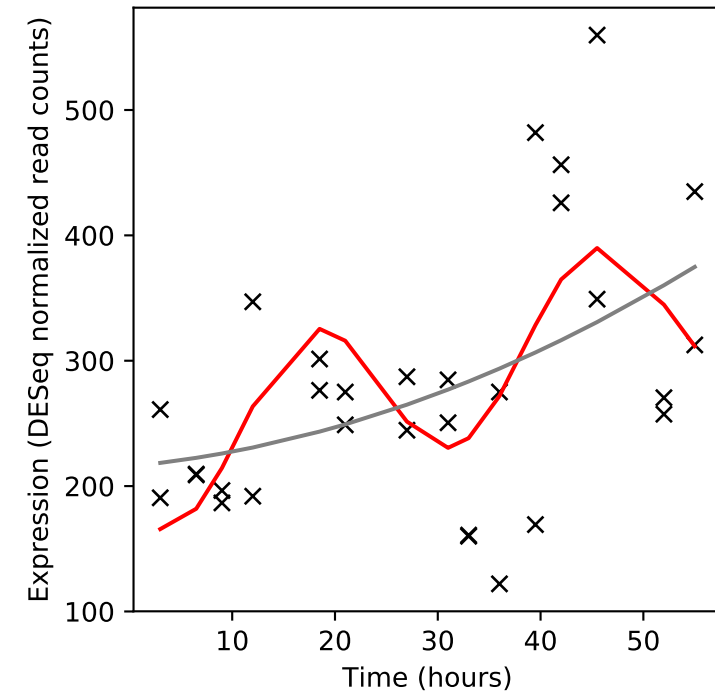
Rv2150c/ftsZ



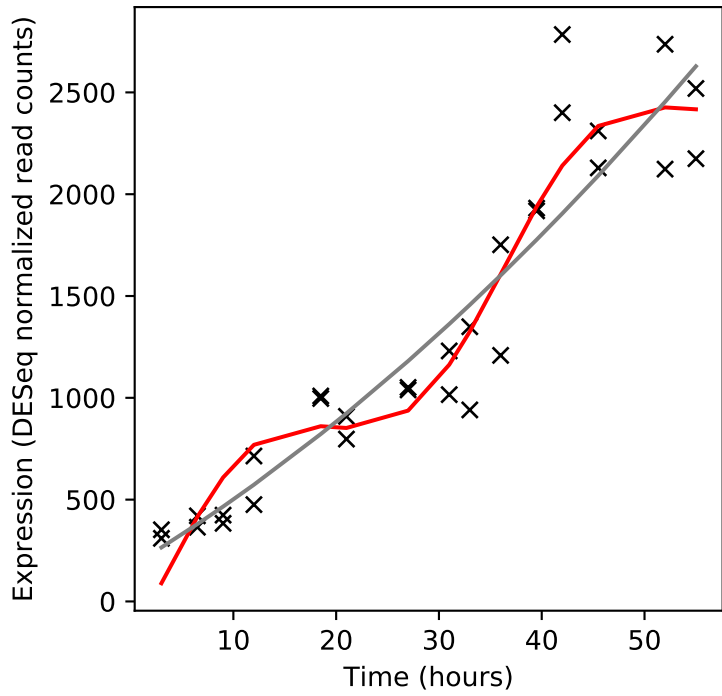
Rv2151c/ftsQ



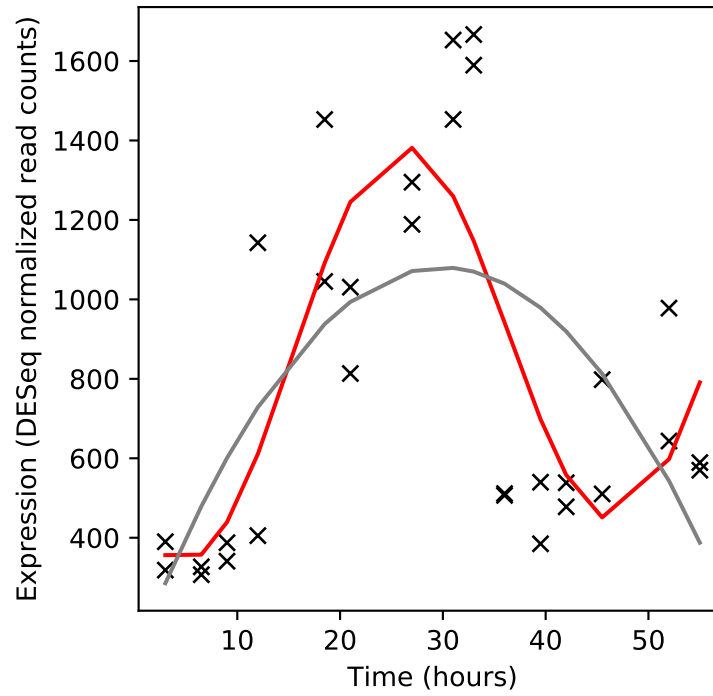
Rv2152c/murC



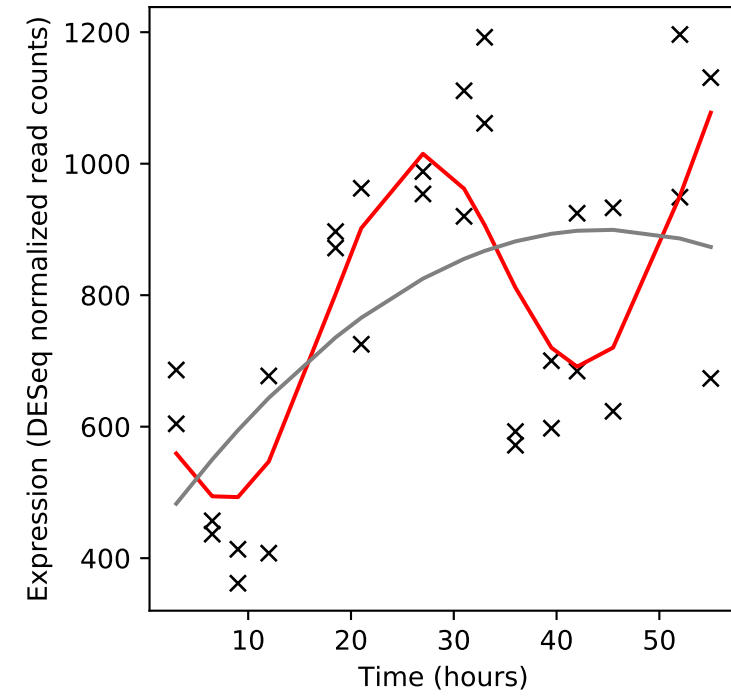
Rv2153c/murG



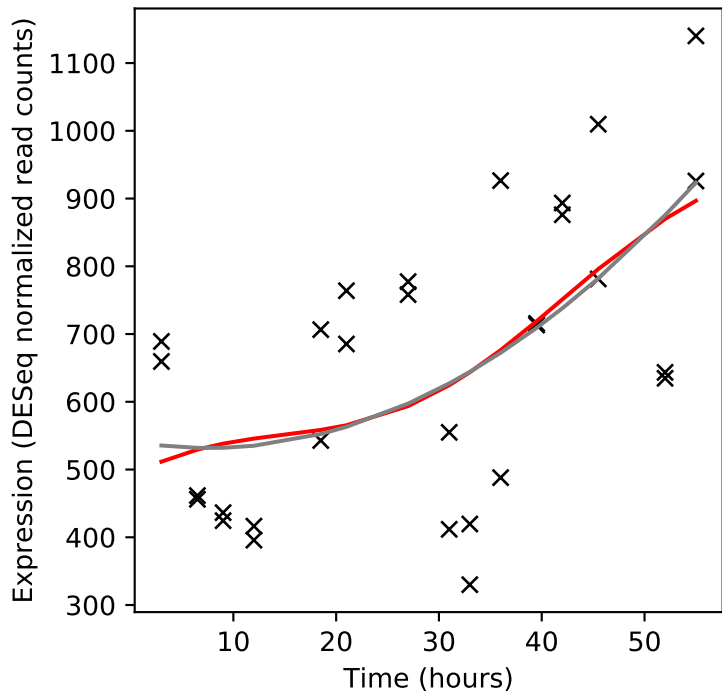
Rv2154c/ftsW



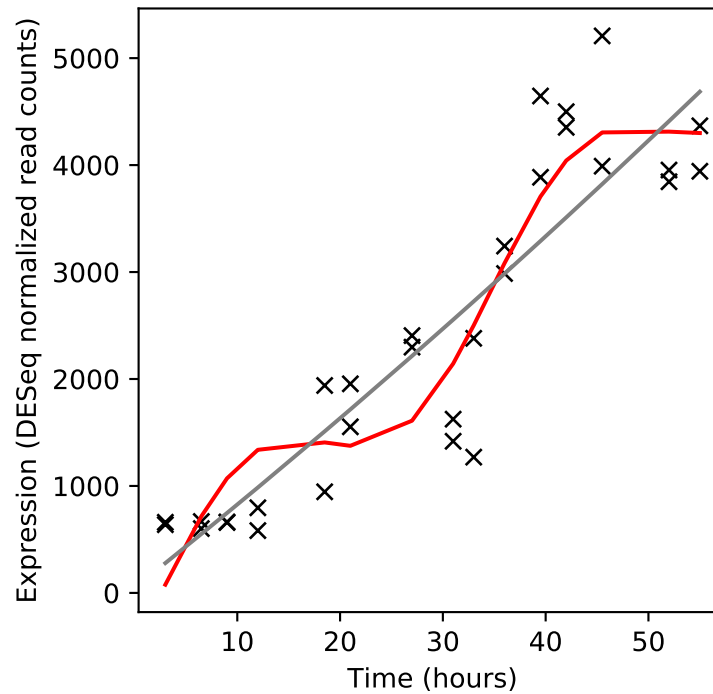
Rv2155c/murD



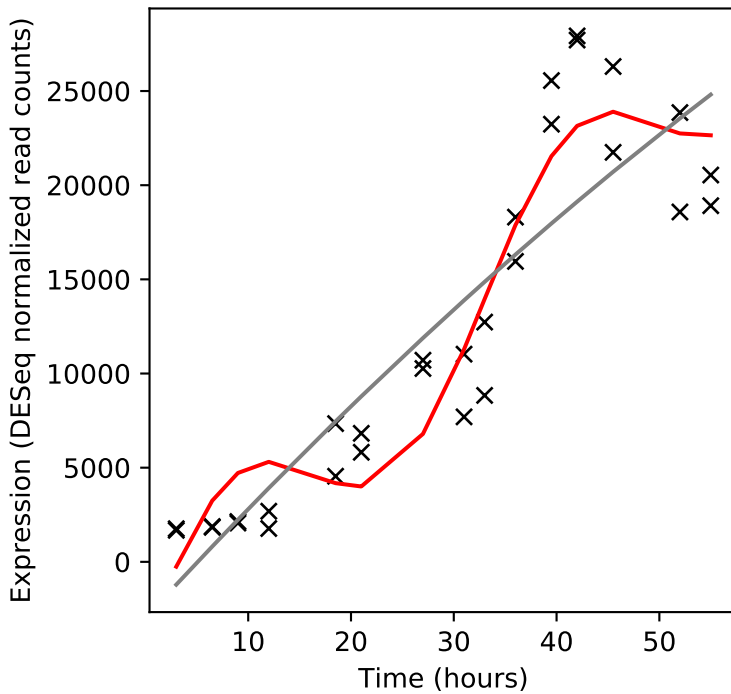
Rv2156c/murX



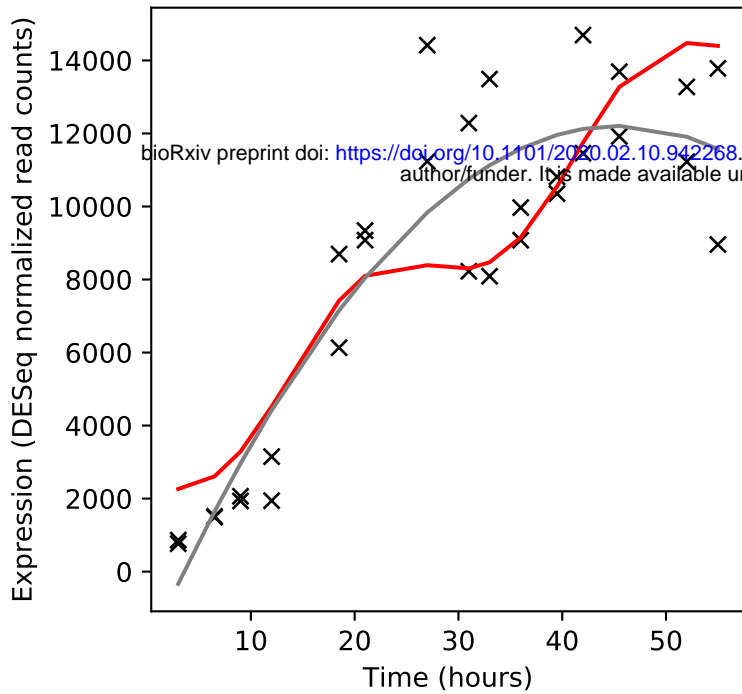
Rv2157c/murF



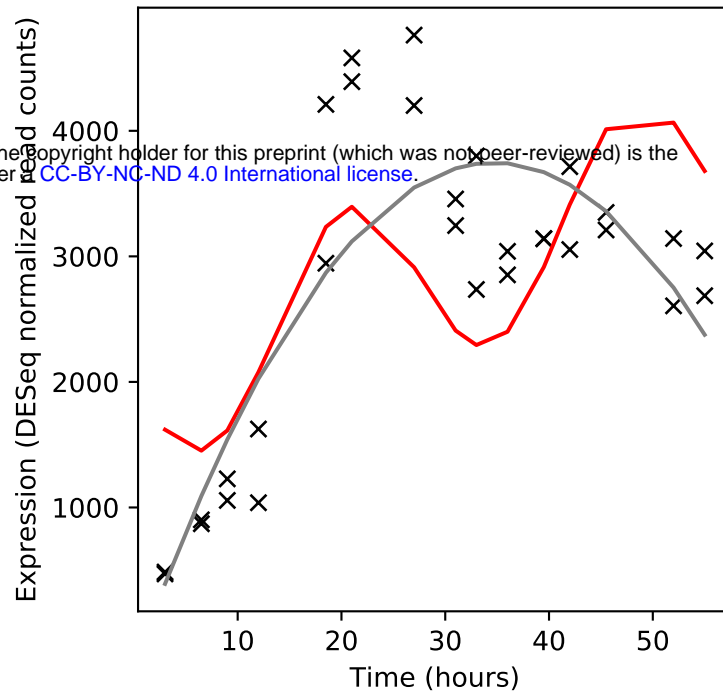
Rv2158c/murE



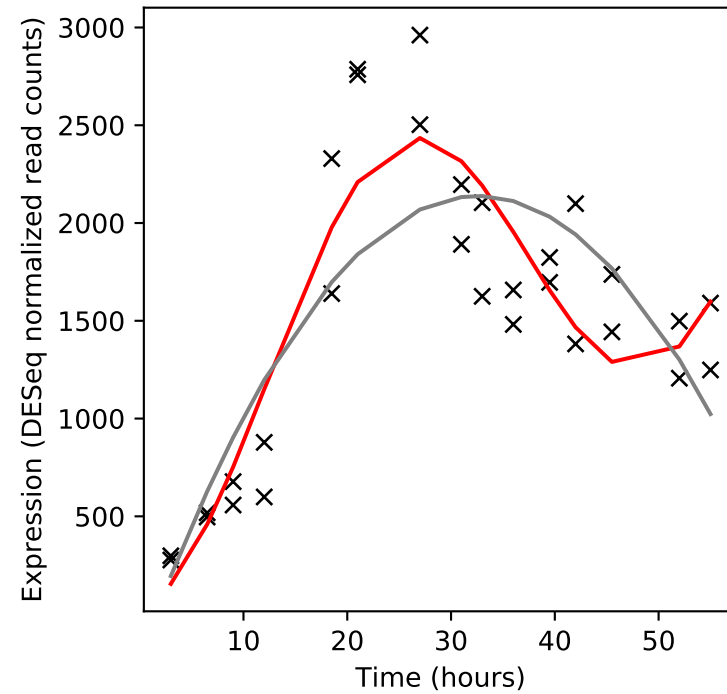
Rv2159c/-



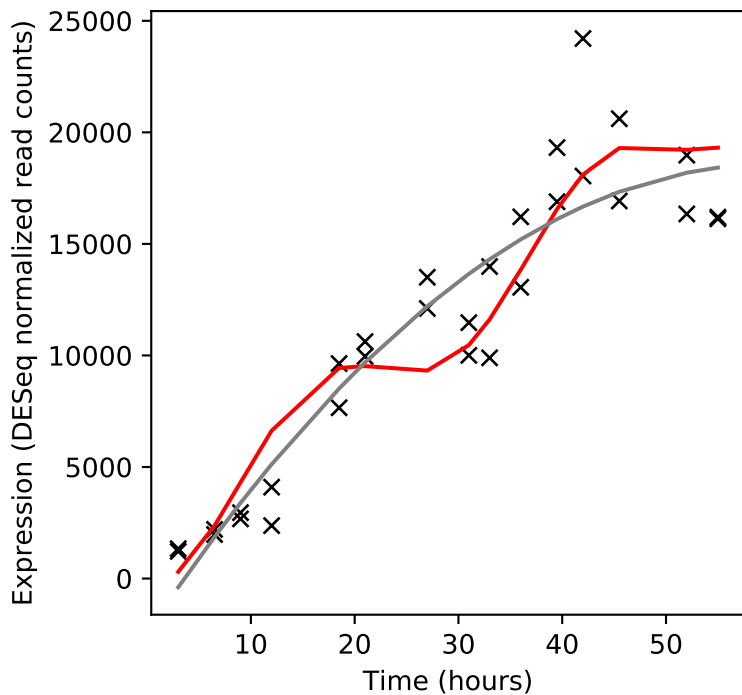
Rv2160A/-



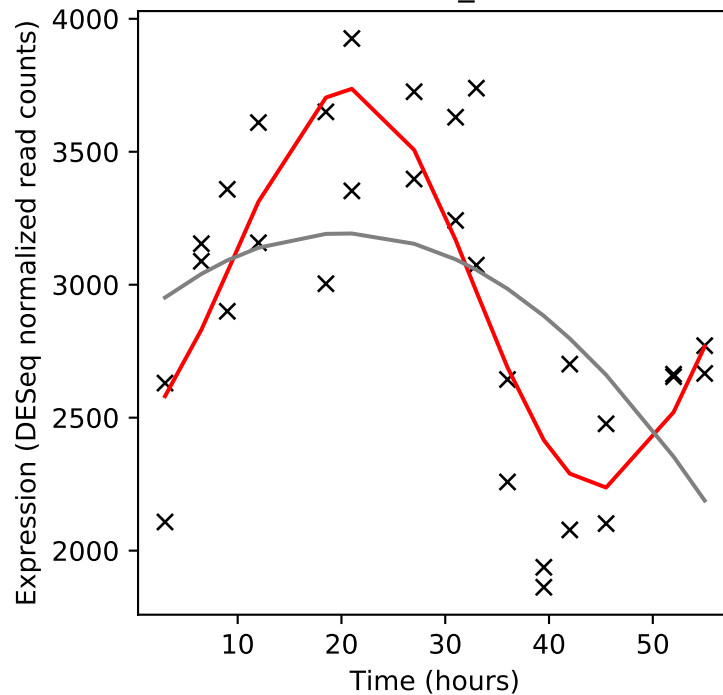
Rv2160c/-



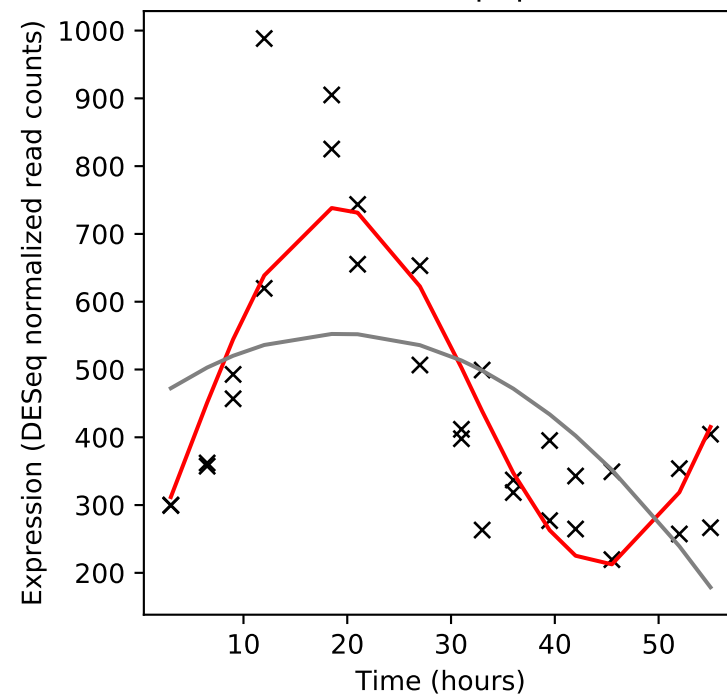
Rv2161c/-



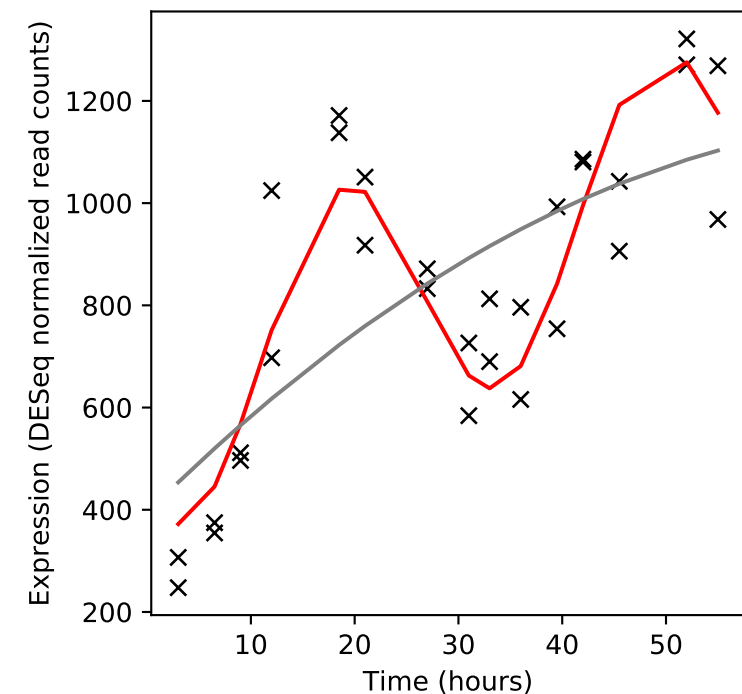
Rv2162c/PE_PGRS38



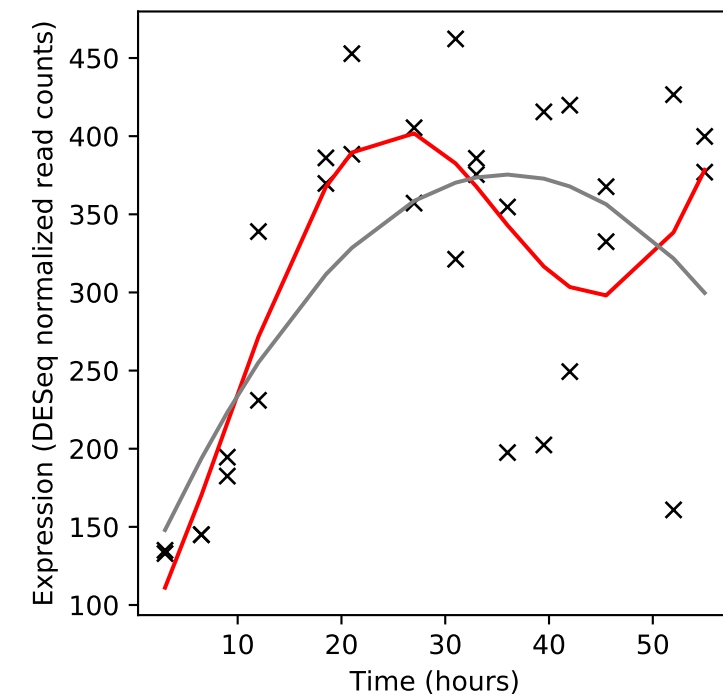
Rv2163c/pbpB



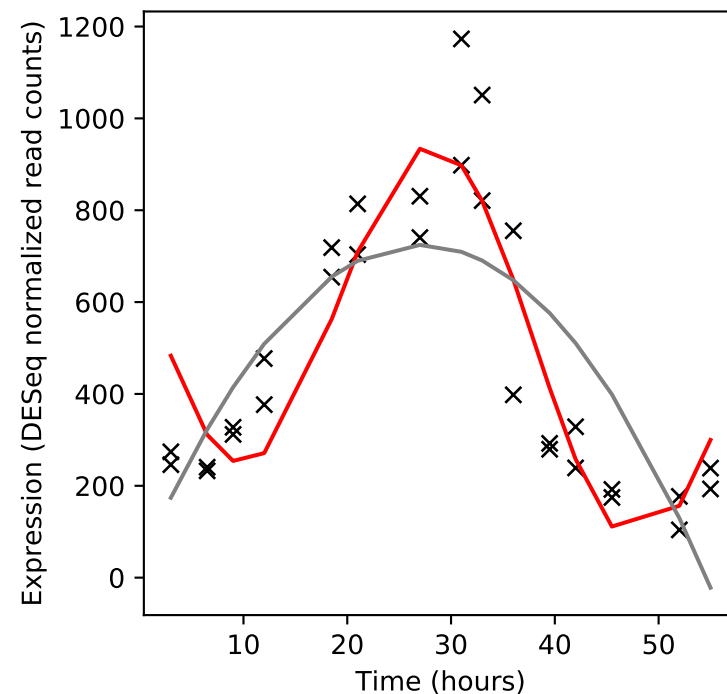
Rv2164c/-



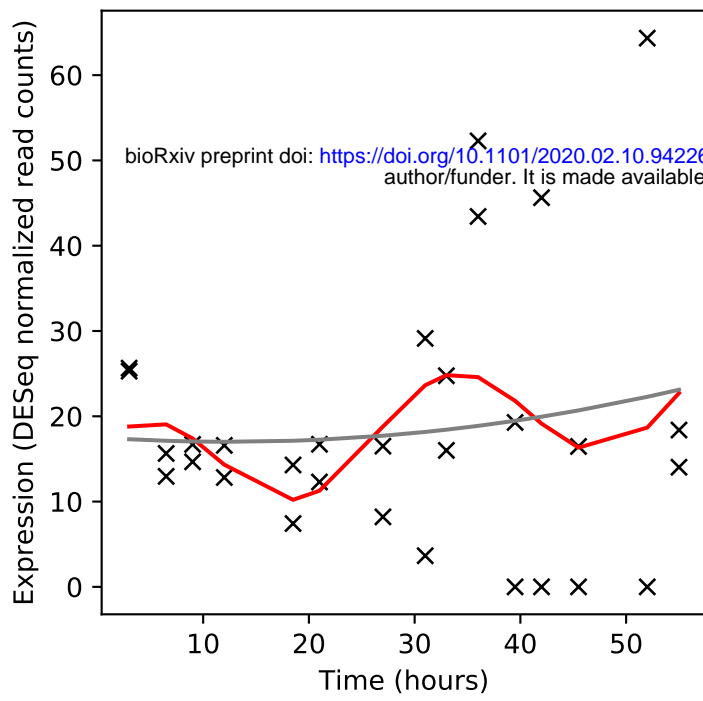
Rv2165c/-



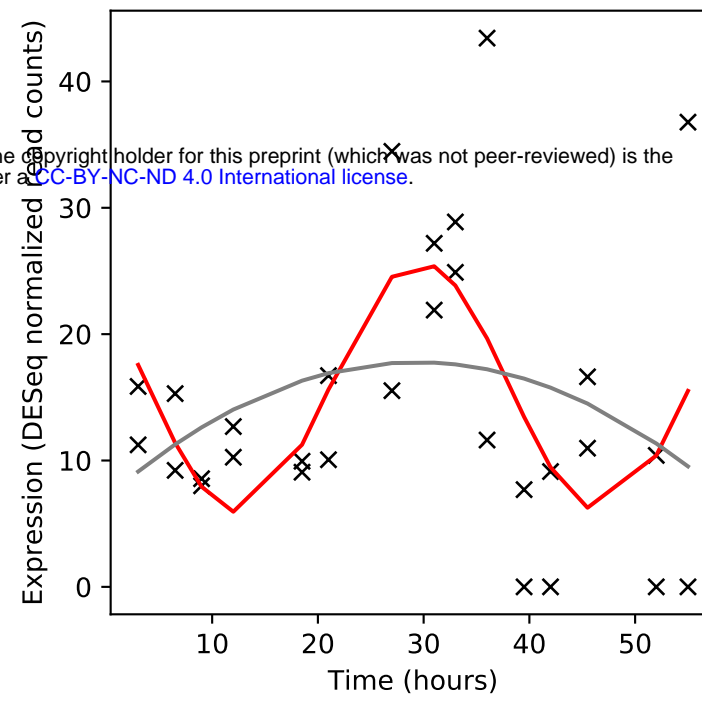
Rv2166c/-



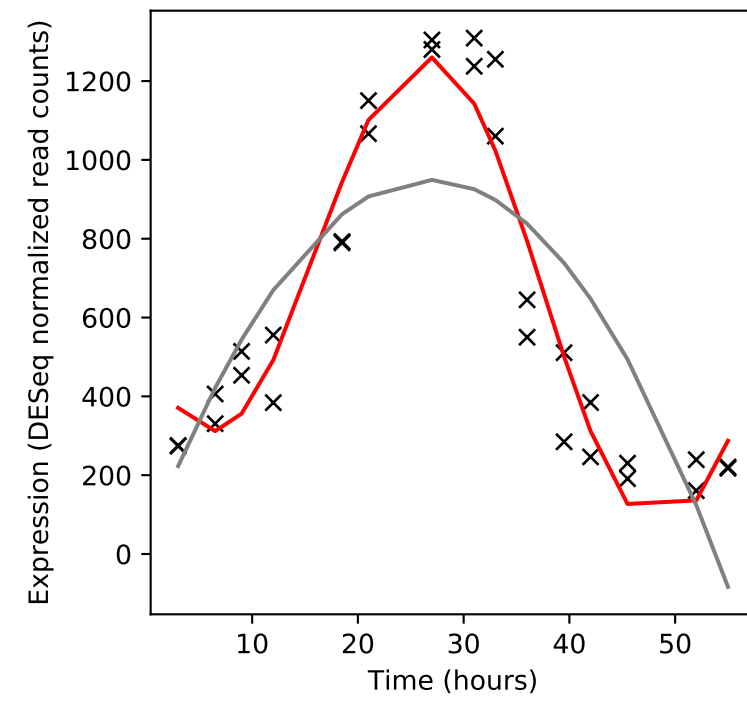
Rv2167c/-



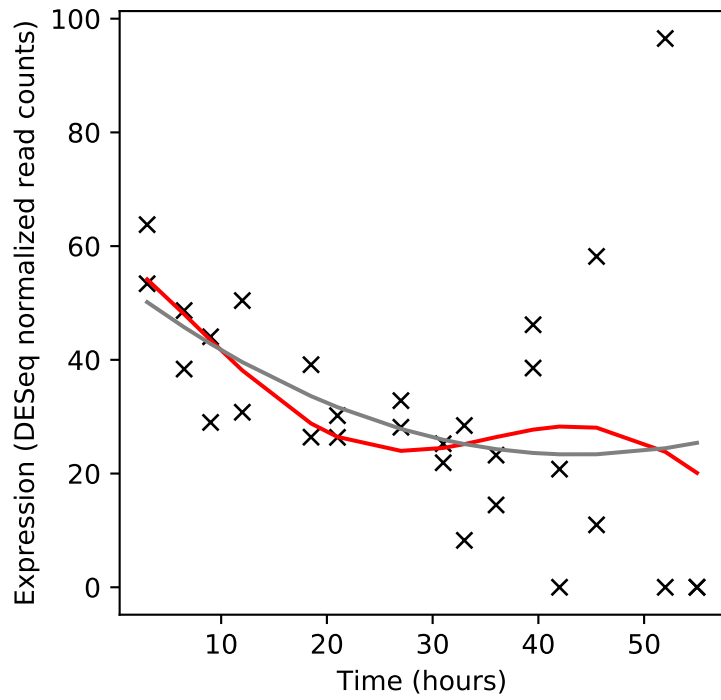
Rv2168c/-



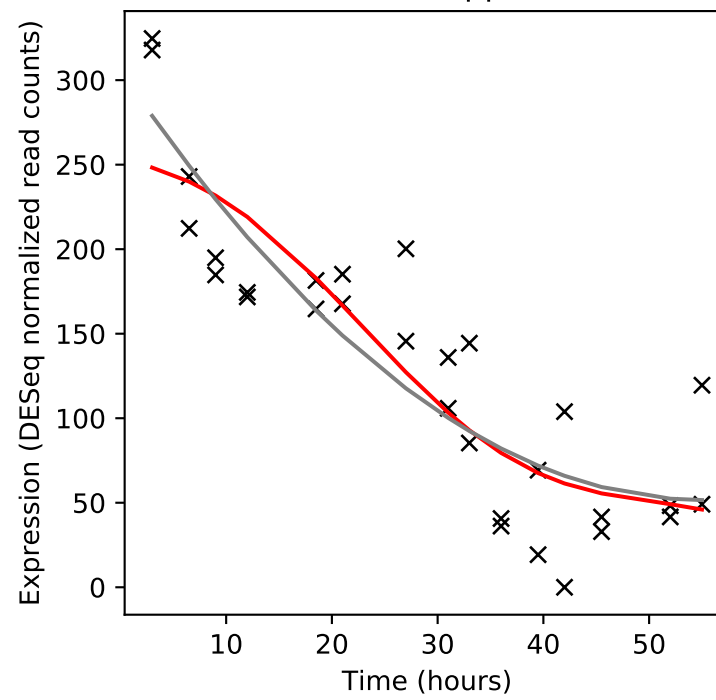
Rv2169c/-



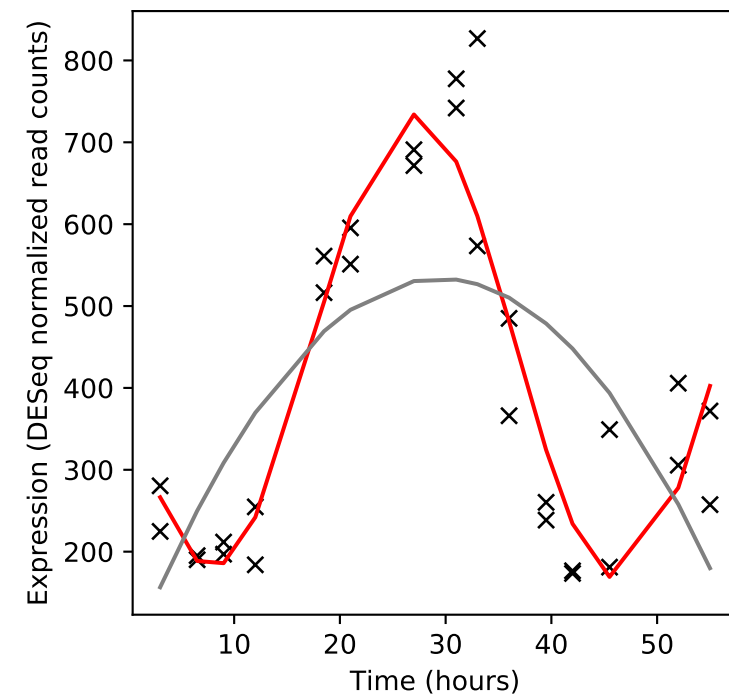
Rv2170/-



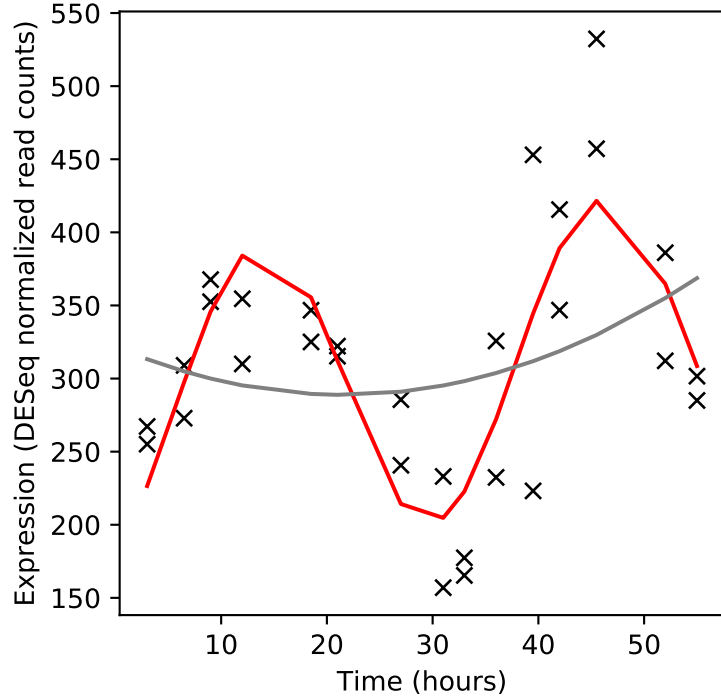
Rv2171/lppM



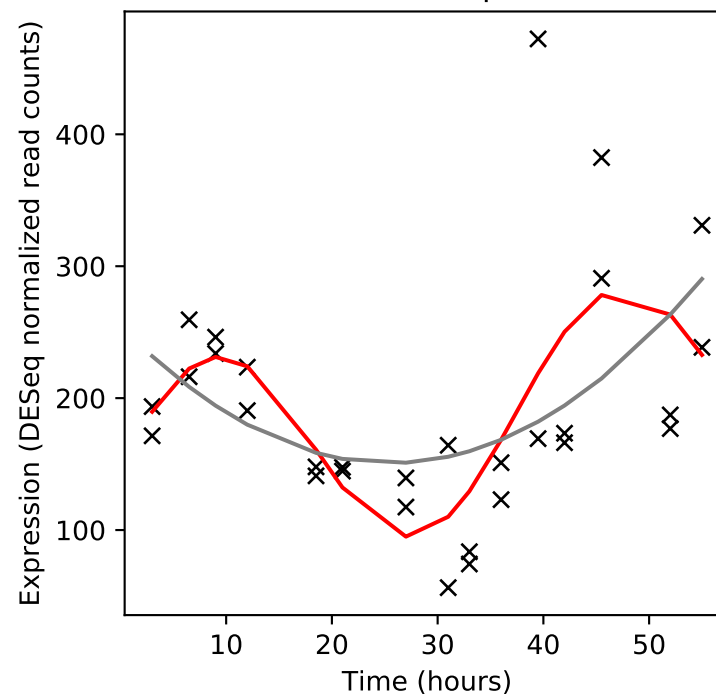
Rv2172c/-



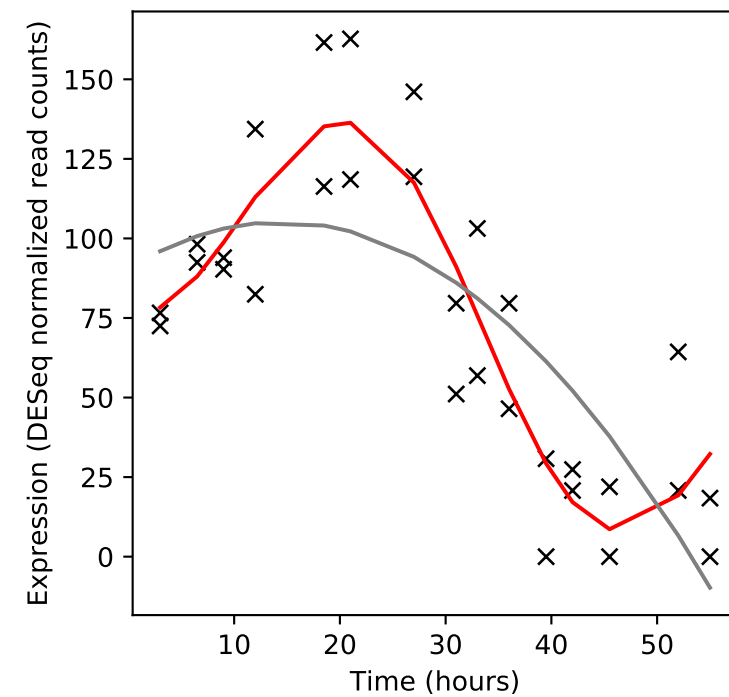
Rv2173/idsA2



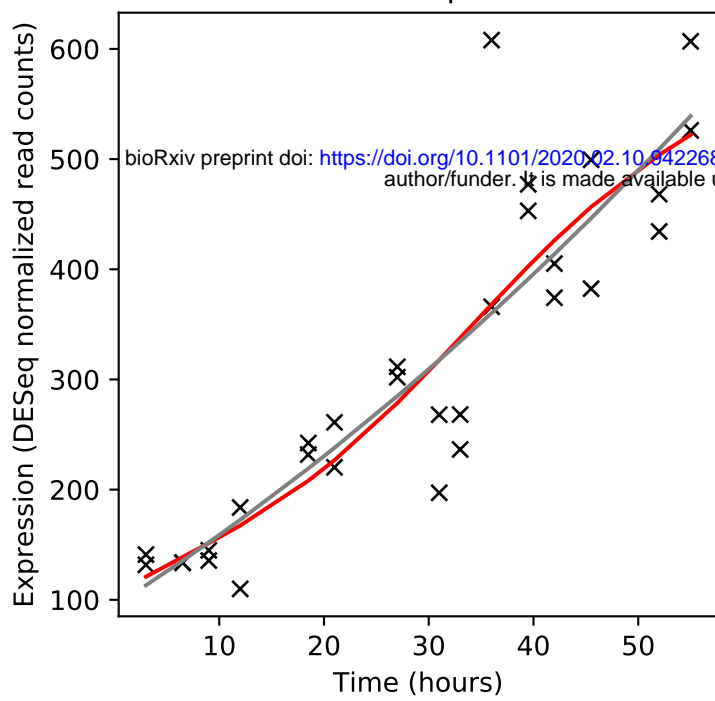
Rv2174/mptA



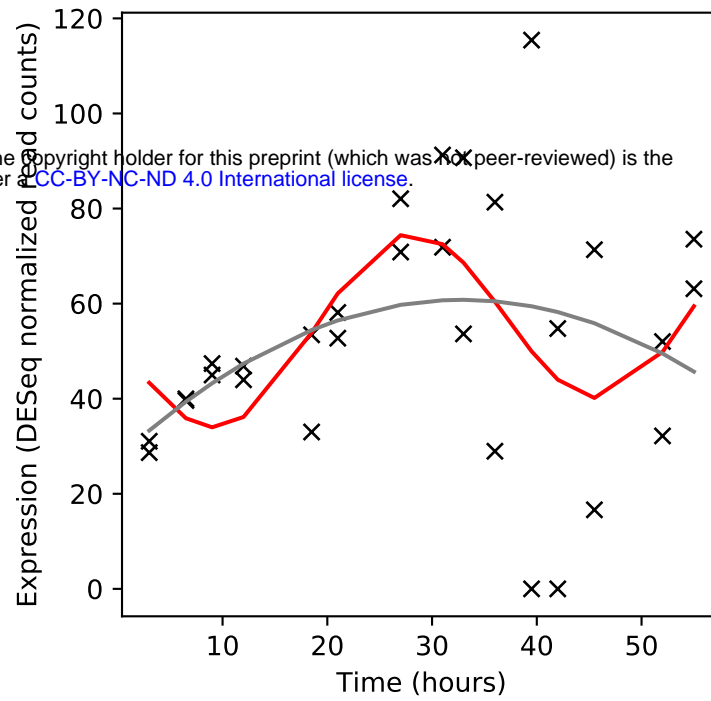
Rv2175c/-



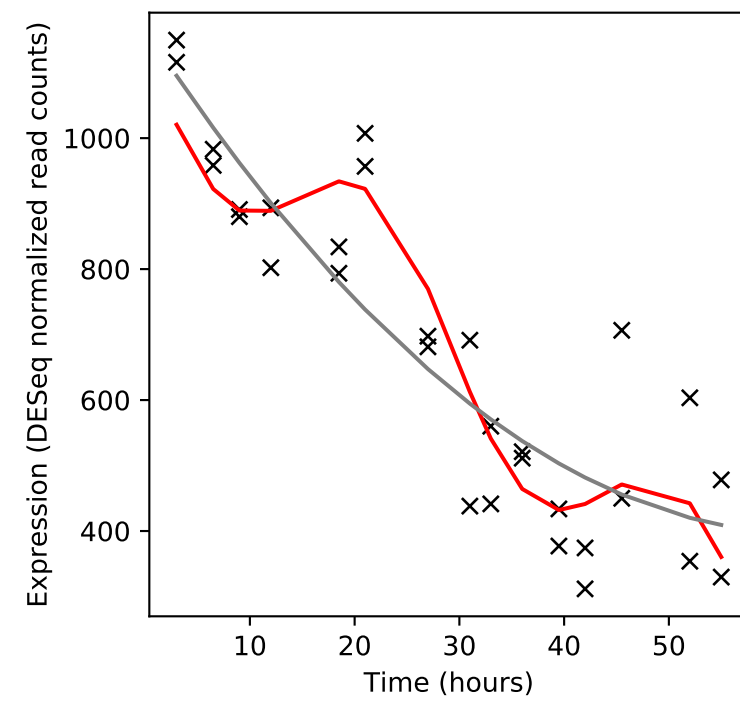
Rv2176/pknL



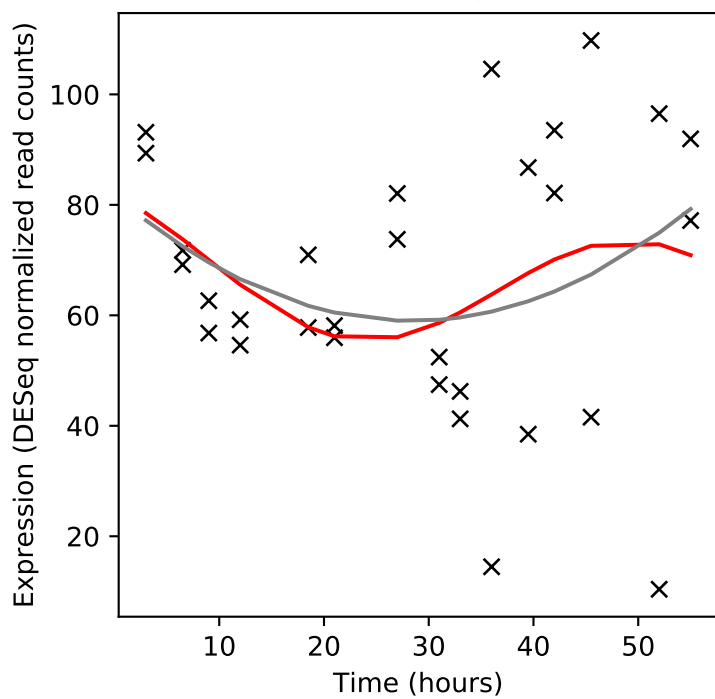
Rv2177c/-



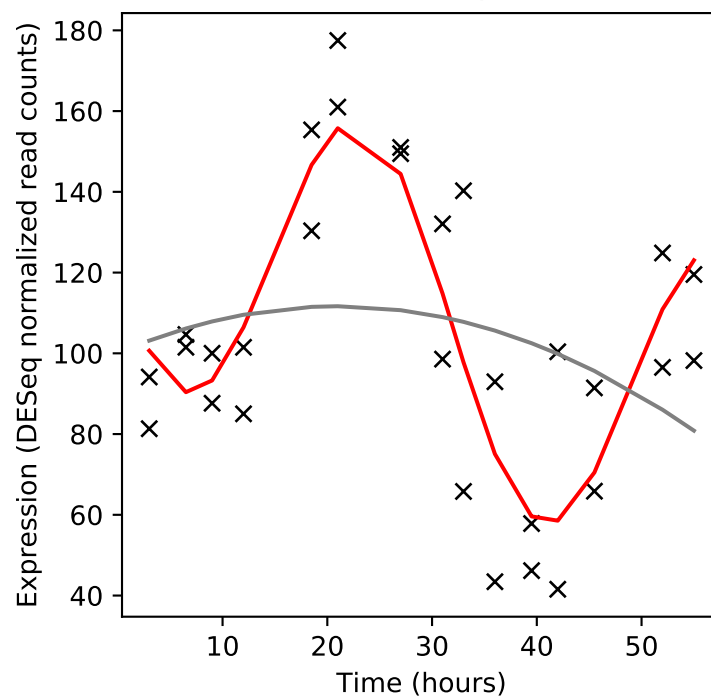
Rv2178c/aroG



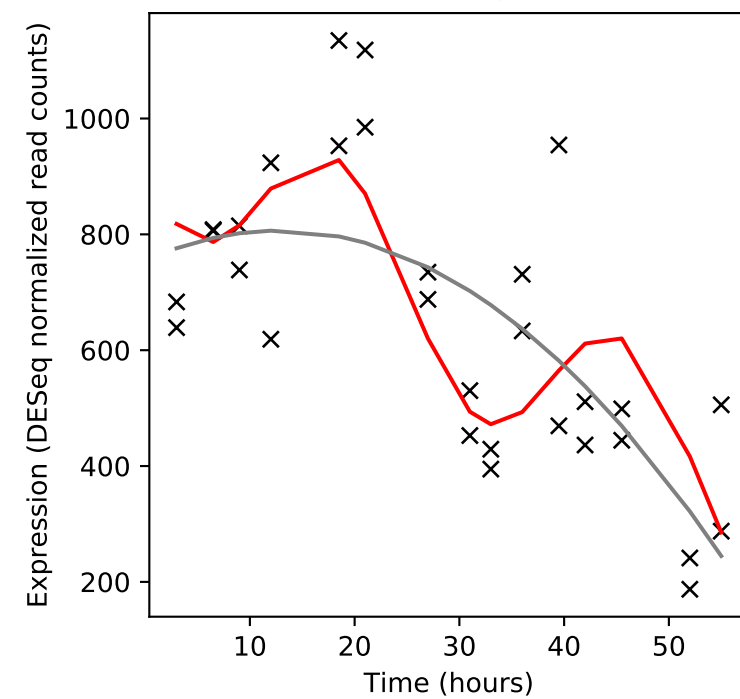
Rv2179c/-



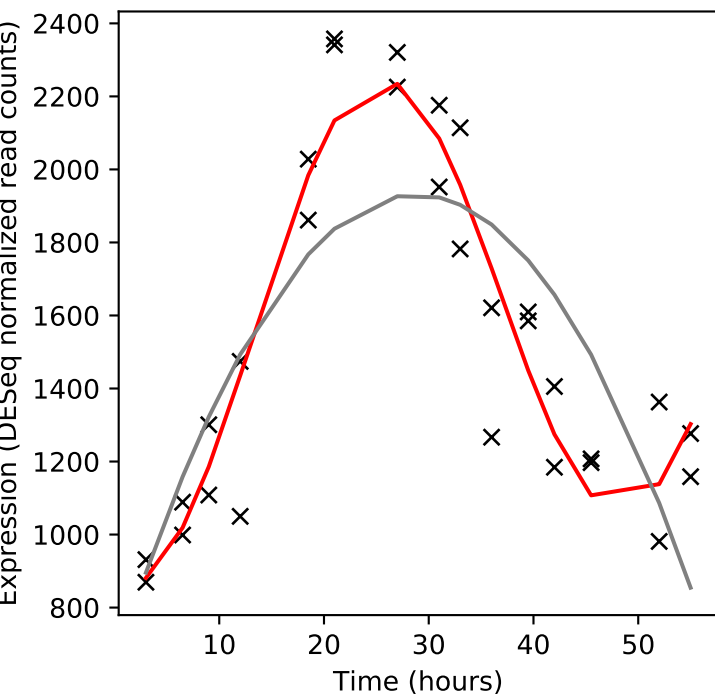
Rv2180c/-



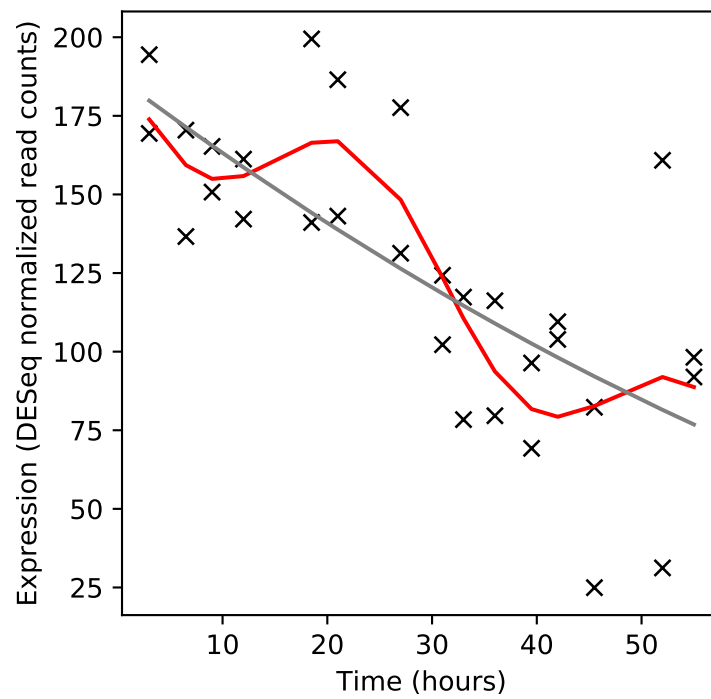
Rv2181/-



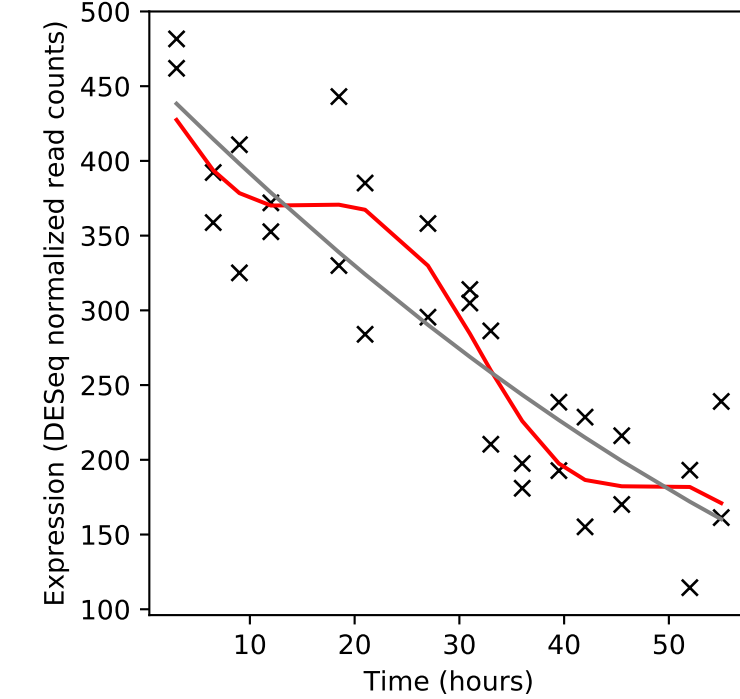
Rv2182c/-

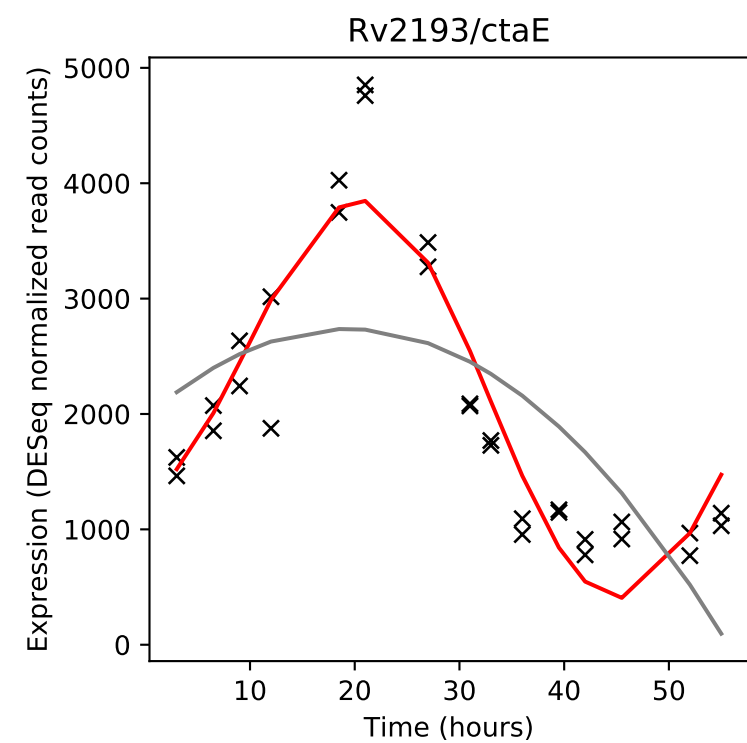
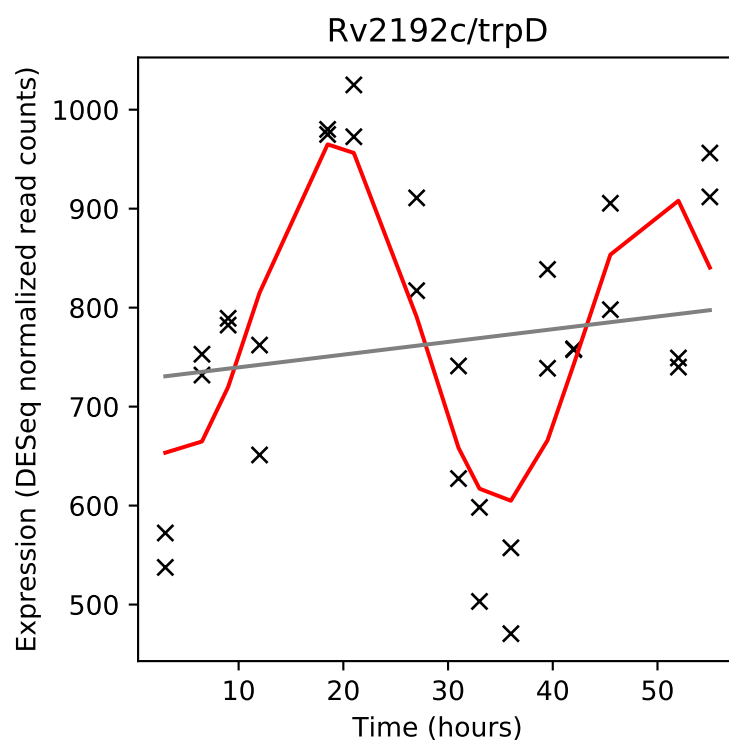
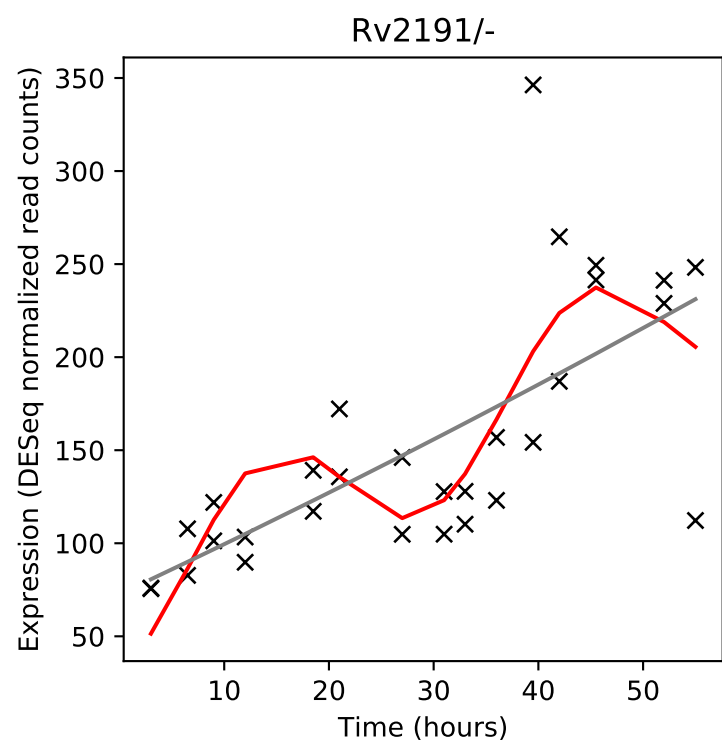
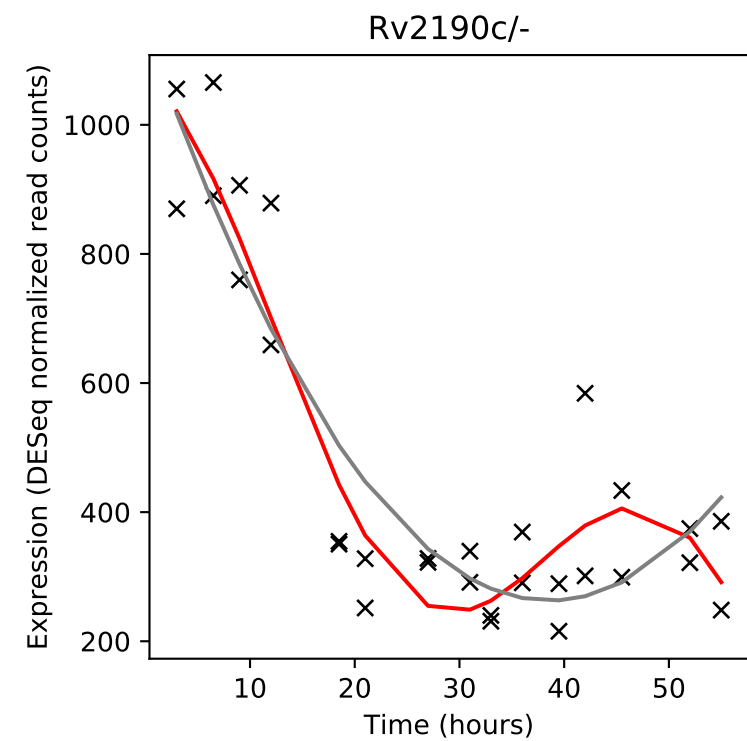
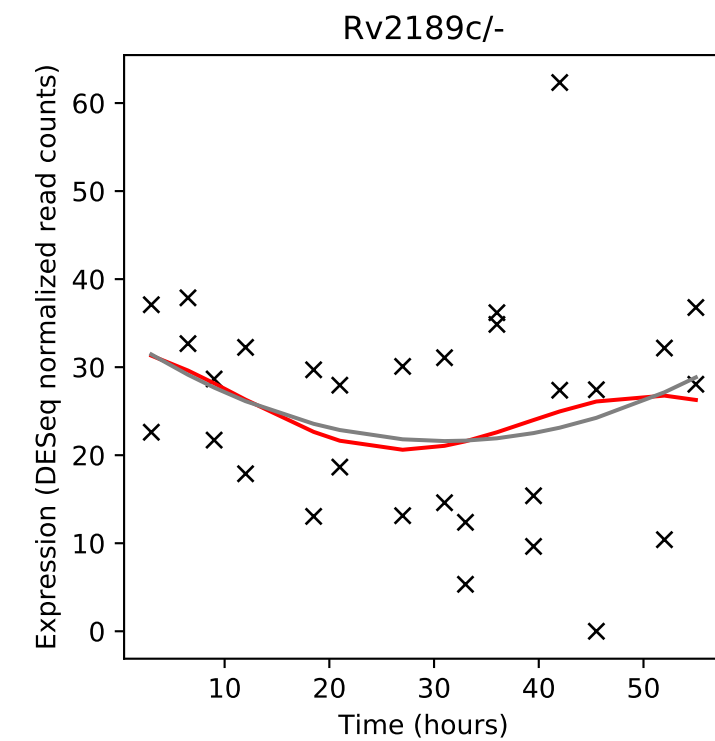
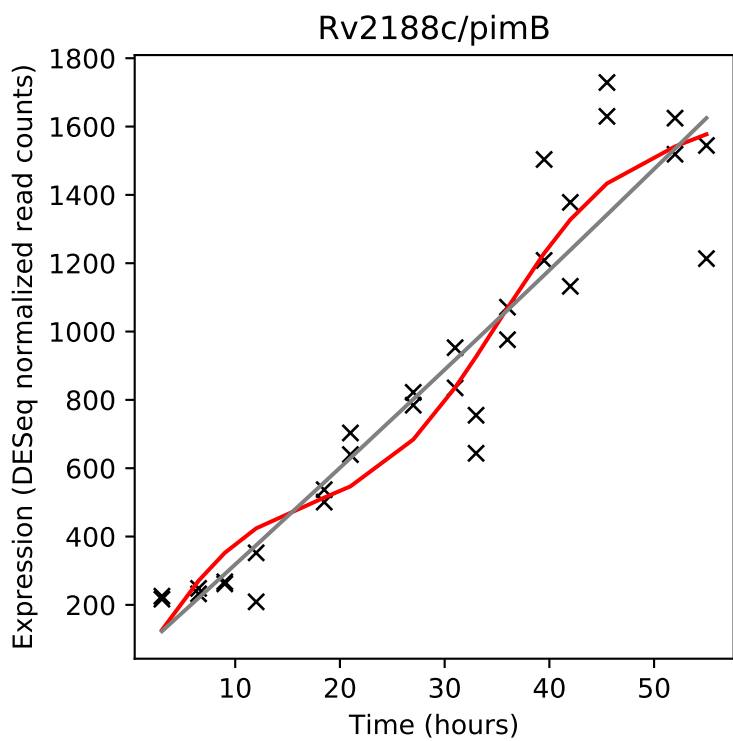
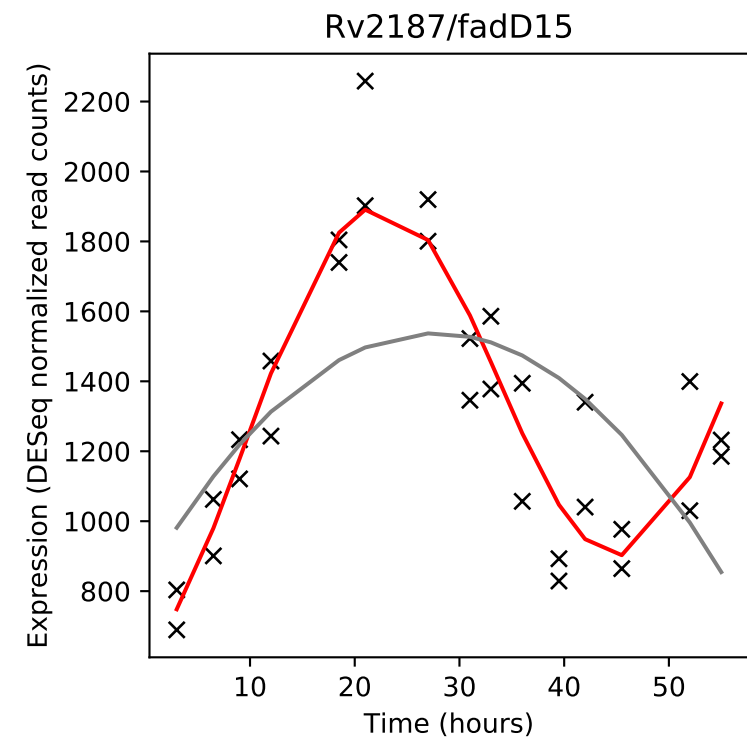
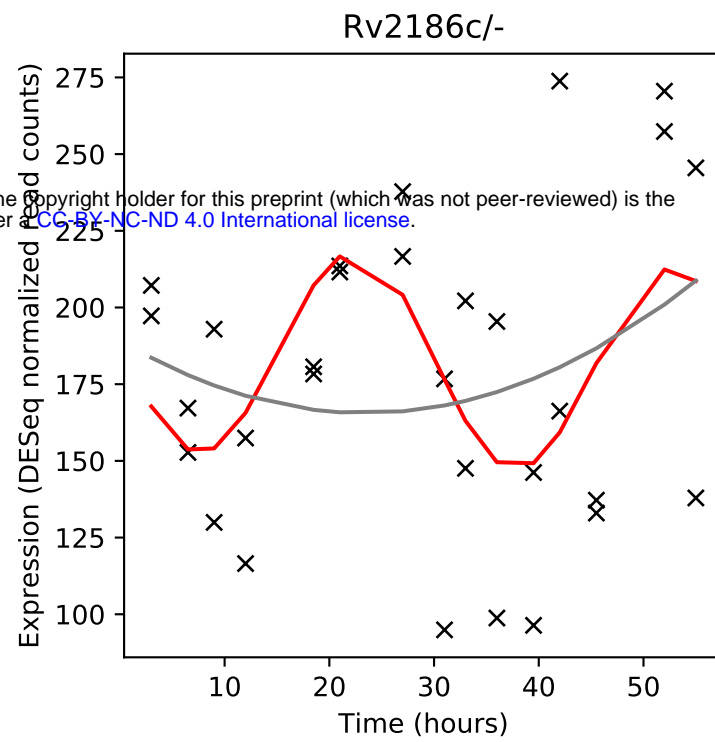
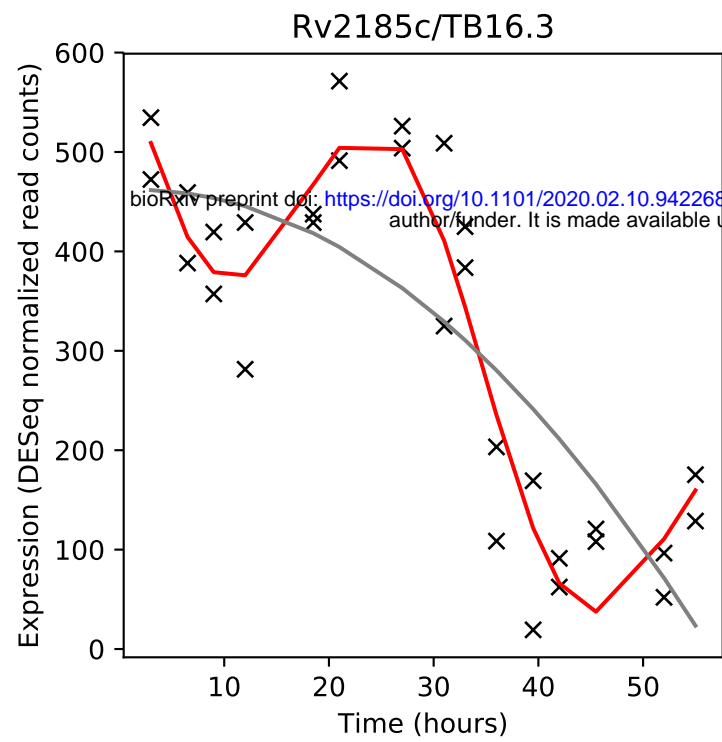


Rv2183c/-

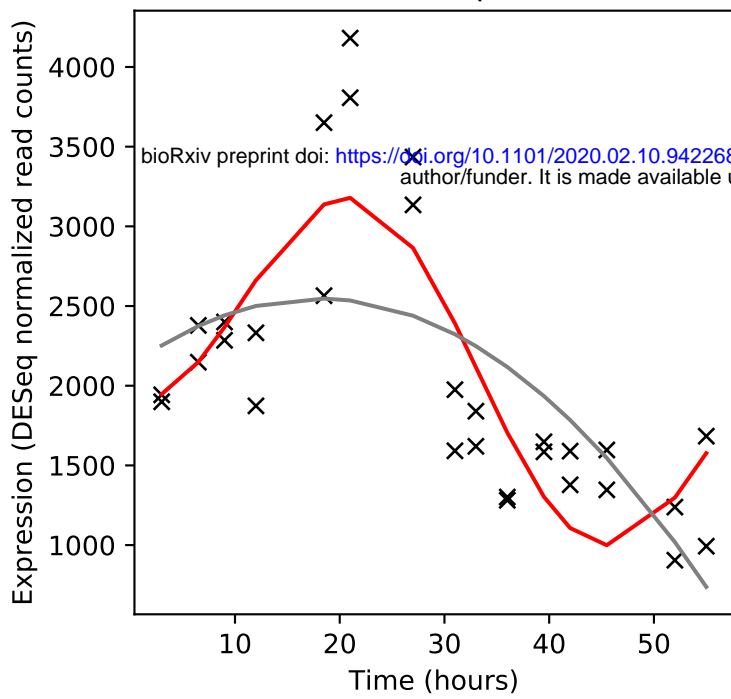


Rv2184c/-

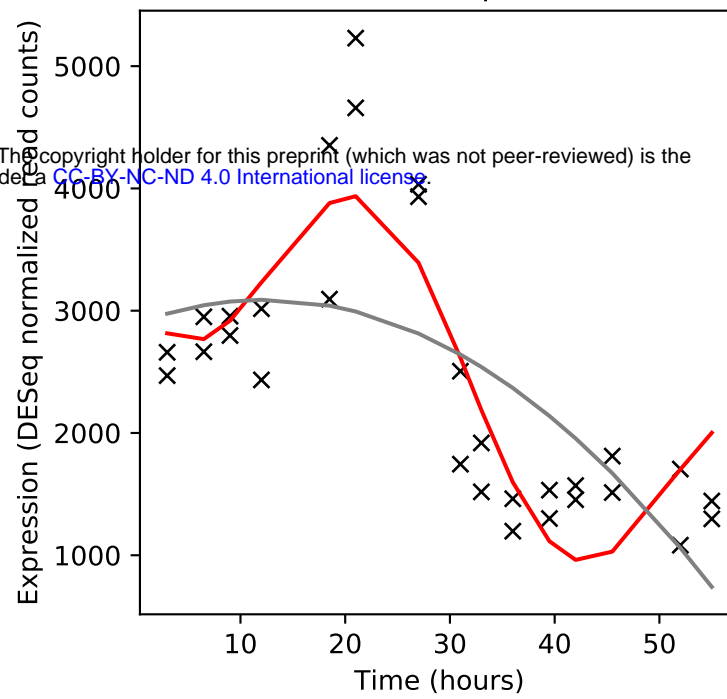




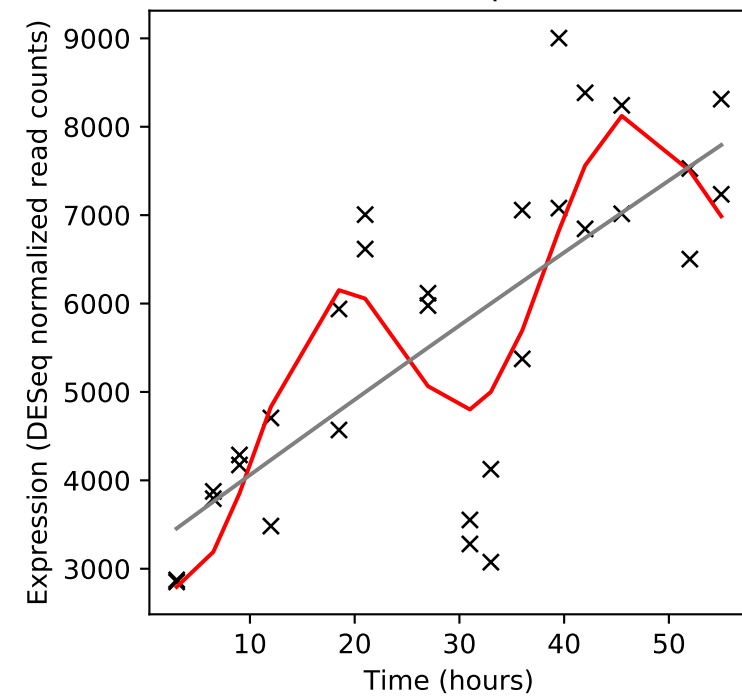
Rv2194/qcrC



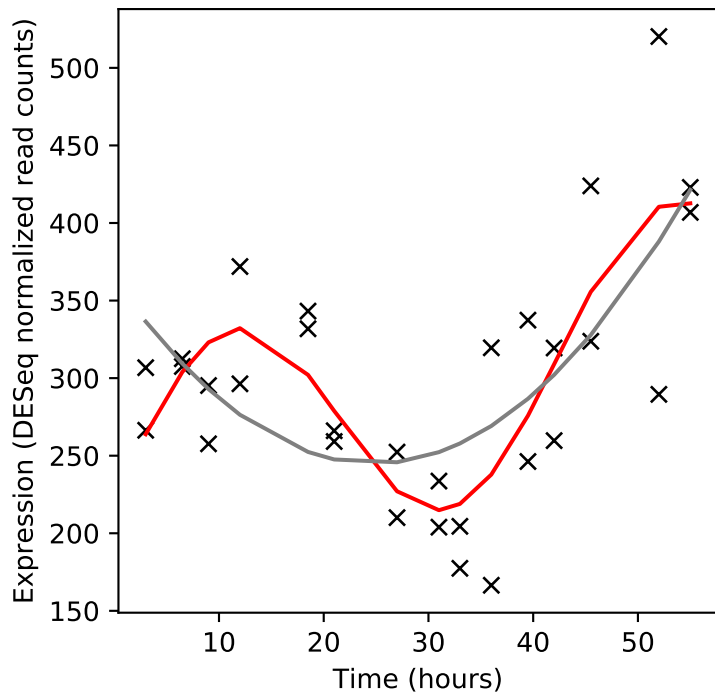
Rv2195/qcrA



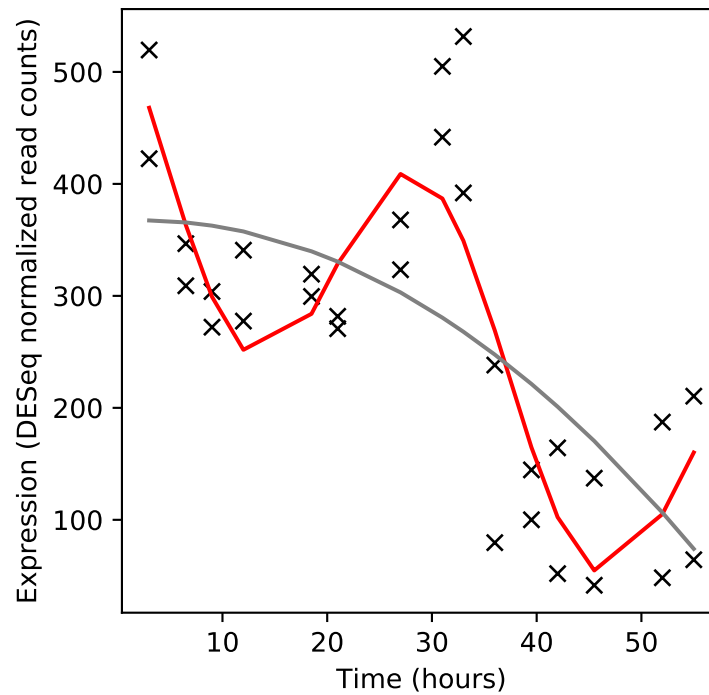
Rv2196/qcrB



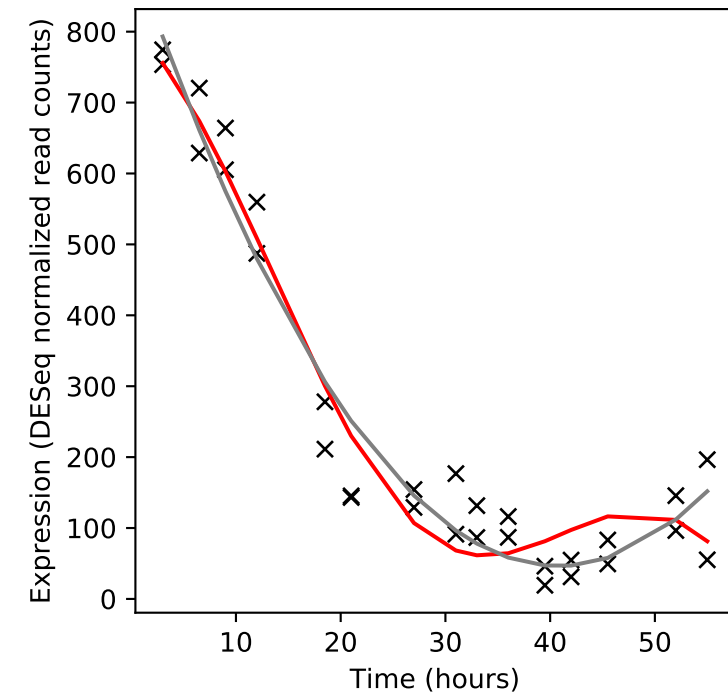
Rv2197c/-



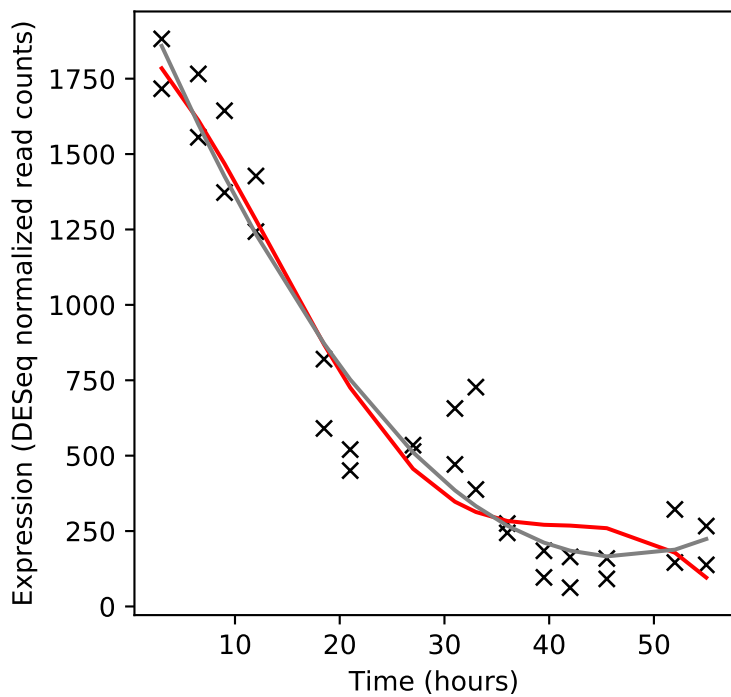
Rv2198c/mmpS3



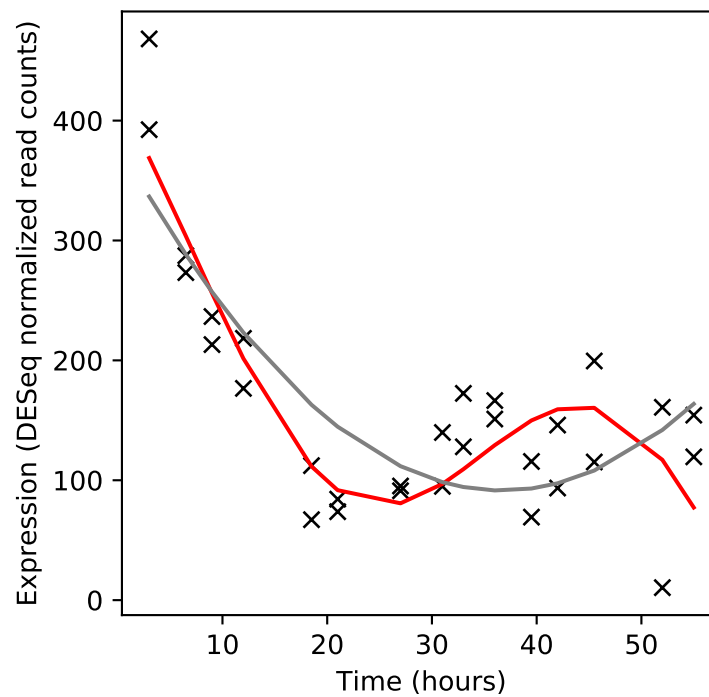
Rv2199c/-



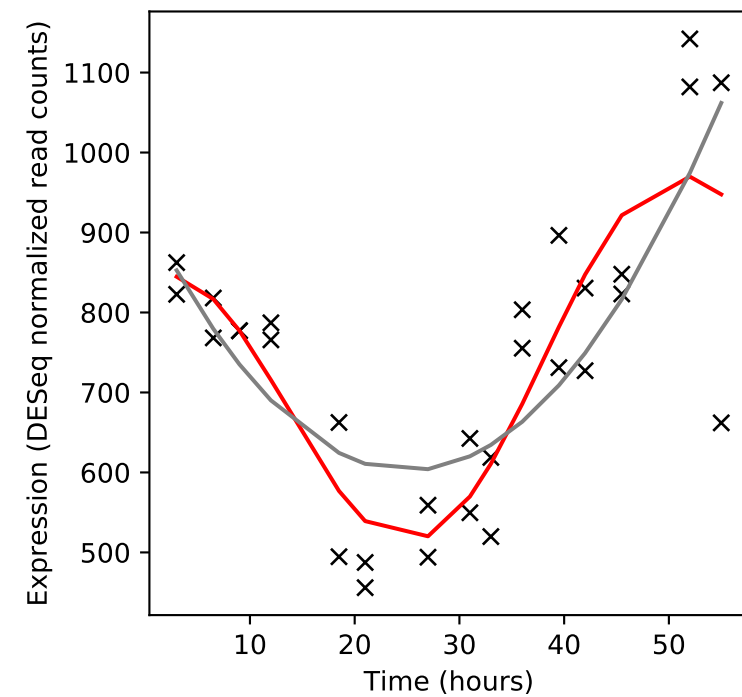
Rv2200c/ctaC



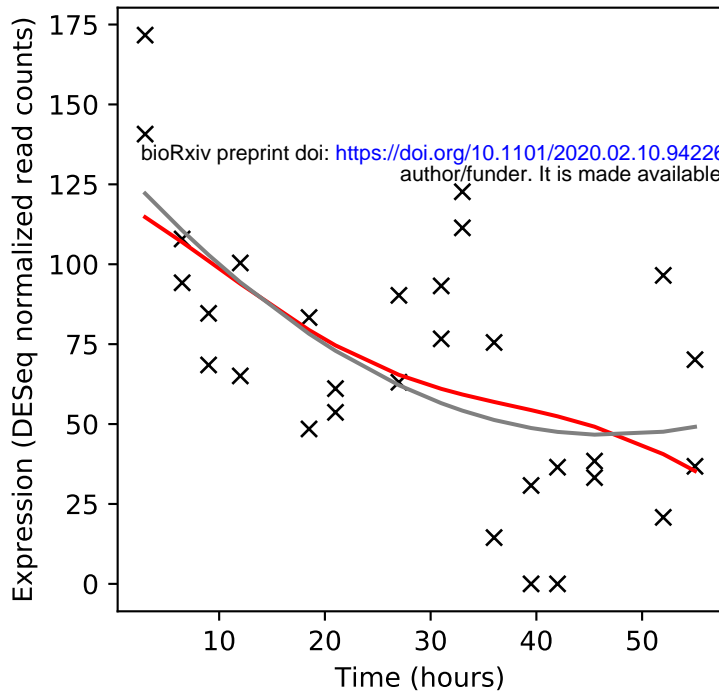
Rv2201/asnB



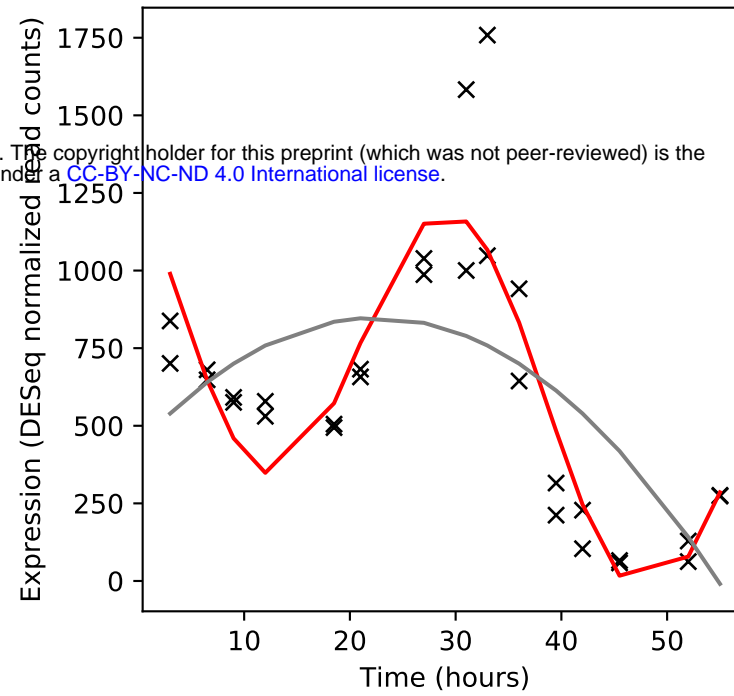
Rv2202c/adoK



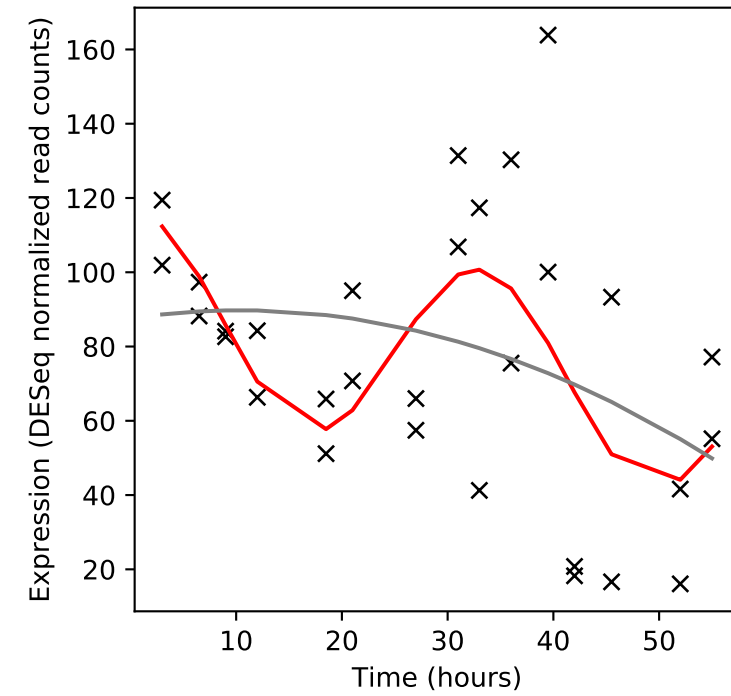
Rv2203/-



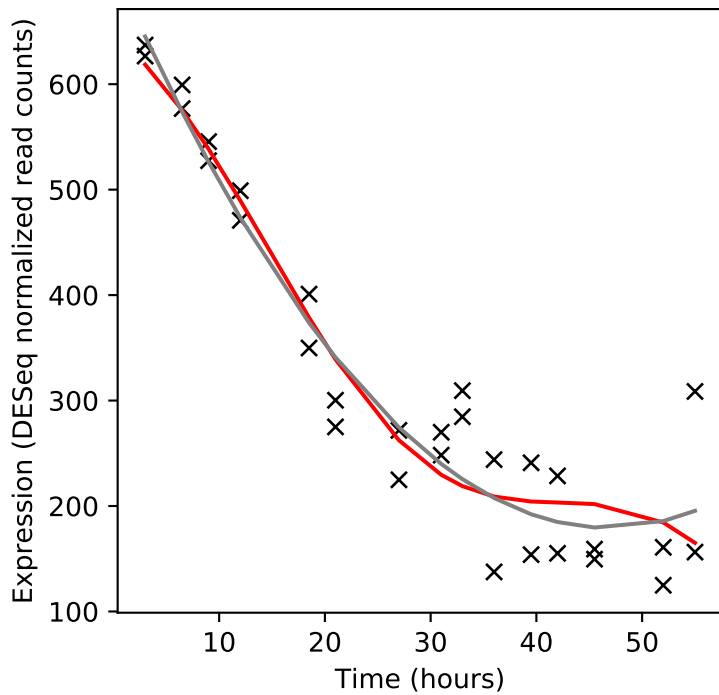
Rv2204c/-



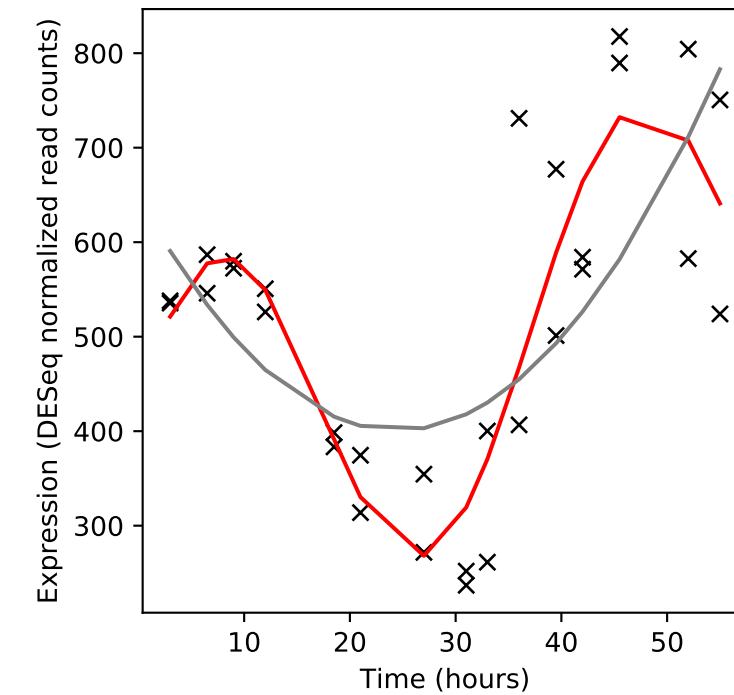
Rv2205c/-



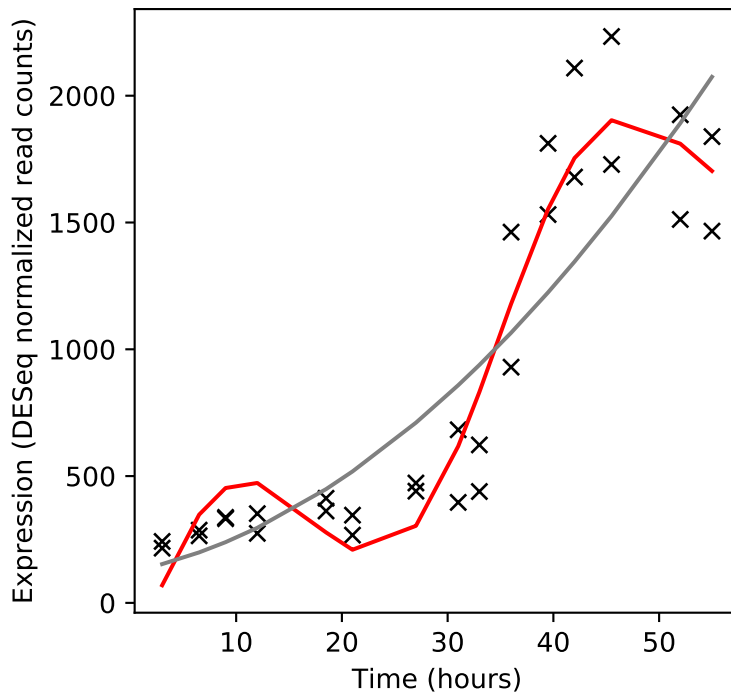
Rv2206/-



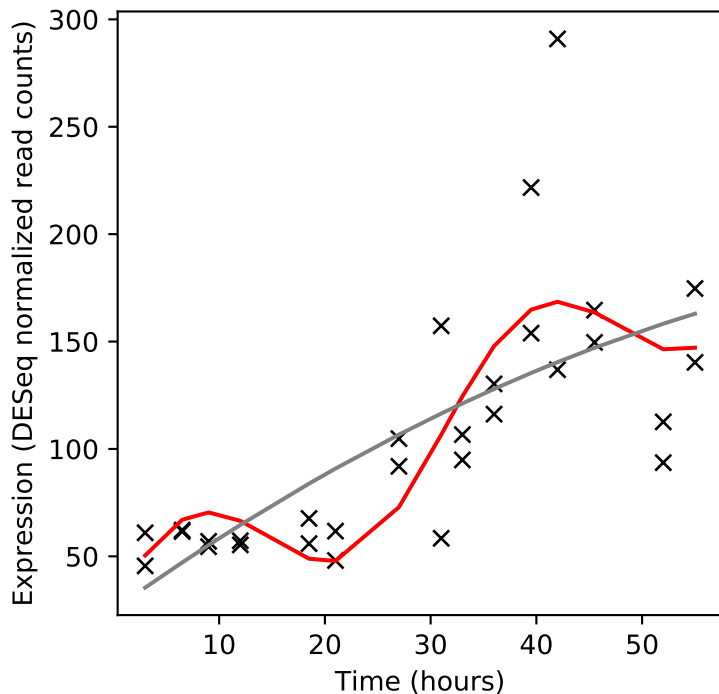
Rv2207/cobT



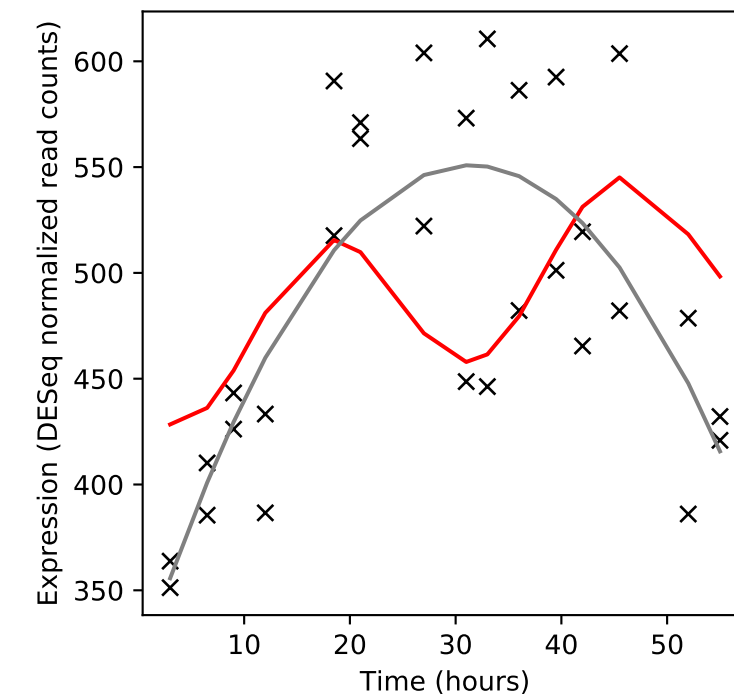
Rv2208/cobS



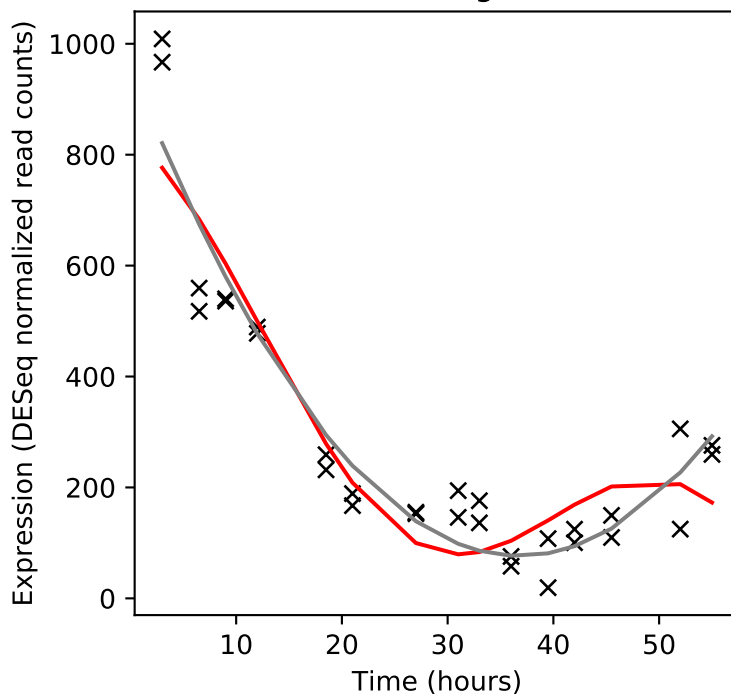
Rv2209/-



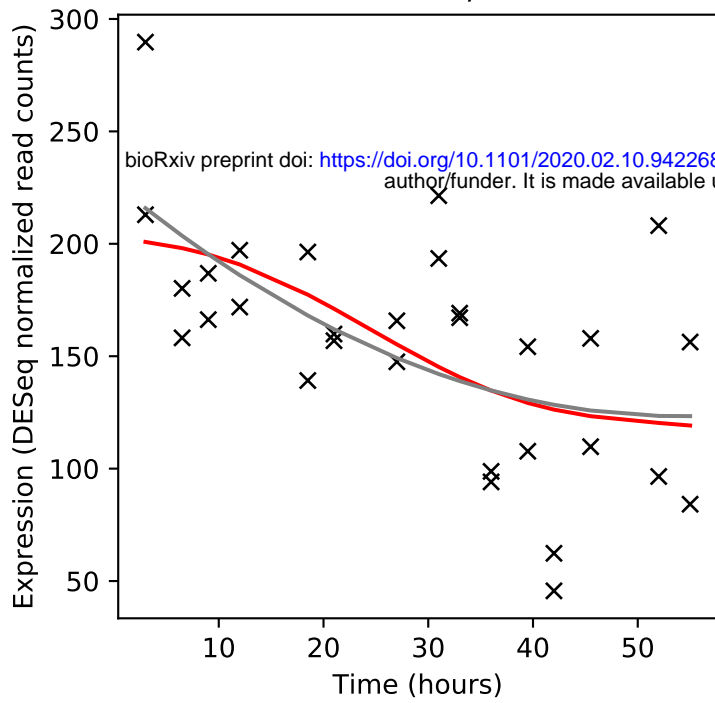
Rv2210c/ilvE



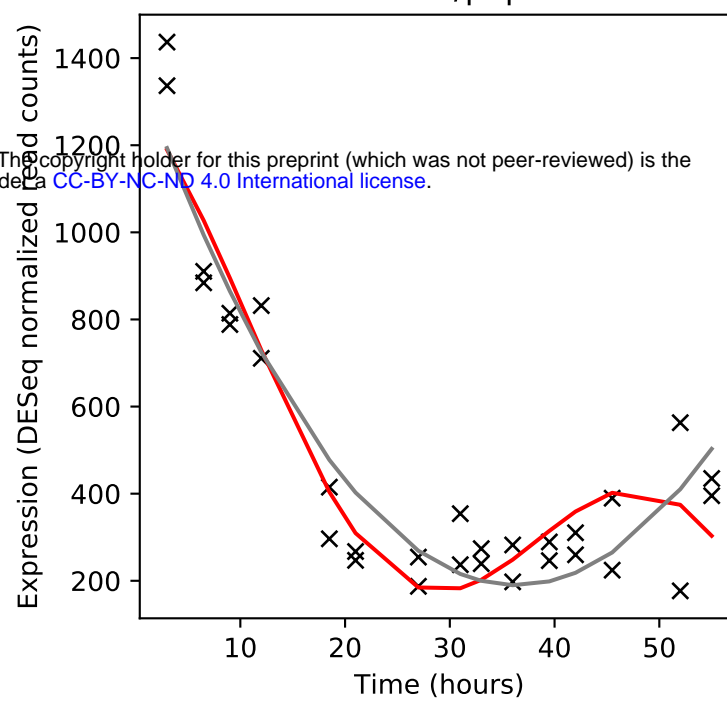
Rv2211c/gcvT



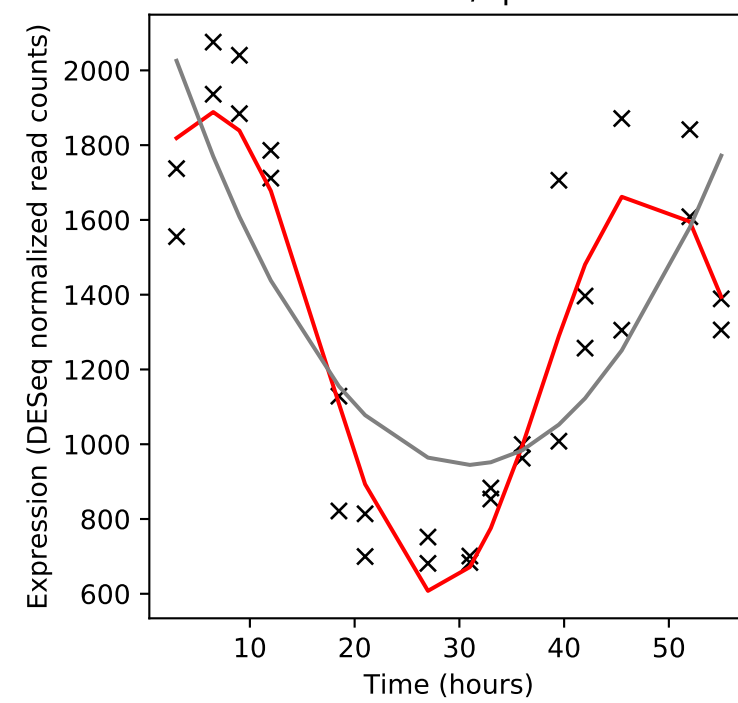
Rv2212/-



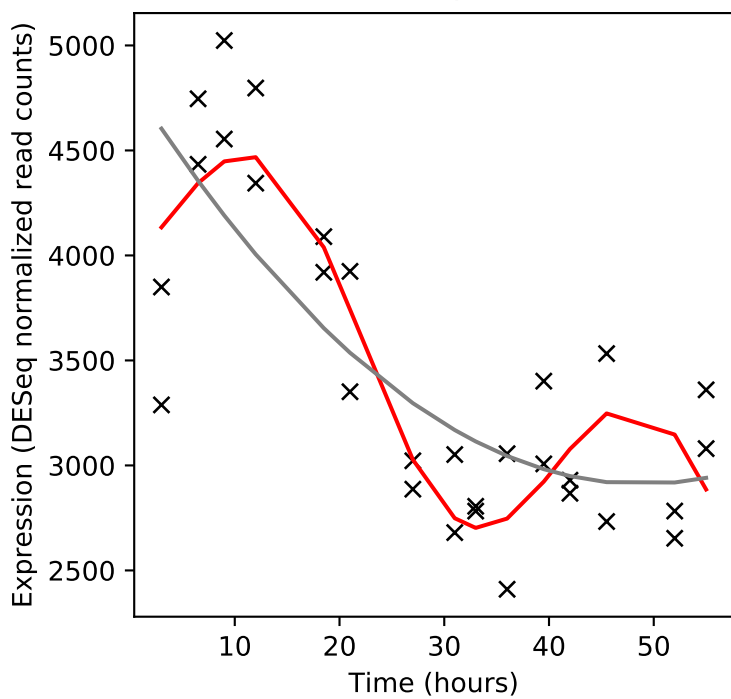
Rv2213/pepB



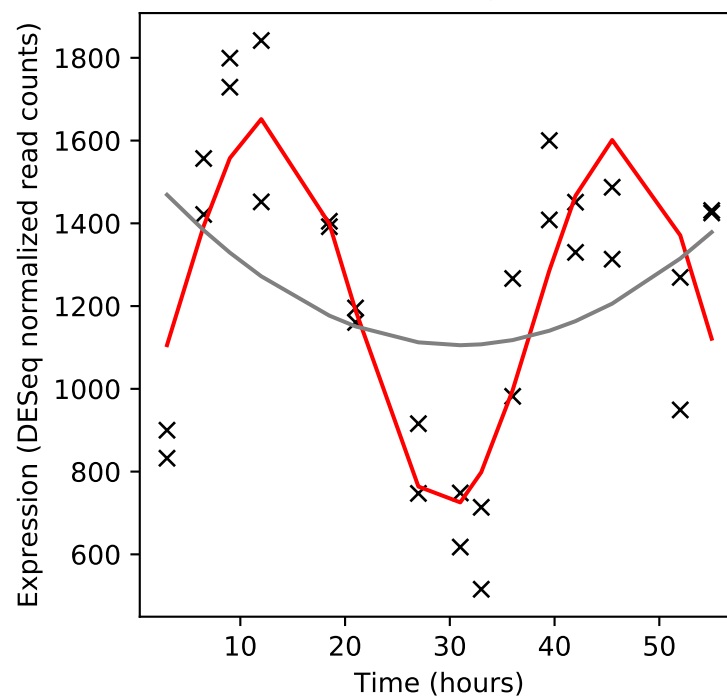
Rv2214c/ephD



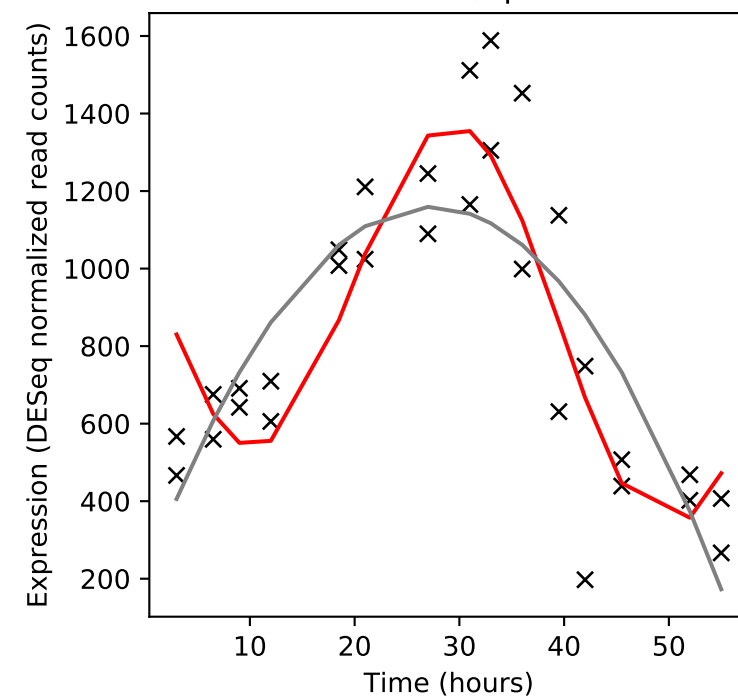
Rv2215/dlaT



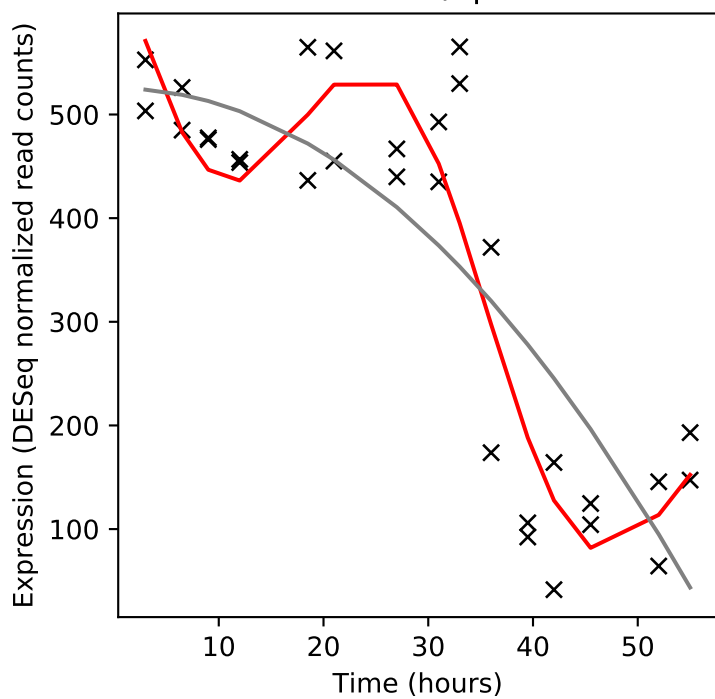
Rv2216/-



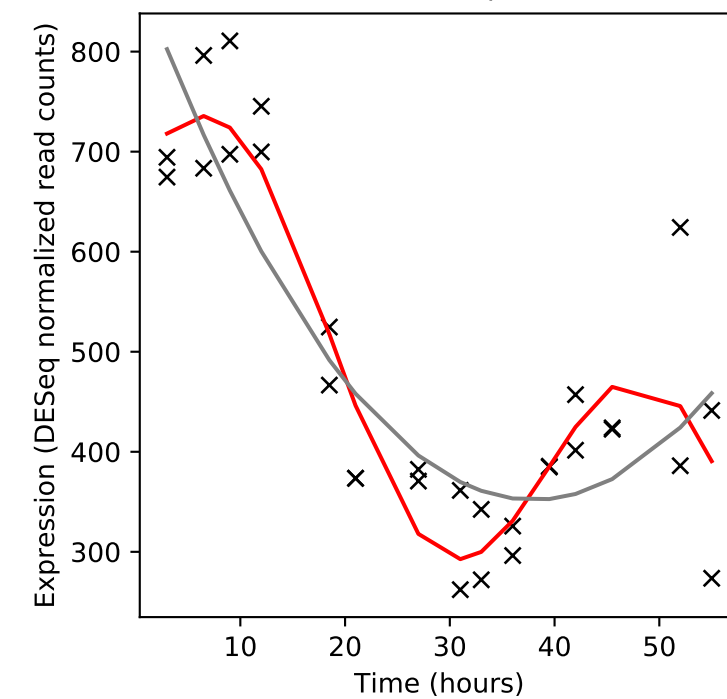
Rv2217/lipB



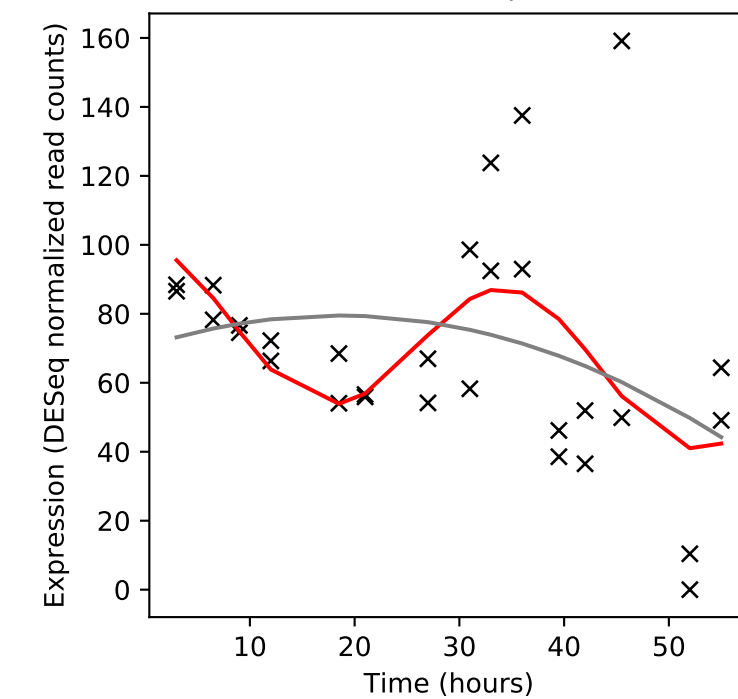
Rv2218/lipA



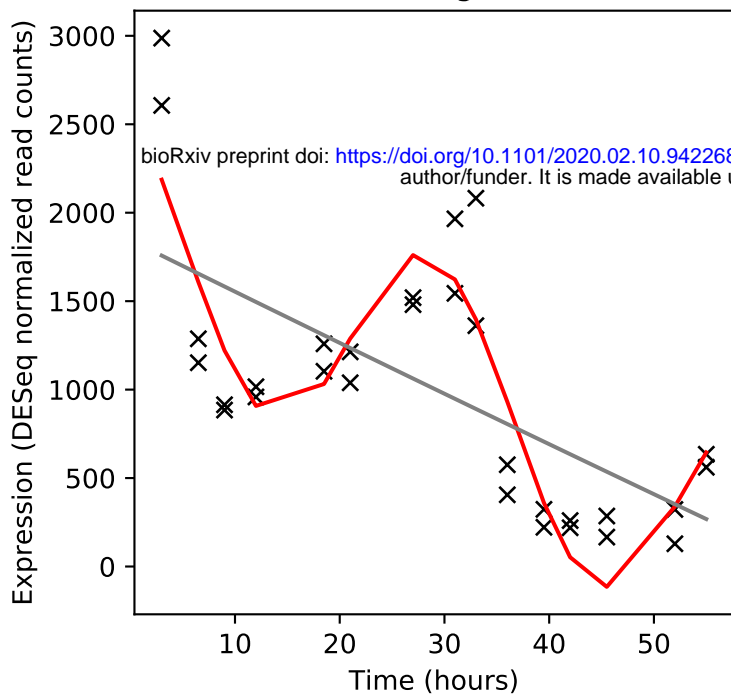
Rv2219/-



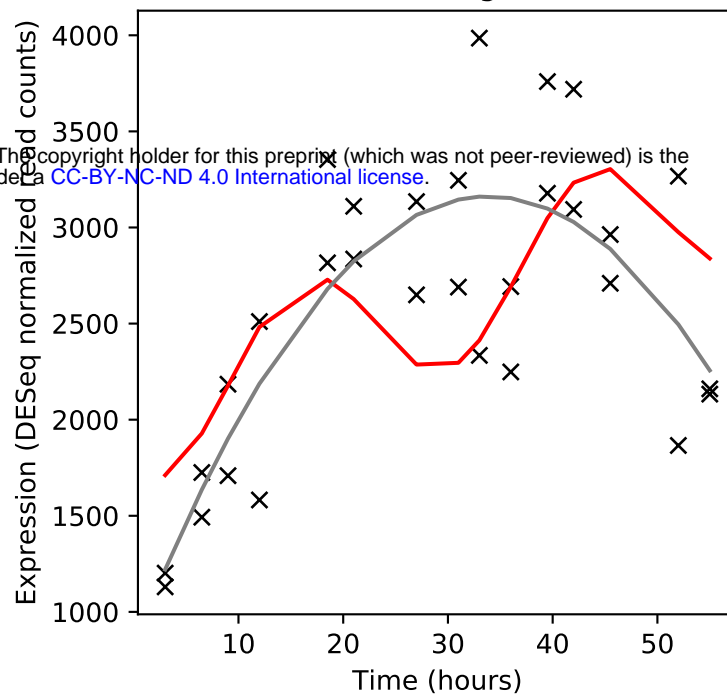
Rv2219A/-



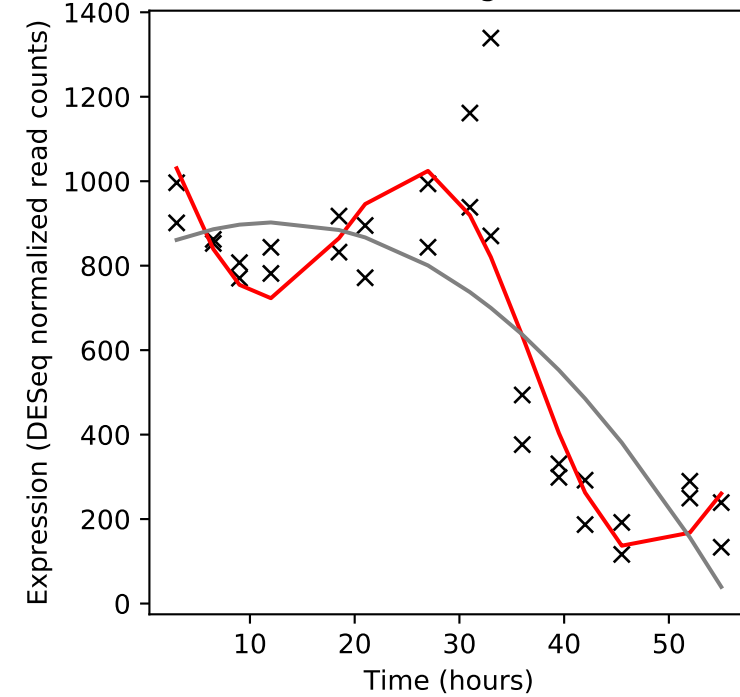
Rv2220/glnA1



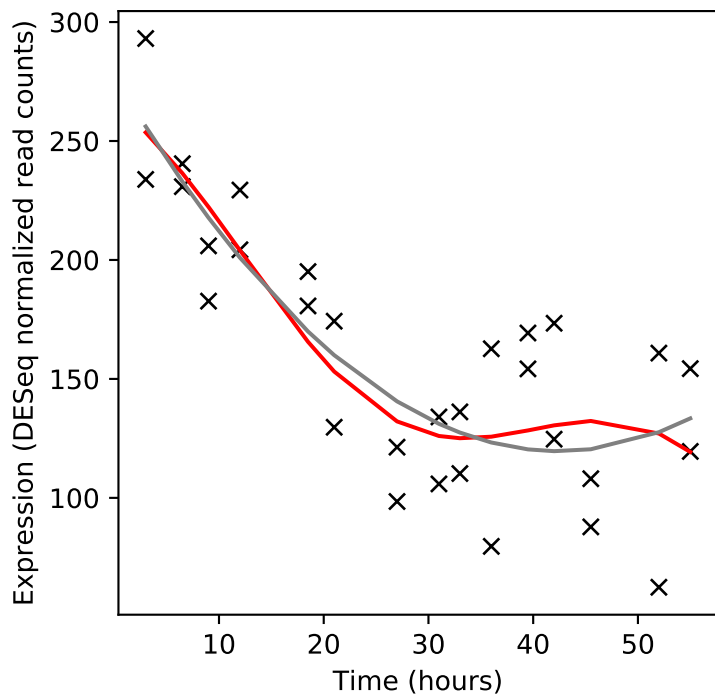
Rv2221c/glnE



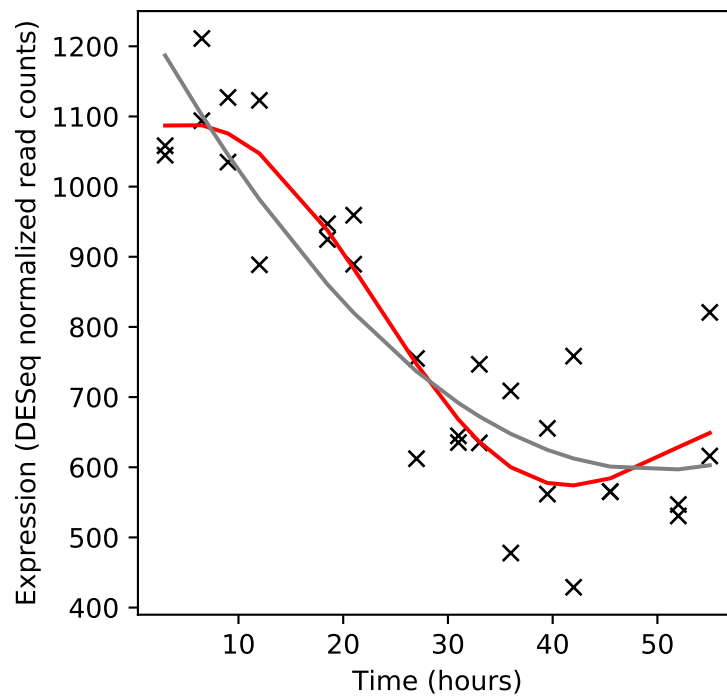
Rv2222c/glnA2



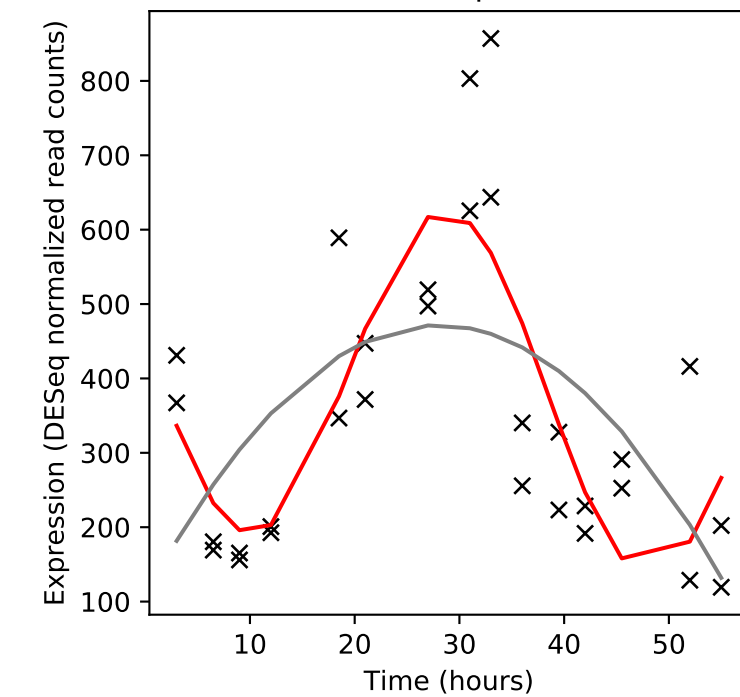
Rv2223c/-



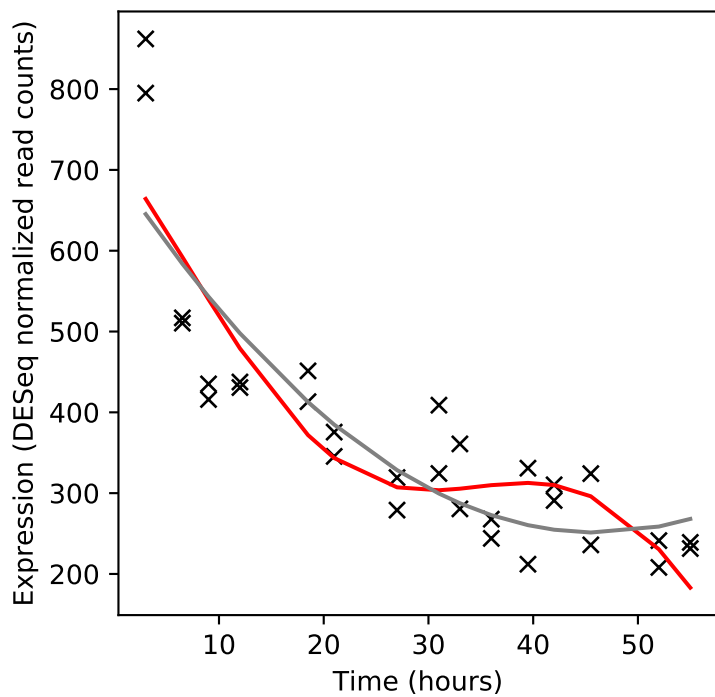
Rv2224c/caeA



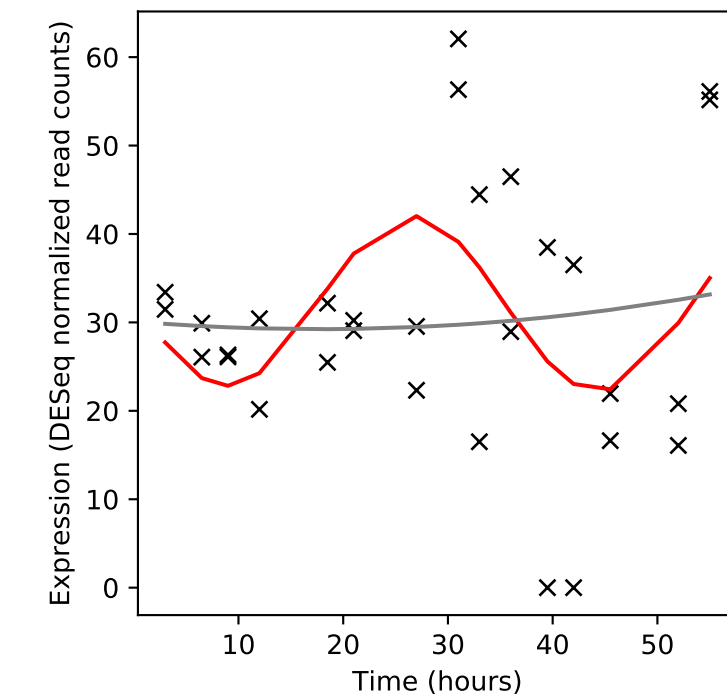
Rv2225/panB



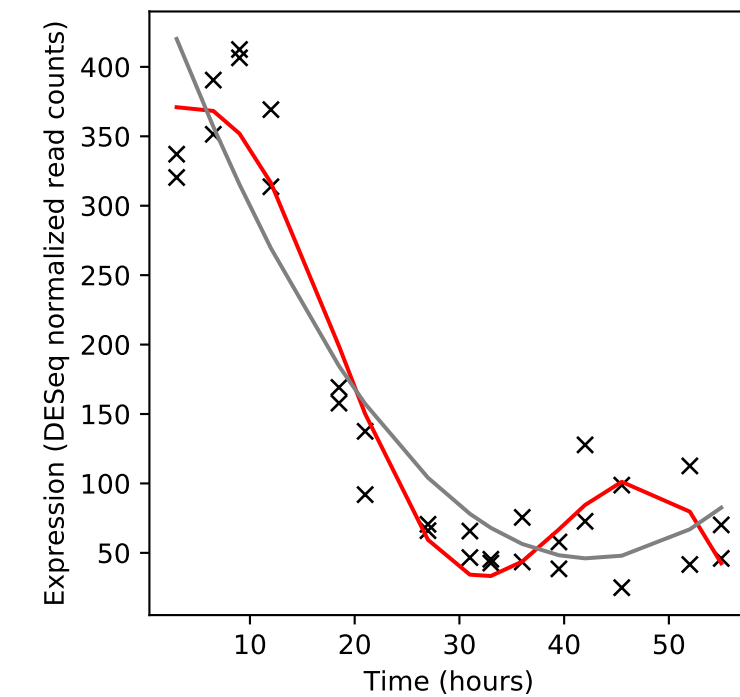
Rv2226/-



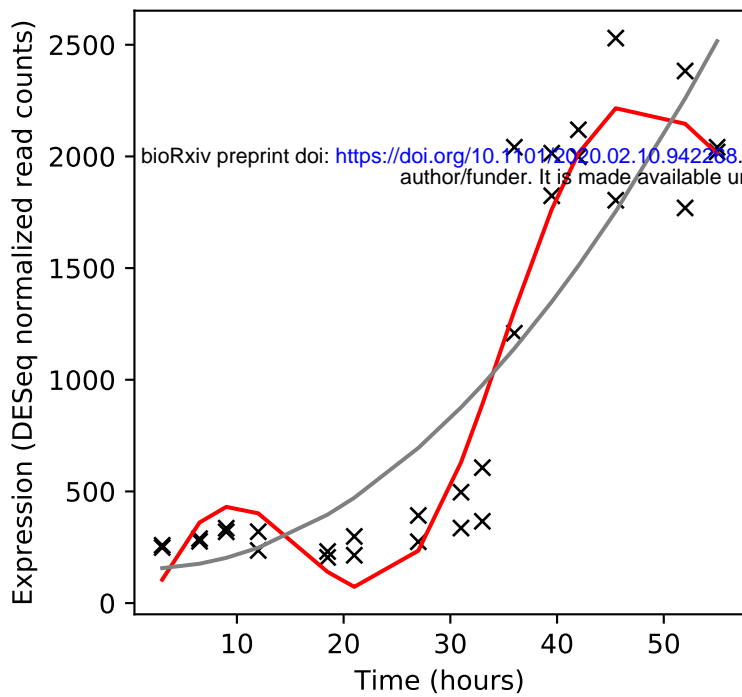
Rv2227/-



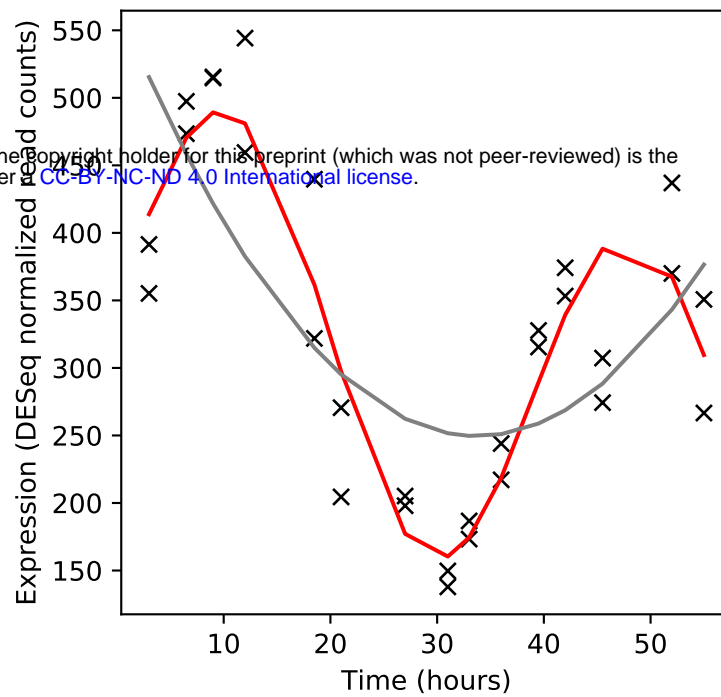
Rv2228c/-



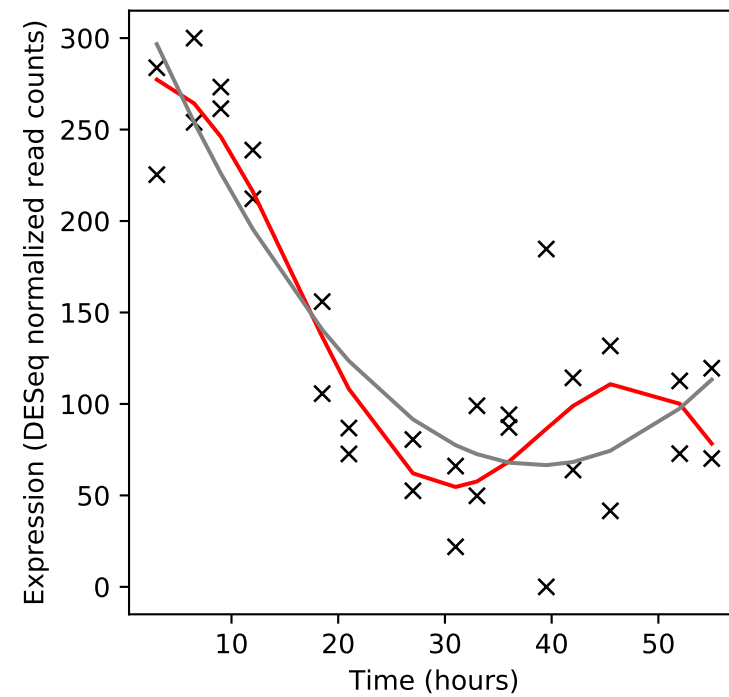
Rv2229c/-



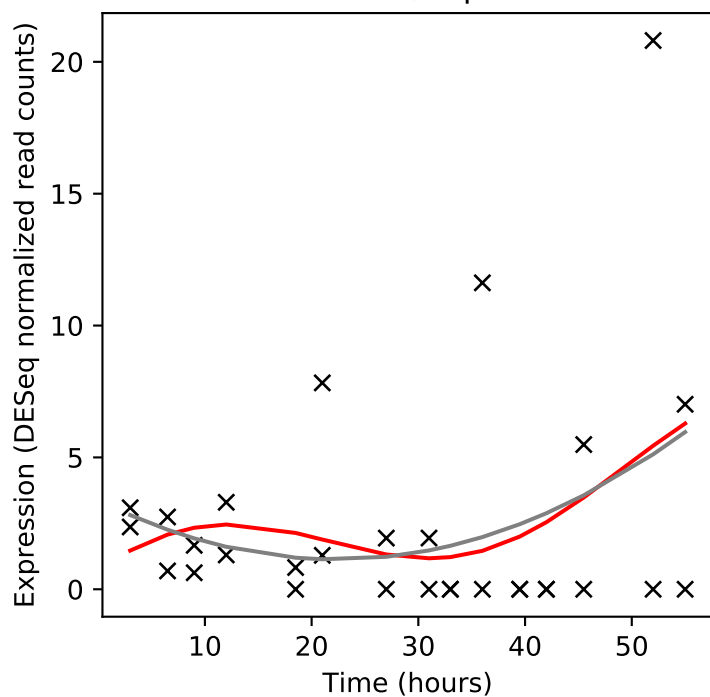
Rv2230c/-



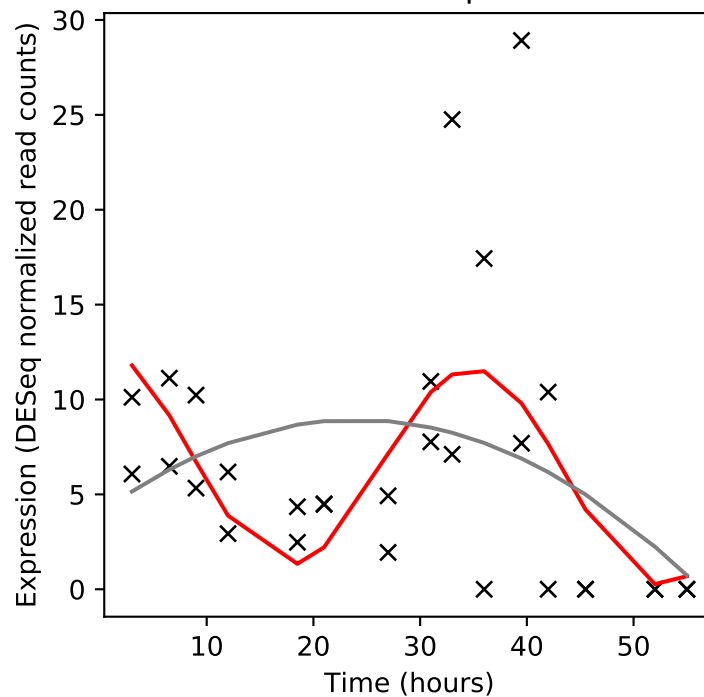
Rv2231c/cobC



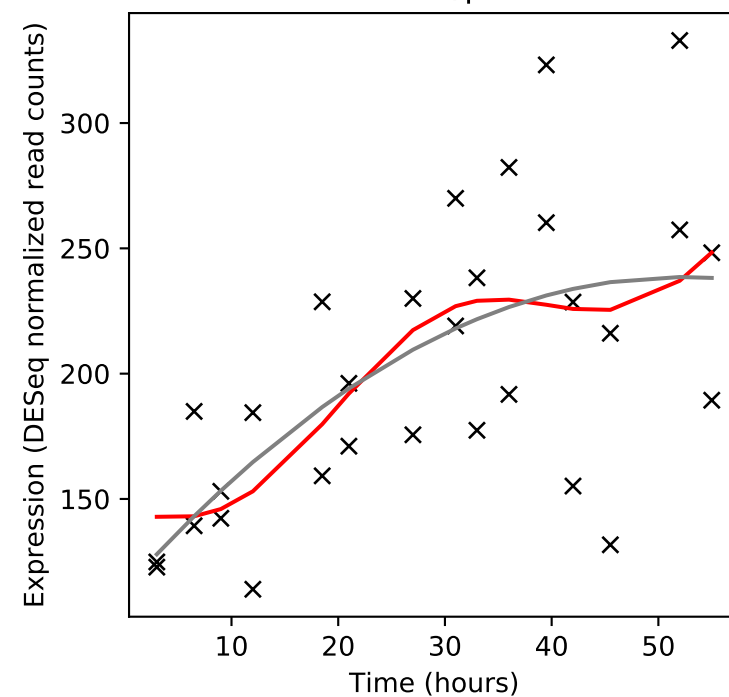
Rv2231A/vapC16



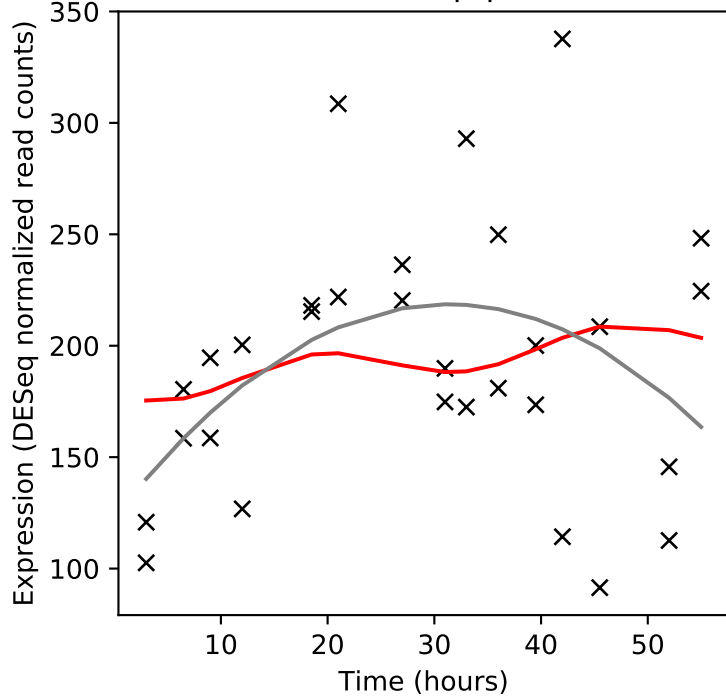
Rv2231B/vapB16



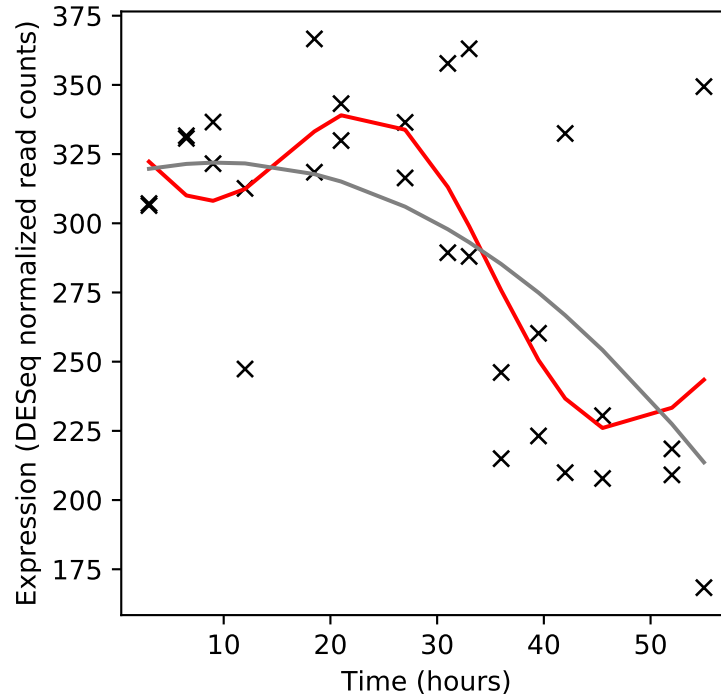
Rv2232/ptkA



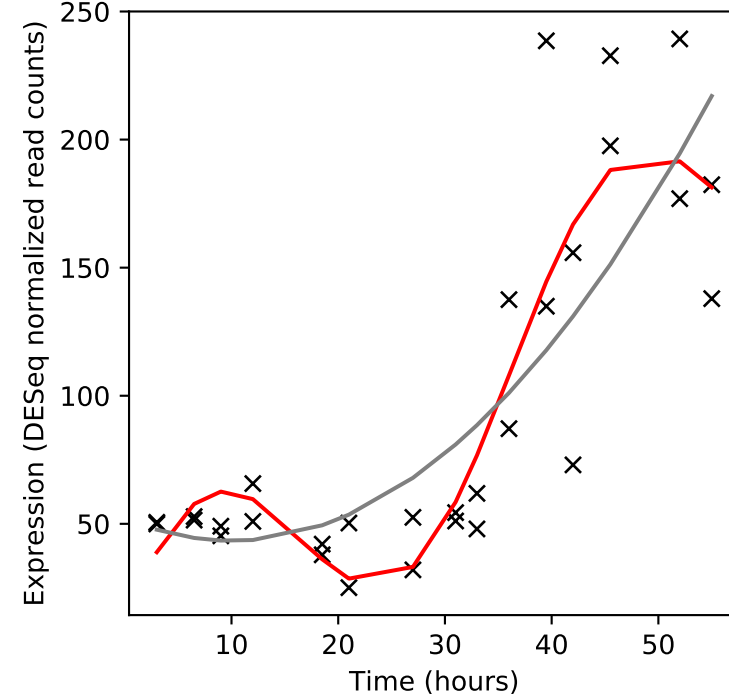
Rv2234/ptpA



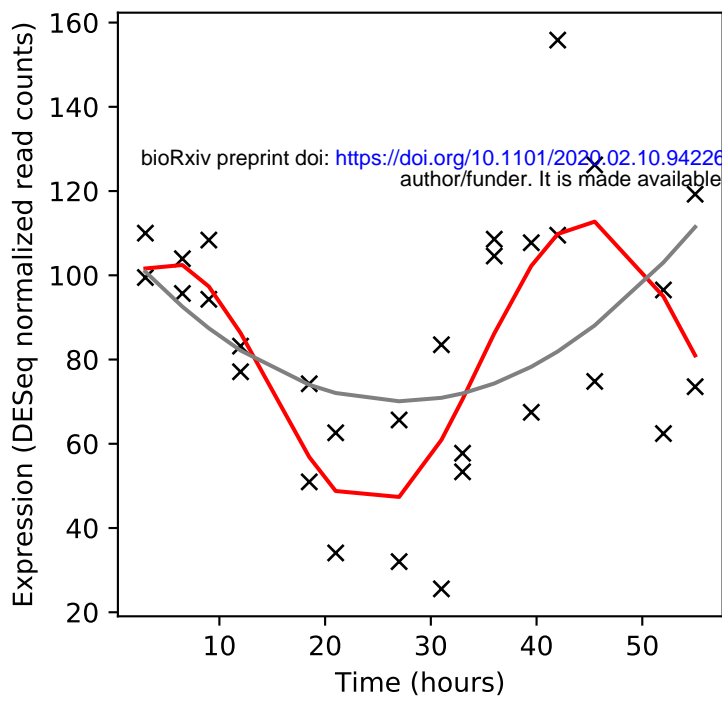
Rv2235/-



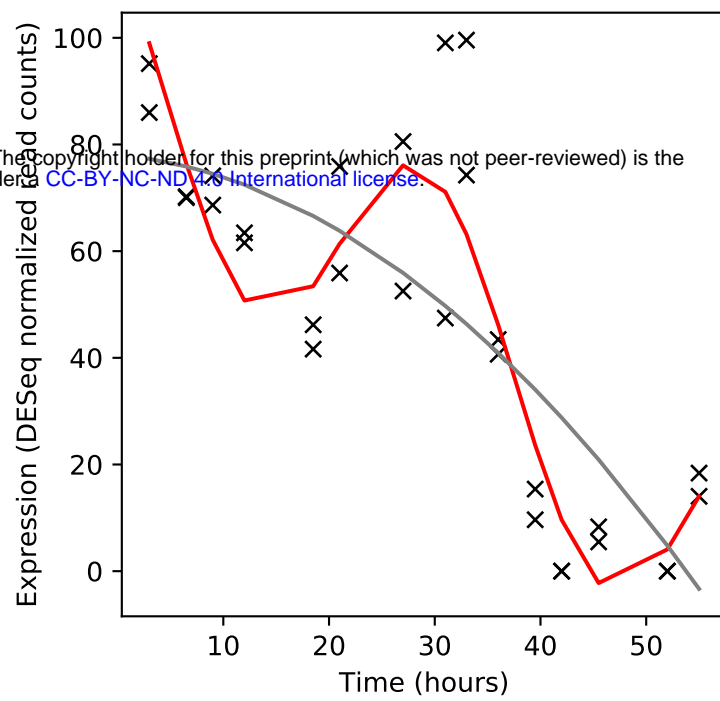
Rv2236c/cobD



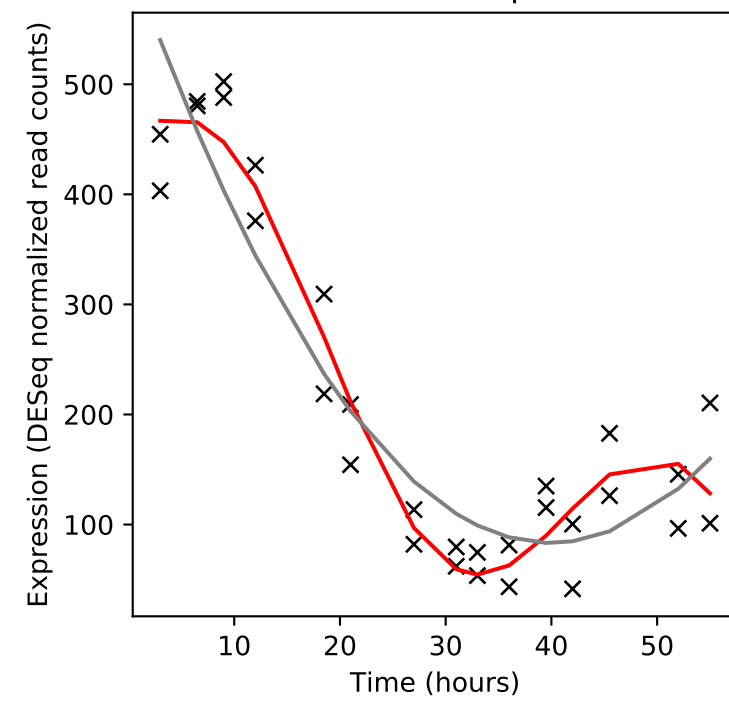
Rv2237/-



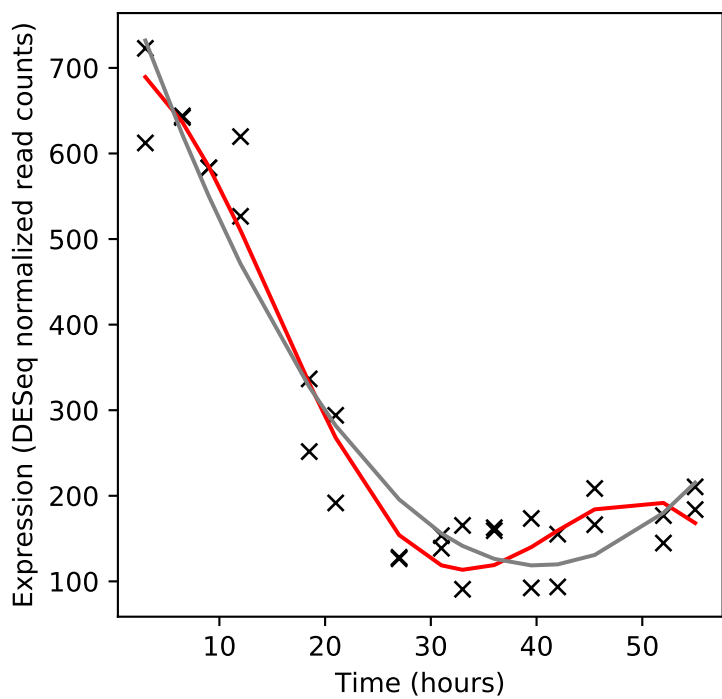
Rv2237A/-



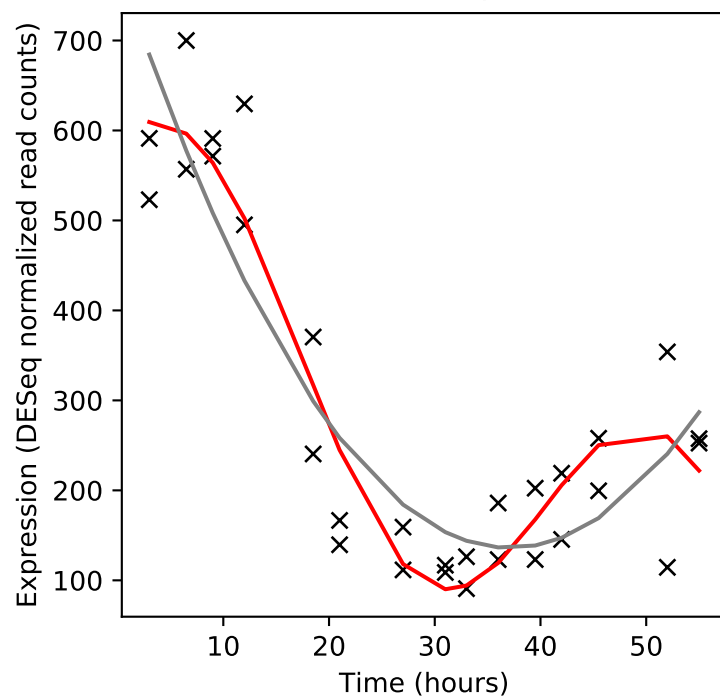
Rv2238c/ahpE



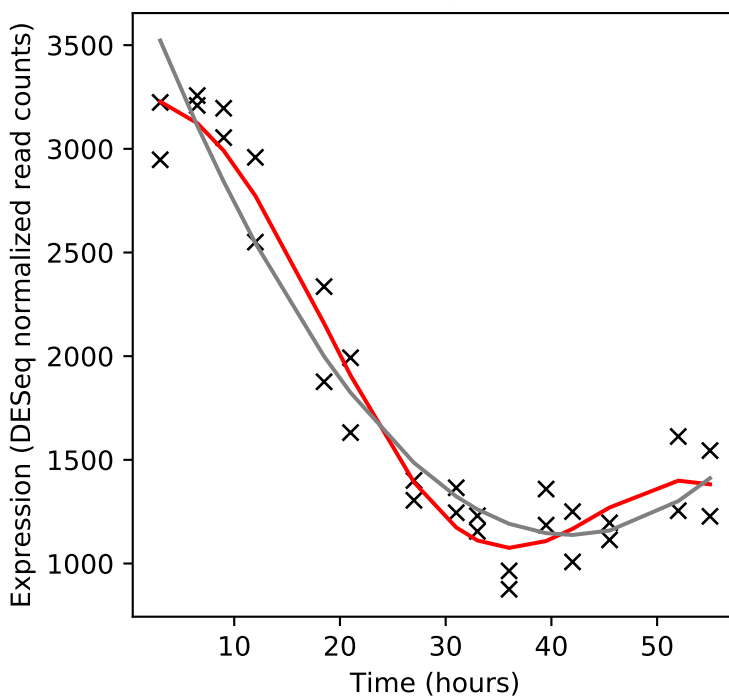
Rv2239c/-



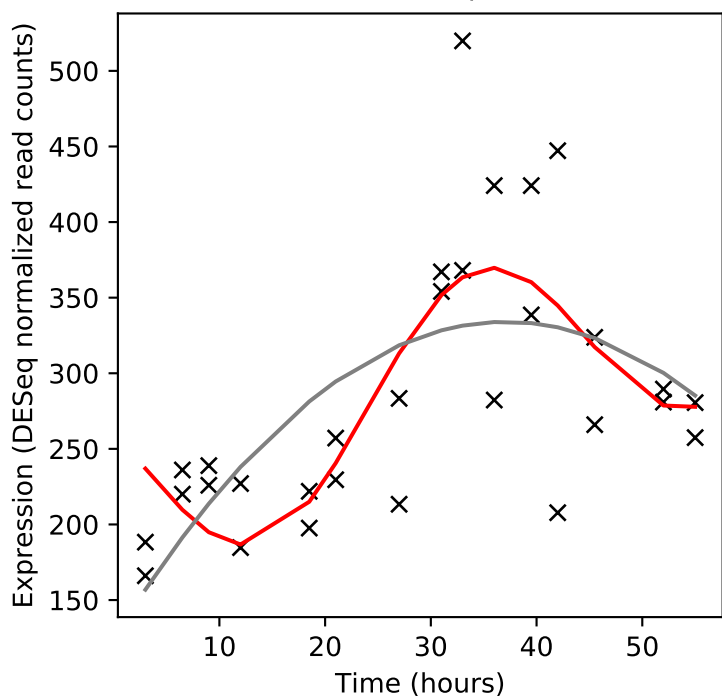
Rv2240c/-



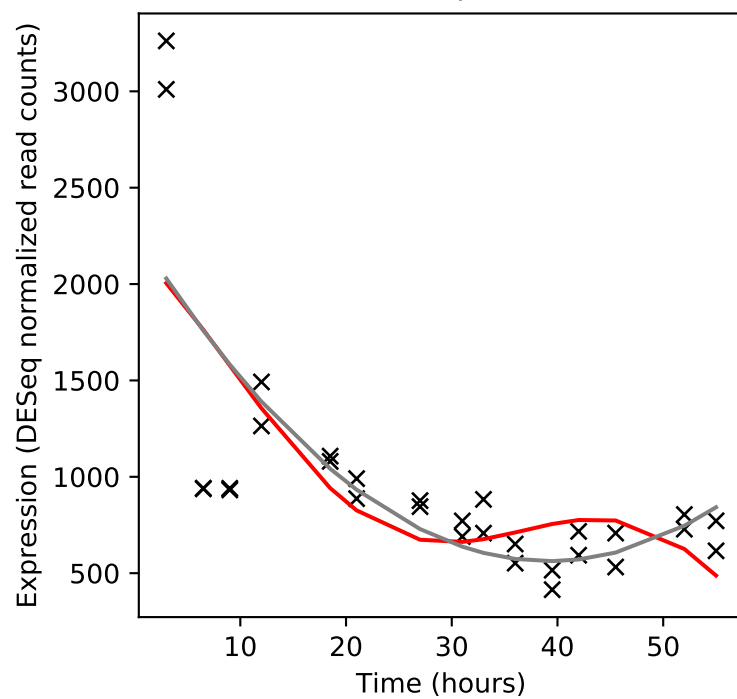
Rv2241/aceE



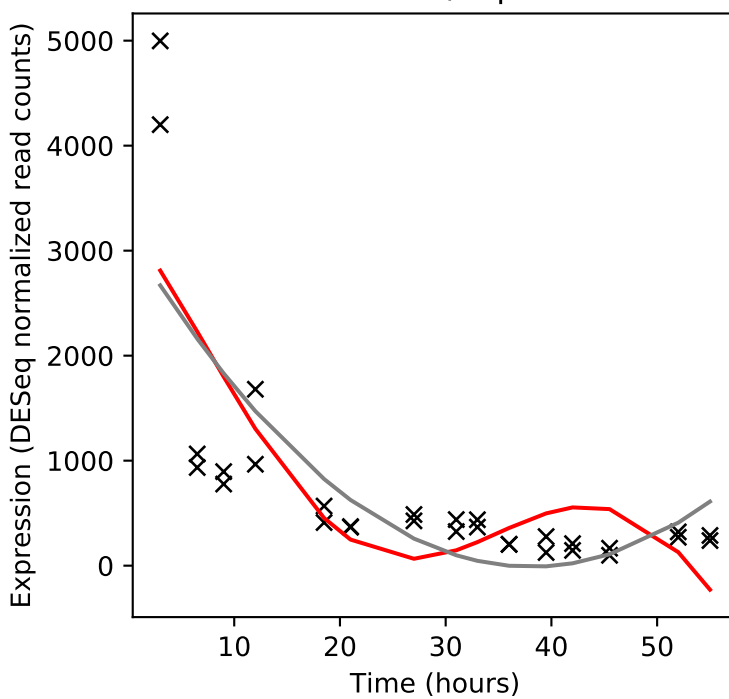
Rv2242/-



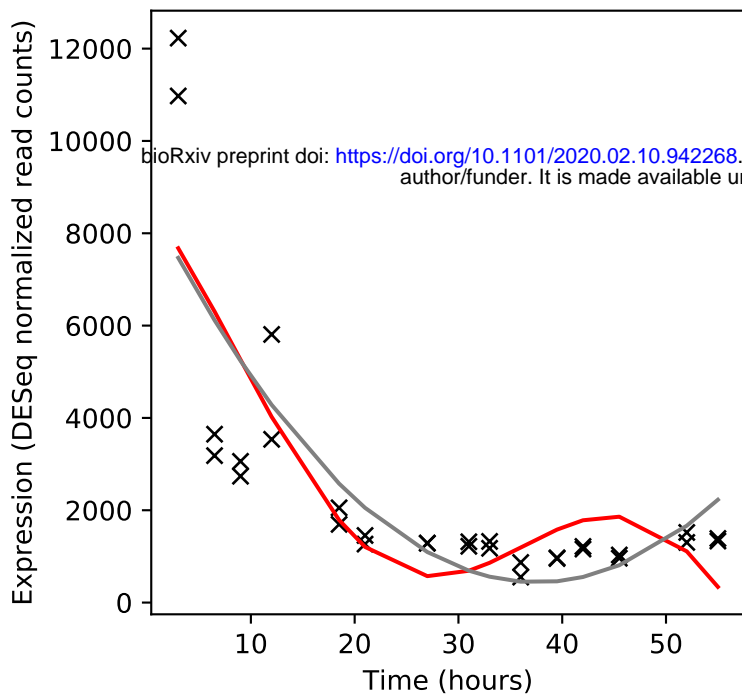
Rv2243/fabD



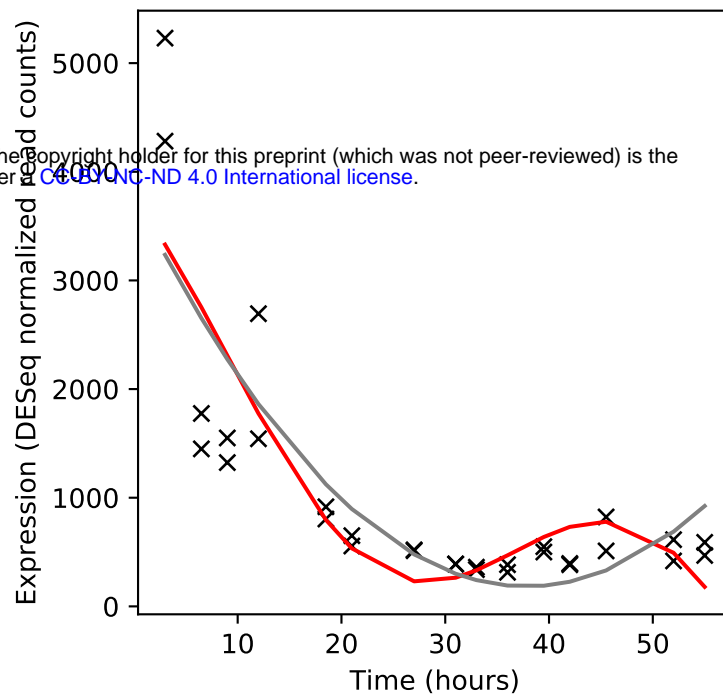
Rv2244/acpM



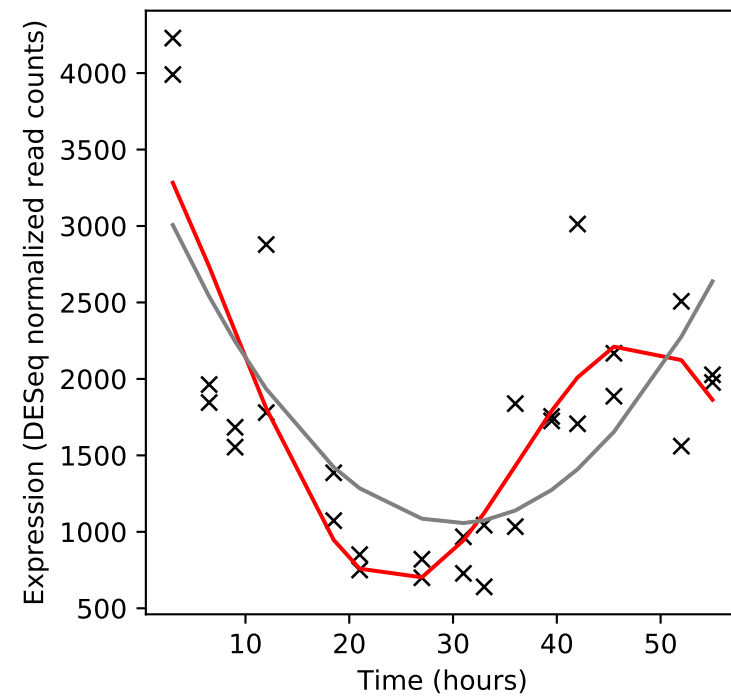
Rv2245/kasA



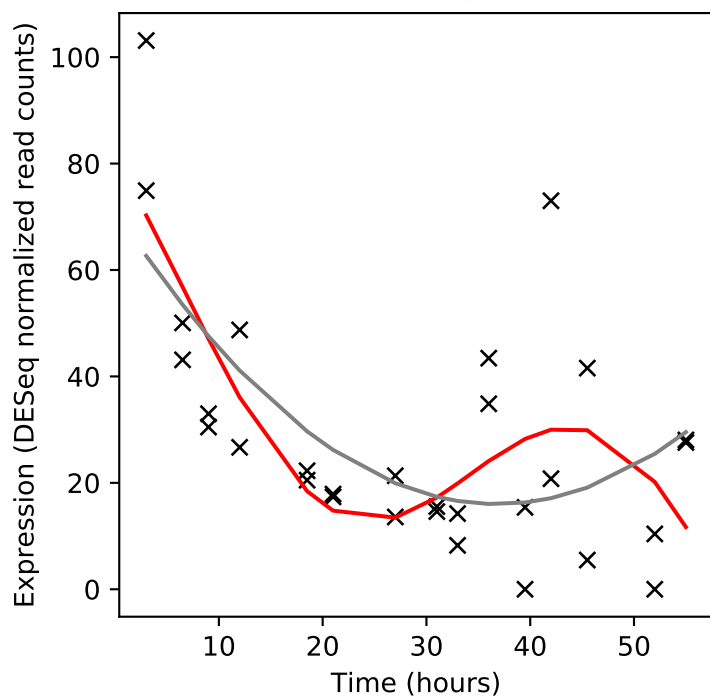
Rv2246/kasB



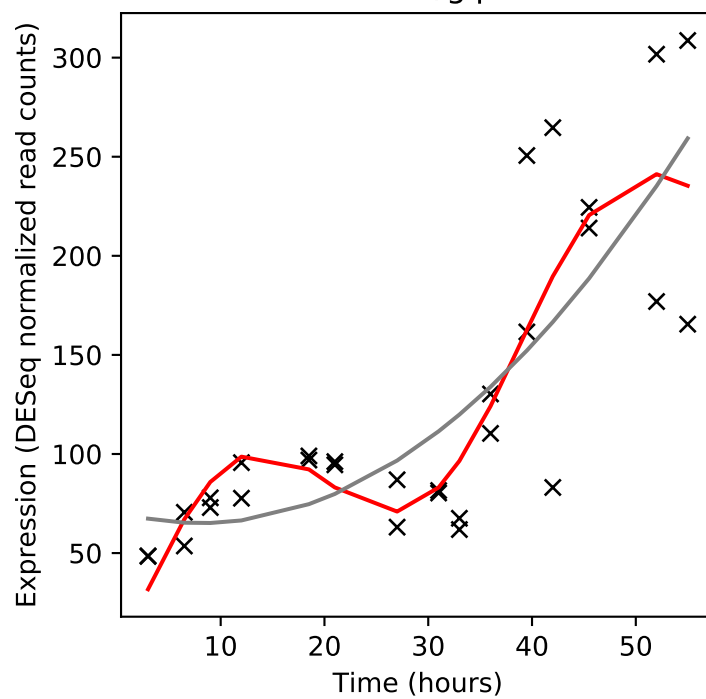
Rv2247/accD6



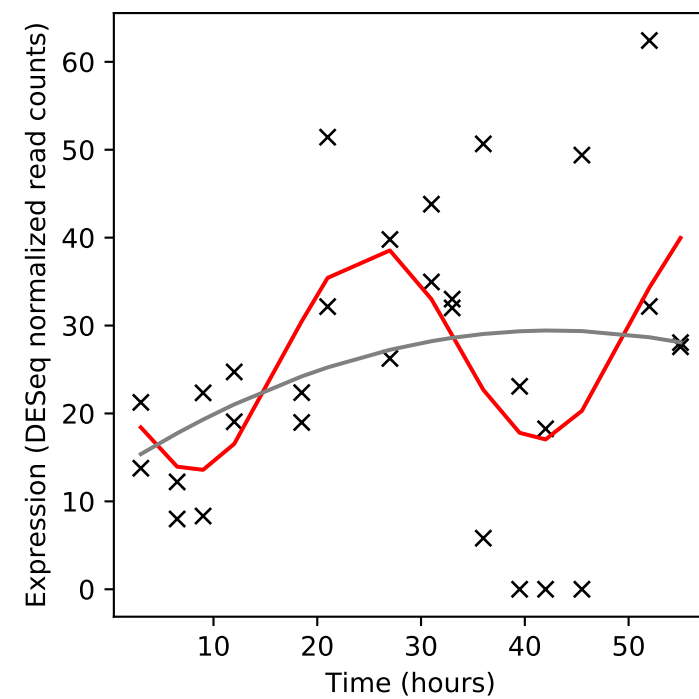
Rv2248/-



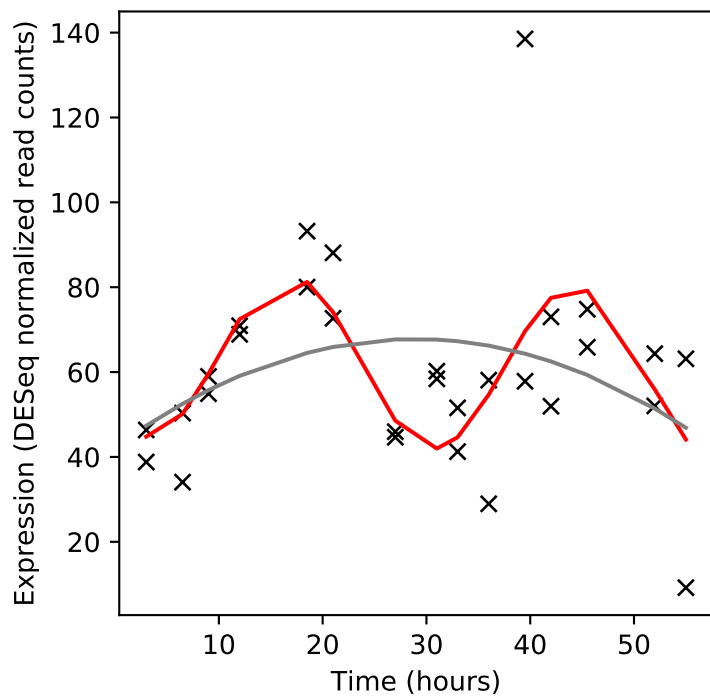
Rv2249c/glpD1



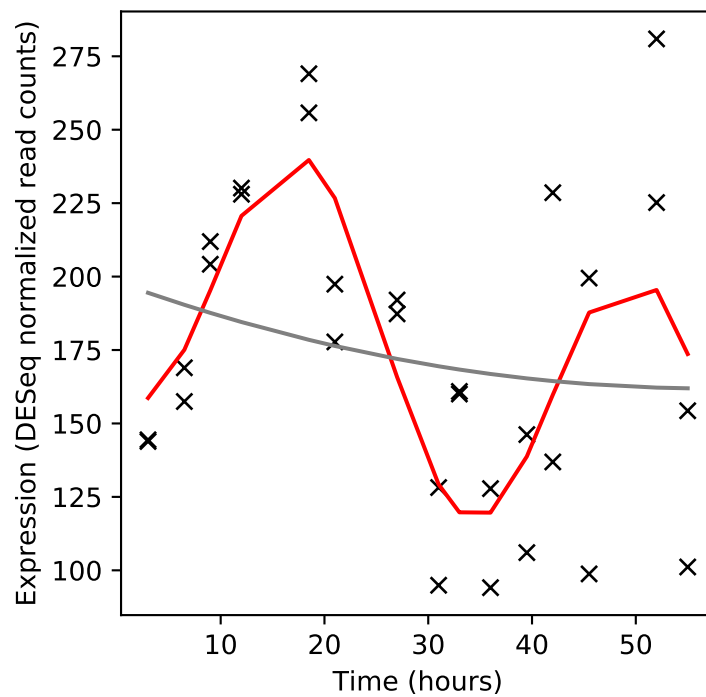
Rv2250c/-



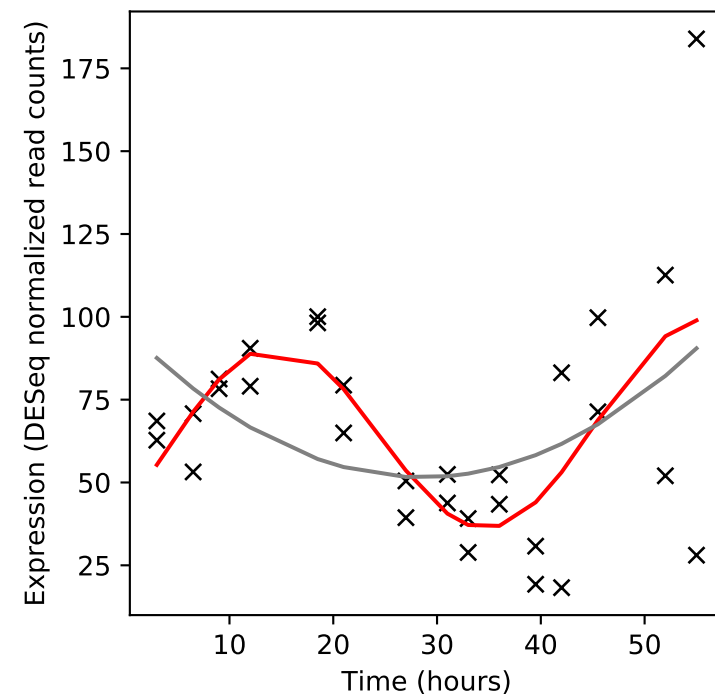
Rv2250A/-



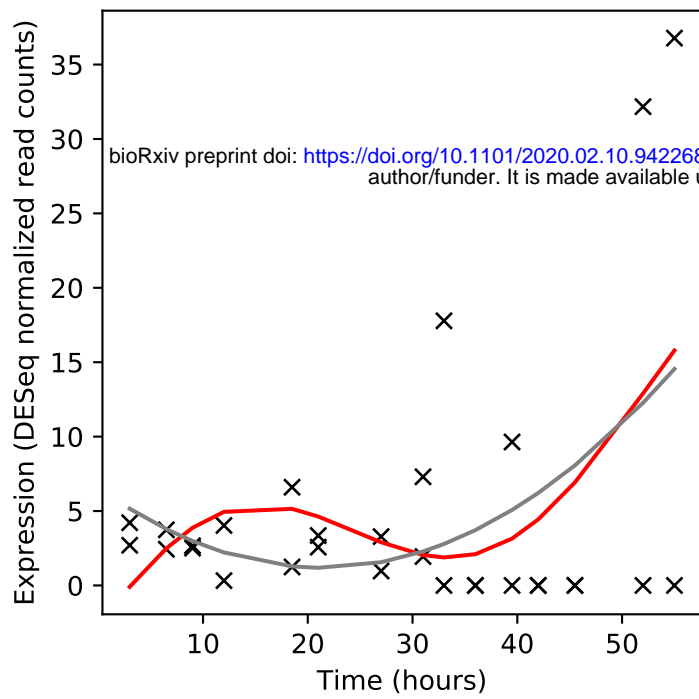
Rv2251/-



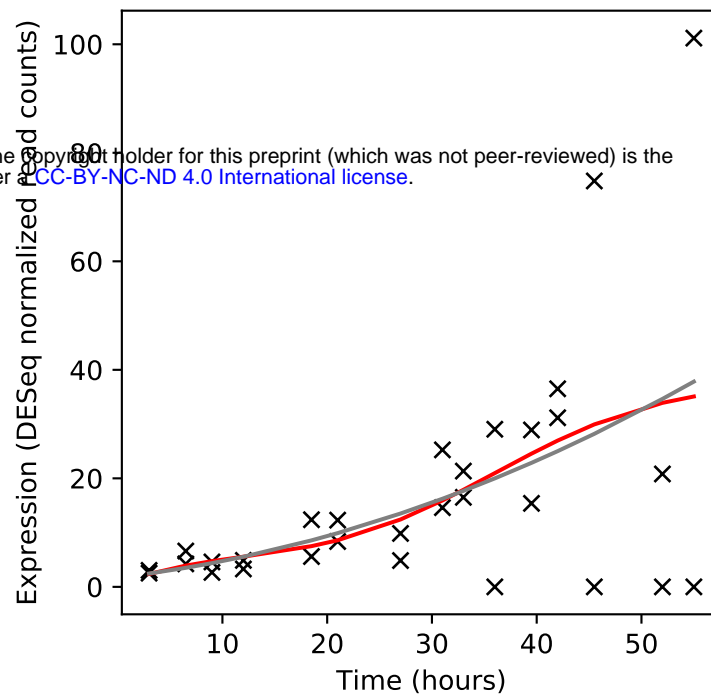
Rv2252/-



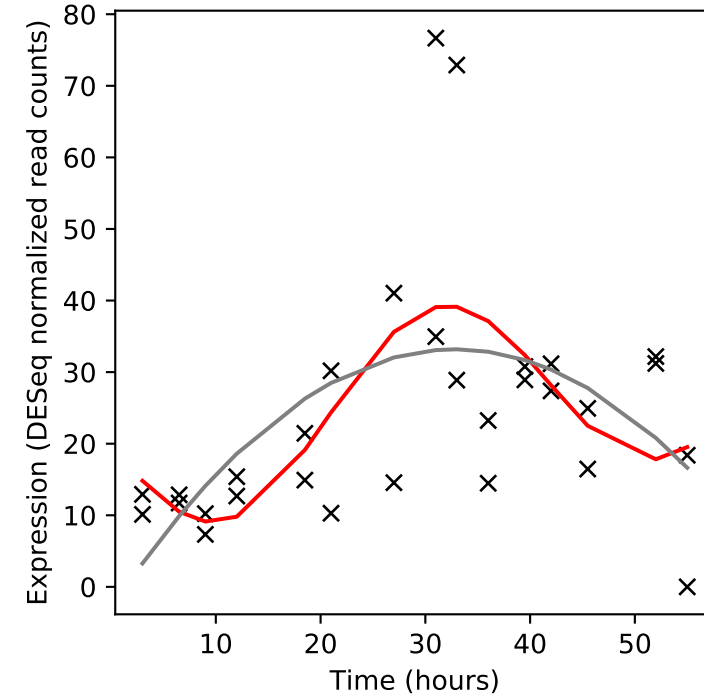
Rv2253/-



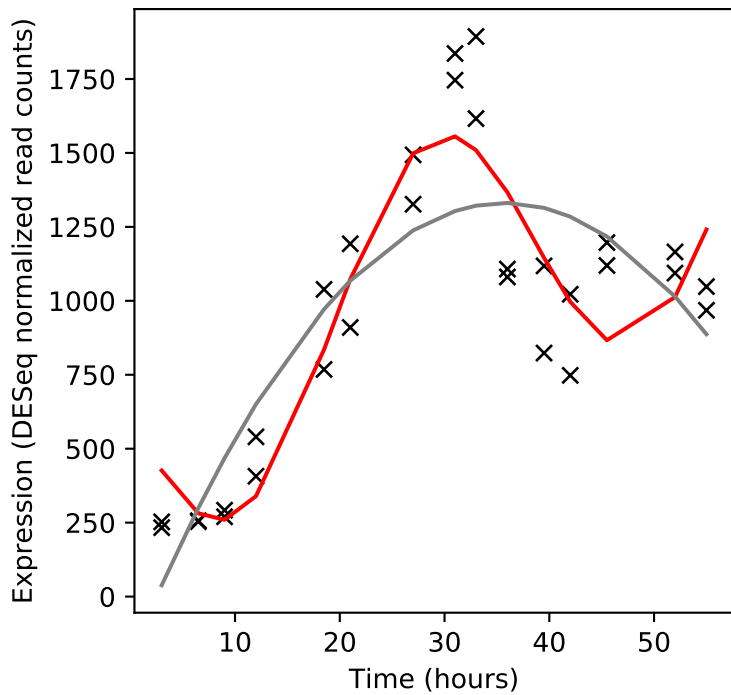
Rv2254c/-



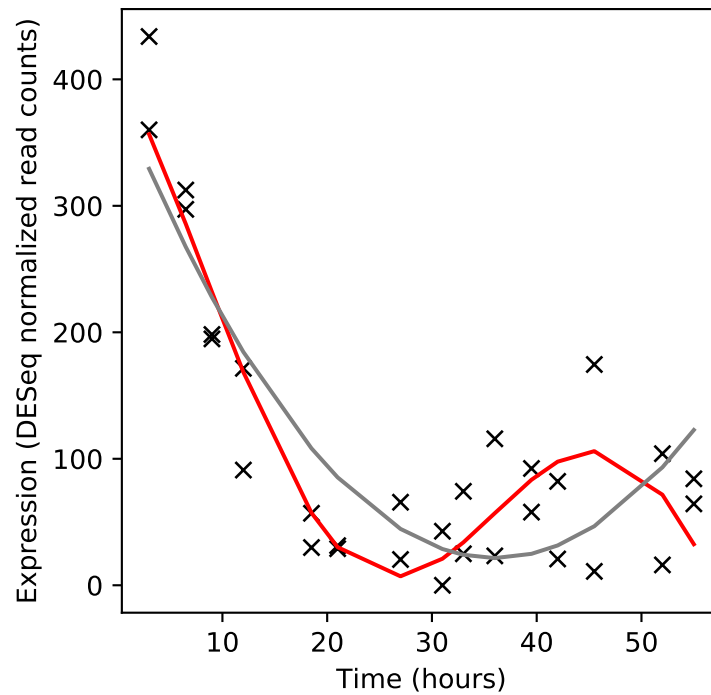
Rv2255c/-



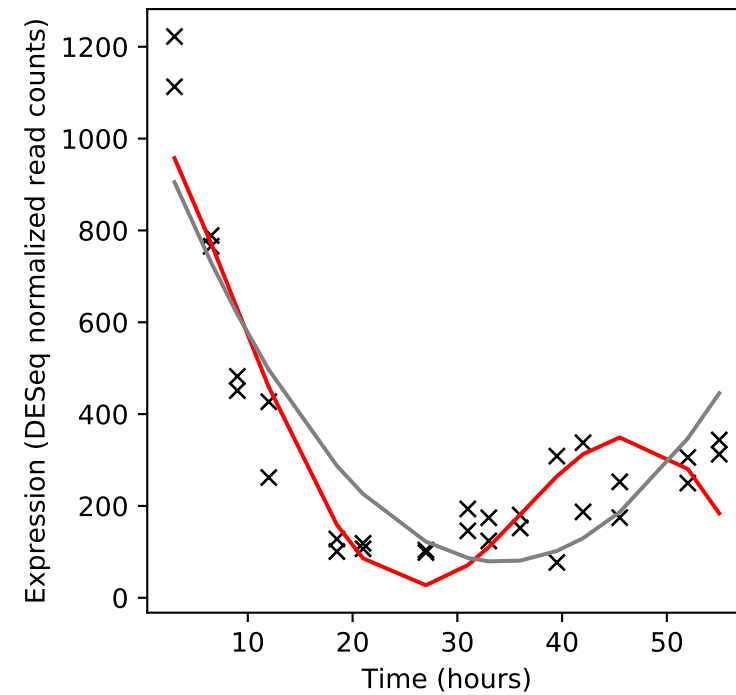
Rv2256c/-



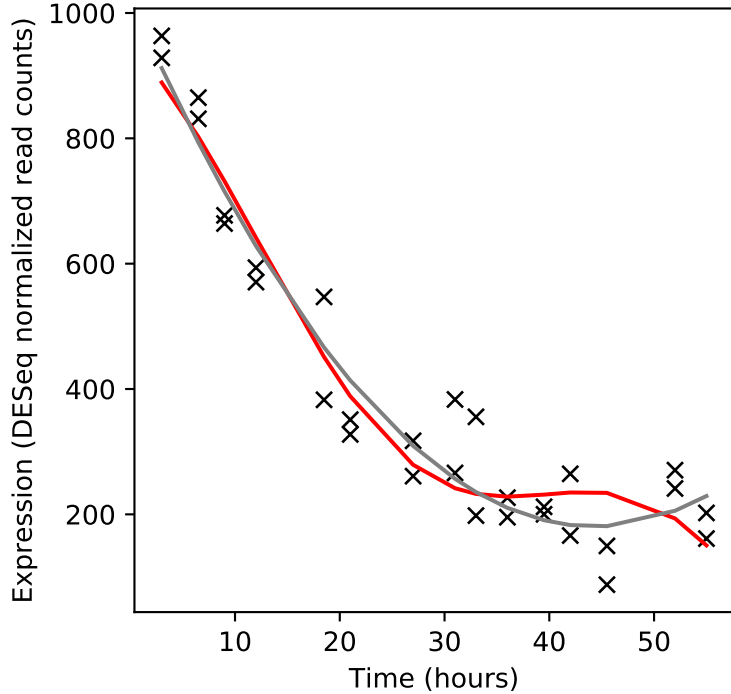
Rv2257c/-



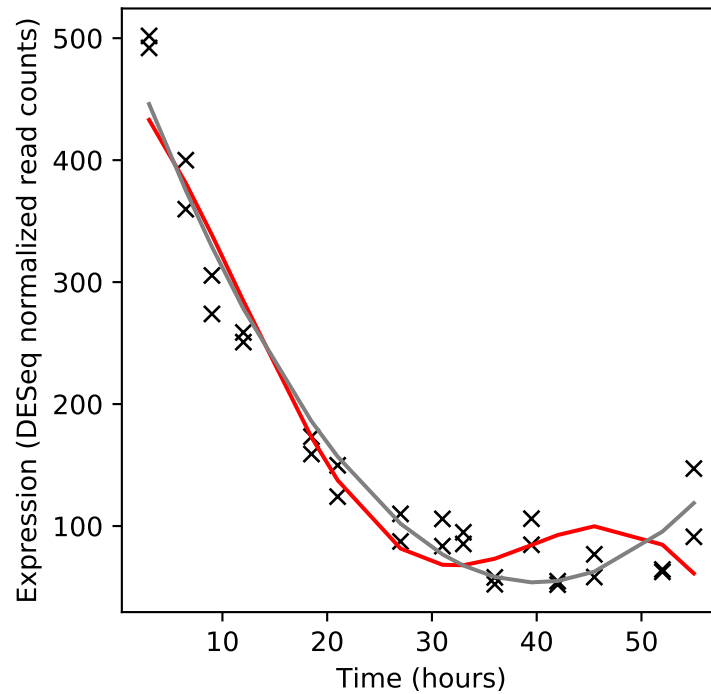
Rv2258c/-



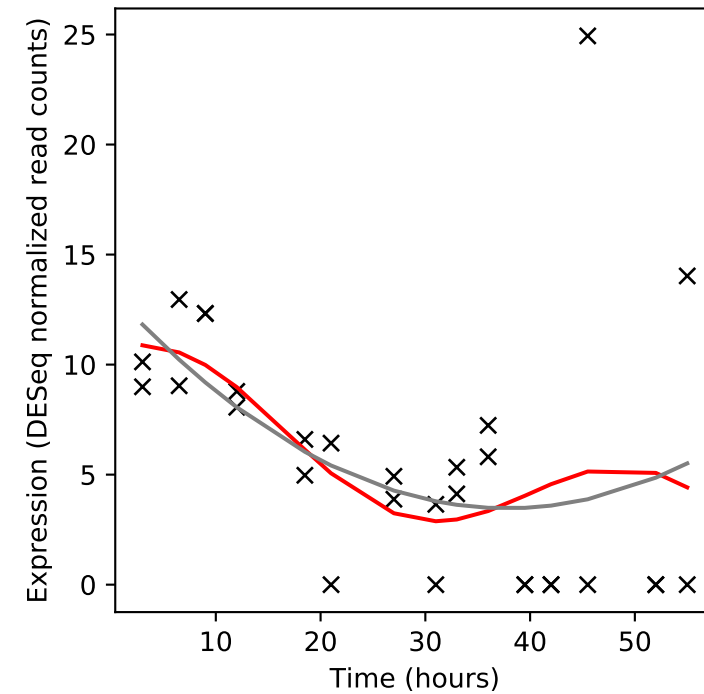
Rv2259/mscR



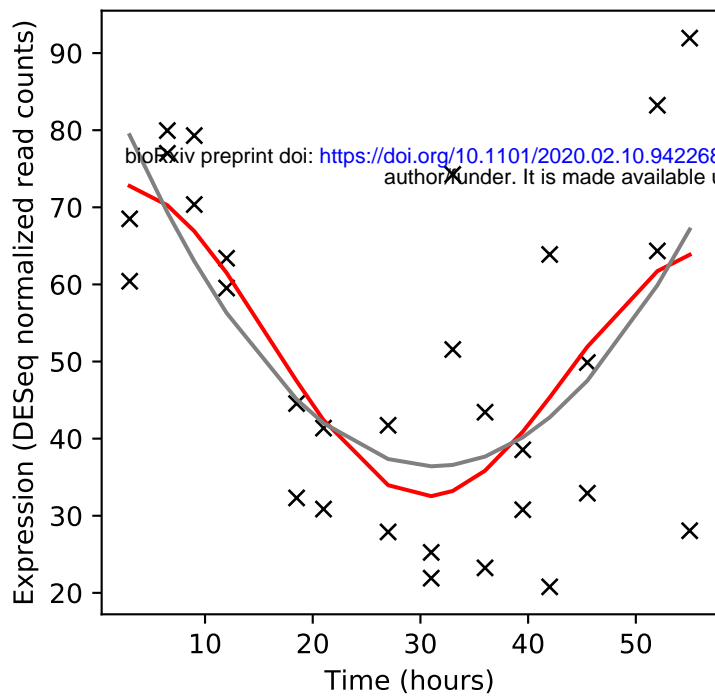
Rv2260/-



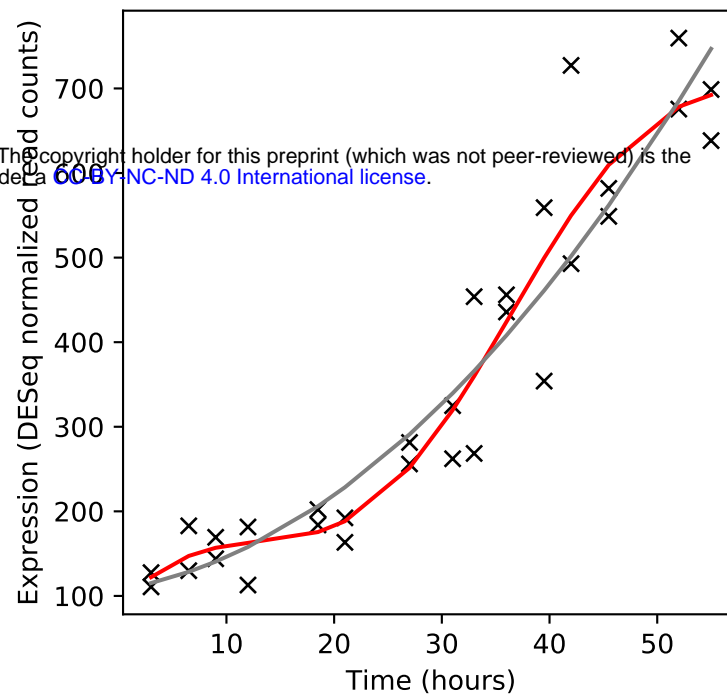
Rv2261c/-



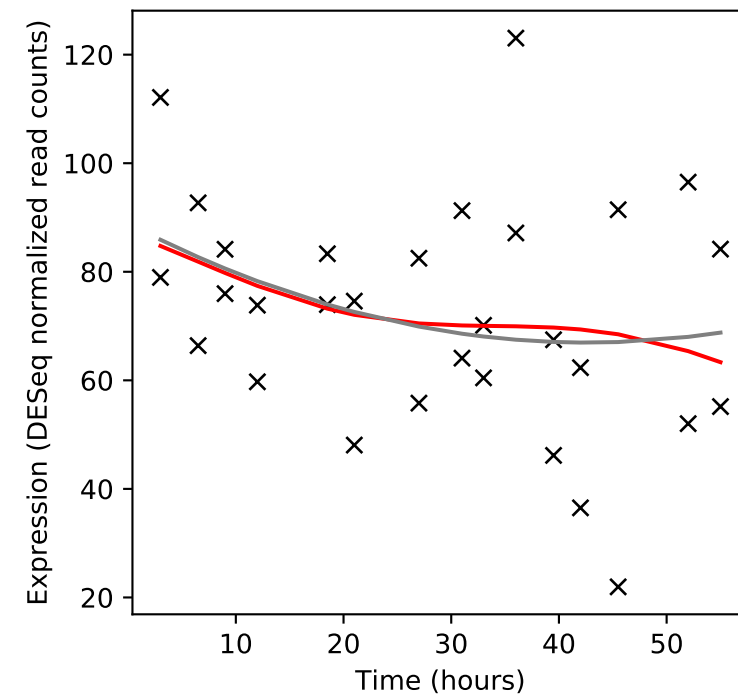
Rv2262c/-



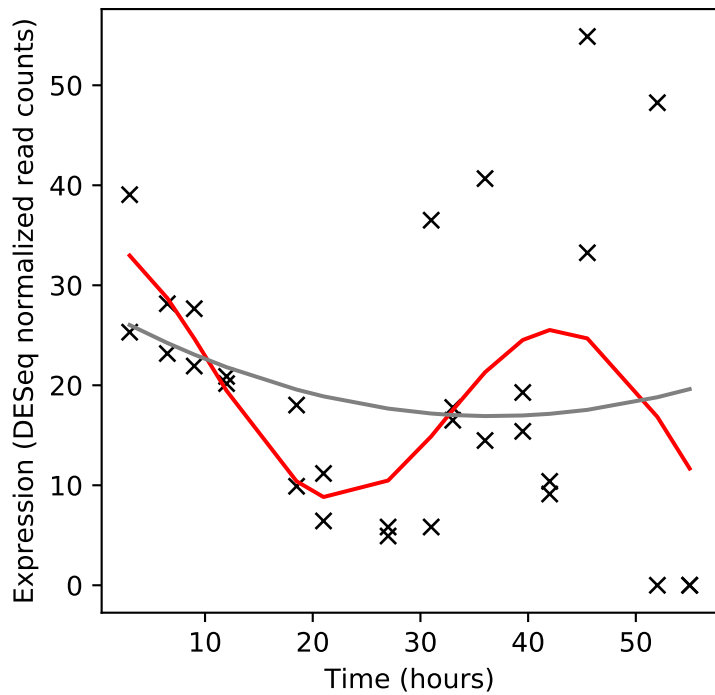
Rv2263/-



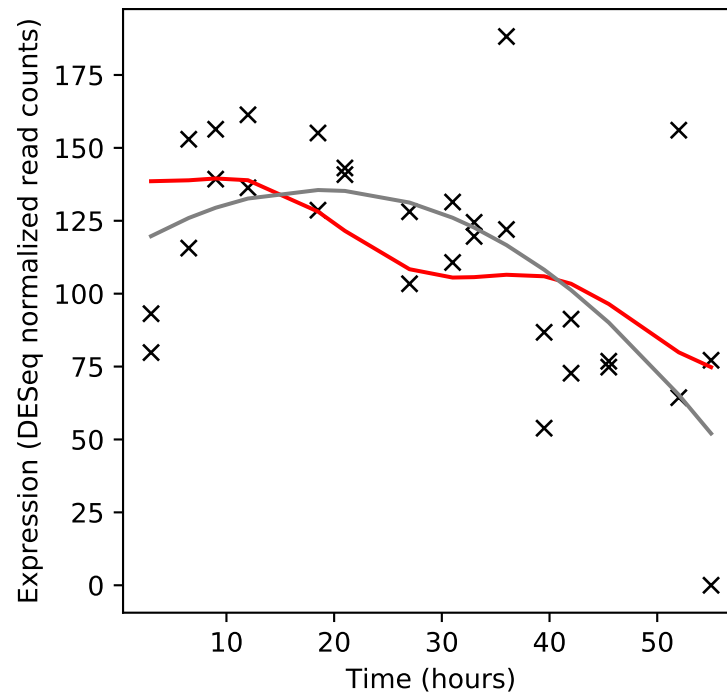
Rv2264c/-



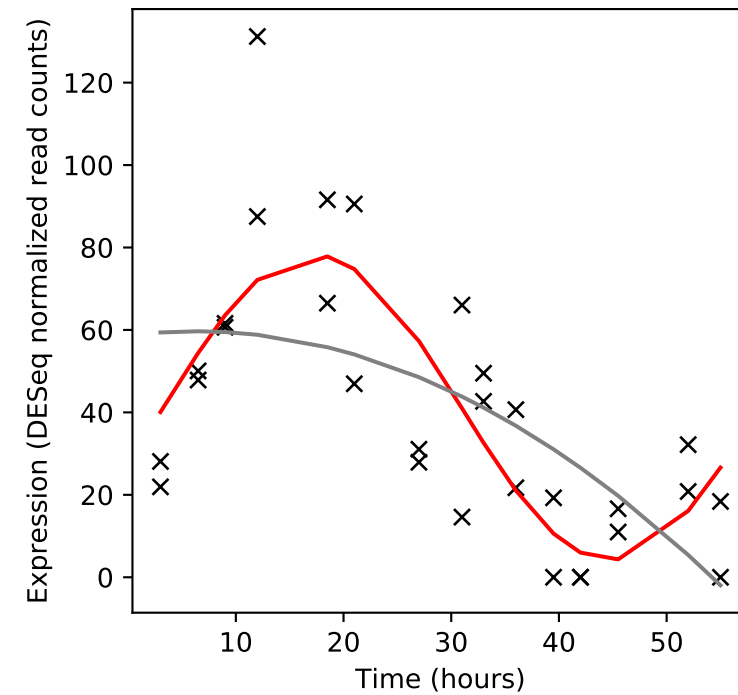
Rv2265/-



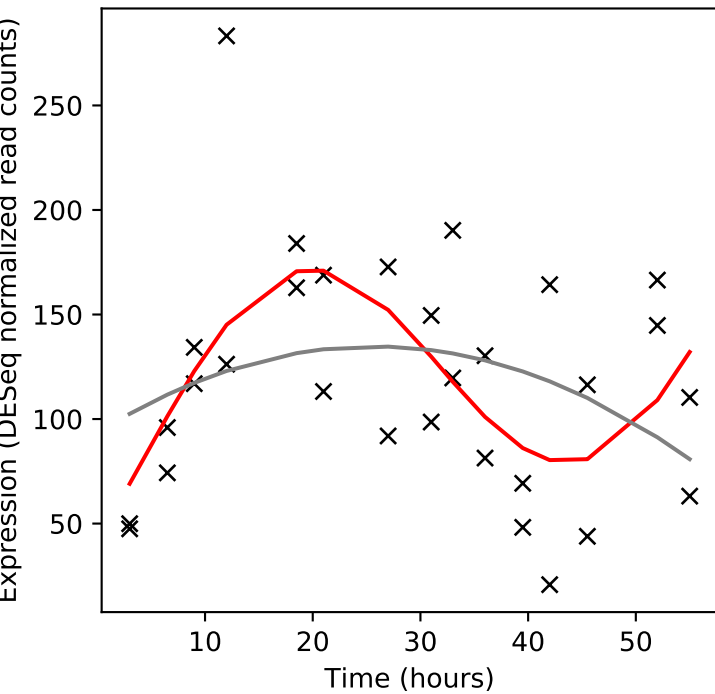
Rv2266/cyp124



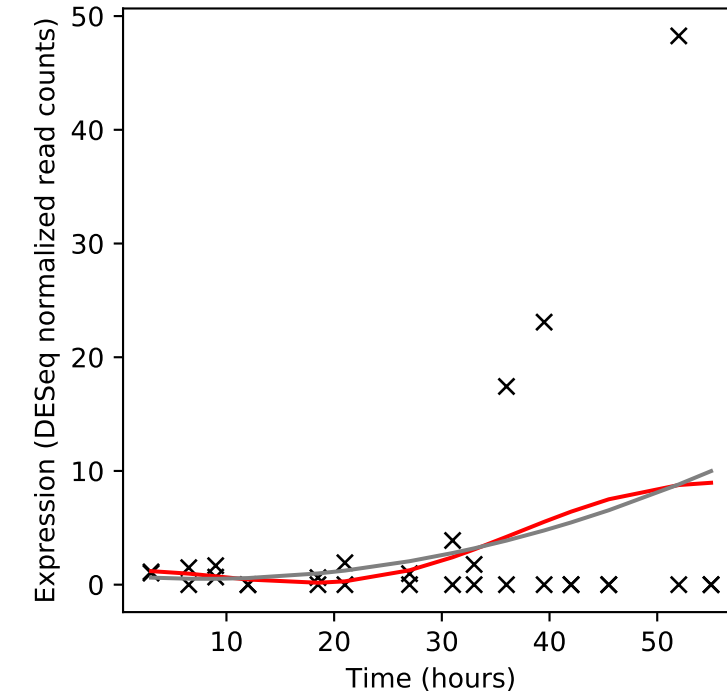
Rv2267c/-



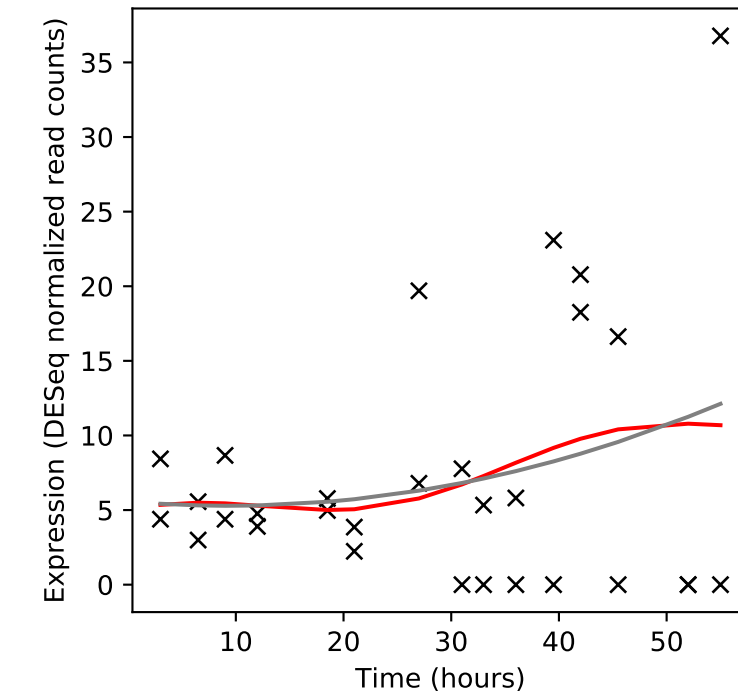
Rv2268c/cyp128



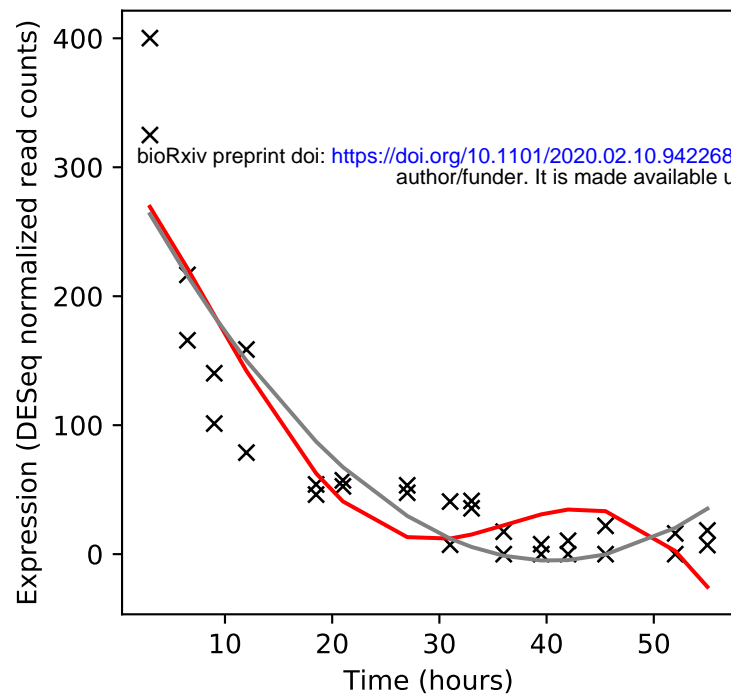
Rv2269c/-



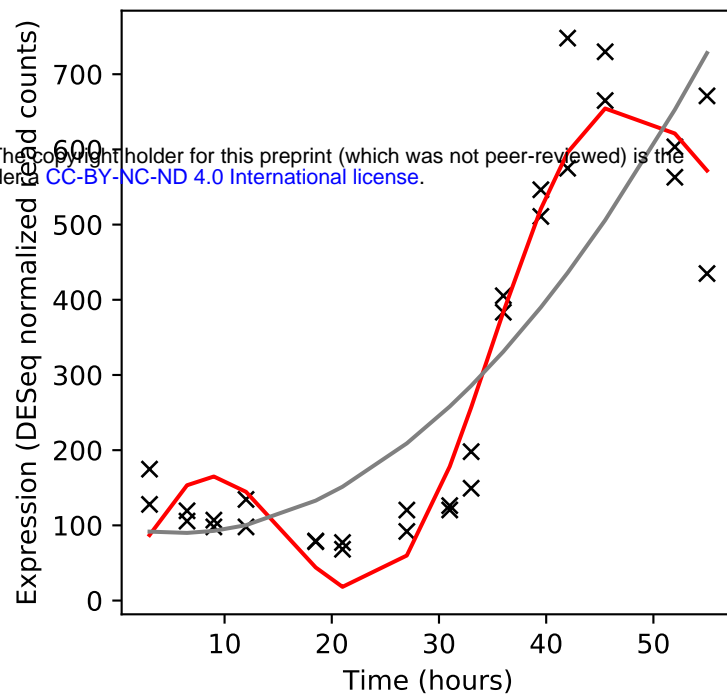
Rv2270/lppN



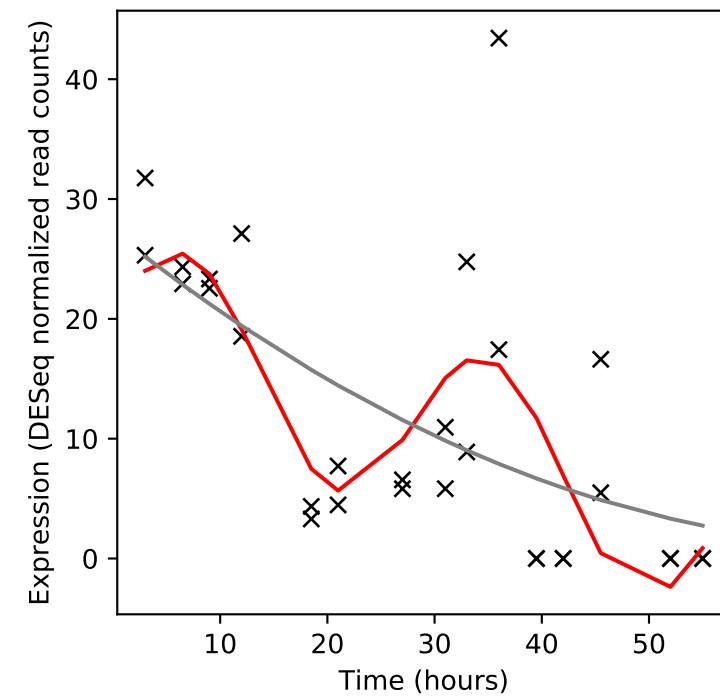
Rv2271/-



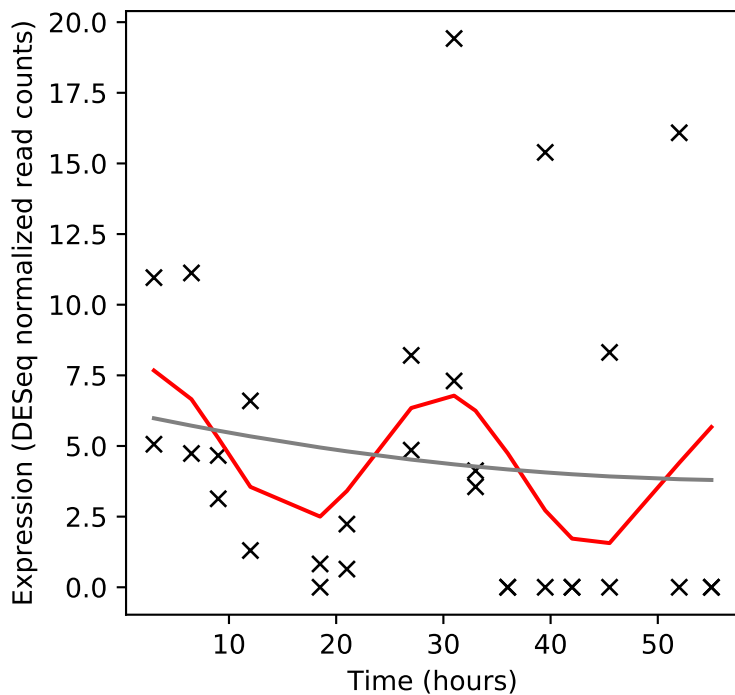
Rv2272/-



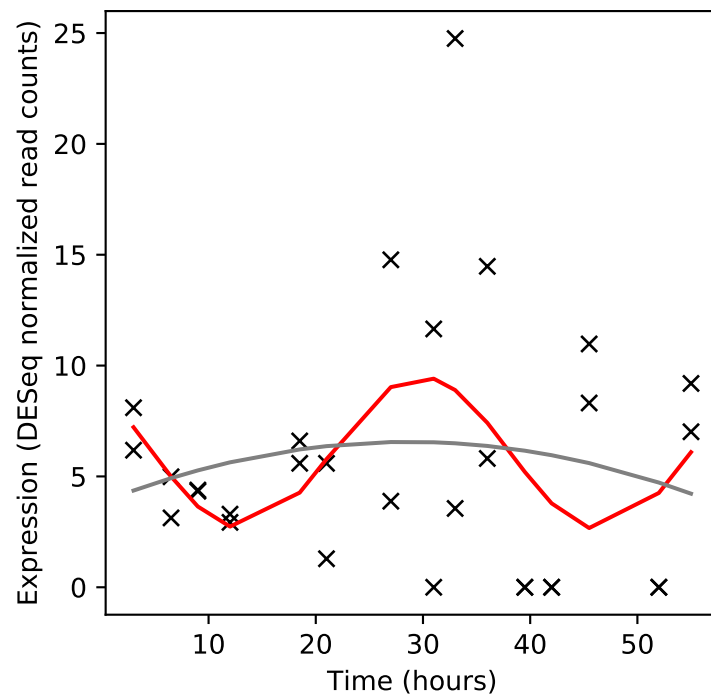
Rv2273/-



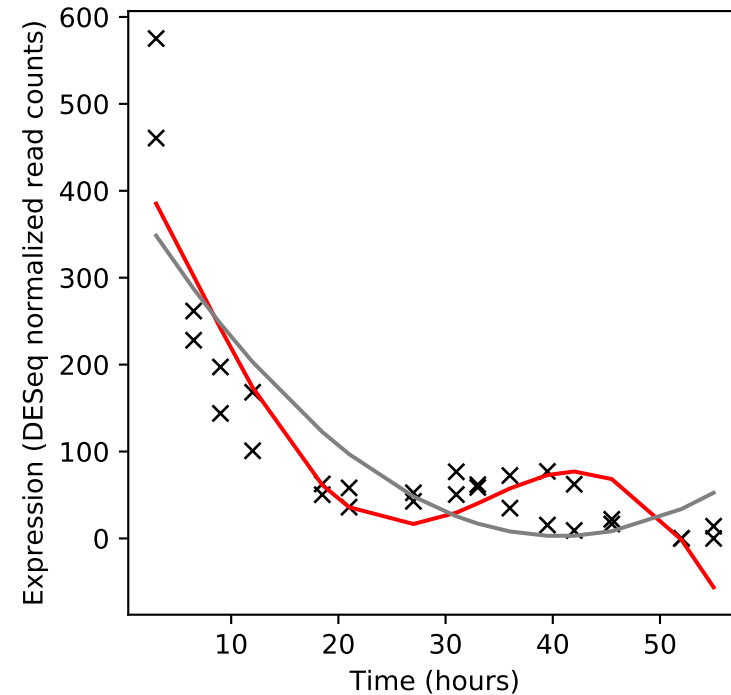
Rv2274c/mazF8



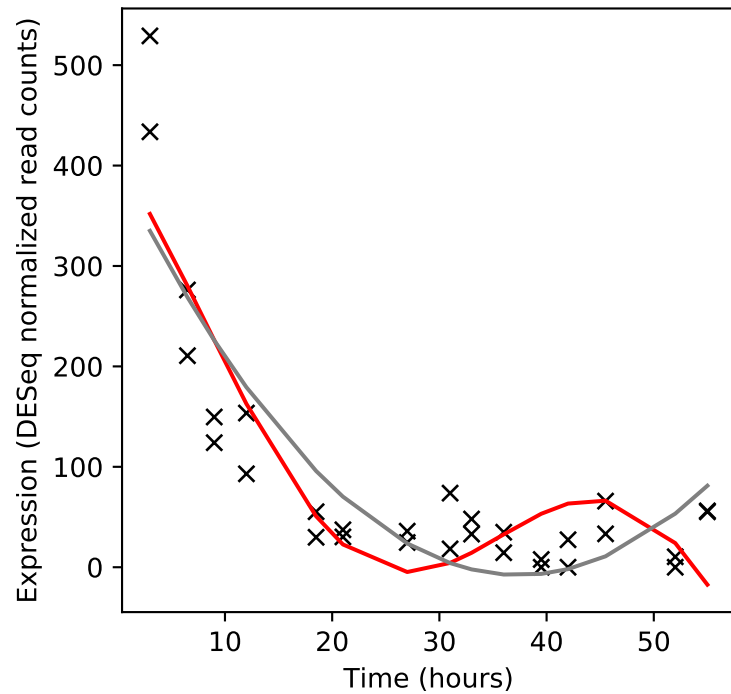
Rv2274A/mazE8



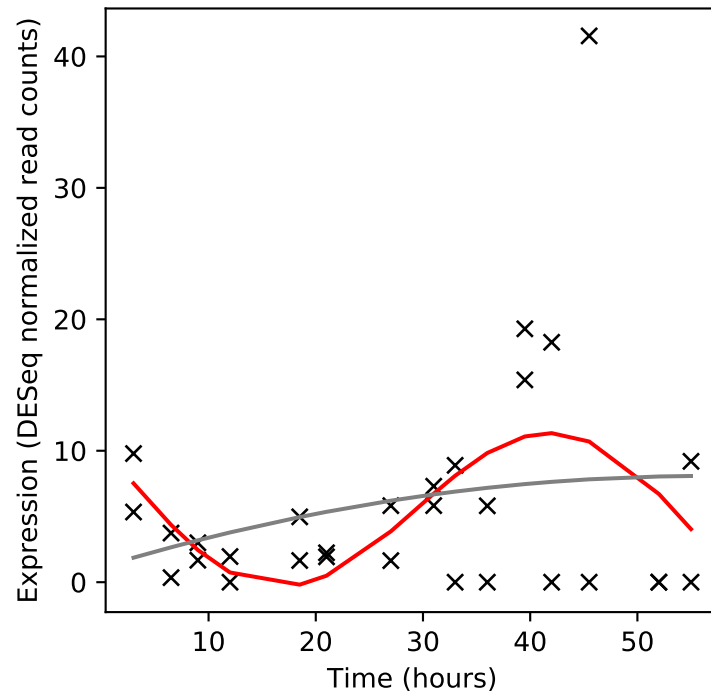
Rv2275/-



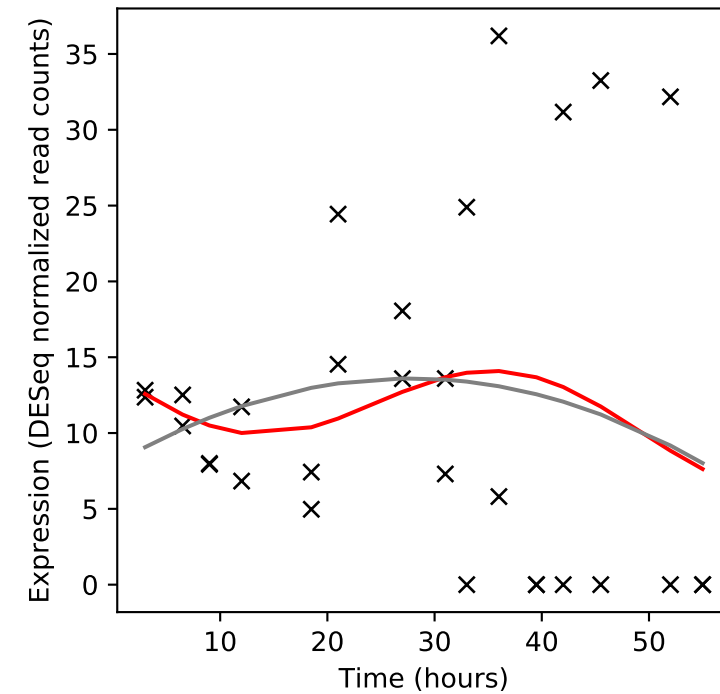
Rv2276/cyp121

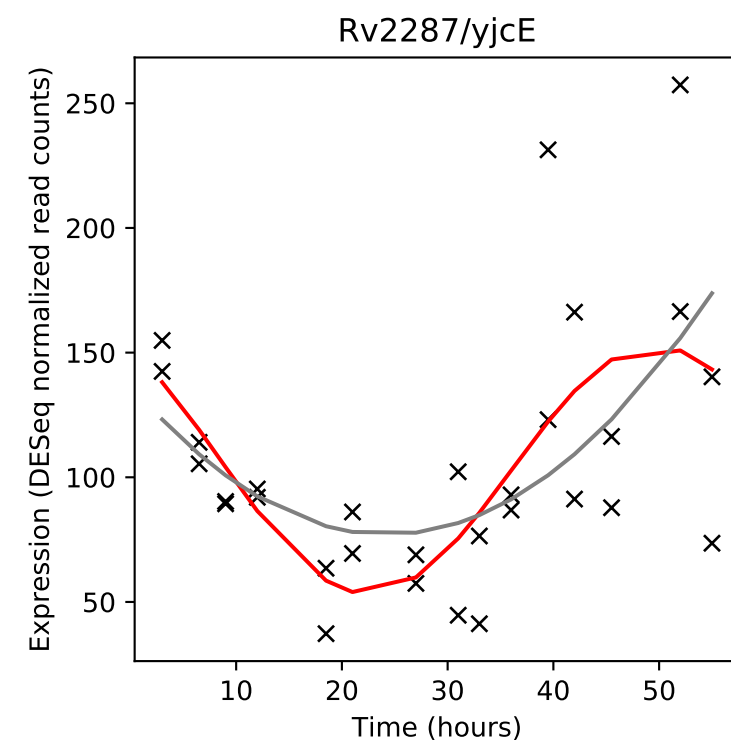
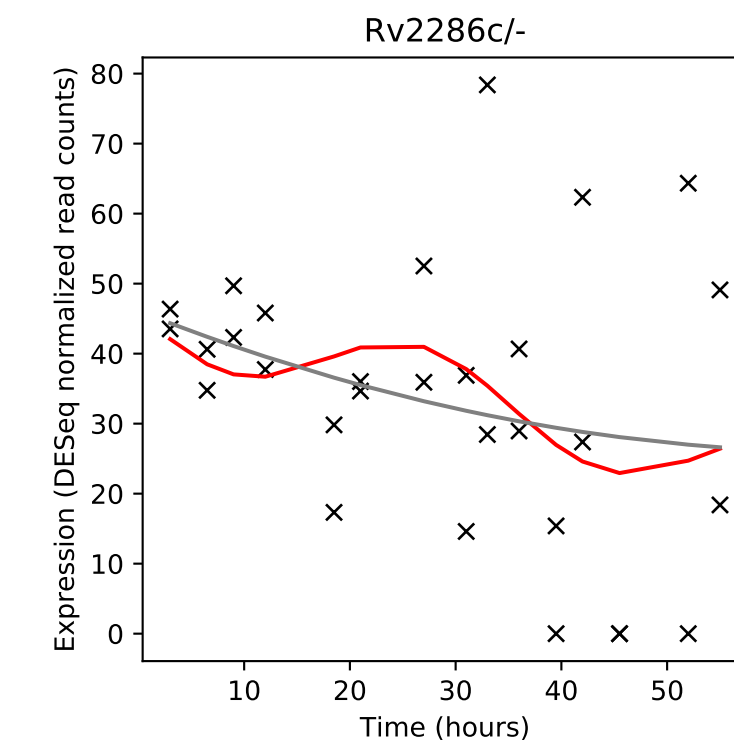
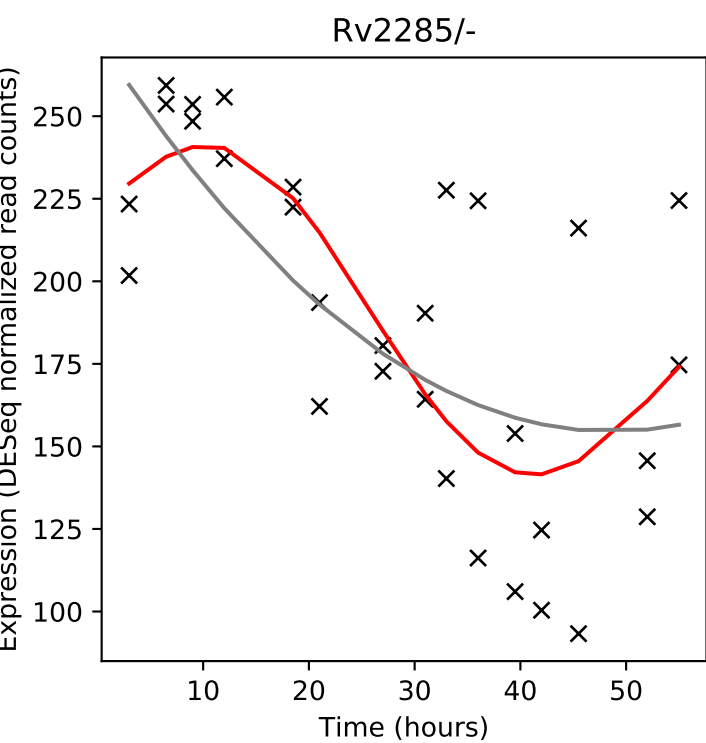
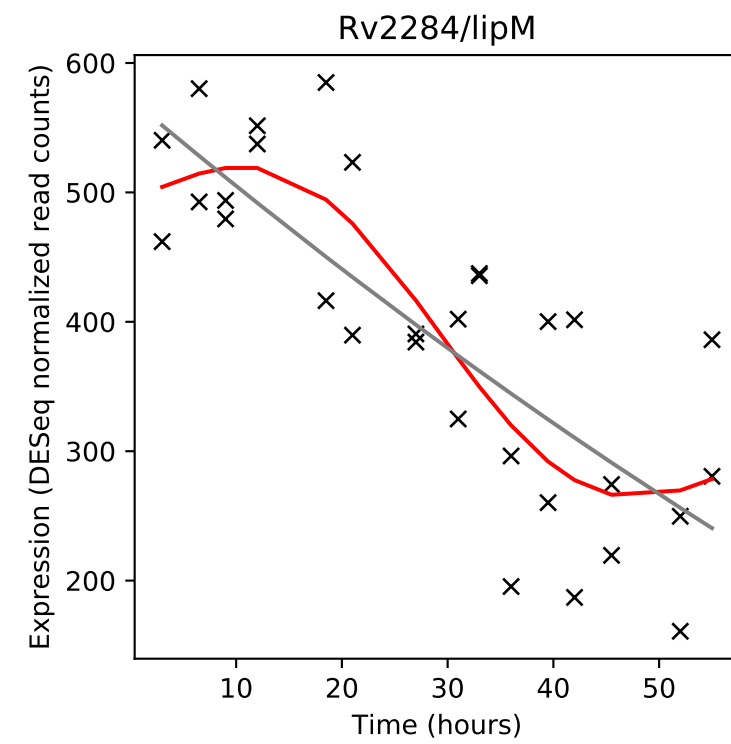
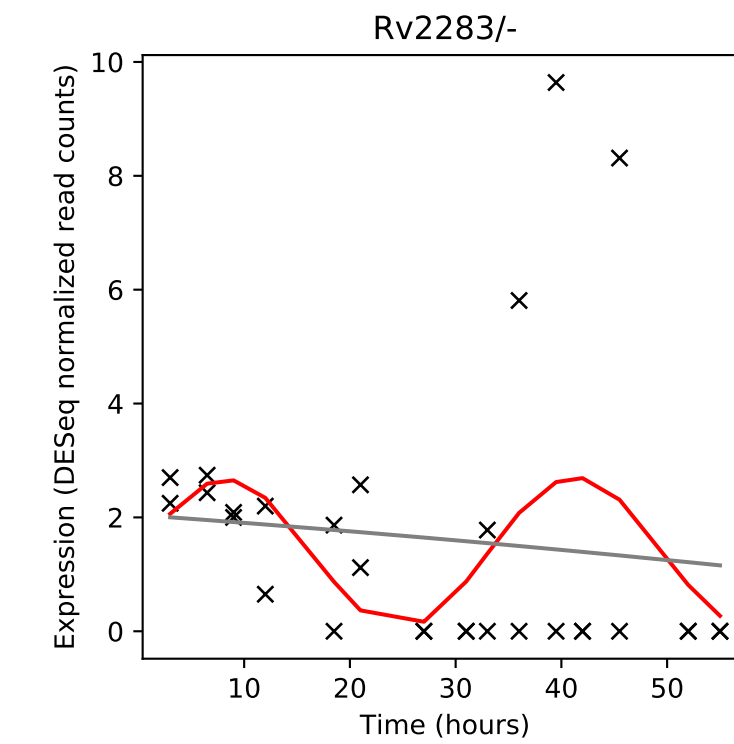
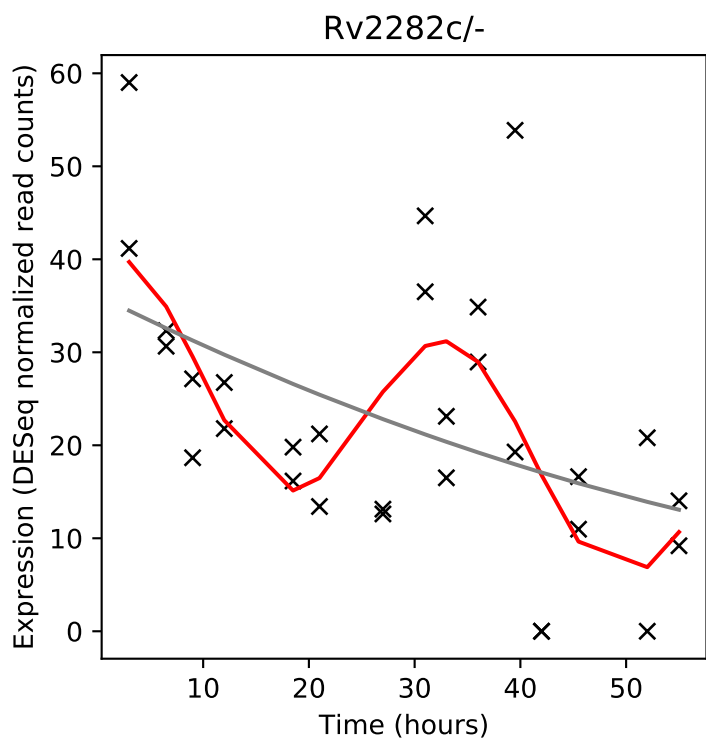
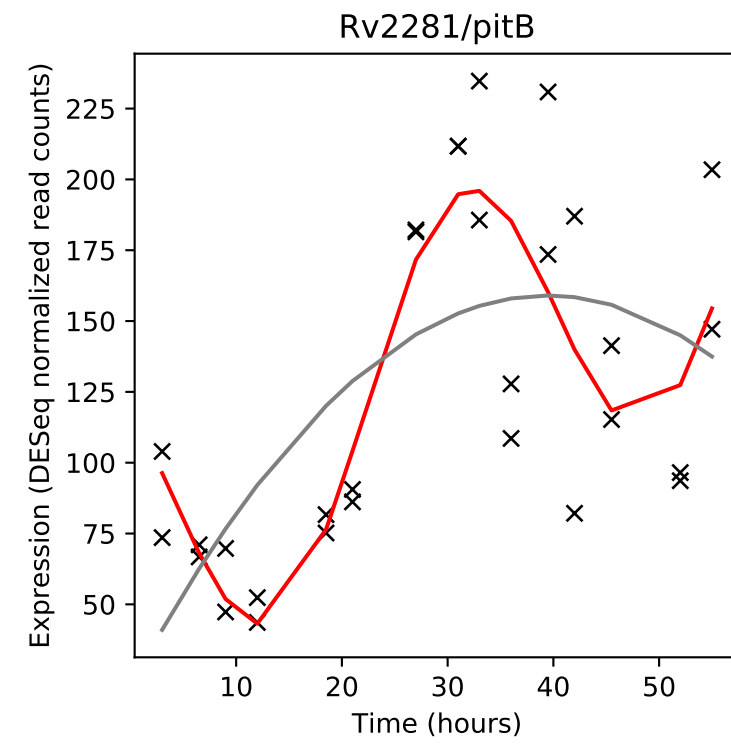
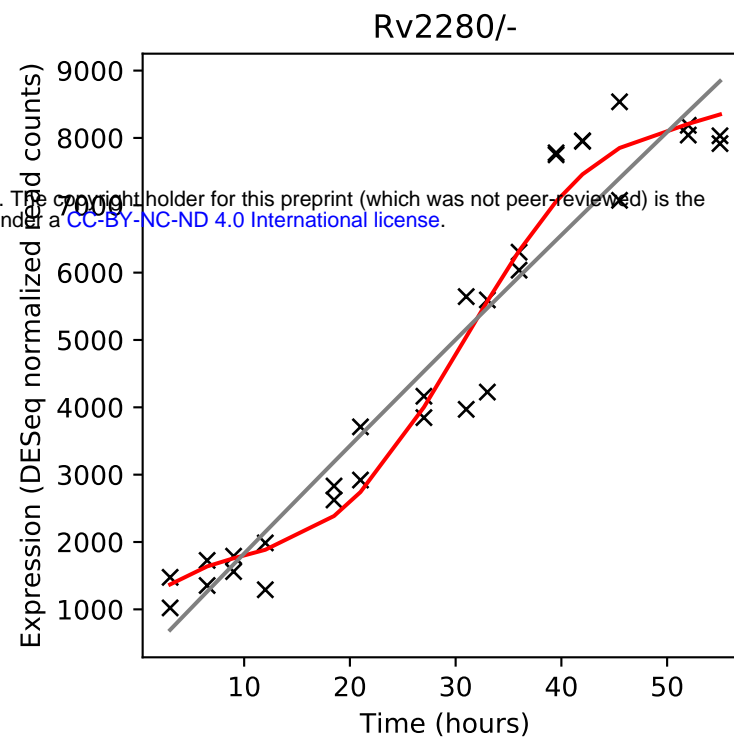
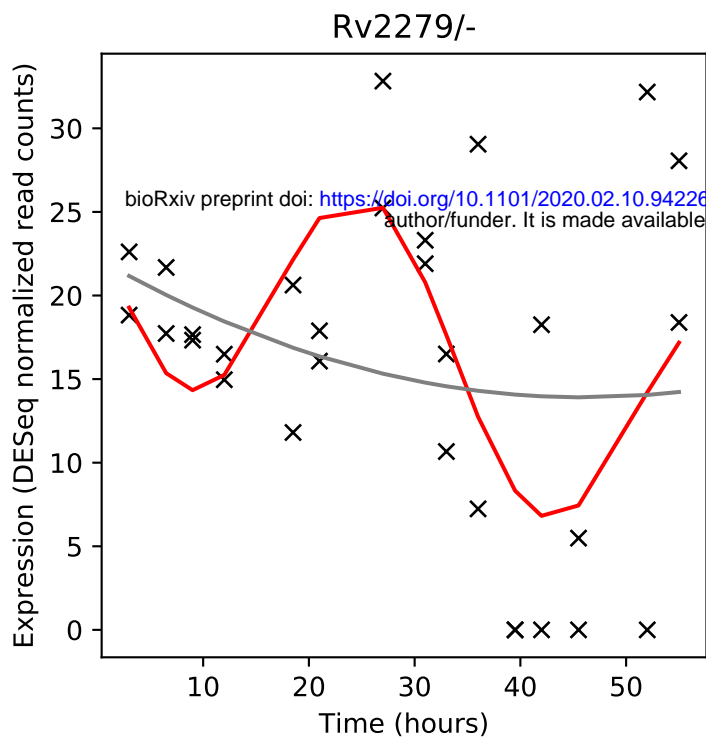


Rv2277c/-

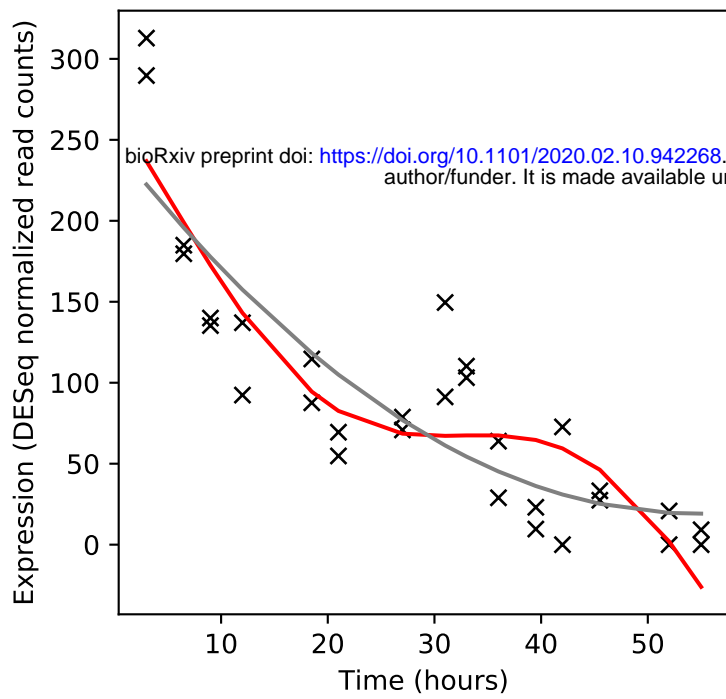


Rv2278/-

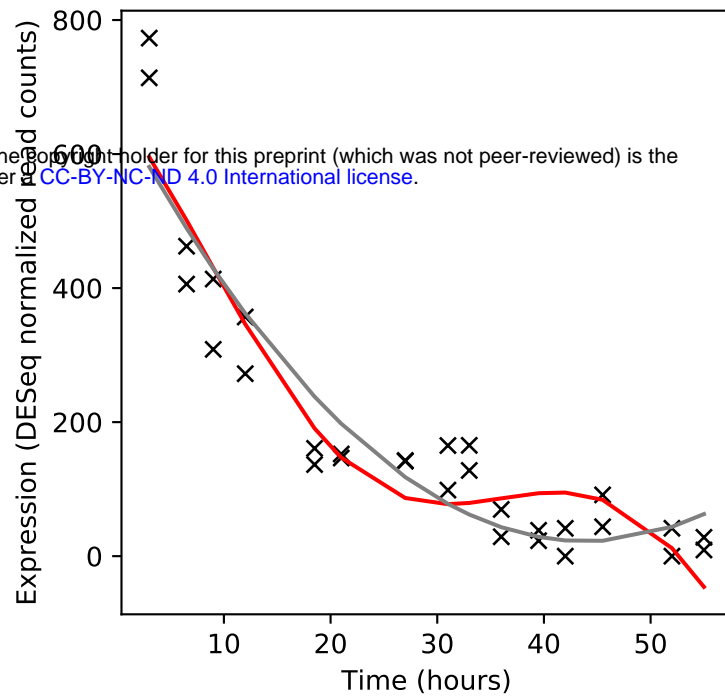




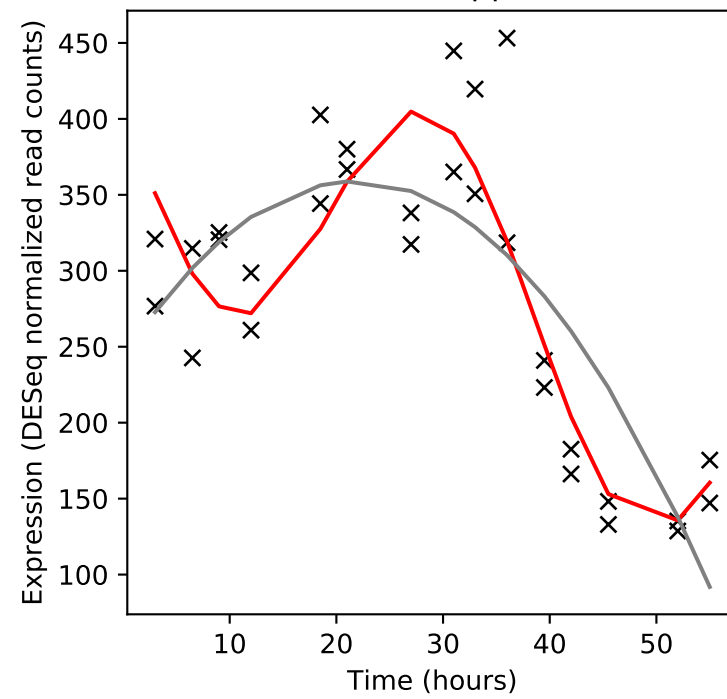
Rv2288/-



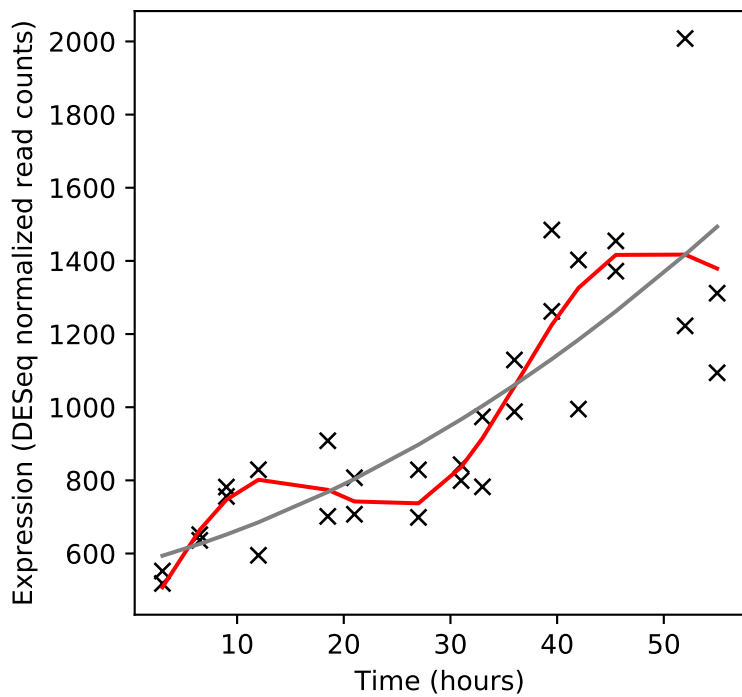
Rv2289/cdh



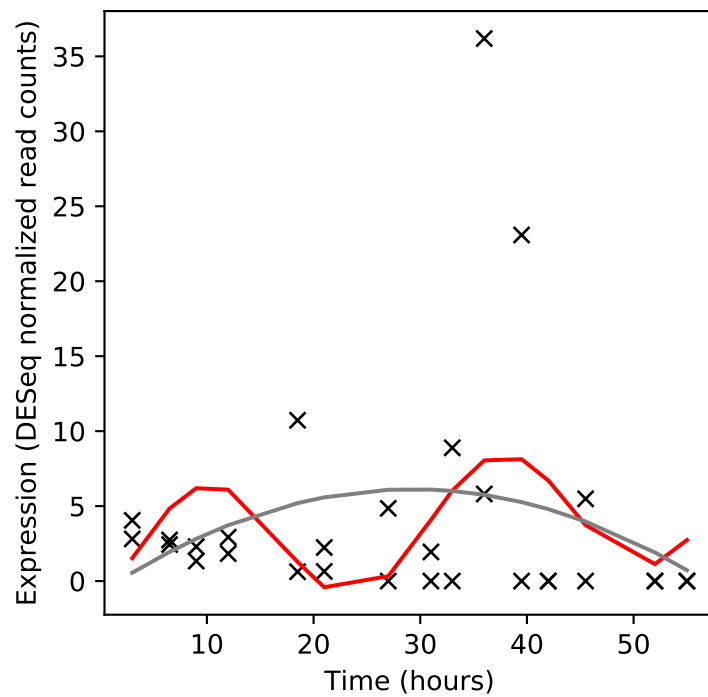
Rv2290/lppO



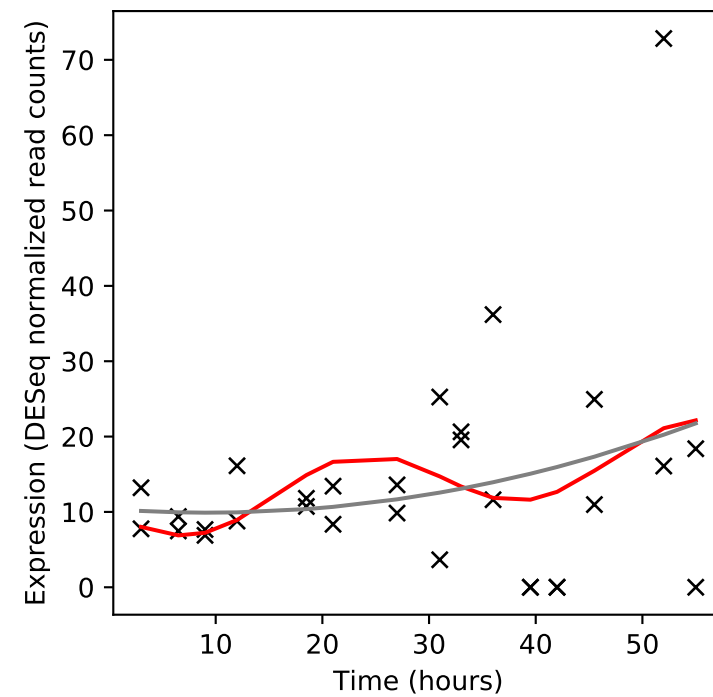
Rv2291/sseB



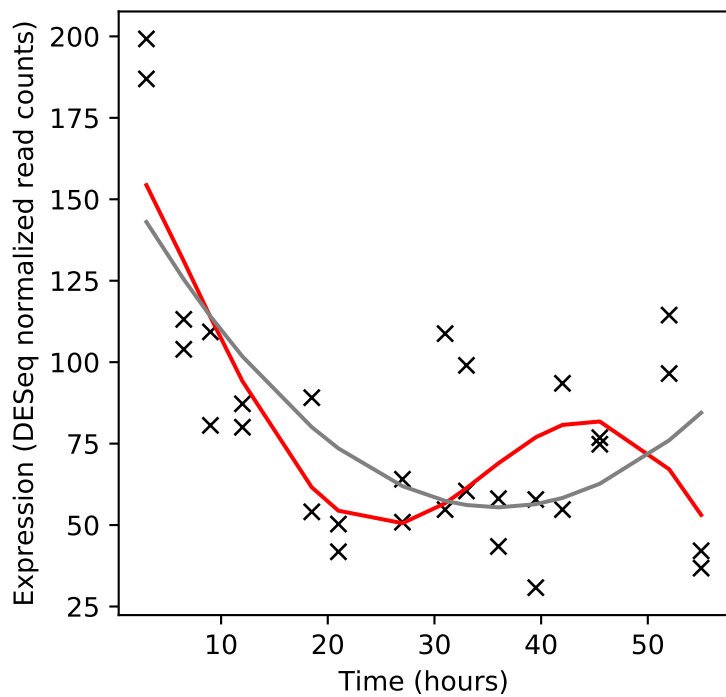
Rv2292c/-



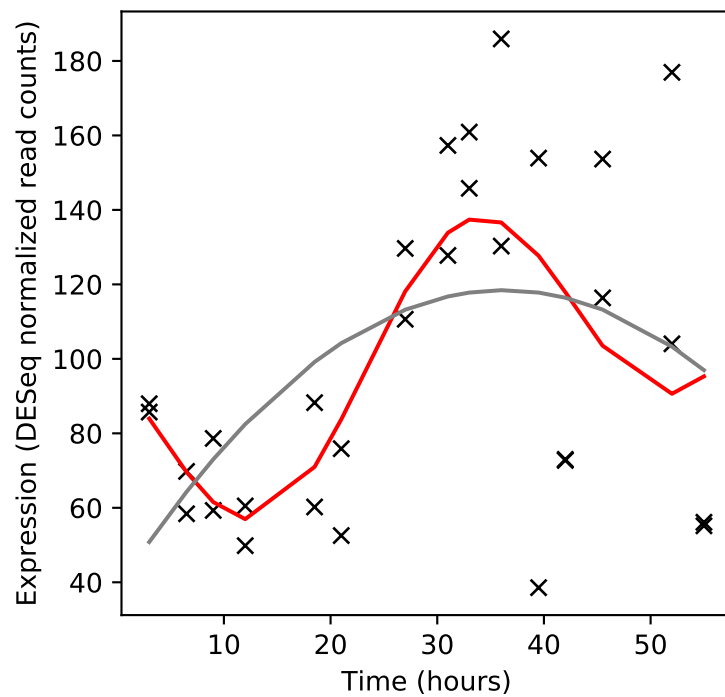
Rv2293c/-



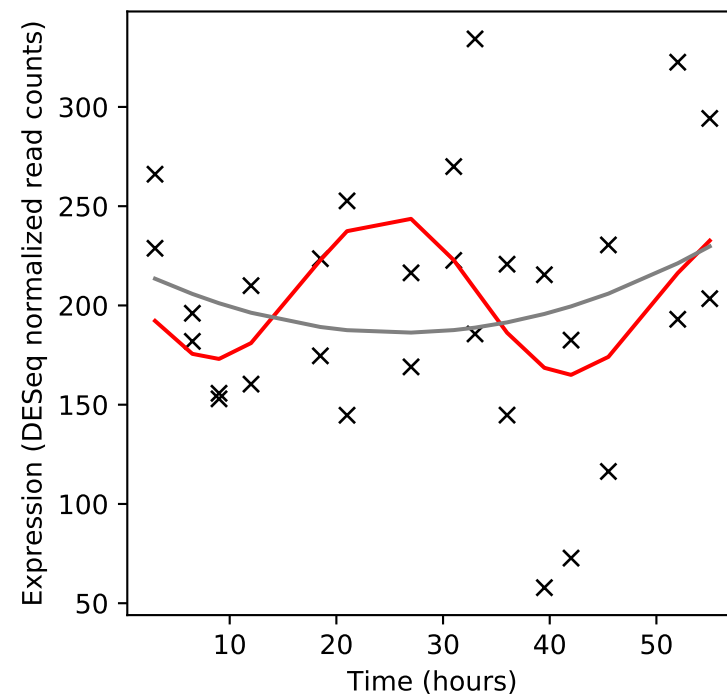
Rv2294/-



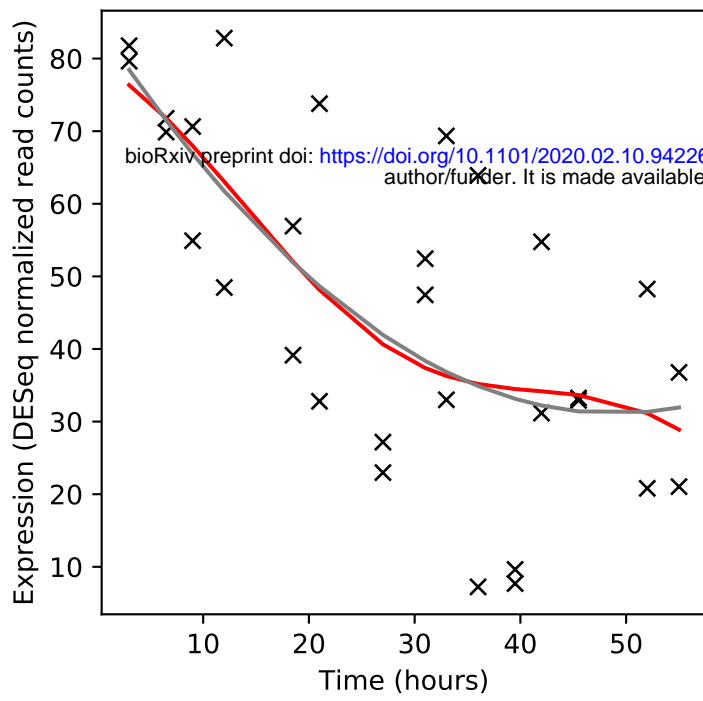
Rv2295/-



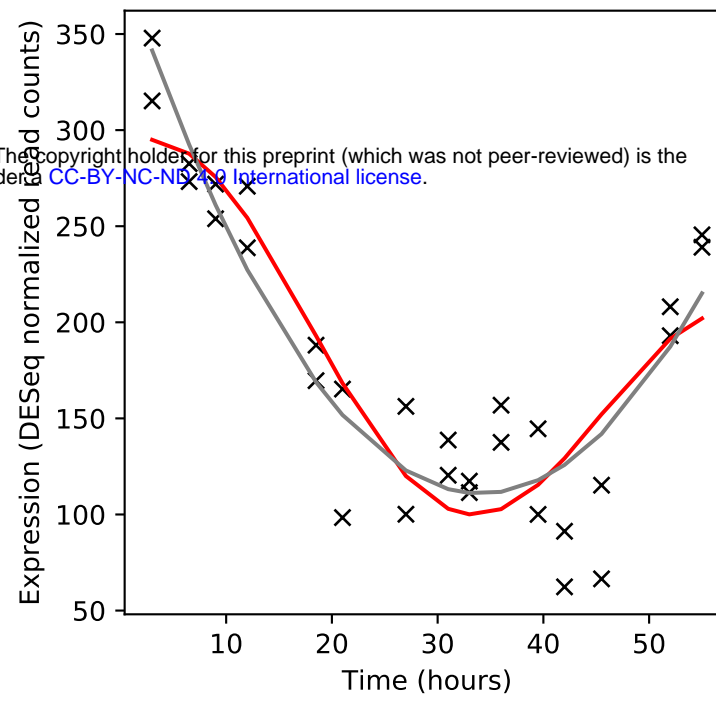
Rv2296/-



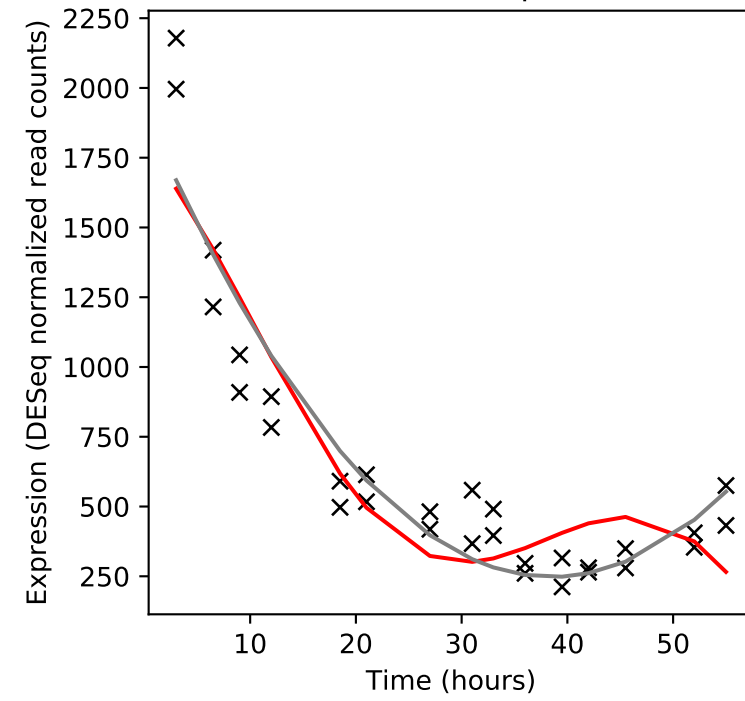
Rv2297/-



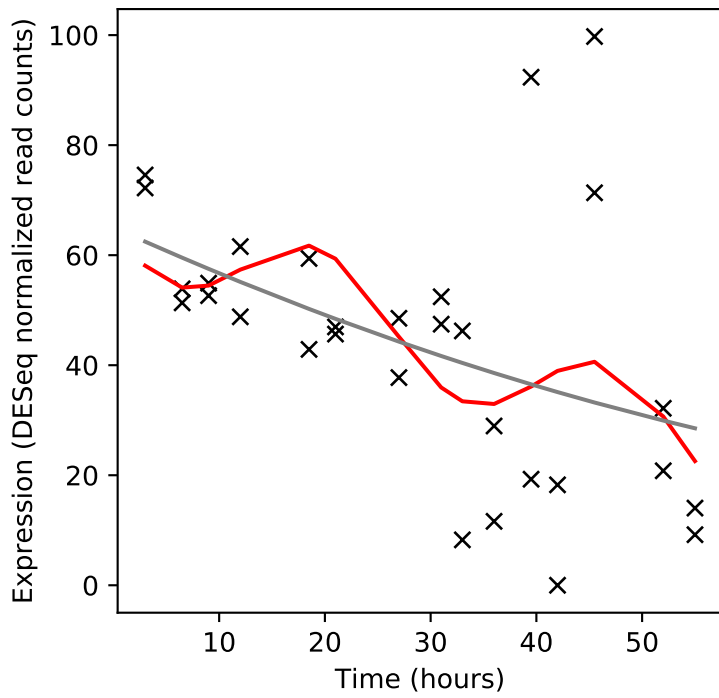
Rv2298/-



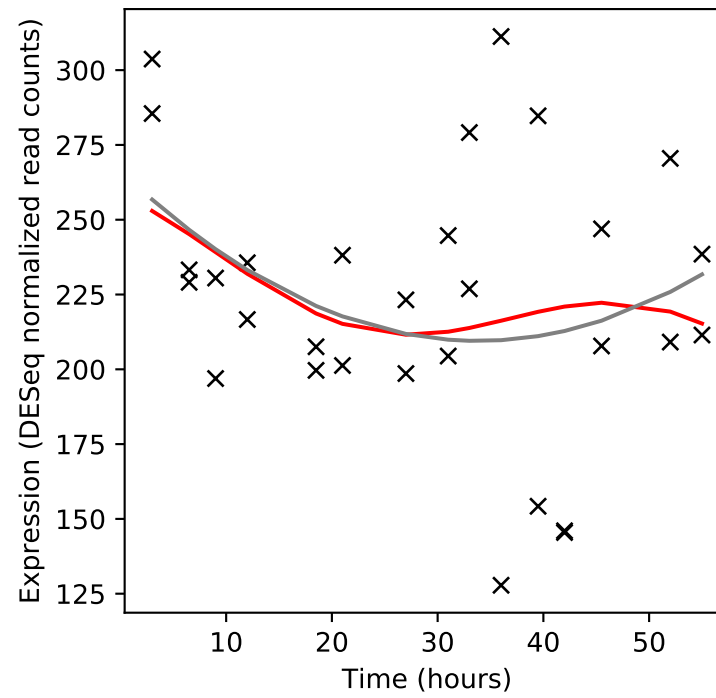
Rv2299c/htpG



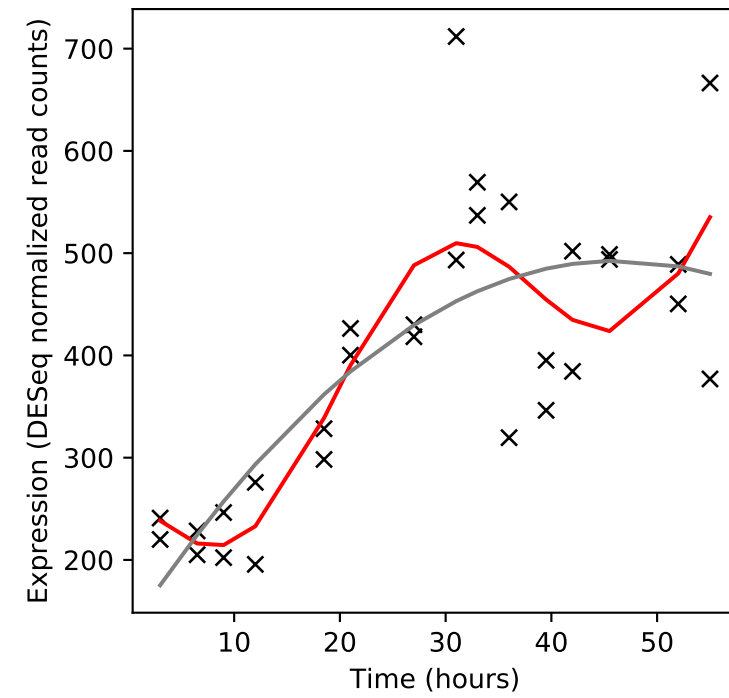
Rv2300c/-



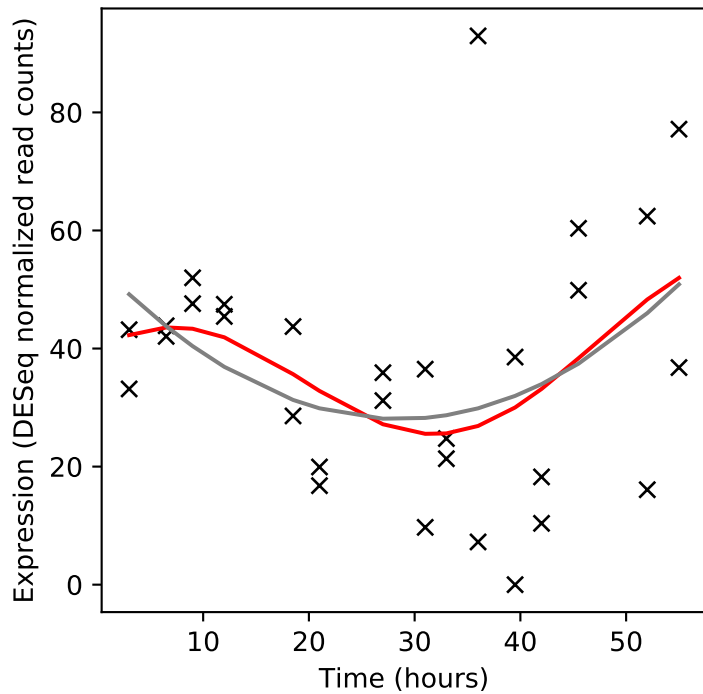
Rv2301/cut2



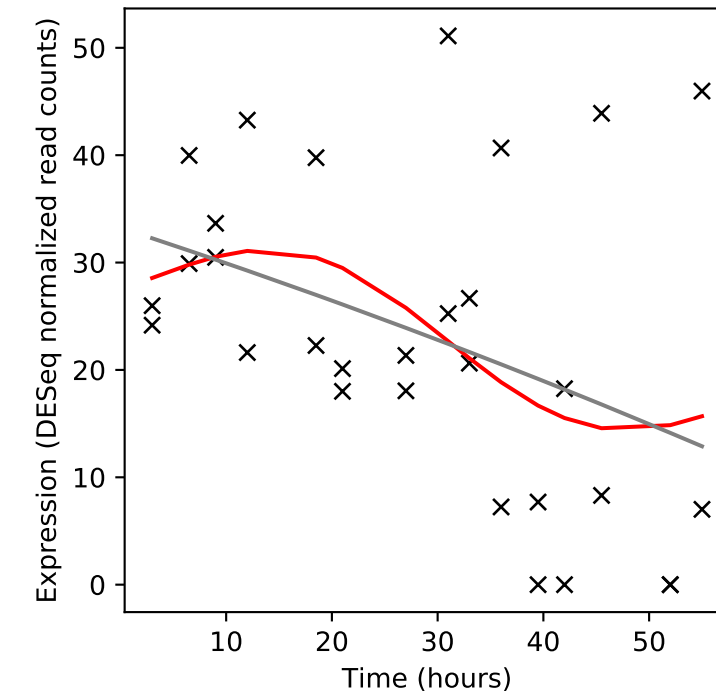
Rv2302/-



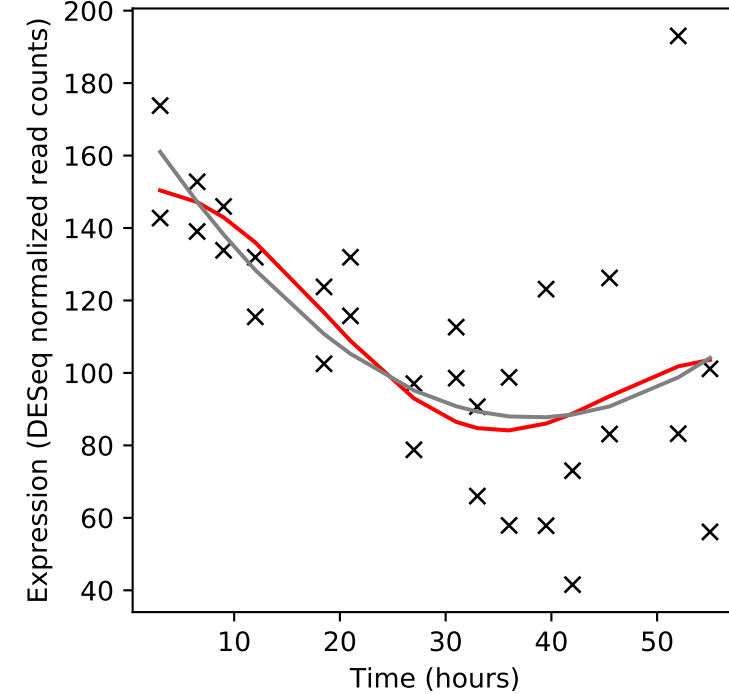
Rv2303c/-



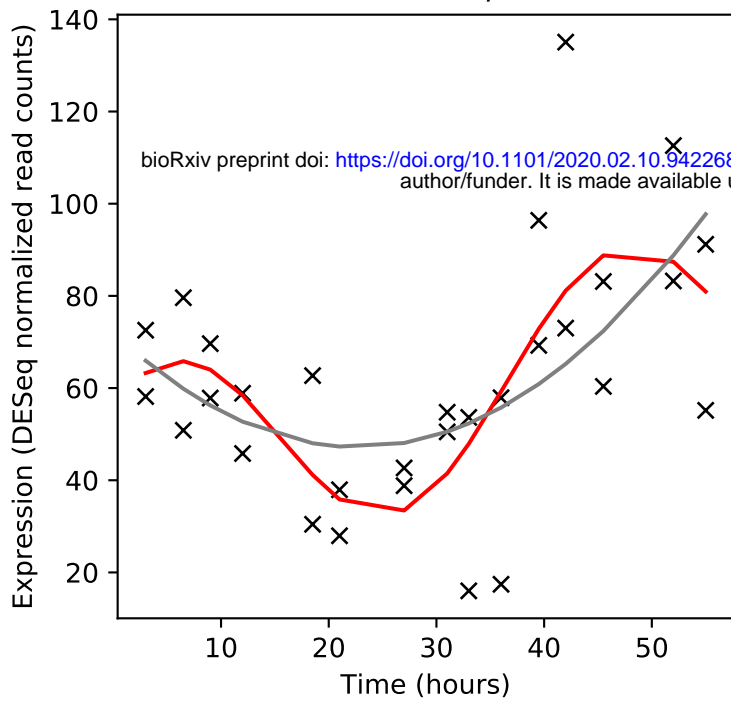
Rv2304c/-



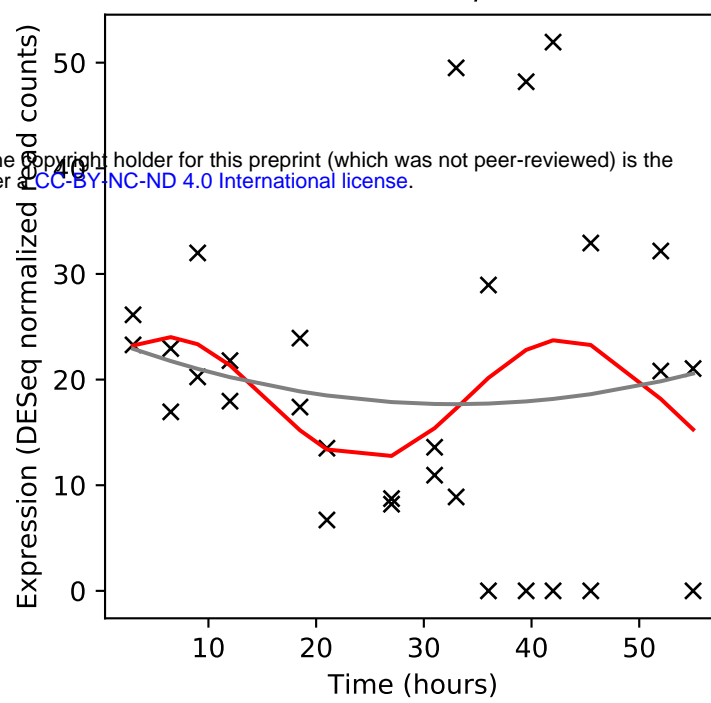
Rv2305/-



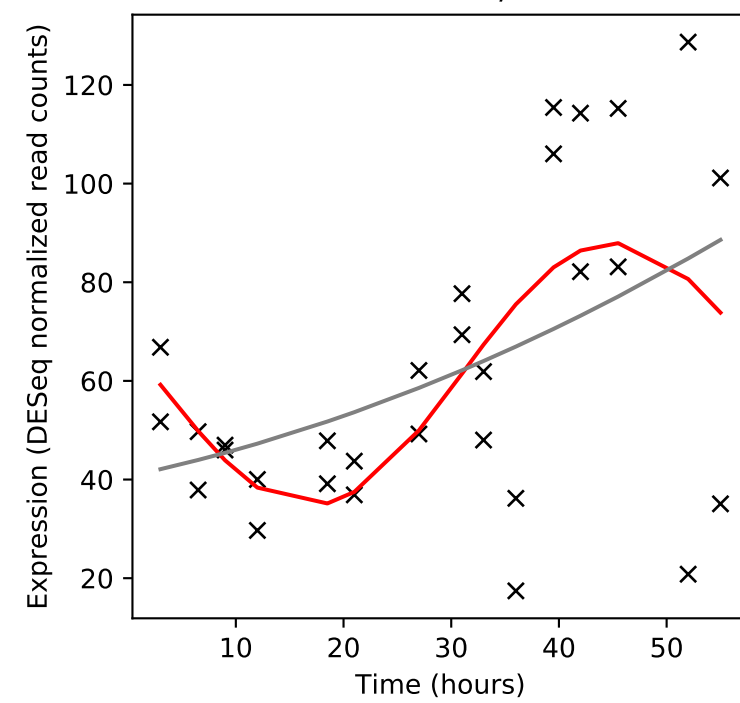
Rv2306A/-



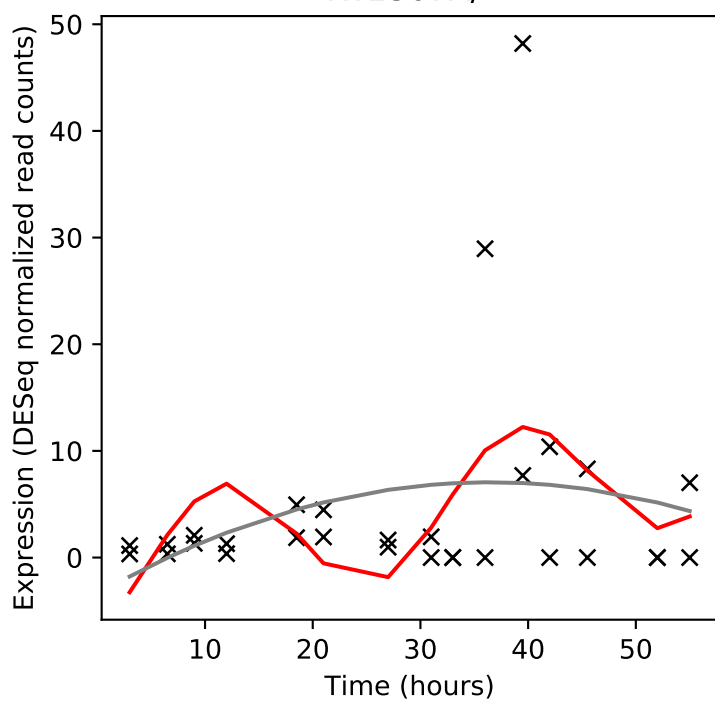
Rv2306B/-



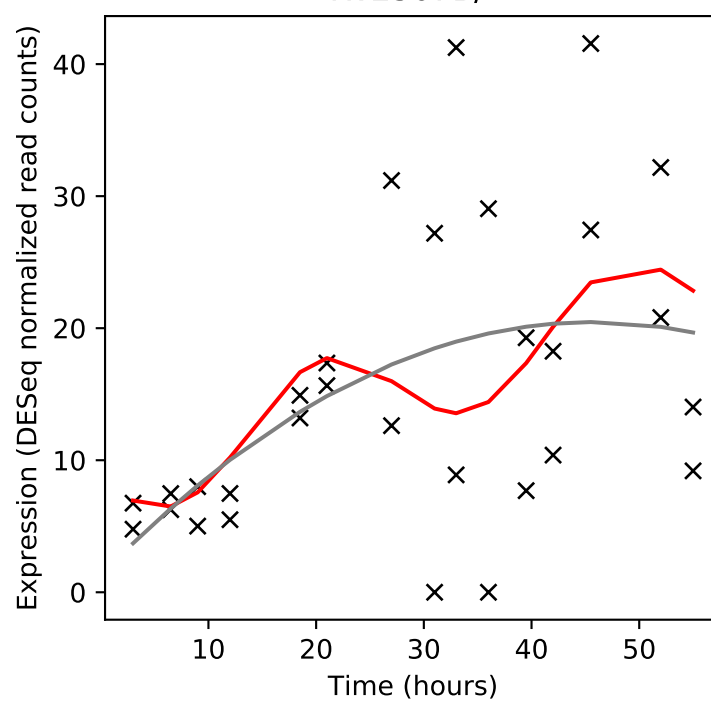
Rv2307c/-



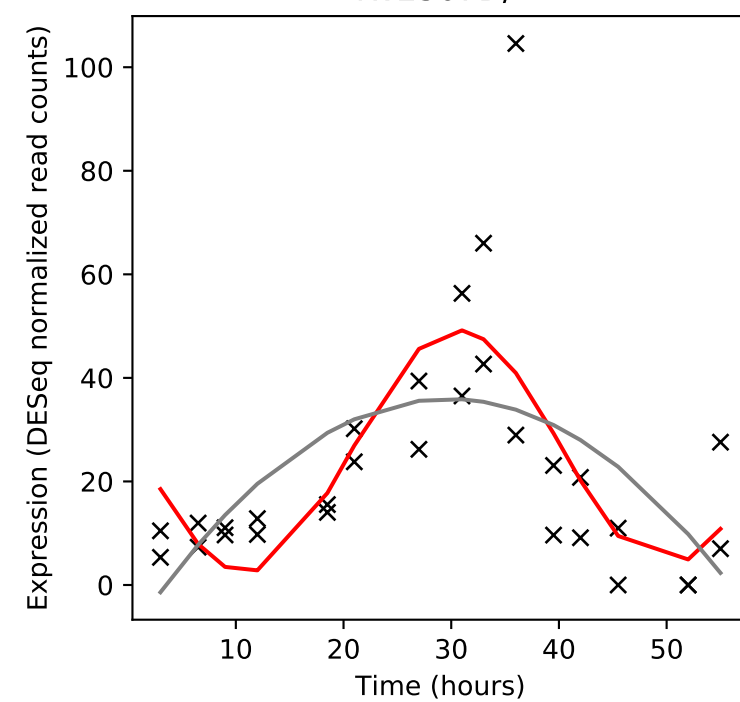
Rv2307A/-



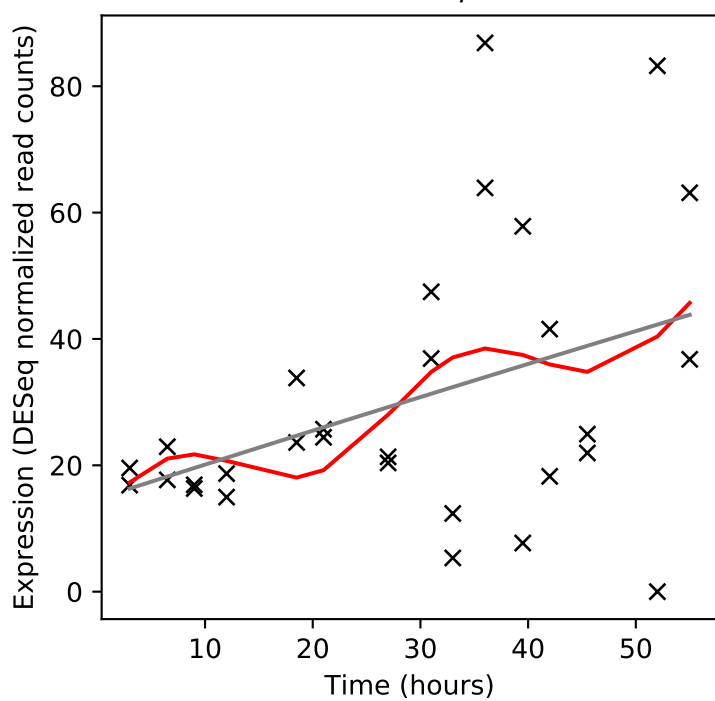
Rv2307B/-



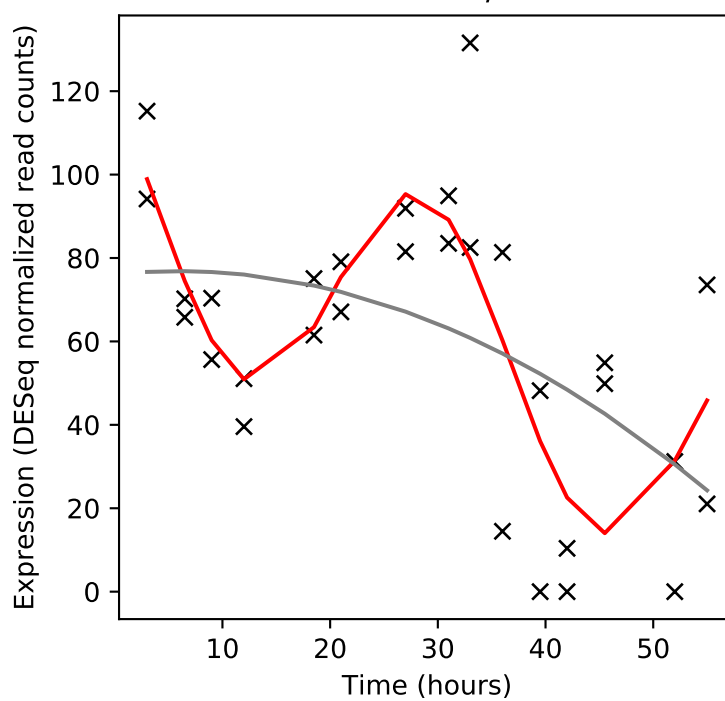
Rv2307D/-



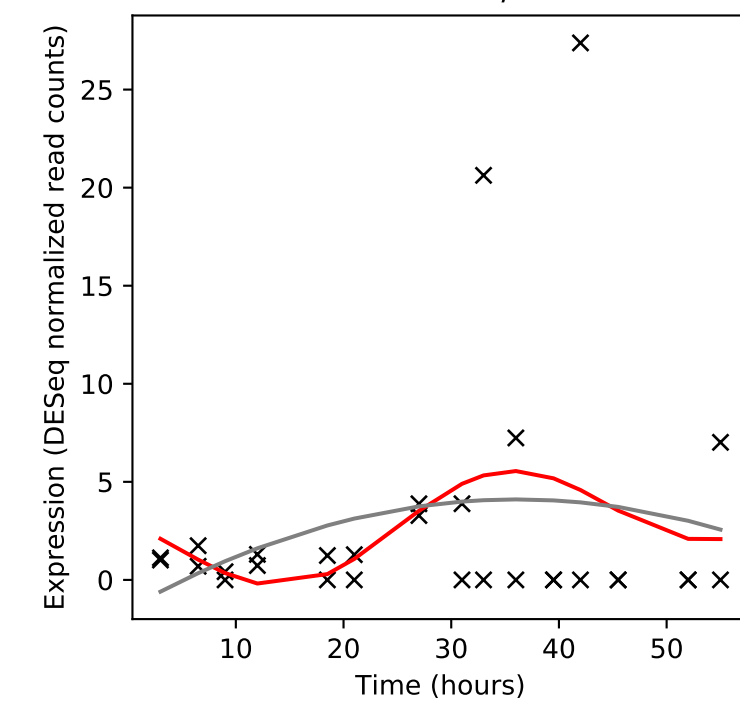
Rv2308/-



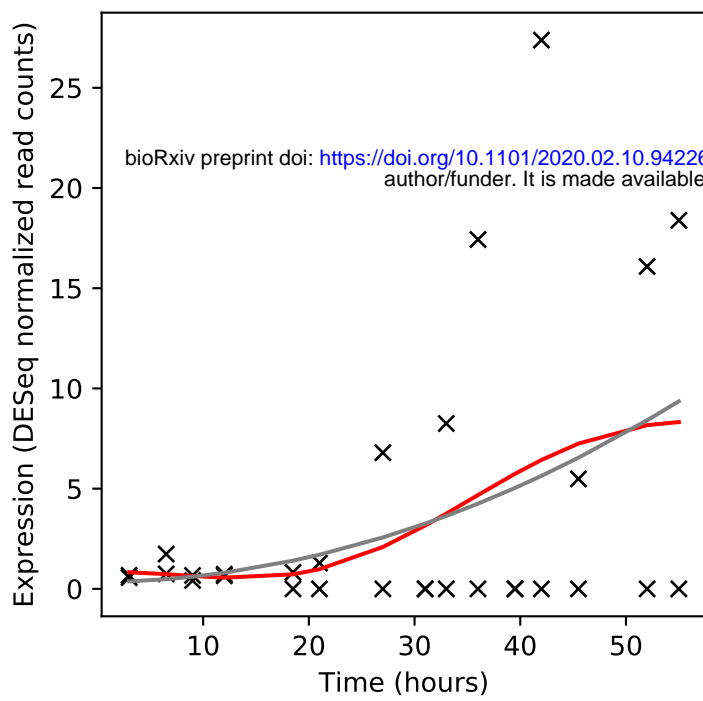
Rv2309c/-



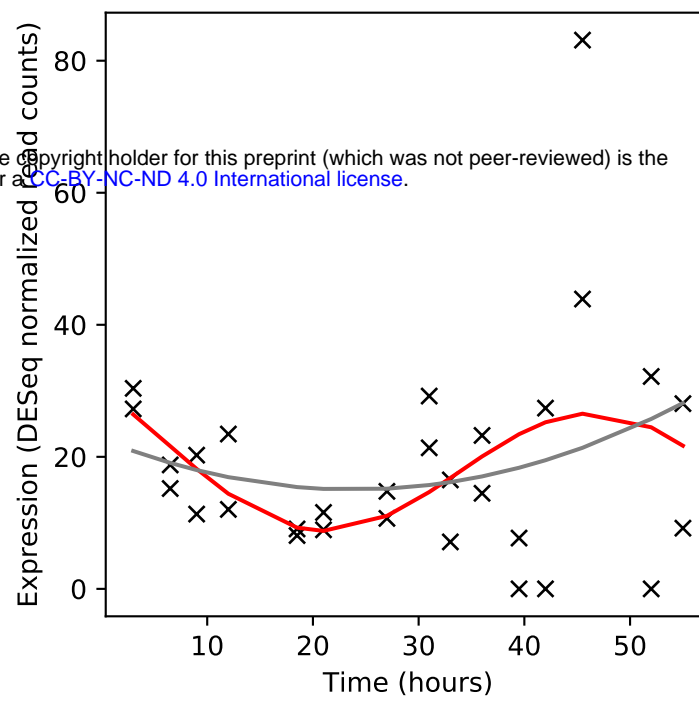
Rv2309A/-



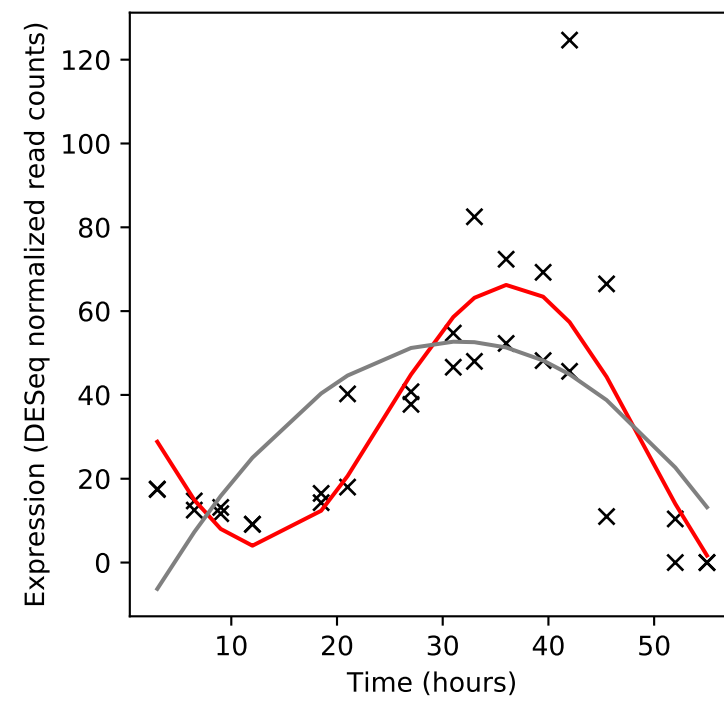
Rv2310/-



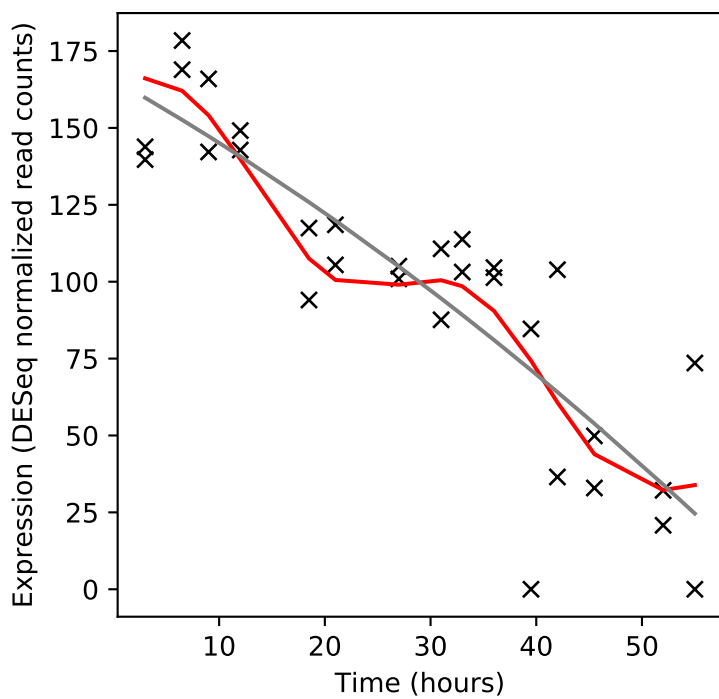
Rv2311/-



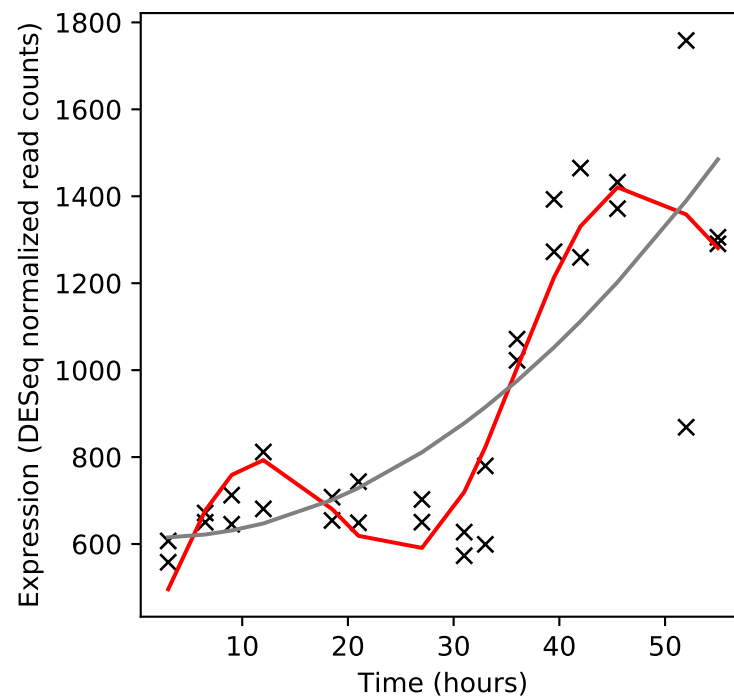
Rv2312/-



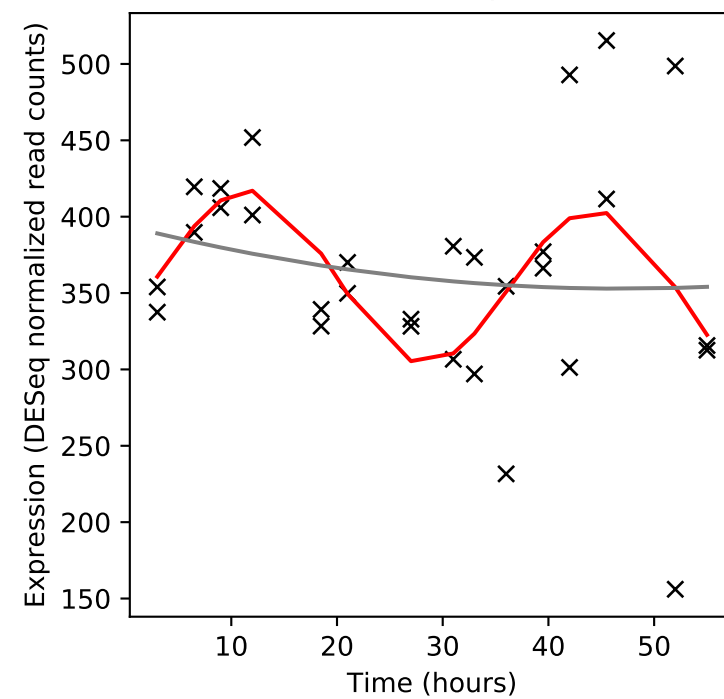
Rv2313c/-



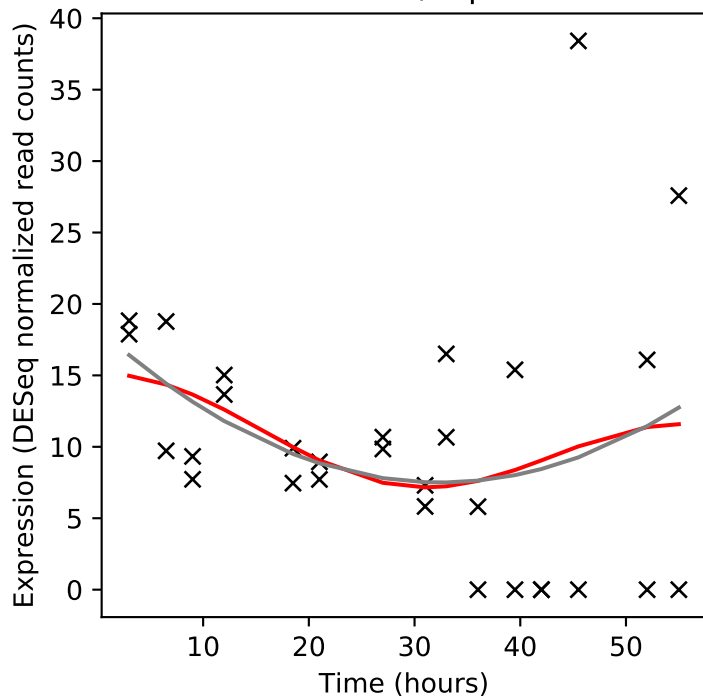
Rv2314c/-



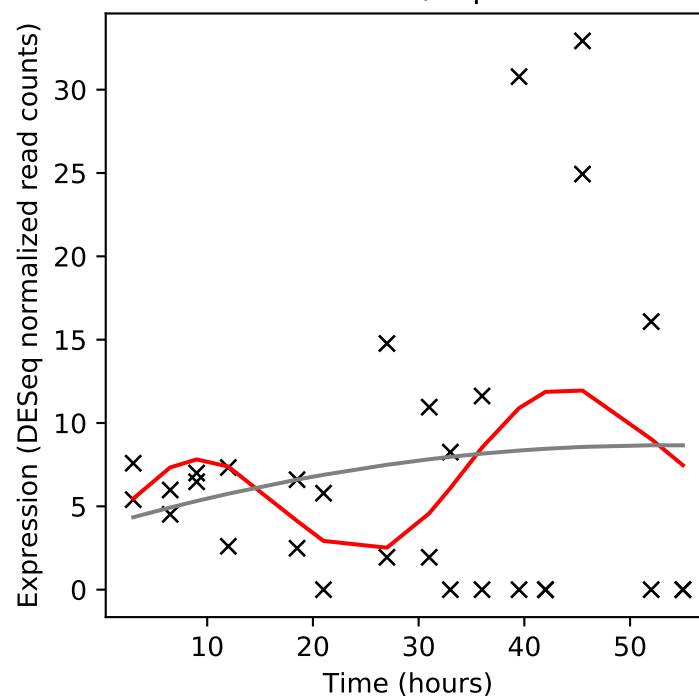
Rv2315c/-



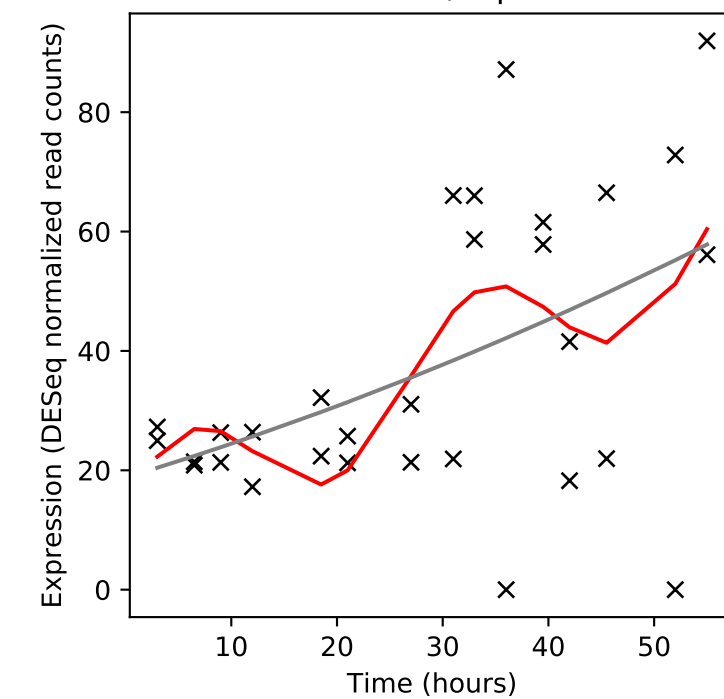
Rv2316/uspA



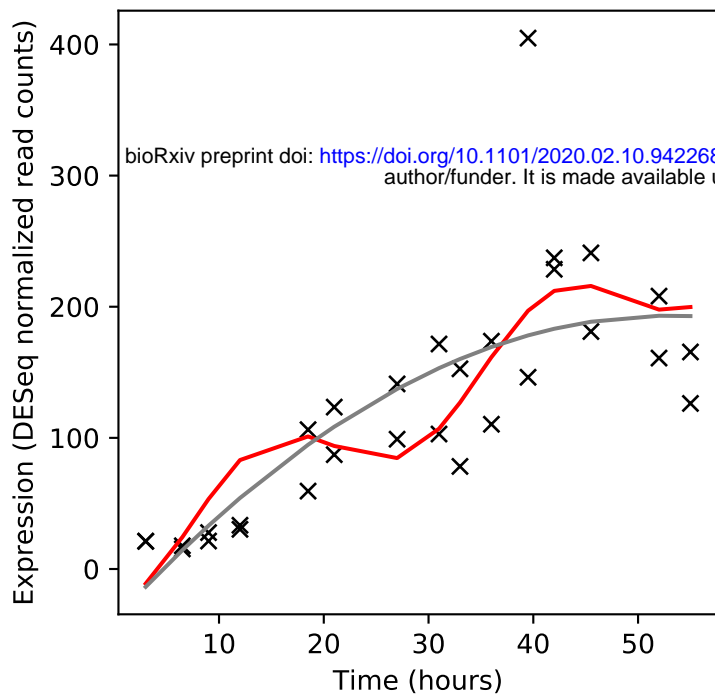
Rv2317/uspB



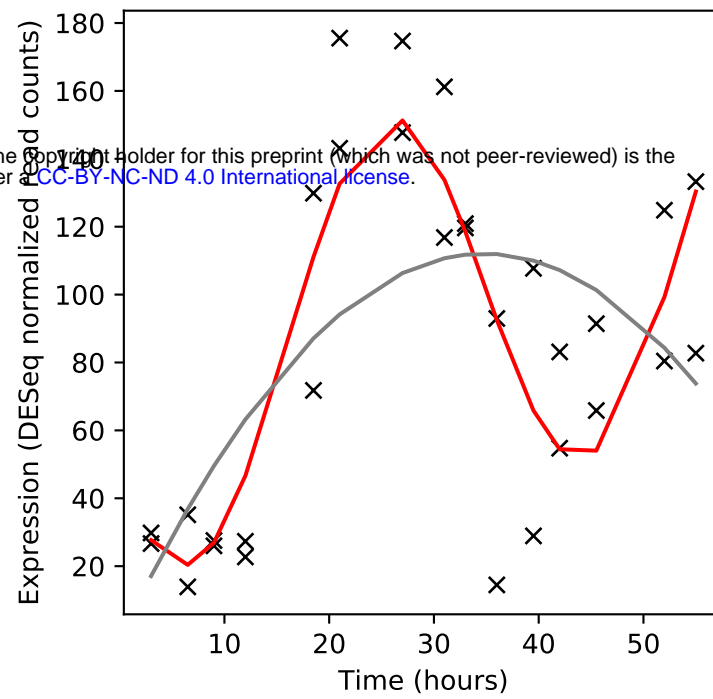
Rv2318/uspC



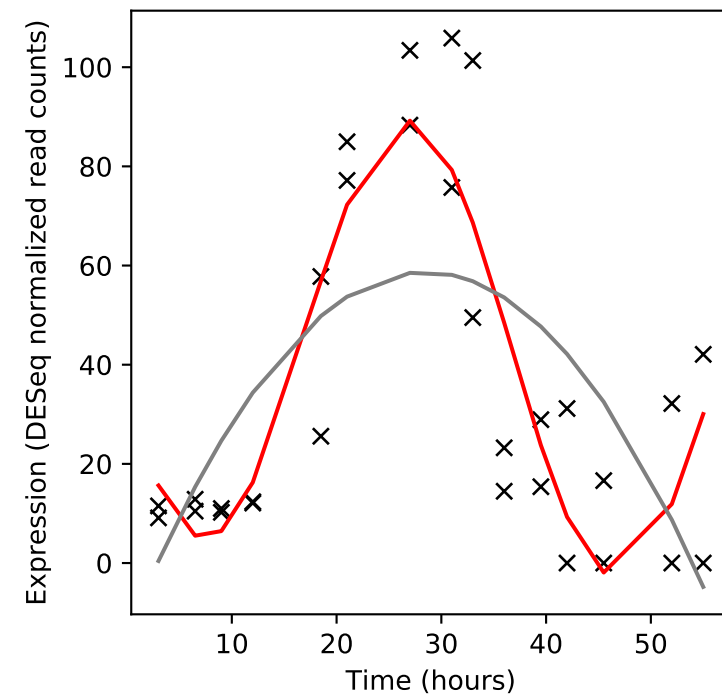
Rv2319c/-



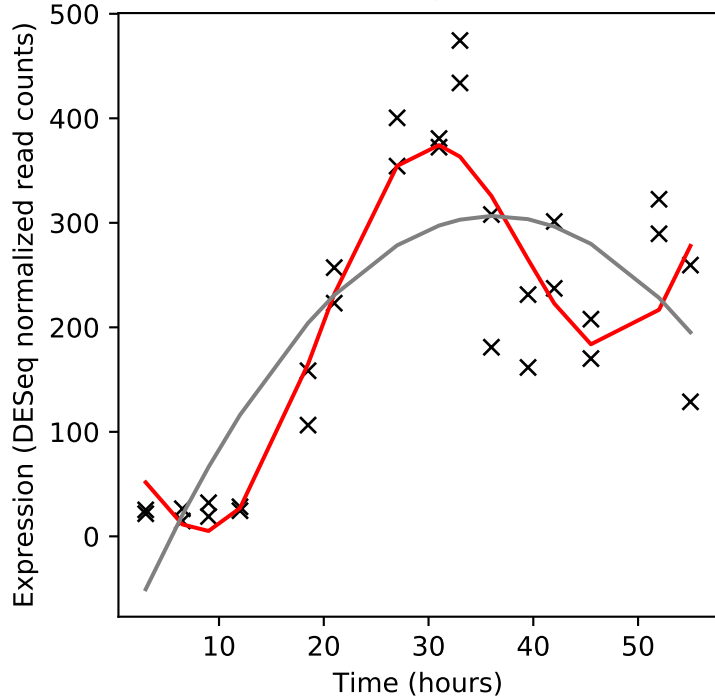
Rv2320c/rocE



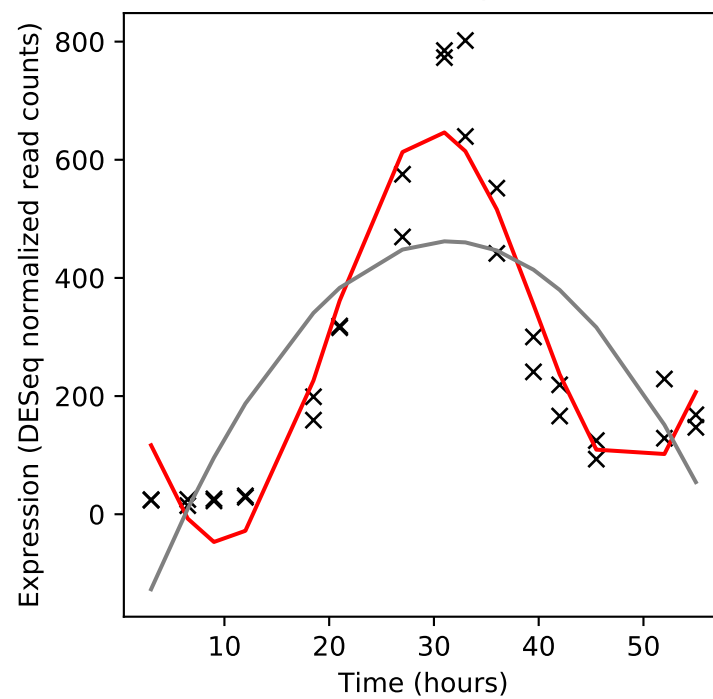
Rv2321c/rocD2



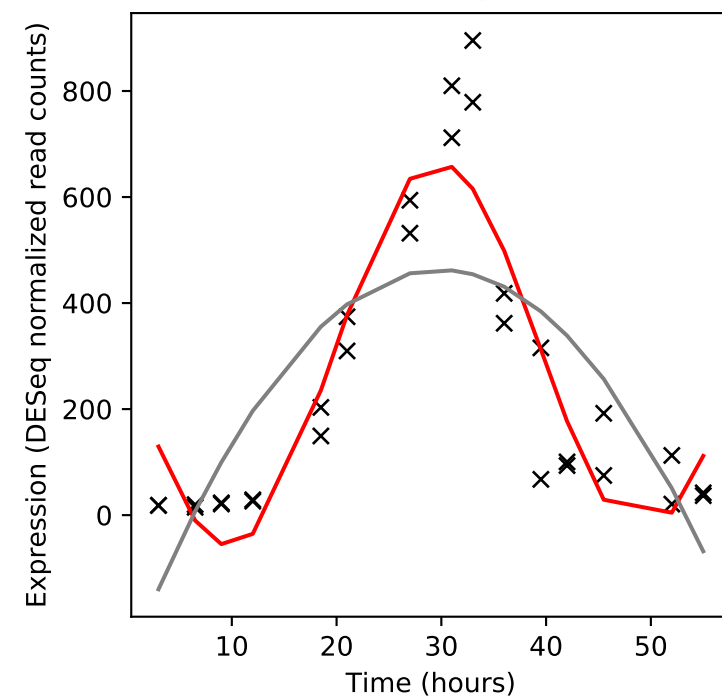
Rv2322c/rocD1



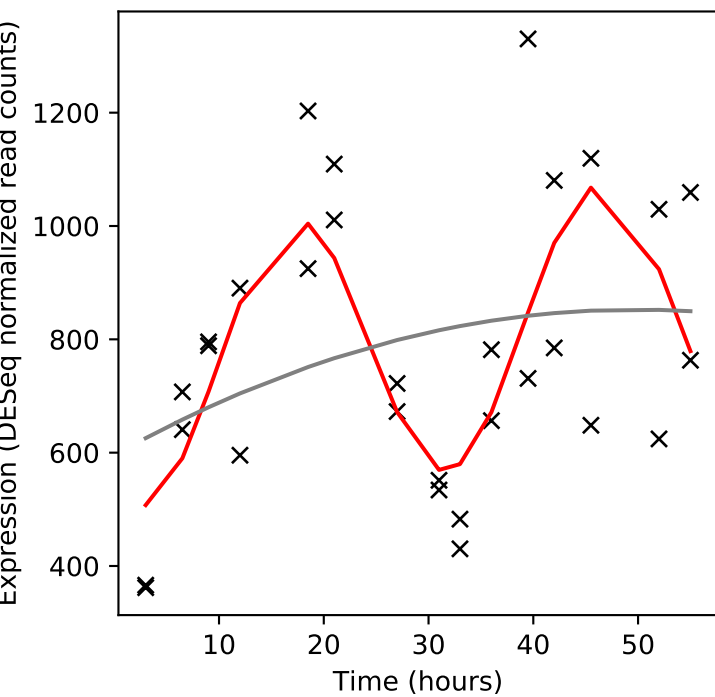
Rv2323c/-



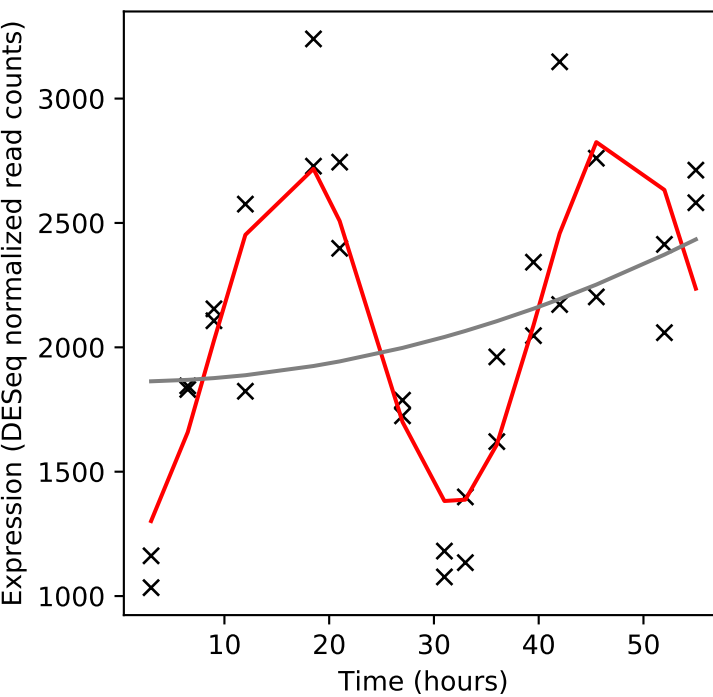
Rv2324/-



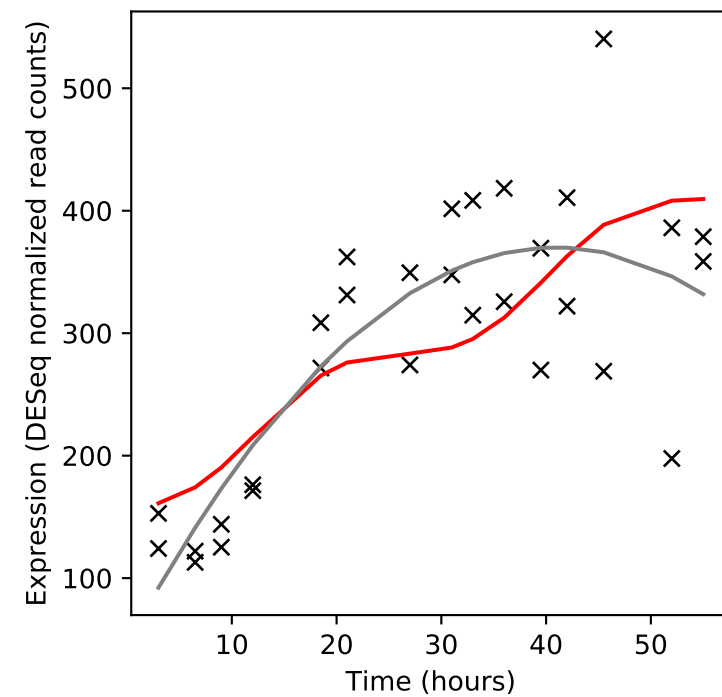
Rv2325c/-



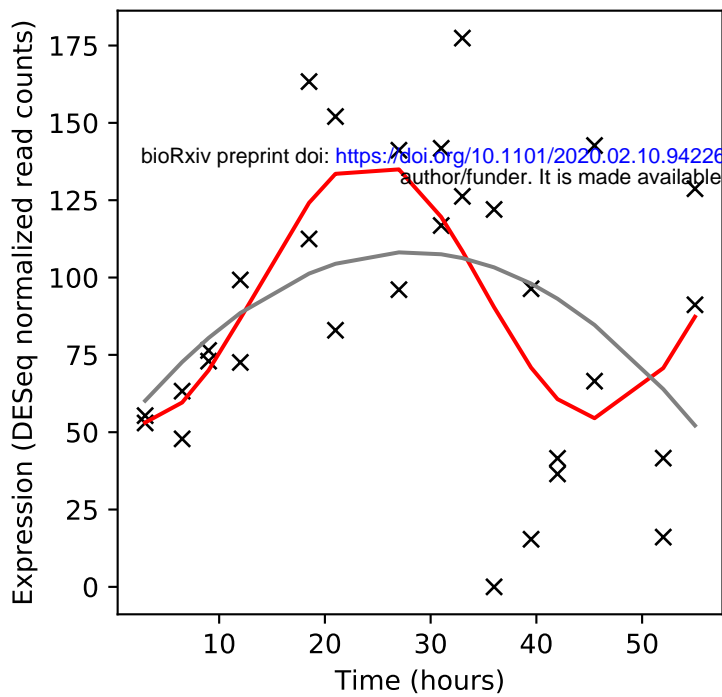
Rv2326c/-



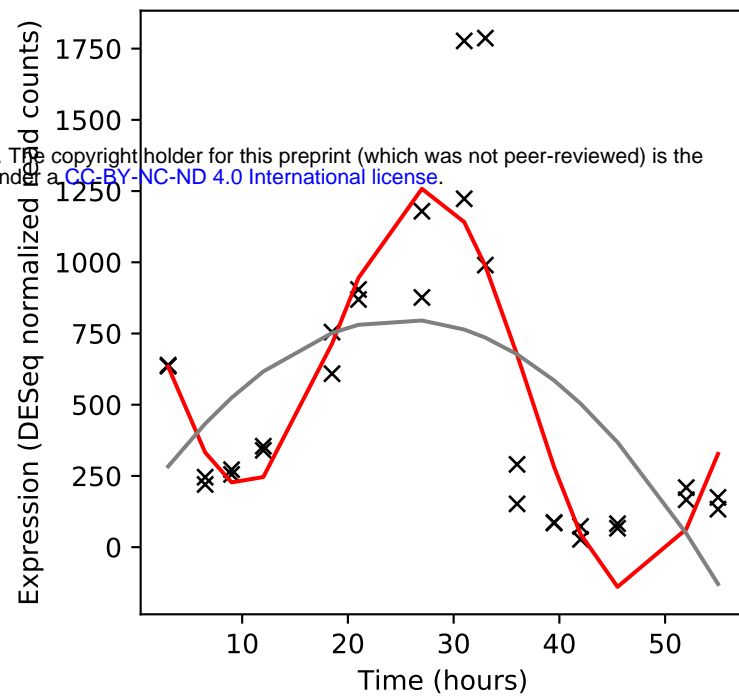
Rv2327/-



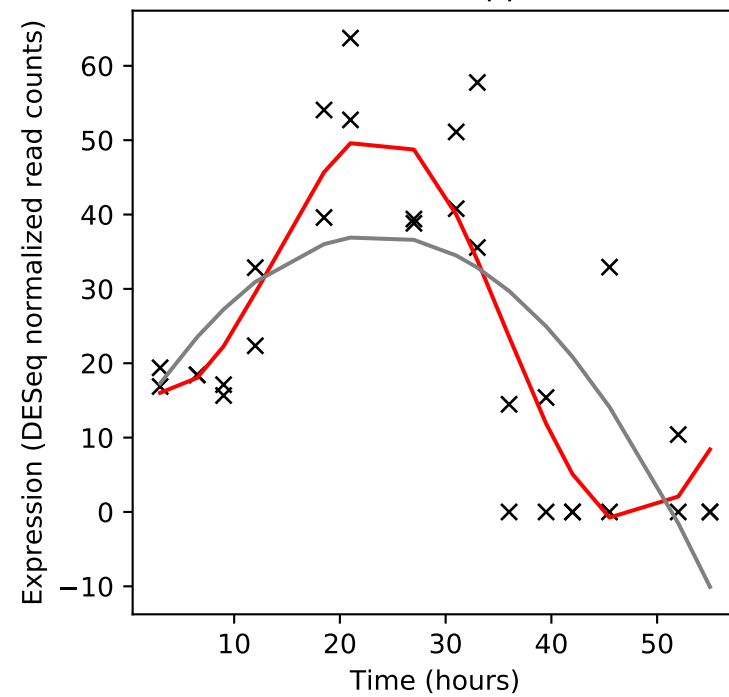
Rv2328/PE23



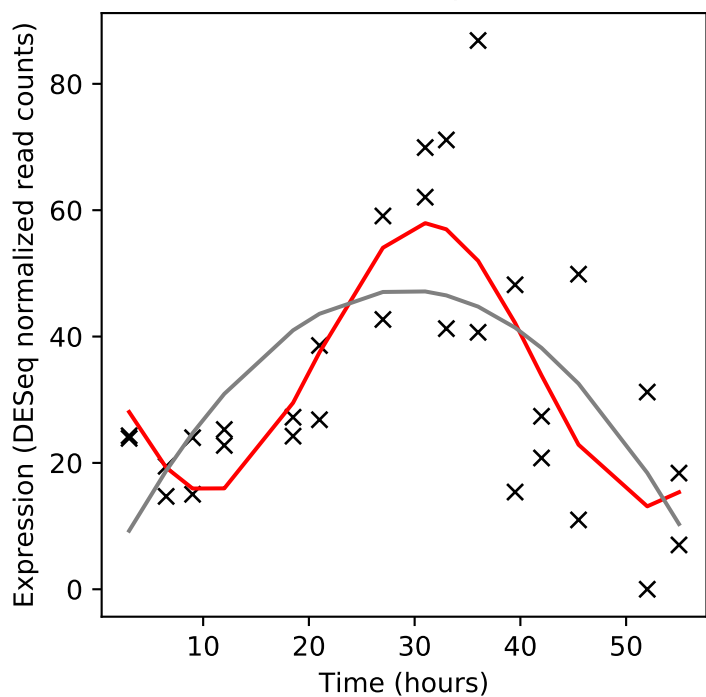
Rv2329c/narK1



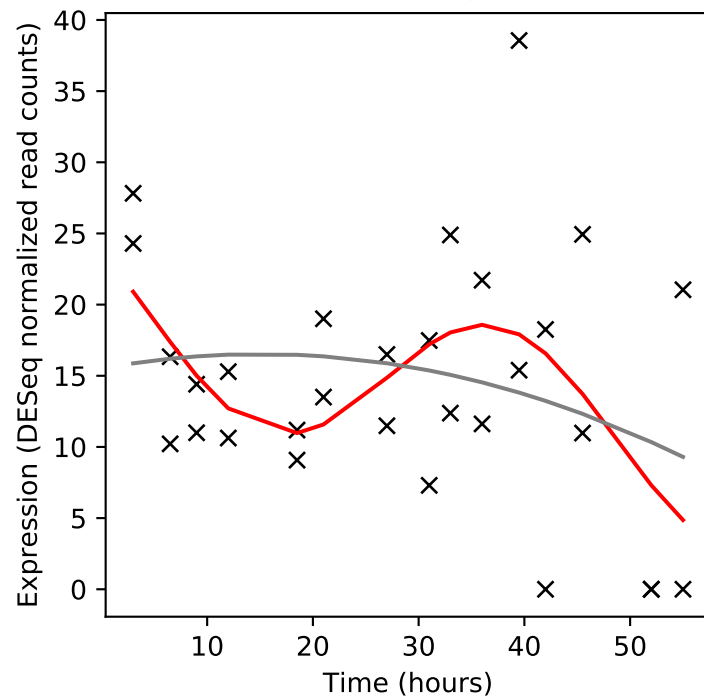
Rv2330c/lppP



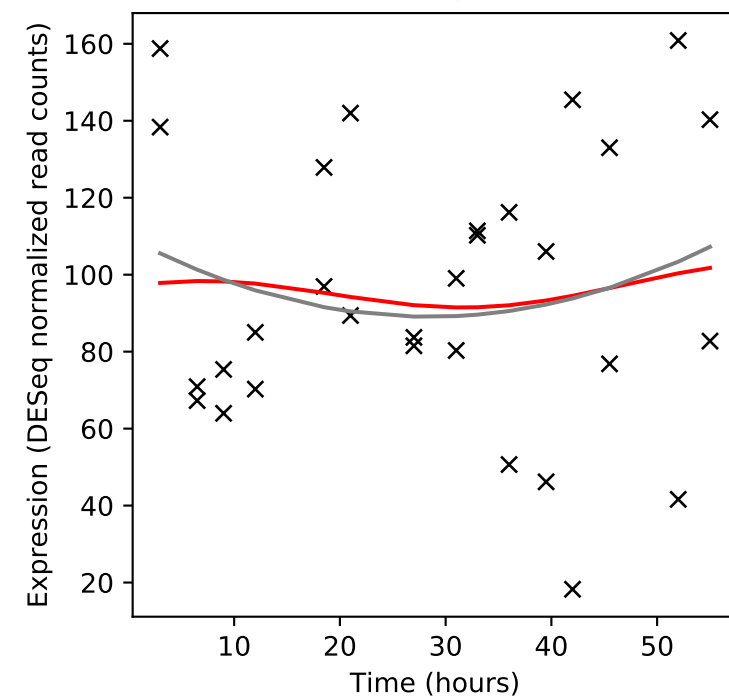
Rv2331/-



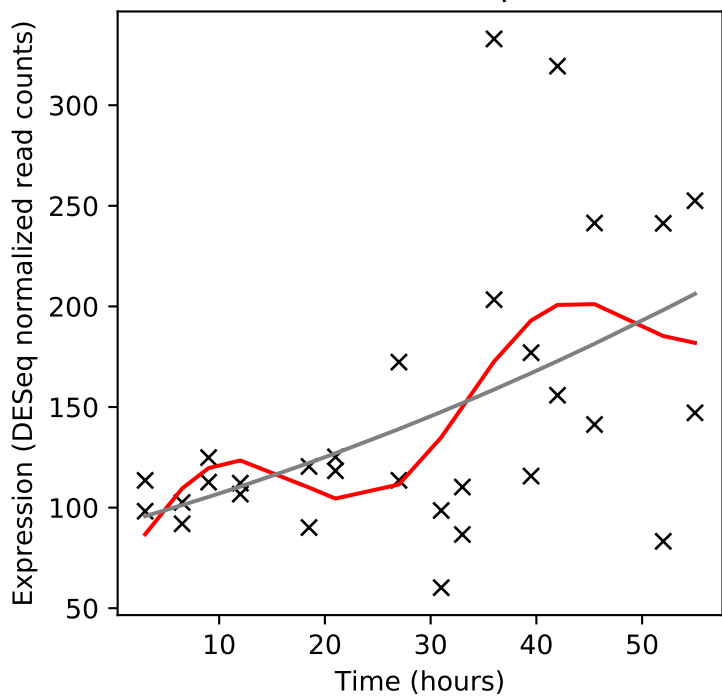
Rv2331A/-



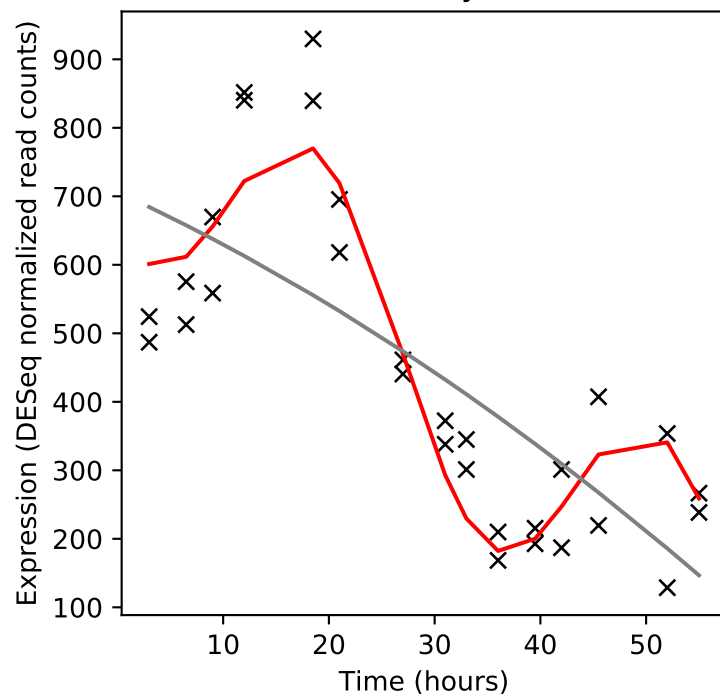
Rv2332/mez



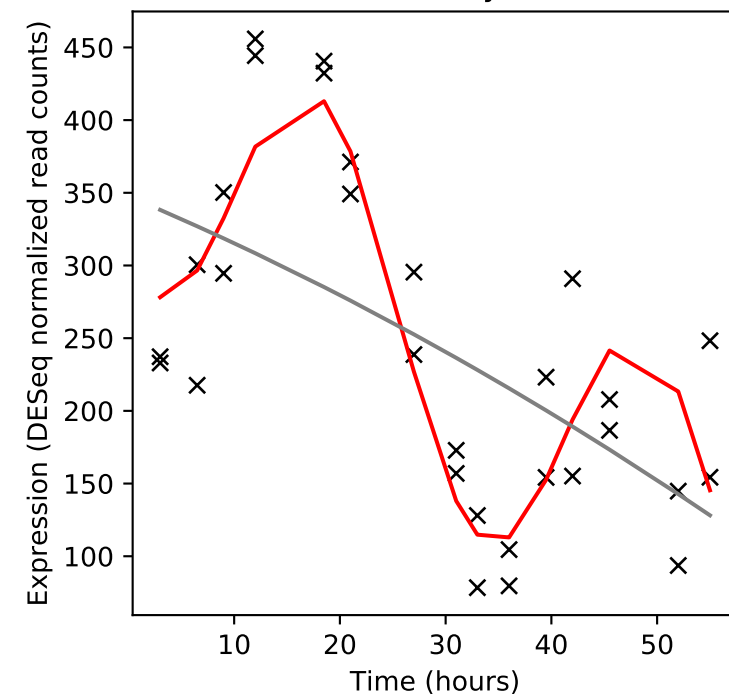
Rv2333c/stp



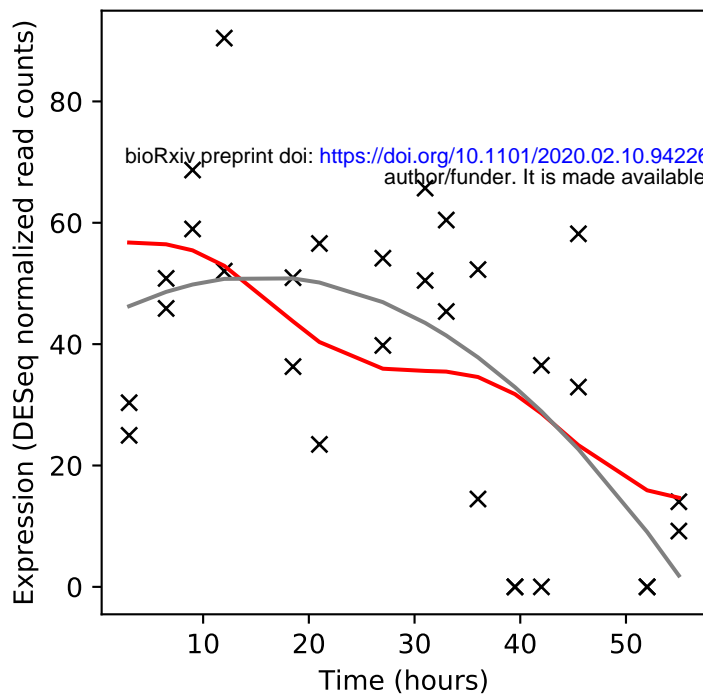
Rv2334/cysK1



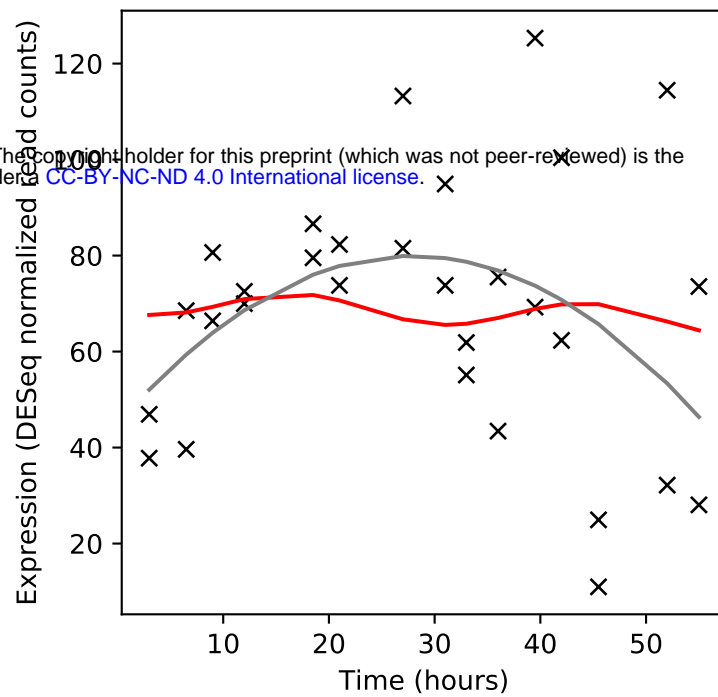
Rv2335/cysE



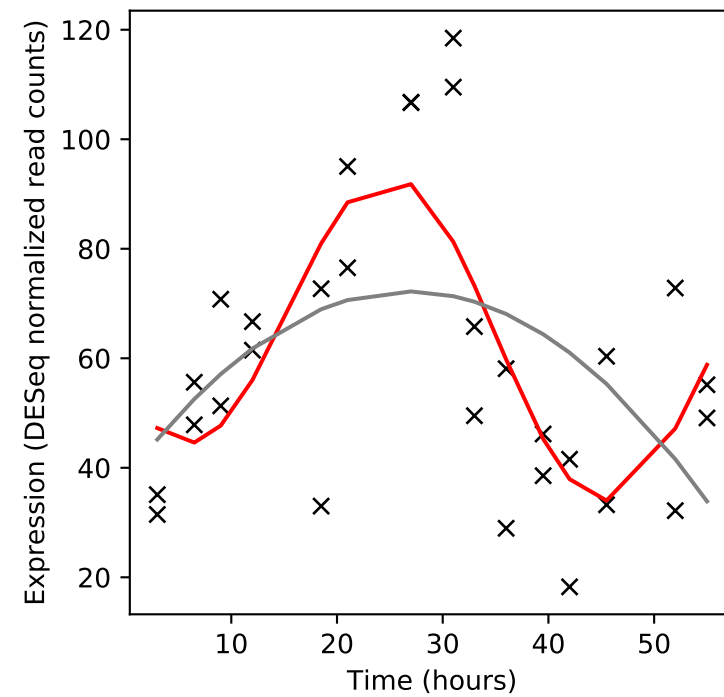
Rv2336/-



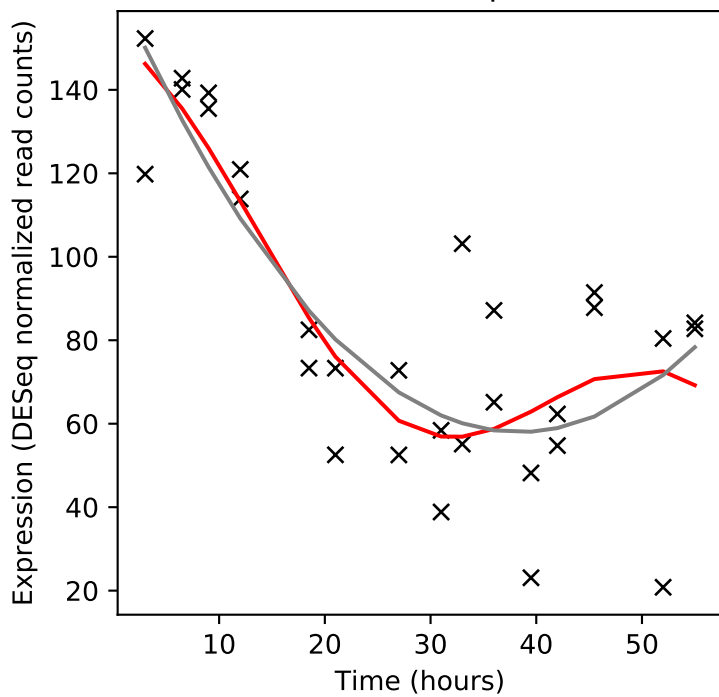
Rv2337c/-



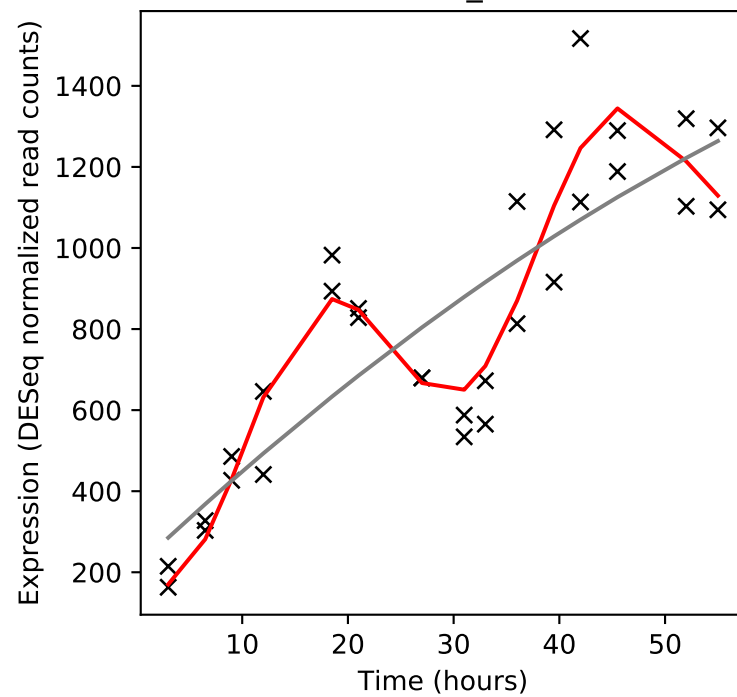
Rv2338c/moeW



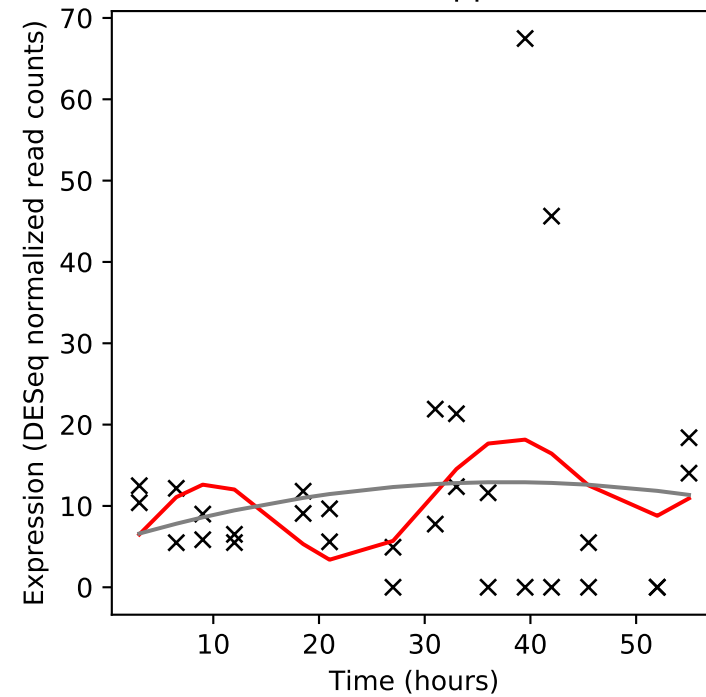
Rv2339/mmpL9



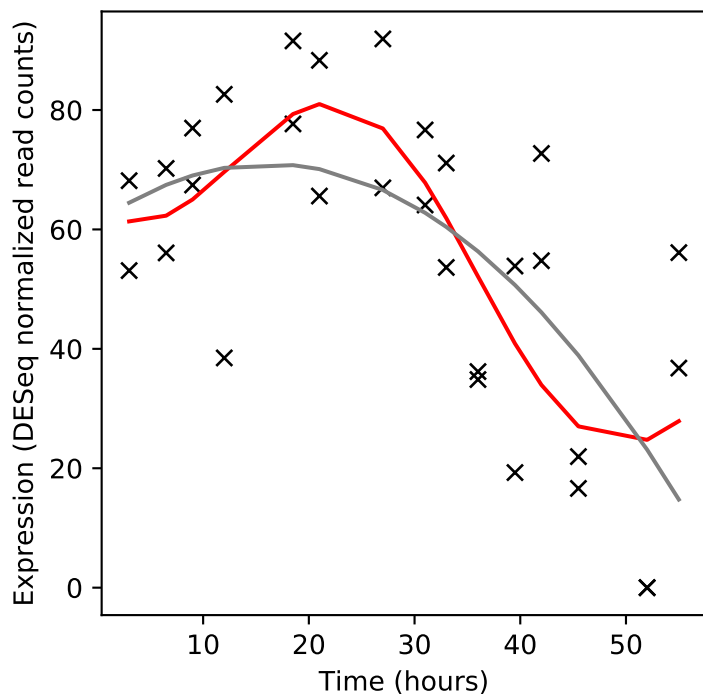
Rv2340c/PE_PGRS39



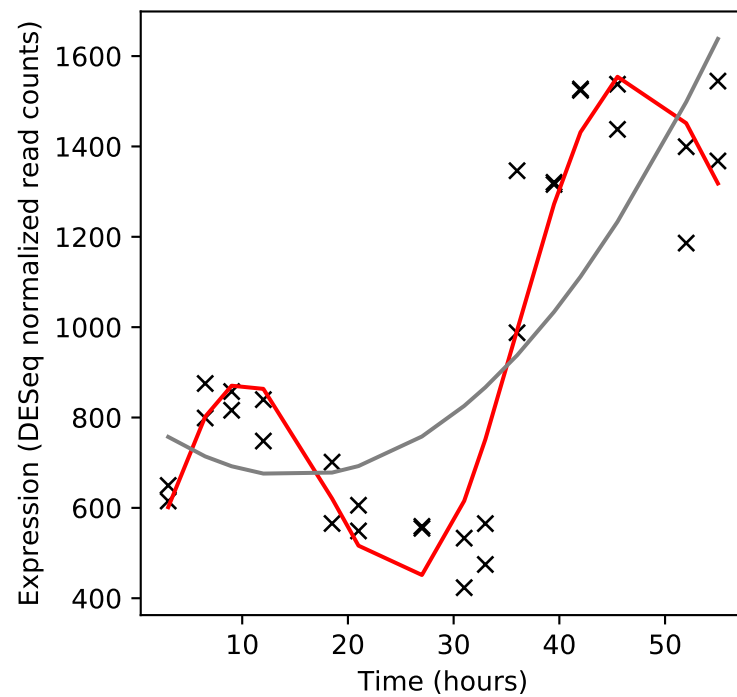
Rv2341/lppQ



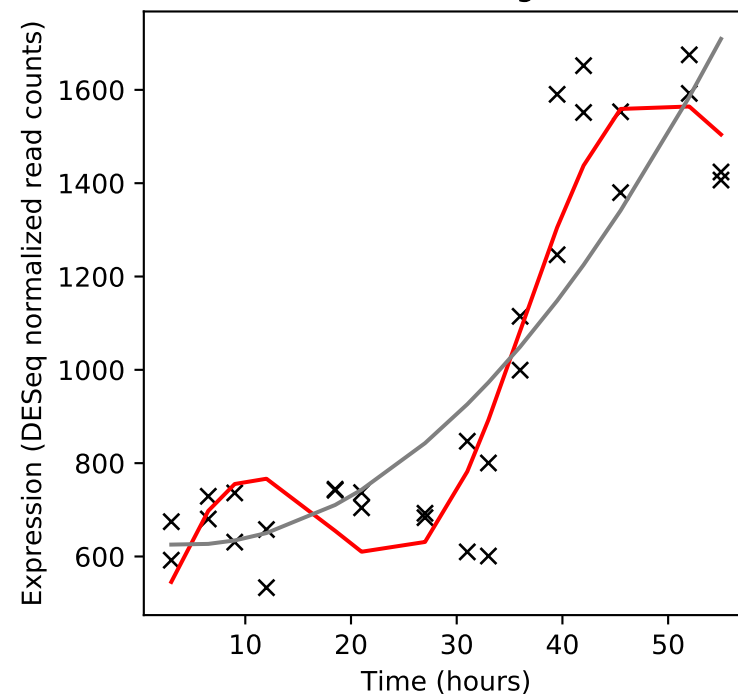
Rv2342/-



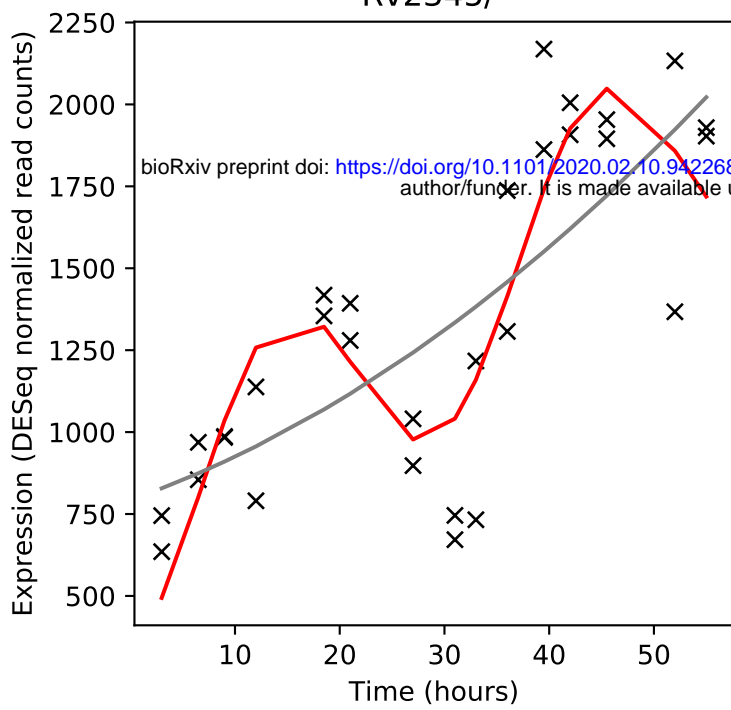
Rv2343c/dnaG



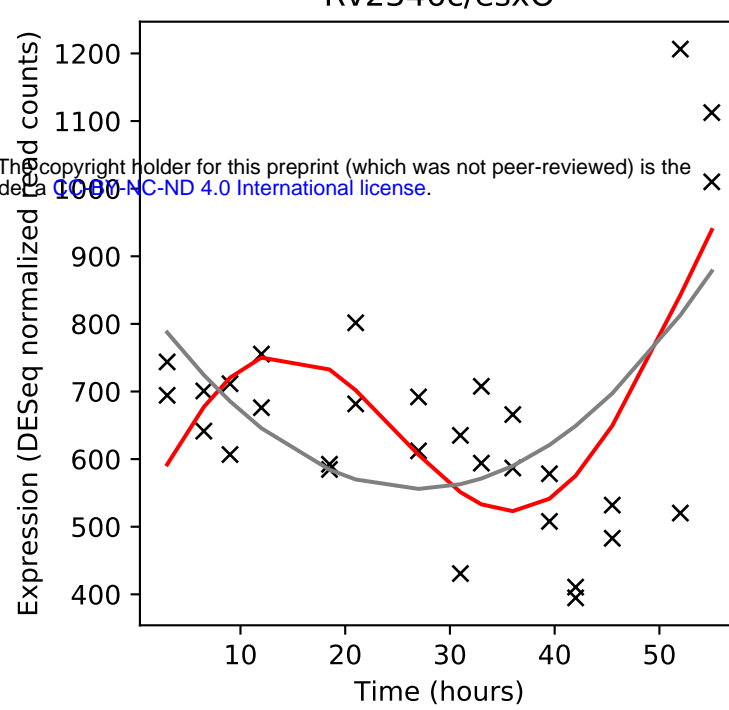
Rv2344c/dgt



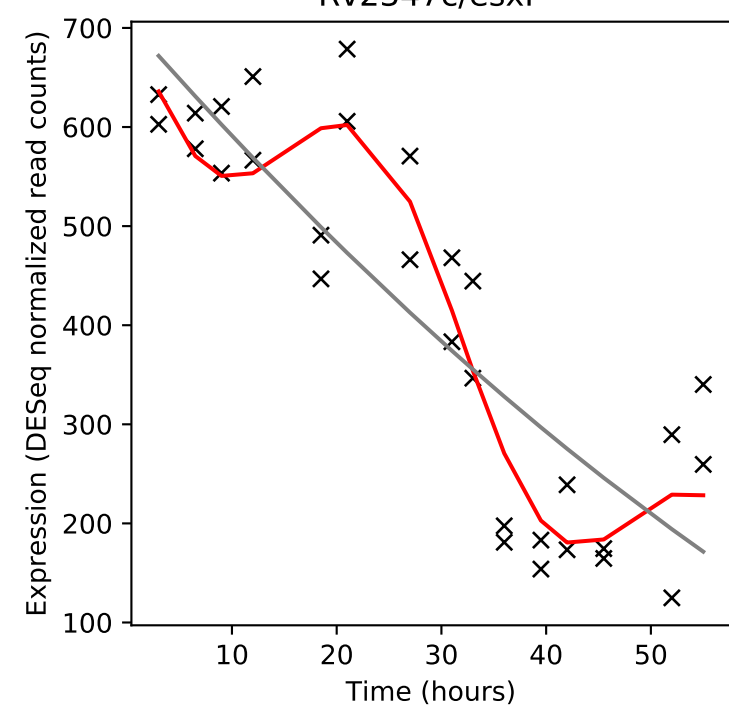
Rv2345/-



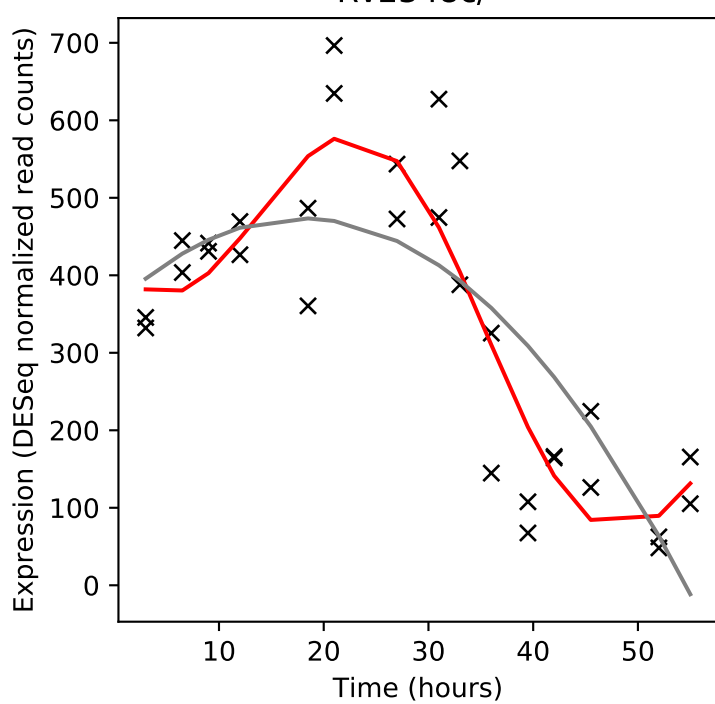
Rv2346c/esxO



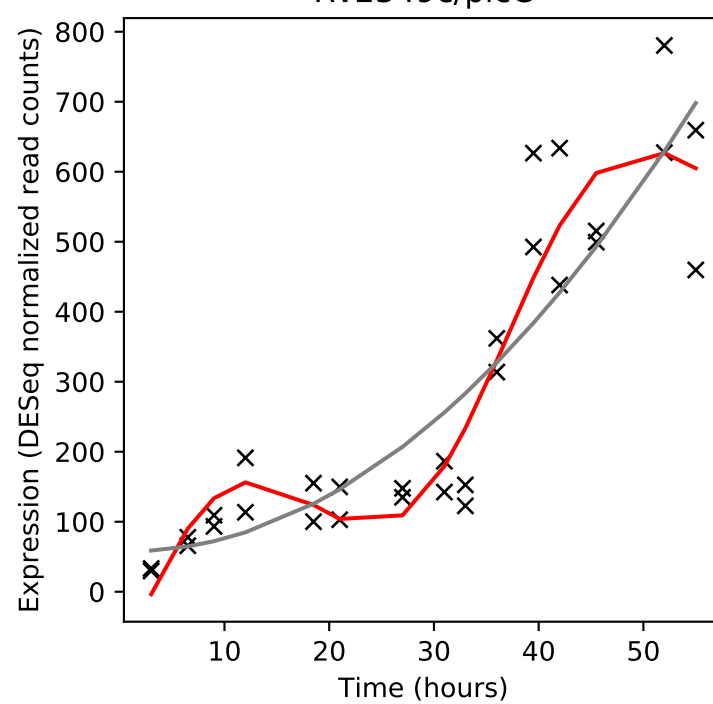
Rv2347c/esxP



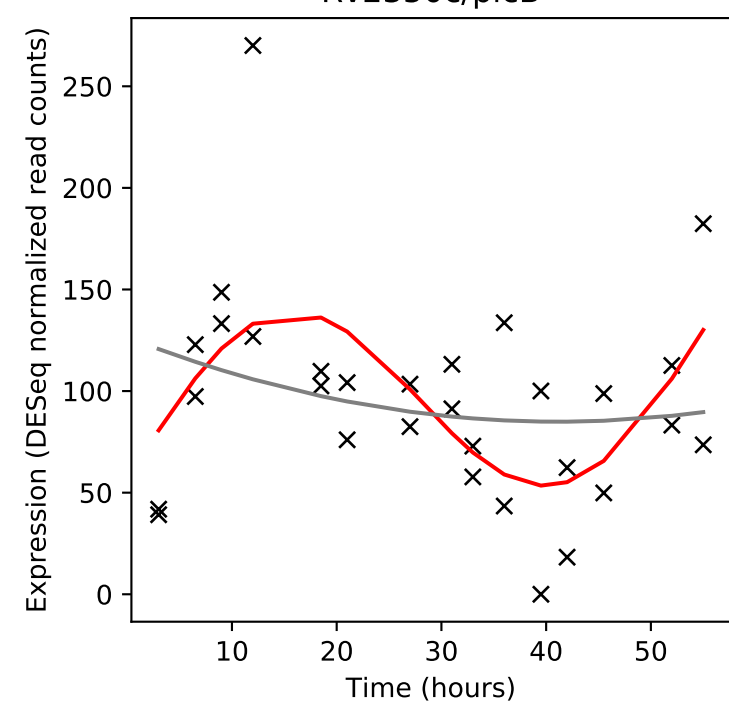
Rv2348c/-



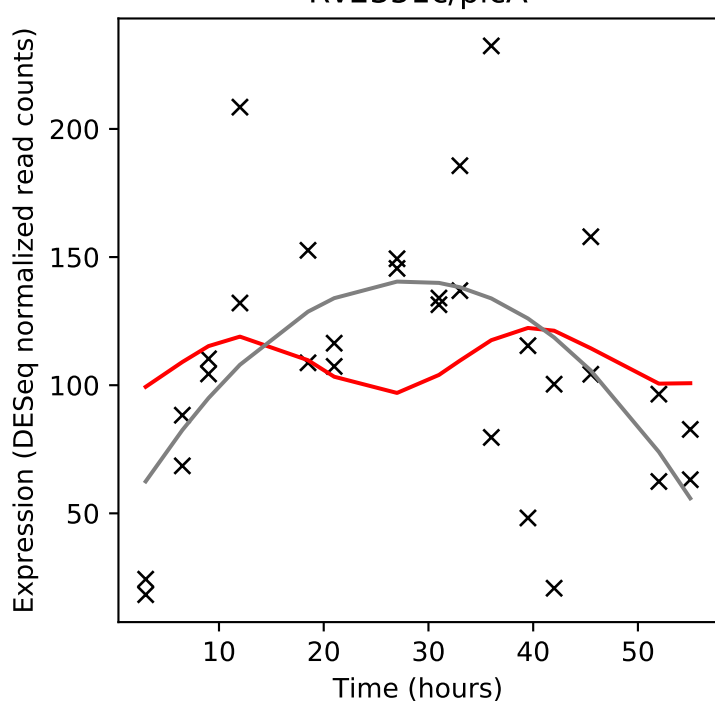
Rv2349c/plcC



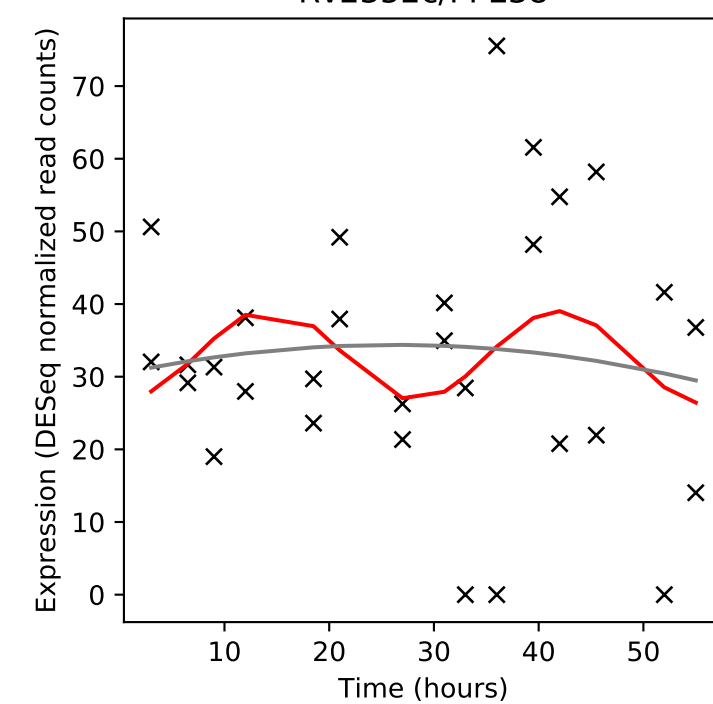
Rv2350c/plcB



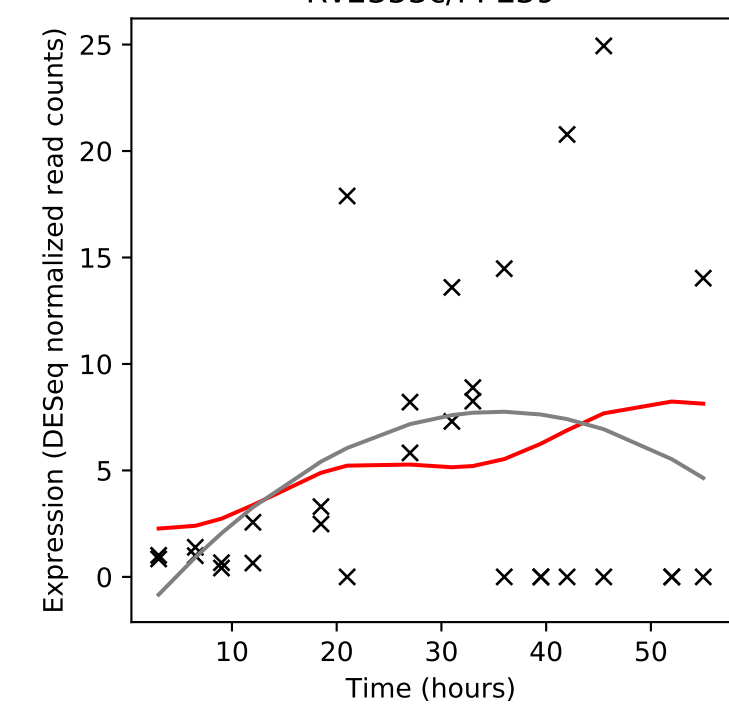
Rv2351c/plcA



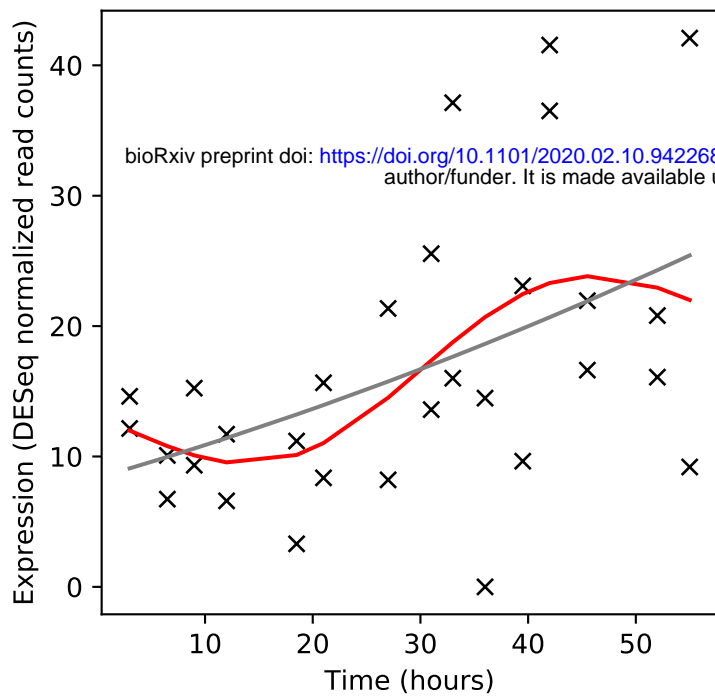
Rv2352c/PPE38



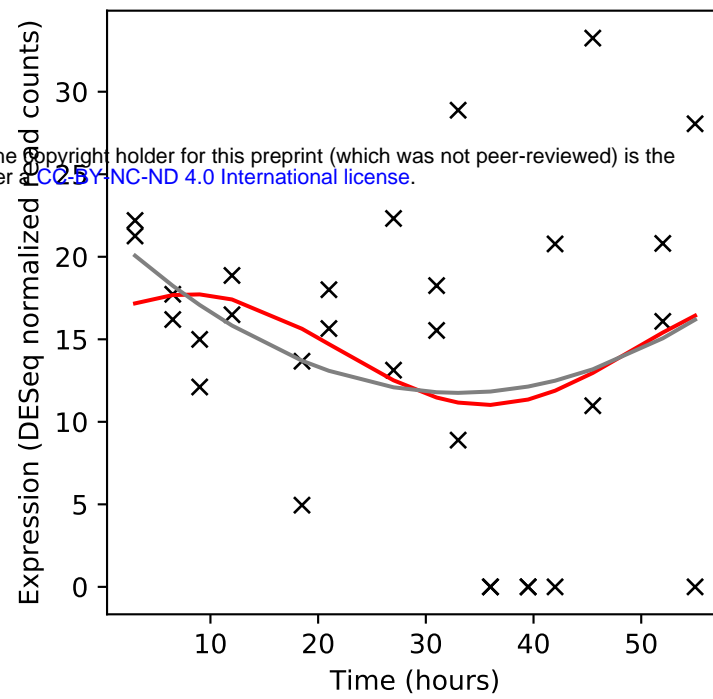
Rv2353c/PPE39



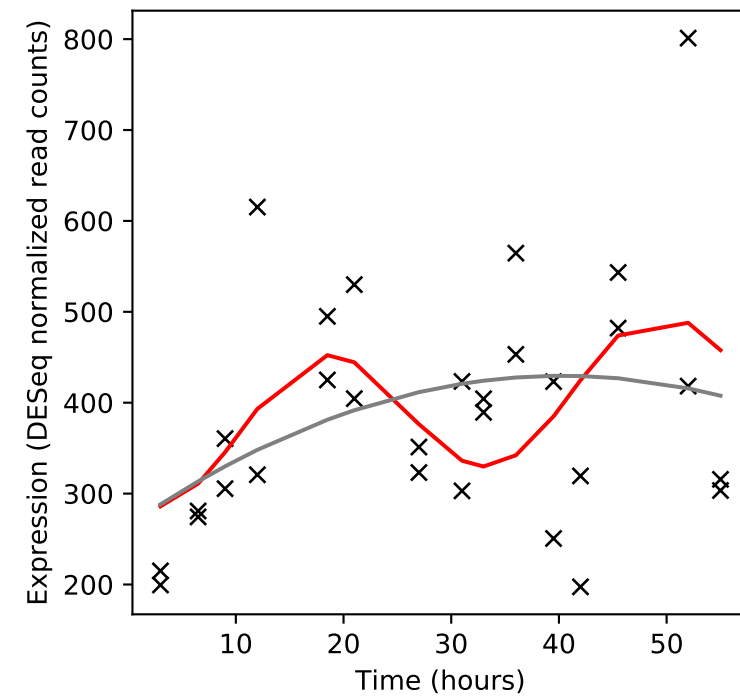
Rv2354/-



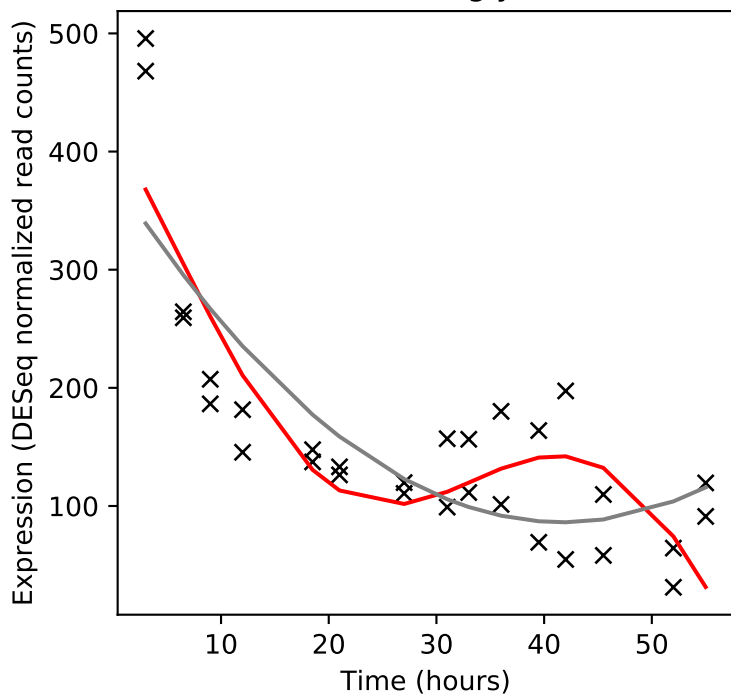
Rv2355/-



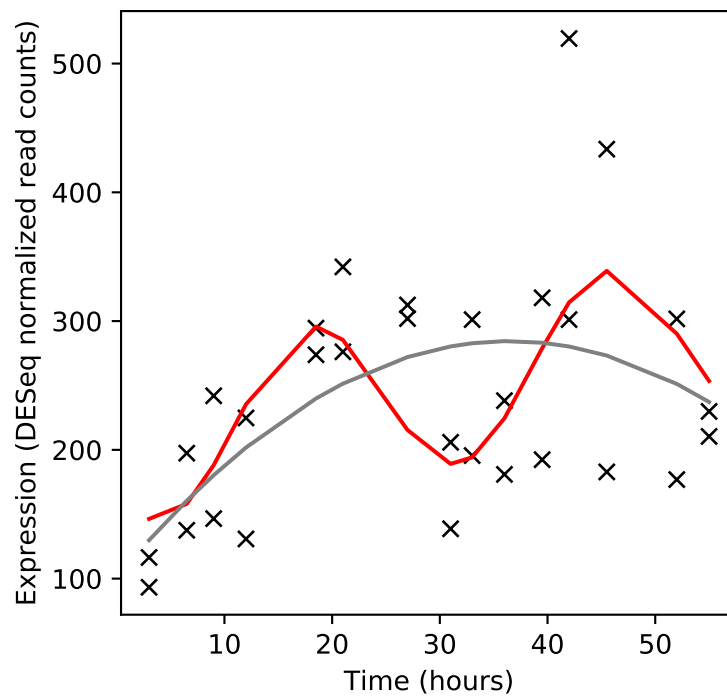
Rv2356c/PPE40



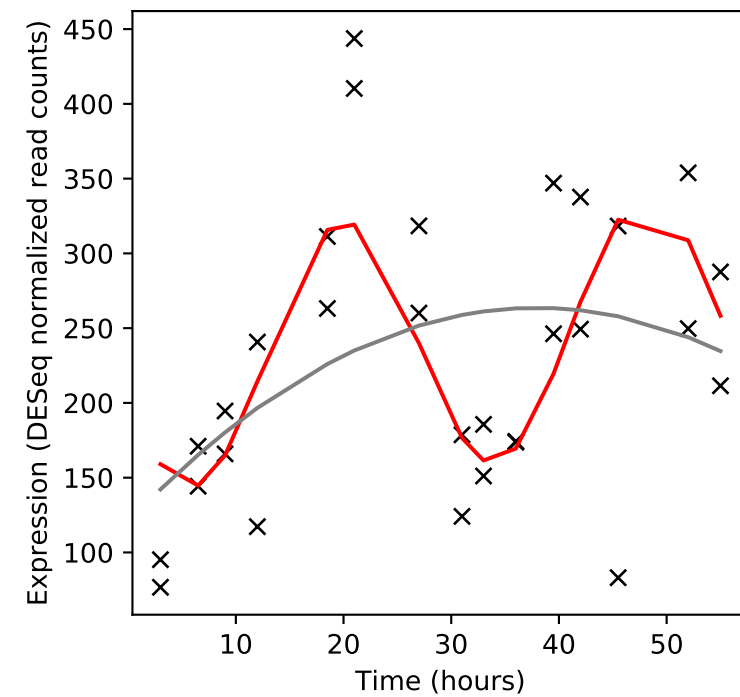
Rv2357c/glyS



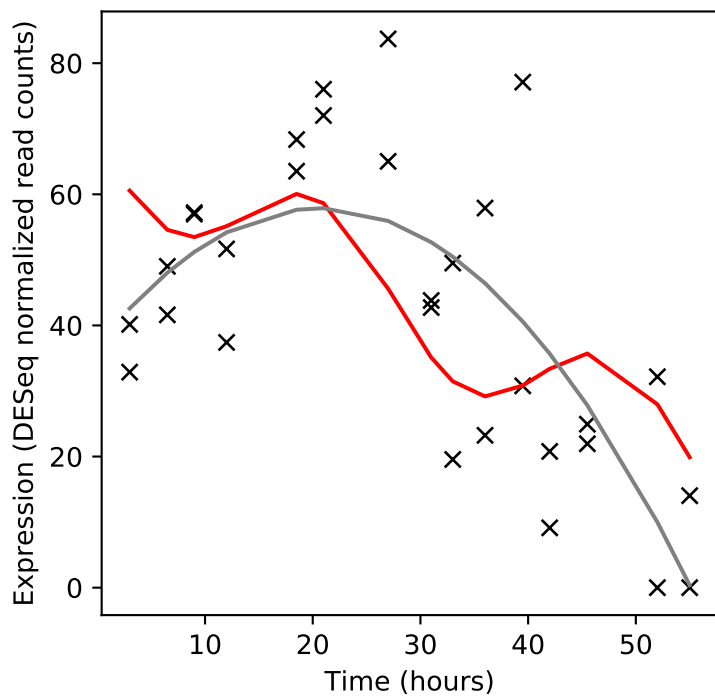
Rv2358/smtB



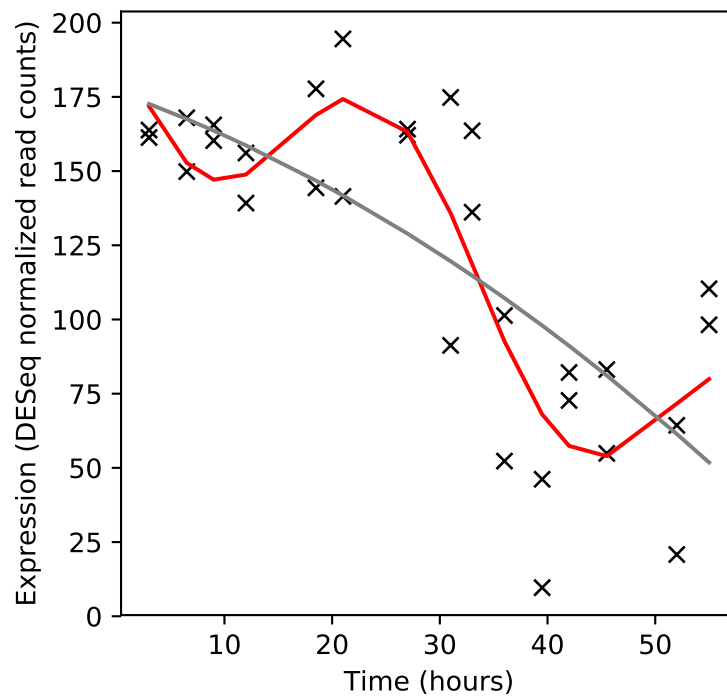
Rv2359/zur



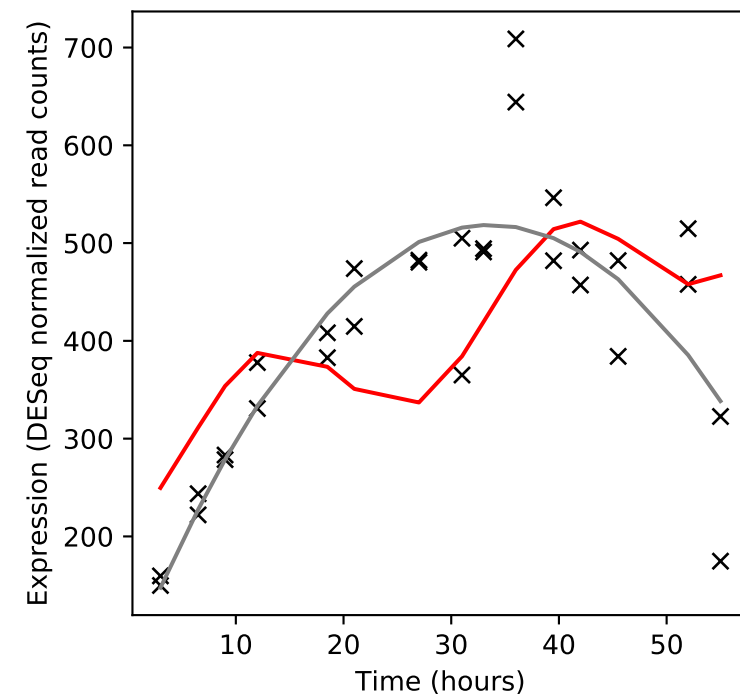
Rv2360c/-



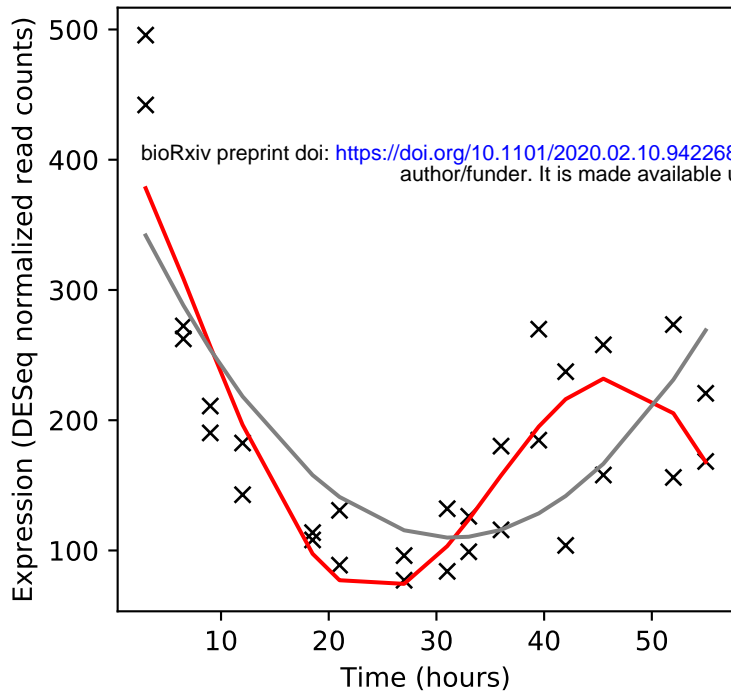
Rv2361c/-



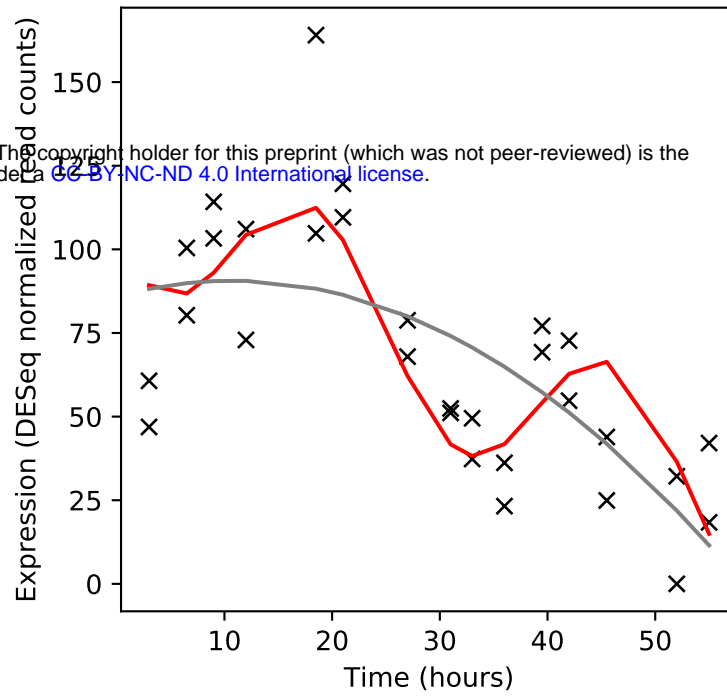
Rv2362c/recO



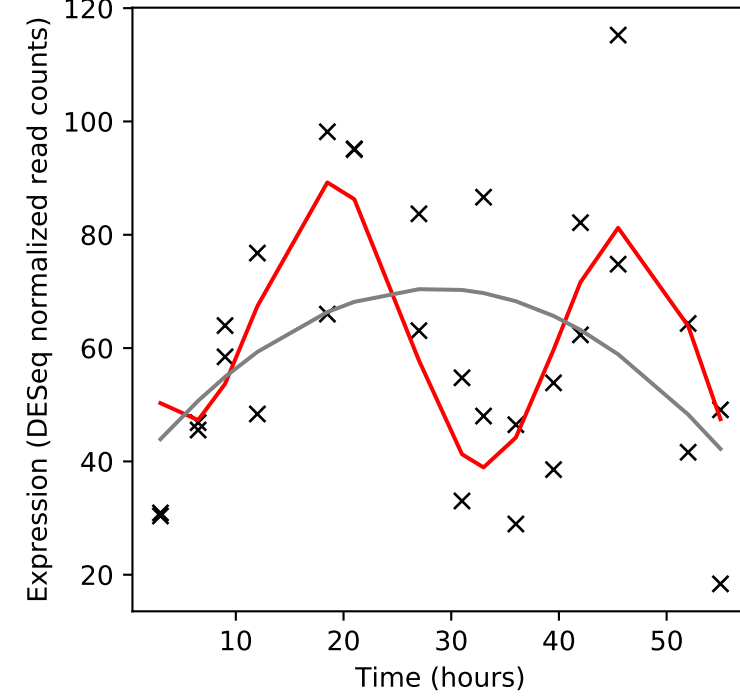
Rv2363/amiA2



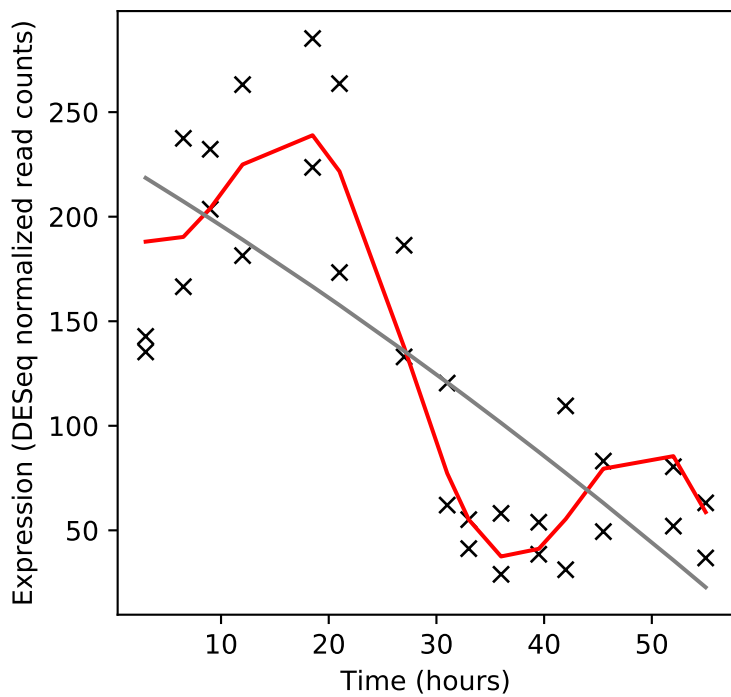
Rv2364c/era



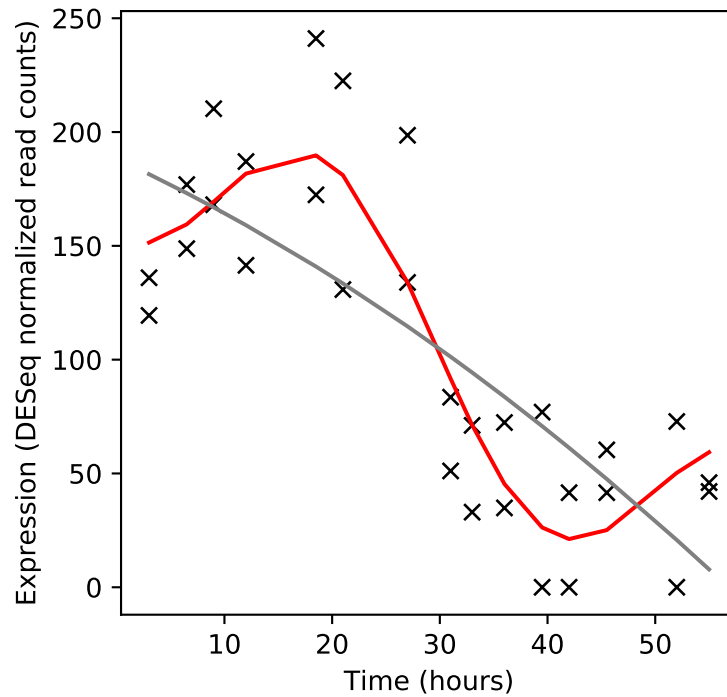
Rv2365c/-



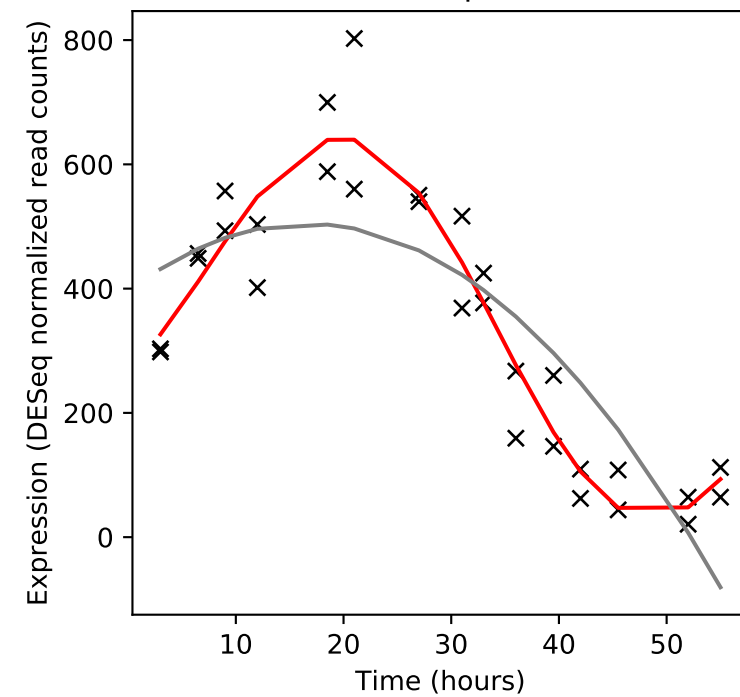
Rv2366c/-



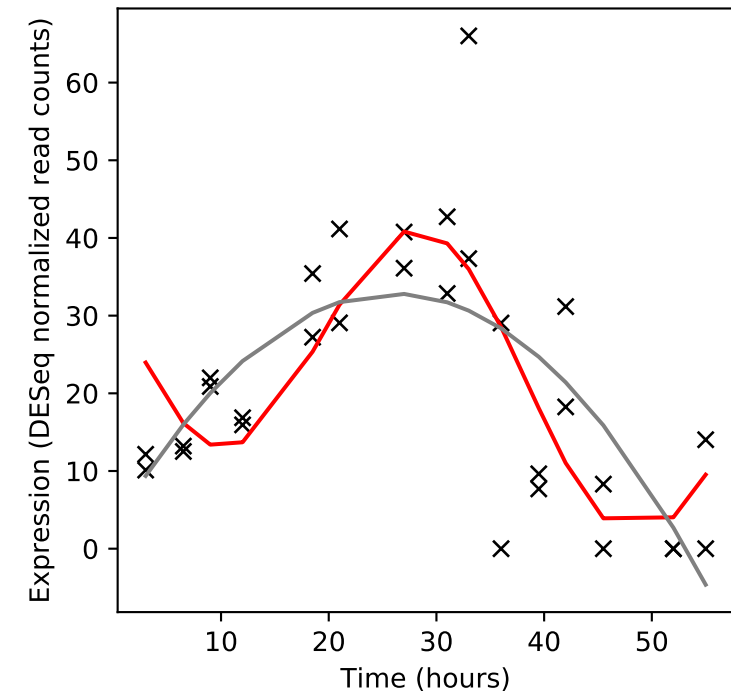
Rv2367c/-



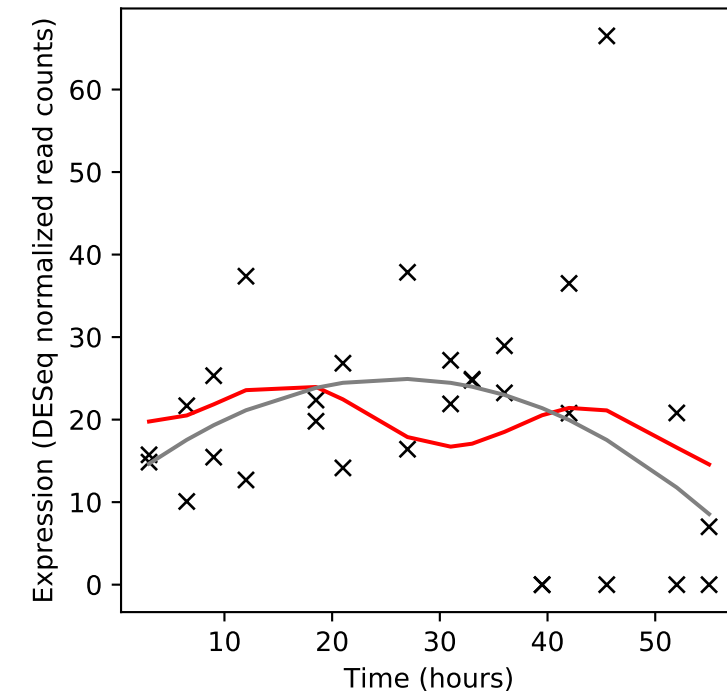
Rv2368c/phoH1



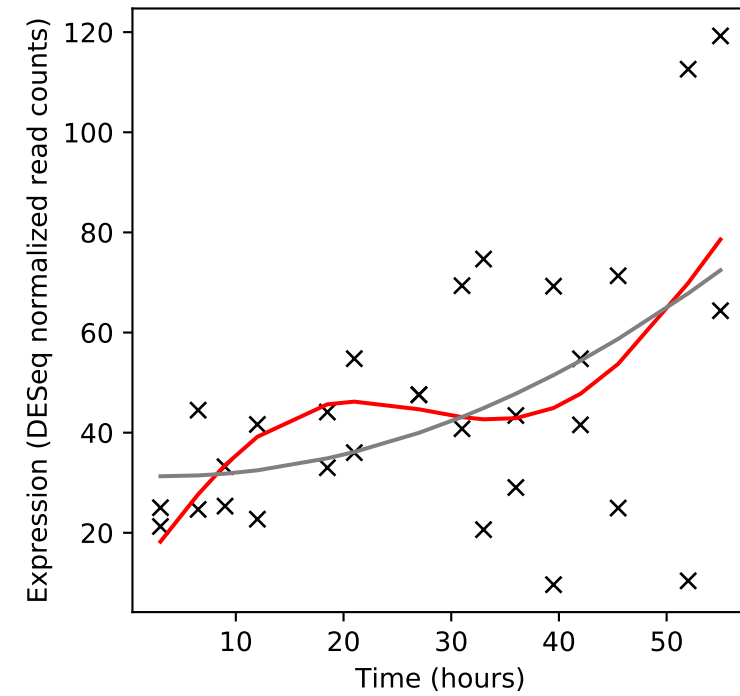
Rv2369c/-



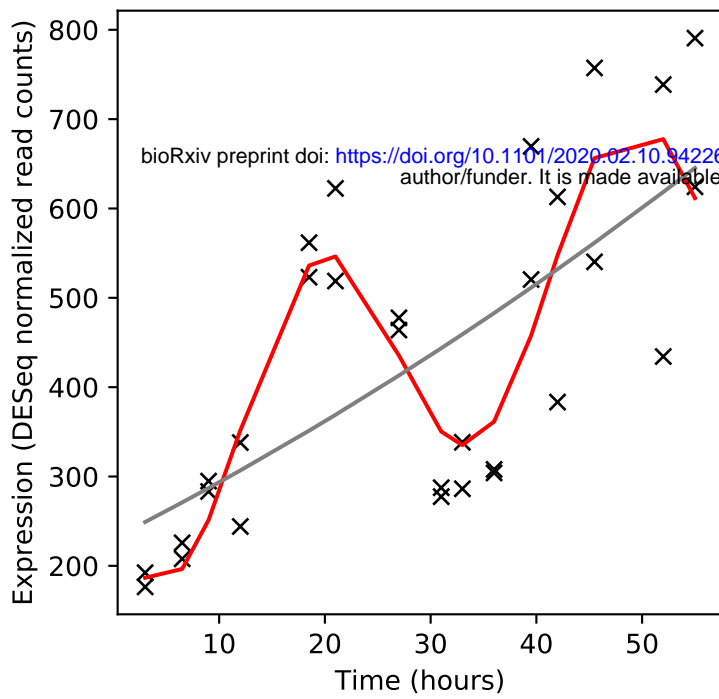
Rv2370c/-



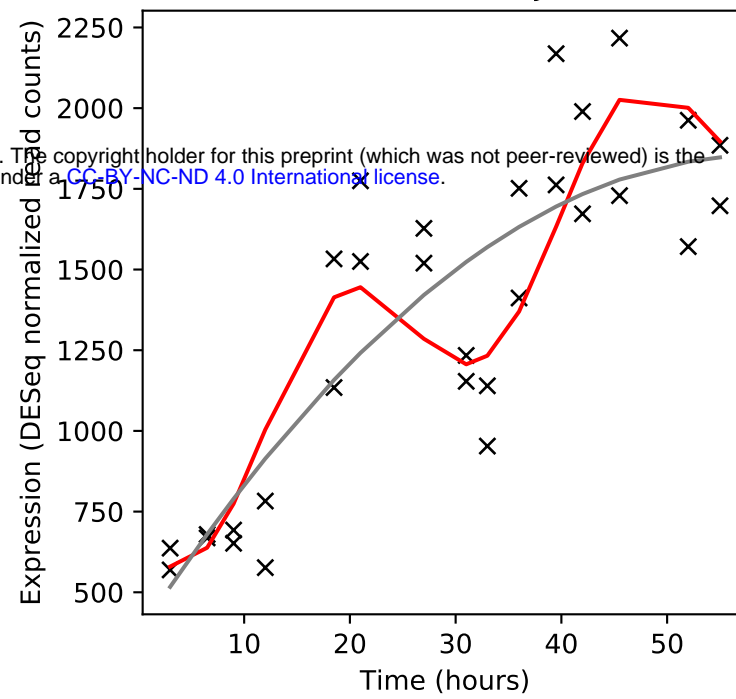
Rv2371/PE_PGRS40



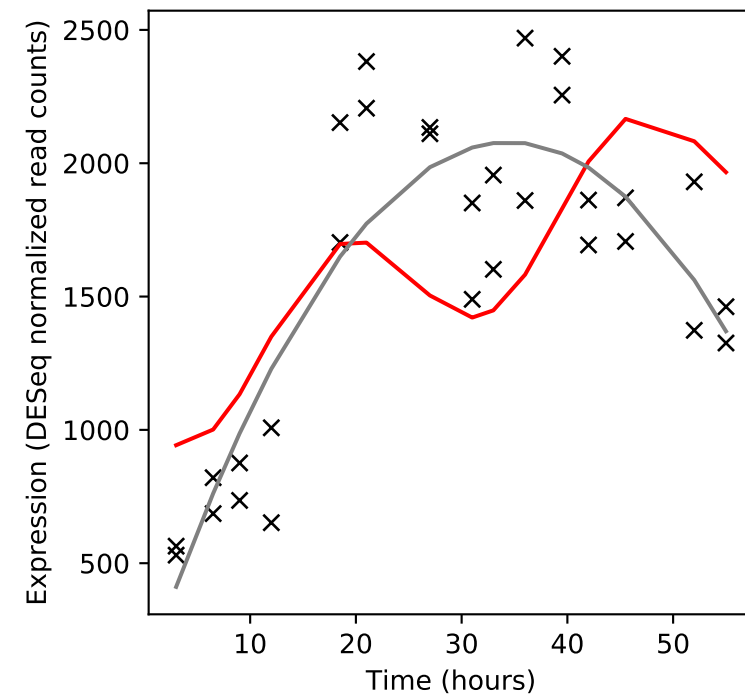
Rv2372c/-



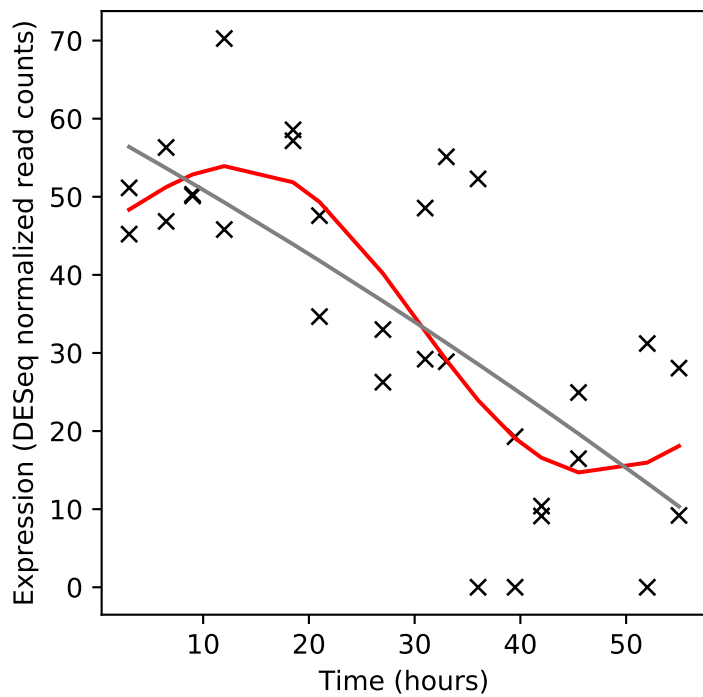
Rv2373c/dnaj2



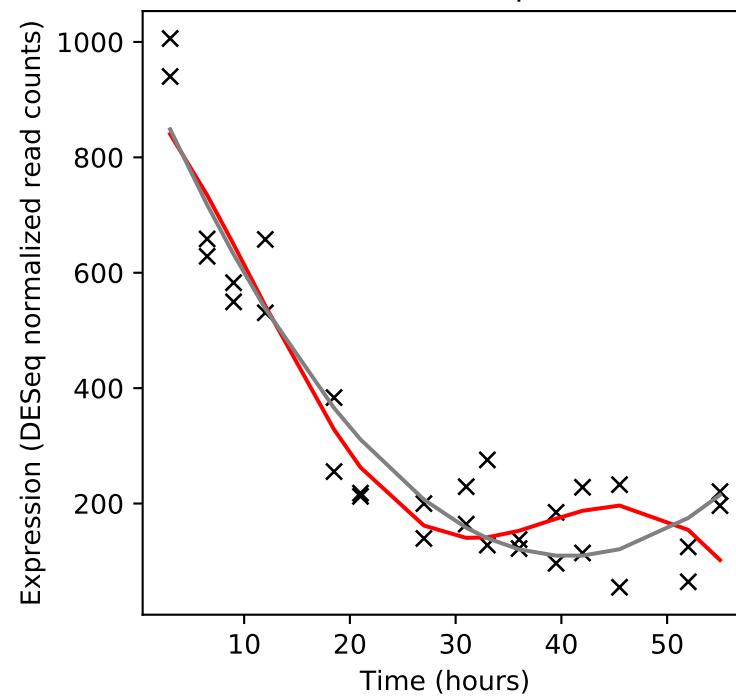
Rv2374c/hrcA



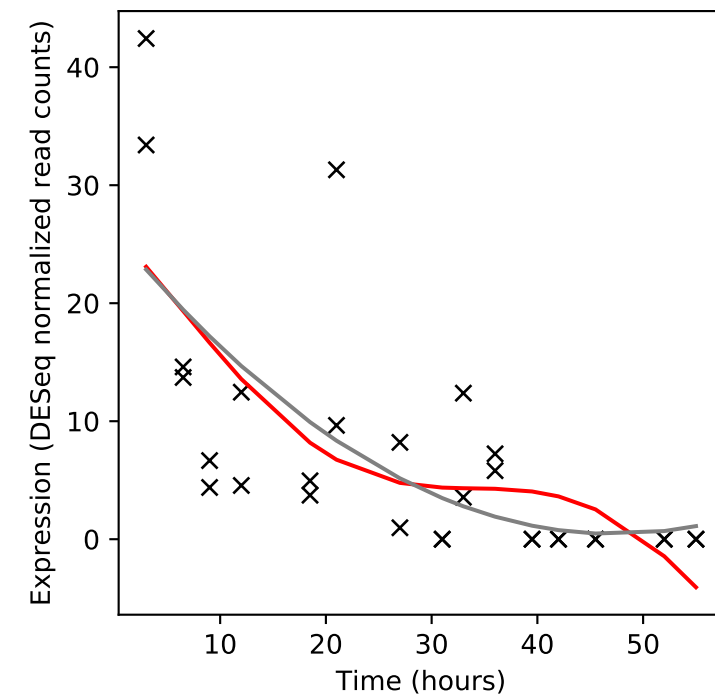
Rv2375/-



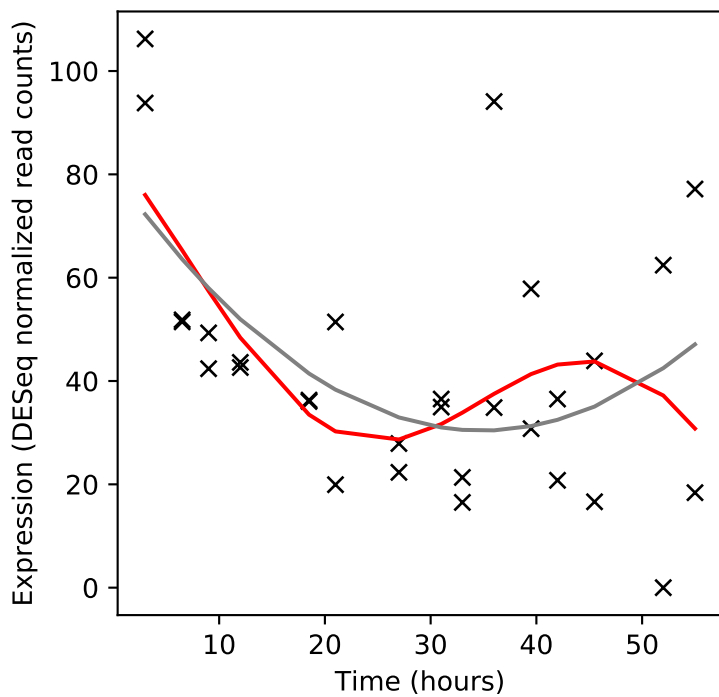
Rv2376c/cfp2



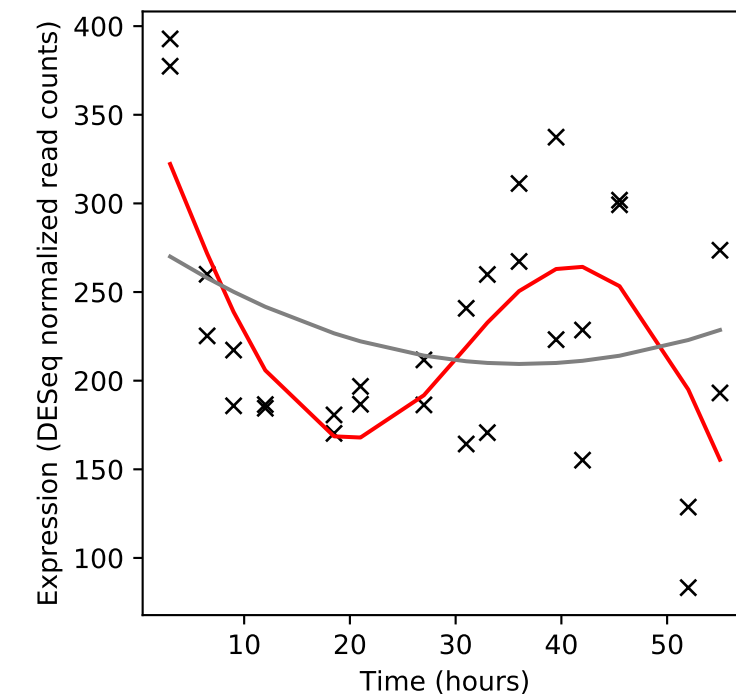
Rv2377c/mbtH



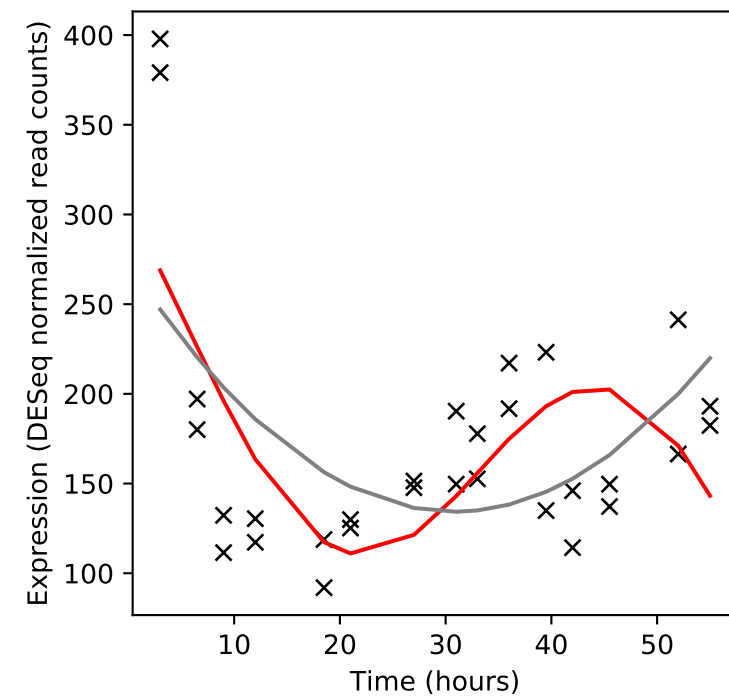
Rv2378c/mbtG



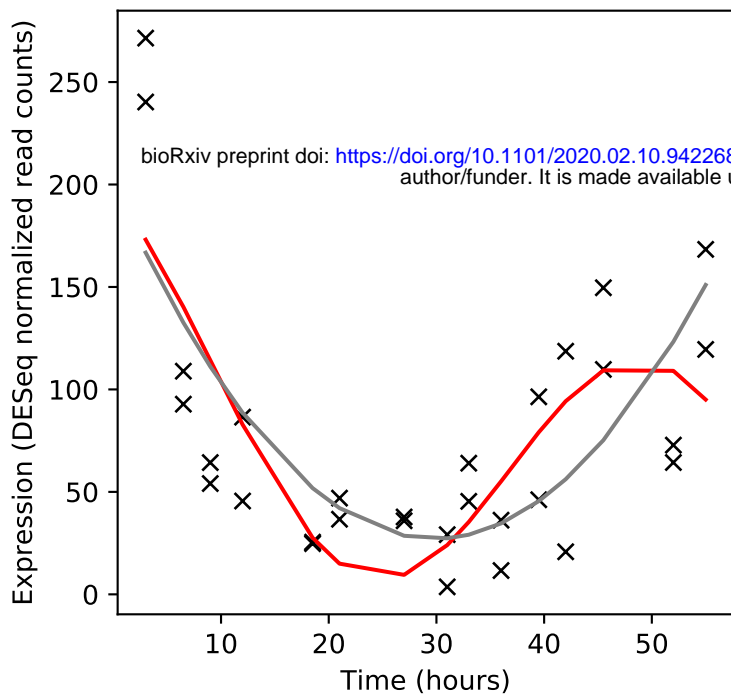
Rv2379c/mbtF



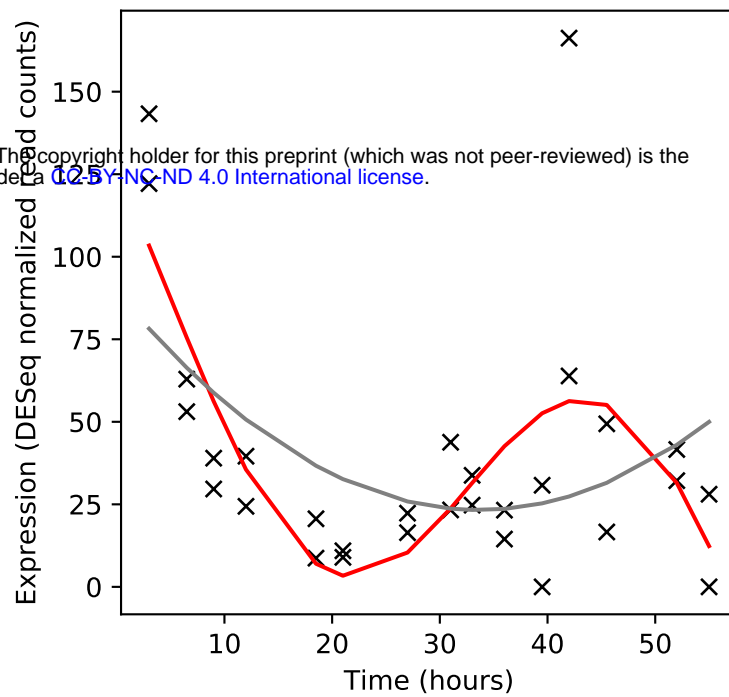
Rv2380c/mbtE



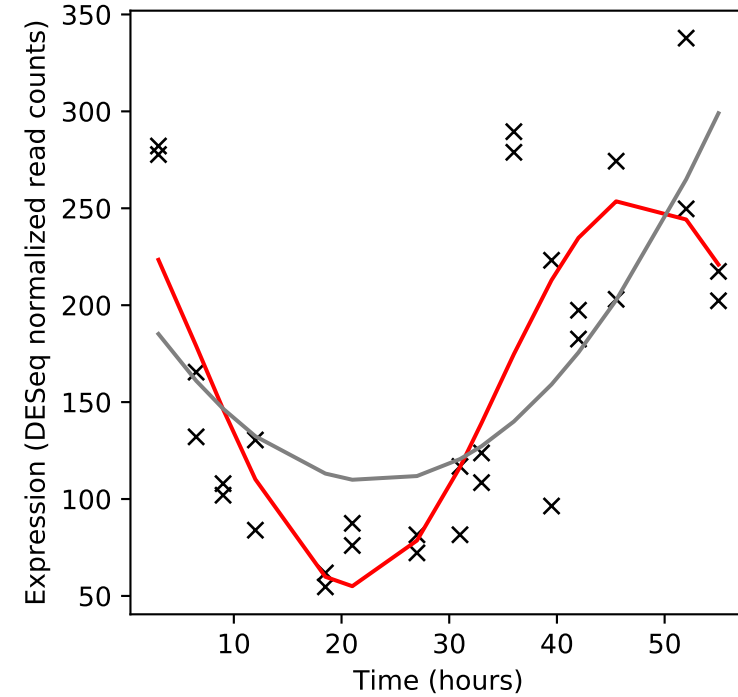
Rv2381c/mbtD



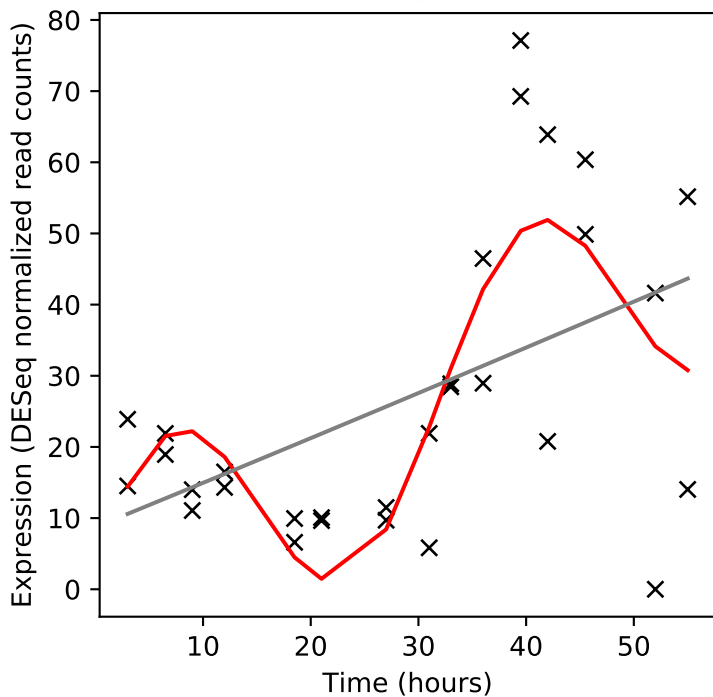
Rv2382c/mbtC



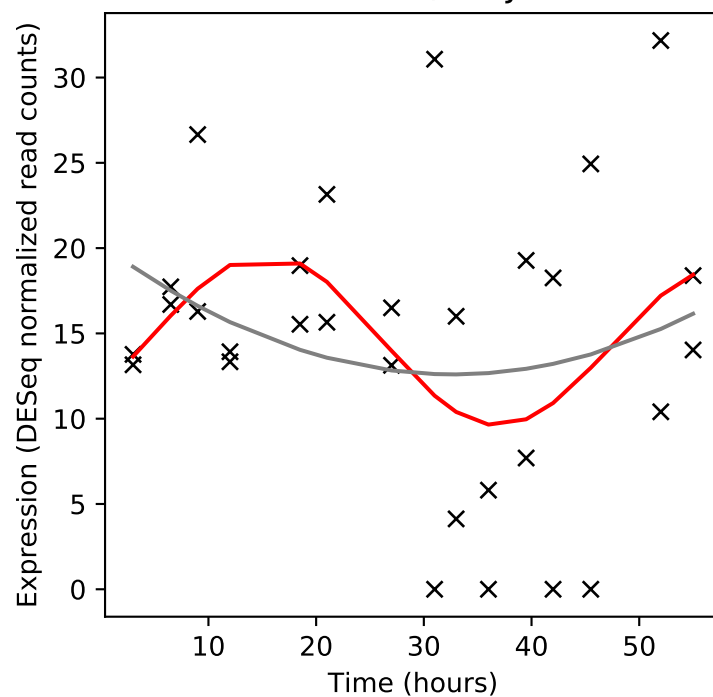
Rv2383c/mbtB



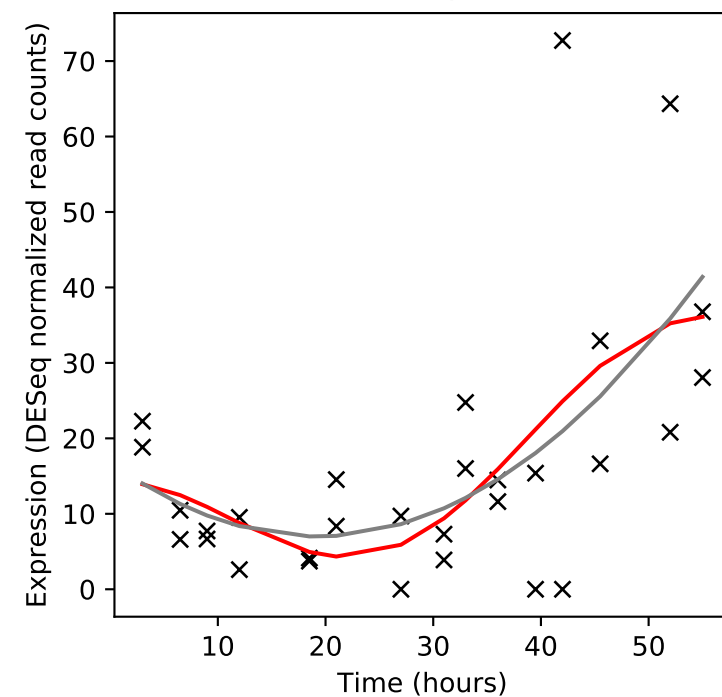
Rv2384/mbtA



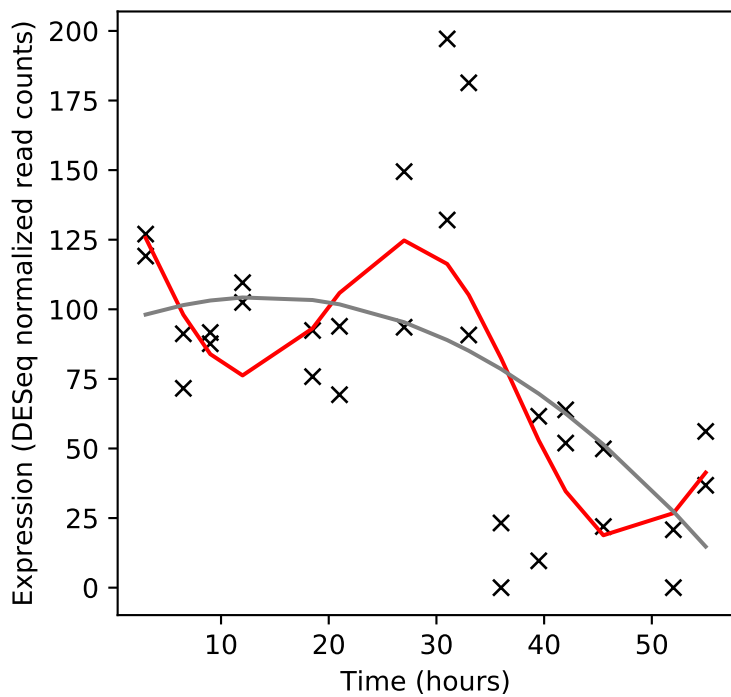
Rv2385/mbtJ



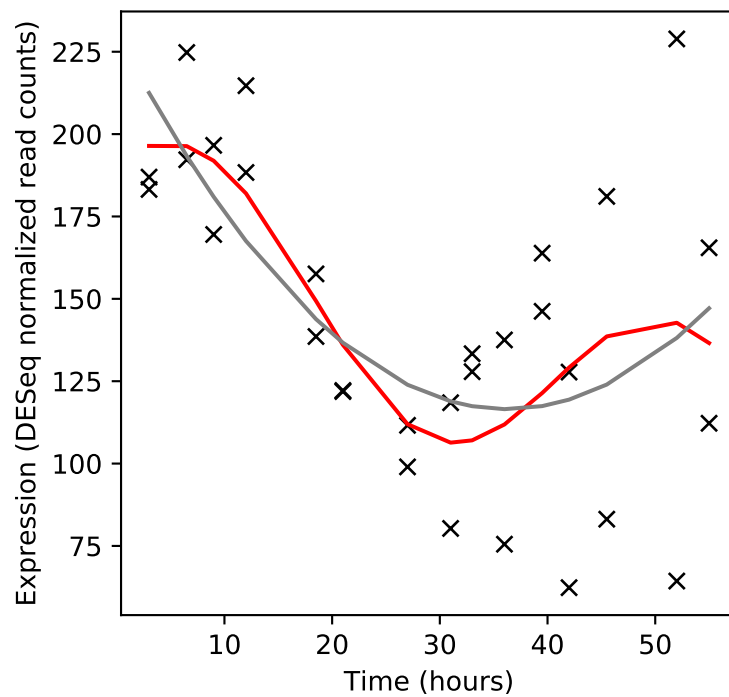
Rv2386c/mbtI



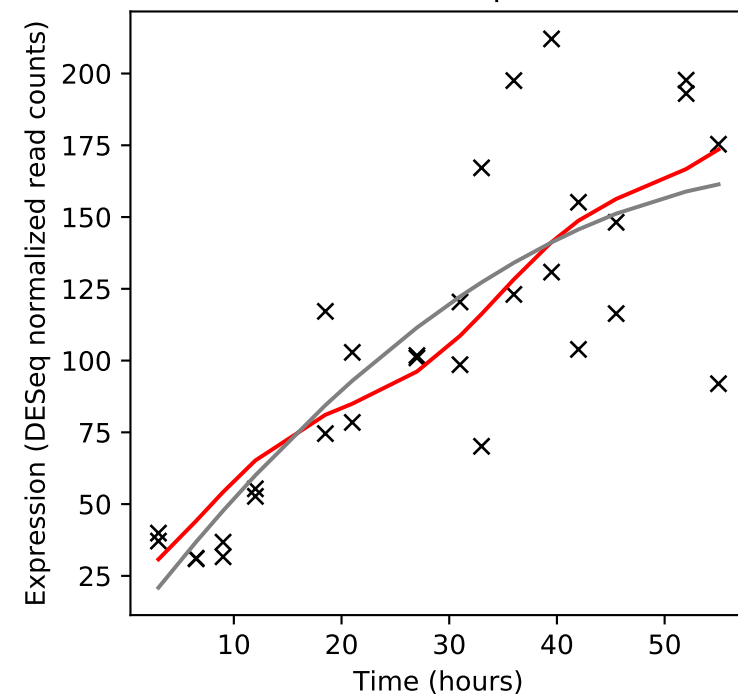
Rv2387/-



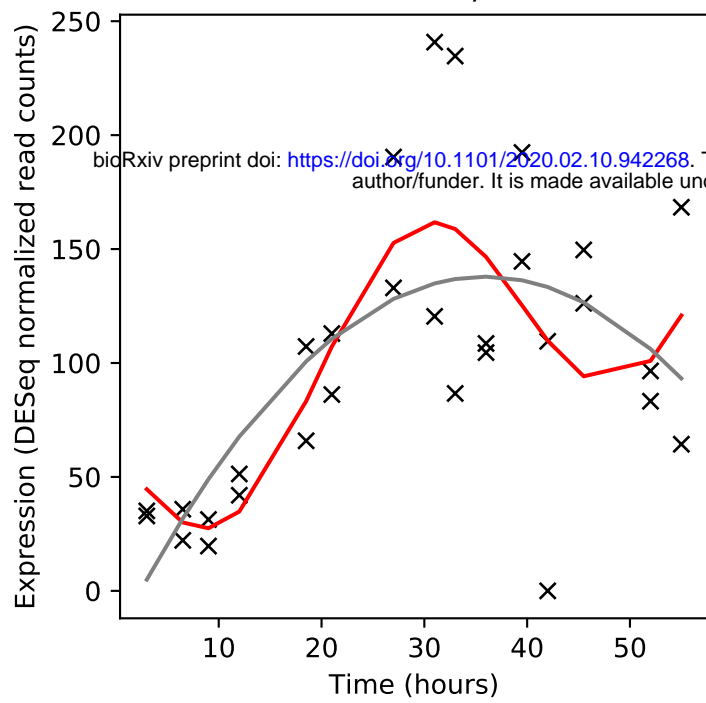
Rv2388c/hemN



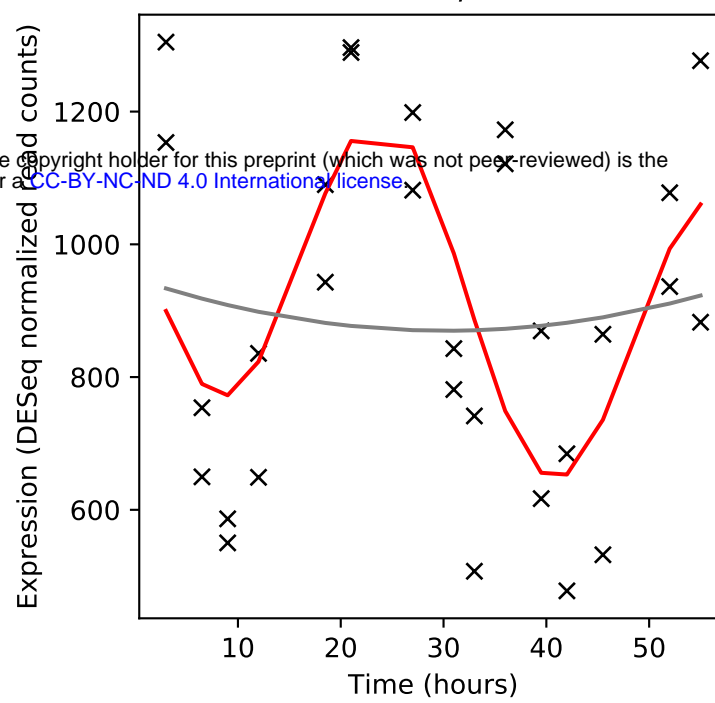
Rv2389c/rpfD



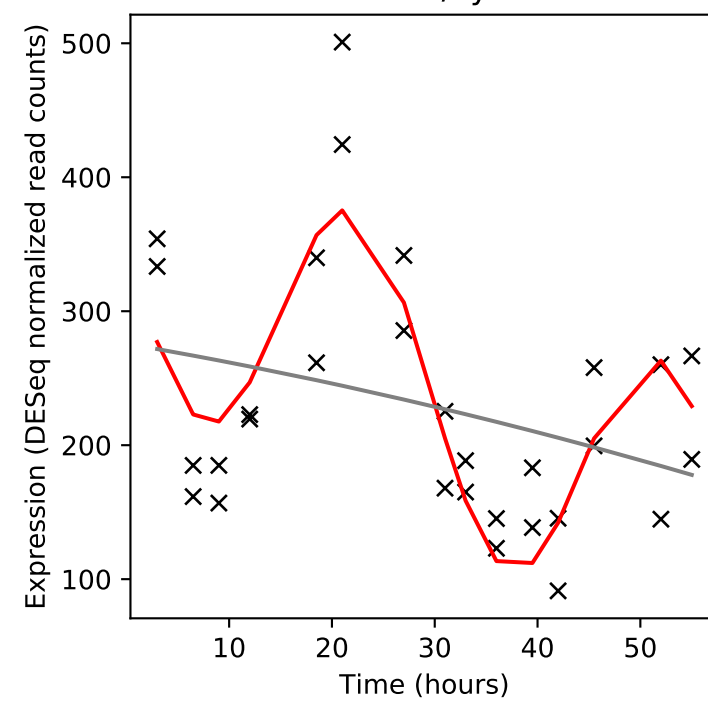
Rv2390c/-



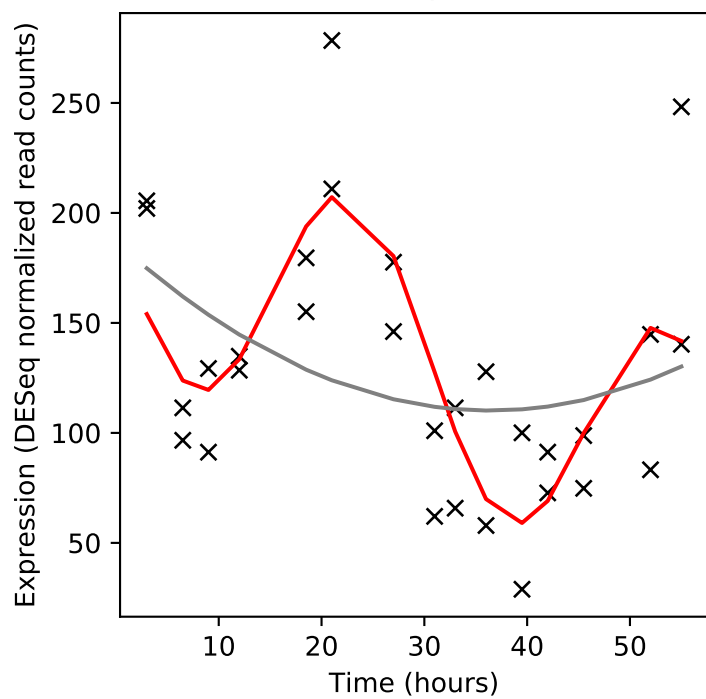
Rv2391/sirA



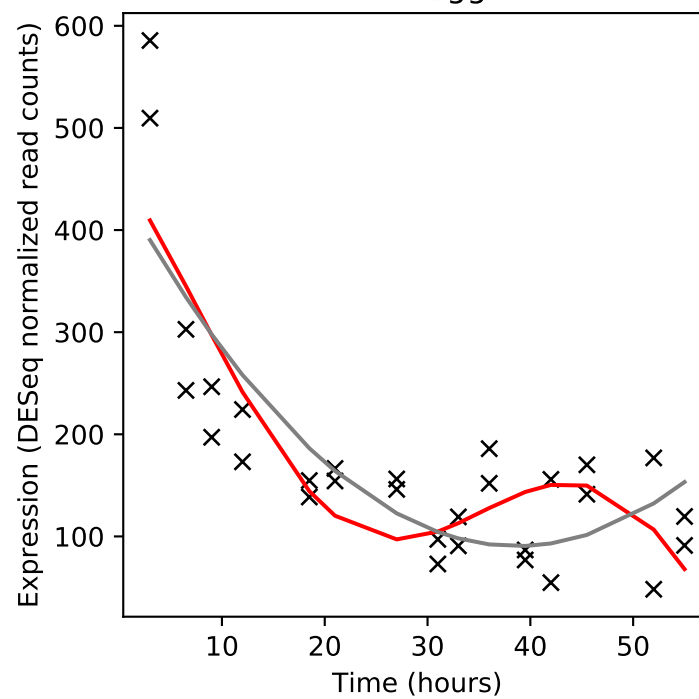
Rv2392/cysH



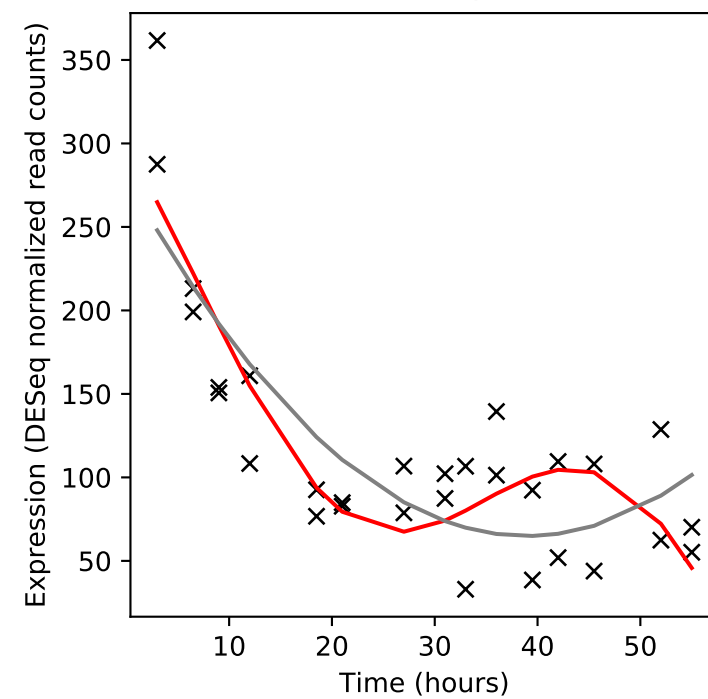
Rv2393/che1



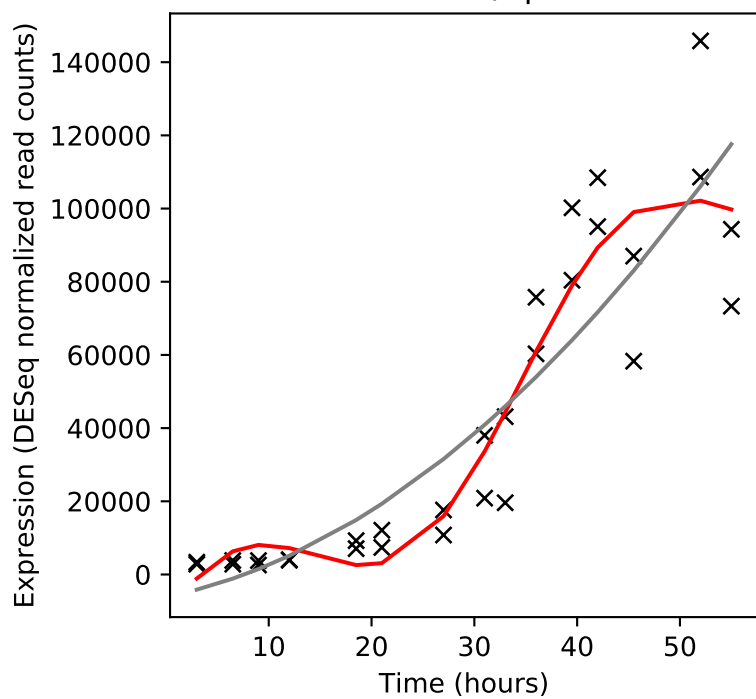
Rv2394/ggtB



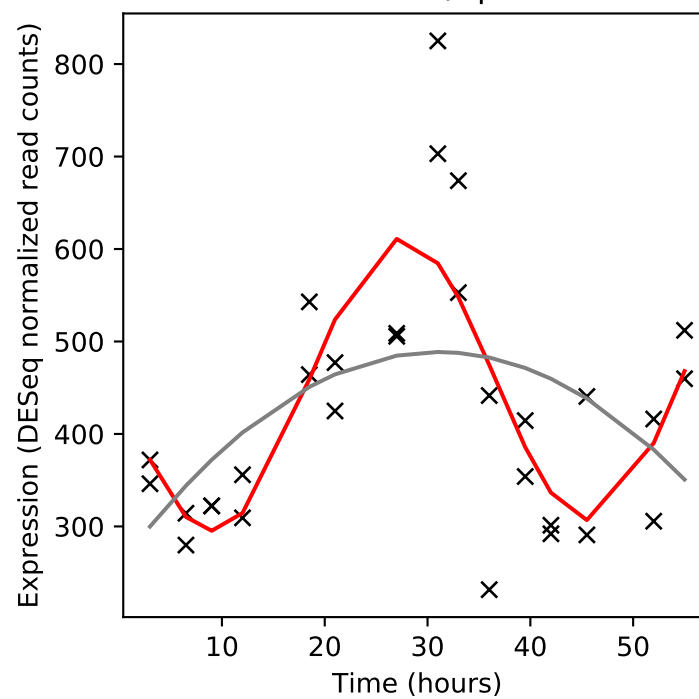
Rv2395/-



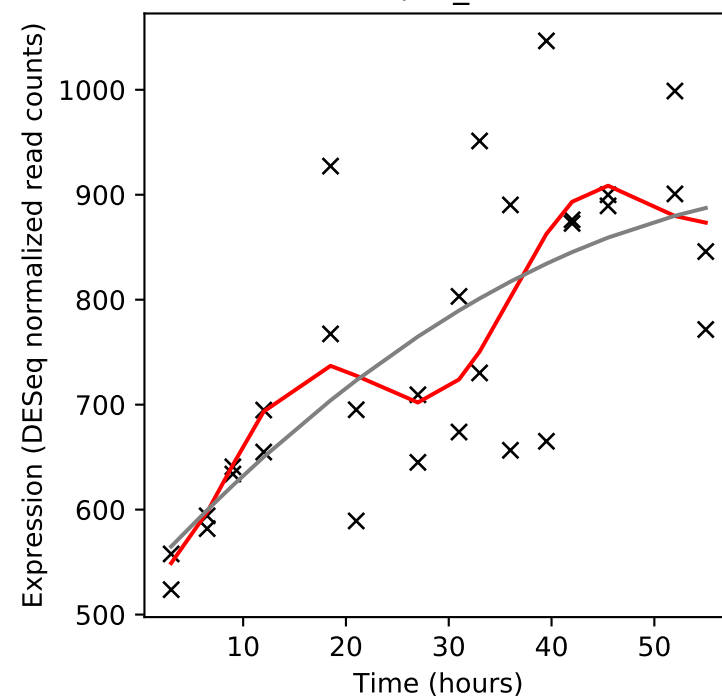
Rv2395A/aprA



Rv2395B/aprB

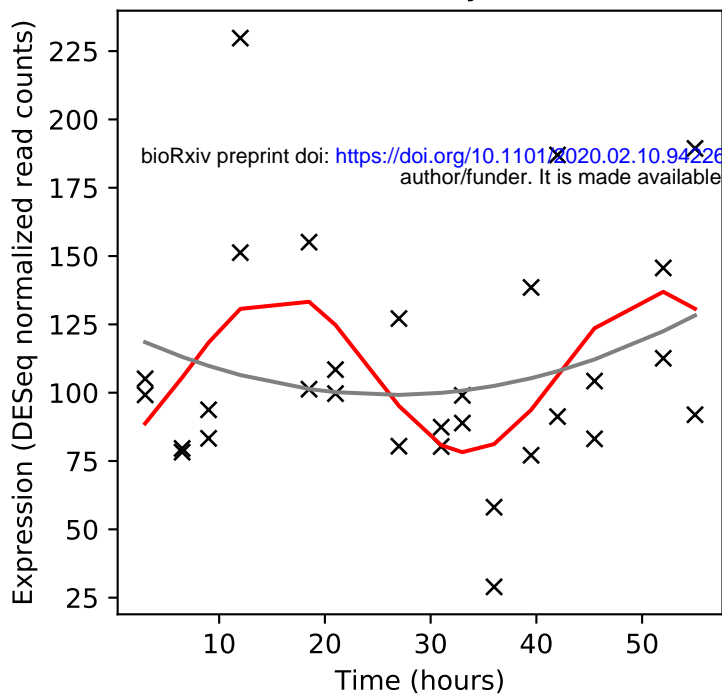


Rv2396/PE_PGRS41

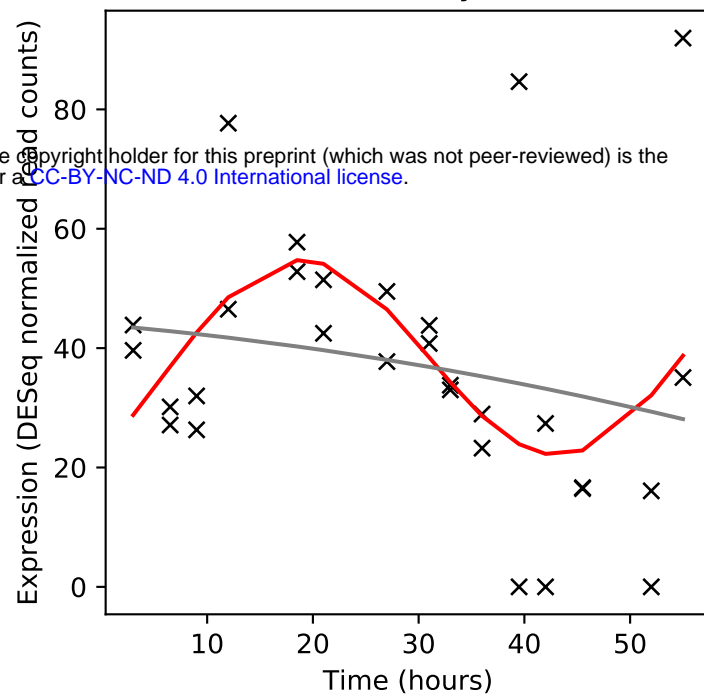


bioRxiv preprint doi: <https://doi.org/10.1101/2020.02.10.942268>; this version posted February 10, 2020. The copyright holder for this preprint (which was not certified by peer review) is the author/funder. It is made available under aCC-BY-NC-ND 4.0 International license.

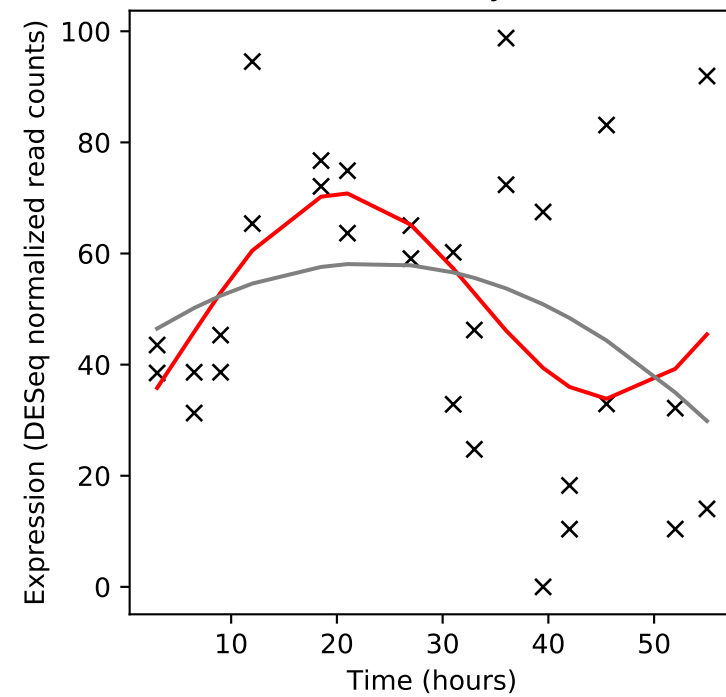
Rv2397c/cysA1



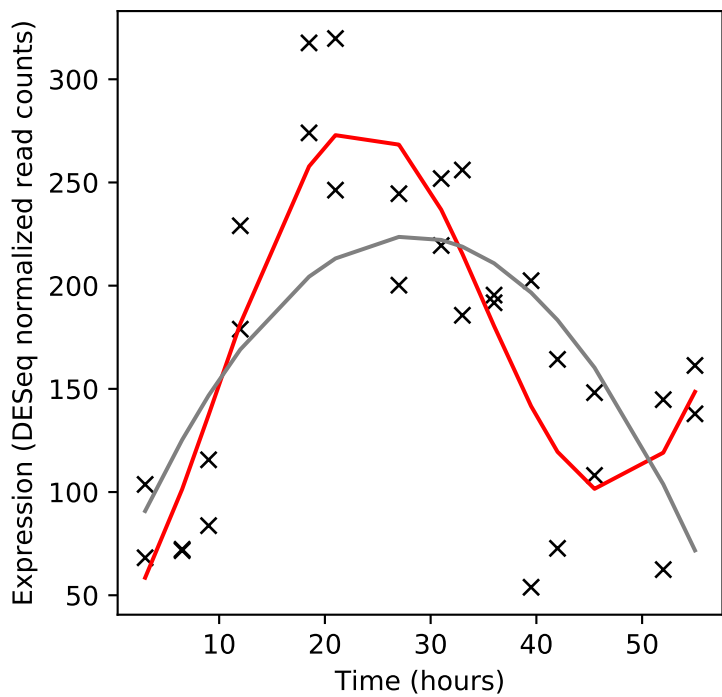
Rv2398c/cysW



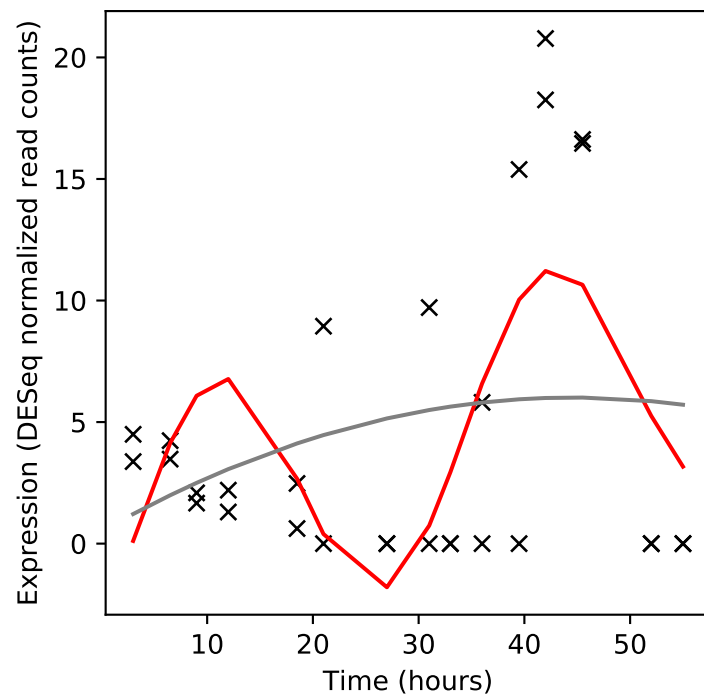
Rv2399c/cysT



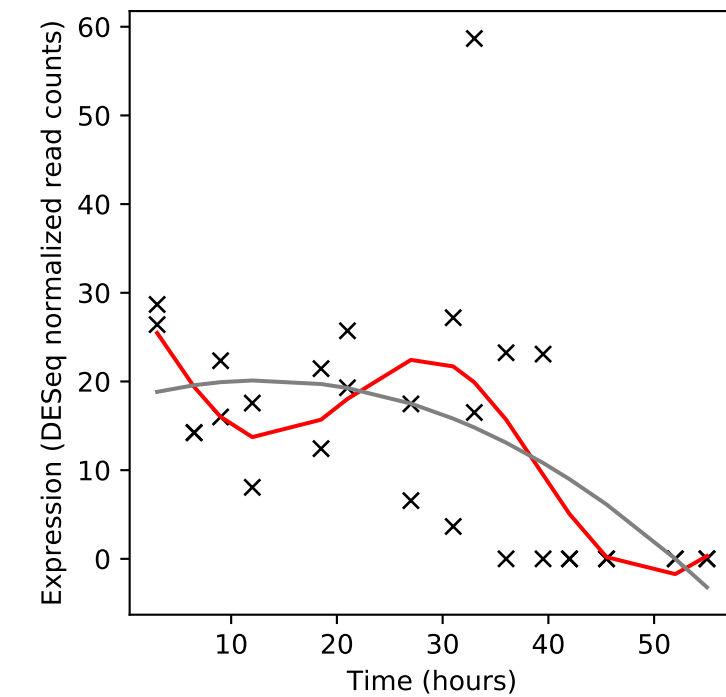
Rv2400c/subI



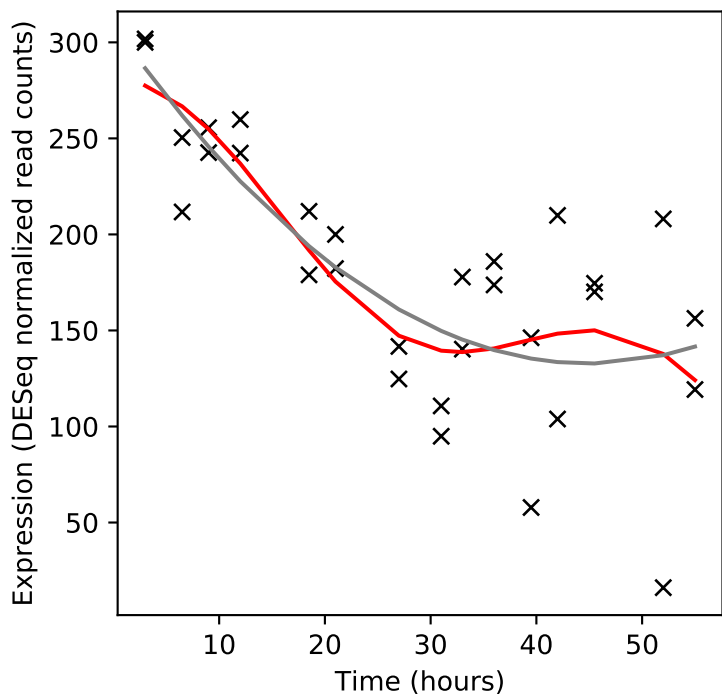
Rv2401/-



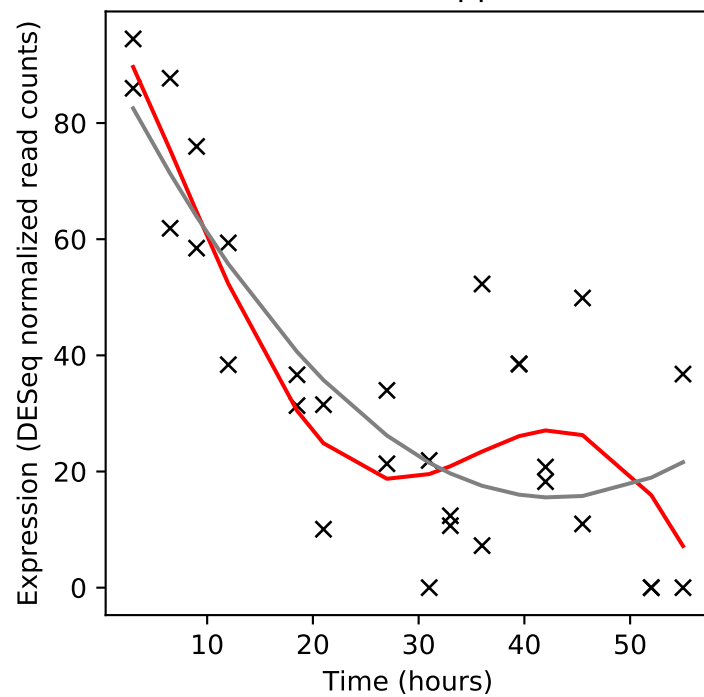
Rv2401A/-



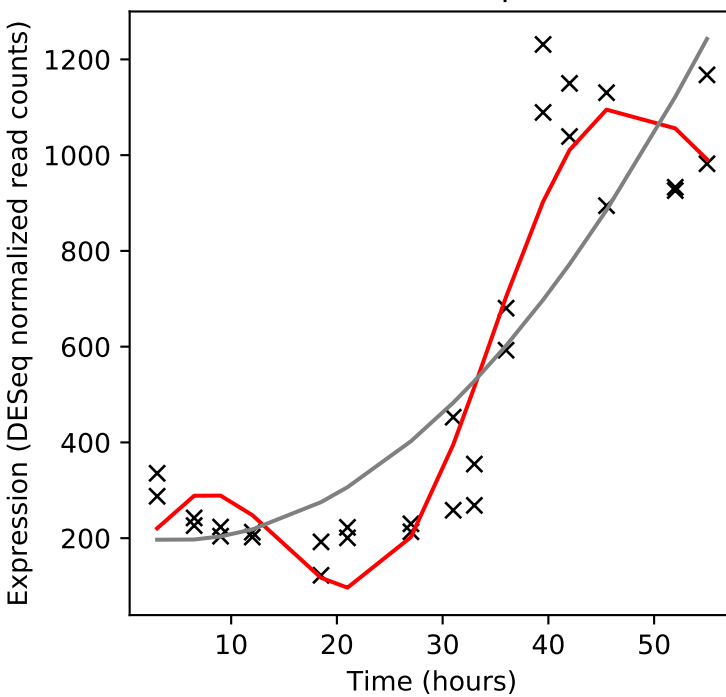
Rv2402/-



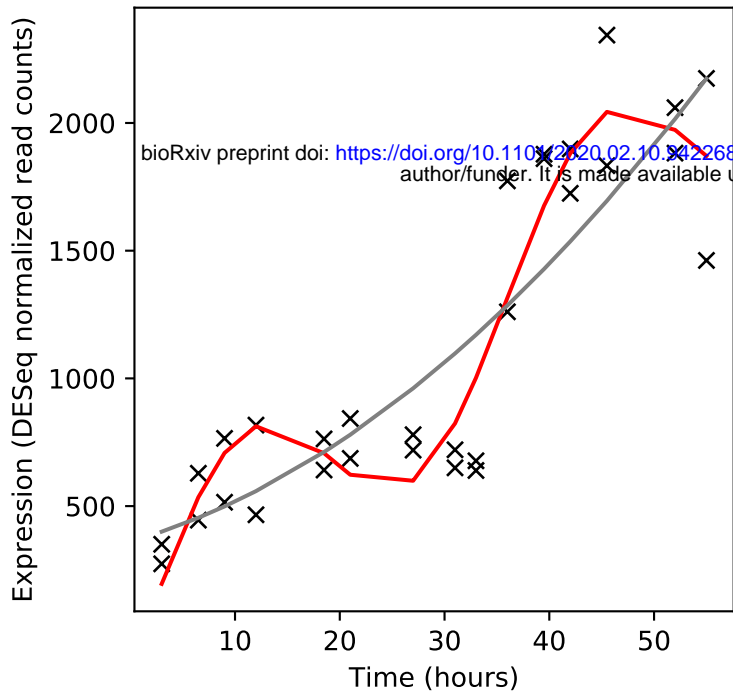
Rv2403c/lppR



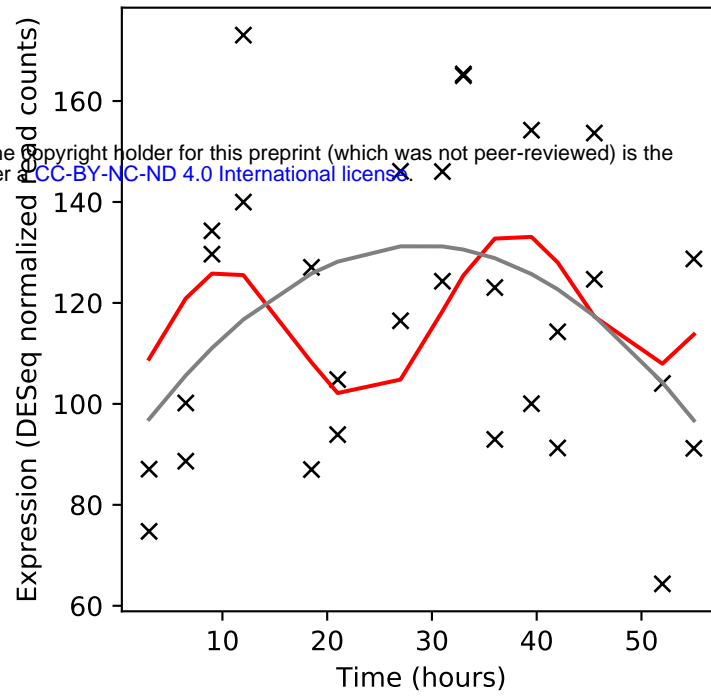
Rv2404c/lepA



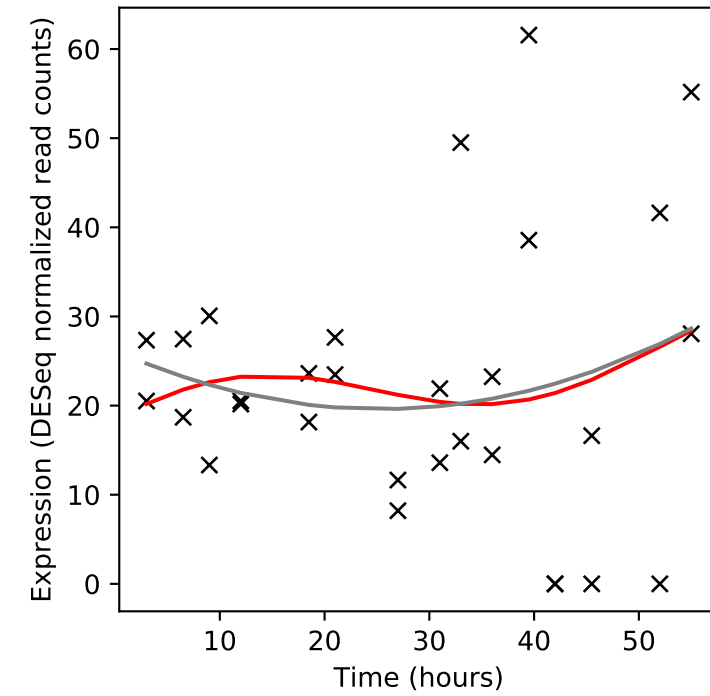
Rv2405/-



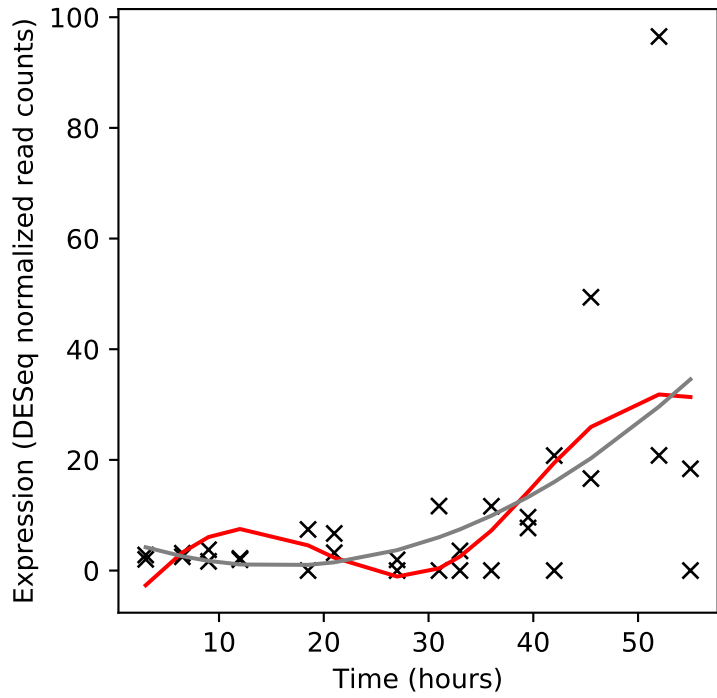
Rv2406c/-



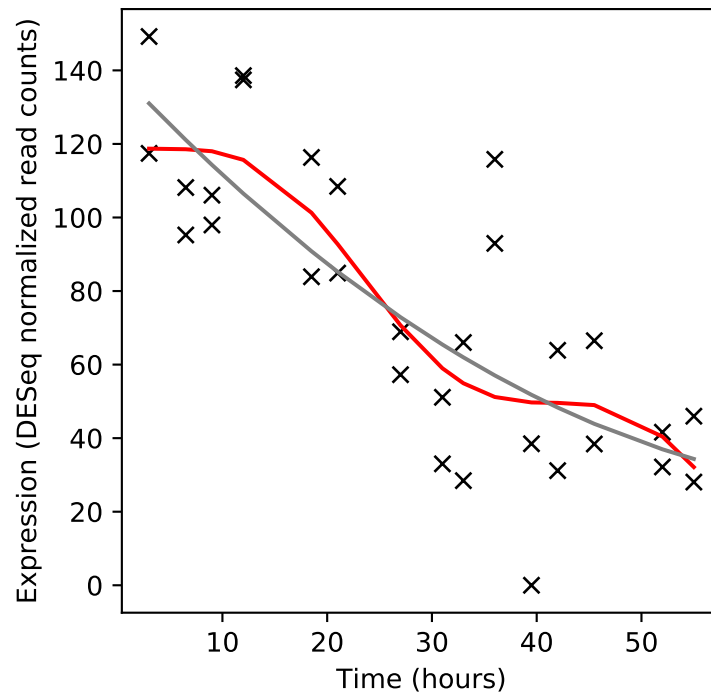
Rv2407/-



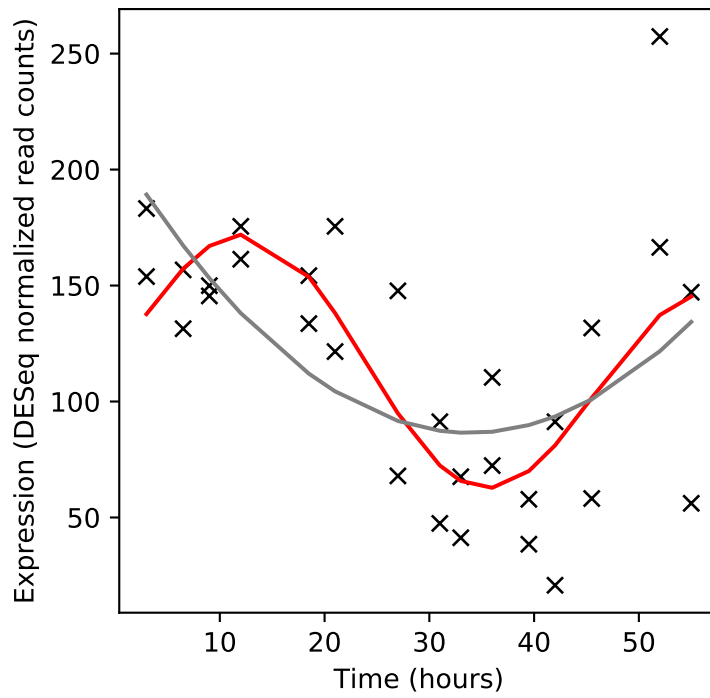
Rv2408/PE24



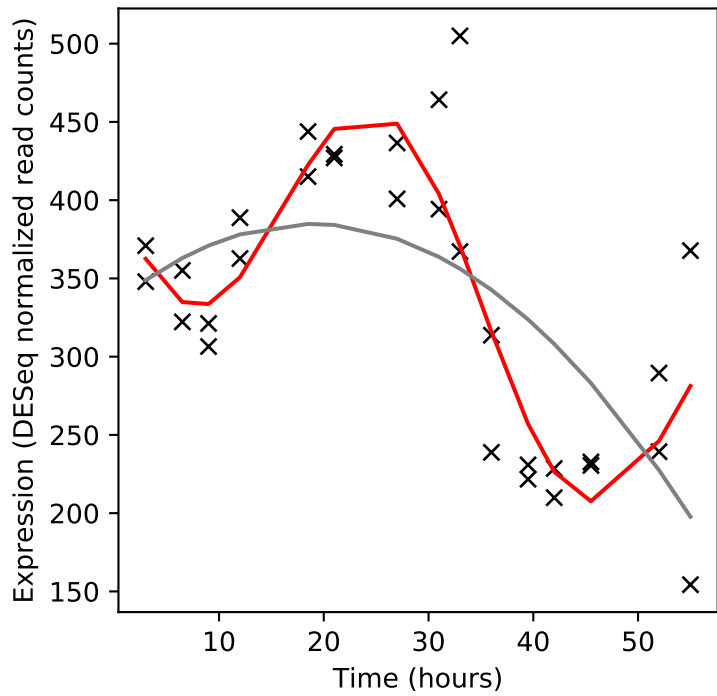
Rv2409c/-



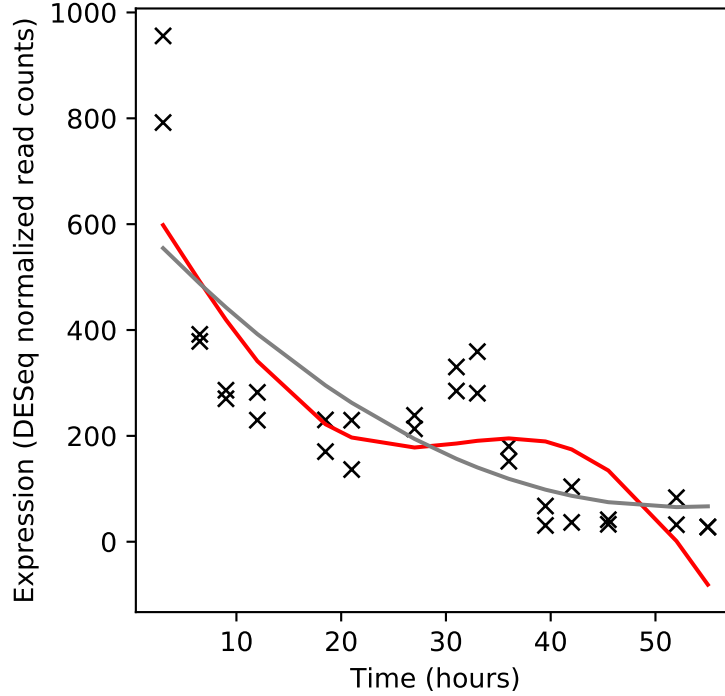
Rv2410c/-



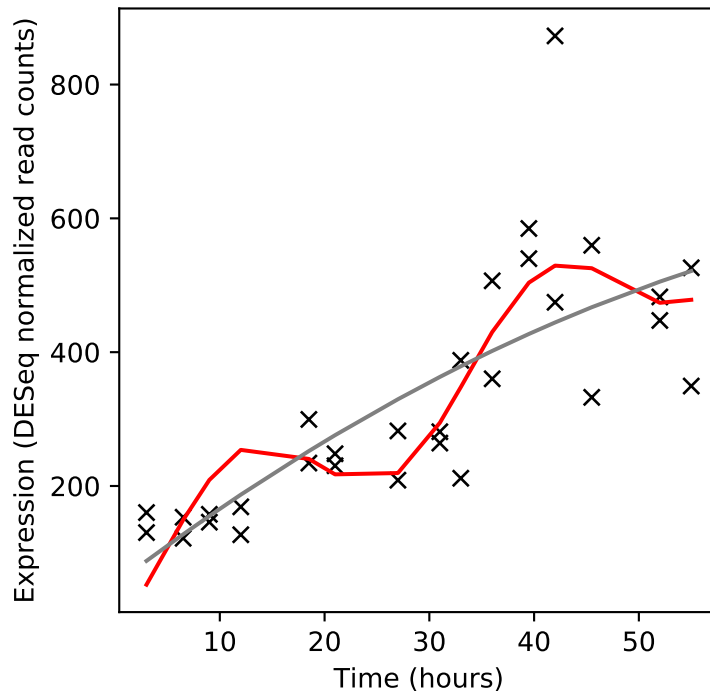
Rv2411c/-



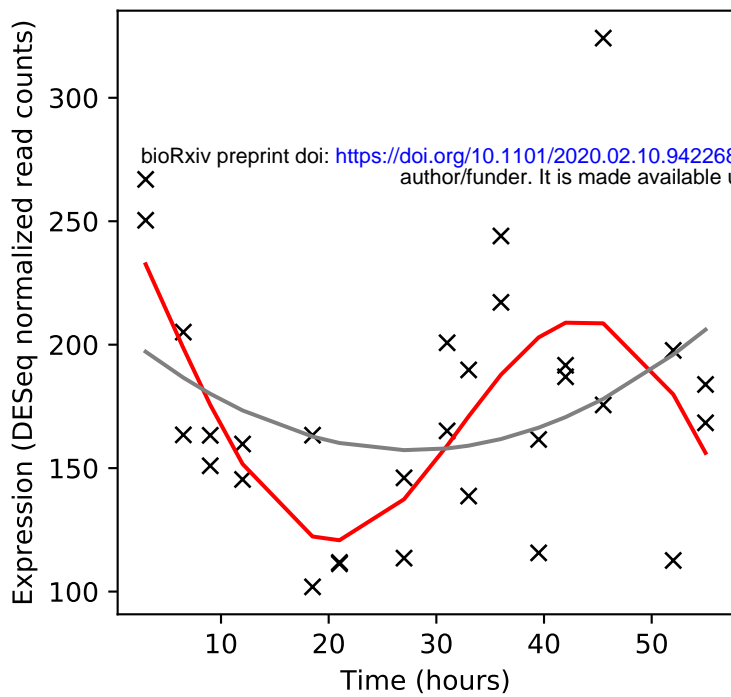
Rv2412/rpsT



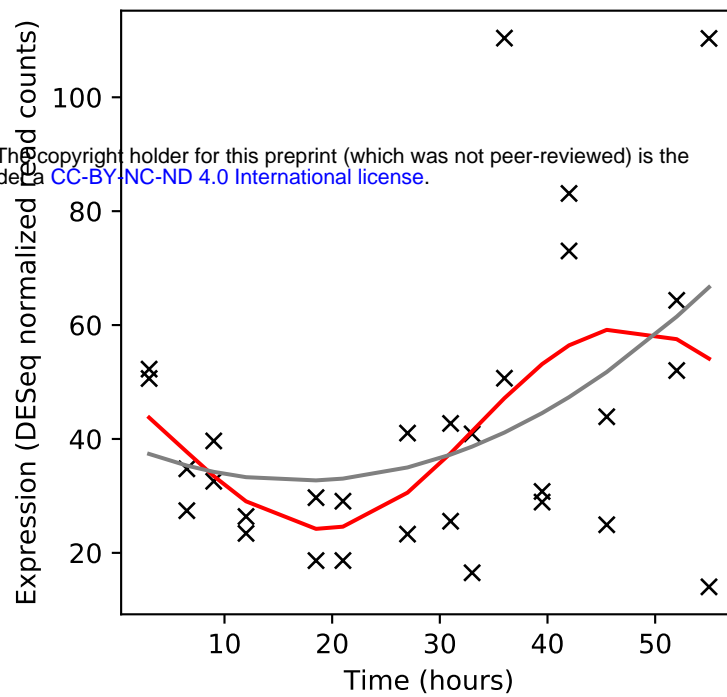
Rv2413c/-



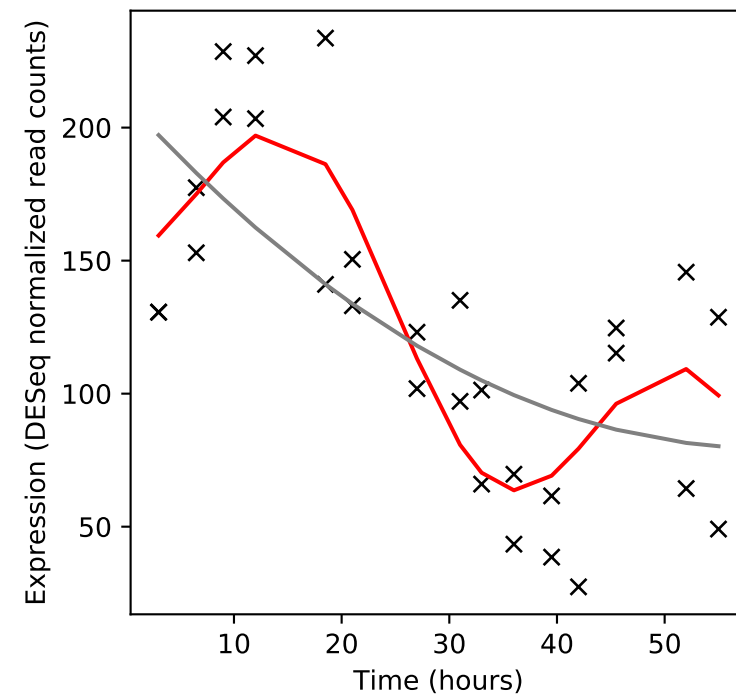
Rv2414c/-



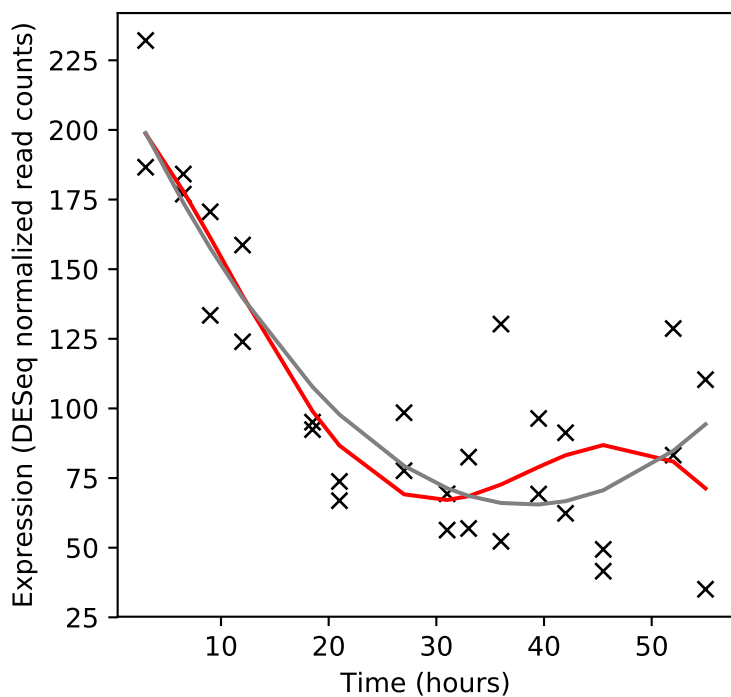
Rv2415c/-



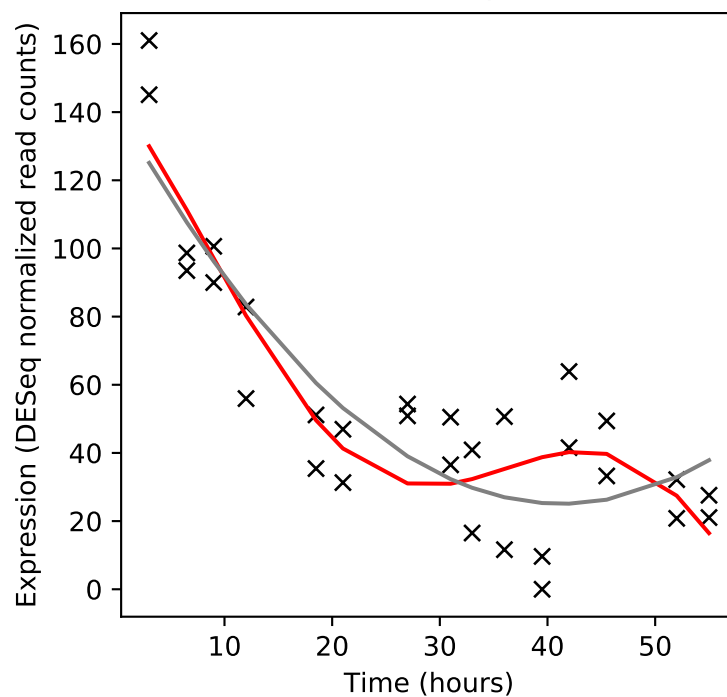
Rv2416c/eis



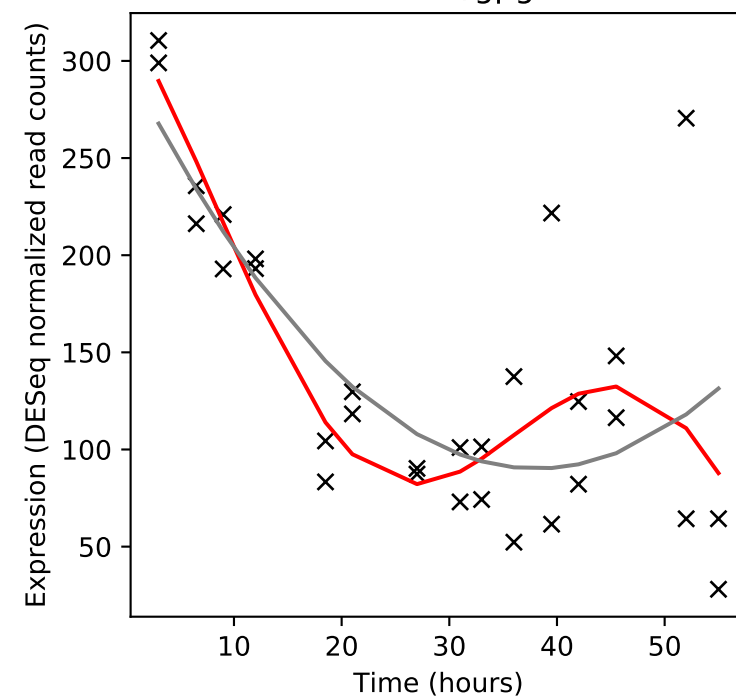
Rv2417c/-



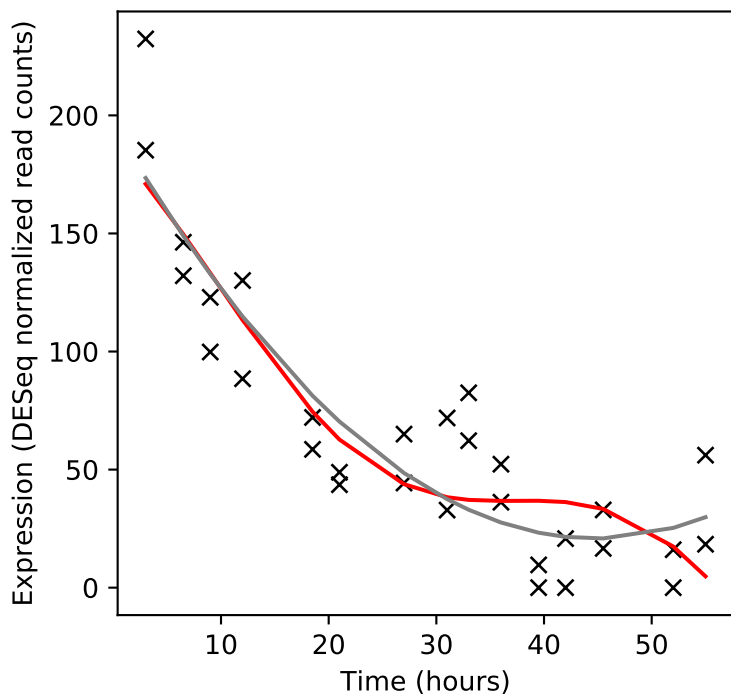
Rv2418c/-



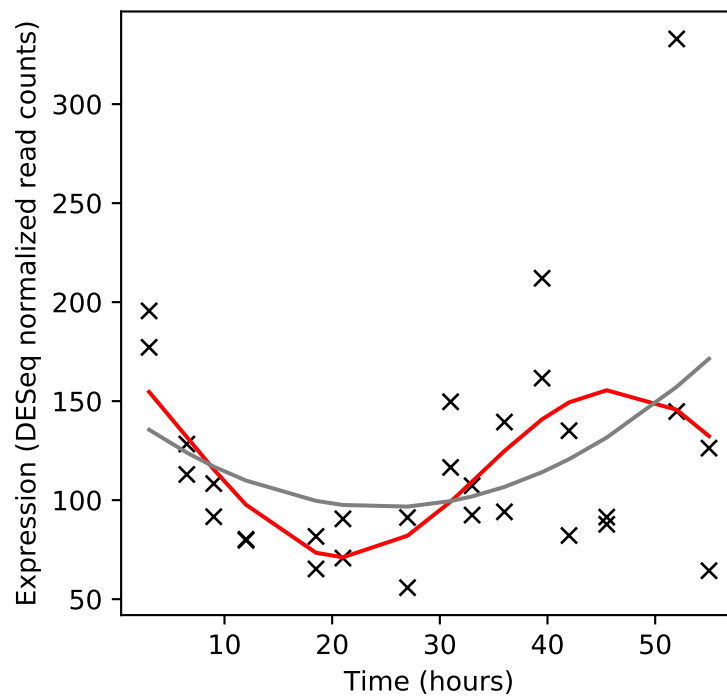
Rv2419c/gpgP



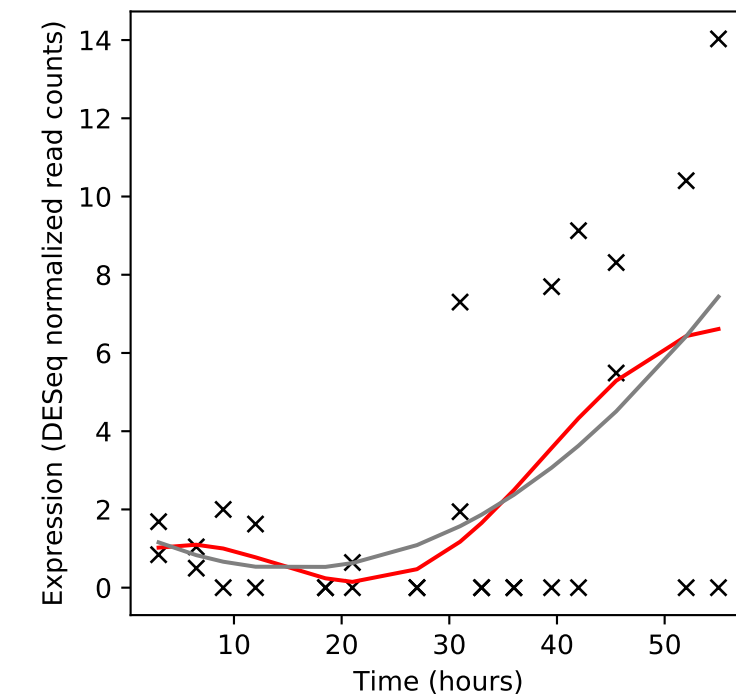
Rv2420c/-



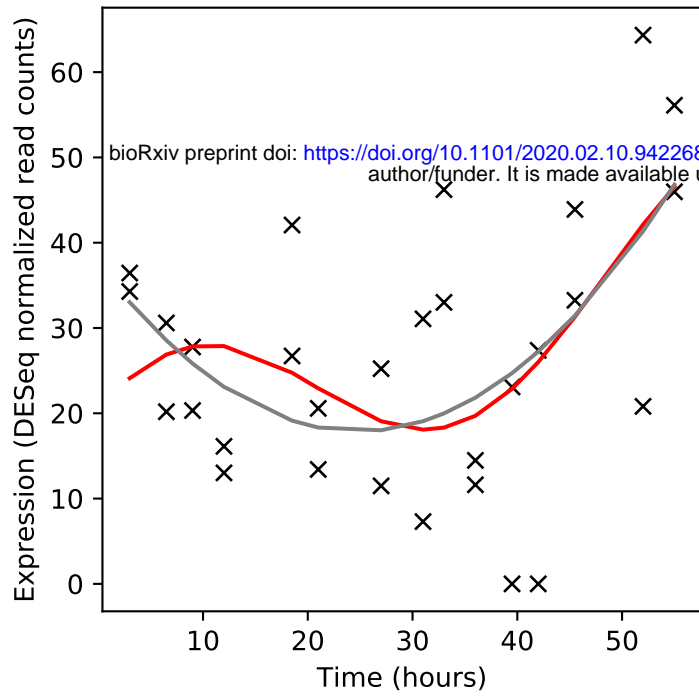
Rv2421c/nadD



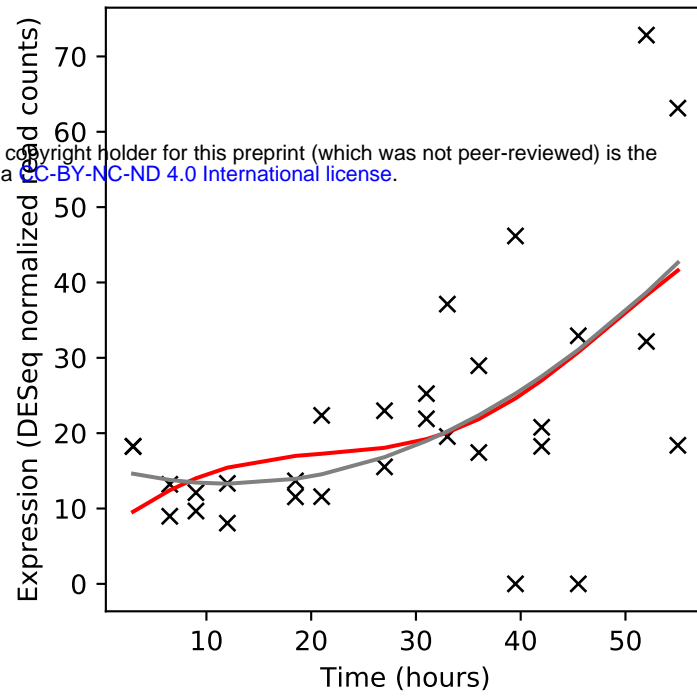
Rv2422/-



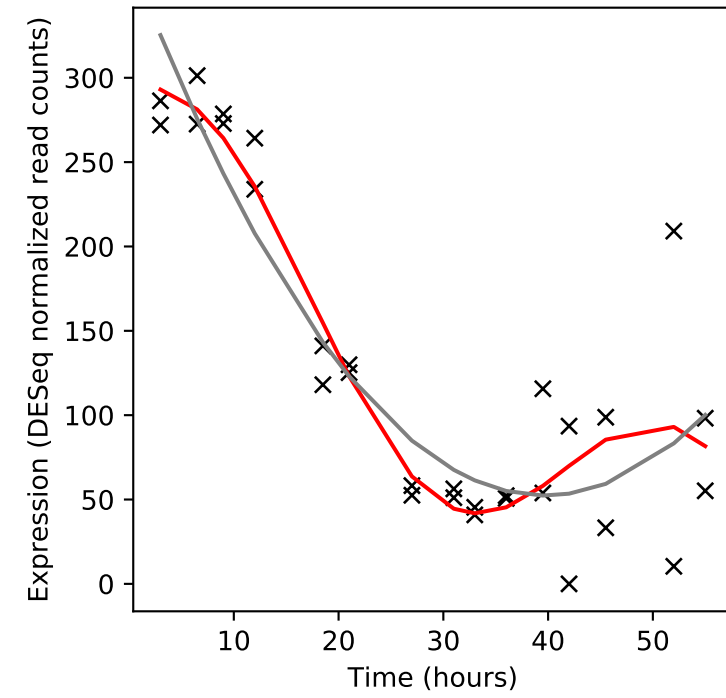
Rv2423/-



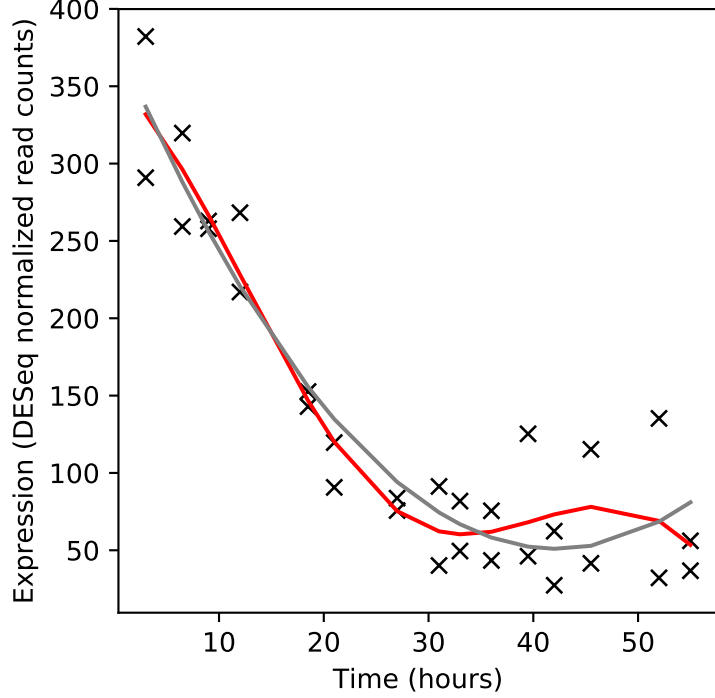
Rv2424c/-



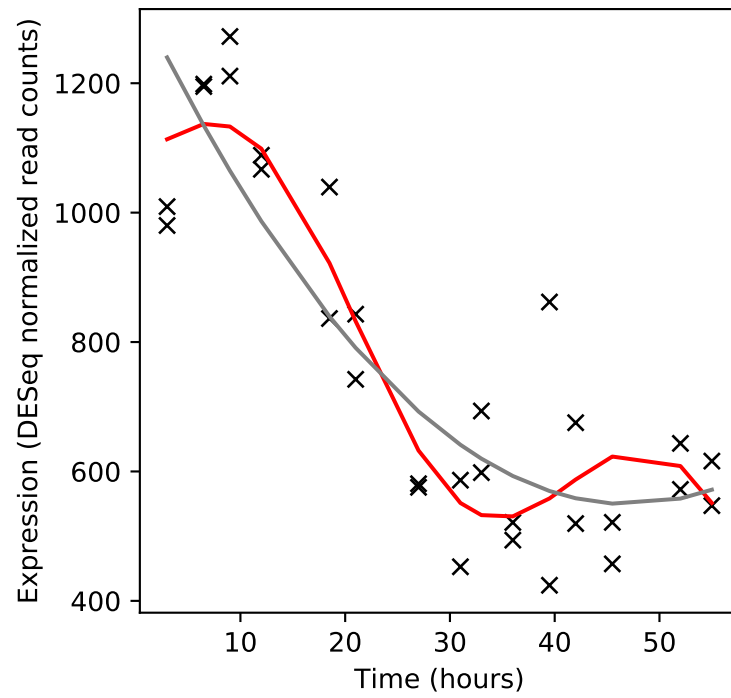
Rv2425c/-



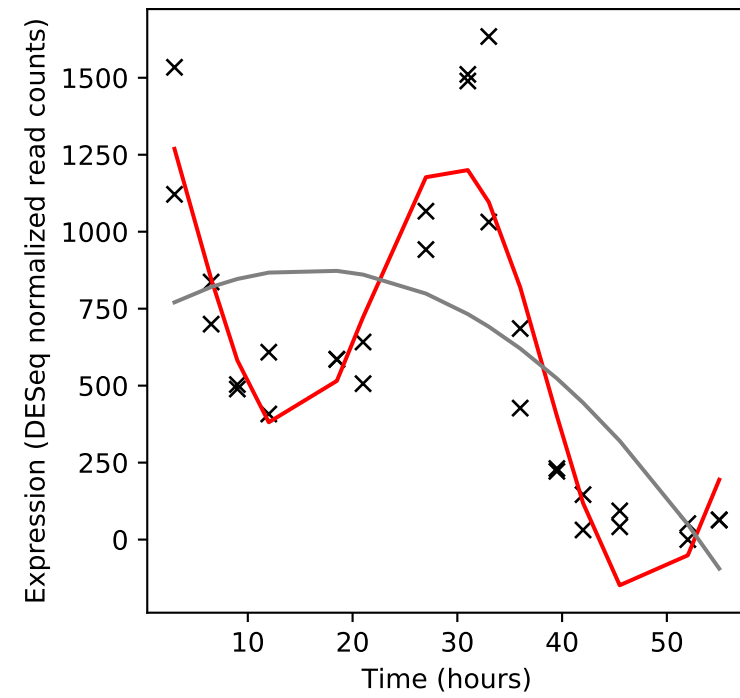
Rv2426c/-



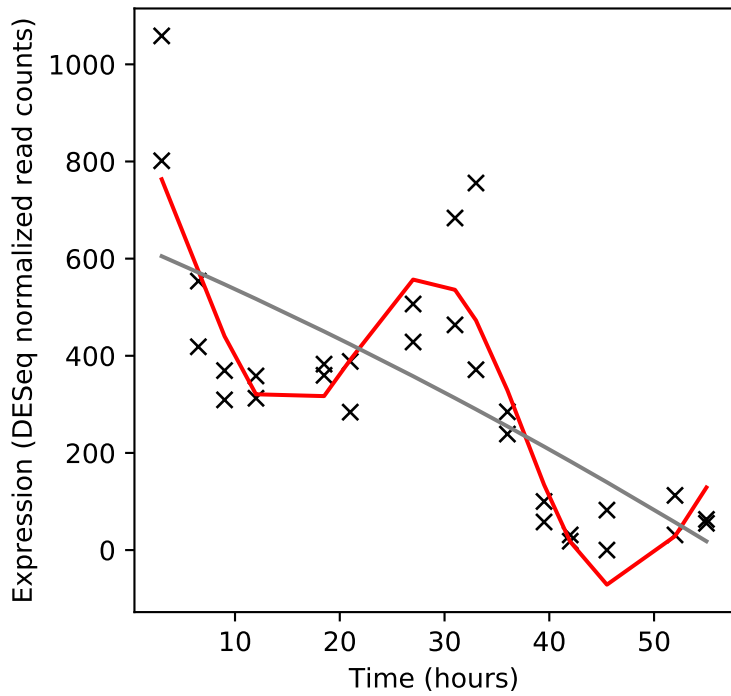
Rv2427c/proA



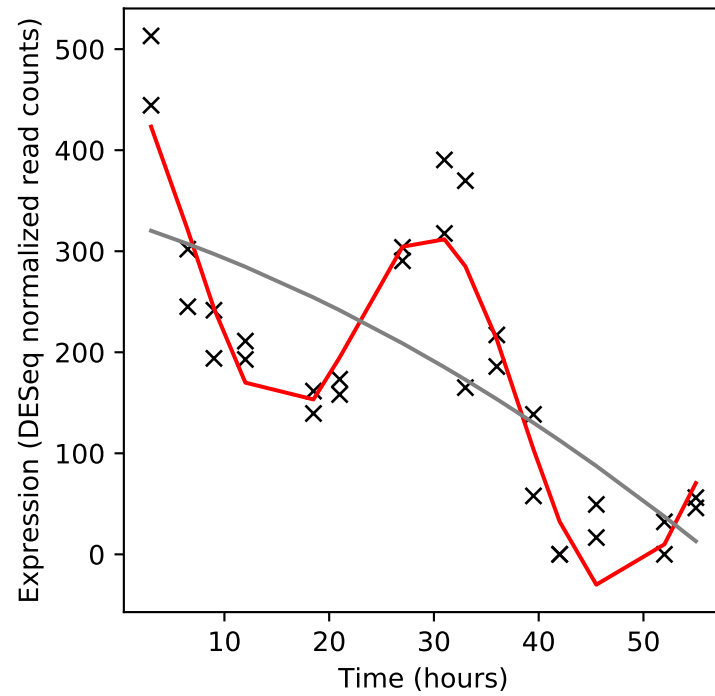
Rv2428/ahpC



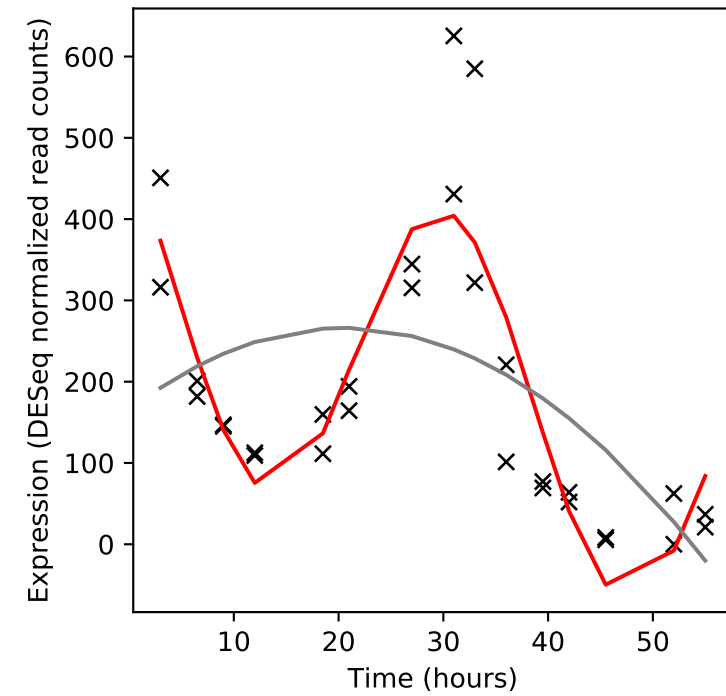
Rv2429/ahpD



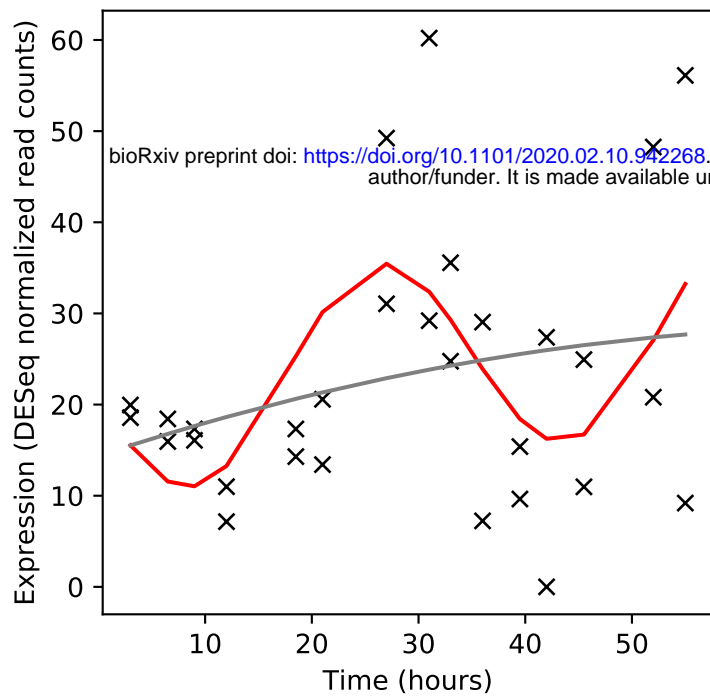
Rv2430c/PPE41



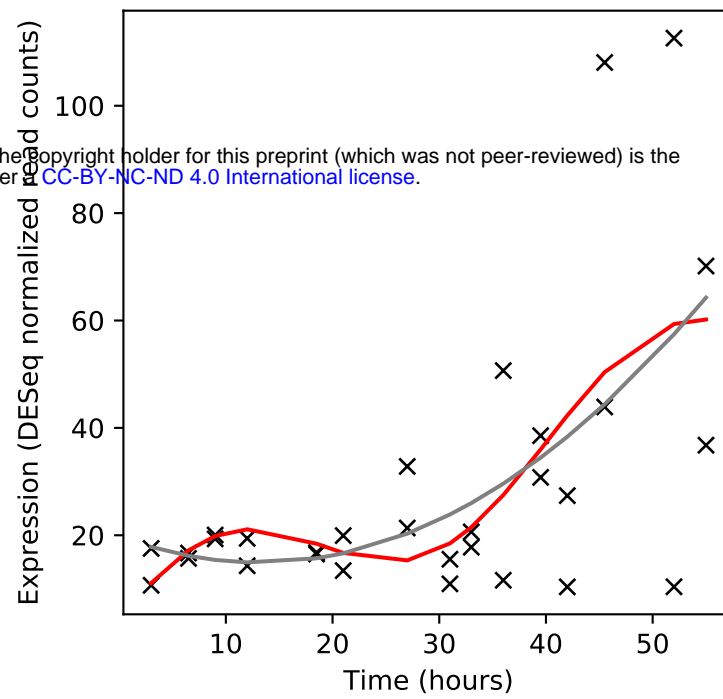
Rv2431c/PE25



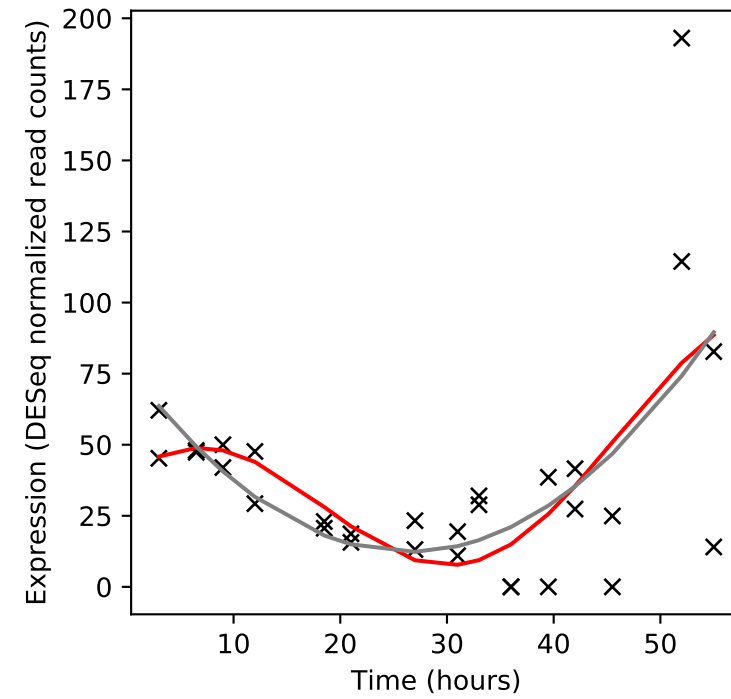
Rv2432c/-



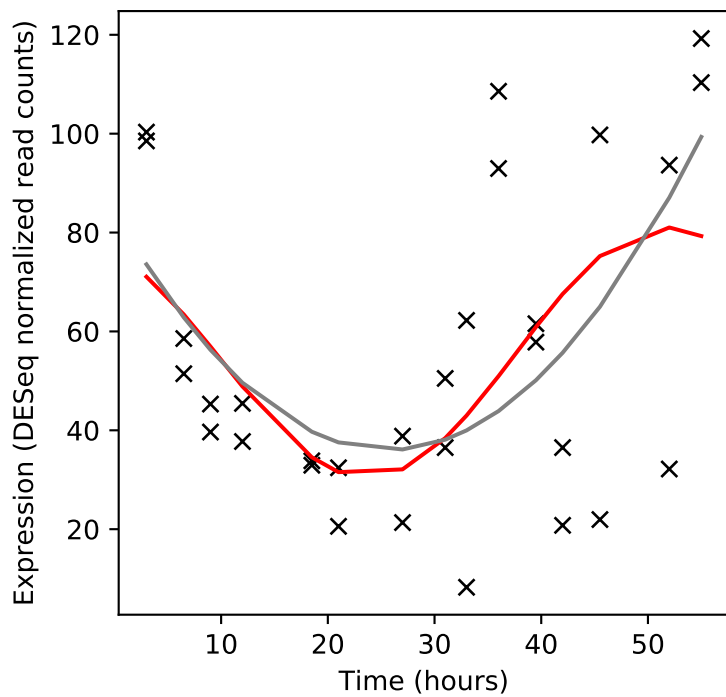
Rv2433c/-



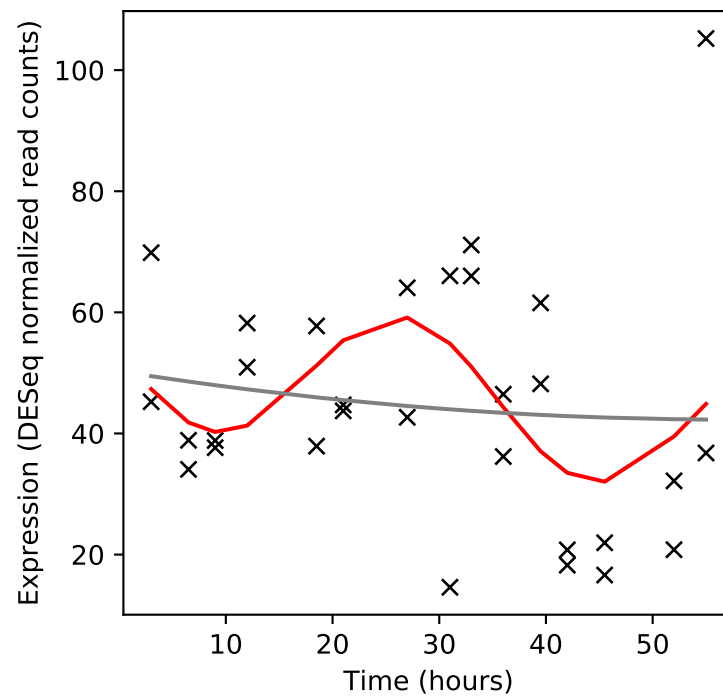
Rv2434c/-



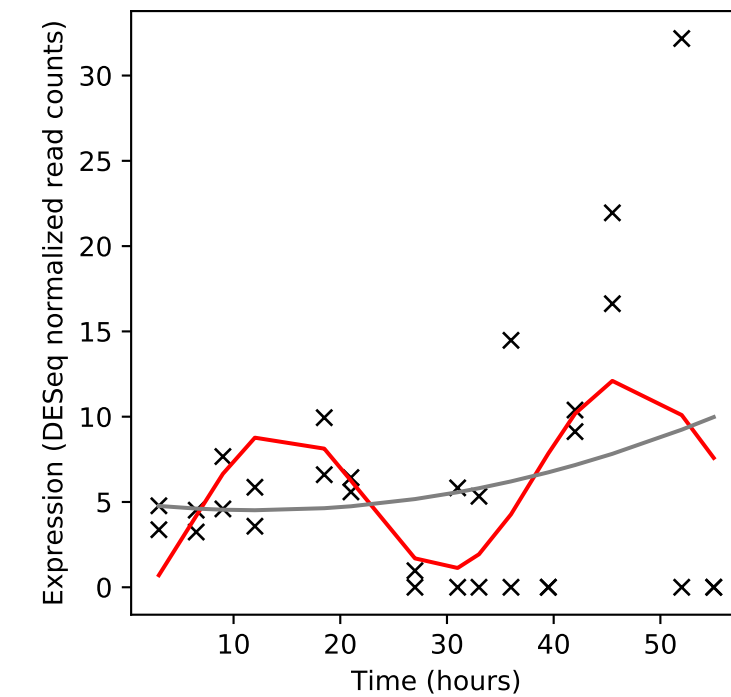
Rv2435c/-



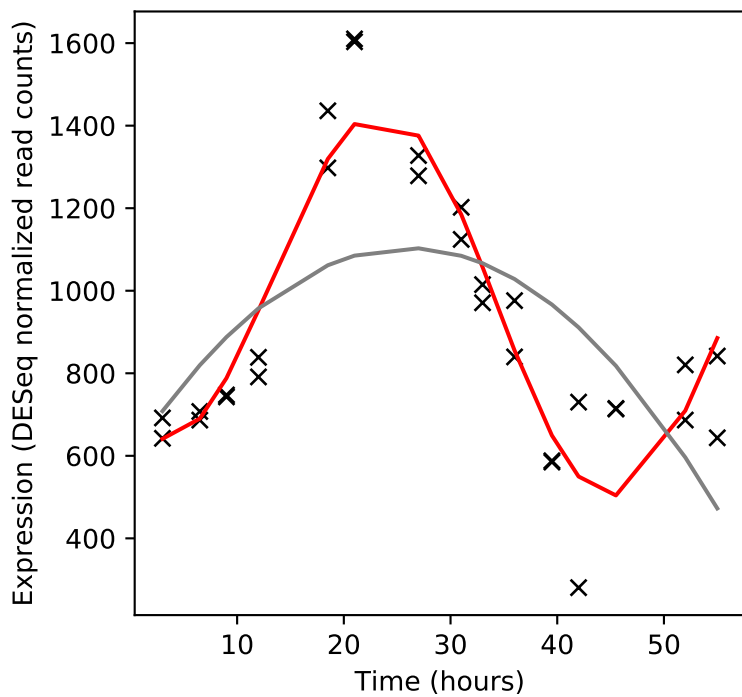
Rv2436/rbsK



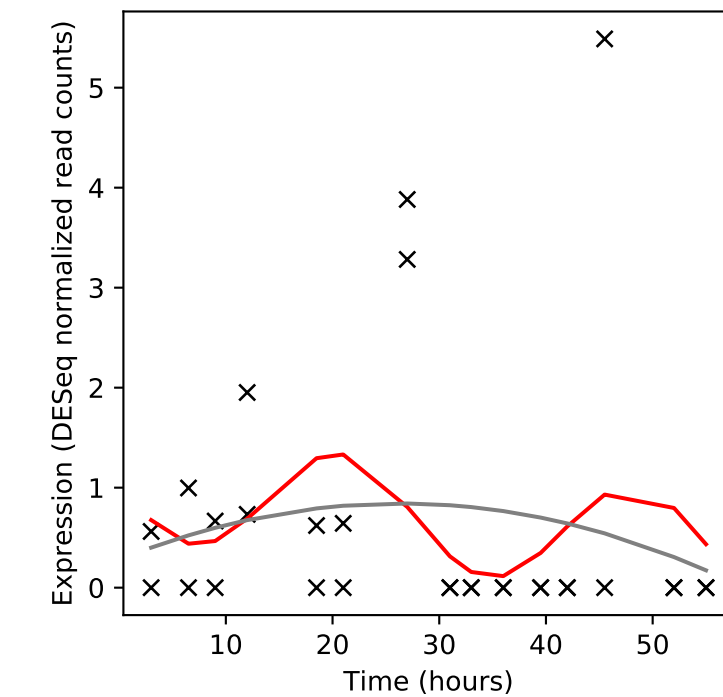
Rv2437/-



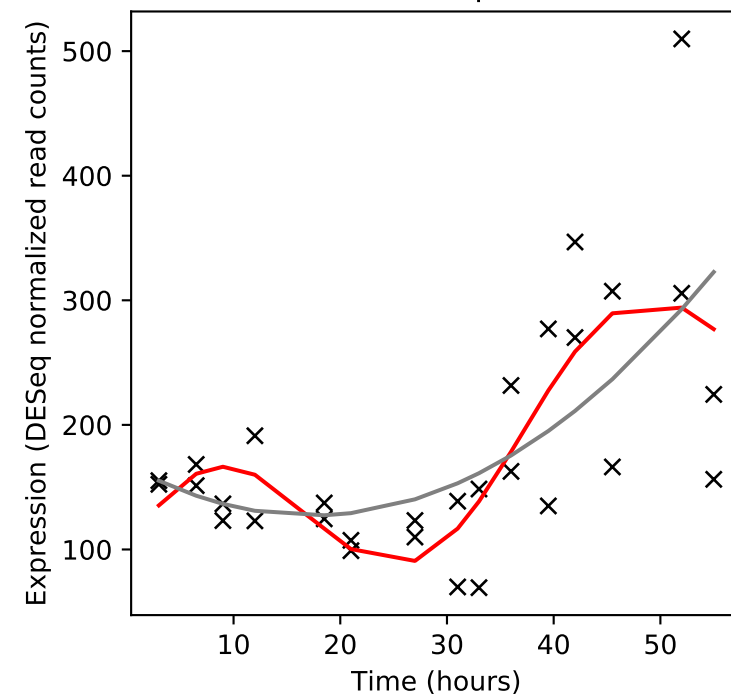
Rv2438c/nadE



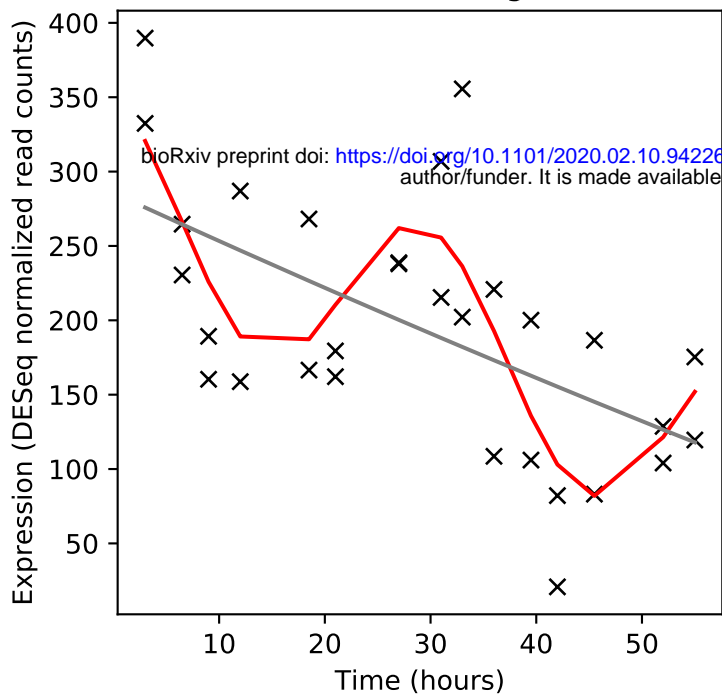
Rv2438A/-



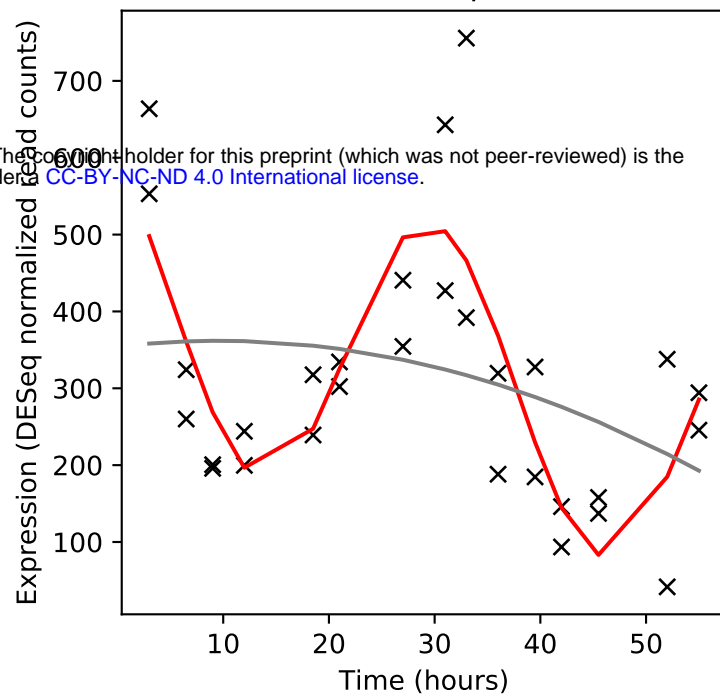
Rv2439c/proB



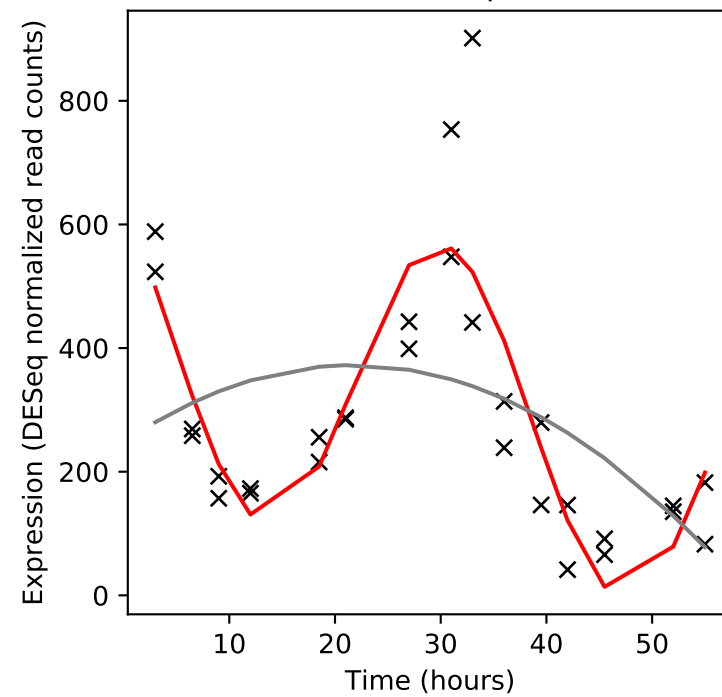
Rv2440c/obg



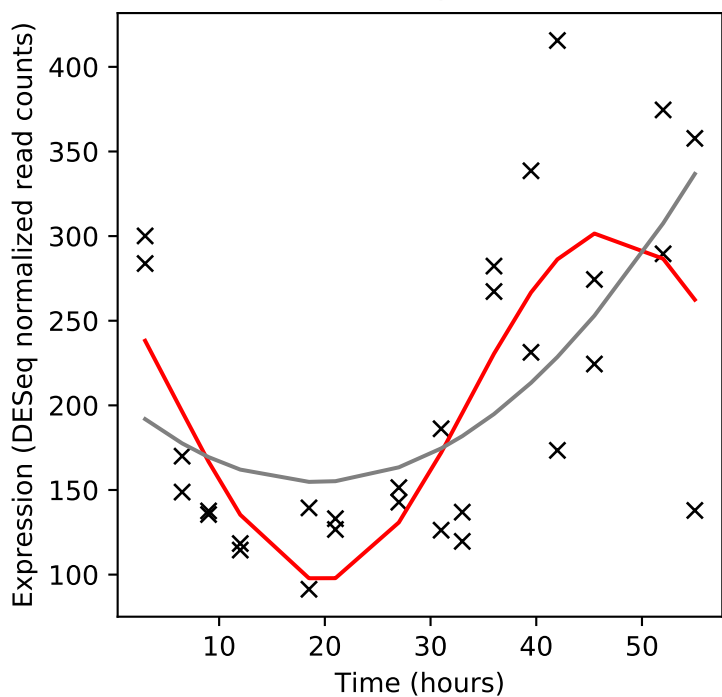
Rv2441c/rpmA



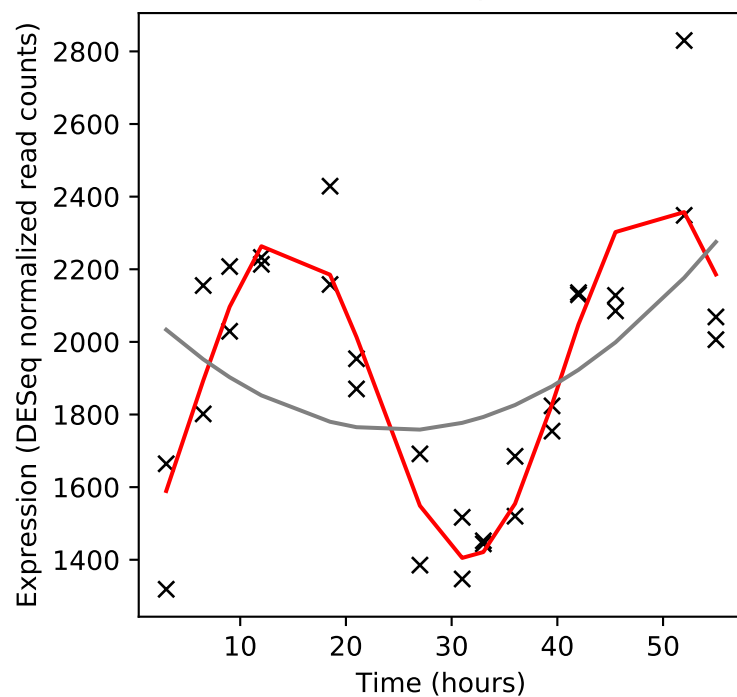
Rv2442c/rplU



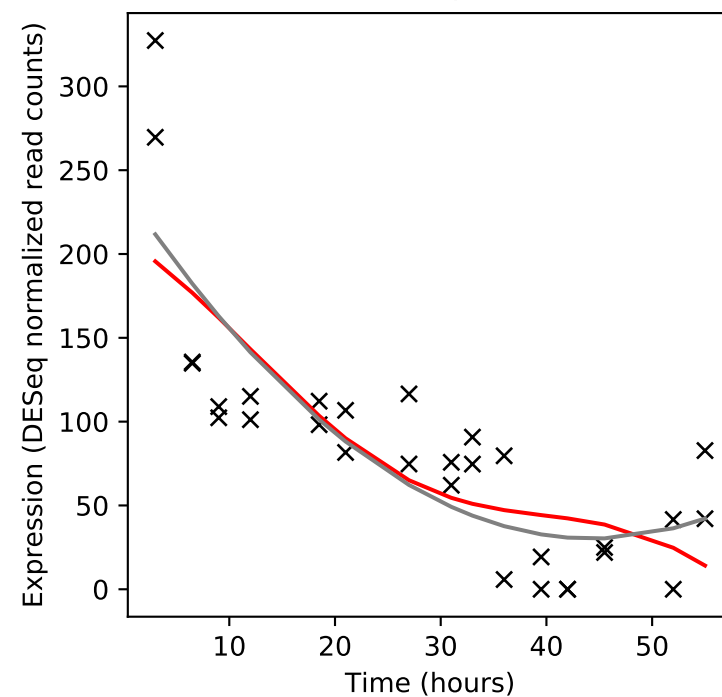
Rv2443/dctA



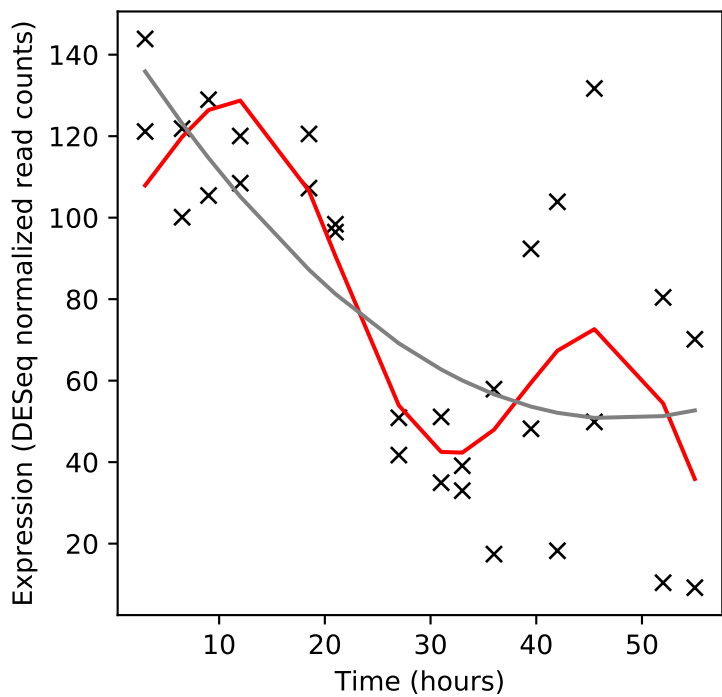
Rv2444c/rne



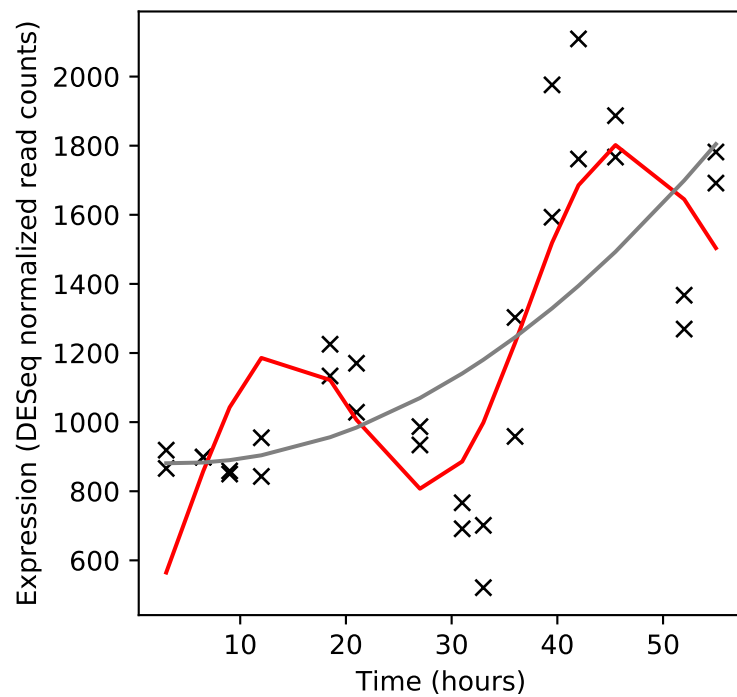
Rv2445c/ndkA



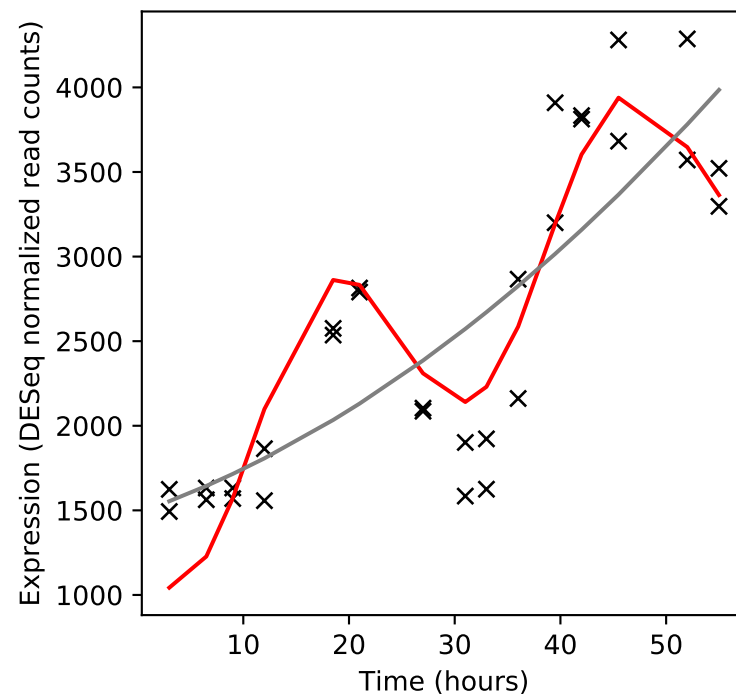
Rv2446c/-



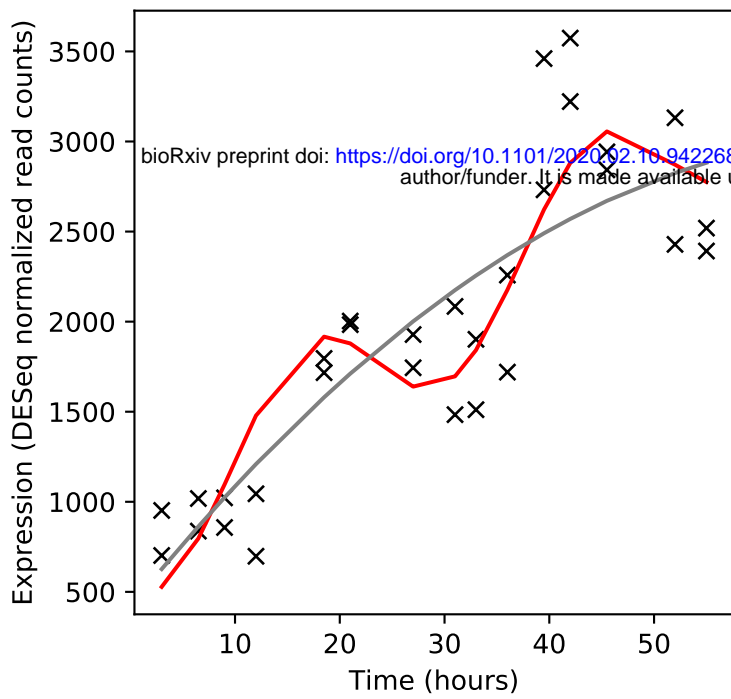
Rv2447c/foIc



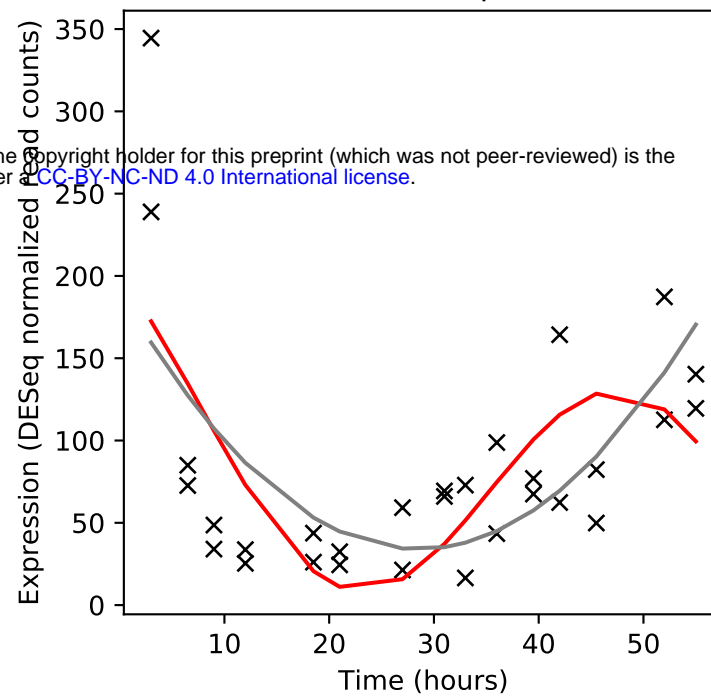
Rv2448c/valS



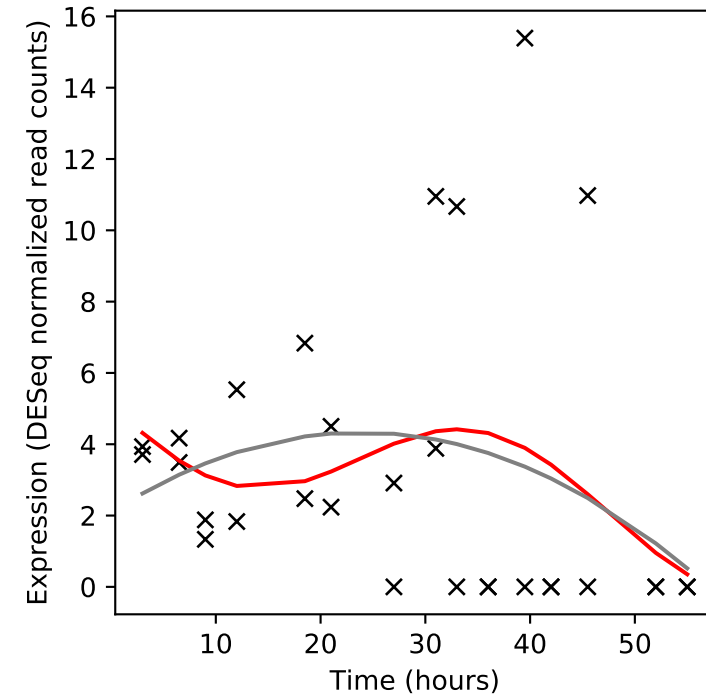
Rv2449c/-



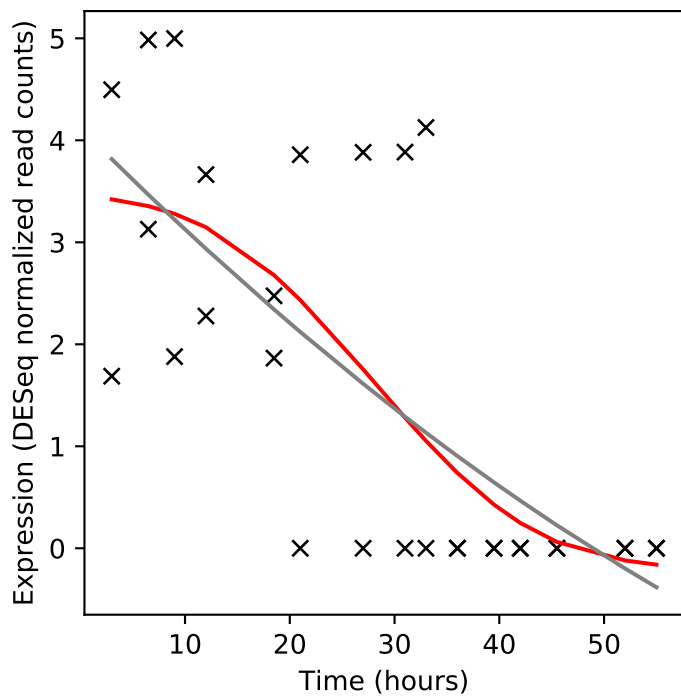
Rv2450c/rpfE



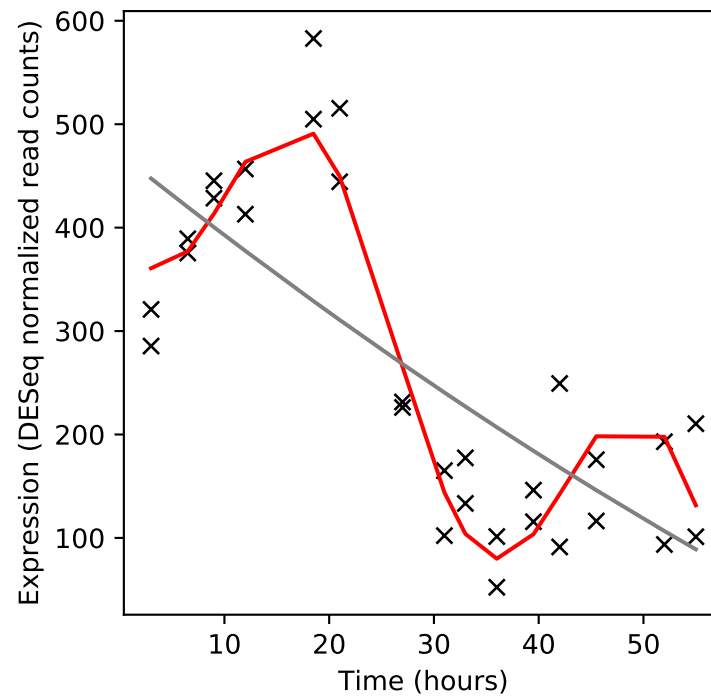
Rv2451/-



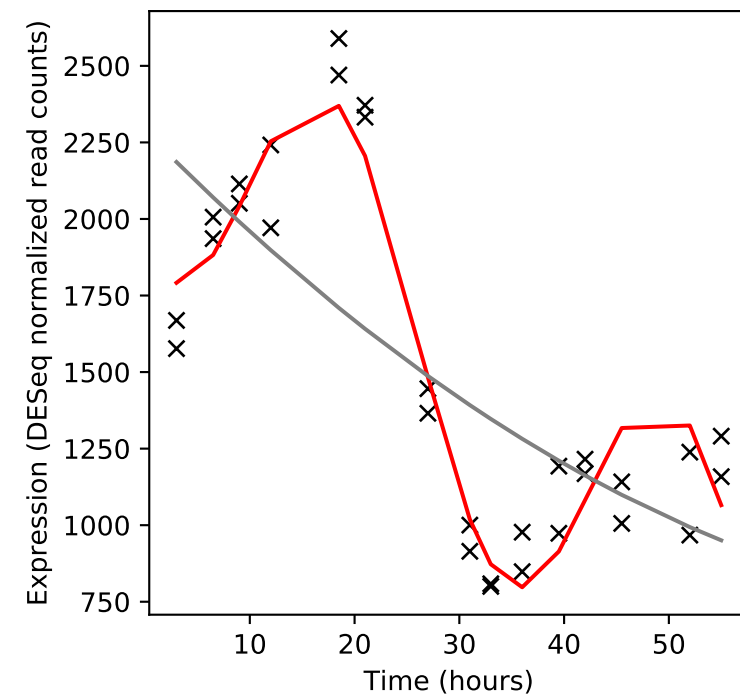
Rv2452c/-



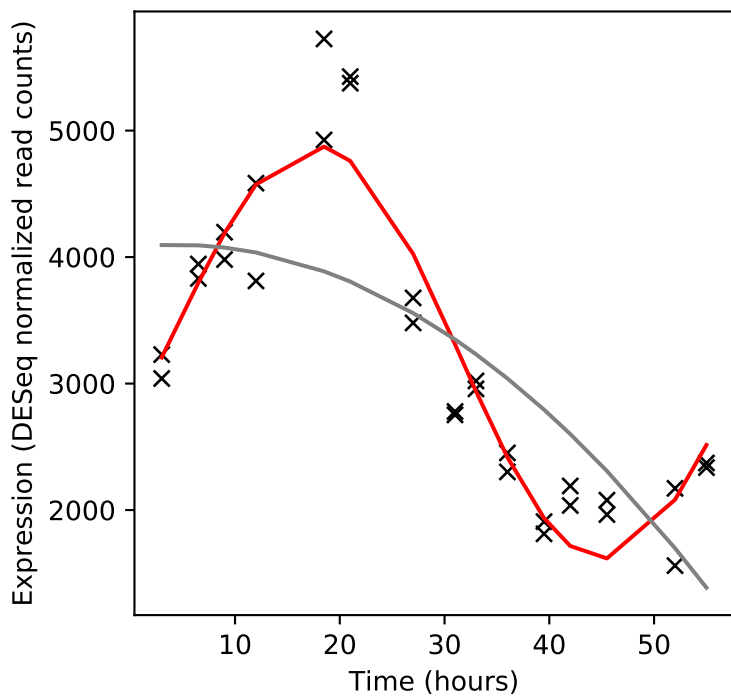
Rv2453c/mobA



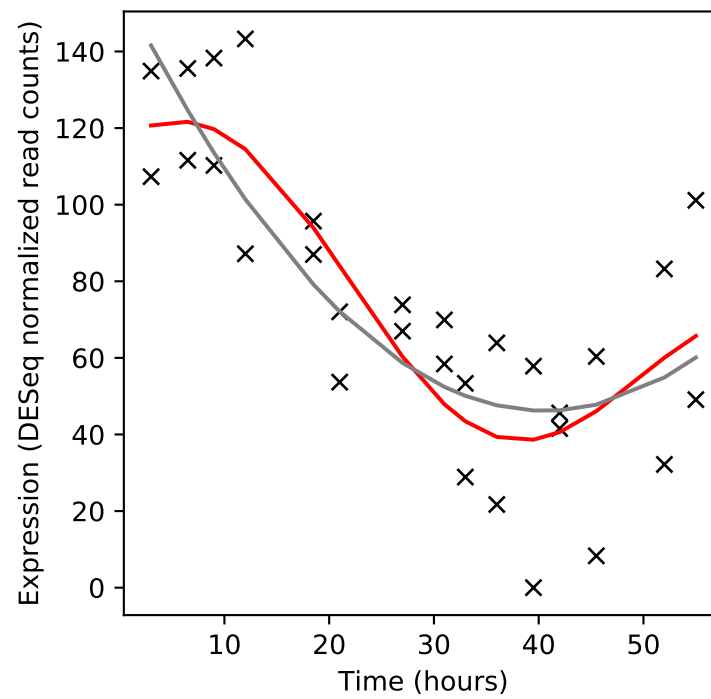
Rv2454c/-



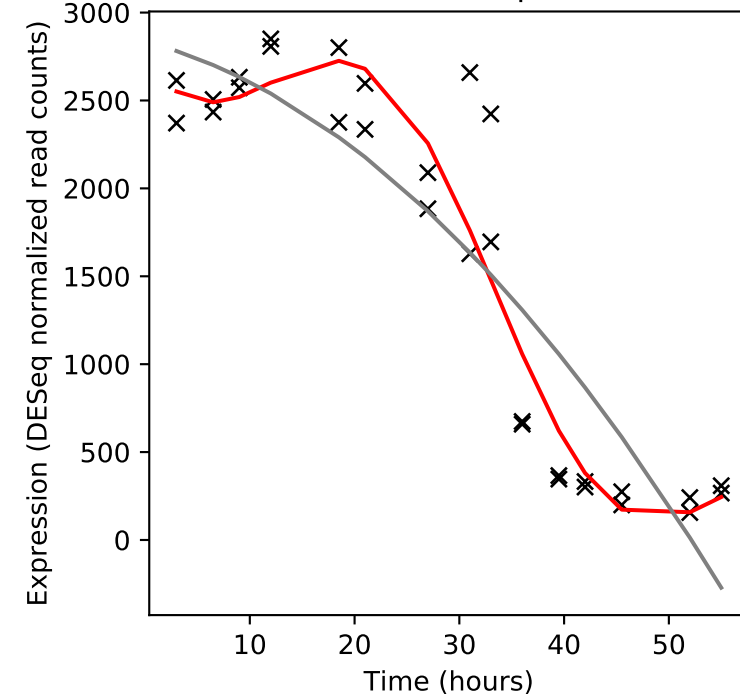
Rv2455c/-



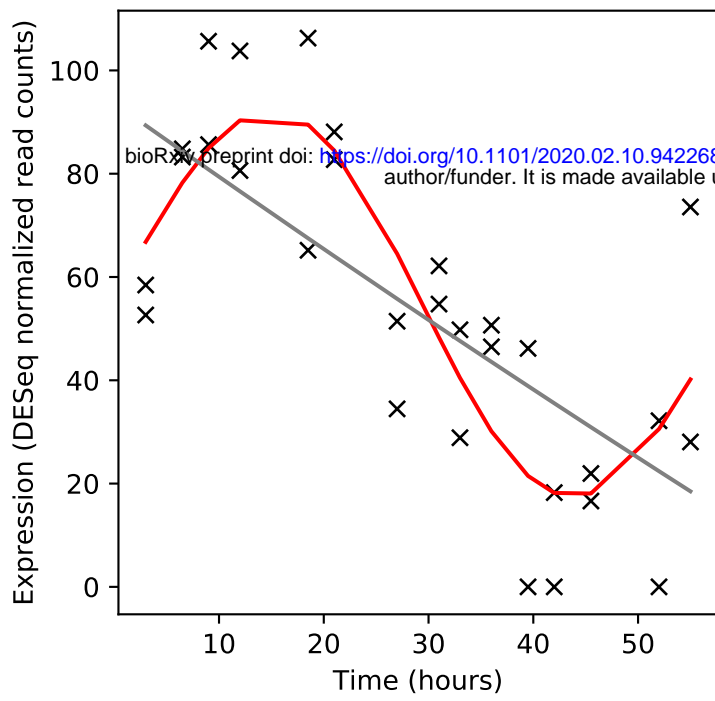
Rv2456c/-



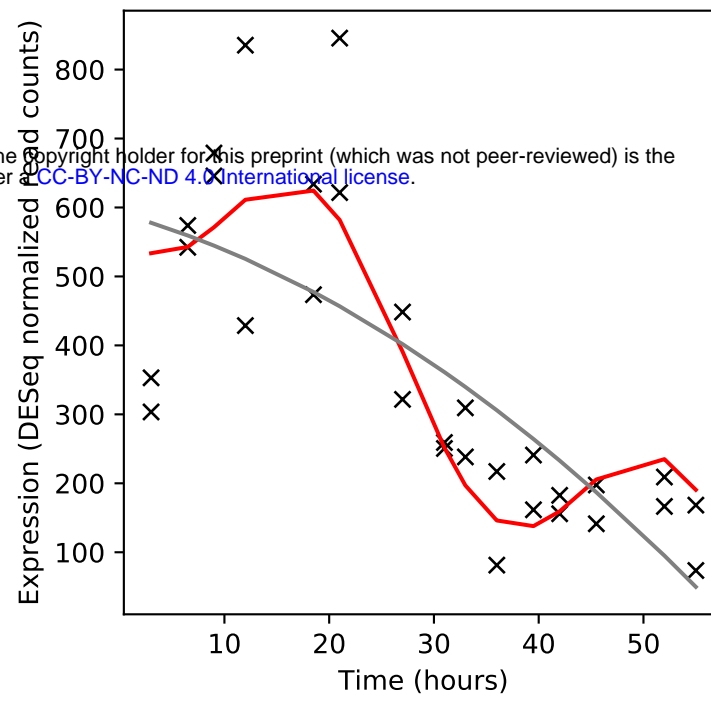
Rv2457c/clpX



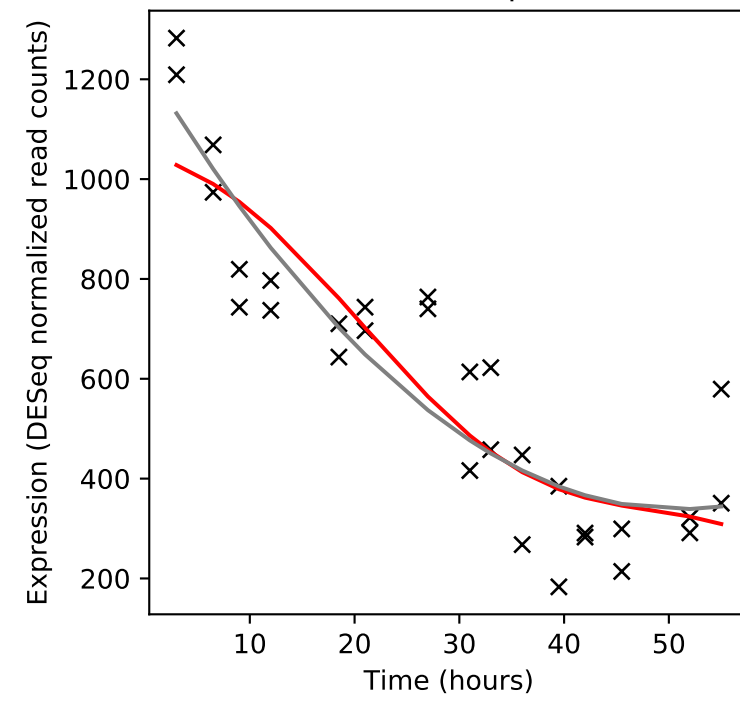
Rv2458/mmuM



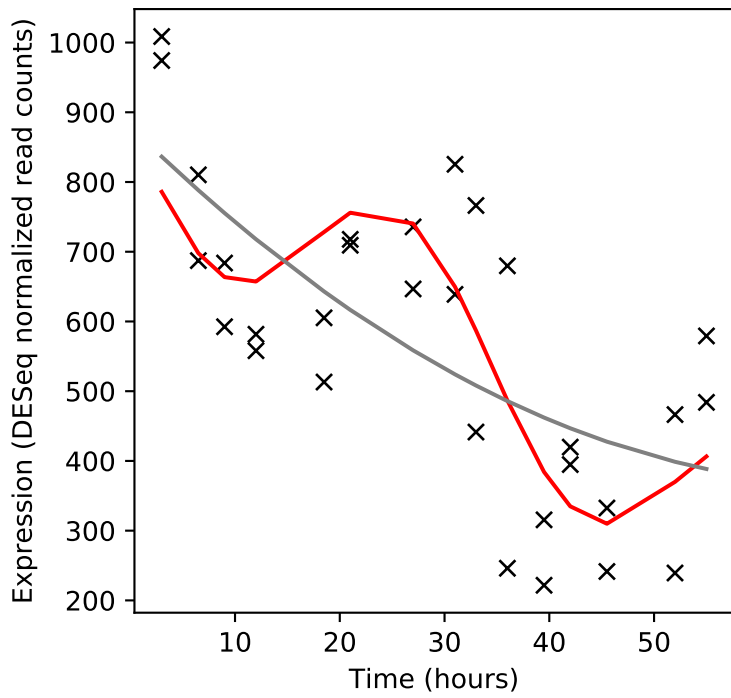
Rv2459/-



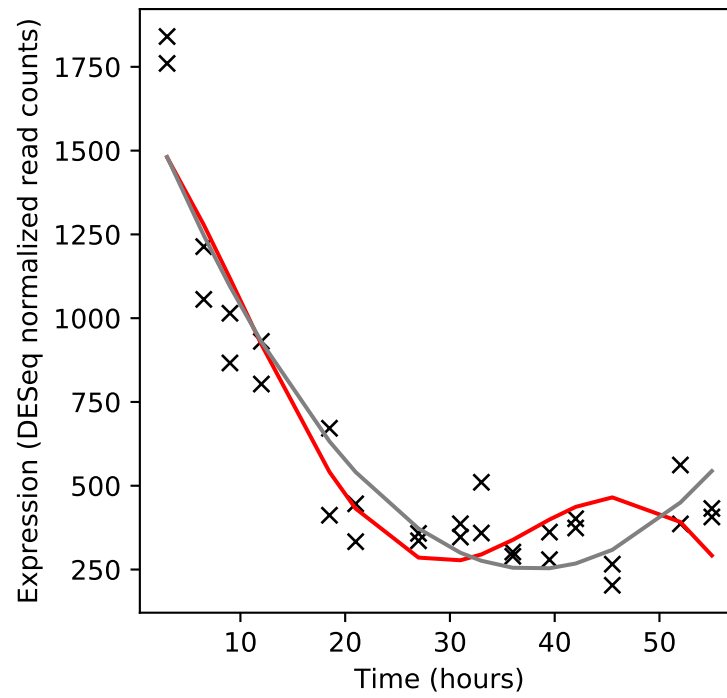
Rv2460c/clpP2



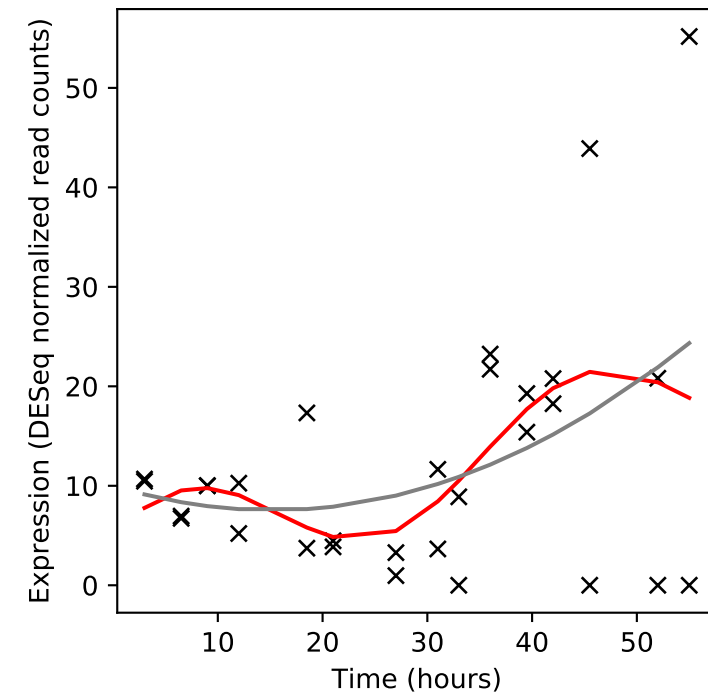
Rv2461c/clpP1



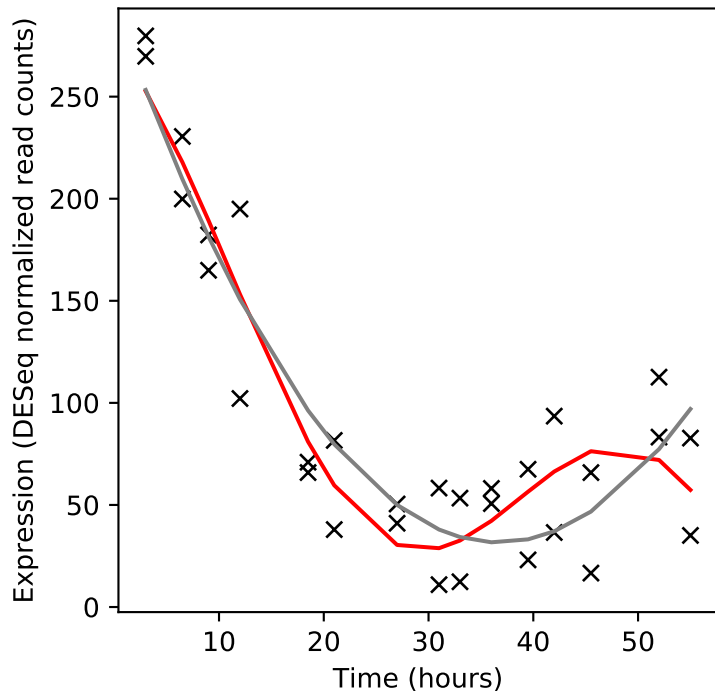
Rv2462c/tig



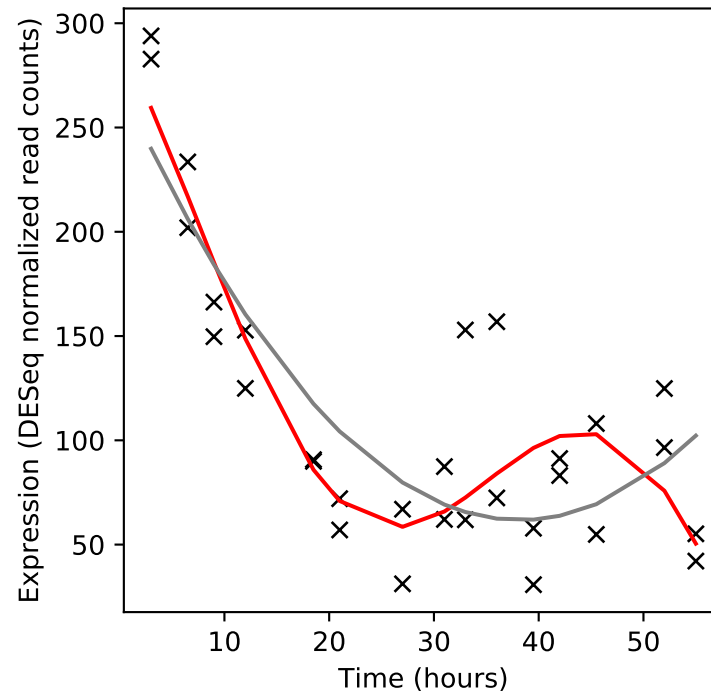
Rv2463/lipP



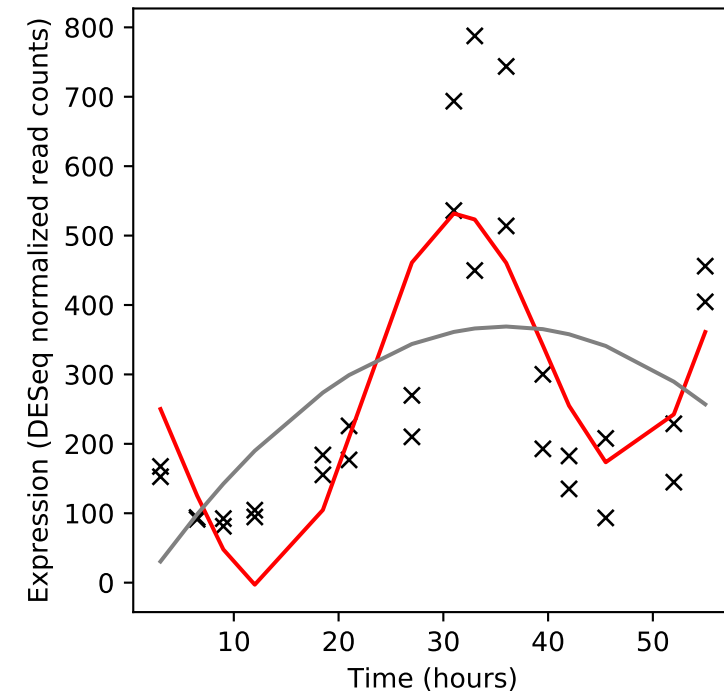
Rv2464c/-



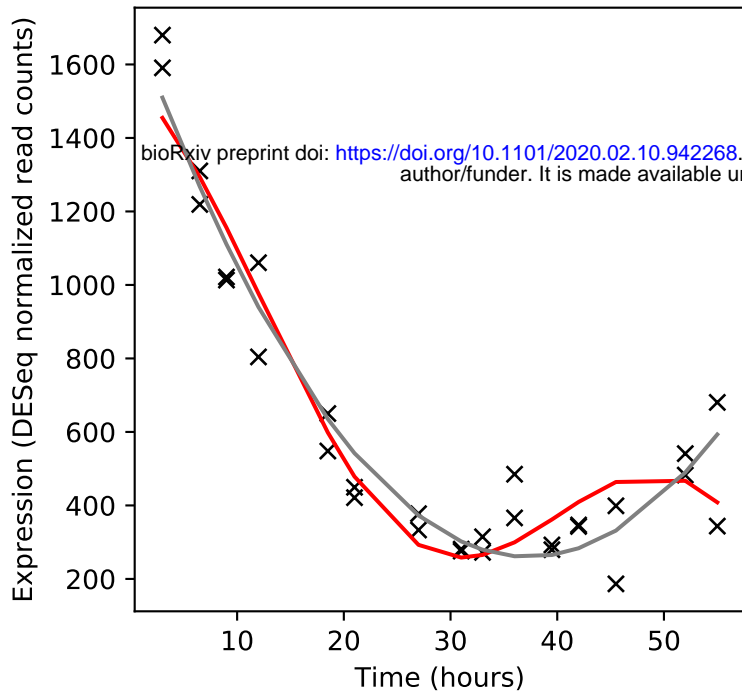
Rv2465c/rpiB



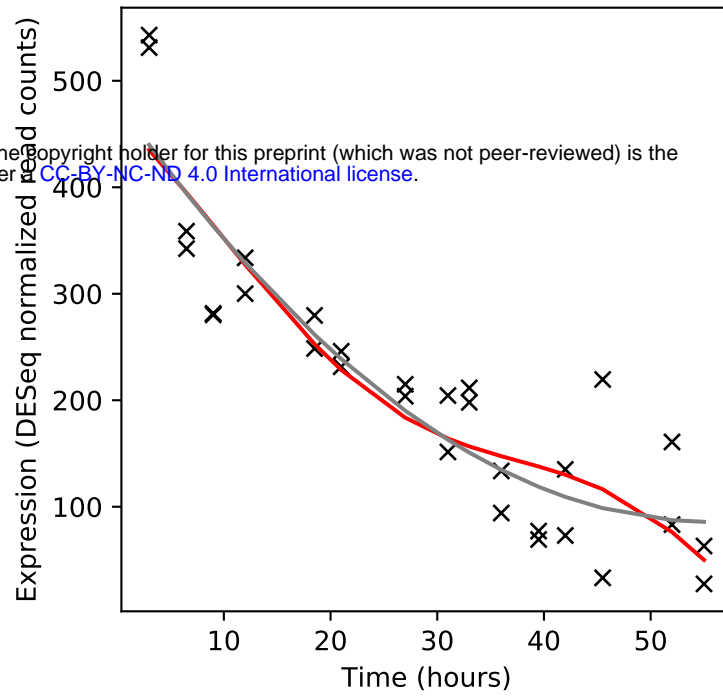
Rv2466c/-



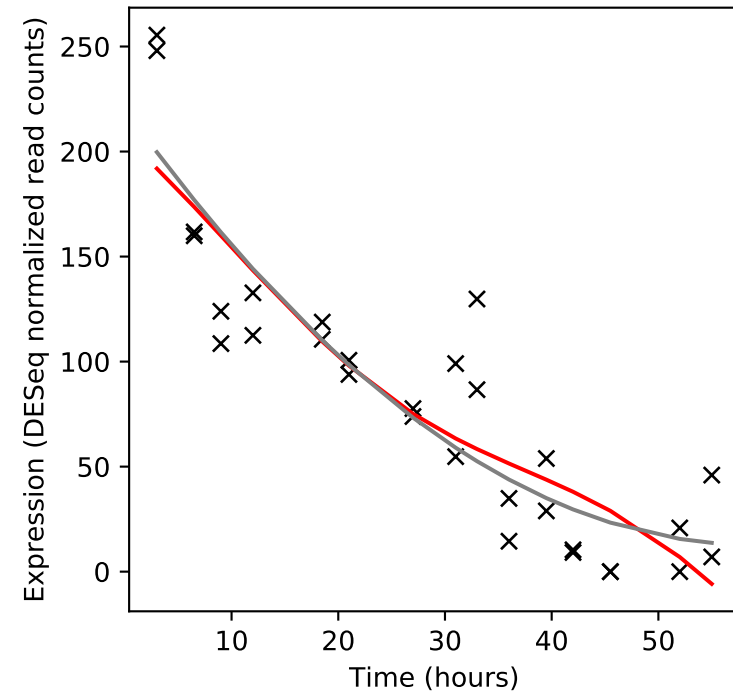
Rv2467/pepN



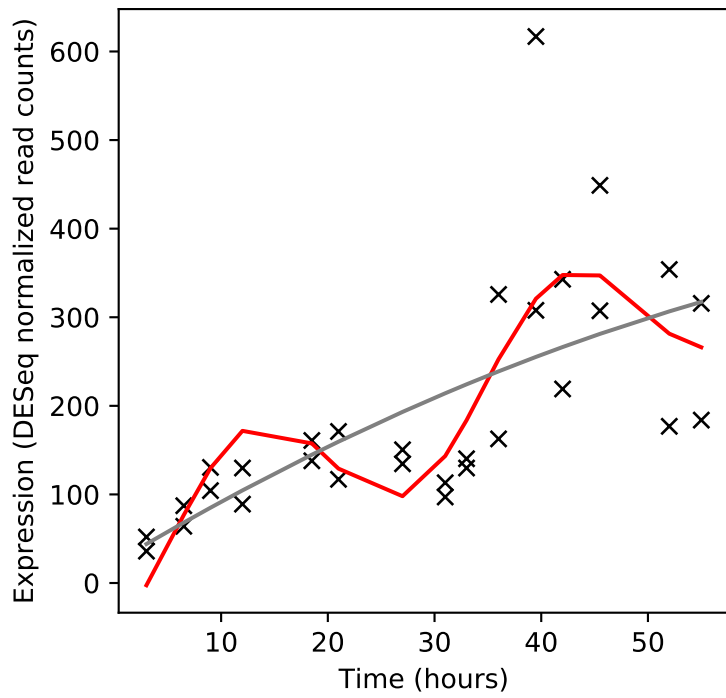
Rv2468c/-



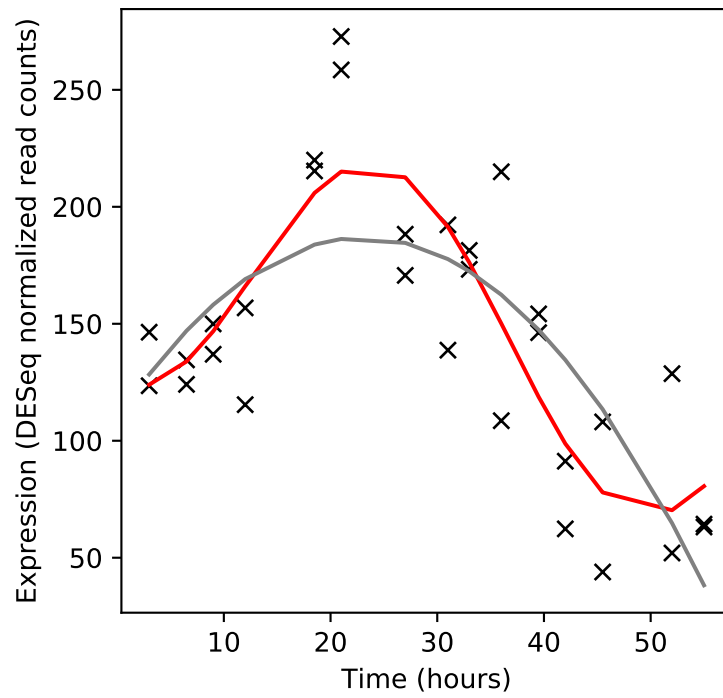
Rv2468A/-



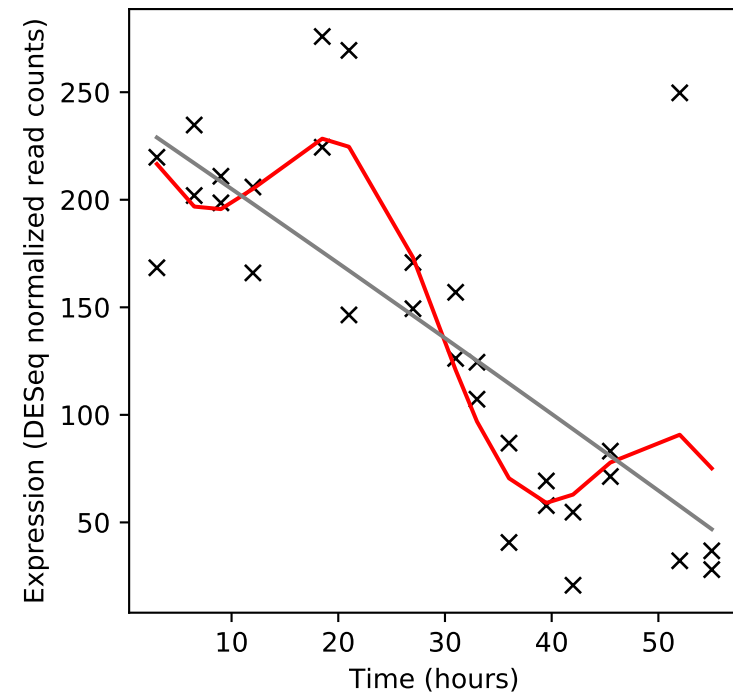
Rv2469c/-



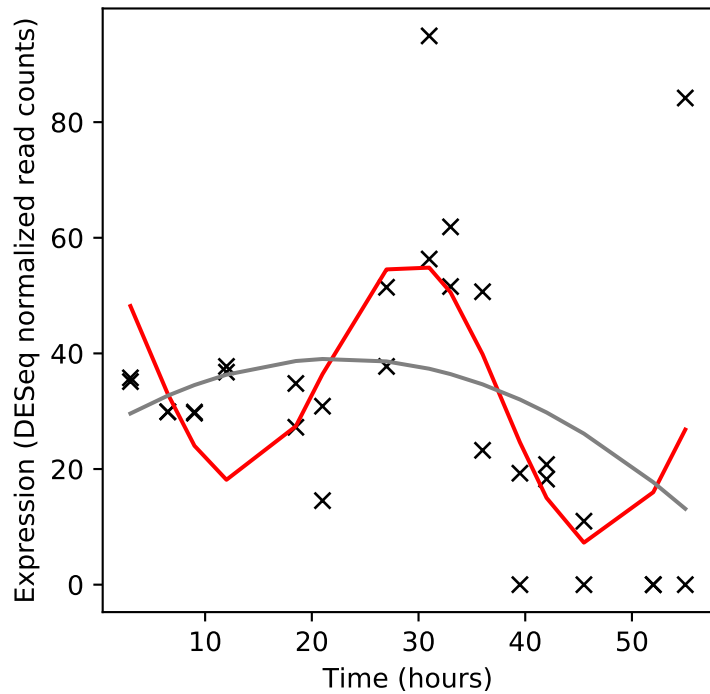
Rv2470/glbO



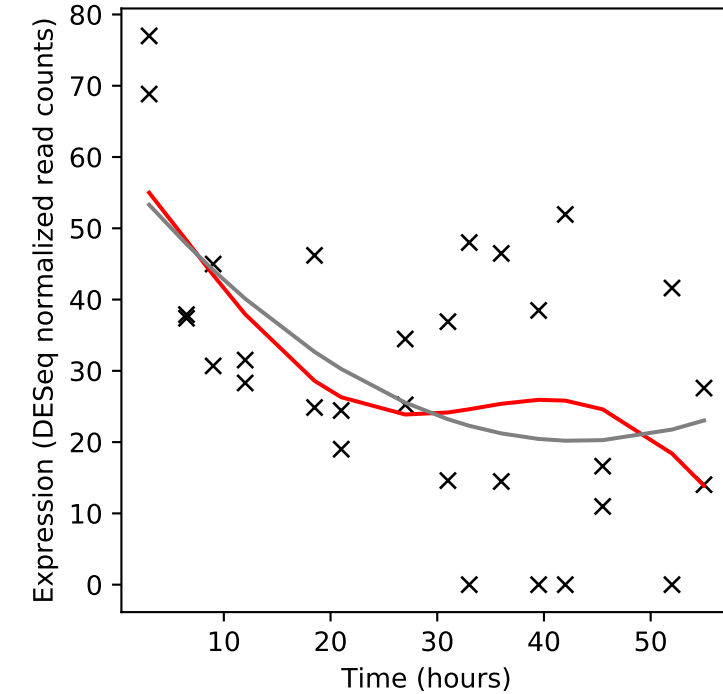
Rv2471/agIA



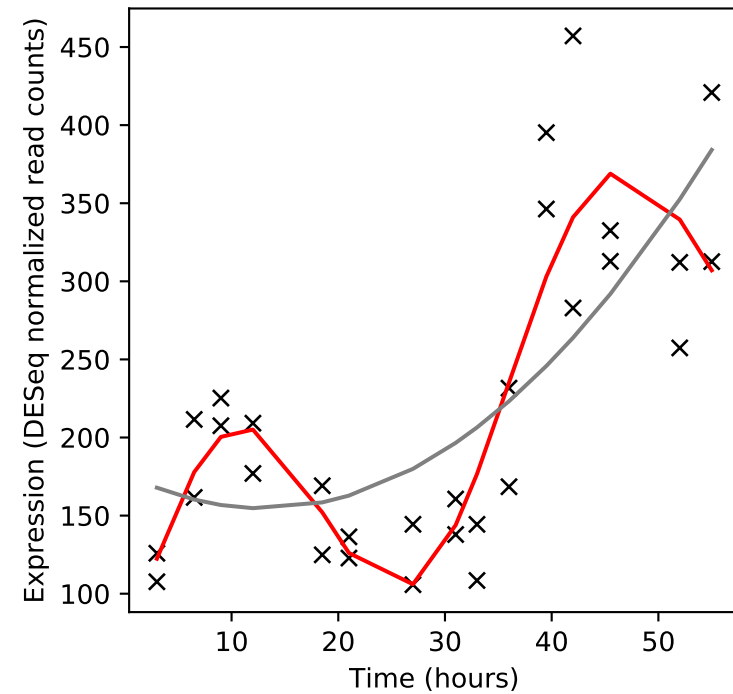
Rv2472/-



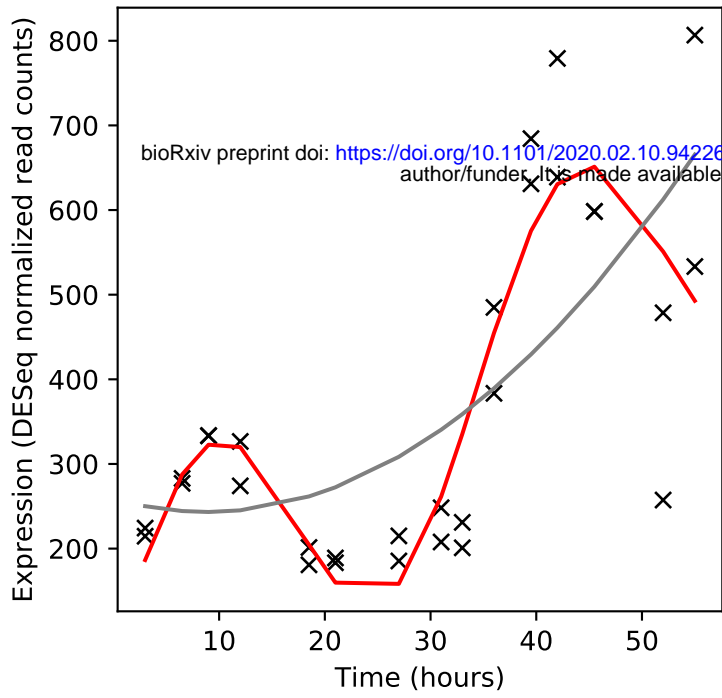
Rv2473/-



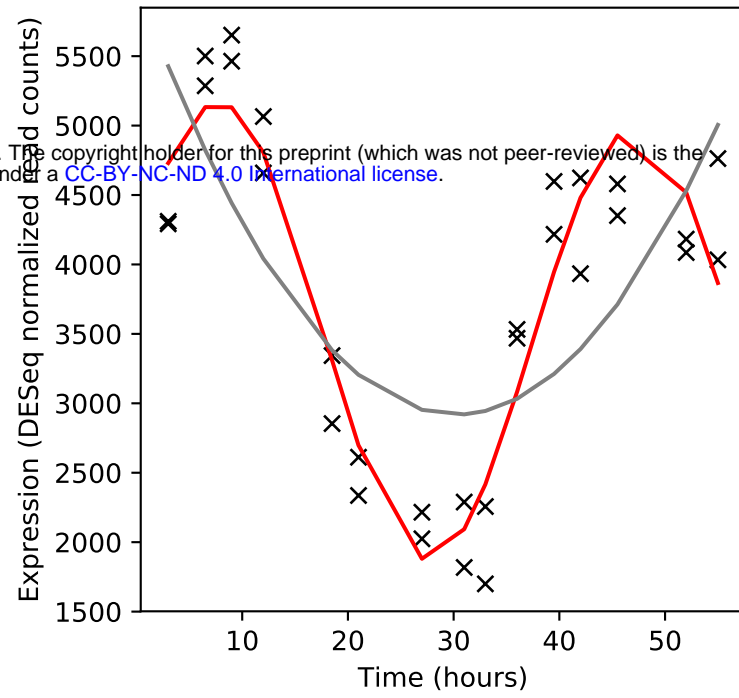
Rv2474c/-



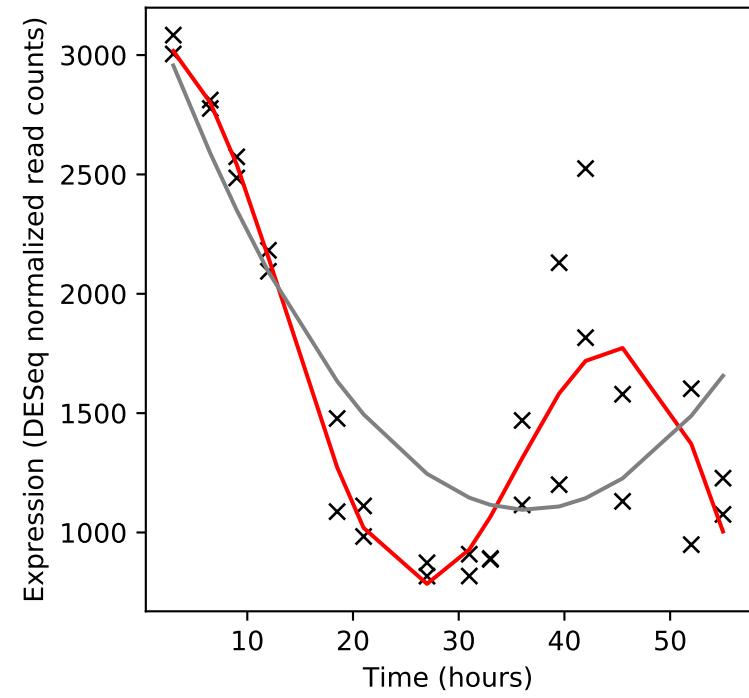
Rv2475c/-



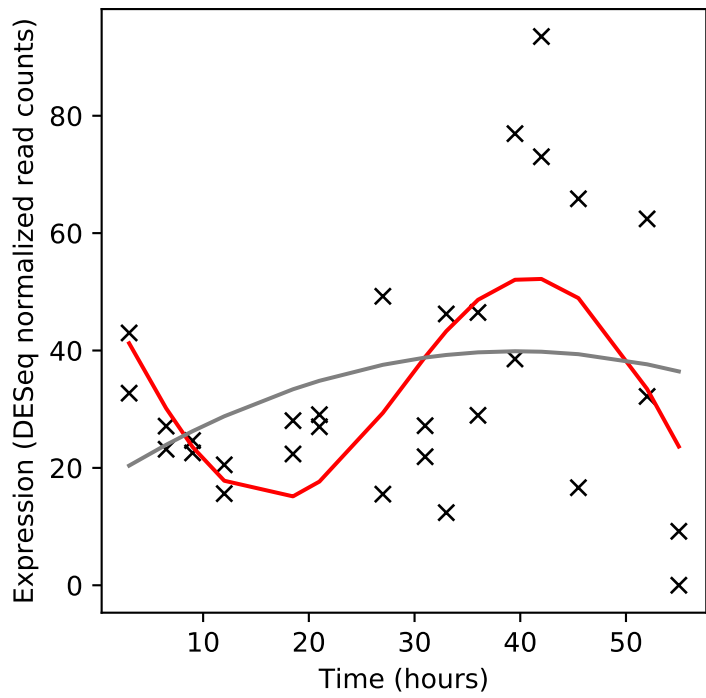
Rv2476c/gdh



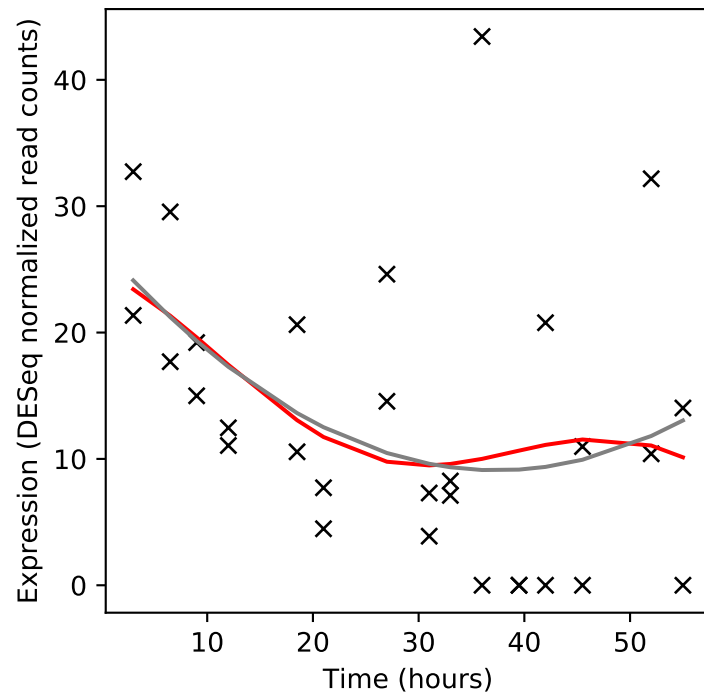
Rv2477c/-



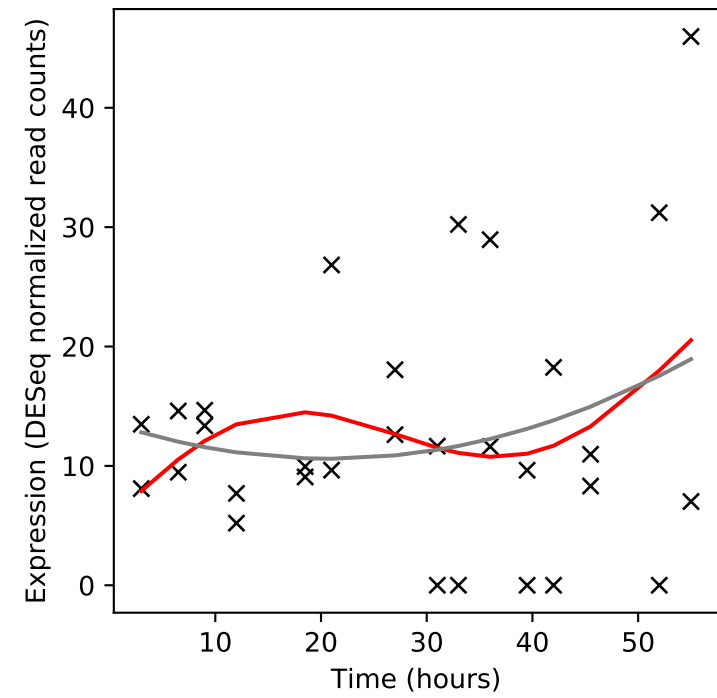
Rv2478c/-



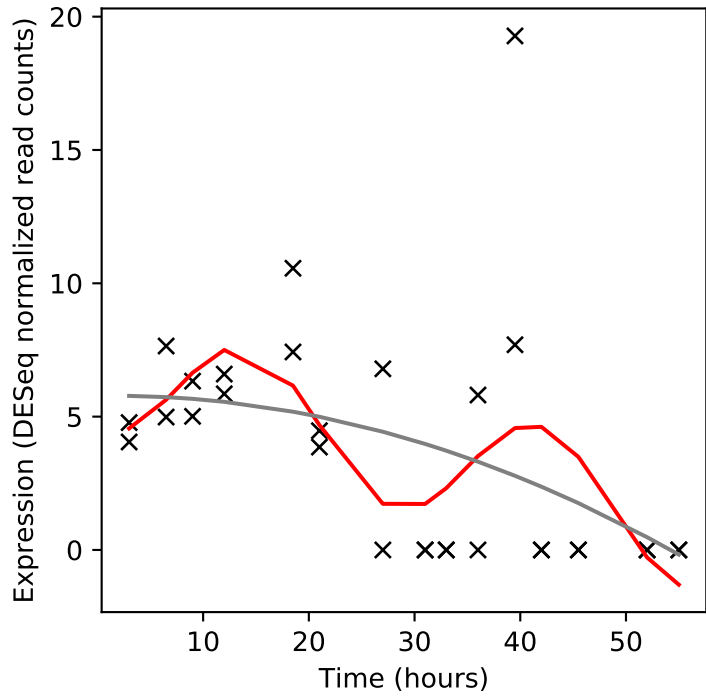
Rv2479c/-



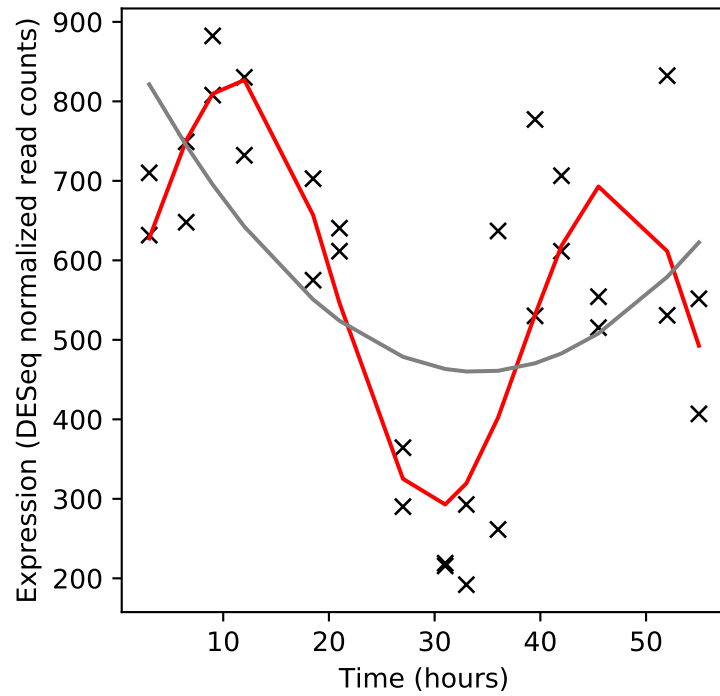
Rv2480c/-



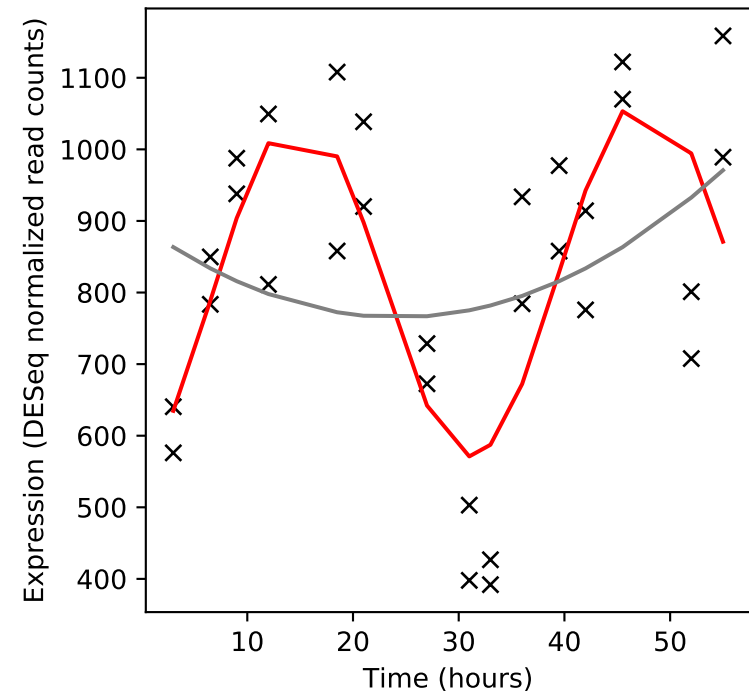
Rv2481c/-



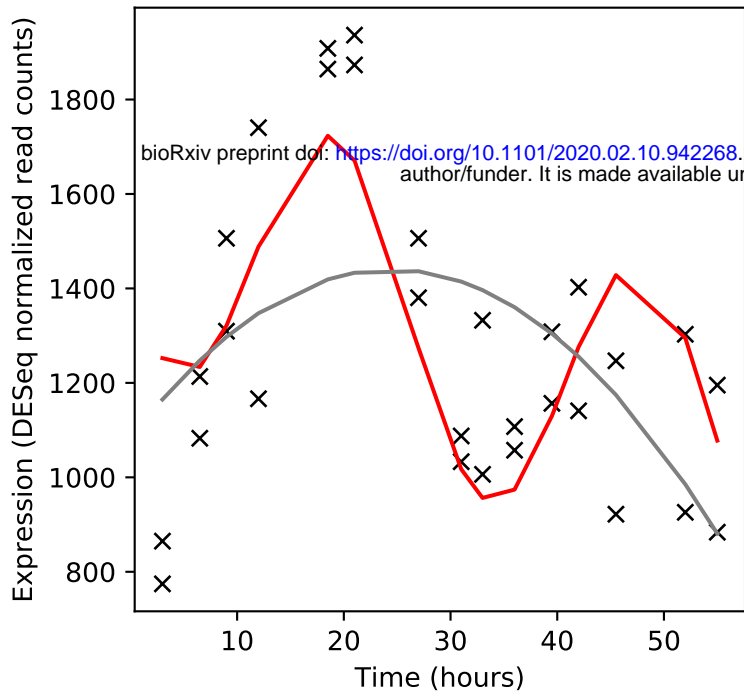
Rv2482c/plsB2



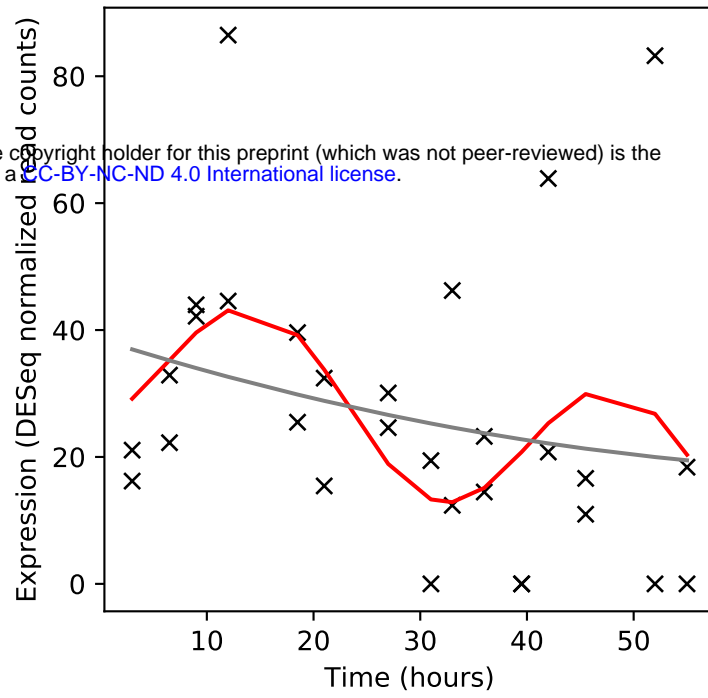
Rv2483c/plsC



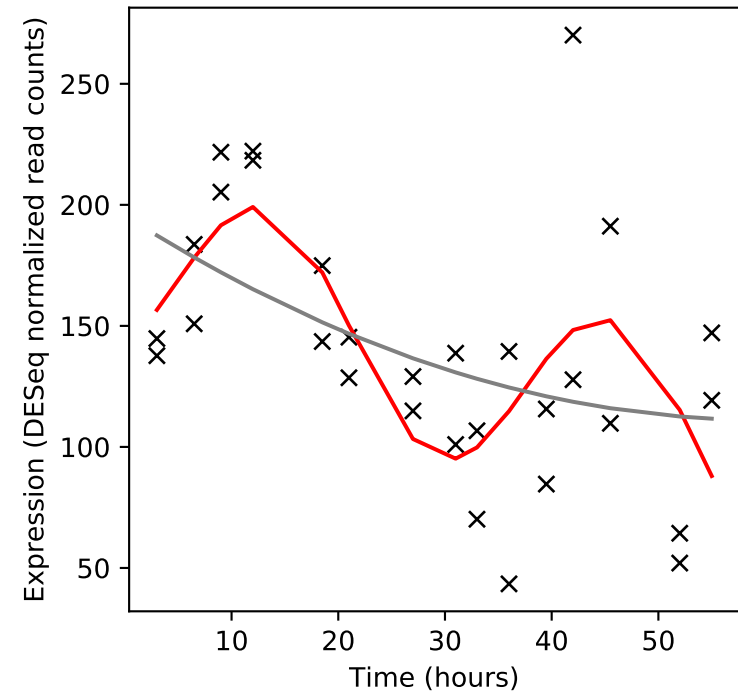
Rv2484c/-



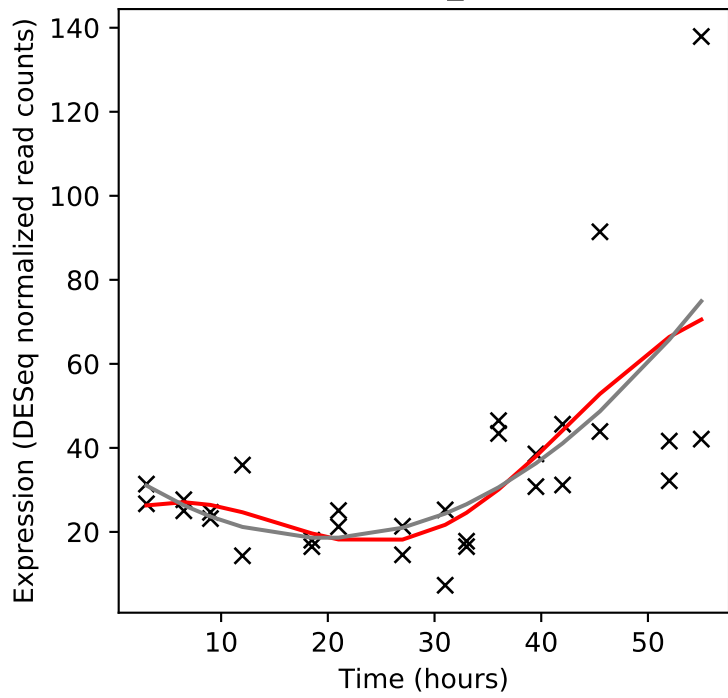
Rv2485c/lipQ



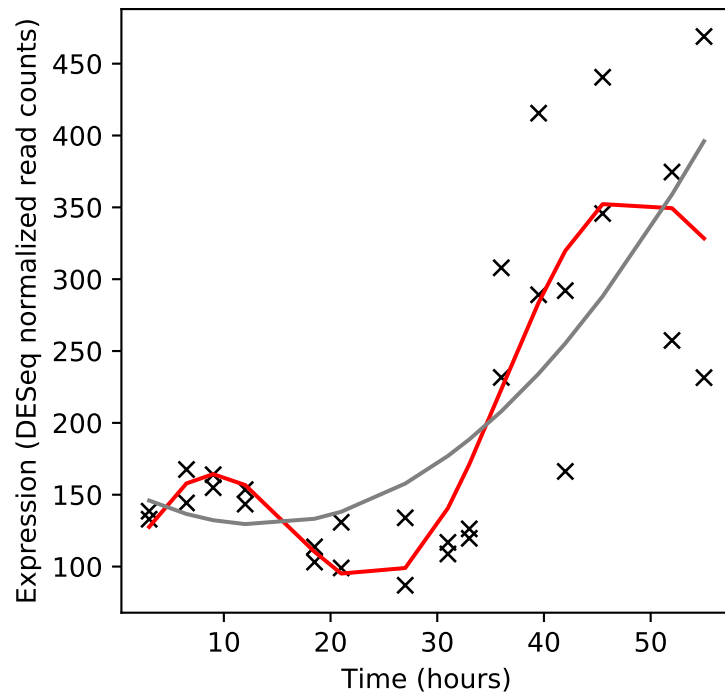
Rv2486/echA14



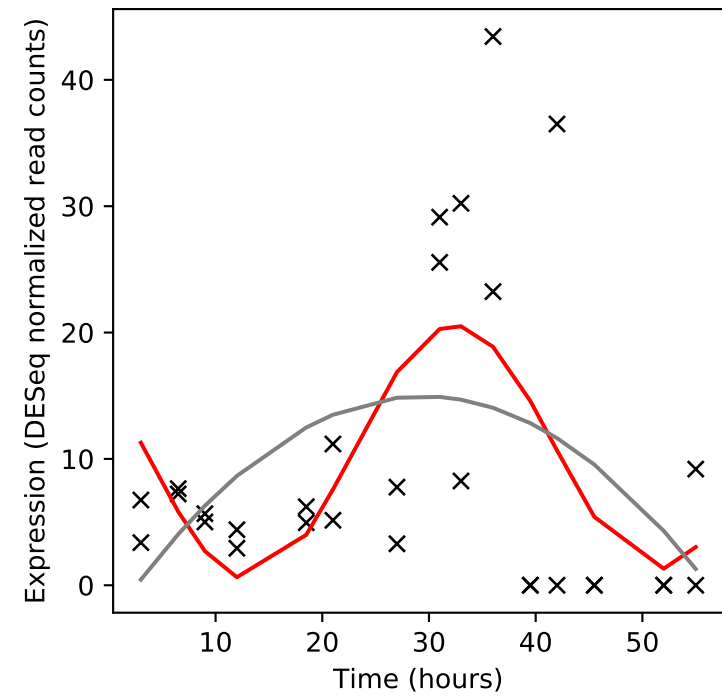
Rv2487c/PE_PGRS42



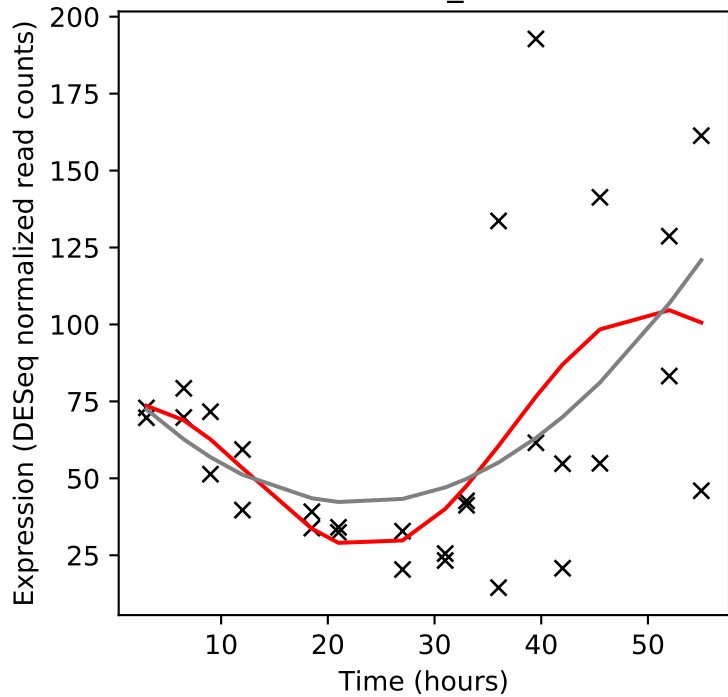
Rv2488c/-



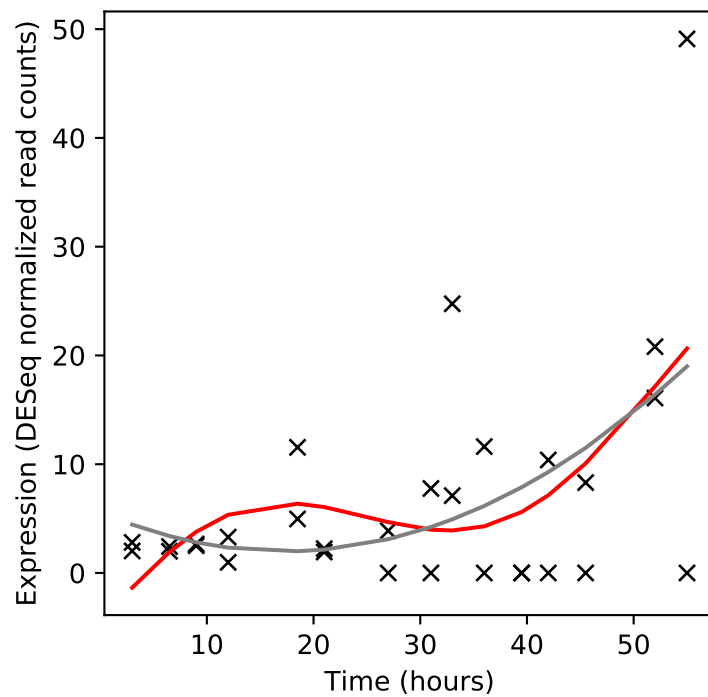
Rv2489c/-



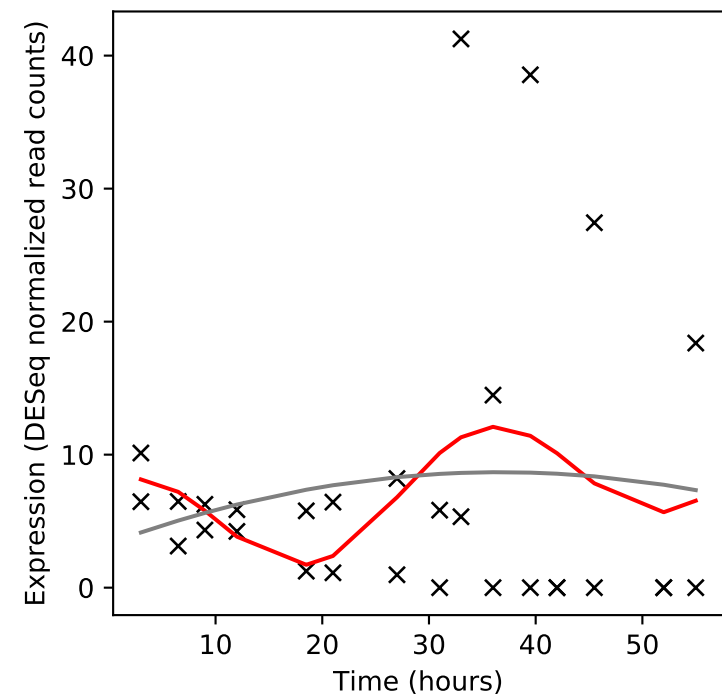
Rv2490c/PE_PGRS43



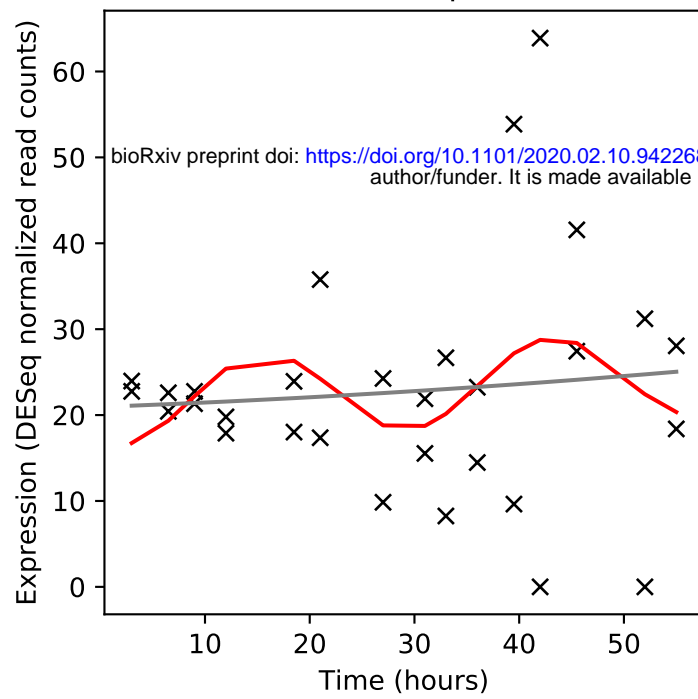
Rv2491/-



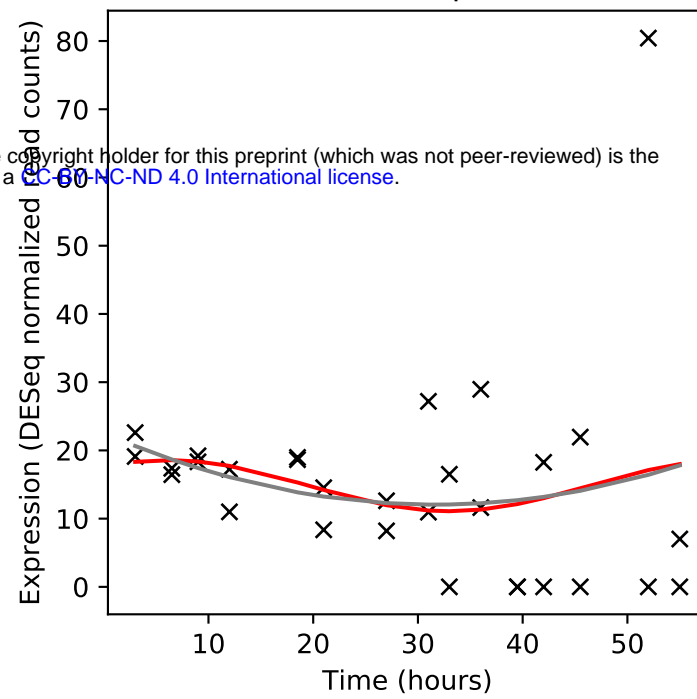
Rv2492/-



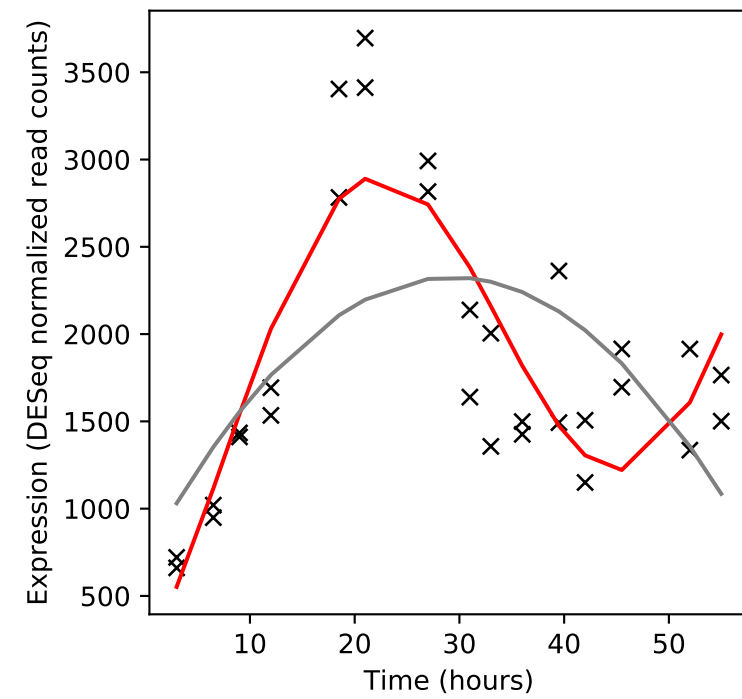
Rv2493/vapB38



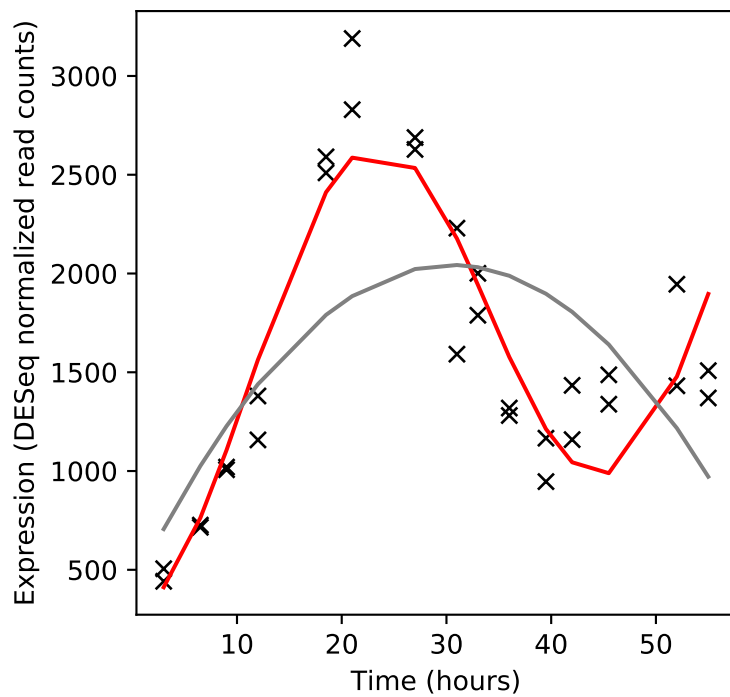
Rv2494/vapC38



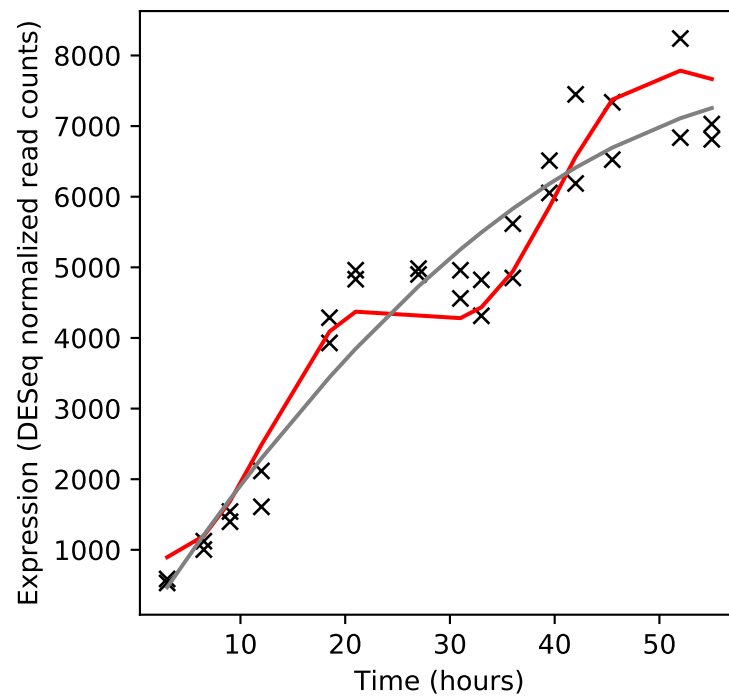
Rv2495c/bkdC



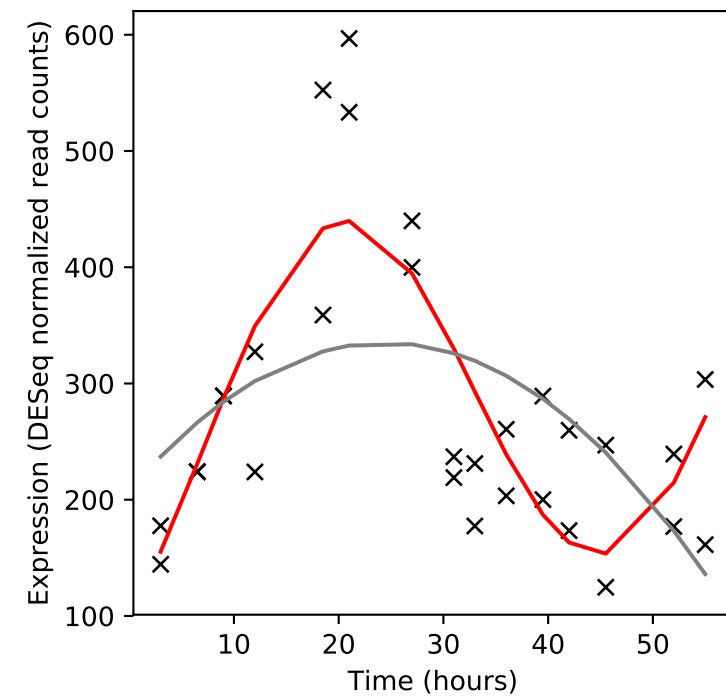
Rv2496c/bkdB



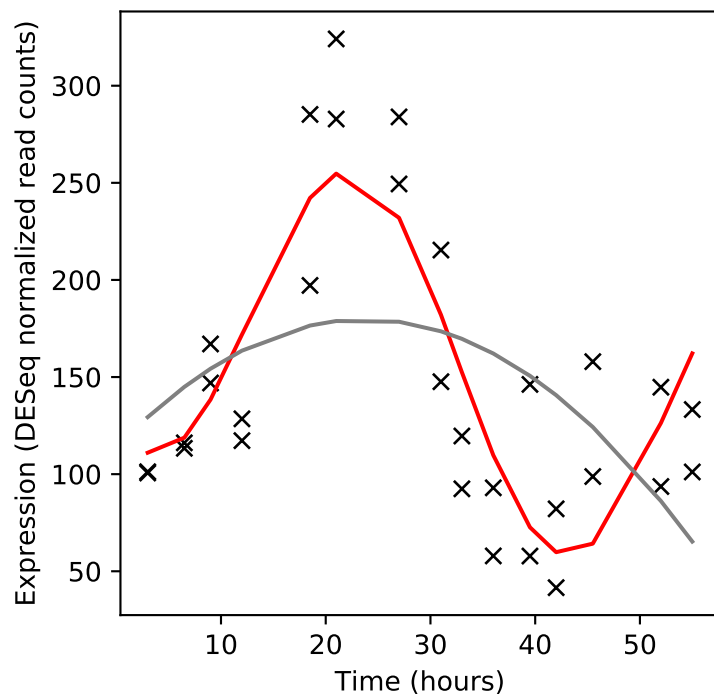
Rv2497c/bkdA



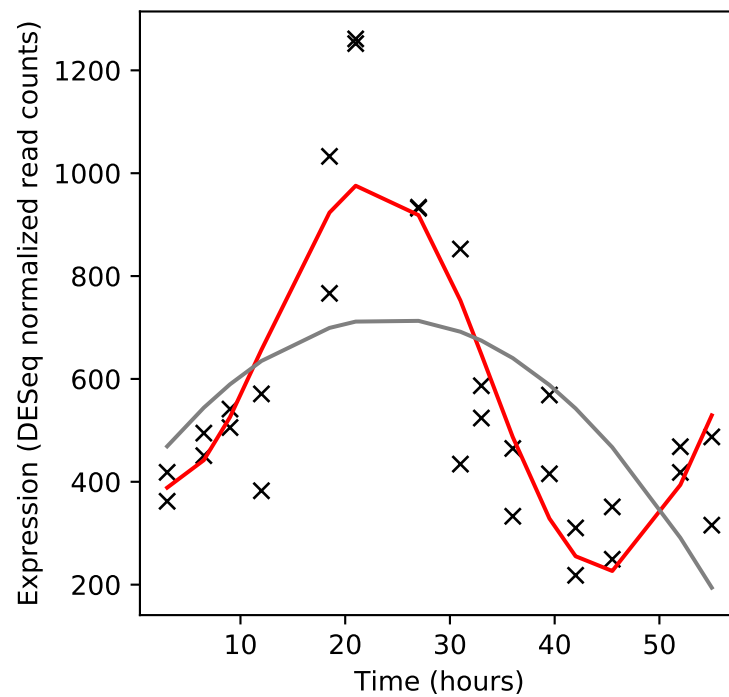
Rv2498c/citE



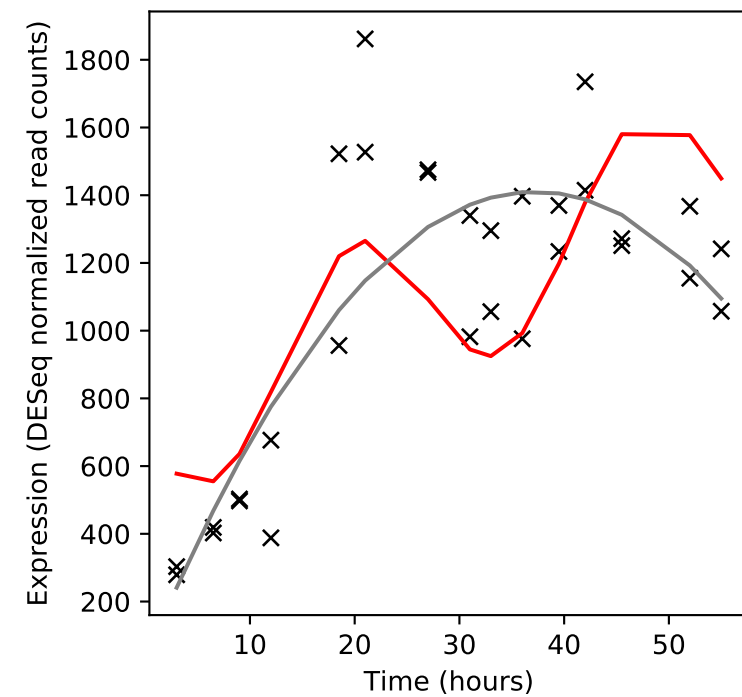
Rv2499c/-



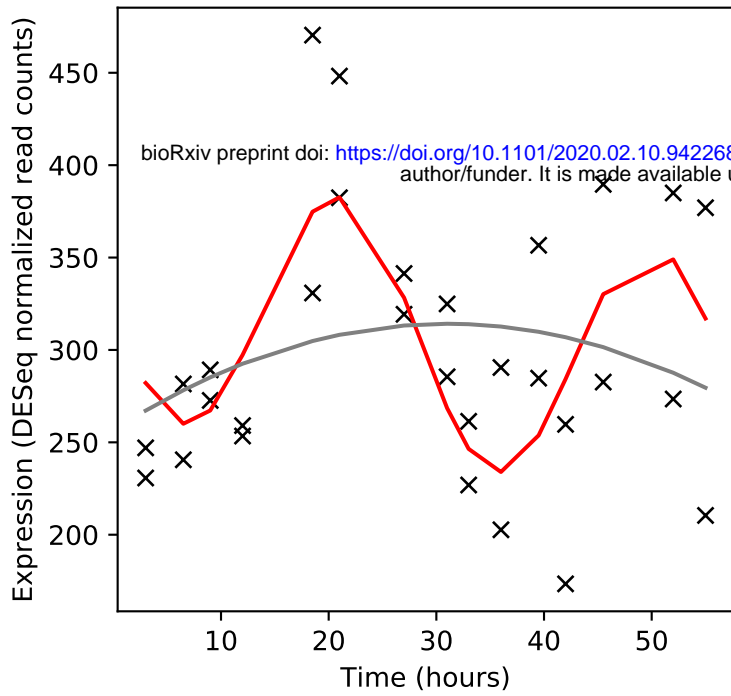
Rv2500c/fadE19



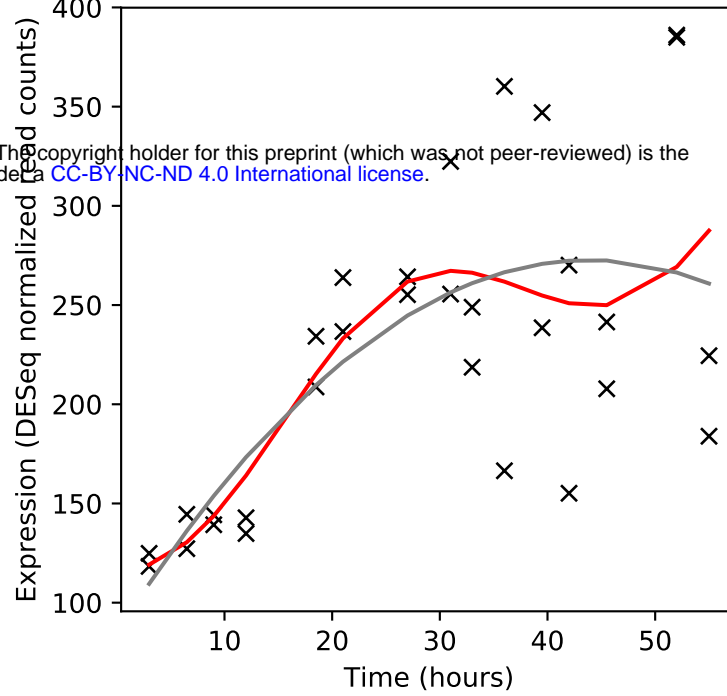
Rv2501c/accA1



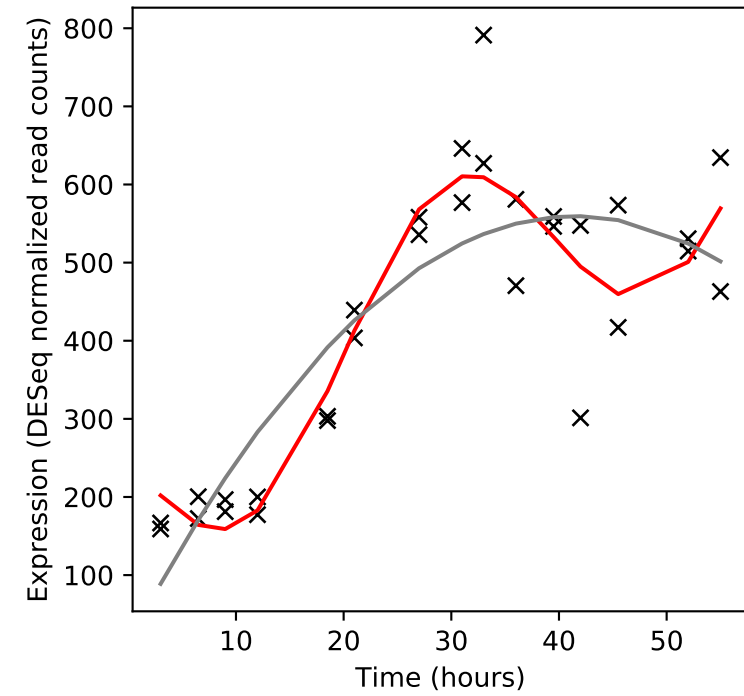
Rv2502c/accD1



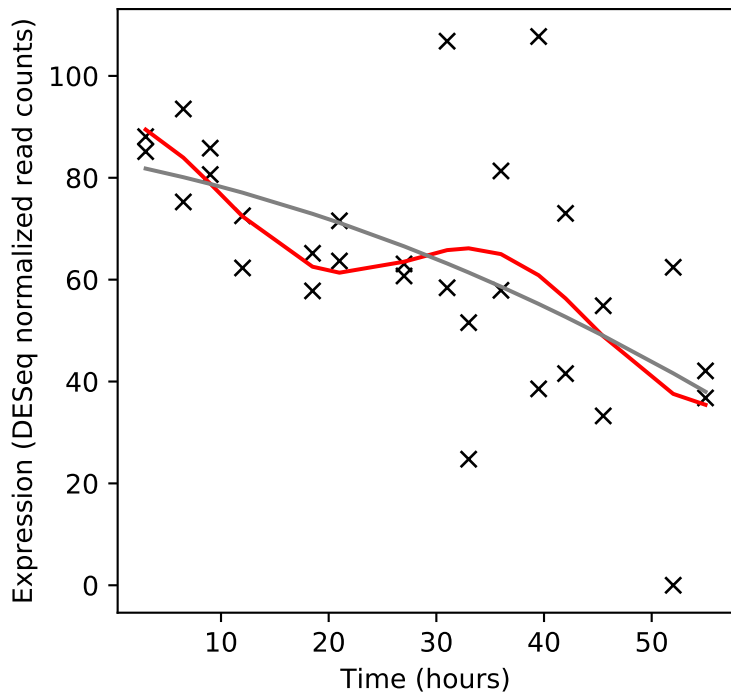
Rv2503c/scoB



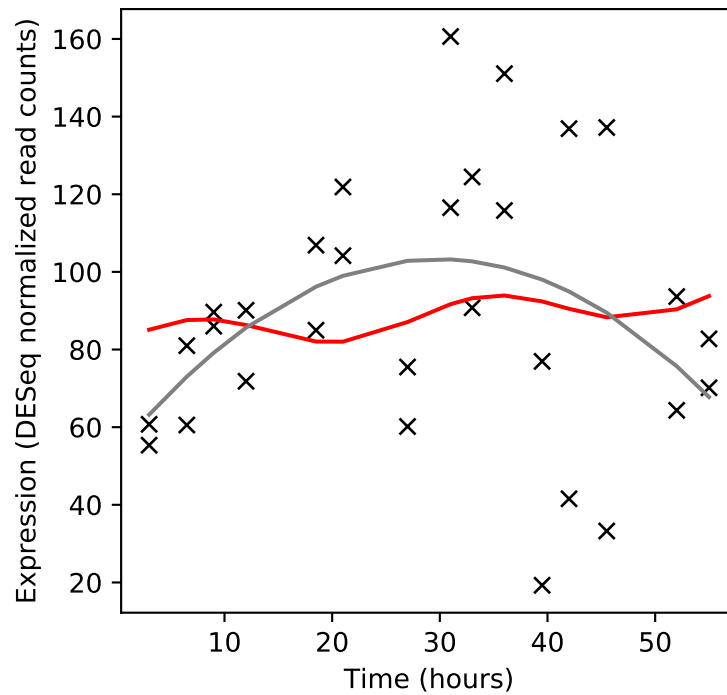
Rv2504c/scoA



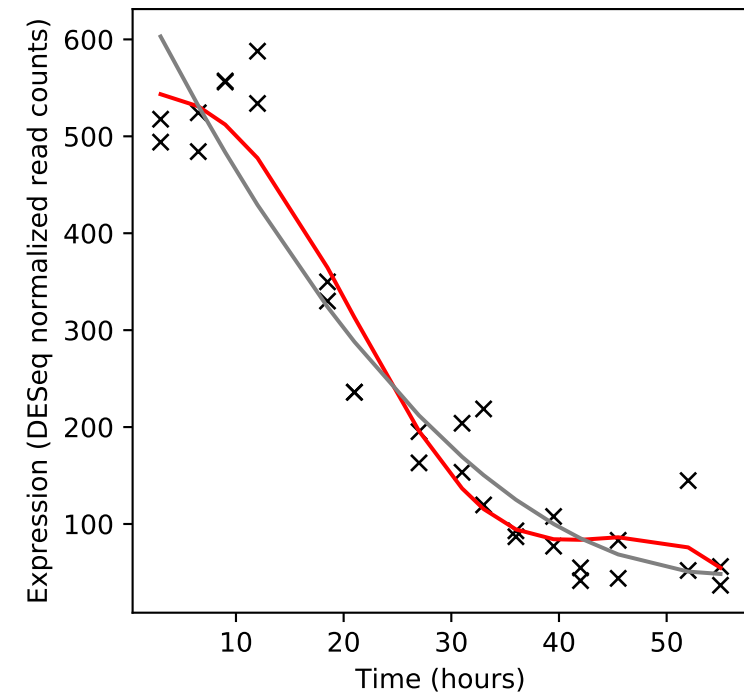
Rv2505c/fadD35



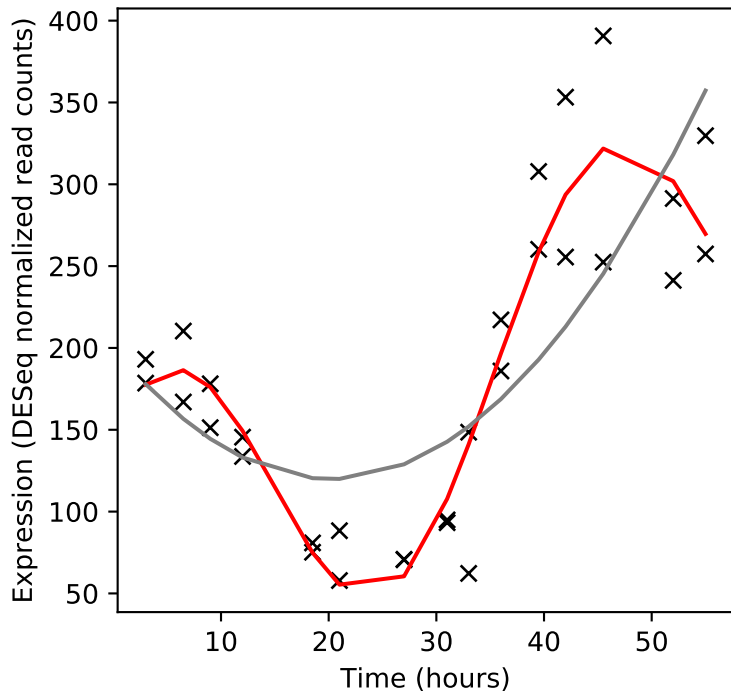
Rv2506/-



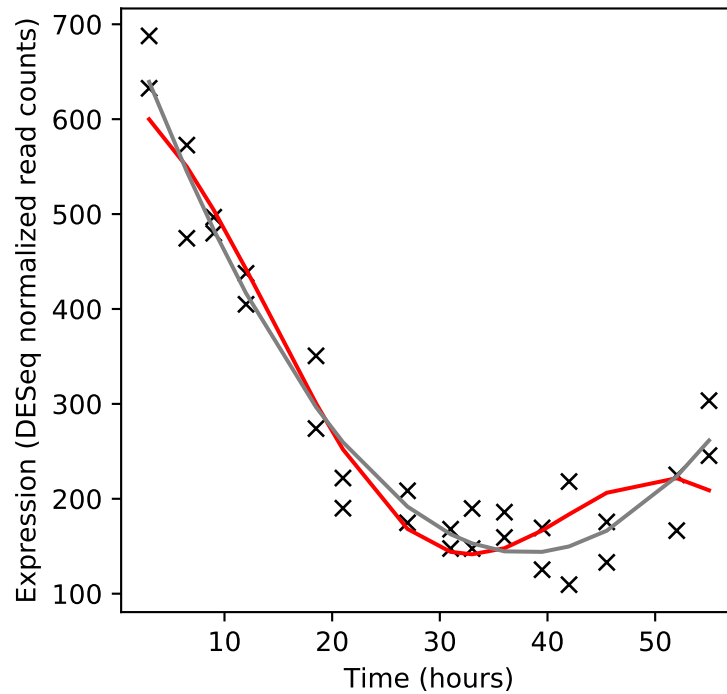
Rv2507/-



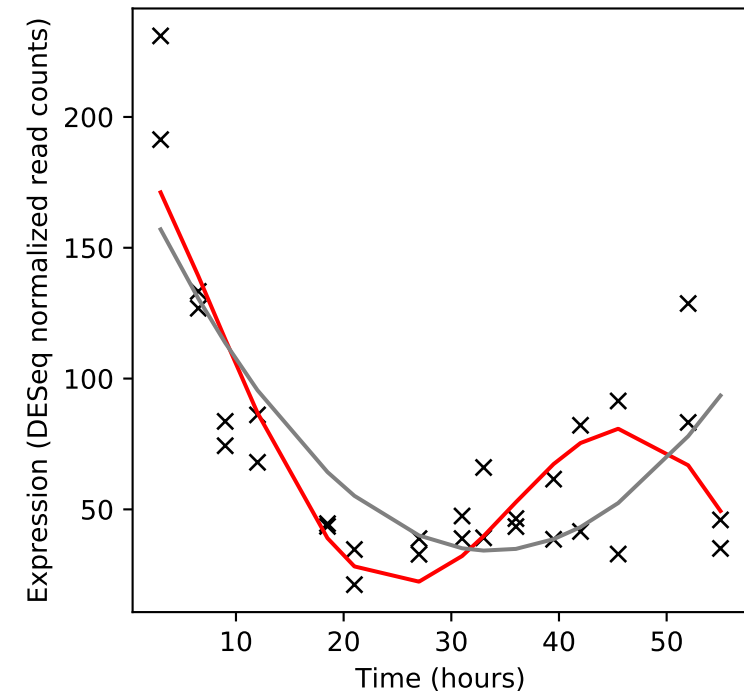
Rv2508c/-



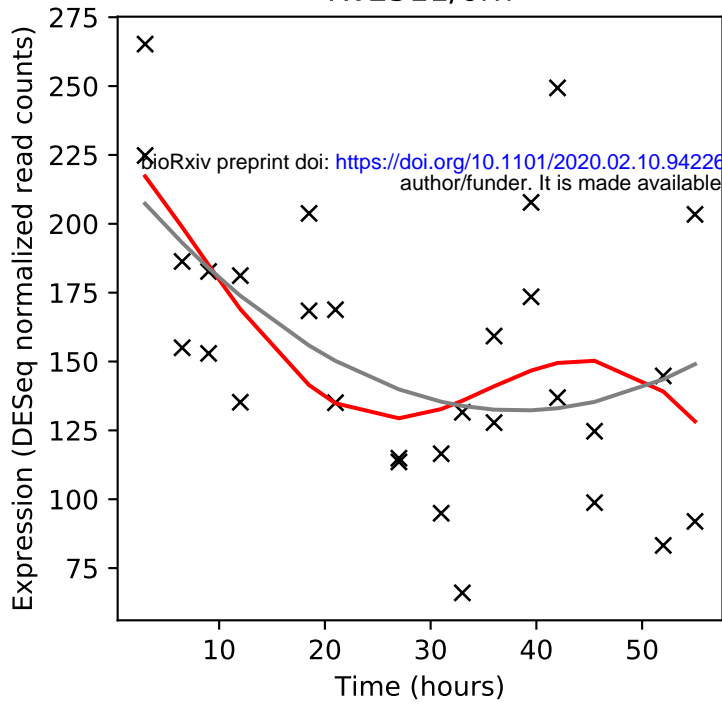
Rv2509/-



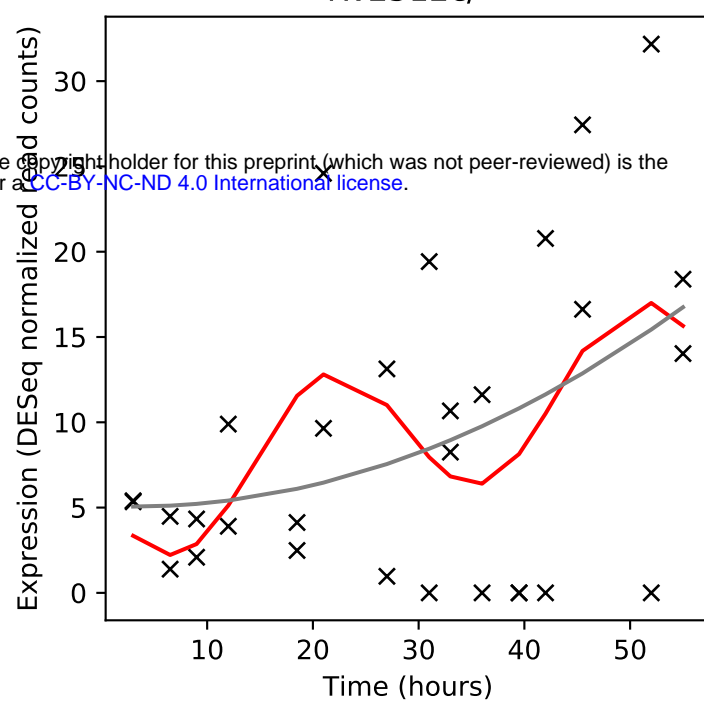
Rv2510c/-



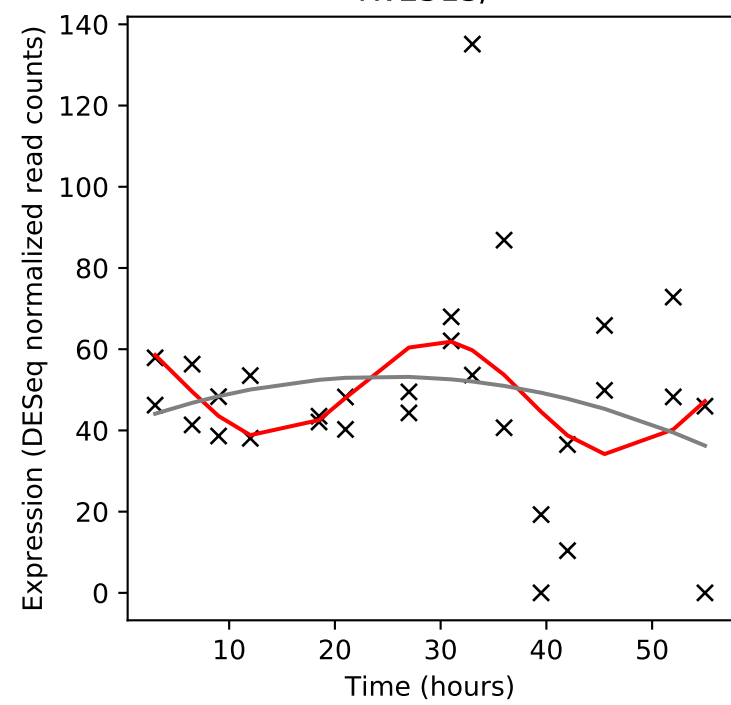
Rv2511/orn



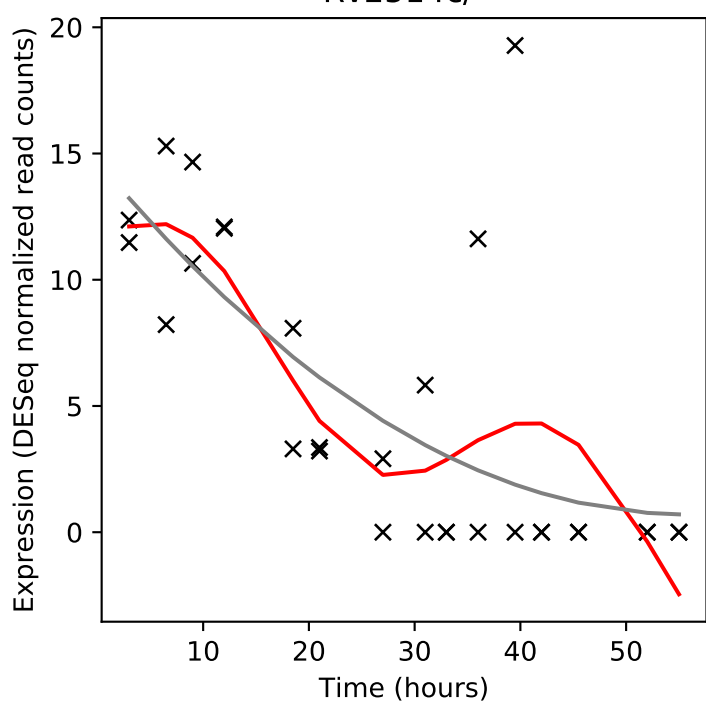
Rv2512c/-



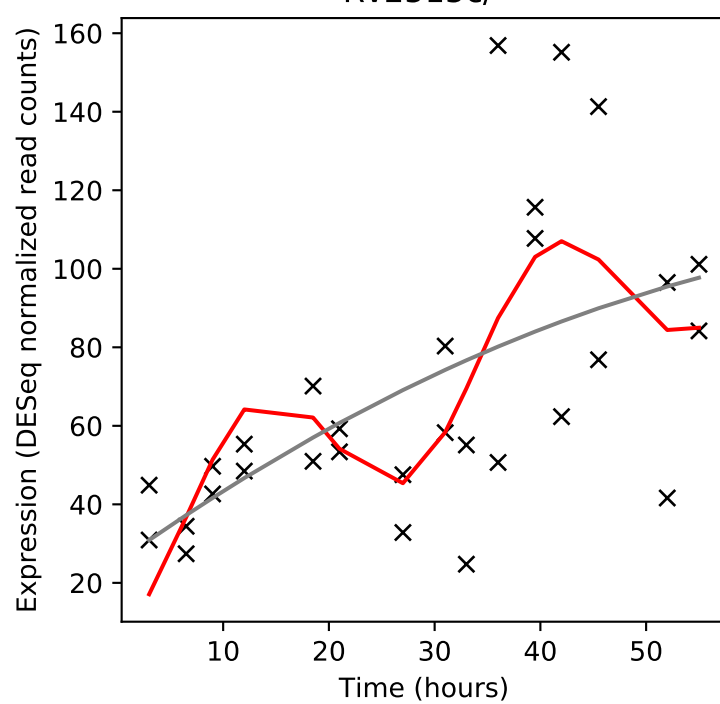
Rv2513/-



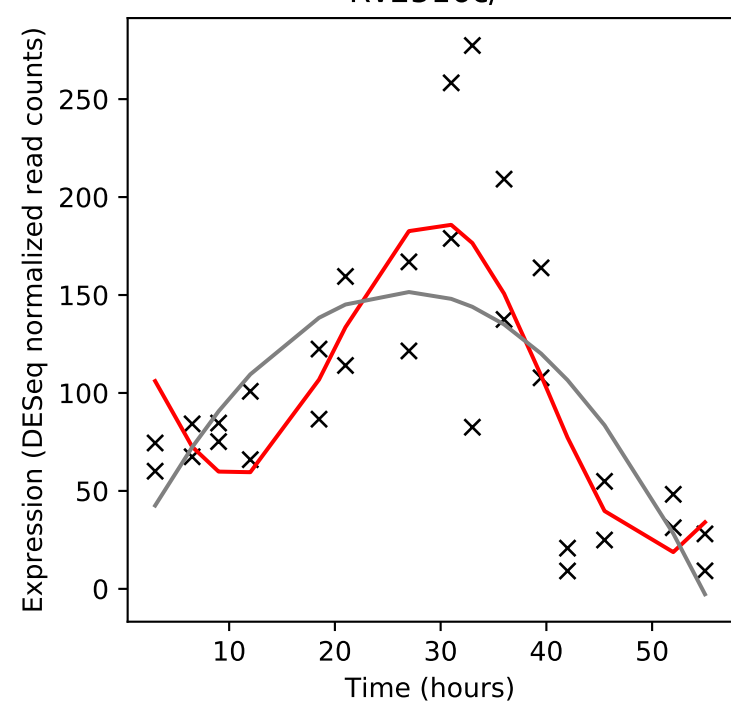
Rv2514c/-



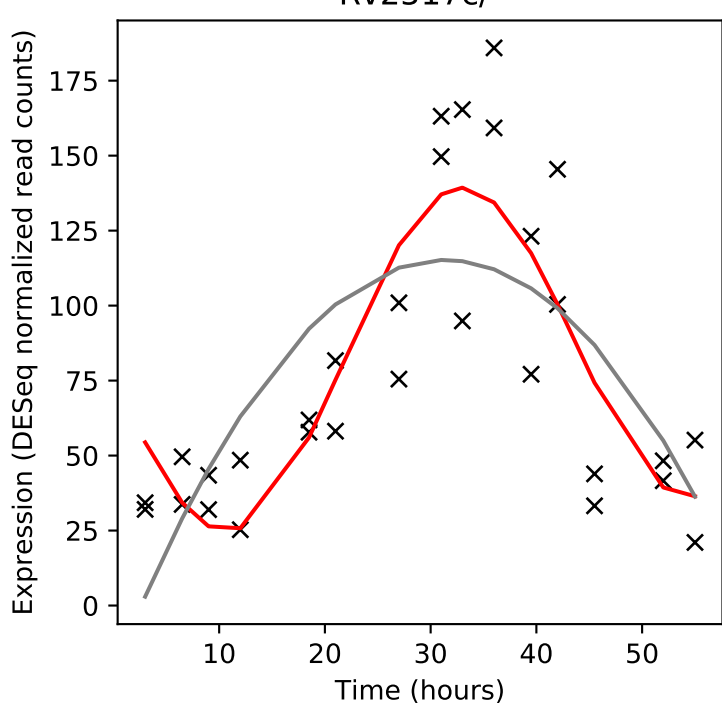
Rv2515c/-



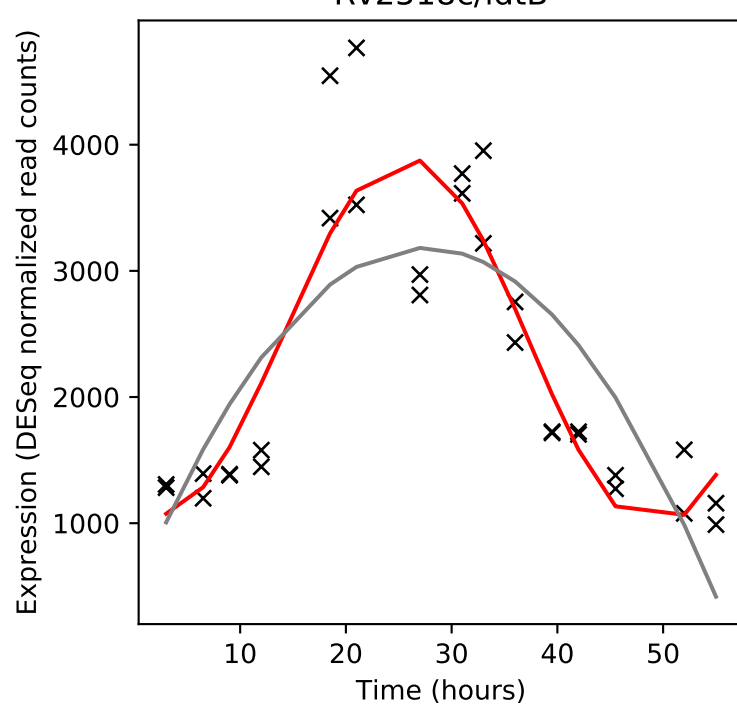
Rv2516c/-



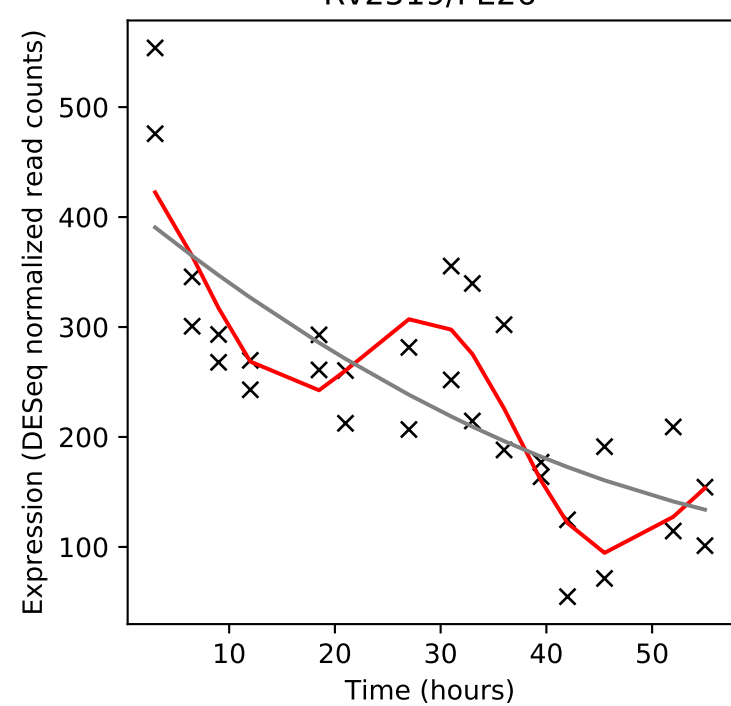
Rv2517c/-



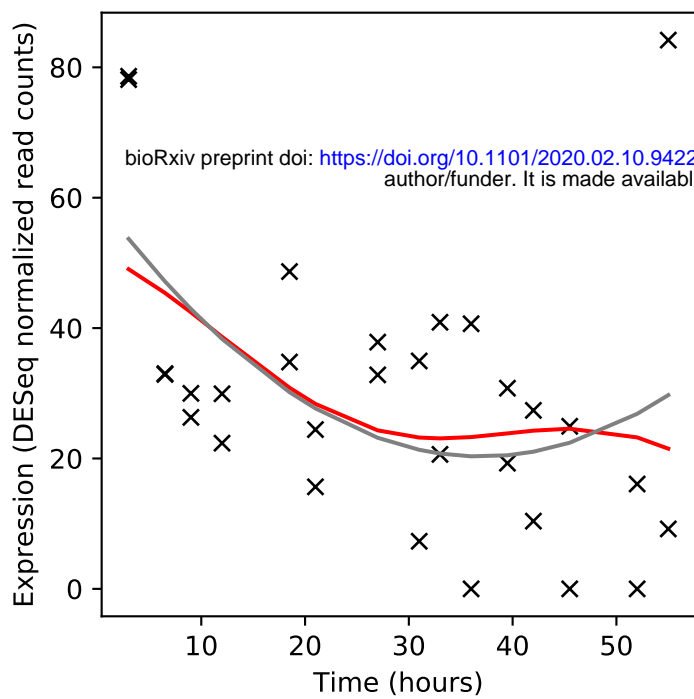
Rv2518c/ldtB



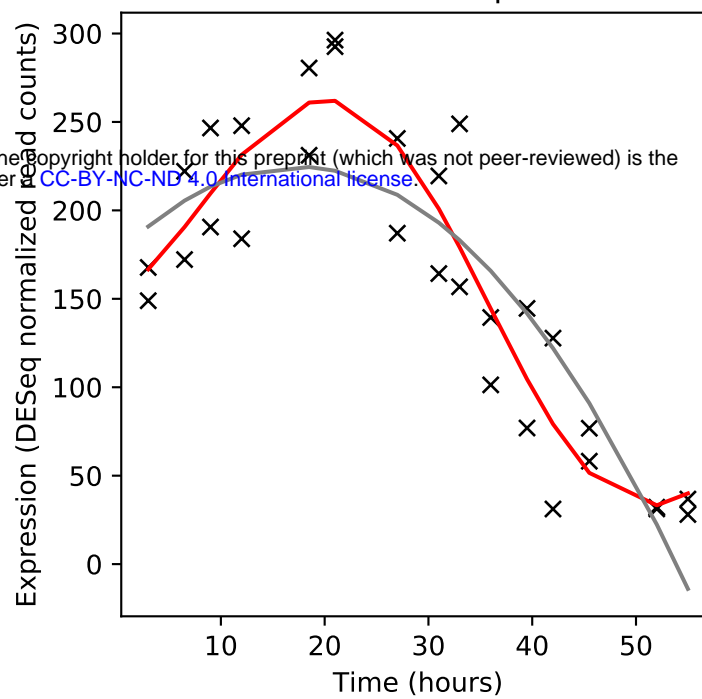
Rv2519/PE26



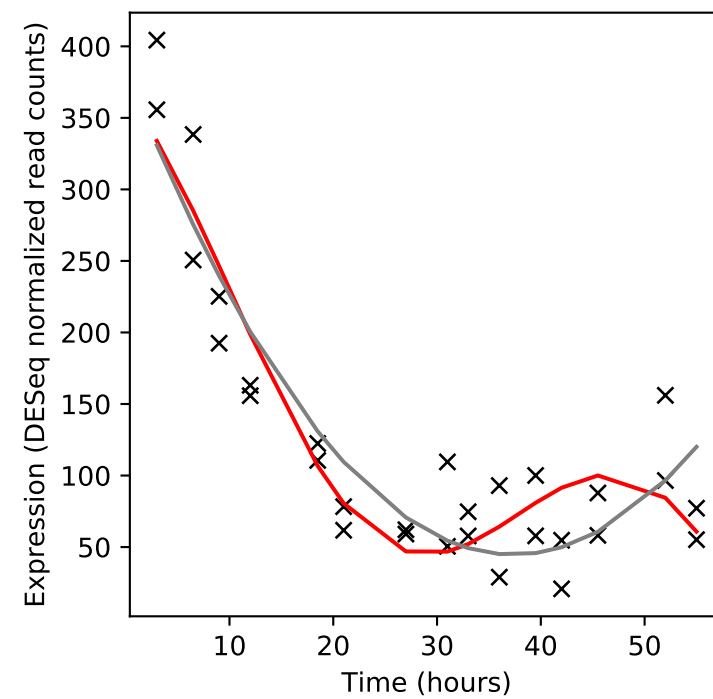
Rv2520c/-



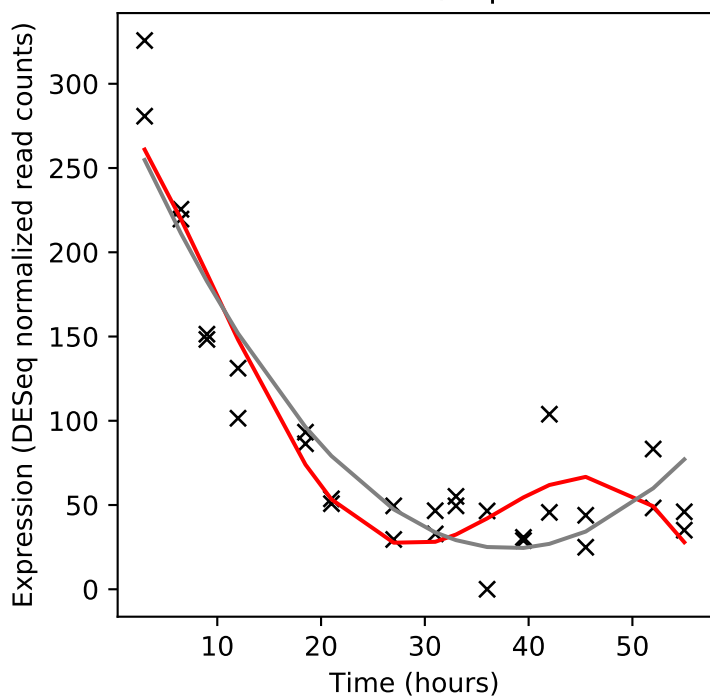
Rv2521/bcp



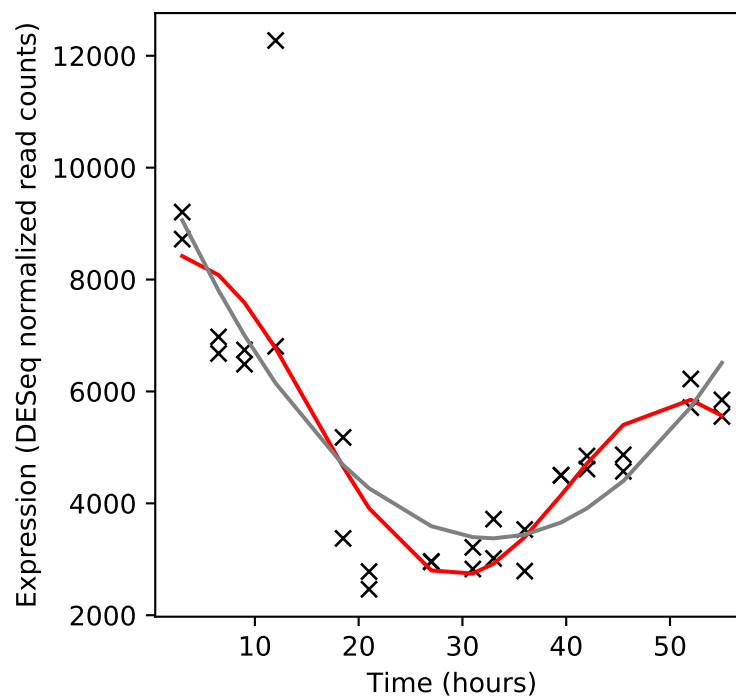
Rv2522c/-



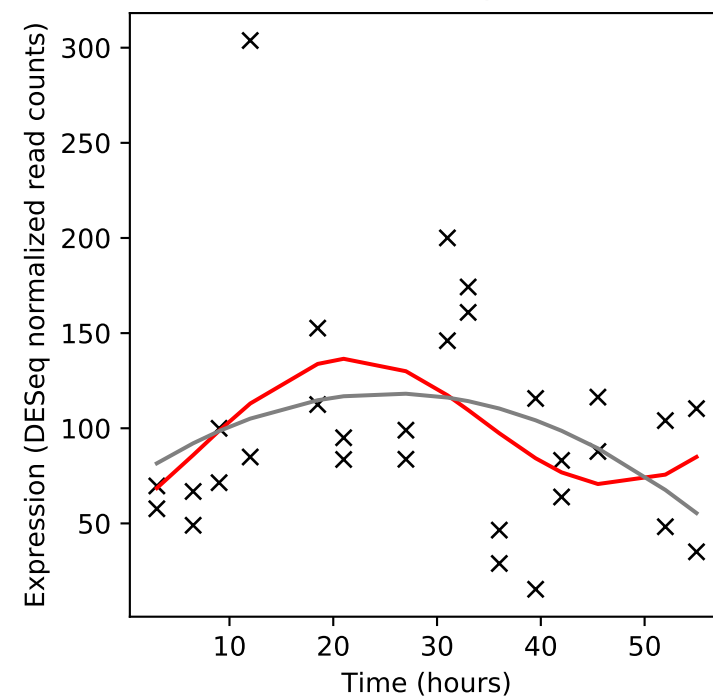
Rv2523c/acpS



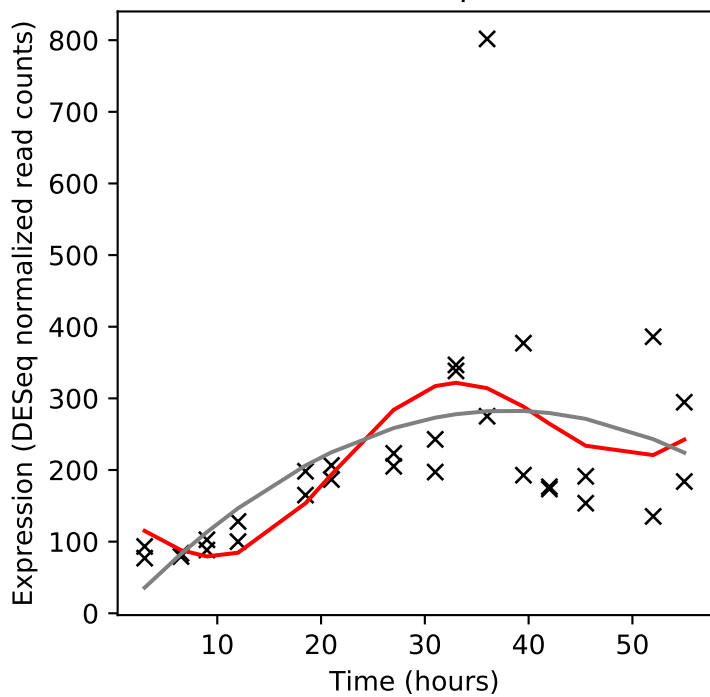
Rv2524c/fas



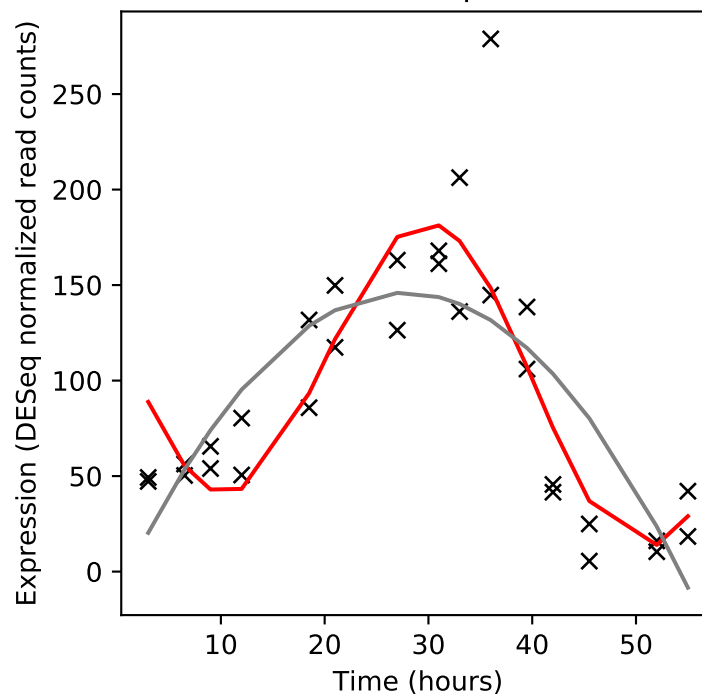
Rv2525c/-



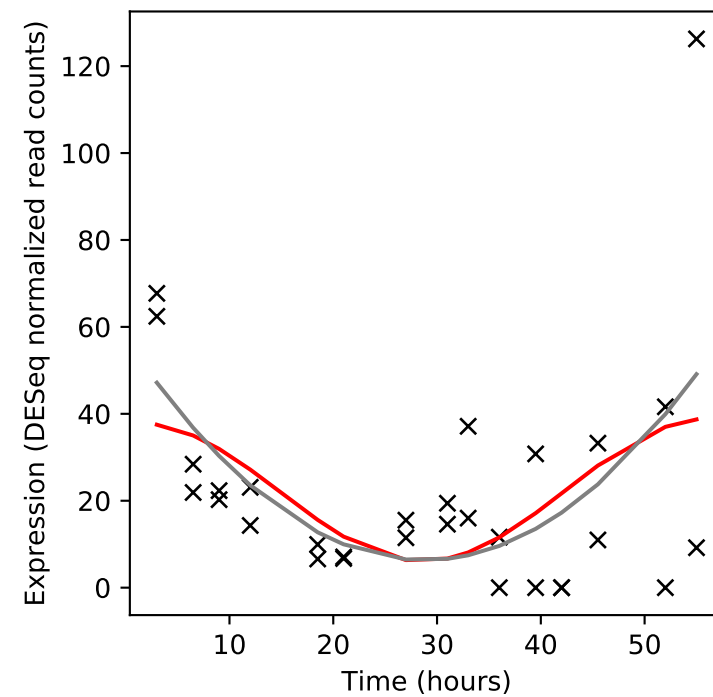
Rv2526/vapB17



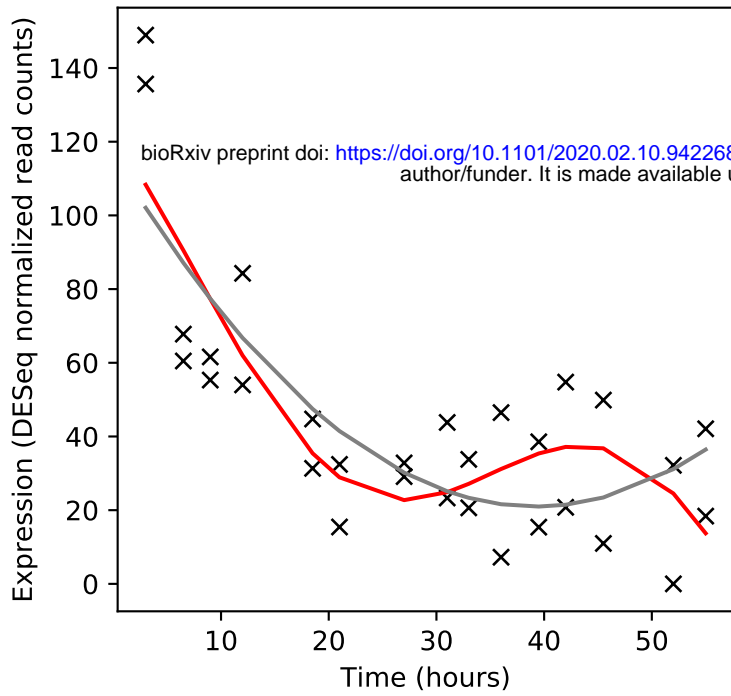
Rv2527/vapC17



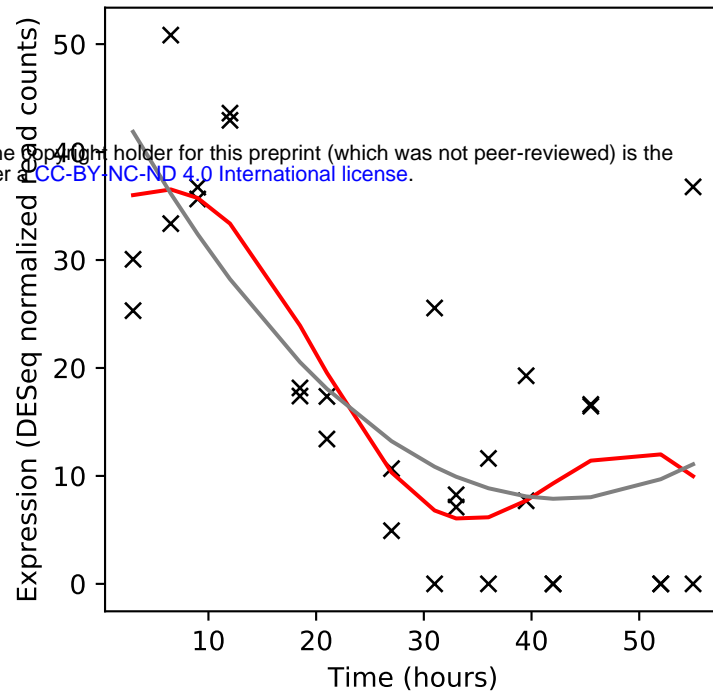
Rv2528c/mrr



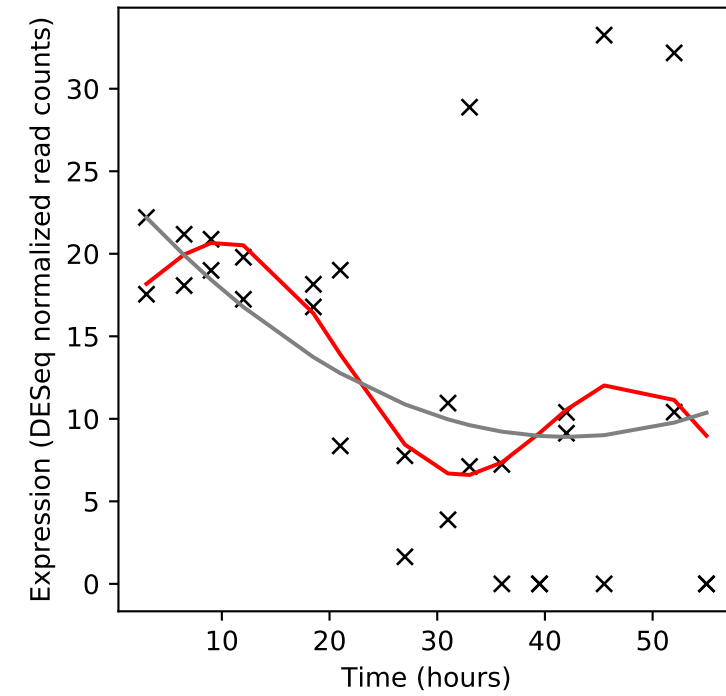
Rv2529/-



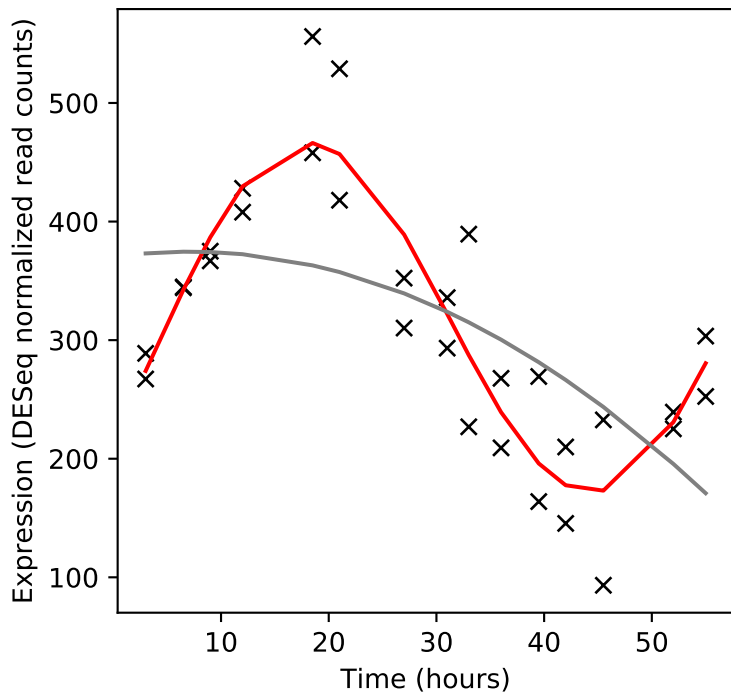
Rv2530c/vapC39



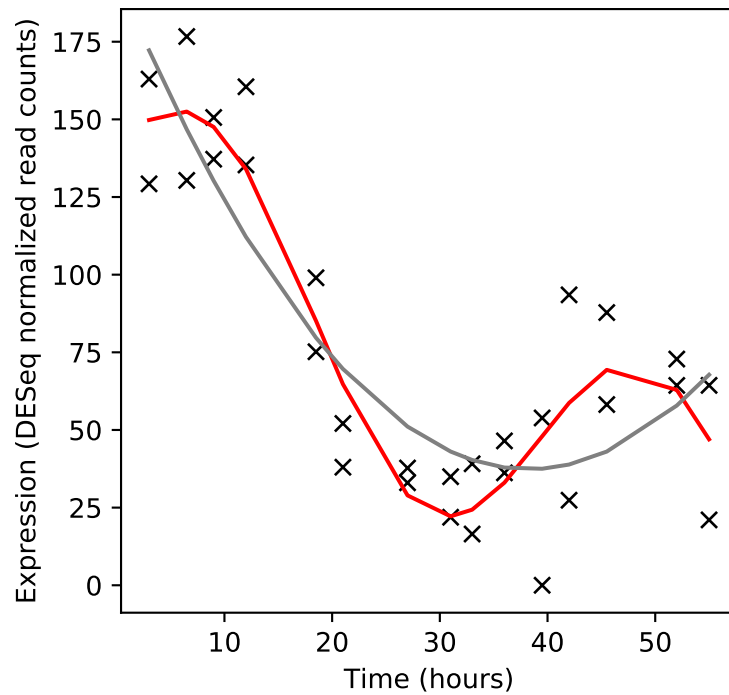
Rv2530A/vapB39



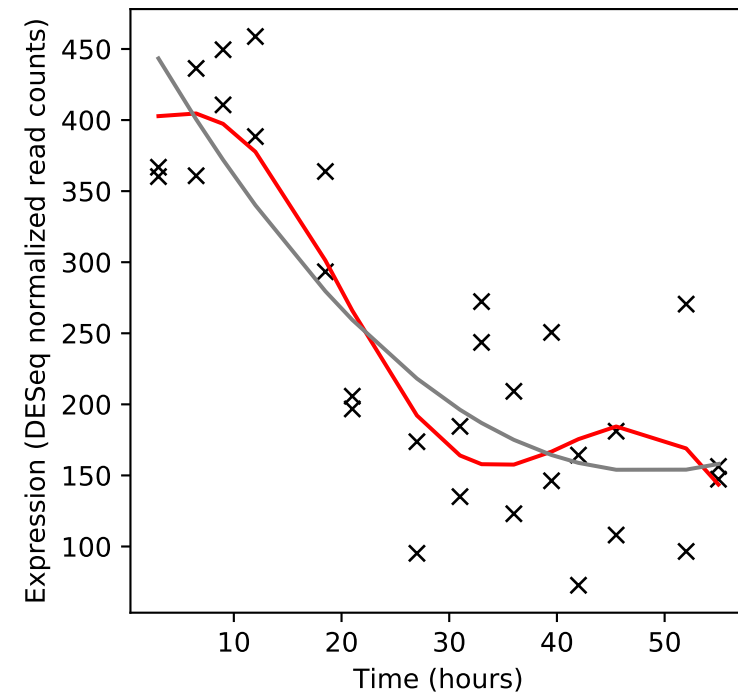
Rv2531c/-



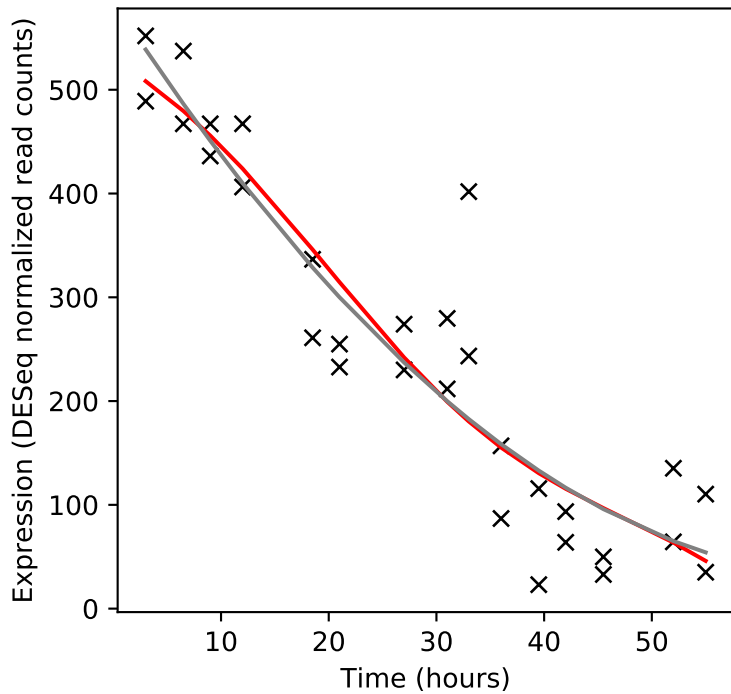
Rv2532c/-



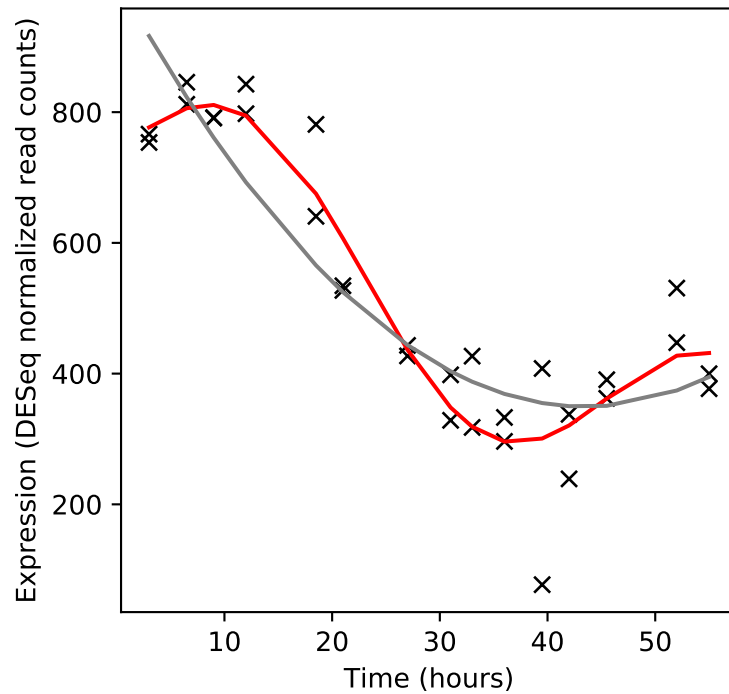
Rv2533c/nusB



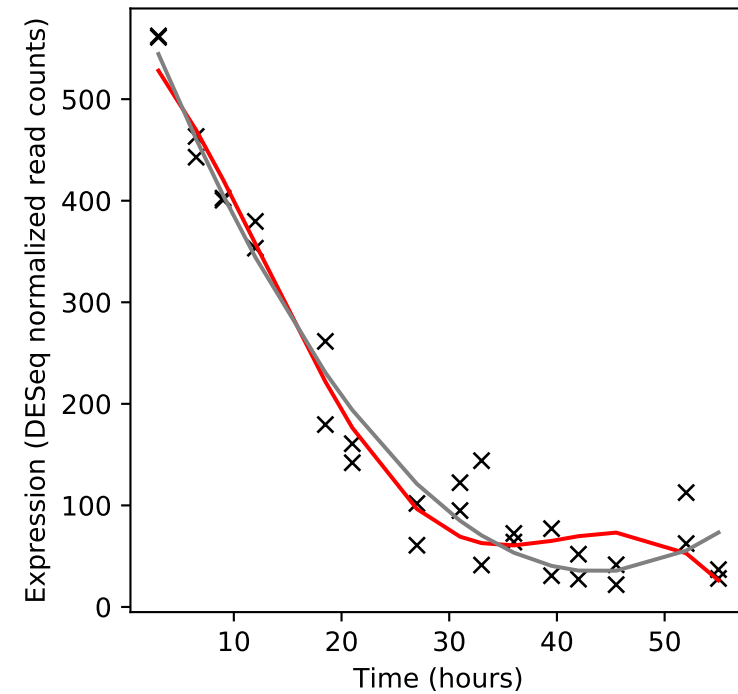
Rv2534c/efp



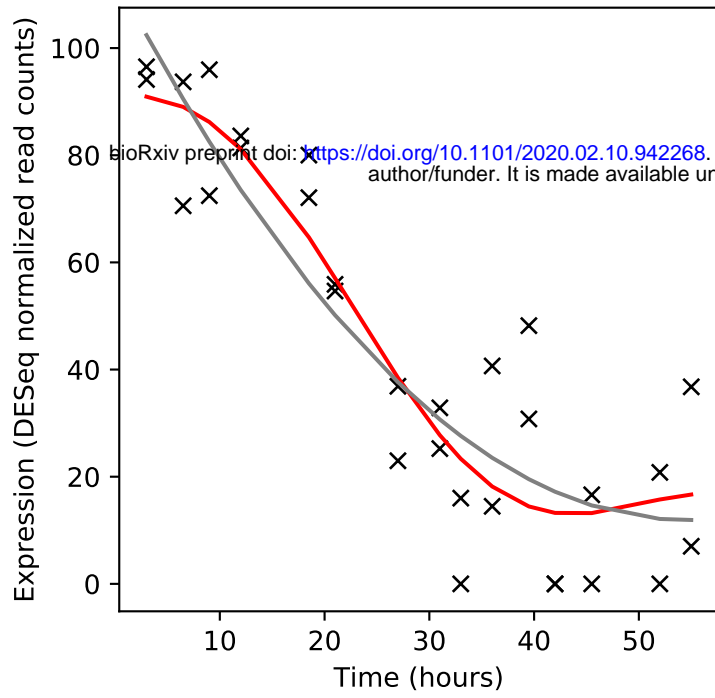
Rv2535c/pepQ



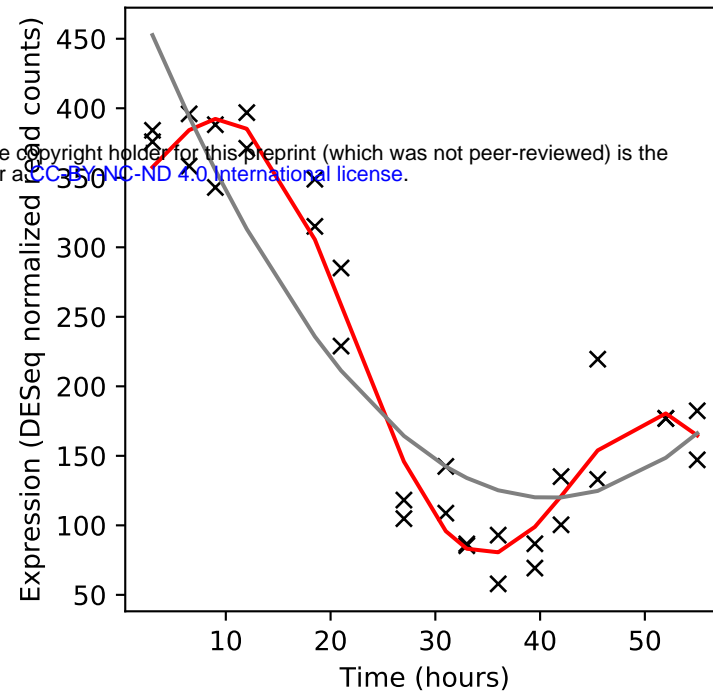
Rv2536/-



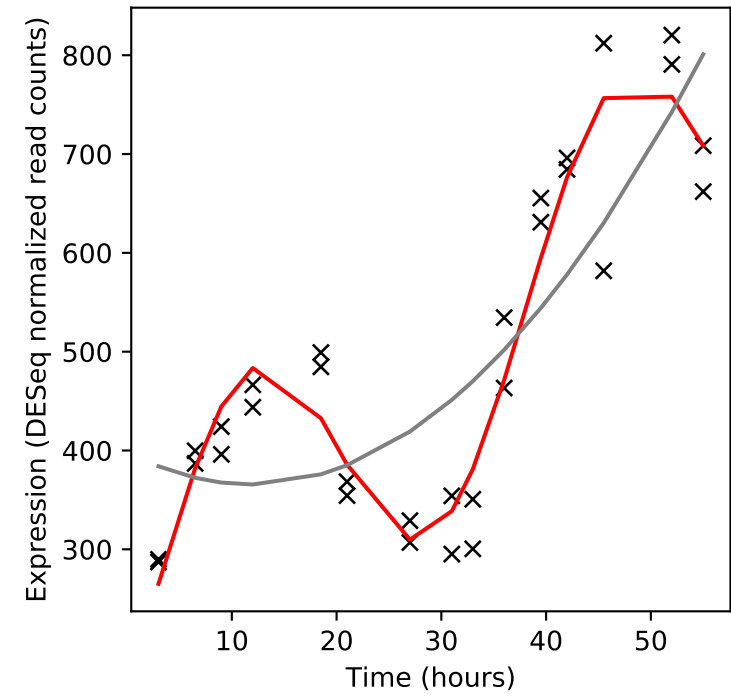
Rv2537c/aroD



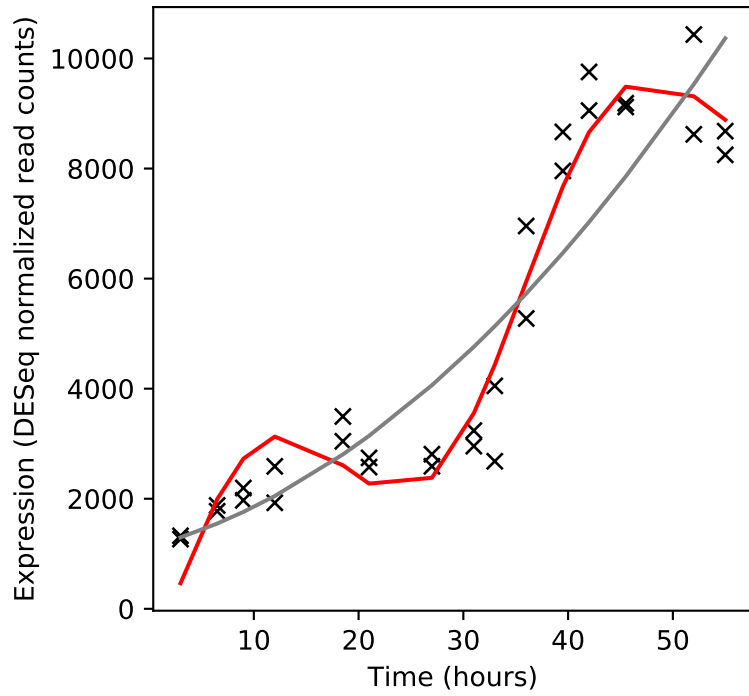
Rv2538c/aroB



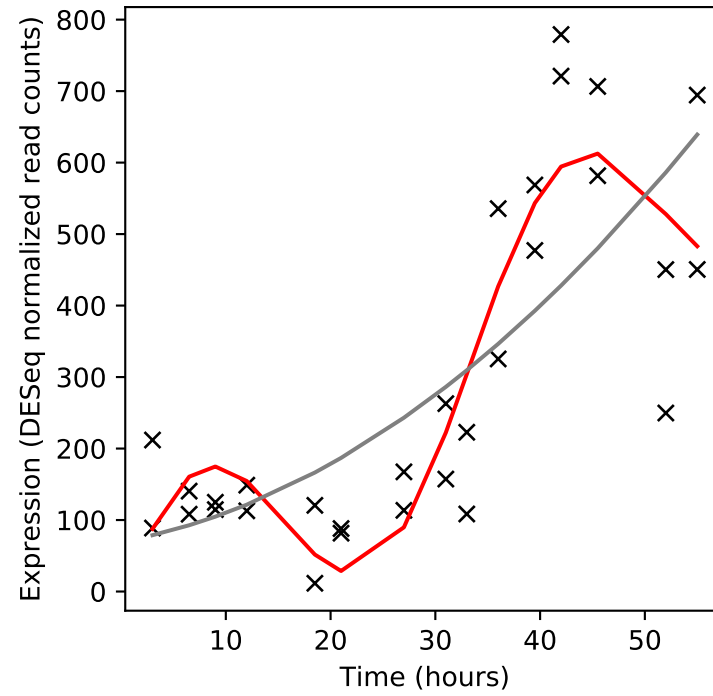
Rv2539c/aroK



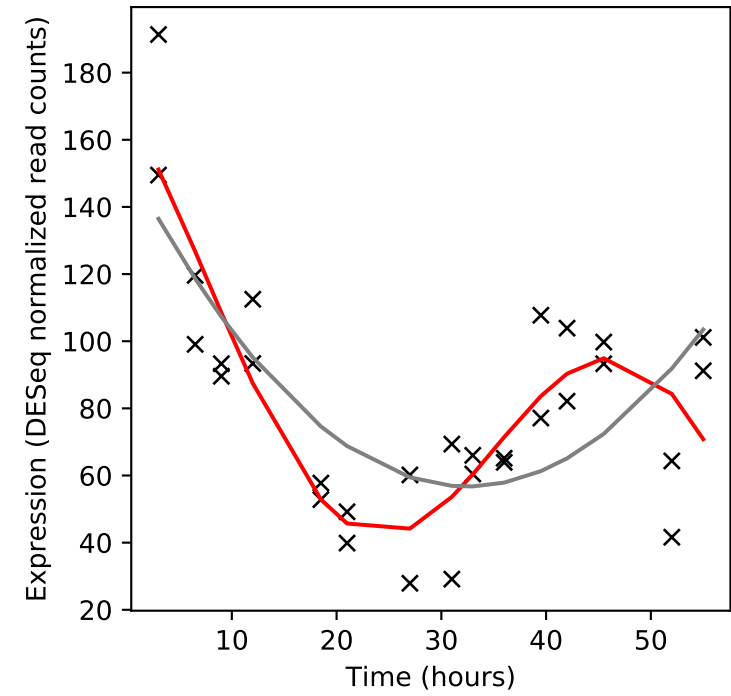
Rv2540c/aroF



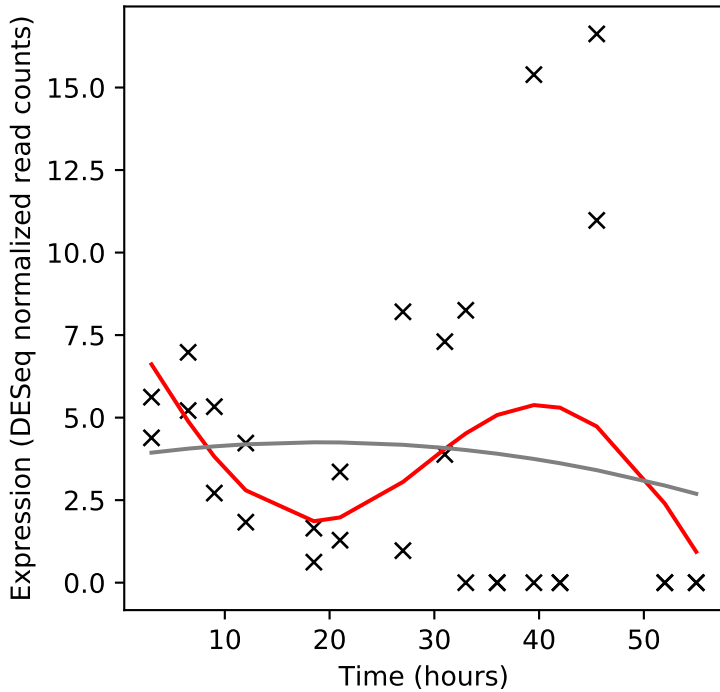
Rv2541/-



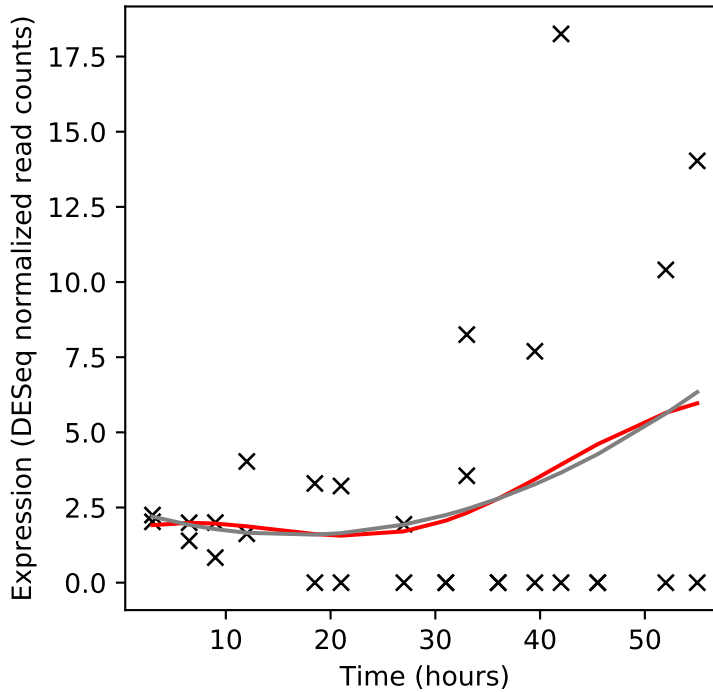
Rv2542/-



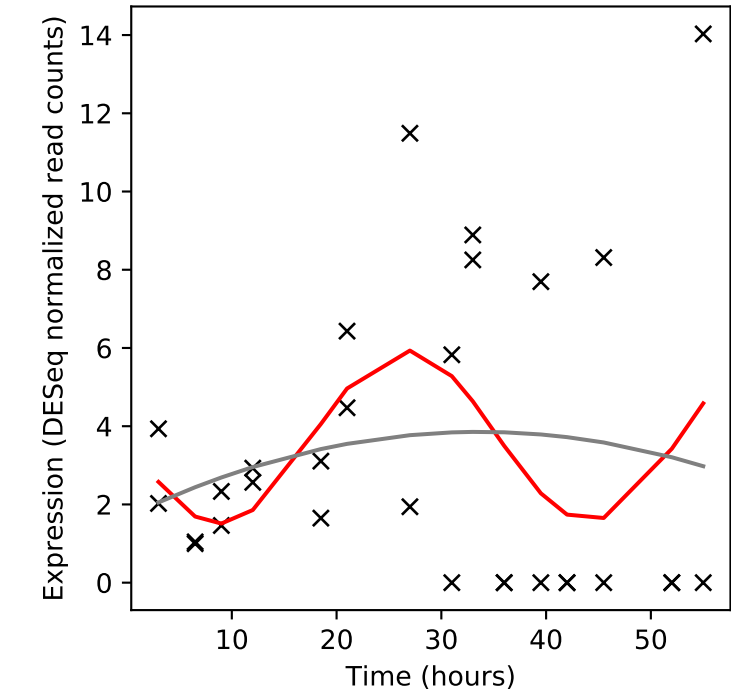
Rv2543/lppA



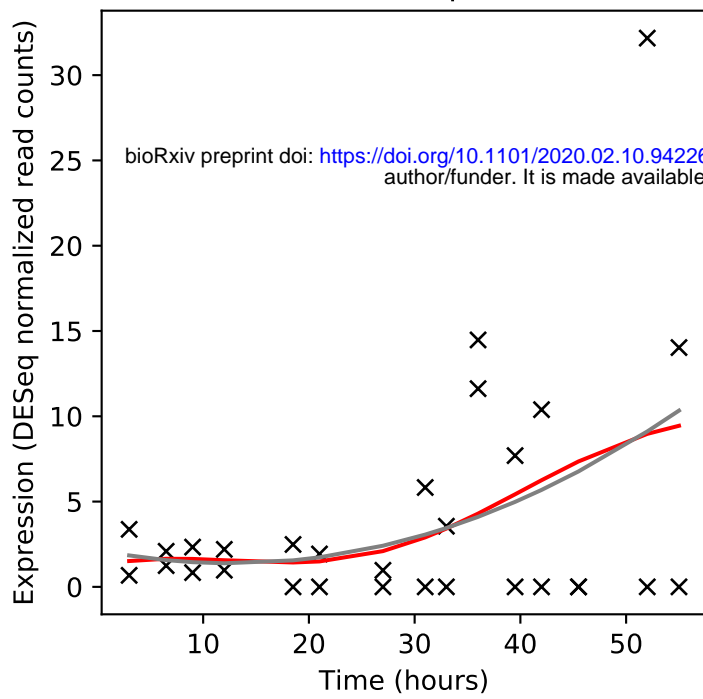
Rv2544/lppB



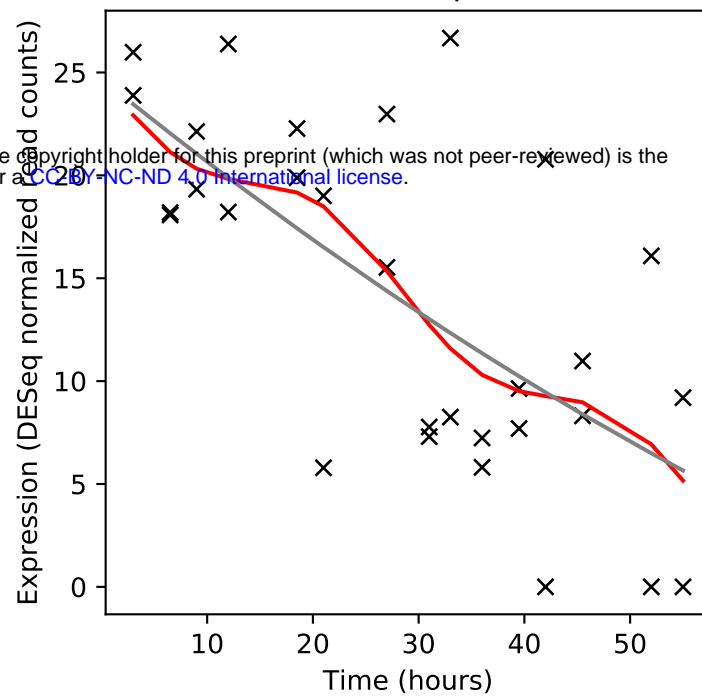
Rv2545/vapB18



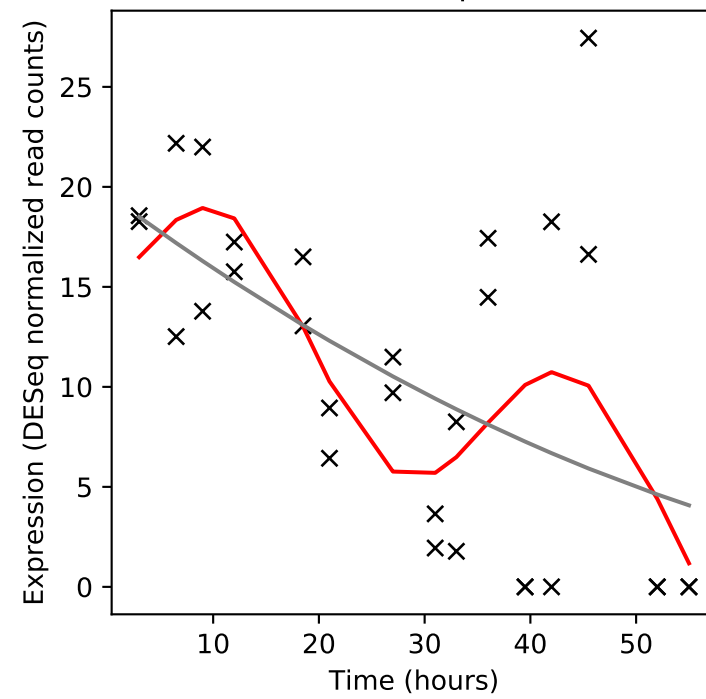
Rv2546/vapC18



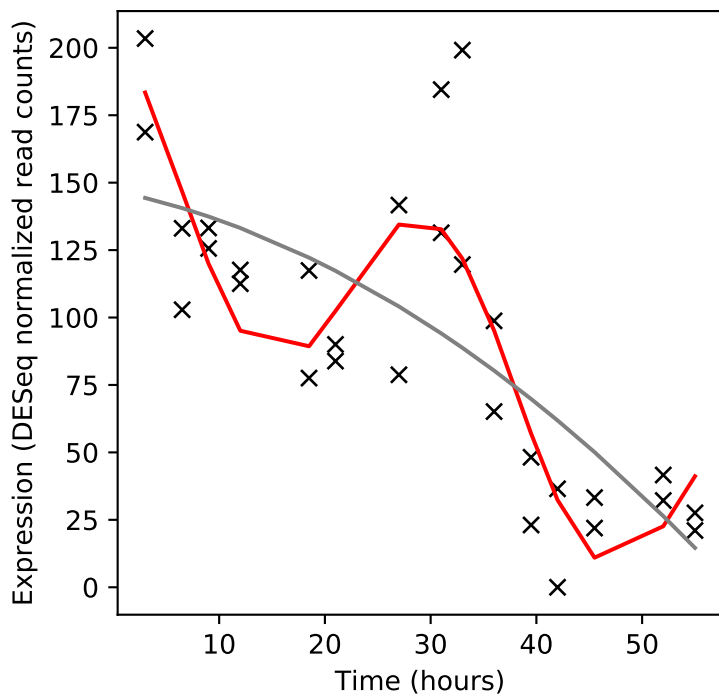
Rv2547/vapB19



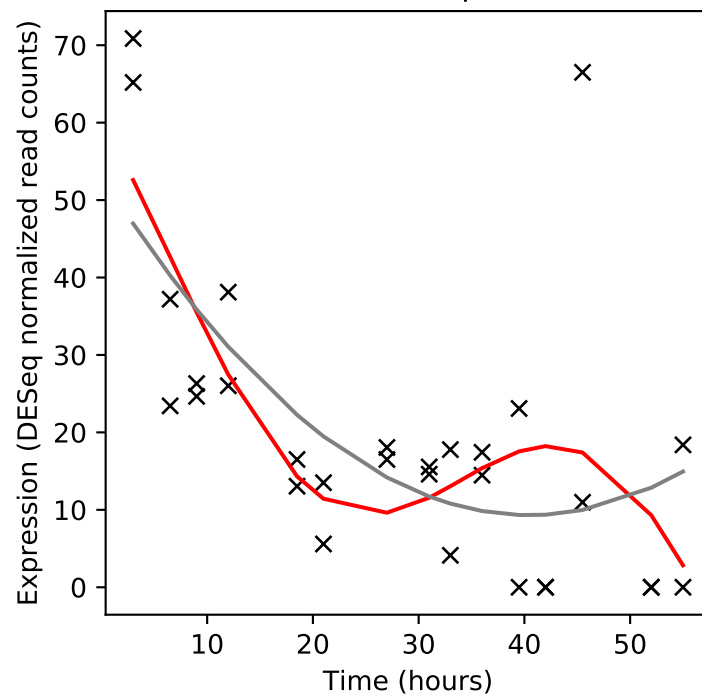
Rv2548/vapC19



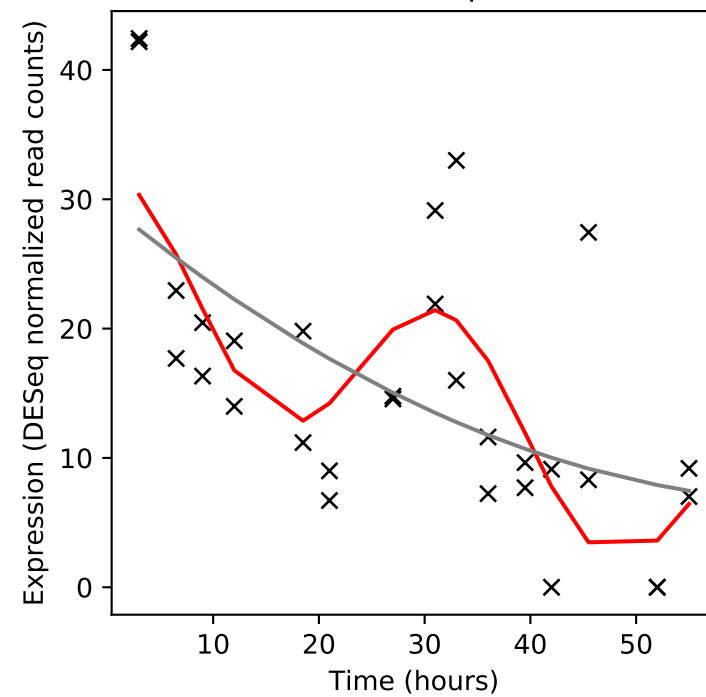
Rv2548A/-



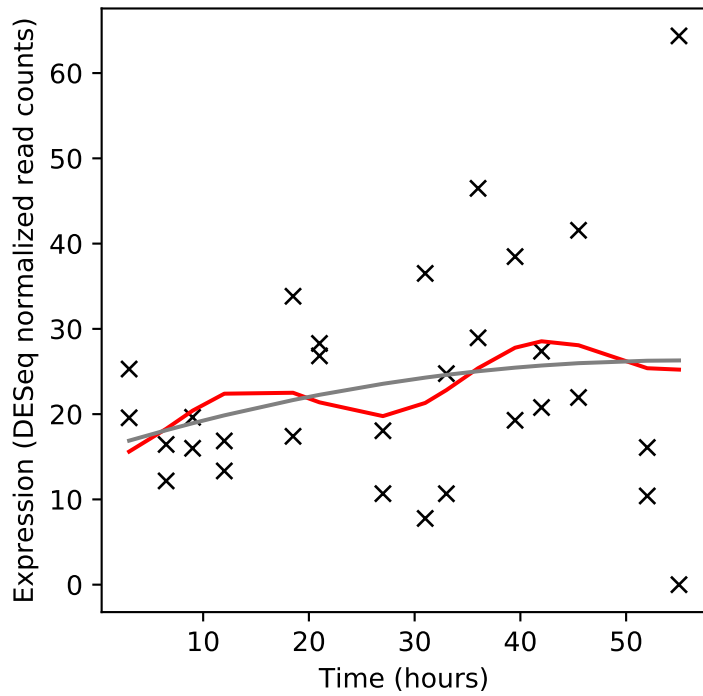
Rv2549c/vapC20



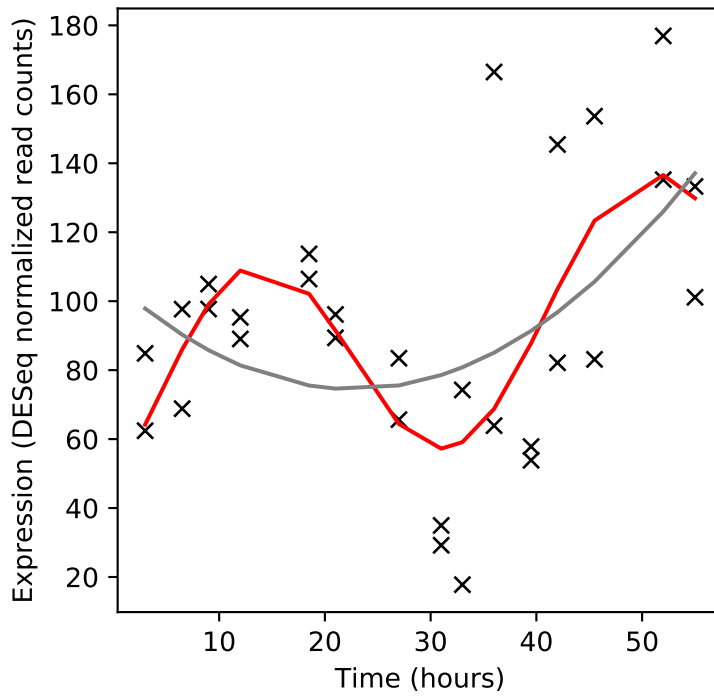
Rv2550c/vapB20



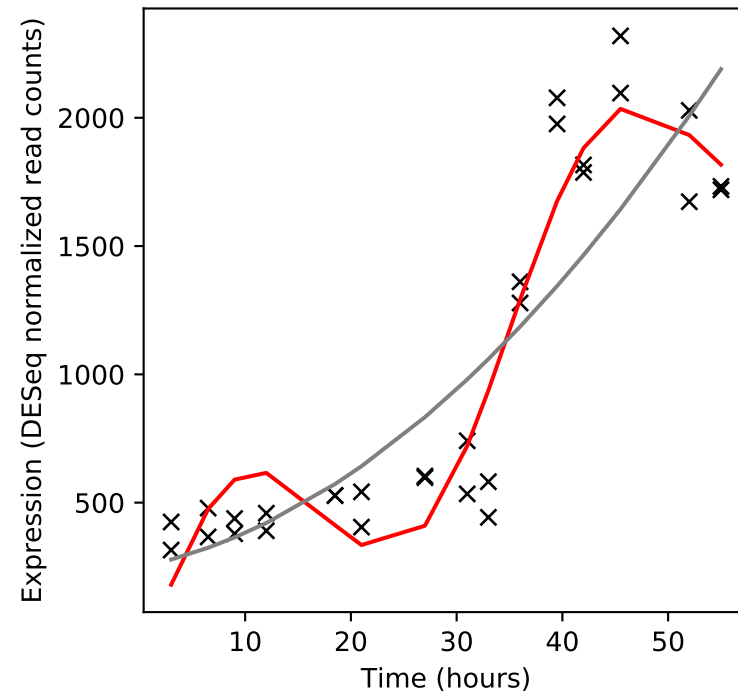
Rv2551c/-



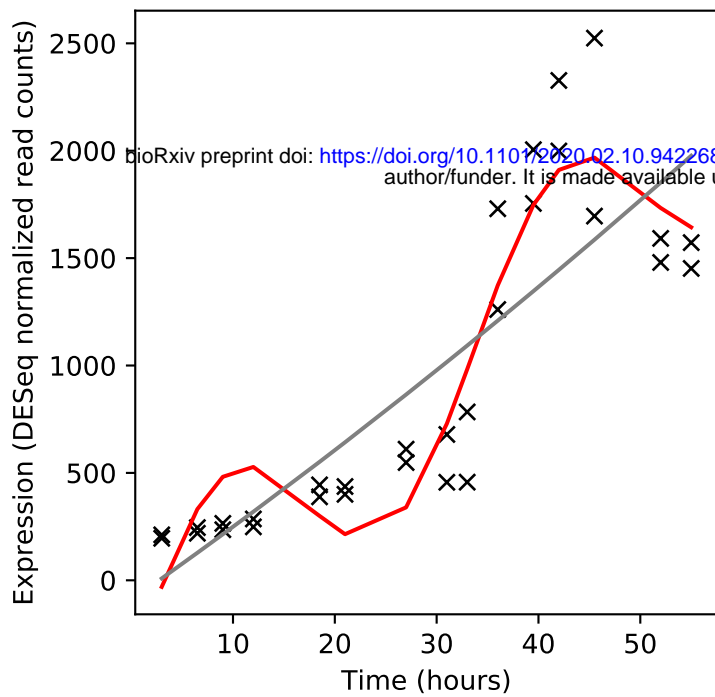
Rv2552c/aroE



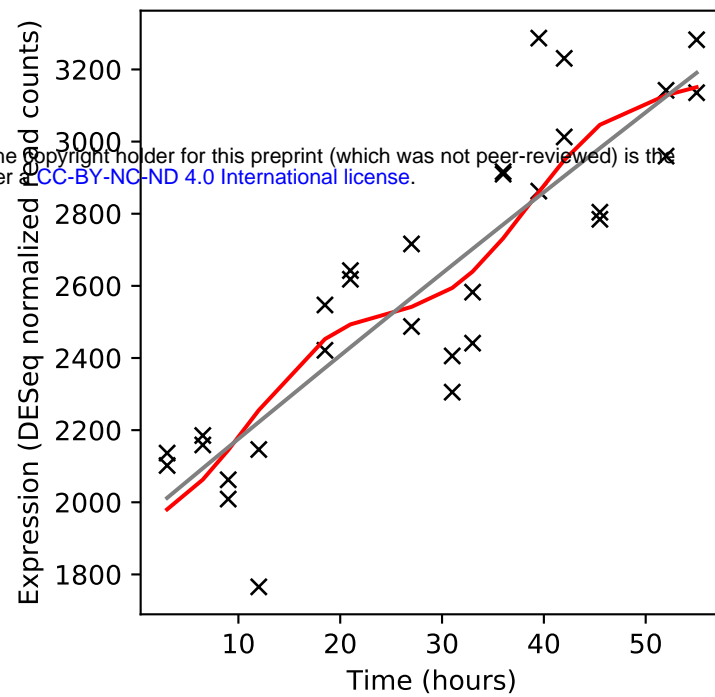
Rv2553c/-



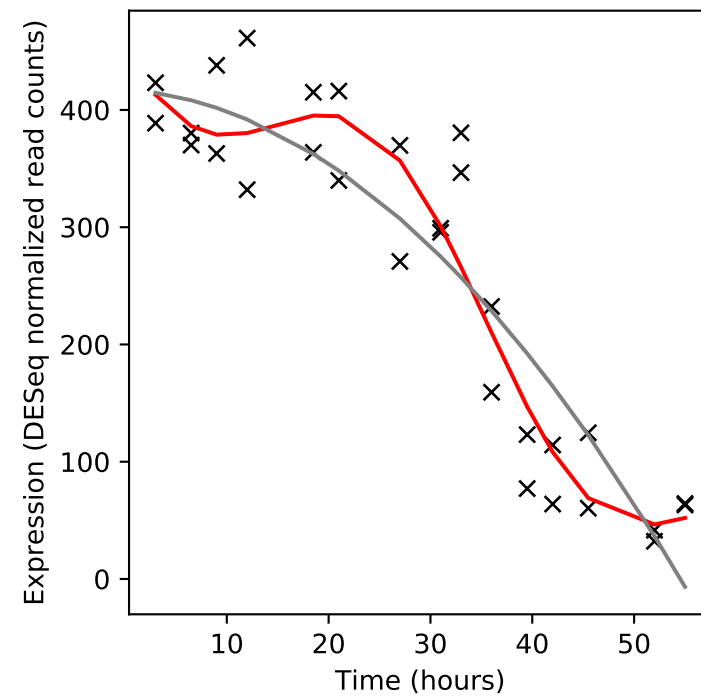
Rv2554c/-



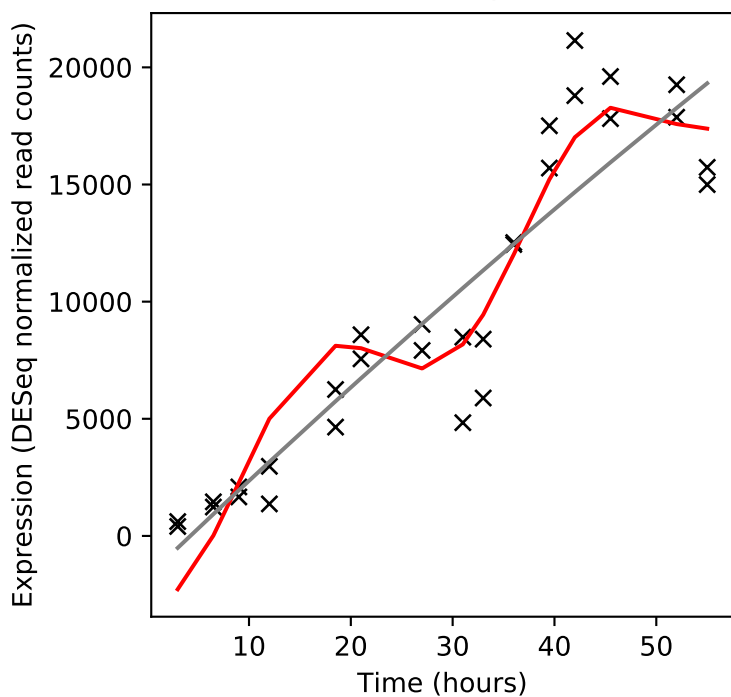
Rv2555c/alaS



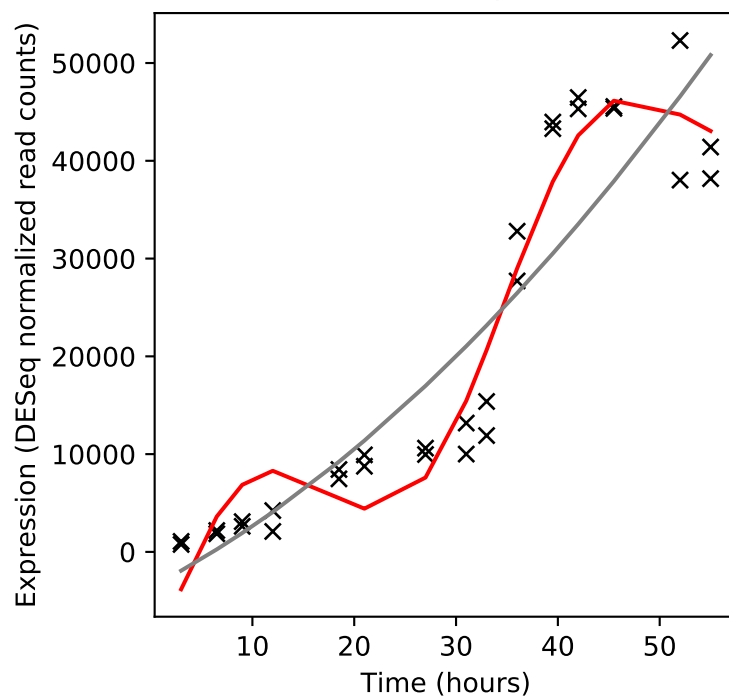
Rv2556c/-



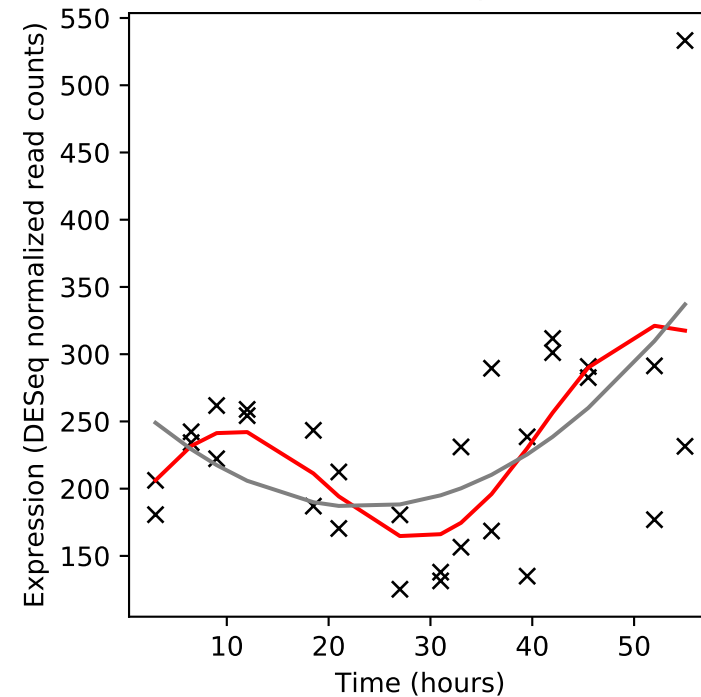
Rv2557/-



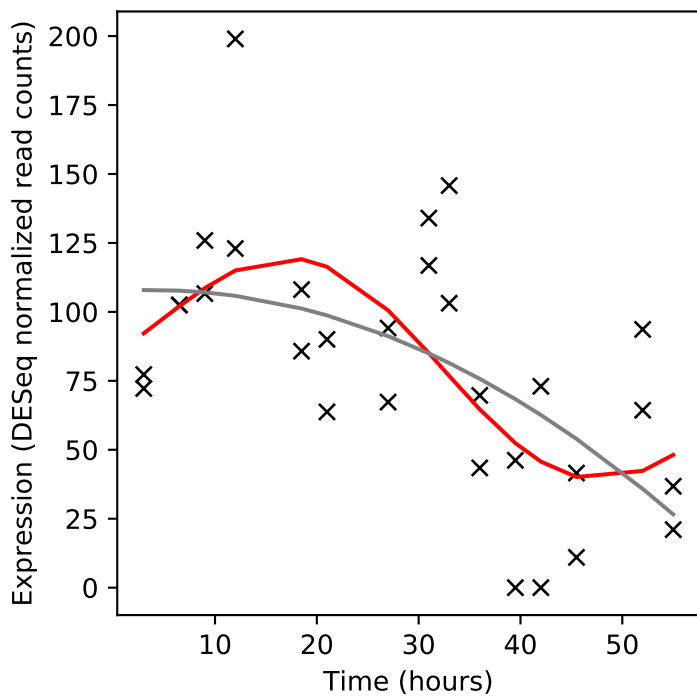
Rv2558/-



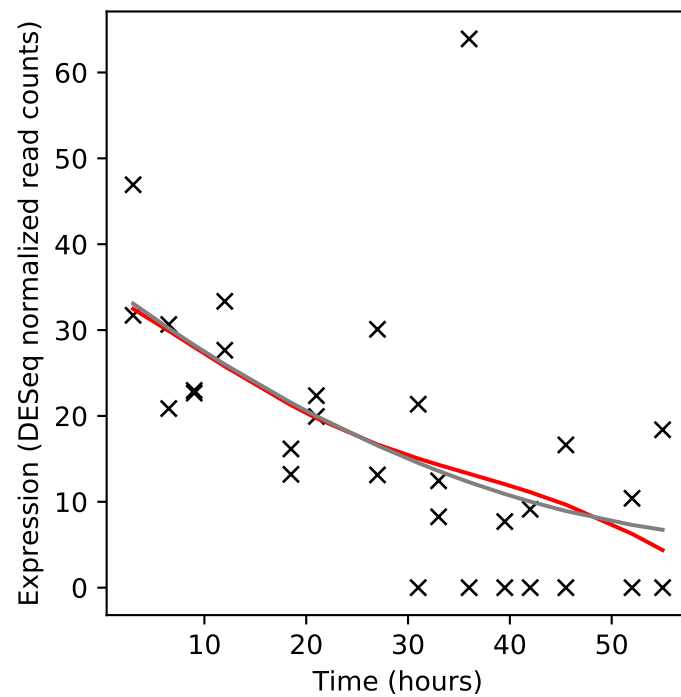
Rv2559c/-



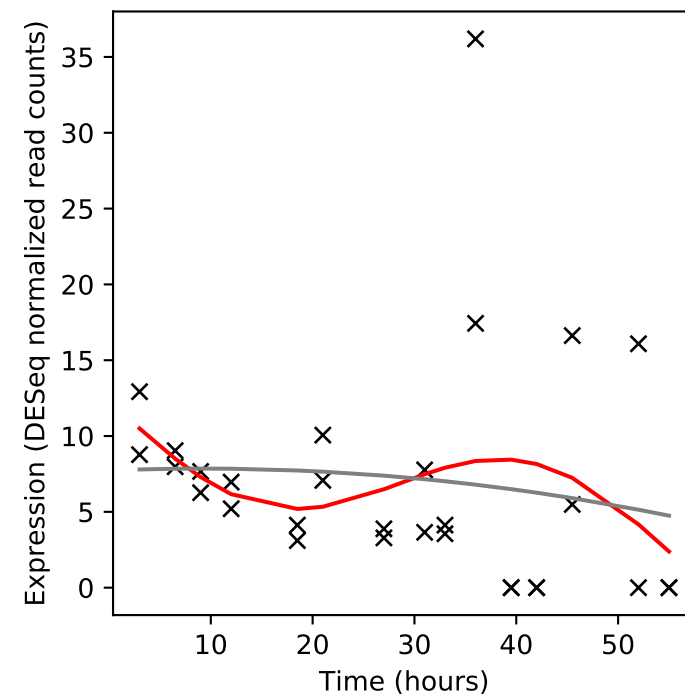
Rv2560/-



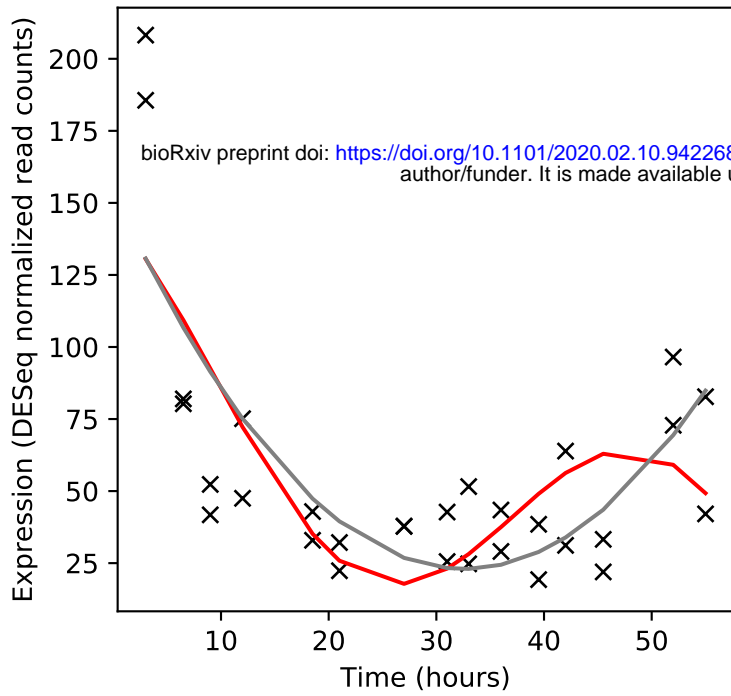
Rv2561/-



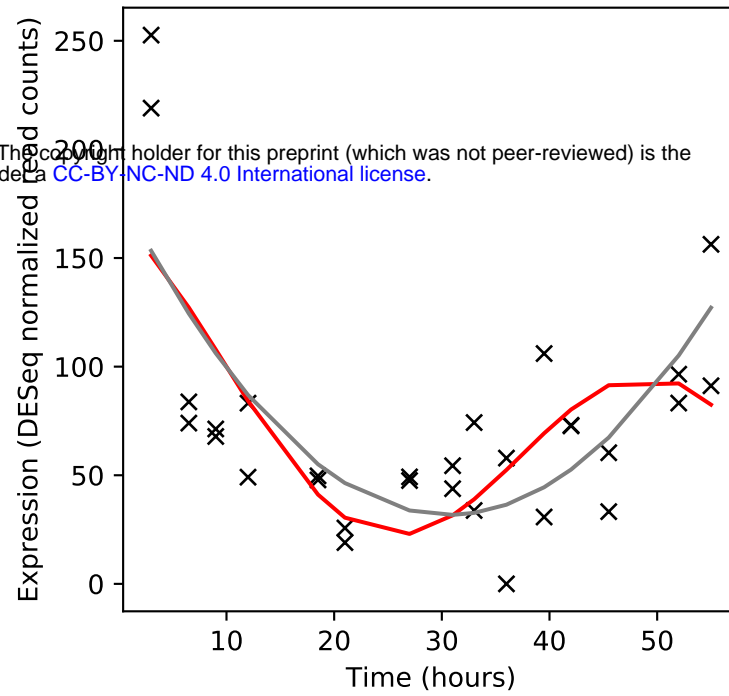
Rv2562/-



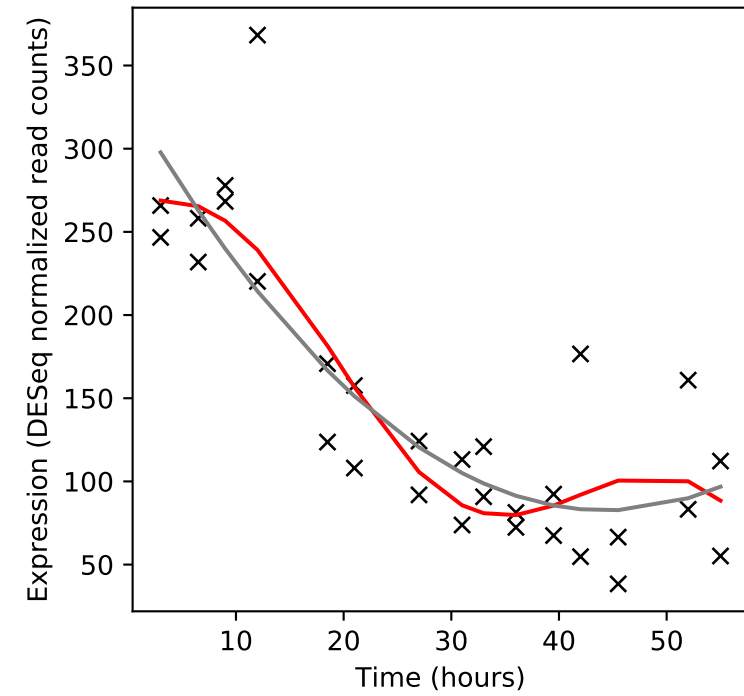
Rv2563/-



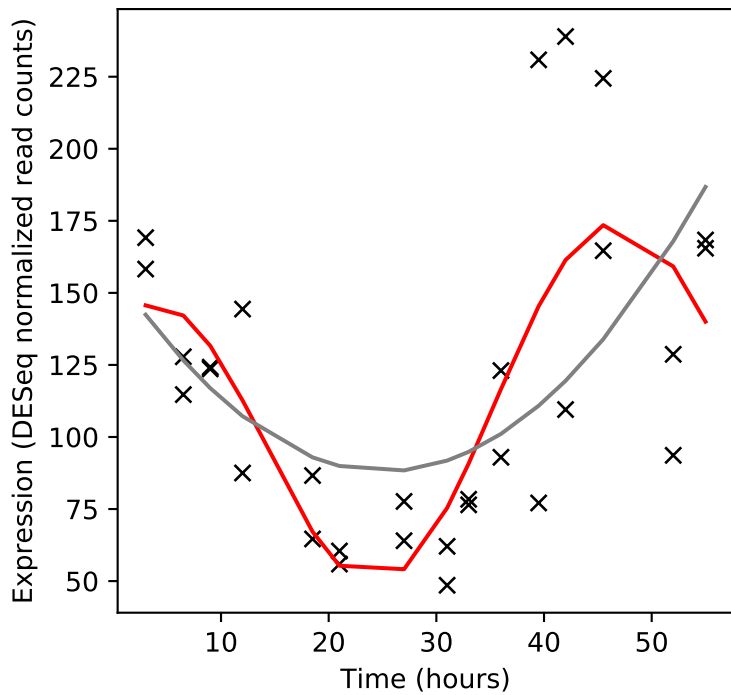
Rv2564/glnQ



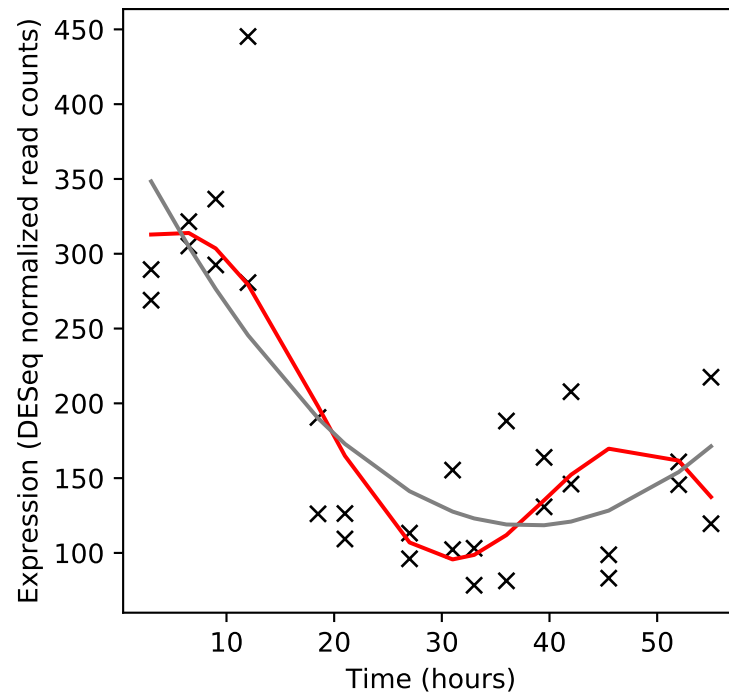
Rv2565/-



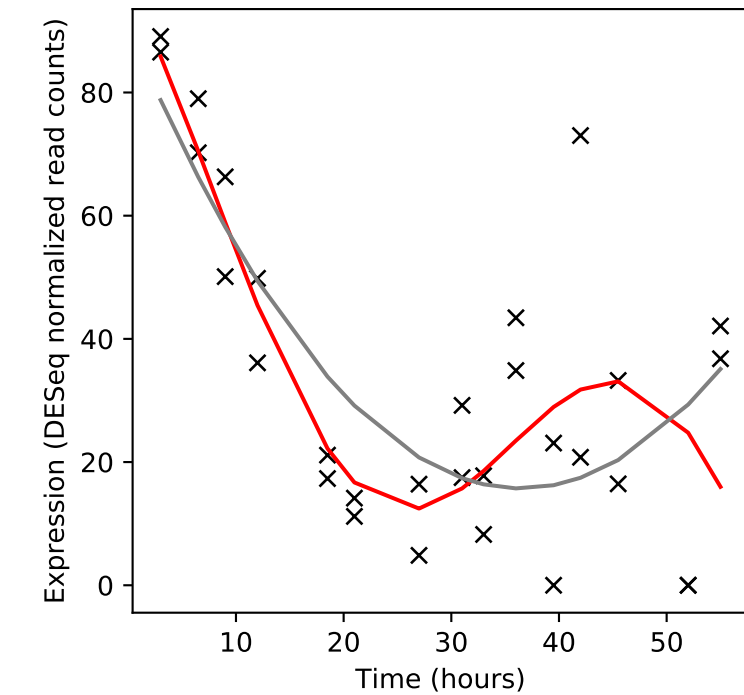
Rv2566/-



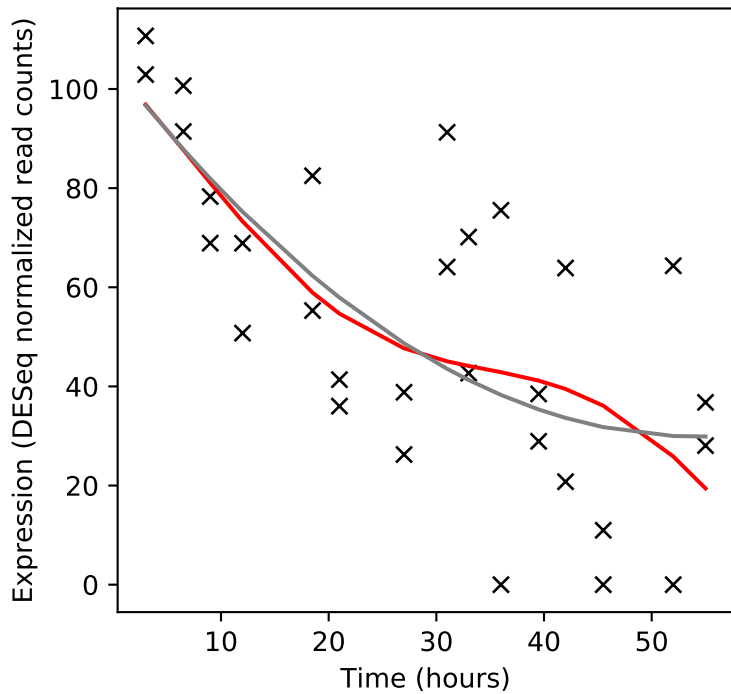
Rv2567/-



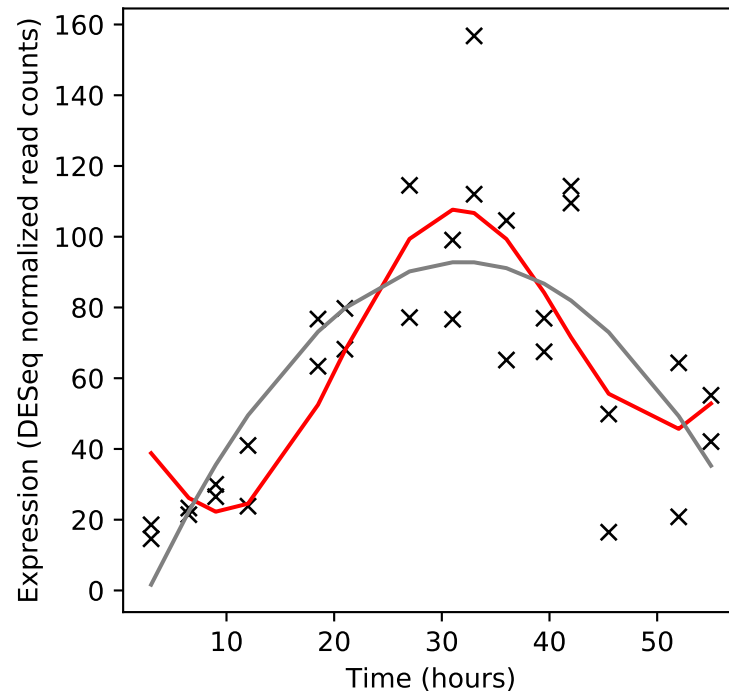
Rv2568c/-



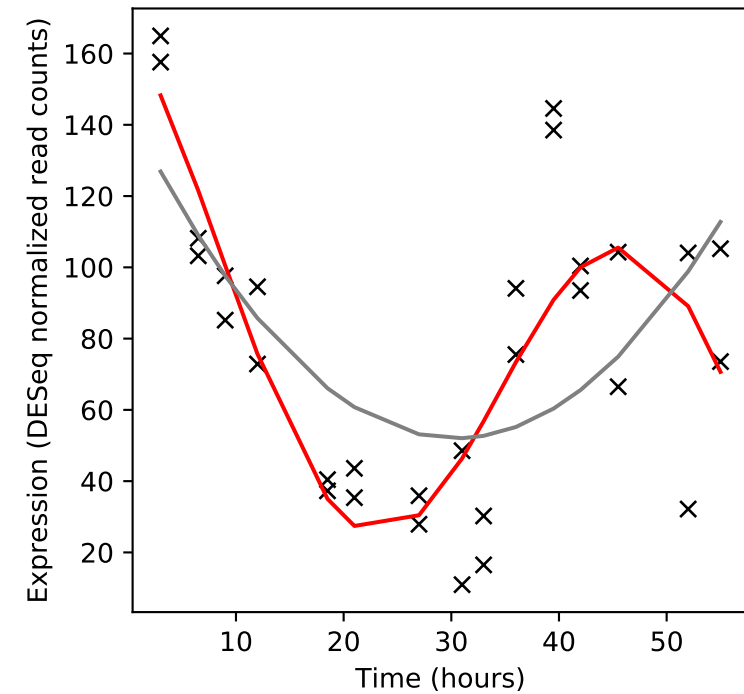
Rv2569c/-



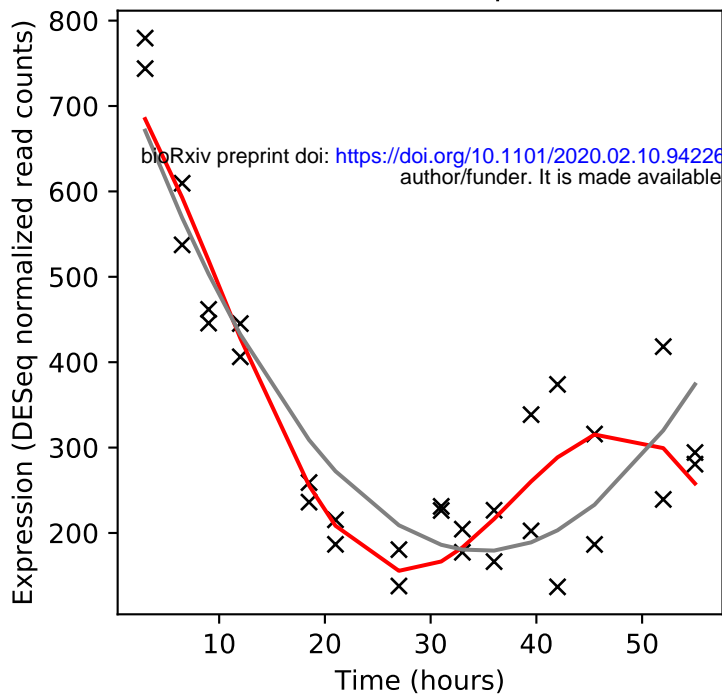
Rv2570/-



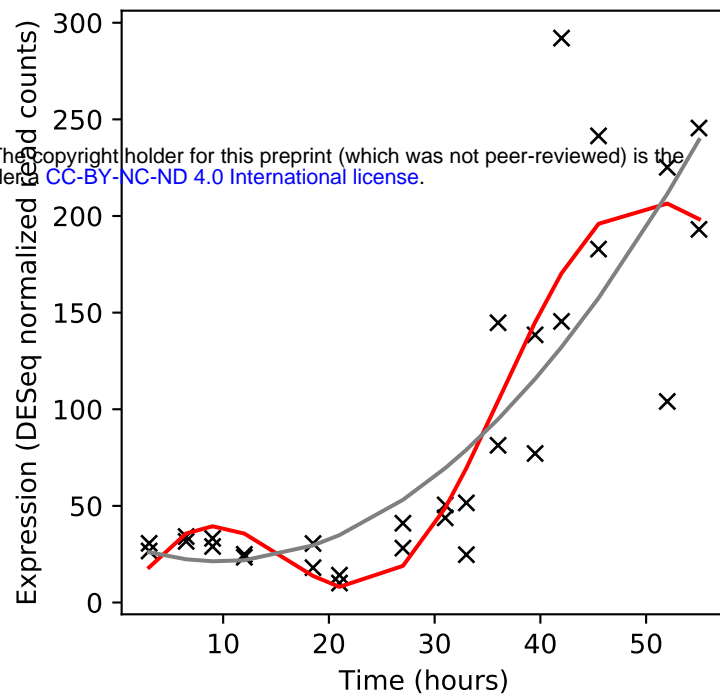
Rv2571c/-



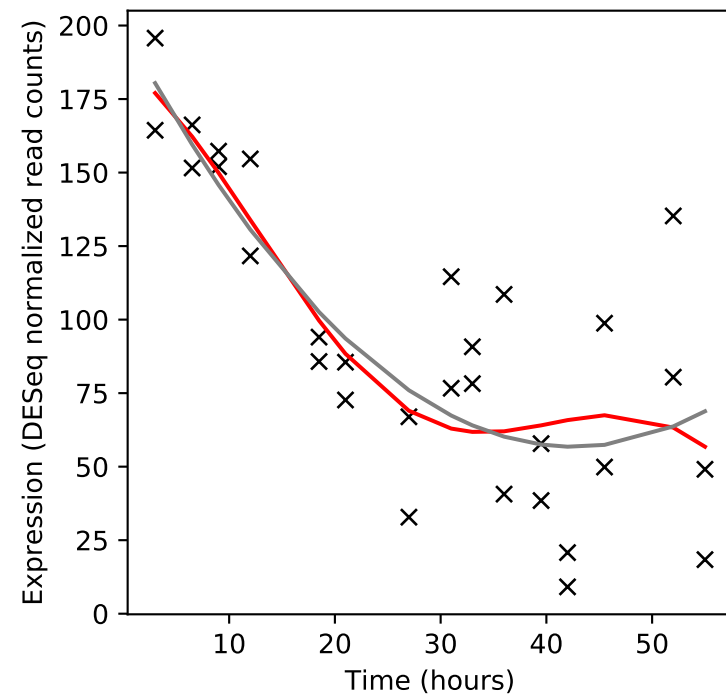
Rv2572c/aspS



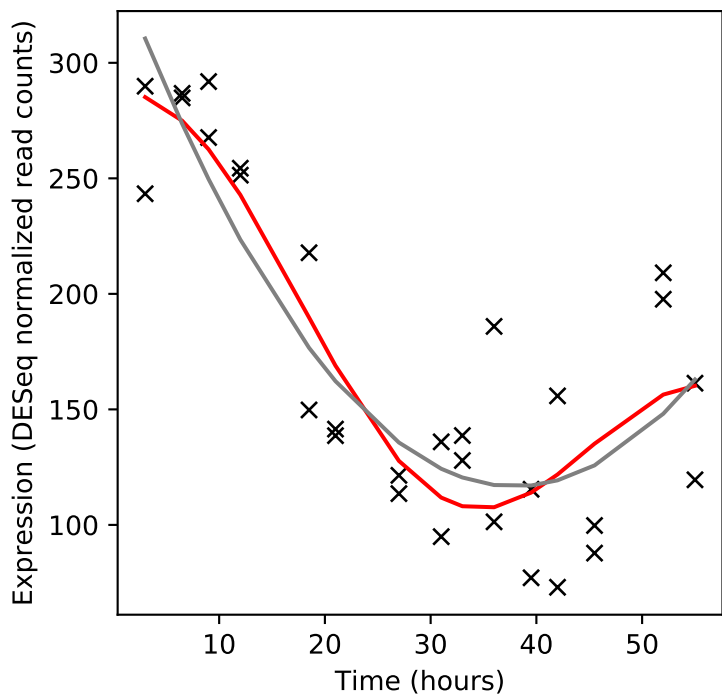
Rv2573/-



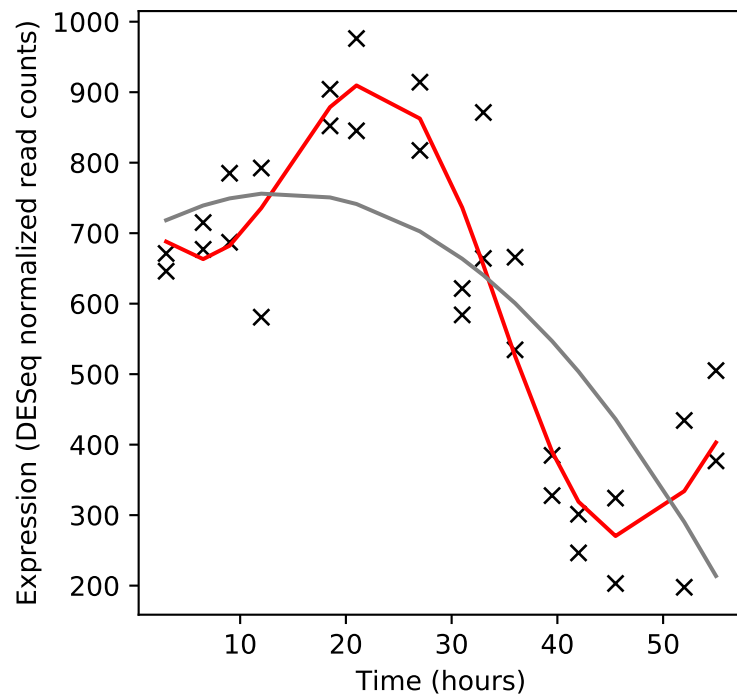
Rv2574/-



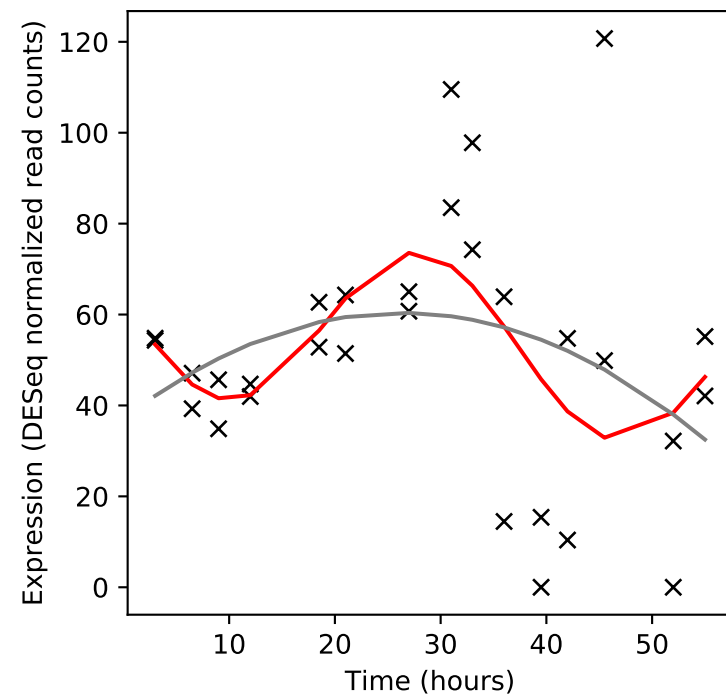
Rv2575/-



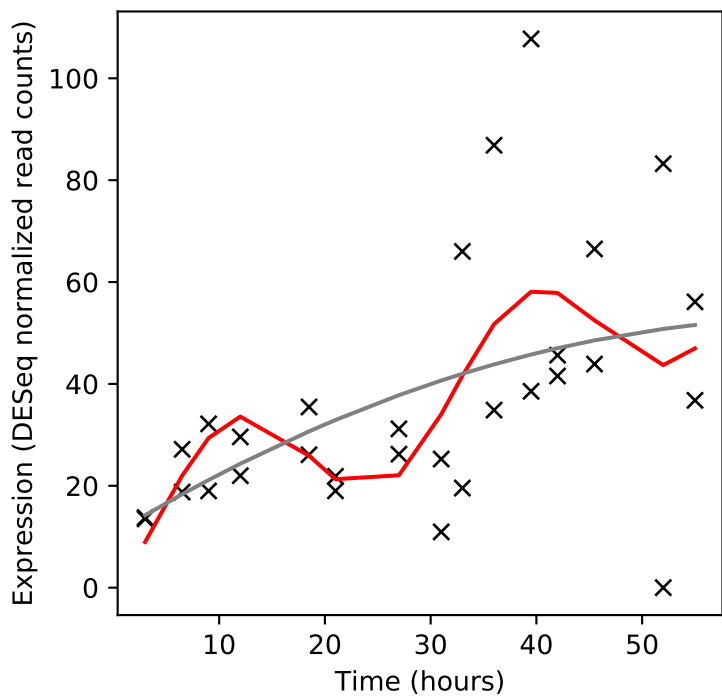
Rv2576c/-



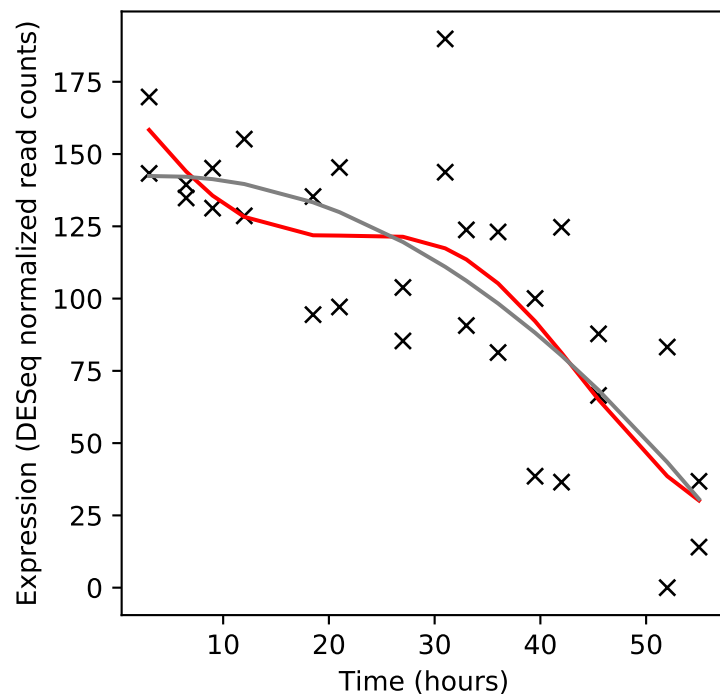
Rv2577/-



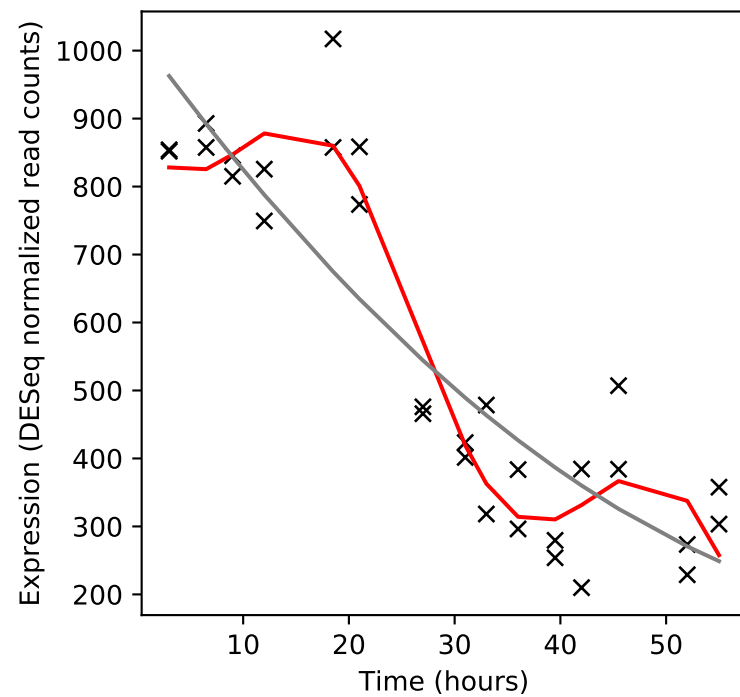
Rv2578c/-



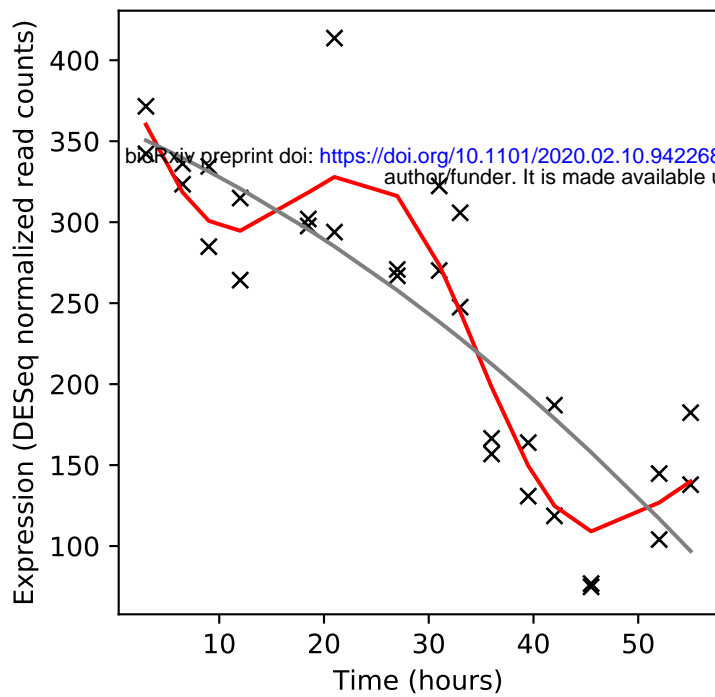
Rv2579/dhaA



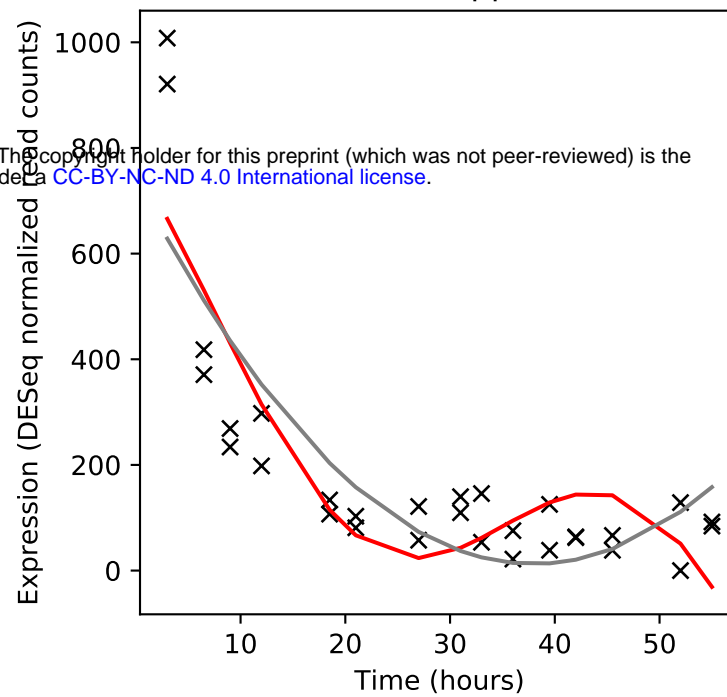
Rv2580c/hisS



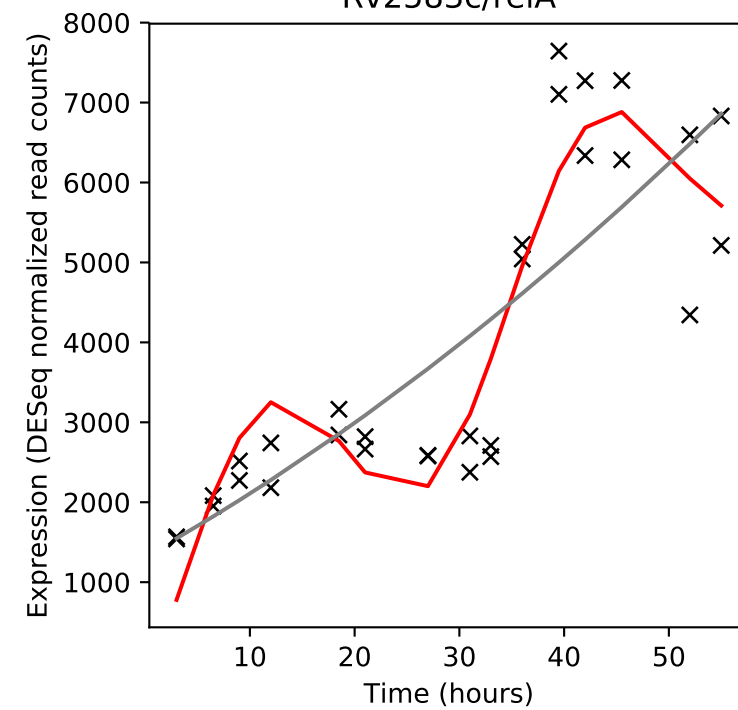
Rv2581c/-



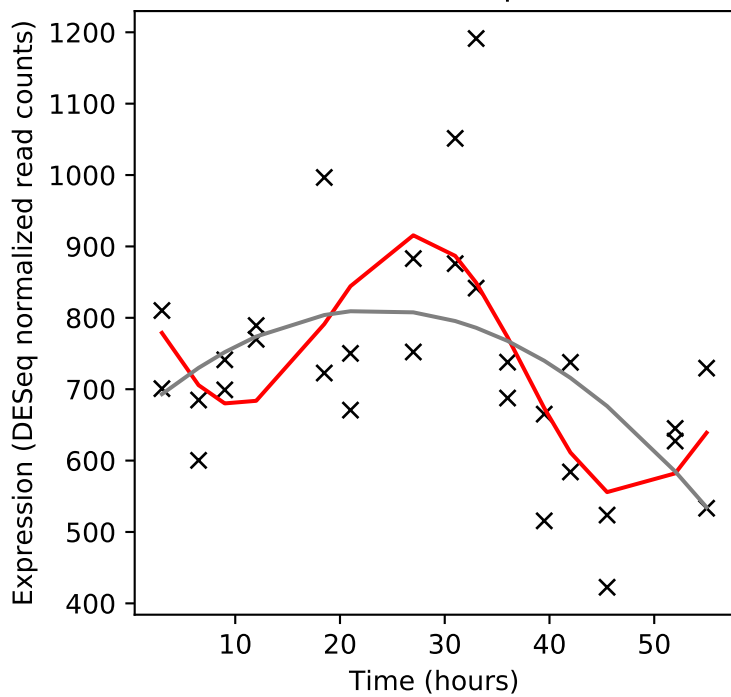
Rv2582/ppiB



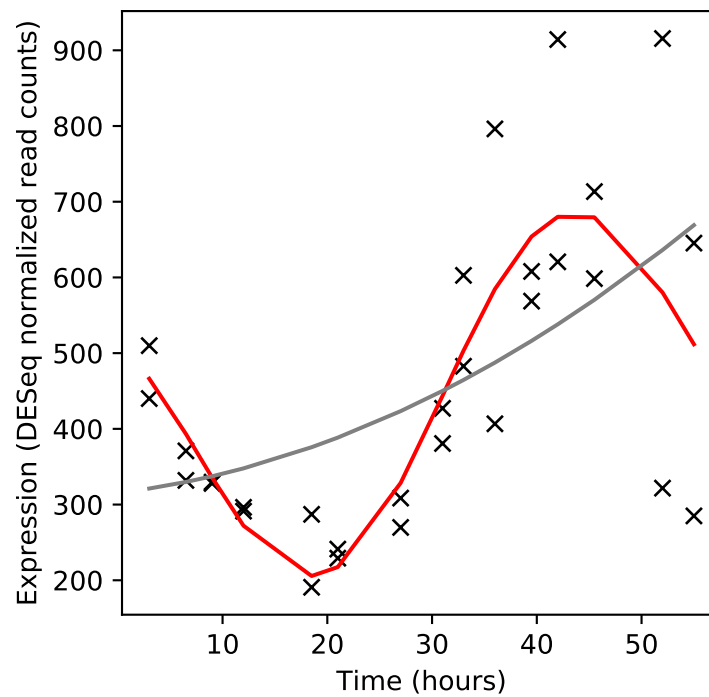
Rv2583c/relA



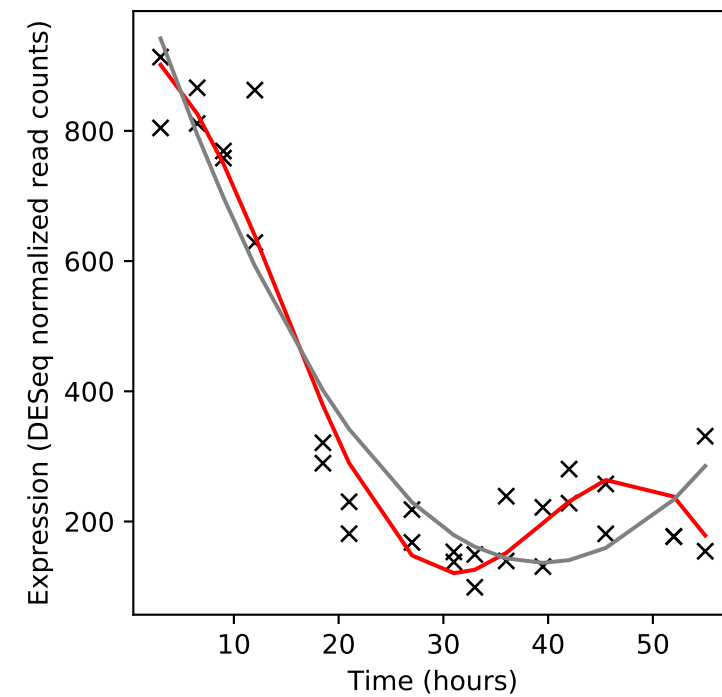
Rv2584c/apt



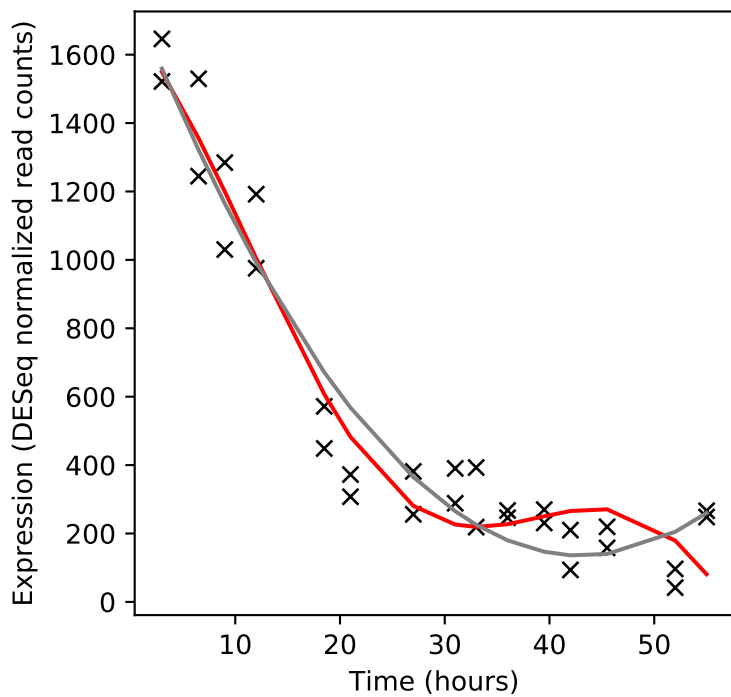
Rv2585c/-



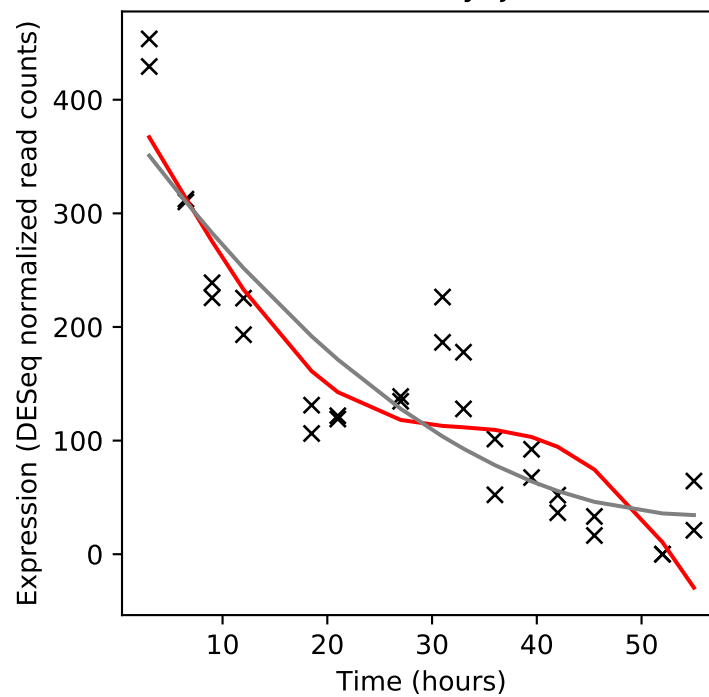
Rv2586c/secF



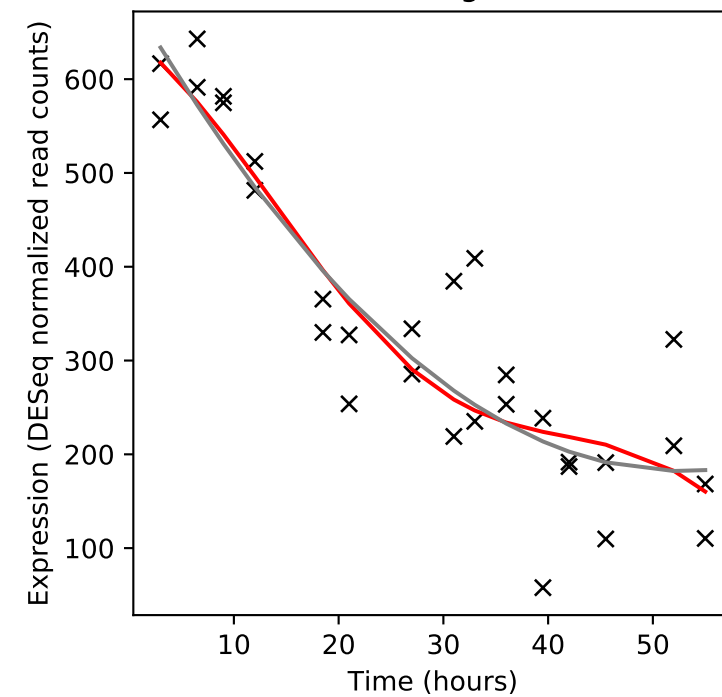
Rv2587c/secD



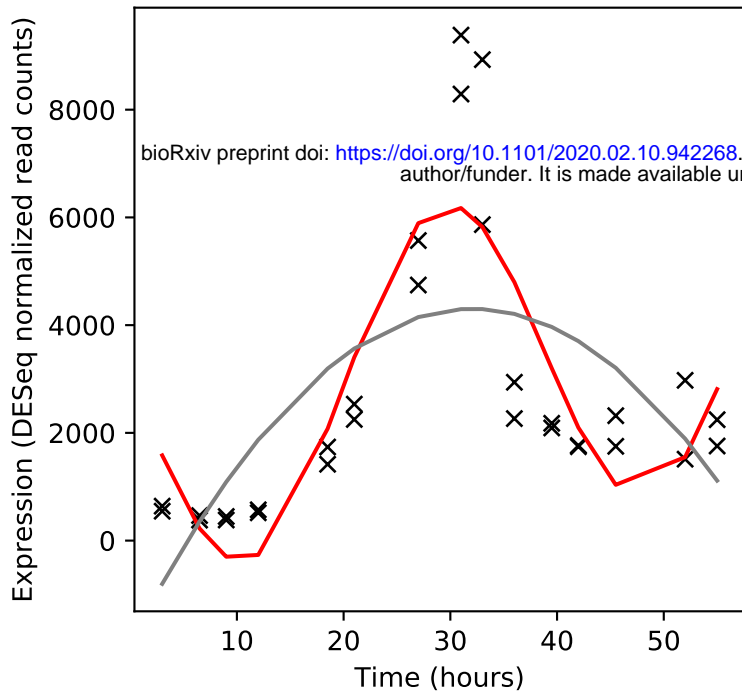
Rv2588c/yajC



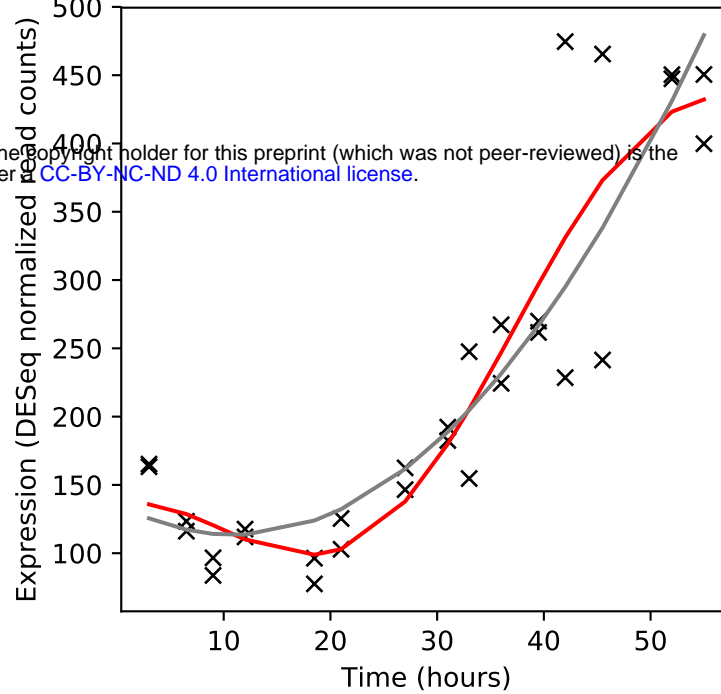
Rv2589/gabT



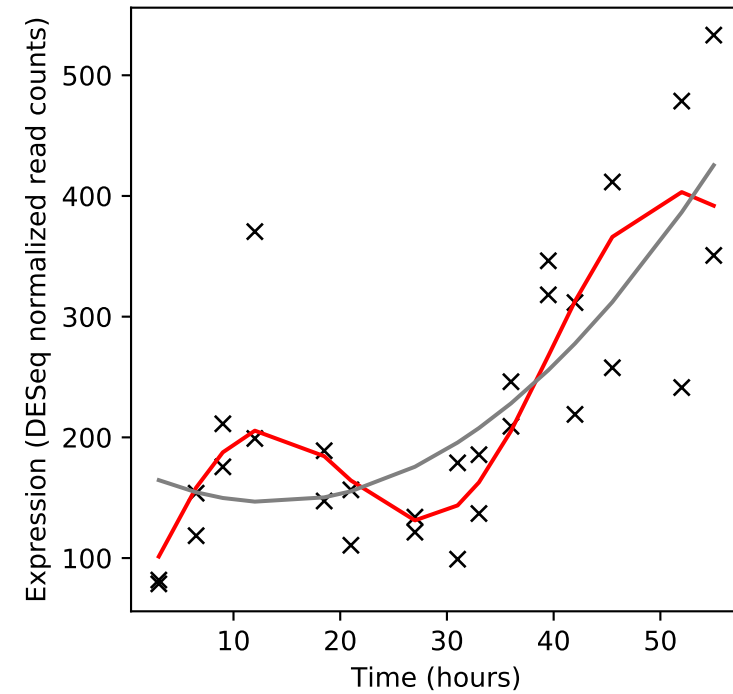
Rv2590/fadD9



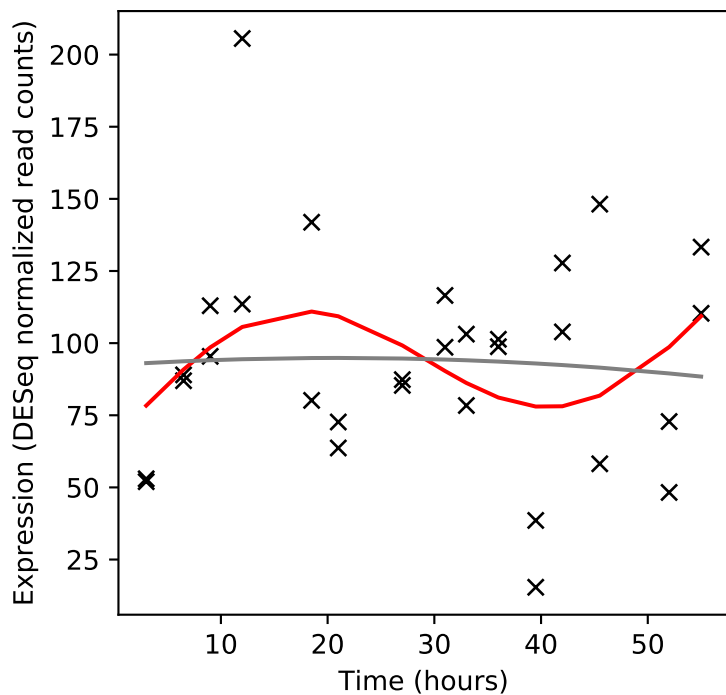
Rv2591/PE_PGRS44



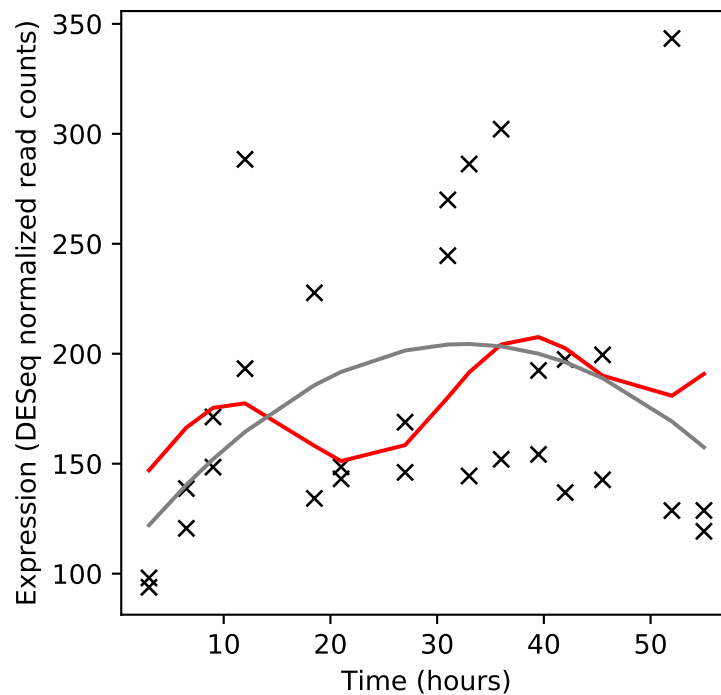
Rv2592c/ruvB



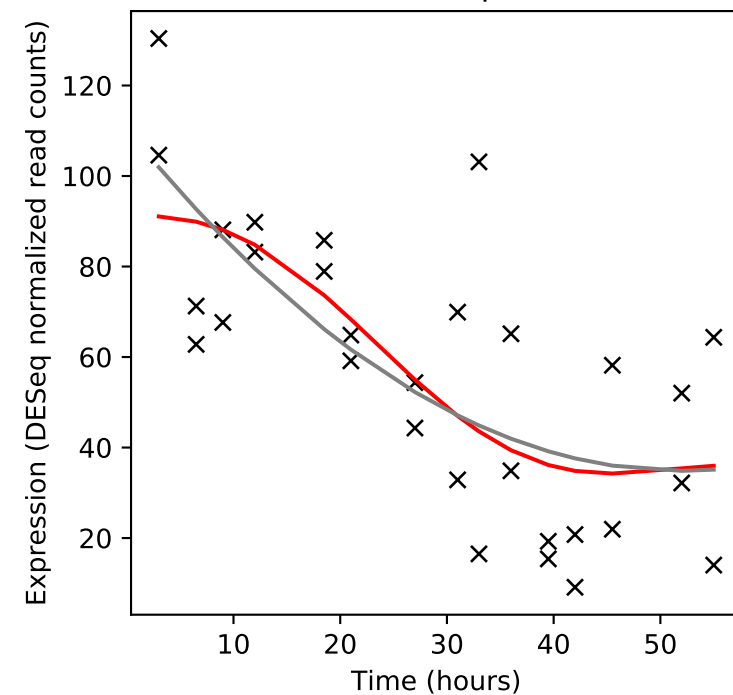
Rv2593c/ruvA



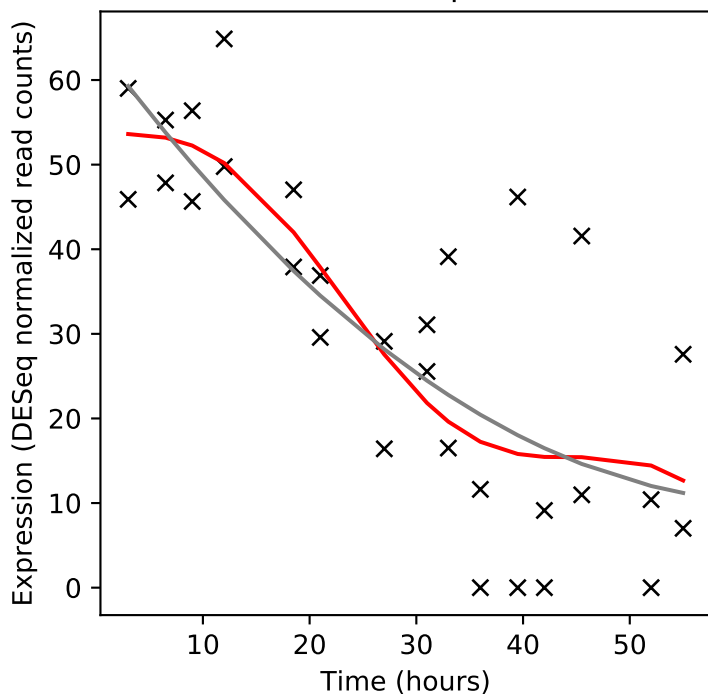
Rv2594c/ruvC



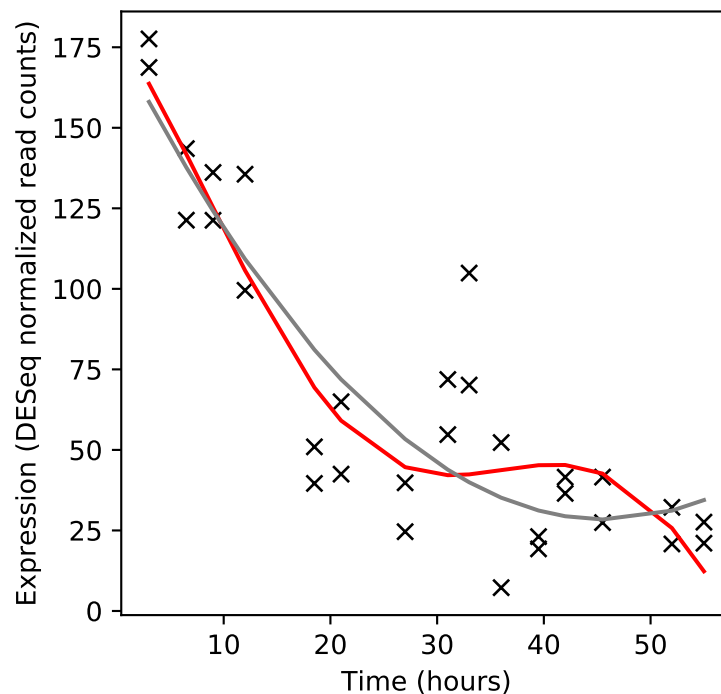
Rv2595/vapB40



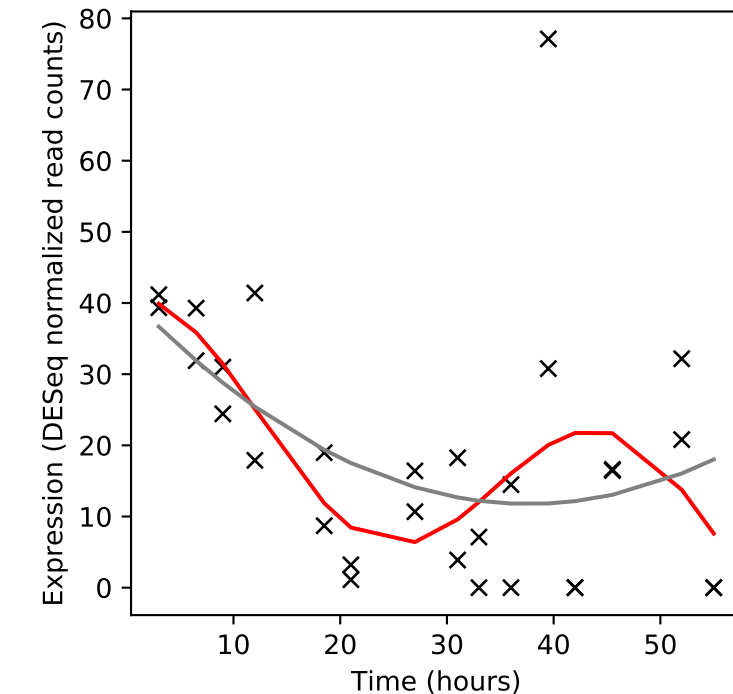
Rv2596/vapC40



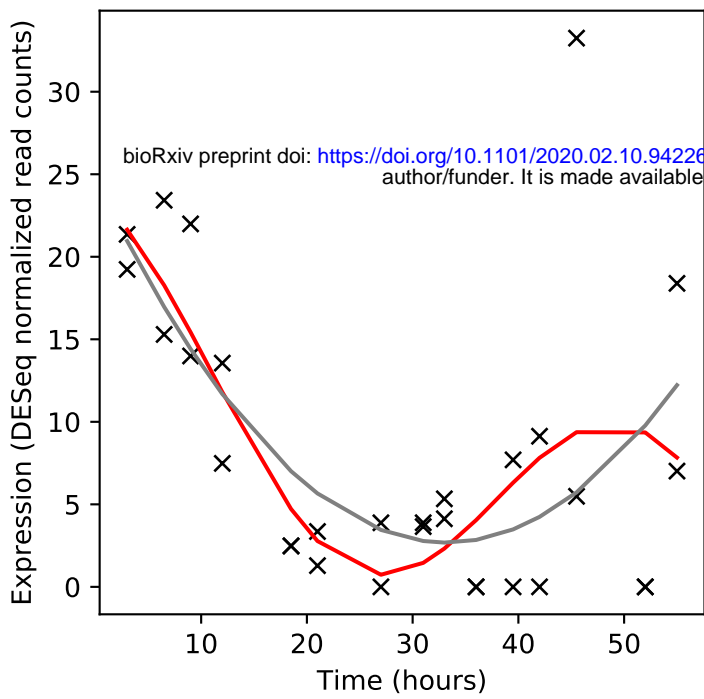
Rv2597/-



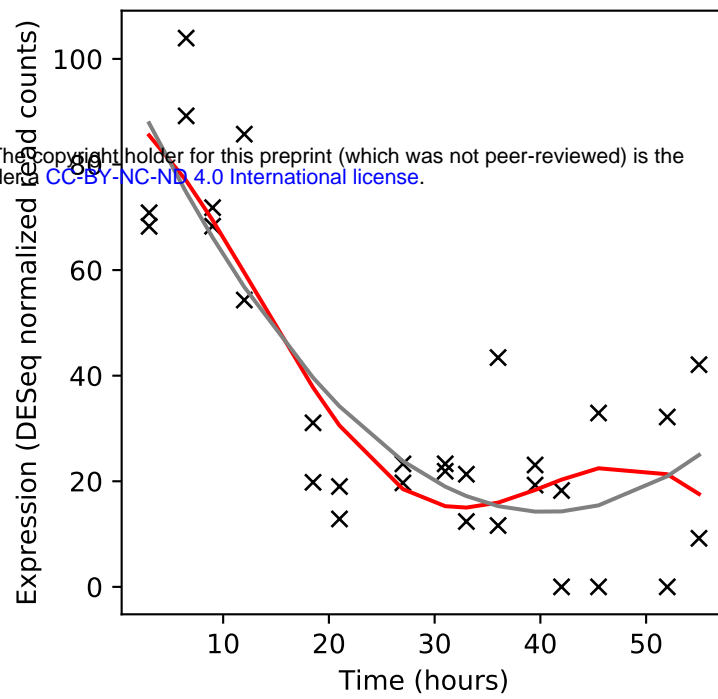
Rv2598/-



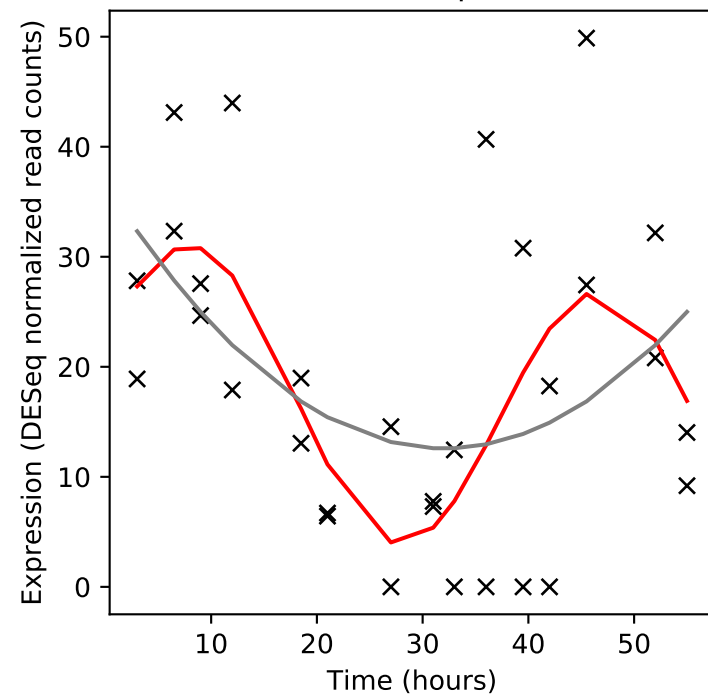
Rv2599/-



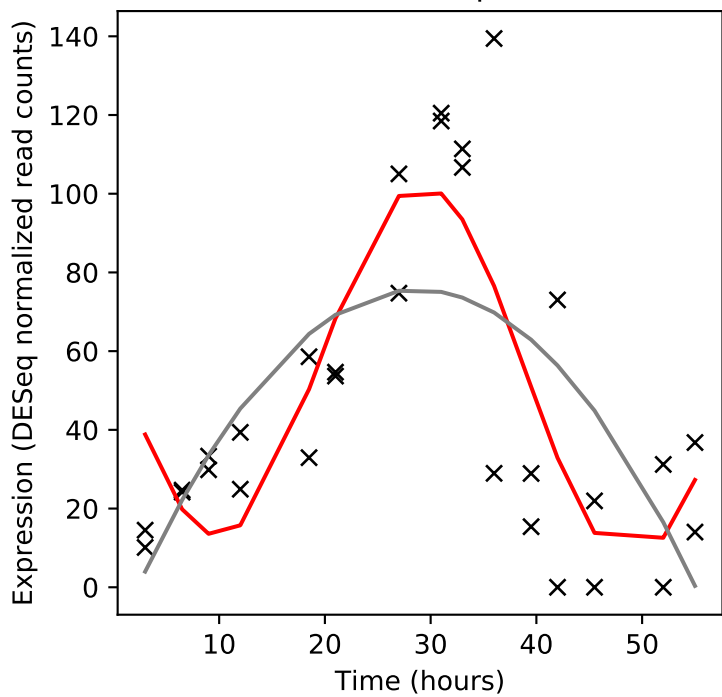
Rv2600/-



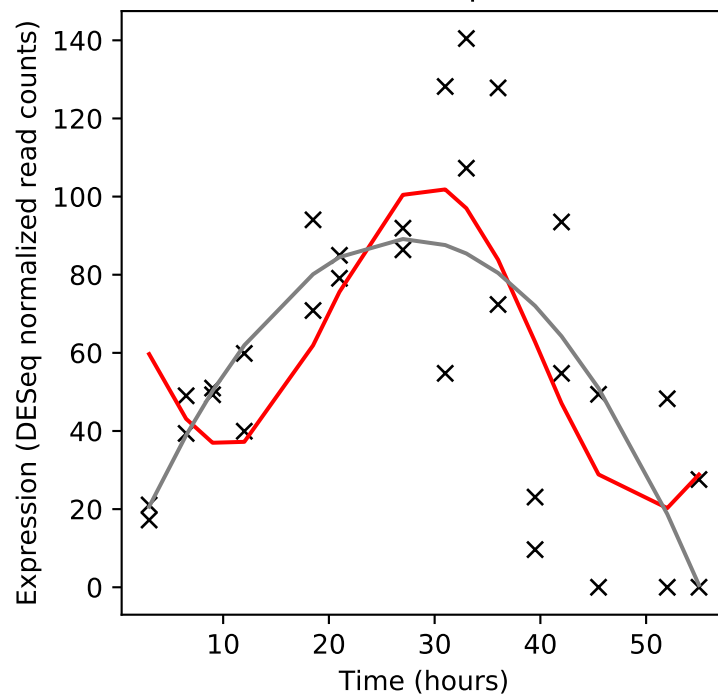
Rv2601/speE



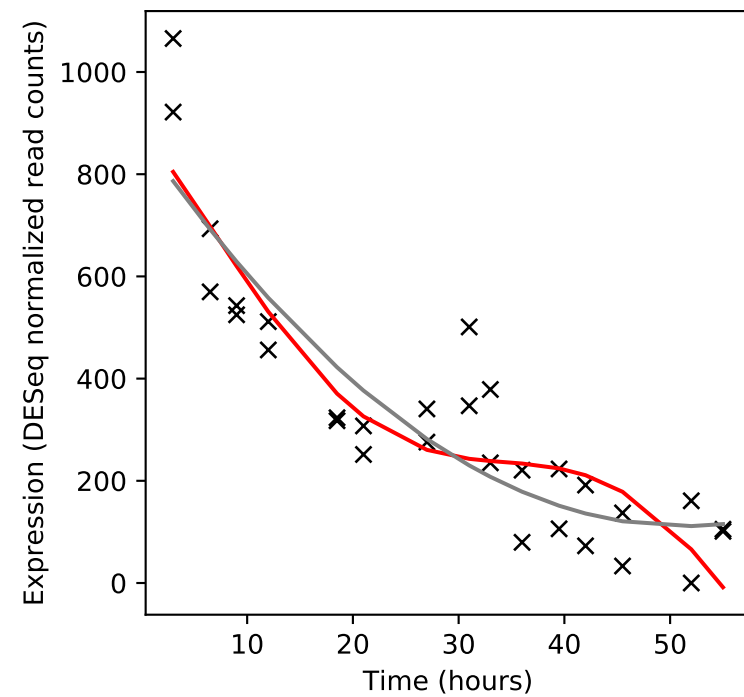
Rv2601A/vapB41



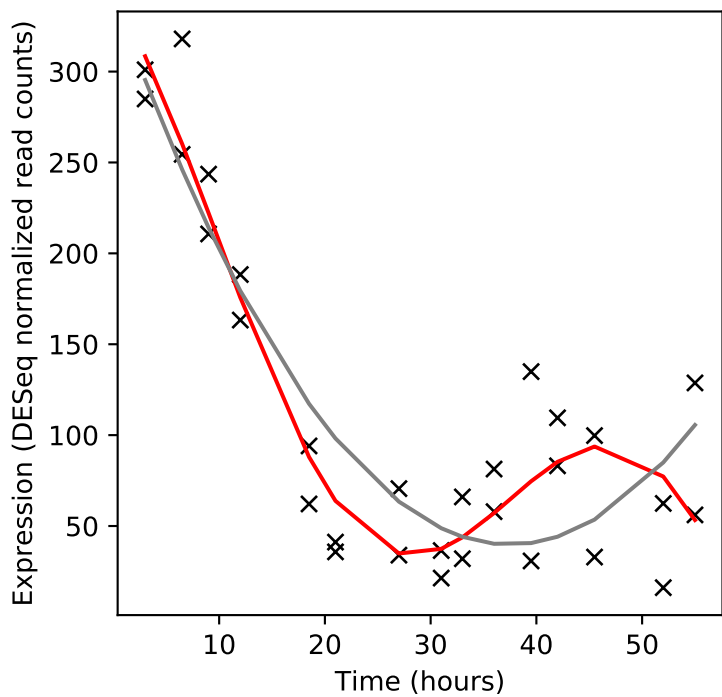
Rv2602/vapC41



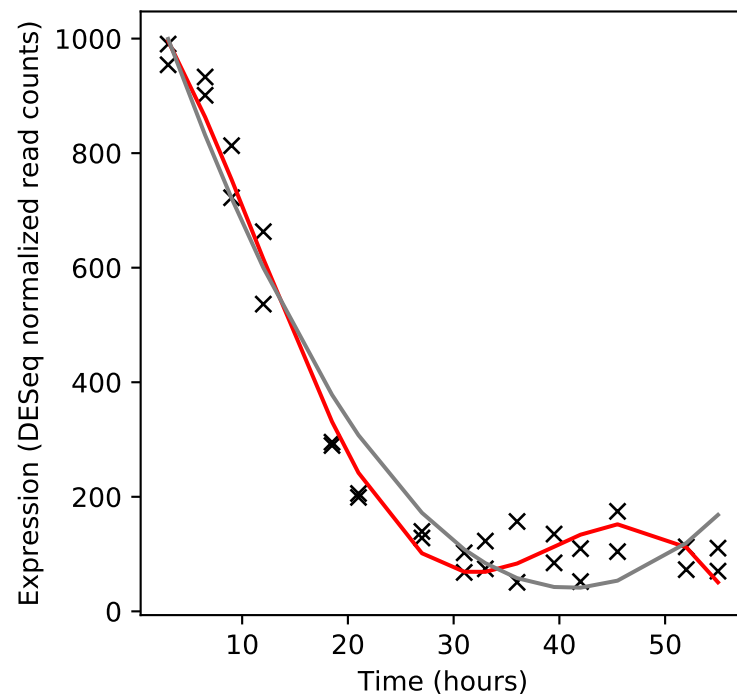
Rv2603c/-



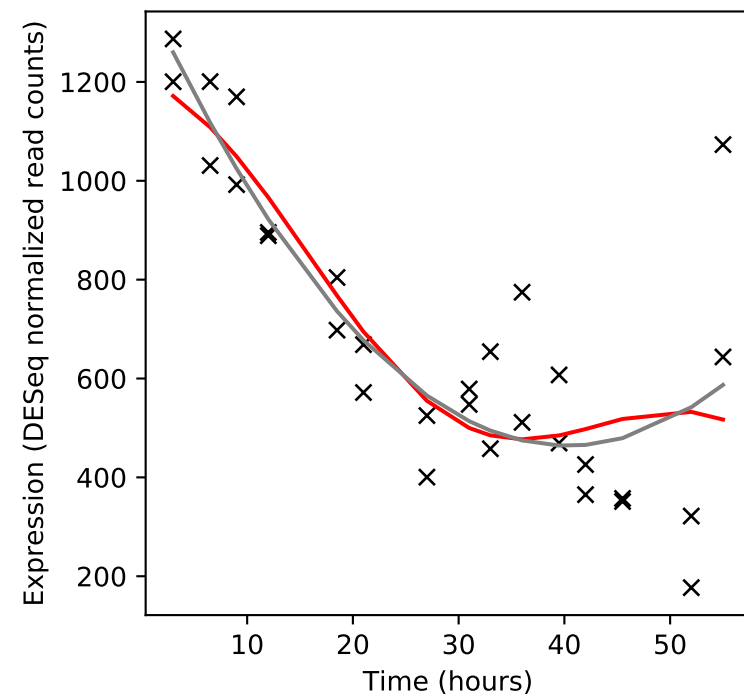
Rv2604c/snoP



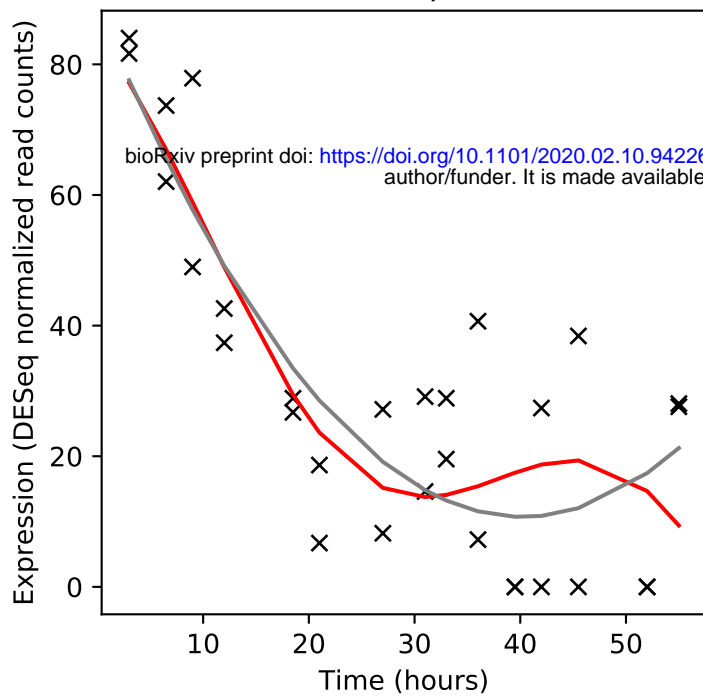
Rv2605c/tesB2



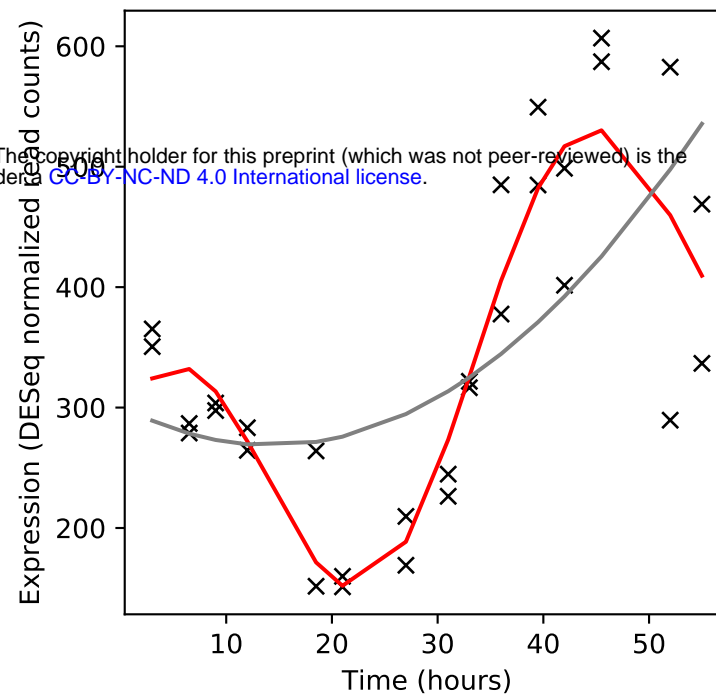
Rv2606c/snzP



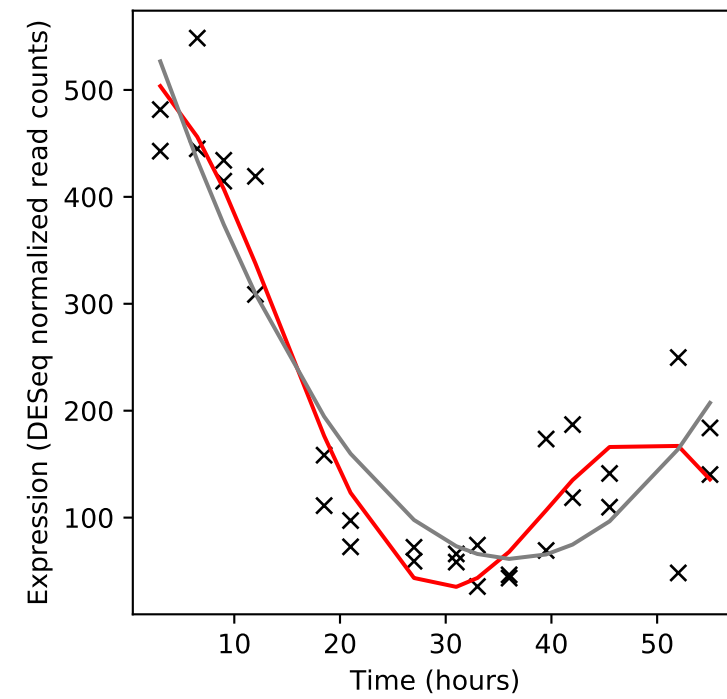
Rv2607/pdxH



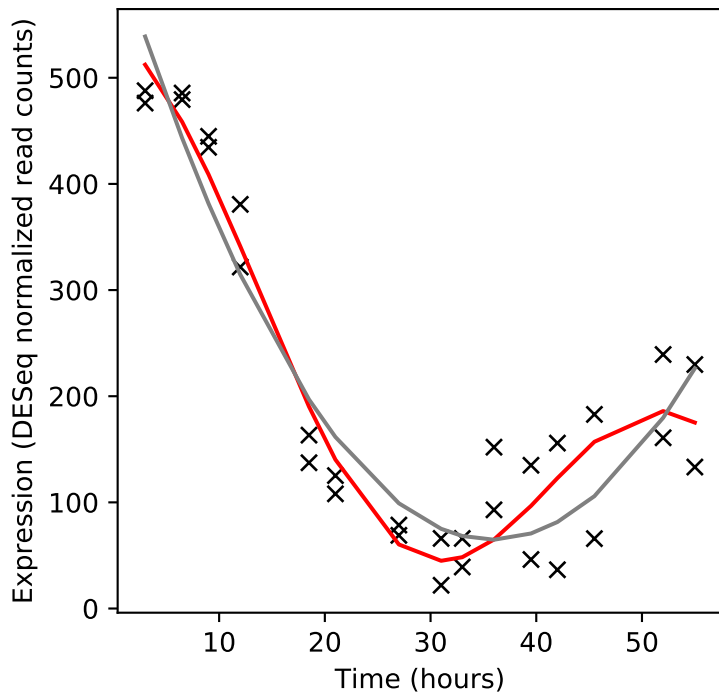
Rv2608/PPE42



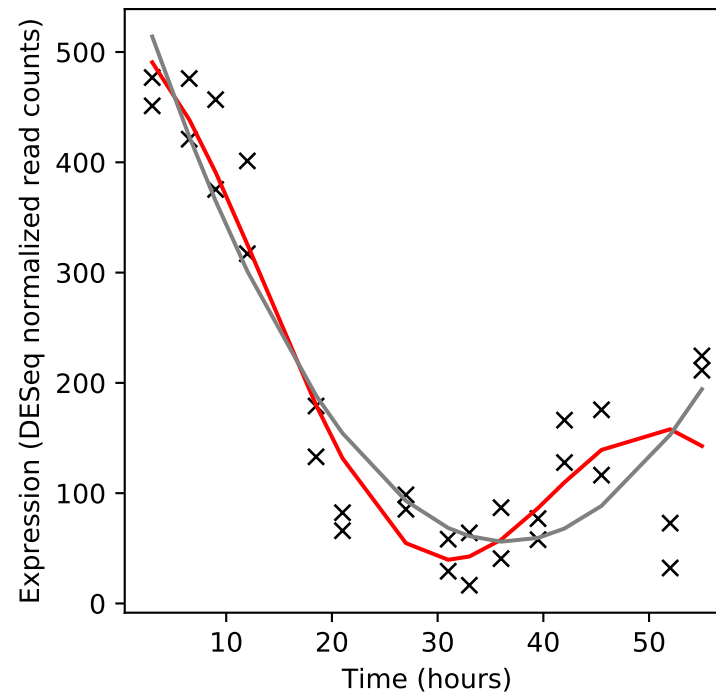
Rv2609c/-



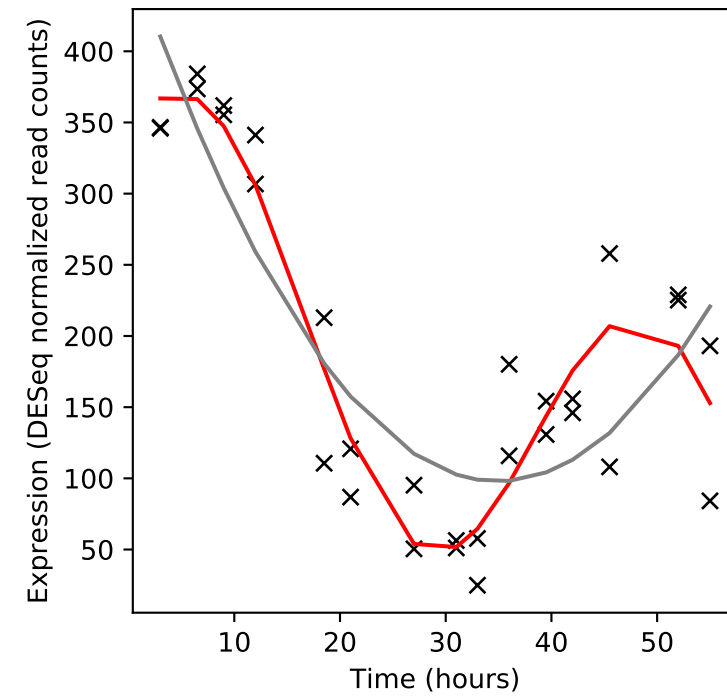
Rv2610c/pimA



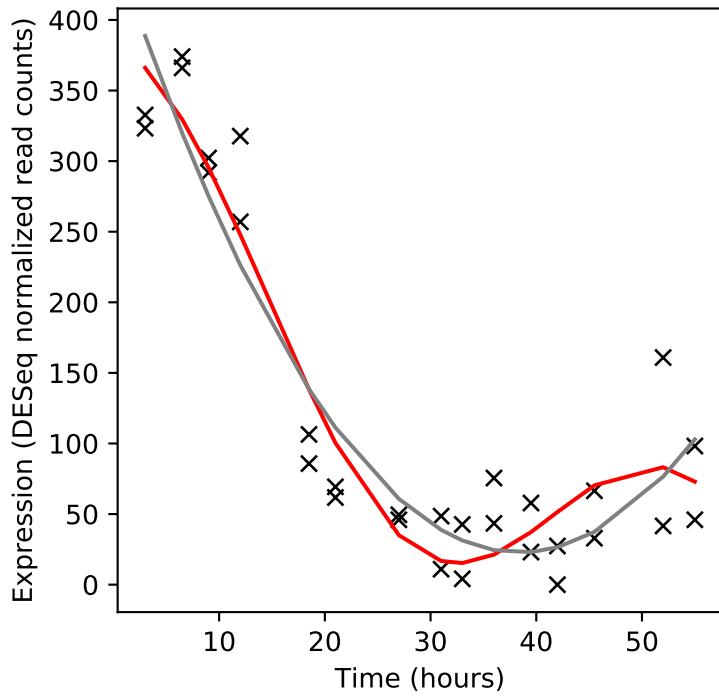
Rv2611c/-



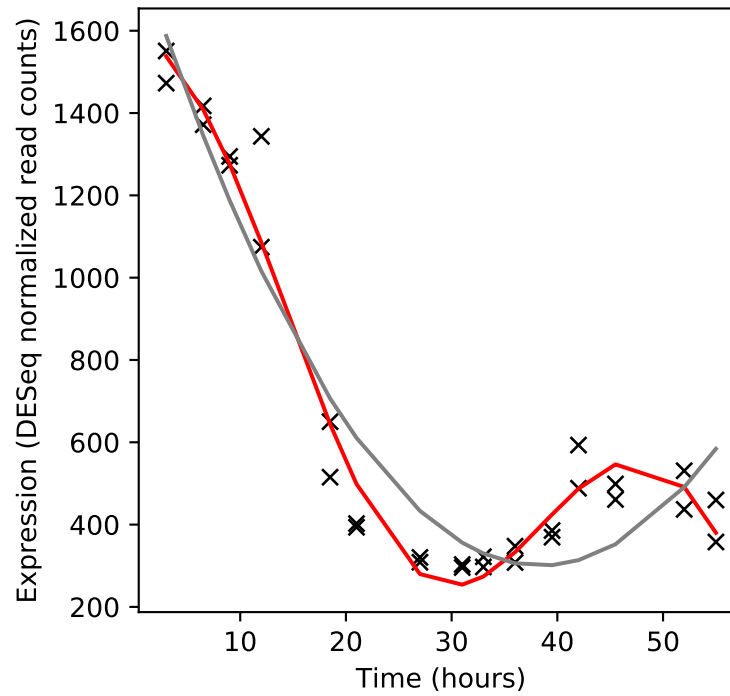
Rv2612c/pgsA1



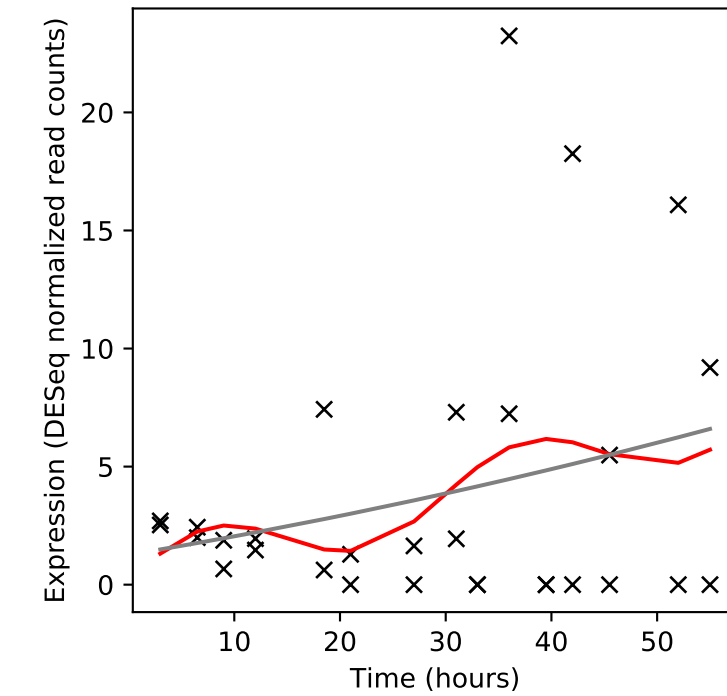
Rv2613c/-



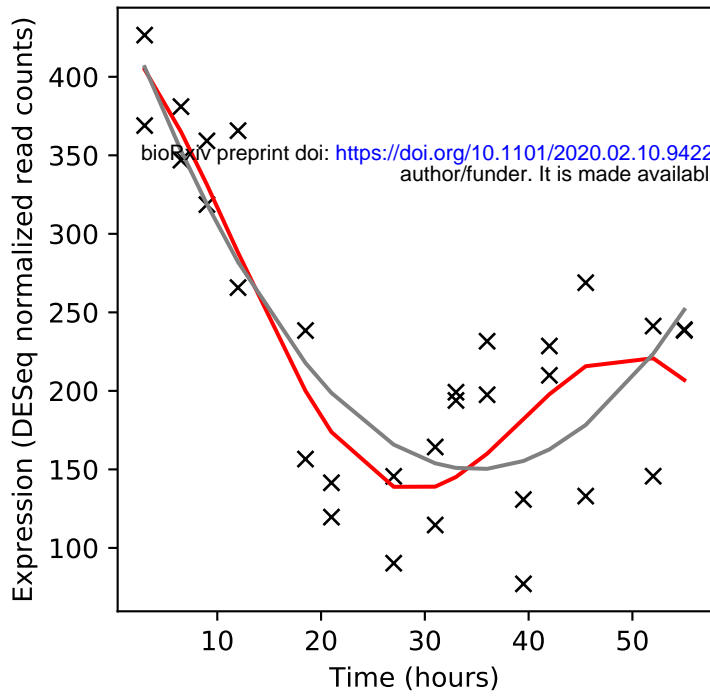
Rv2614c/thrS



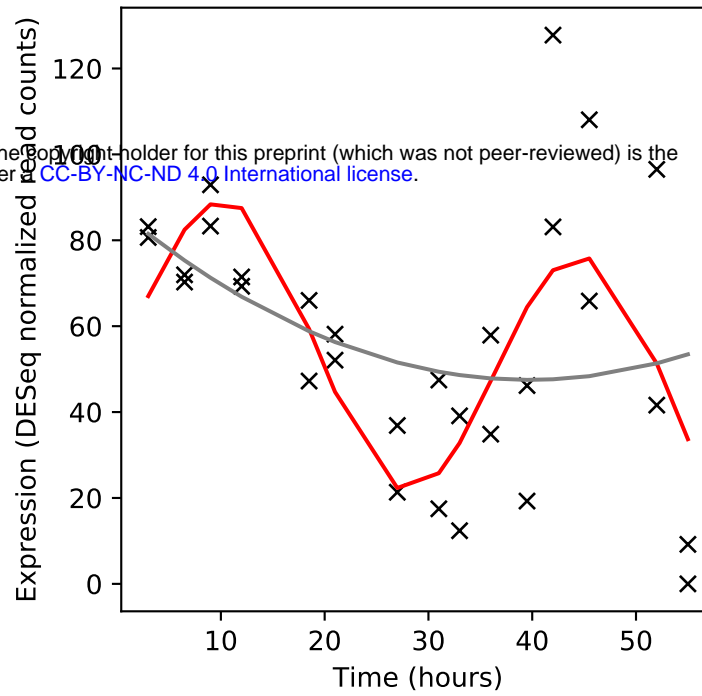
Rv2614A/-



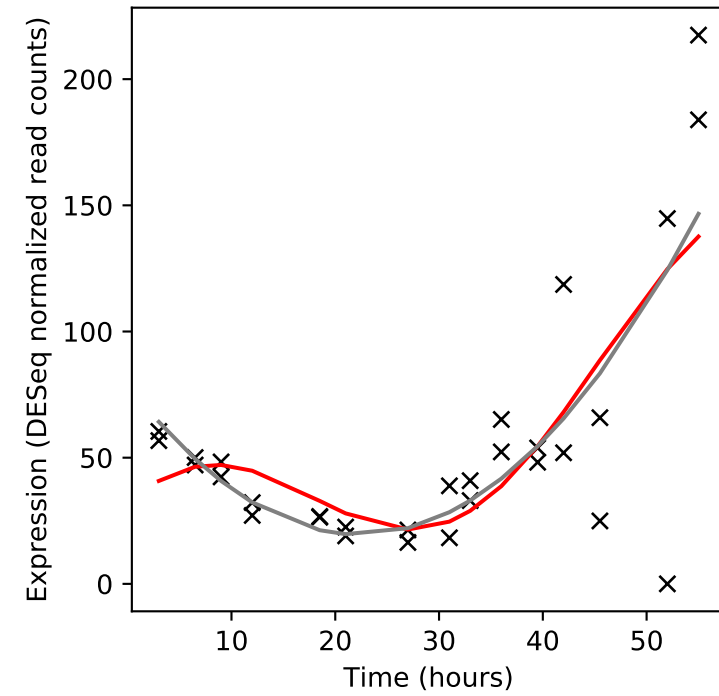
Rv2615c/PE_PGRS45



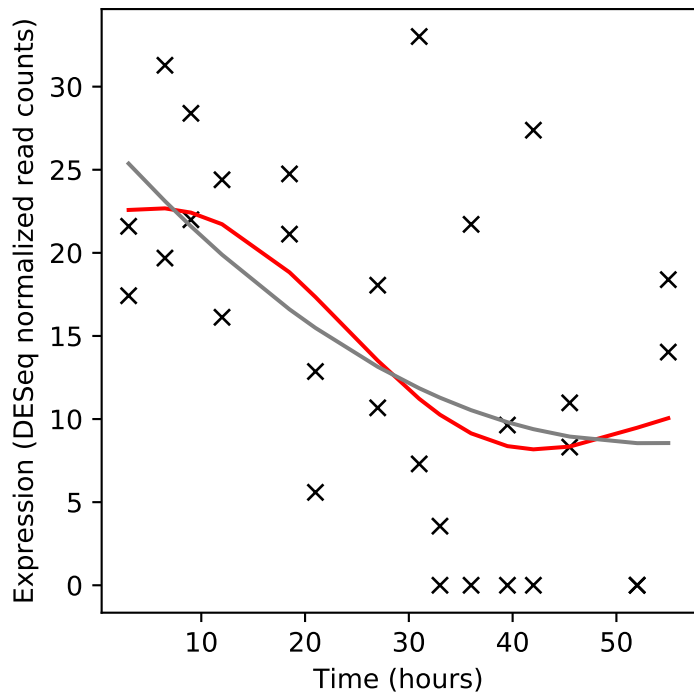
Rv2616/-



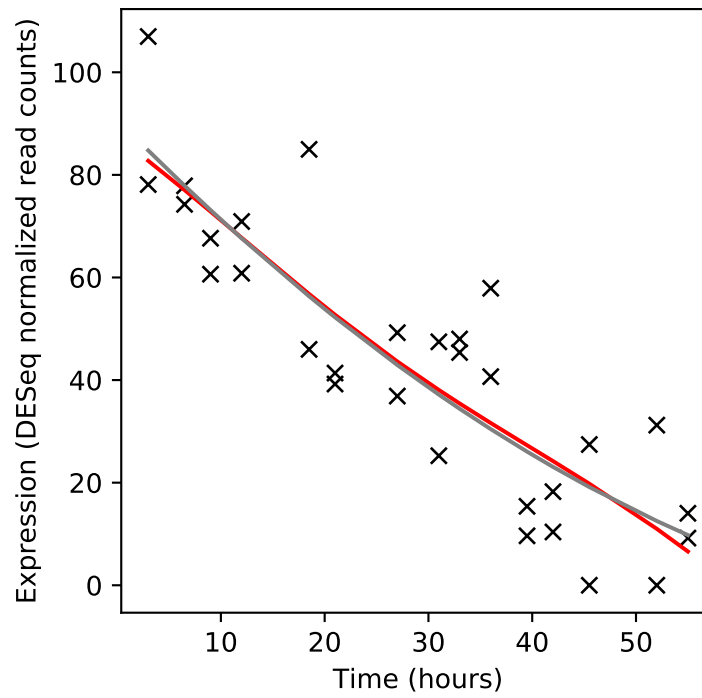
Rv2617c/-



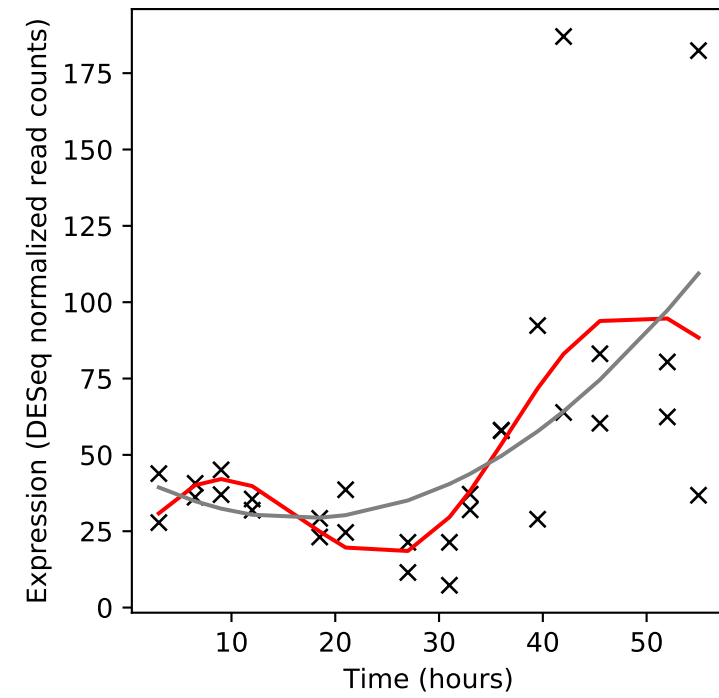
Rv2618/-



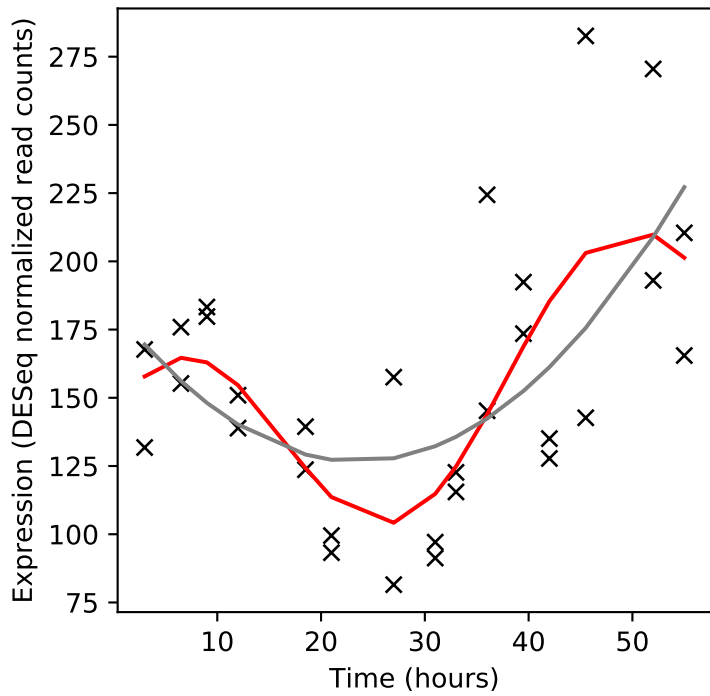
Rv2619c/-



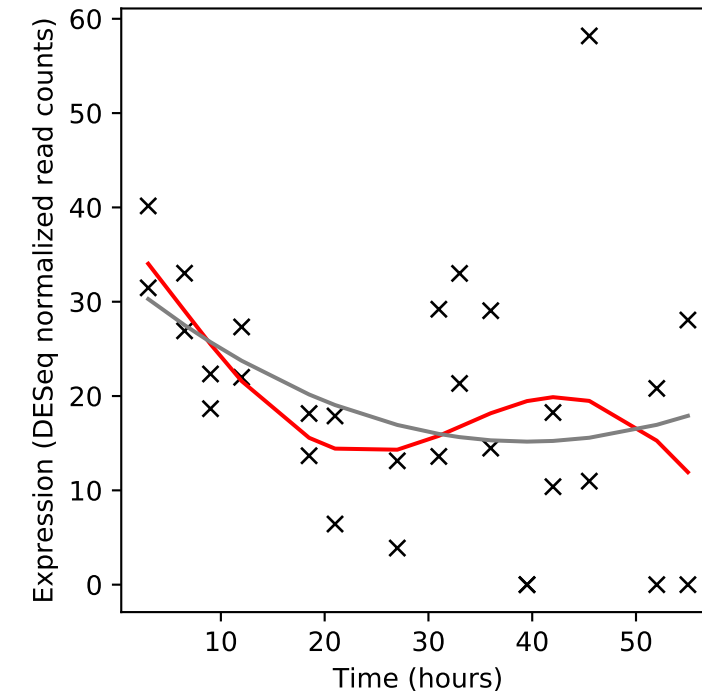
Rv2620c/-



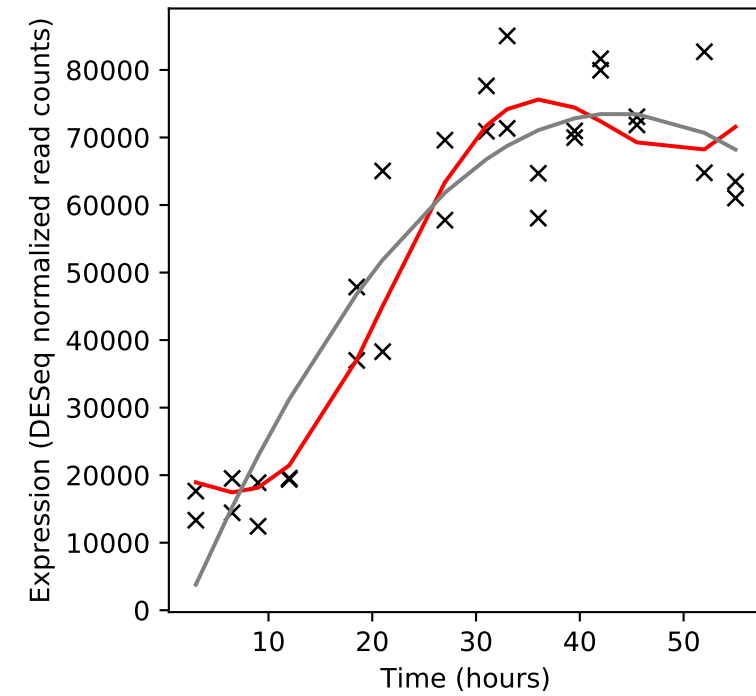
Rv2621c/-



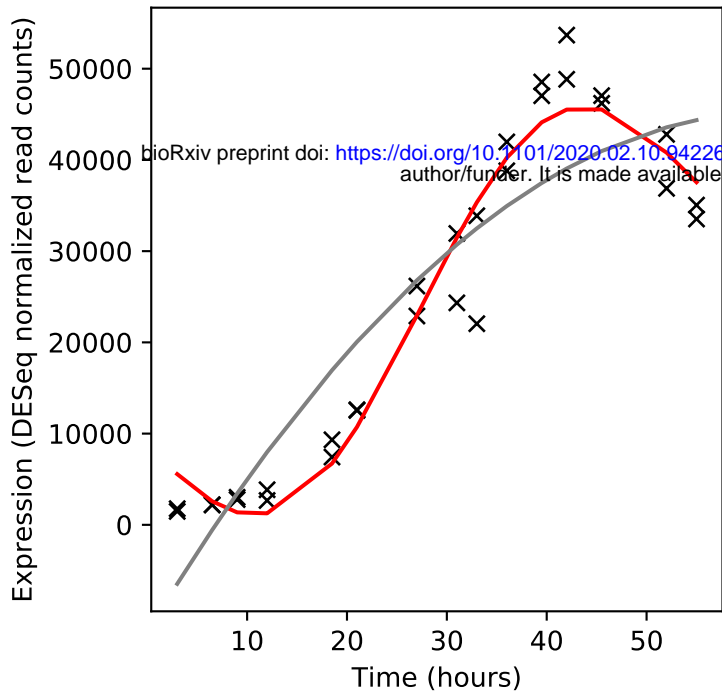
Rv2622/-



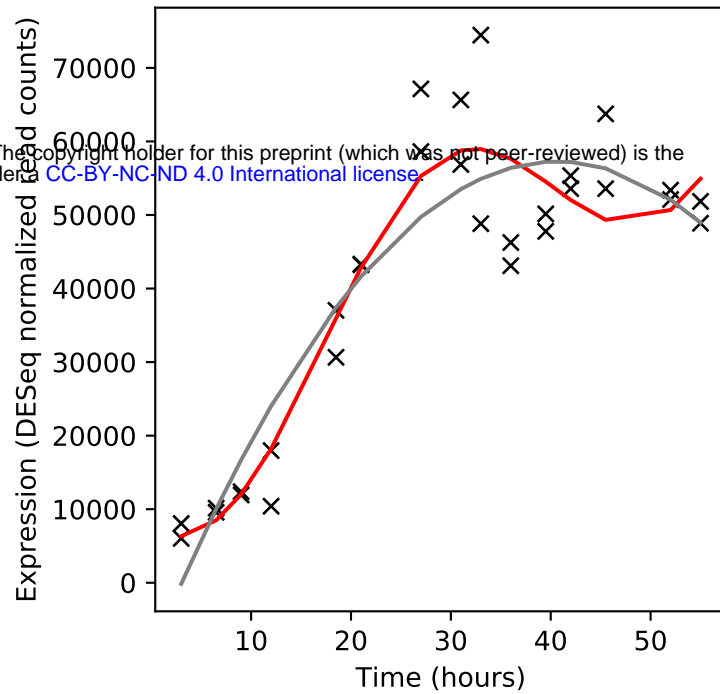
Rv2623/TB31.7



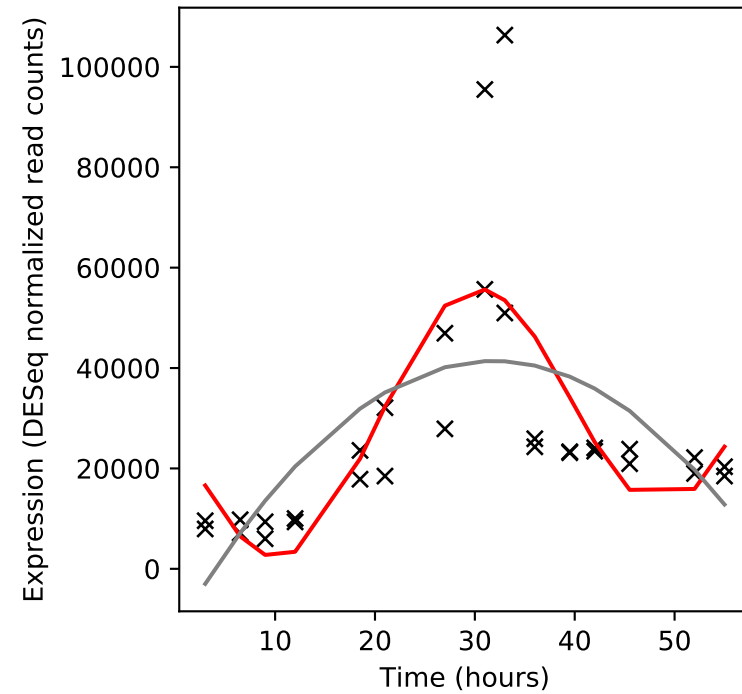
Rv2624c/-



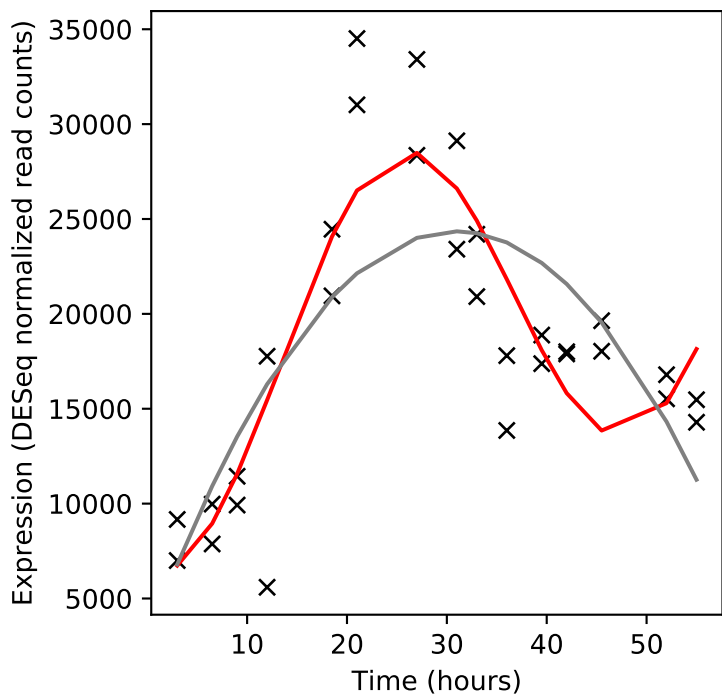
Rv2625c/-



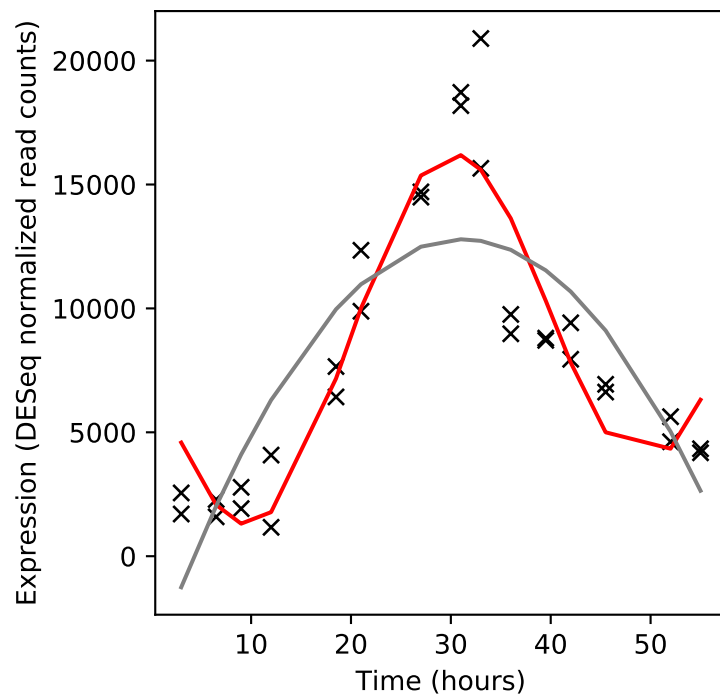
Rv2626c/hrp1



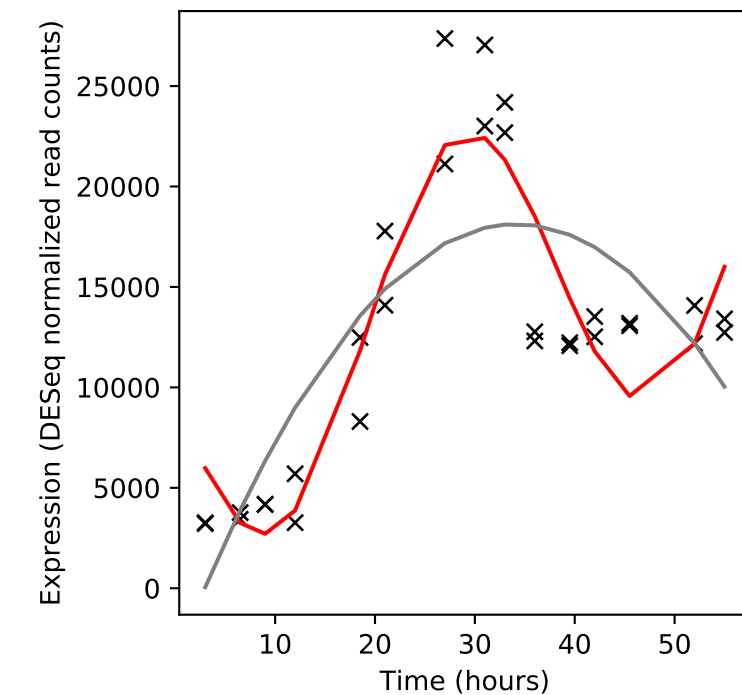
Rv2627c/-



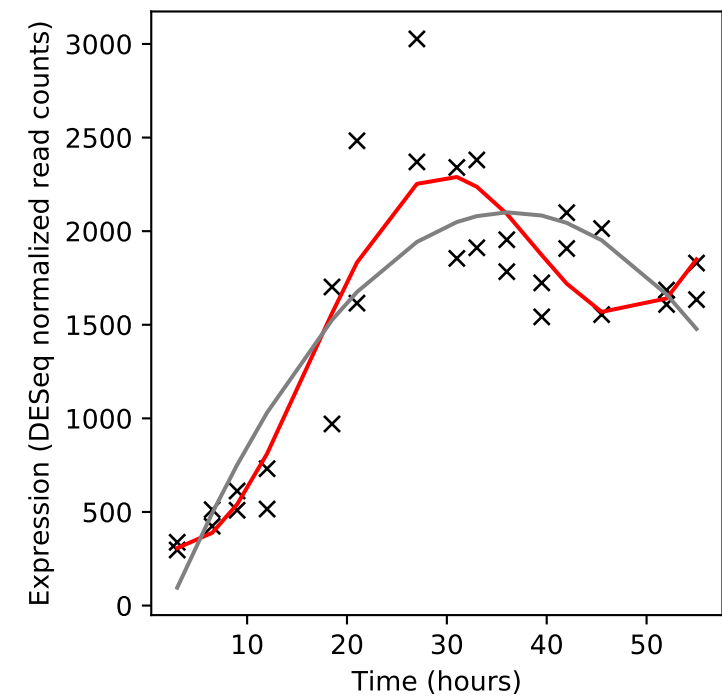
Rv2628/-



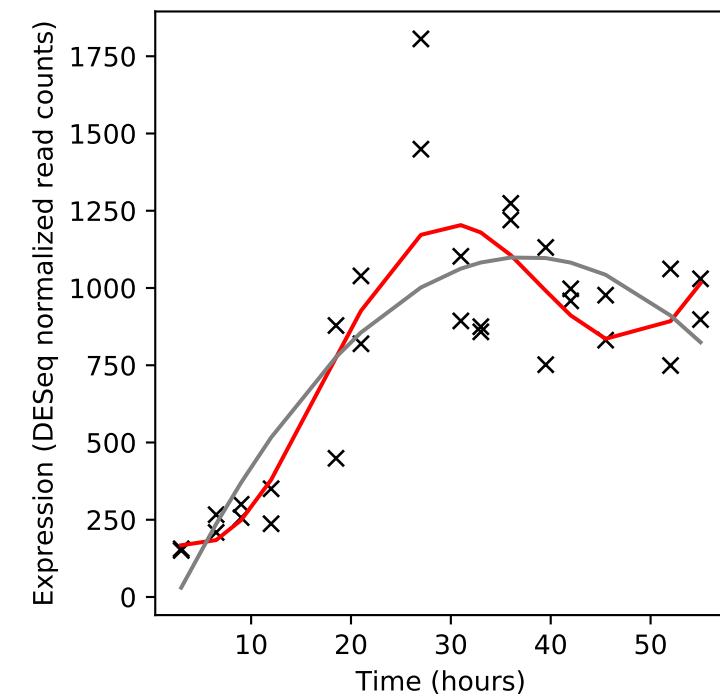
Rv2629/-



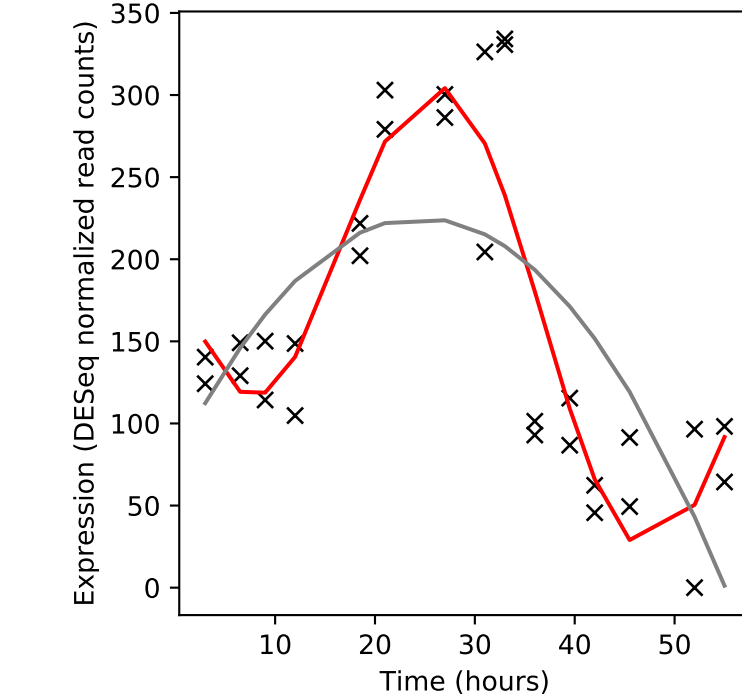
Rv2630/-



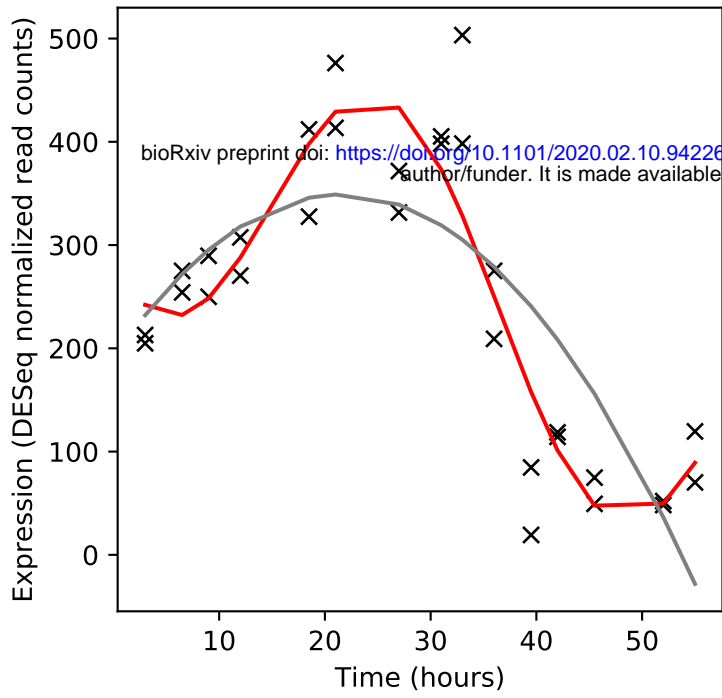
Rv2631/-



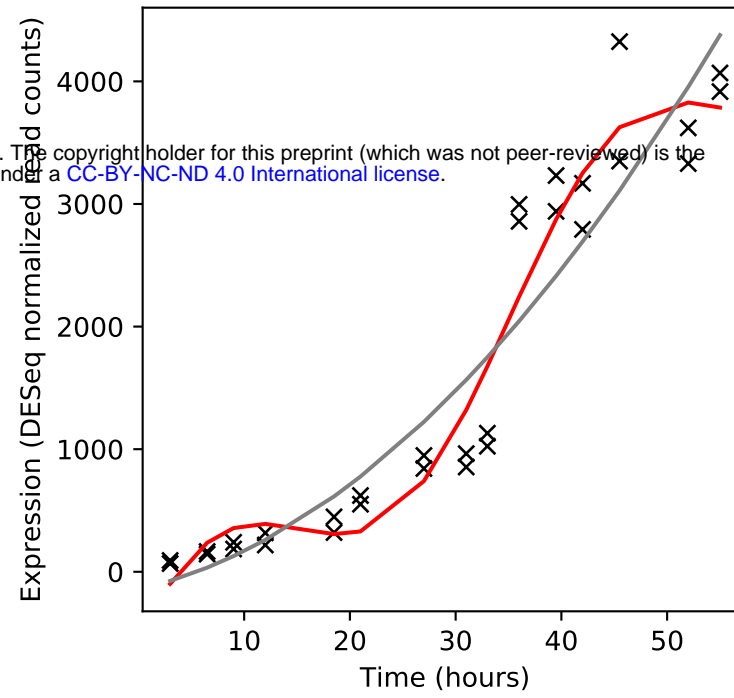
Rv2632c/-



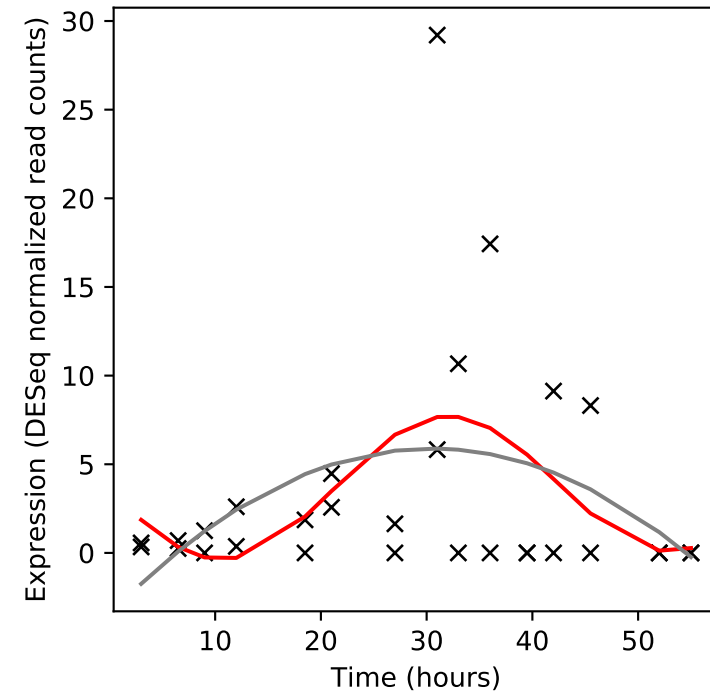
Rv2633c/-



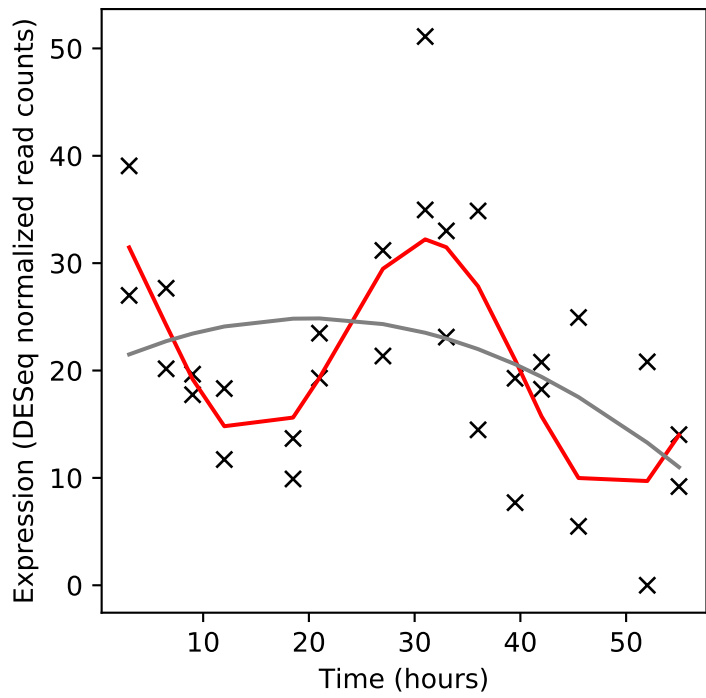
Rv2634c/PE_PGRS46



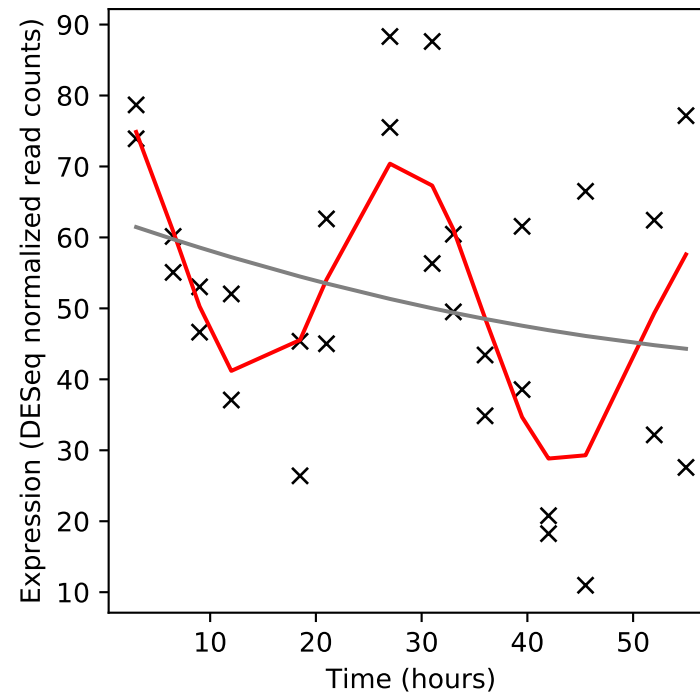
Rv2635/-



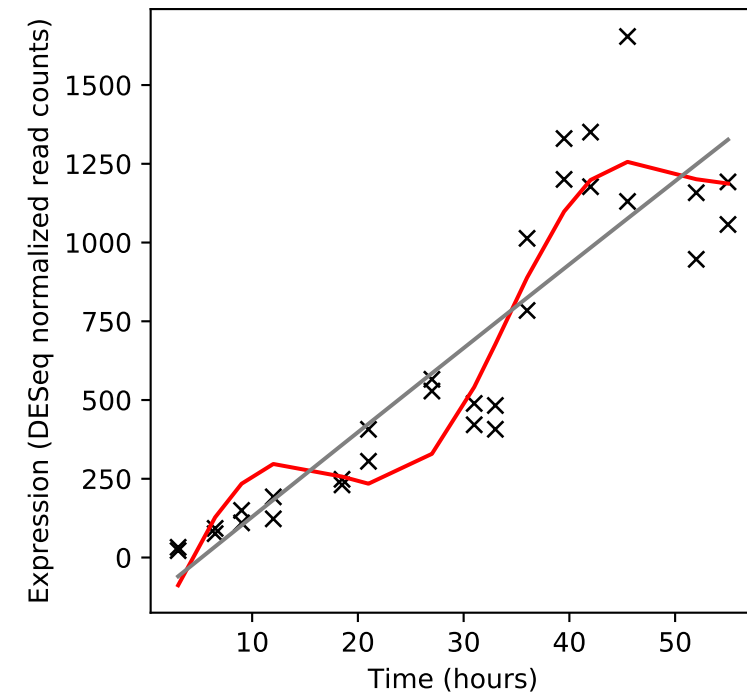
Rv2636/-



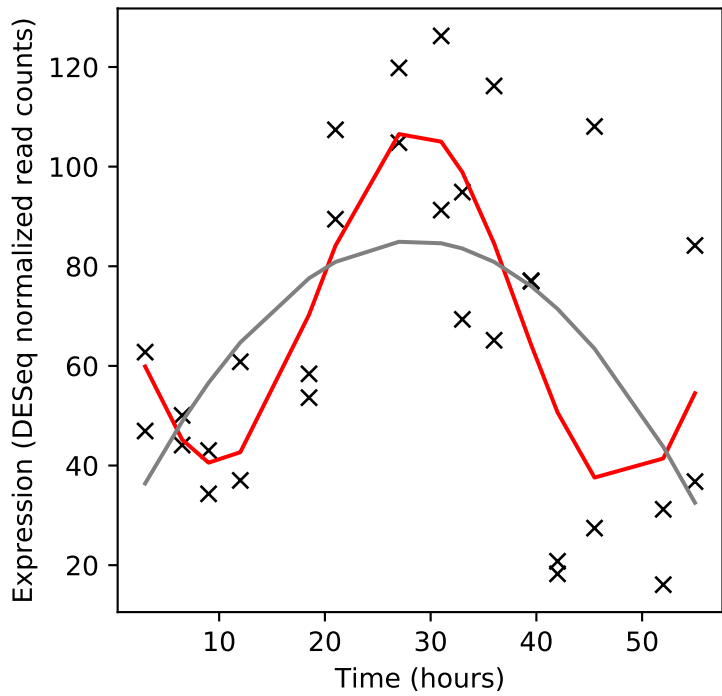
Rv2637/dedA



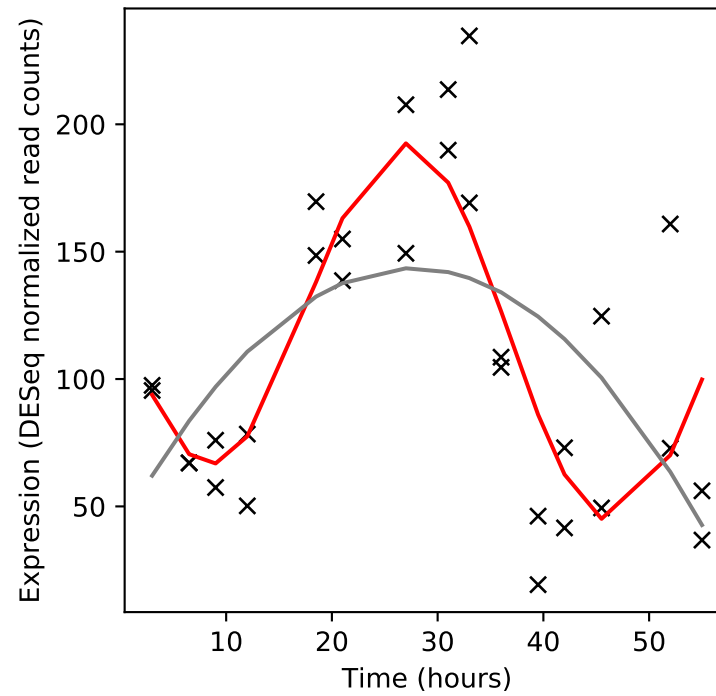
Rv2638/-



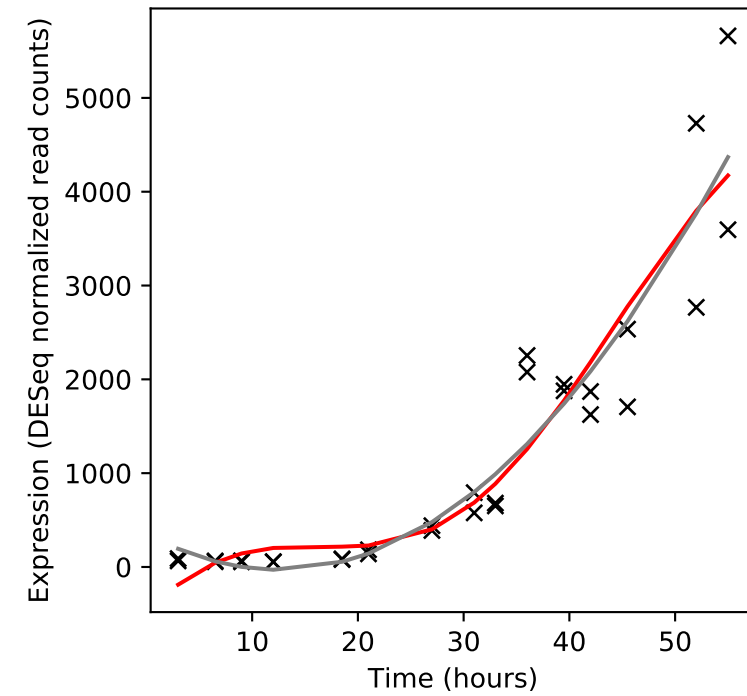
Rv2639c/-



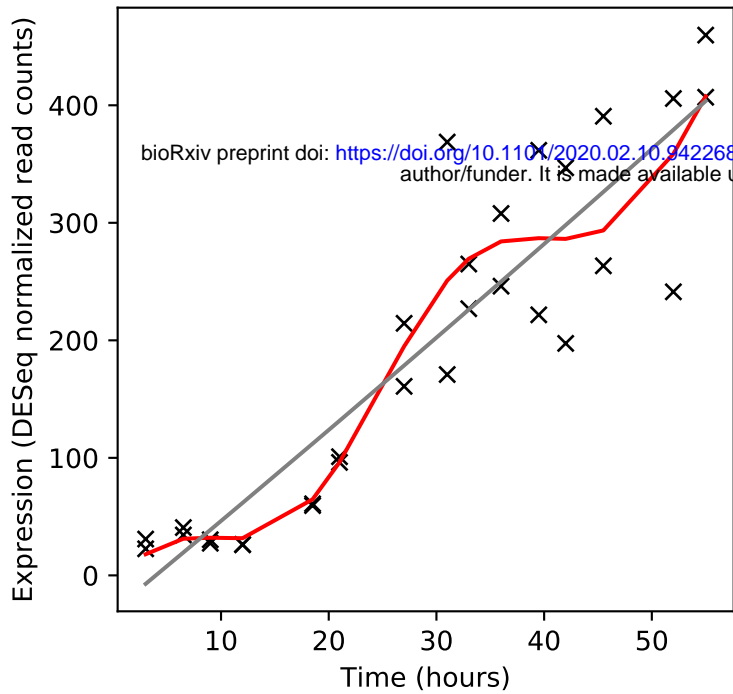
Rv2640c/-



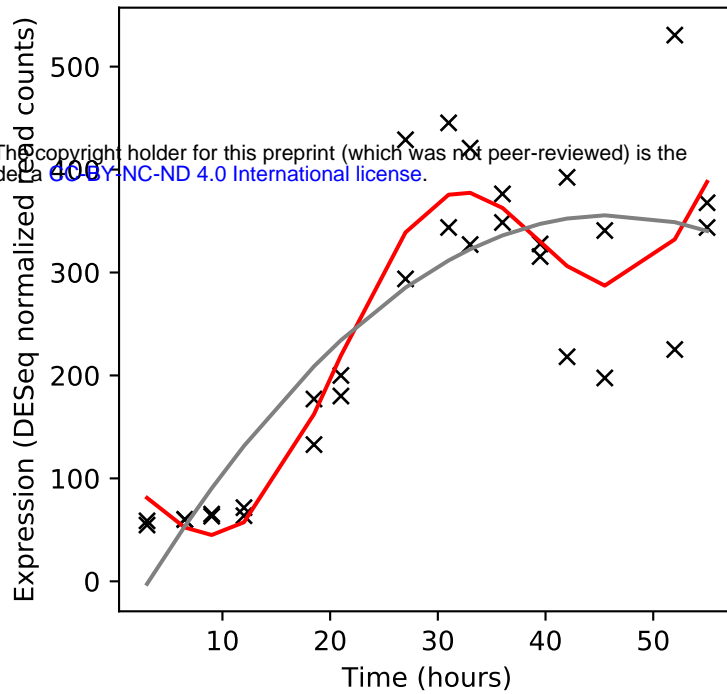
Rv2641/cadI



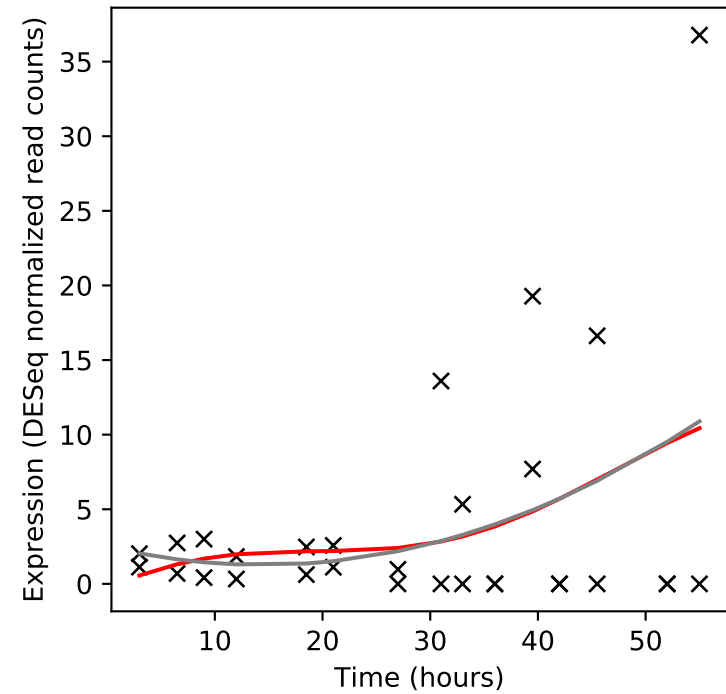
Rv2642/-



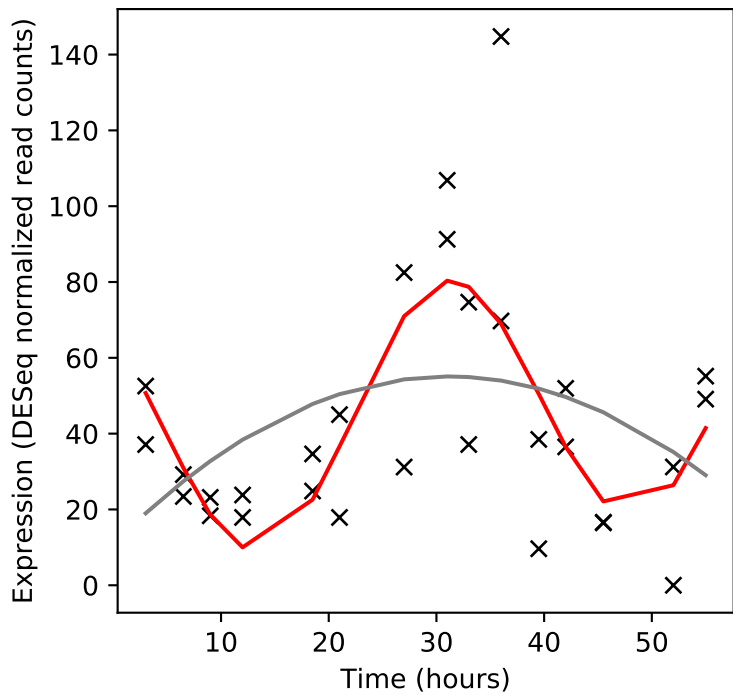
Rv2643/arsC



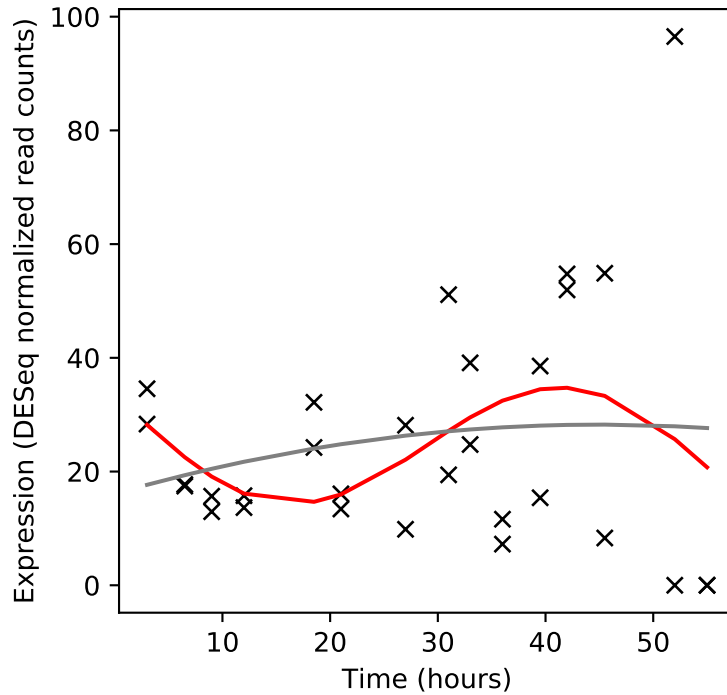
Rv2644c/-



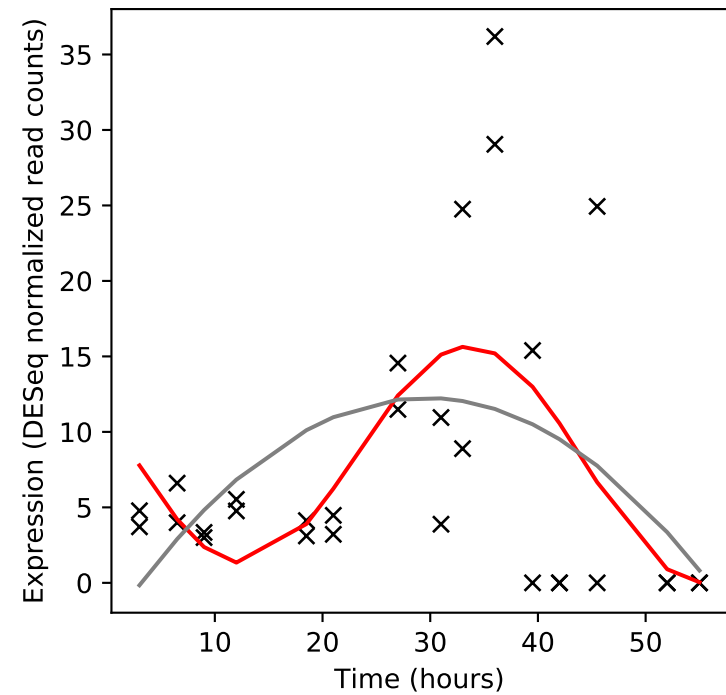
Rv2645/-



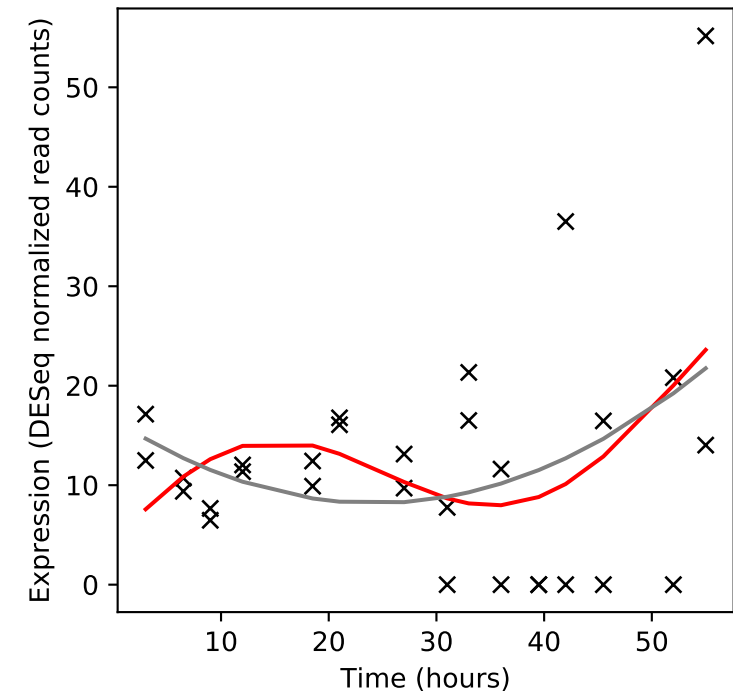
Rv2646/-



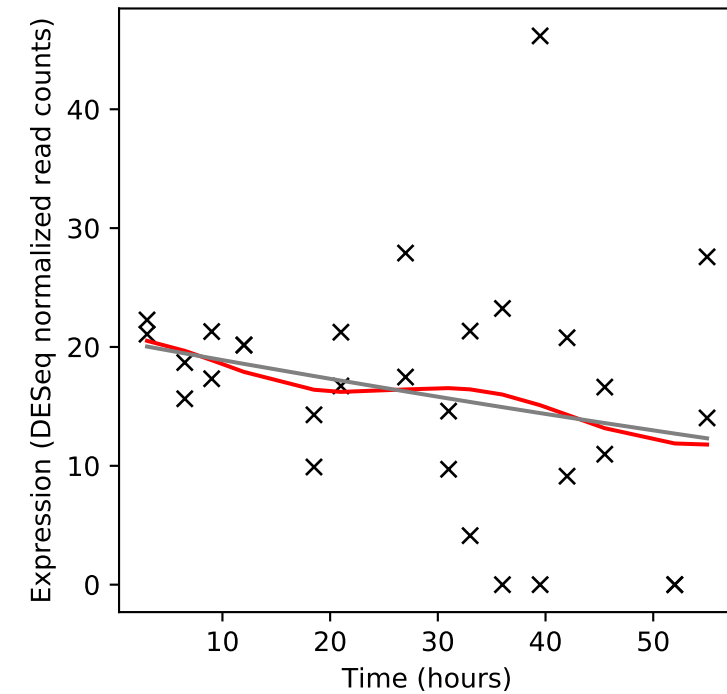
Rv2647/-



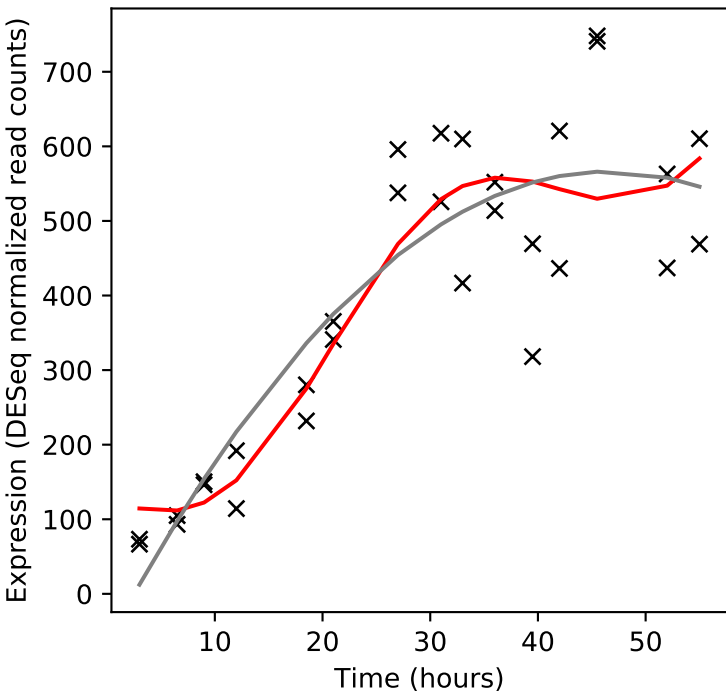
Rv2648/-



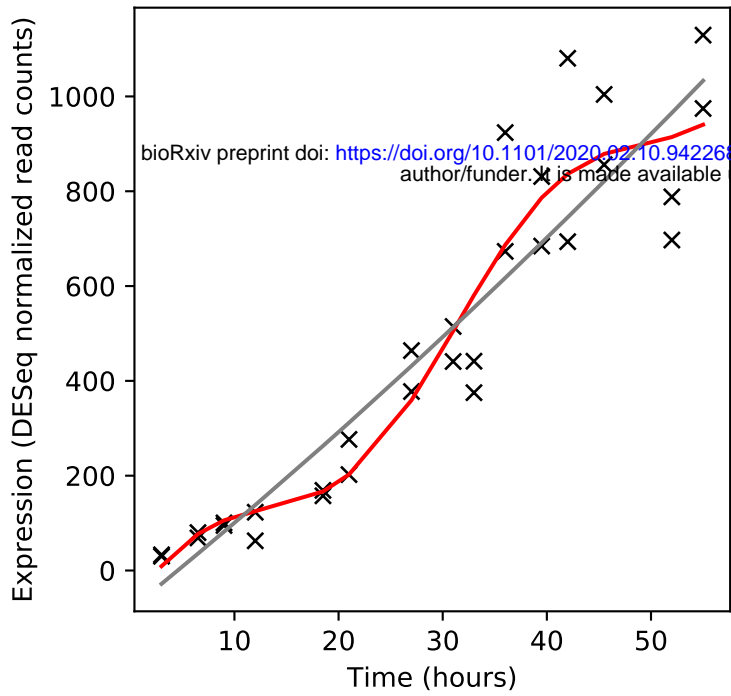
Rv2649/-



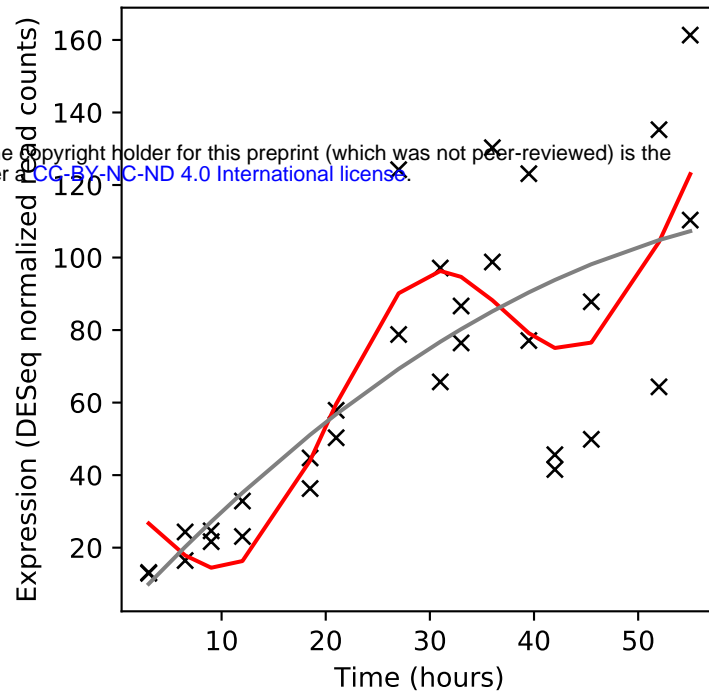
Rv2650c/-



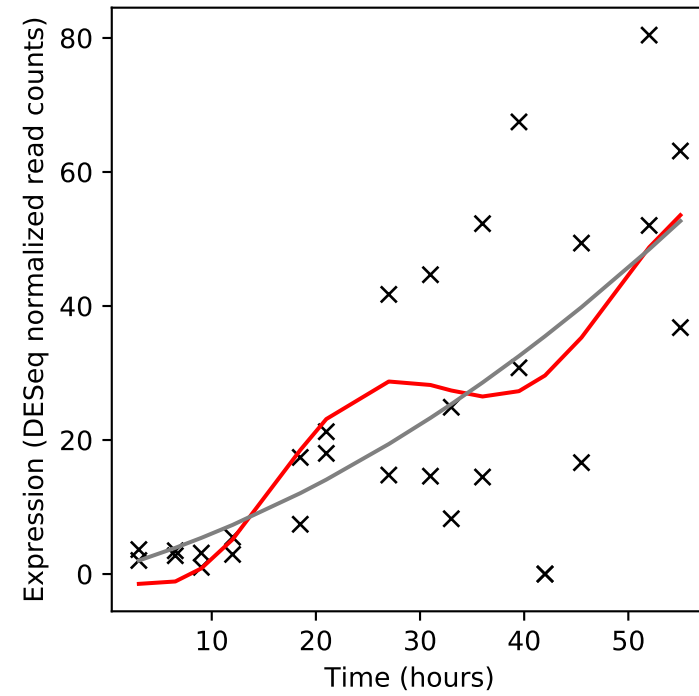
Rv2651c/-



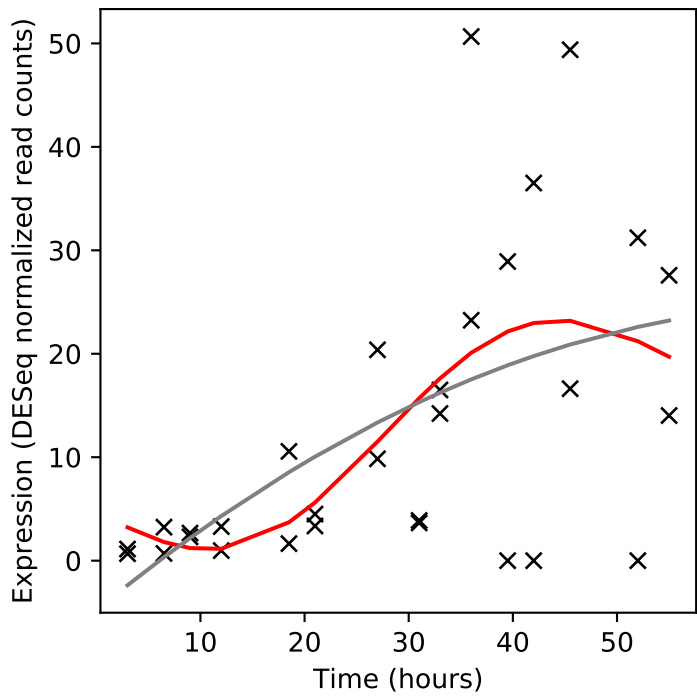
Rv2652c/-



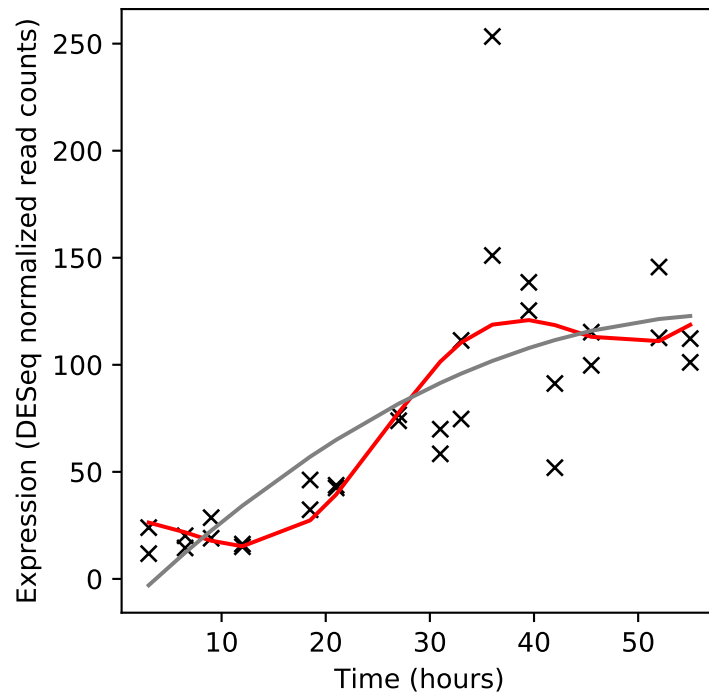
Rv2653c/-



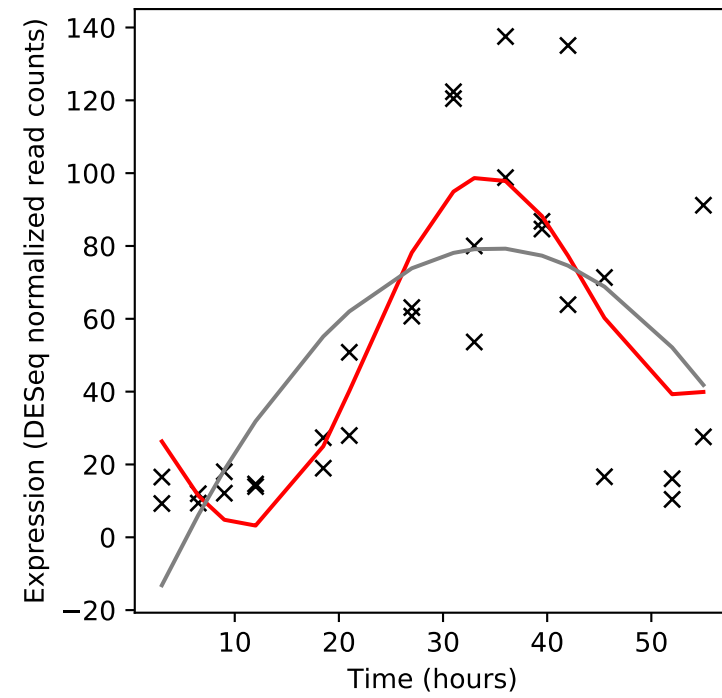
Rv2654c/-



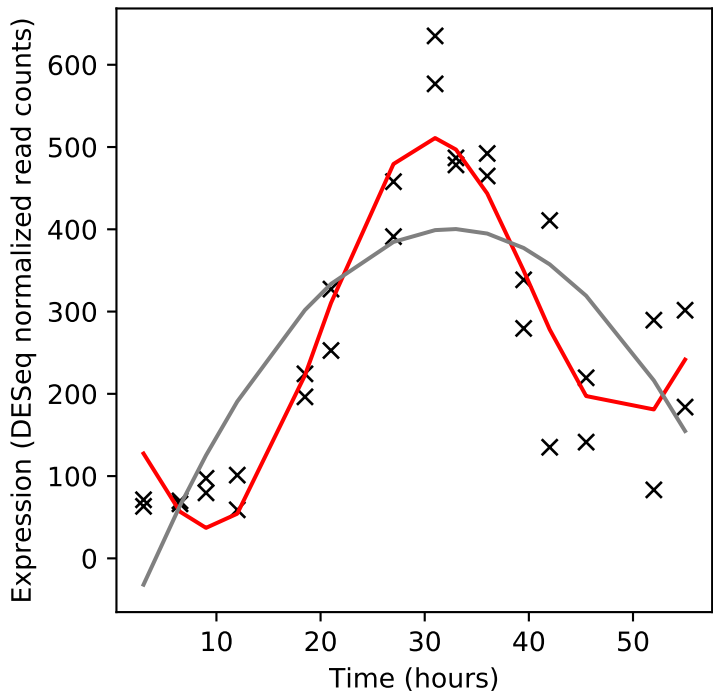
Rv2655c/-



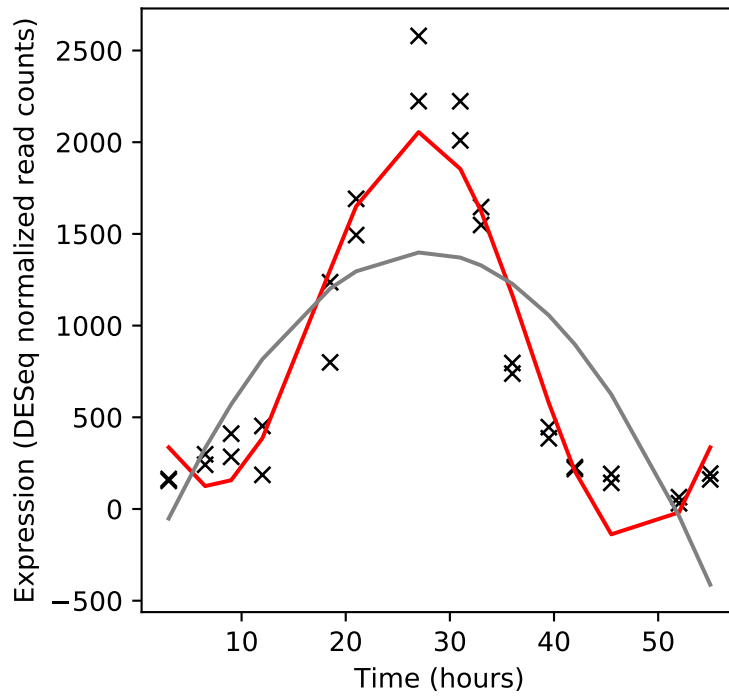
Rv2656c/-



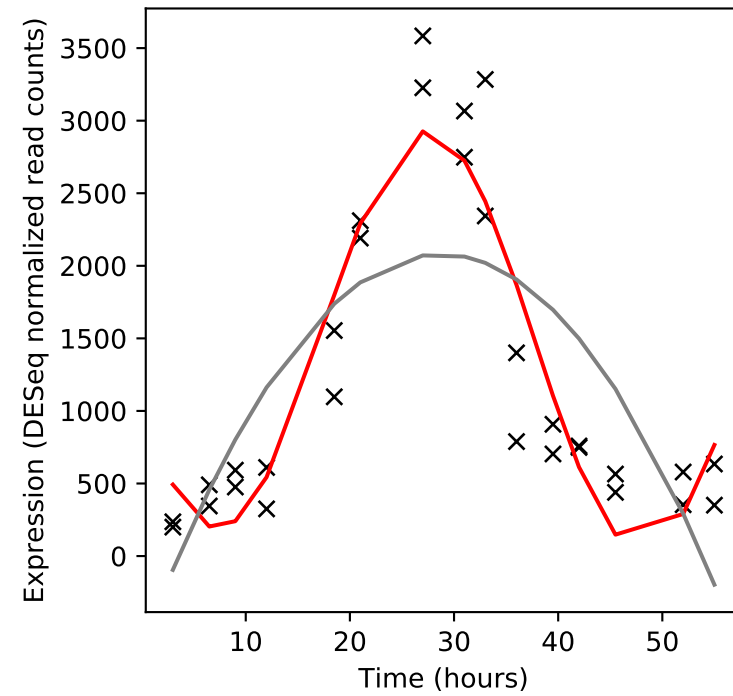
Rv2657c/-



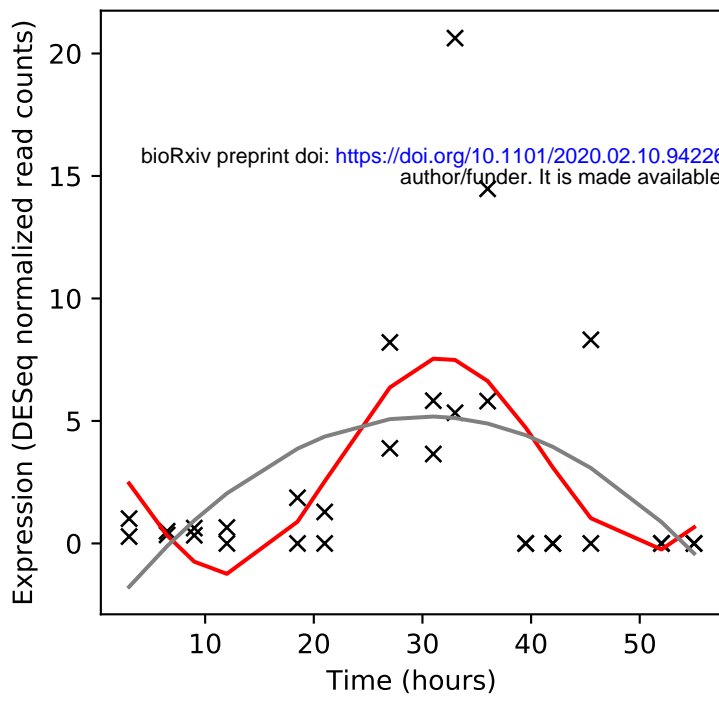
Rv2658c/-



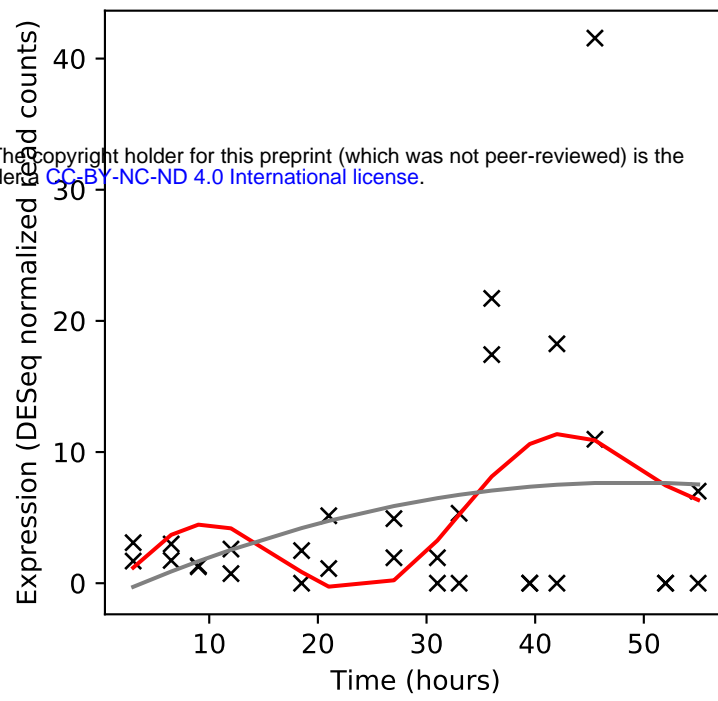
Rv2659c/-



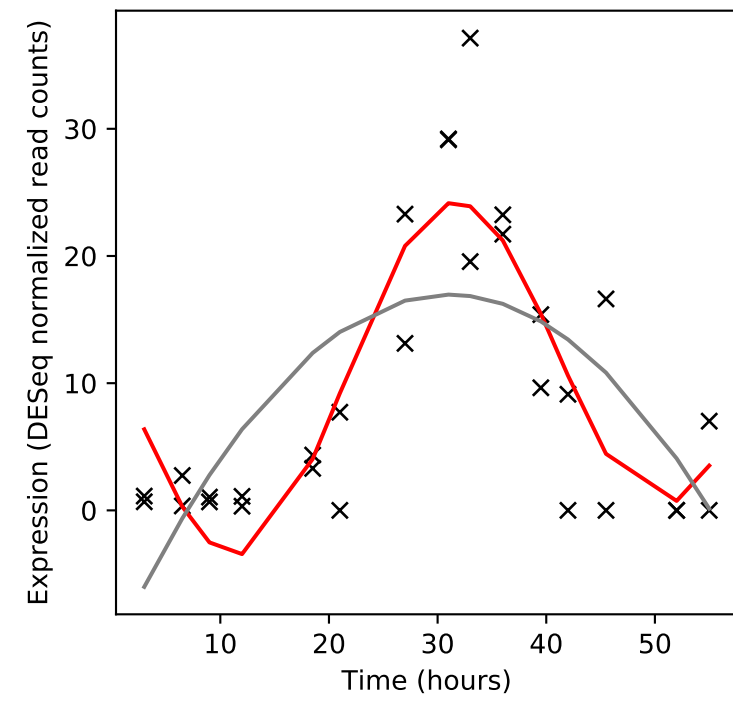
Rv2660c/-



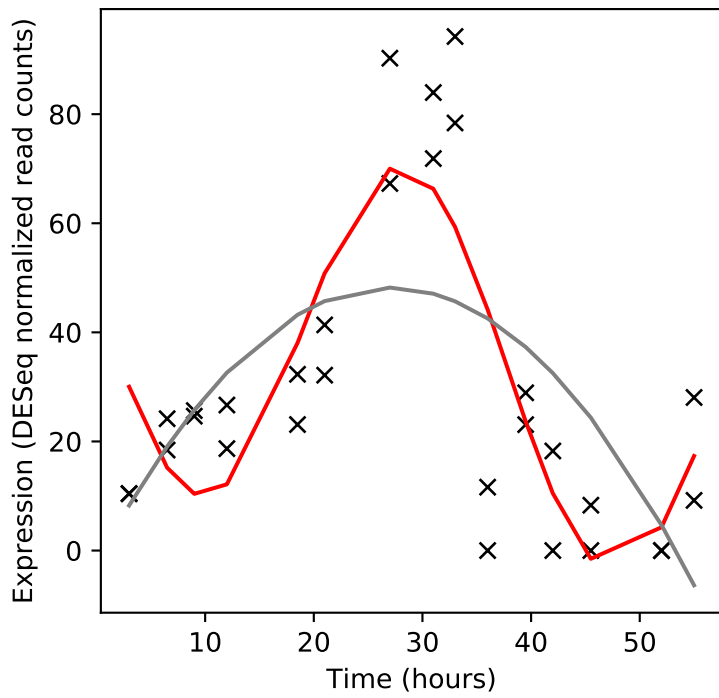
Rv2661c/-



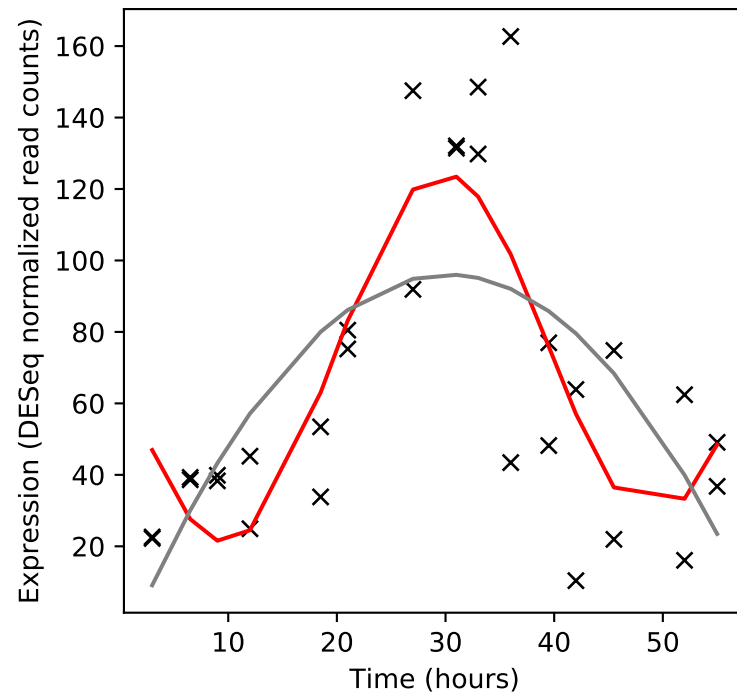
Rv2662/-



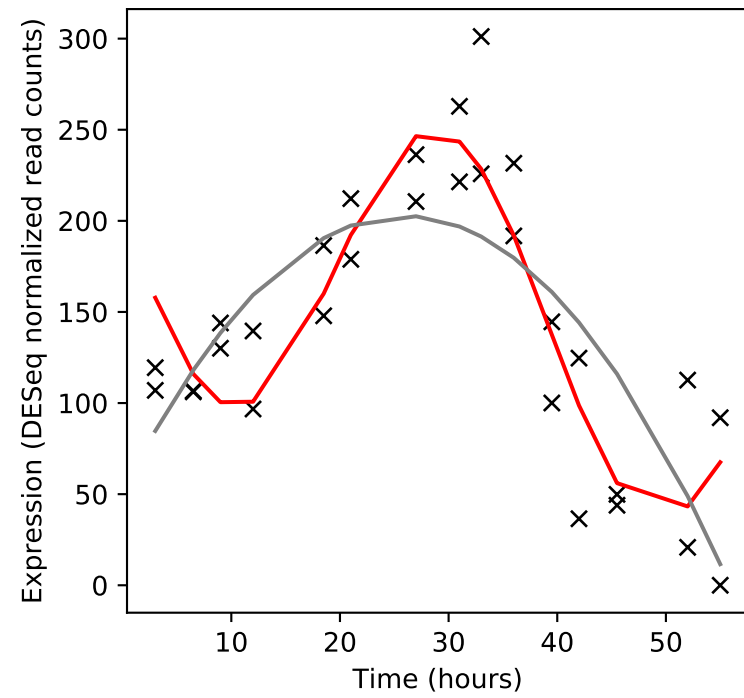
Rv2663/-



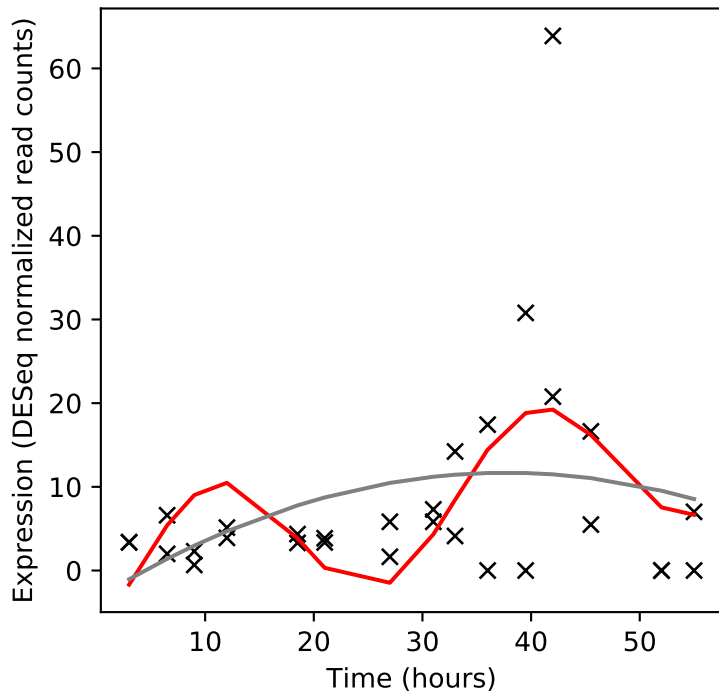
Rv2664/-



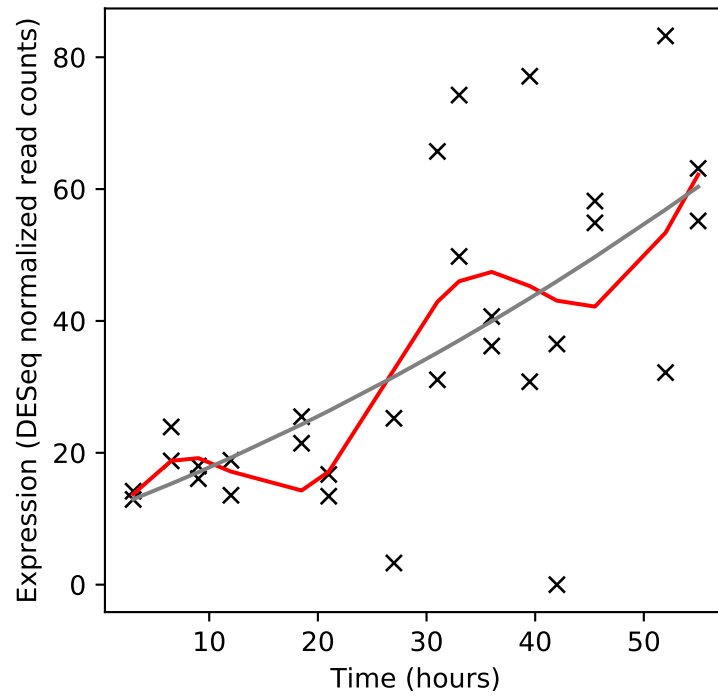
Rv2665/-



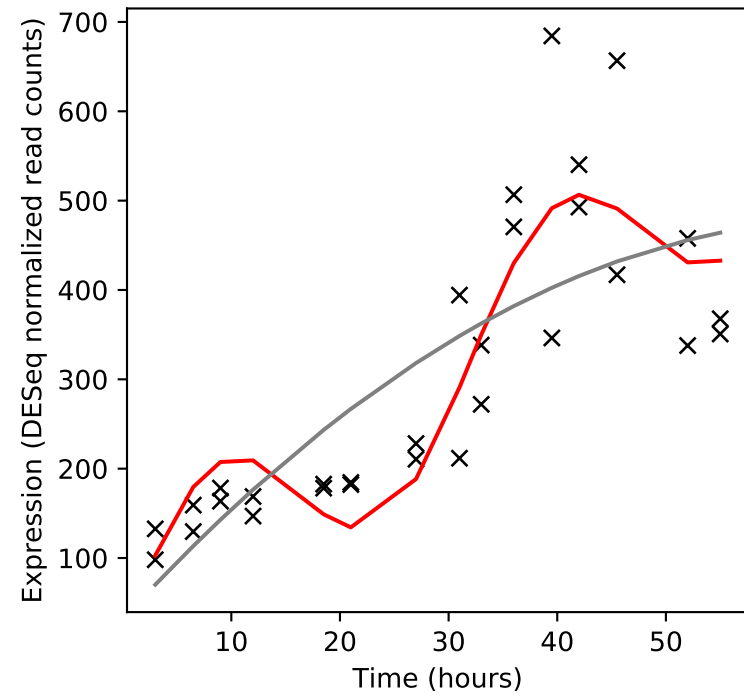
Rv2666/-



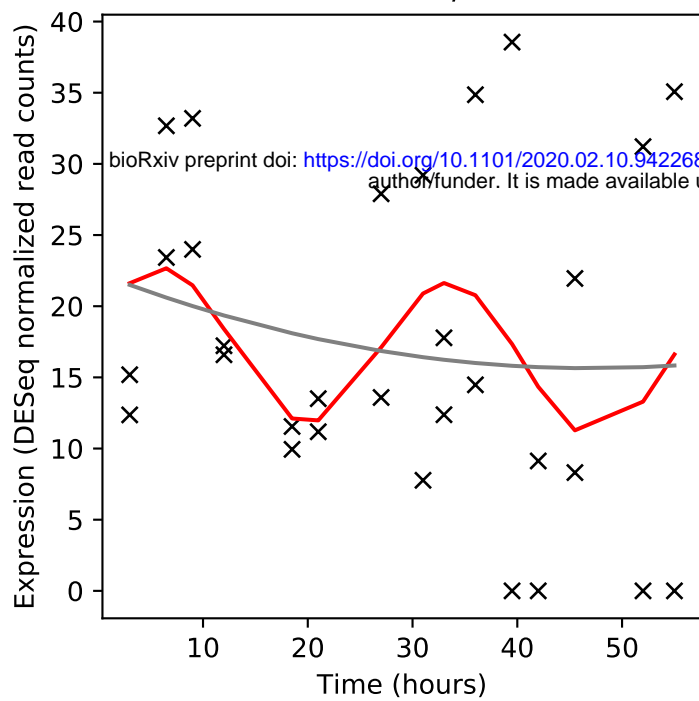
Rv2667/clpC2



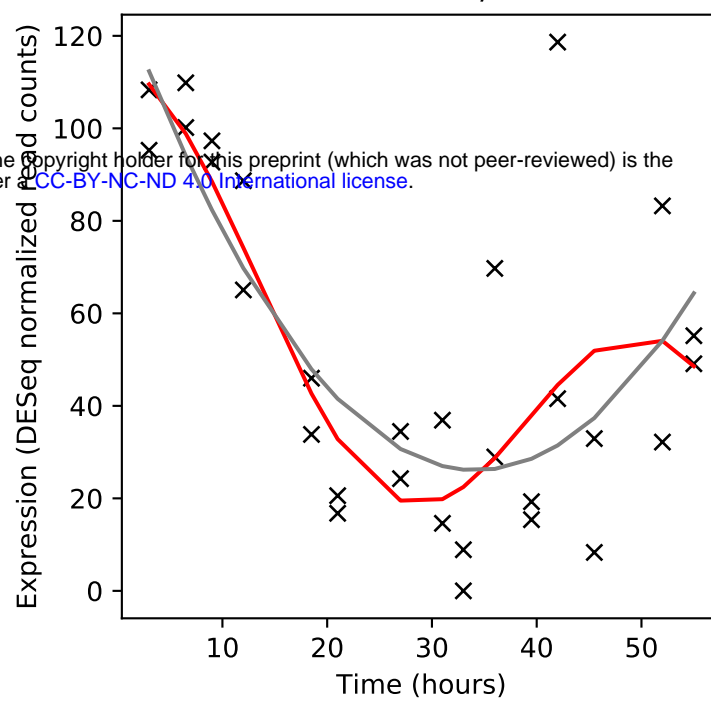
Rv2668/-



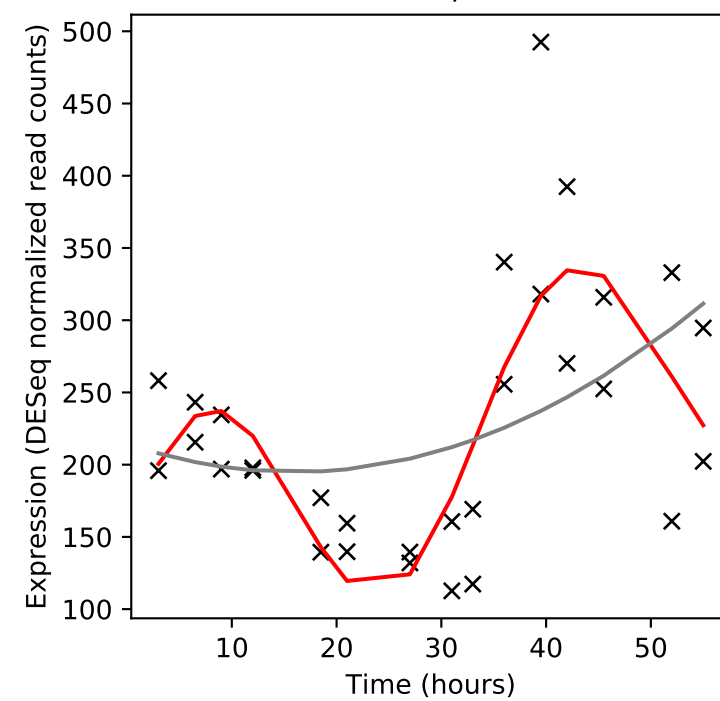
Rv2669/-



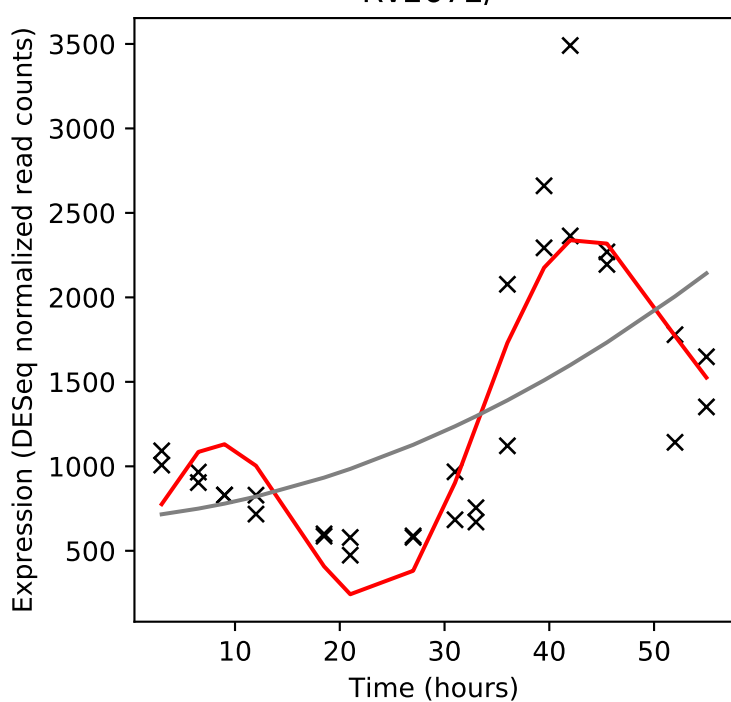
Rv2670c/-



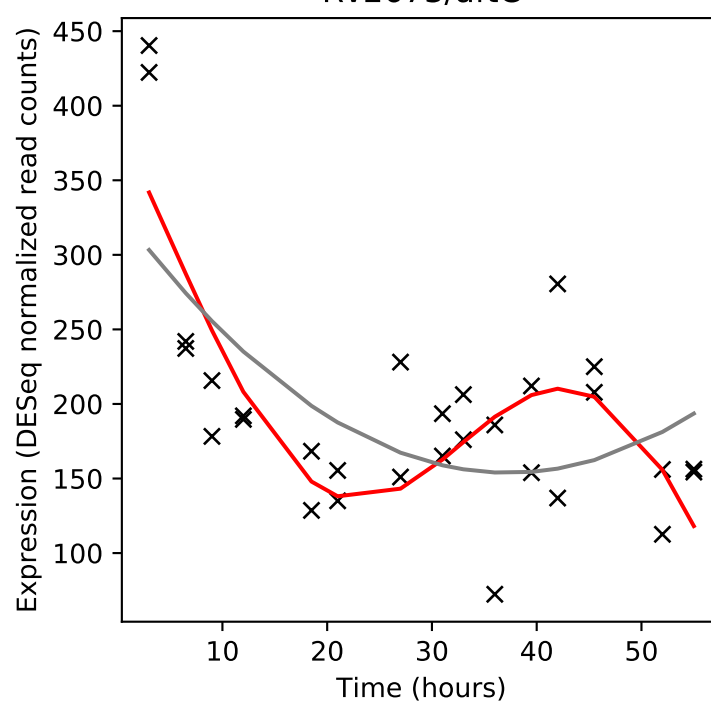
Rv2671/ribD



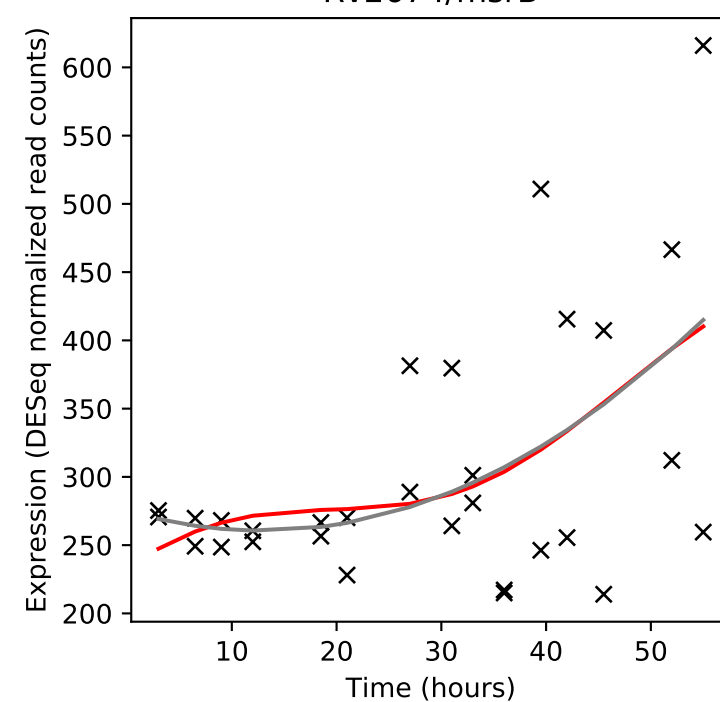
Rv2672/-



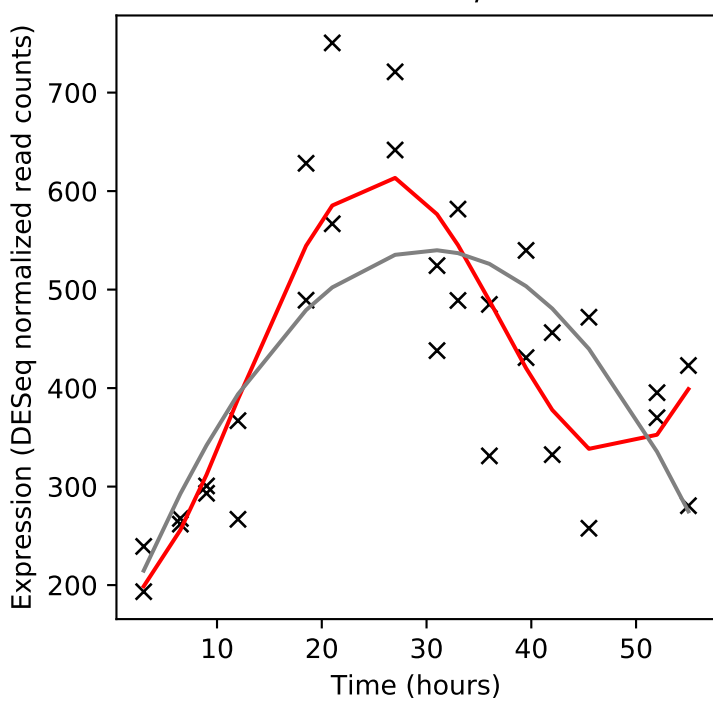
Rv2673/aftC



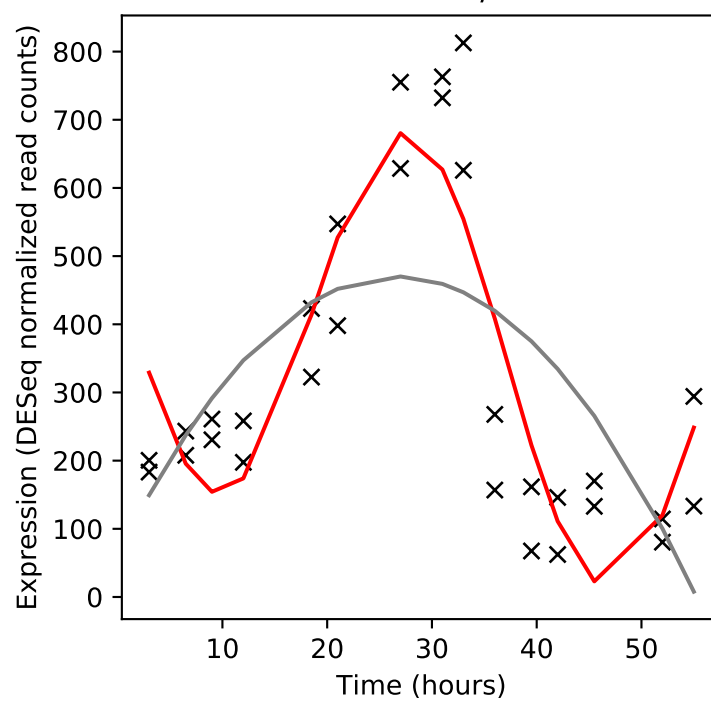
Rv2674/msrB



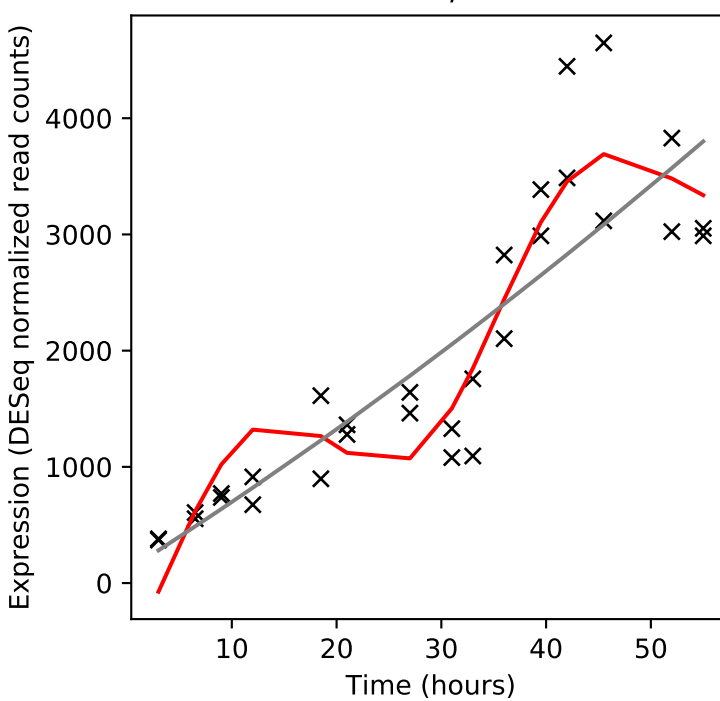
Rv2675c/-



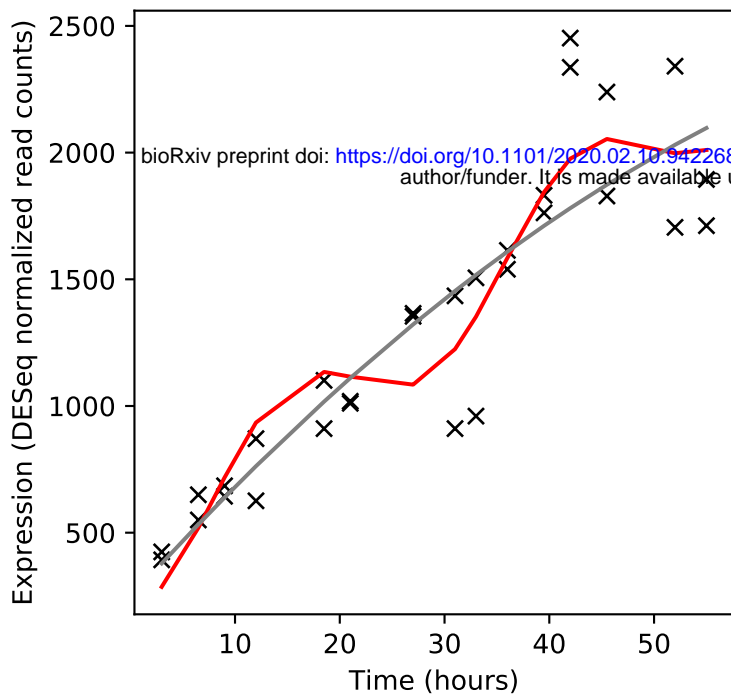
Rv2676c/-



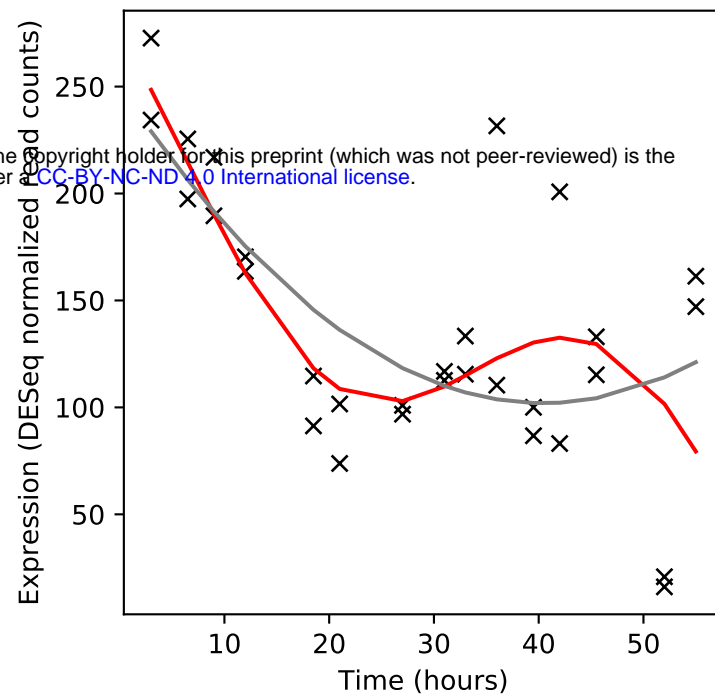
Rv2677c/hemY



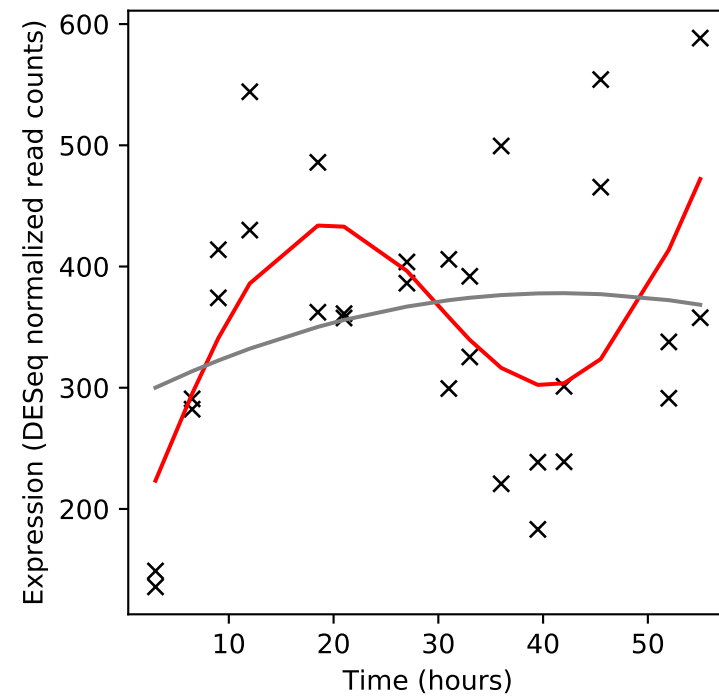
Rv2678c/hemE



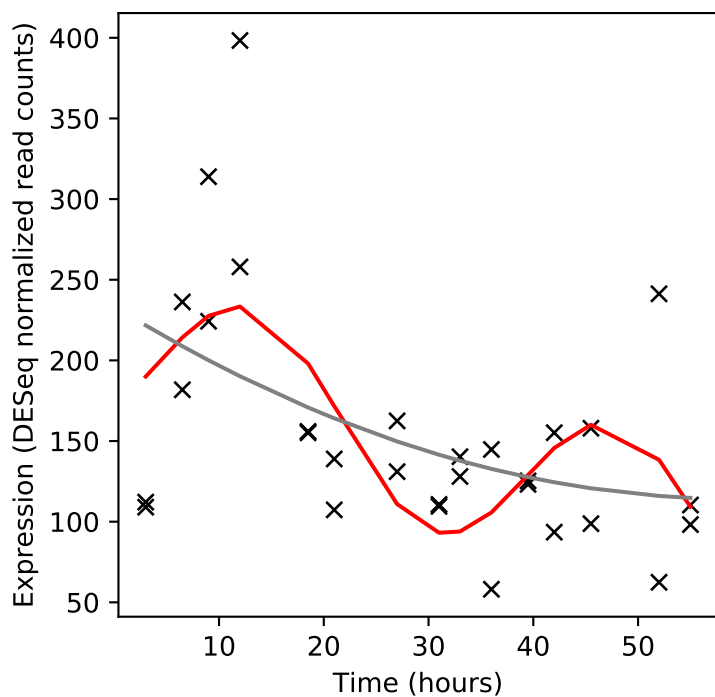
Rv2679/echA15



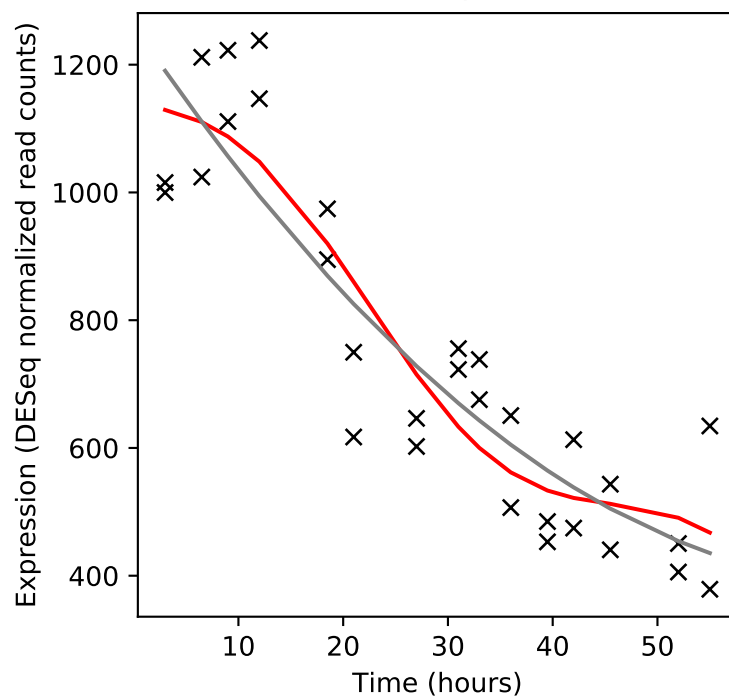
Rv2680/-



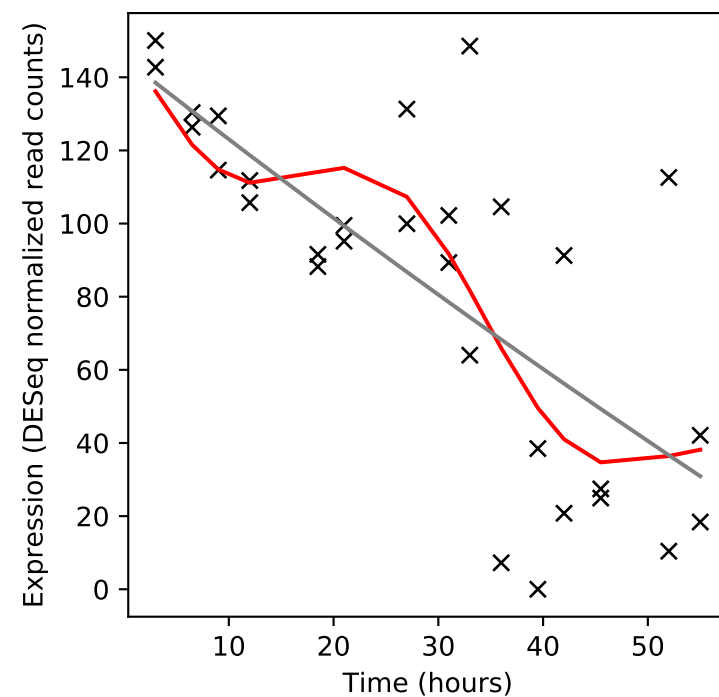
Rv2681/-



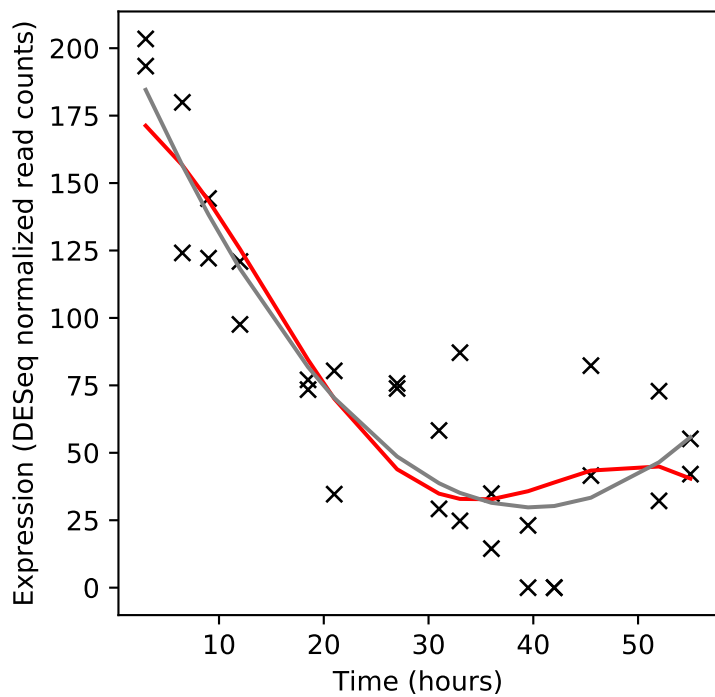
Rv2682c/dxs1



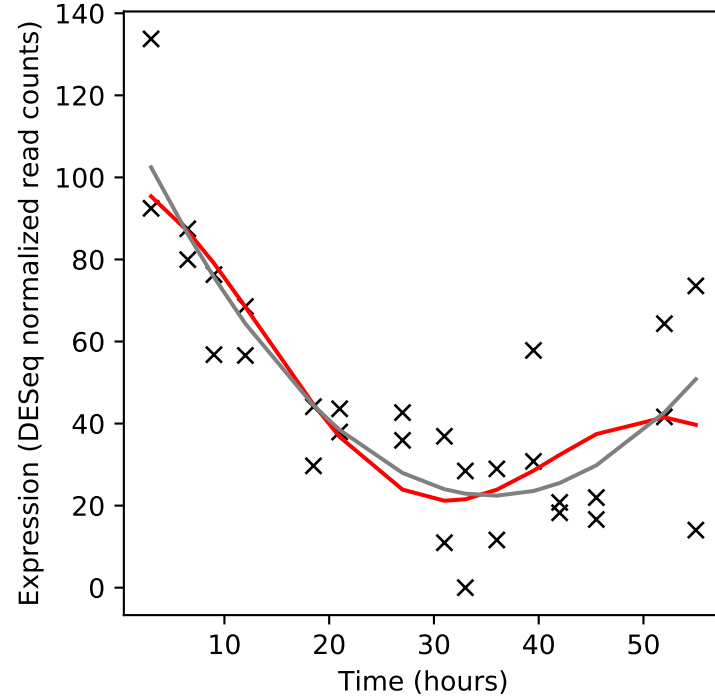
Rv2683/-



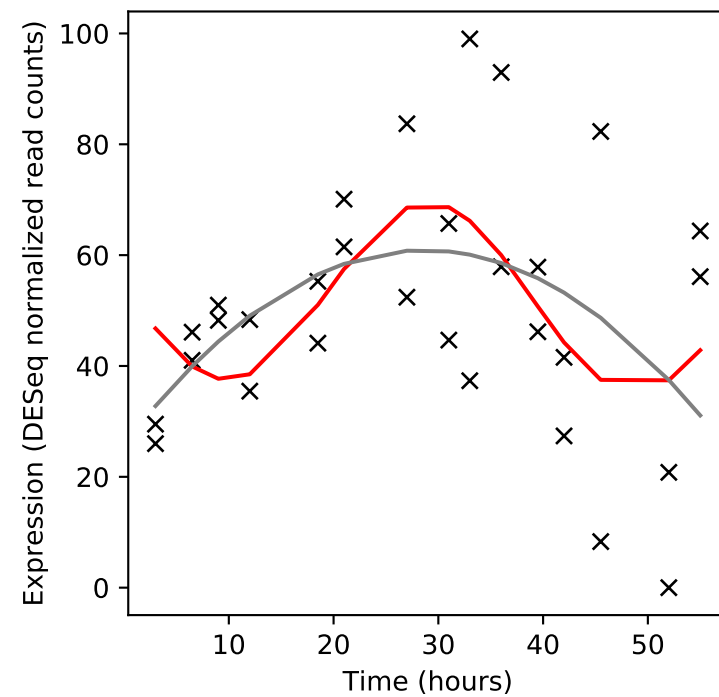
Rv2684/arsA



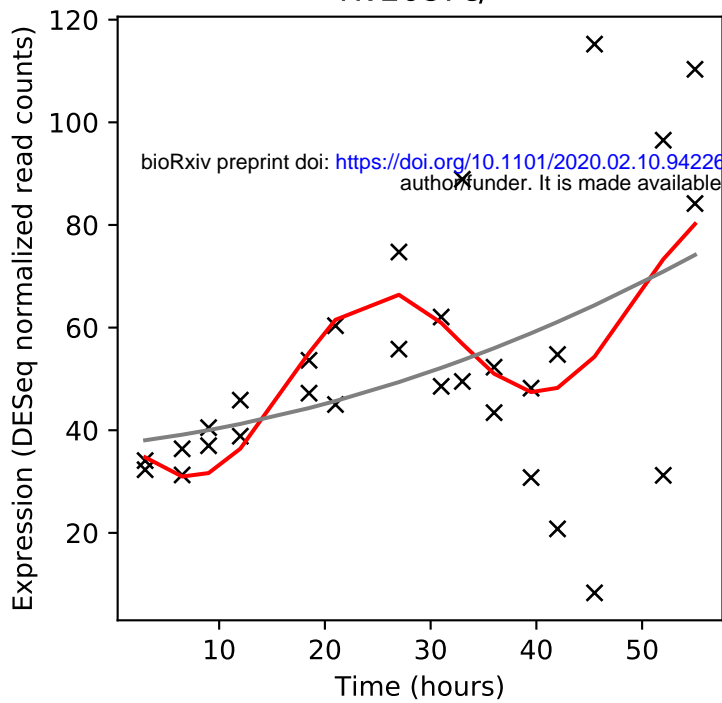
Rv2685/arsB1



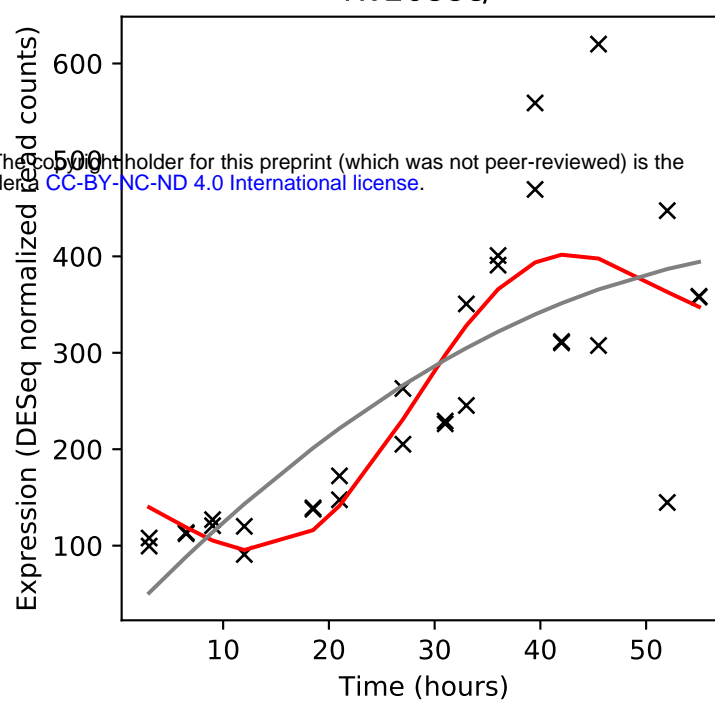
Rv2686c/-



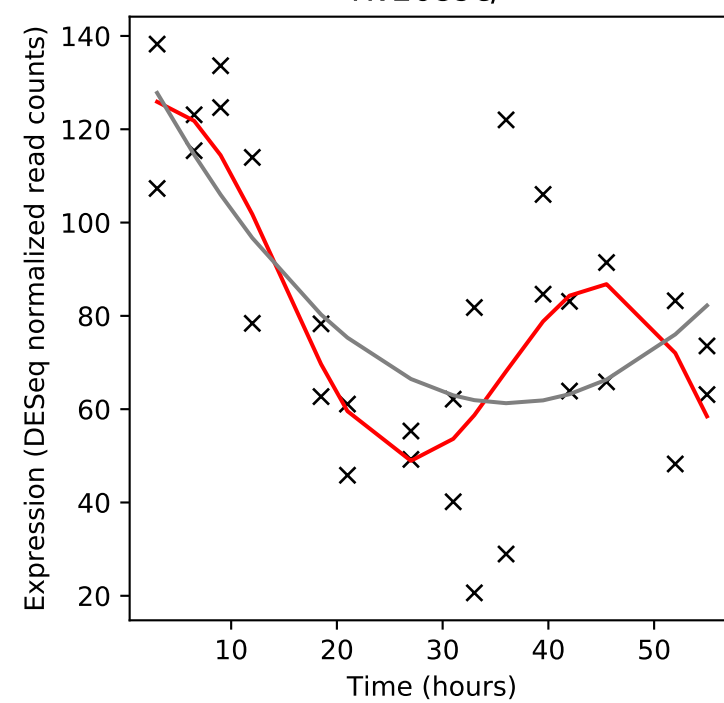
Rv2687c/-



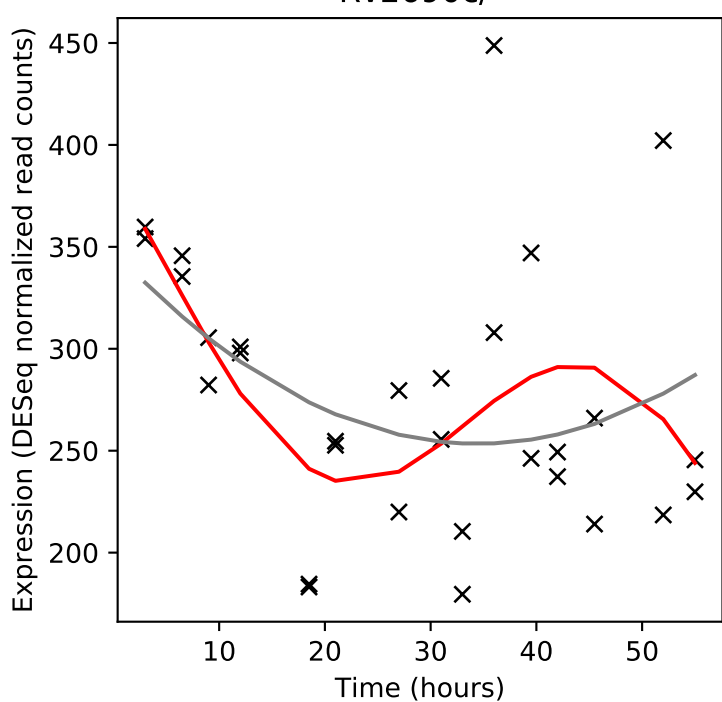
Rv2688c/-



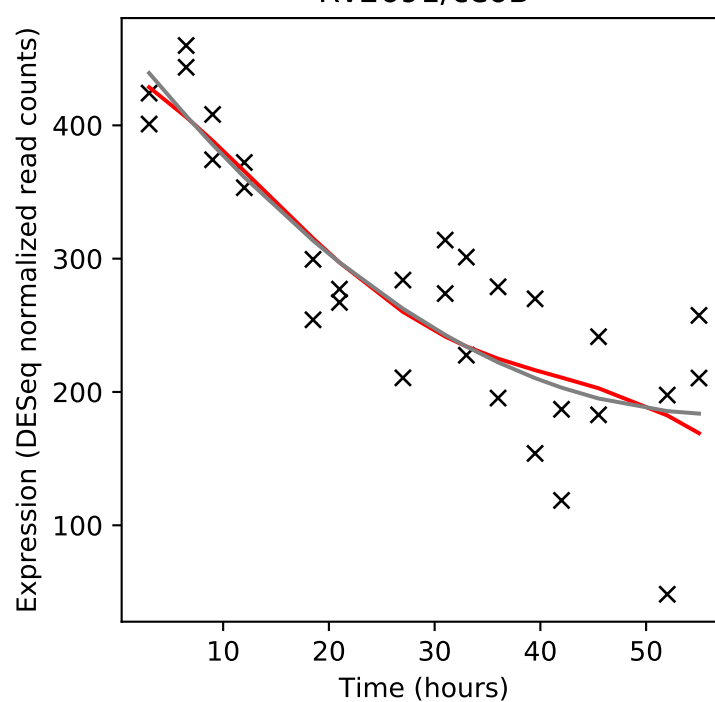
Rv2689c/-



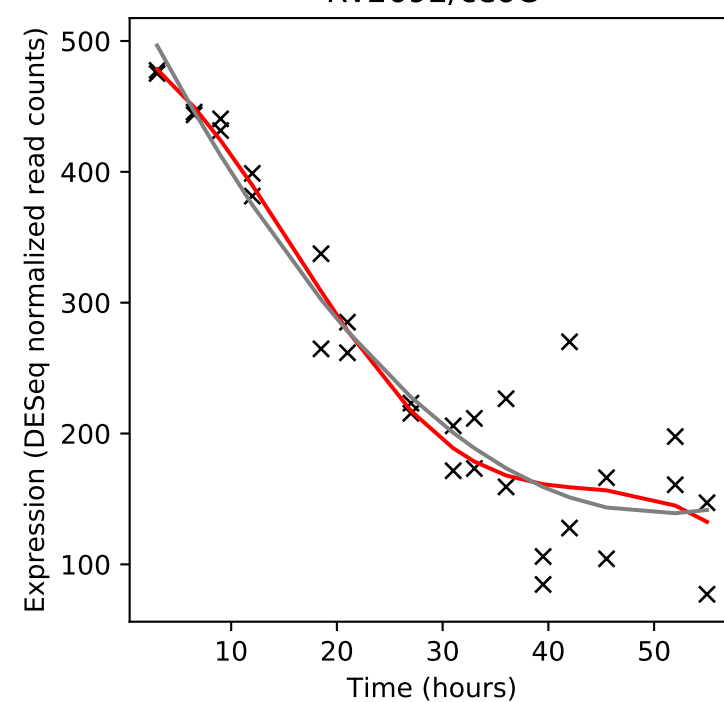
Rv2690c/-



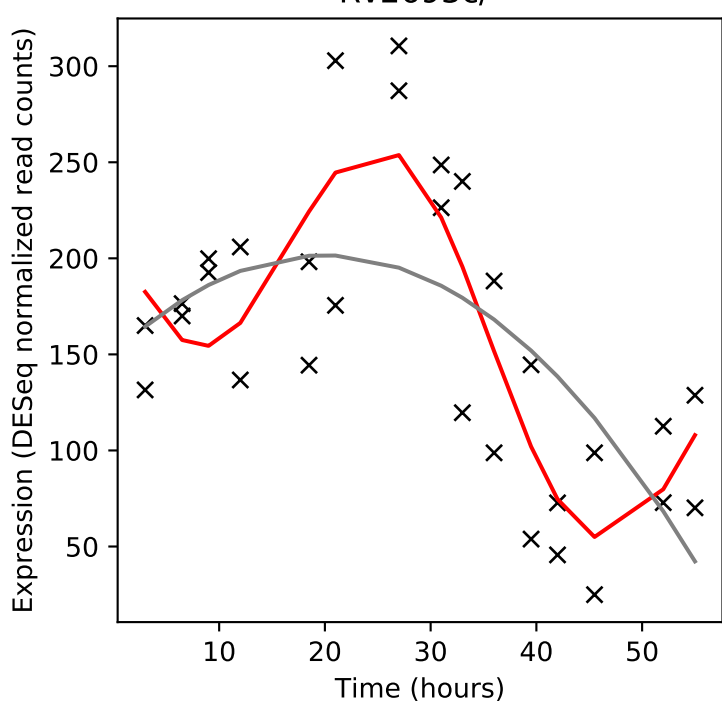
Rv2691/ceoB



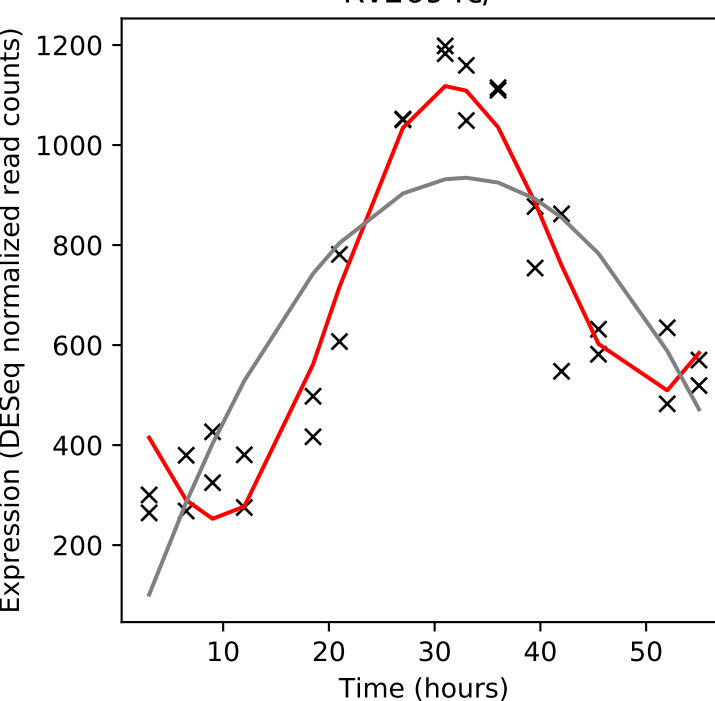
Rv2692/ceoC



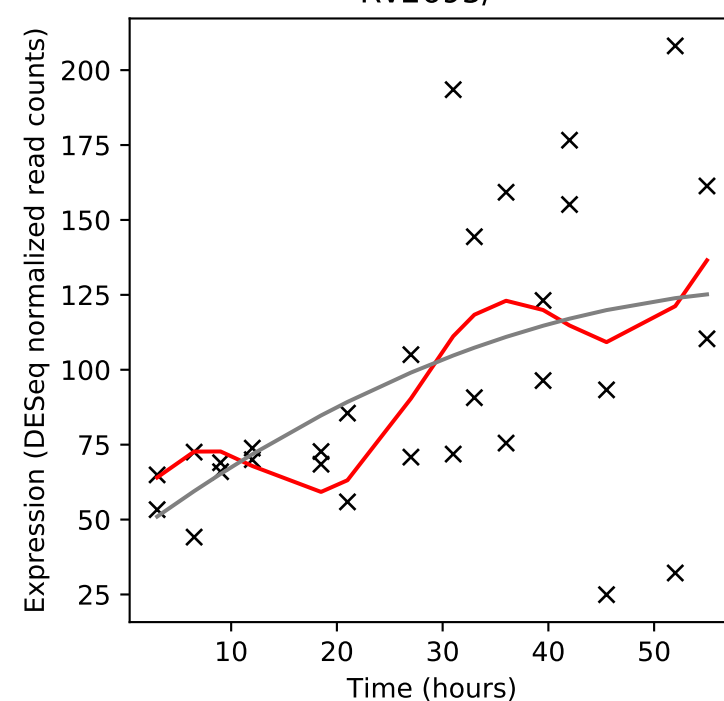
Rv2693c/-



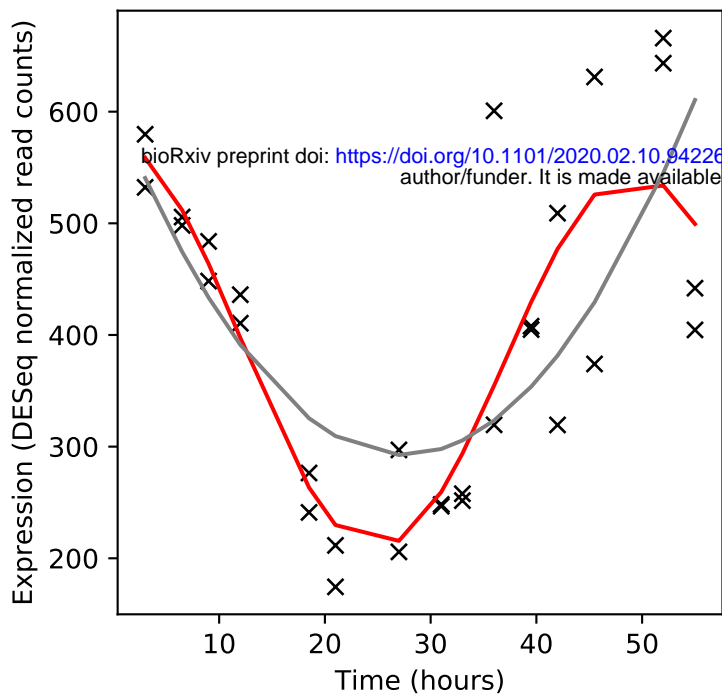
Rv2694c/-



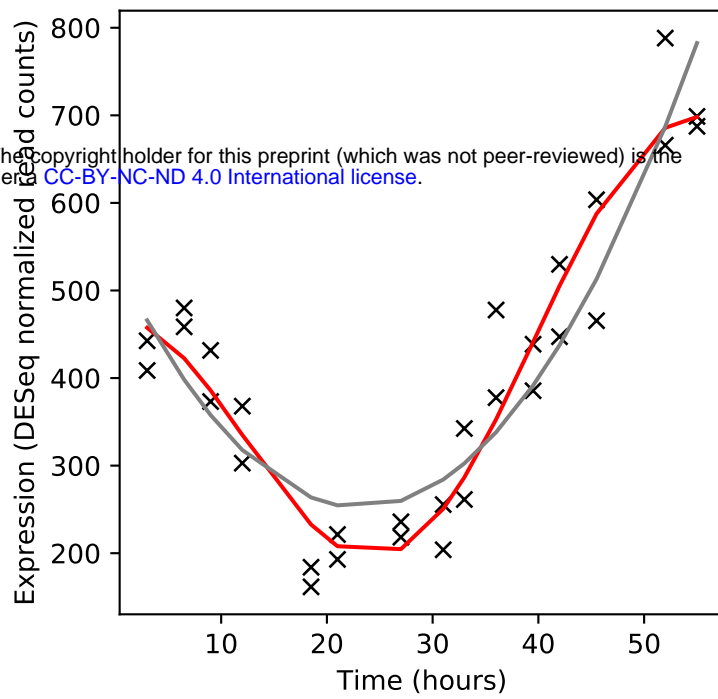
Rv2695/-



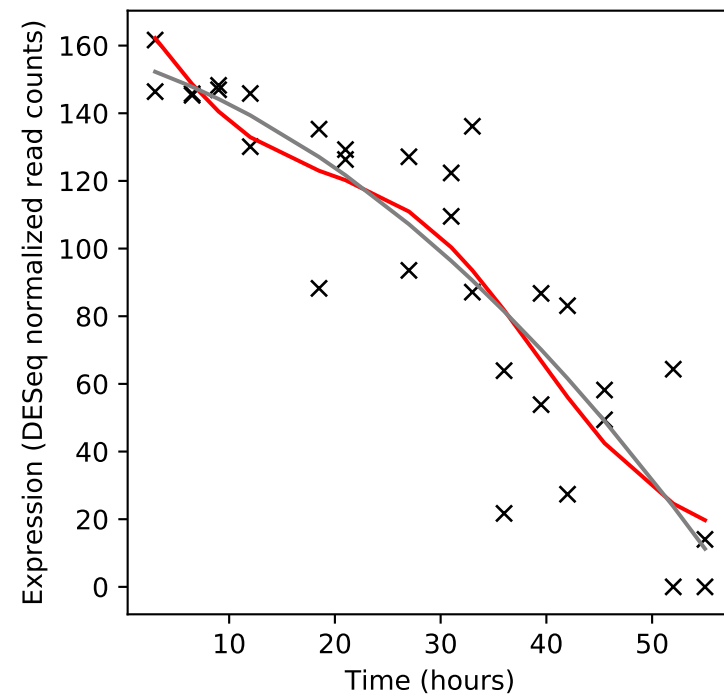
Rv2696c/-



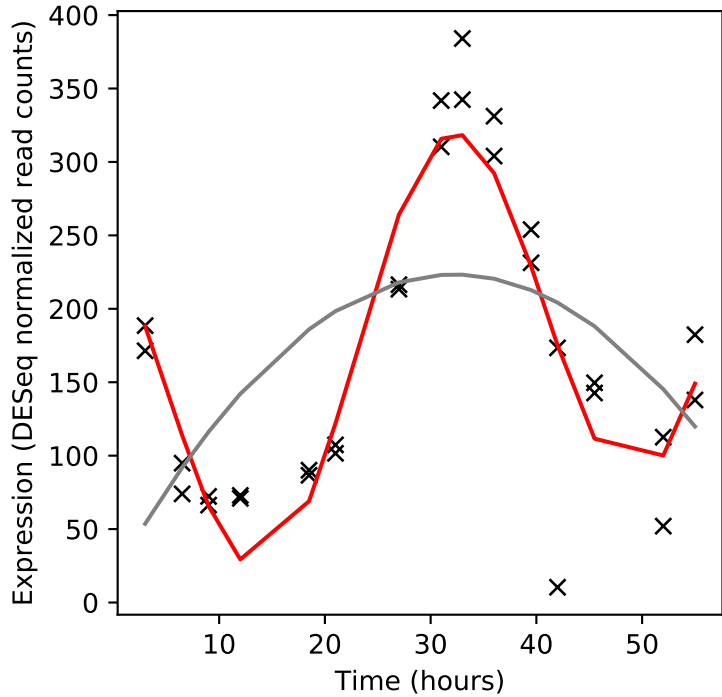
Rv2697c/dut



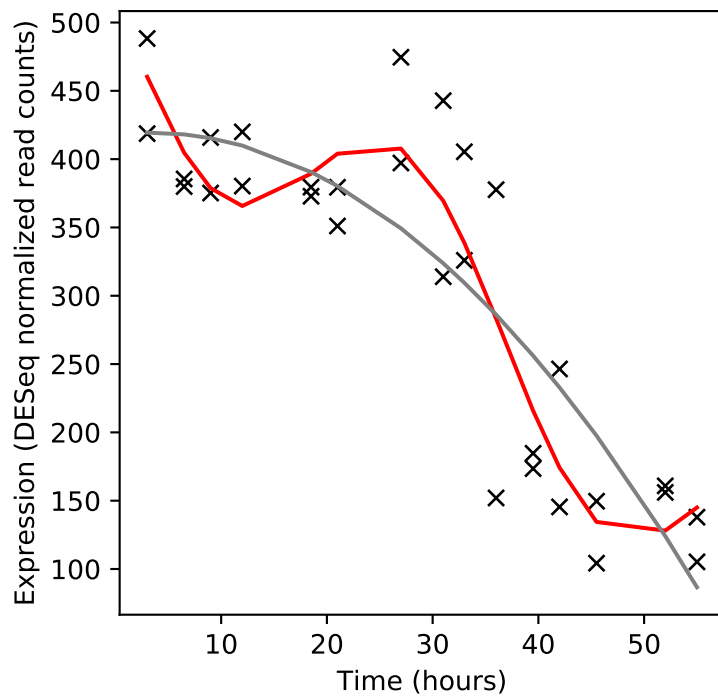
Rv2698/-



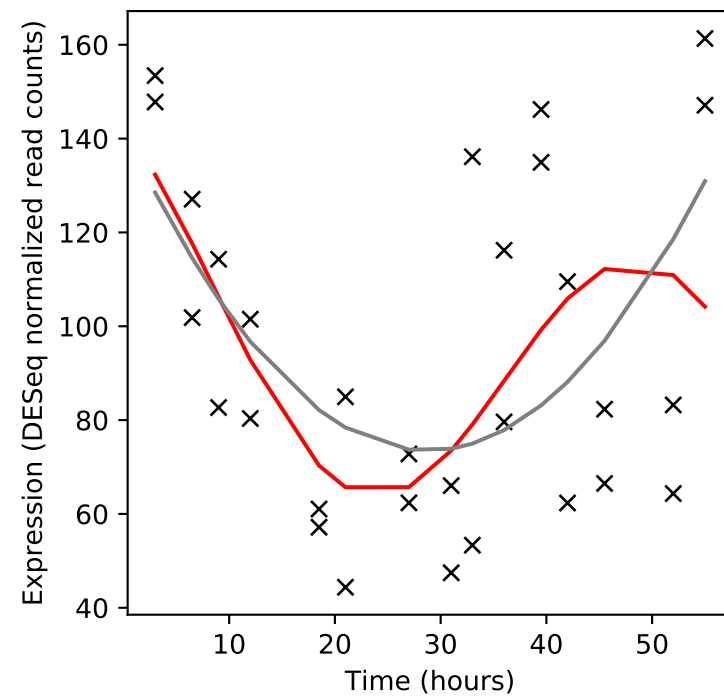
Rv2699c/-



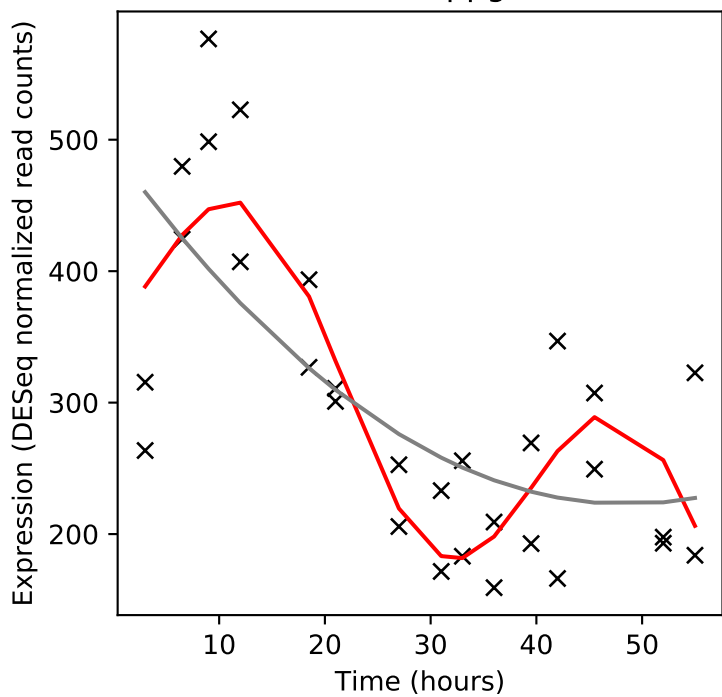
Rv2700/-



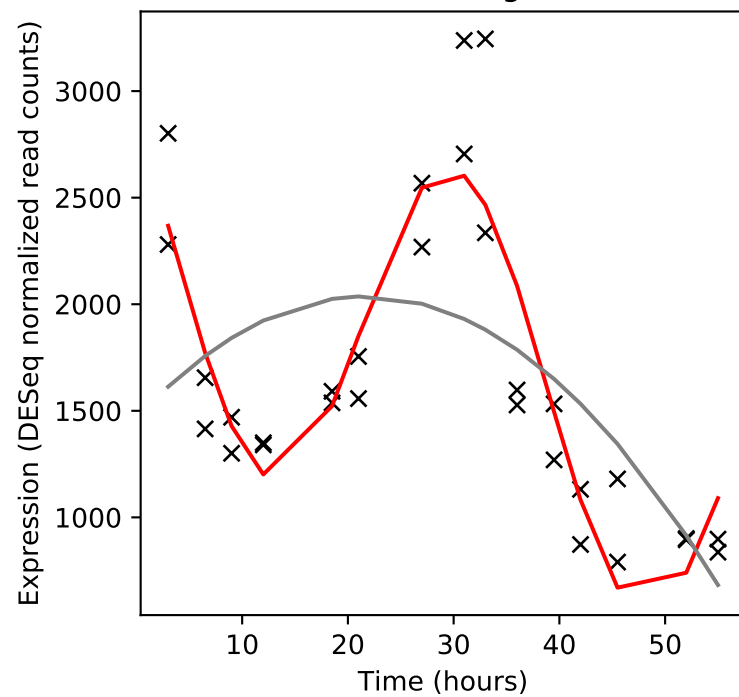
Rv2701c/suhB



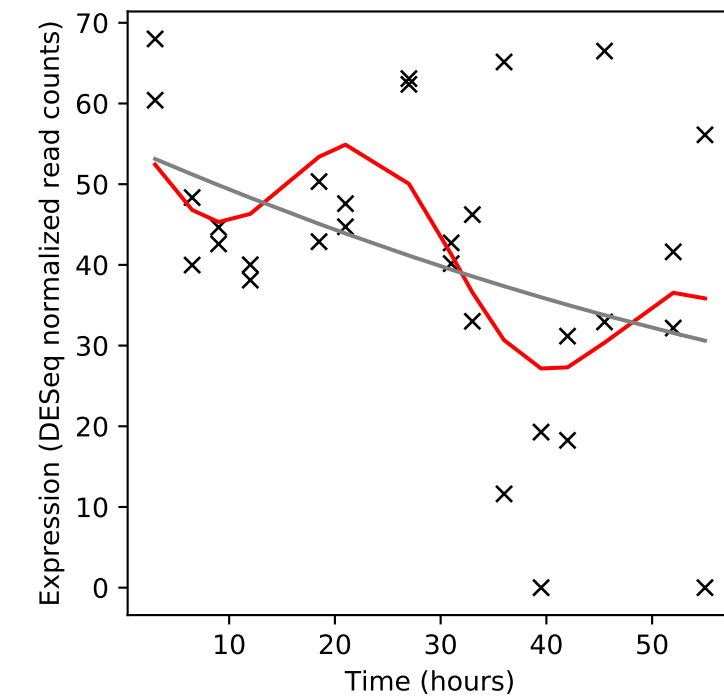
Rv2702/ppgK

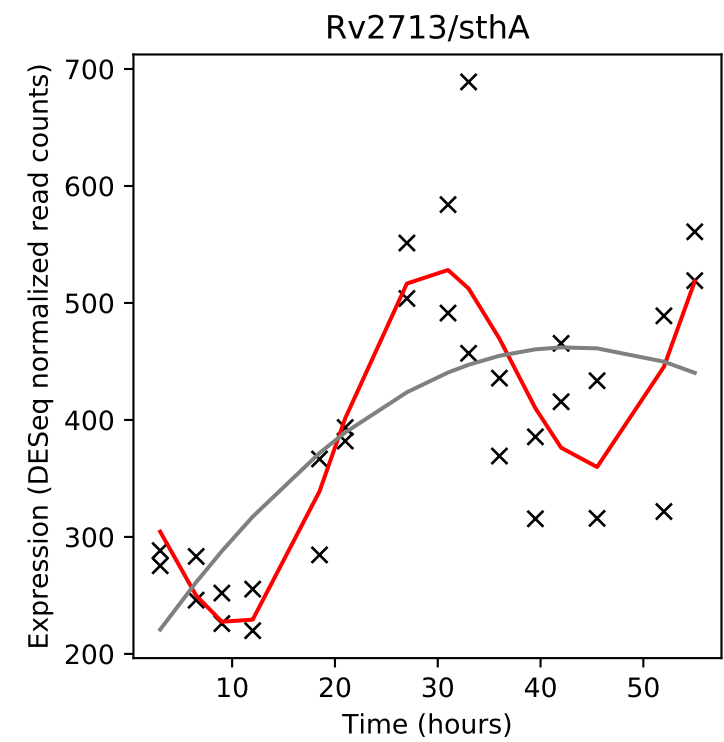
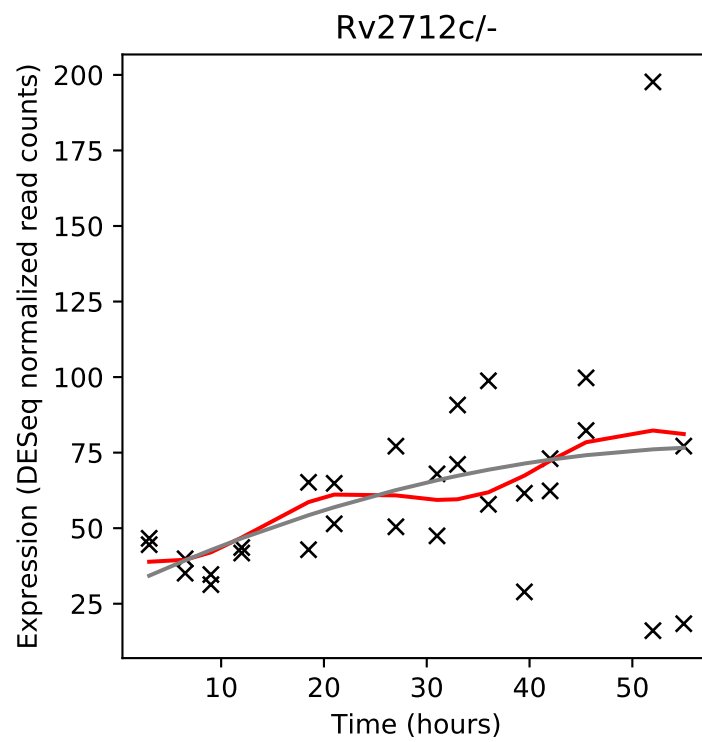
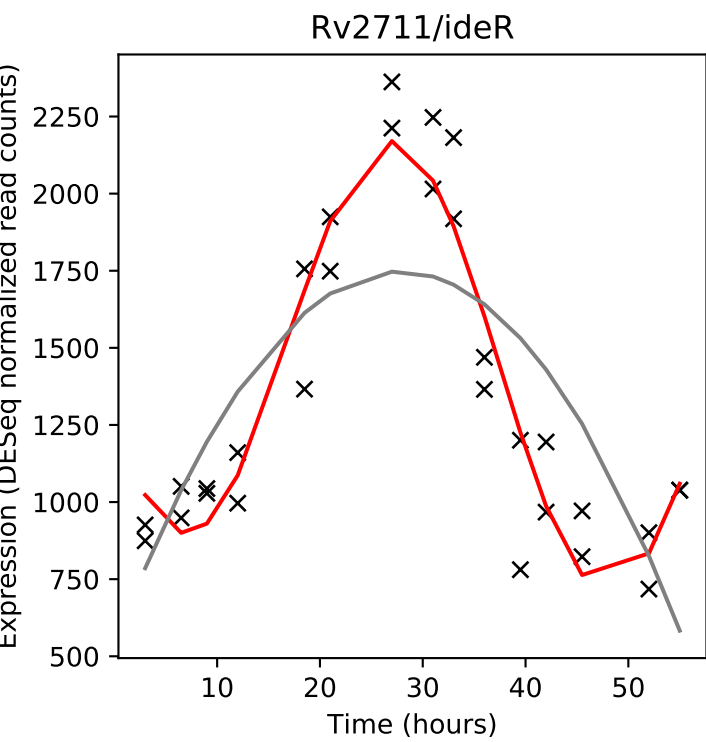
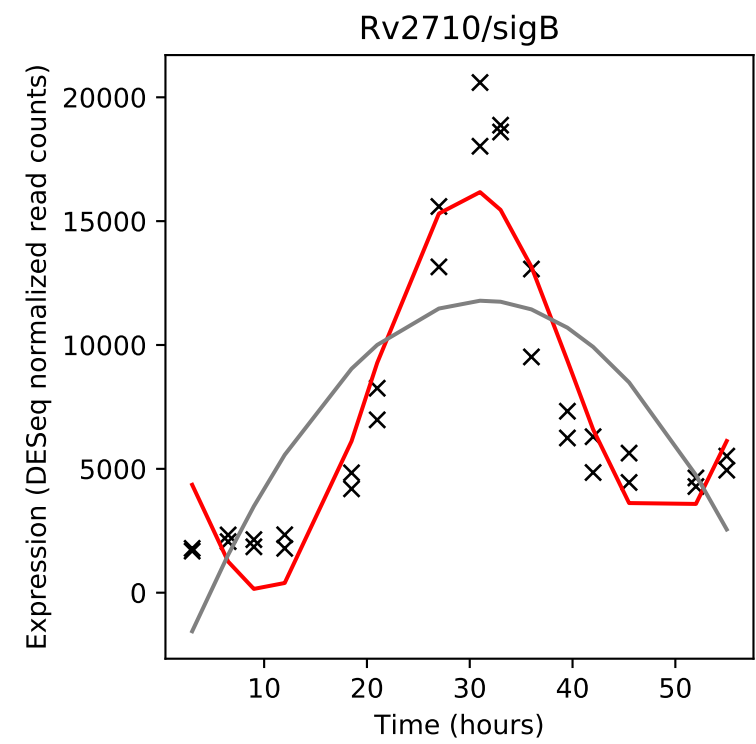
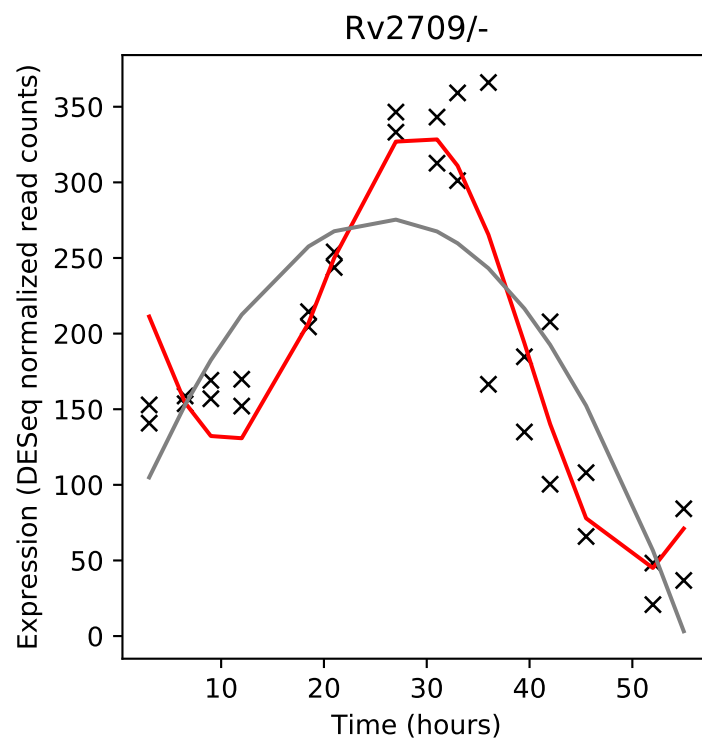
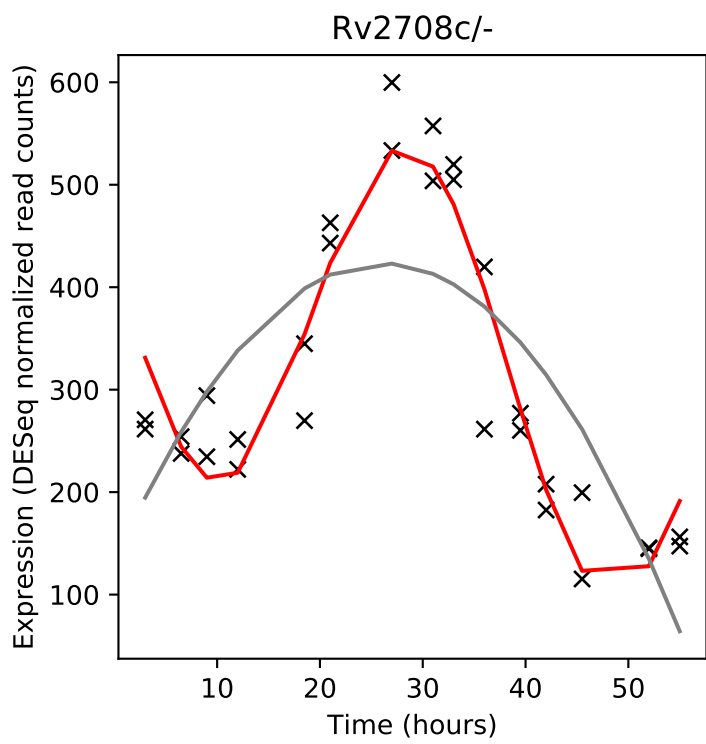
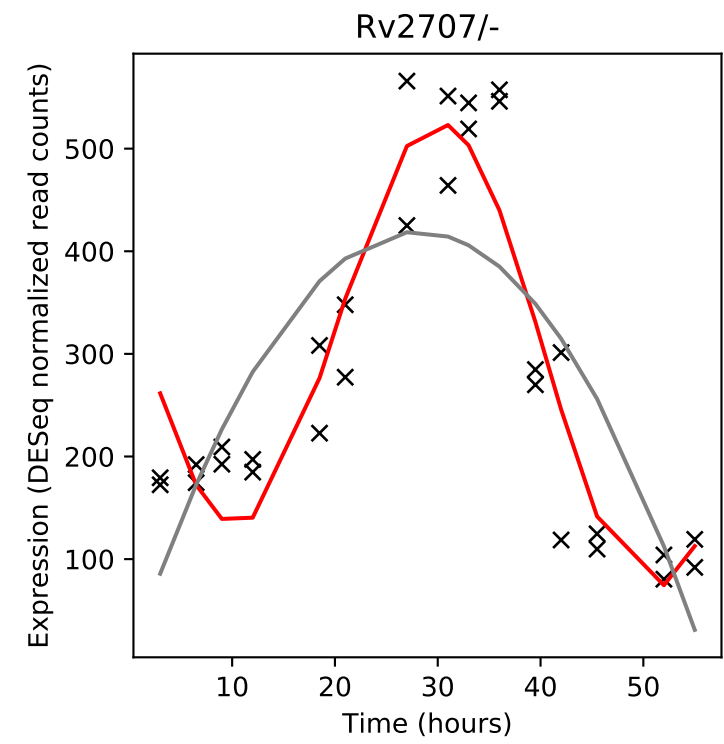
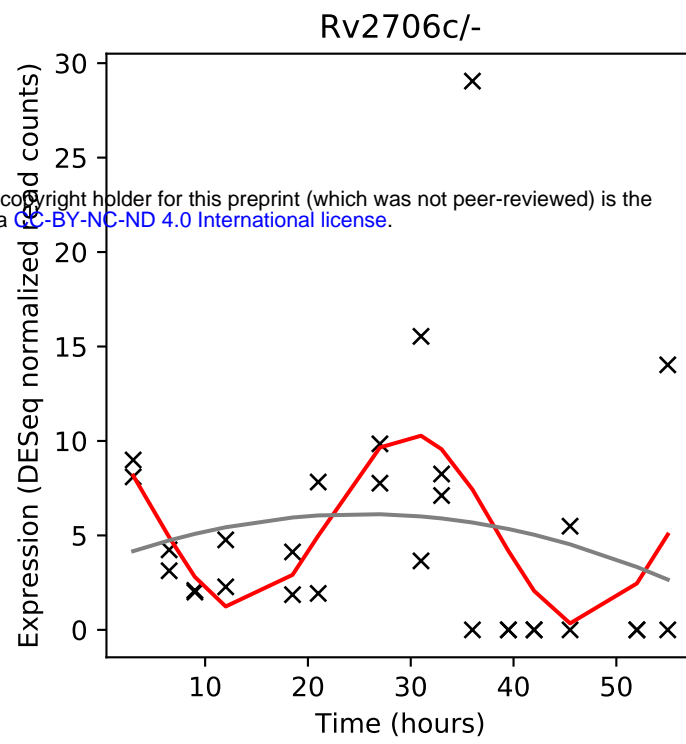
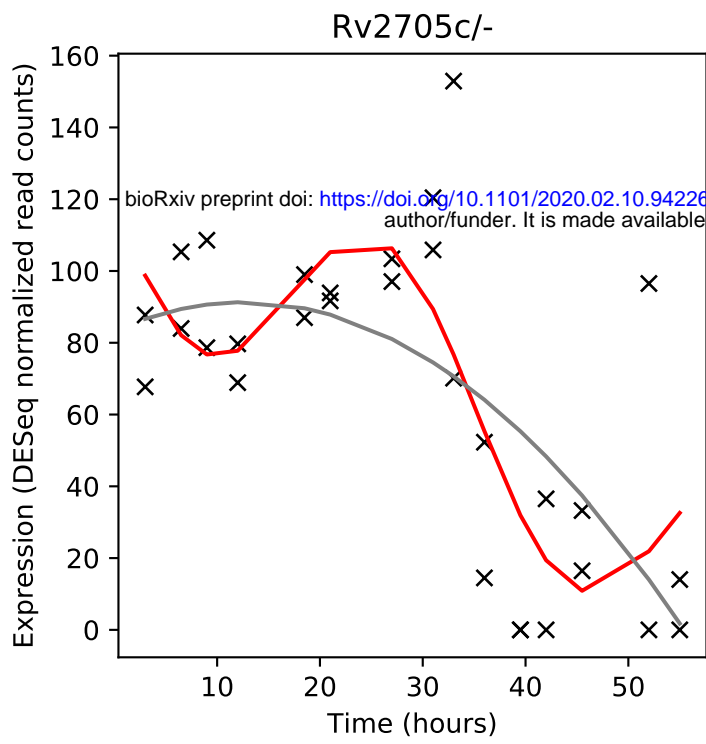


Rv2703/sigA

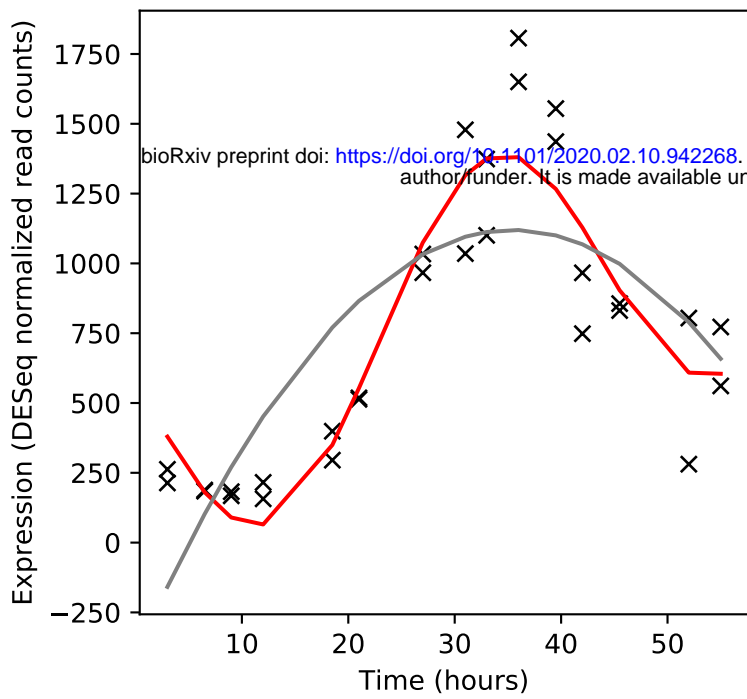


Rv2704/-

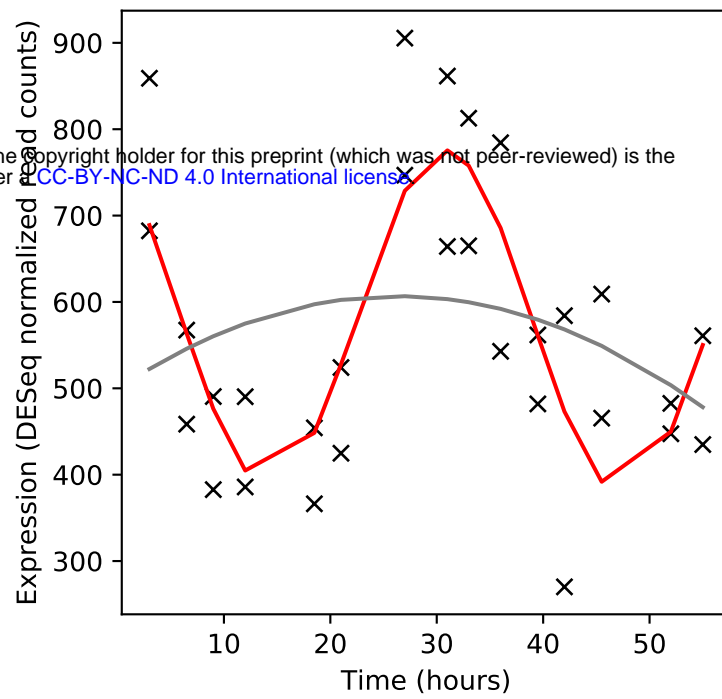




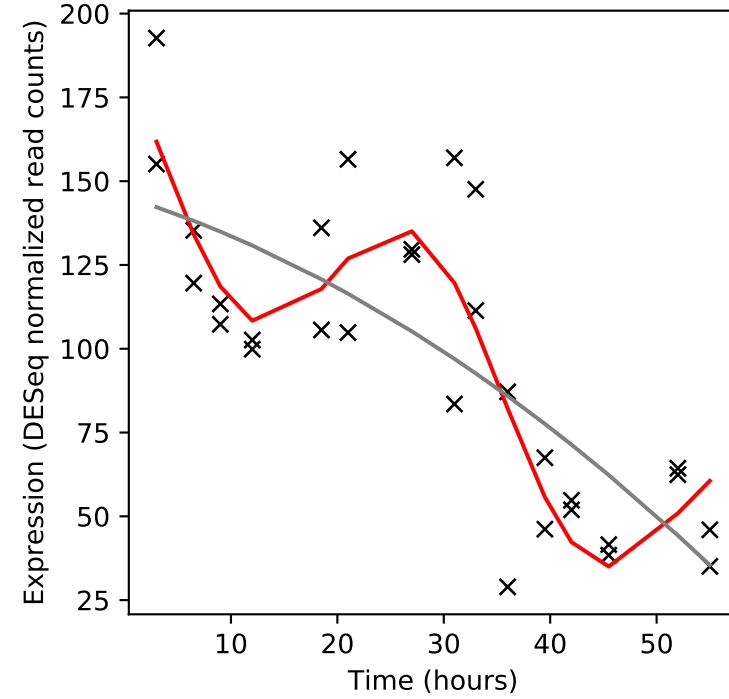
Rv2714/-



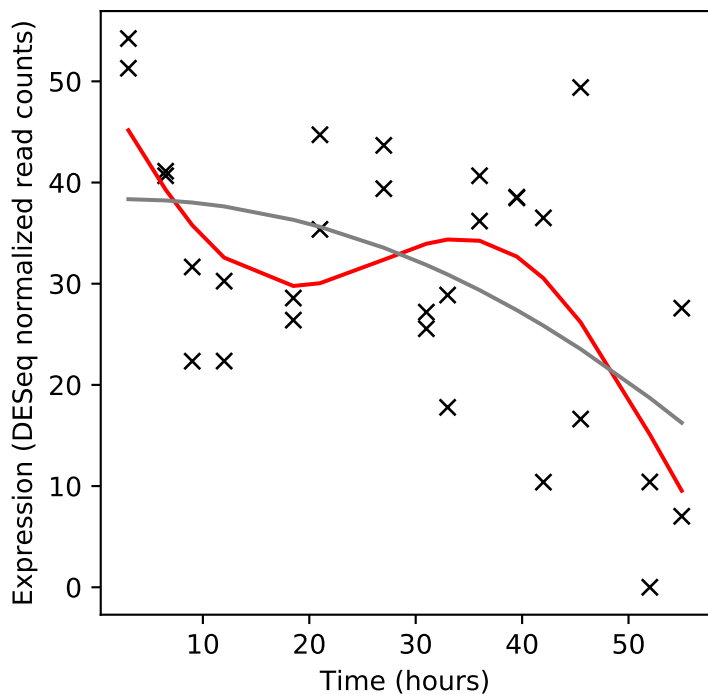
Rv2715/-



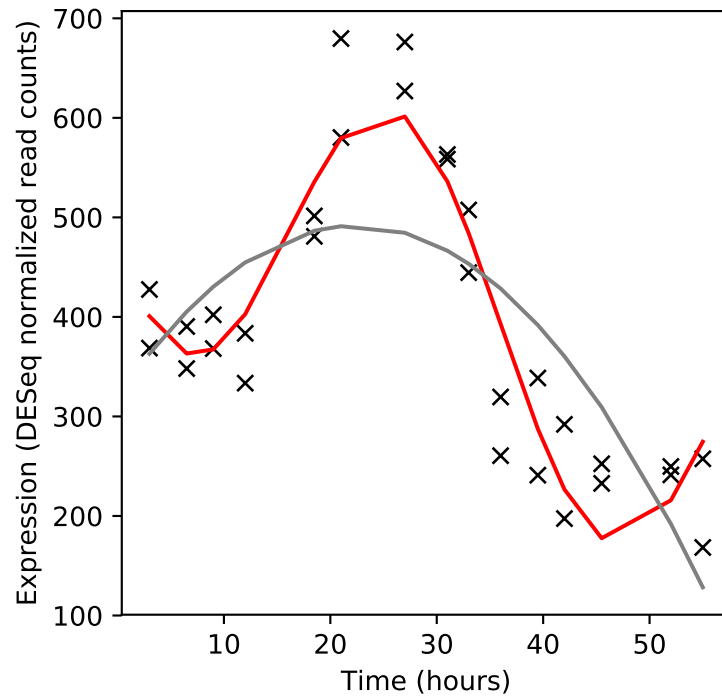
Rv2716/-



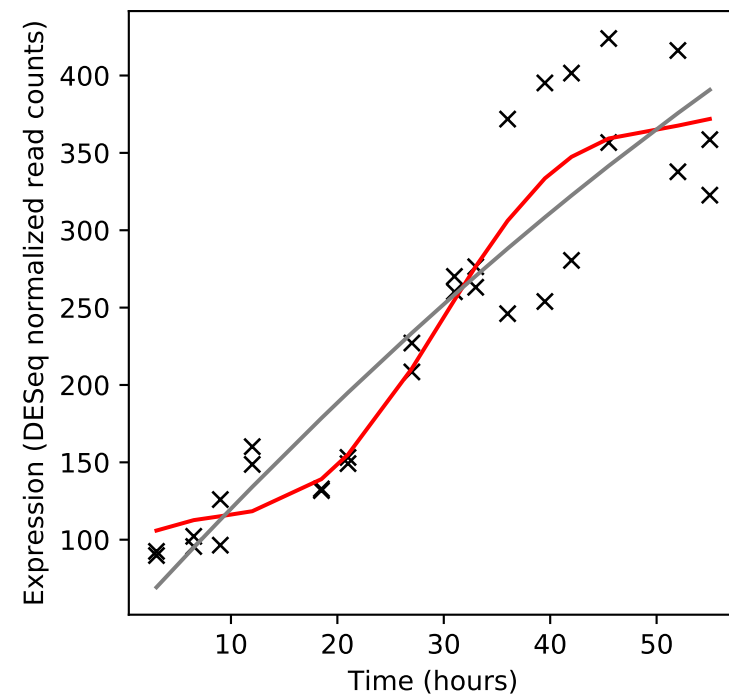
Rv2717c/-



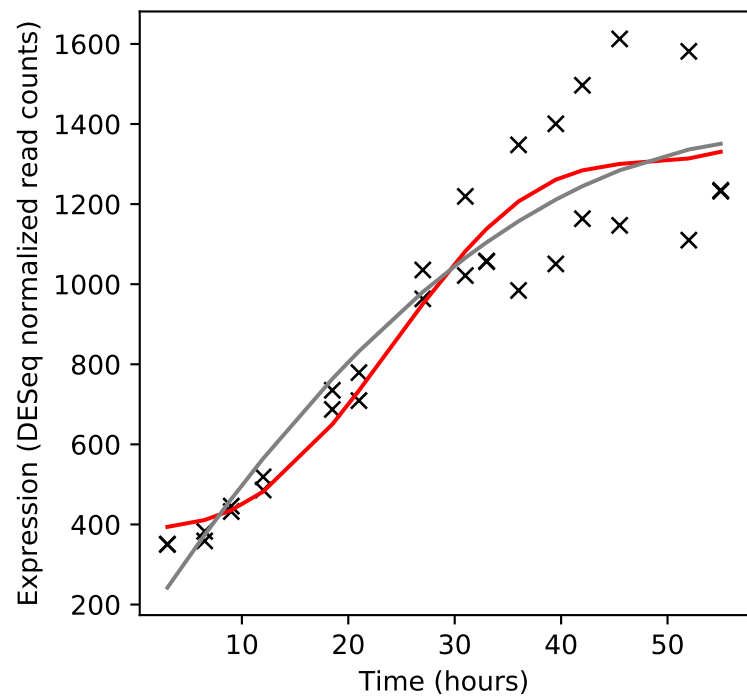
Rv2718c/nrdR



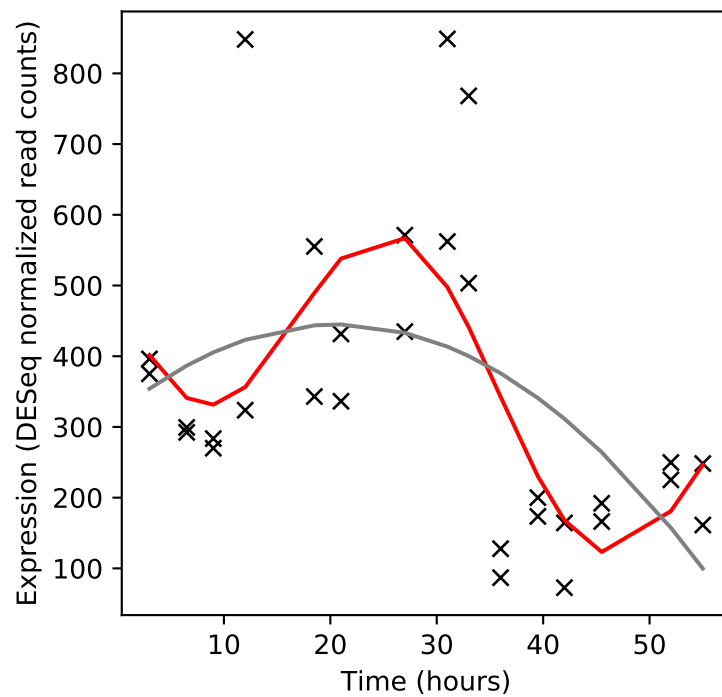
Rv2719c/-



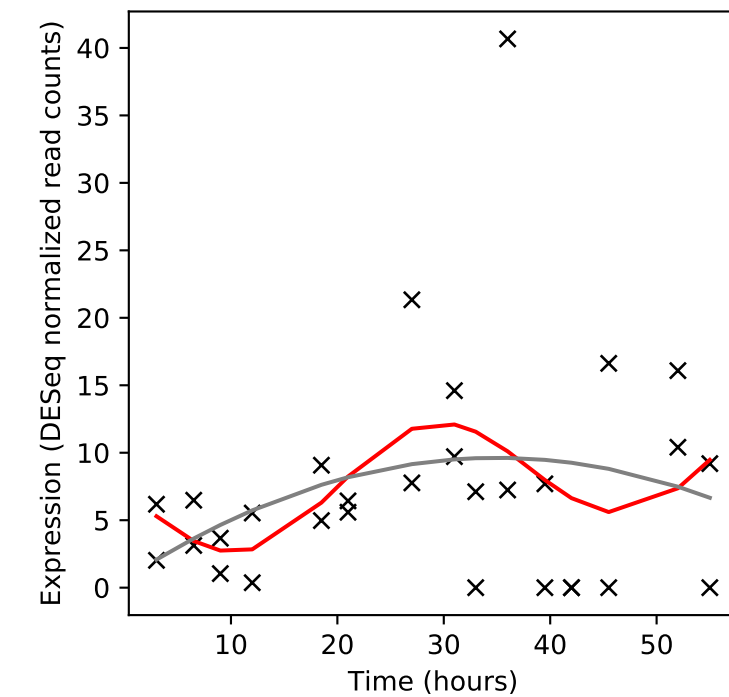
Rv2720/lexA



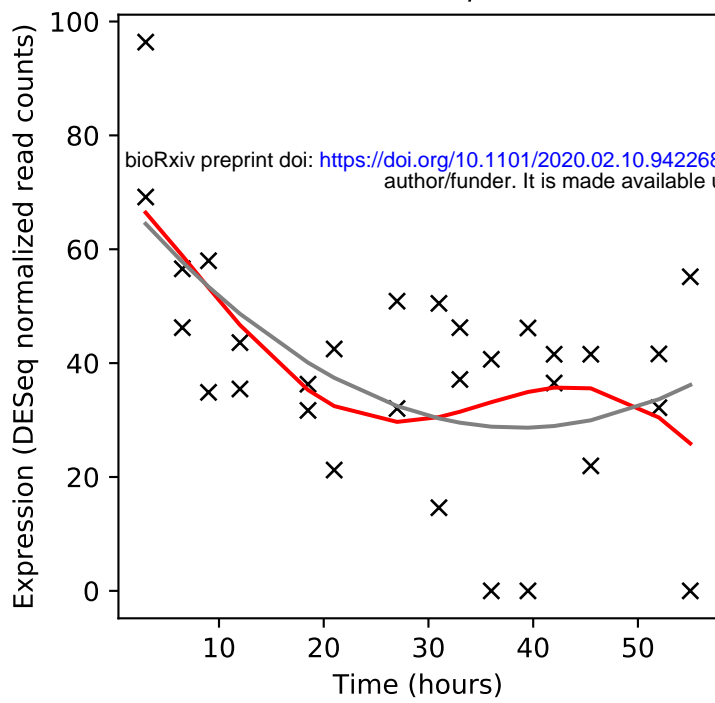
Rv2721c/-



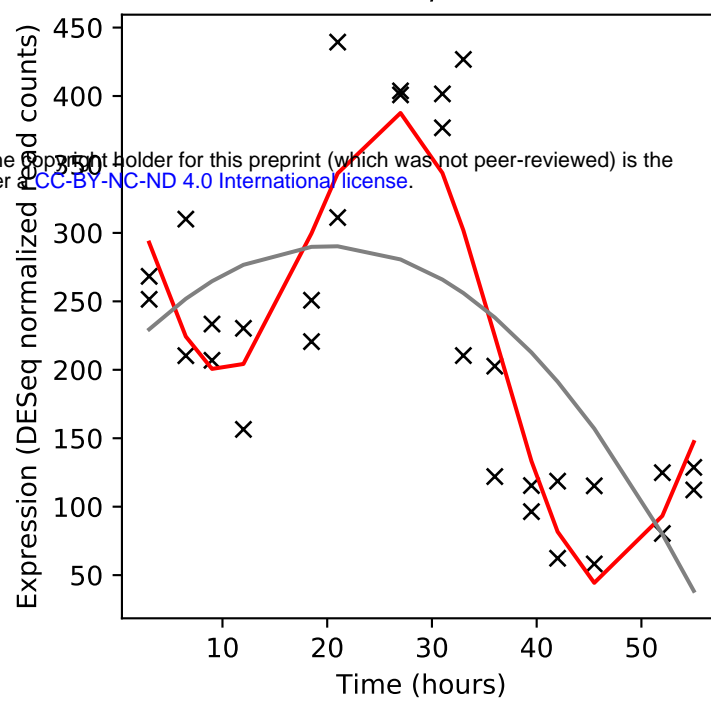
Rv2722/-



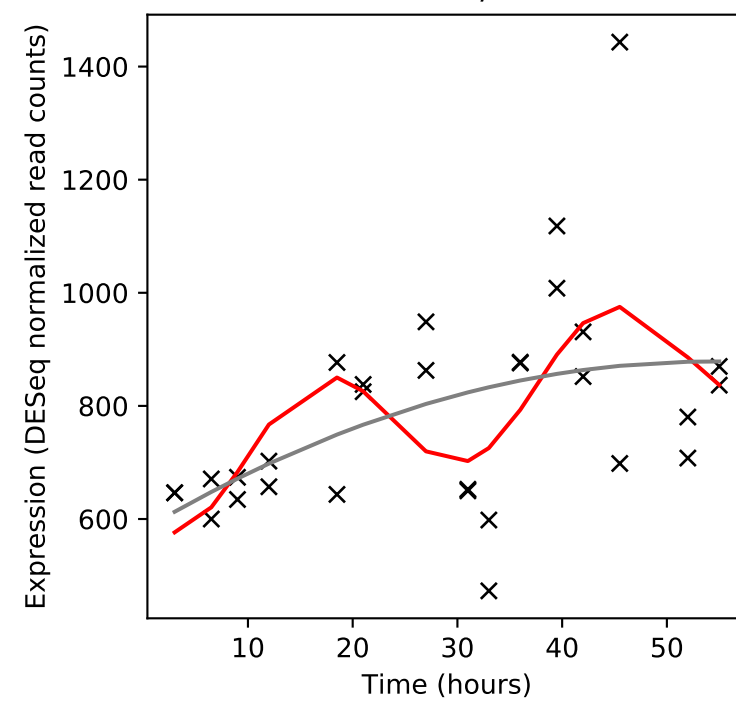
Rv2723/-



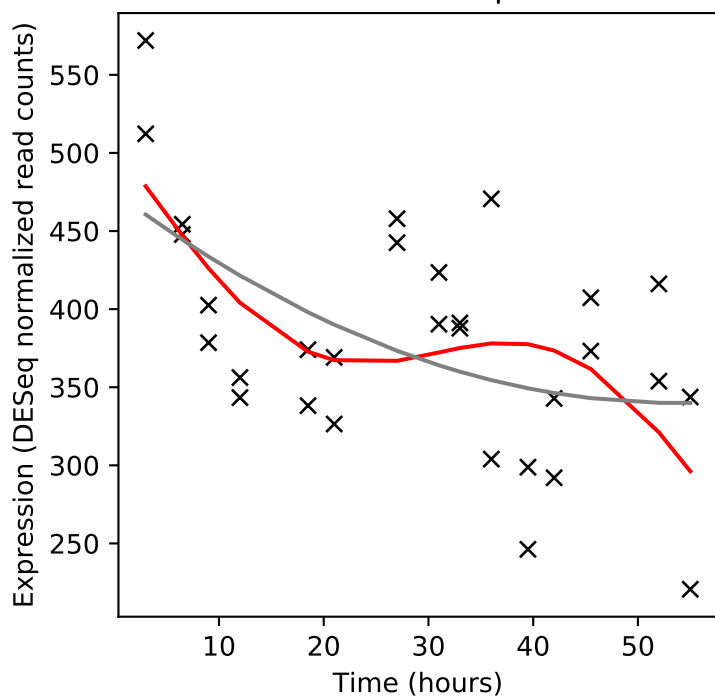
Rv2724c/fadE20



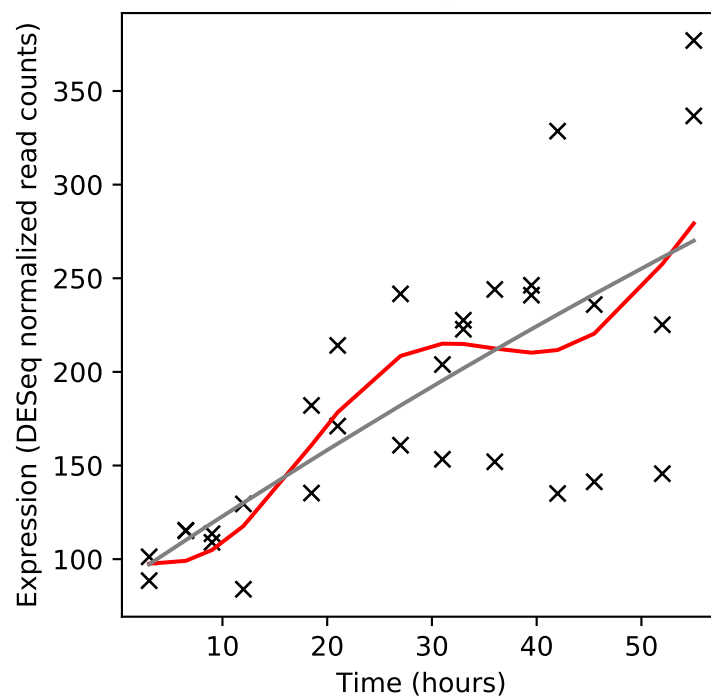
Rv2725c/hflX



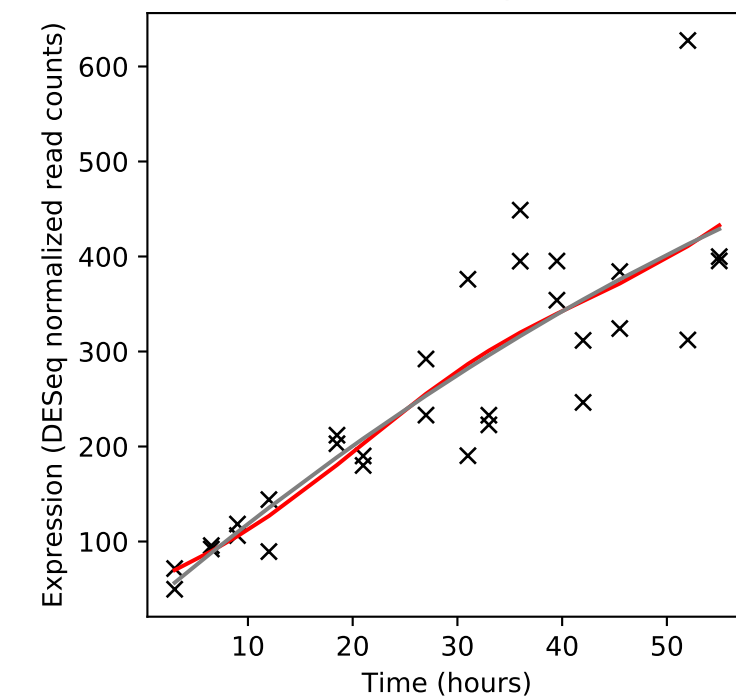
Rv2726c/dapF



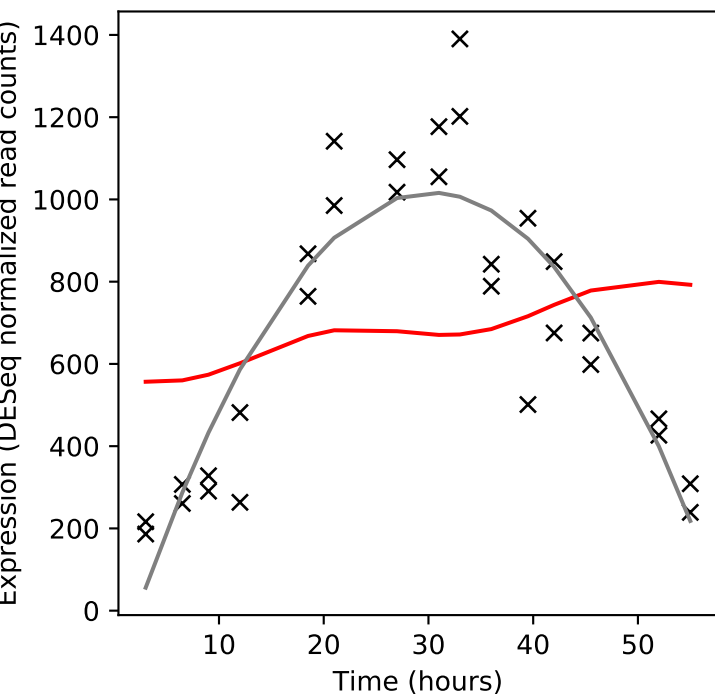
Rv2727c/miaA



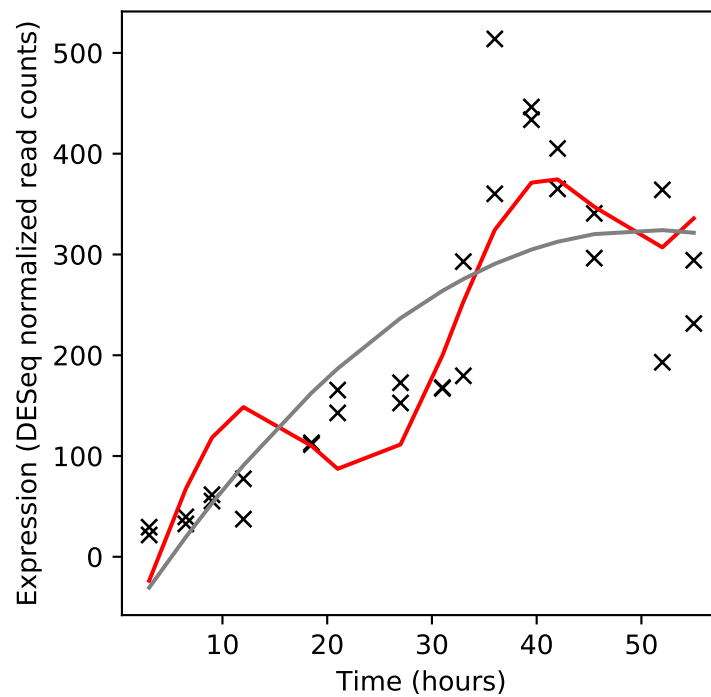
Rv2728c/-



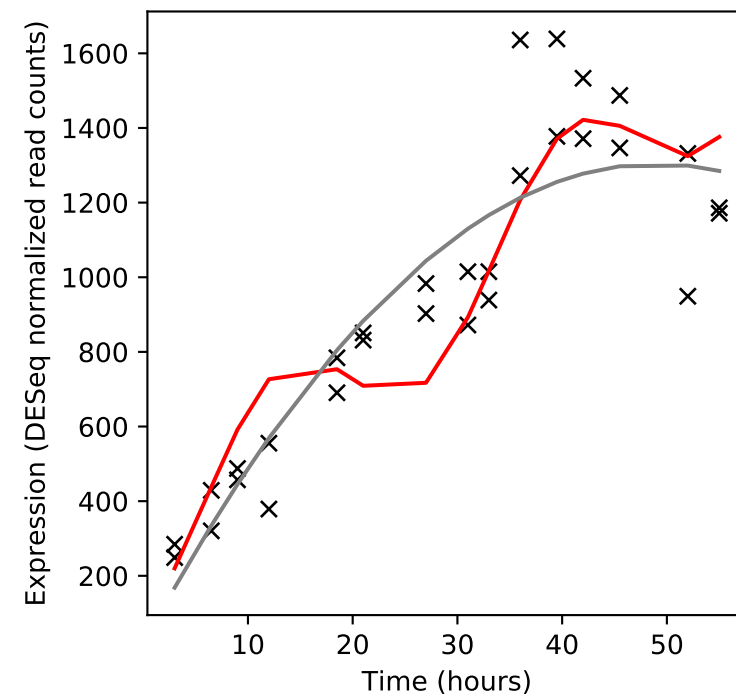
Rv2729c/-



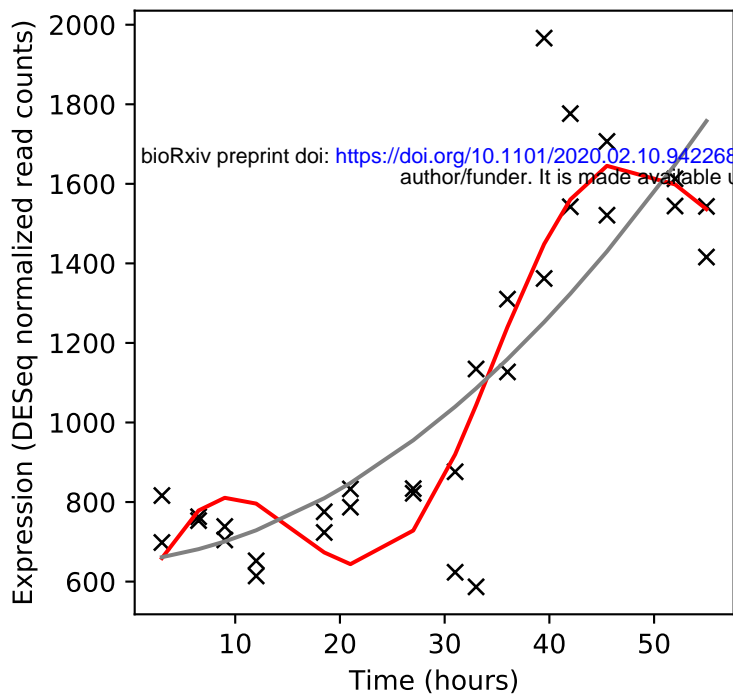
Rv2730/-



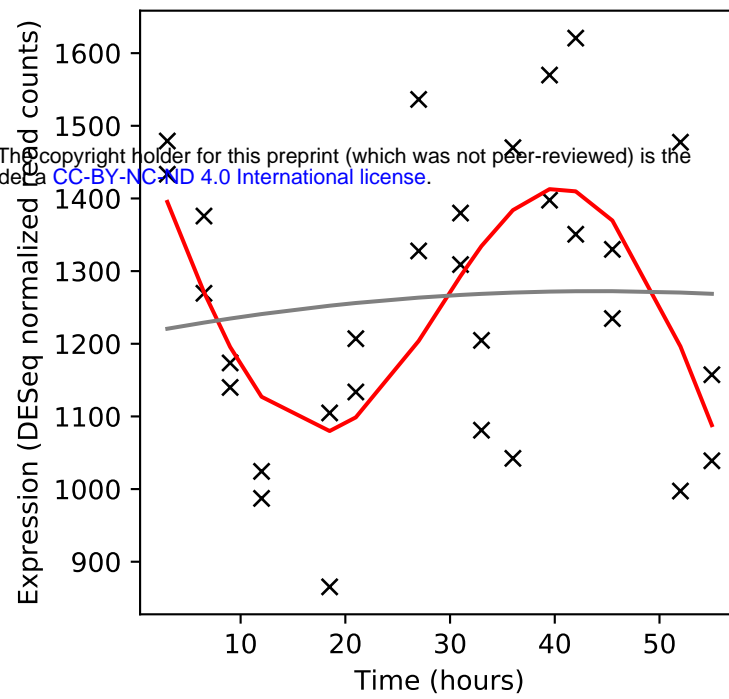
Rv2731/-



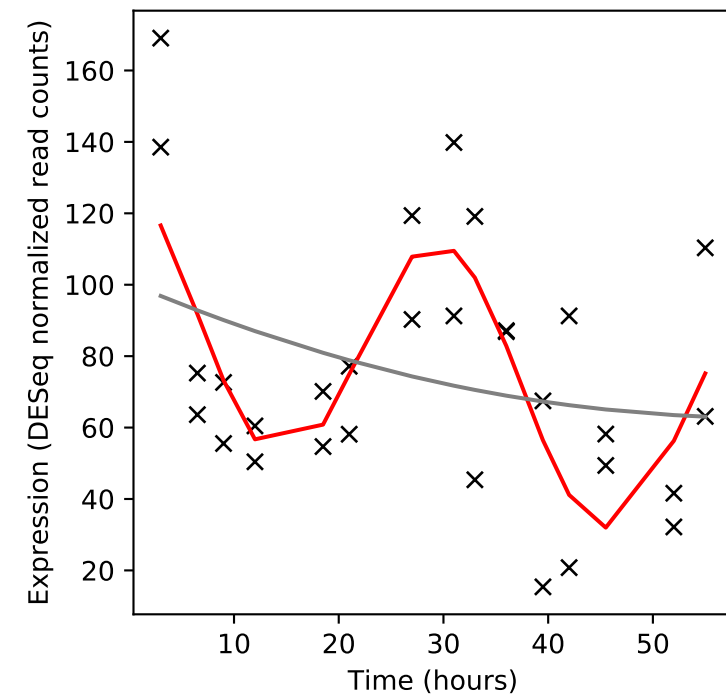
Rv2732c/-



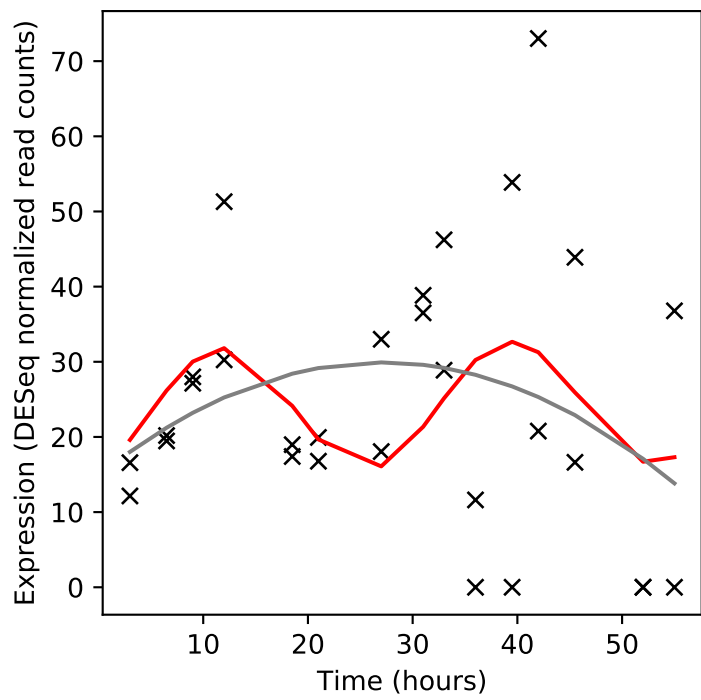
Rv2733c/-



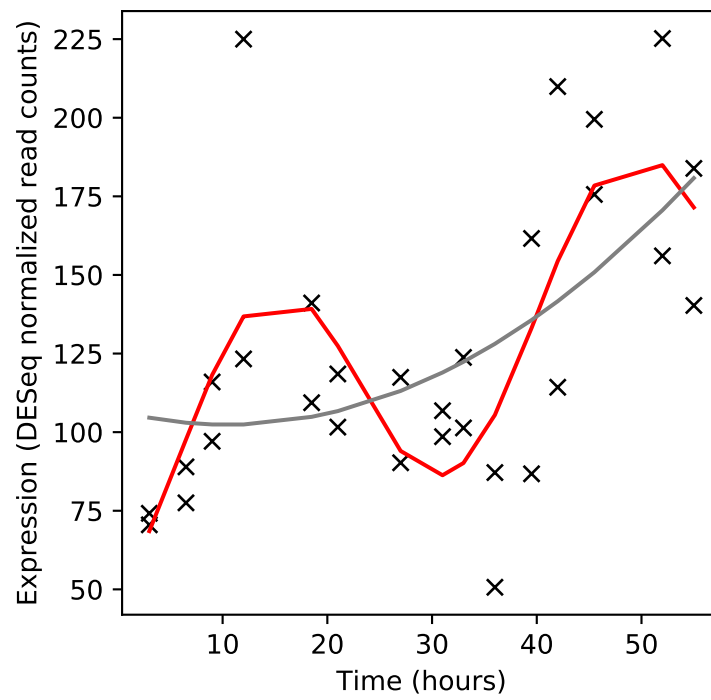
Rv2734/-



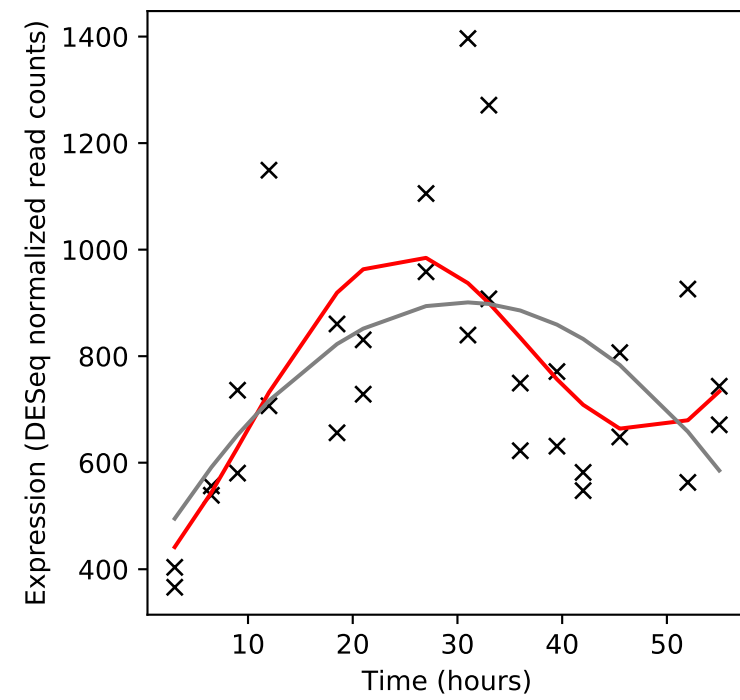
Rv2735c/-



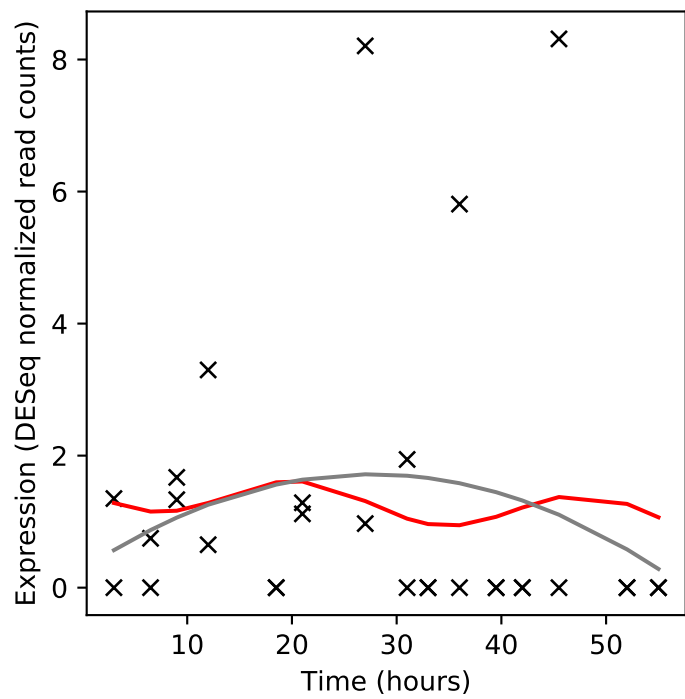
Rv2736c/recX



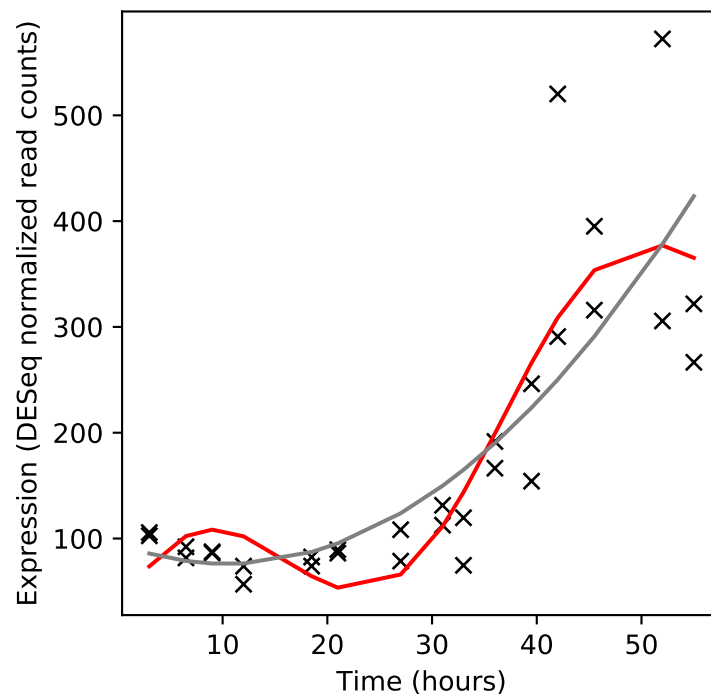
Rv2737c/recA



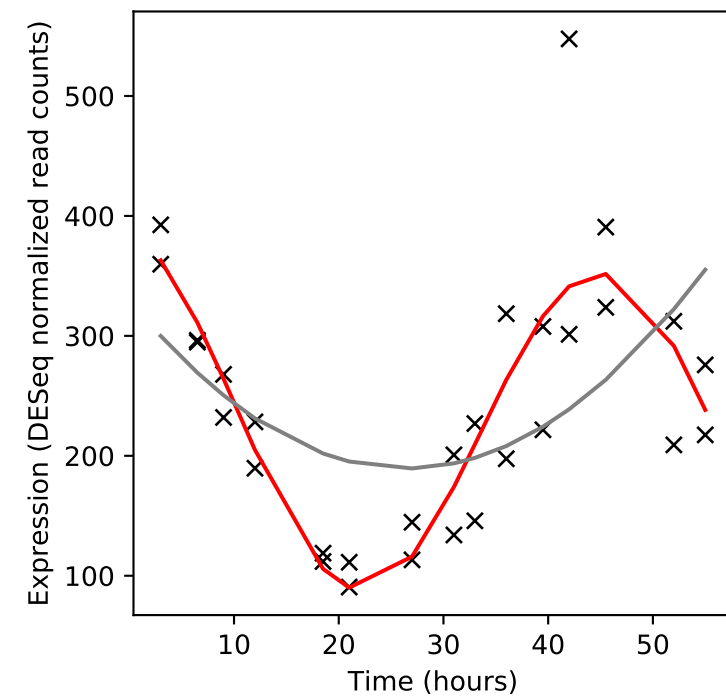
Rv2737A/-



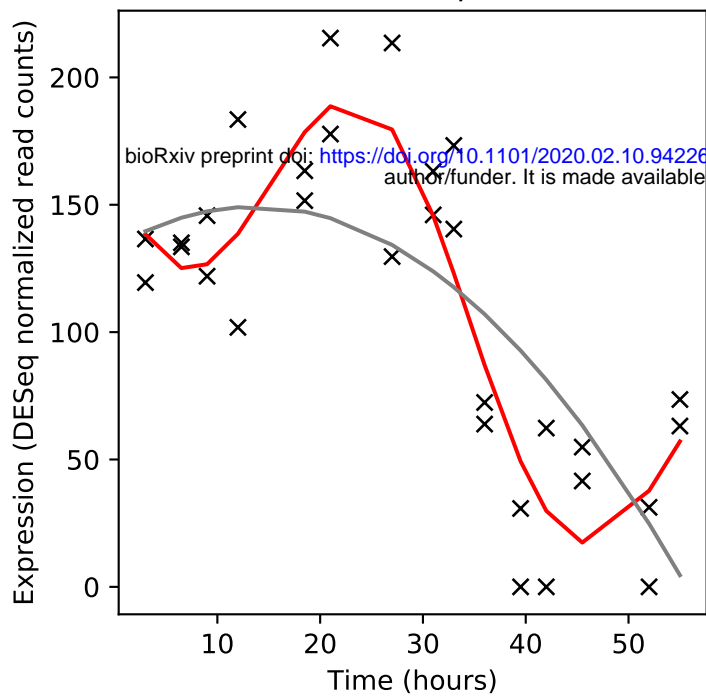
Rv2738c/-



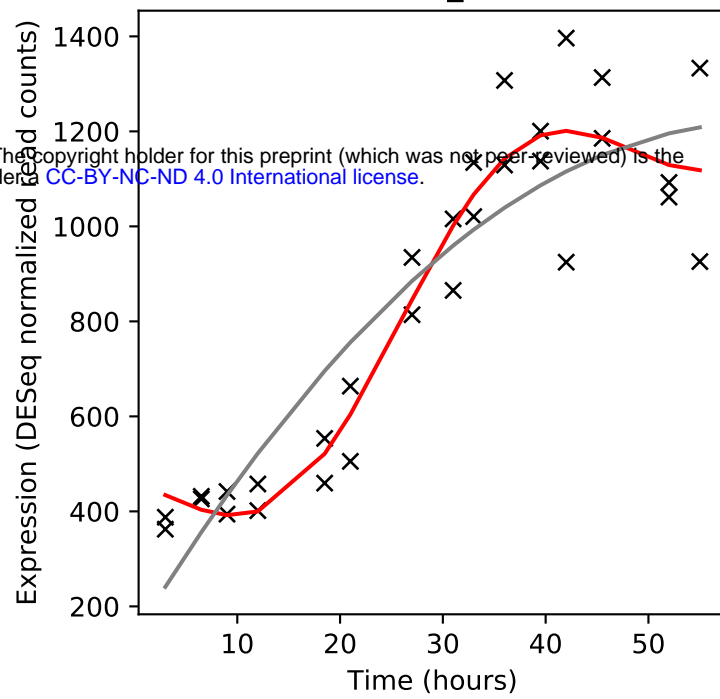
Rv2739c/-



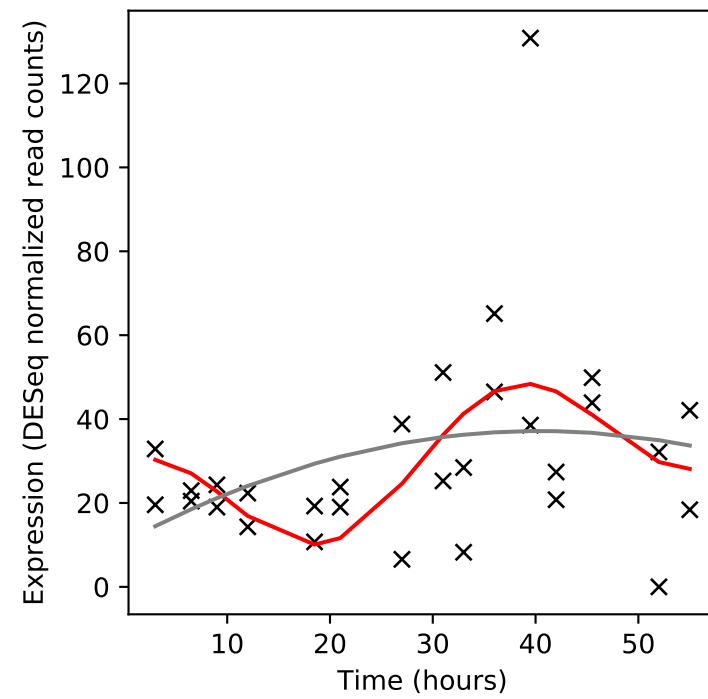
Rv2740/ephG



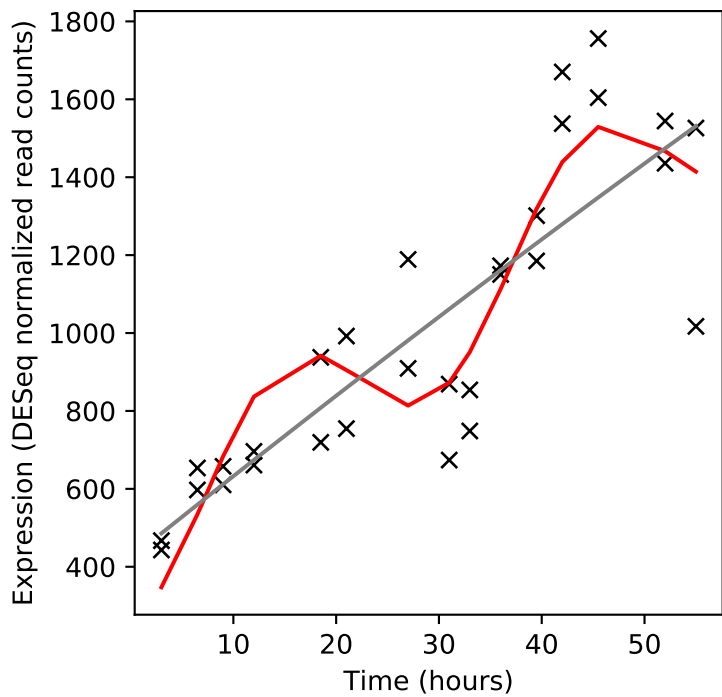
Rv2741/PE_PGRS47



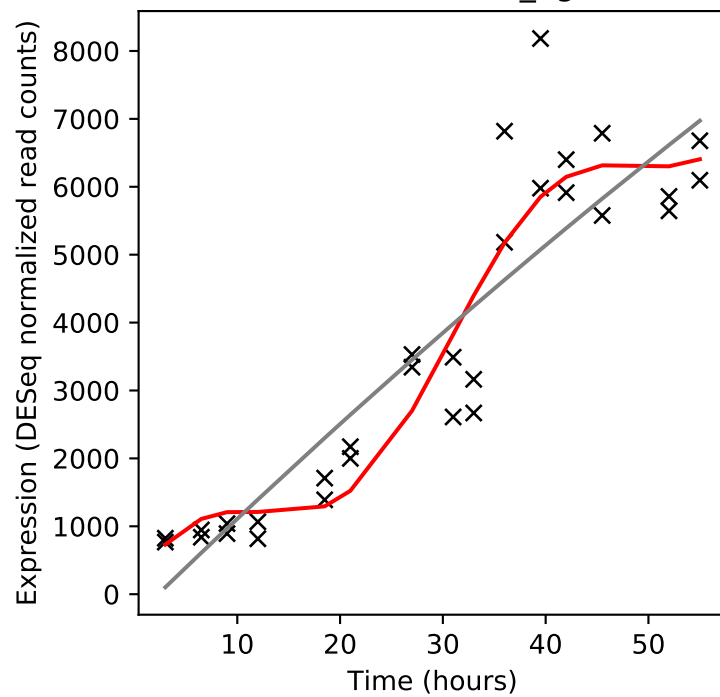
Rv2742c/-



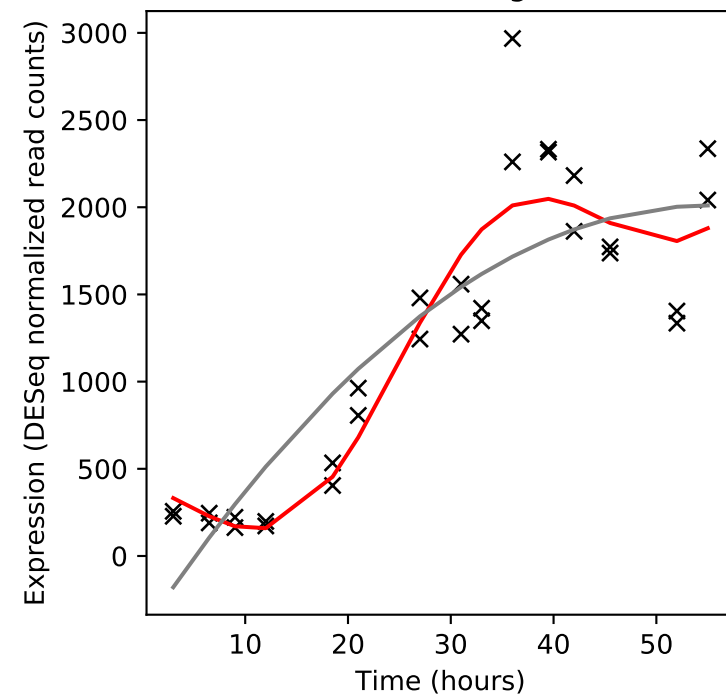
Rv2743c/-



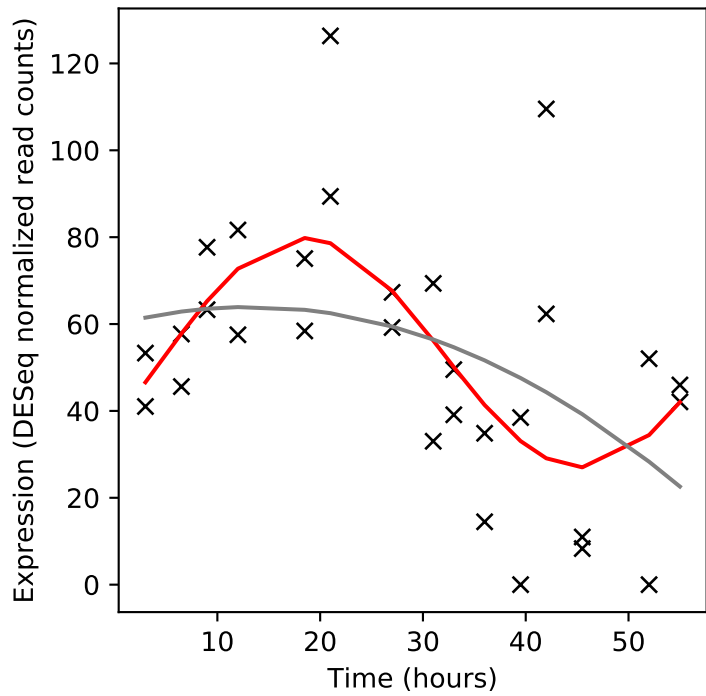
Rv2744c/35kd_ag



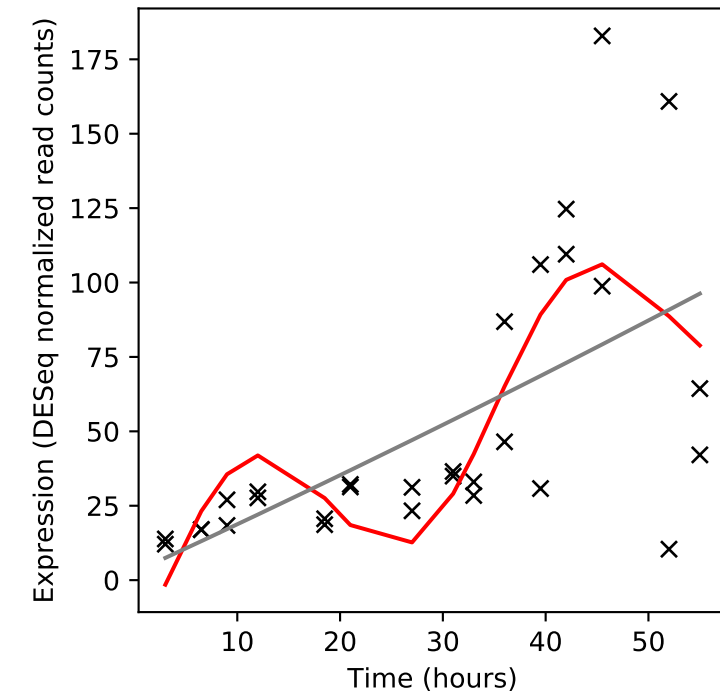
Rv2745c/clgR



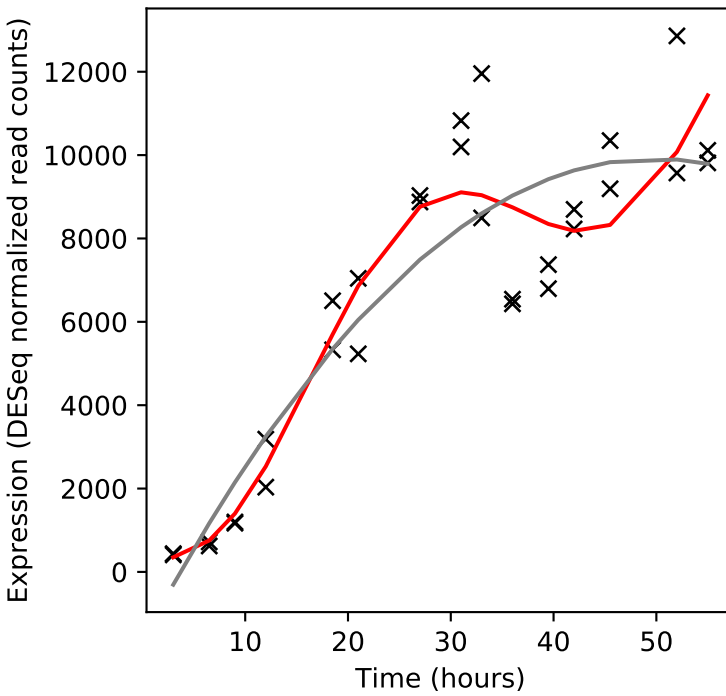
Rv2746c/pgsA3



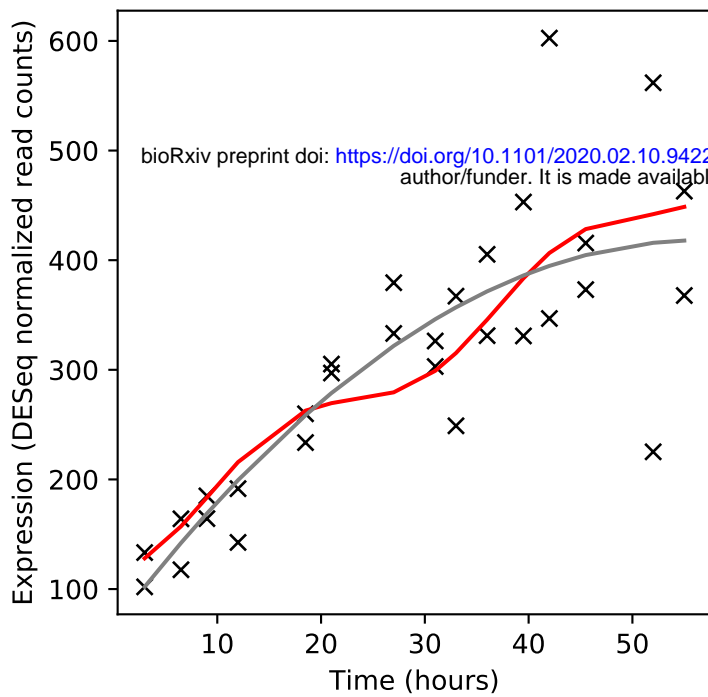
Rv2747/argA



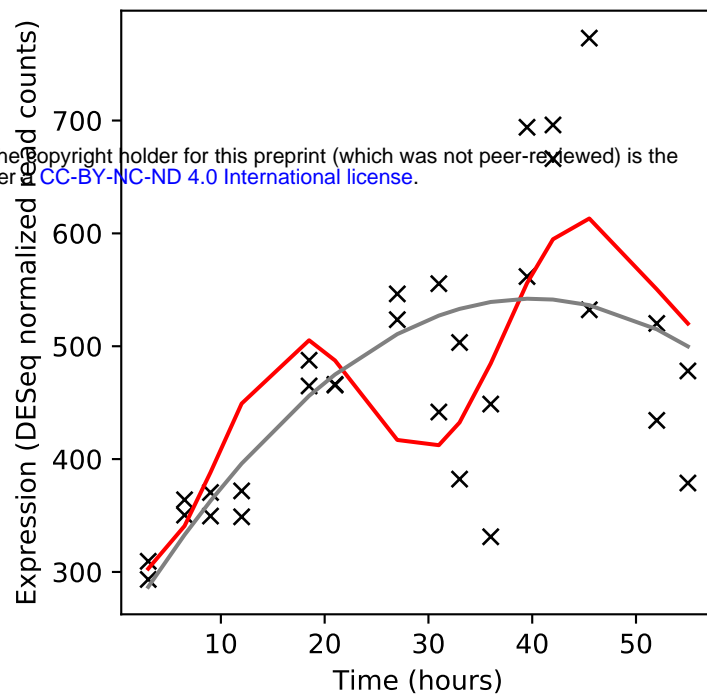
Rv2748c/ftsK



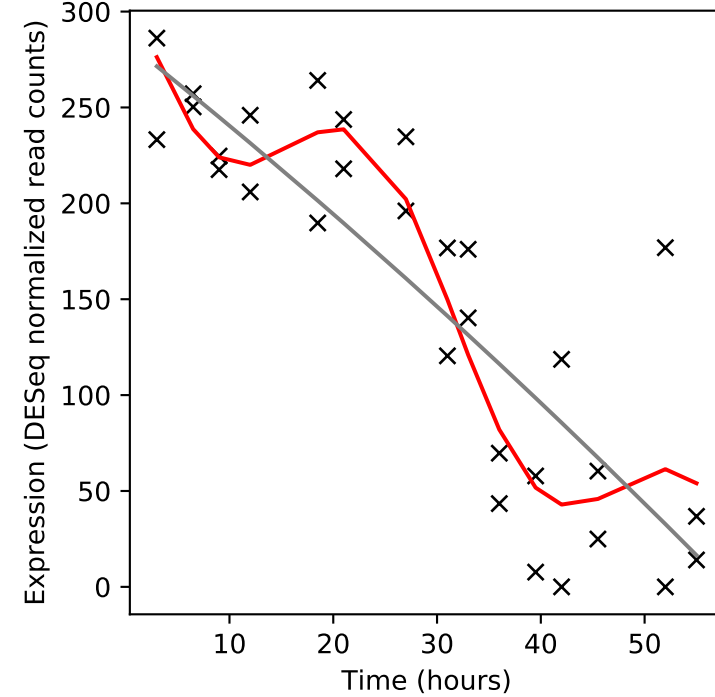
Rv2749/-



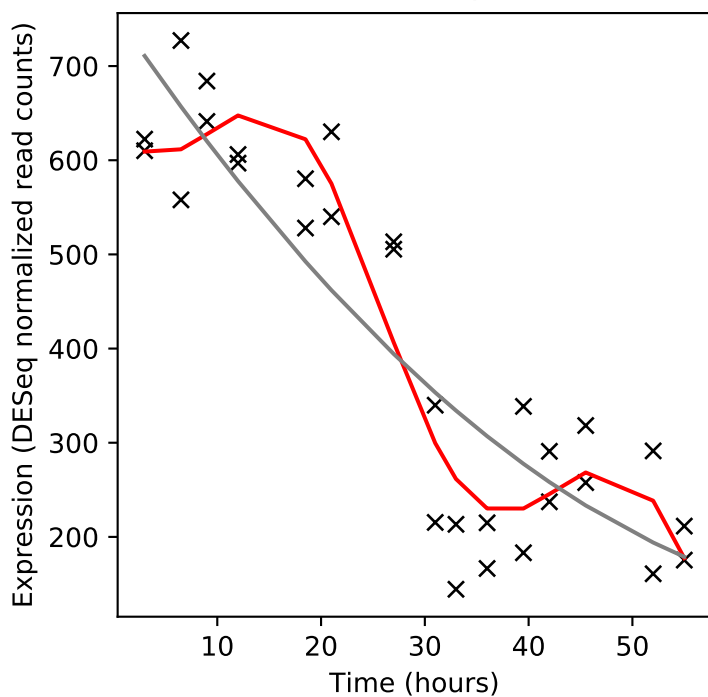
Rv2750/-



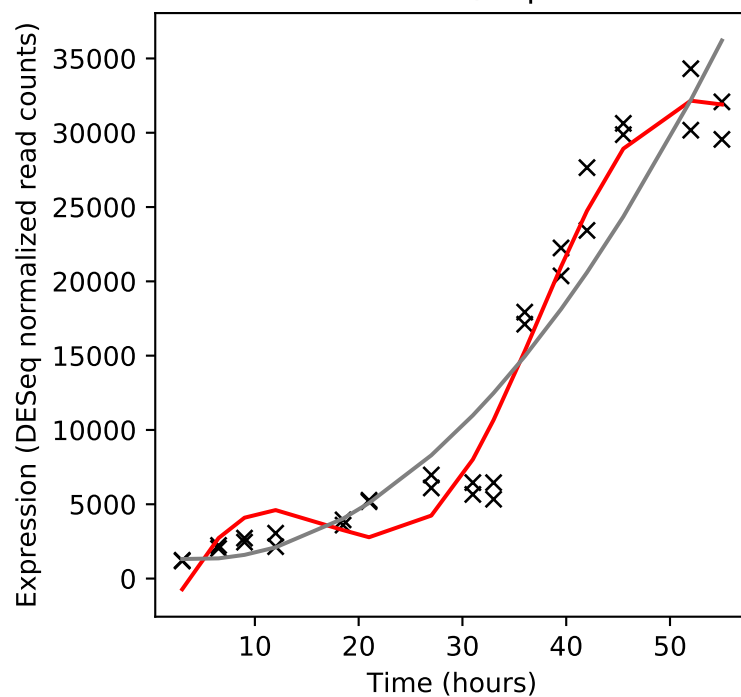
Rv2751/-



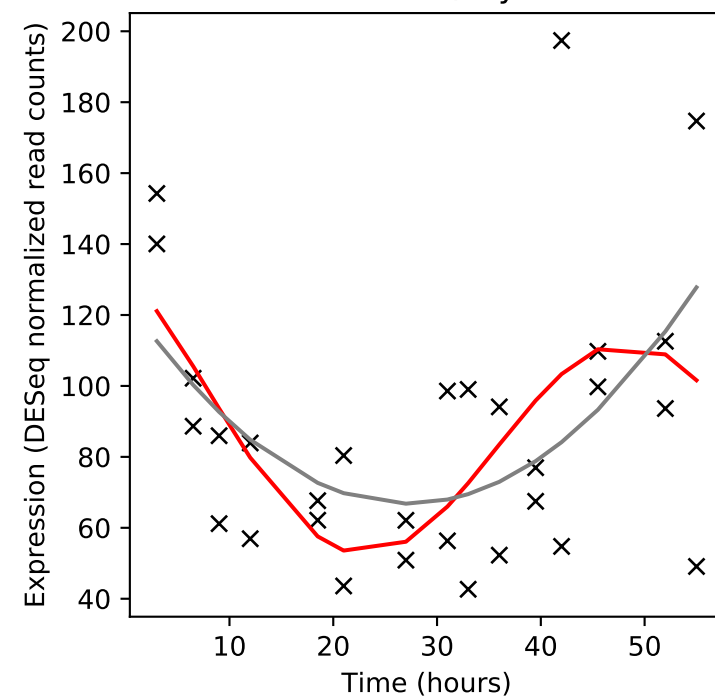
Rv2752c/-



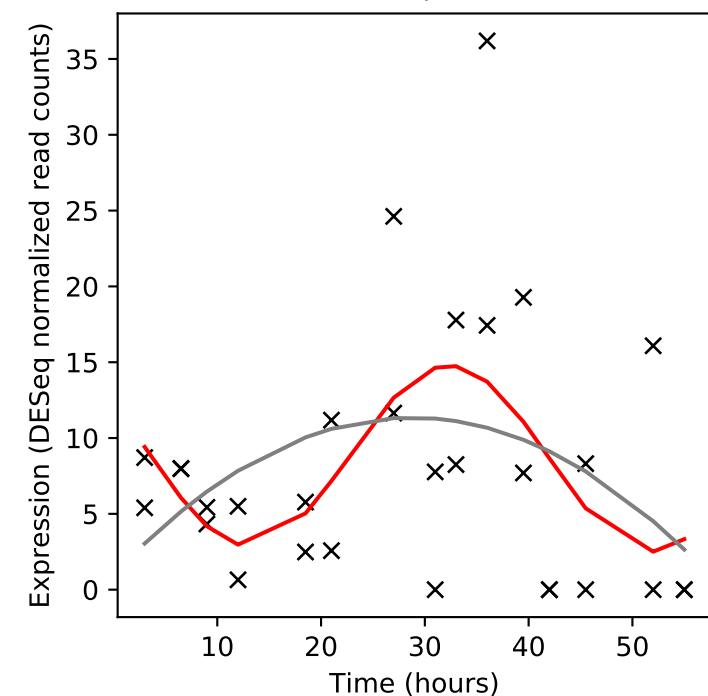
Rv2753c/dapA



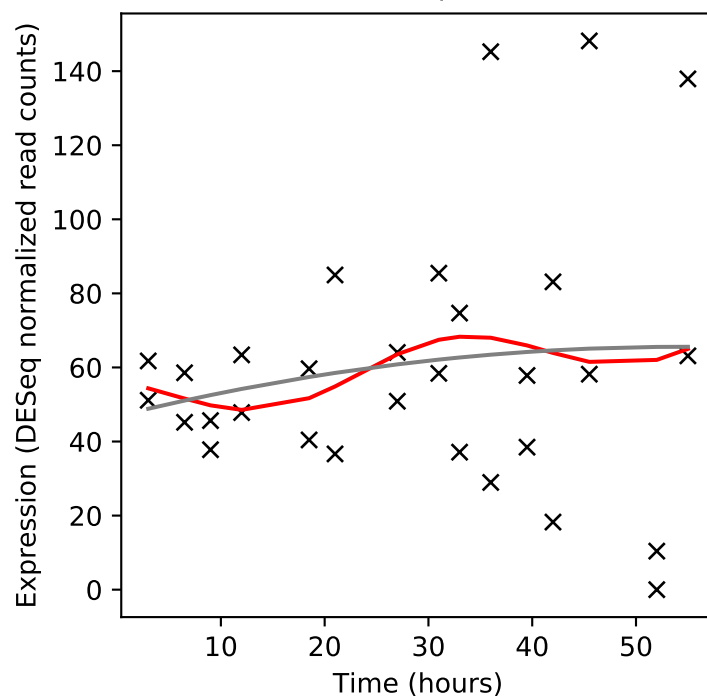
Rv2754c/thyX



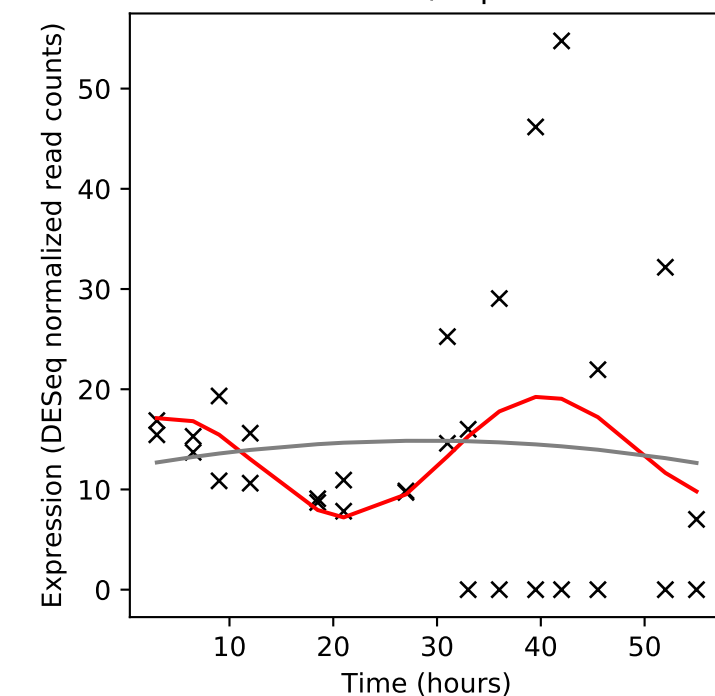
Rv2755c/hsdS.1



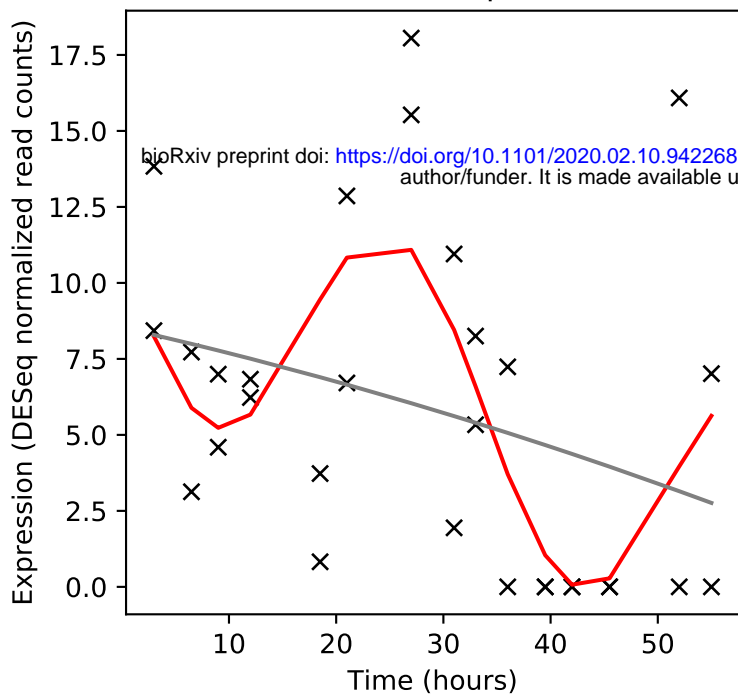
Rv2756c/hsdM



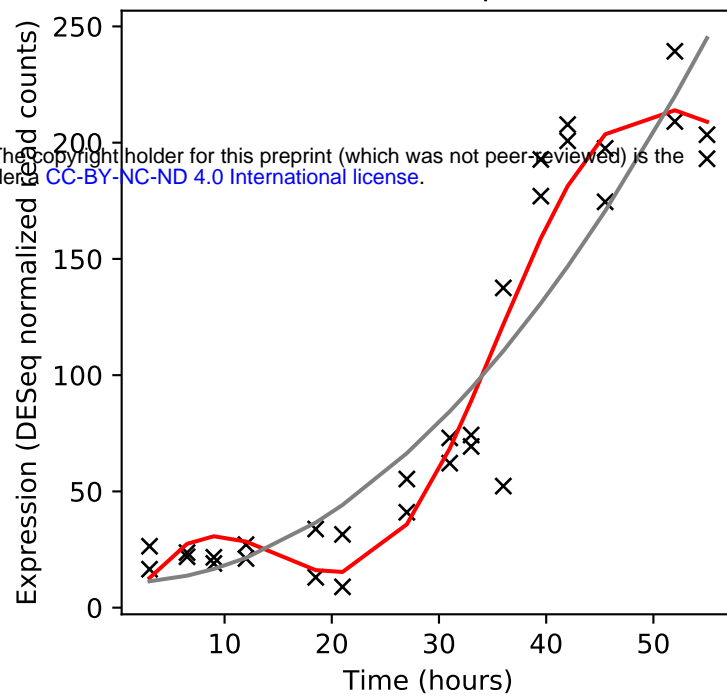
Rv2757c/vapC21



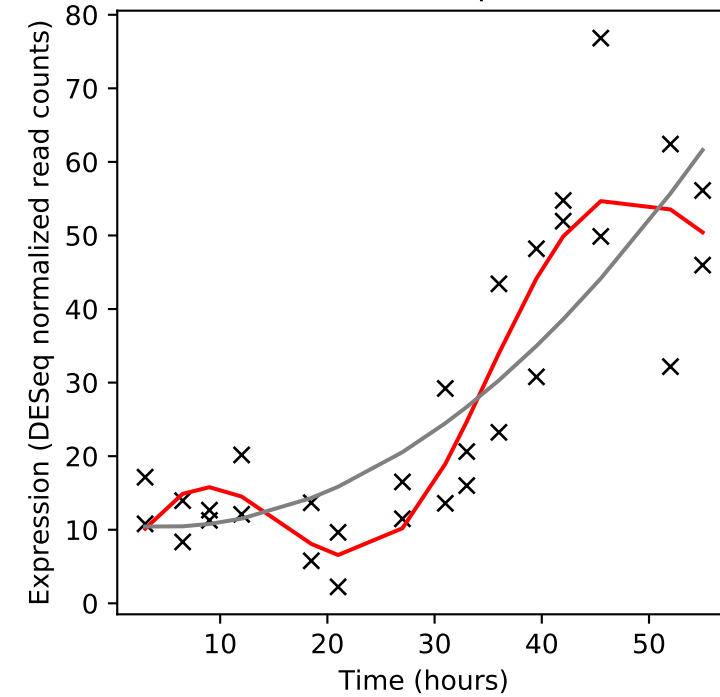
Rv2758c/vapB21



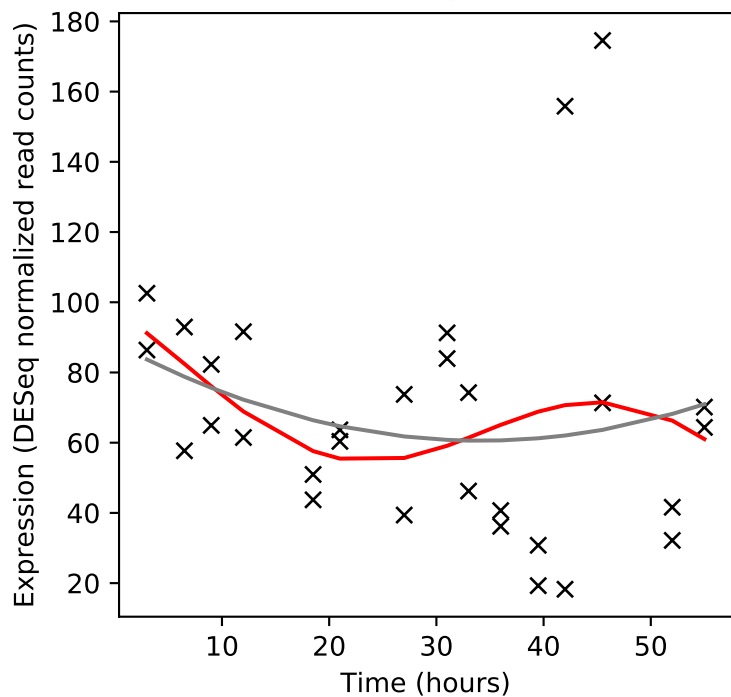
Rv2759c/vapC42



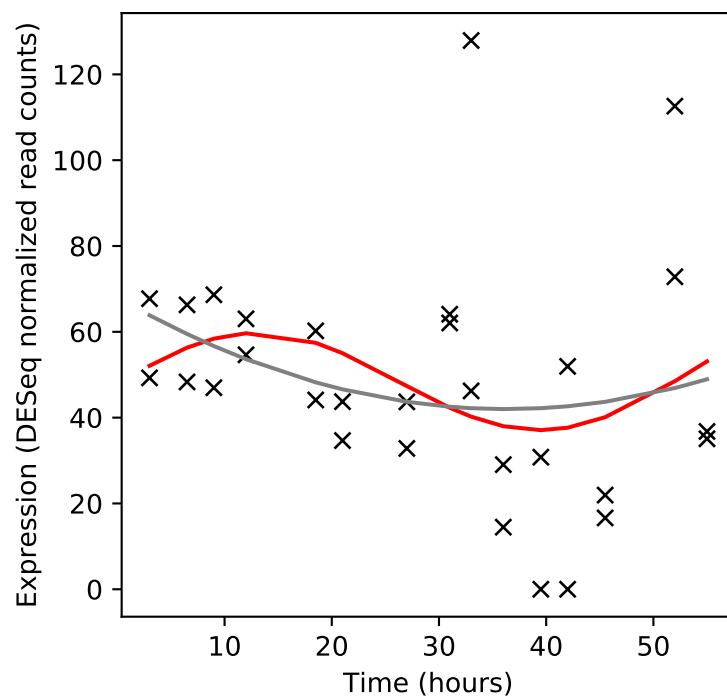
Rv2760c/vapB42



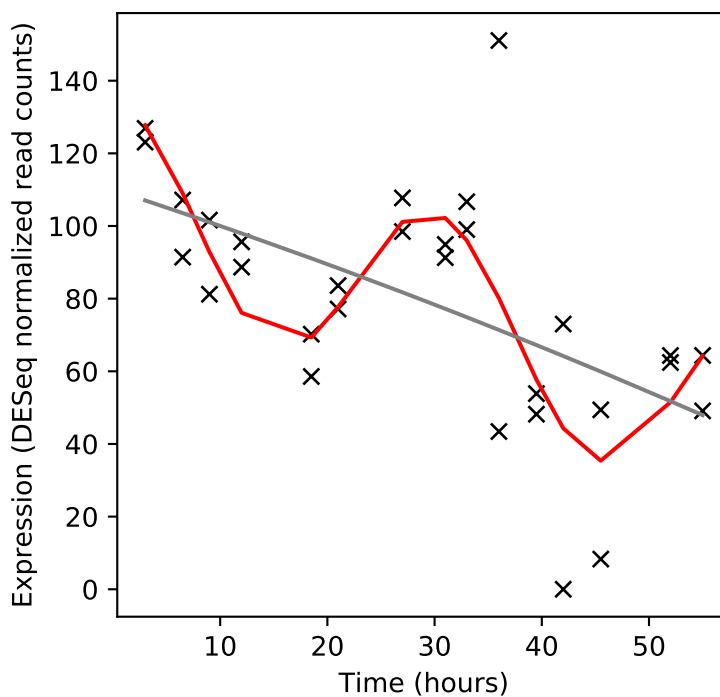
Rv2761c/hsdS



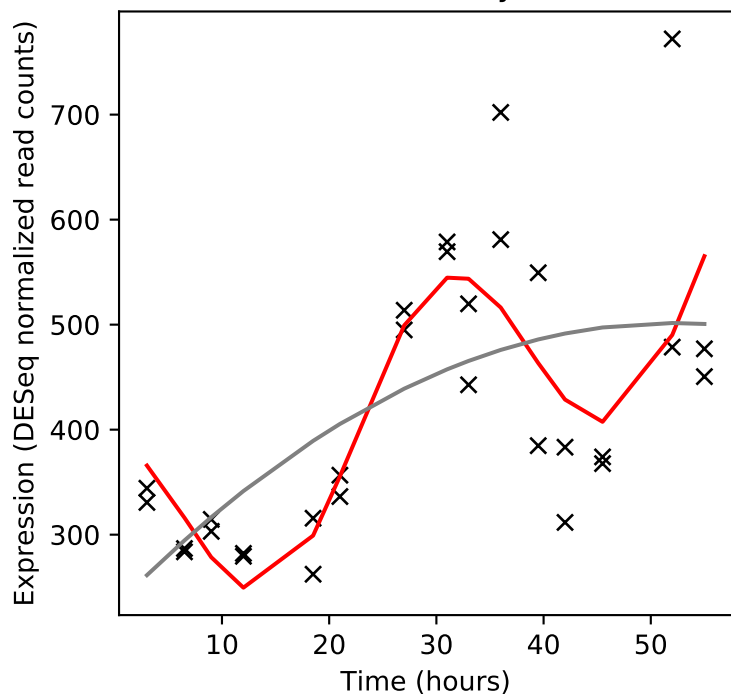
Rv2762c/-



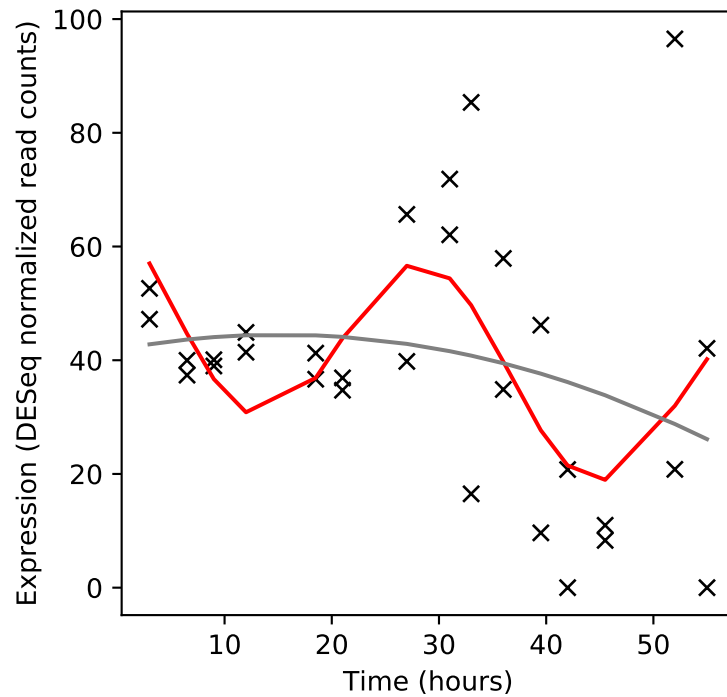
Rv2763c/dfrA



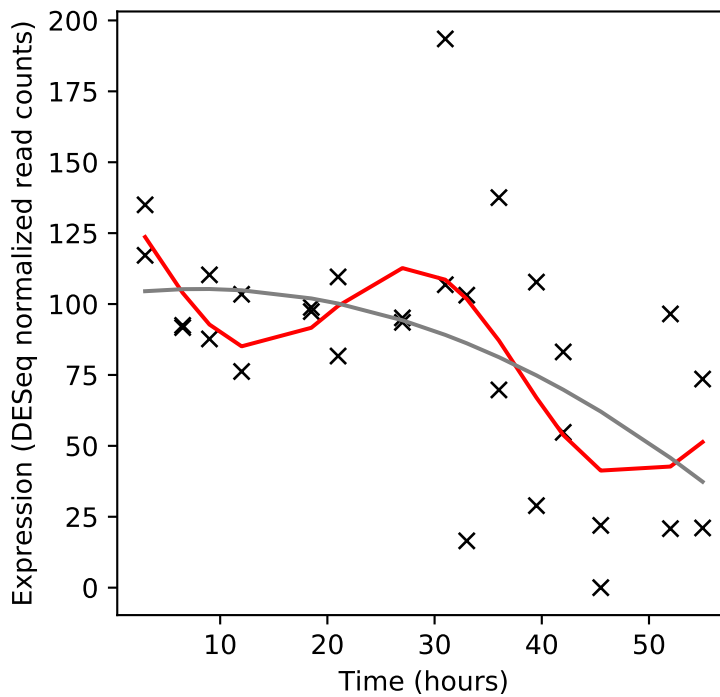
Rv2764c/thyA



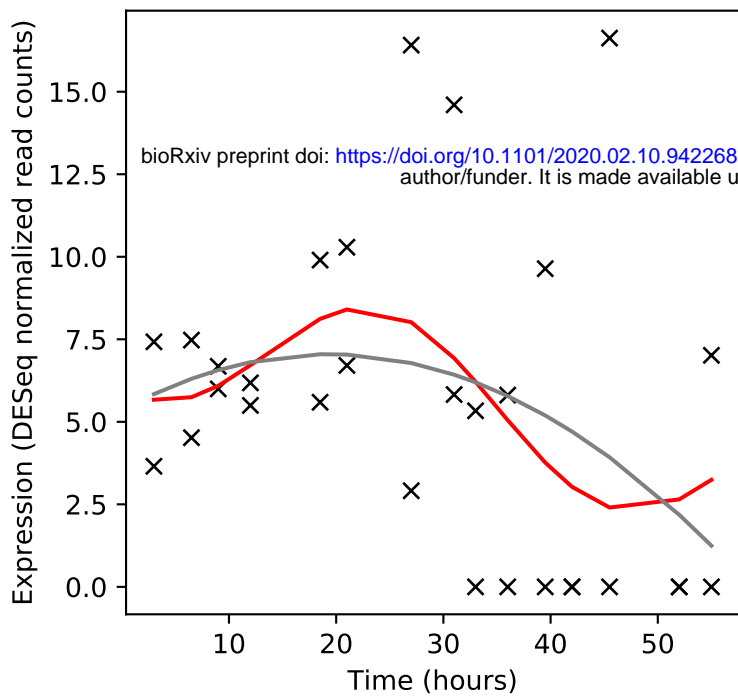
Rv2765c/-



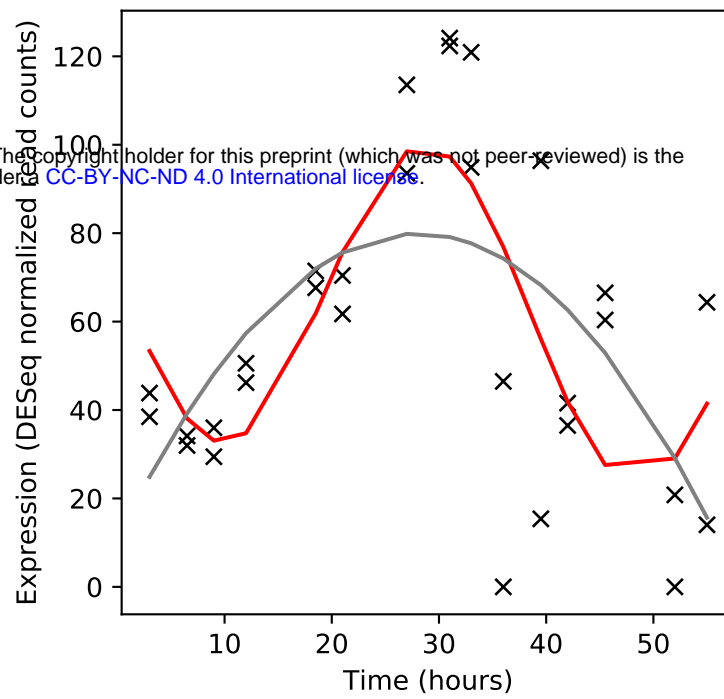
Rv2766c/-



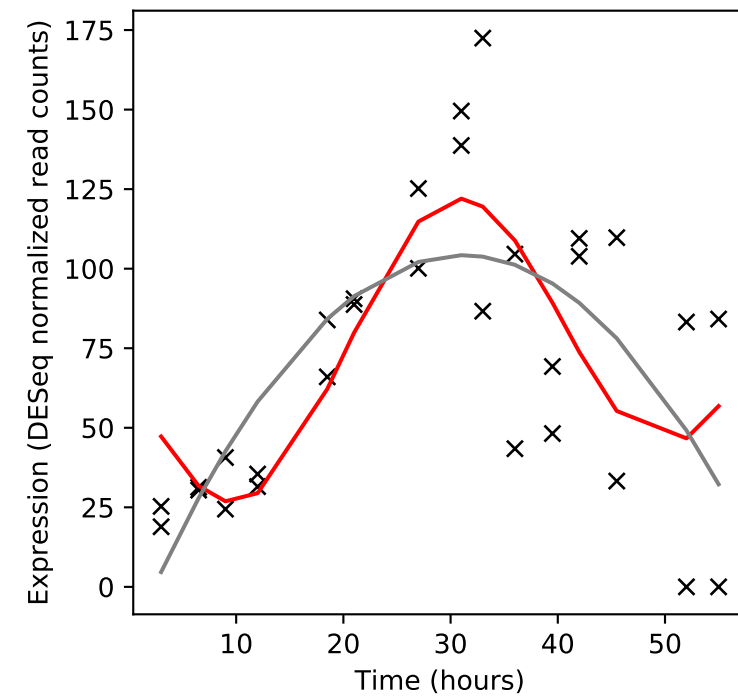
Rv2767c/-



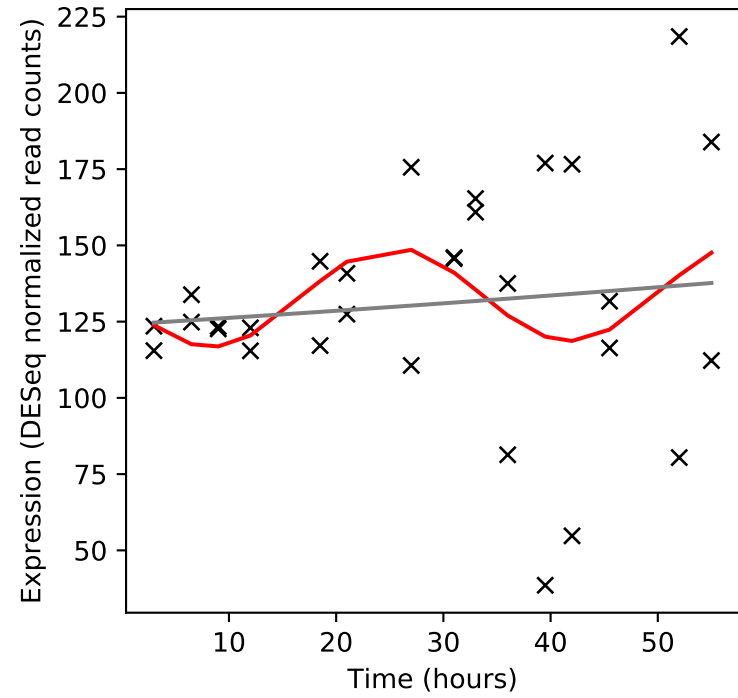
Rv2768c/PPE43



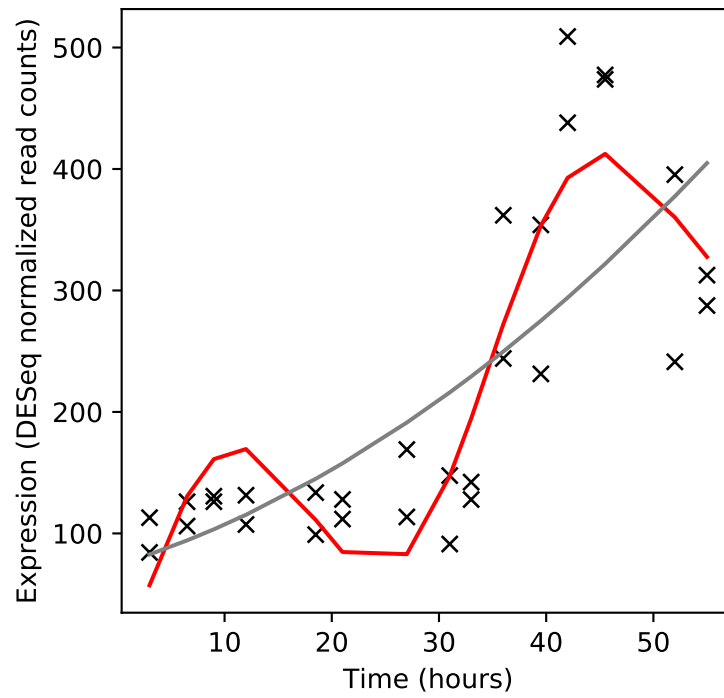
Rv2769c/PE27



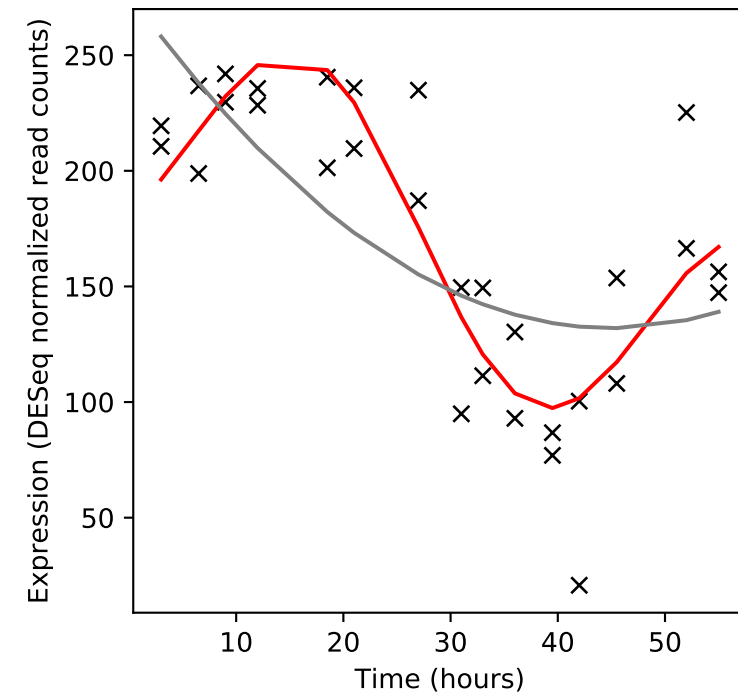
Rv2770c/PPE44



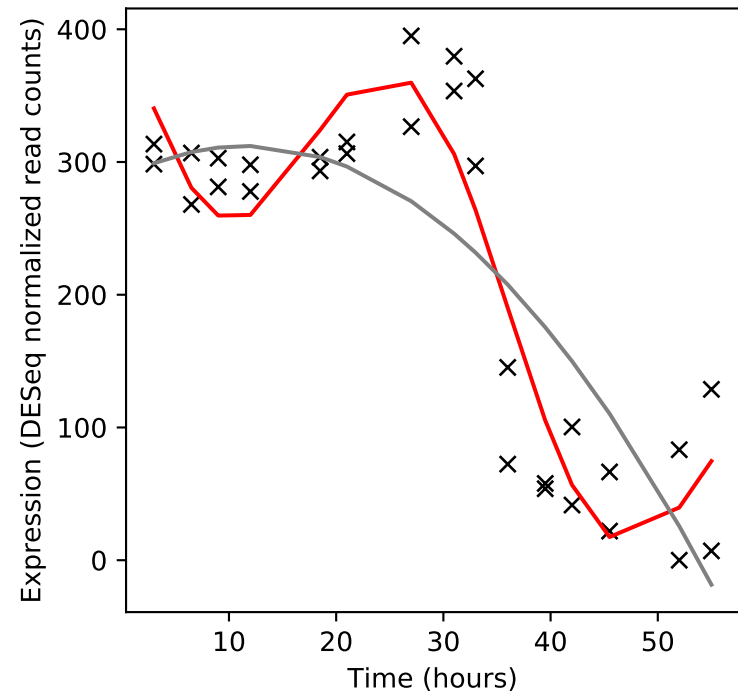
Rv2771c/-



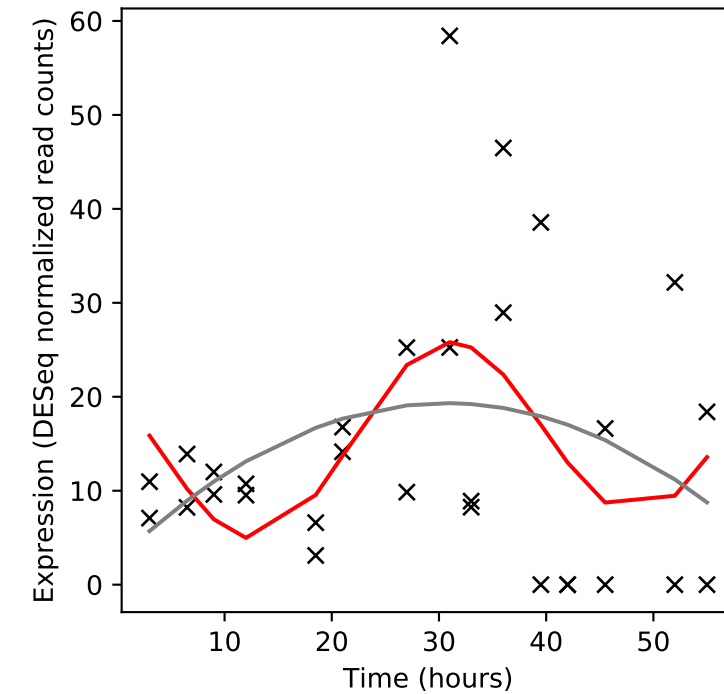
Rv2772c/-



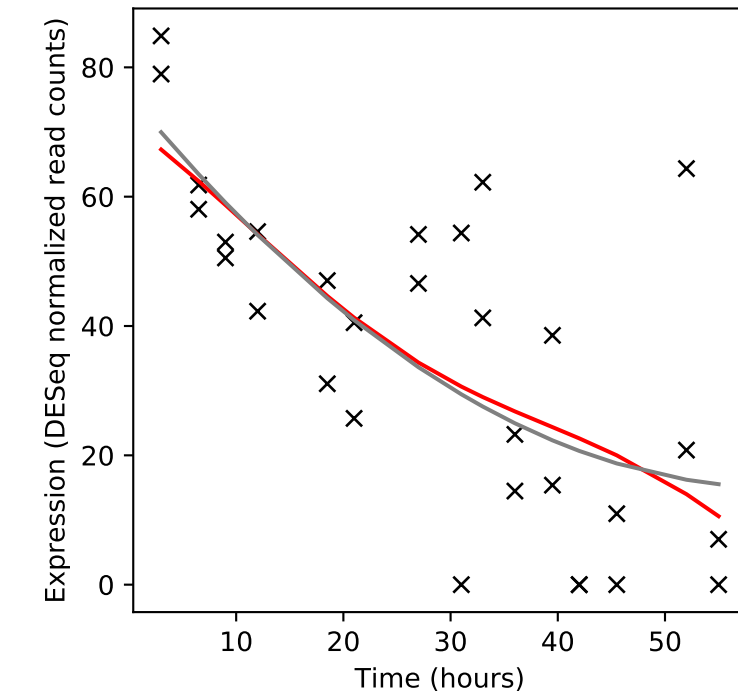
Rv2773c/dapB

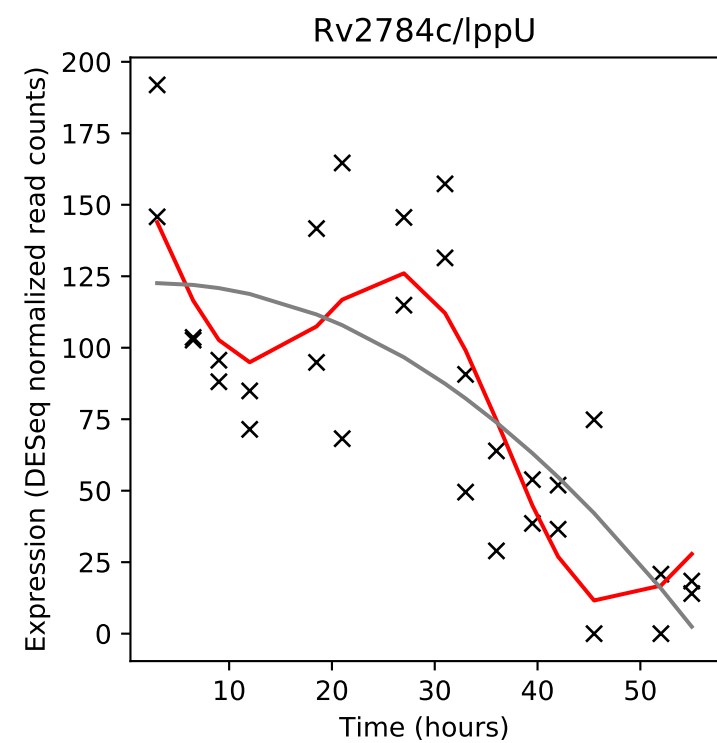
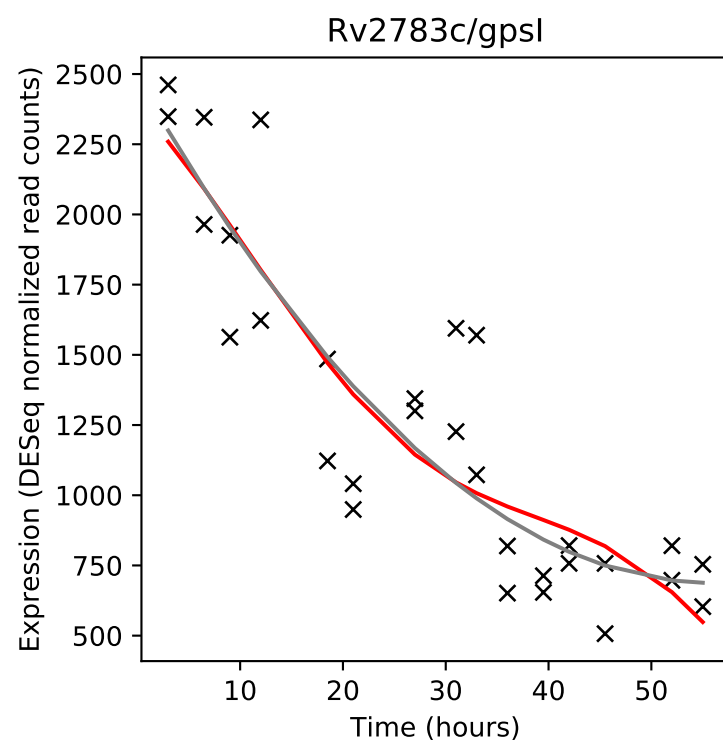
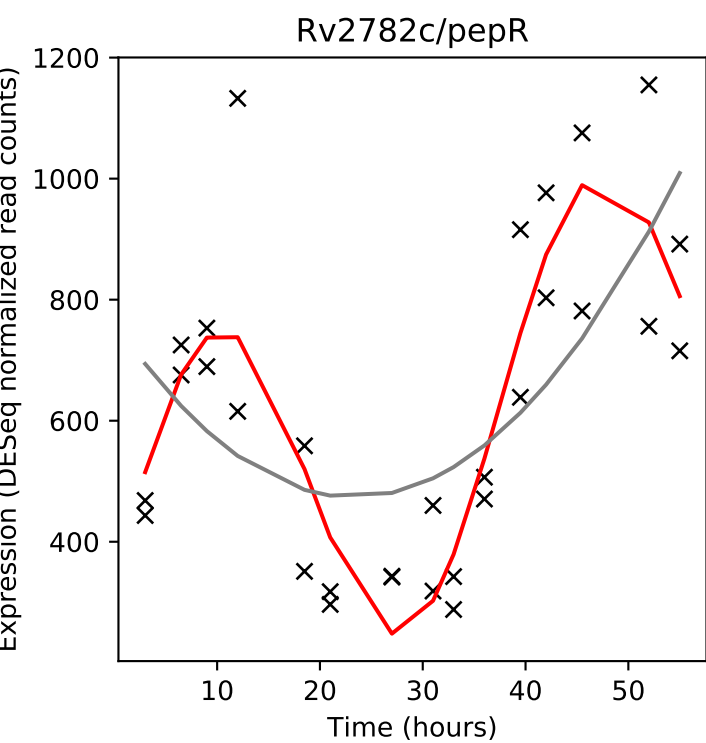
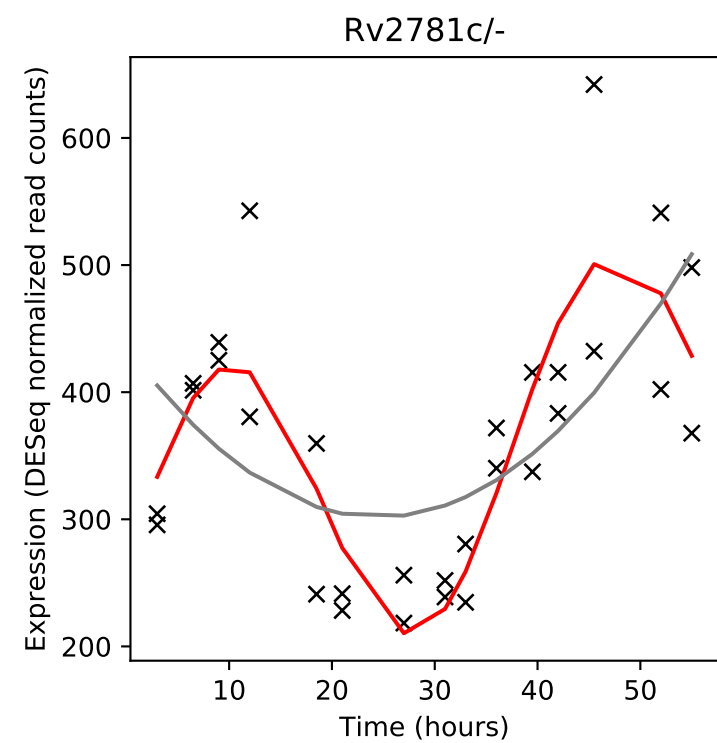
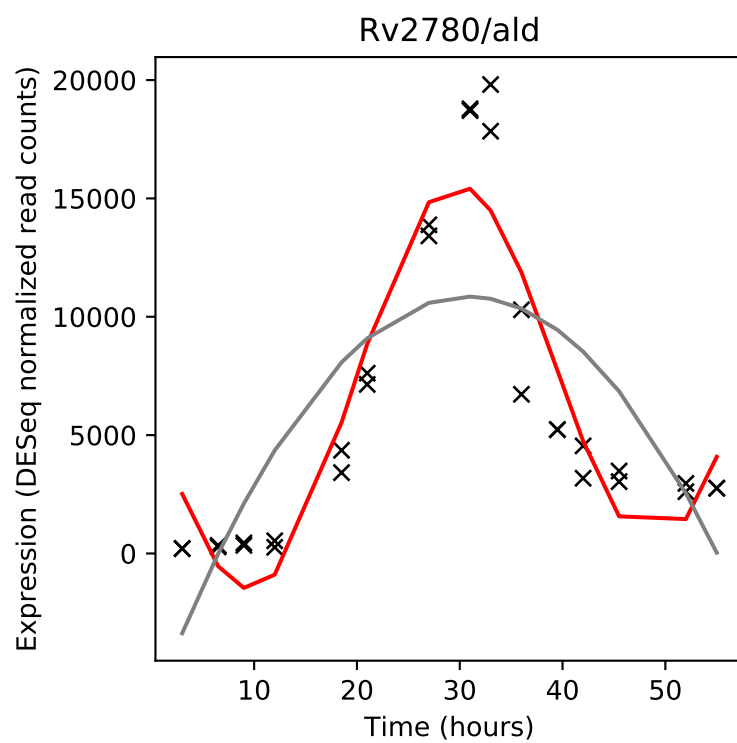
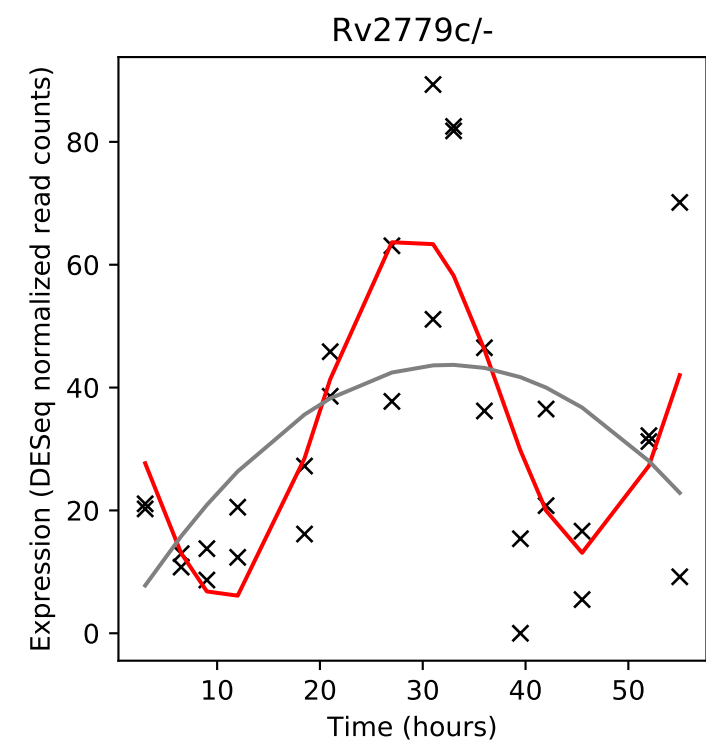
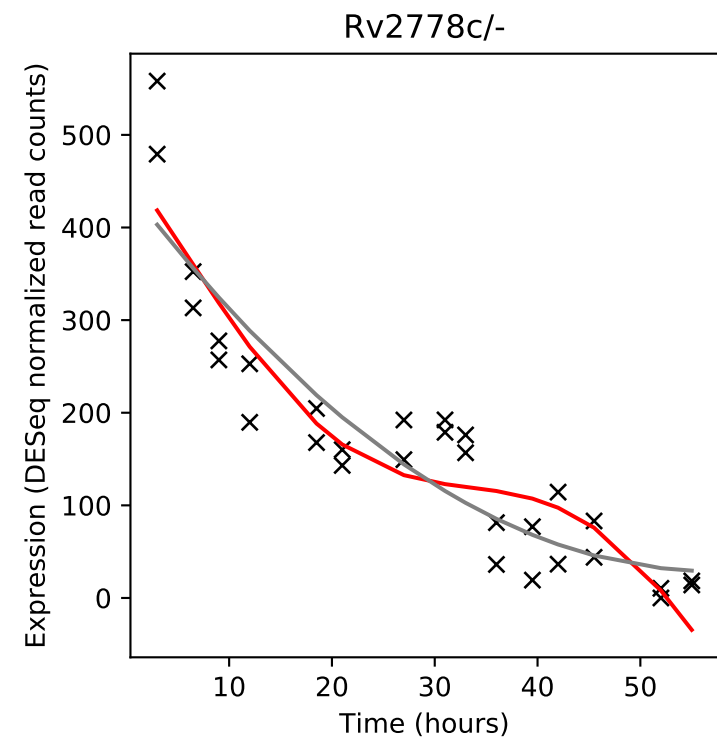
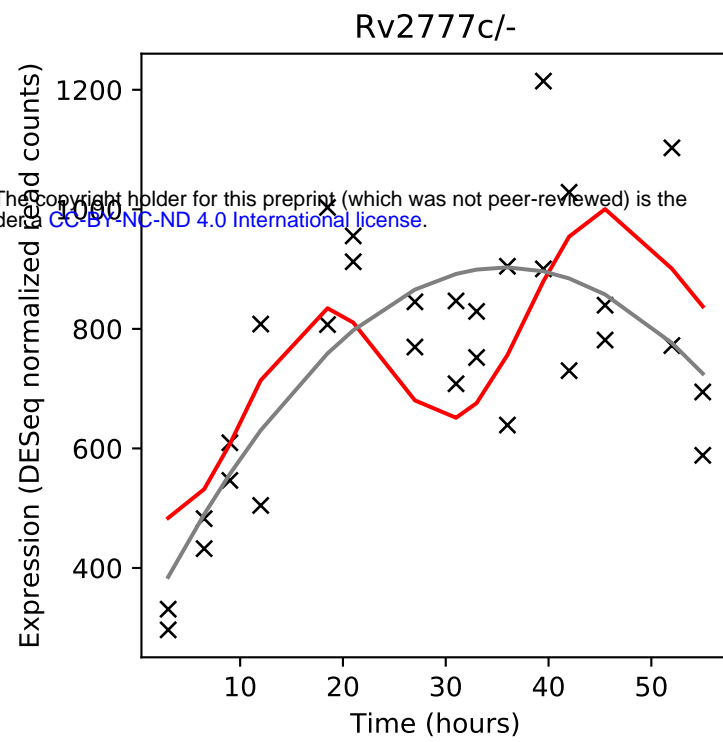
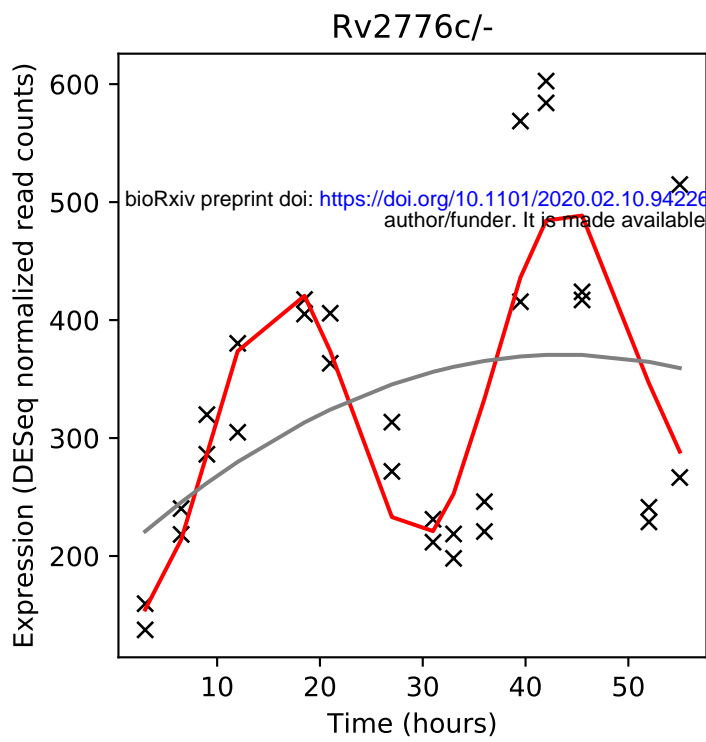


Rv2774c/-

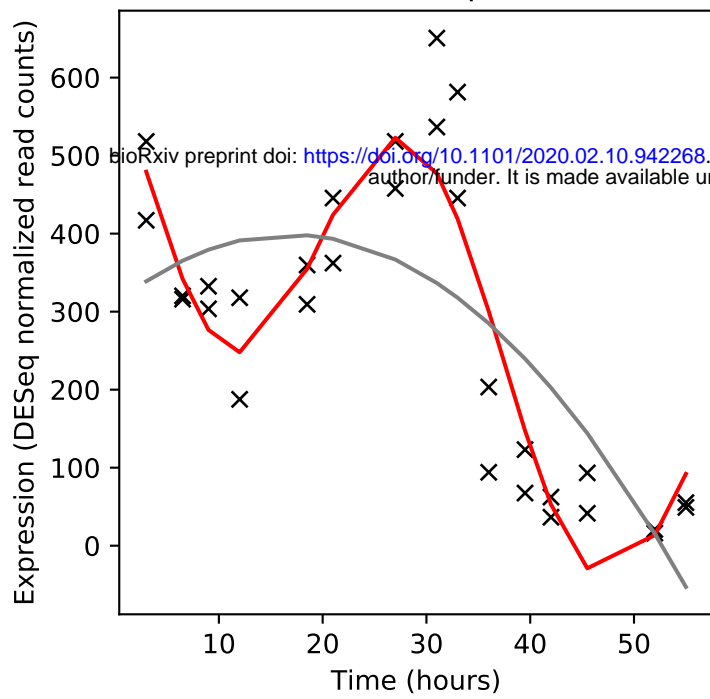


Rv2775c/-

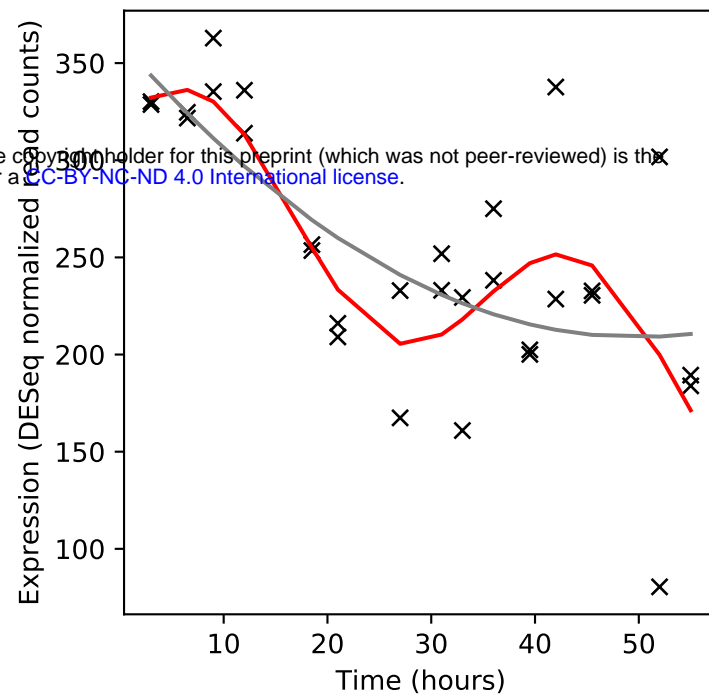




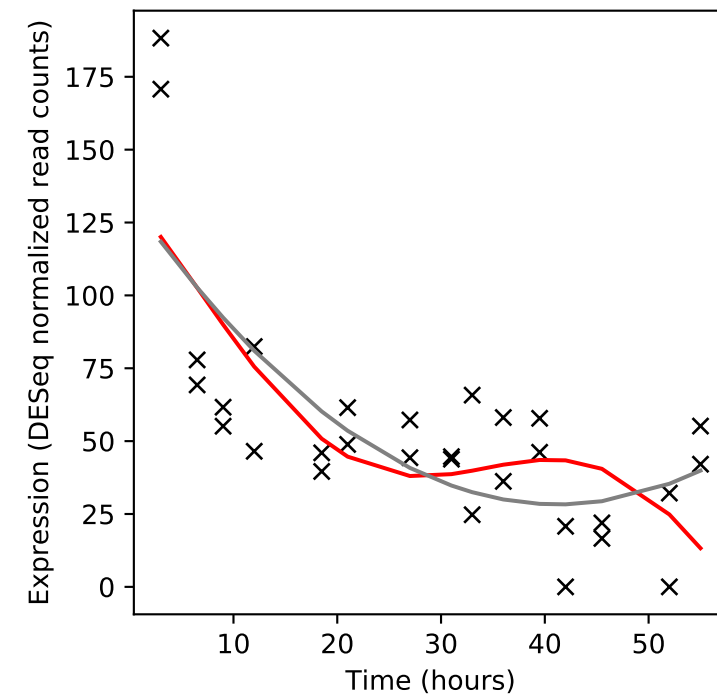
Rv2785c/rpsO



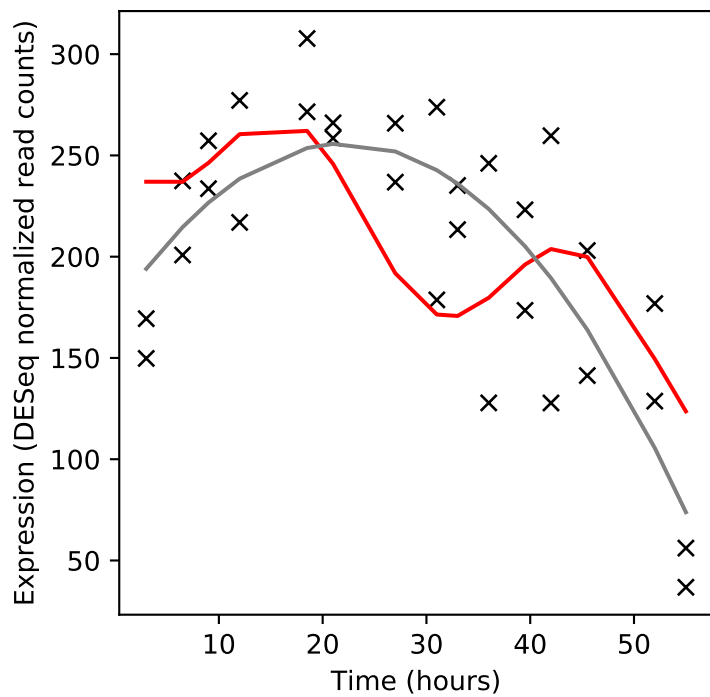
Rv2786c/ribF



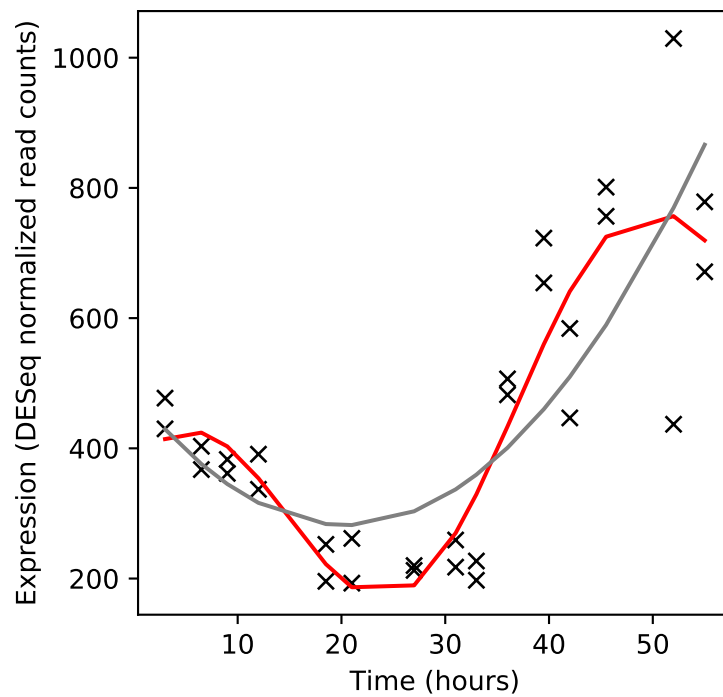
Rv2787c/-



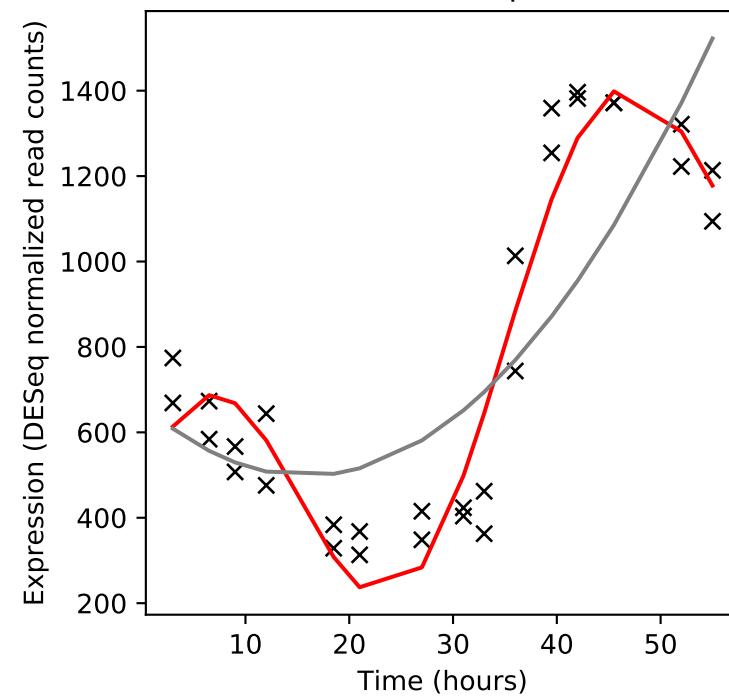
Rv2788c/sirR



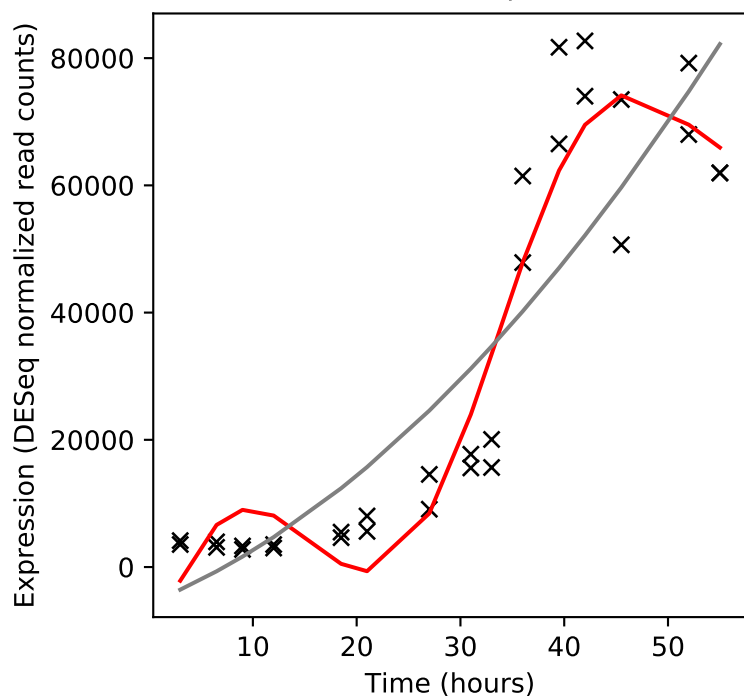
Rv2789c/fadE21



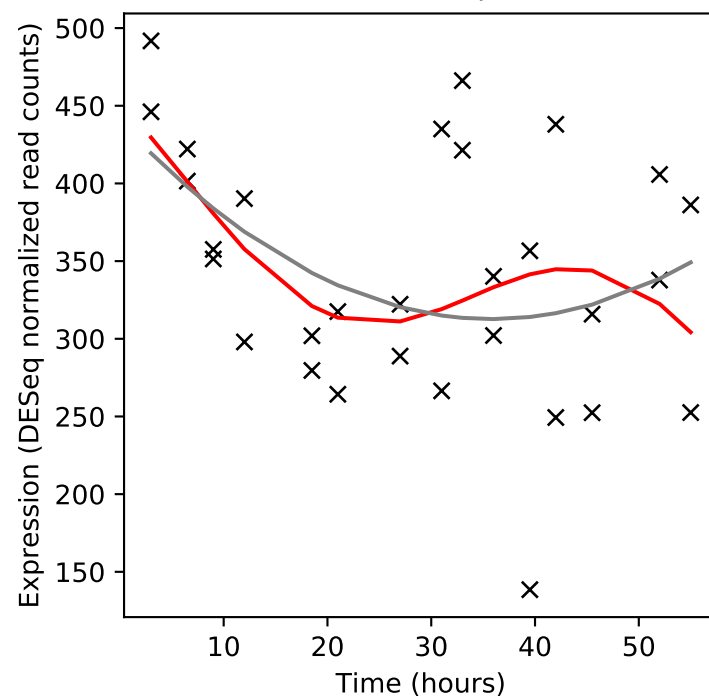
Rv2790c/ltp1



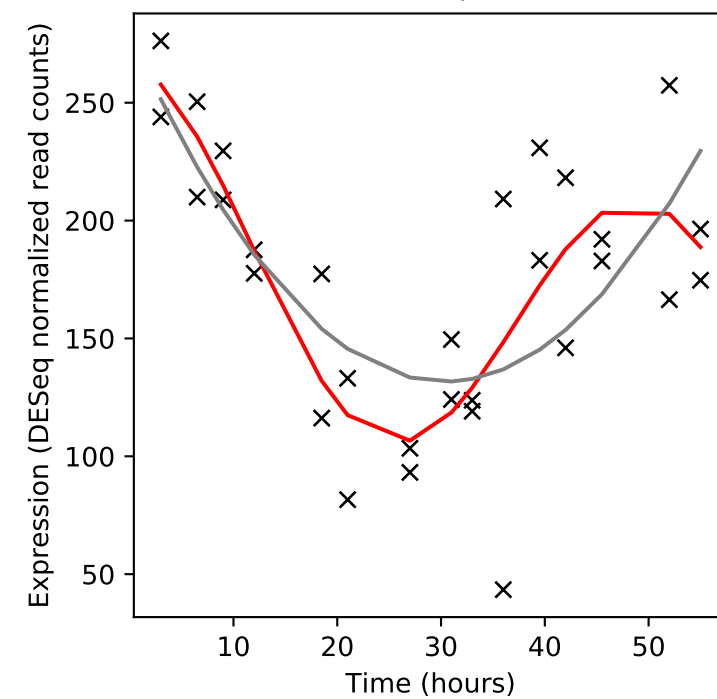
Rv2791c/-



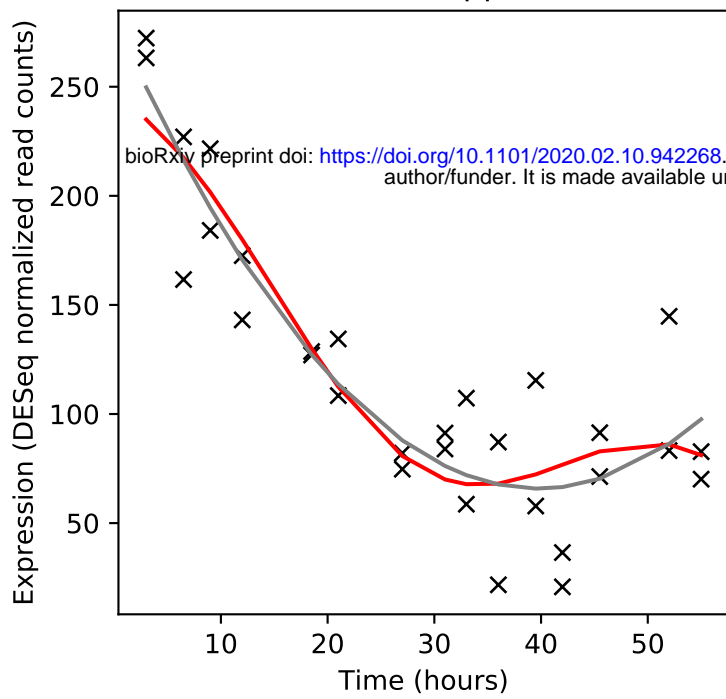
Rv2792c/-



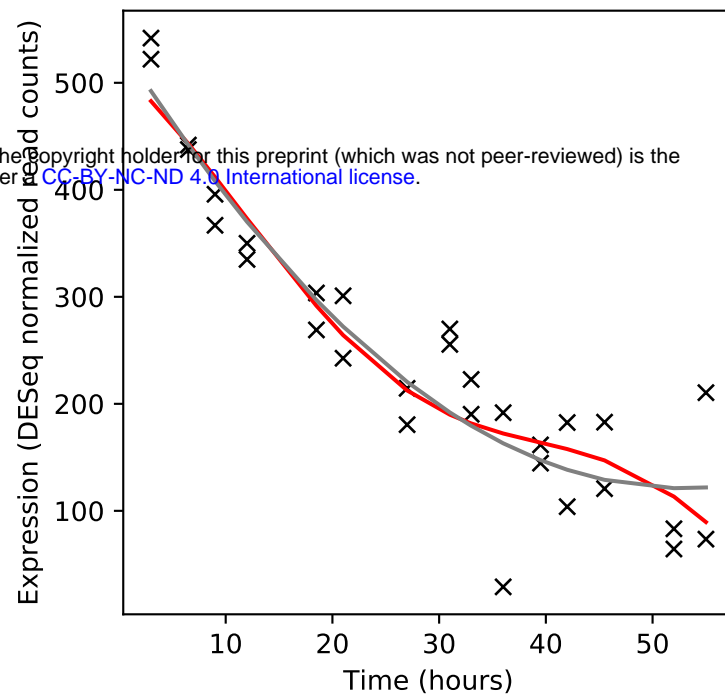
Rv2793c/truB



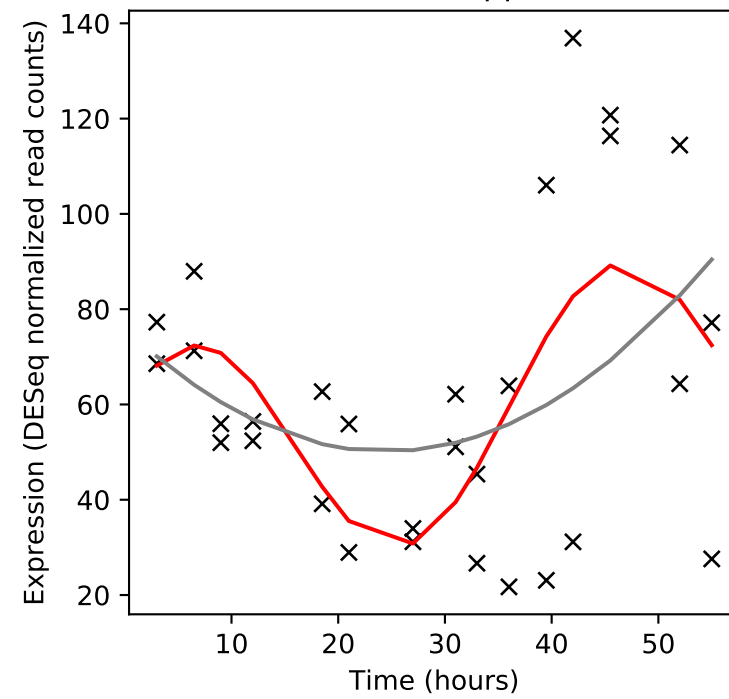
Rv2794c/pptT



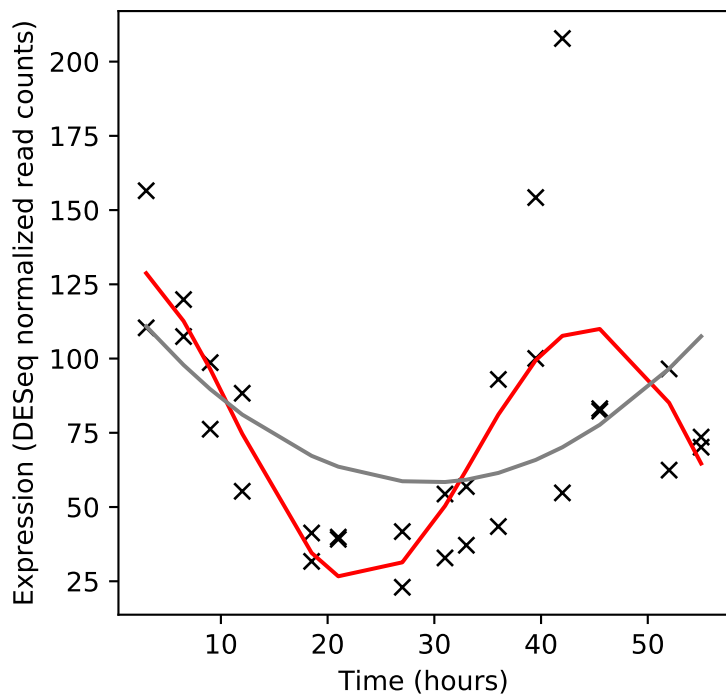
Rv2795c/-



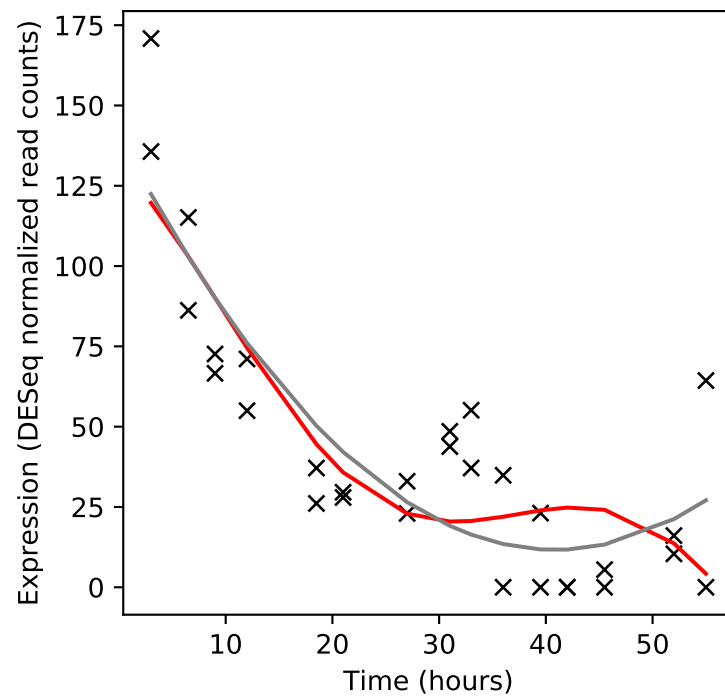
Rv2796c/lppV



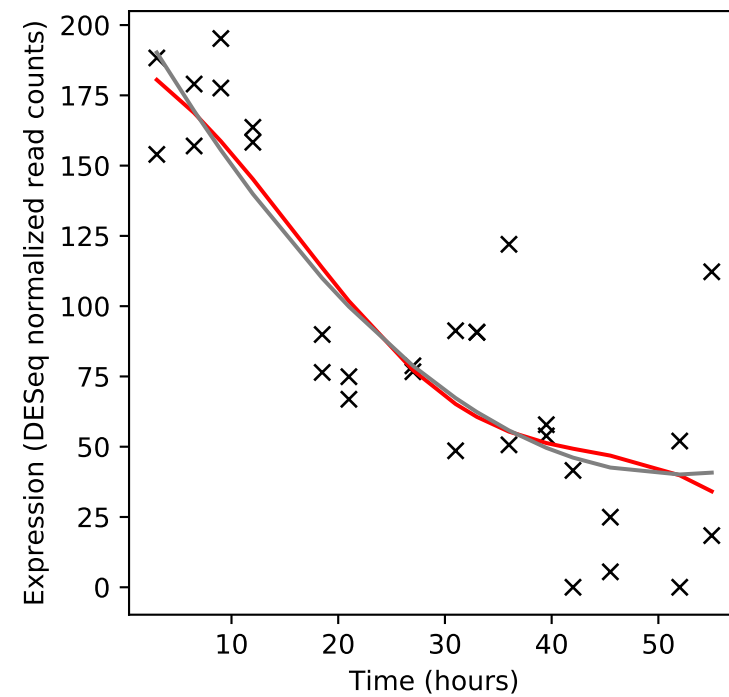
Rv2797c/-



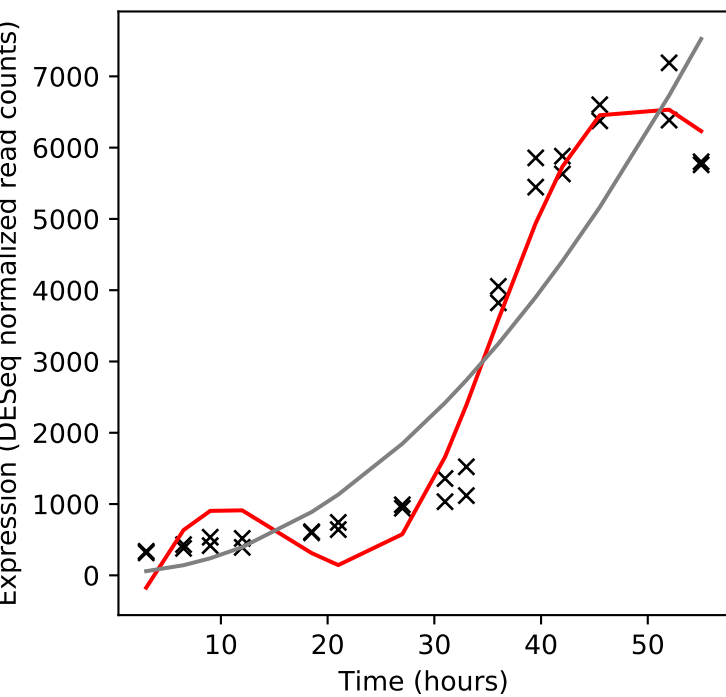
Rv2798c/-



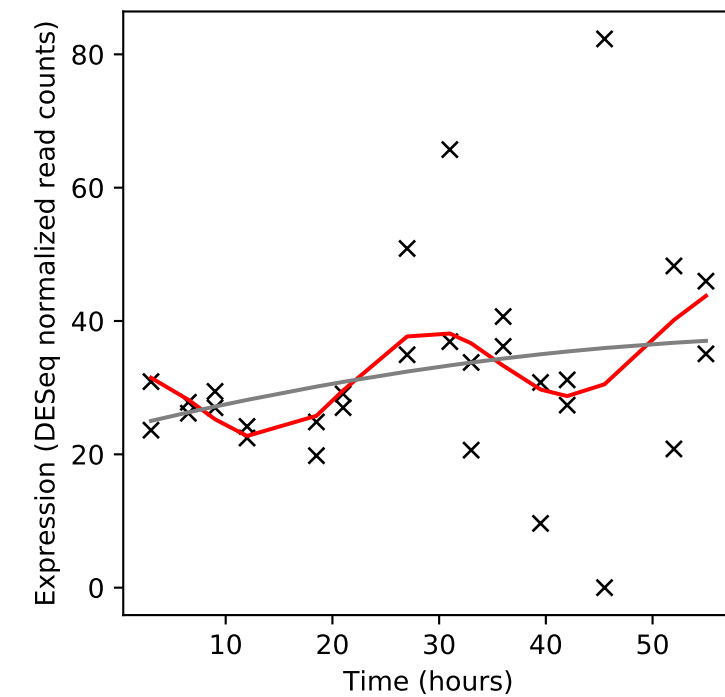
Rv2799/-



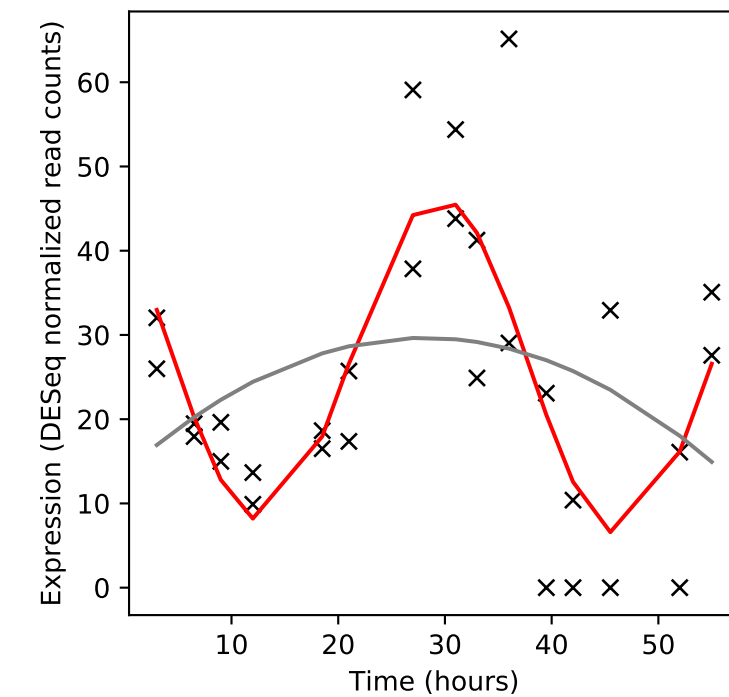
Rv2800/-



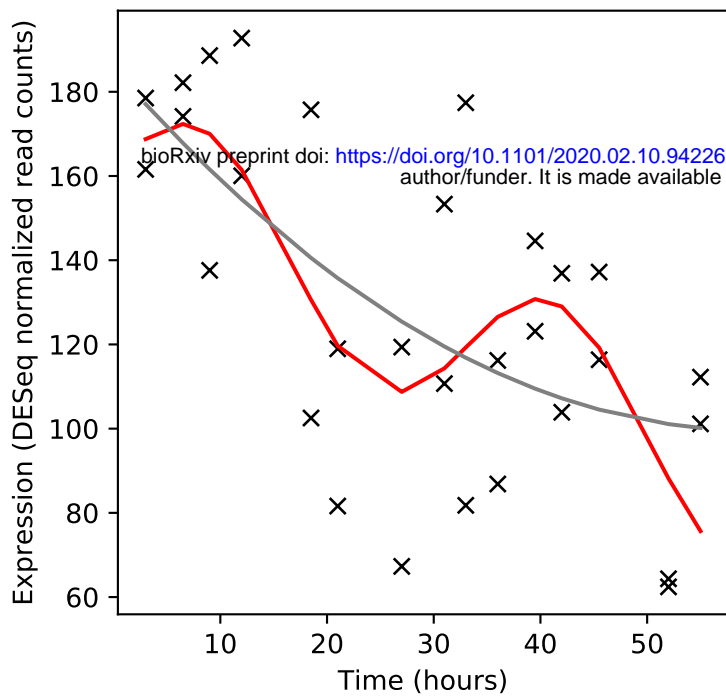
Rv2801c/mazF9



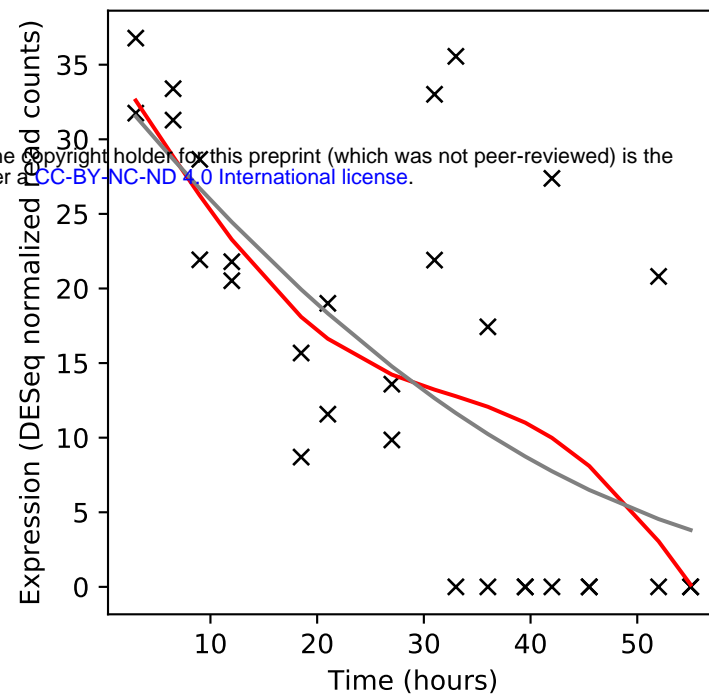
Rv2801A/mazE9



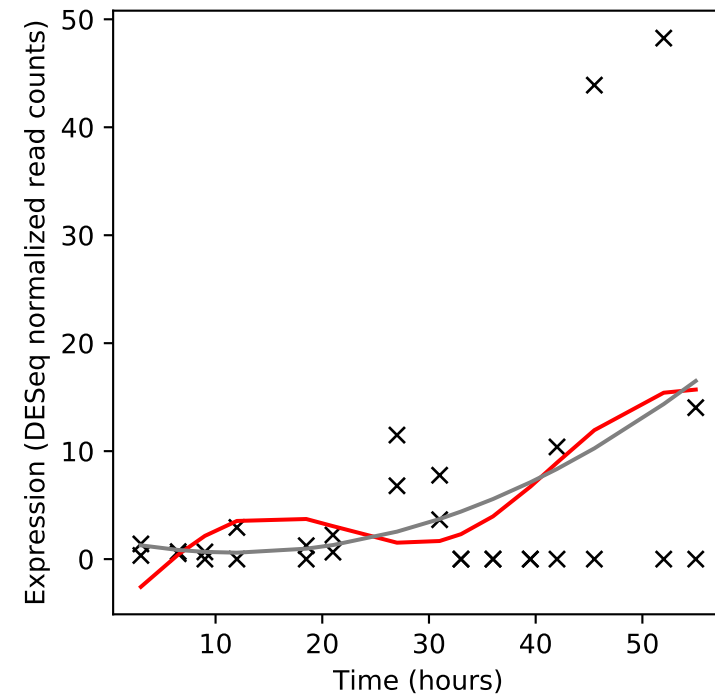
Rv2802c/-



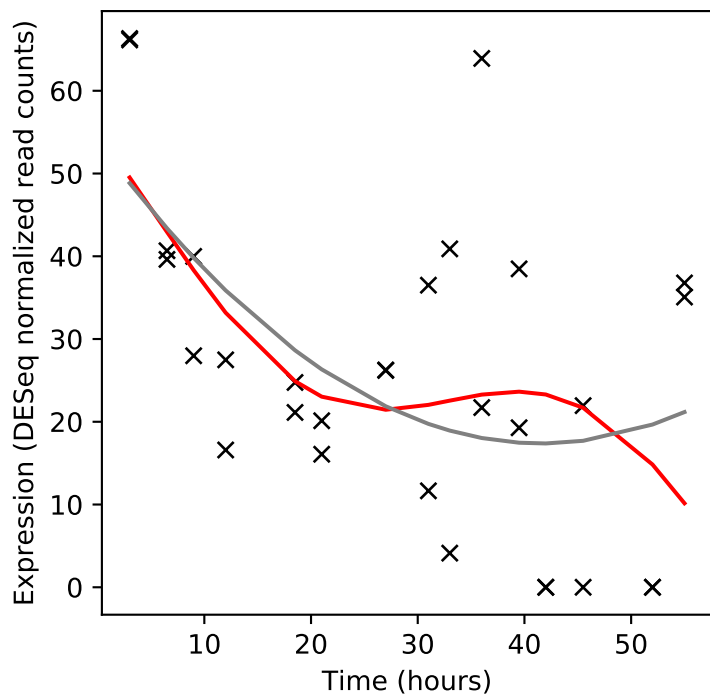
Rv2803/-



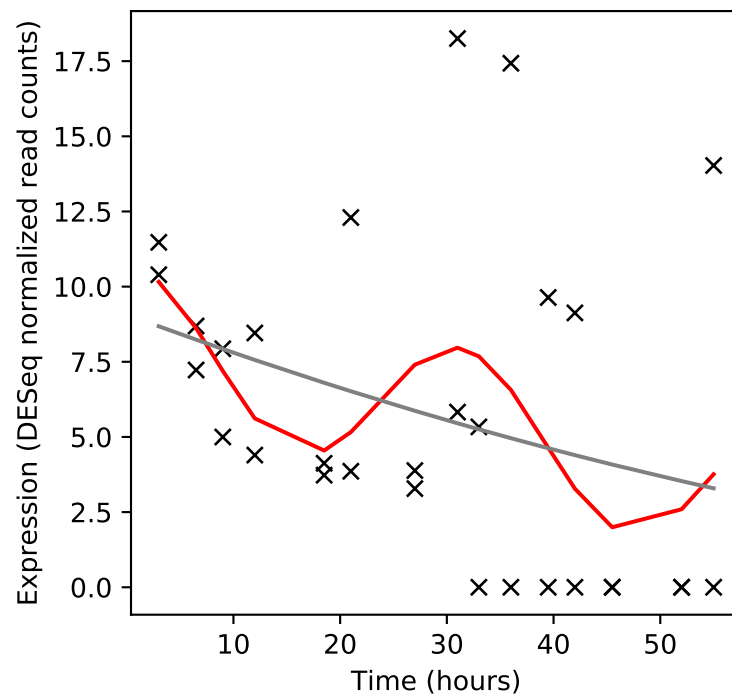
Rv2804c/-



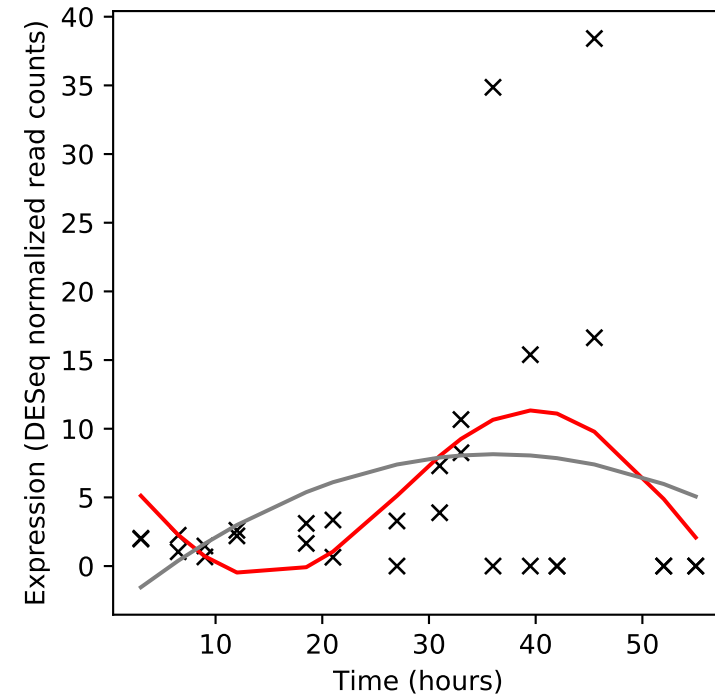
Rv2805/-



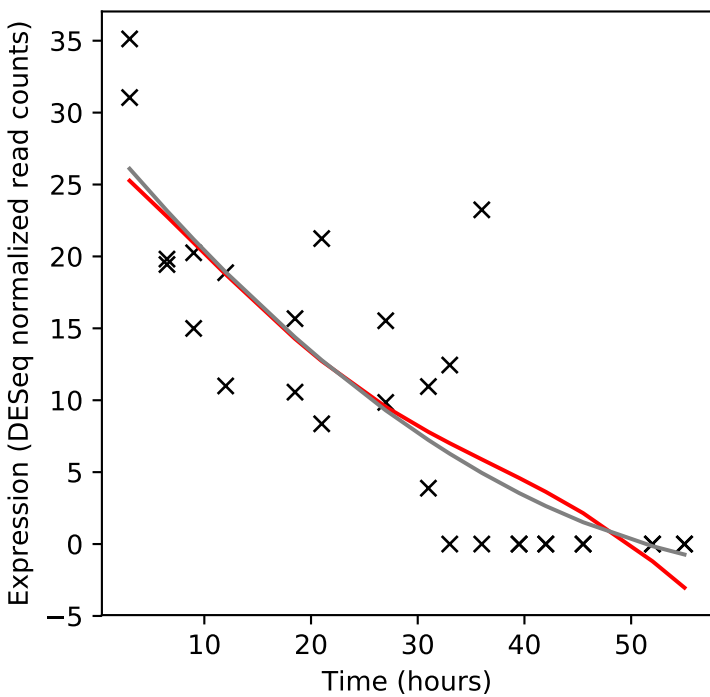
Rv2806/-



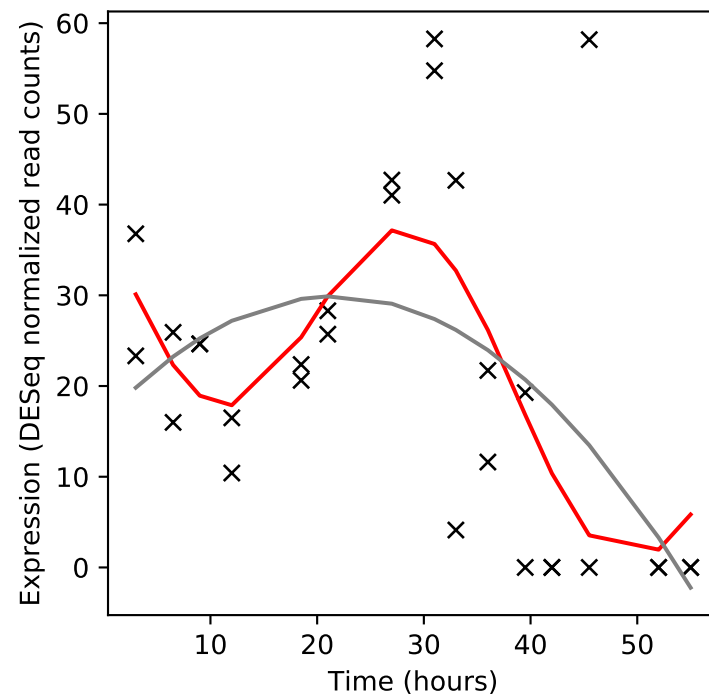
Rv2807/-



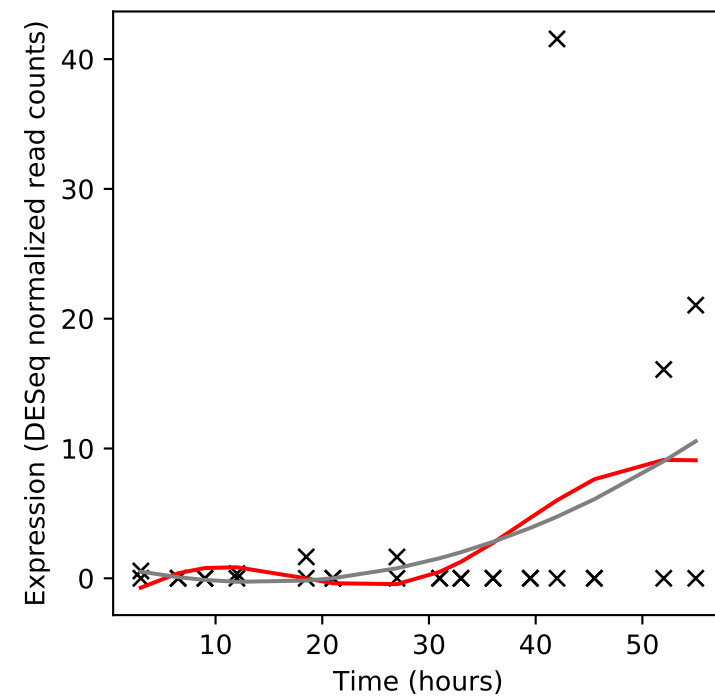
Rv2808/-



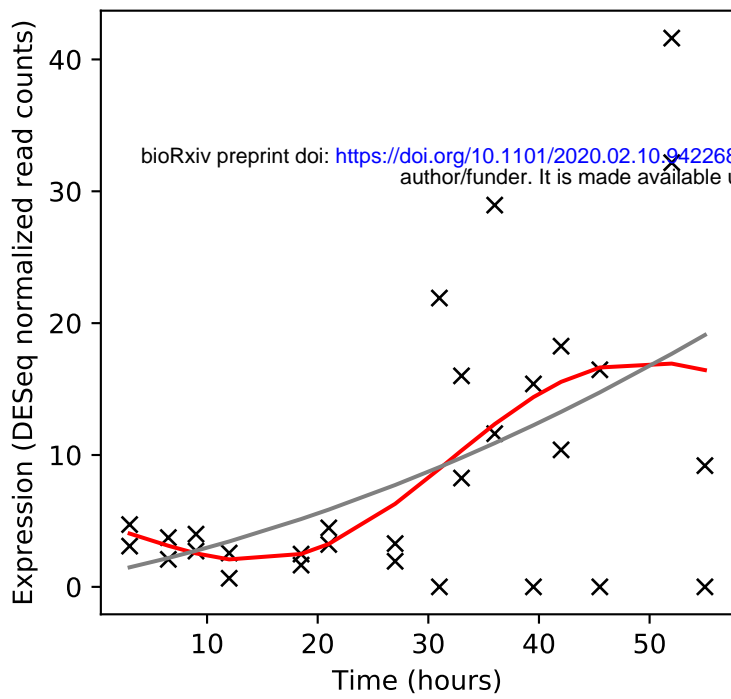
Rv2809/-



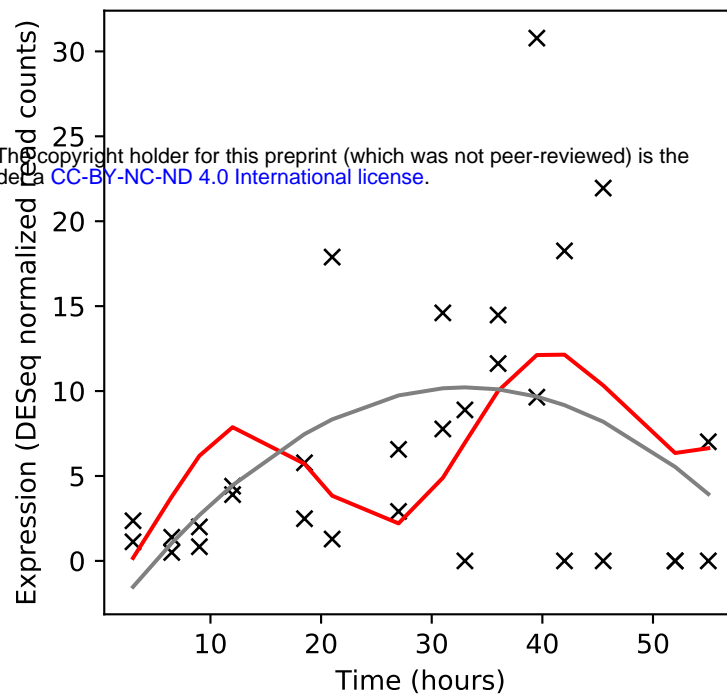
Rv2810c/-



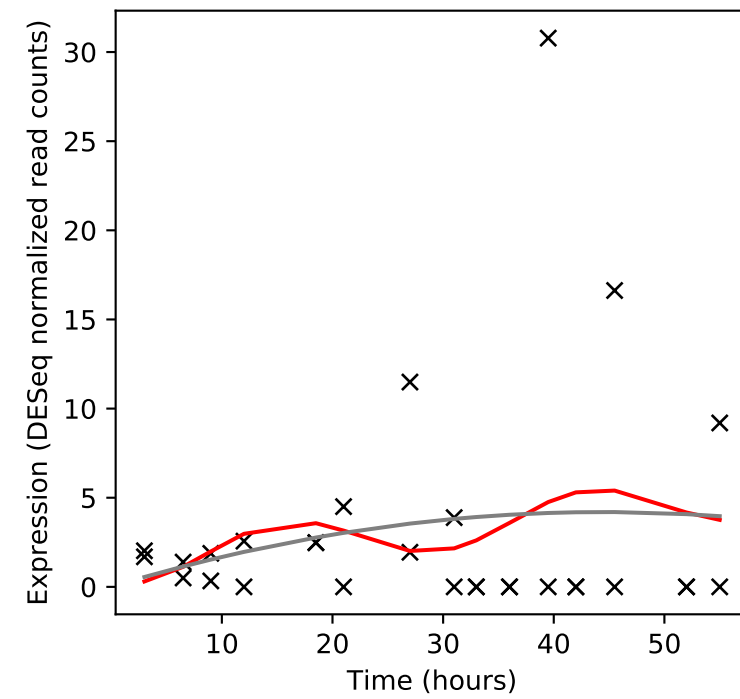
Rv2811/-



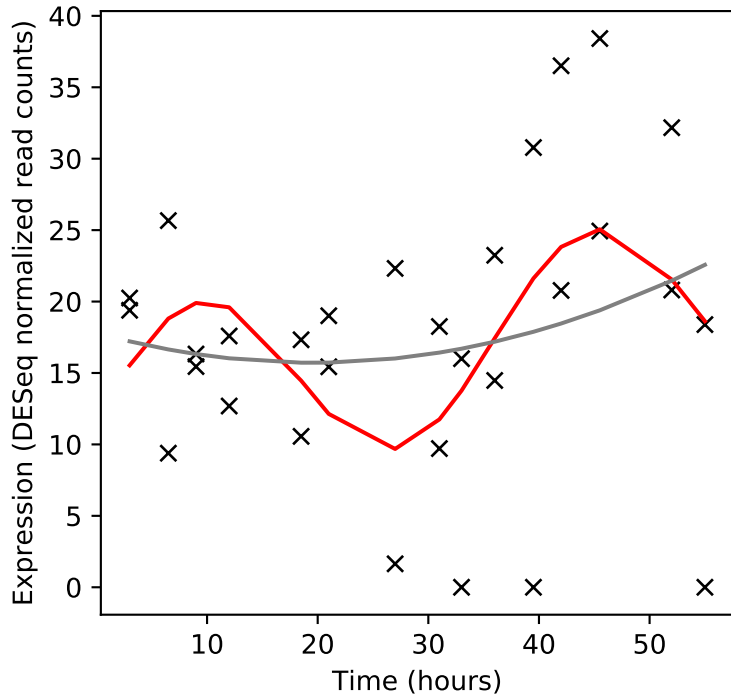
Rv2812/-



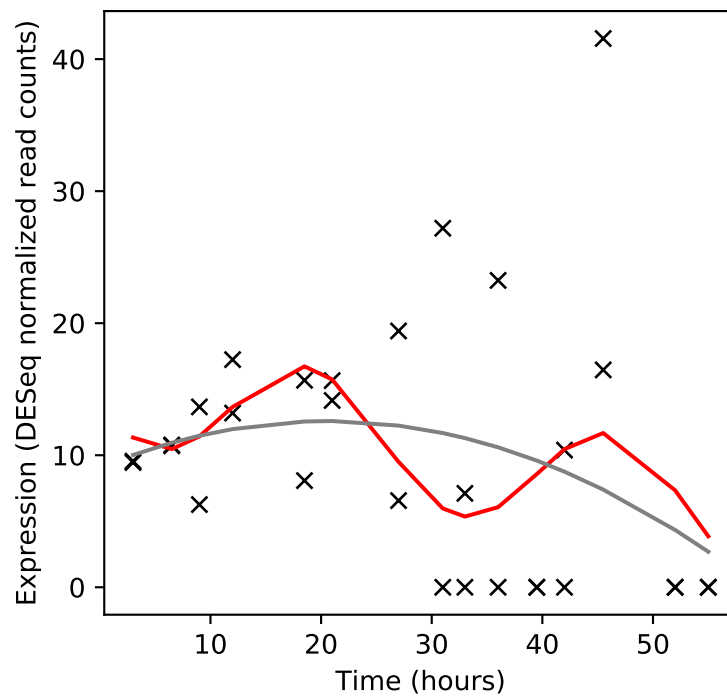
Rv2813/-



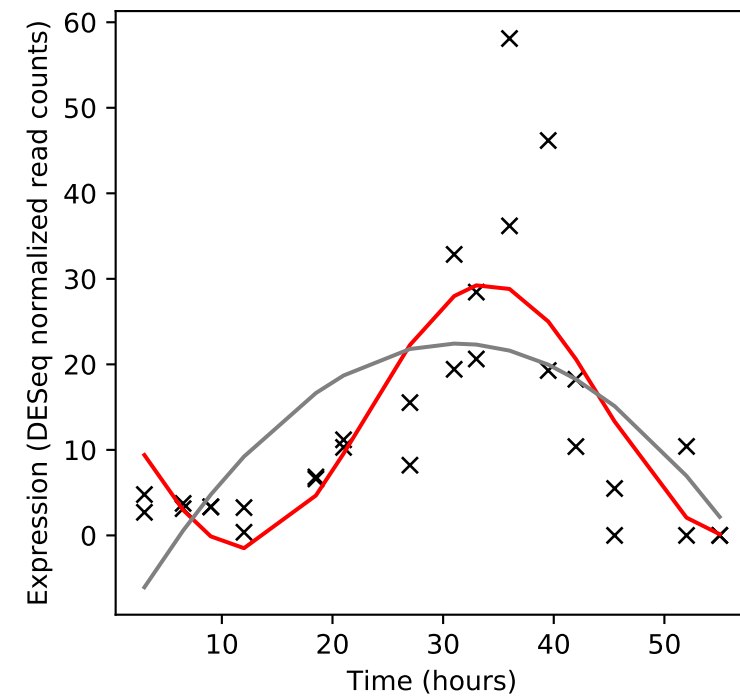
Rv2814c/-



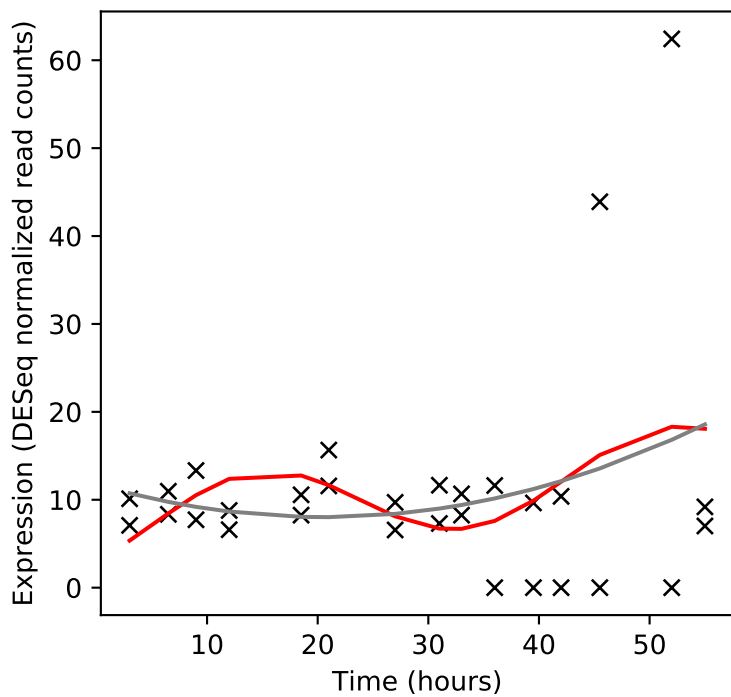
Rv2815c/-



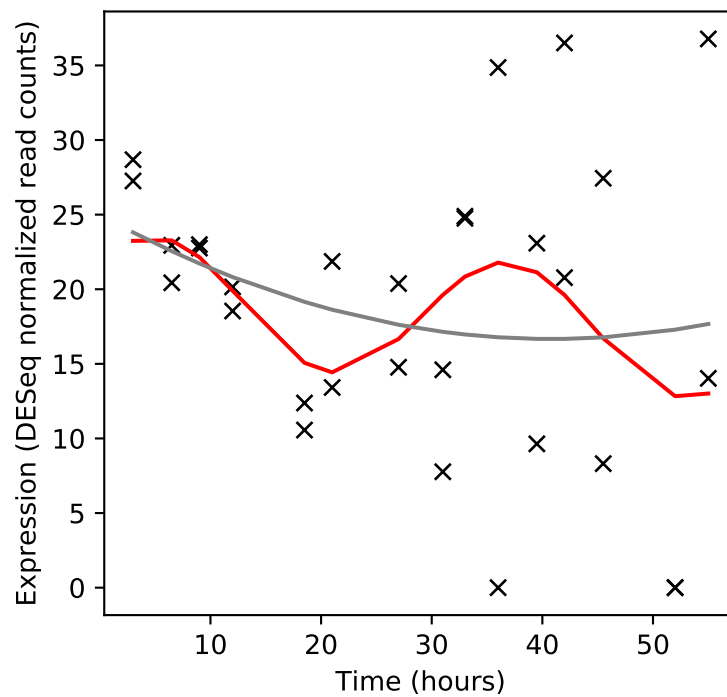
Rv2816c/-



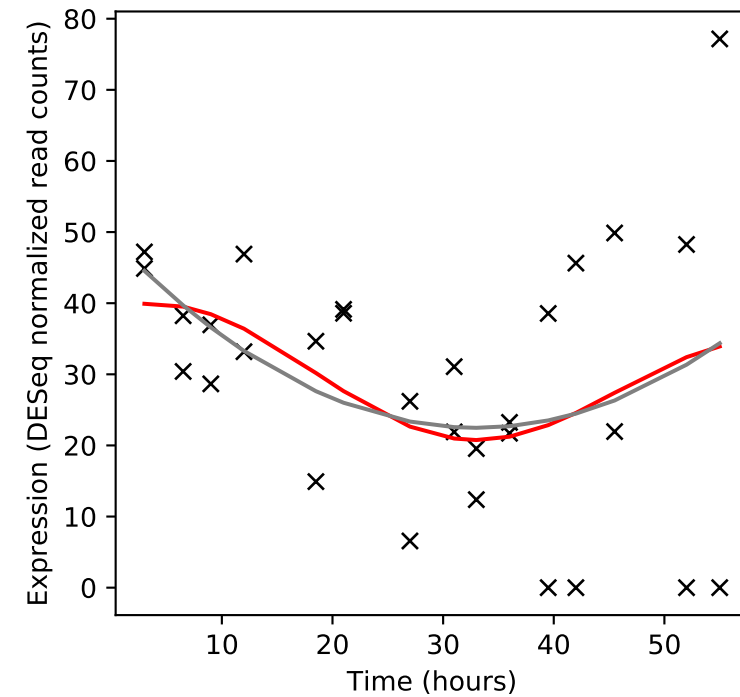
Rv2817c/-



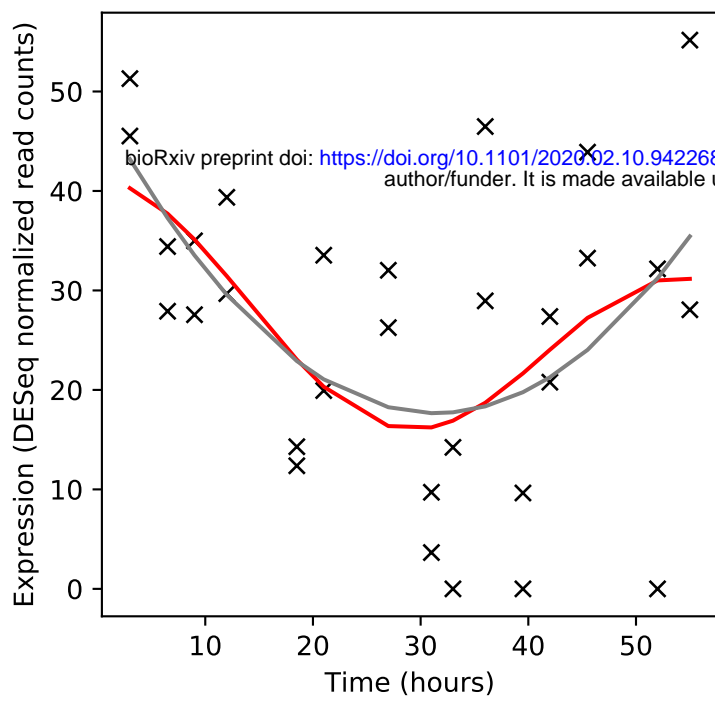
Rv2818c/-



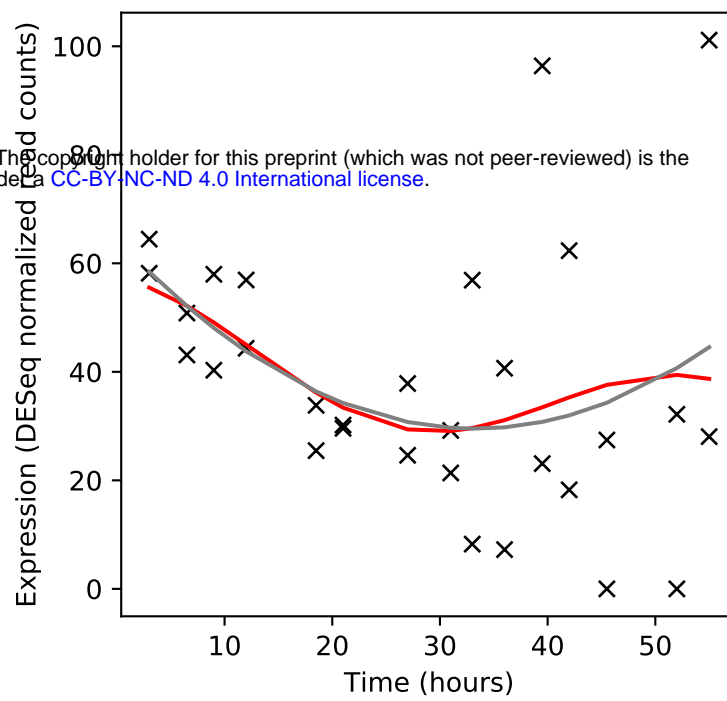
Rv2819c/-



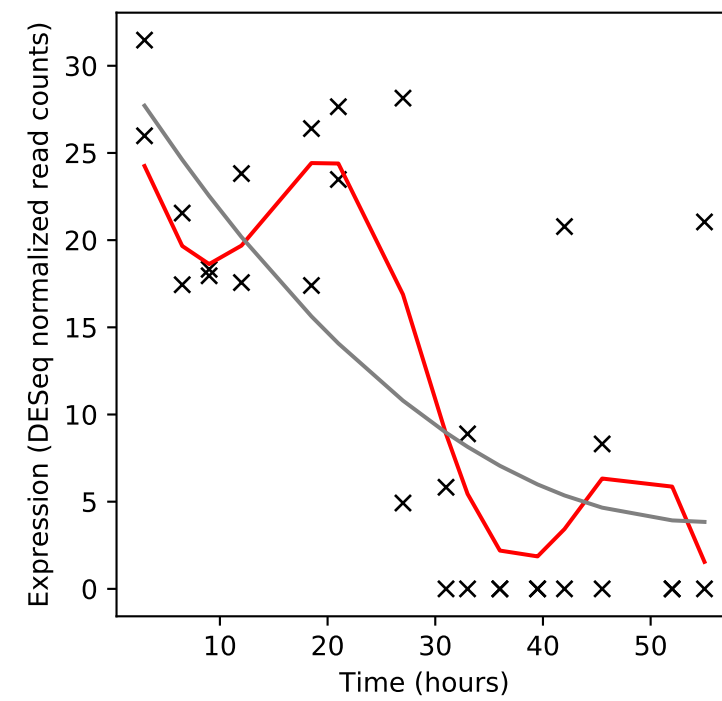
Rv2820c/-



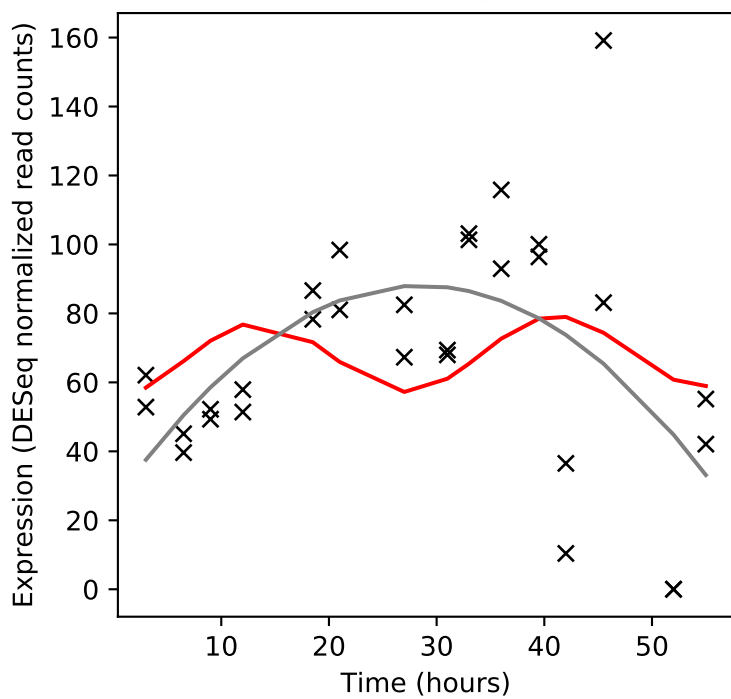
Rv2821c/-



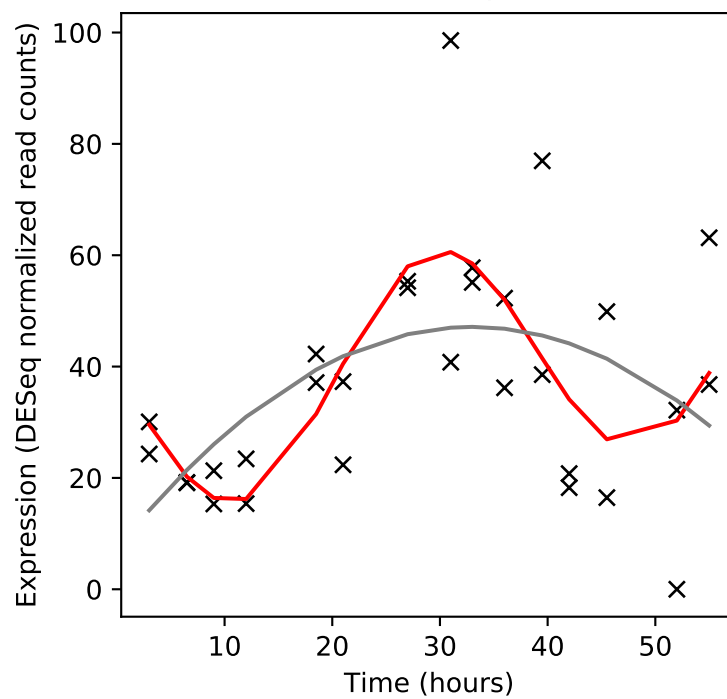
Rv2822c/-



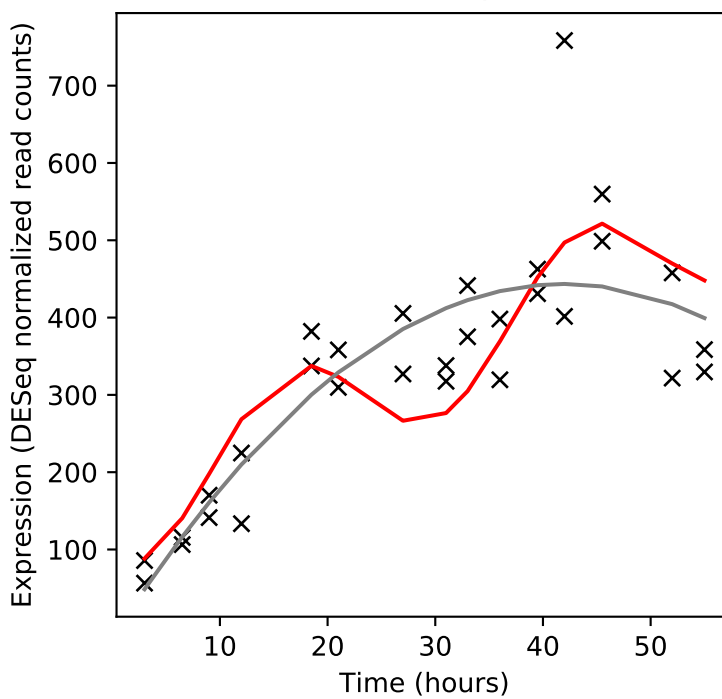
Rv2823c/-



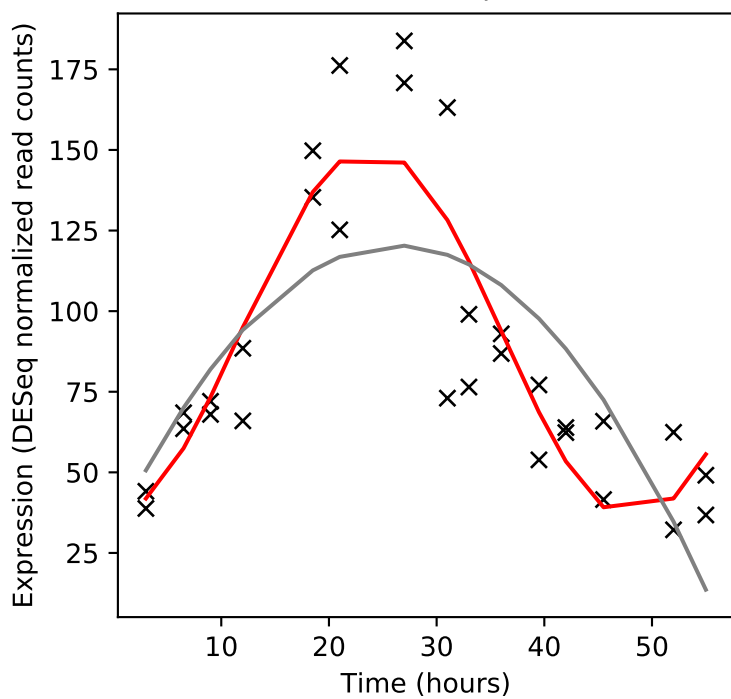
Rv2824c/-



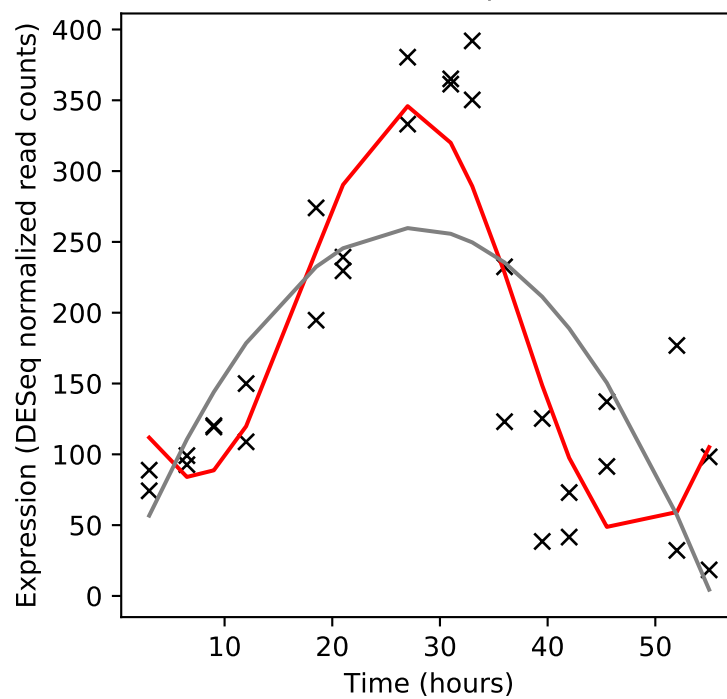
Rv2825c/-



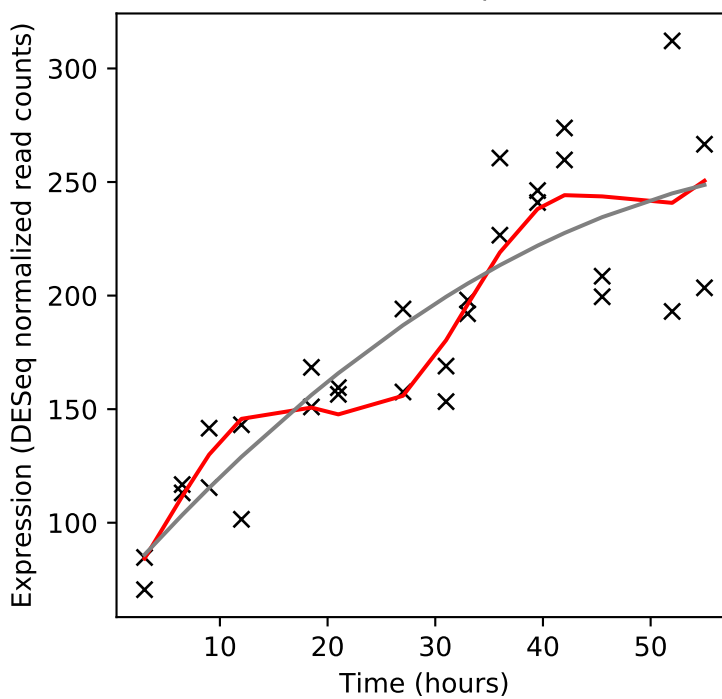
Rv2826c/-



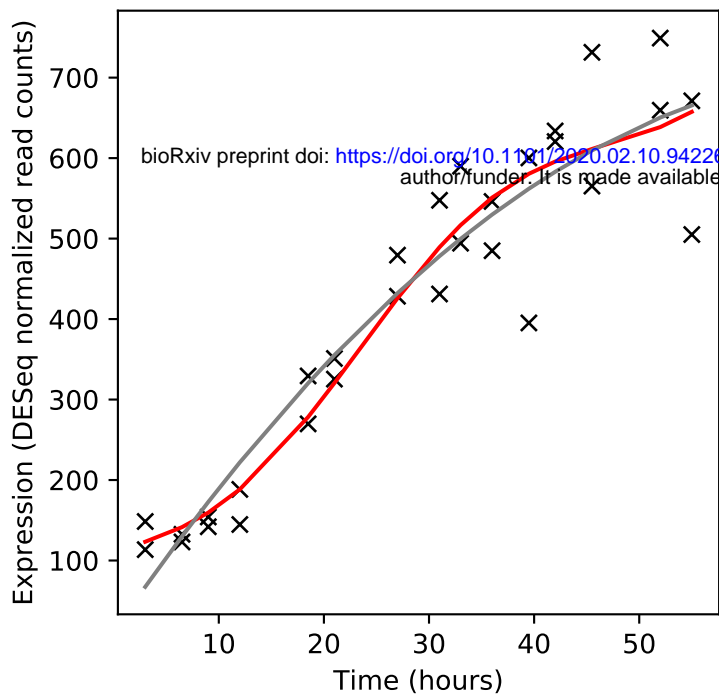
Rv2827c/-



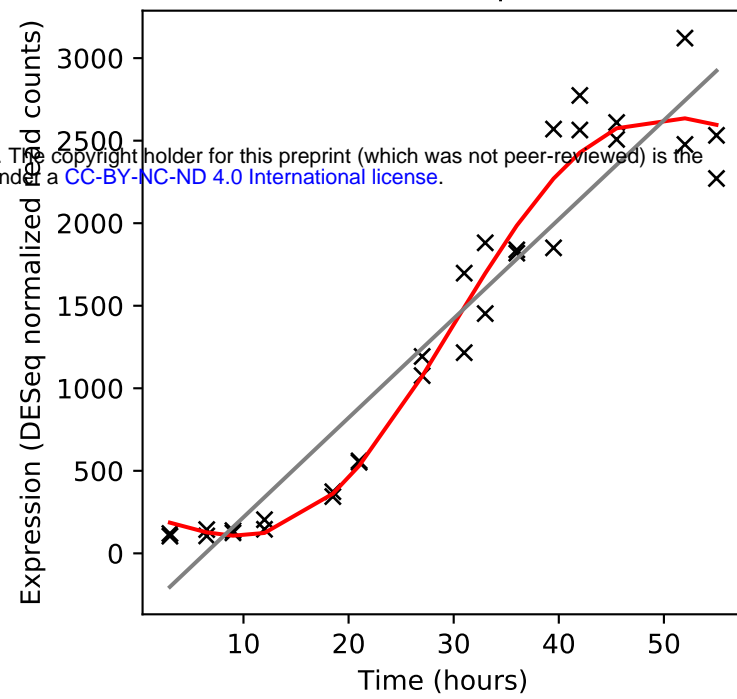
Rv2828c/-



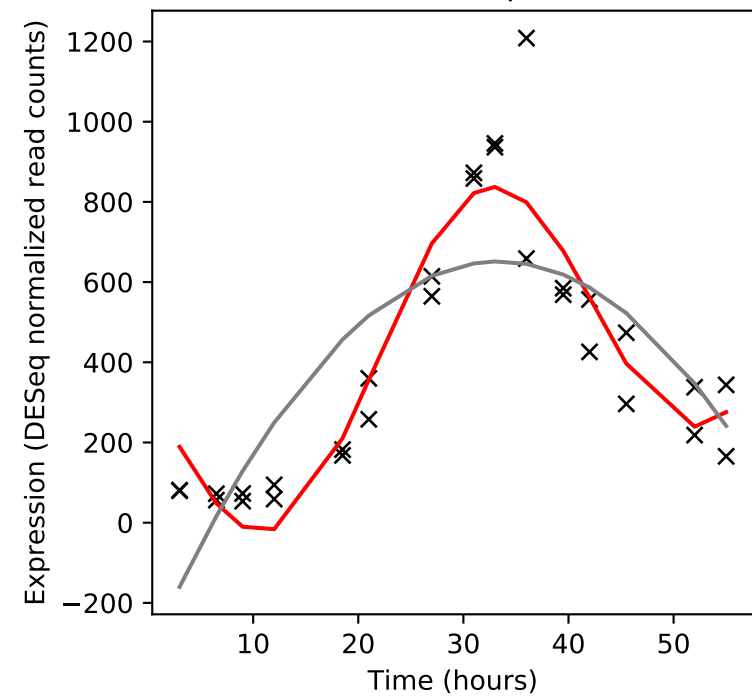
Rv2828A/-



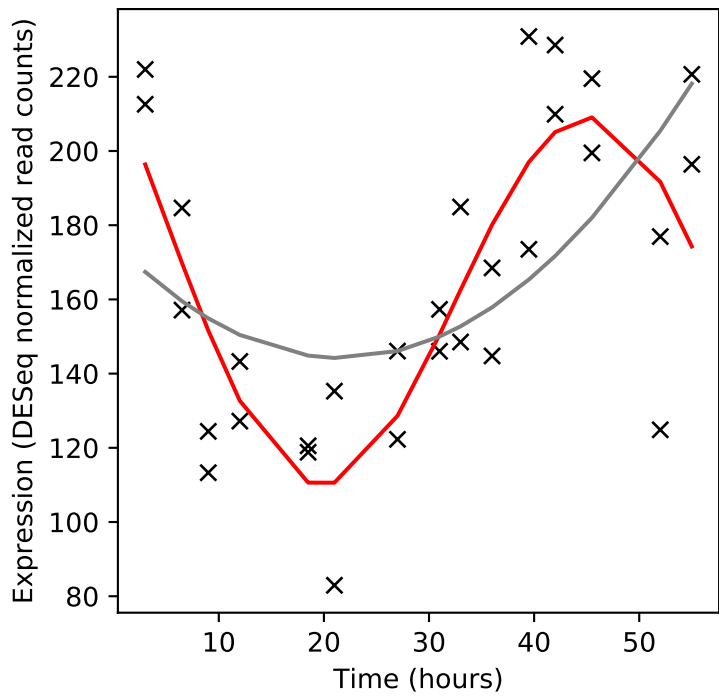
Rv2829c/vapC22



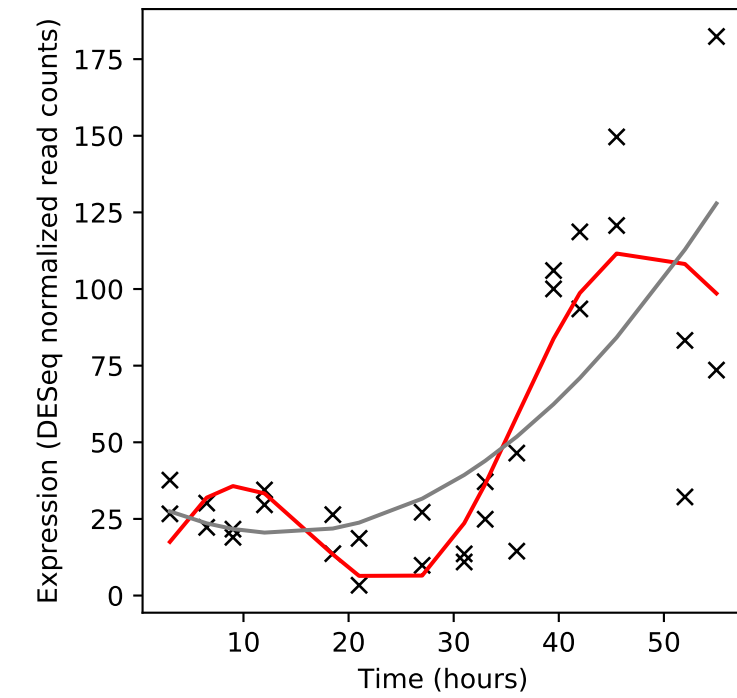
Rv2830c/vapB22



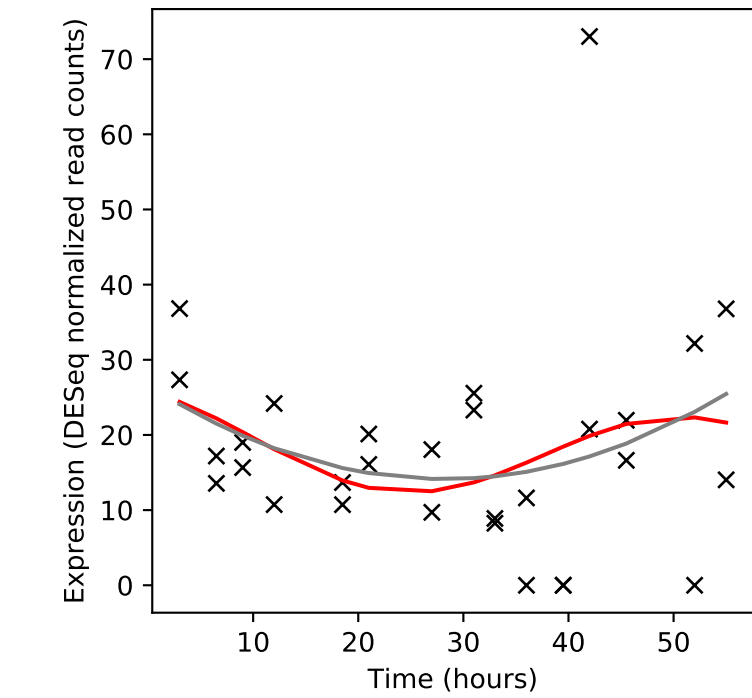
Rv2831/echA16



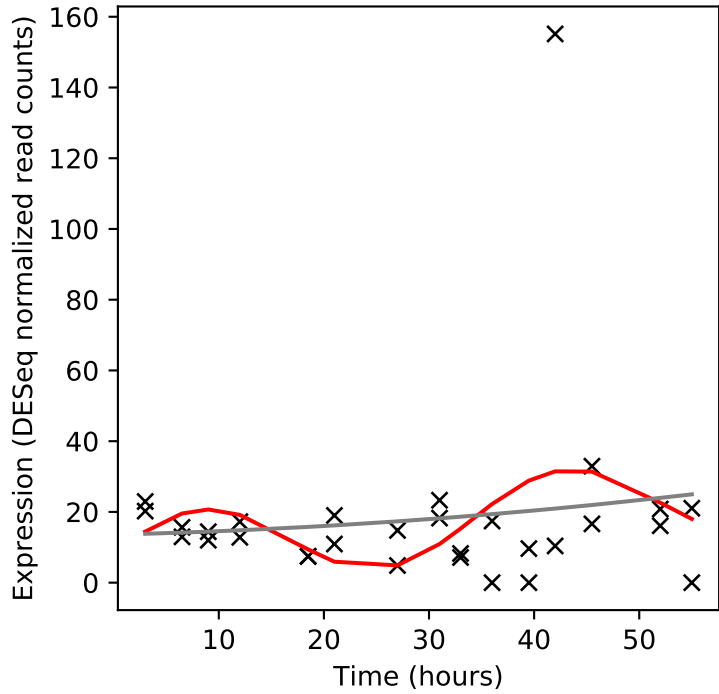
Rv2832c/ugpC



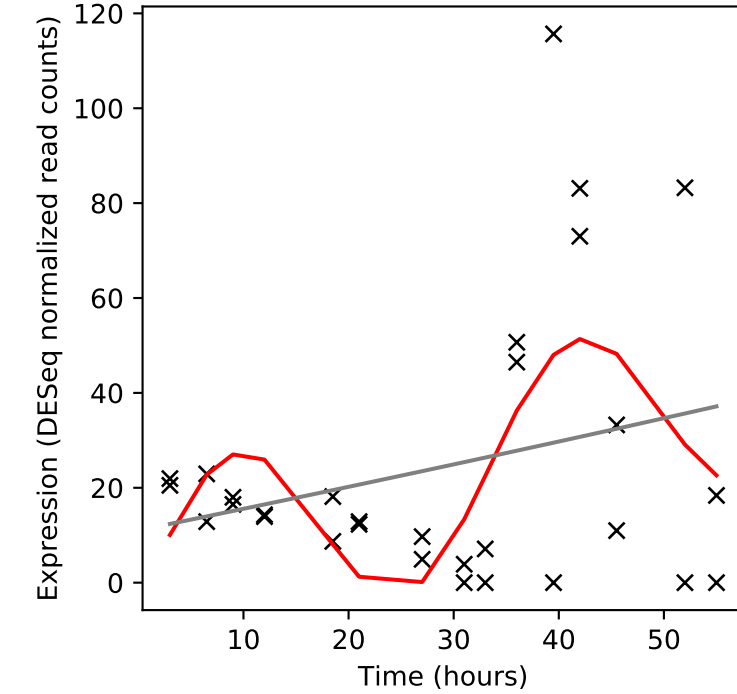
Rv2833c/ugpB



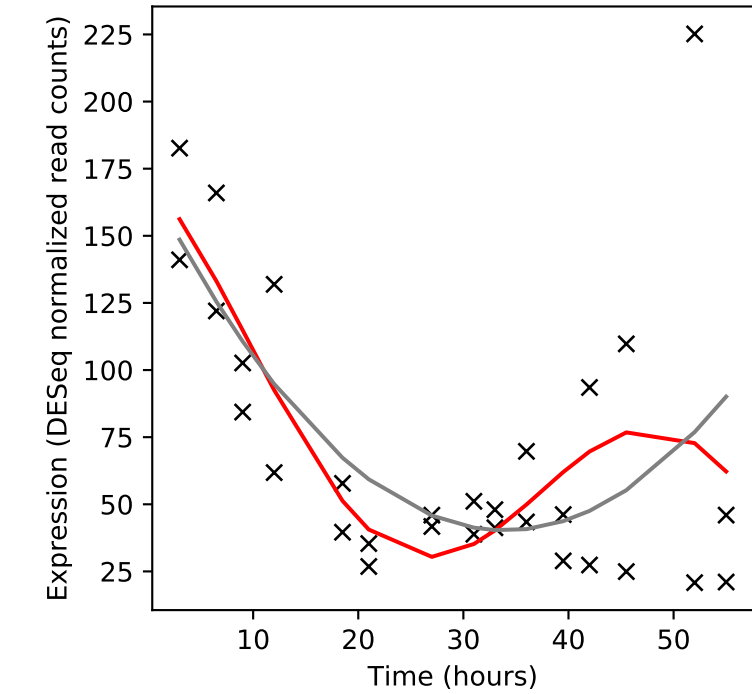
Rv2834c/ugpE



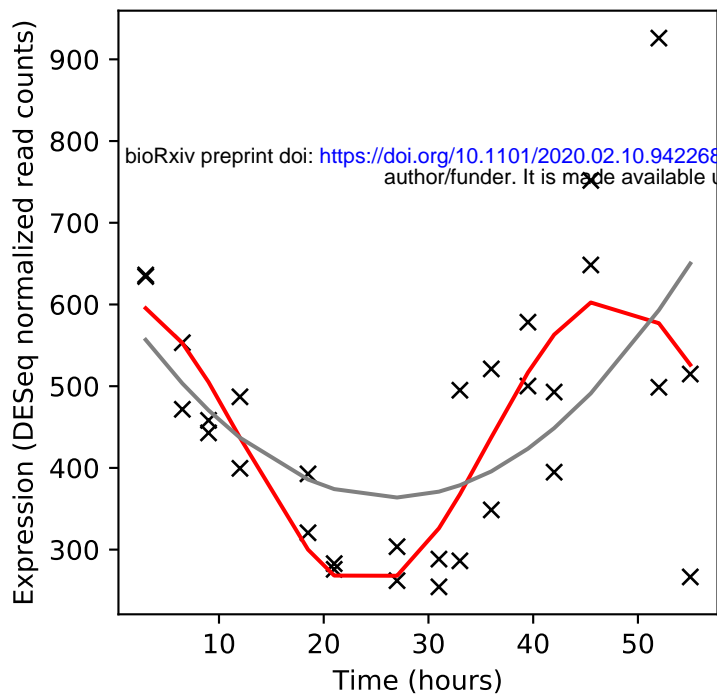
Rv2835c/ugpA



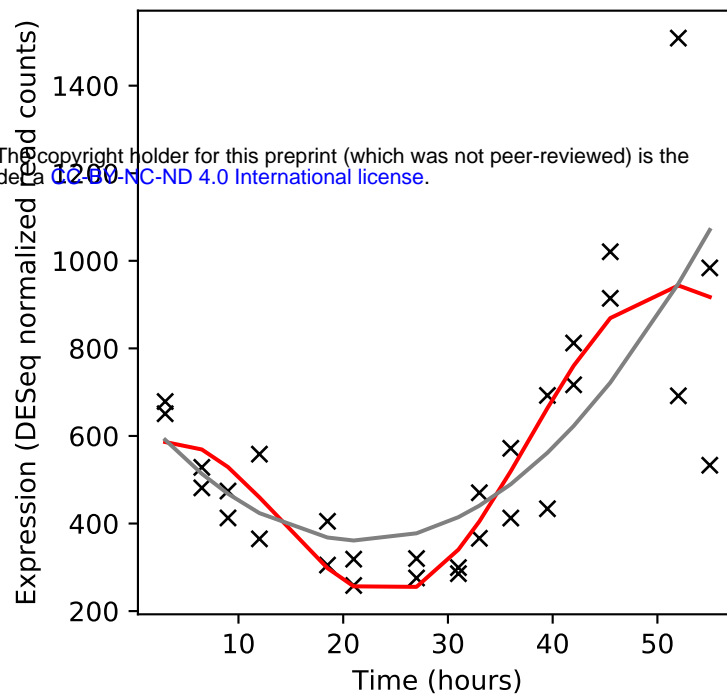
Rv2836c/dinF



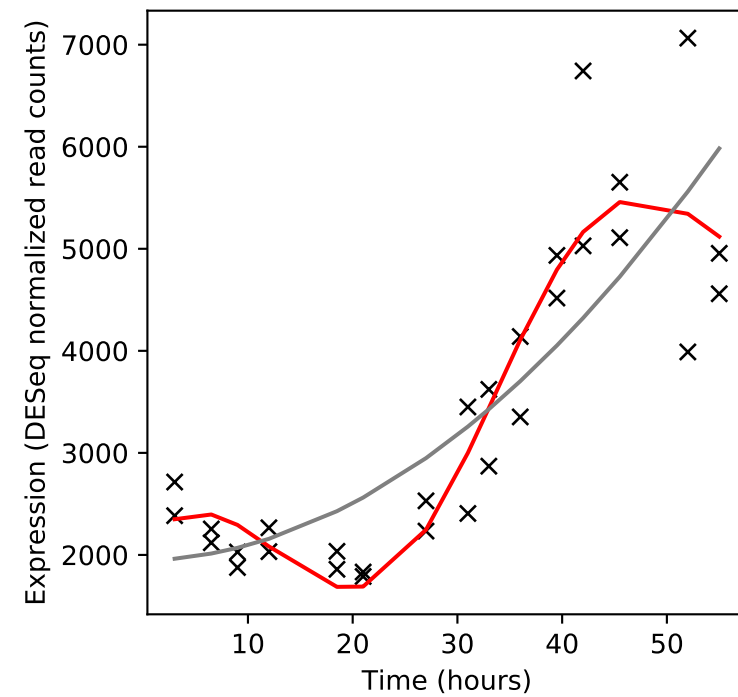
Rv2837c/-



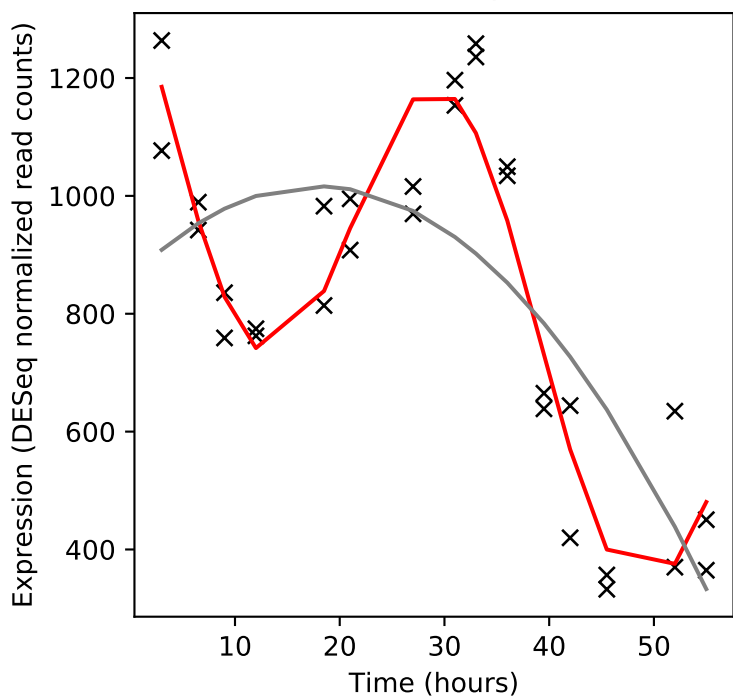
Rv2838c/rbfA



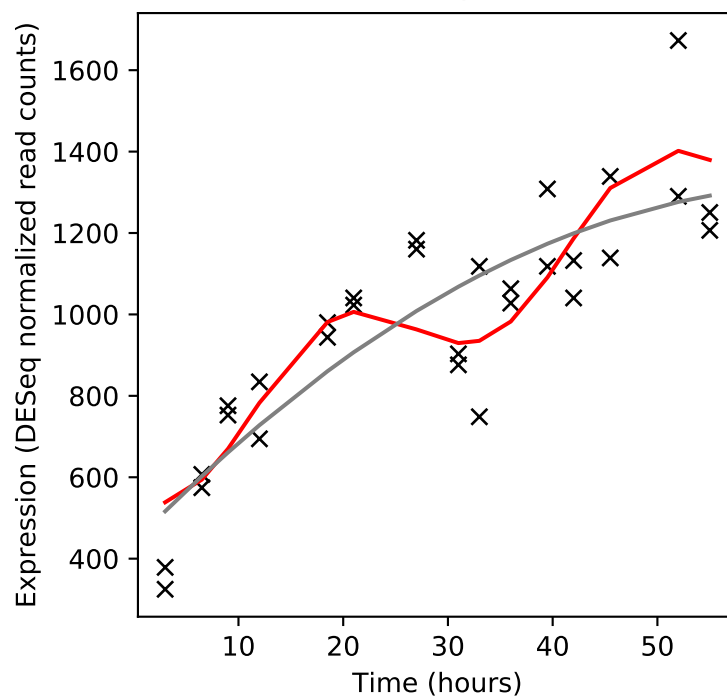
Rv2839c/infB



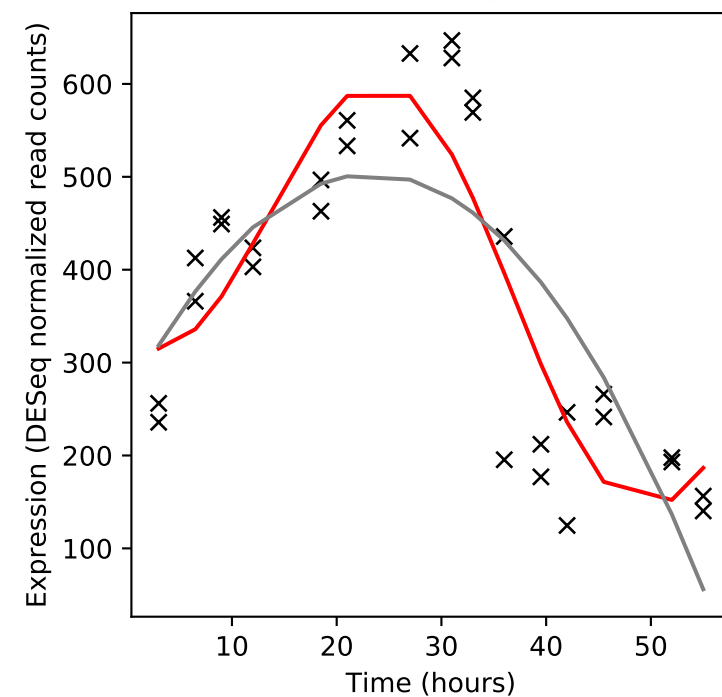
Rv2840c/-



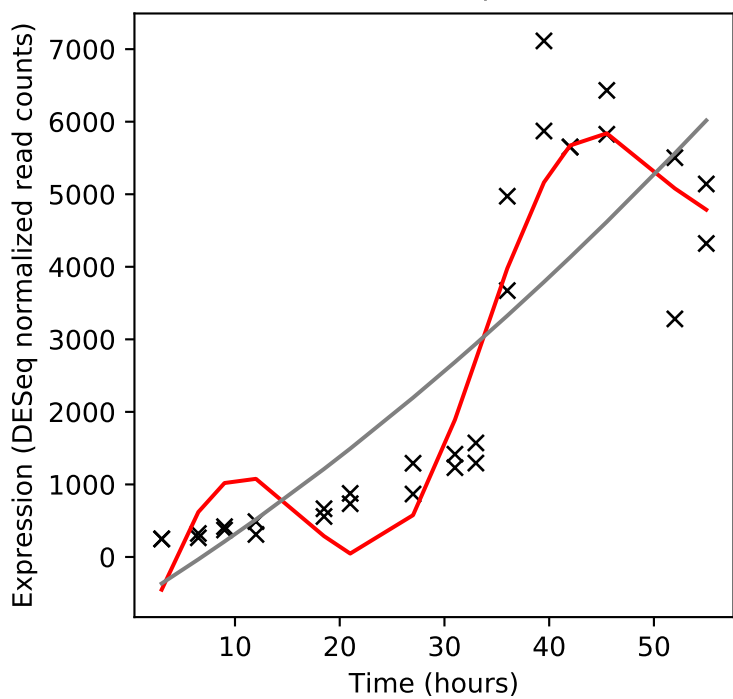
Rv2841c/nusA



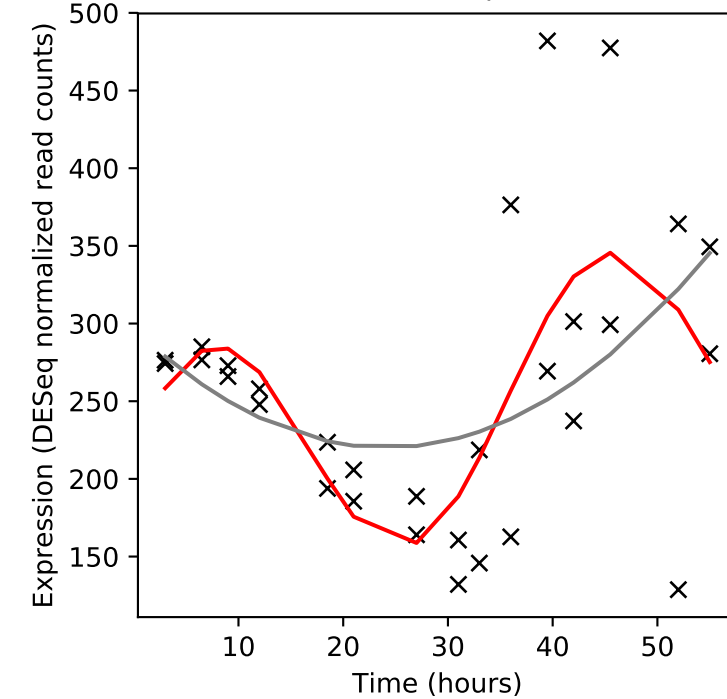
Rv2842c/-



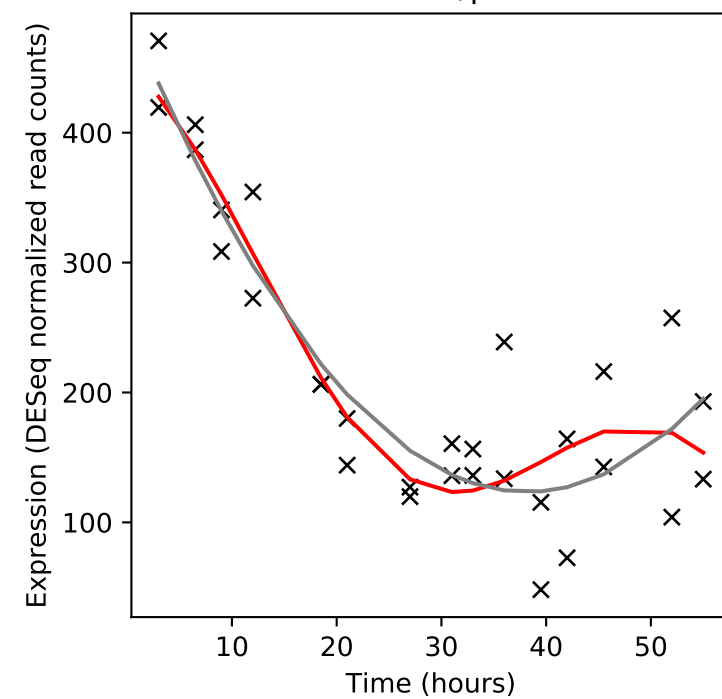
Rv2843/-



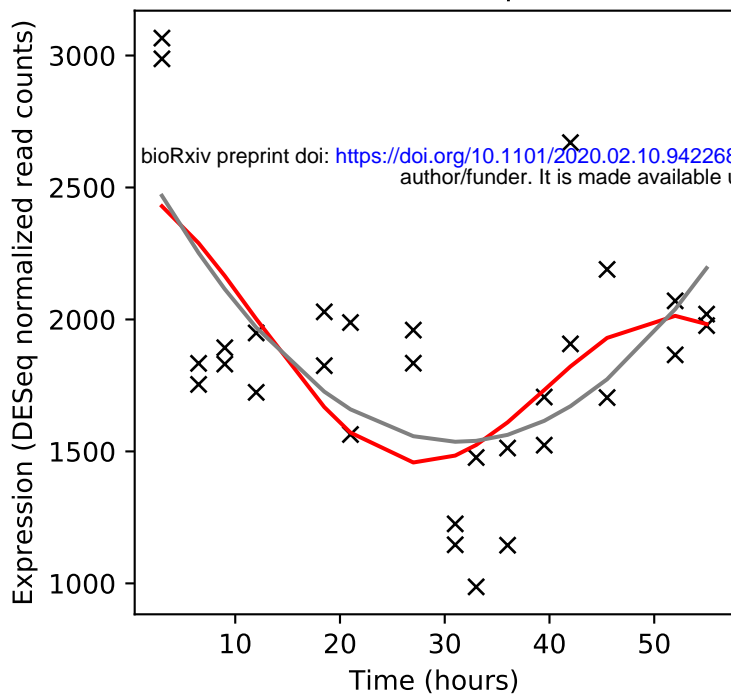
Rv2844/-



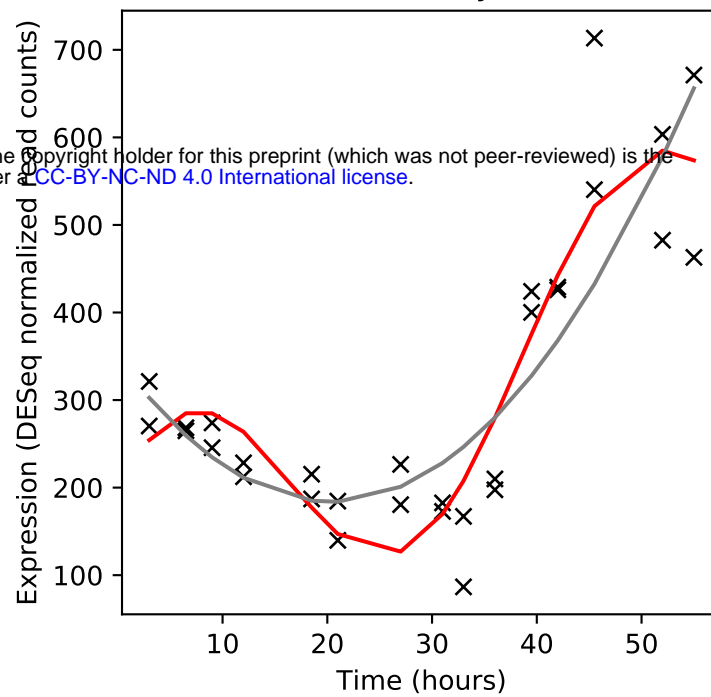
Rv2845c/proS



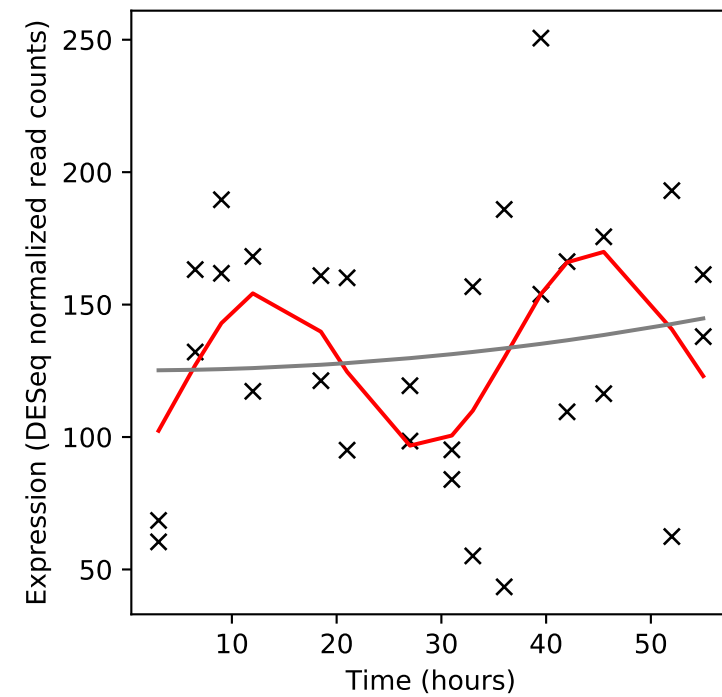
Rv2846c/efpA



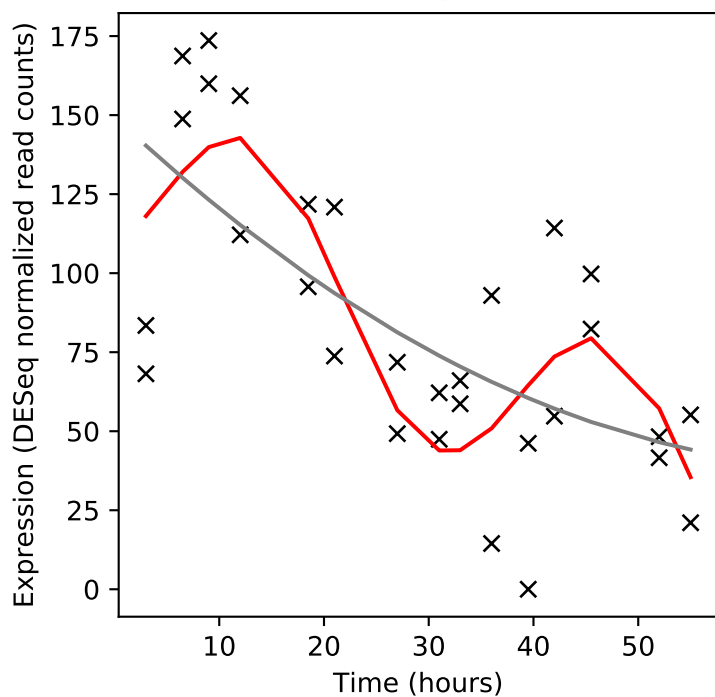
Rv2847c/cysG



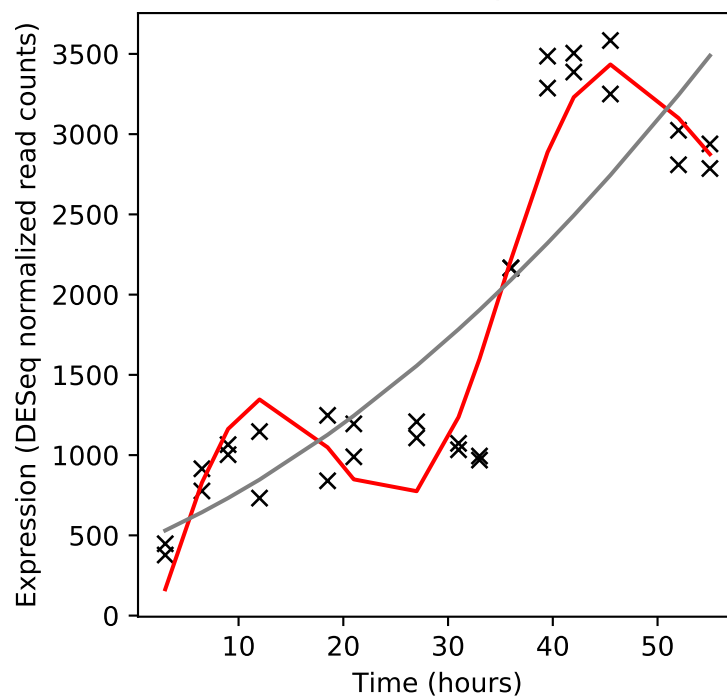
Rv2848c/cobB



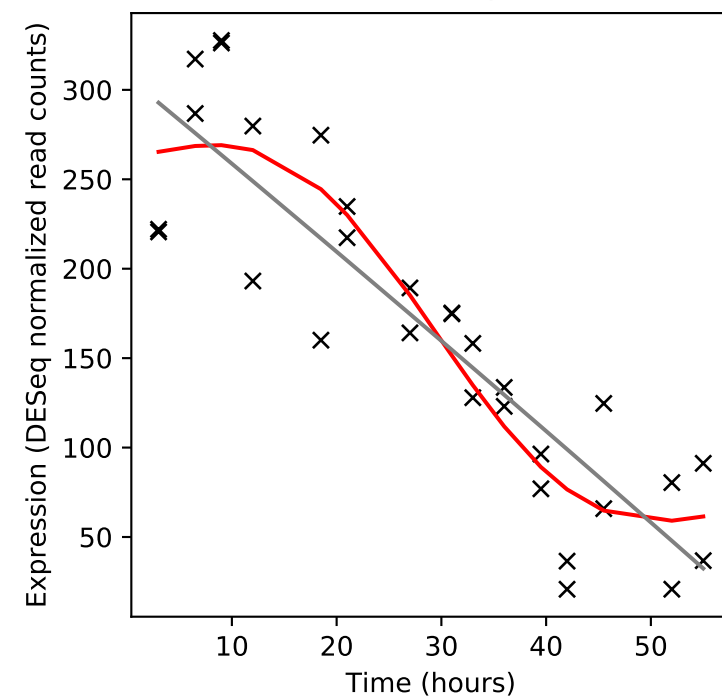
Rv2849c/cobO



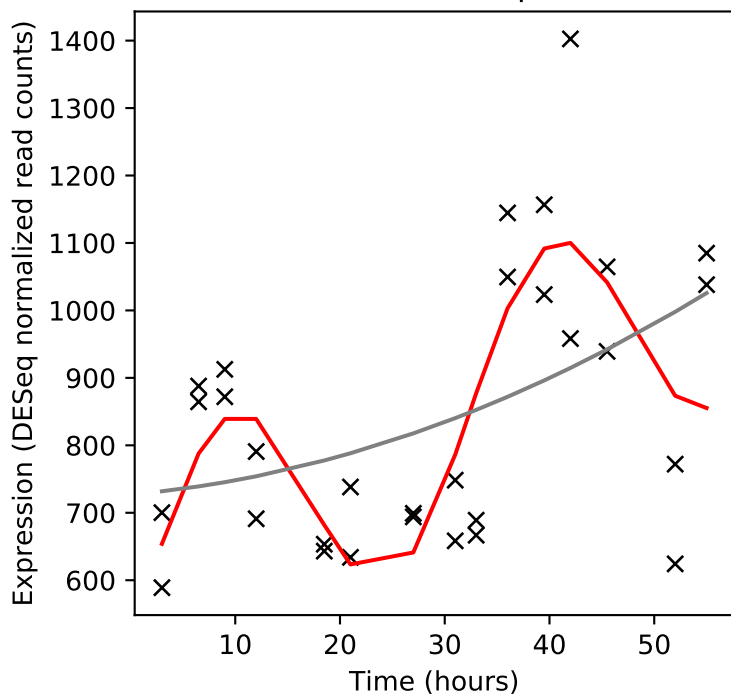
Rv2850c/-



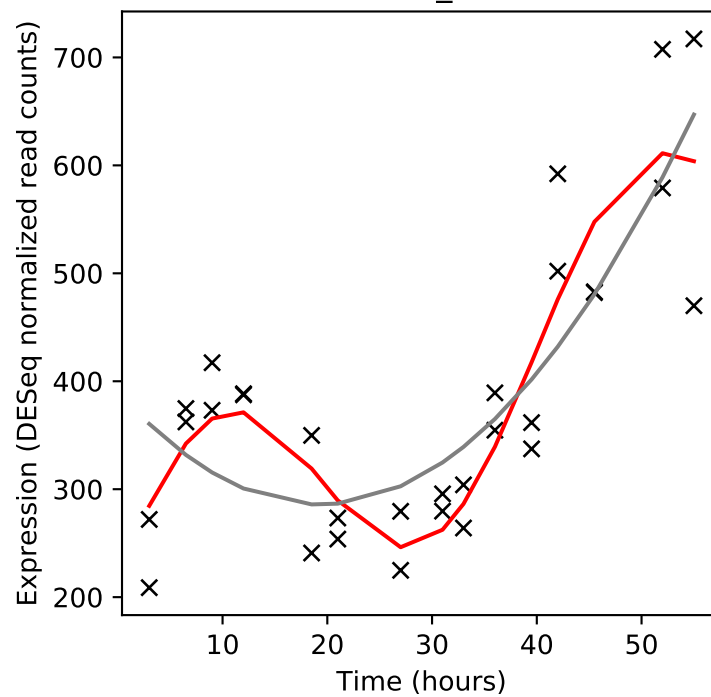
Rv2851c/-



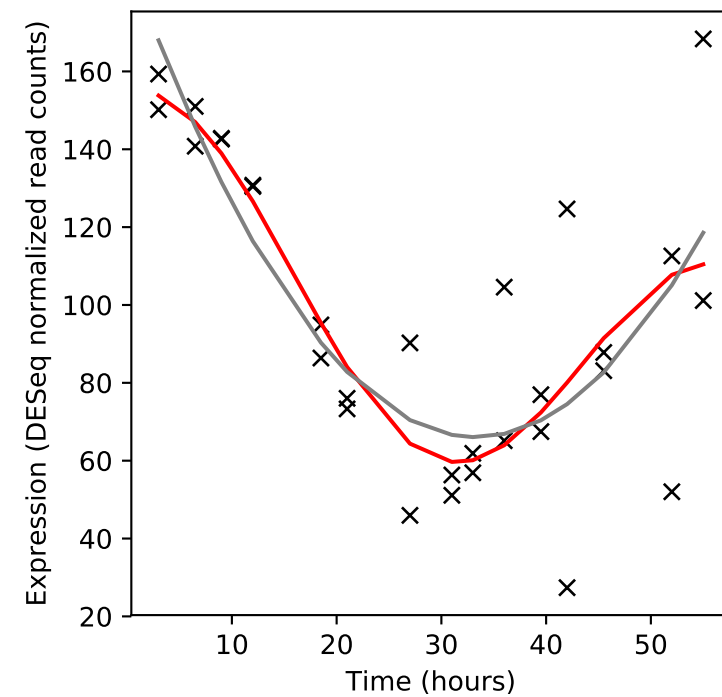
Rv2852c/mqo



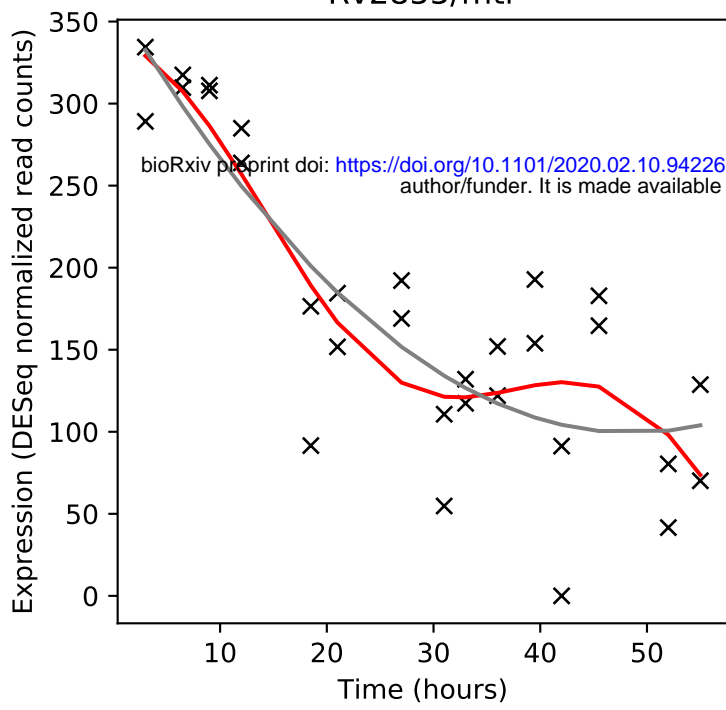
Rv2853/PE_PGRS48



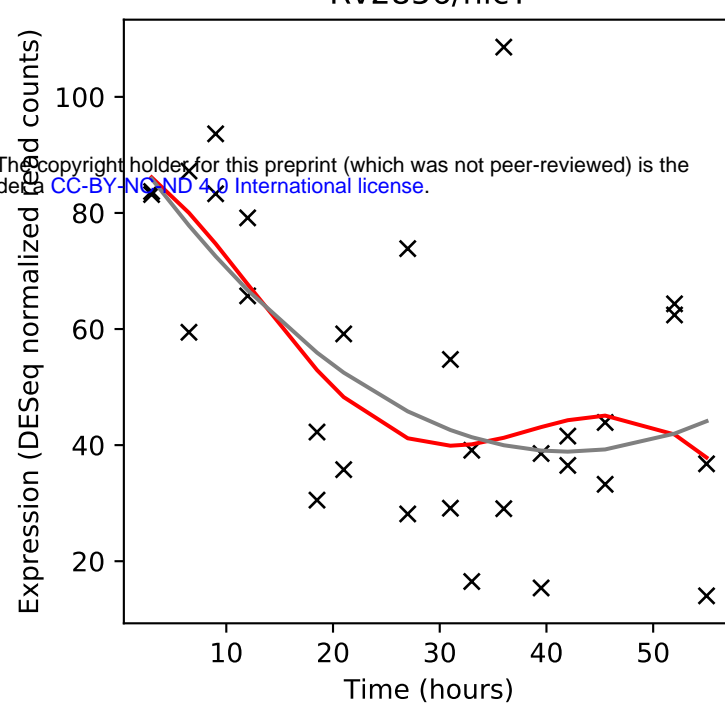
Rv2854c/-



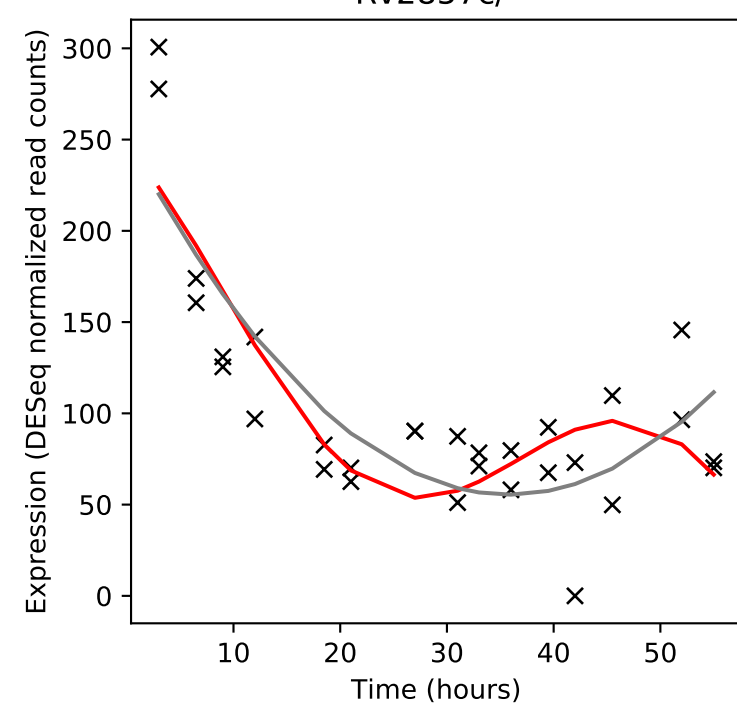
Rv2855/mtr



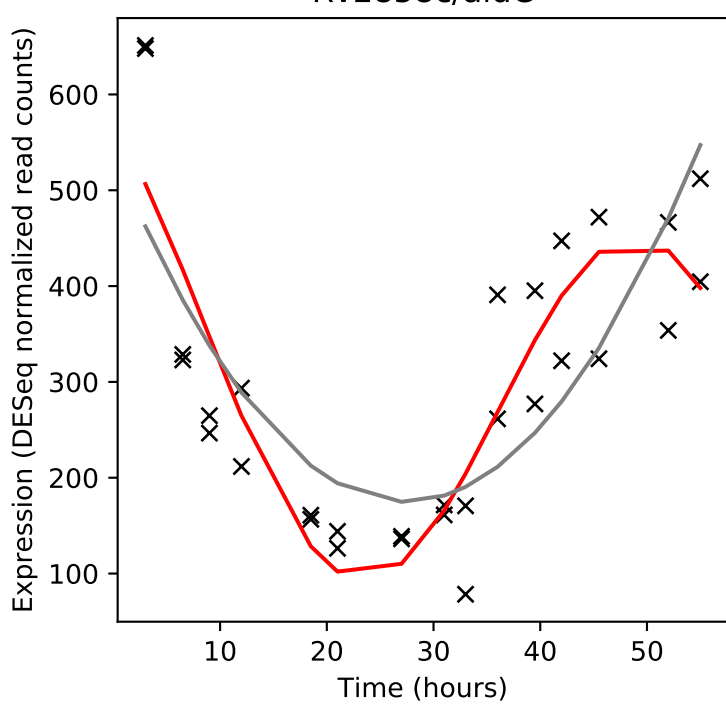
Rv2856/nicT



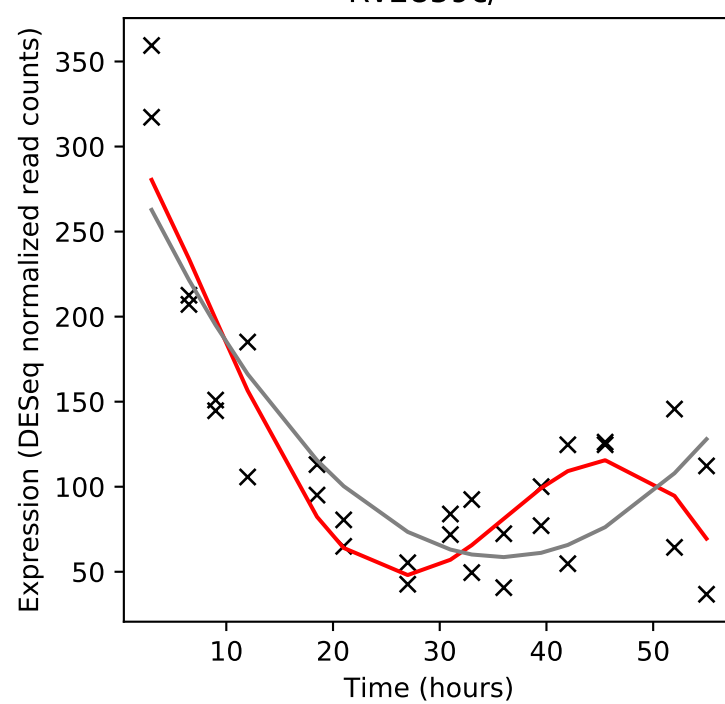
Rv2857c/-



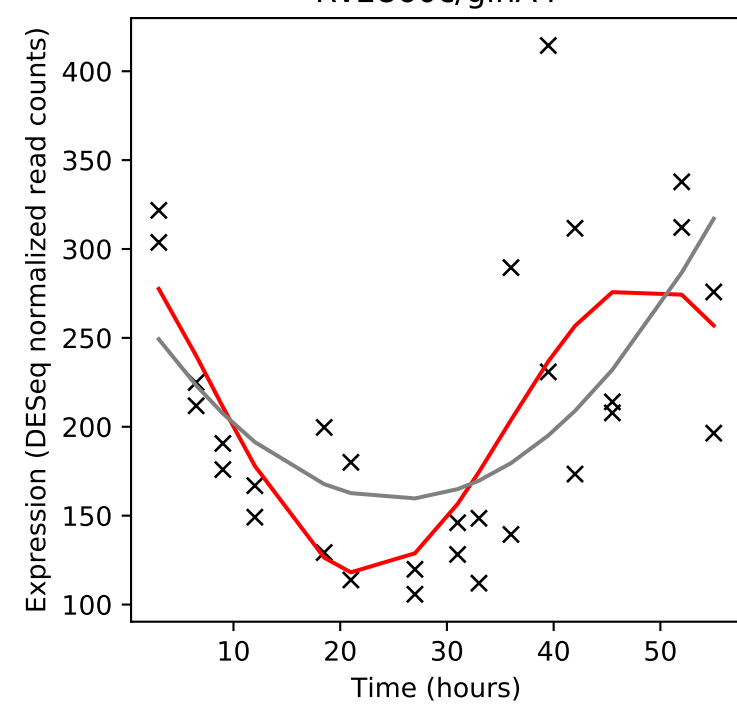
Rv2858c/aldC



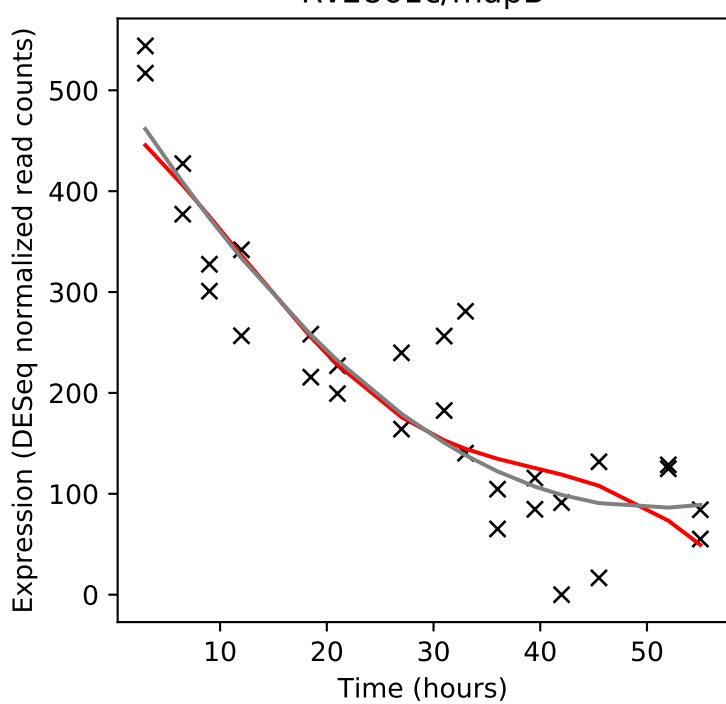
Rv2859c/-



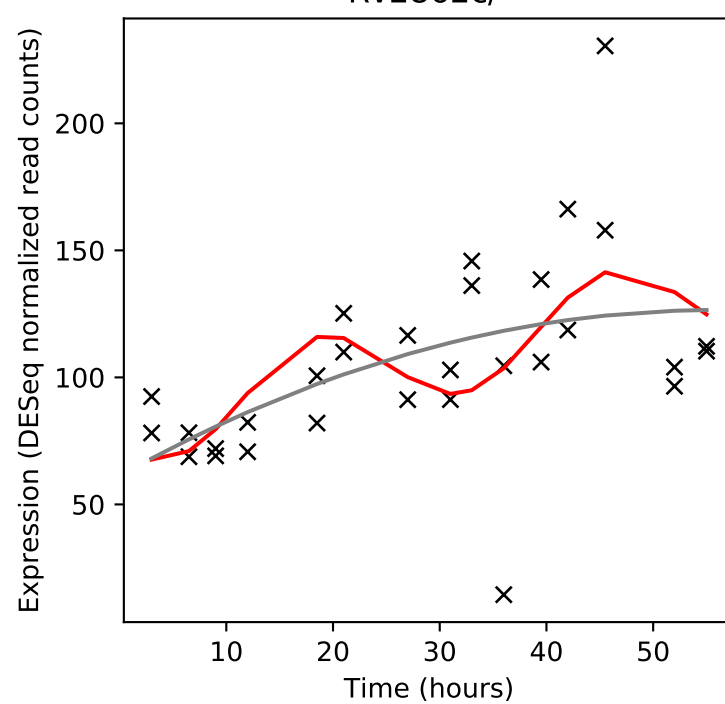
Rv2860c/glnA4



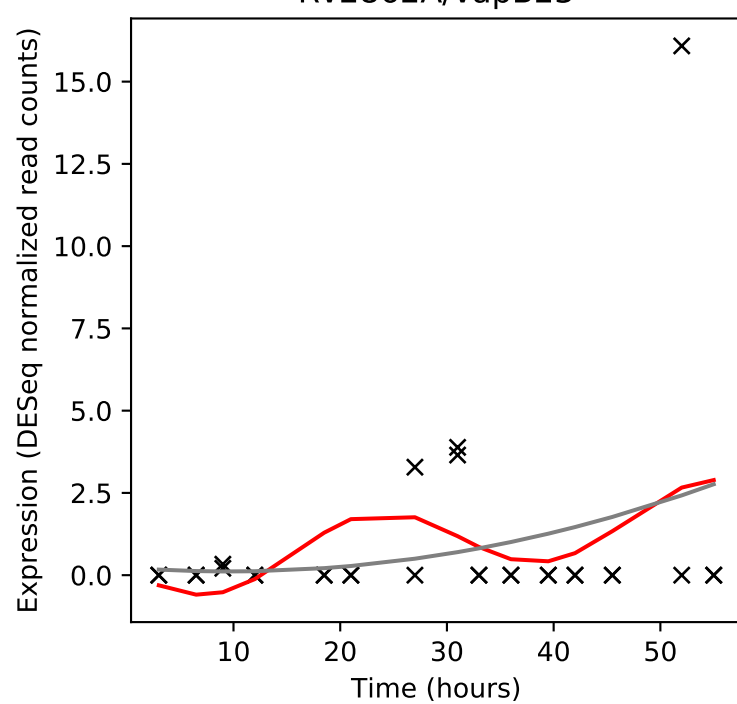
Rv2861c/mapB



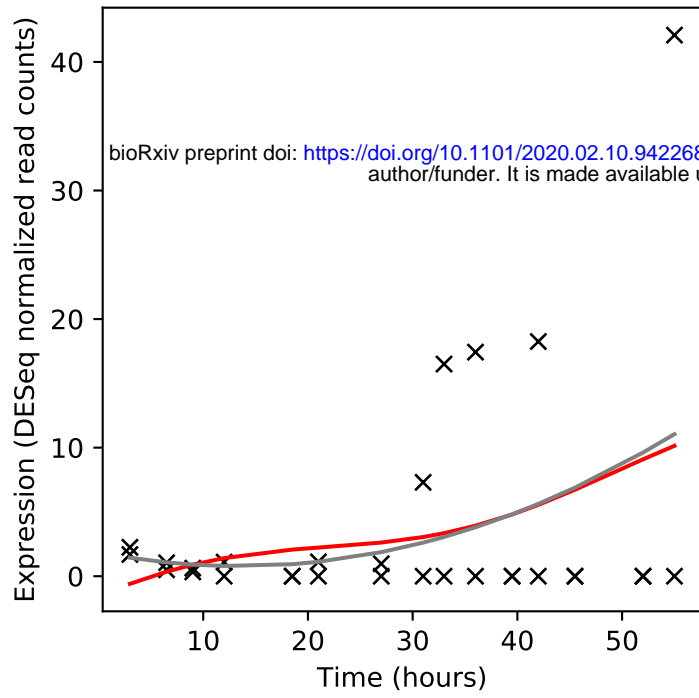
Rv2862c/-



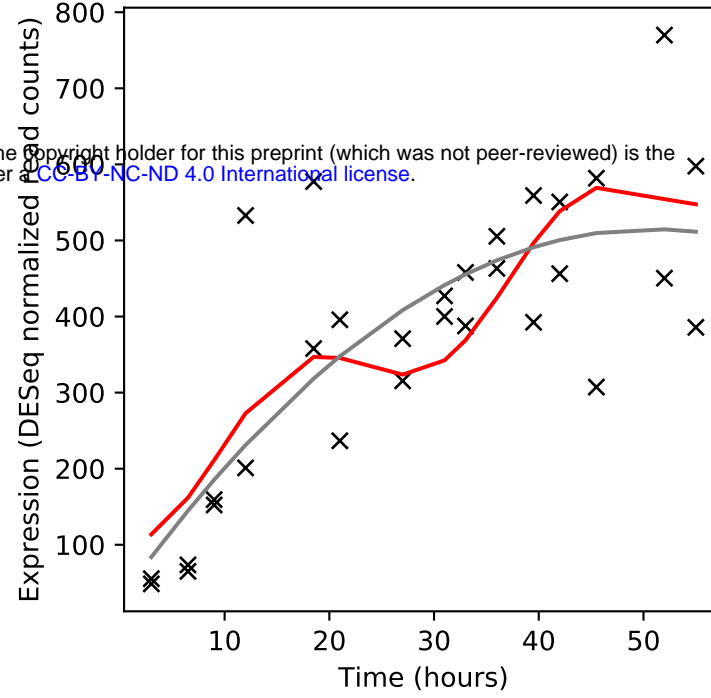
Rv2862A/vapB23



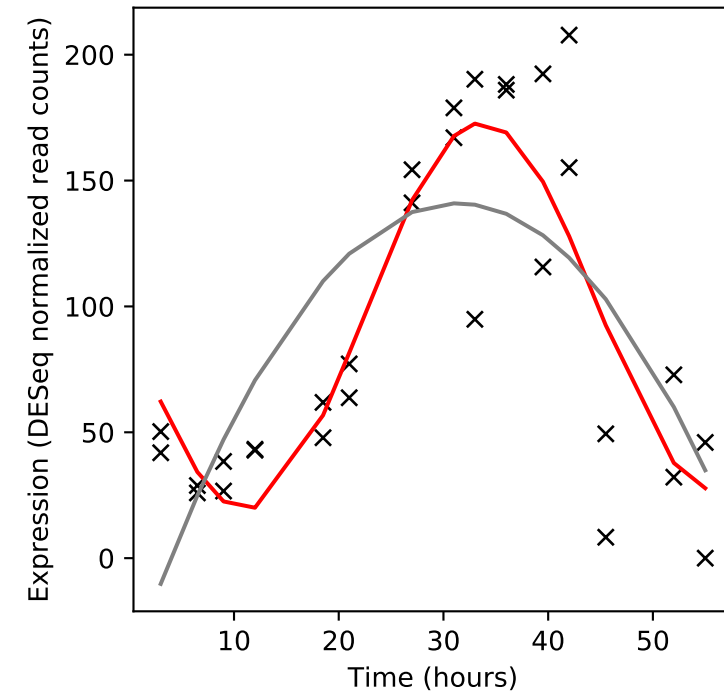
Rv2863/vapC23



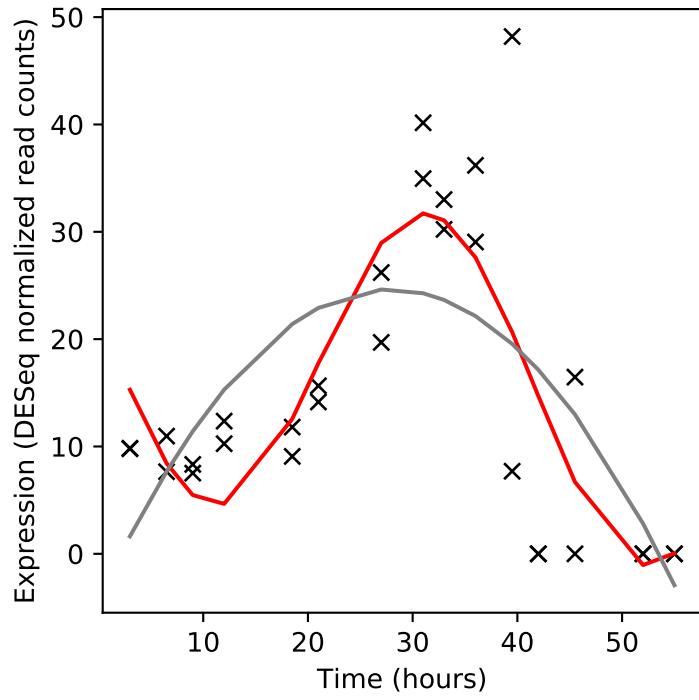
Rv2864c/-



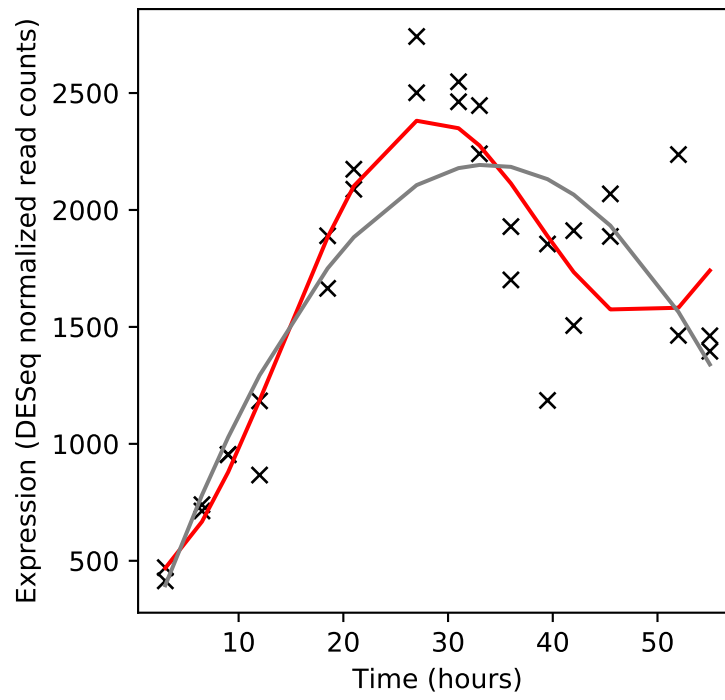
Rv2865/reIF



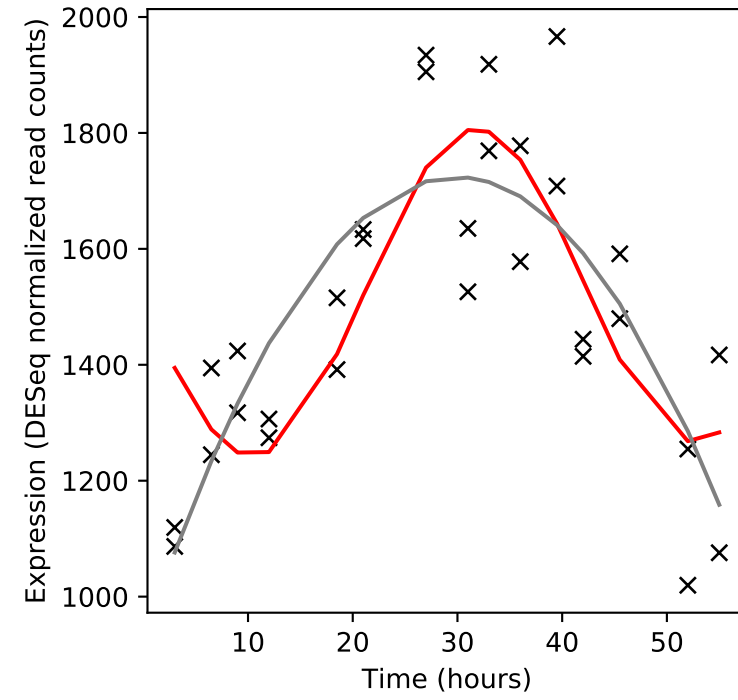
Rv2866/reIG



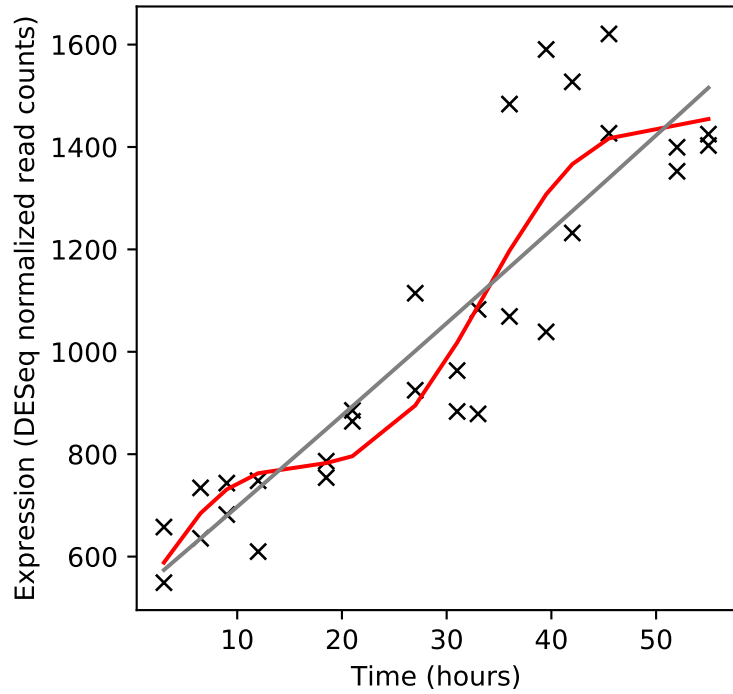
Rv2867c/-



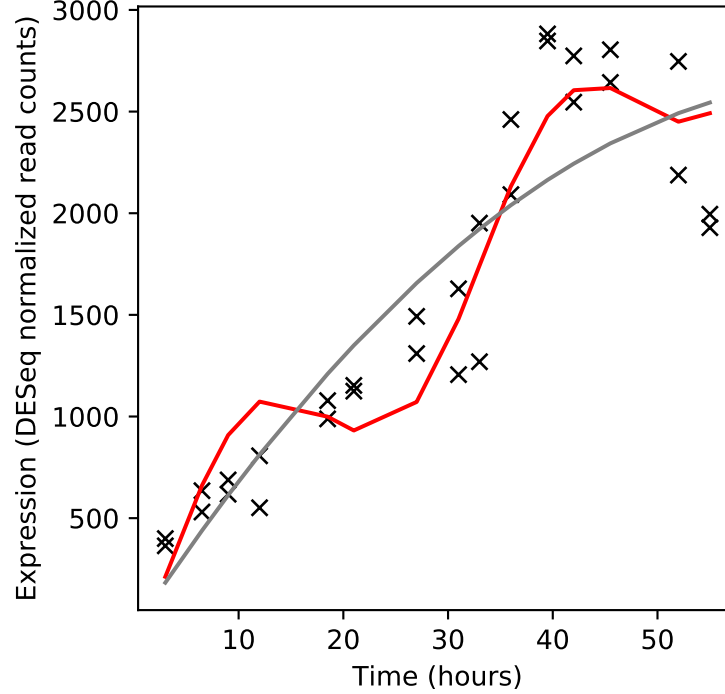
Rv2868c/gcpE



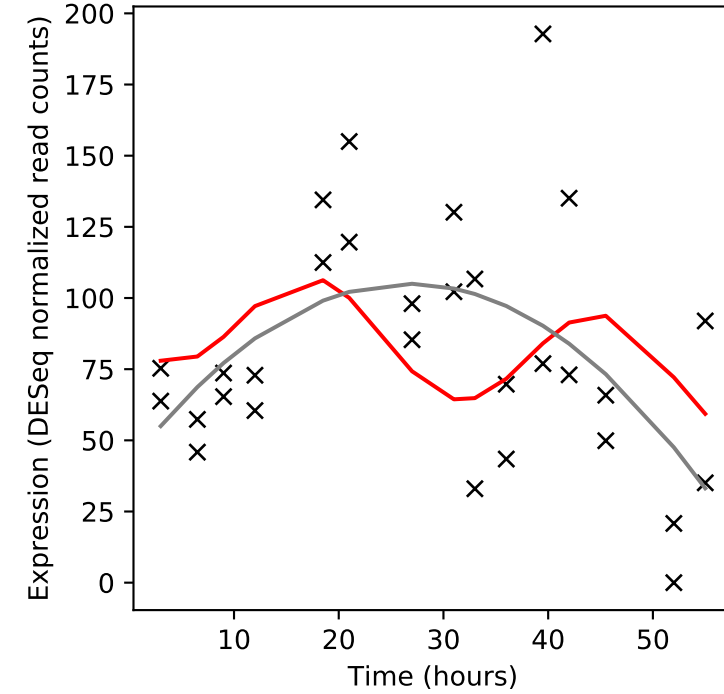
Rv2869c/rip



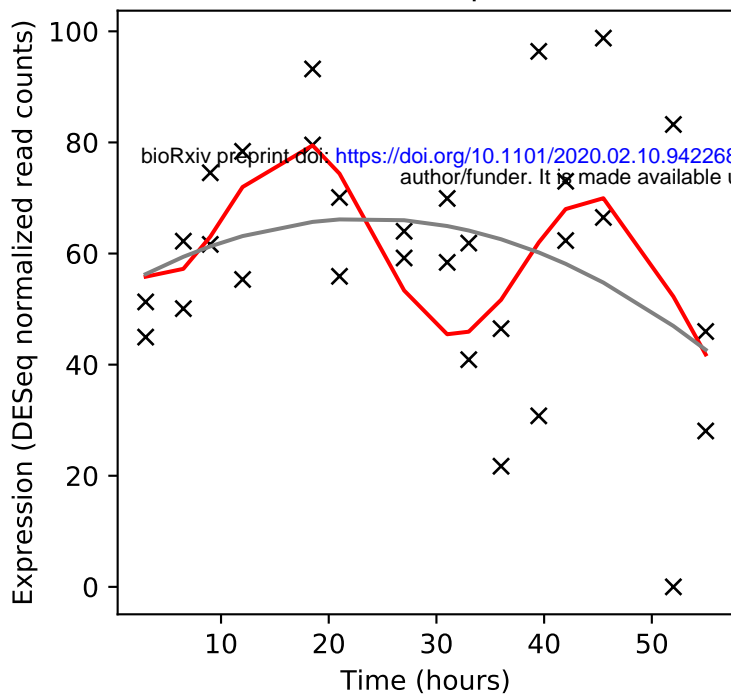
Rv2870c/dxr



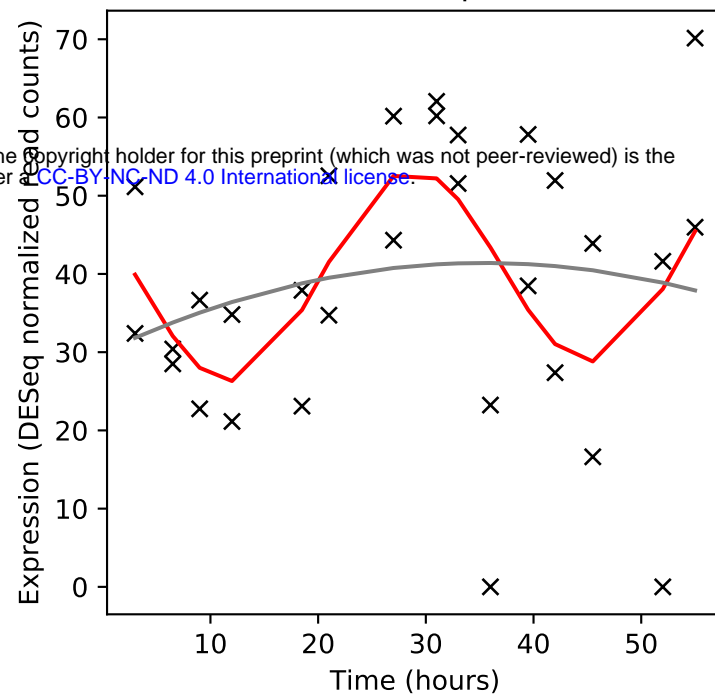
Rv2871/vapB43



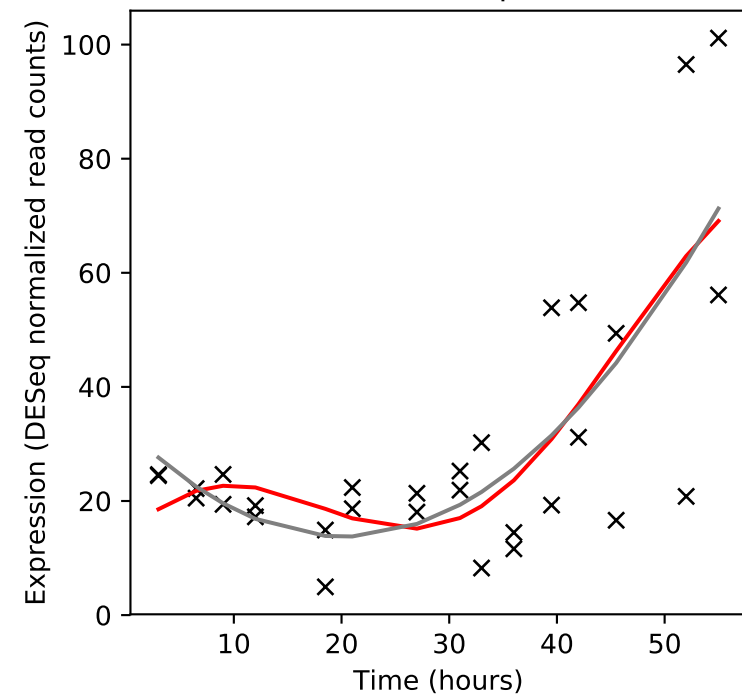
Rv2872/vapC43



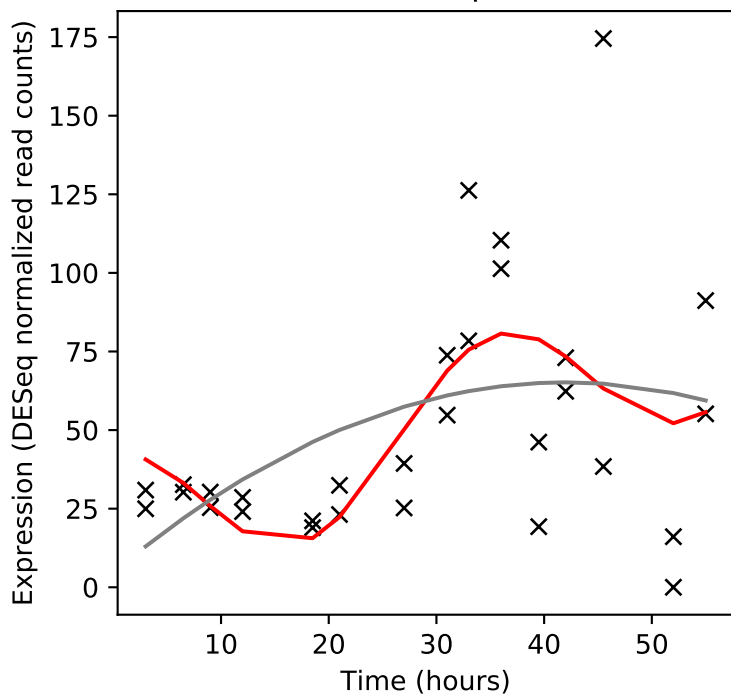
Rv2873/mpt83



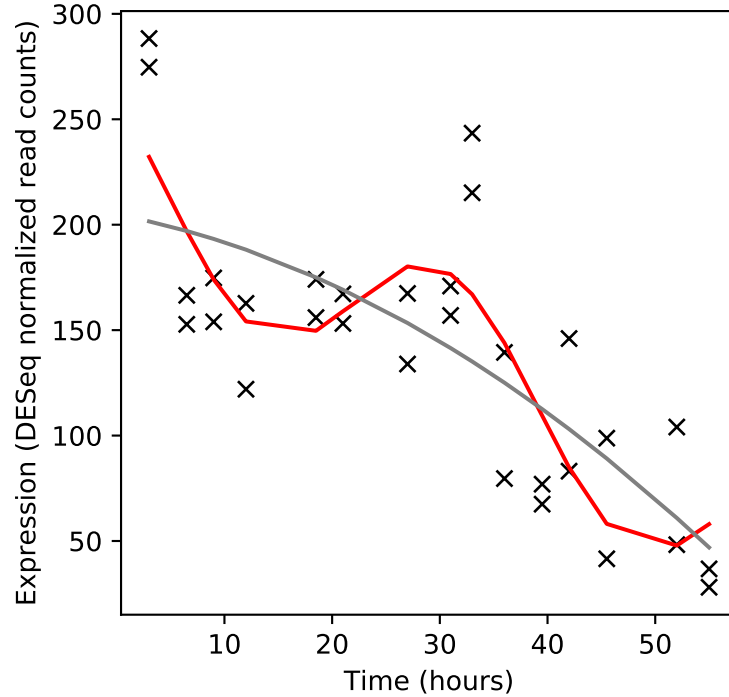
Rv2874/dipZ



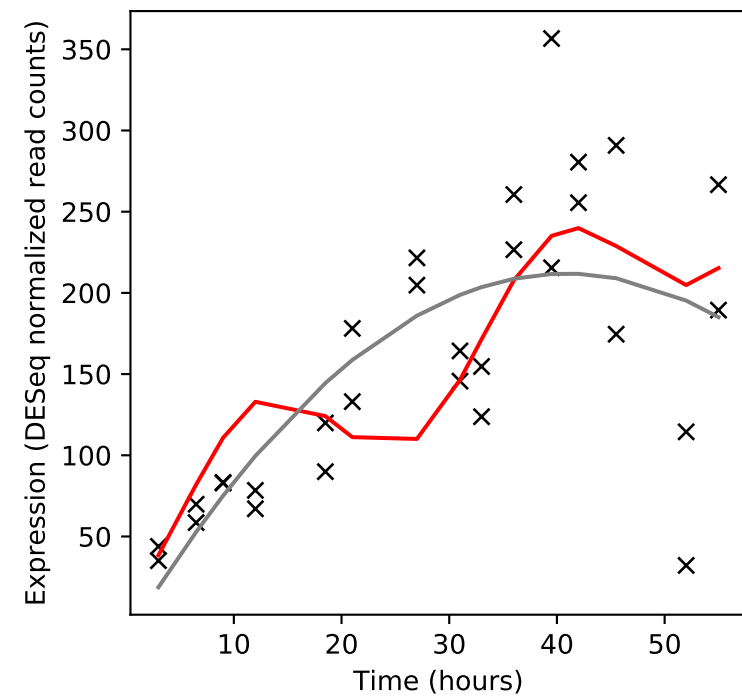
Rv2875/mpt70



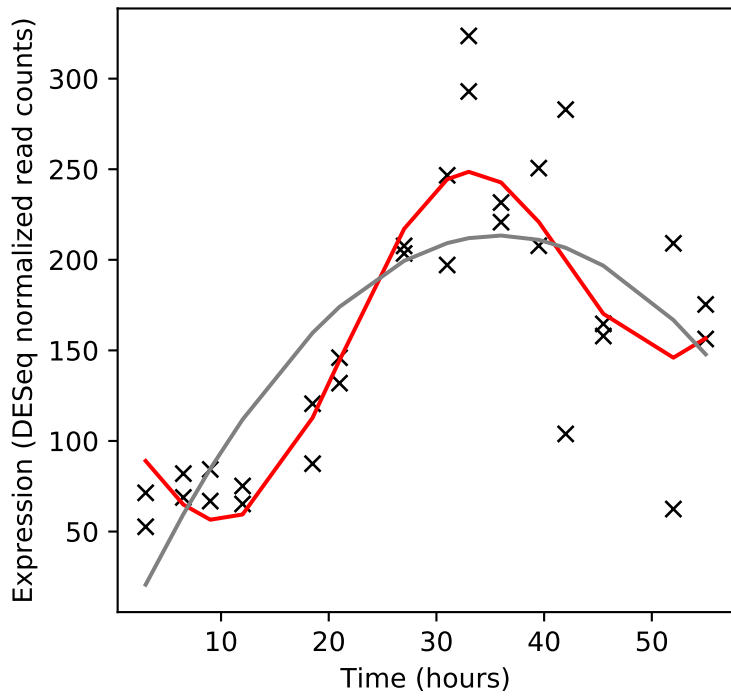
Rv2876/-



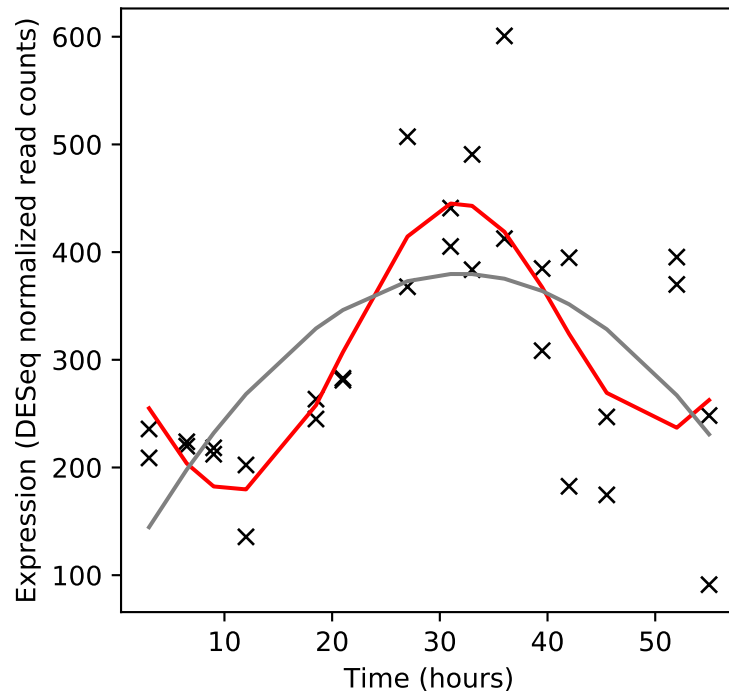
Rv2877c/-



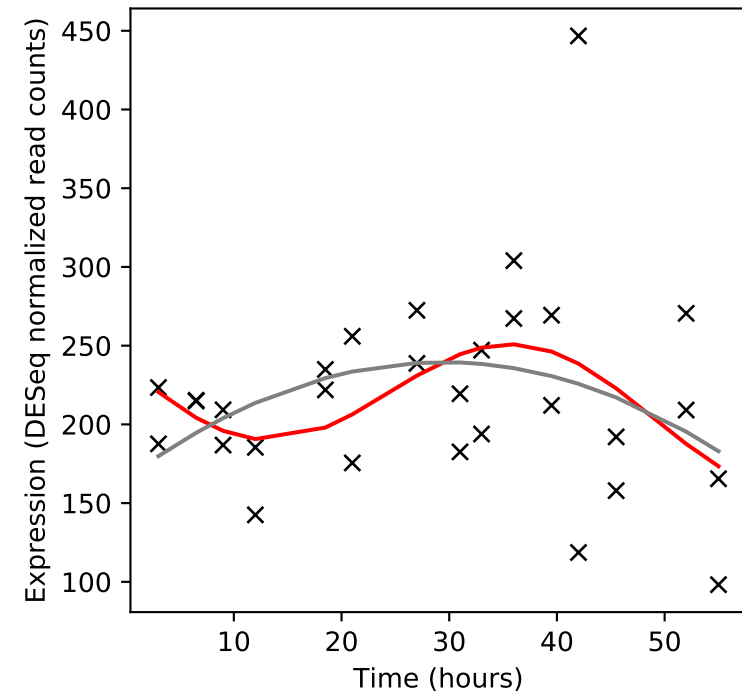
Rv2878c/mpt53



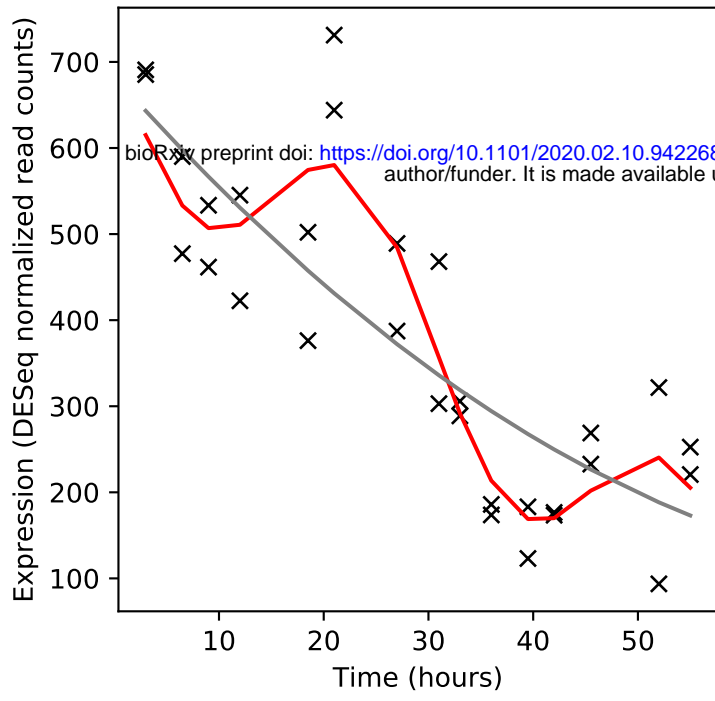
Rv2879c/-



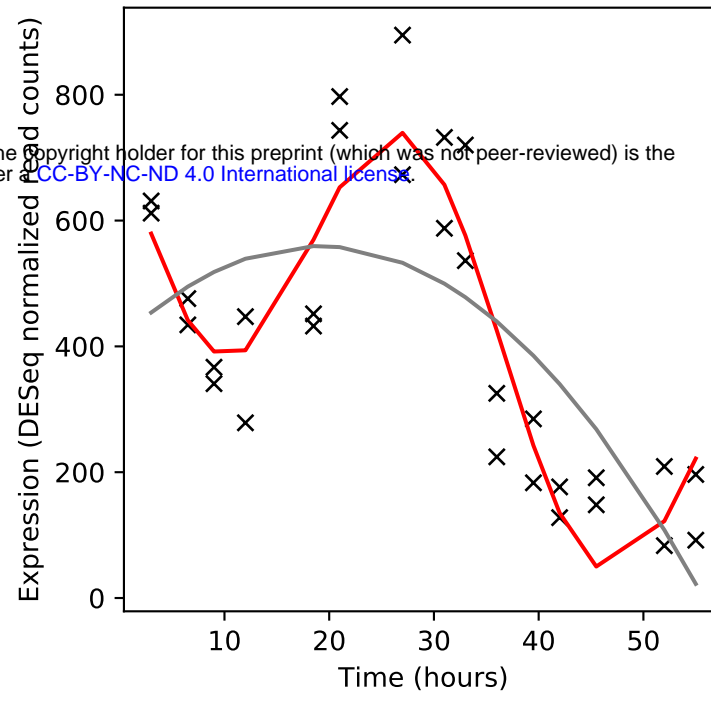
Rv2880c/-



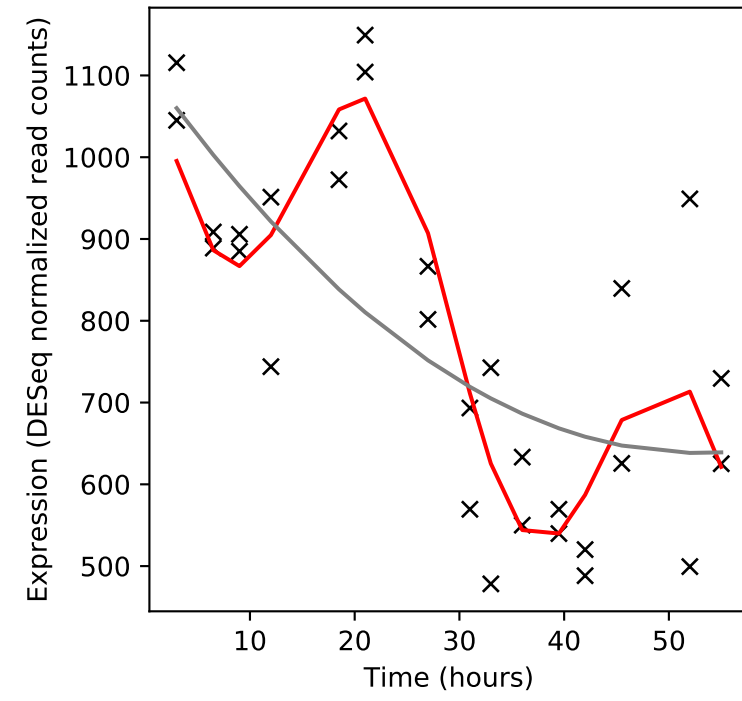
Rv2881c/cdsA



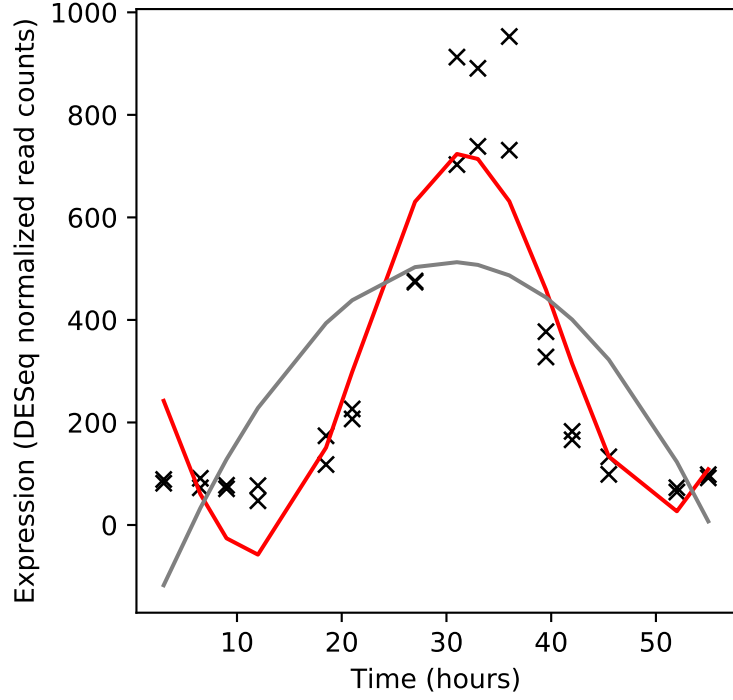
Rv2882c/frr



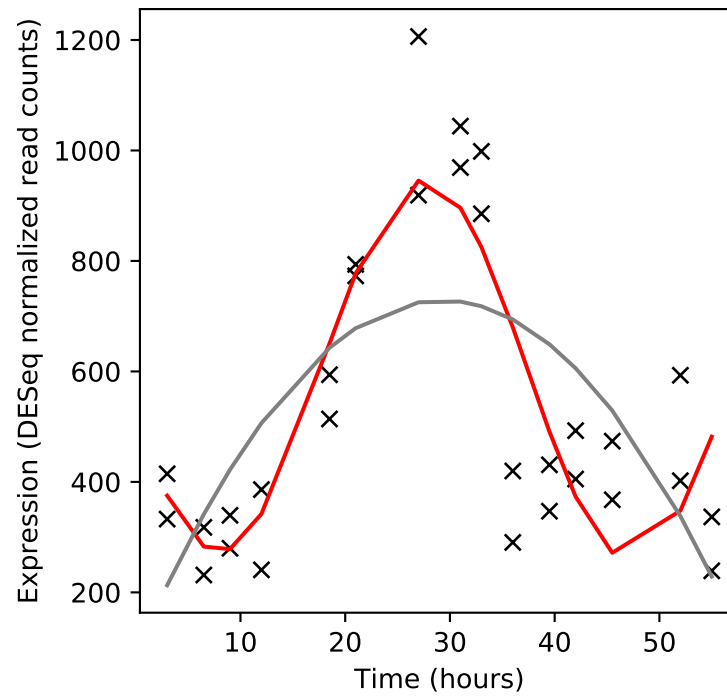
Rv2883c/pyrH



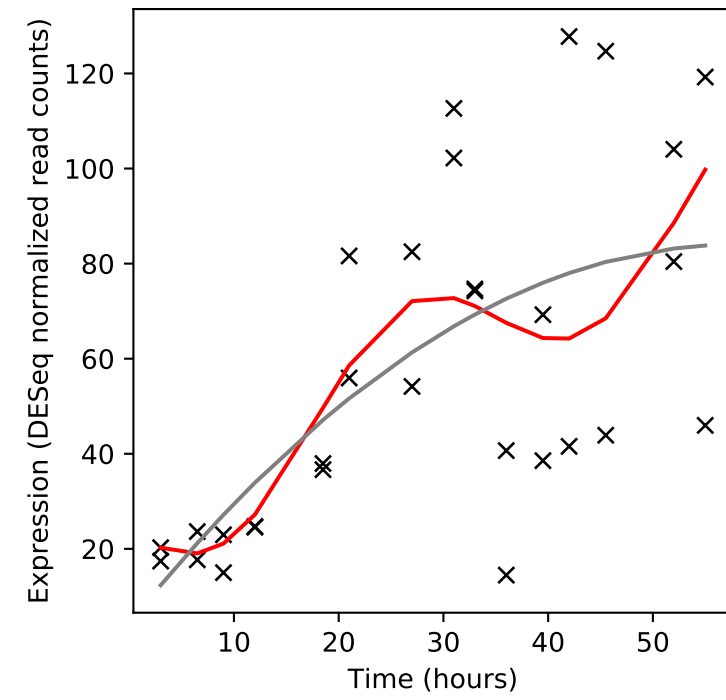
Rv2884c/-



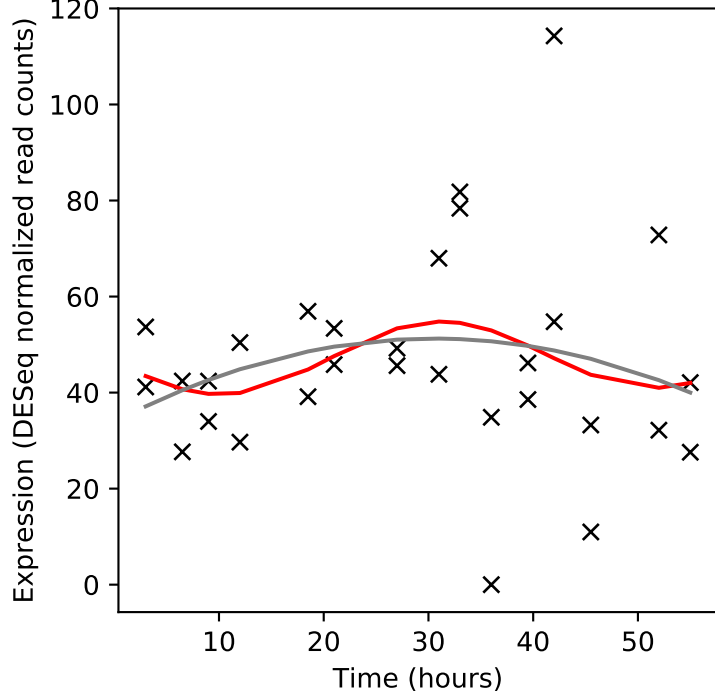
Rv2885c/-



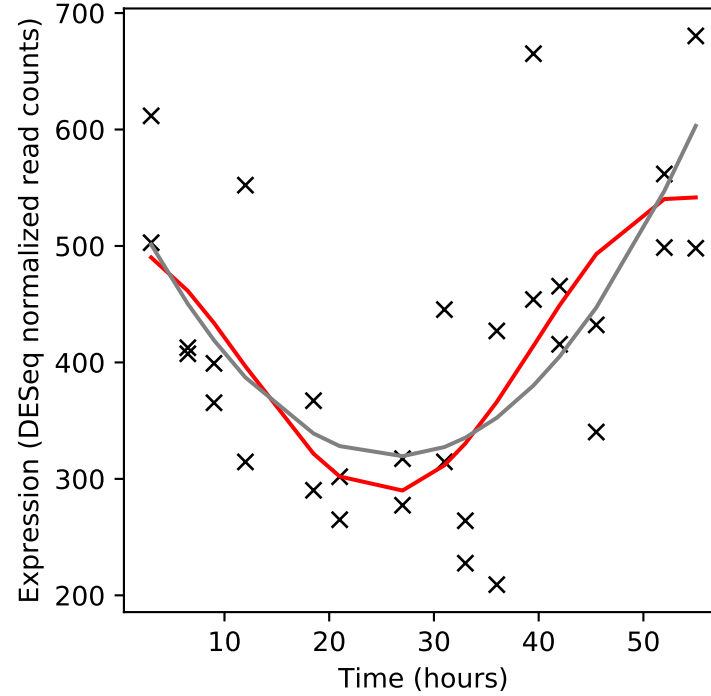
Rv2886c/-



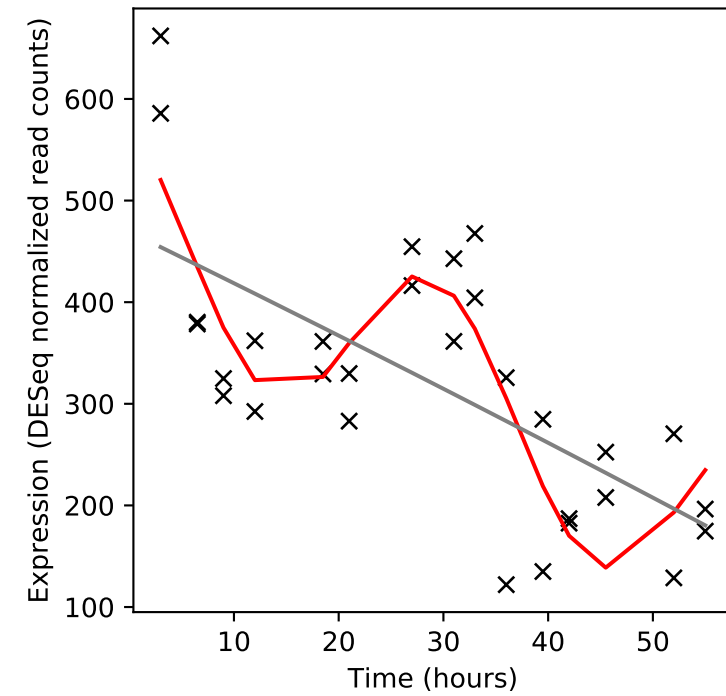
Rv2887c/-



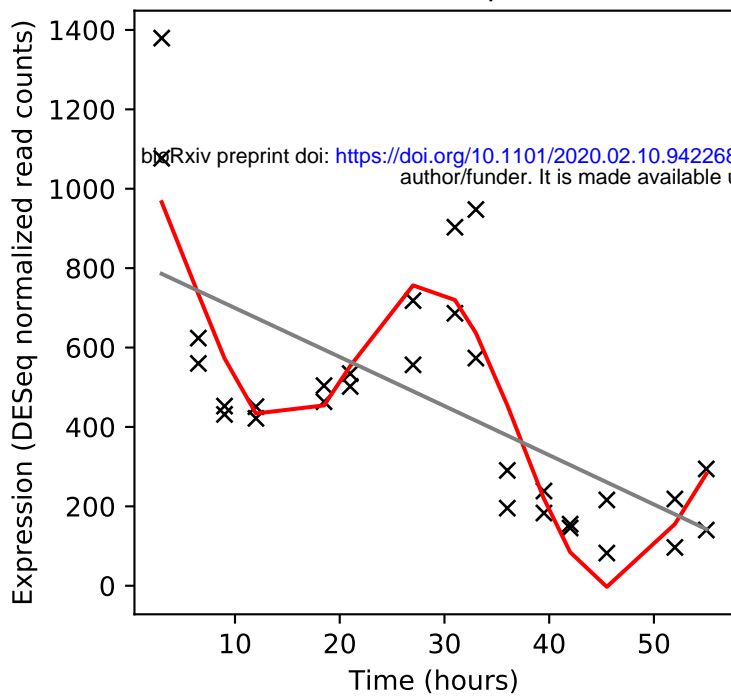
Rv2888c/amiC



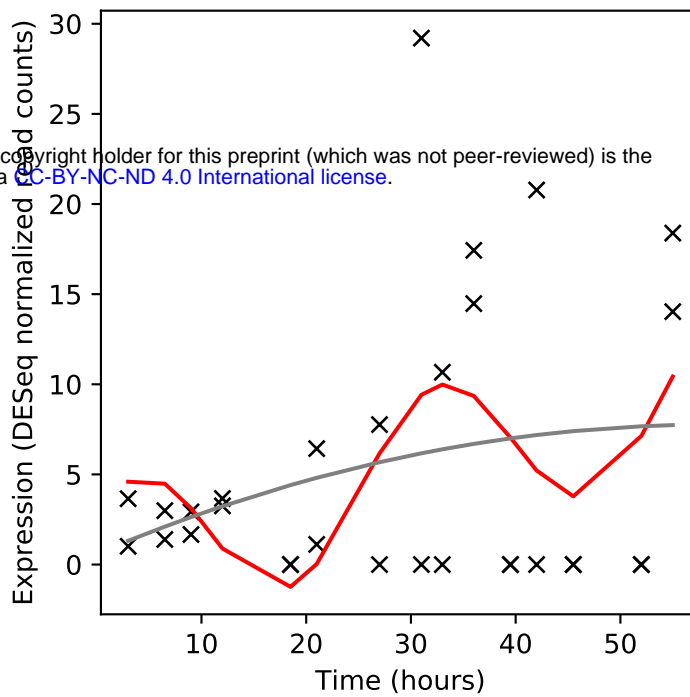
Rv2889c/tsf



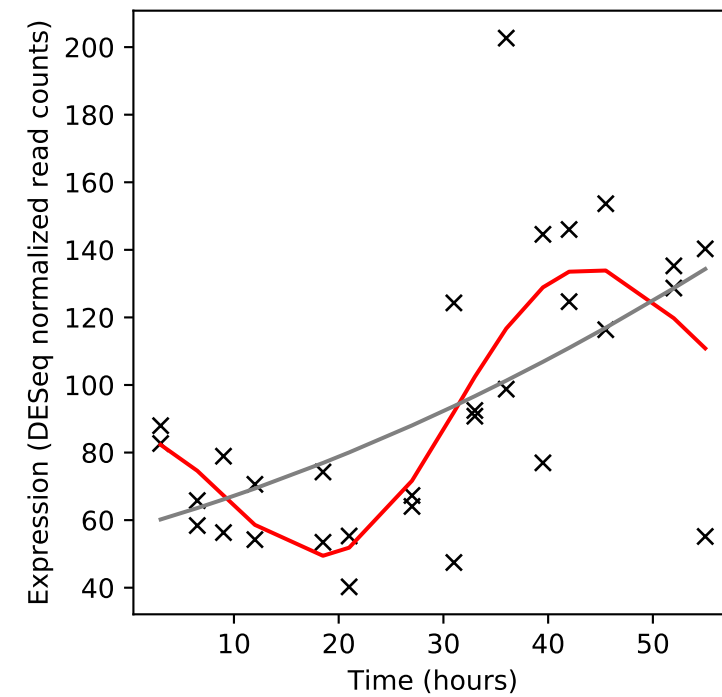
Rv2890c/rpsB



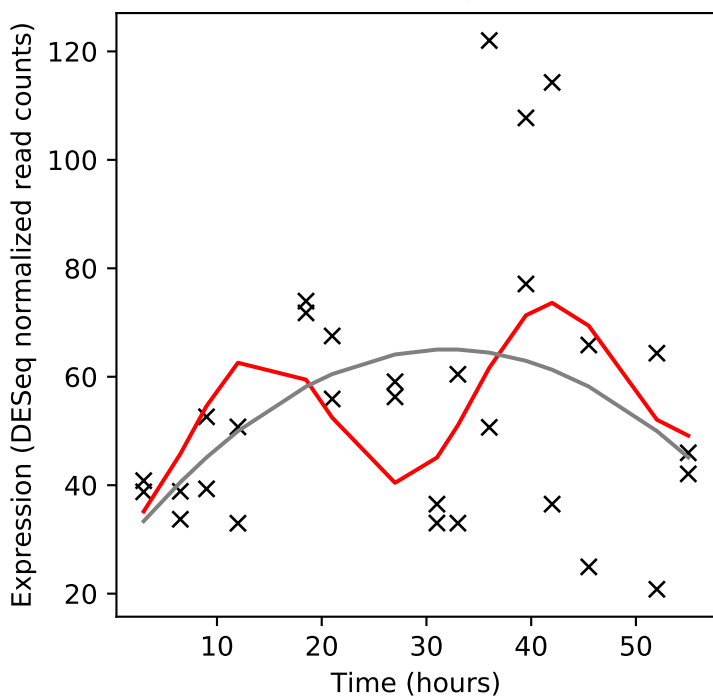
Rv2891/-



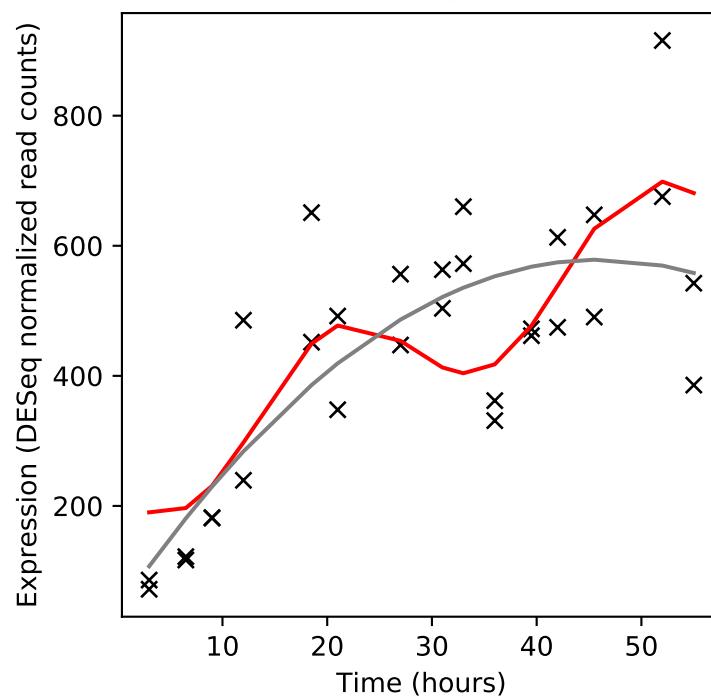
Rv2892c/PPE45



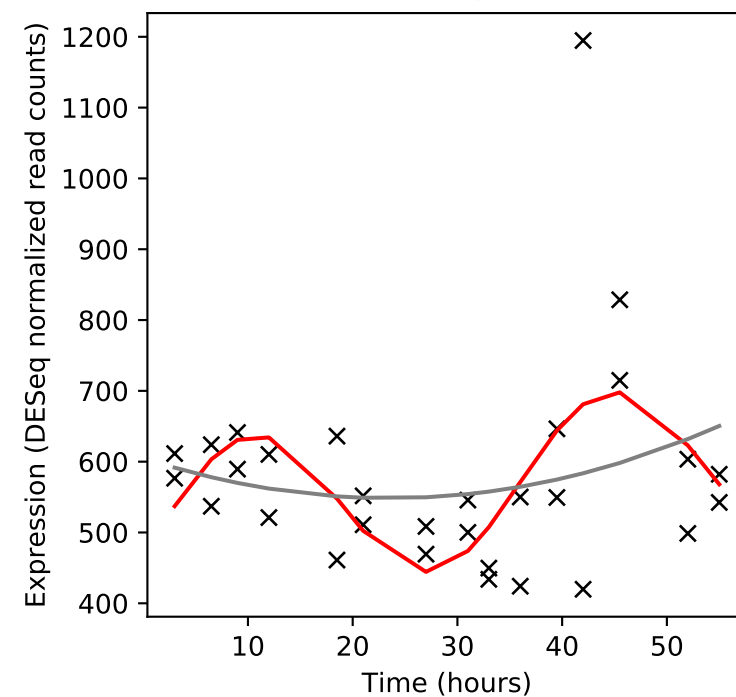
Rv2893/-



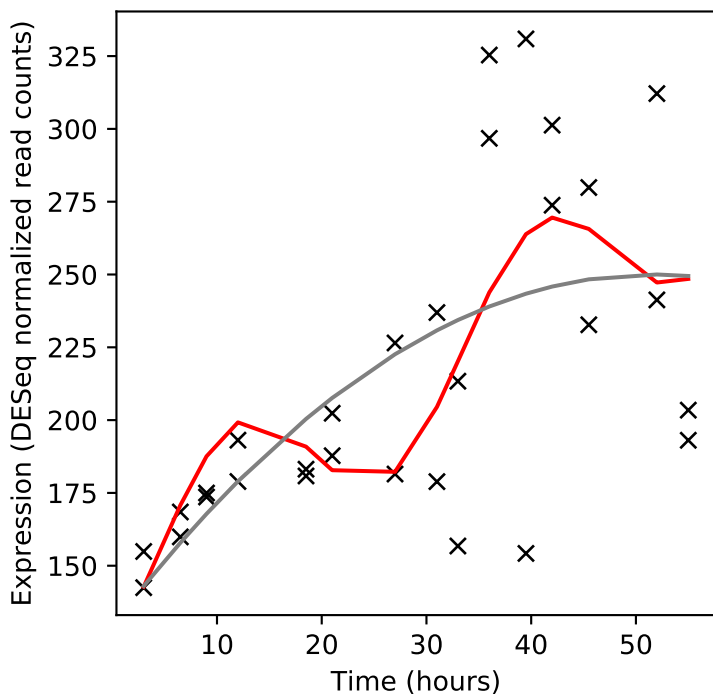
Rv2894c/xerC



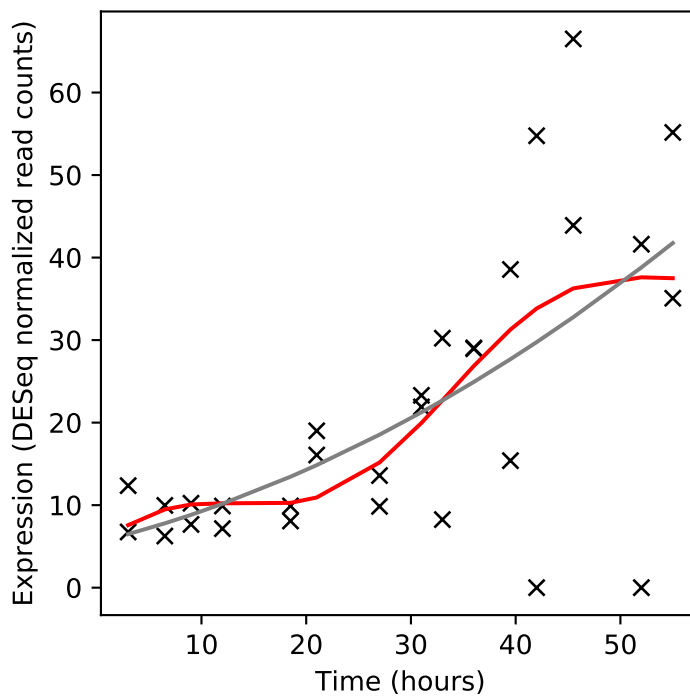
Rv2895c/viuB



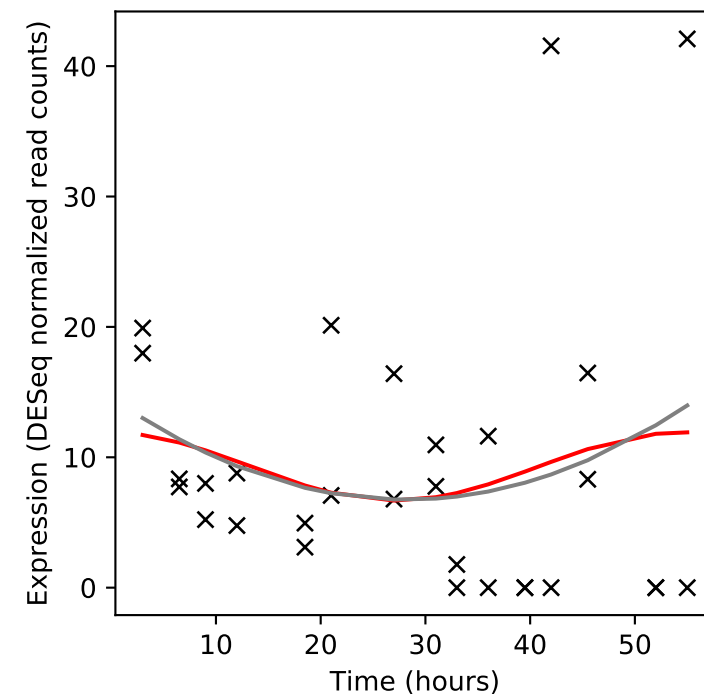
Rv2896c/-



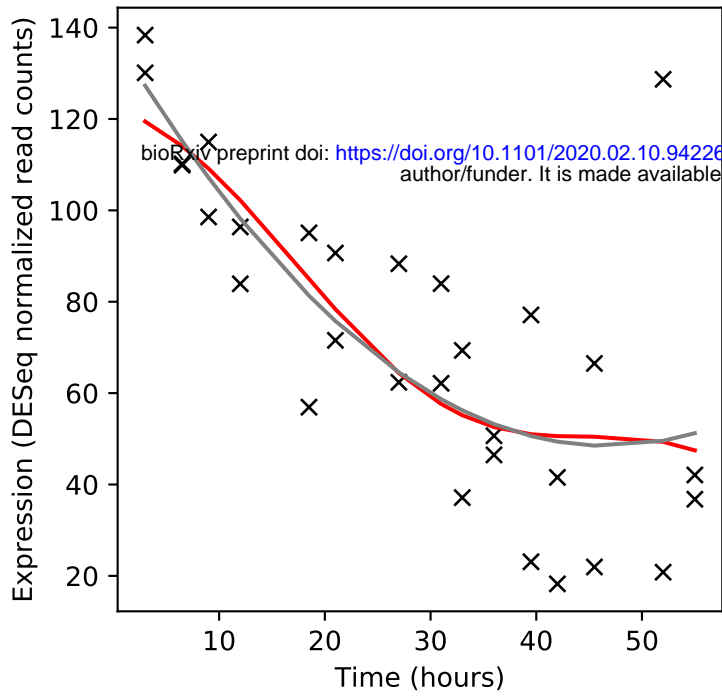
Rv2897c/-



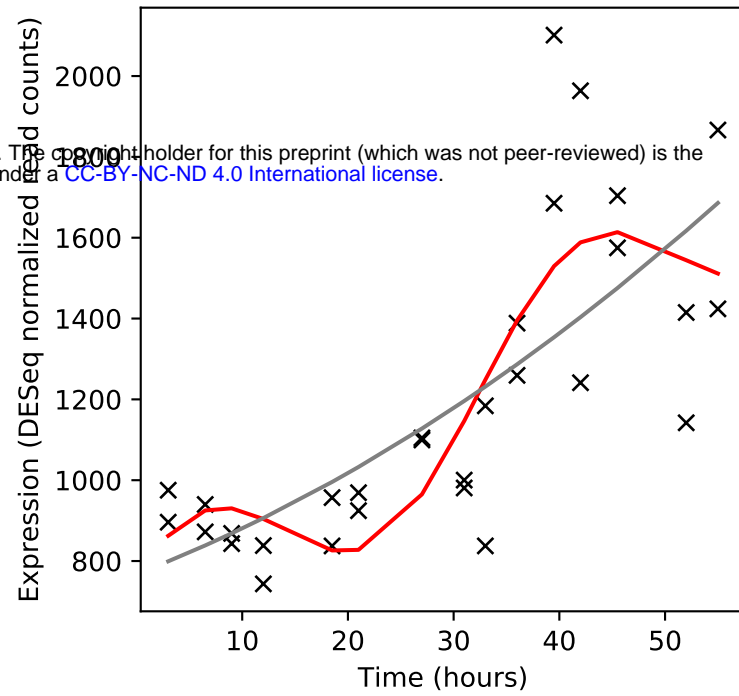
Rv2898c/-



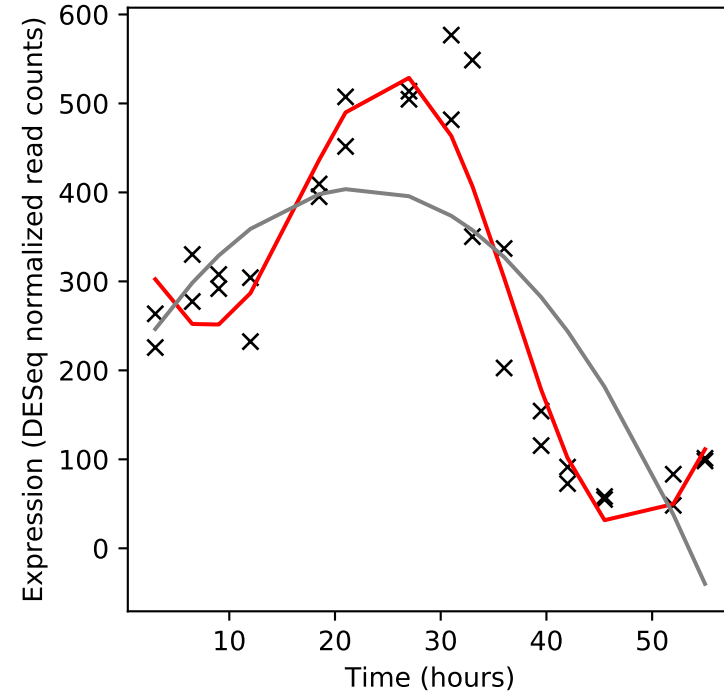
Rv2899c/fdhD



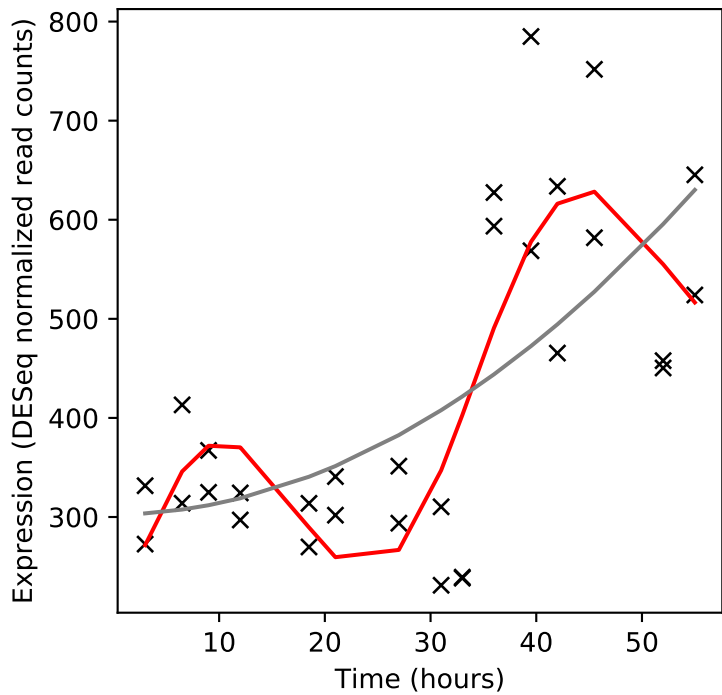
Rv2900c/fdhF



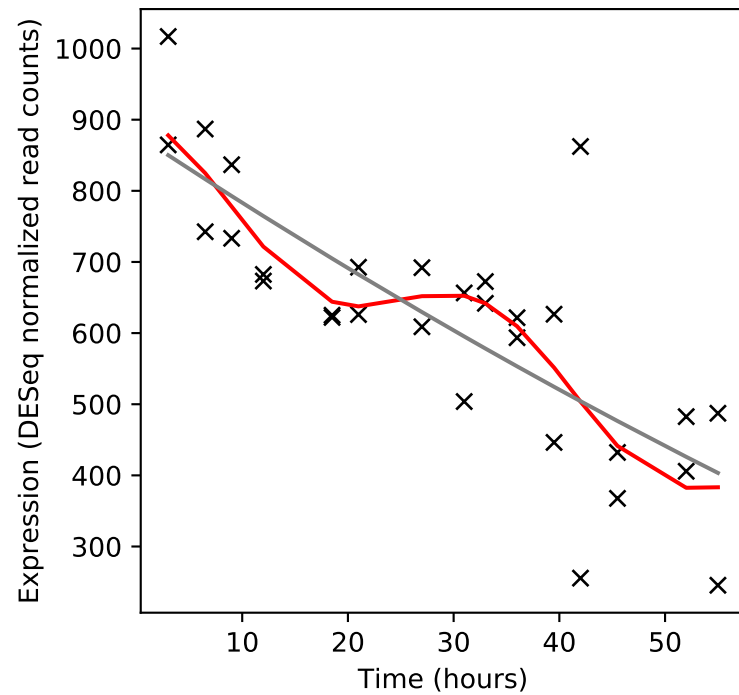
Rv2901c/-



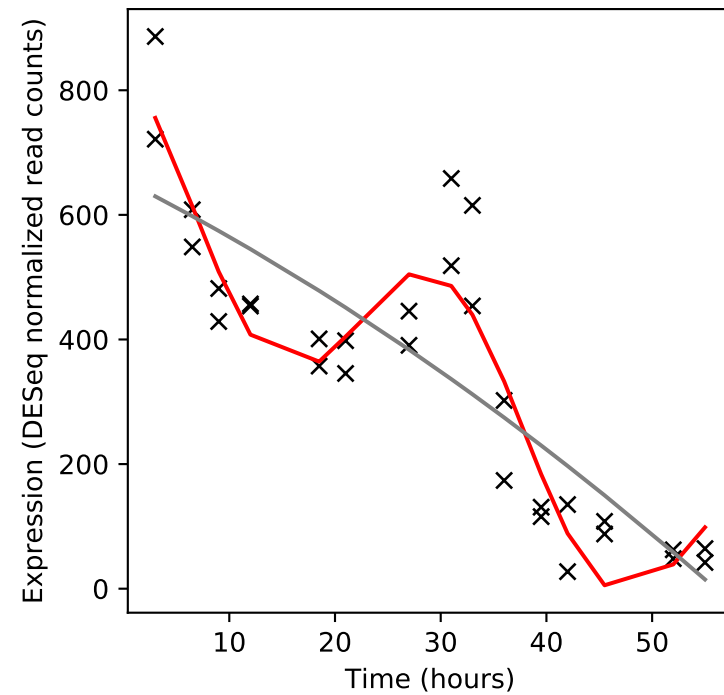
Rv2902c/rnhB



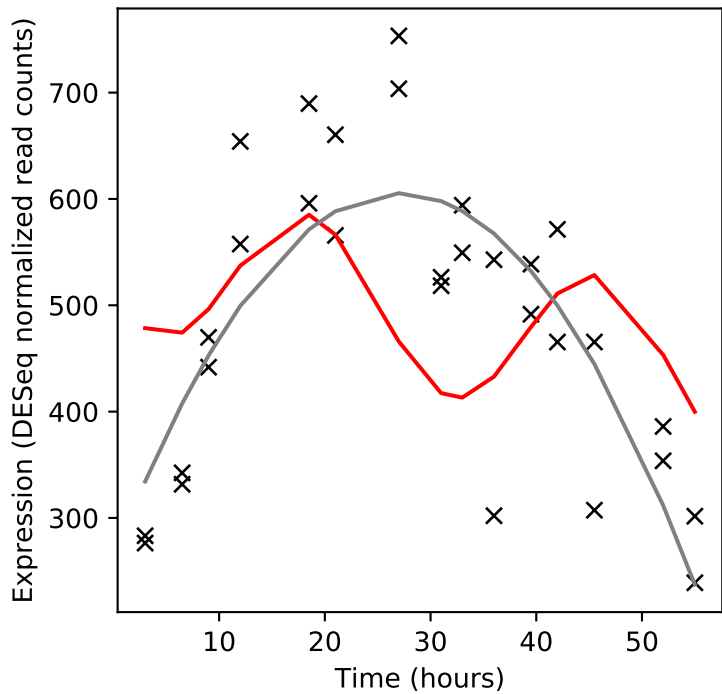
Rv2903c/lepB



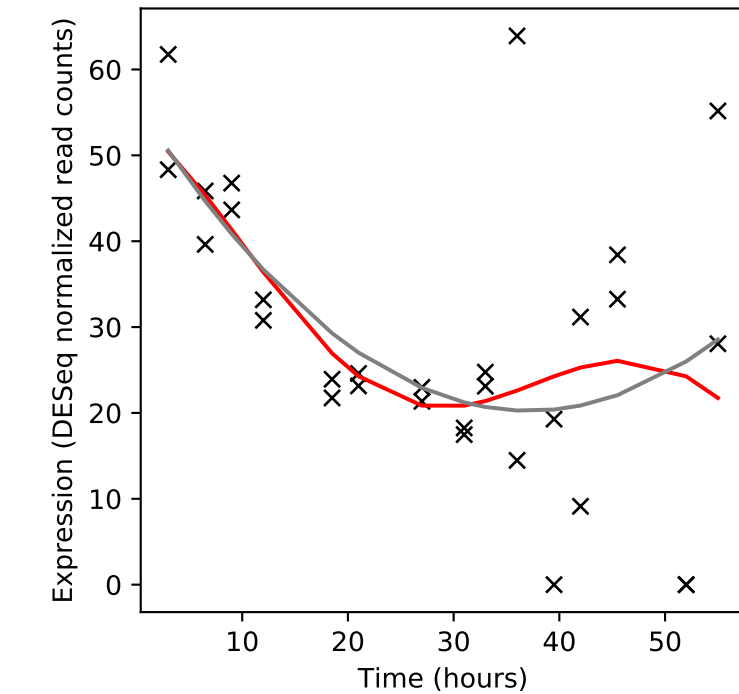
Rv2904c/rplS



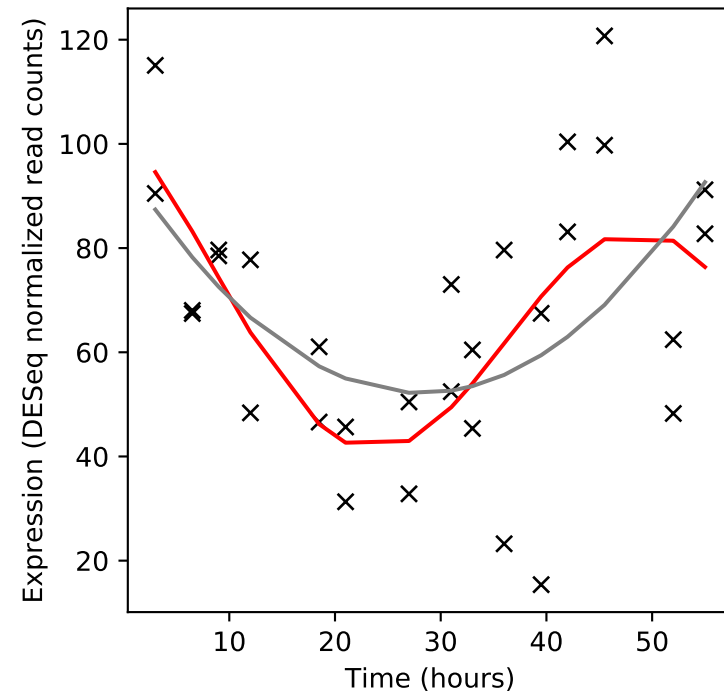
Rv2905/lppW



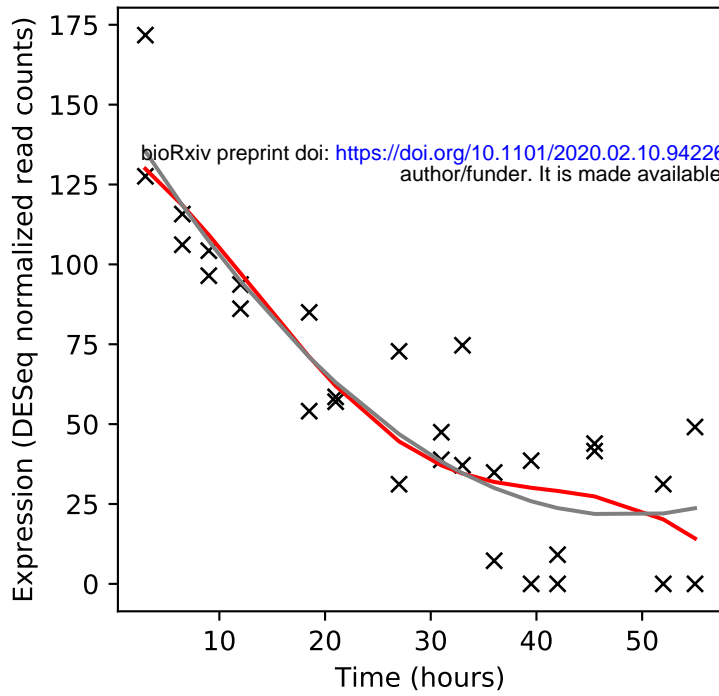
Rv2906c/trmD



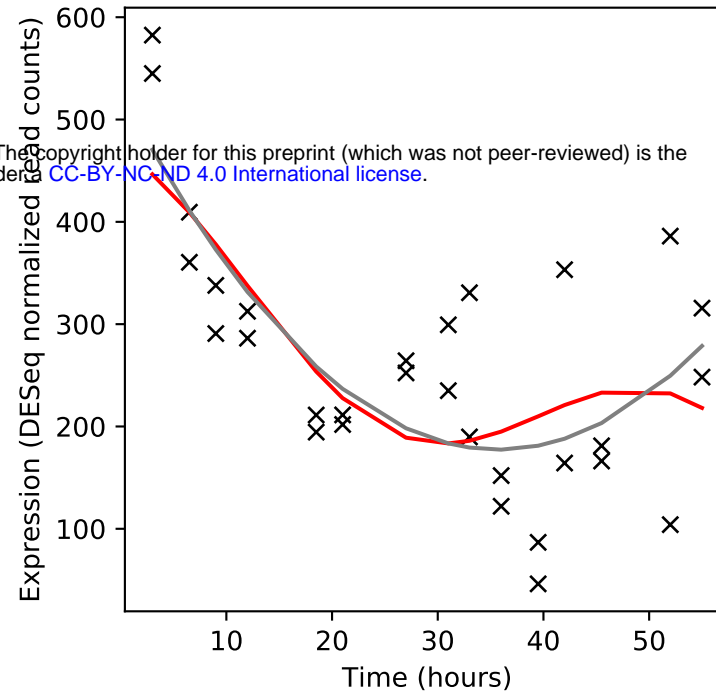
Rv2907c/rimM



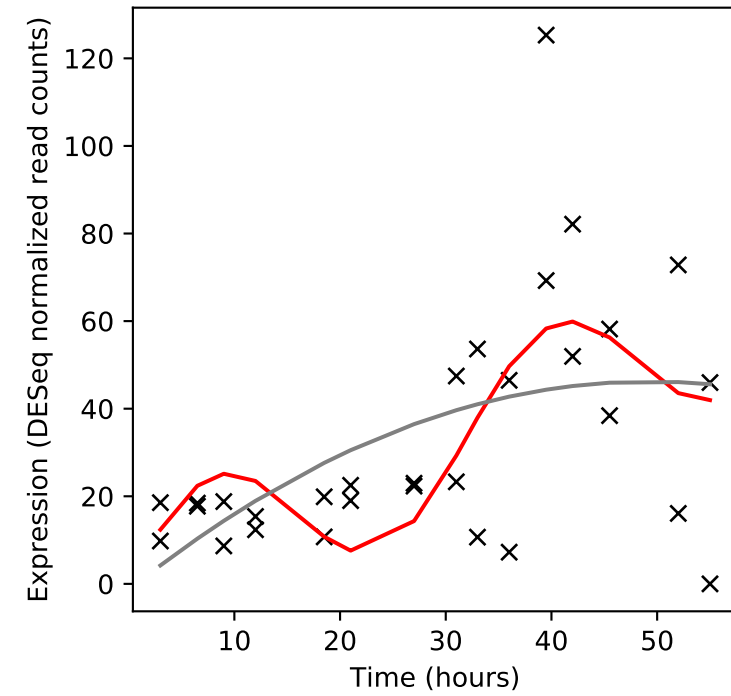
Rv2908c/-



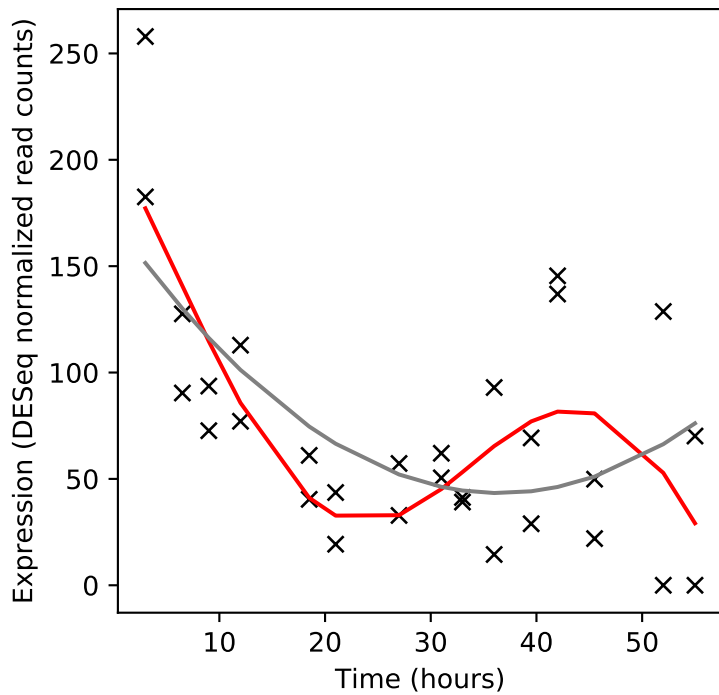
Rv2909c/rpsP



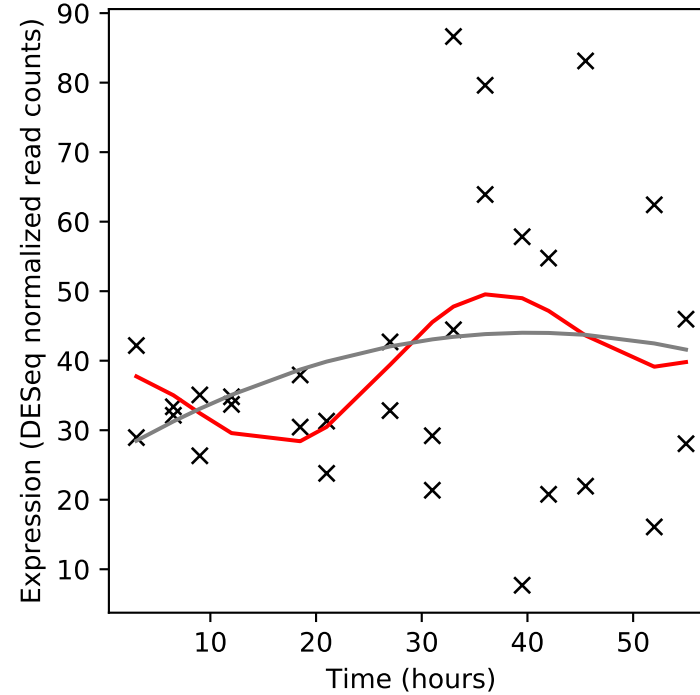
Rv2910c/-



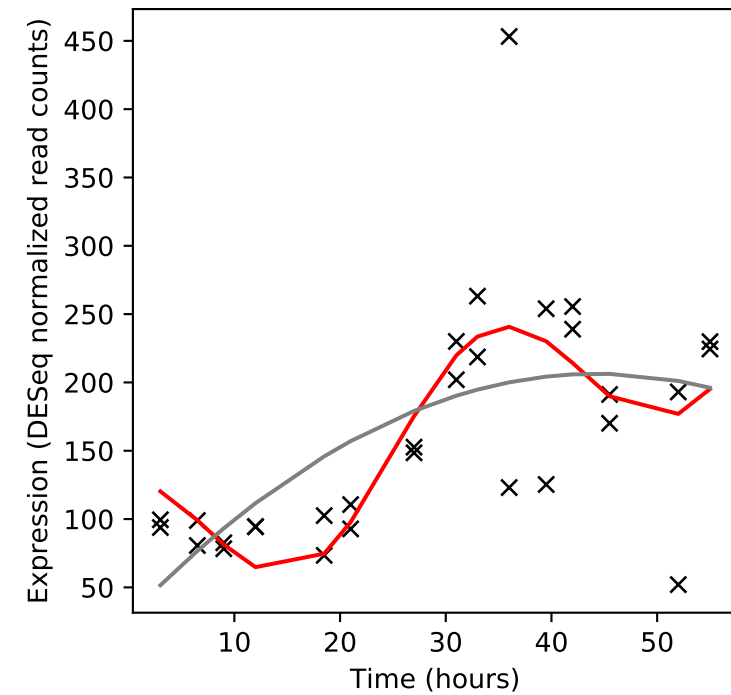
Rv2911/dacB2



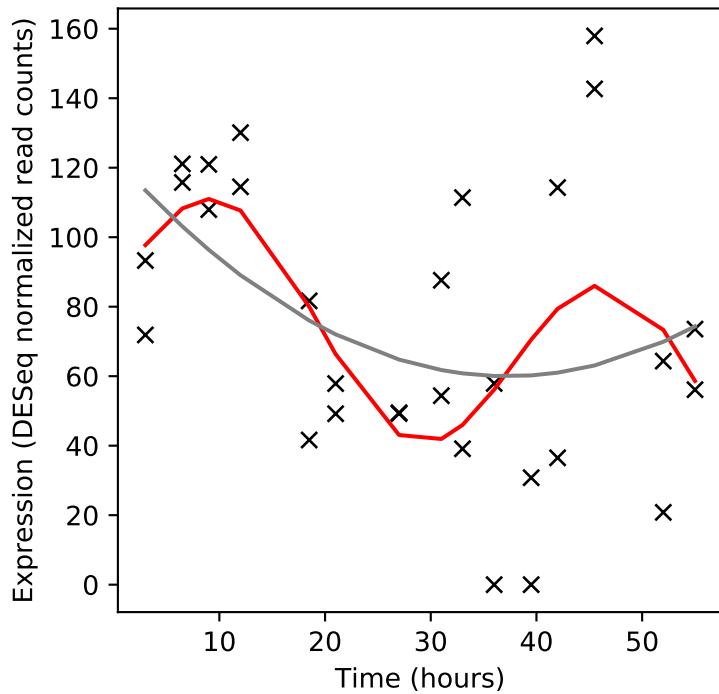
Rv2912c/-



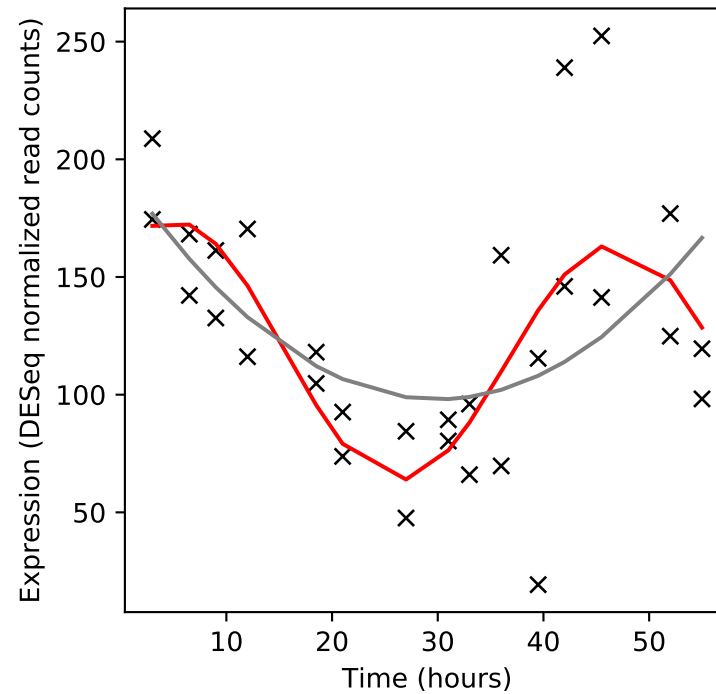
Rv2913c/-



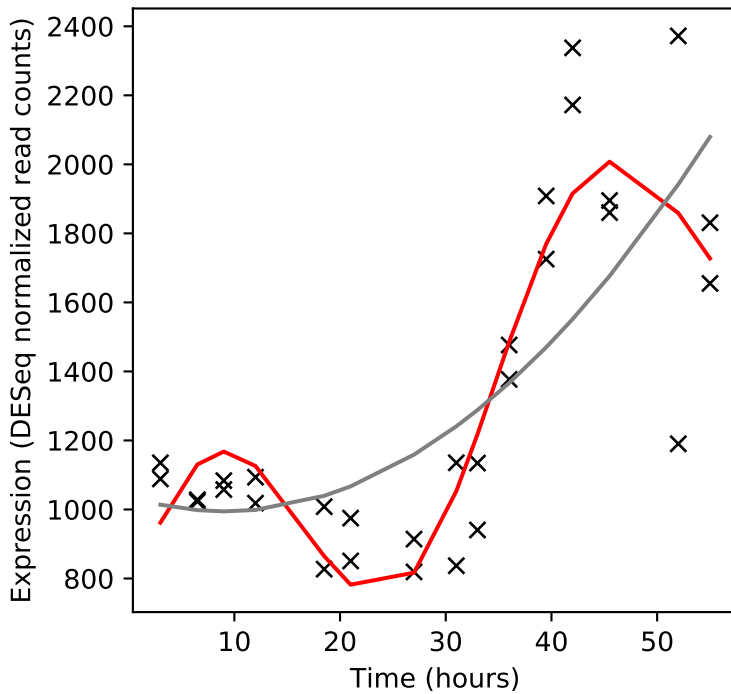
Rv2914c/pknl



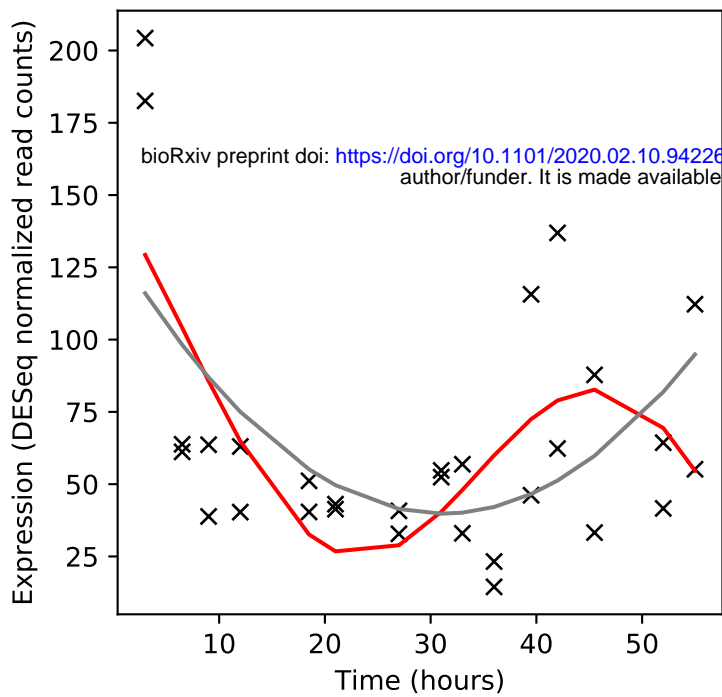
Rv2915c/-



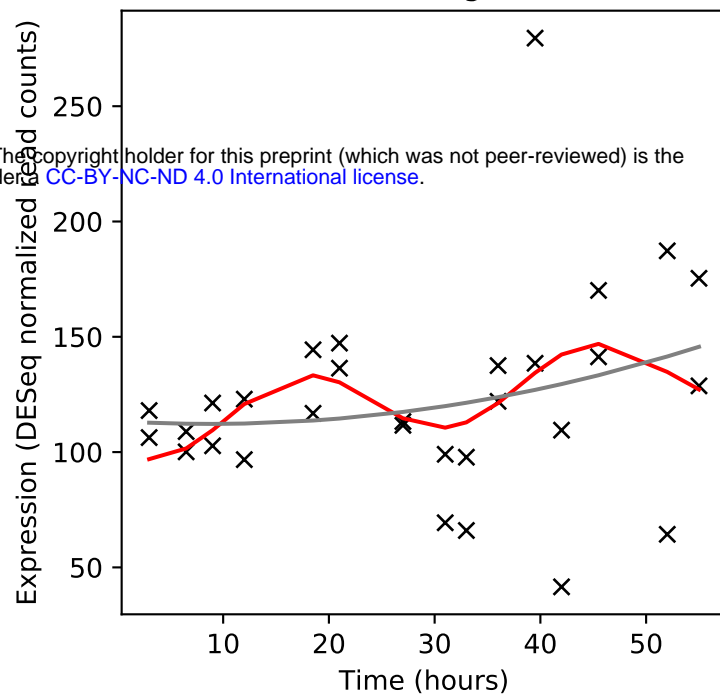
Rv2916c/ffh



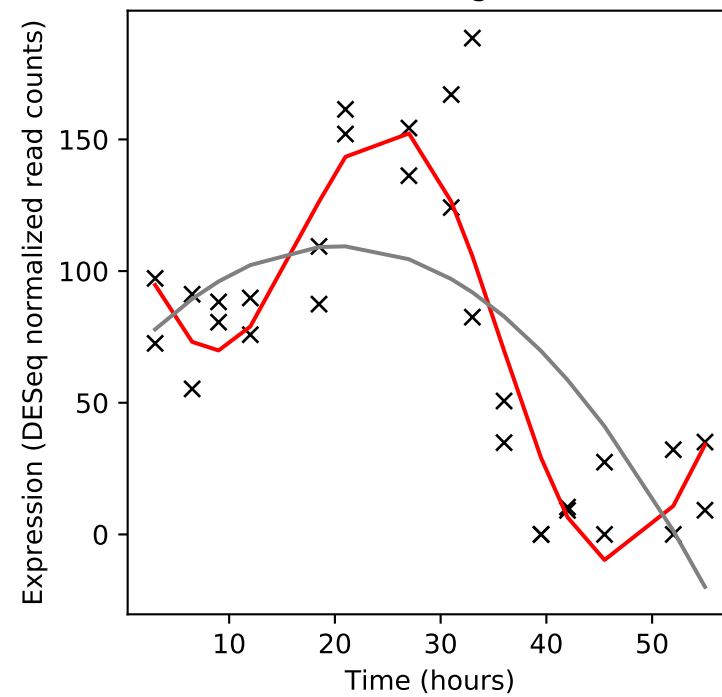
Rv2917/-



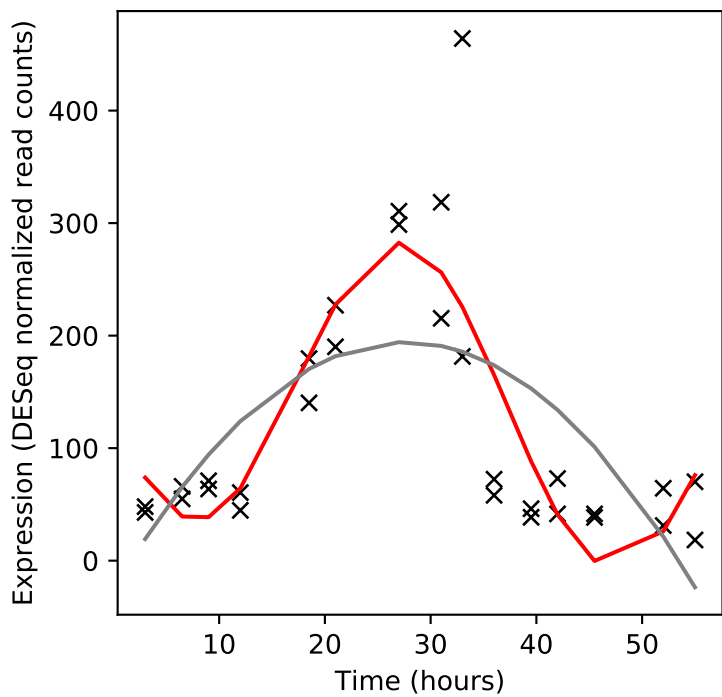
Rv2918c/glnD



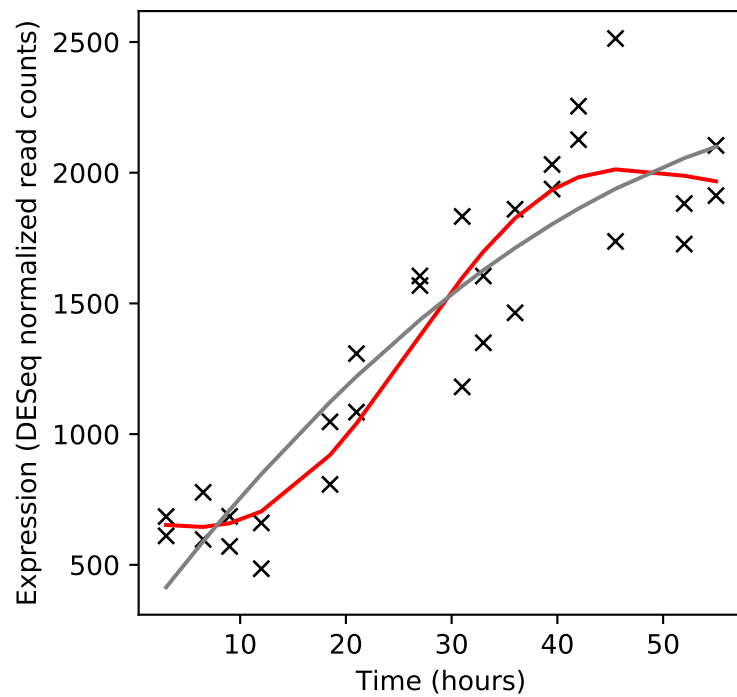
Rv2919c/glnB



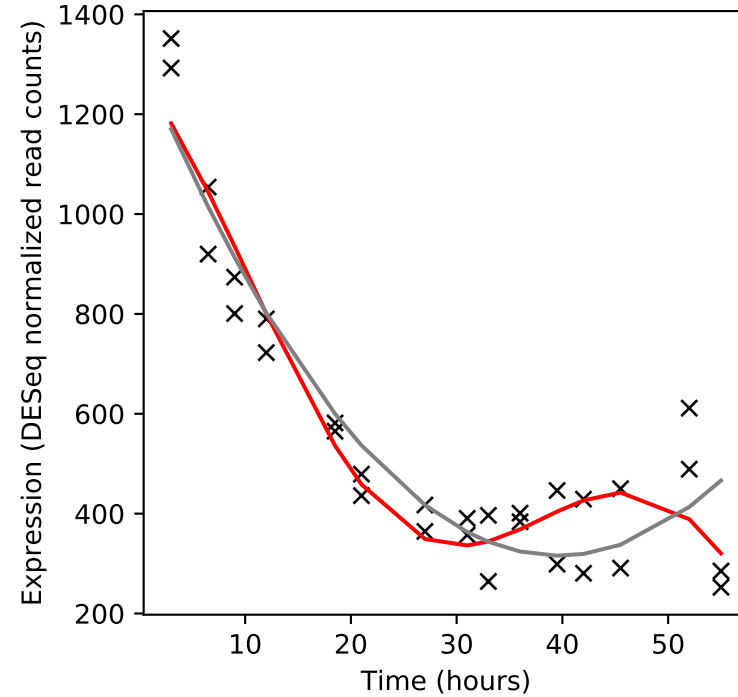
Rv2920c/amt



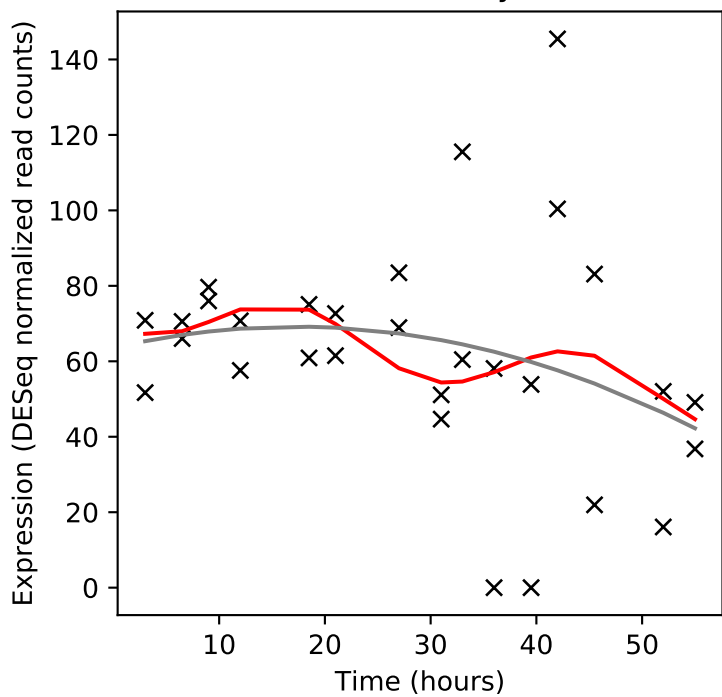
Rv2921c/ftsY



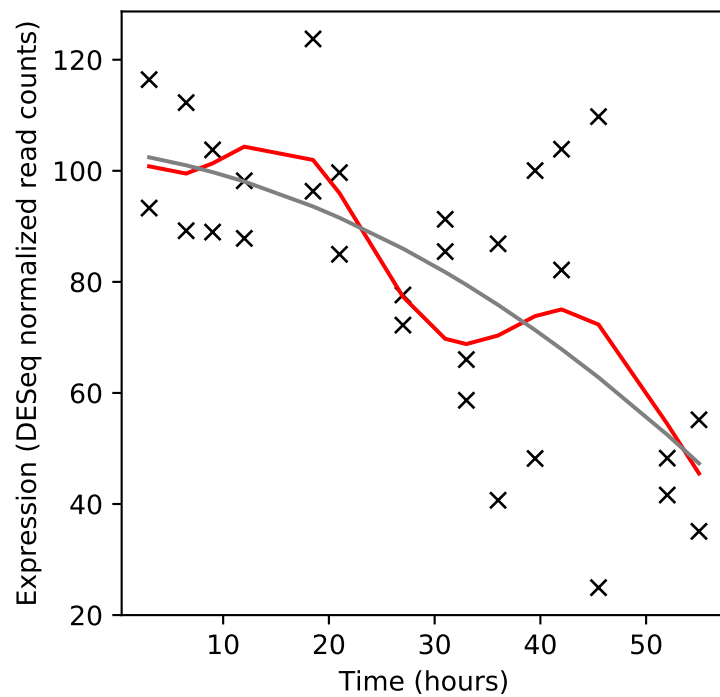
Rv2922c/smc



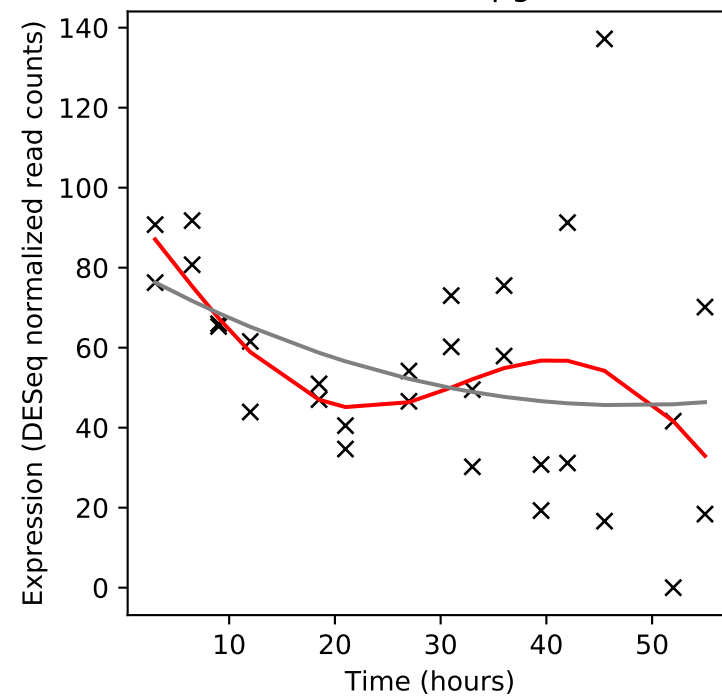
Rv2922A/acyP



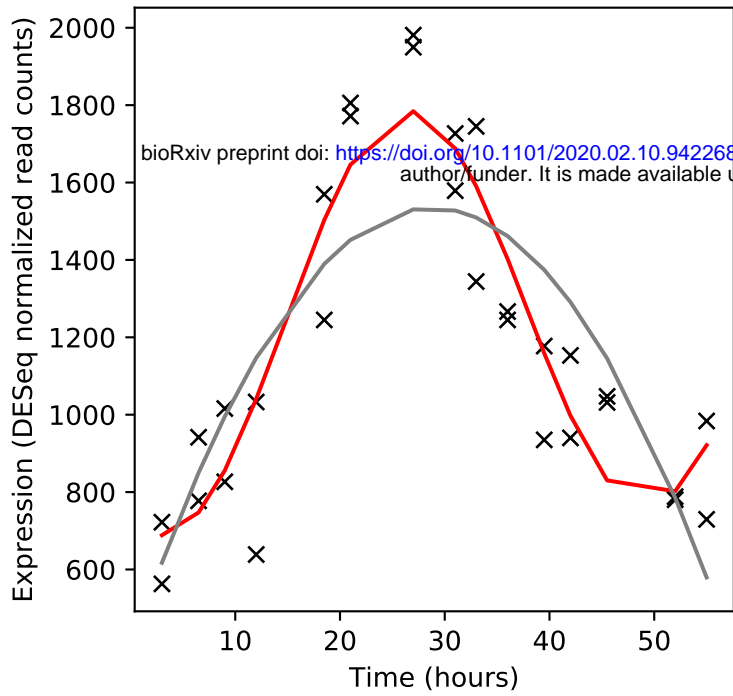
Rv2923c/-



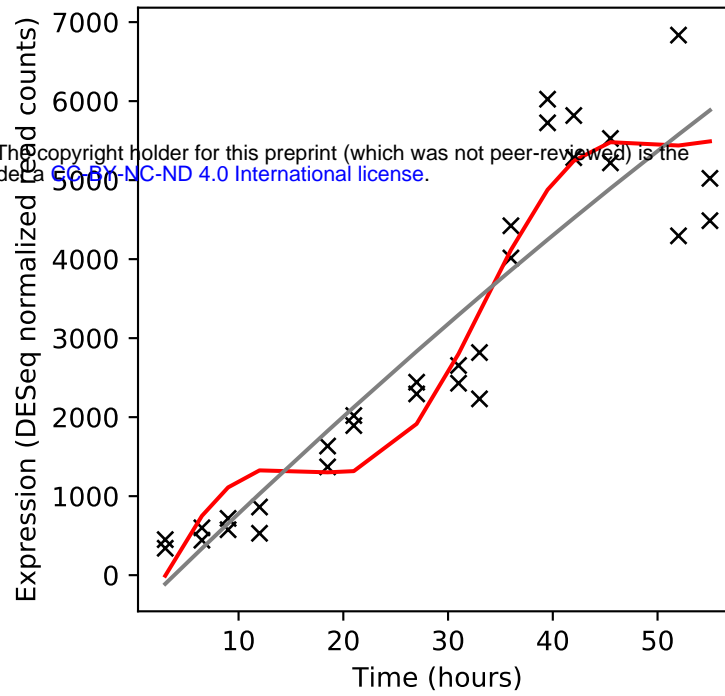
Rv2924c/fpg



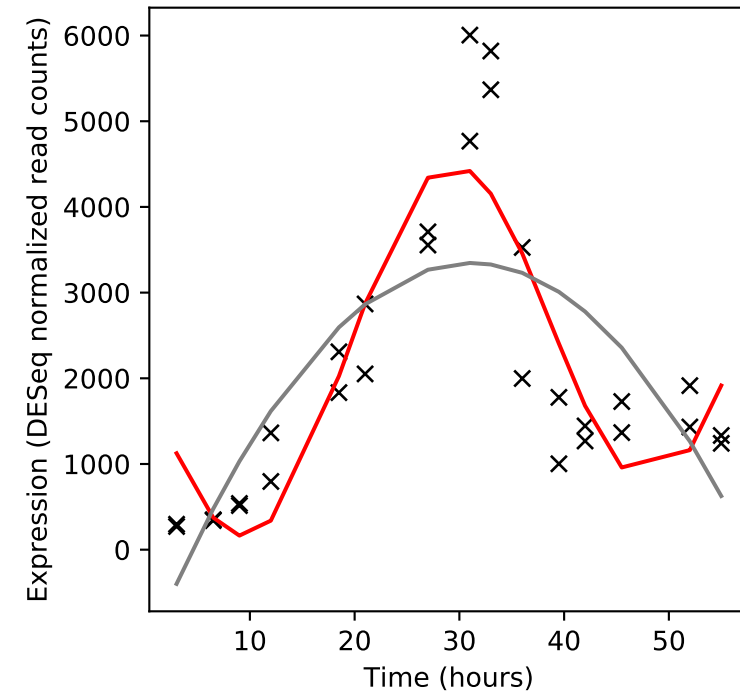
Rv2925c/rnc



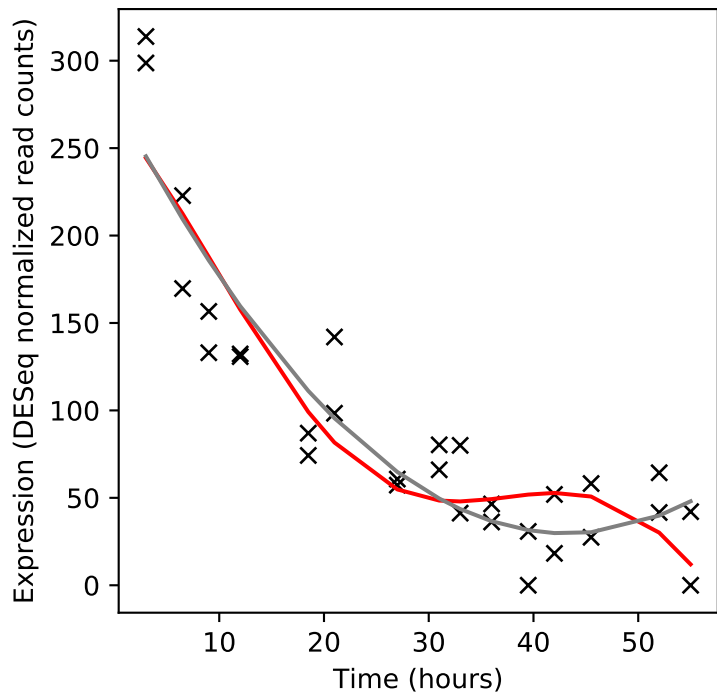
Rv2926c/-



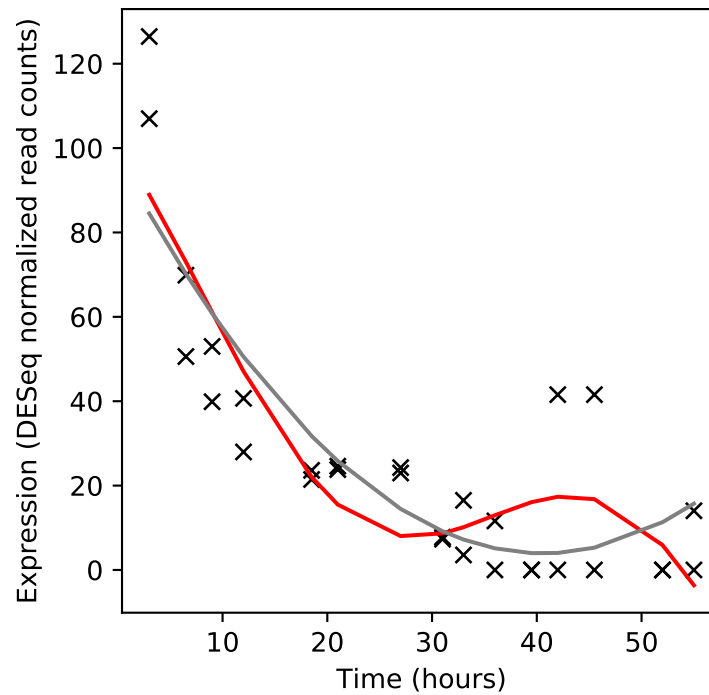
Rv2927c/-



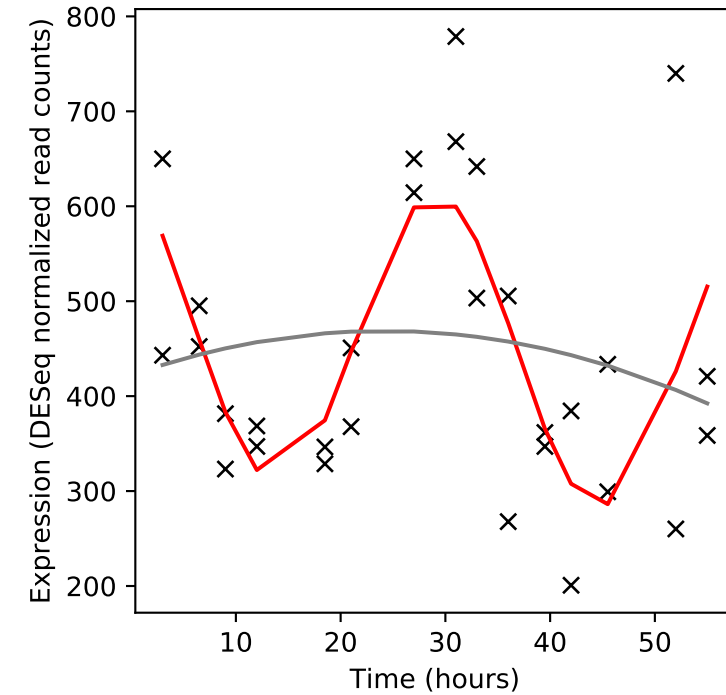
Rv2928/tesA



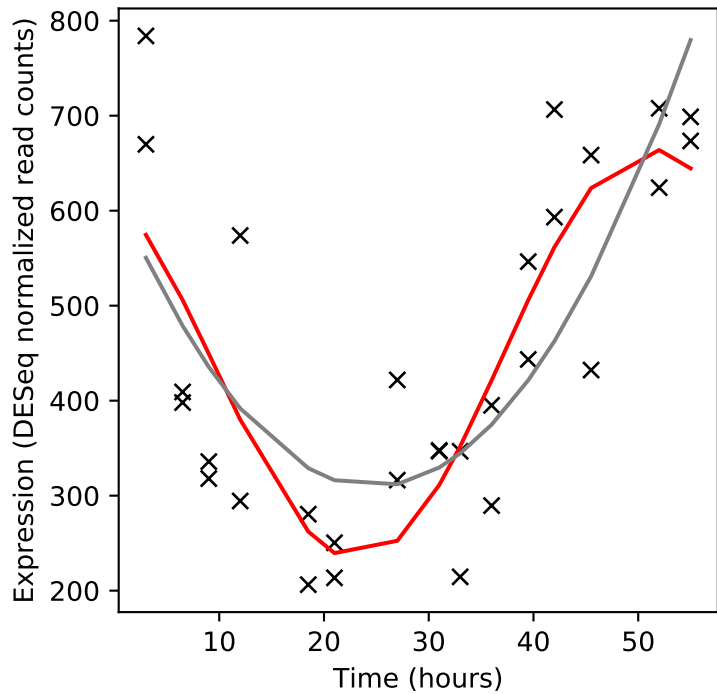
Rv2929/-



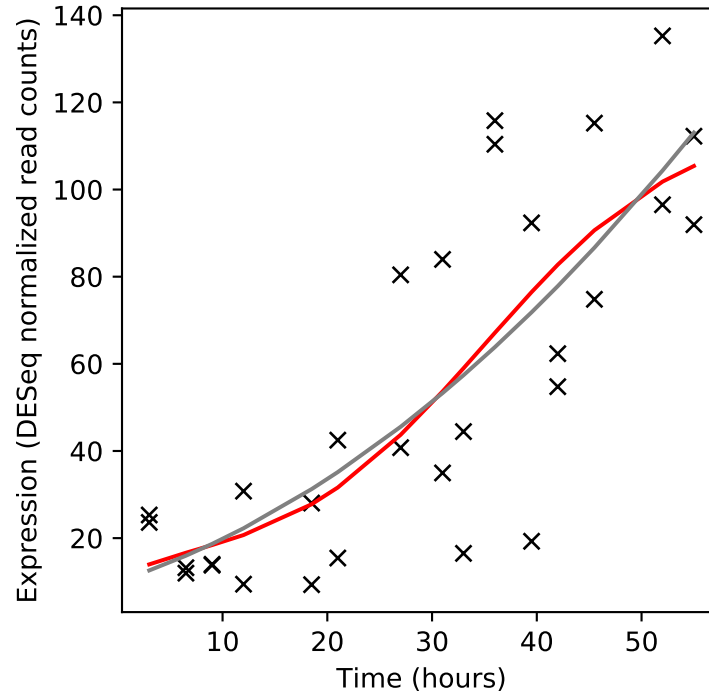
Rv2930/fadD26



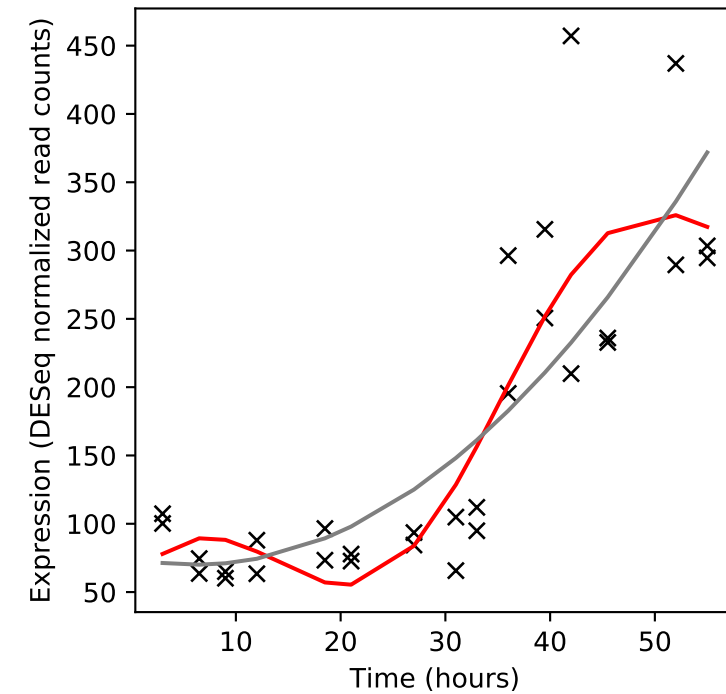
Rv2931/ppsA



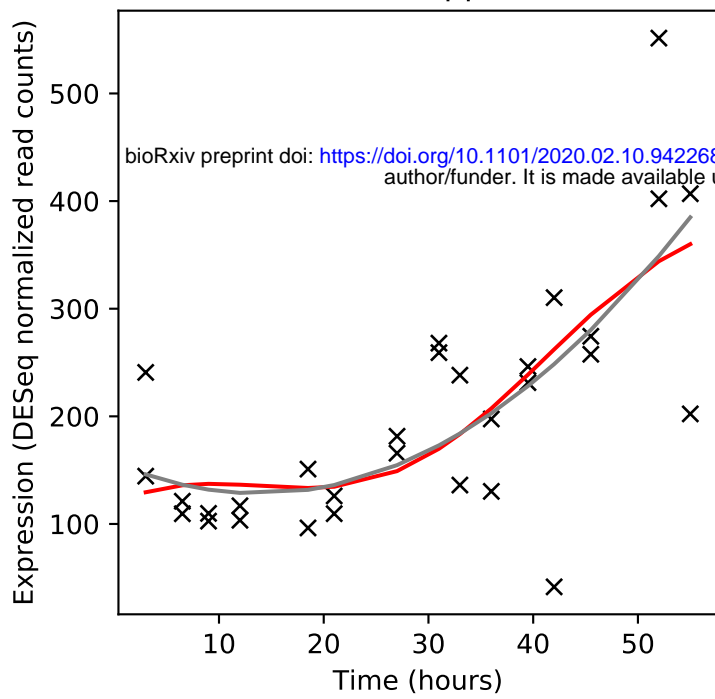
Rv2932/ppsB



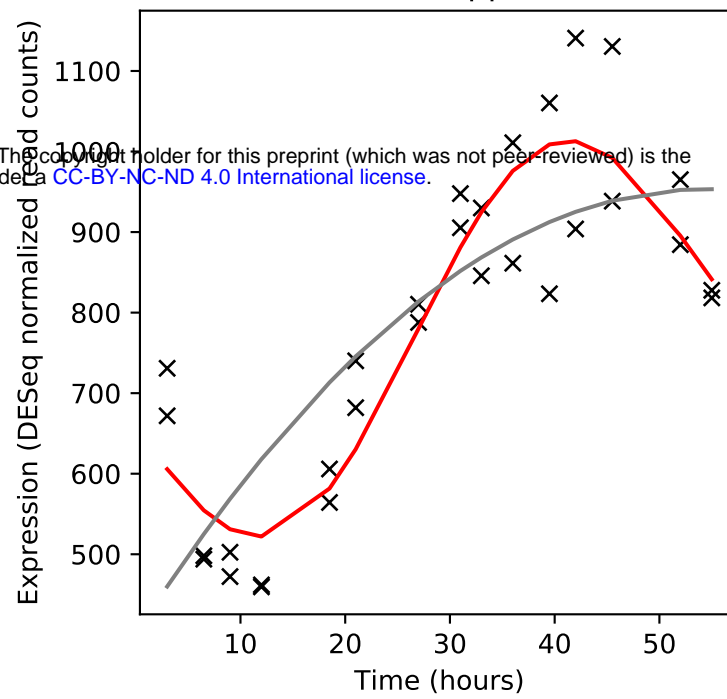
Rv2933/ppsC



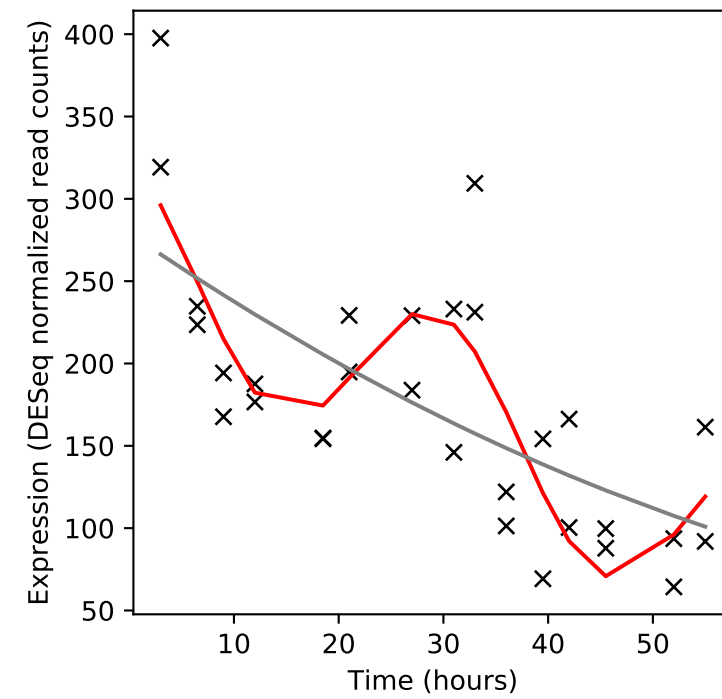
Rv2934/ppsD



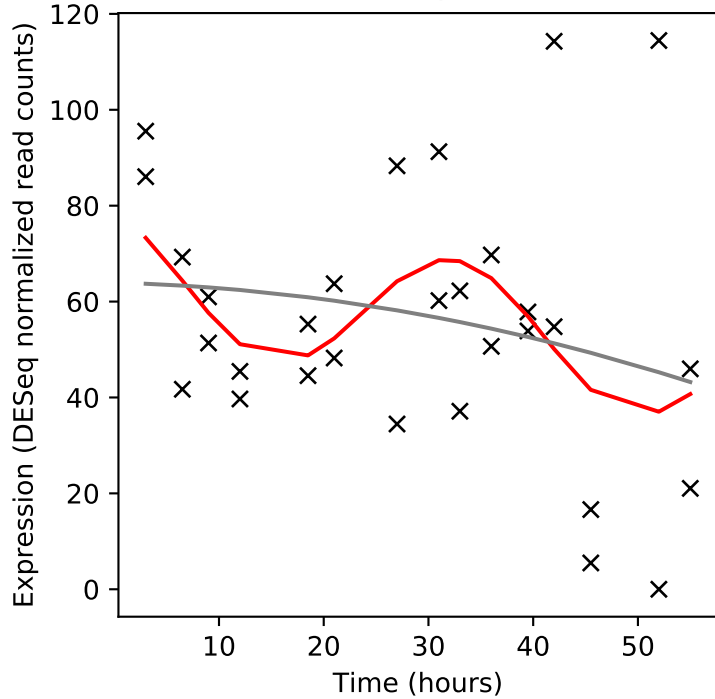
Rv2935/ppsE



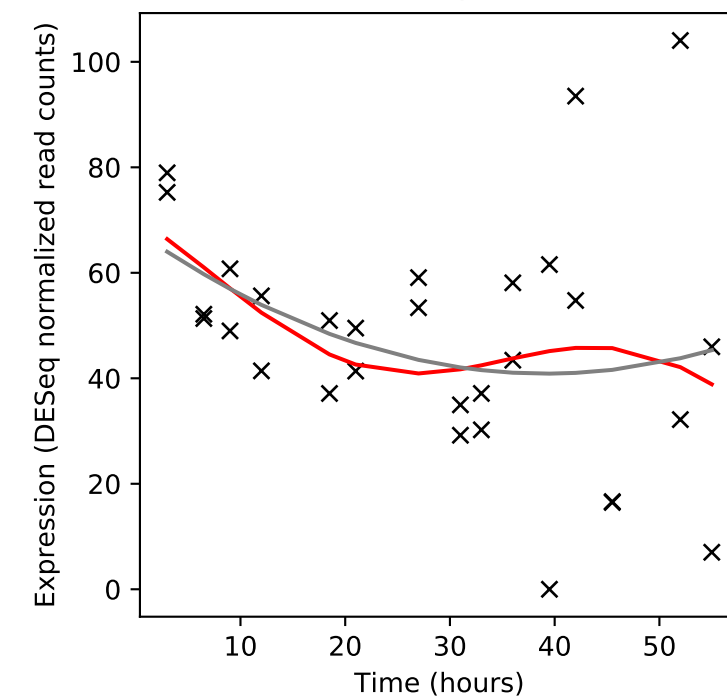
Rv2936/drrA



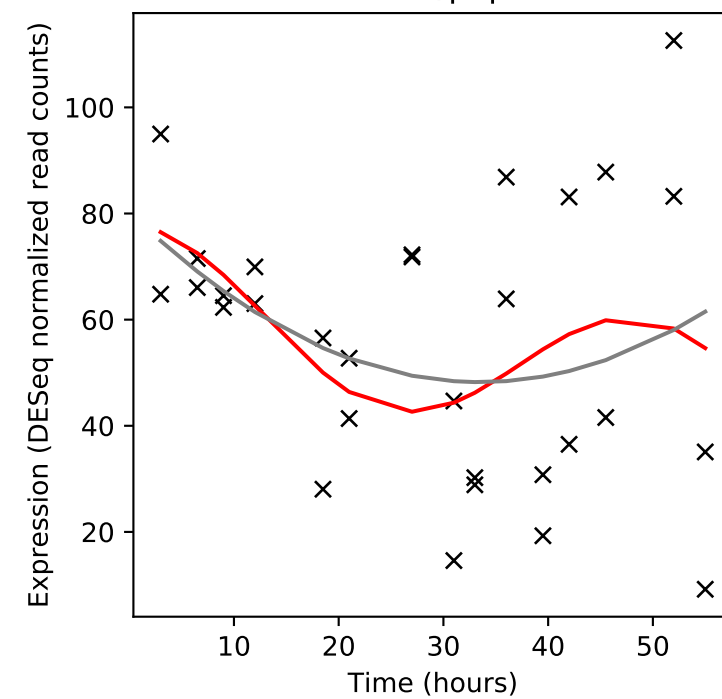
Rv2937/drrB



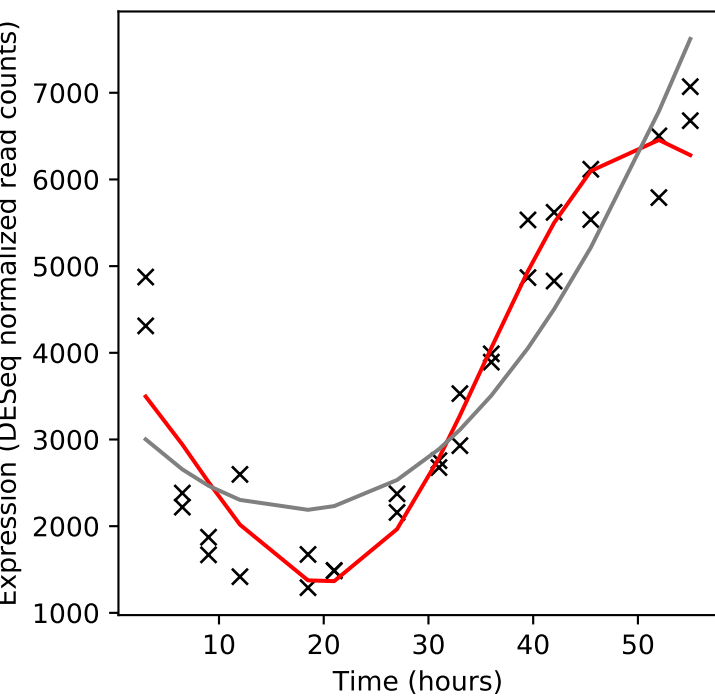
Rv2938/drrC



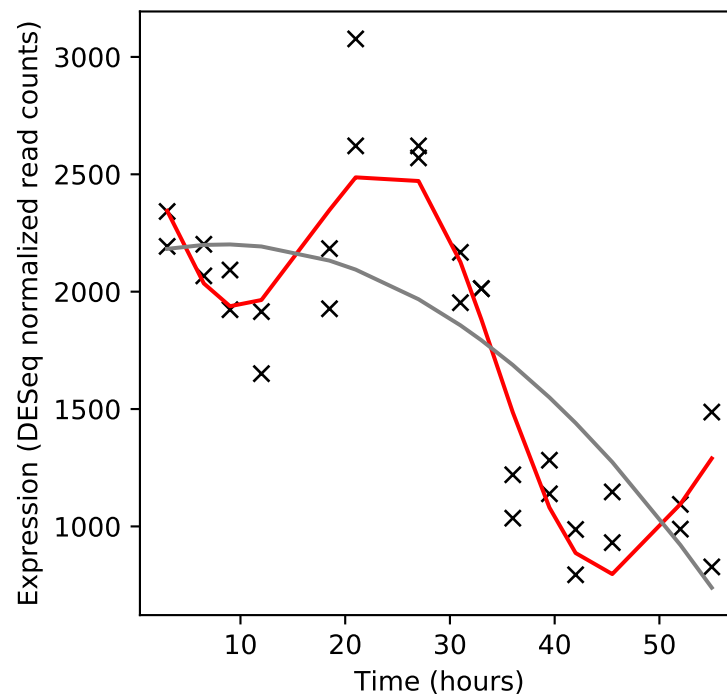
Rv2939/papA5



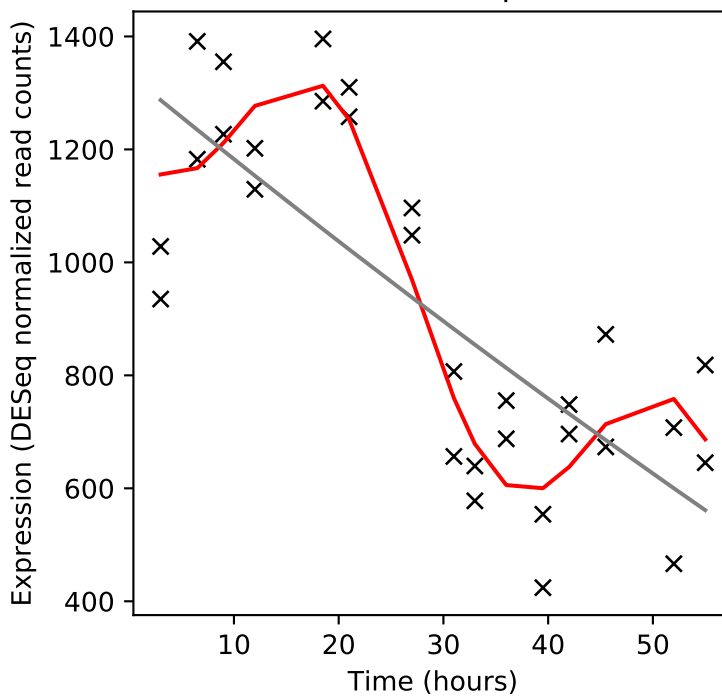
Rv2940c/mas



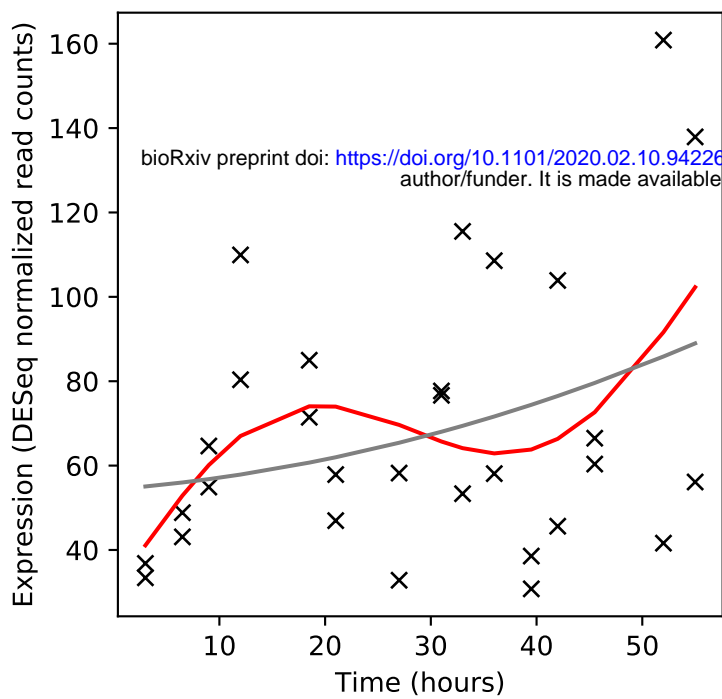
Rv2941/fadD28



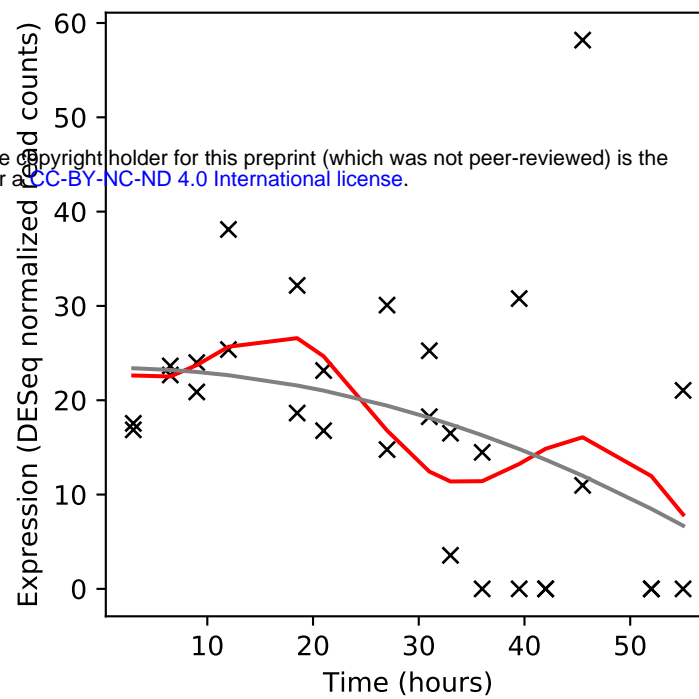
Rv2942/mmpL7



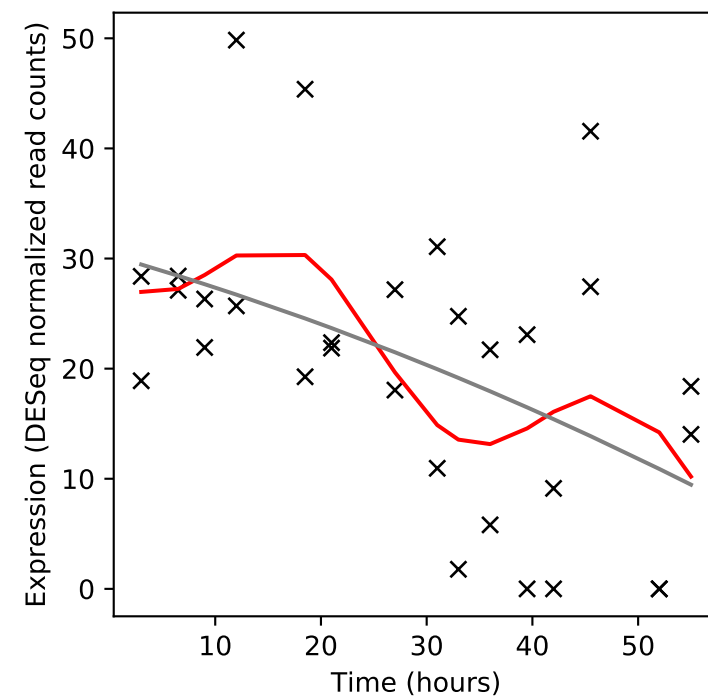
Rv2943/-



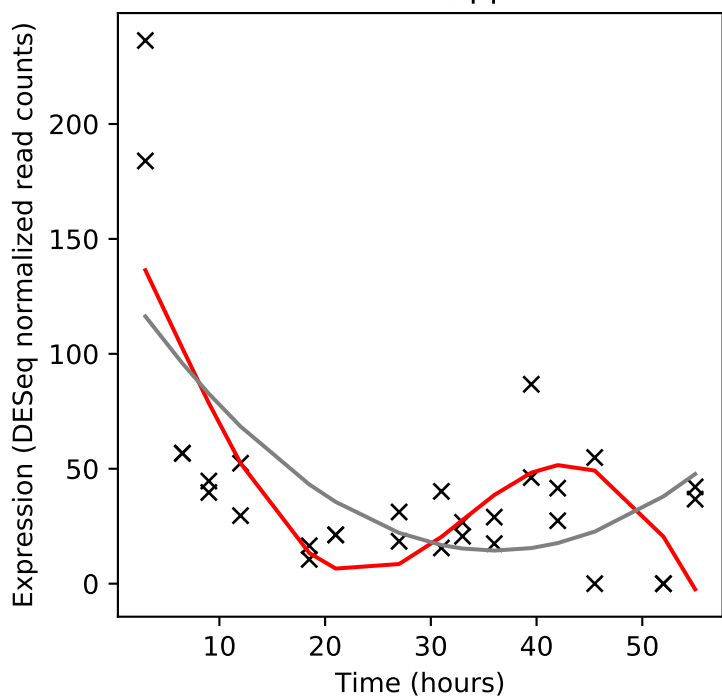
Rv2943A/-



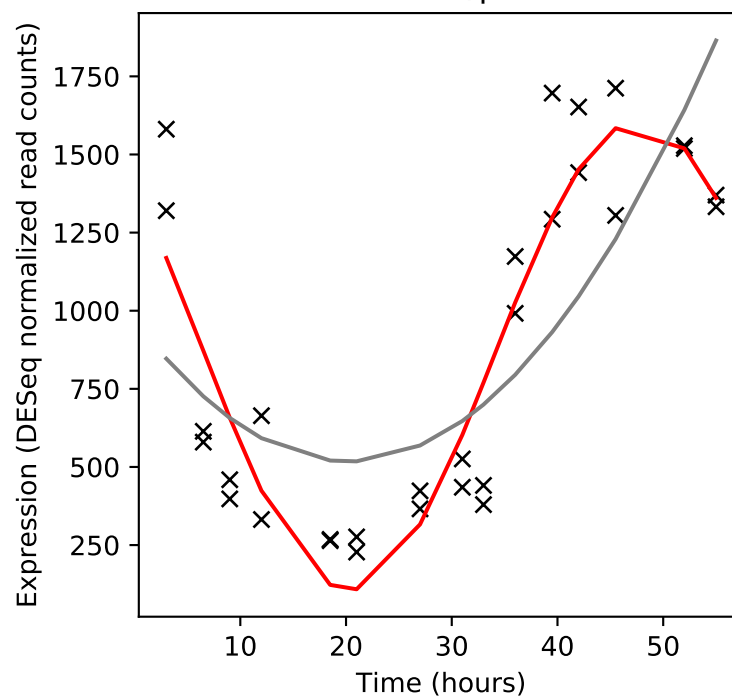
Rv2944/-



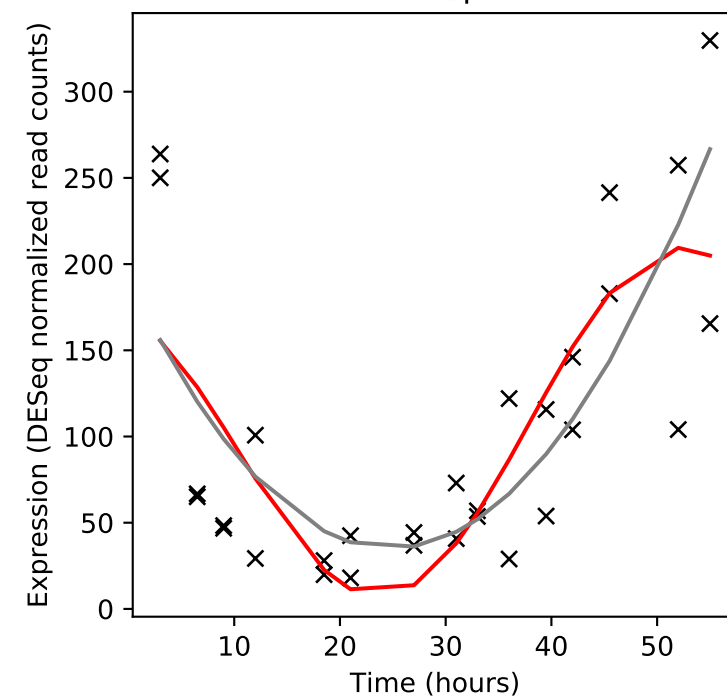
Rv2945c/lppX



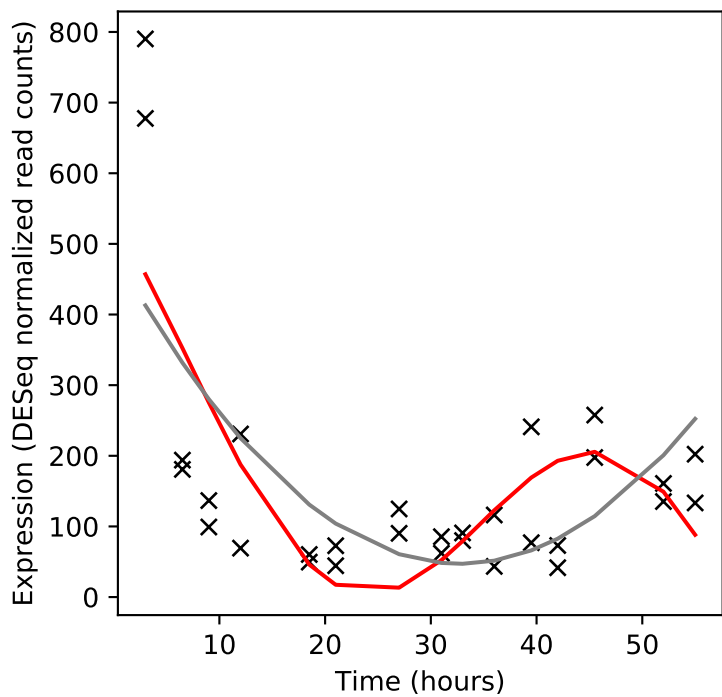
Rv2946c/pks1



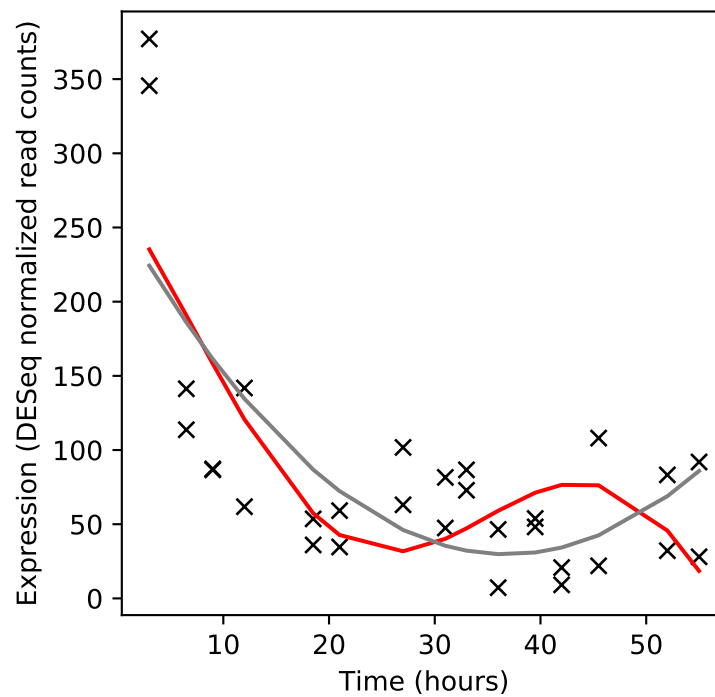
Rv2947c/pks15



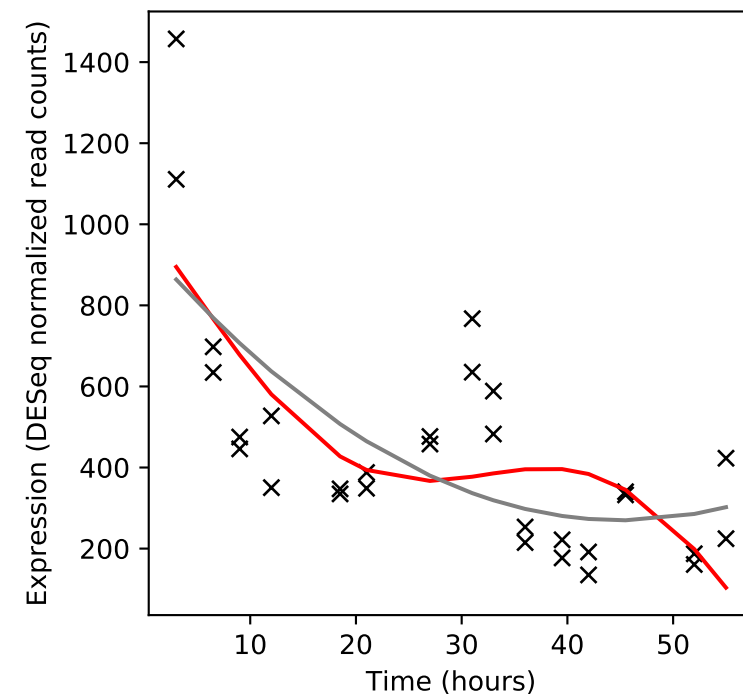
Rv2948c/fadD22



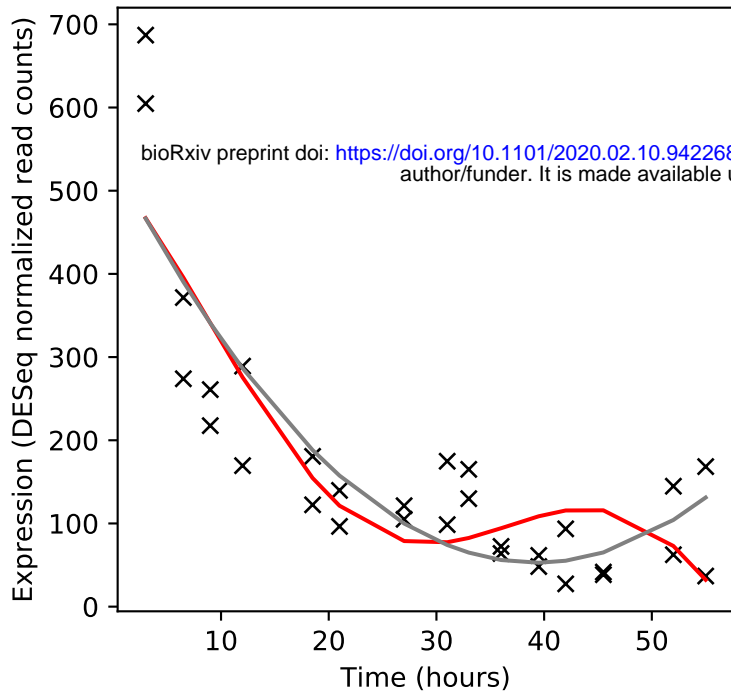
Rv2949c/-



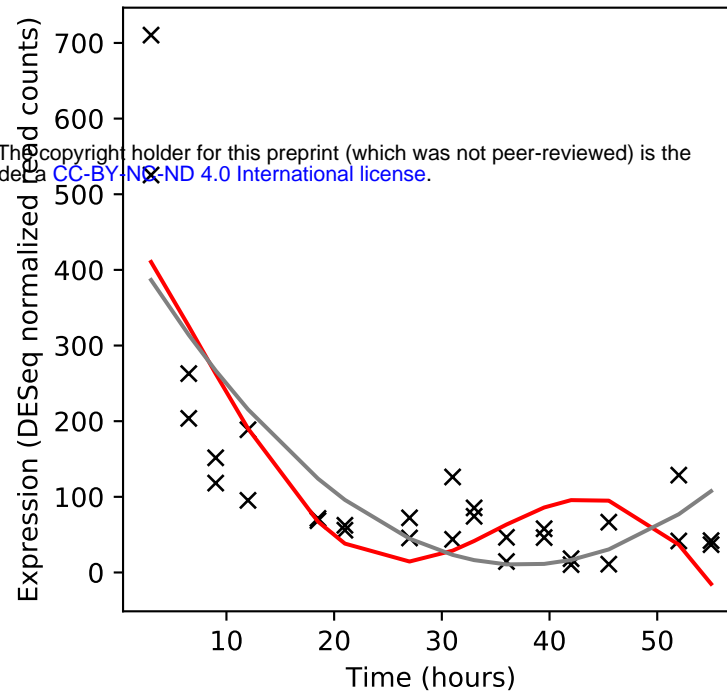
Rv2950c/fadD29



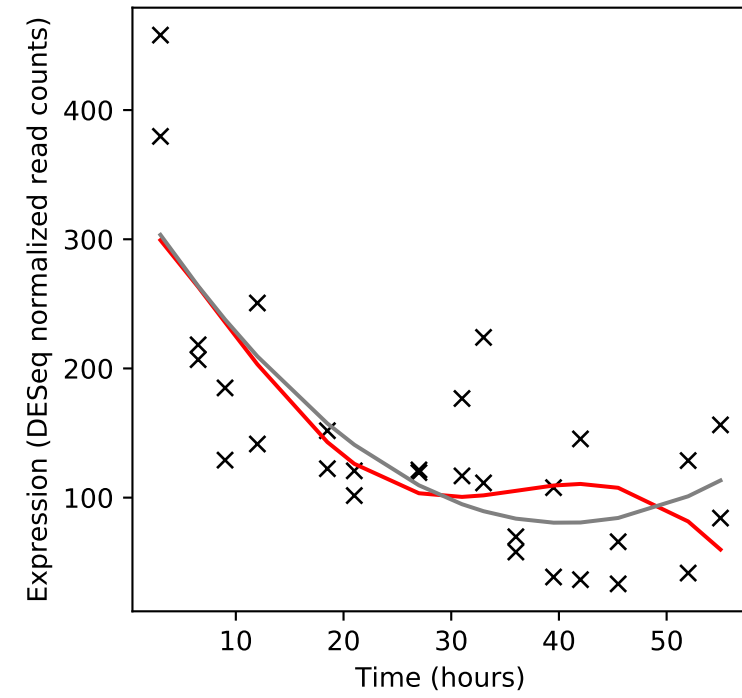
Rv2951c/-



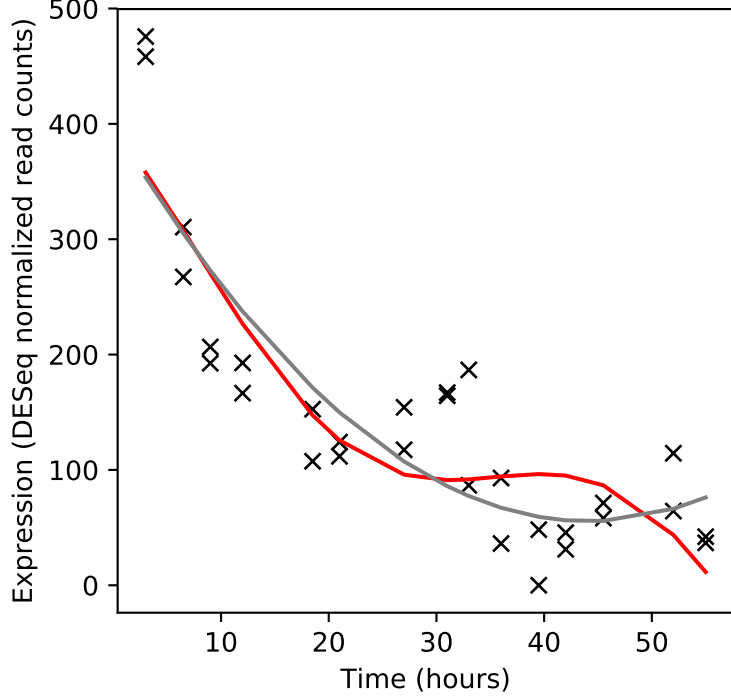
Rv2952/-



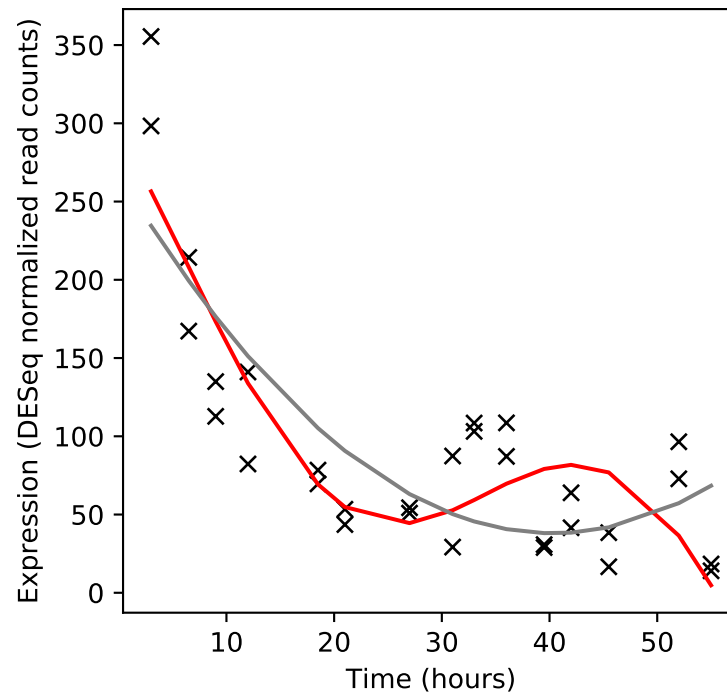
Rv2953/-



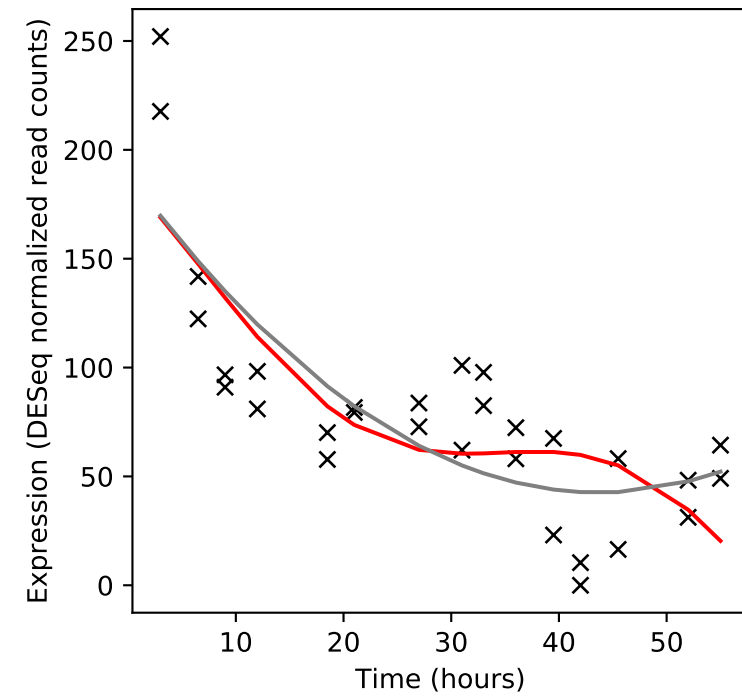
Rv2954c/-



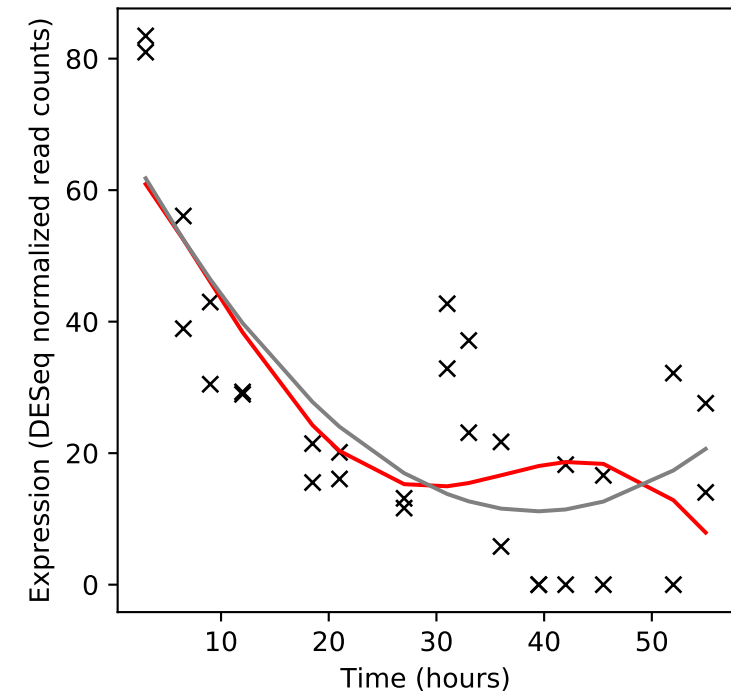
Rv2955c/-



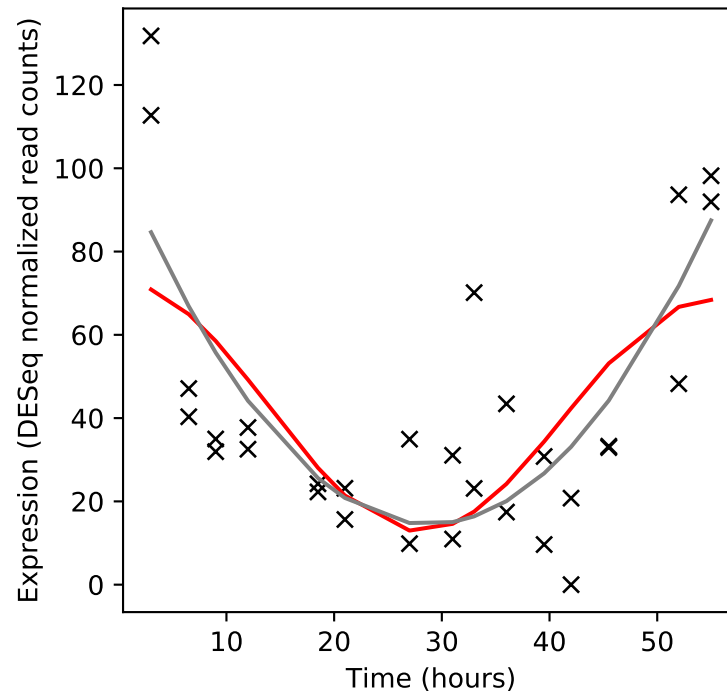
Rv2956/-



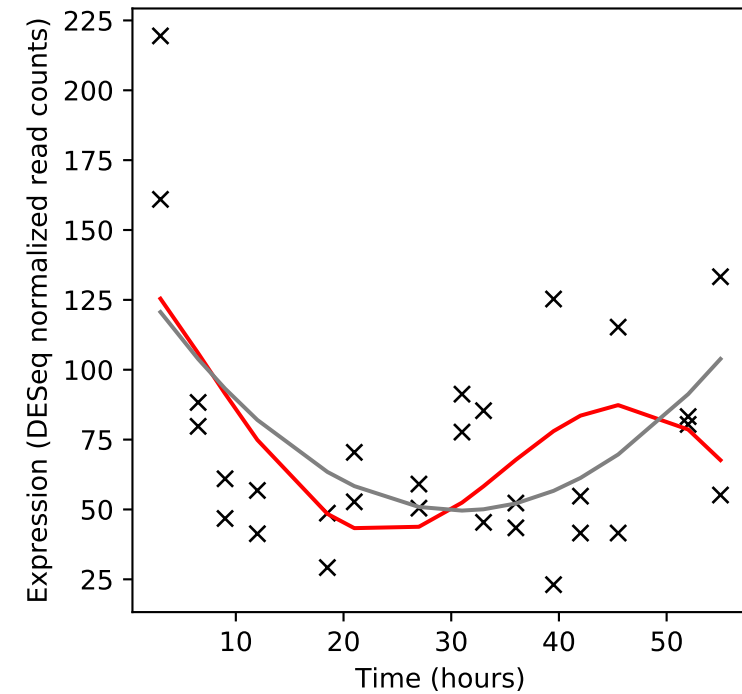
Rv2957/-



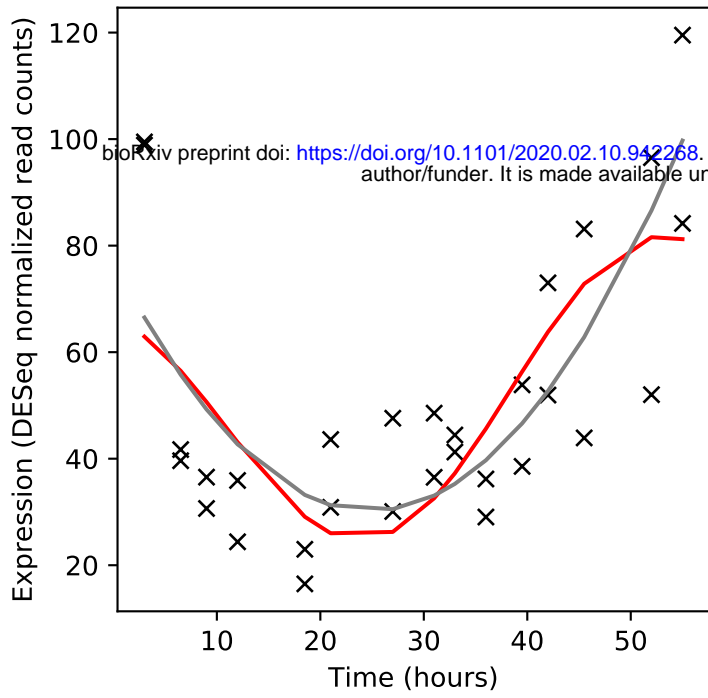
Rv2958c/-



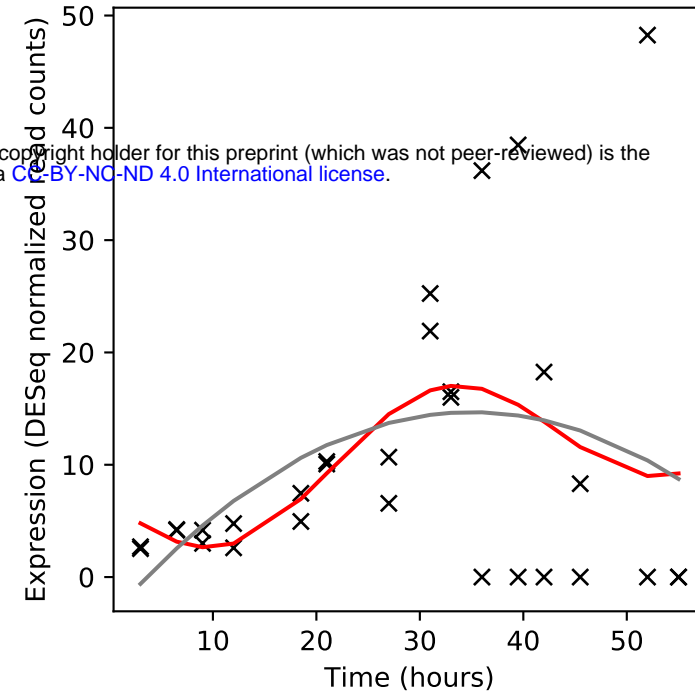
Rv2959c/-



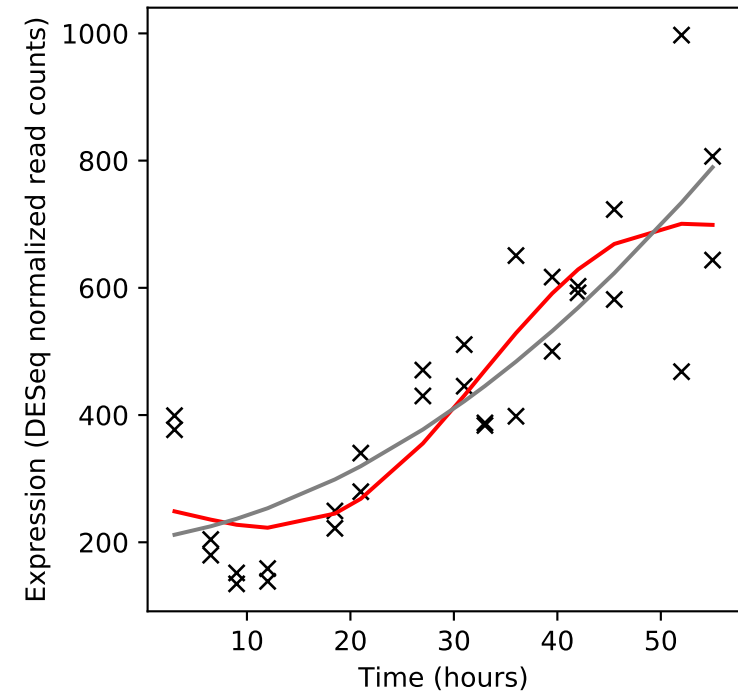
Rv2960c/-



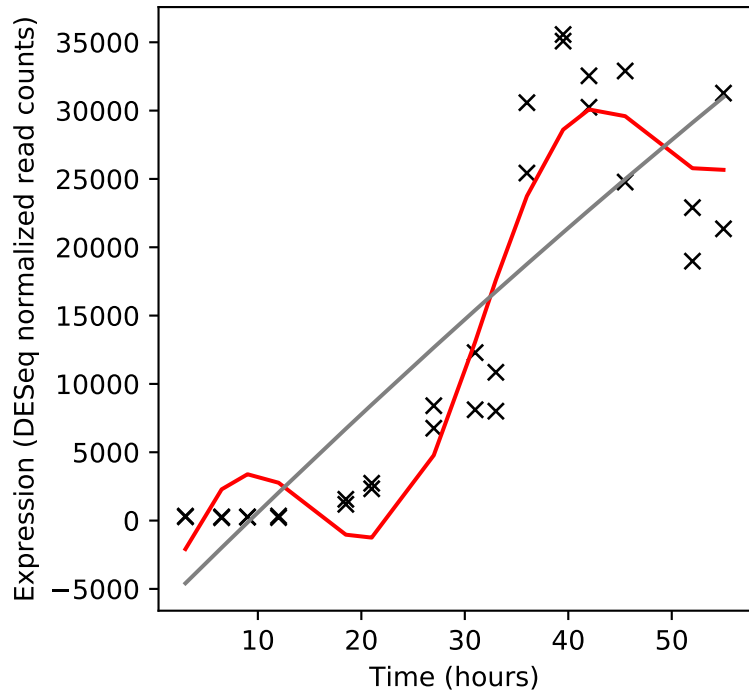
Rv2961/-



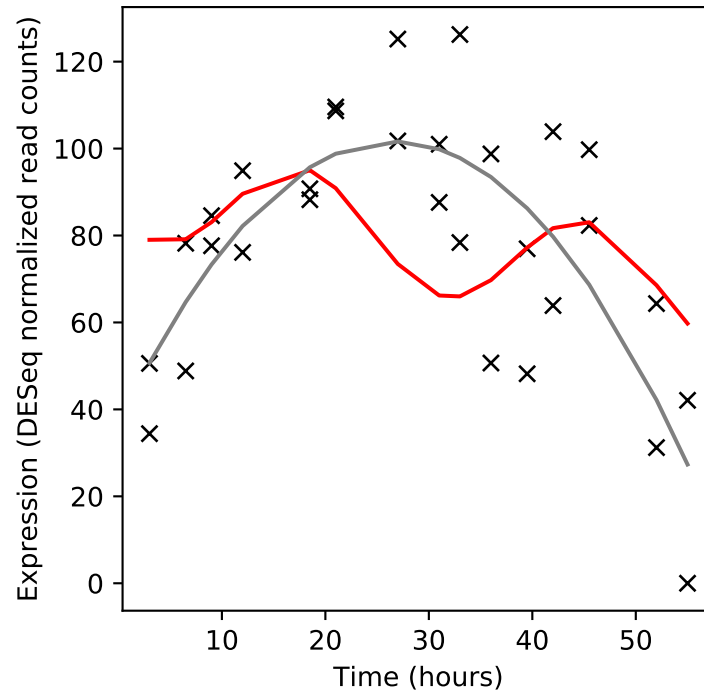
Rv2962c/-



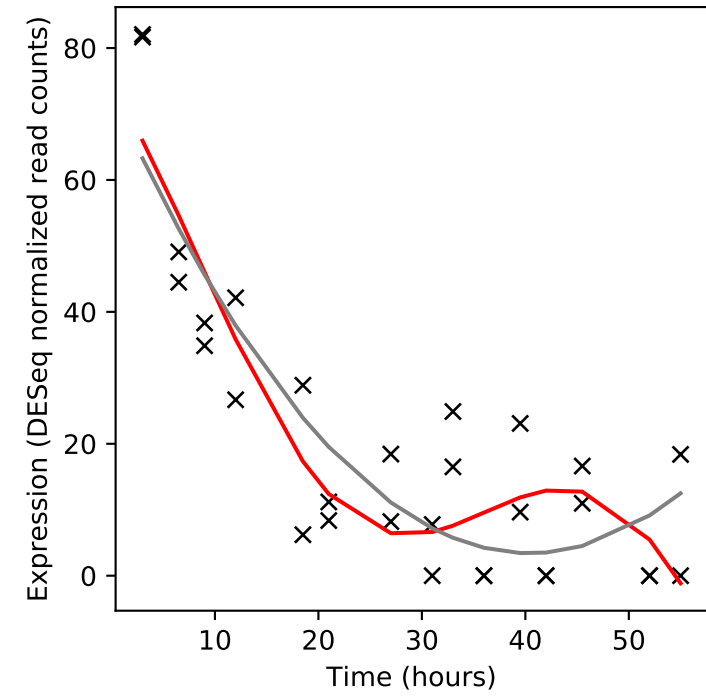
Rv2963/-



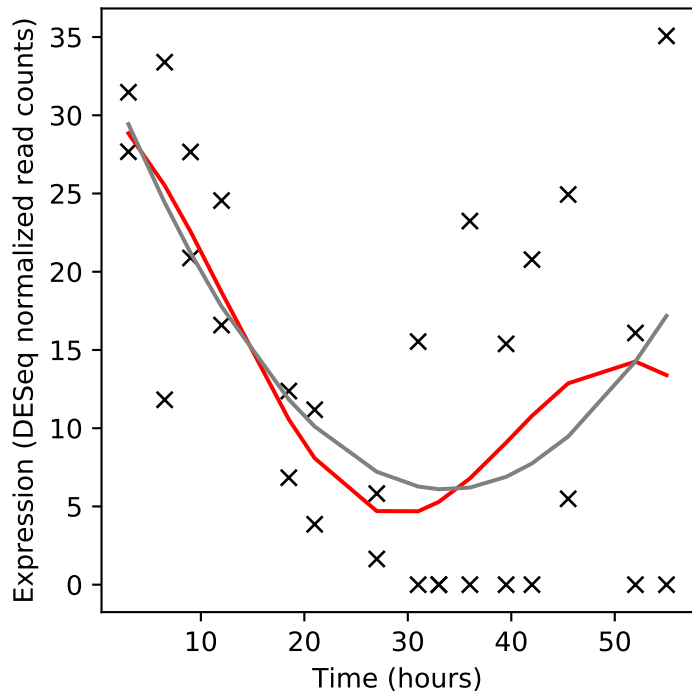
Rv2964/purU



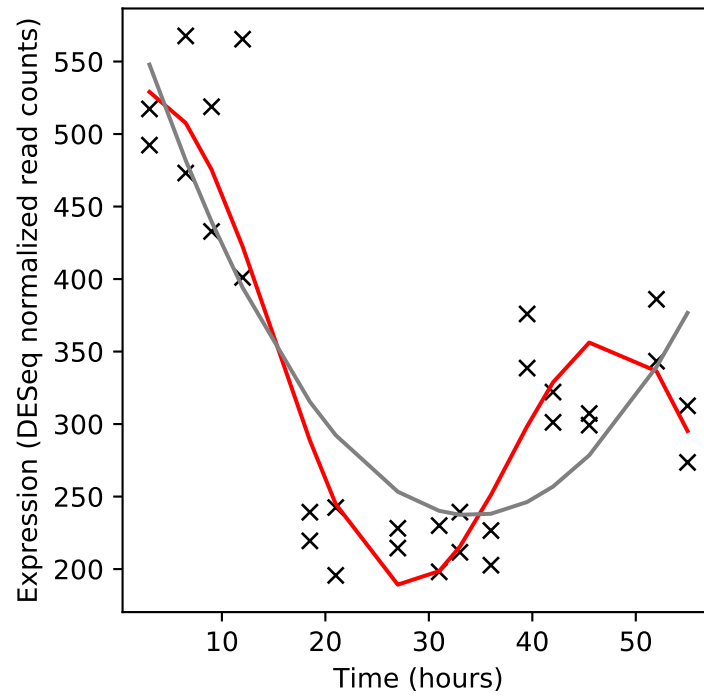
Rv2965c/kdtB



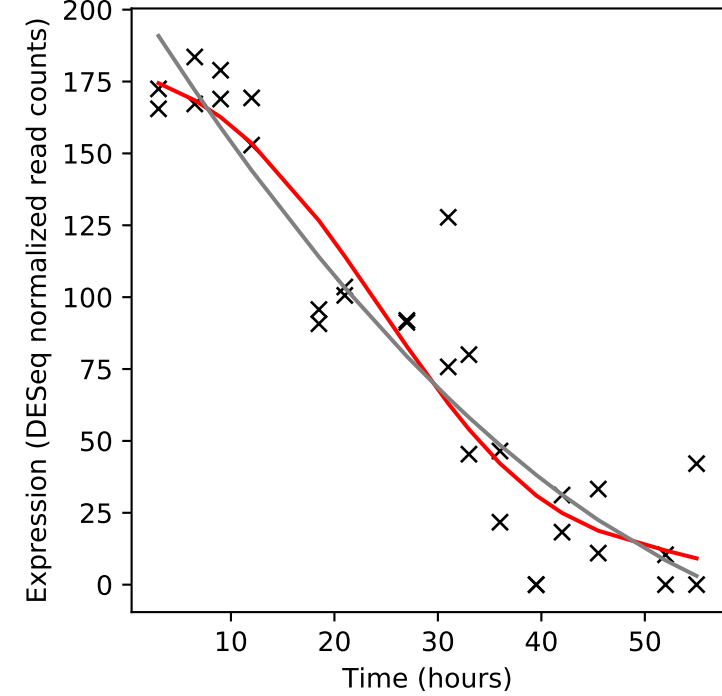
Rv2966c/-



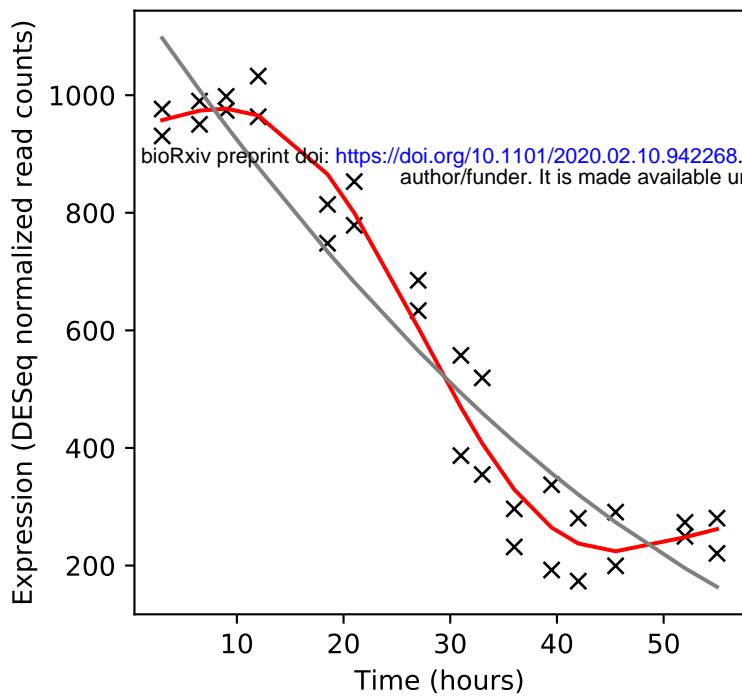
Rv2967c/pca



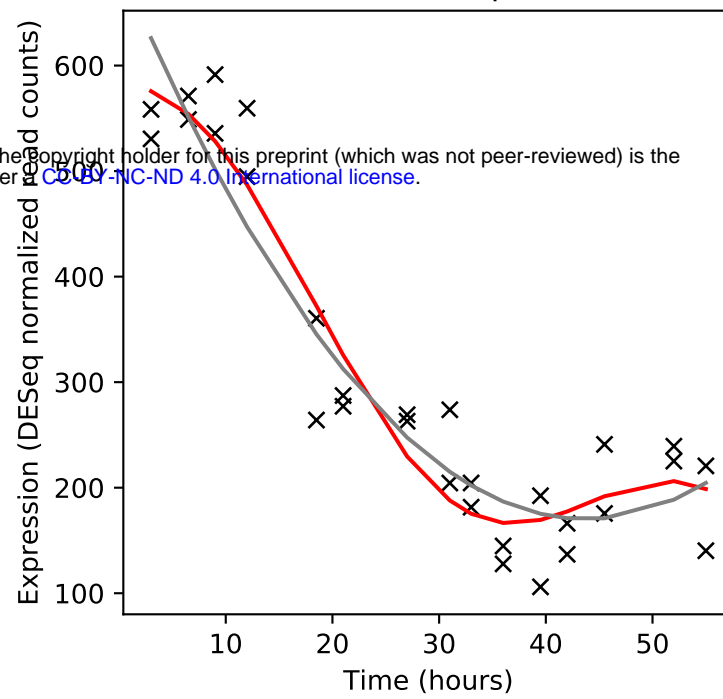
Rv2968c/-



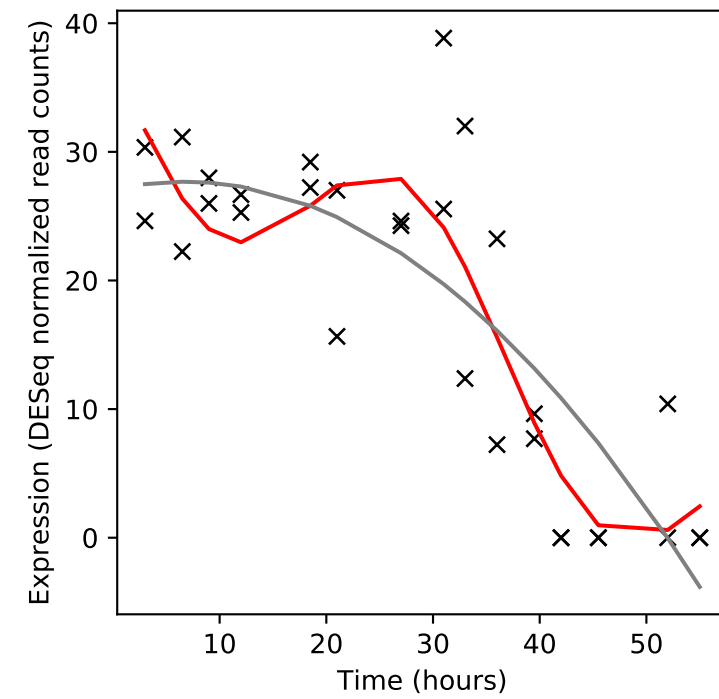
Rv2969c/-



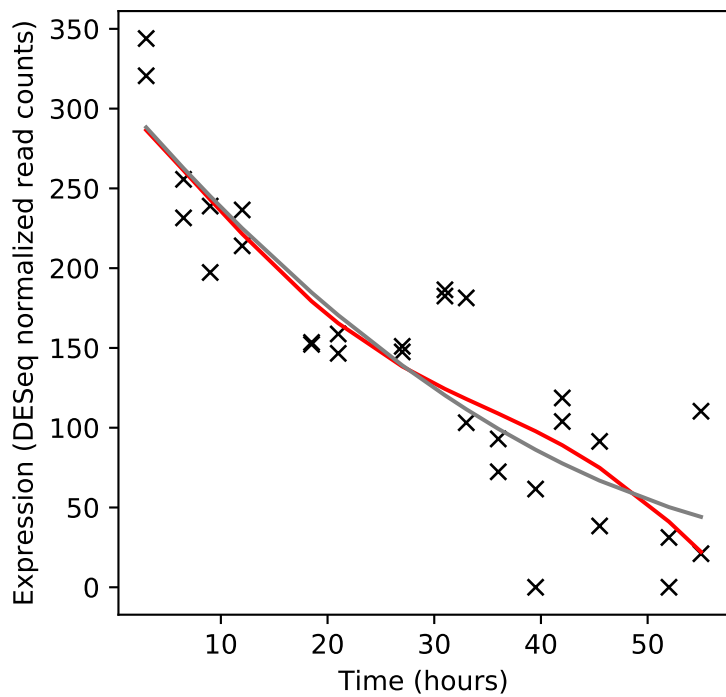
Rv2970c/lipN



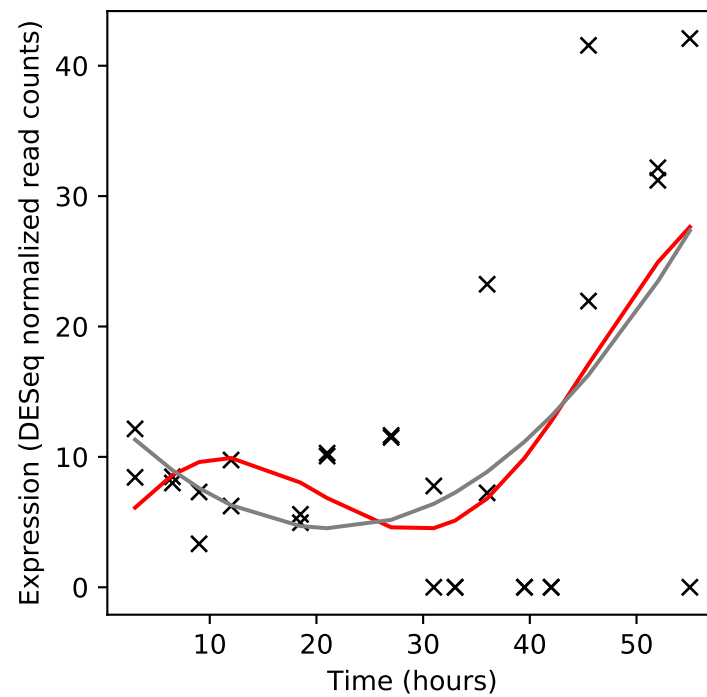
Rv2970A/-



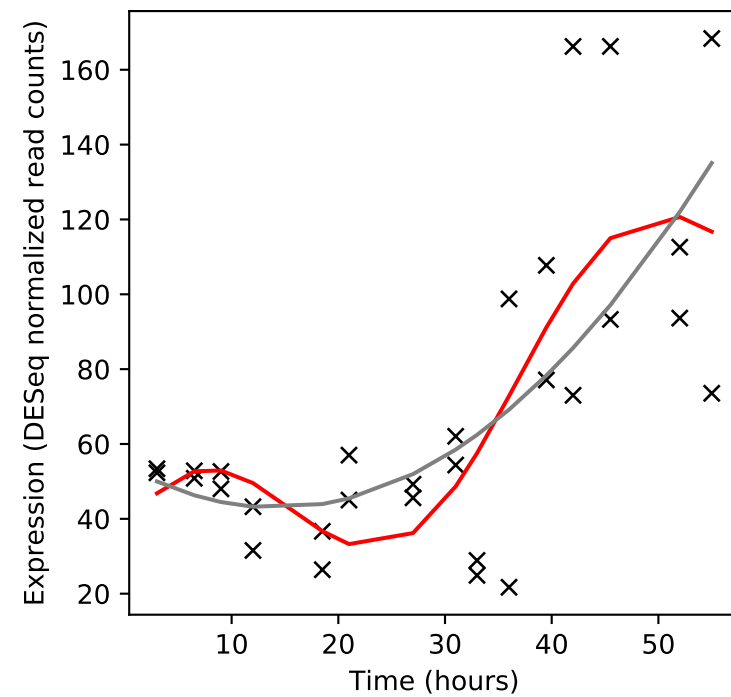
Rv2971/-



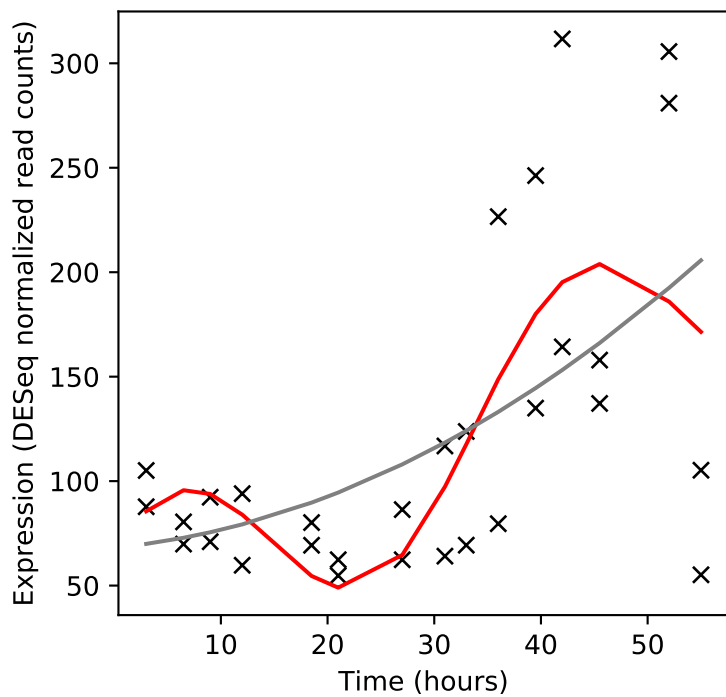
Rv2972c/-



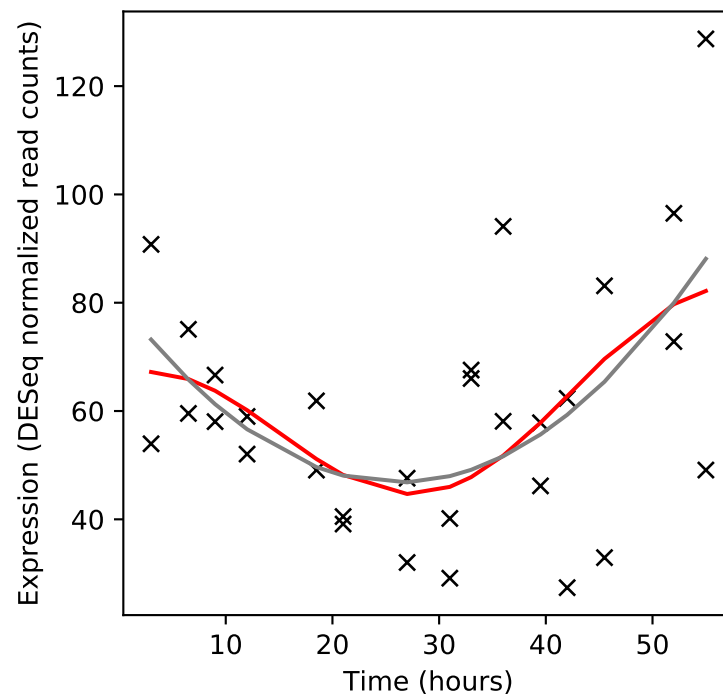
Rv2973c/recG



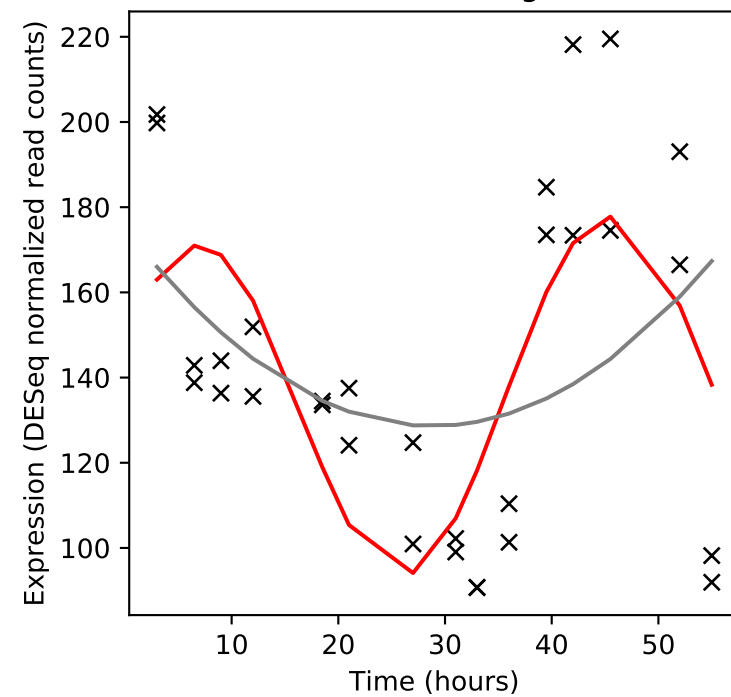
Rv2974c/-



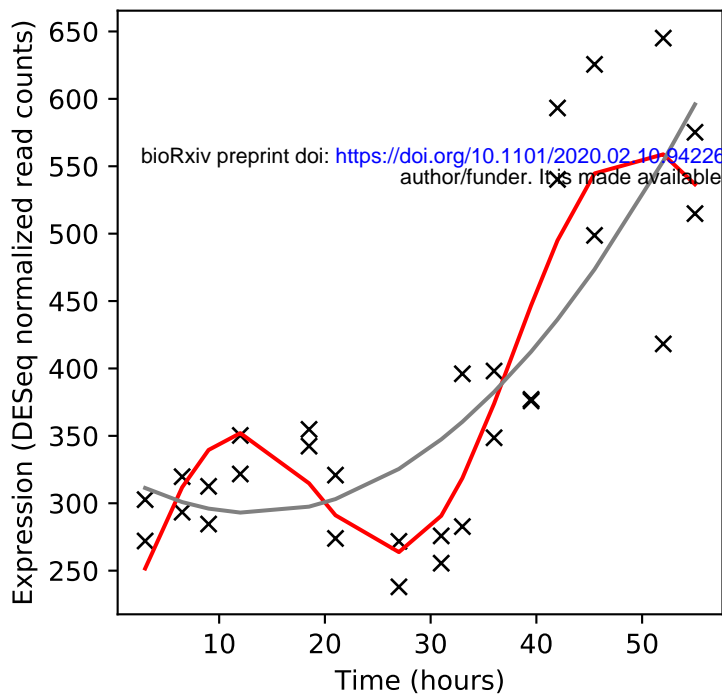
Rv2975c/-



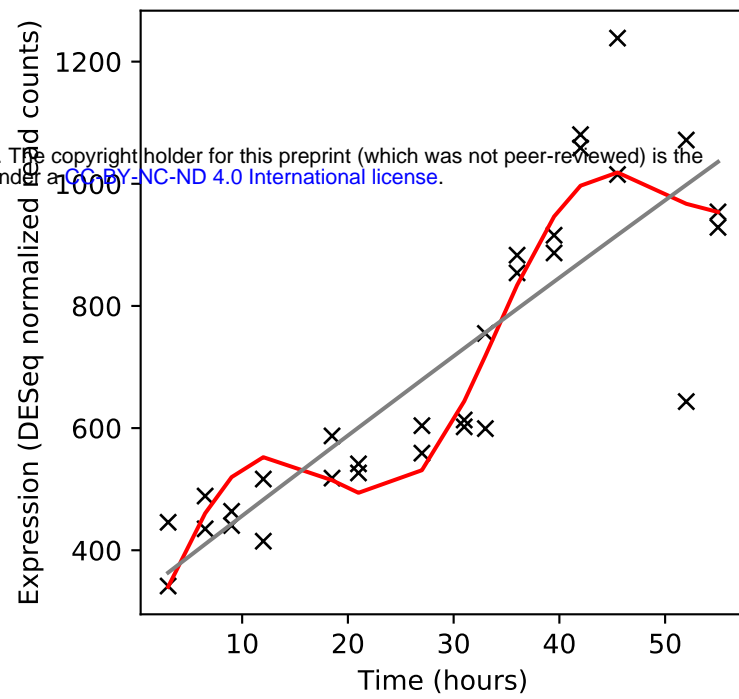
Rv2976c/ung



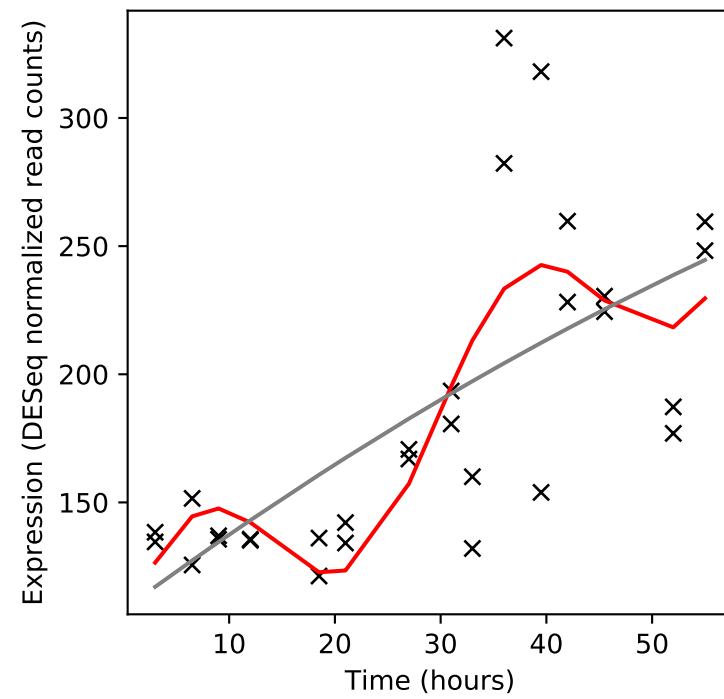
Rv2977c/thiL



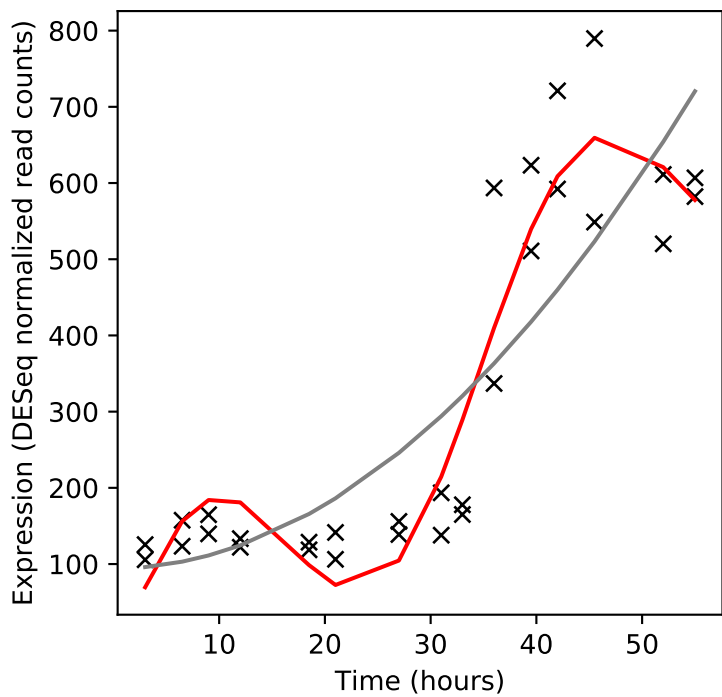
Rv2978c/-



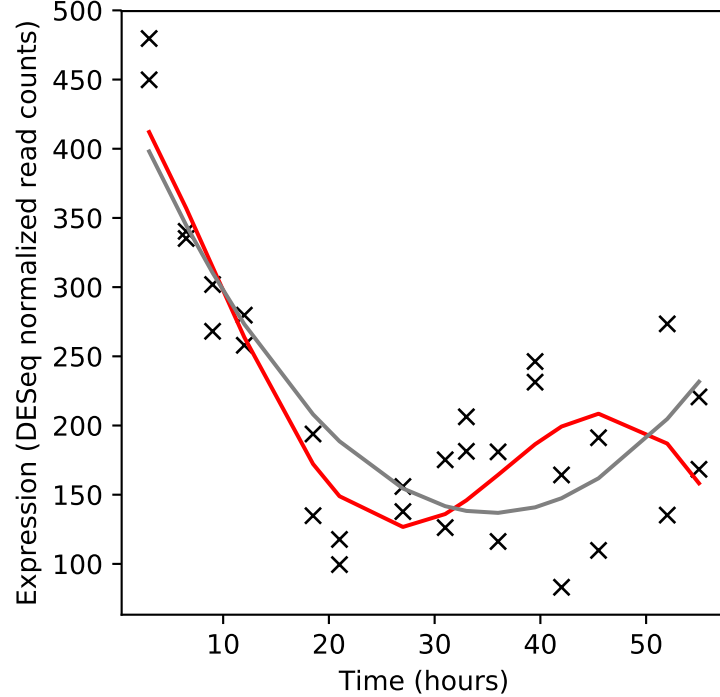
Rv2979c/-



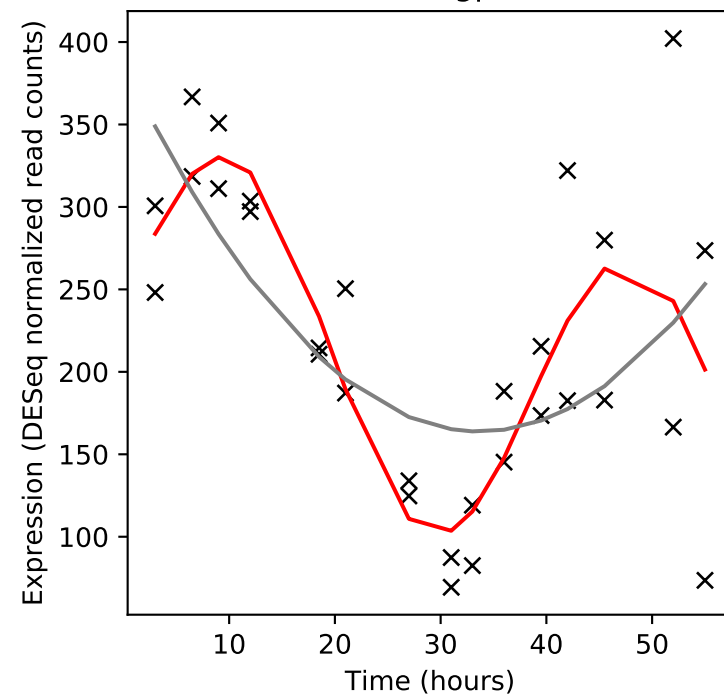
Rv2980/-



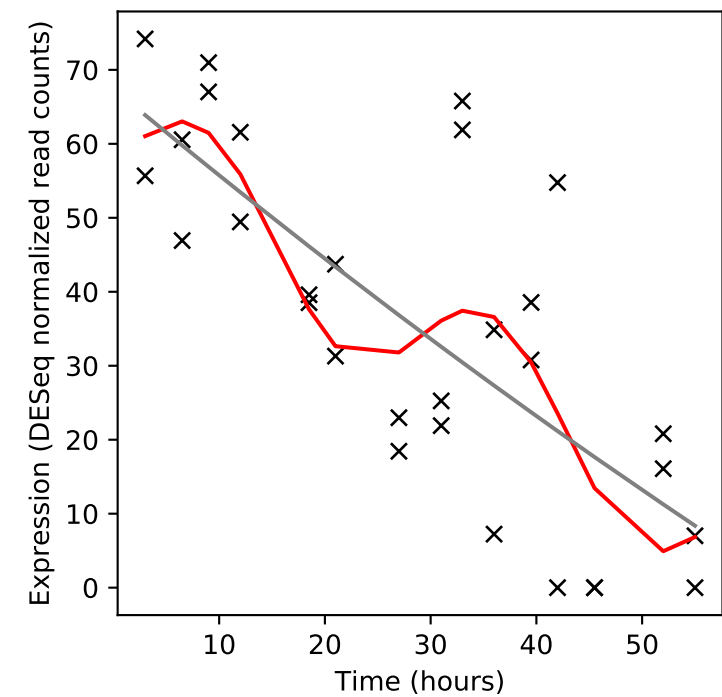
Rv2981c/ddIA



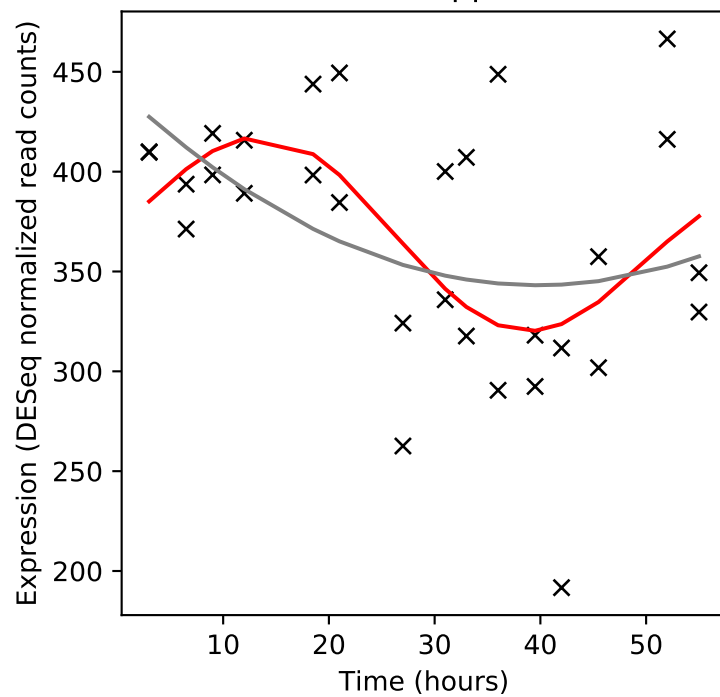
Rv2982c/gpdA2



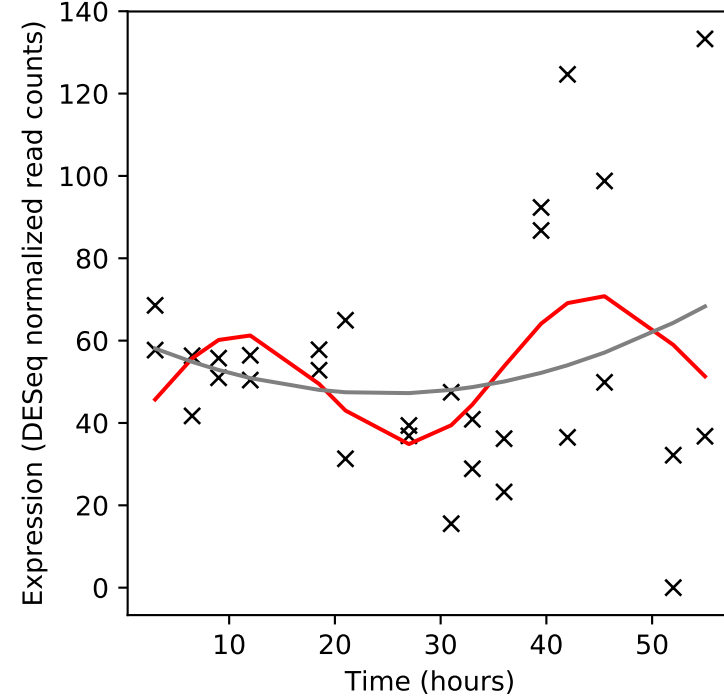
Rv2983/-



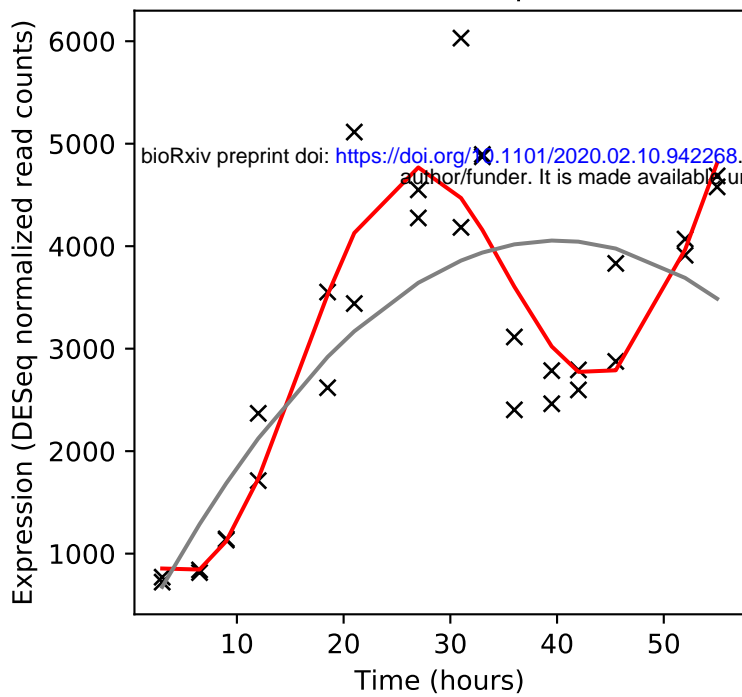
Rv2984/ppk1



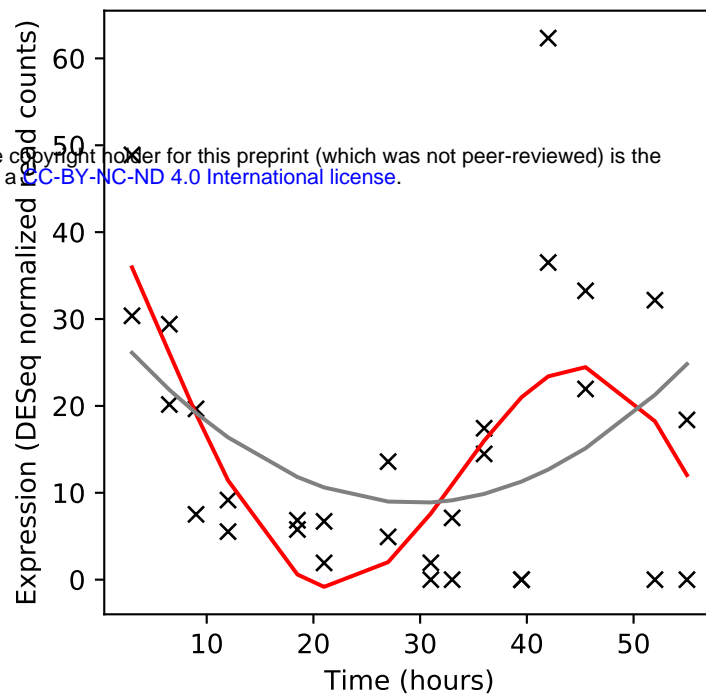
Rv2985/mutT1



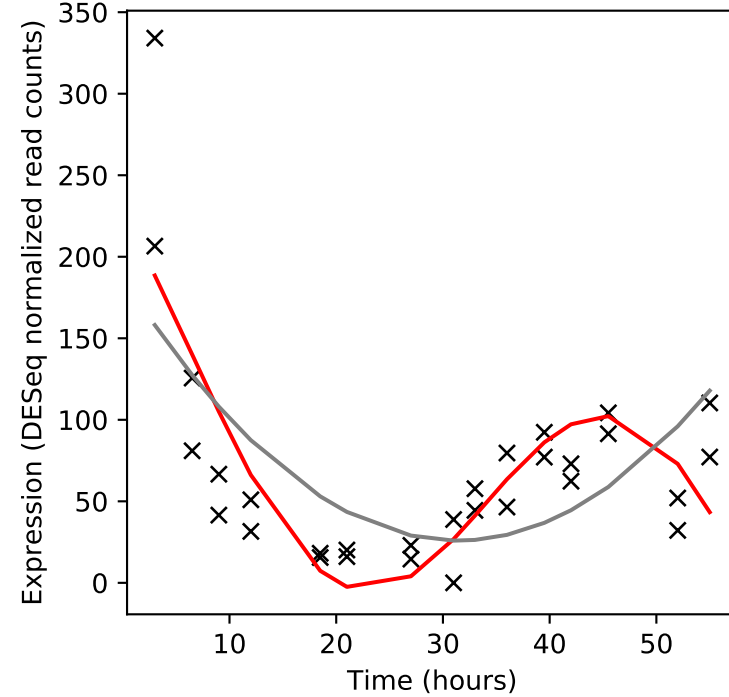
Rv2986c/hupB



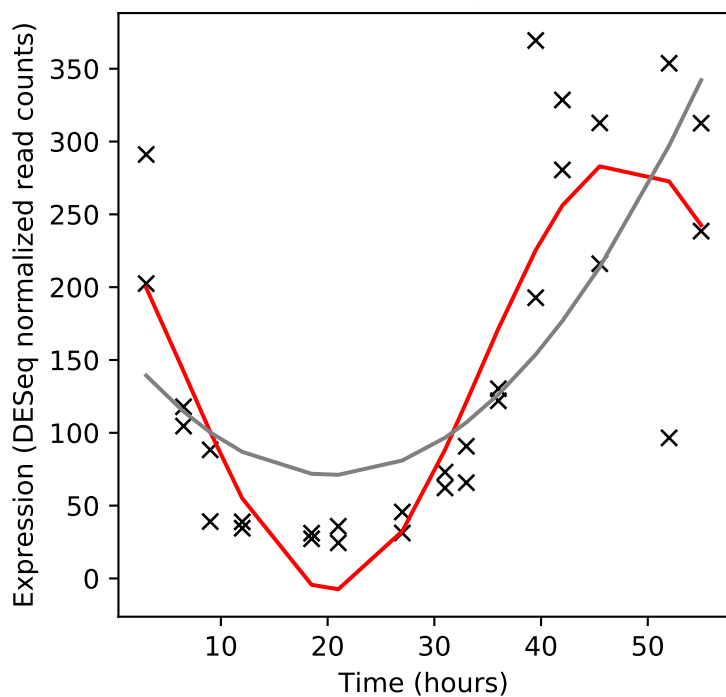
Rv2987c/leuD



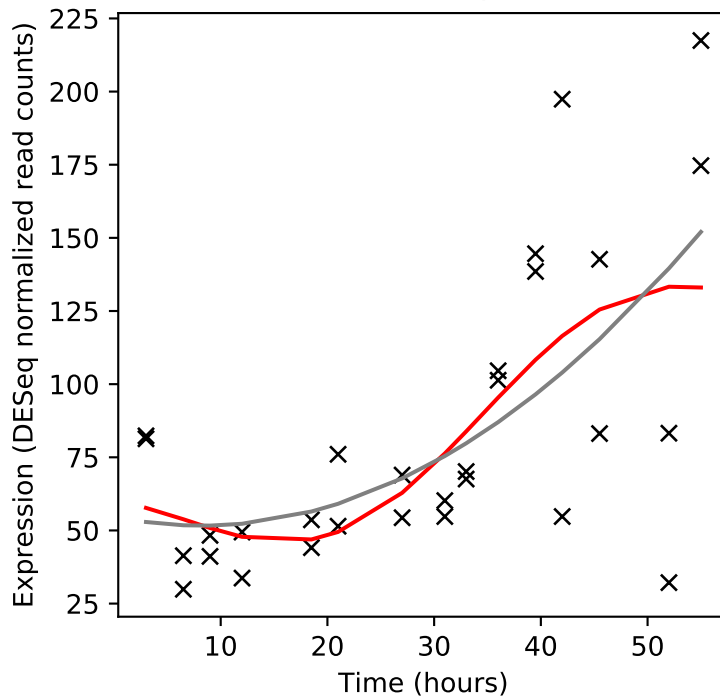
Rv2988c/leuC



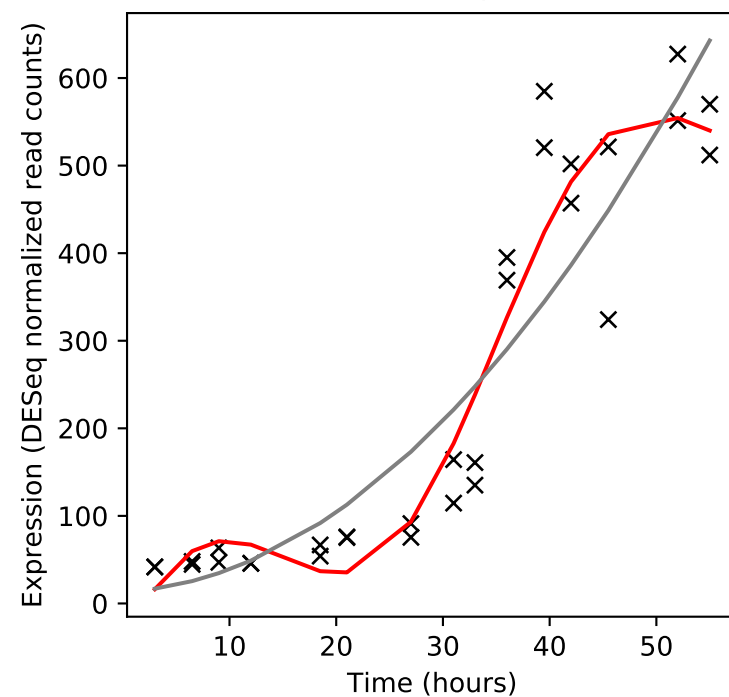
Rv2989/-



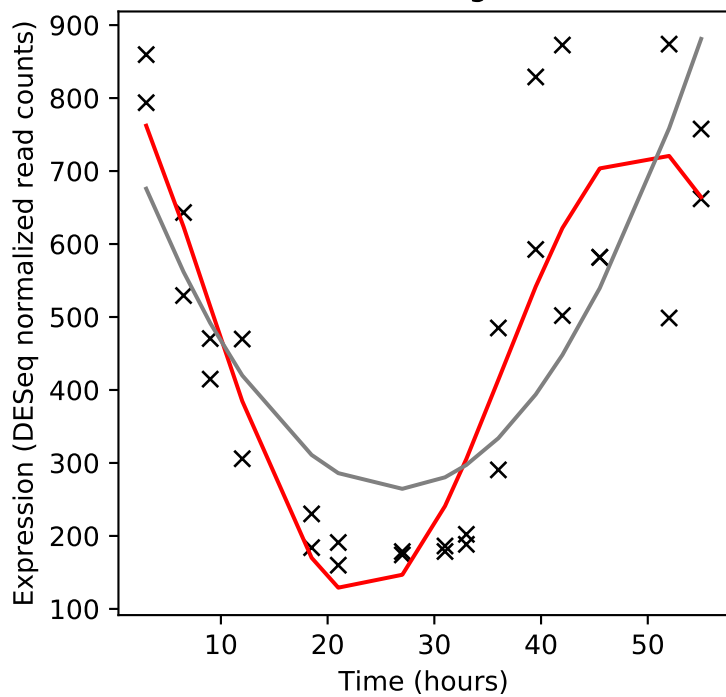
Rv2990c/-



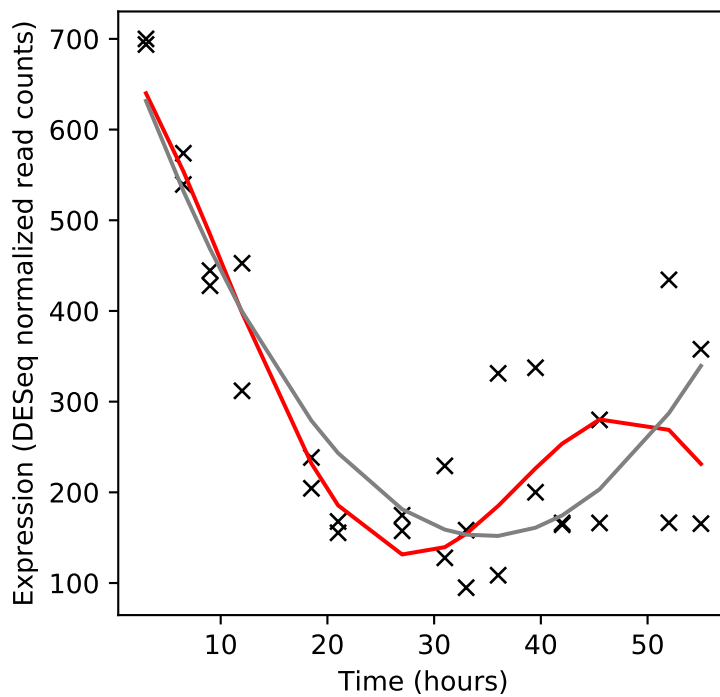
Rv2991/-



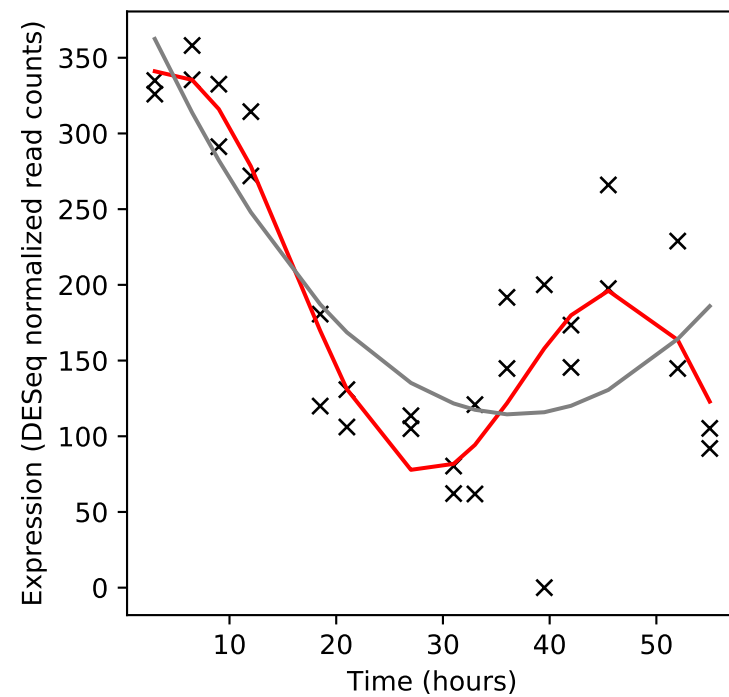
Rv2992c/gltS



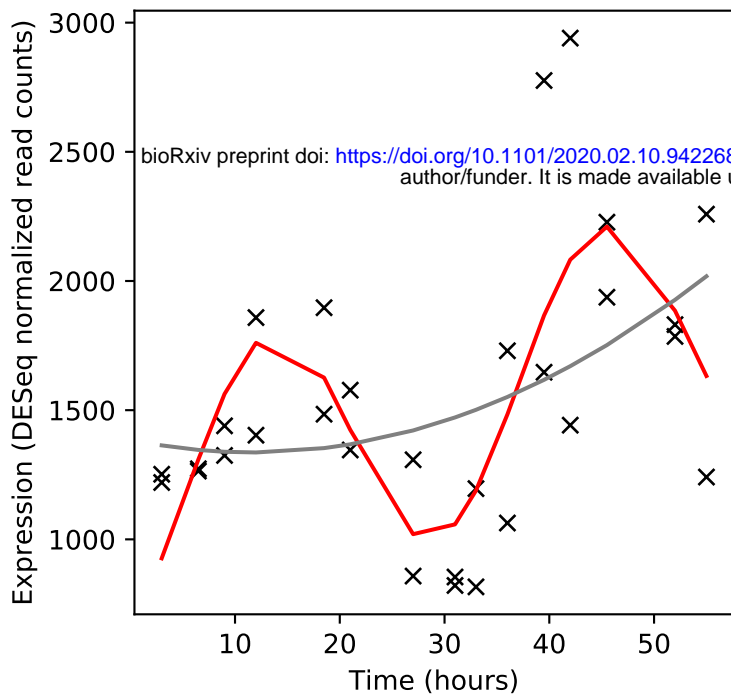
Rv2993c/-



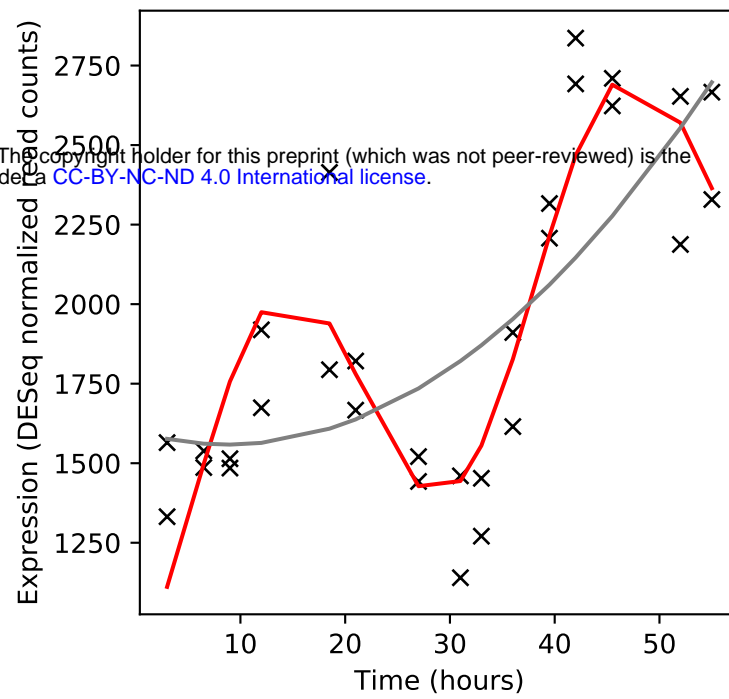
Rv2994/-



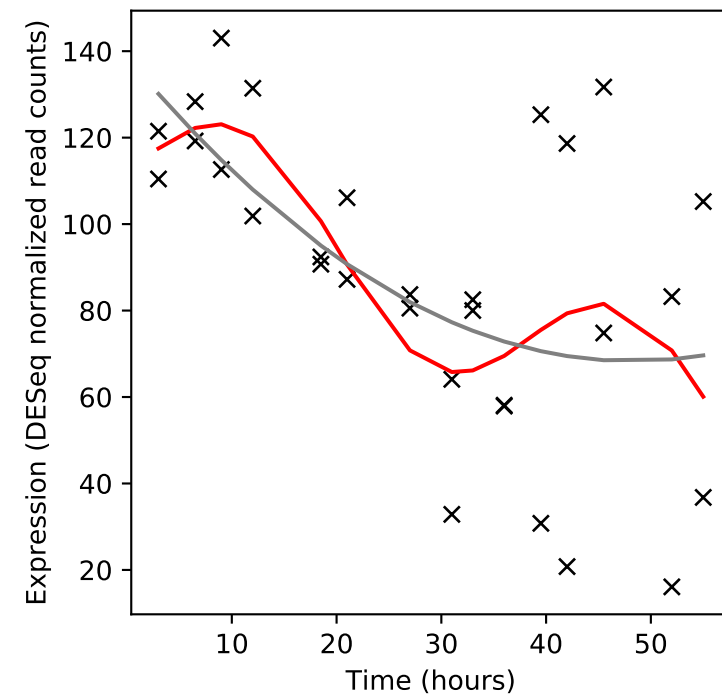
Rv2995c/leuB



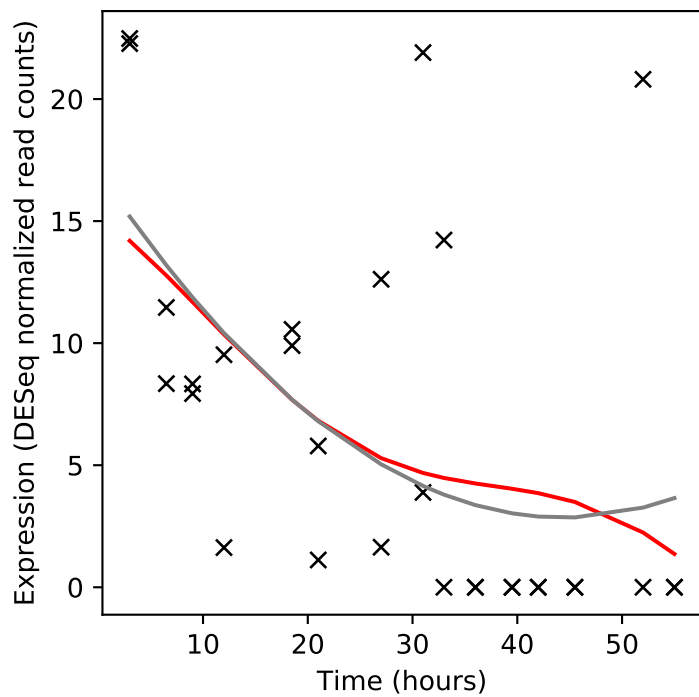
Rv2996c/serA1



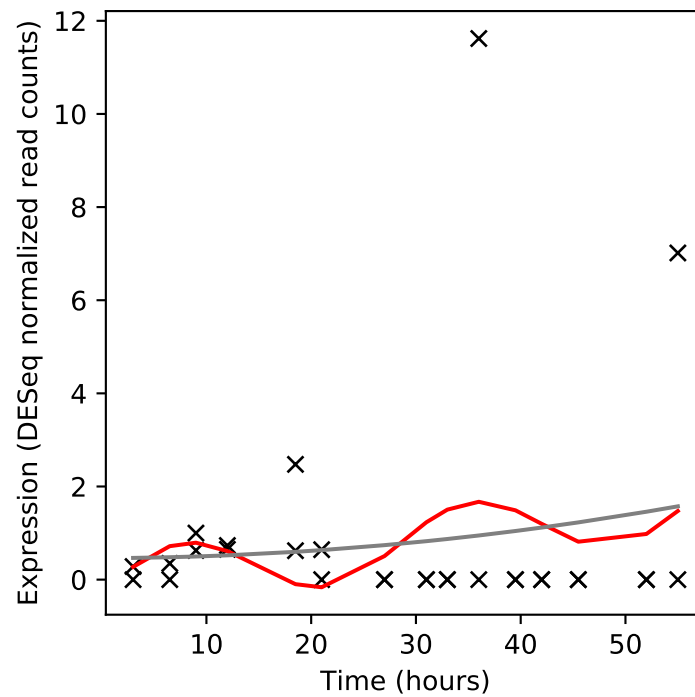
Rv2997/-



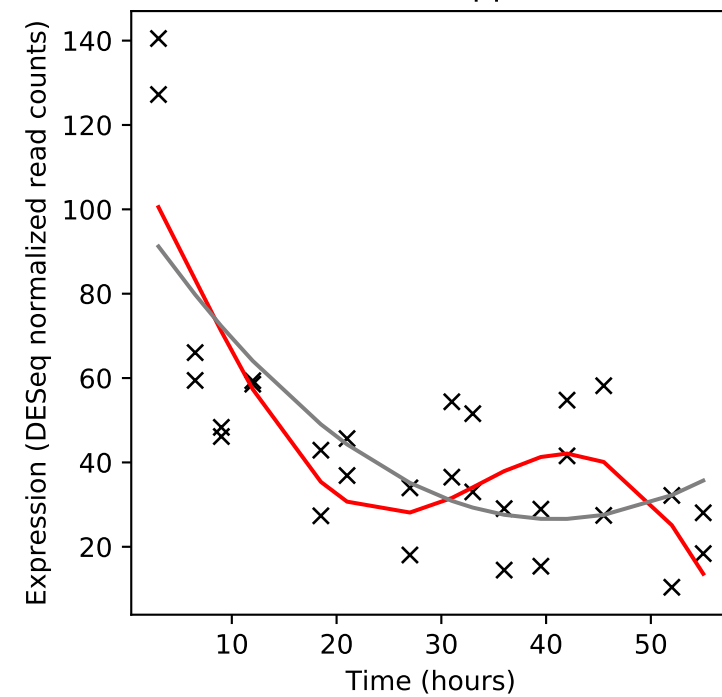
Rv2998/-



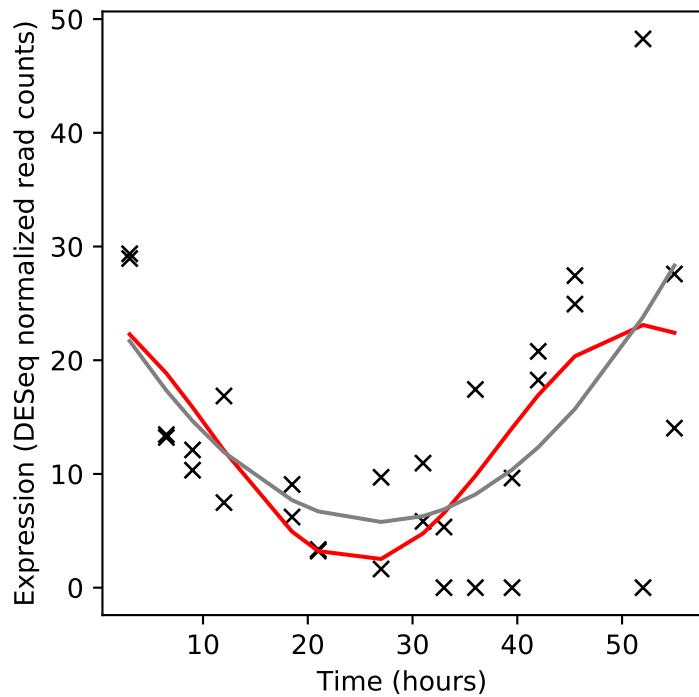
Rv2998A/-



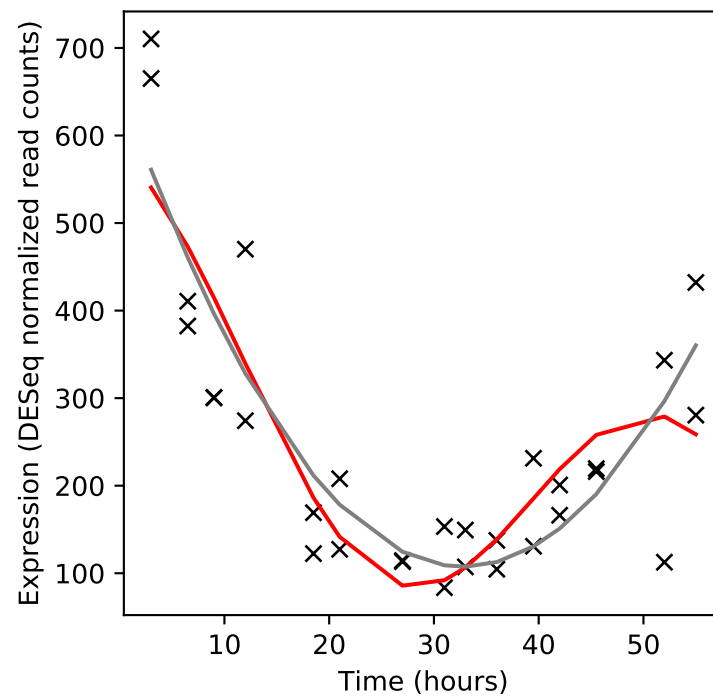
Rv2999/lppY



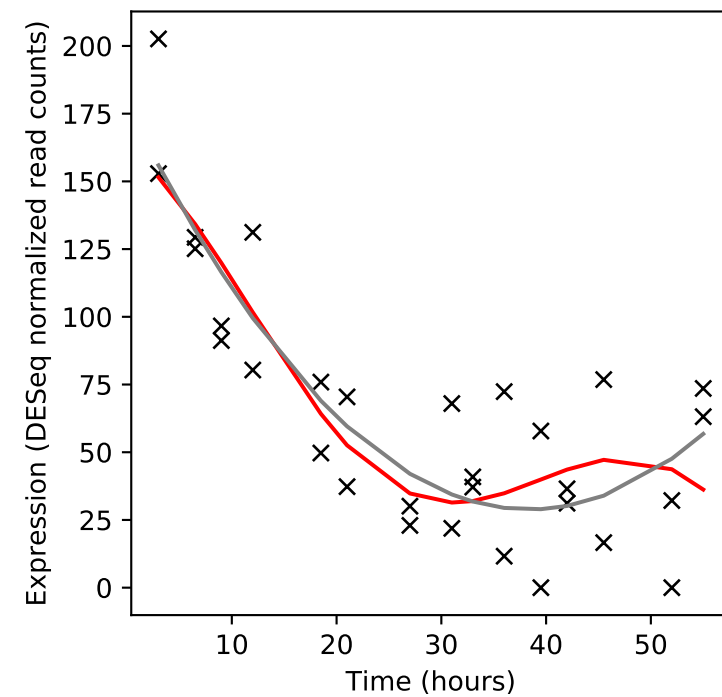
Rv3000/-



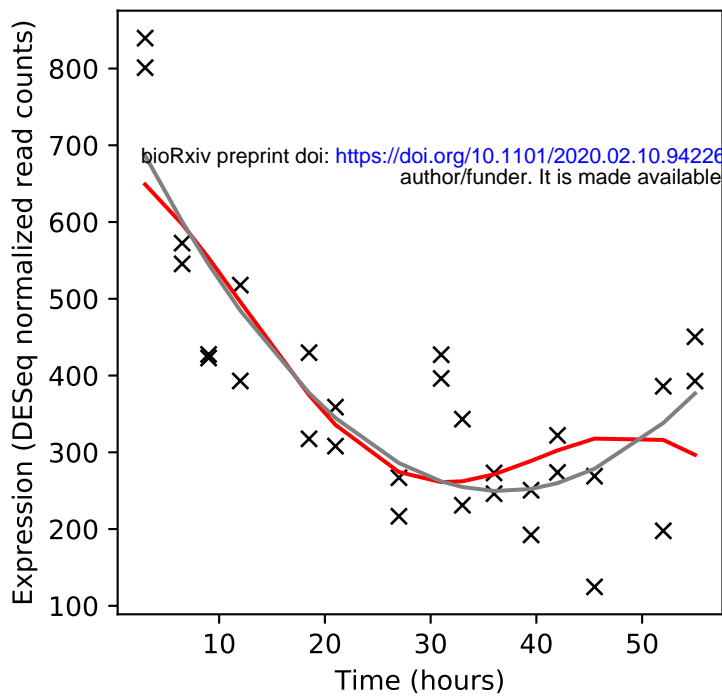
Rv3001c/ilvC



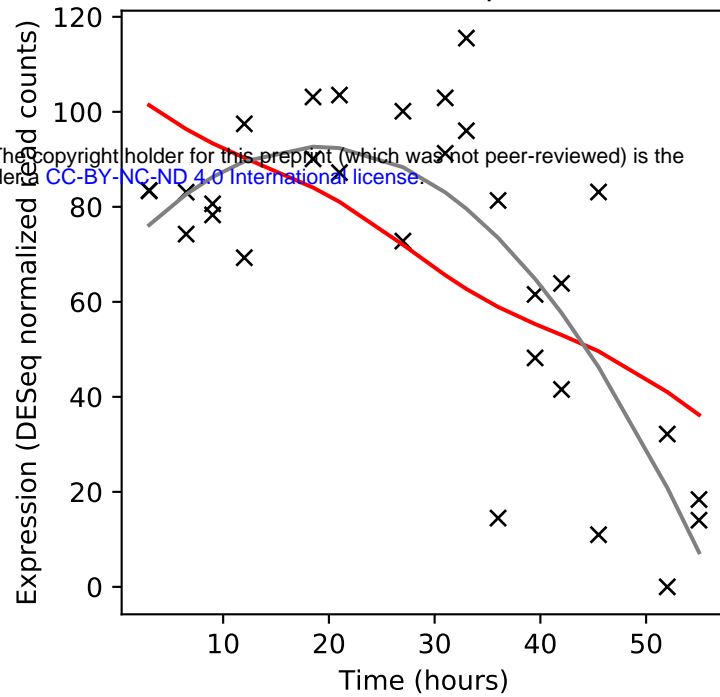
Rv3002c/ilvN



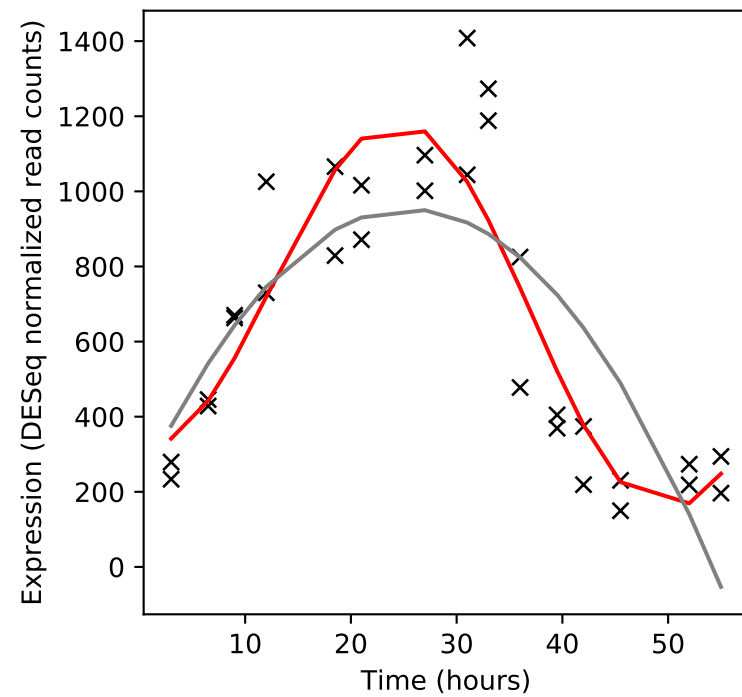
Rv3003c/ilvB1



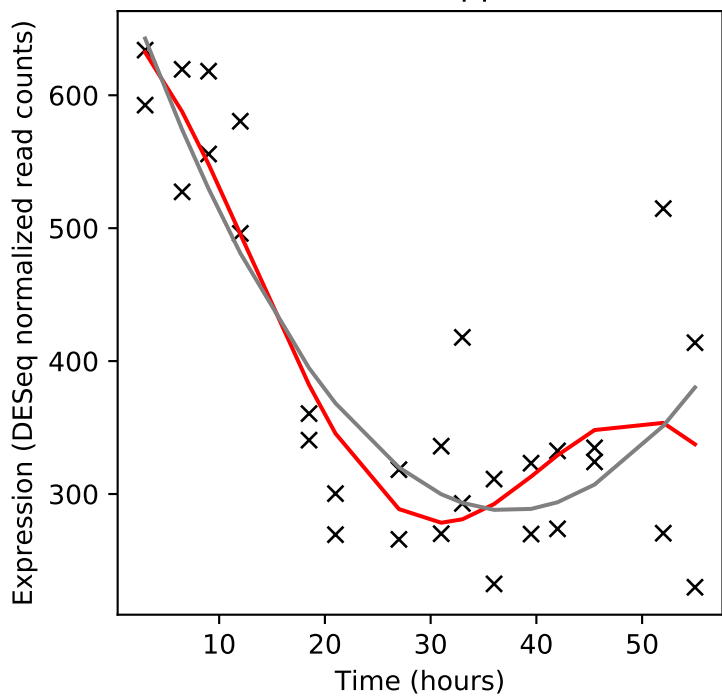
Rv3004/cfp6



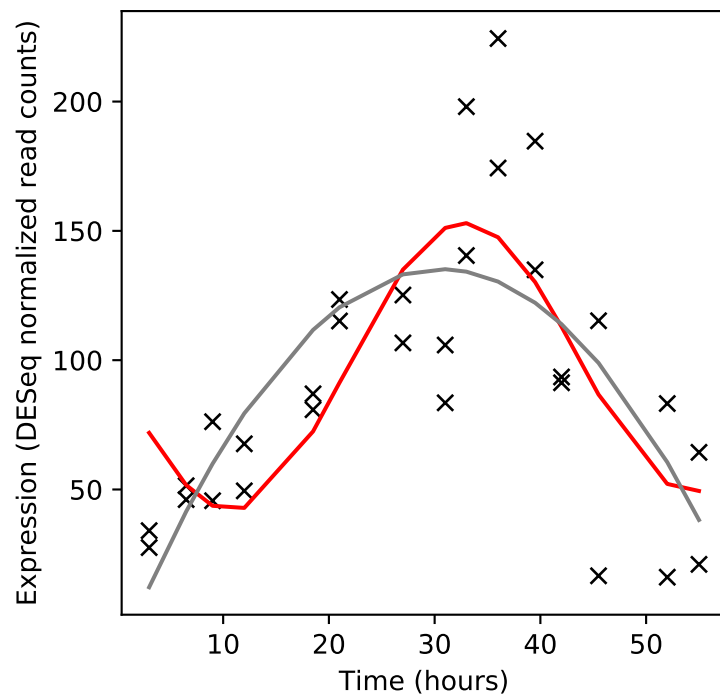
Rv3005c/-



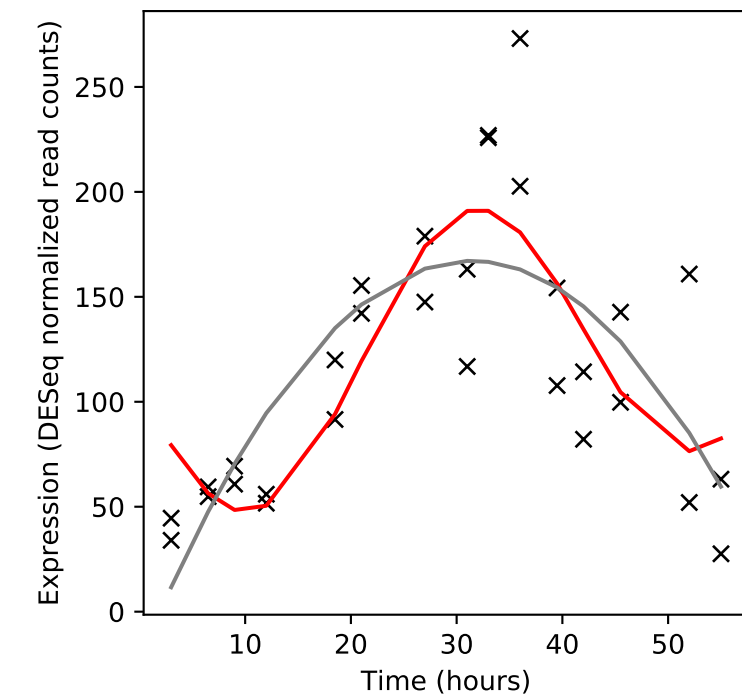
Rv3006/lppZ



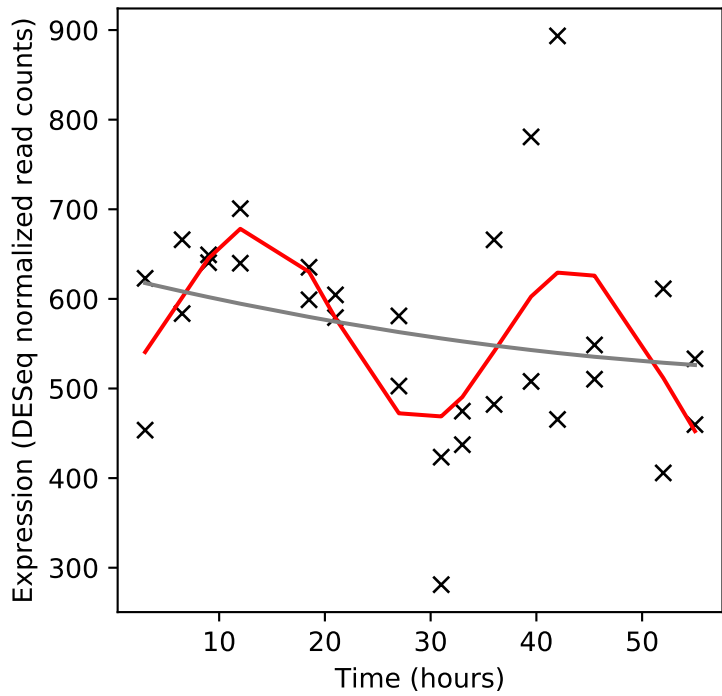
Rv3007c/-



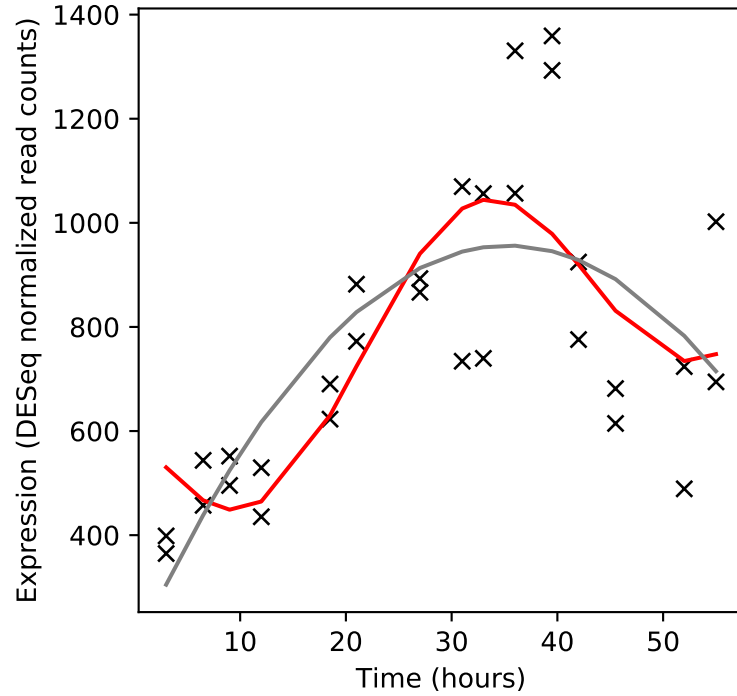
Rv3008/-



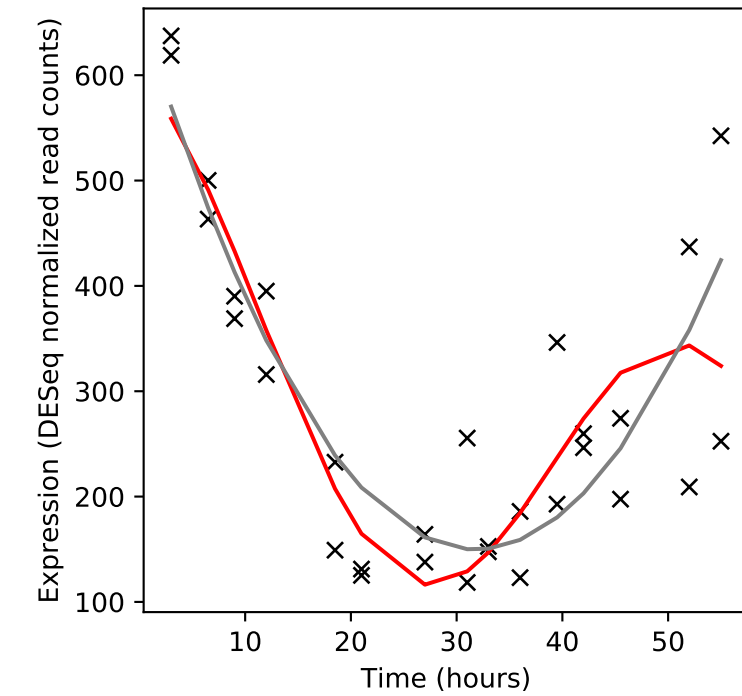
Rv3009c/gatB



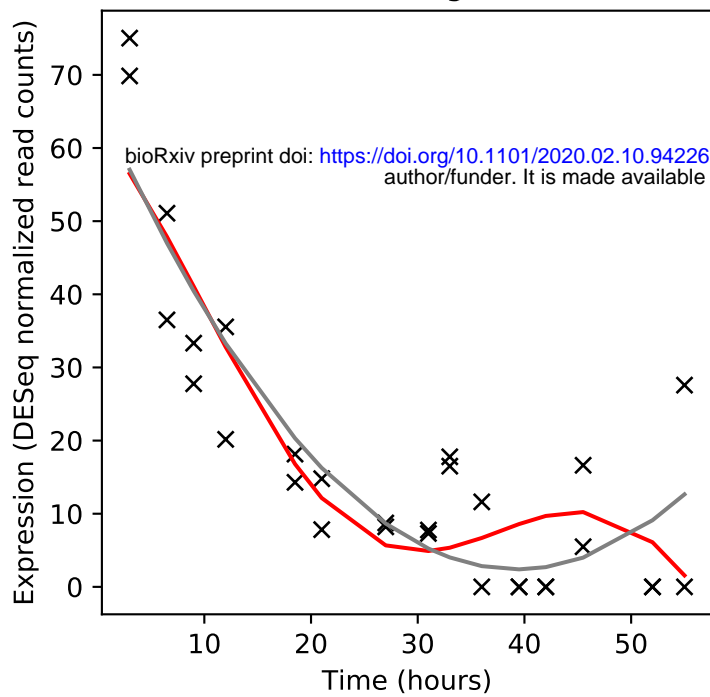
Rv3010c/pfkA



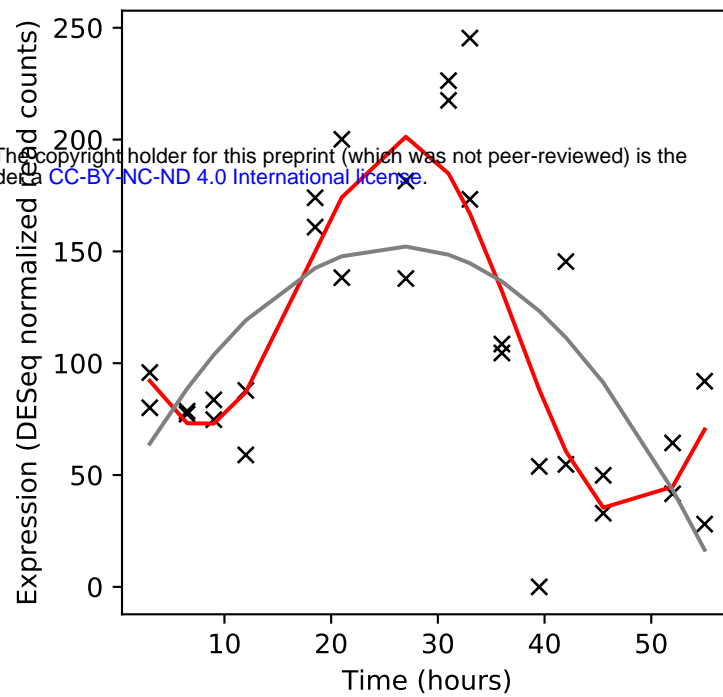
Rv3011c/gatA



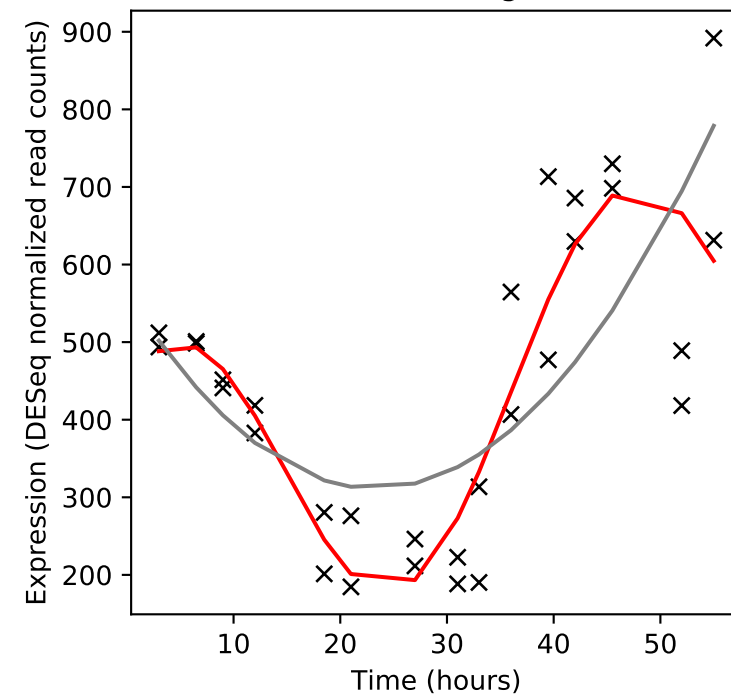
Rv3012c/gatC



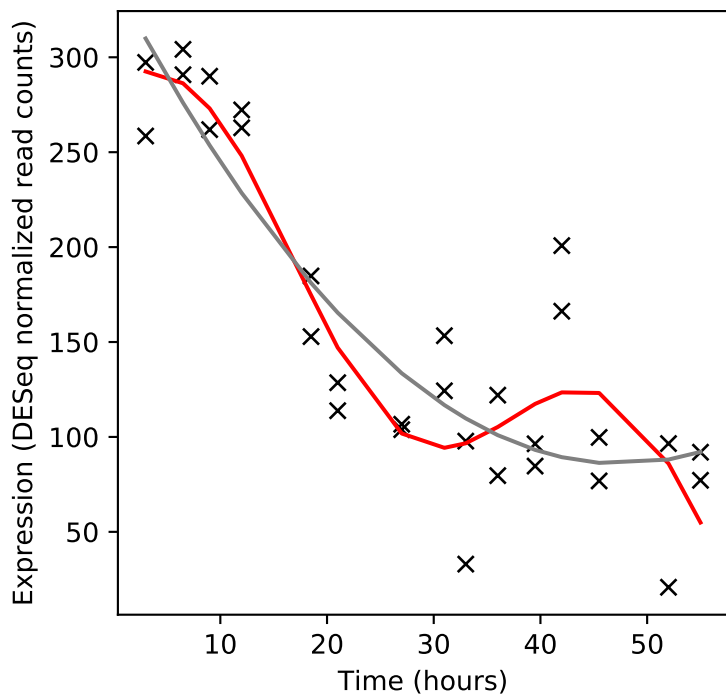
Rv3013/-



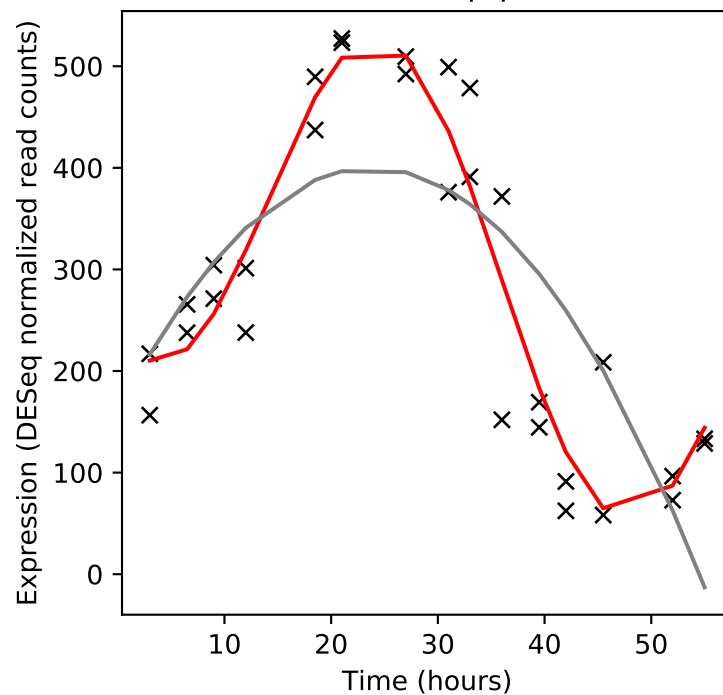
Rv3014c/ligA



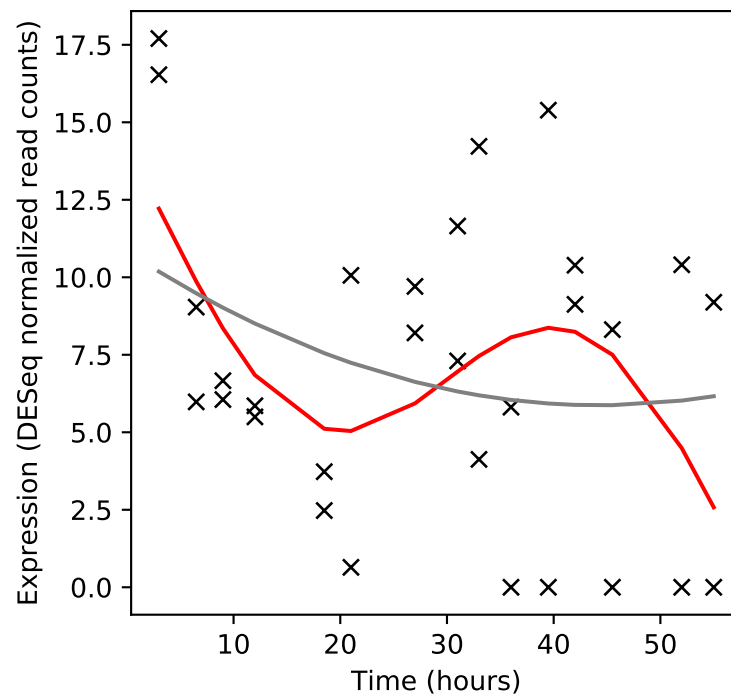
Rv3015c/-



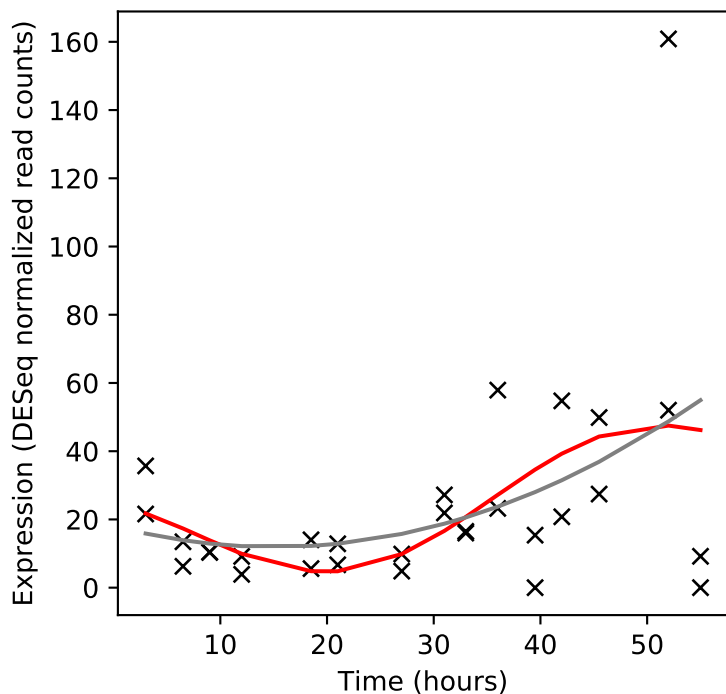
Rv3016/lpqA



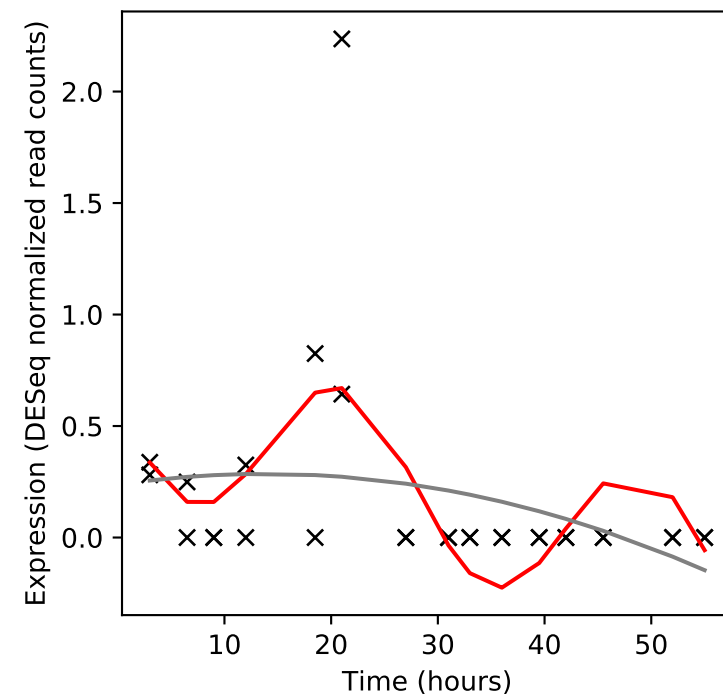
Rv3017c/esxQ



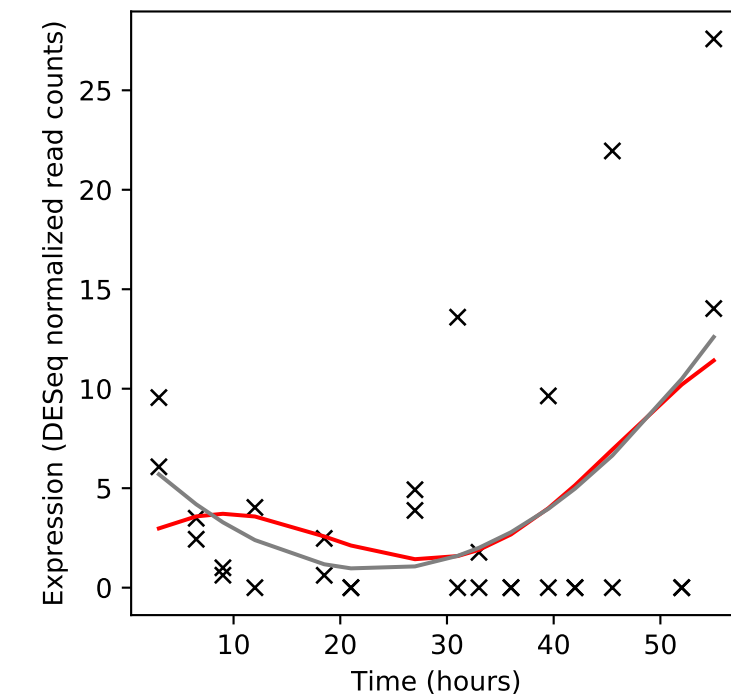
Rv3018c/PPE46



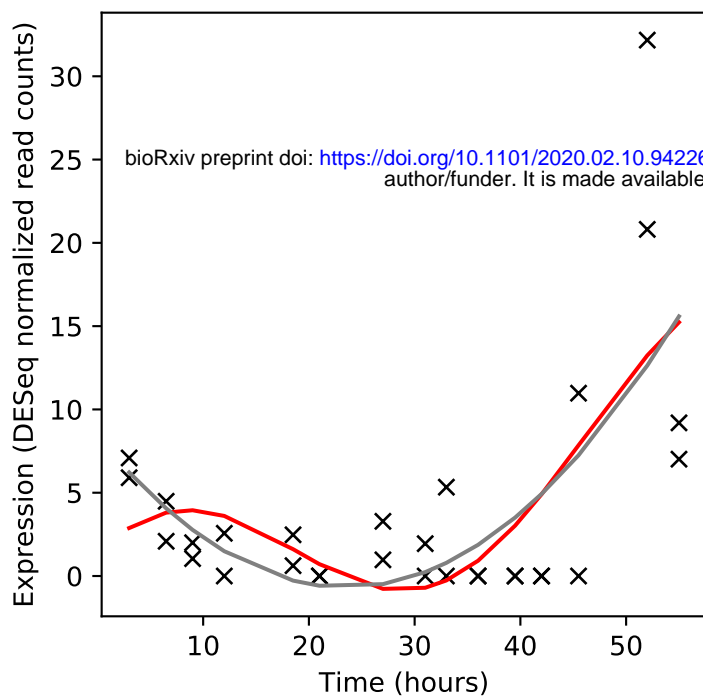
Rv3018A/PE27A



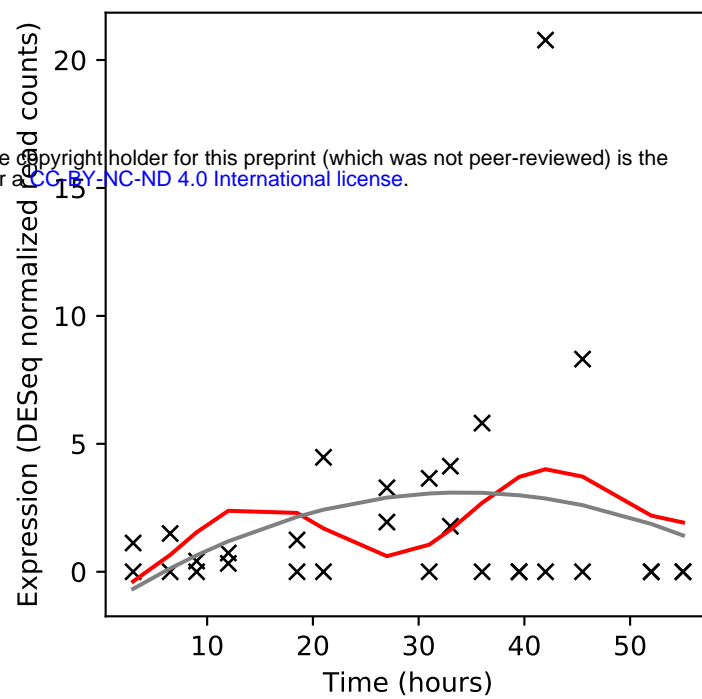
Rv3019c/esxR



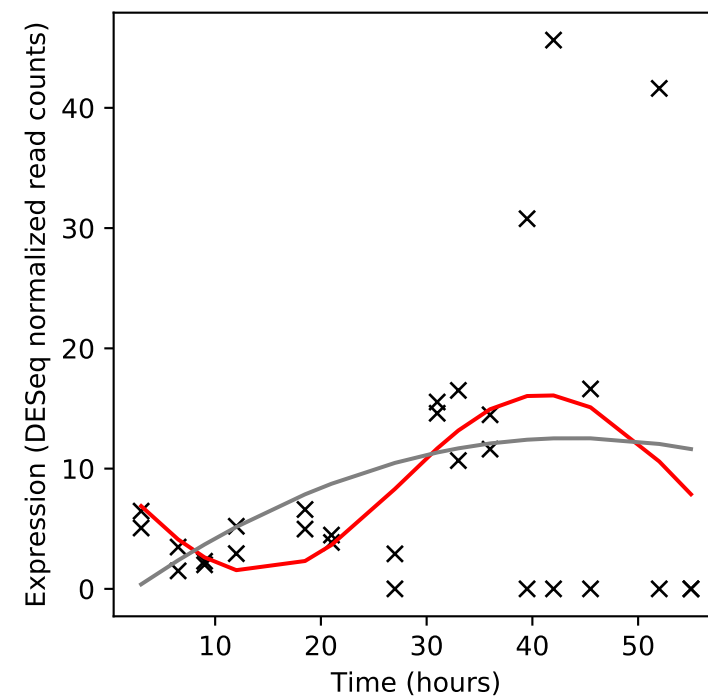
Rv3020c/esxS



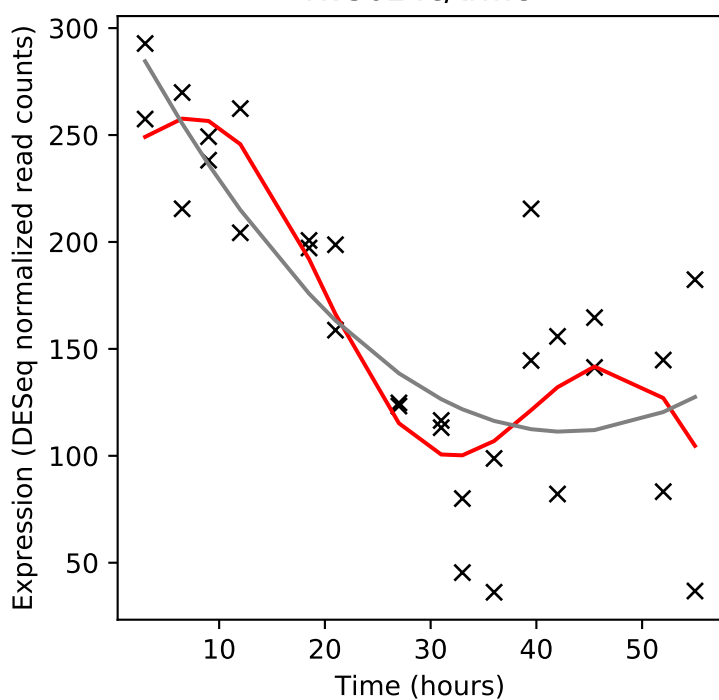
Rv3022A/PE29



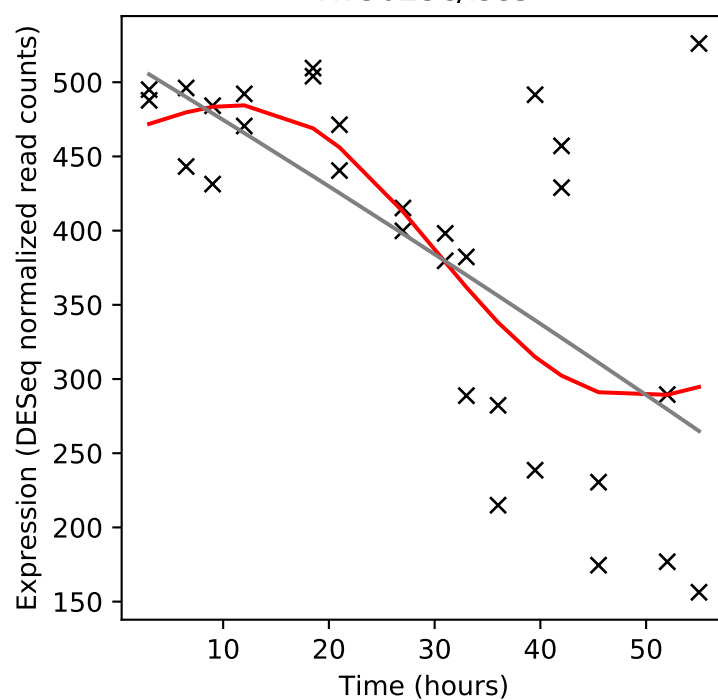
Rv3023c/-



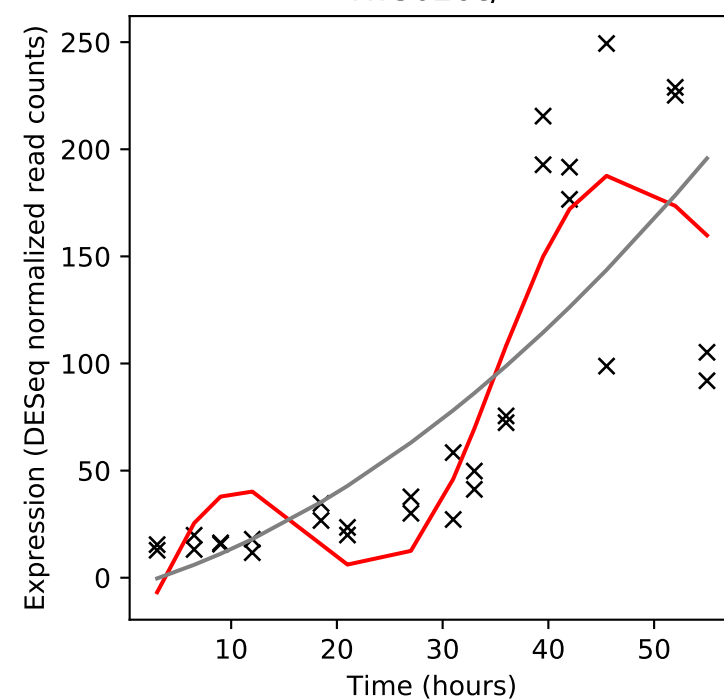
Rv3024c/trmU



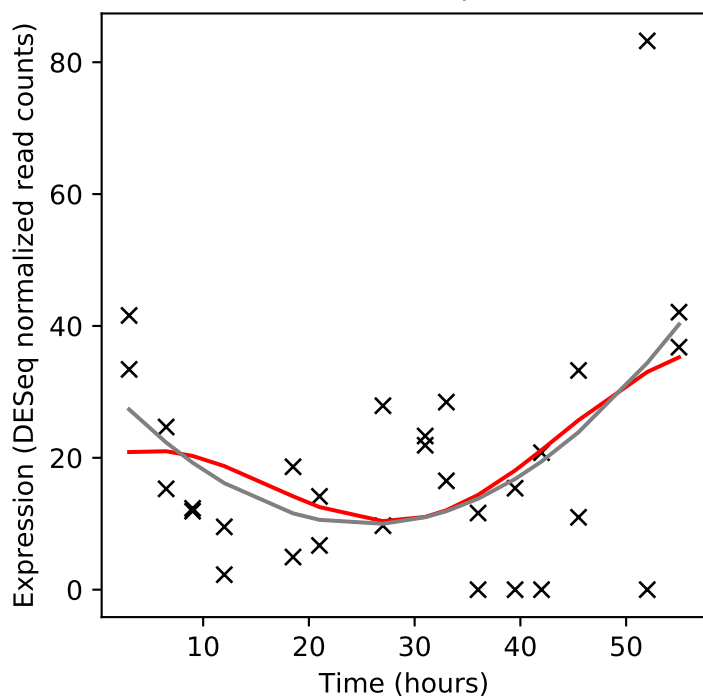
Rv3025c/iscS



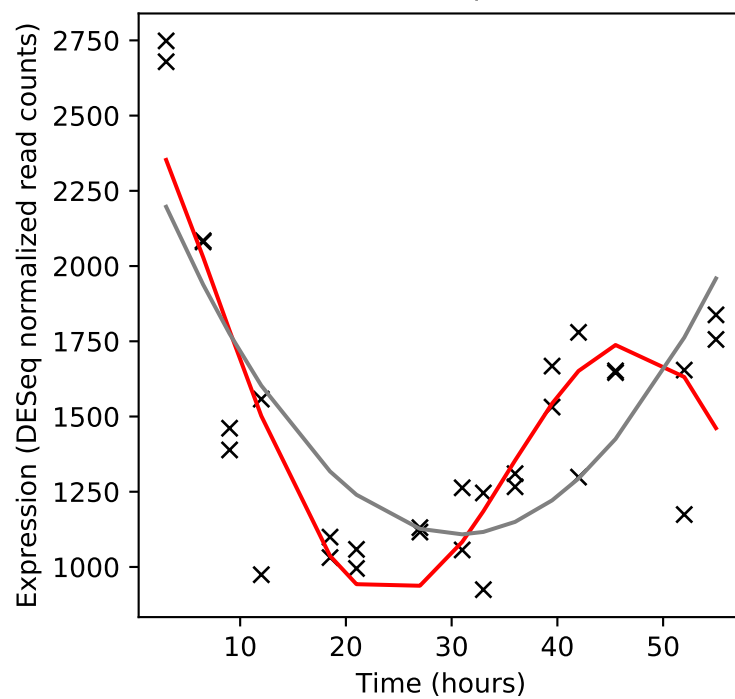
Rv3026c/-



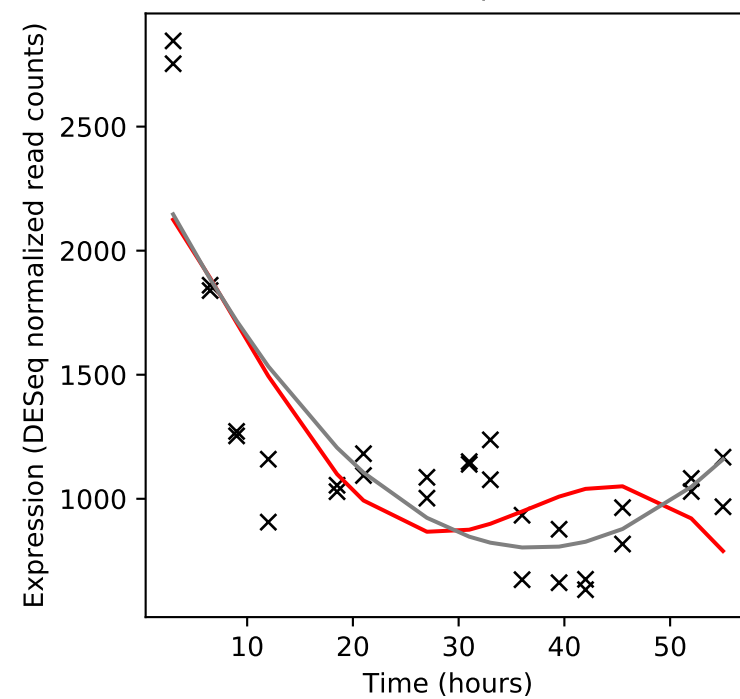
Rv3027c/-



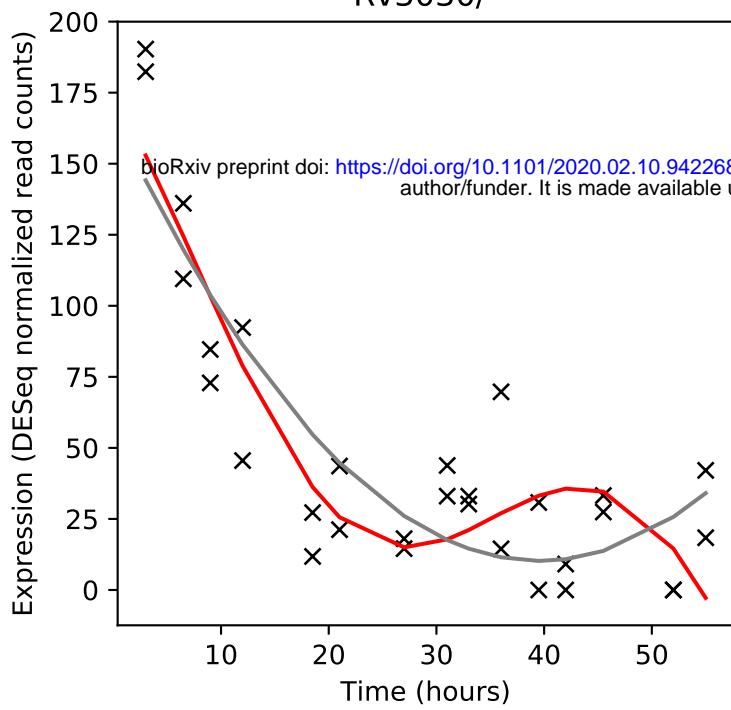
Rv3028c/fixB



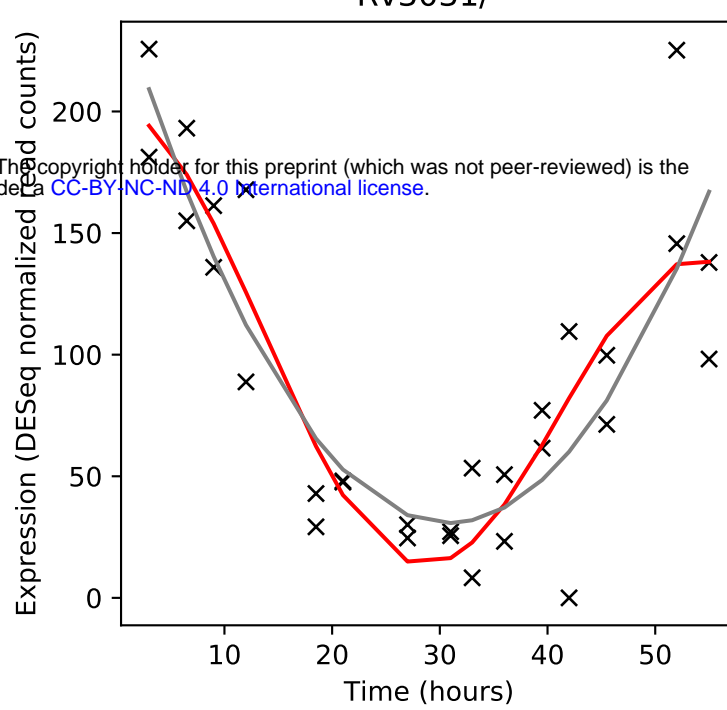
Rv3029c/fixA



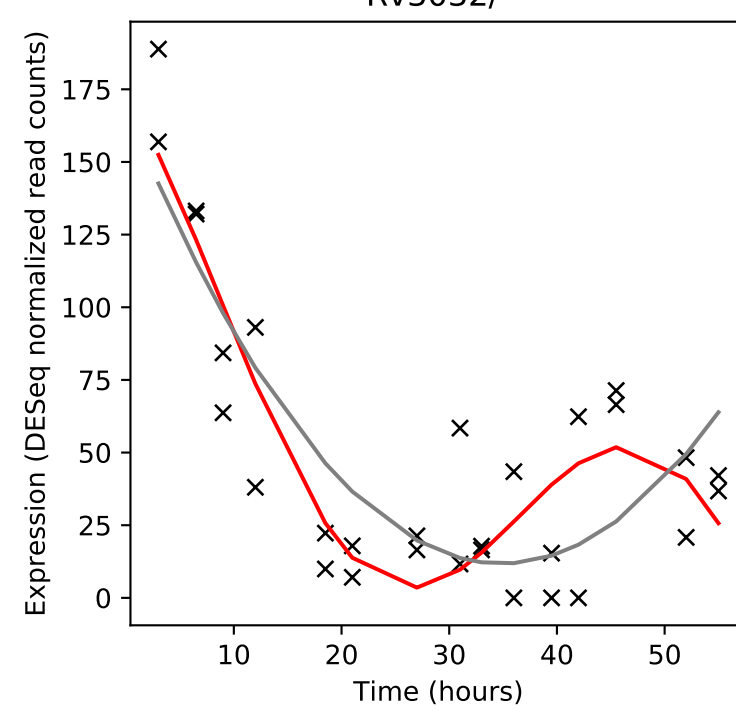
Rv3030/-



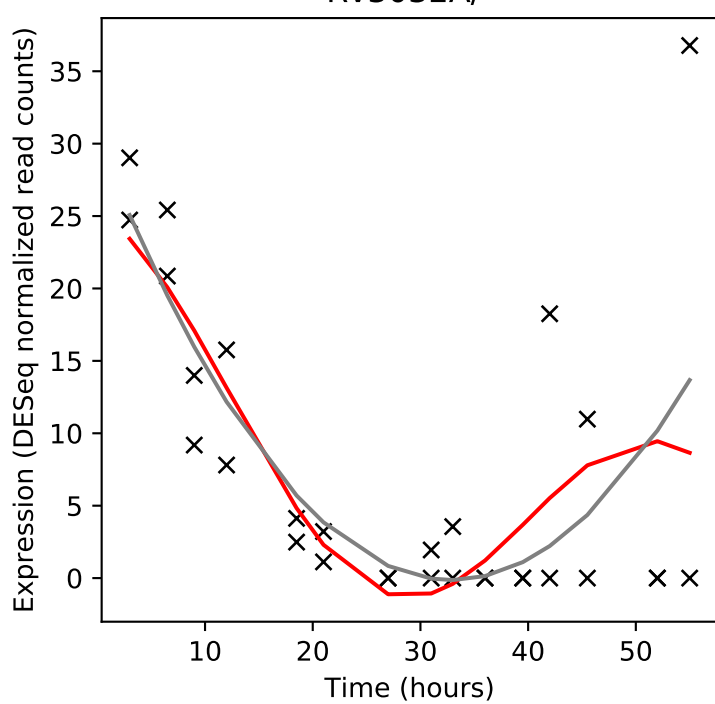
Rv3031/-



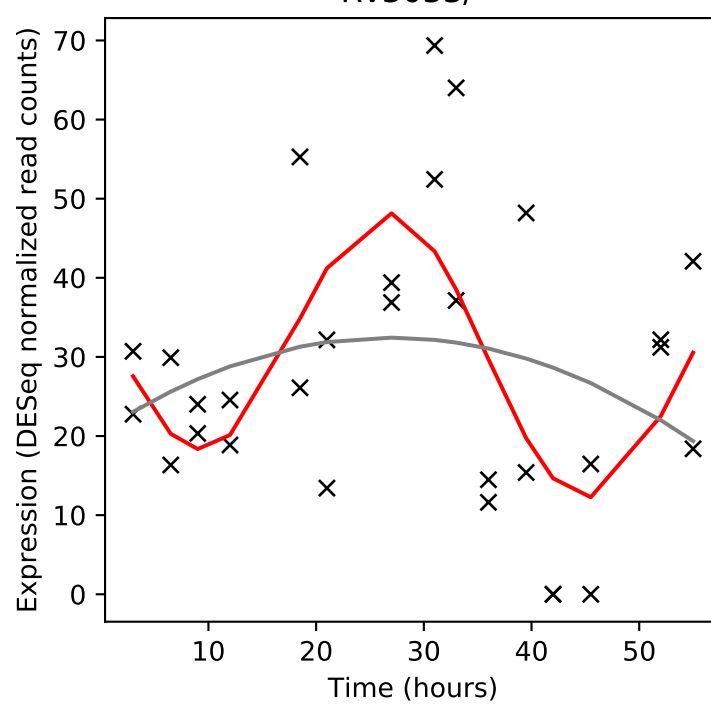
Rv3032/-



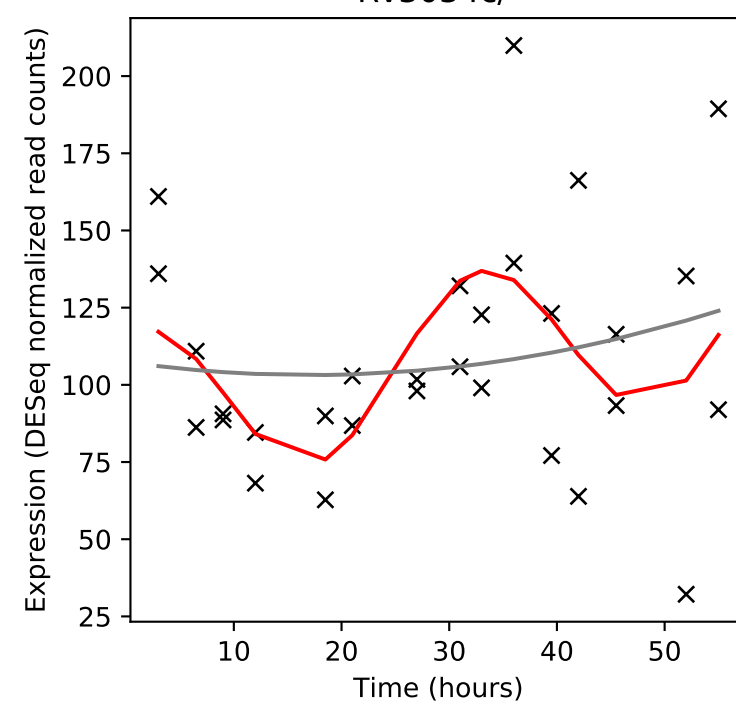
Rv3032A/-



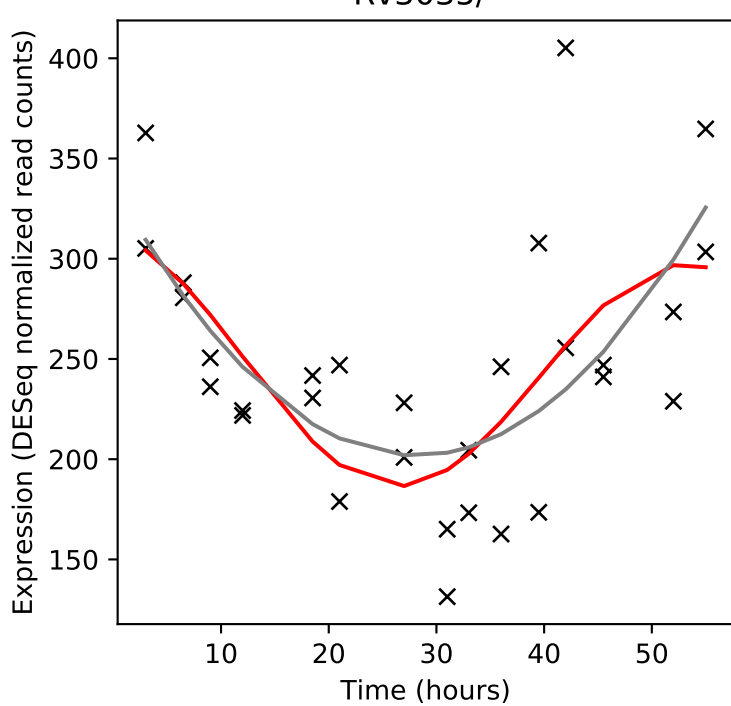
Rv3033/-



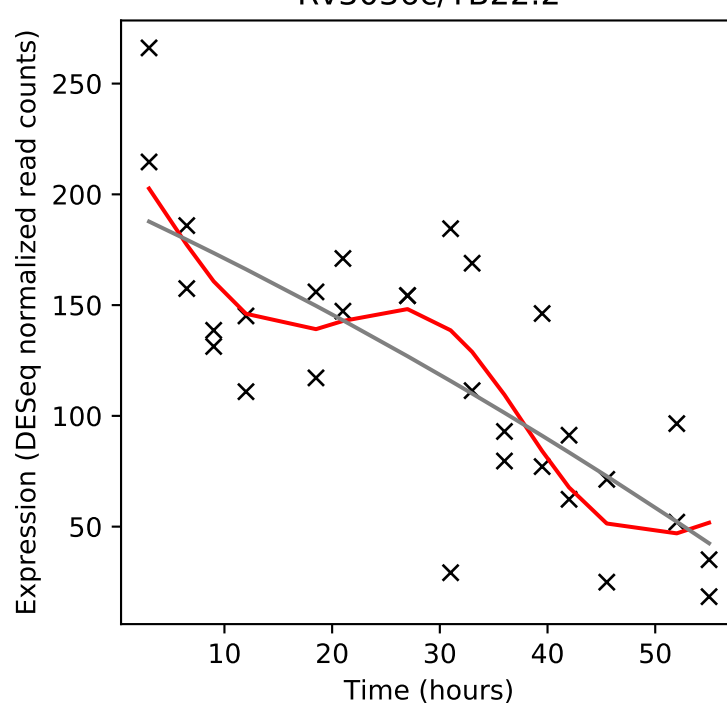
Rv3034c/-



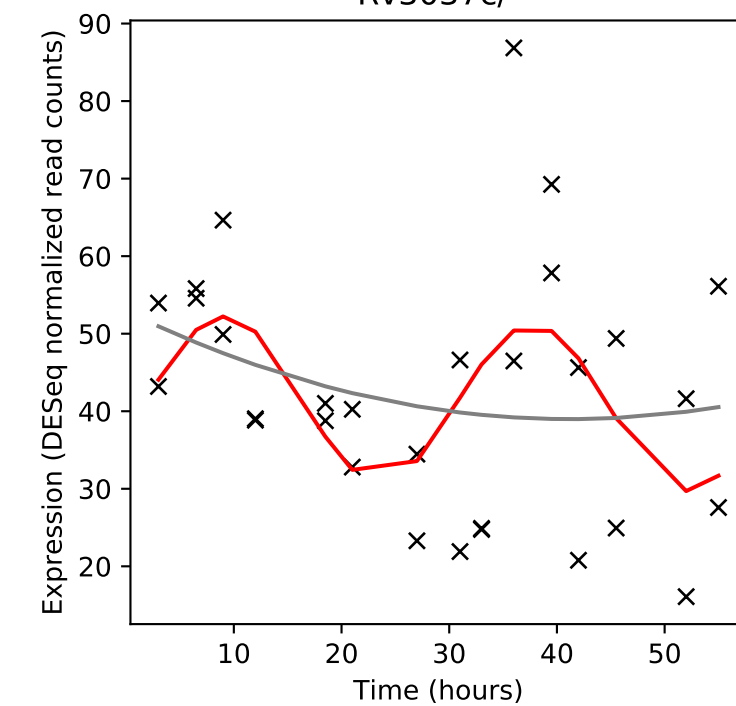
Rv3035/-



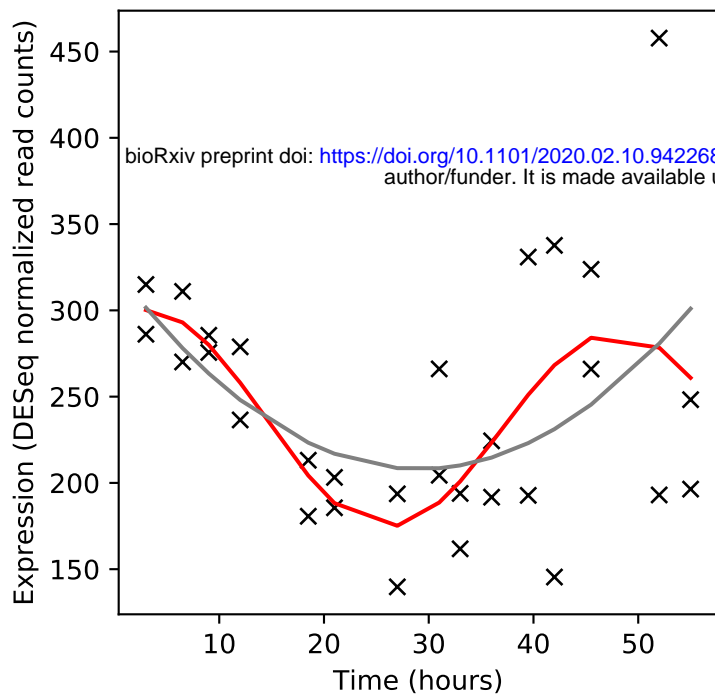
Rv3036c/TB22.2



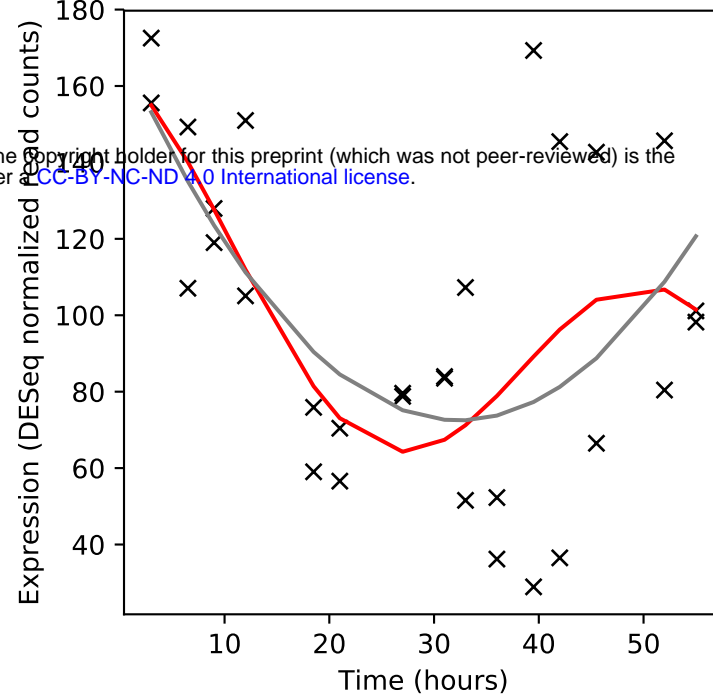
Rv3037c/-



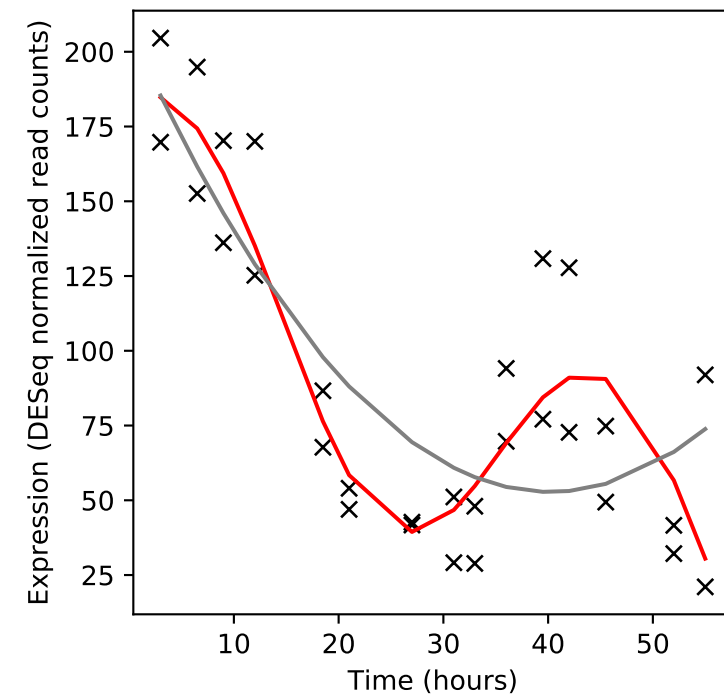
Rv3038c/-



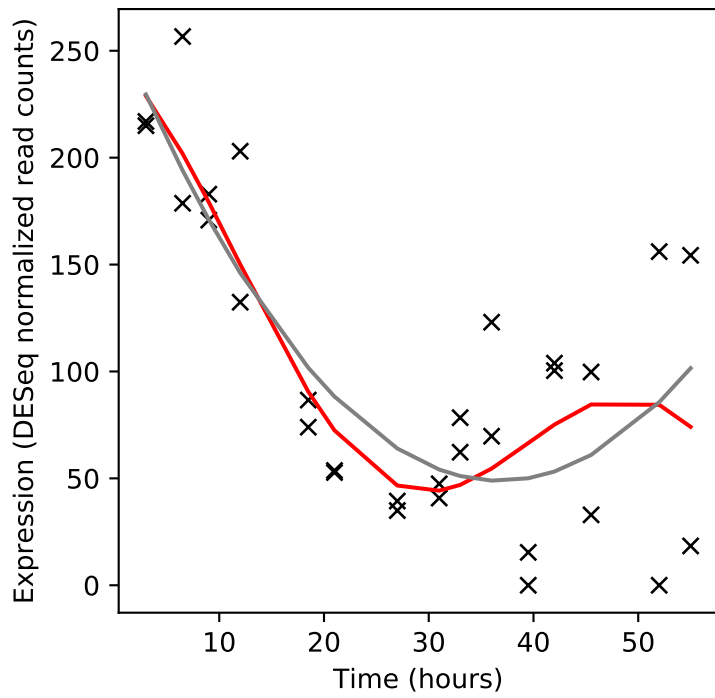
Rv3039c/echA17



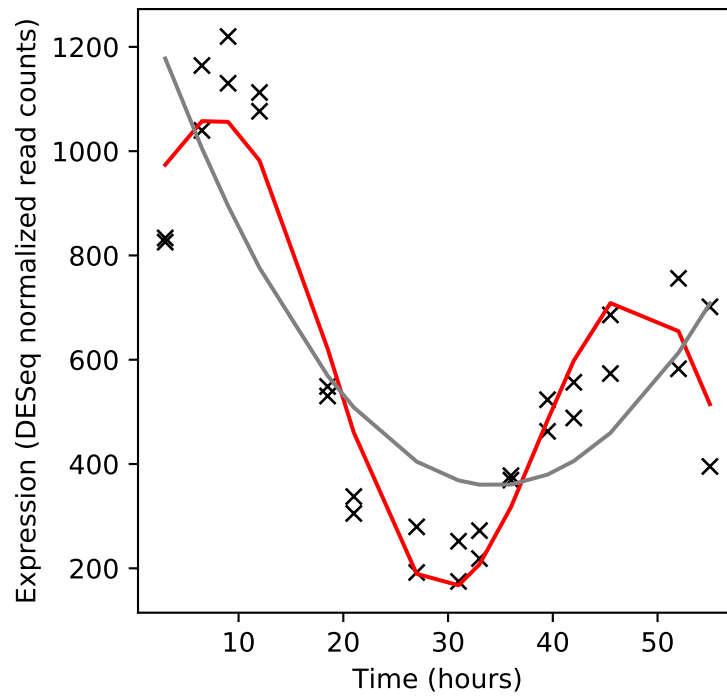
Rv3040c/-



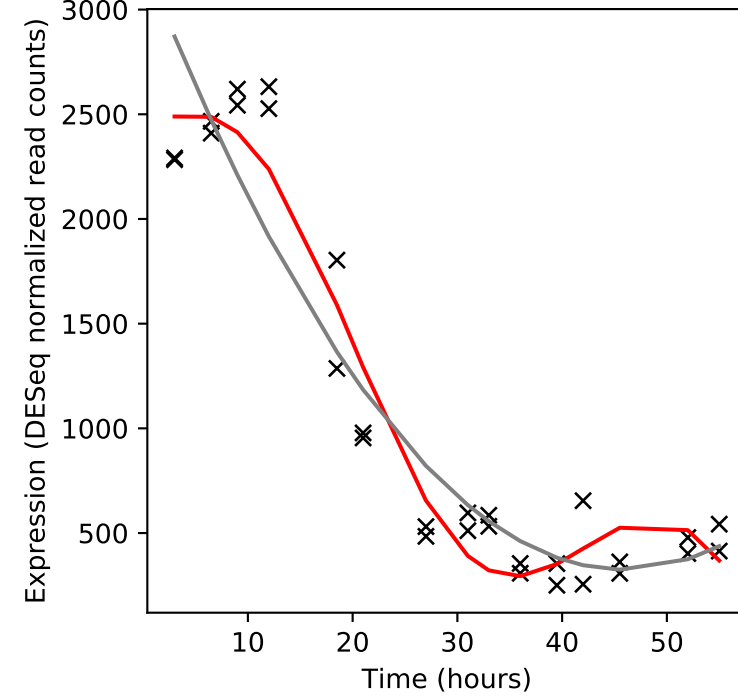
Rv3041c/-



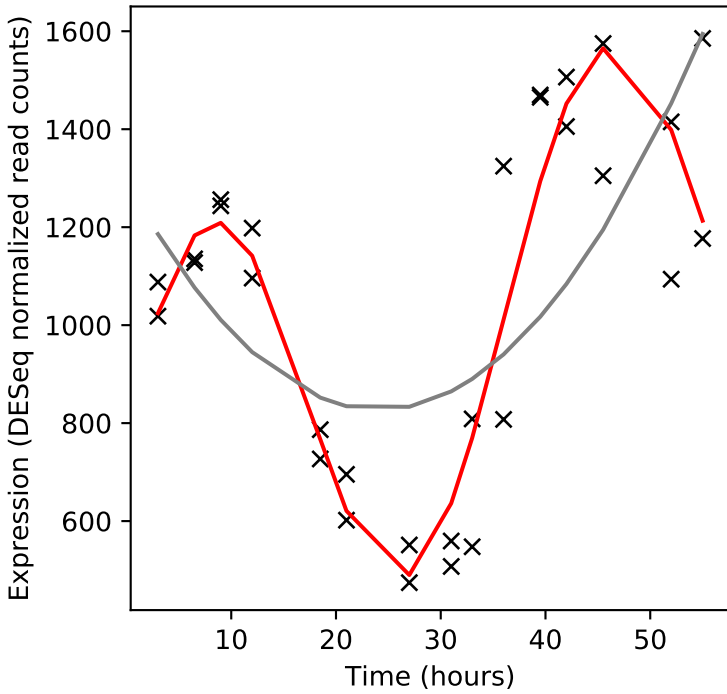
Rv3042c/serB2



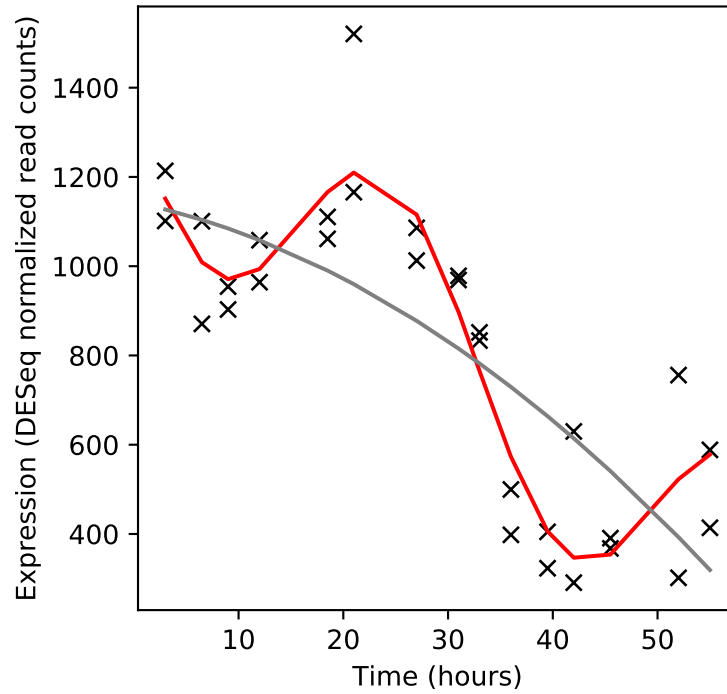
Rv3043c/ctaD



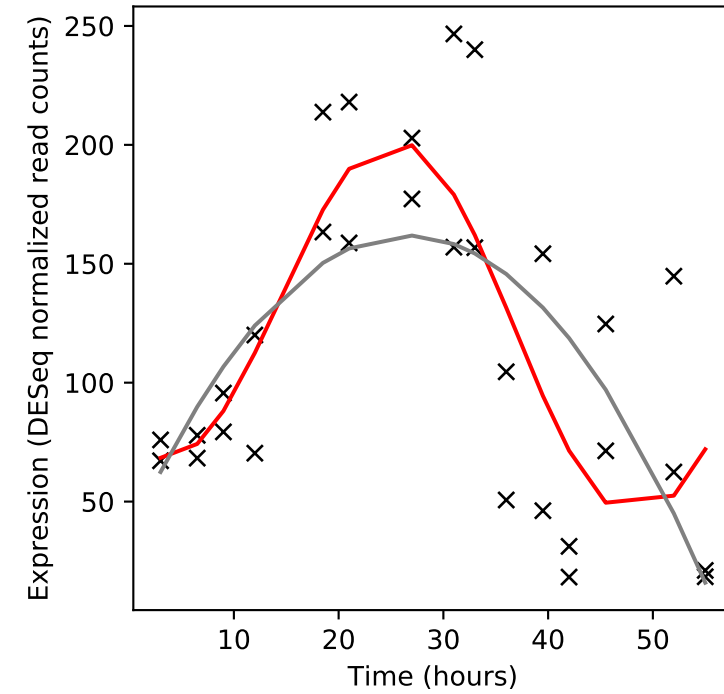
Rv3044/fecB



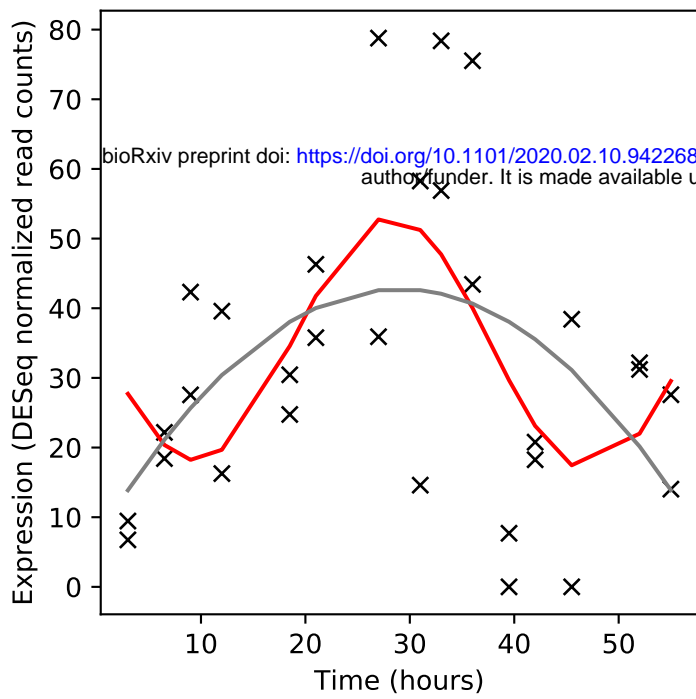
Rv3045/adhC



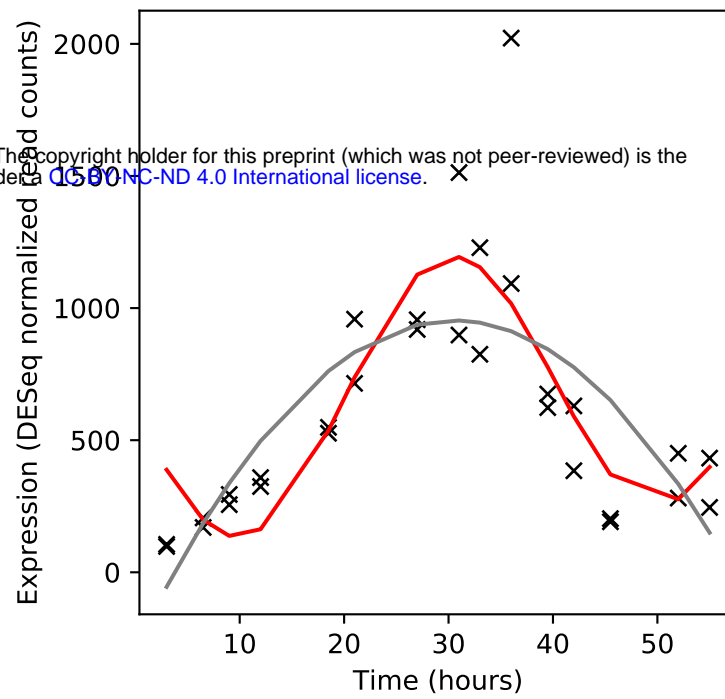
Rv3046c/-



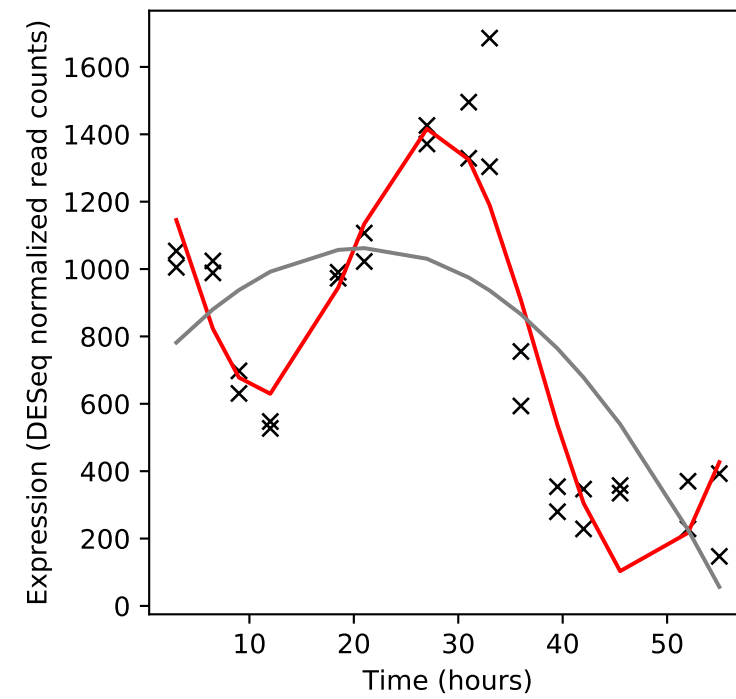
Rv3047c/-



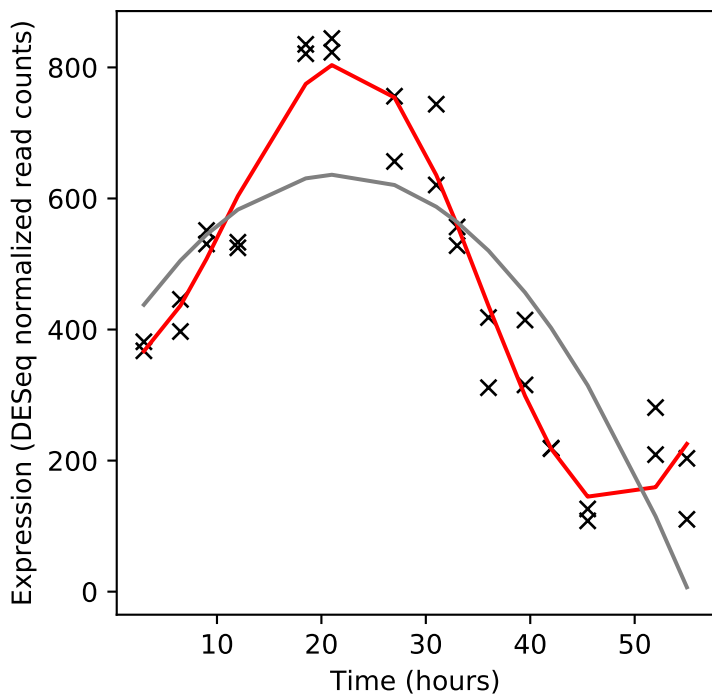
Rv3048c/nrdF2



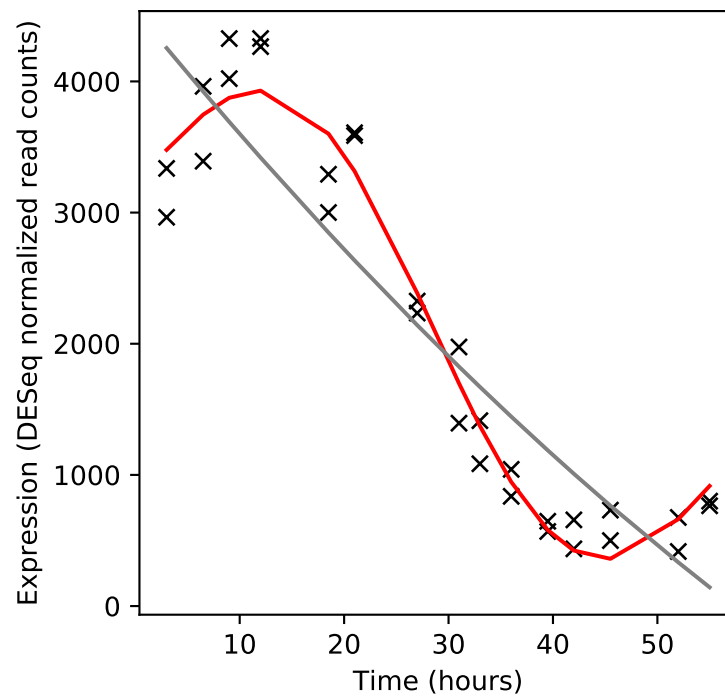
Rv3049c/-



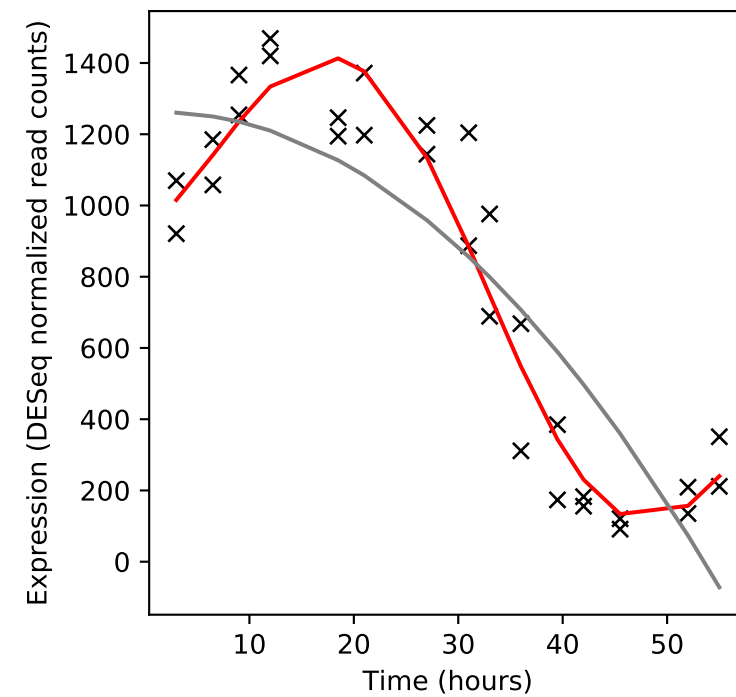
Rv3050c/-



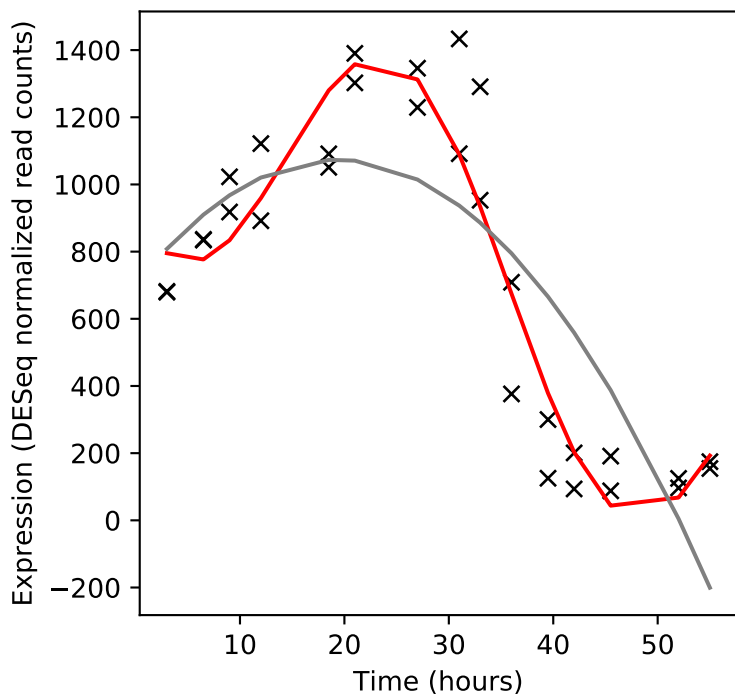
Rv3051c/nrdE



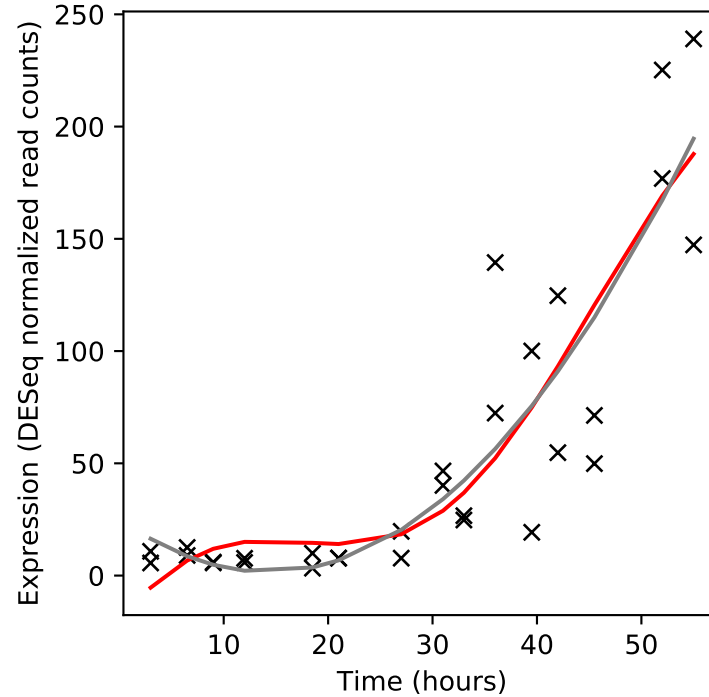
Rv3052c/nrdI



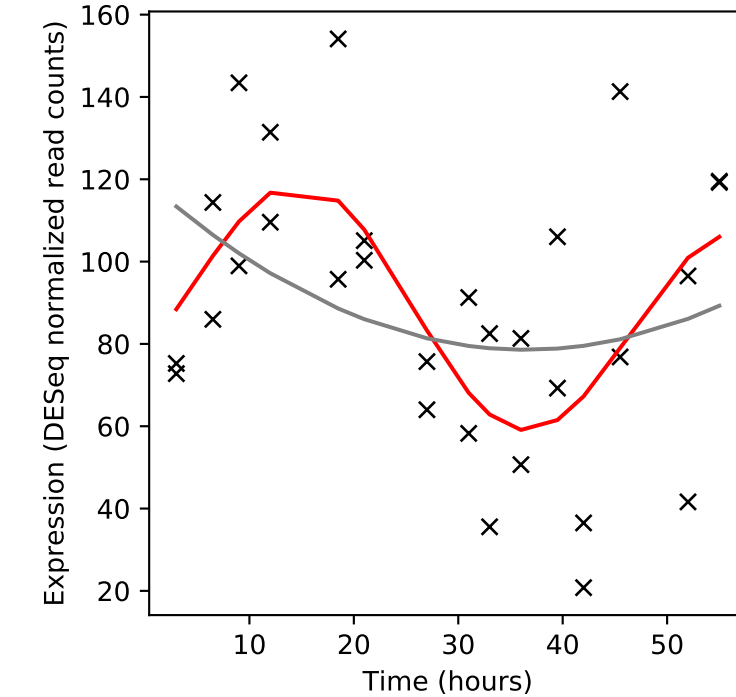
Rv3053c/nrdH



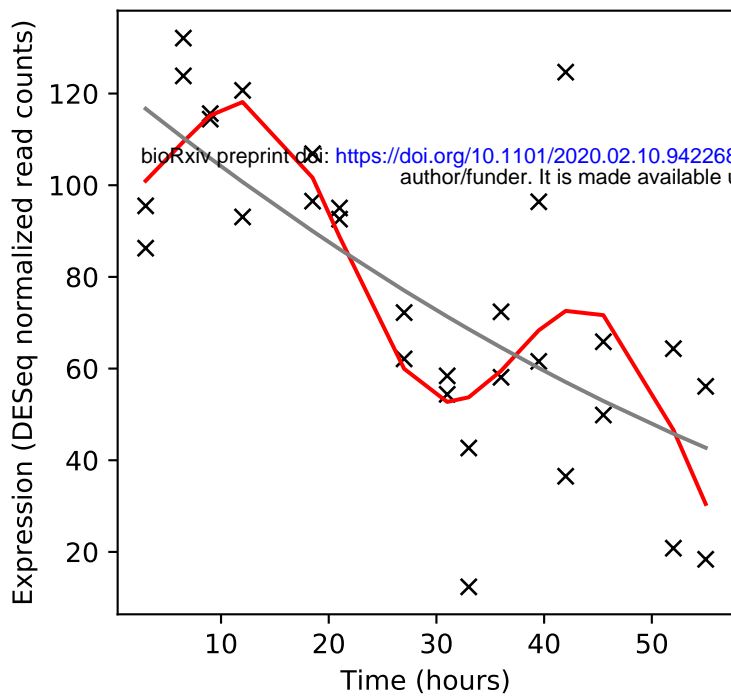
Rv3054c/-



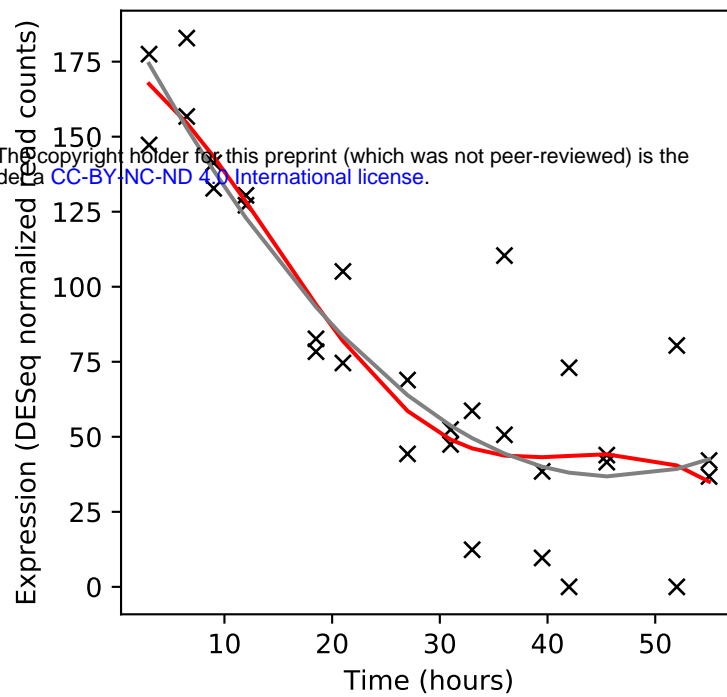
Rv3055/-



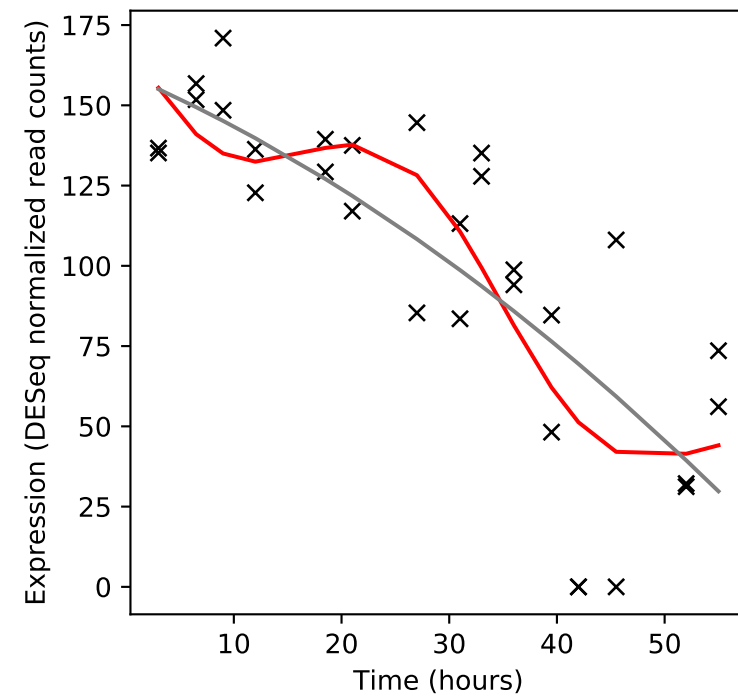
Rv3056/dinP



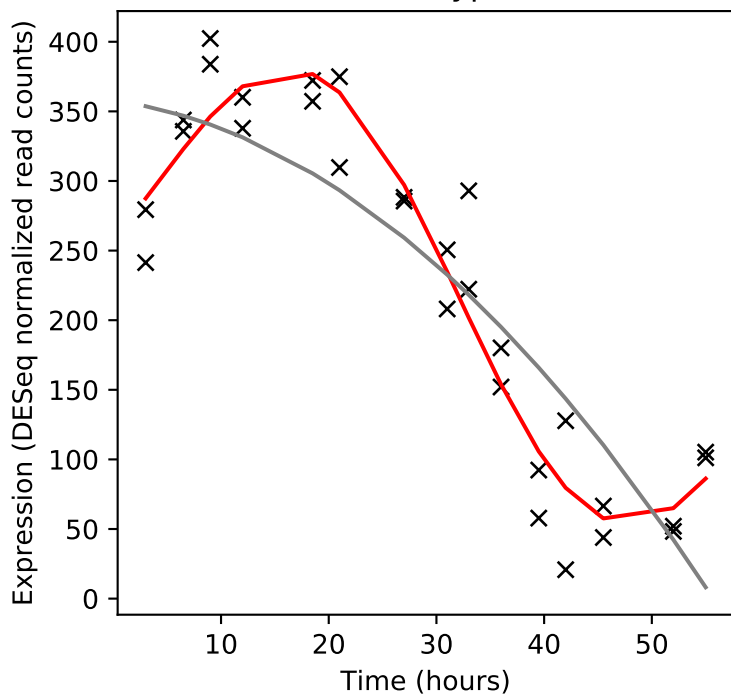
Rv3057c/-



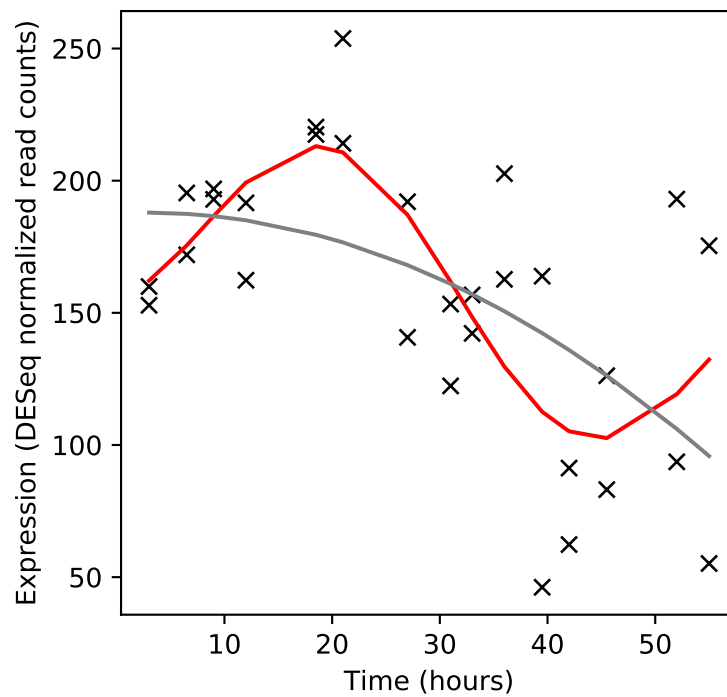
Rv3058c/-



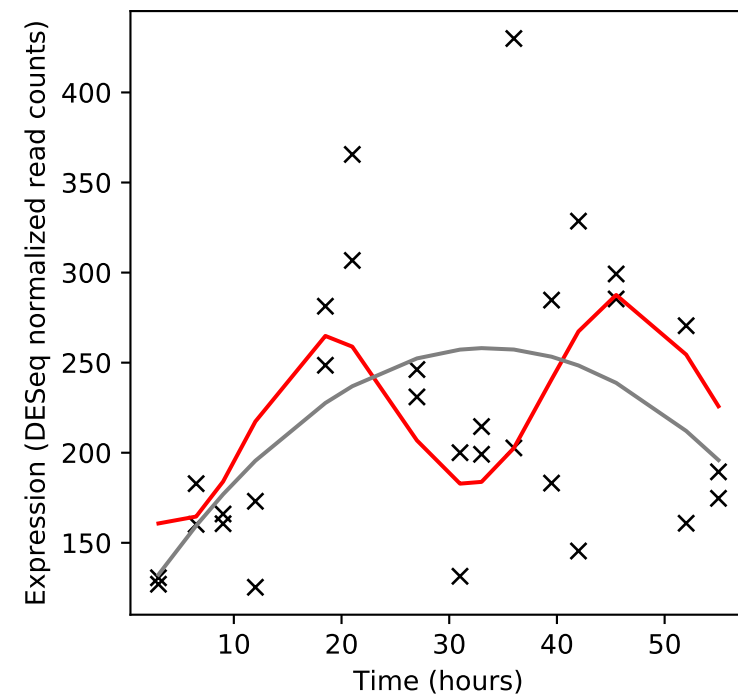
Rv3059/cyp136



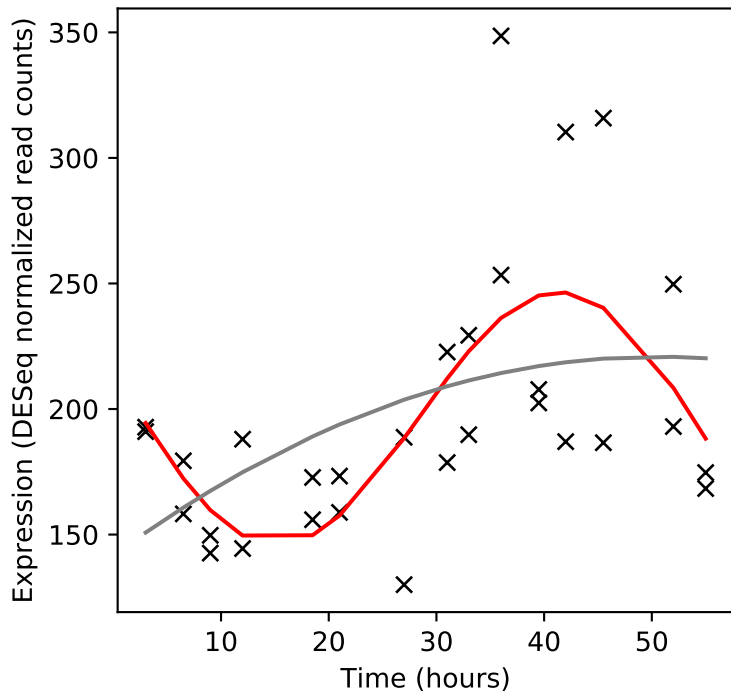
Rv3060c/-



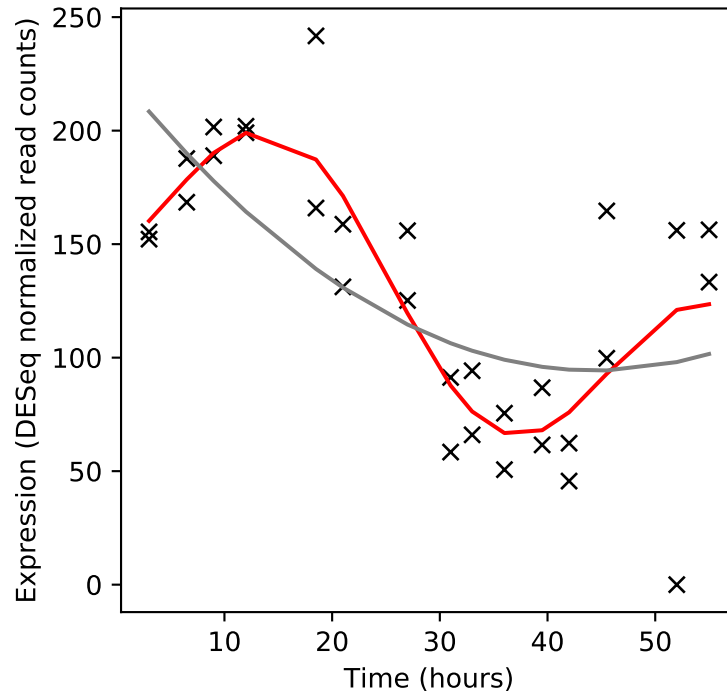
Rv3061c/fadE22



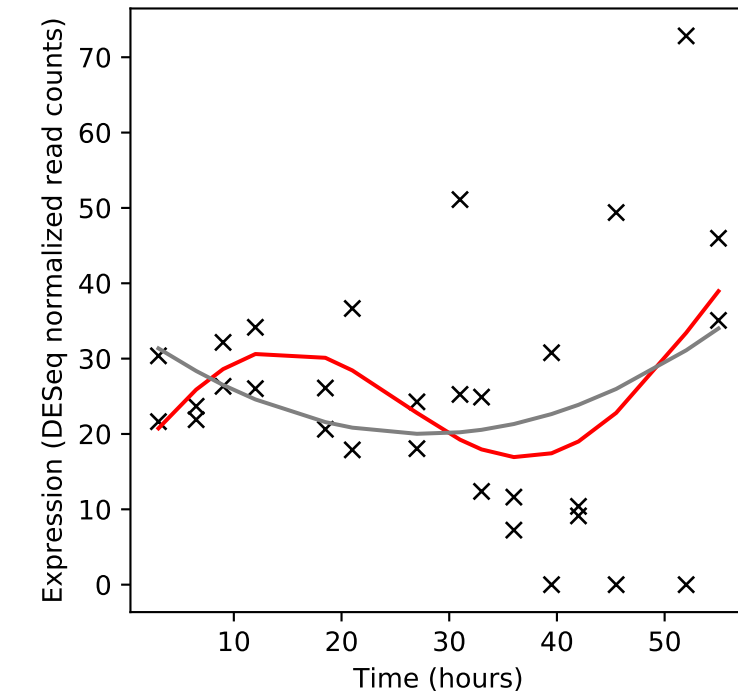
Rv3062/ligB



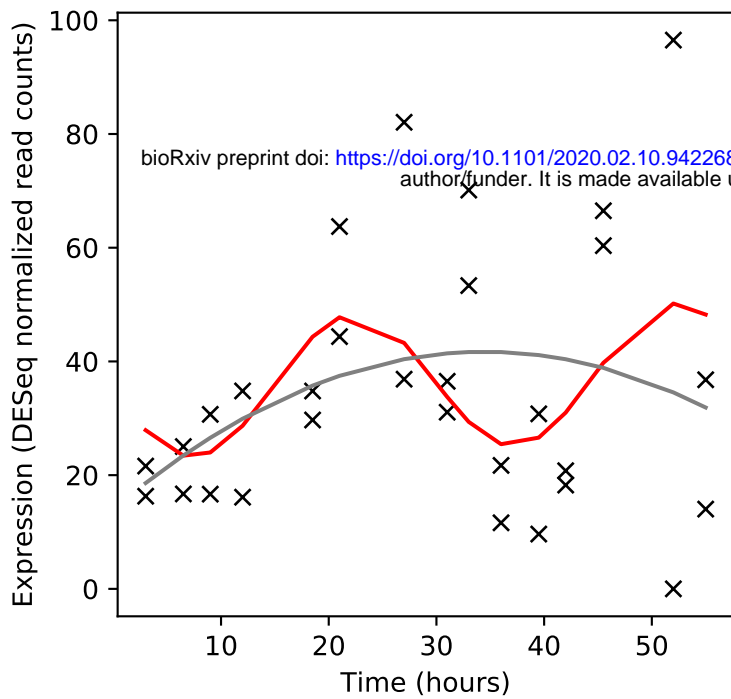
Rv3063/cstA



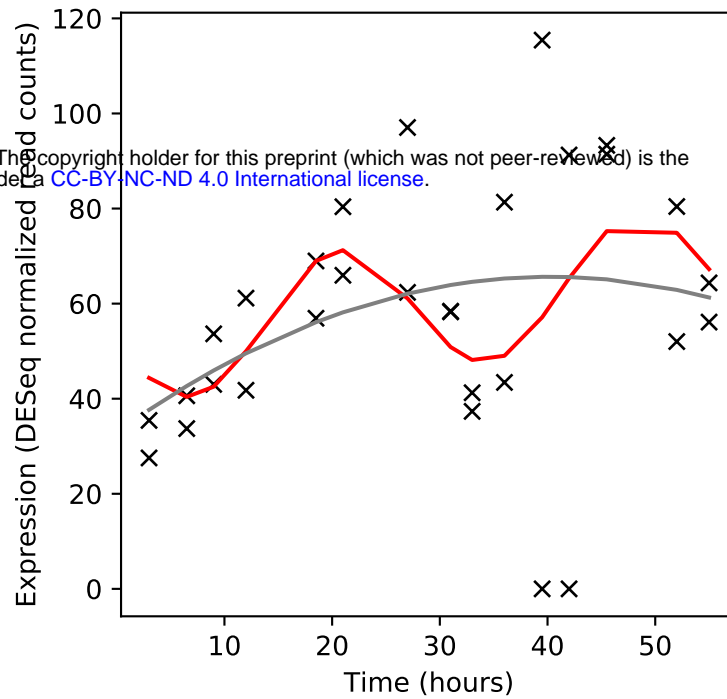
Rv3064c/-



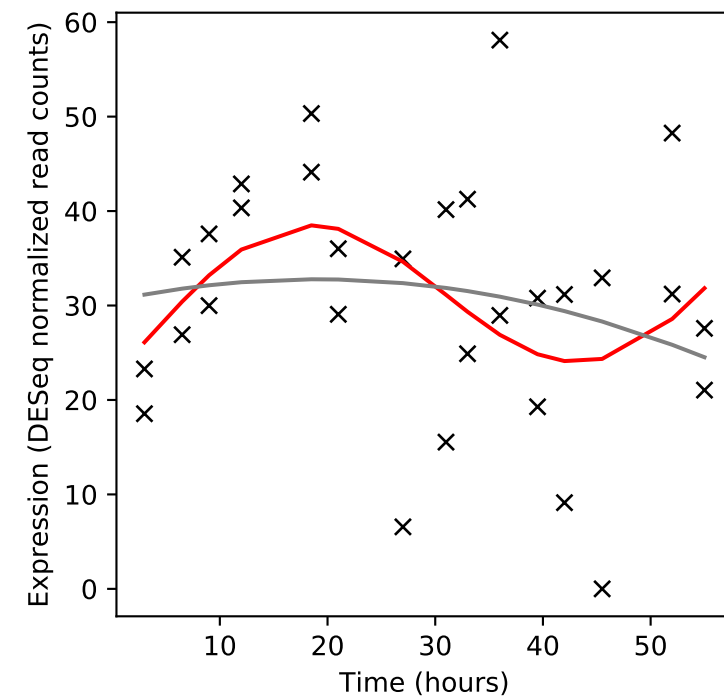
Rv3065/mmr



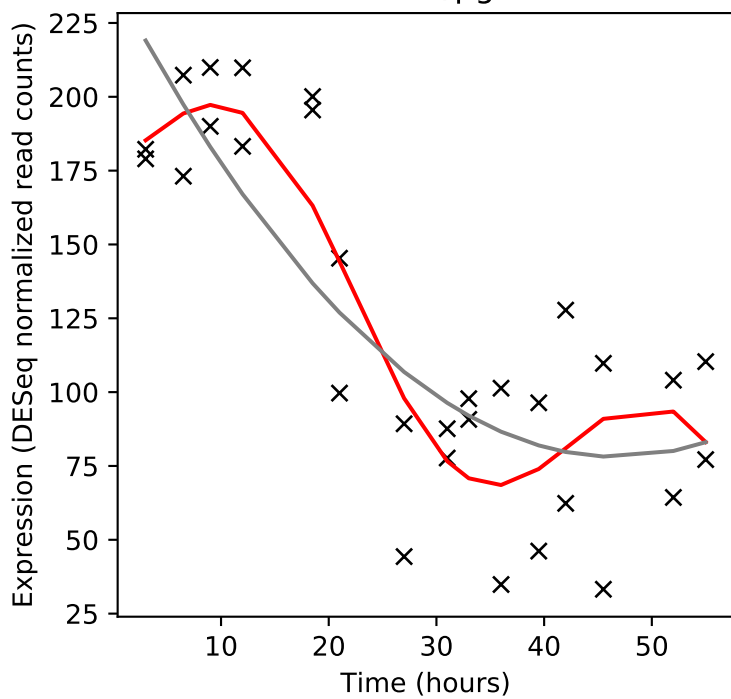
Rv3066/-



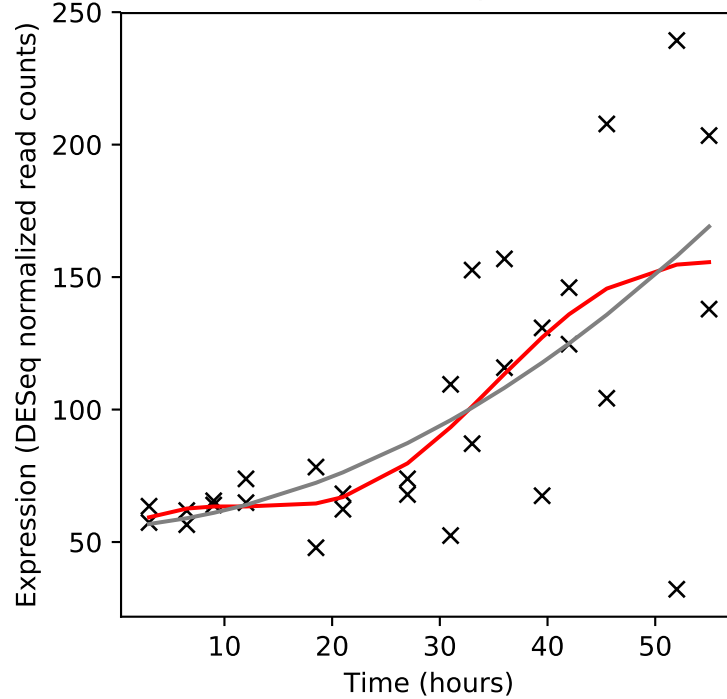
Rv3067/-



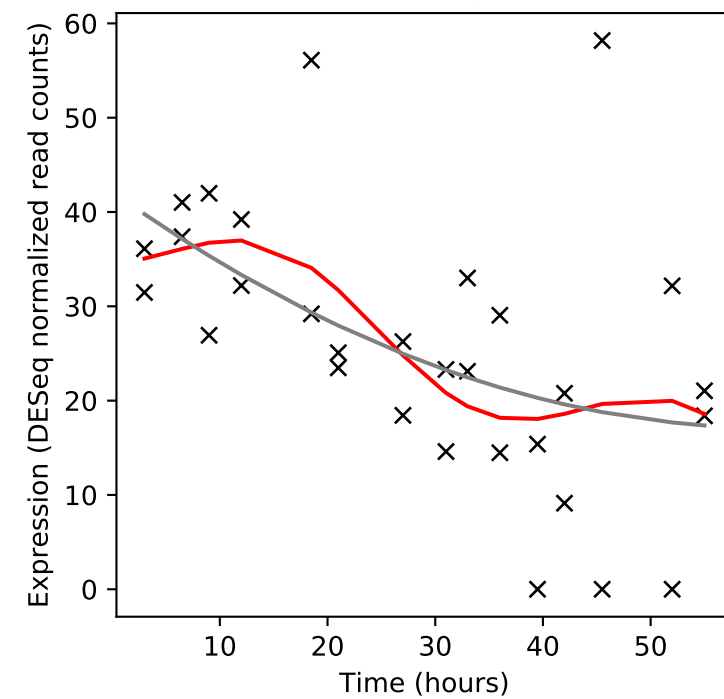
Rv3068c/pgmA



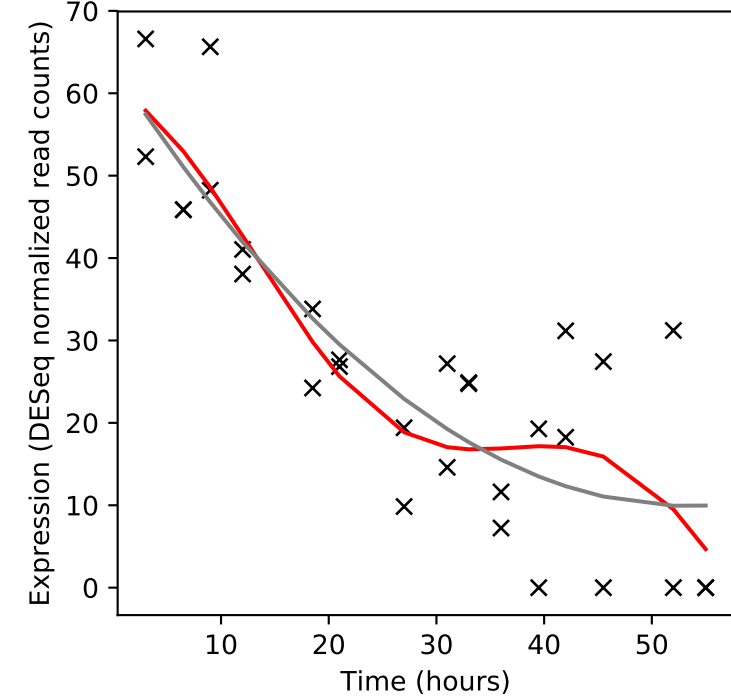
Rv3069/-



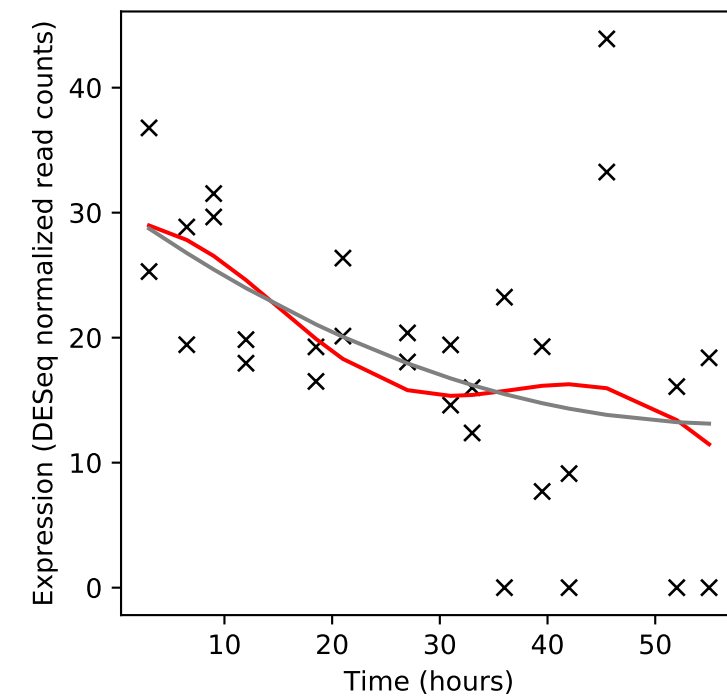
Rv3070/-



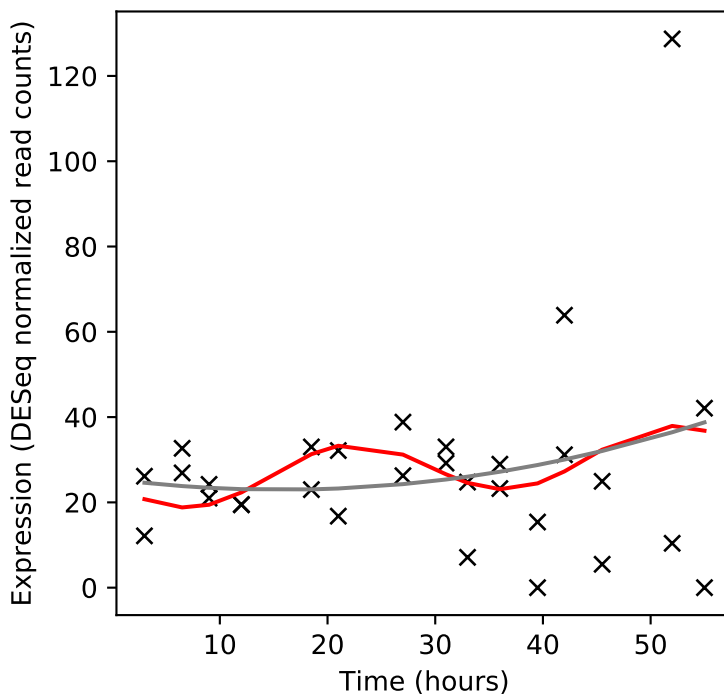
Rv3071/-



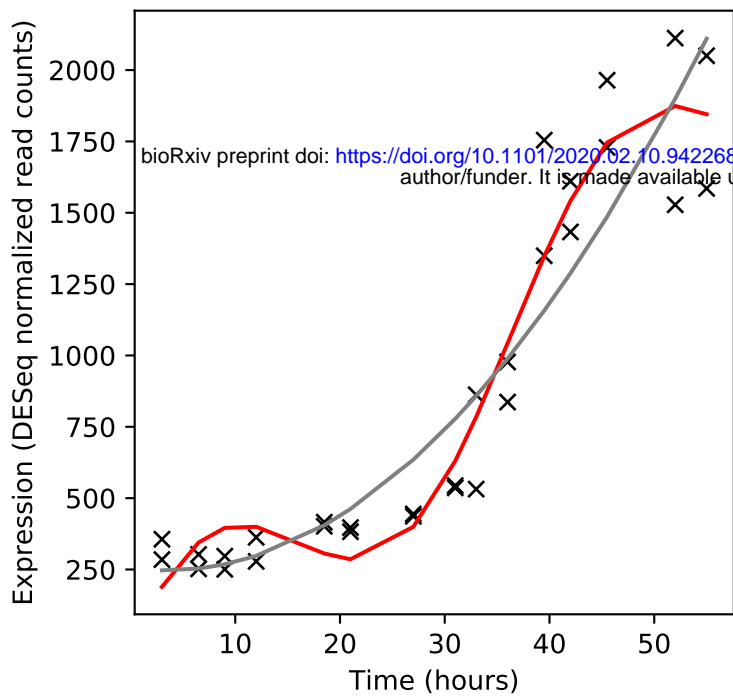
Rv3072c/-



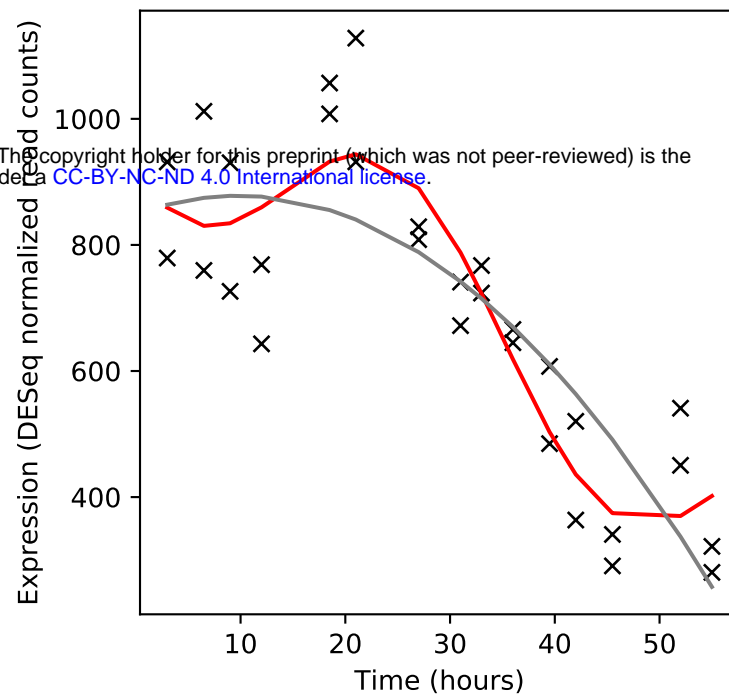
Rv3073c/-



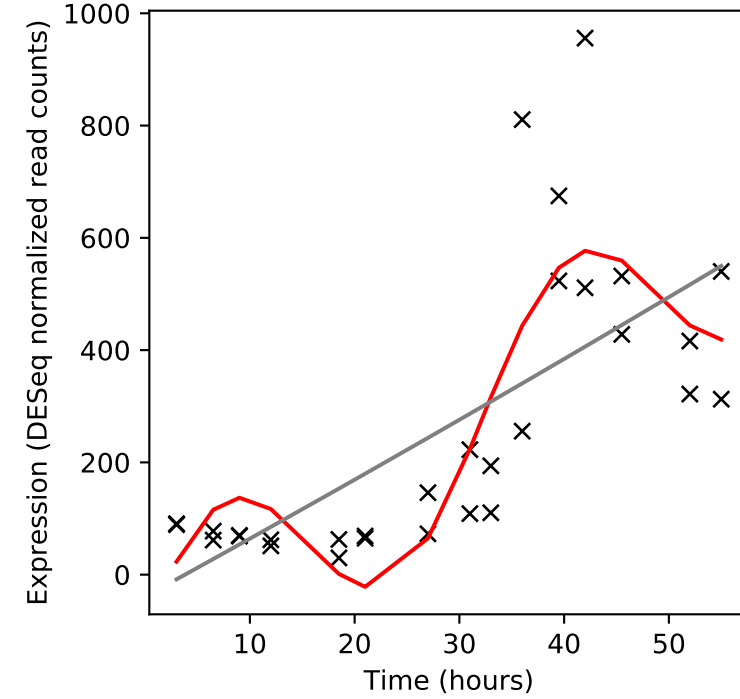
Rv3074/-



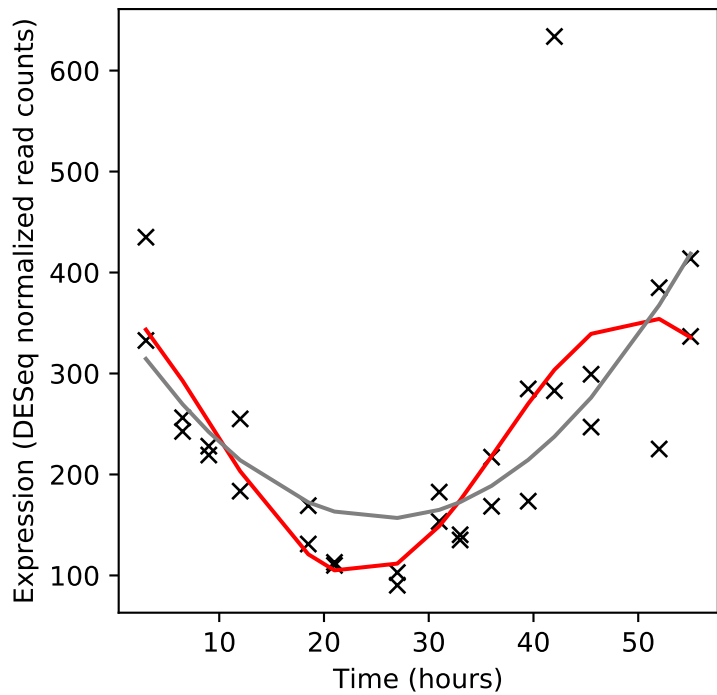
Rv3075c/-



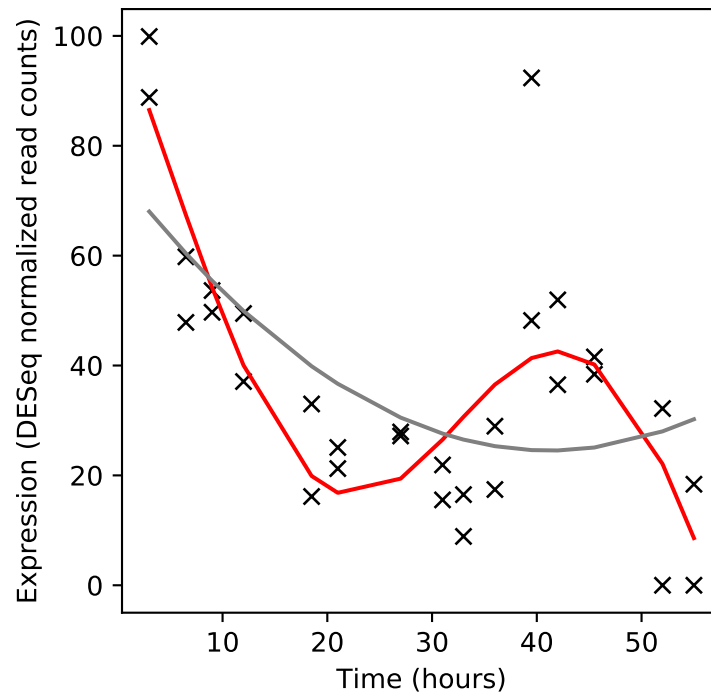
Rv3076/-



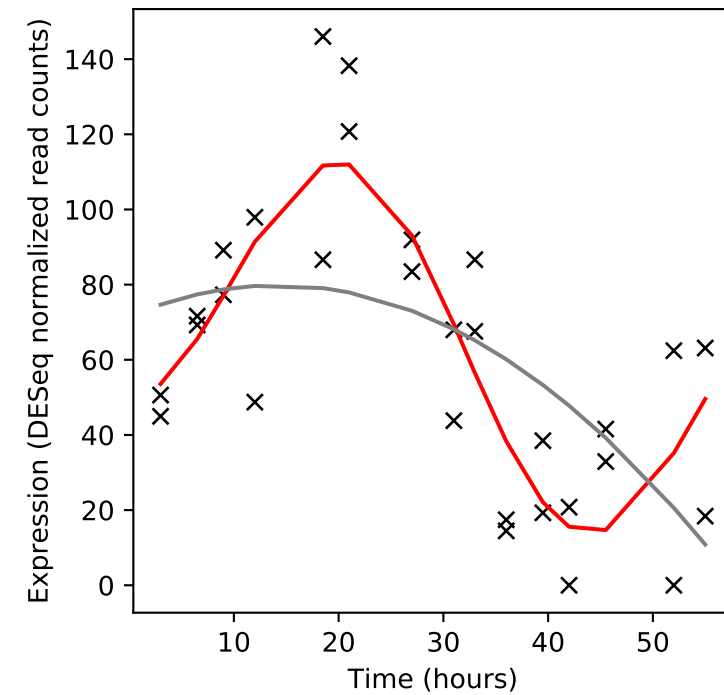
Rv3077/-



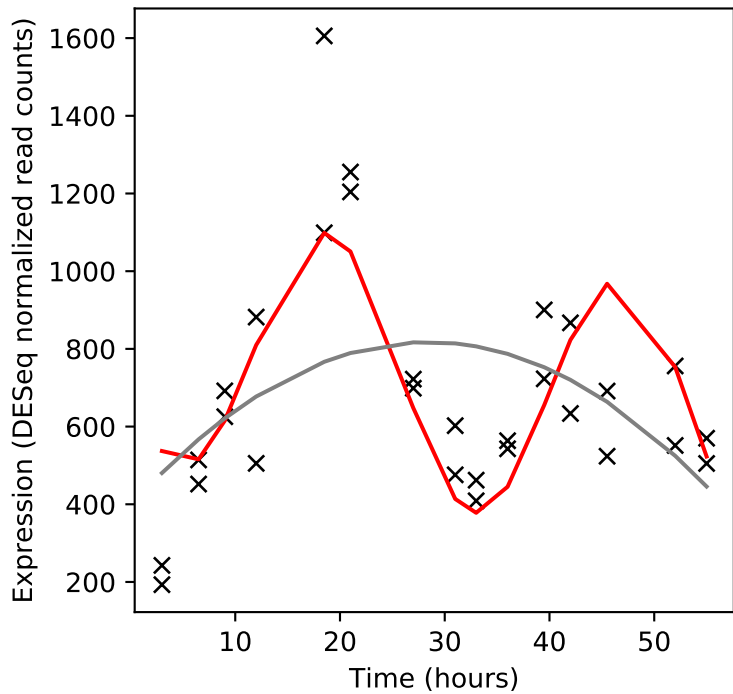
Rv3078/hab



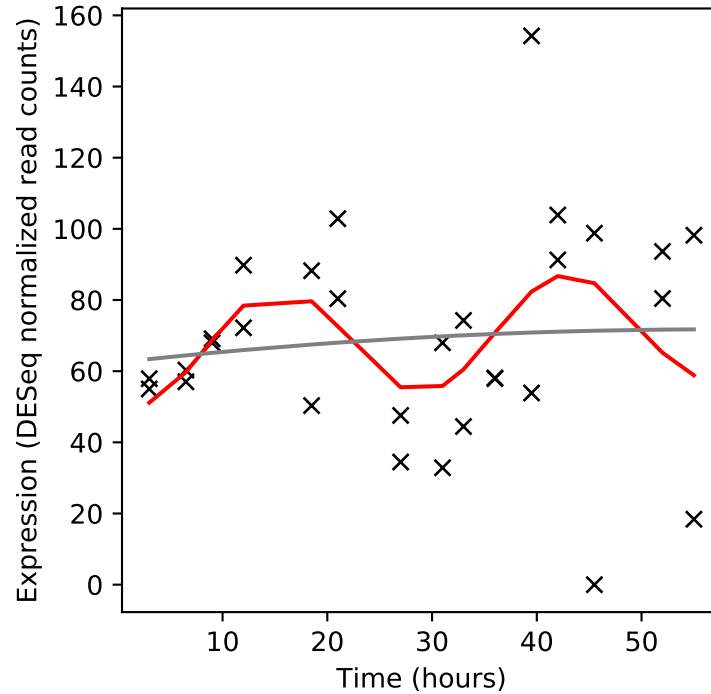
Rv3079c/-



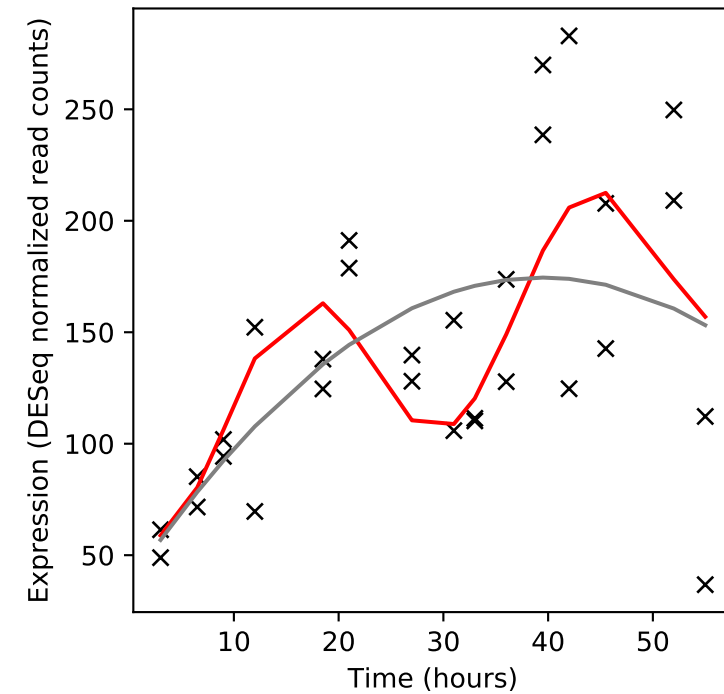
Rv3080c/pknK



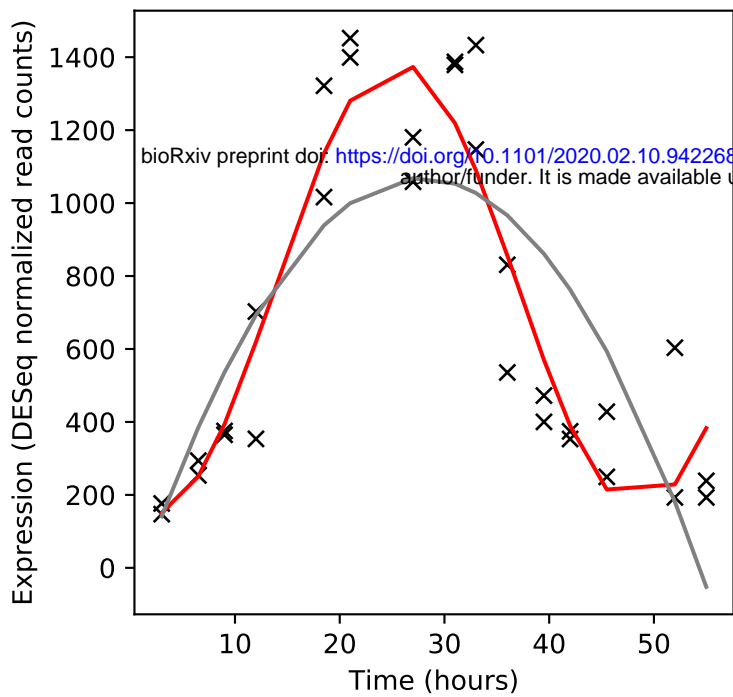
Rv3081/-



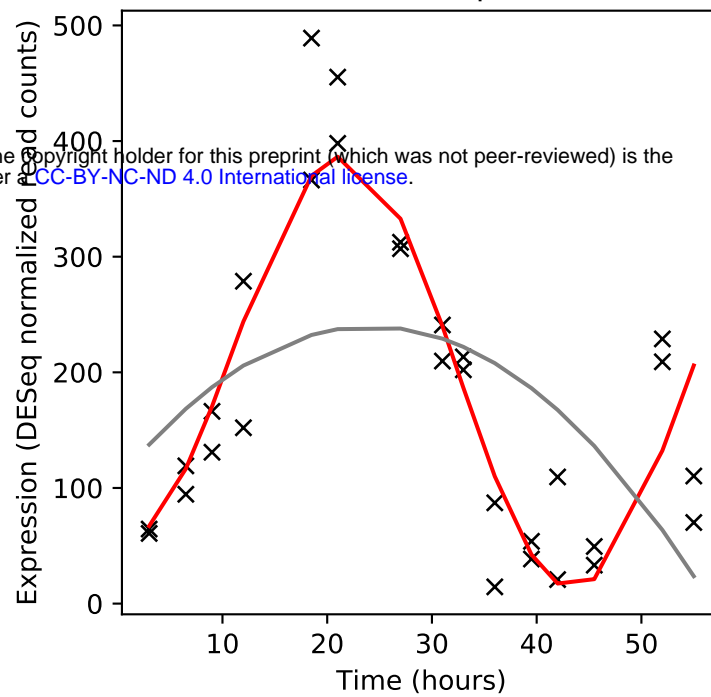
Rv3082c/virS



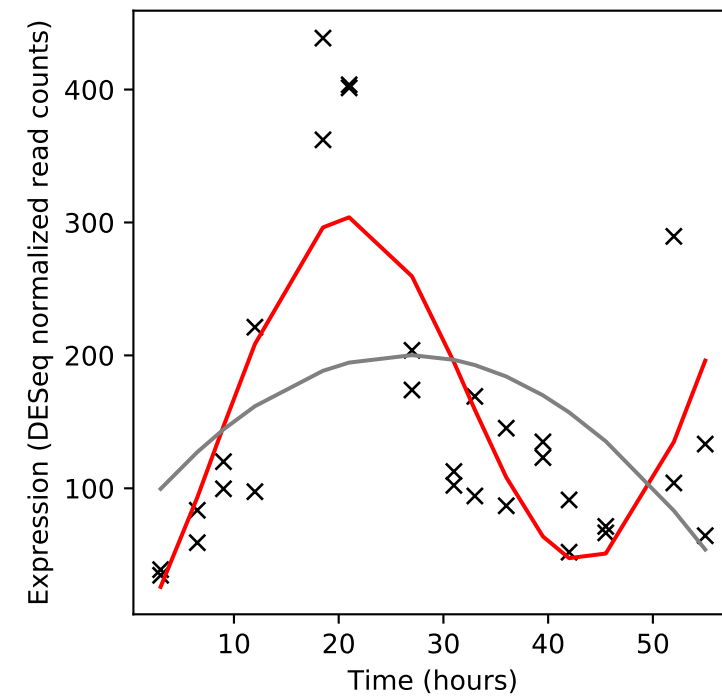
Rv3083/-



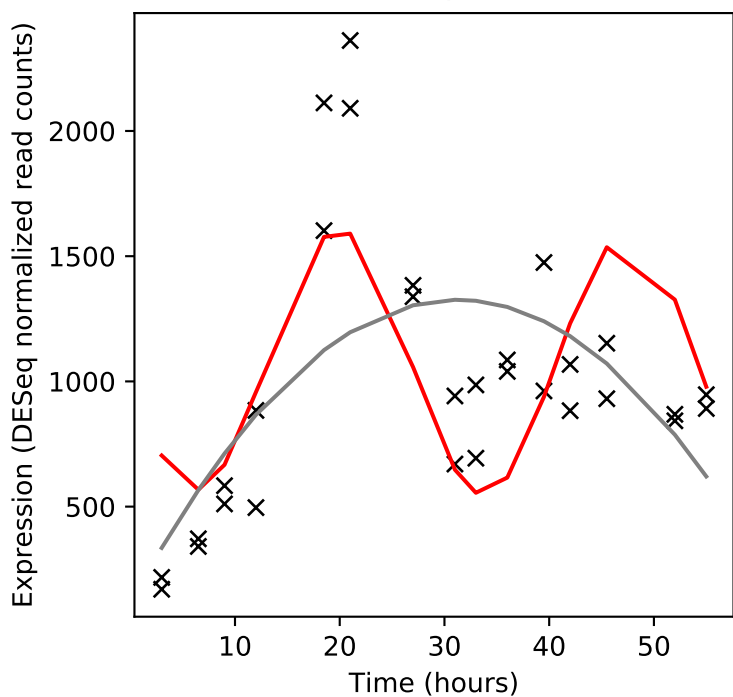
Rv3084/lipR



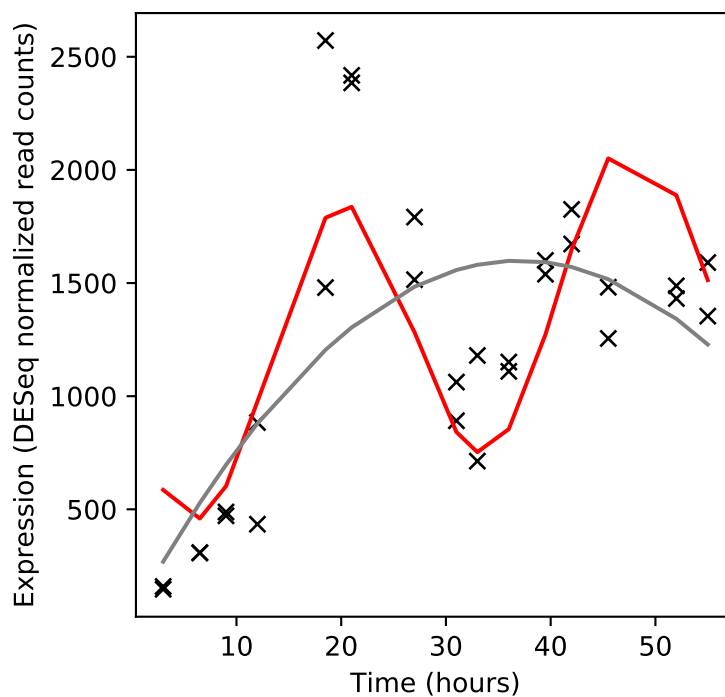
Rv3085/-



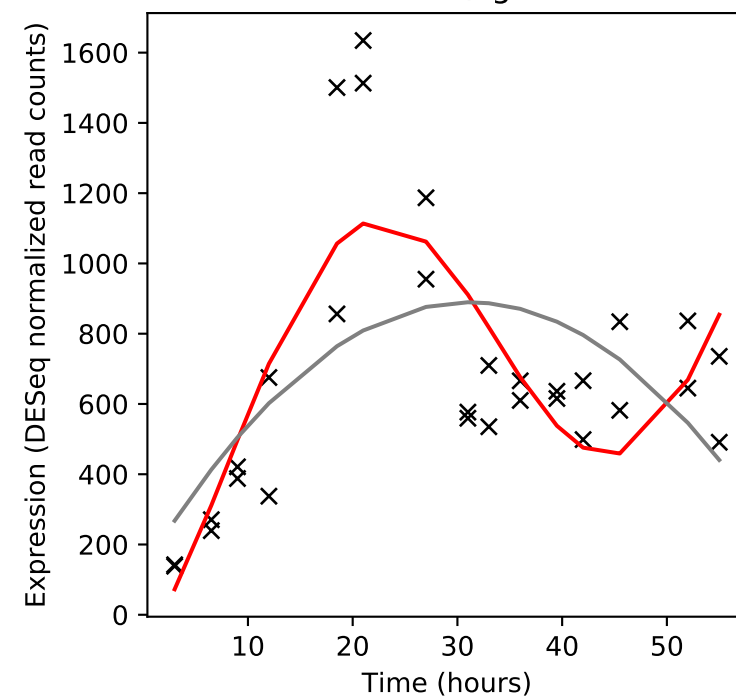
Rv3086/adhD



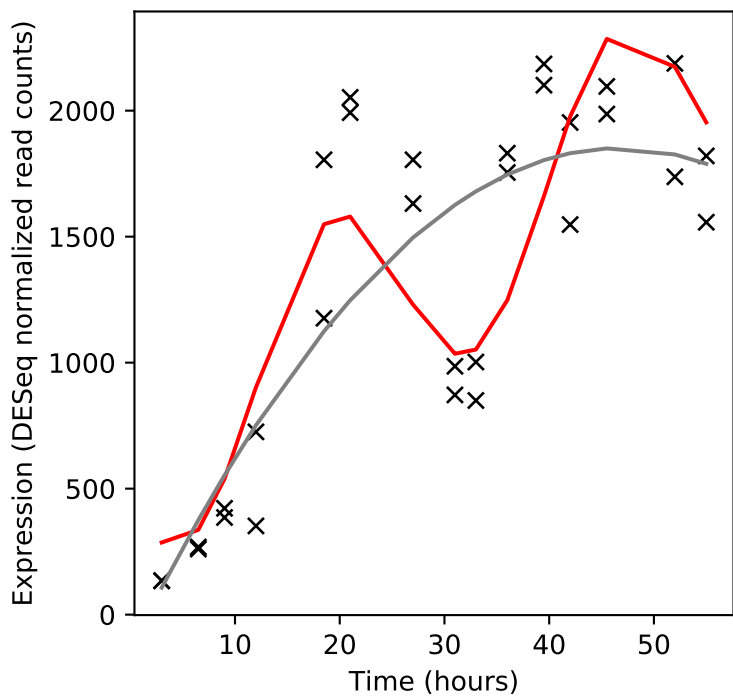
Rv3087/-



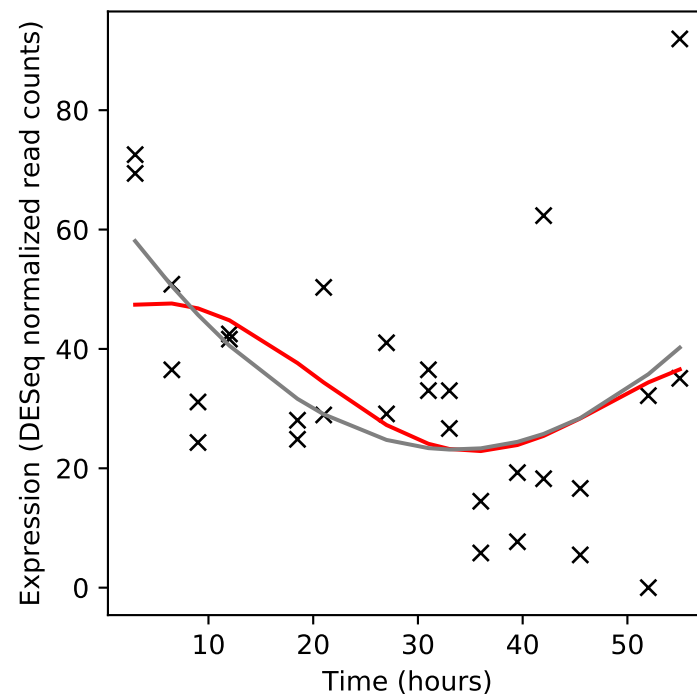
Rv3088/tgs4



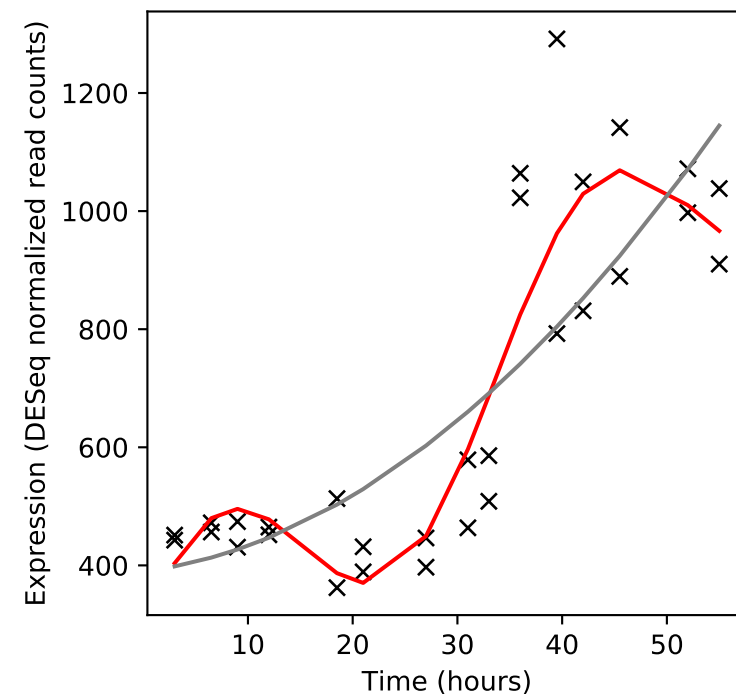
Rv3089/fadD13



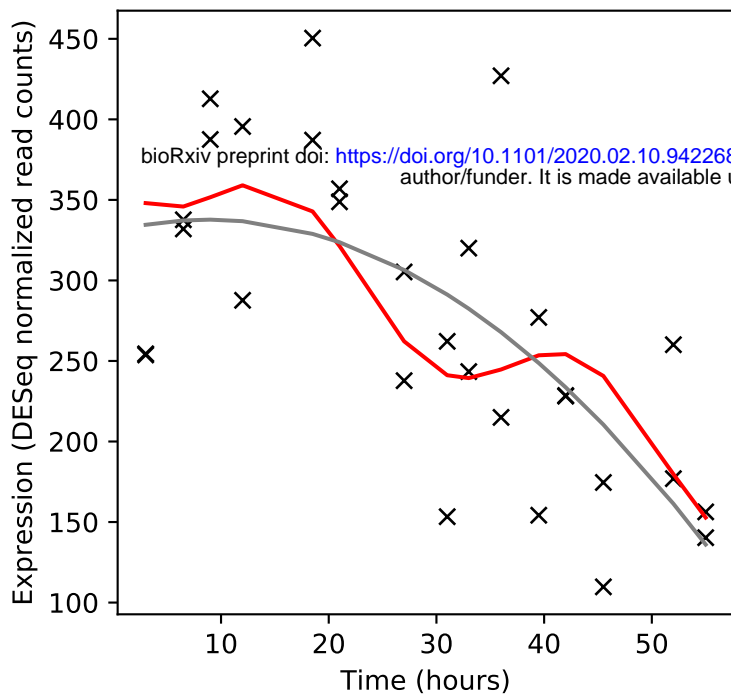
Rv3090/-



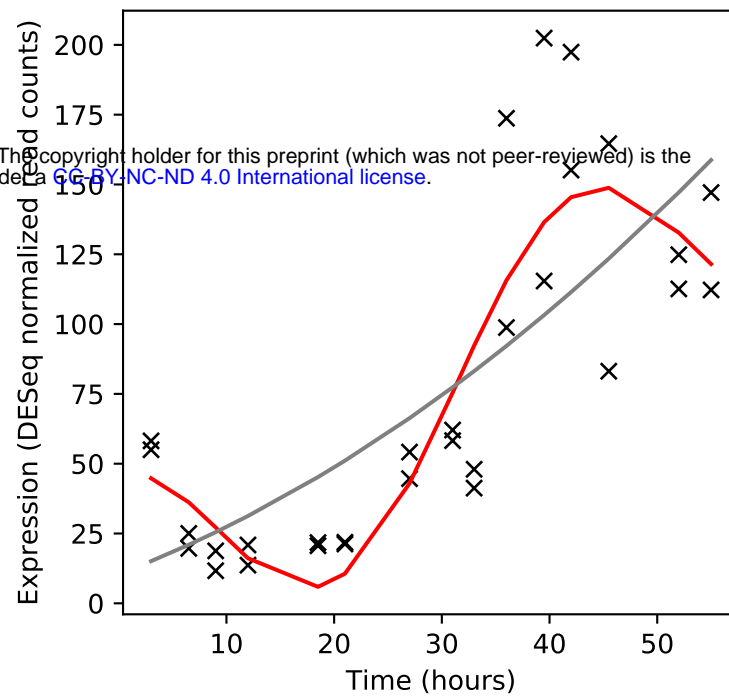
Rv3091/-



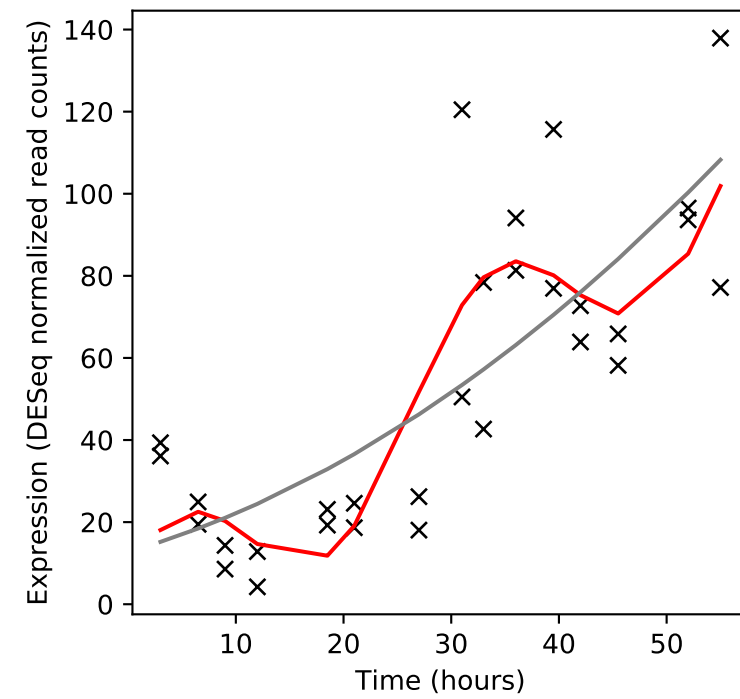
Rv3092c/-



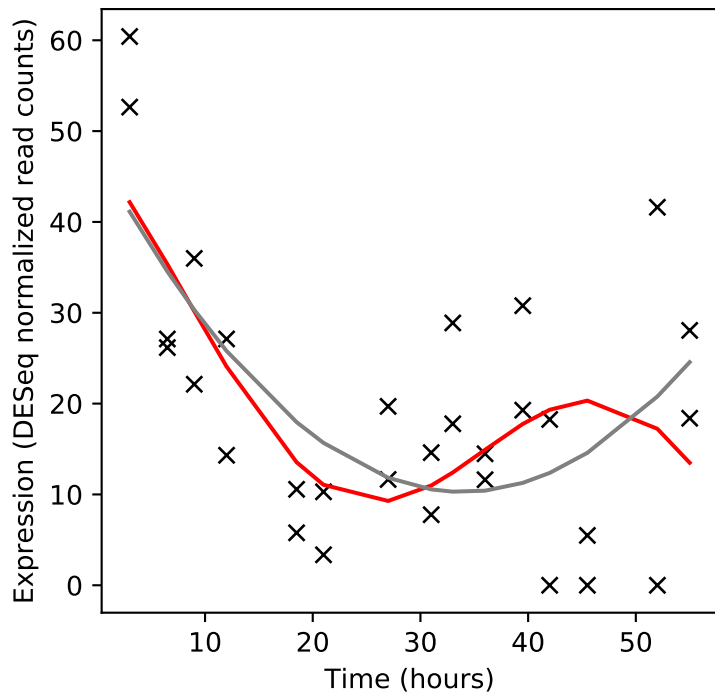
Rv3093c/-



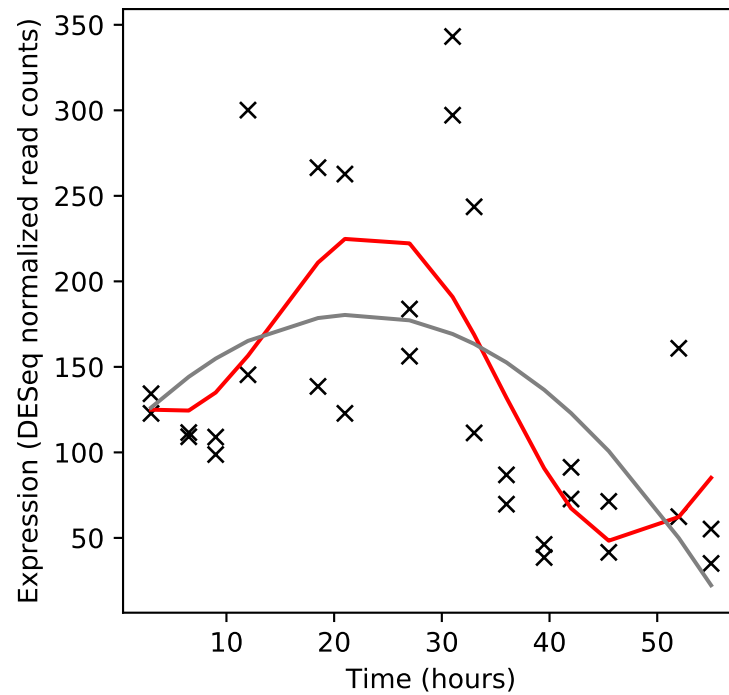
Rv3094c/-



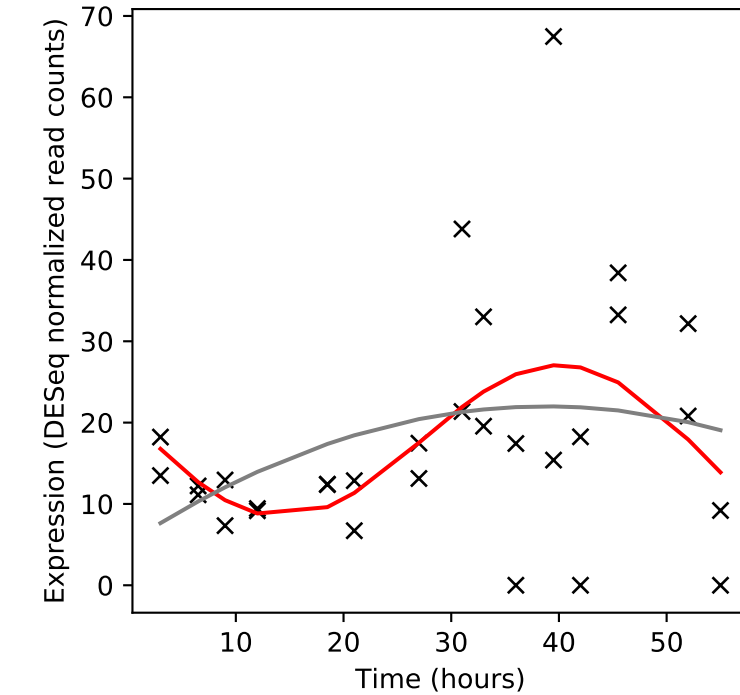
Rv3095/-



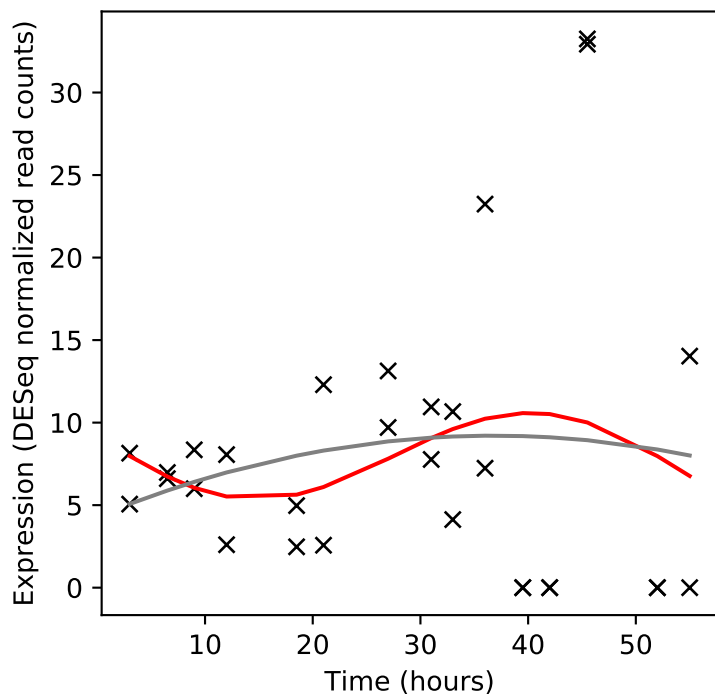
Rv3096/-



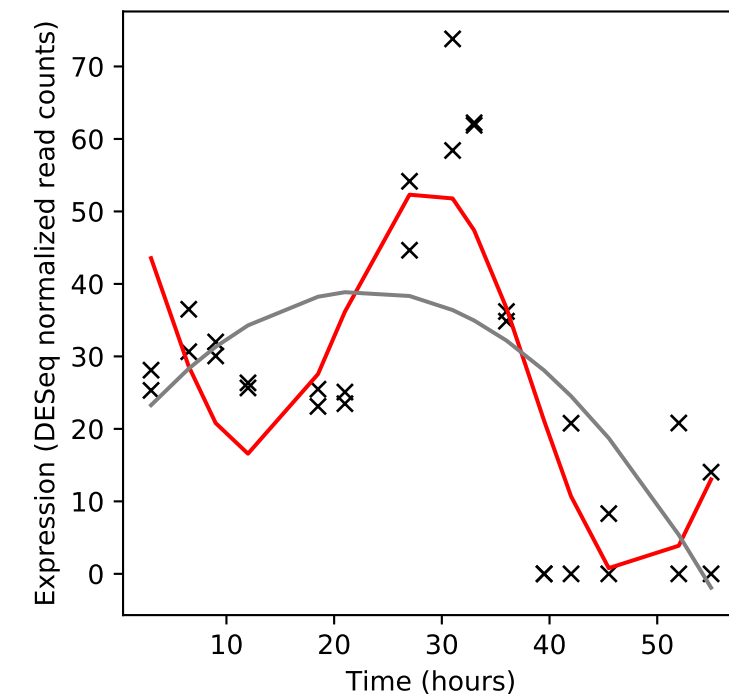
Rv3097c/lipY



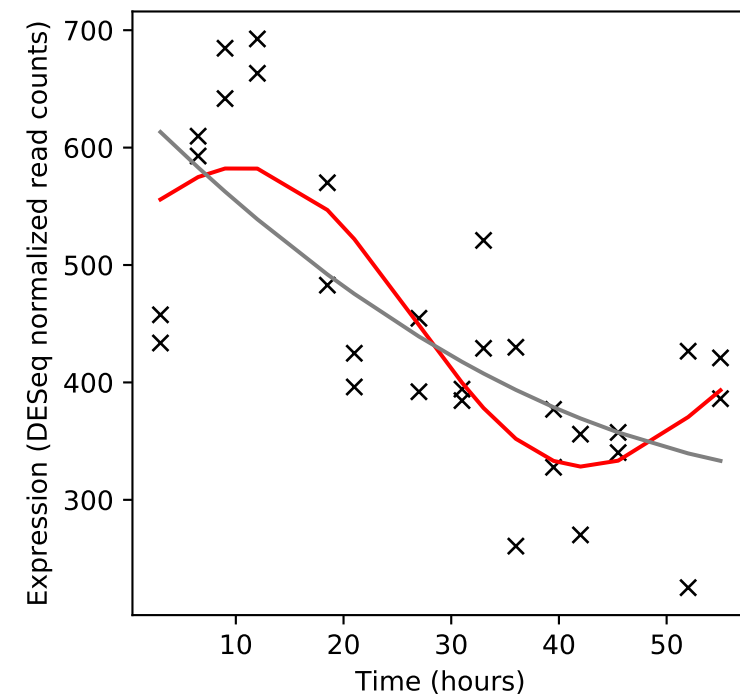
Rv3098c/-



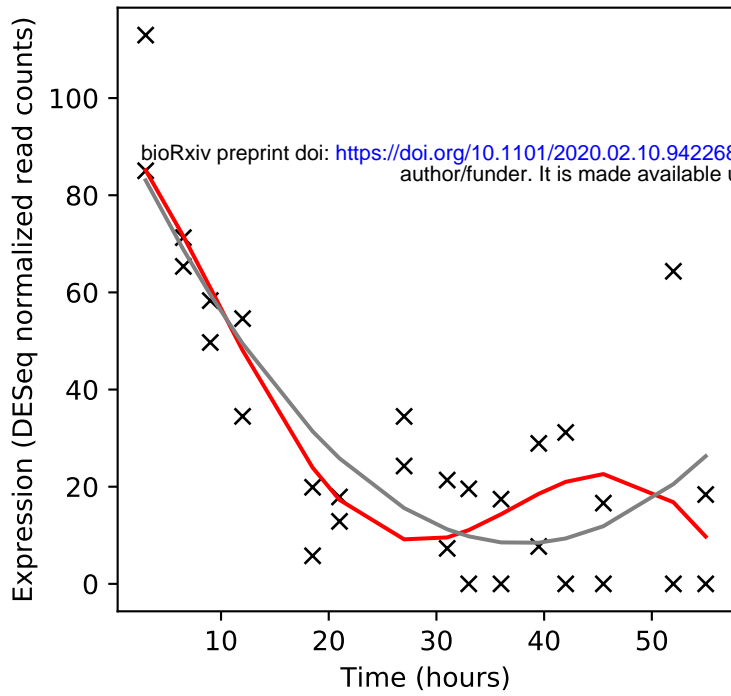
Rv3098A/-



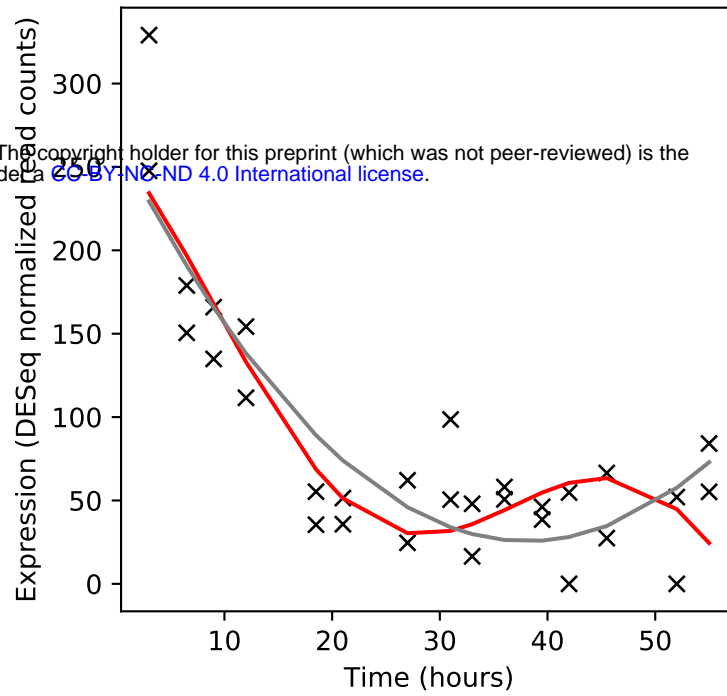
Rv3099c/-



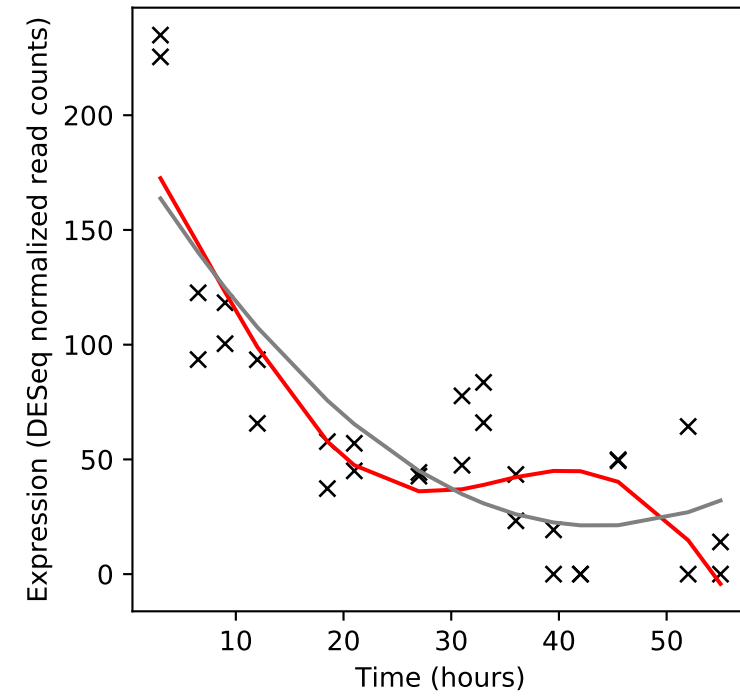
Rv3100c/smpB



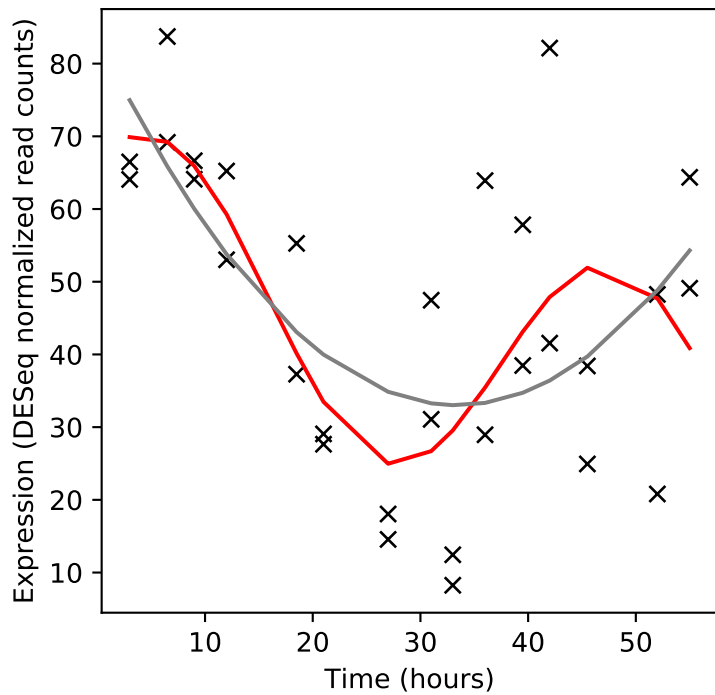
Rv3101c/ftsX



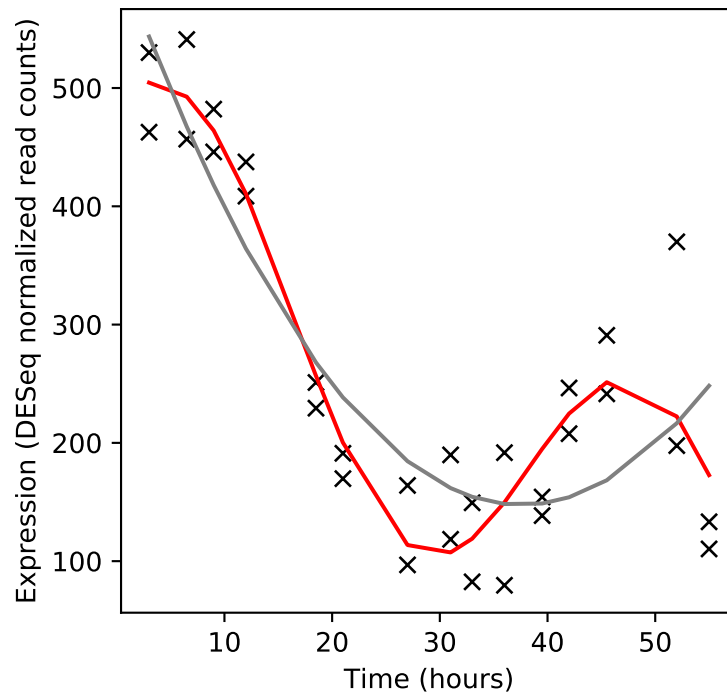
Rv3102c/ftsE



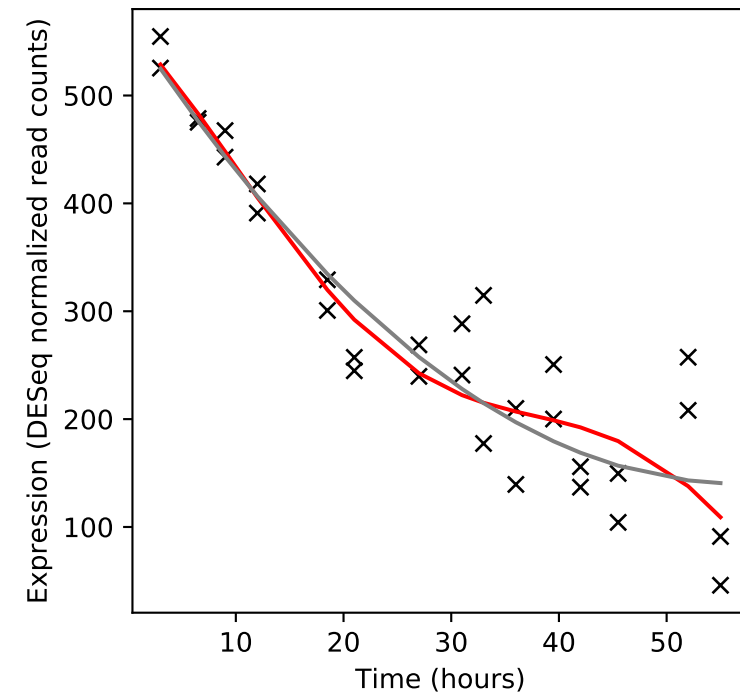
Rv3103c/-



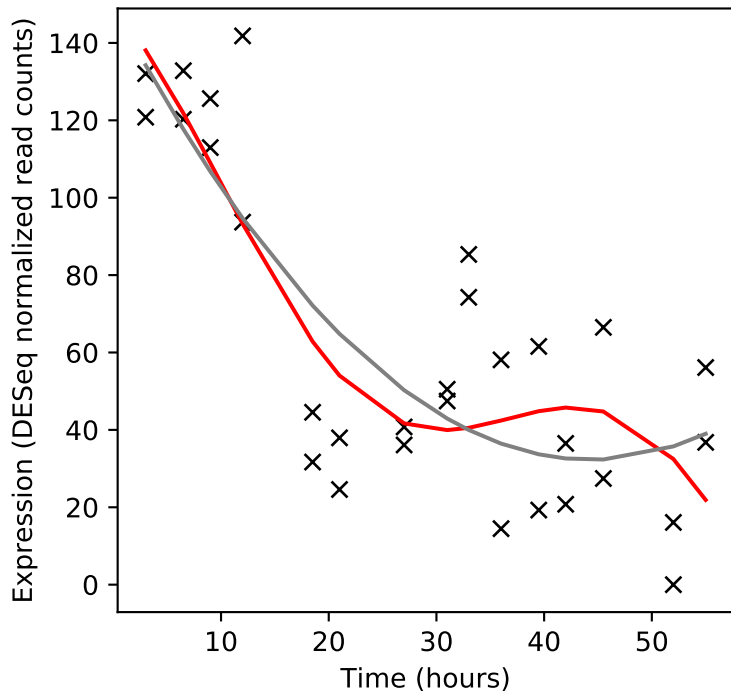
Rv3104c/-



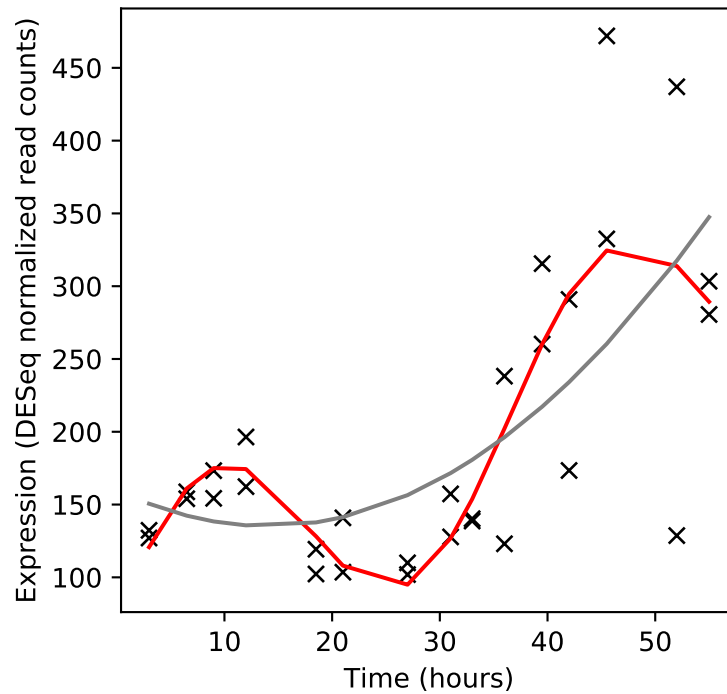
Rv3105c/prfB



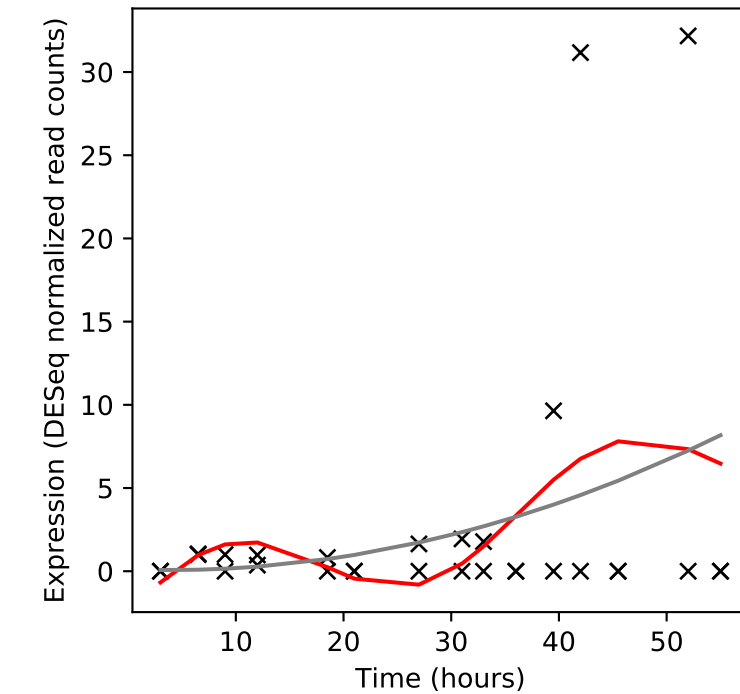
Rv3106c/fprA



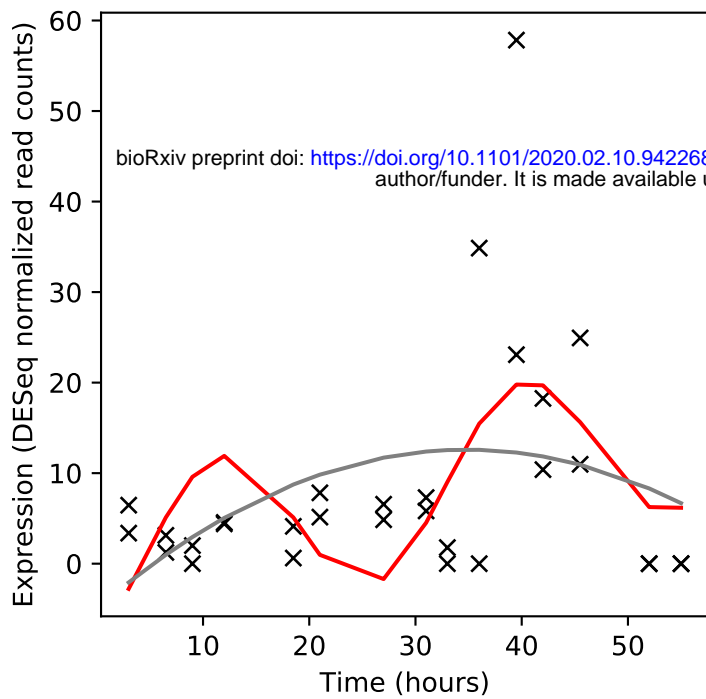
Rv3107c/agpS



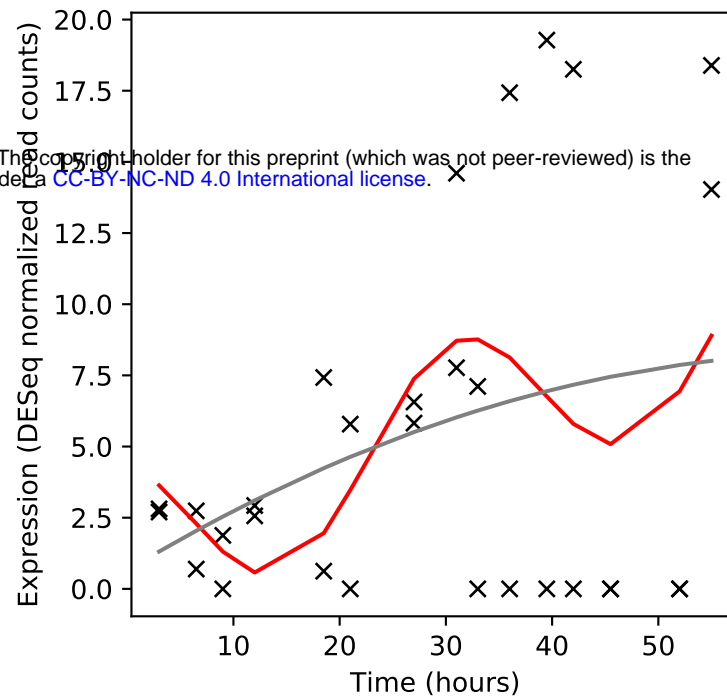
Rv3108c/-



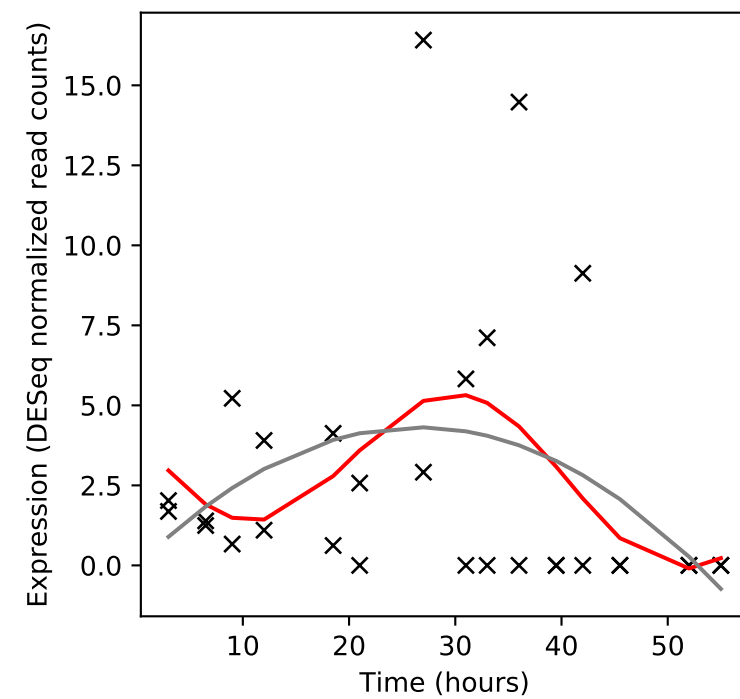
Rv3109/moaA1



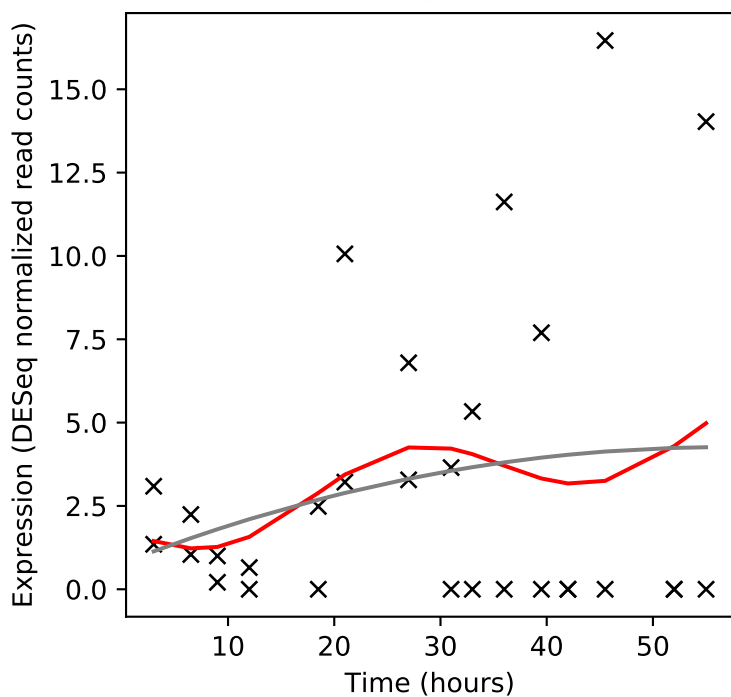
Rv3110/moaB1



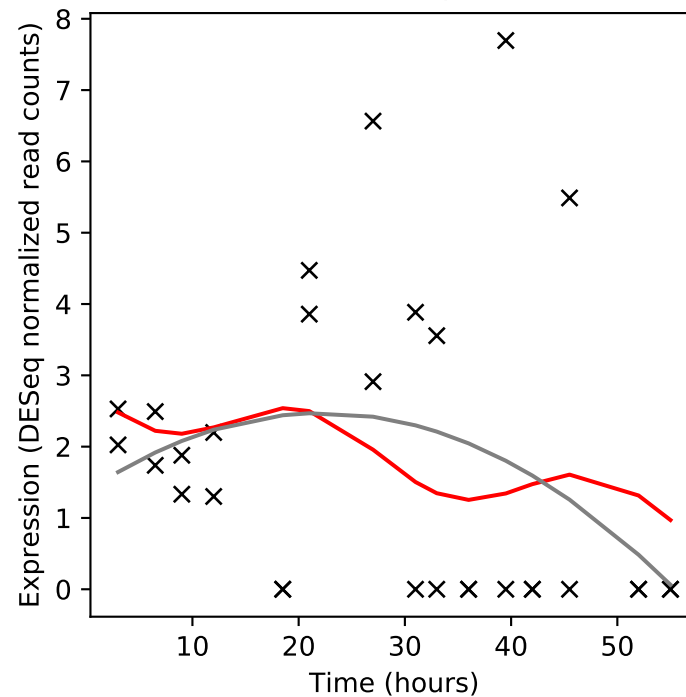
Rv3111/moaC1



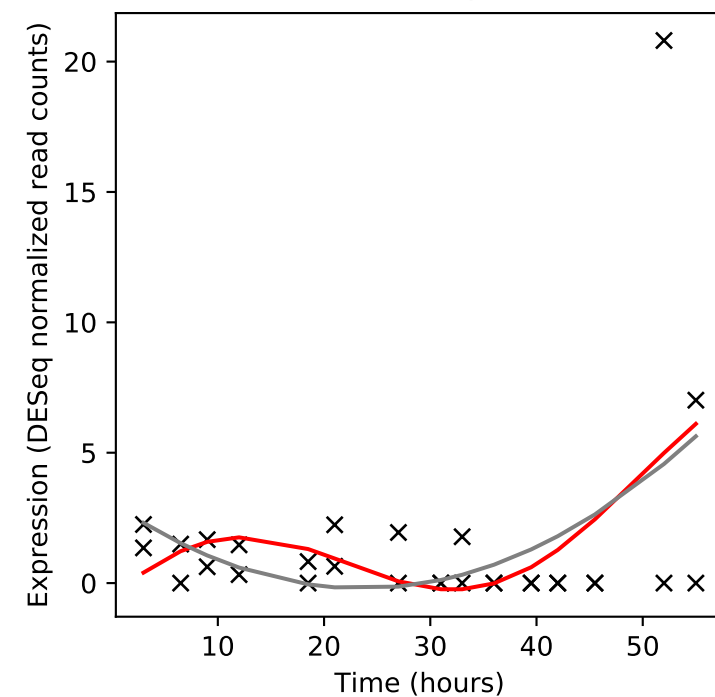
Rv3112/moaD1



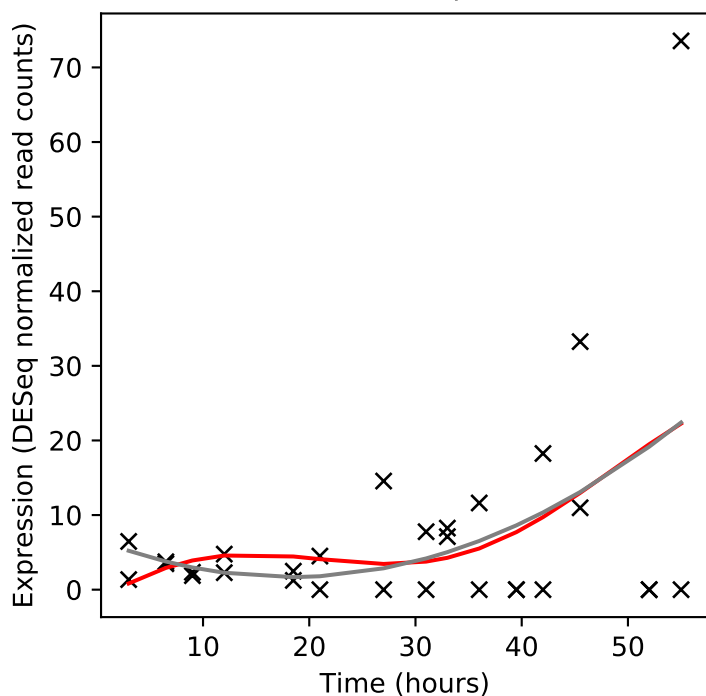
Rv3113/-



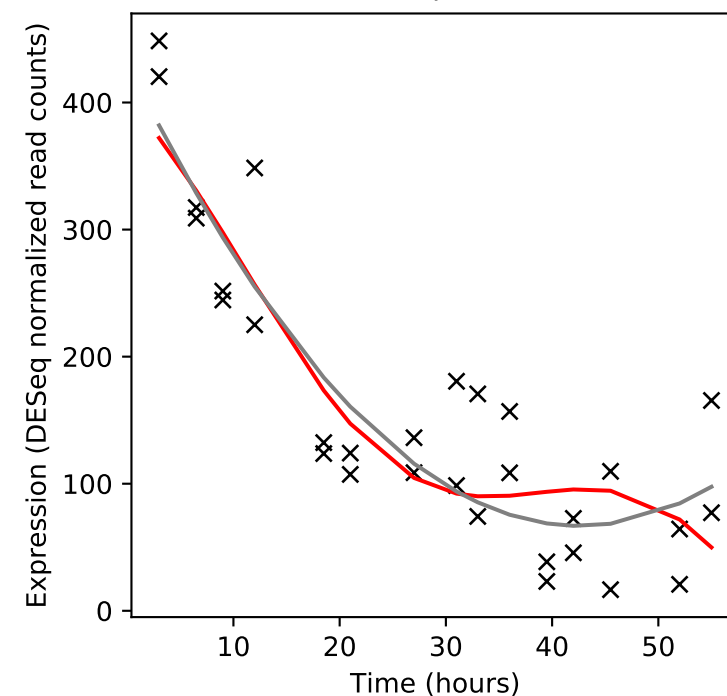
Rv3114/-



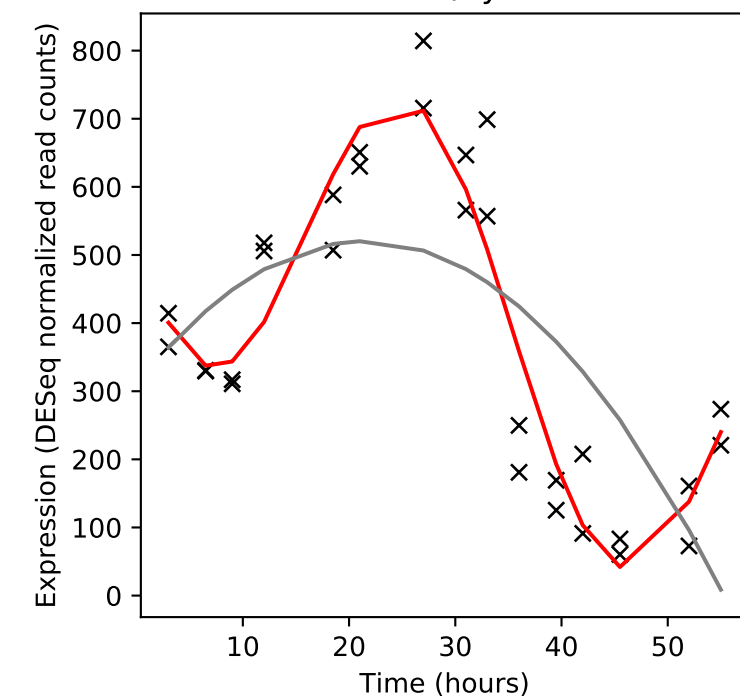
Rv3115/-



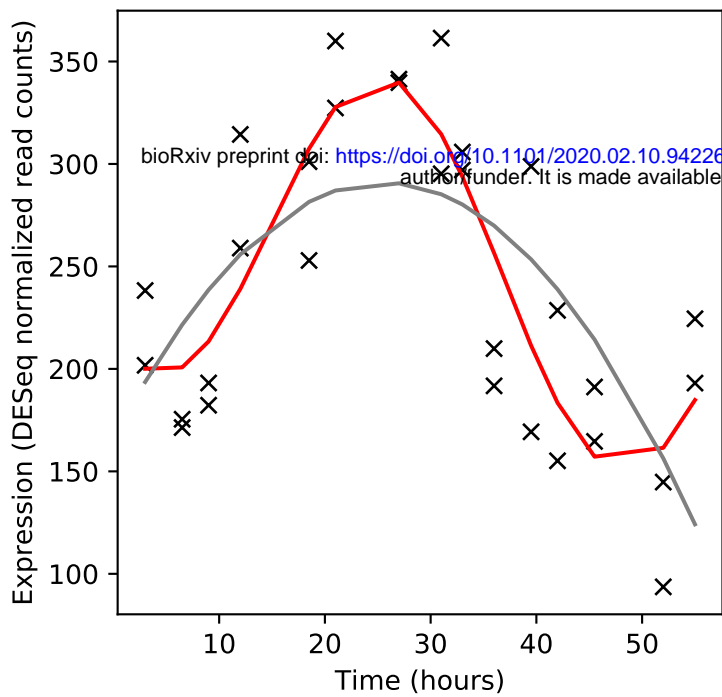
Rv3116/moeB2



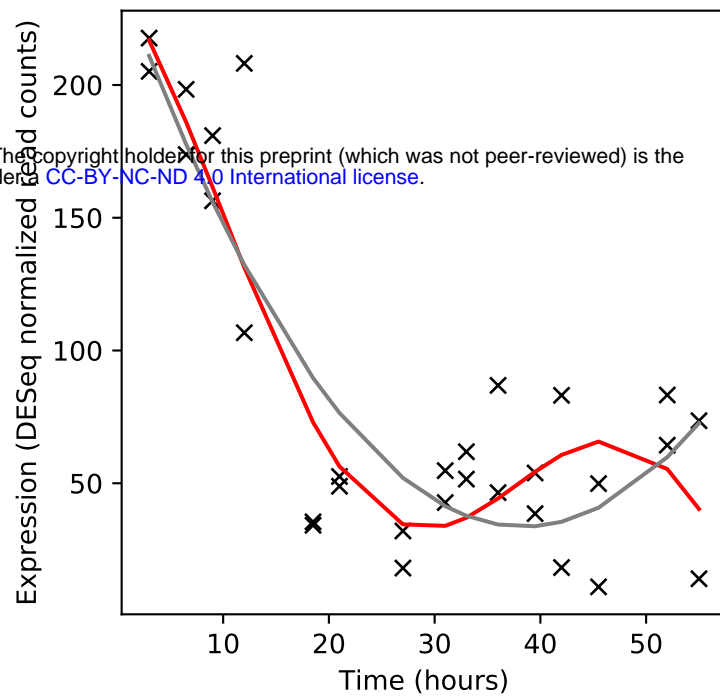
Rv3117/cysA3



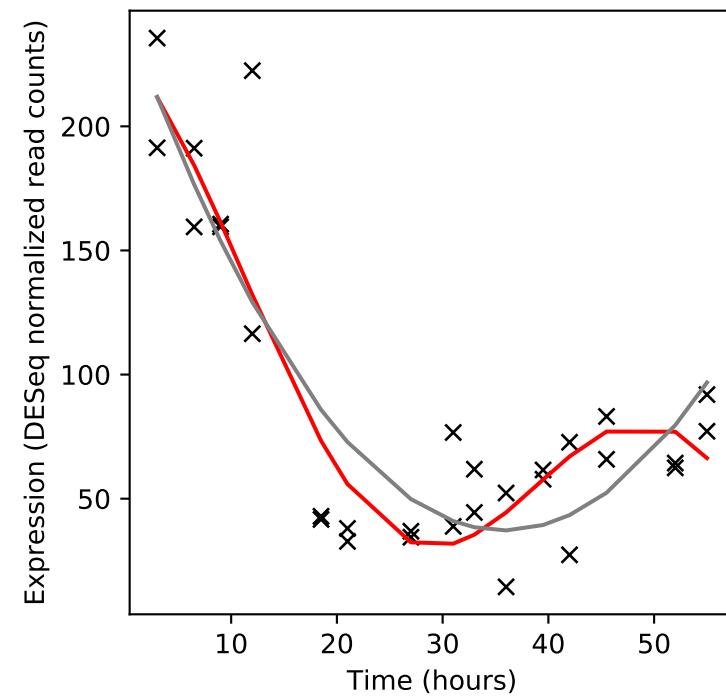
Rv3118/sseC1



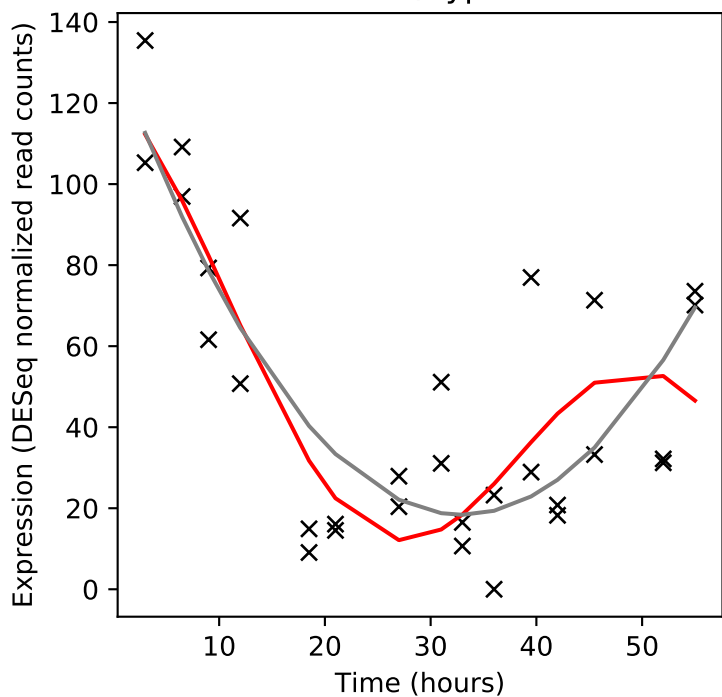
Rv3119/moaE1



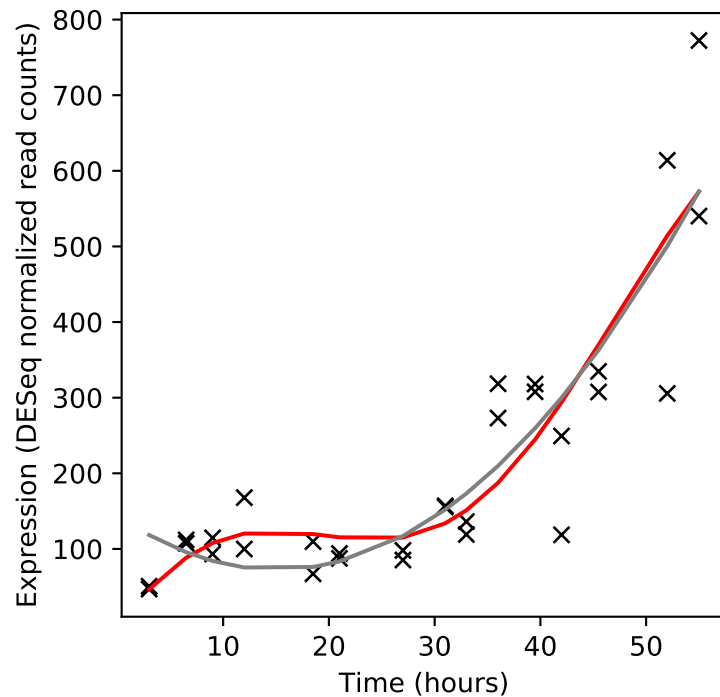
Rv3120/-



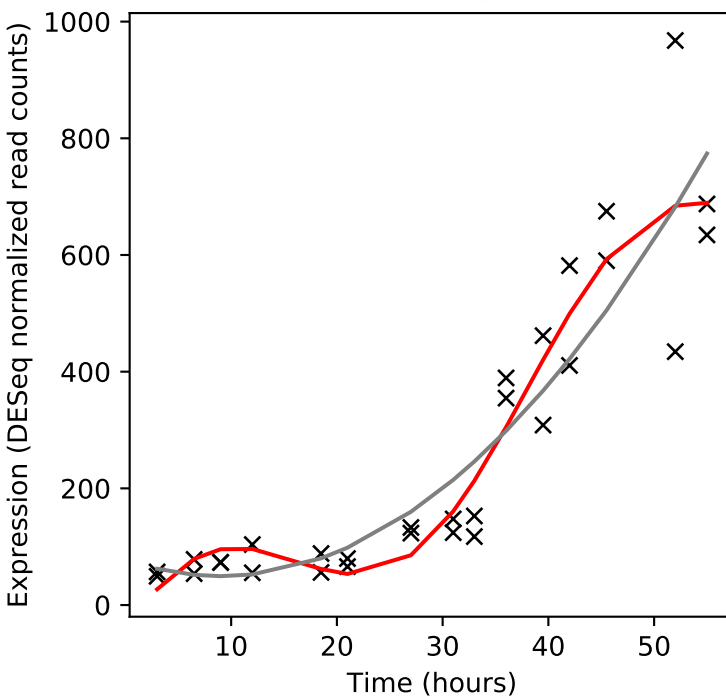
Rv3121/cyp141



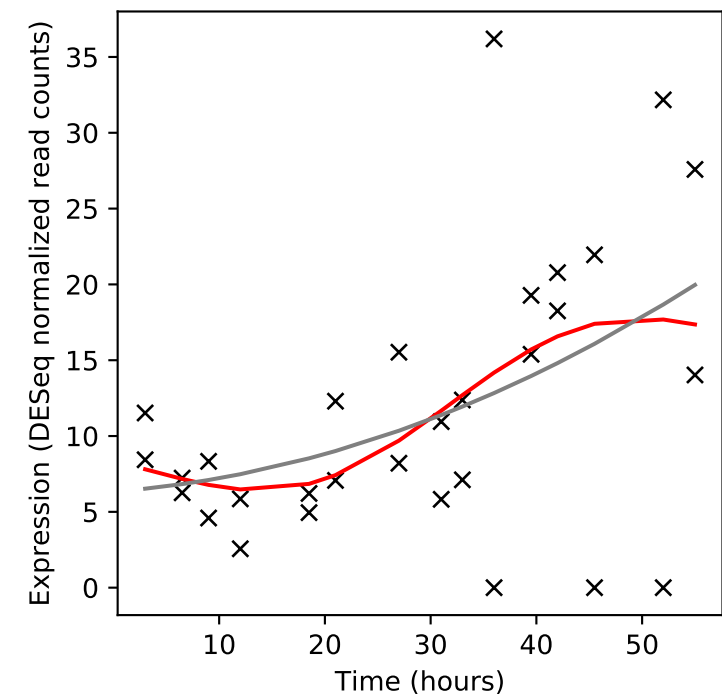
Rv3122/-



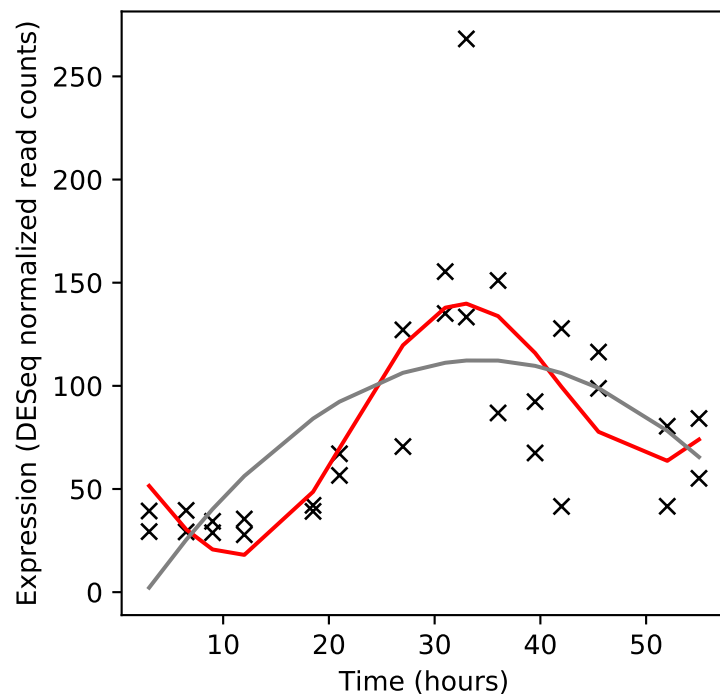
Rv3123/-



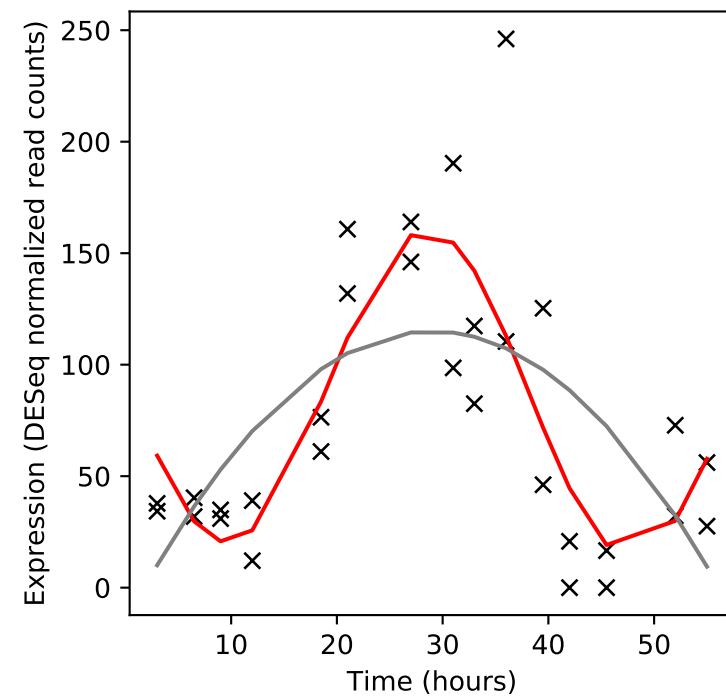
Rv3124/moaR1



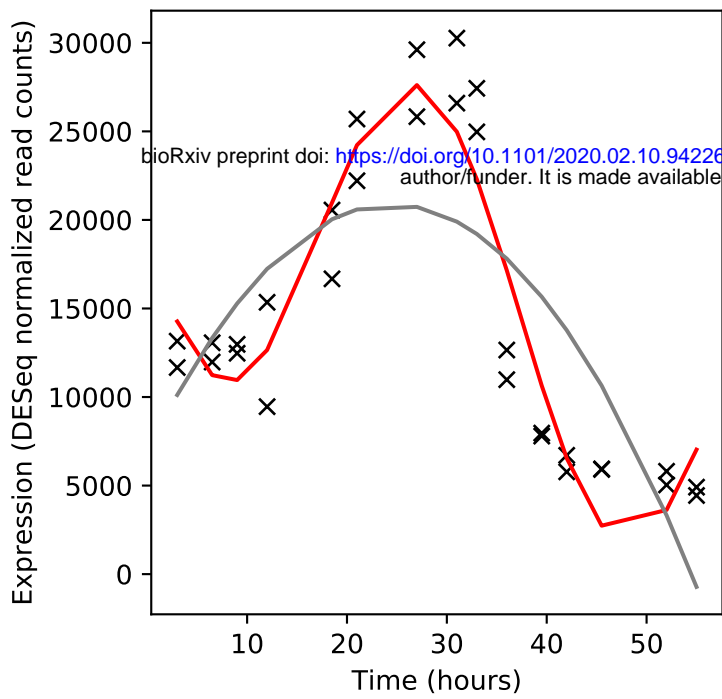
Rv3125c/PPE49



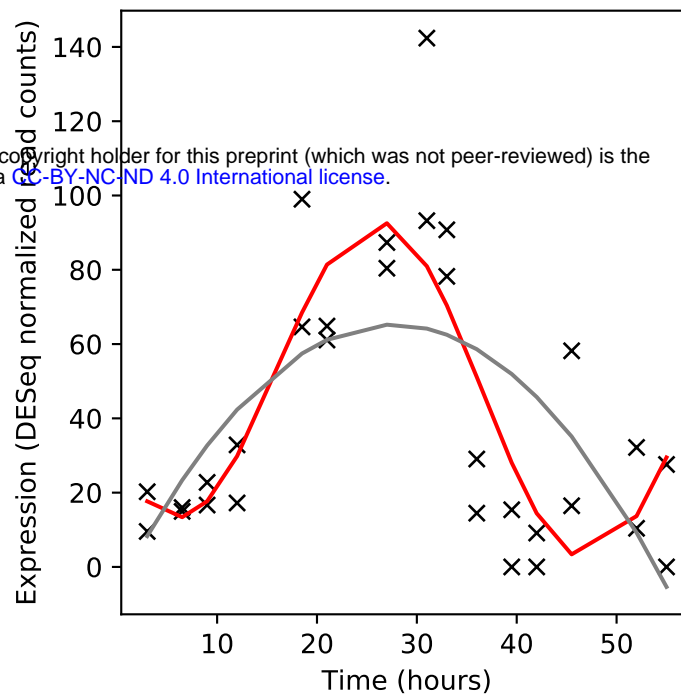
Rv3126c/-



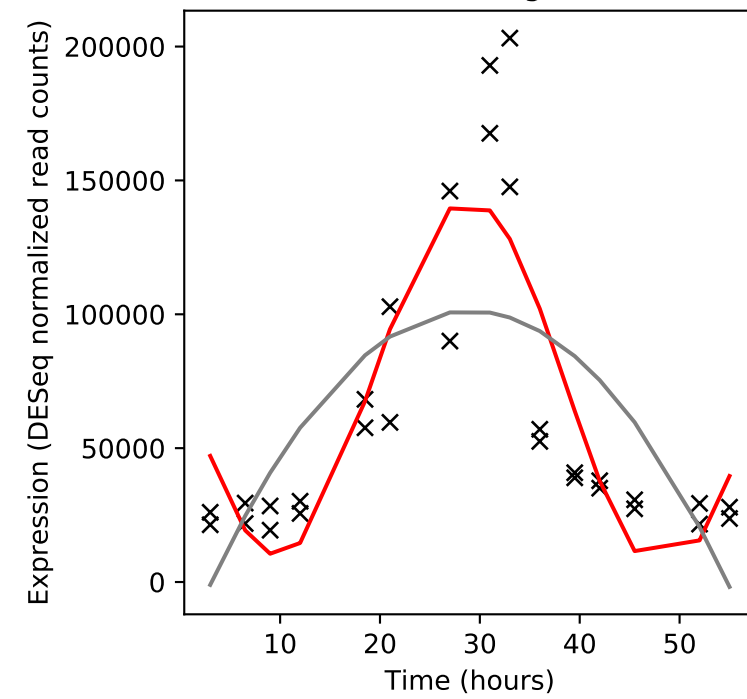
Rv3127/-



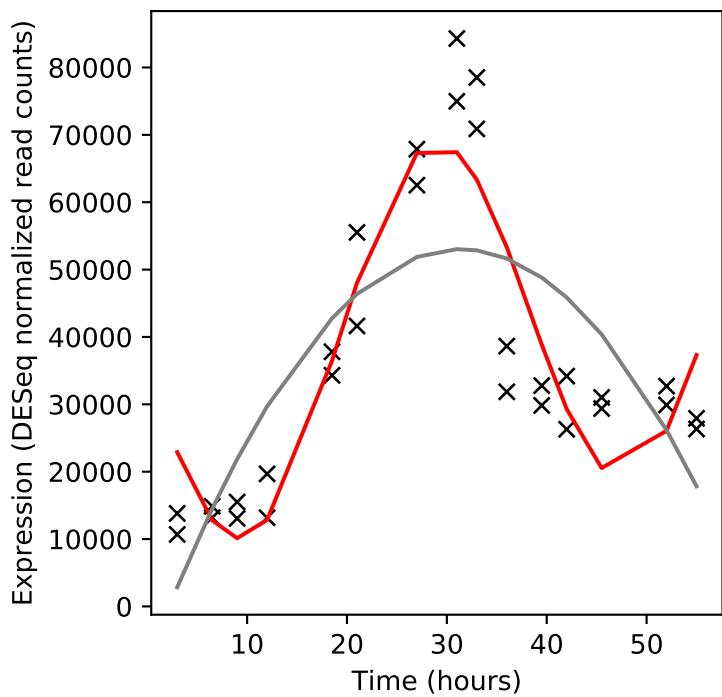
Rv3129/-



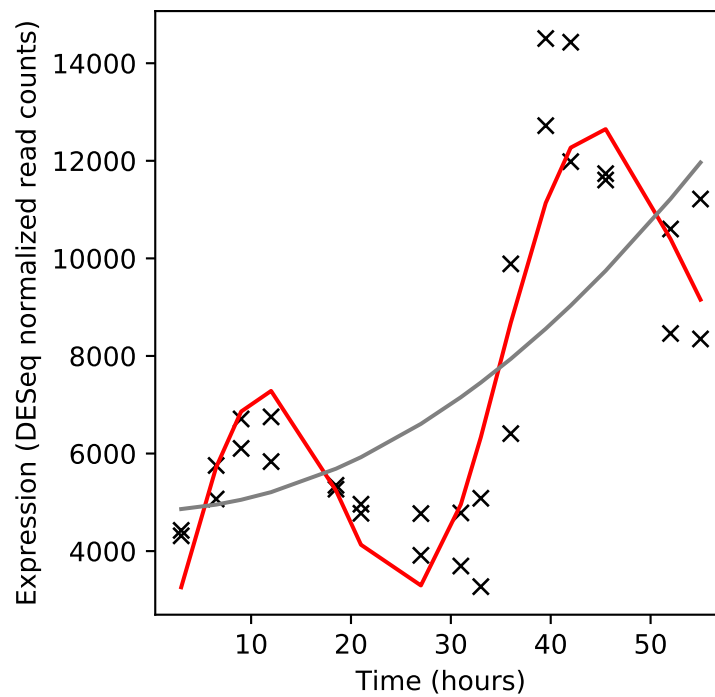
Rv3130c/tgs1



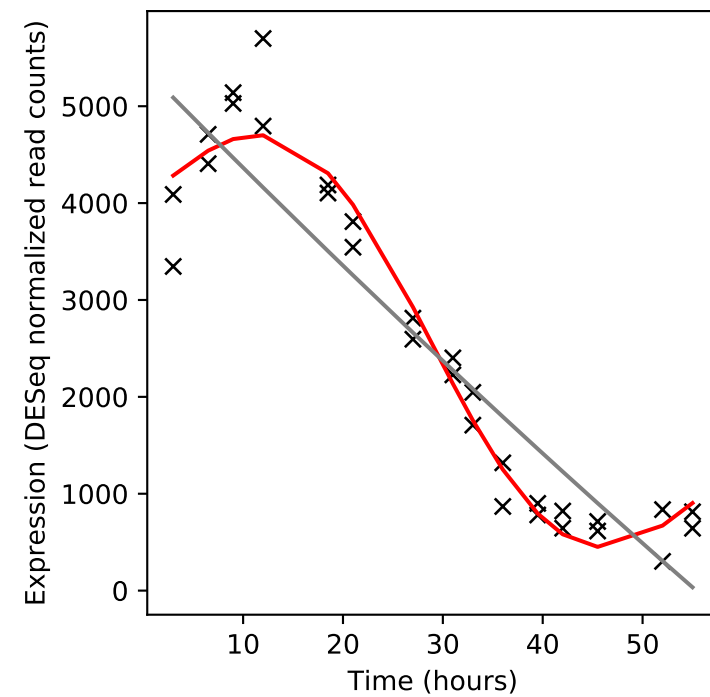
Rv3131/-



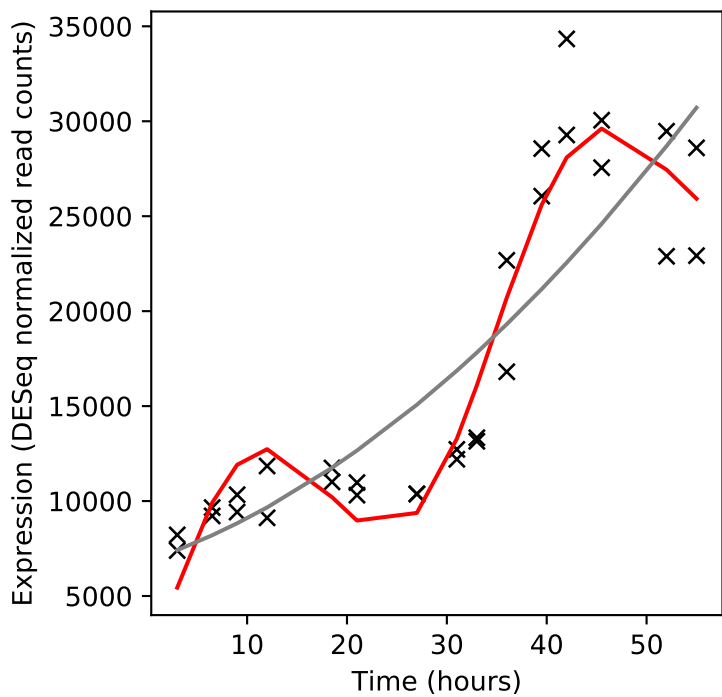
Rv3132c/devS



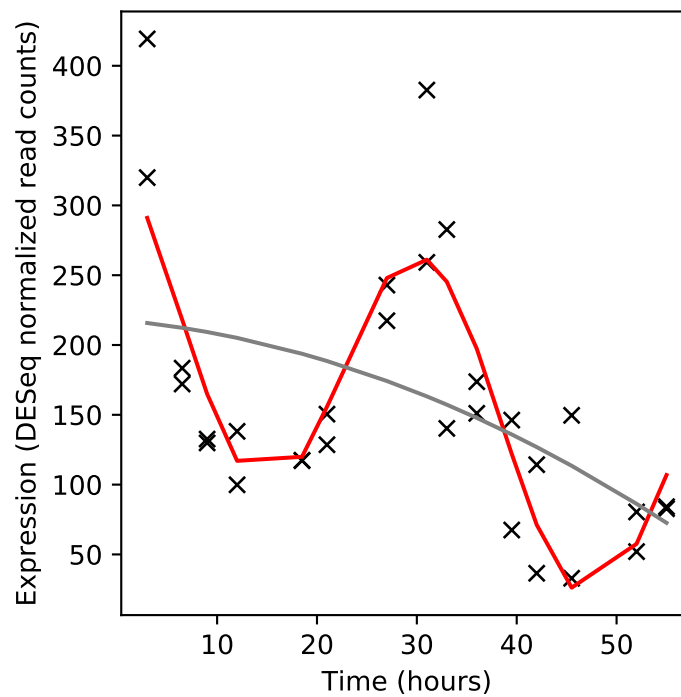
Rv3133c/devR



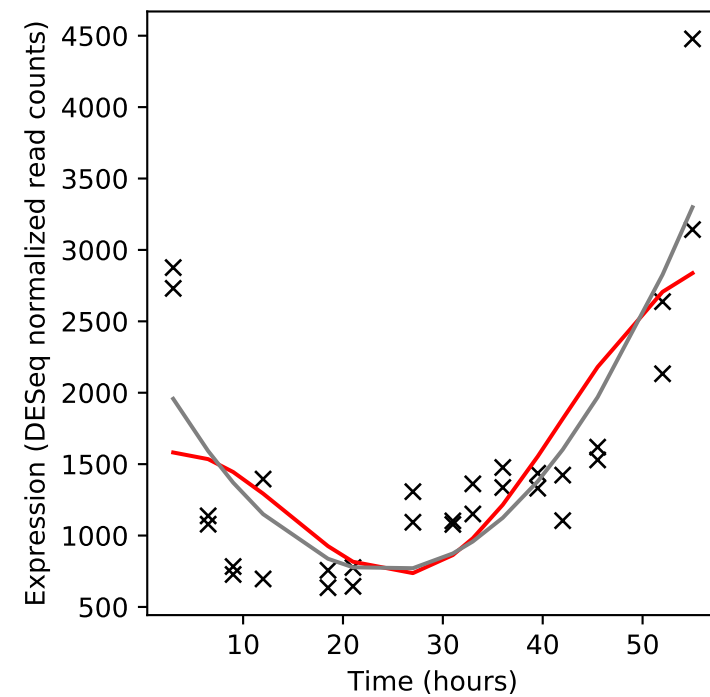
Rv3134c/-



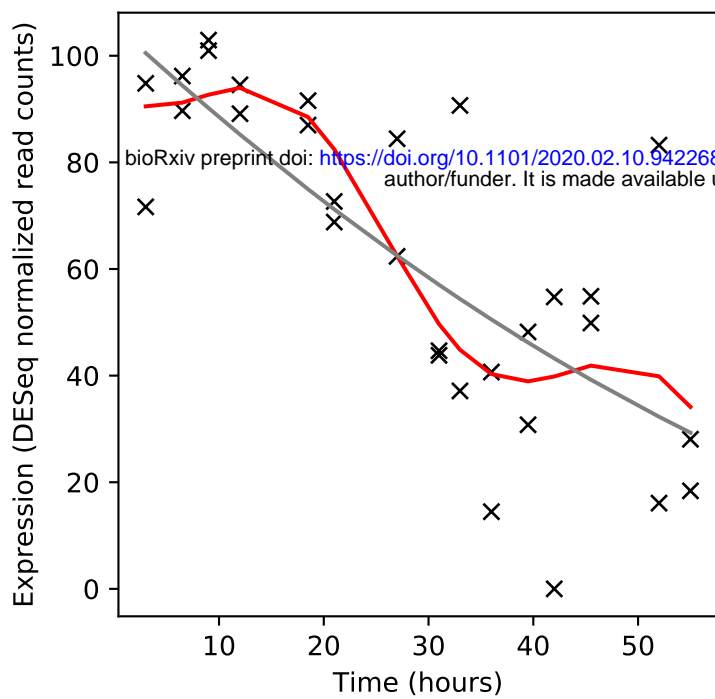
Rv3135/PPE50



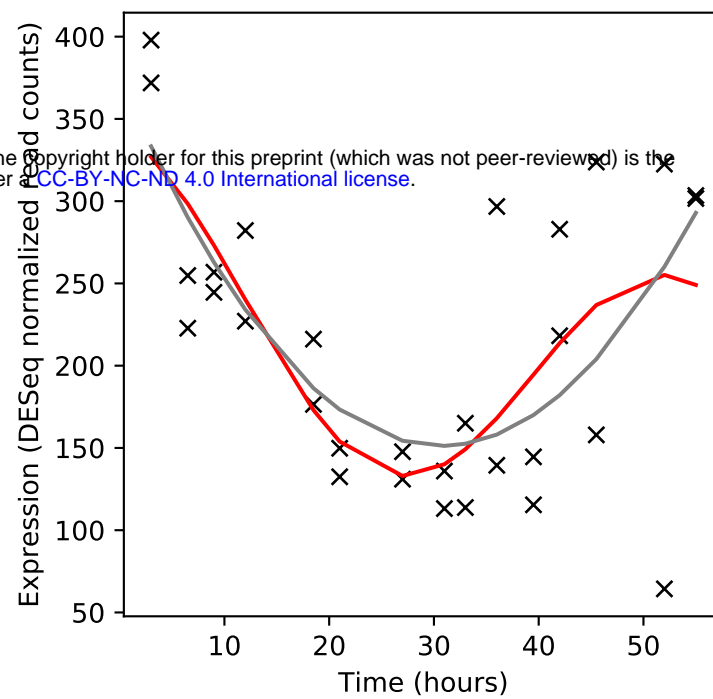
Rv3136/PPE51



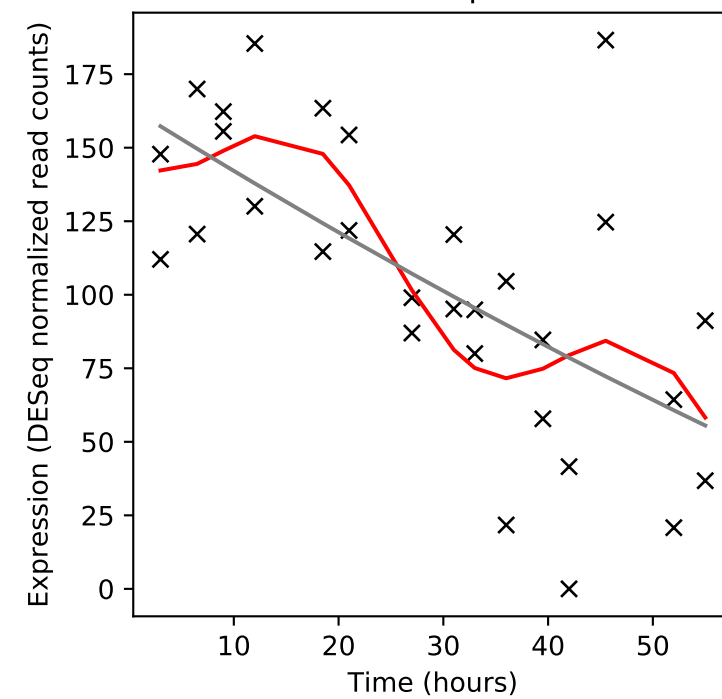
Rv3136A/-



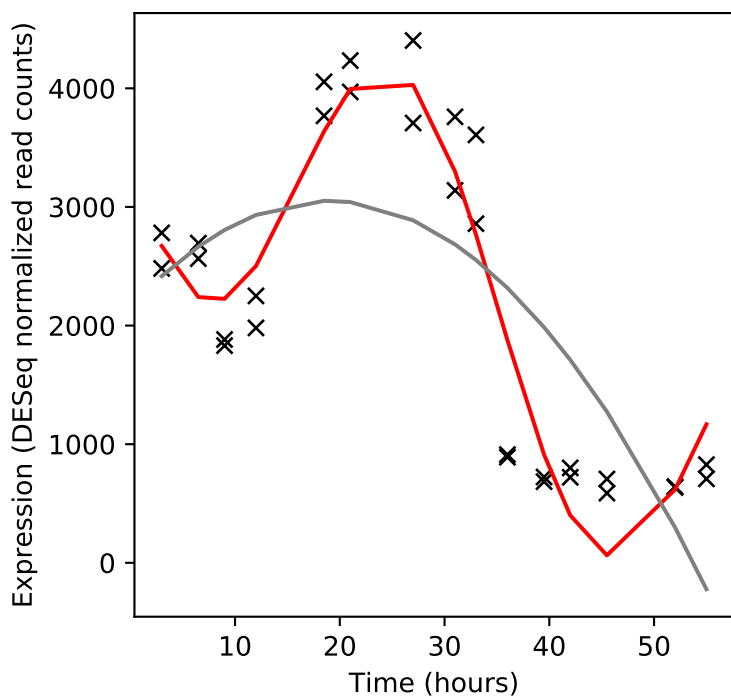
Rv3137/-



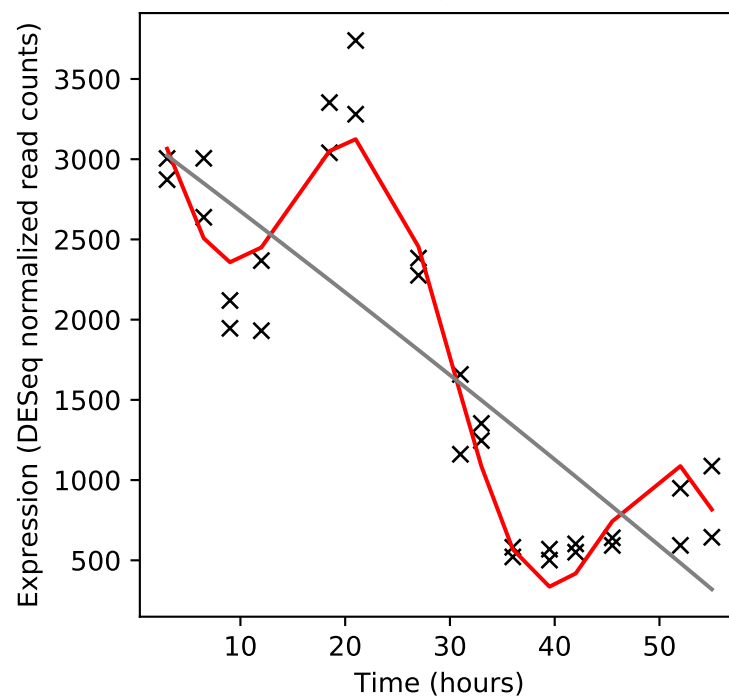
Rv3138/pflA



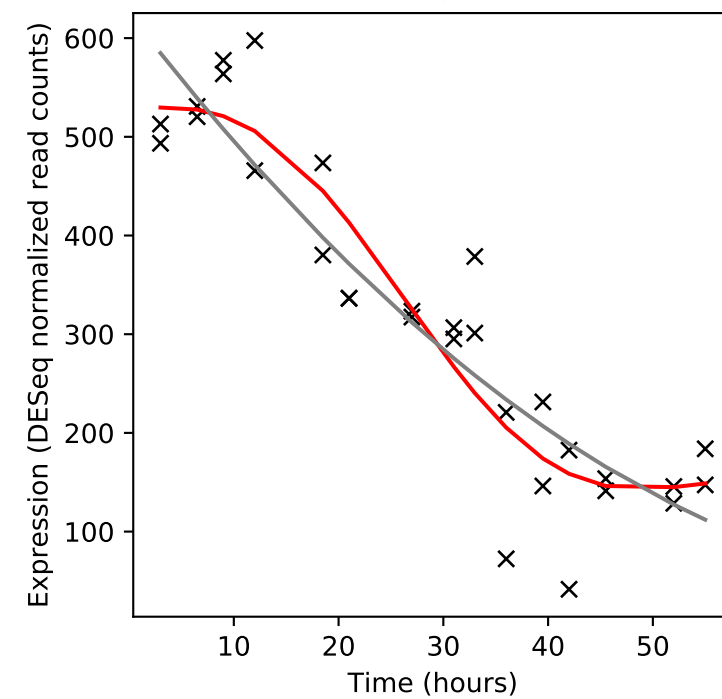
Rv3139/fadE24



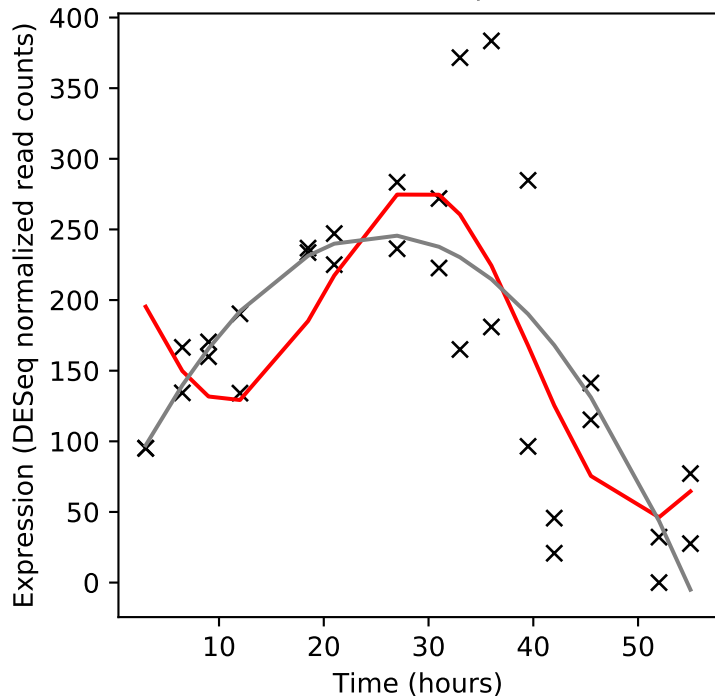
Rv3140/fadE23



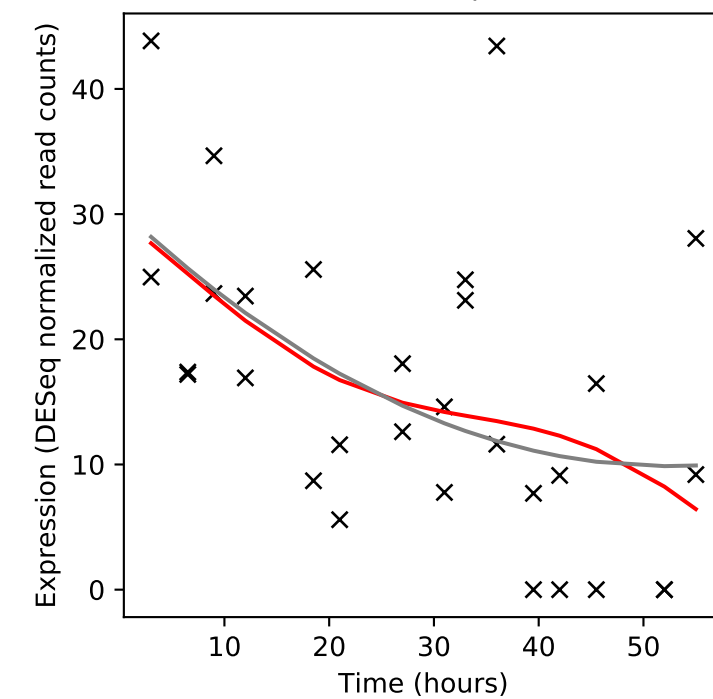
Rv3141/fadB4



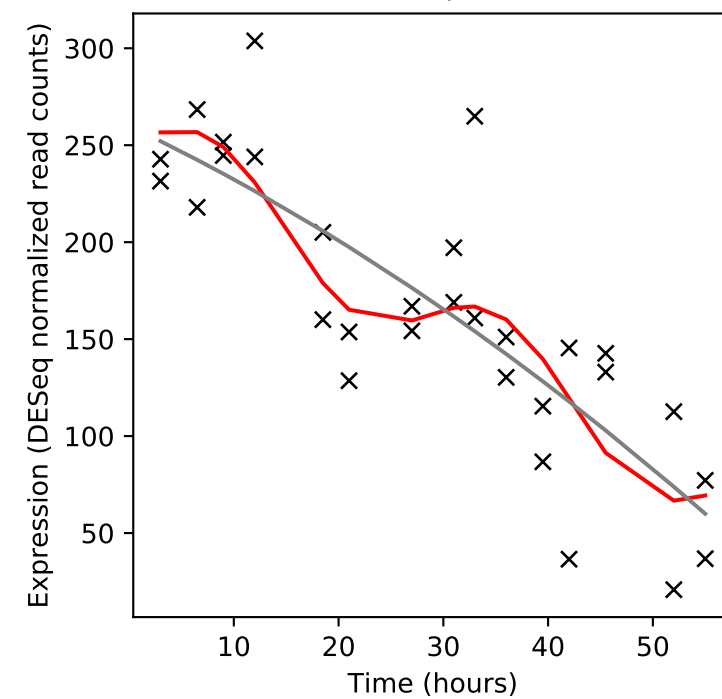
Rv3142c/-



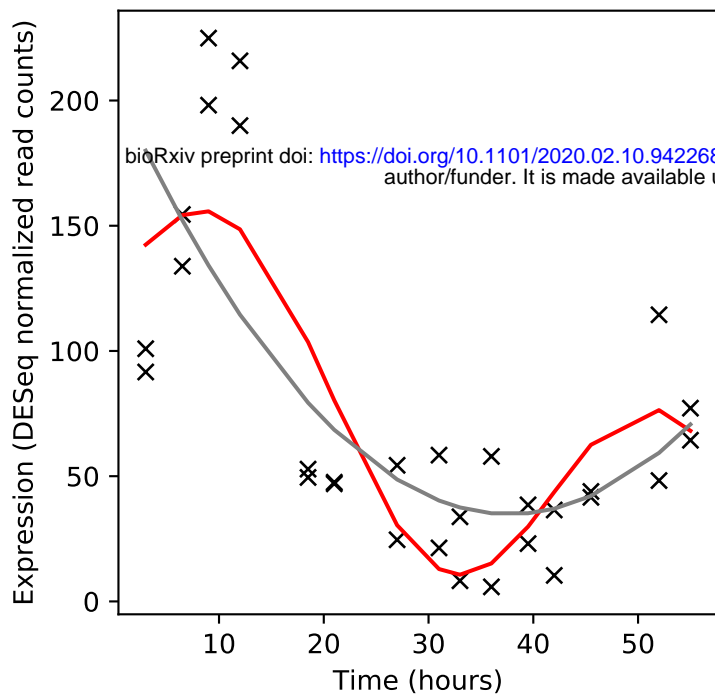
Rv3143/-



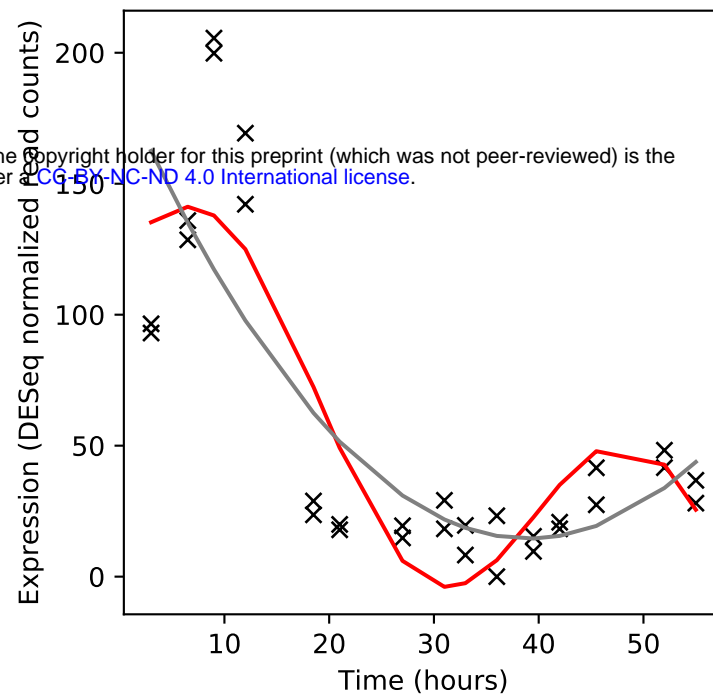
Rv3144c/PPE52



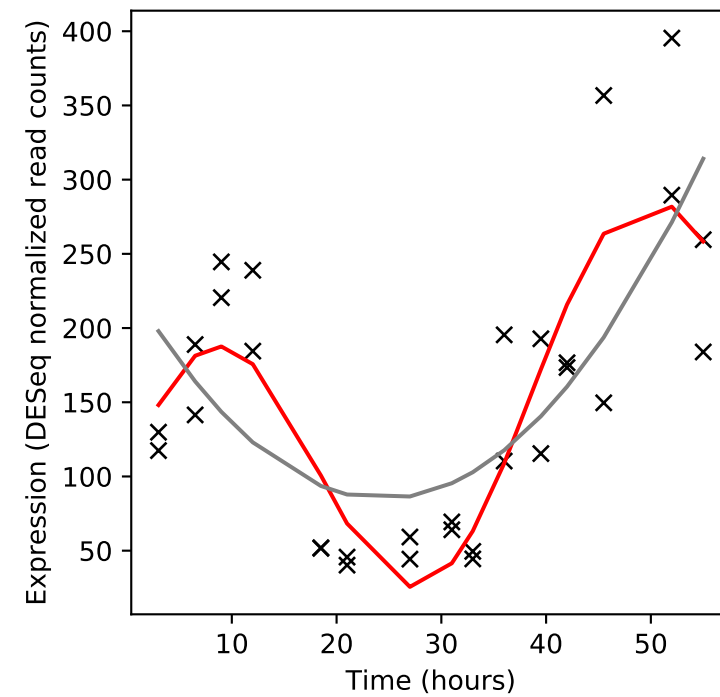
Rv3145/nuoA



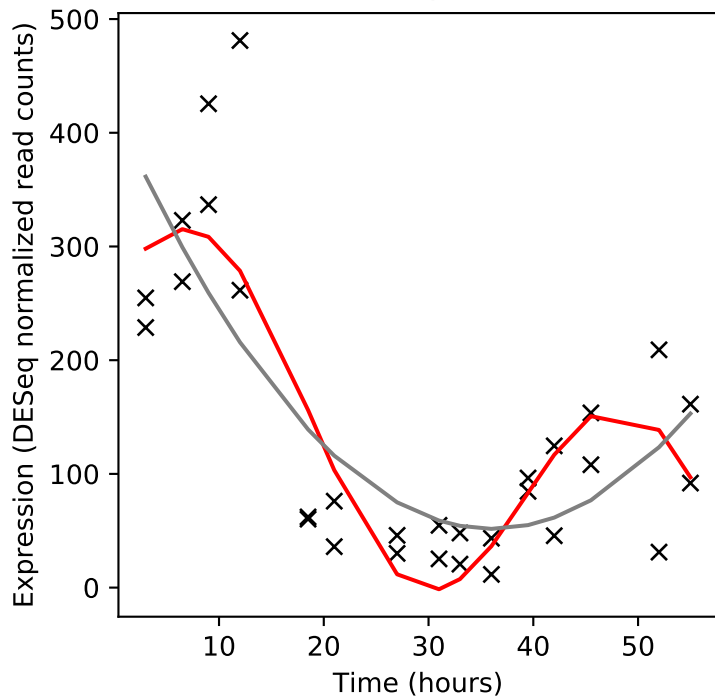
Rv3146/nuoB



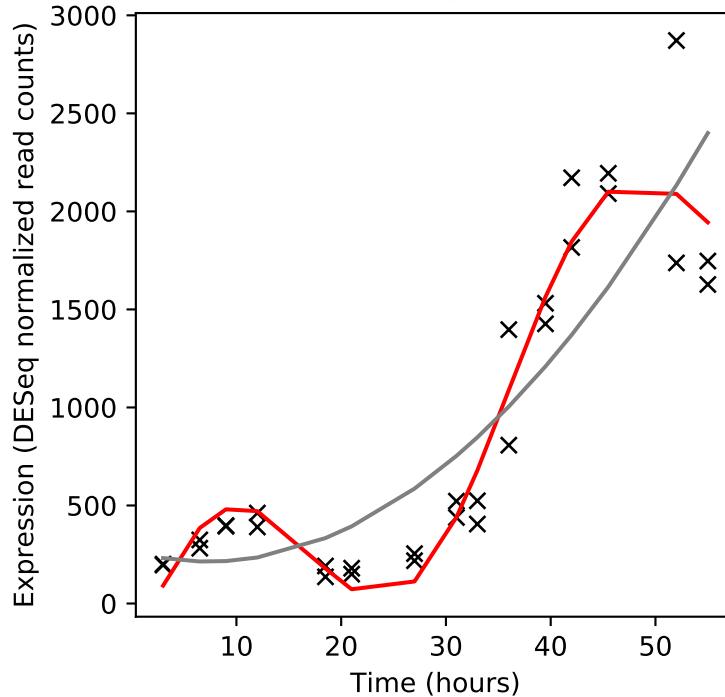
Rv3147/nuoC



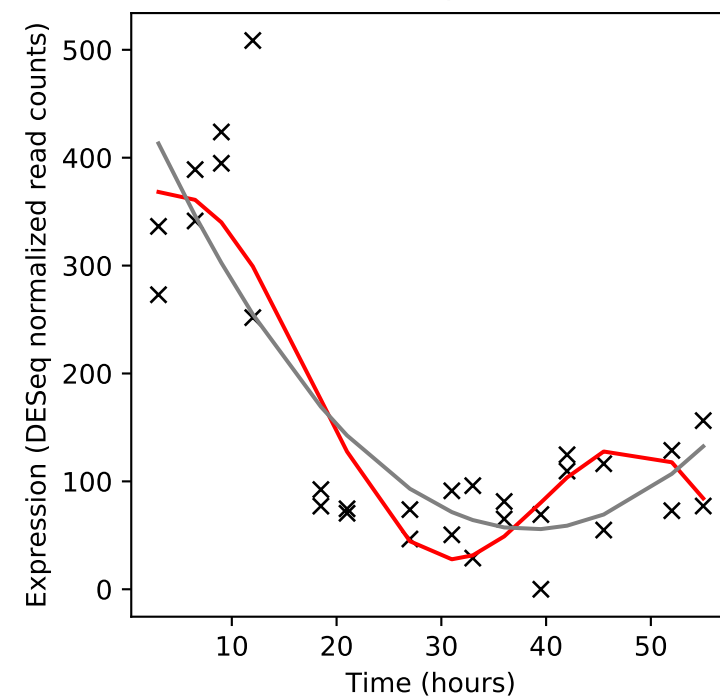
Rv3148/nuoD



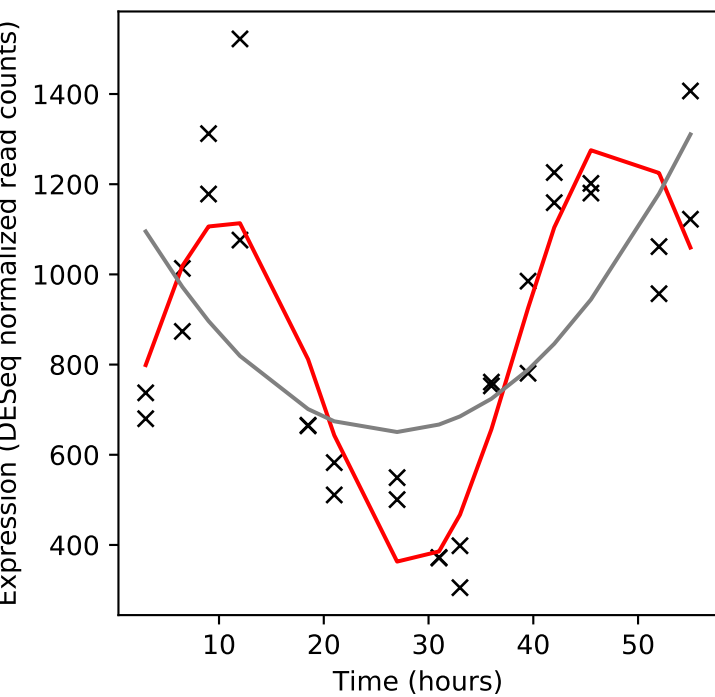
Rv3149/nuoE



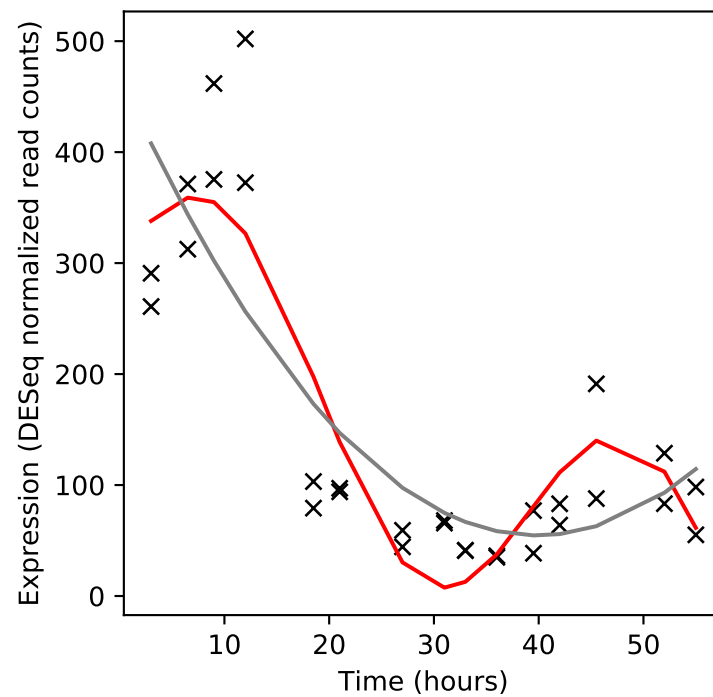
Rv3150/nuoF



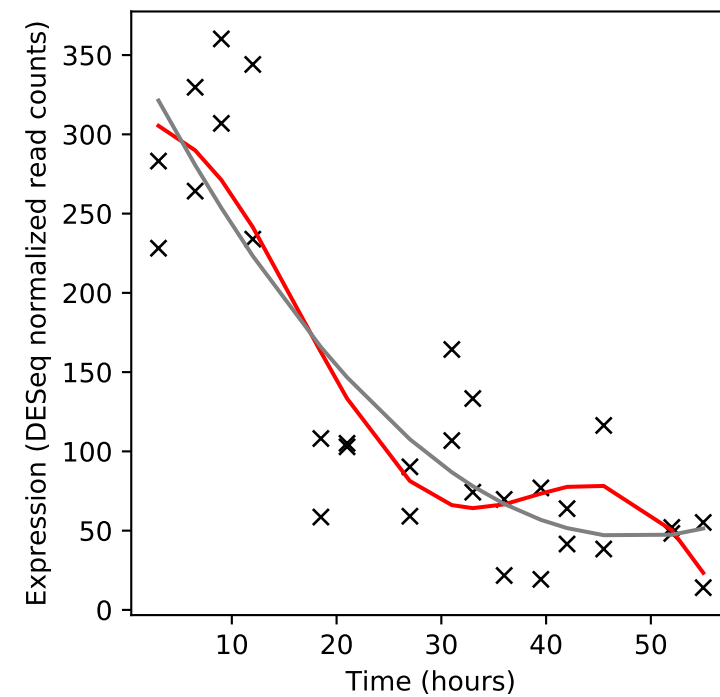
Rv3151/nuoG



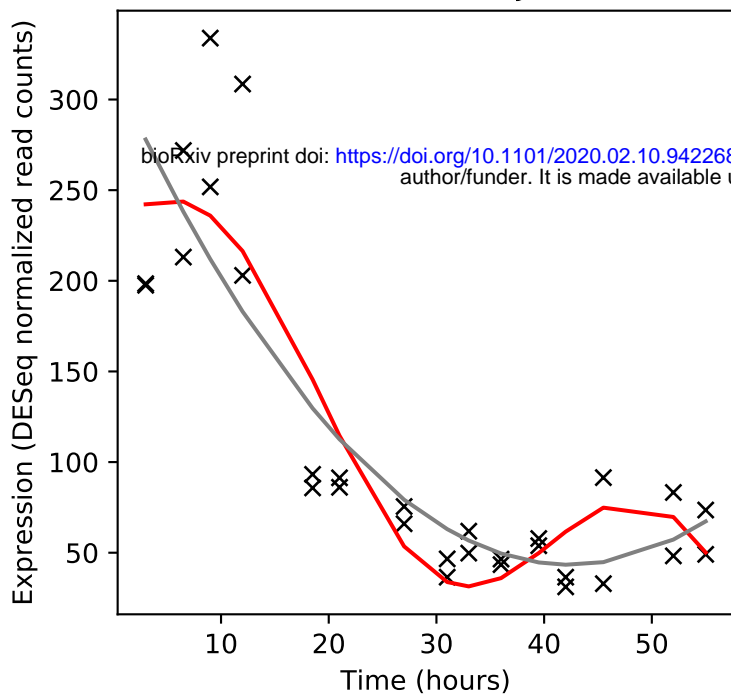
Rv3152/nuoH



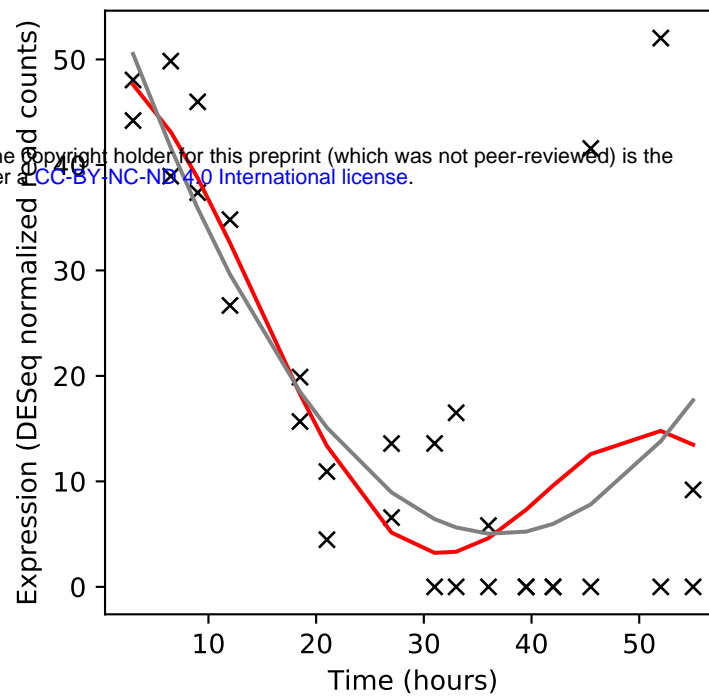
Rv3153/nuoI



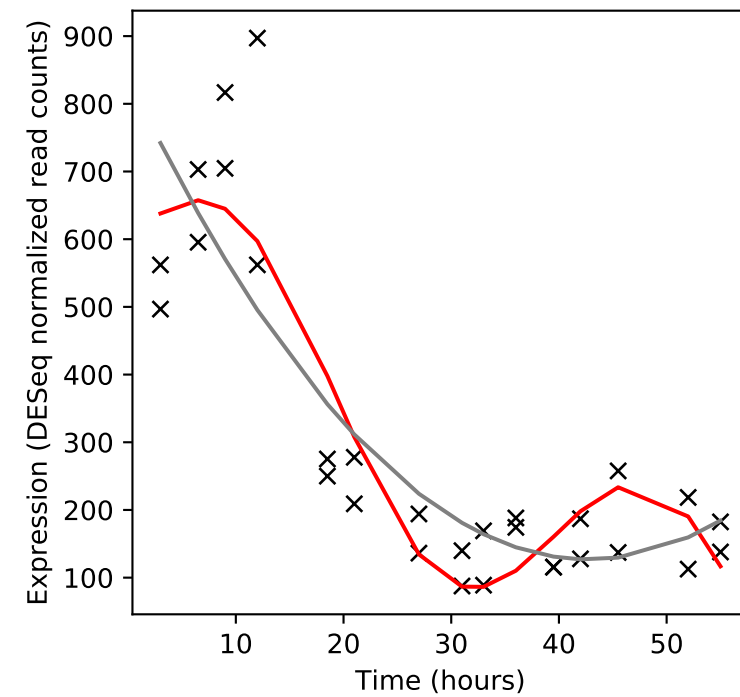
Rv3154/nuoJ



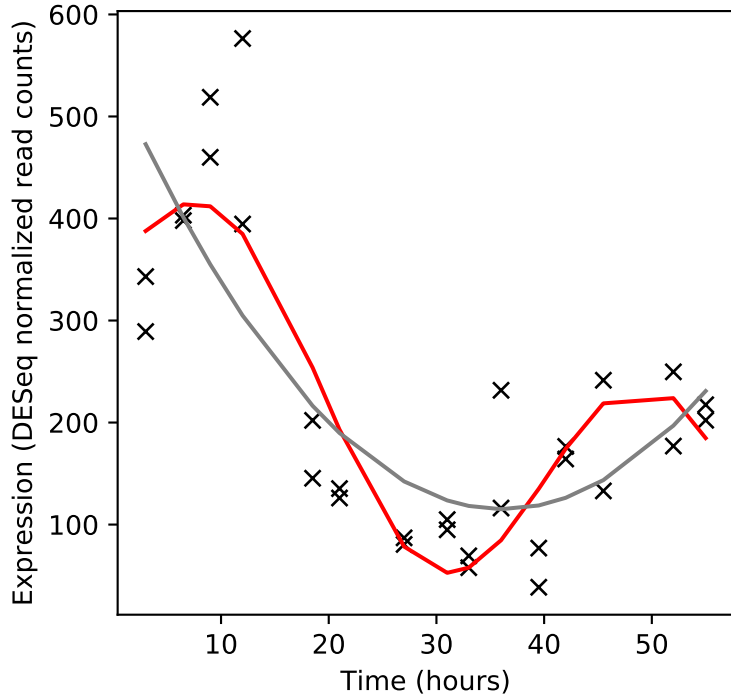
Rv3155/nuoK



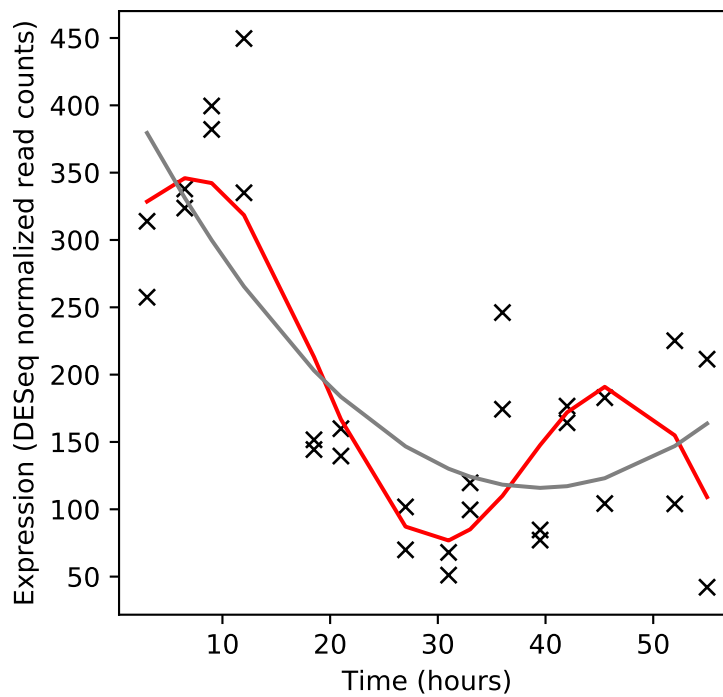
Rv3156/nuoL



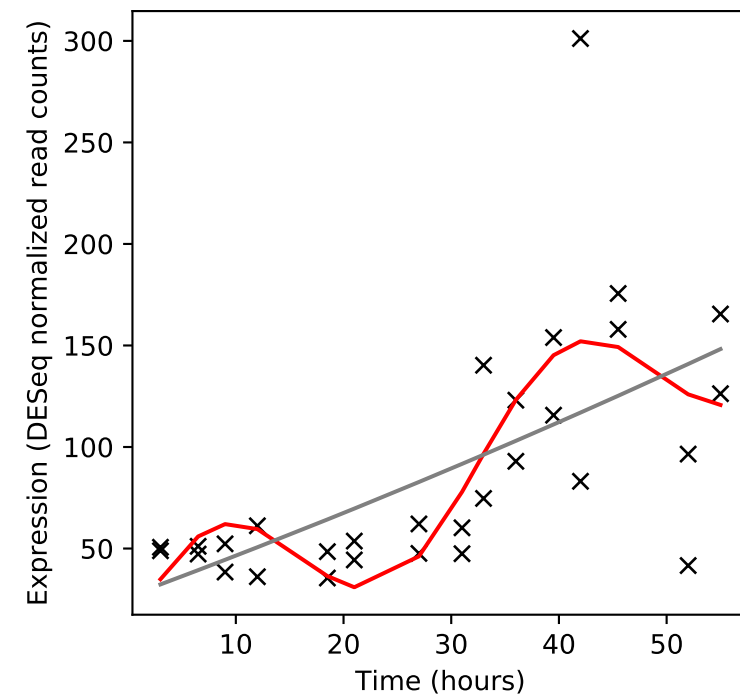
Rv3157/nuoM



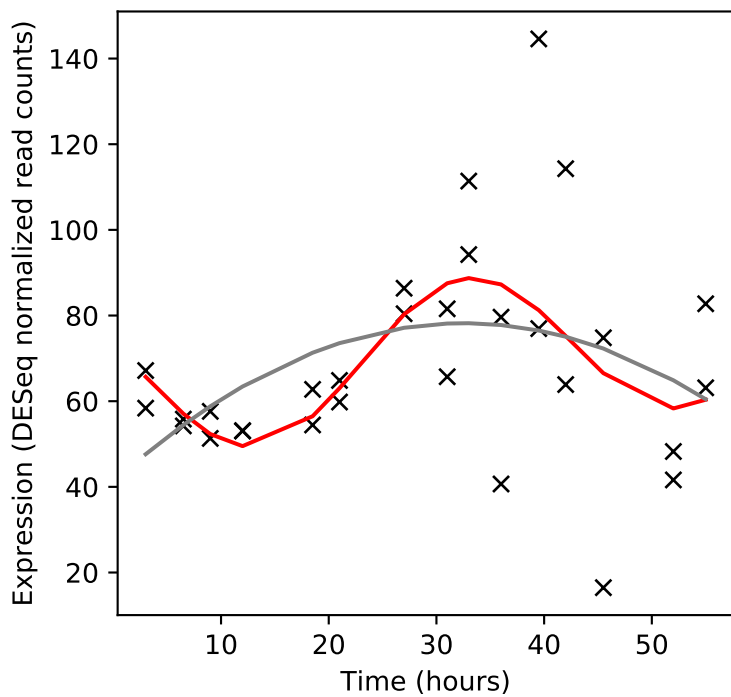
Rv3158/nuoN



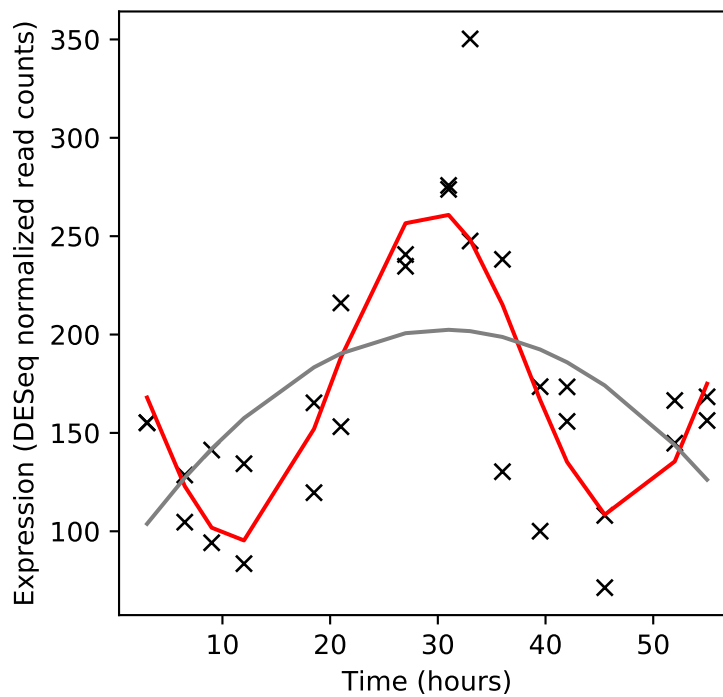
Rv3159c/PPE53



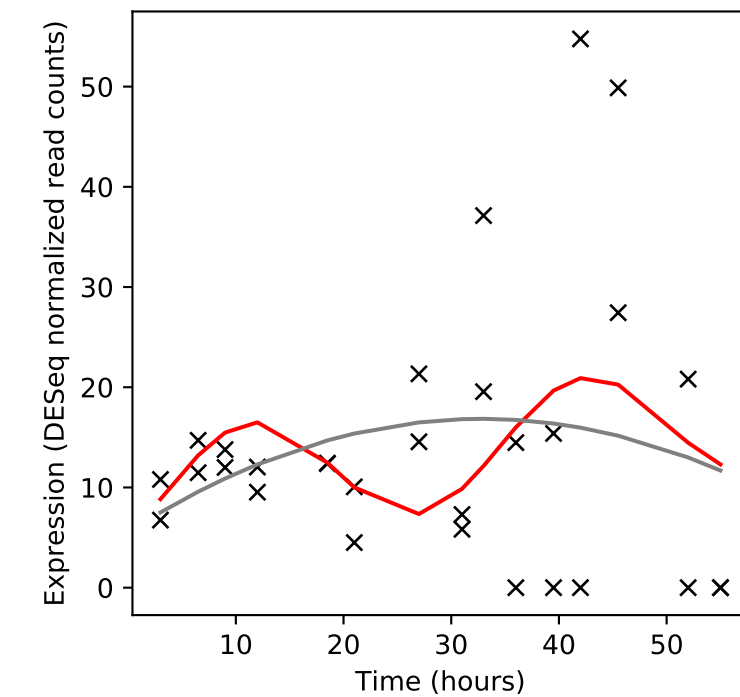
Rv3160c/-



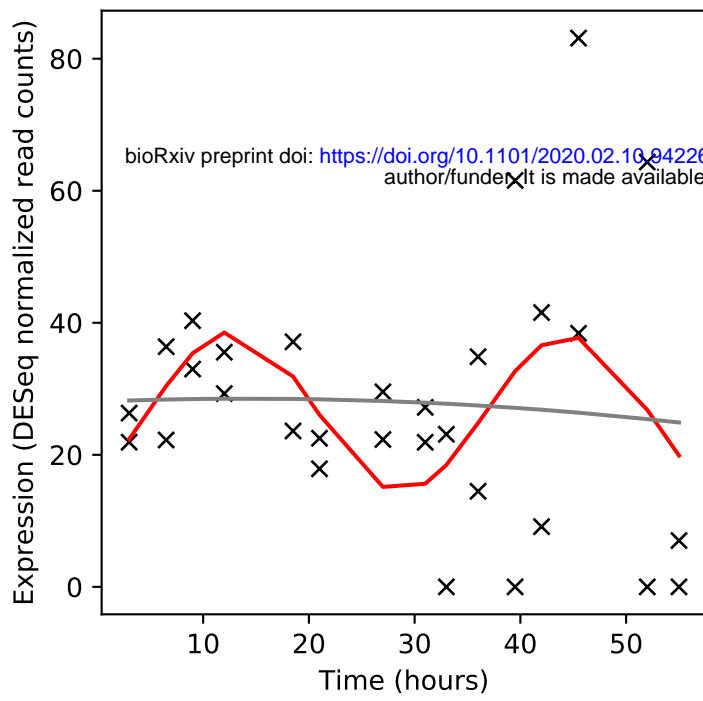
Rv3161c/-



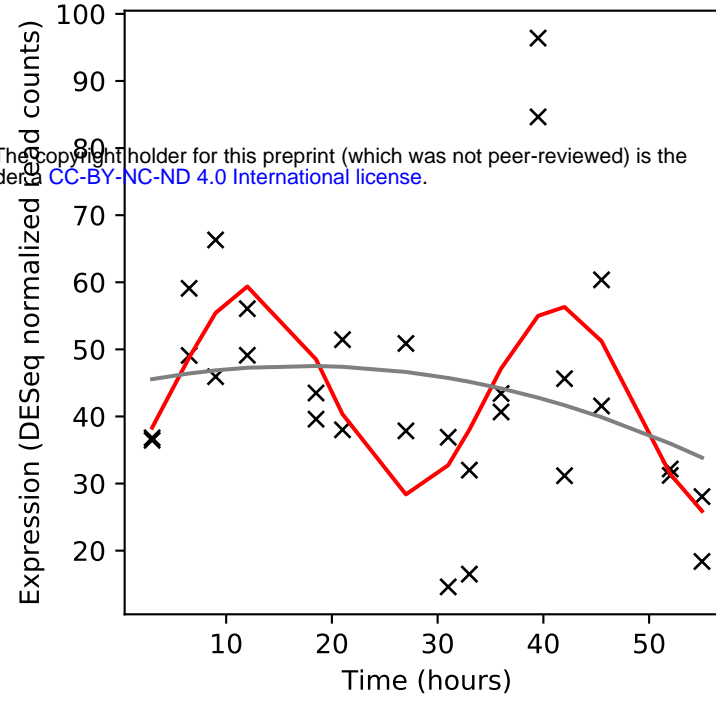
Rv3162c/-



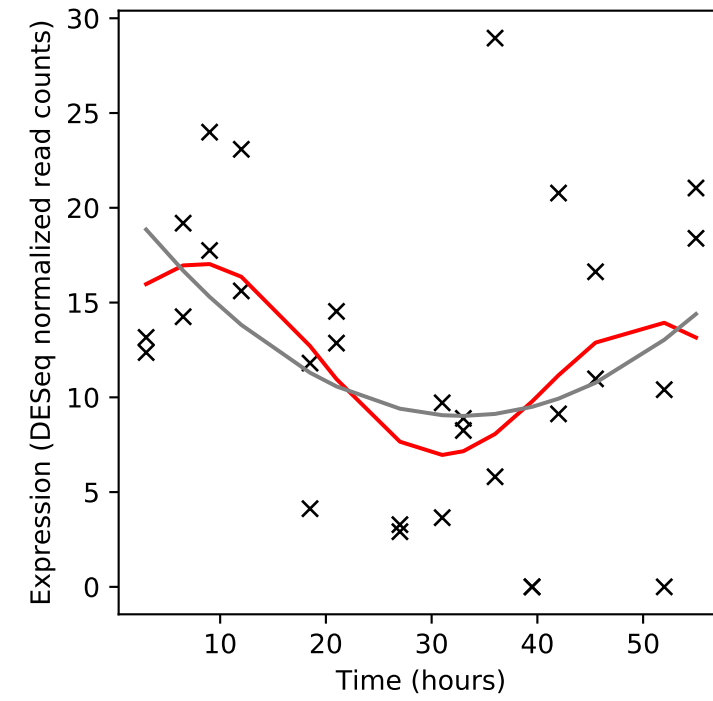
Rv3163c/-



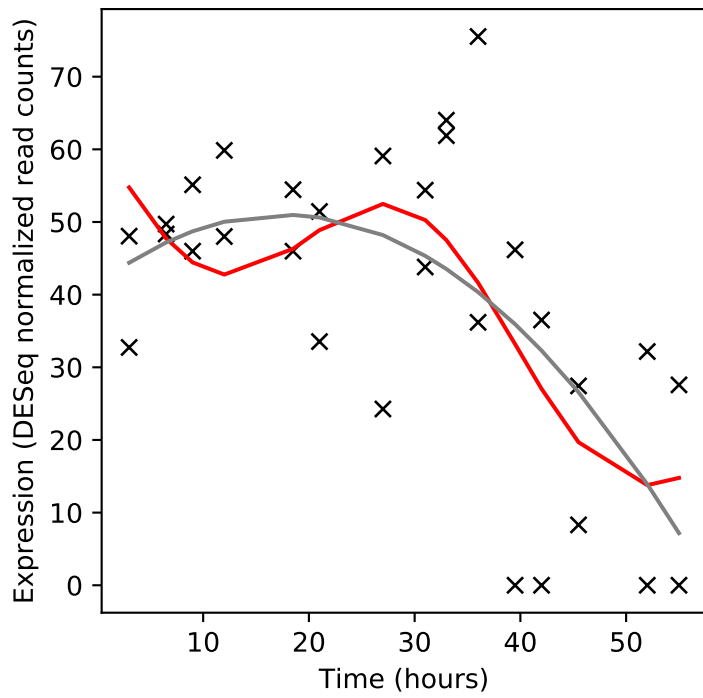
Rv3164c/moxR3



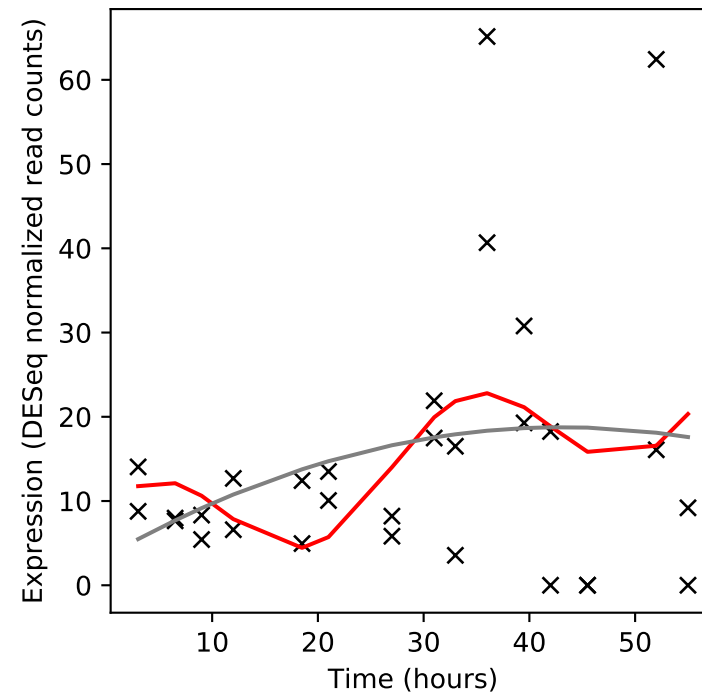
Rv3165c/-



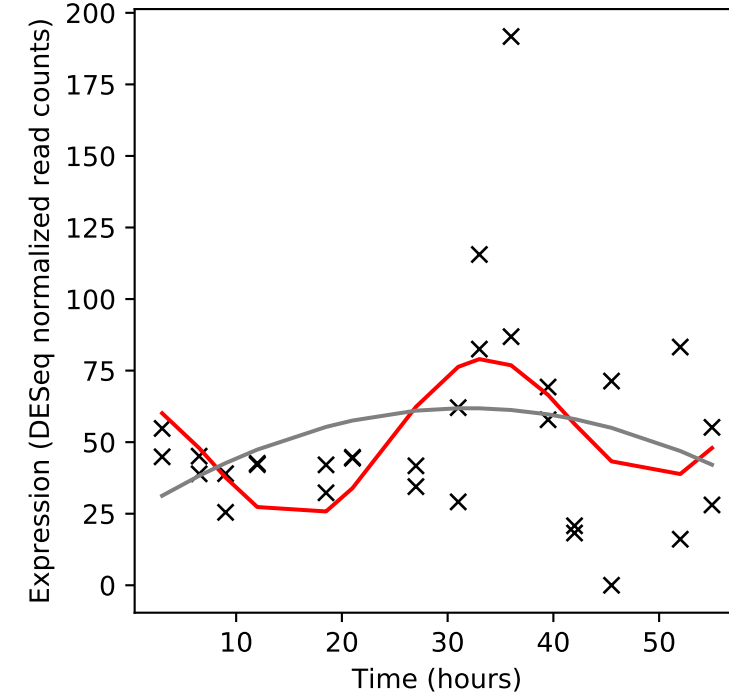
Rv3166c/-



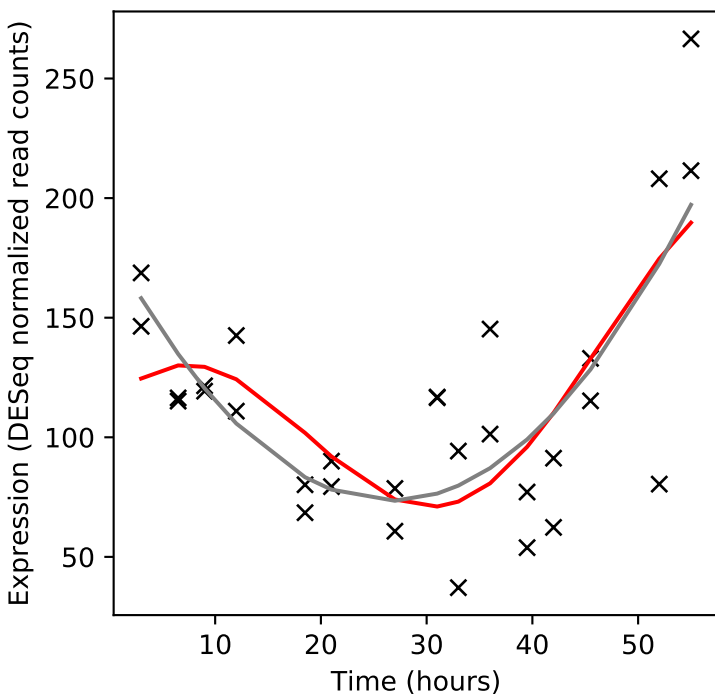
Rv3167c/-



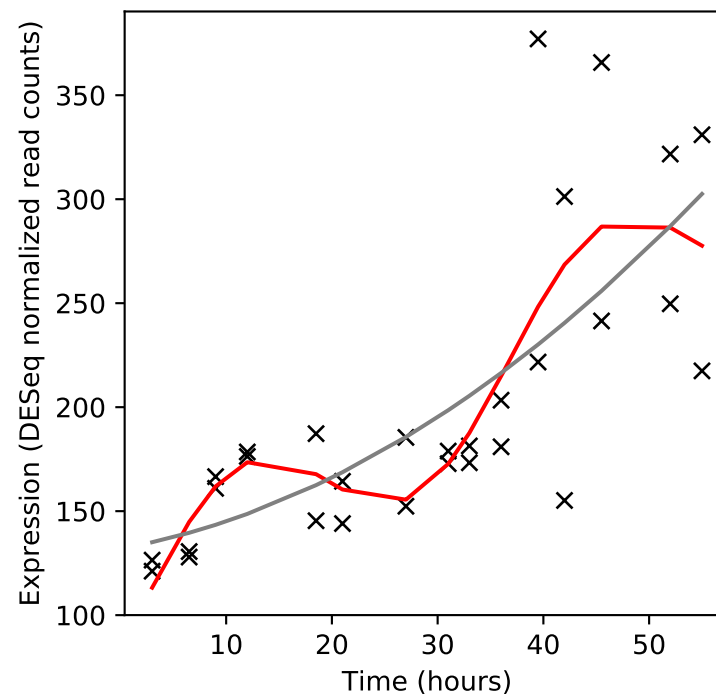
Rv3168/-



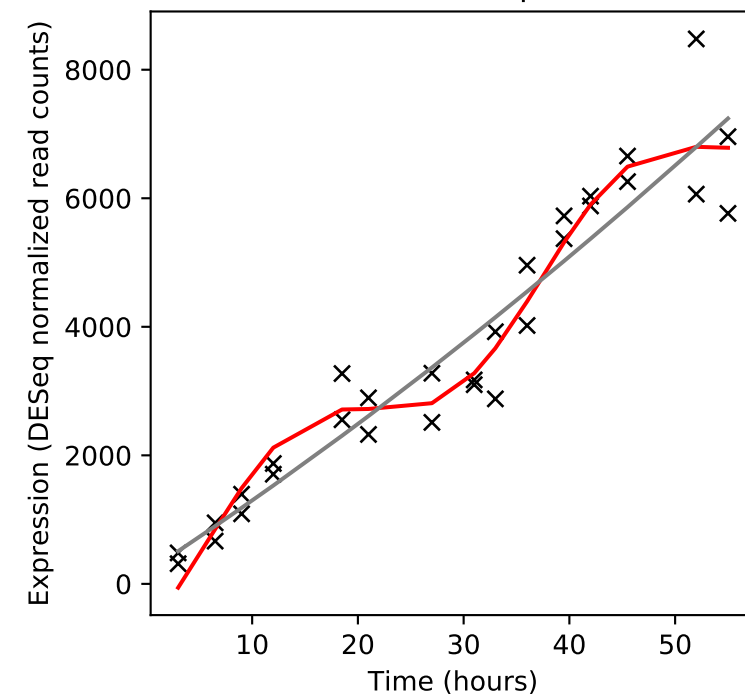
Rv3169/-



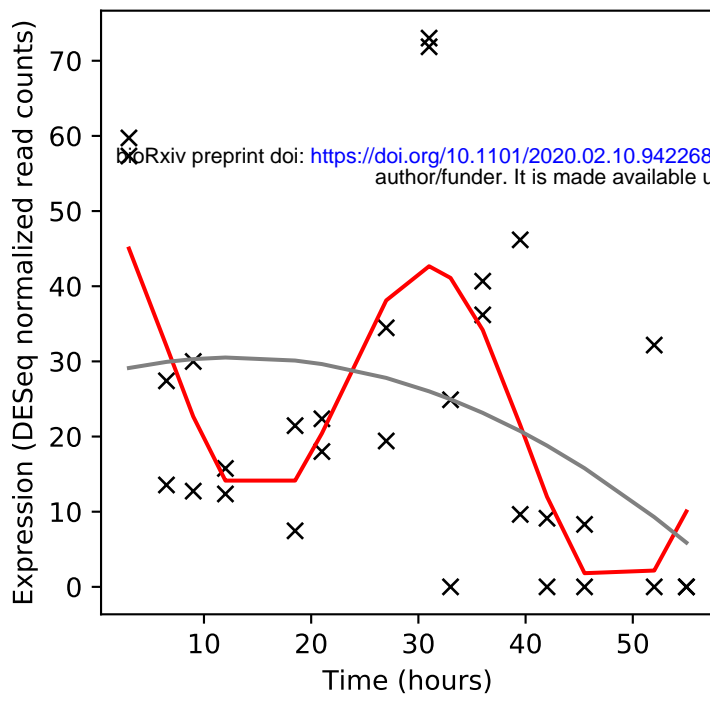
Rv3170/aofH



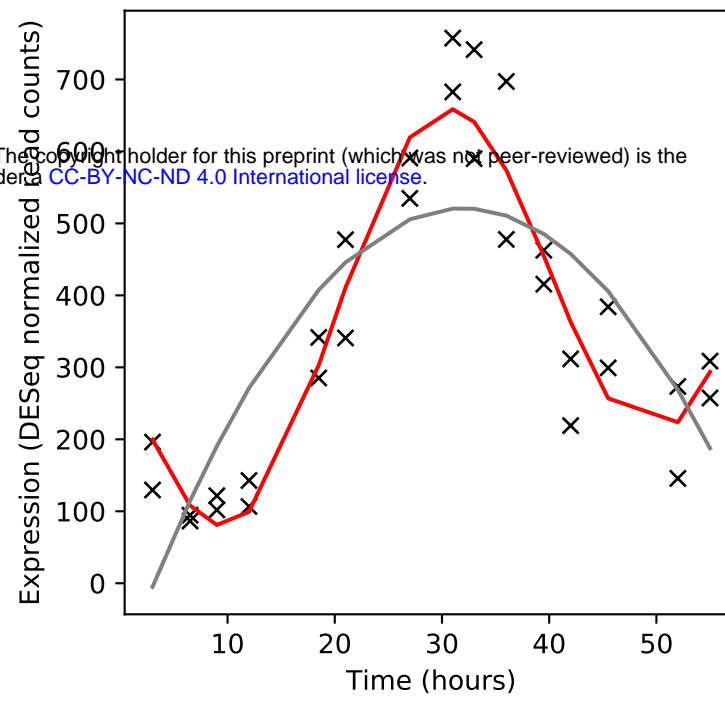
Rv3171c/hpx



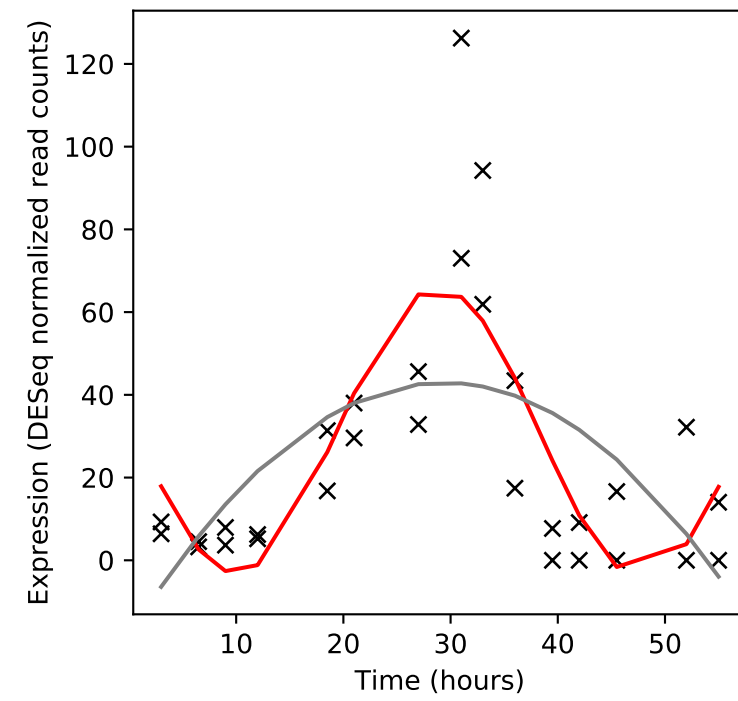
Rv3172c/-



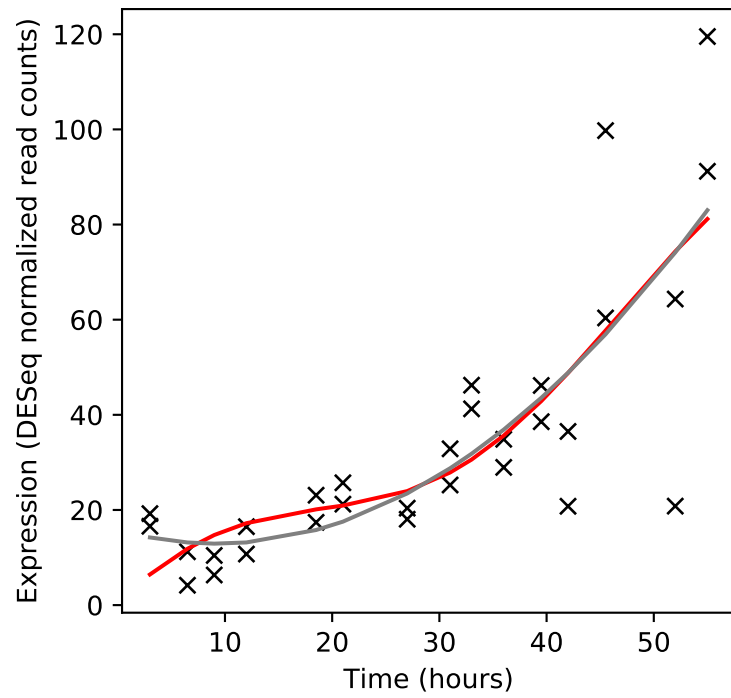
Rv3173c/-



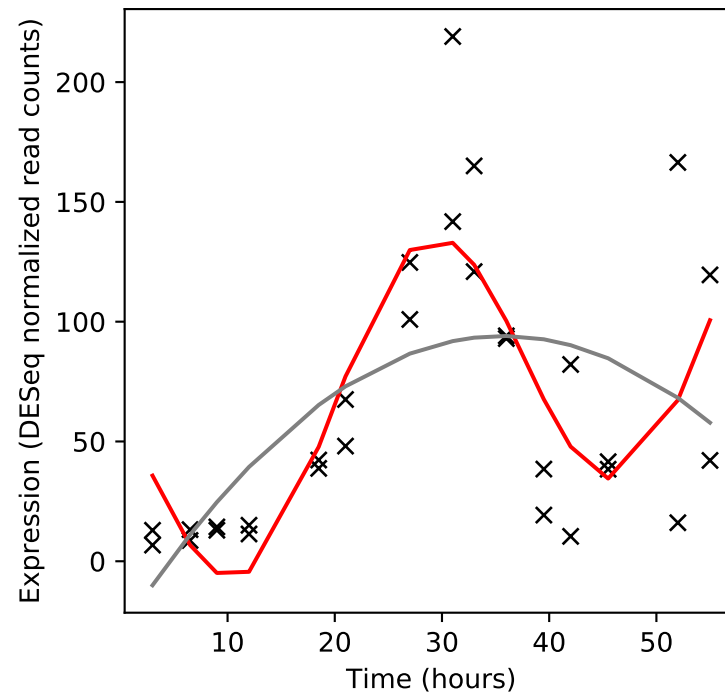
Rv3174/-



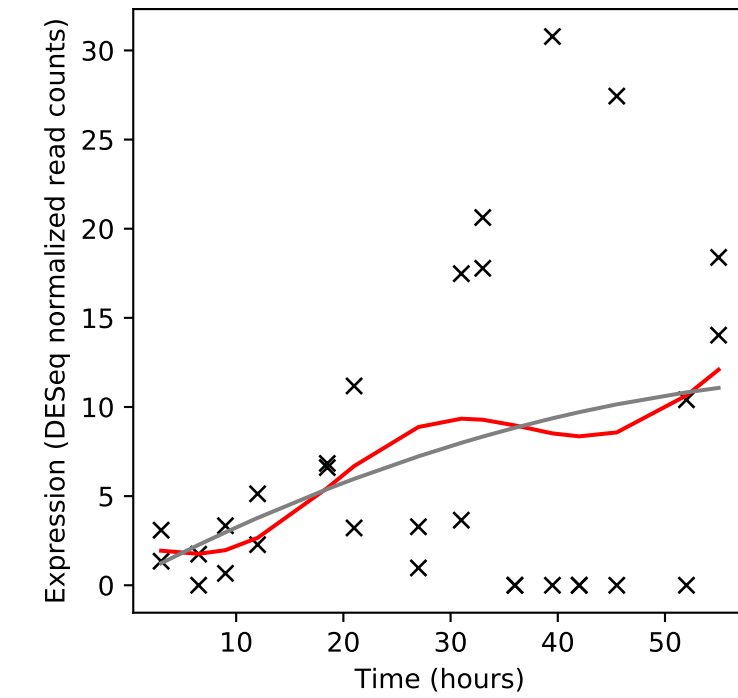
Rv3175/-



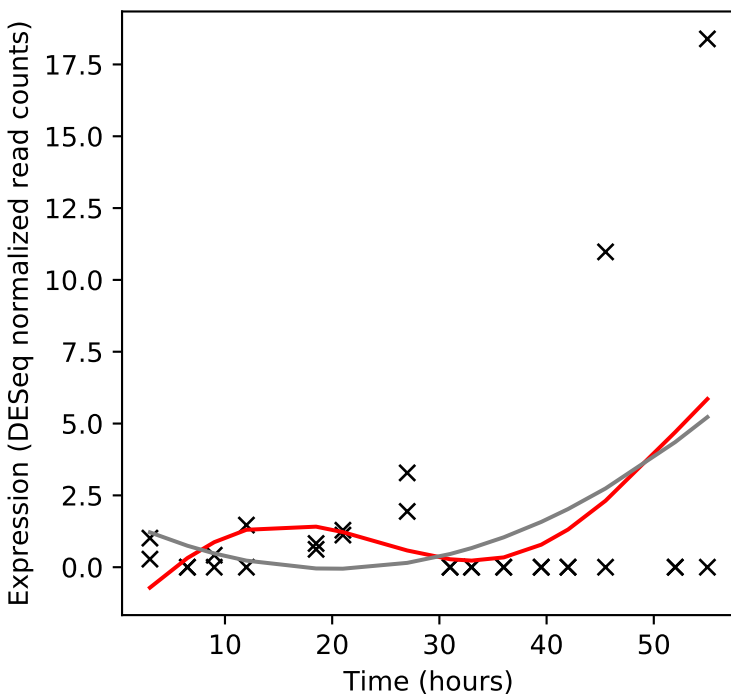
Rv3176c/mesT



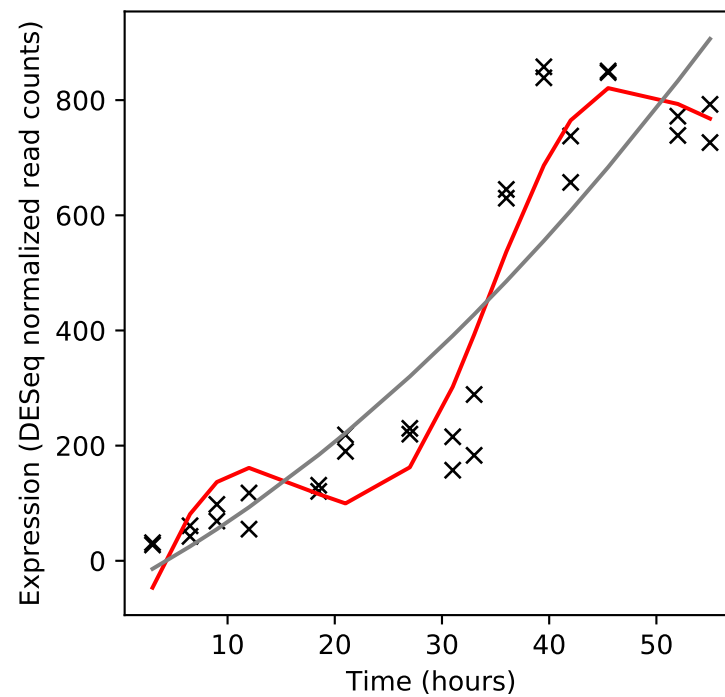
Rv3177/-



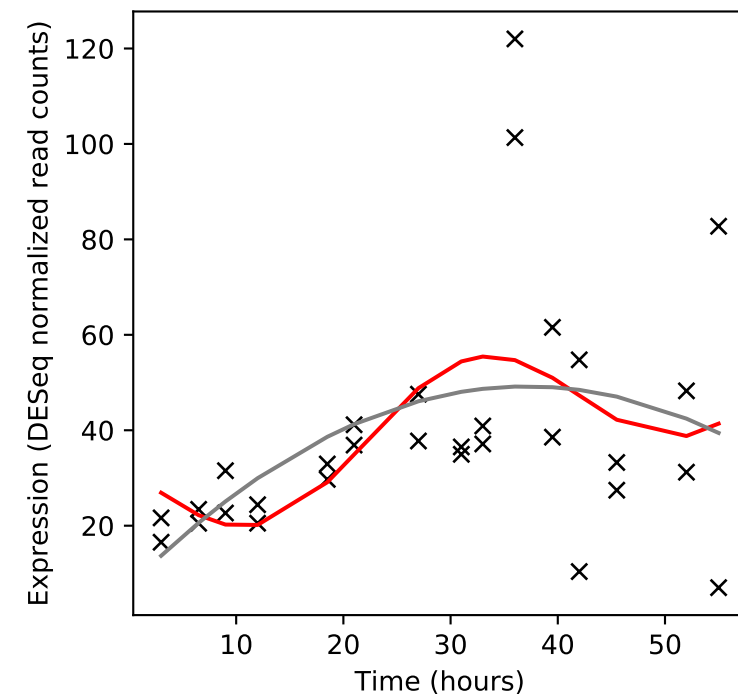
Rv3178/-



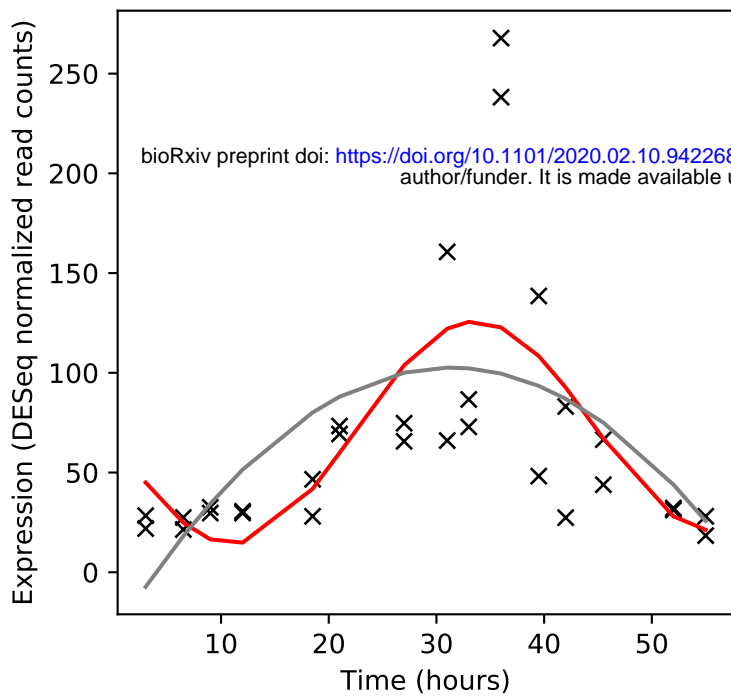
Rv3179/-



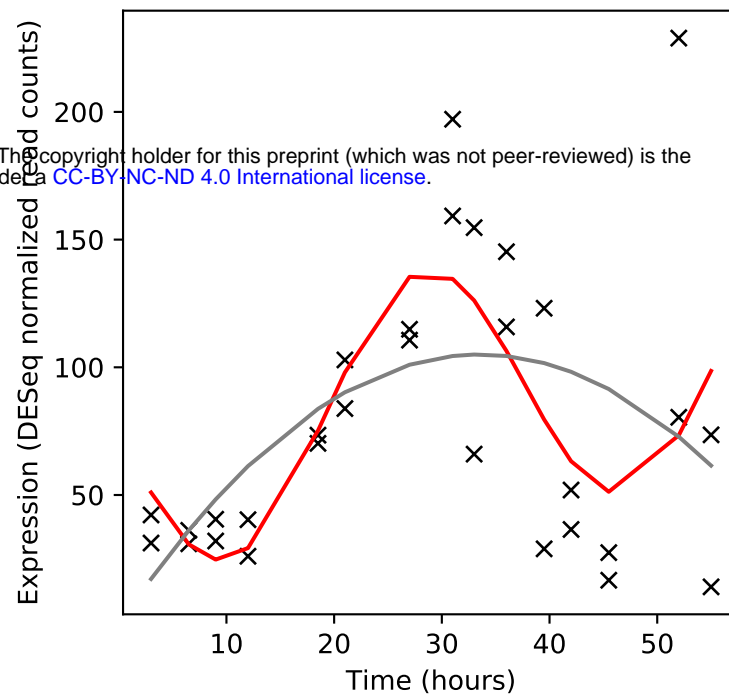
Rv3180c/-



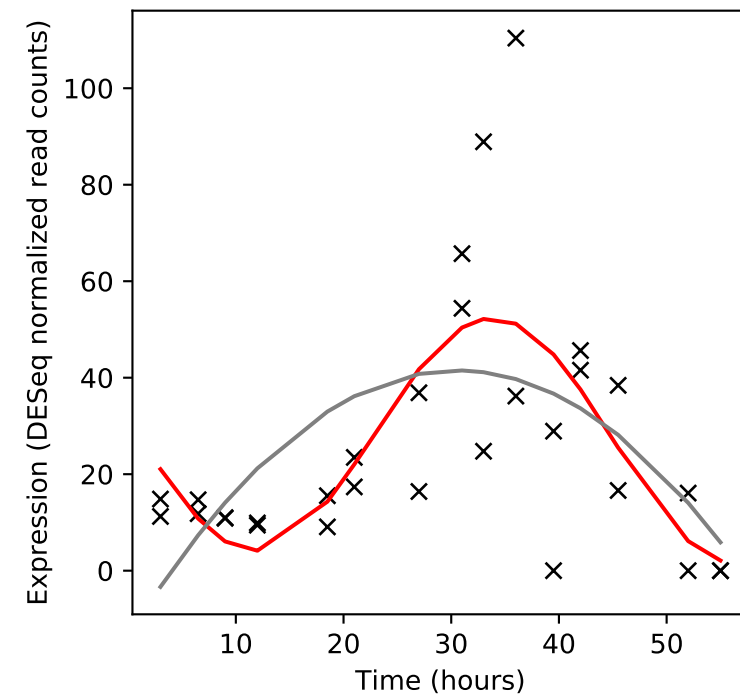
Rv3181c/-



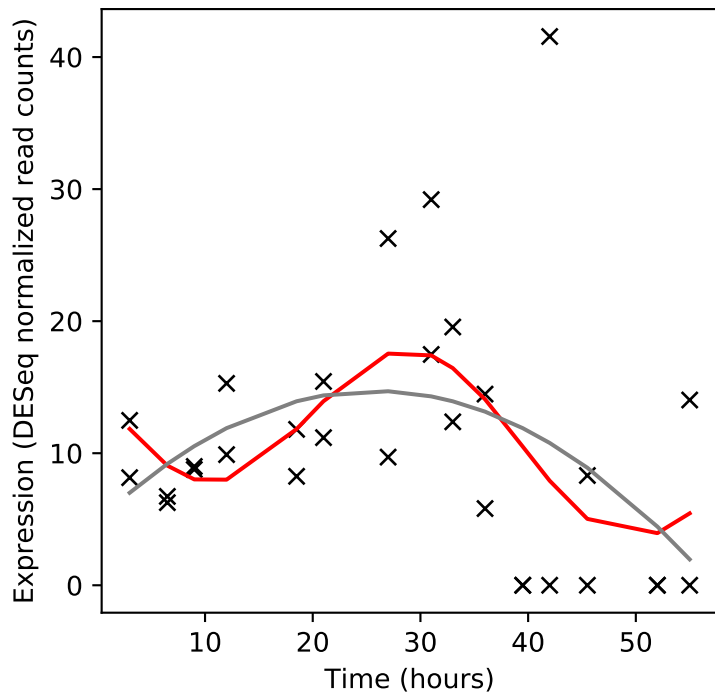
Rv3182/-



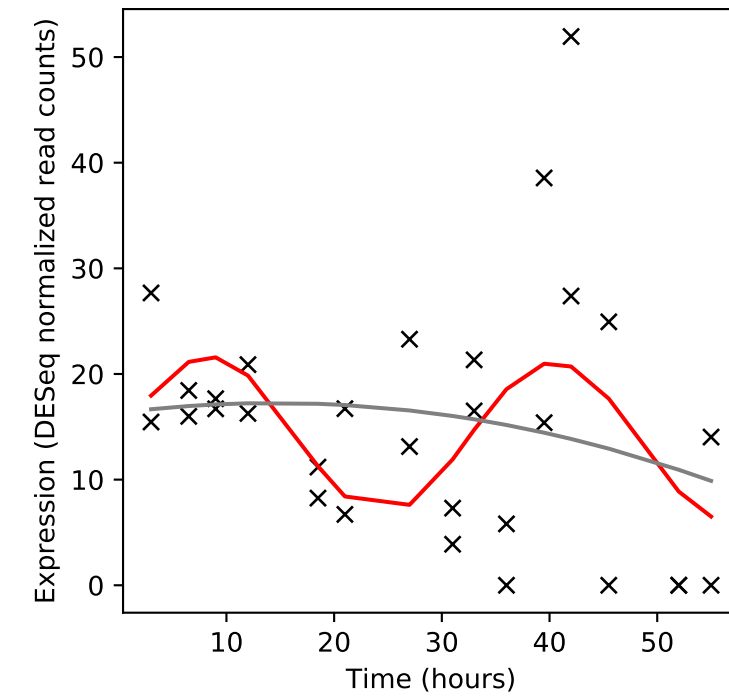
Rv3183/-



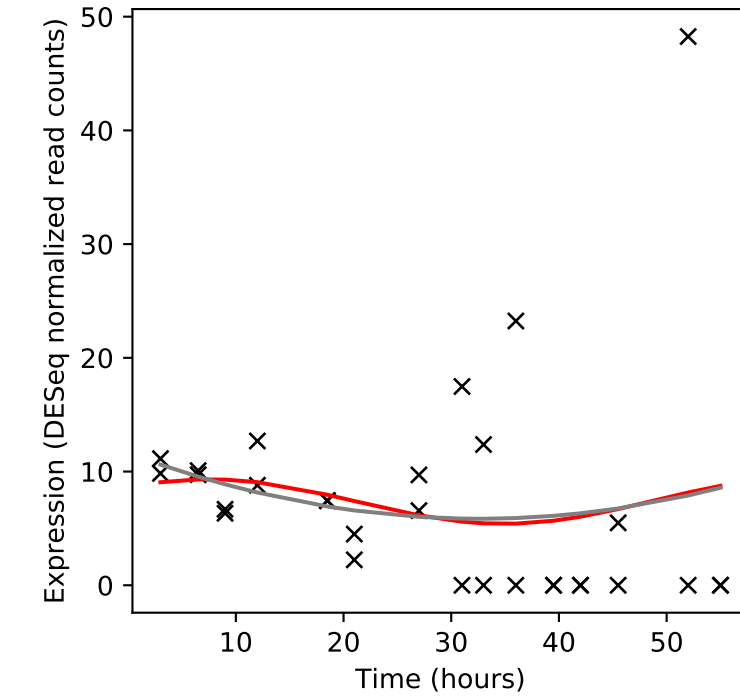
Rv3184/-



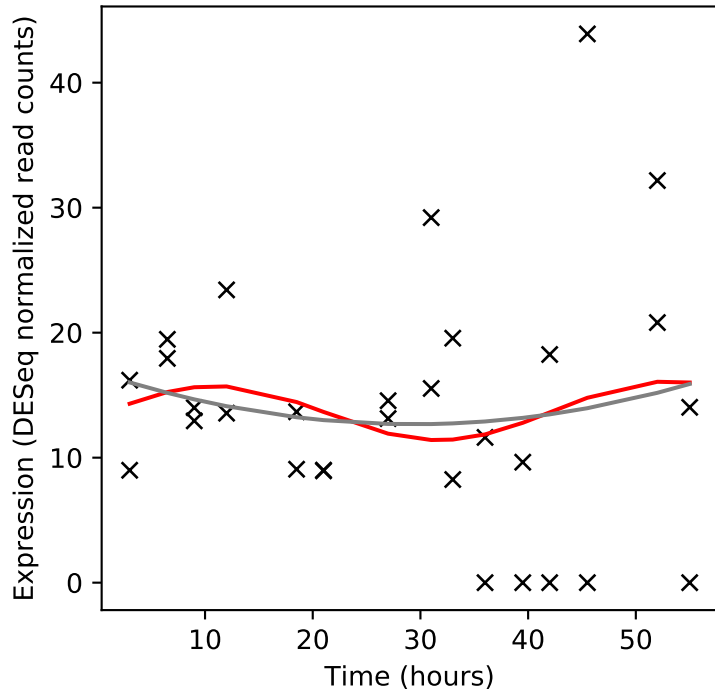
Rv3185/-



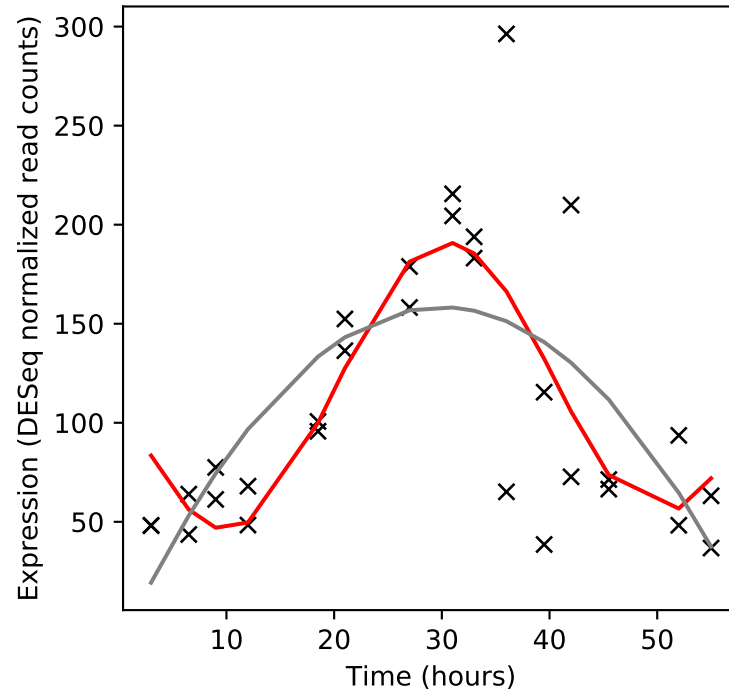
Rv3186/-



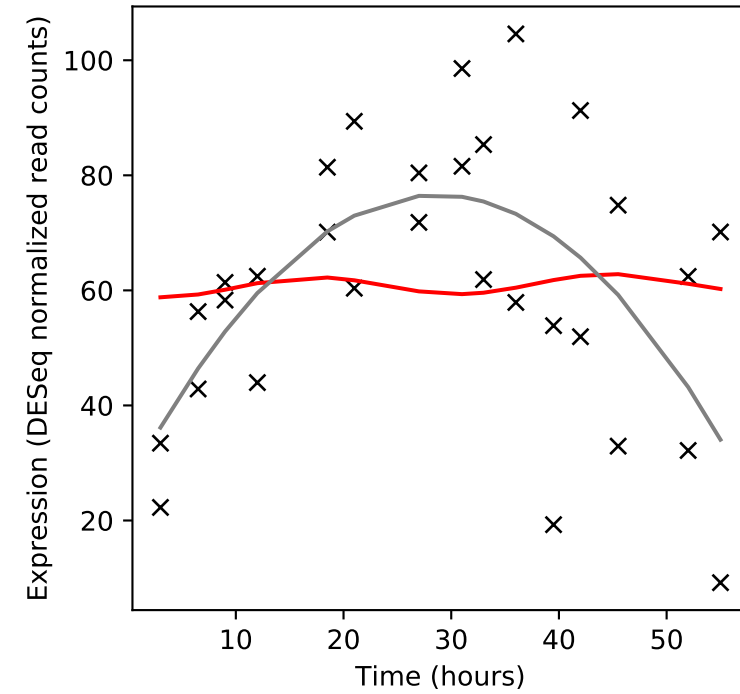
Rv3187/-



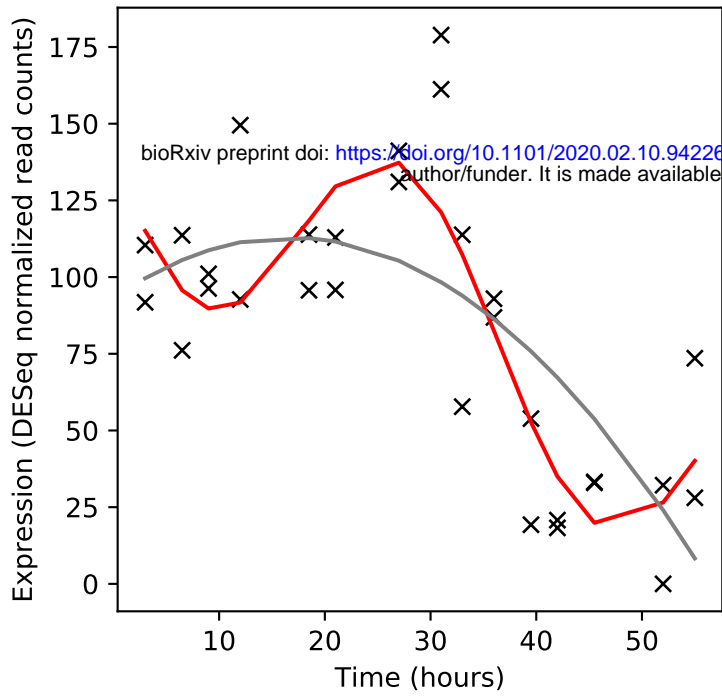
Rv3188/-



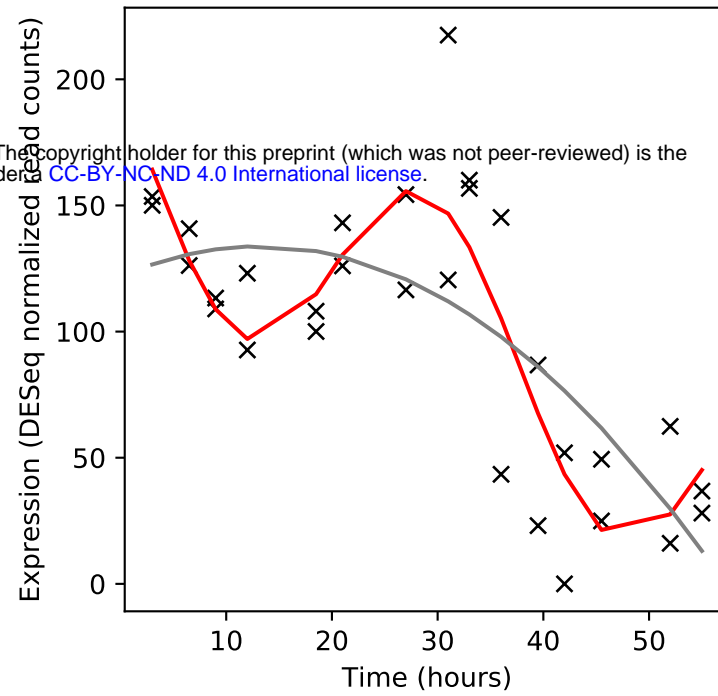
Rv3189/-



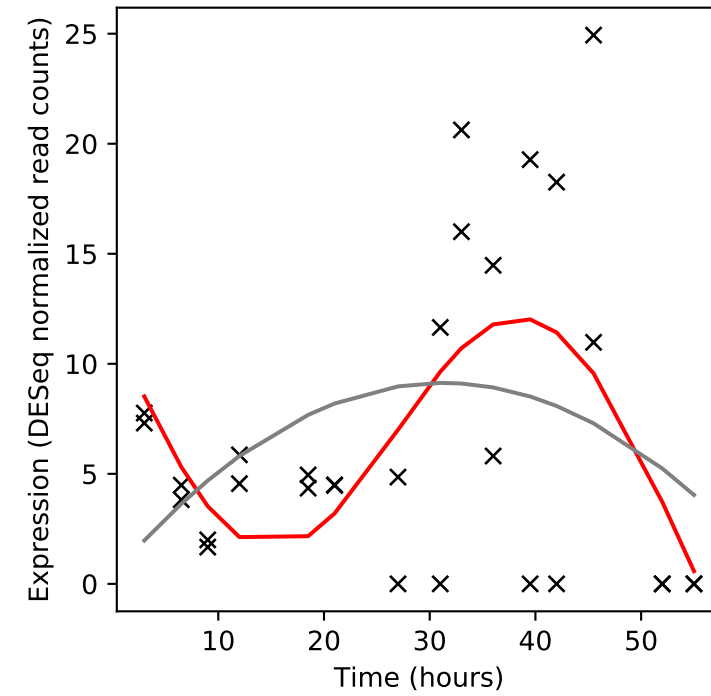
Rv3190c/-



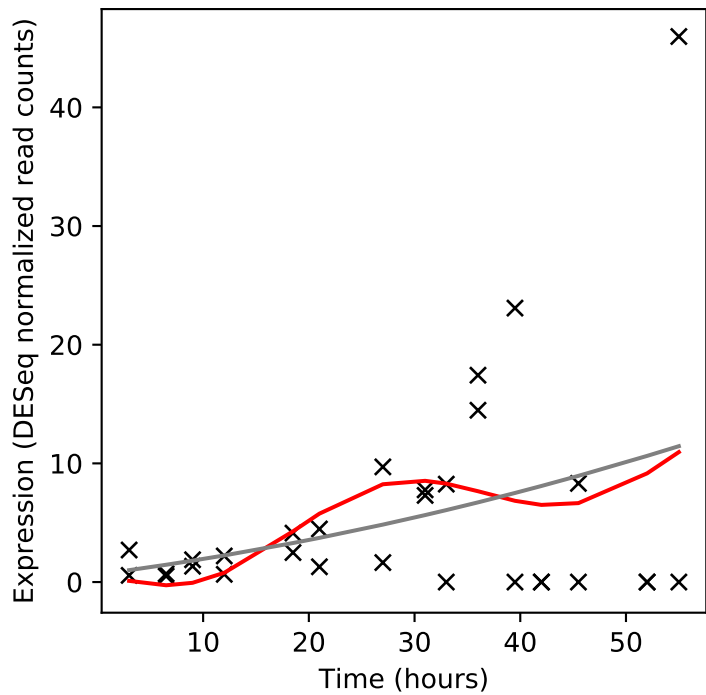
Rv3190A/-



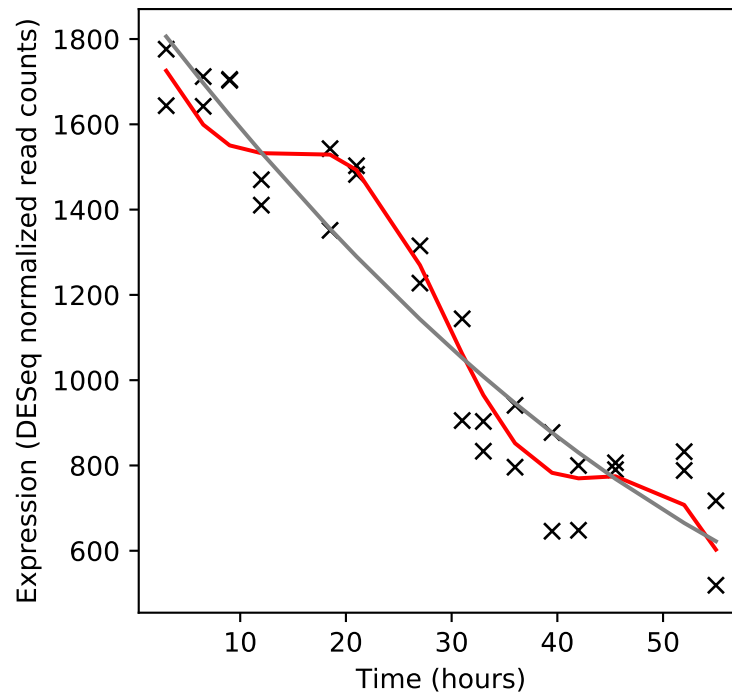
Rv3191c/-



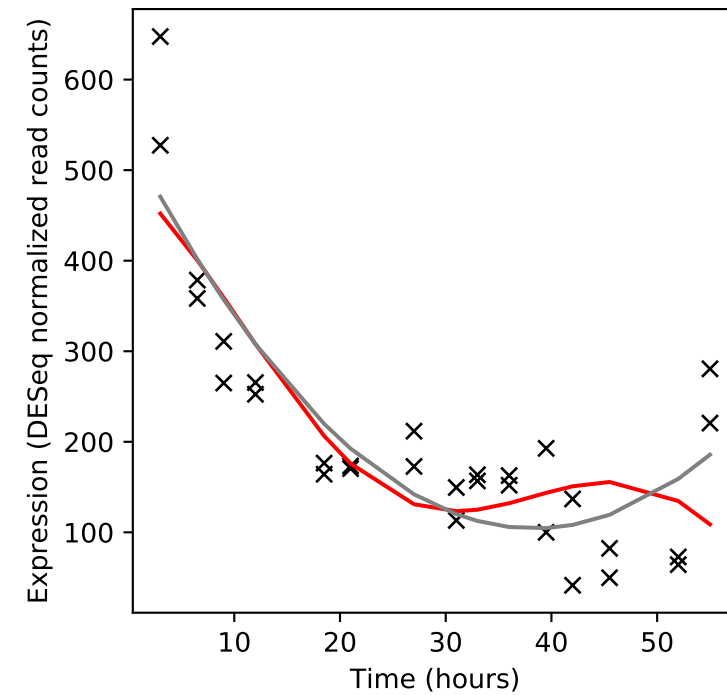
Rv3192/-



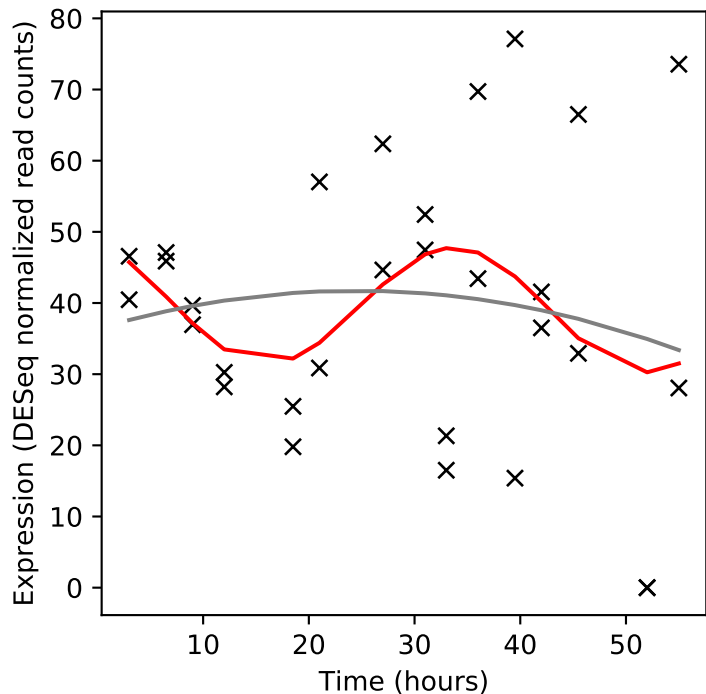
Rv3193c/-



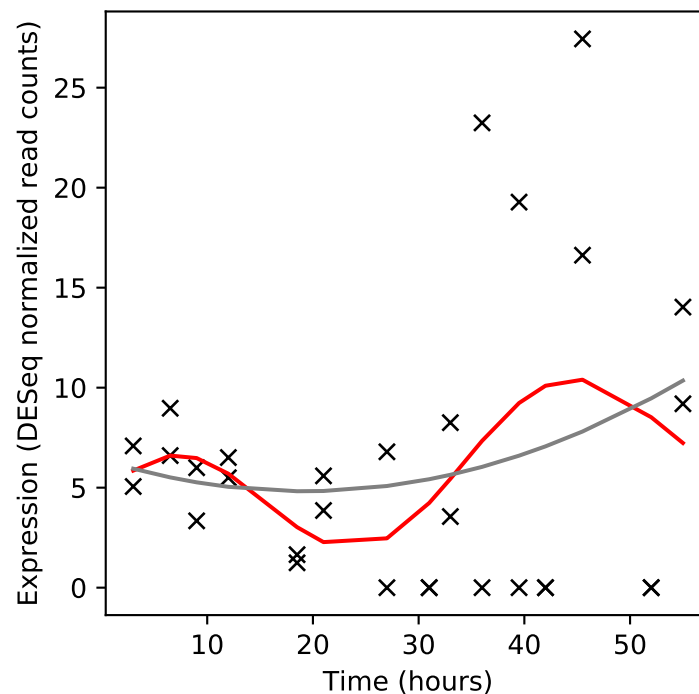
Rv3194c/-



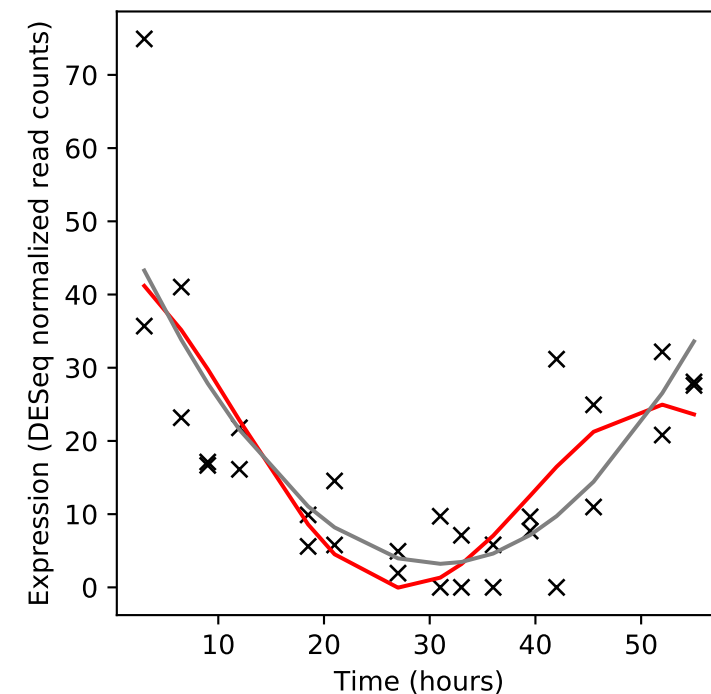
Rv3195/-



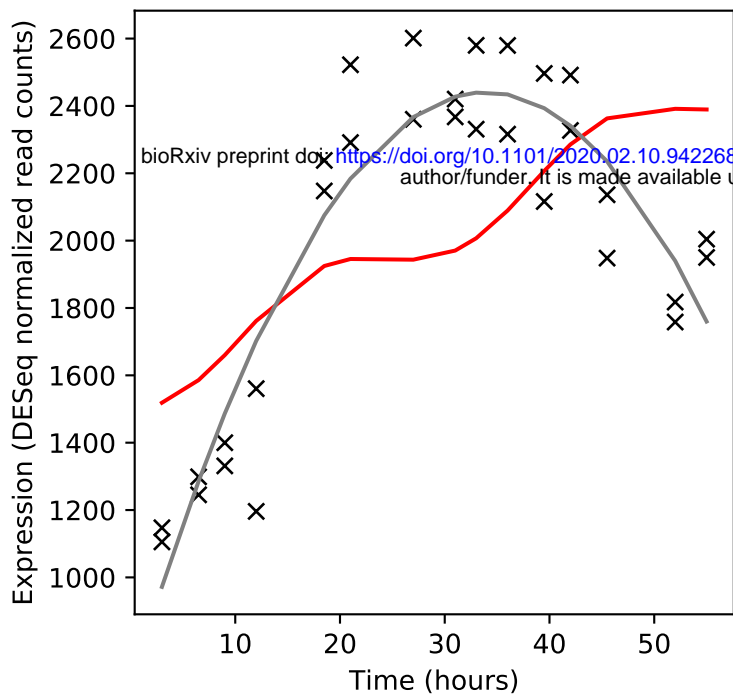
Rv3196/-



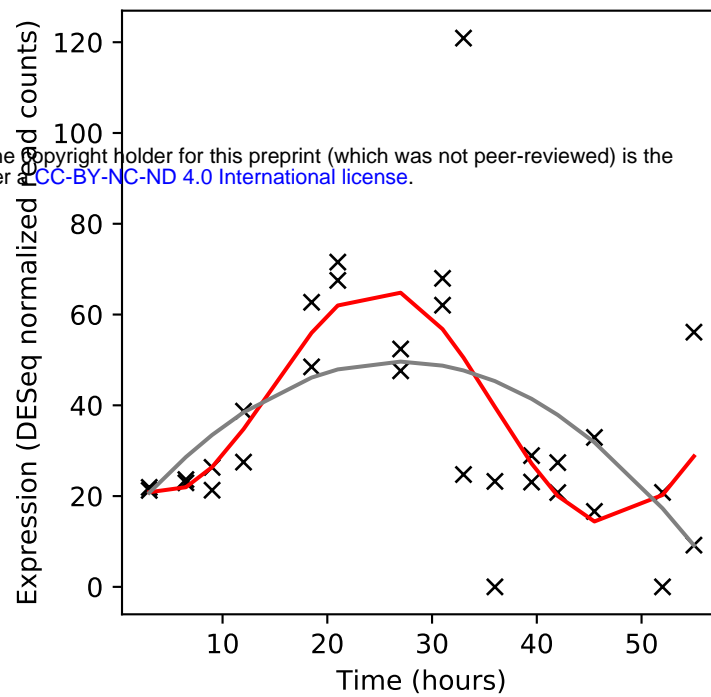
Rv3196A/-



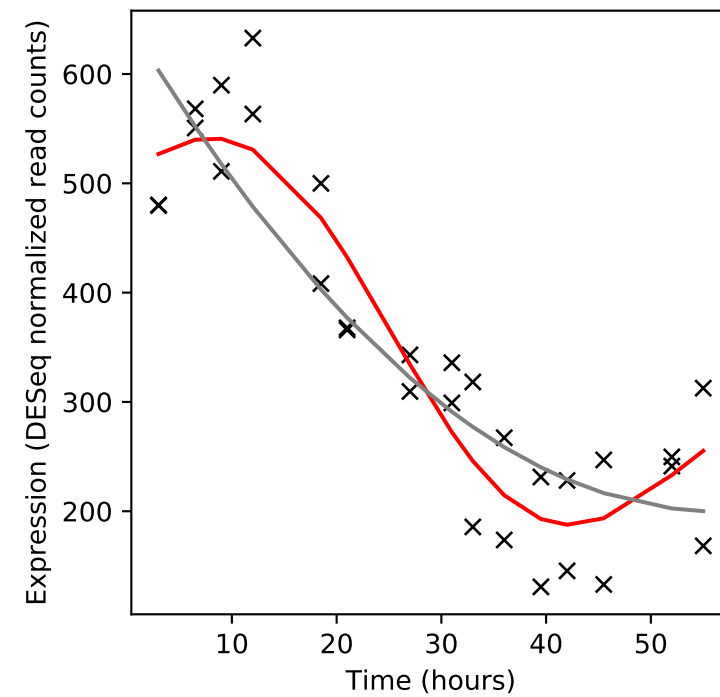
Rv3197/-



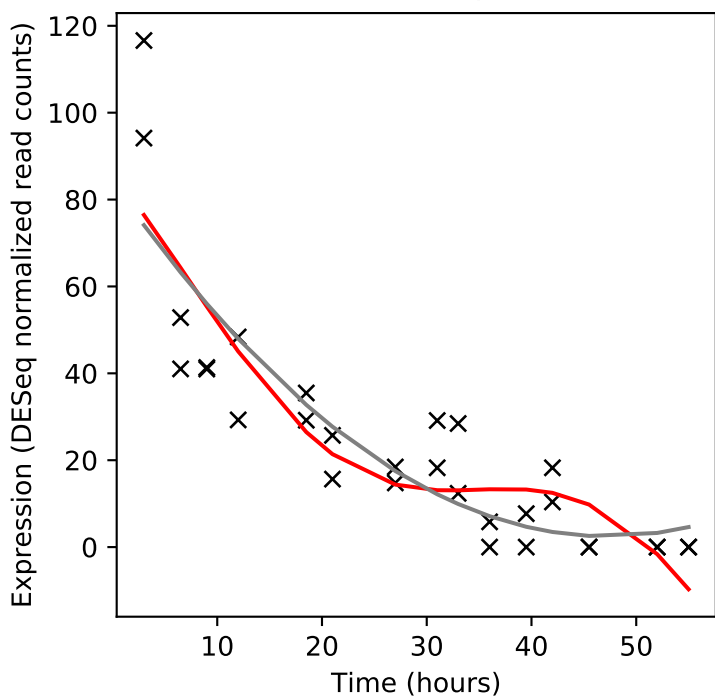
Rv3197A/whiB7



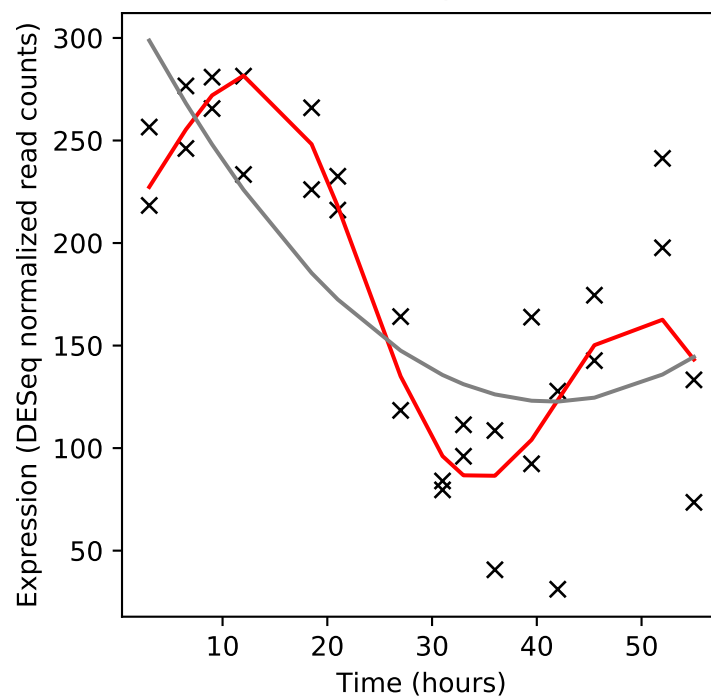
Rv3198c/uvrD2



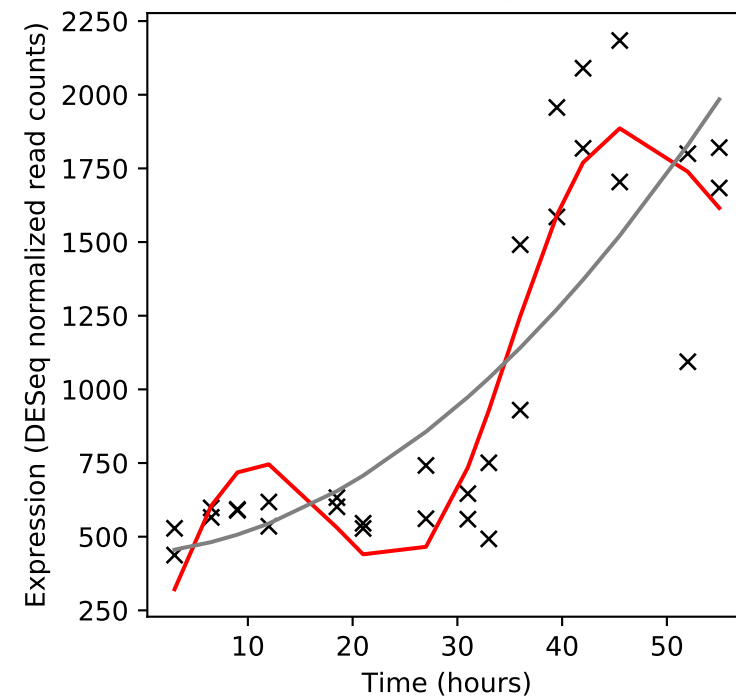
Rv3198A/-



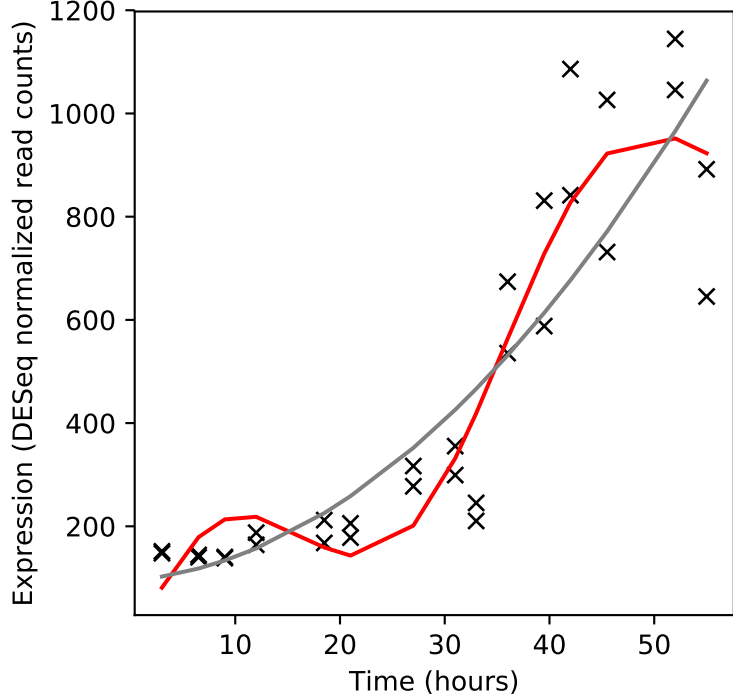
Rv3199c/nudC



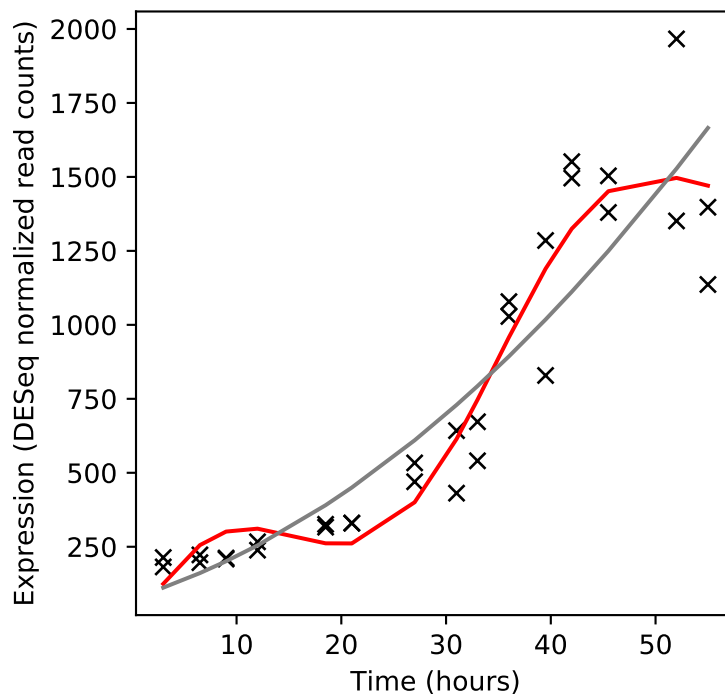
Rv3200c/-



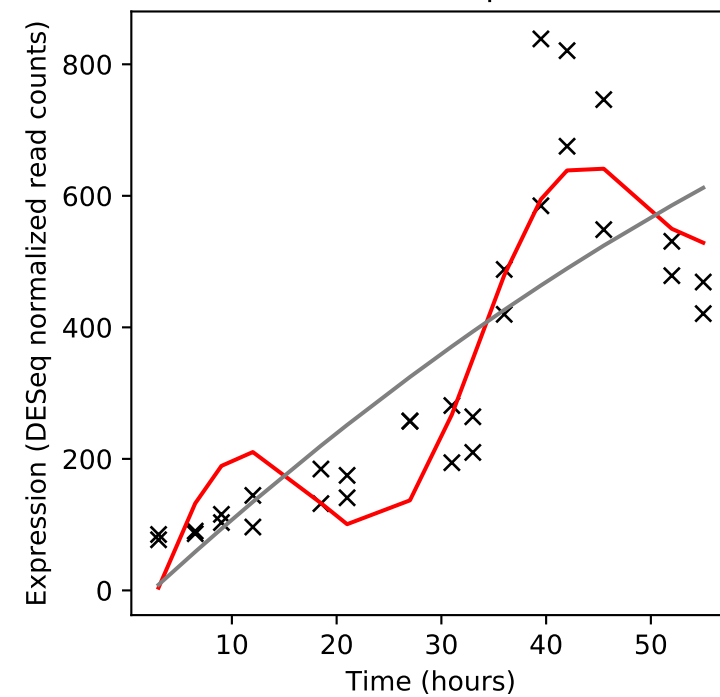
Rv3201c/-



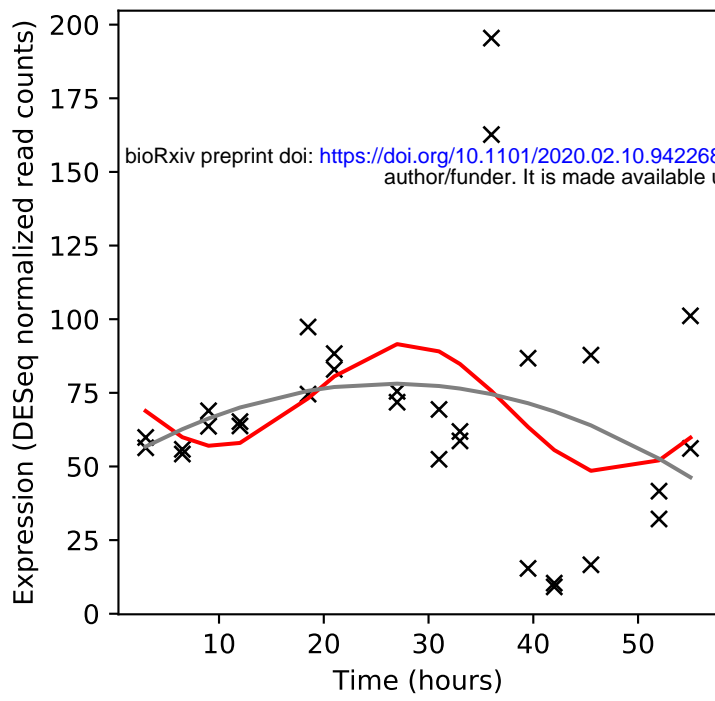
Rv3202c/-



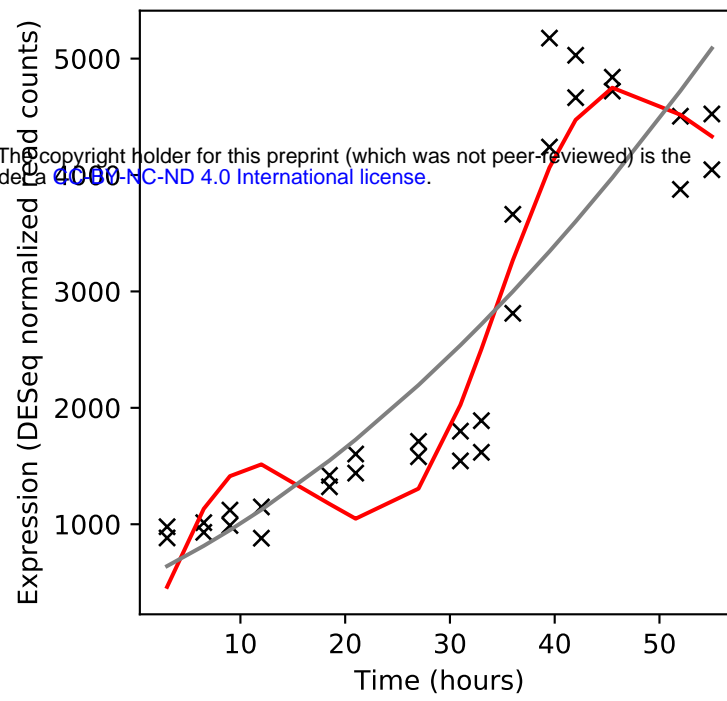
Rv3203/lipV



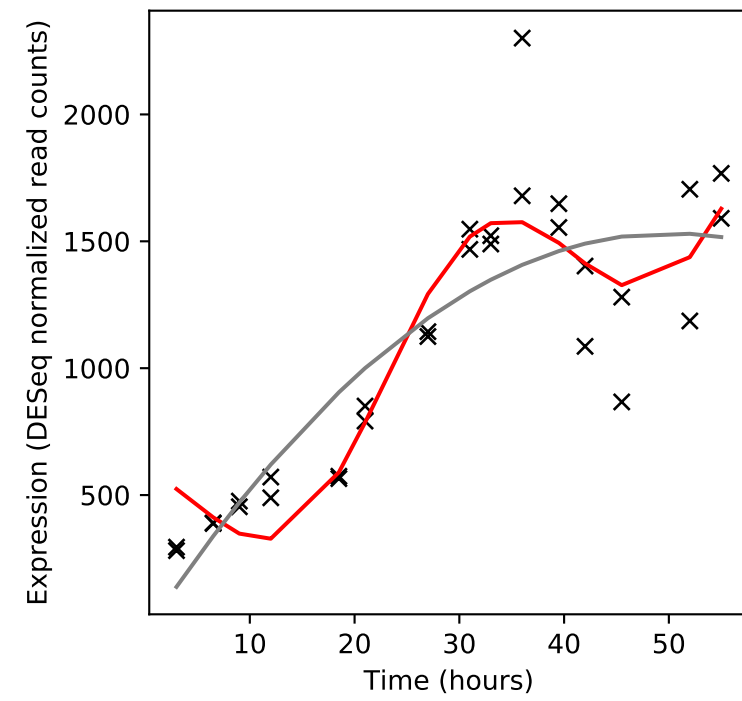
Rv3204/-



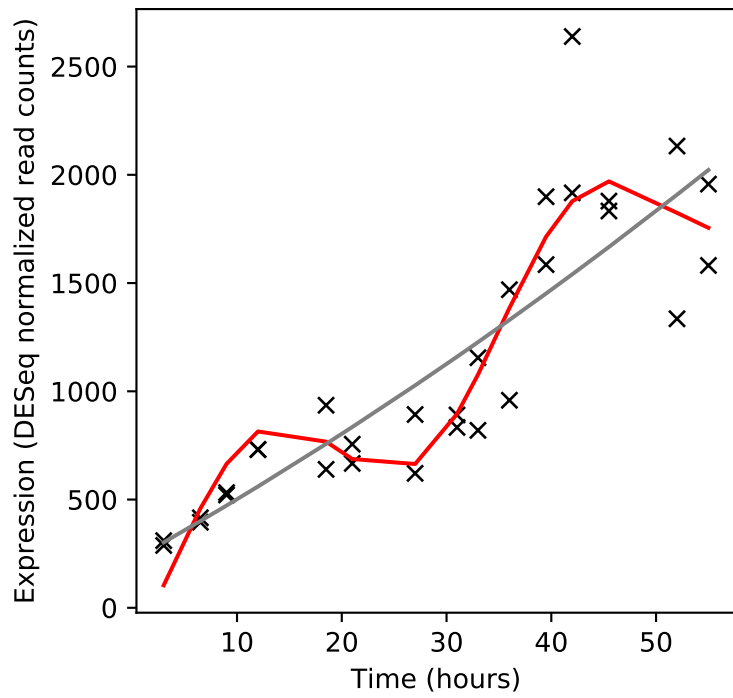
Rv3205c/-



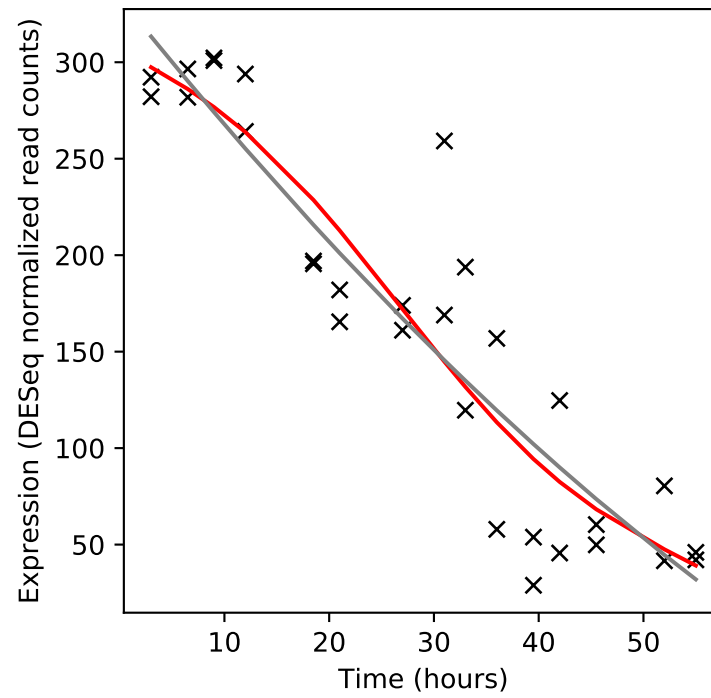
Rv3206c/moeB1



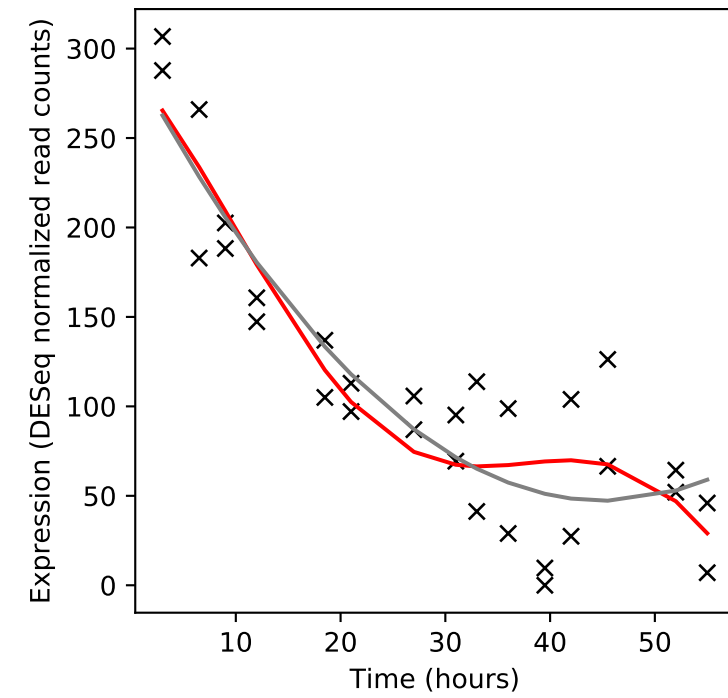
Rv3207c/-



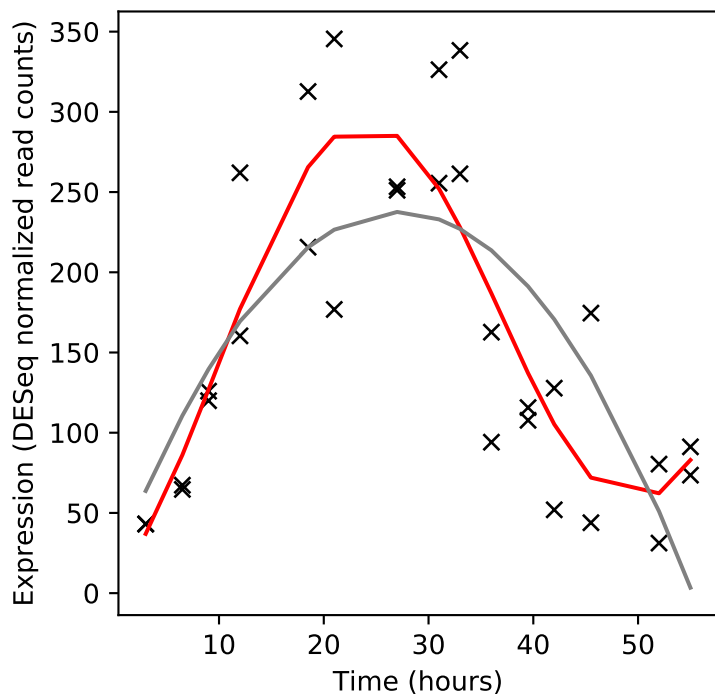
Rv3208/-



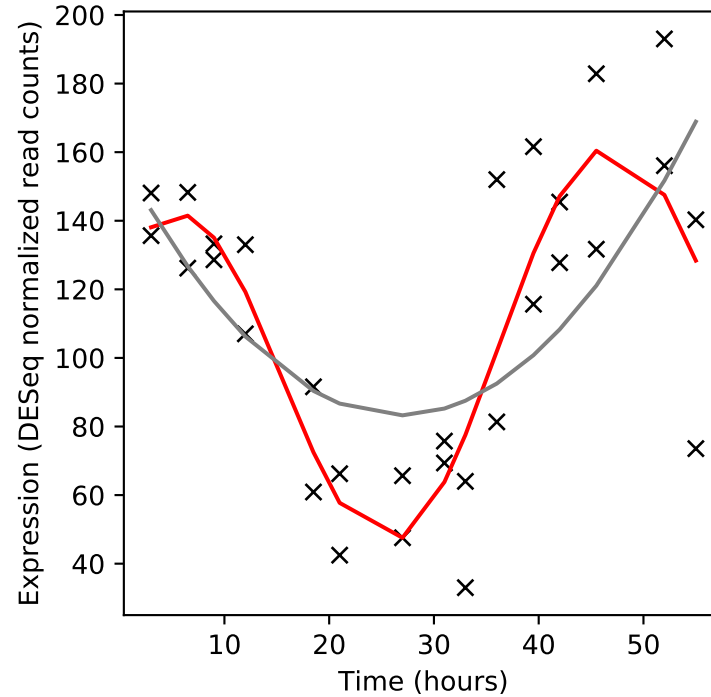
Rv3208A/TB9.4



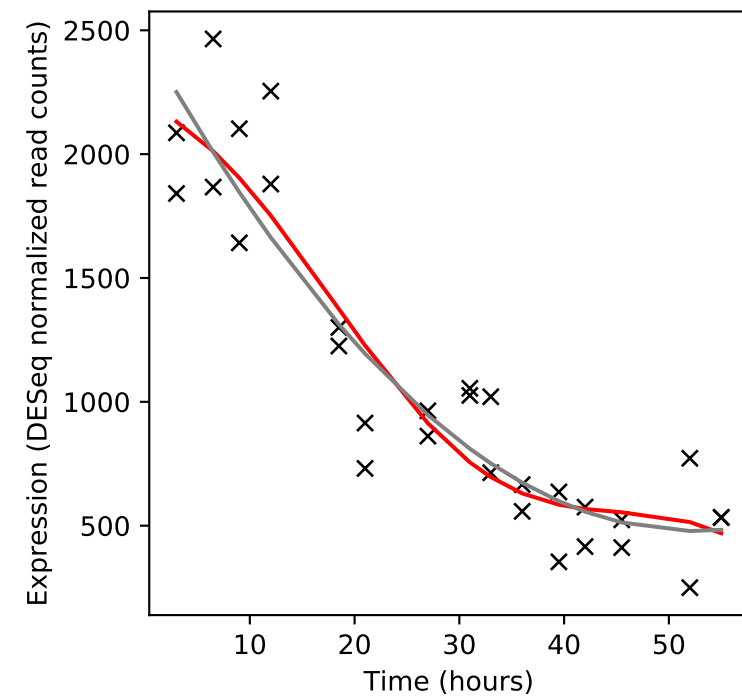
Rv3209/-



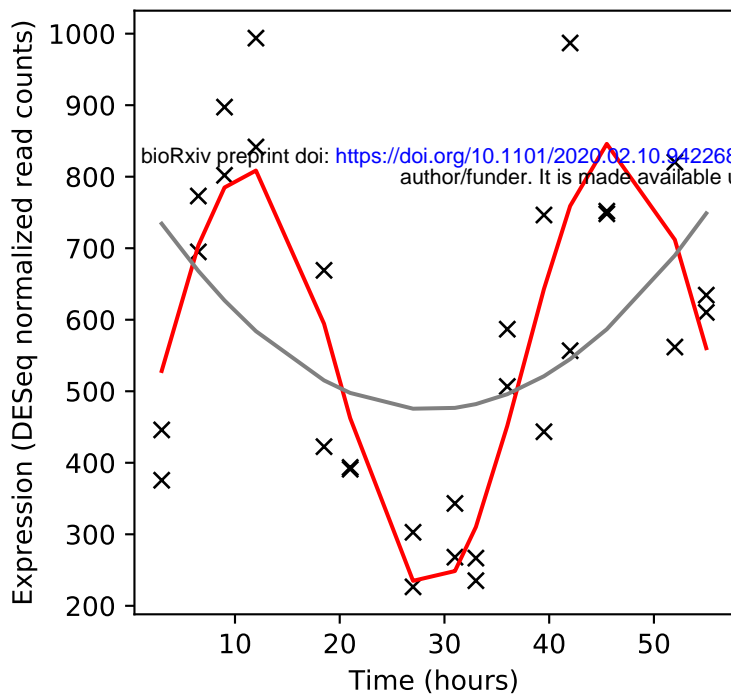
Rv3210c/-



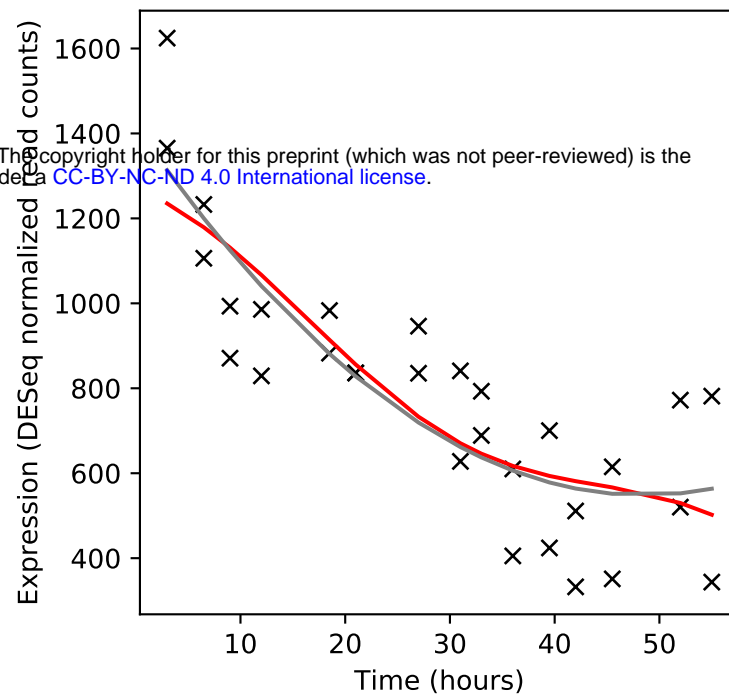
Rv3211/rhIE



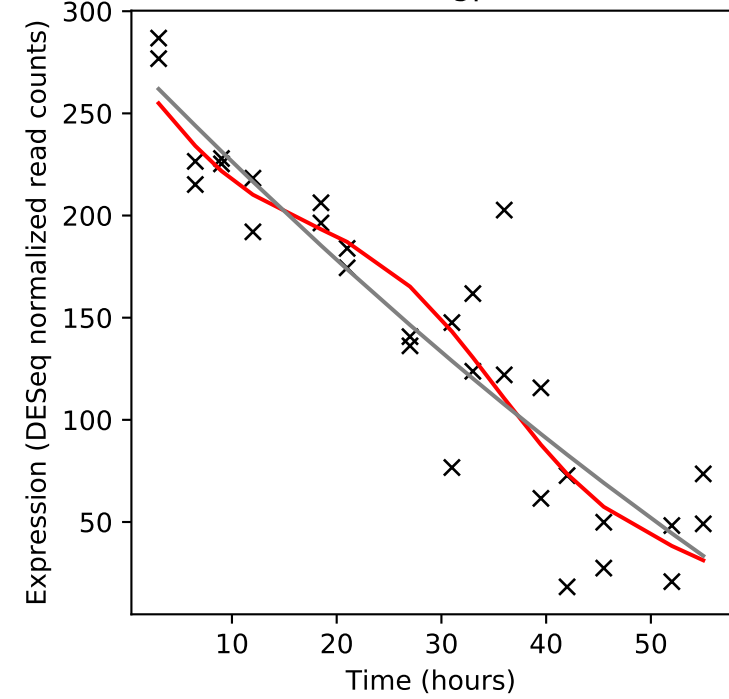
Rv3212/-



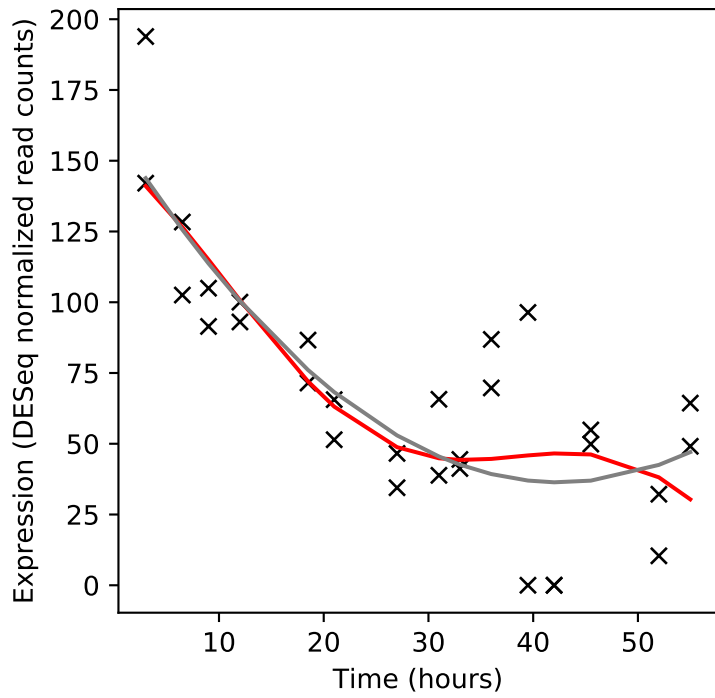
Rv3213c/-



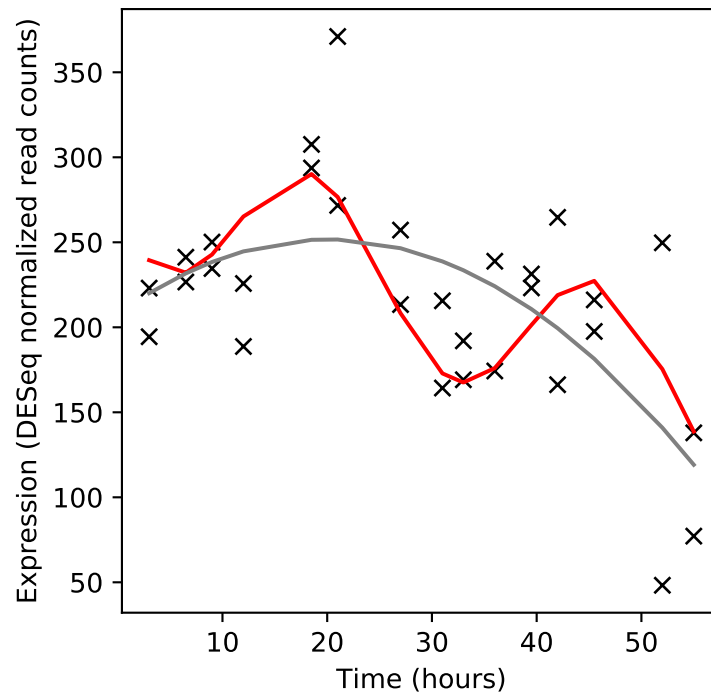
Rv3214/gpm2



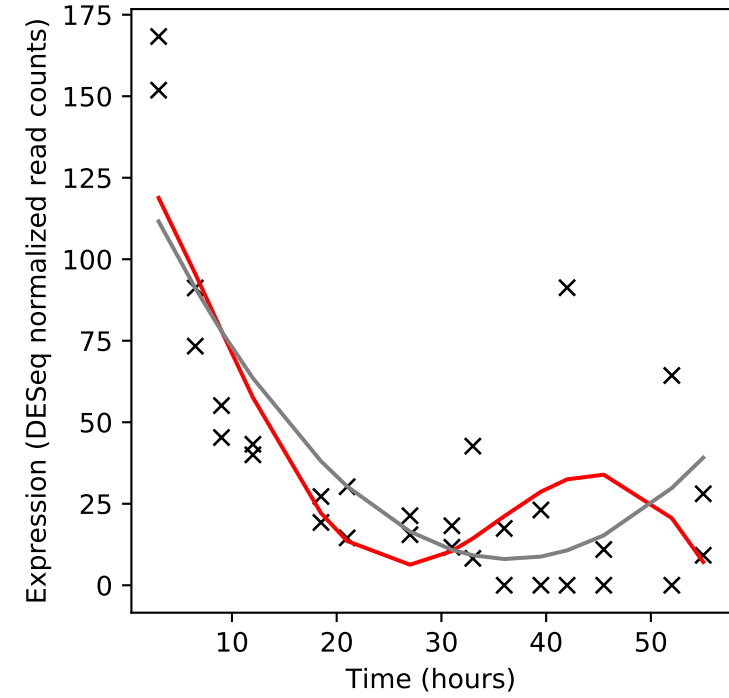
Rv3215/entC



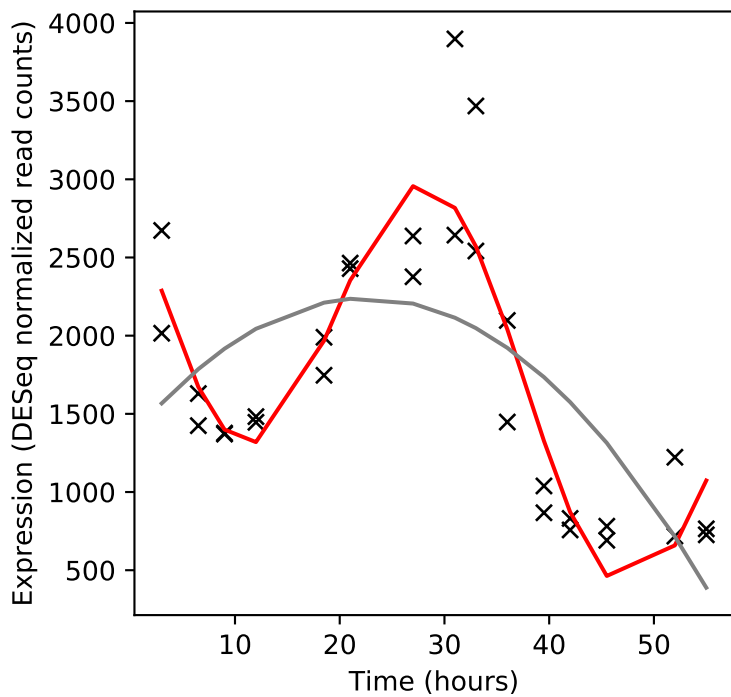
Rv3217c/-



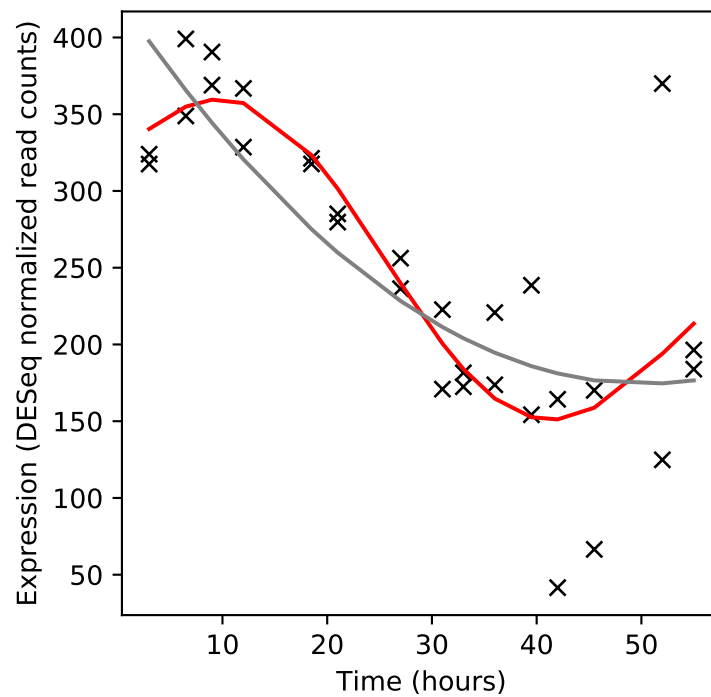
Rv3218/-



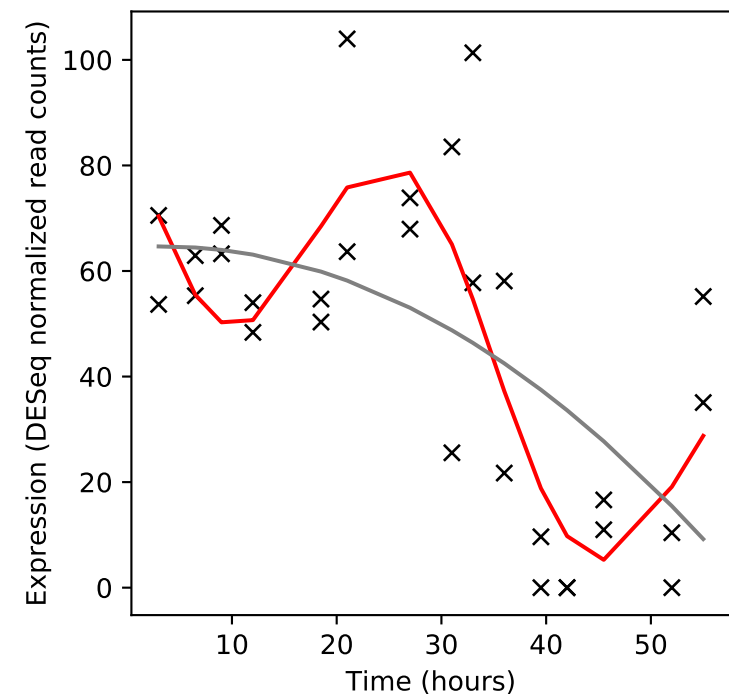
Rv3219/whiB1



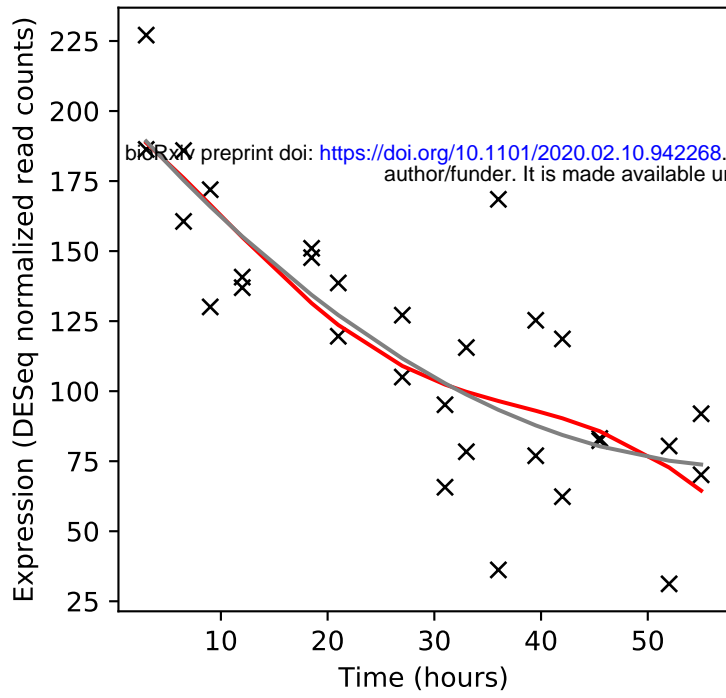
Rv3220c/-



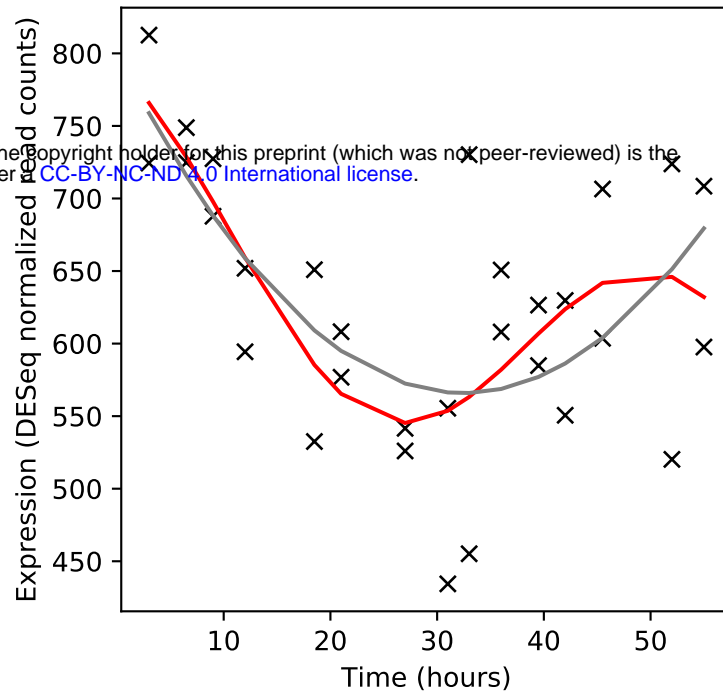
Rv3221c/TB7.3



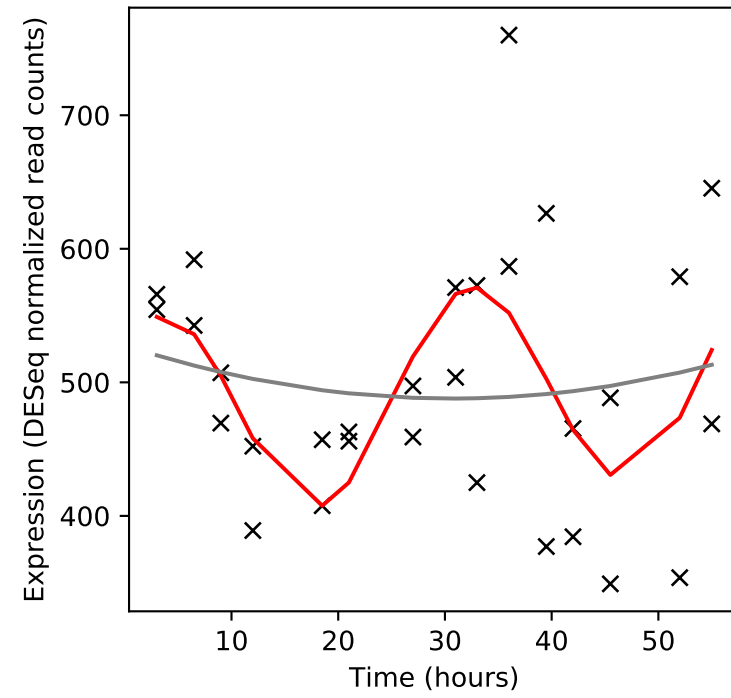
Rv3221A/rshA



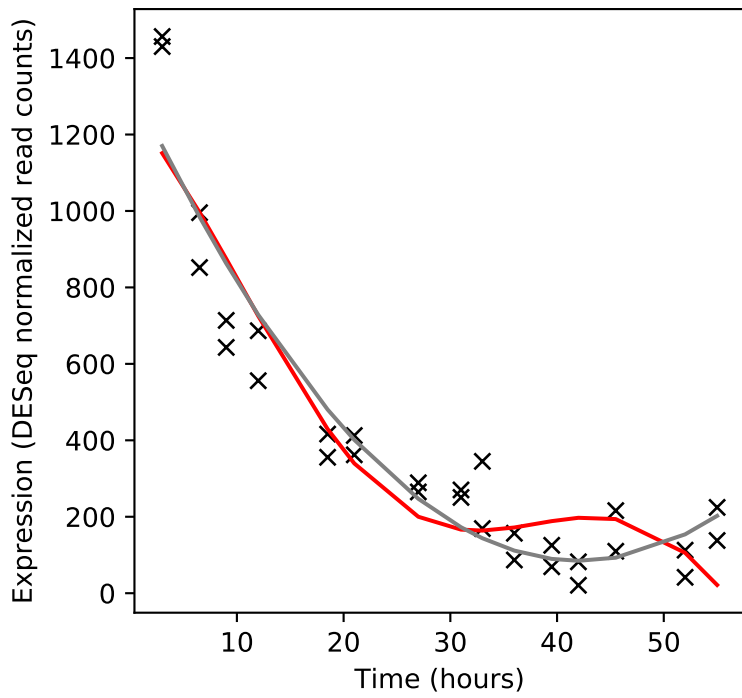
Rv3222c/-



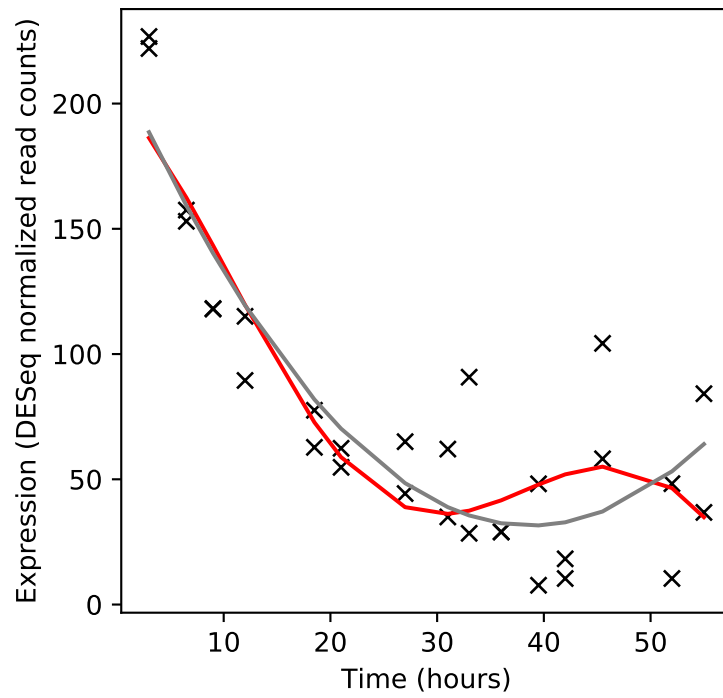
Rv3223c/sigH



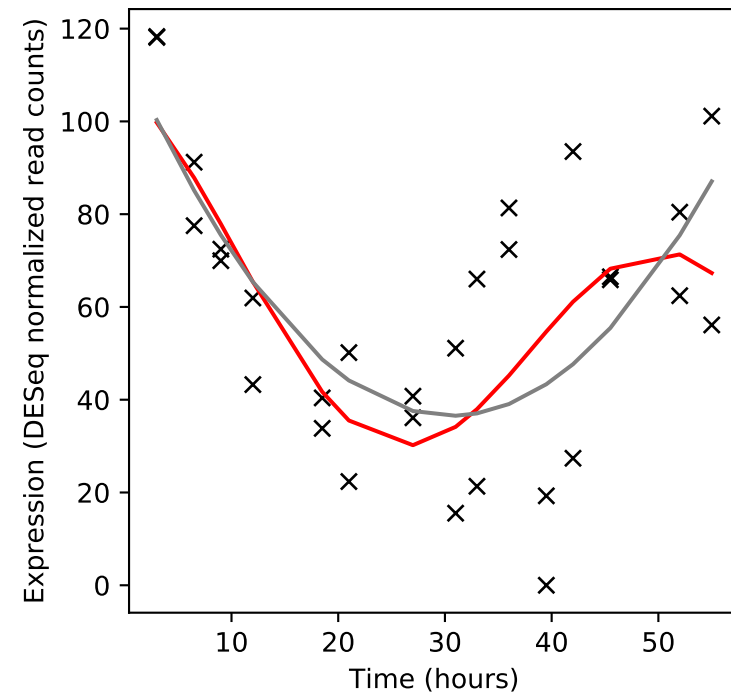
Rv3224/-



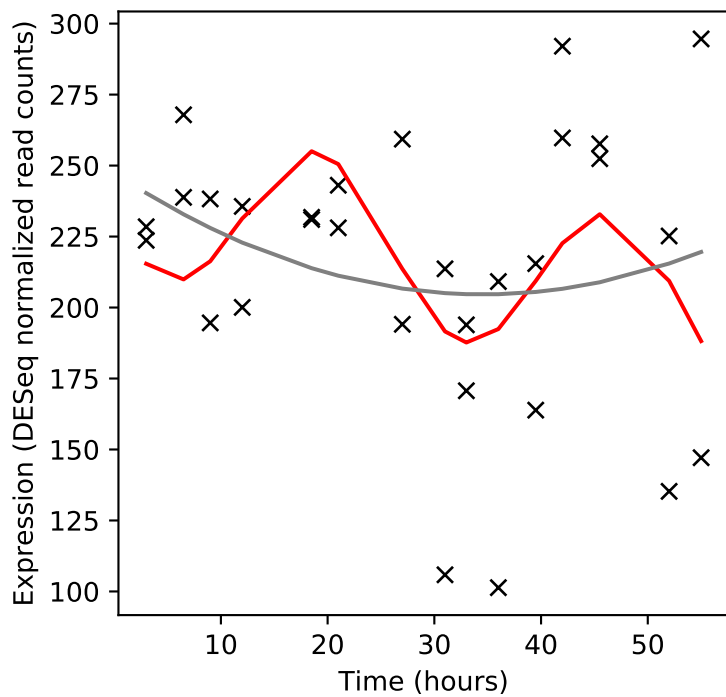
Rv3224A/-



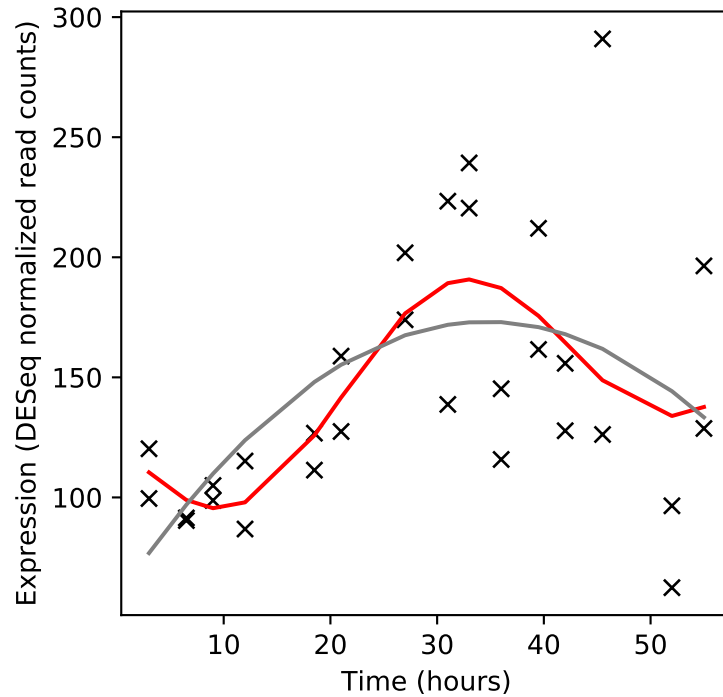
Rv3224B/-



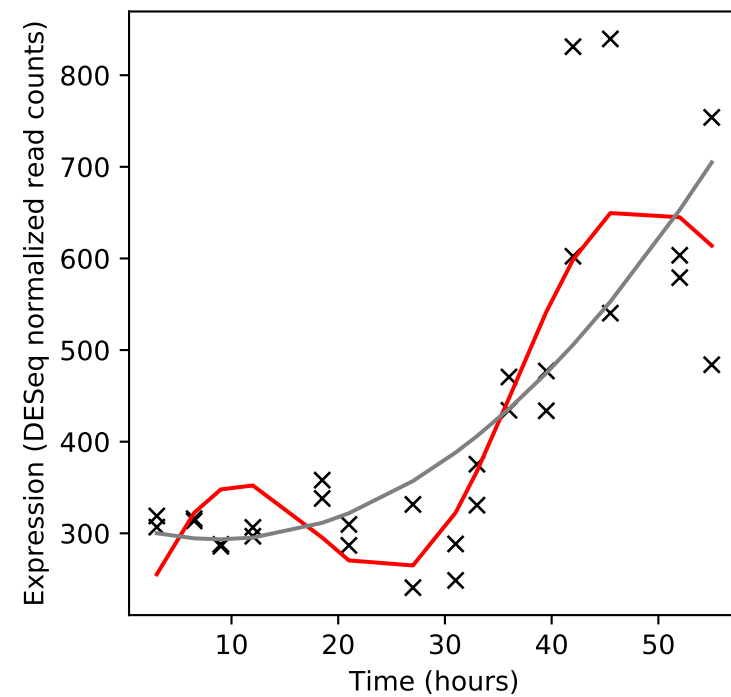
Rv3225c/-



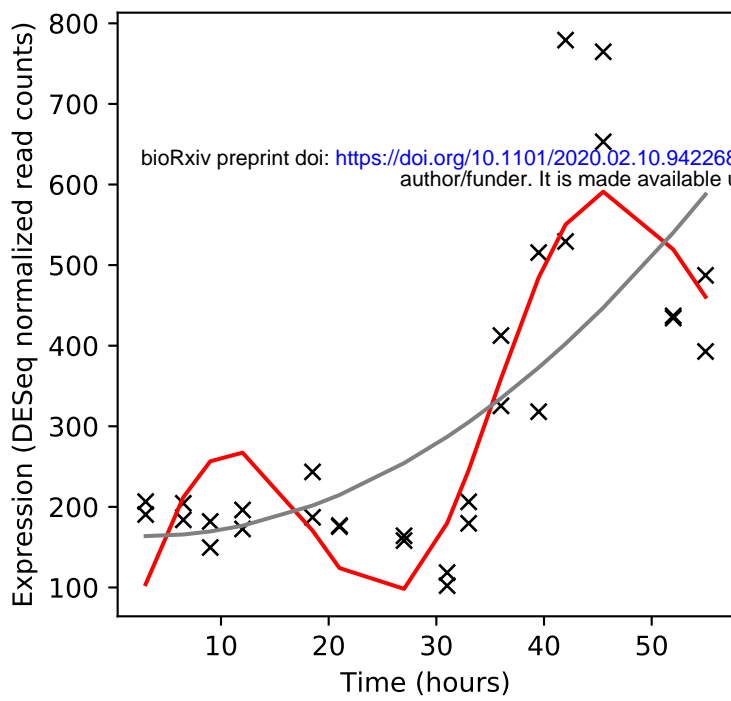
Rv3226c/-



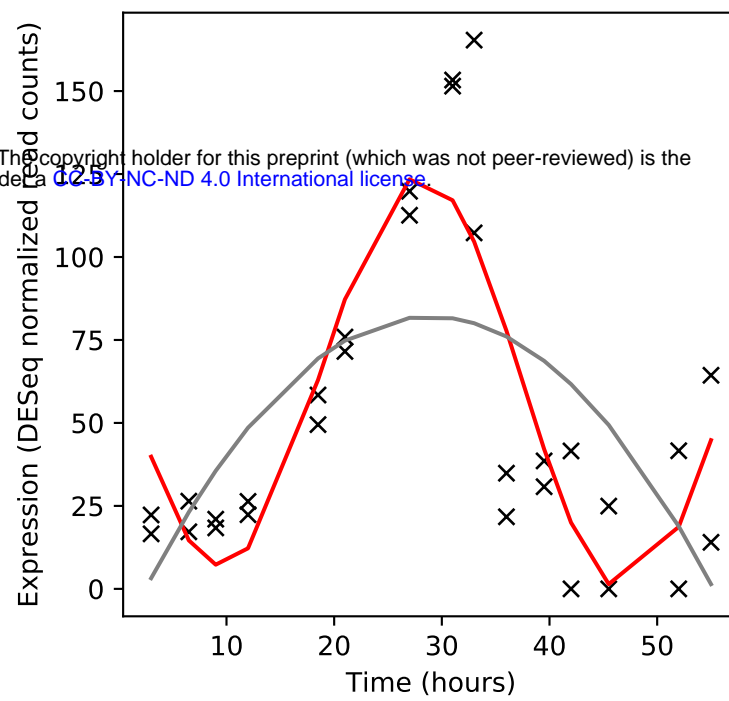
Rv3227/aroA



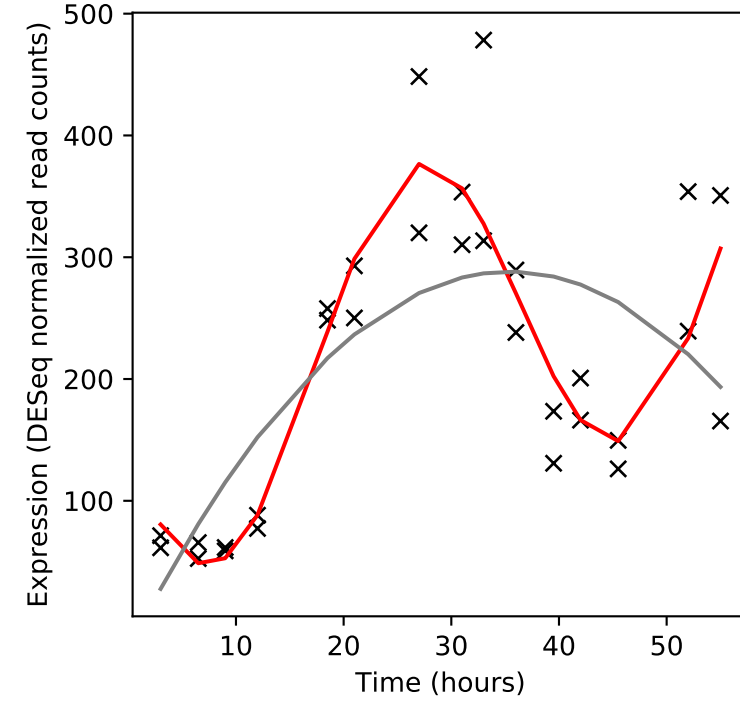
Rv3228/-



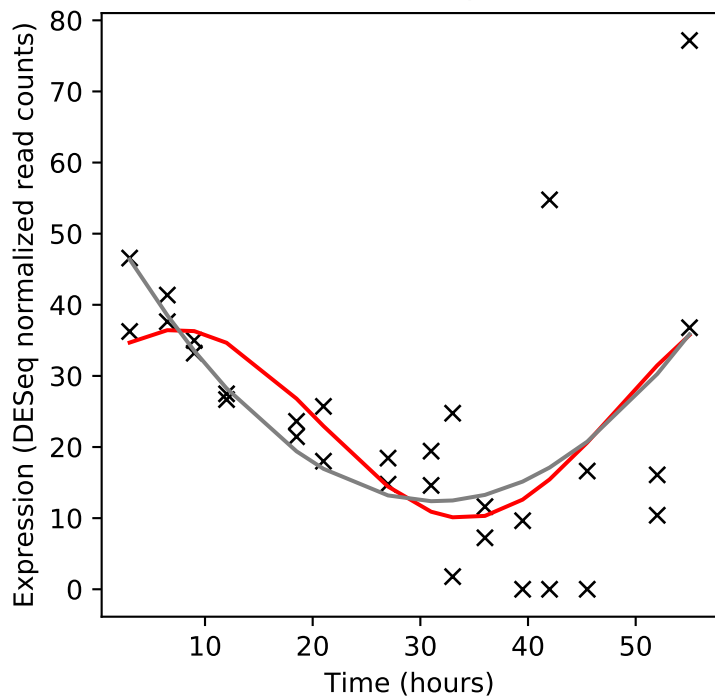
Rv3229c/desA3



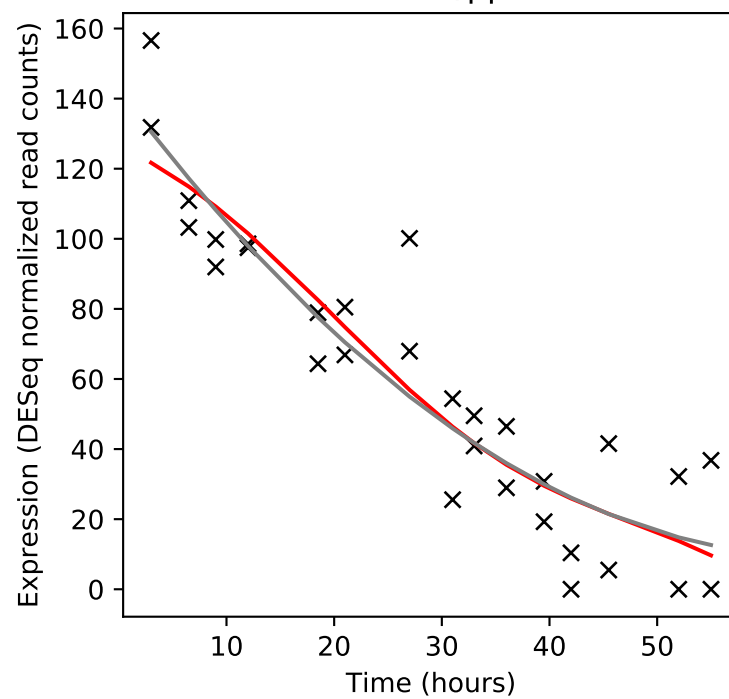
Rv3230c/-



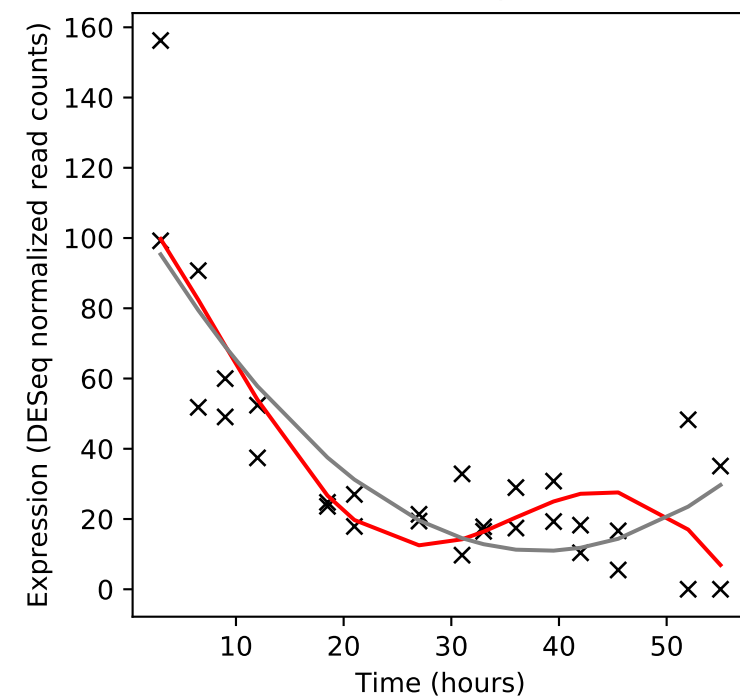
Rv3231c/-



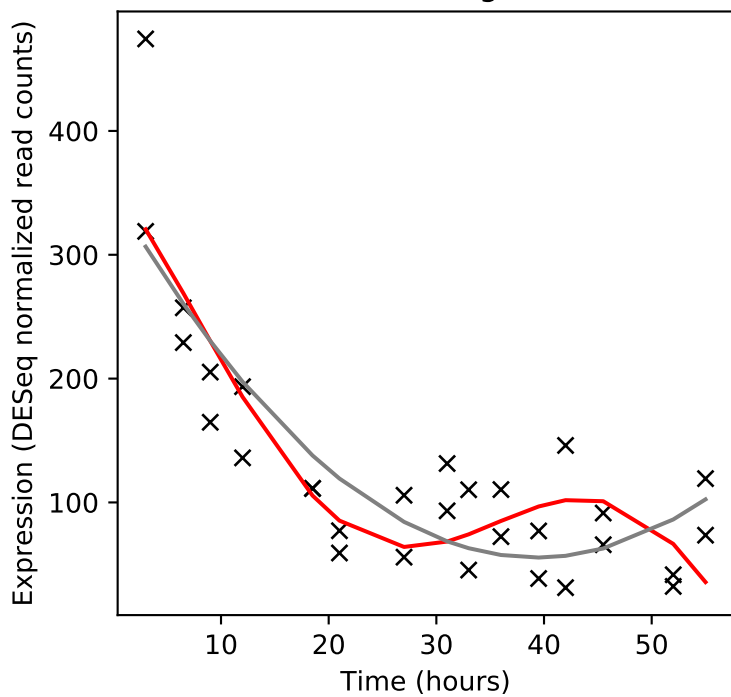
Rv3232c/ppk2



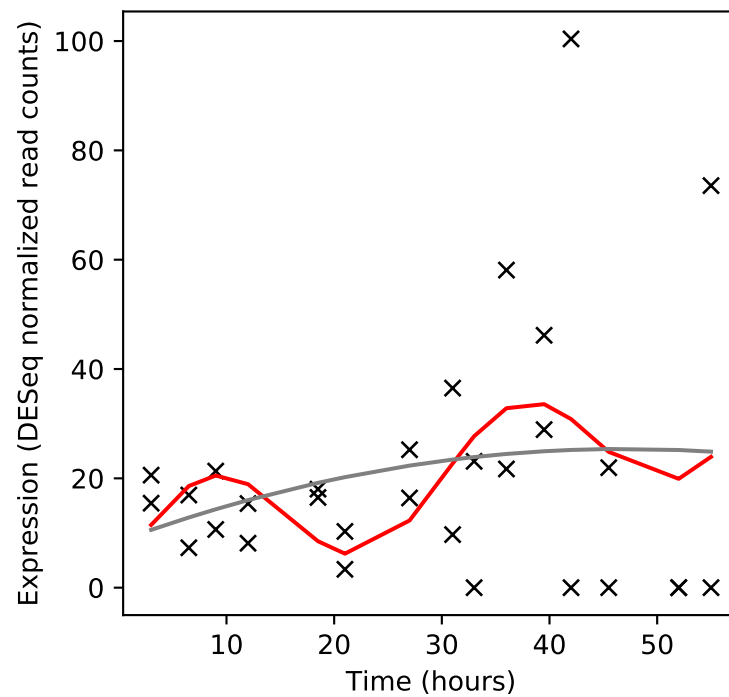
Rv3233c/-



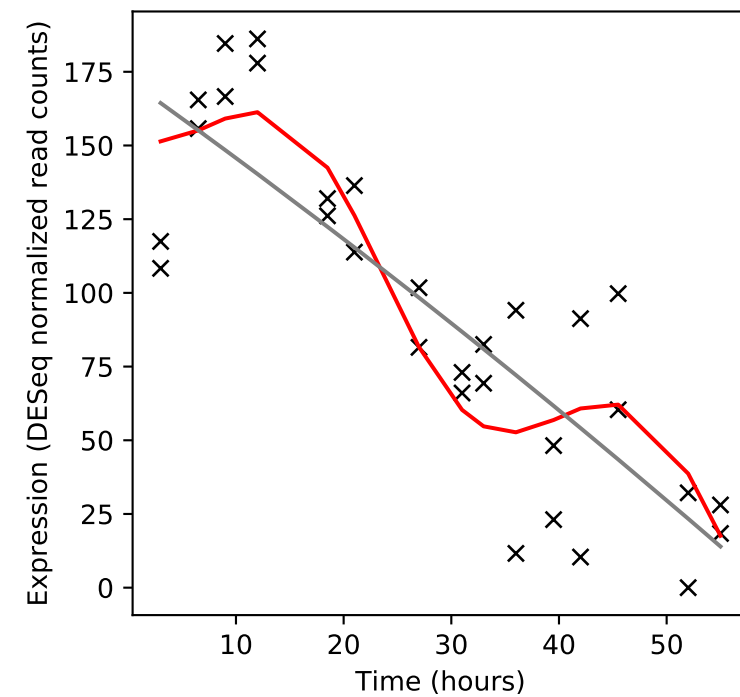
Rv3234c/tgs3



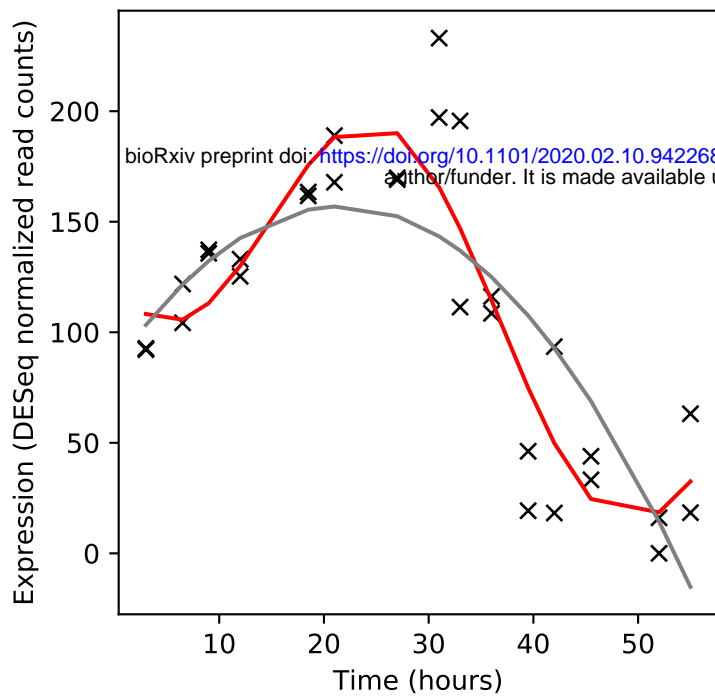
Rv3235/-



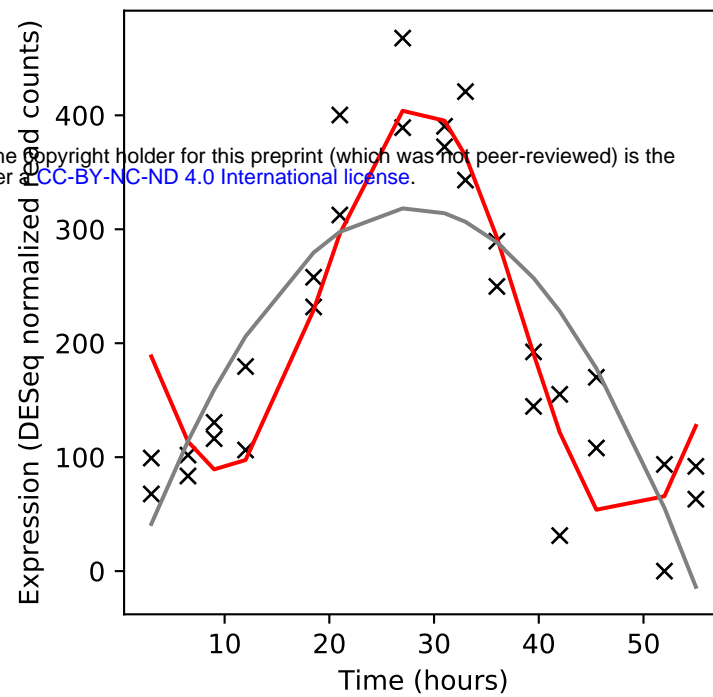
Rv3236c/-



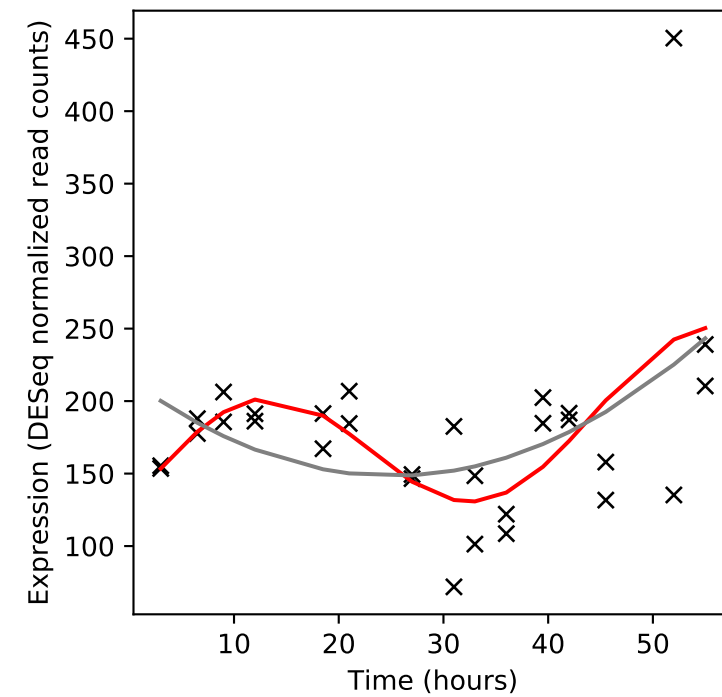
Rv3237c/-



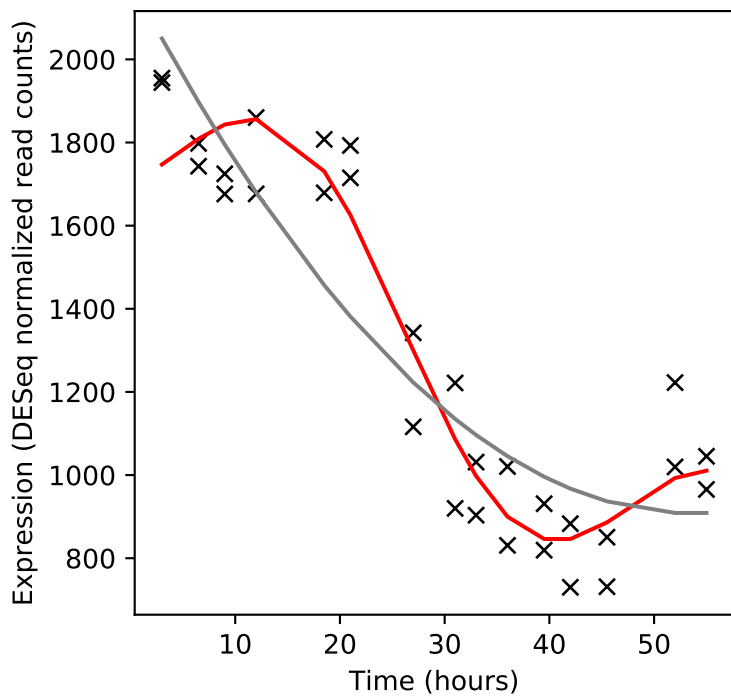
Rv3238c/-



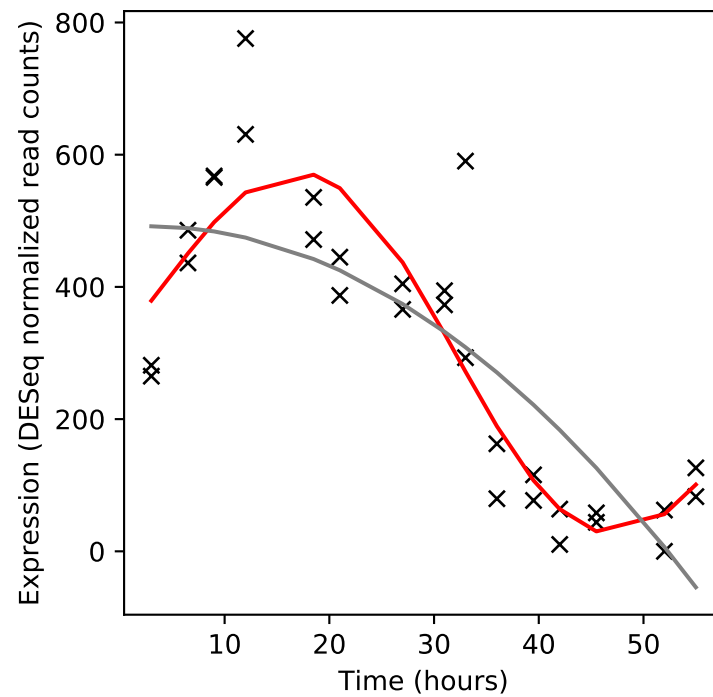
Rv3239c/-



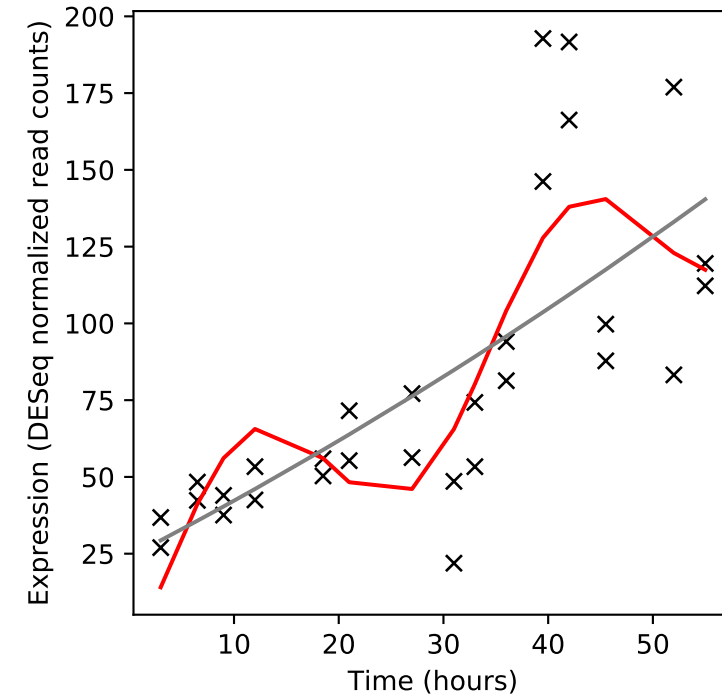
Rv3240c/secA1



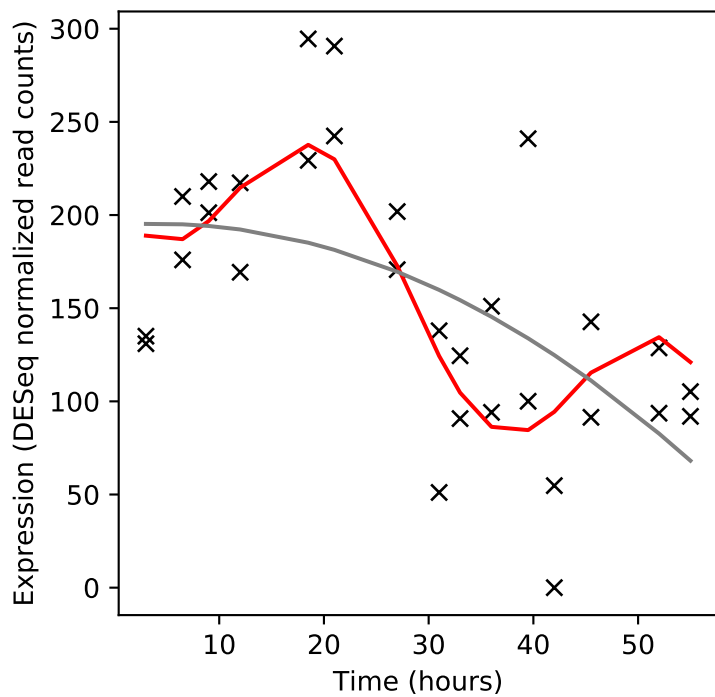
Rv3241c/-



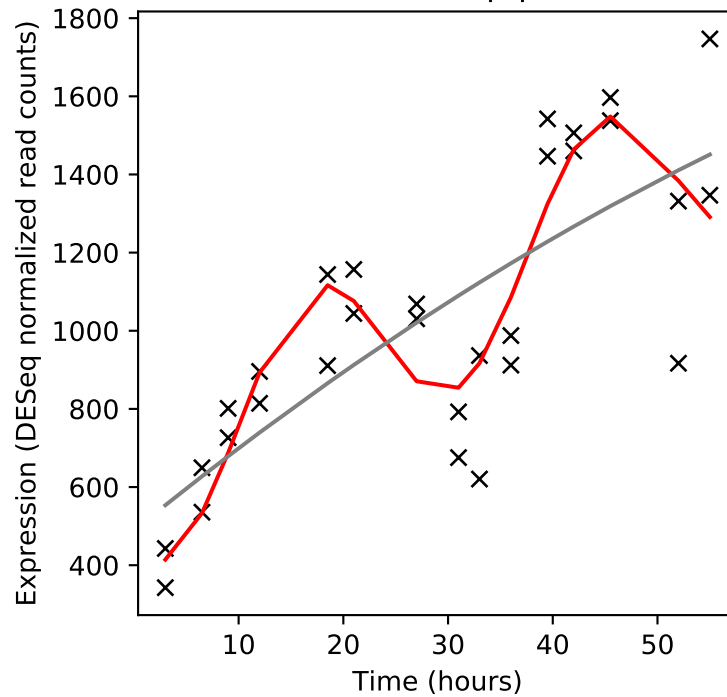
Rv3242c/-



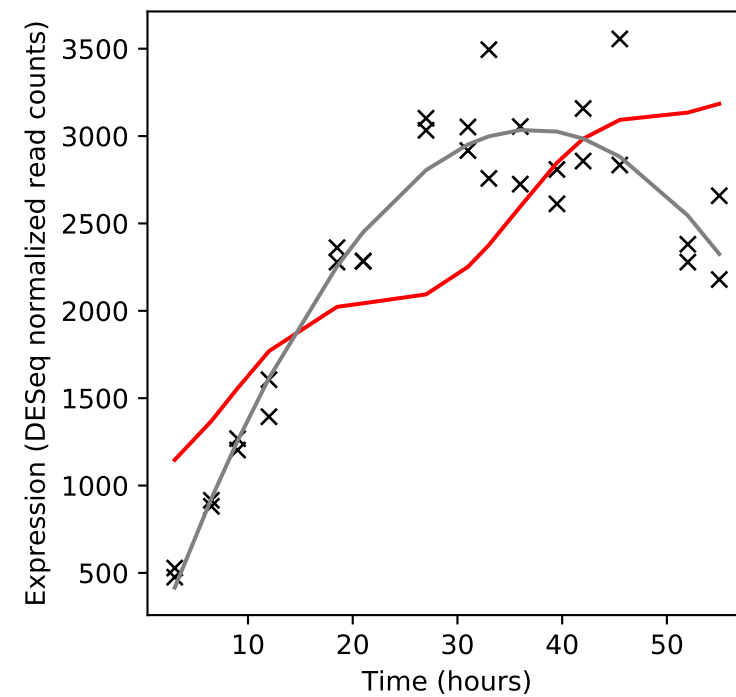
Rv3243c/-



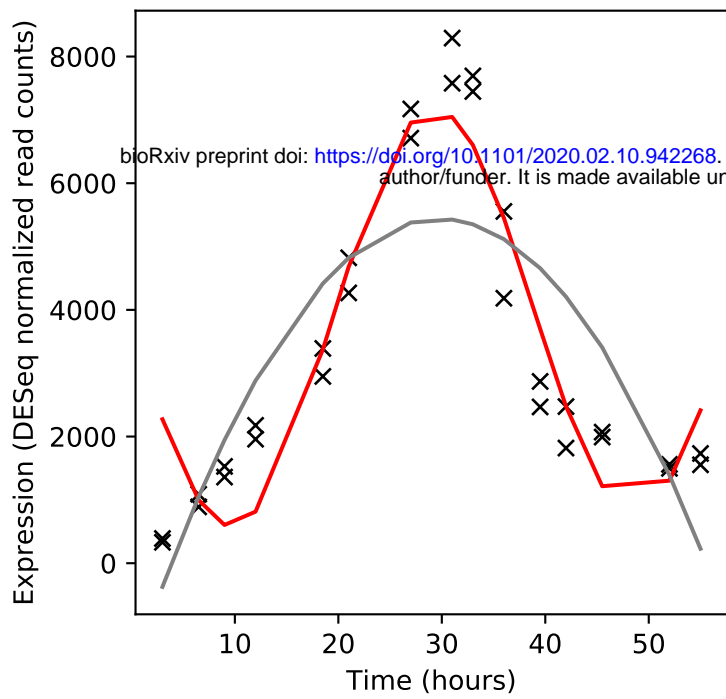
Rv3244c/lpqB



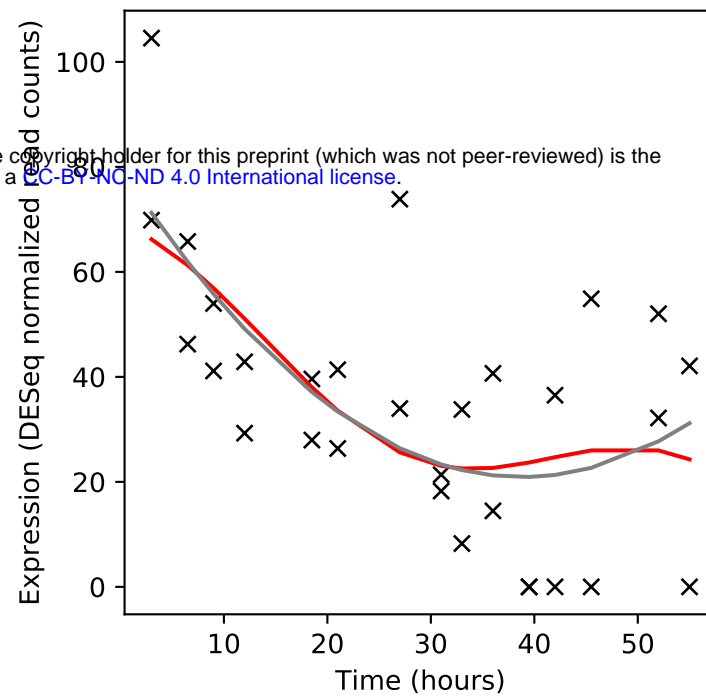
Rv3245c/mtrB



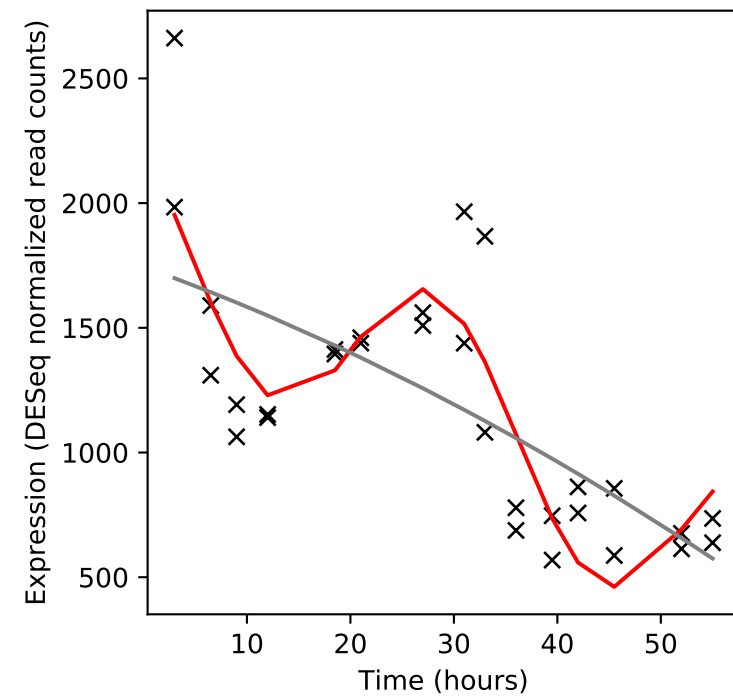
Rv3246c/mtrA



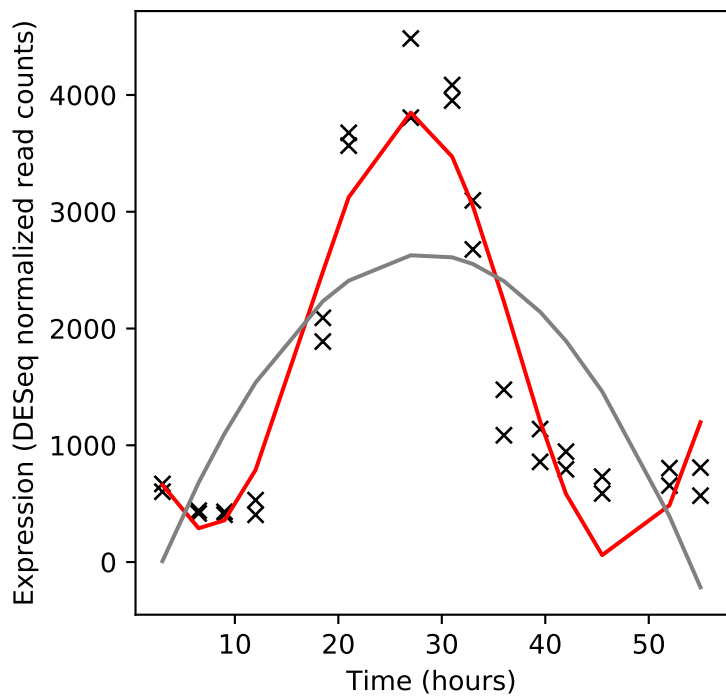
Rv3247c/tmk



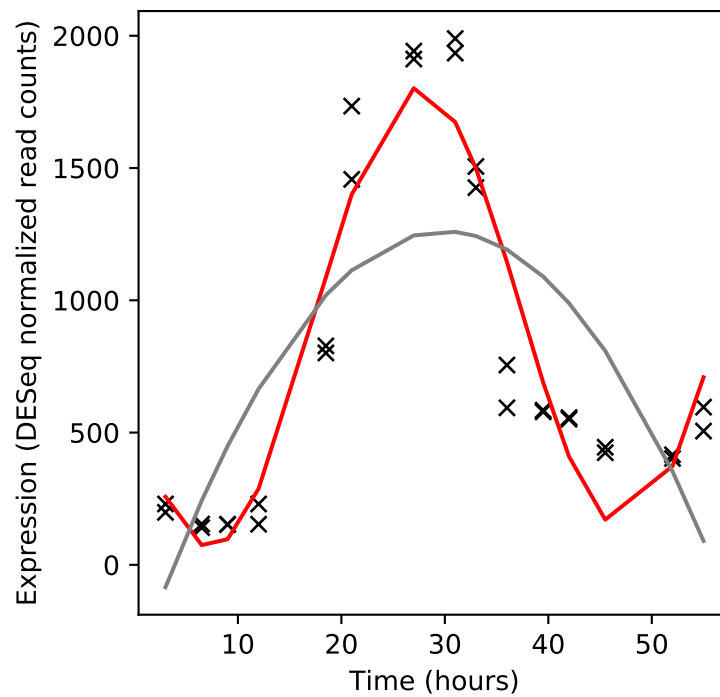
Rv3248c/sahH



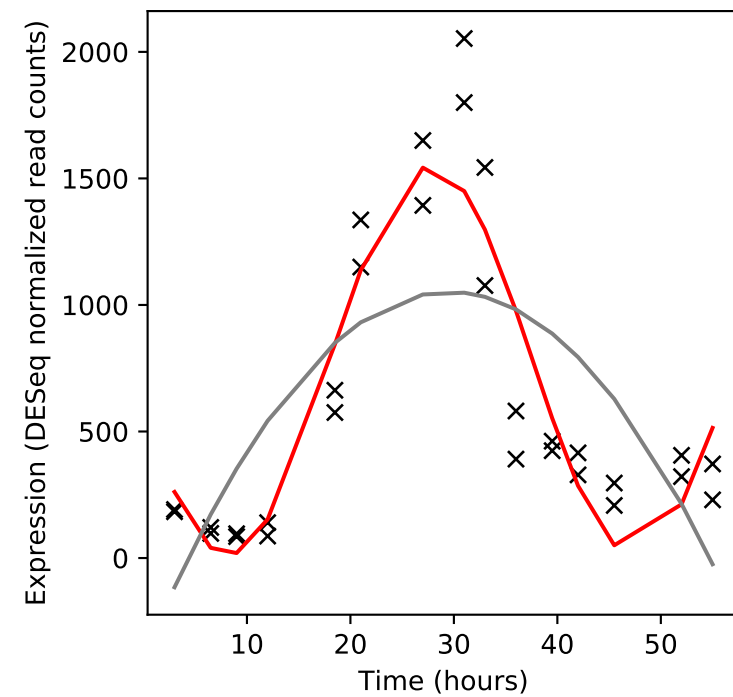
Rv3249c/-



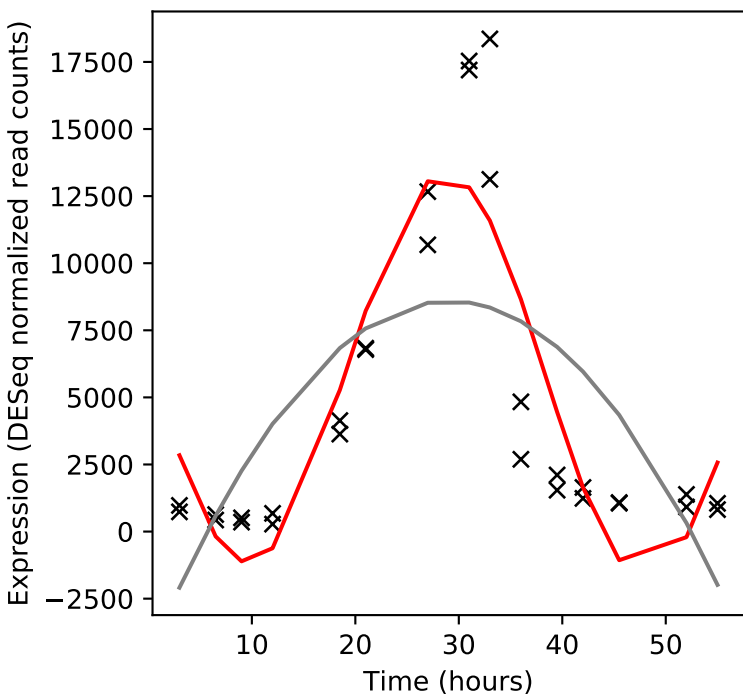
Rv3250c/rubB



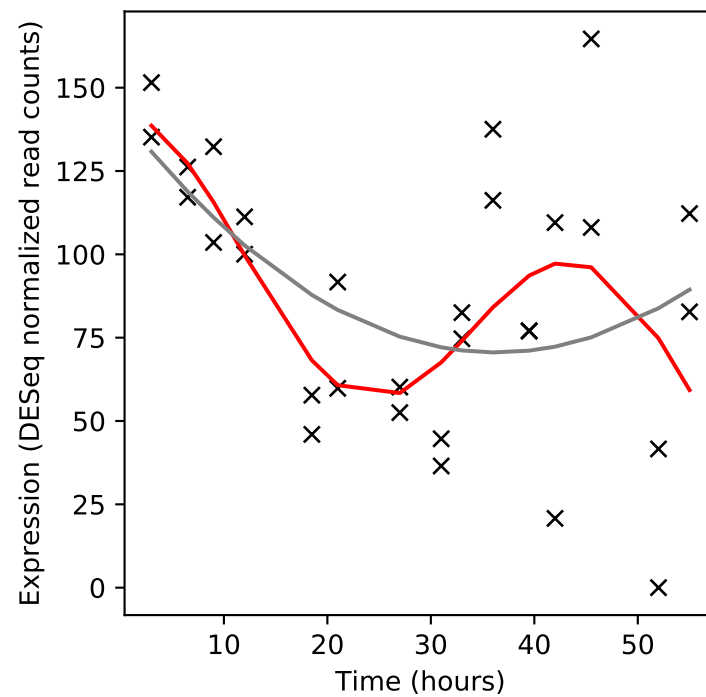
Rv3251c/rubA



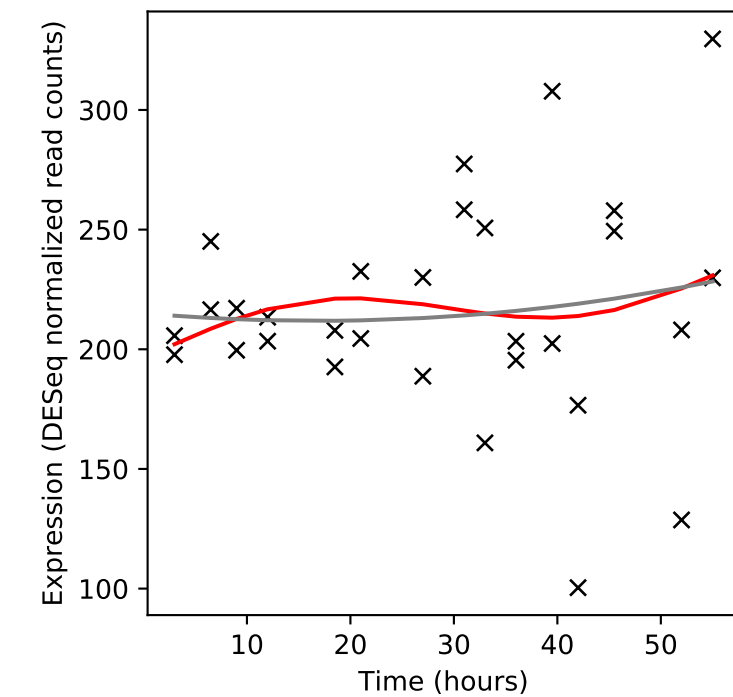
Rv3252c/alkB



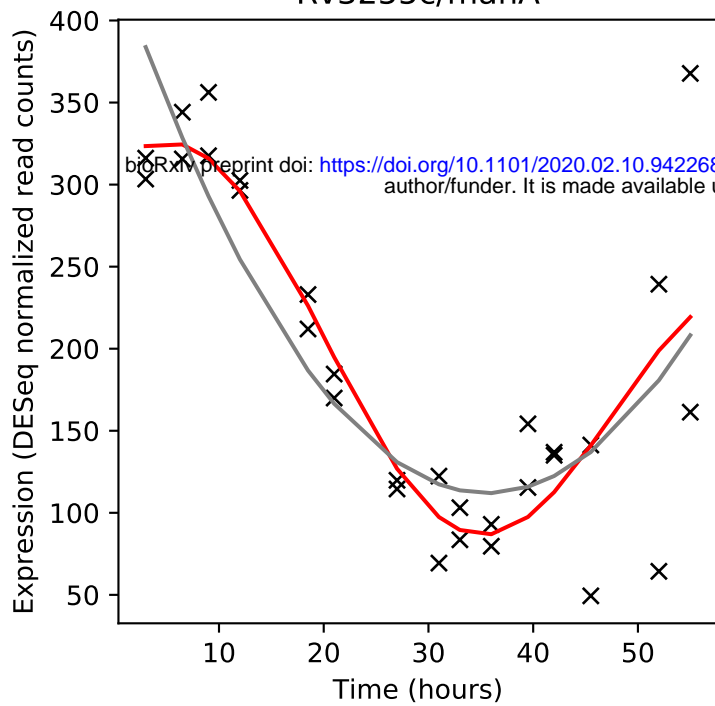
Rv3253c/-



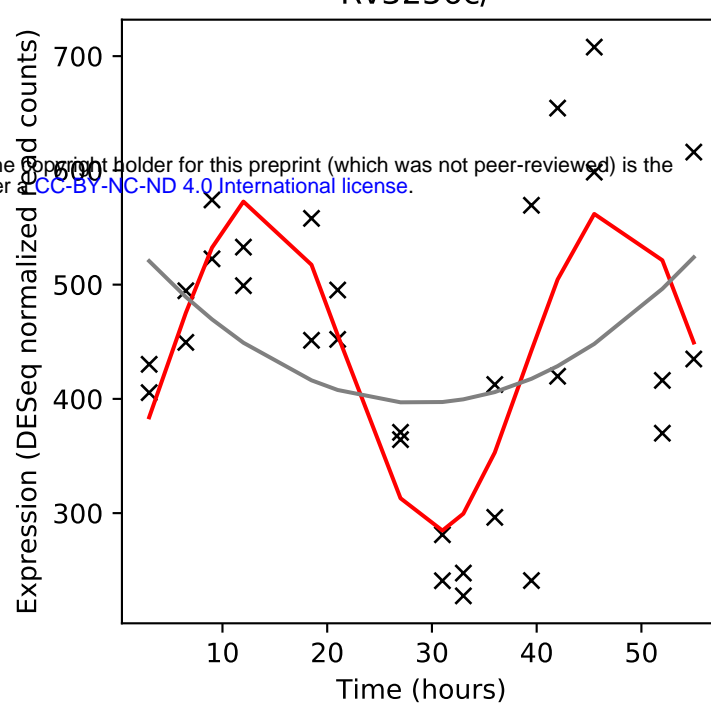
Rv3254c/-



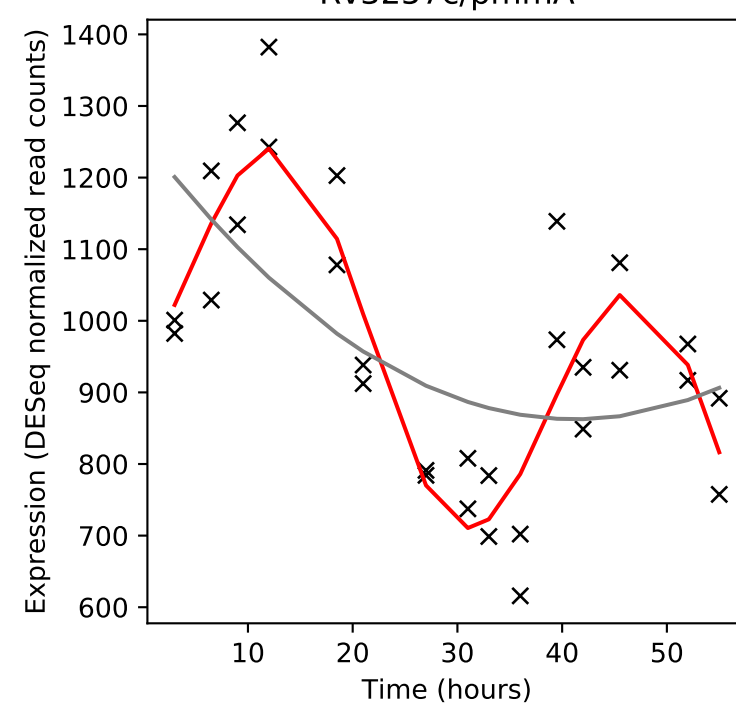
Rv3255c/mana



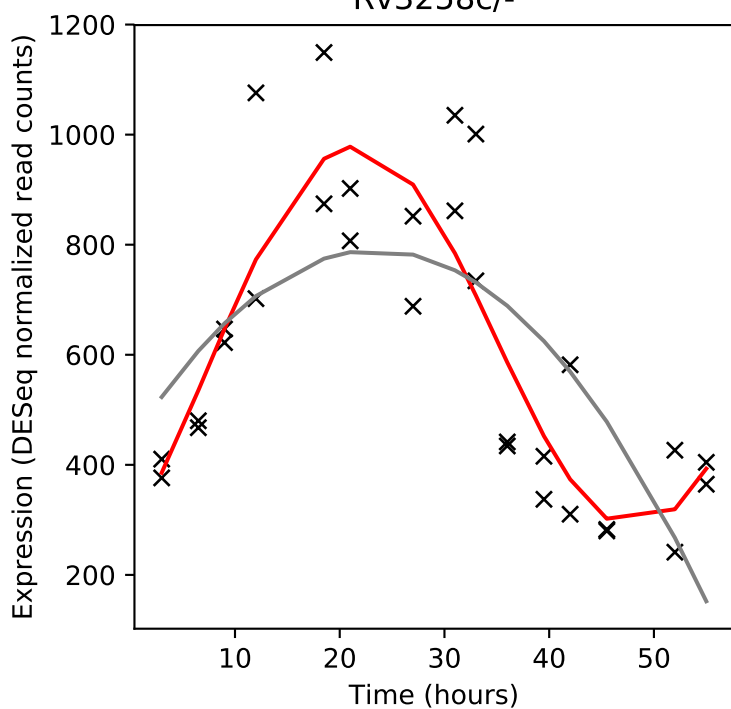
Rv3256c/-



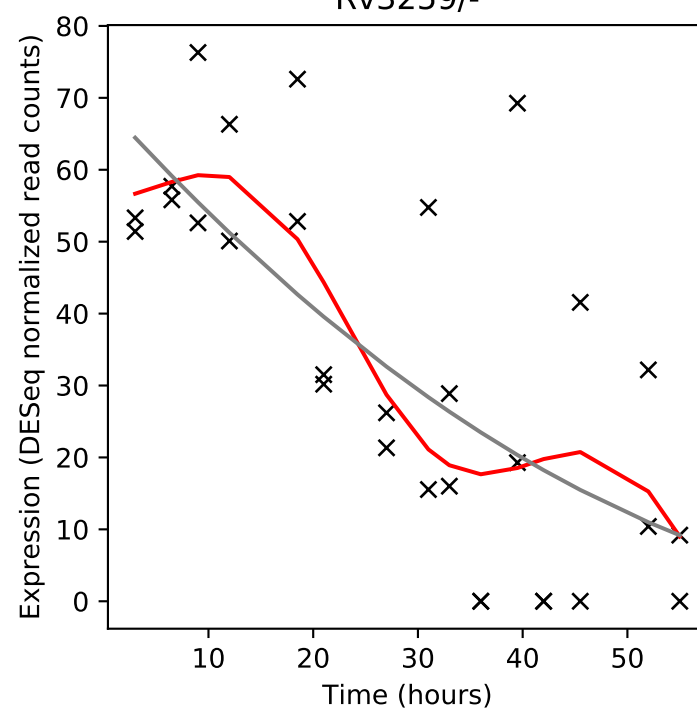
Rv3257c/pmmA



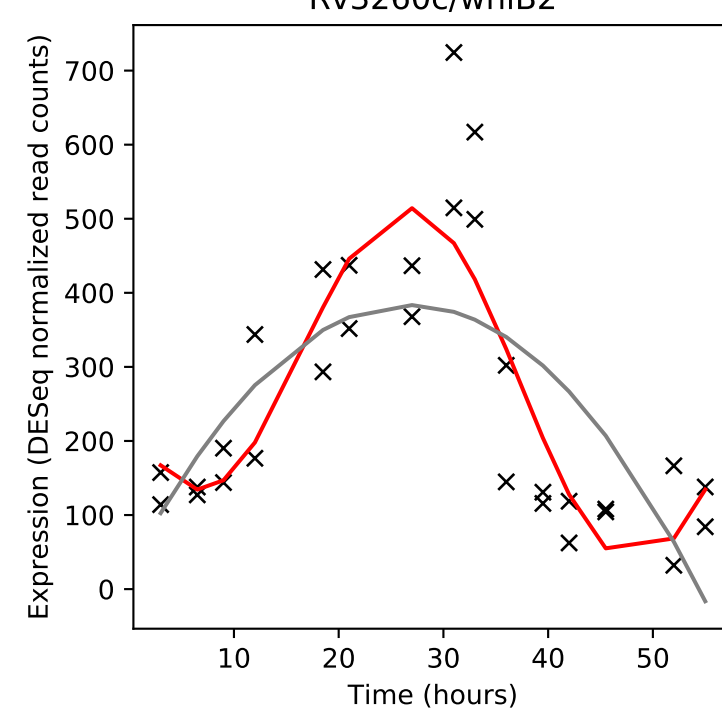
Rv3258c/-



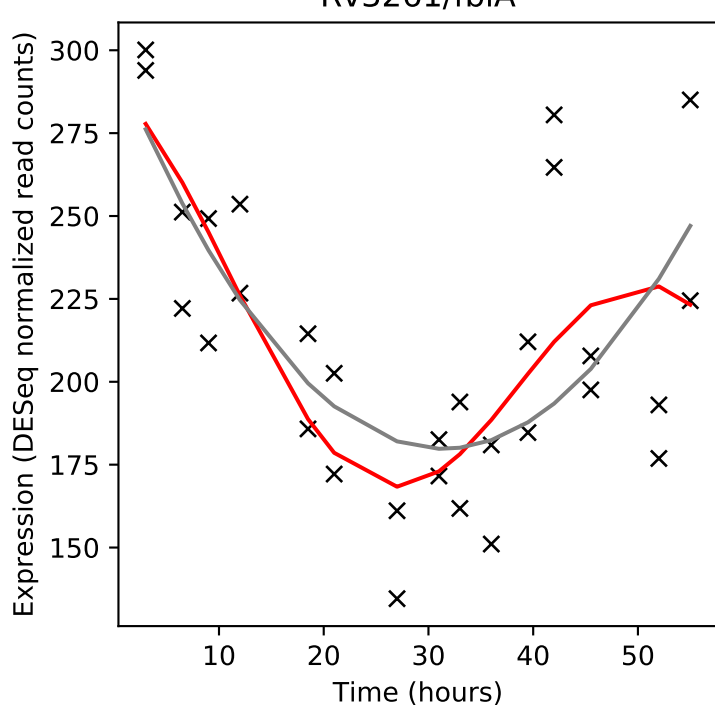
Rv3259/-



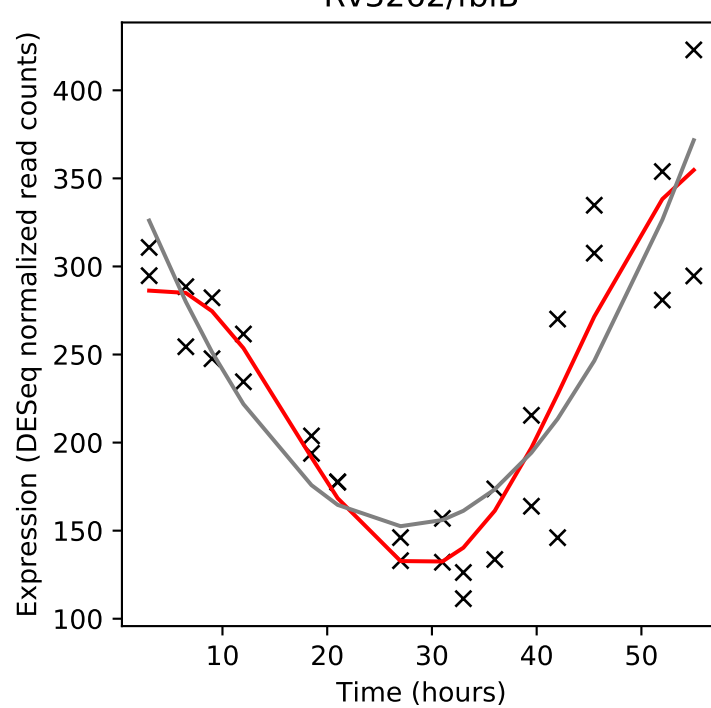
Rv3260c/whiB2



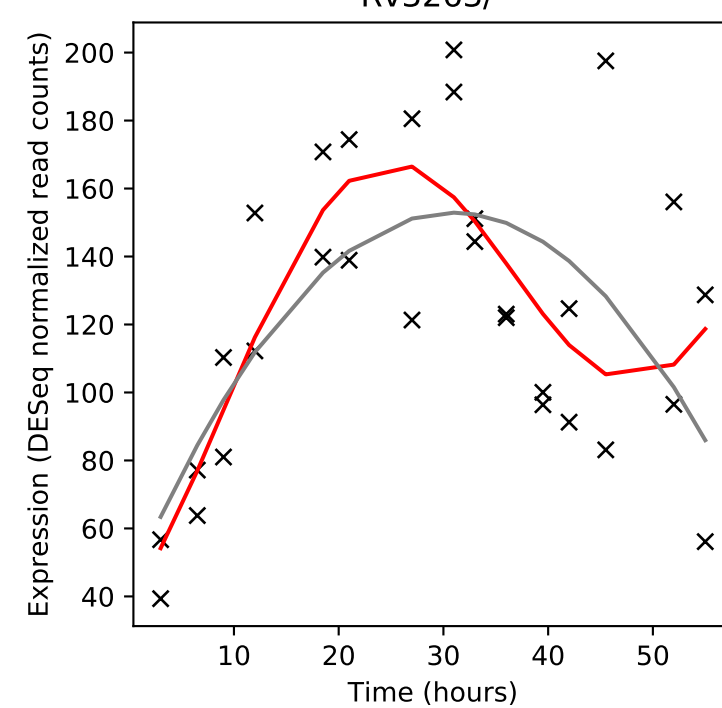
Rv3261/fbiA



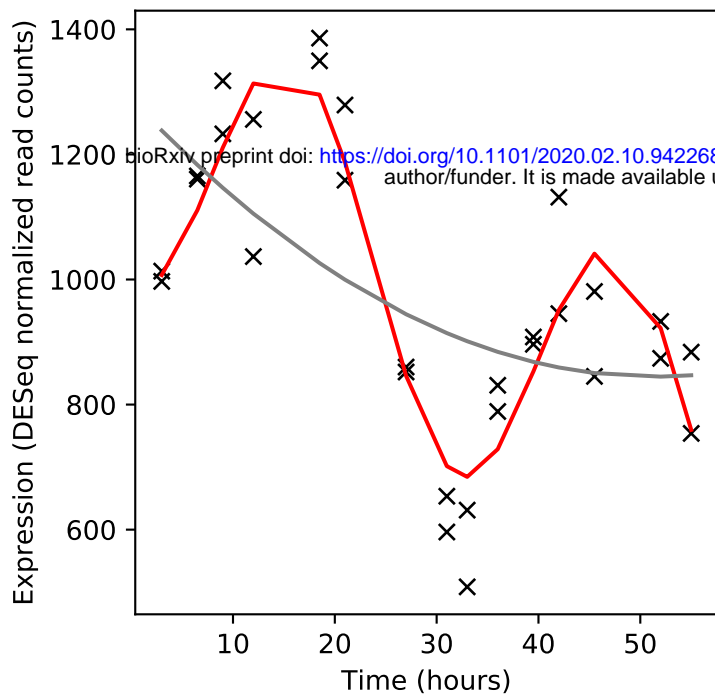
Rv3262/fbiB



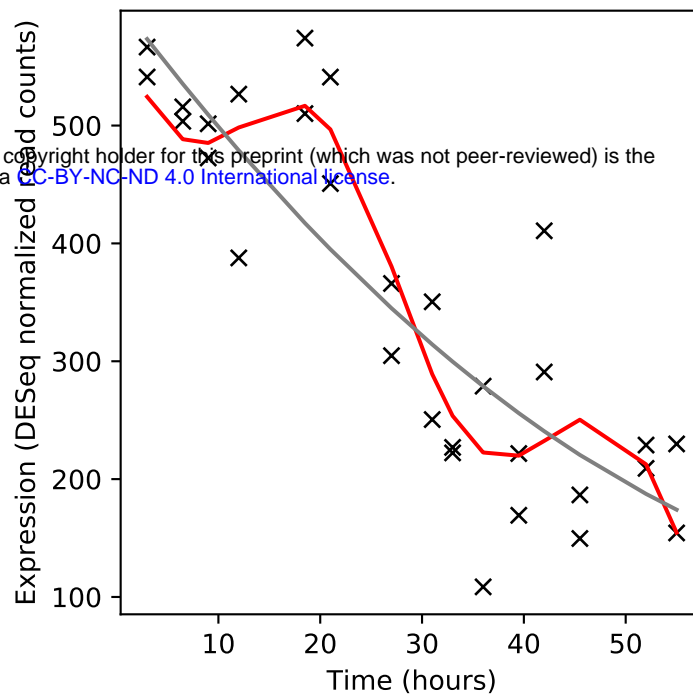
Rv3263/-



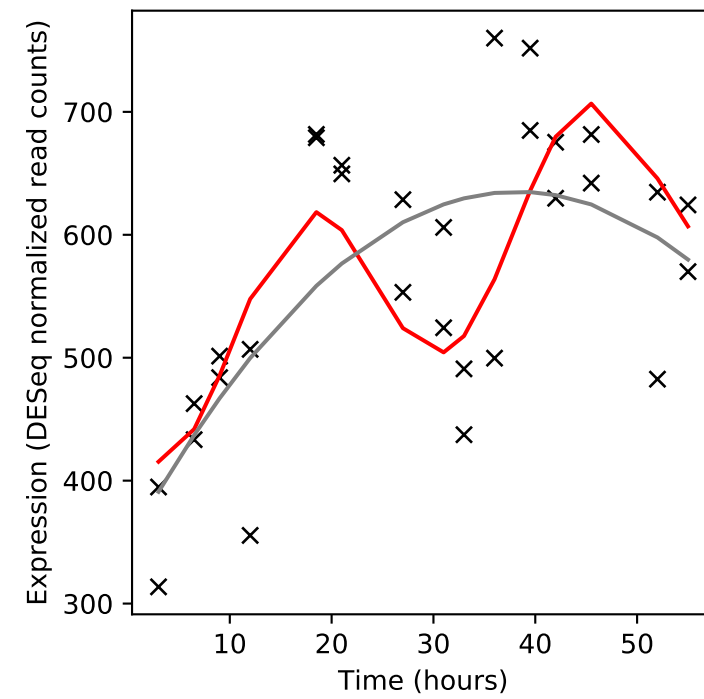
Rv3264c/manB



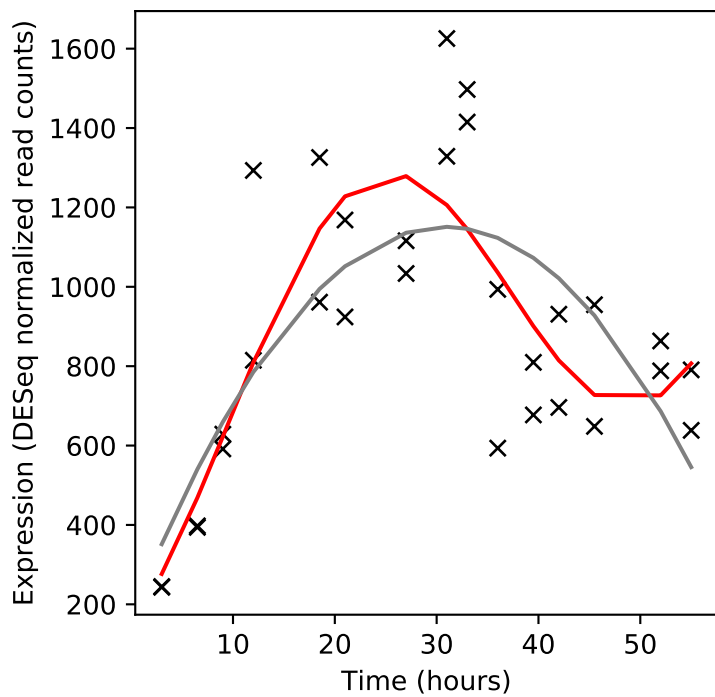
Rv3265c/wbbL1



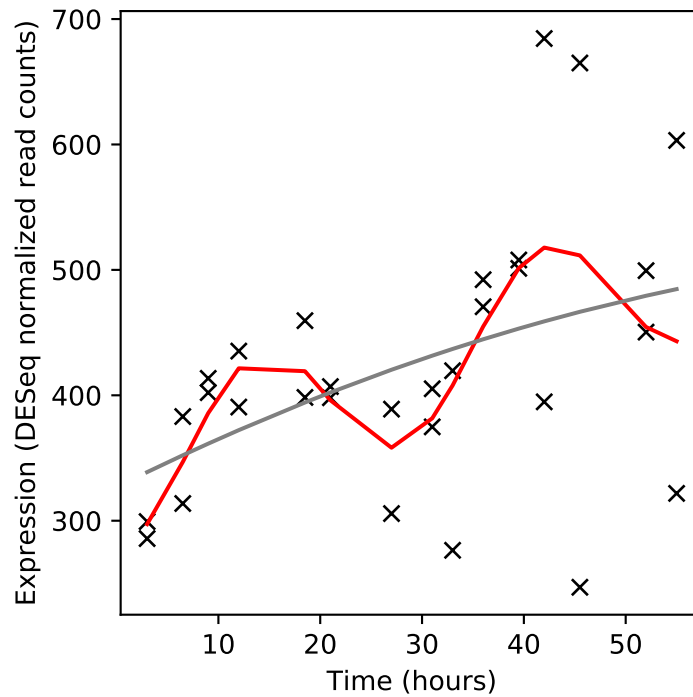
Rv3266c/rmlD



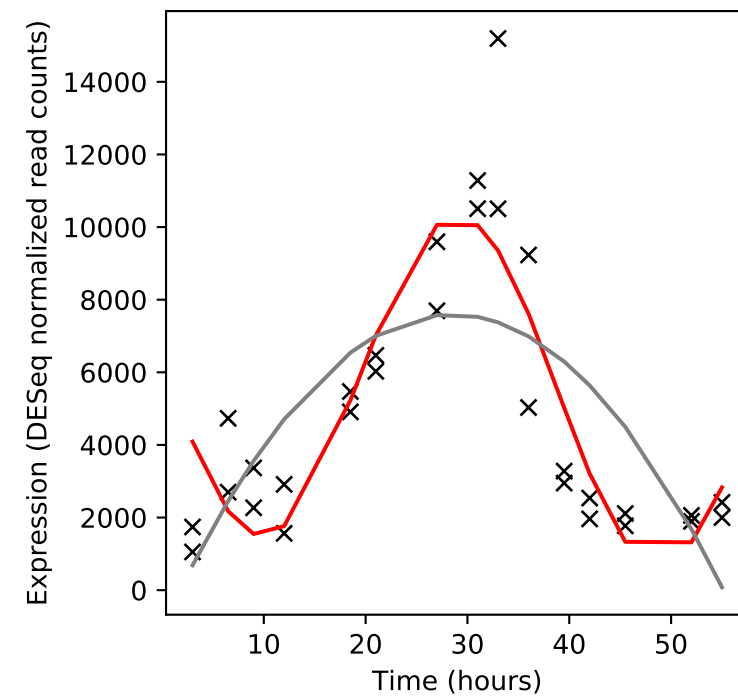
Rv3267/-



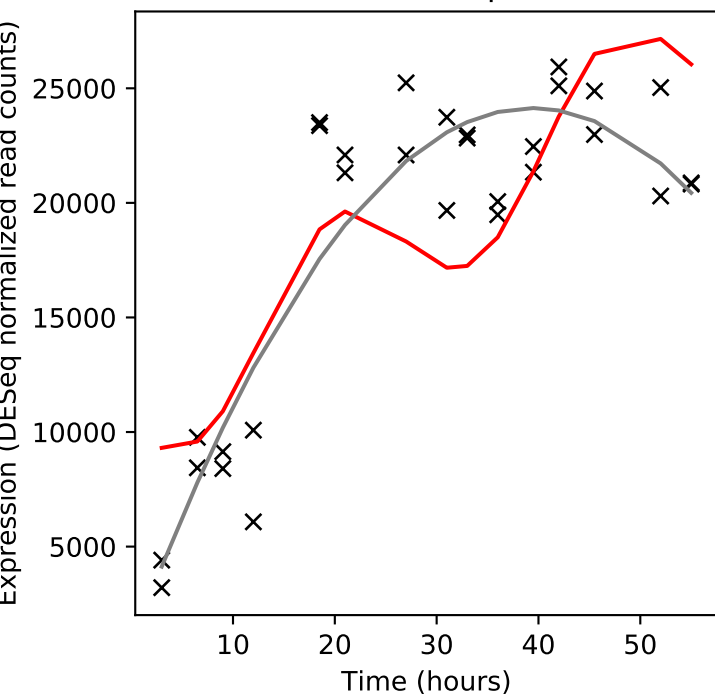
Rv3268/-



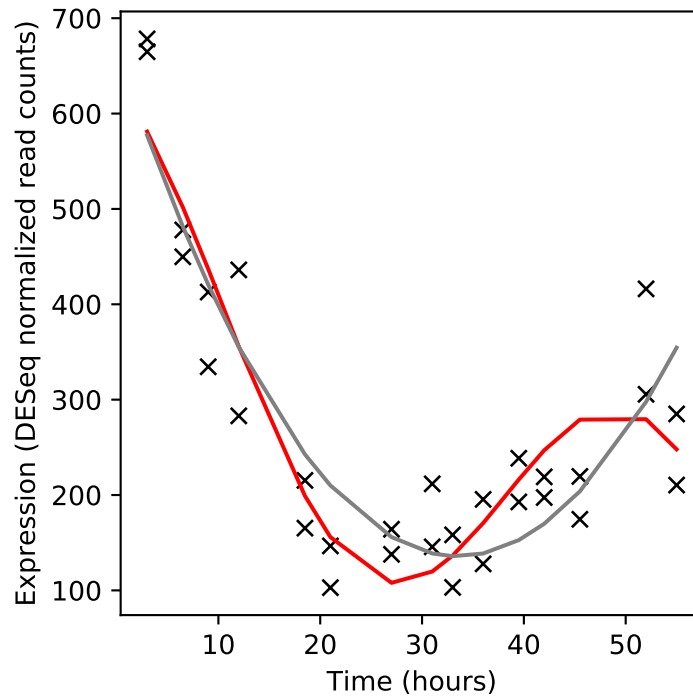
Rv3269/-



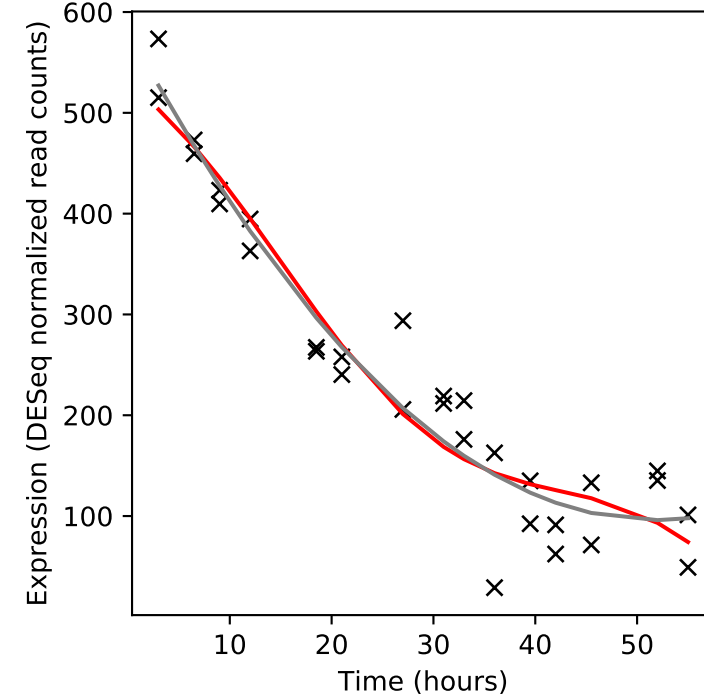
Rv3270/ctpC



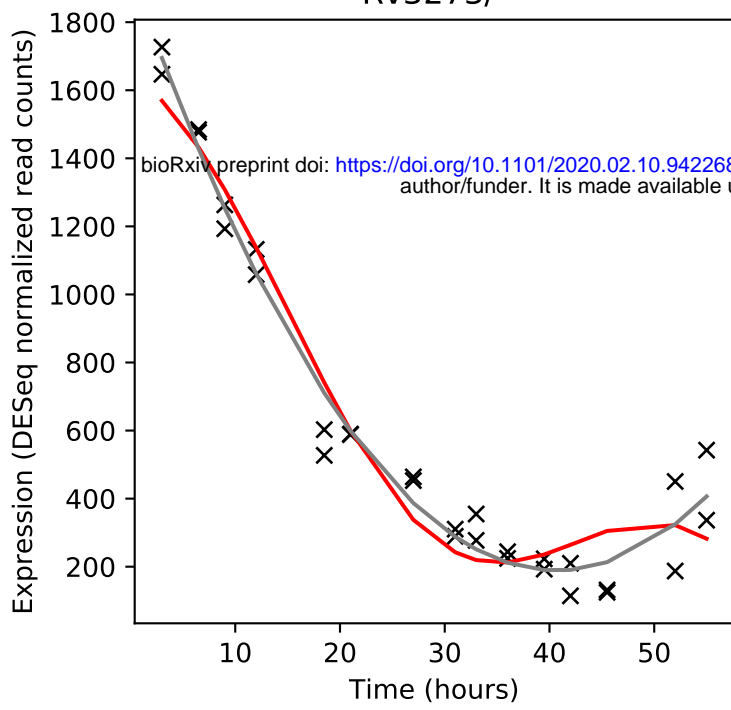
Rv3271c/-



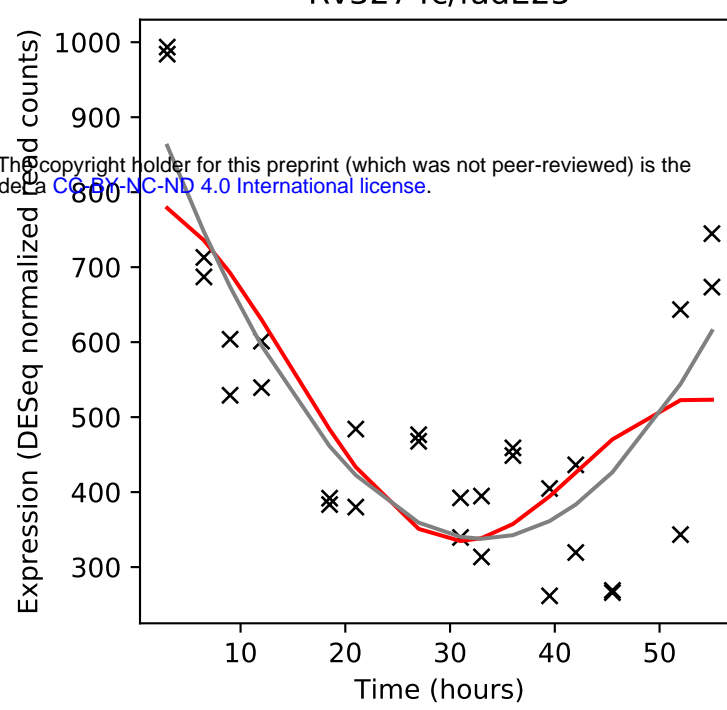
Rv3272/-



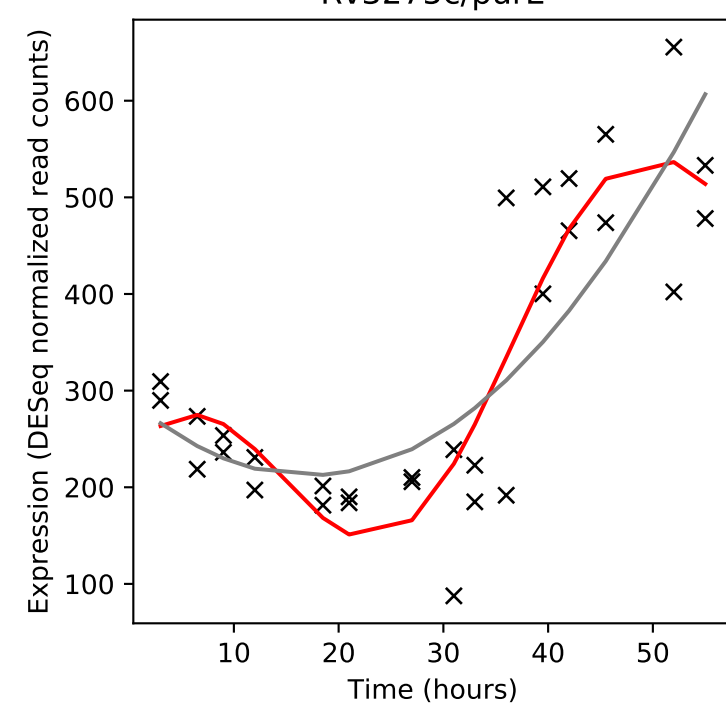
Rv3273/-



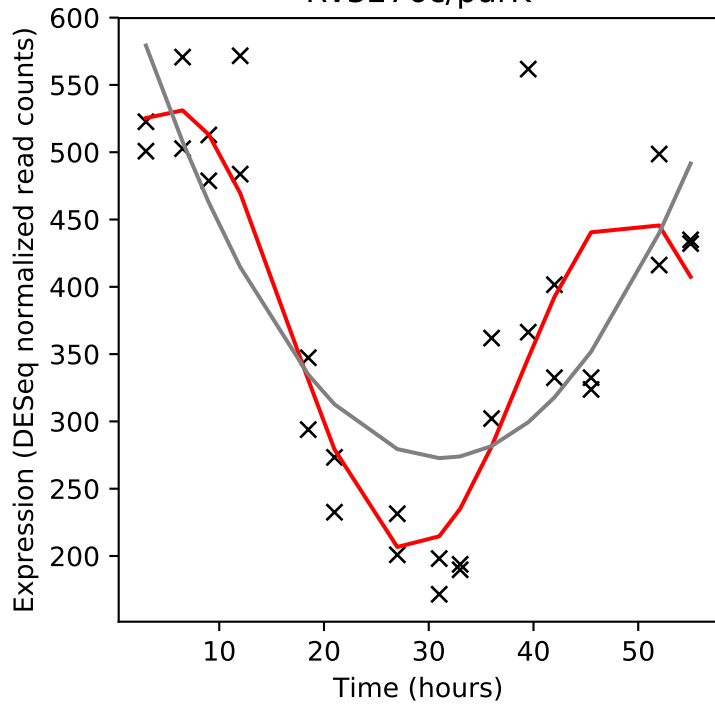
Rv3274c/fadE25



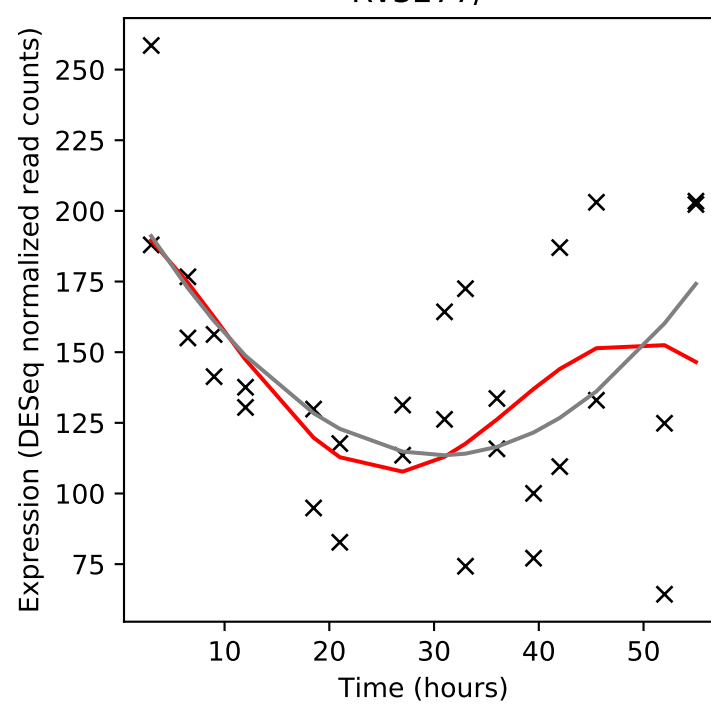
Rv3275c/purE



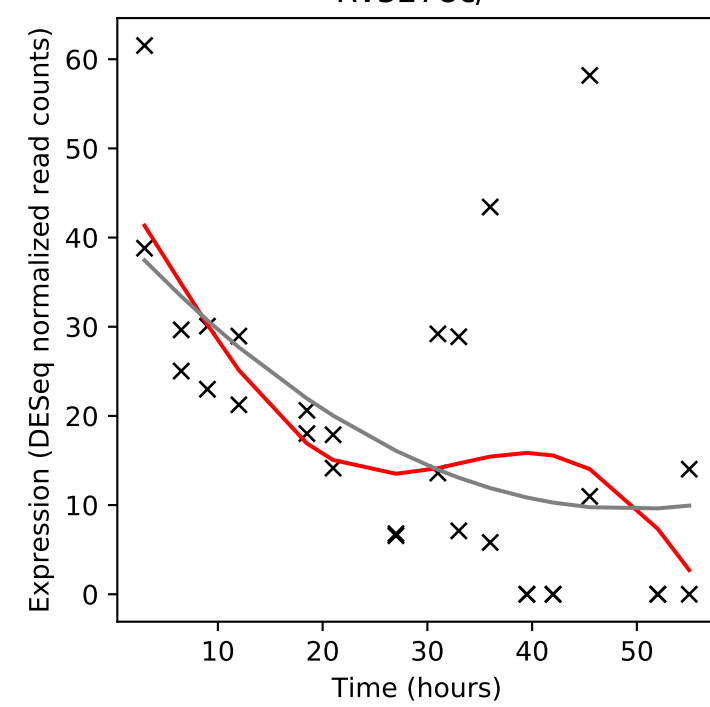
Rv3276c/purK



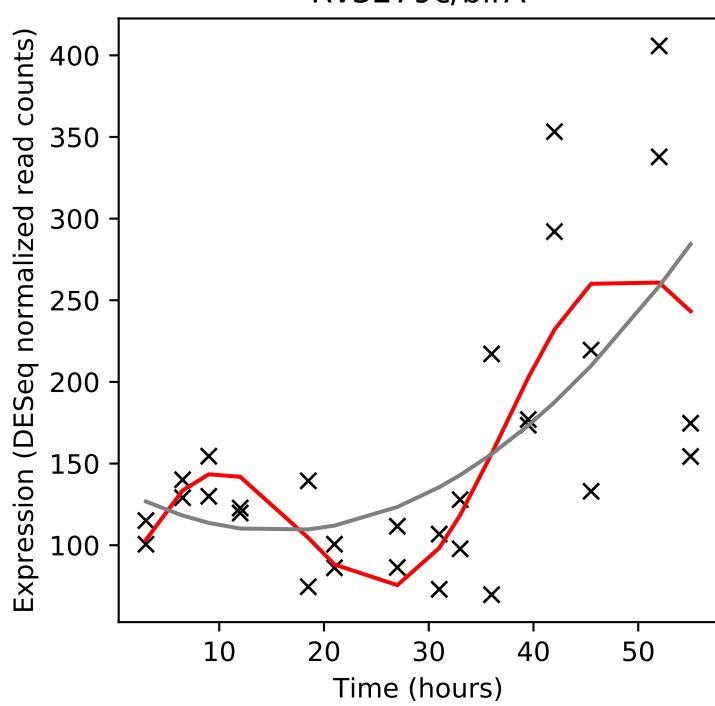
Rv3277/-



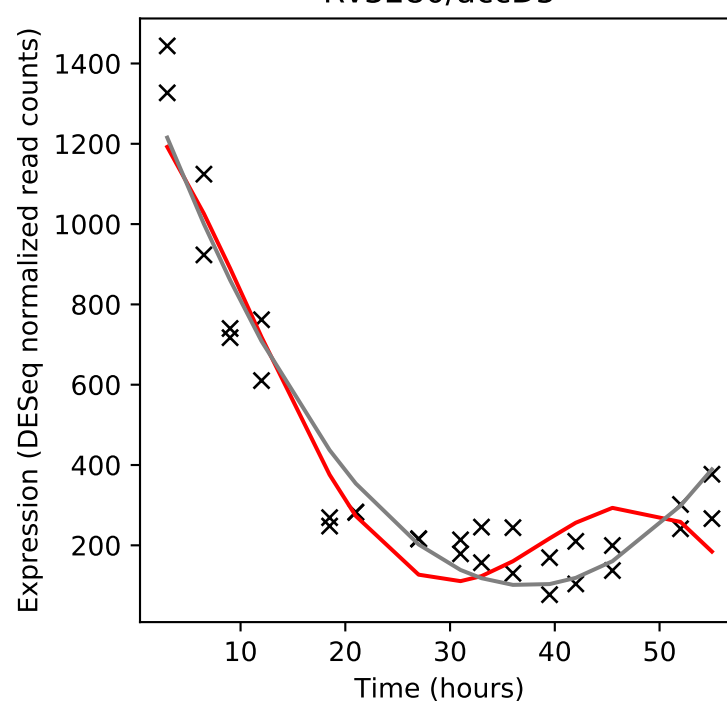
Rv3278c/-



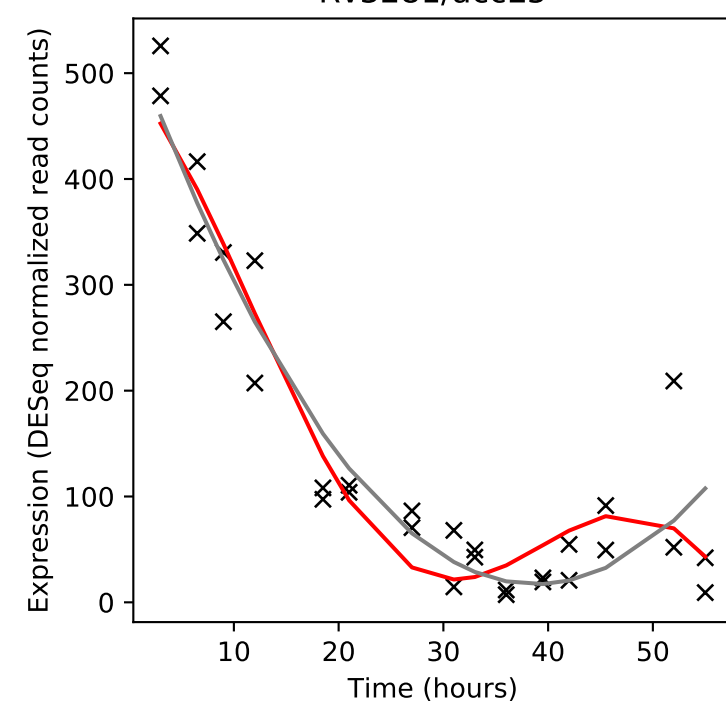
Rv3279c/birA



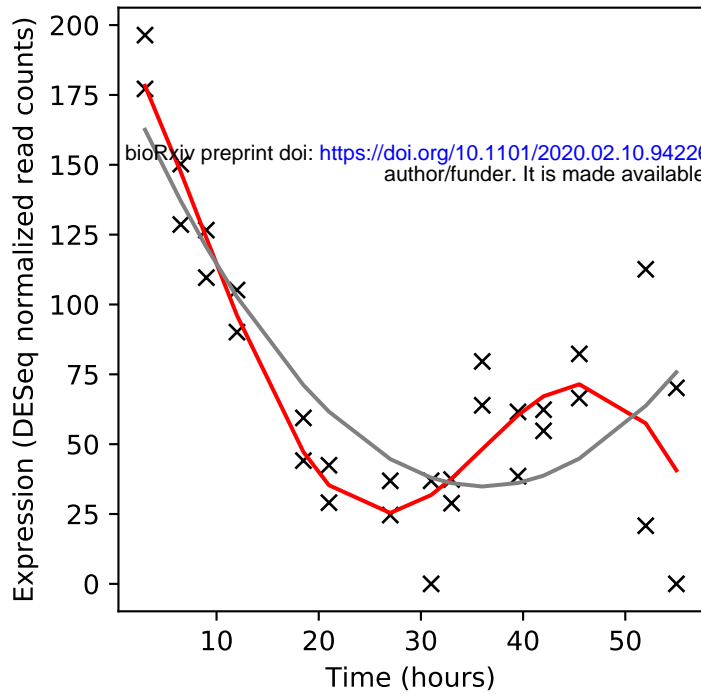
Rv3280/accD5



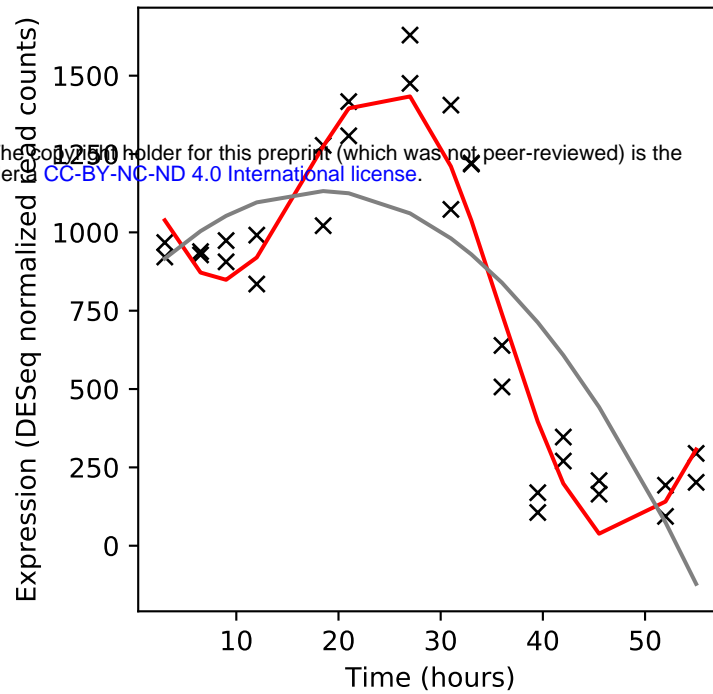
Rv3281/accE5



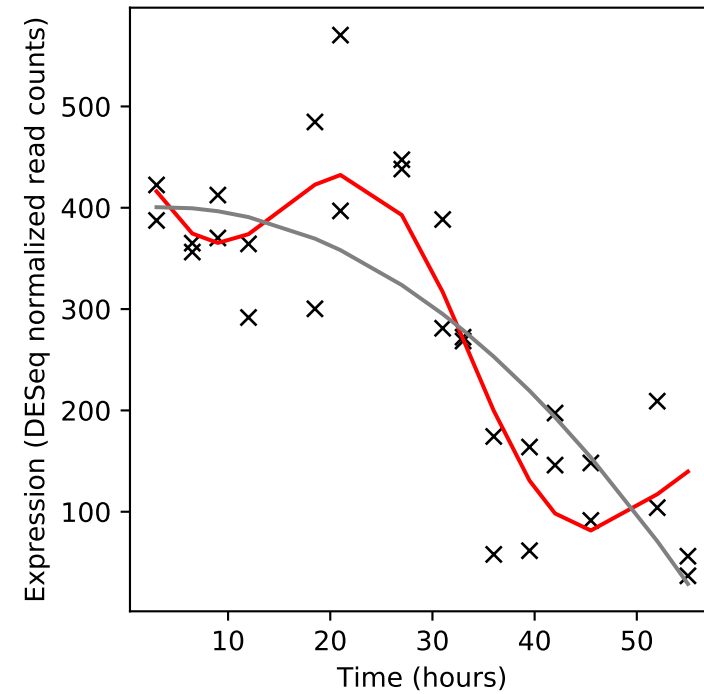
Rv3282/-



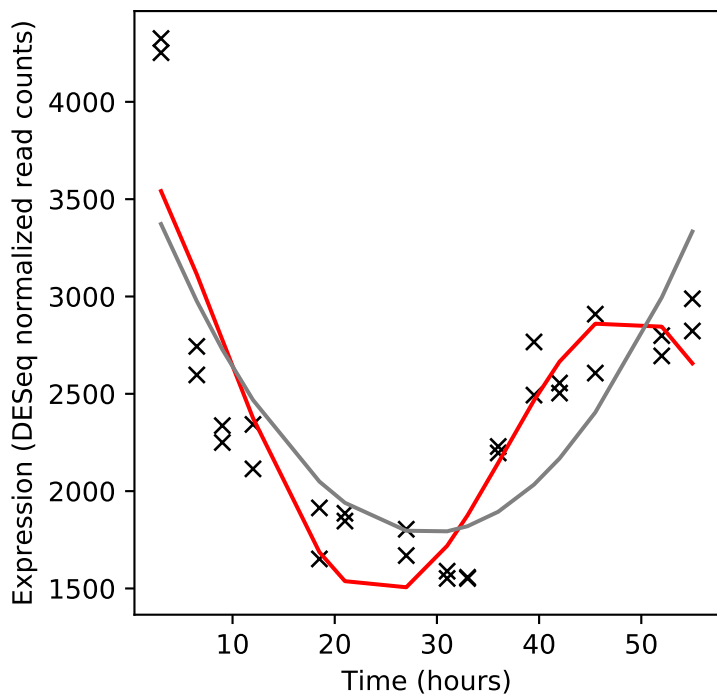
Rv3283/sseA



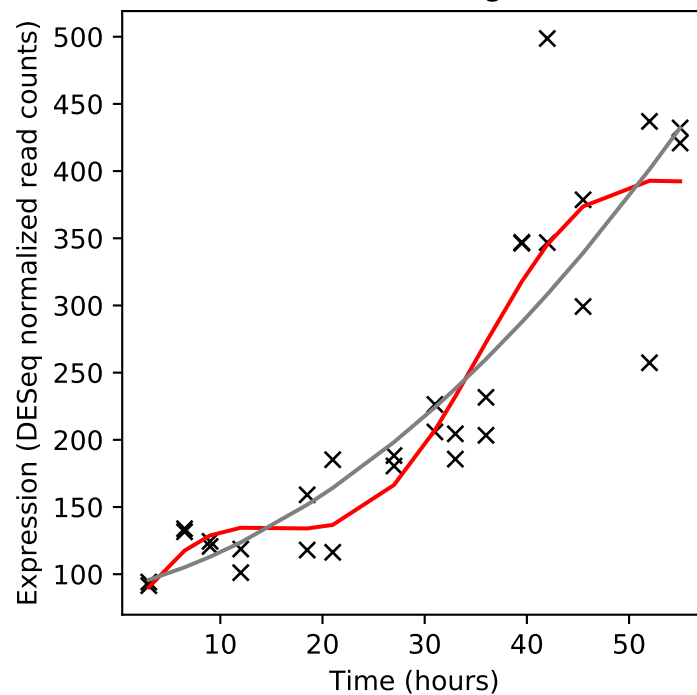
Rv3284/-



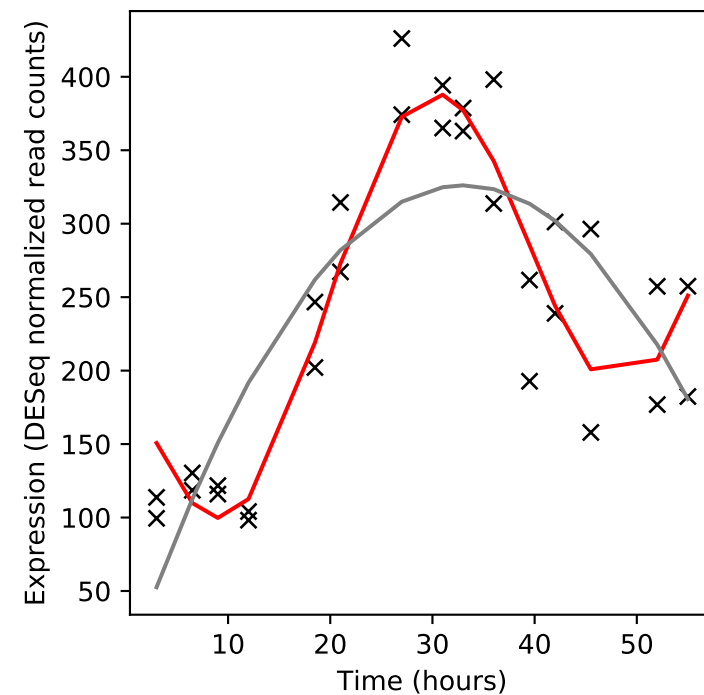
Rv3285/accA3



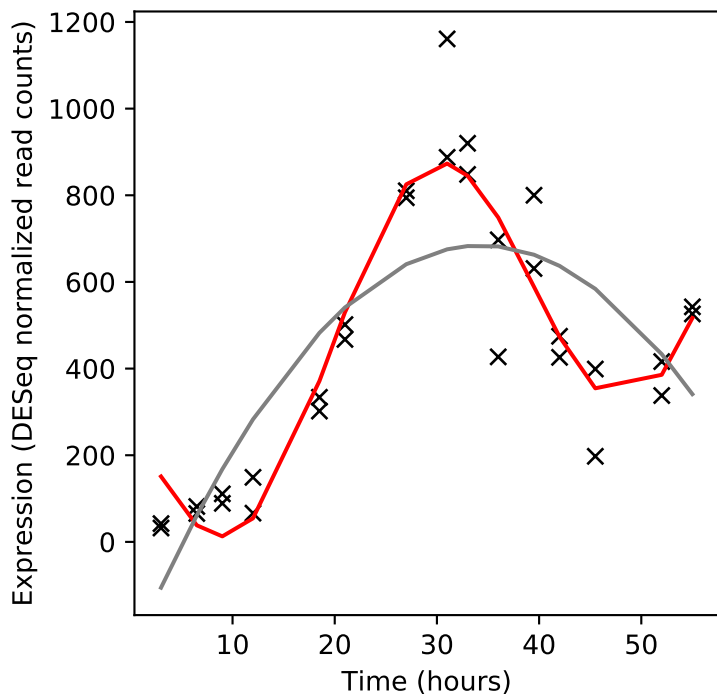
Rv3286c/sigF



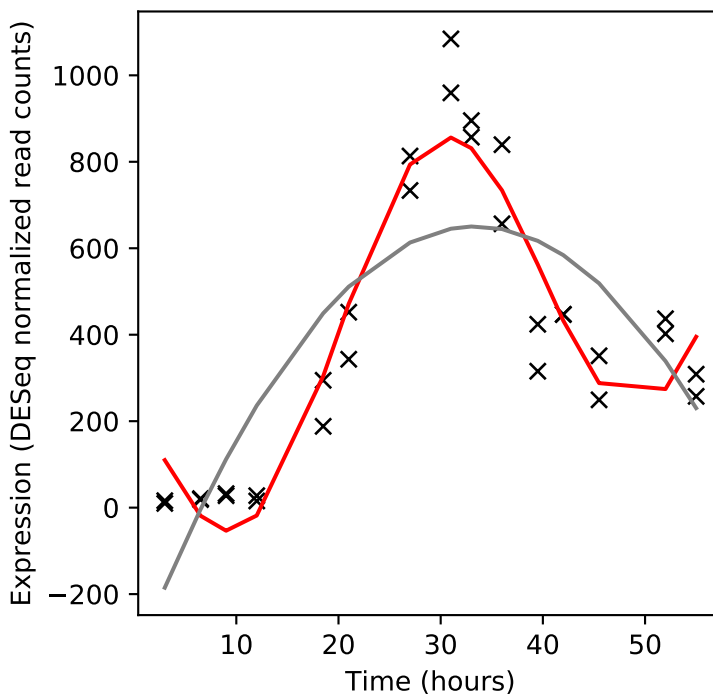
Rv3287c/rsbW



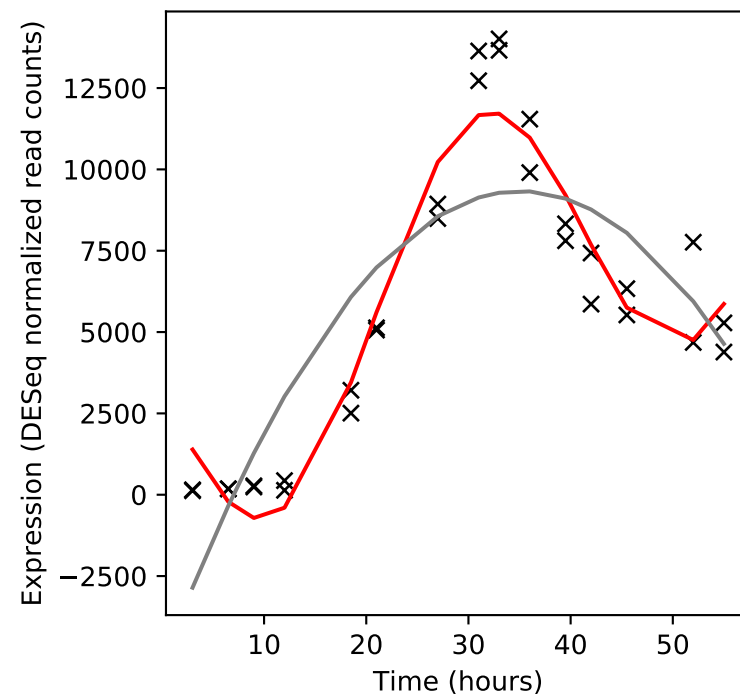
Rv3288c/usfY



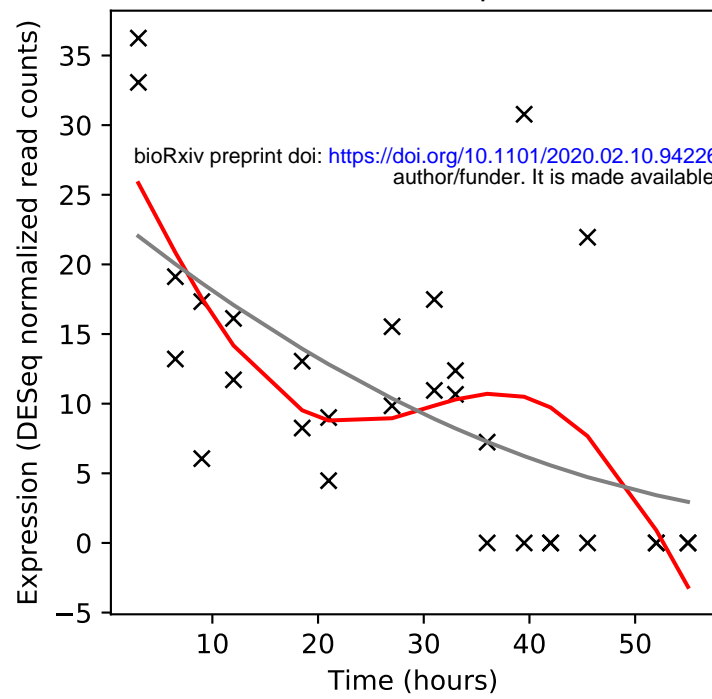
Rv3289c/-



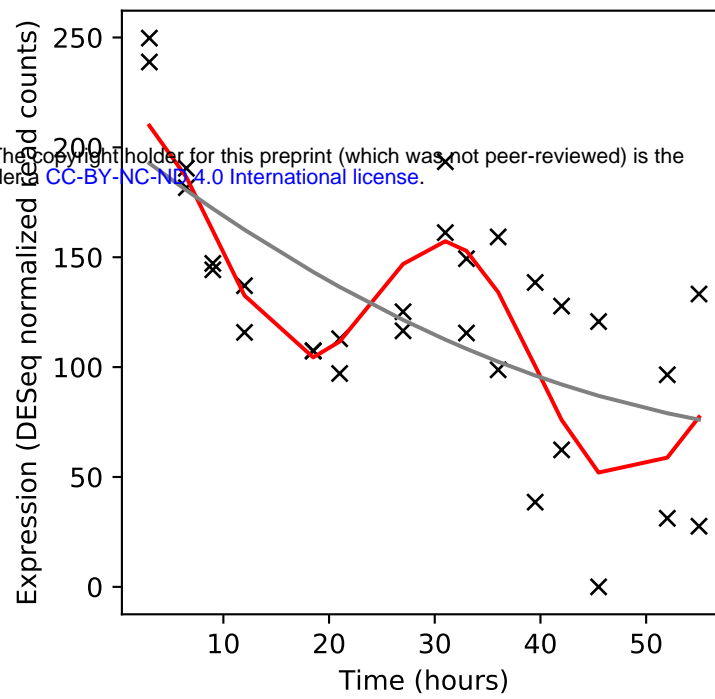
Rv3290c/lat



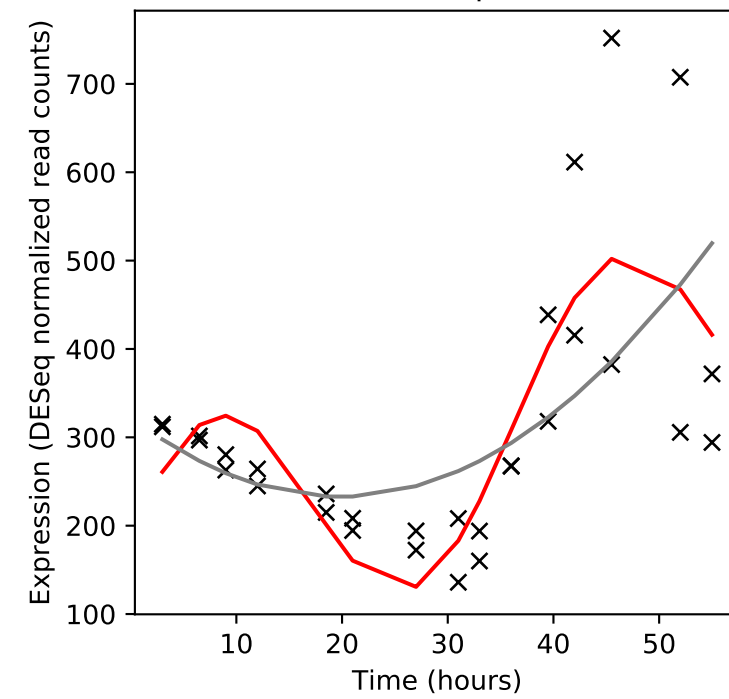
Rv3291c/lrpA



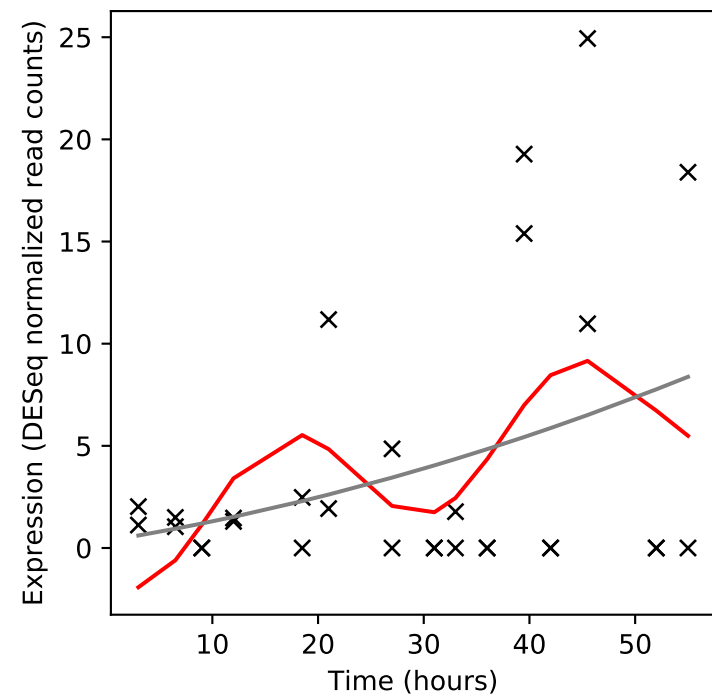
Rv3292/-



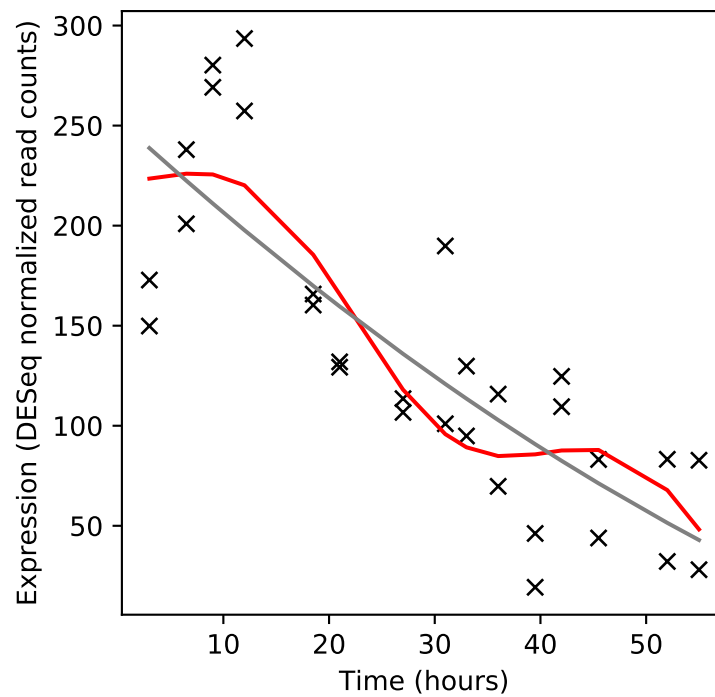
Rv3293/pcd



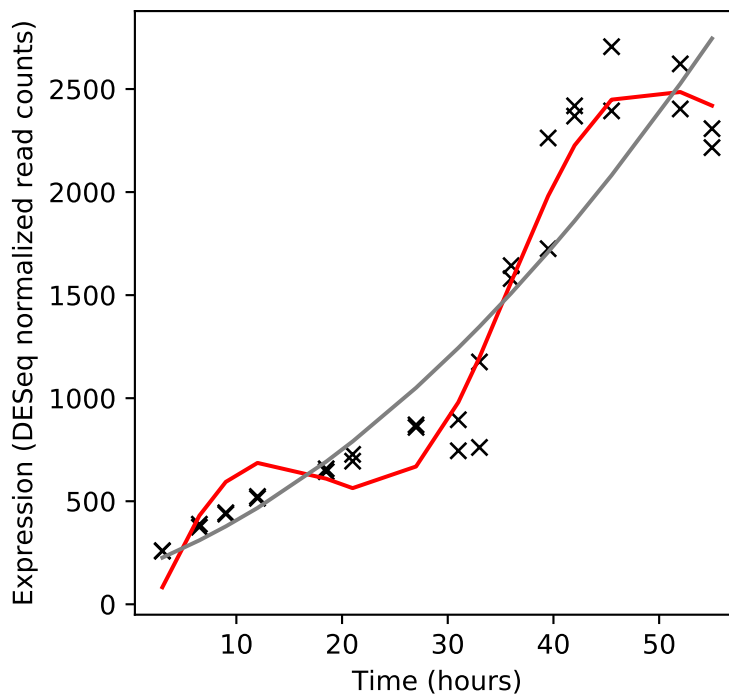
Rv3294c/-



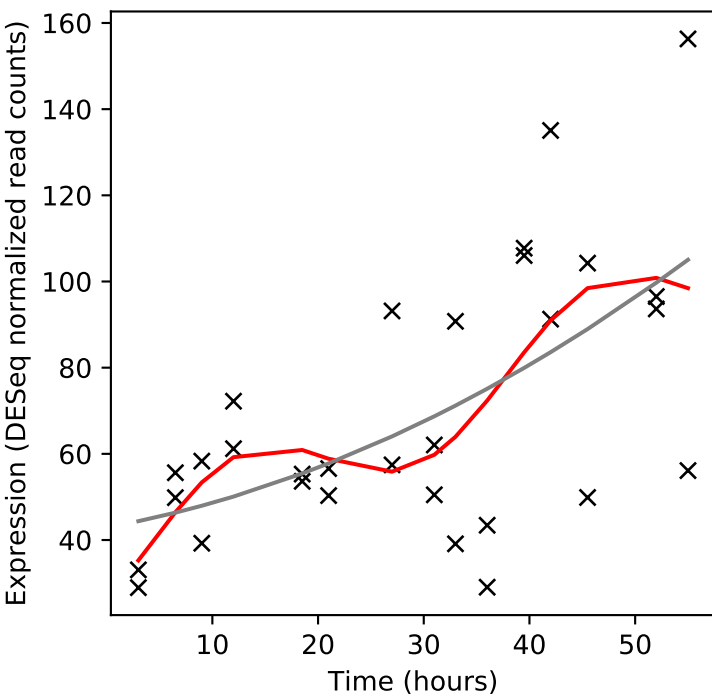
Rv3295/-



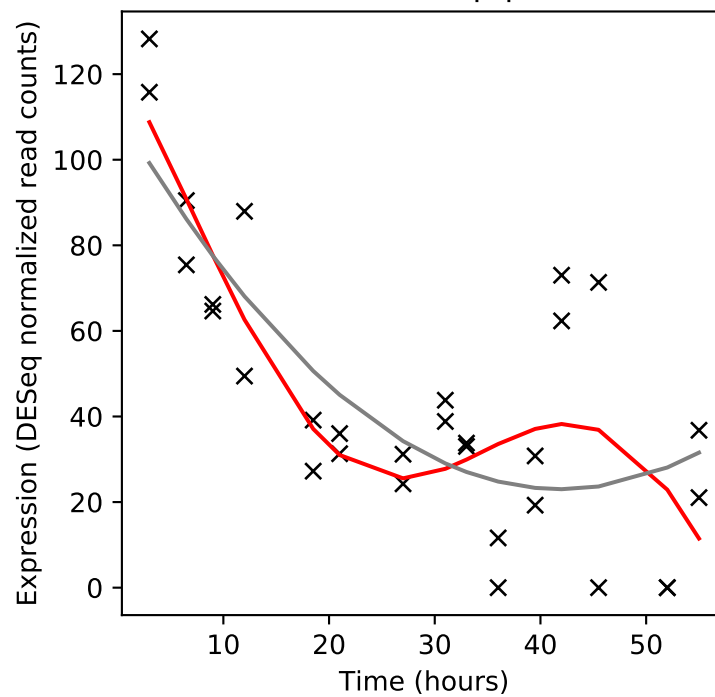
Rv3296/lhr



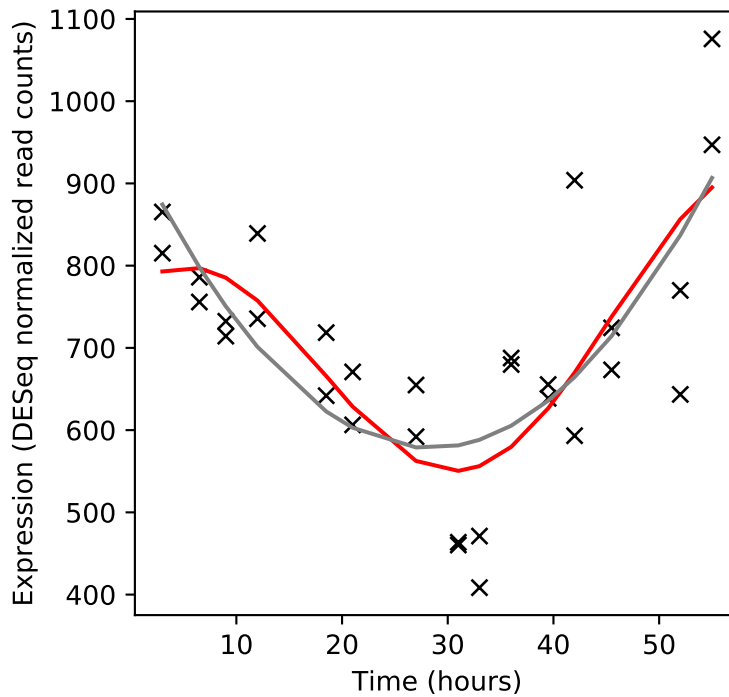
Rv3297/nei



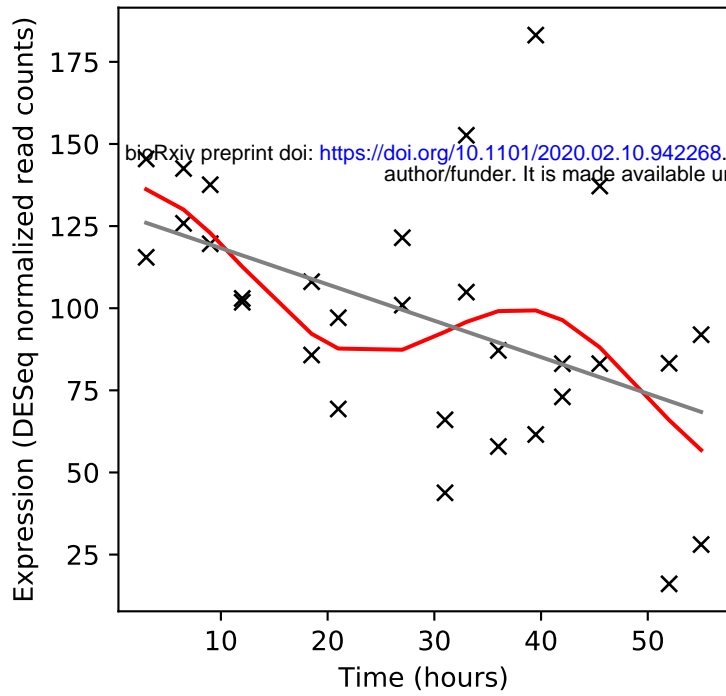
Rv3298c/lpqC



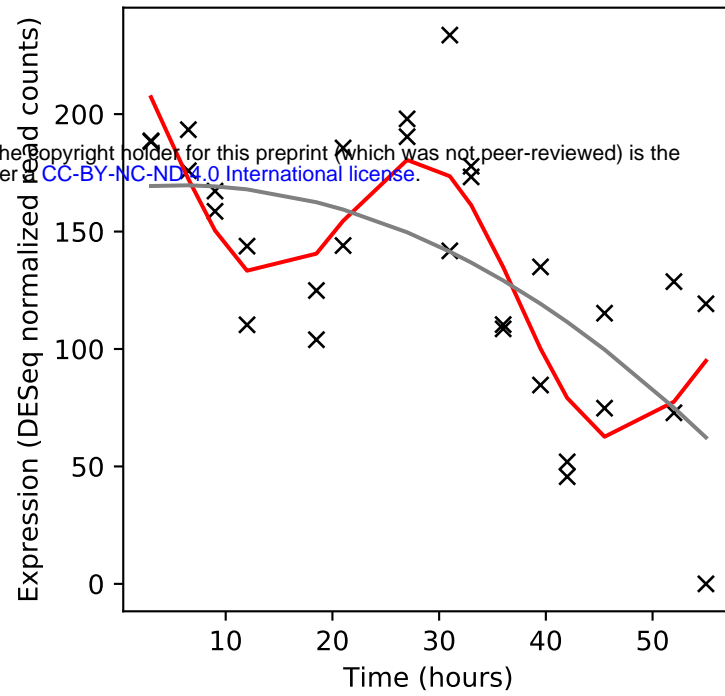
Rv3299c/atsB



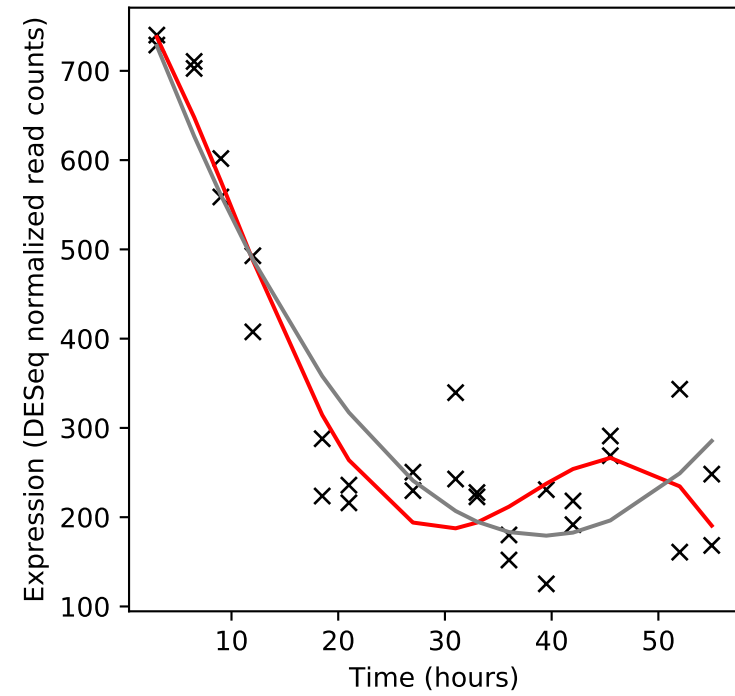
Rv3300c/-



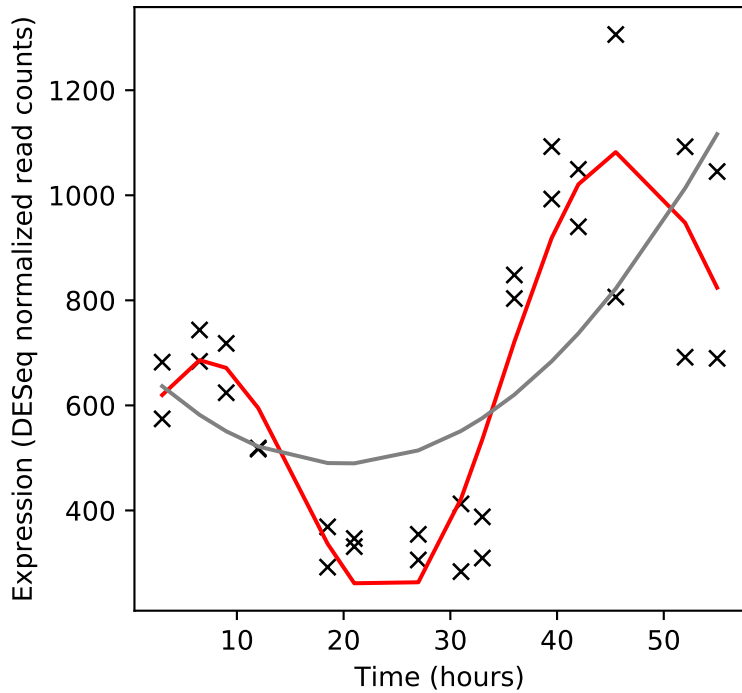
Rv3301c/phoY1



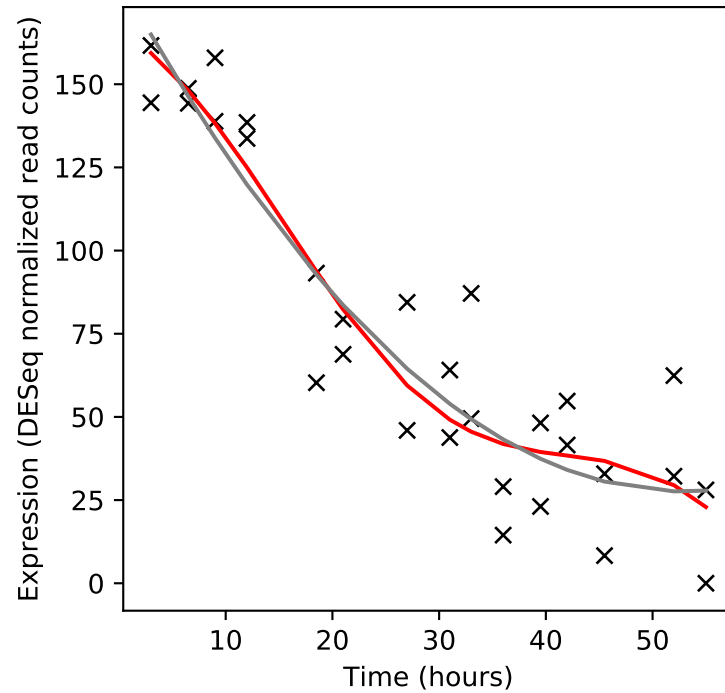
Rv3302c/glpD2



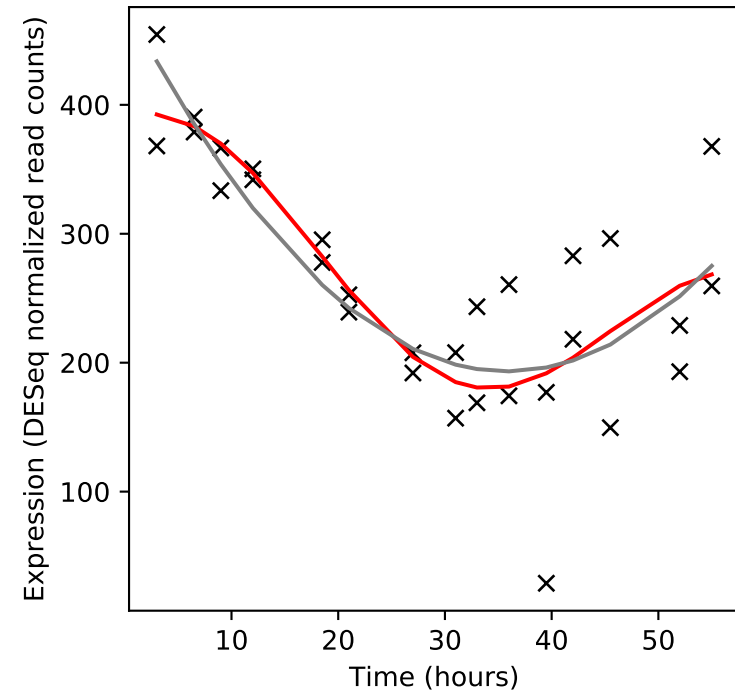
Rv3303c/lpdA



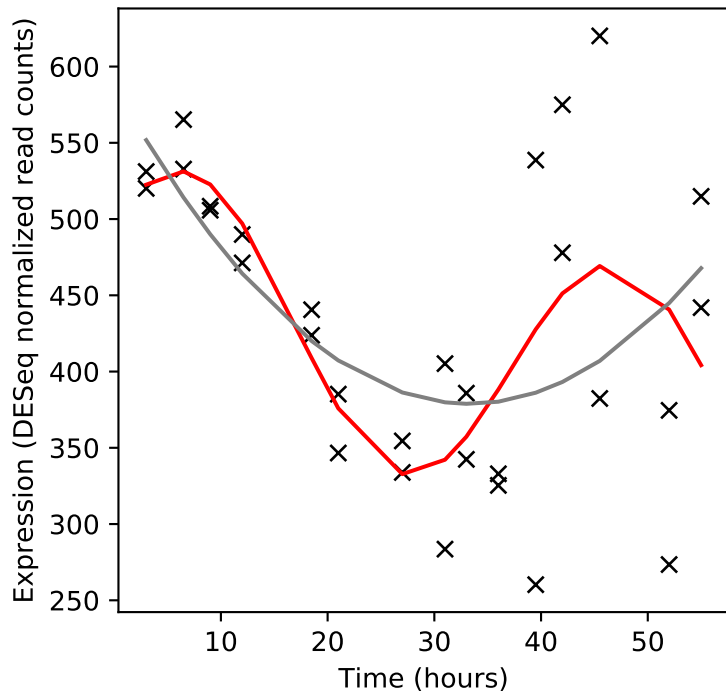
Rv3304/-



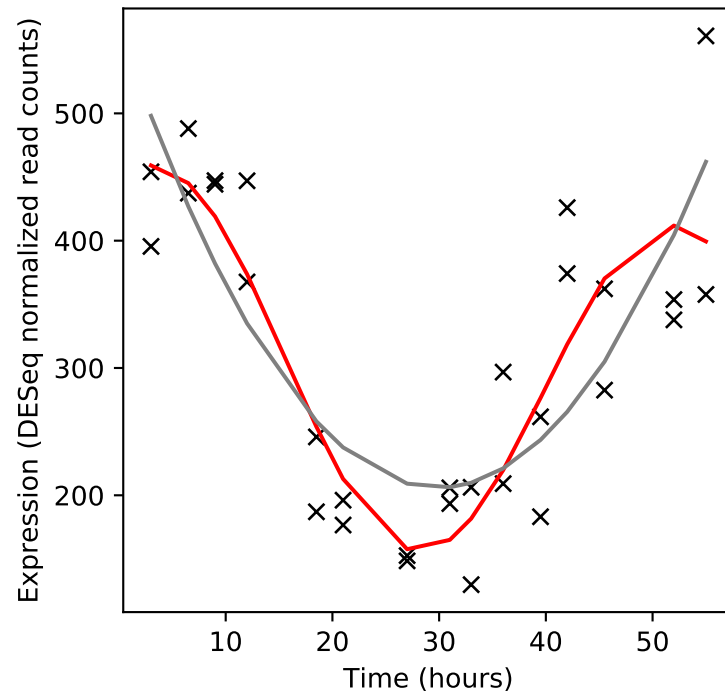
Rv3305c/amiA1



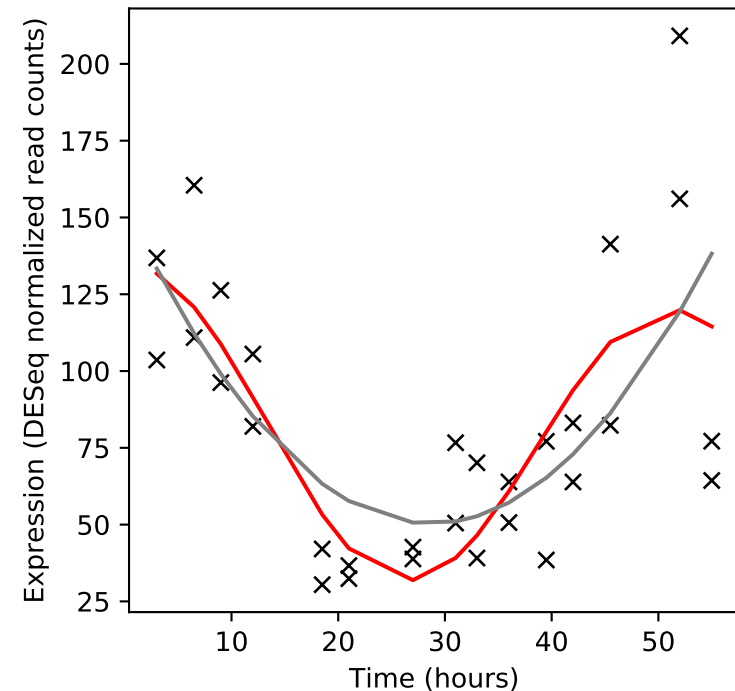
Rv3306c/amiB1



Rv3307/deoD

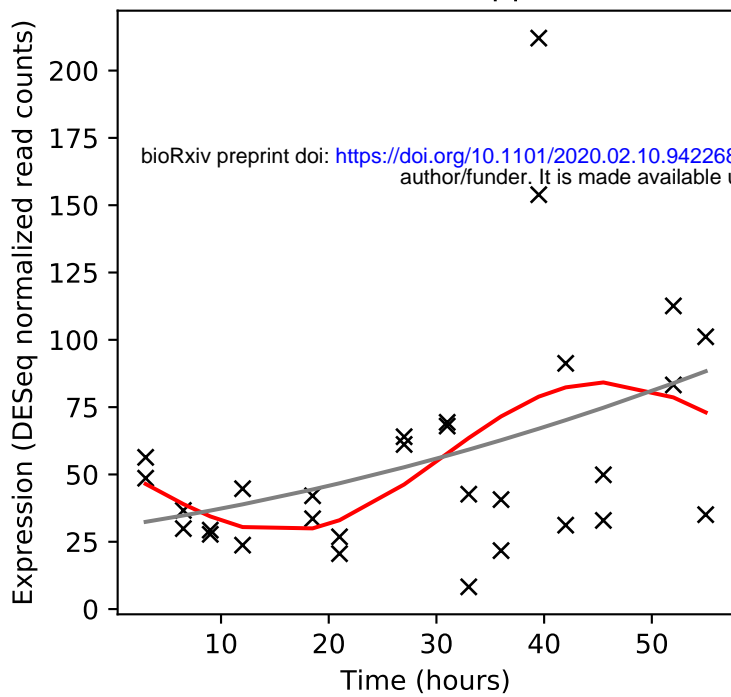


Rv3308/pmmB

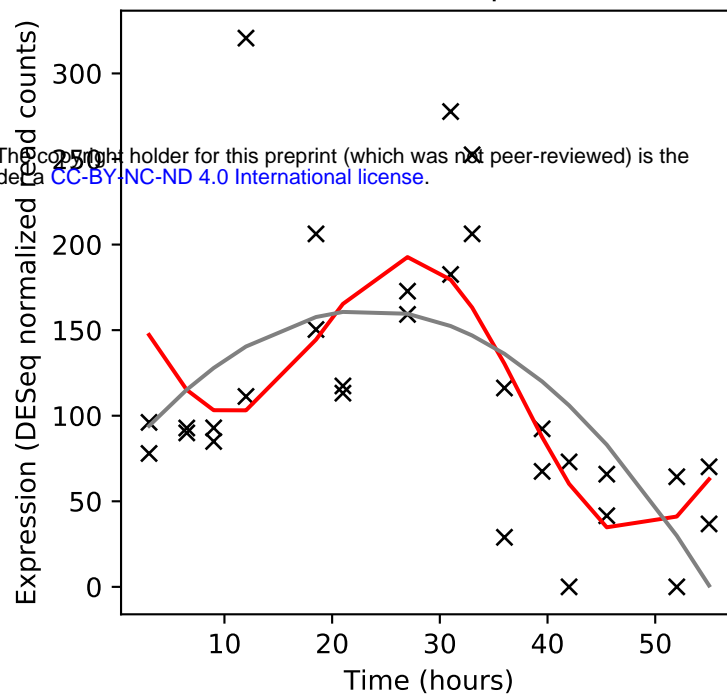


bioRxiv preprint doi: <https://doi.org/10.1101/2020.02.10.942268>; this version posted February 11, 2020. The copyright holder for this preprint (which was not peer-reviewed) is the author/funder. It is made available under aCC-BY-NC-ND 4.0 International license.

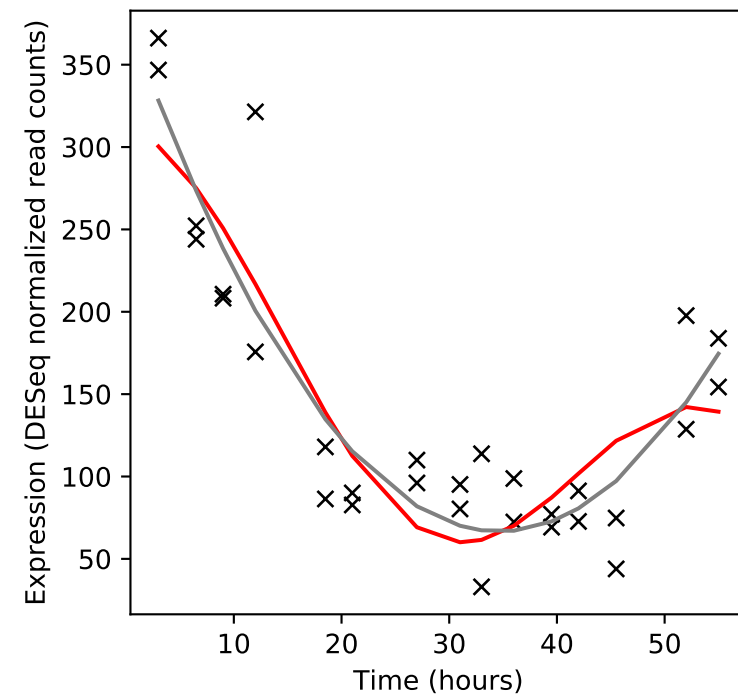
Rv3309c/upp



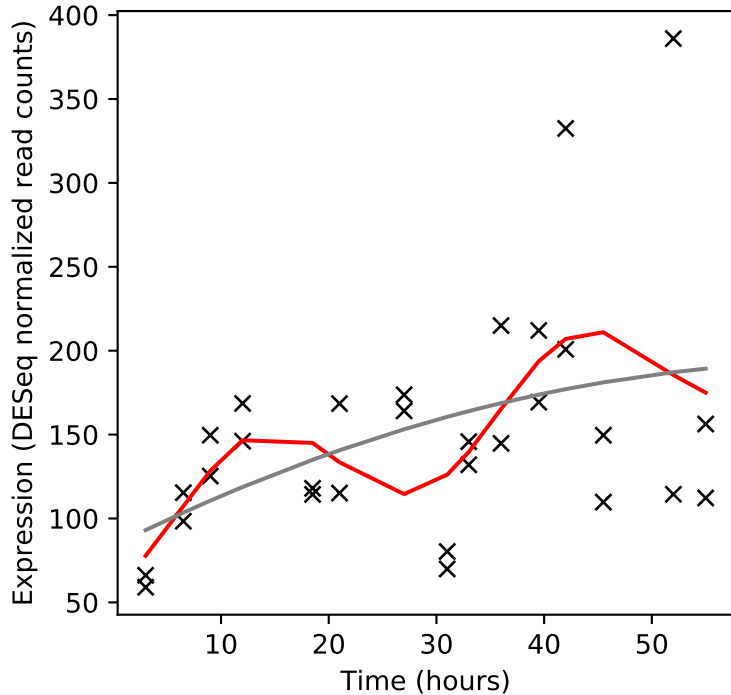
Rv3310/sapM



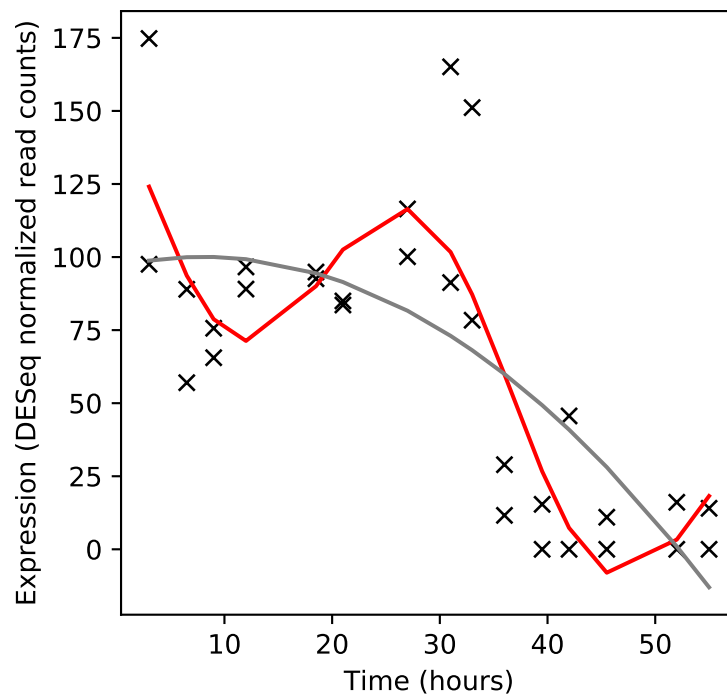
Rv3311/-



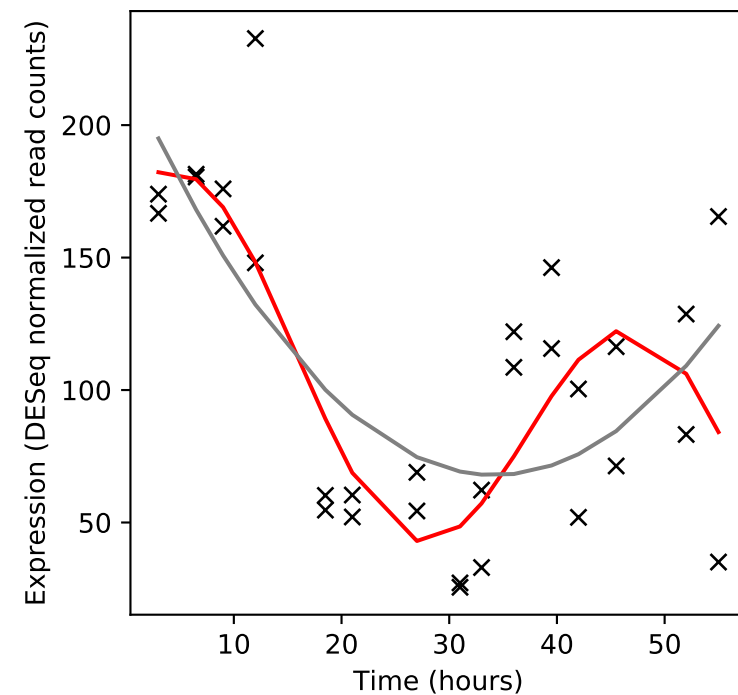
Rv3312c/-



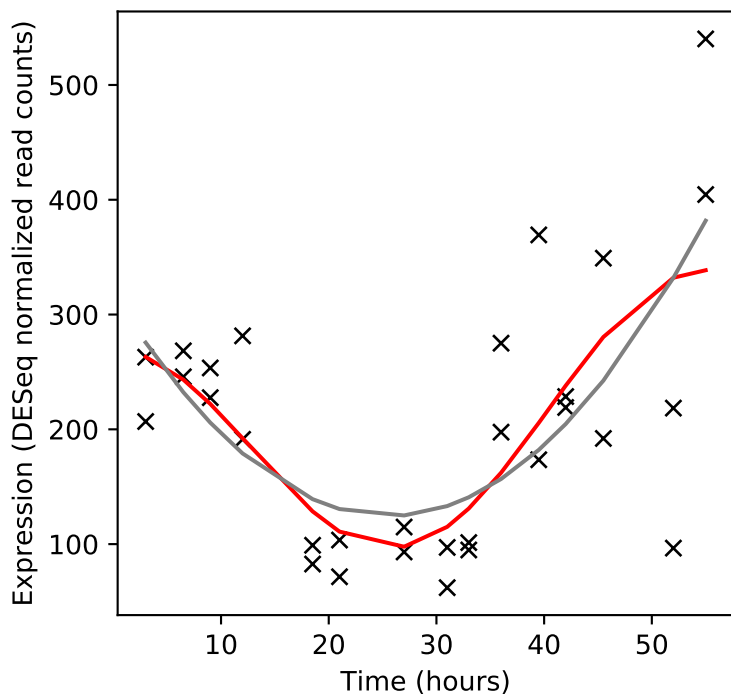
Rv3312A/-



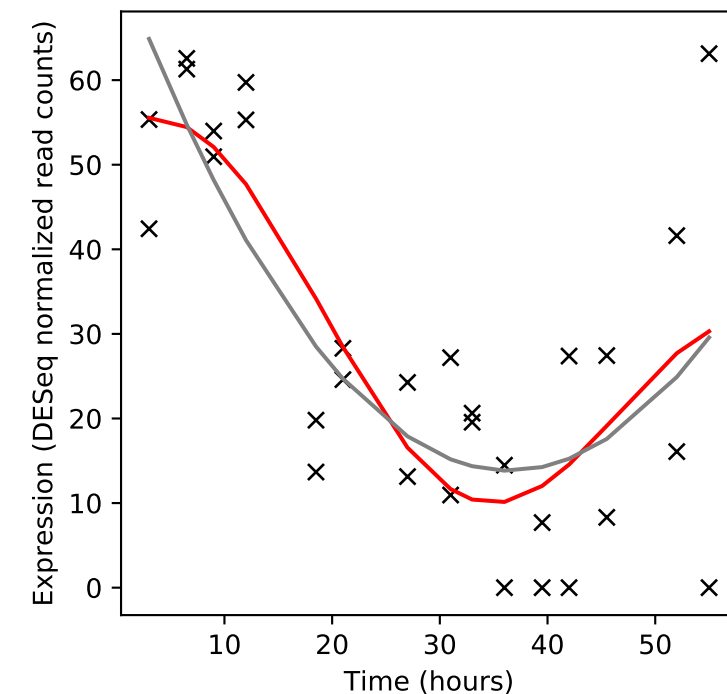
Rv3313c/add



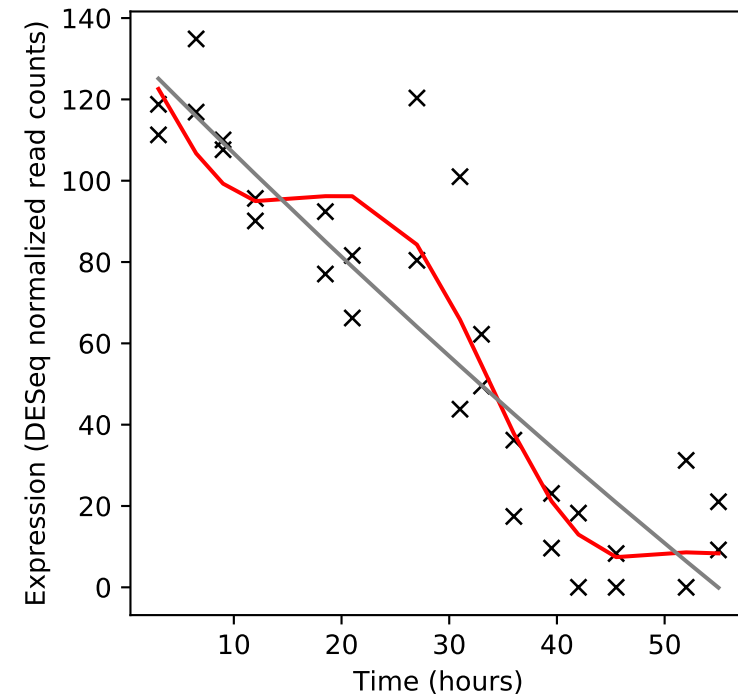
Rv3314c/deoA



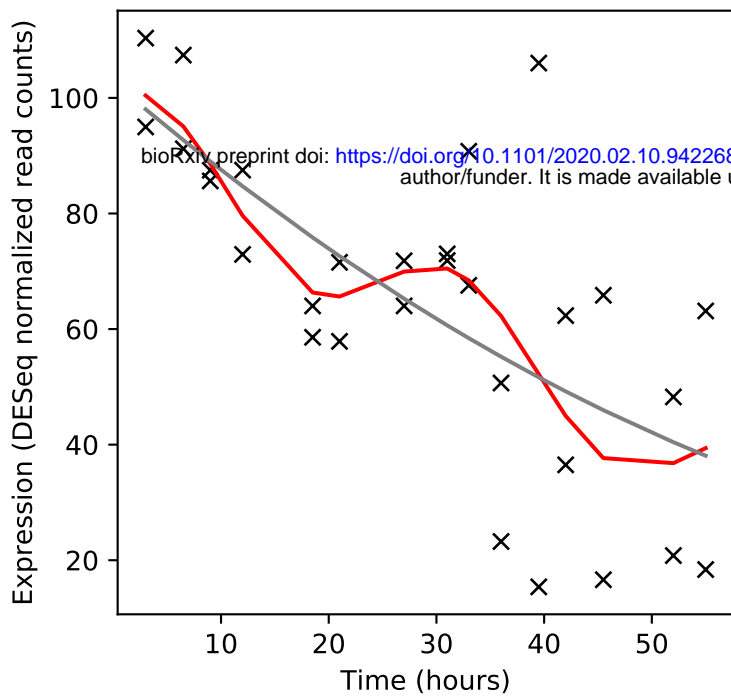
Rv3315c/cdd



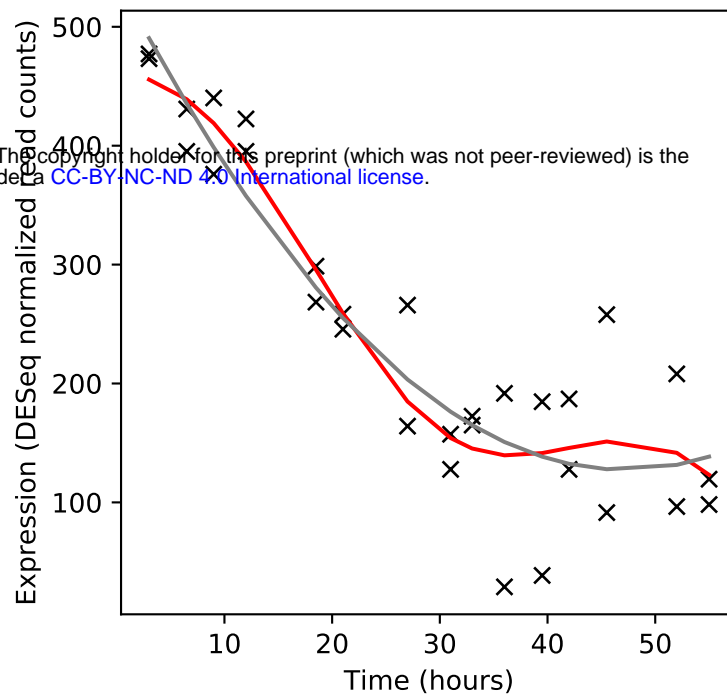
Rv3316/sdhC



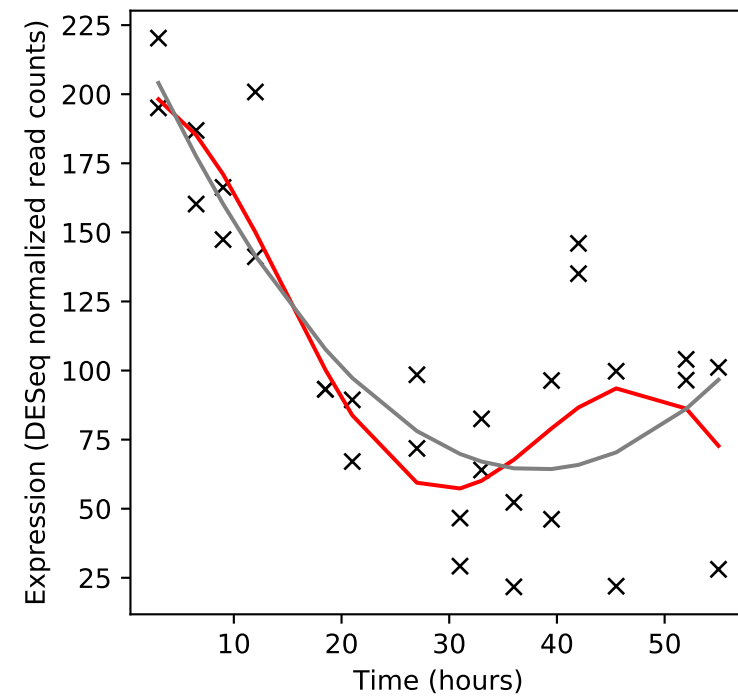
Rv3317/sdhD



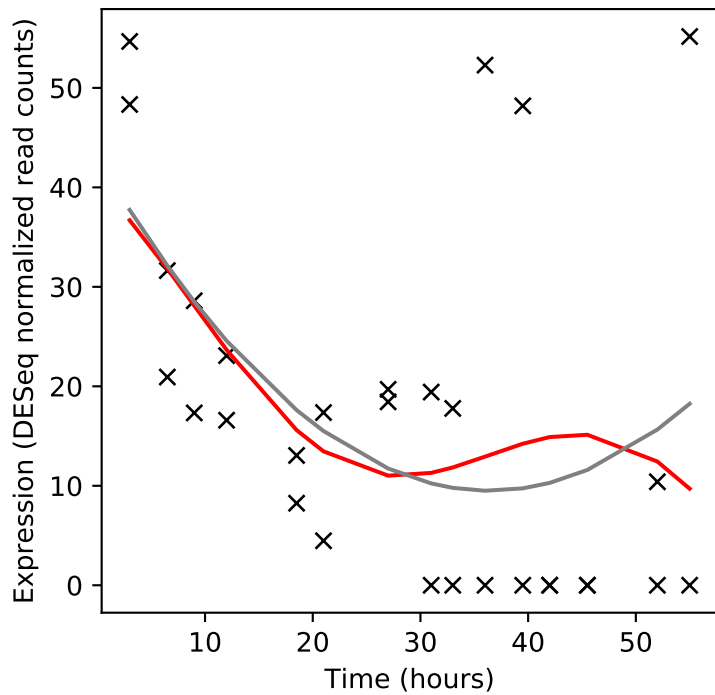
Rv3318/sdhA



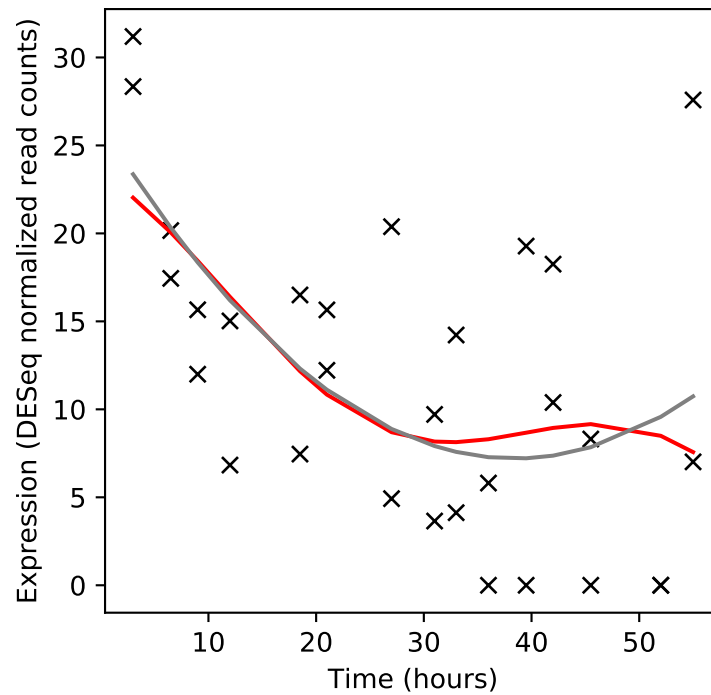
Rv3319/sdhB



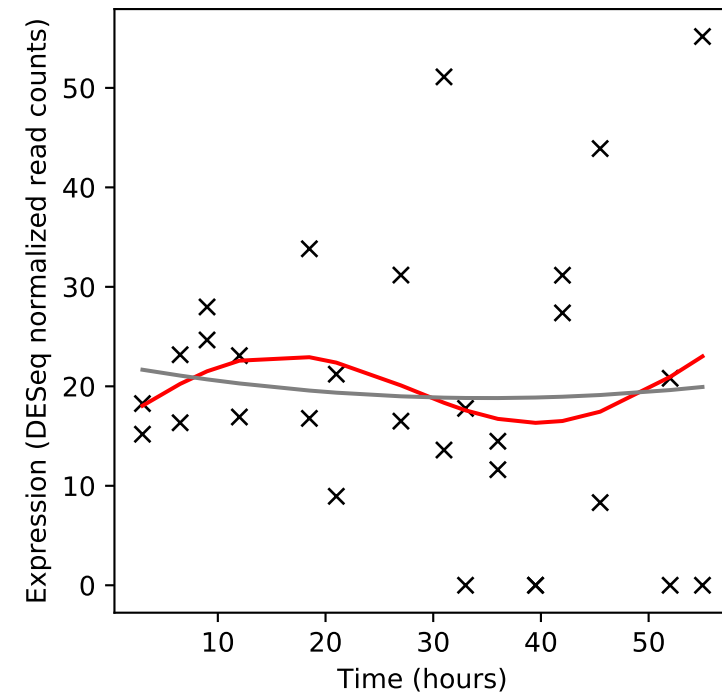
Rv3320c/vapC44



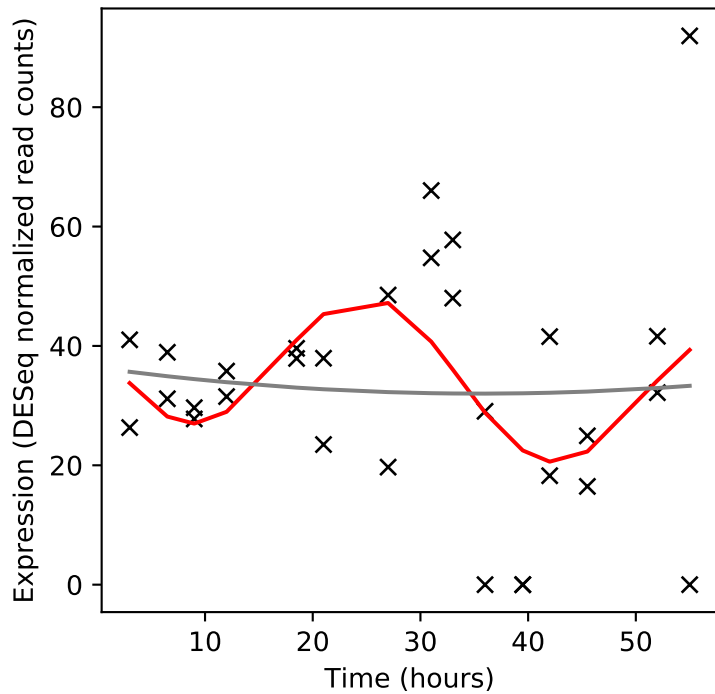
Rv3321c/vapB44



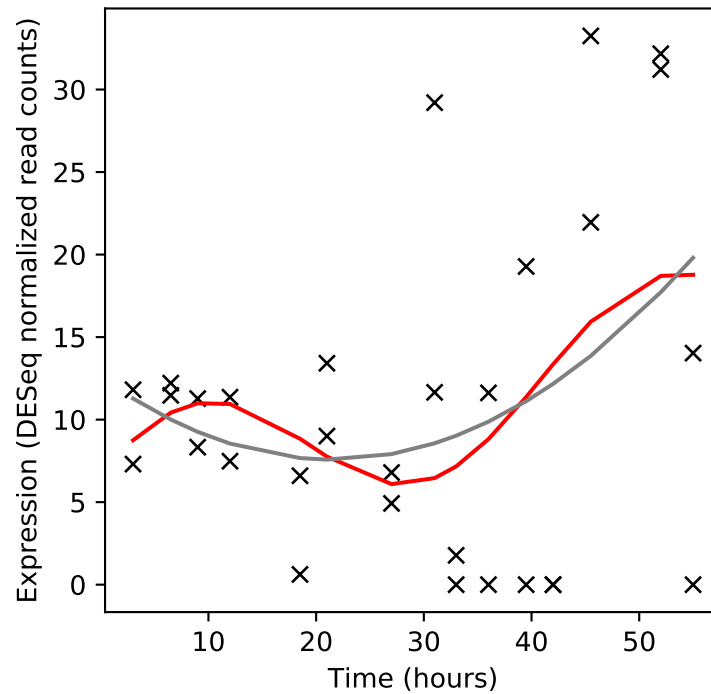
Rv3322c/-



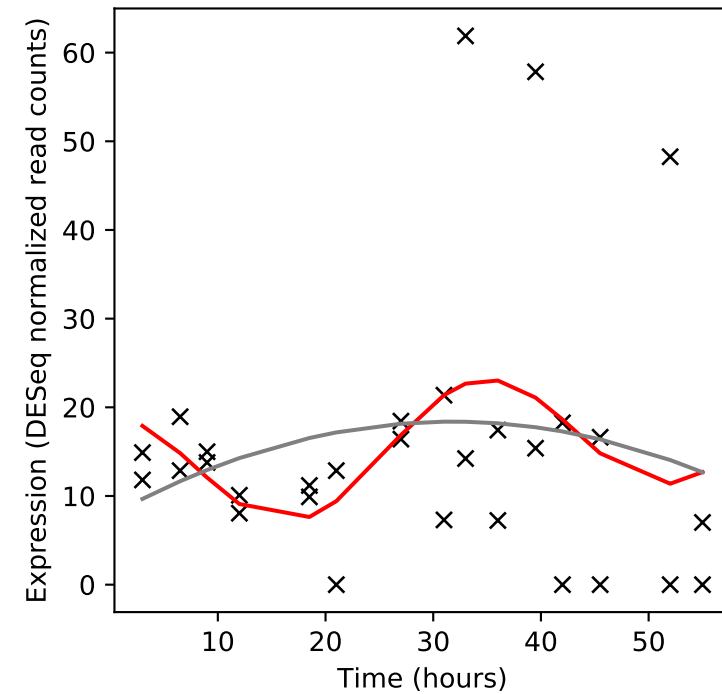
Rv3323c/moaX



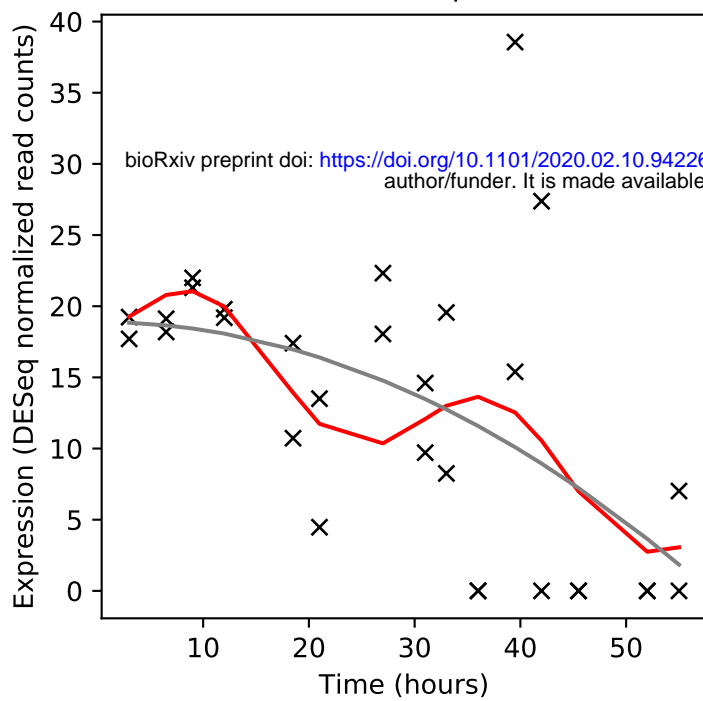
Rv3324c/moaC3



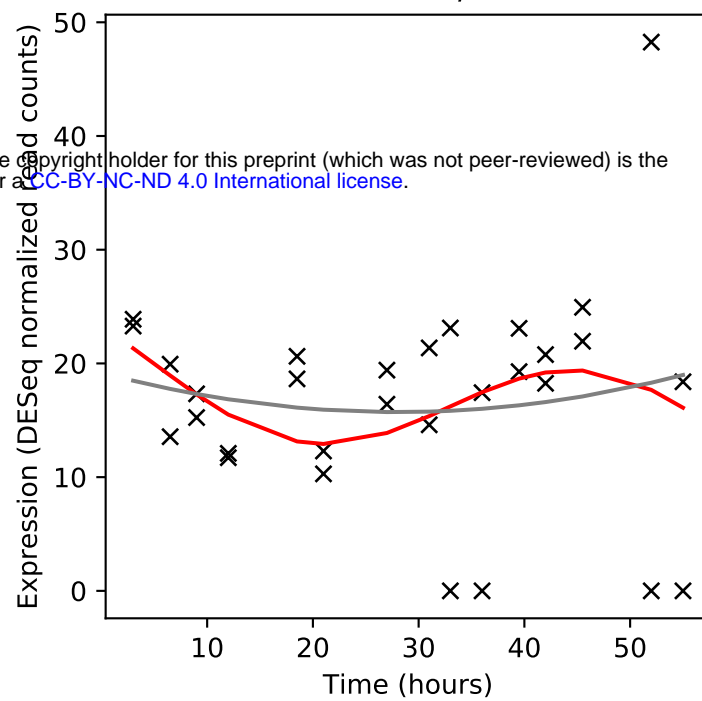
Rv3325c/-



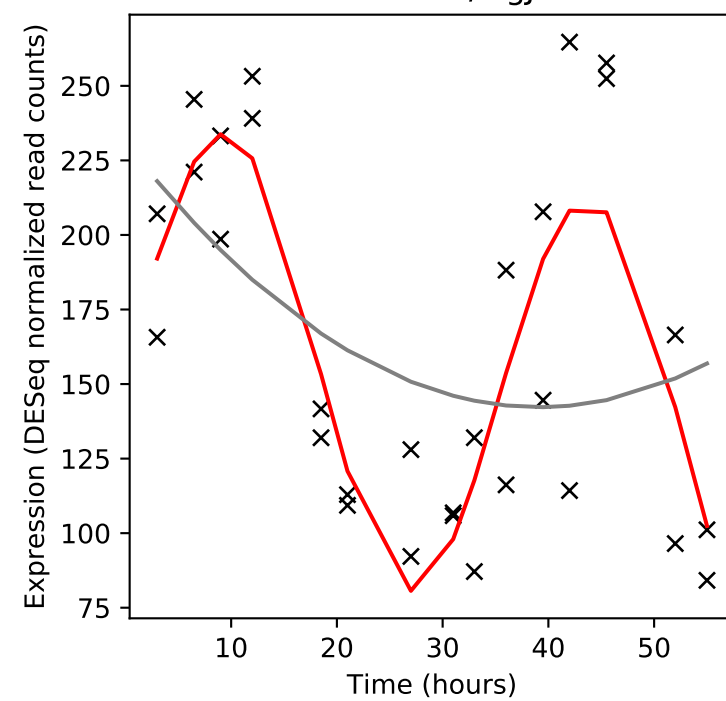
Rv3326/-



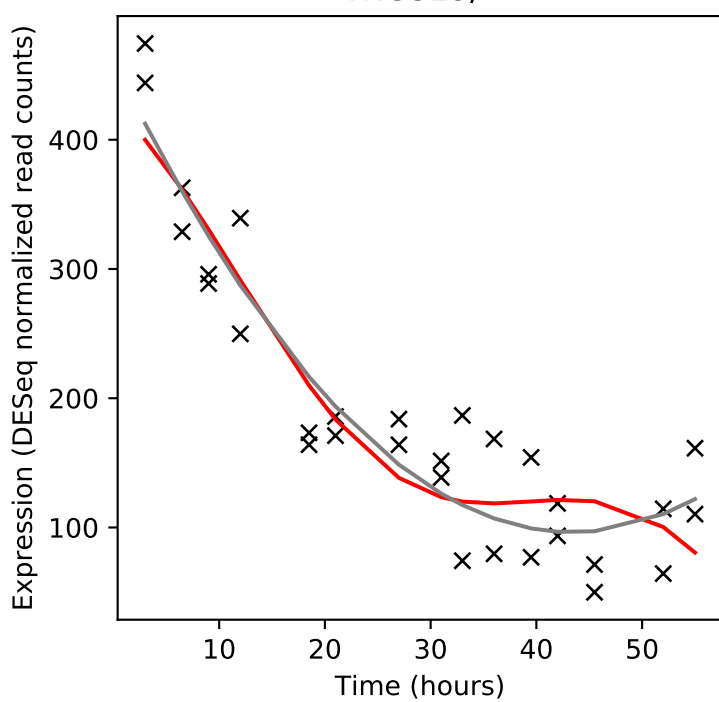
Rv3327/-



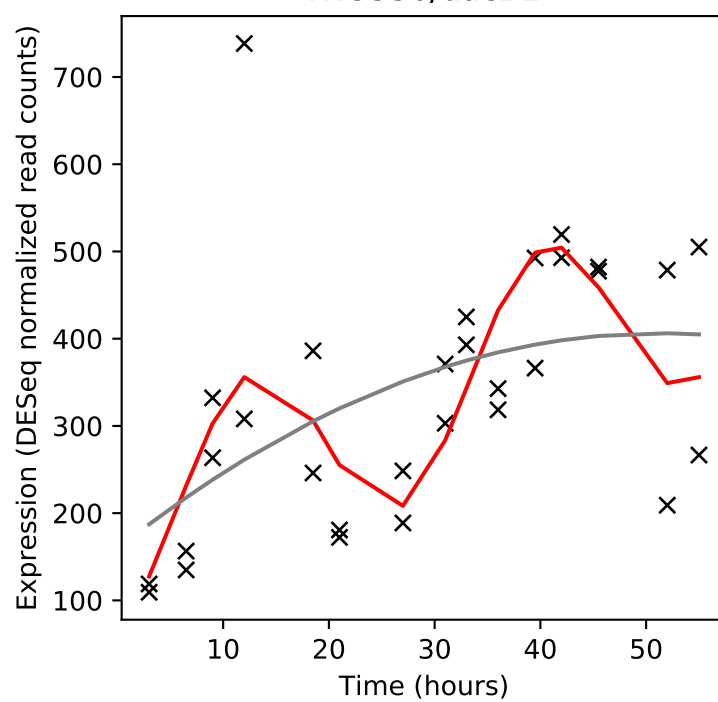
Rv3328c/sigJ



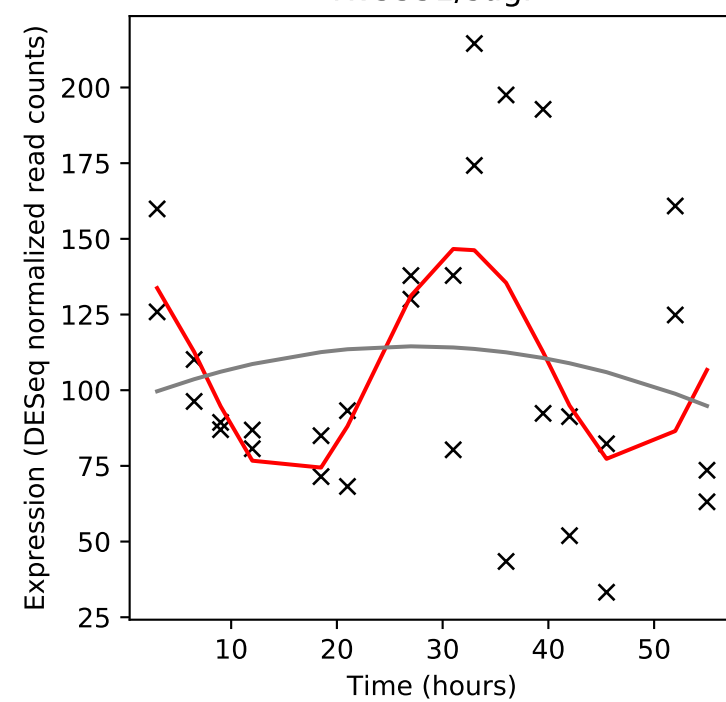
Rv3329/-



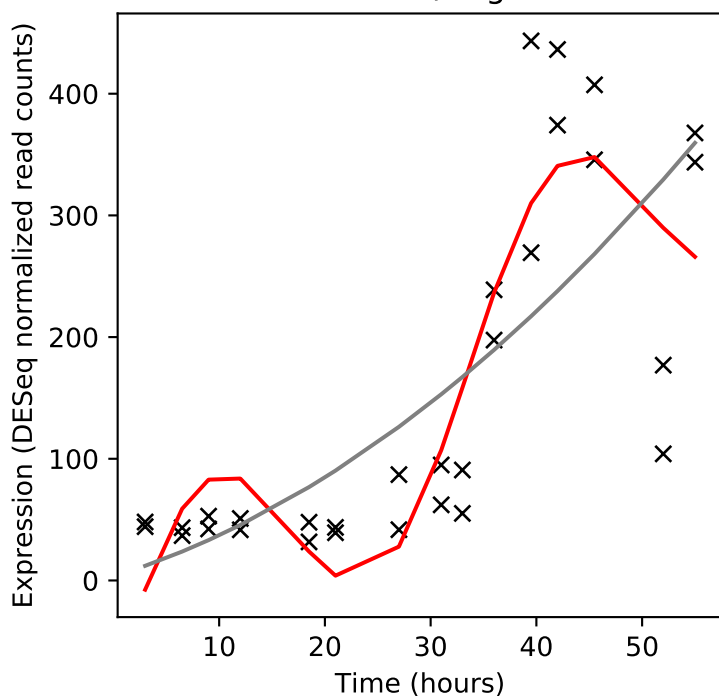
Rv3330/dacB1



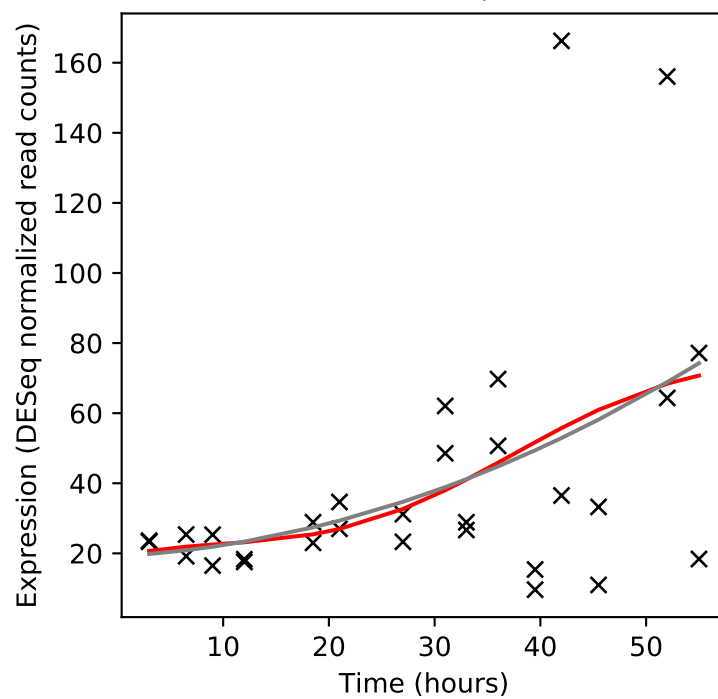
Rv3331/sugJ



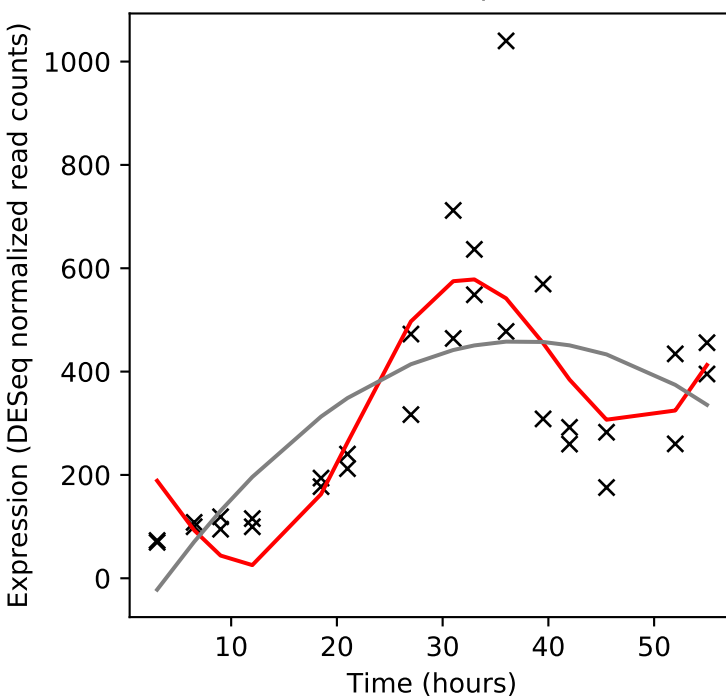
Rv3332/nagA



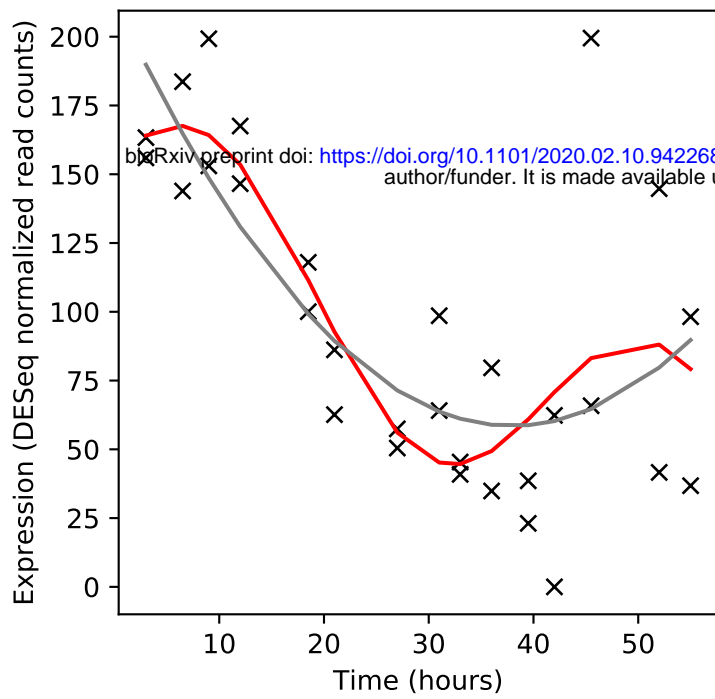
Rv3333c/-



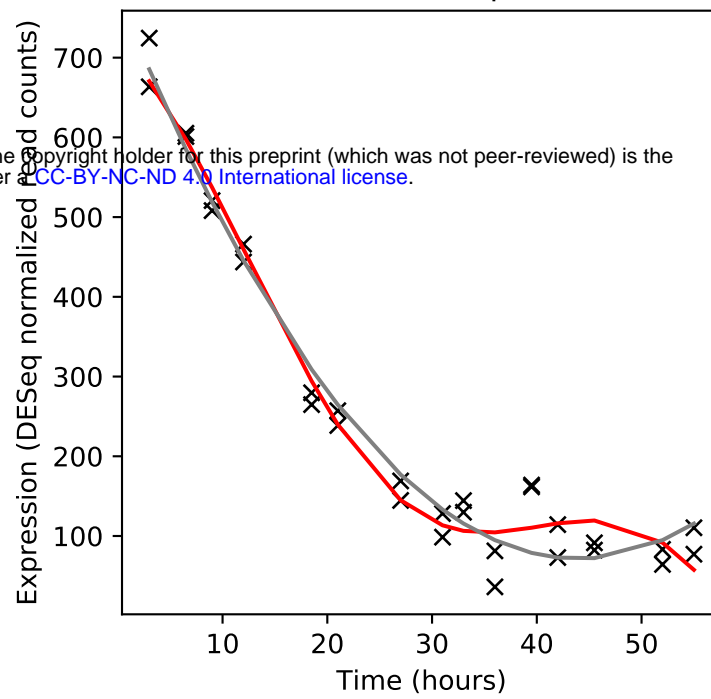
Rv3334/-



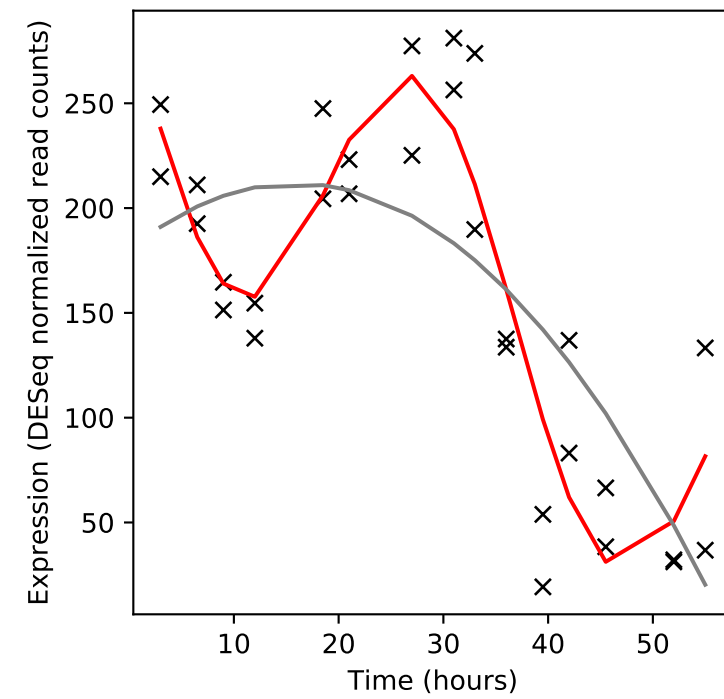
Rv3335c/-



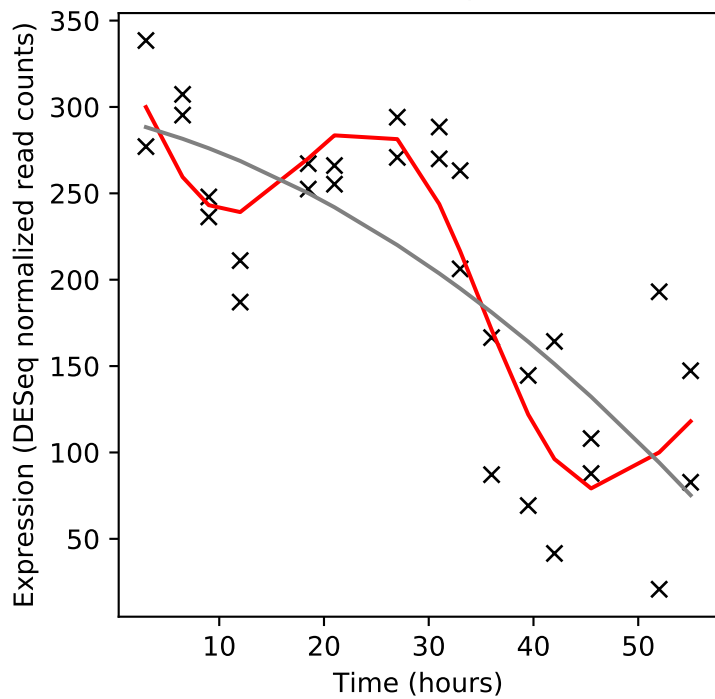
Rv3336c/trpS



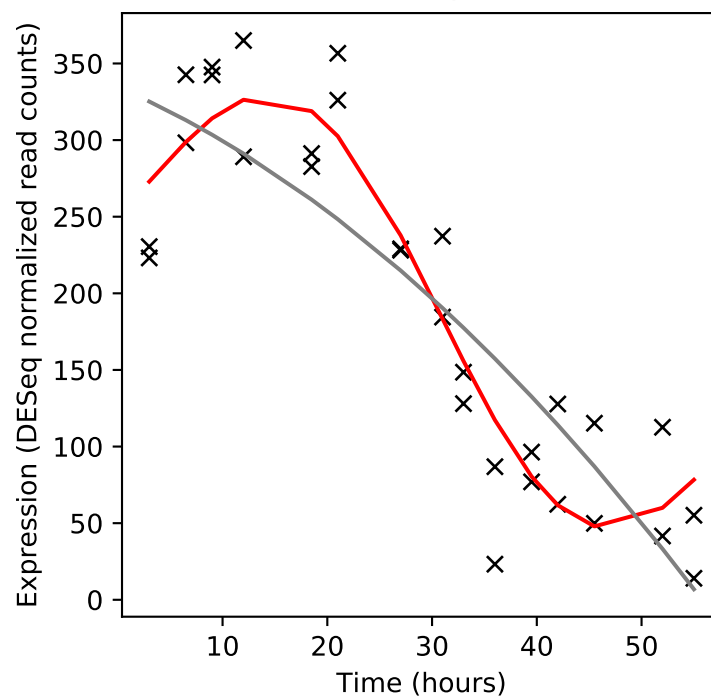
Rv3337/-



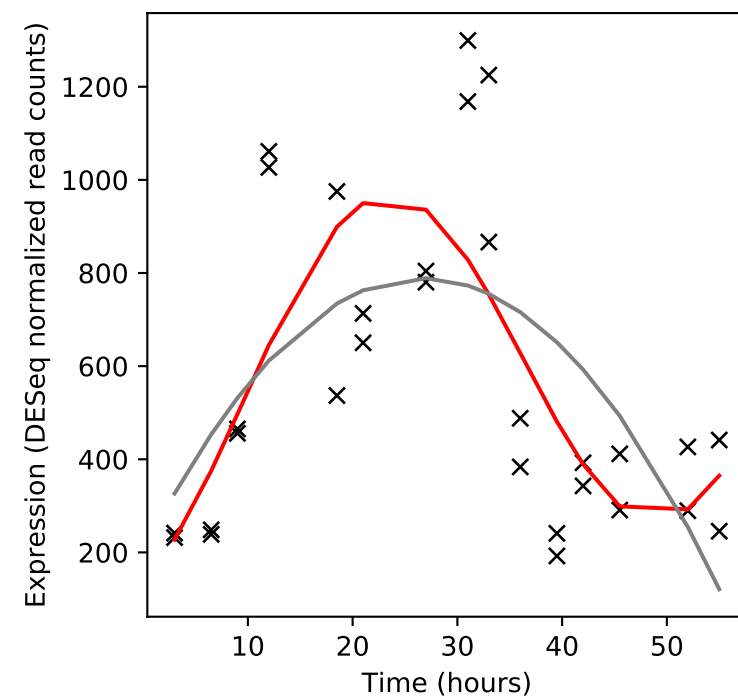
Rv3338/-



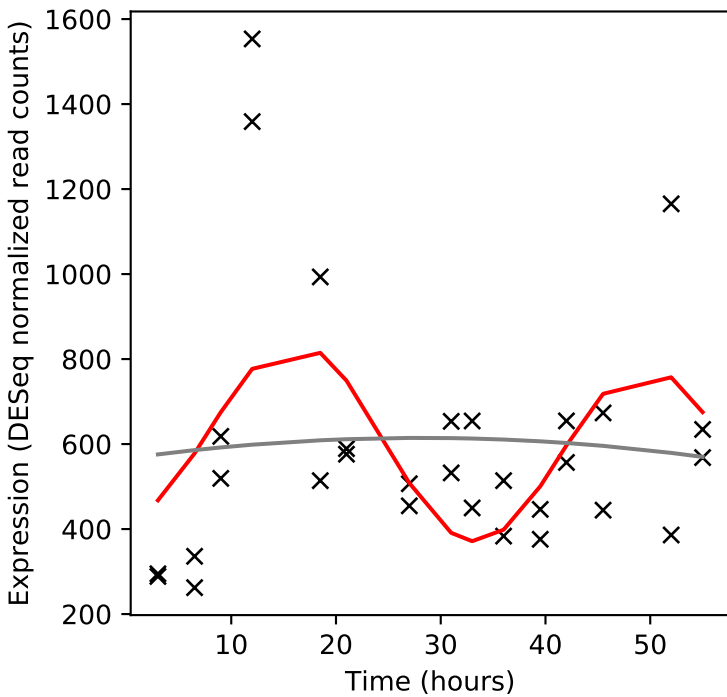
Rv3339c/icd1



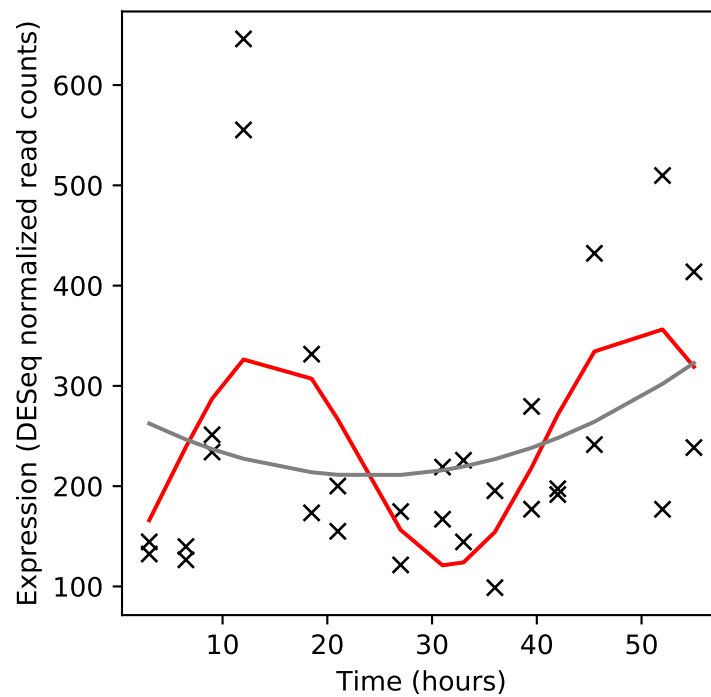
Rv3340/metC



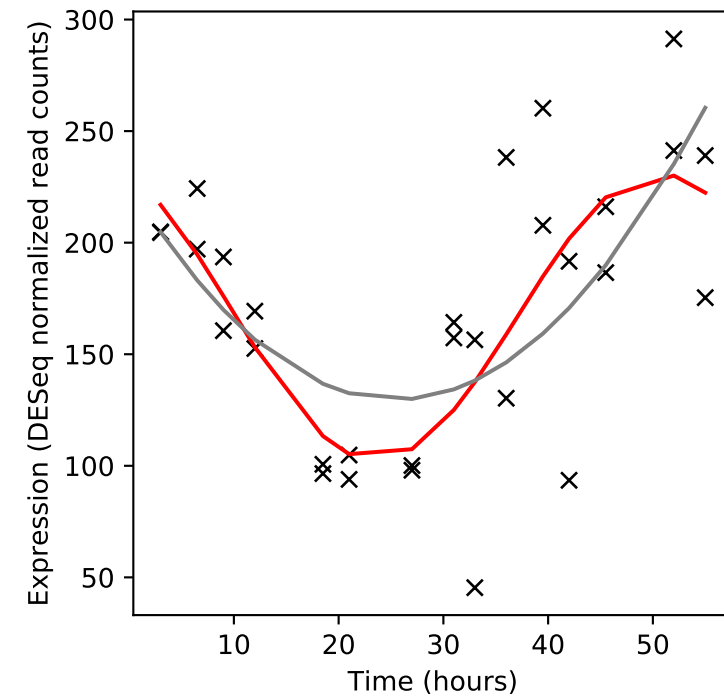
Rv3341/metA



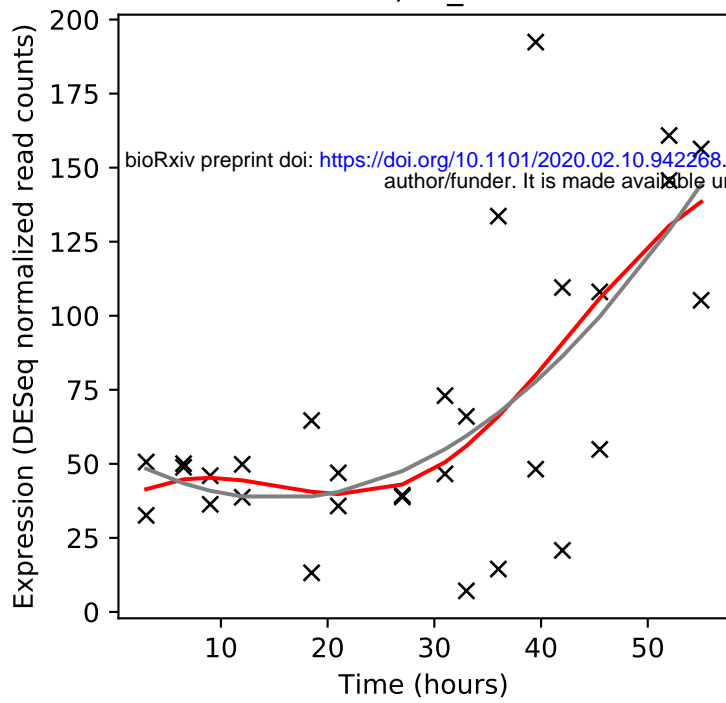
Rv3342/-



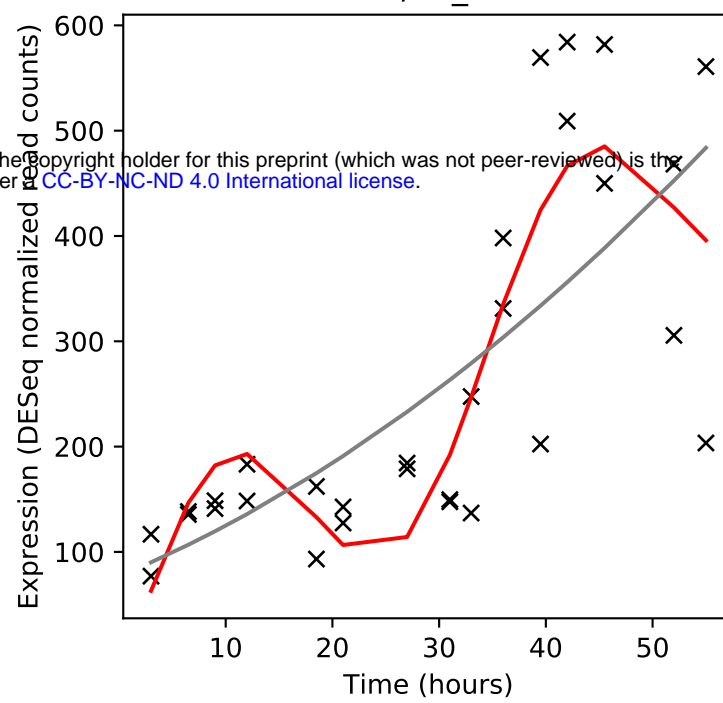
Rv3343c/PPE54



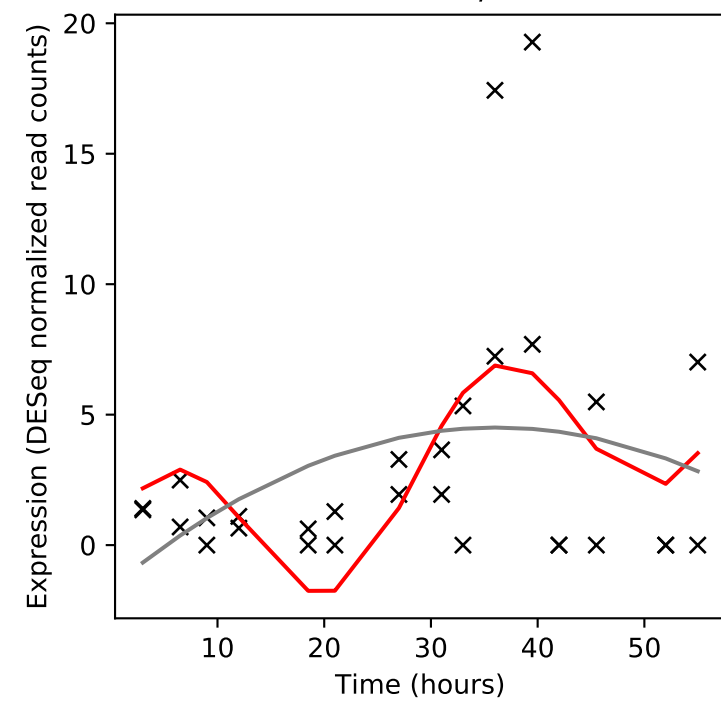
Rv3344c/PE_PGRS49



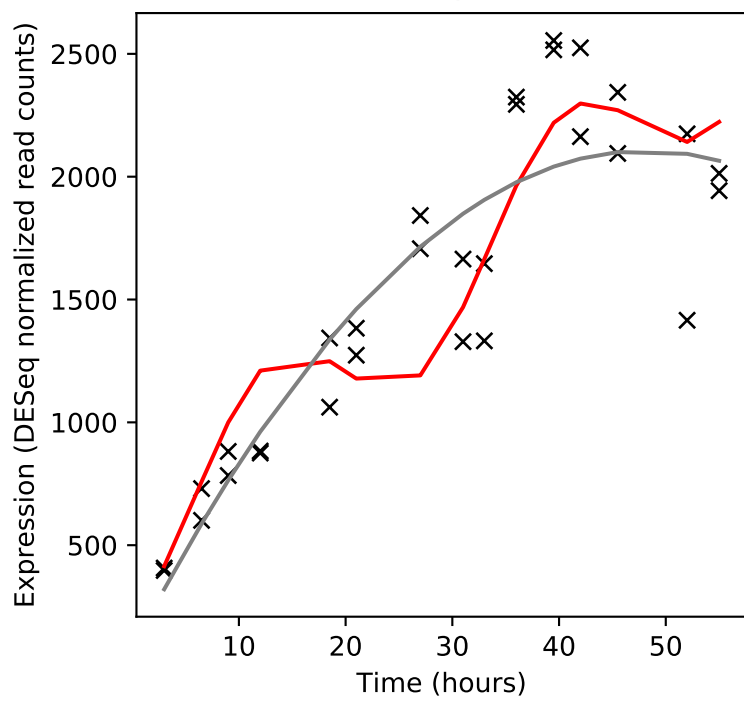
Rv3345c/PE_PGRS50



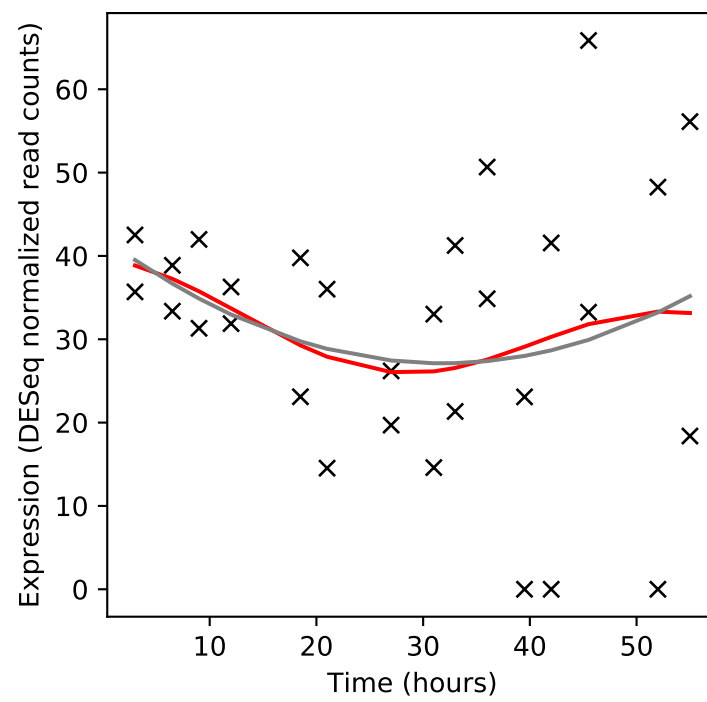
Rv3346c/-



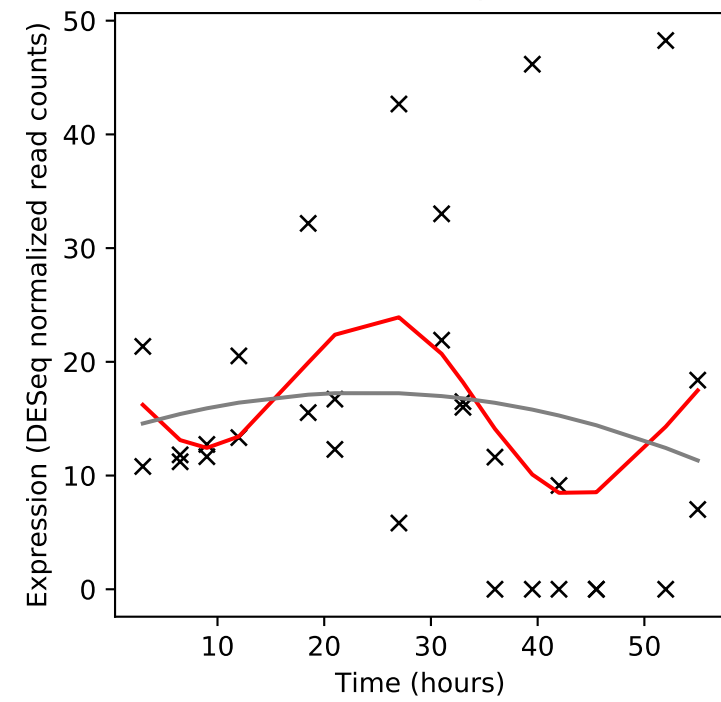
Rv3347c/PPE55



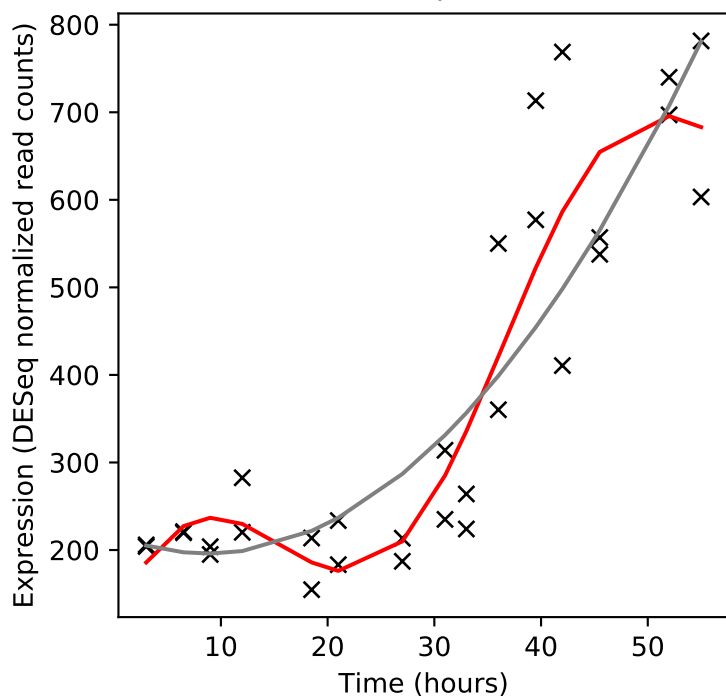
Rv3348/-



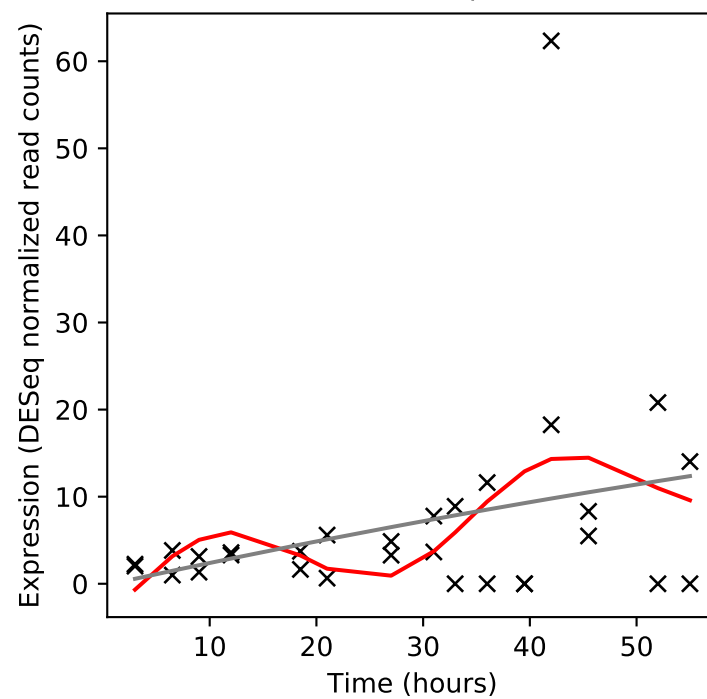
Rv3349c/-



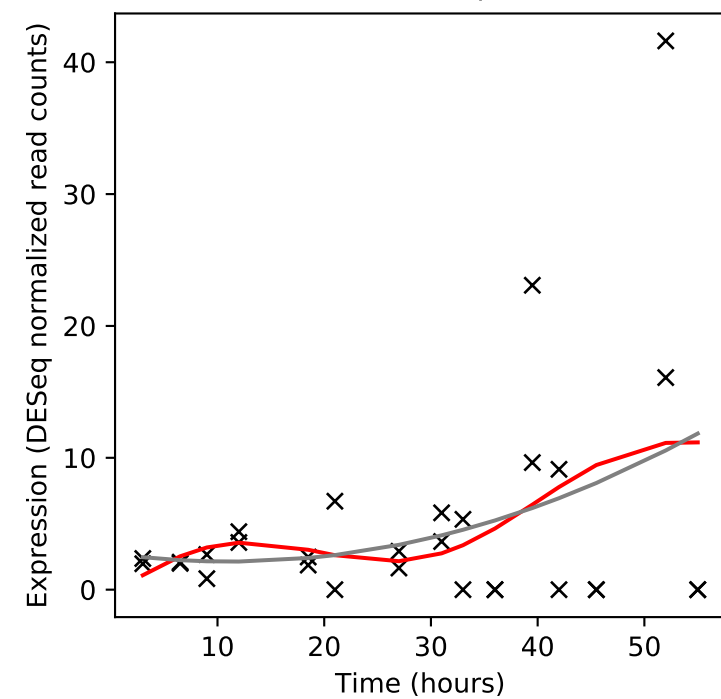
Rv3350c/PPE56



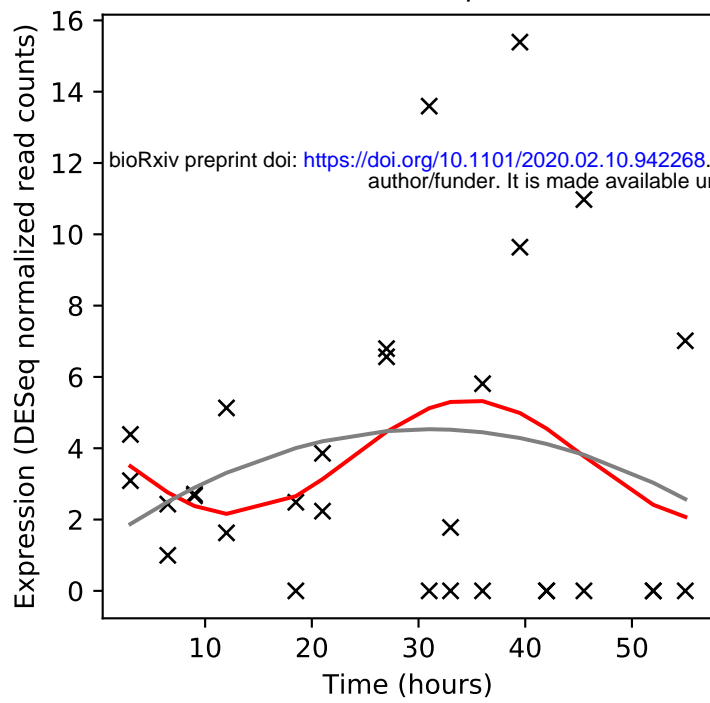
Rv3351c/-



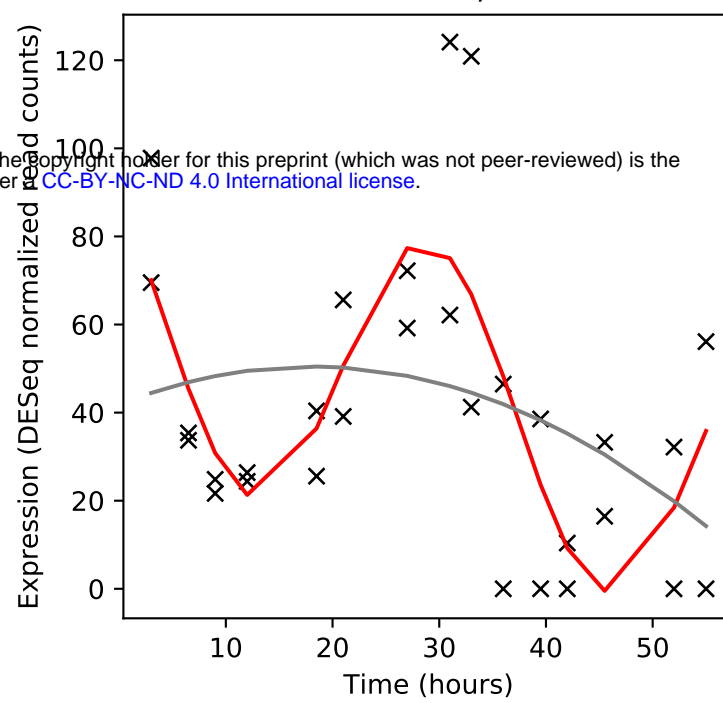
Rv3352c/-



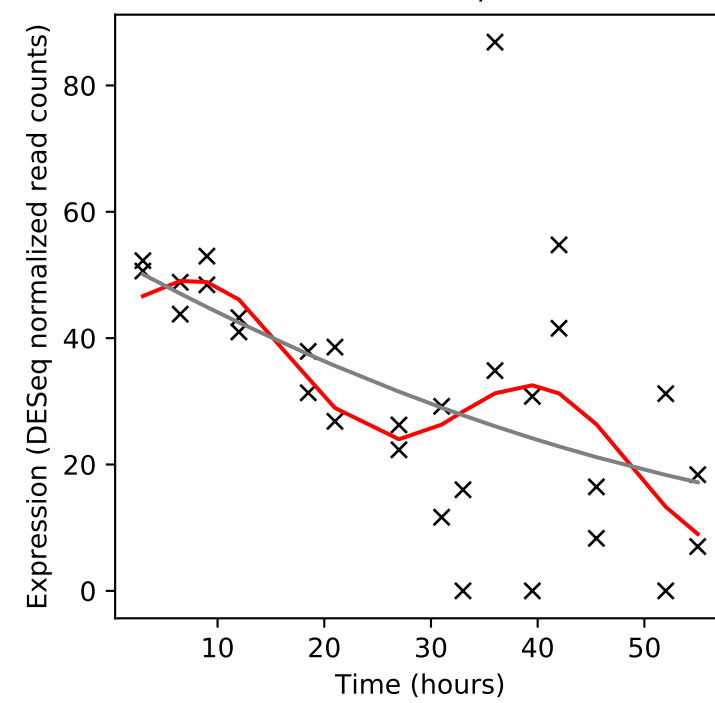
Rv3353c/-



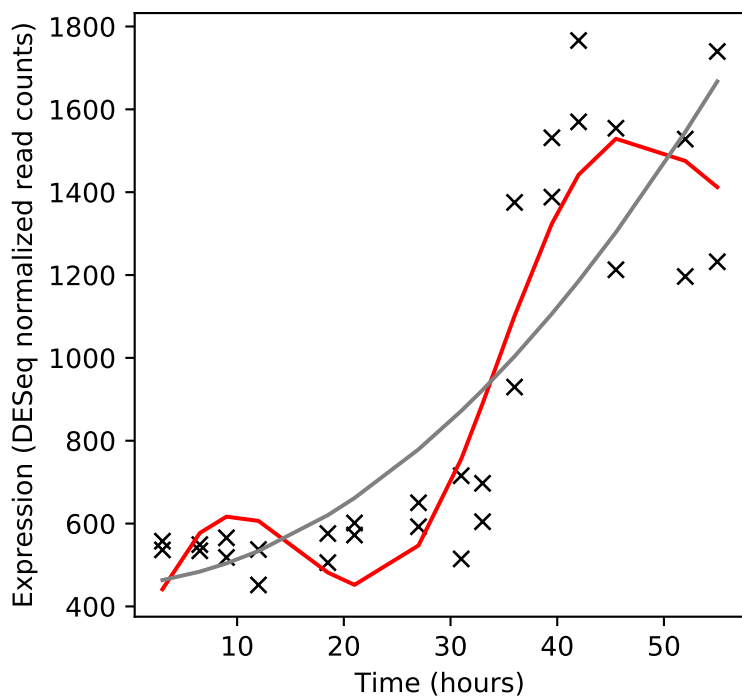
Rv3354/-



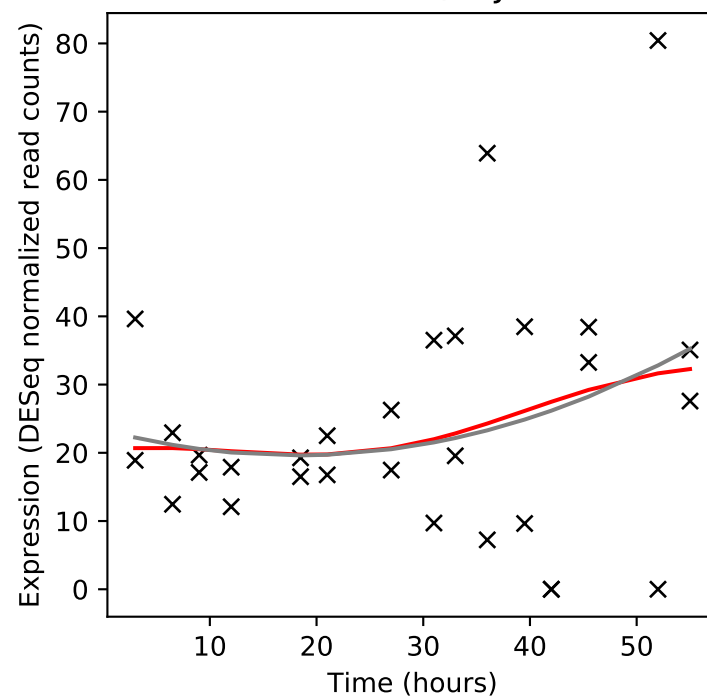
Rv3355c/-



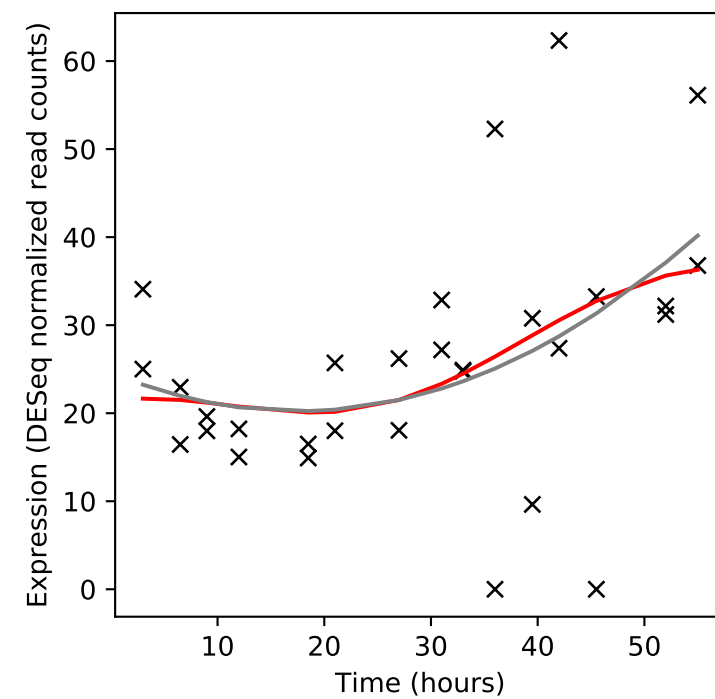
Rv3356c/fold



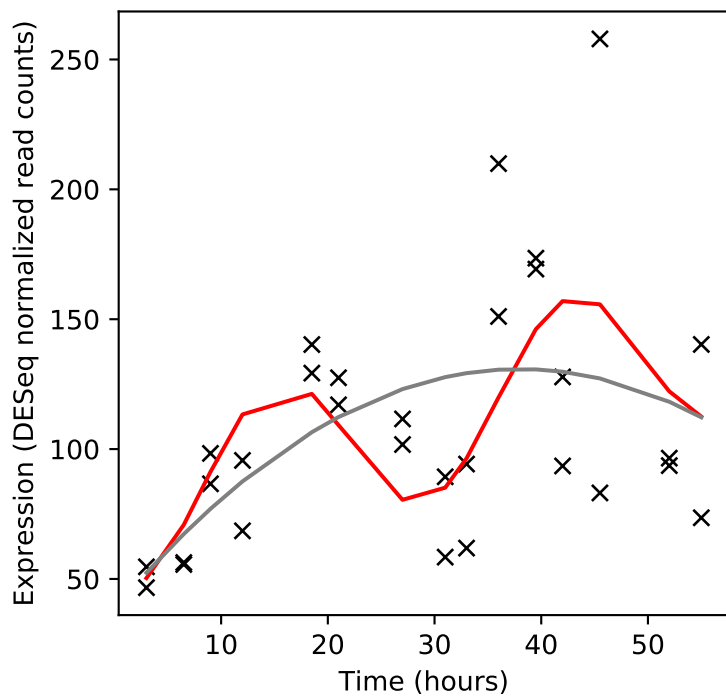
Rv3357/relJ



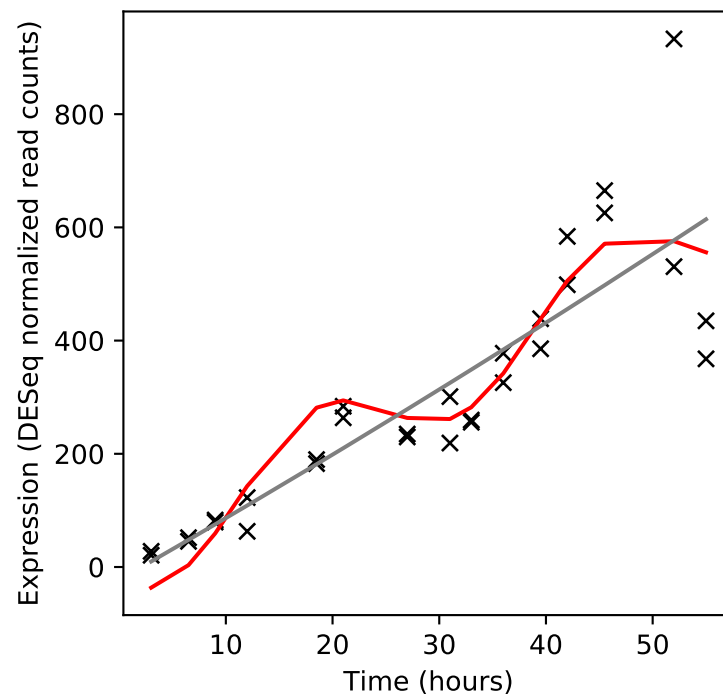
Rv3358/relK



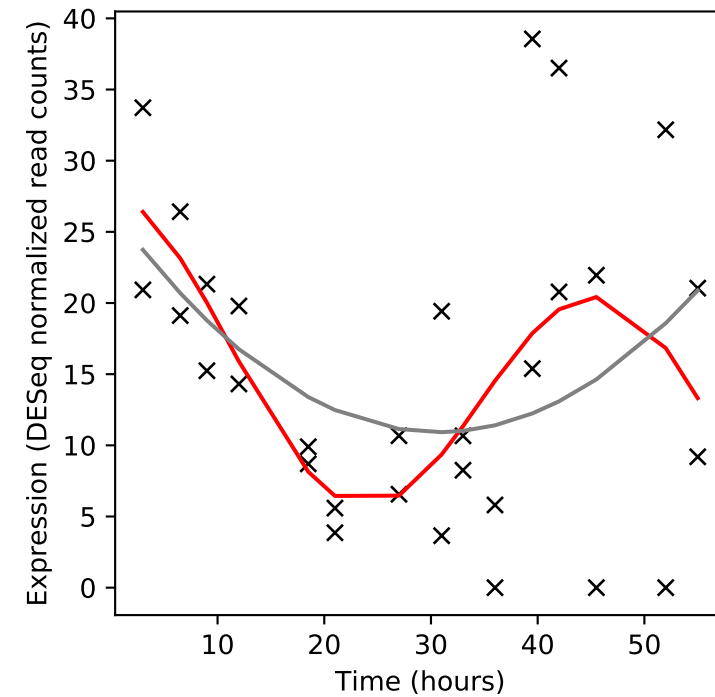
Rv3359/-



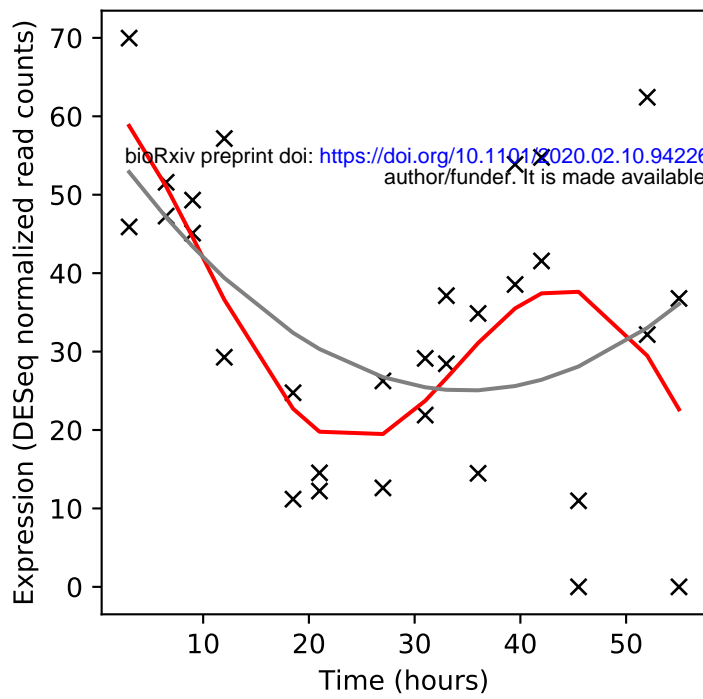
Rv3360/-



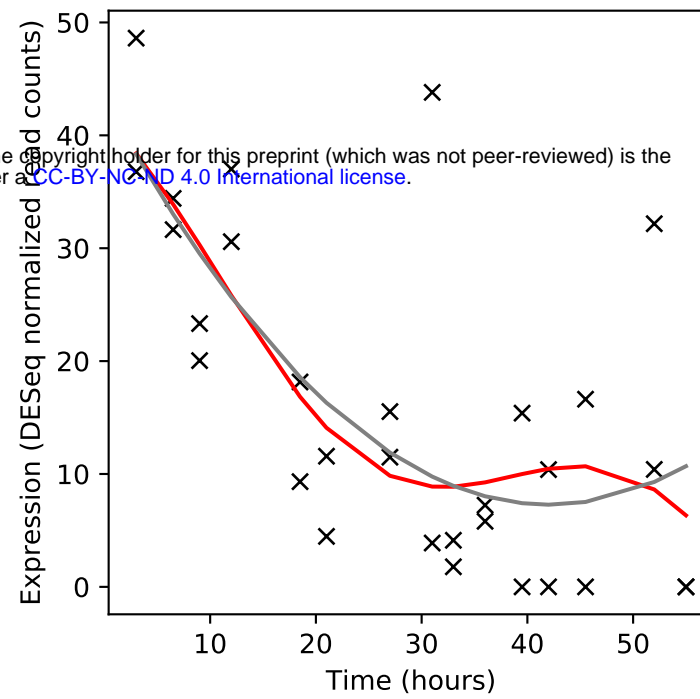
Rv3361c/-



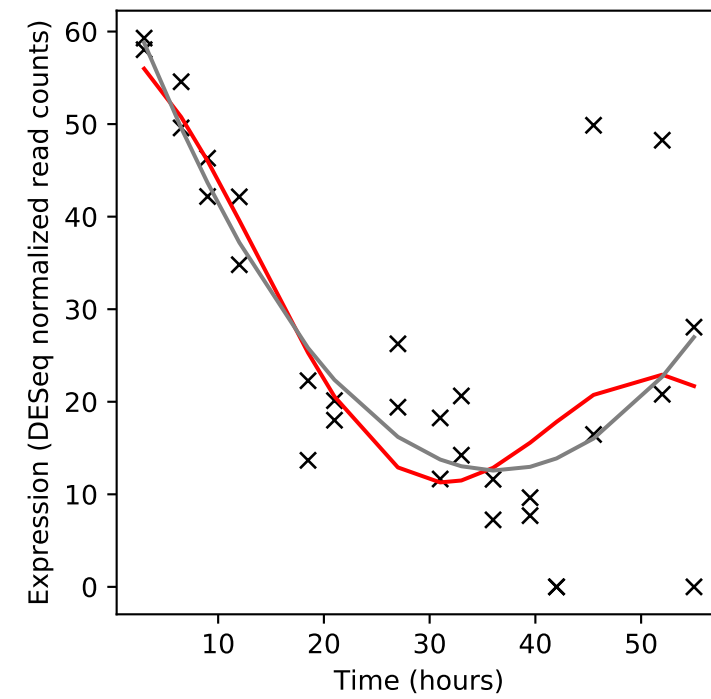
Rv3362c/-



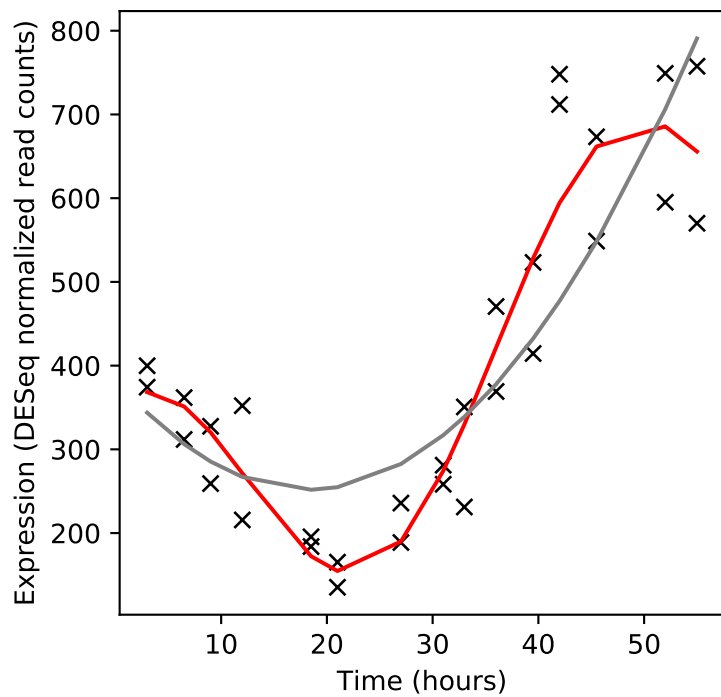
Rv3363c/-



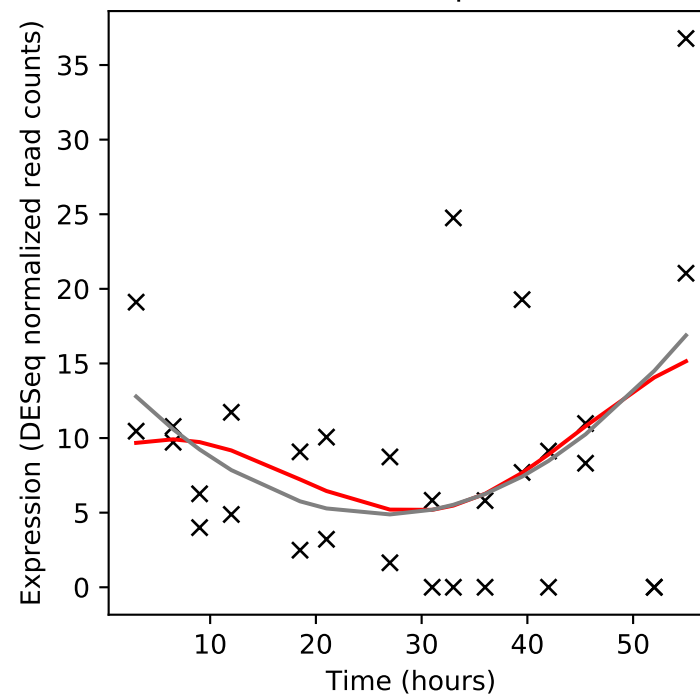
Rv3364c/-



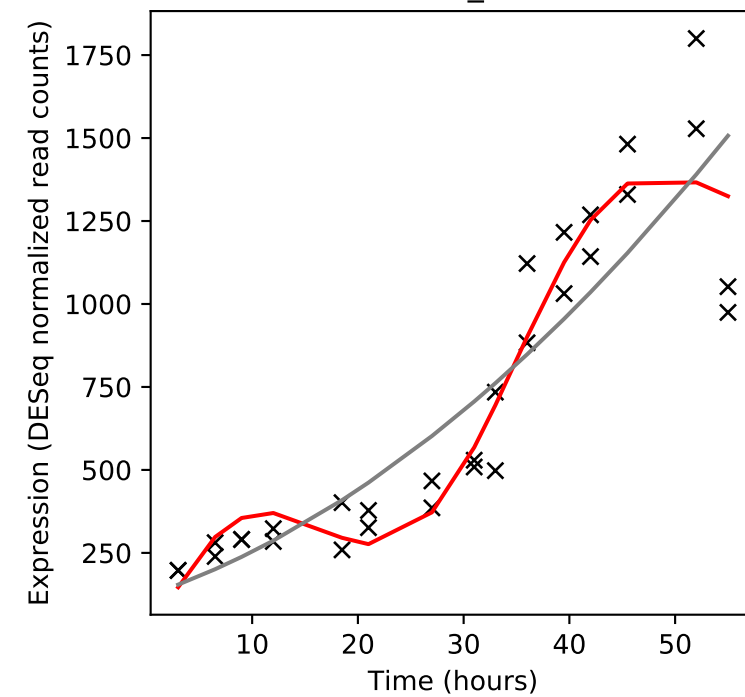
Rv3365c/-



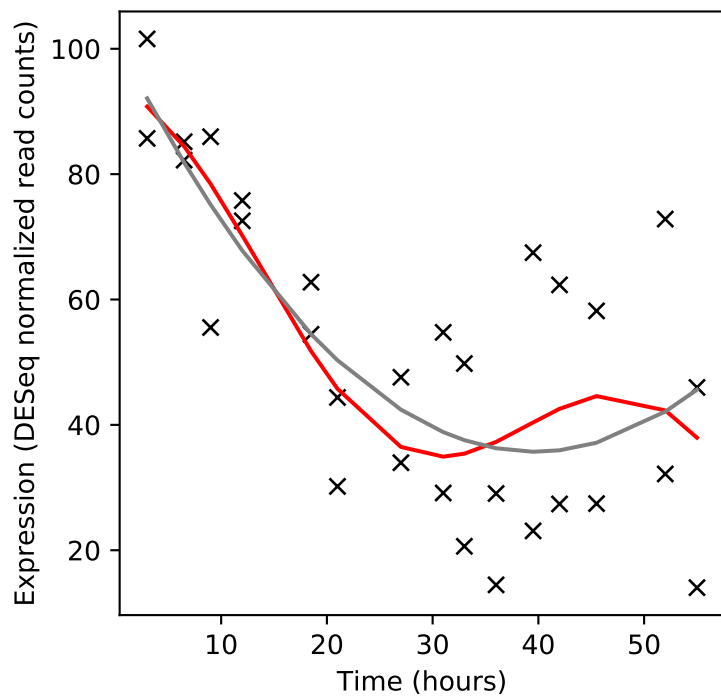
Rv3366/spoU



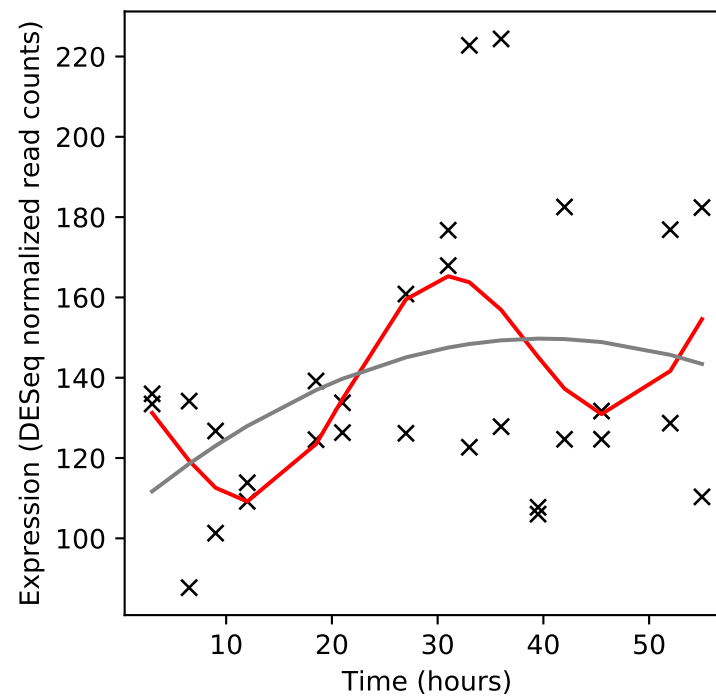
Rv3367/PE_PGRS51



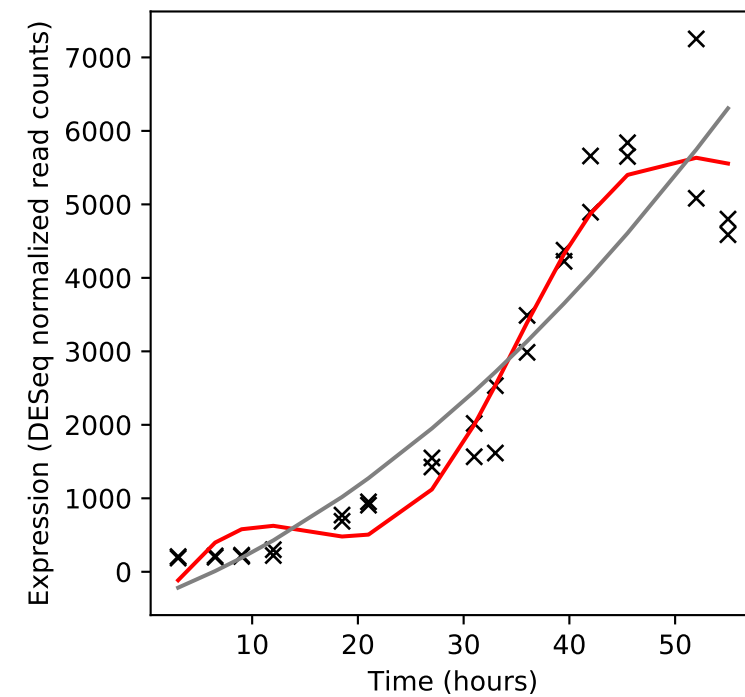
Rv3368c/-



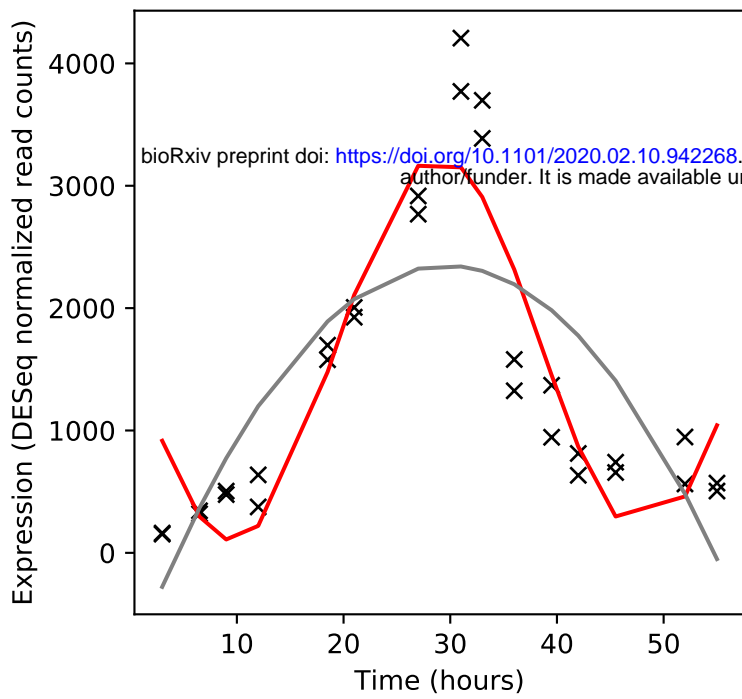
Rv3369/-



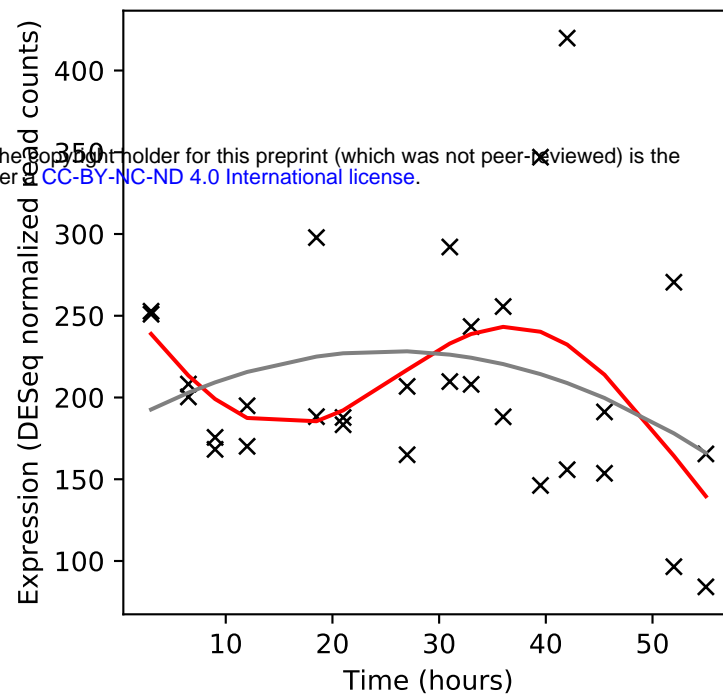
Rv3370c/dnaE2



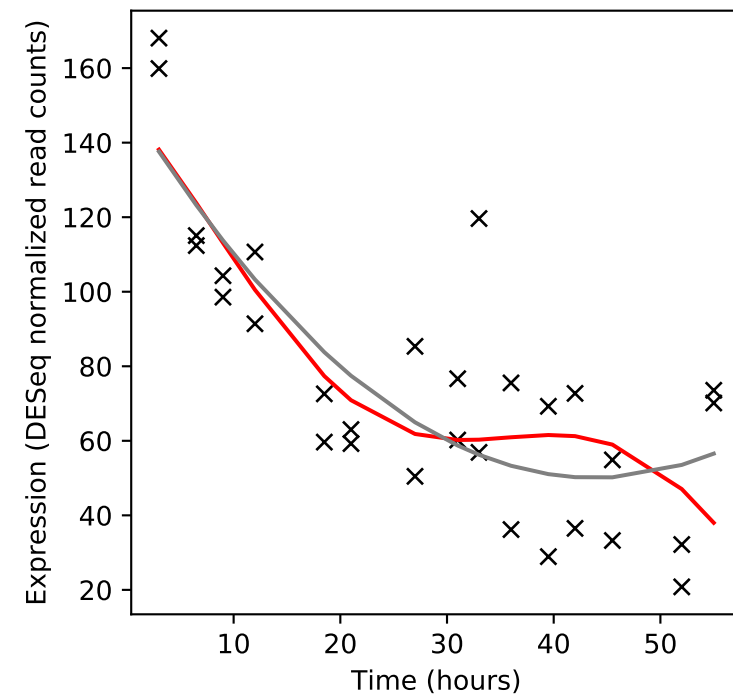
Rv3371/-



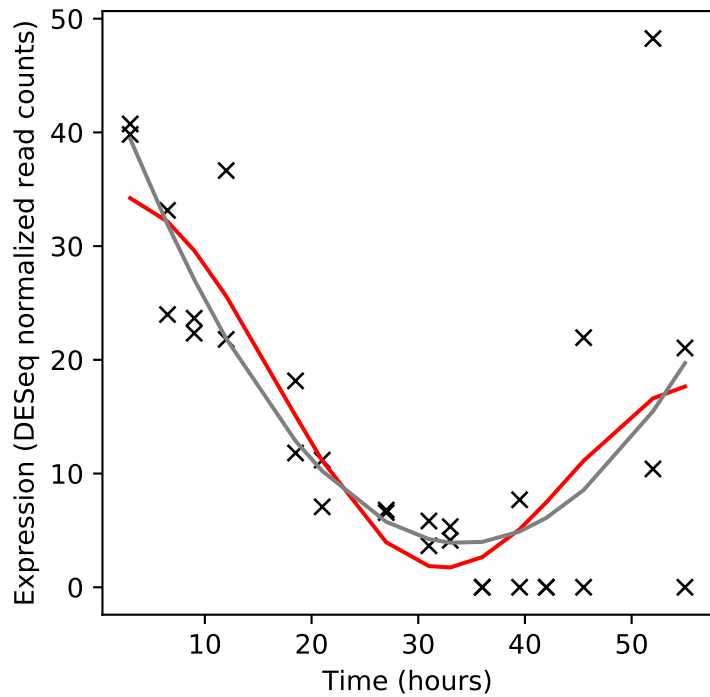
Rv3372/otsB2



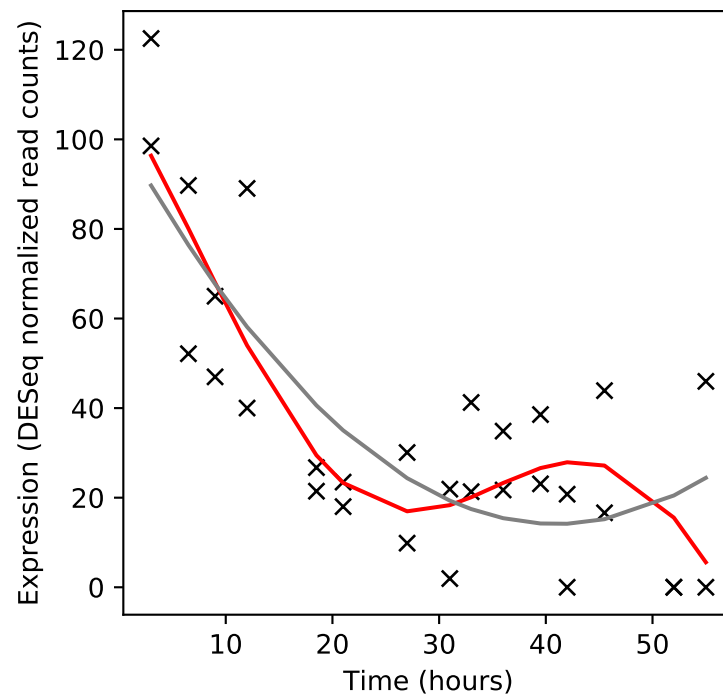
Rv3373/echA18



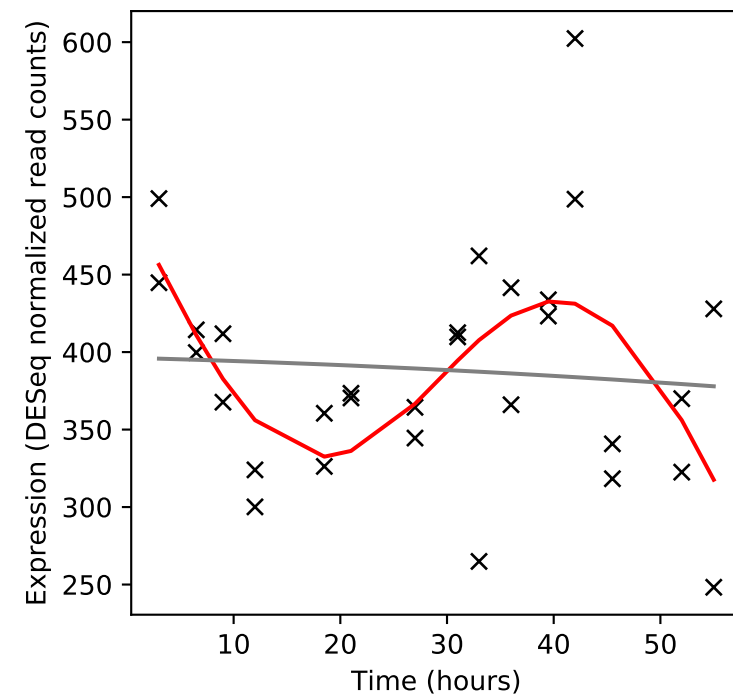
Rv3374/echA18.1



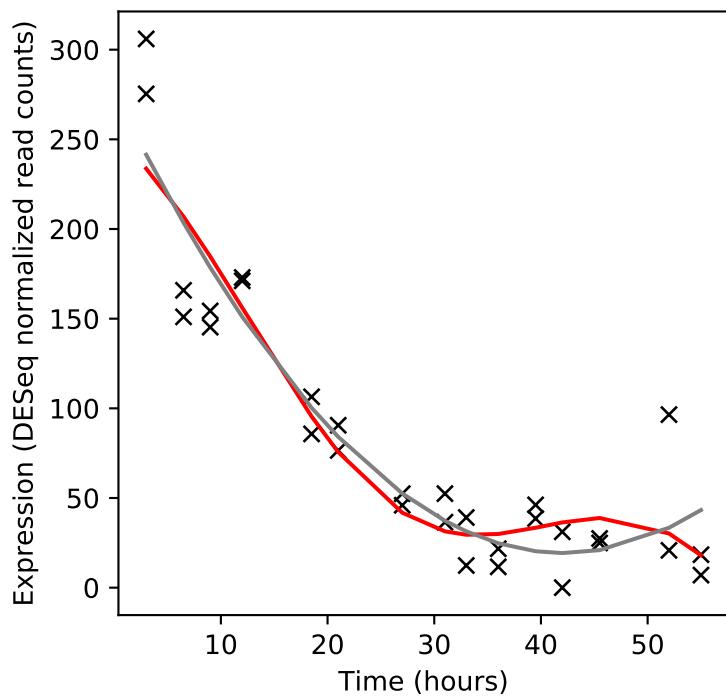
Rv3375/amiD



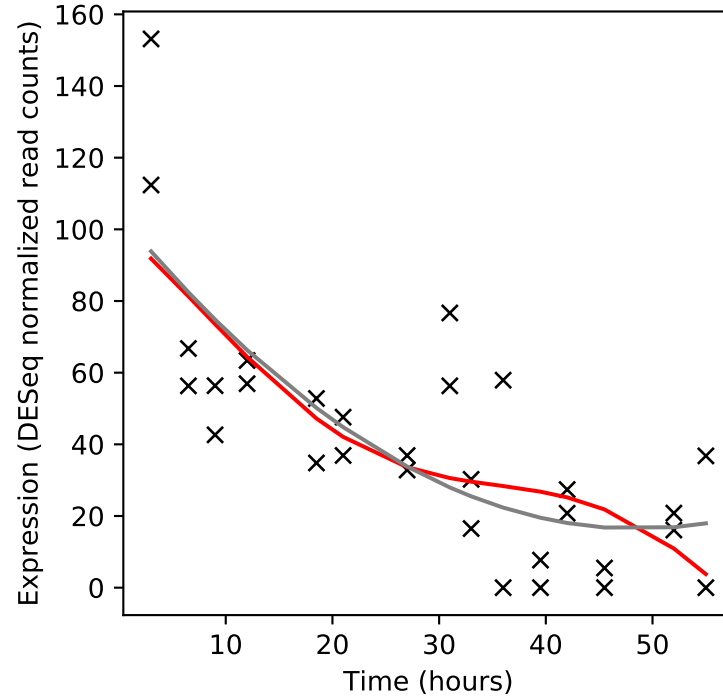
Rv3376/-



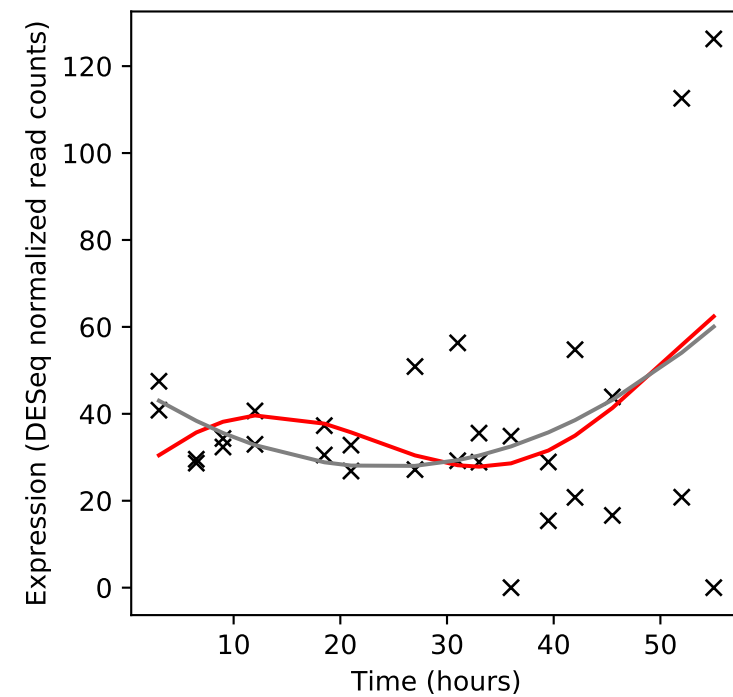
Rv3377c/-



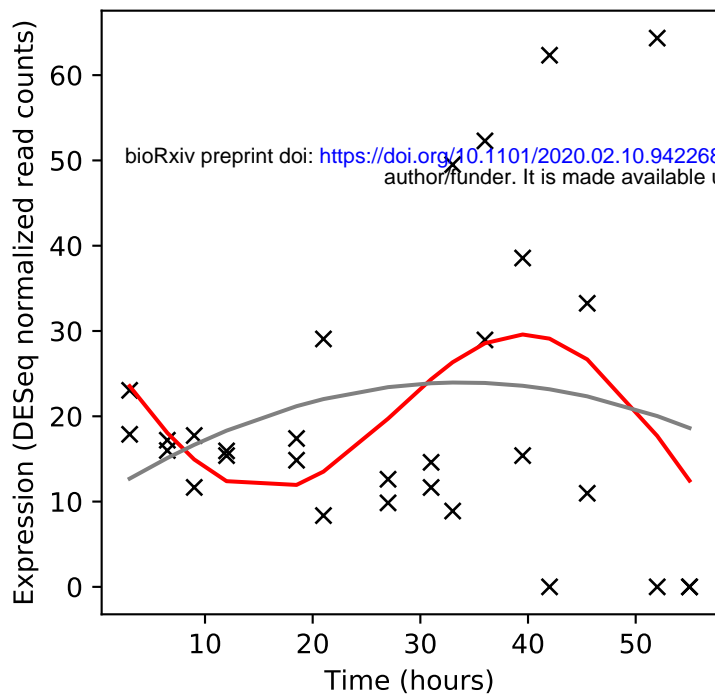
Rv3378c/-



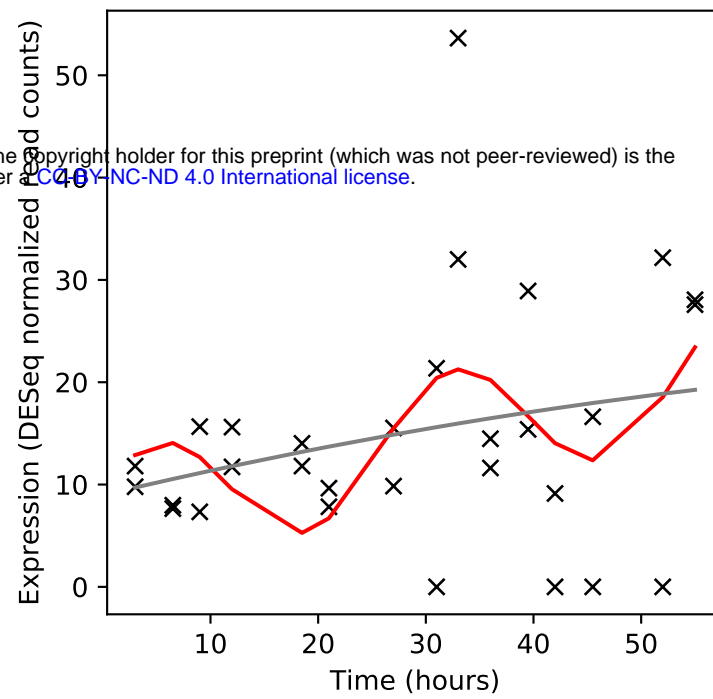
Rv3379c/dxs2



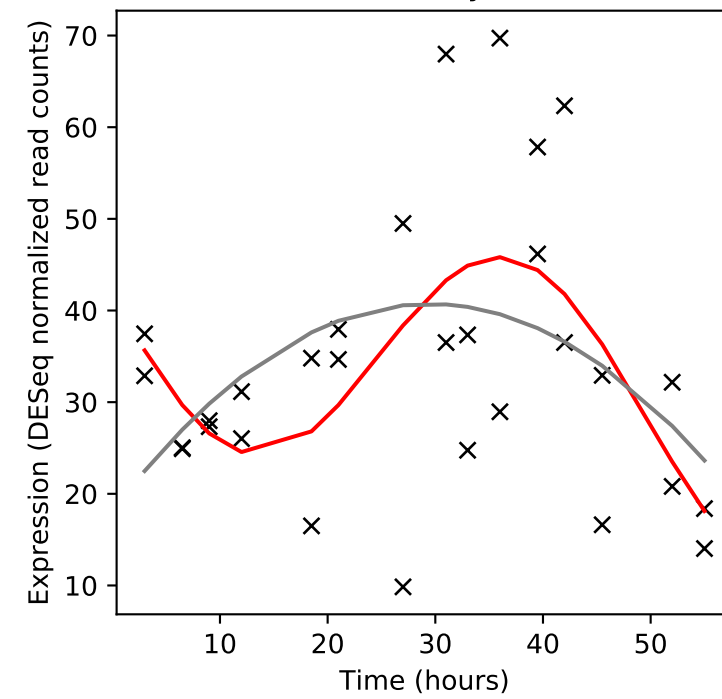
Rv3380c/-



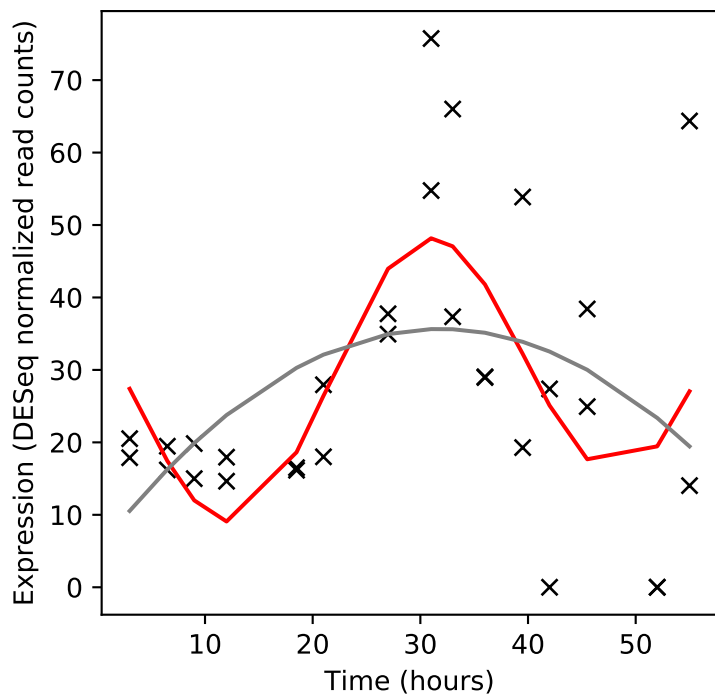
Rv3381c/-



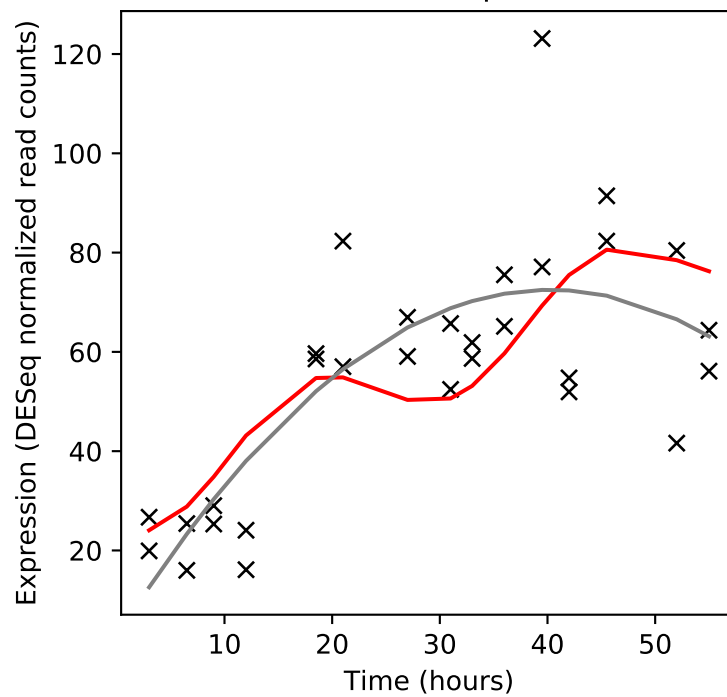
Rv3382c/lytB1



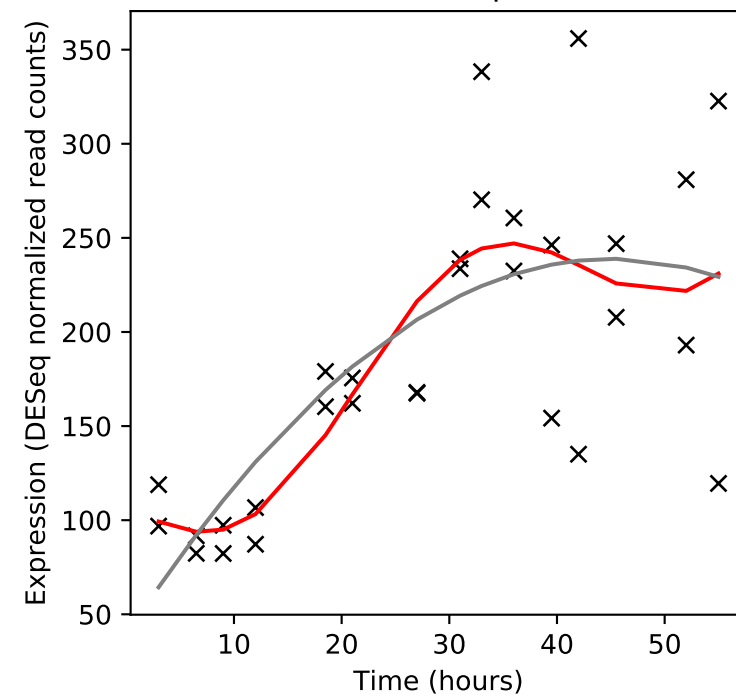
Rv3383c/idsB



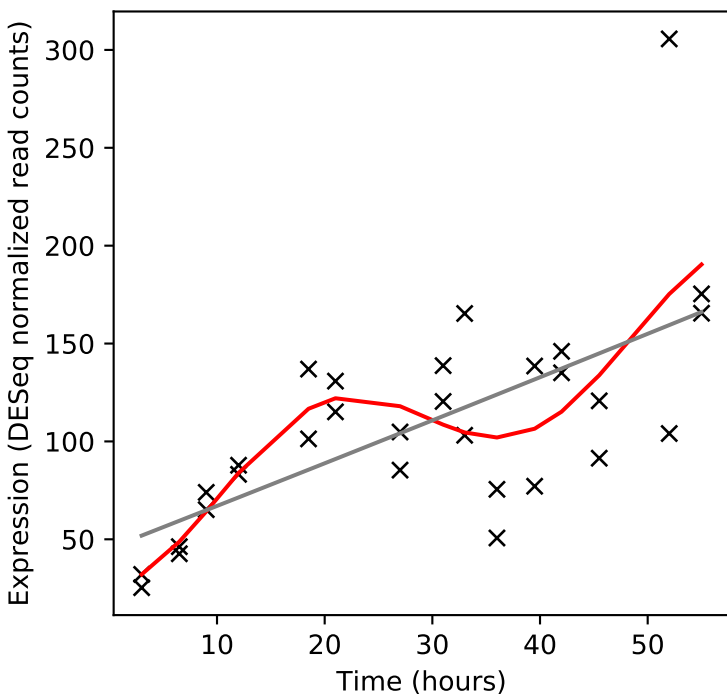
Rv3384c/vapC46



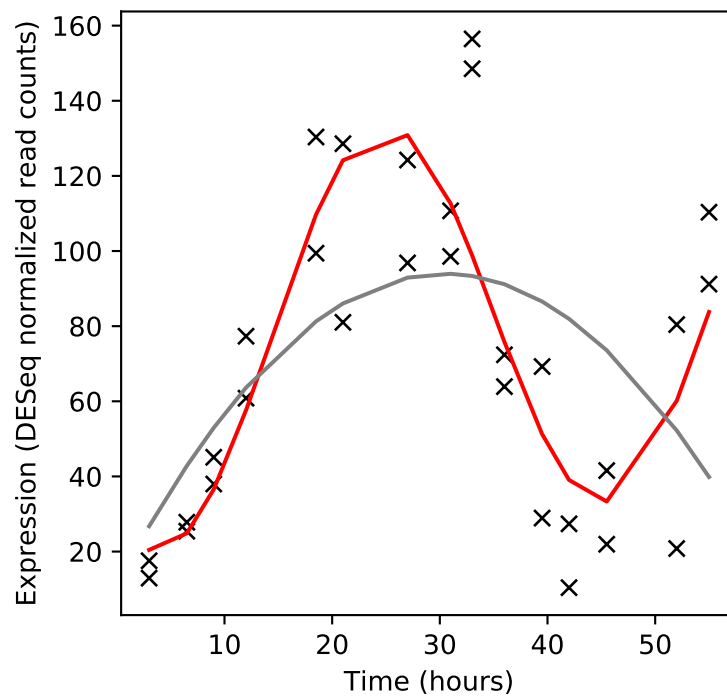
Rv3385c/vapB46



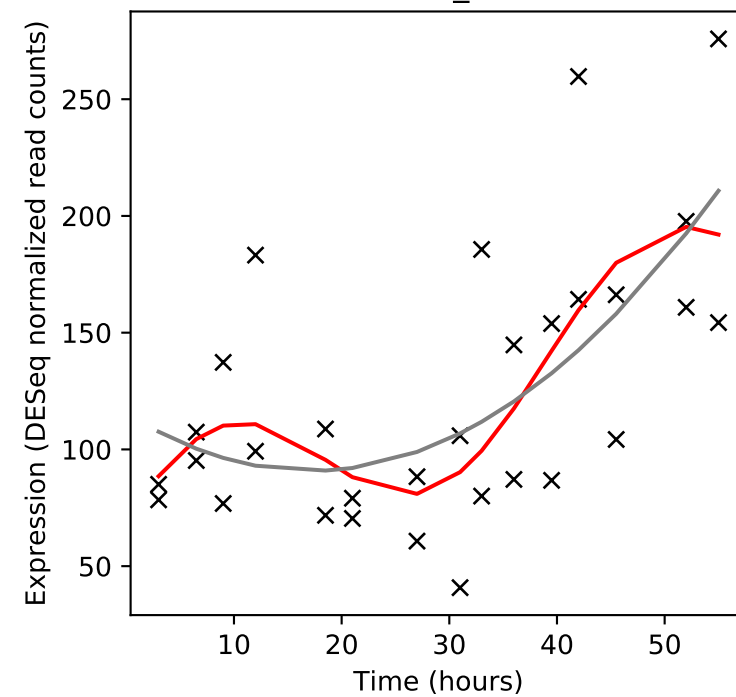
Rv3386/-



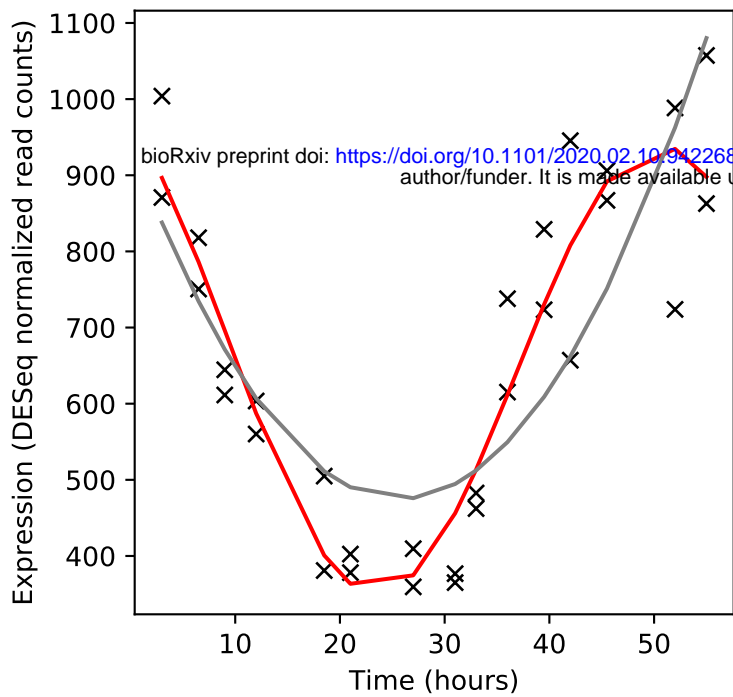
Rv3387/-



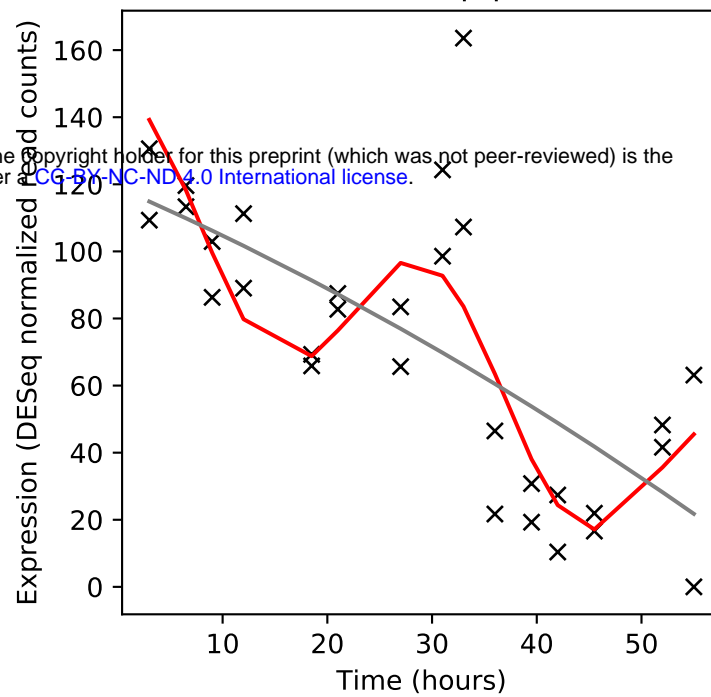
Rv3388/PE_PGRS52



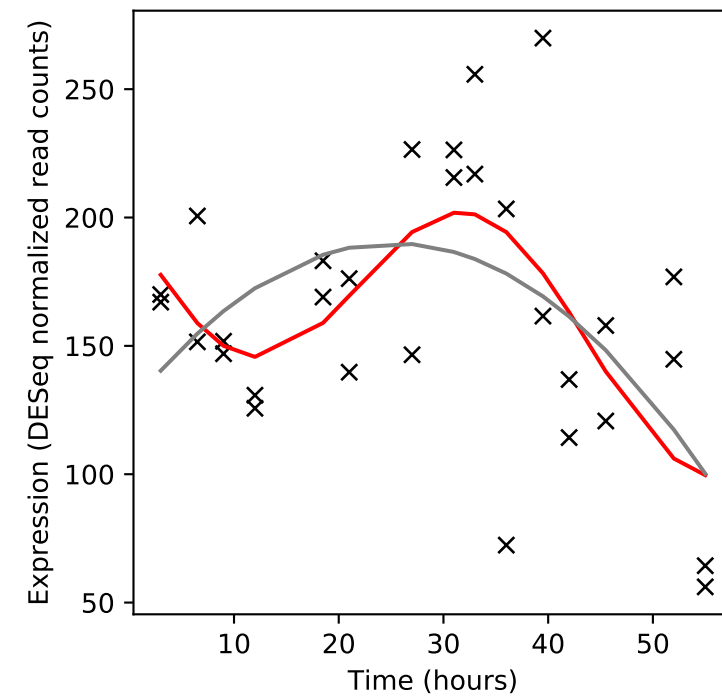
Rv3389c/htdY



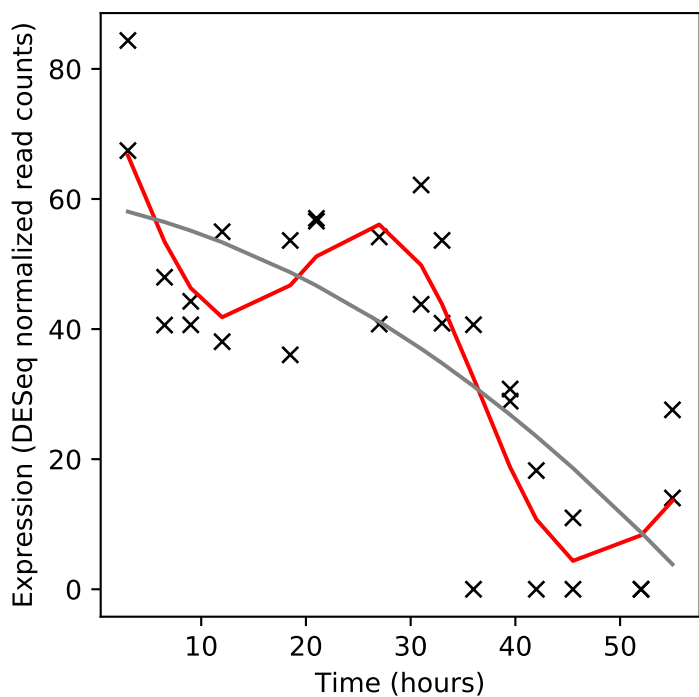
Rv3390/lpqD



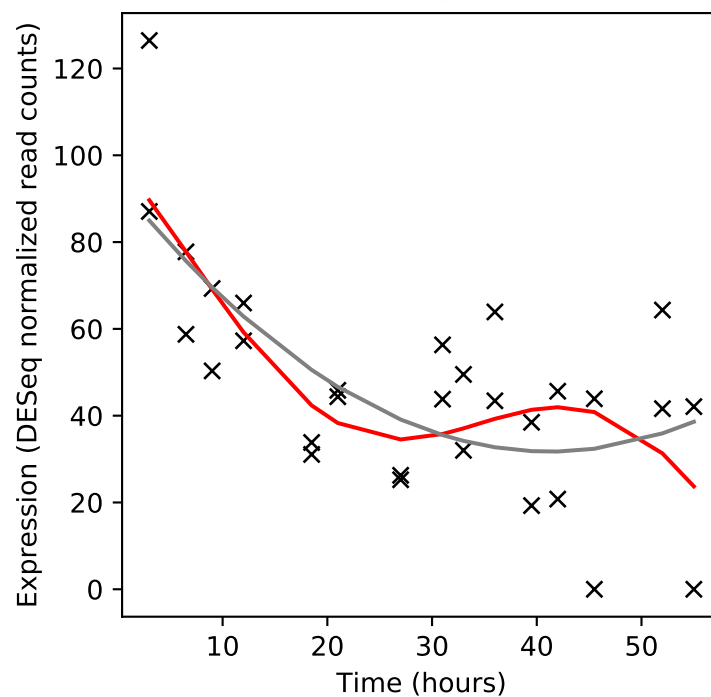
Rv3391/acrA1



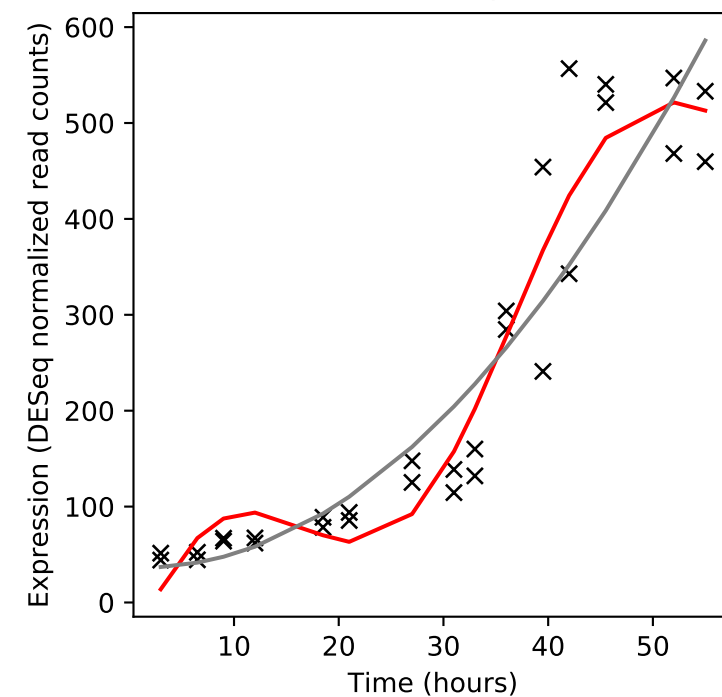
Rv3392c/cmaA1



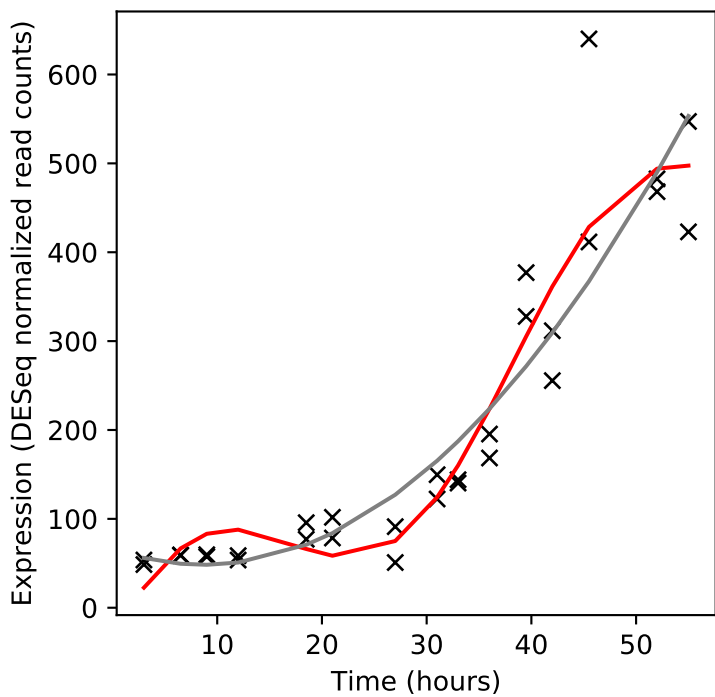
Rv3393/iunH



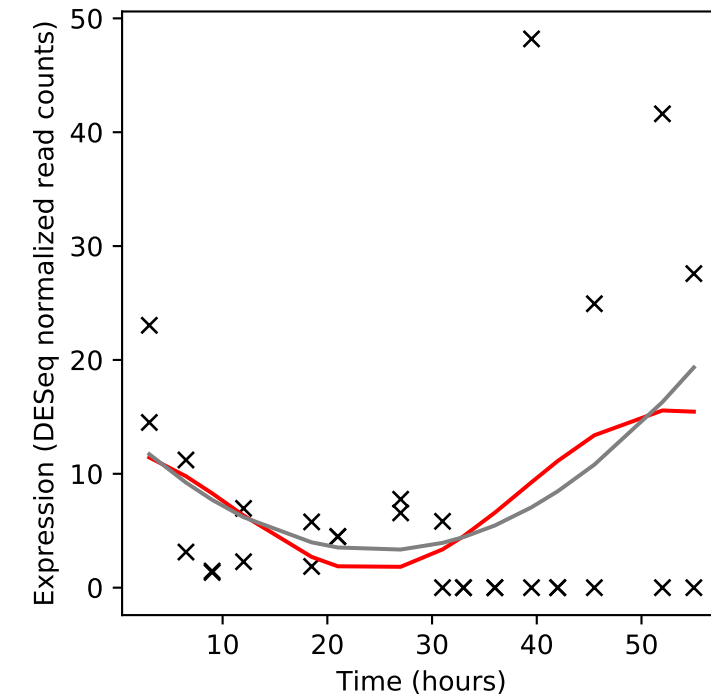
Rv3394c/-



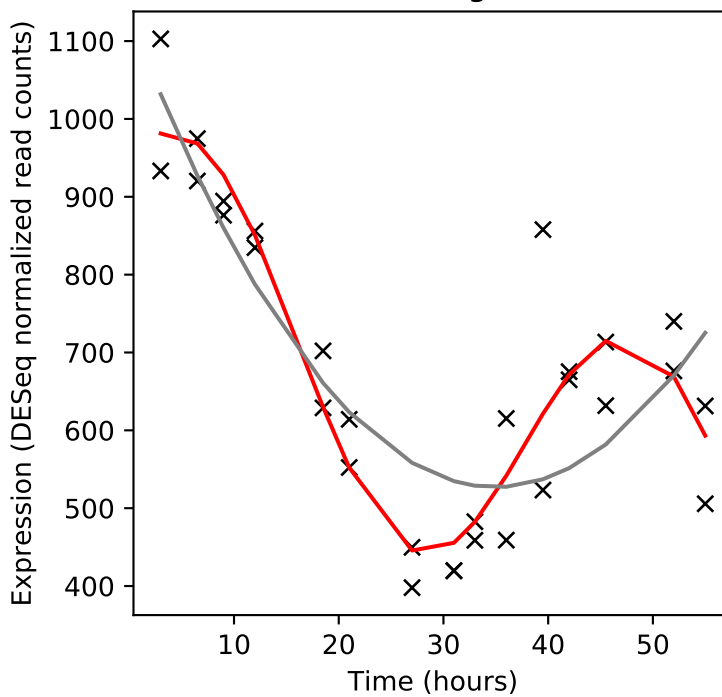
Rv3395c/-



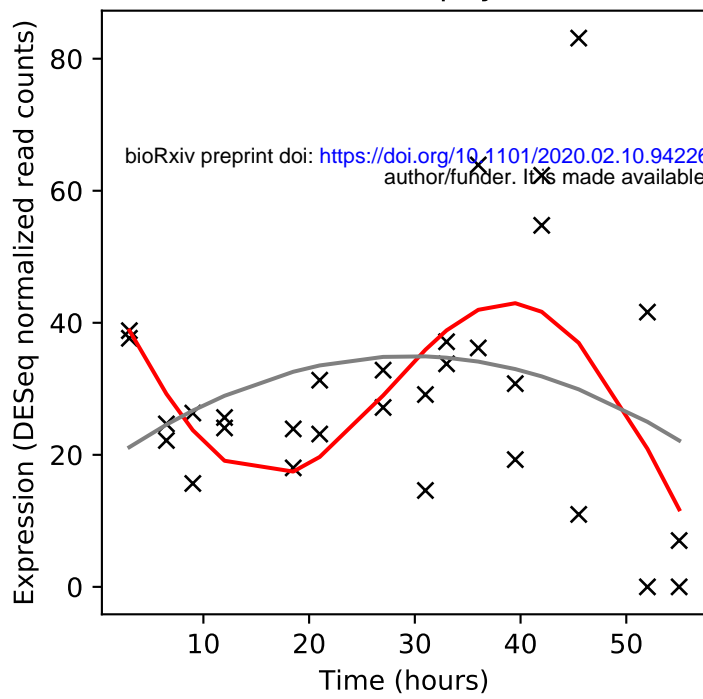
Rv3395A/-



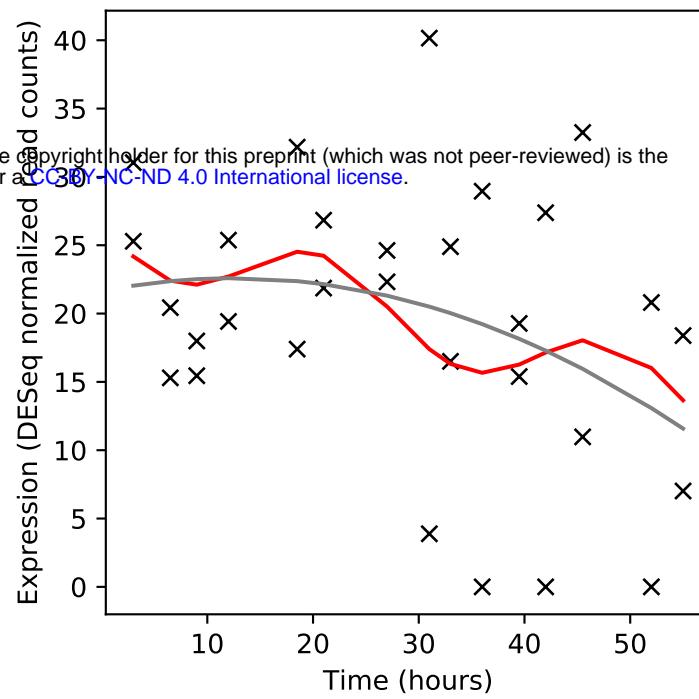
Rv3396c/guaA



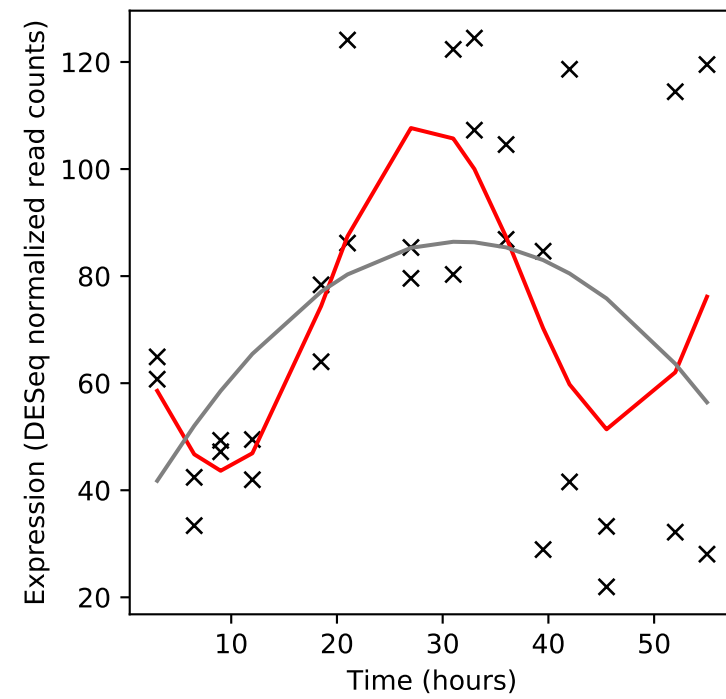
Rv3397c/phyA



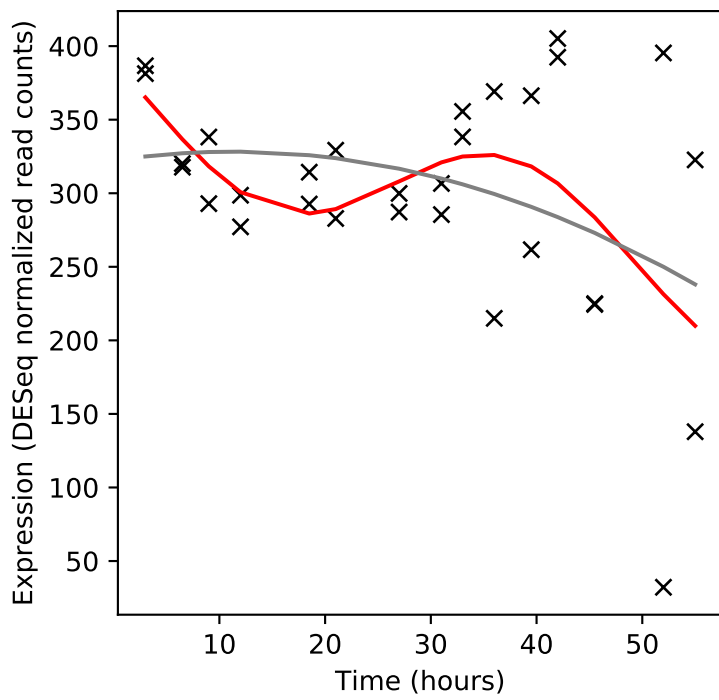
Rv3398c/idsA1



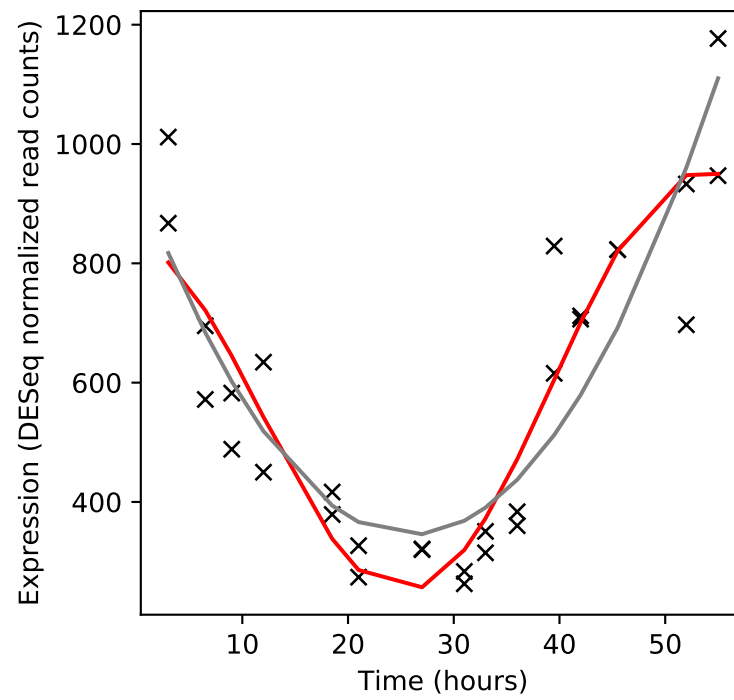
Rv3399c/-



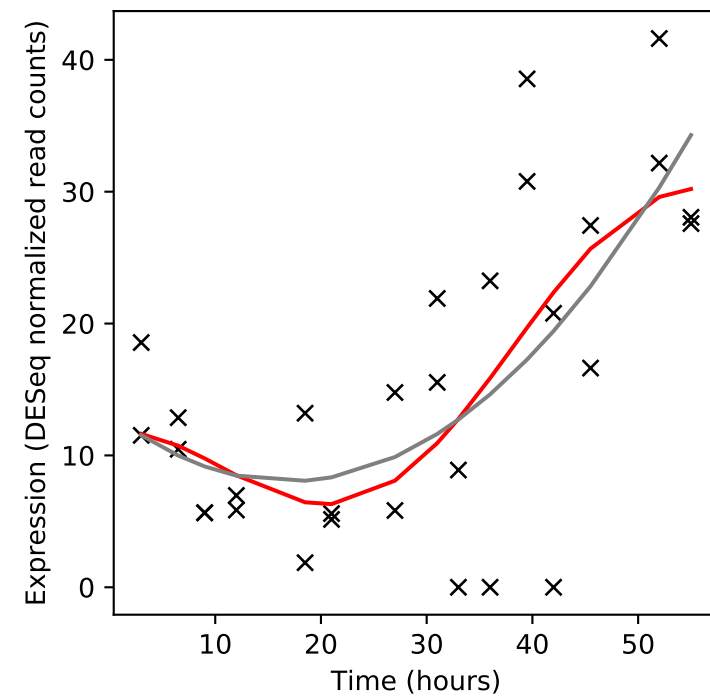
Rv3400c/-



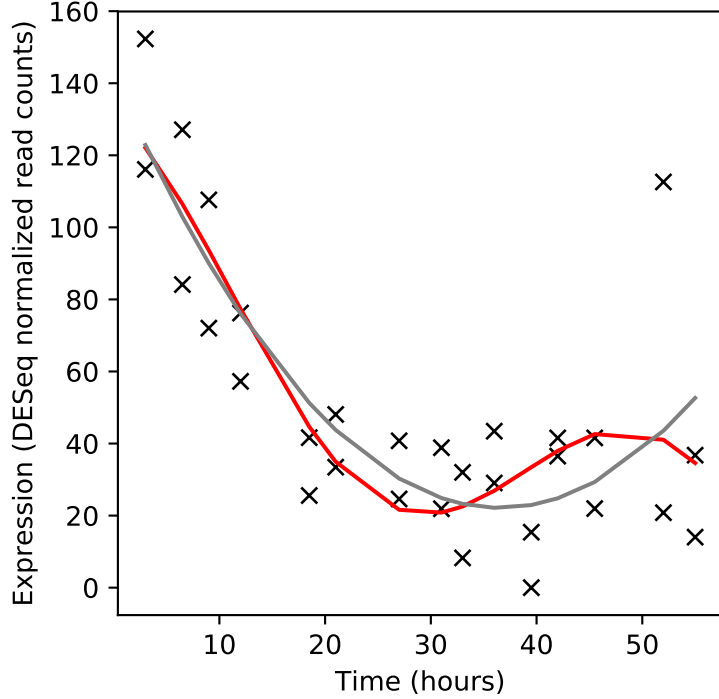
Rv3401c/-



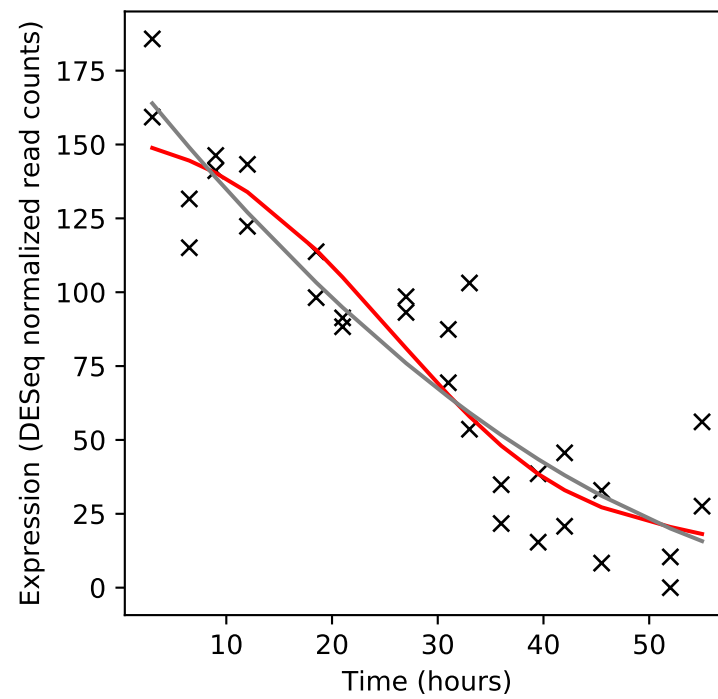
Rv3402c/-



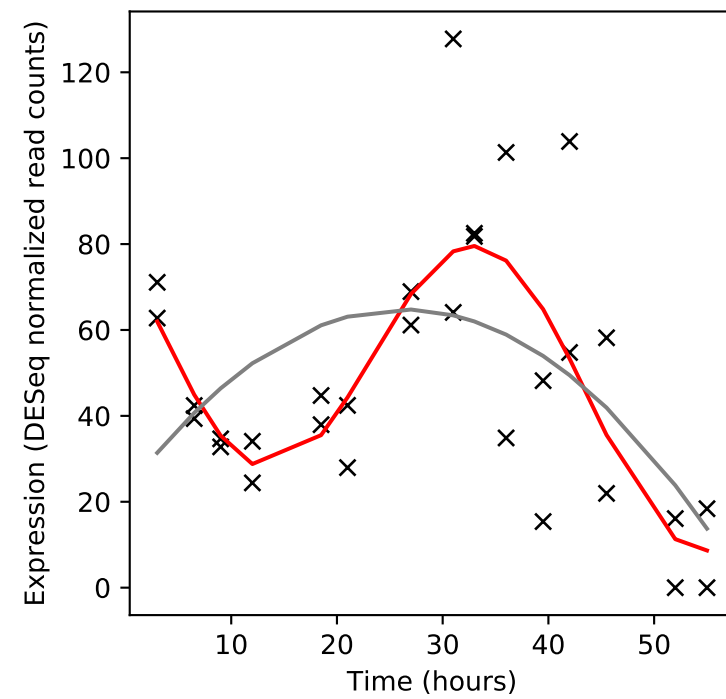
Rv3403c/-



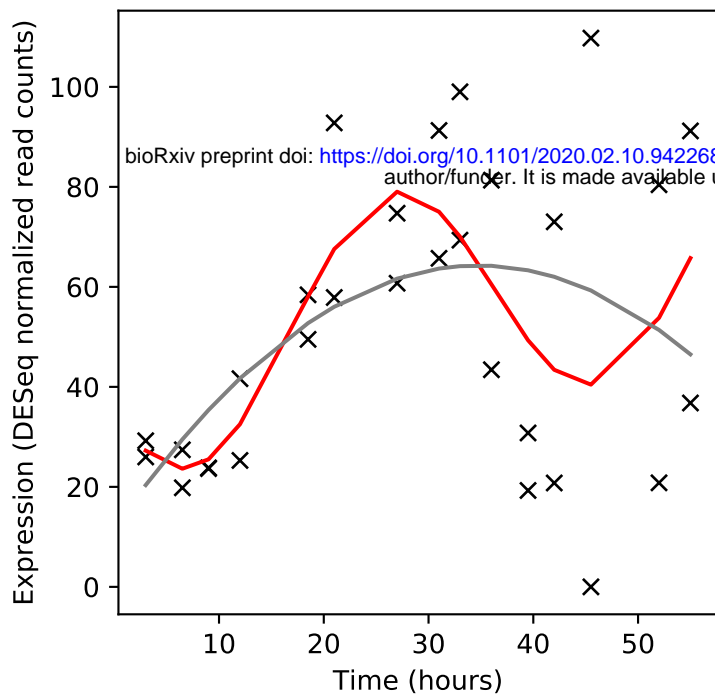
Rv3404c/-



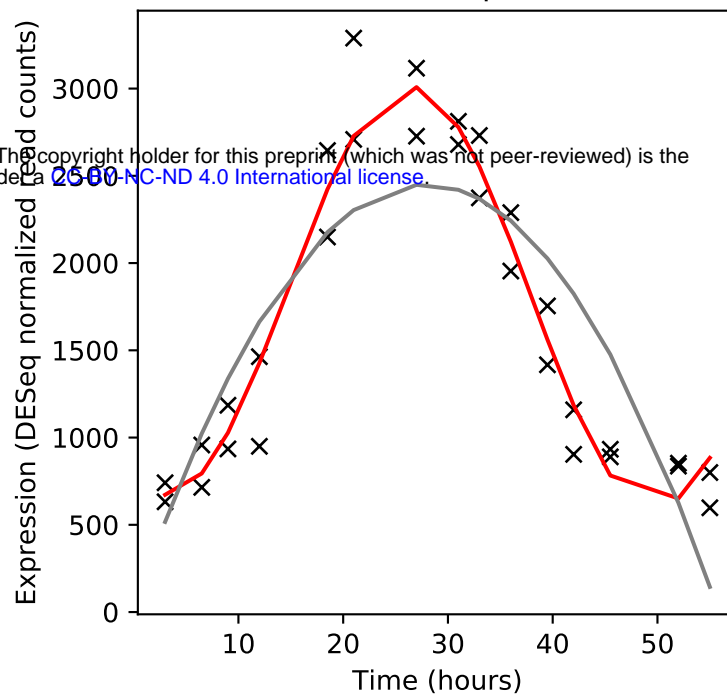
Rv3405c/-



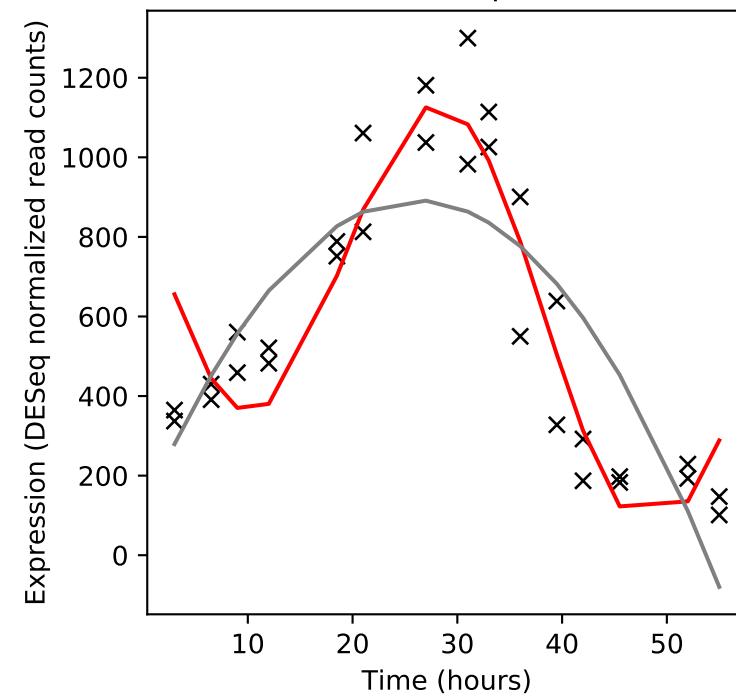
Rv3406/-



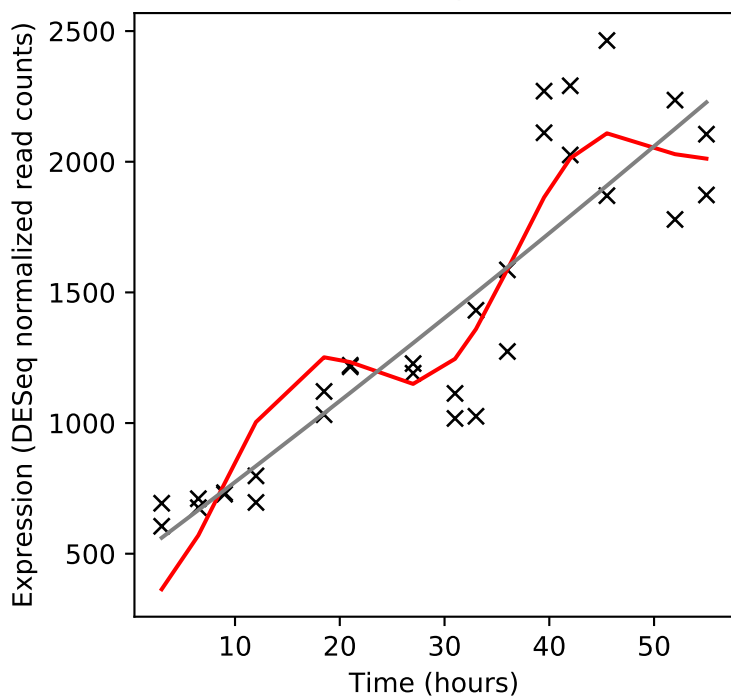
Rv3407/vapB47



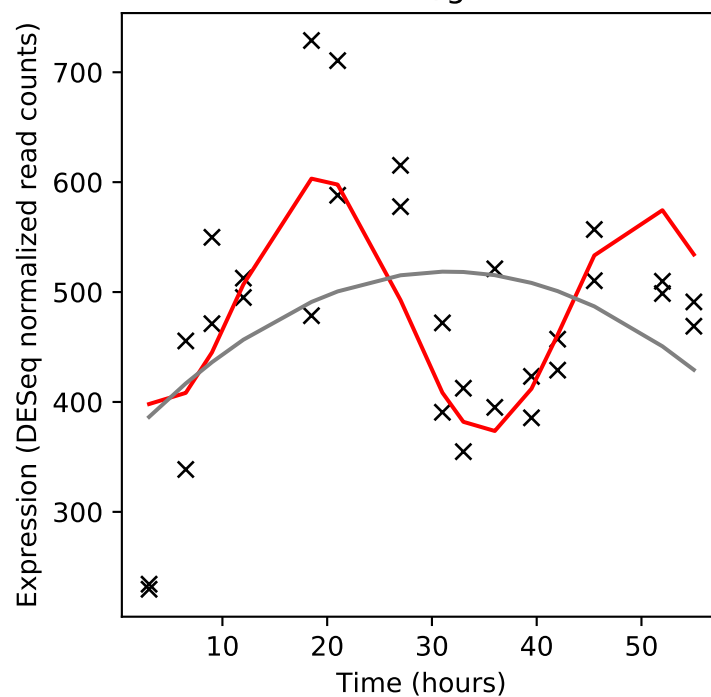
Rv3408/vapC47



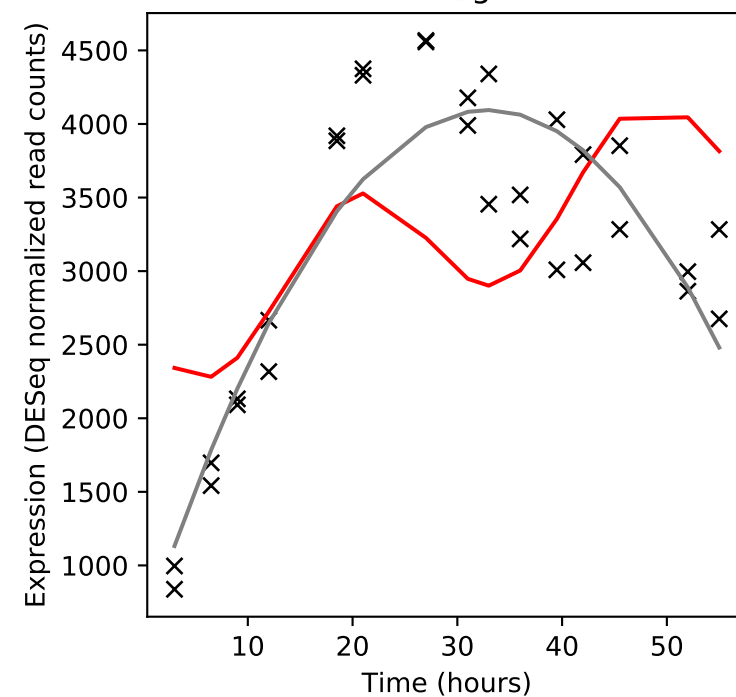
Rv3409c/choD



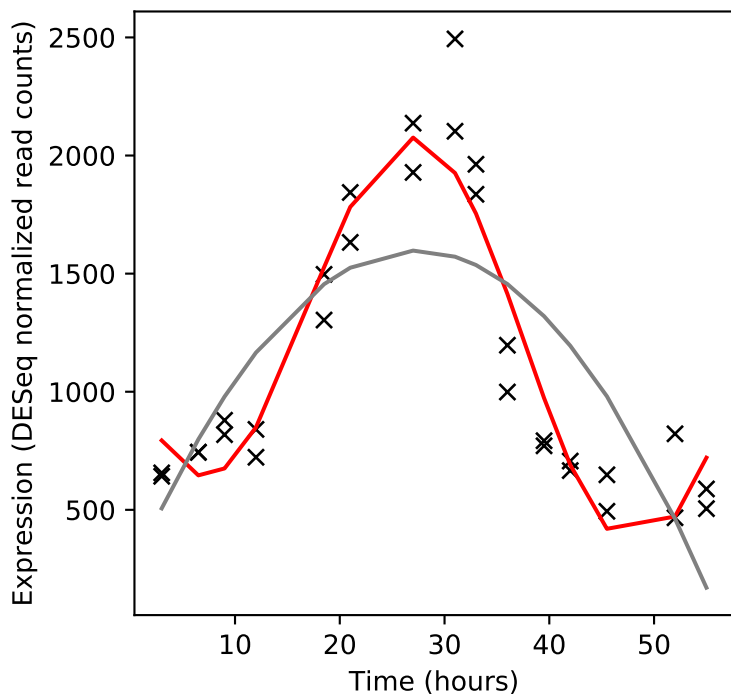
Rv3410c/guaB3



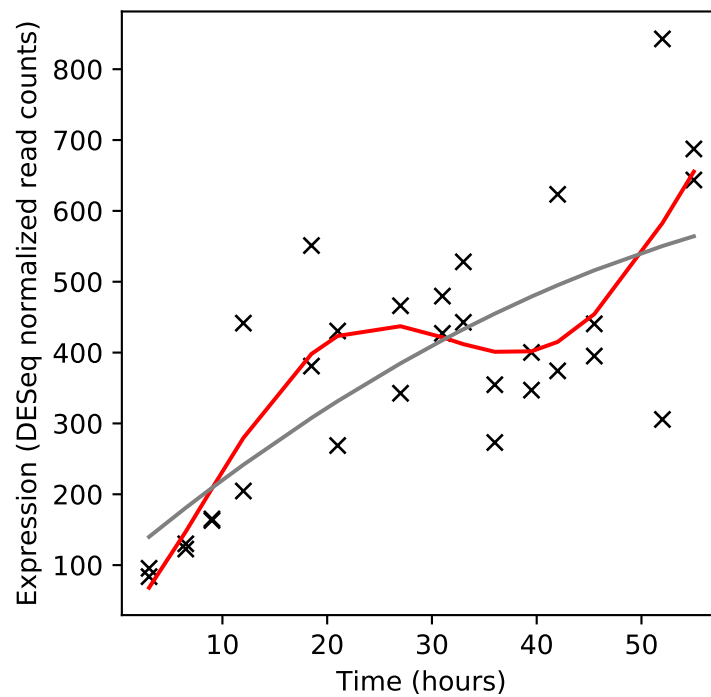
Rv3411c/guaB2



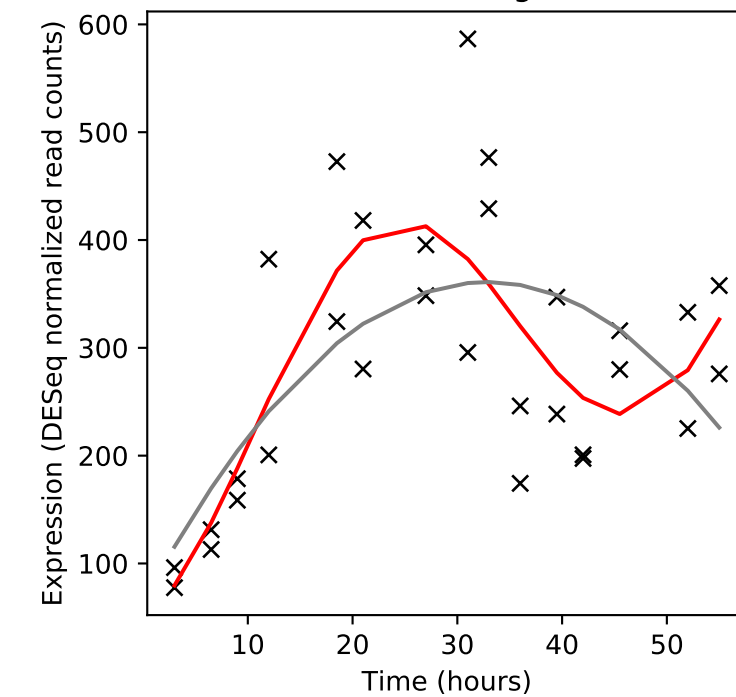
Rv3412/-



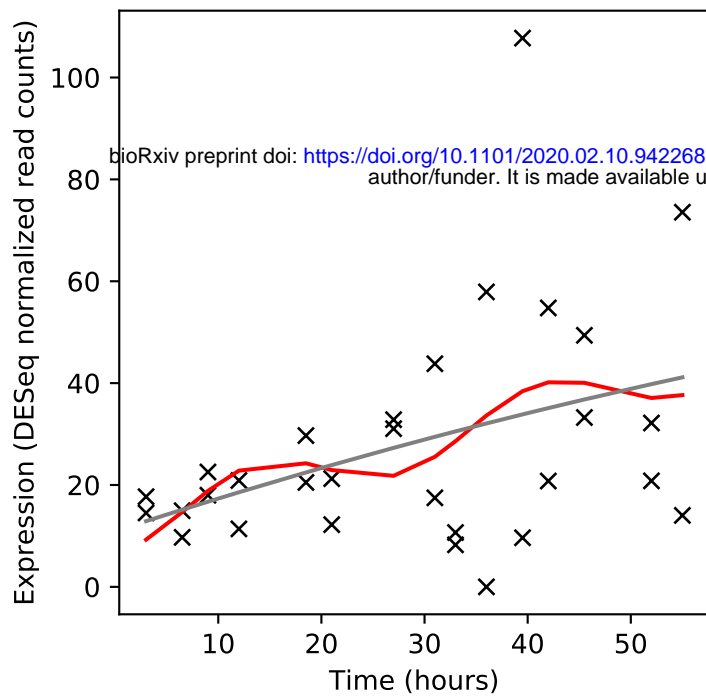
Rv3413c/-



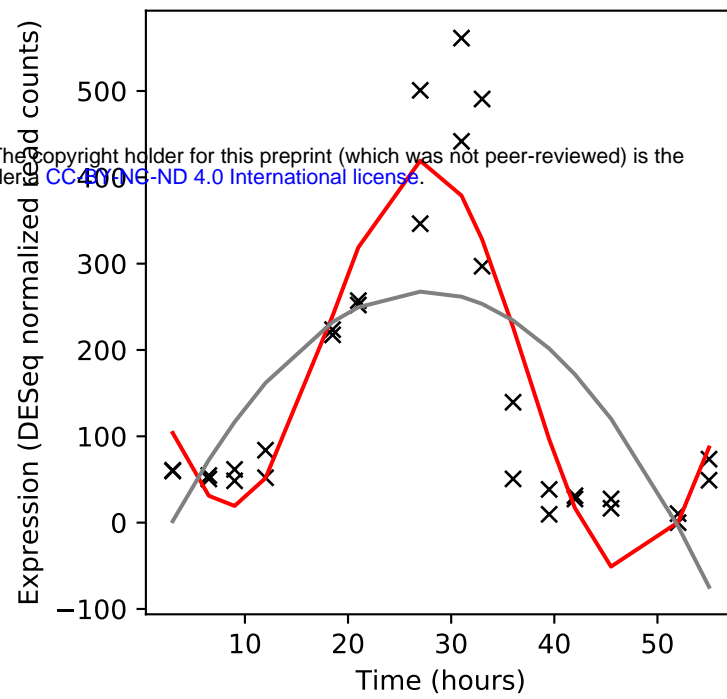
Rv3414c/sigD



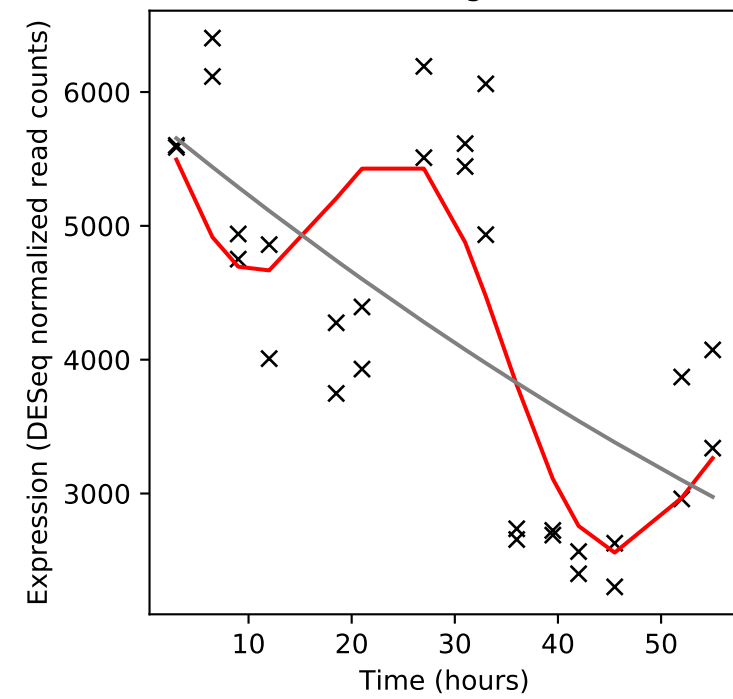
Rv3415c/-



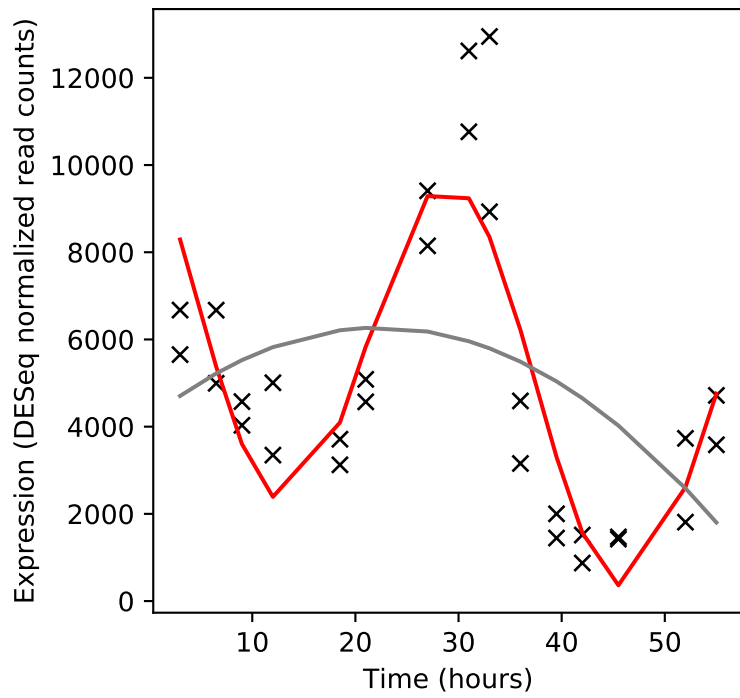
Rv3416/whiB3



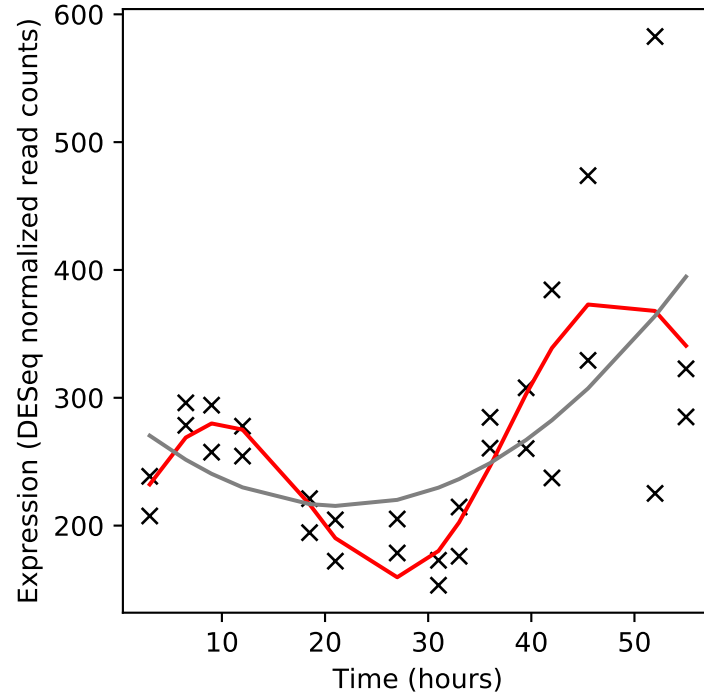
Rv3417c/groEL1



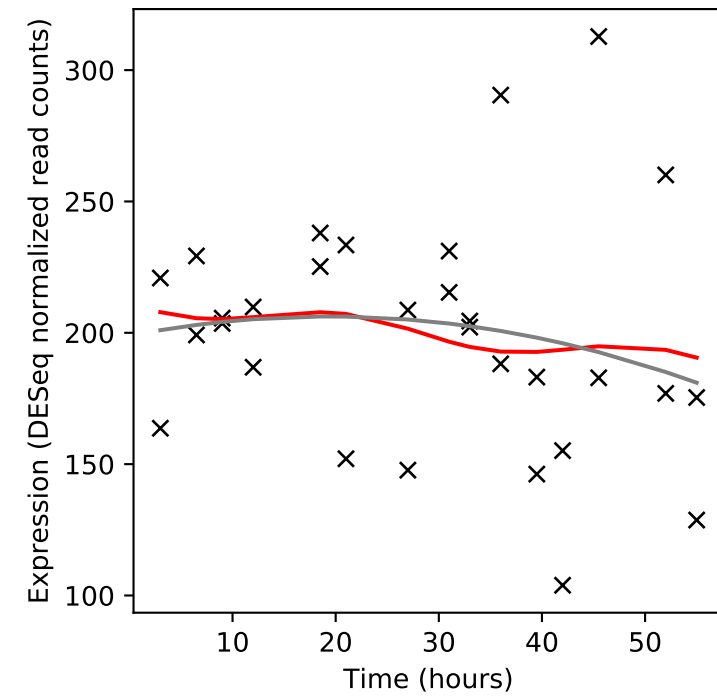
Rv3418c/groES



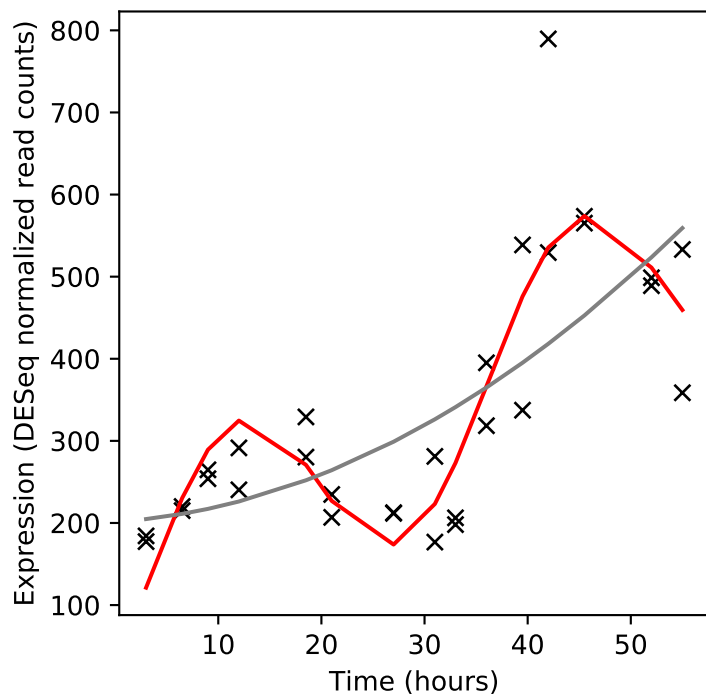
Rv3419c/gcp



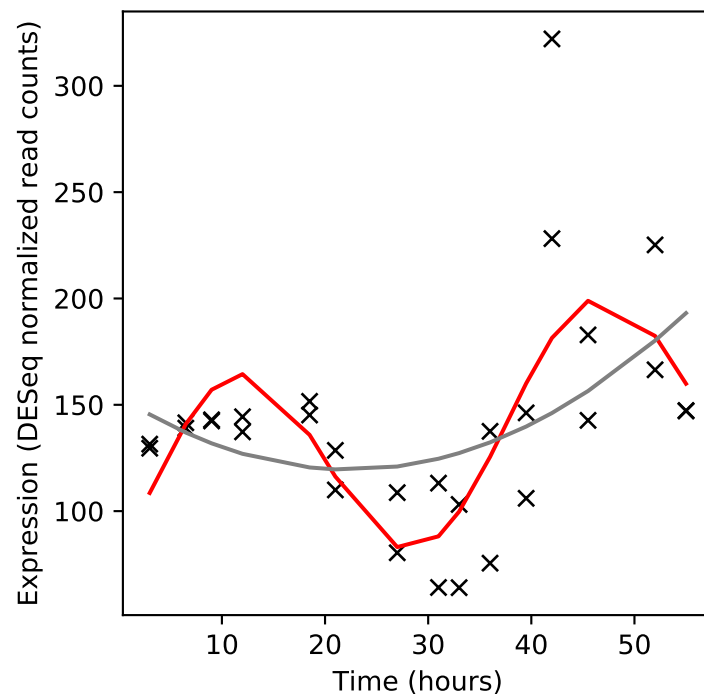
Rv3420c/rimI



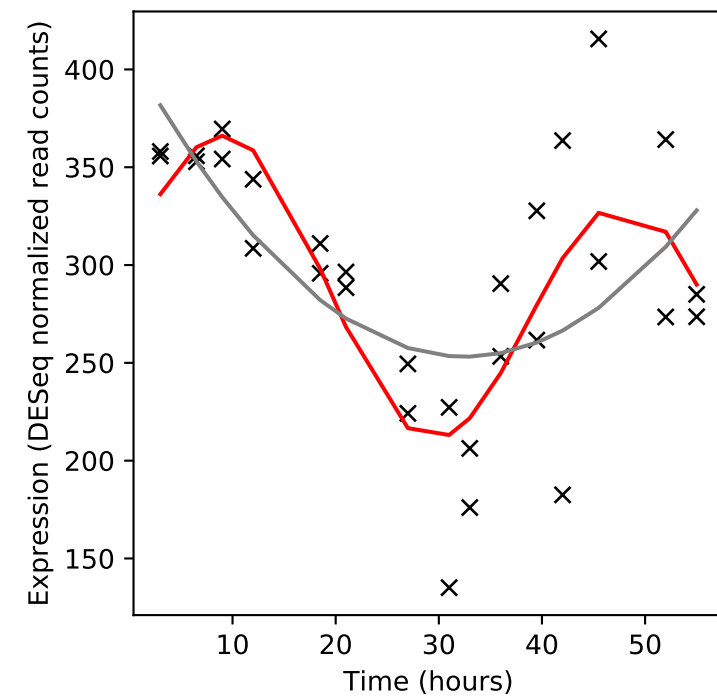
Rv3421c/-



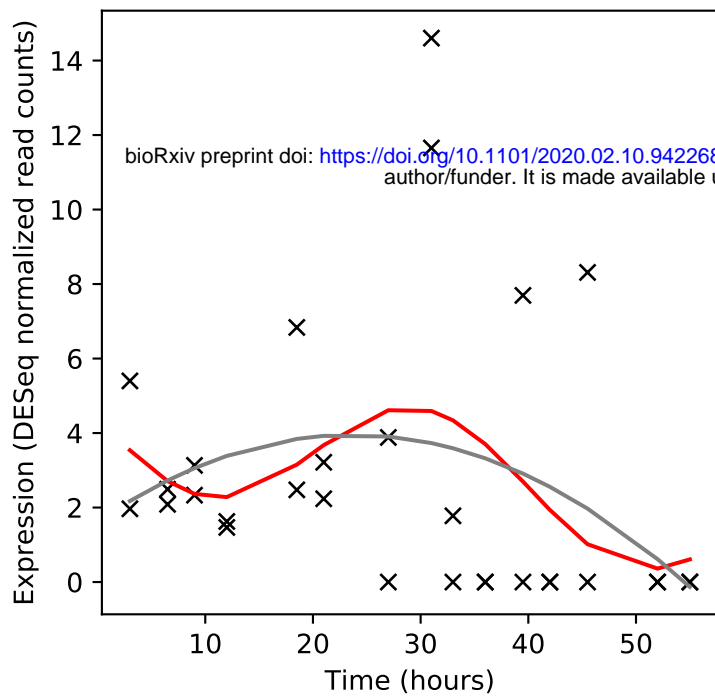
Rv3422c/-



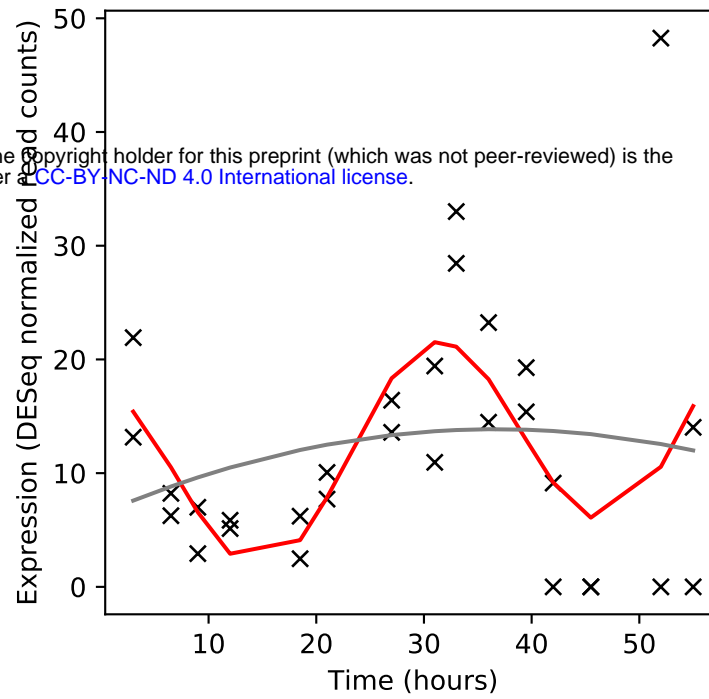
Rv3423c/alr



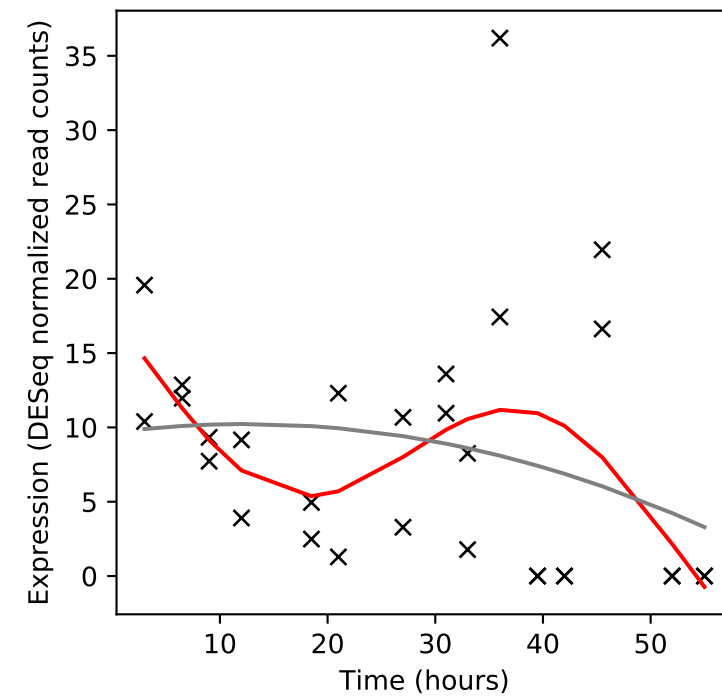
Rv3424c/-



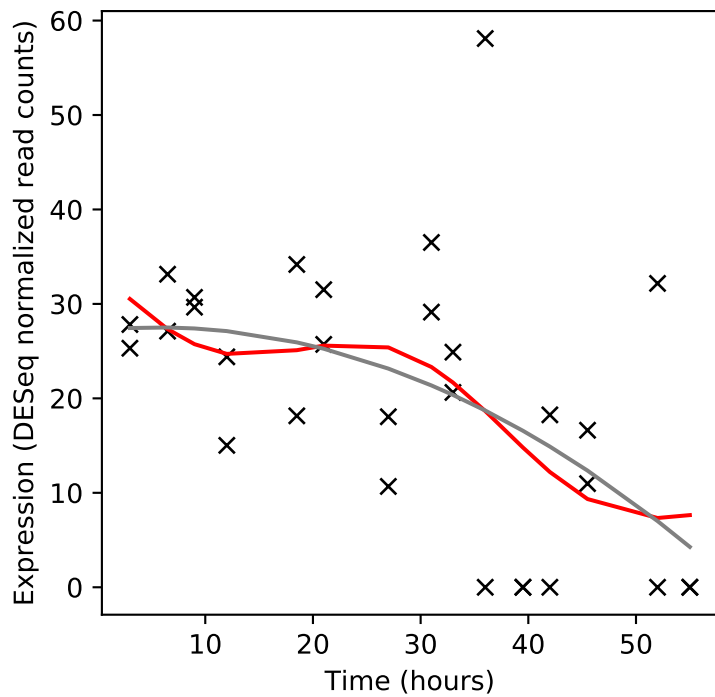
Rv3425/PPE57



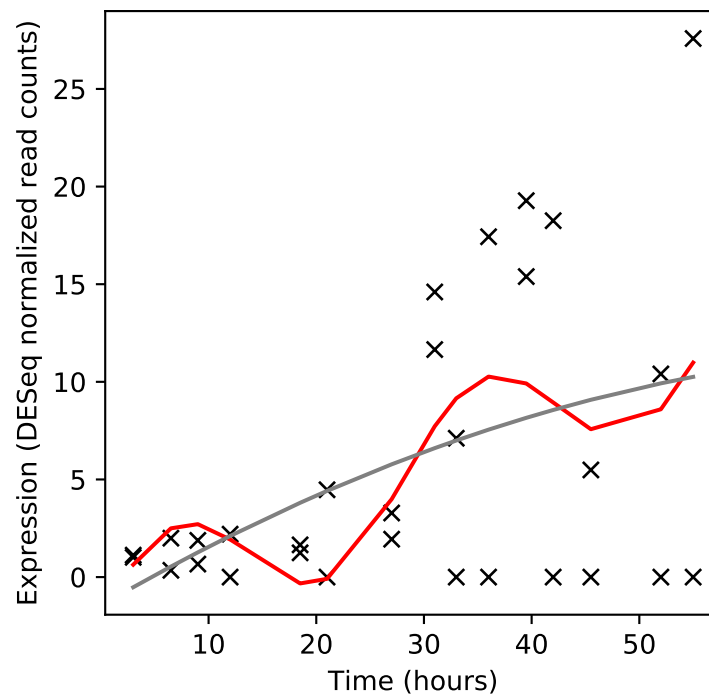
Rv3426/PPE58



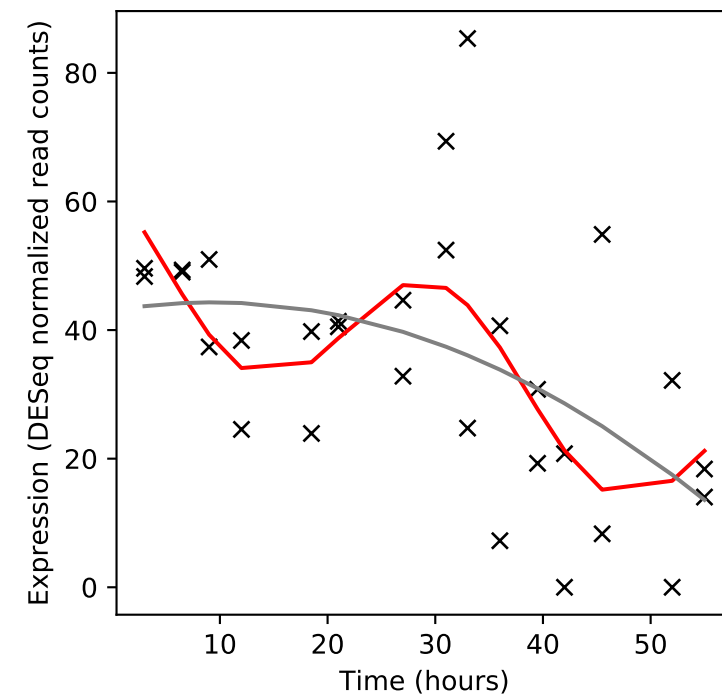
Rv3427c/-



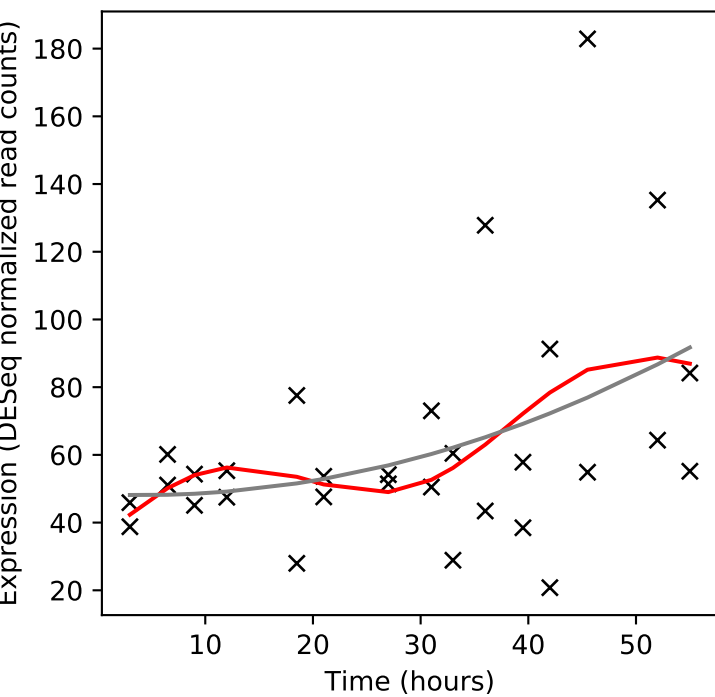
Rv3428c/-



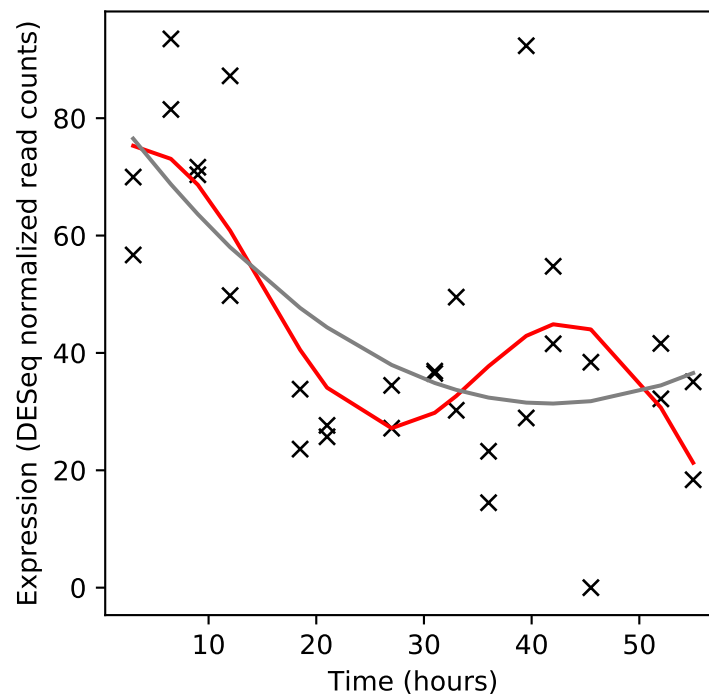
Rv3429/PPE59



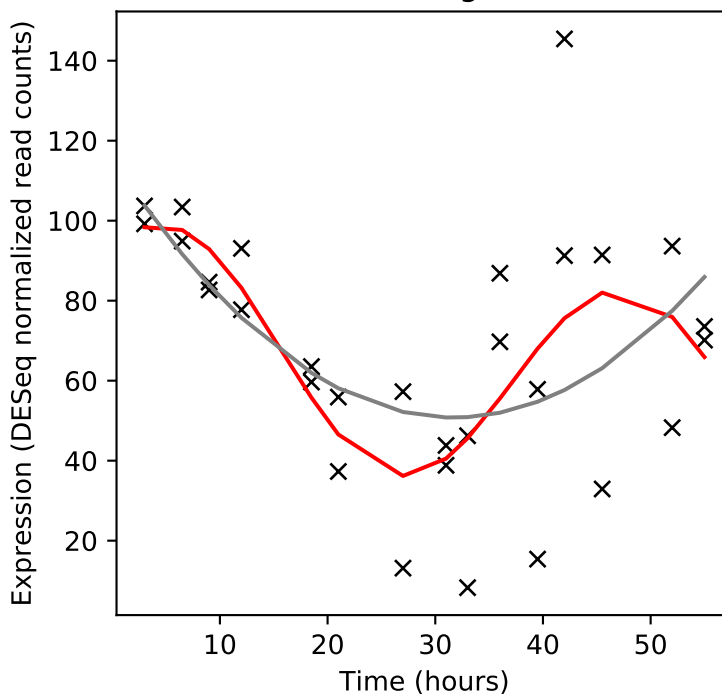
Rv3430c/-



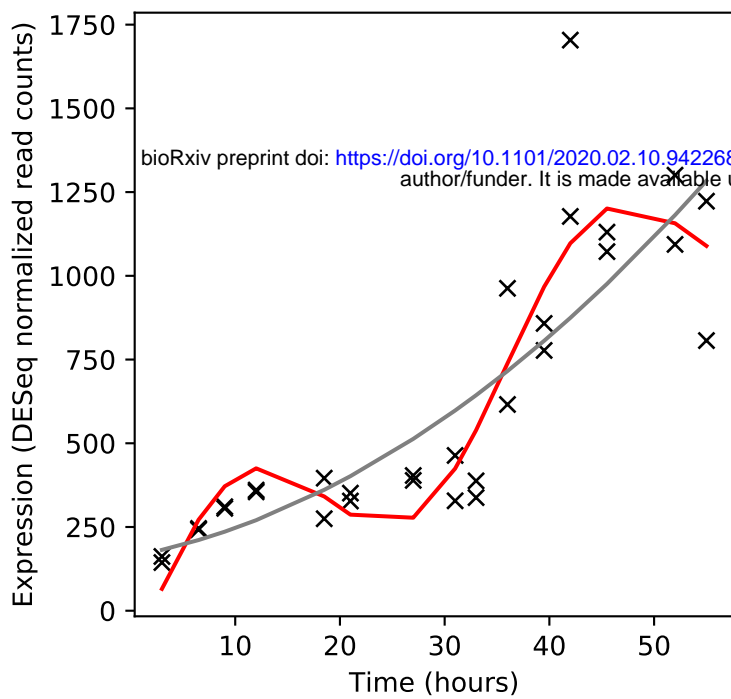
Rv3431c/-



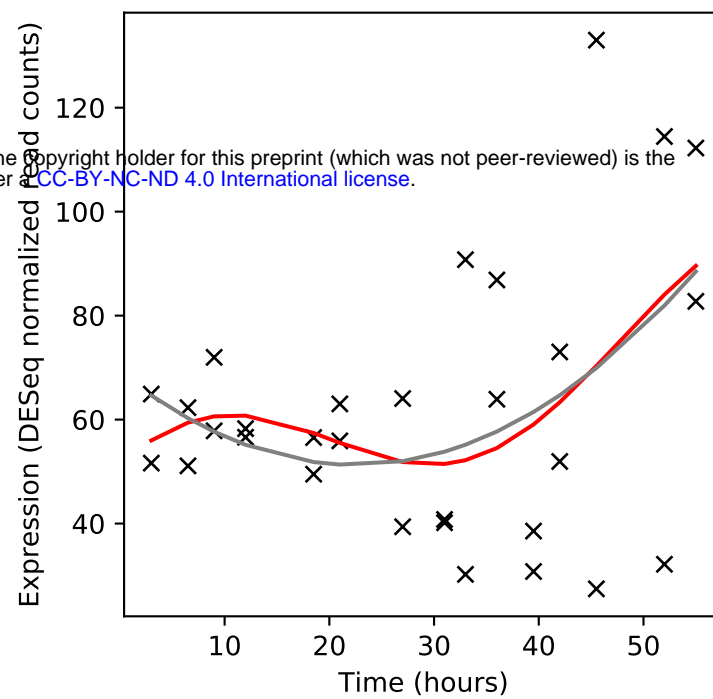
Rv3432c/gadB



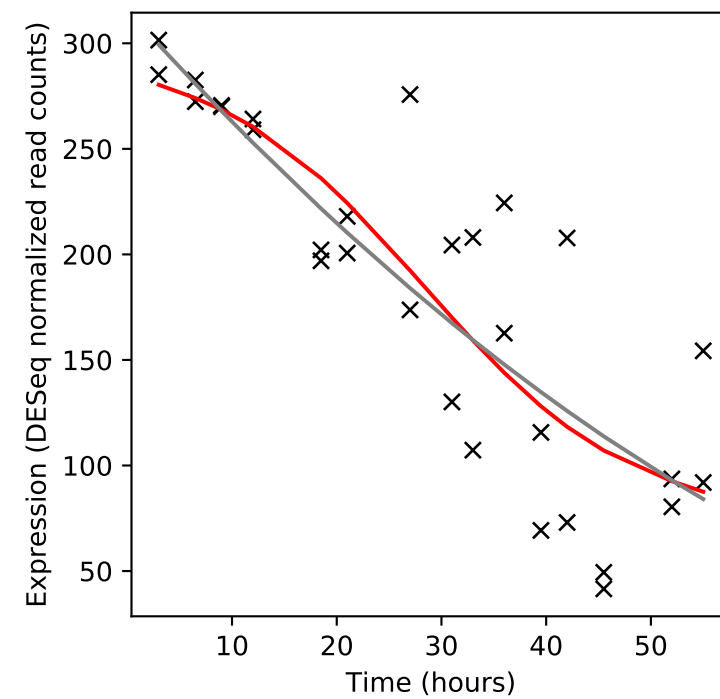
Rv3433c/-



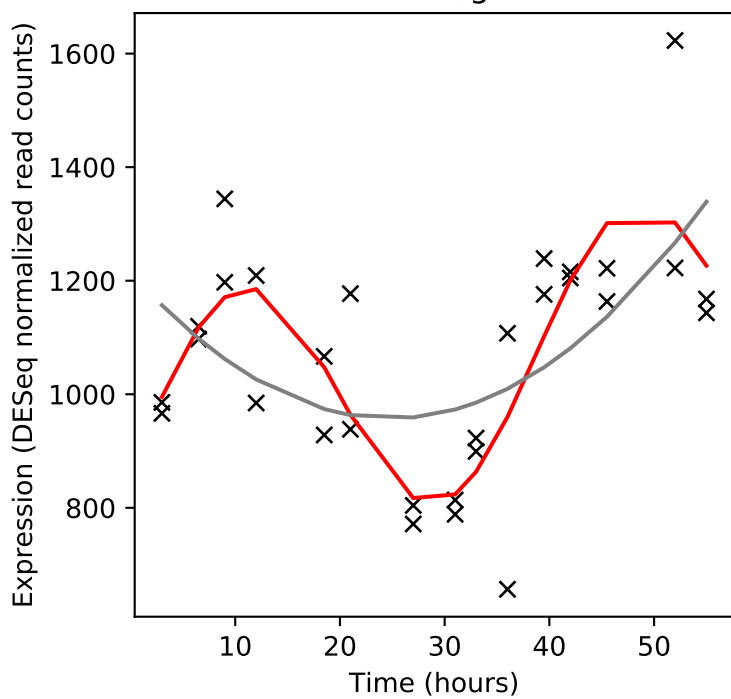
Rv3434c/-



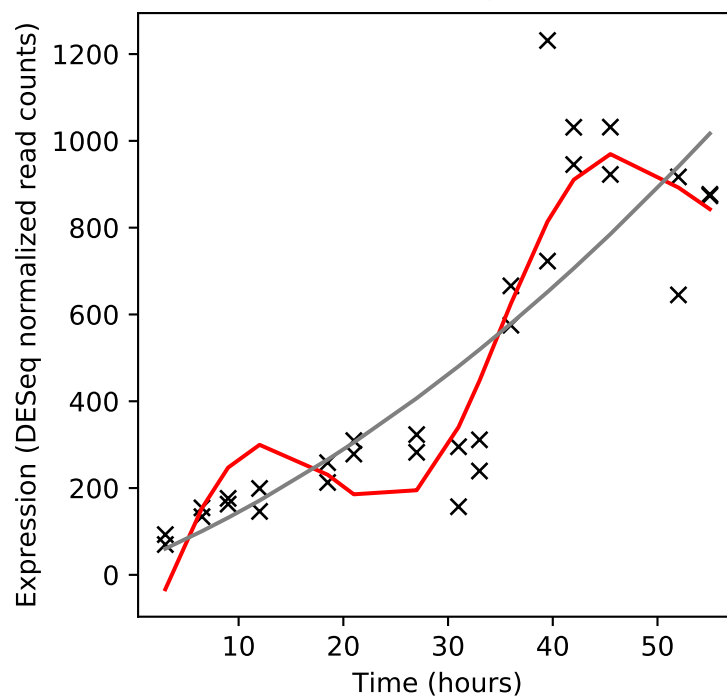
Rv3435c/-



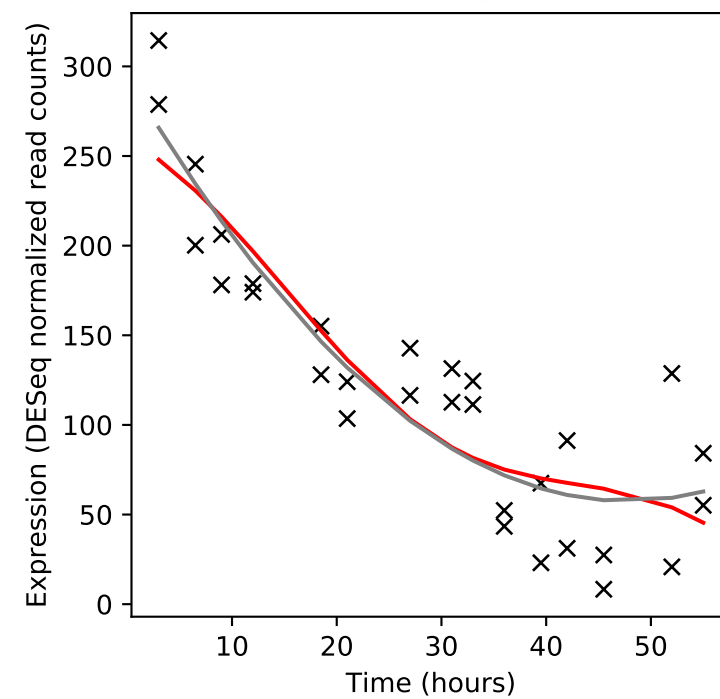
Rv3436c/glmS



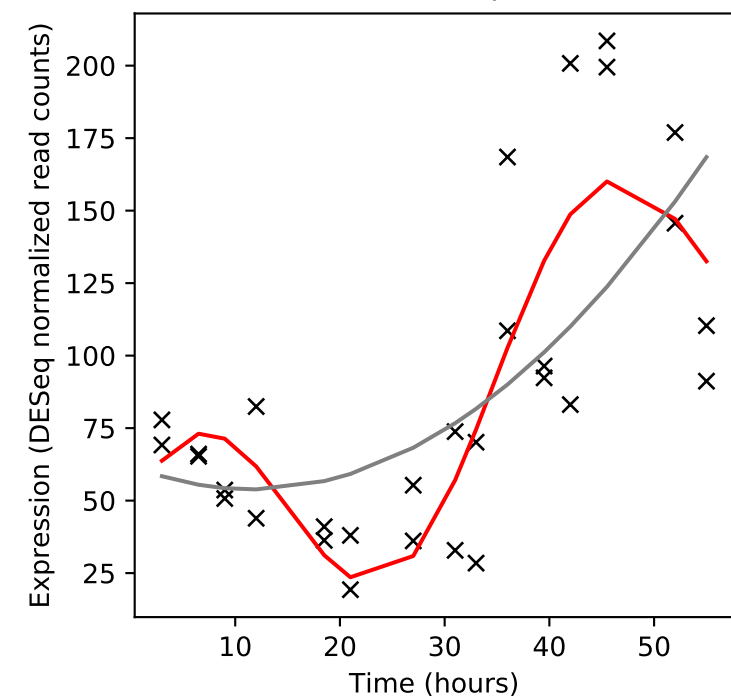
Rv3437/-



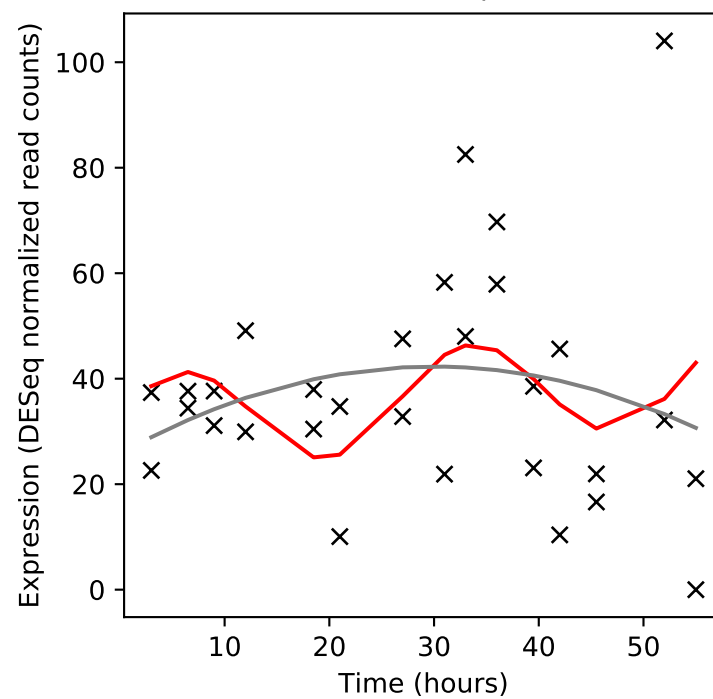
Rv3438/-



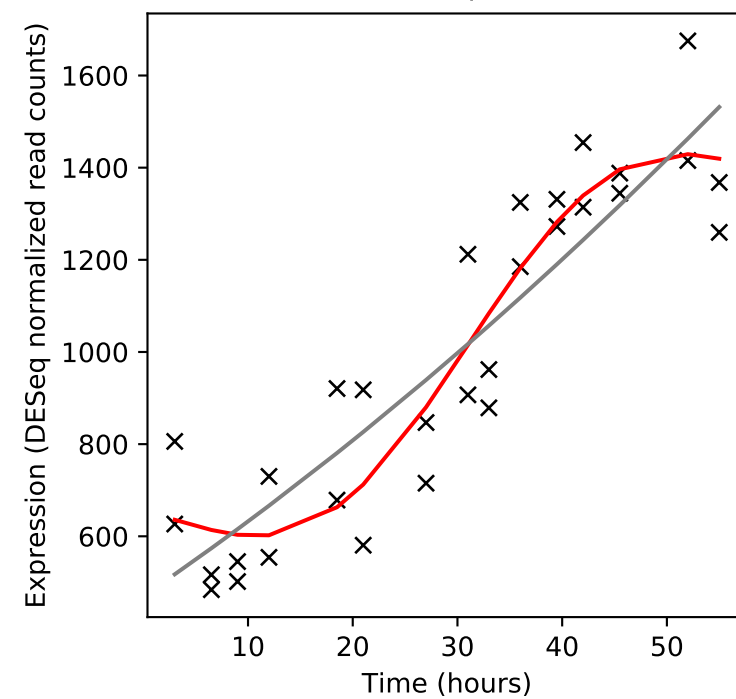
Rv3439c/-



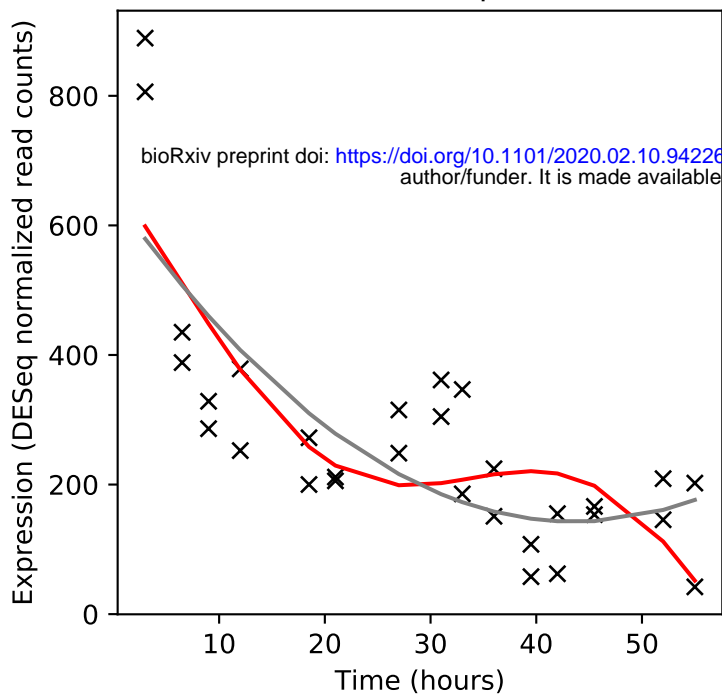
Rv3440c/-



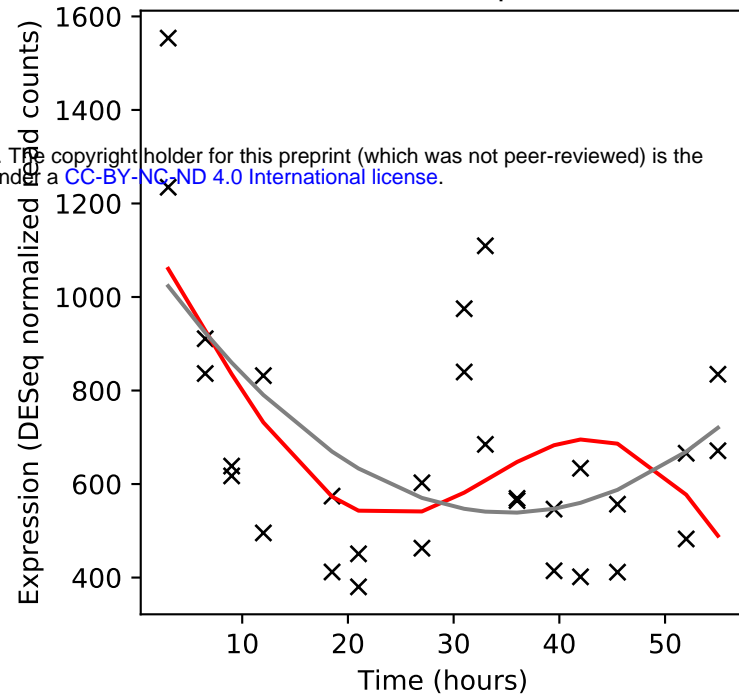
Rv3441c/mrsA



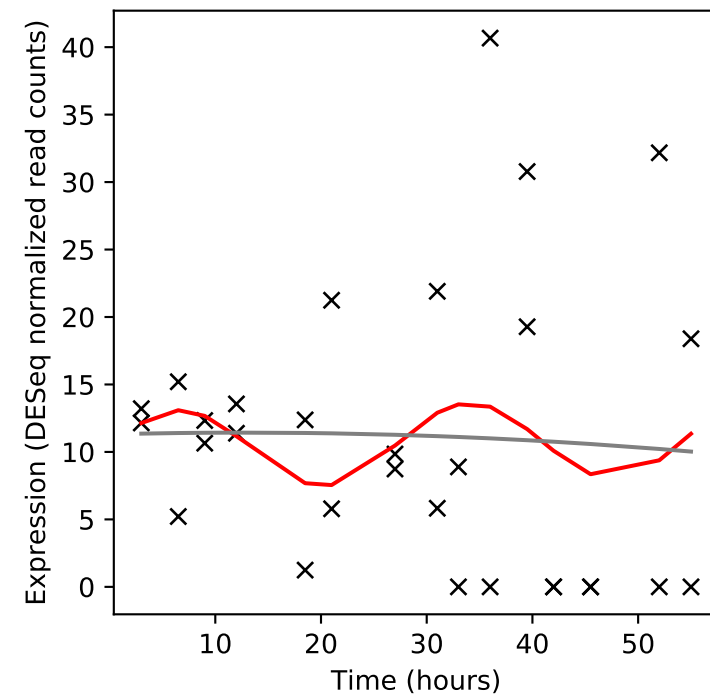
Rv3442c/rpsI



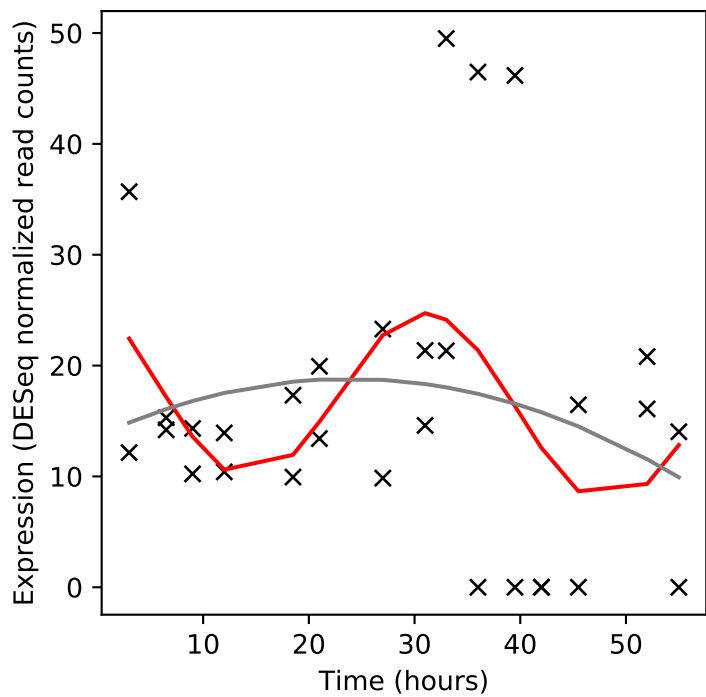
Rv3443c/rplM



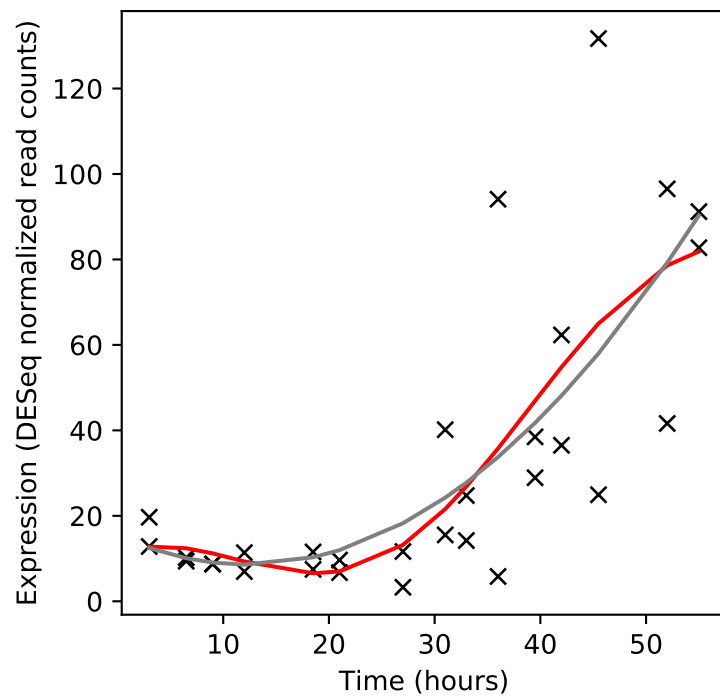
Rv3444c/esxT



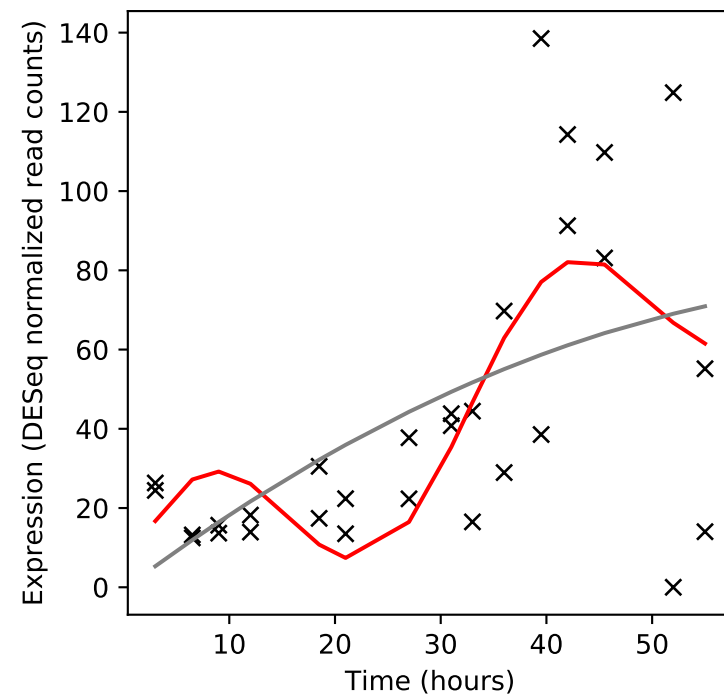
Rv3445c/esxU



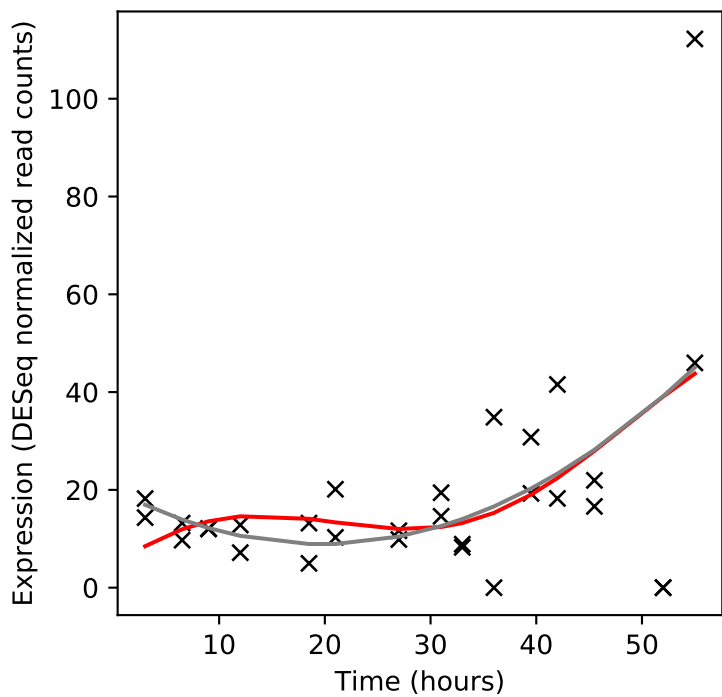
Rv3446c/-



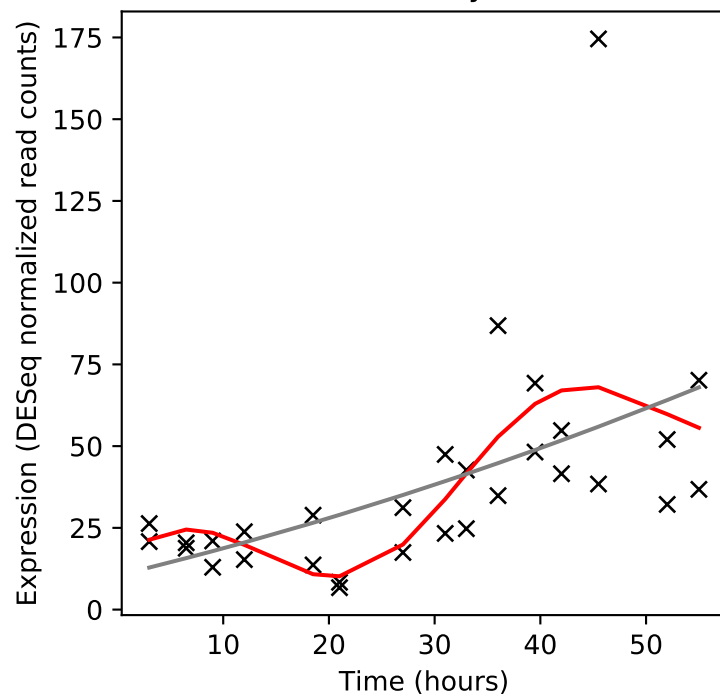
Rv3447c/eccC4



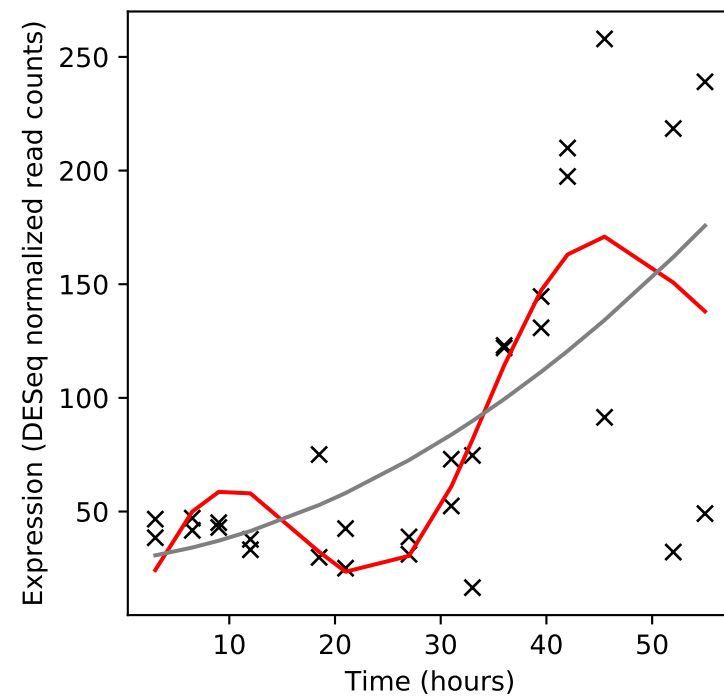
Rv3448/eccD4



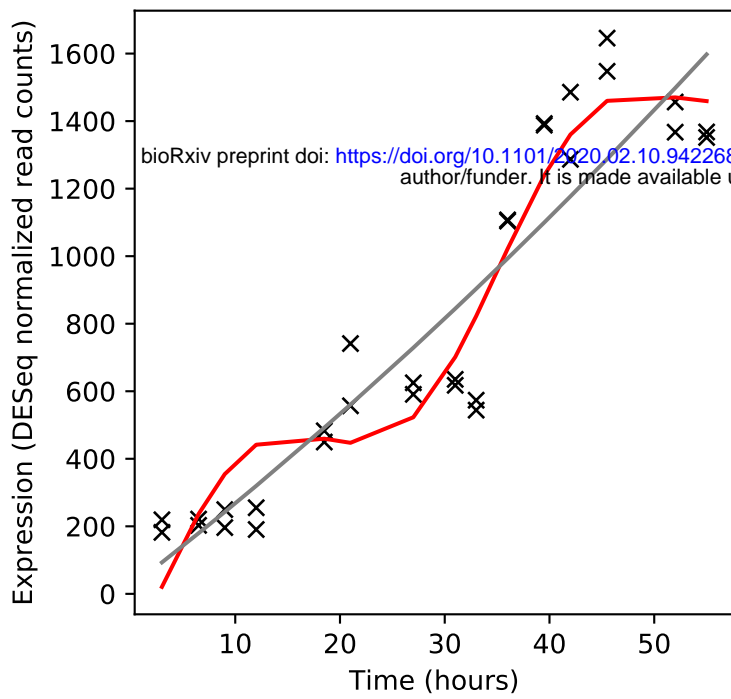
Rv3449/mycP4



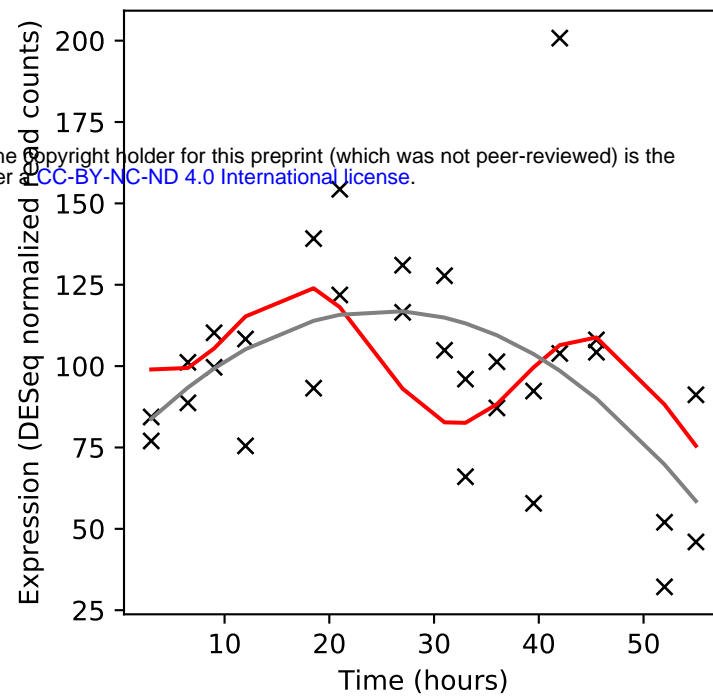
Rv3450c/eccB4



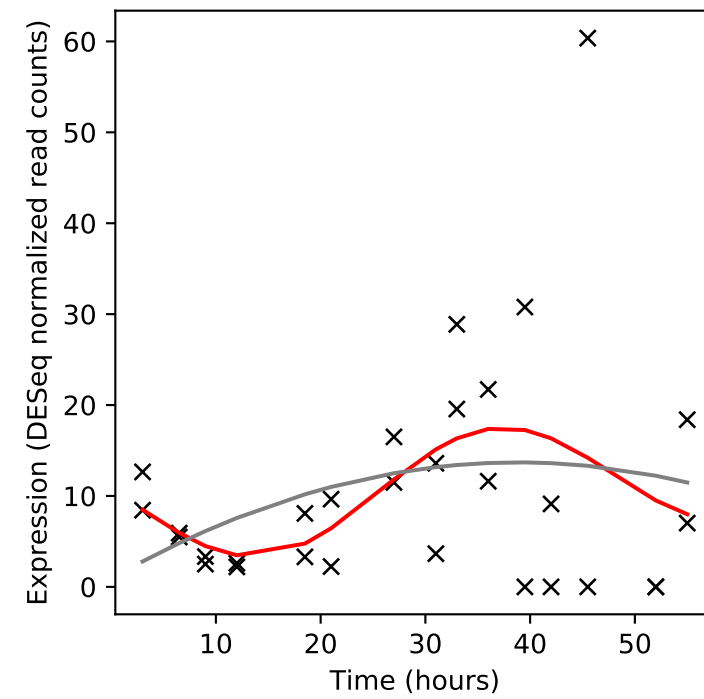
Rv3451/cut3



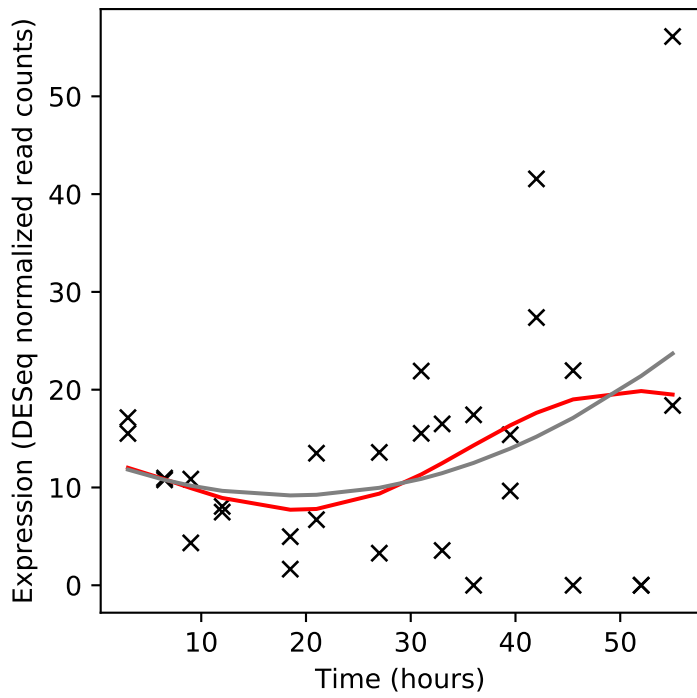
Rv3452/cut4



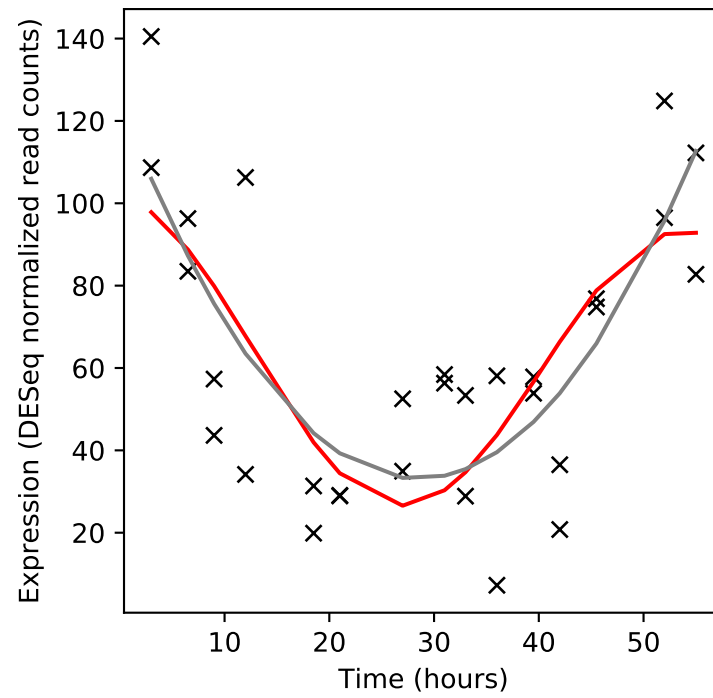
Rv3453/-



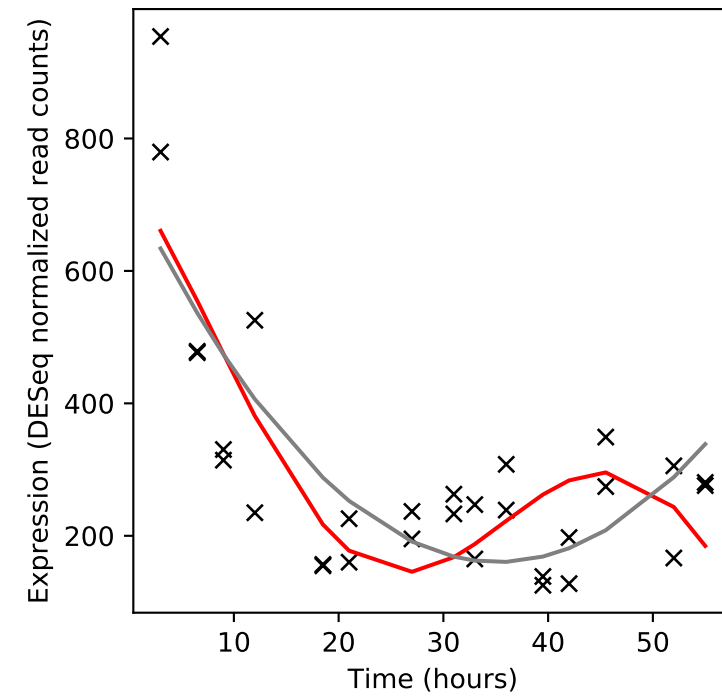
Rv3454/-



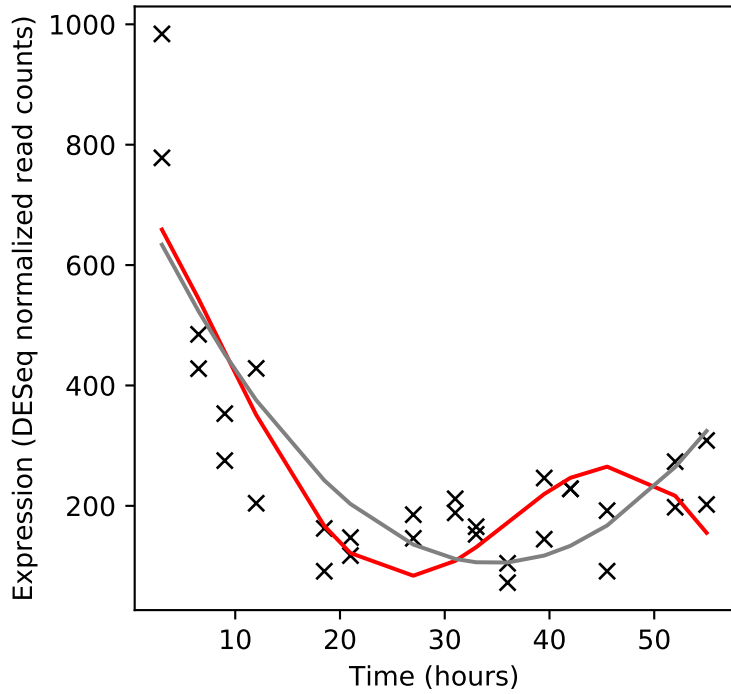
Rv3455c/truA



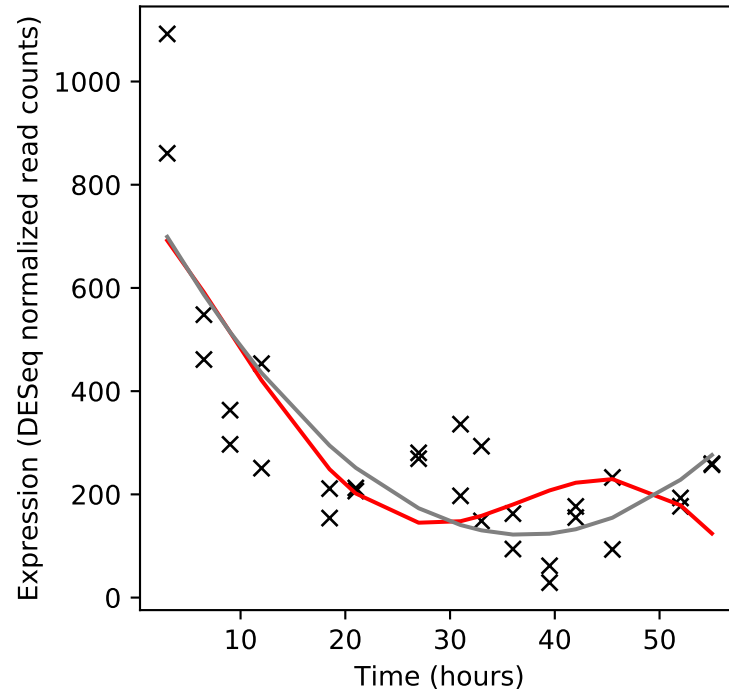
Rv3456c/rplQ



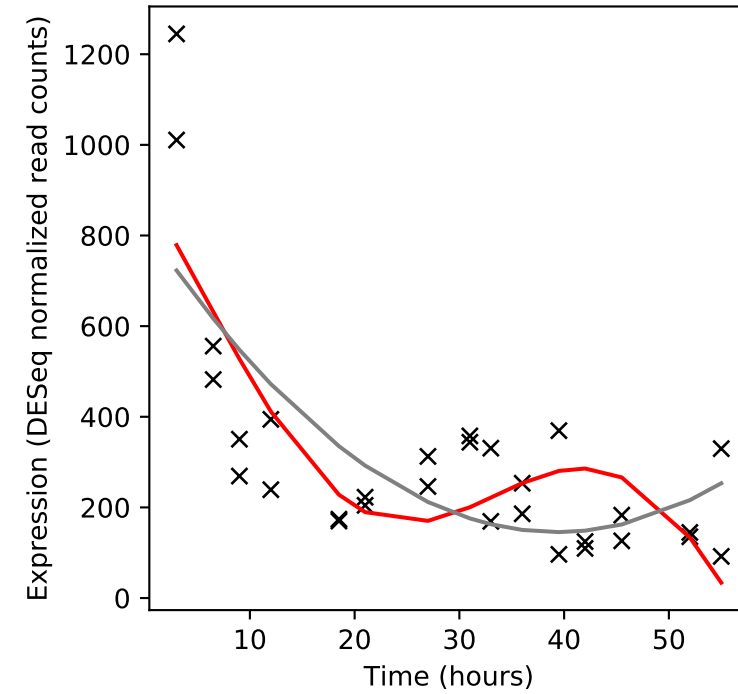
Rv3457c/rpoA



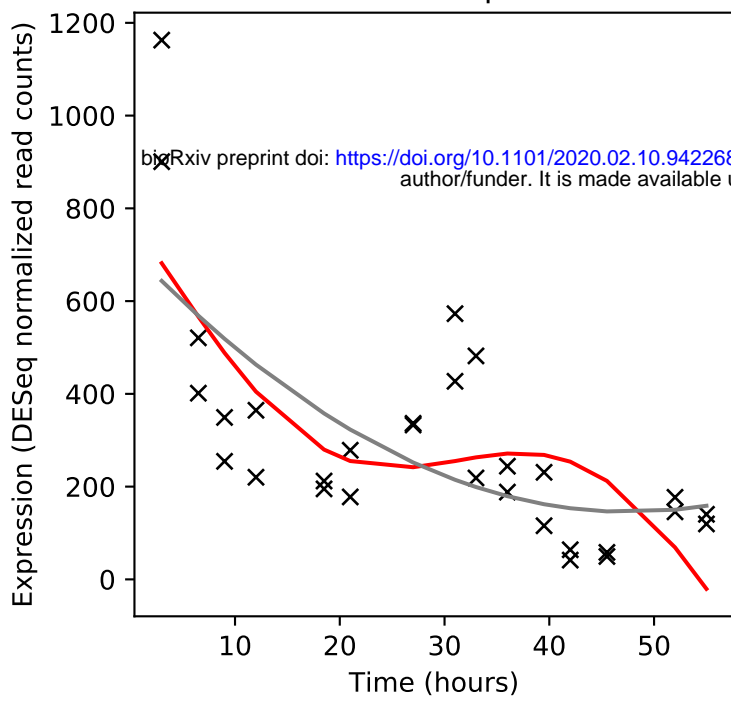
Rv3458c/rpsD



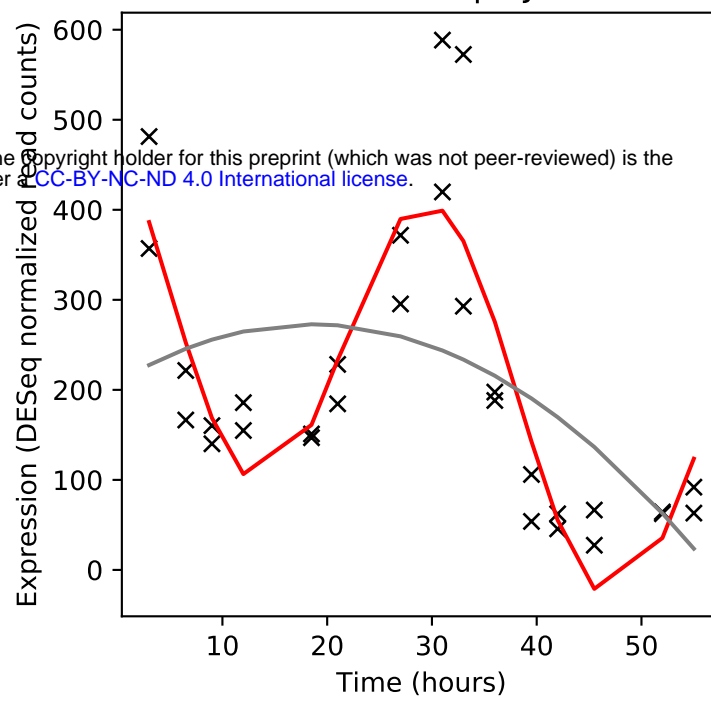
Rv3459c/rpsK



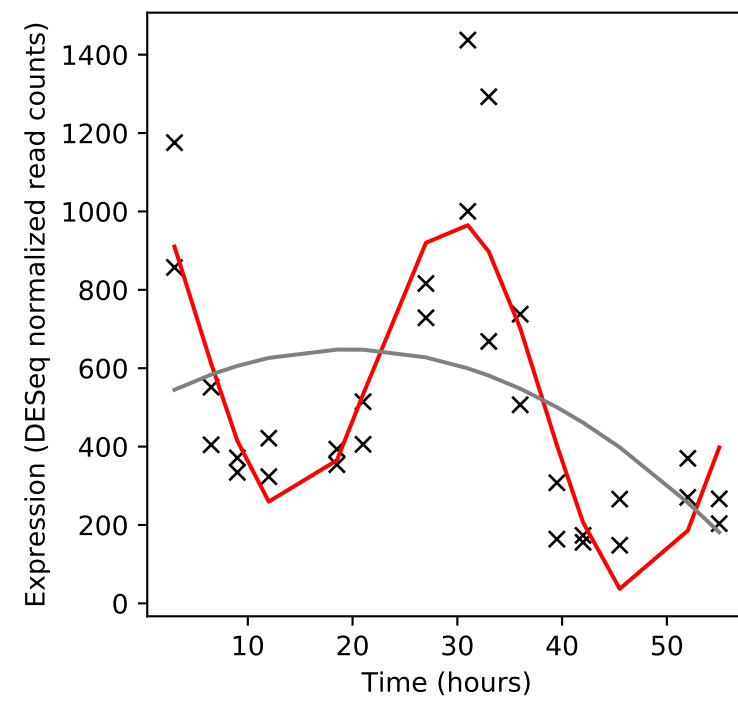
Rv3460c/rpsM



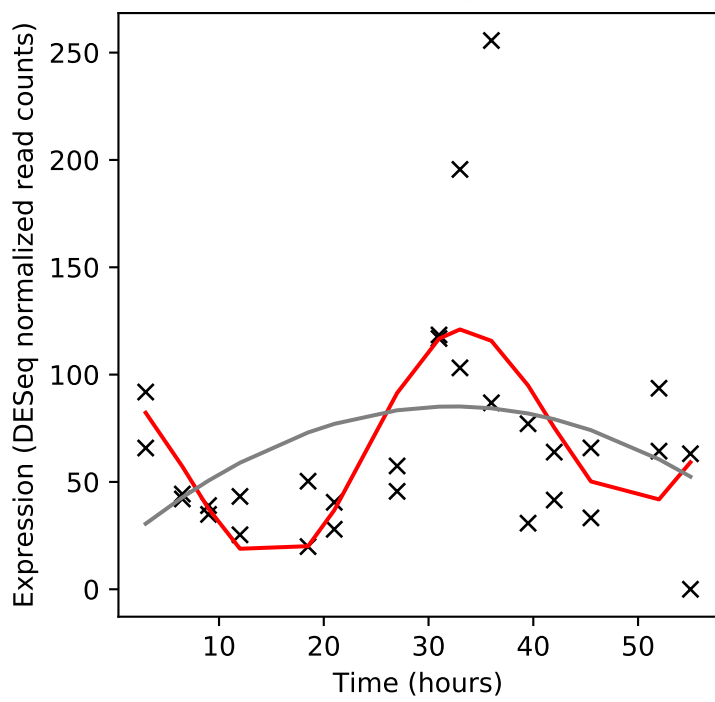
Rv3461c/rpmJ



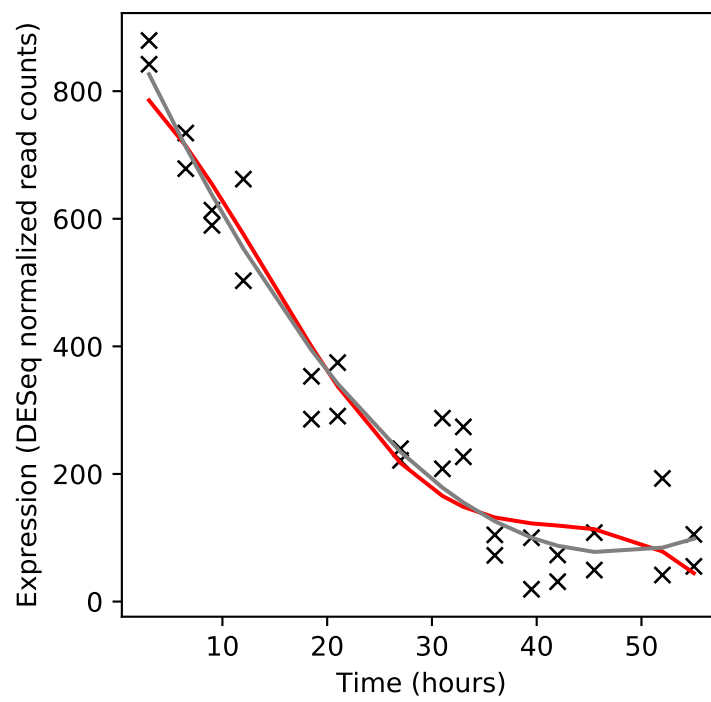
Rv3462c/infA



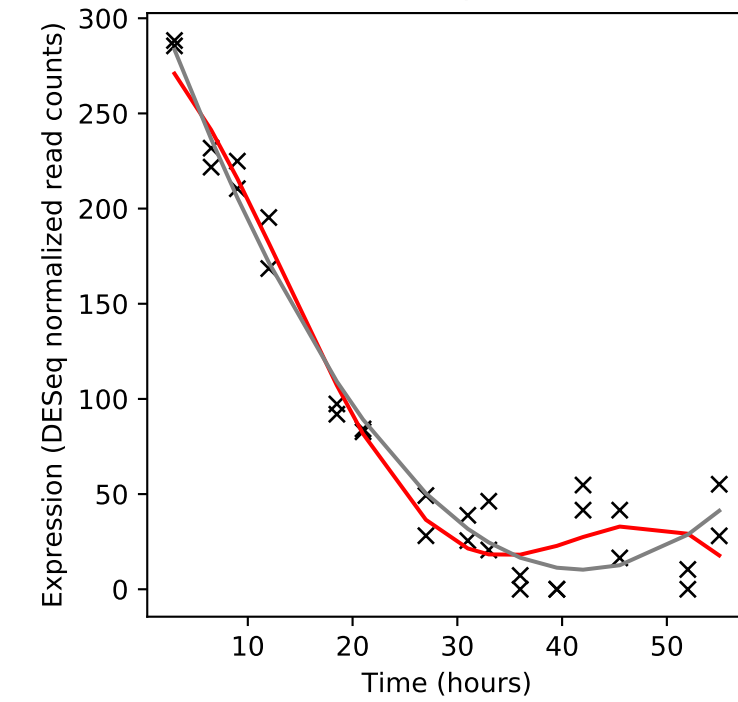
Rv3463/-



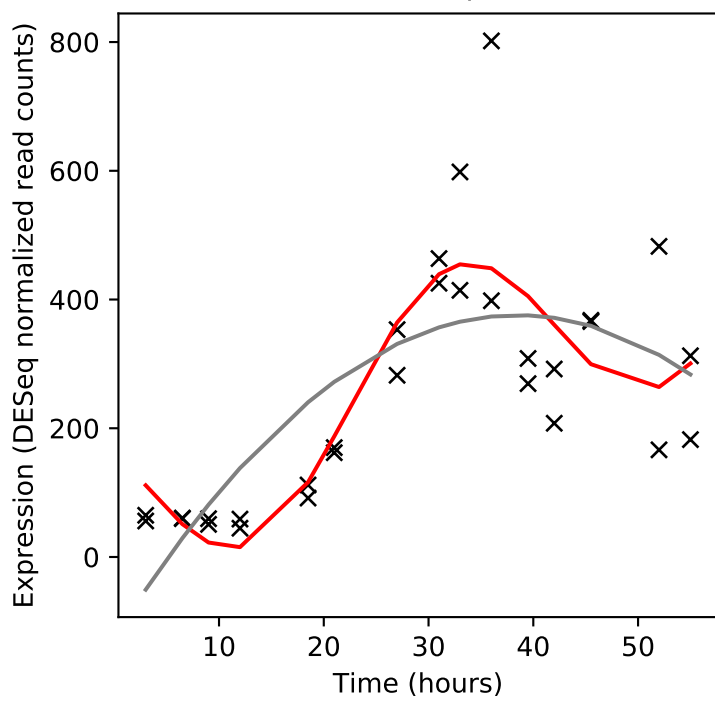
Rv3464/rmlB



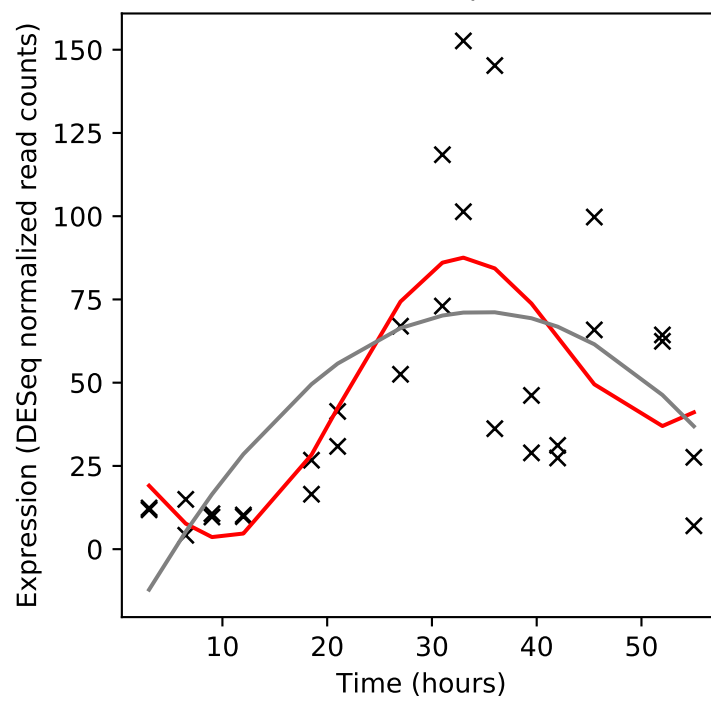
Rv3465/rmlC



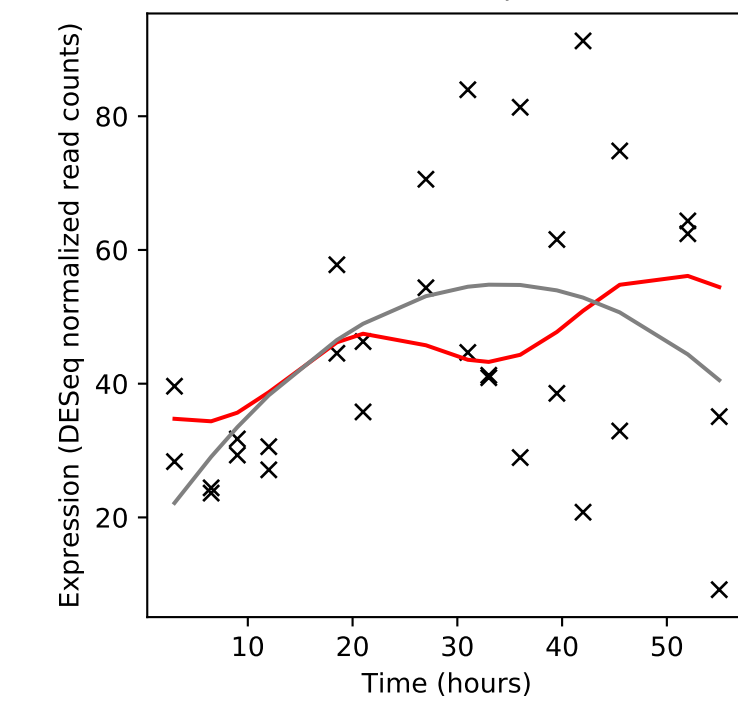
Rv3466/-



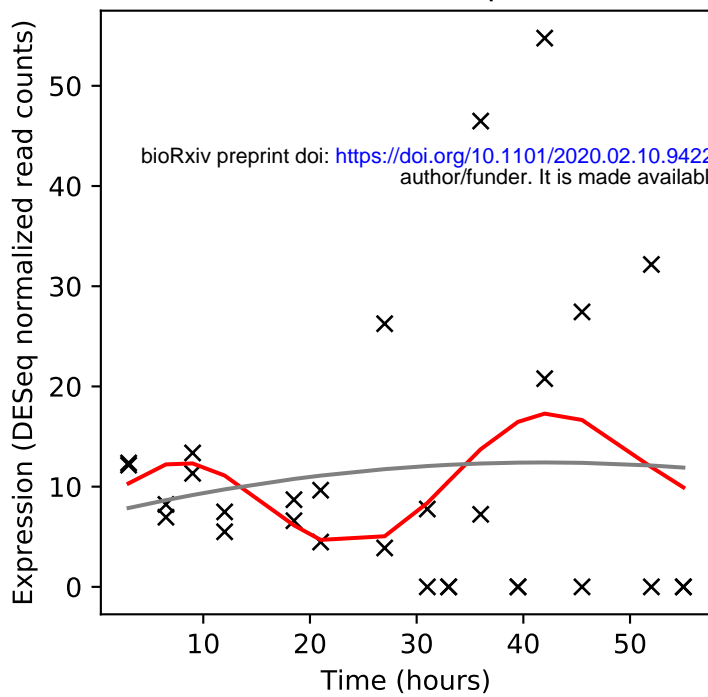
Rv3467/-



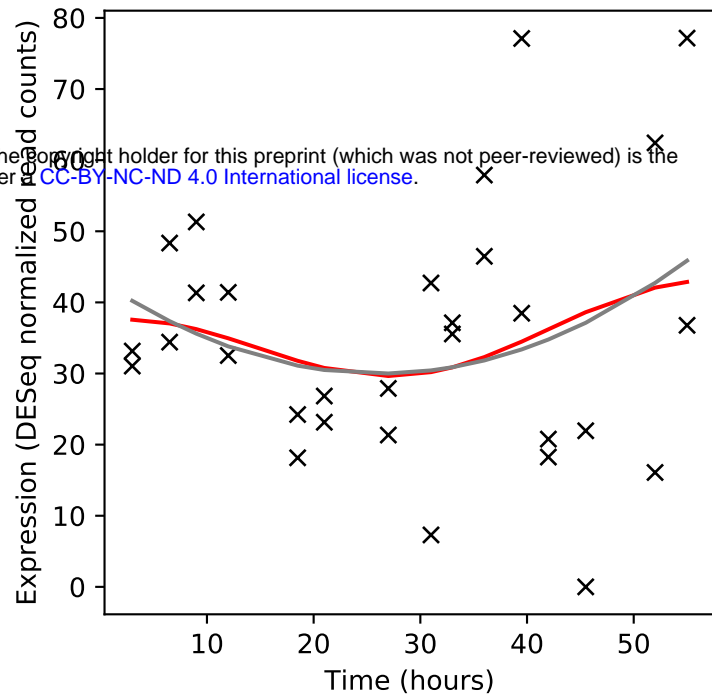
Rv3468c/-



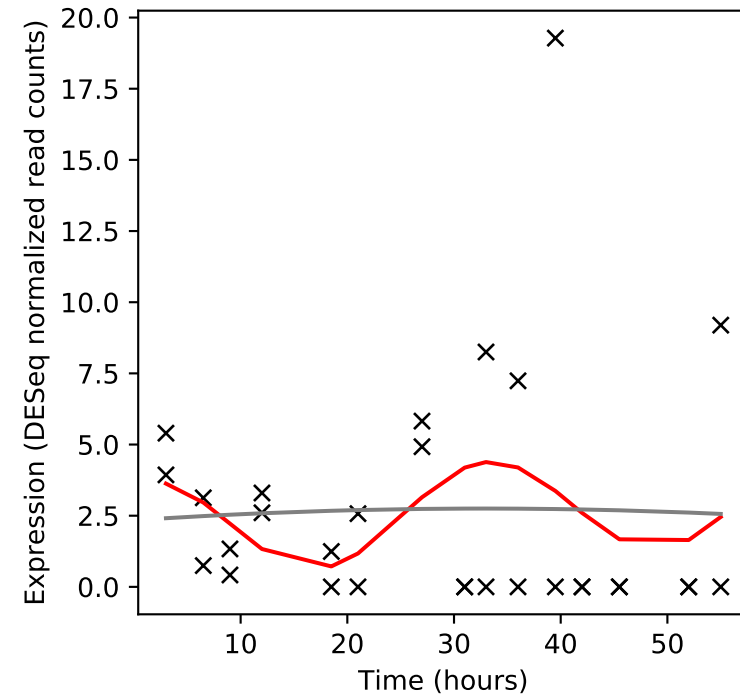
Rv3469c/mhpE



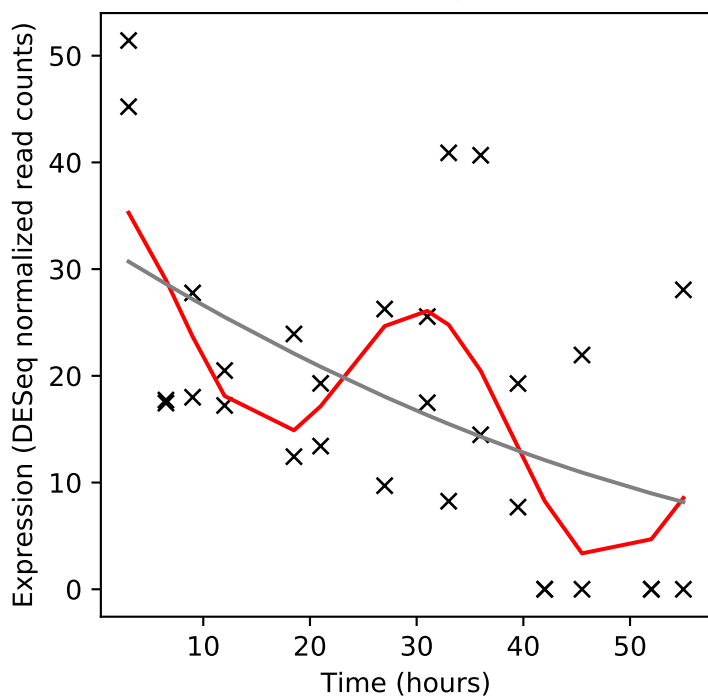
Rv3470c/ilvB2



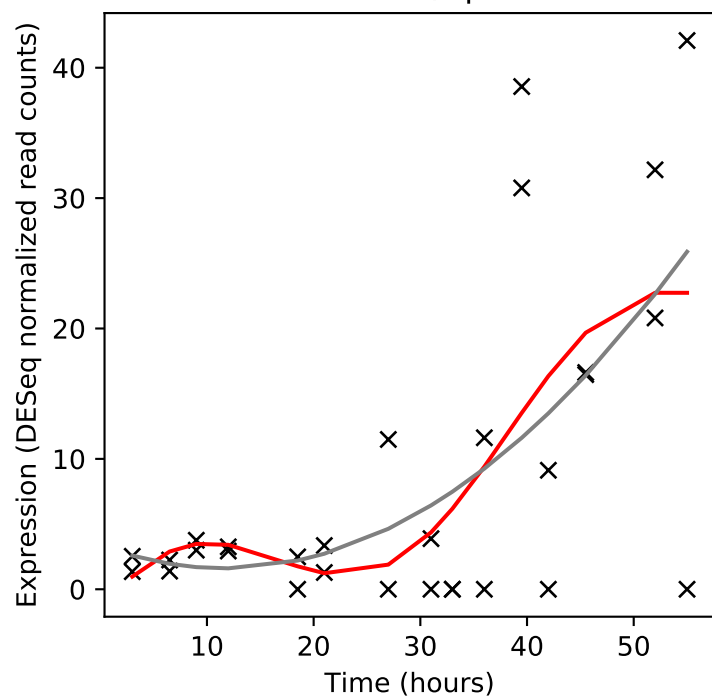
Rv3471c/-



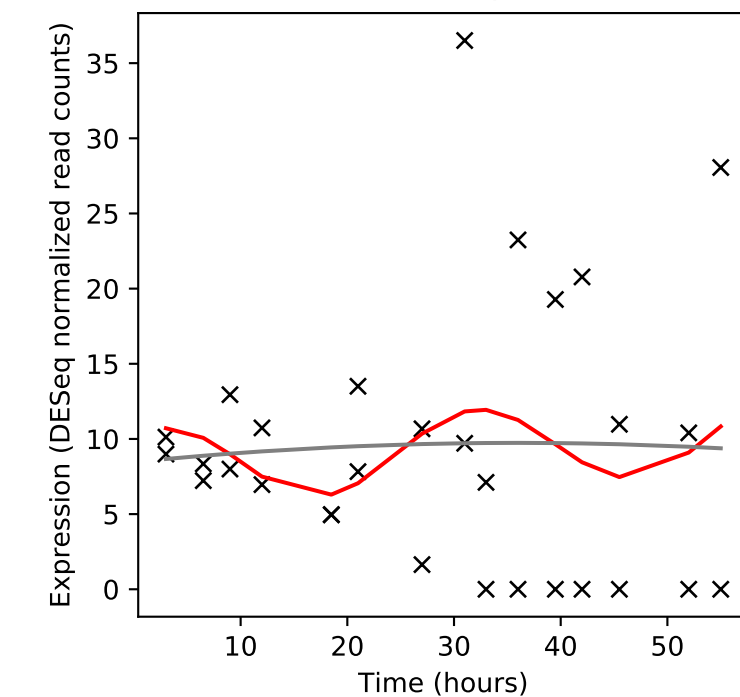
Rv3472/-



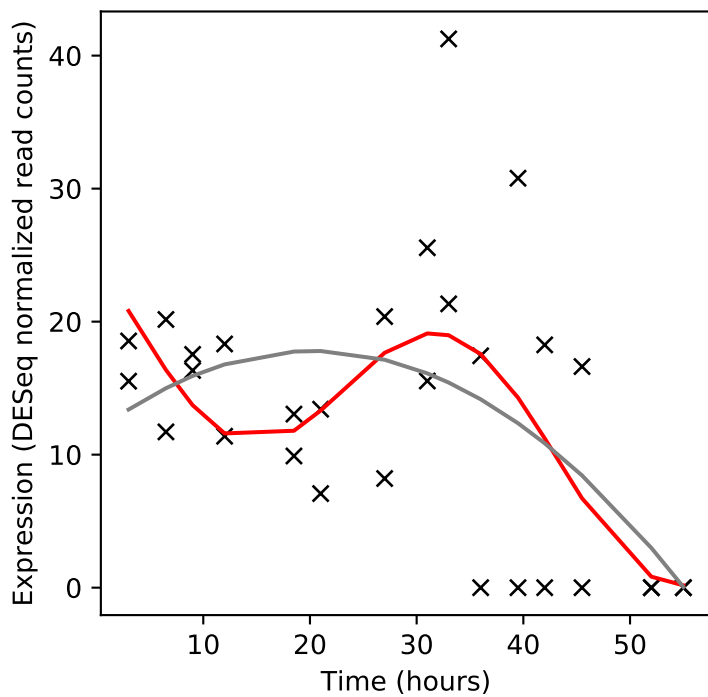
Rv3473c/bpoA



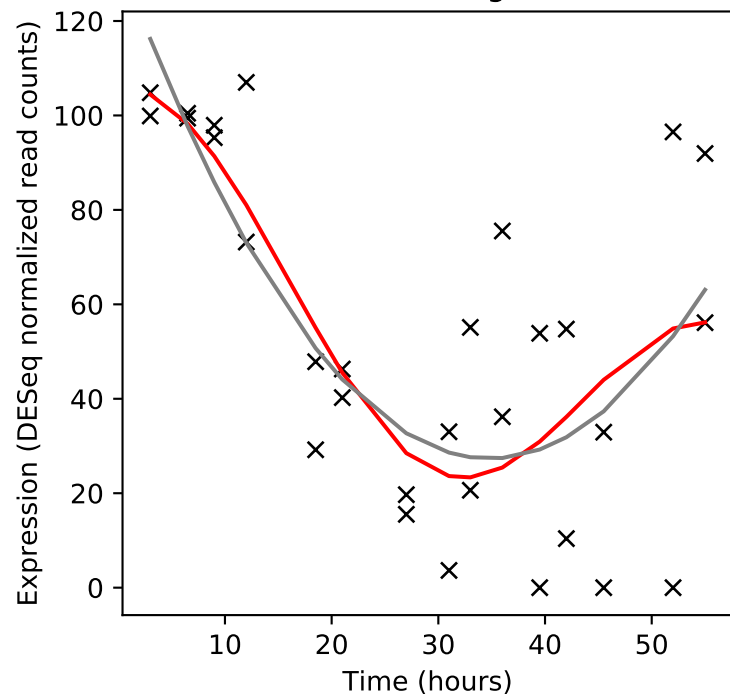
Rv3474/-



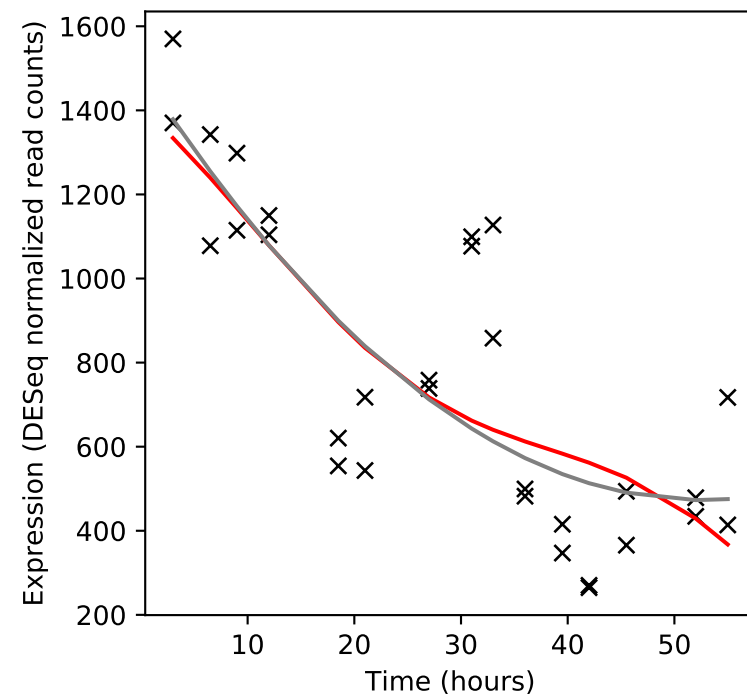
Rv3475/-



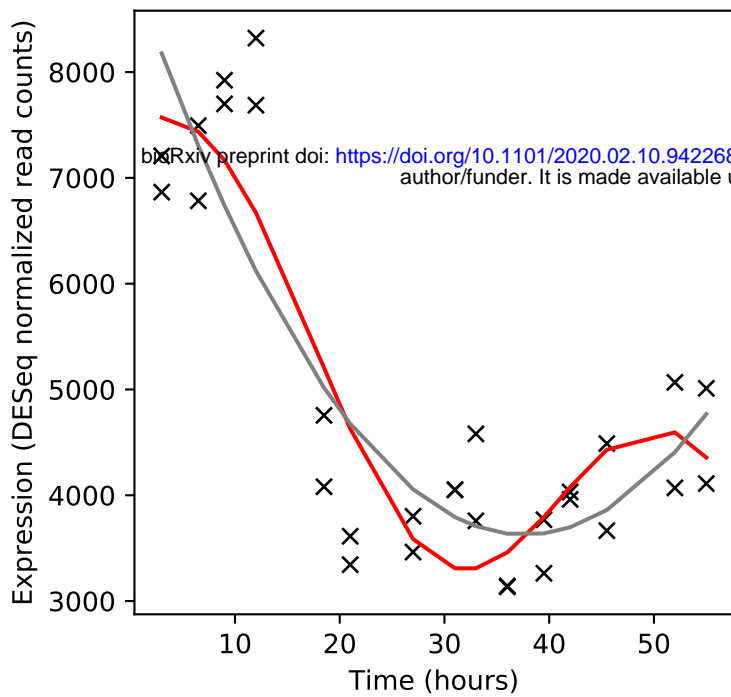
Rv3476c/kgtP



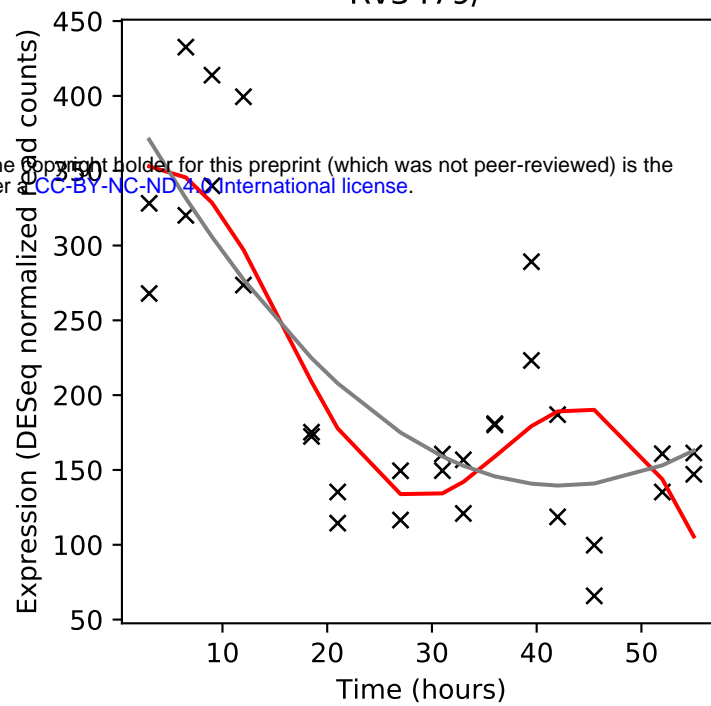
Rv3477/PE31



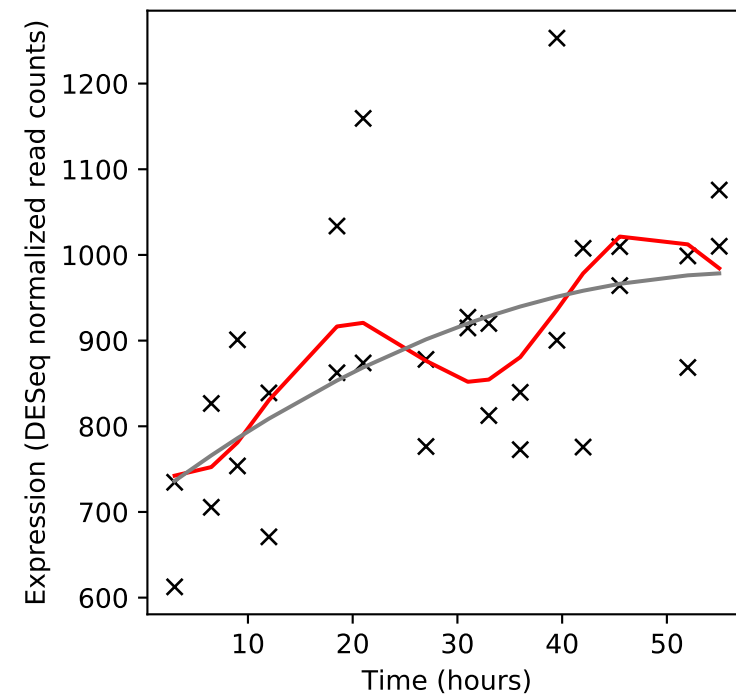
Rv3478/PPE60



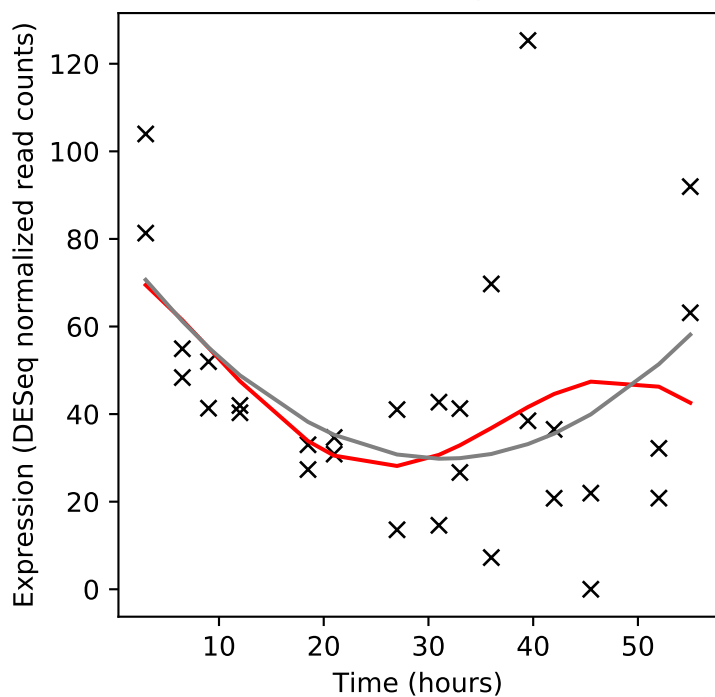
Rv3479/-



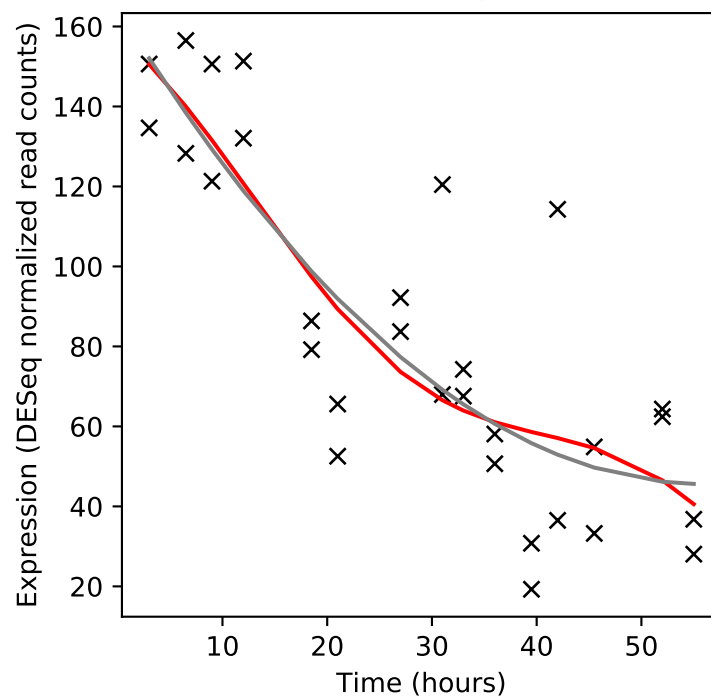
Rv3480c/-



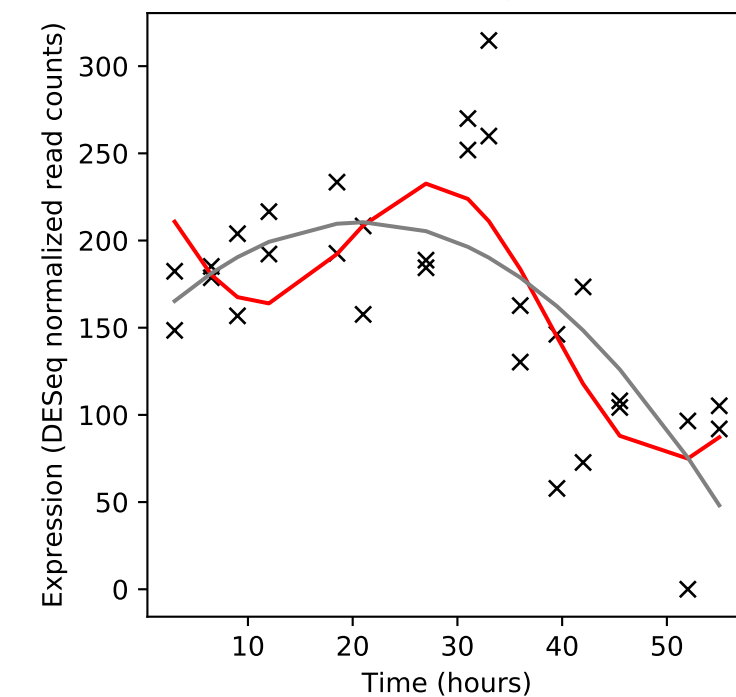
Rv3481c/-



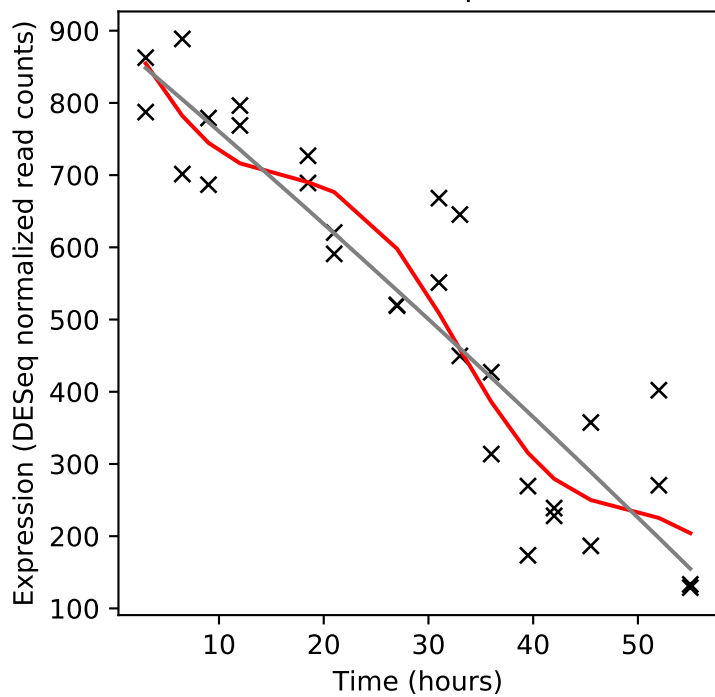
Rv3482c/-



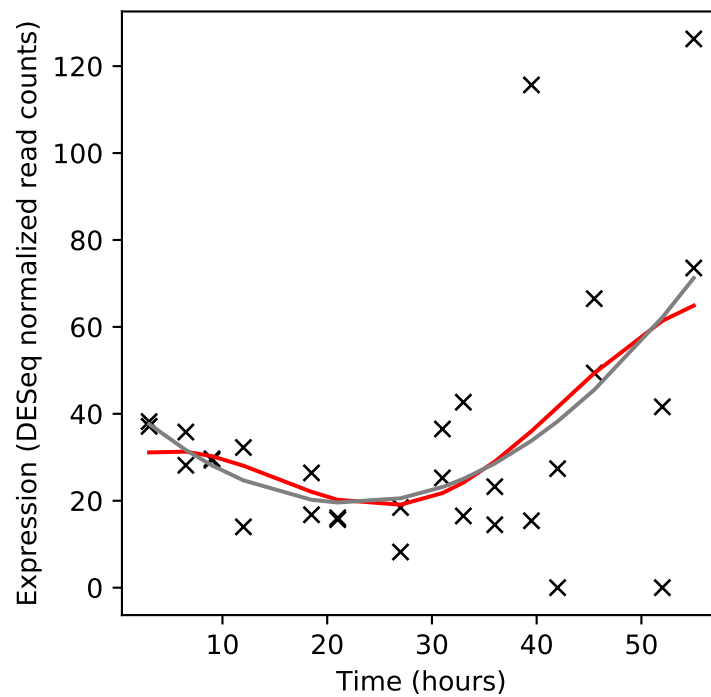
Rv3483c/-



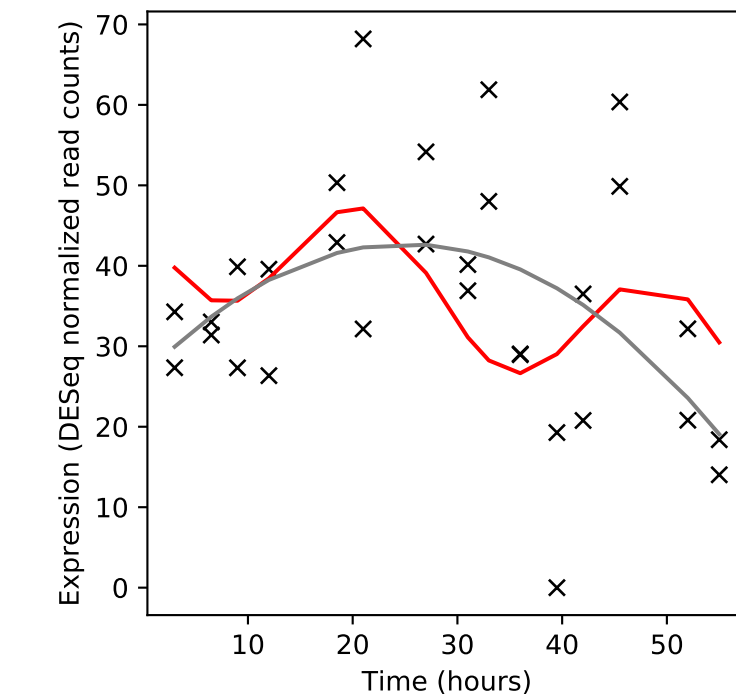
Rv3484/cpsA



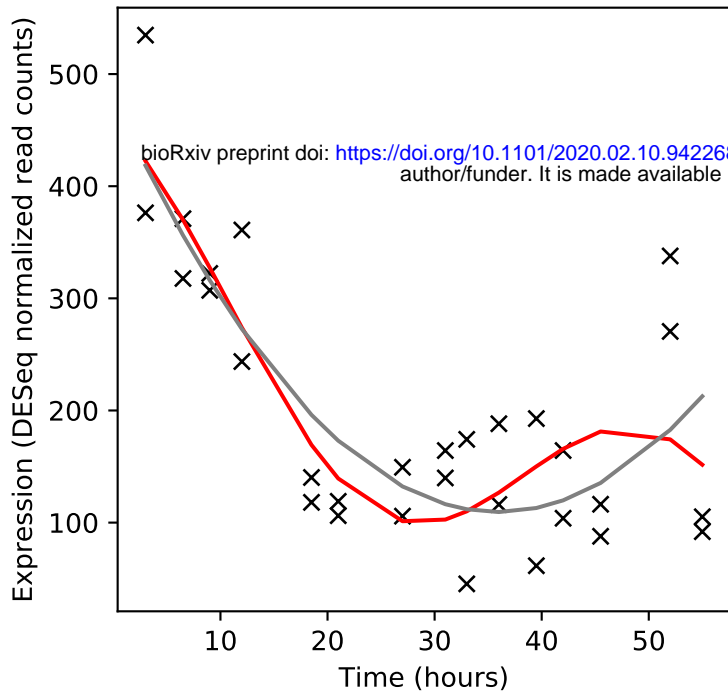
Rv3485c/-



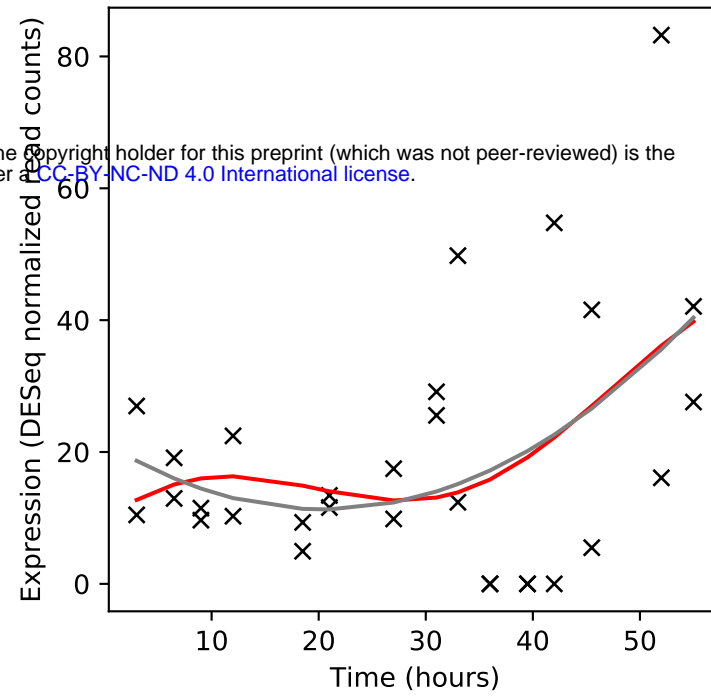
Rv3486/-



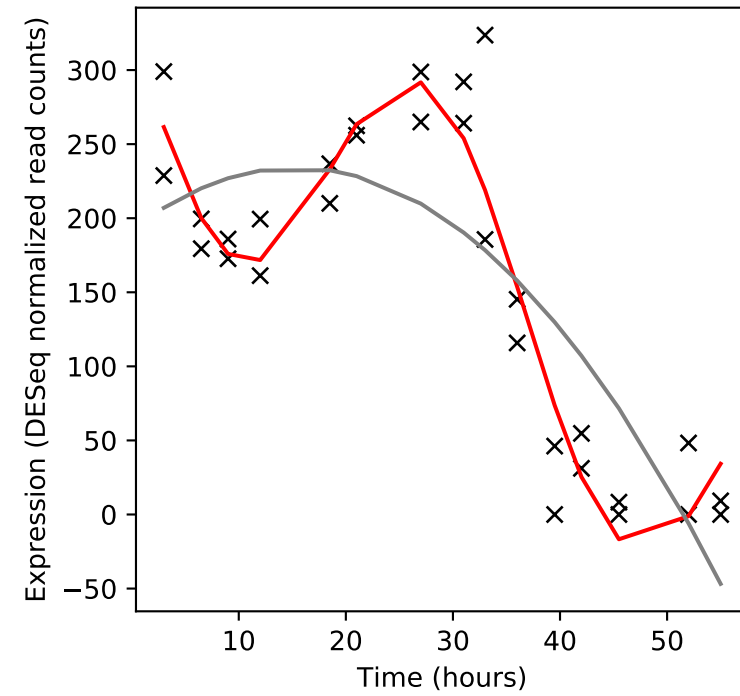
Rv3487c/lipF



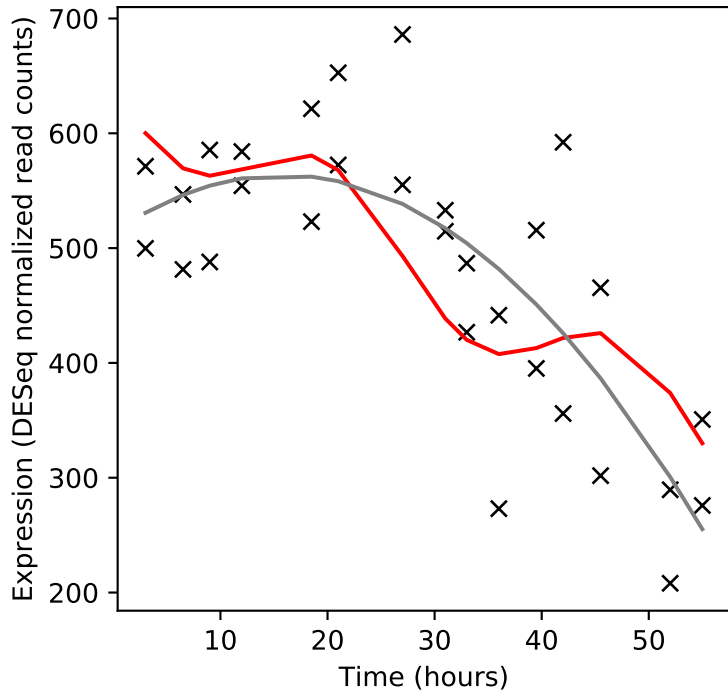
Rv3488/-



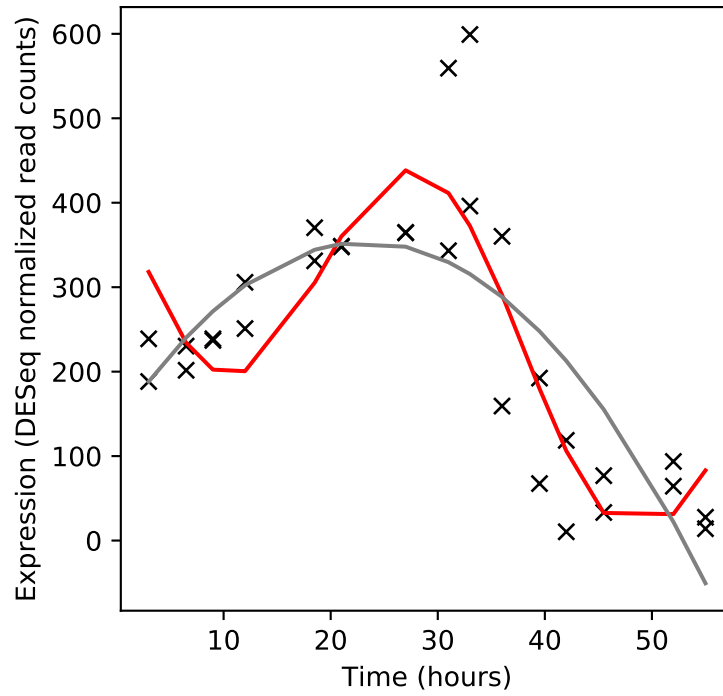
Rv3489/-



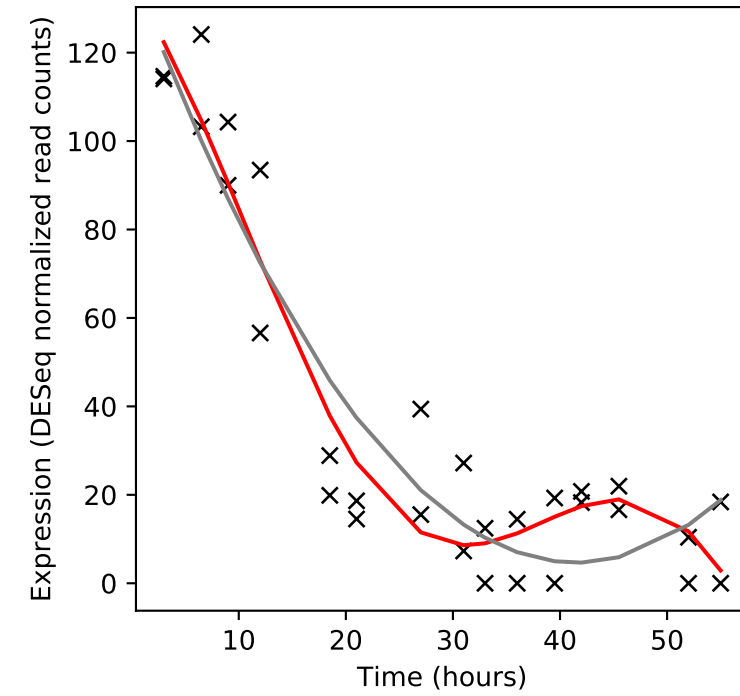
Rv3490/otsA



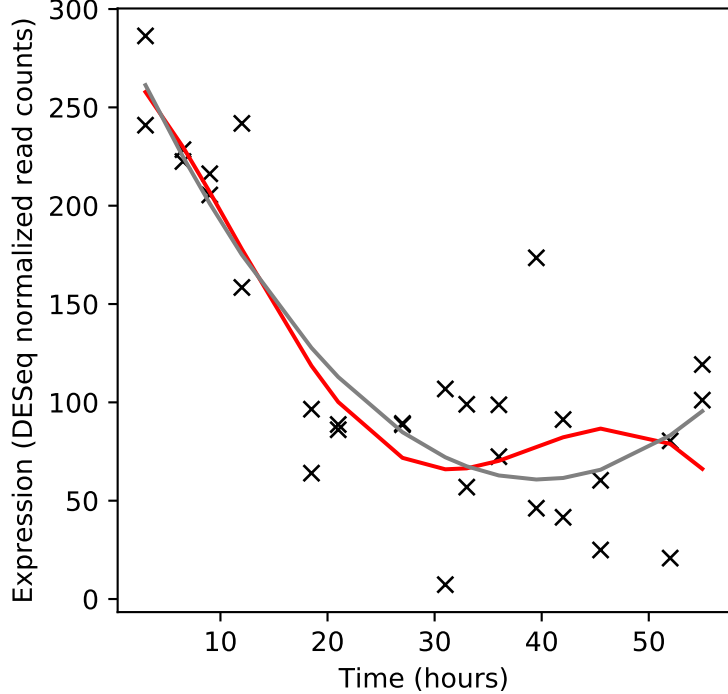
Rv3491/-



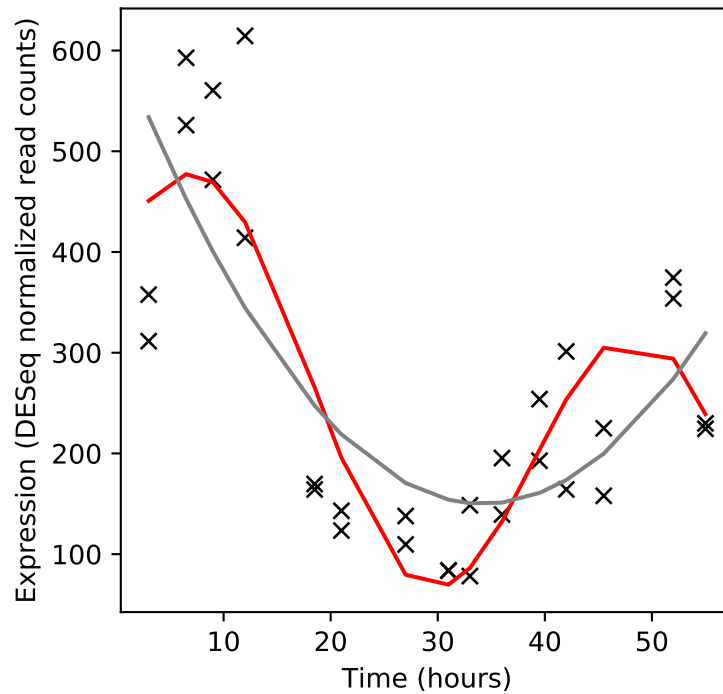
Rv3492c/-



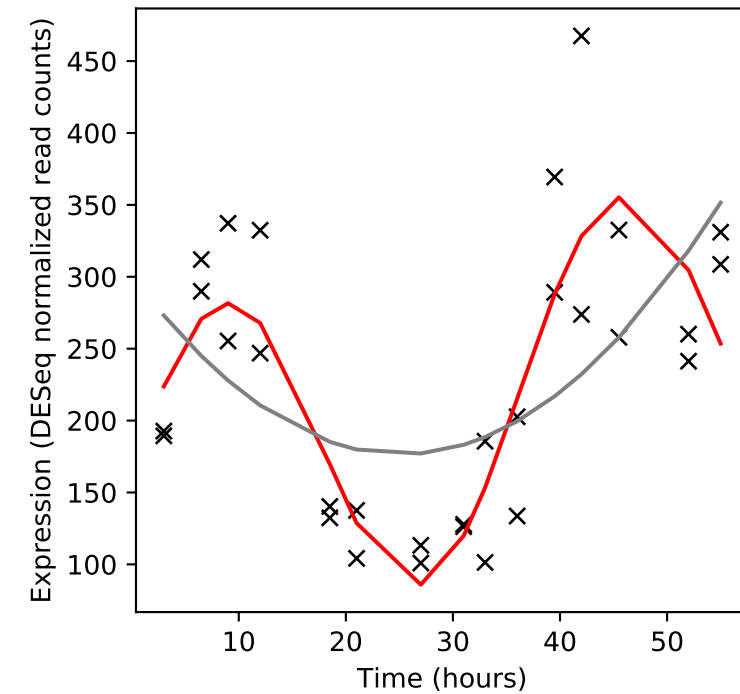
Rv3493c/-



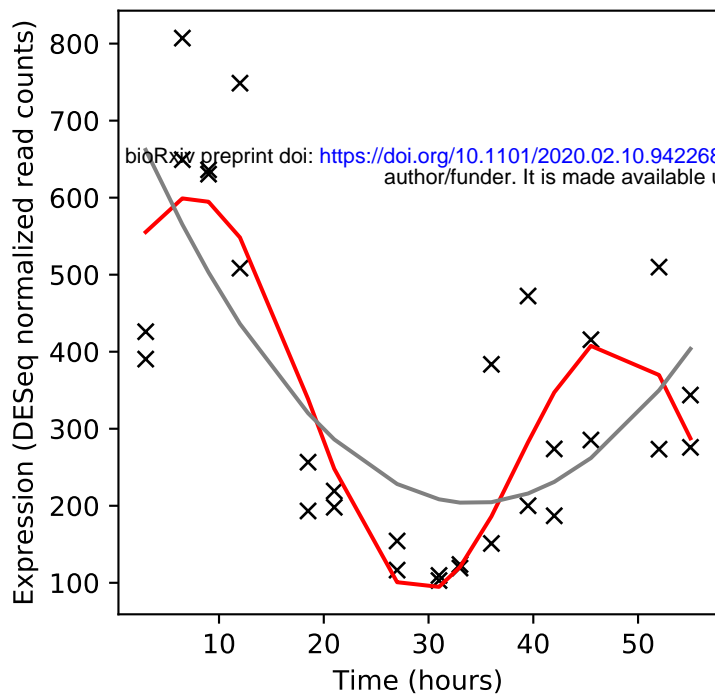
Rv3494c/mce4F



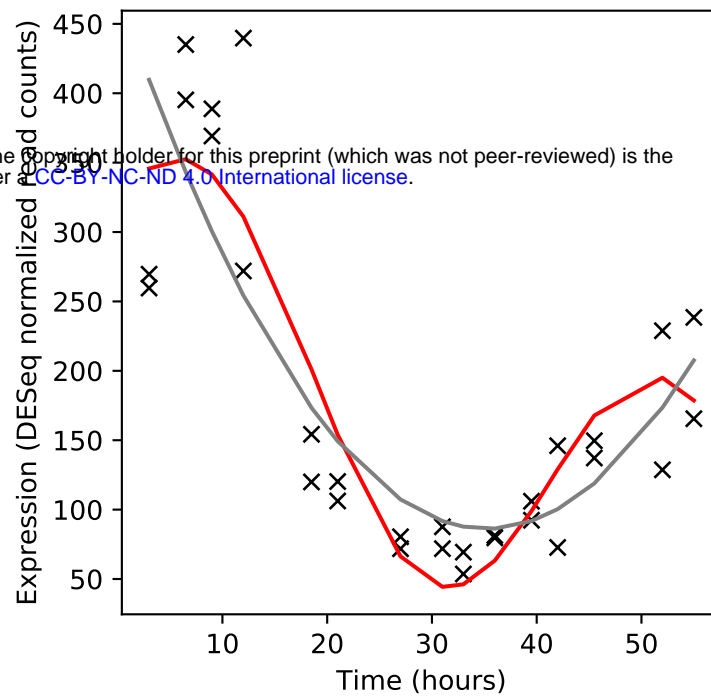
Rv3495c/lprN



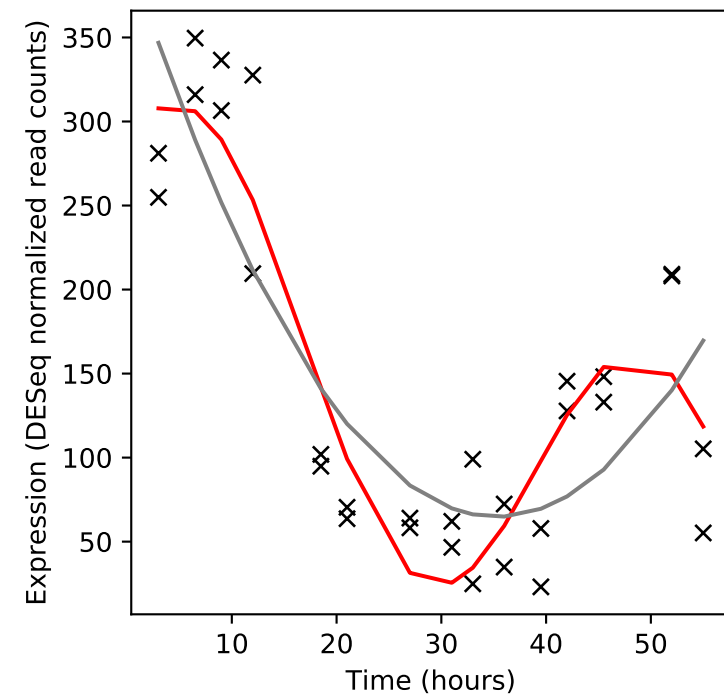
Rv3496c/mce4D



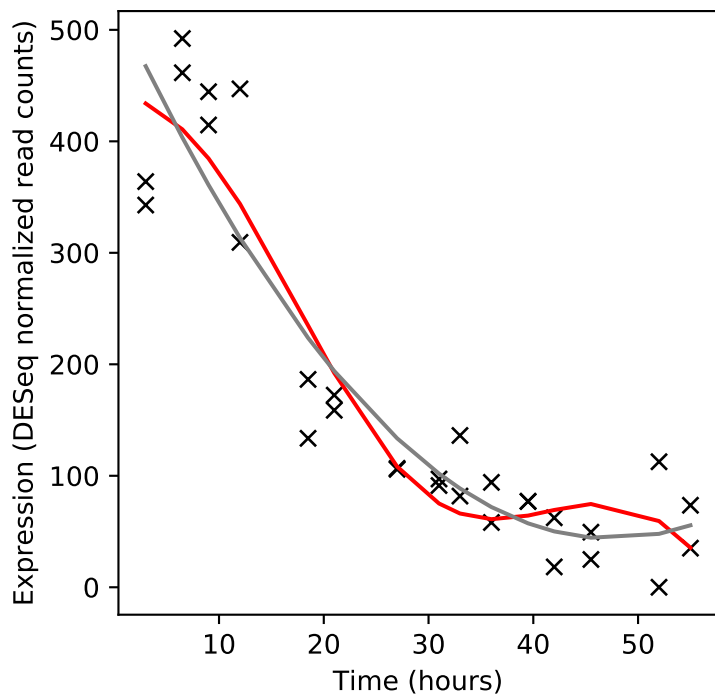
Rv3497c/mce4C



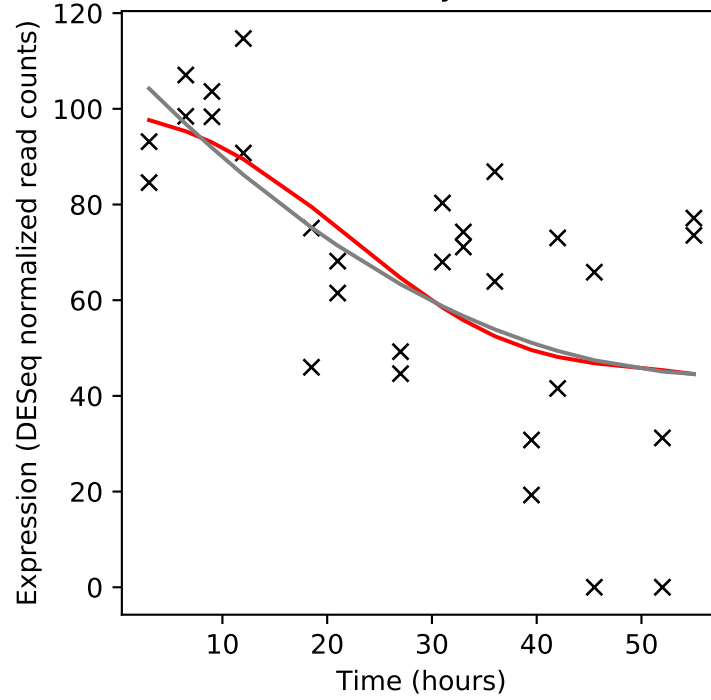
Rv3498c/mce4B



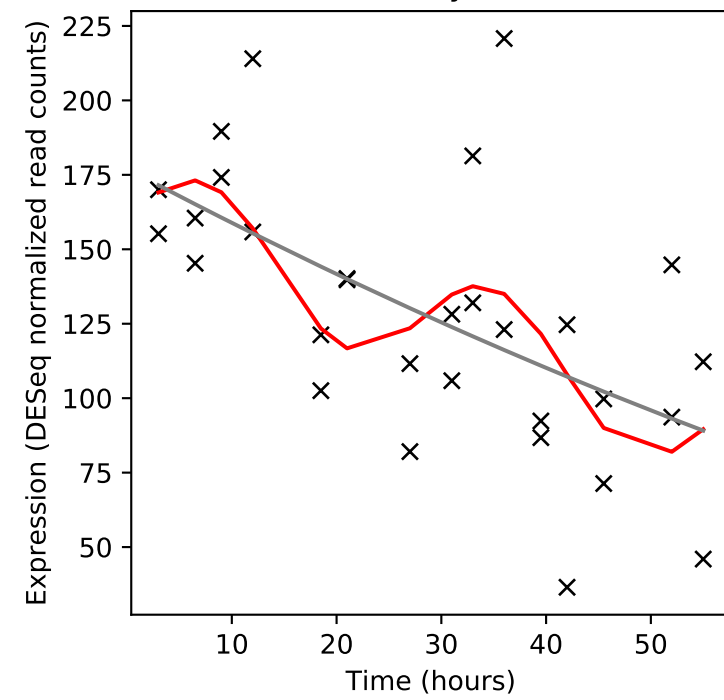
Rv3499c/mce4A



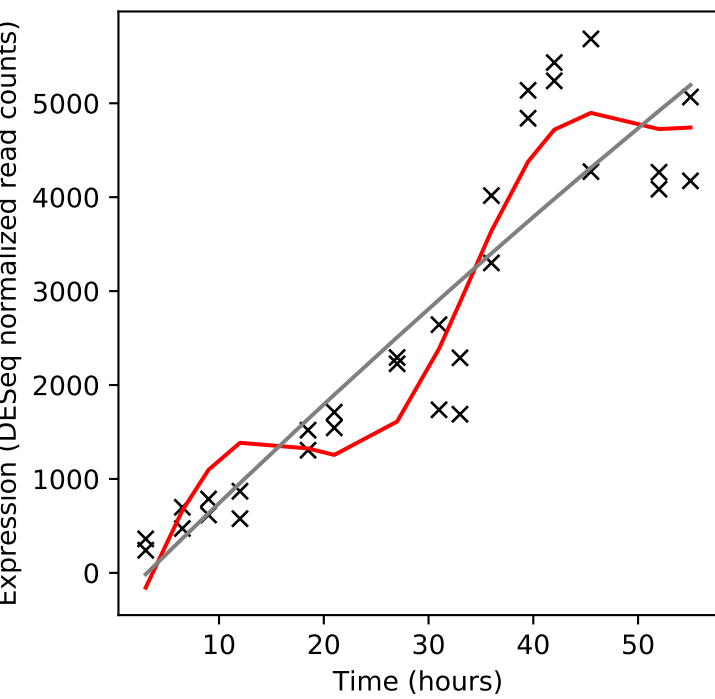
Rv3500c/yrbE4B



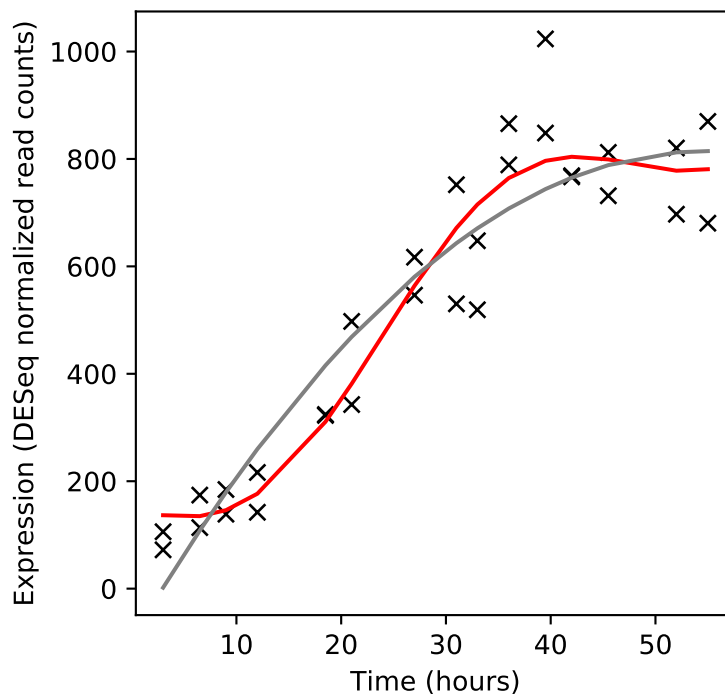
Rv3501c/yrbE4A



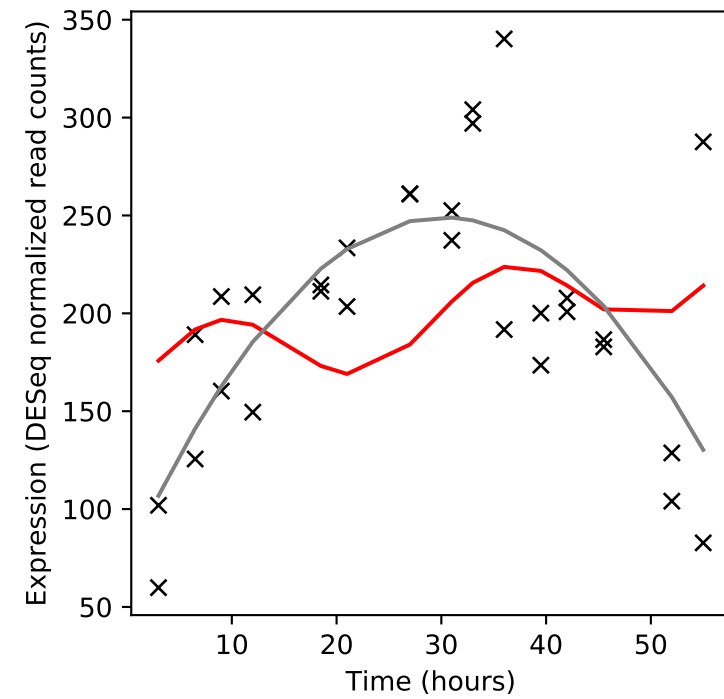
Rv3502c/-



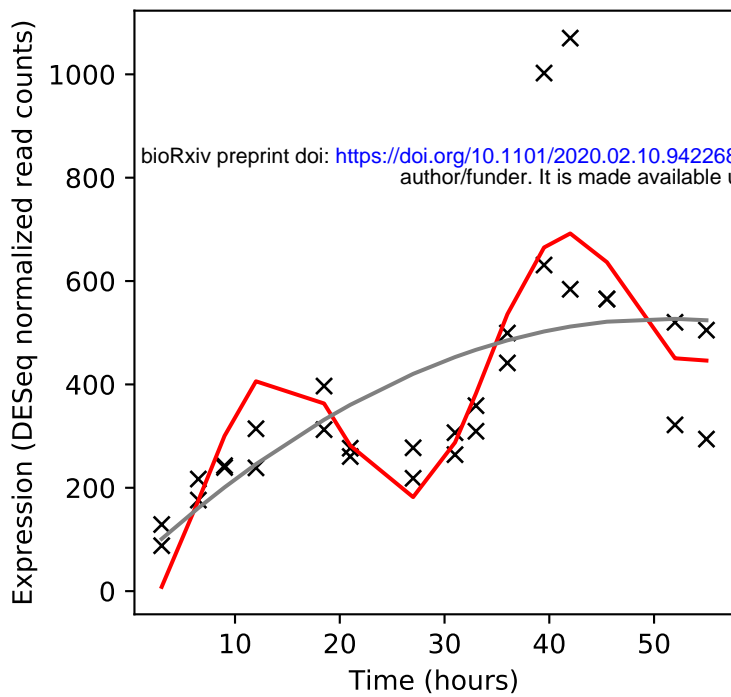
Rv3503c/fdxD



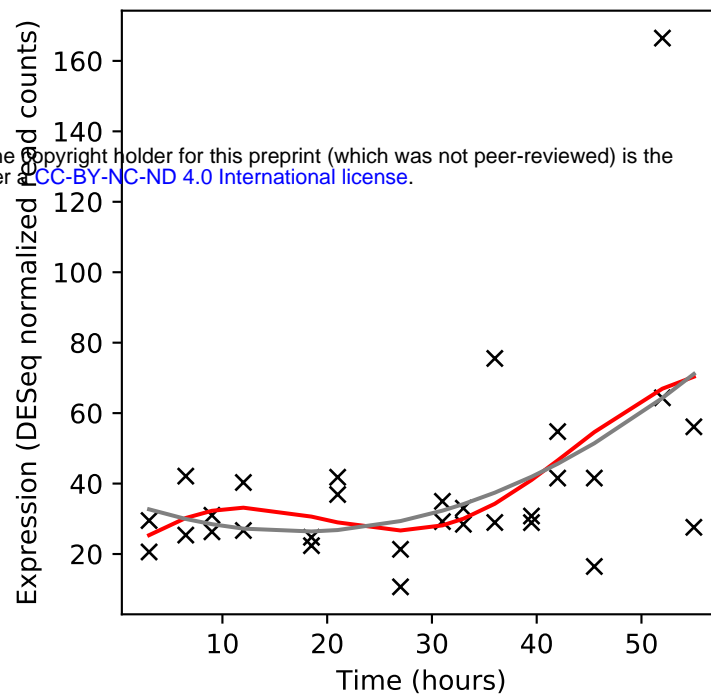
Rv3504/fadE26



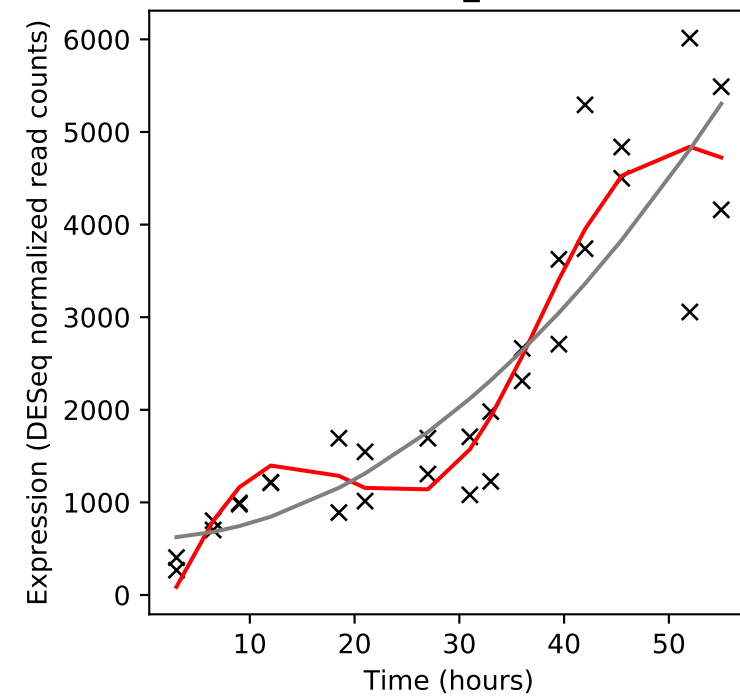
Rv3505/fadE27



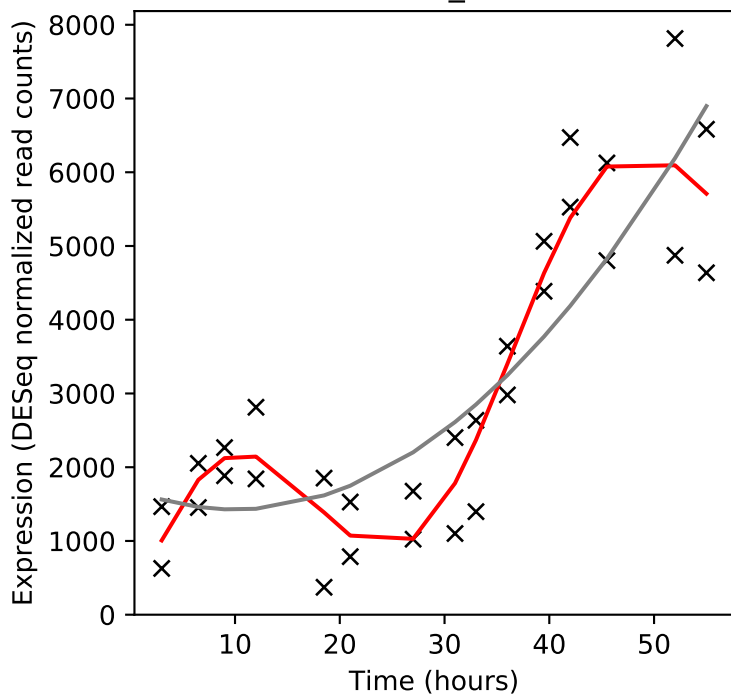
Rv3506/fadD17



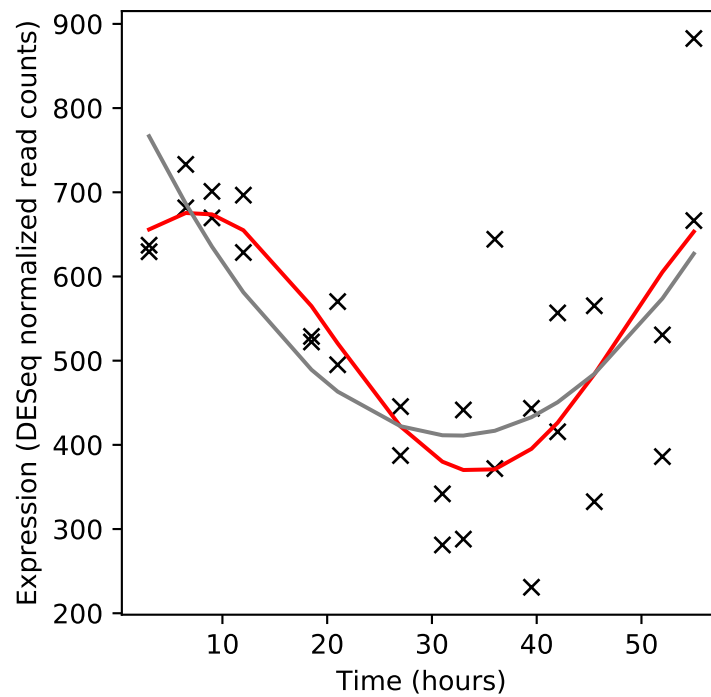
Rv3507/PE_PGRS53



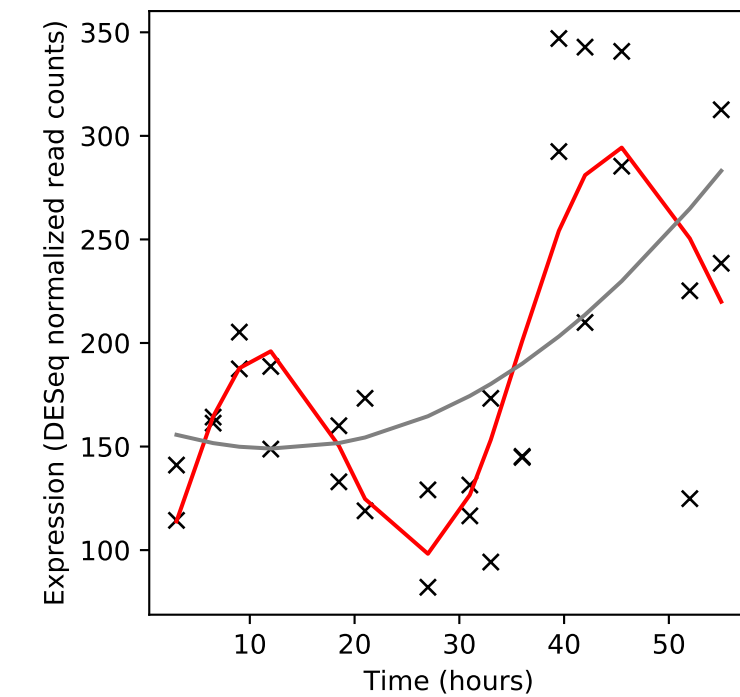
Rv3508/PE_PGRS54



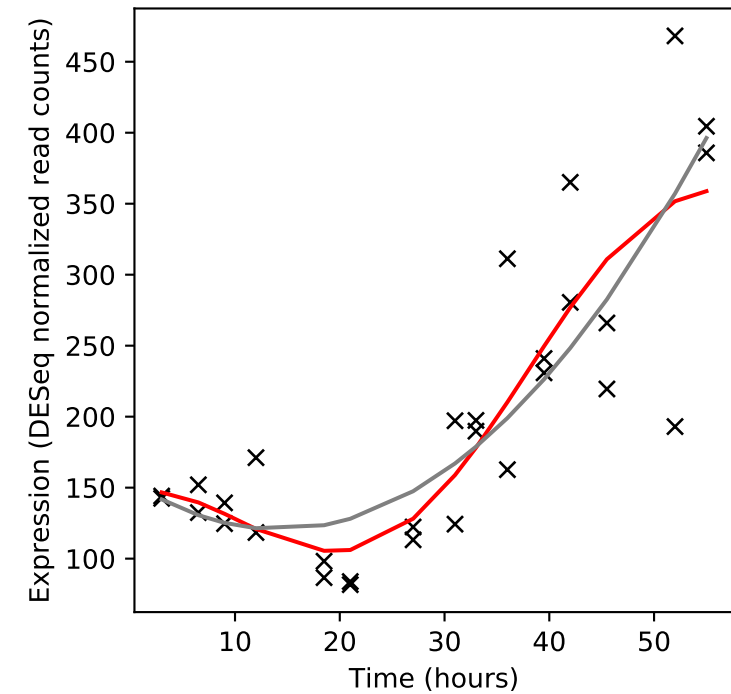
Rv3509c/ilvX



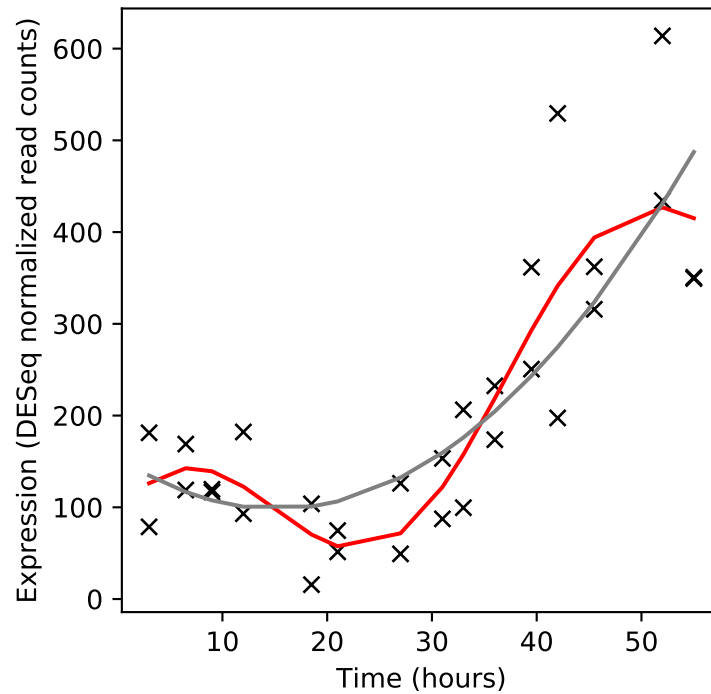
Rv3510c/-



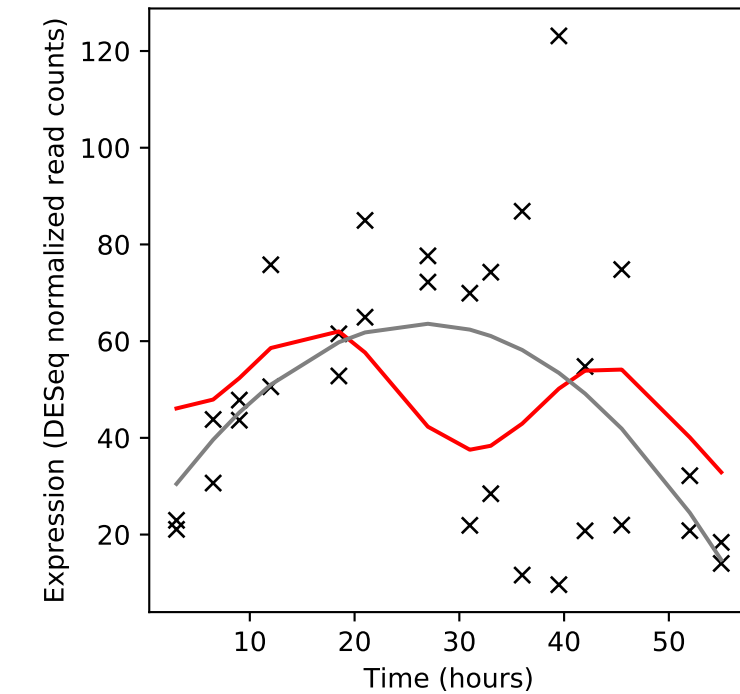
Rv3511/PE_PGRS55



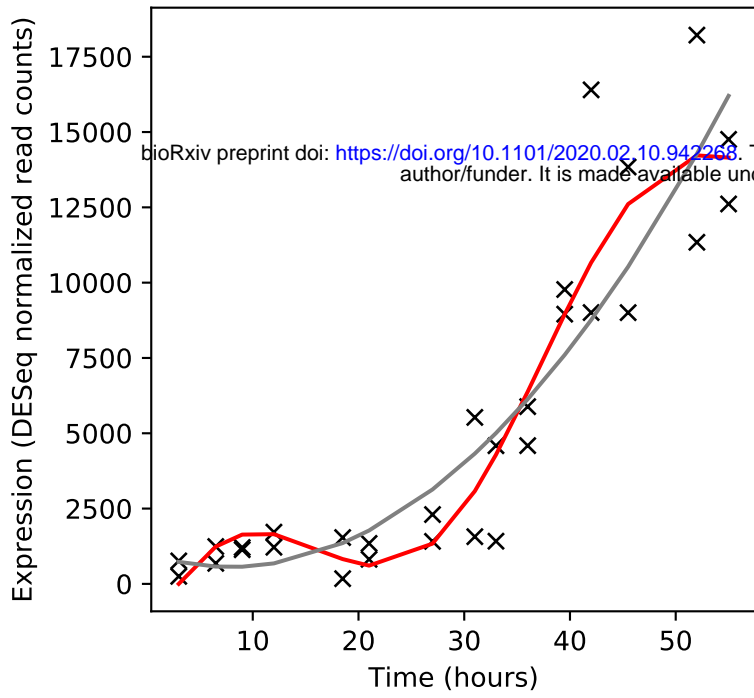
Rv3512/PE_PGRS56



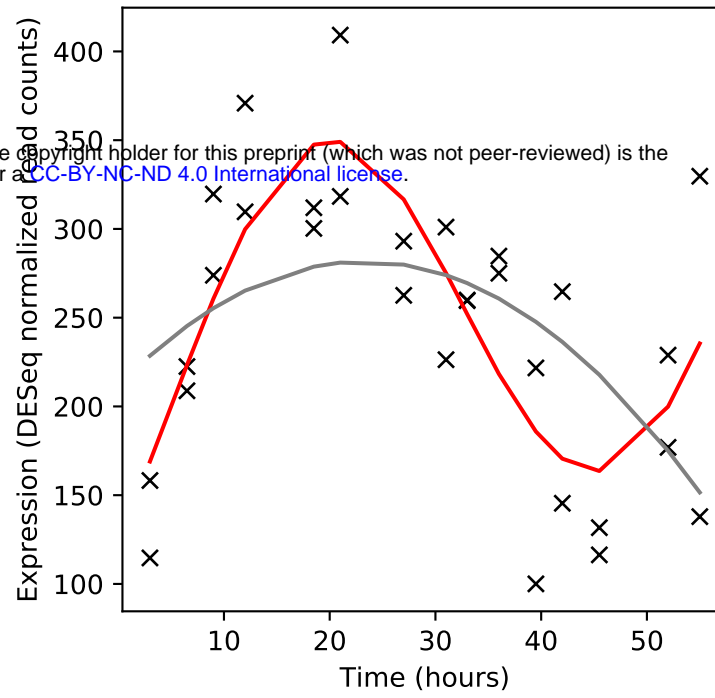
Rv3513c/fadD18



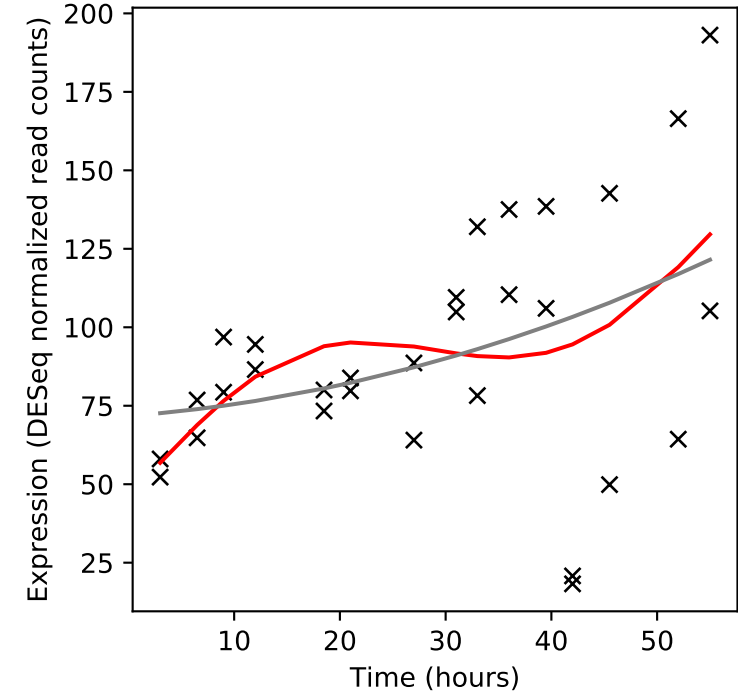
Rv3514/PE_PGRS57



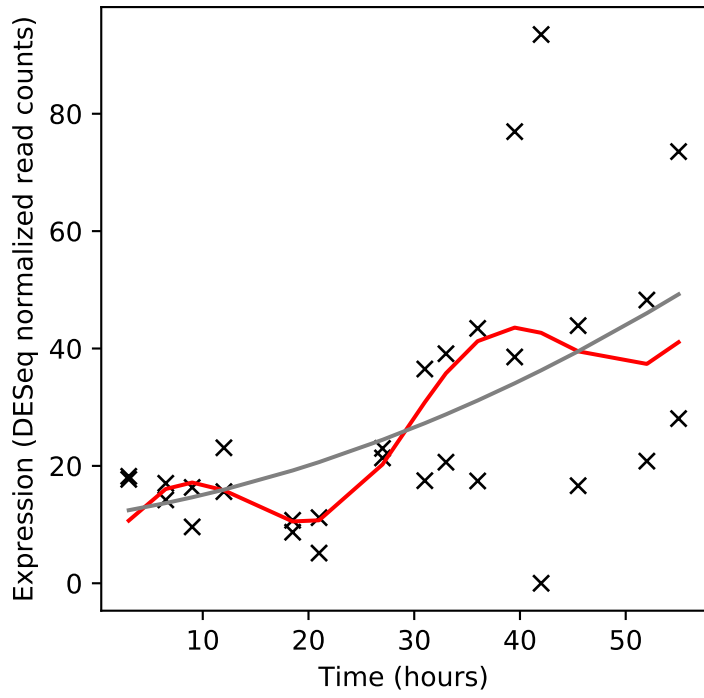
Rv3515c/fadD19



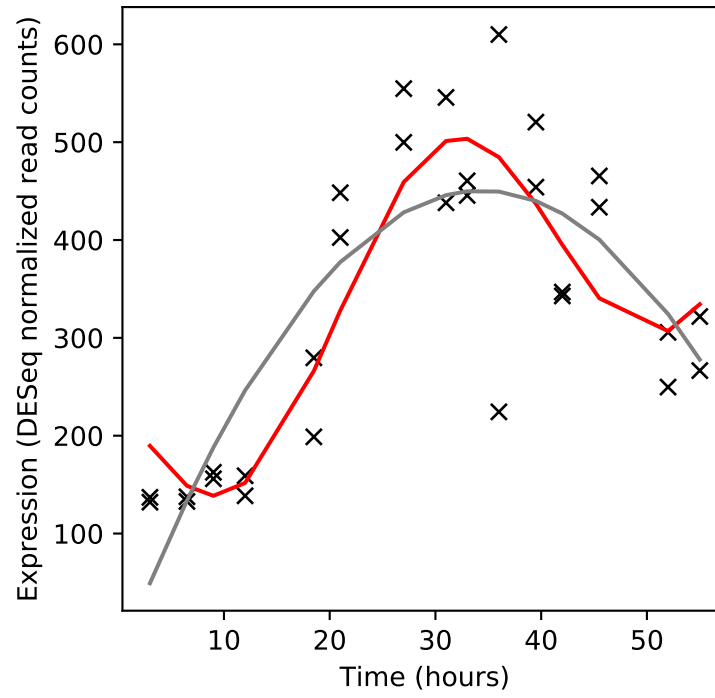
Rv3516/echA19



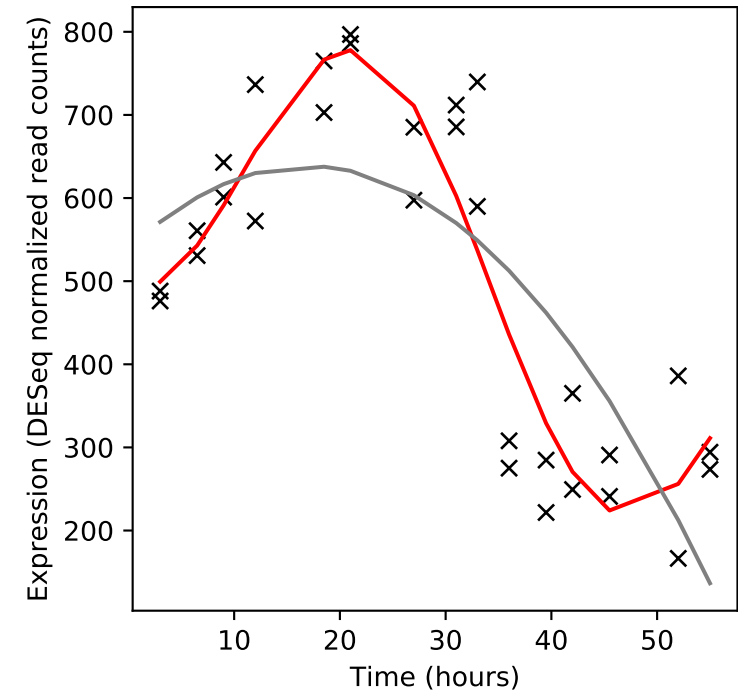
Rv3517/-



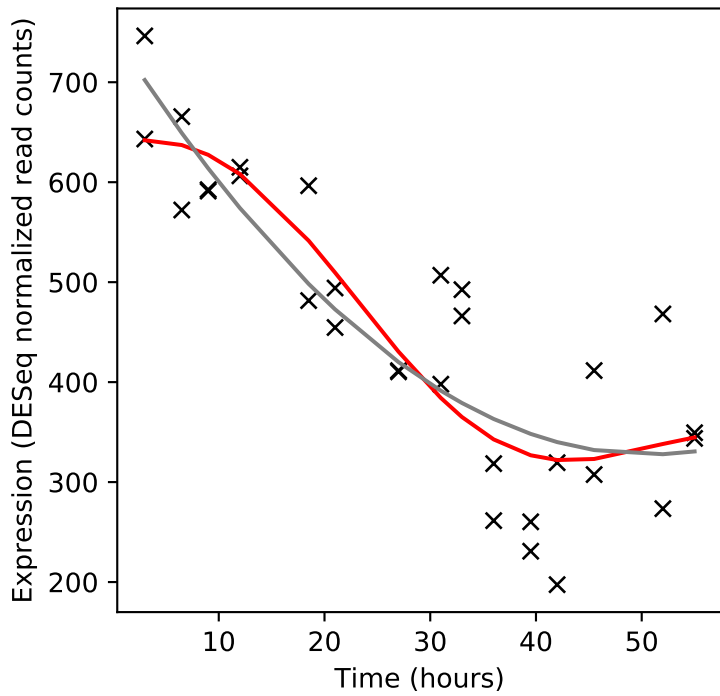
Rv3518c/cyp142



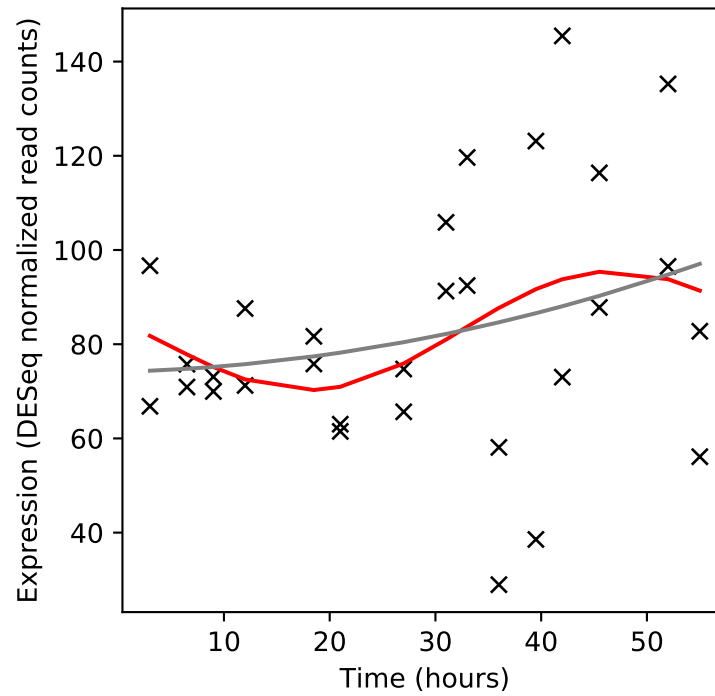
Rv3519/-



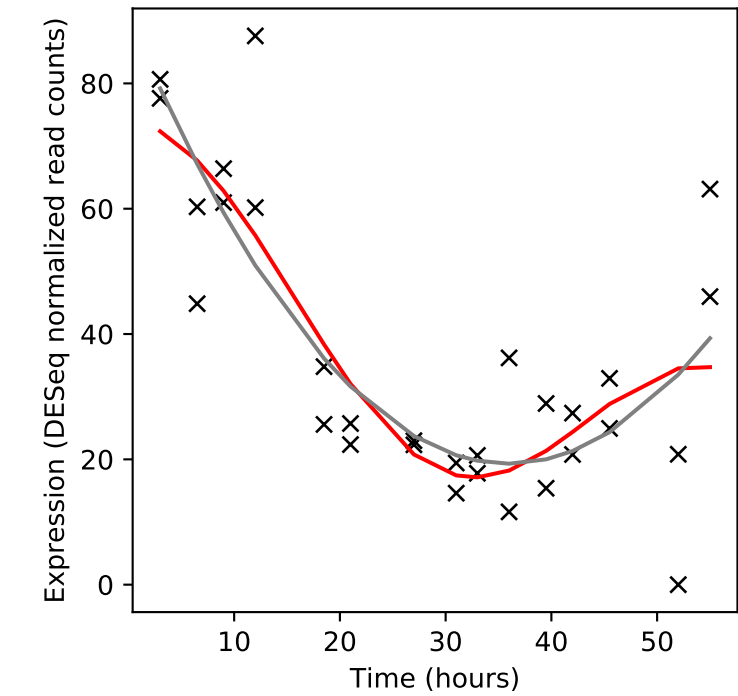
Rv3520c/-



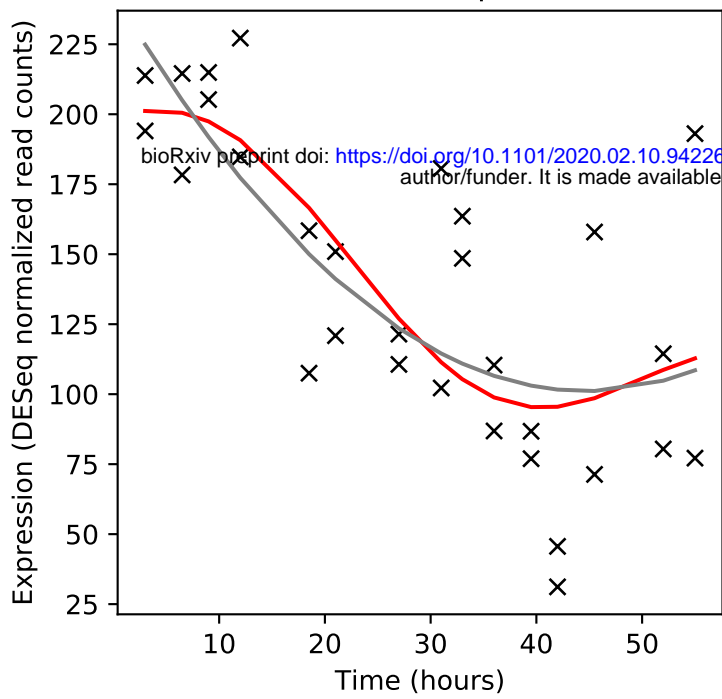
Rv3521/-



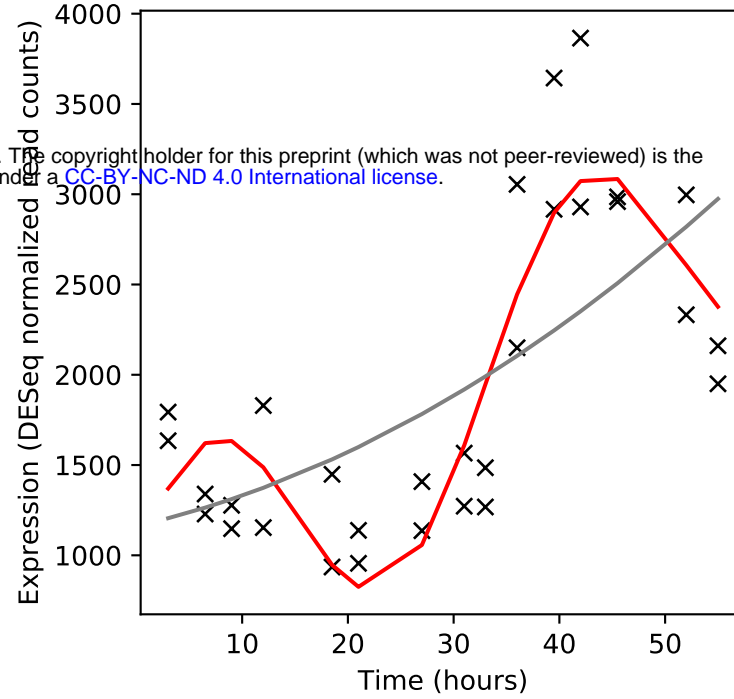
Rv3522/ltp4



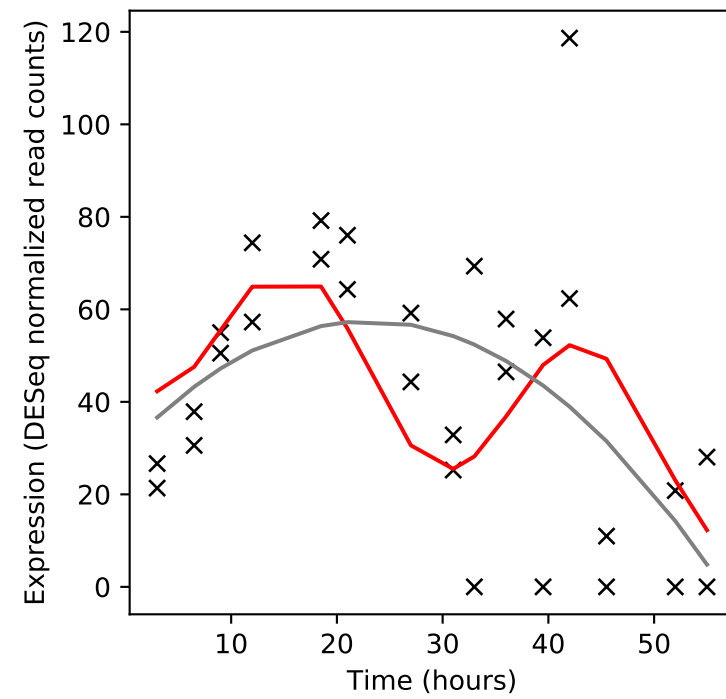
Rv3523/ltp3



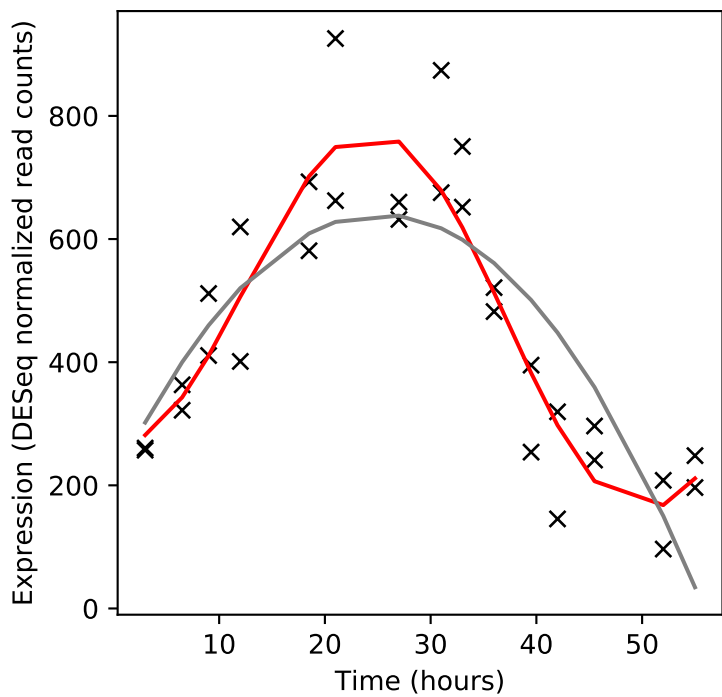
Rv3524/-



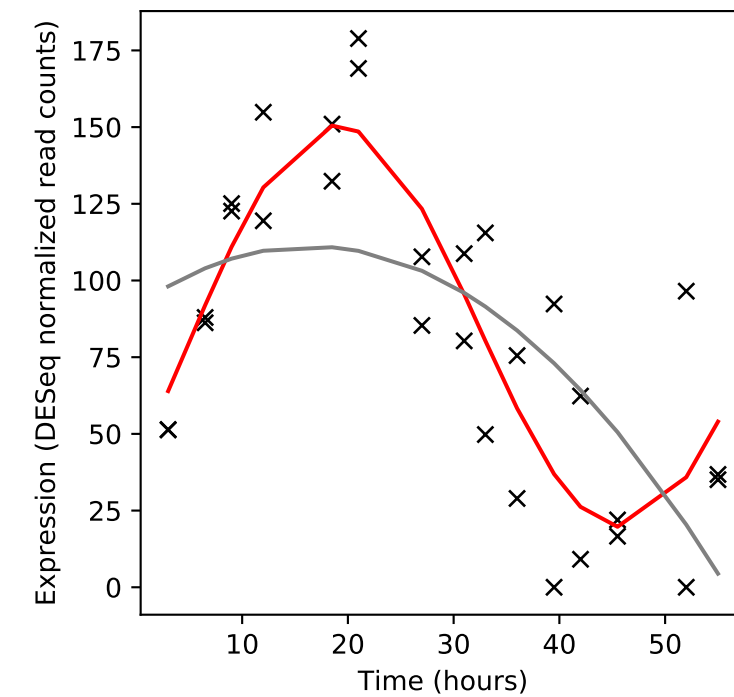
Rv3525c/-



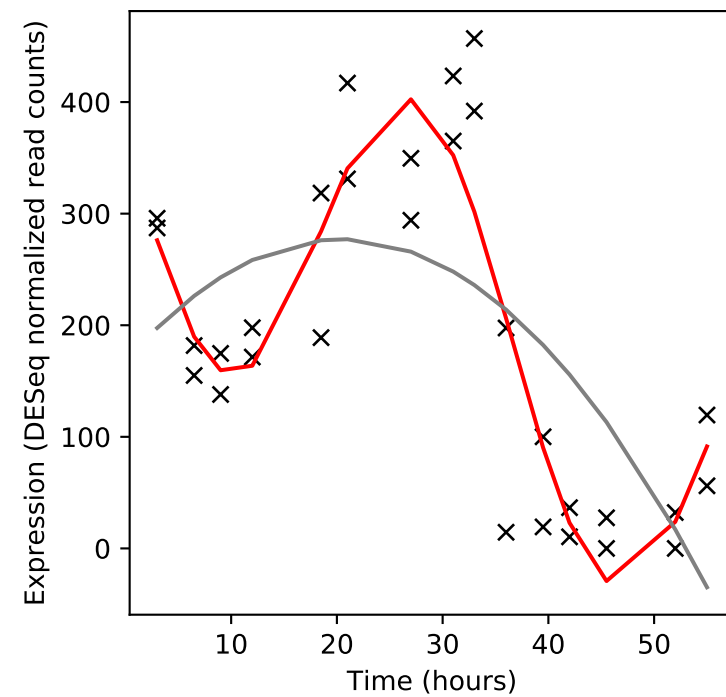
Rv3526/kshA



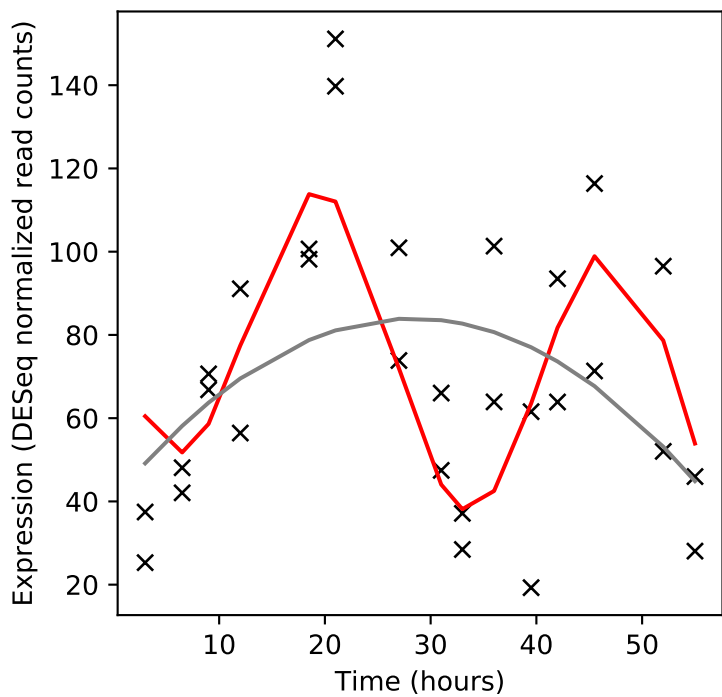
Rv3527/-



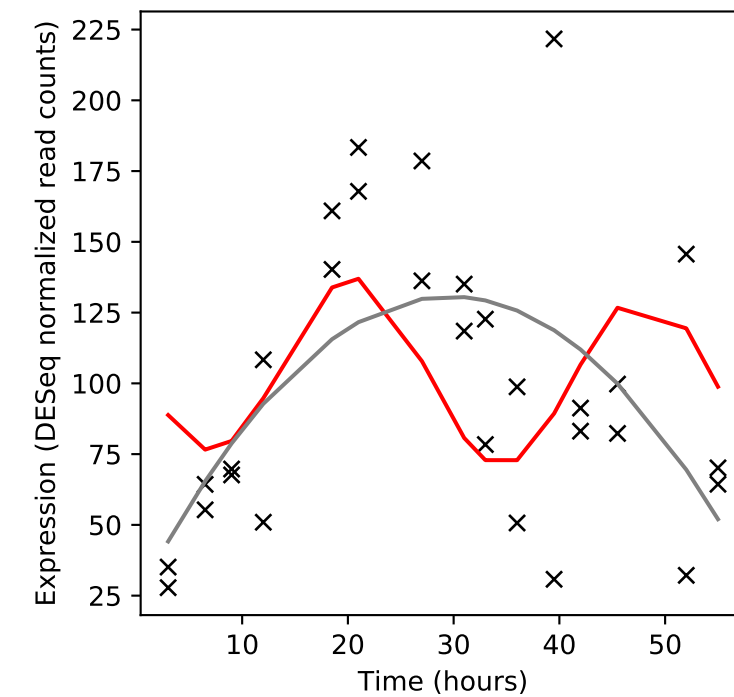
Rv3528c/-



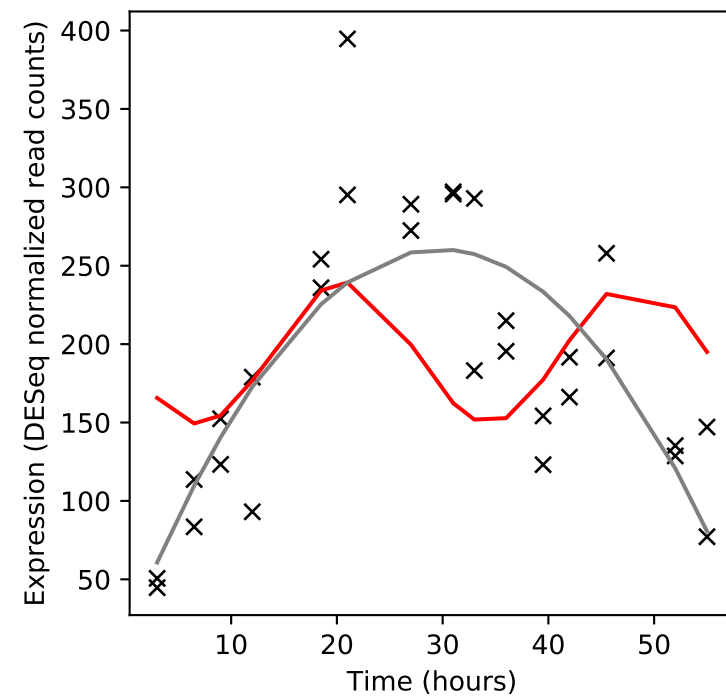
Rv3529c/-



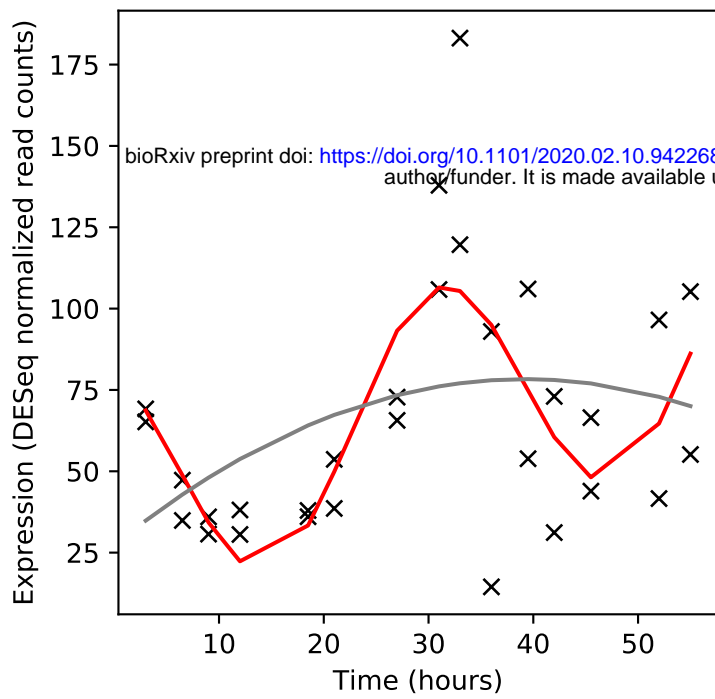
Rv3530c/-



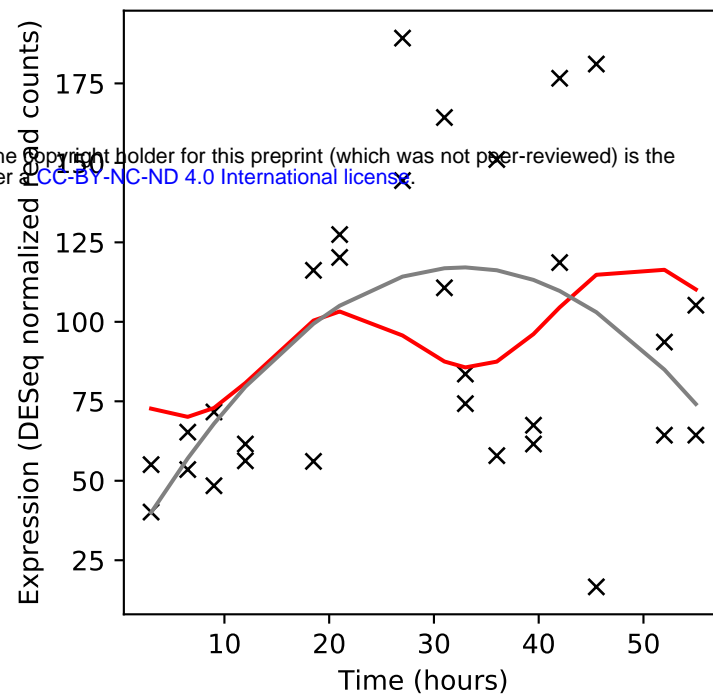
Rv3531c/-



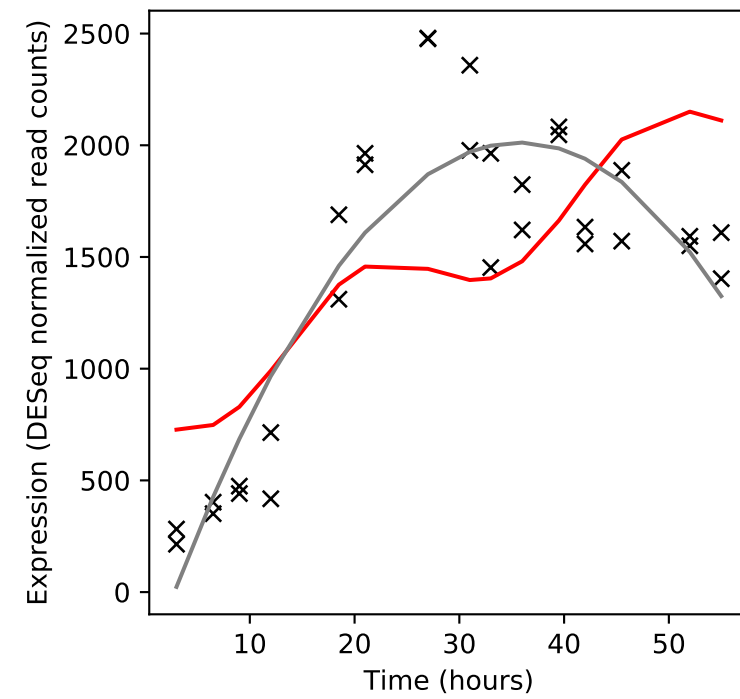
Rv3532/PPE61



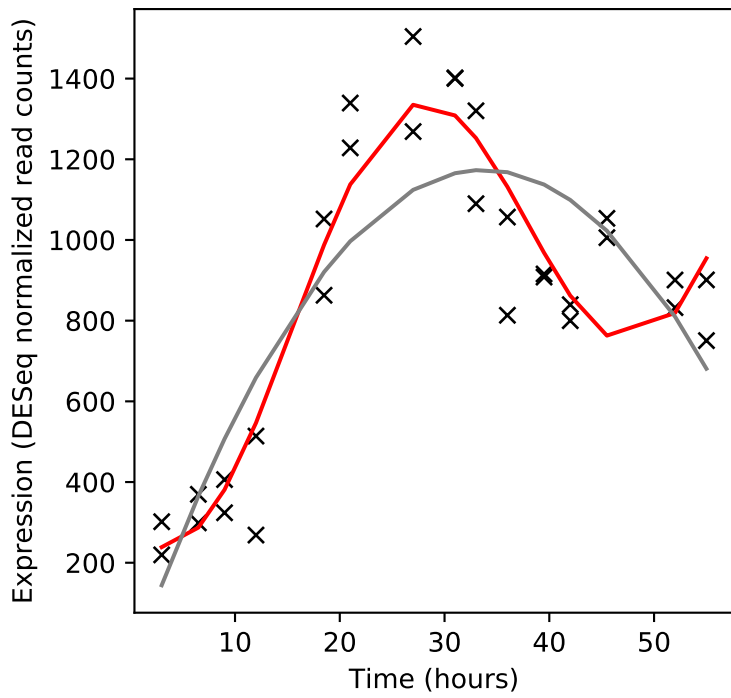
Rv3533c/PPE62



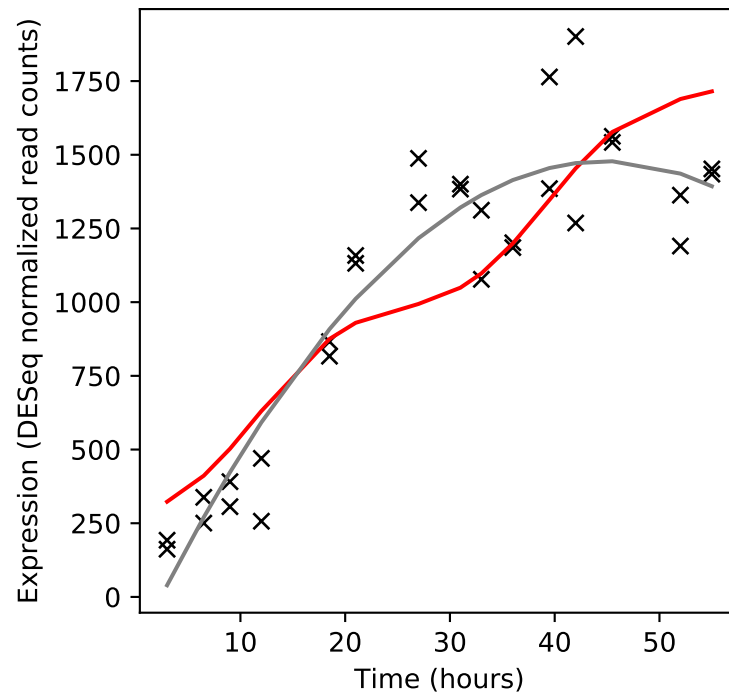
Rv3534c/hsaF



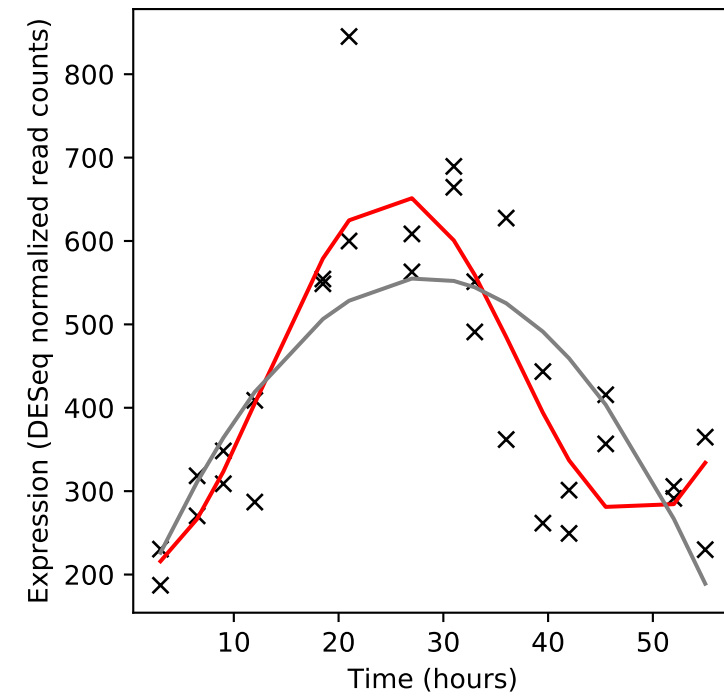
Rv3535c/hsaG



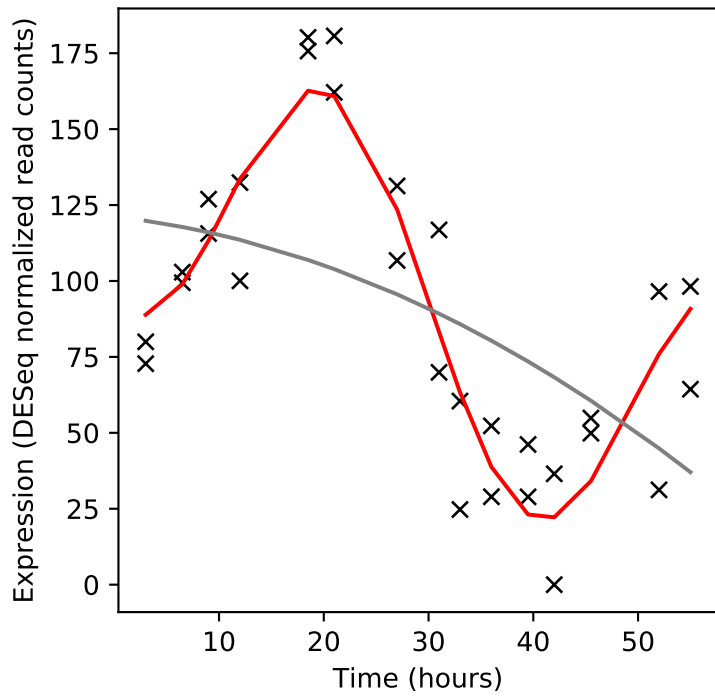
Rv3536c/hsaE



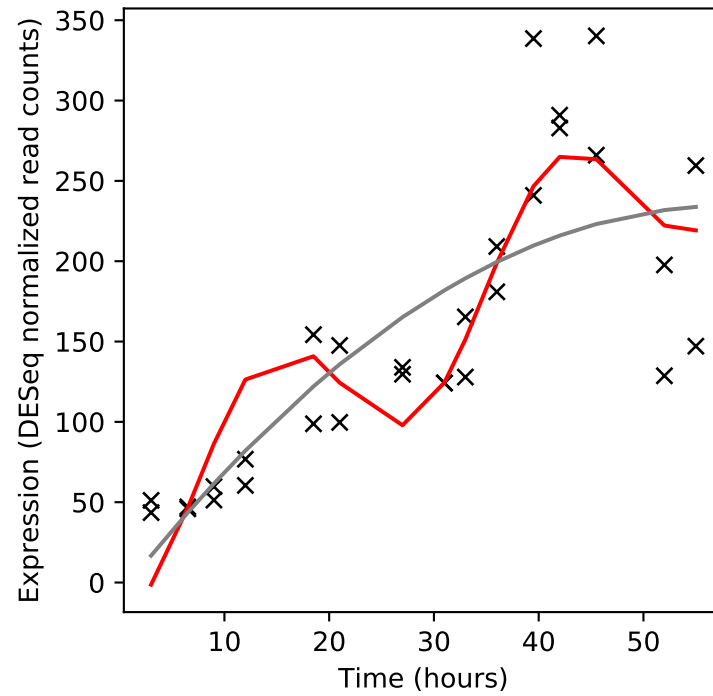
Rv3537/kstD



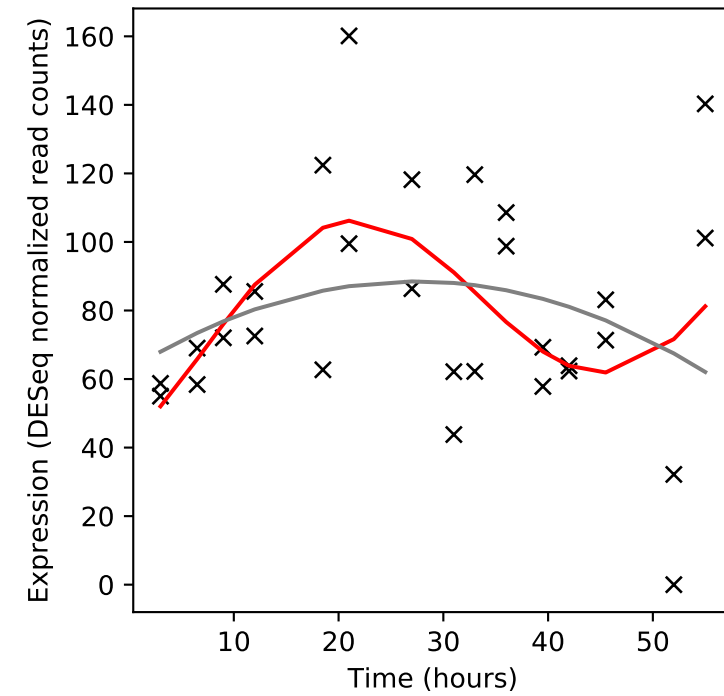
Rv3538/-



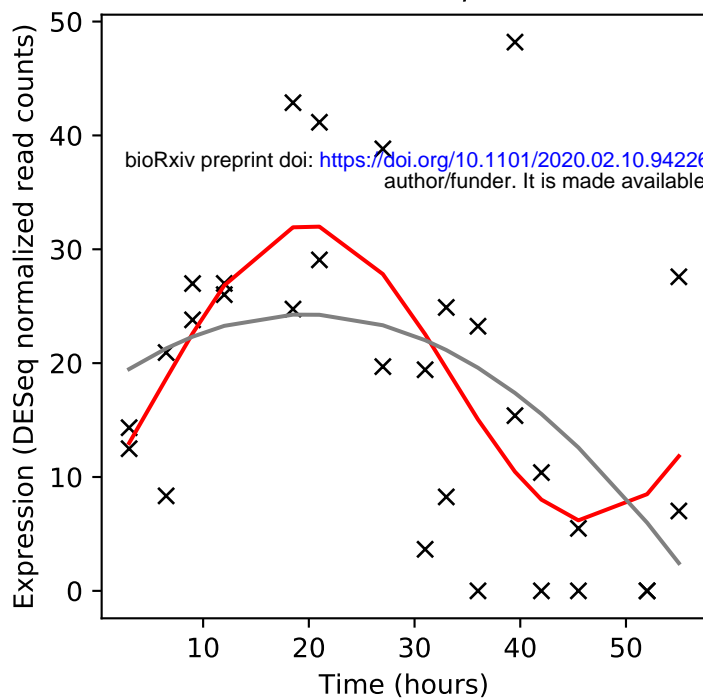
Rv3539/PPE63



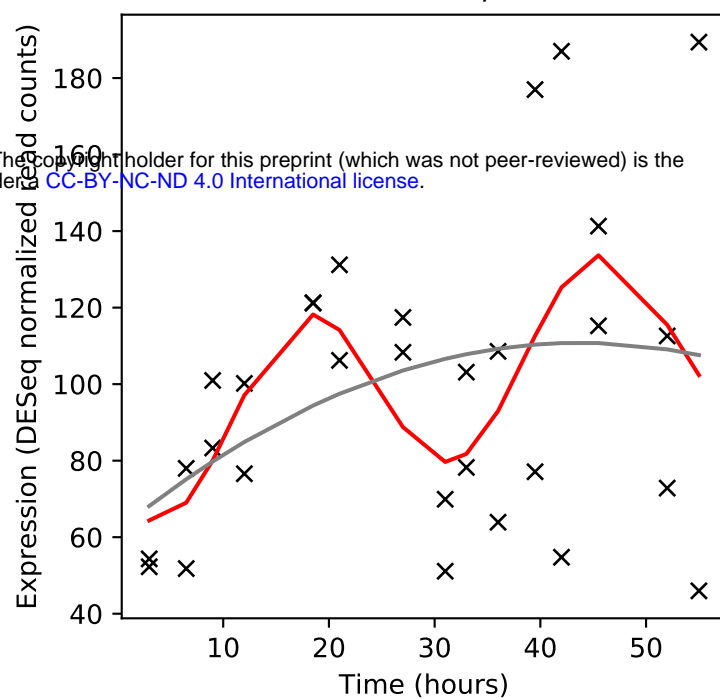
Rv3540c/ltp2



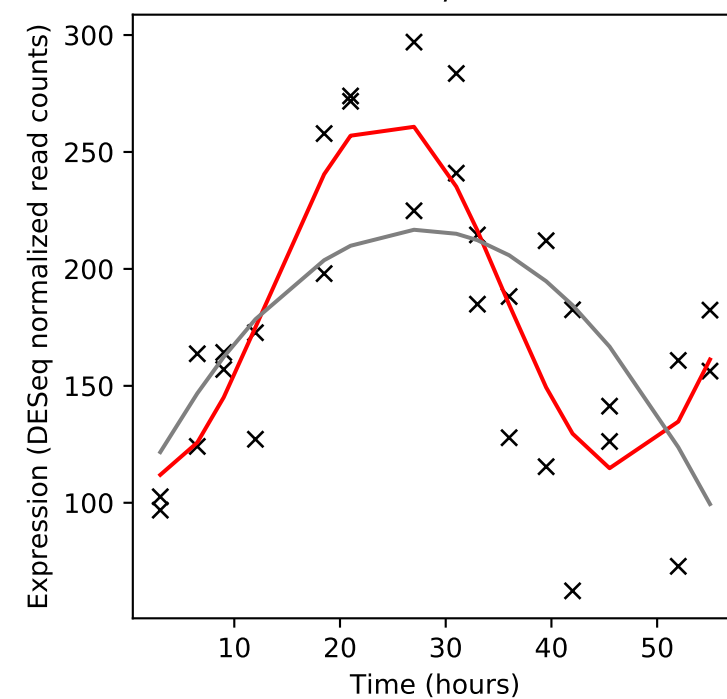
Rv3541c/-



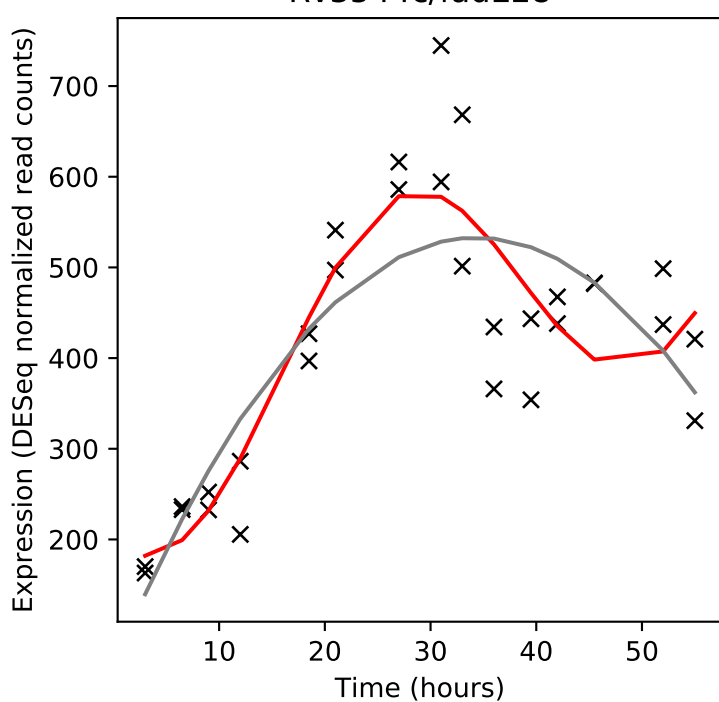
Rv3542c/-



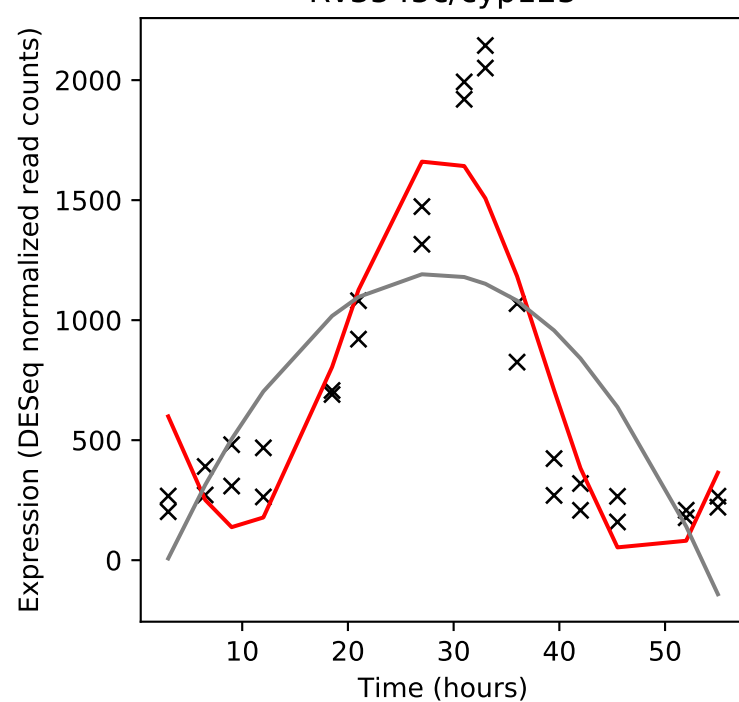
Rv3543c/fadE29



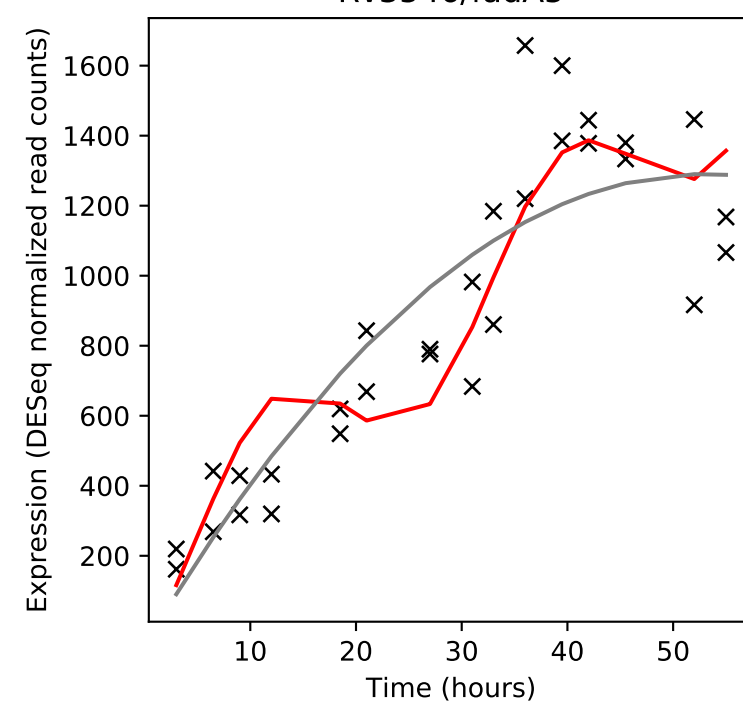
Rv3544c/fadE28



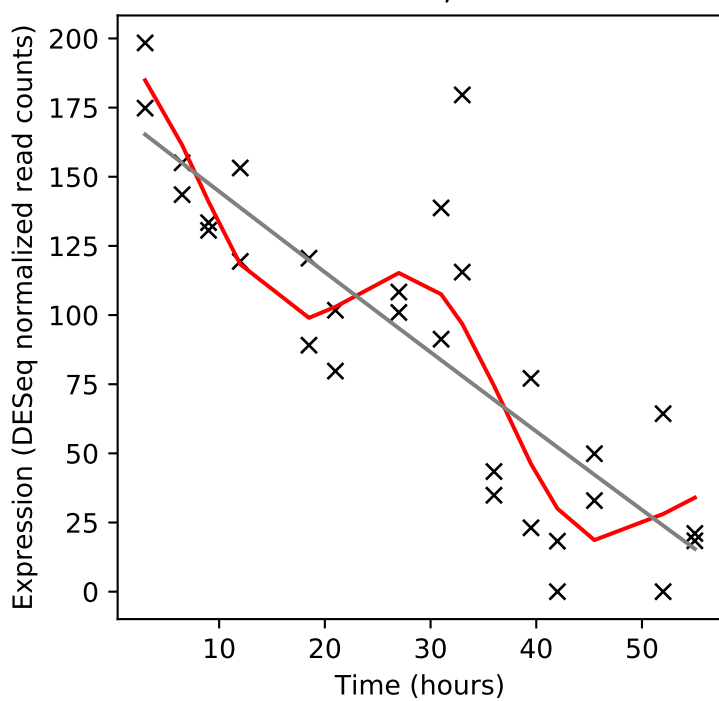
Rv3545c/cyp125



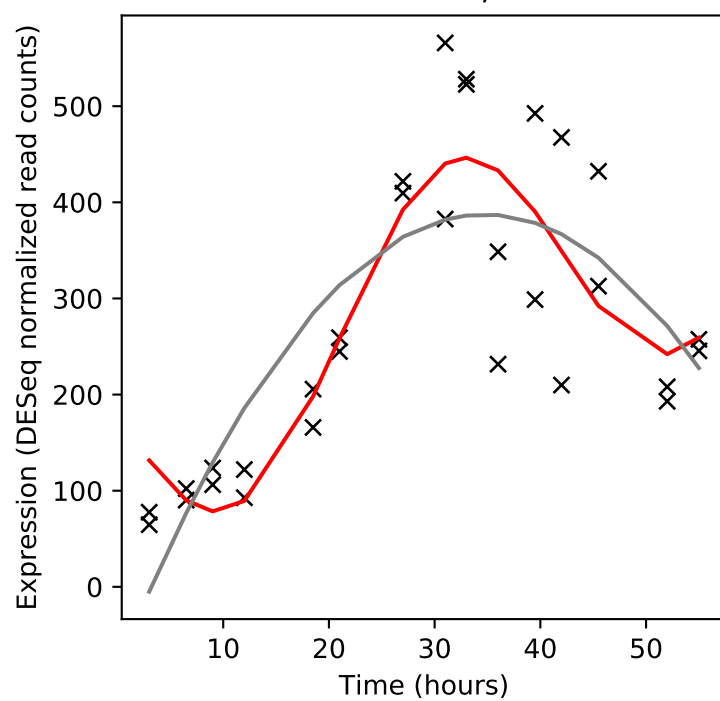
Rv3546/fadA5



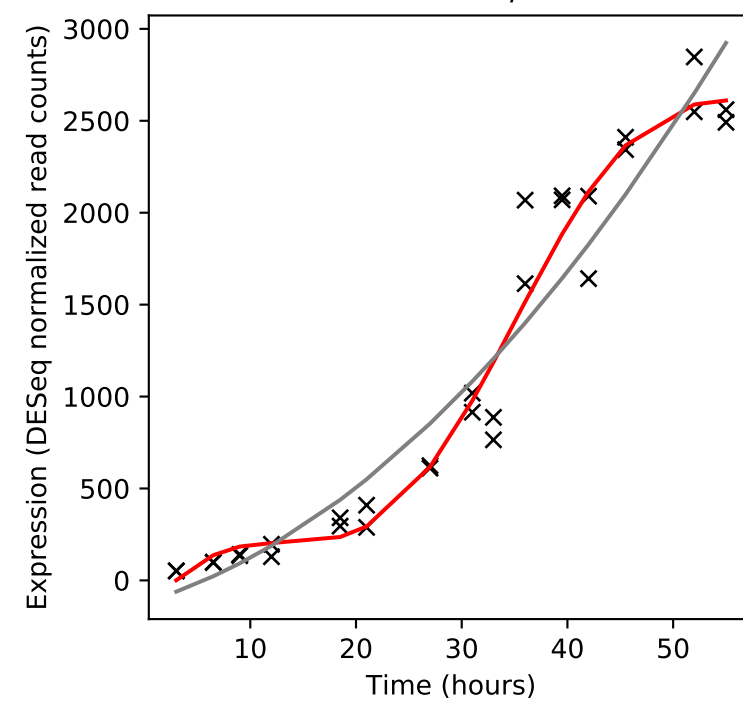
Rv3547/ddn



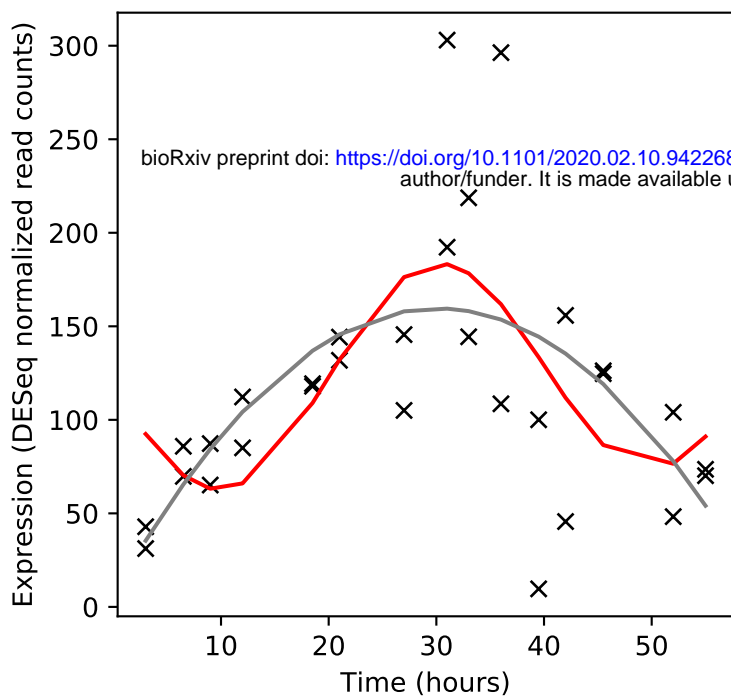
Rv3548c/-



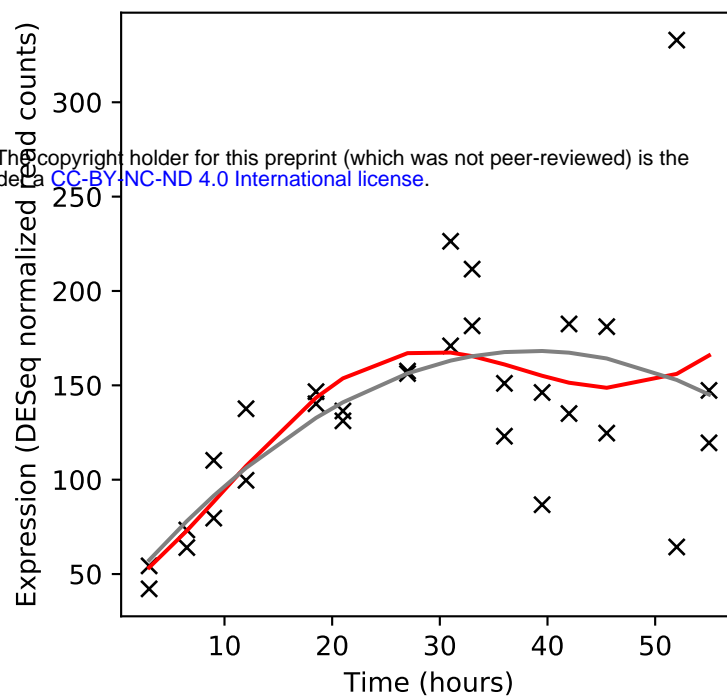
Rv3549c/-



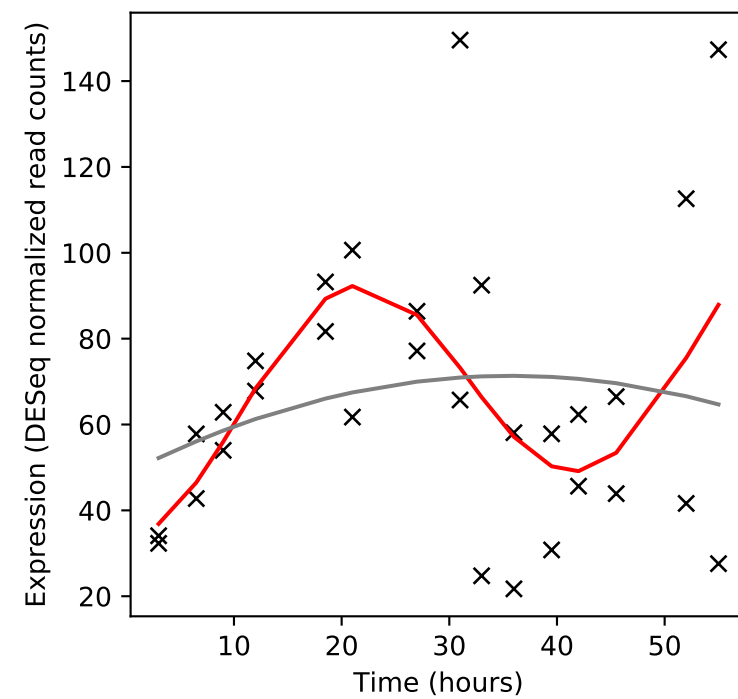
Rv3550/echA20



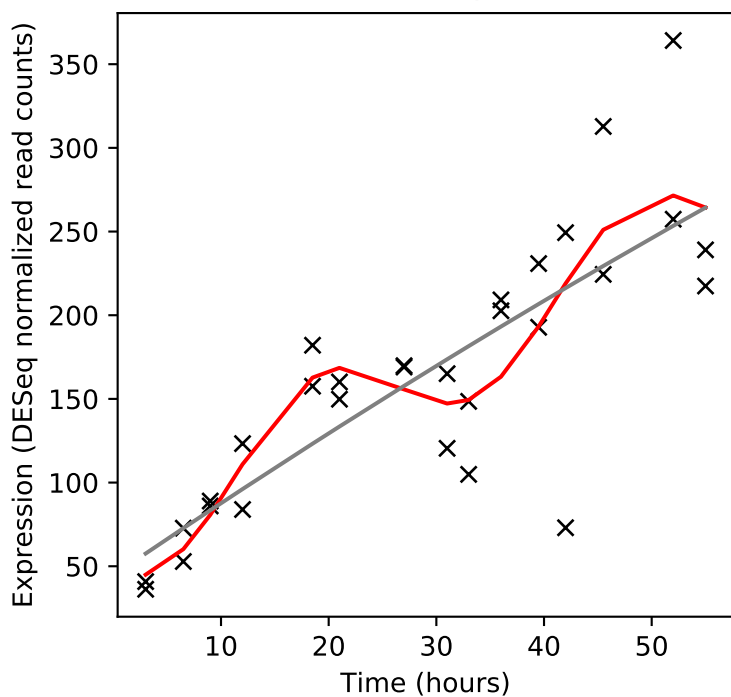
Rv3551/-



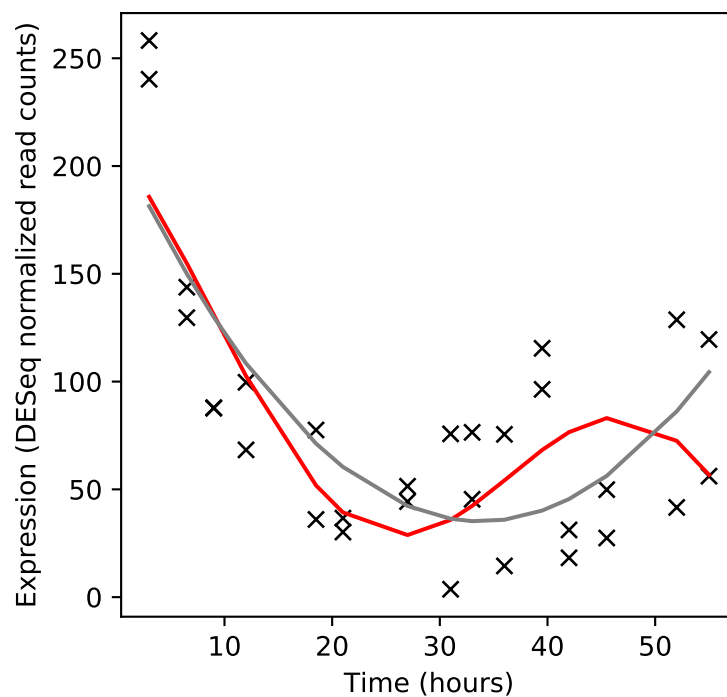
Rv3552/-



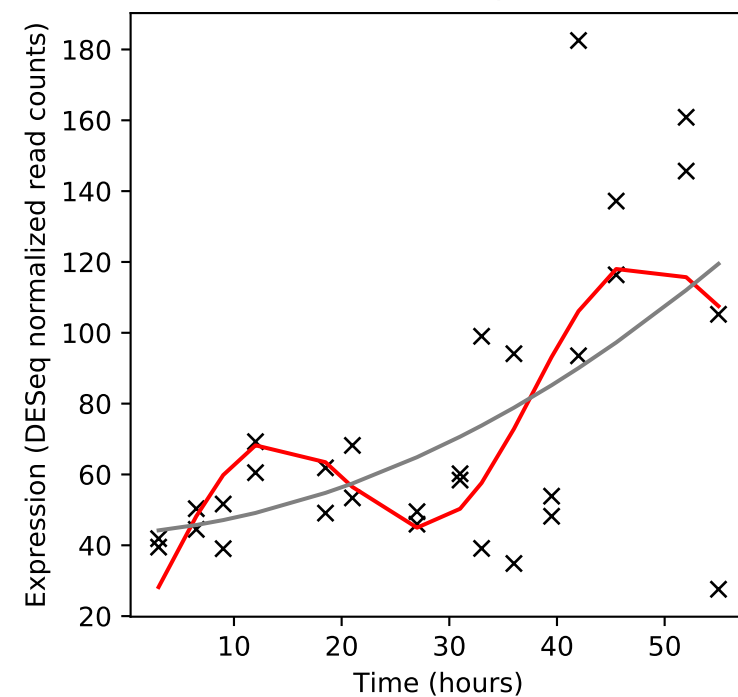
Rv3553/-



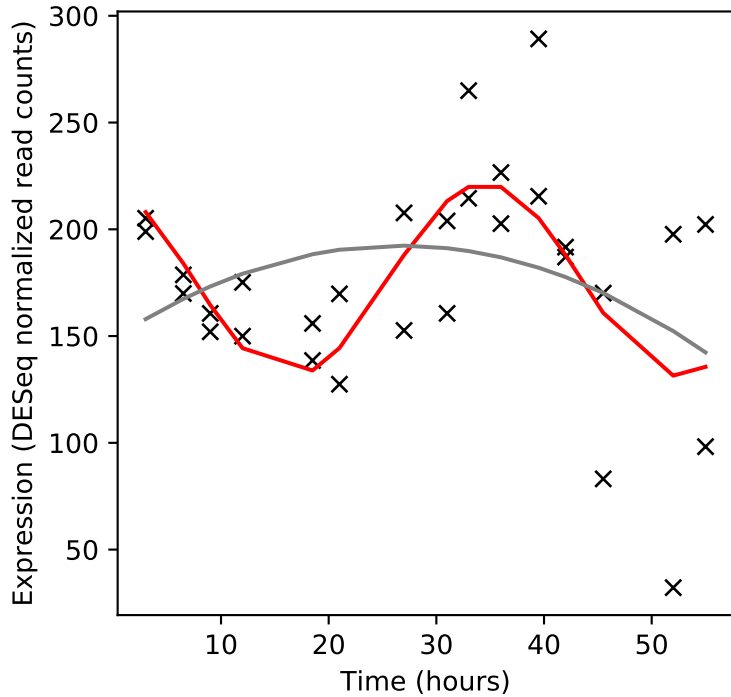
Rv3554/fdxB



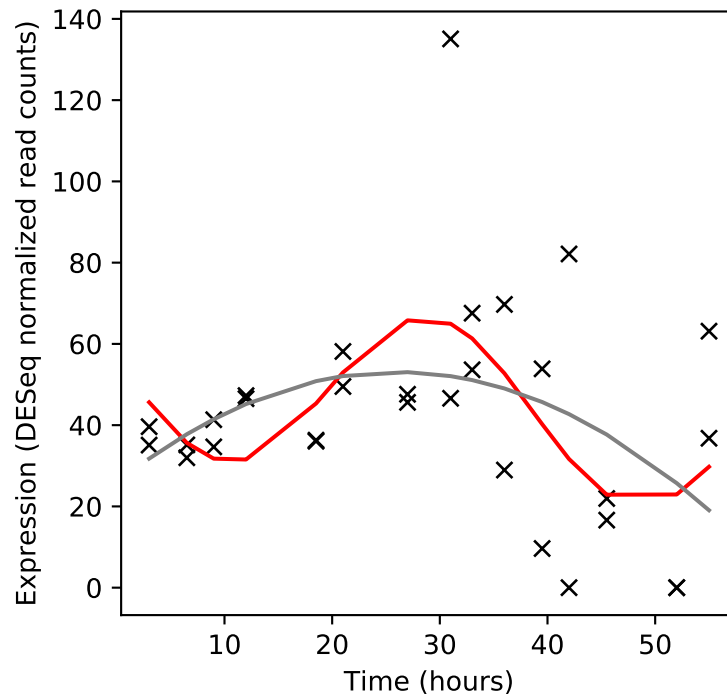
Rv3555c/-



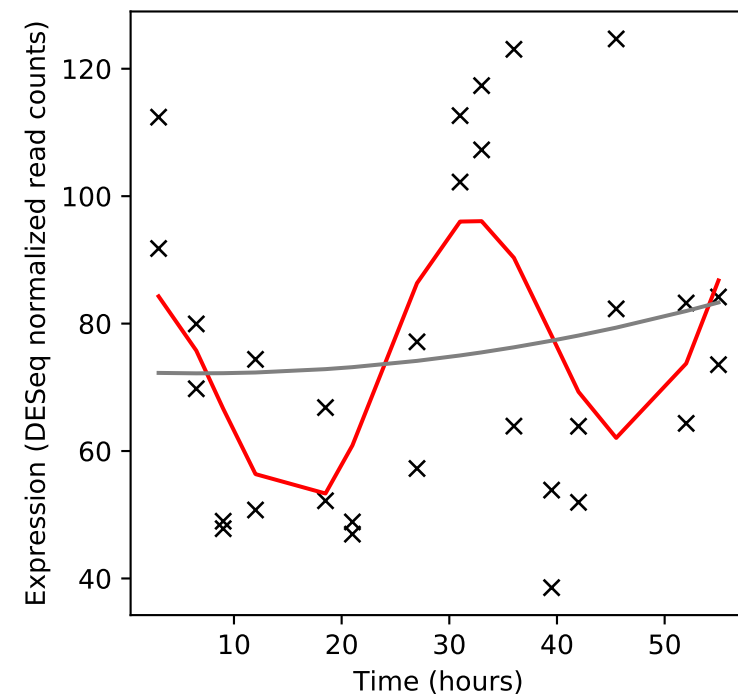
Rv3556c/fadA6



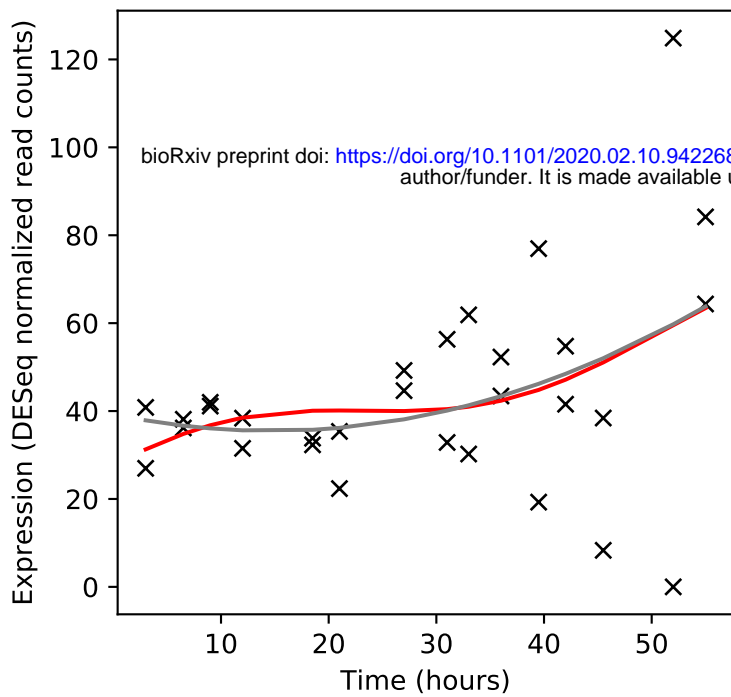
Rv3557c/-



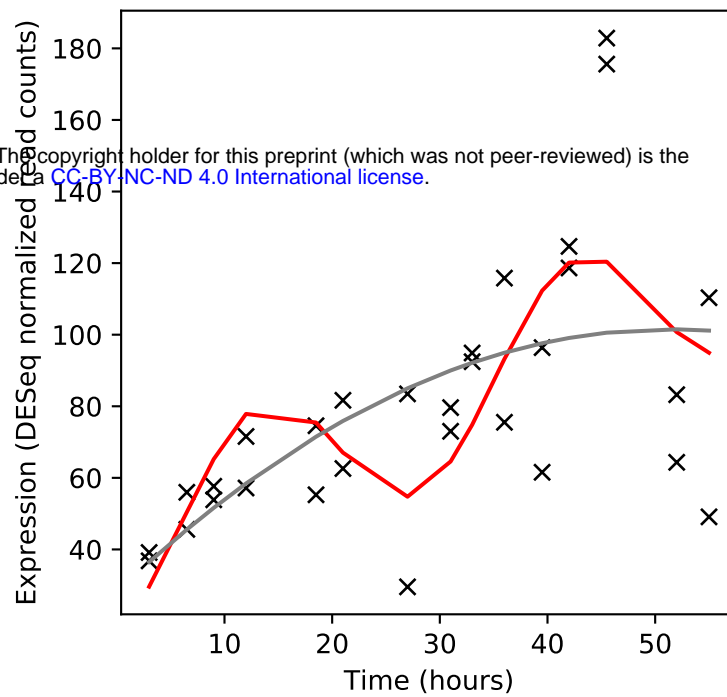
Rv3558/PPE64



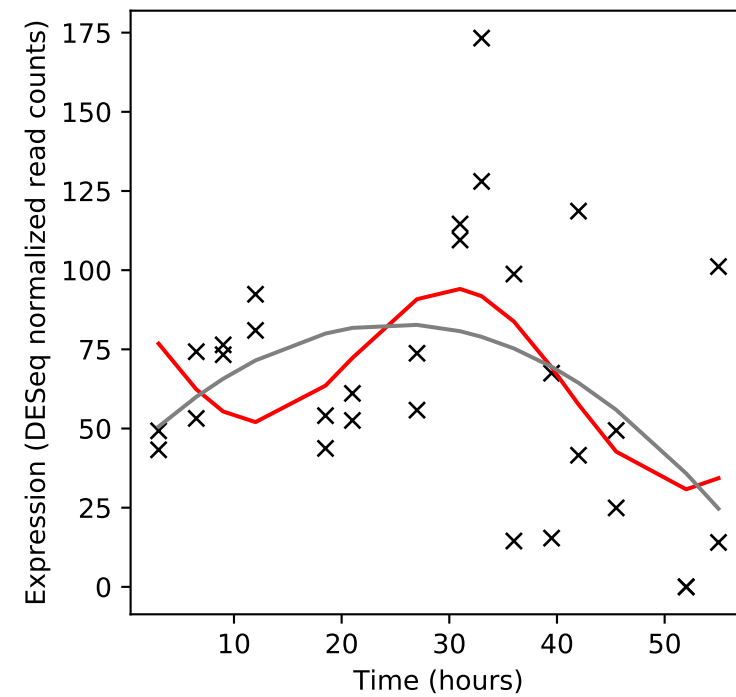
Rv3559c/-



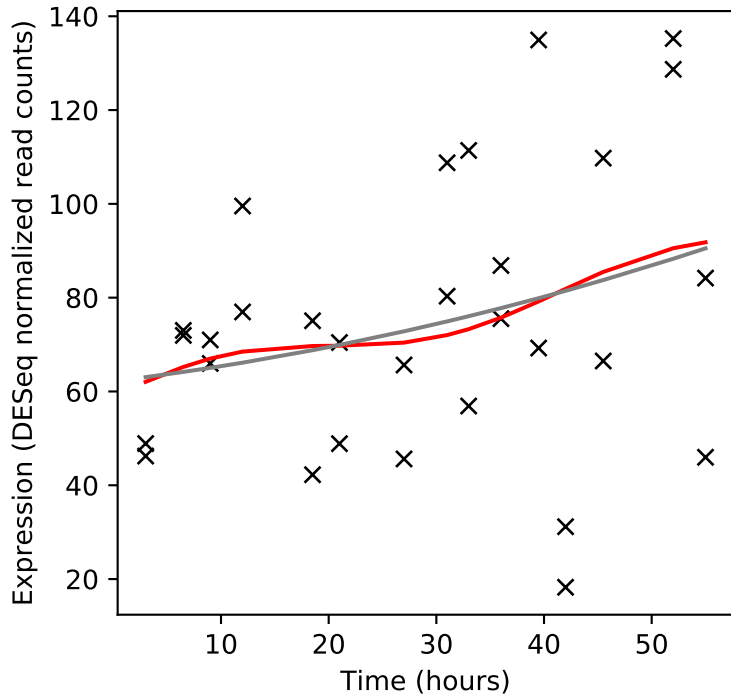
Rv3560c/fadE30



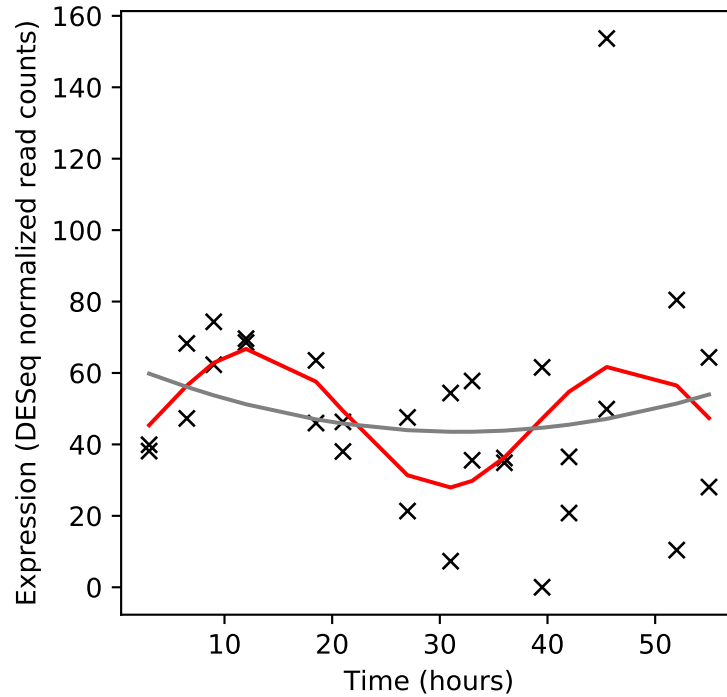
Rv3561/fadD3



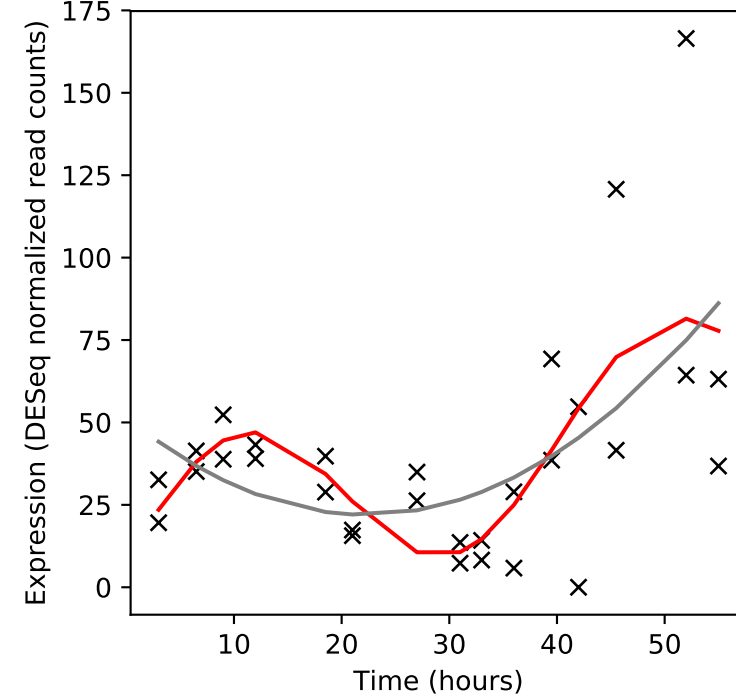
Rv3562/fadE31



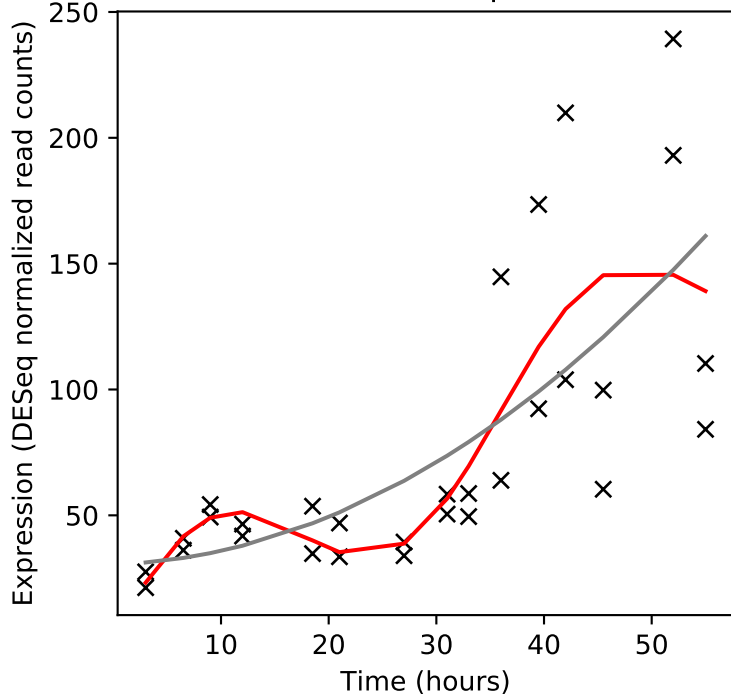
Rv3563/fadE32



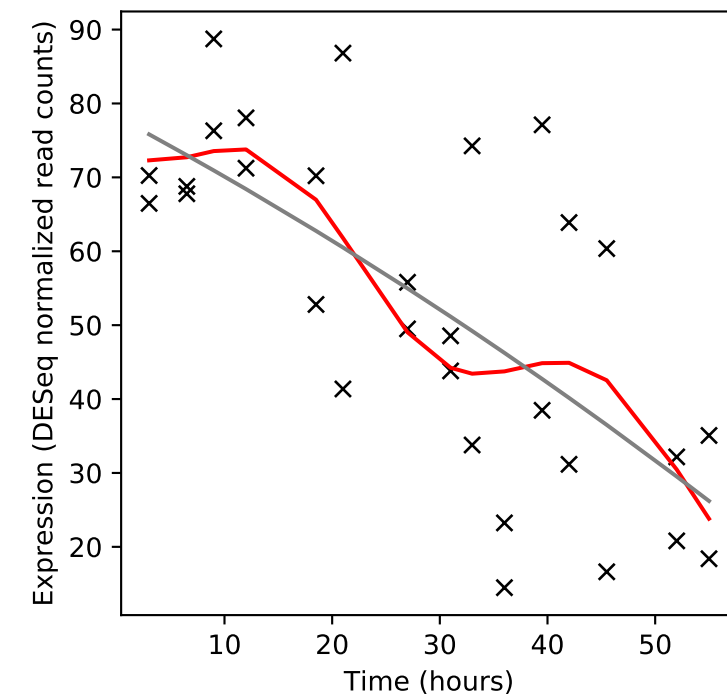
Rv3564/fadE33



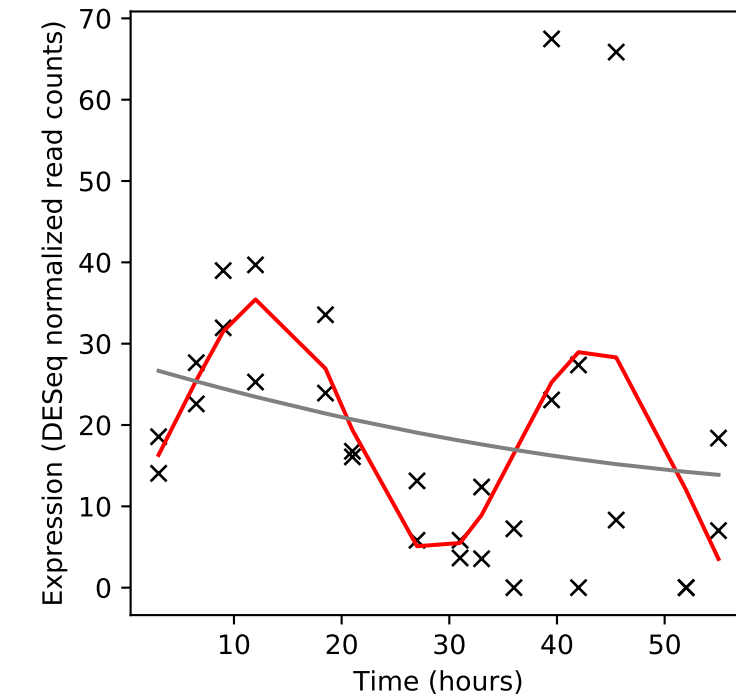
Rv3565/aspB



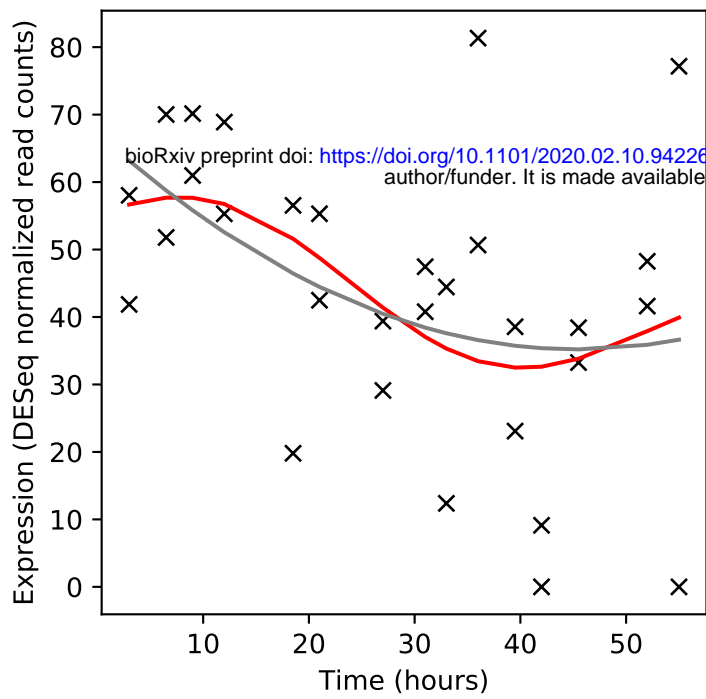
Rv3566c/nat



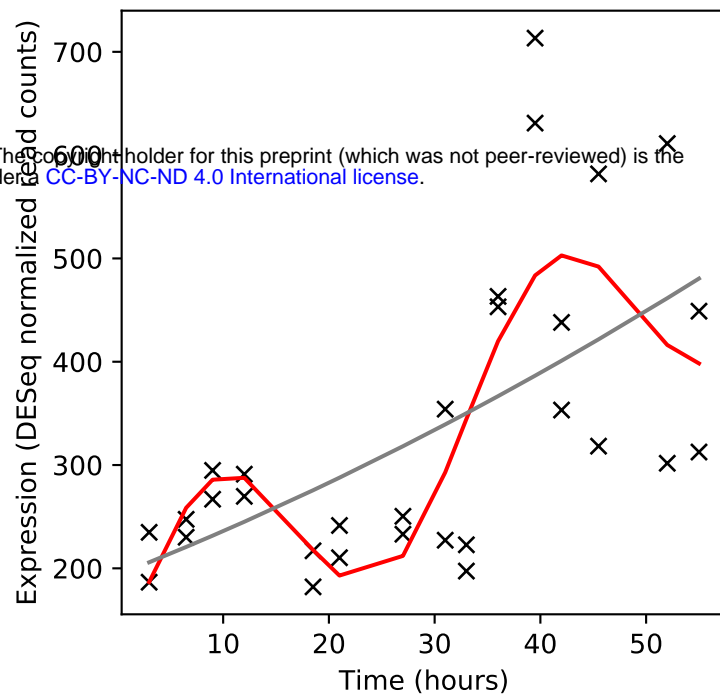
Rv3566A/-



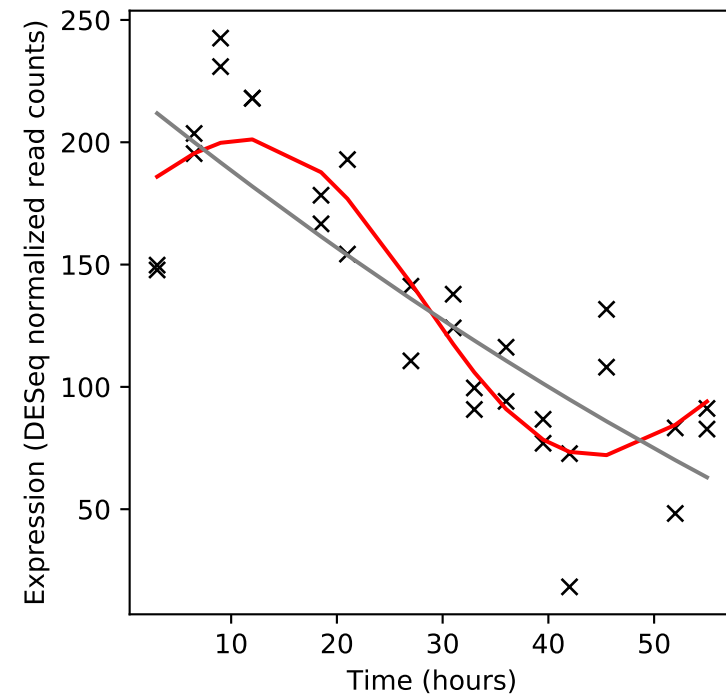
Rv3567c/hsaB



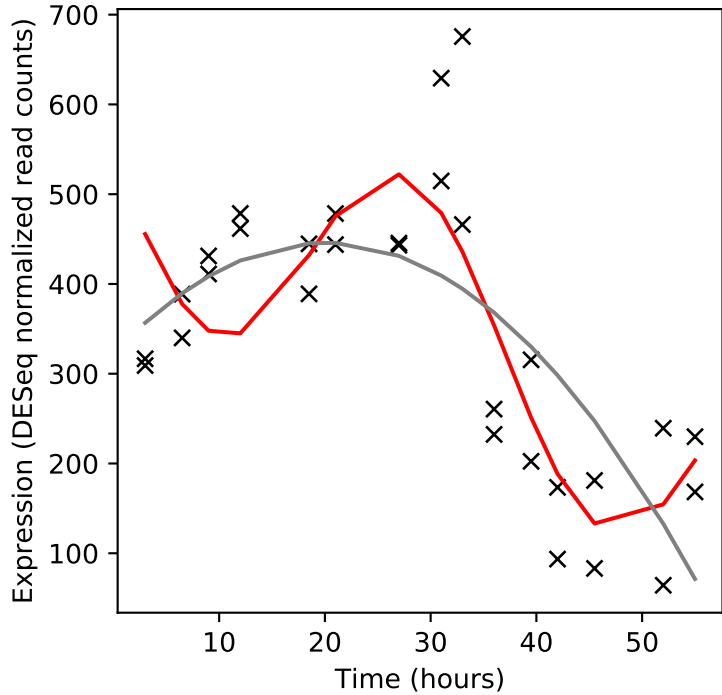
Rv3568c/hsaC



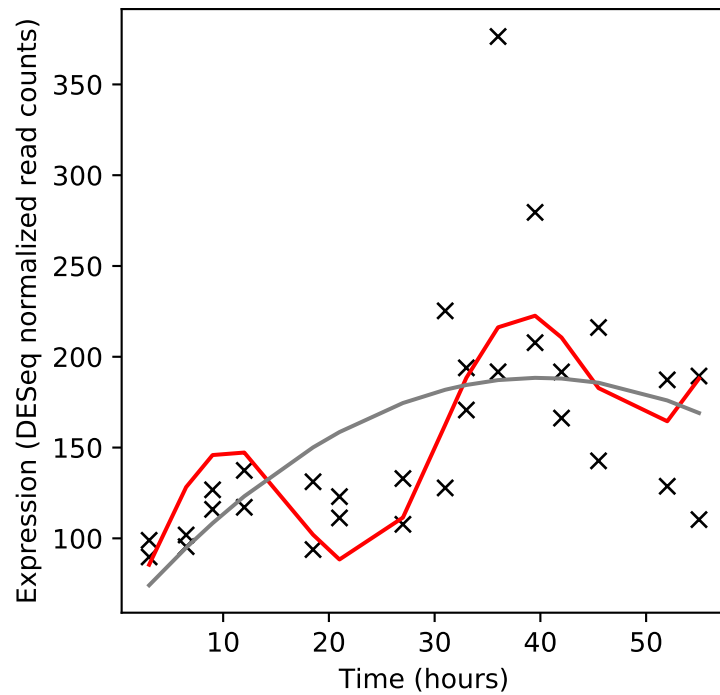
Rv3569c/hsaD



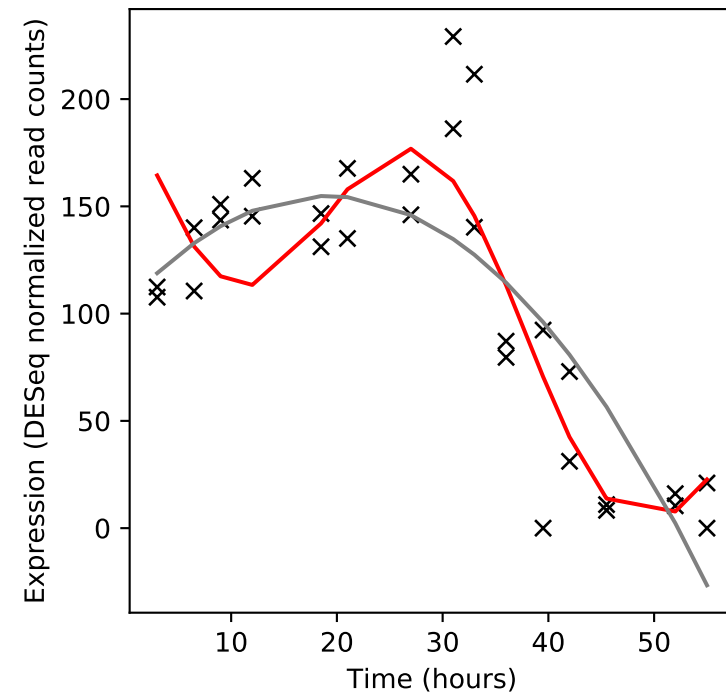
Rv3570c/hsaA



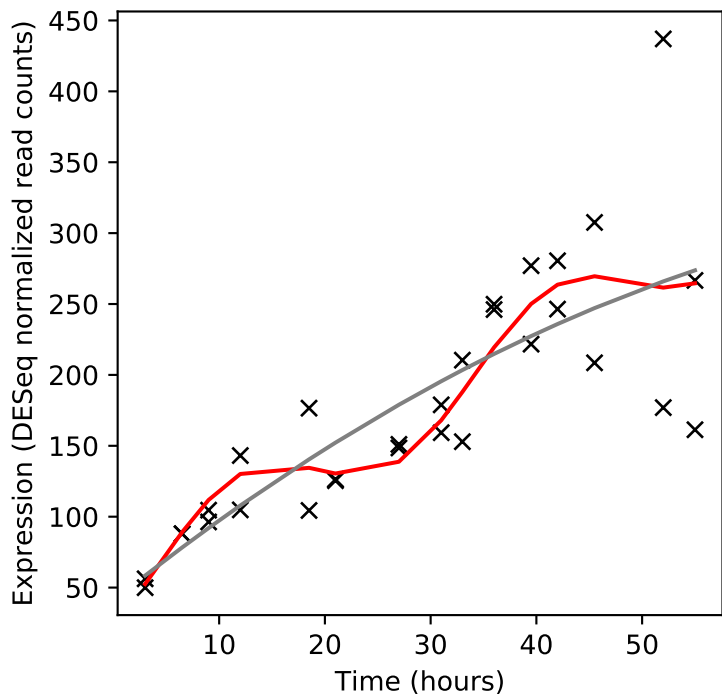
Rv3571/kshB



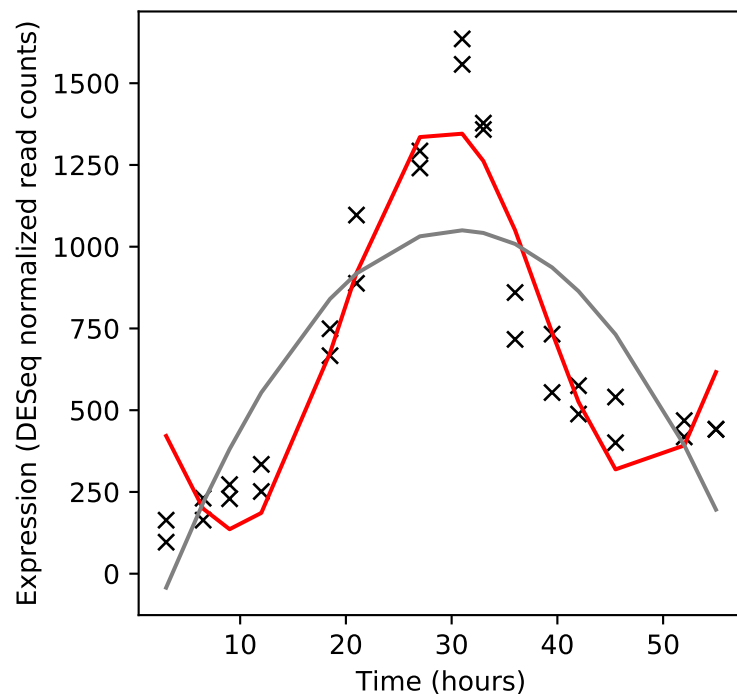
Rv3572/-



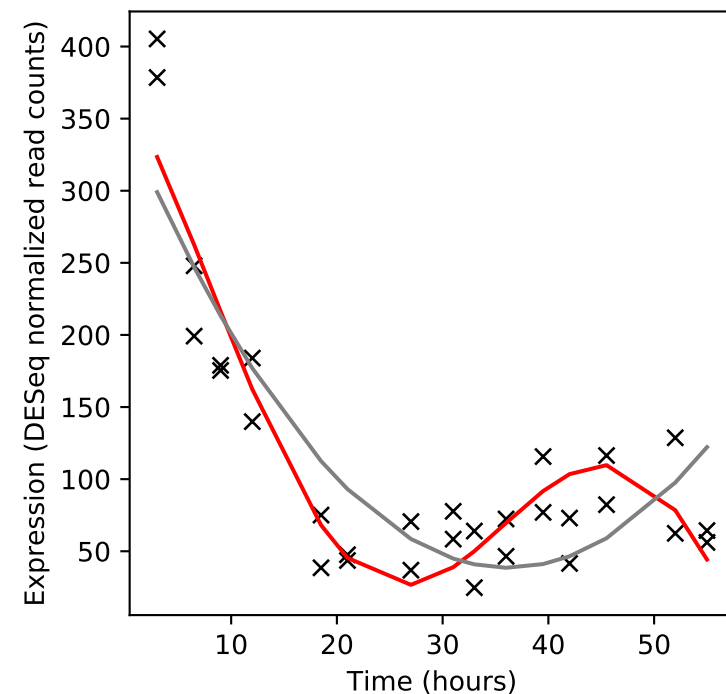
Rv3573c/fadE34



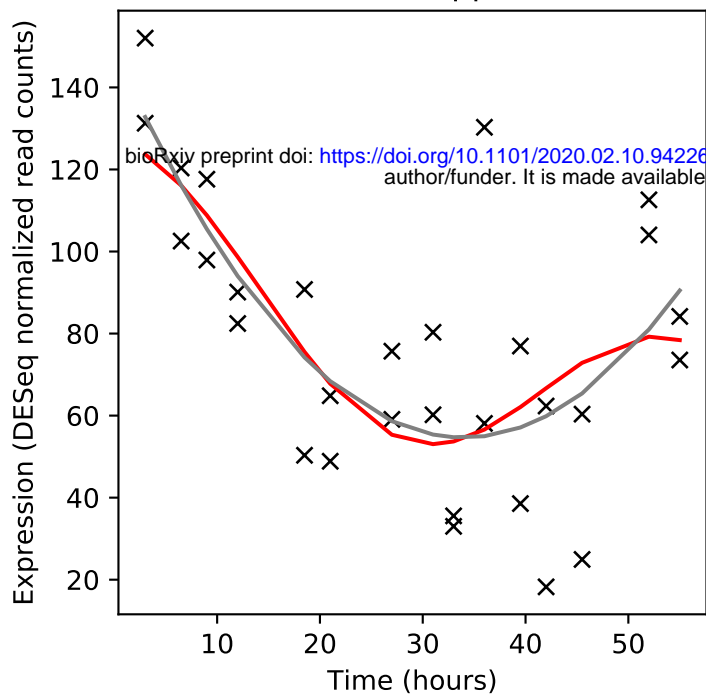
Rv3574/kstR



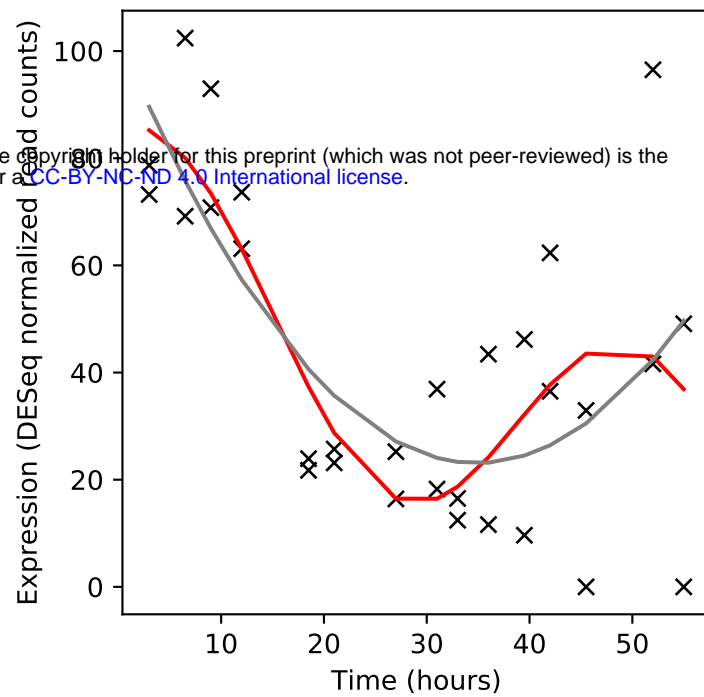
Rv3575c/-



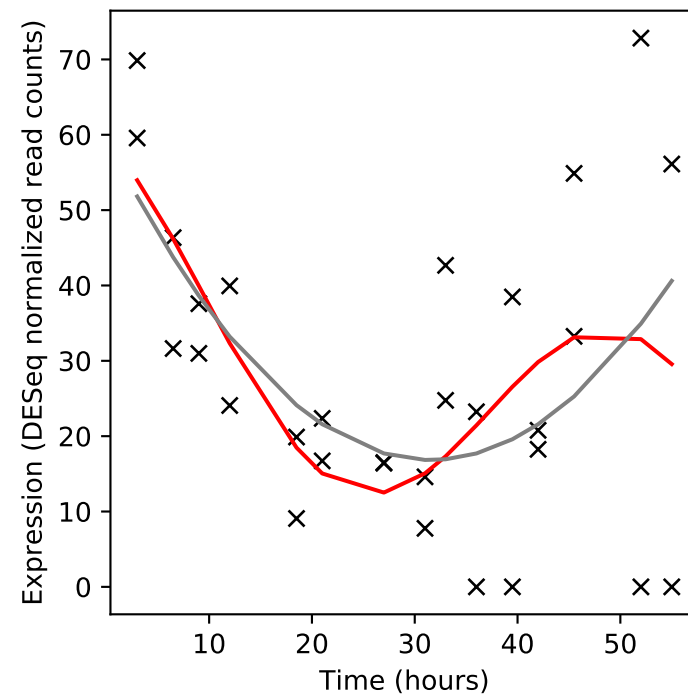
Rv3576/lppH



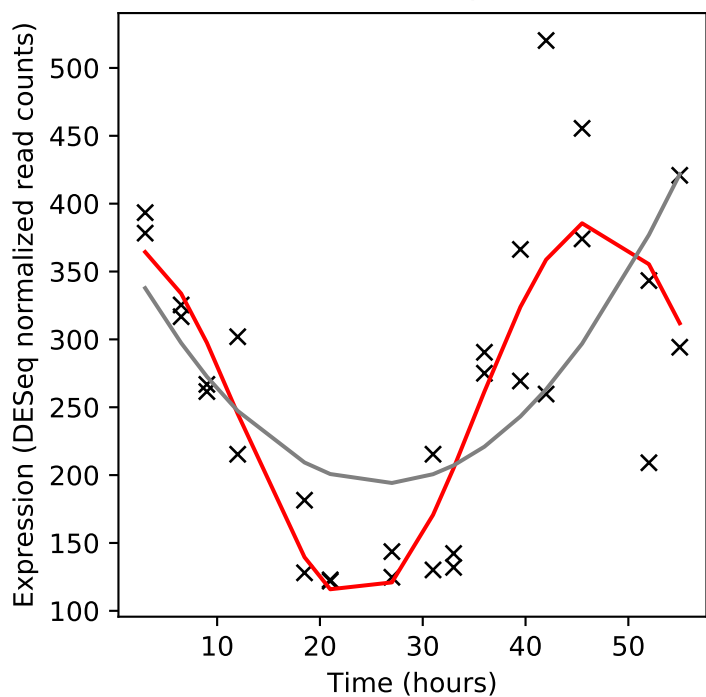
Rv3577/-



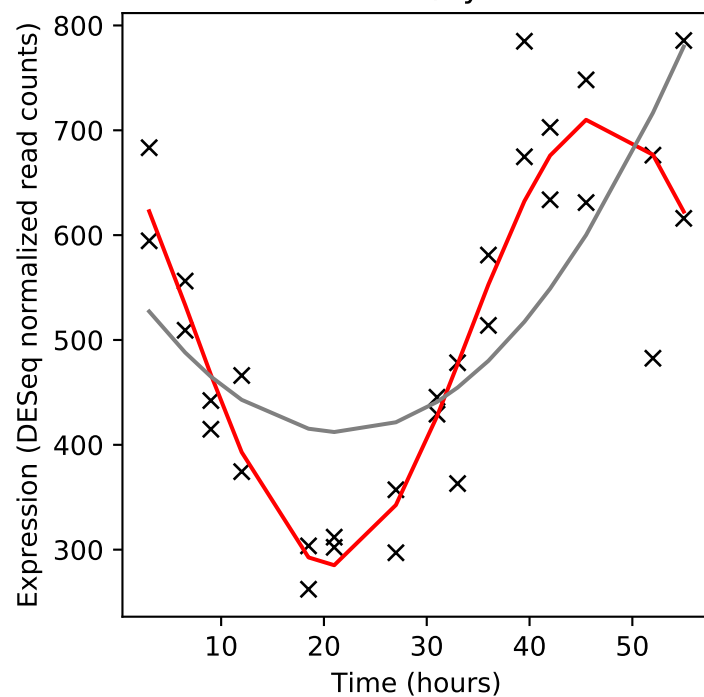
Rv3578/arsB2



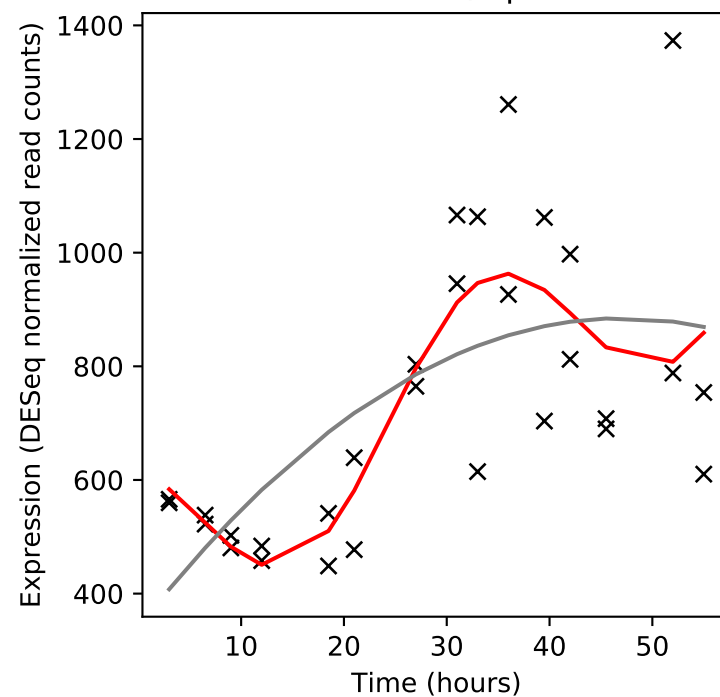
Rv3579c/-



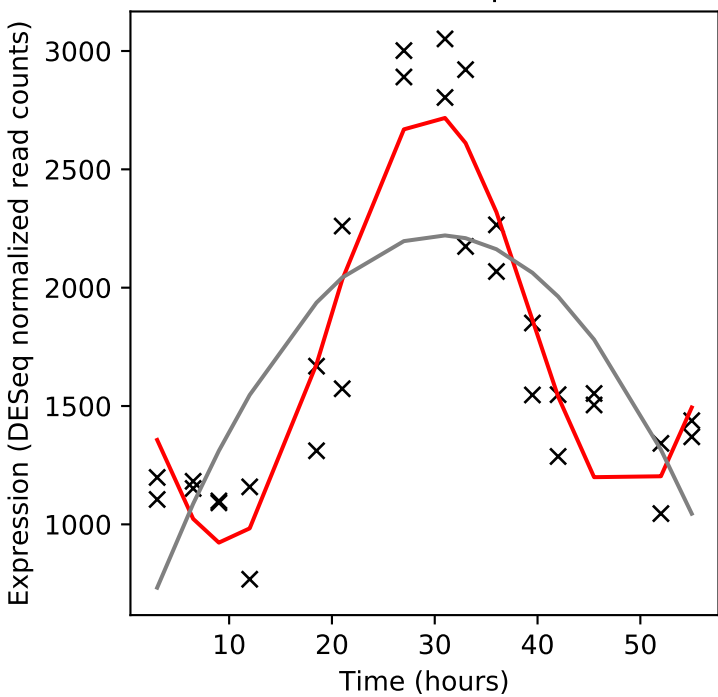
Rv3580c/cysS1



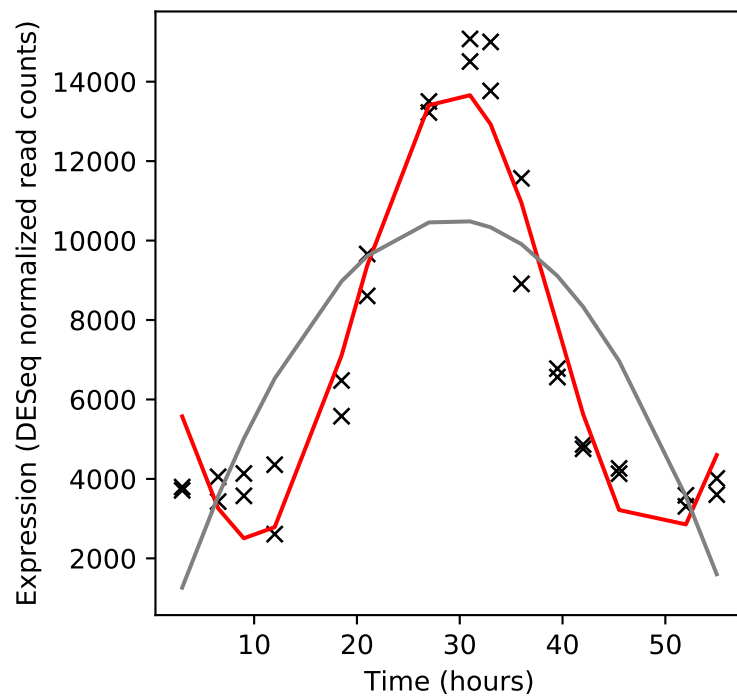
Rv3581c/ispF



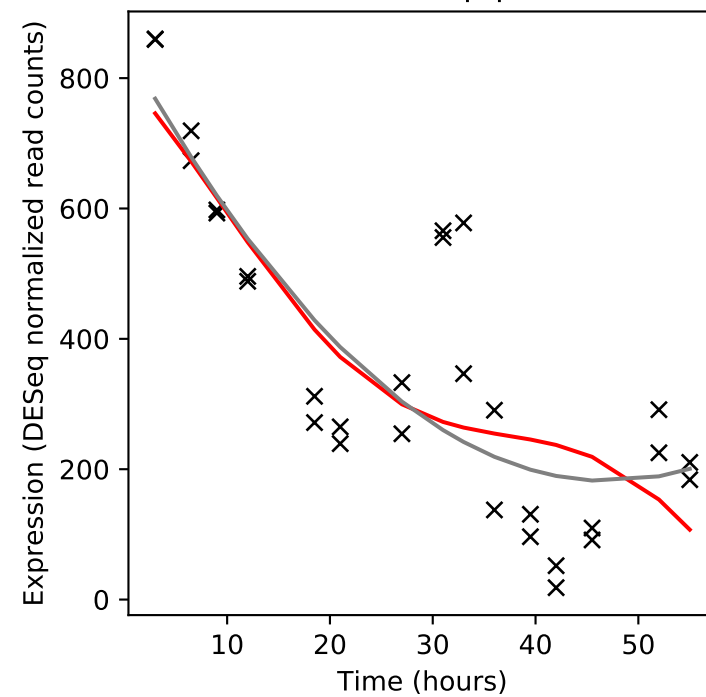
Rv3582c/ispD



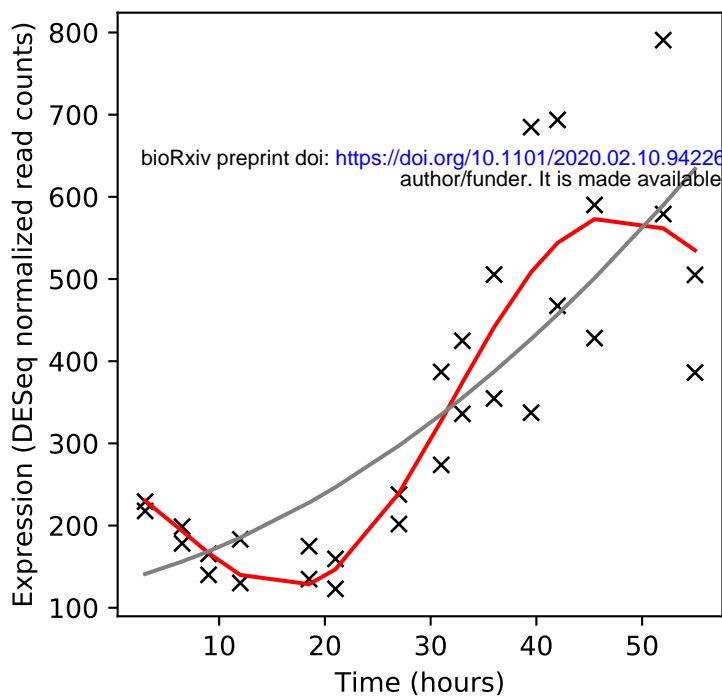
Rv3583c/-



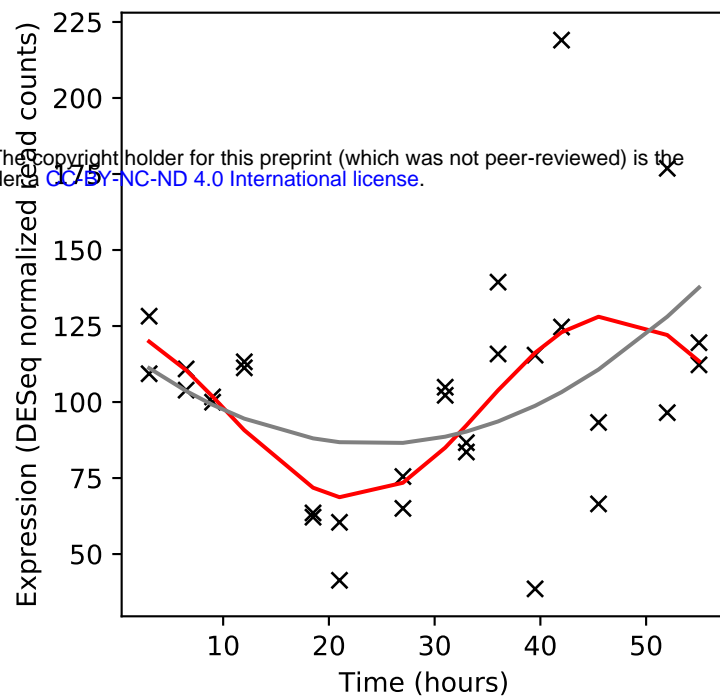
Rv3584/lpqE



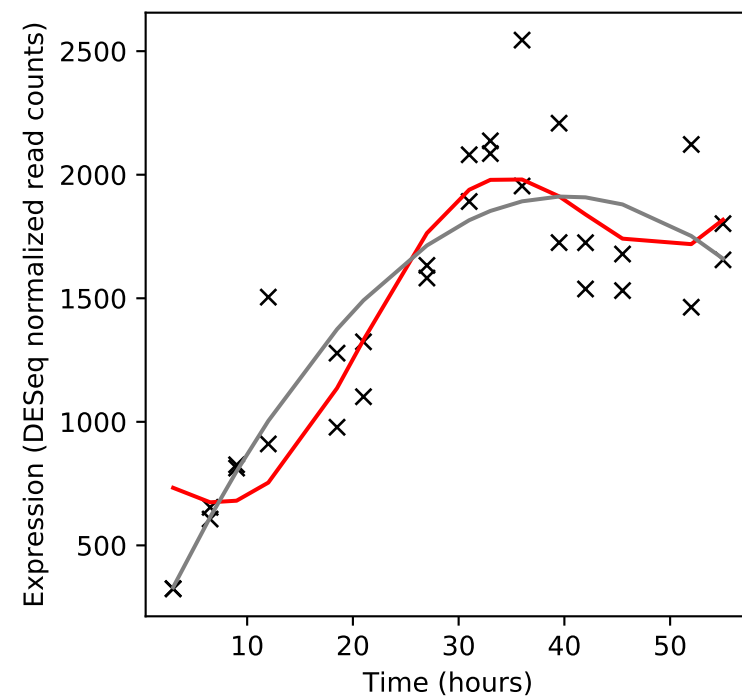
Rv3585/radA



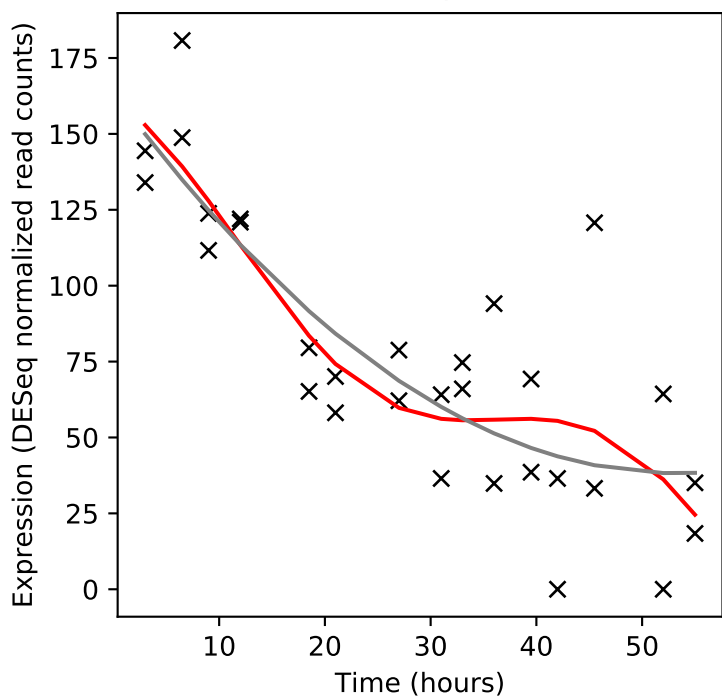
Rv3586/-



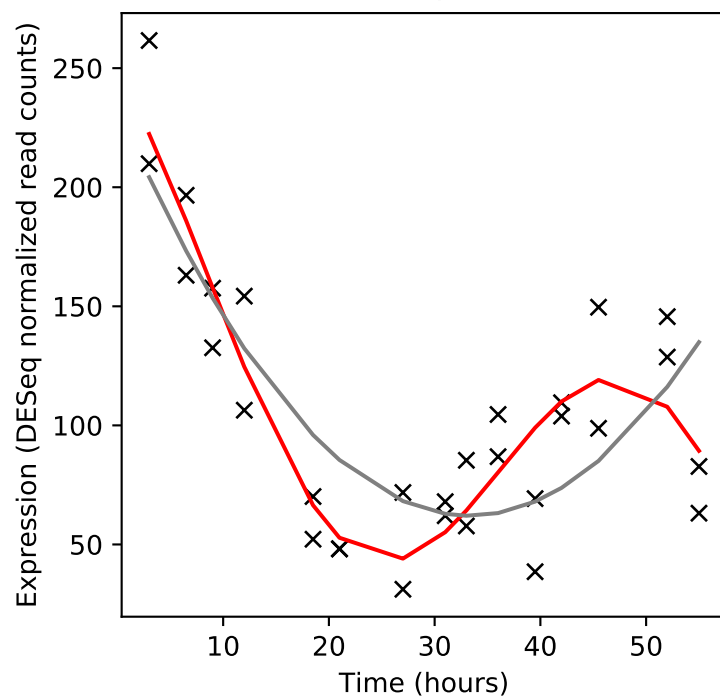
Rv3587c/-



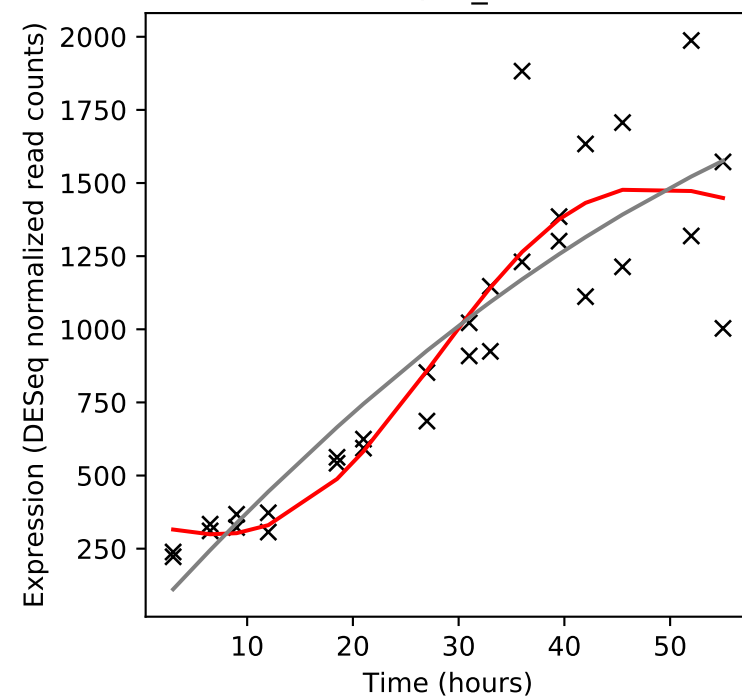
Rv3588c/canB



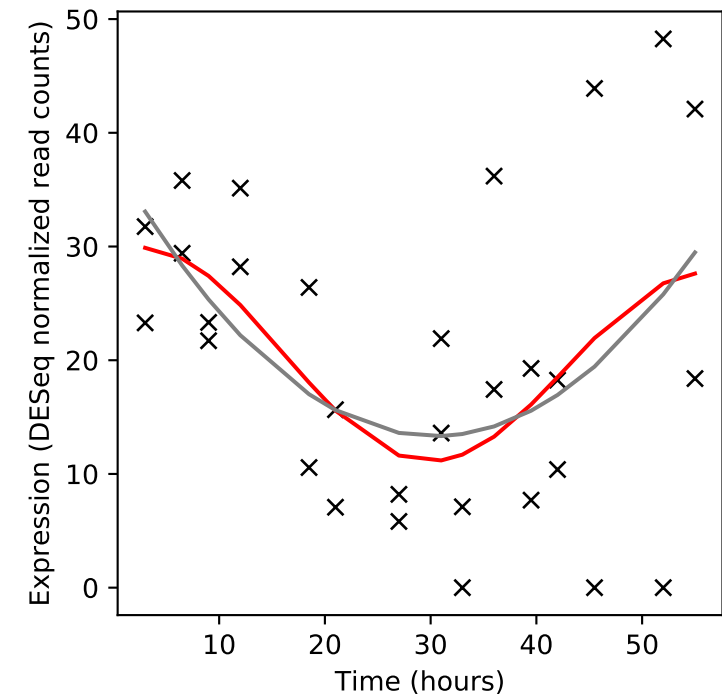
Rv3589/mutY



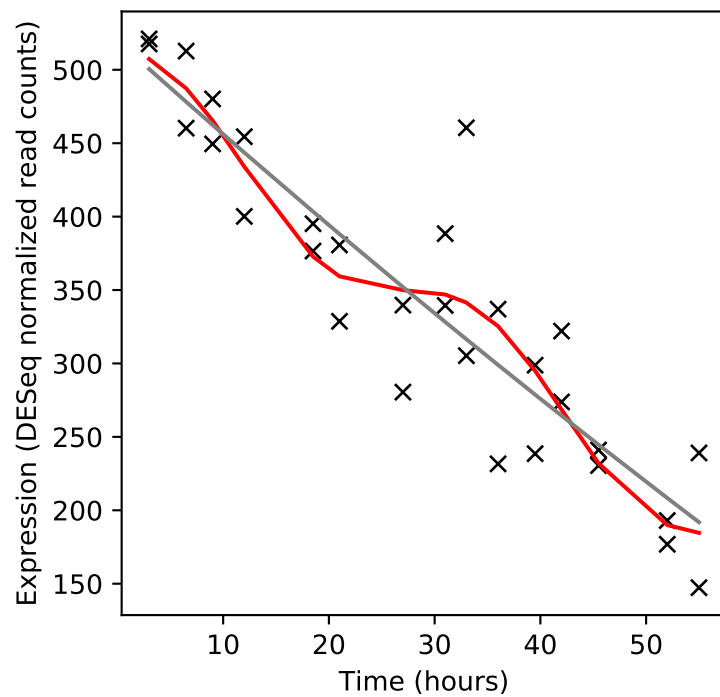
Rv3590c/PE_PGRS58



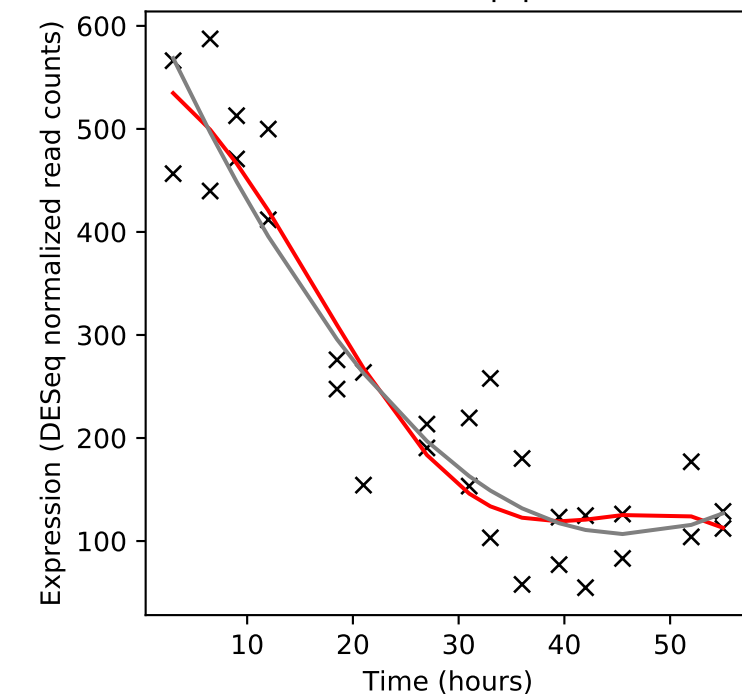
Rv3591c/-



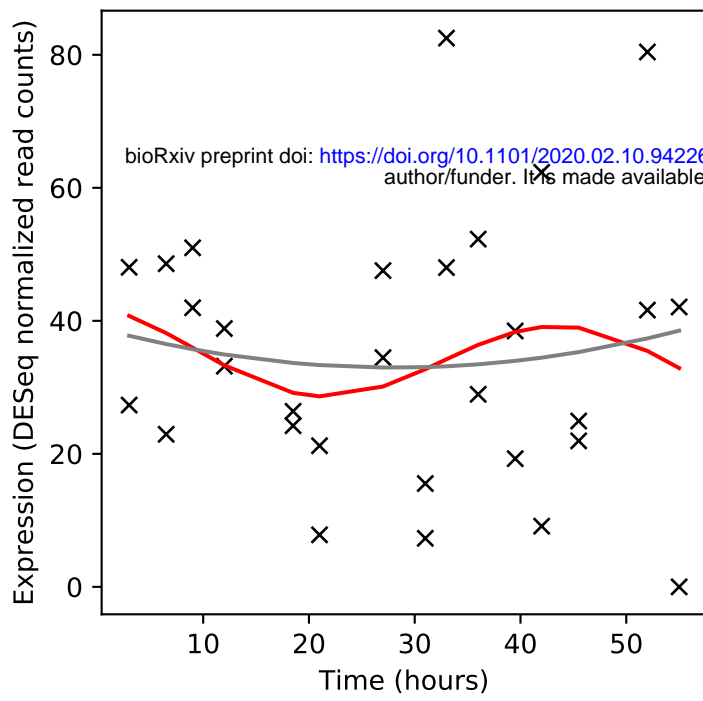
Rv3592/mhuD



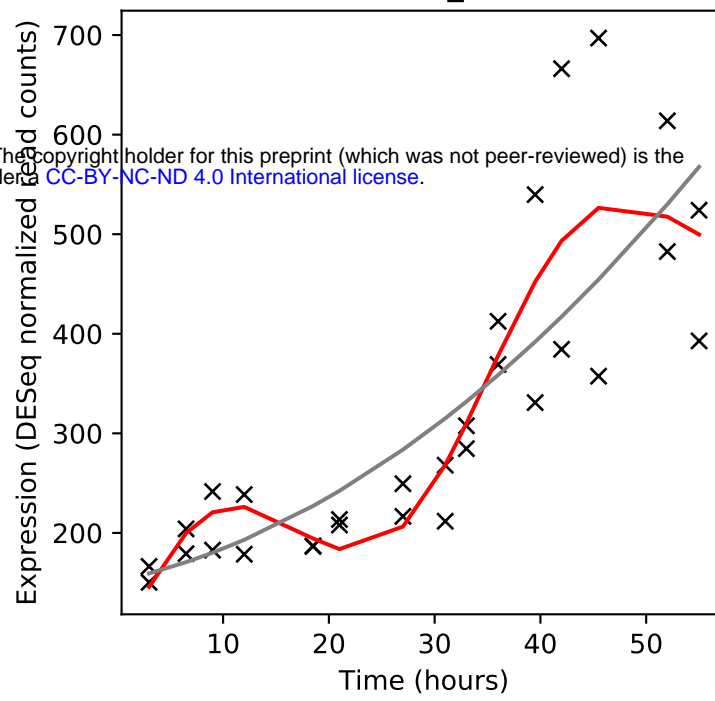
Rv3593/lpqF



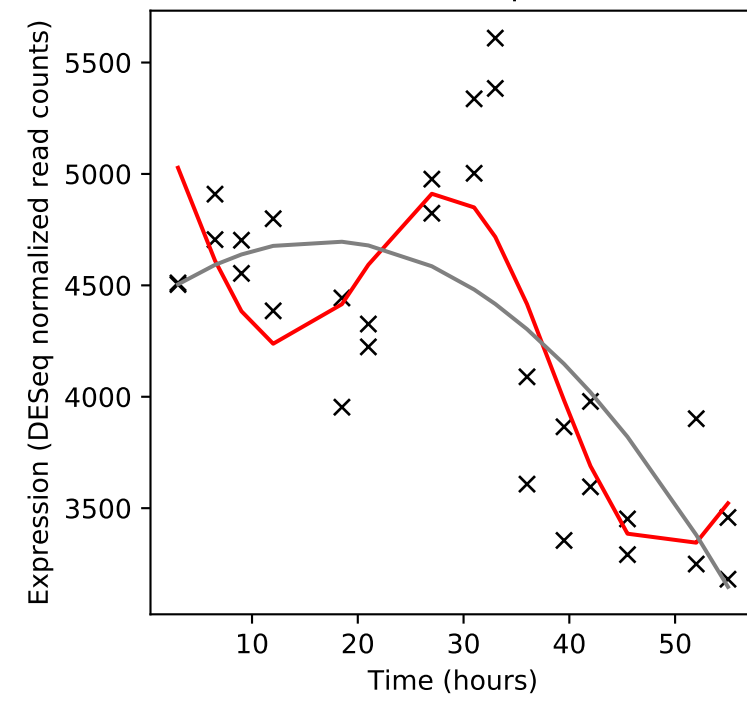
Rv3594/-



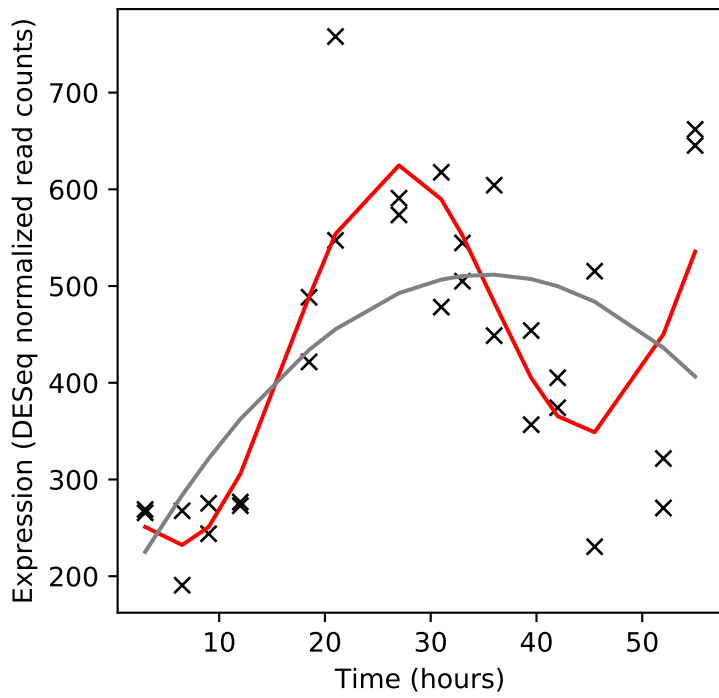
Rv3595c/PE_PGRS59



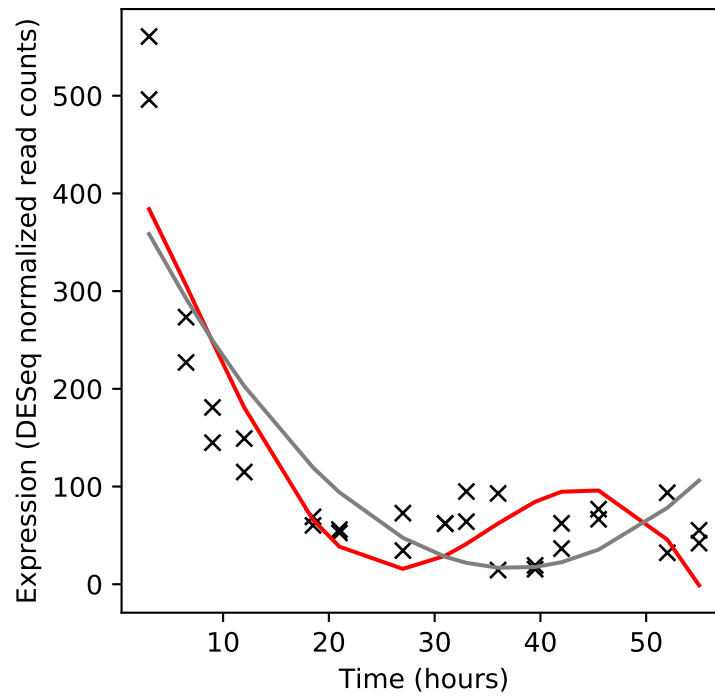
Rv3596c/clpC1



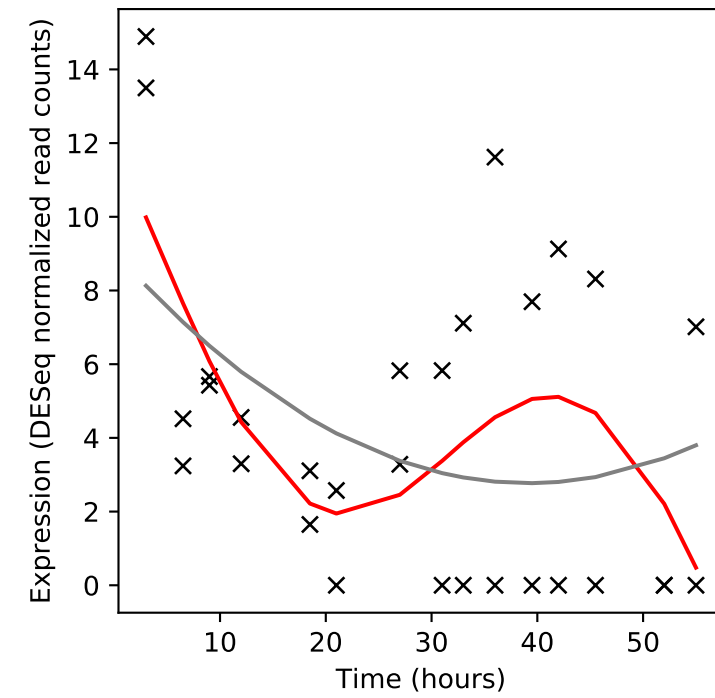
Rv3597c/lsr2



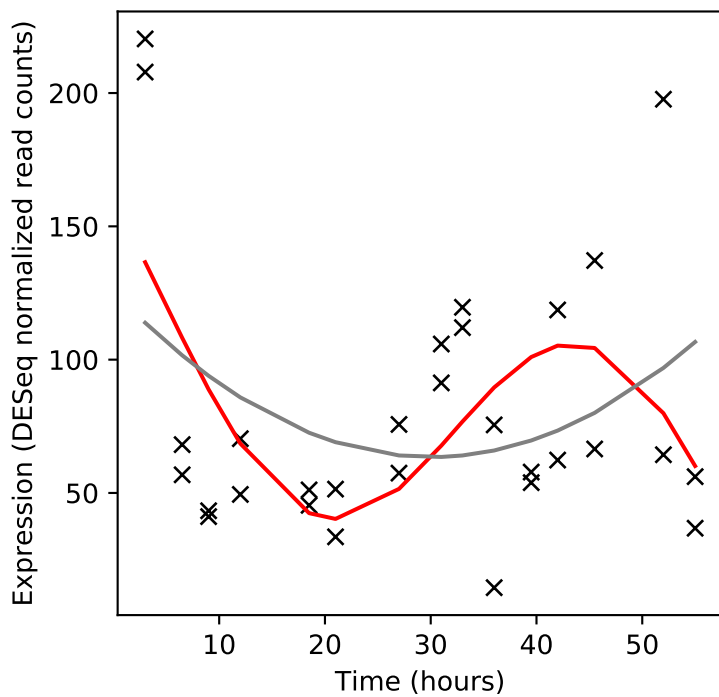
Rv3598c/lysS



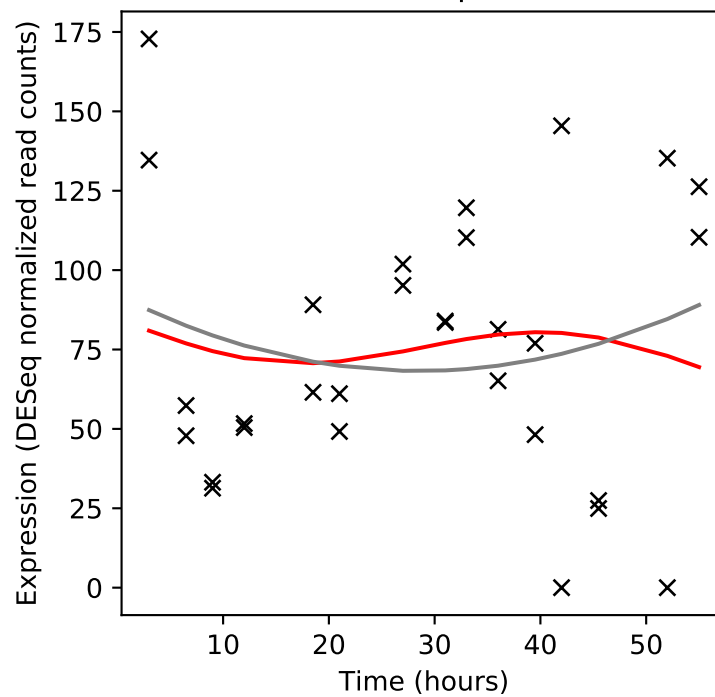
Rv3599c/-



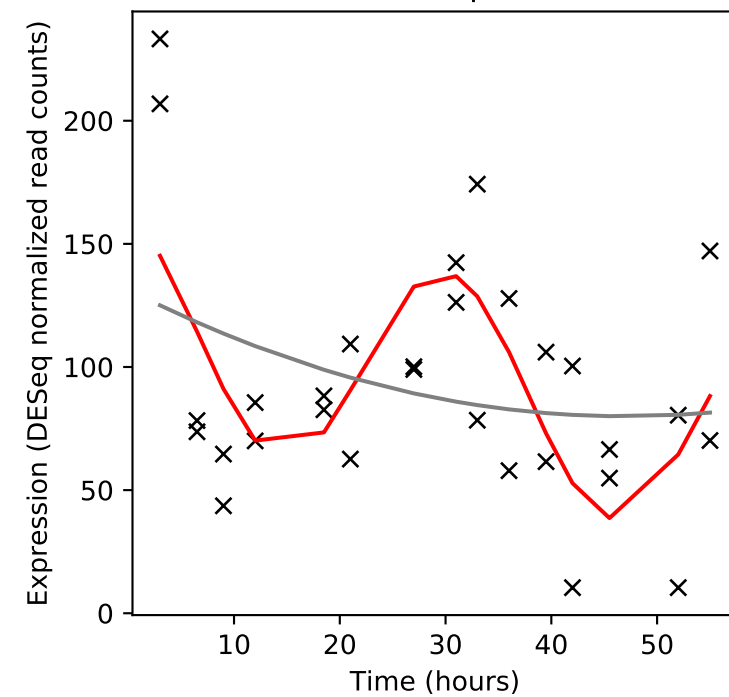
Rv3600c/-



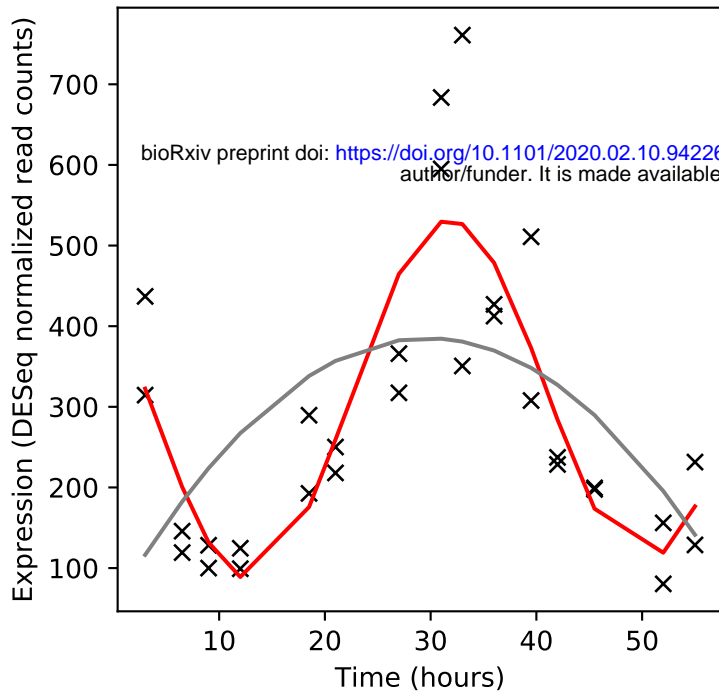
Rv3601c/panD



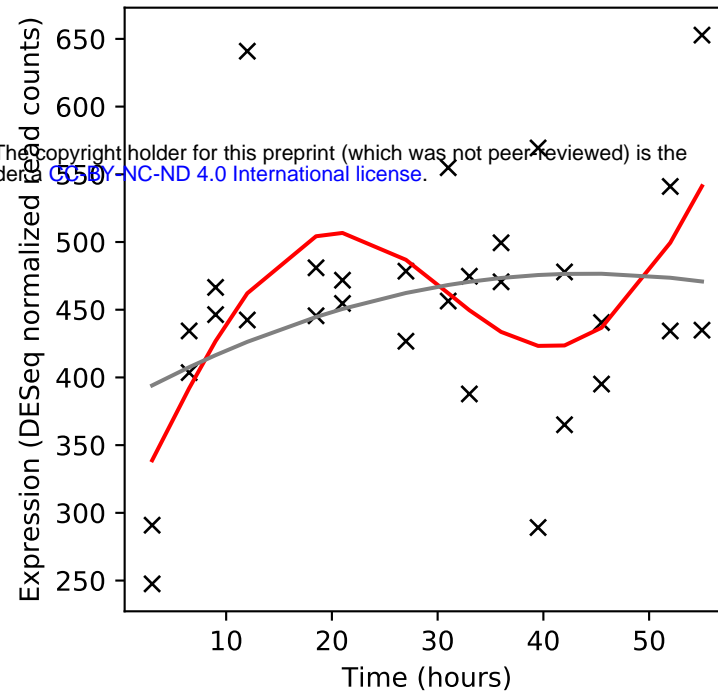
Rv3602c/panC



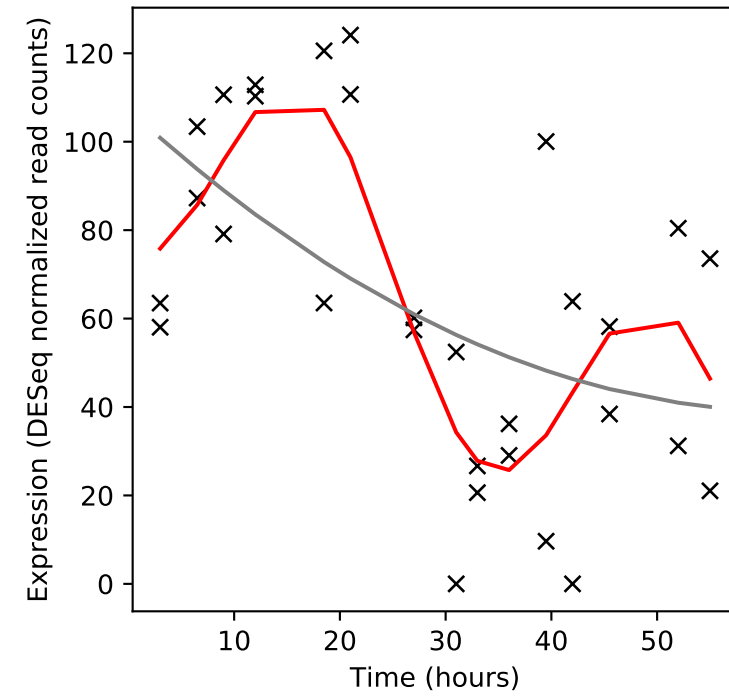
Rv3603c/-



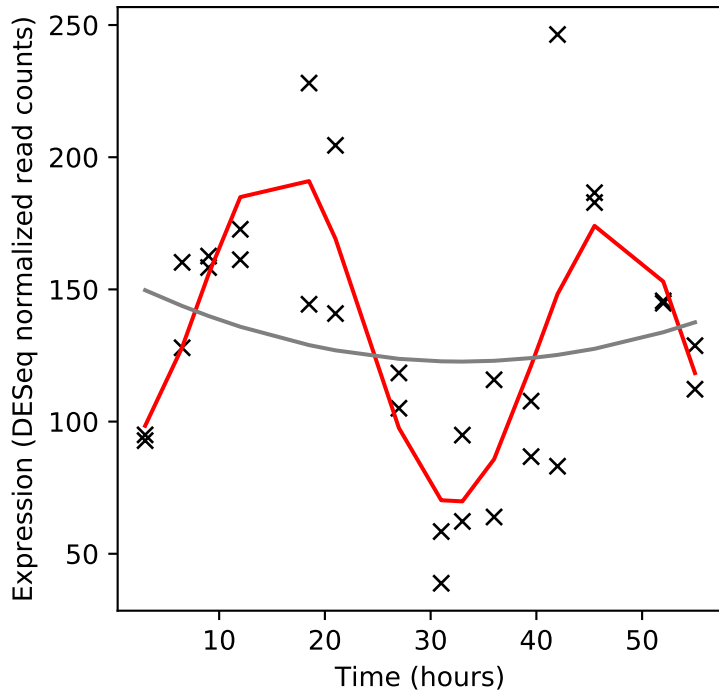
Rv3604c/-



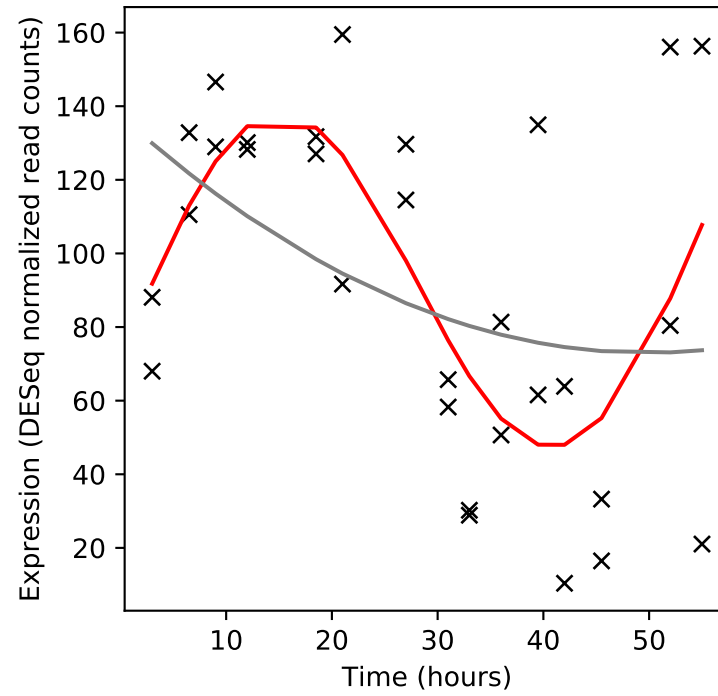
Rv3605c/-



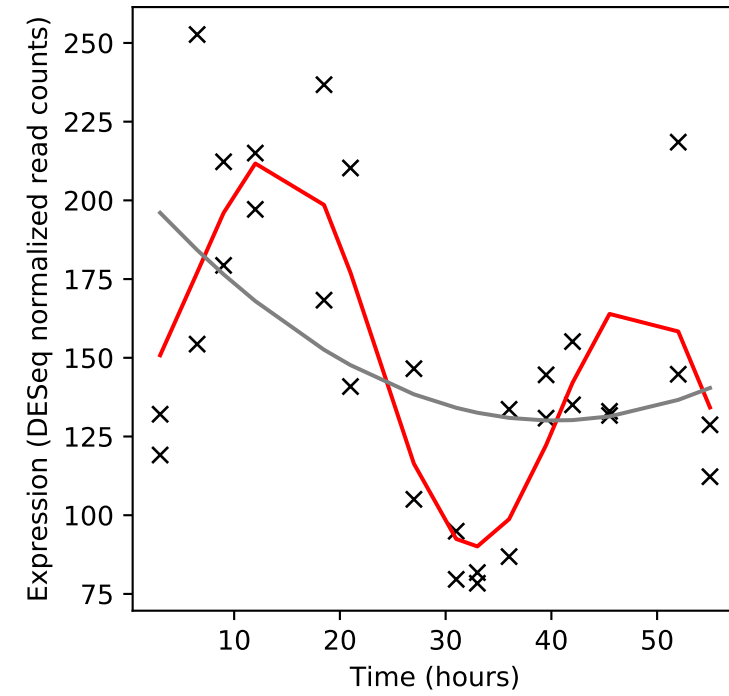
Rv3606c/foIK



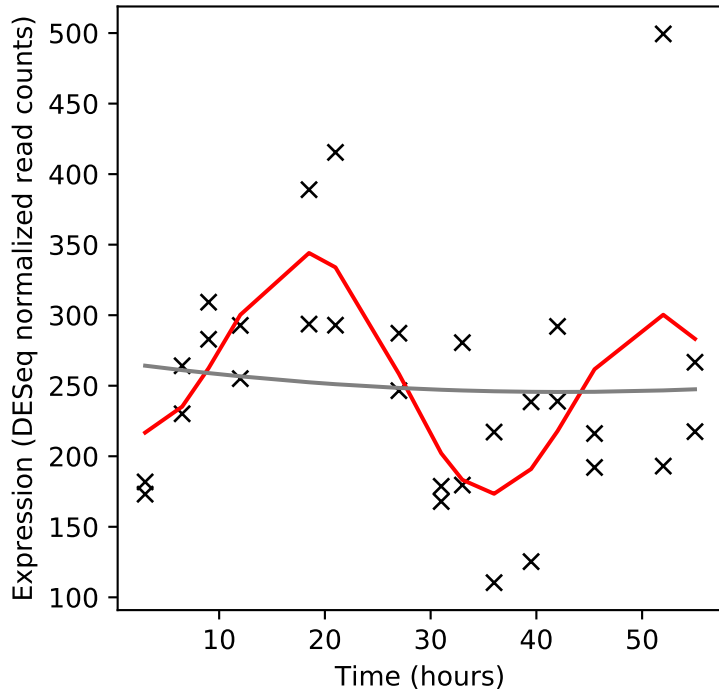
Rv3607c/foIB



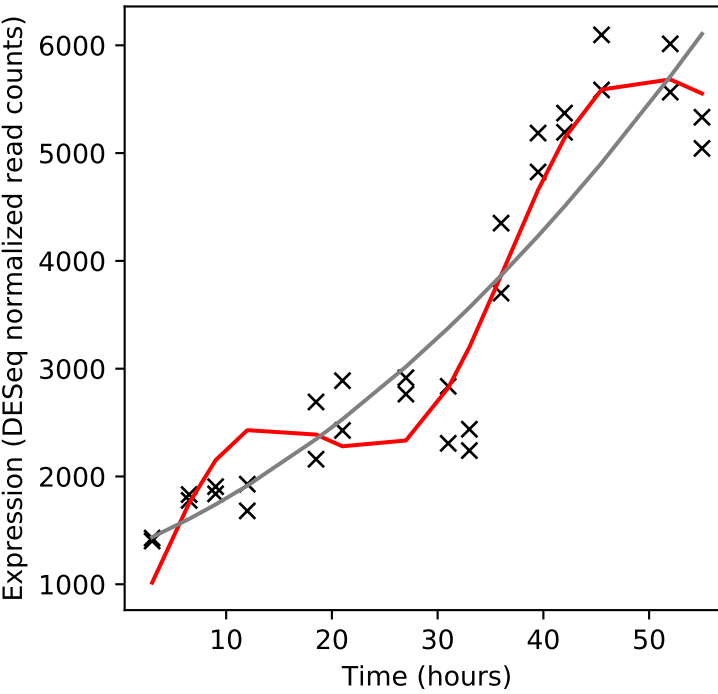
Rv3608c/foIP1



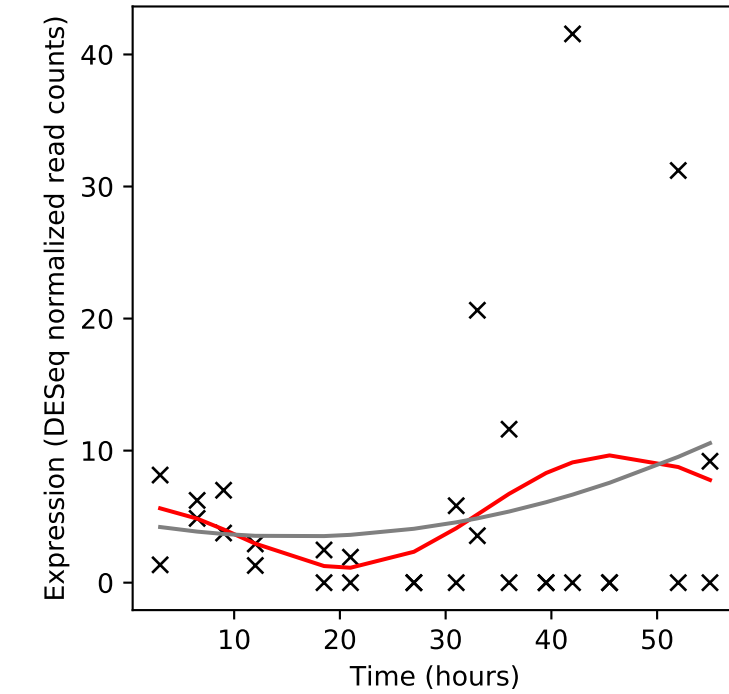
Rv3609c/foIE



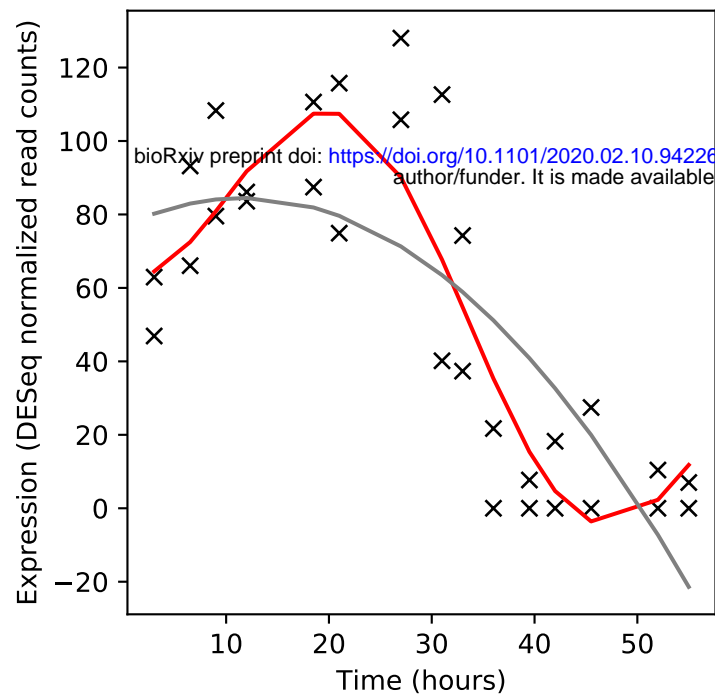
Rv3610c/ftsH



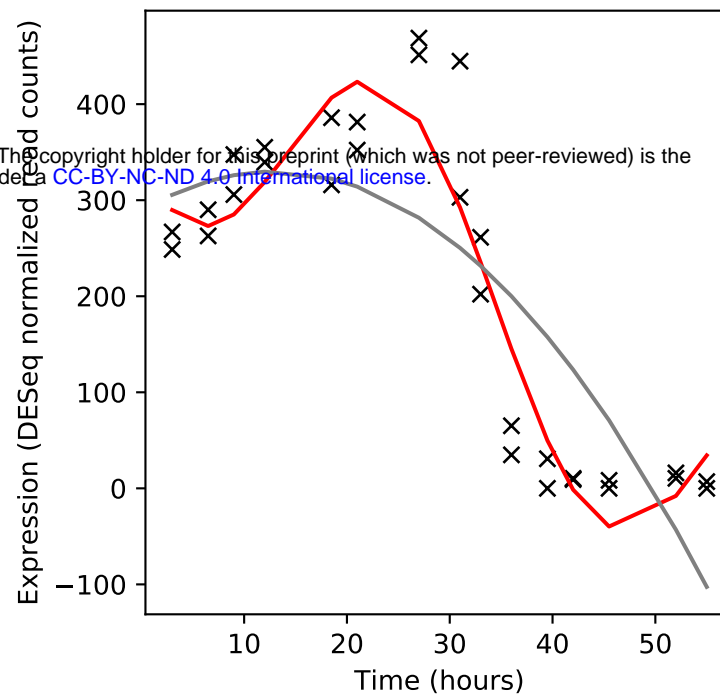
Rv3611/-



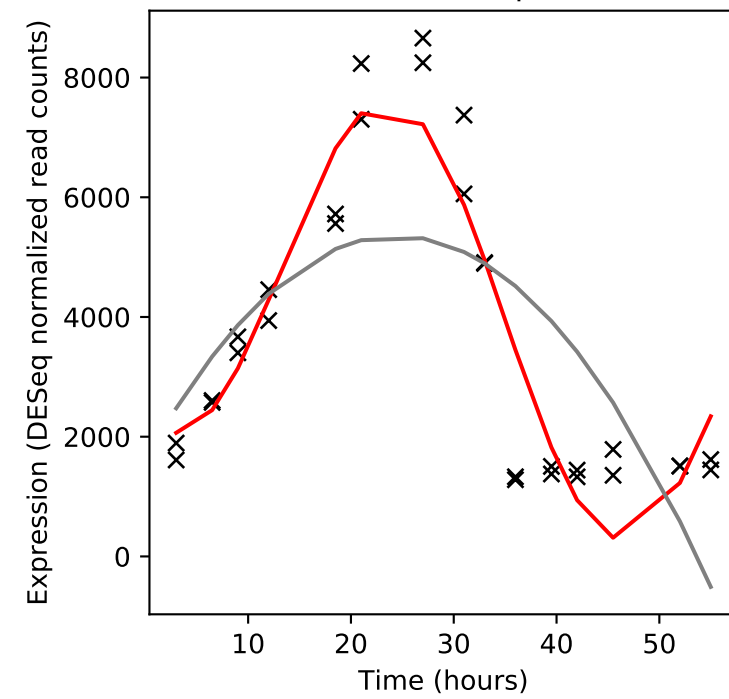
Rv3612c/-



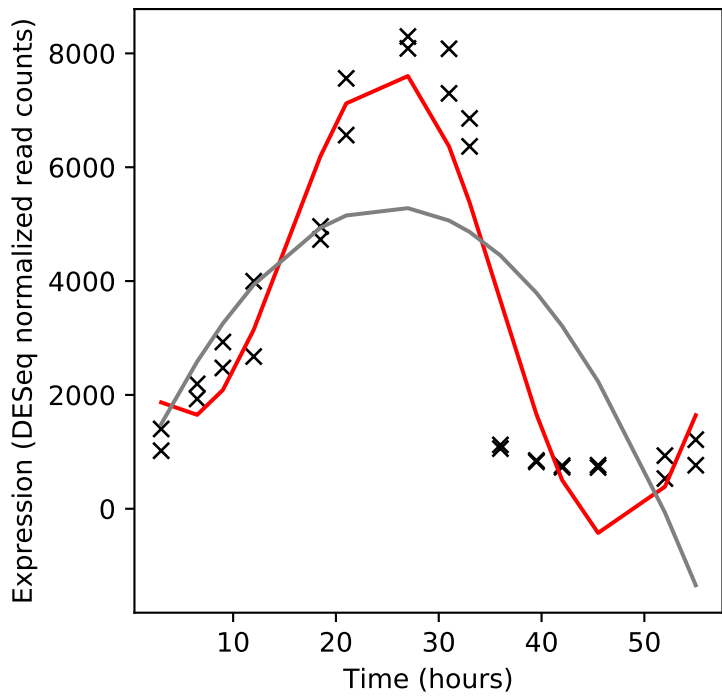
Rv3613c/-



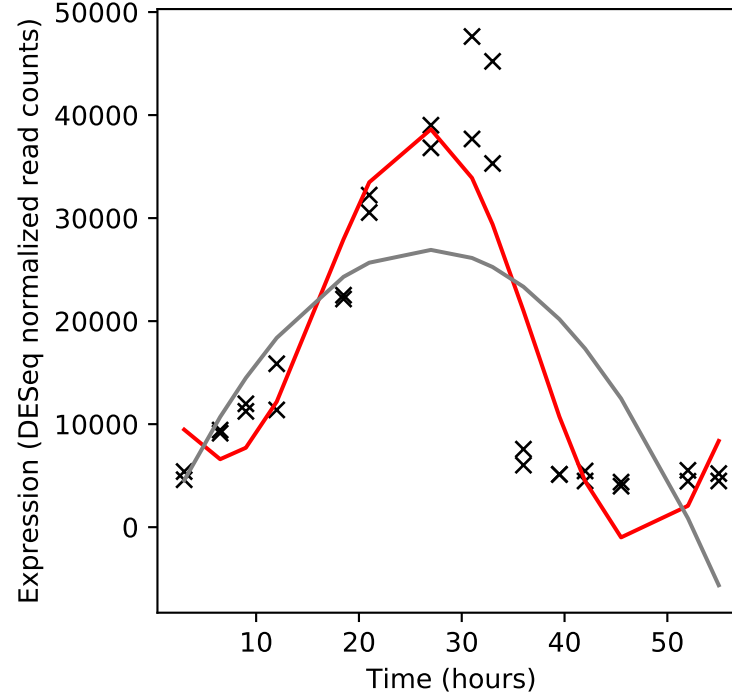
Rv3614c/espD



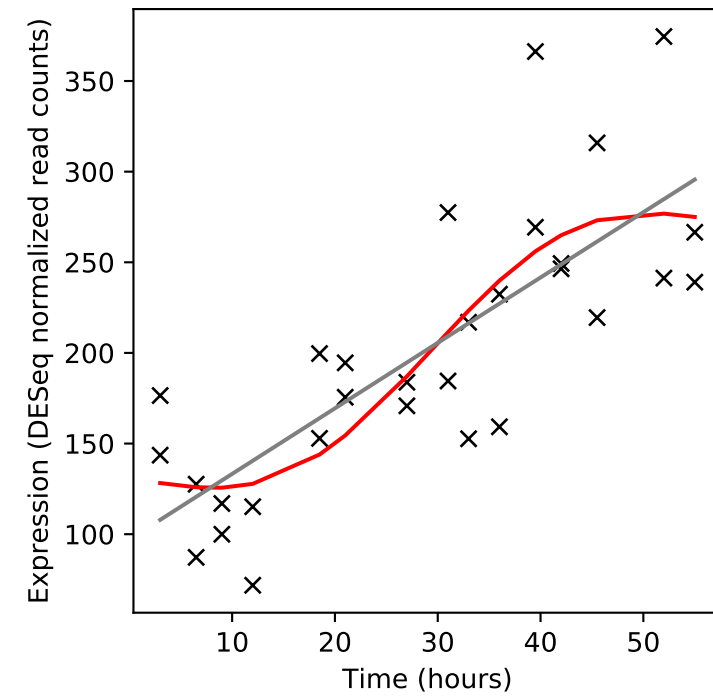
Rv3615c/espC



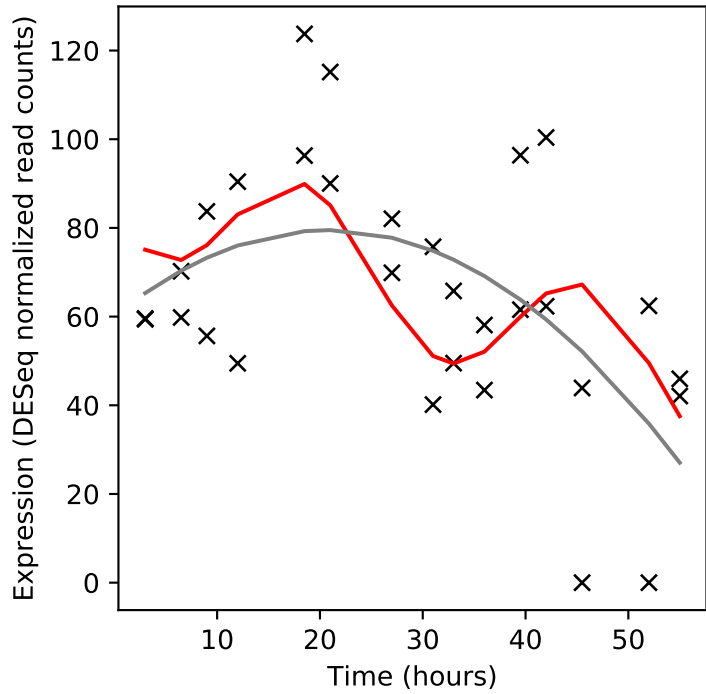
Rv3616c/espA



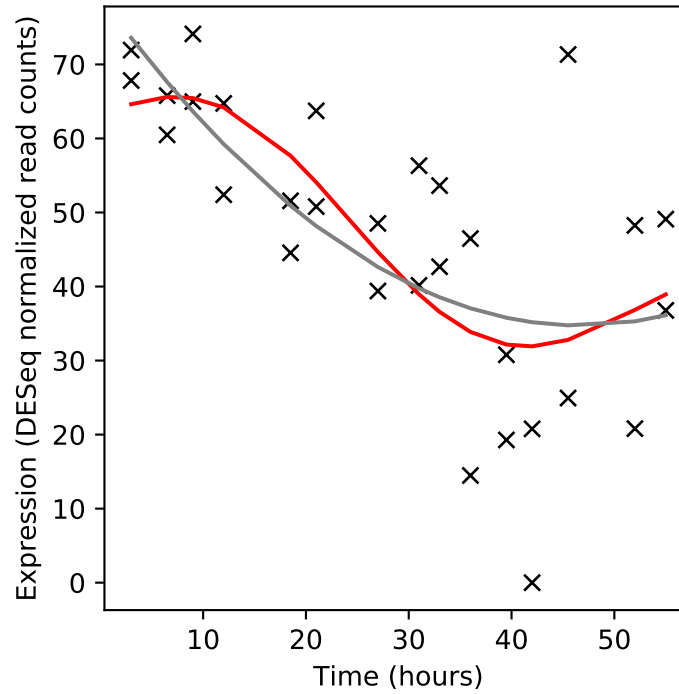
Rv3617/ephA



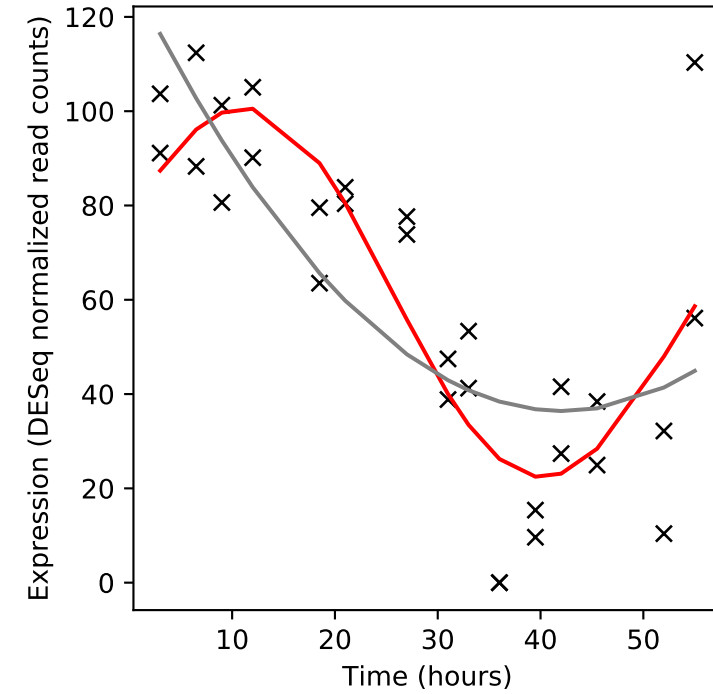
Rv3618/-



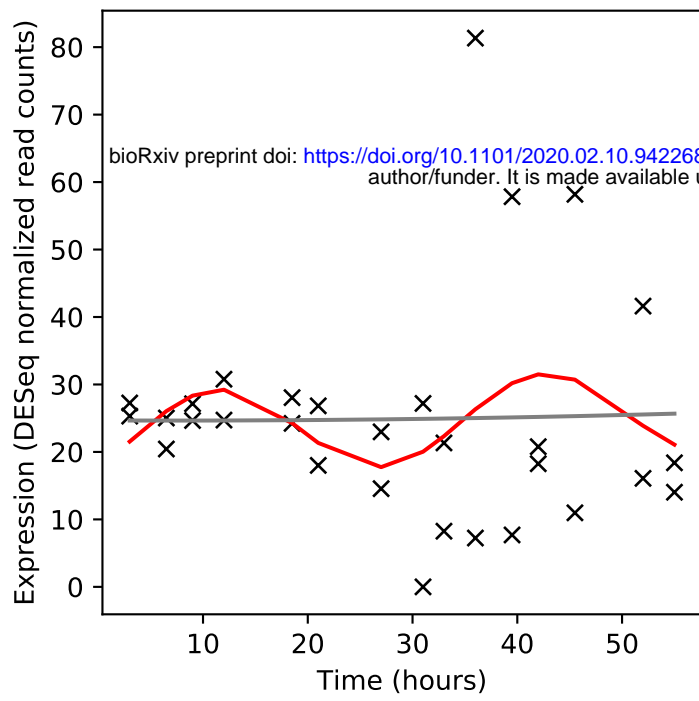
Rv3619c/esxV



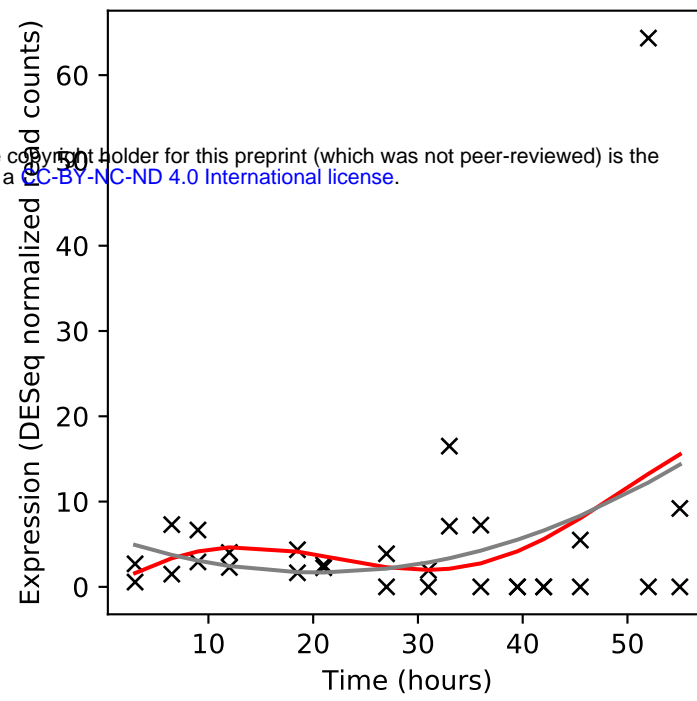
Rv3620c/esxW



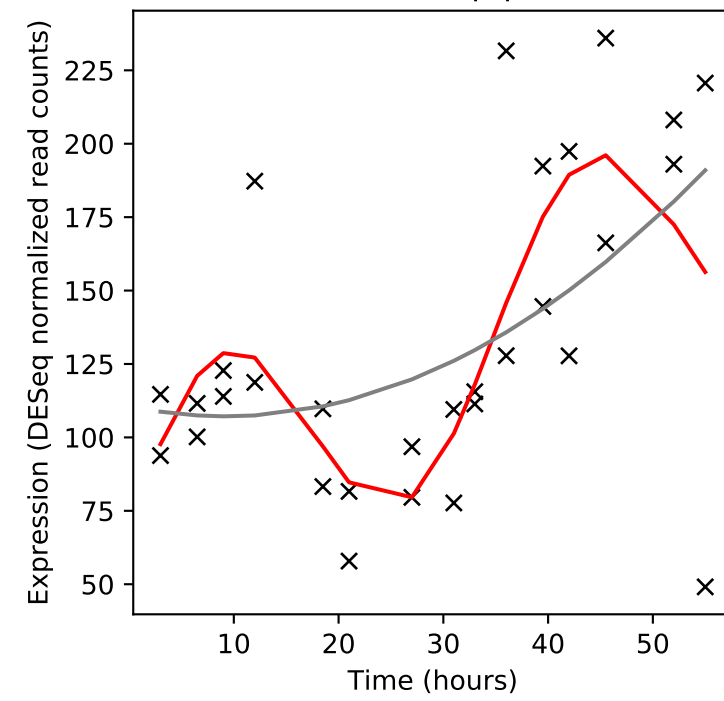
Rv3621c/PPE65



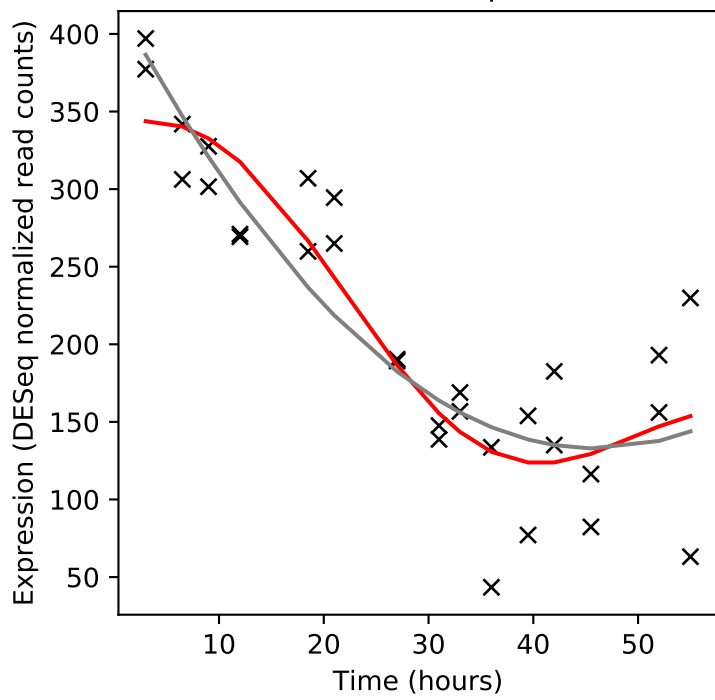
Rv3622c/PE32



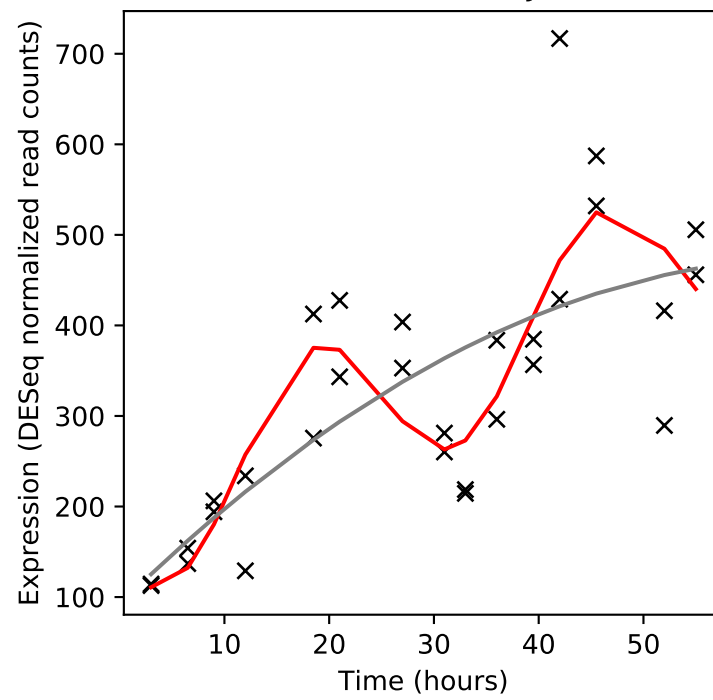
Rv3623/lpqG



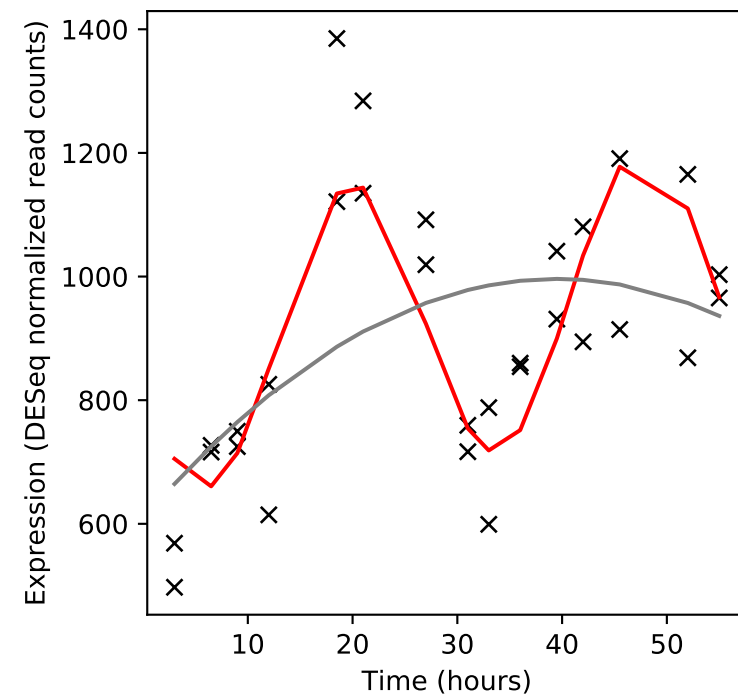
Rv3624c/hpt



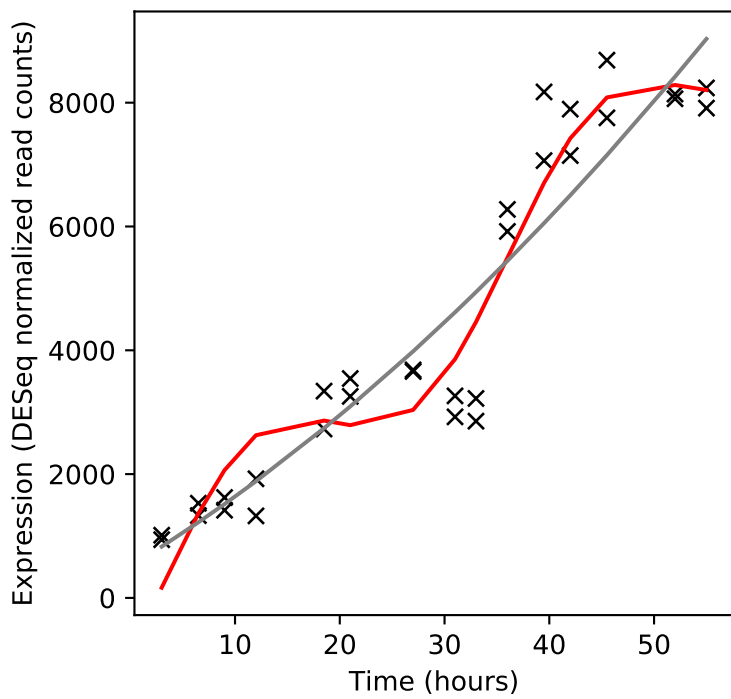
Rv3625c/mesJ



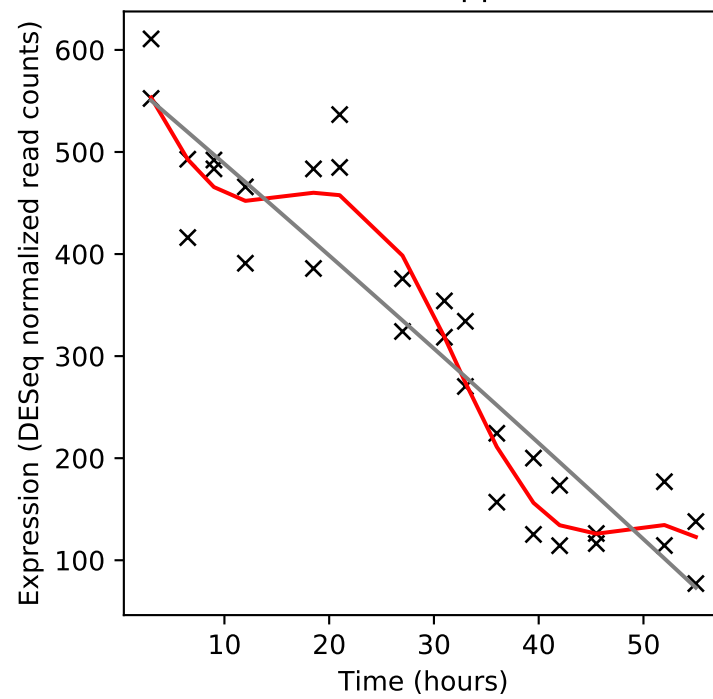
Rv3626c/-



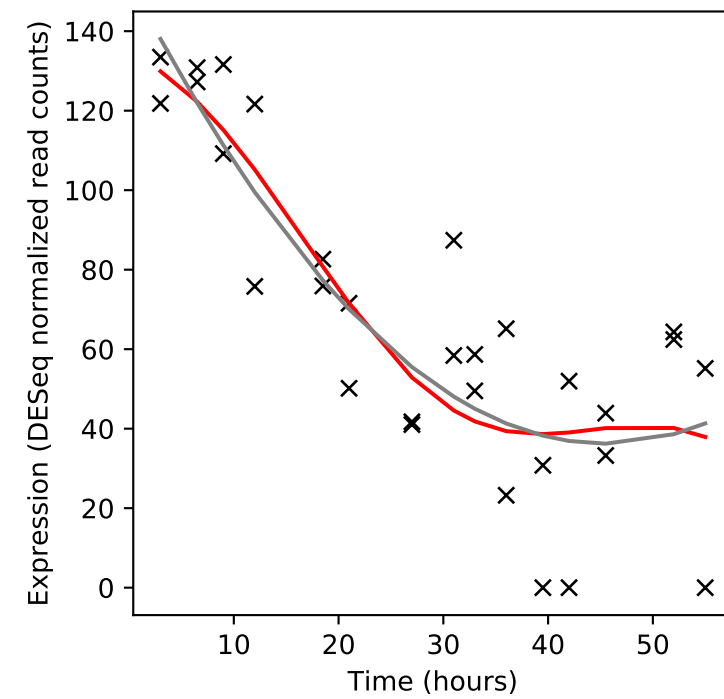
Rv3627c/-



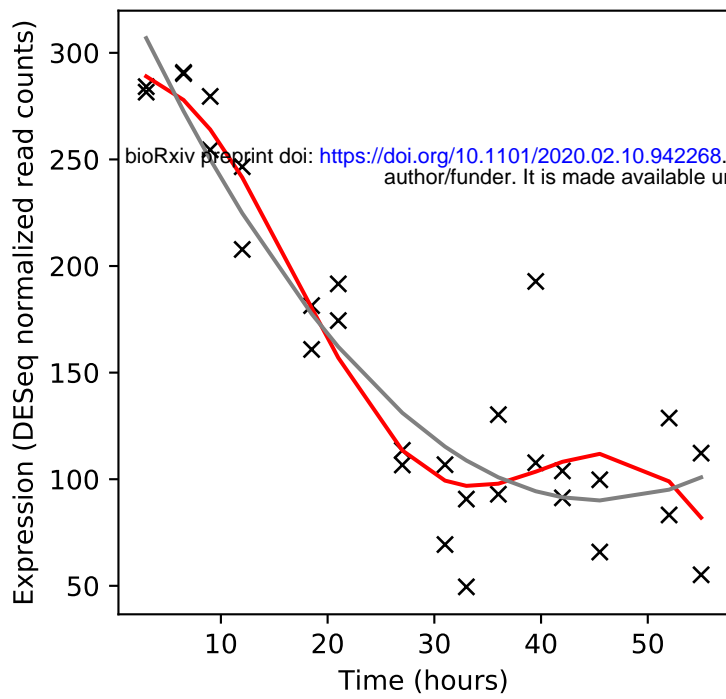
Rv3628/ppa



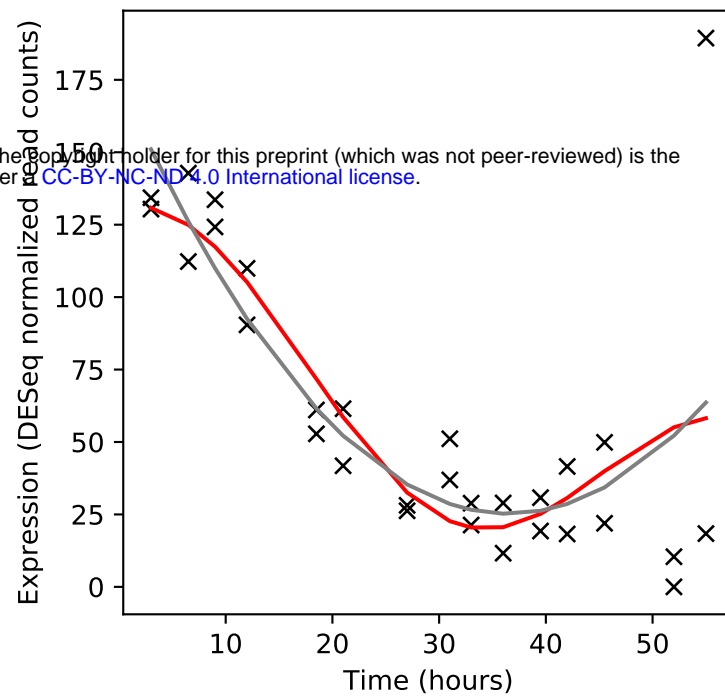
Rv3629c/-



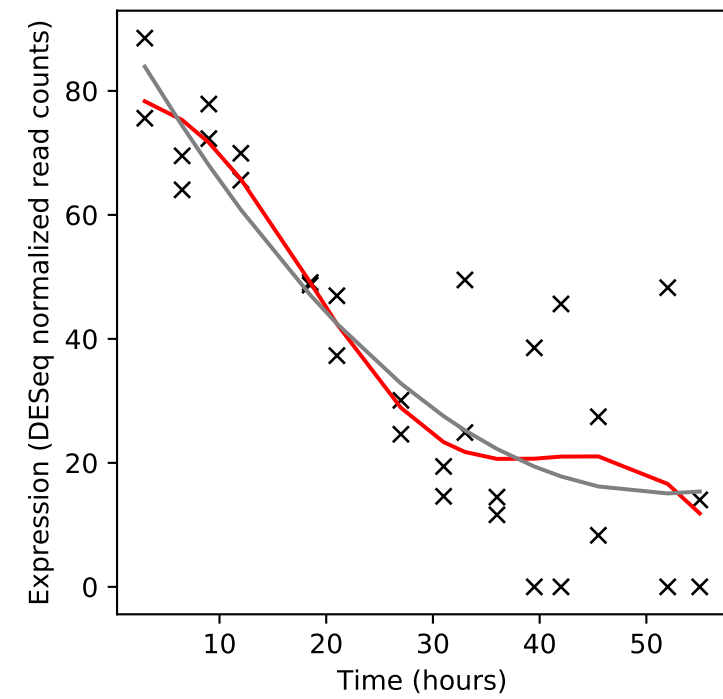
Rv3630/-



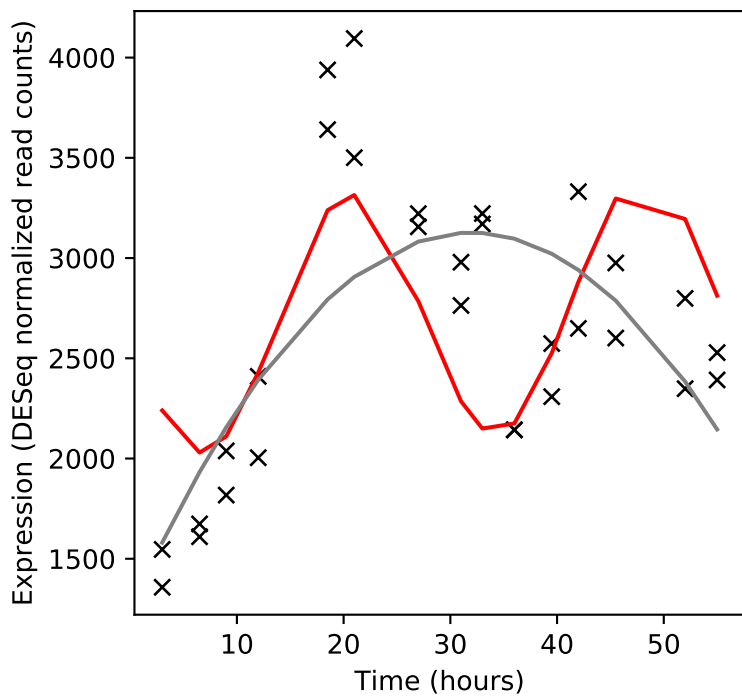
Rv3631/-



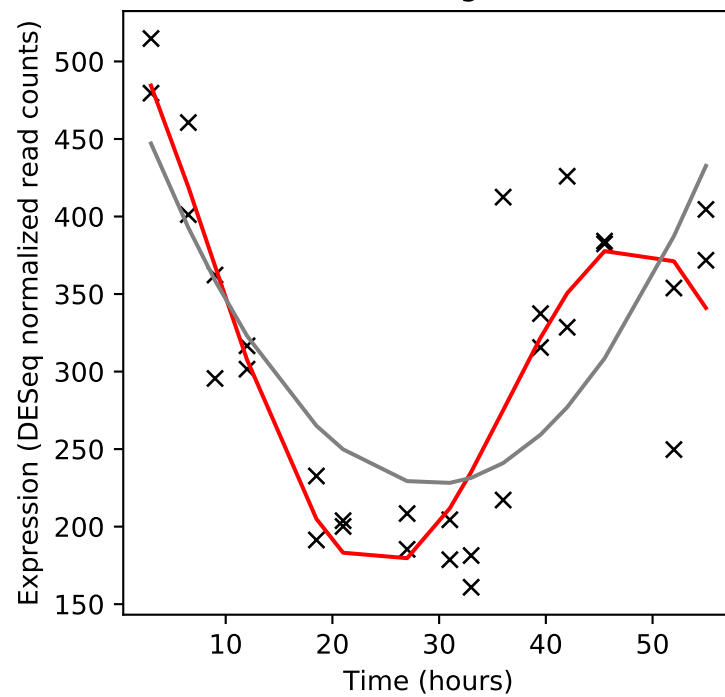
Rv3632/-



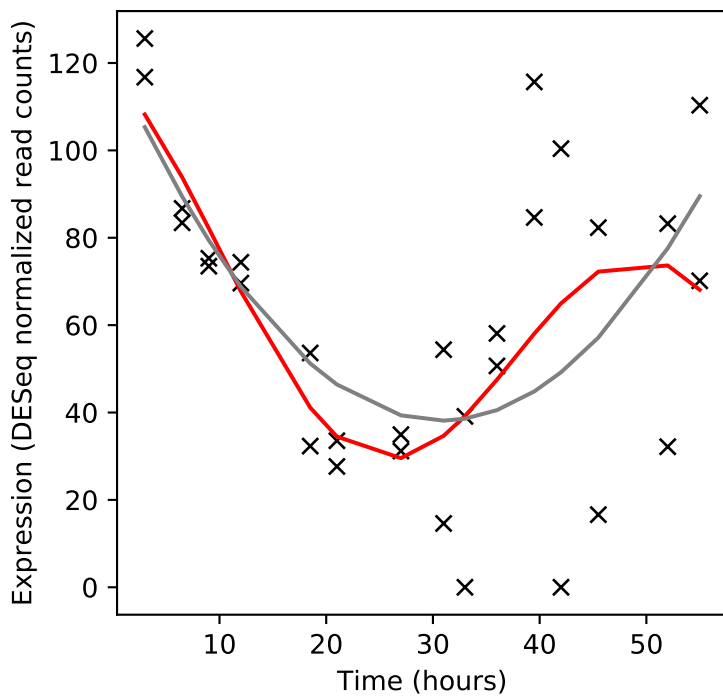
Rv3633/-



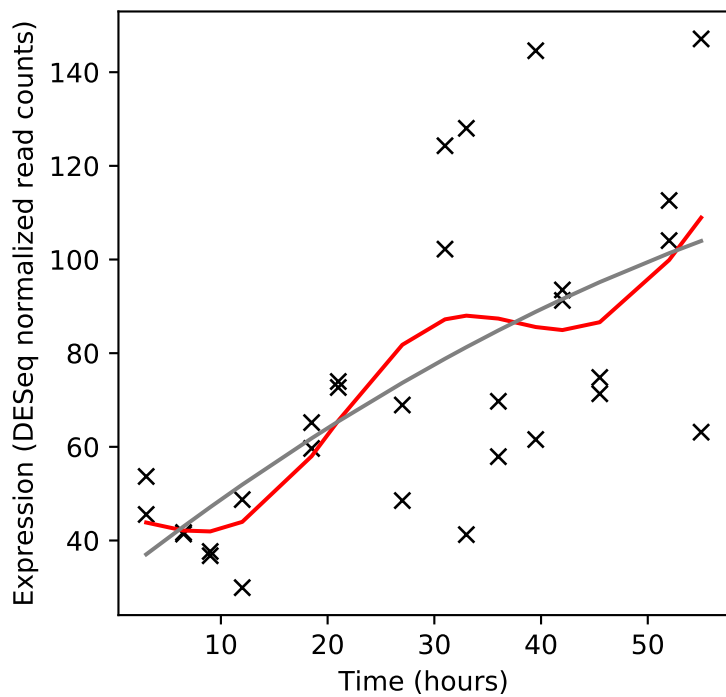
Rv3634c/galE1



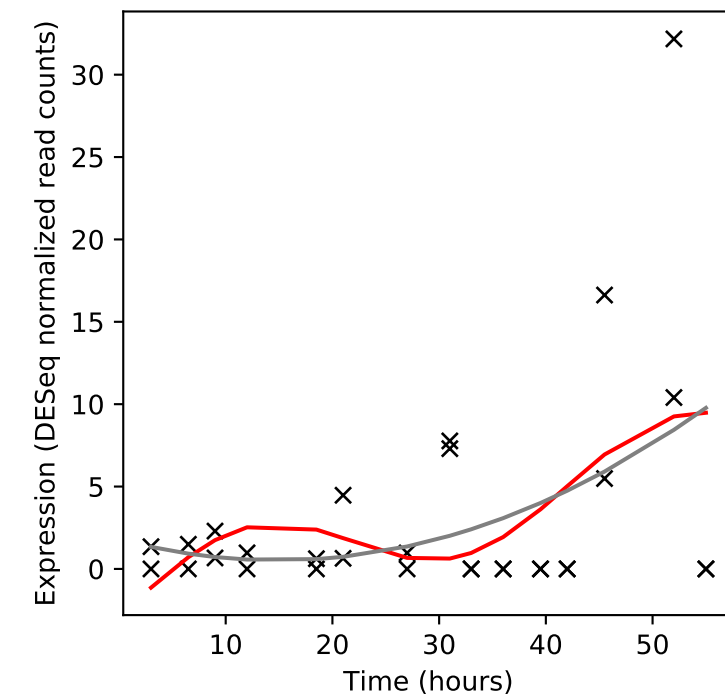
Rv3635/-



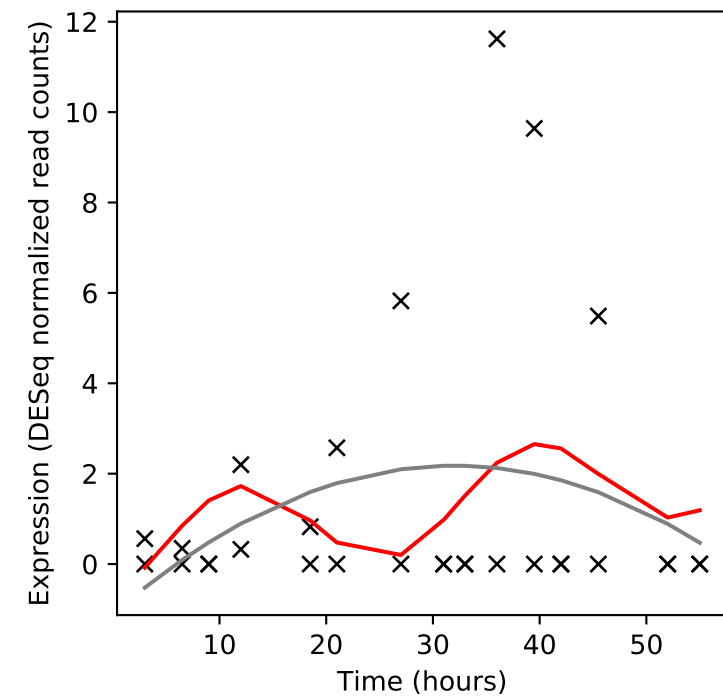
Rv3636/-



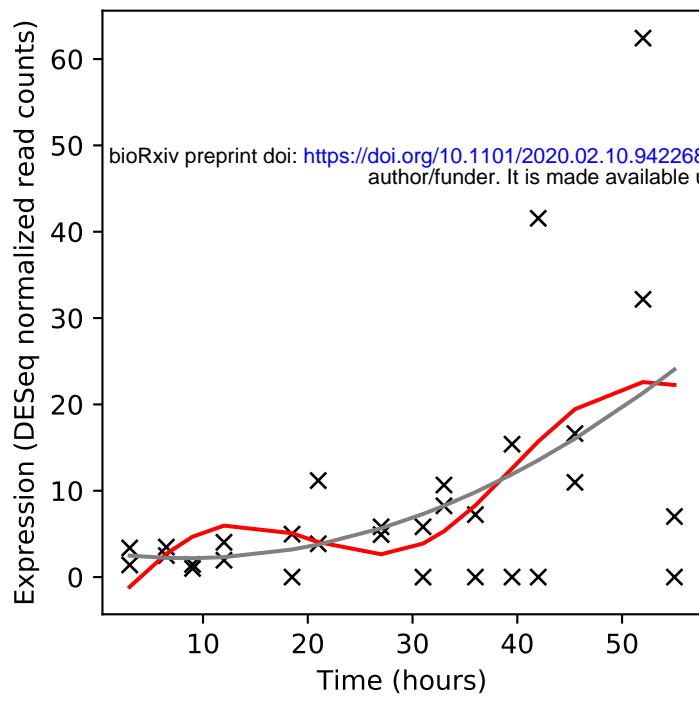
Rv3637/-



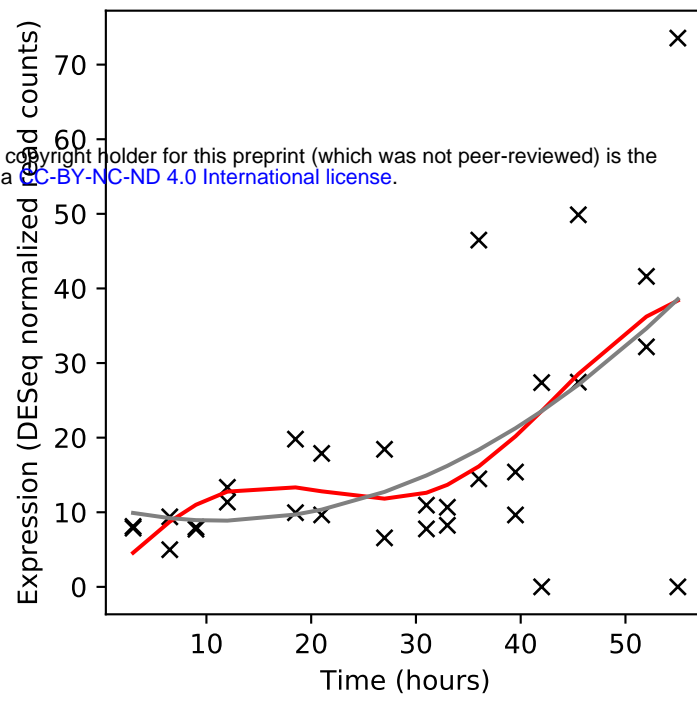
Rv3638/-



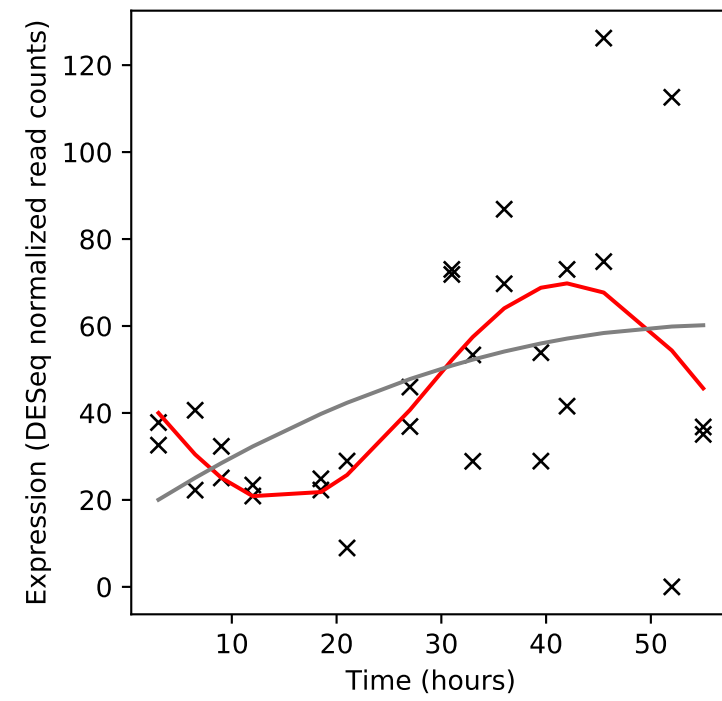
Rv3639c/-



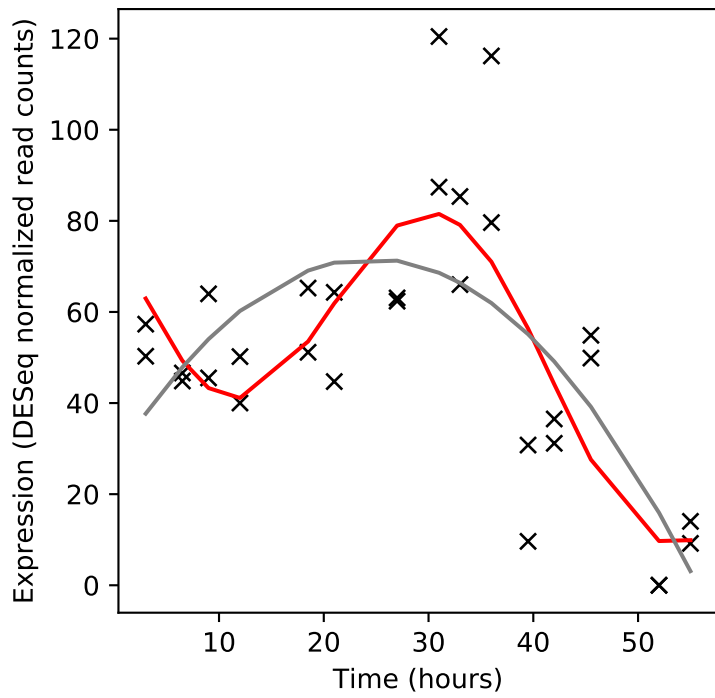
Rv3640c/-



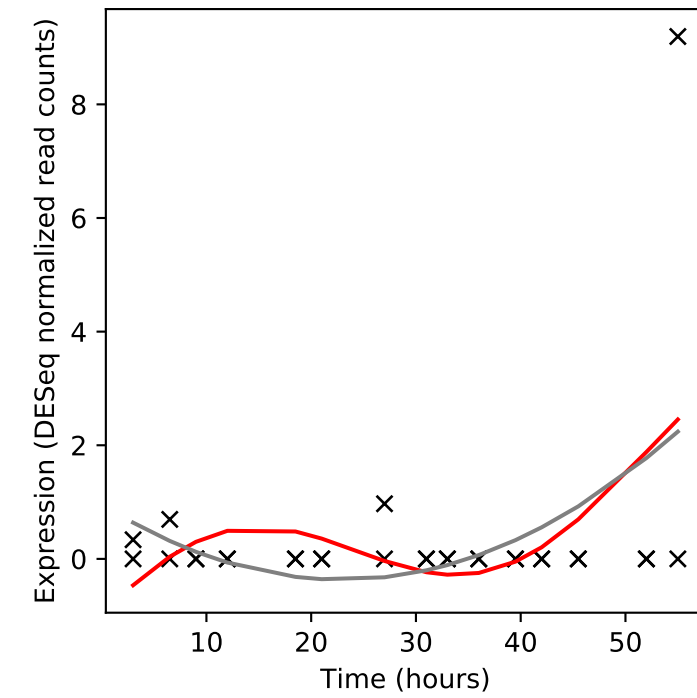
Rv3641c/fic



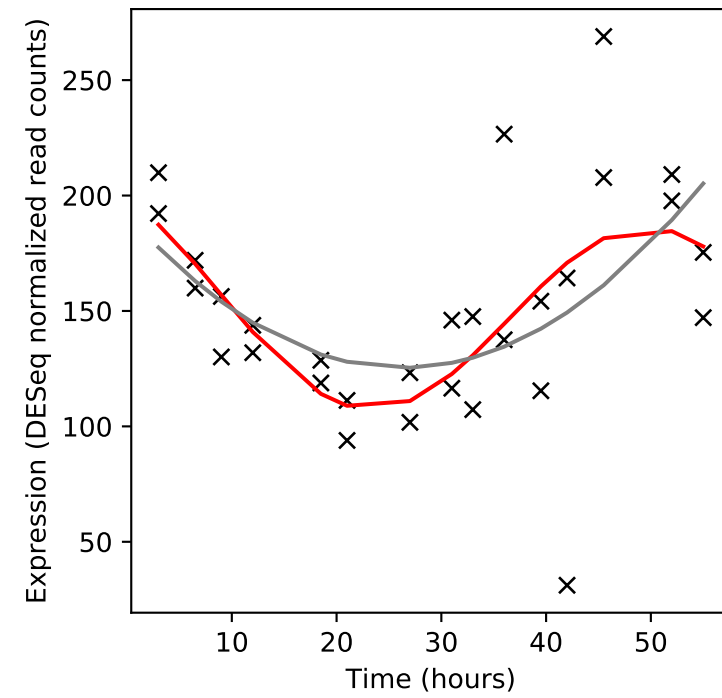
Rv3642c/-



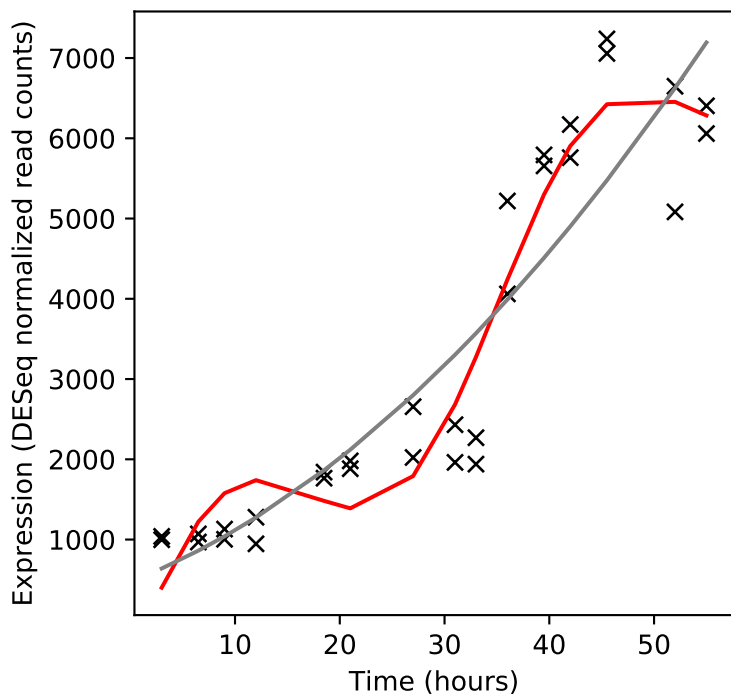
Rv3643/-



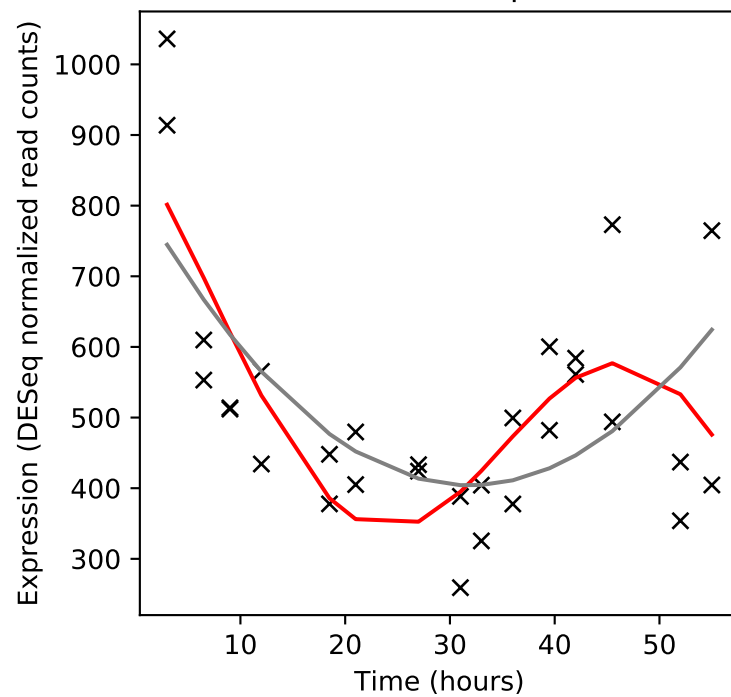
Rv3644c/-



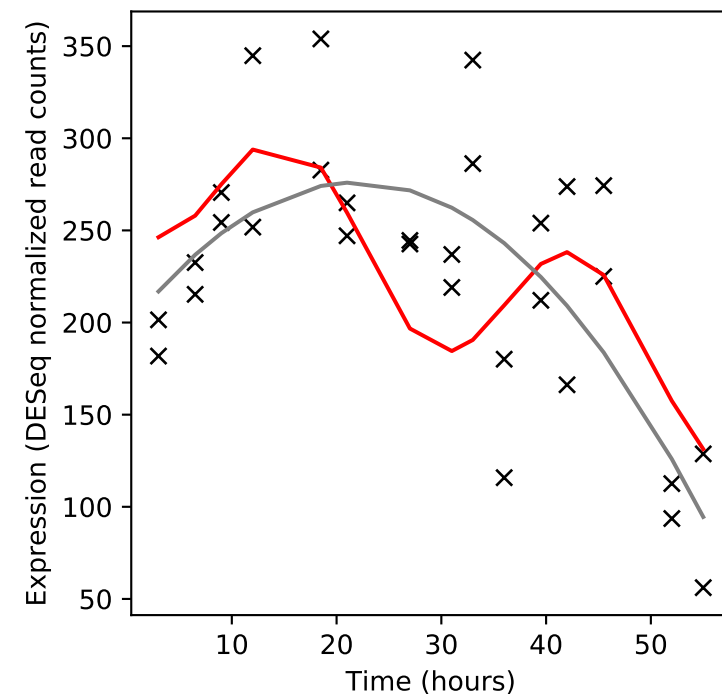
Rv3645/-



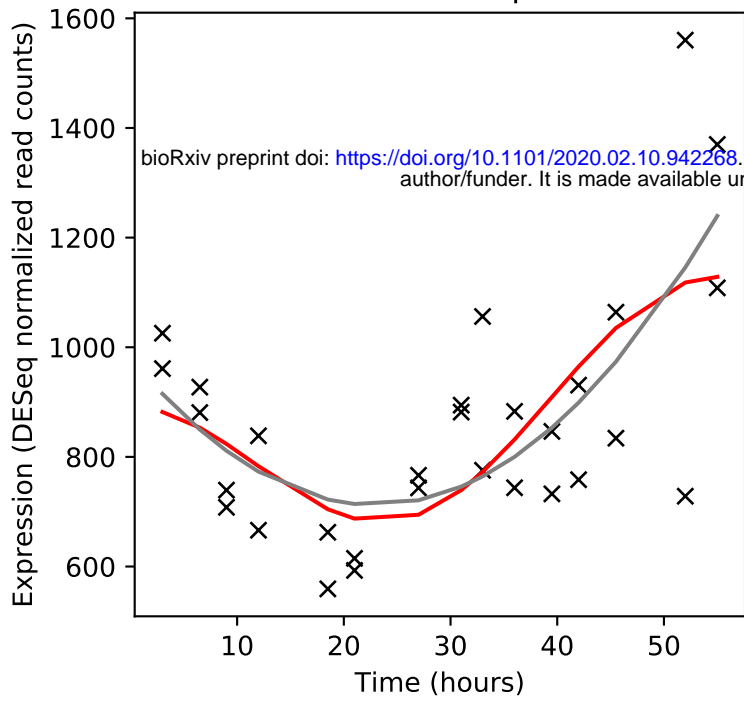
Rv3646c/topA



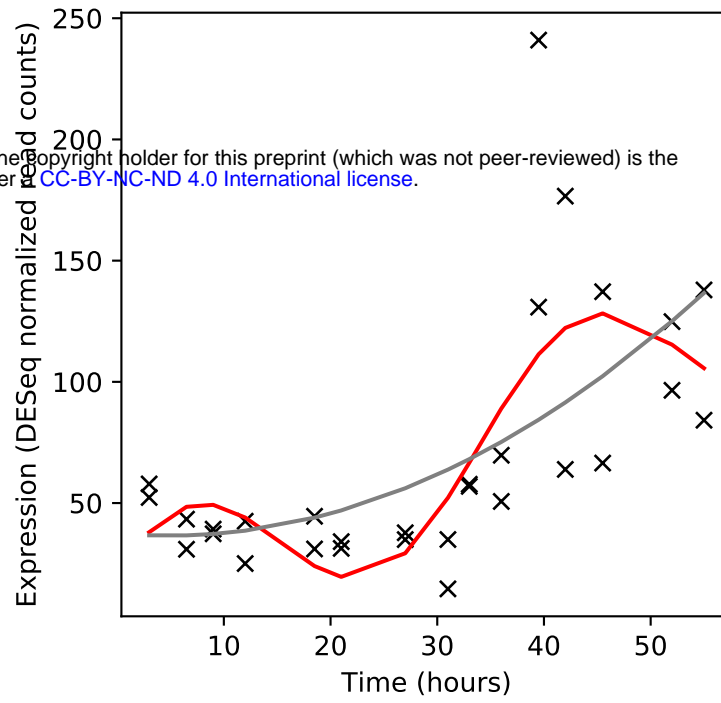
Rv3647c/-



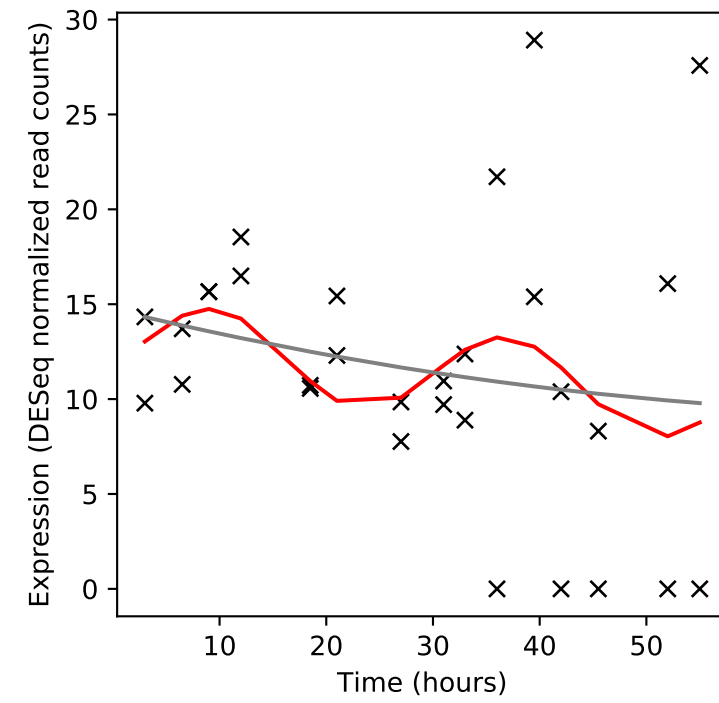
Rv3648c/cspA



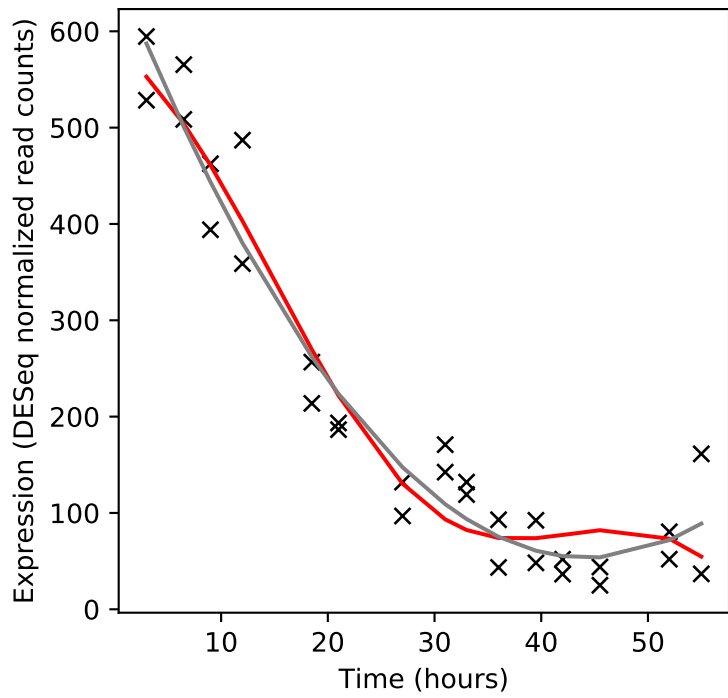
Rv3649/-



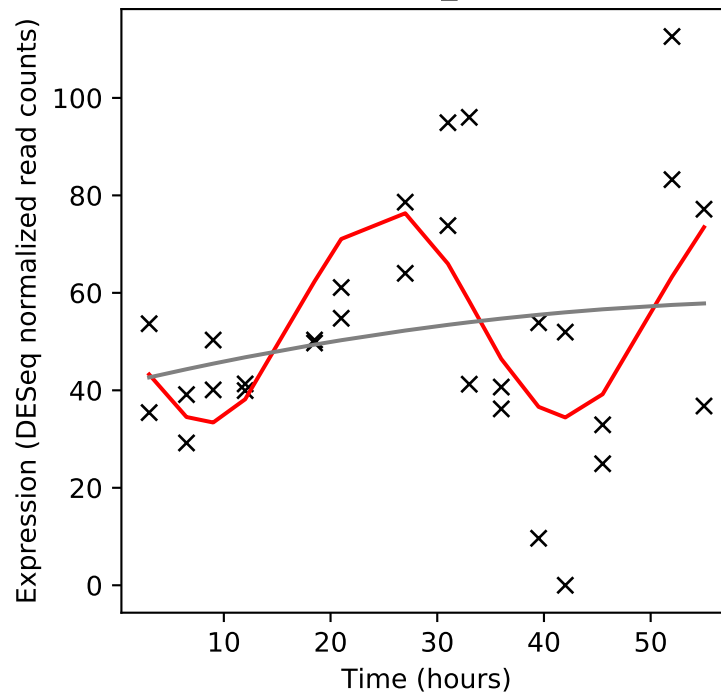
Rv3650/PE33



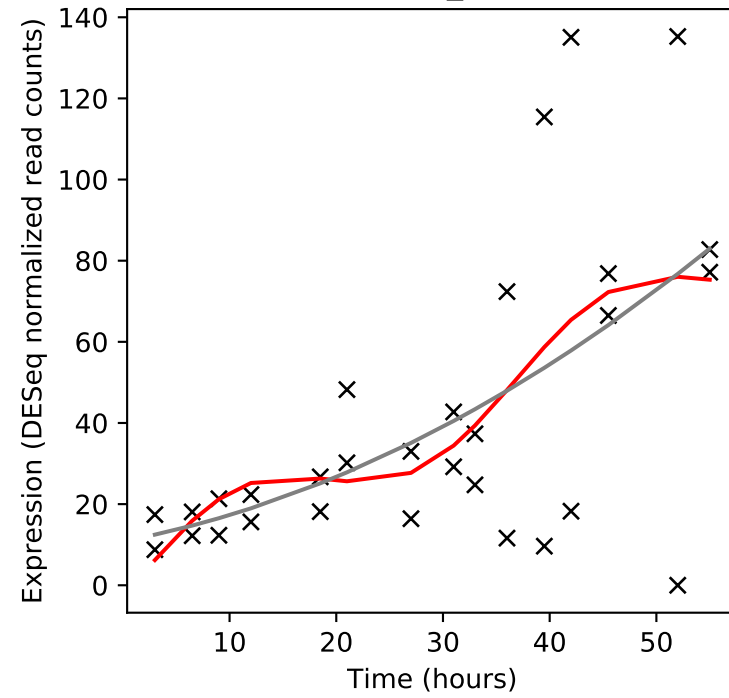
Rv3651/-



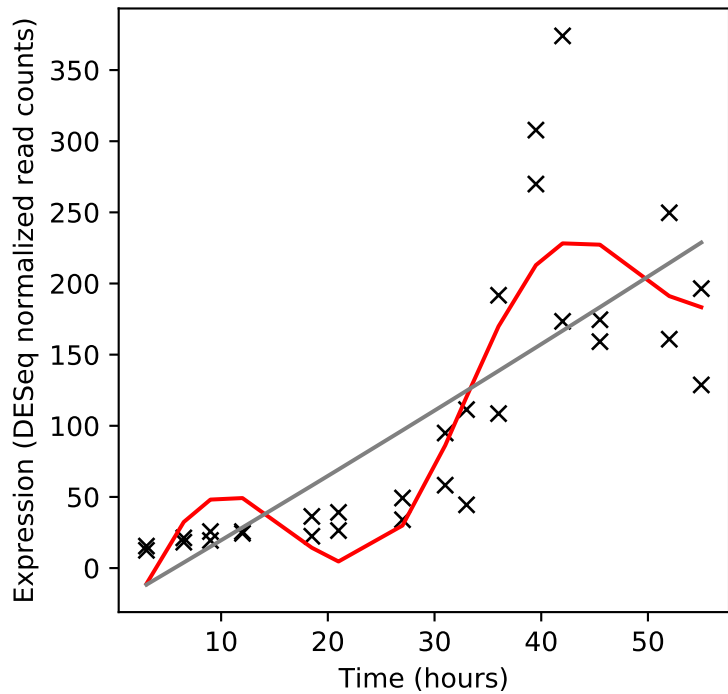
Rv3652/PE_PGRS60



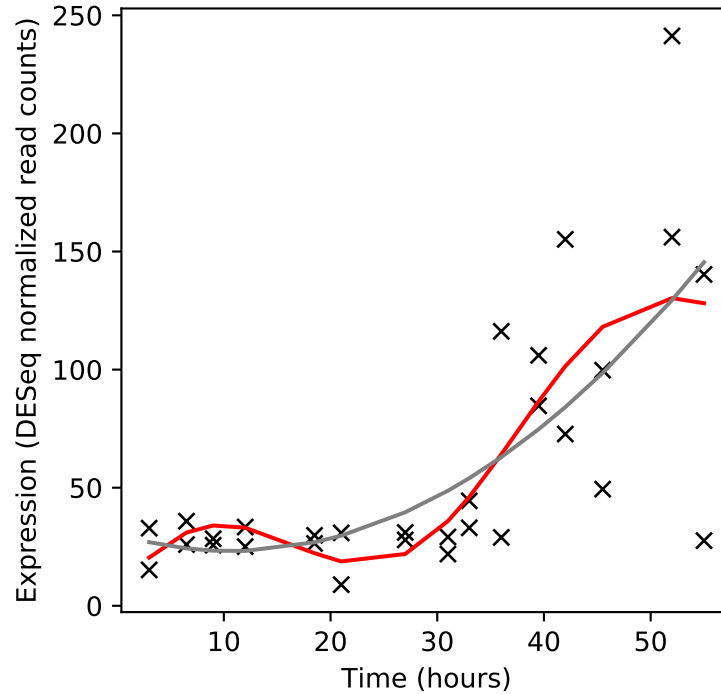
Rv3653/PE_PGRS61



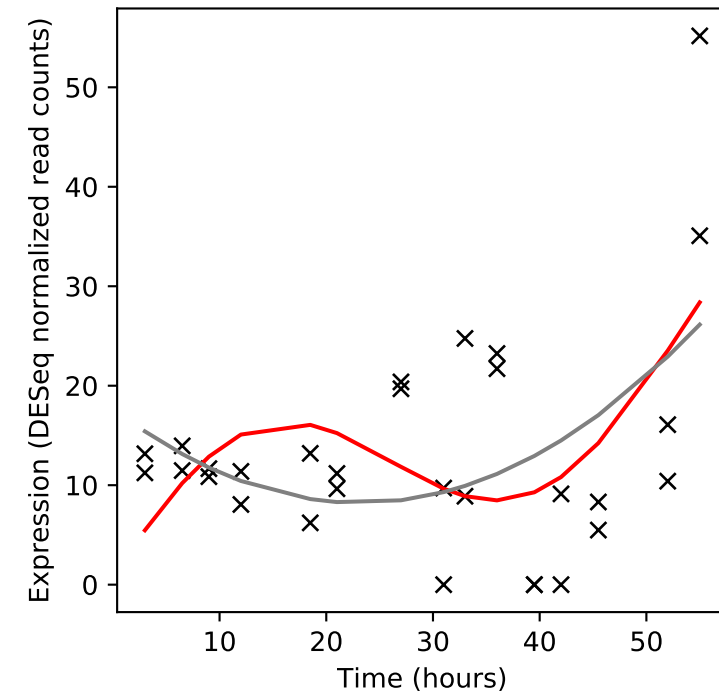
Rv3654c/-



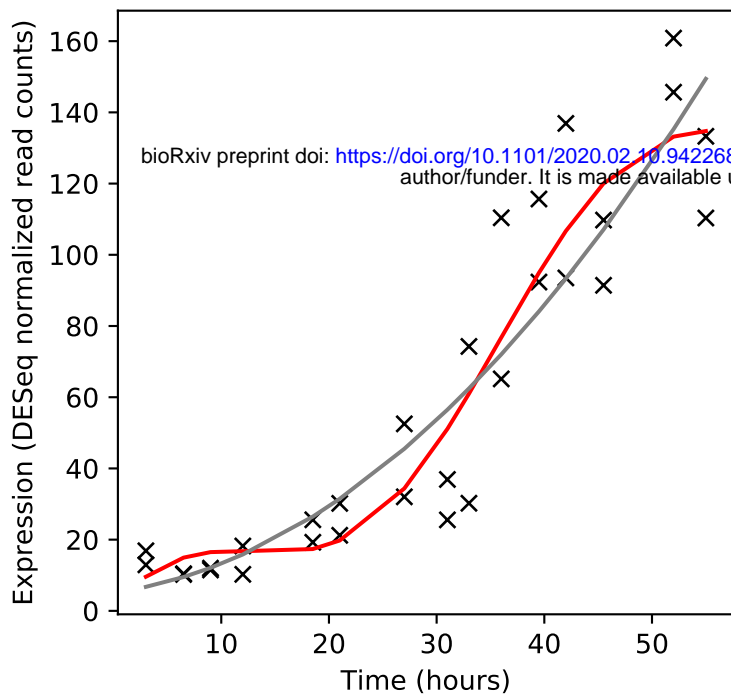
Rv3655c/-



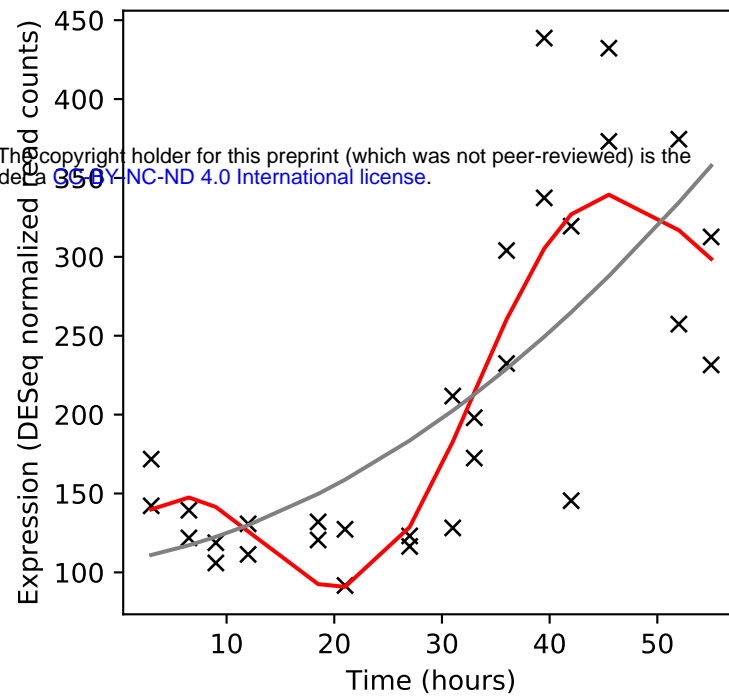
Rv3656c/-



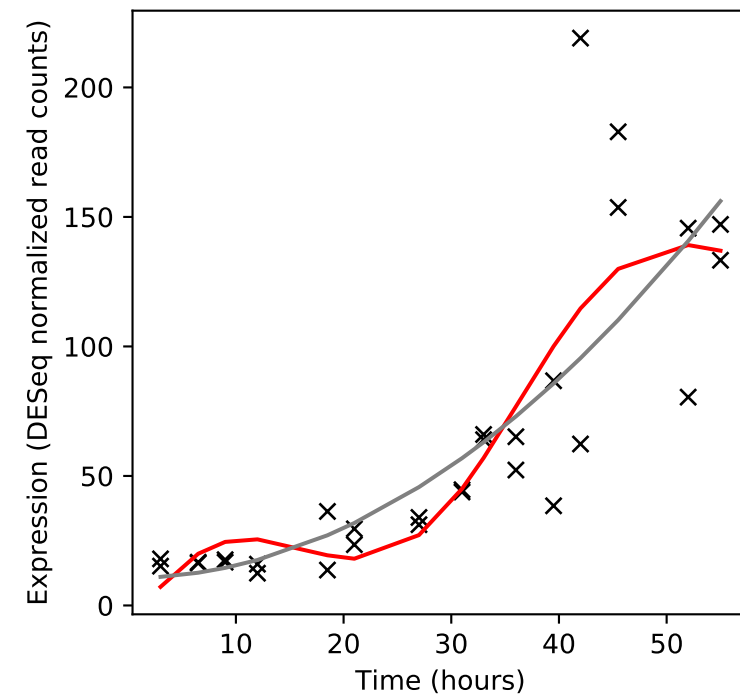
Rv3657c/-



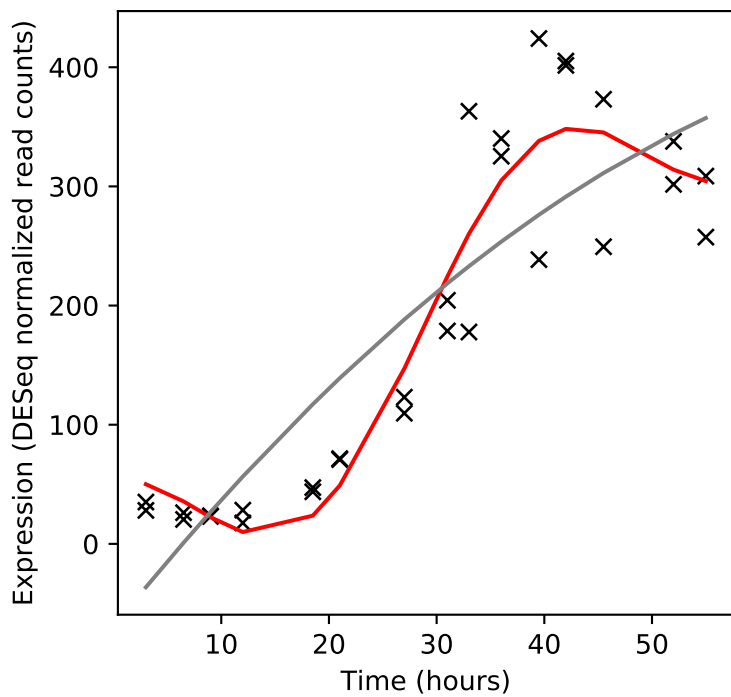
Rv3658c/-



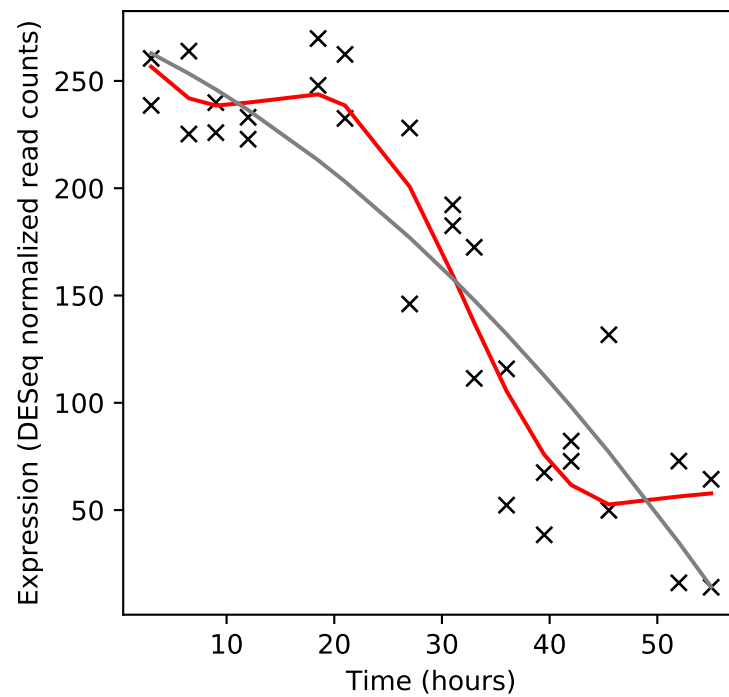
Rv3659c/-



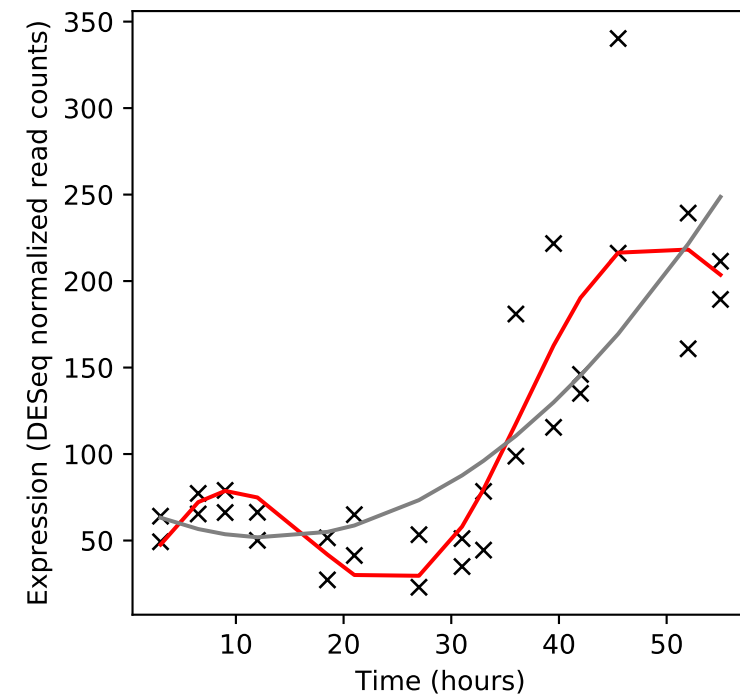
Rv3660c/-



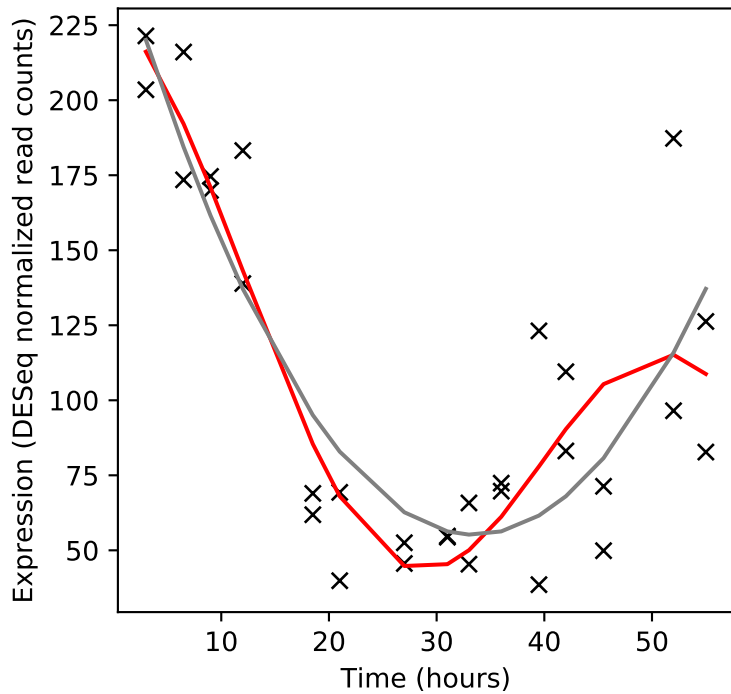
Rv3661/-



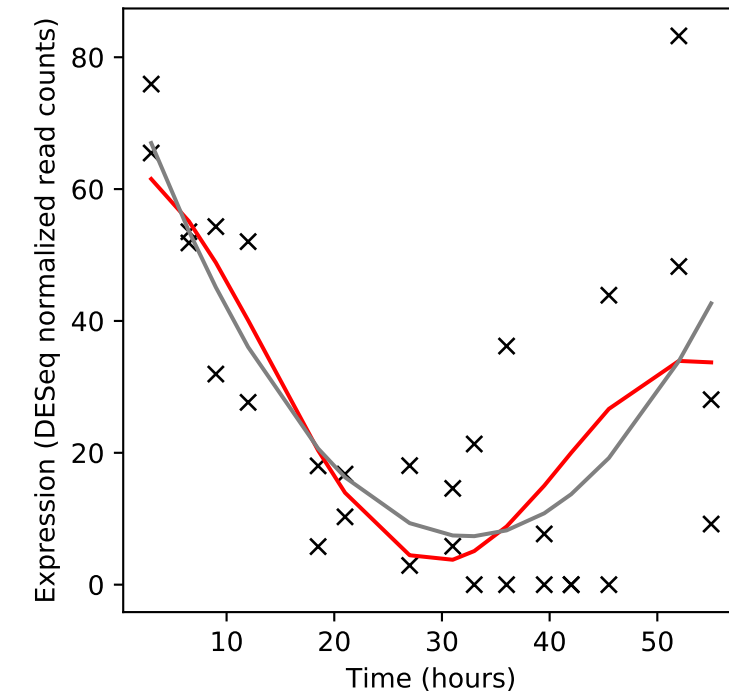
Rv3662c/-



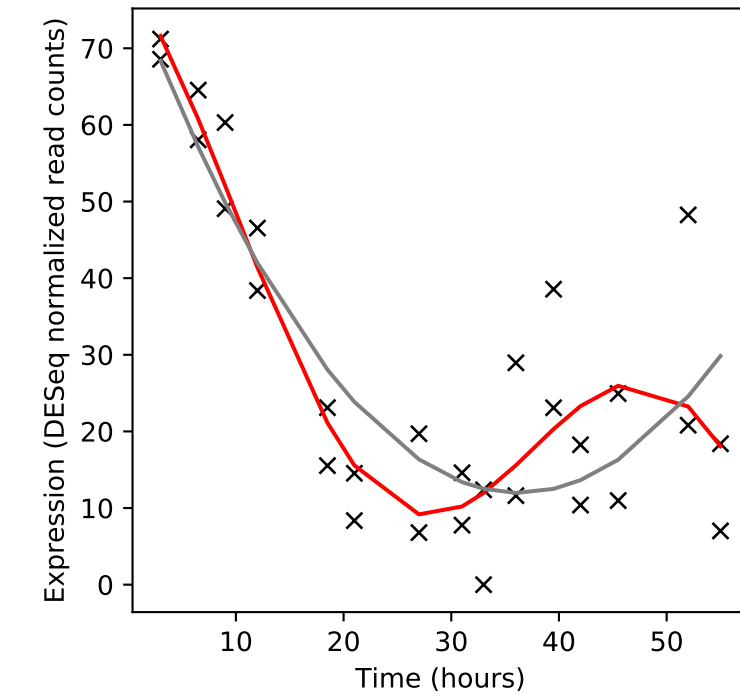
Rv3663c/dppD



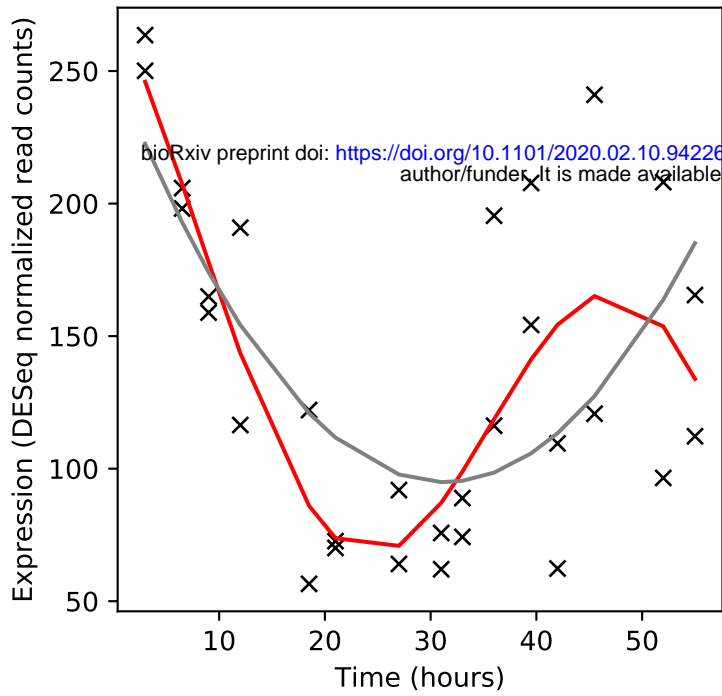
Rv3664c/dppC



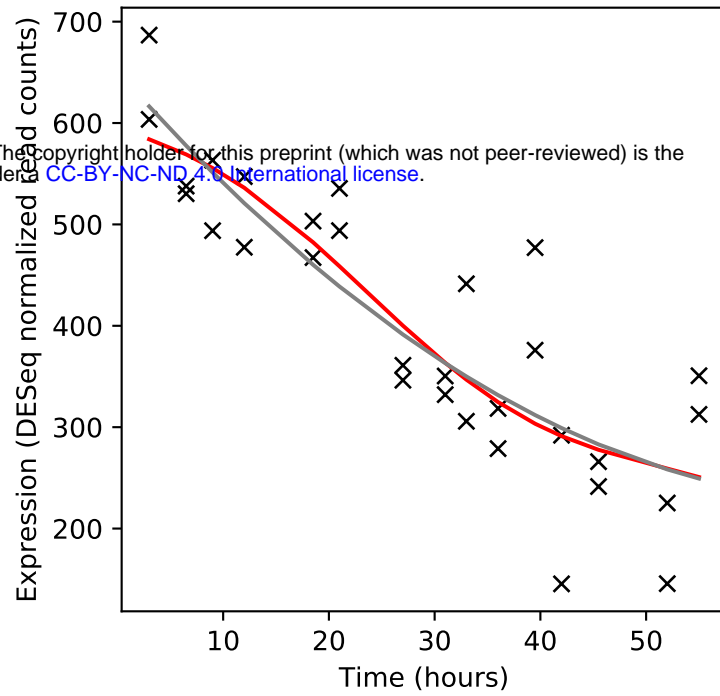
Rv3665c/dppB



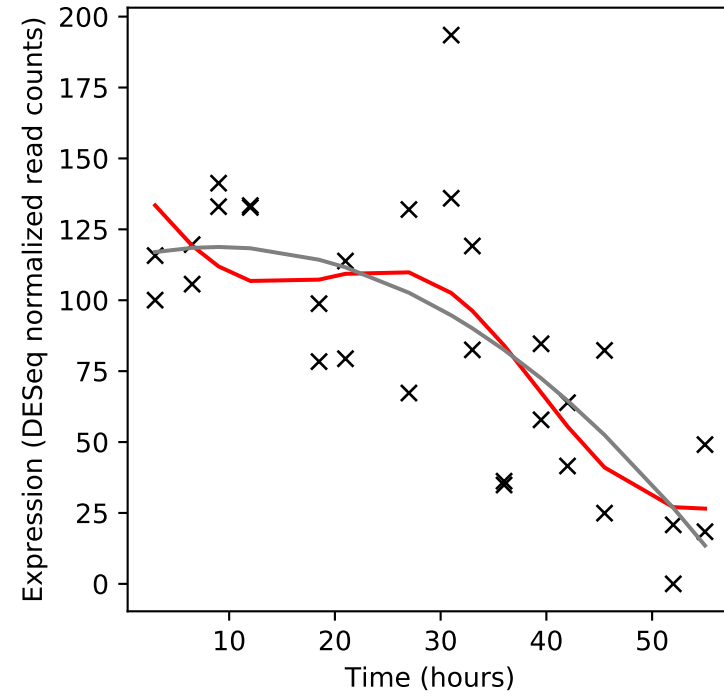
Rv3666c/dppA



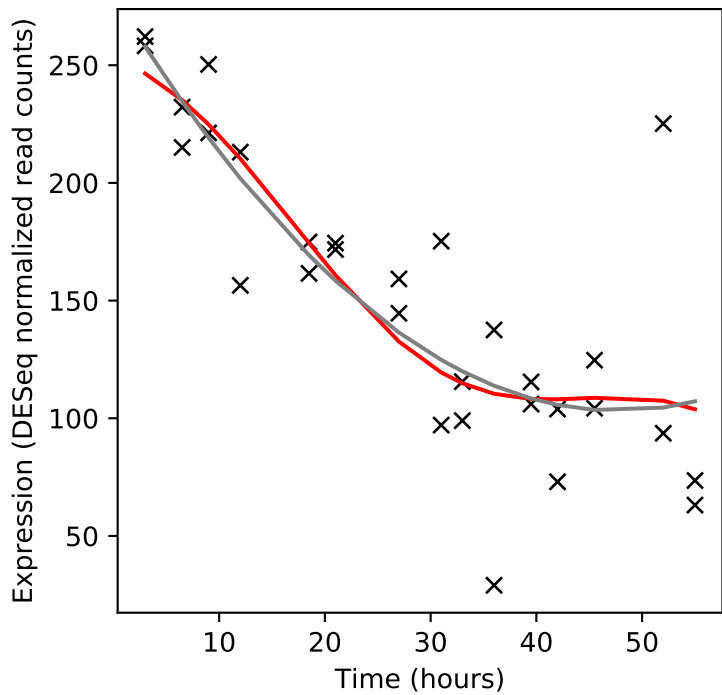
Rv3667/acs



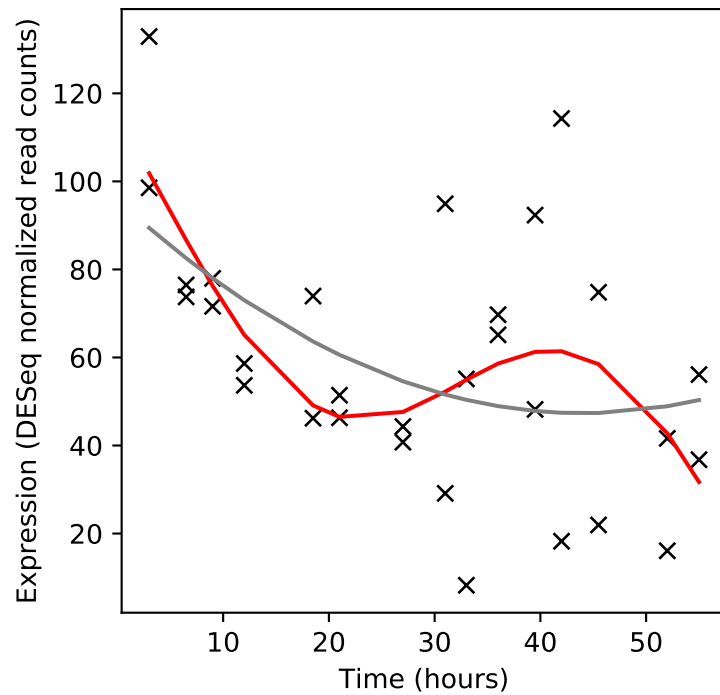
Rv3668c/-



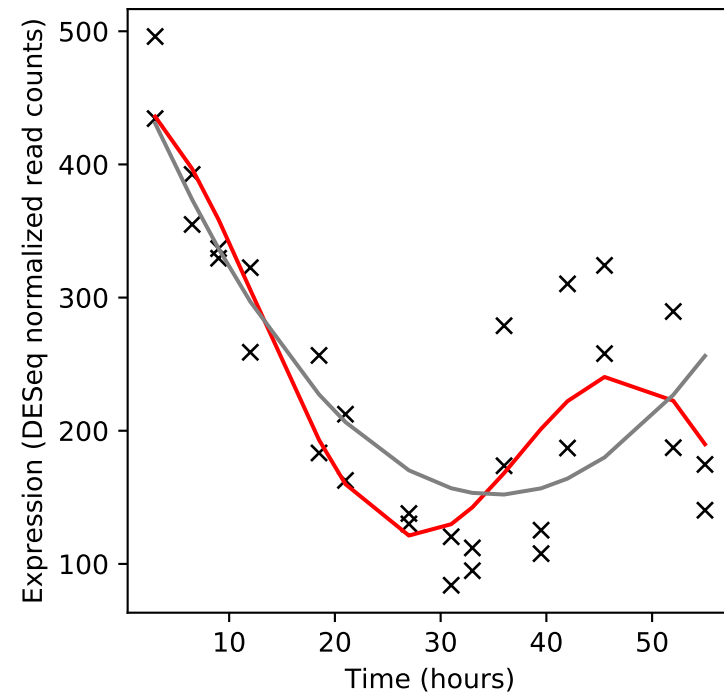
Rv3669/-



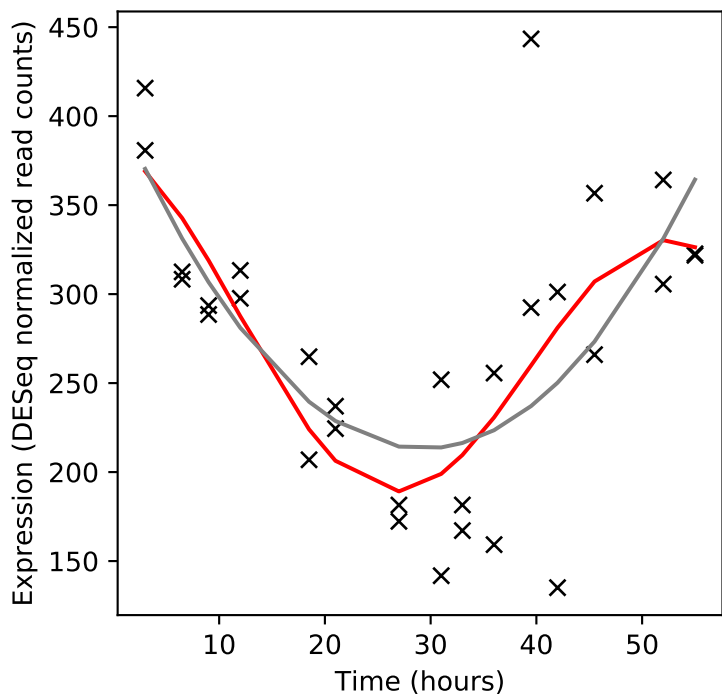
Rv3670/ephE



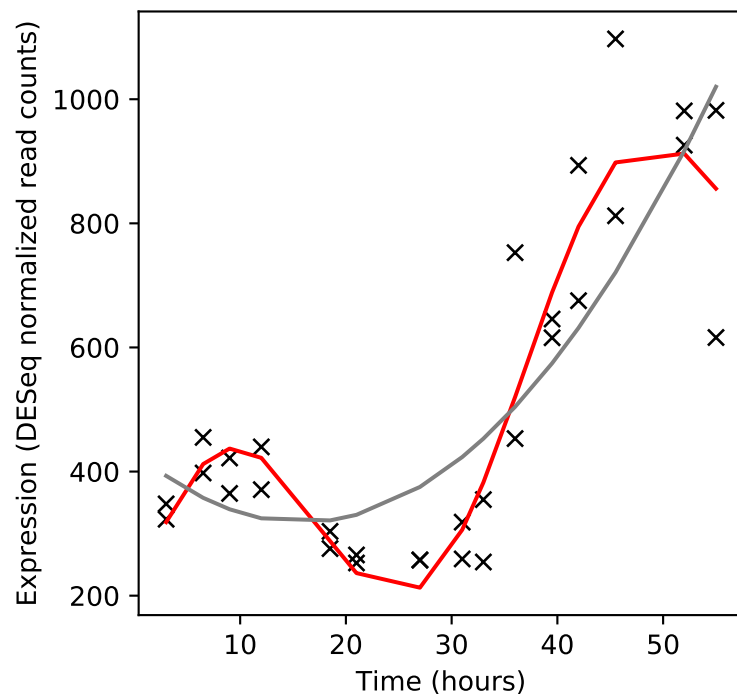
Rv3671c/-



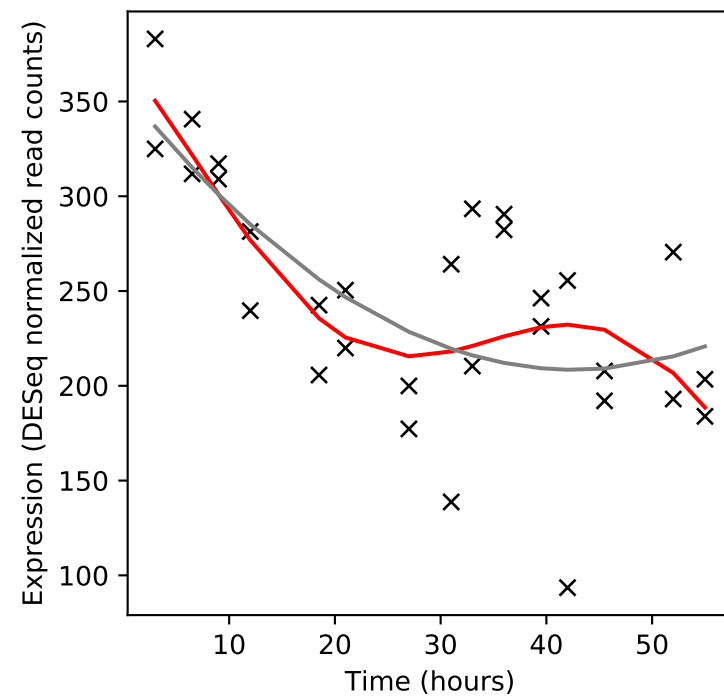
Rv3672c/-



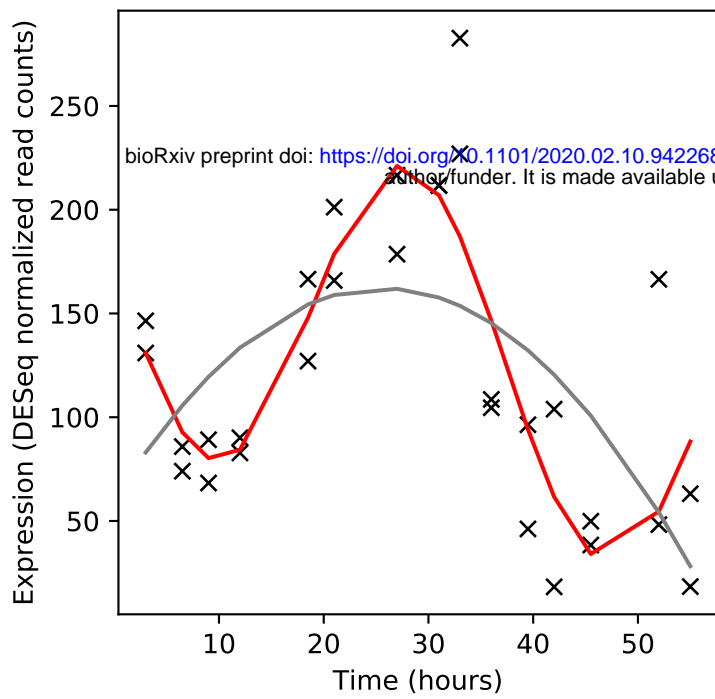
Rv3673c/-



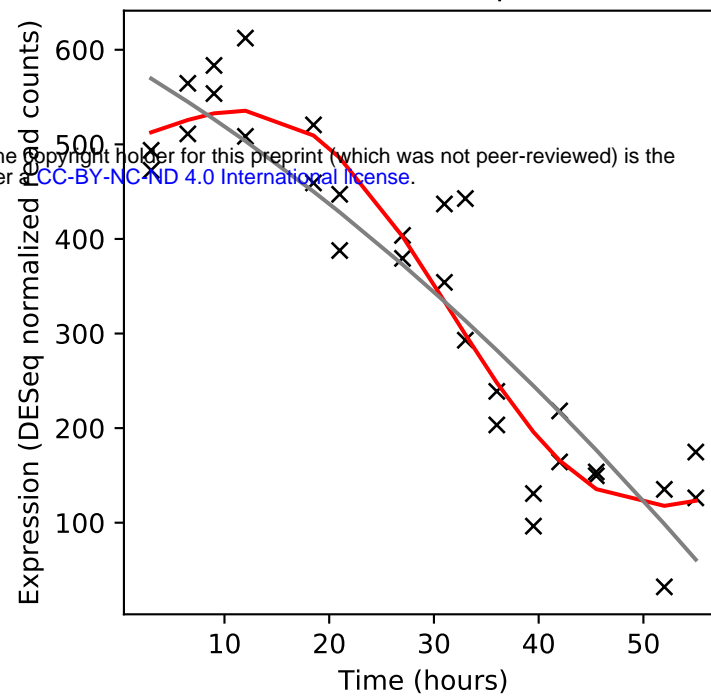
Rv3674c/nth



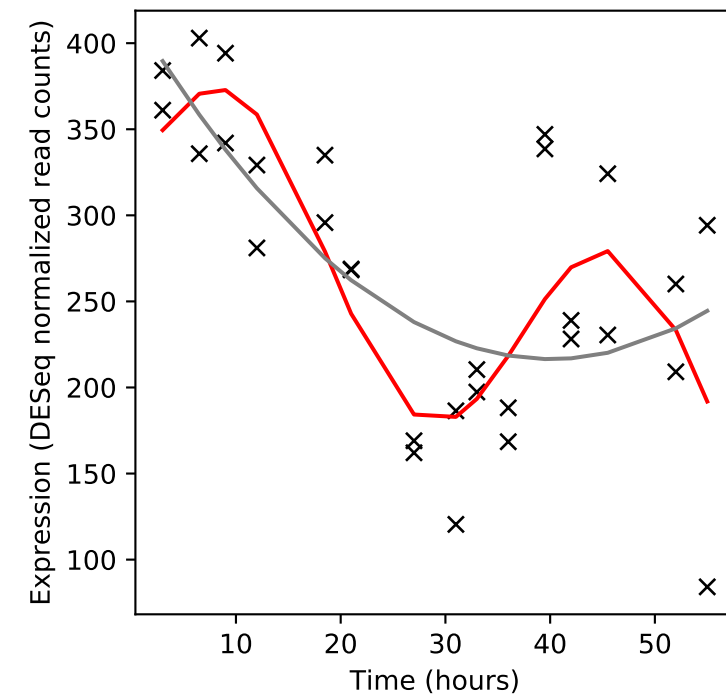
Rv3675/-



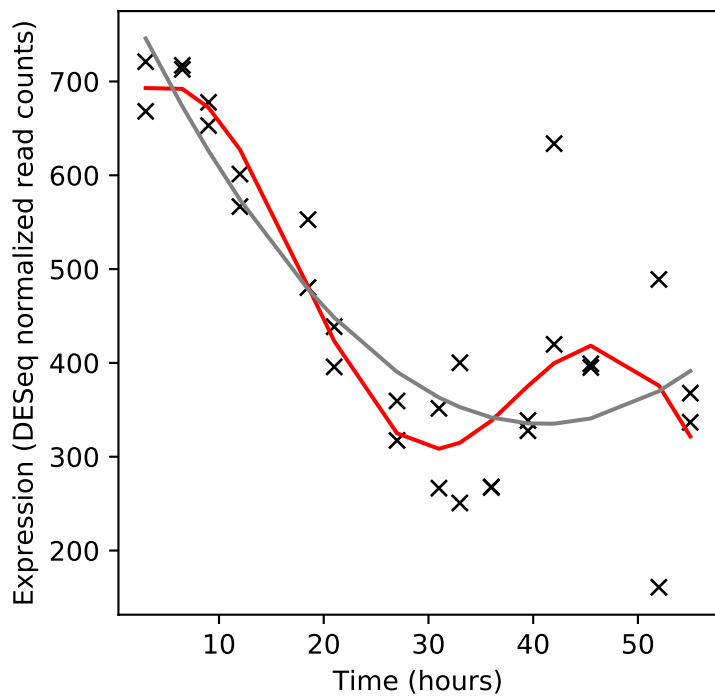
Rv3676/crp



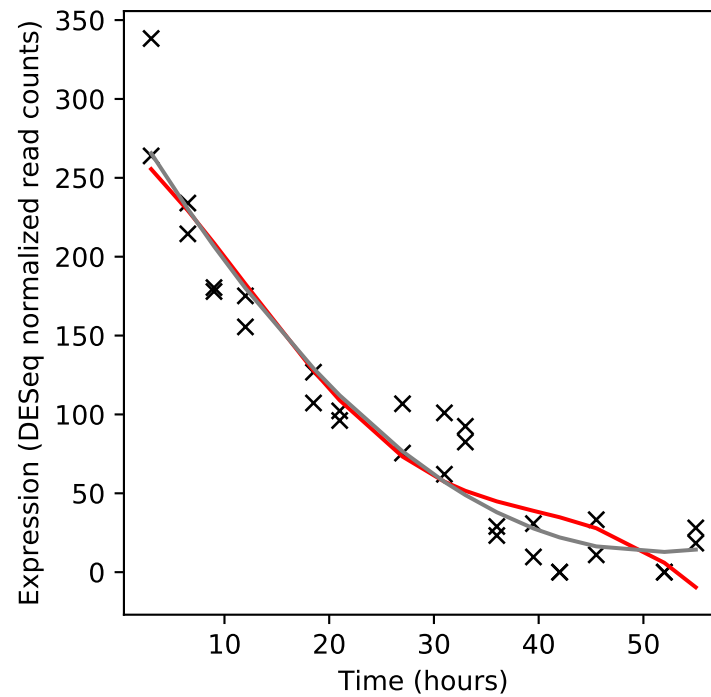
Rv3677c/-



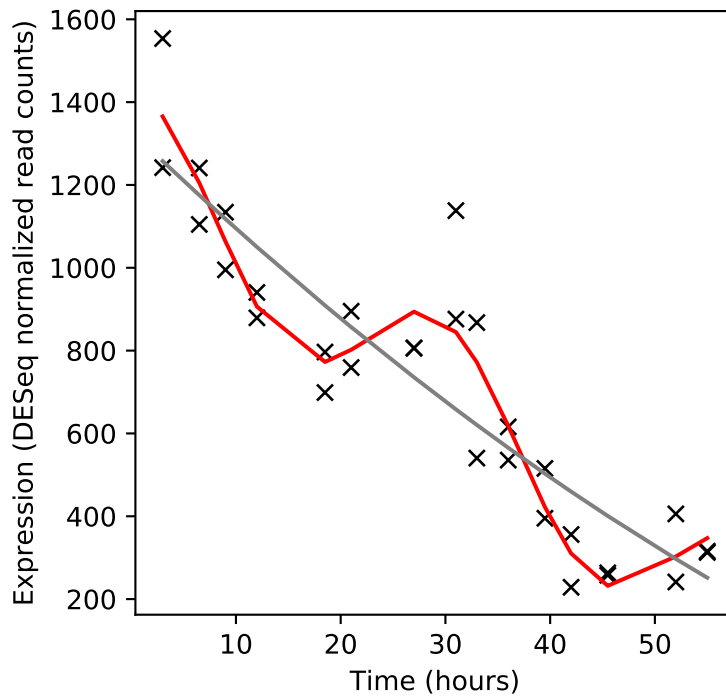
Rv3678c/-



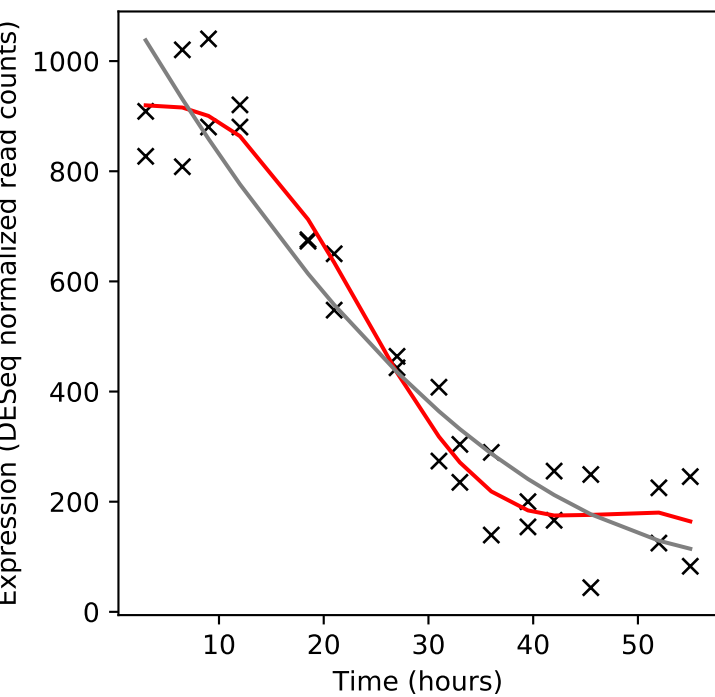
Rv3678A/-



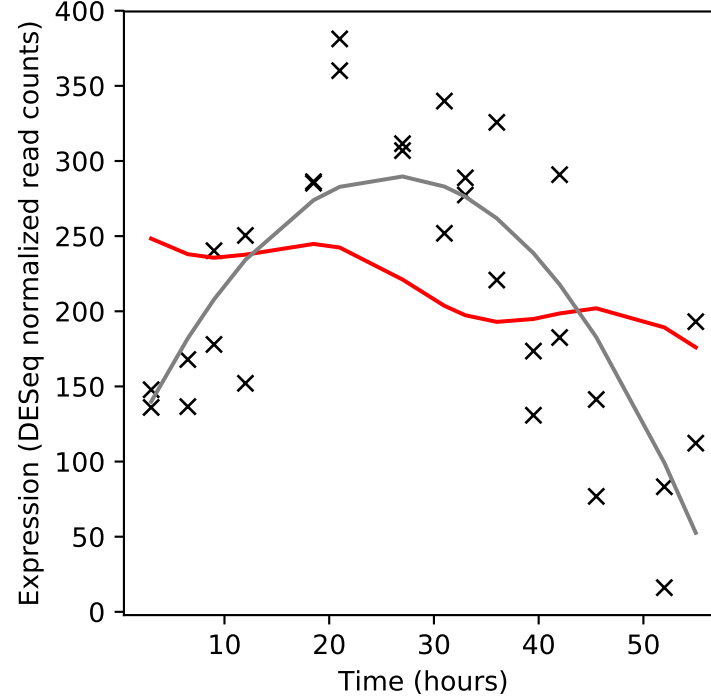
Rv3679/-



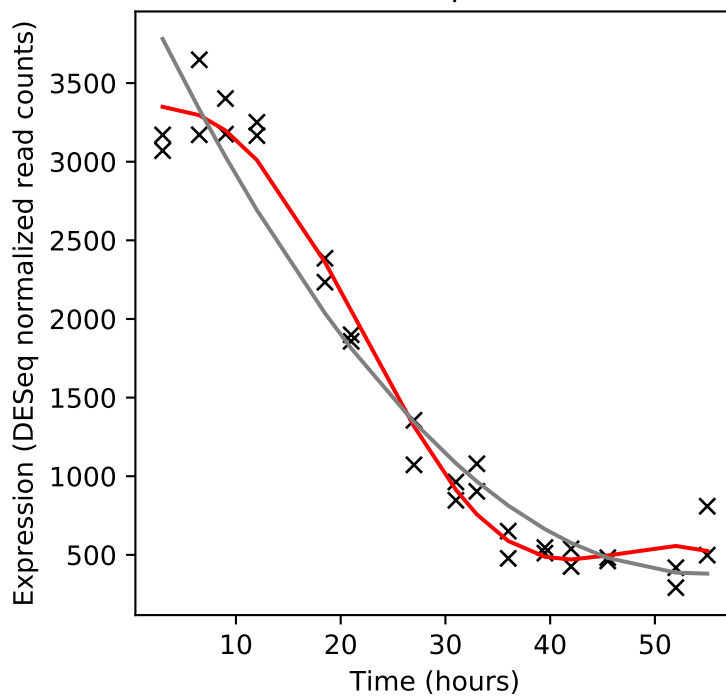
Rv3680/-



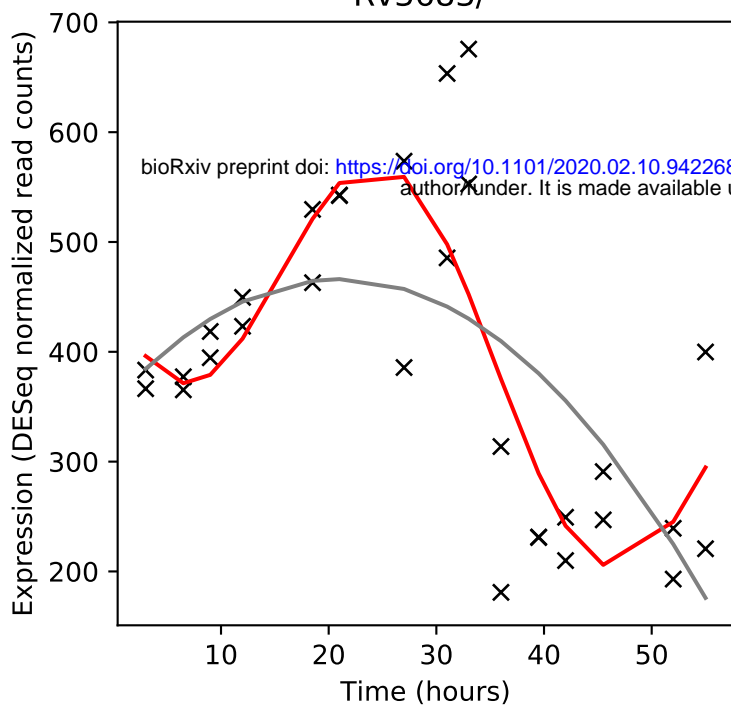
Rv3681c/whiB4



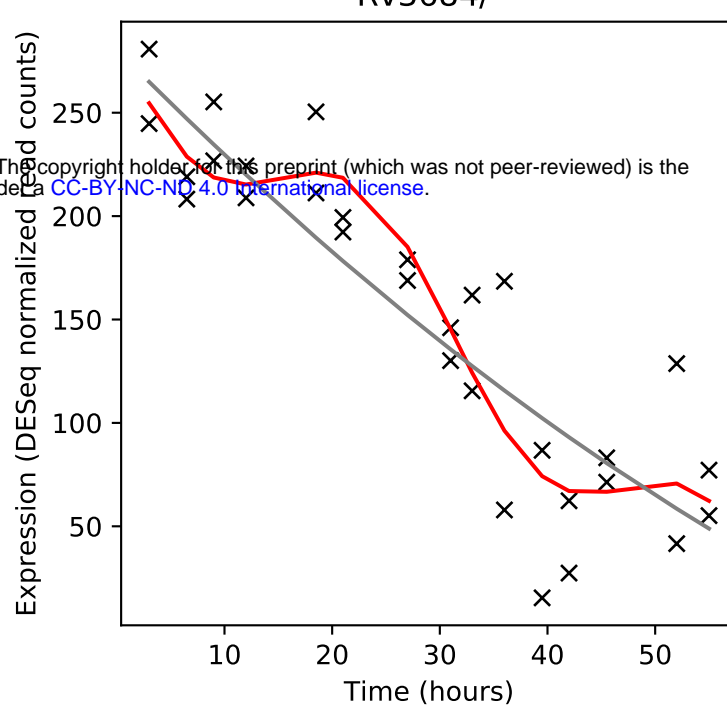
Rv3682/ponA2



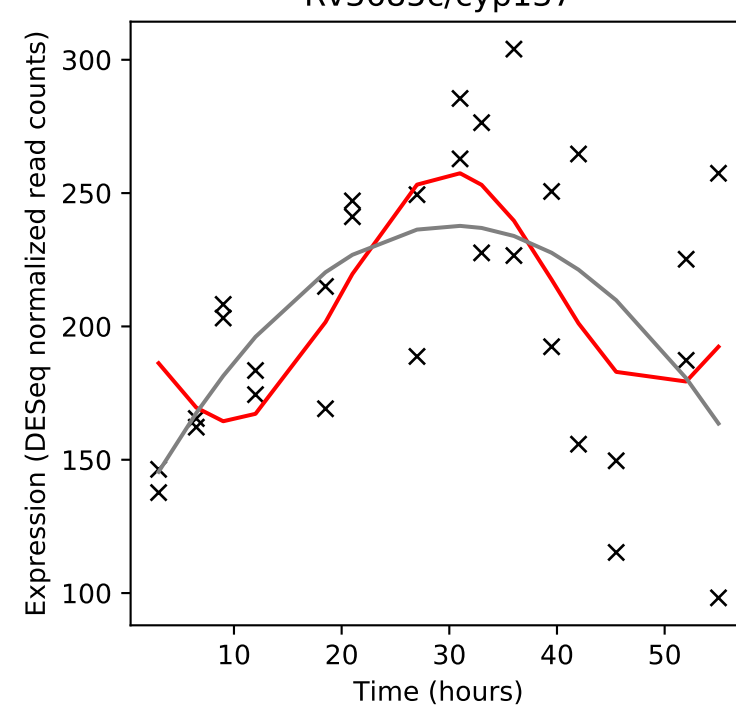
Rv3683/-



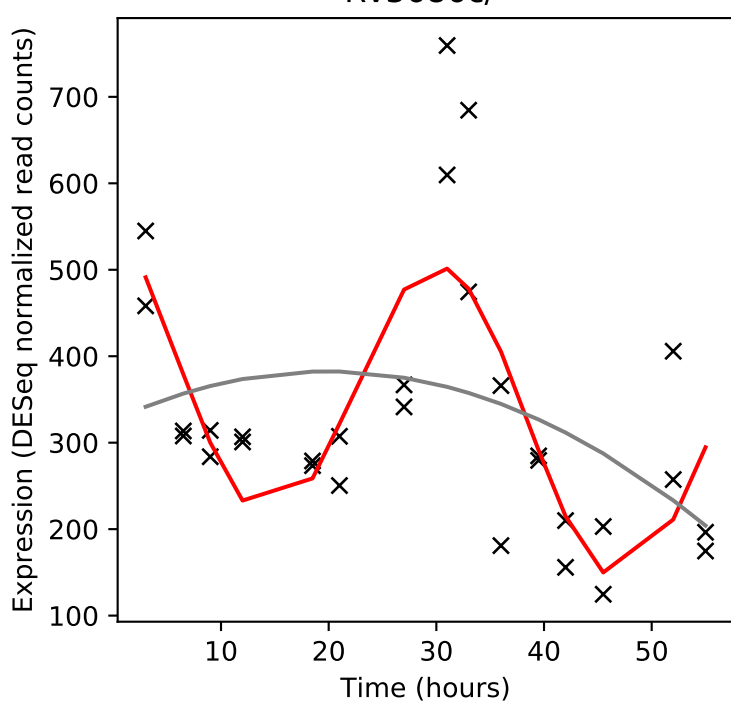
Rv3684/-



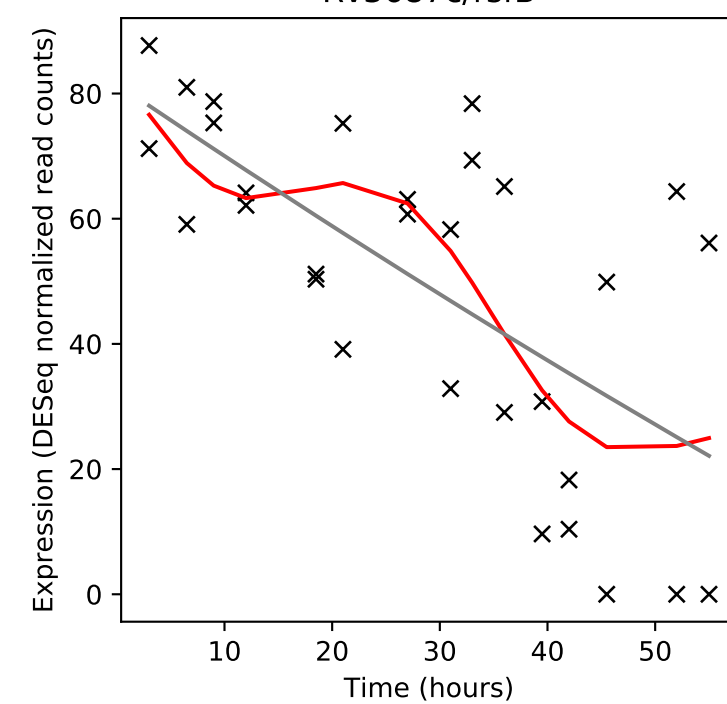
Rv3685c/cyp137



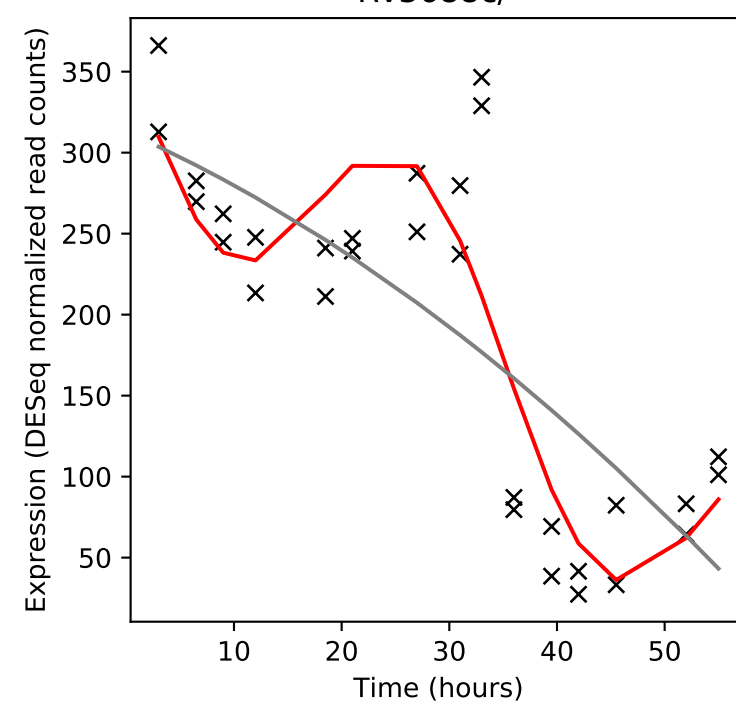
Rv3686c/-



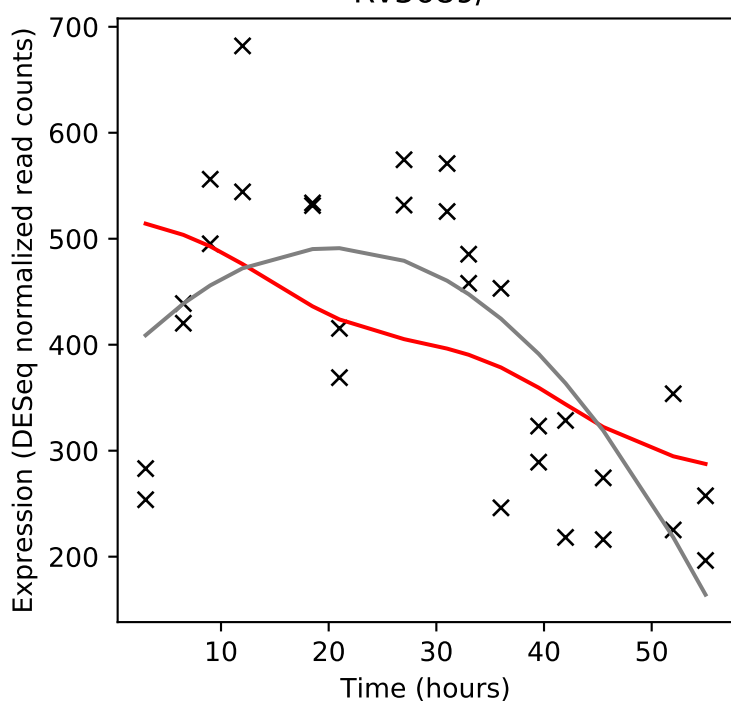
Rv3687c/rsfB



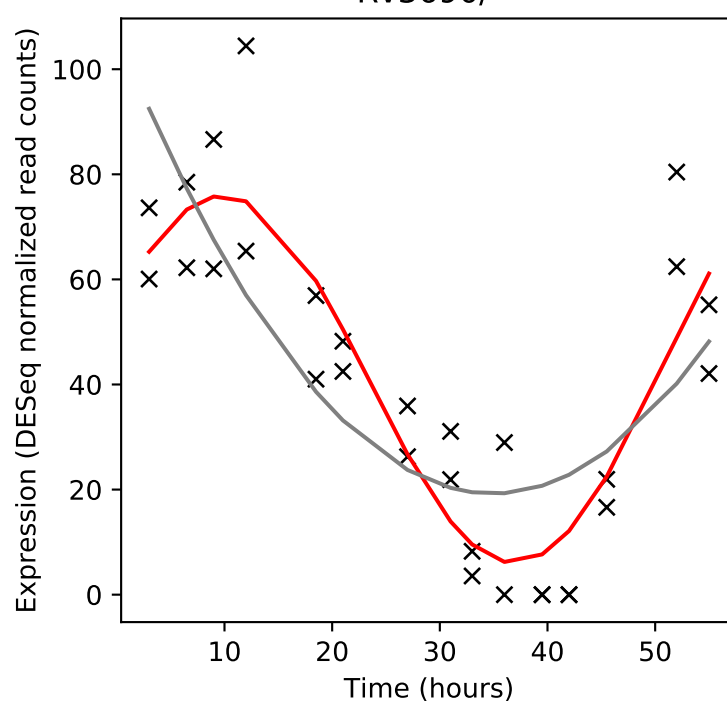
Rv3688c/-



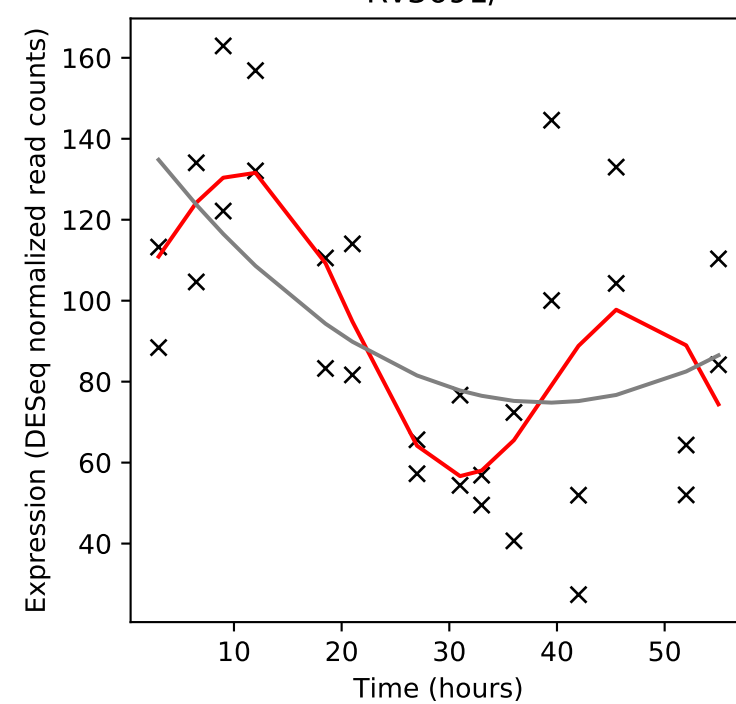
Rv3689/-



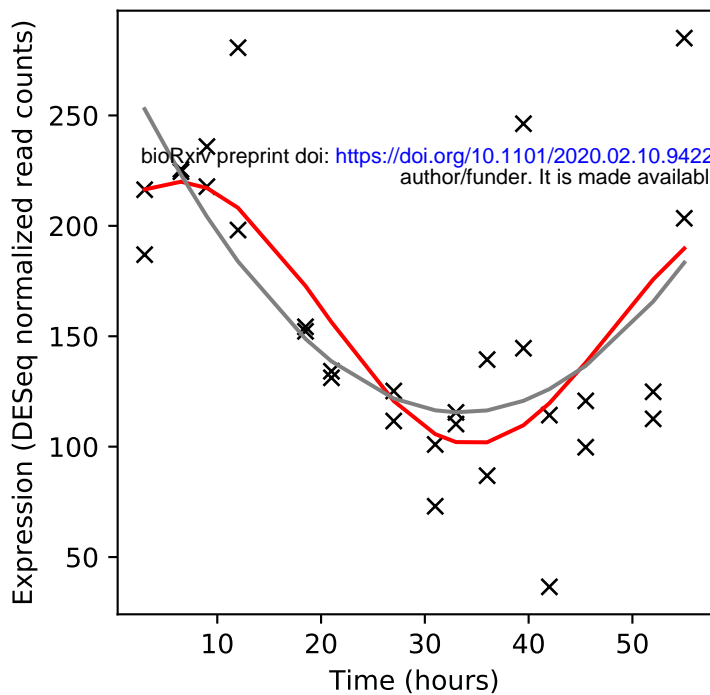
Rv3690/-



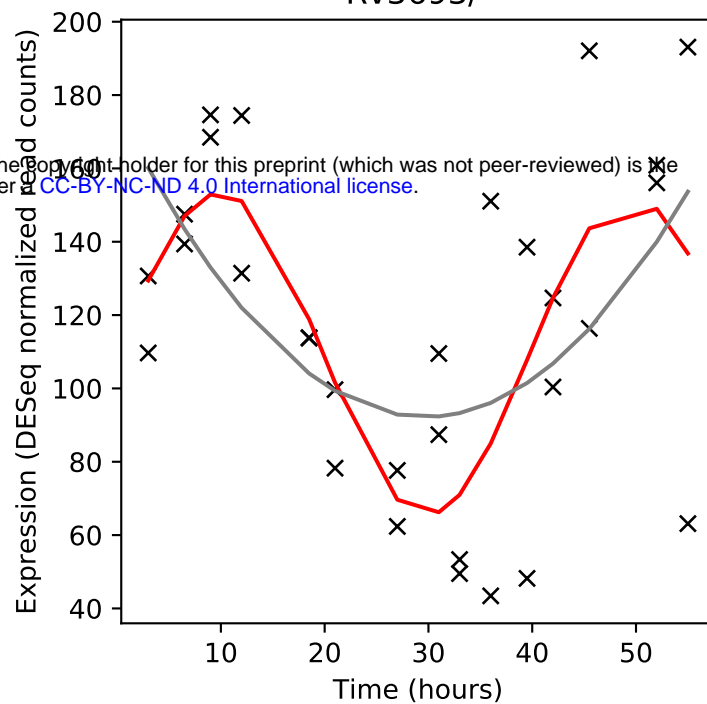
Rv3691/-



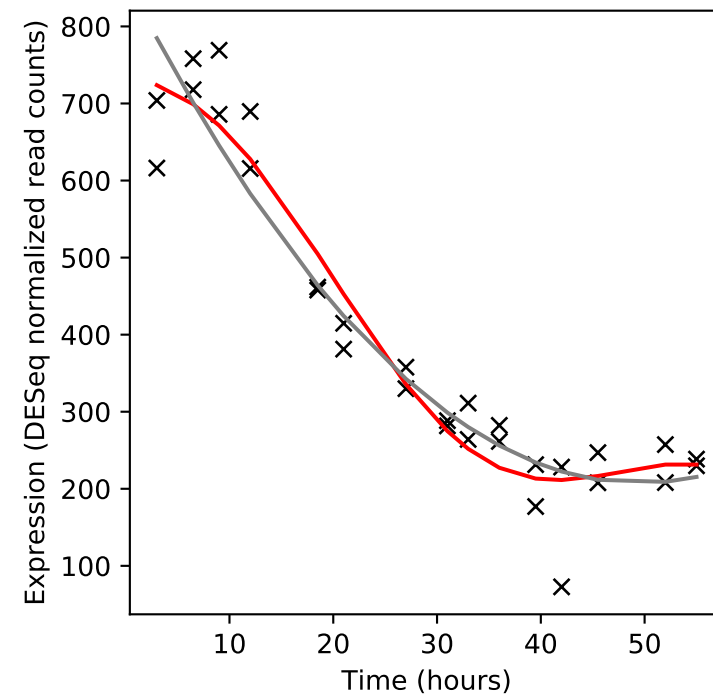
Rv3692/moxR2



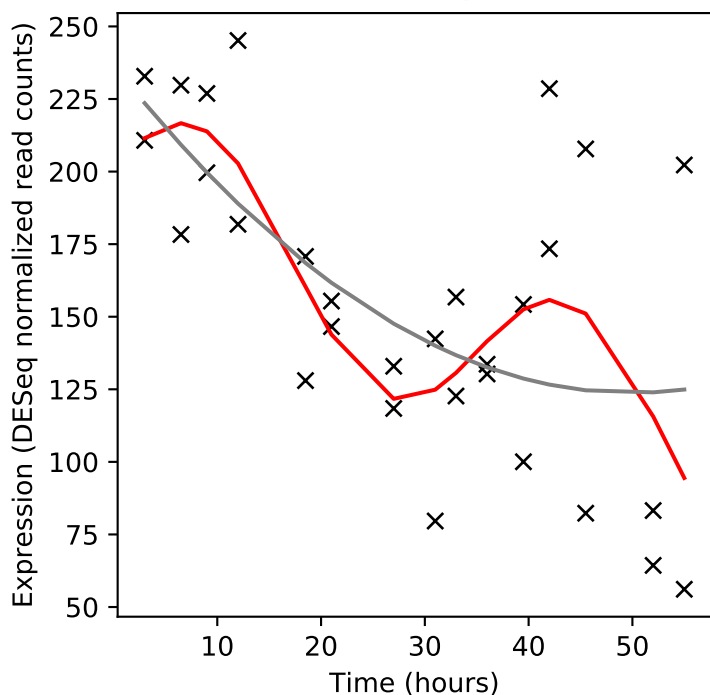
Rv3693/-



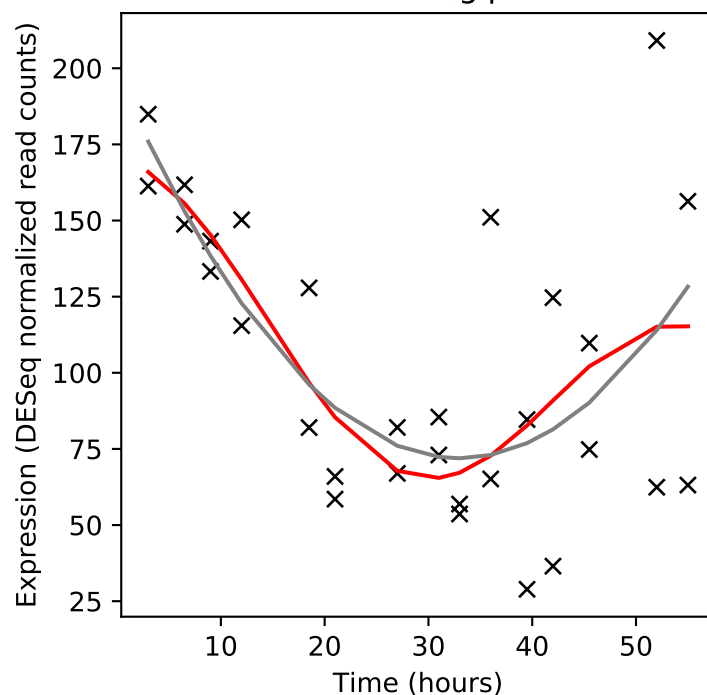
Rv3694c/-



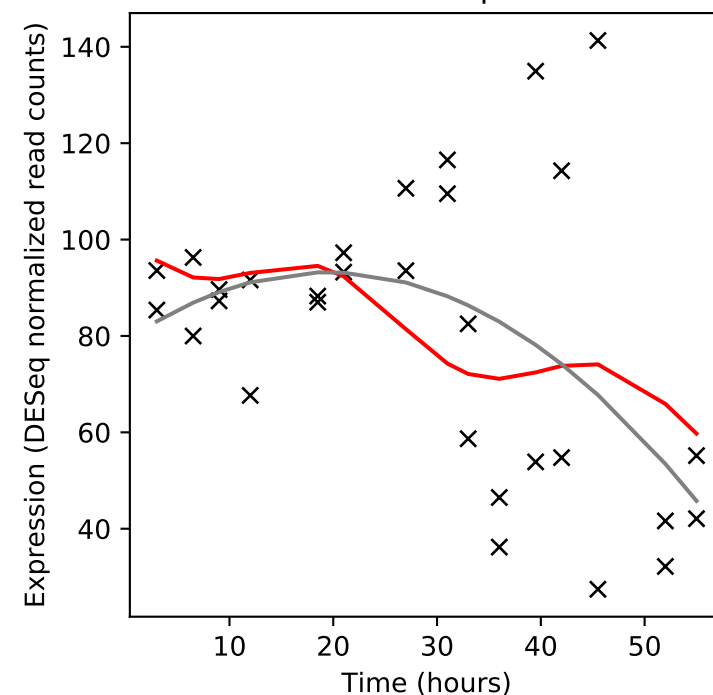
Rv3695/-



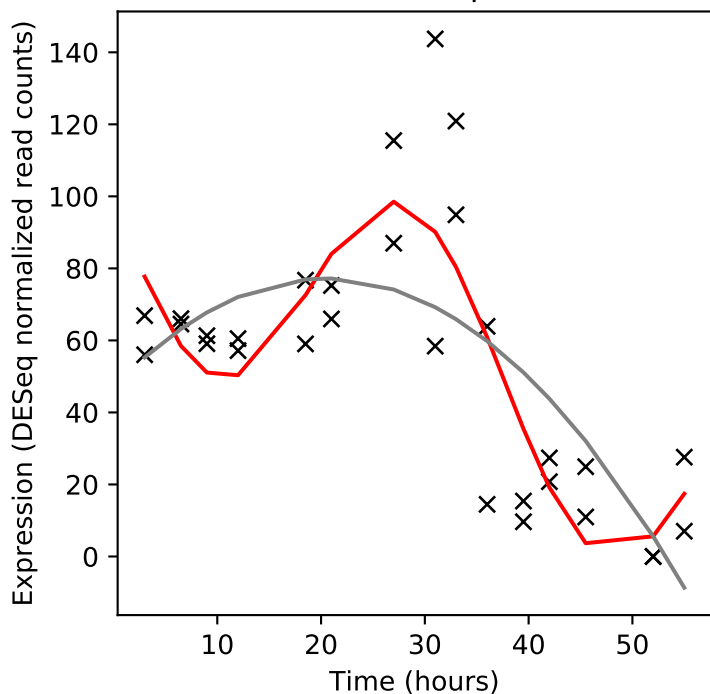
Rv3696c/glpK



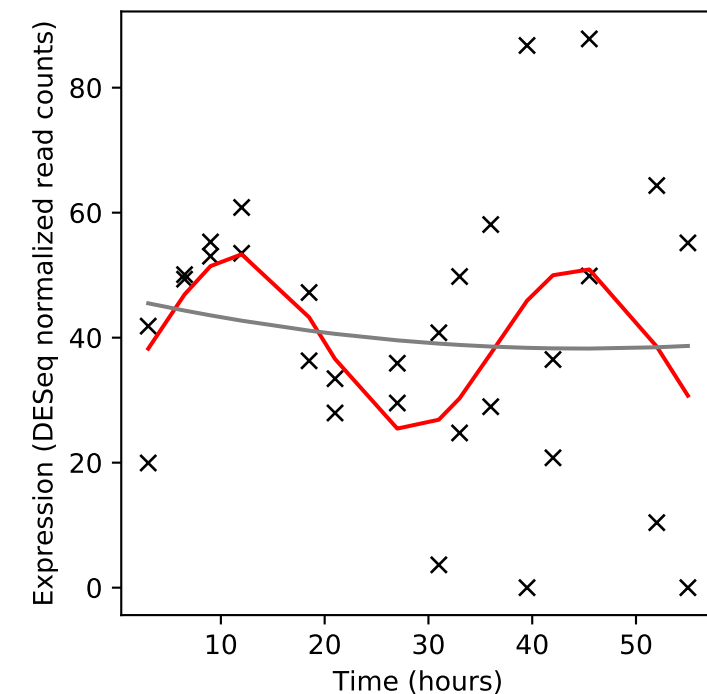
Rv3697c/vapC48



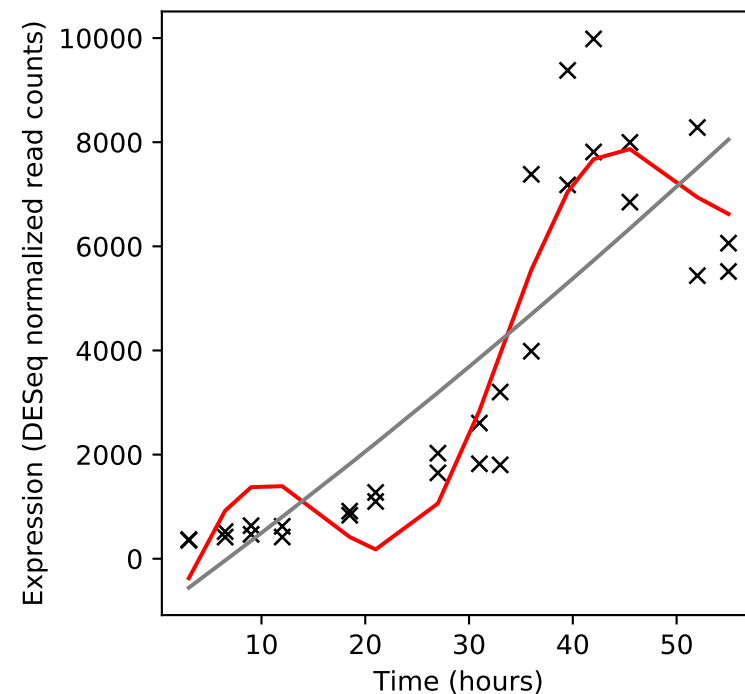
Rv3697A/vapB48



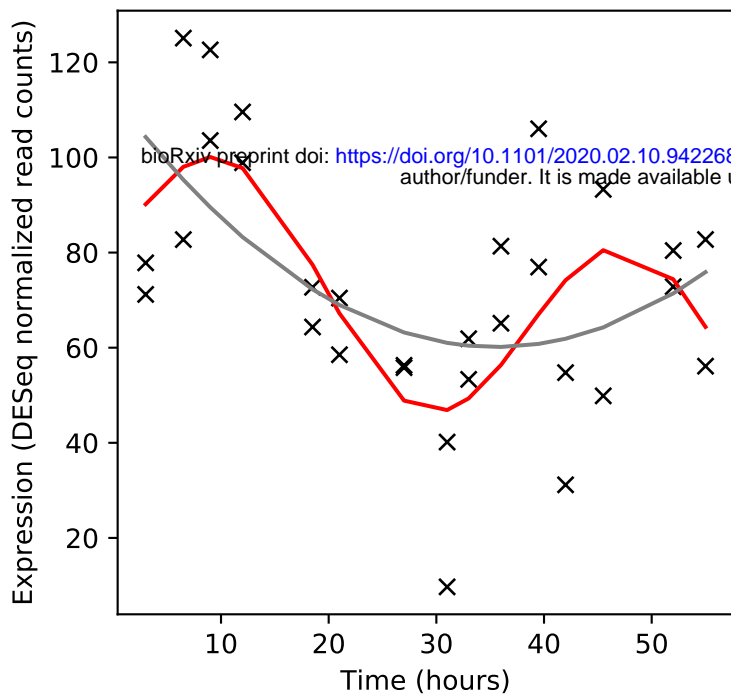
Rv3698/-



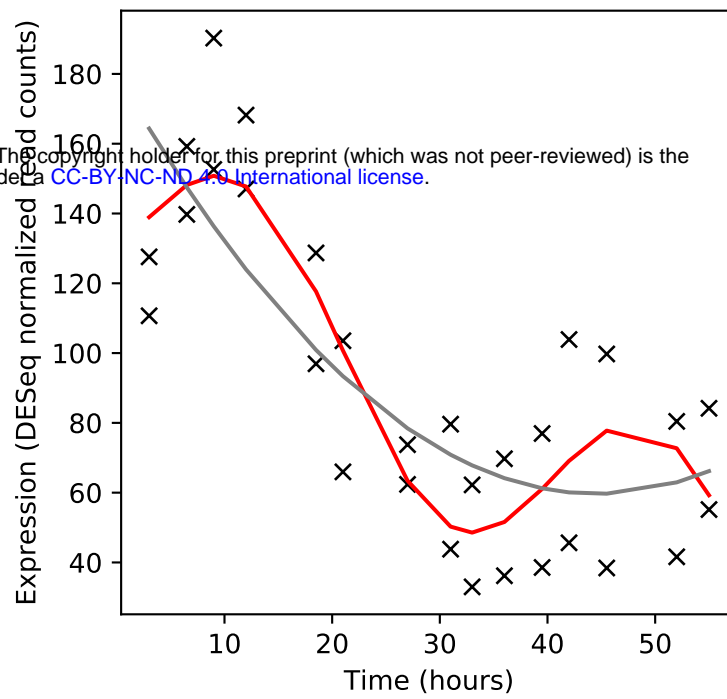
Rv3699/-



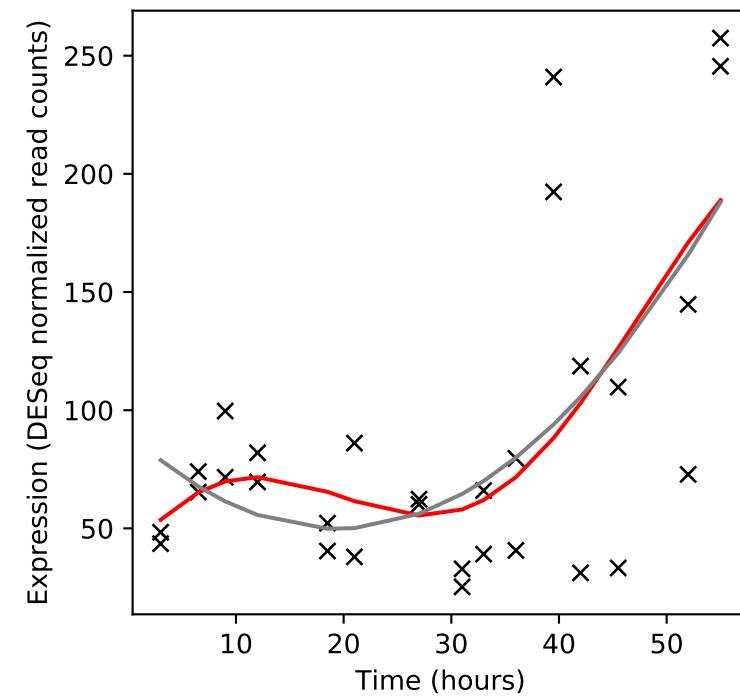
Rv3700c/-



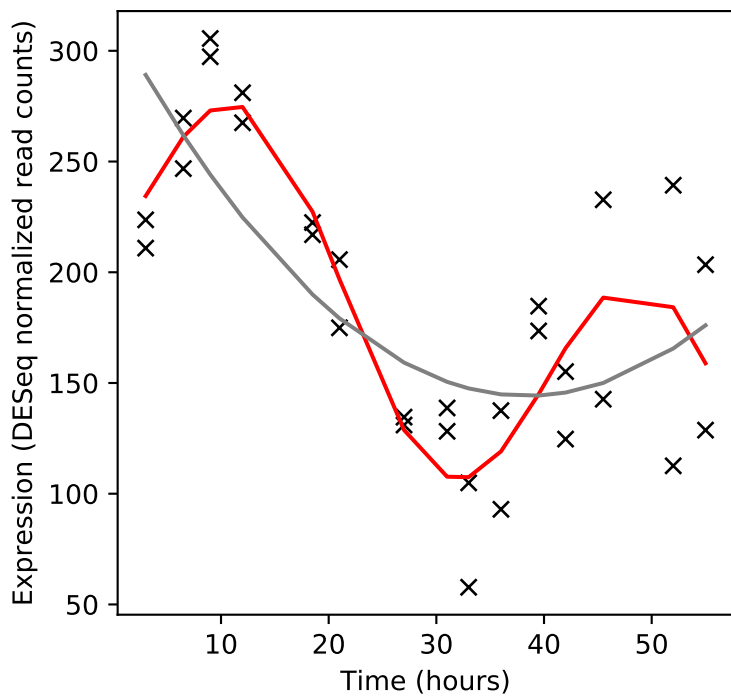
Rv3701c/-



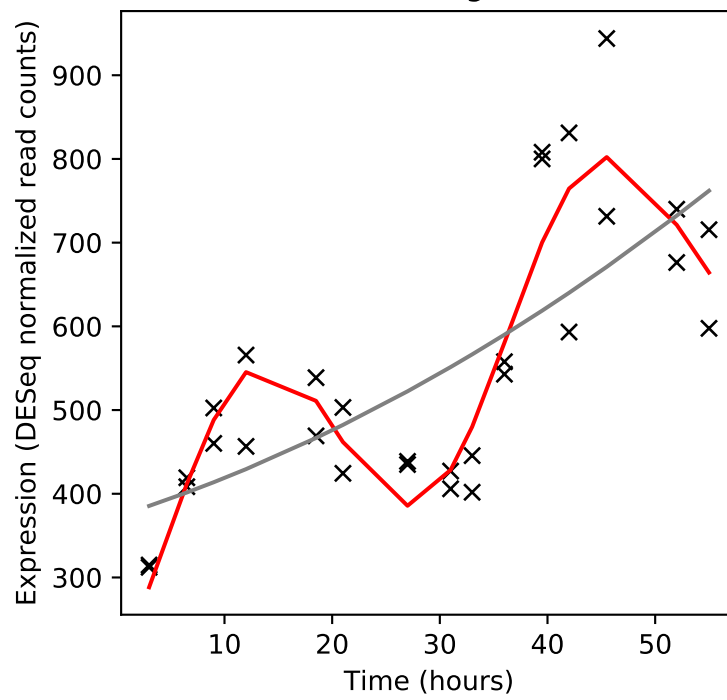
Rv3702c/-



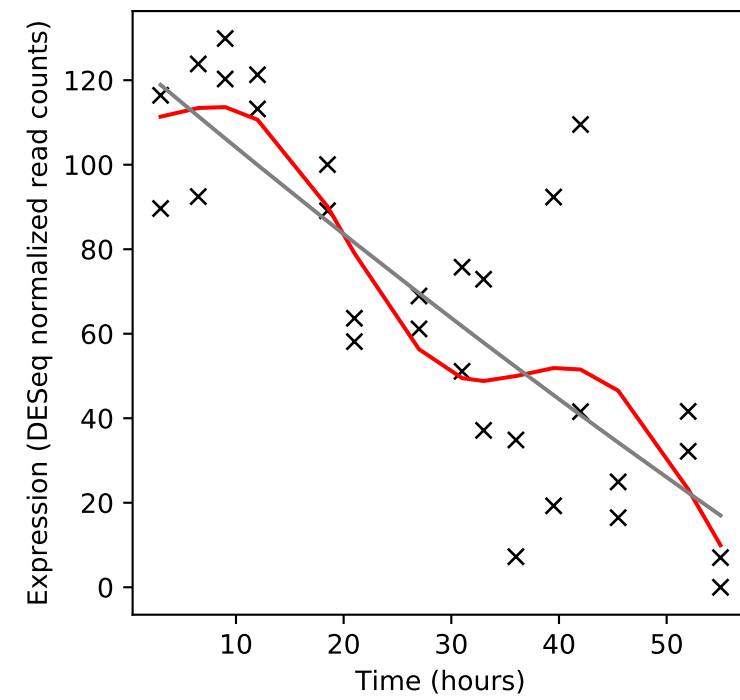
Rv3703c/-



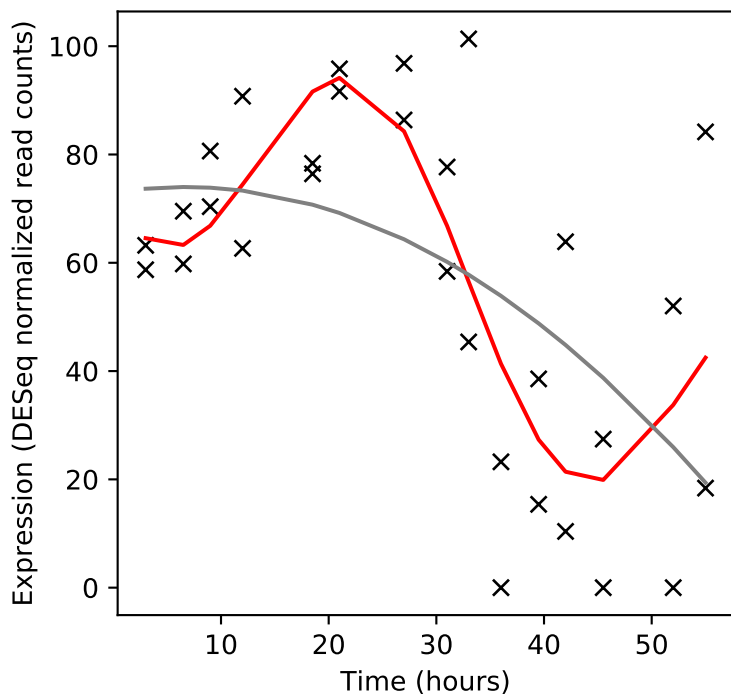
Rv3704c/gshA



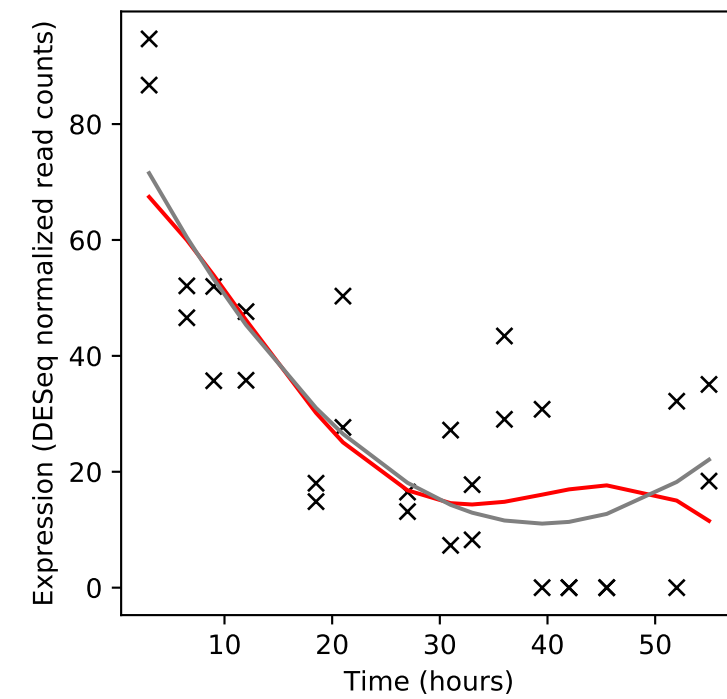
Rv3705c/-



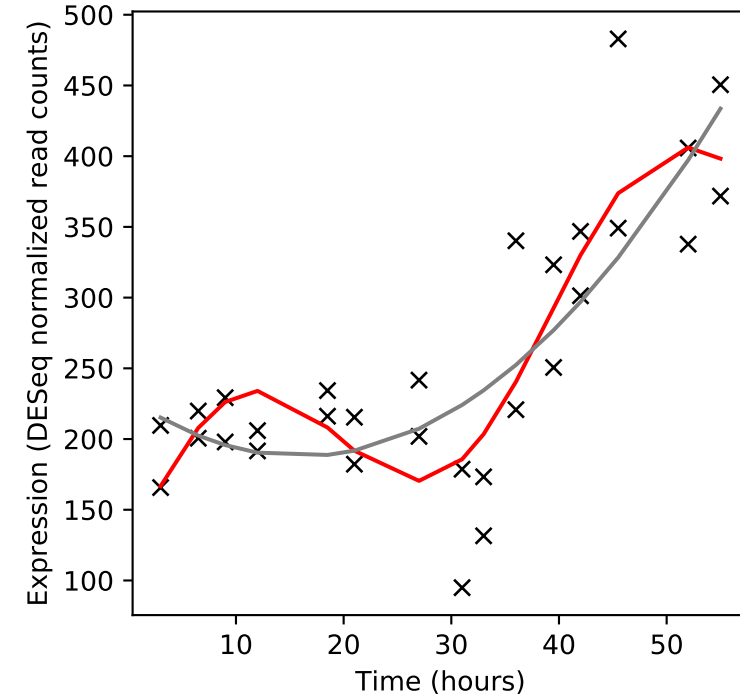
Rv3705A/-



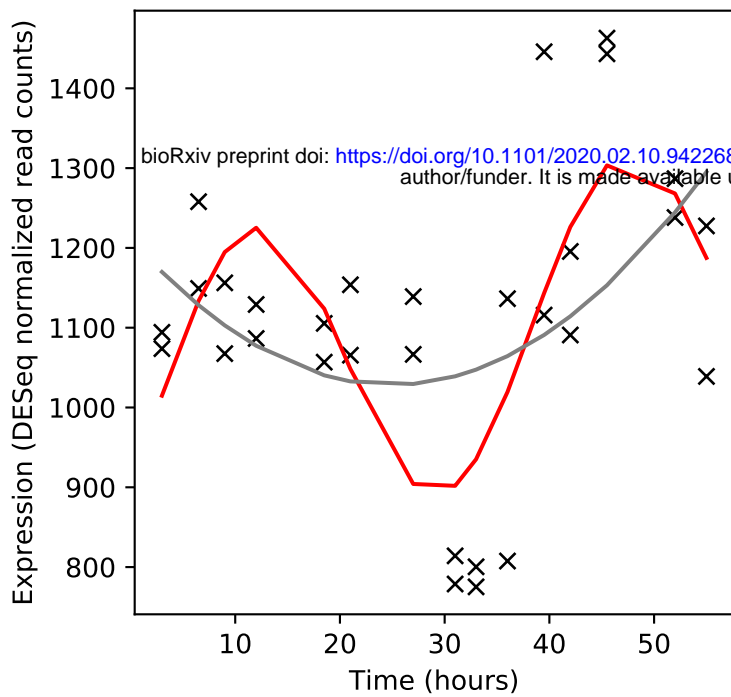
Rv3706c/-



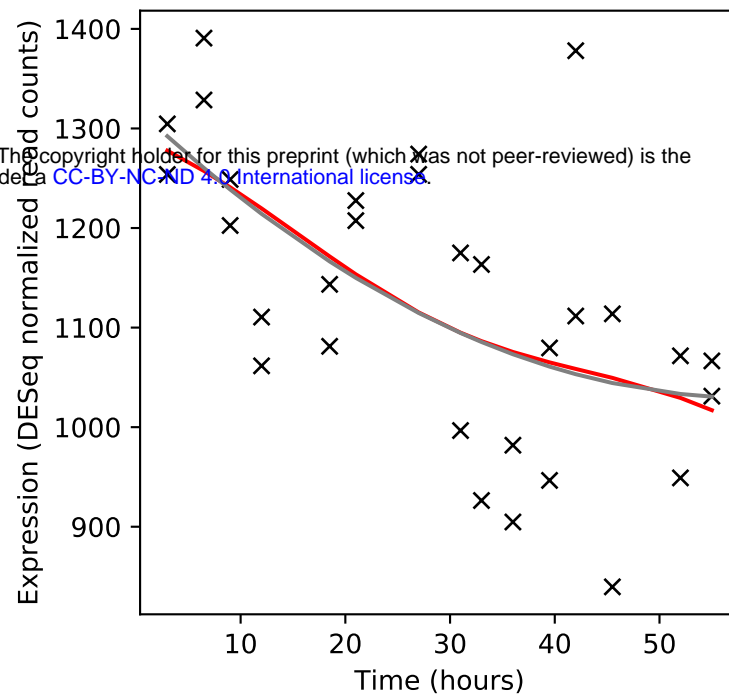
Rv3707c/-



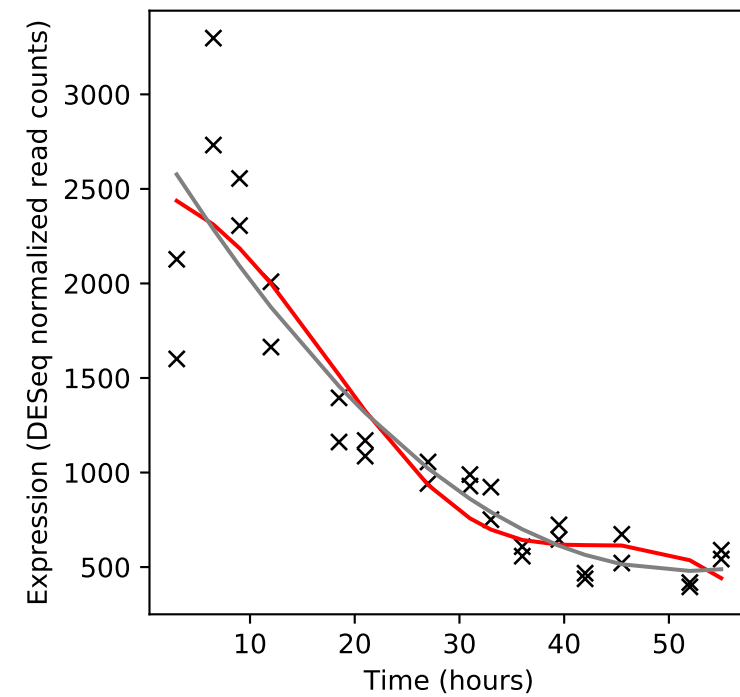
Rv3708c/asd



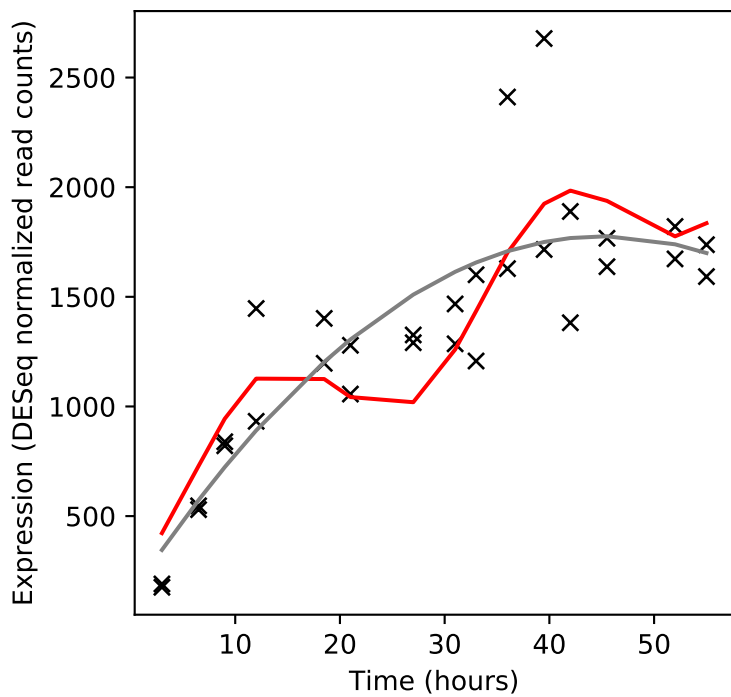
Rv3709c/ask



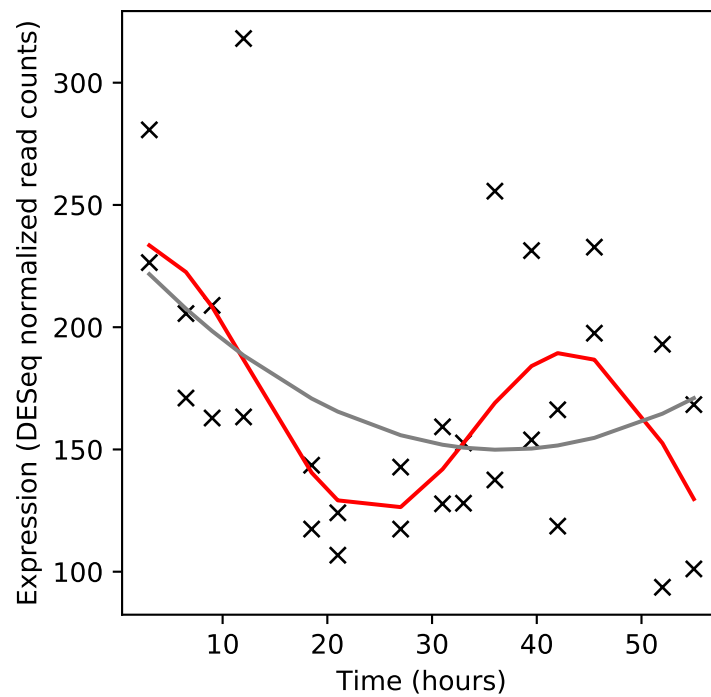
Rv3710/leuA



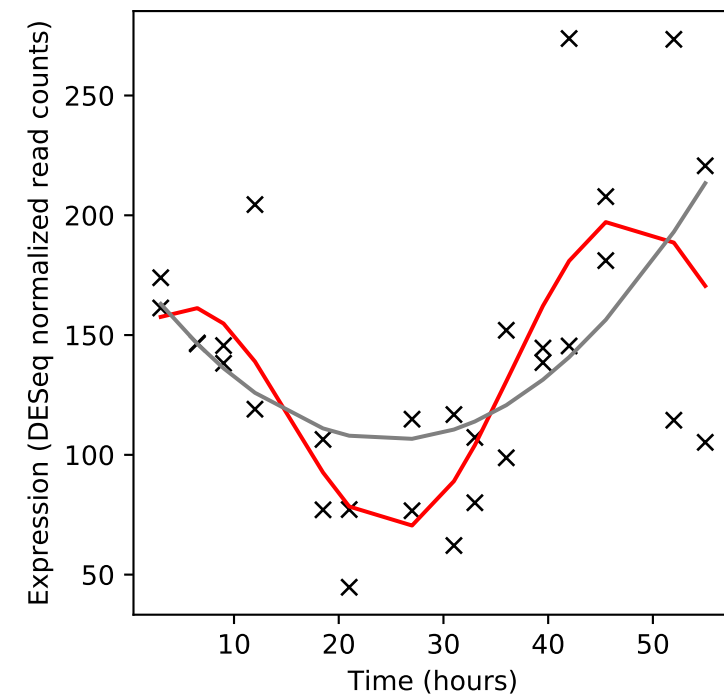
Rv3711c/dnaQ



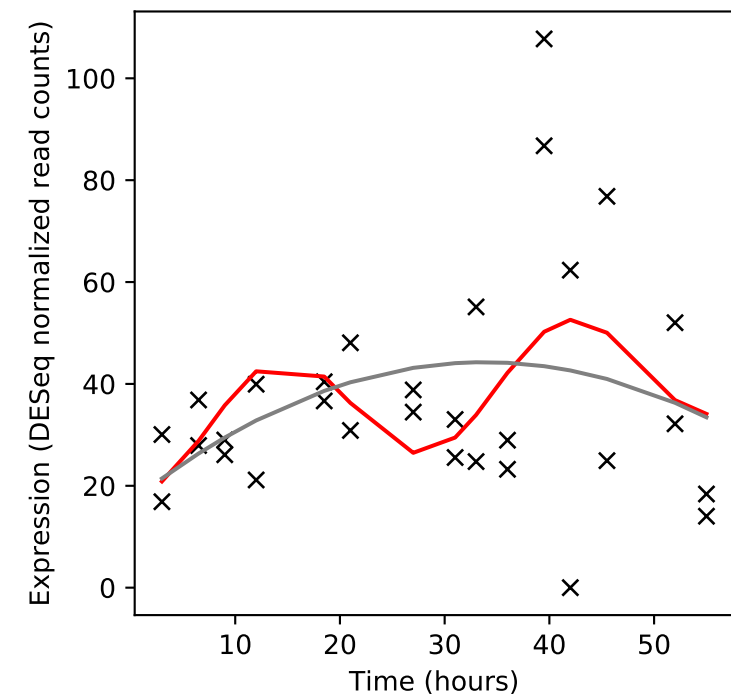
Rv3712/-



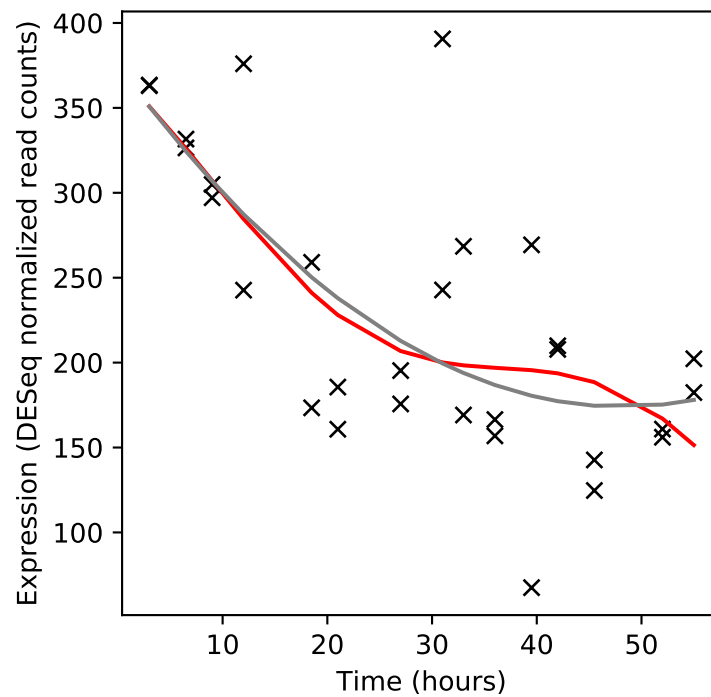
Rv3713/cobQ2



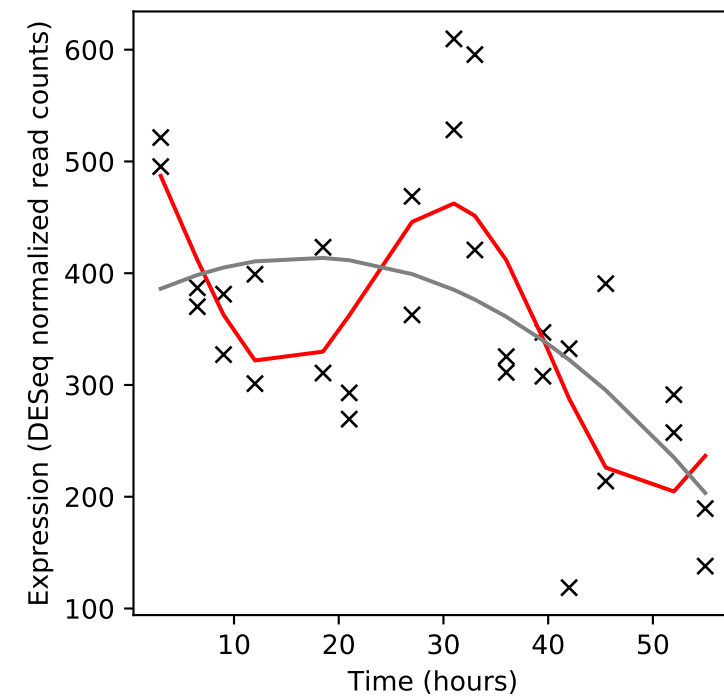
Rv3714c/-



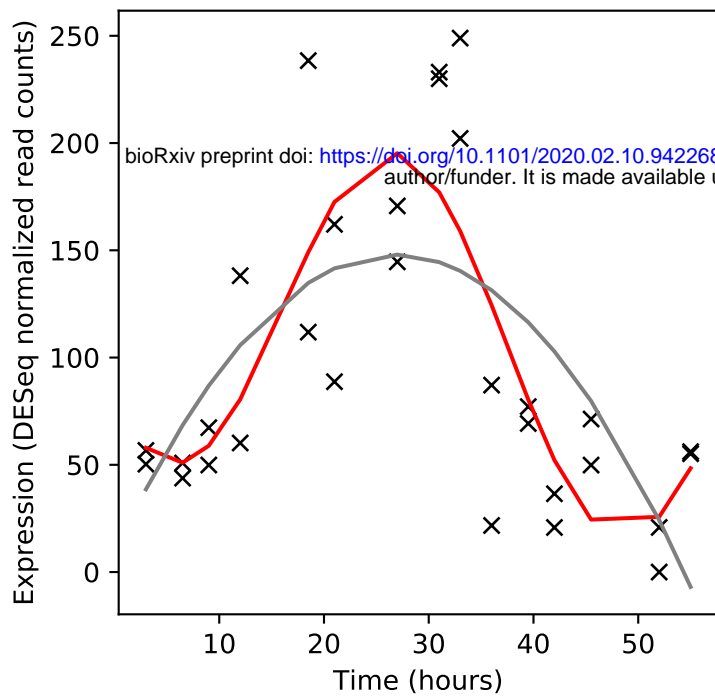
Rv3715c/recR



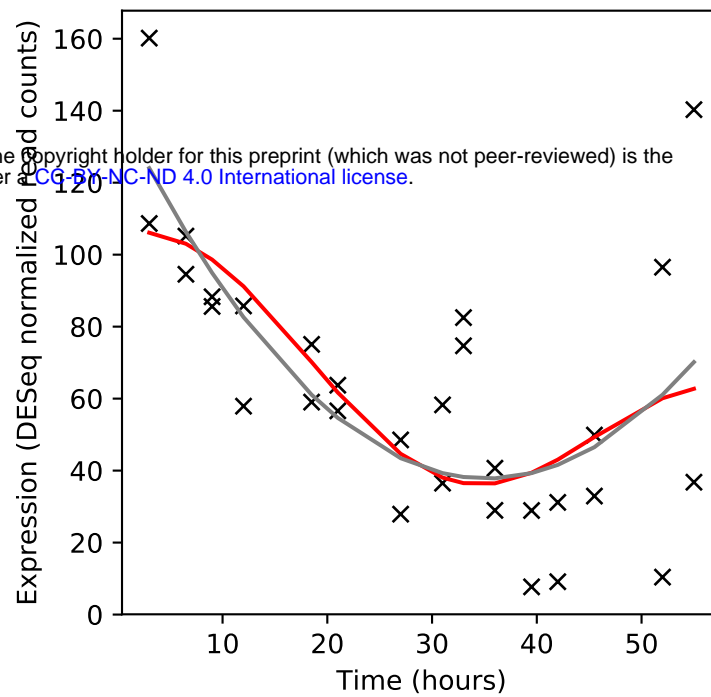
Rv3716c/-



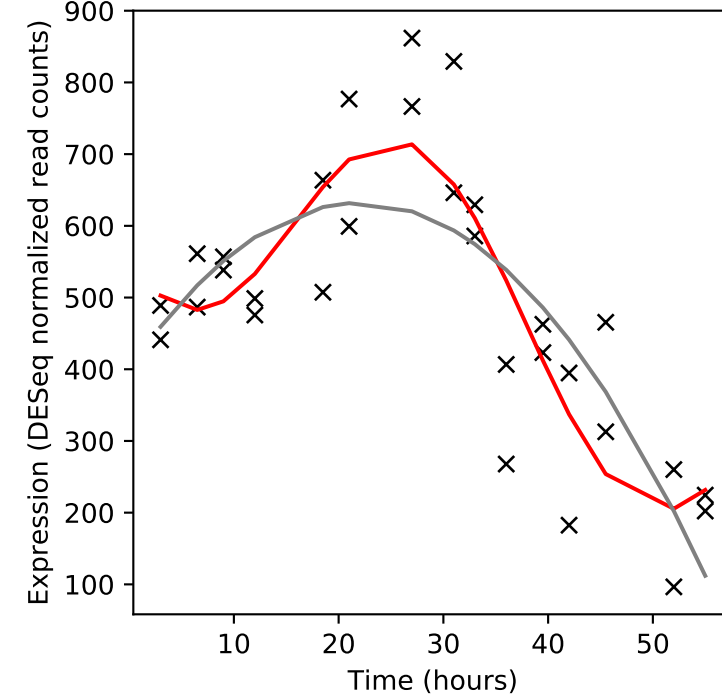
Rv3717/-



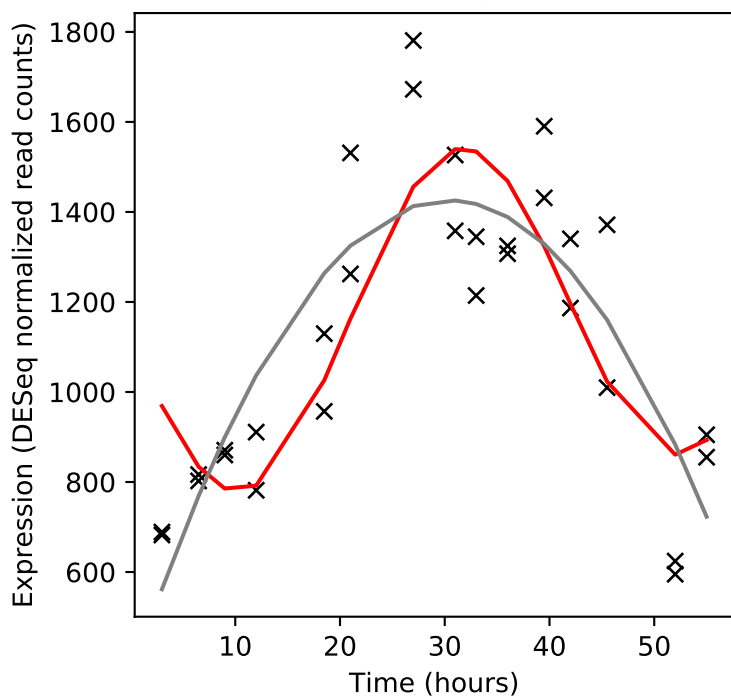
Rv3718c/-



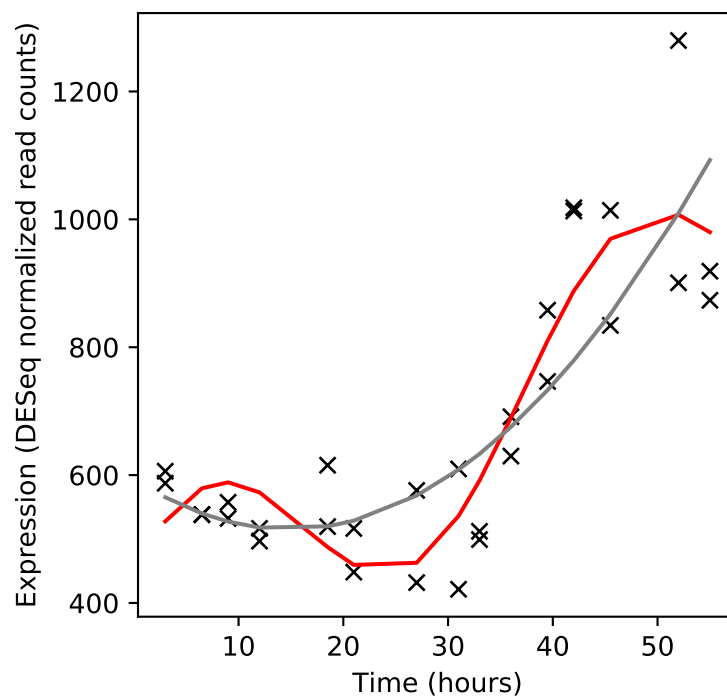
Rv3719/-



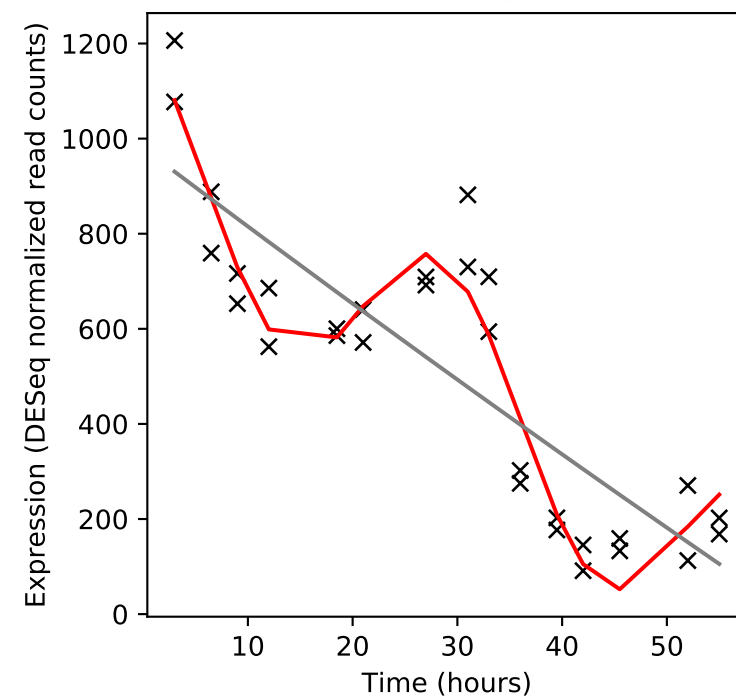
Rv3720/-



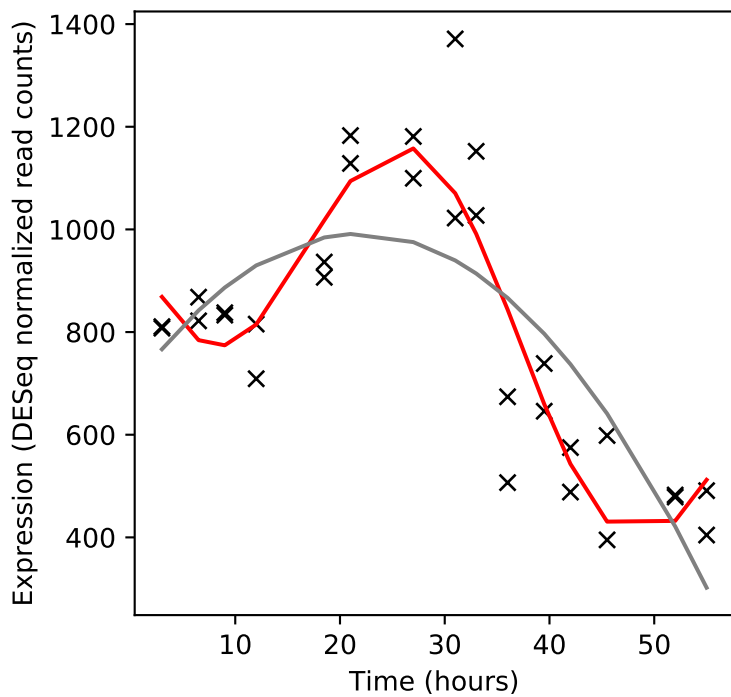
Rv3721c/dnaZX



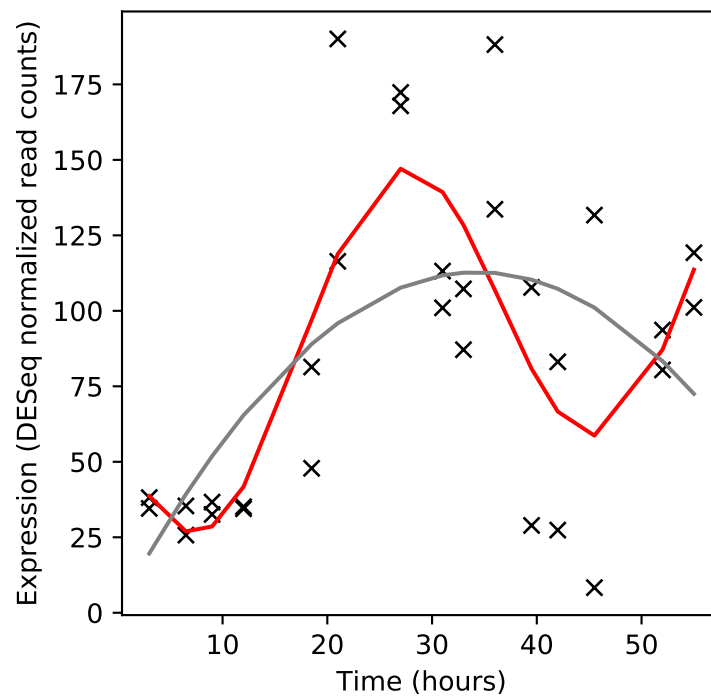
Rv3722c/-



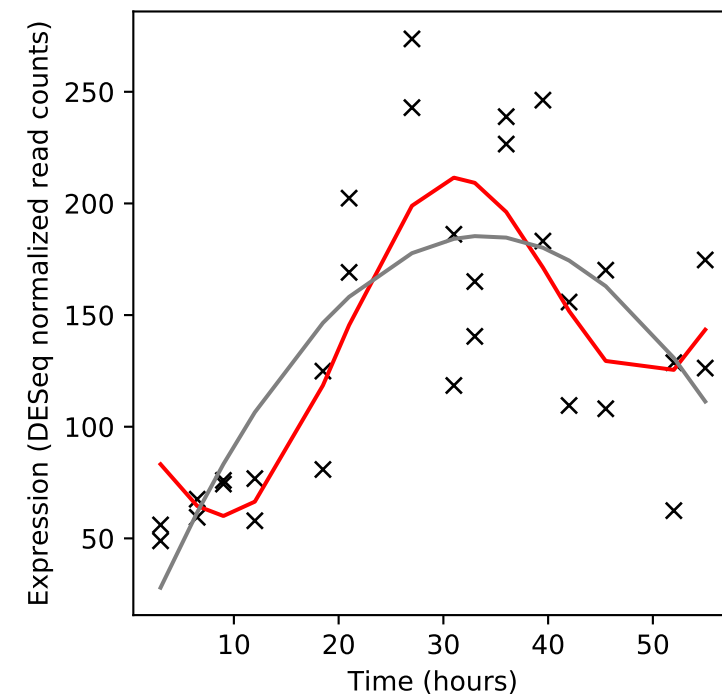
Rv3723/-



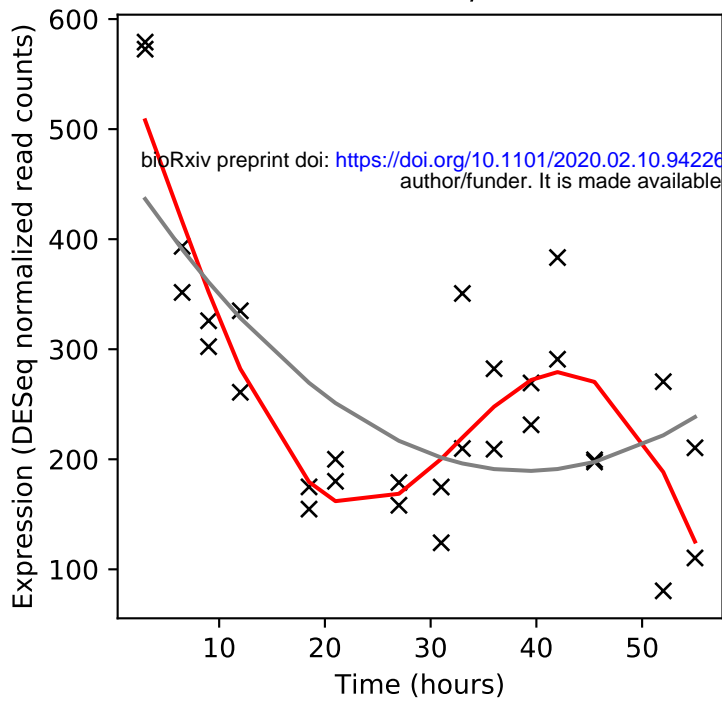
Rv3724A/cut5a



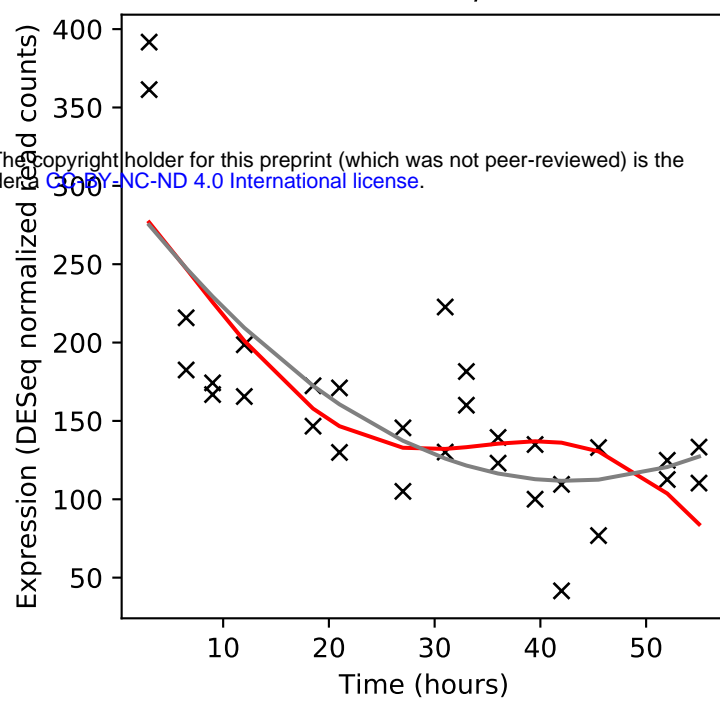
Rv3724B/cut5b



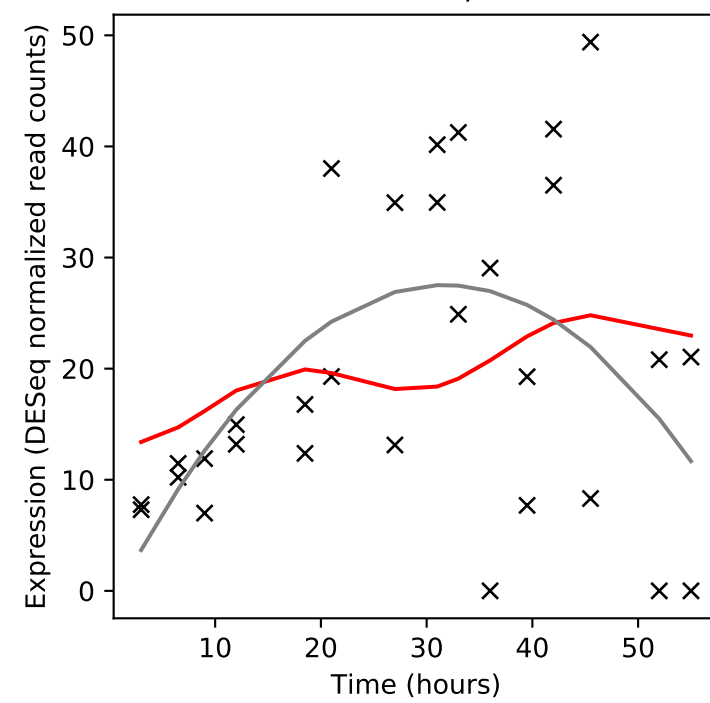
Rv3725/-



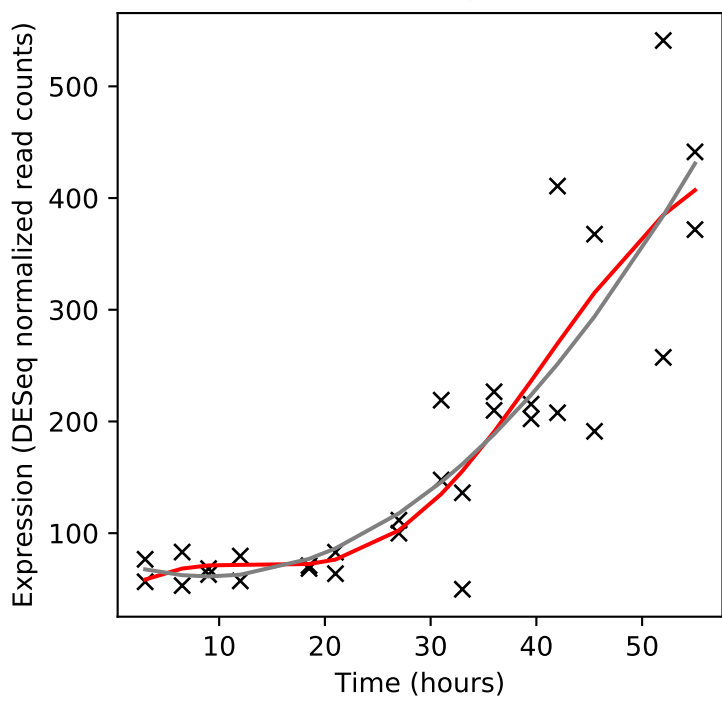
Rv3726/-



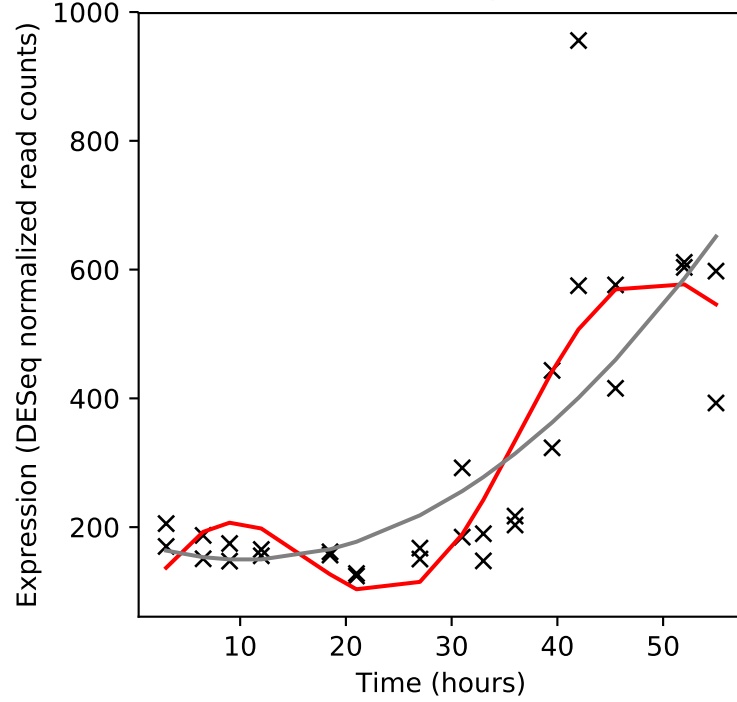
Rv3727/-



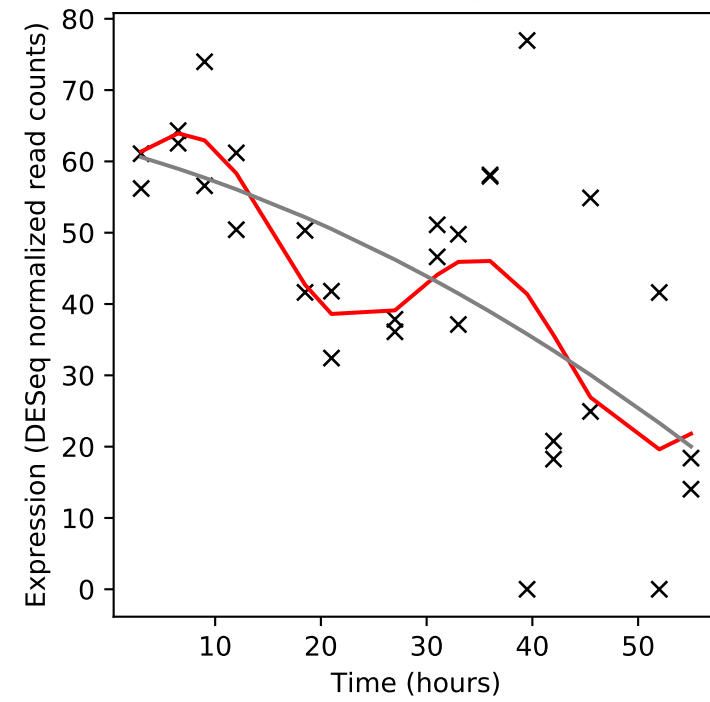
Rv3728/-



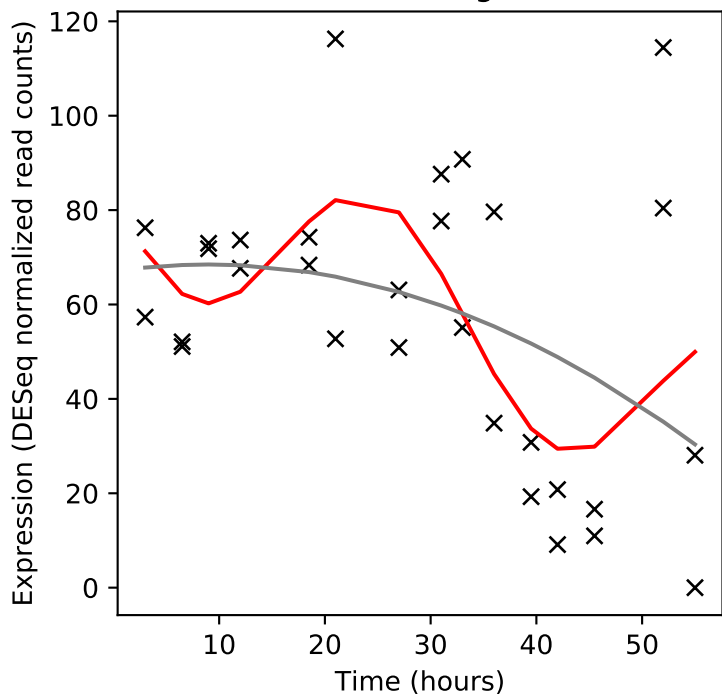
Rv3729/-



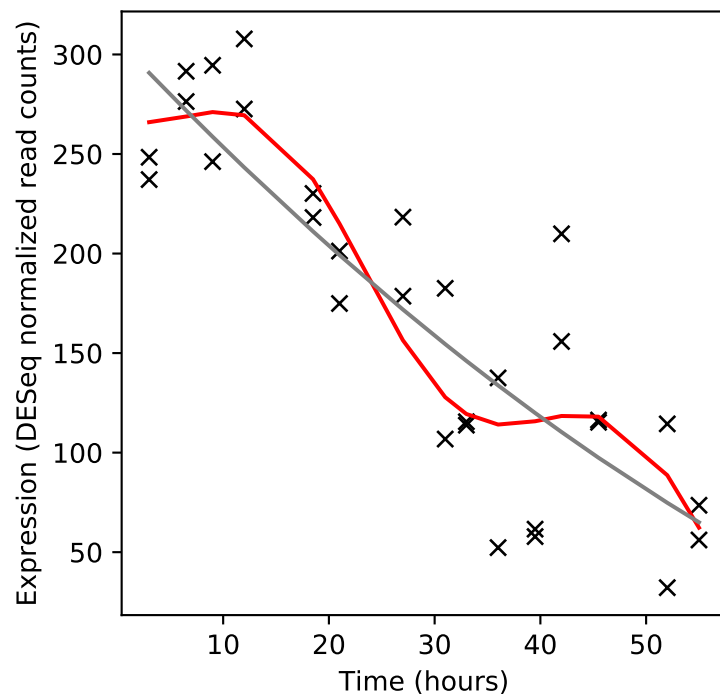
Rv3730c/-



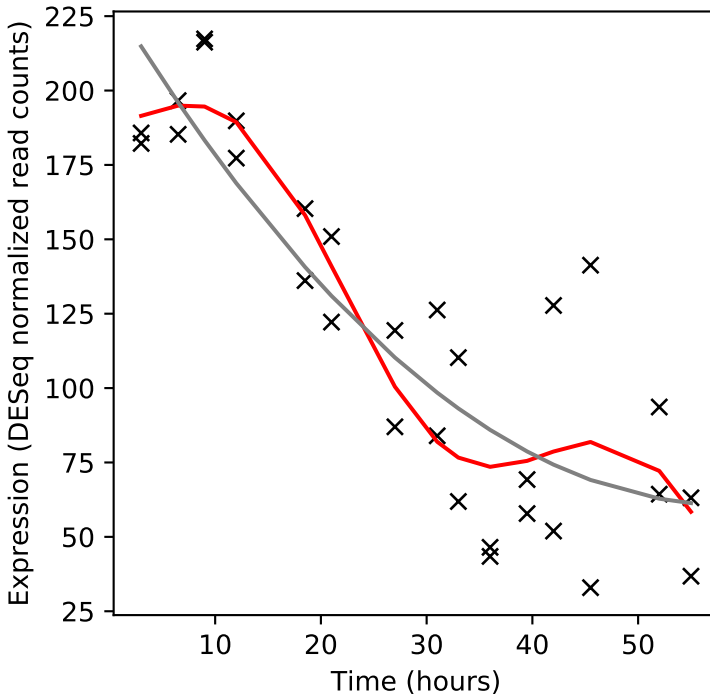
Rv3731/ligC



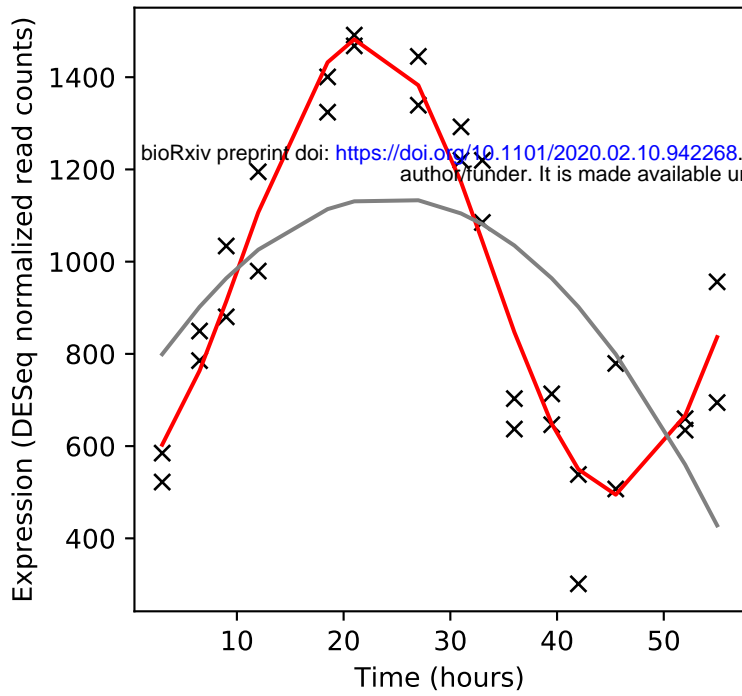
Rv3732/-



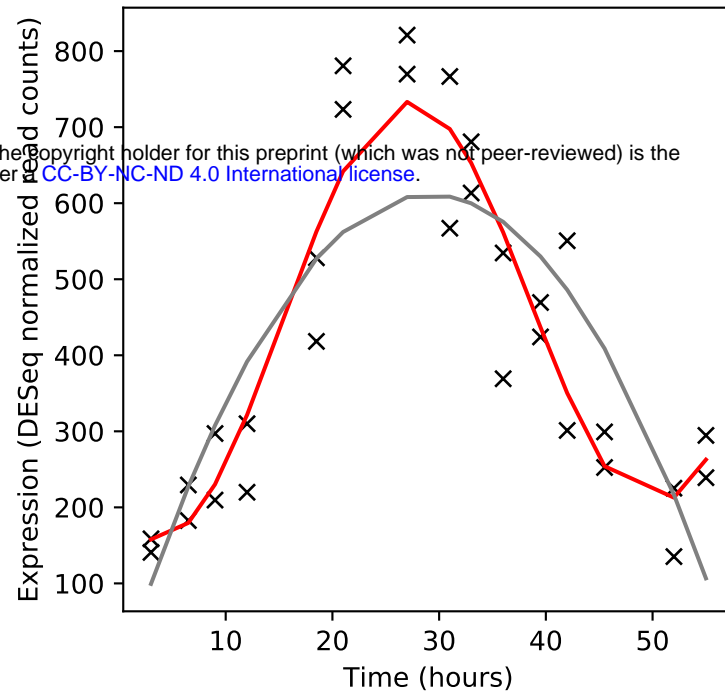
Rv3733c/-



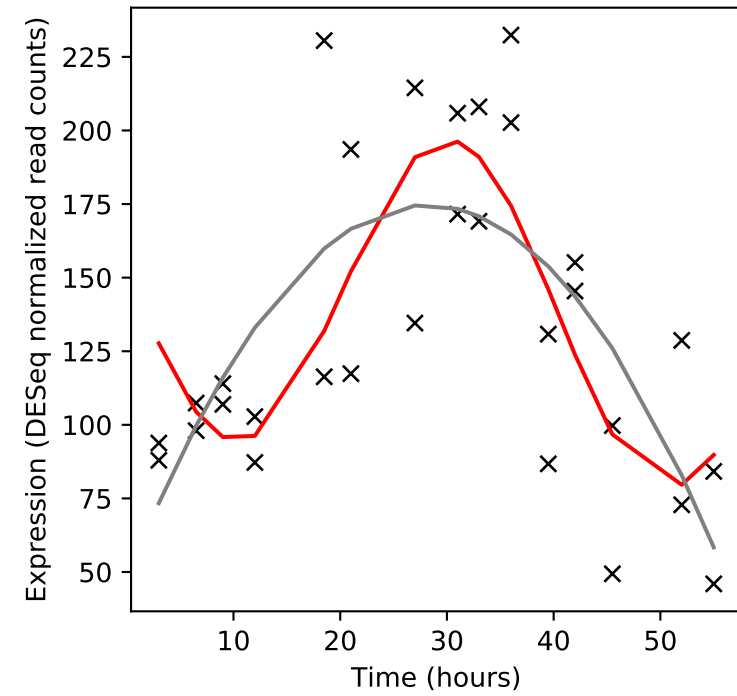
Rv3734c/tgs2



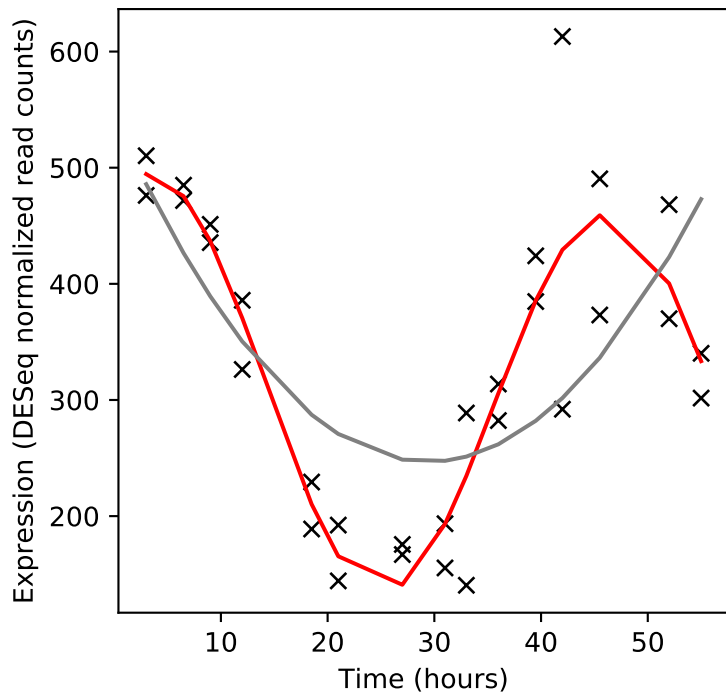
Rv3735/-



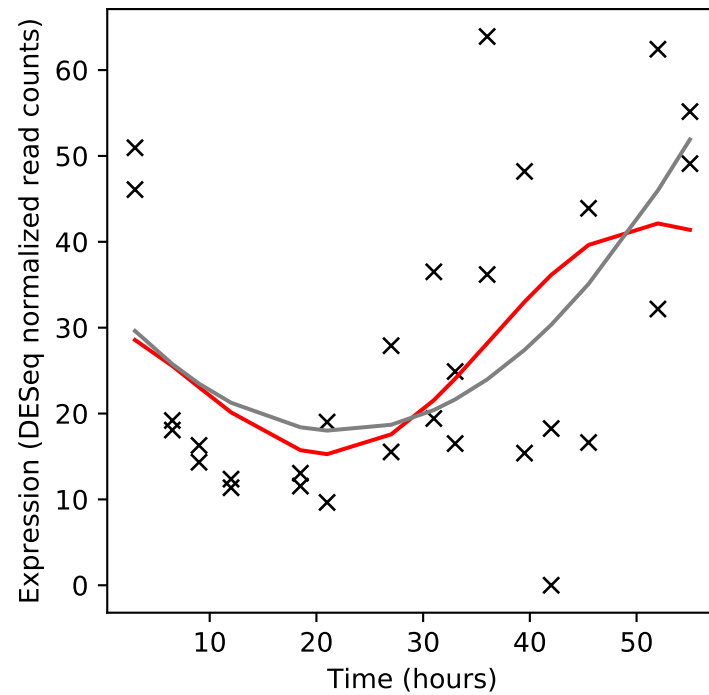
Rv3736/-



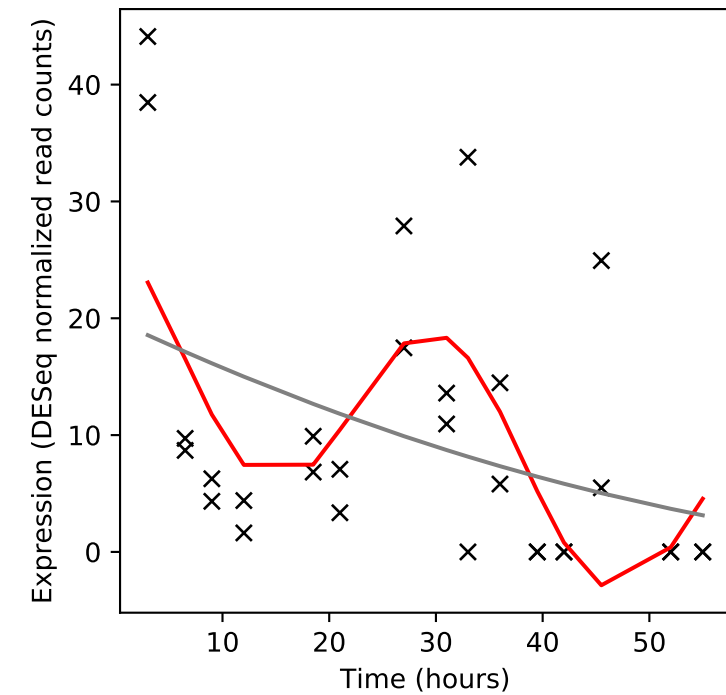
Rv3737/-



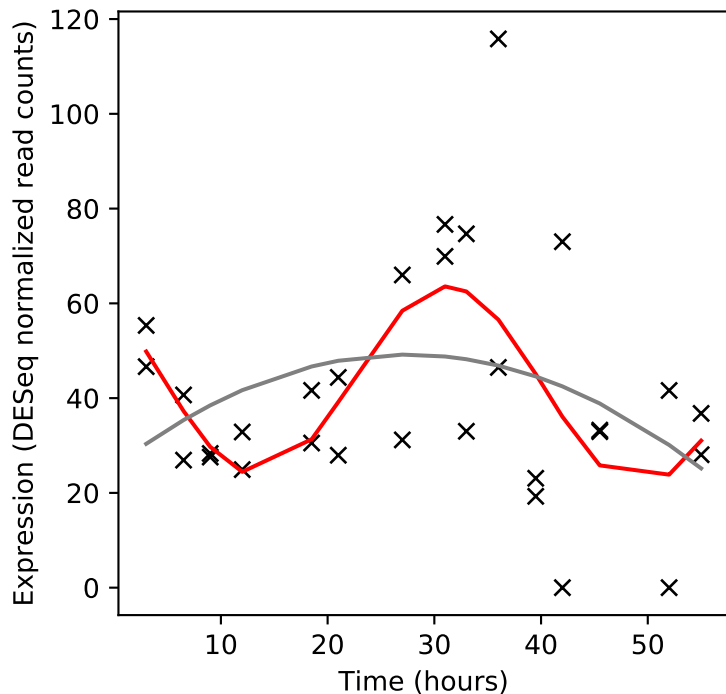
Rv3738c/PPE66



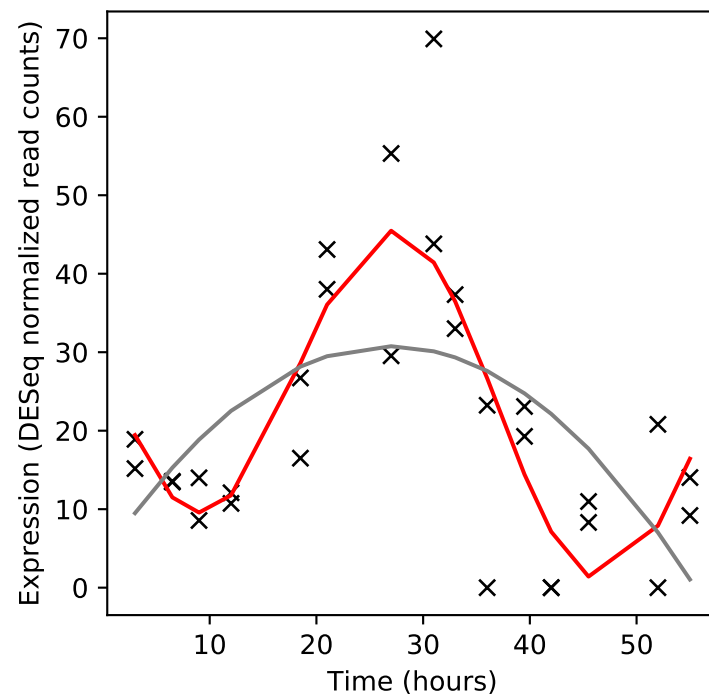
Rv3739c/PPE67



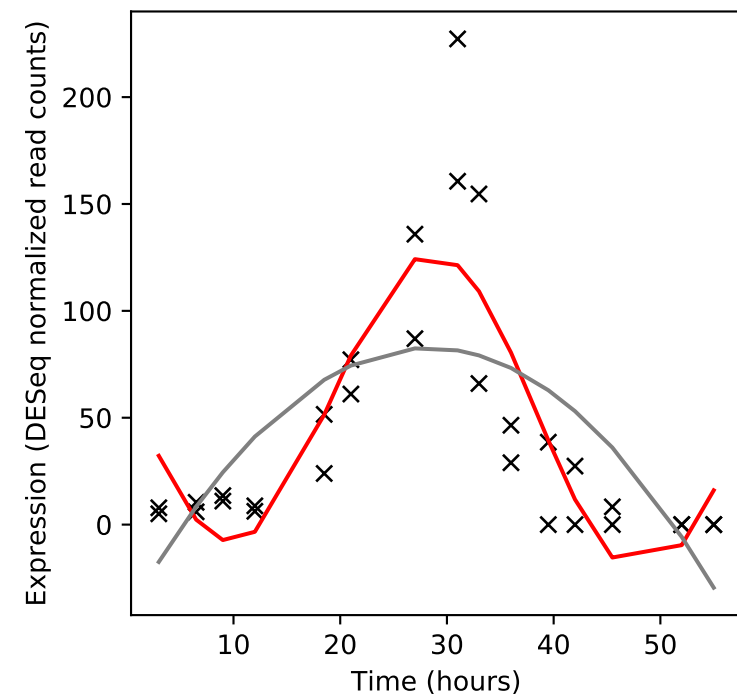
Rv3740c/-



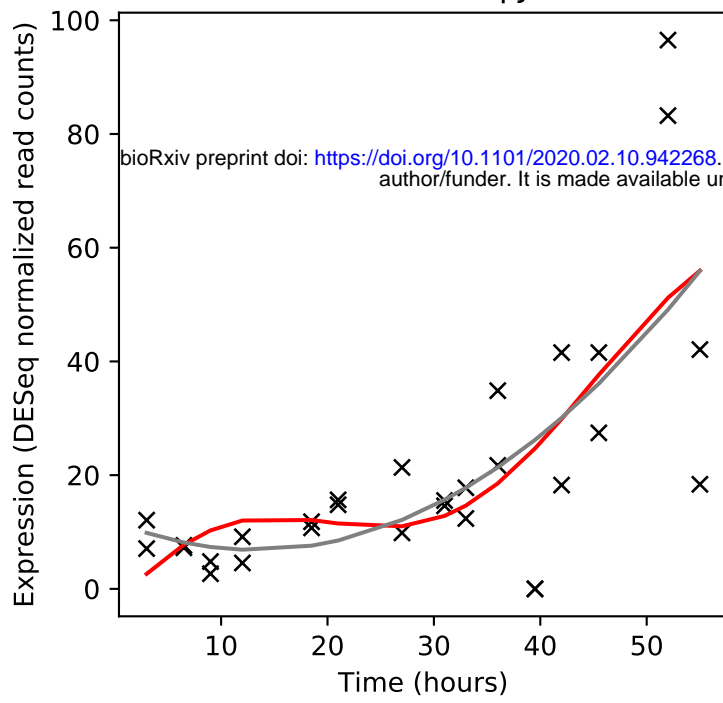
Rv3741c/-



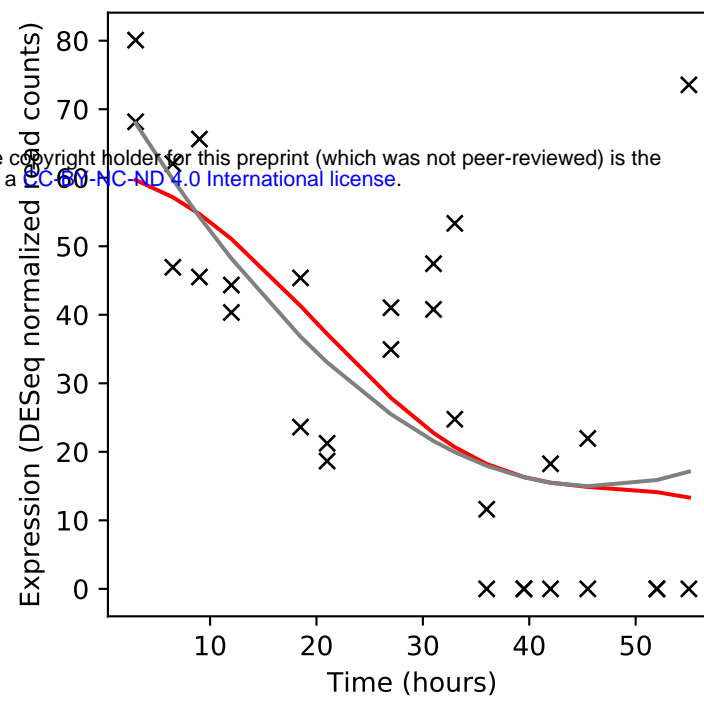
Rv3742c/-



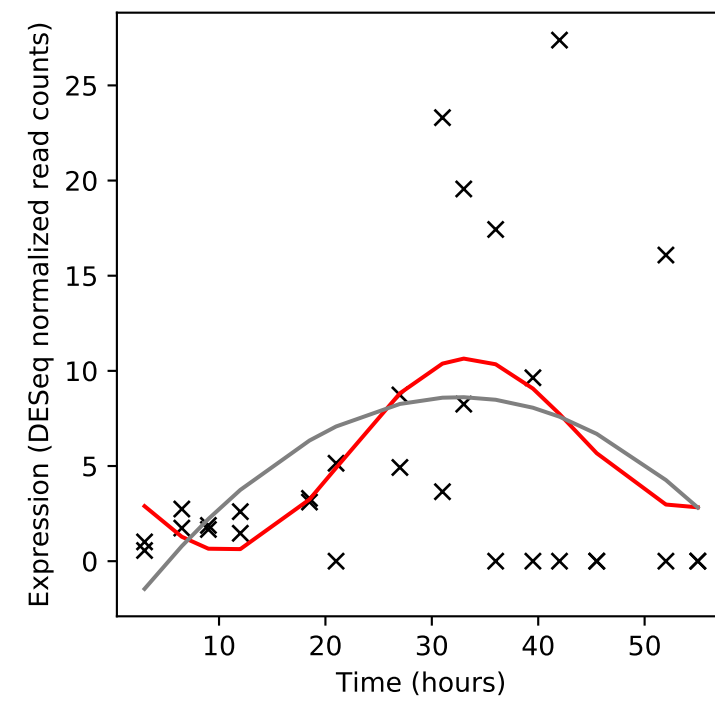
Rv3743c/ctpj



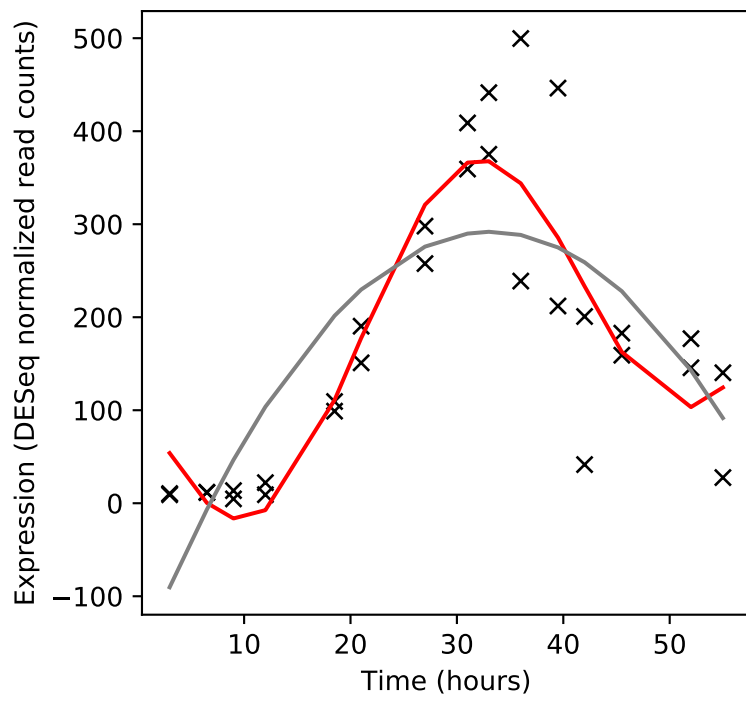
Rv3744/nmtR



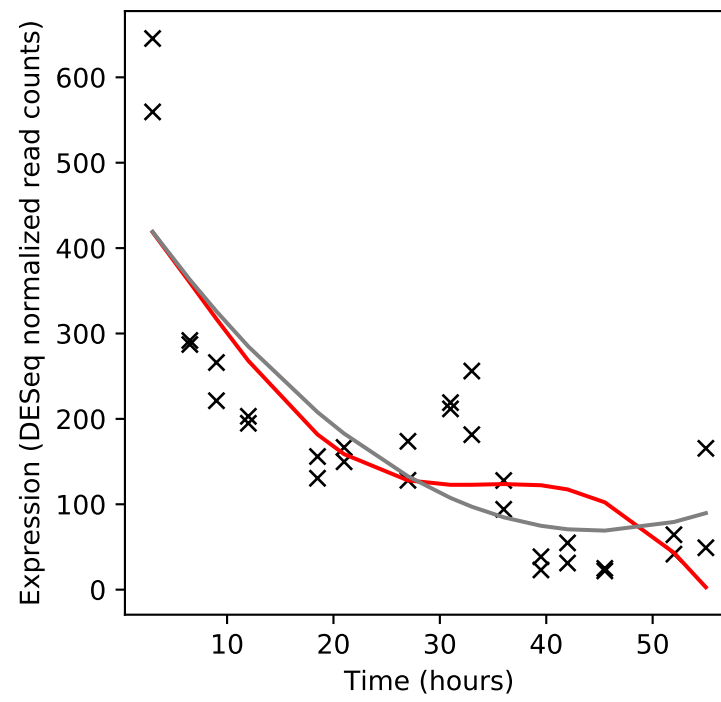
Rv3745c/-



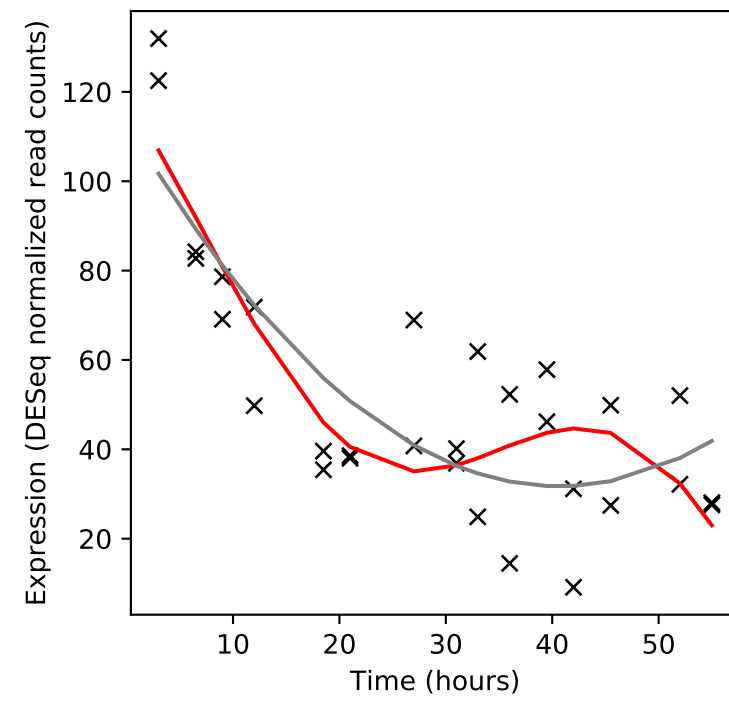
Rv3746c/PE34



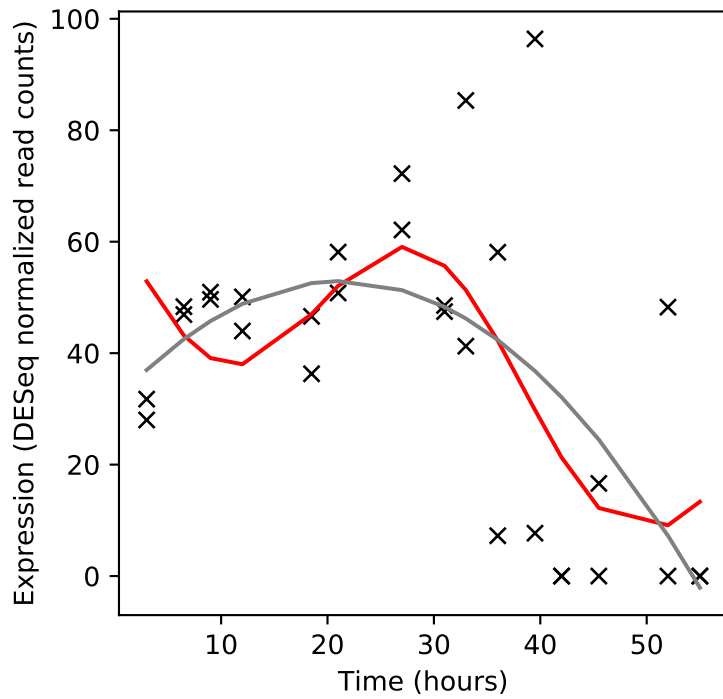
Rv3747/-



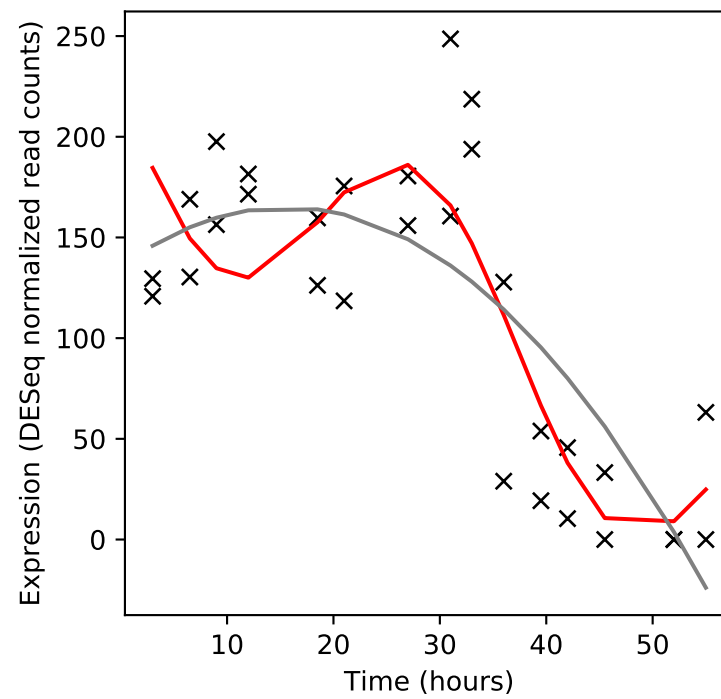
Rv3748/-



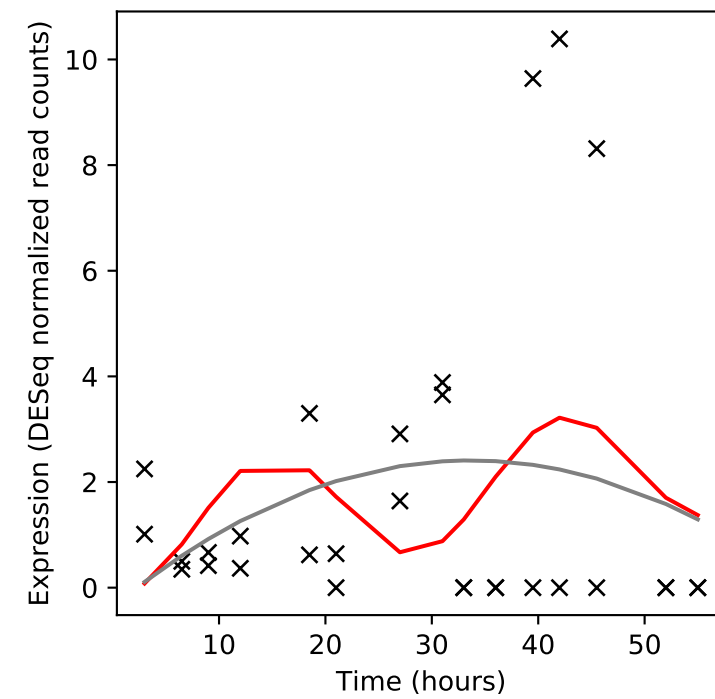
Rv3749c/-



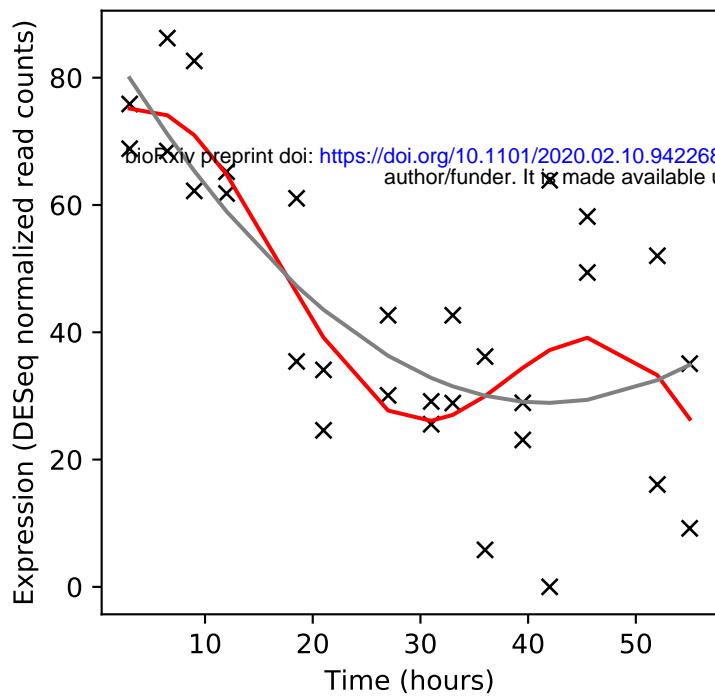
Rv3750c/-



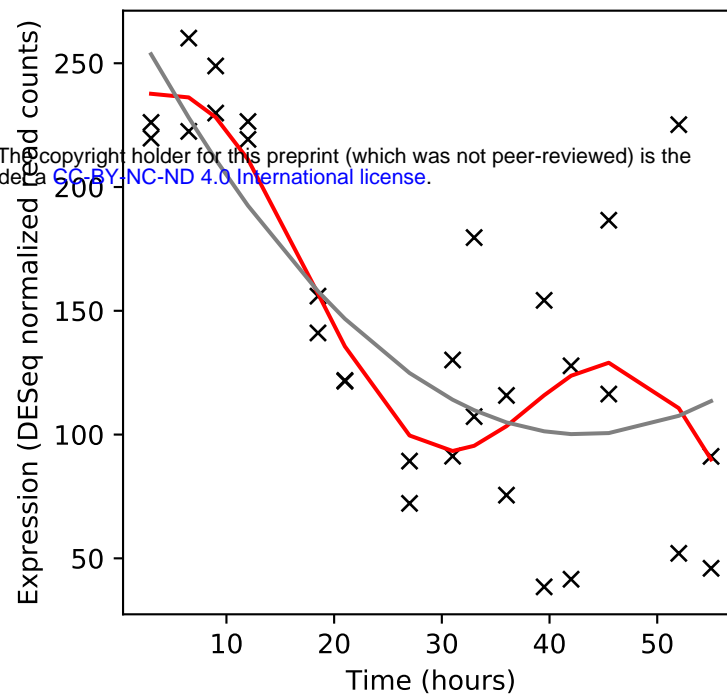
Rv3751/-



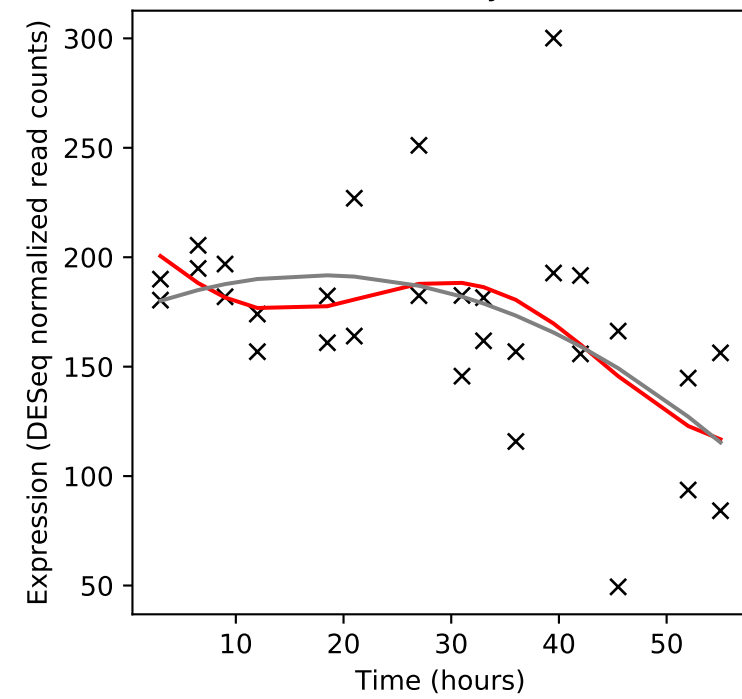
Rv3752c/-



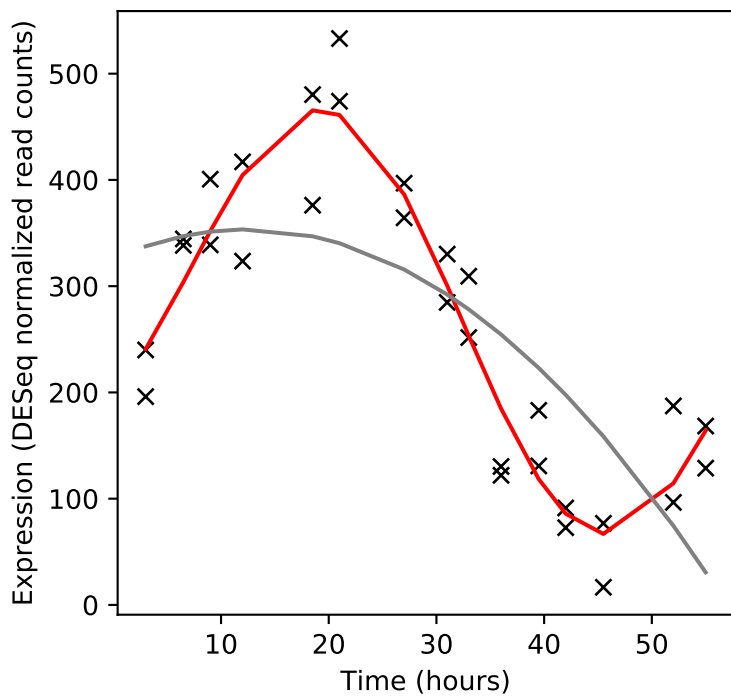
Rv3753c/-



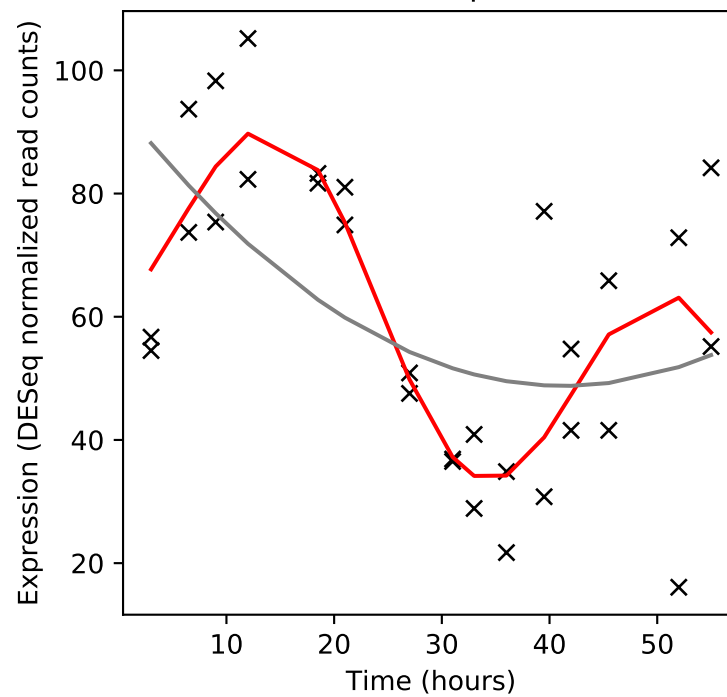
Rv3754/tyrA



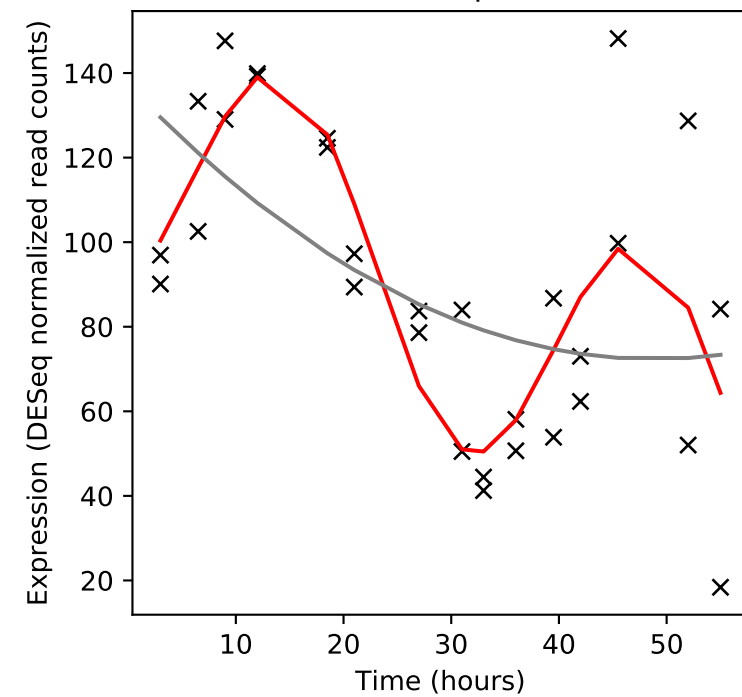
Rv3755c/-



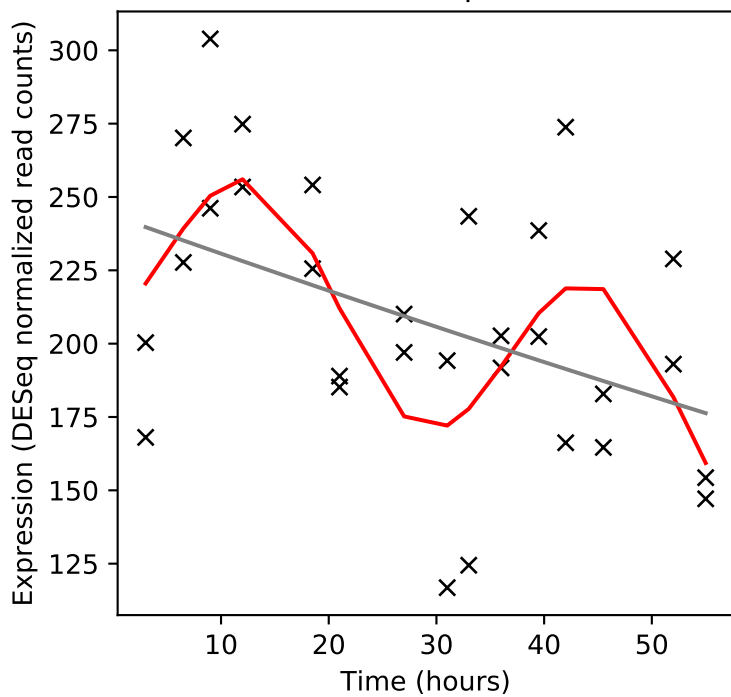
Rv3756c/proZ



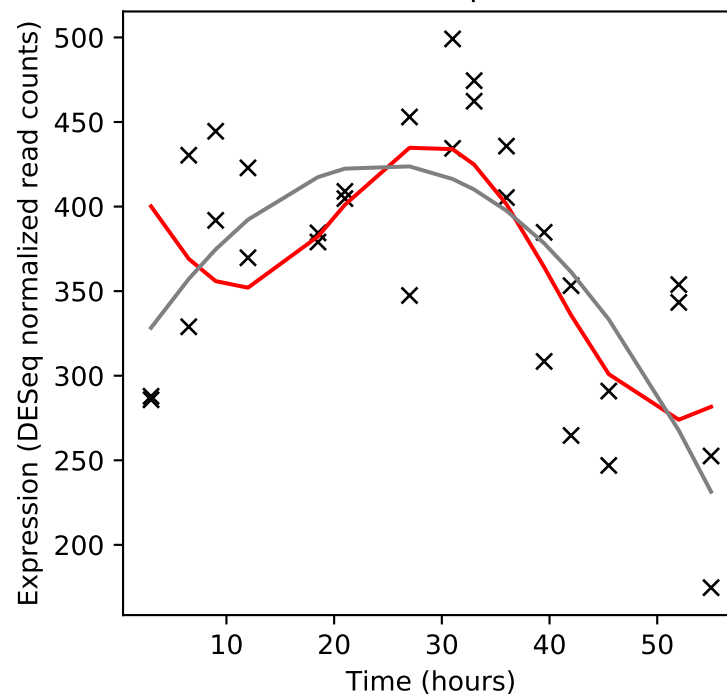
Rv3757c/proW



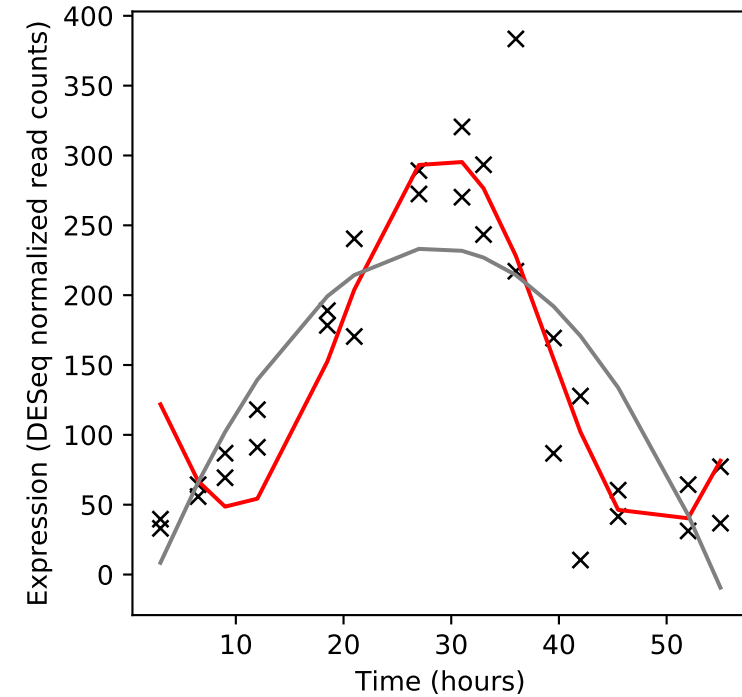
Rv3758c/proV



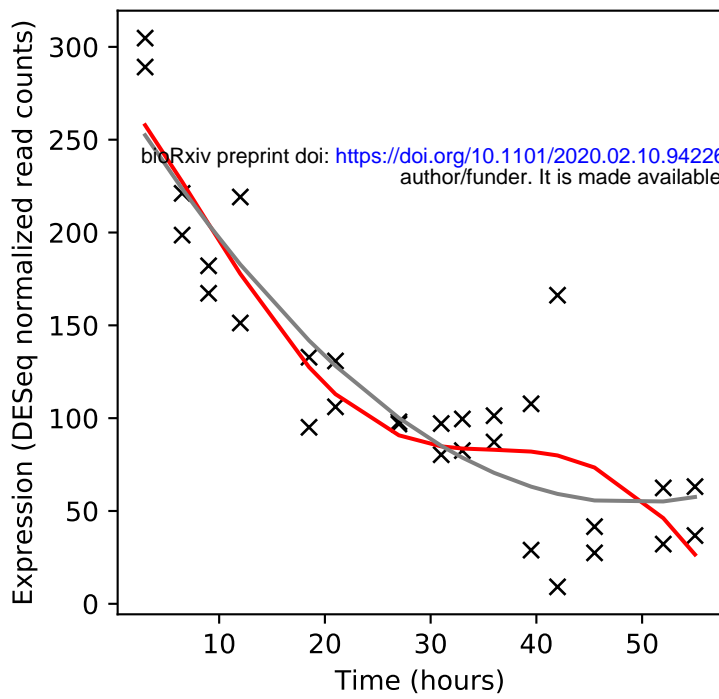
Rv3759c/proX



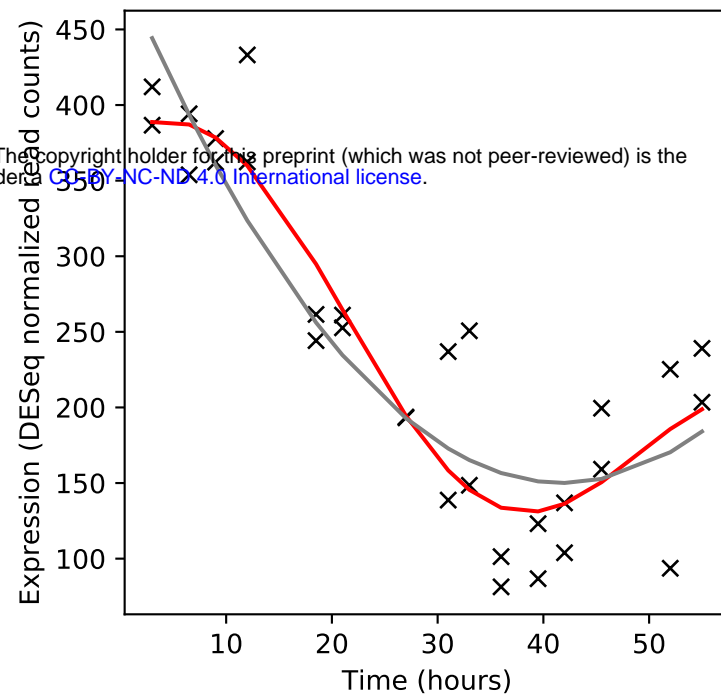
Rv3760/-



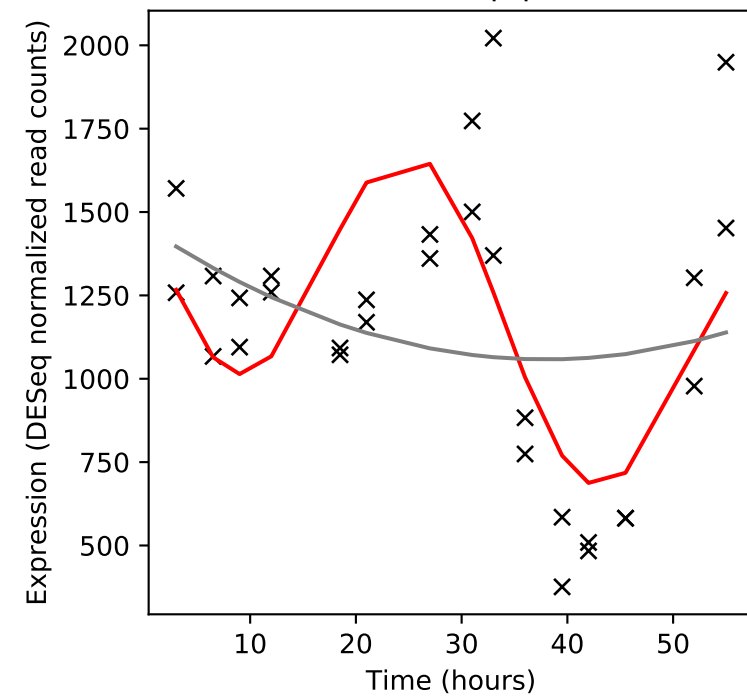
Rv3761c/fadE36



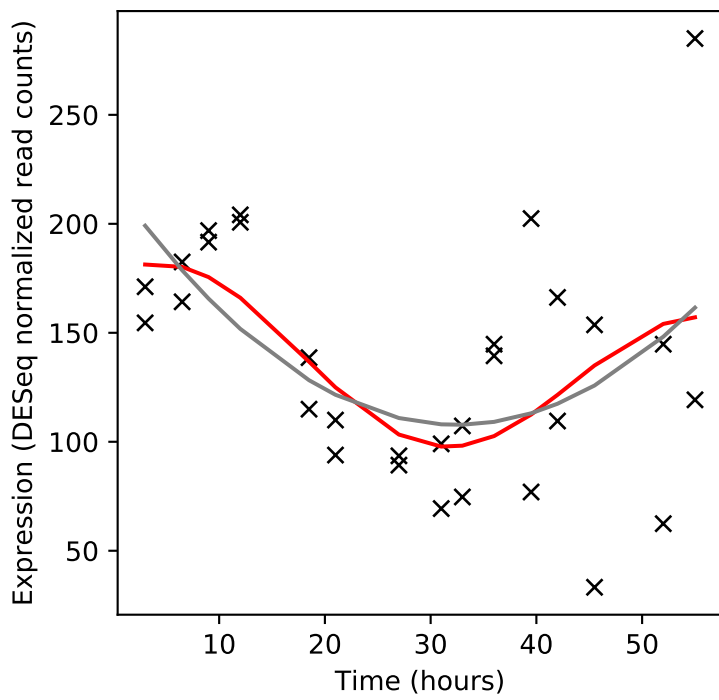
Rv3762c/-



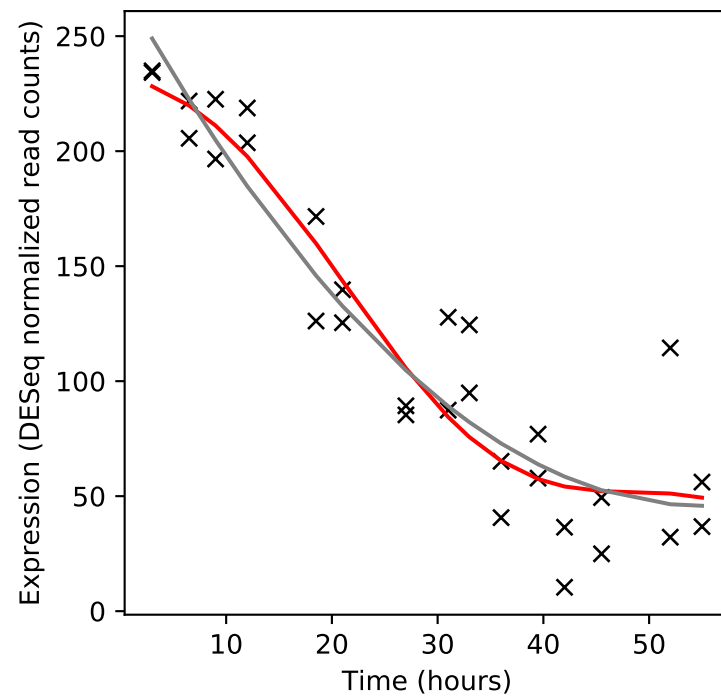
Rv3763/lpqH



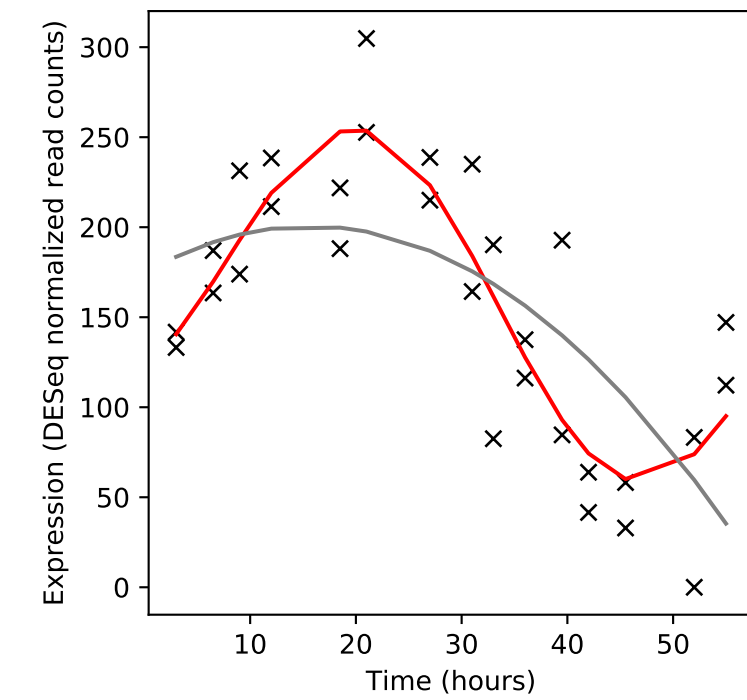
Rv3764c/tcrY



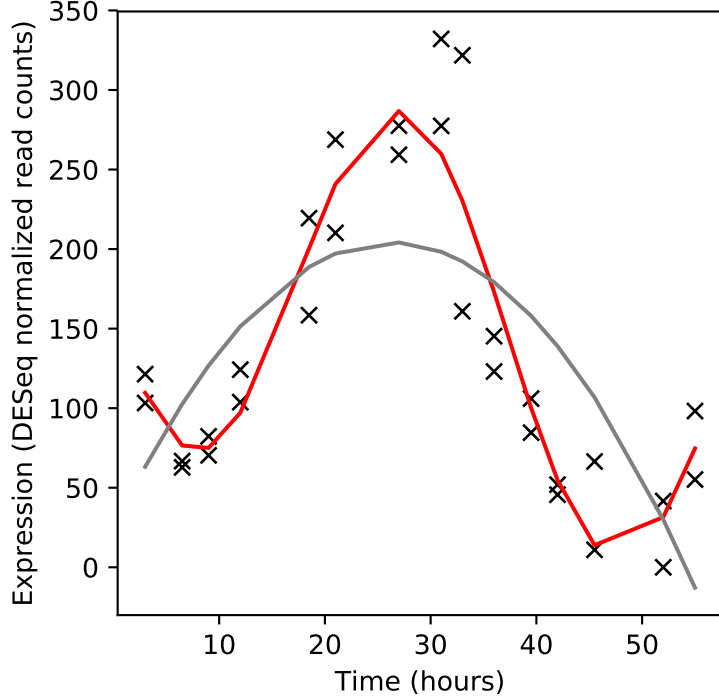
Rv3765c/tcrX



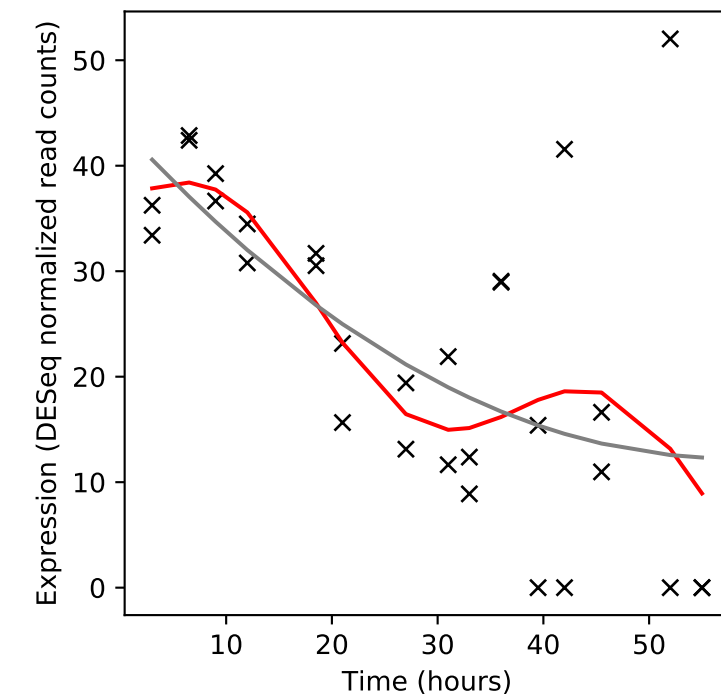
Rv3766/-



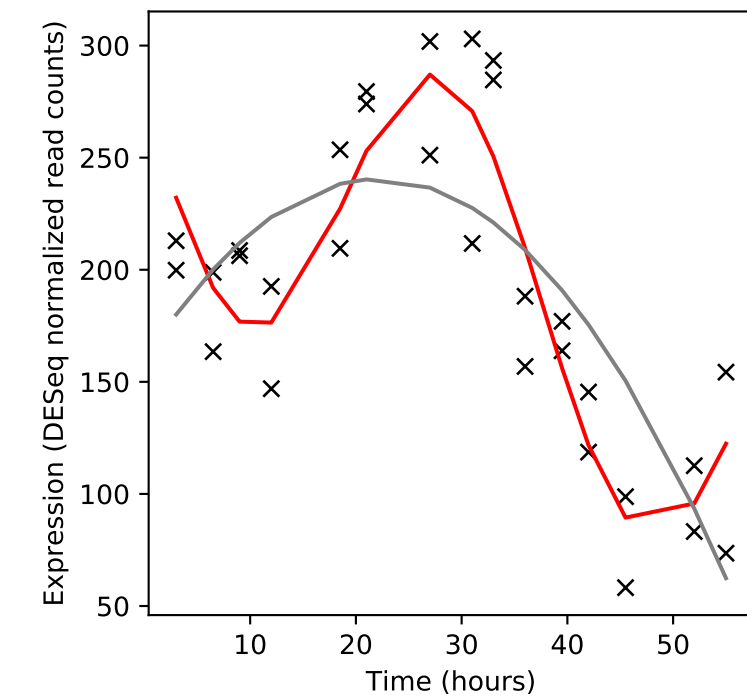
Rv3767c/-



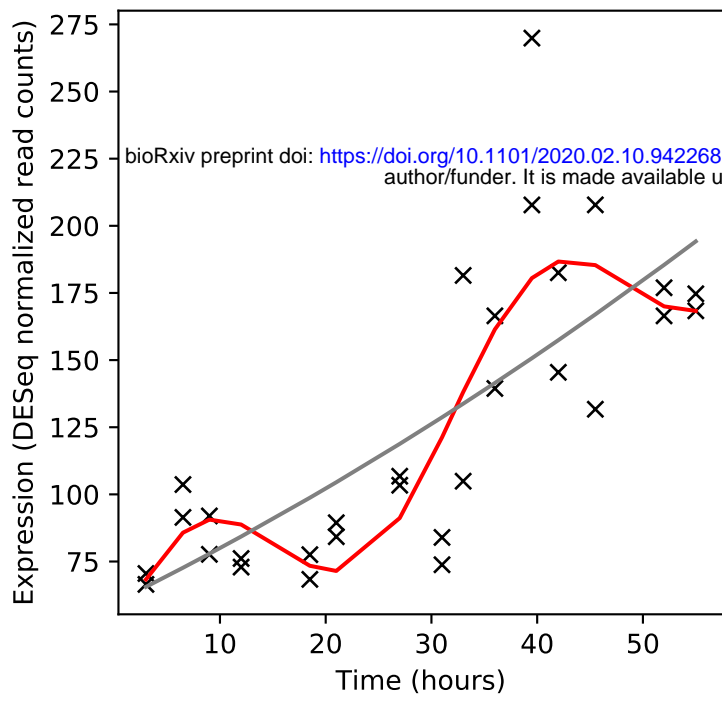
Rv3768/-



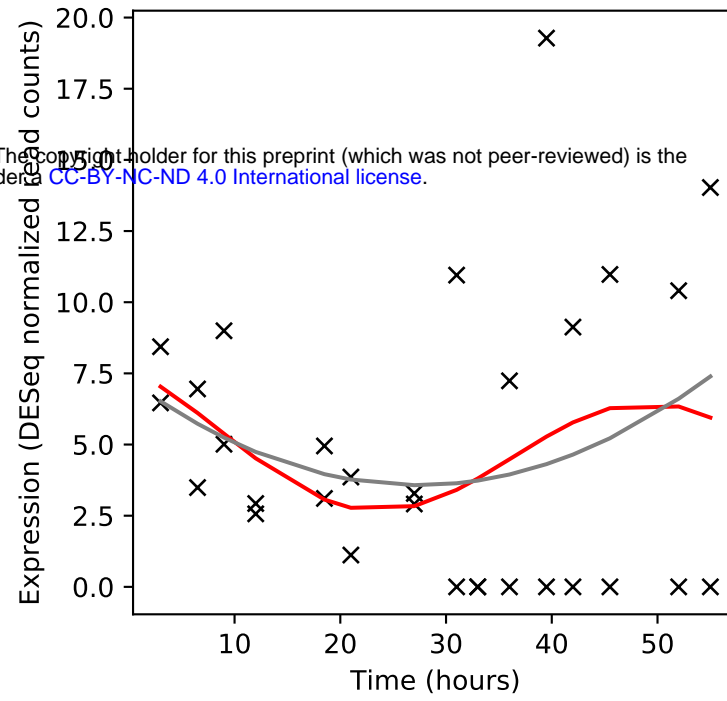
Rv3769/-



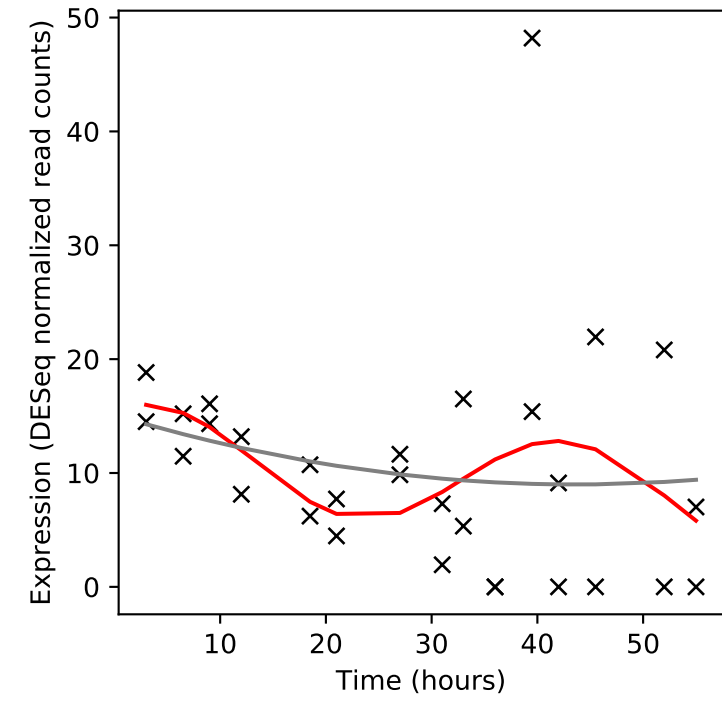
Rv3770c/-



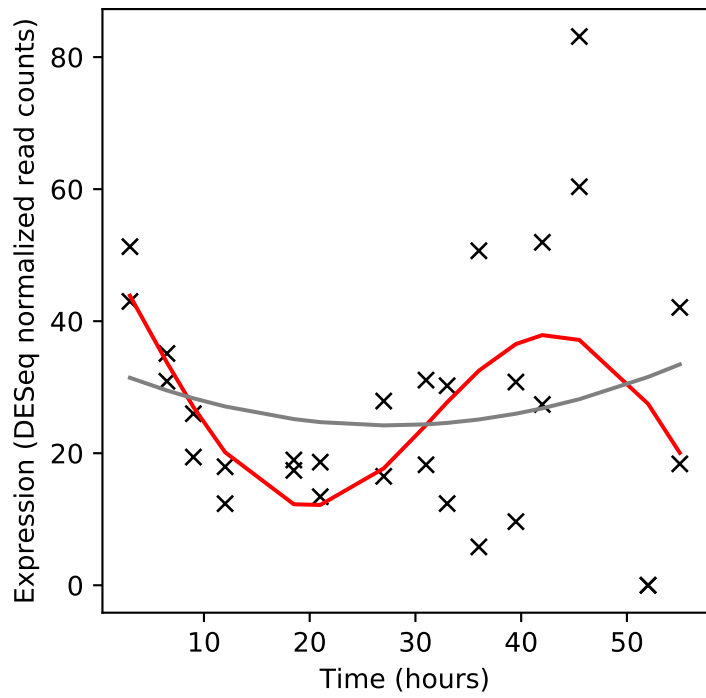
Rv3770A/-



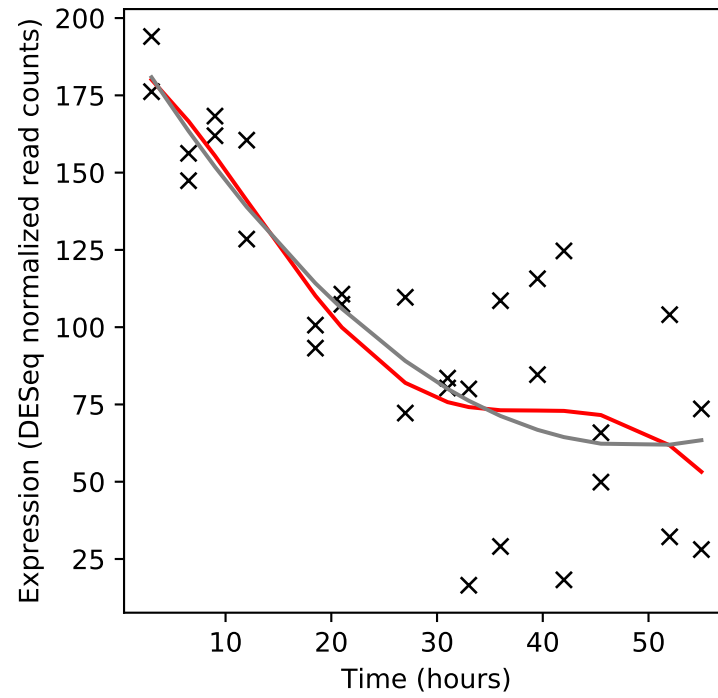
Rv3770B/-



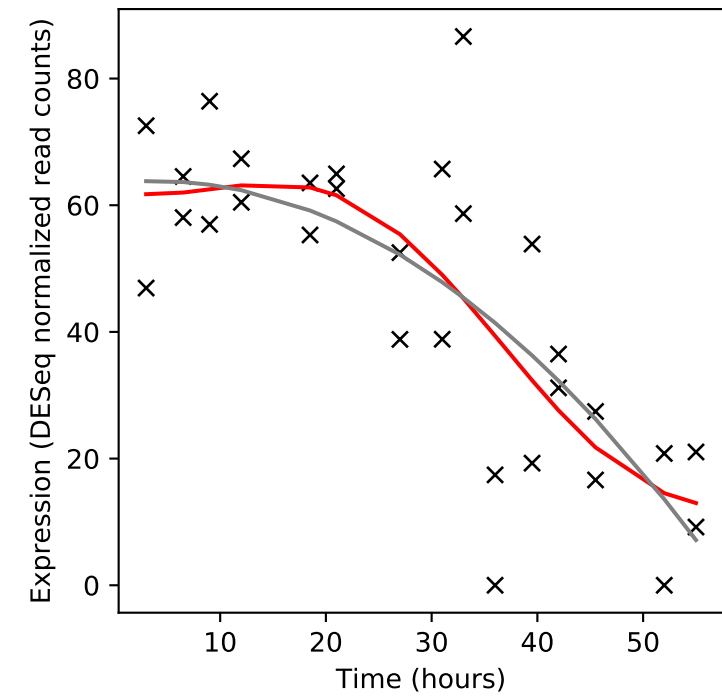
Rv3771c/-



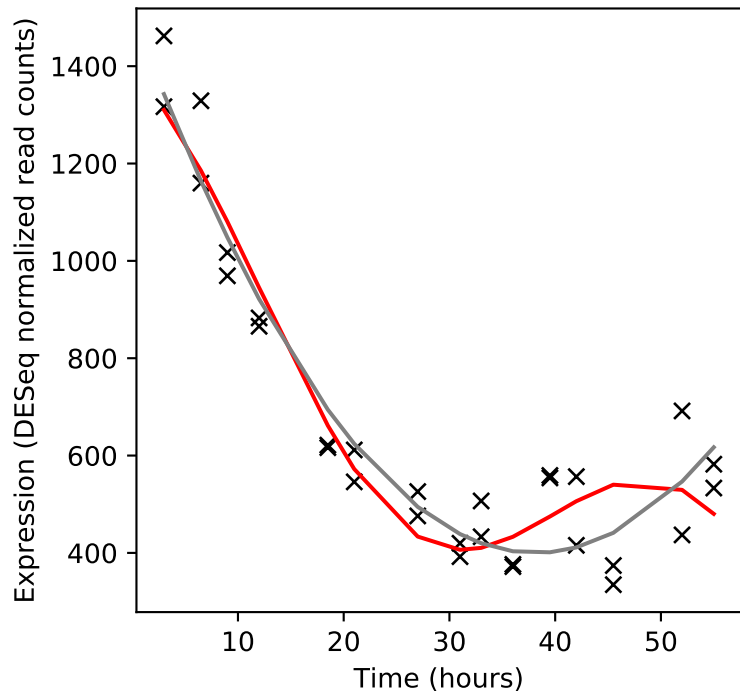
Rv3772/hisC2



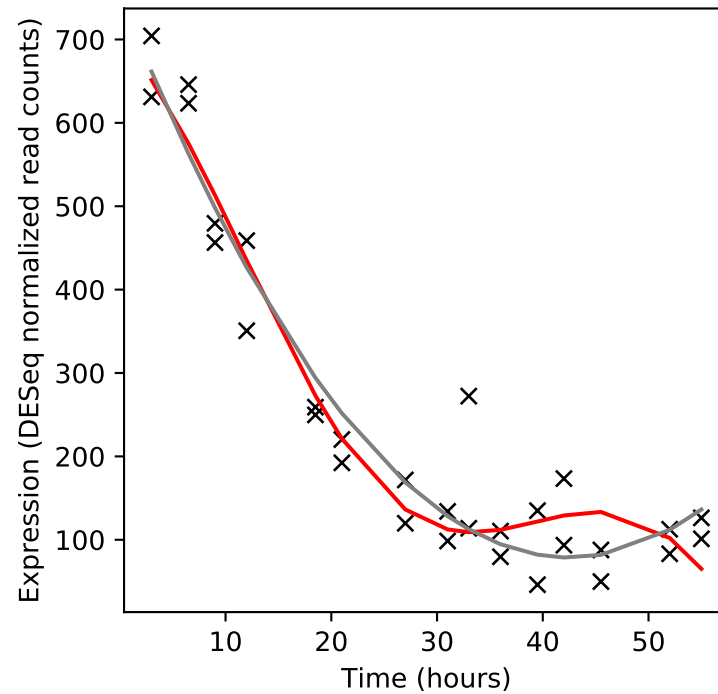
Rv3773c/-



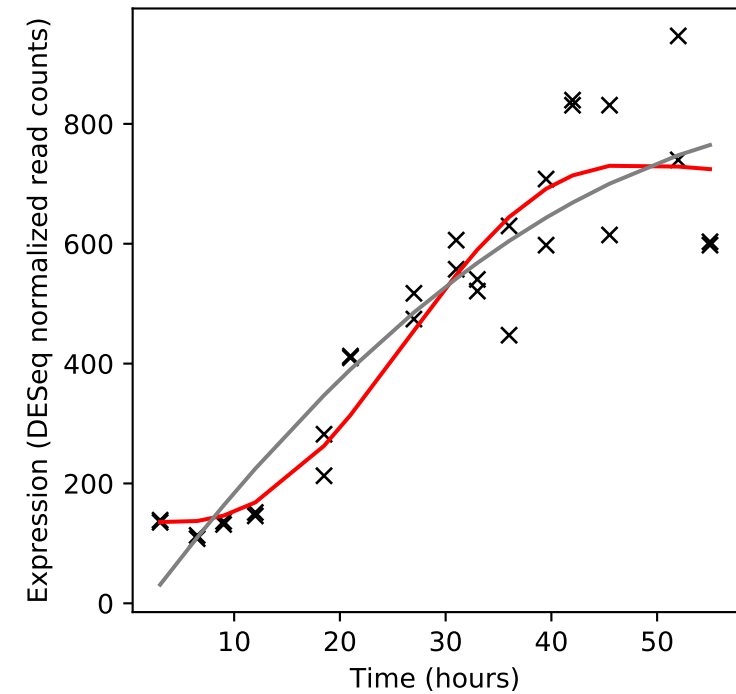
Rv3774/echA21



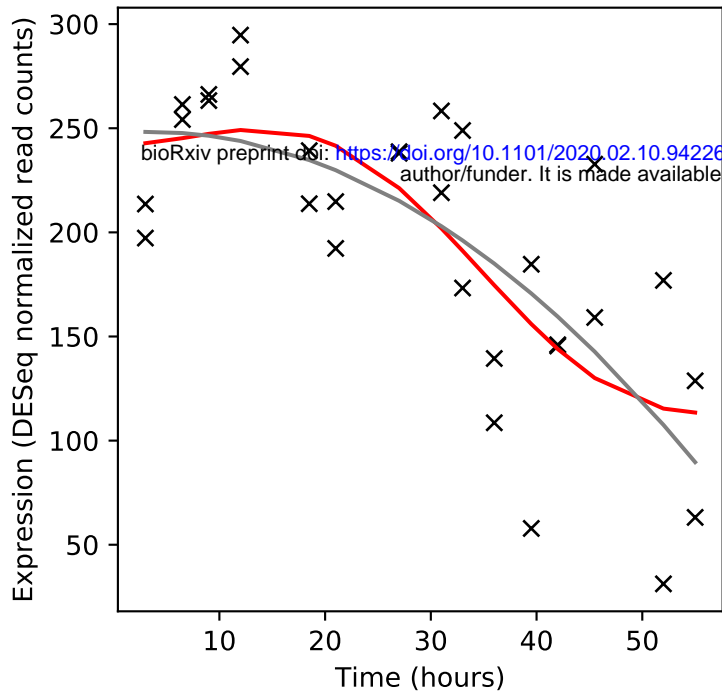
Rv3775/lipE



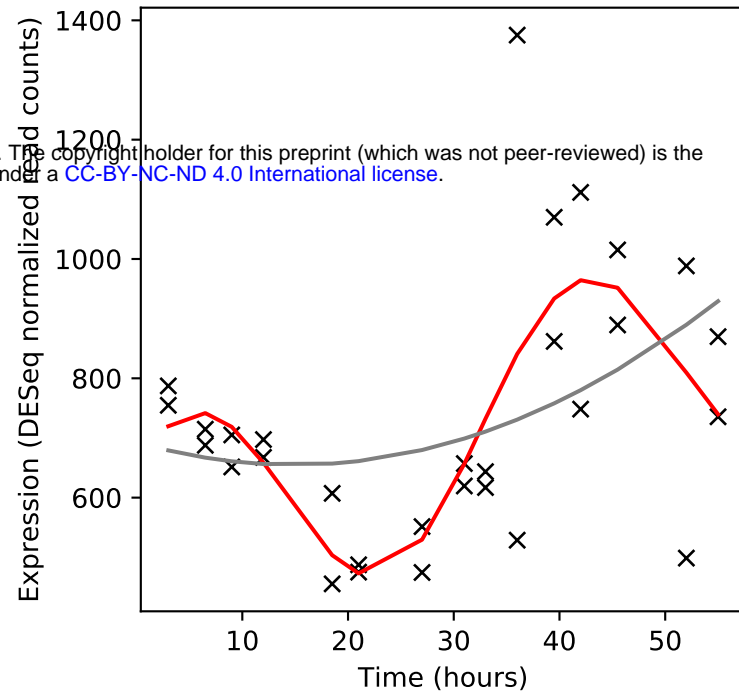
Rv3776/-



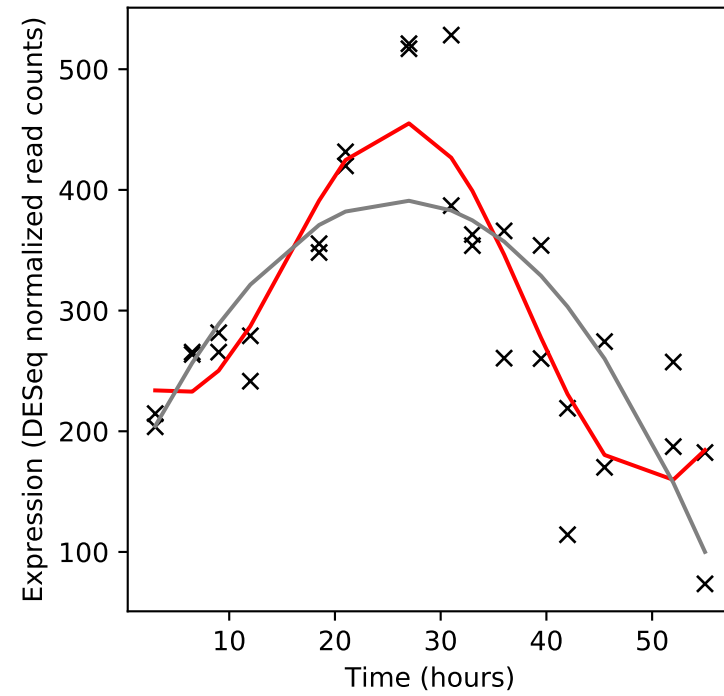
Rv3777/-



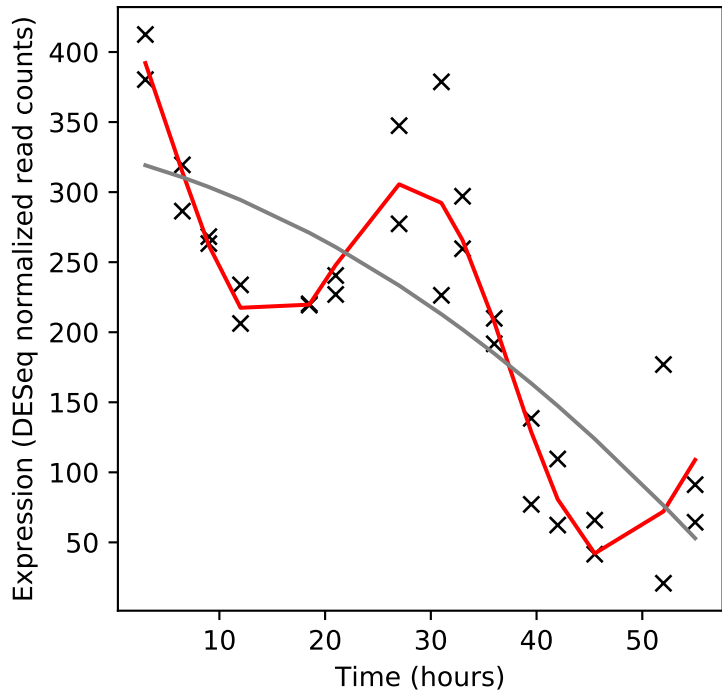
Rv3778c/-



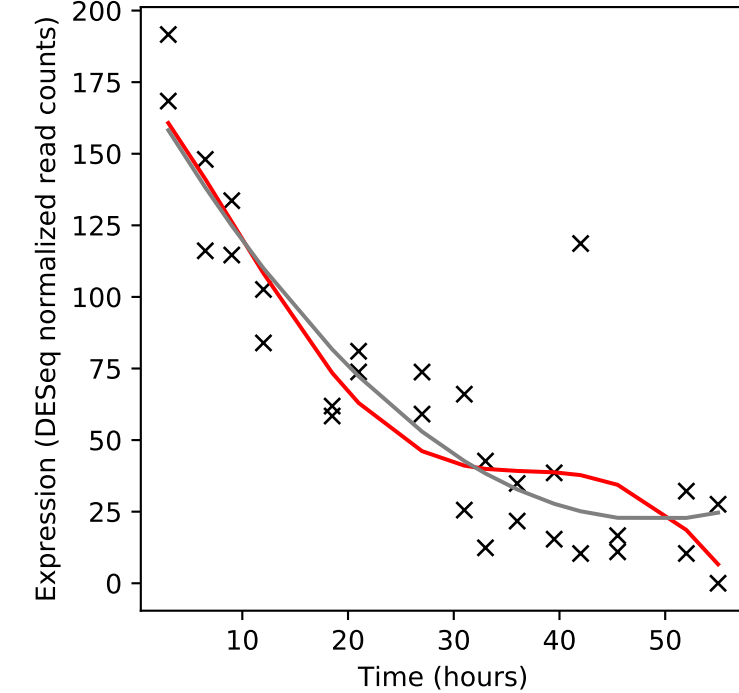
Rv3779/-



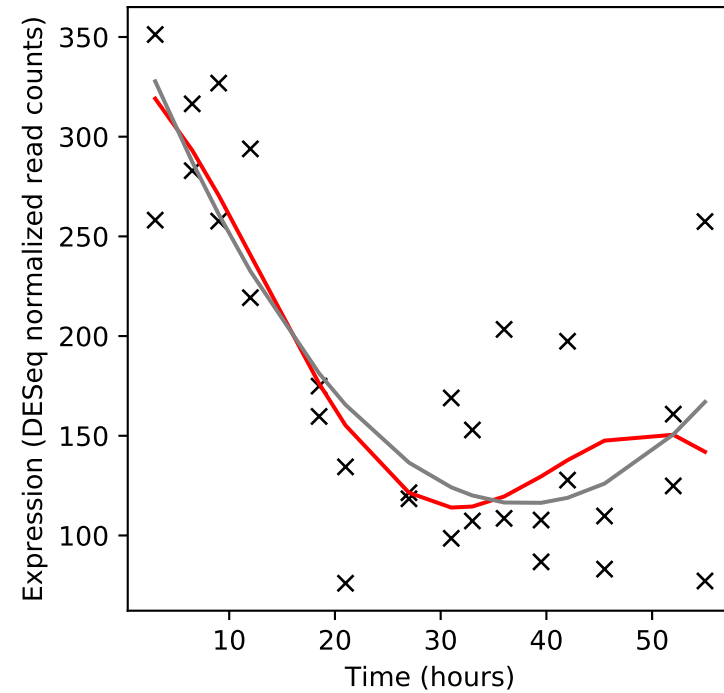
Rv3780/-



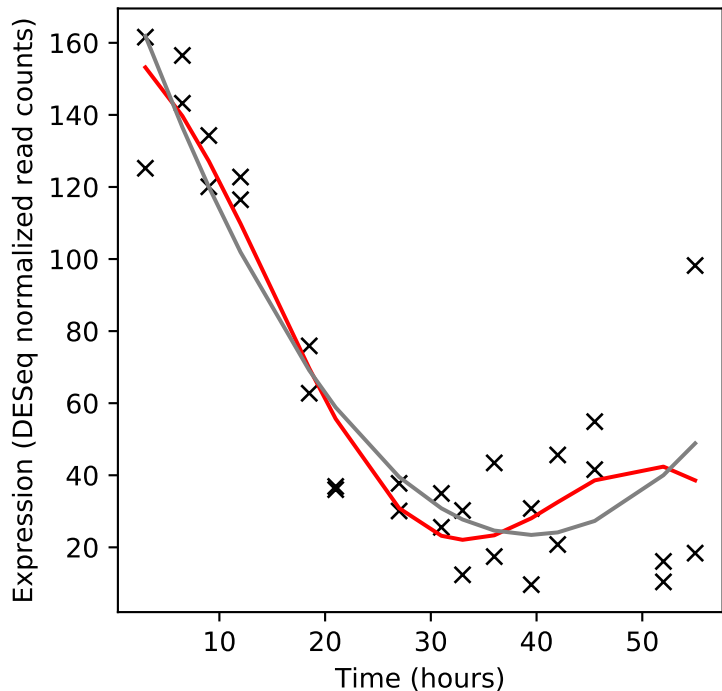
Rv3781/rfbE



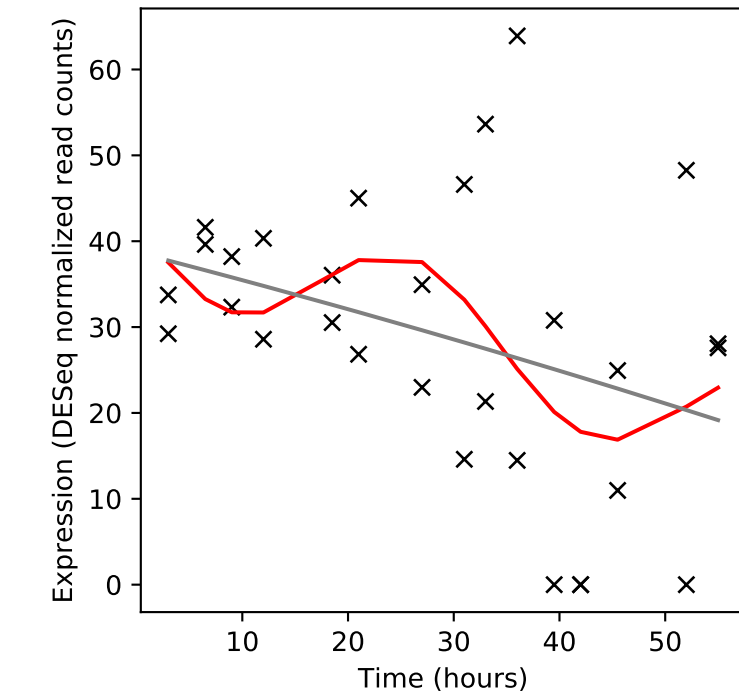
Rv3782/glfT1



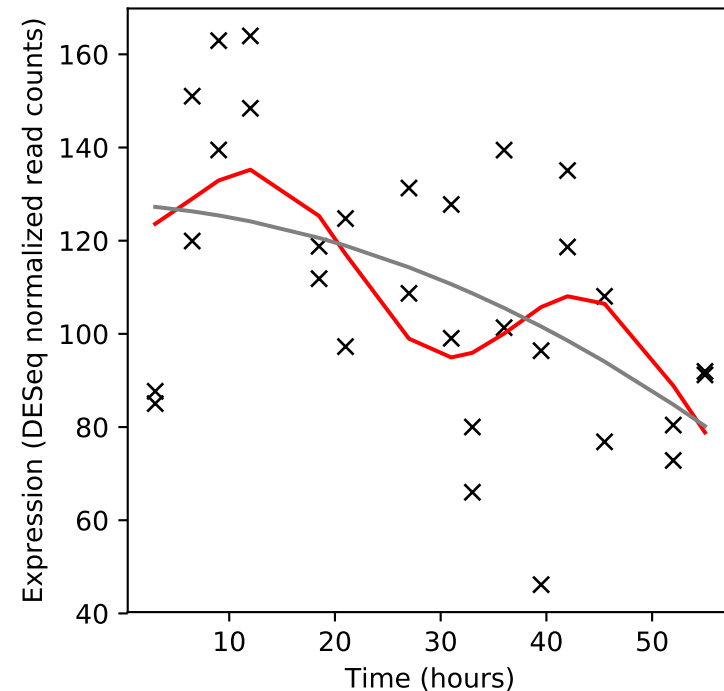
Rv3783/rfbD



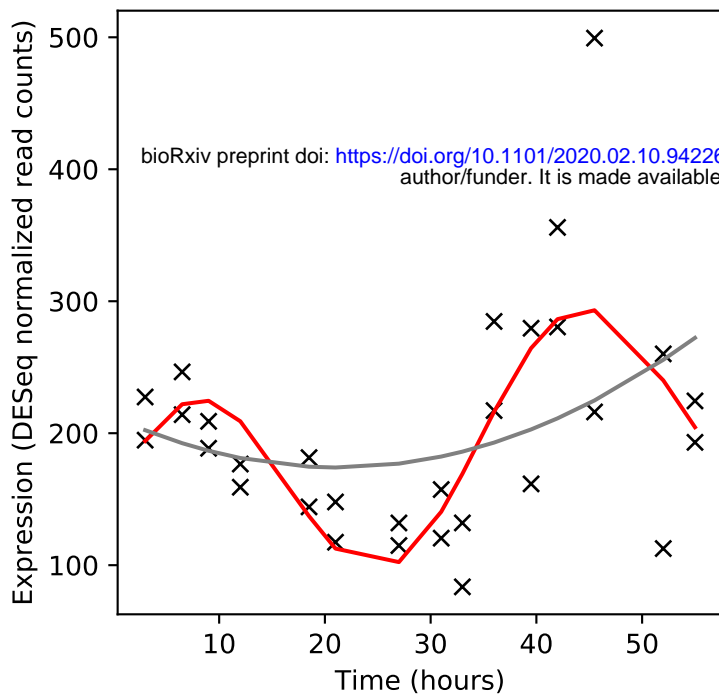
Rv3784/-



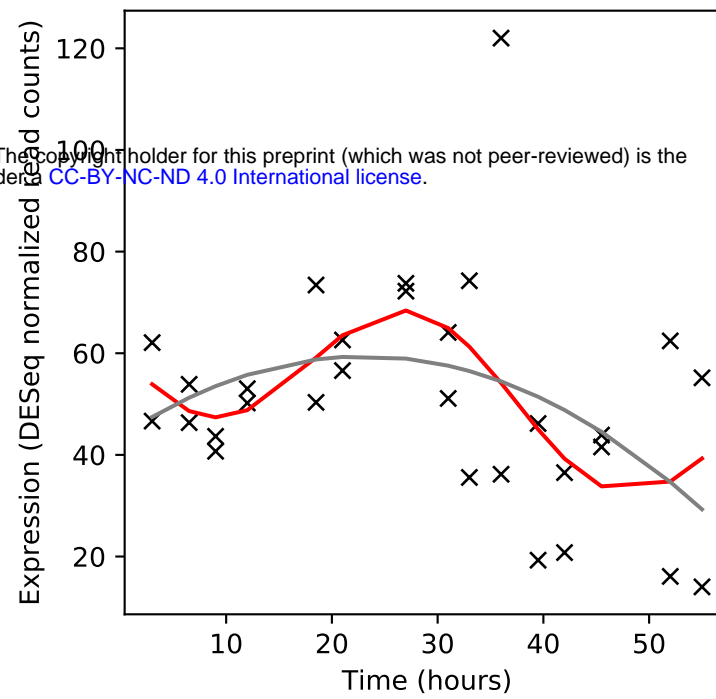
Rv3785/-



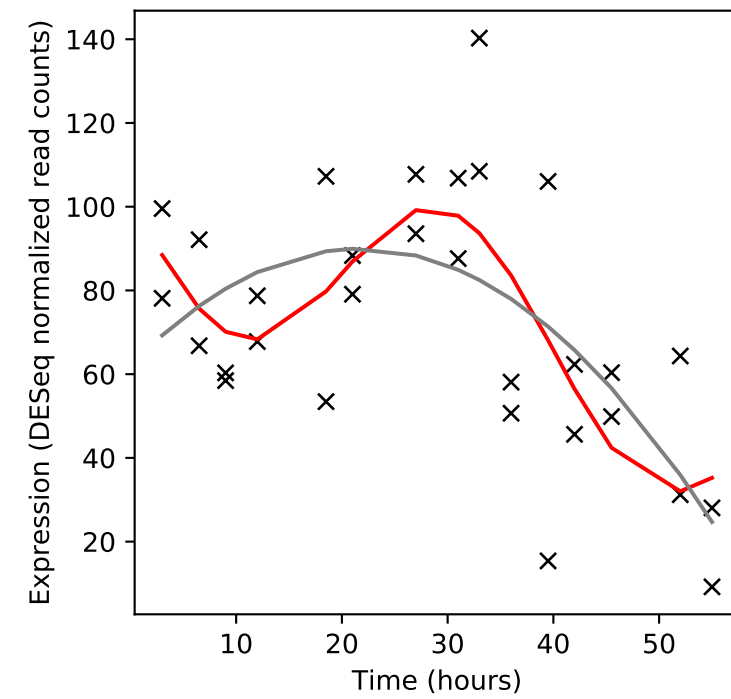
Rv3786c/-



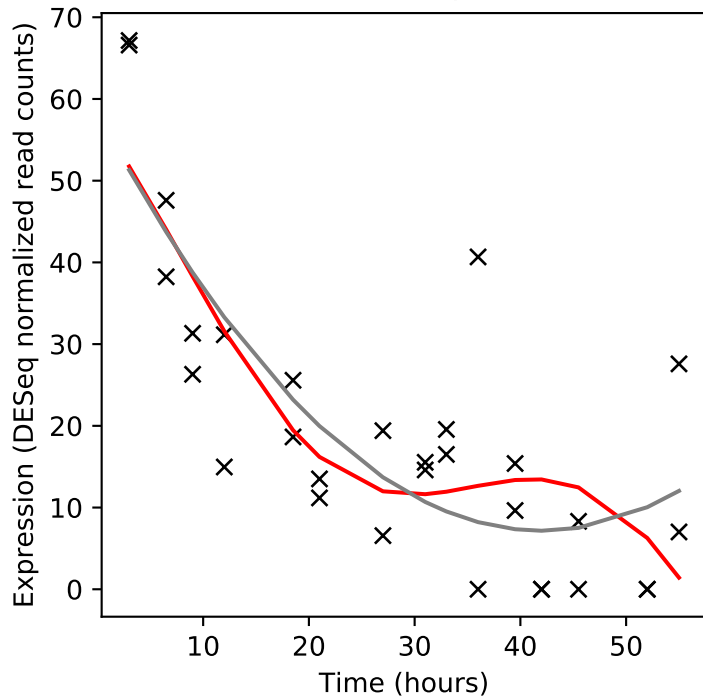
Rv3787c/-



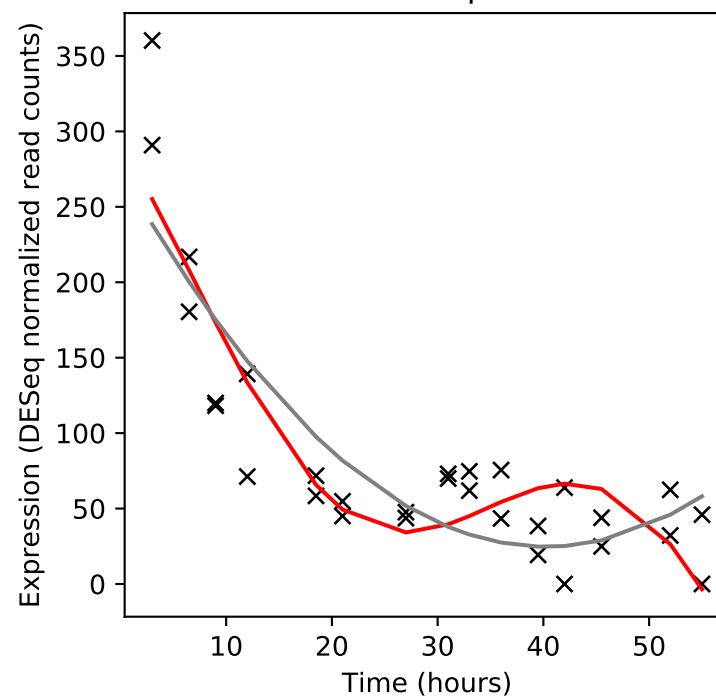
Rv3788/-



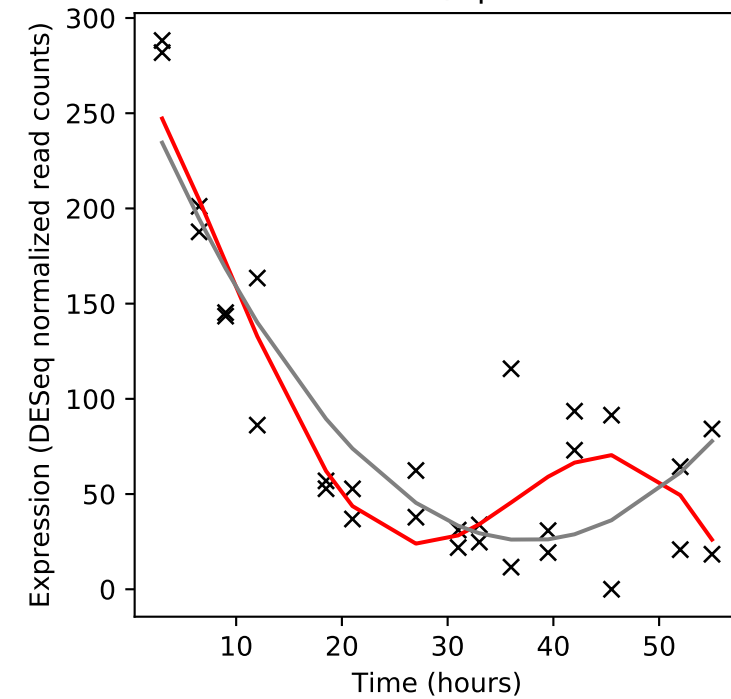
Rv3789/-



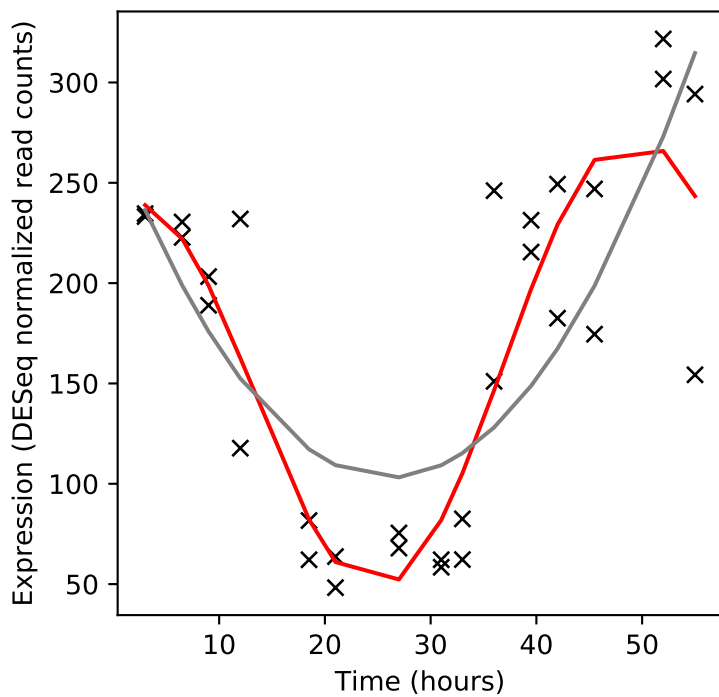
Rv3790/dprE1



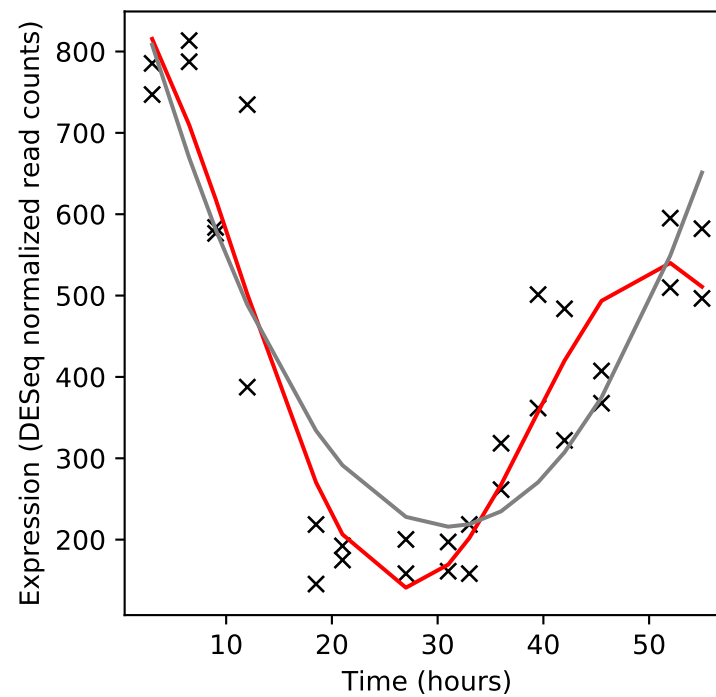
Rv3791/dprE2



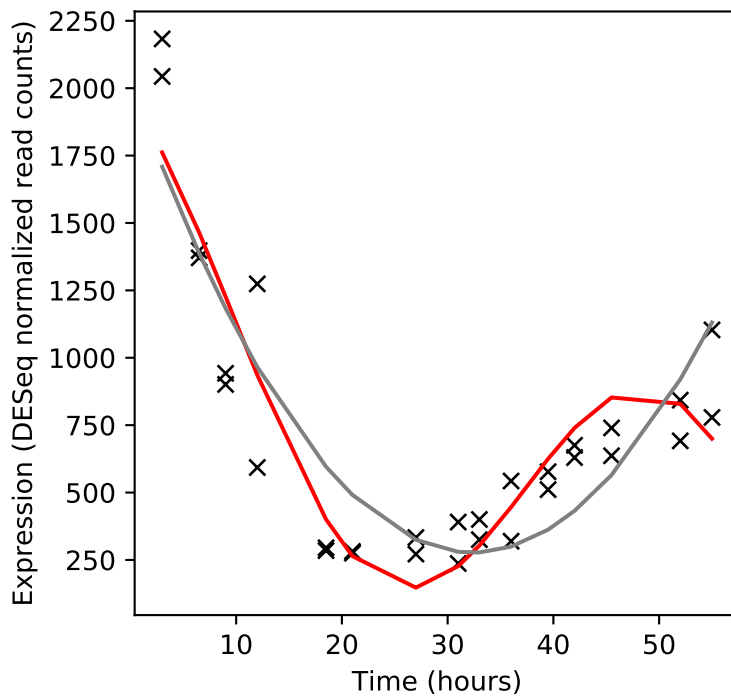
Rv3792/aftA



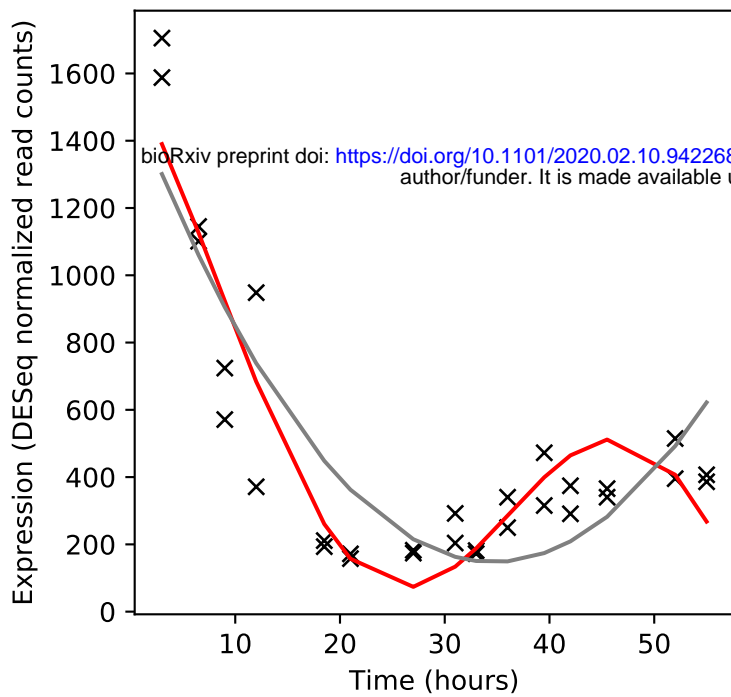
Rv3793/embC



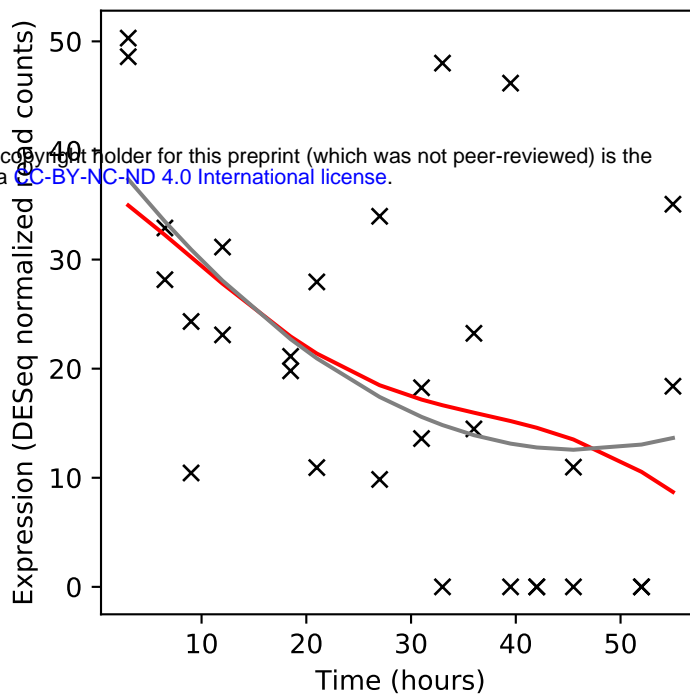
Rv3794/embA



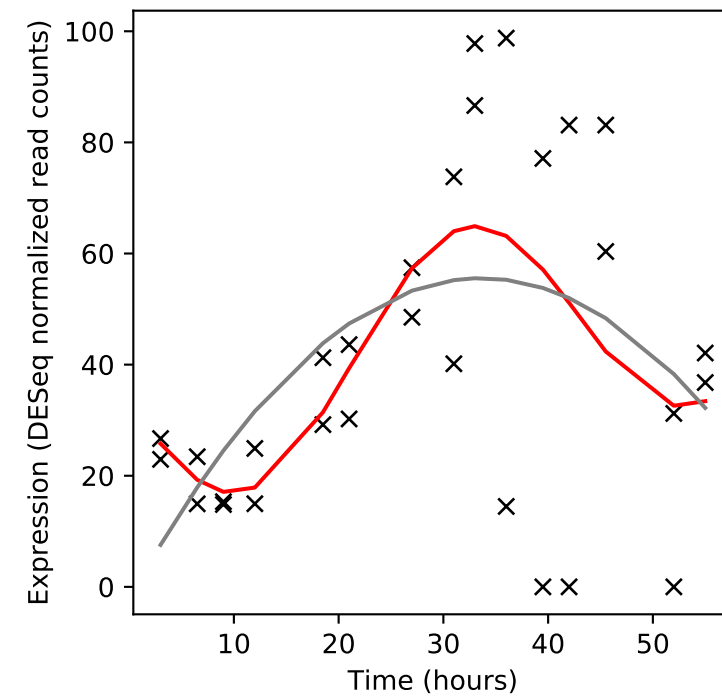
Rv3795/embB



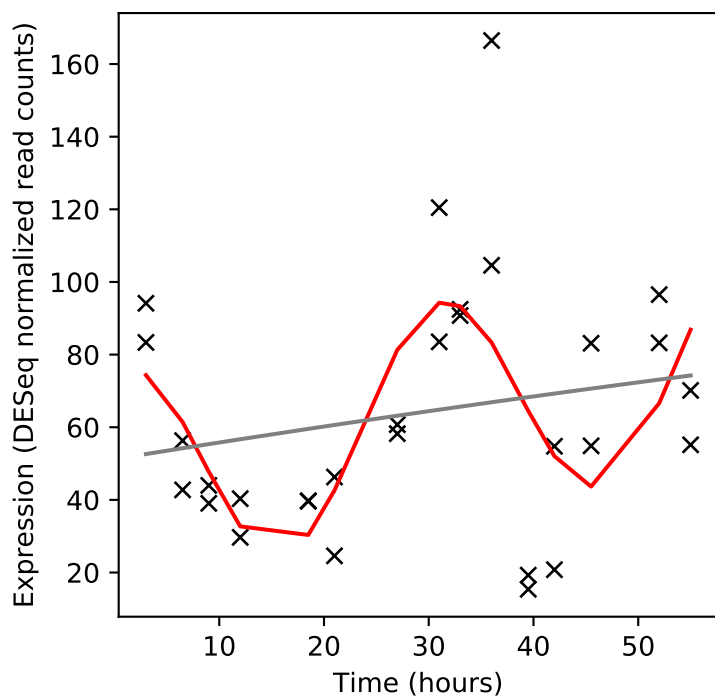
Rv3796/-



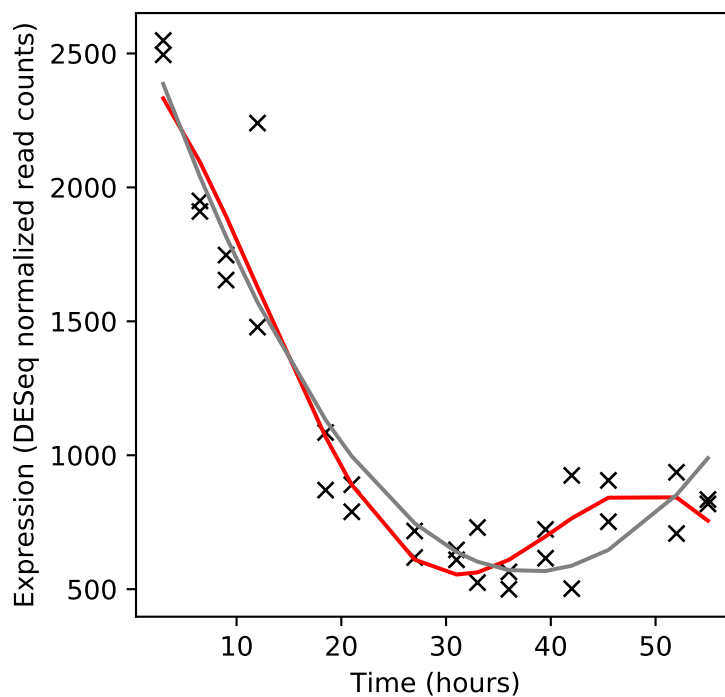
Rv3797/fadE35



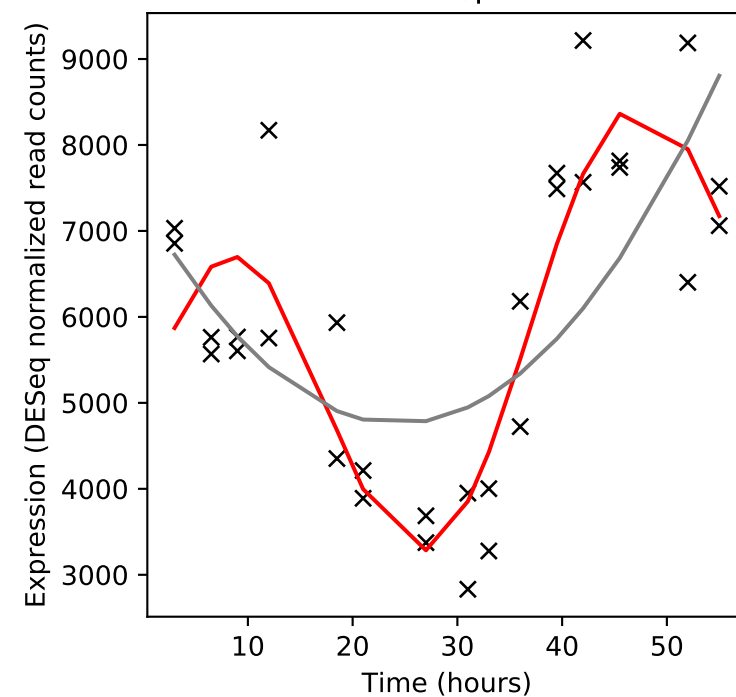
Rv3798/-



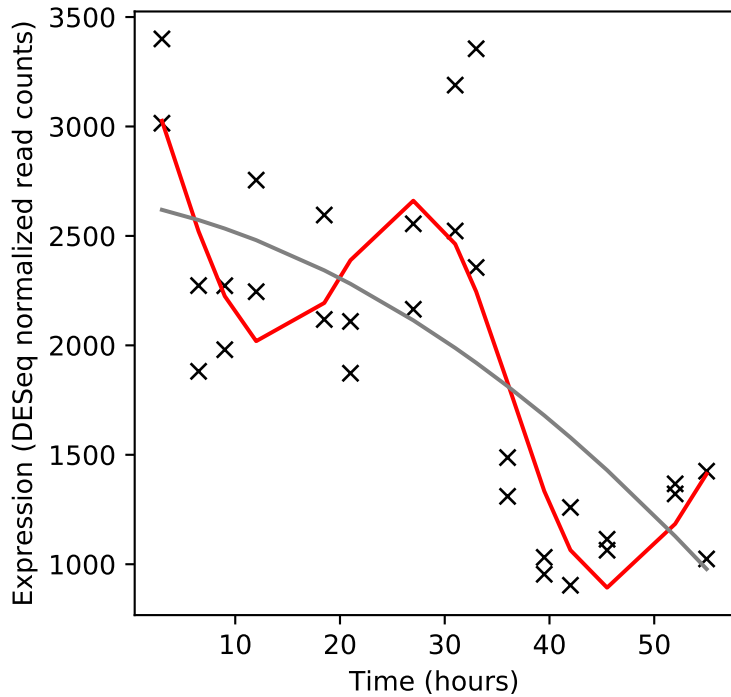
Rv3799c/accD4



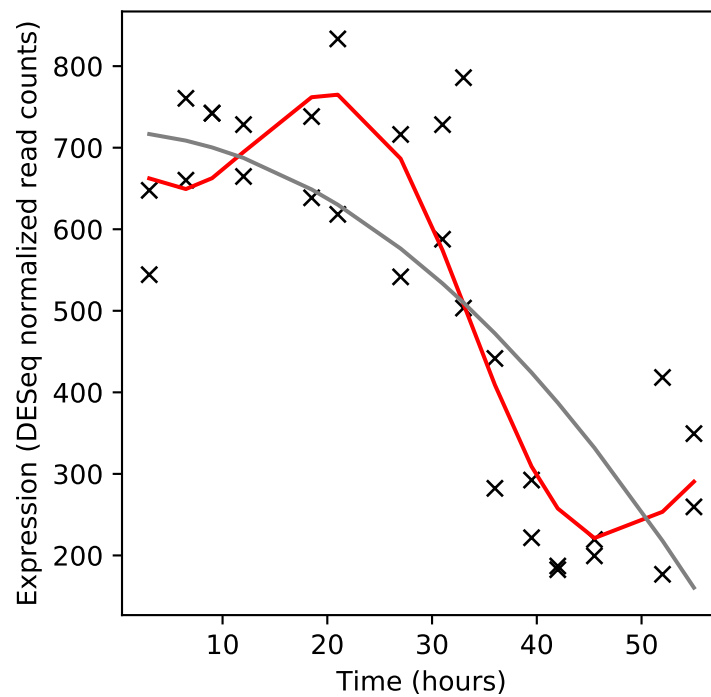
Rv3800c/pks13



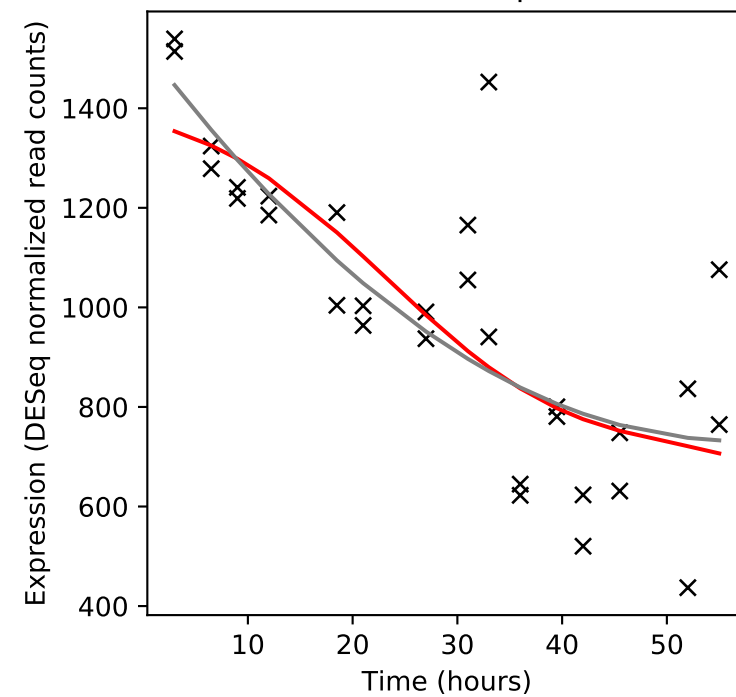
Rv3801c/fadD32



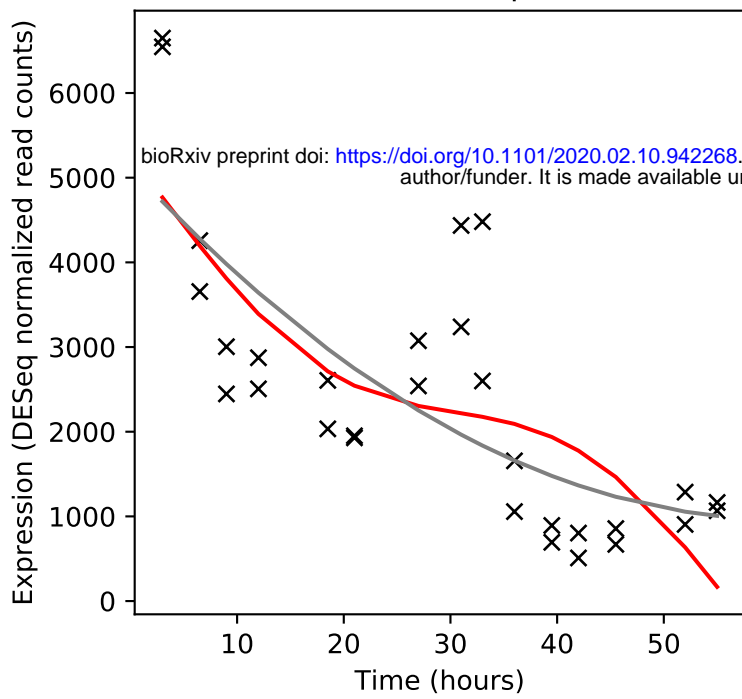
Rv3802c/-



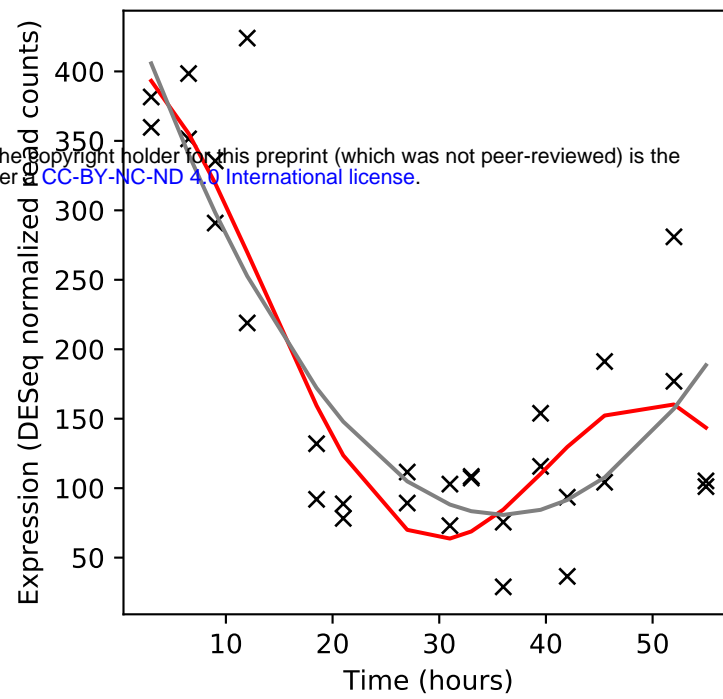
Rv3803c/fbpD



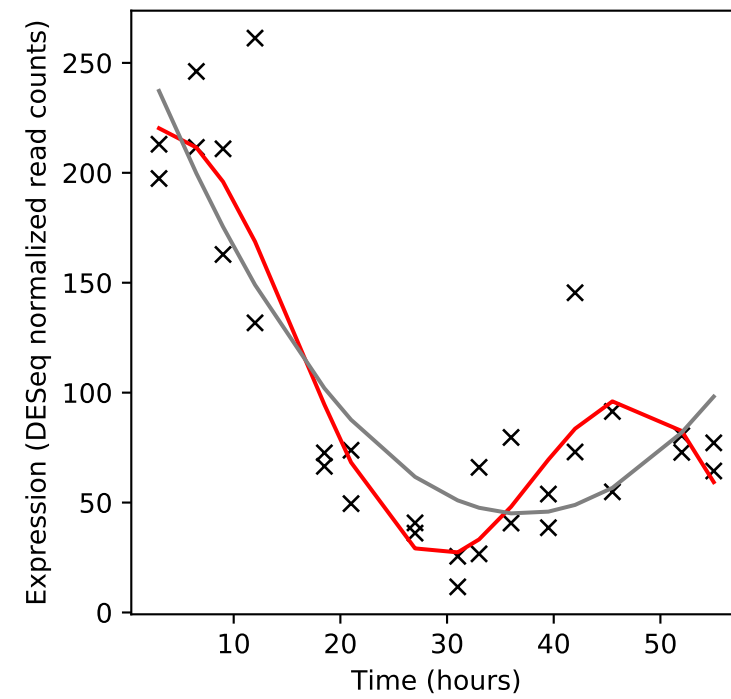
Rv3804c/fbpA



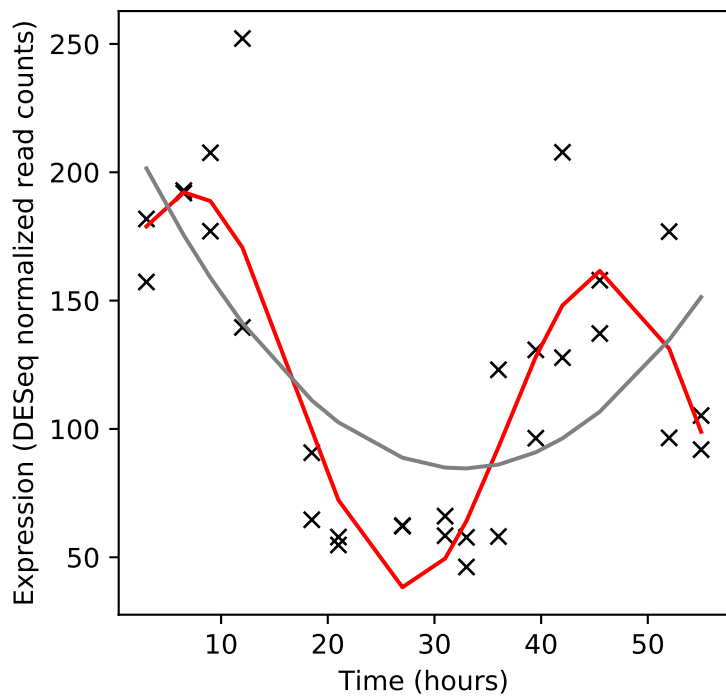
Rv3805c/aftB



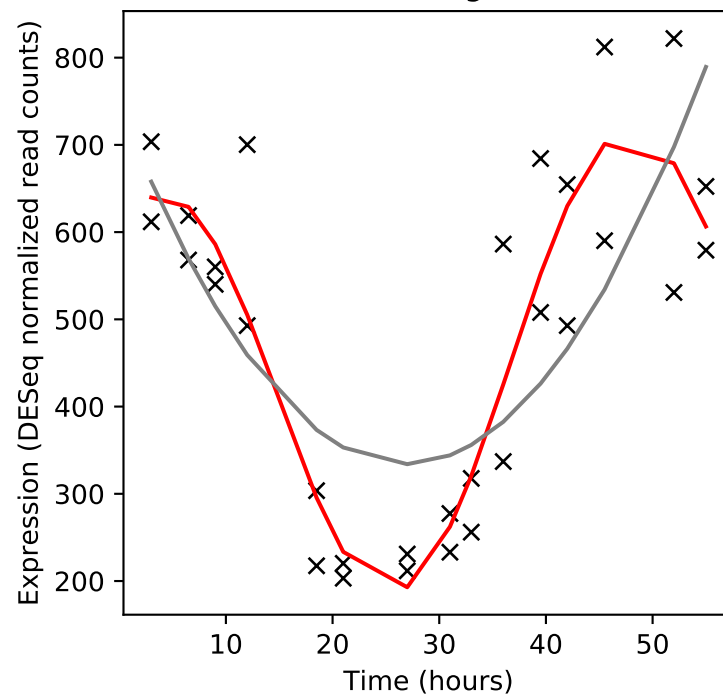
Rv3806c/ubiA



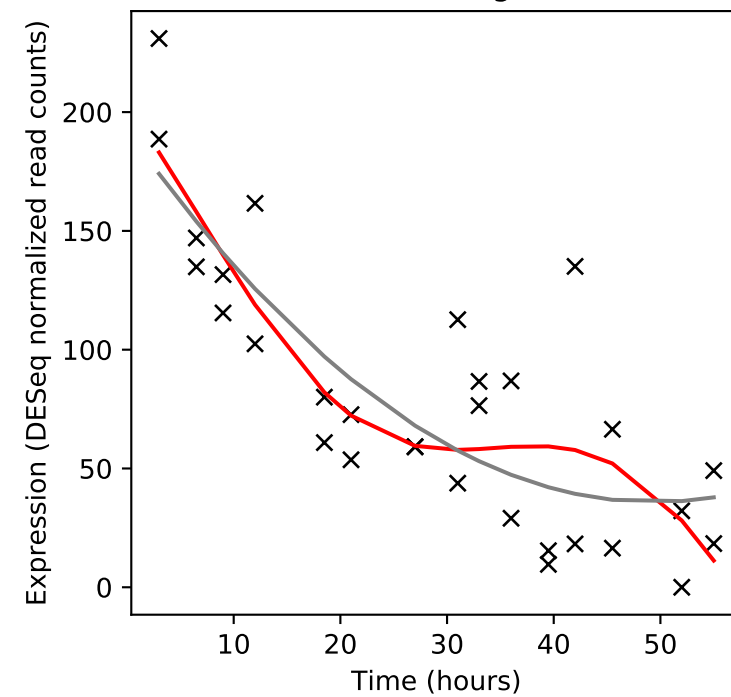
Rv3807c/-



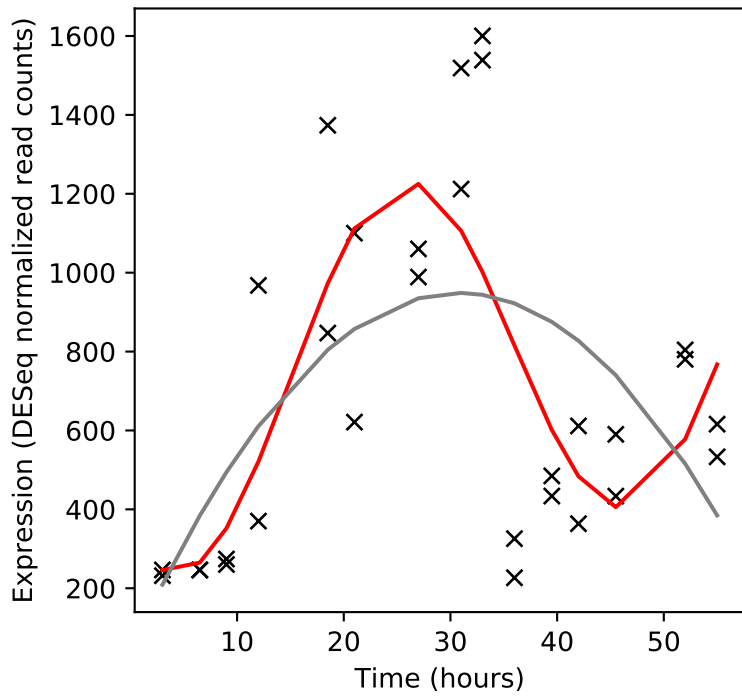
Rv3808c/glfT2



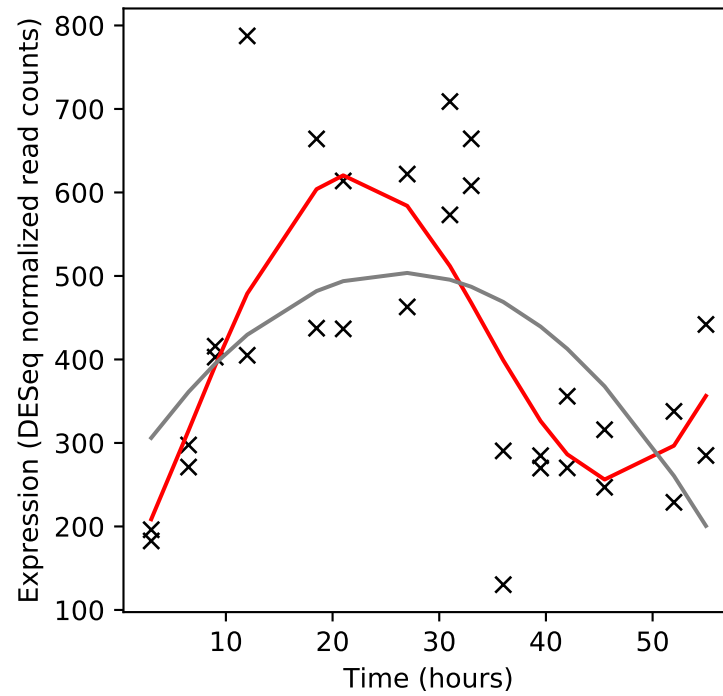
Rv3809c/glf



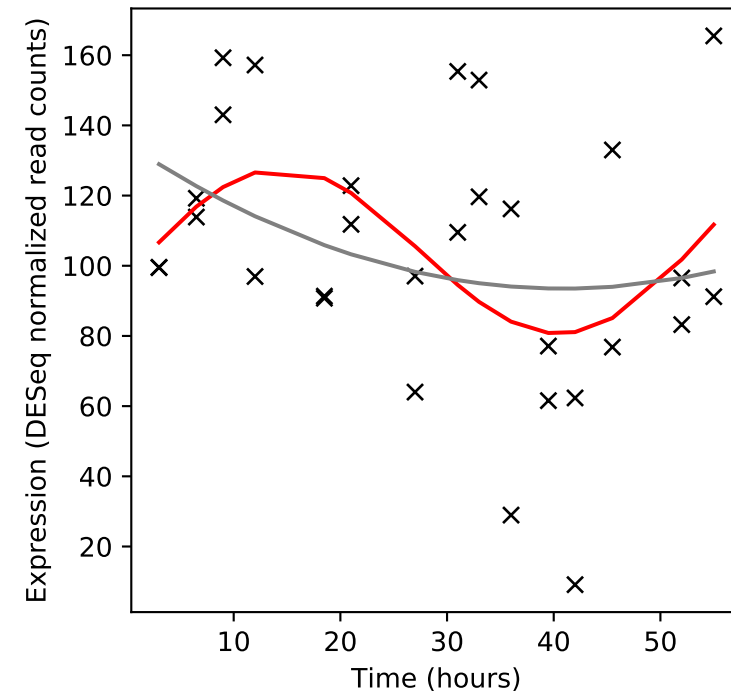
Rv3810/pirG



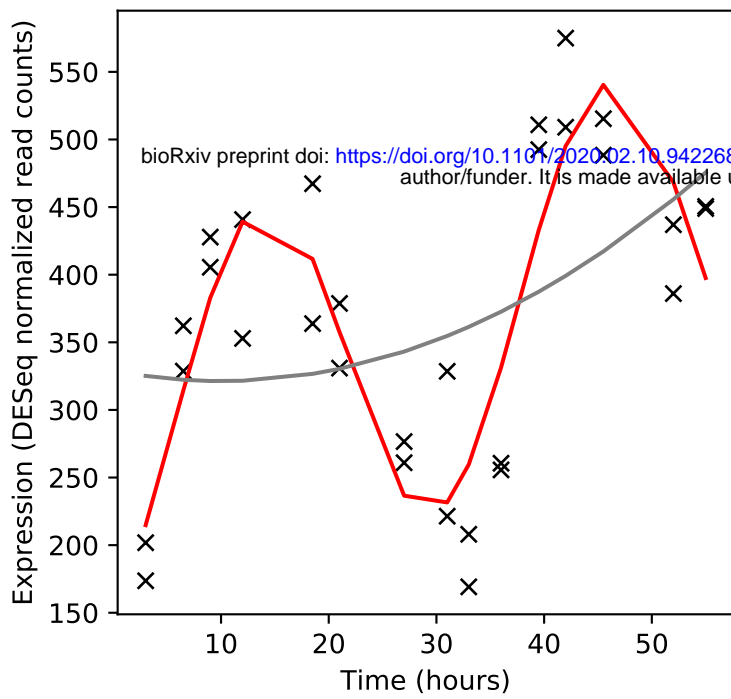
Rv3811c/-



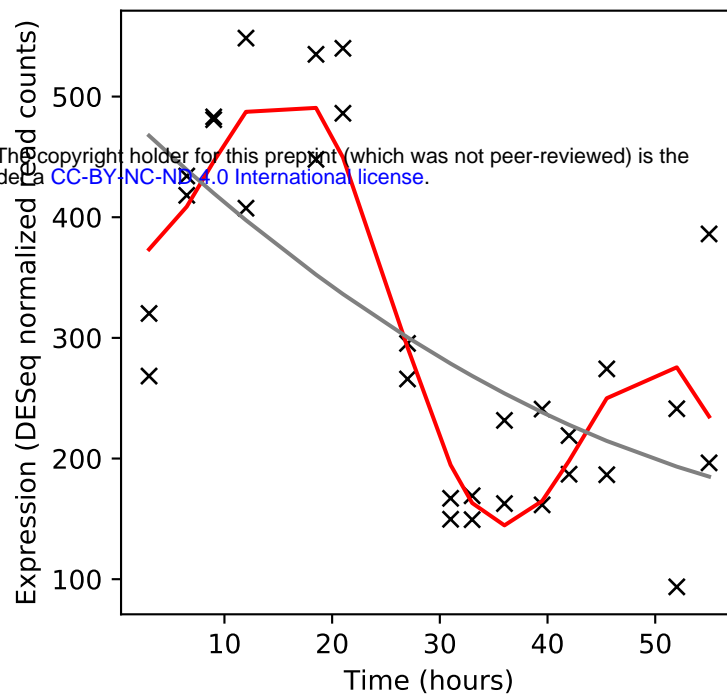
Rv3812/PE_PGRS62



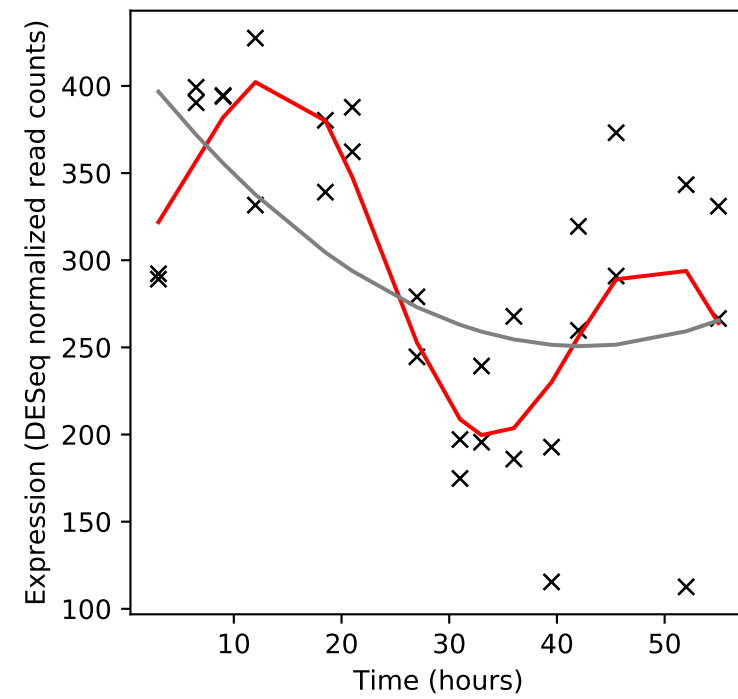
Rv3813c/-



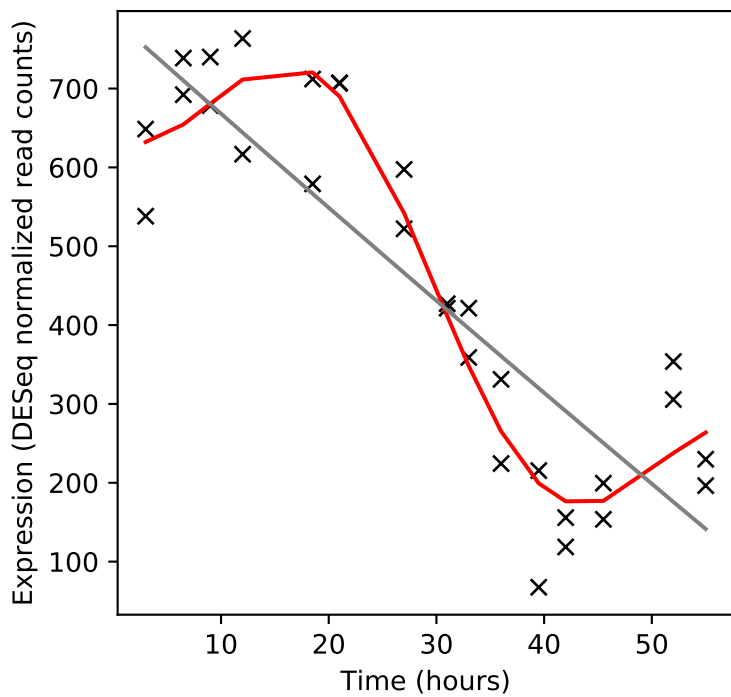
Rv3814c/-



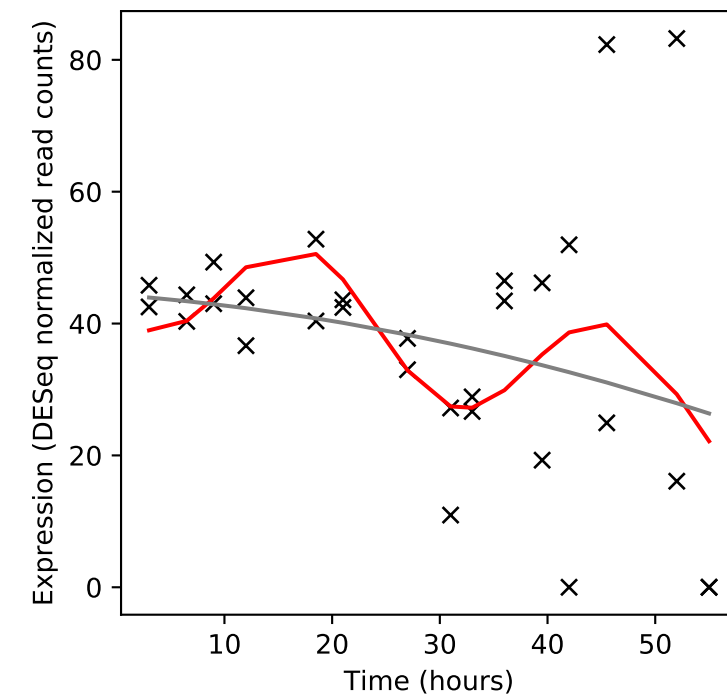
Rv3815c/-



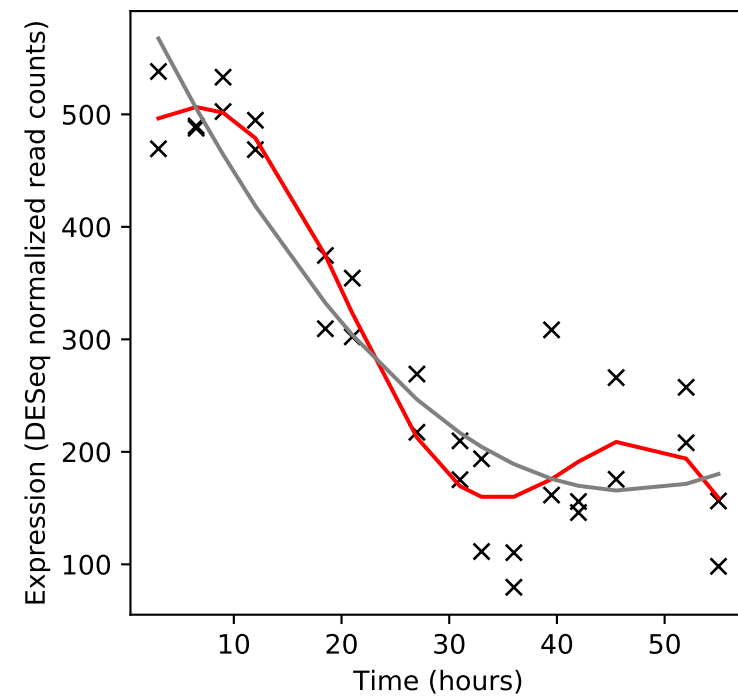
Rv3816c/-



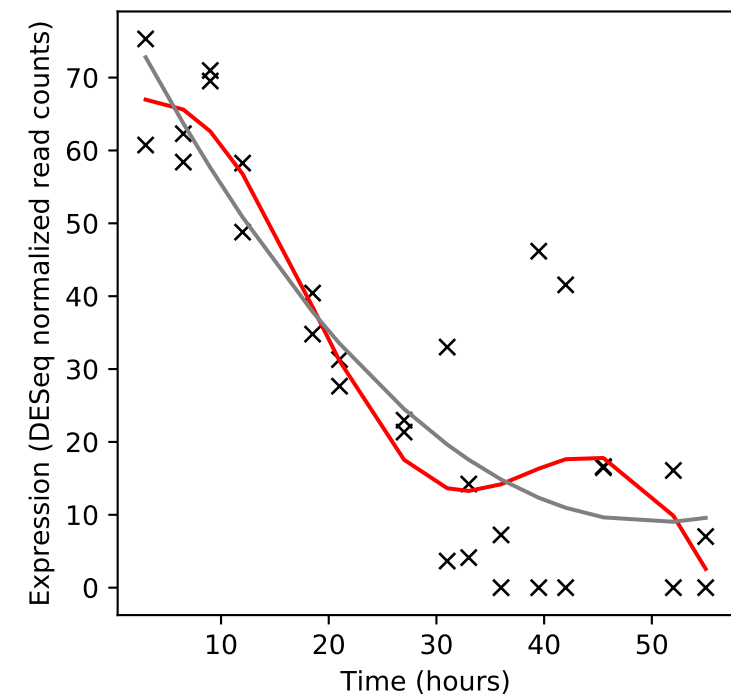
Rv3817/-



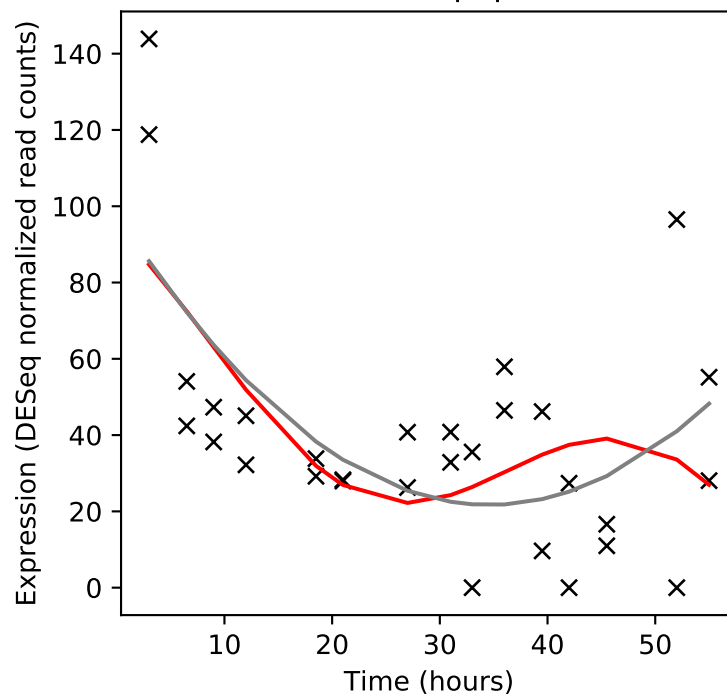
Rv3818/-



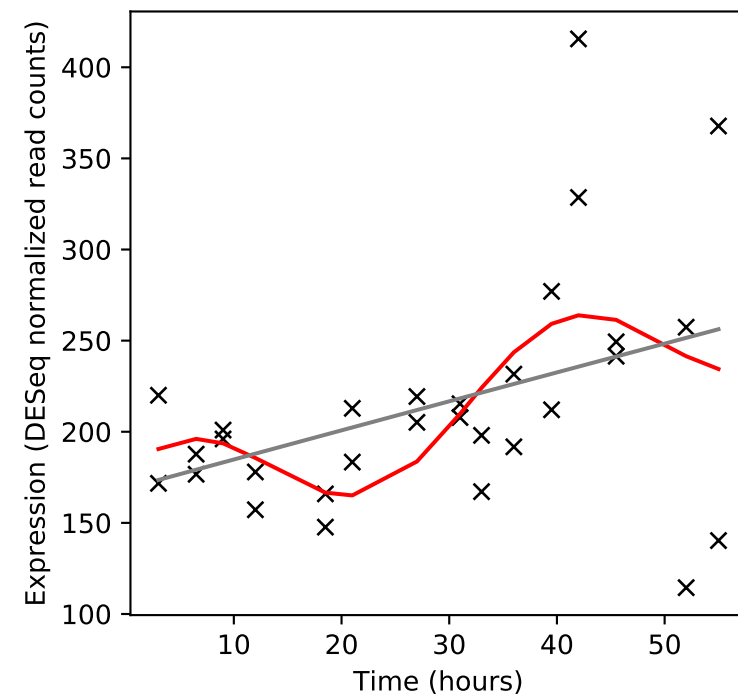
Rv3819/-



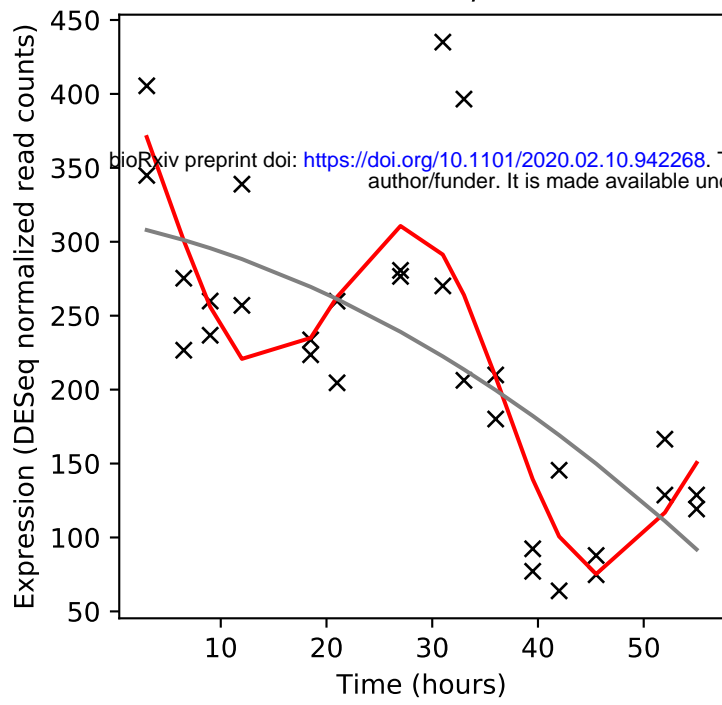
Rv3820c/papA2



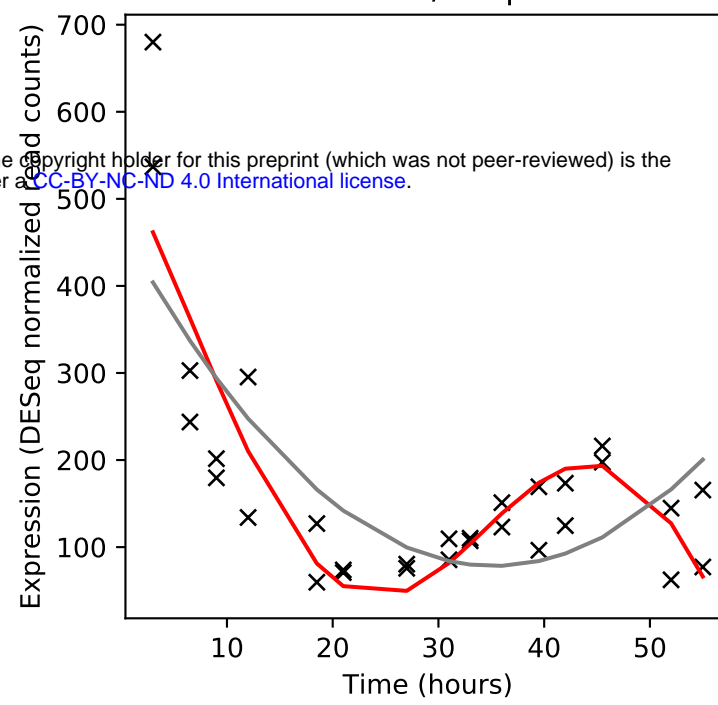
Rv3821/-



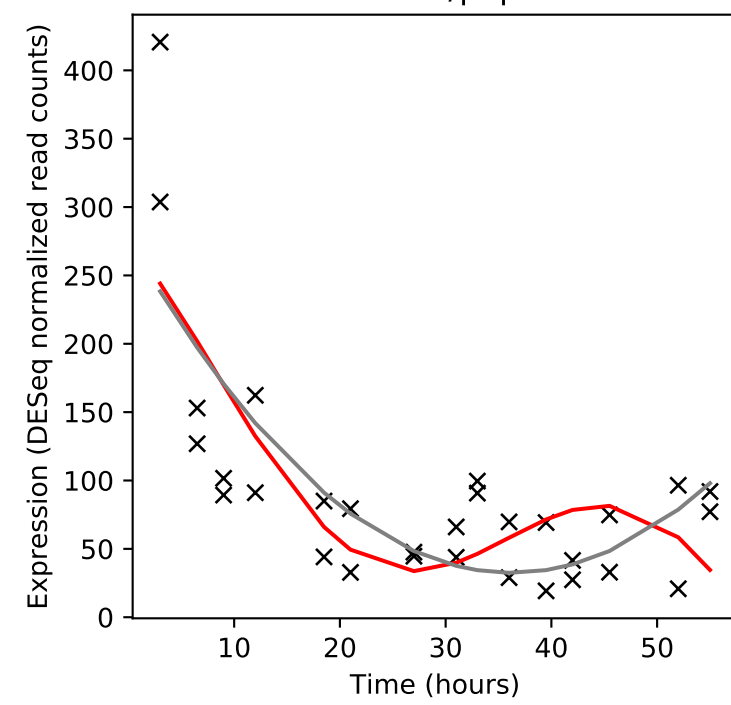
Rv3822c/-



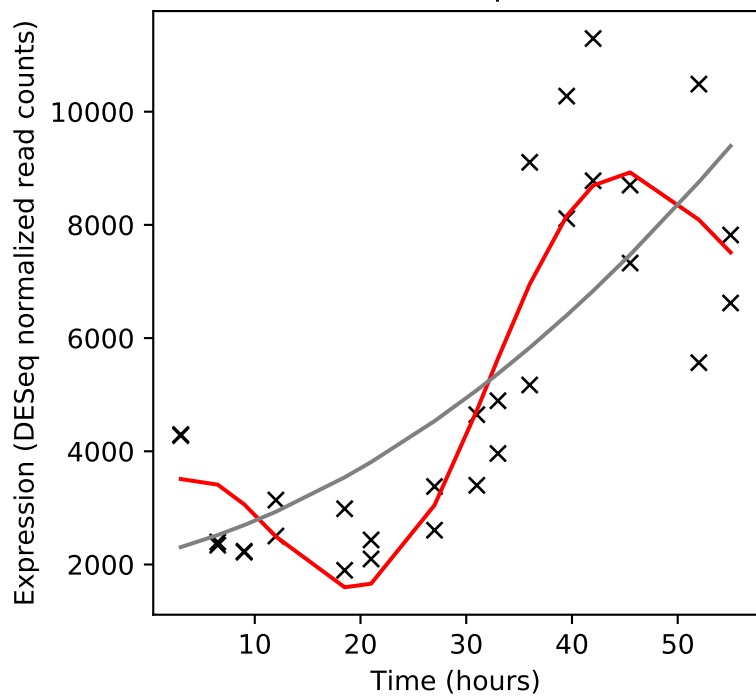
Rv3823c/mmpL8



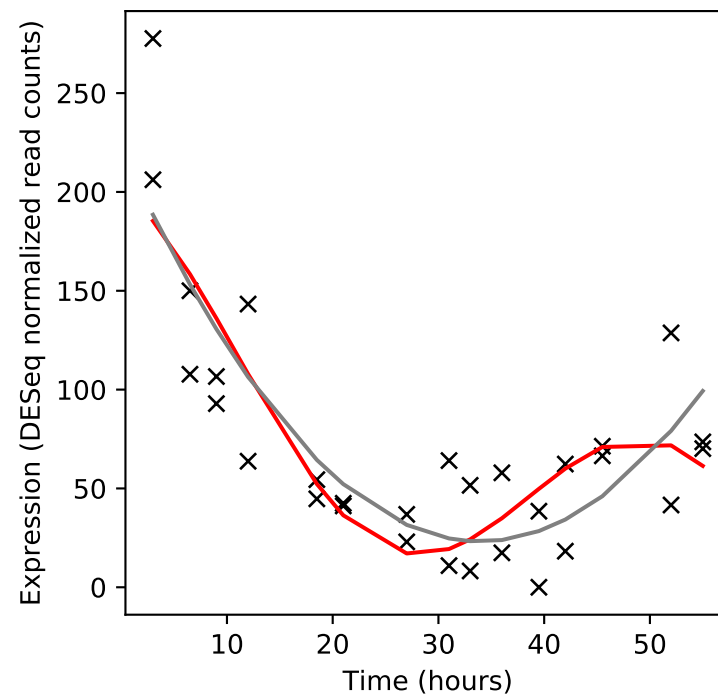
Rv3824c/papA1



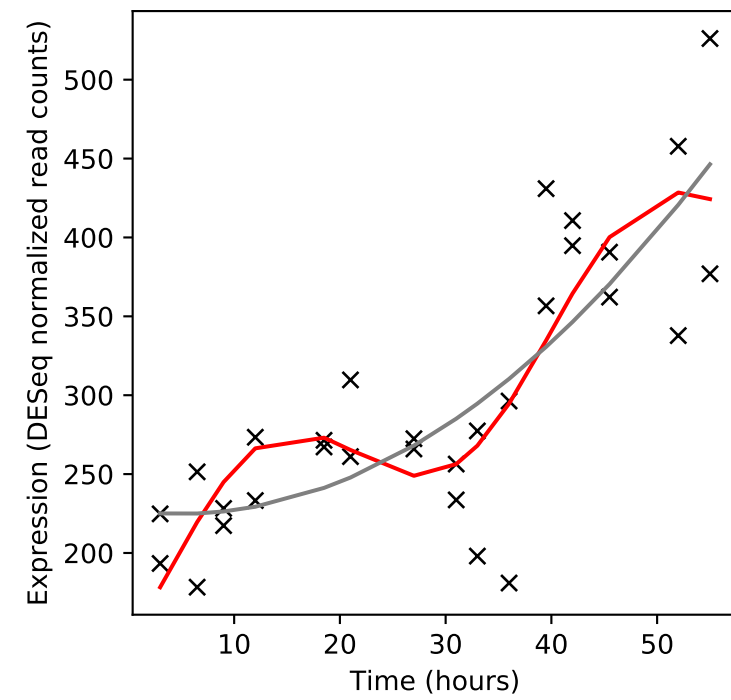
Rv3825c/pks2



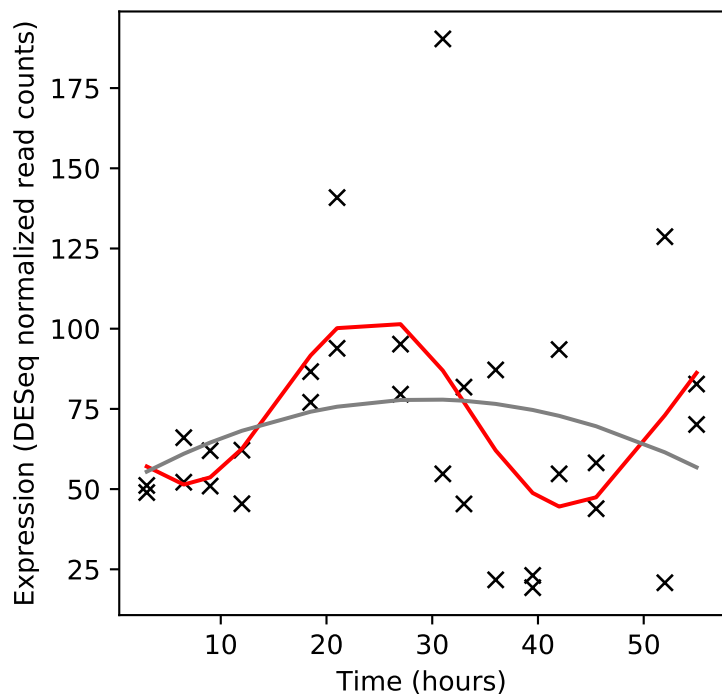
Rv3826/fadD23



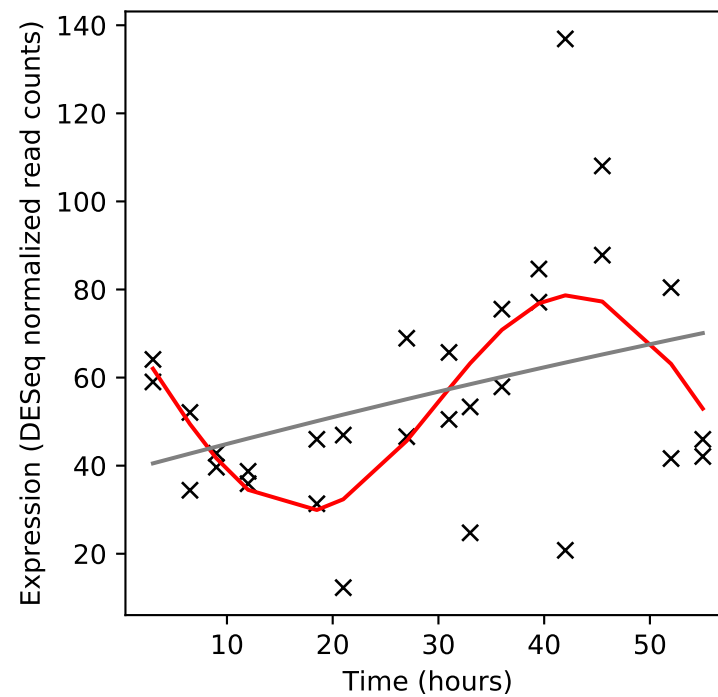
Rv3827c/-



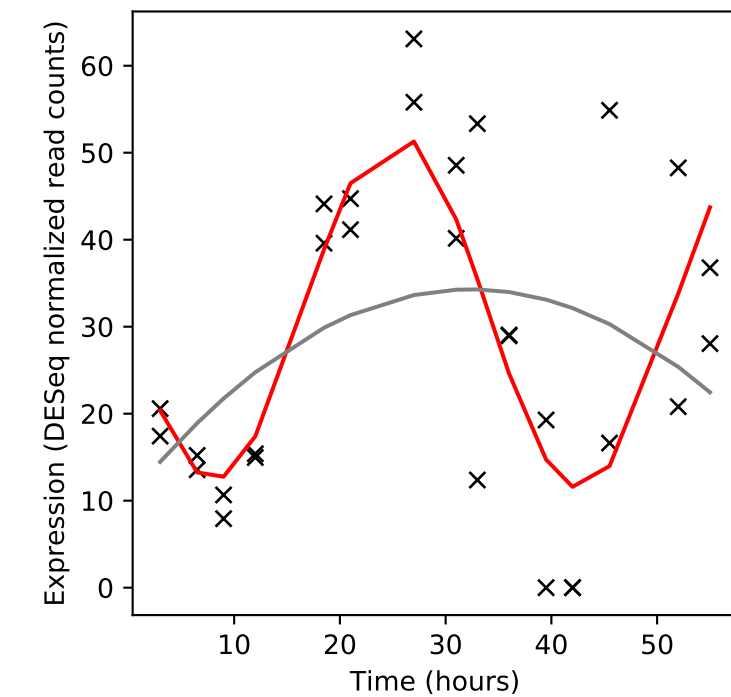
Rv3828c/-



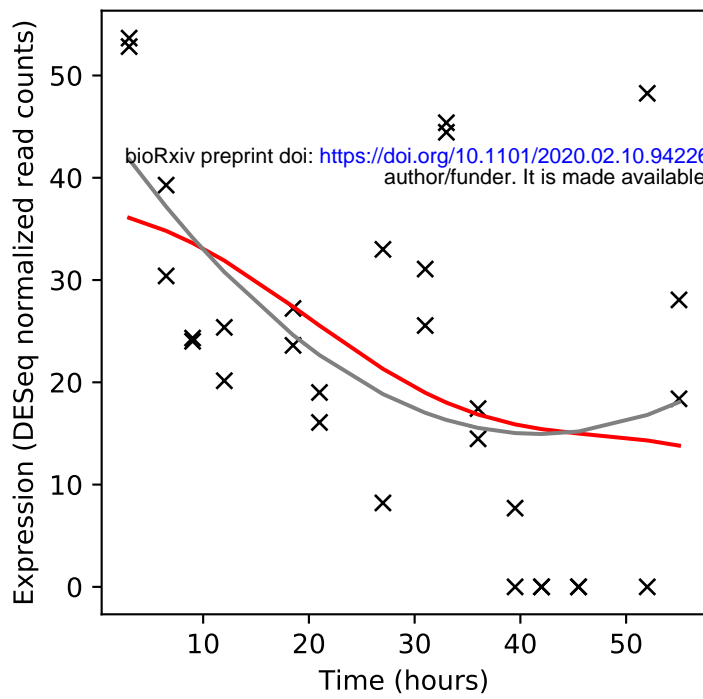
Rv3829c/-



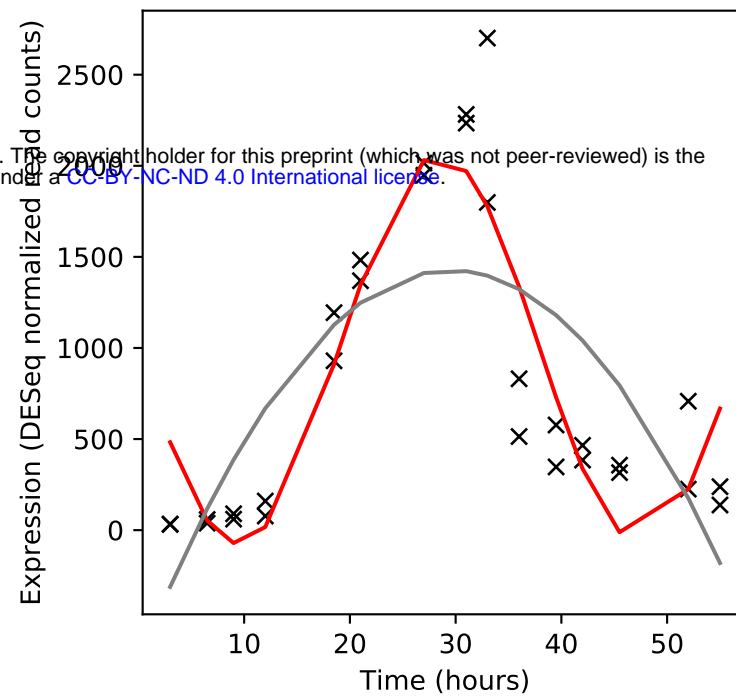
Rv3830c/-



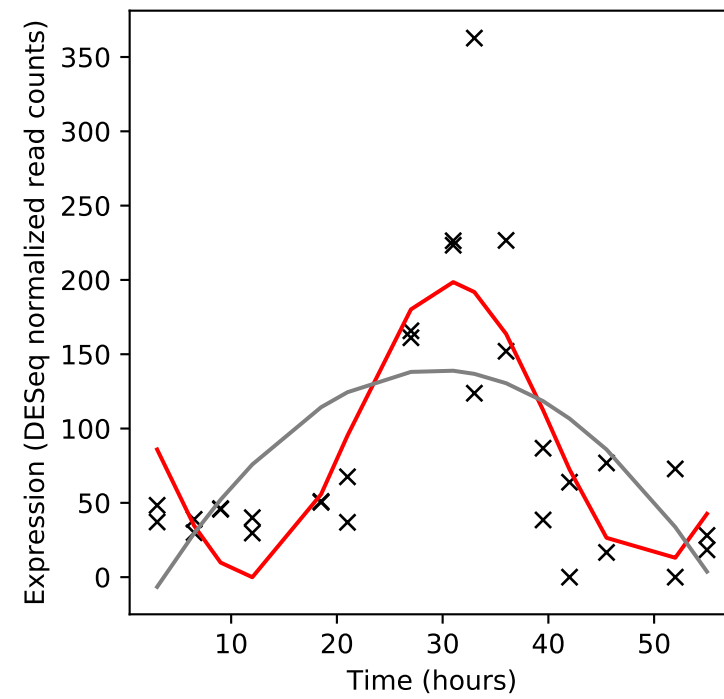
Rv3831/-



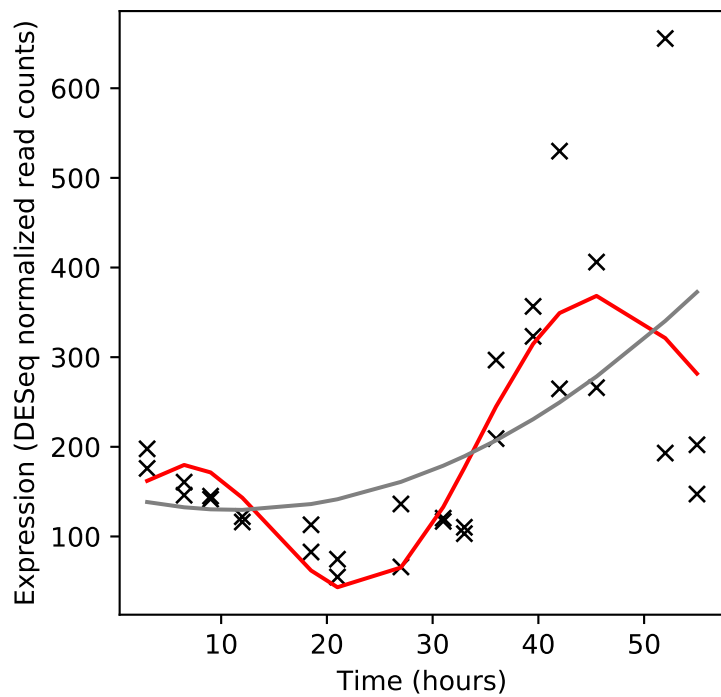
Rv3832c/-



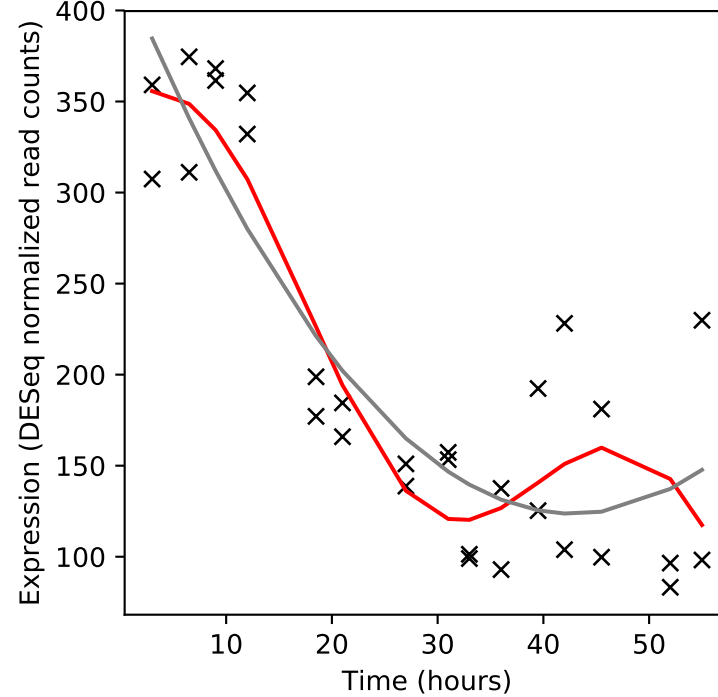
Rv3833/-



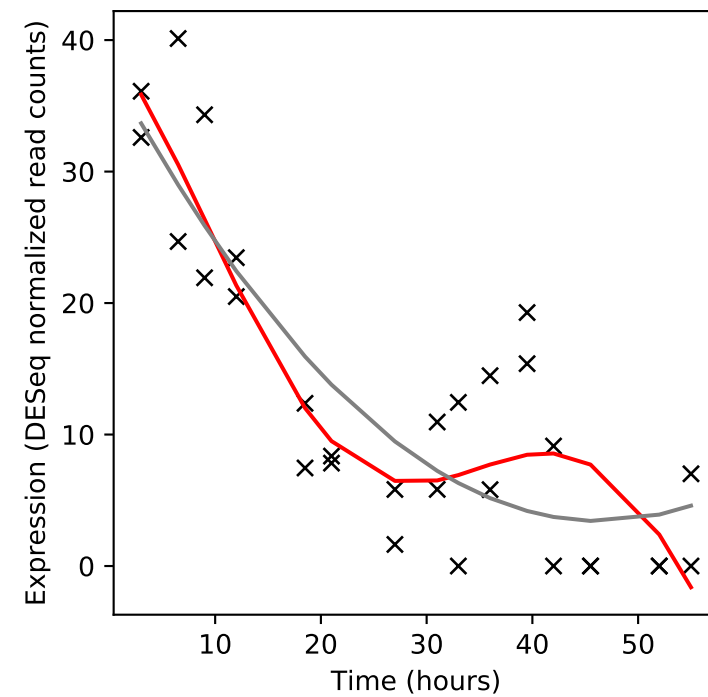
Rv3834c/serS



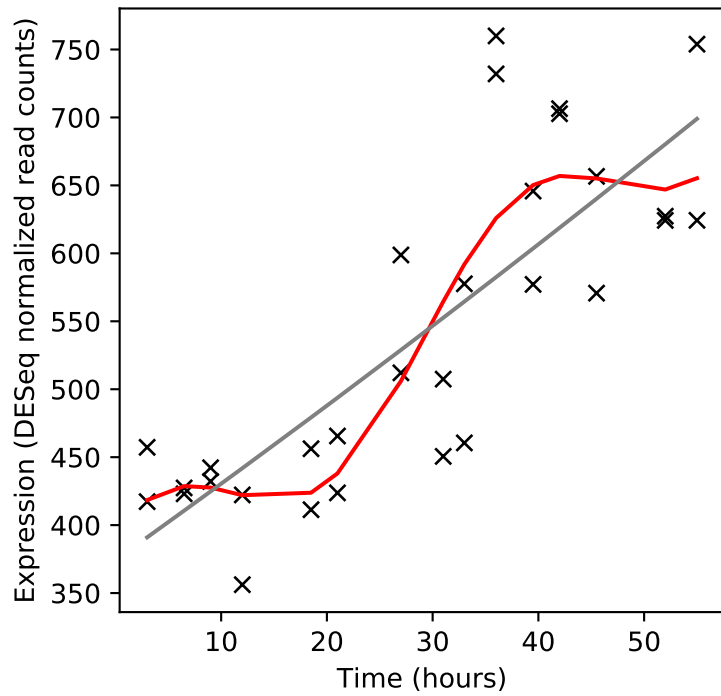
Rv3835/-



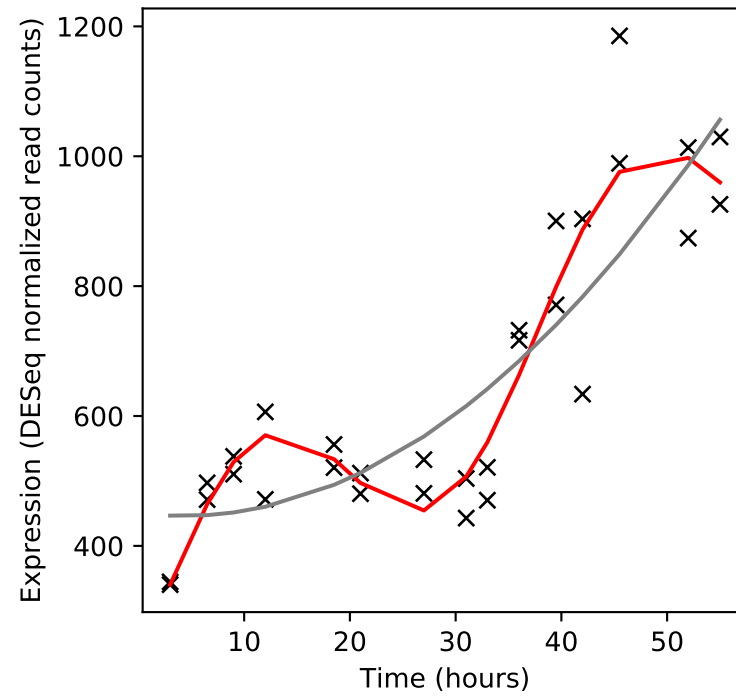
Rv3836/-



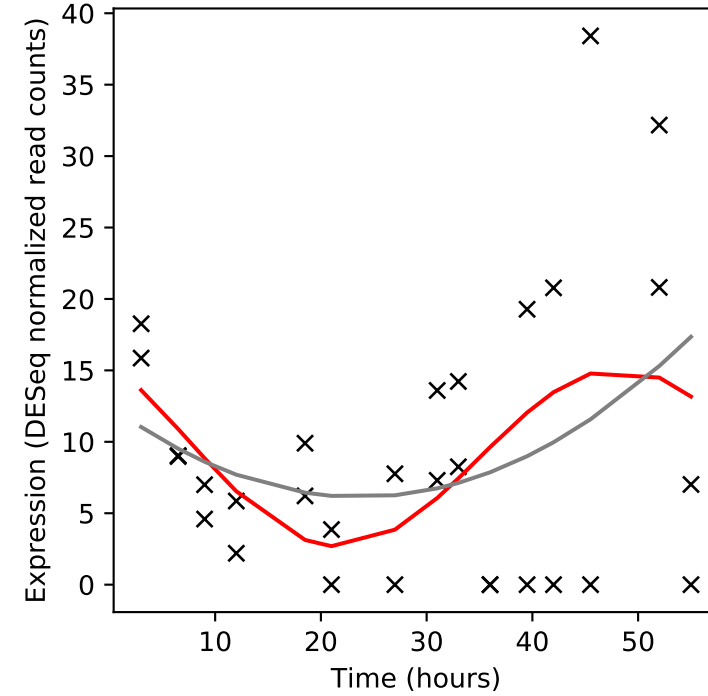
Rv3837c/-



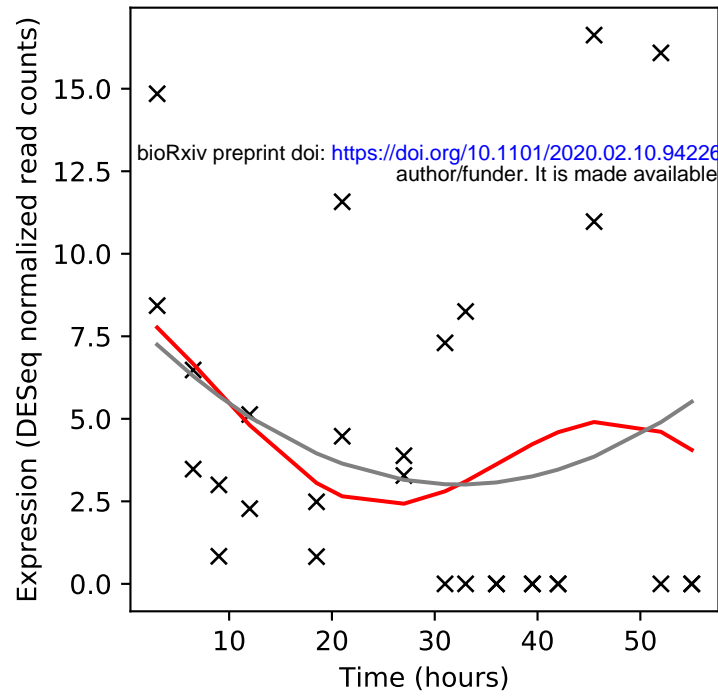
Rv3838c/pheA



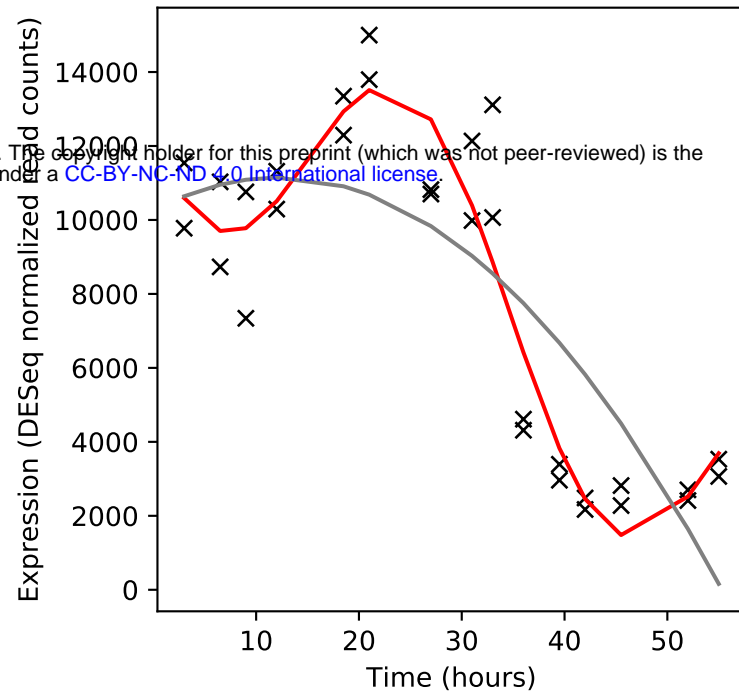
Rv3839/-



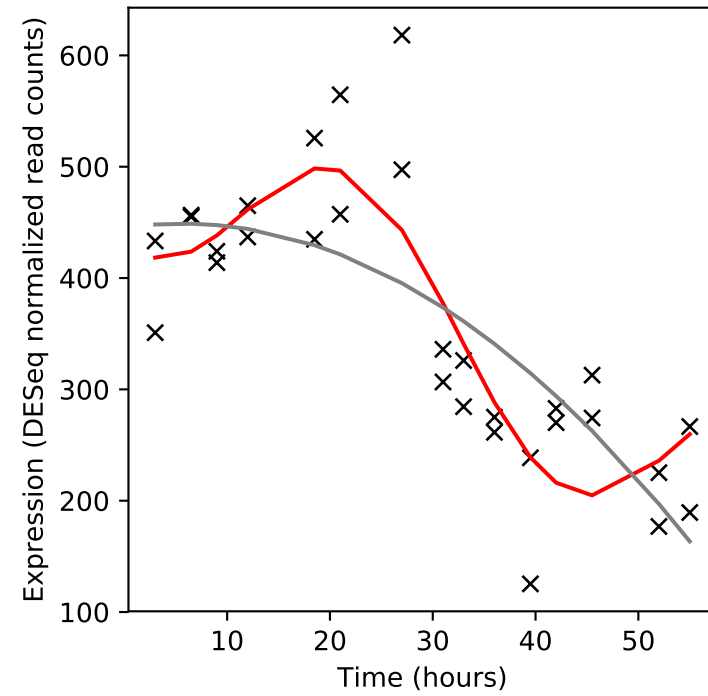
Rv3840/-



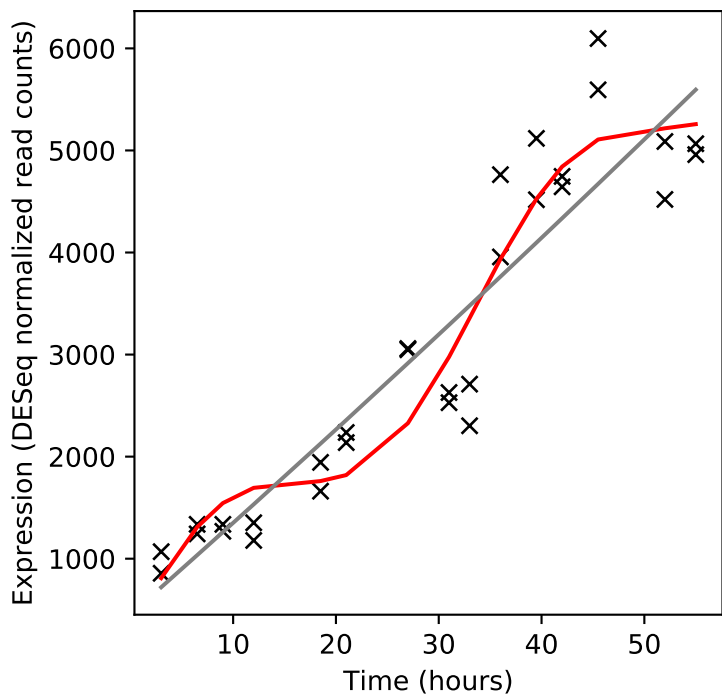
Rv3841/bfrB



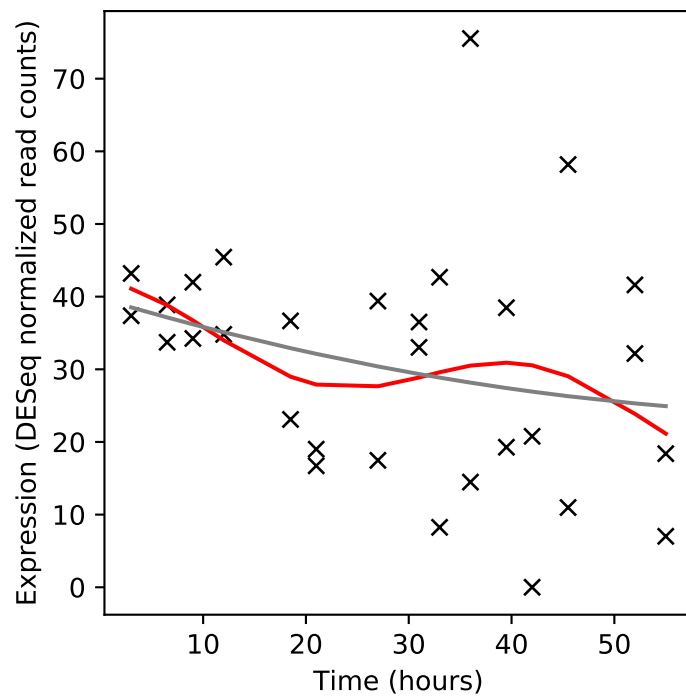
Rv3842c/glpQ1



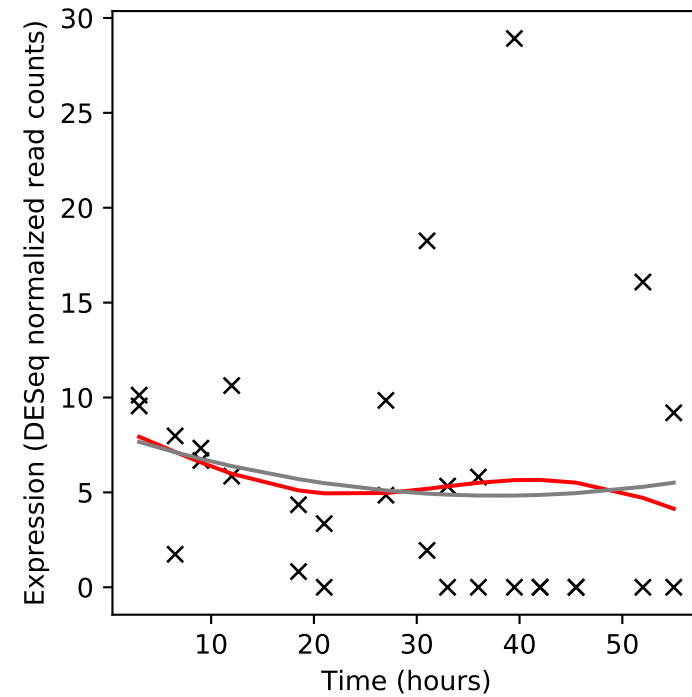
Rv3843c/-



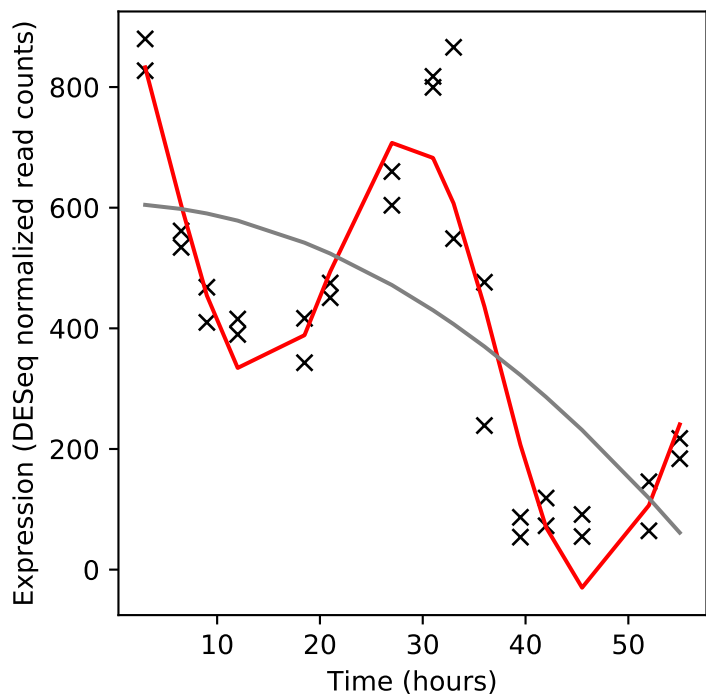
Rv3844/-



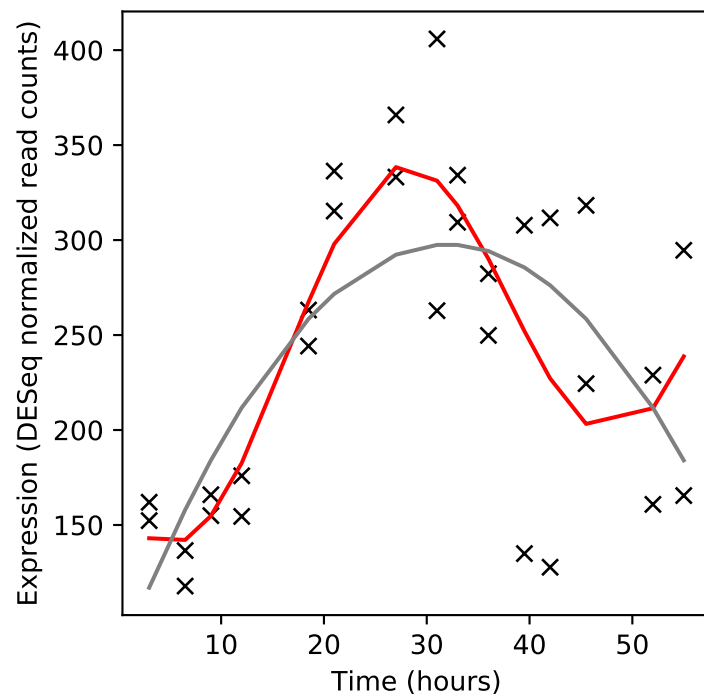
Rv3845/-



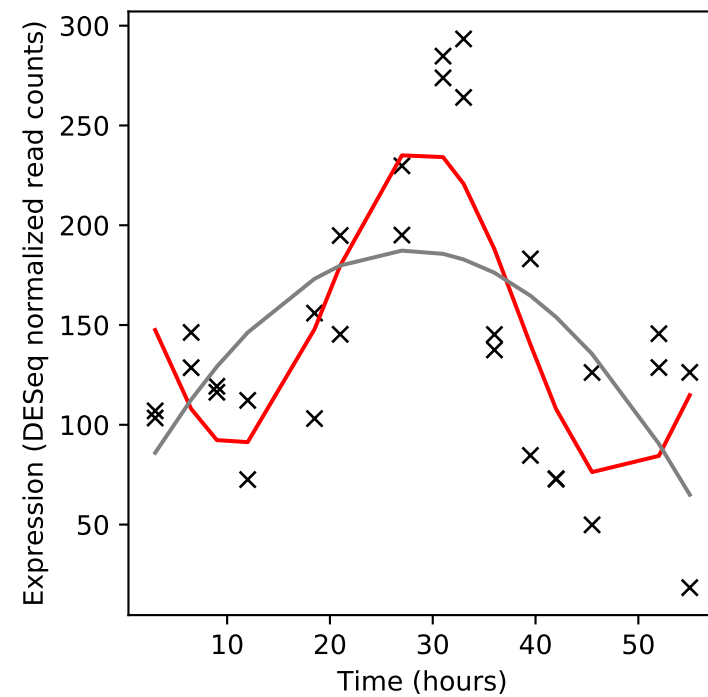
Rv3846/sodA



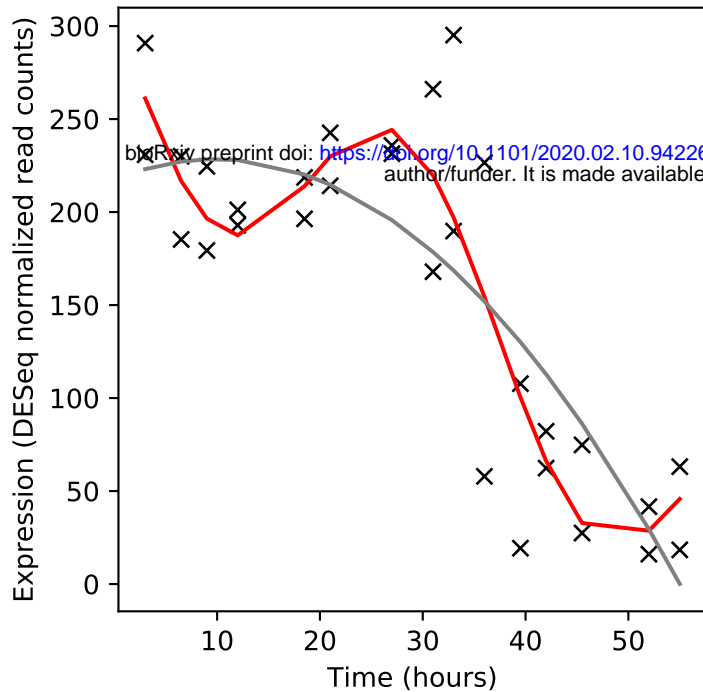
Rv3847/-



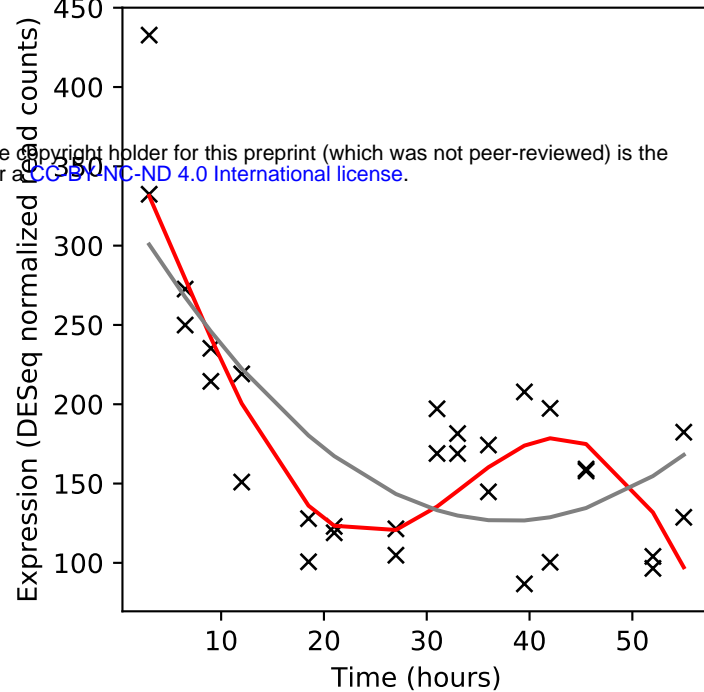
Rv3848/-



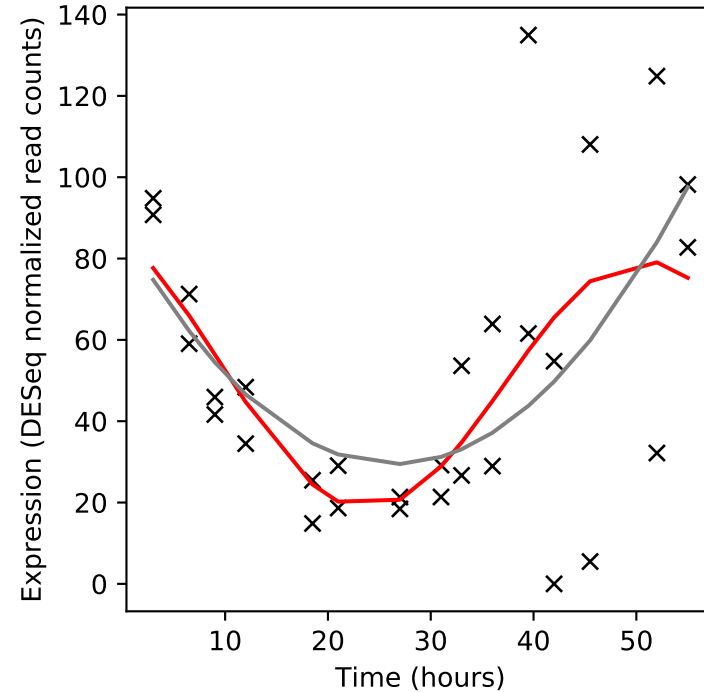
Rv3849/espR



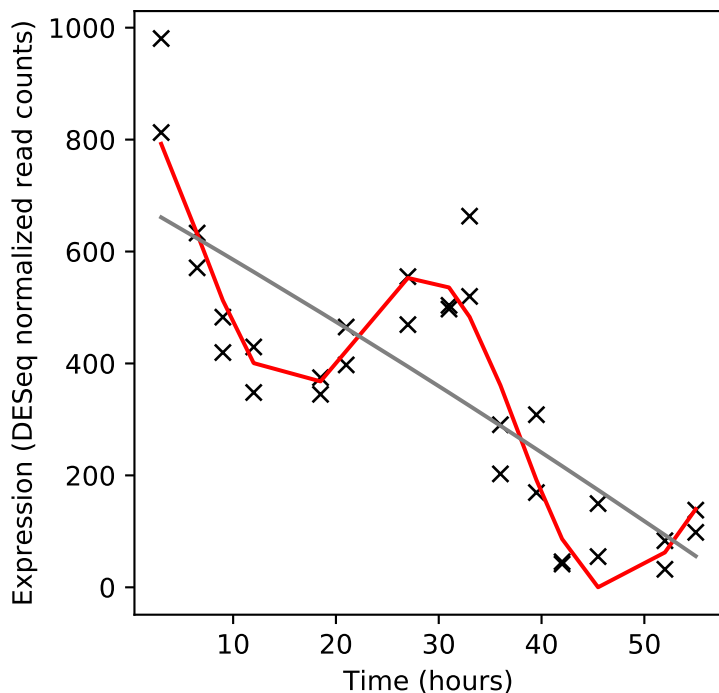
Rv3850/-



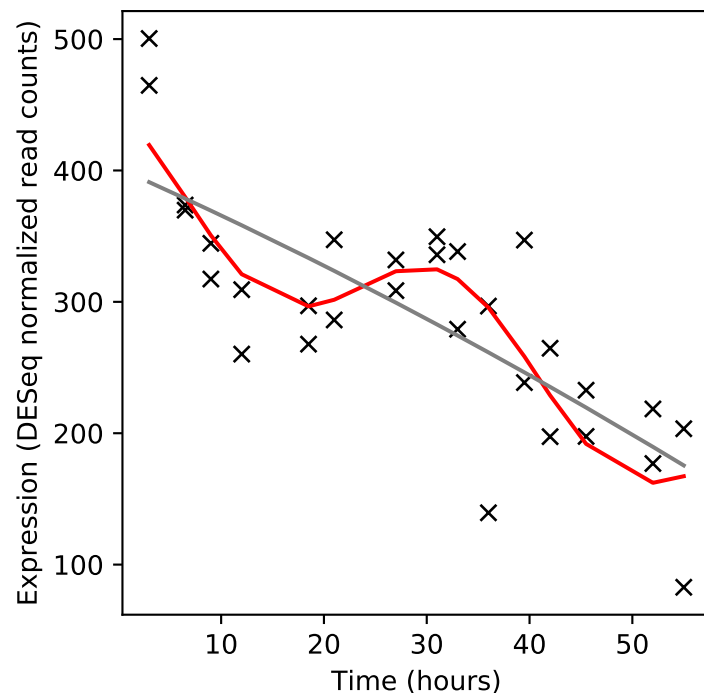
Rv3851/-



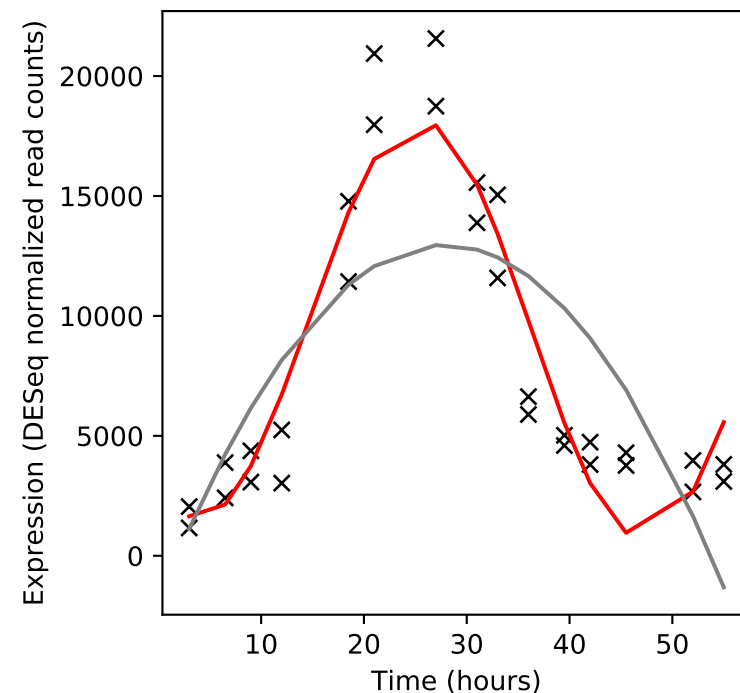
Rv3852/hns



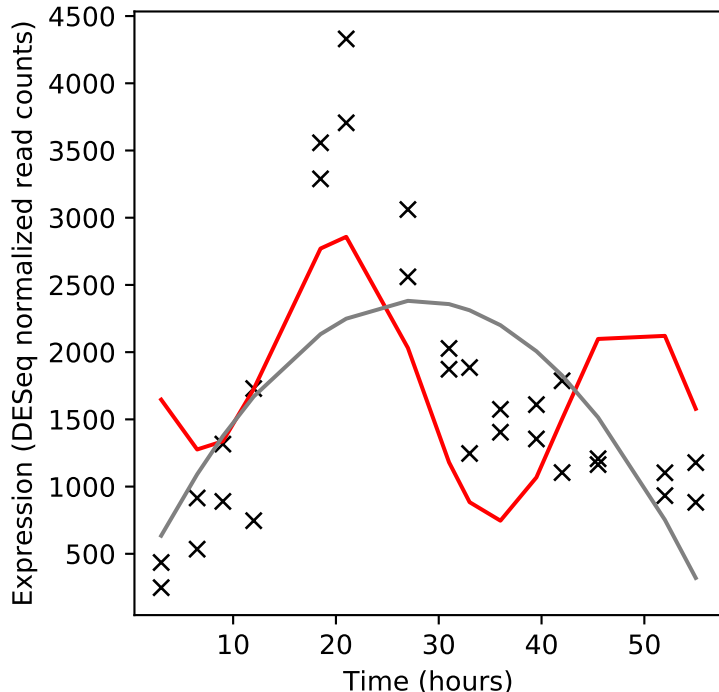
Rv3853/rraA



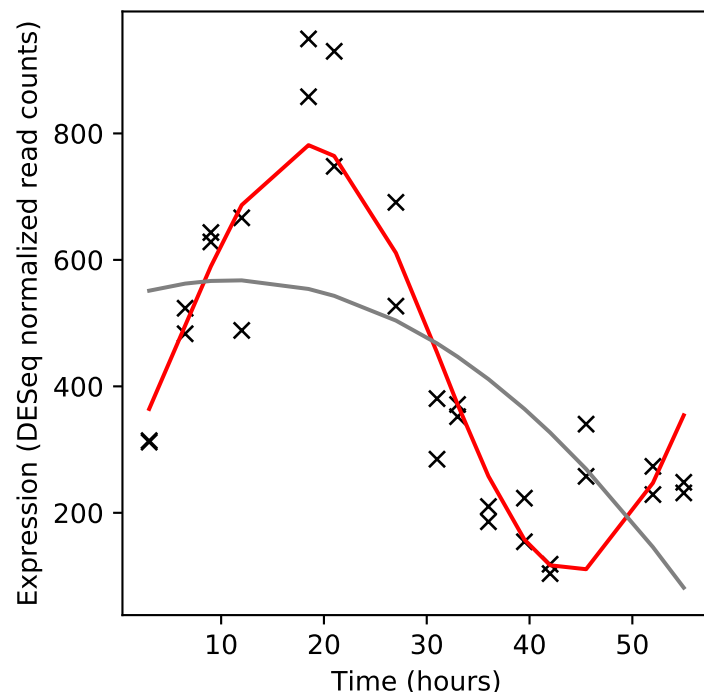
Rv3854c/ethA



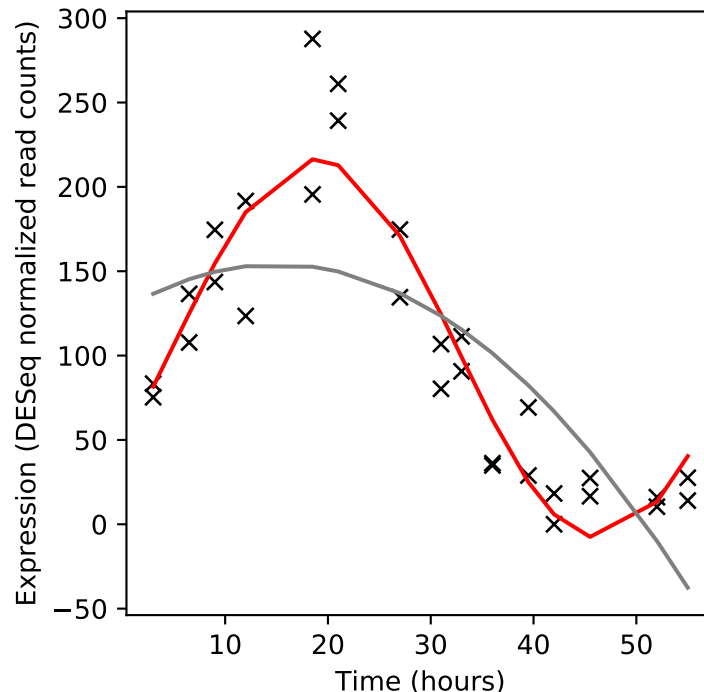
Rv3855/ethR



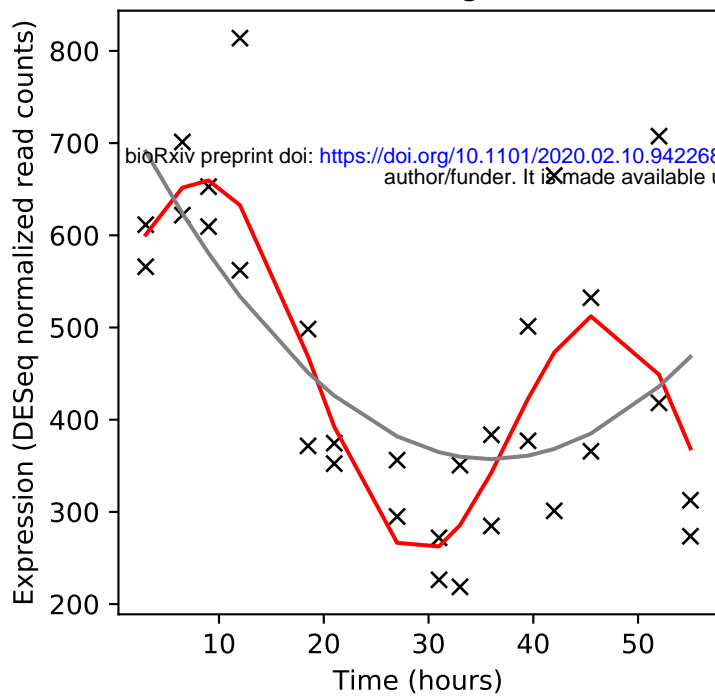
Rv3856c/-



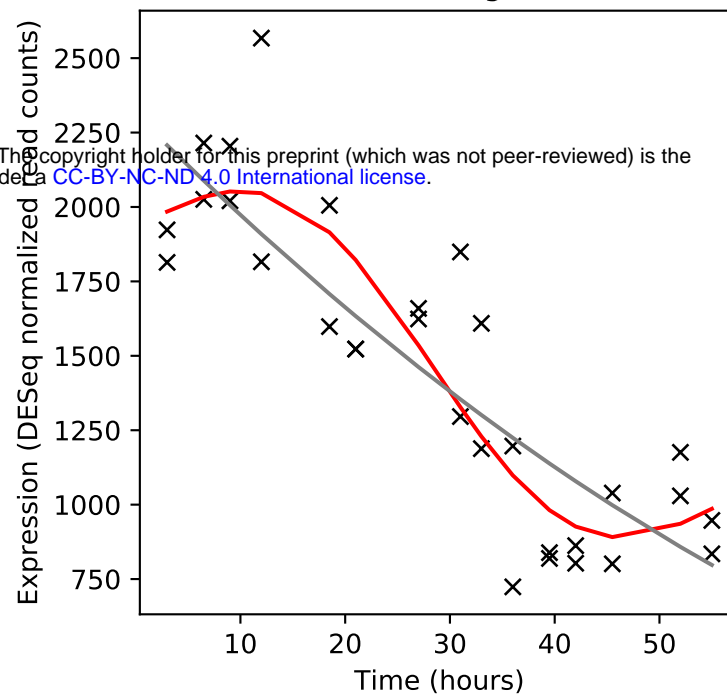
Rv3857c/-



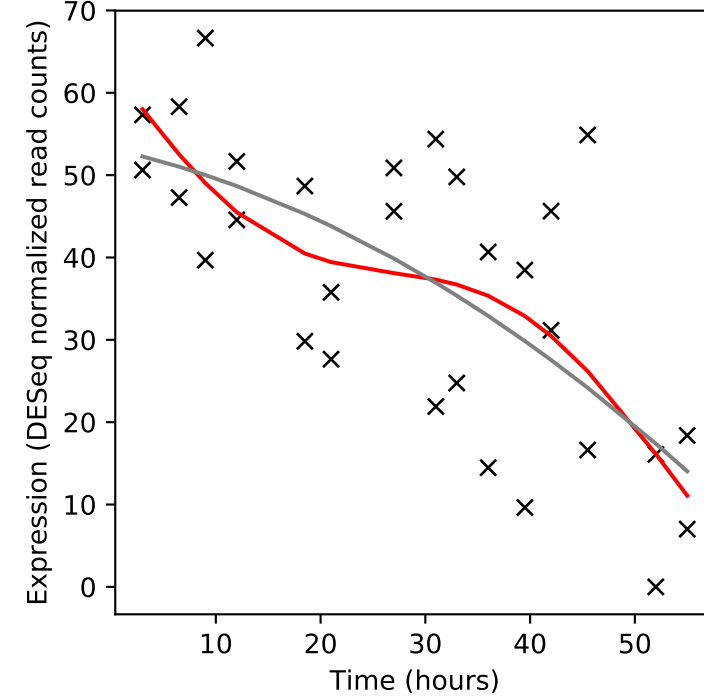
Rv3858c/gltD



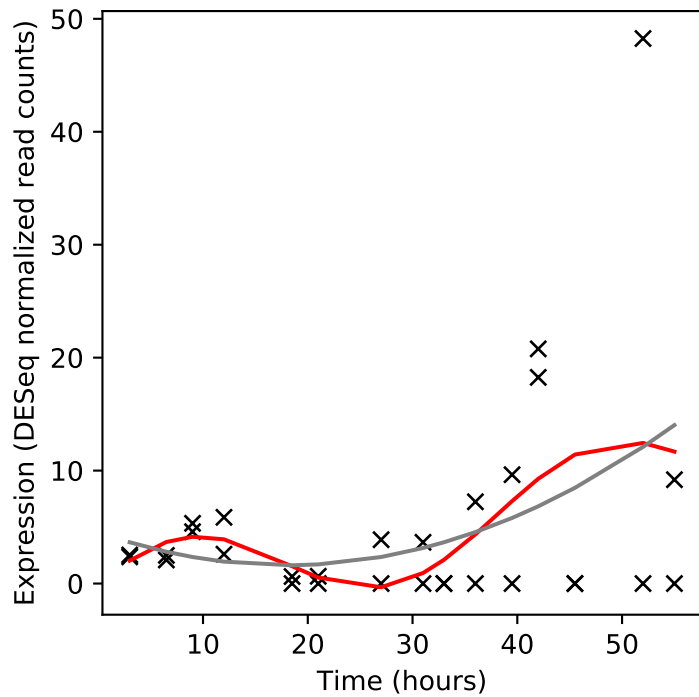
Rv3859c/gltB



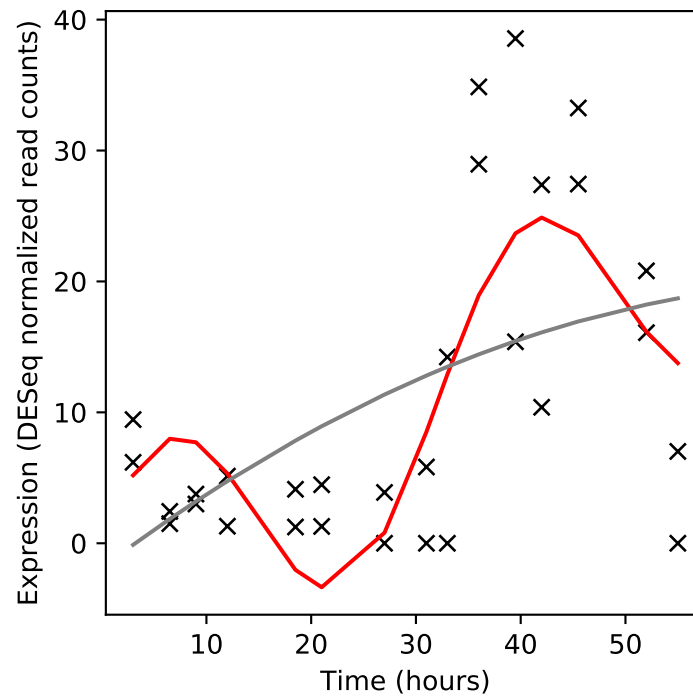
Rv3860/-



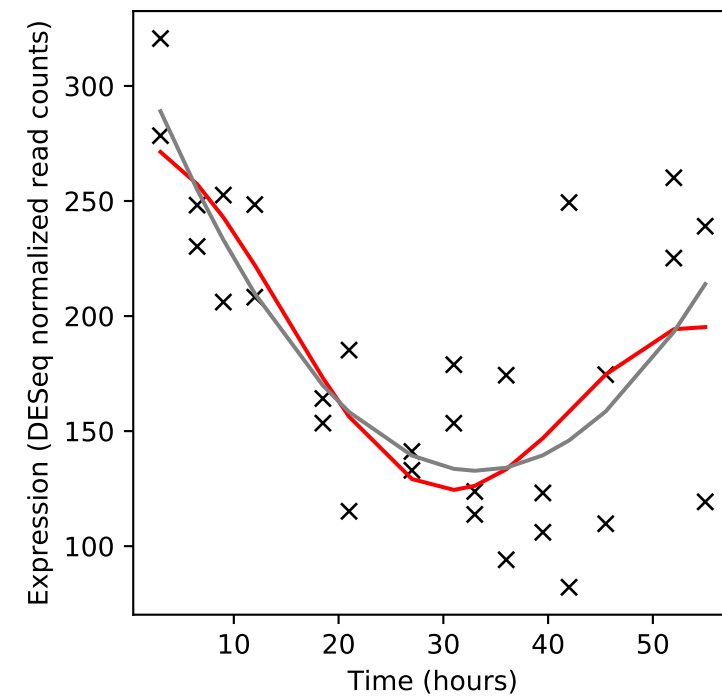
Rv3861/-



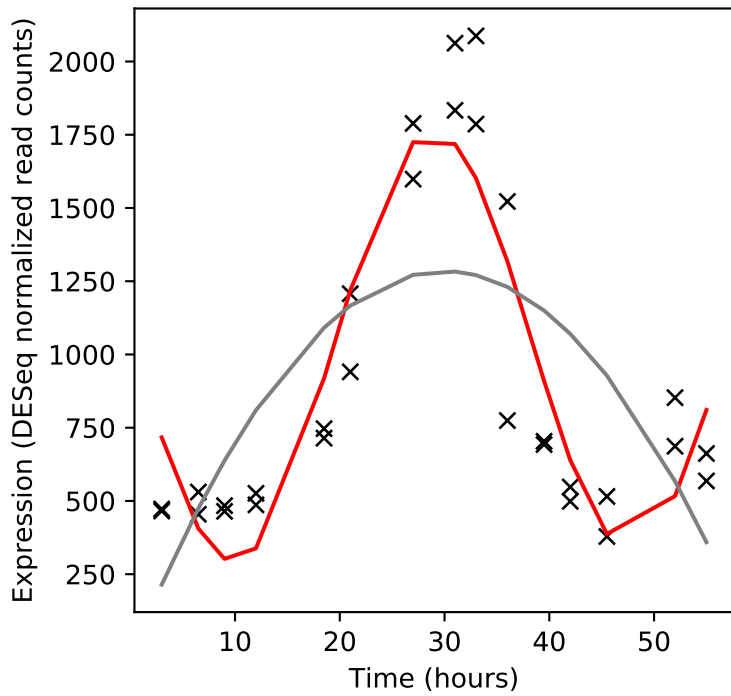
Rv3862c/whiB6



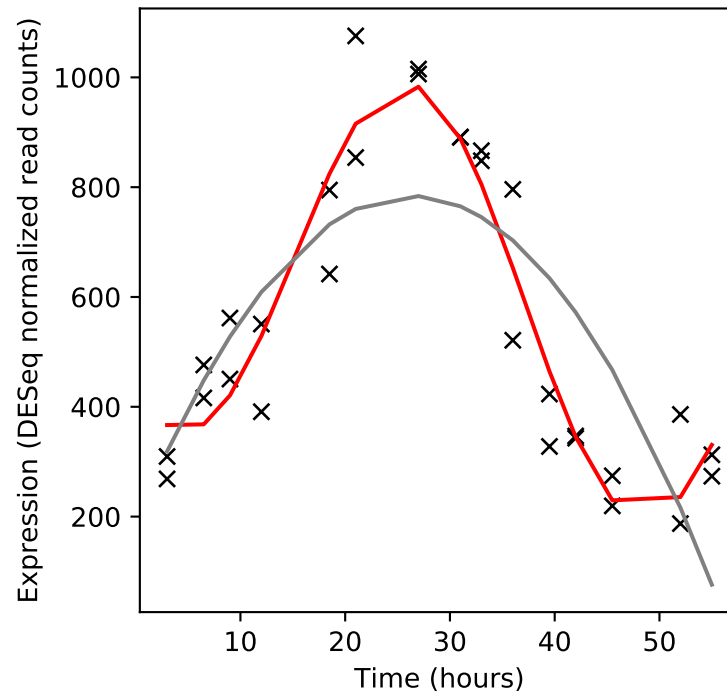
Rv3863/-



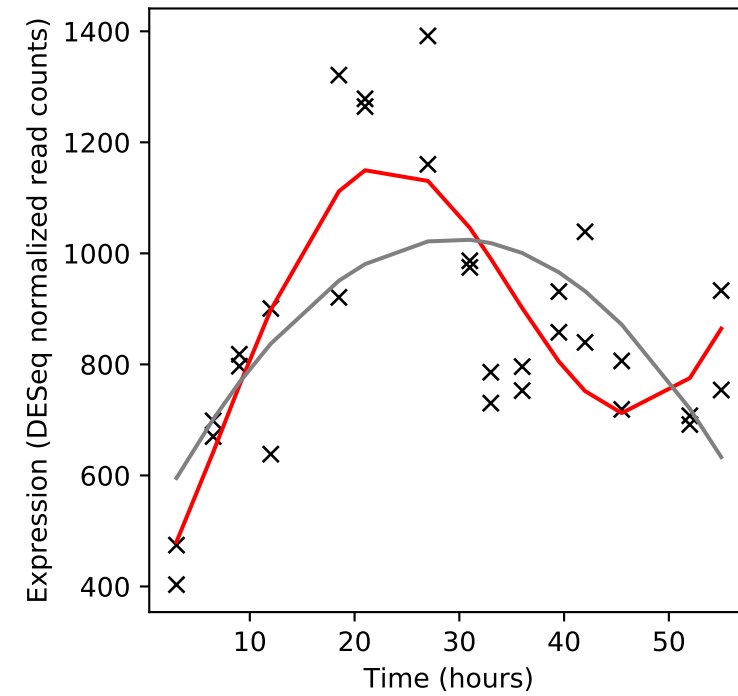
Rv3864/espE



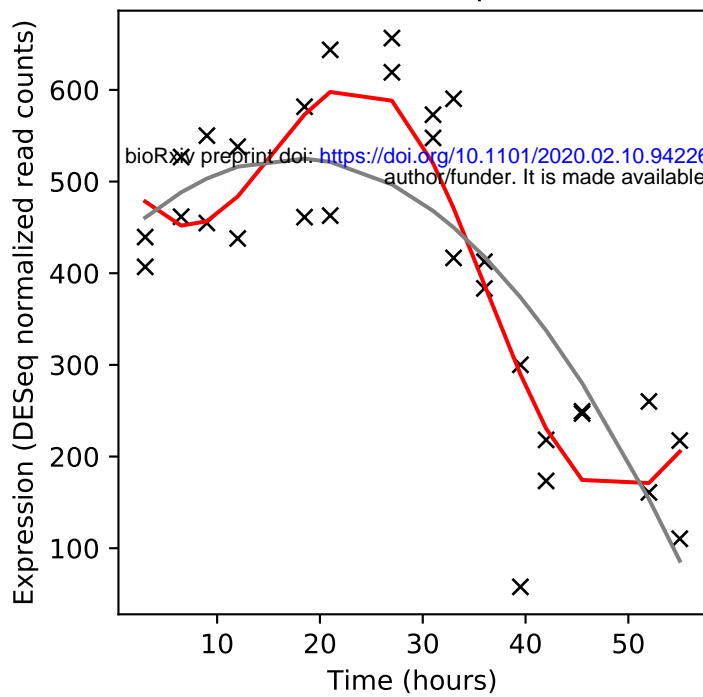
Rv3865/espF



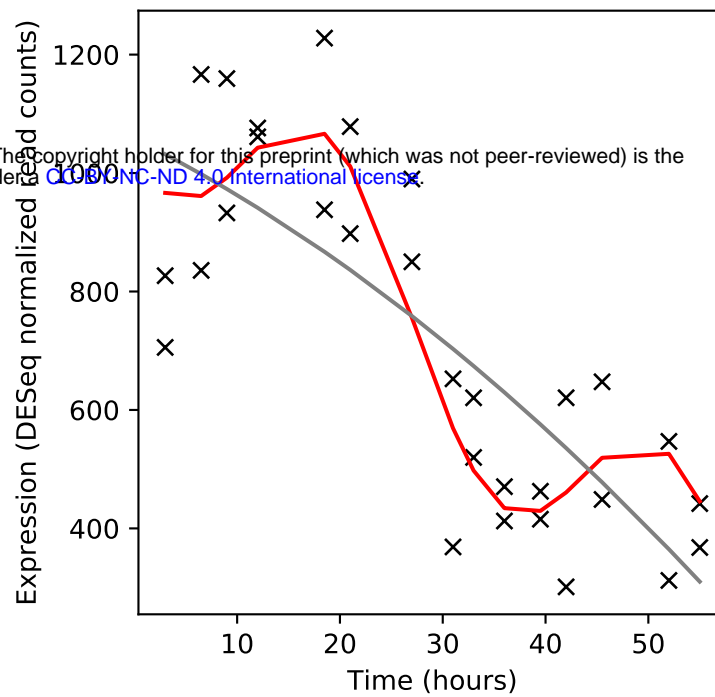
Rv3866/espG1



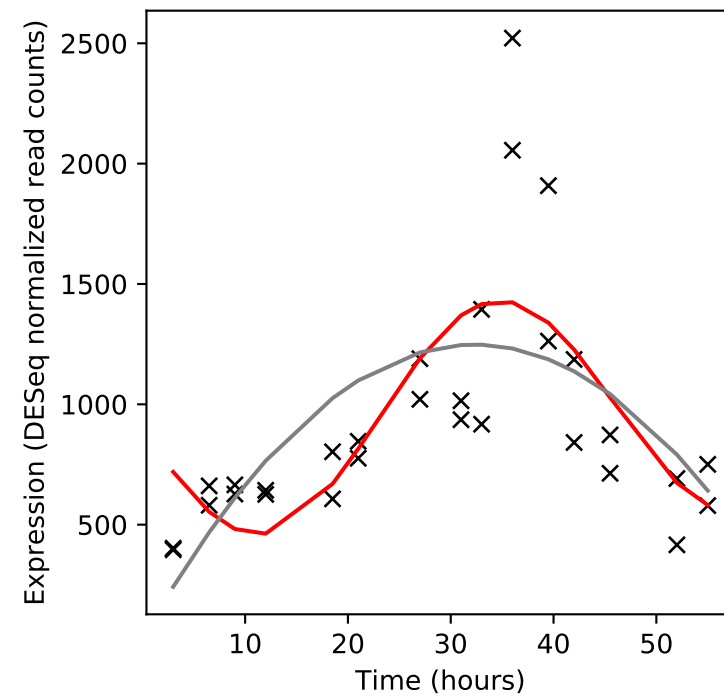
Rv3867/espH



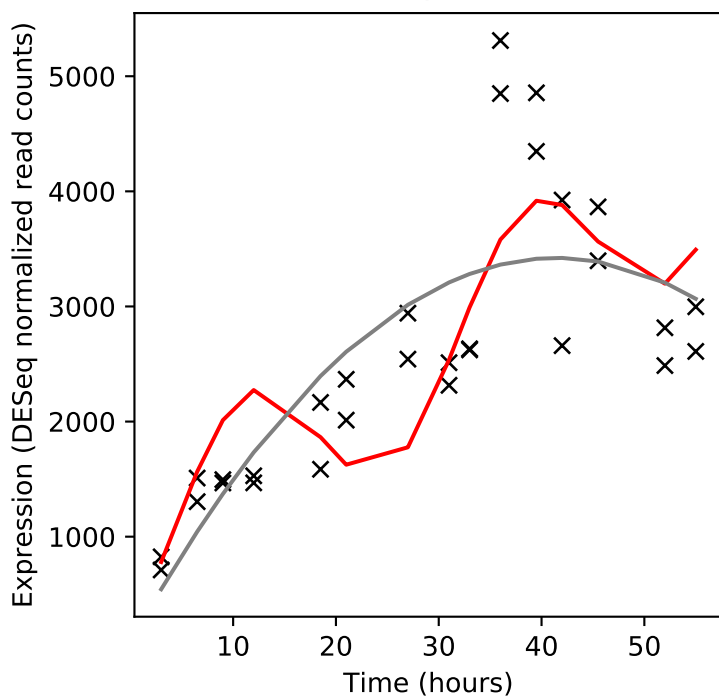
Rv3868/eccA1



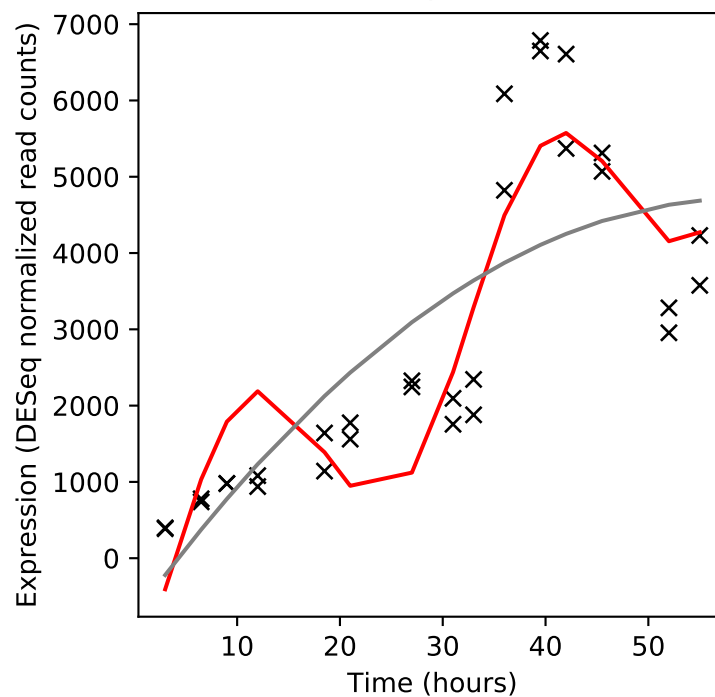
Rv3869/eccB1



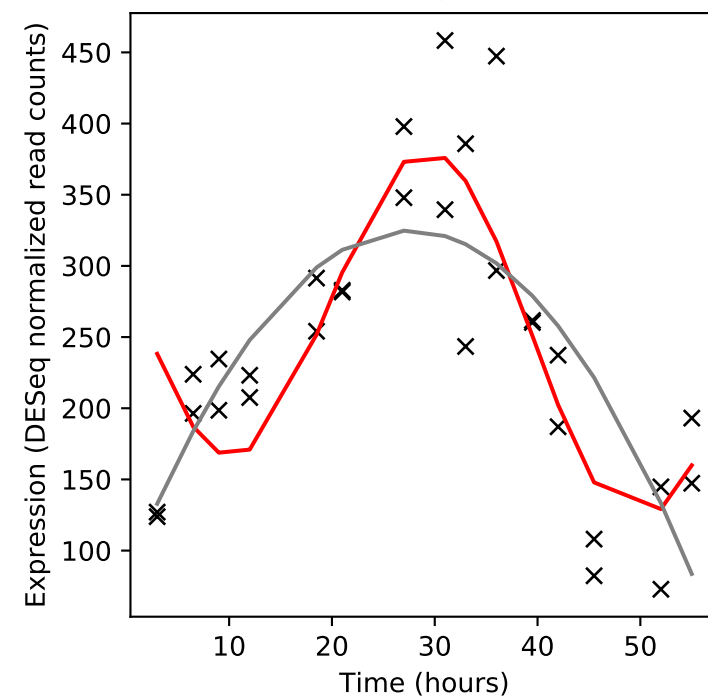
Rv3870/eccCa1



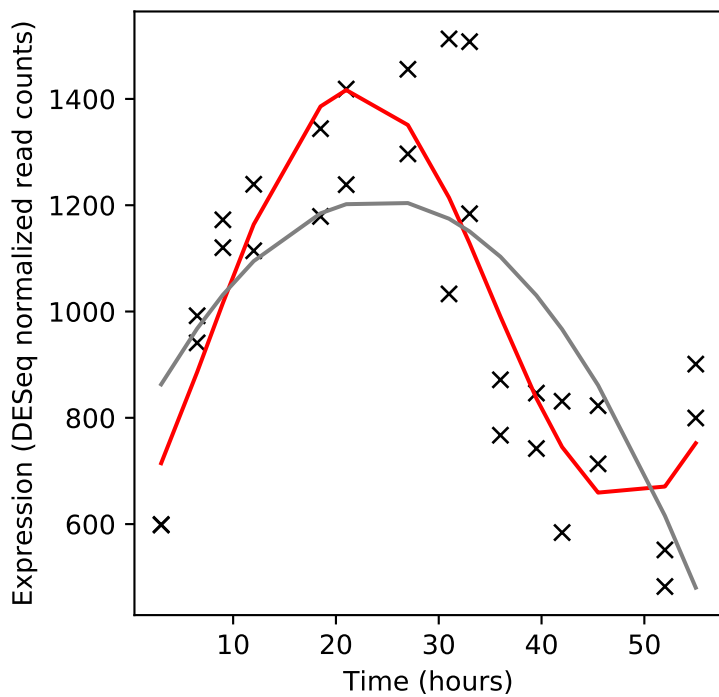
Rv3871/eccCb1



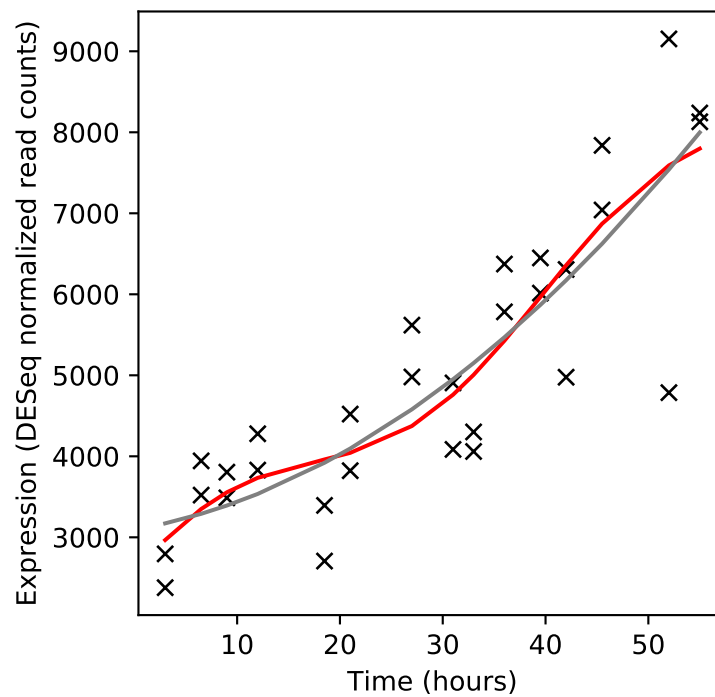
Rv3872/PE35



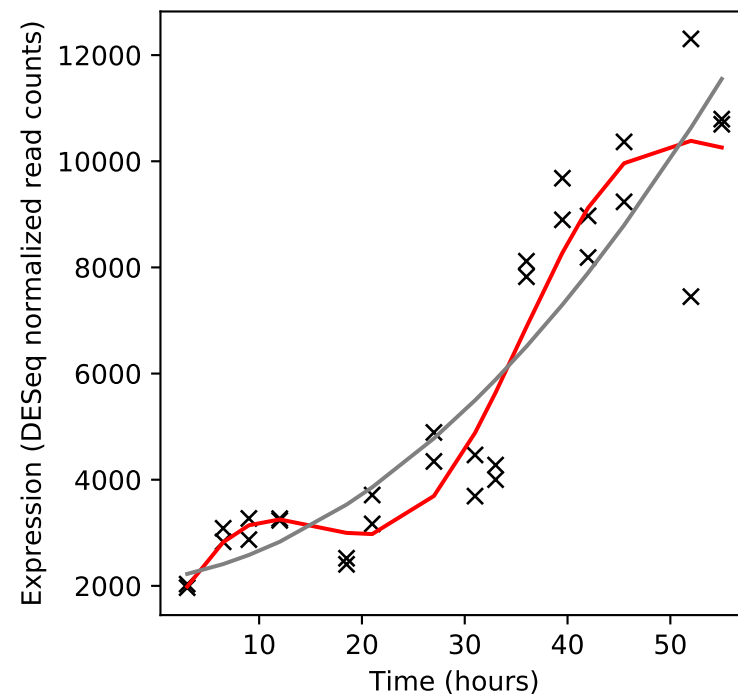
Rv3873/PPE68



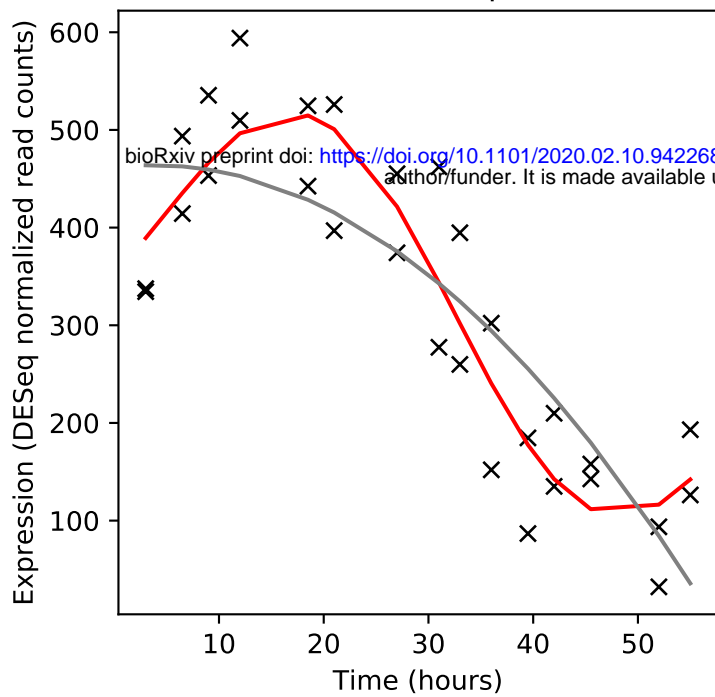
Rv3874/esxB



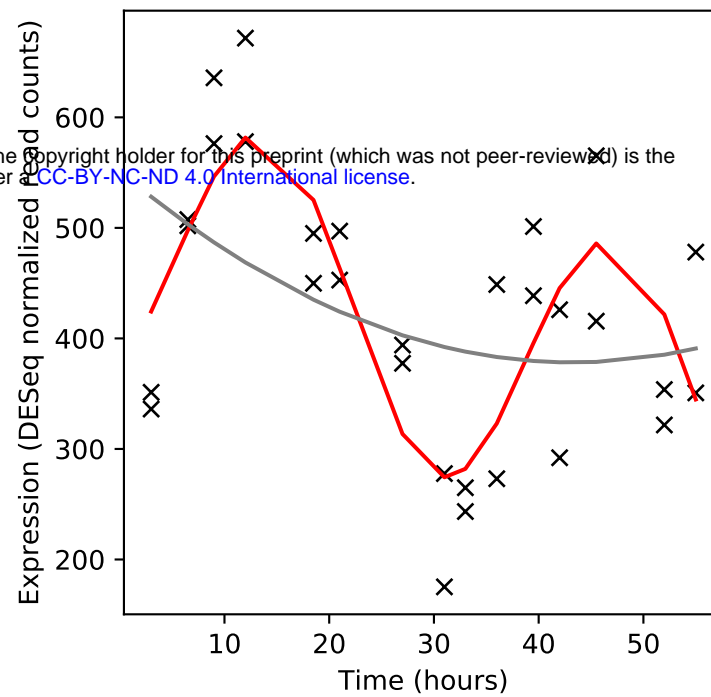
Rv3875/esxA



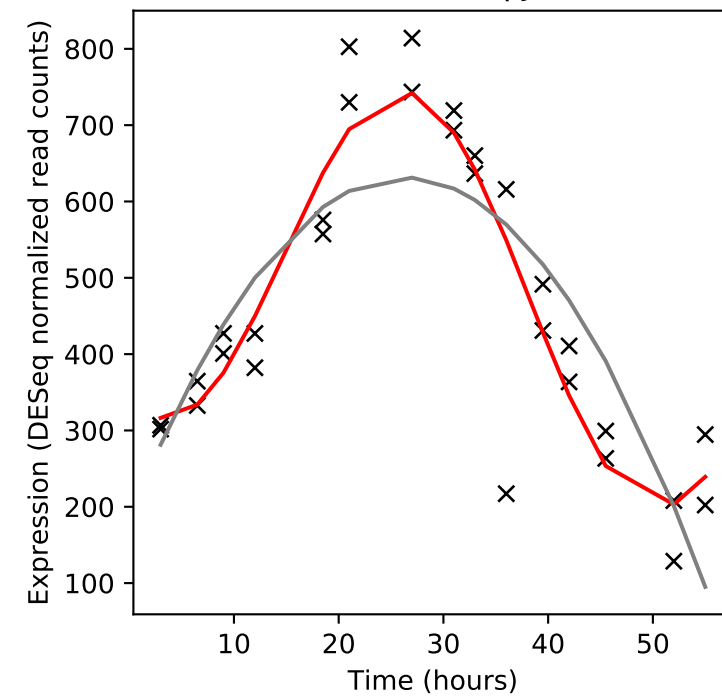
Rv3876/espl



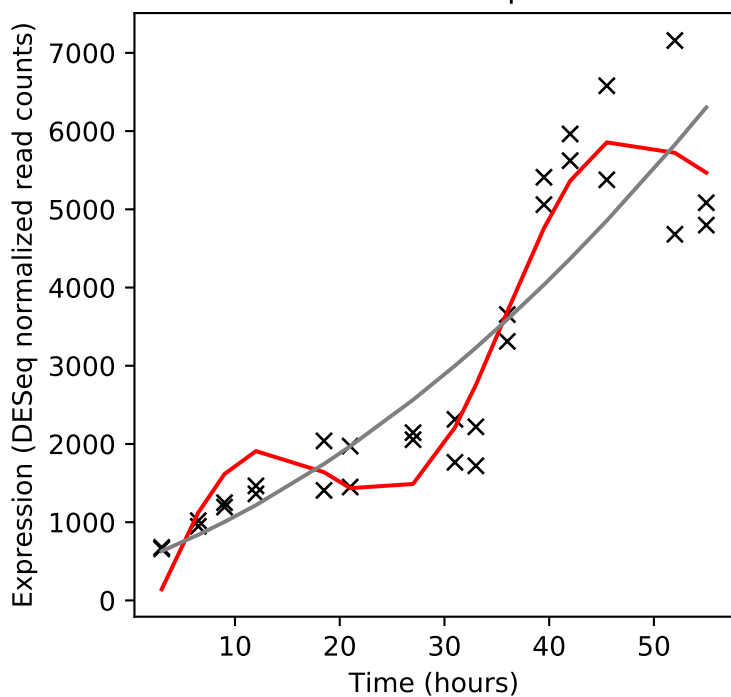
Rv3877/eccD1



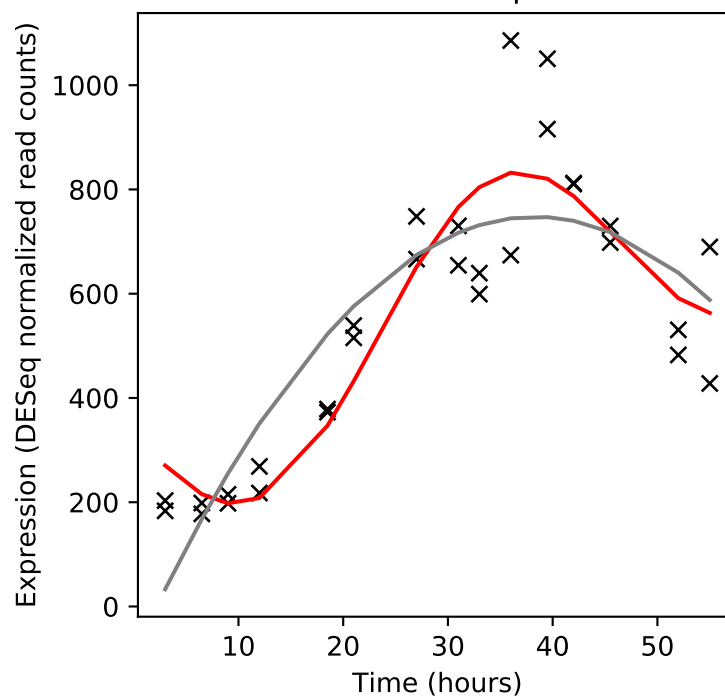
Rv3878/espl



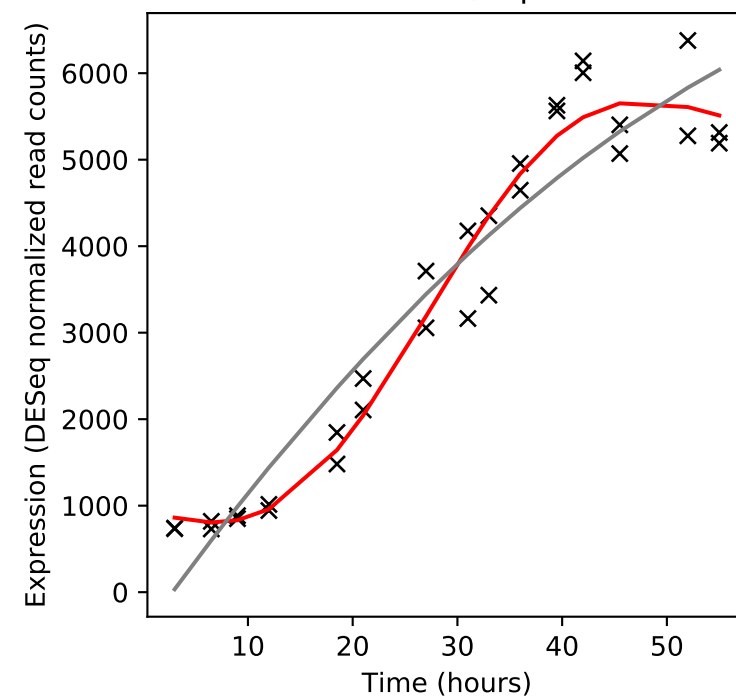
Rv3879c/espK



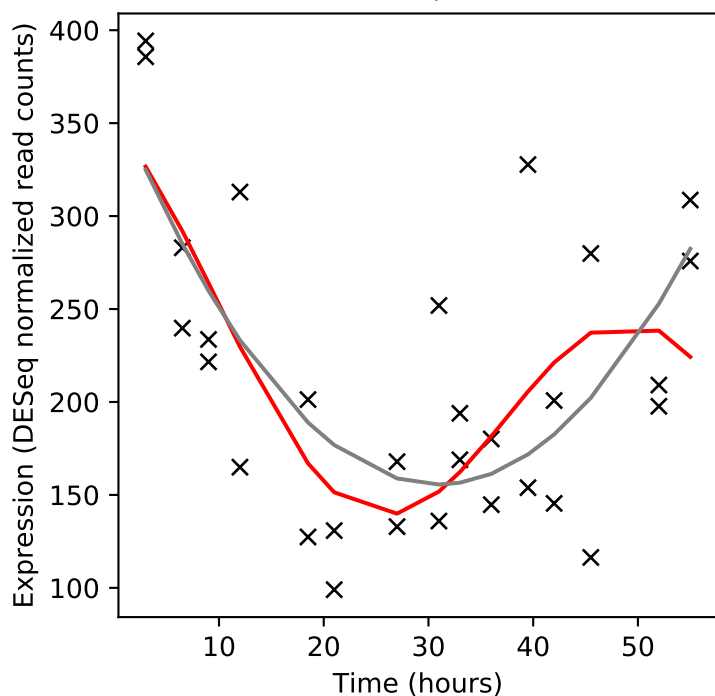
Rv3880c/espl



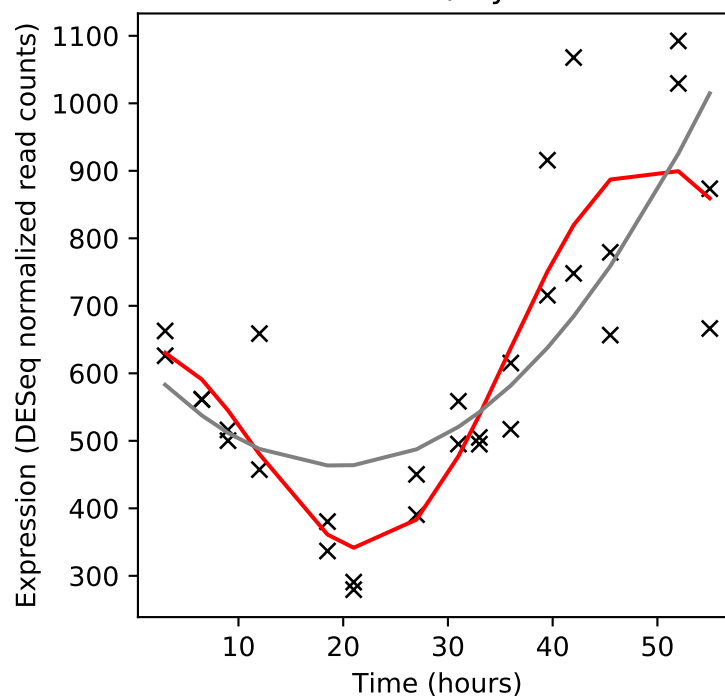
Rv3881c/espB



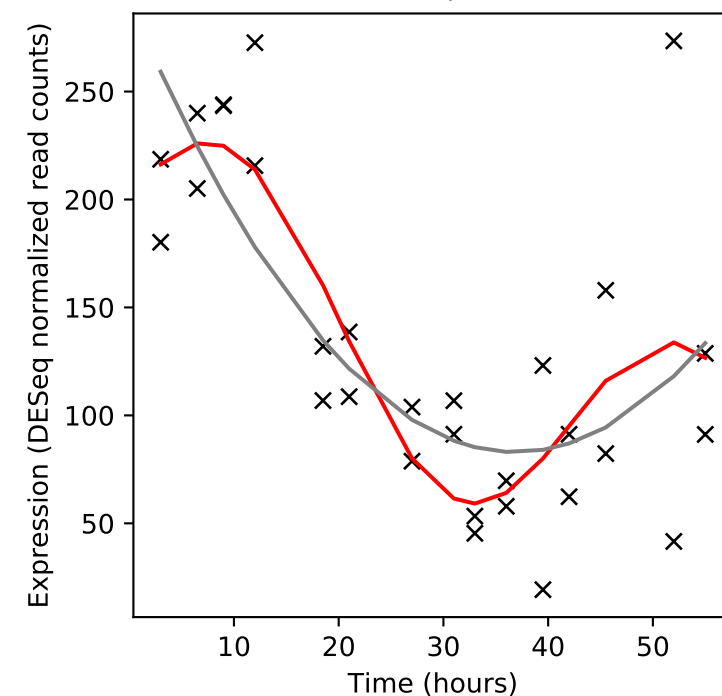
Rv3882c/eccE1



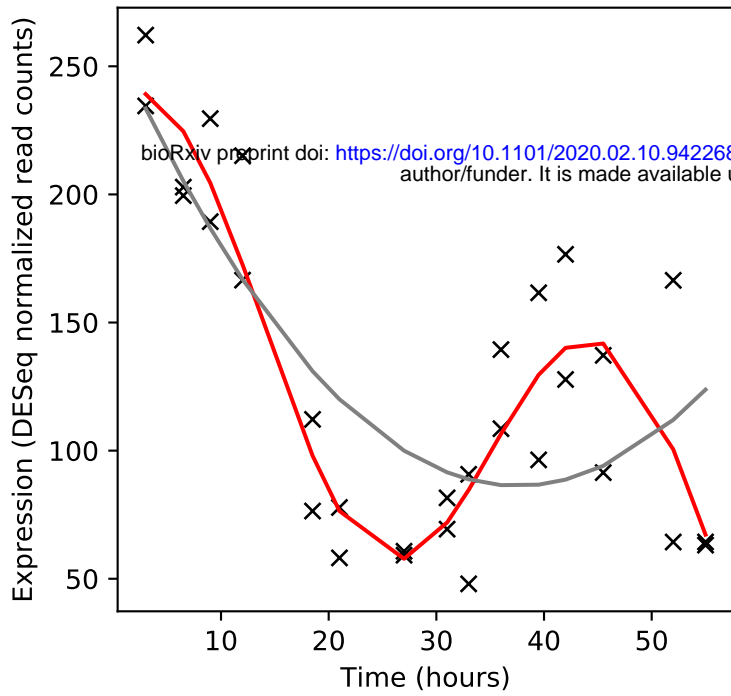
Rv3883c/mycP1



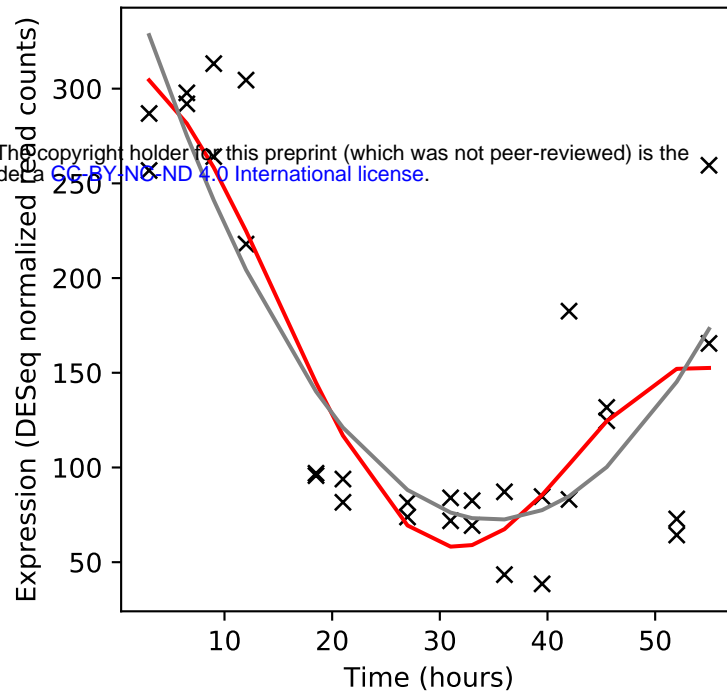
Rv3884c/eccA2



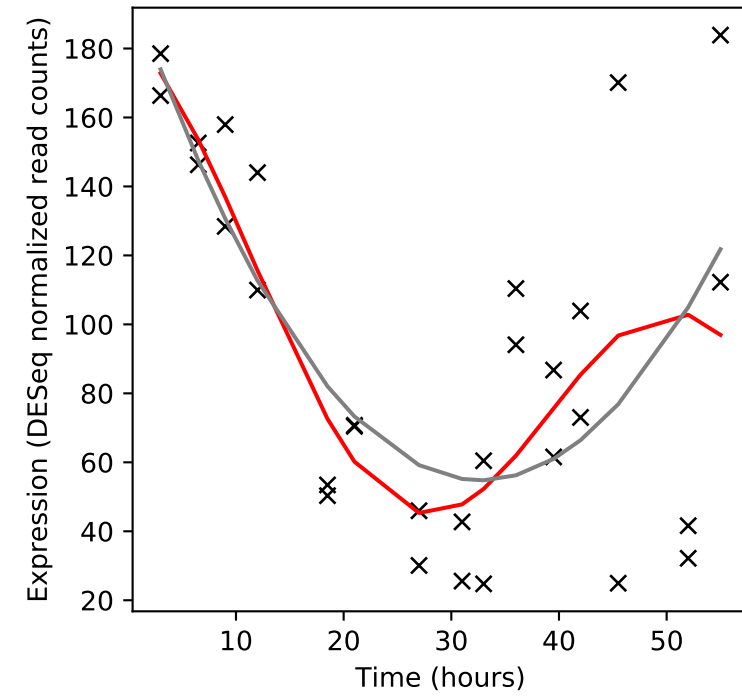
Rv3885c/eccE2



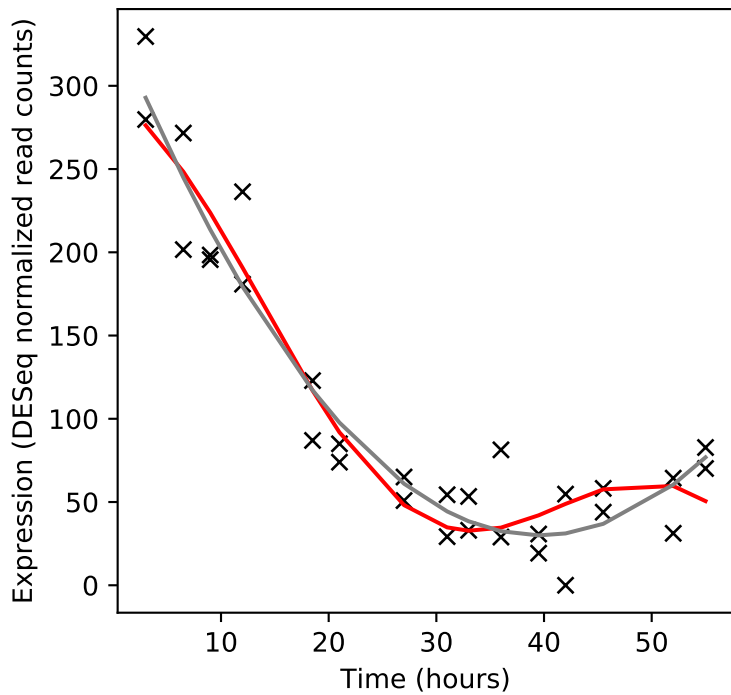
Rv3886c/mycP2



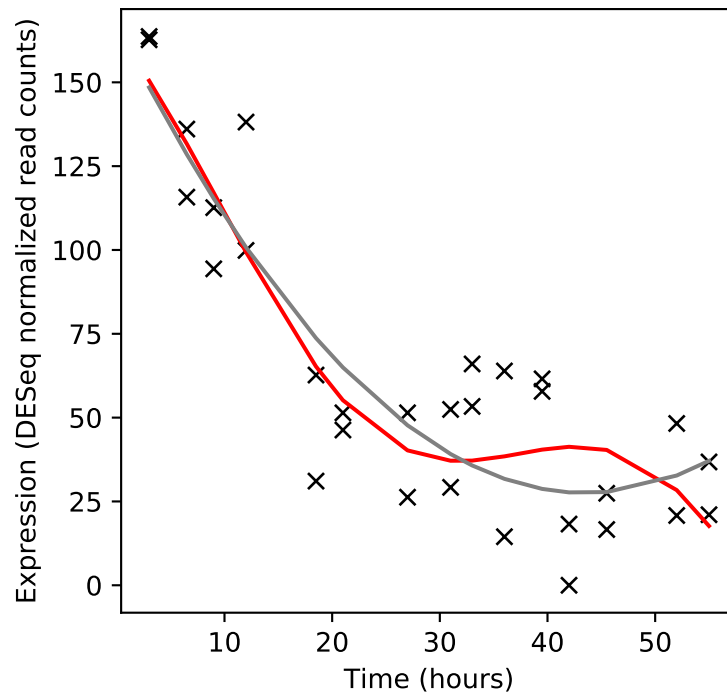
Rv3887c/eccD2



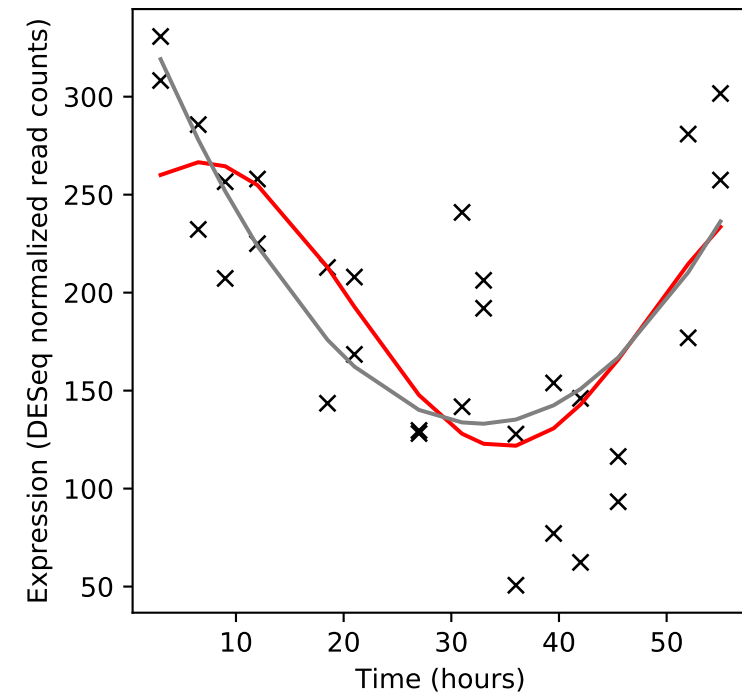
Rv3888c/-



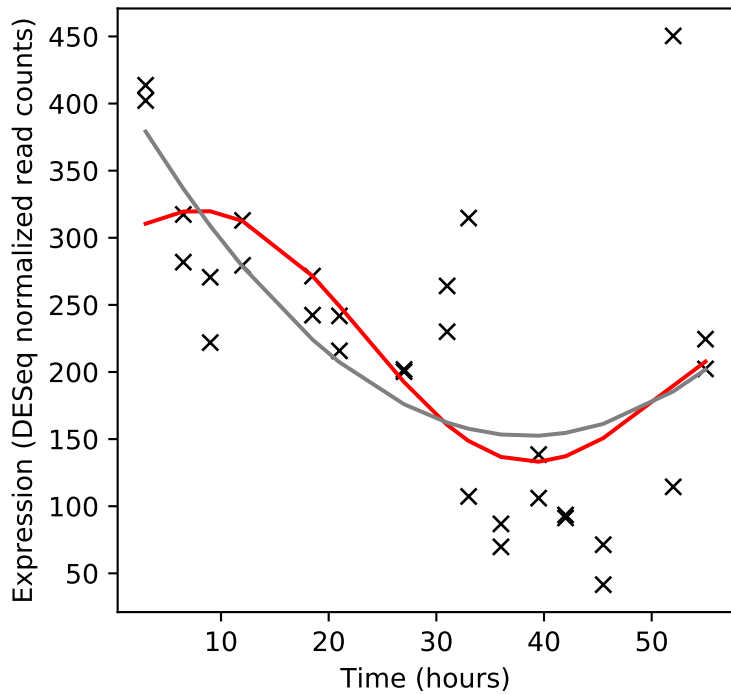
Rv3889c/espG2



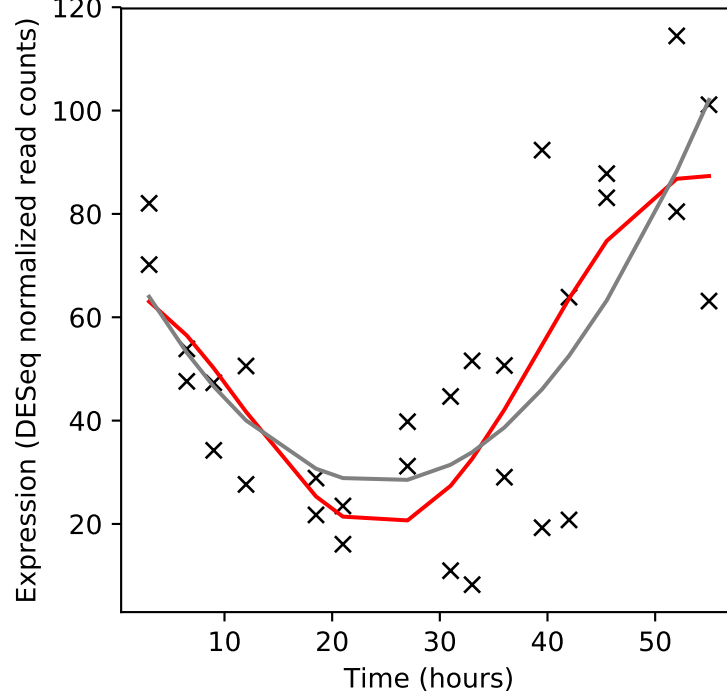
Rv3890c/esxC



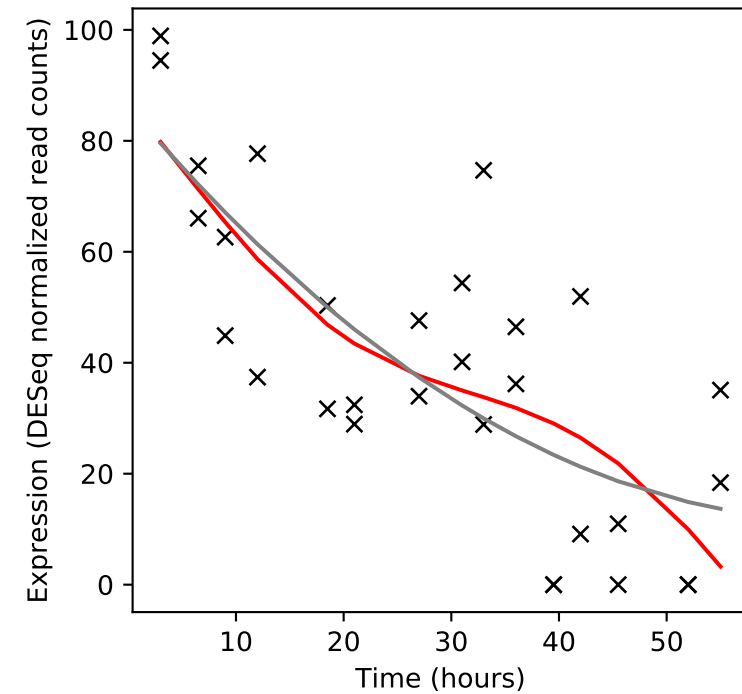
Rv3891c/esxD



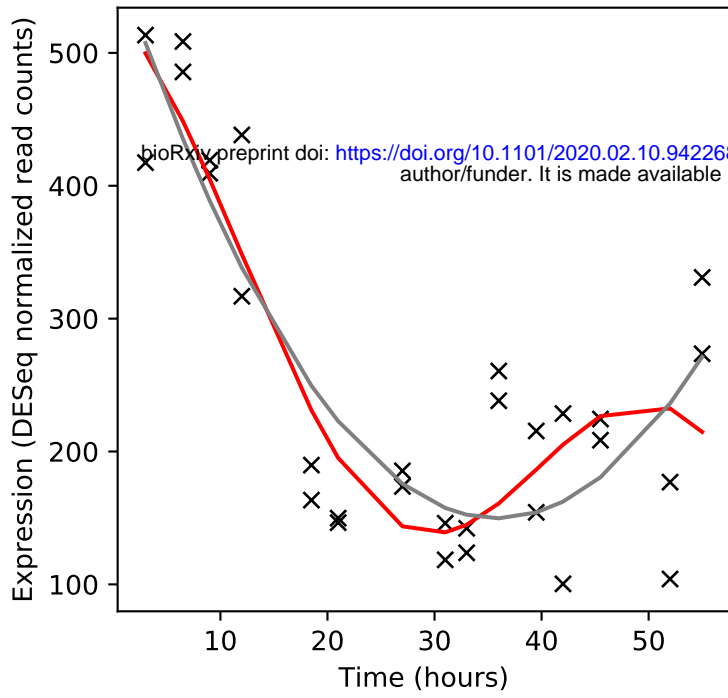
Rv3892c/PPE69



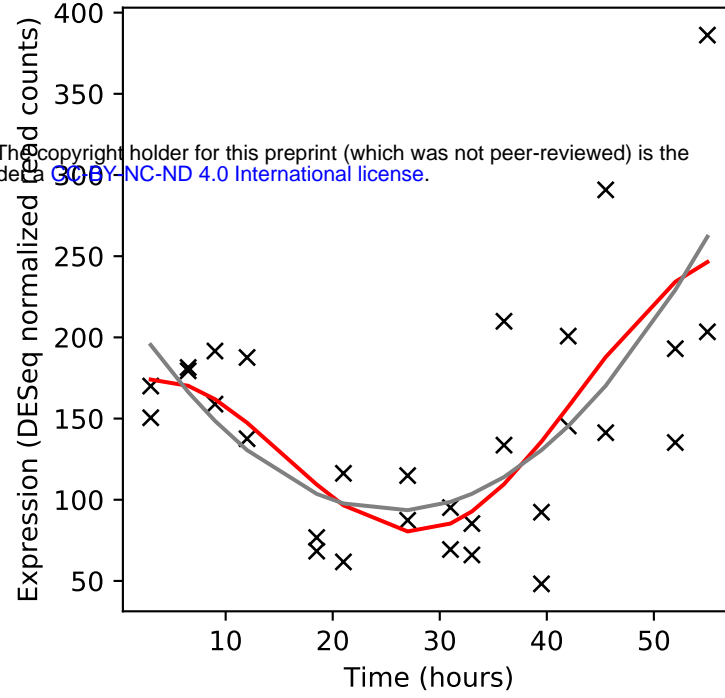
Rv3893c/PE36



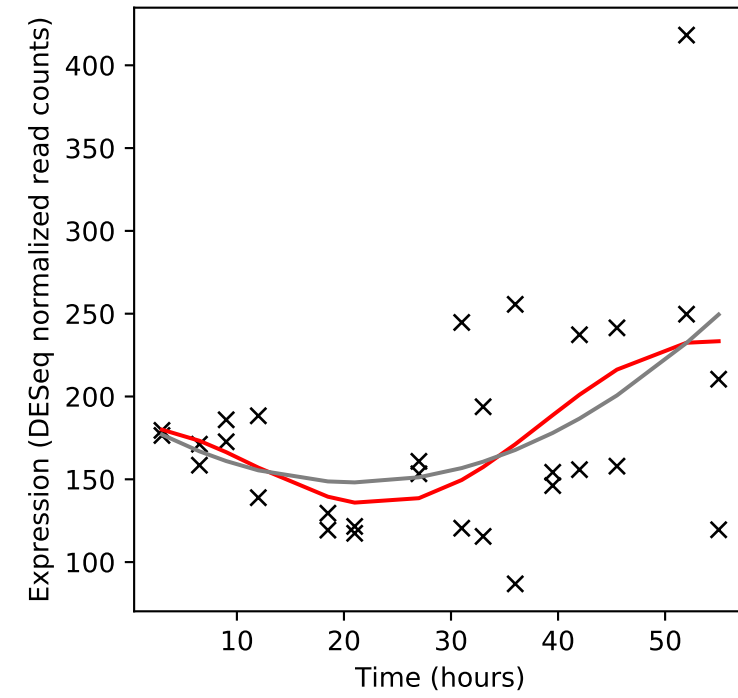
Rv3894c/eccC2



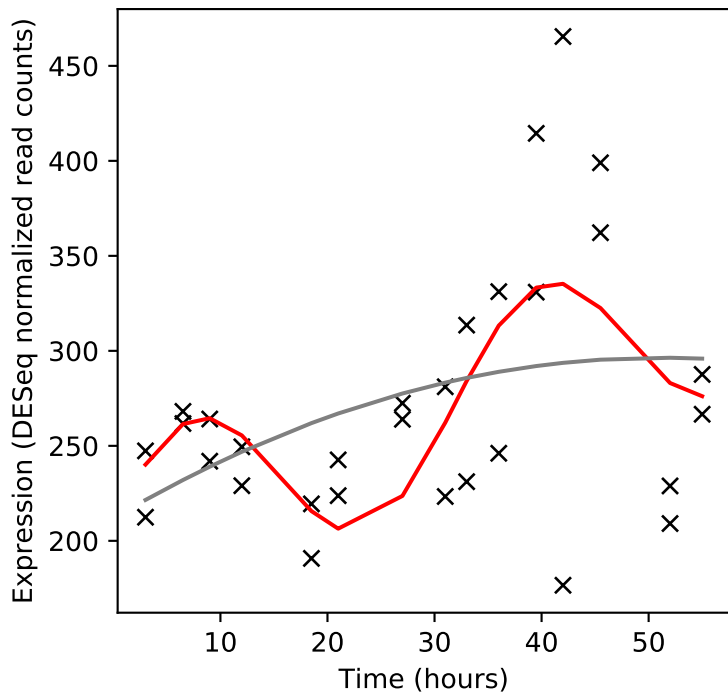
Rv3895c/eccB2



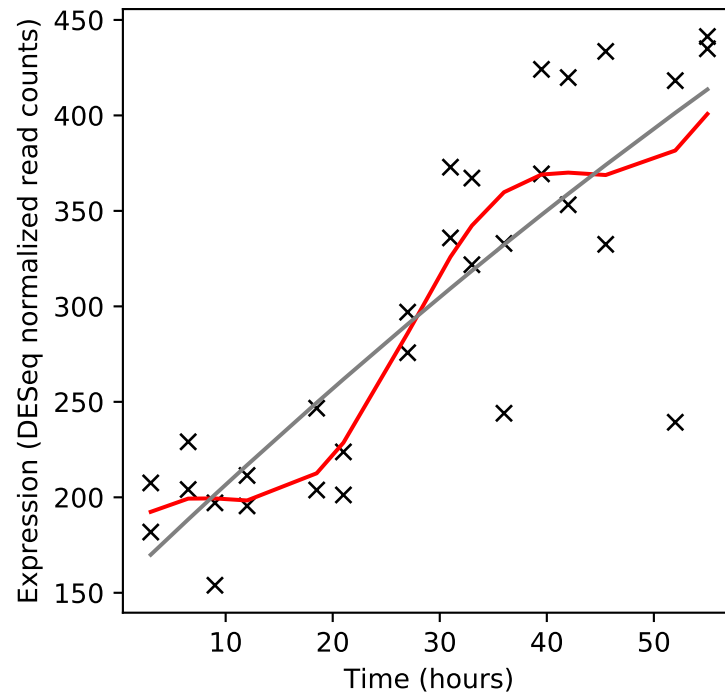
Rv3896c/-



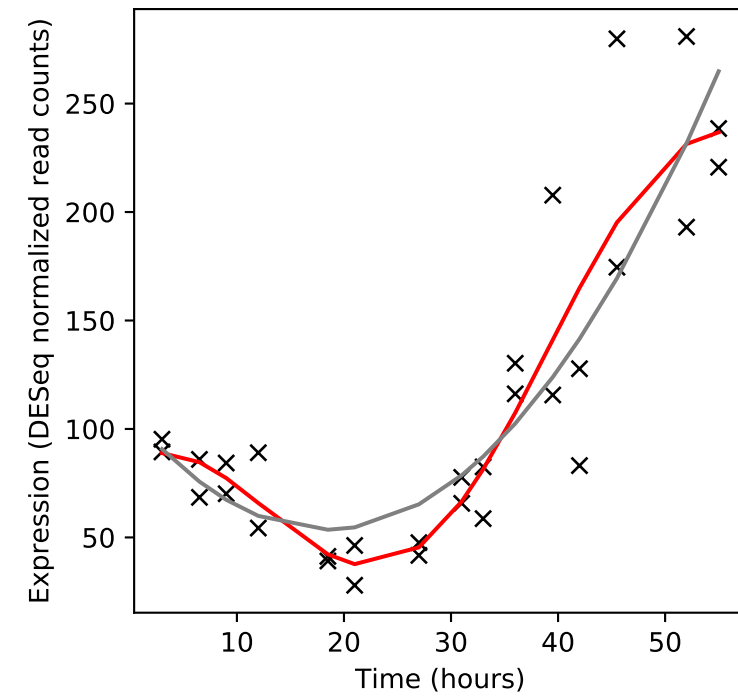
Rv3897c/-



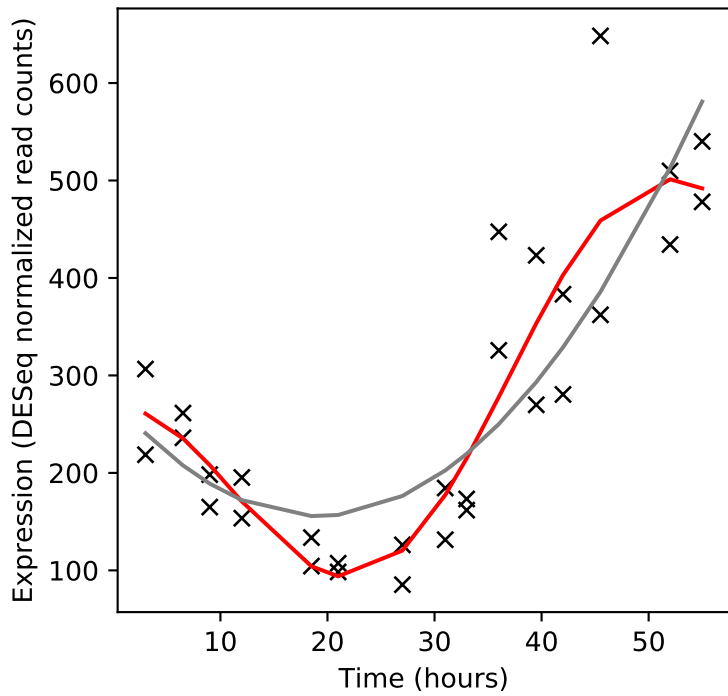
Rv3898c/-



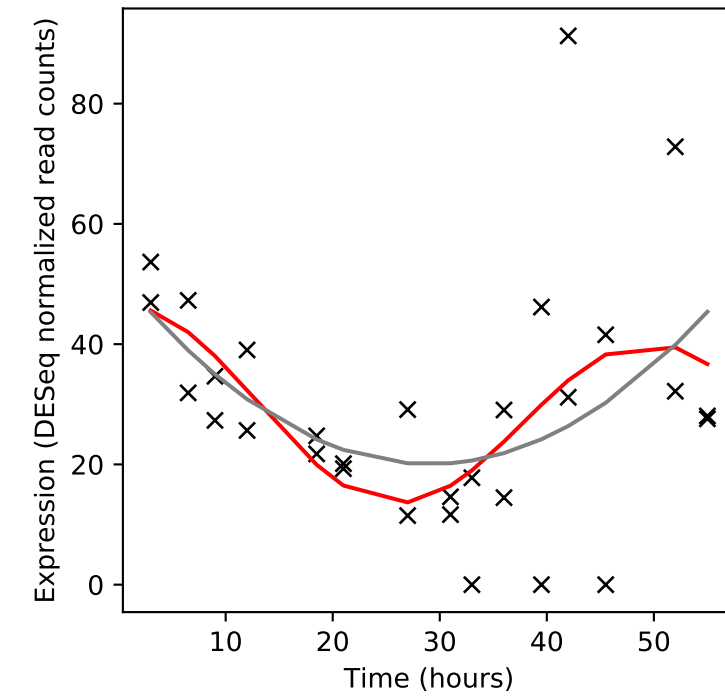
Rv3899c/-



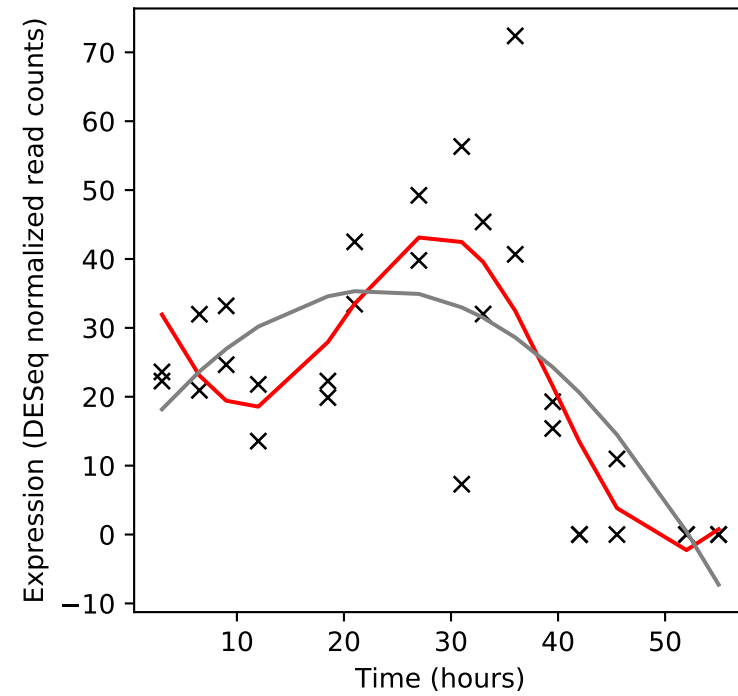
Rv3900c/-



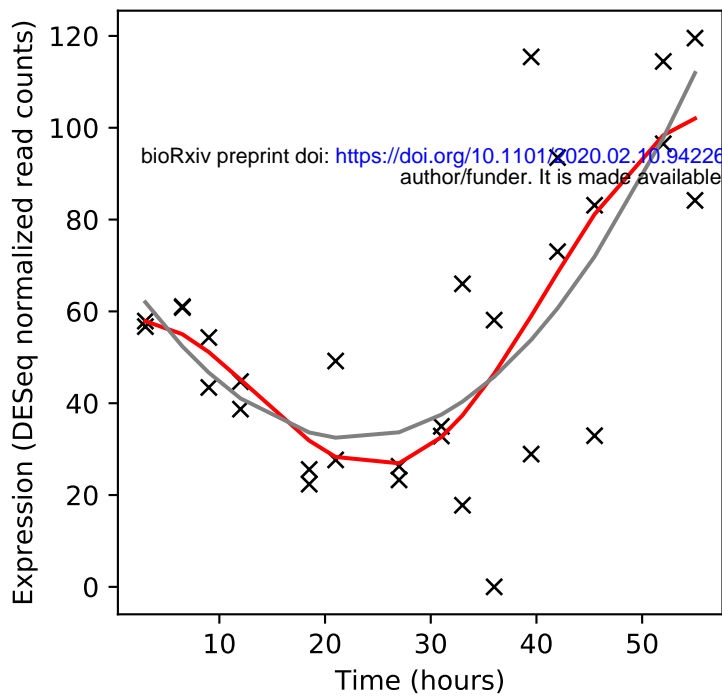
Rv3901c/-



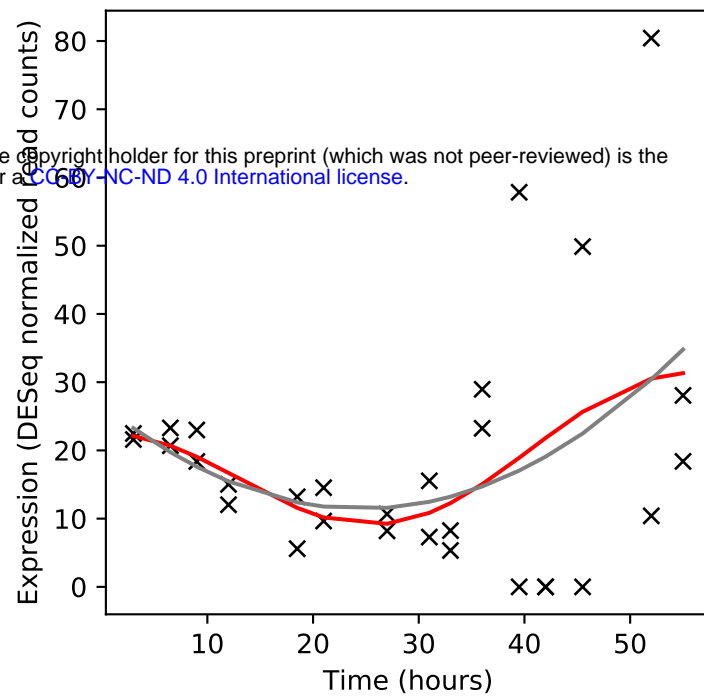
Rv3902c/-



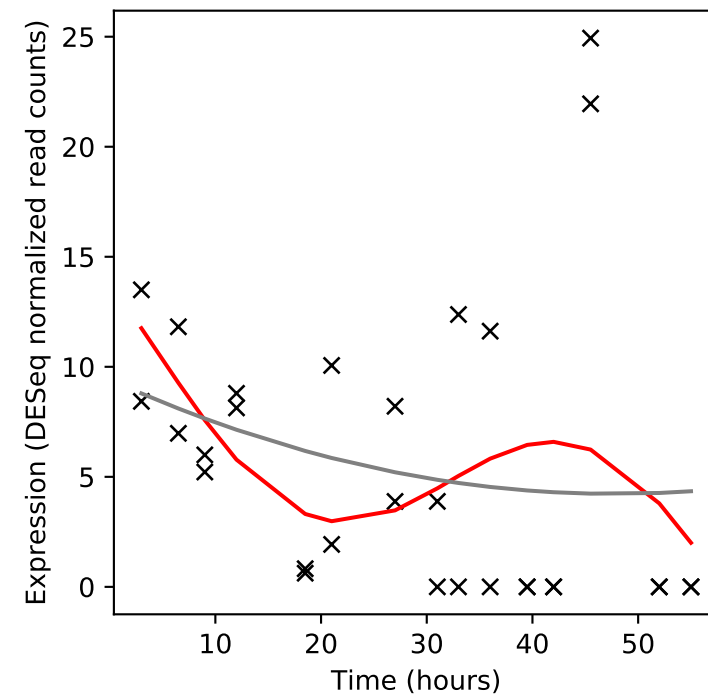
Rv3903c/-



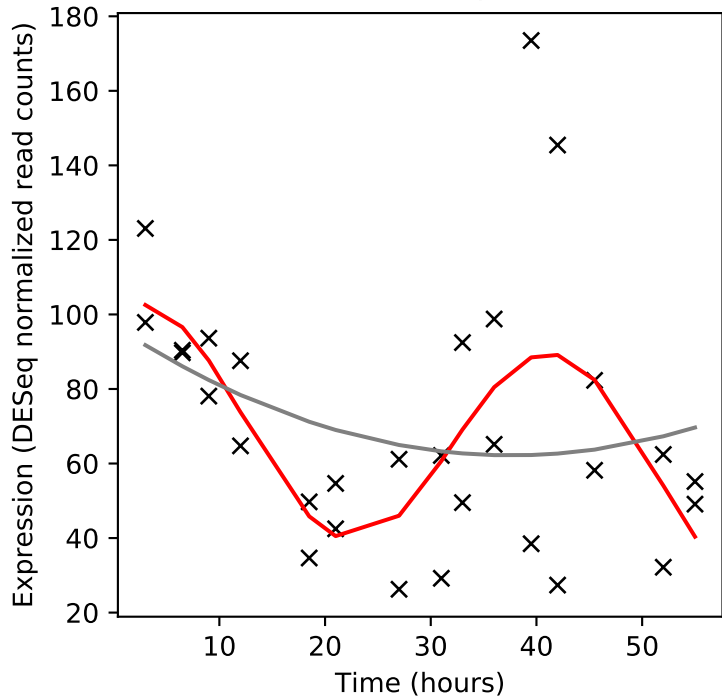
Rv3904c/esxE



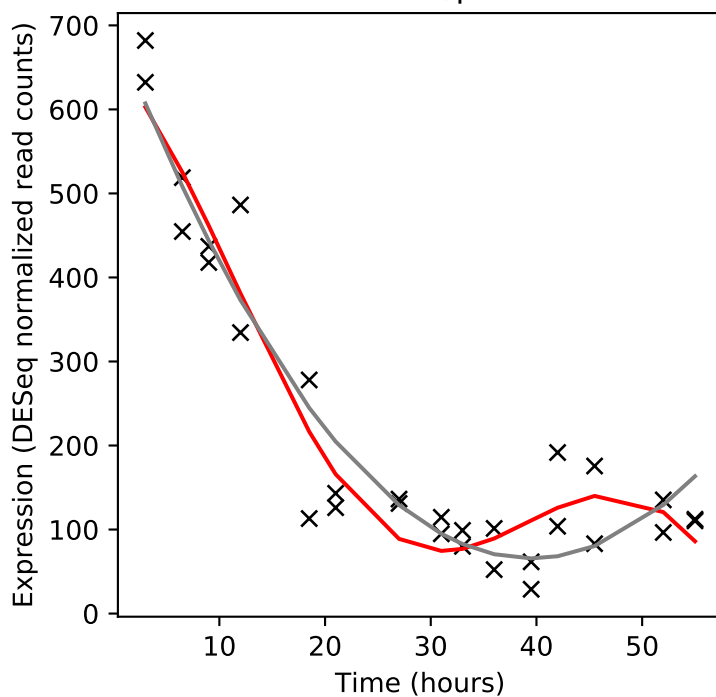
Rv3905c/esxF



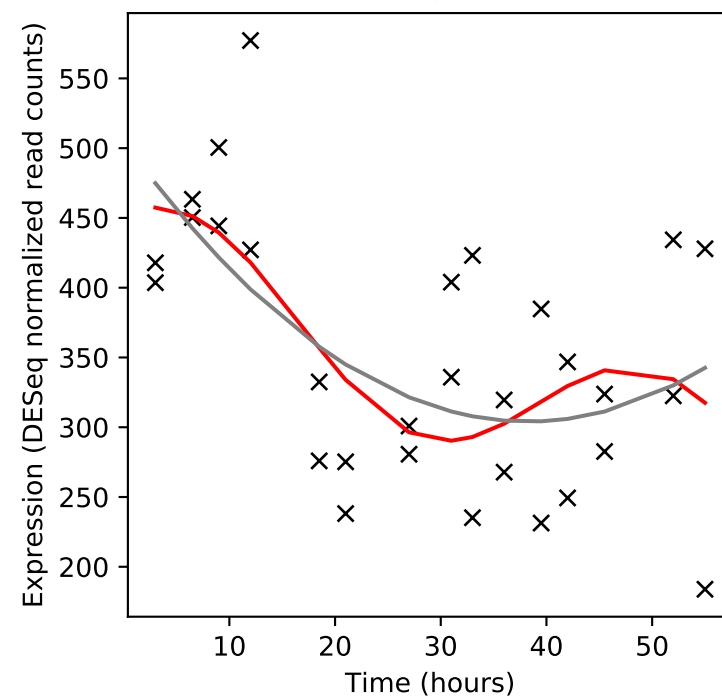
Rv3906c/-



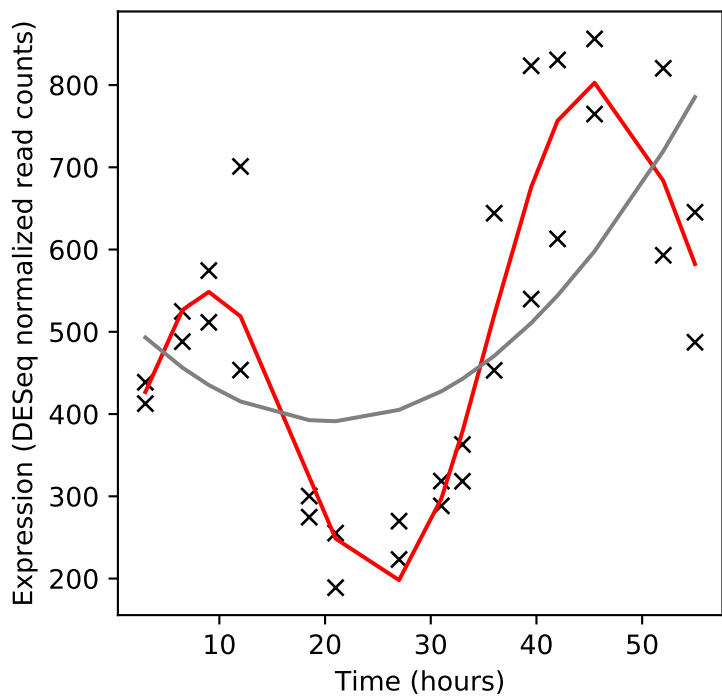
Rv3907c/pcnA



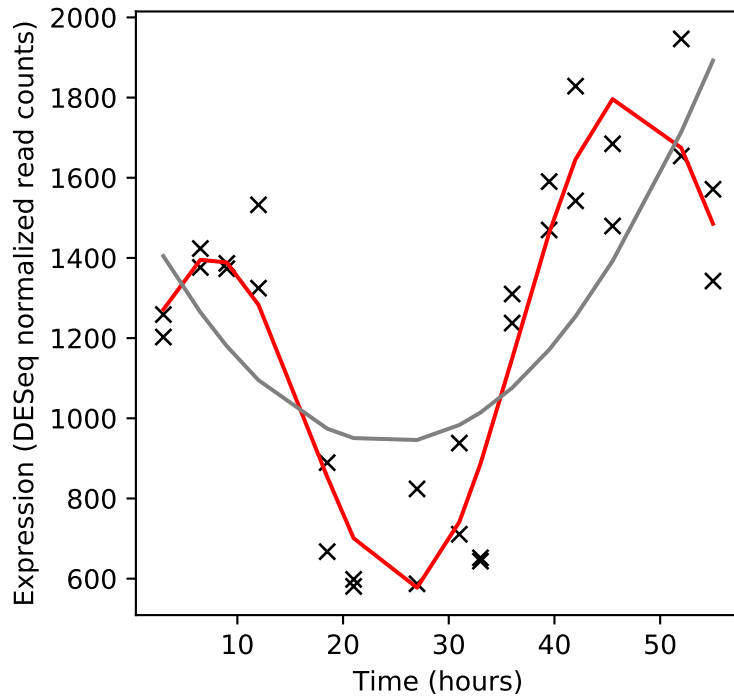
Rv3908/mutT4



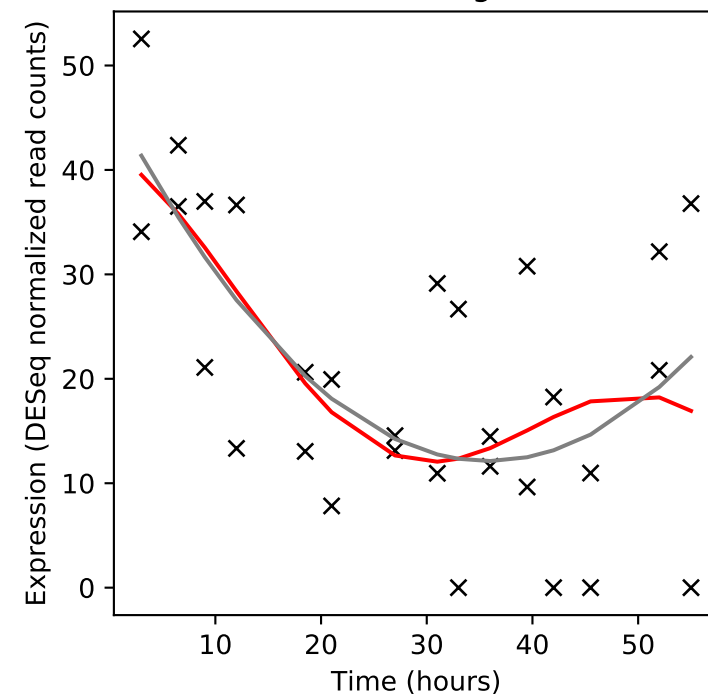
Rv3909/-



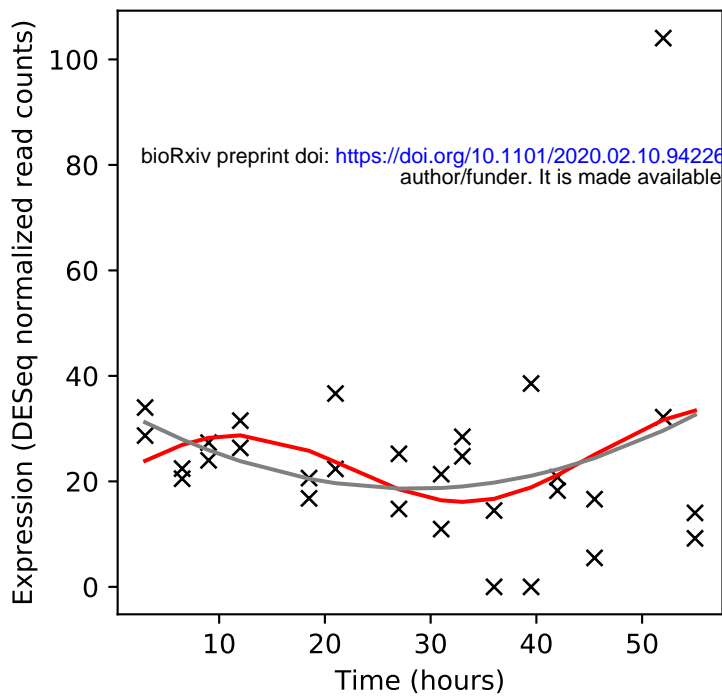
Rv3910/-



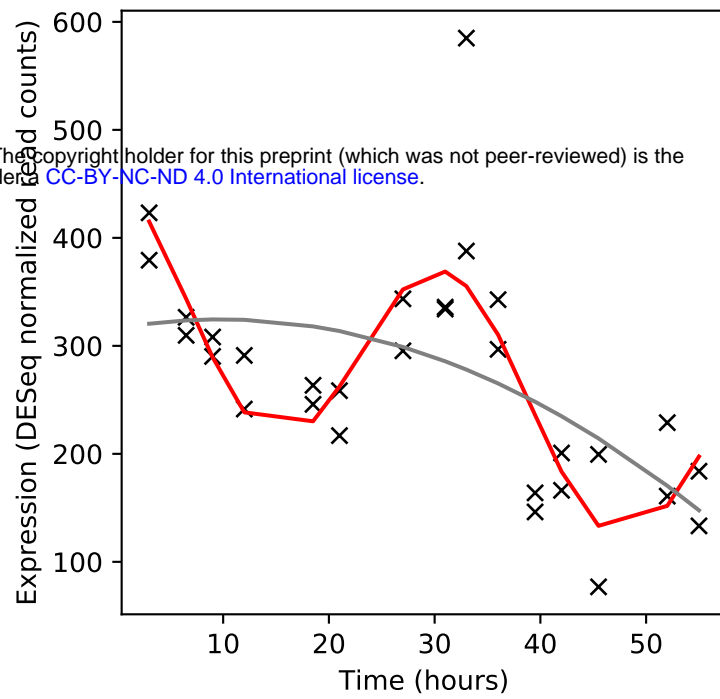
Rv3911/sigM



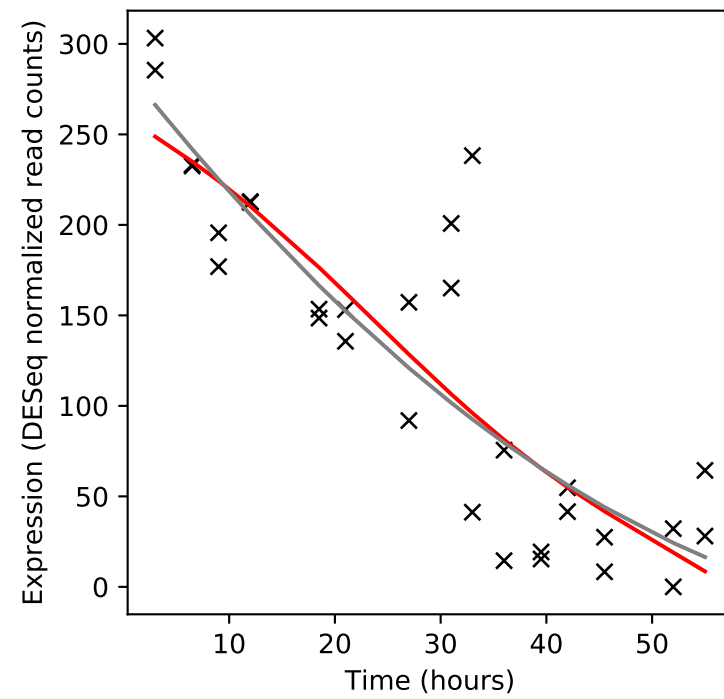
Rv3912/-



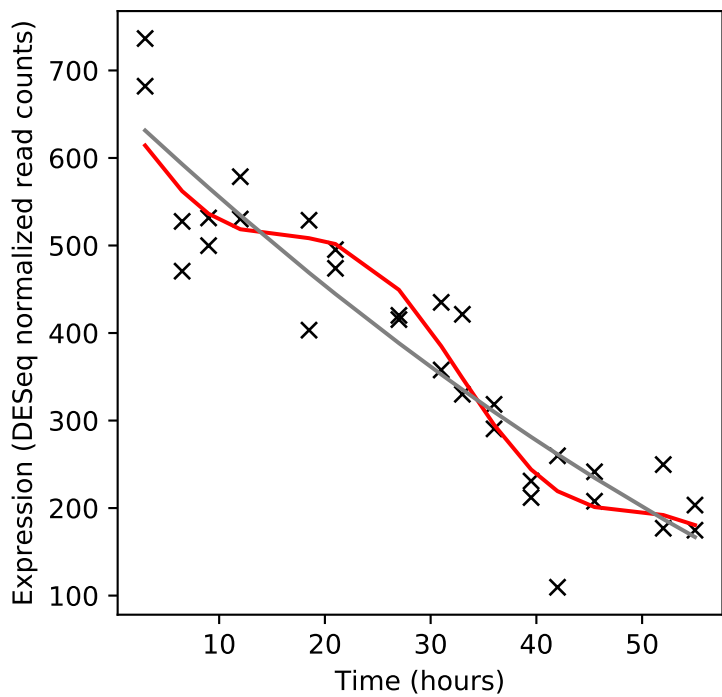
Rv3913/trxB2



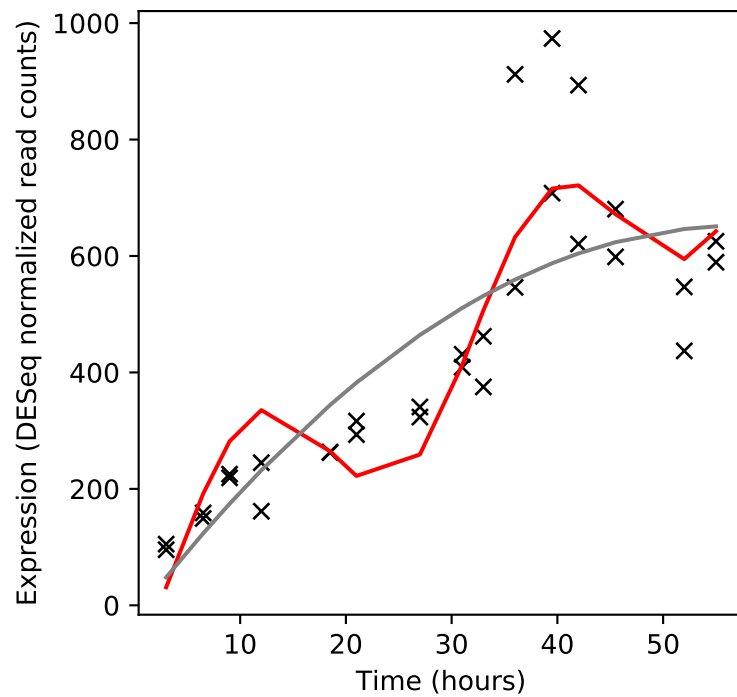
Rv3914/trxC



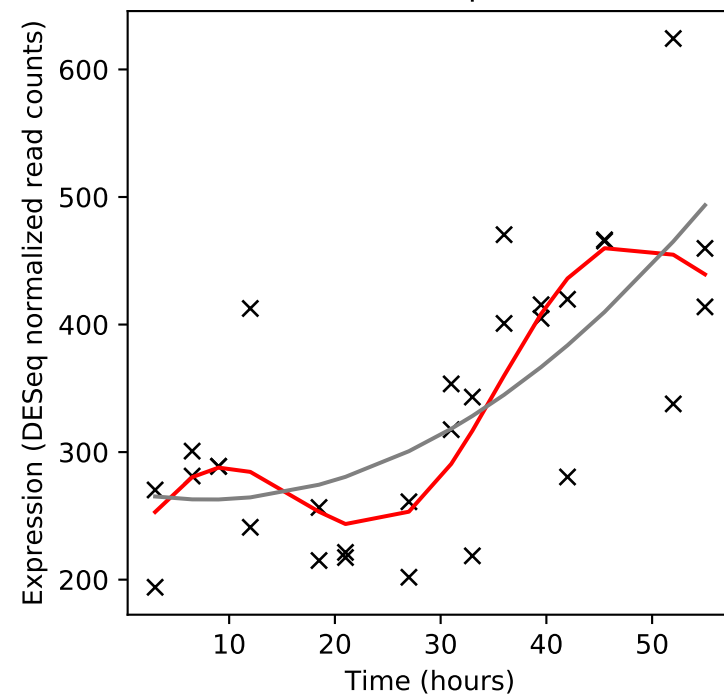
Rv3915/-



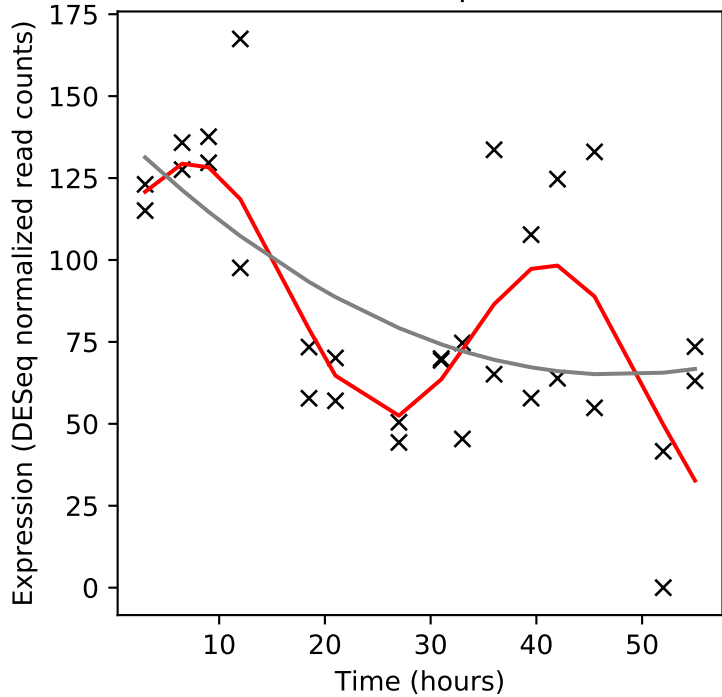
Rv3916c/-



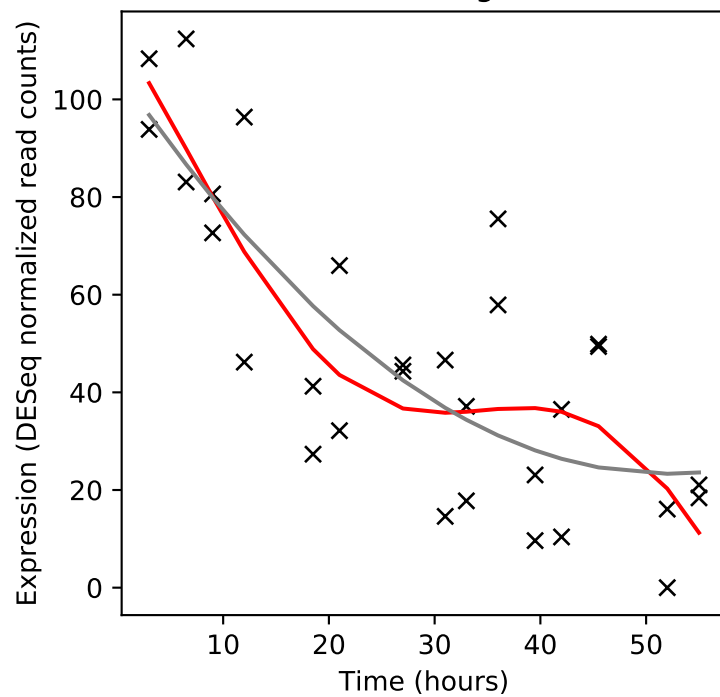
Rv3917c/parB



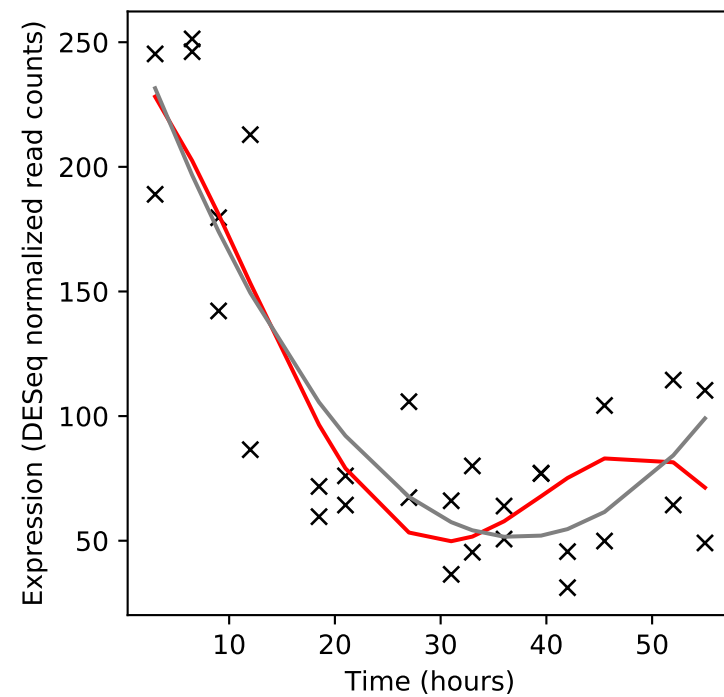
Rv3918c/parA



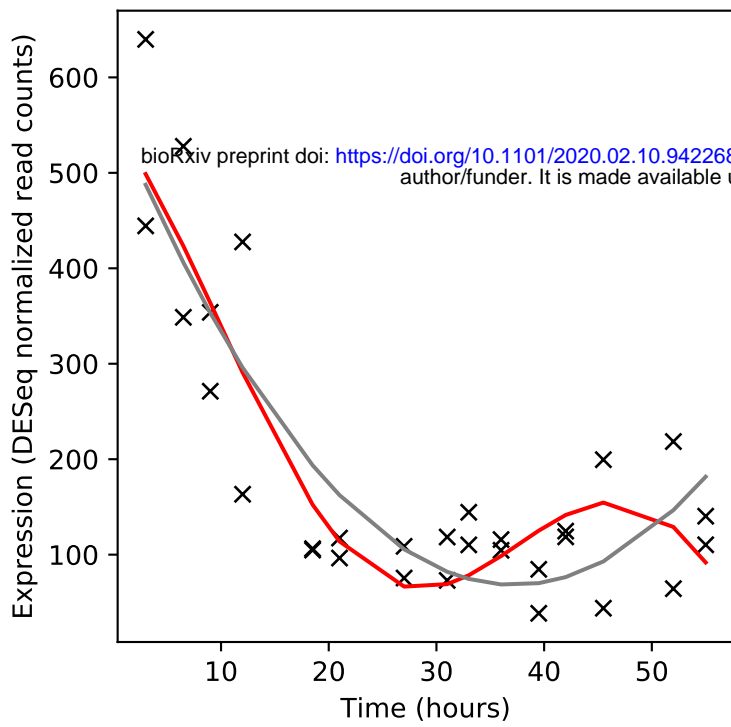
Rv3919c/gid



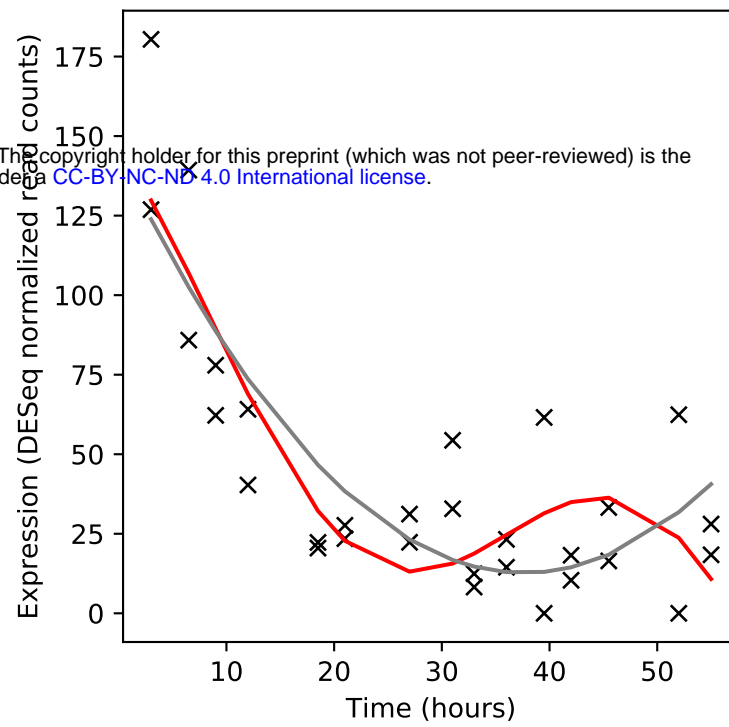
Rv3920c/-



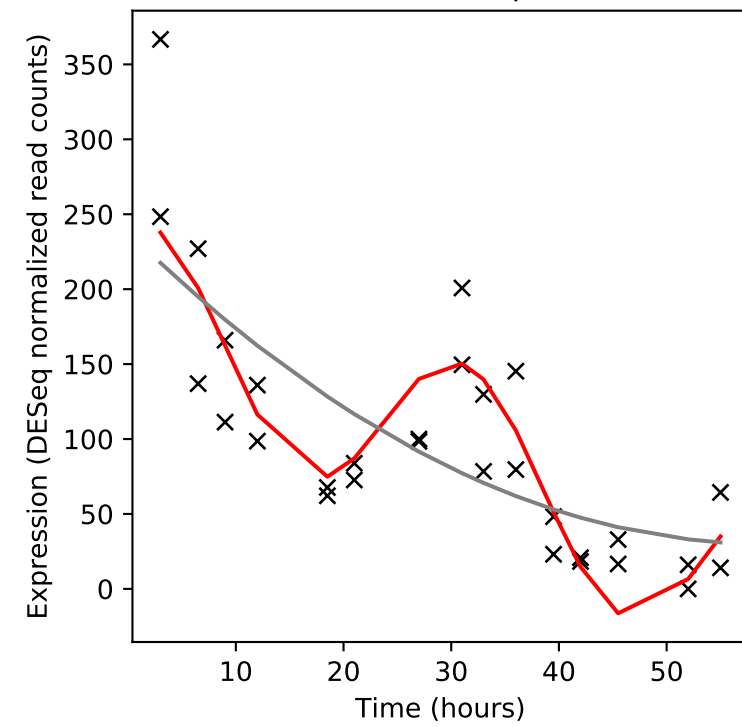
Rv3921c/-



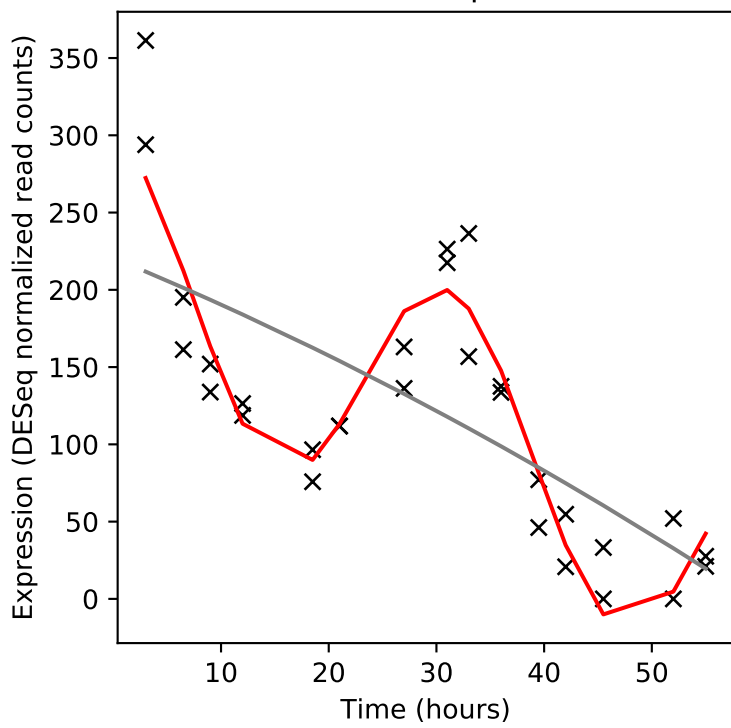
Rv3922c/-



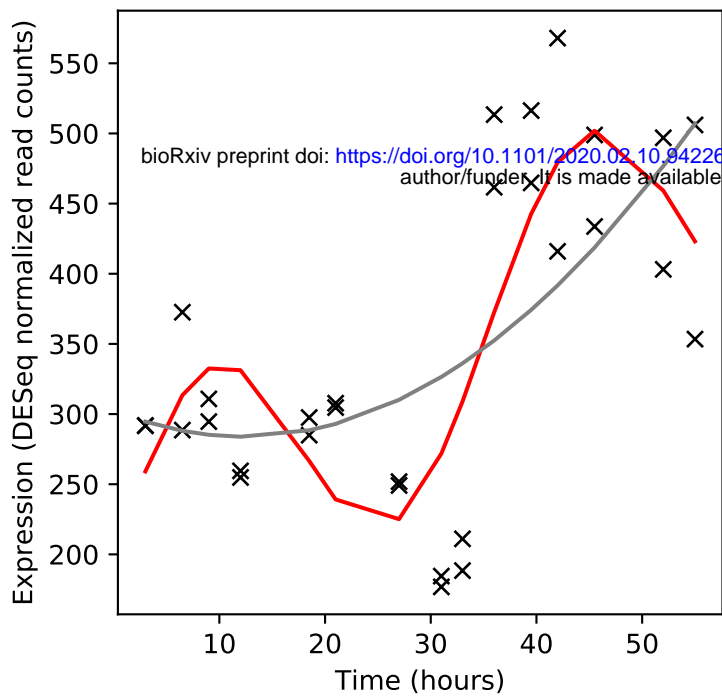
Rv3923c/rnpA



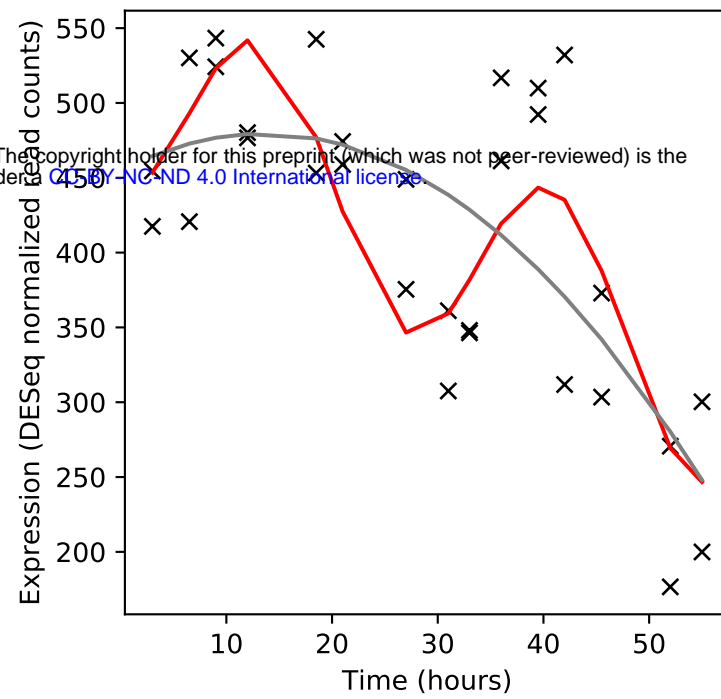
Rv3924c/rpmH



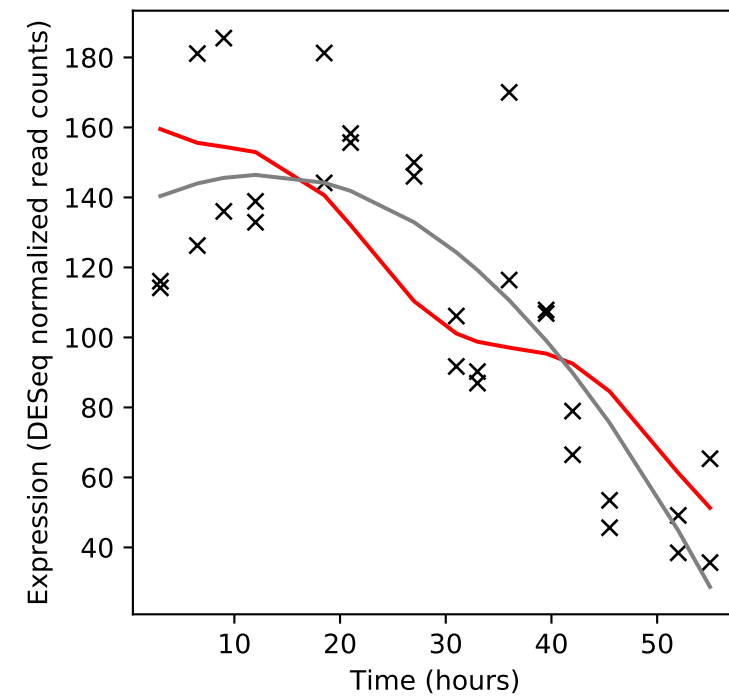
Rv0001/dnaA



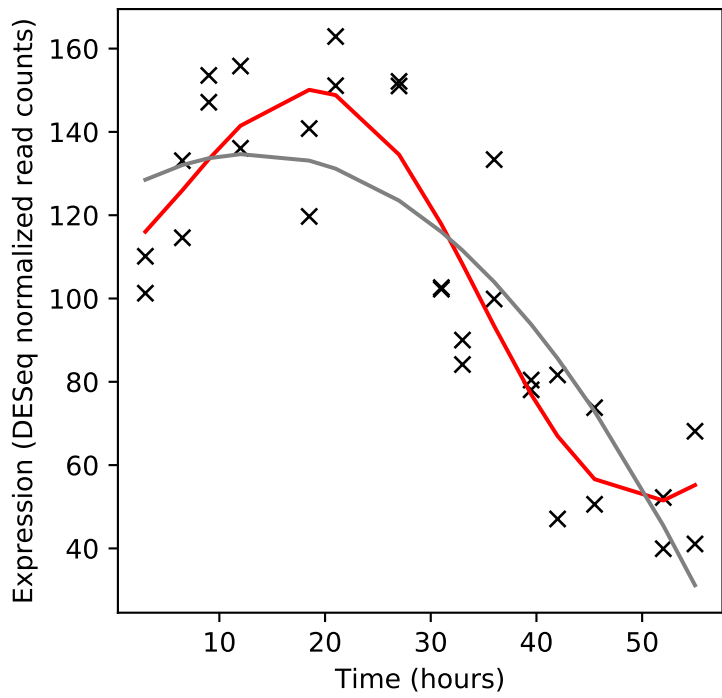
Rv0002/dnaN



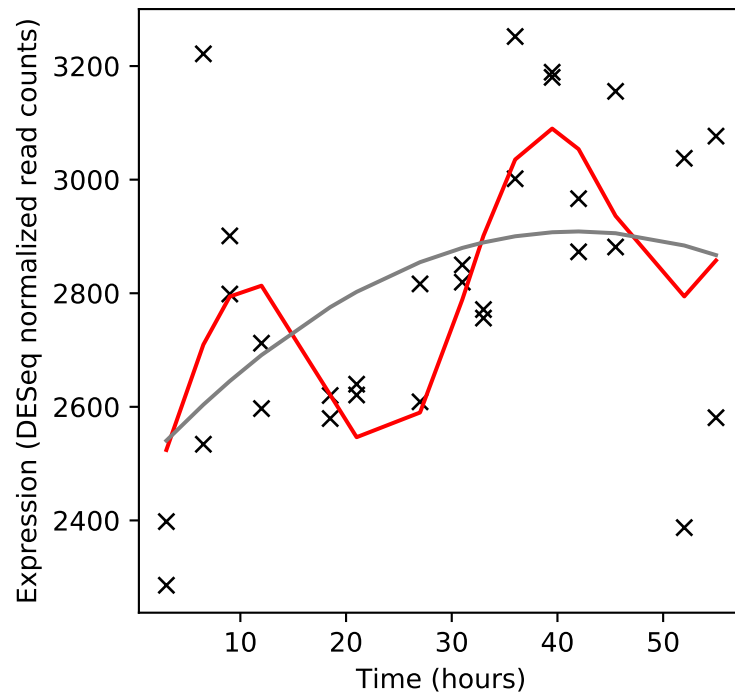
Rv0003/recF



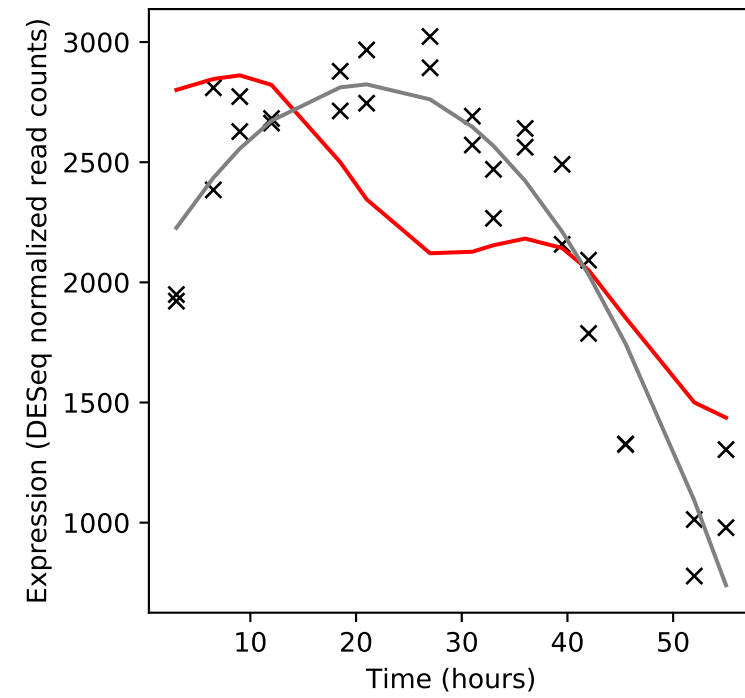
Rv0004/-



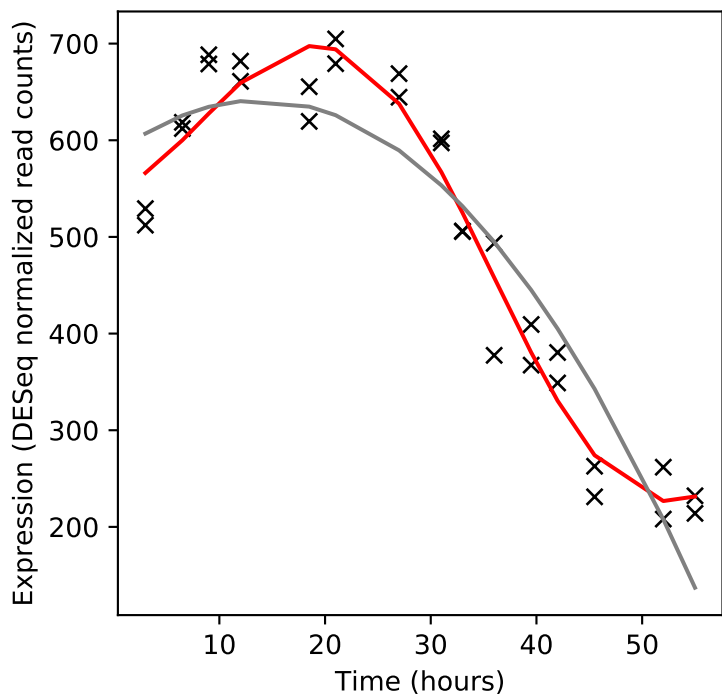
Rv0005/gyrB



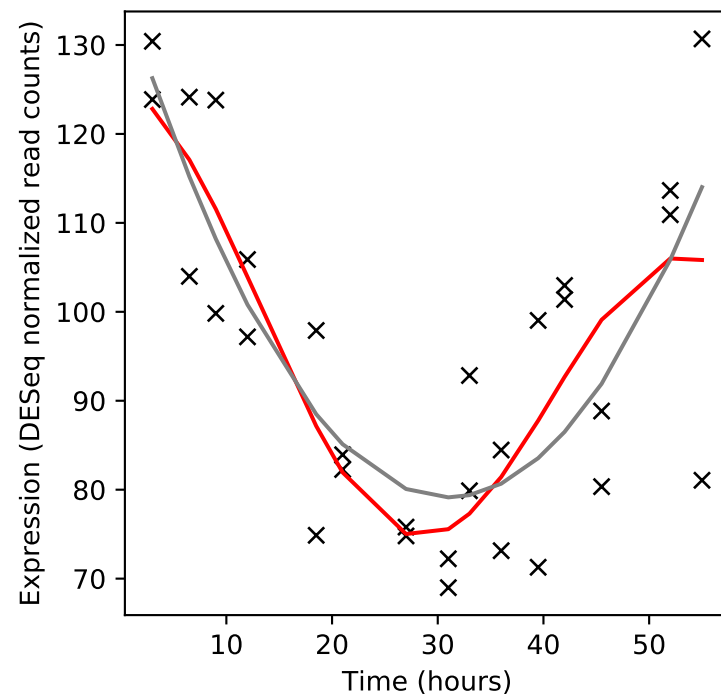
Rv0006/gyrA



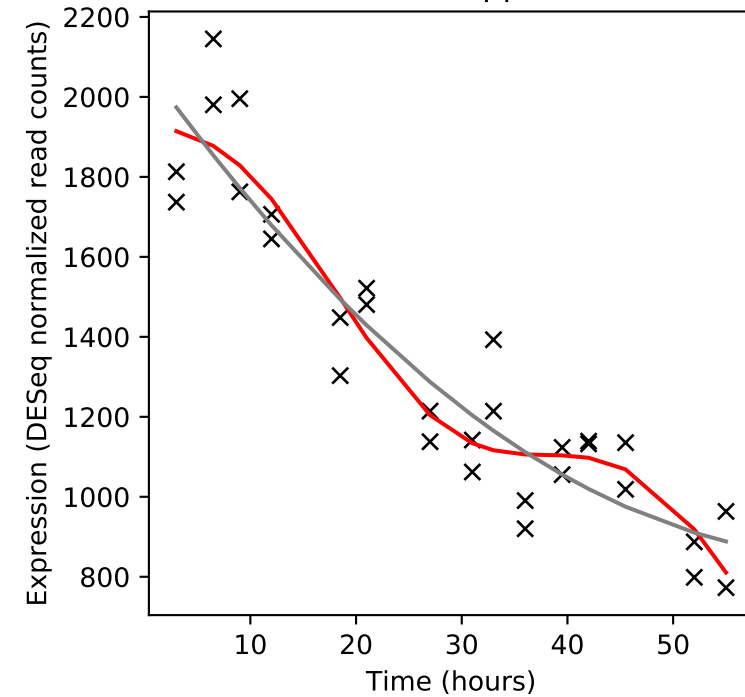
Rv0007/-



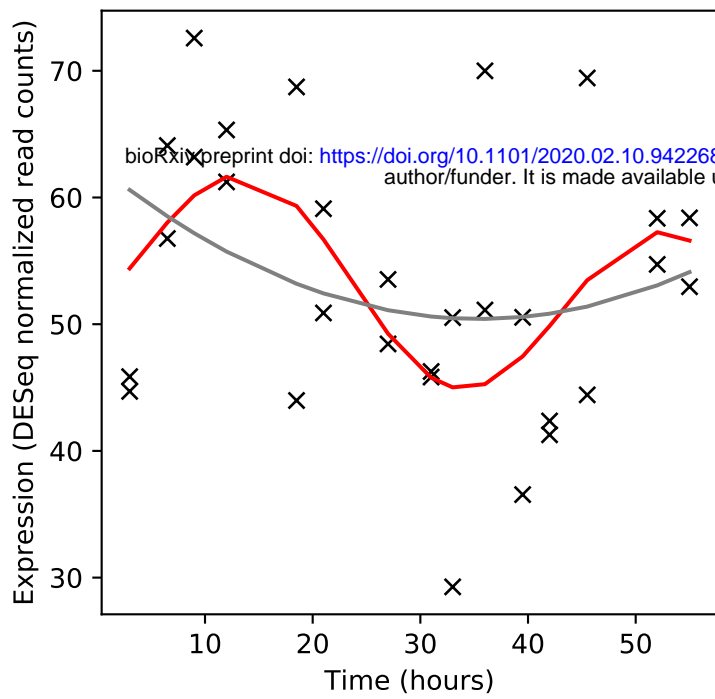
Rv0008c/-



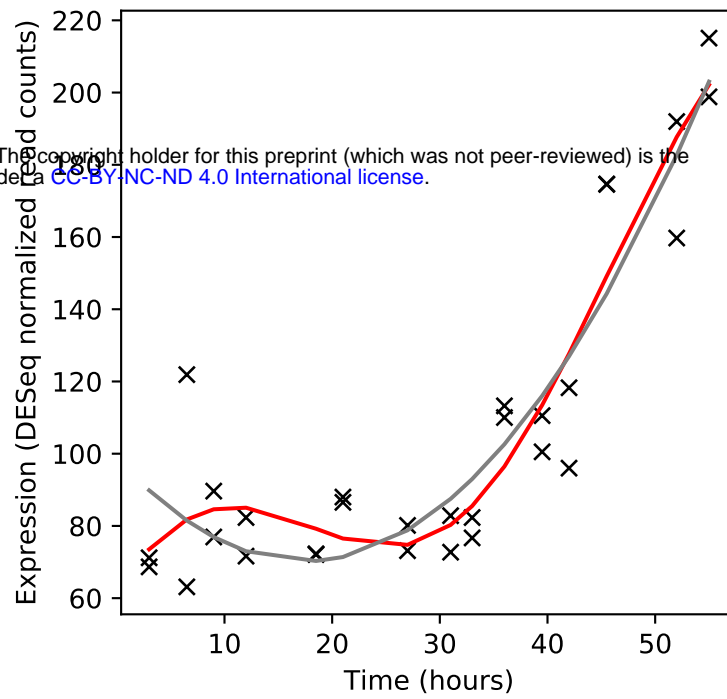
Rv0009/ppiA



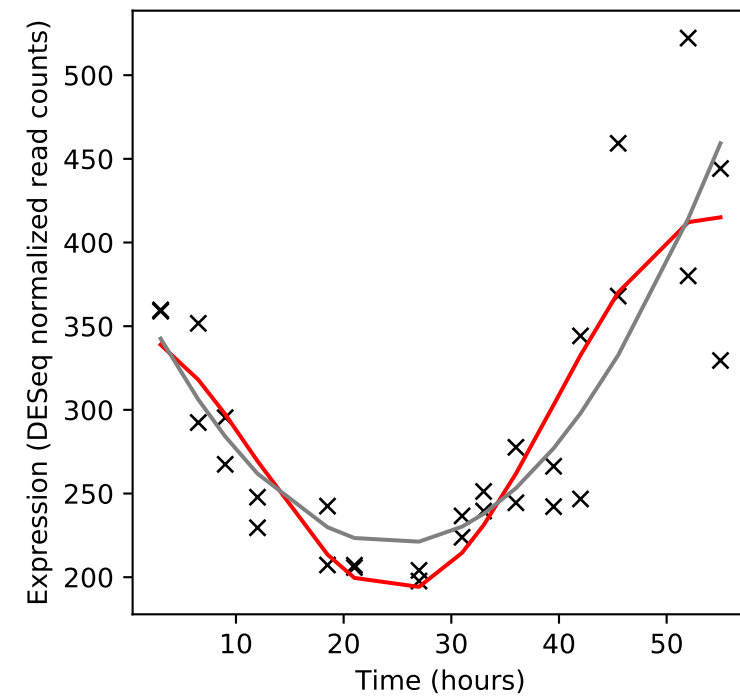
Rv0010c/-



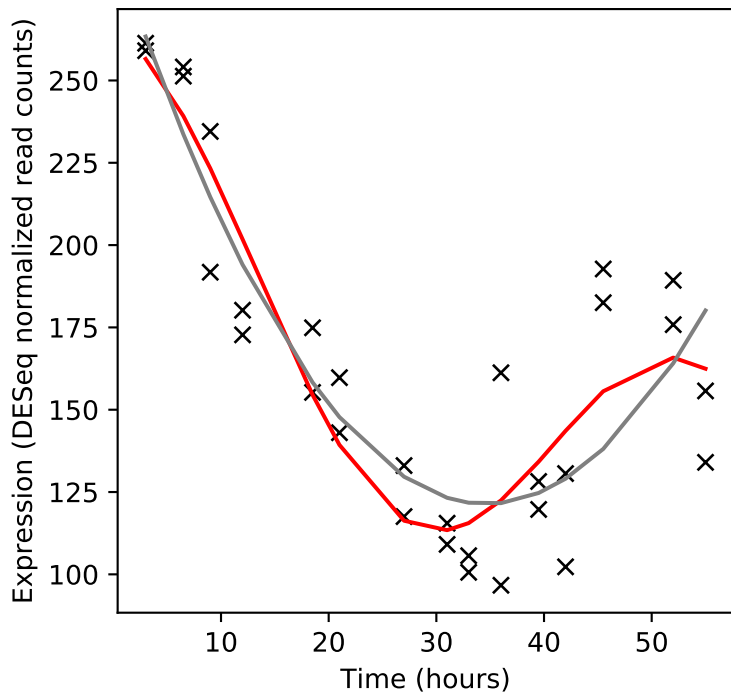
Rv0011c/-



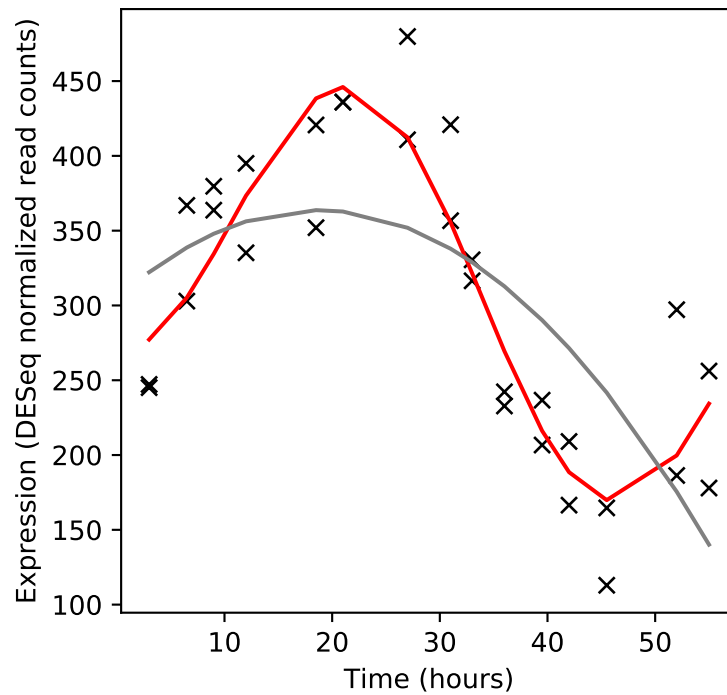
Rv0012c/-



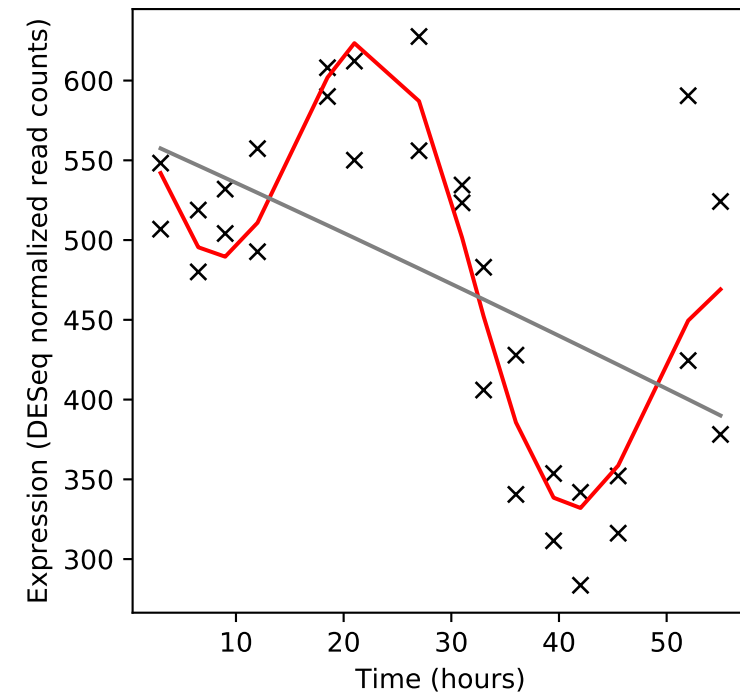
Rv0013/trpG



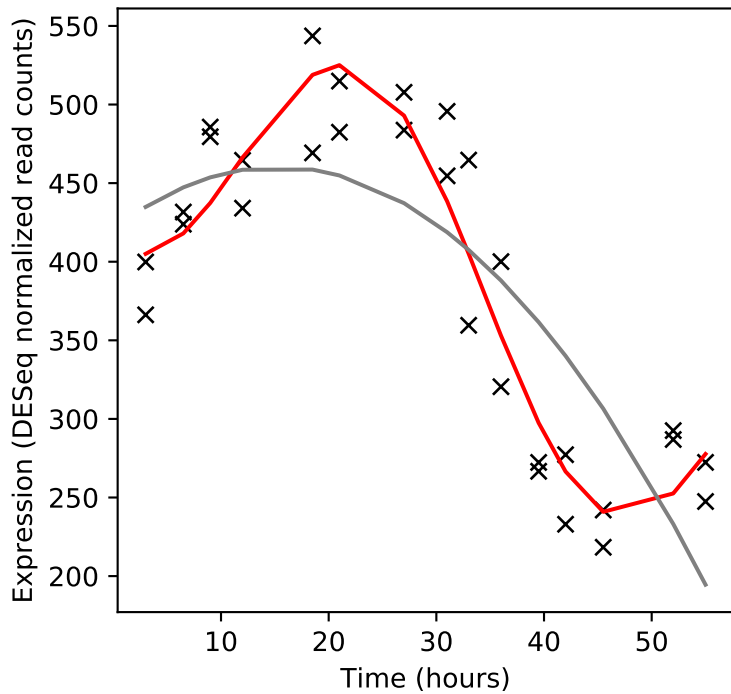
Rv0014c/pknB



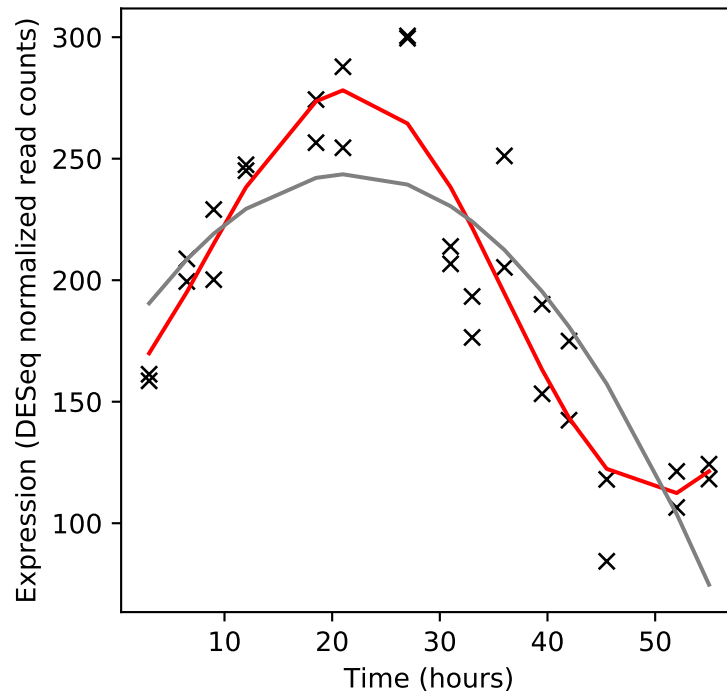
Rv0015c/pknA



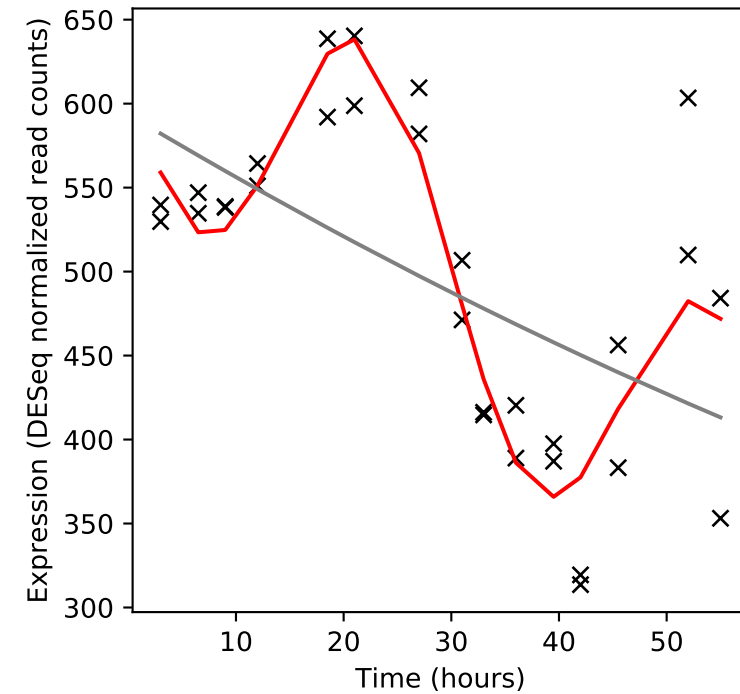
Rv0016c/pbpA



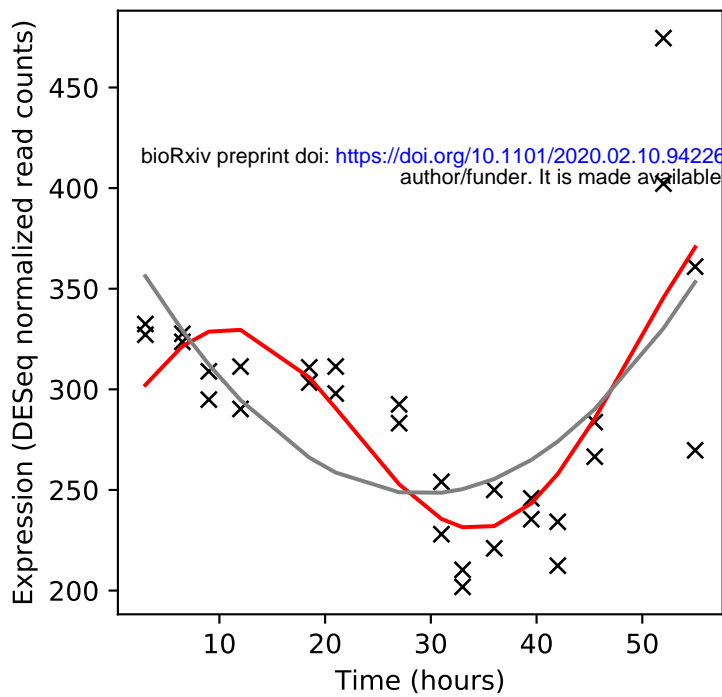
Rv0017c/rodA



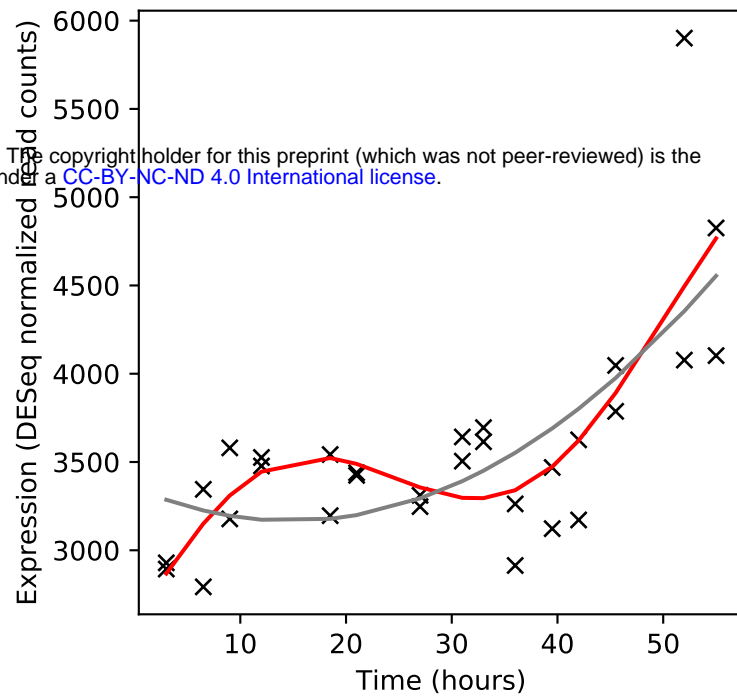
Rv0018c/pstP



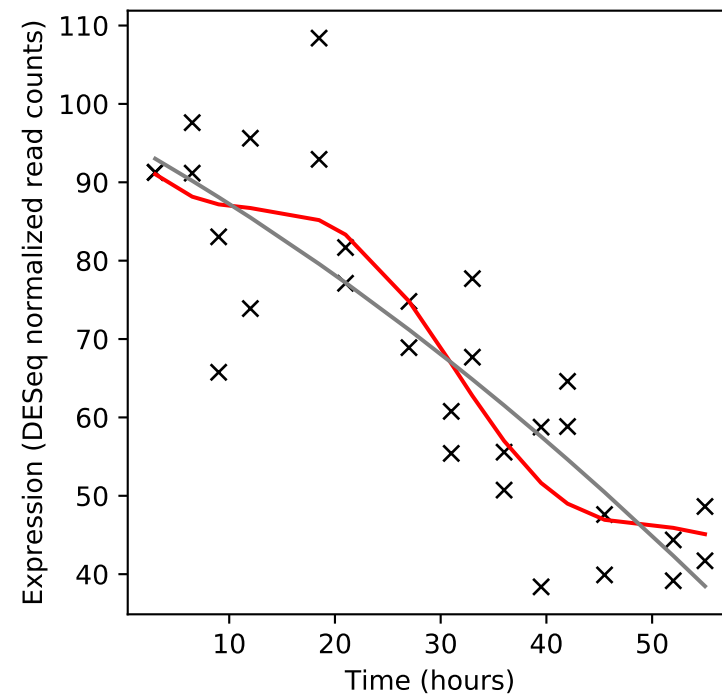
Rv0019c/fhaB



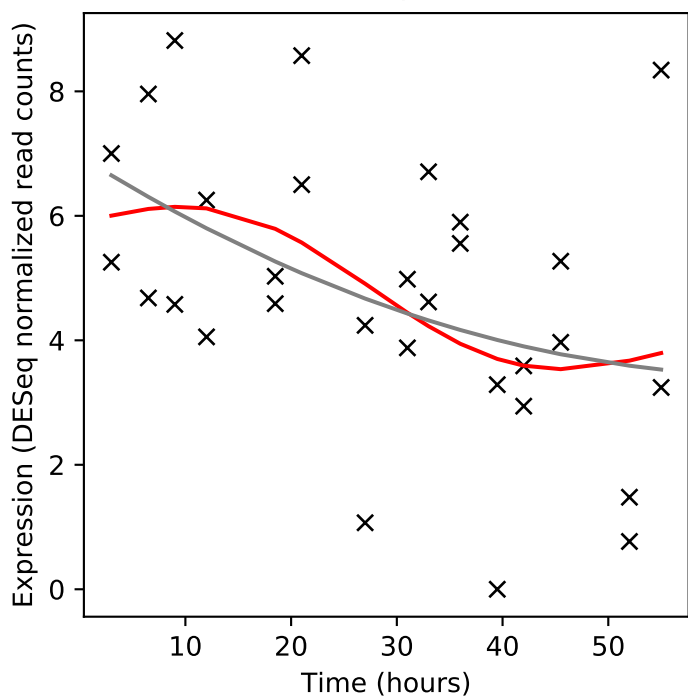
Rv0020c/fhaA



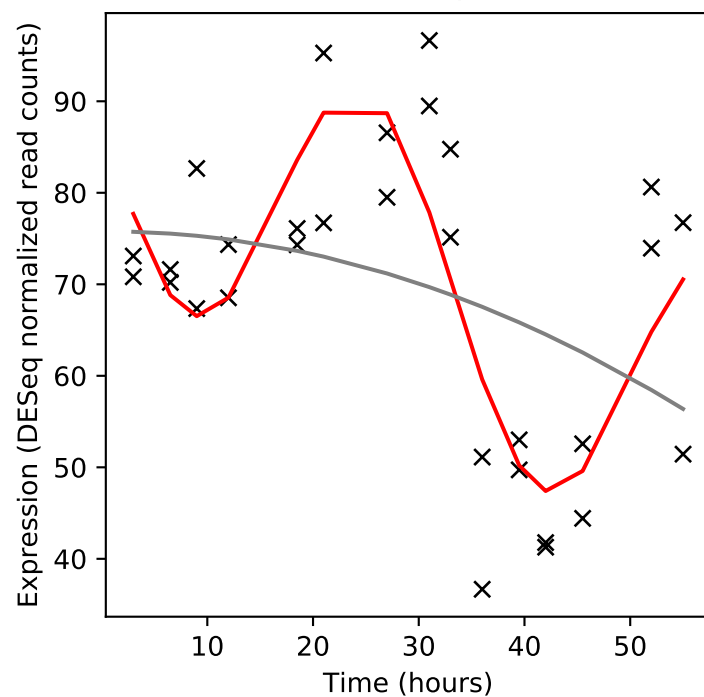
Rv0021c/-



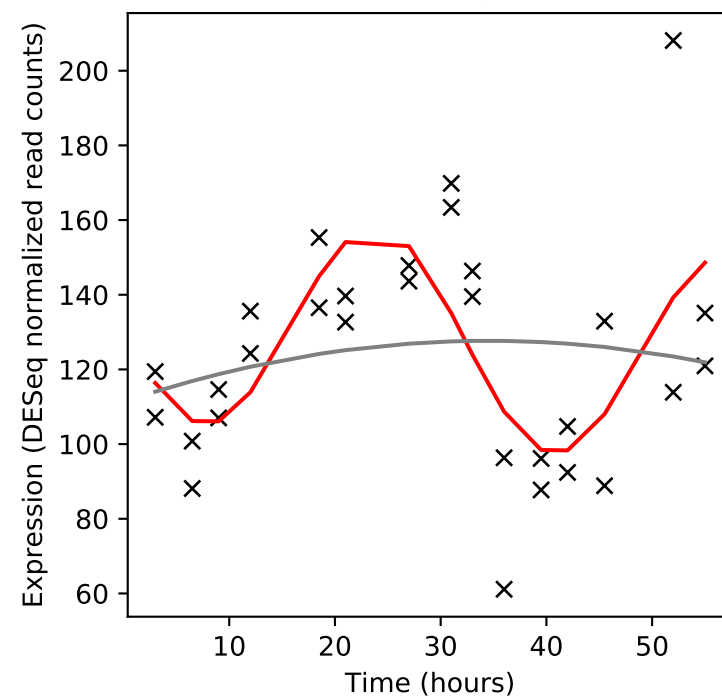
Rv0022c/whiB5



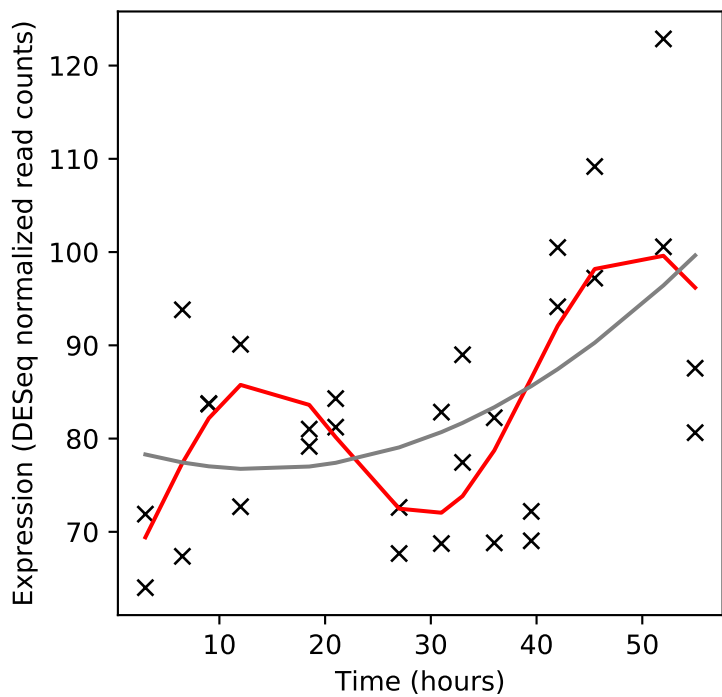
Rv0023/-



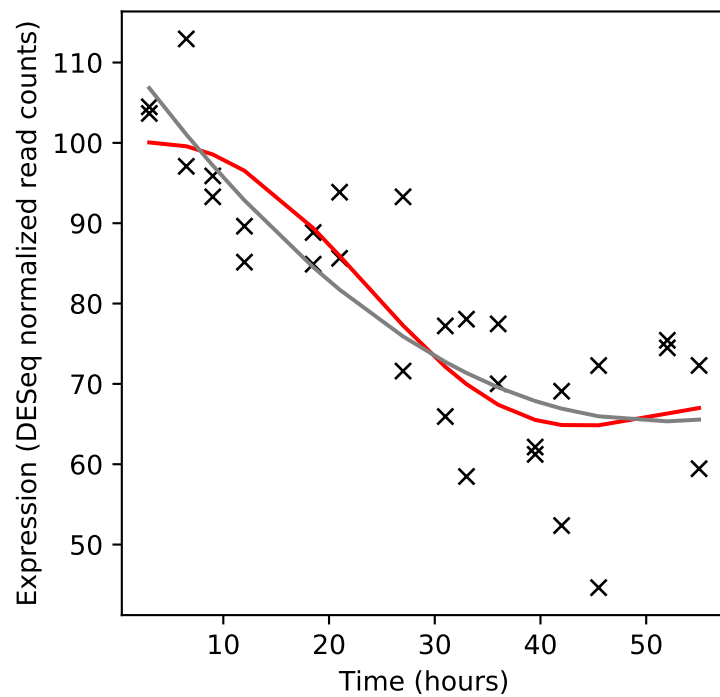
Rv0024/-



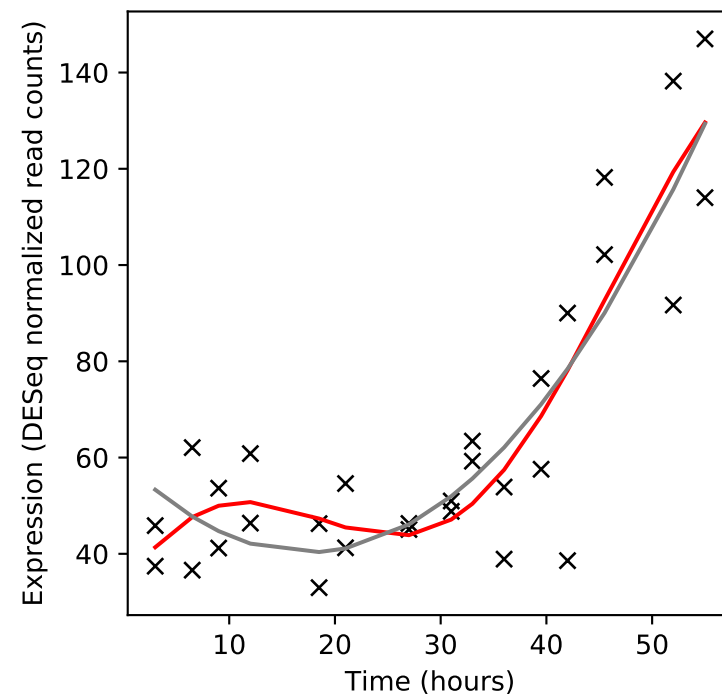
Rv0025/-



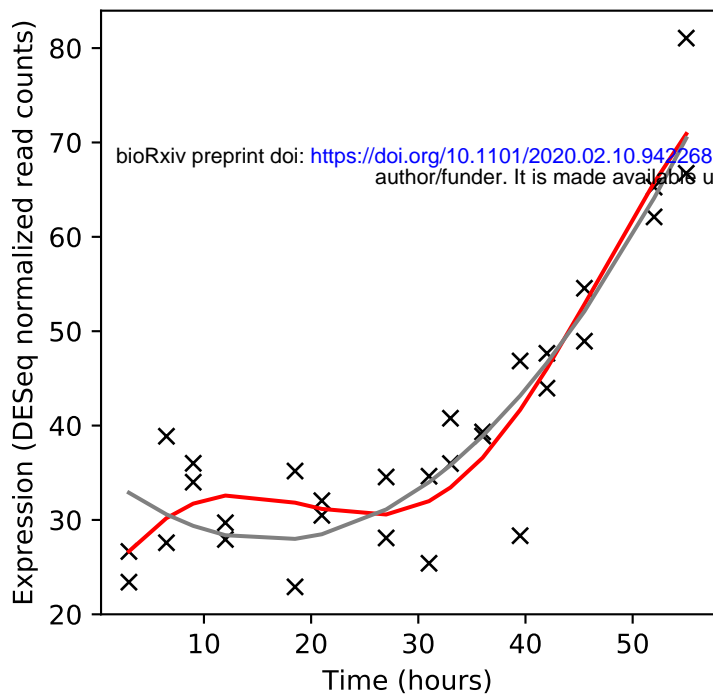
Rv0026/-



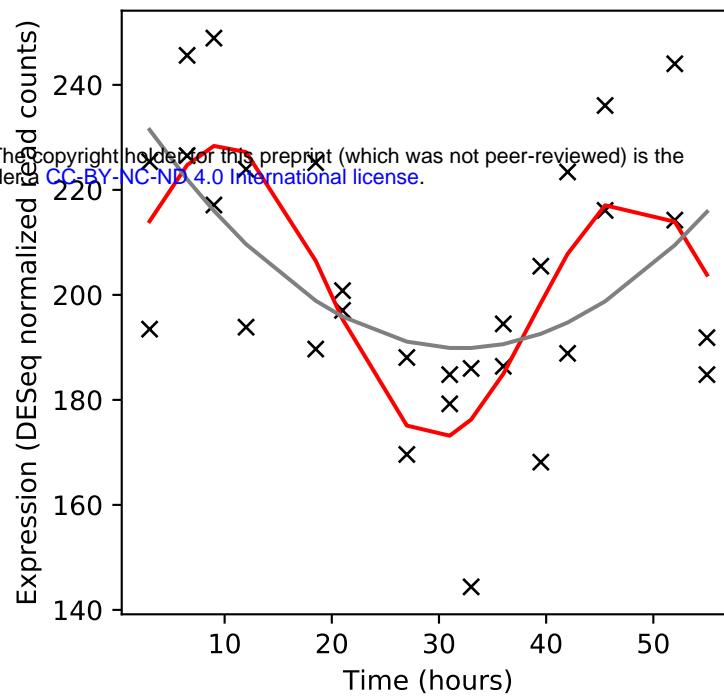
Rv0027/-



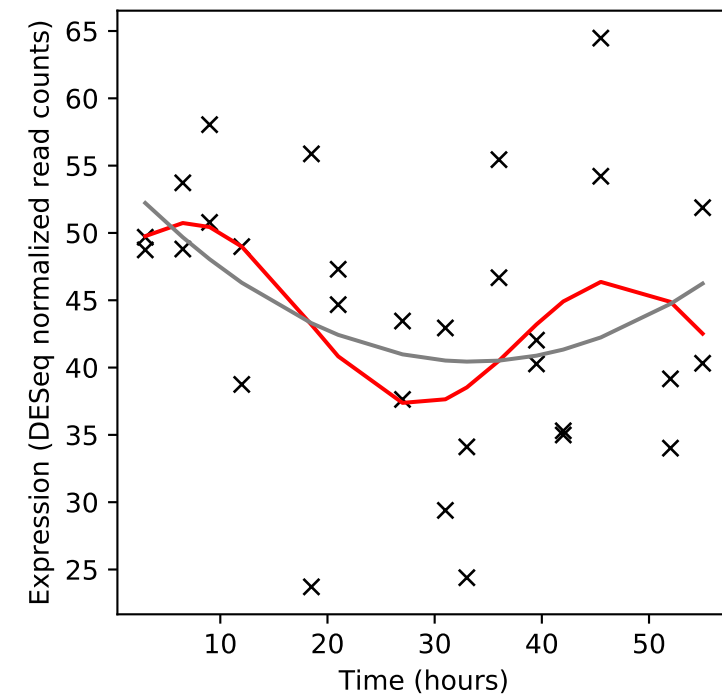
Rv0028/-



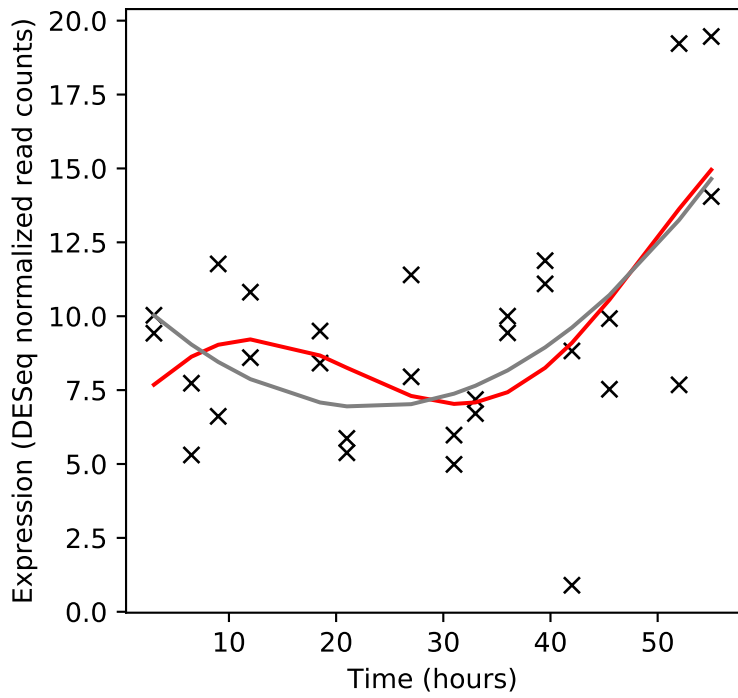
Rv0029/-



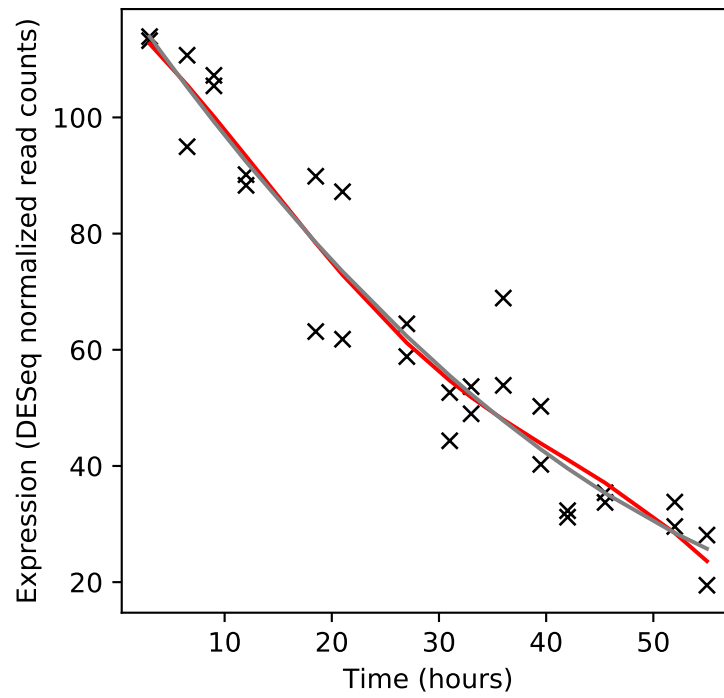
Rv0030/-



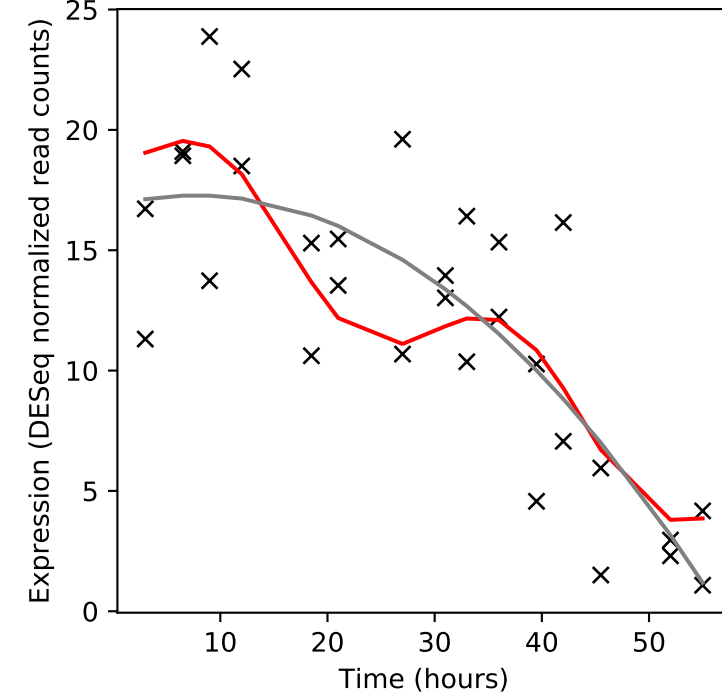
Rv0031/-



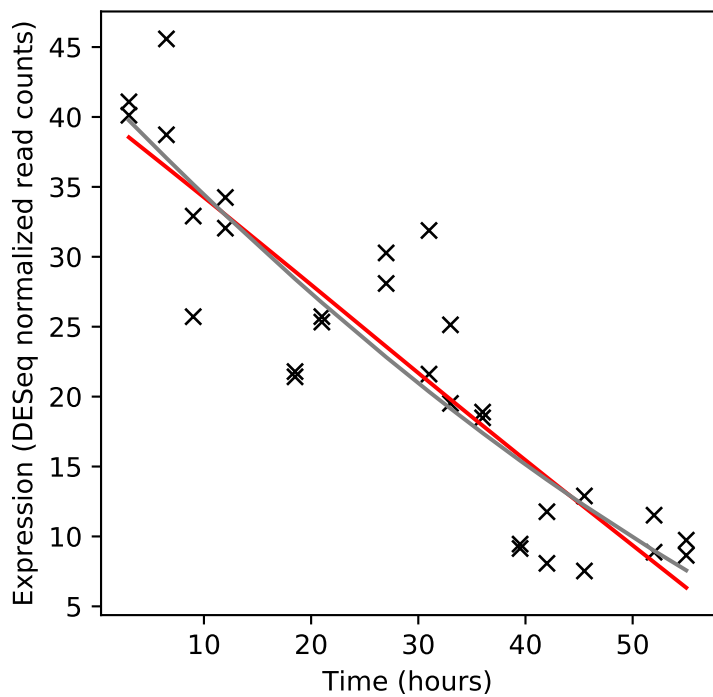
Rv0032/bioF2



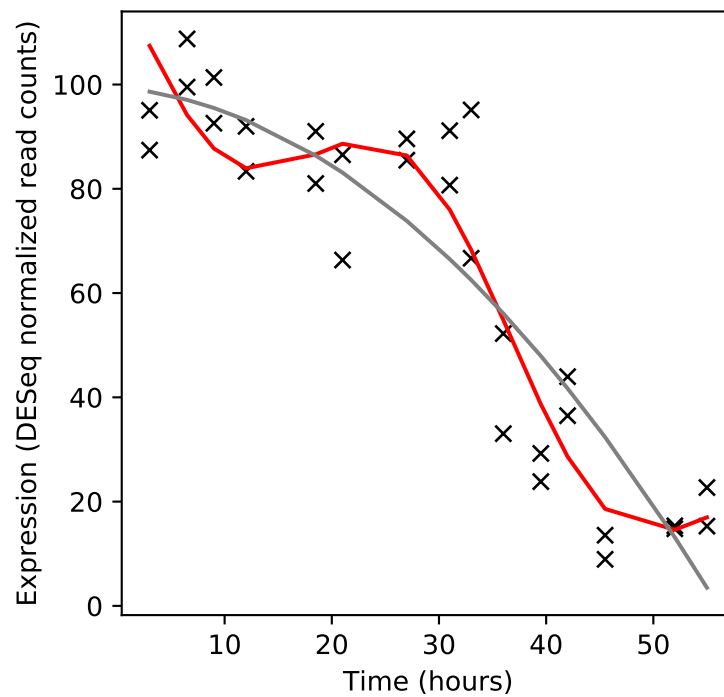
Rv0033/acpA



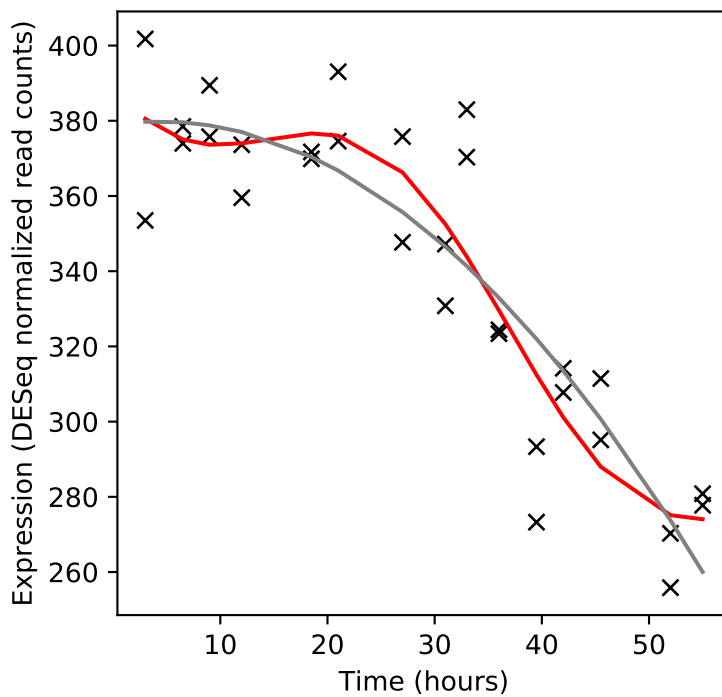
Rv0034/-



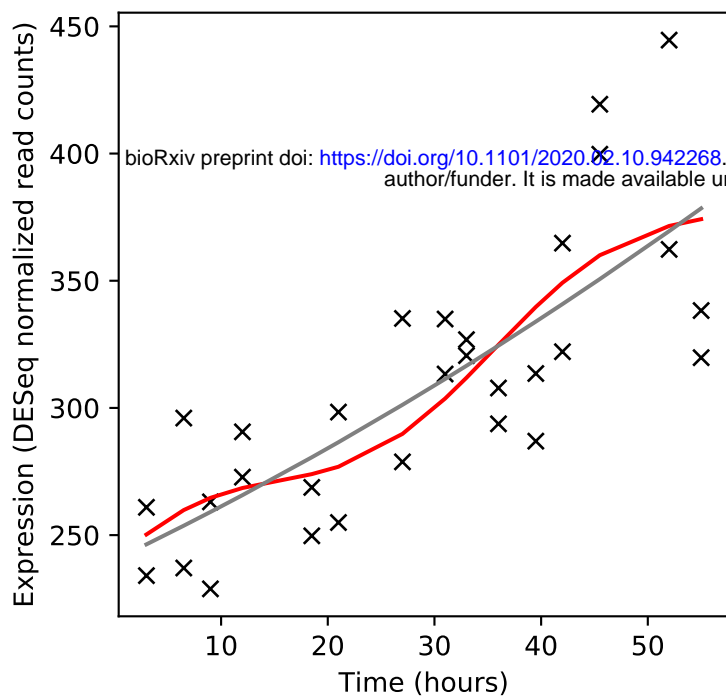
Rv0035/fadD34



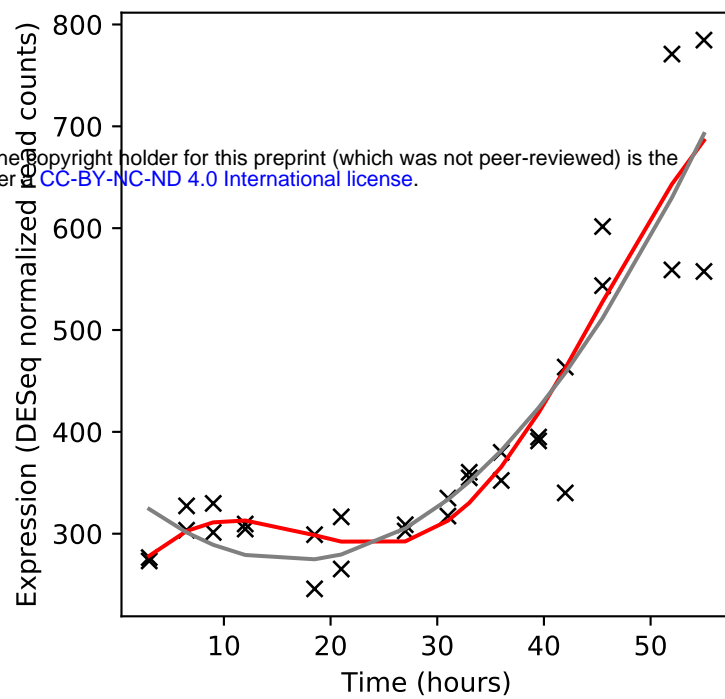
Rv0036c/-



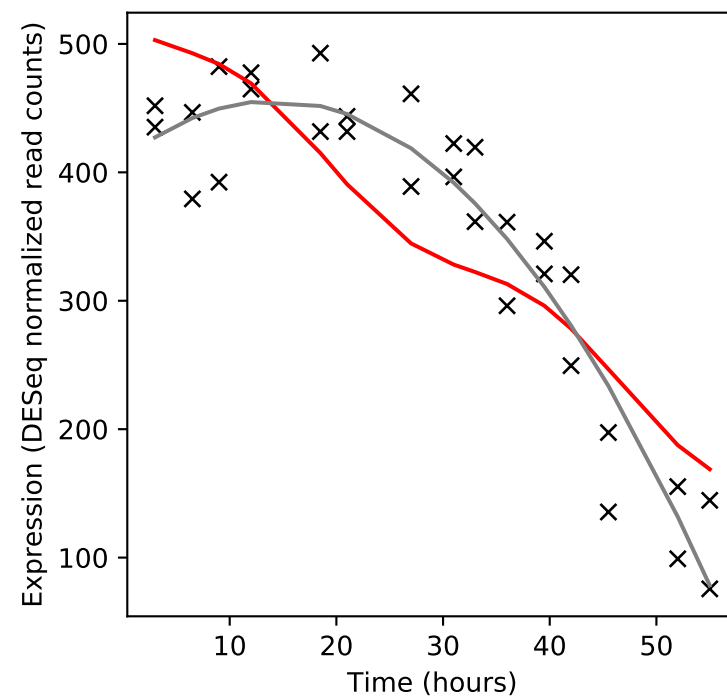
Rv0037c/-



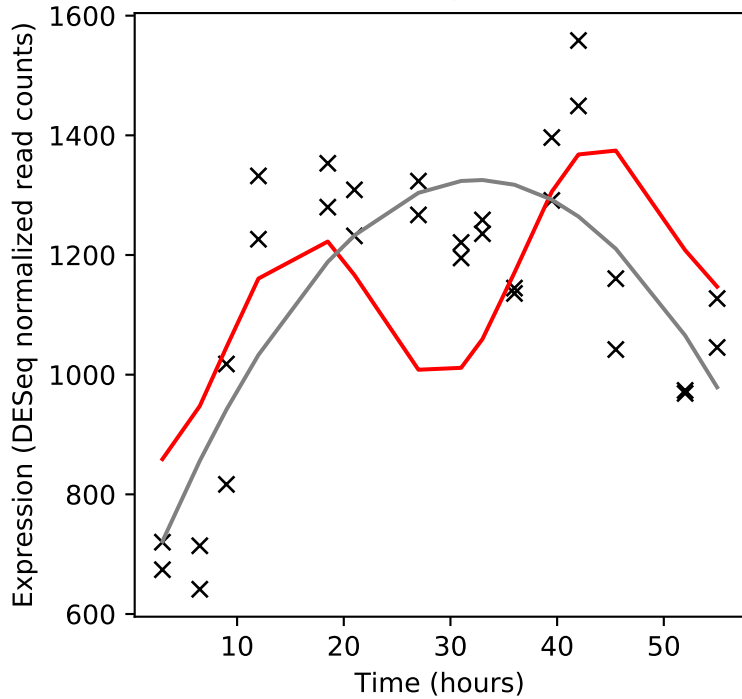
Rv0038/-



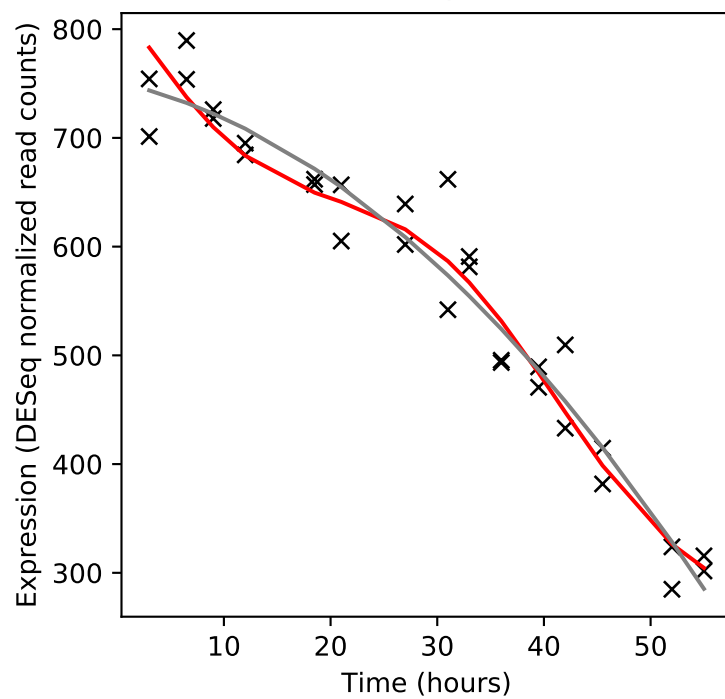
Rv0039c/-



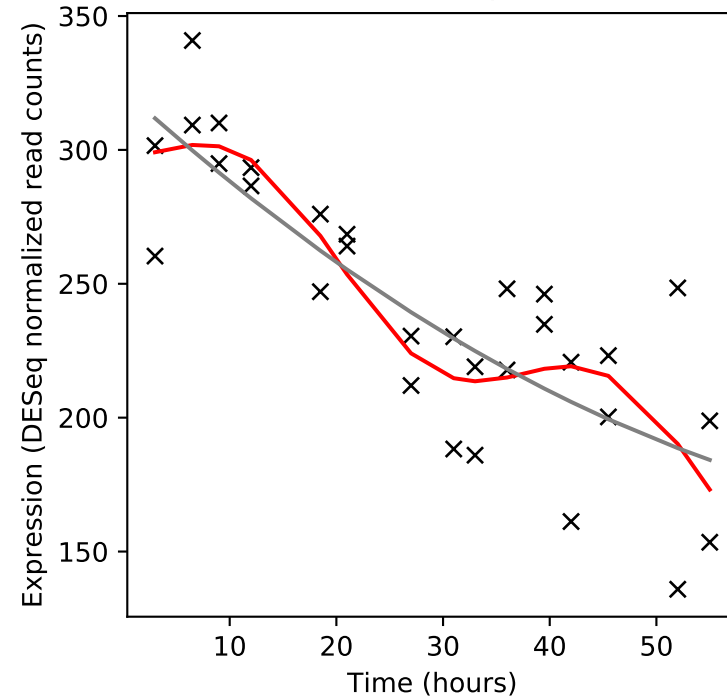
Rv0040c/mtc28



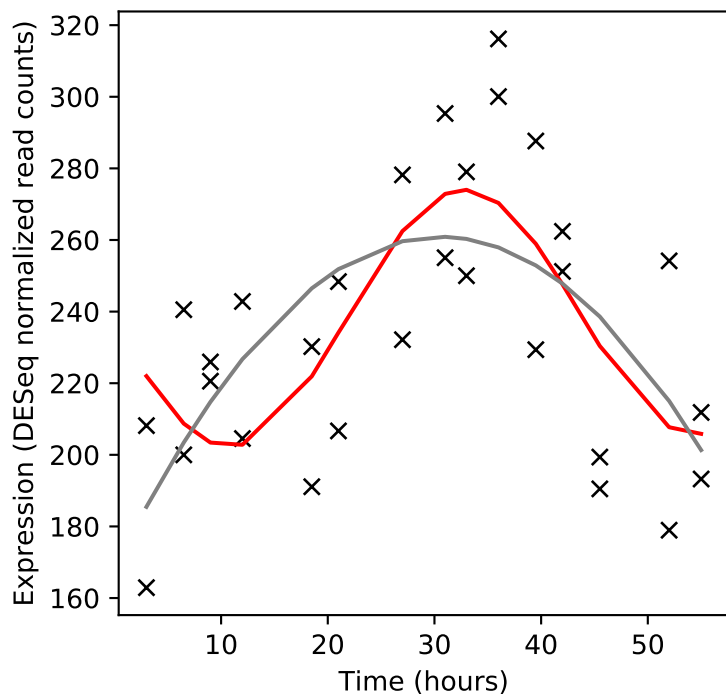
Rv0041/leuS



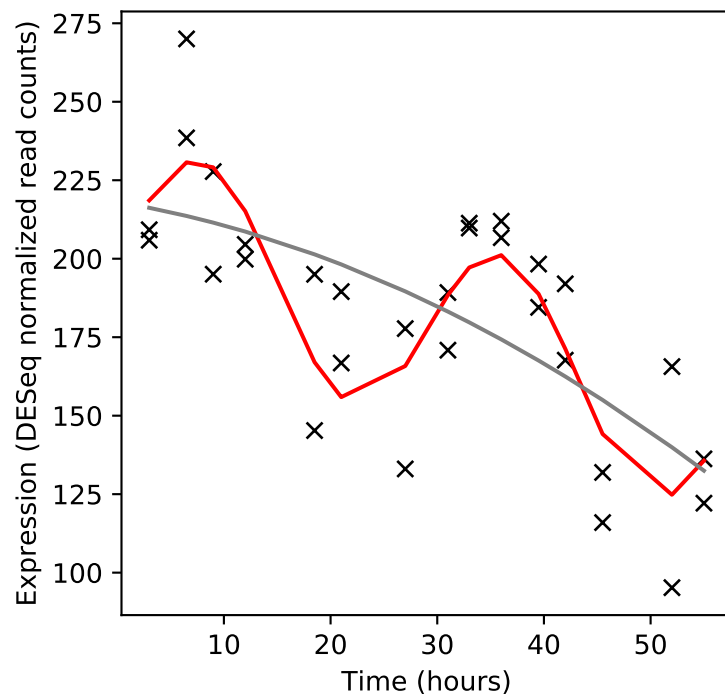
Rv0042c/-



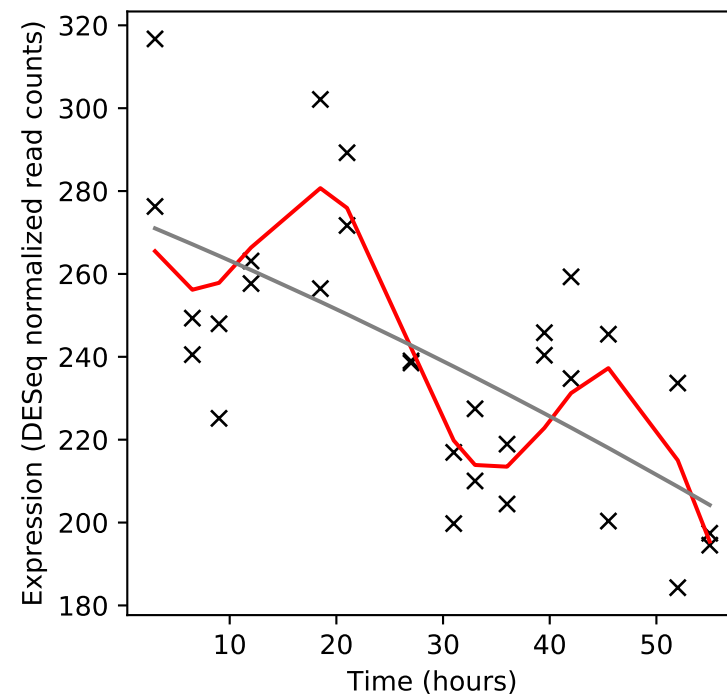
Rv0043c/-



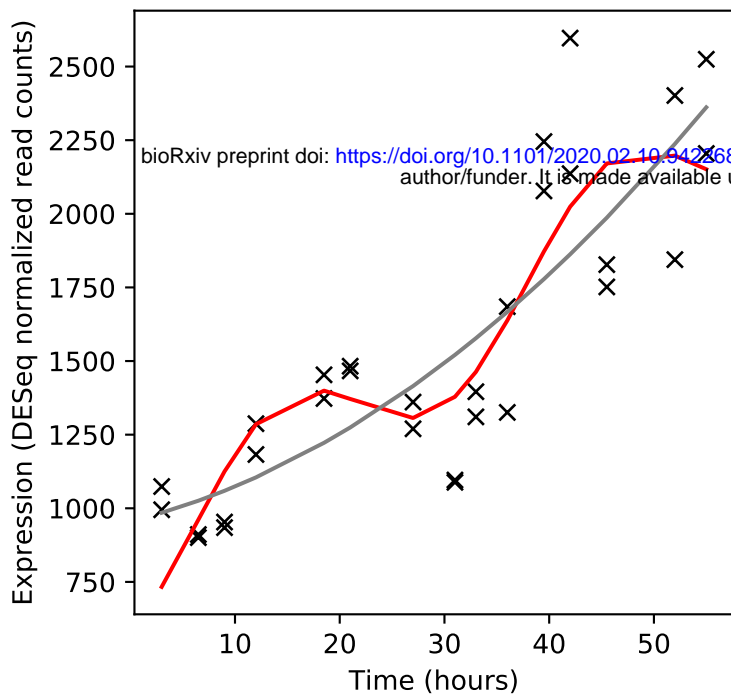
Rv0044c/-



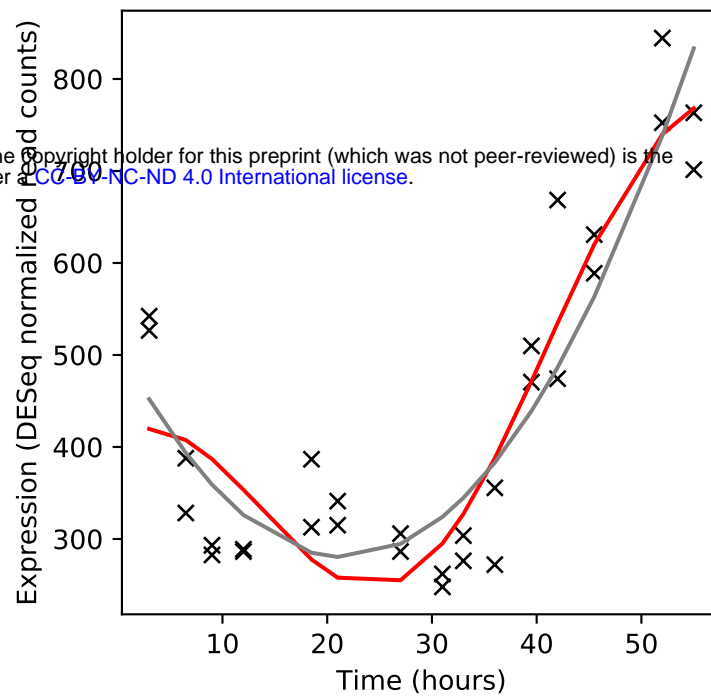
Rv0045c/-



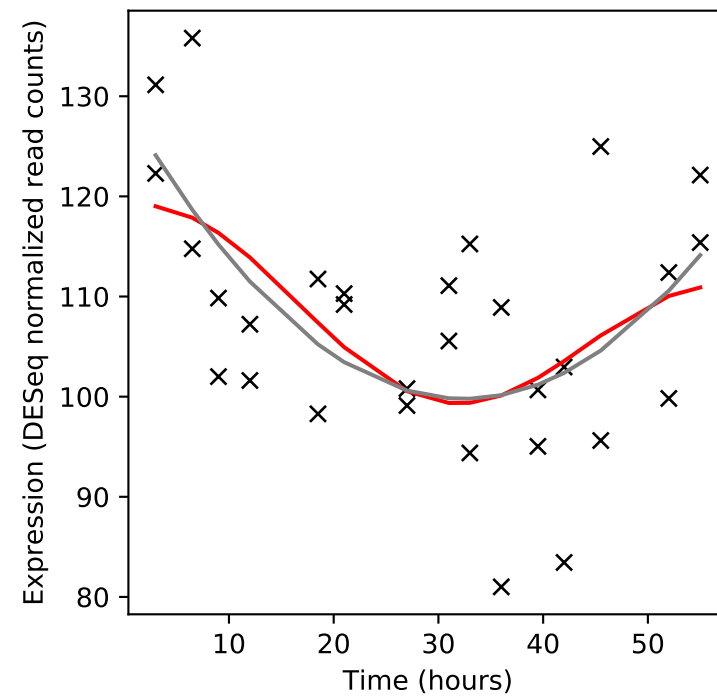
Rv0046c/ino1



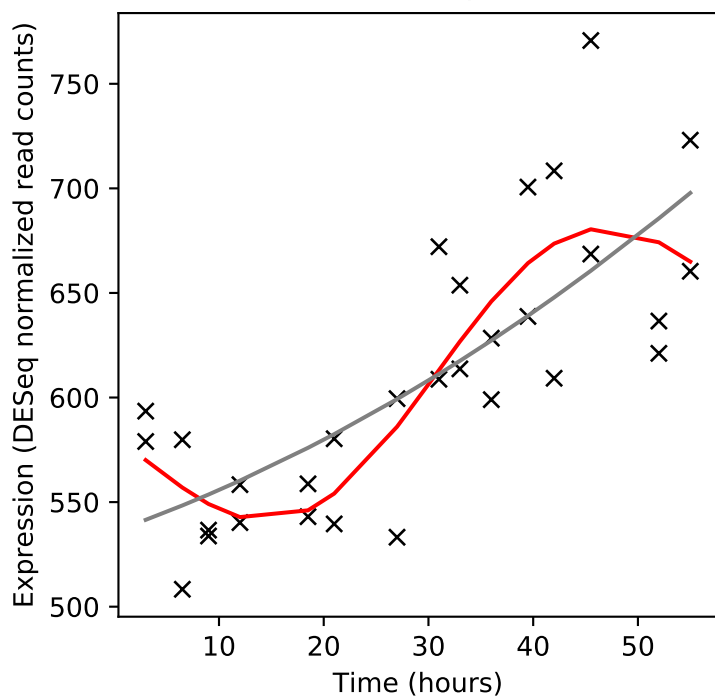
Rv0047c/-



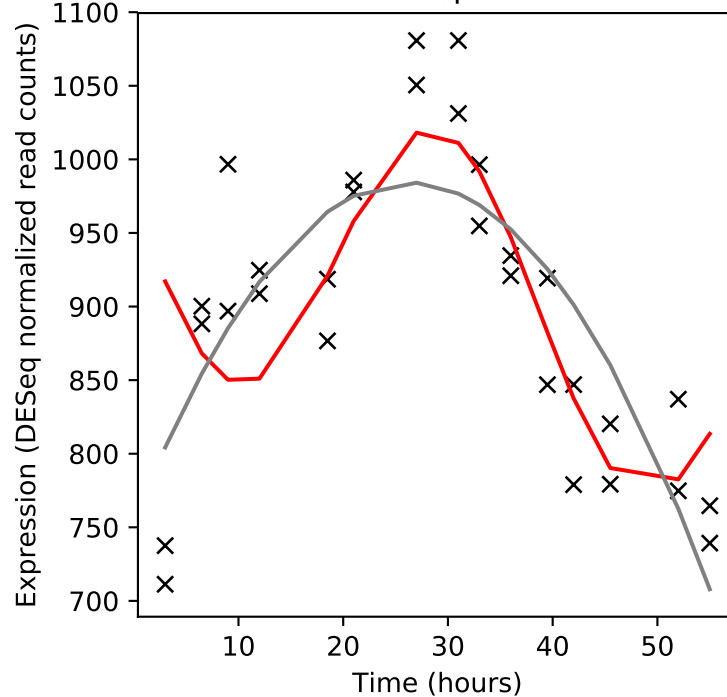
Rv0048c/-



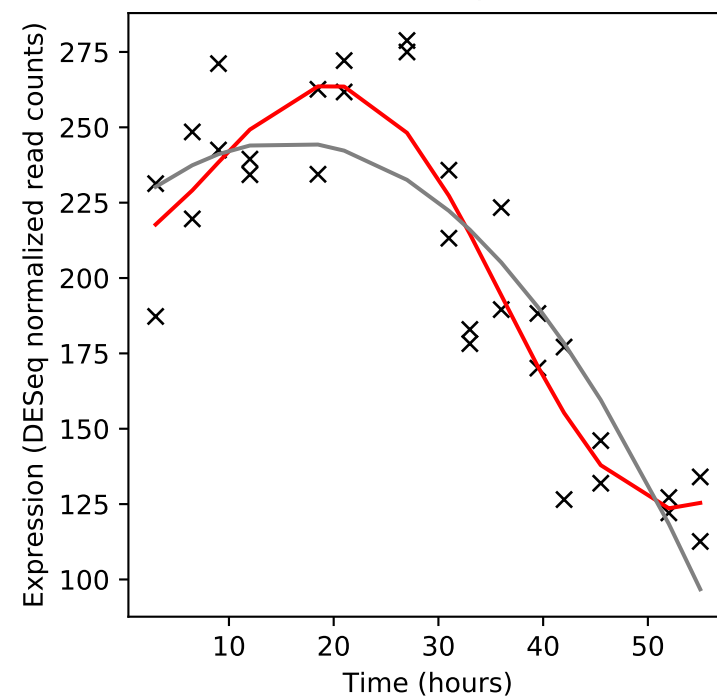
Rv0049/-



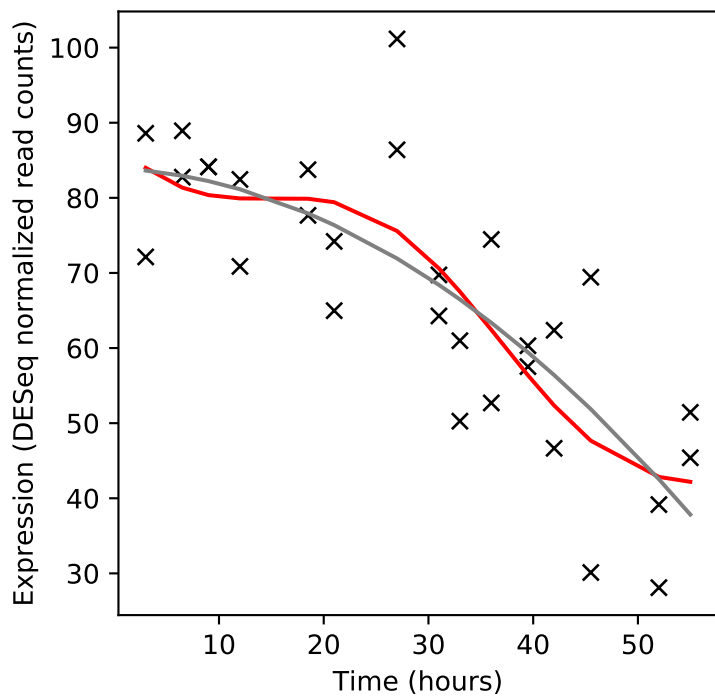
Rv0050/ponA1



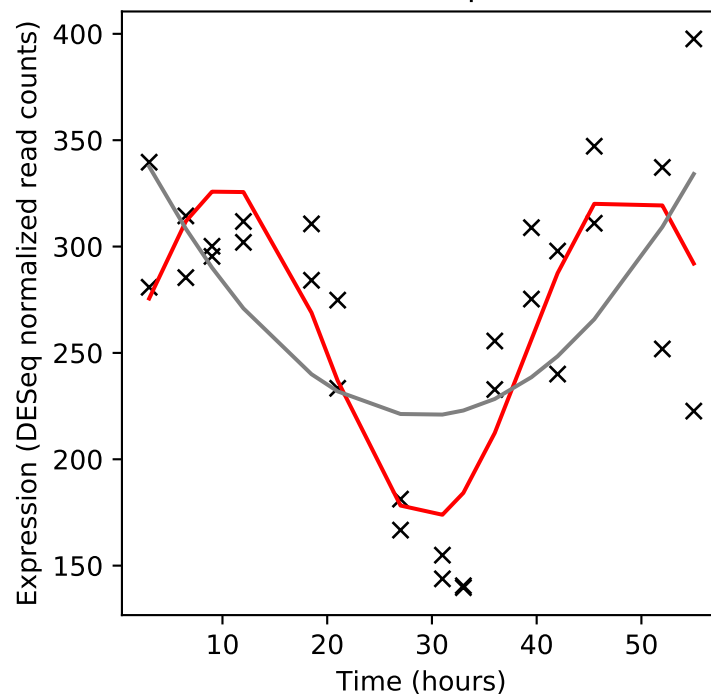
Rv0051/-



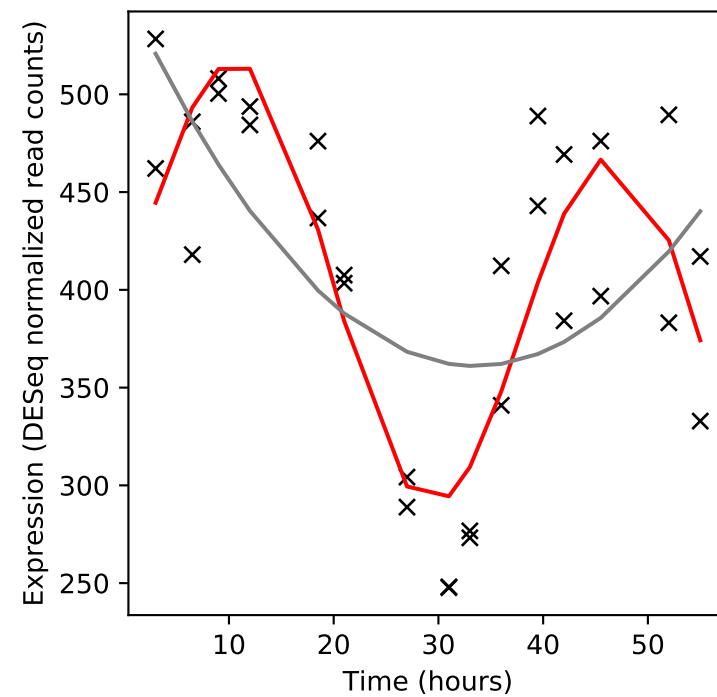
Rv0052/-



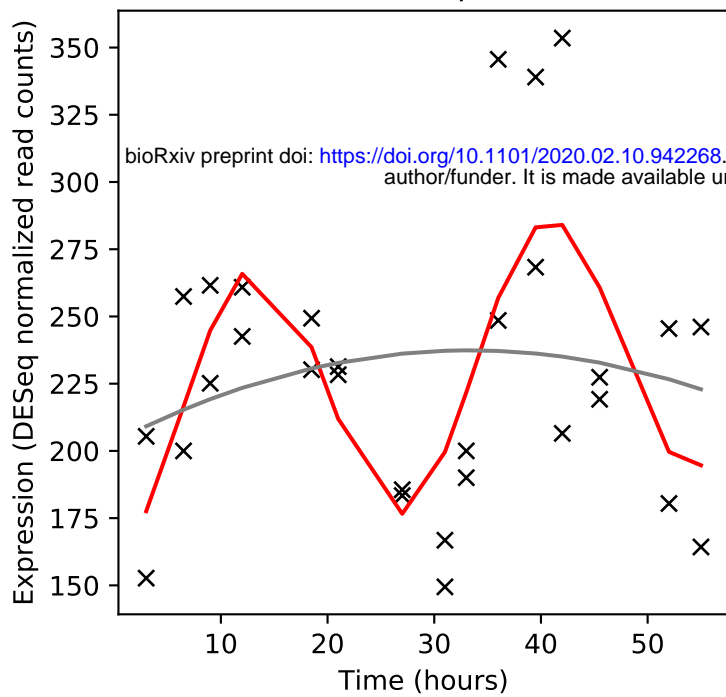
Rv0053/rpsF



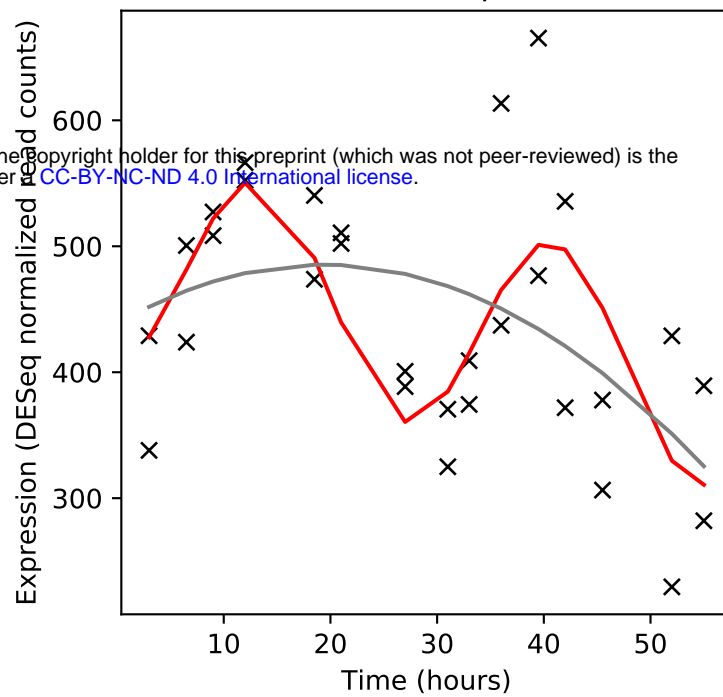
Rv0054/ssb



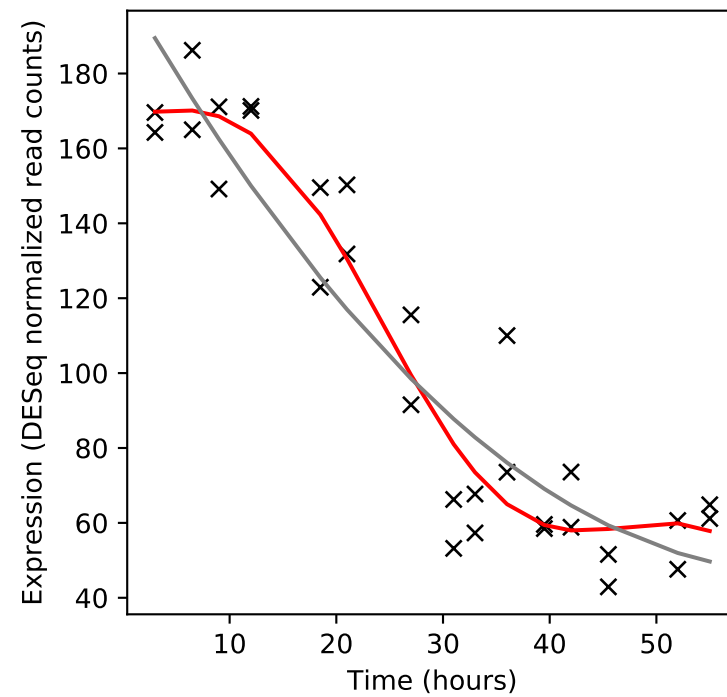
Rv0055/rpsR1



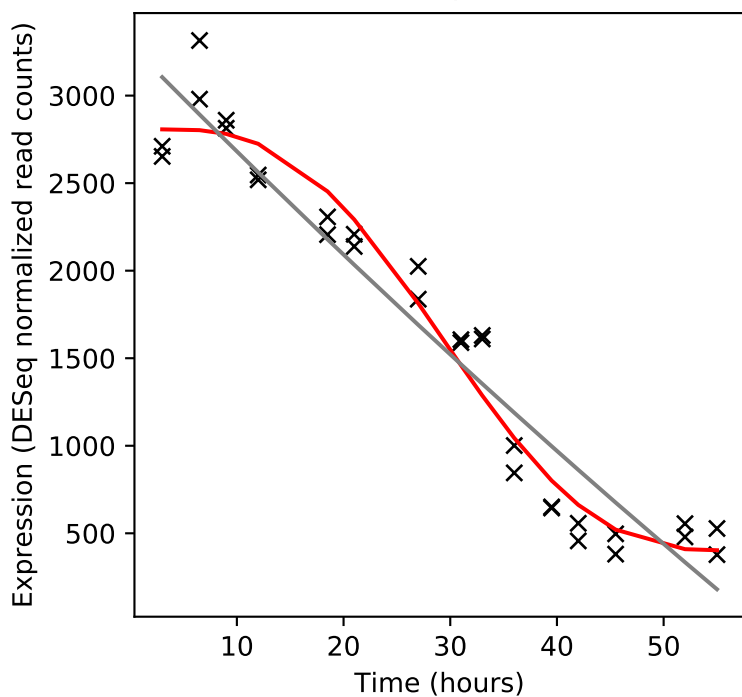
Rv0056/rplI



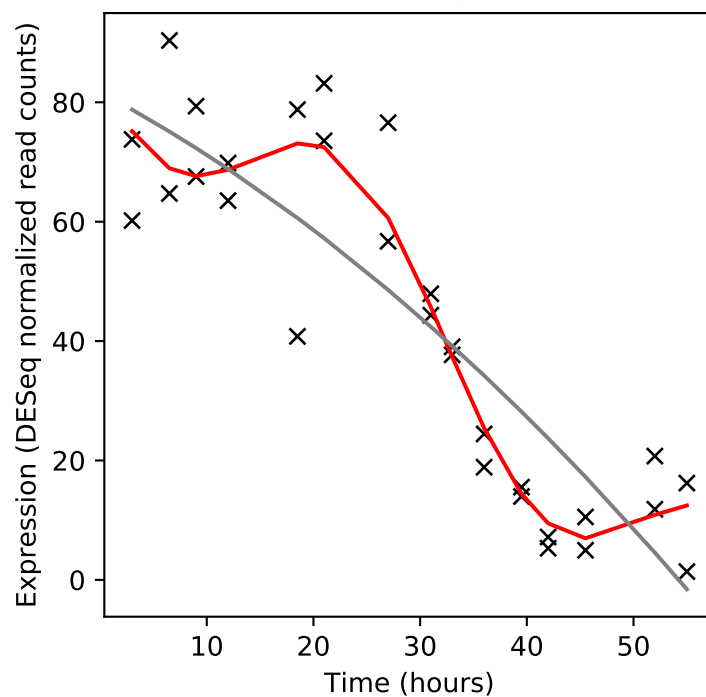
Rv0057/-



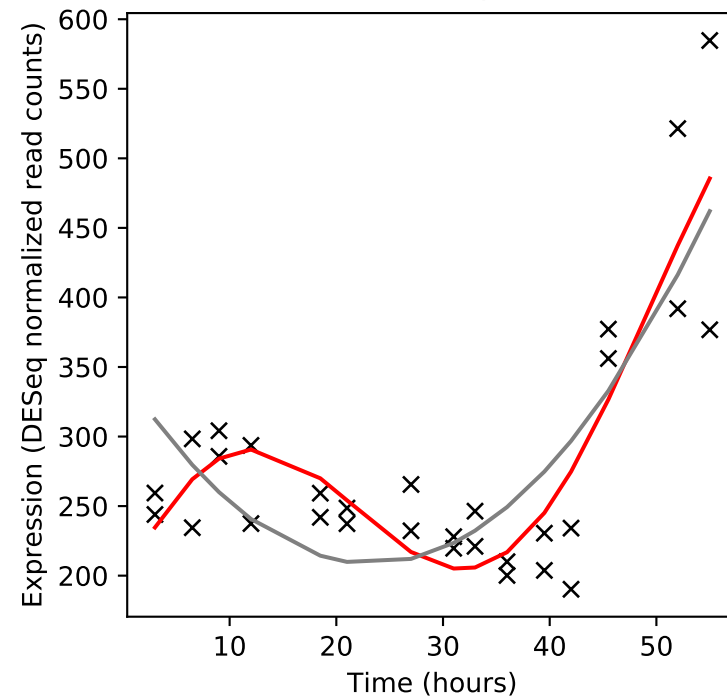
Rv0058/dnaB



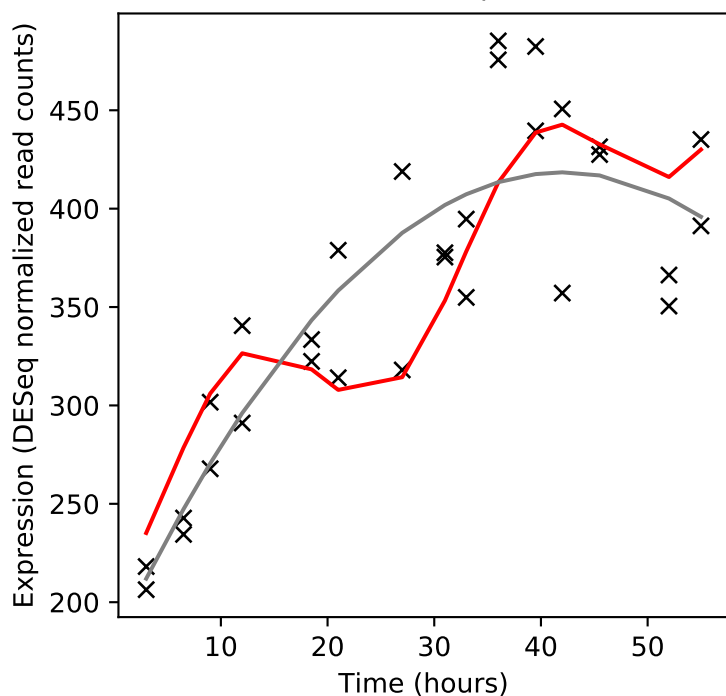
Rv0059/-



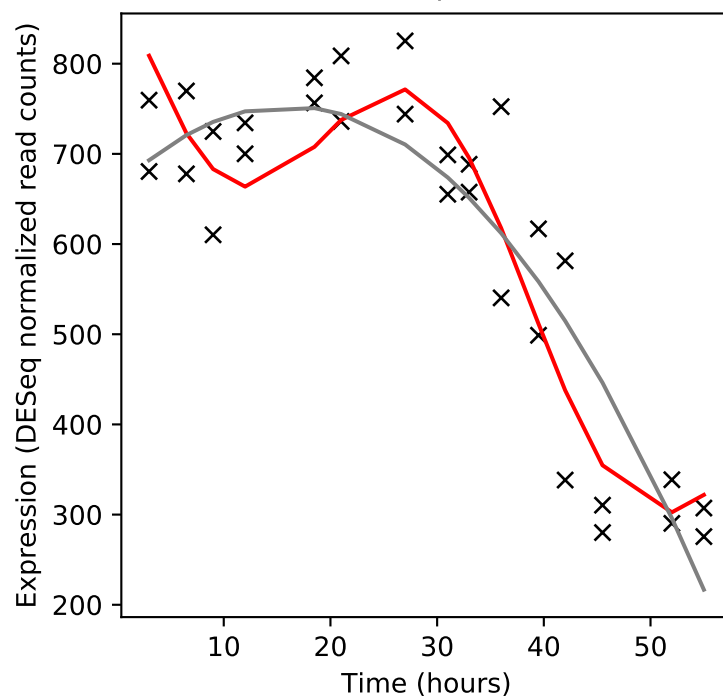
Rv0060/-



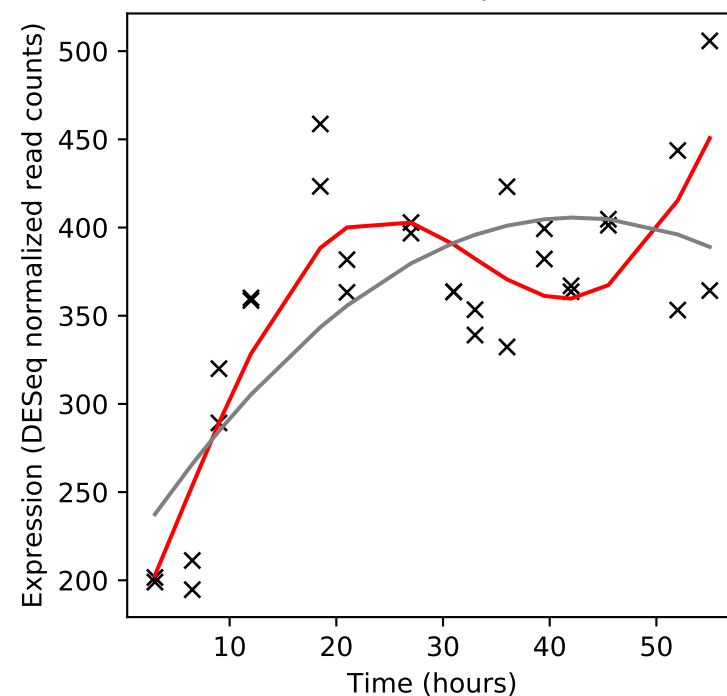
Rv0061c/-



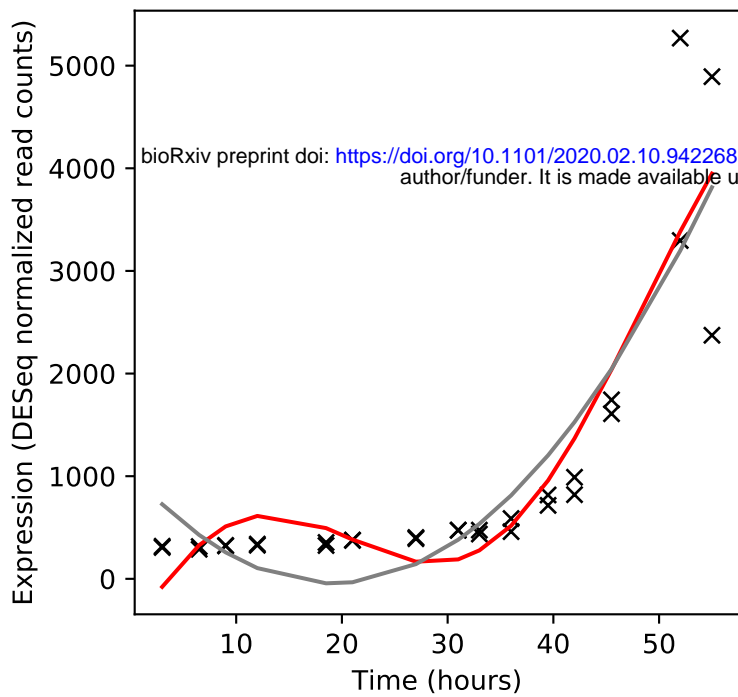
Rv0062/celA1



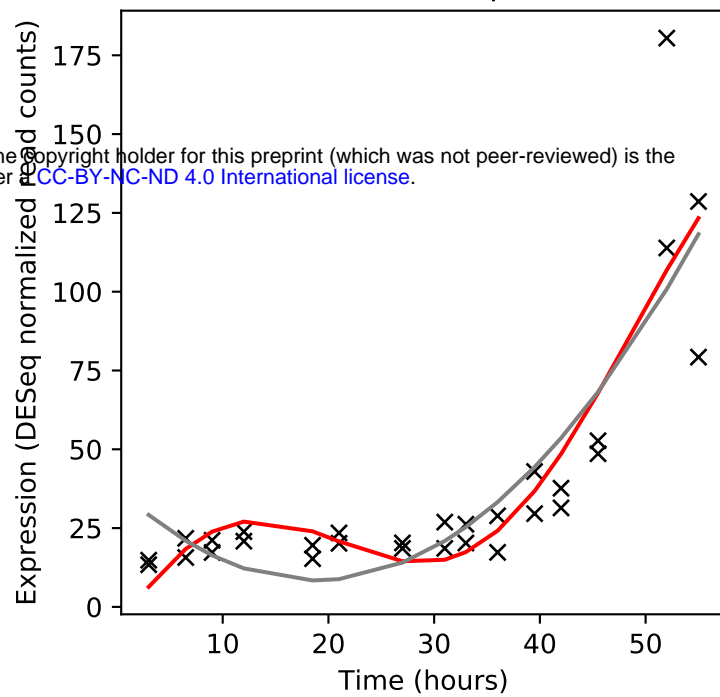
Rv0063/-



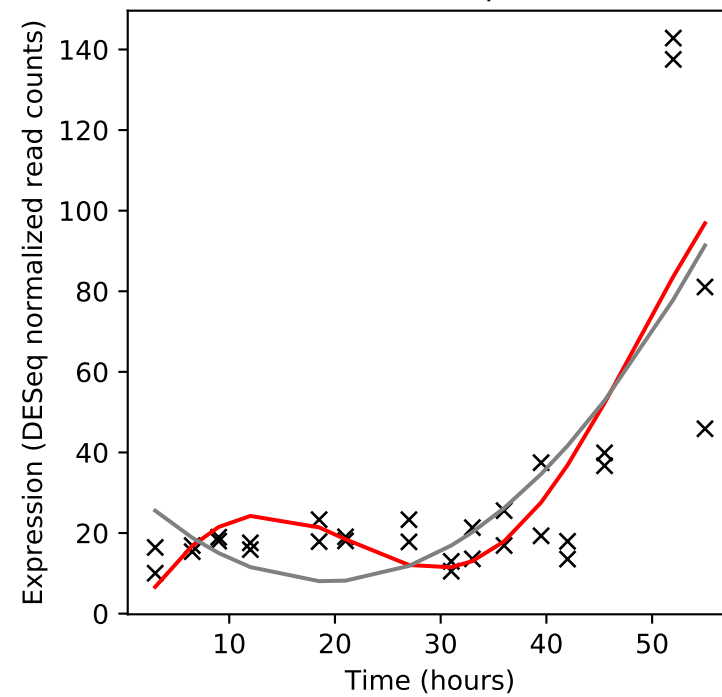
Rv0064/-



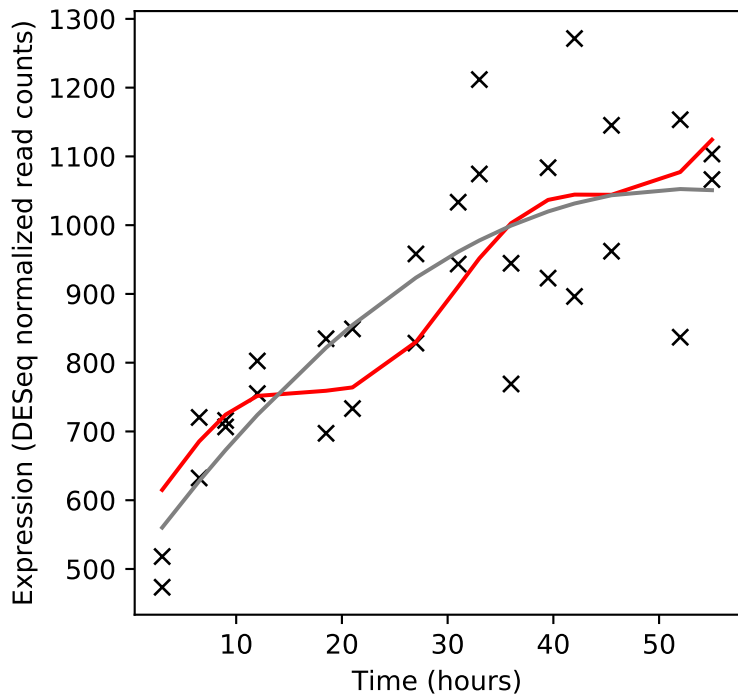
Rv0064A/vapB1



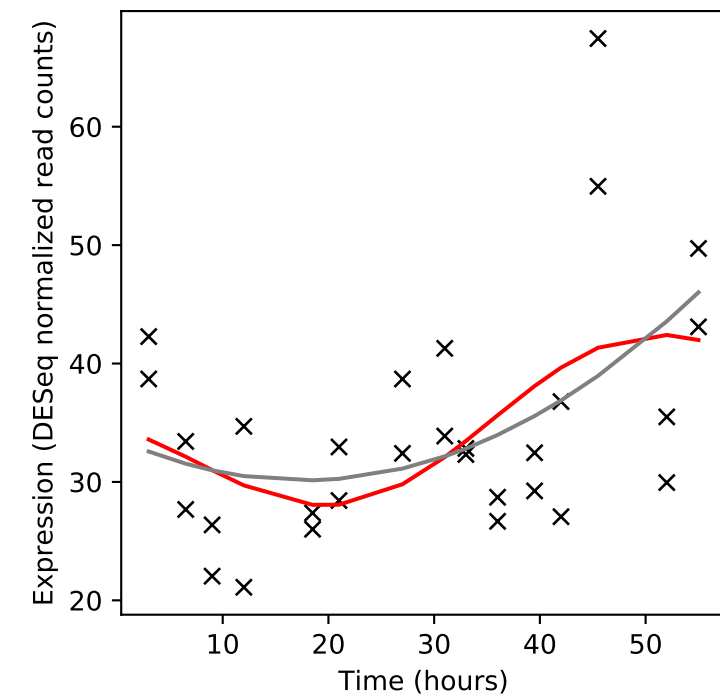
Rv0065/vapC1



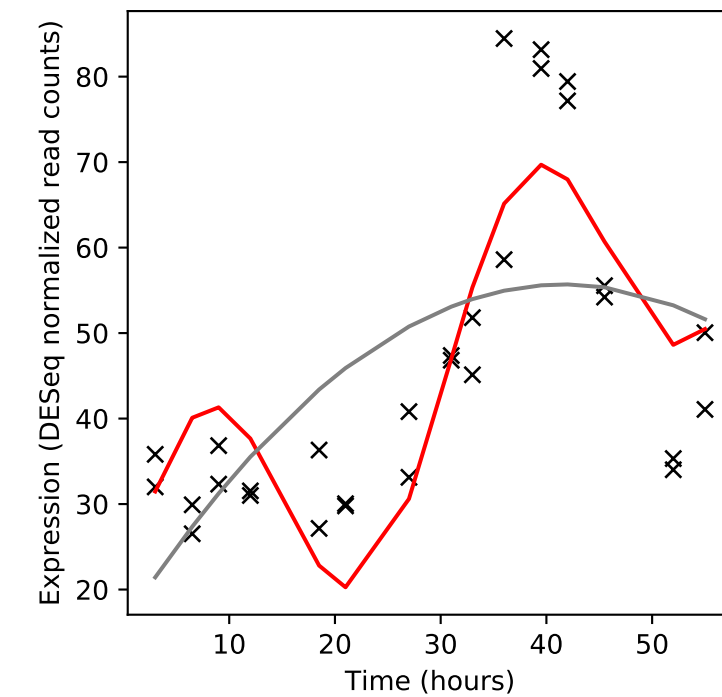
Rv0066c/icd2



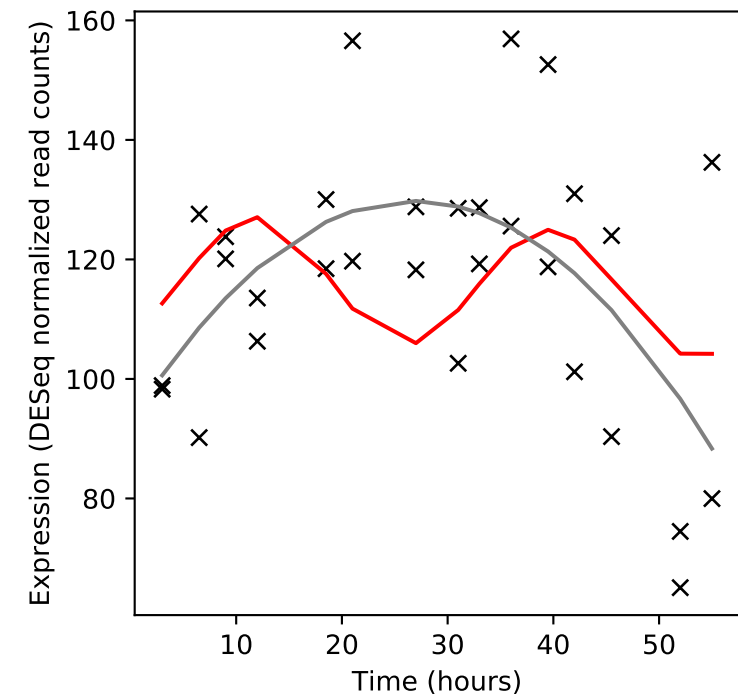
Rv0067c/-



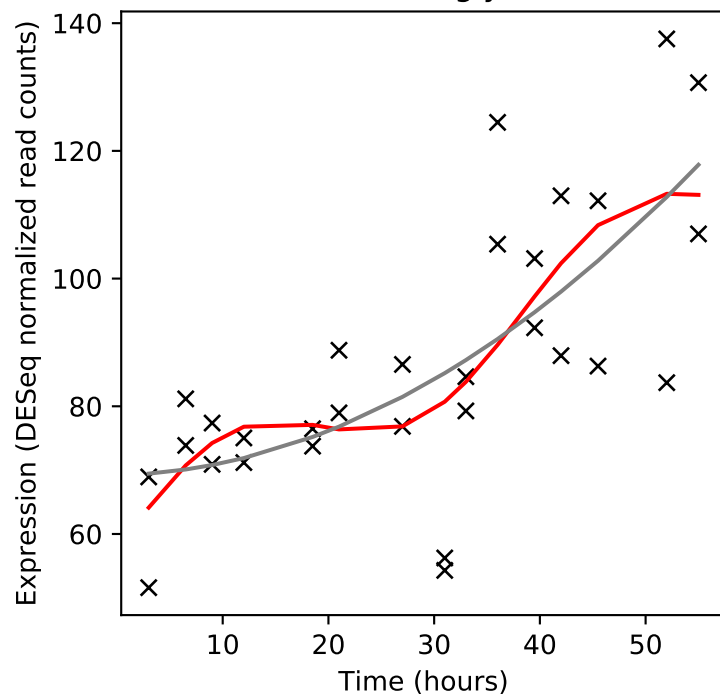
Rv0068/-



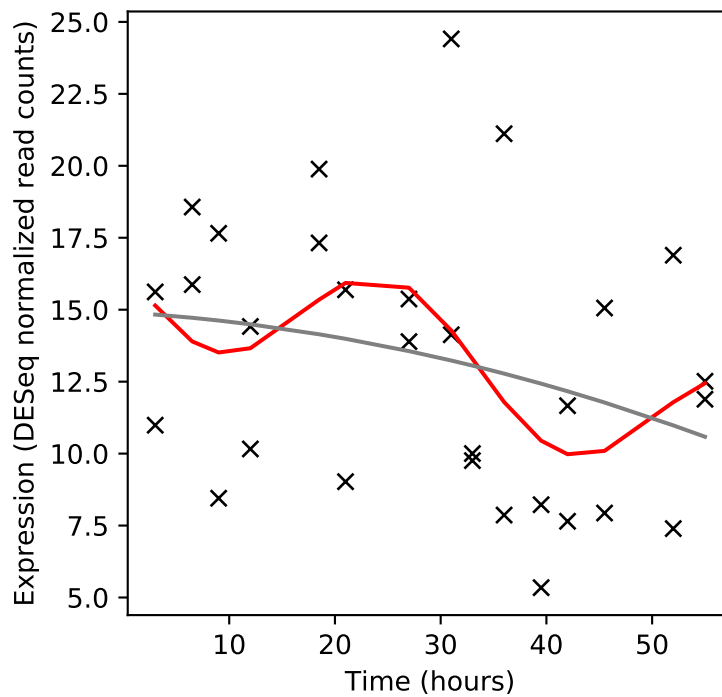
Rv0069c/sdaA



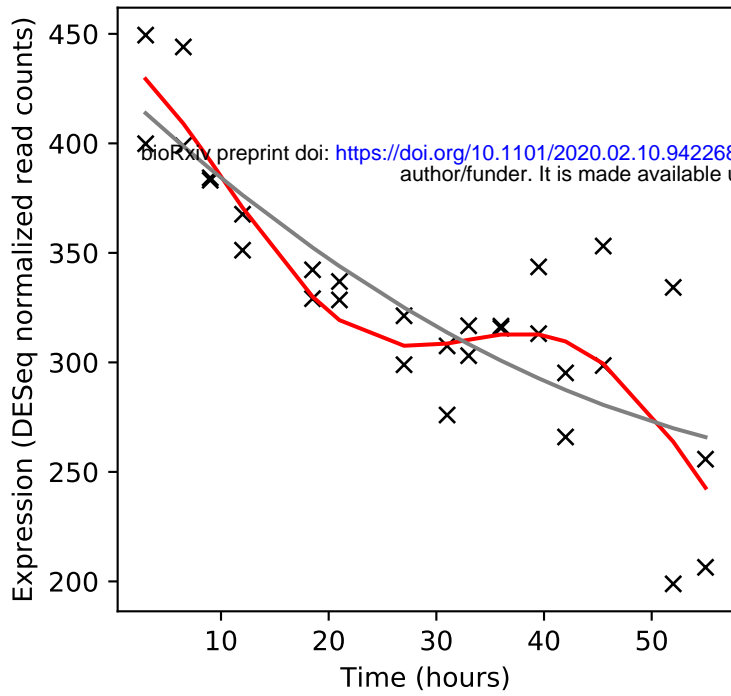
Rv0070c/glyA2



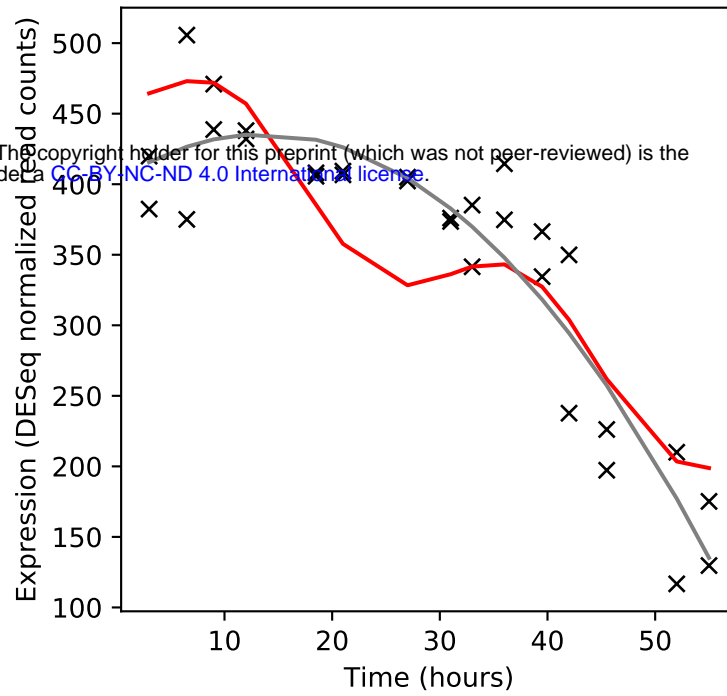
Rv0071/-



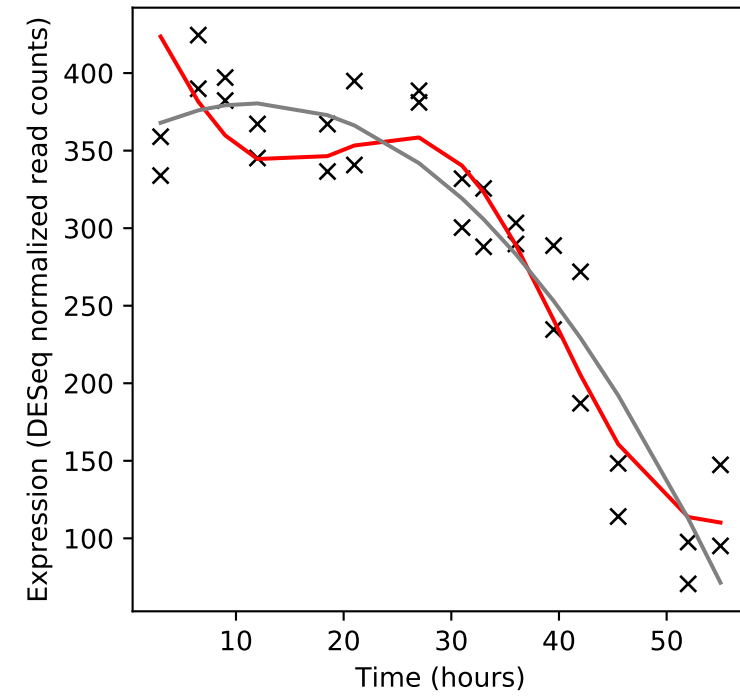
Rv0072/-



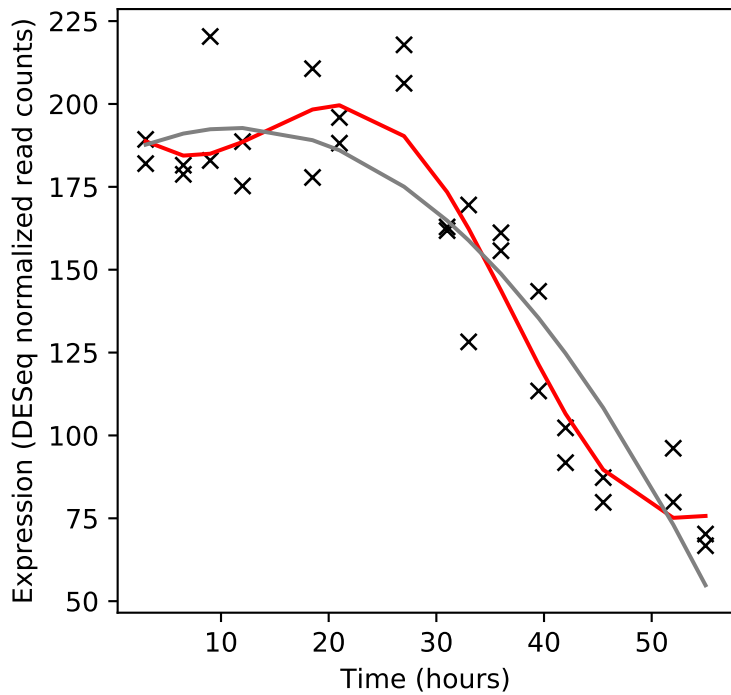
Rv0073/-



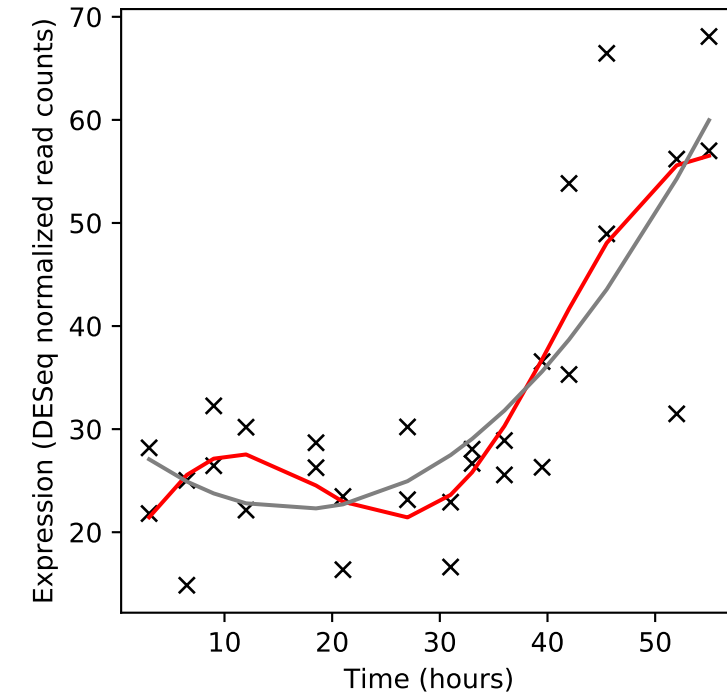
Rv0074/-



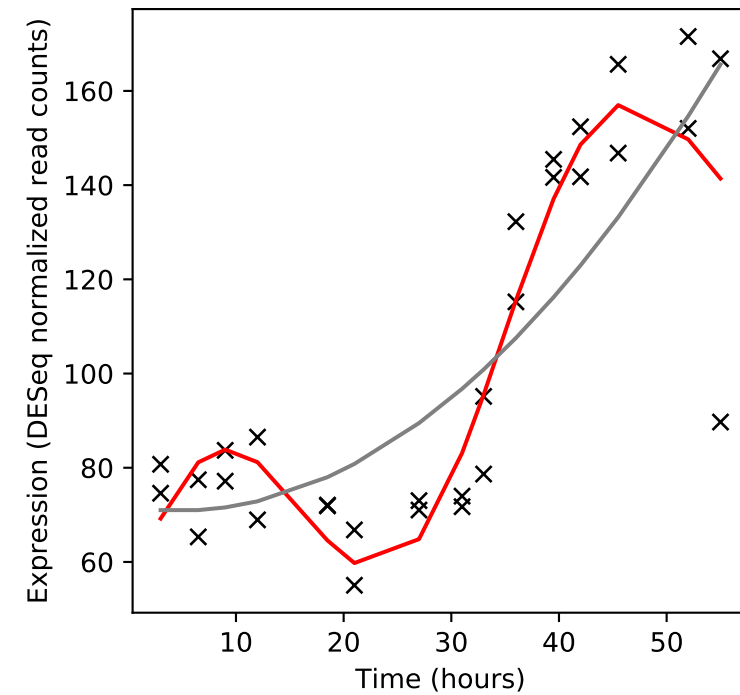
Rv0075/-



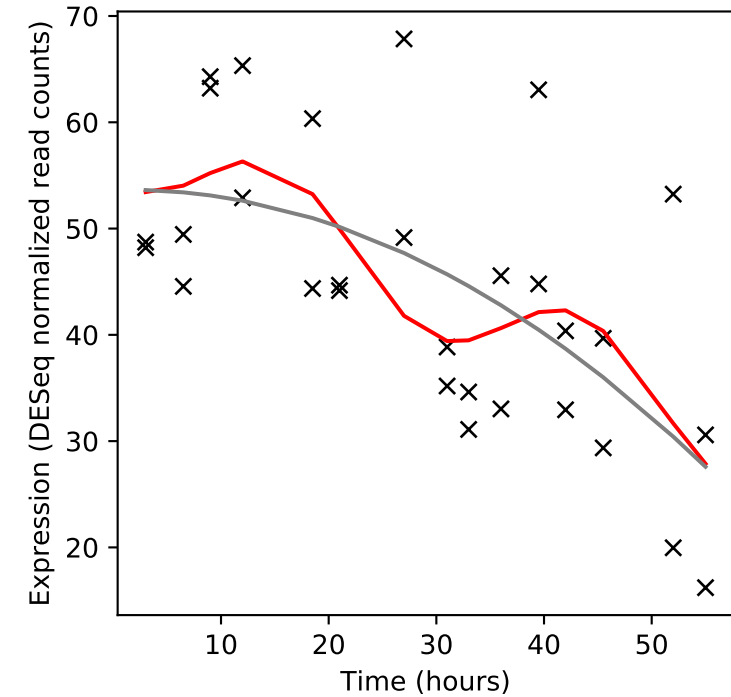
Rv0076c/-



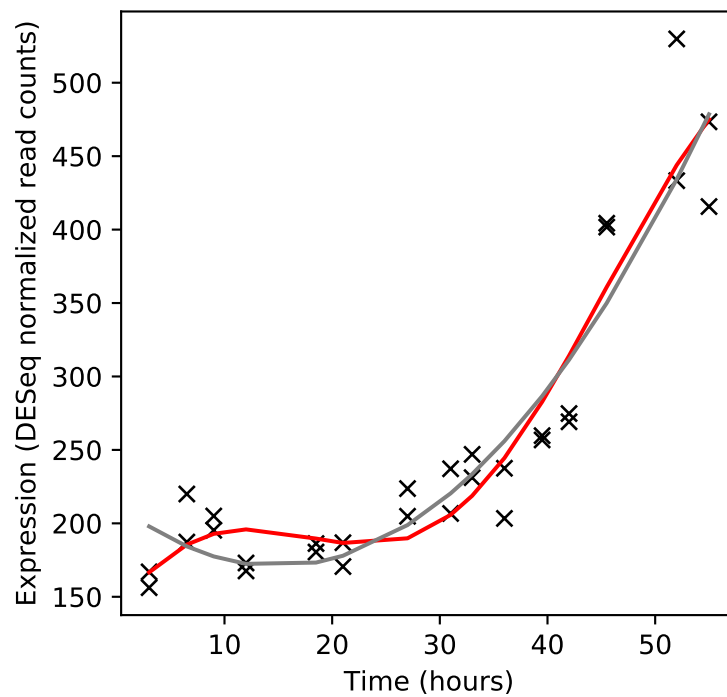
Rv0077c/-



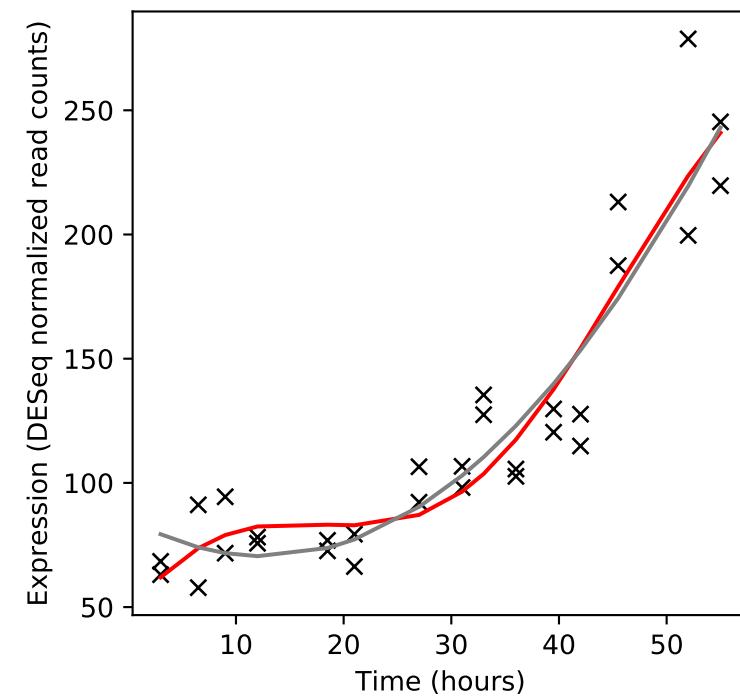
Rv0078/-



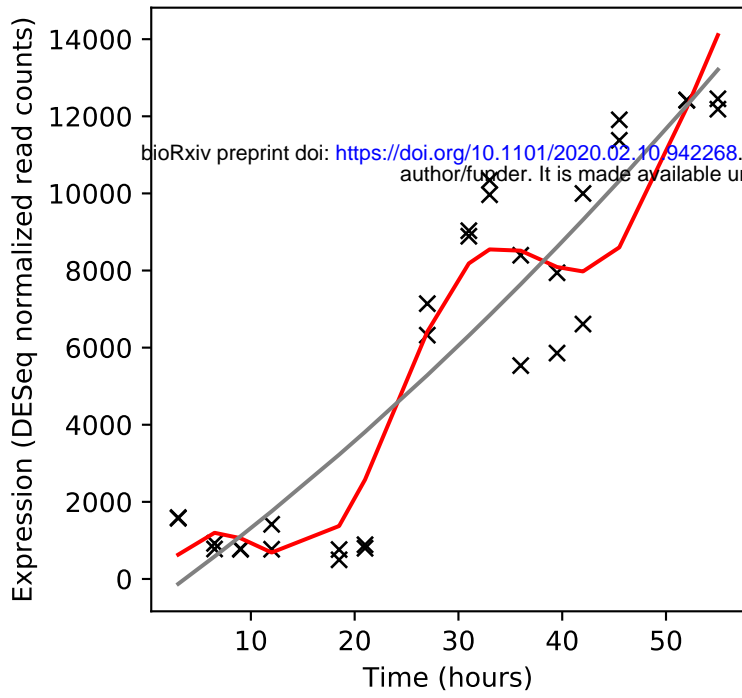
Rv0078A/-



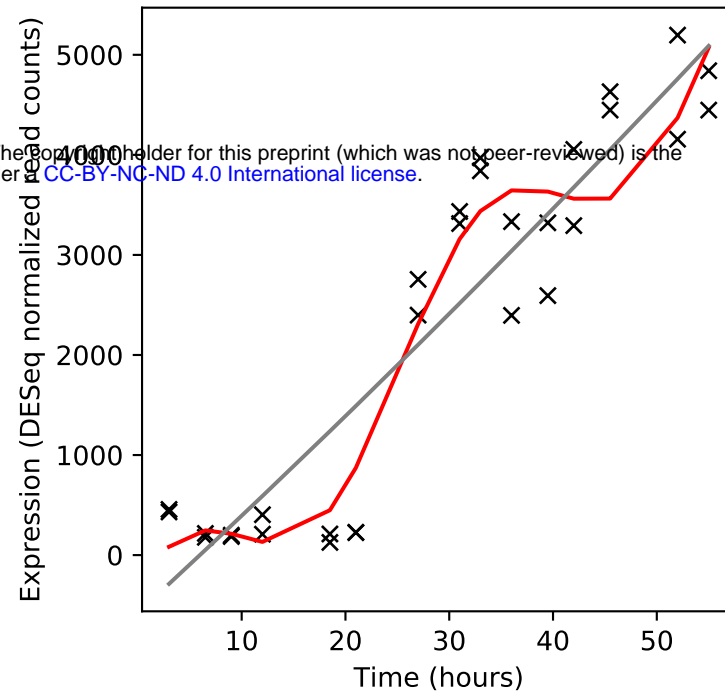
Rv0078B/-



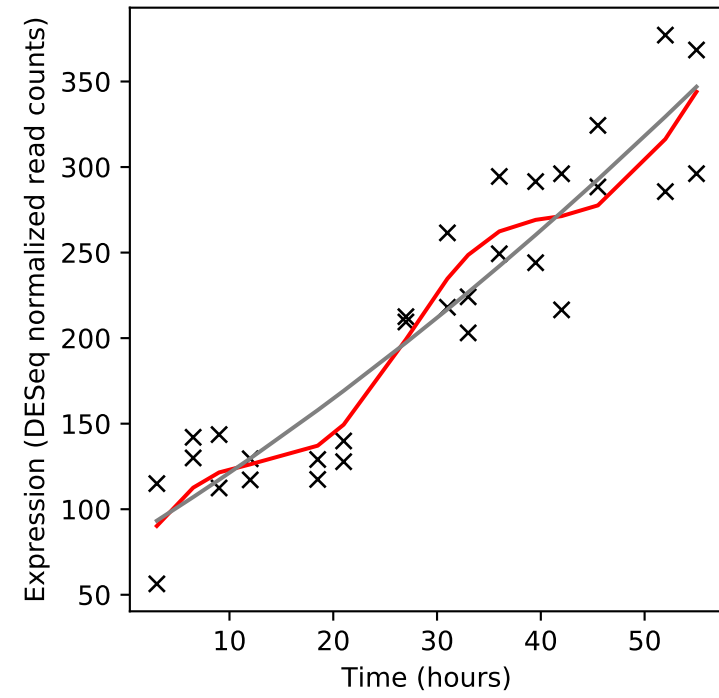
Rv0079/-



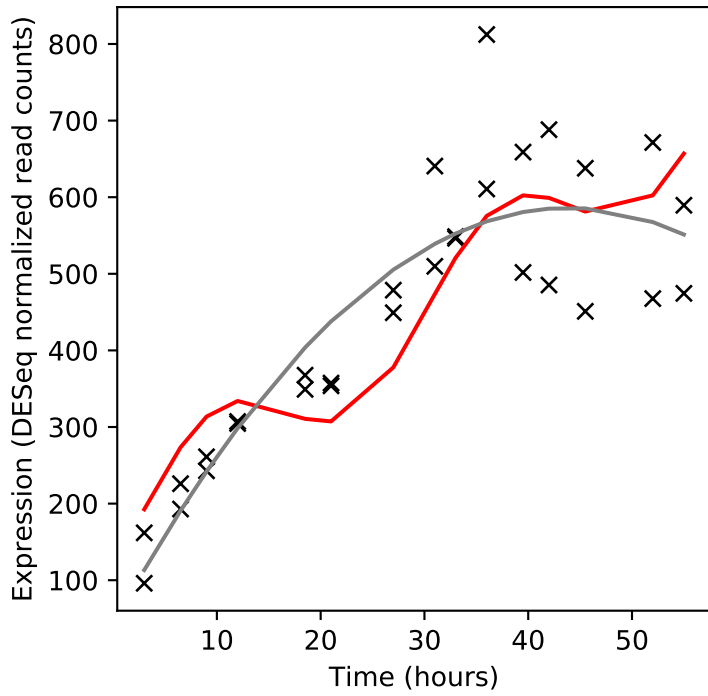
Rv0080/-



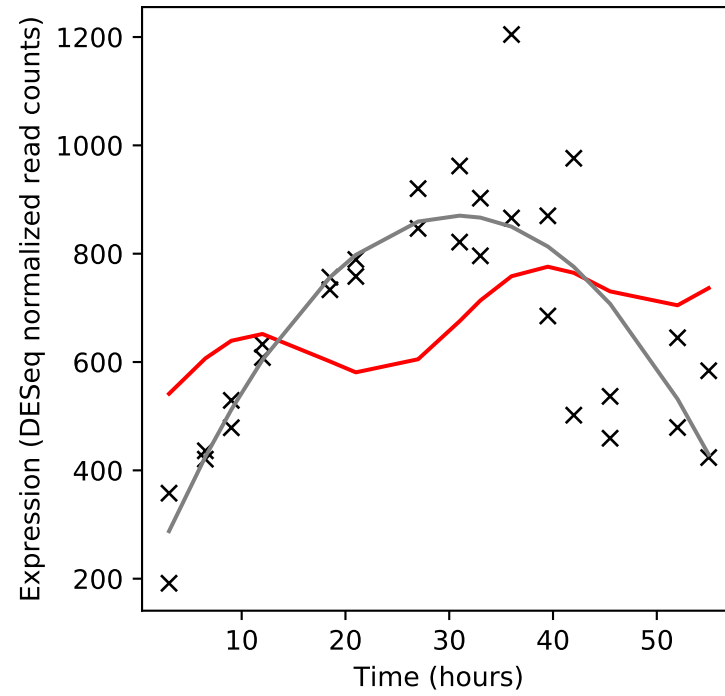
Rv0081/-



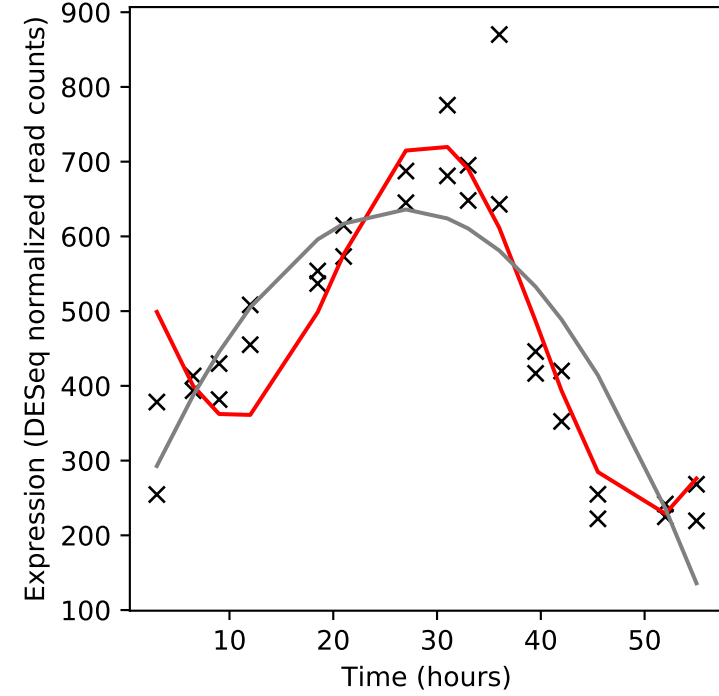
Rv0082/-



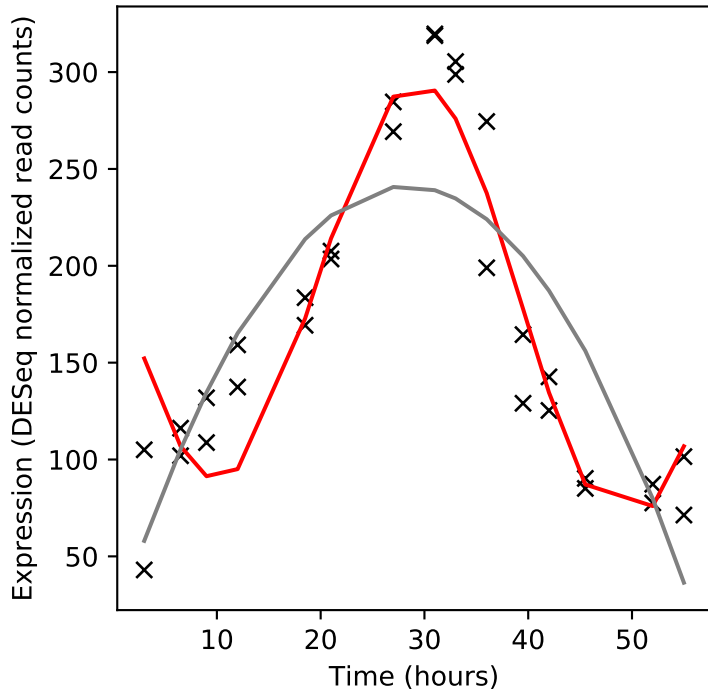
Rv0083/-



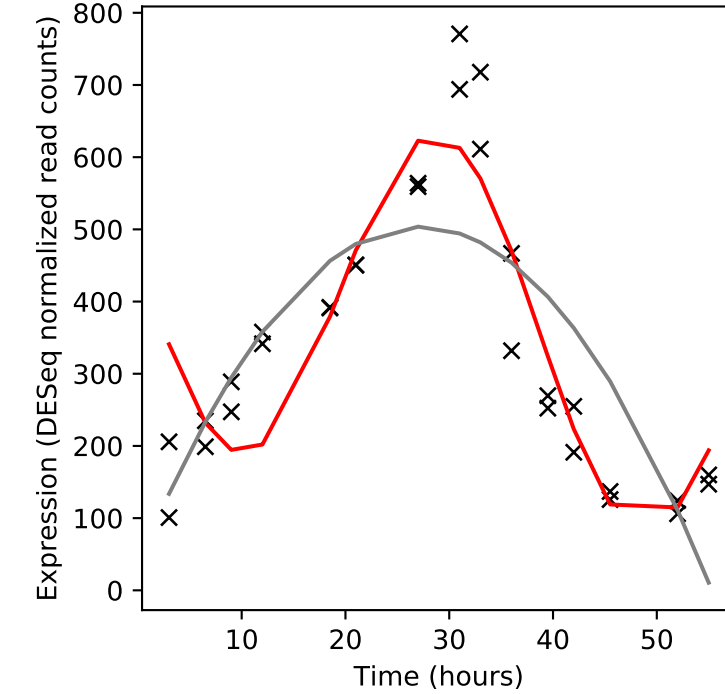
Rv0084/hycD



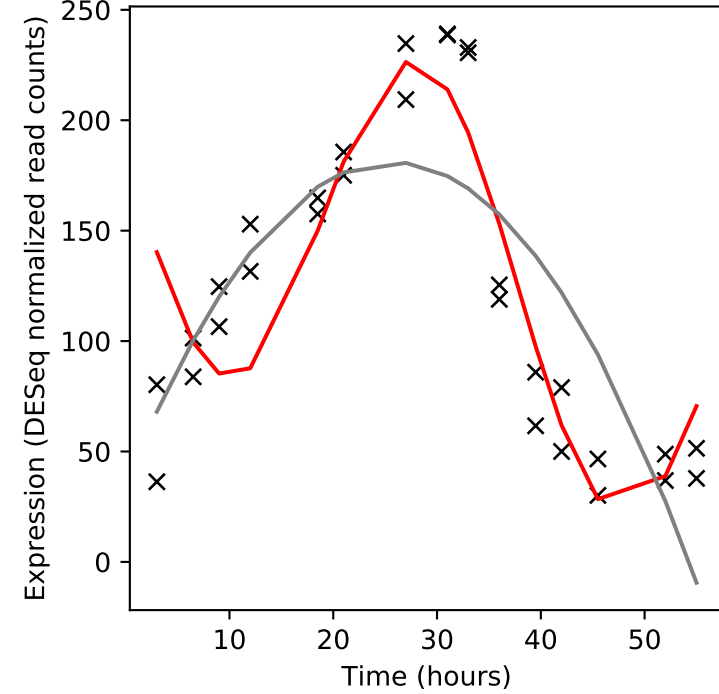
Rv0085/hycP



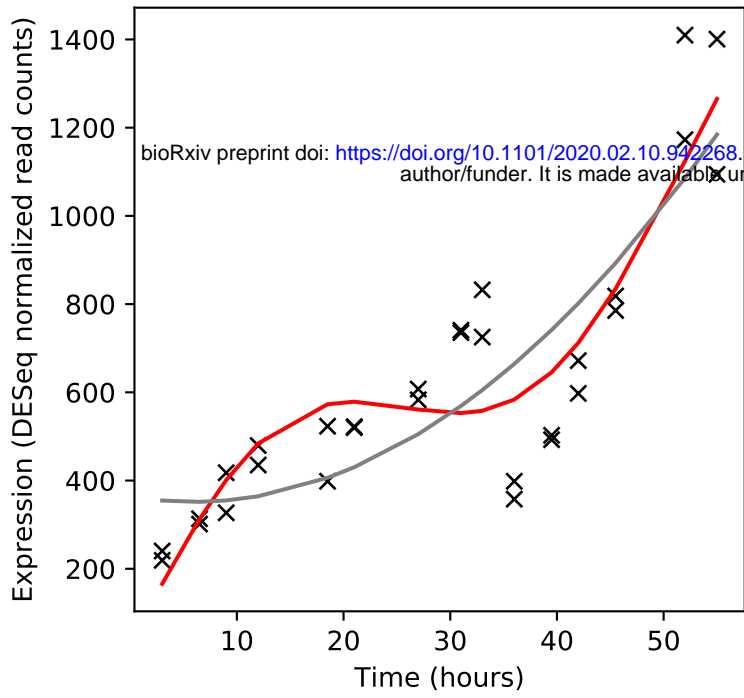
Rv0086/hycQ



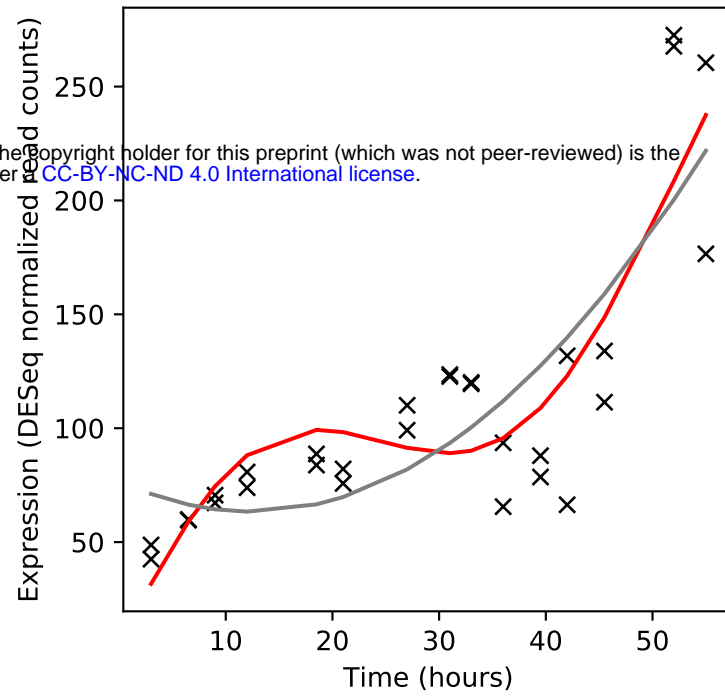
Rv0087/hycE



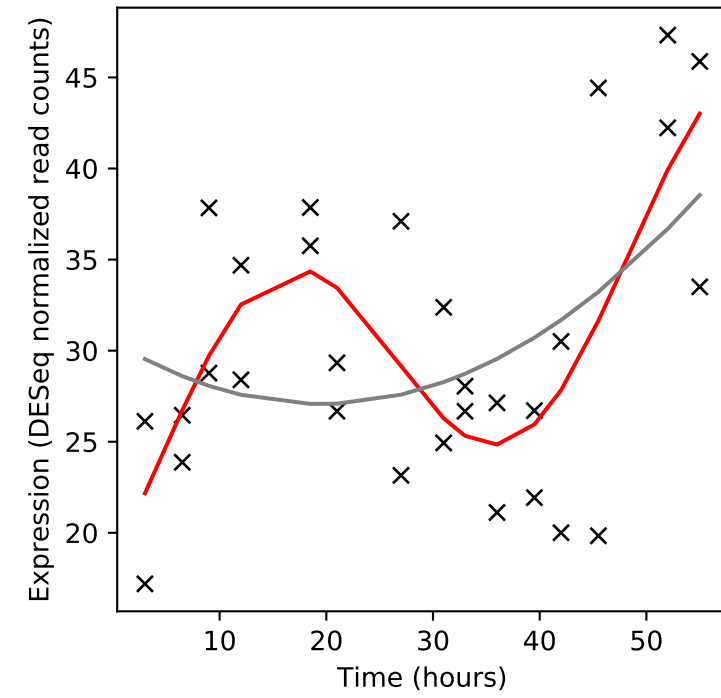
Rv0088/-



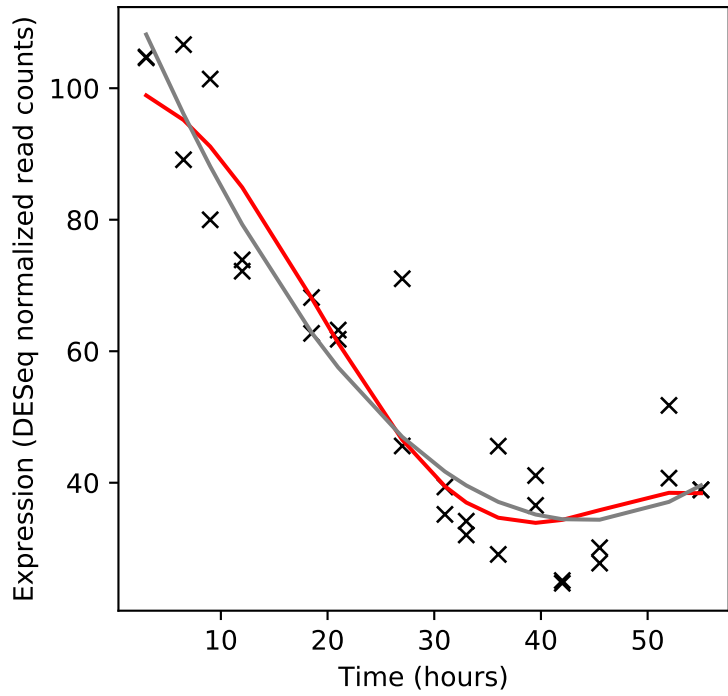
Rv0089/-



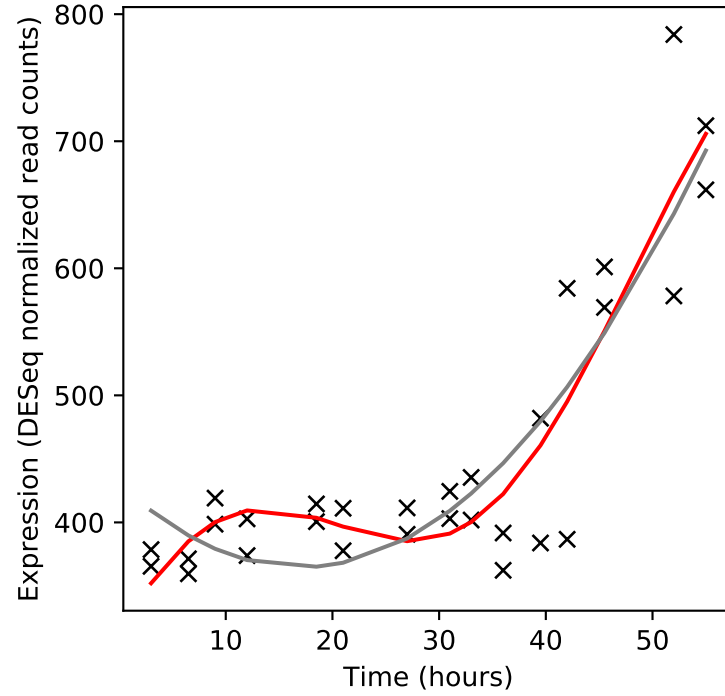
Rv0090/-



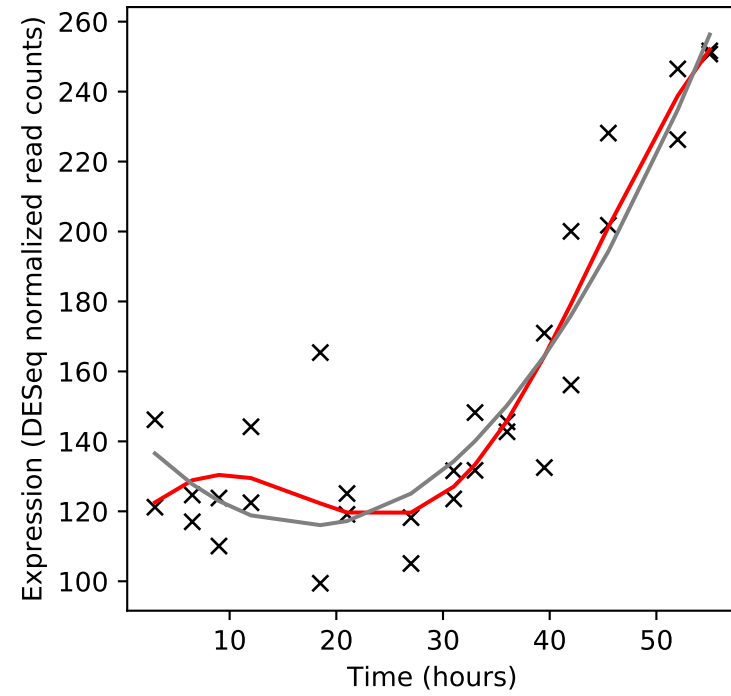
Rv0091/mtn



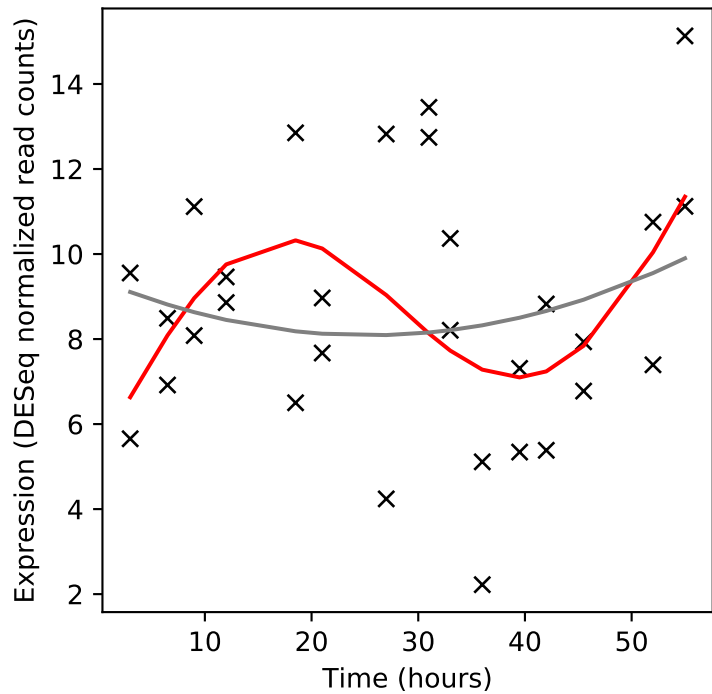
Rv0092/ctpA



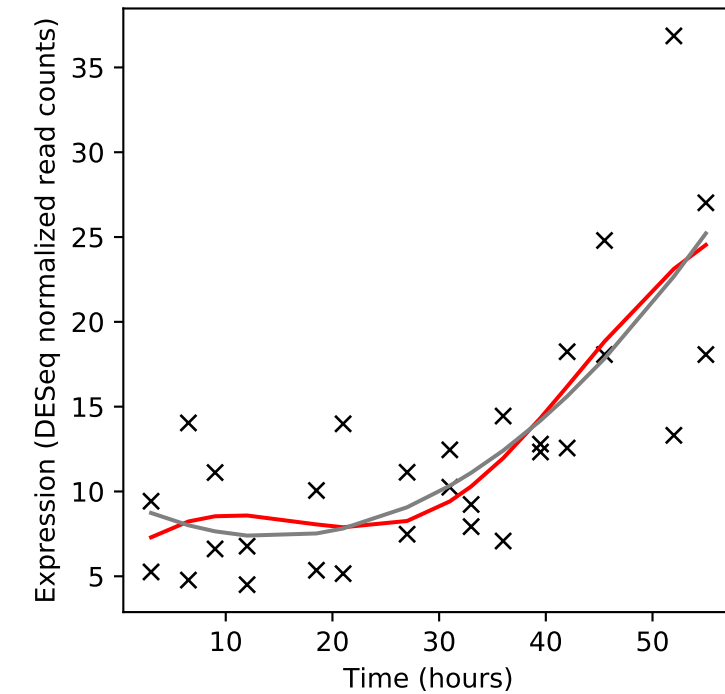
Rv0093c/-



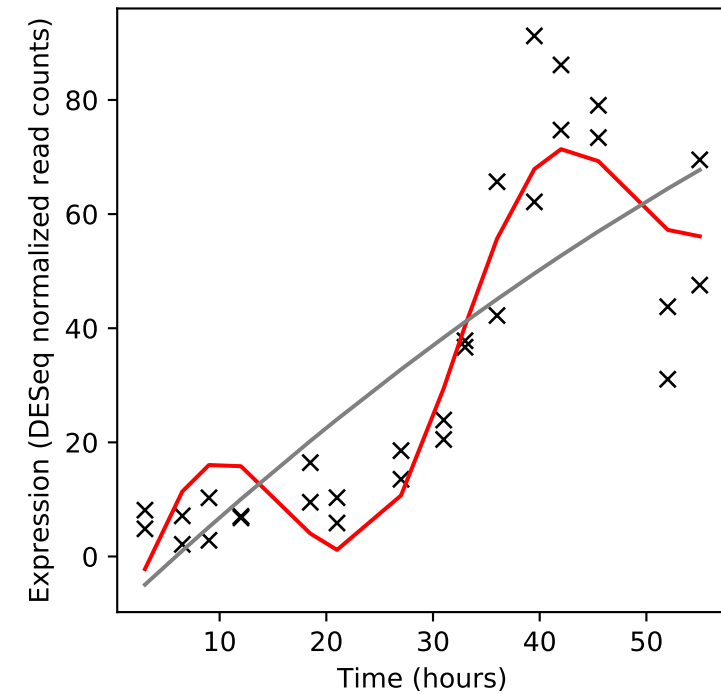
Rv0094c/-



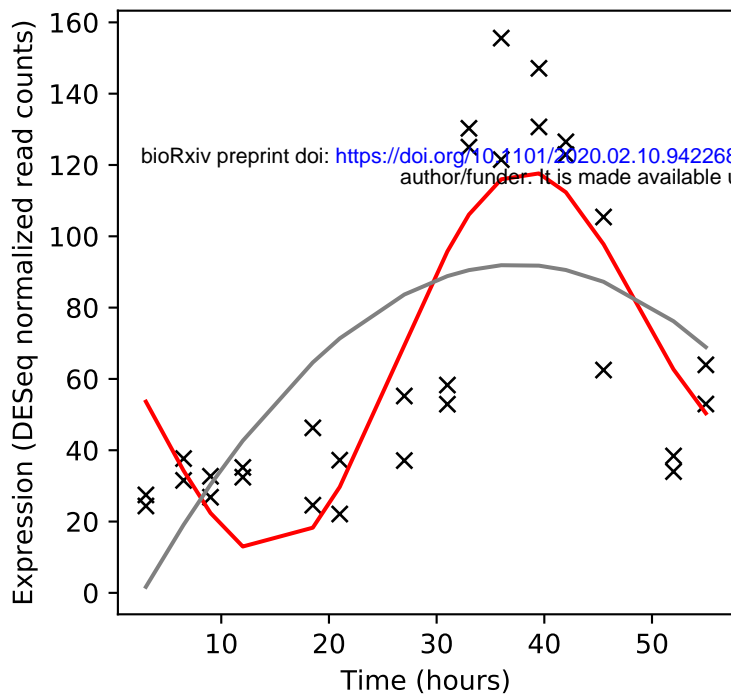
Rv0095c/-



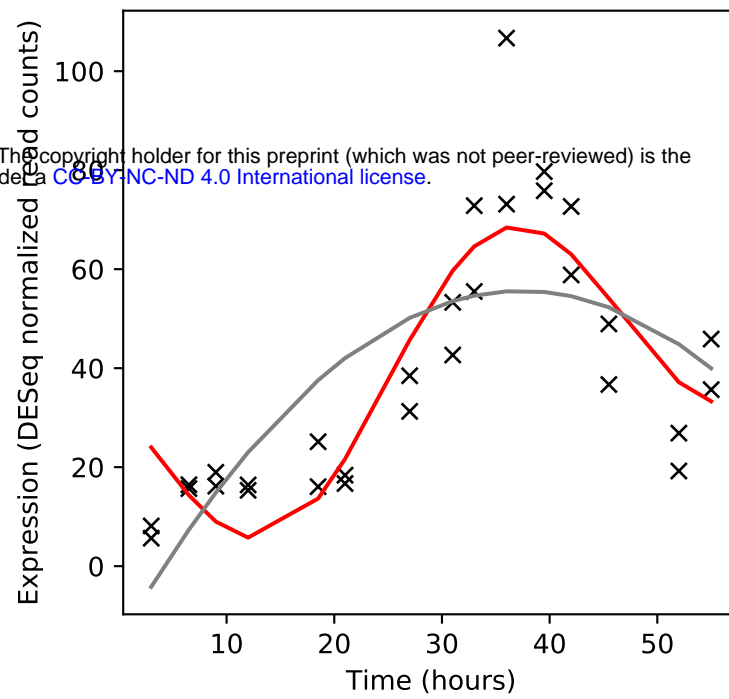
Rv0096/PPE1



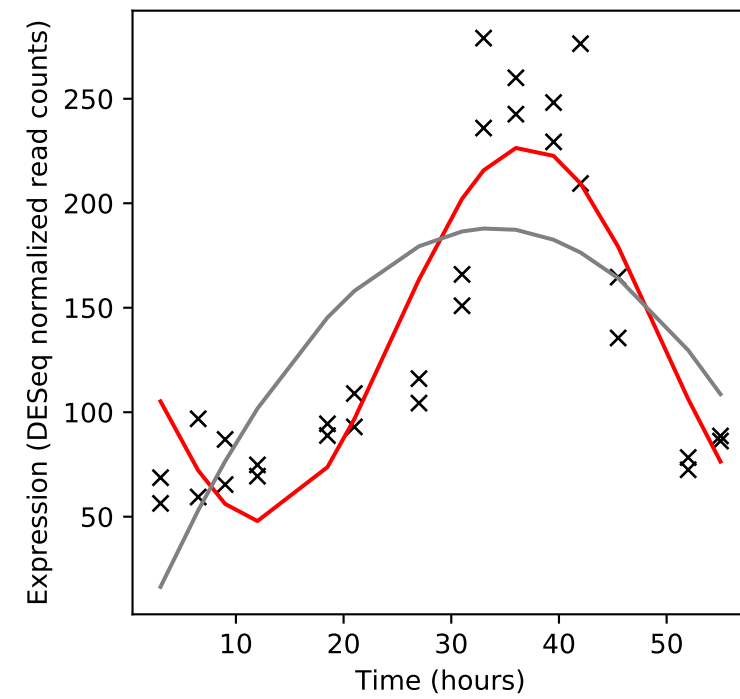
Rv0097/-



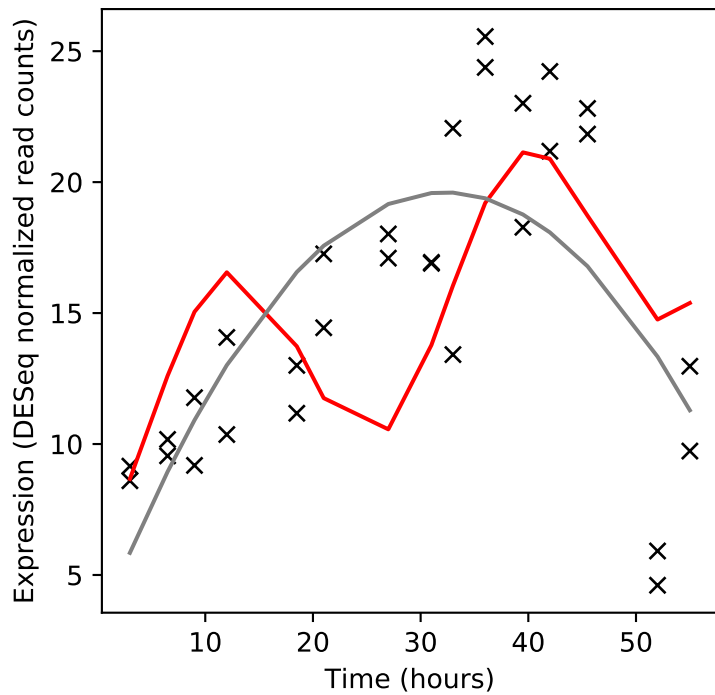
Rv0098/fcoT



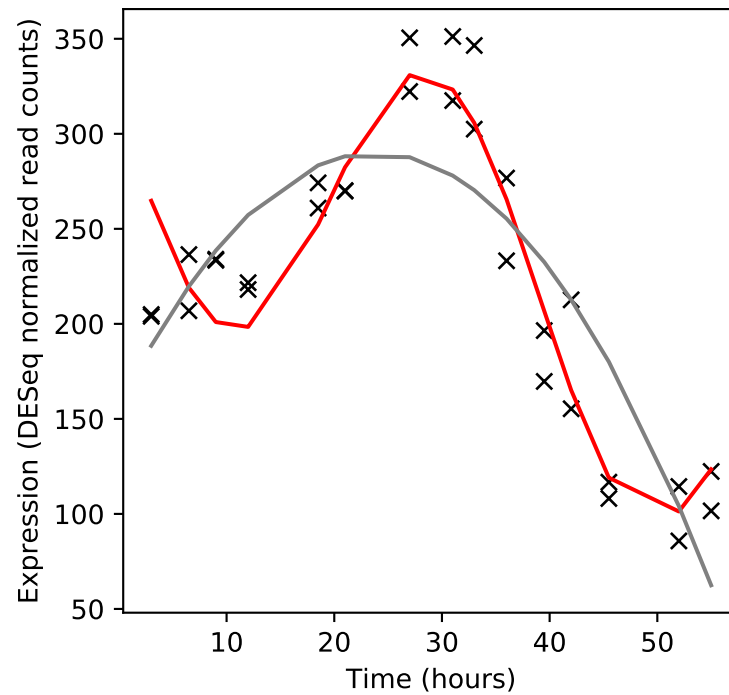
Rv0099/fadD10



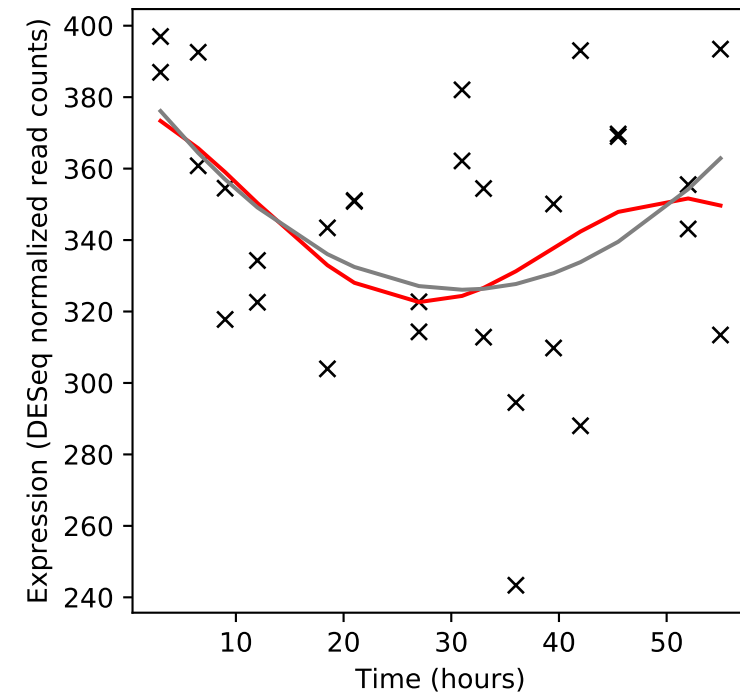
Rv0100/-



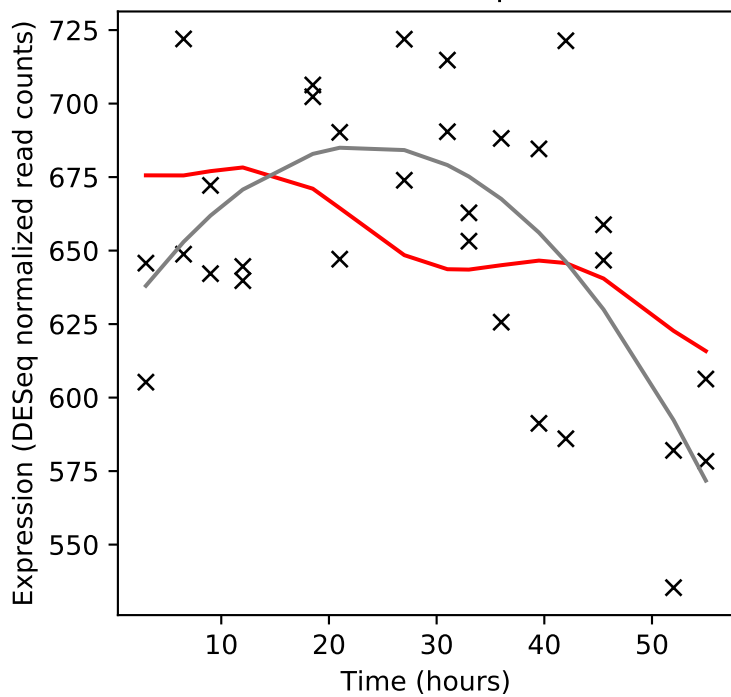
Rv0101/nrp



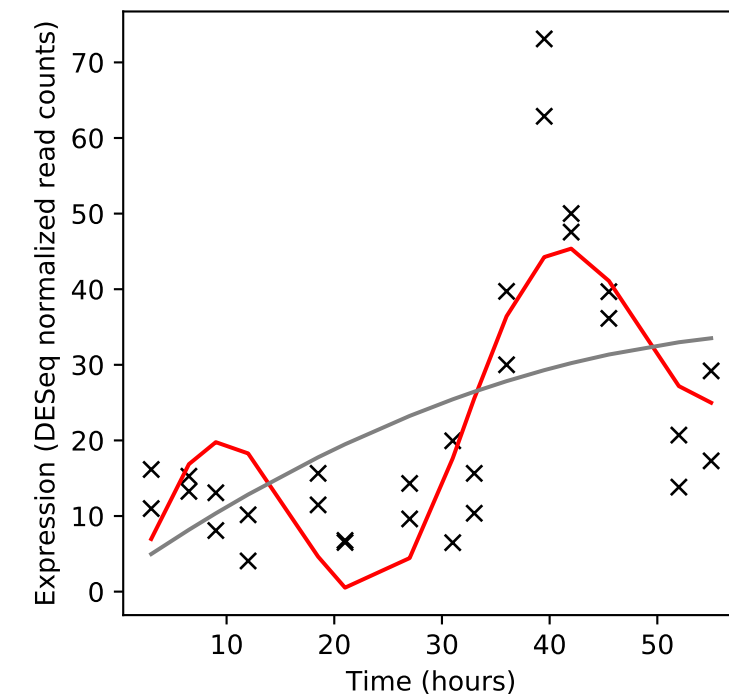
Rv0102/-



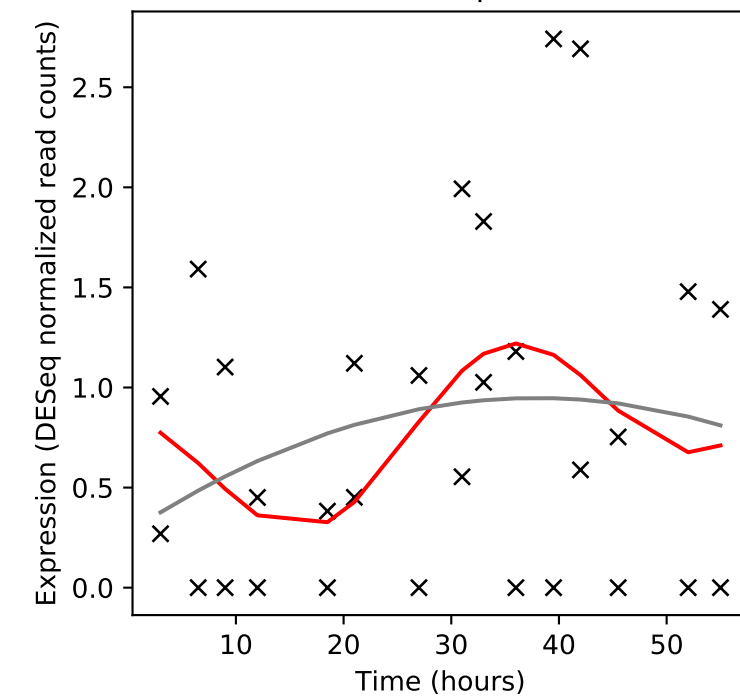
Rv0103c/ctpB



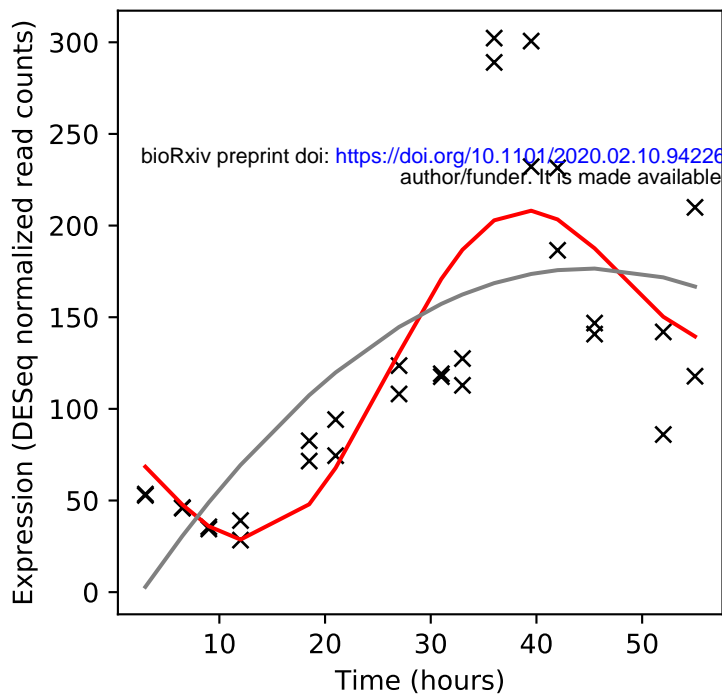
Rv0104/-



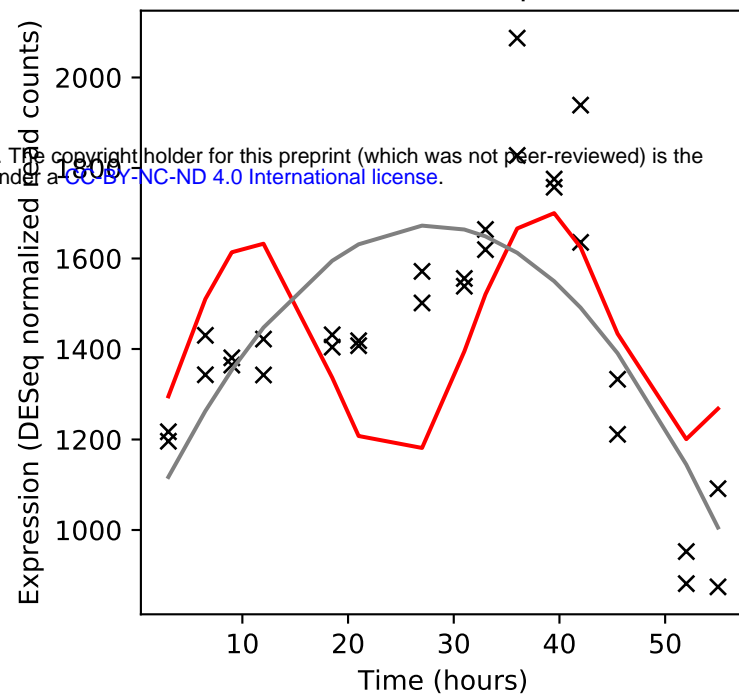
Rv0105c/rpmB1



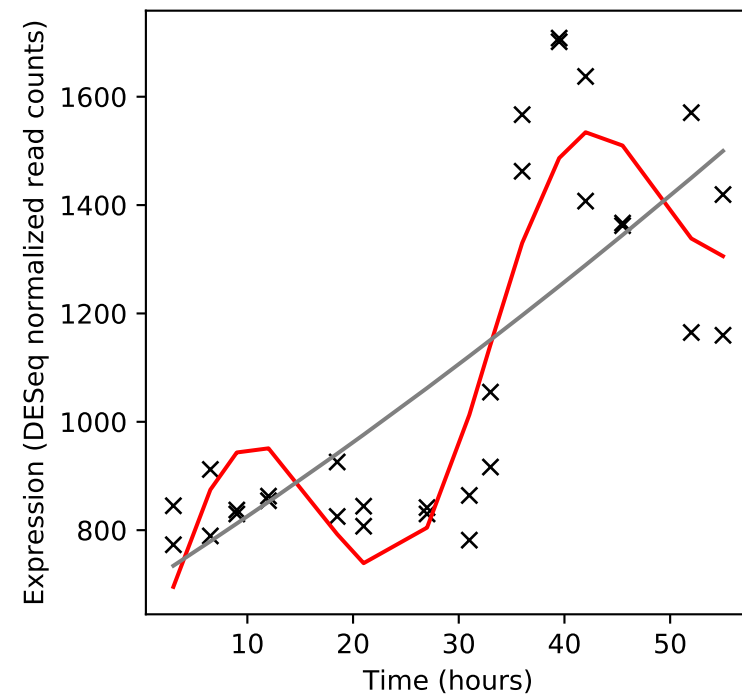
Rv0106/-



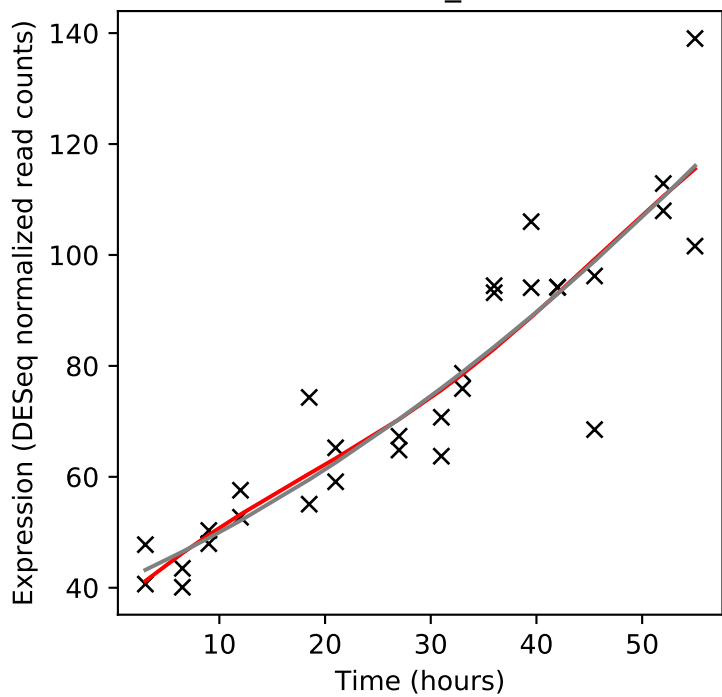
Rv0107c/ctpl



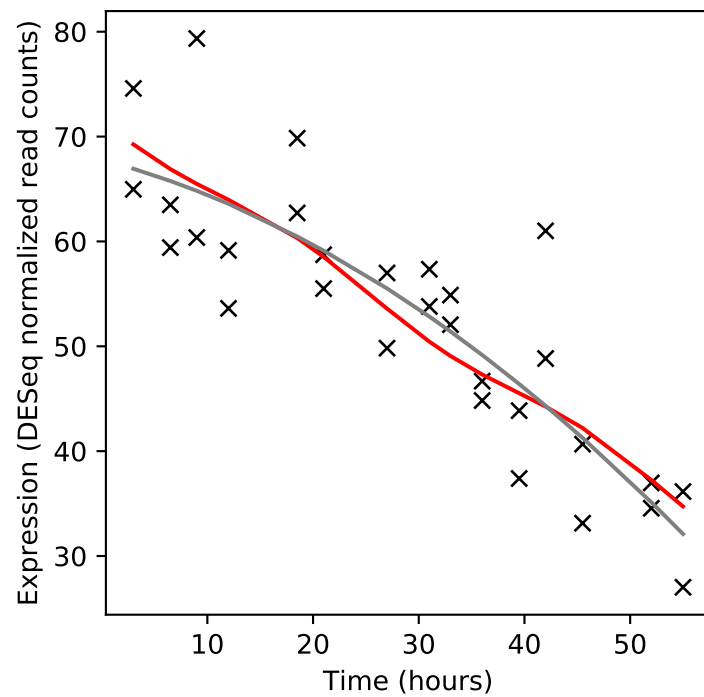
Rv0108c/-



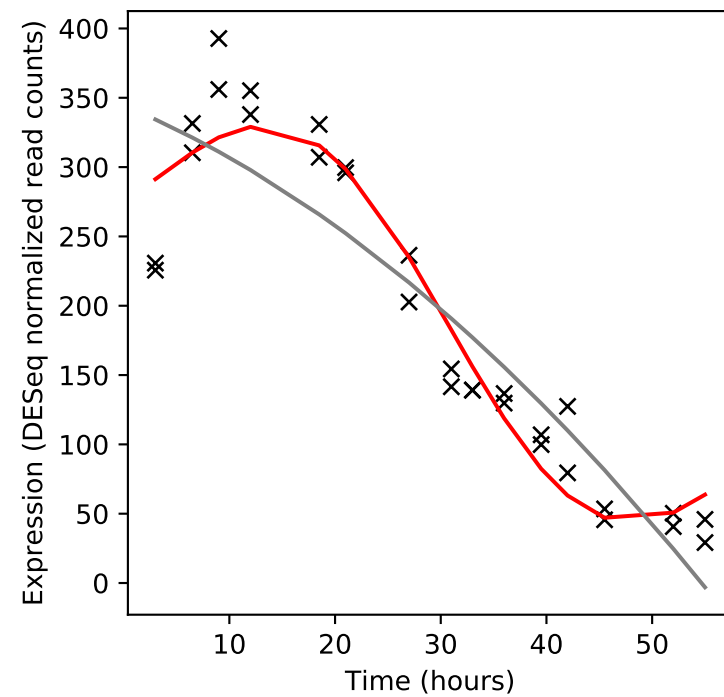
Rv0109/PE_PGRS1



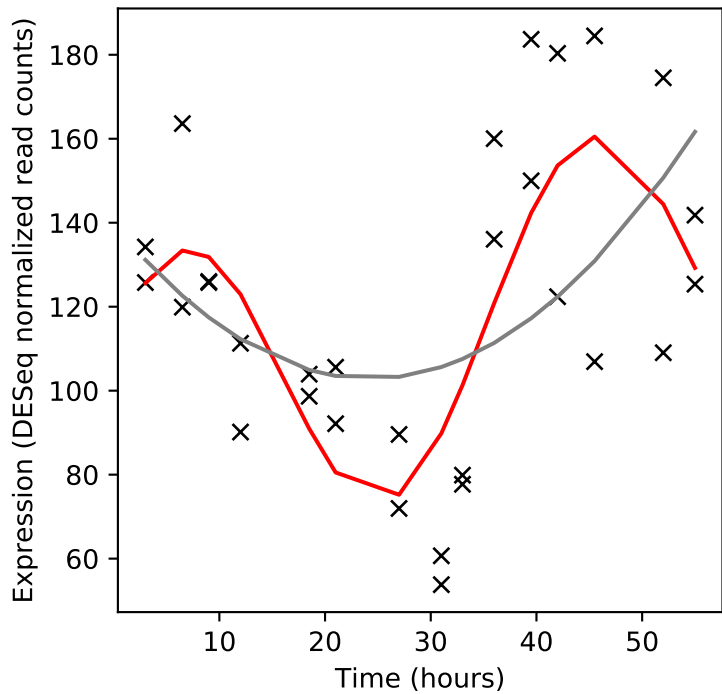
Rv0110/-



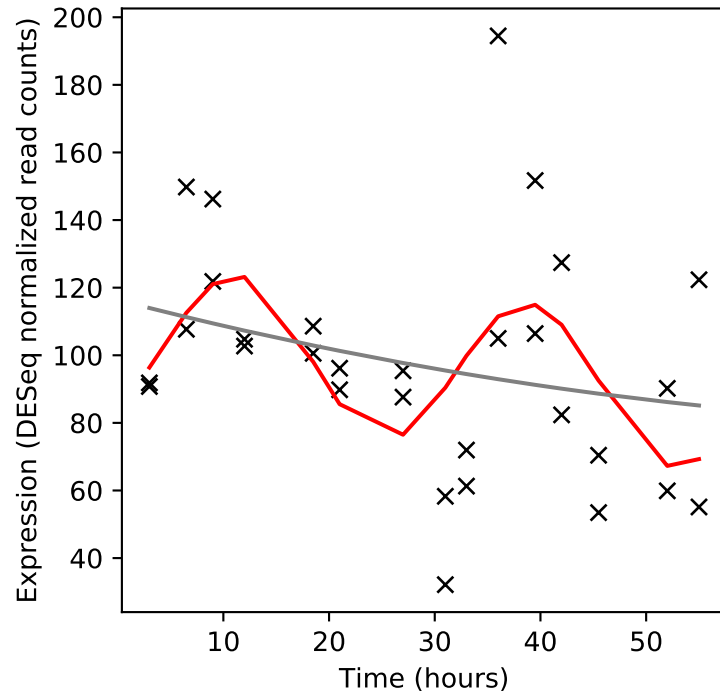
Rv0111/-



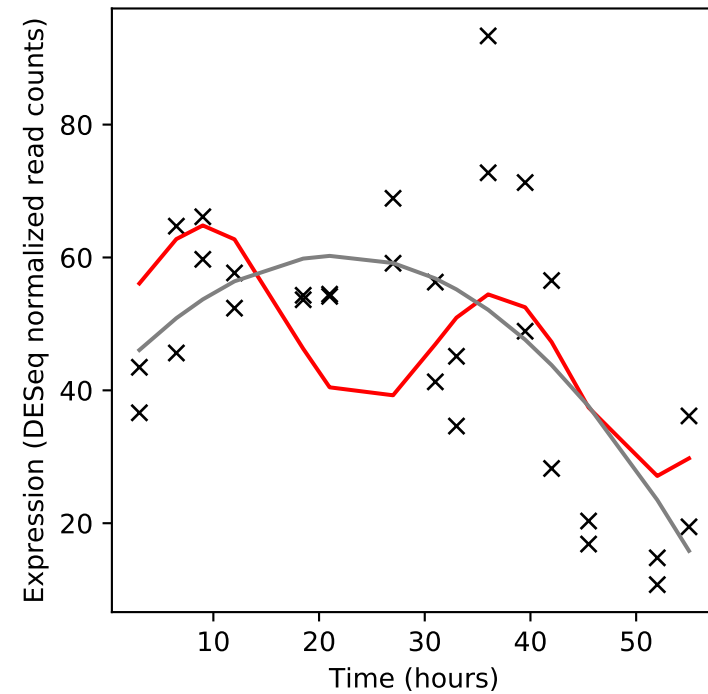
Rv0112/gca



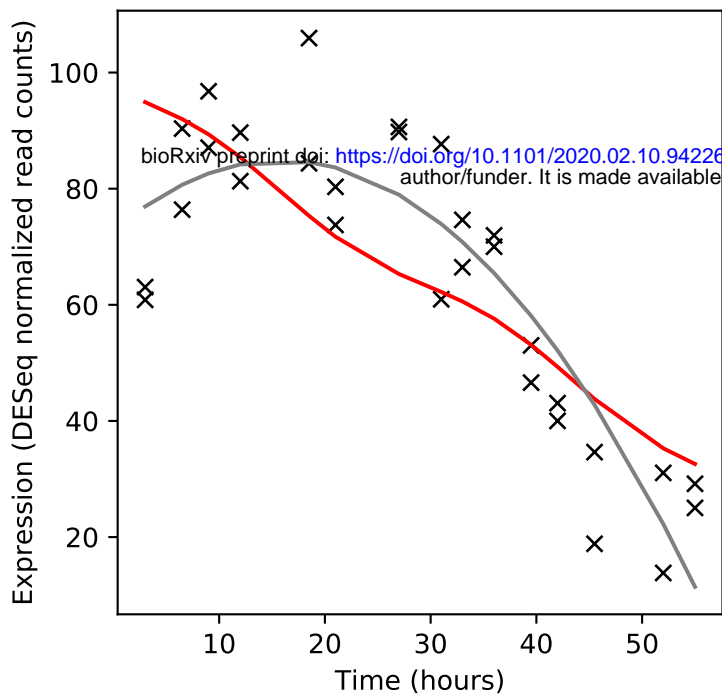
Rv0113/gmhA



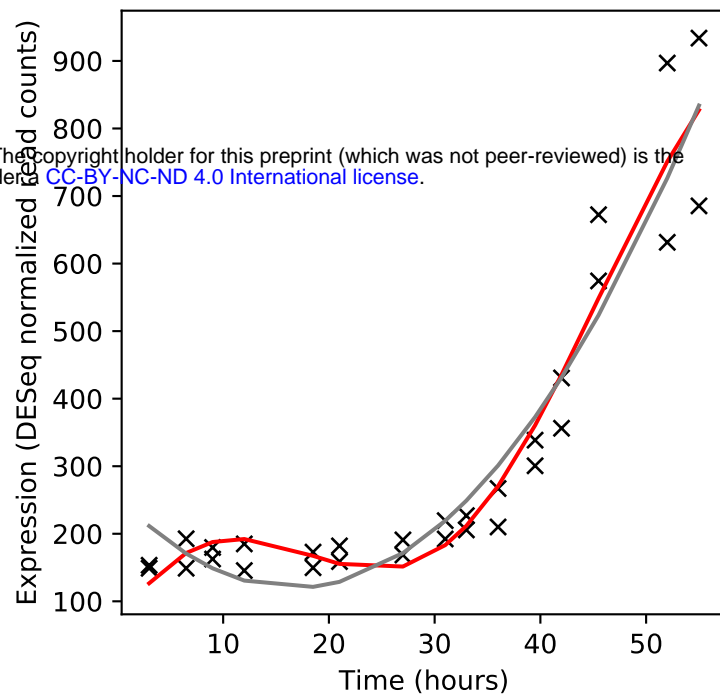
Rv0114/gmhB



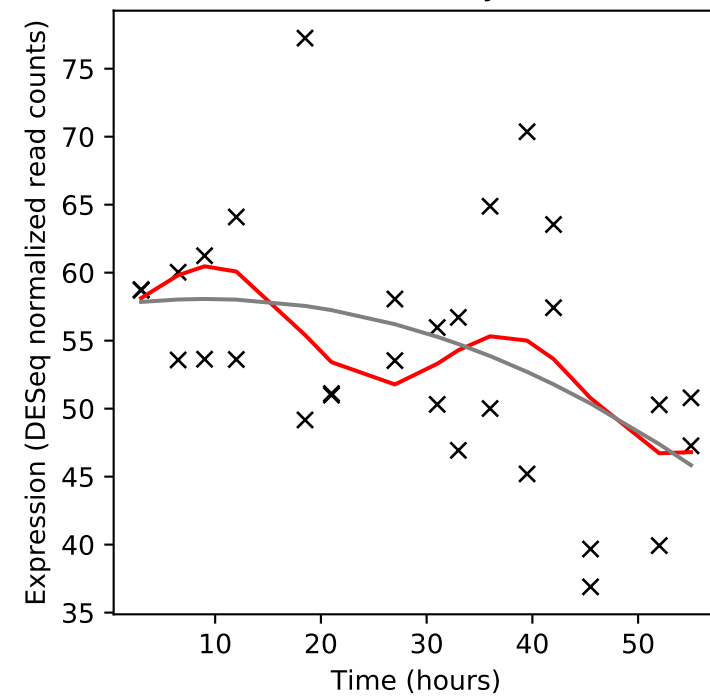
Rv0115/hddA



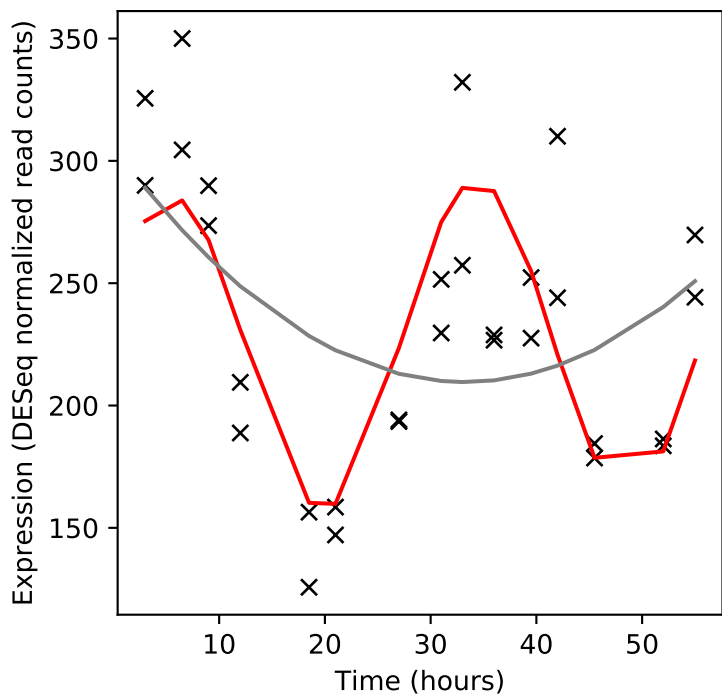
Rv0116c/ldtA



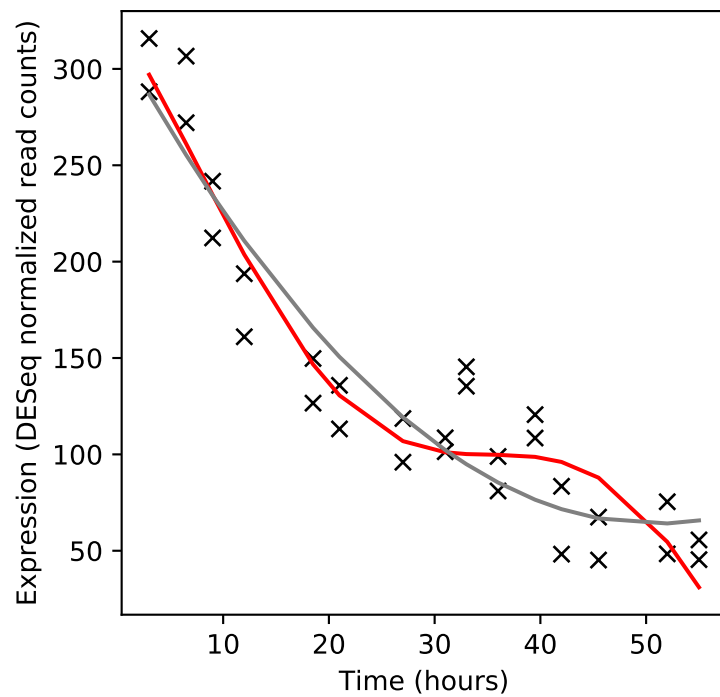
Rv0117/oxyS



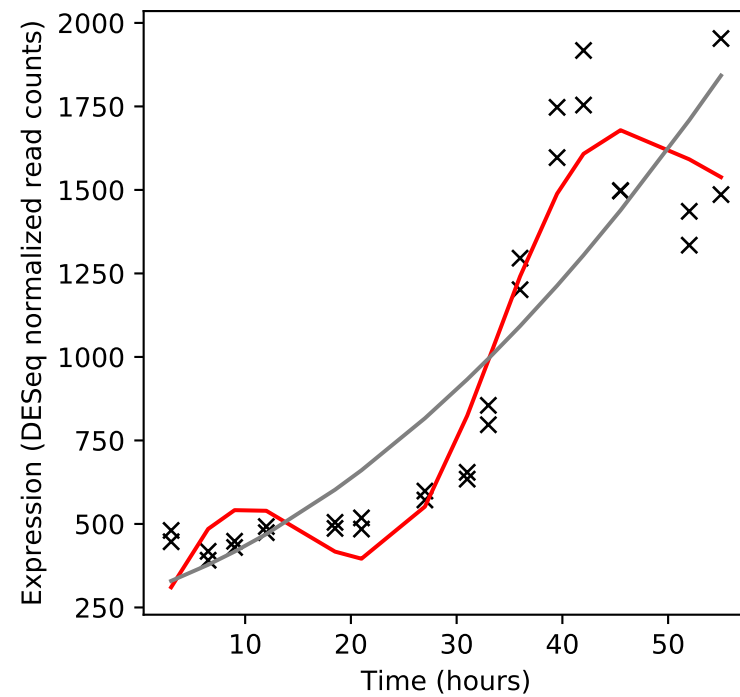
Rv0118c/oxcA



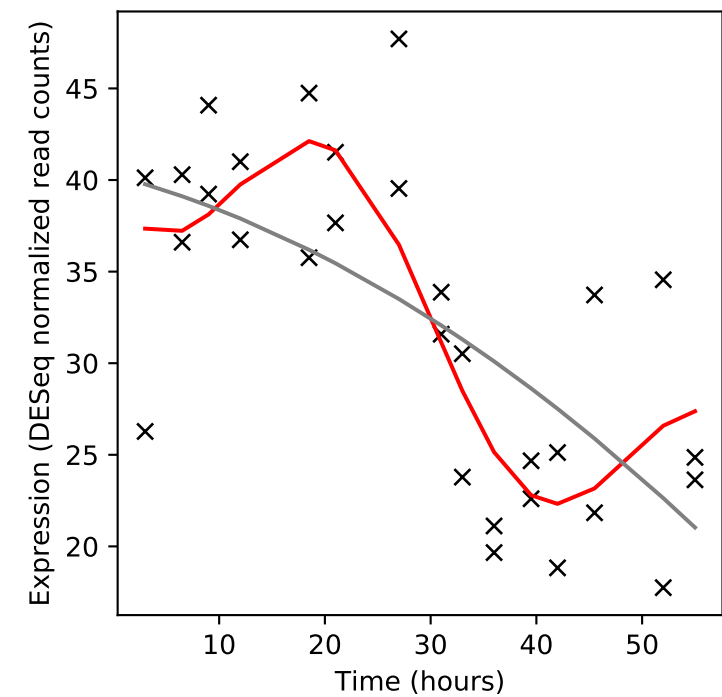
Rv0119/fadD7



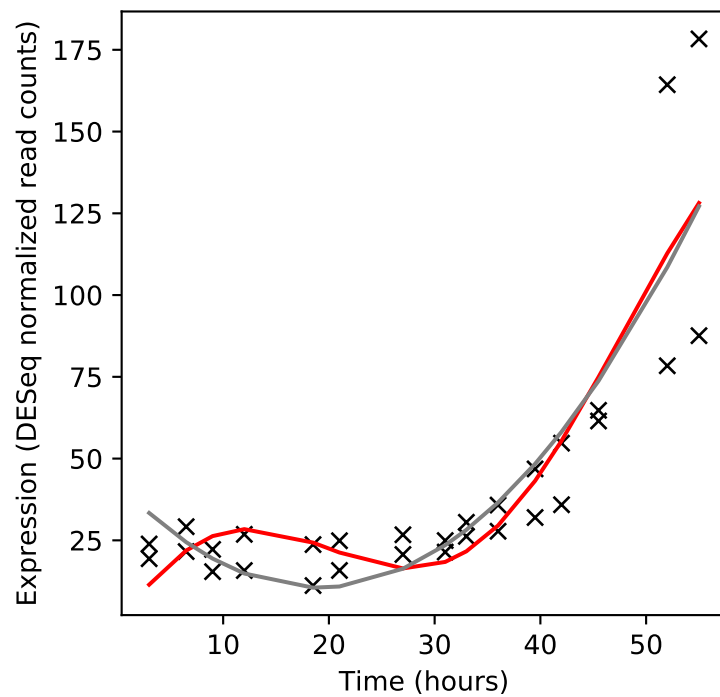
Rv0120c/fusA2



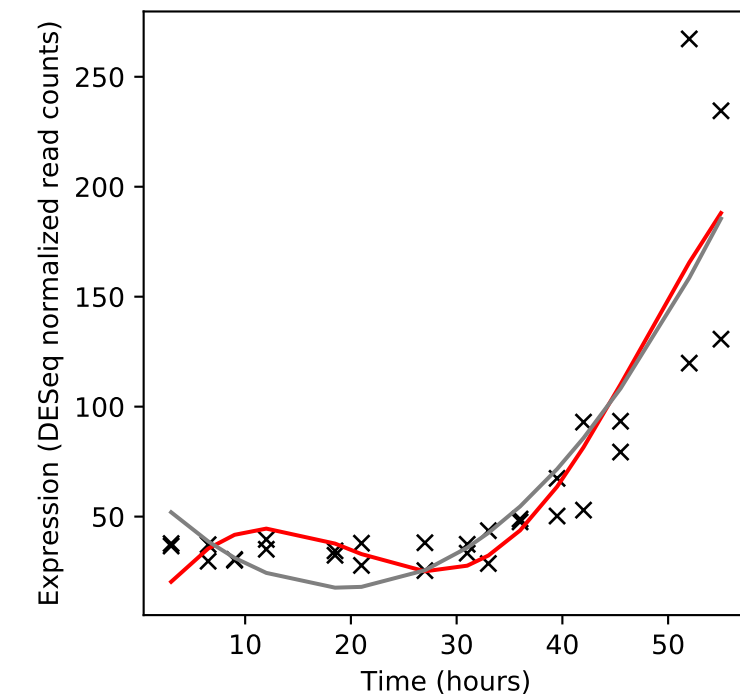
Rv0121c/-



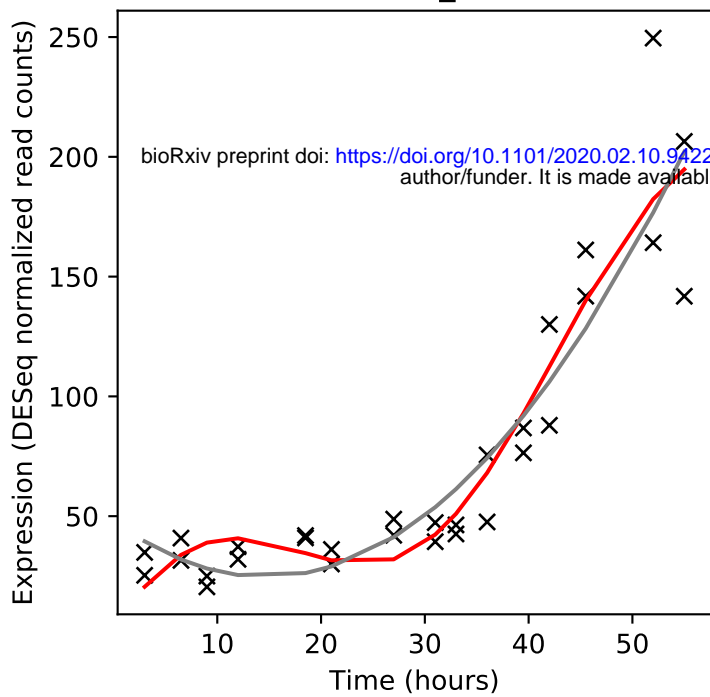
Rv0122/-



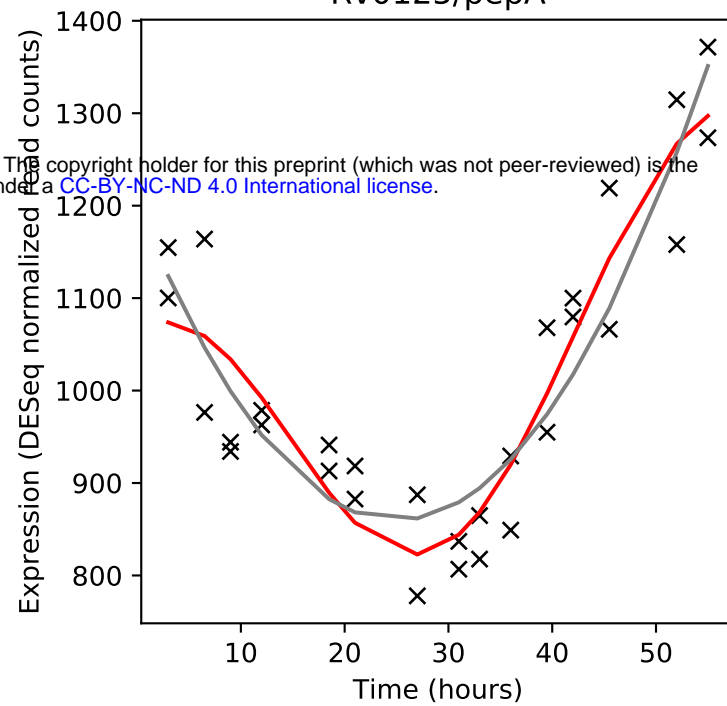
Rv0123/-



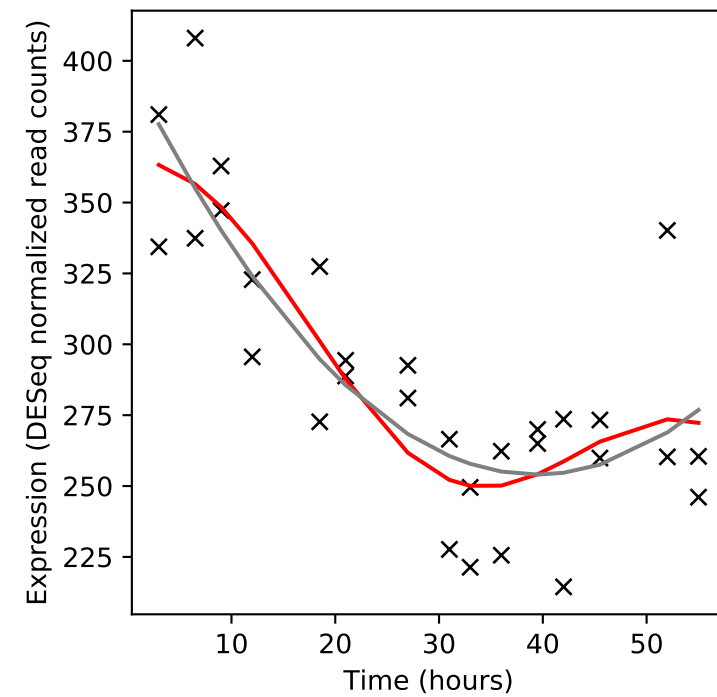
Rv0124/PE_PGRS2



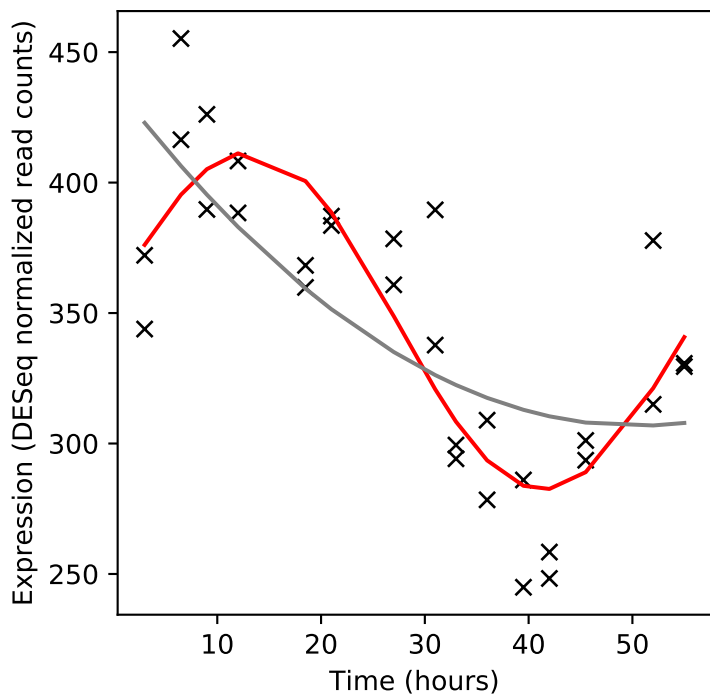
Rv0125/pepA



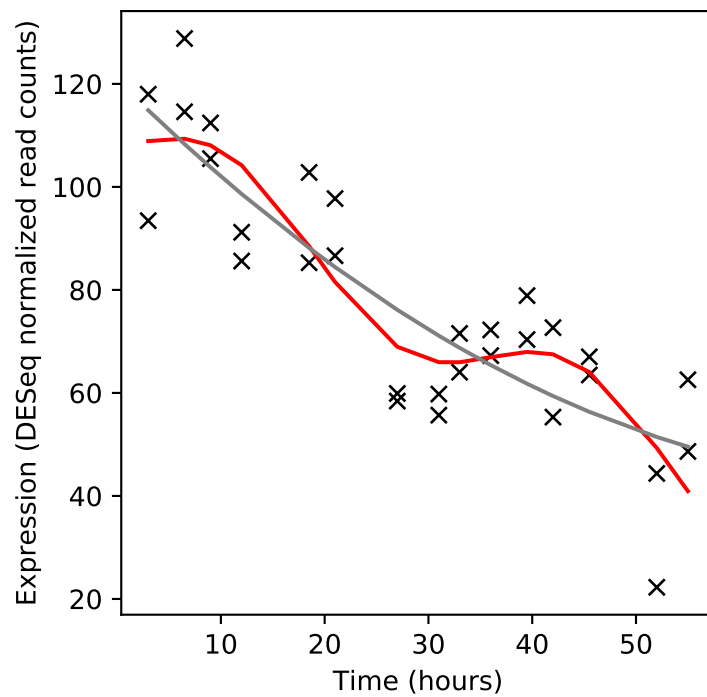
Rv0126/treS



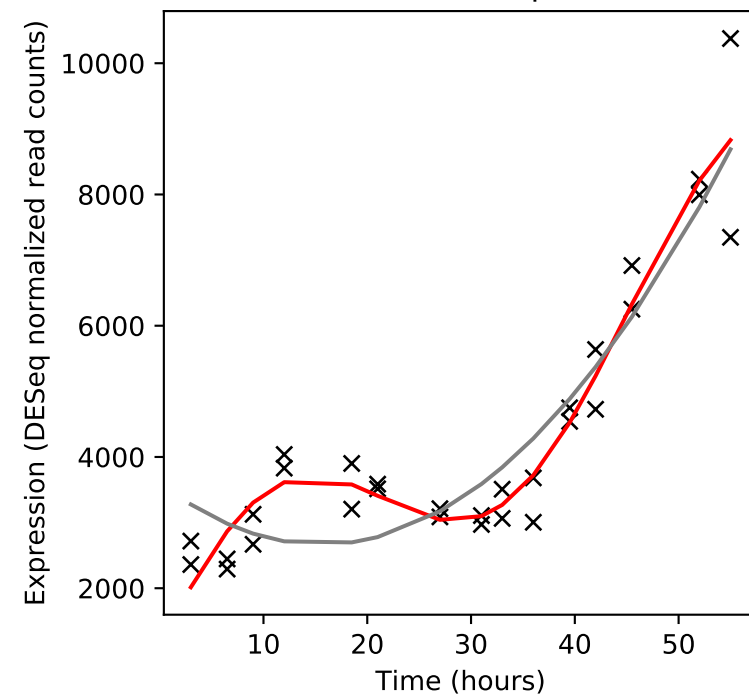
Rv0127/mak



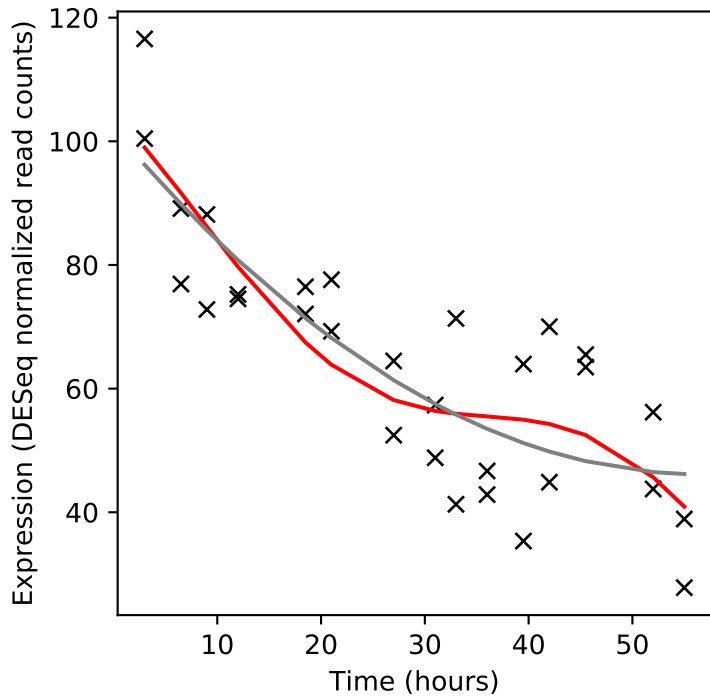
Rv0128/-



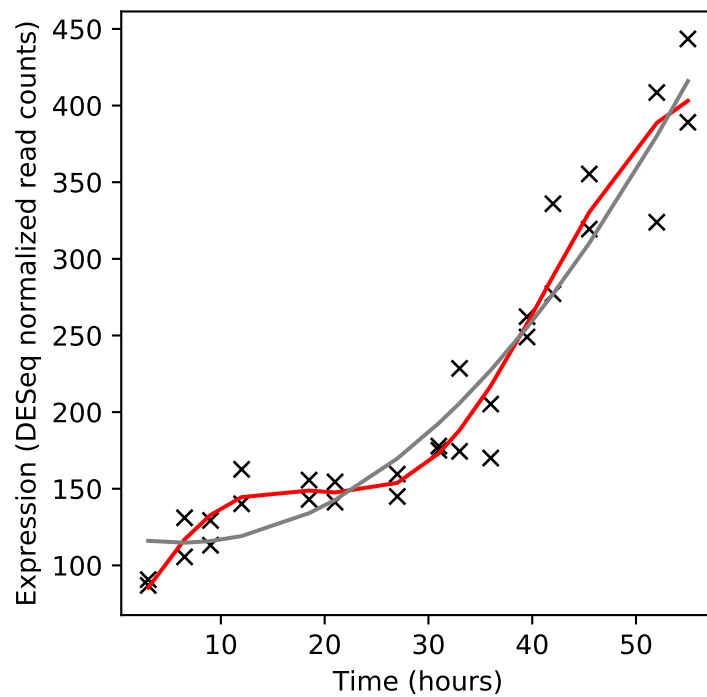
Rv0129c/fbpC



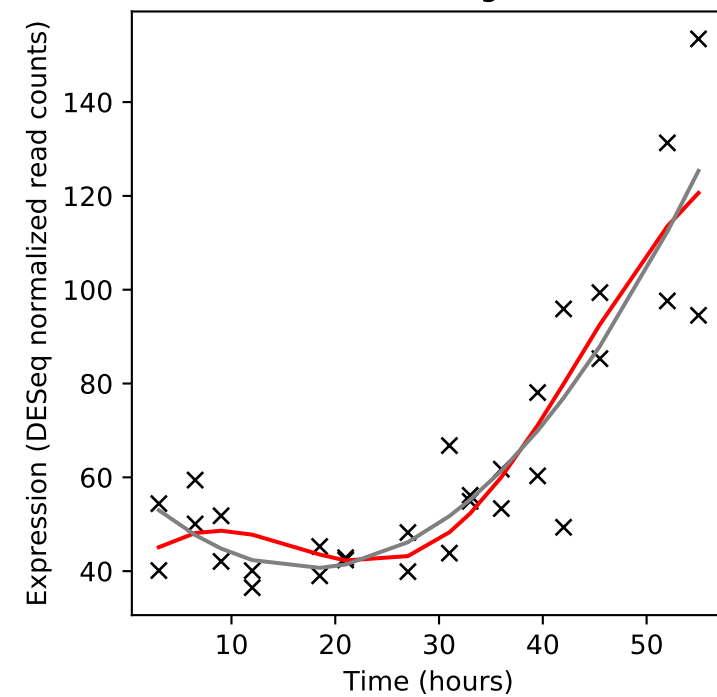
Rv0130/htdZ



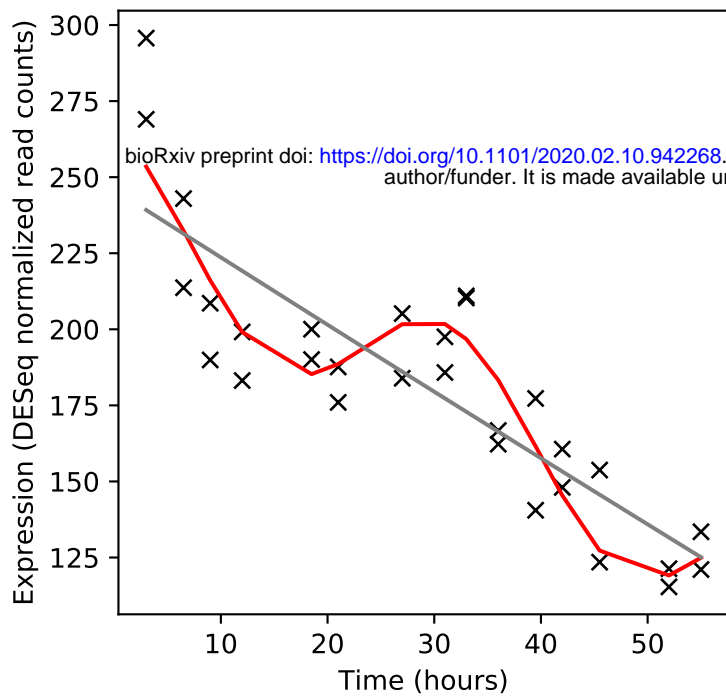
Rv0131c/fadE1



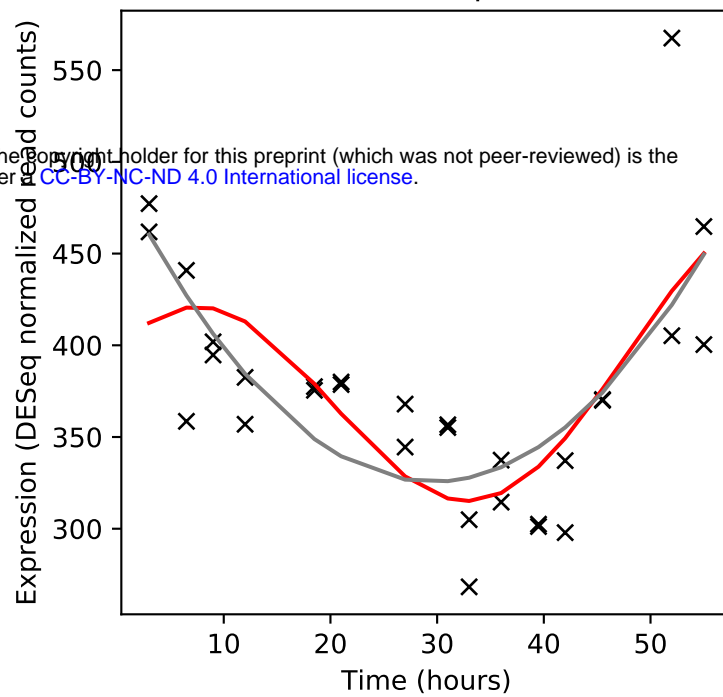
Rv0132c/fgd2



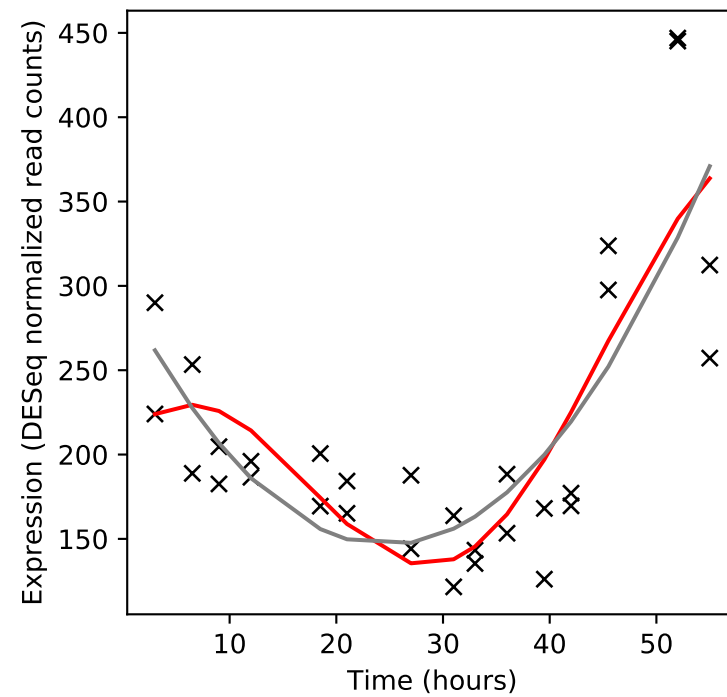
Rv0133/-



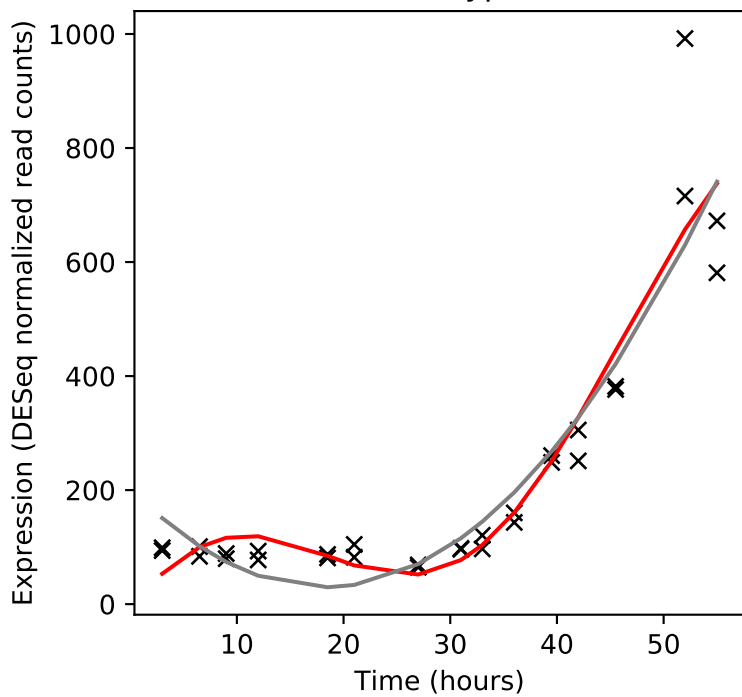
Rv0134/ephF



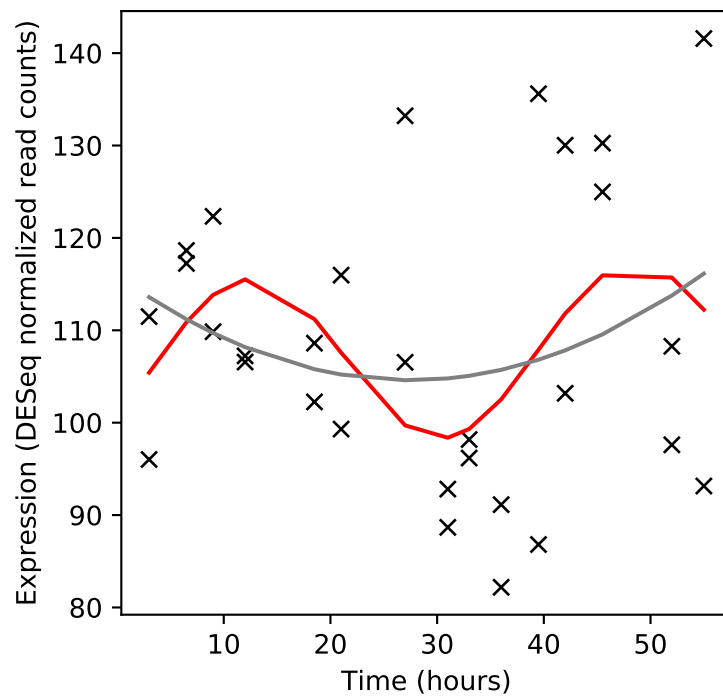
Rv0135c/-



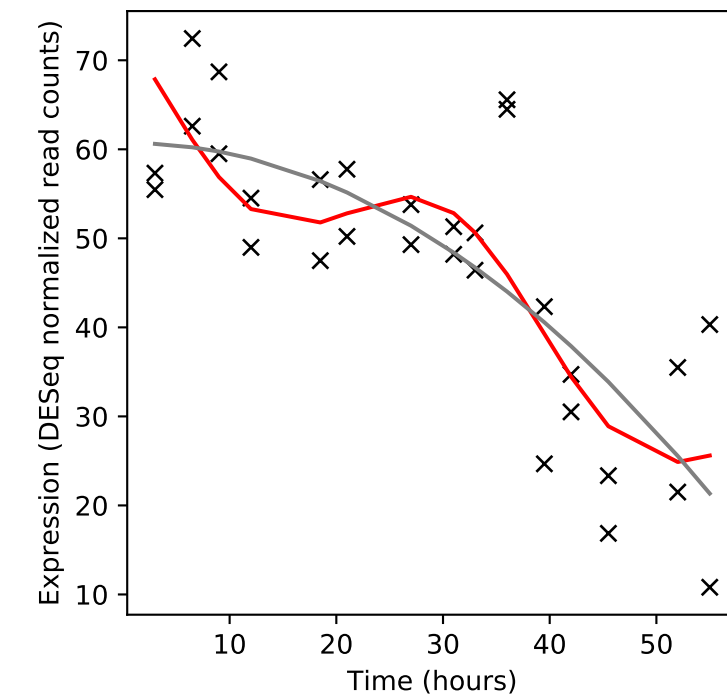
Rv0136/cyp138



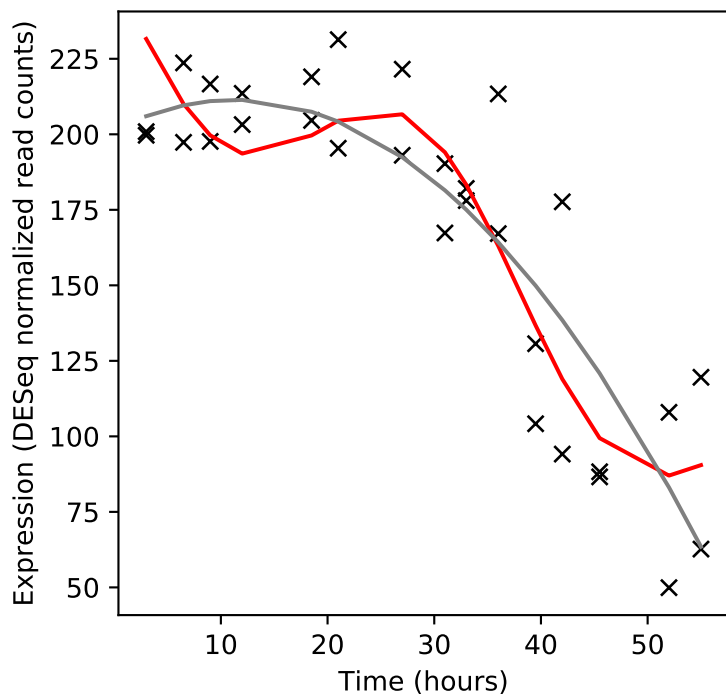
Rv0137c/msrA



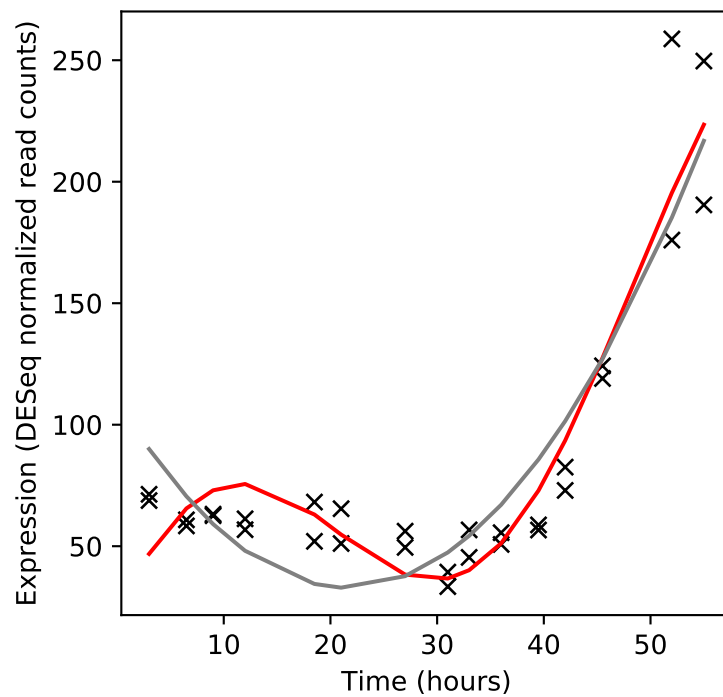
Rv0138/-



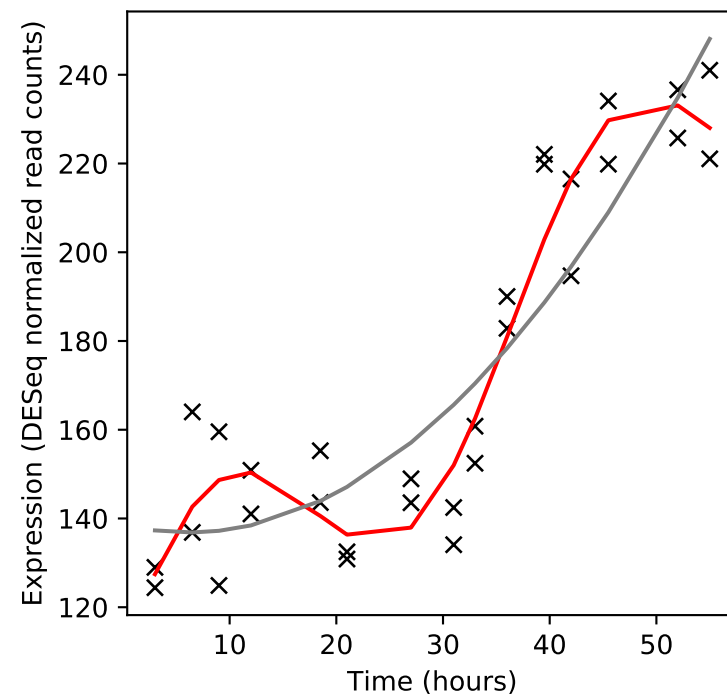
Rv0139/-



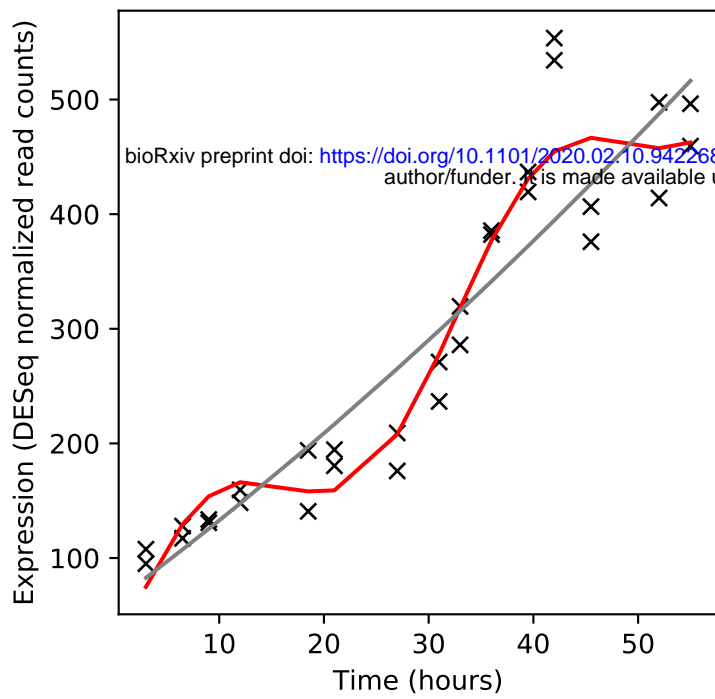
Rv0140/-



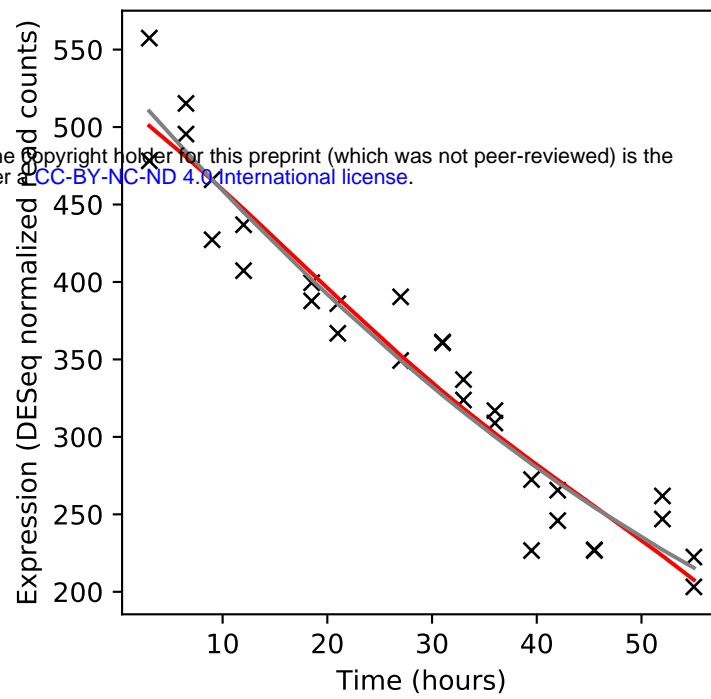
Rv0141c/-



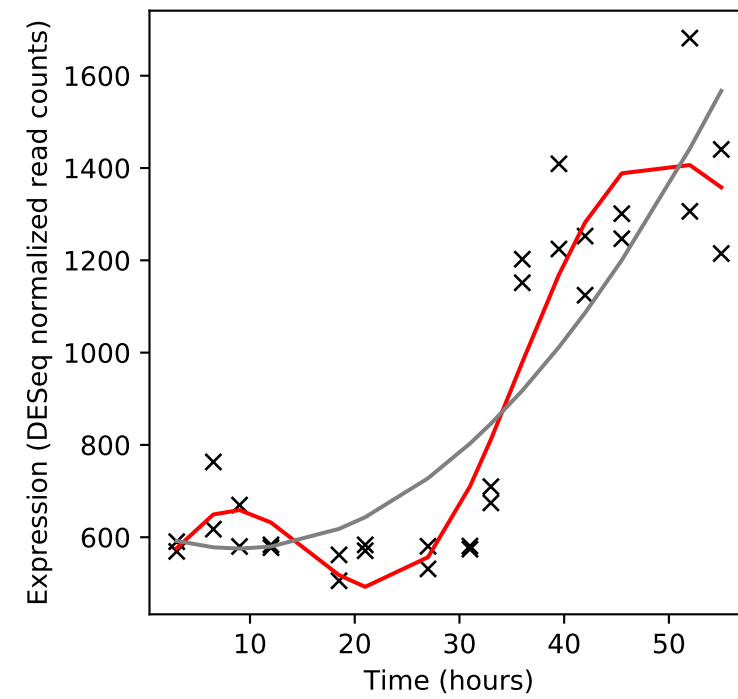
Rv0142/-



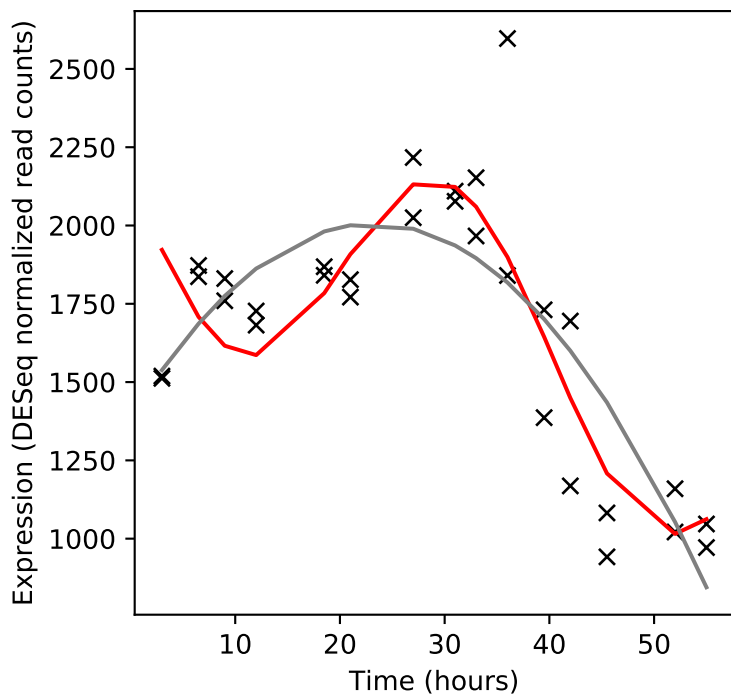
Rv0143c/-



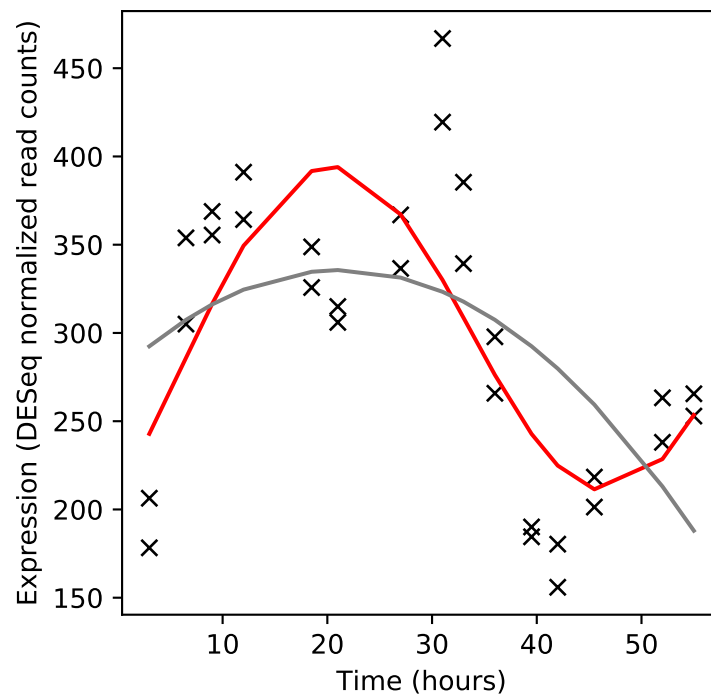
Rv0144/-



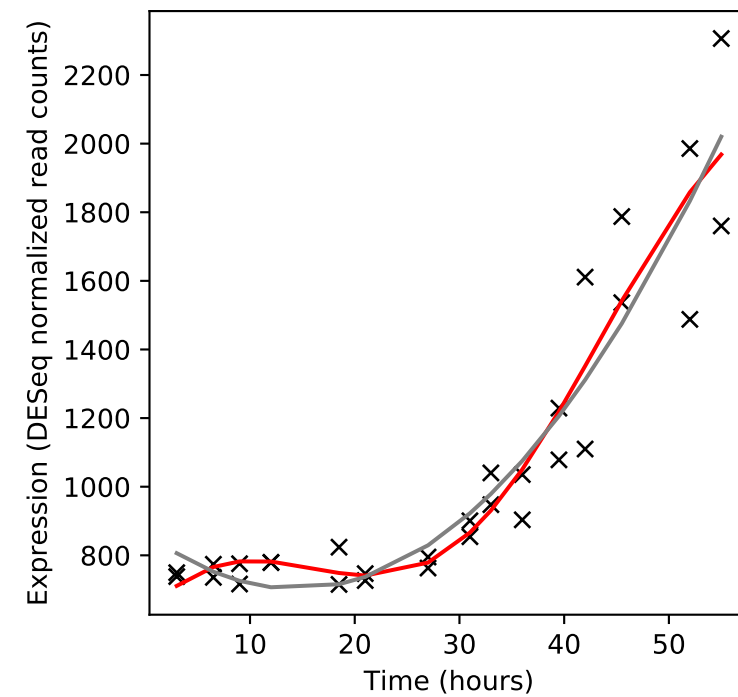
Rv0145/-



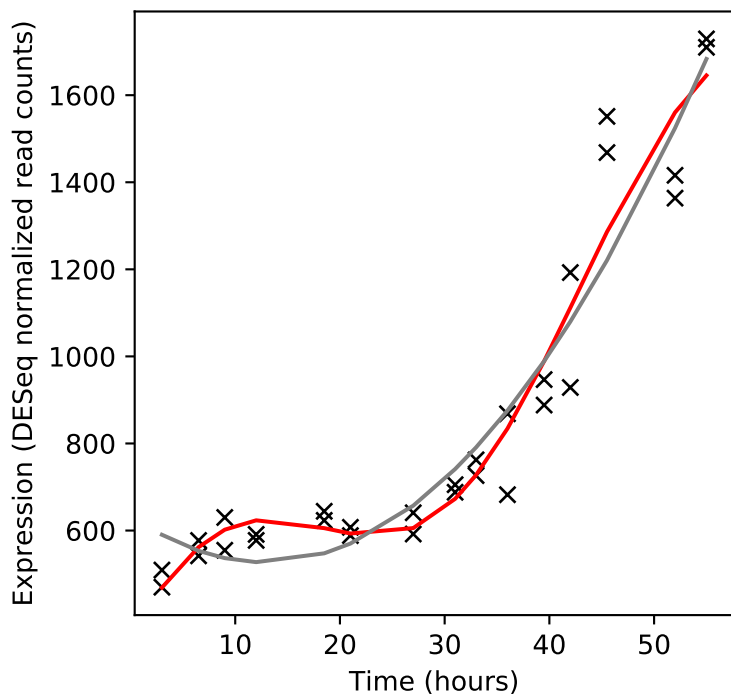
Rv0146/-



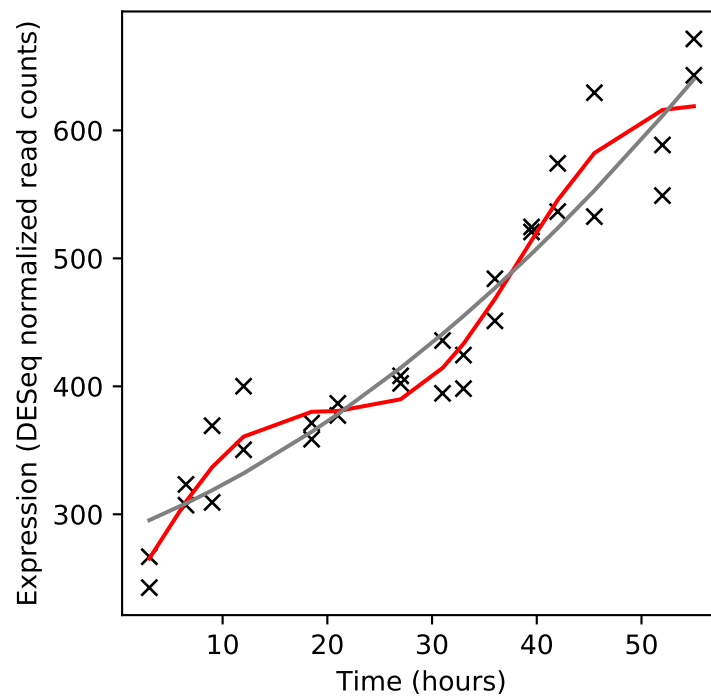
Rv0147/-



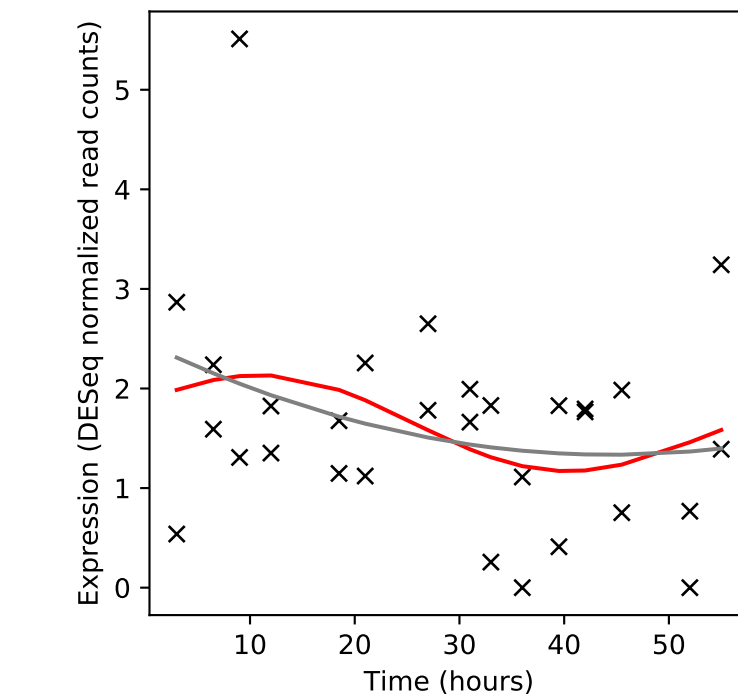
Rv0148/-



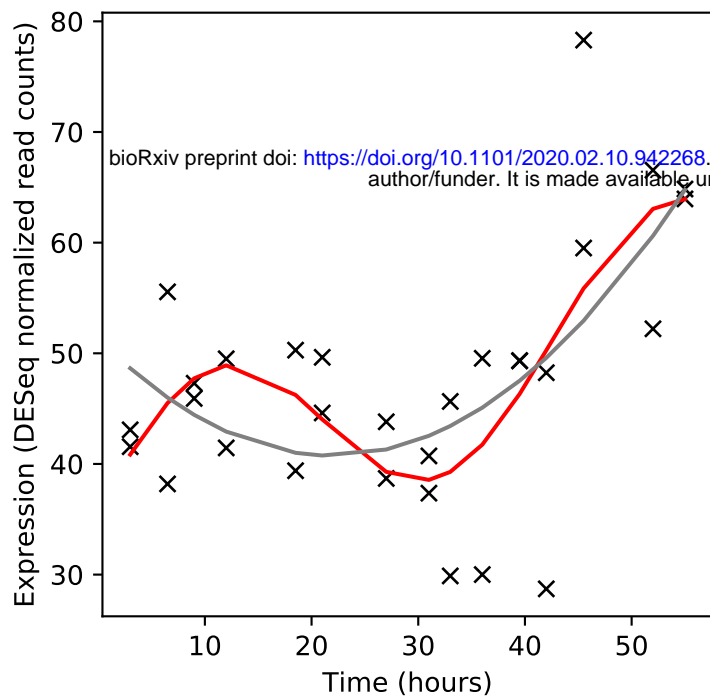
Rv0149/-



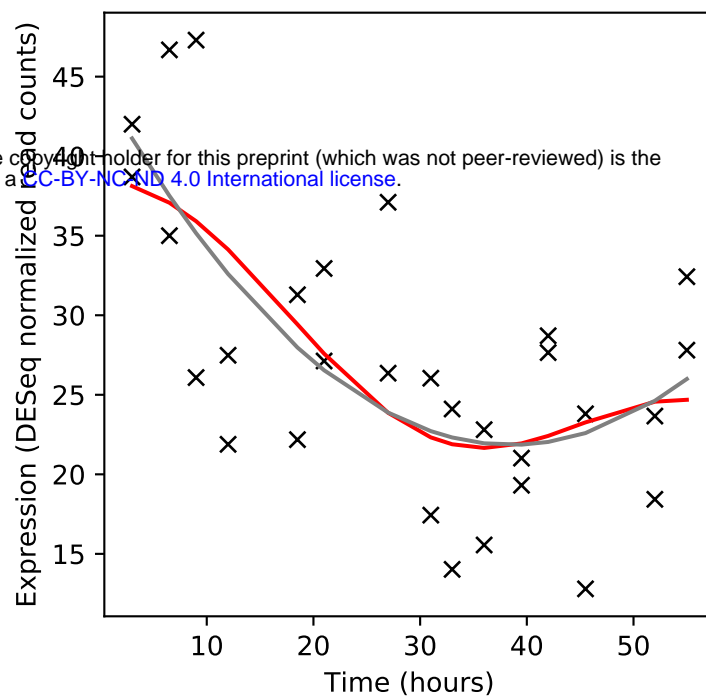
Rv0150c/-



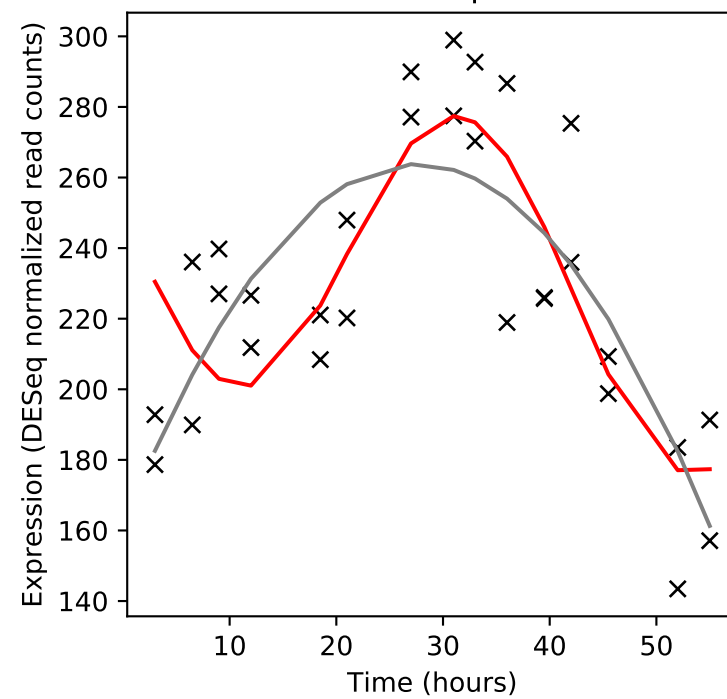
Rv0151c/PE1



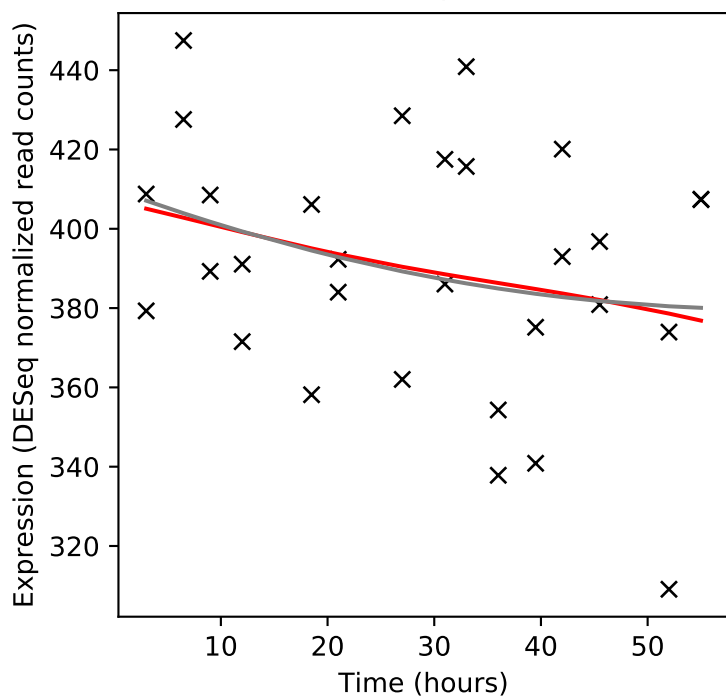
Rv0152c/PE2



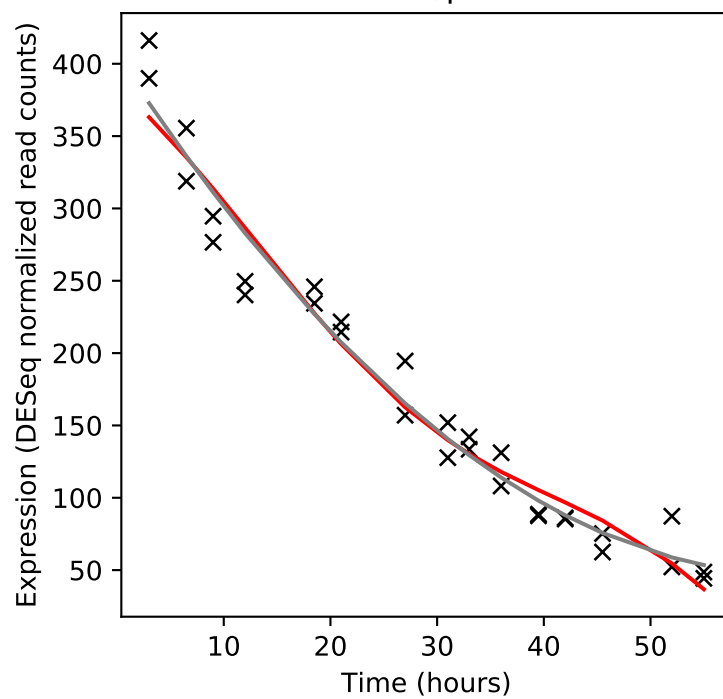
Rv0153c/ptbB



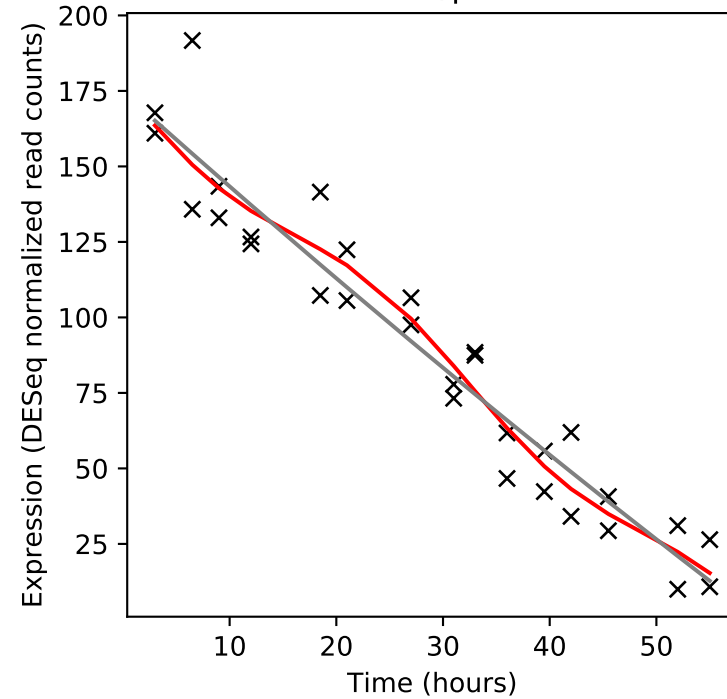
Rv0154c/fadE2



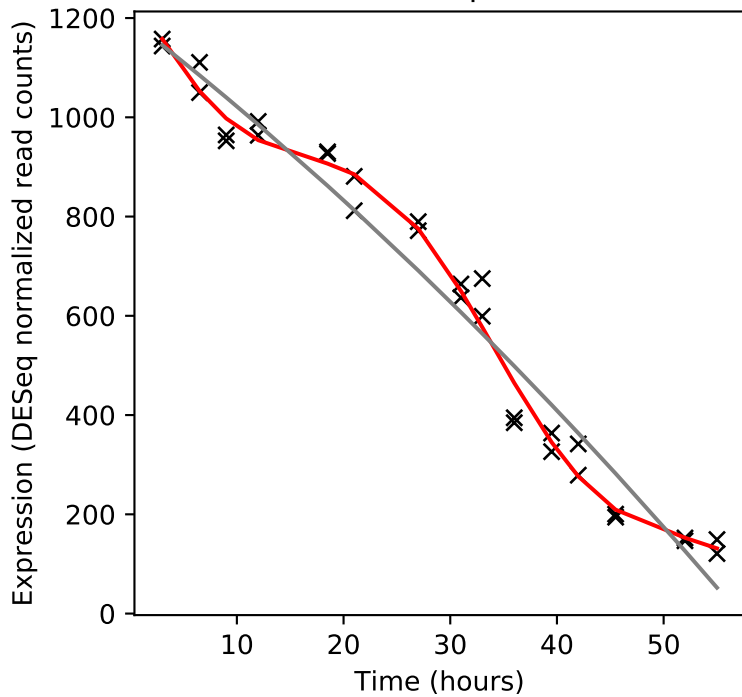
Rv0155/pntAa



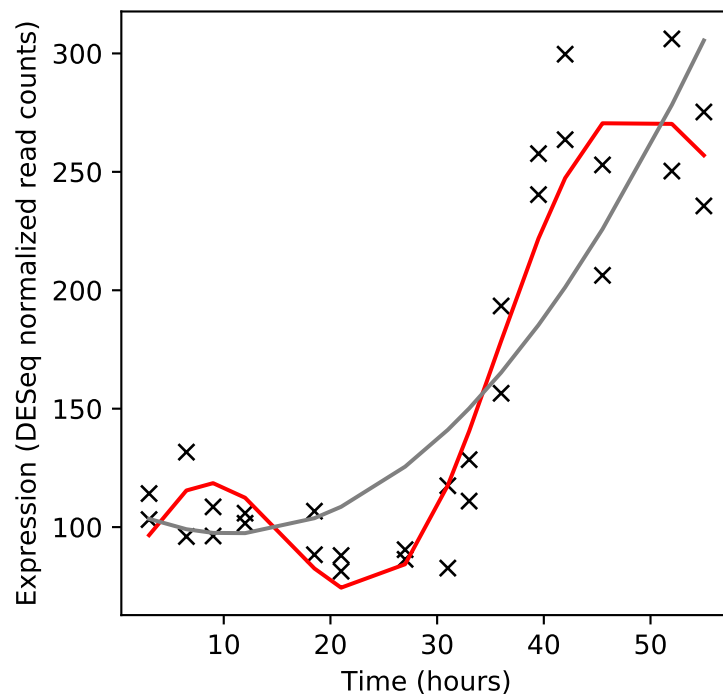
Rv0156/pntAb



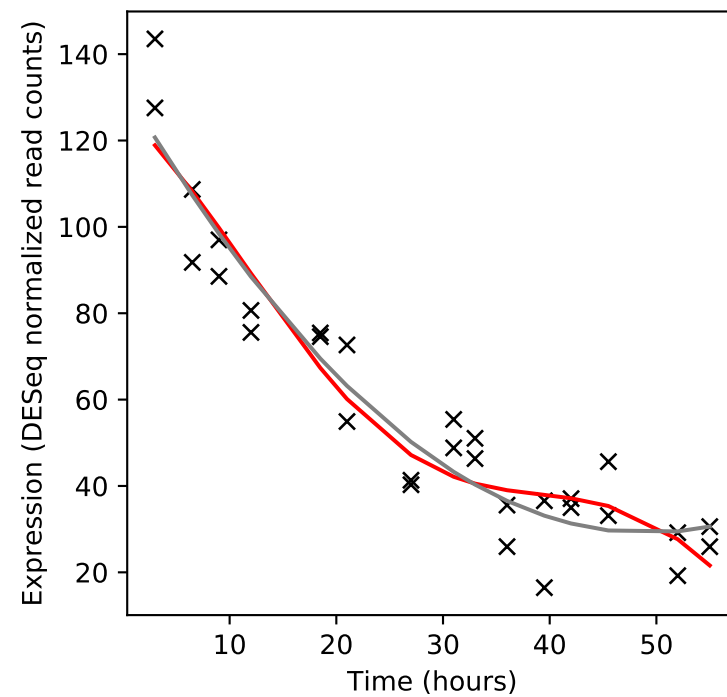
Rv0157/pntB



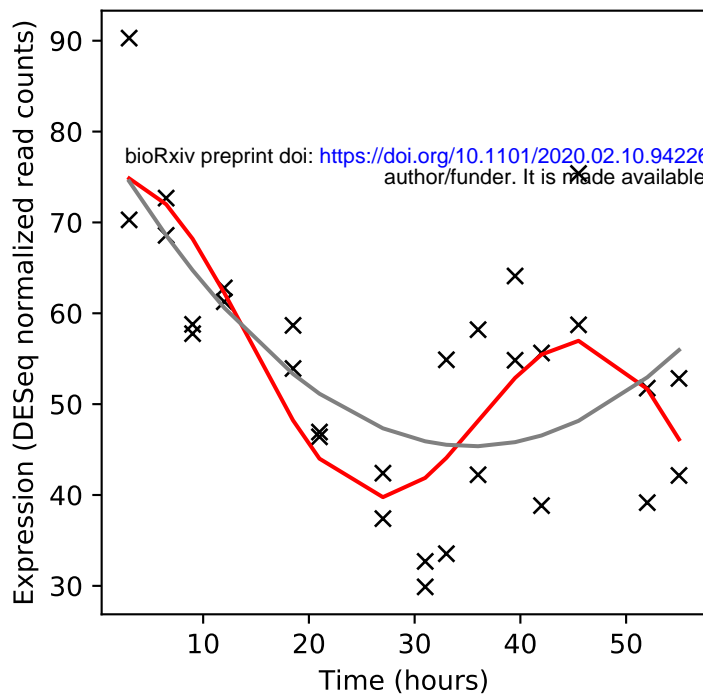
Rv0157A/-



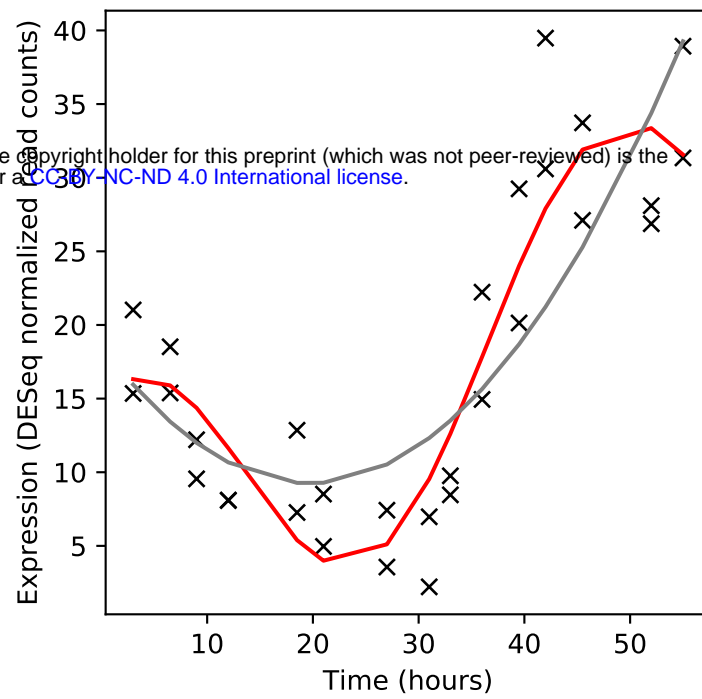
Rv0158/-



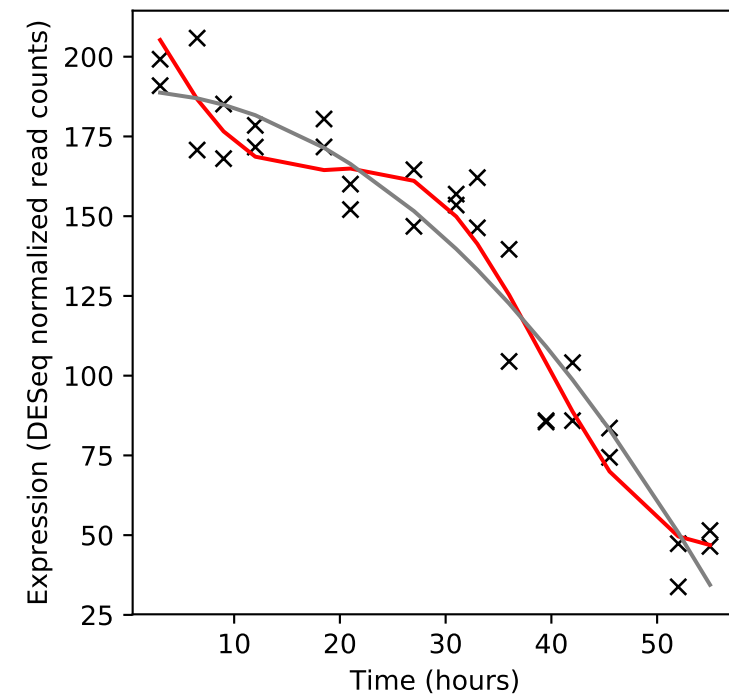
Rv0159c/PE3



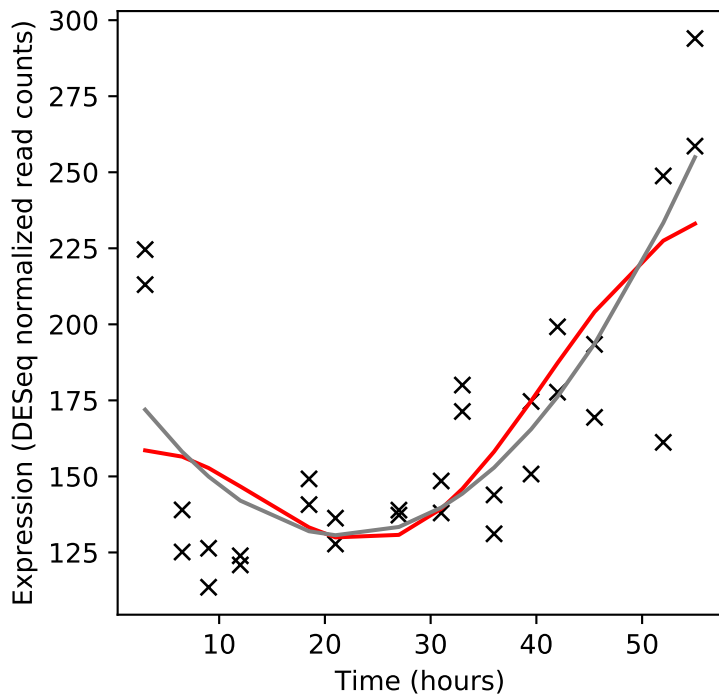
Rv0160c/PE4



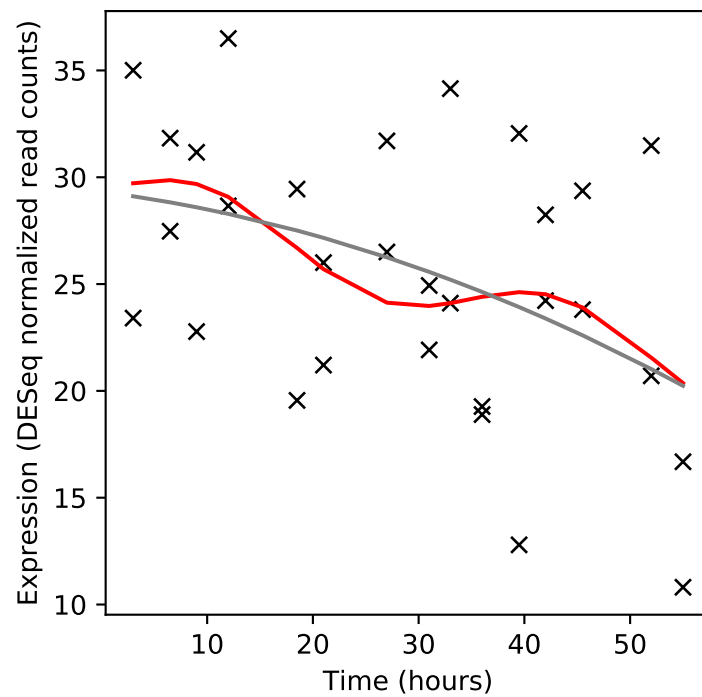
Rv0161/-



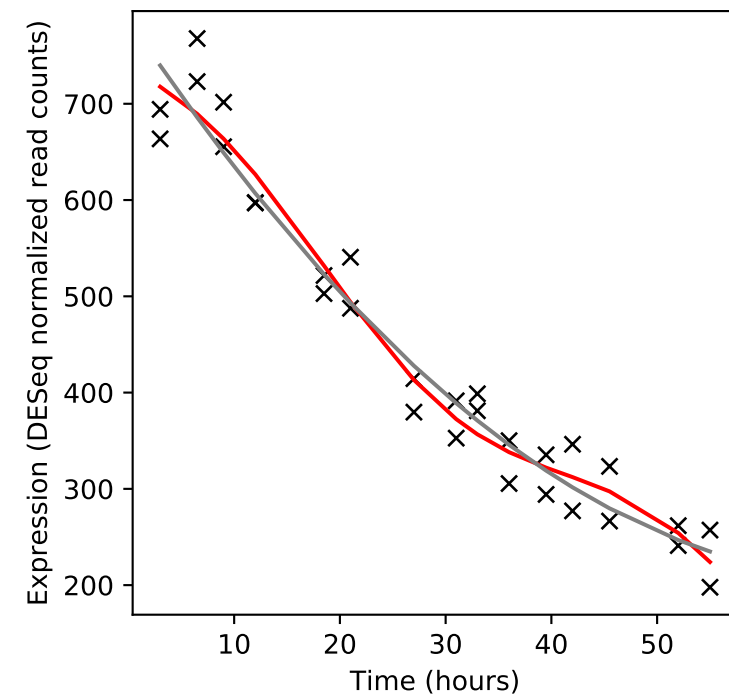
Rv0162c/adhE1



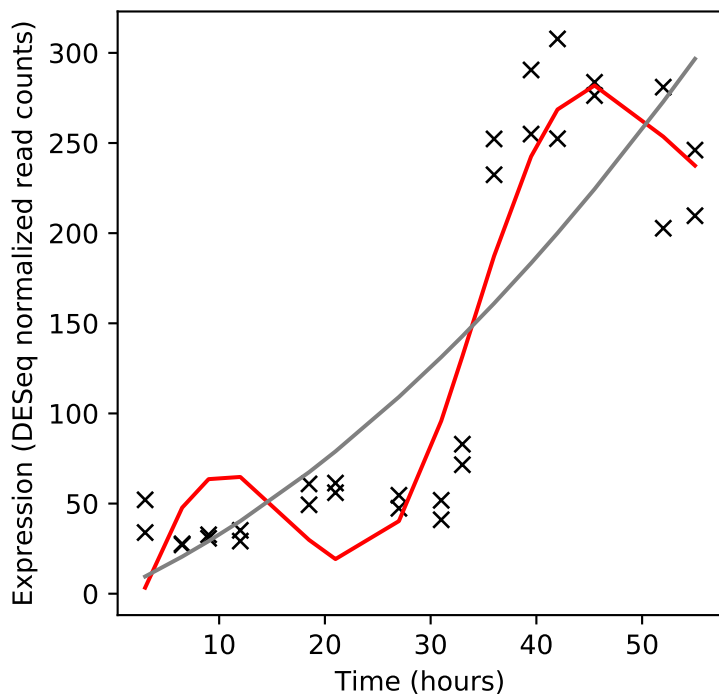
Rv0163/-



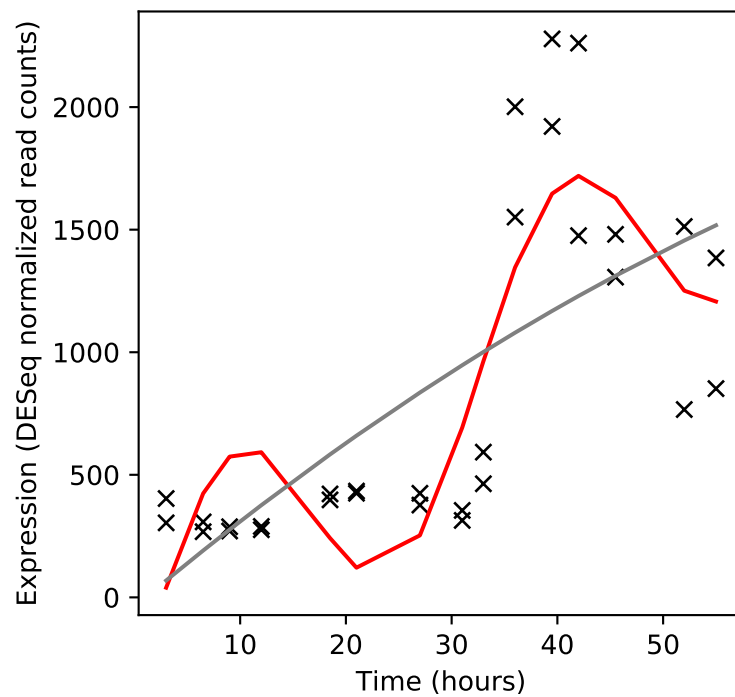
Rv0164/TB18.5



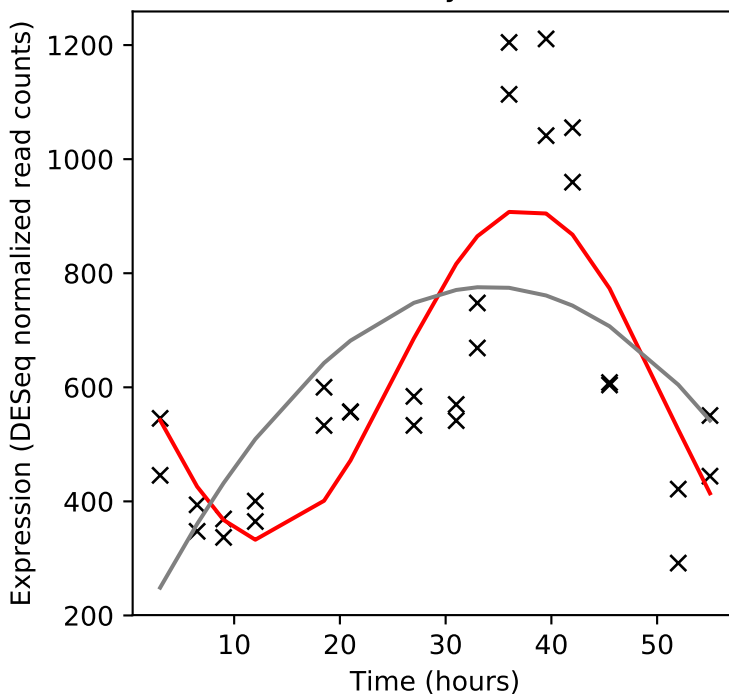
Rv0165c/mce1R



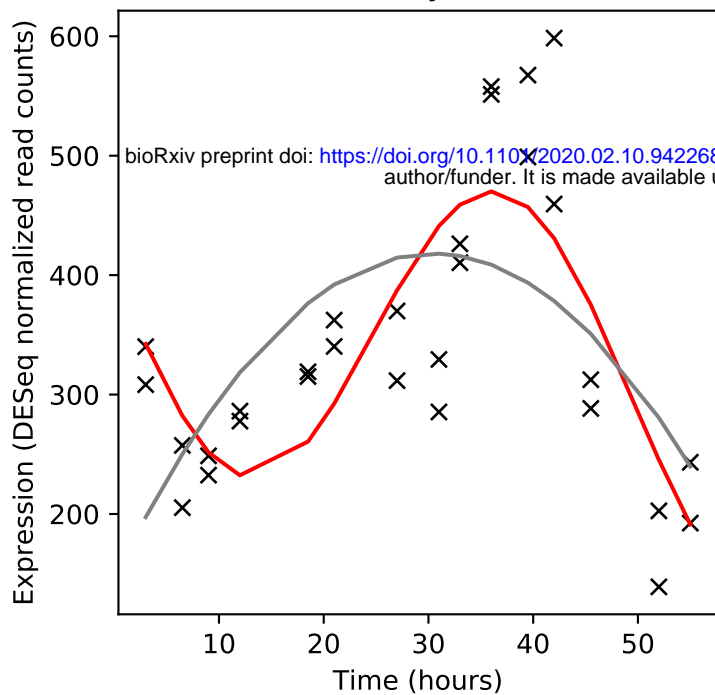
Rv0166/fadD5



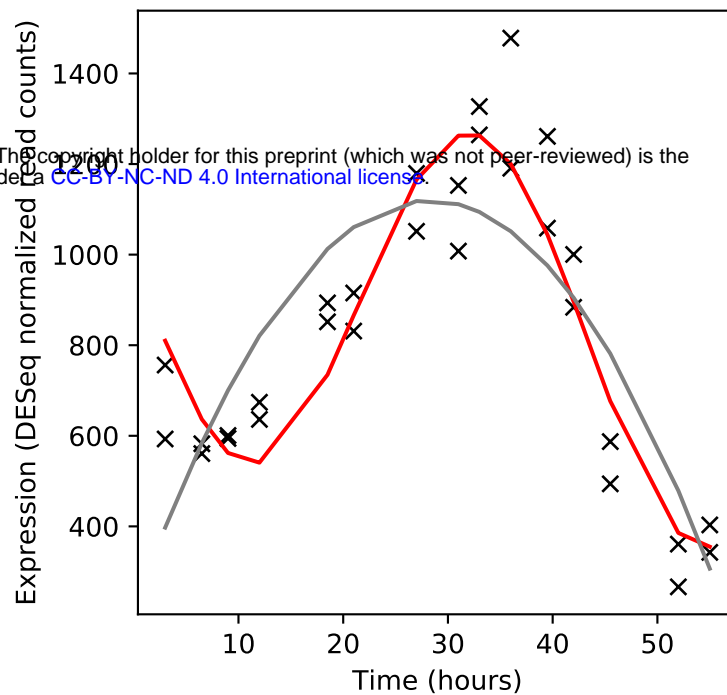
Rv0167/yrbE1A



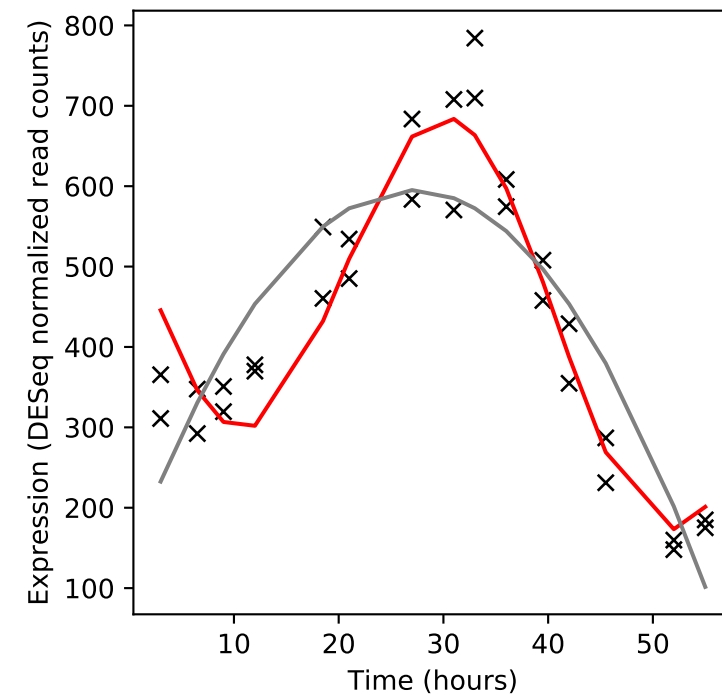
Rv0168/yrbE1B



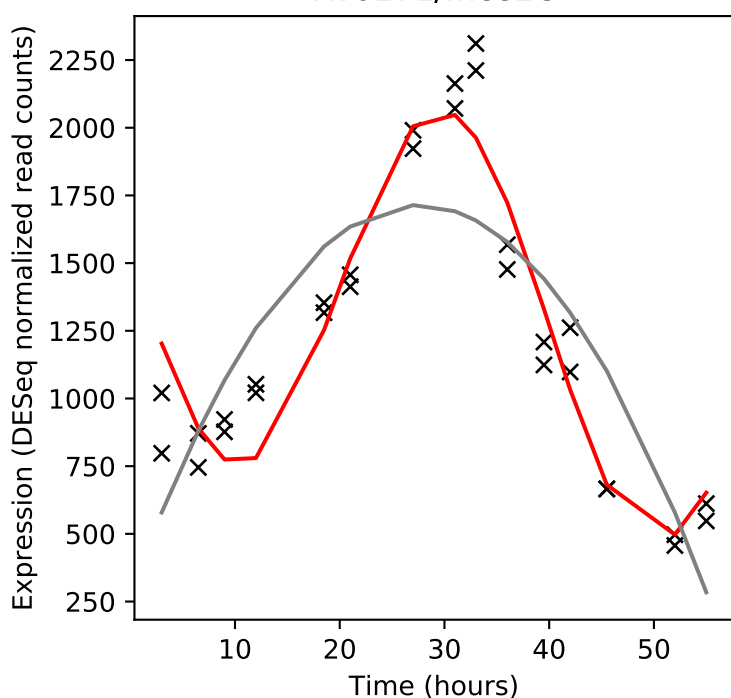
Rv0169/mce1A



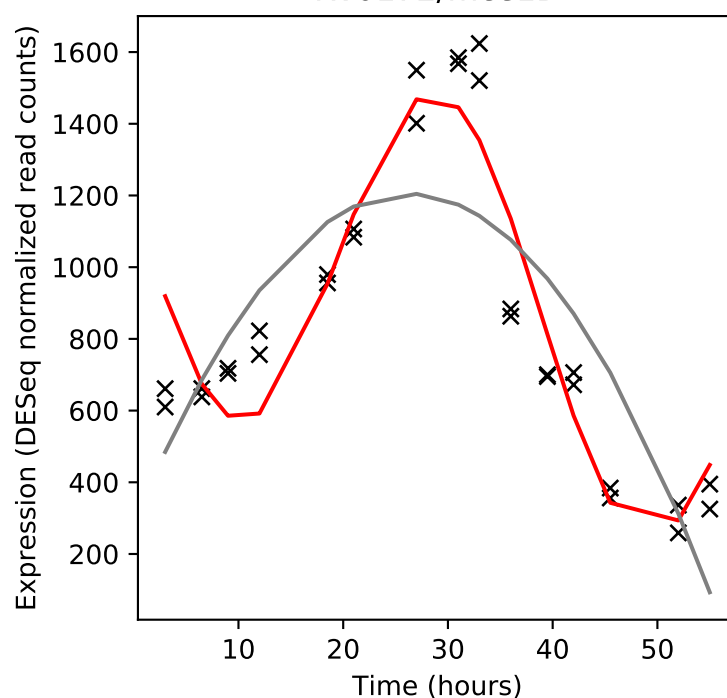
Rv0170/mce1B



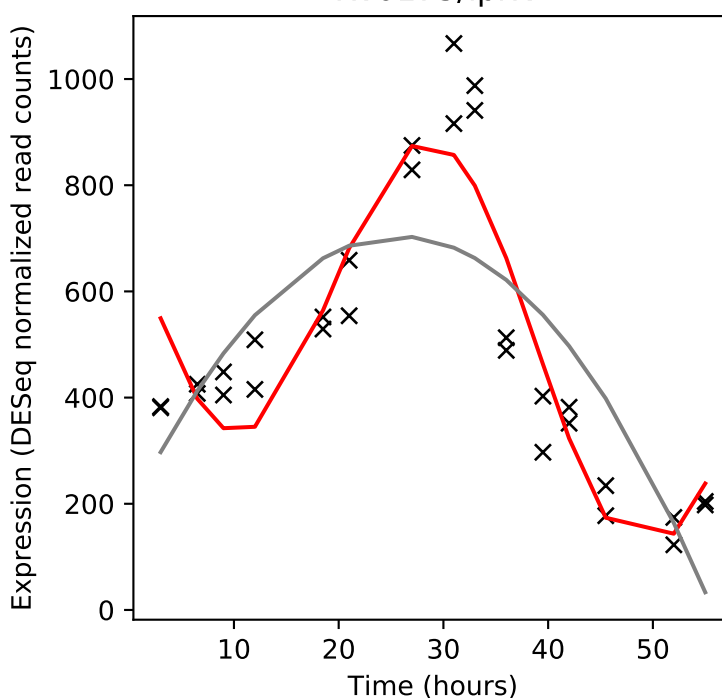
Rv0171/mce1C



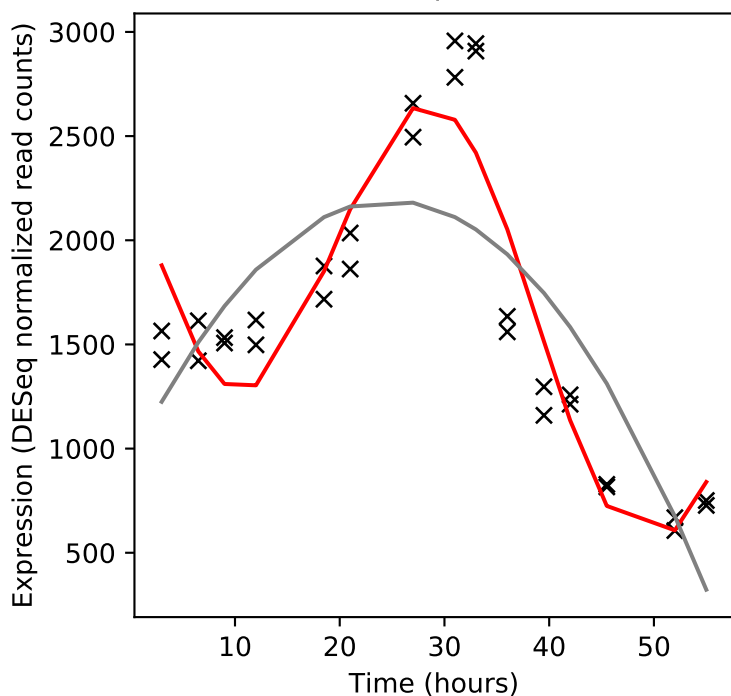
Rv0172/mce1D



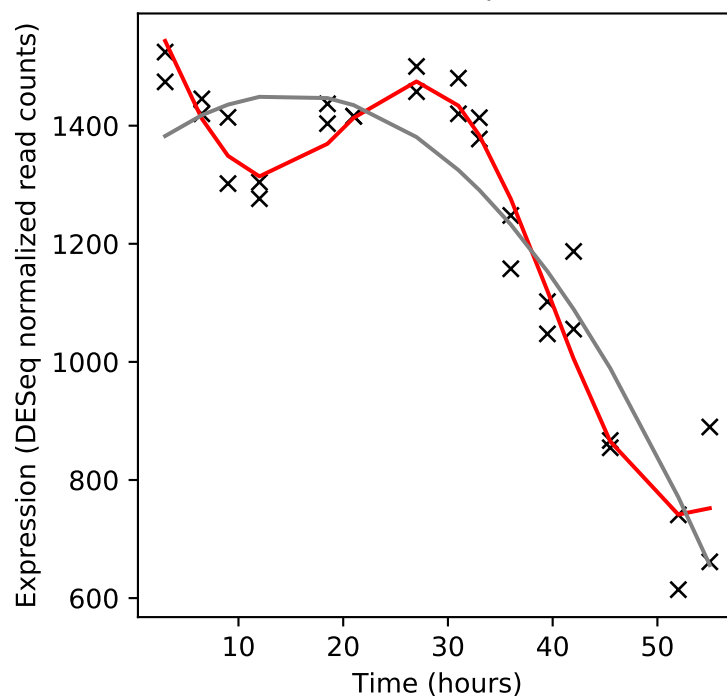
Rv0173/lprK



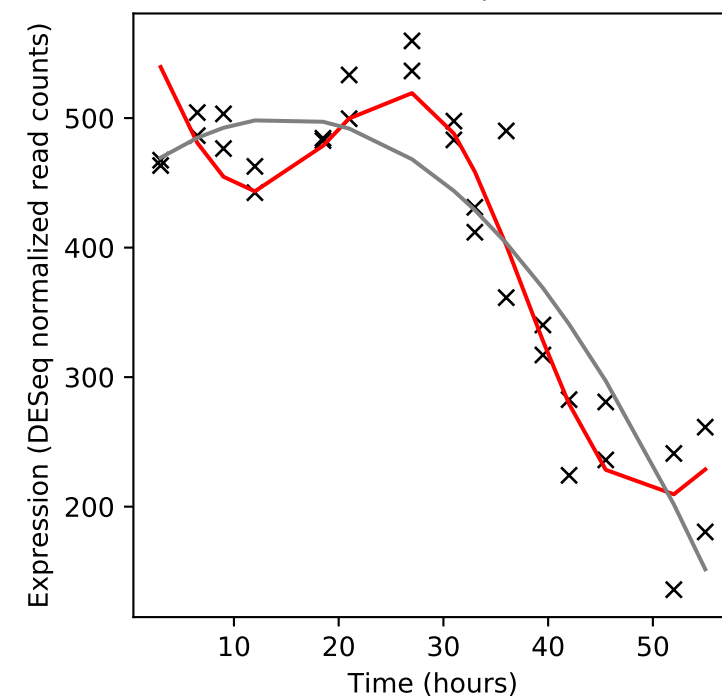
Rv0174/mce1F



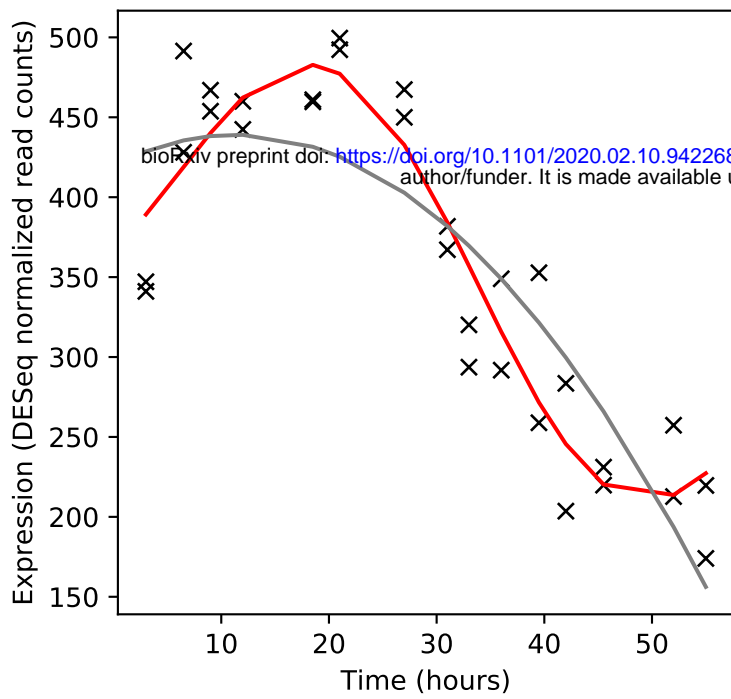
Rv0175/-



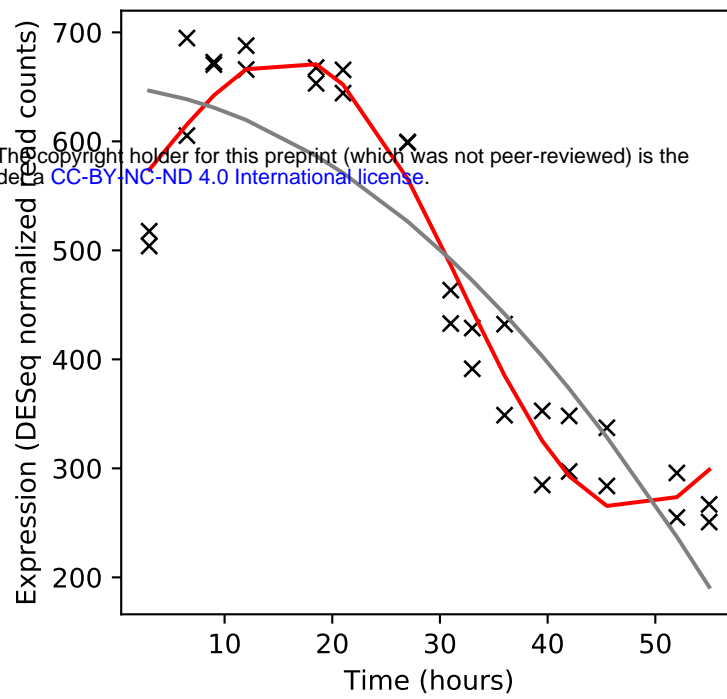
Rv0176/-



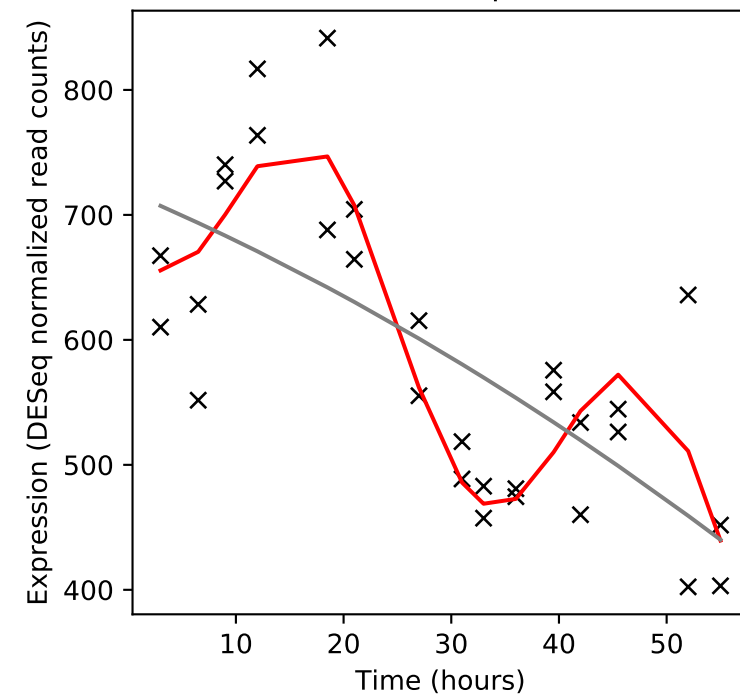
Rv0177/-



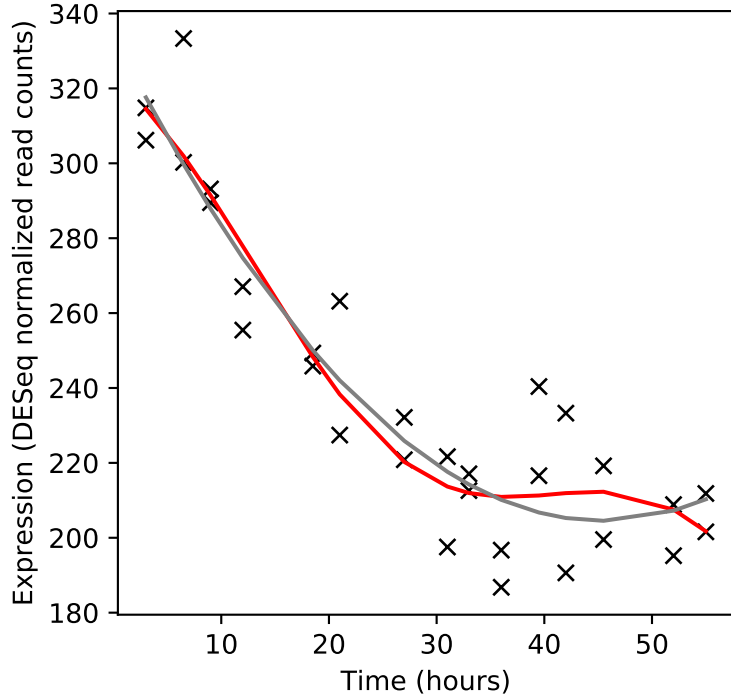
Rv0178/-



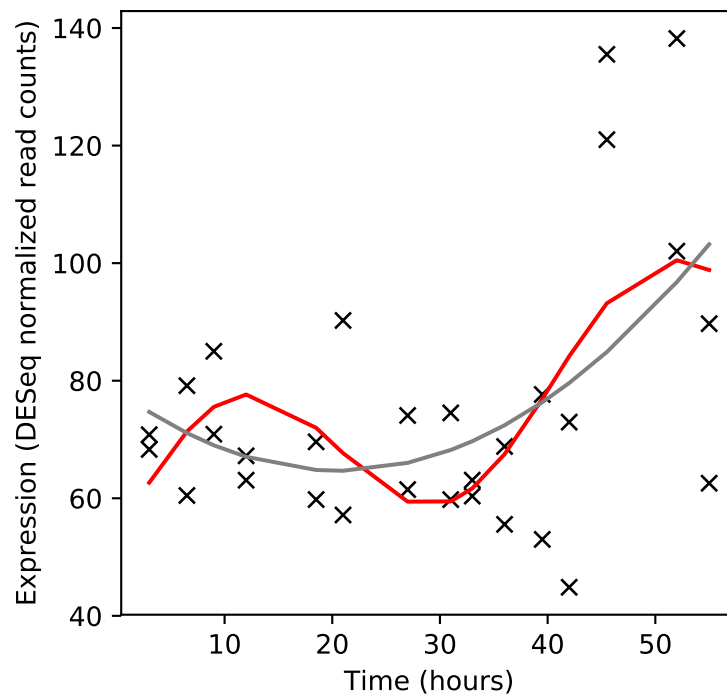
Rv0179c/lprO



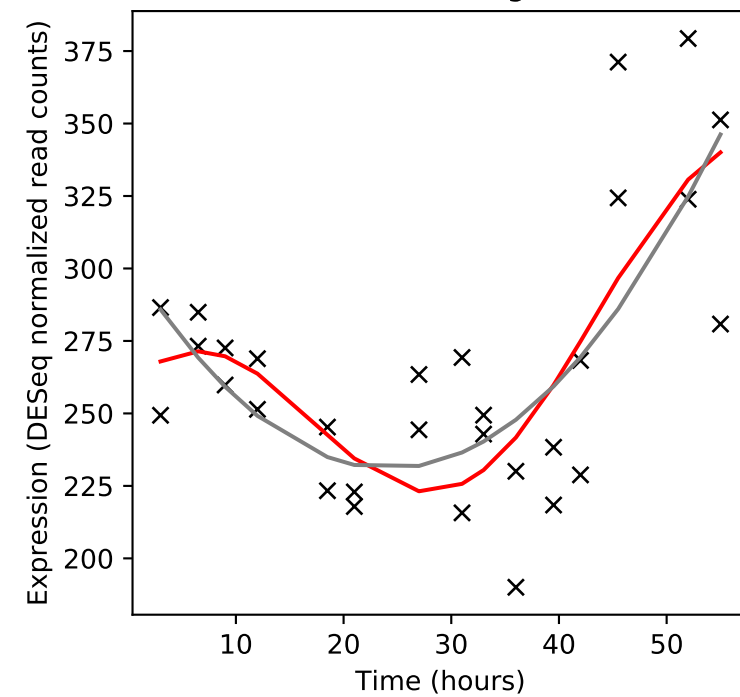
Rv0180c/-



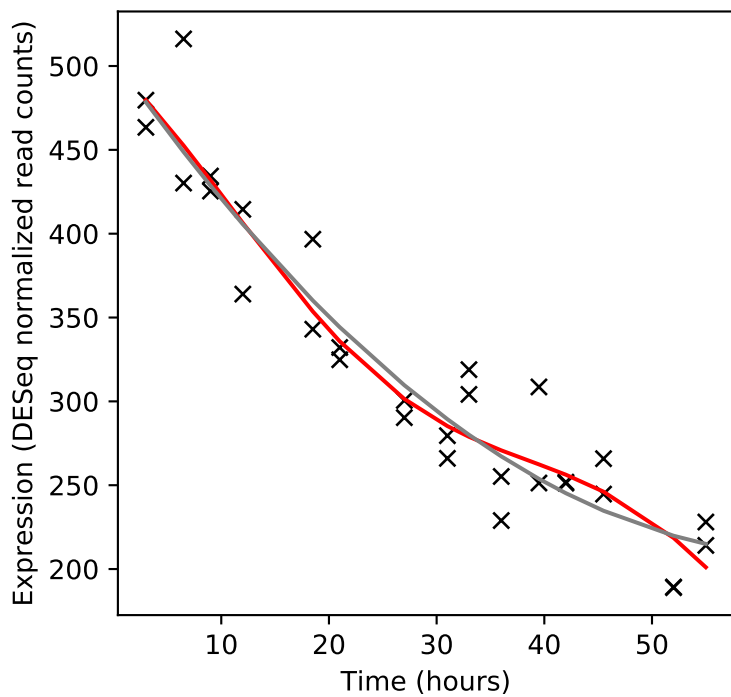
Rv0181c/-



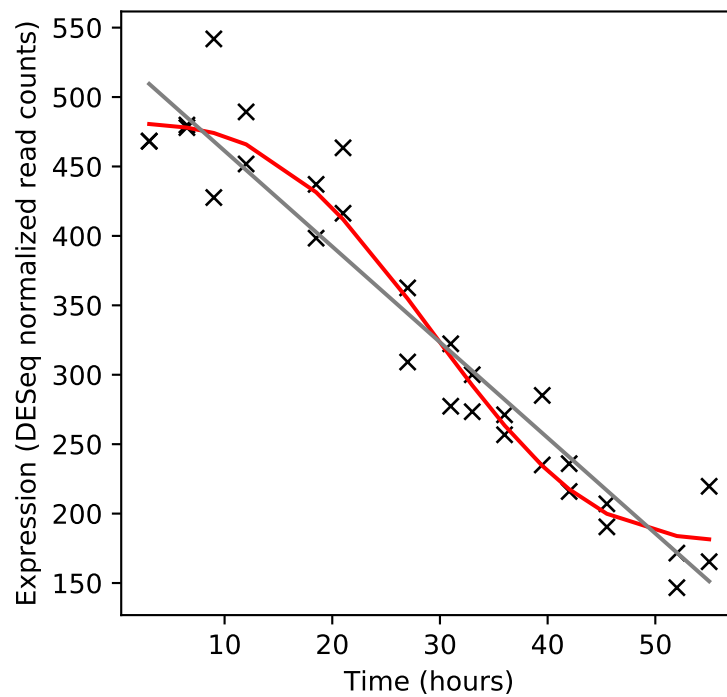
Rv0182c/sigG



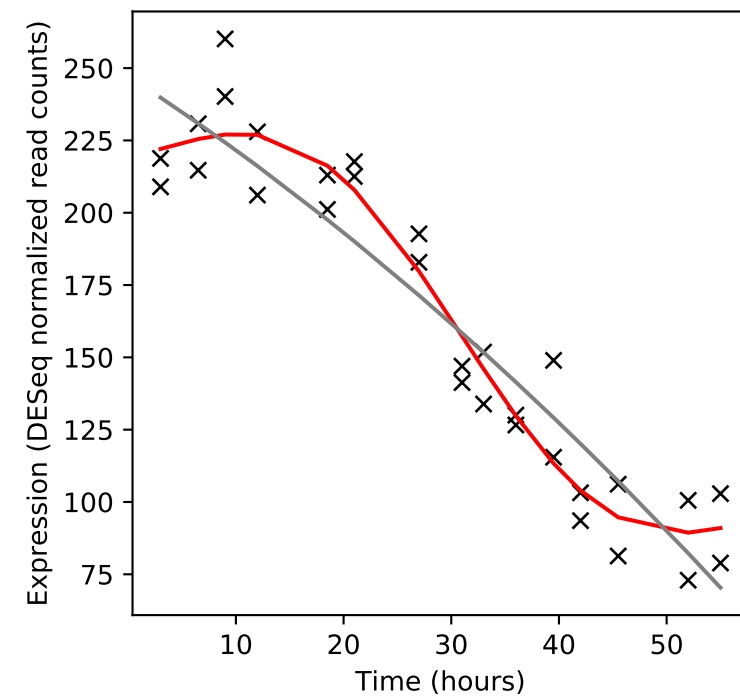
Rv0183/-



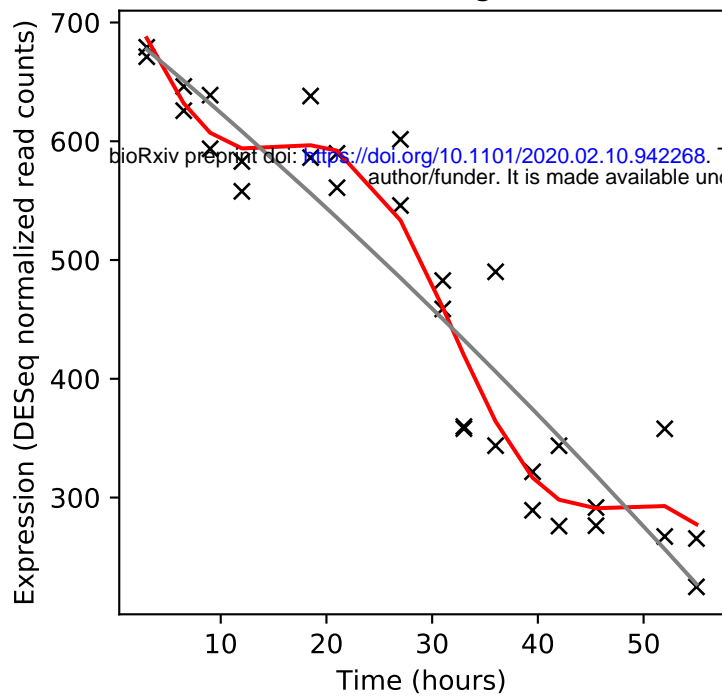
Rv0184/-



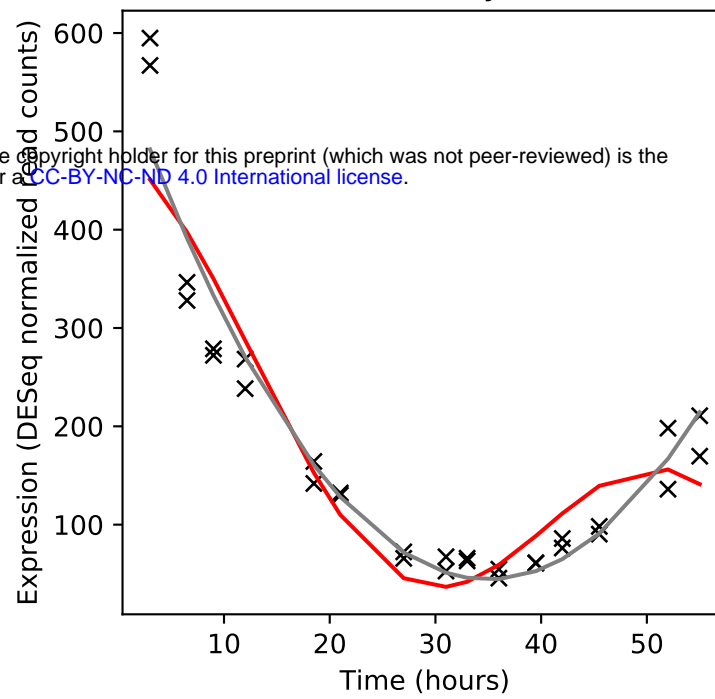
Rv0185/-



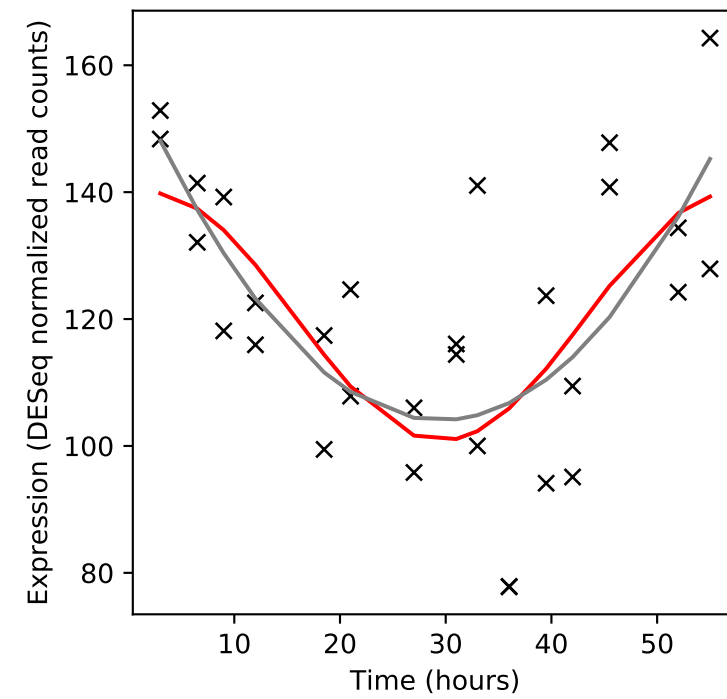
Rv0186/bgIS



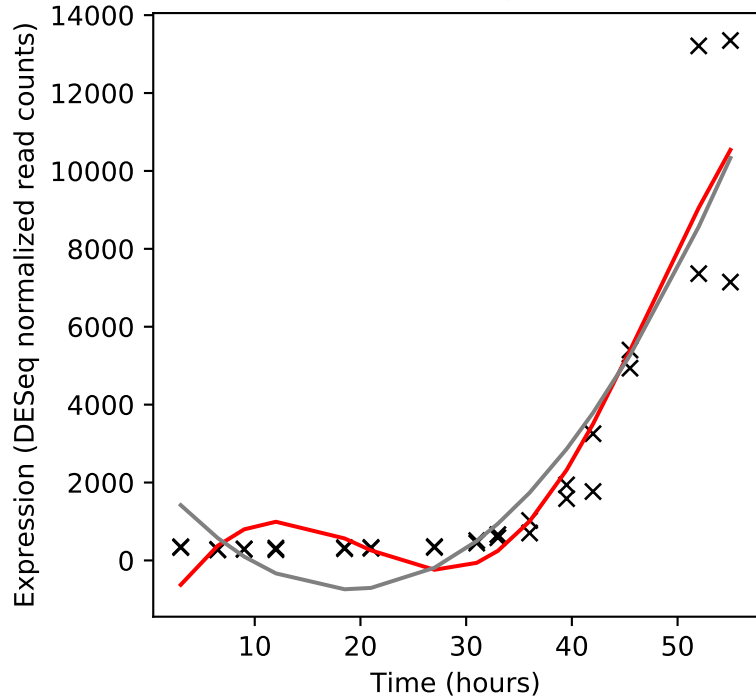
Rv0186A/mymT



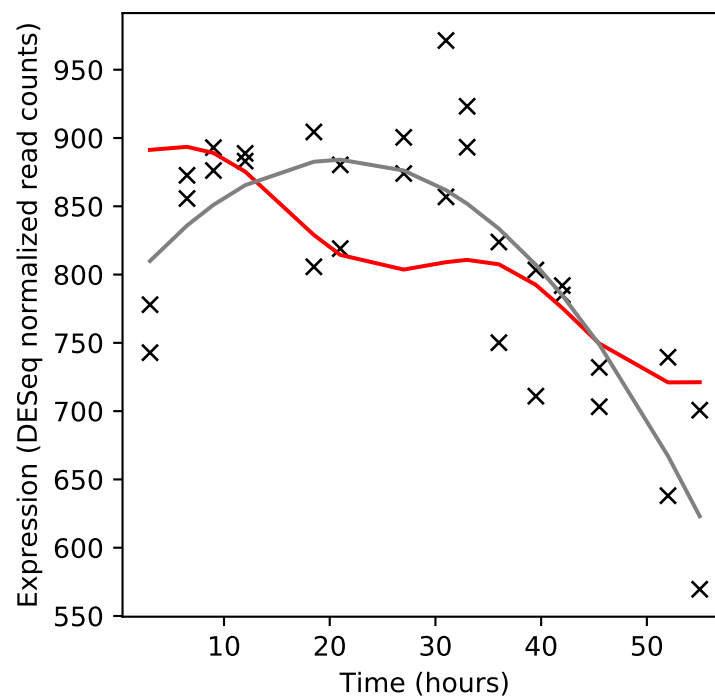
Rv0187/-



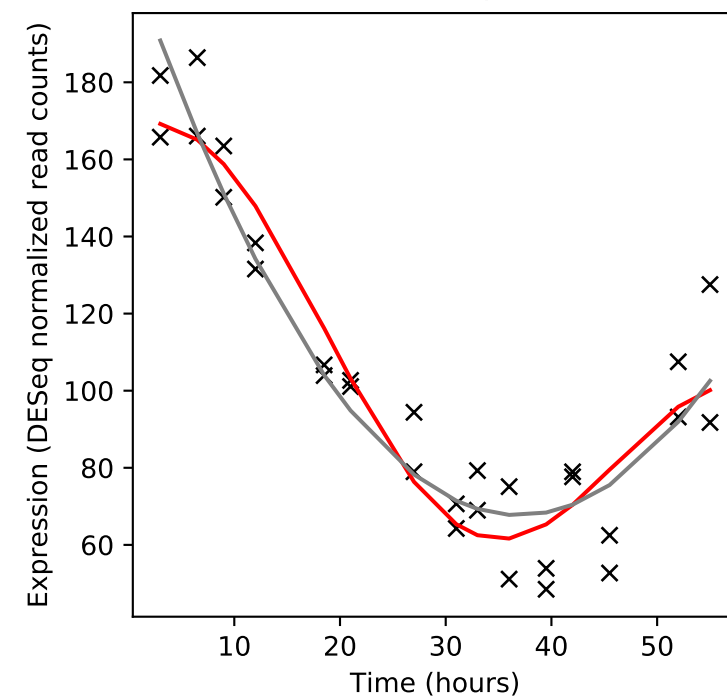
Rv0188/-



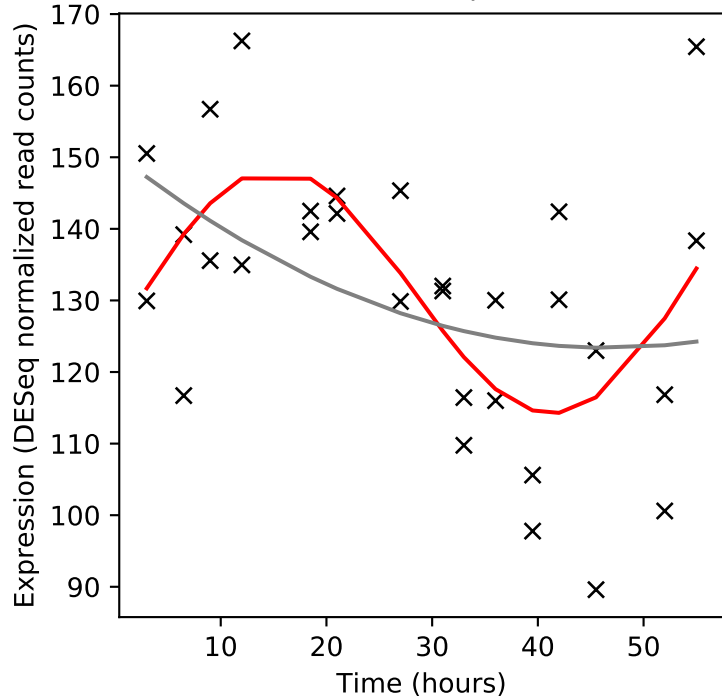
Rv0189c/ilvD



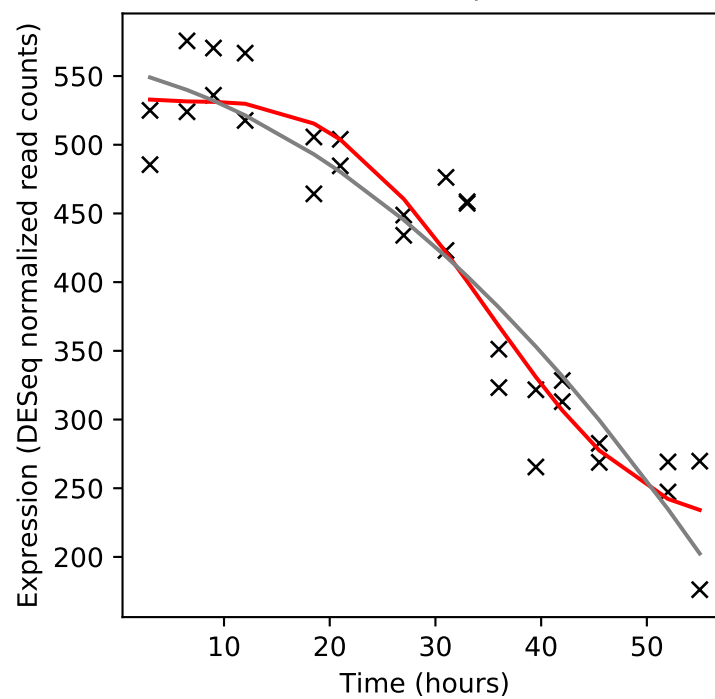
Rv0190/-



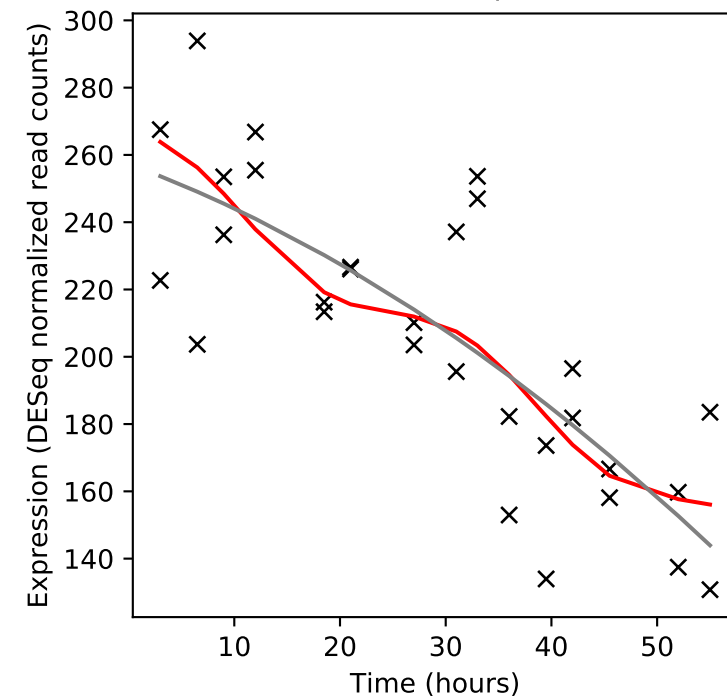
Rv0191/-



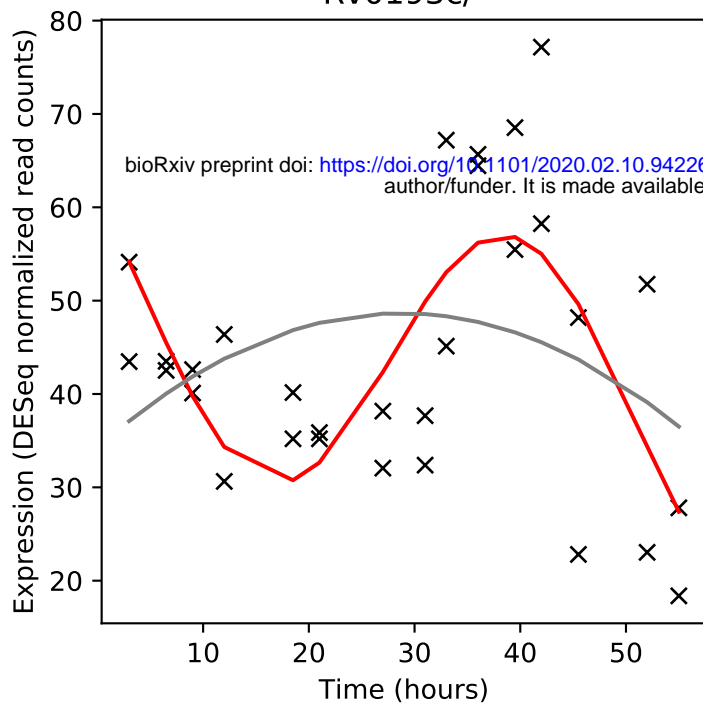
Rv0192/-



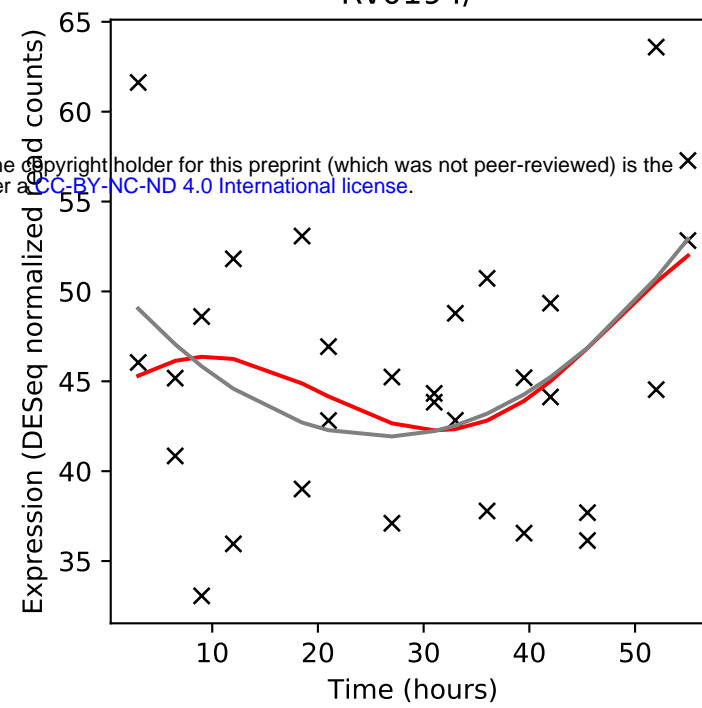
Rv0192A/-



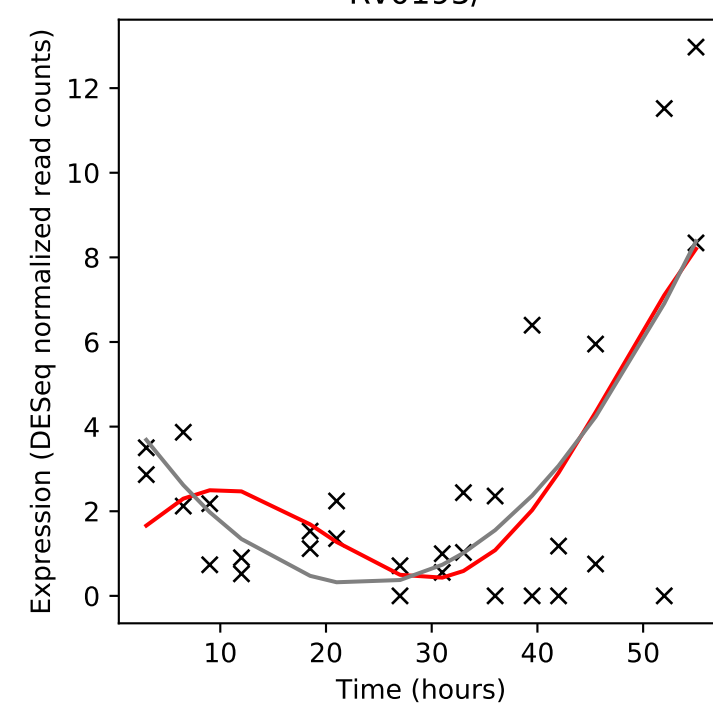
Rv0193c/-



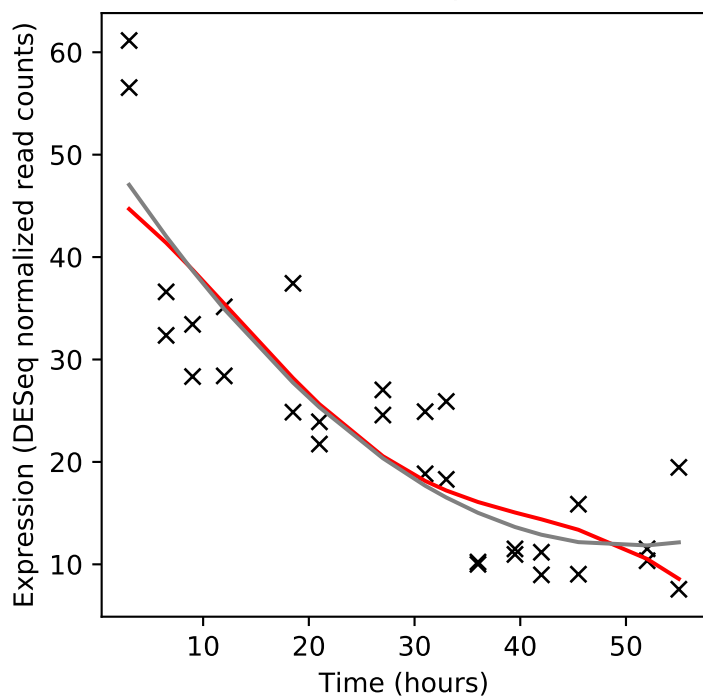
Rv0194/-



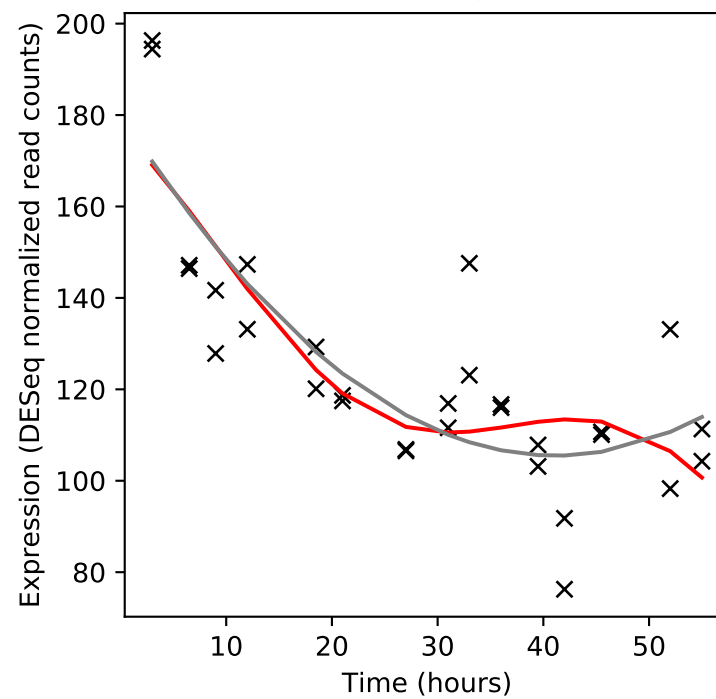
Rv0195/-



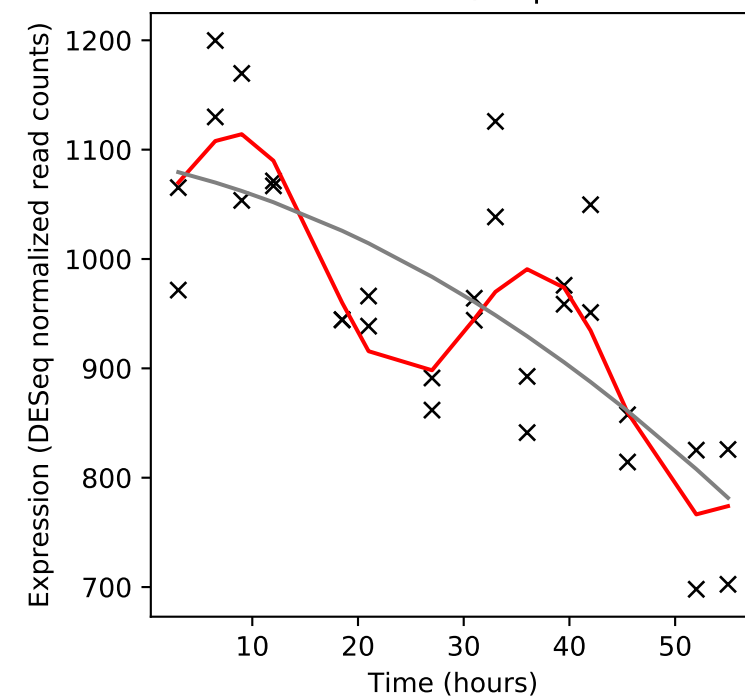
Rv0196/-



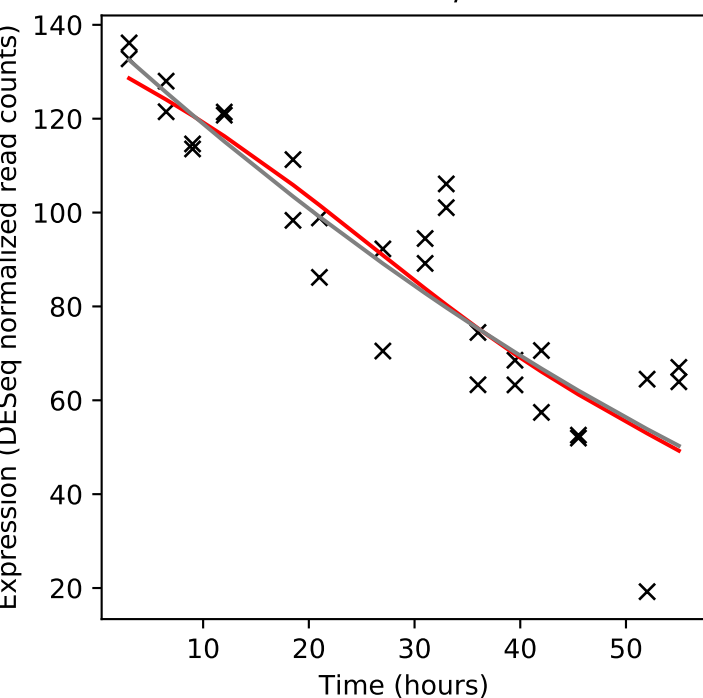
Rv0197/-



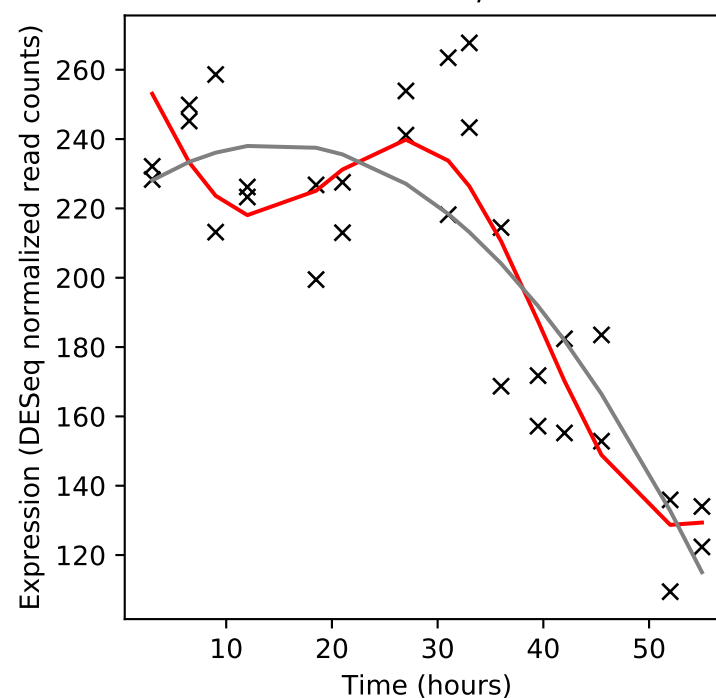
Rv0198c/zmp1



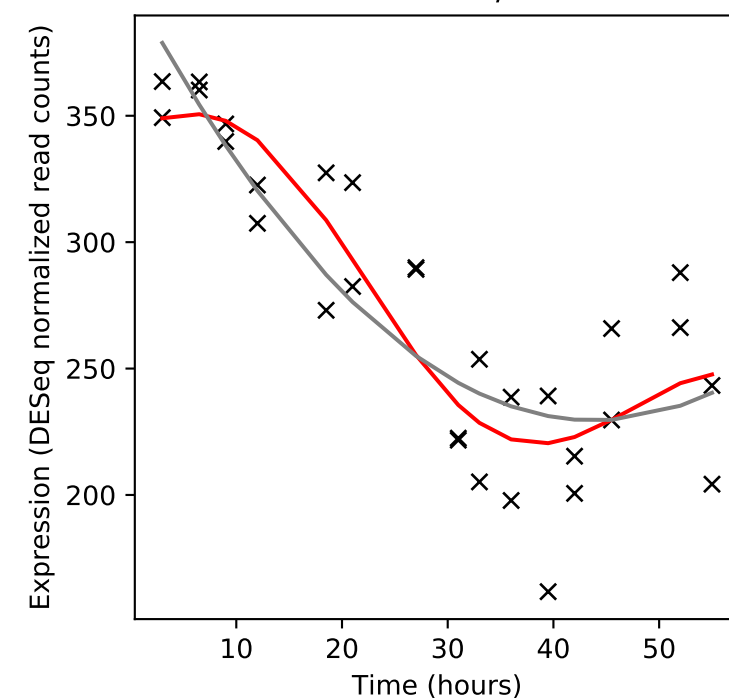
Rv0199/-



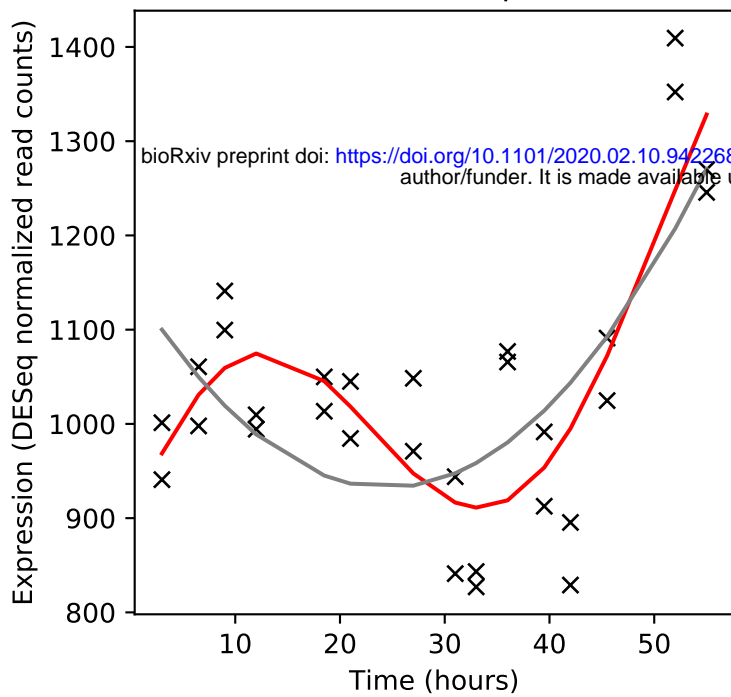
Rv0200/-



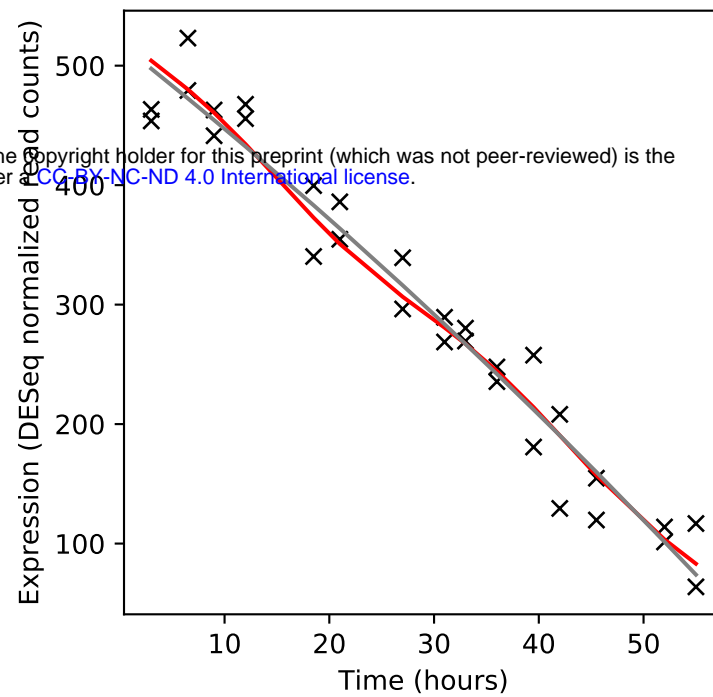
Rv0201c/-



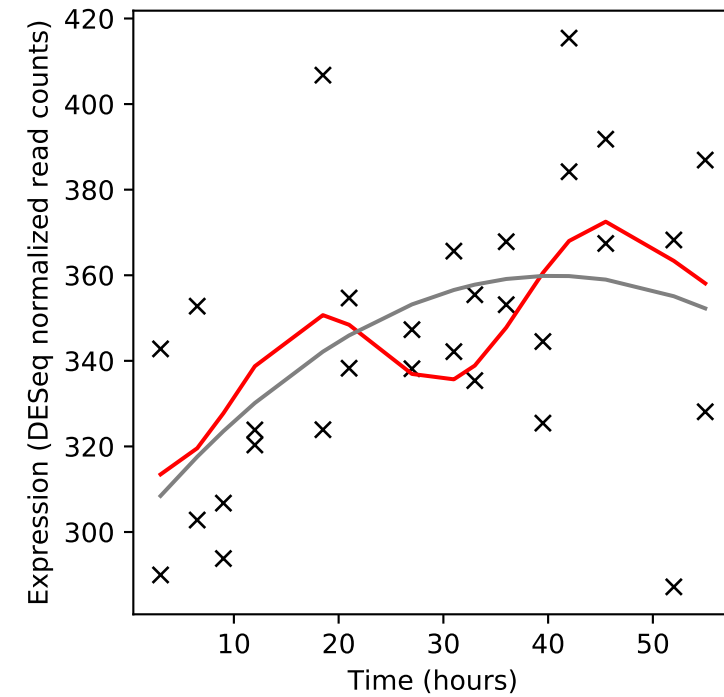
Rv0202c/mmpL1



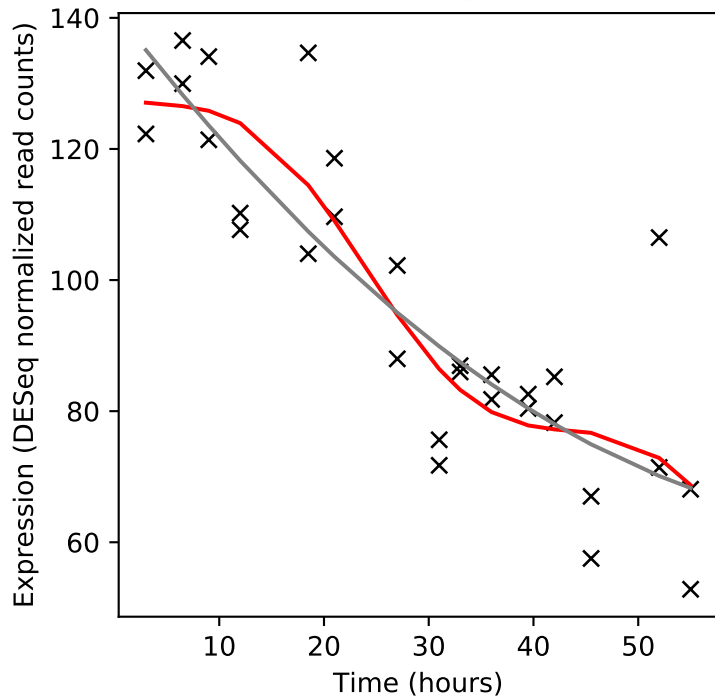
Rv0203/-



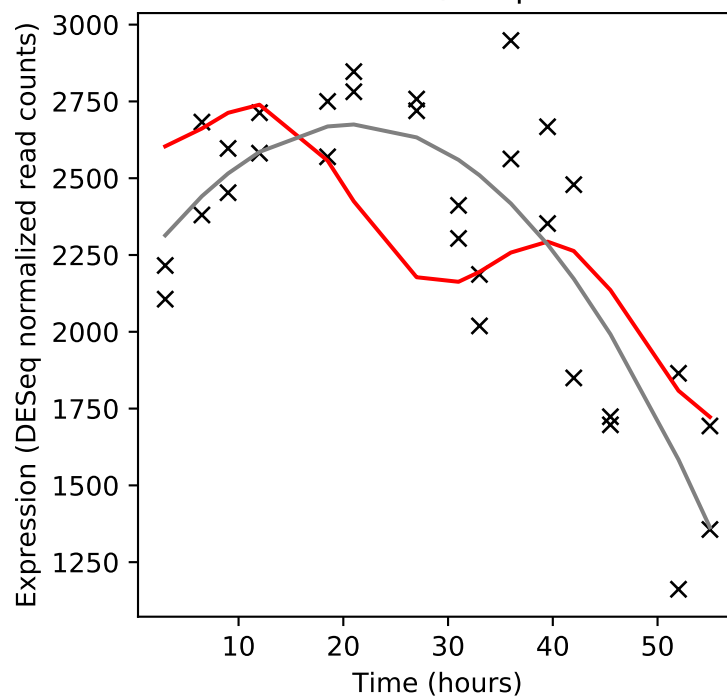
Rv0204c/-



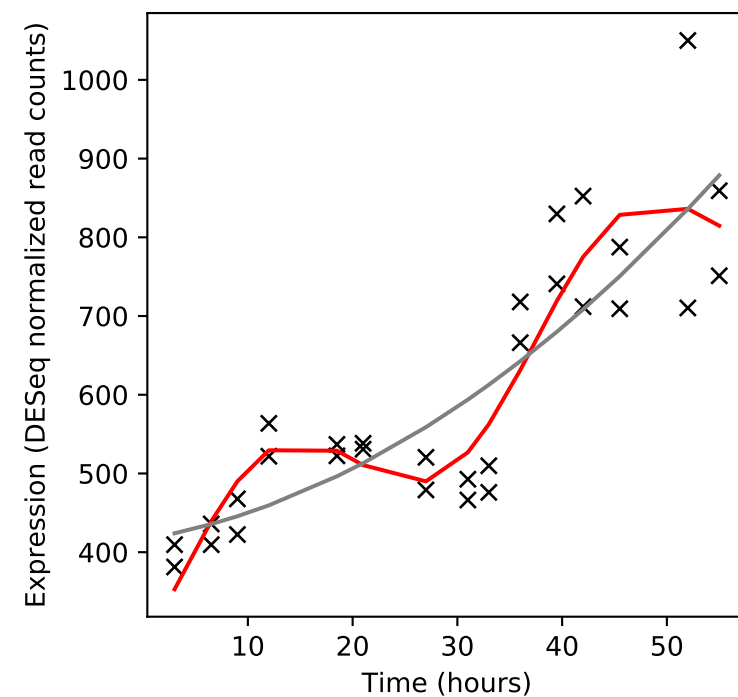
Rv0205/-



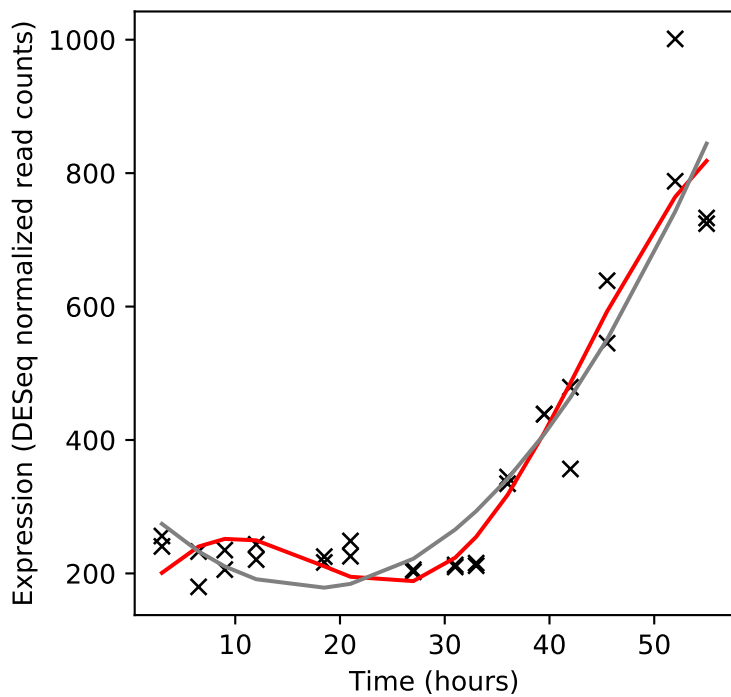
Rv0206c/mmpL3



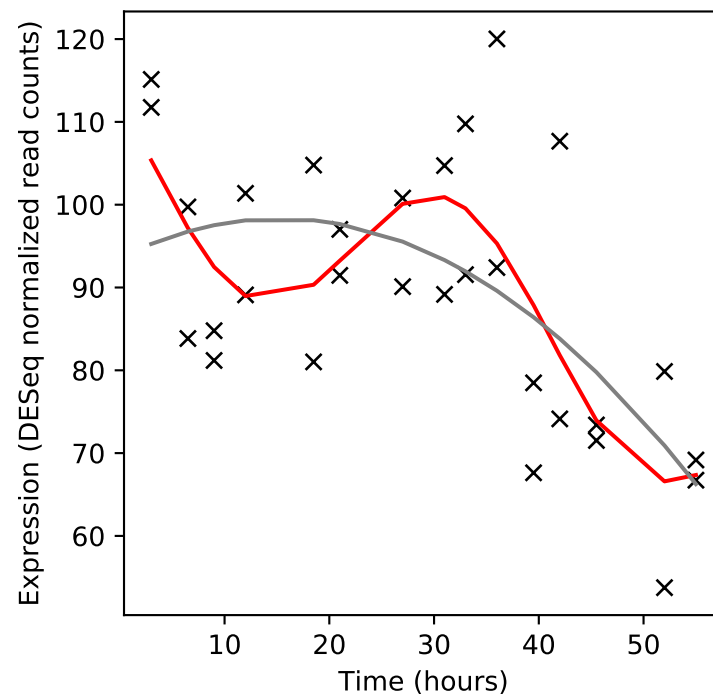
Rv0207c/-



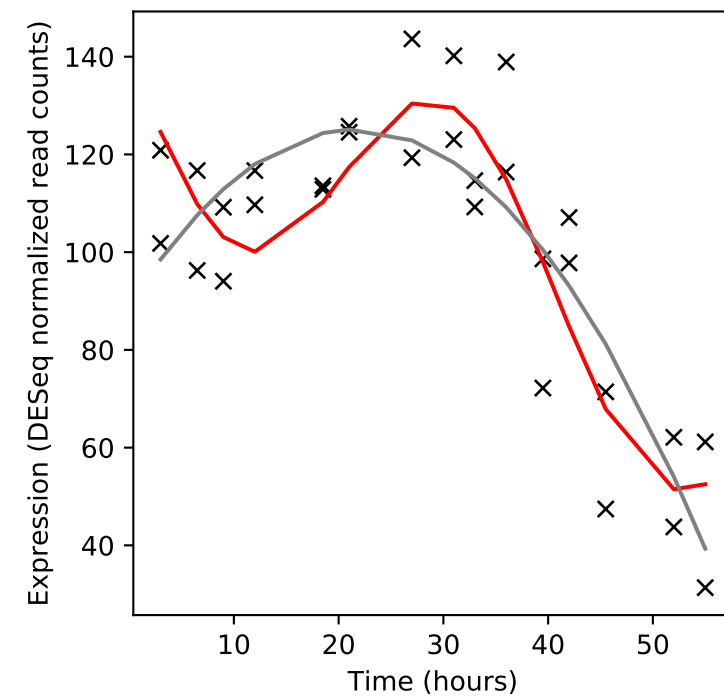
Rv0208c/-



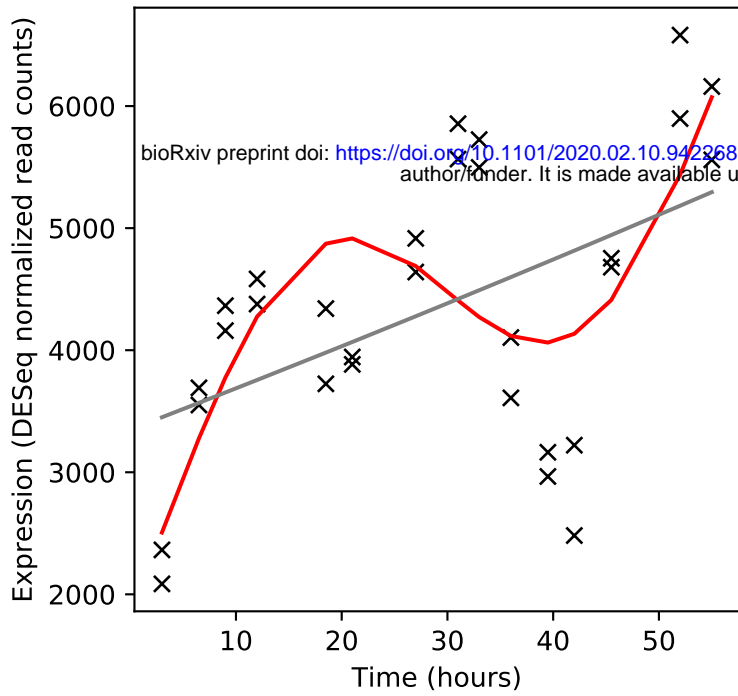
Rv0209/-



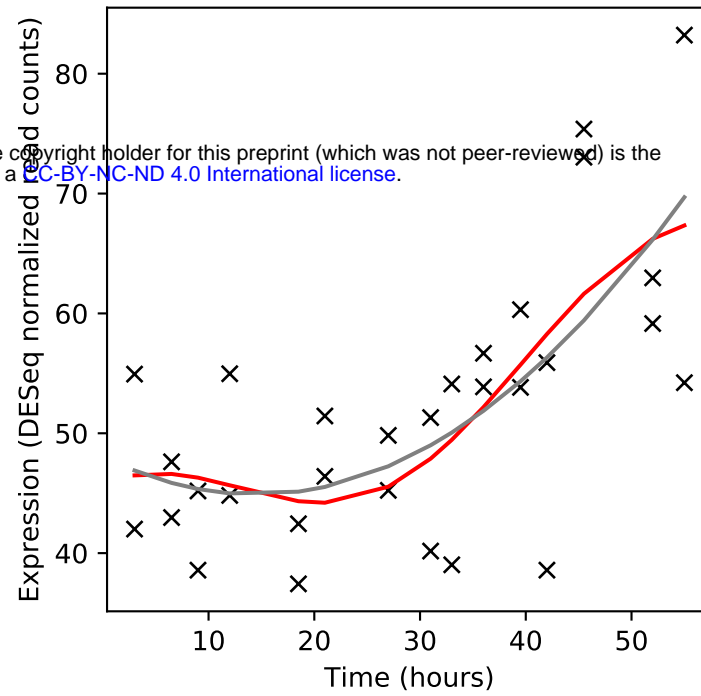
Rv0210/-



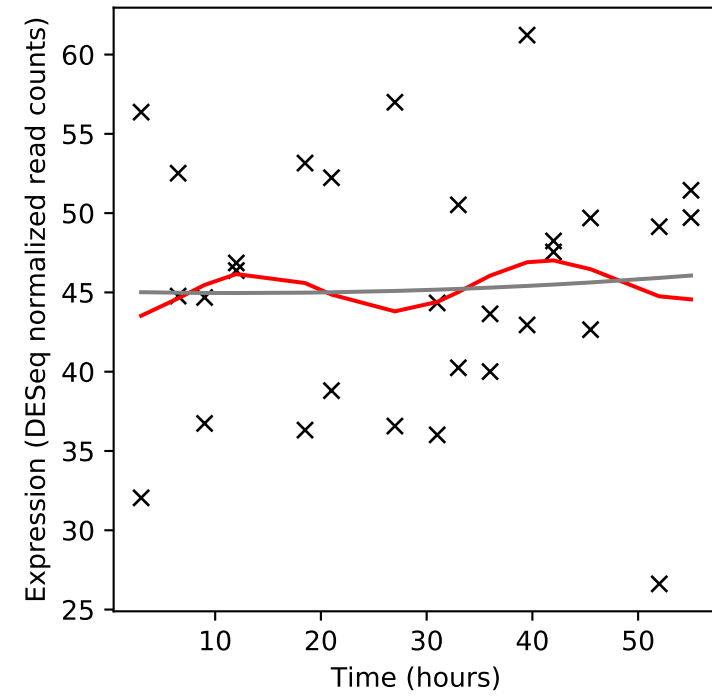
Rv0211/pckA



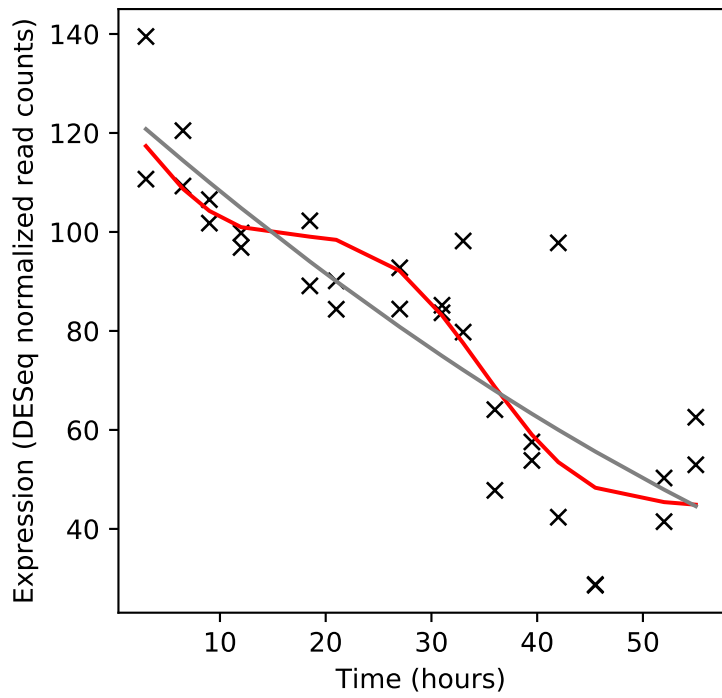
Rv0212c/nadR



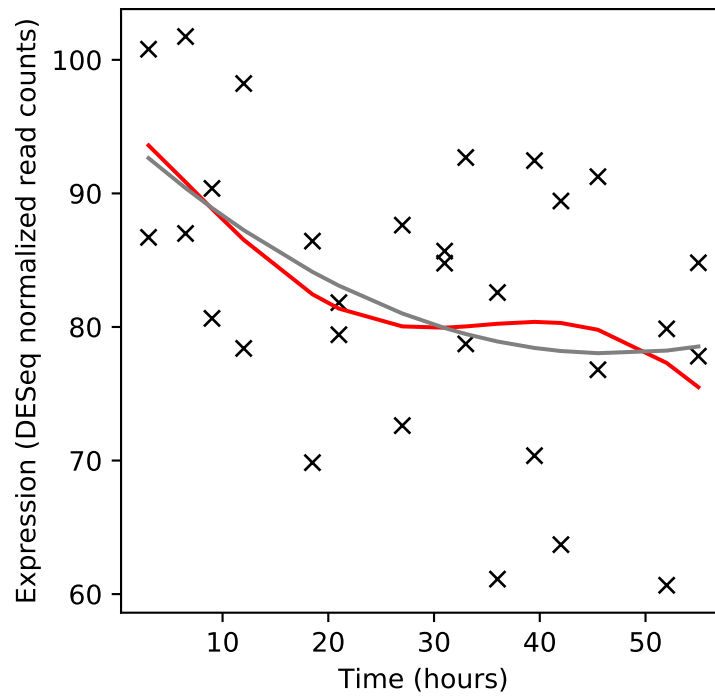
Rv0213c/-



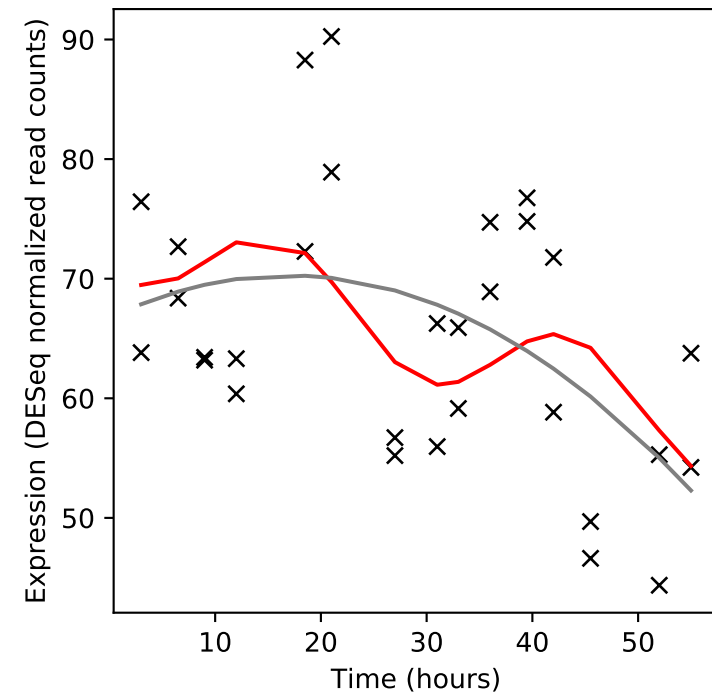
Rv0214/fadD4



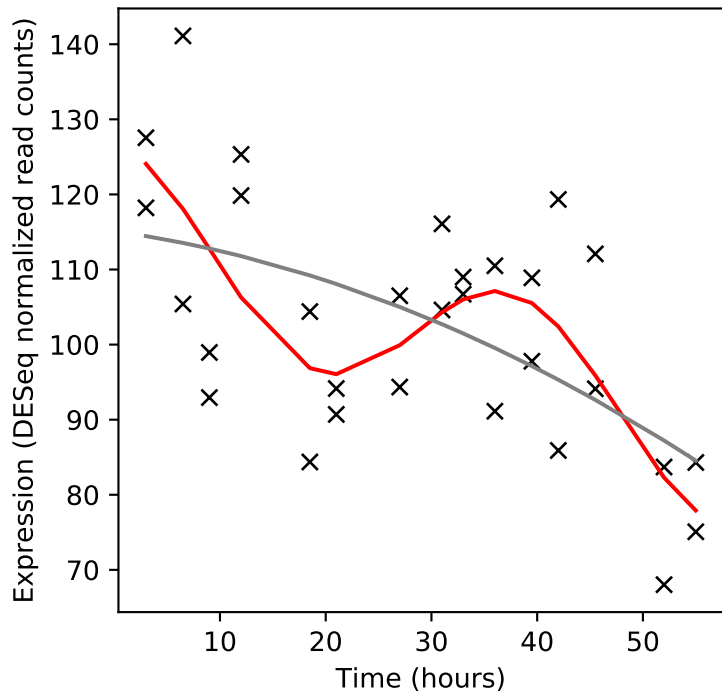
Rv0215c/fadE3



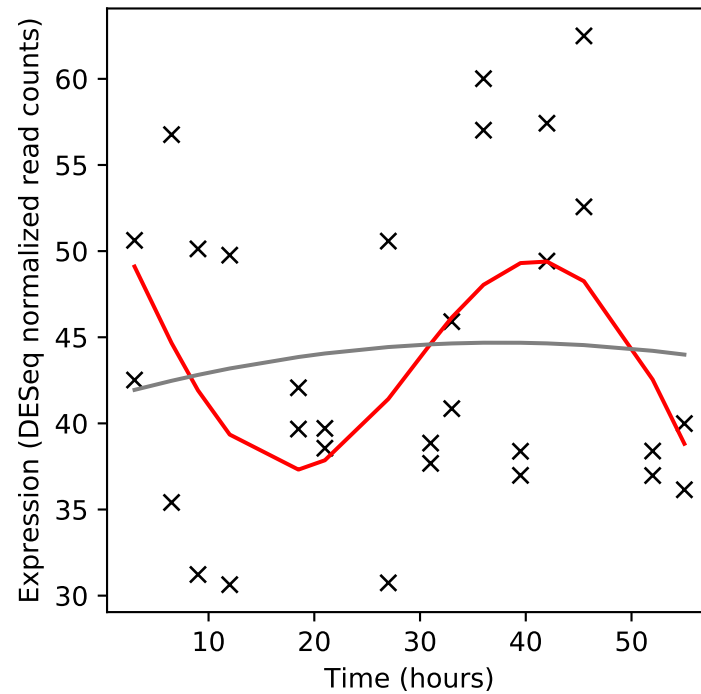
Rv0216/-



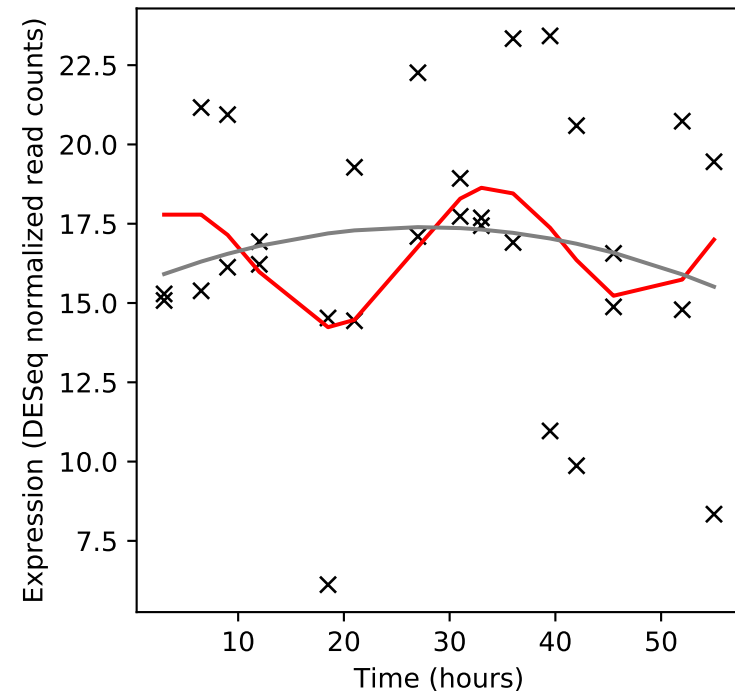
Rv0217c/lipW



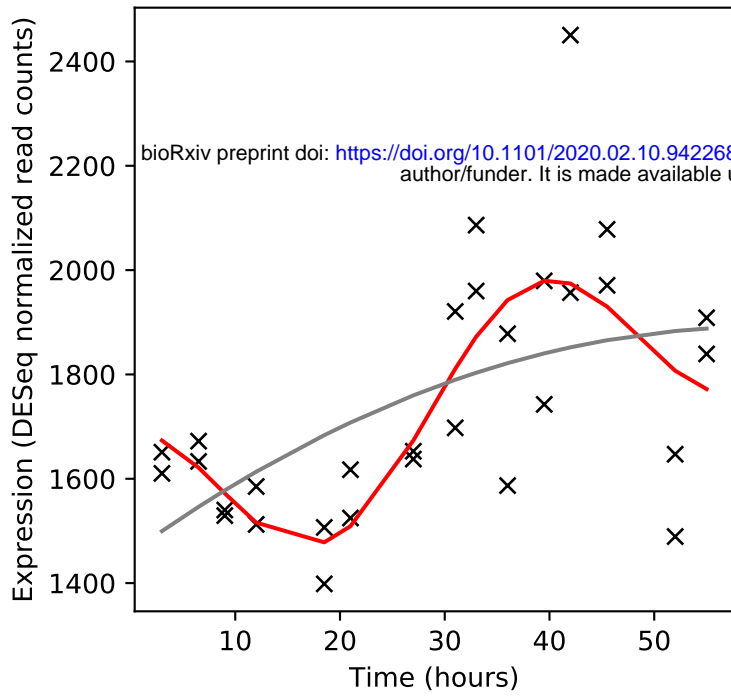
Rv0218/-



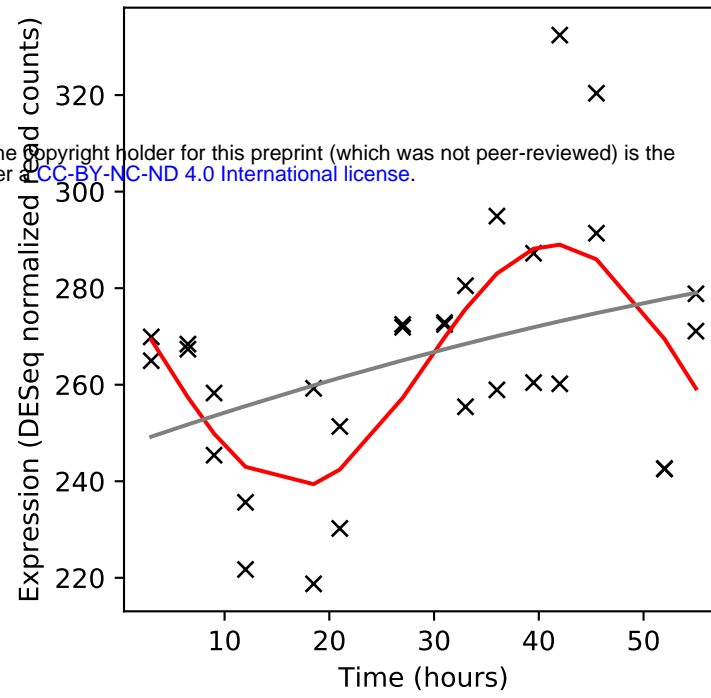
Rv0219/-



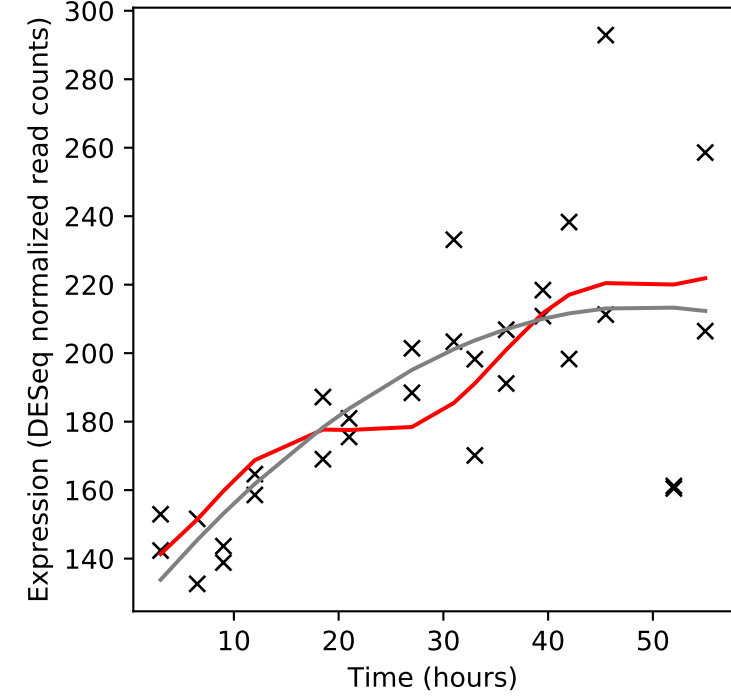
Rv0220/lipC



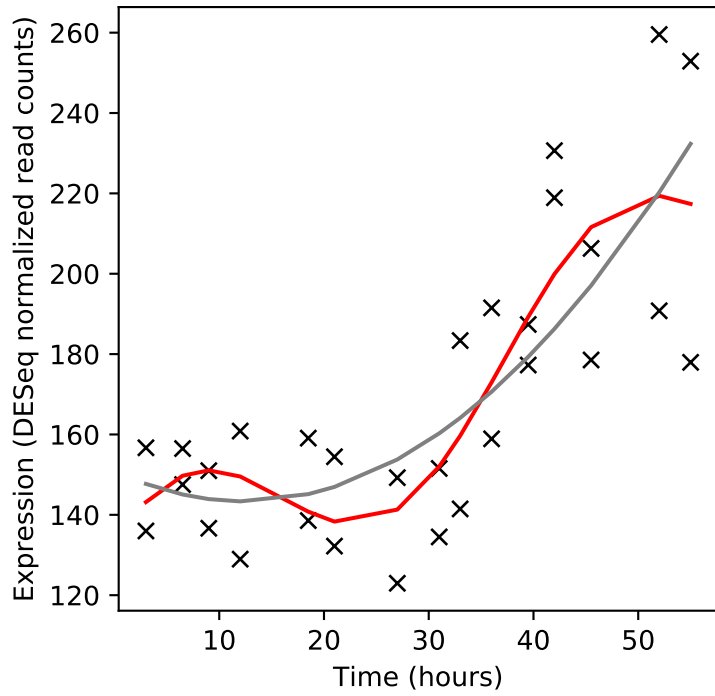
Rv0221/-



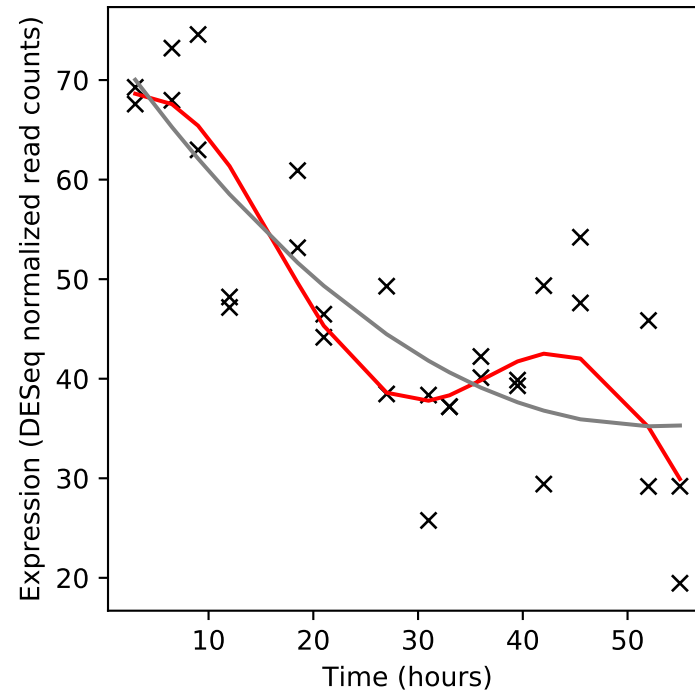
Rv0222/echA1



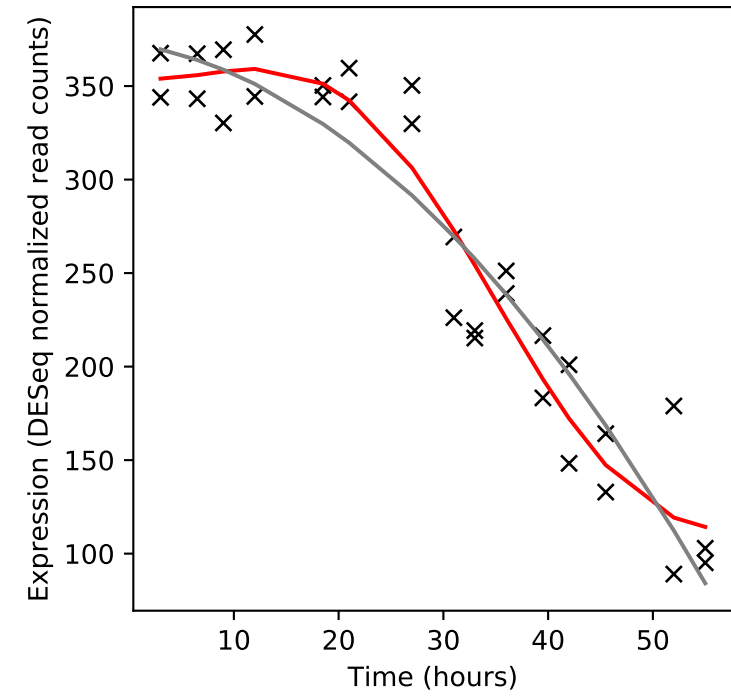
Rv0223c/-



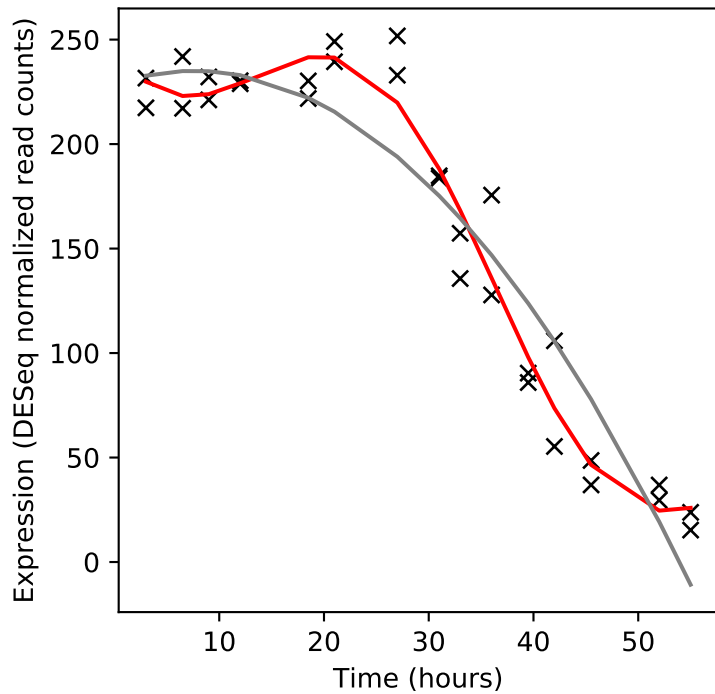
Rv0224c/-



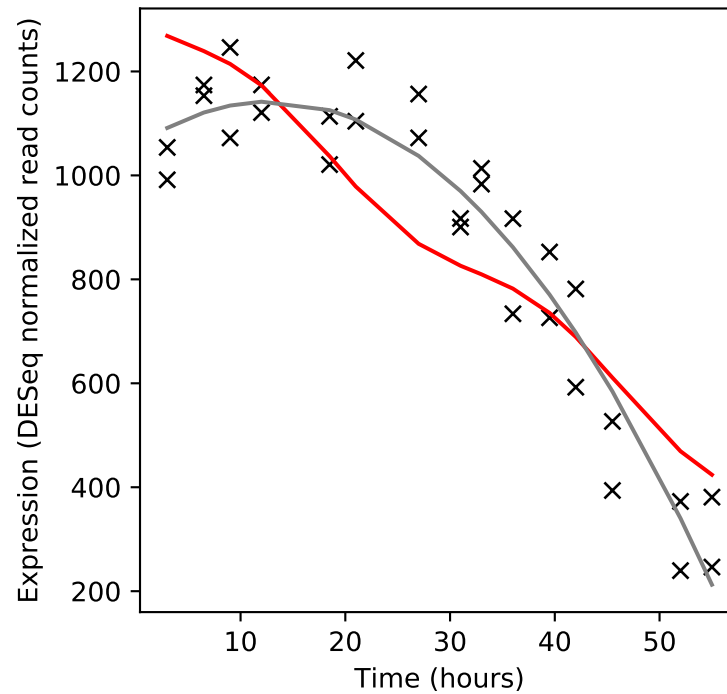
Rv0225/-



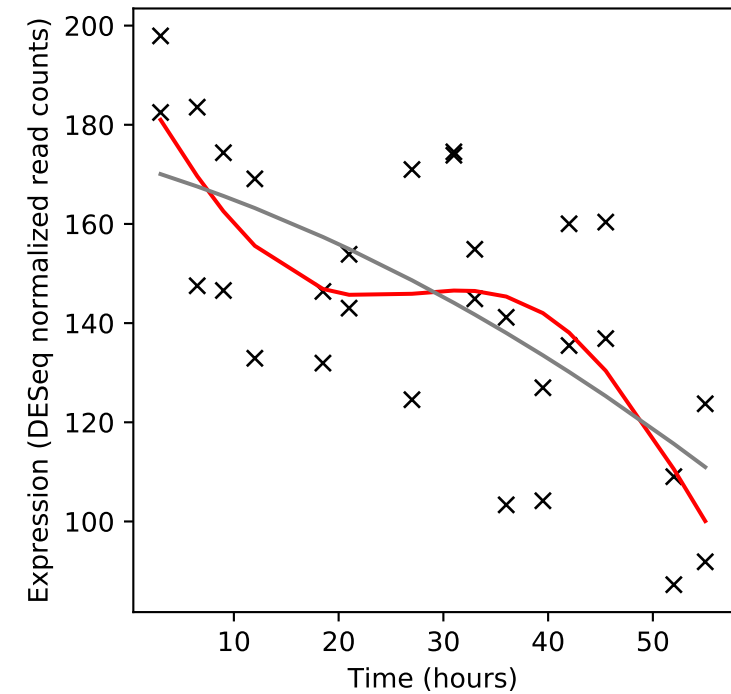
Rv0226c/-



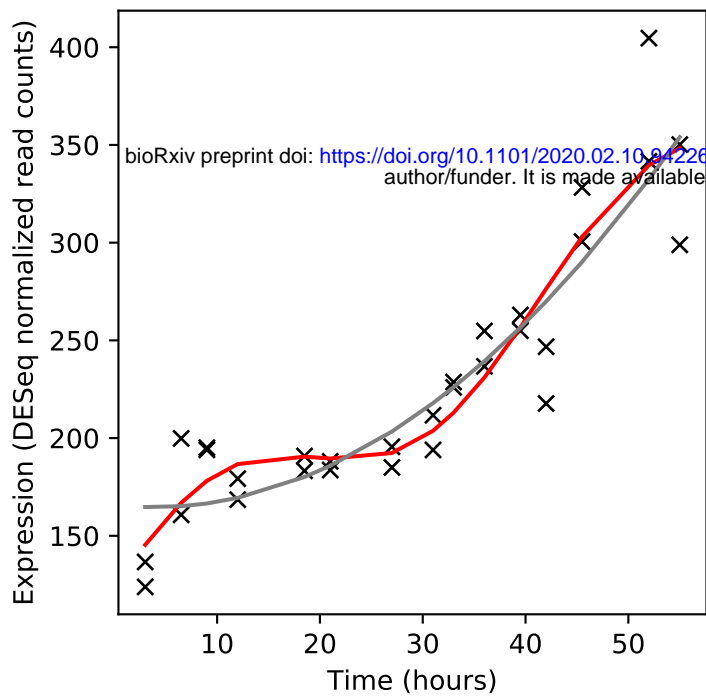
Rv0227c/-



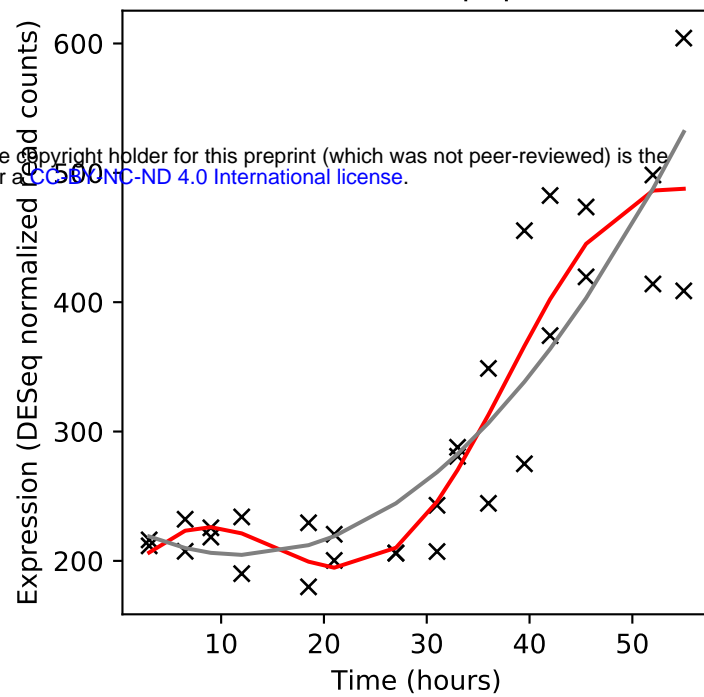
Rv0228/-



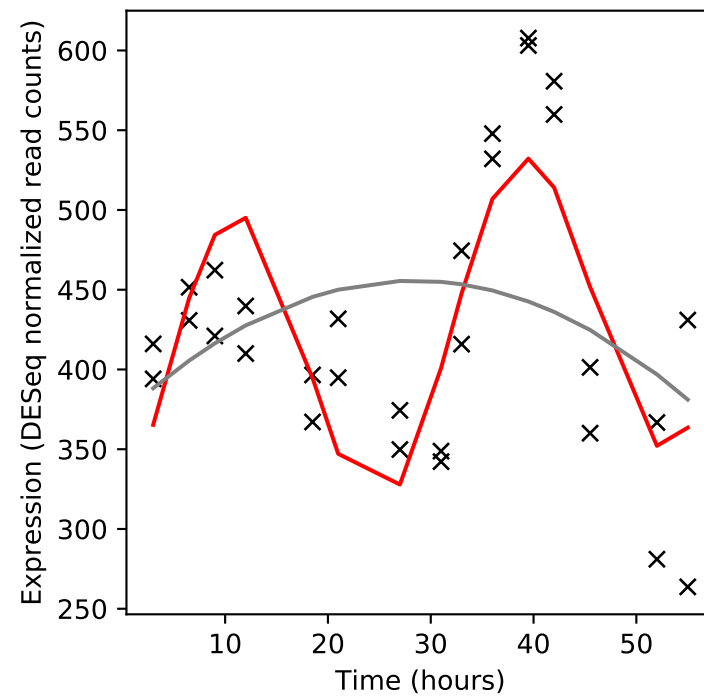
Rv0229c/-



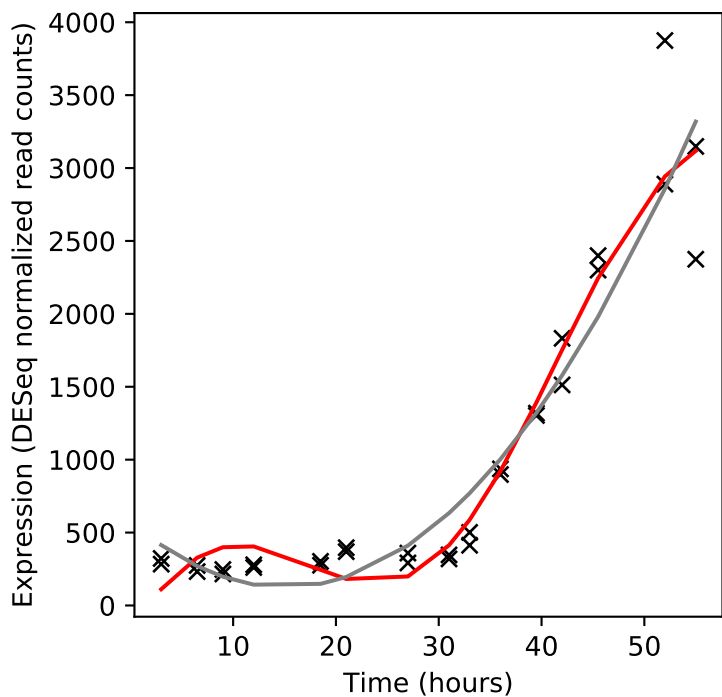
Rv0230c/php



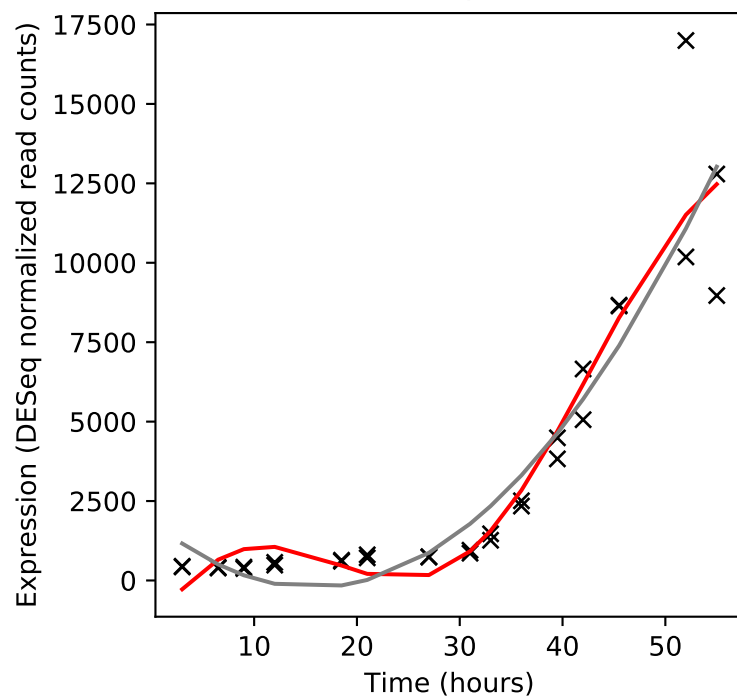
Rv0231/fadE4



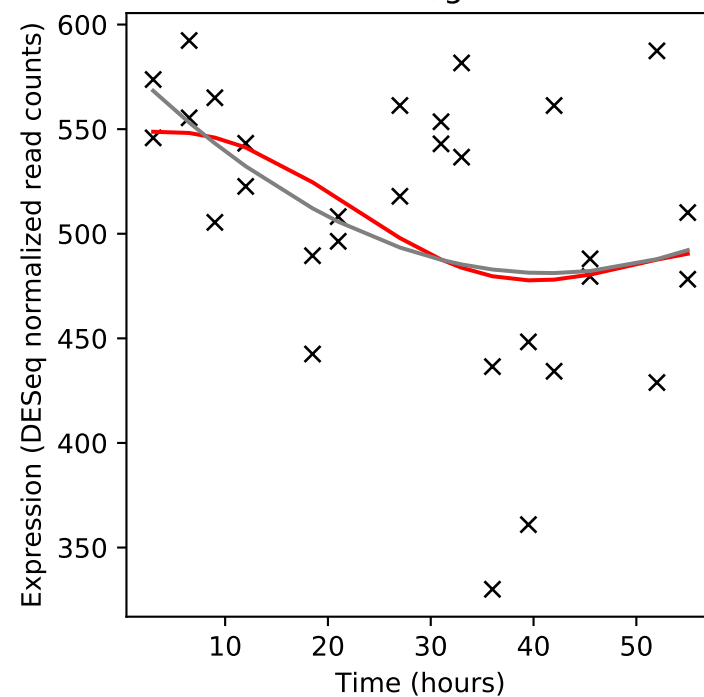
Rv0232/-



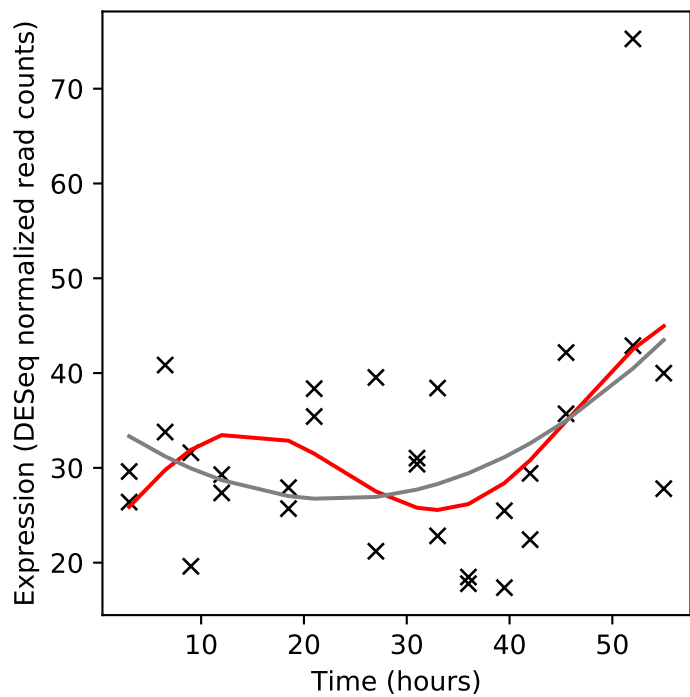
Rv0233/nrdB



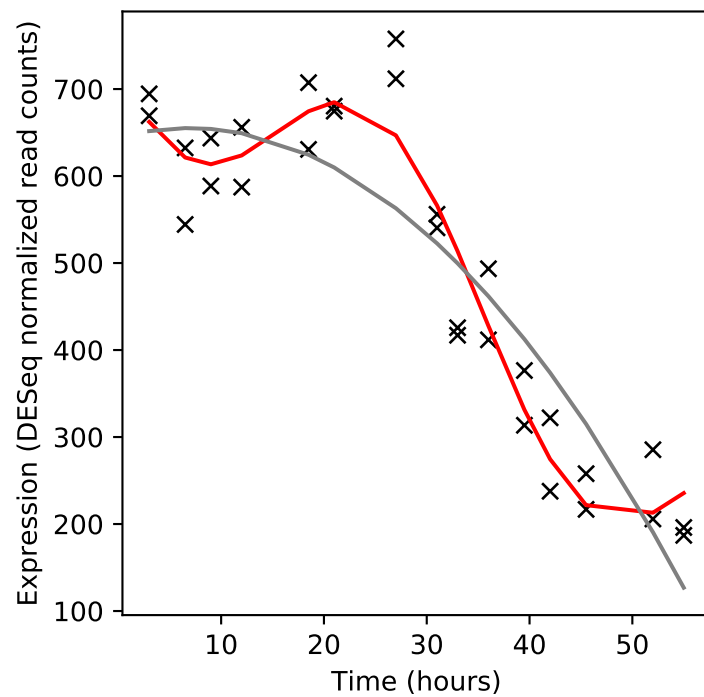
Rv0234c/gabD1



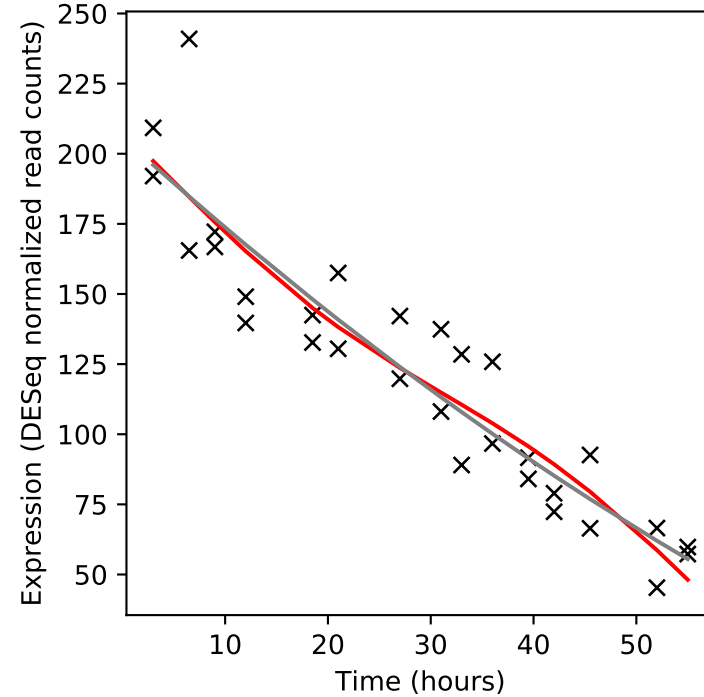
Rv0235c/-



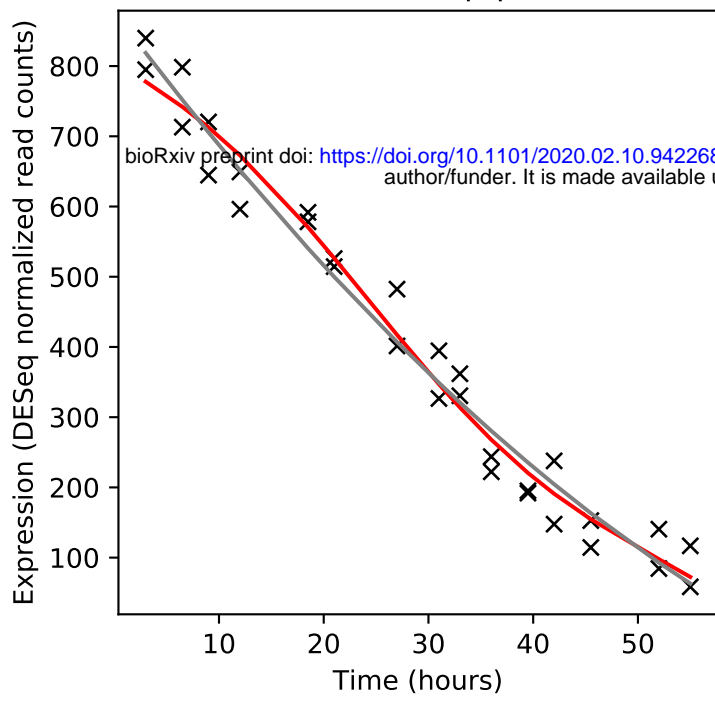
Rv0236c/aftD



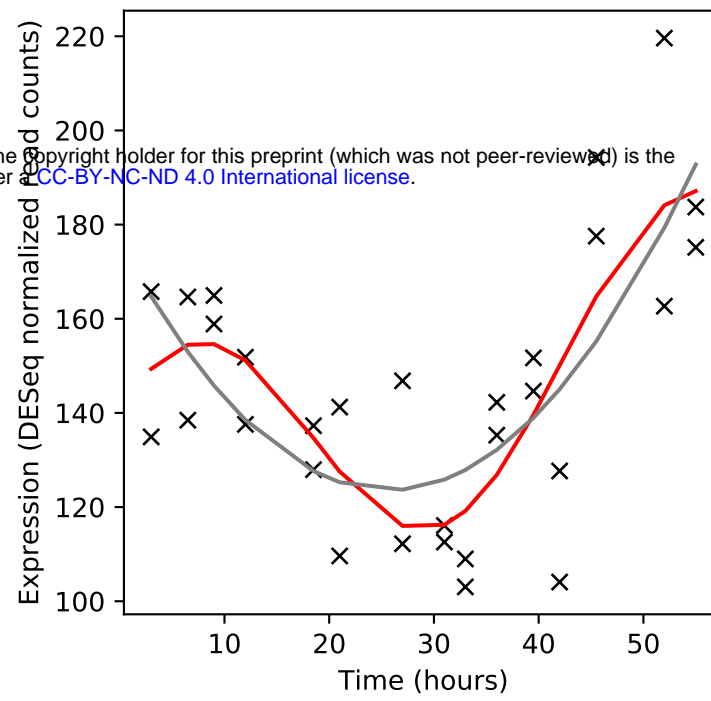
Rv0236A/-



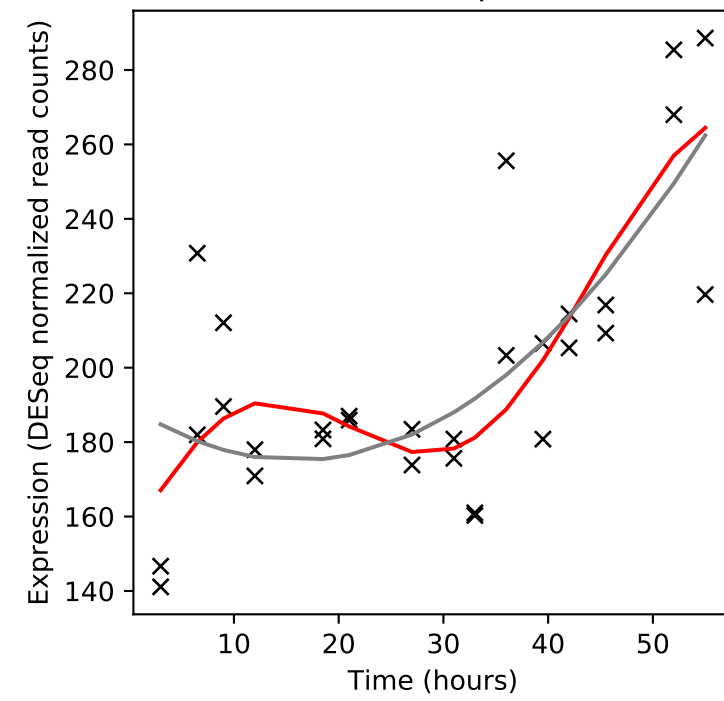
Rv0237/lpqI



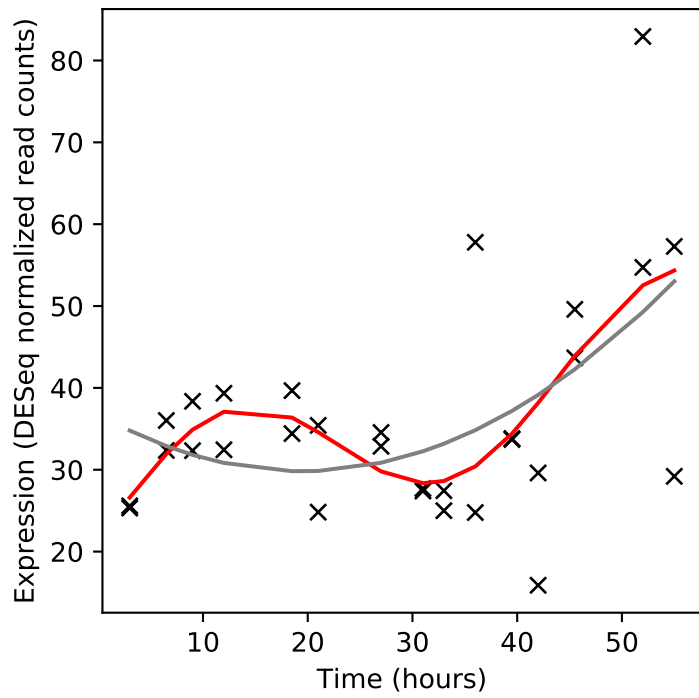
Rv0238/-



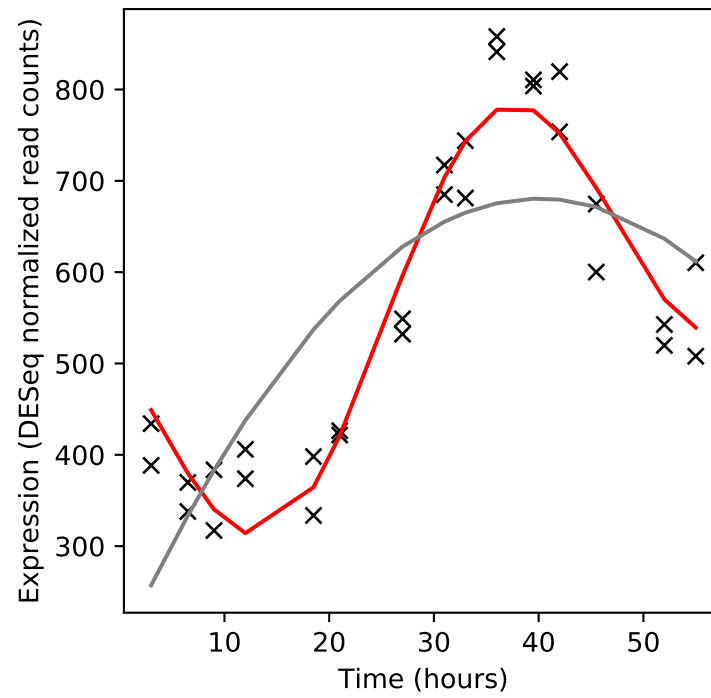
Rv0239/vapB24



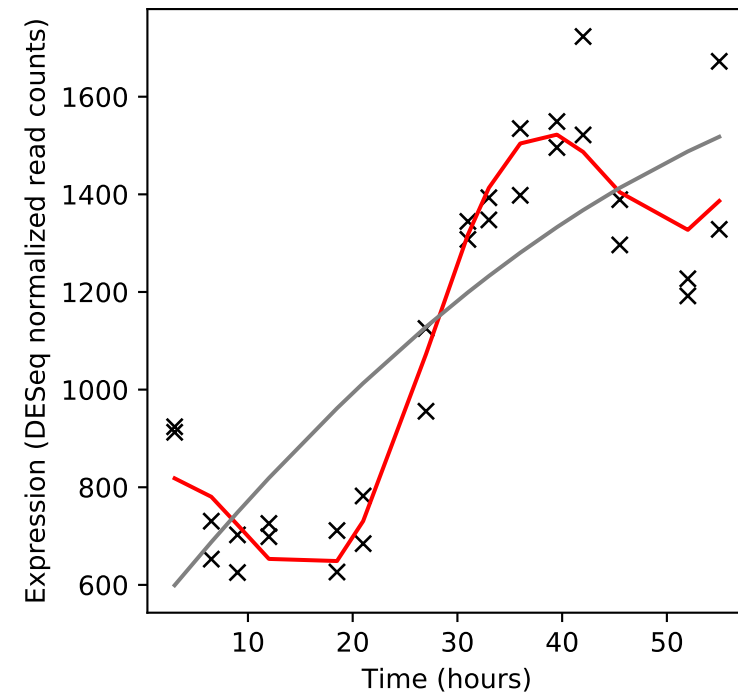
Rv0240/vapC24



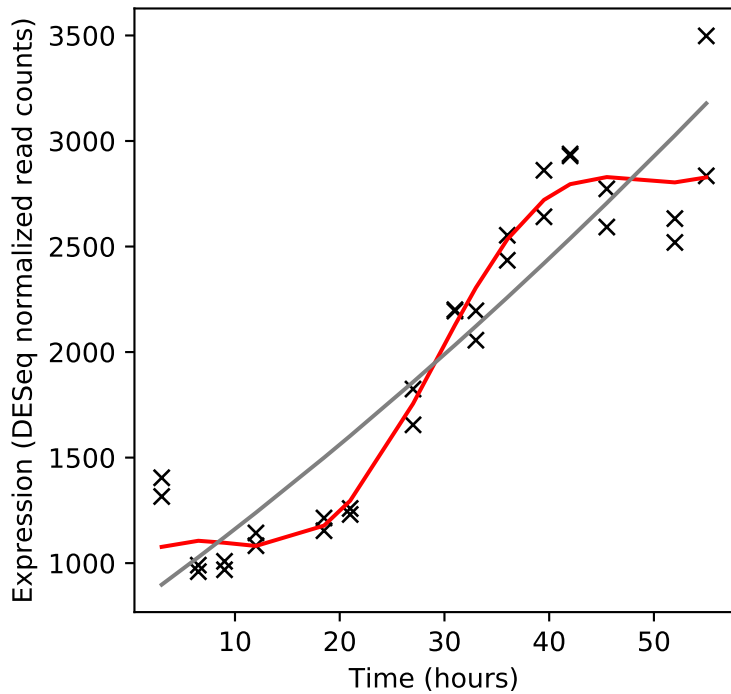
Rv0241c/htdX



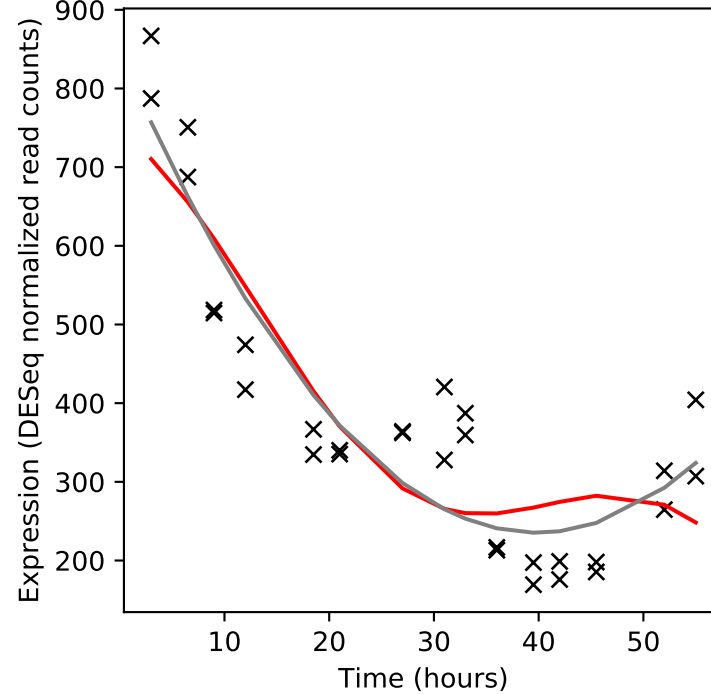
Rv0242c/fabG4



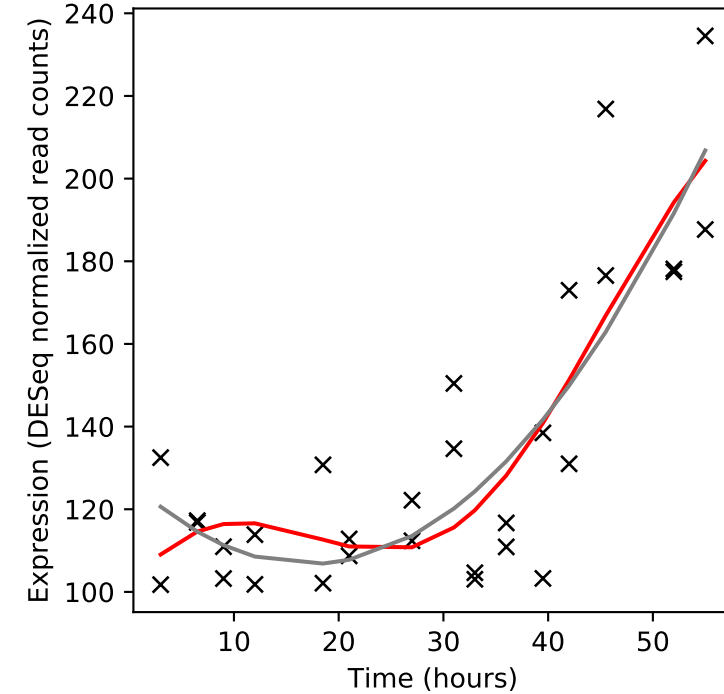
Rv0243/fadA2



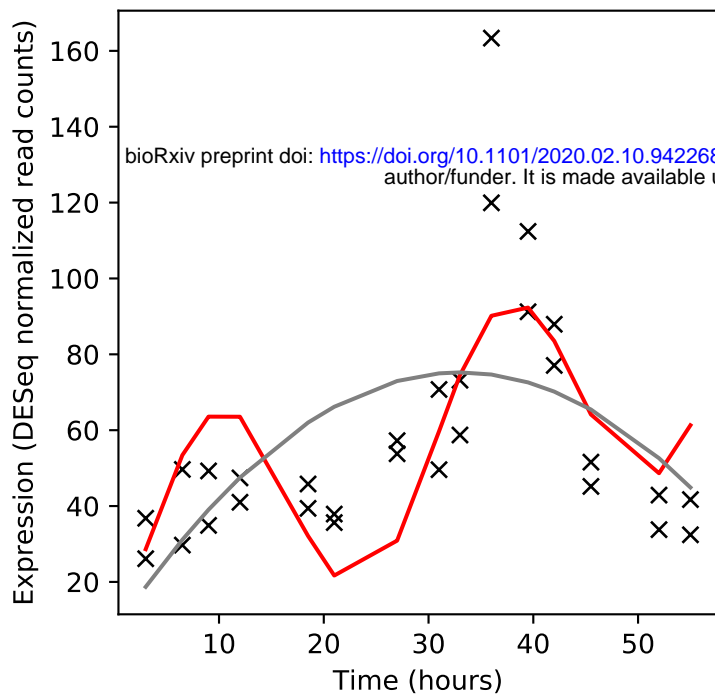
Rv0244c/fadE5



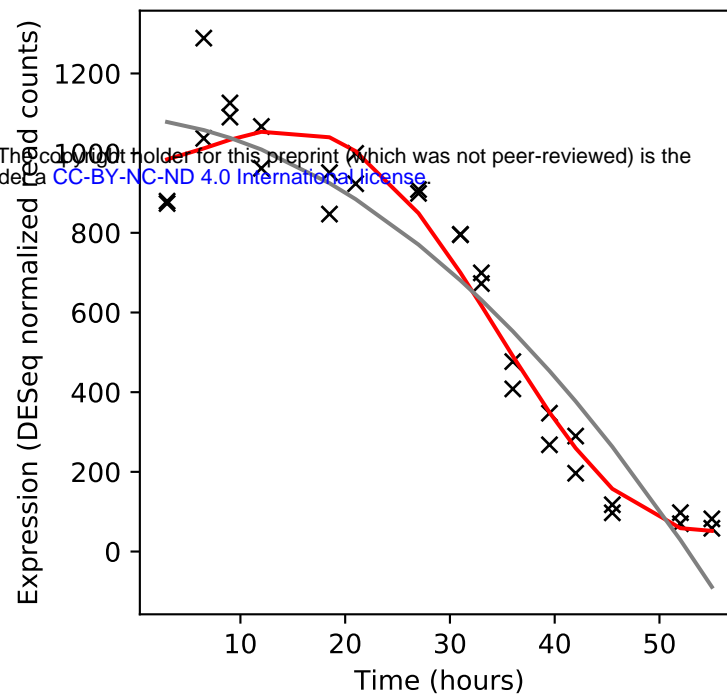
Rv0245/-



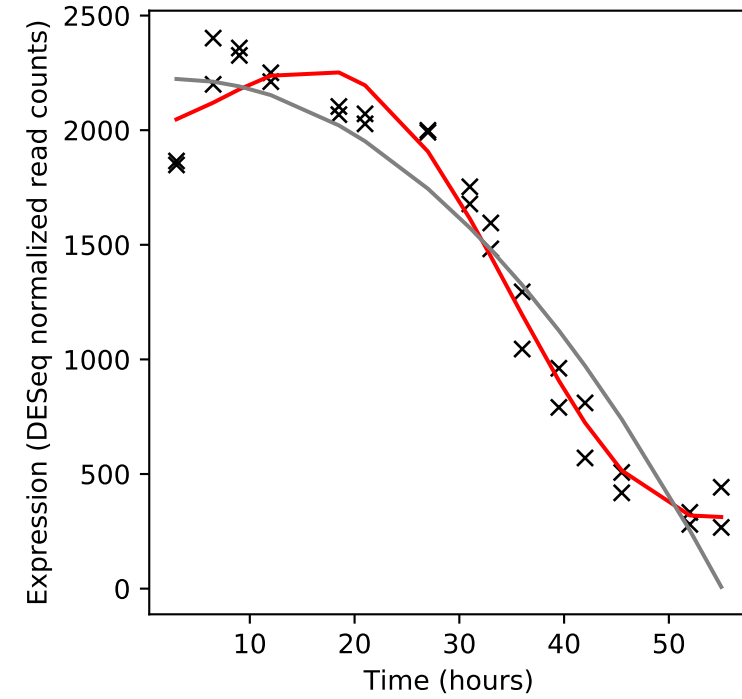
Rv0246/-



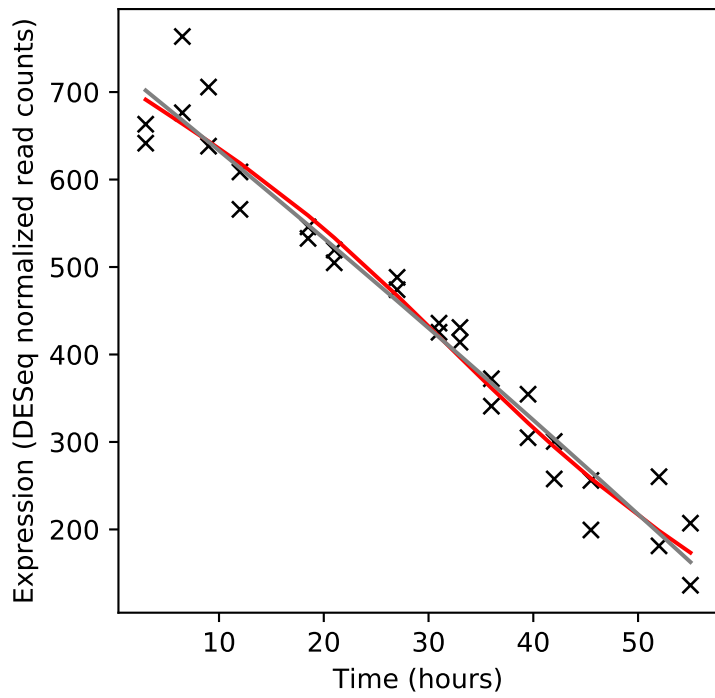
Rv0247c/-



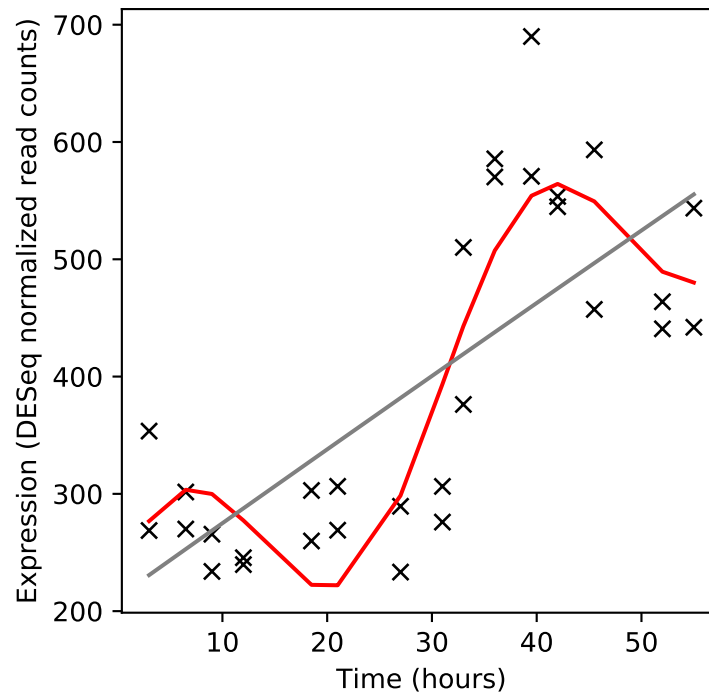
Rv0248c/-



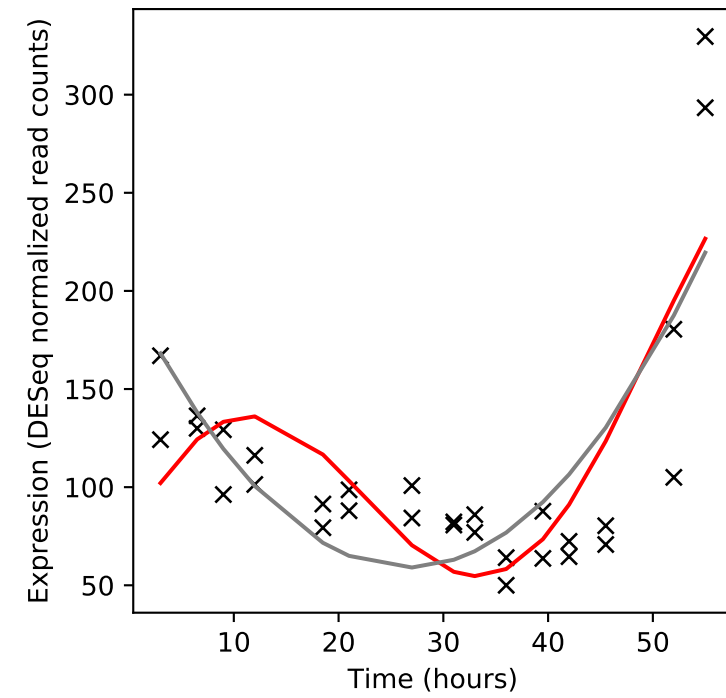
Rv0249c/-



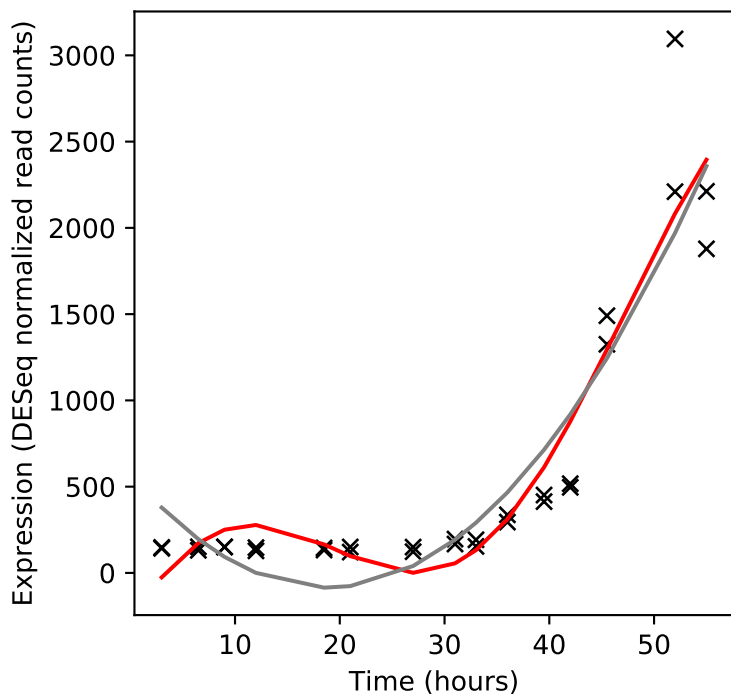
Rv0250c/-



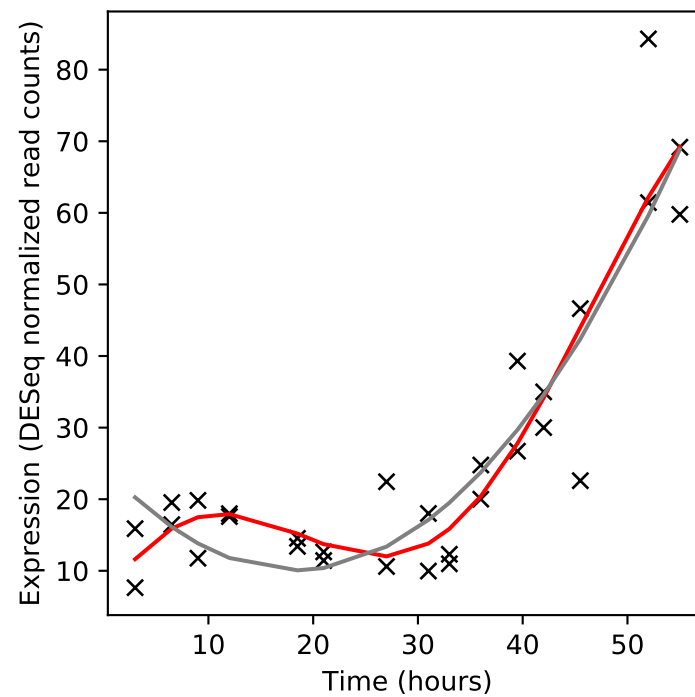
Rv0251c/hsp



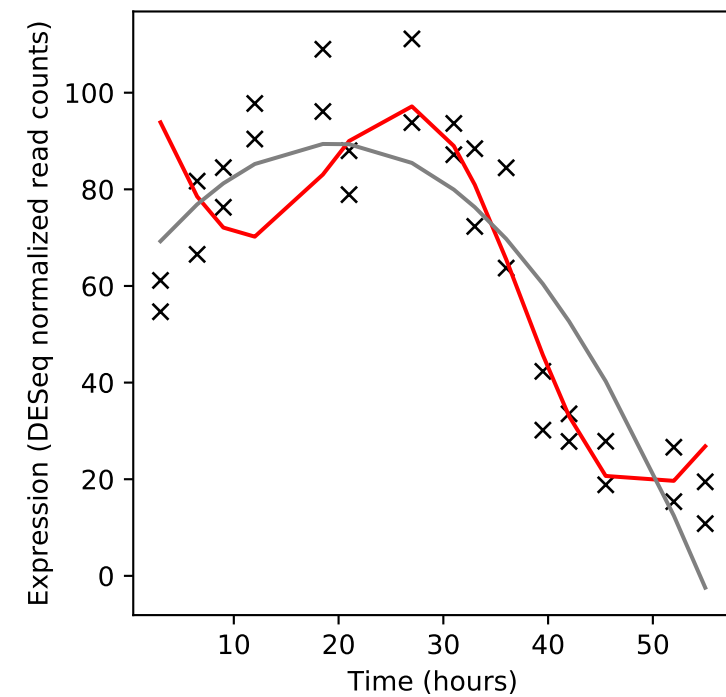
Rv0252/nirB



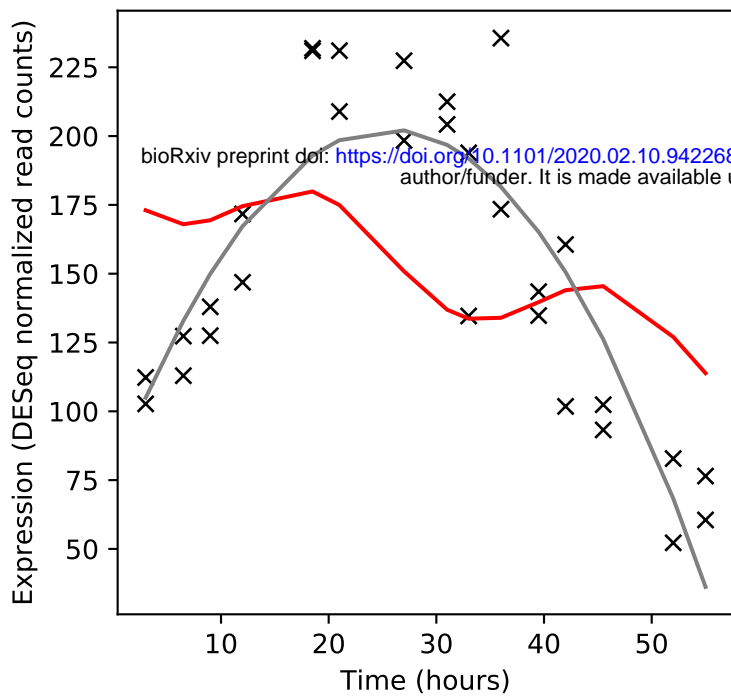
Rv0253/nirD



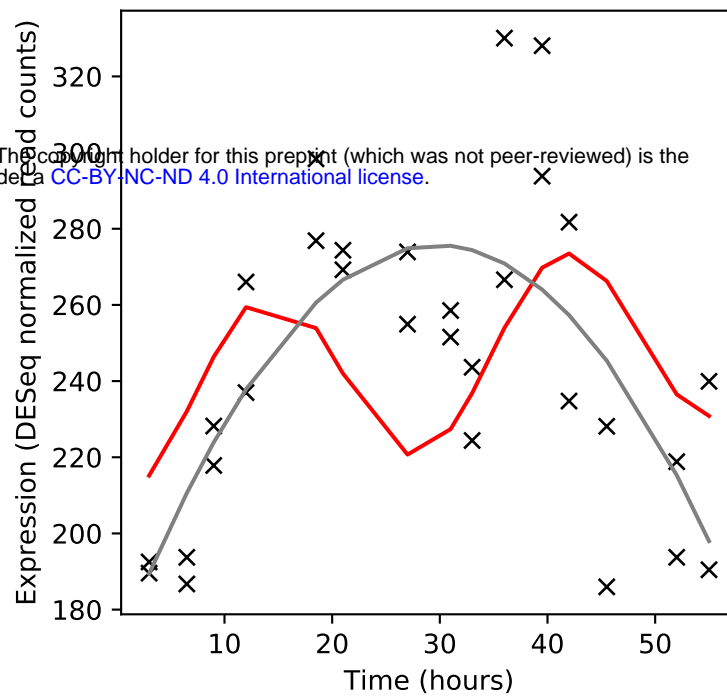
Rv0254c/cobU



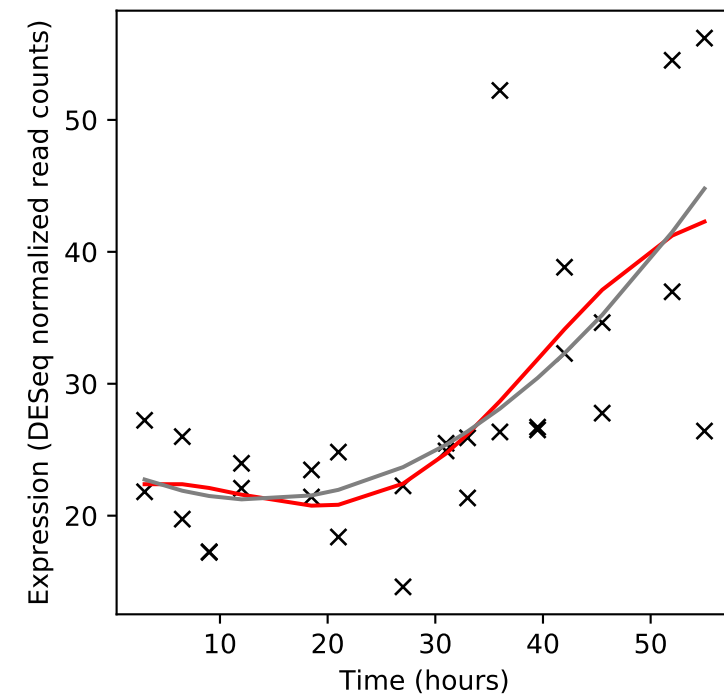
Rv0255c/cobQ1



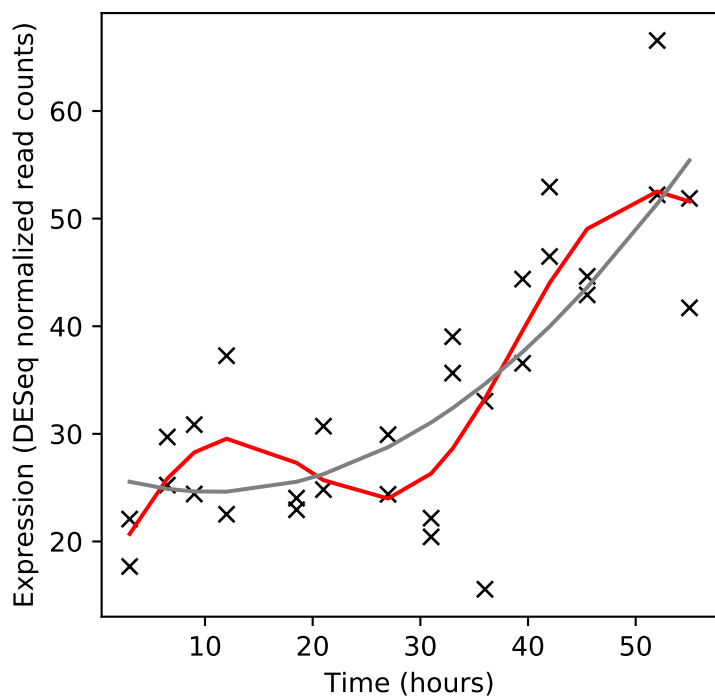
Rv0256c/PPE2



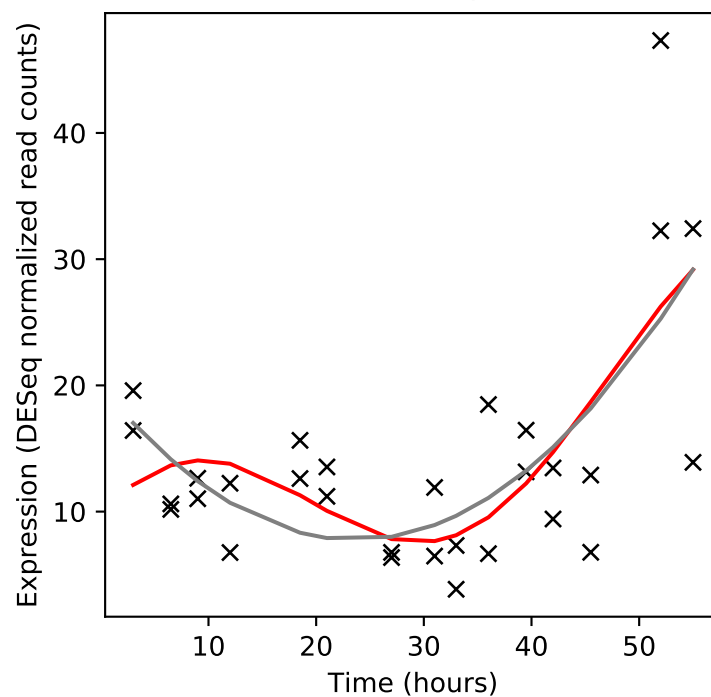
Rv0257/-



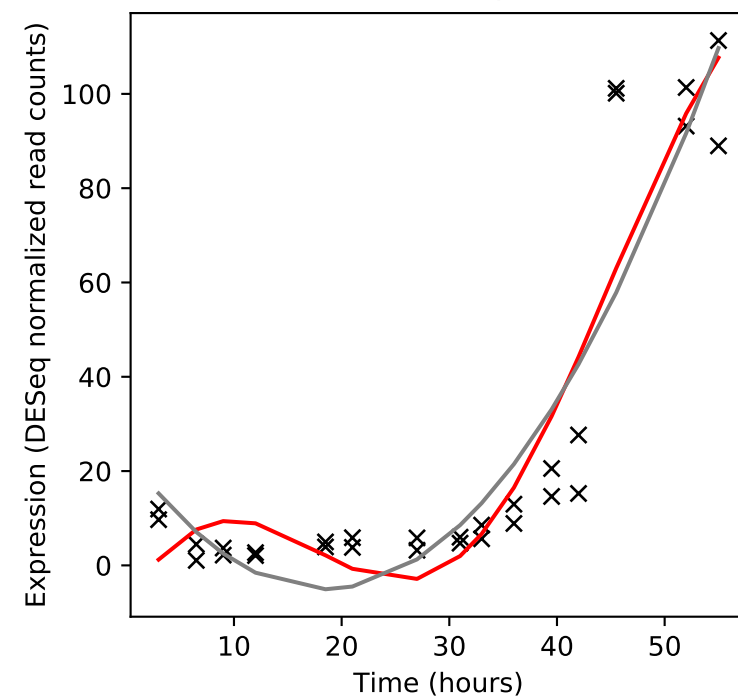
Rv0258c/-



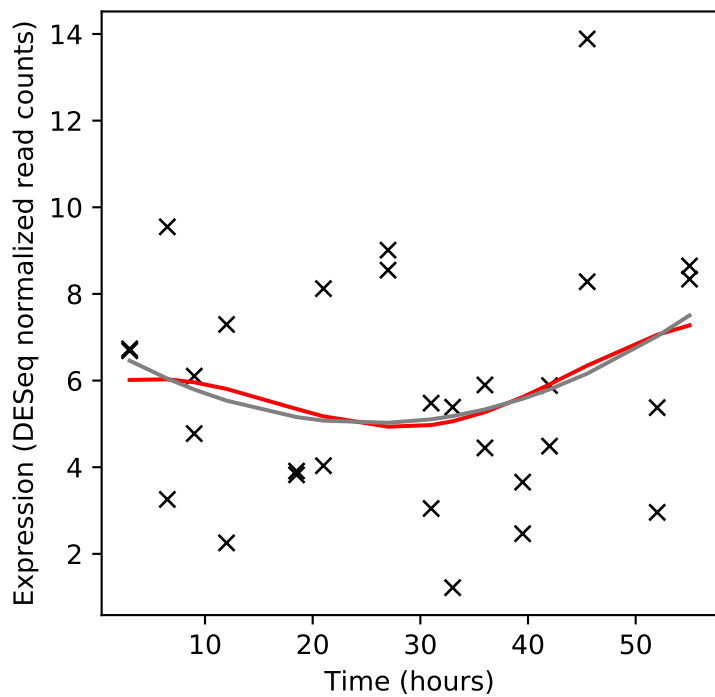
Rv0259c/-



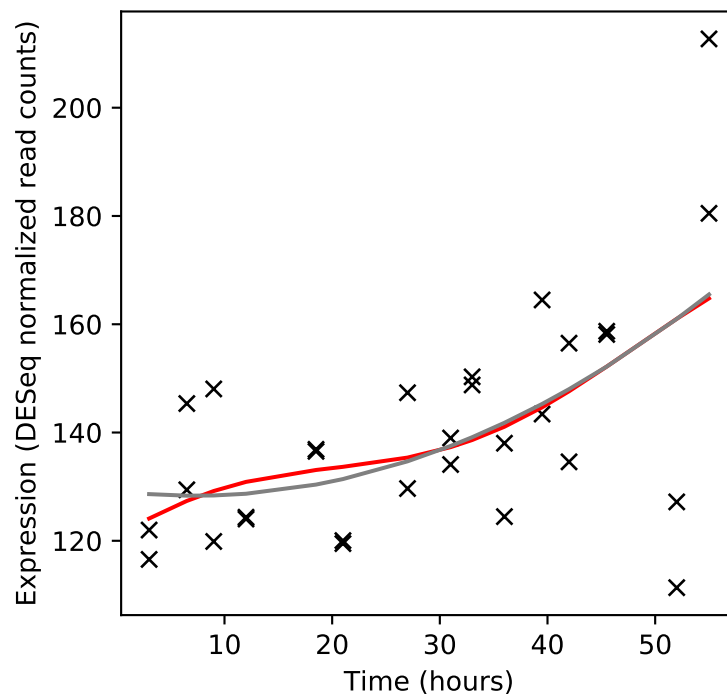
Rv0260c/-



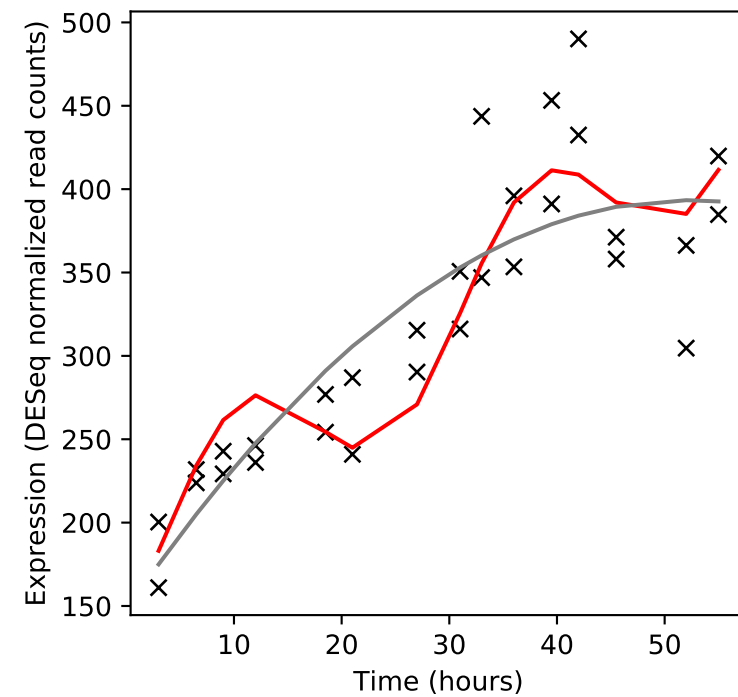
Rv0261c/narK3



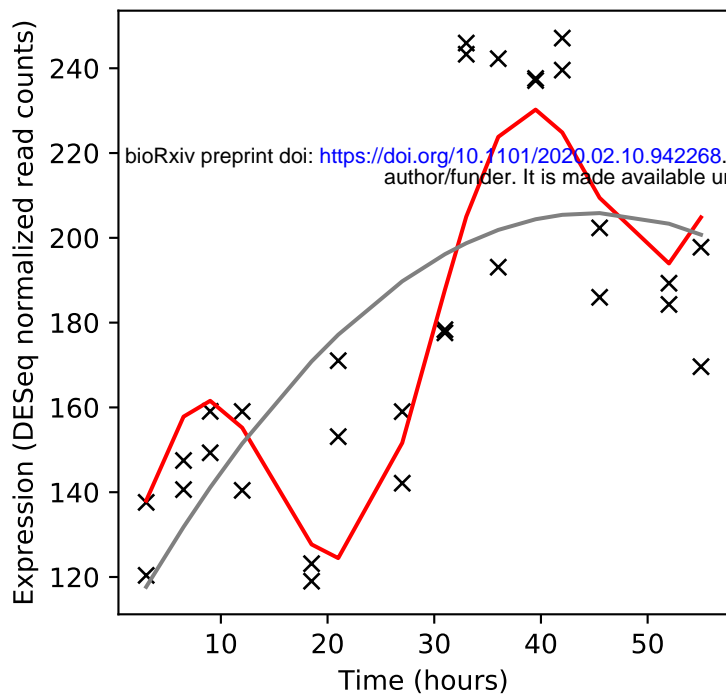
Rv0262c/aac



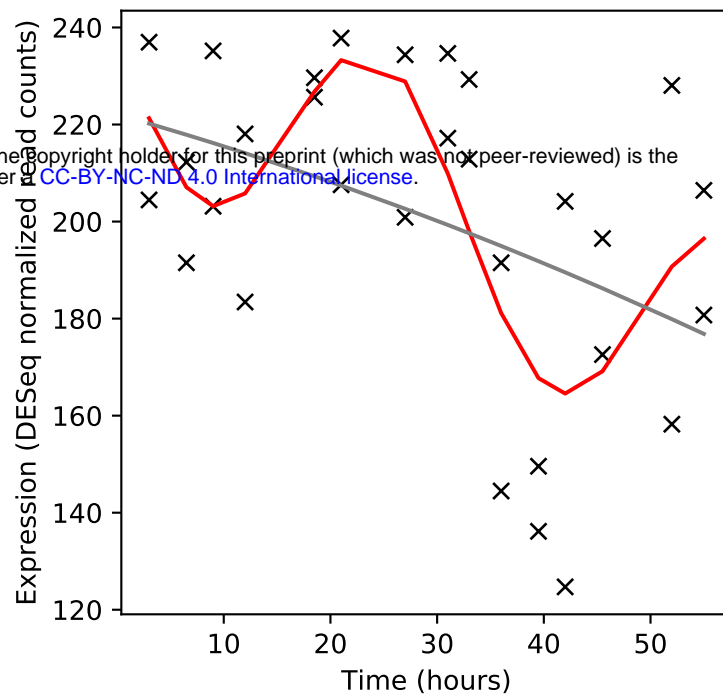
Rv0263c/-



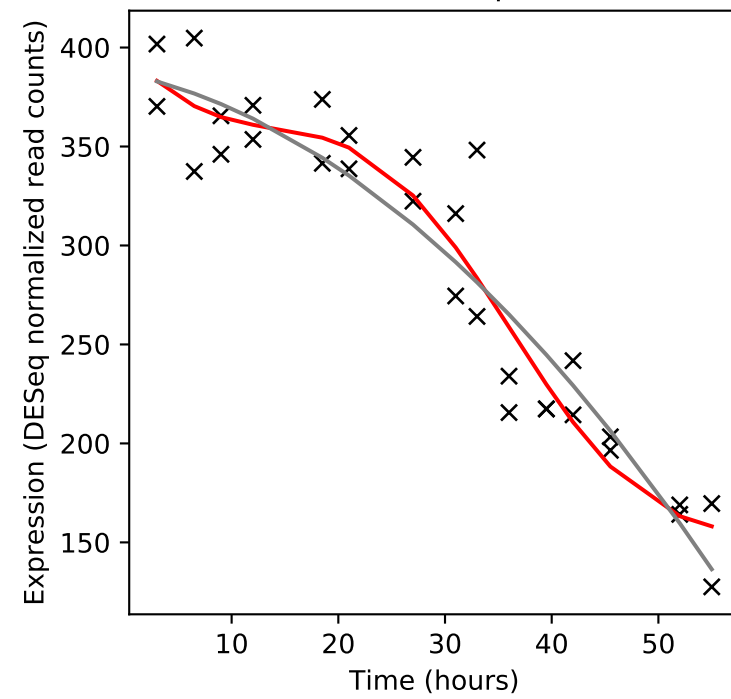
Rv0264c/-



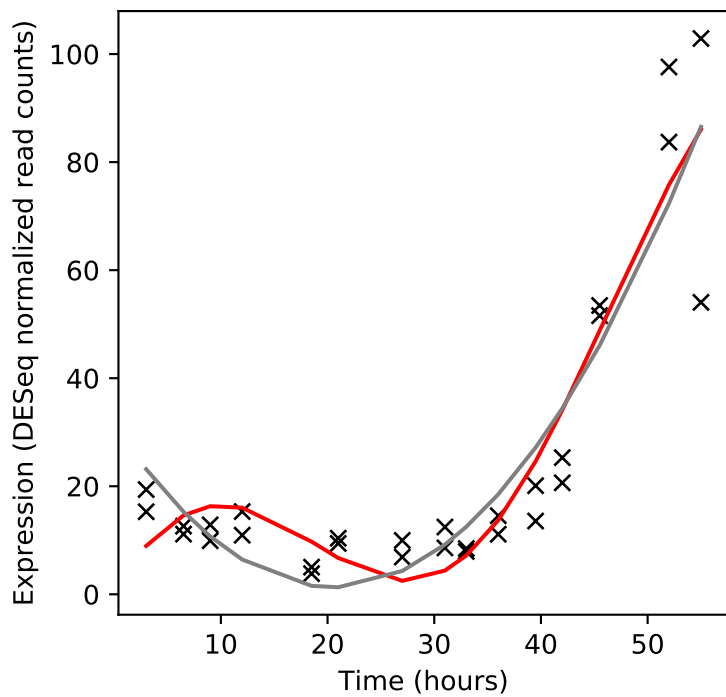
Rv0265c/-



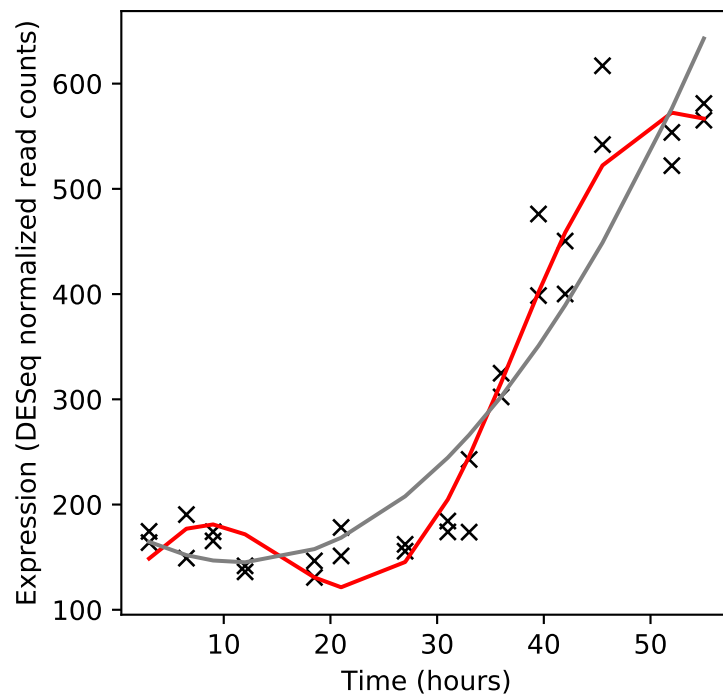
Rv0266c/oplA



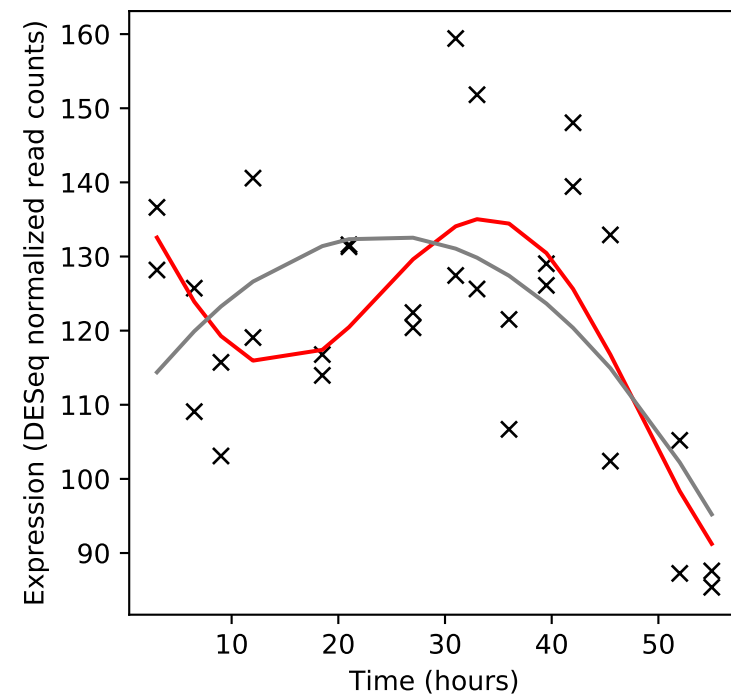
Rv0267/narU



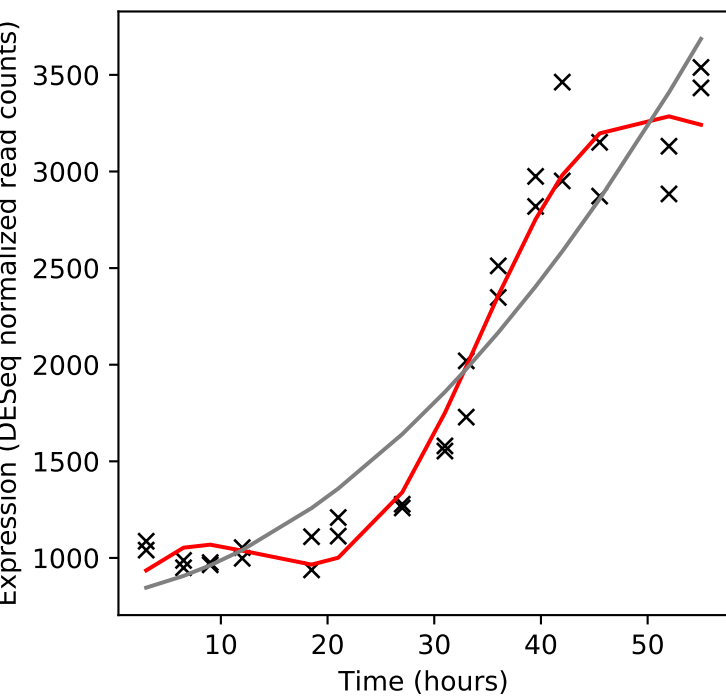
Rv0268c/-



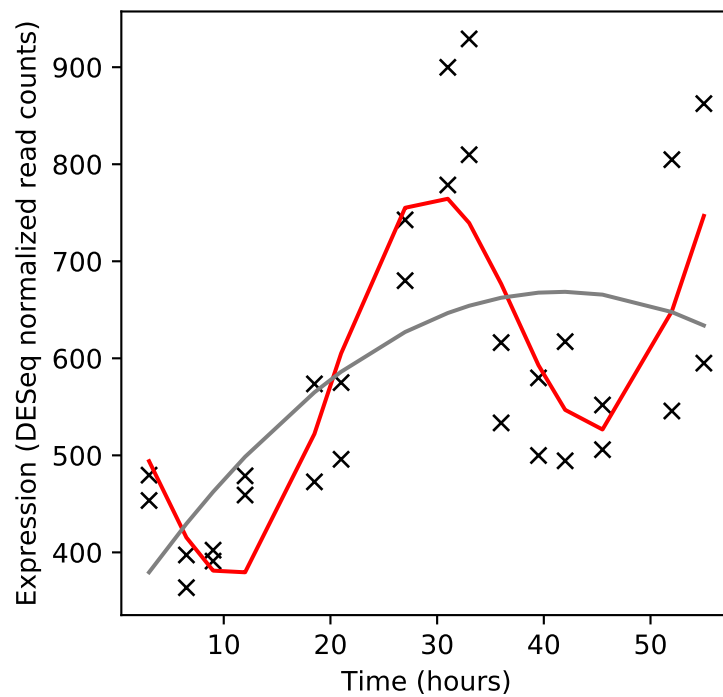
Rv0269c/-



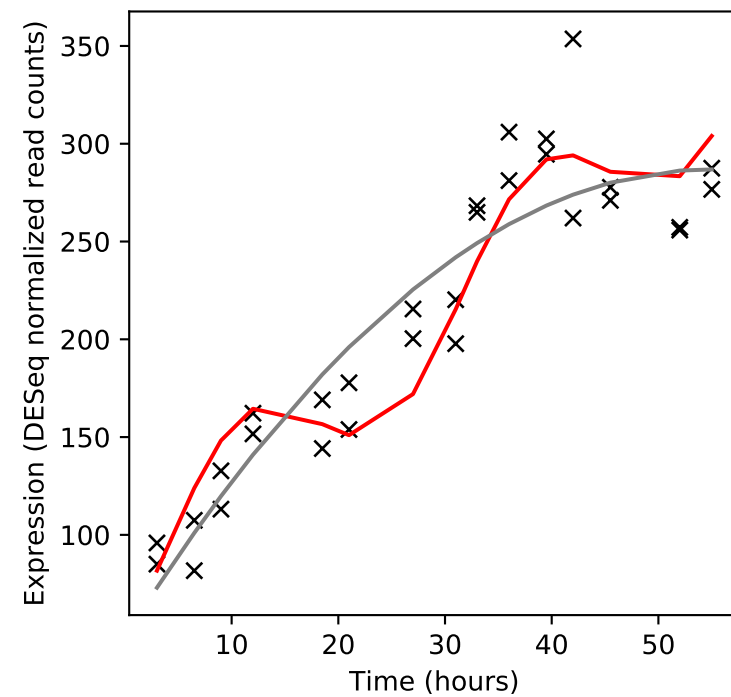
Rv0270/fadD2



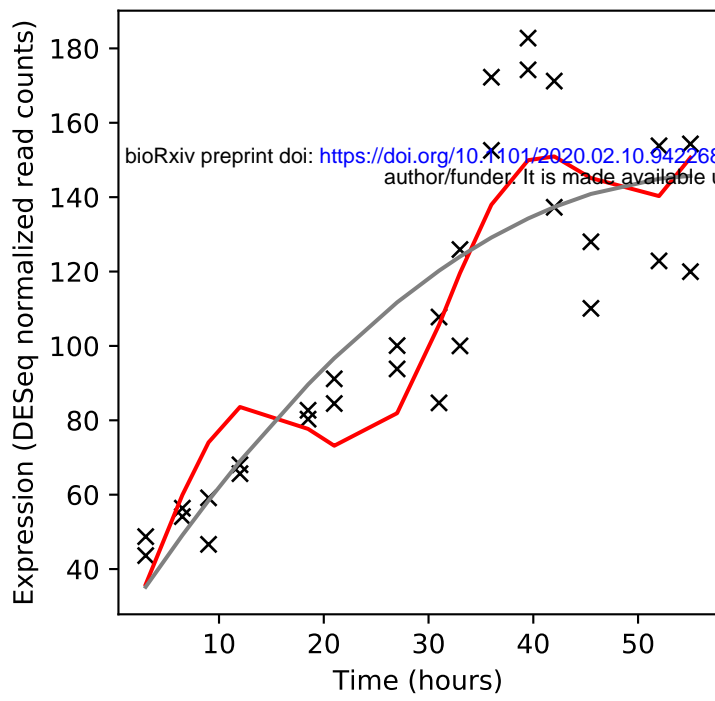
Rv0271c/fadE6



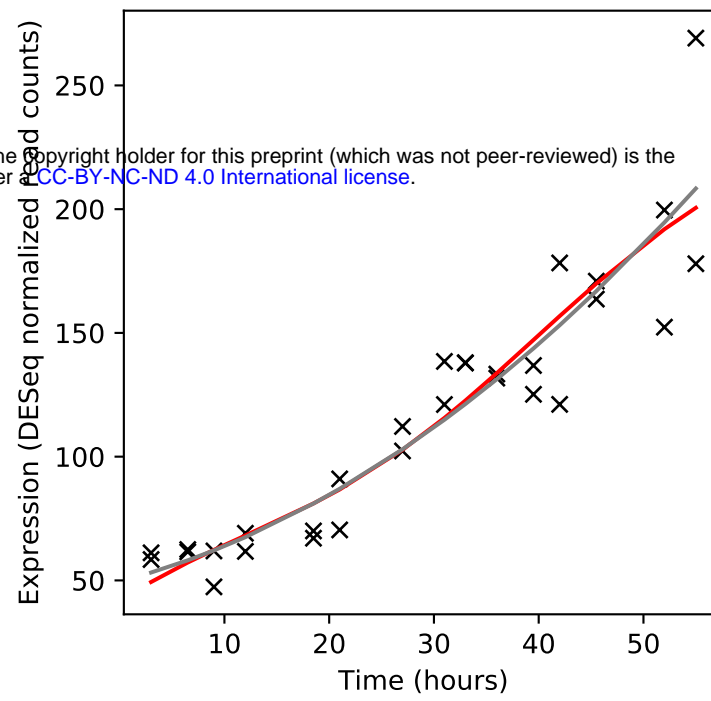
Rv0272c/-



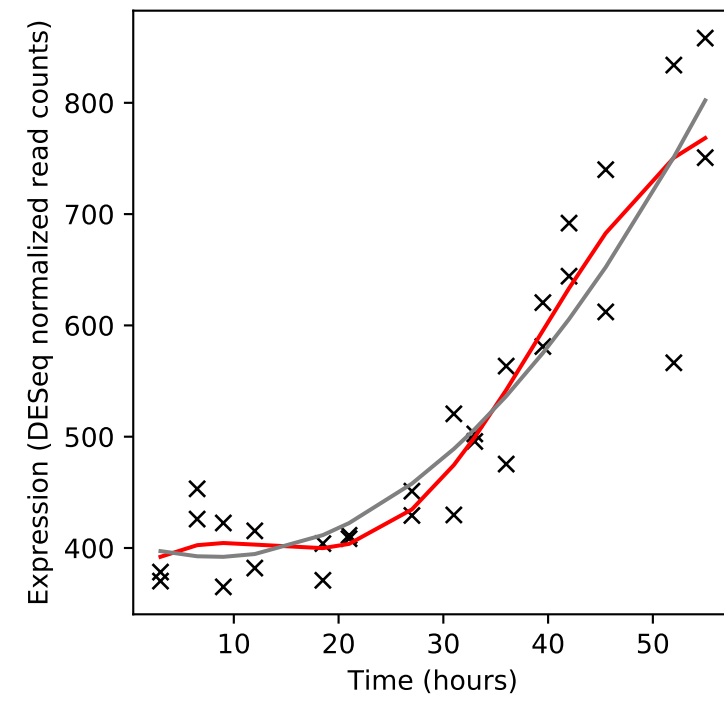
Rv0273c/-



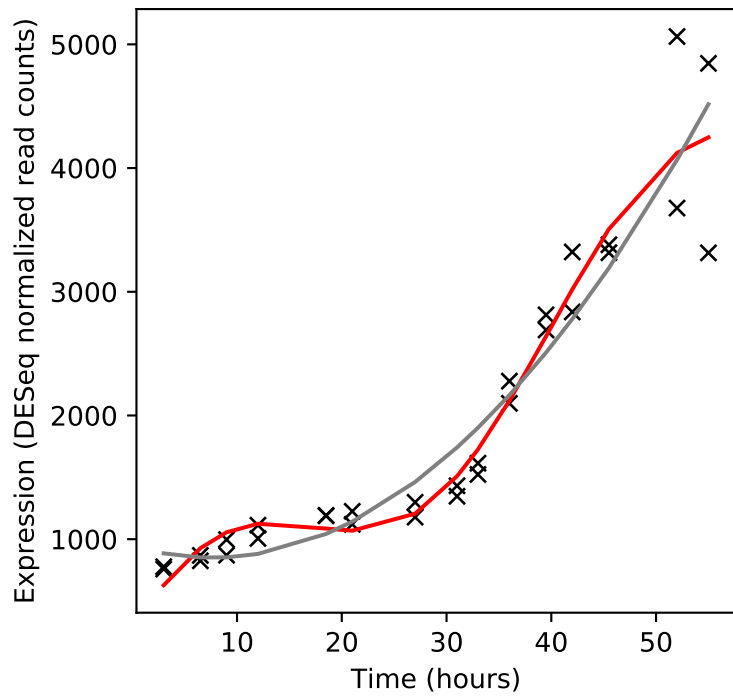
Rv0274/-



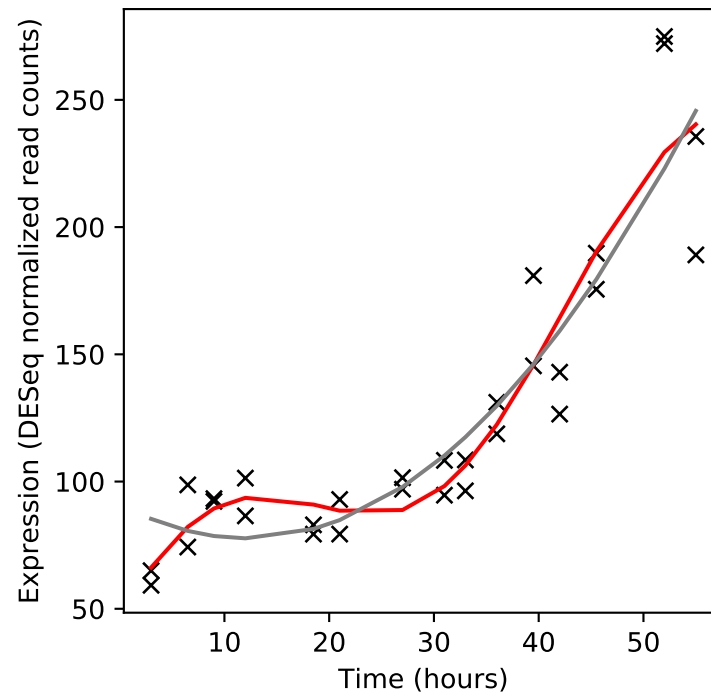
Rv0275c/-



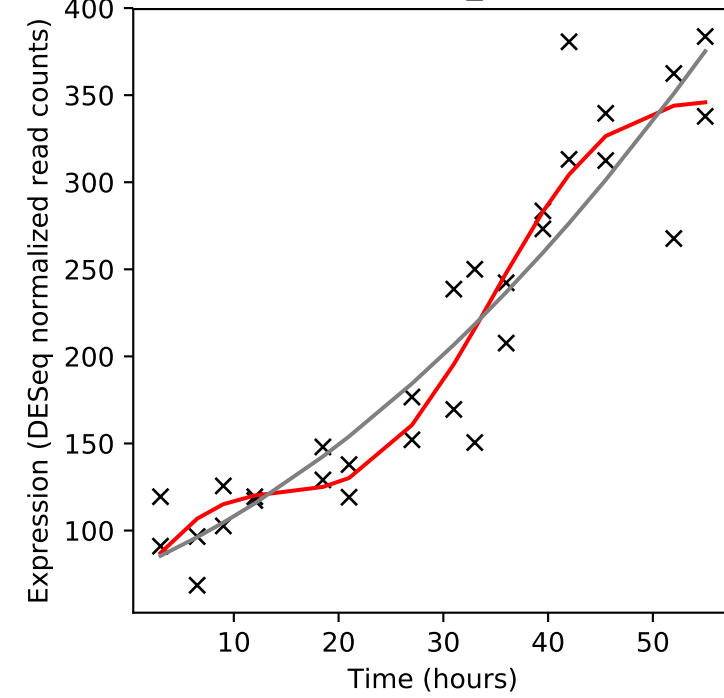
Rv0276/-



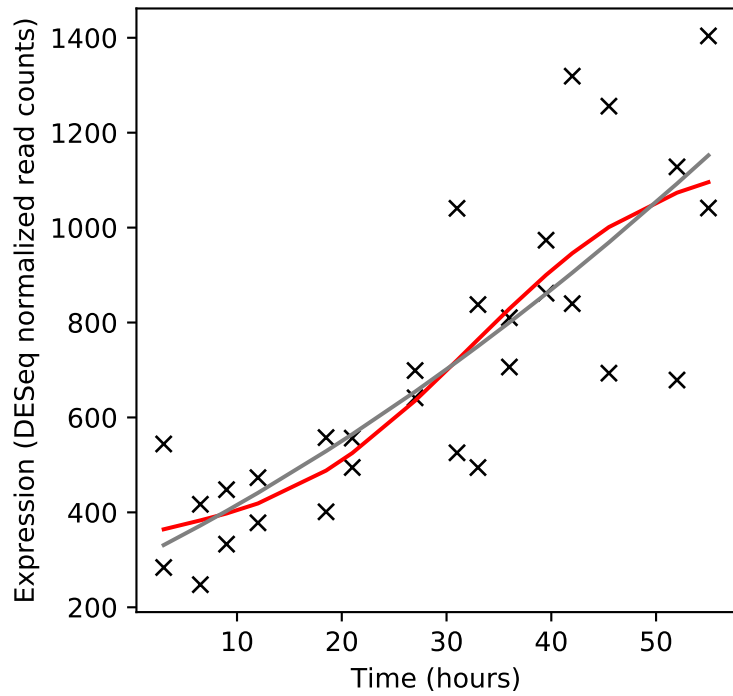
Rv0277c/vapC25



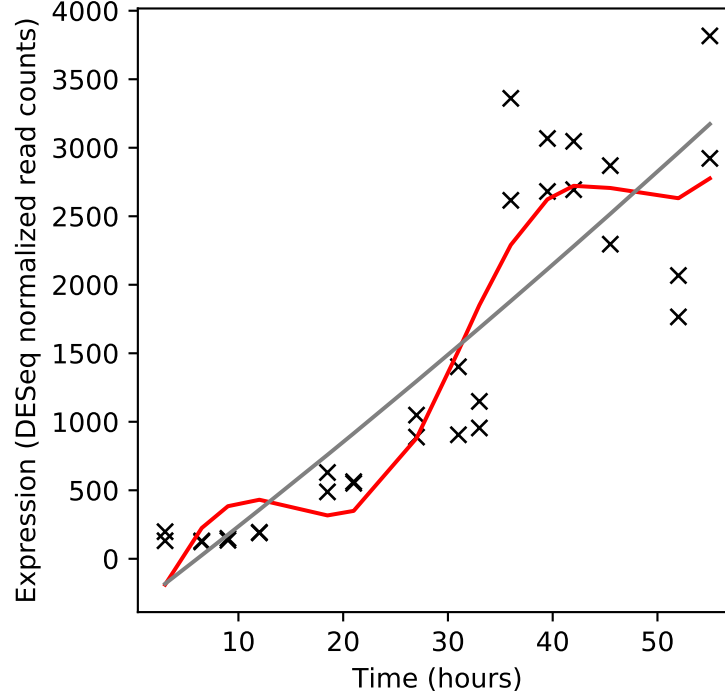
Rv0278c/PE_PGRS3



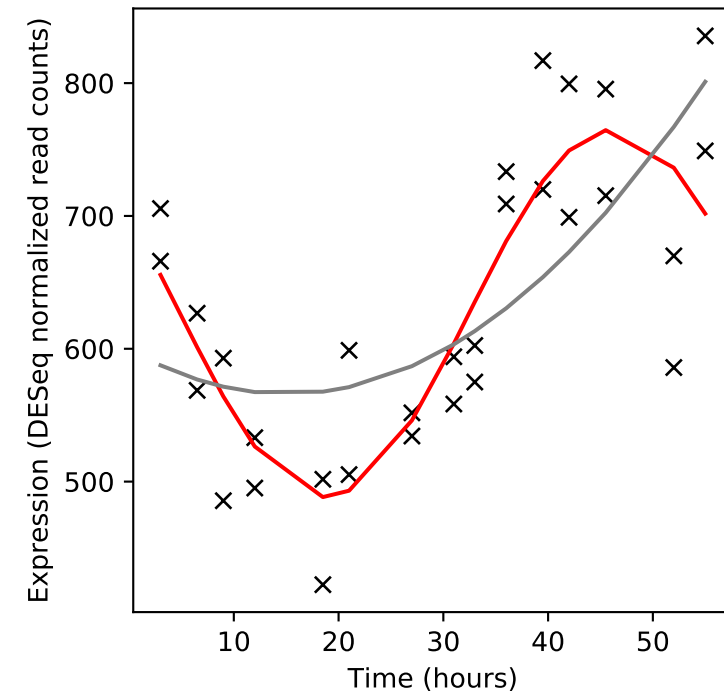
Rv0279c/PE_PGRS4



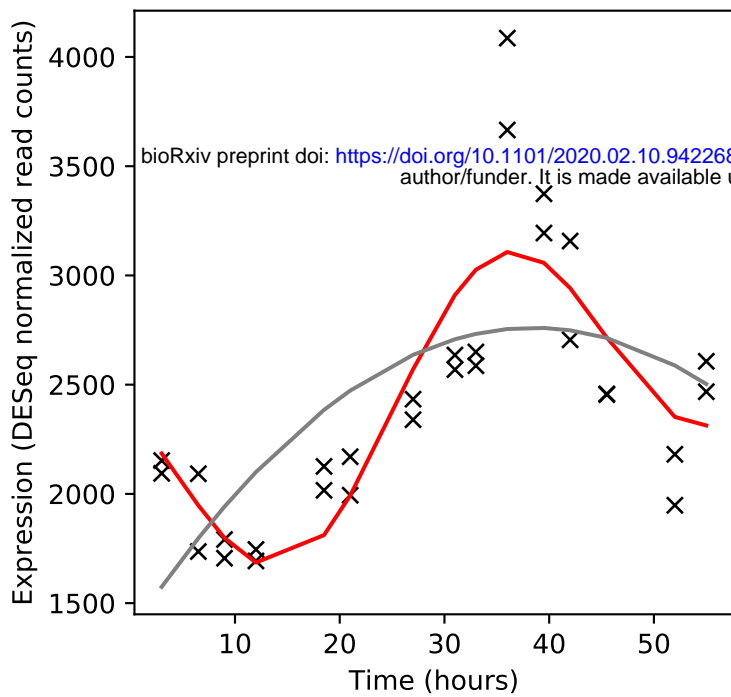
Rv0280/PPE3



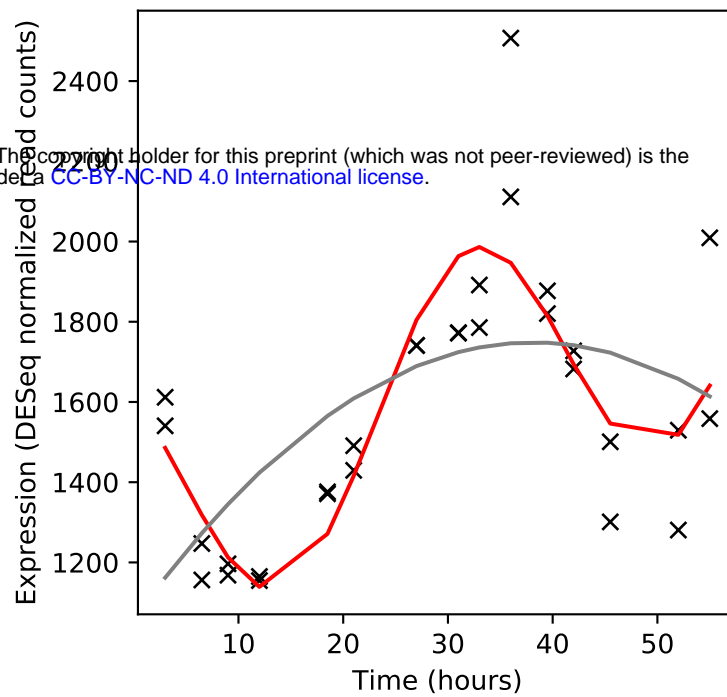
Rv0281/-



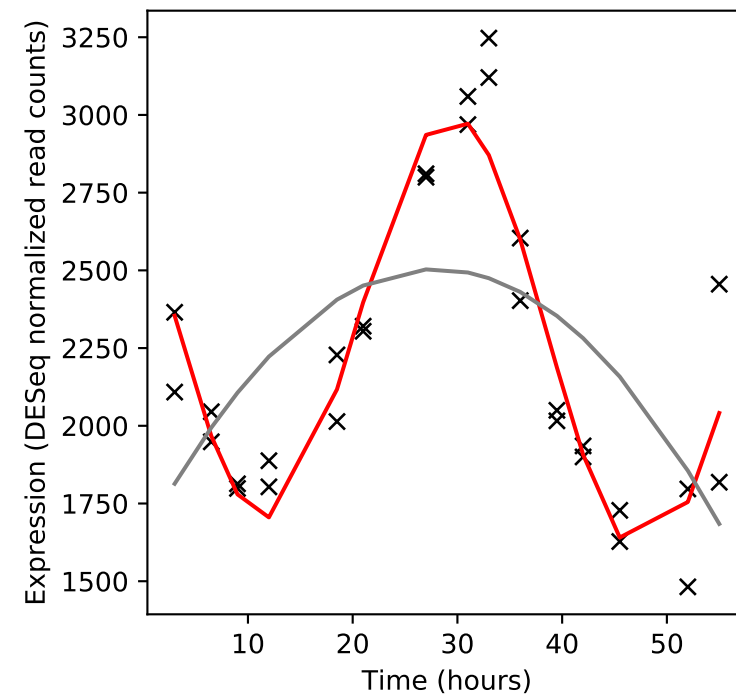
Rv0282/eccA3



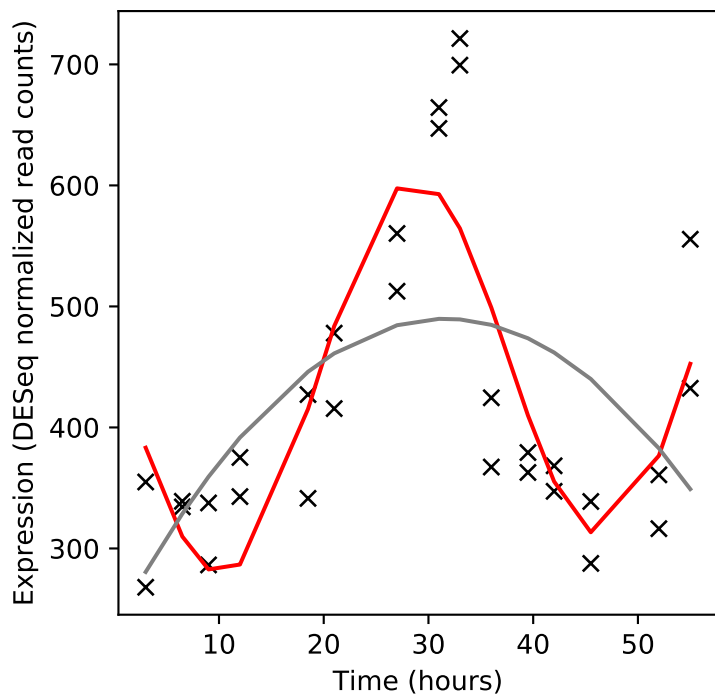
Rv0283/eccB3



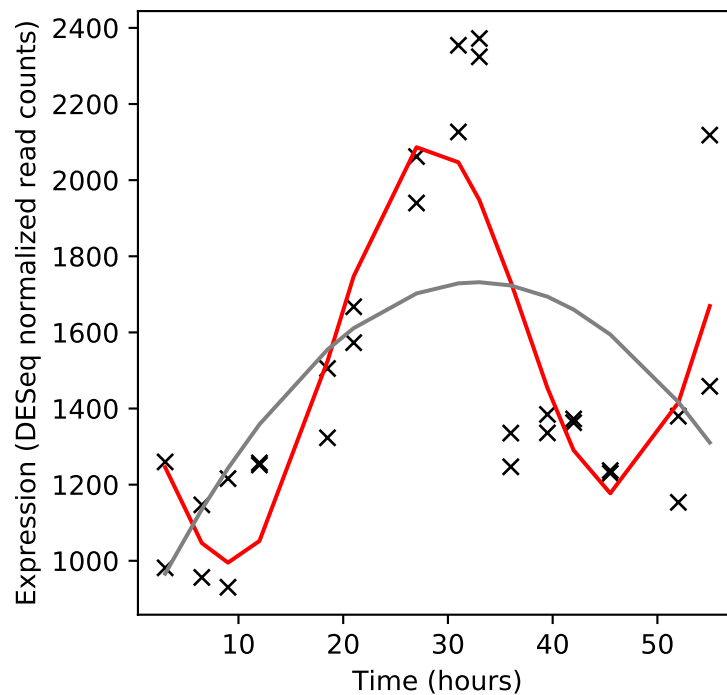
Rv0284/eccC3



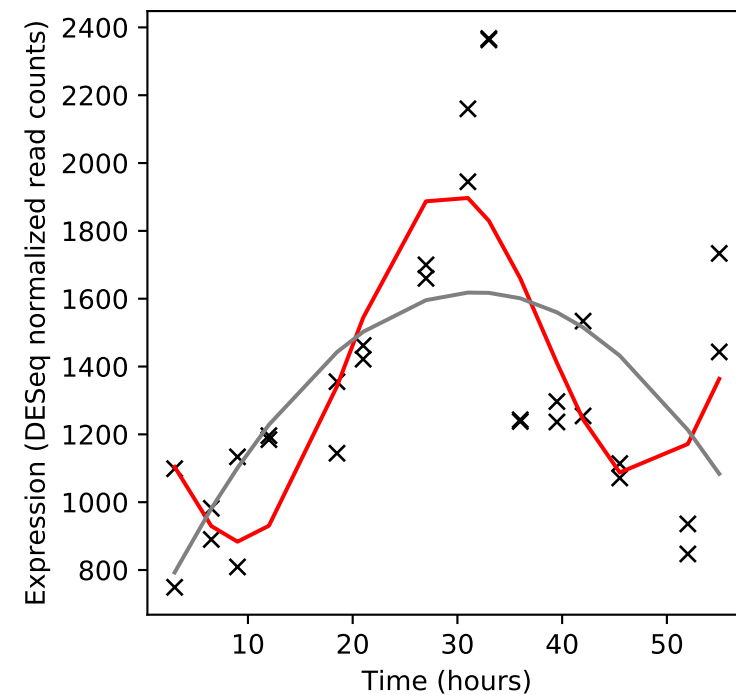
Rv0285/PE5



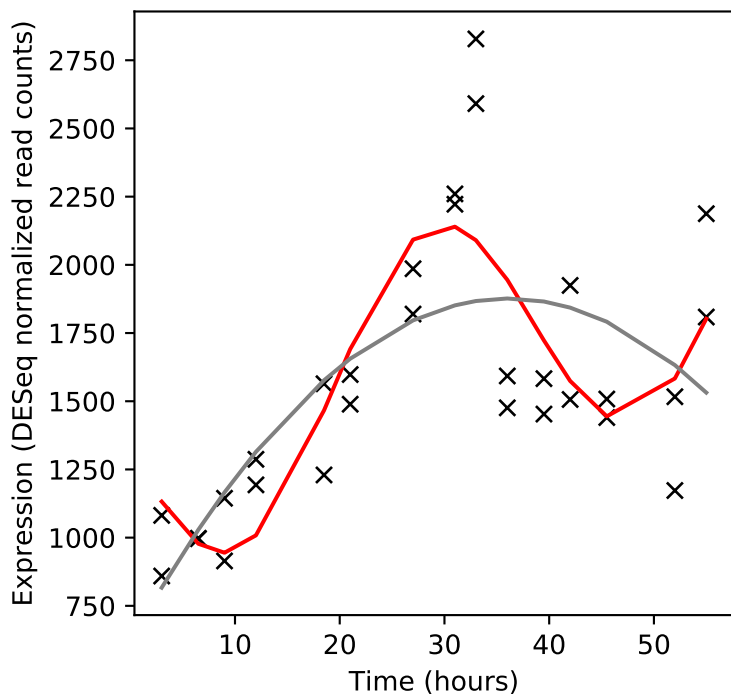
Rv0286/PPE4



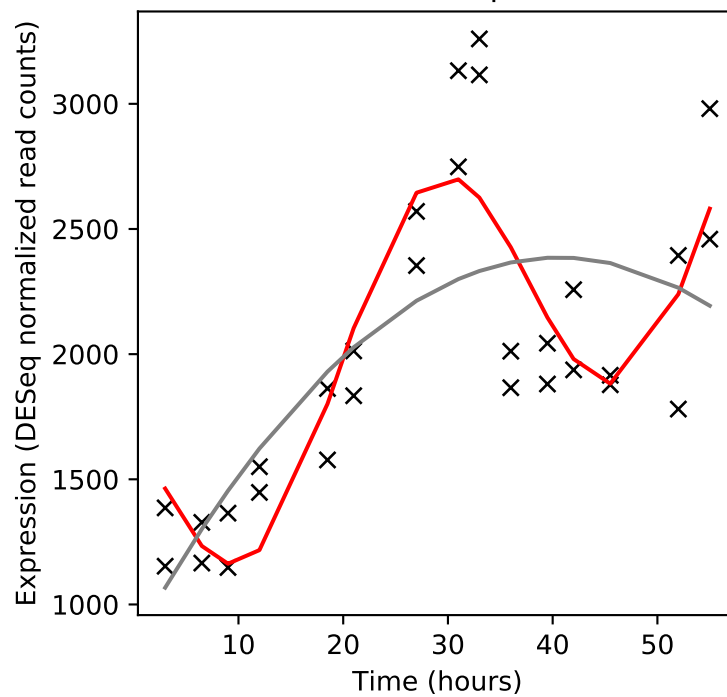
Rv0287/esxG



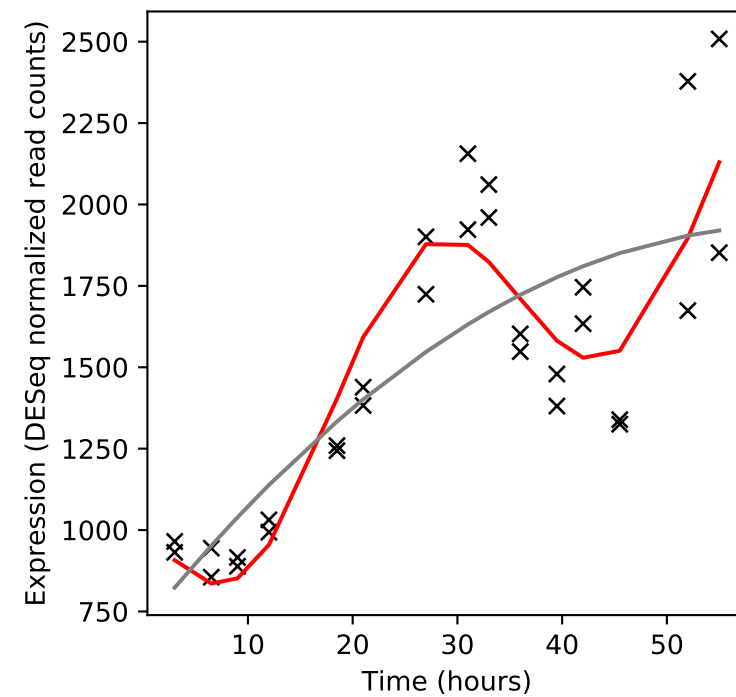
Rv0288/esxH



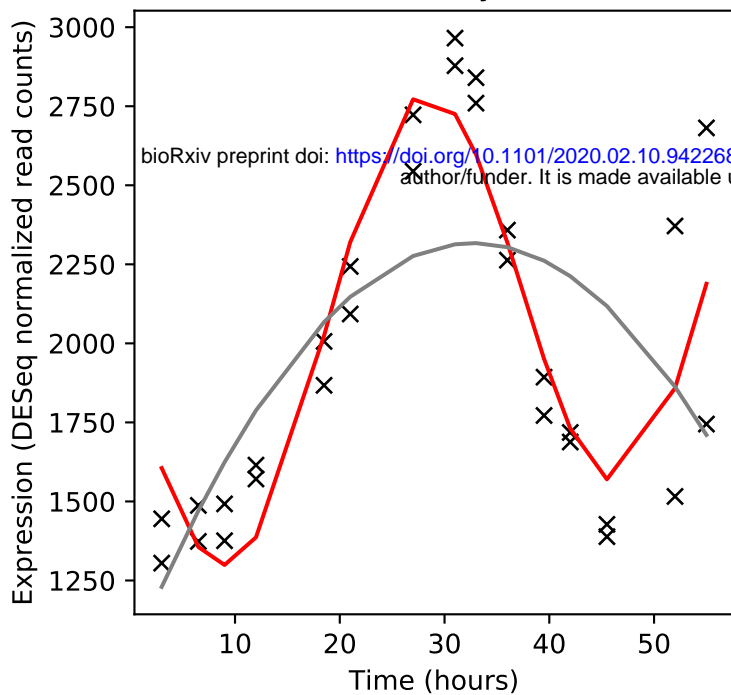
Rv0289/espG3



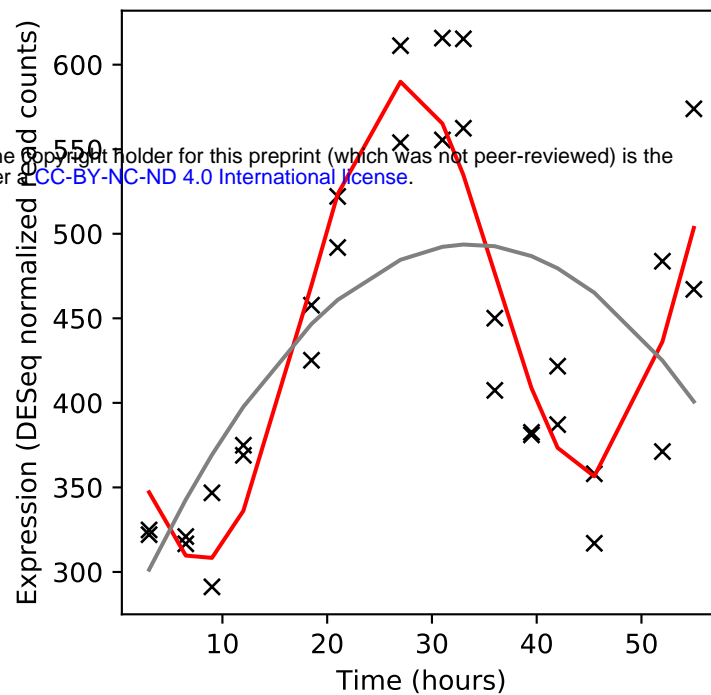
Rv0290/eccD3



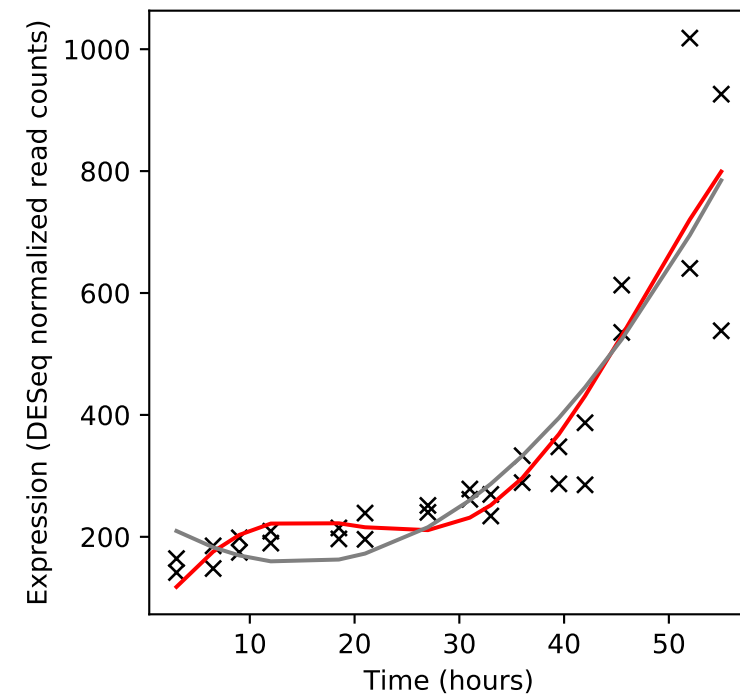
Rv0291/mycP3



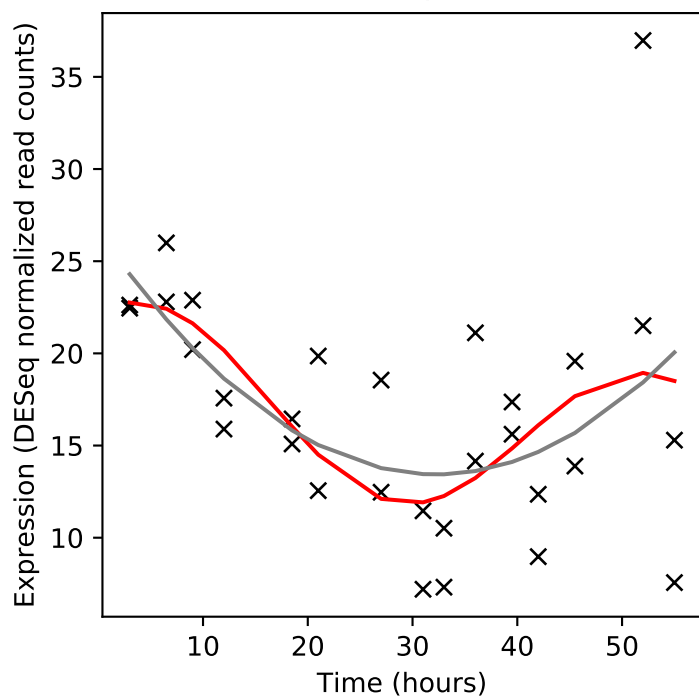
Rv0292/eccE3



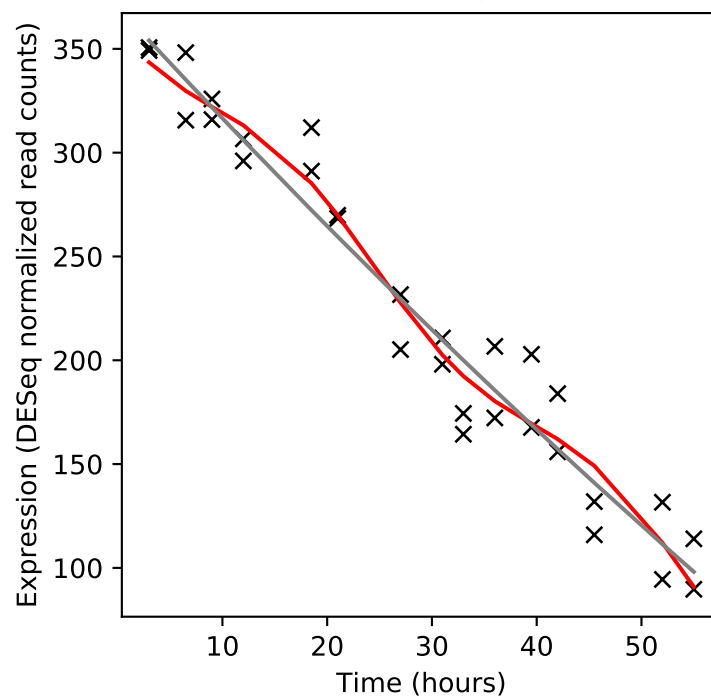
Rv0293c/-



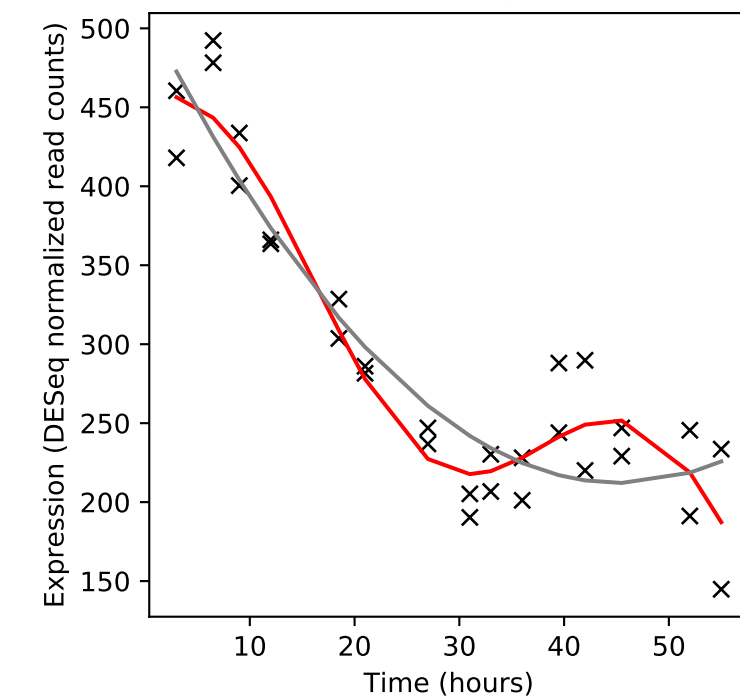
Rv0294/tam



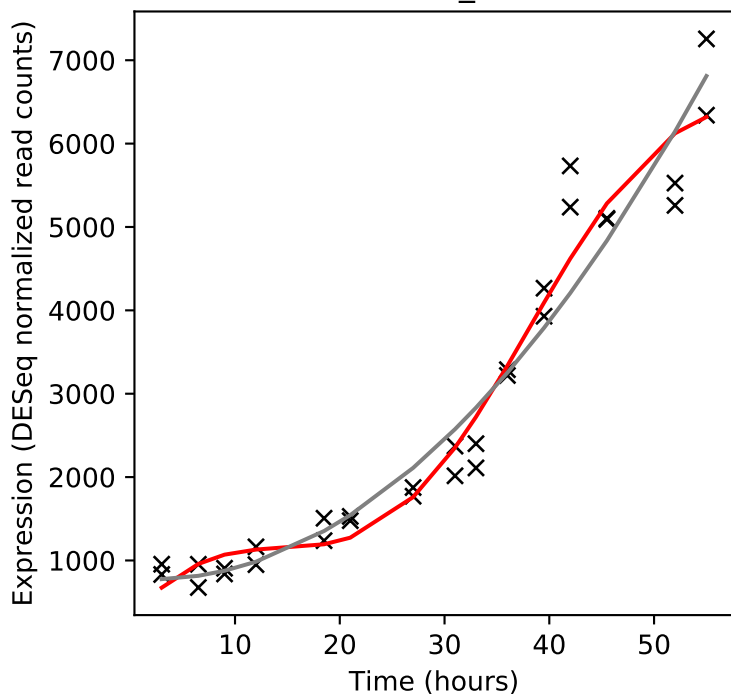
Rv0295c/-



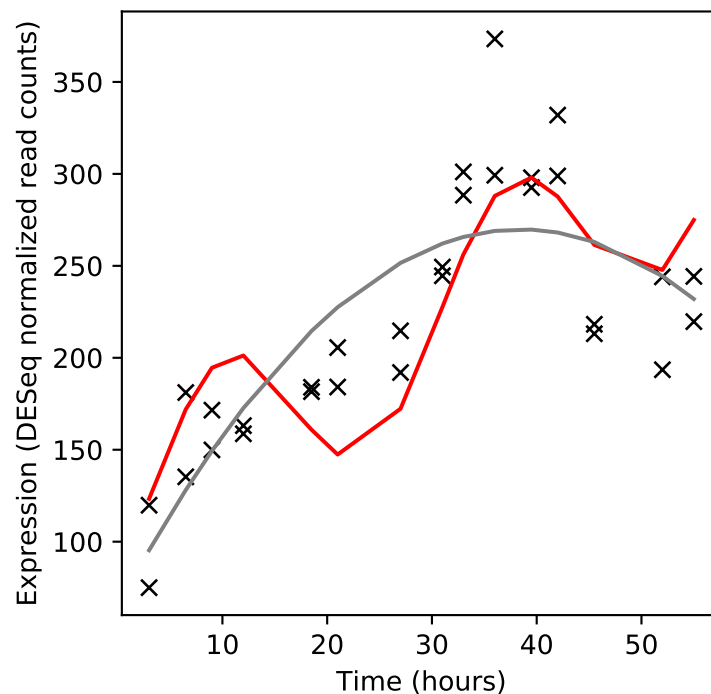
Rv0296c/-



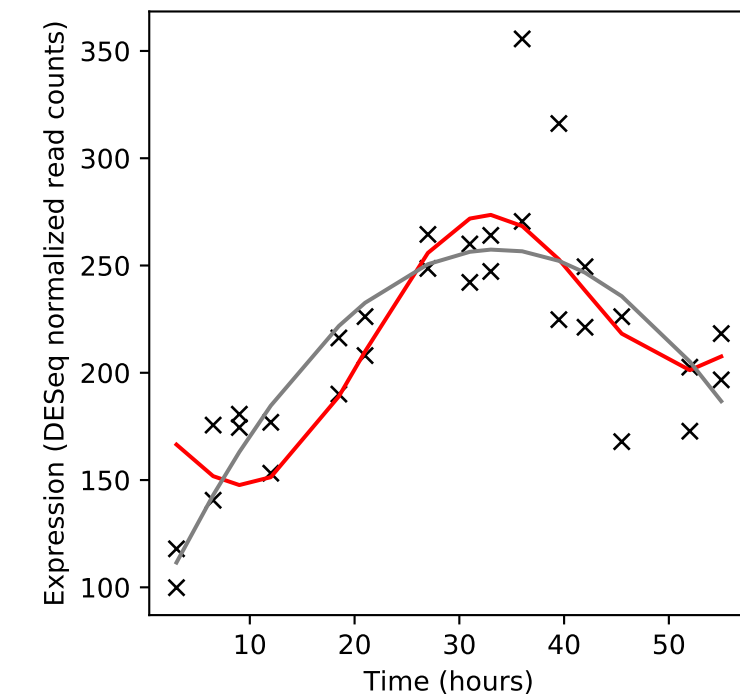
Rv0297/PE_PGRS5



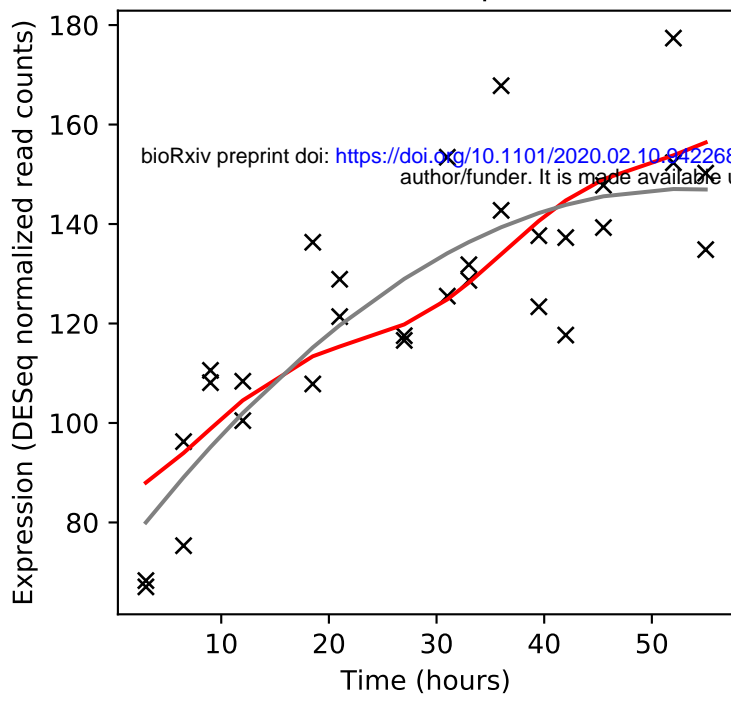
Rv0298/-



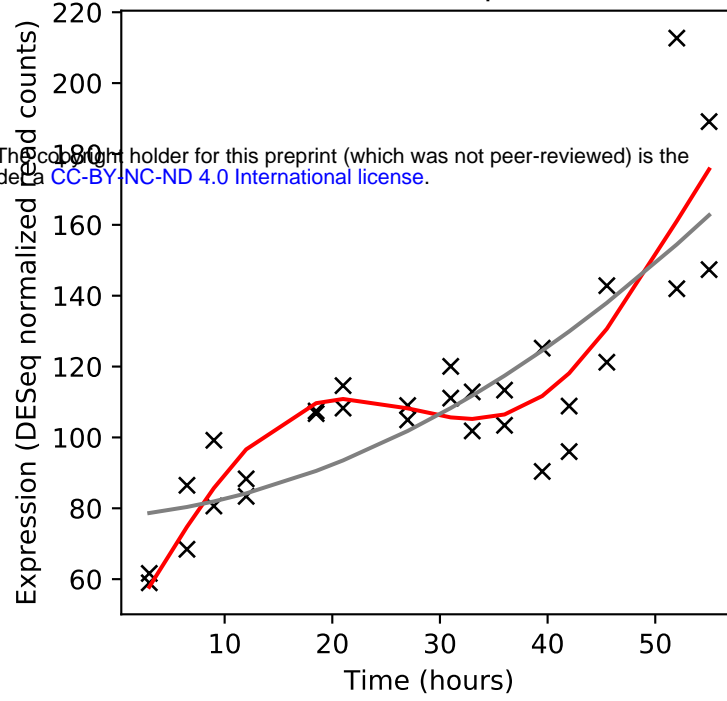
Rv0299/-



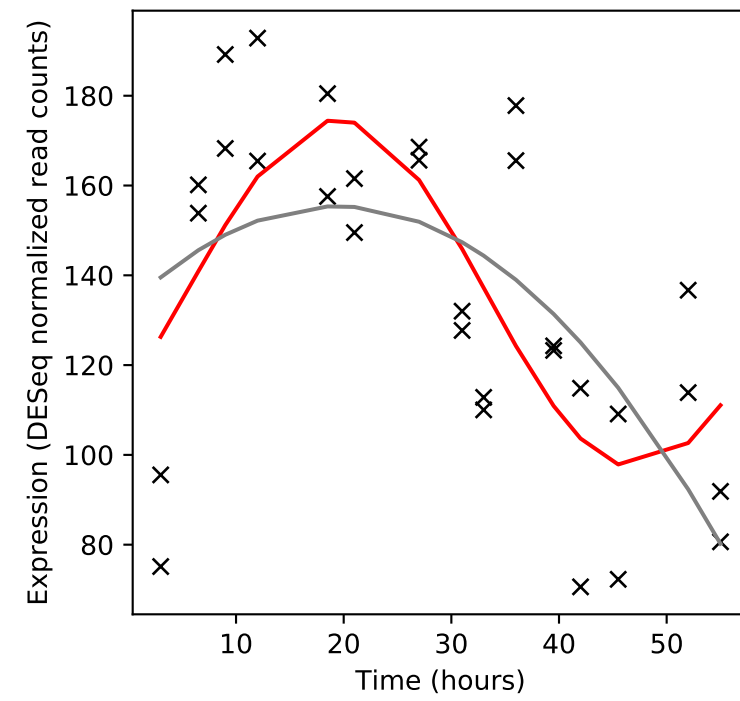
Rv0300/vapB2



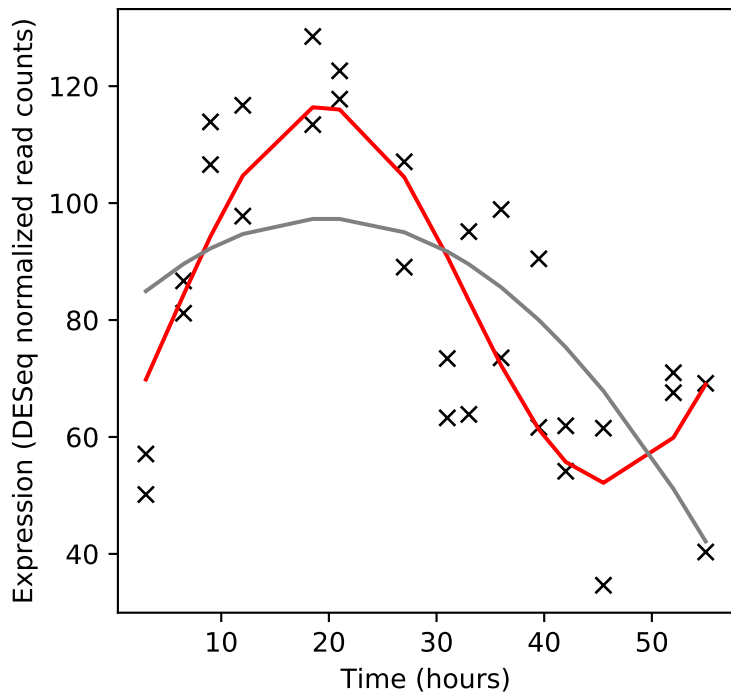
Rv0301/vapC2



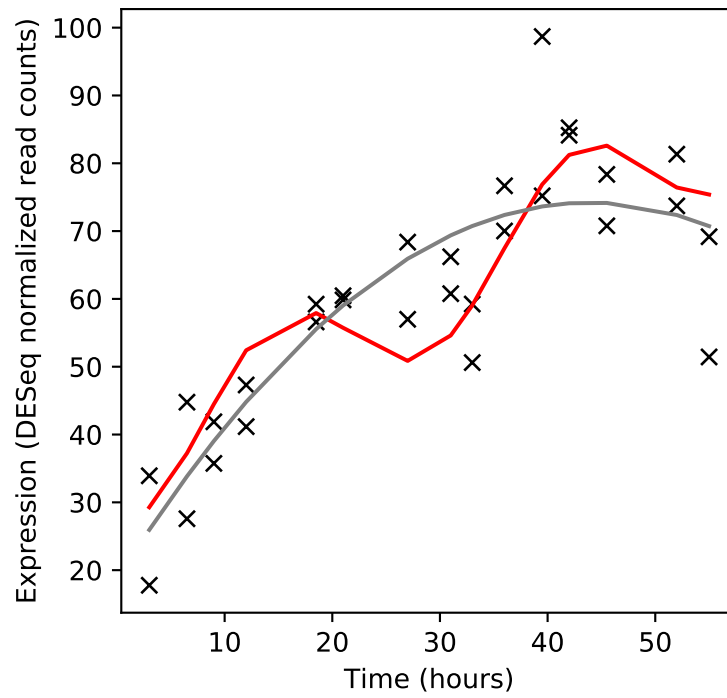
Rv0302/-



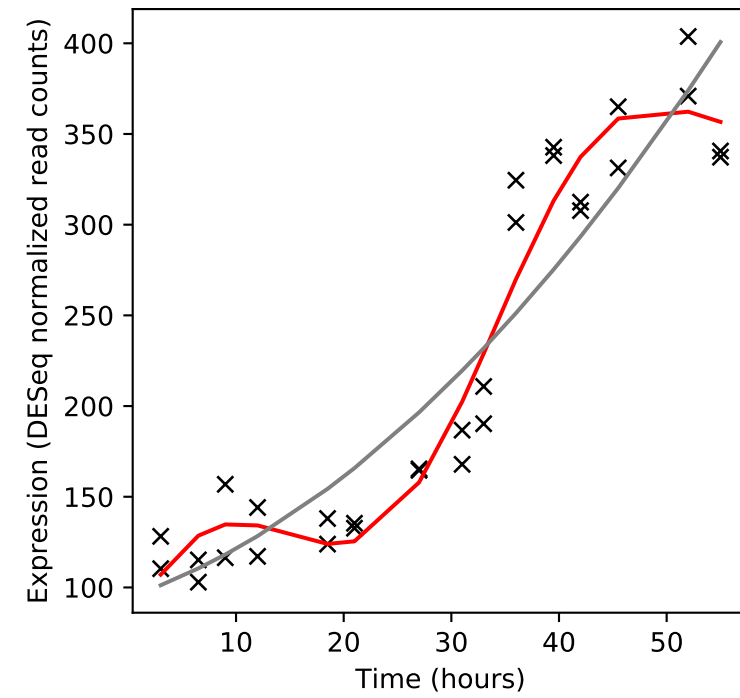
Rv0303/-



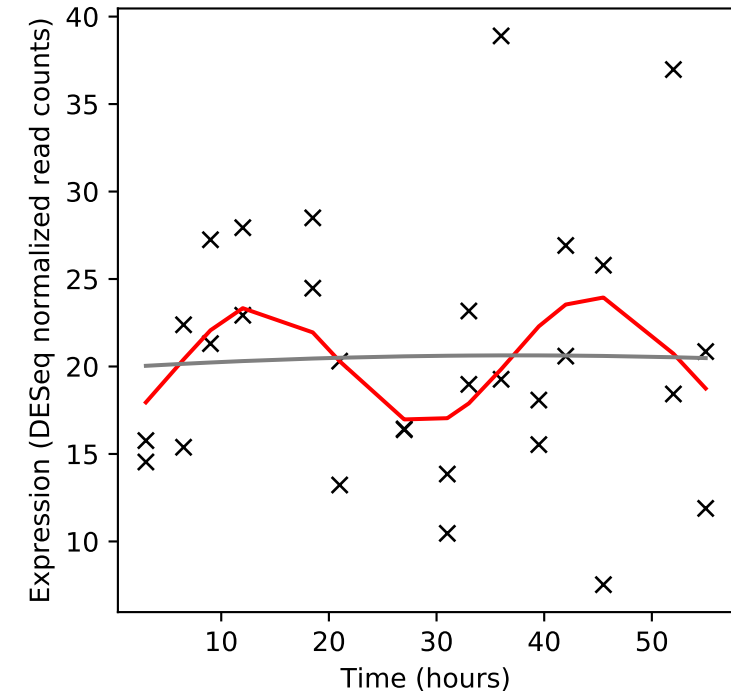
Rv0304c/PPE5



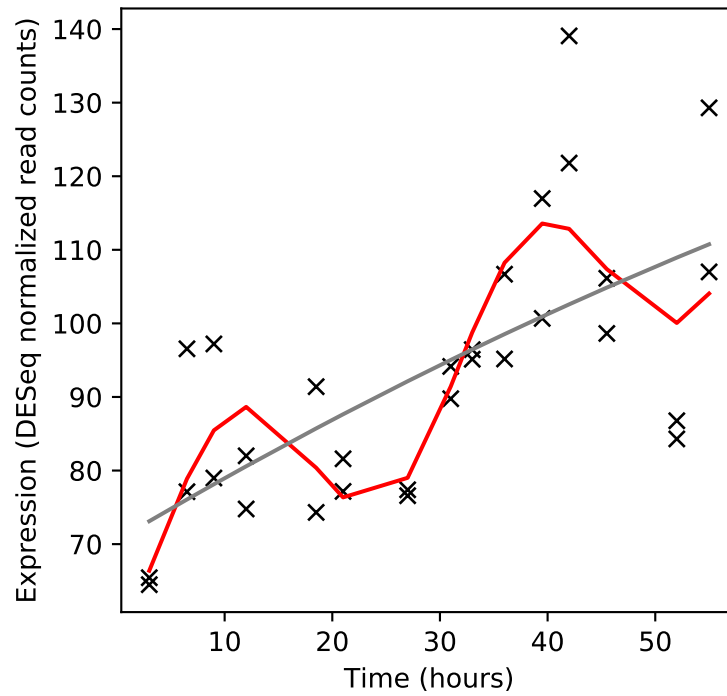
Rv0305c/PPE6



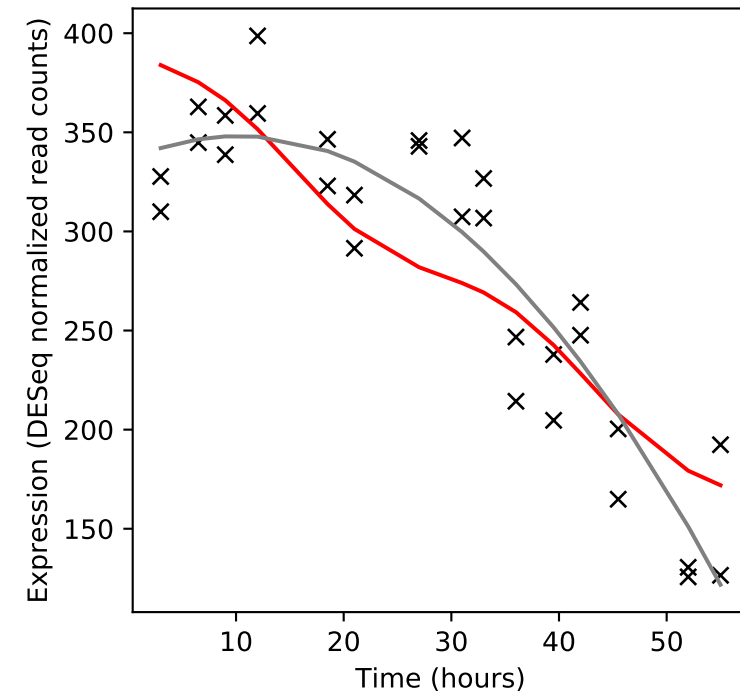
Rv0306/-



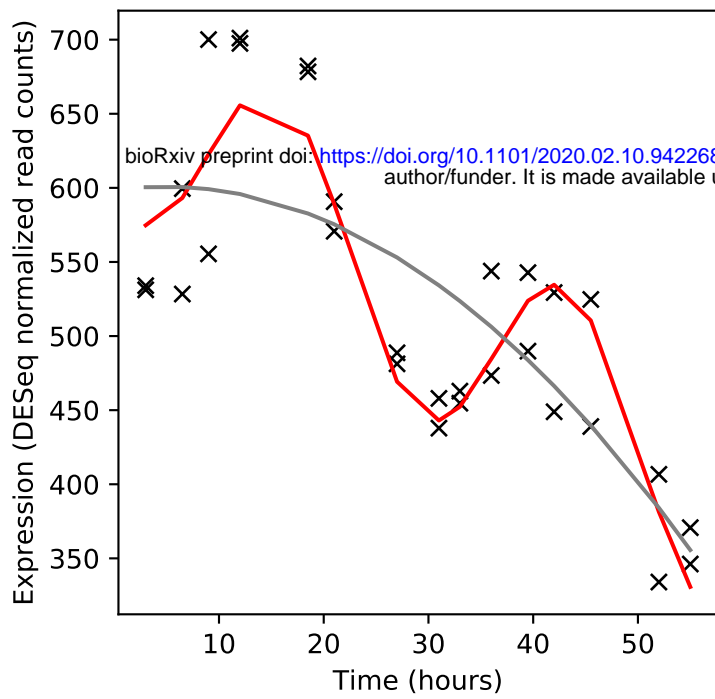
Rv0307c/-



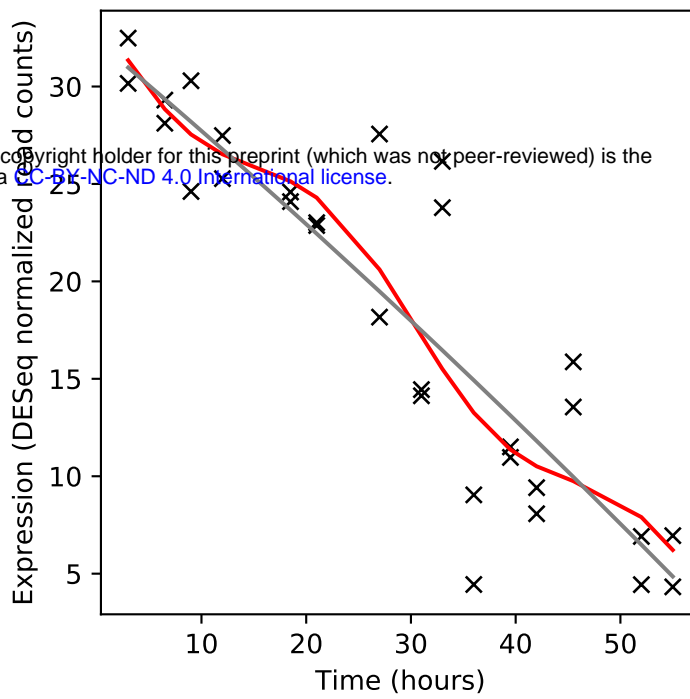
Rv0308/-



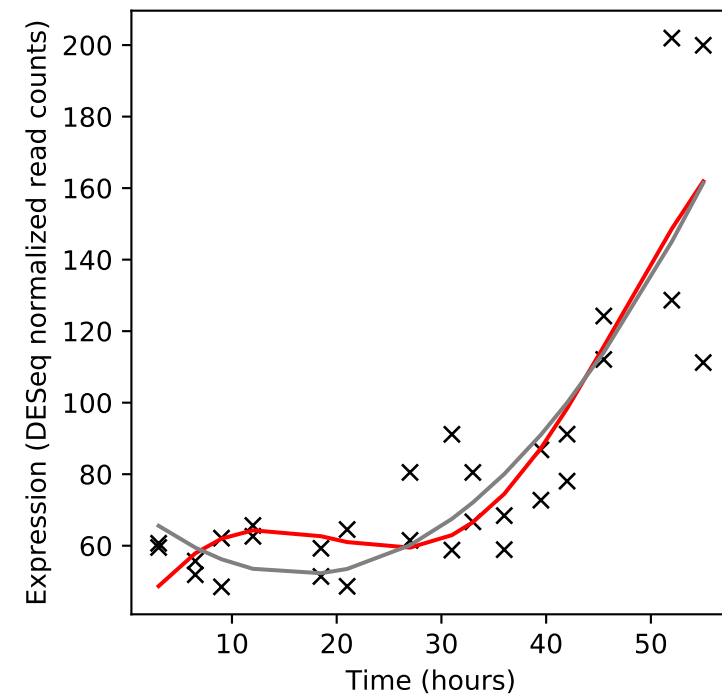
Rv0309/-



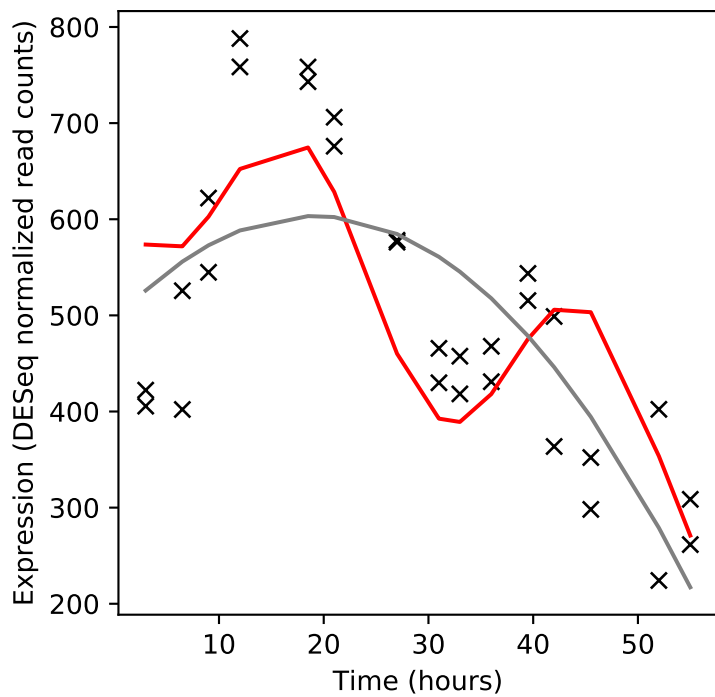
Rv0310c/-



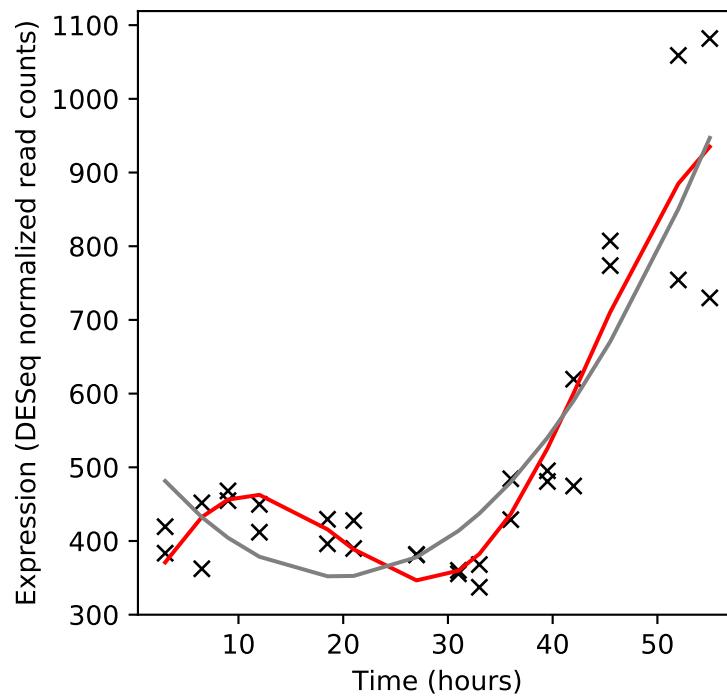
Rv0311/-



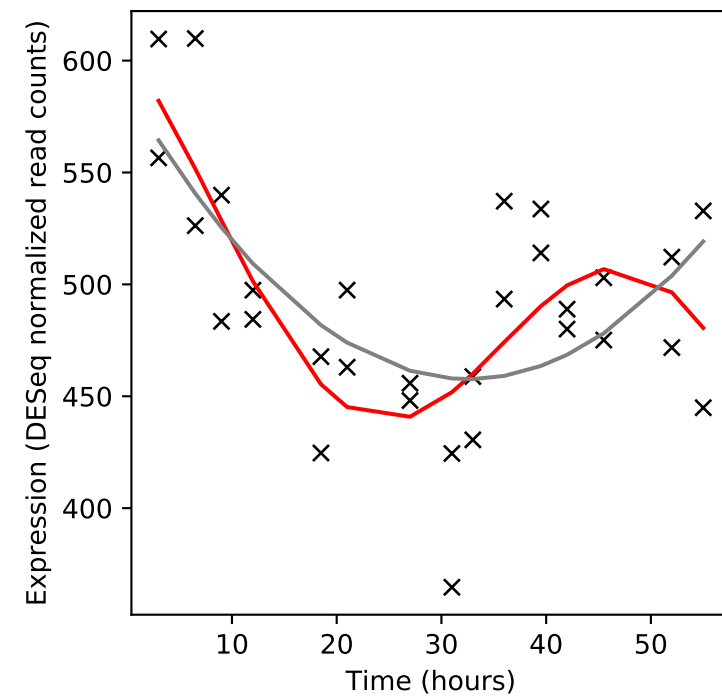
Rv0312/-



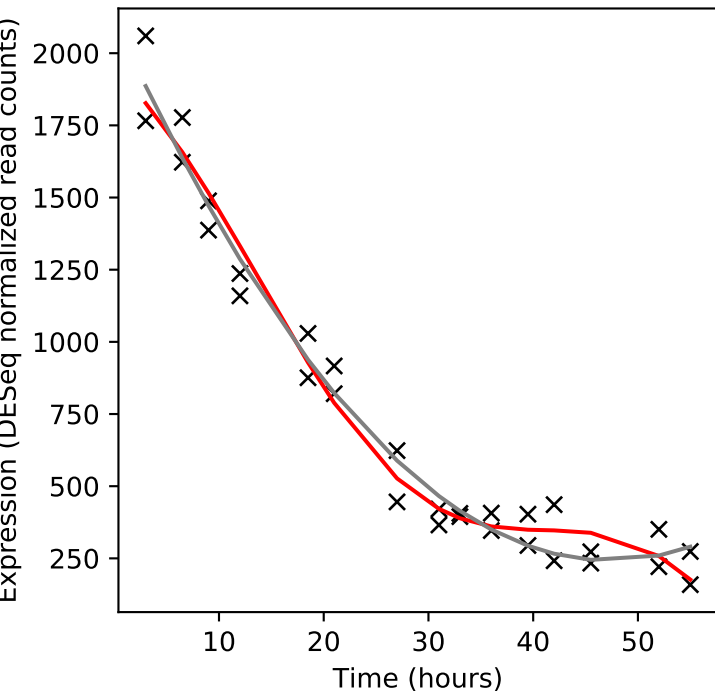
Rv0313/-



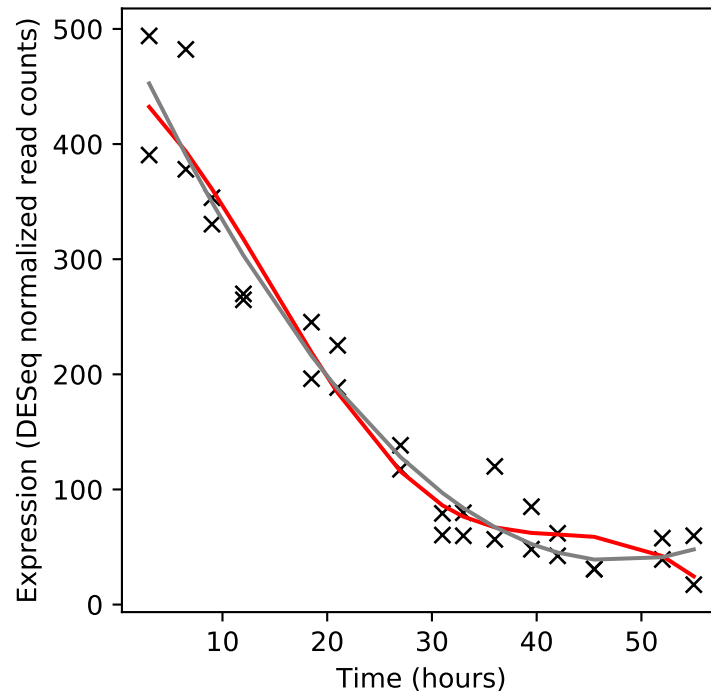
Rv0314c/-



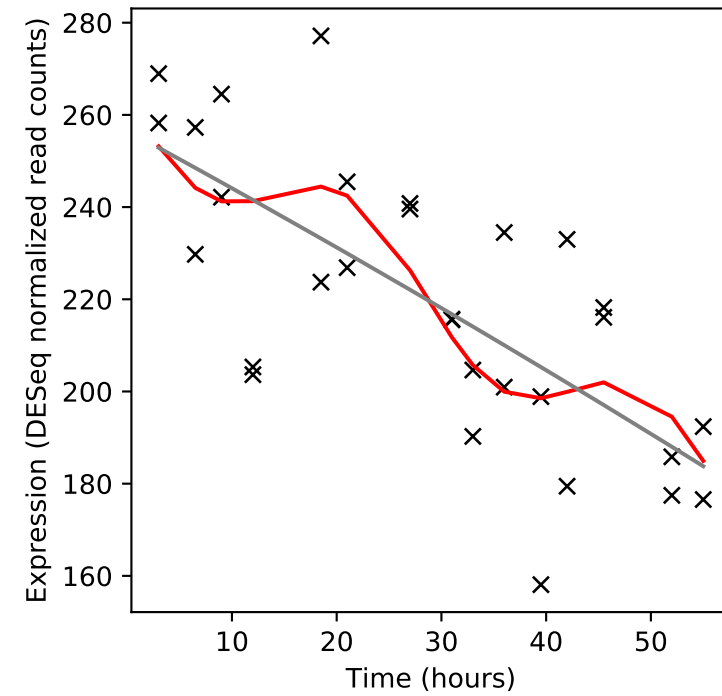
Rv0315/-



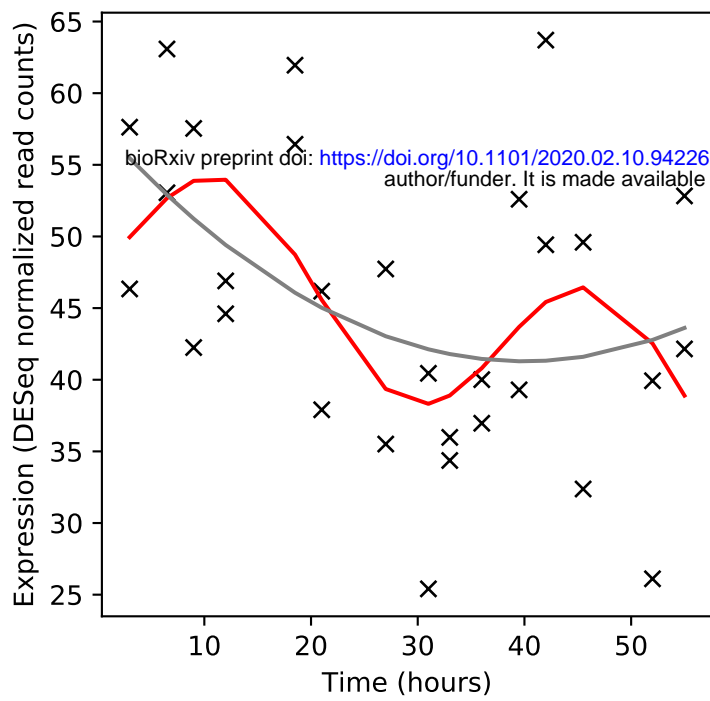
Rv0316/-



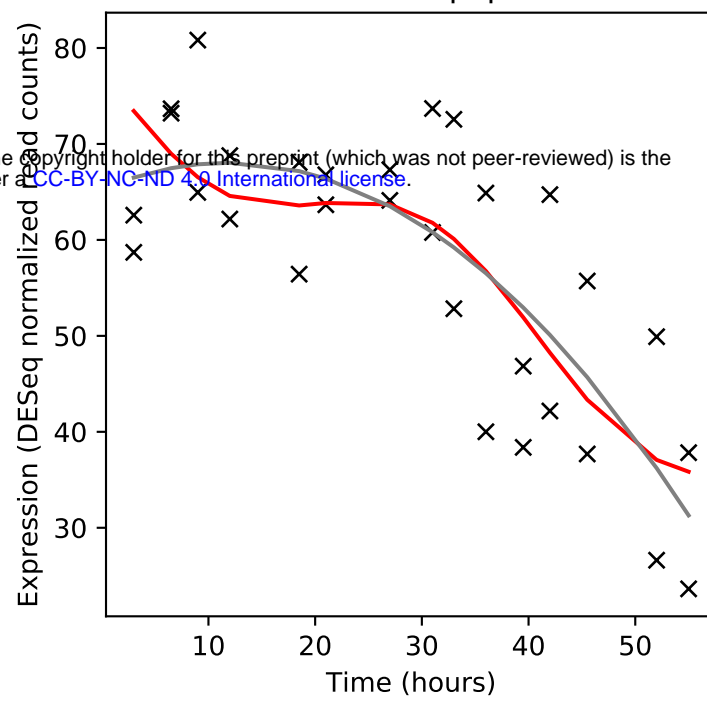
Rv0317c/glpQ2



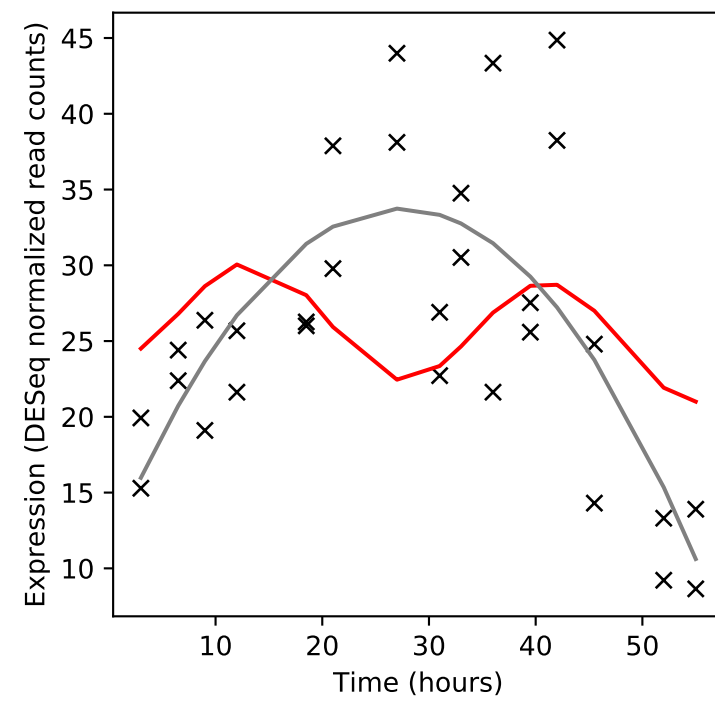
Rv0318c/-



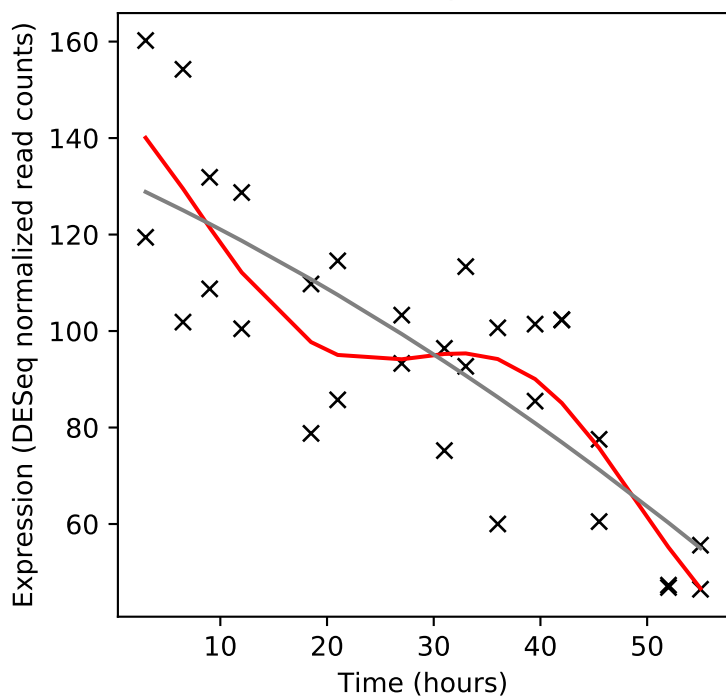
Rv0319/pcp



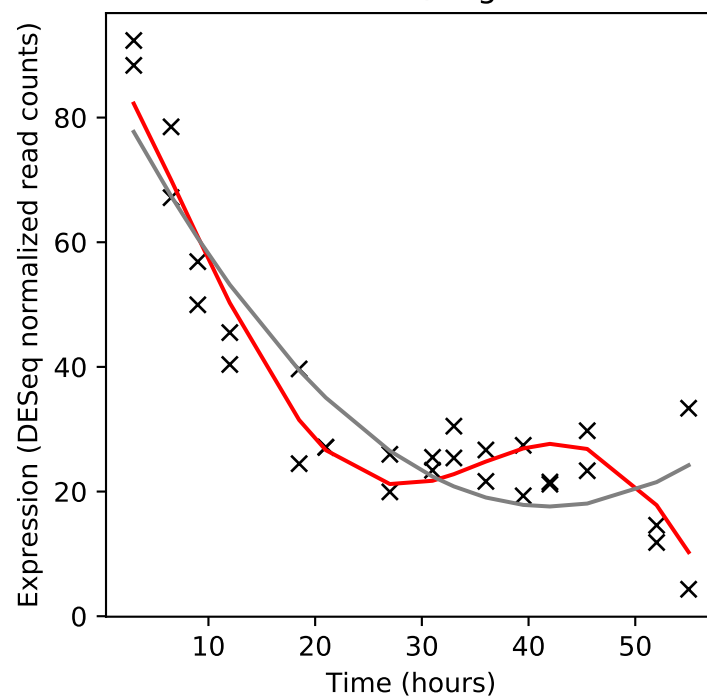
Rv0320/-



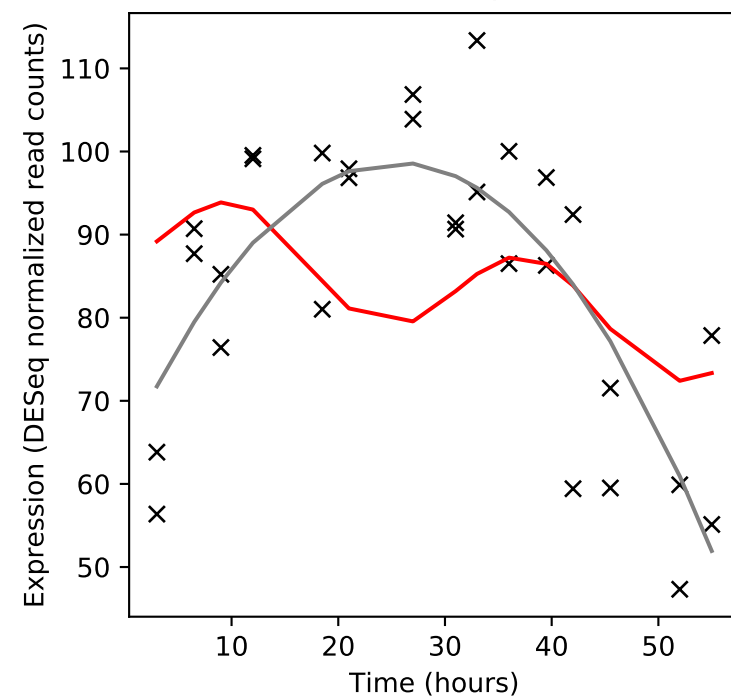
Rv0321/dcd



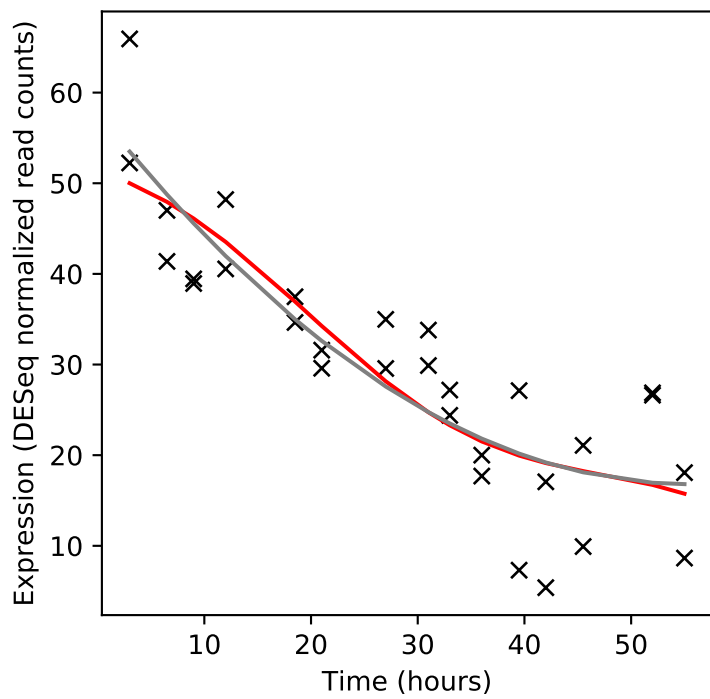
Rv0322/udgA



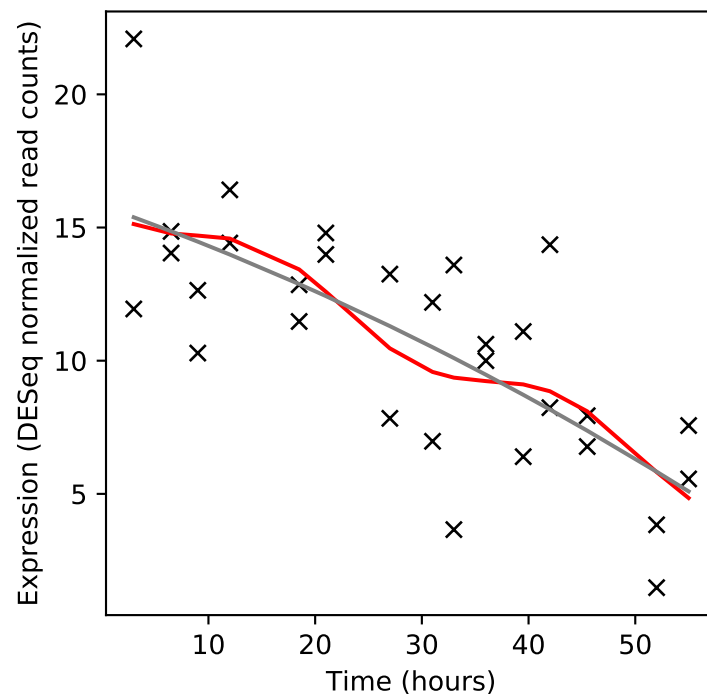
Rv0323c/-



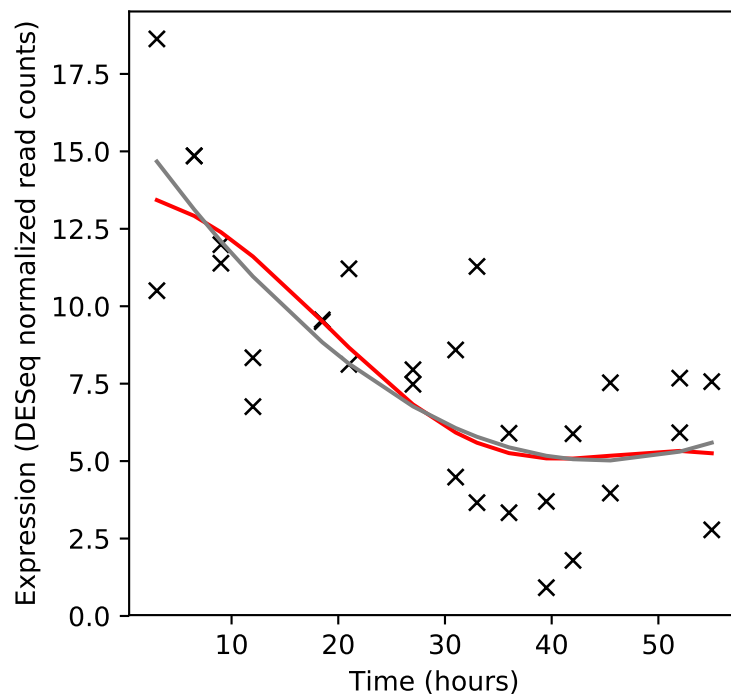
Rv0324/-



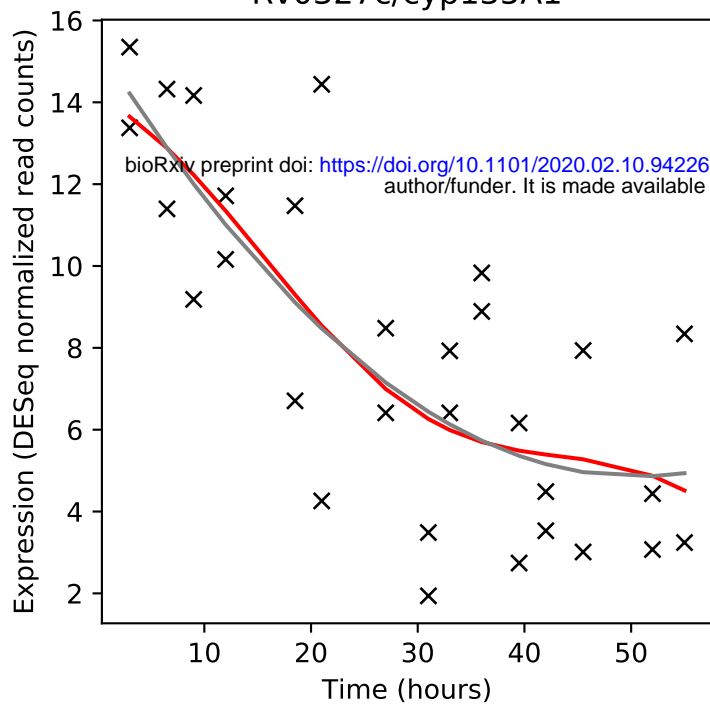
Rv0325/-



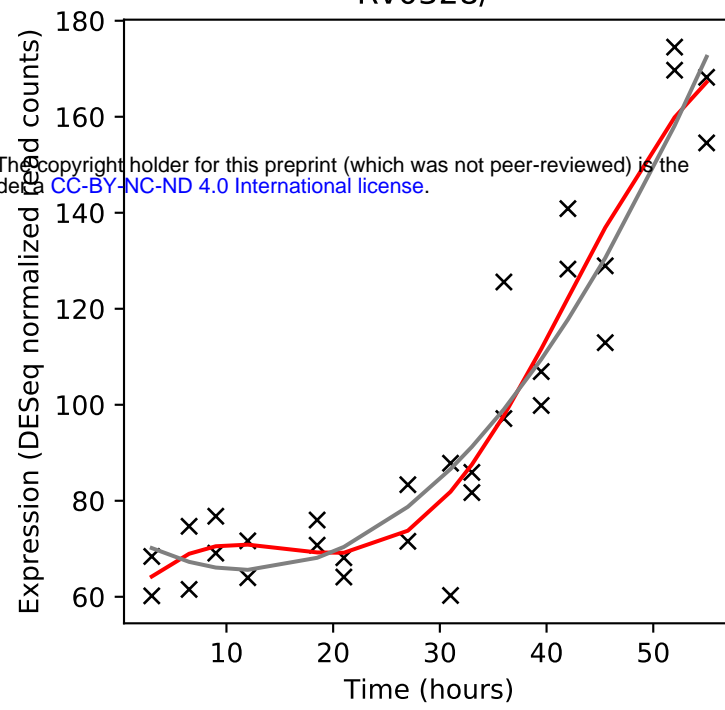
Rv0326/-



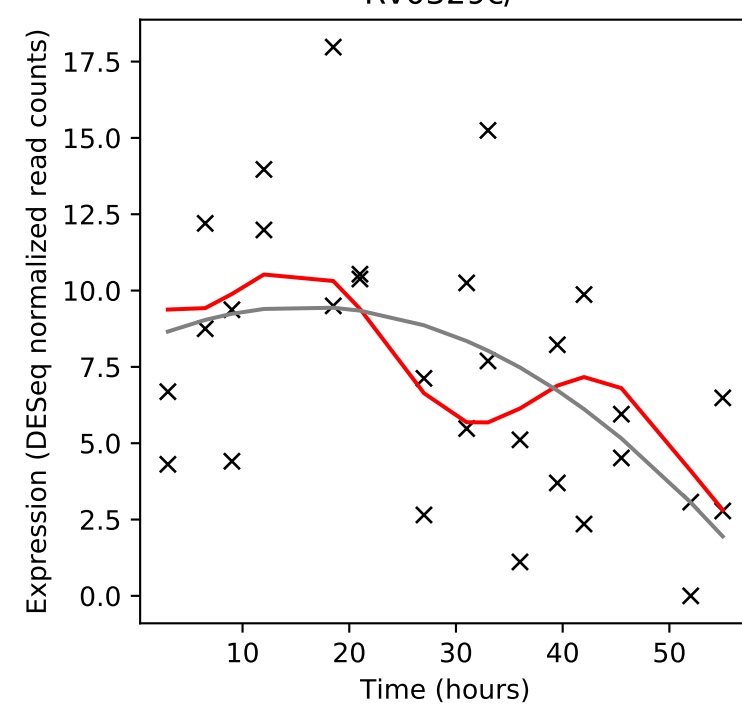
Rv0327c/cyp135A1



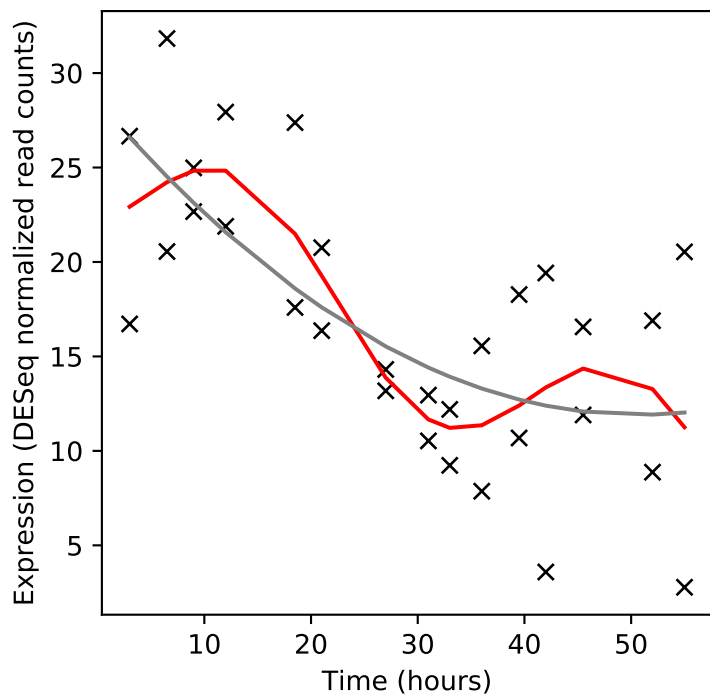
Rv0328/-



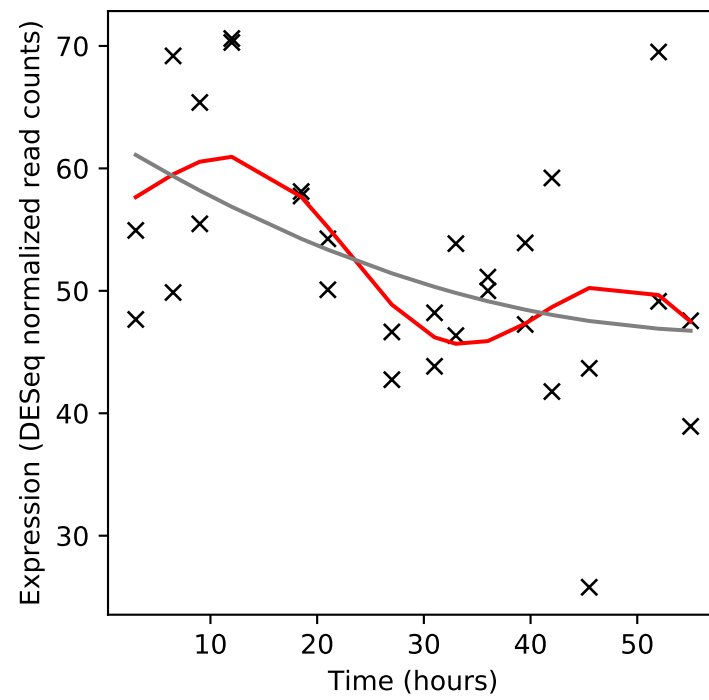
Rv0329c/-



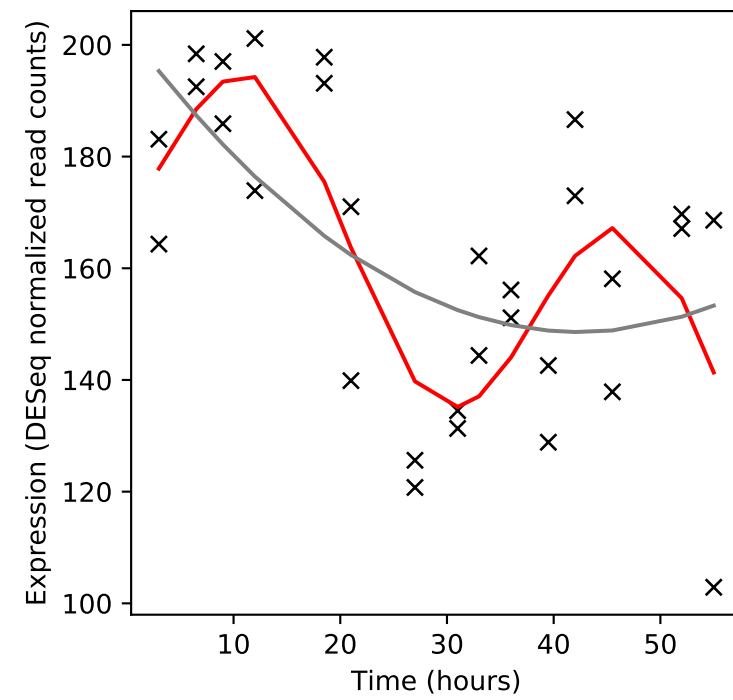
Rv0330c/-



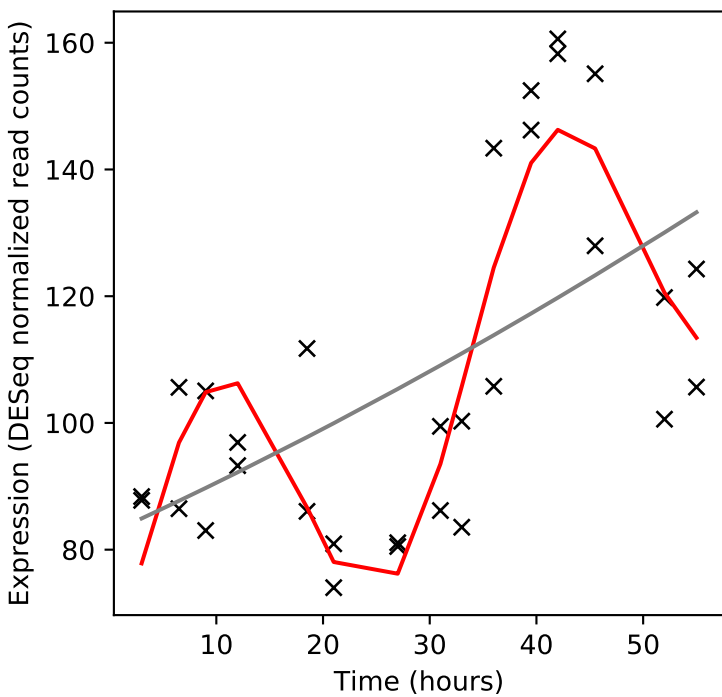
Rv0331/-



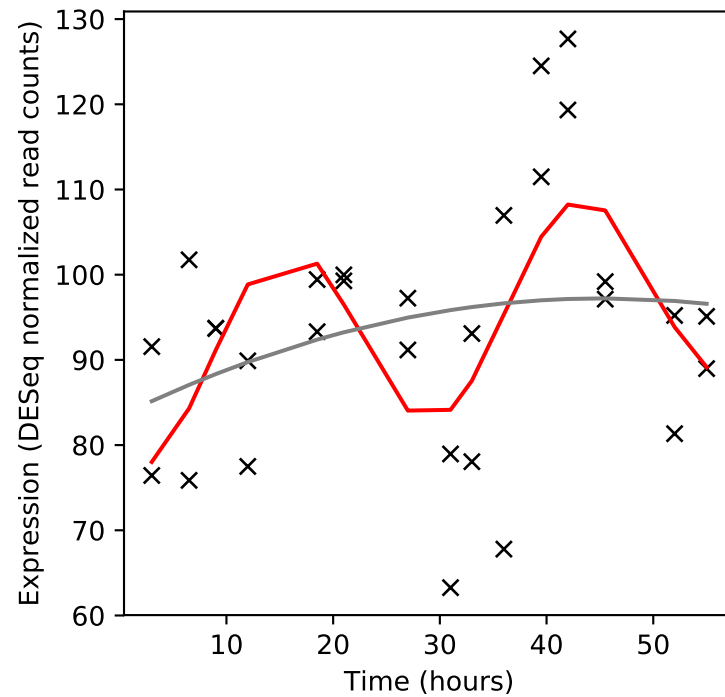
Rv0332/-



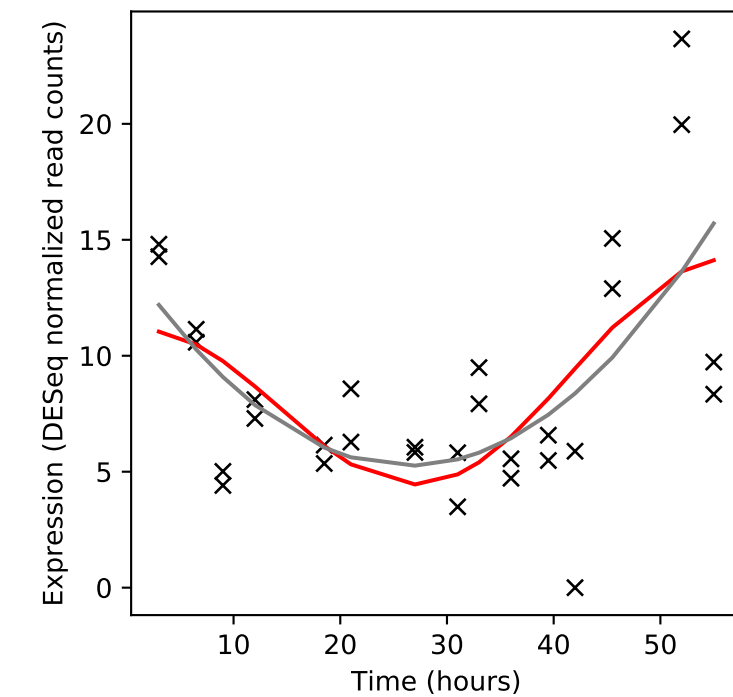
Rv0333/-



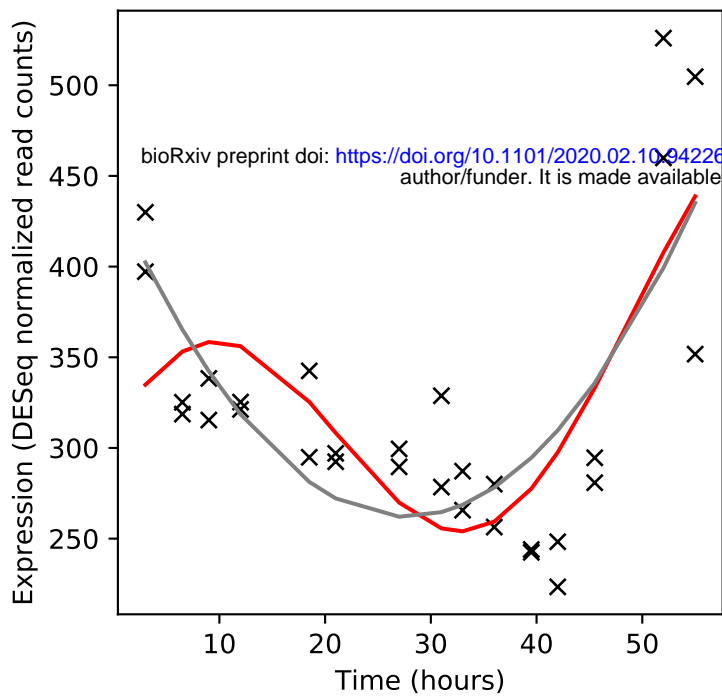
Rv0334/rmlA



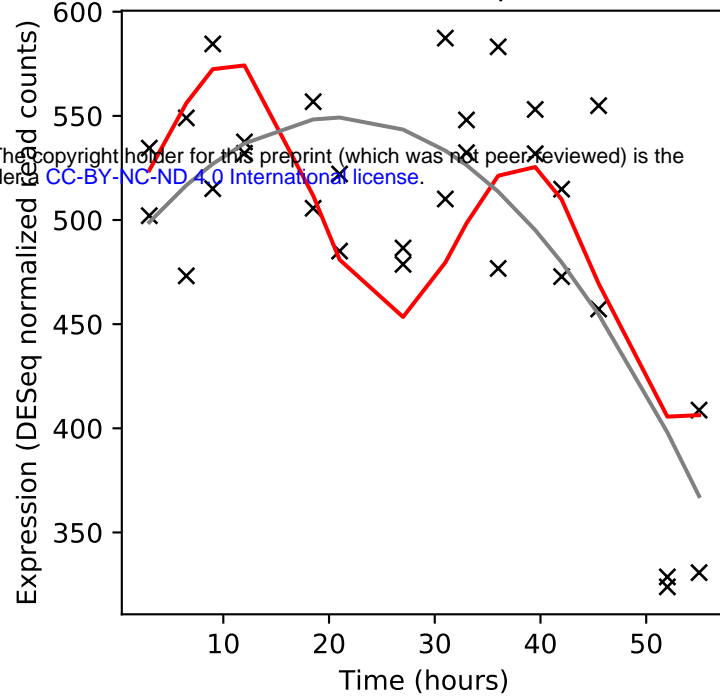
Rv0335c/PE6



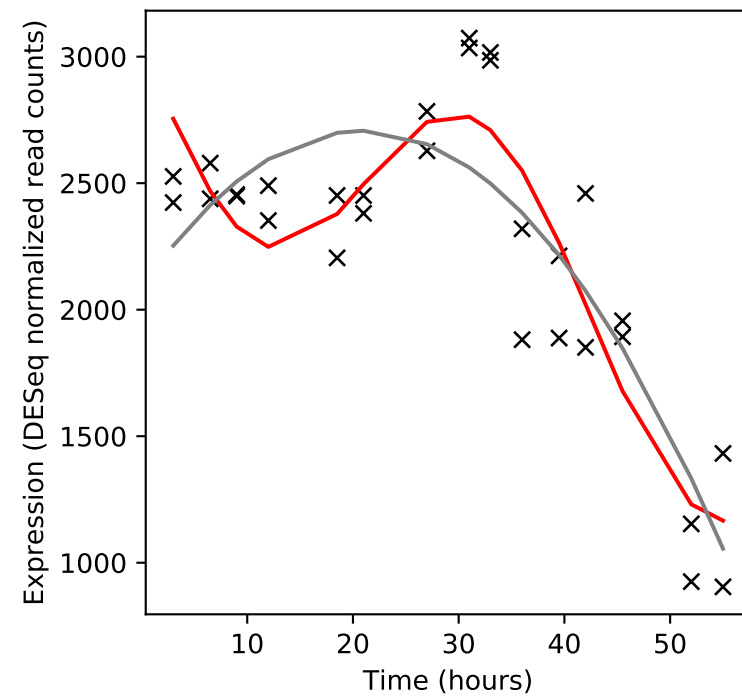
Rv0336/-



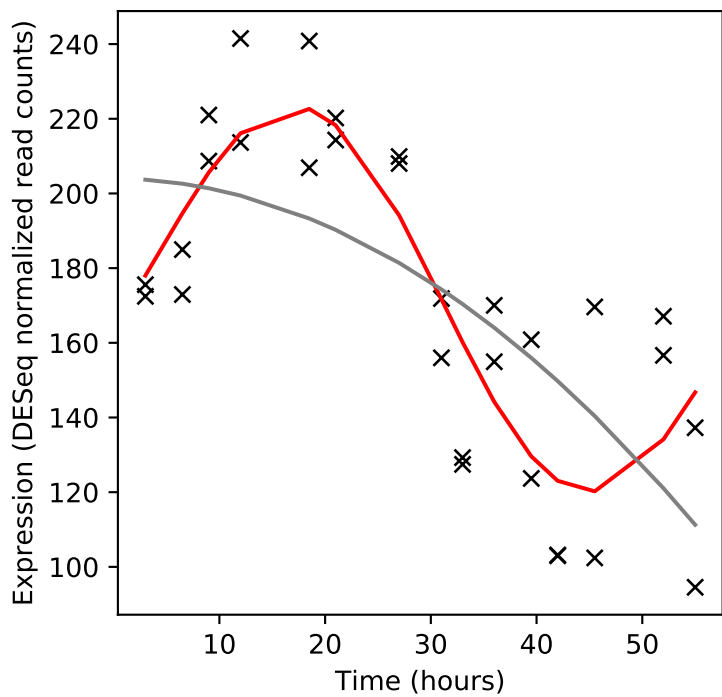
Rv0337c/aspC



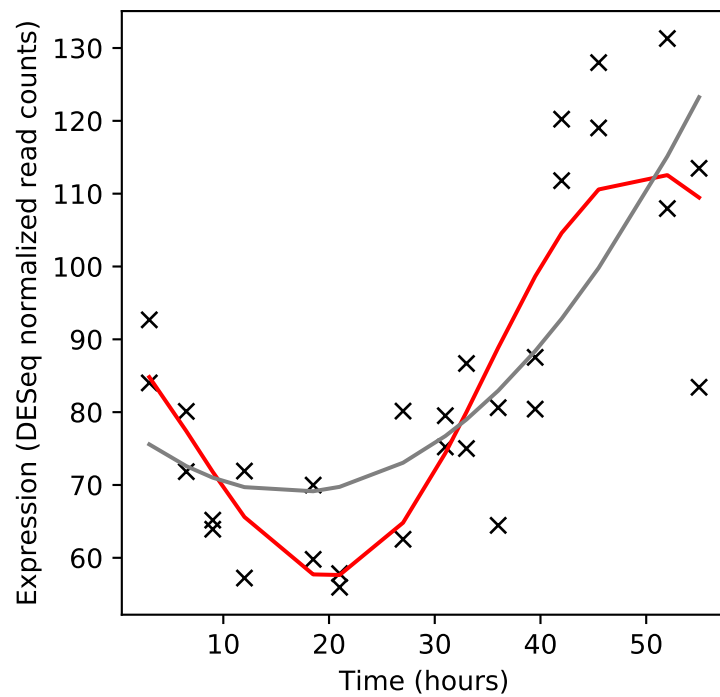
Rv0338c/-



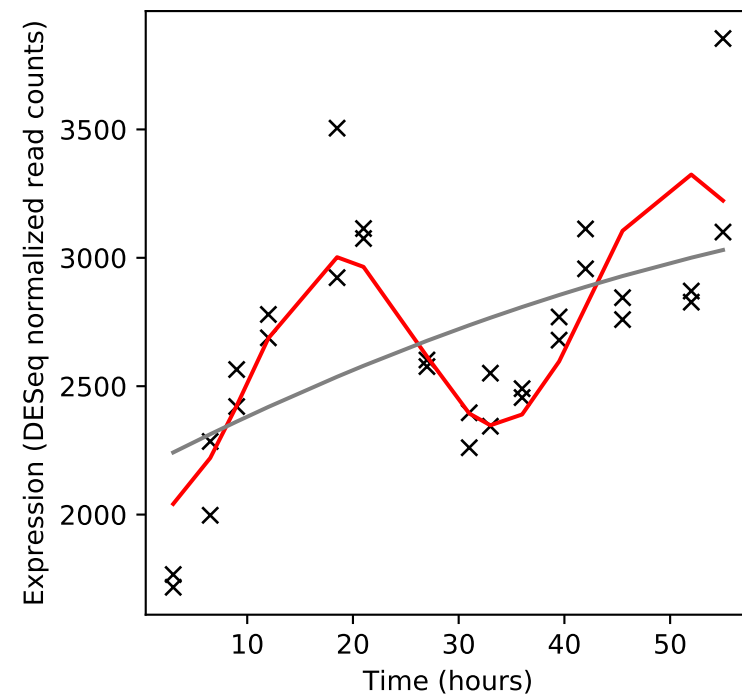
Rv0339c/-



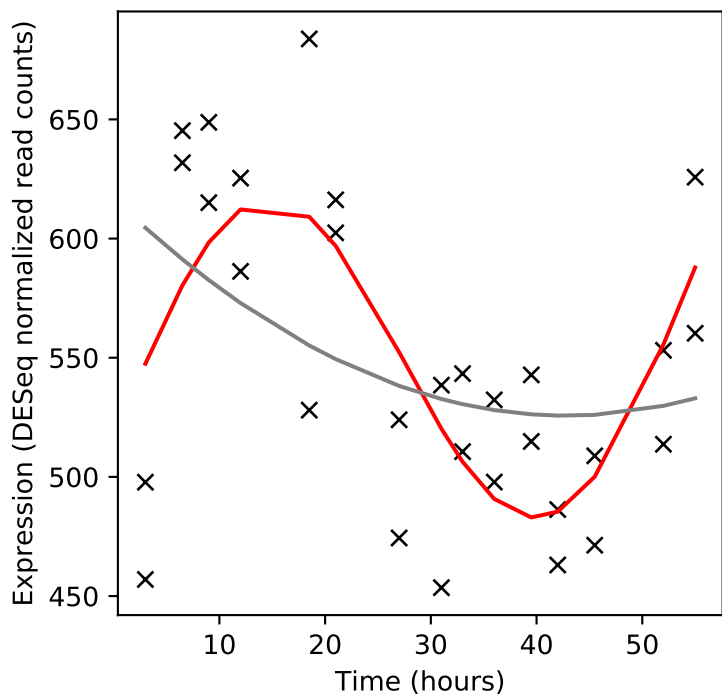
Rv0340/-



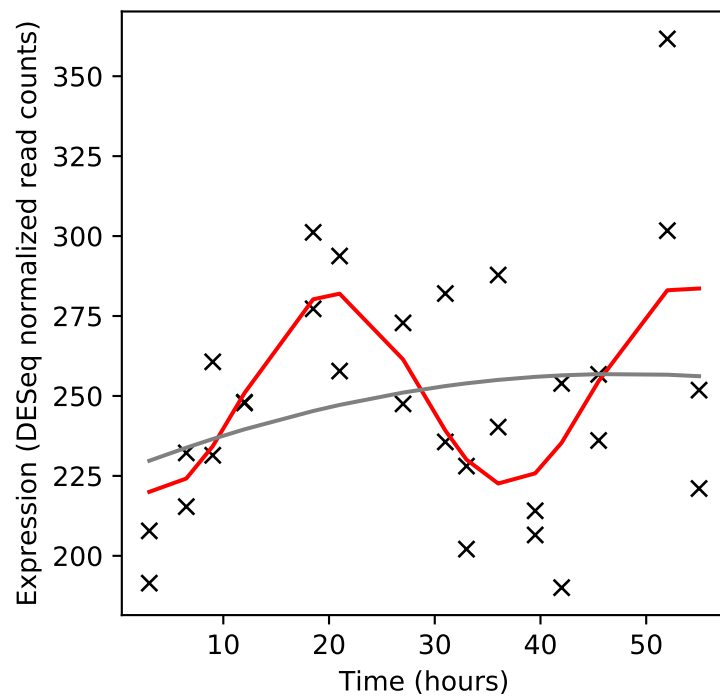
Rv0341/iniB



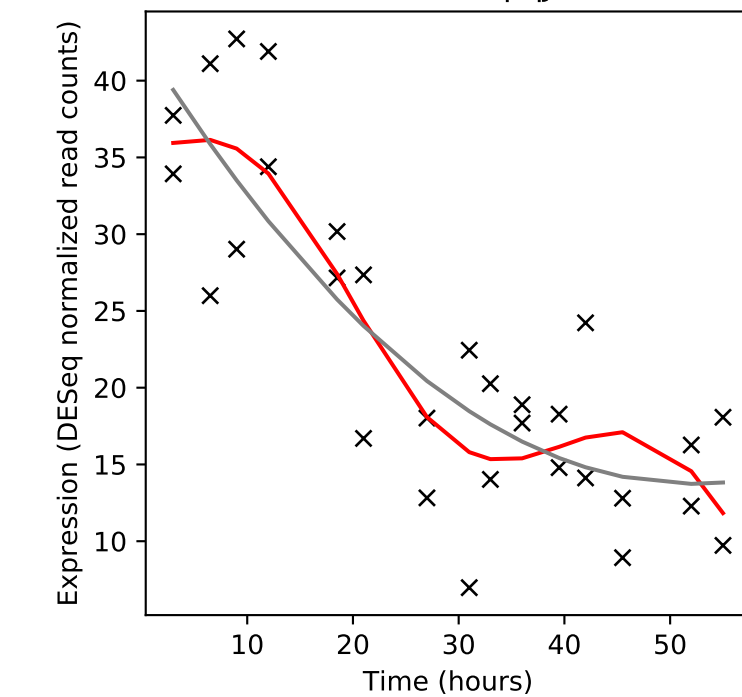
Rv0342/iniA



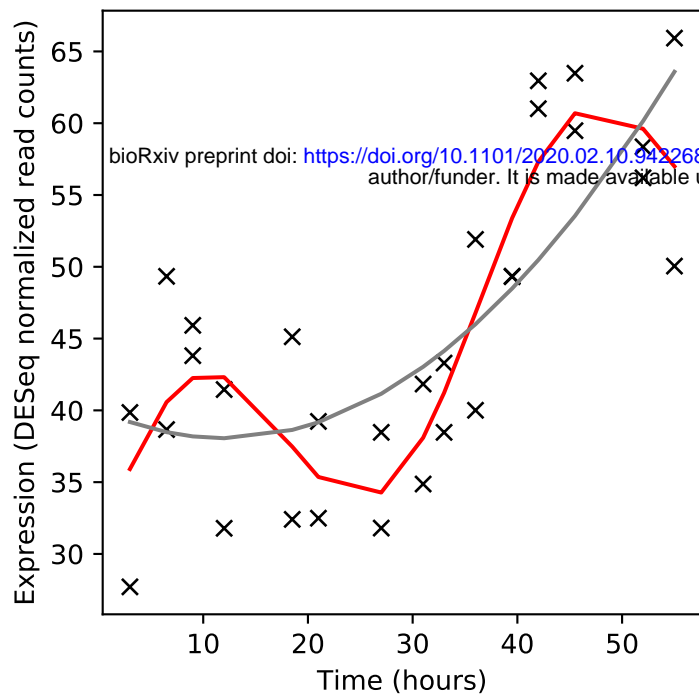
Rv0343/iniC



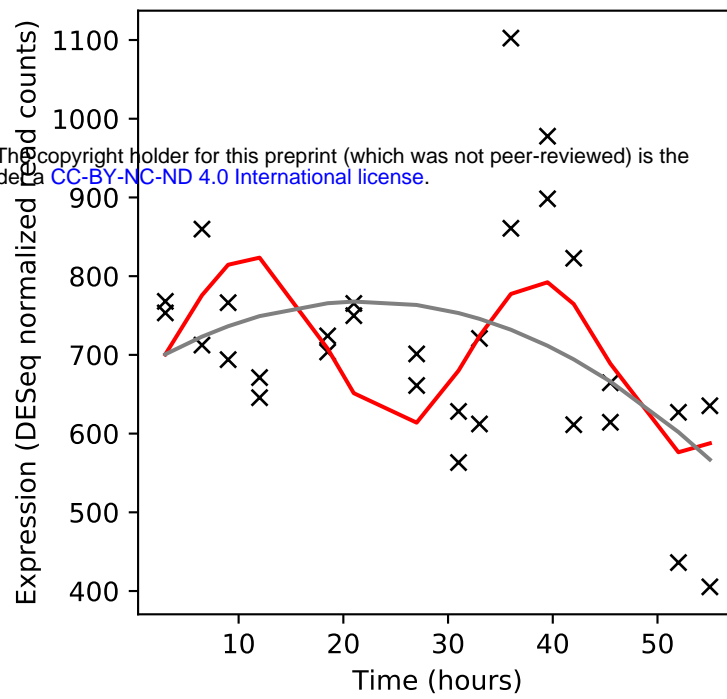
Rv0344c/lpqj



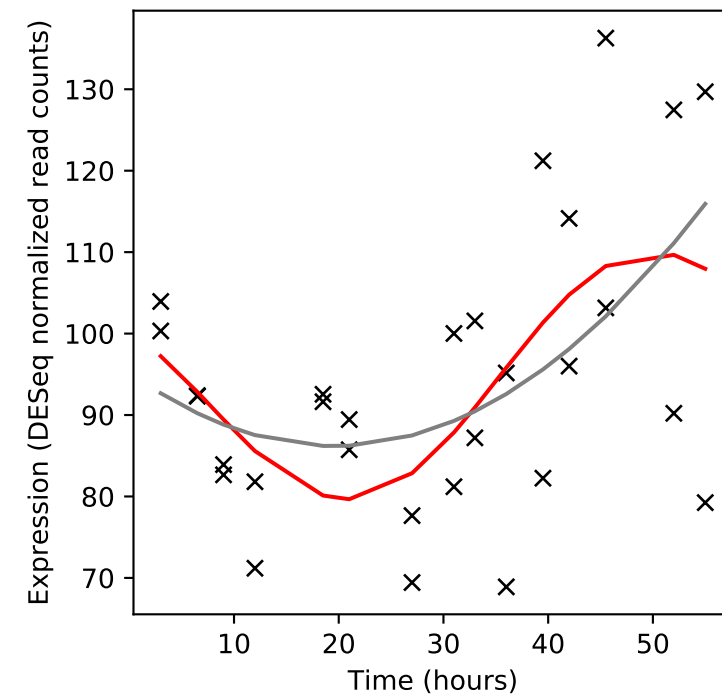
Rv0345/-



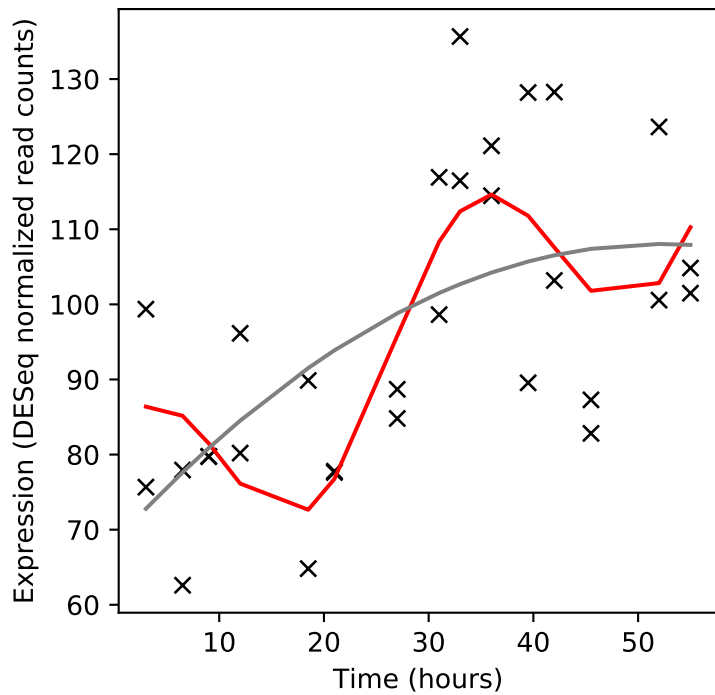
Rv0346c/ansP2



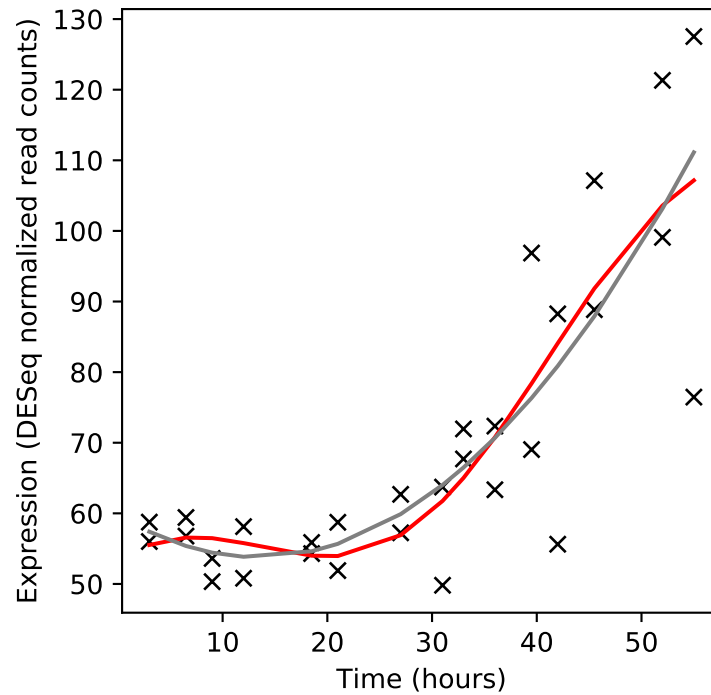
Rv0347/-



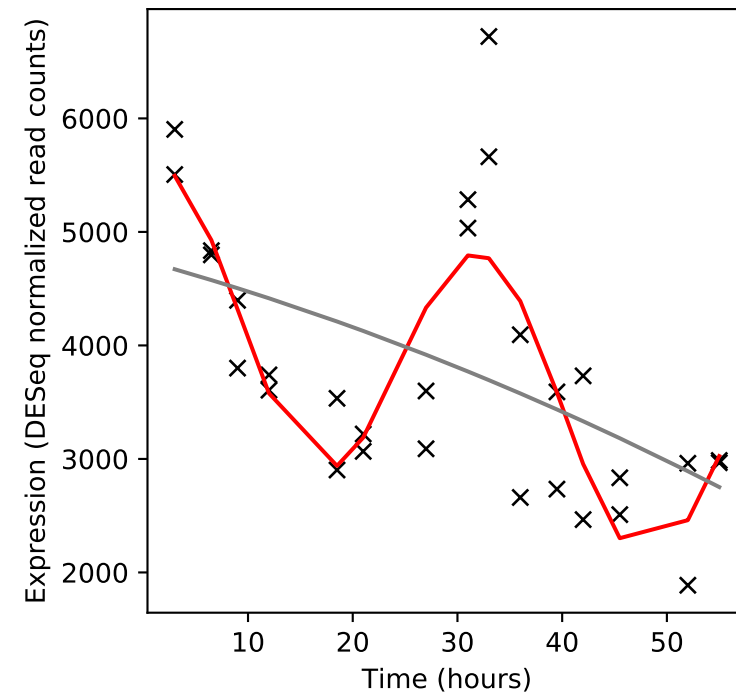
Rv0348/-



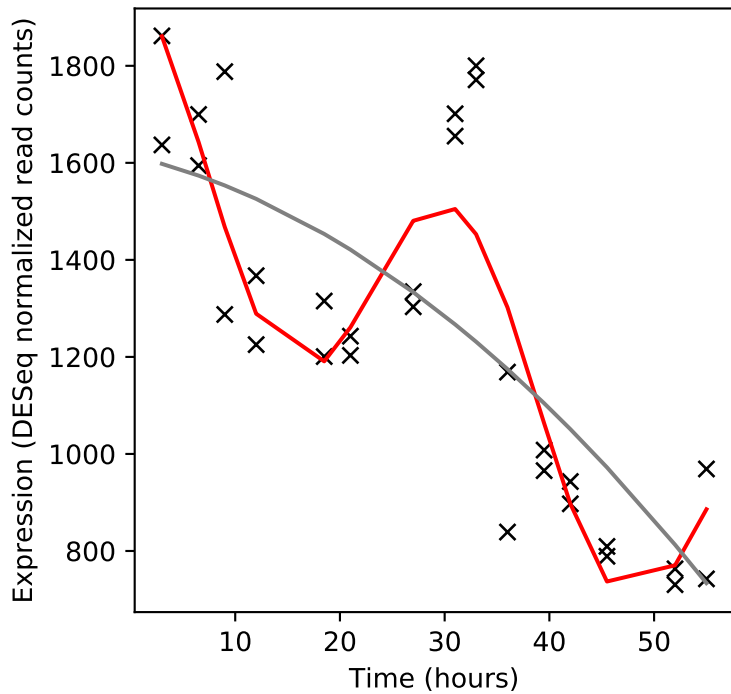
Rv0349/-



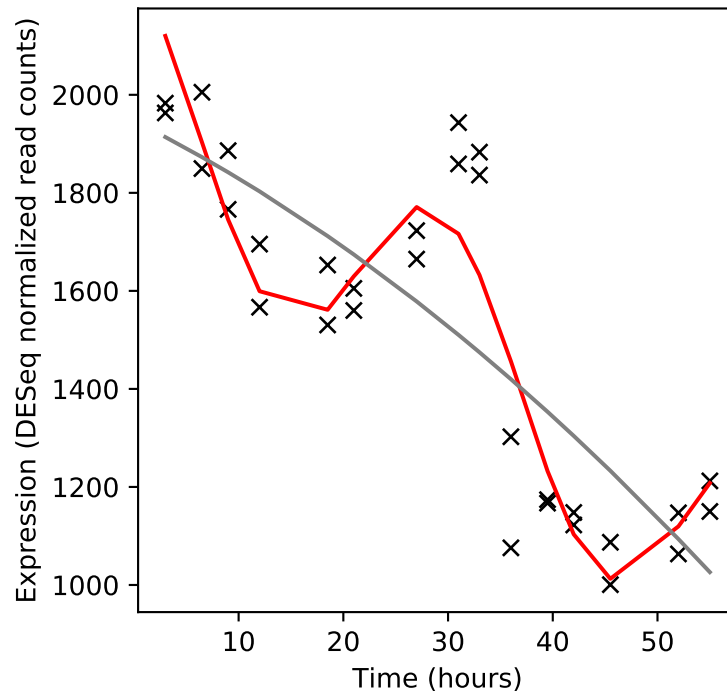
Rv0350/dnaK



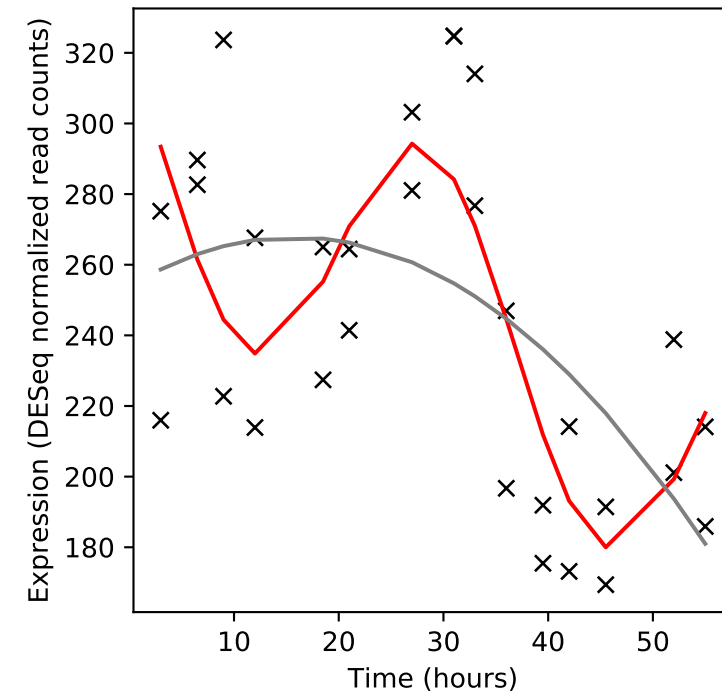
Rv0351/grpE



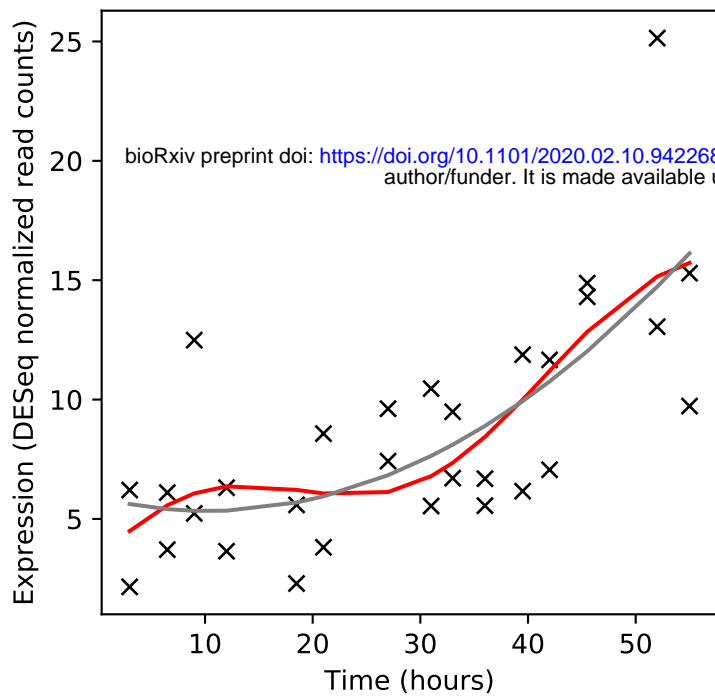
Rv0352/dnaJ1



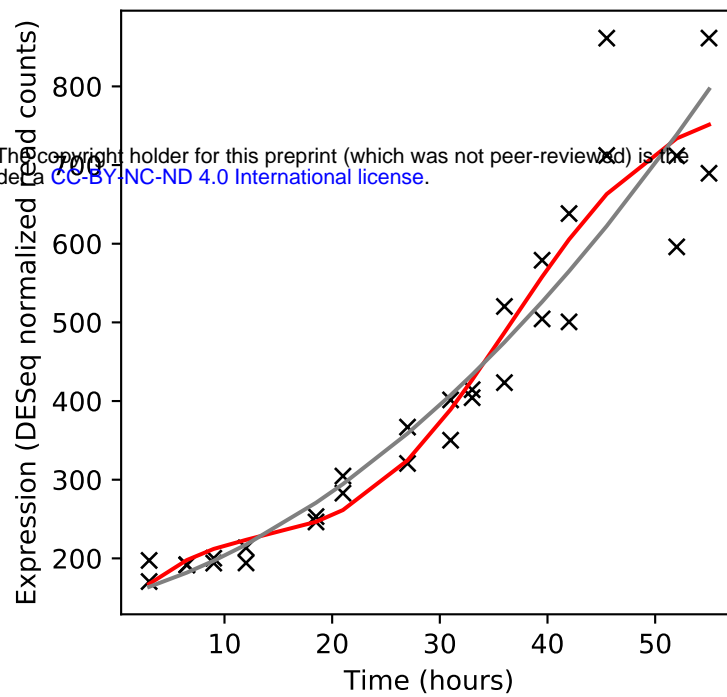
Rv0353/hspR



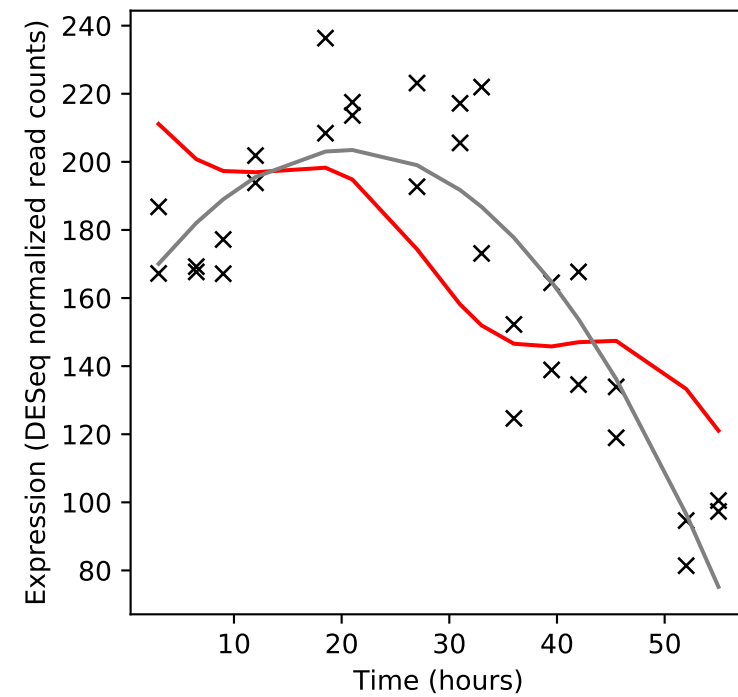
Rv0354c/PPE7



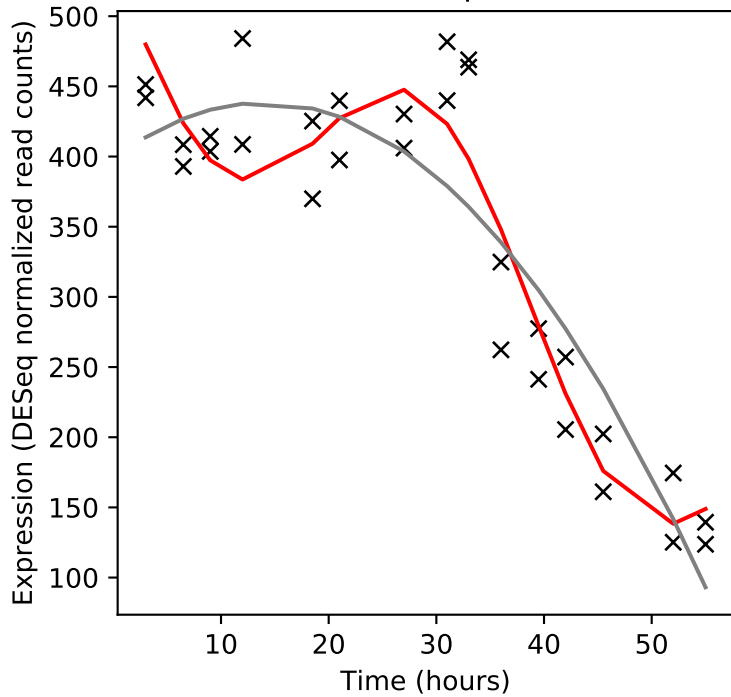
Rv0355c/PPE8



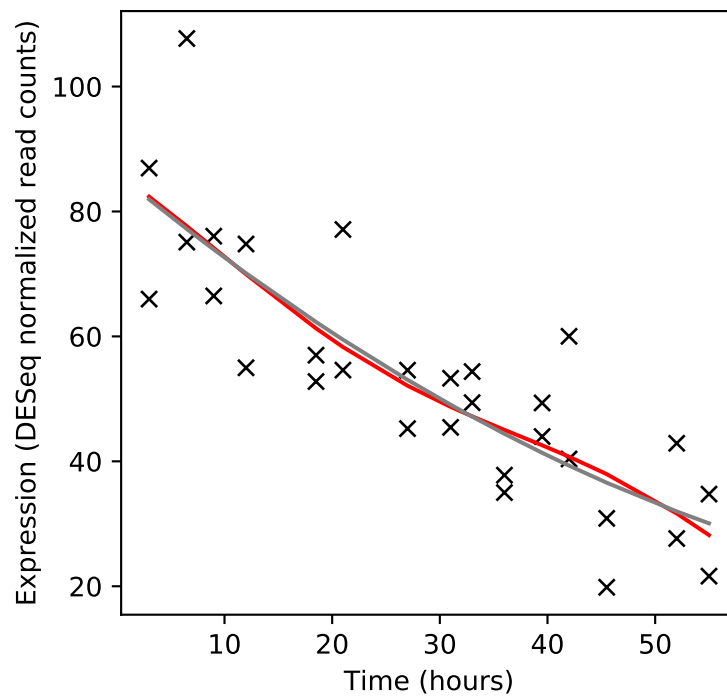
Rv0356c/-



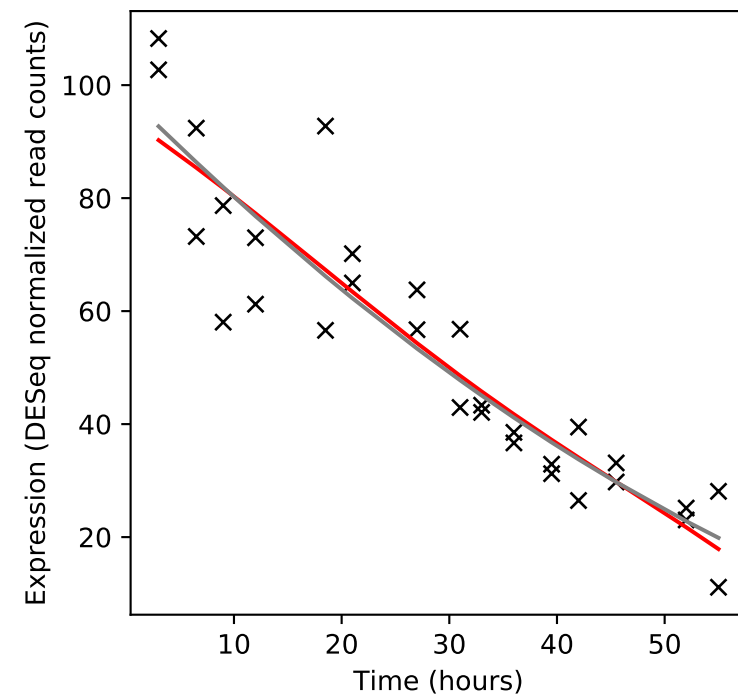
Rv0357c/purA



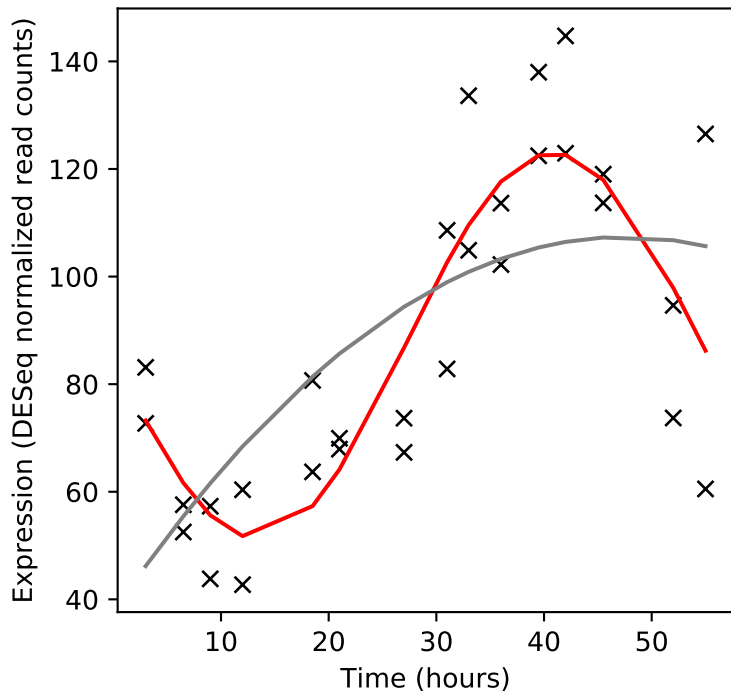
Rv0358/-



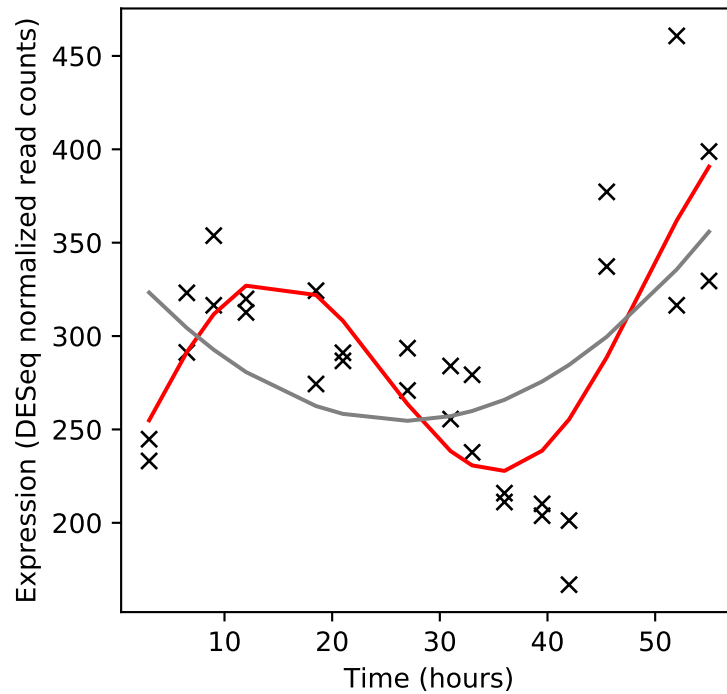
Rv0359/-



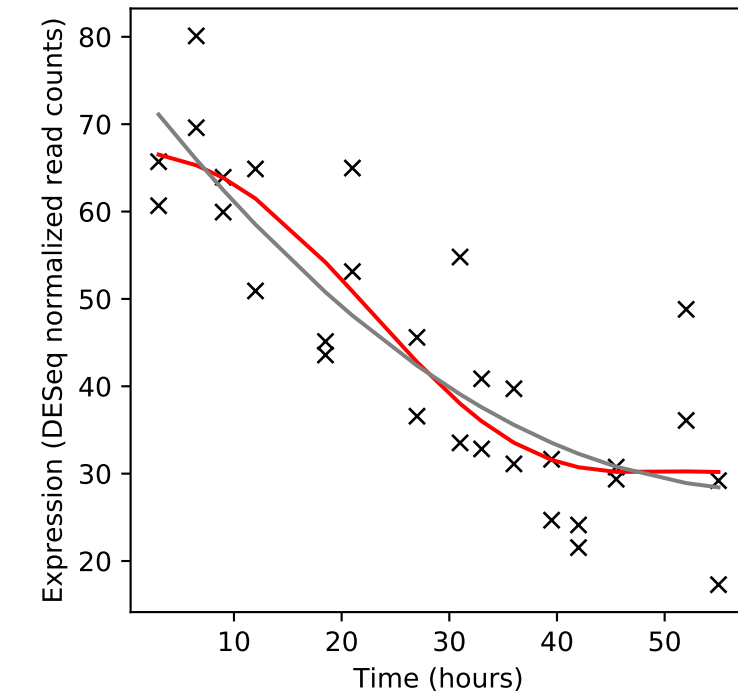
Rv0360c/-



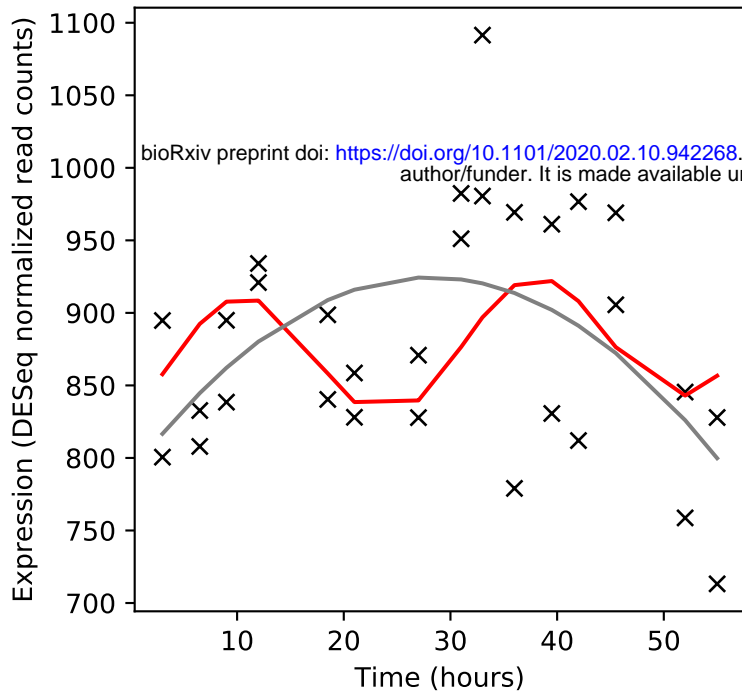
Rv0361/-



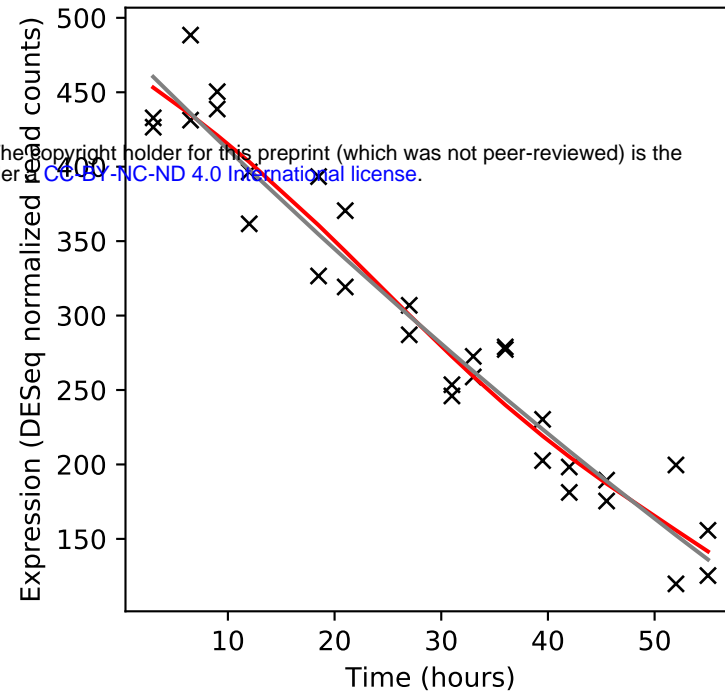
Rv0362/mgtE



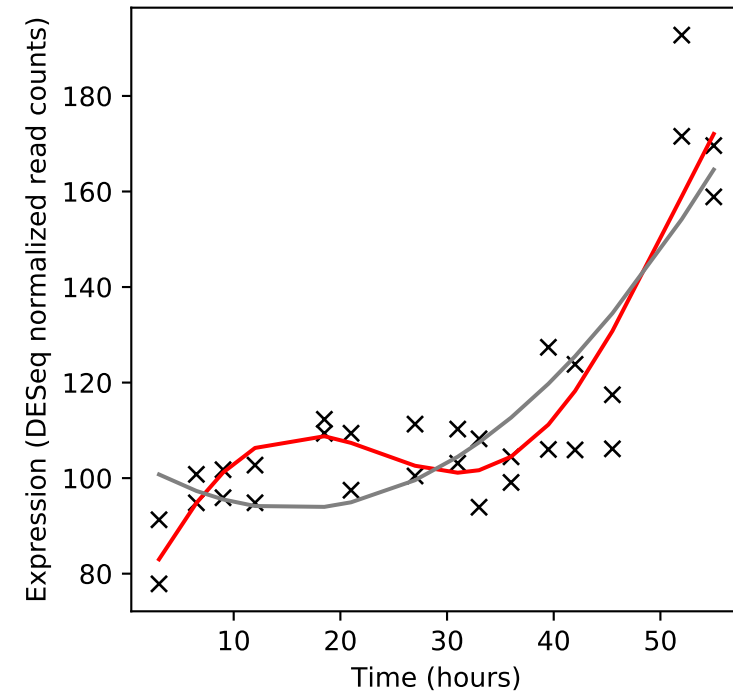
Rv0363c/fba



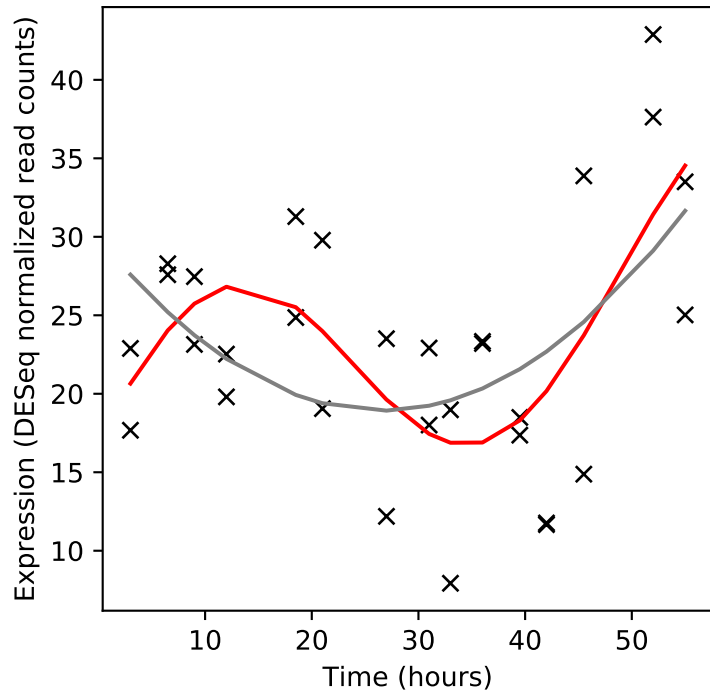
Rv0364/-



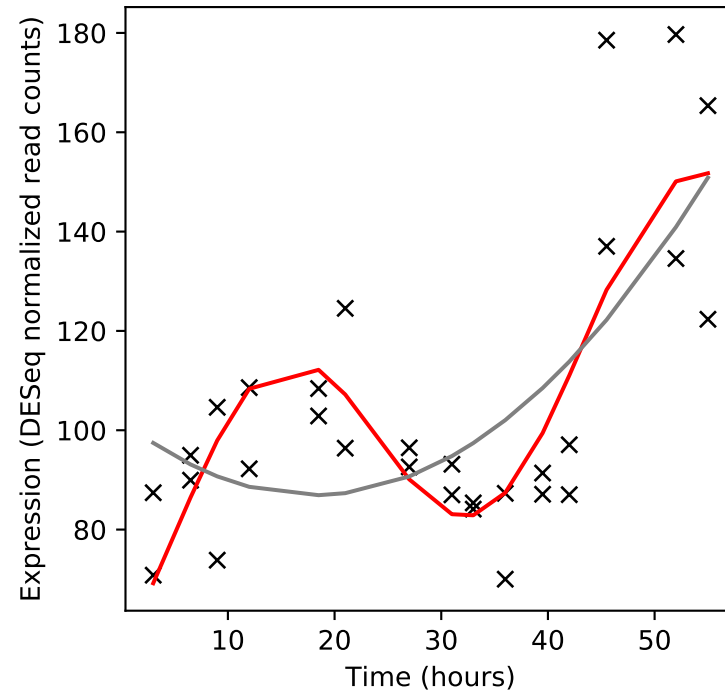
Rv0365c/-



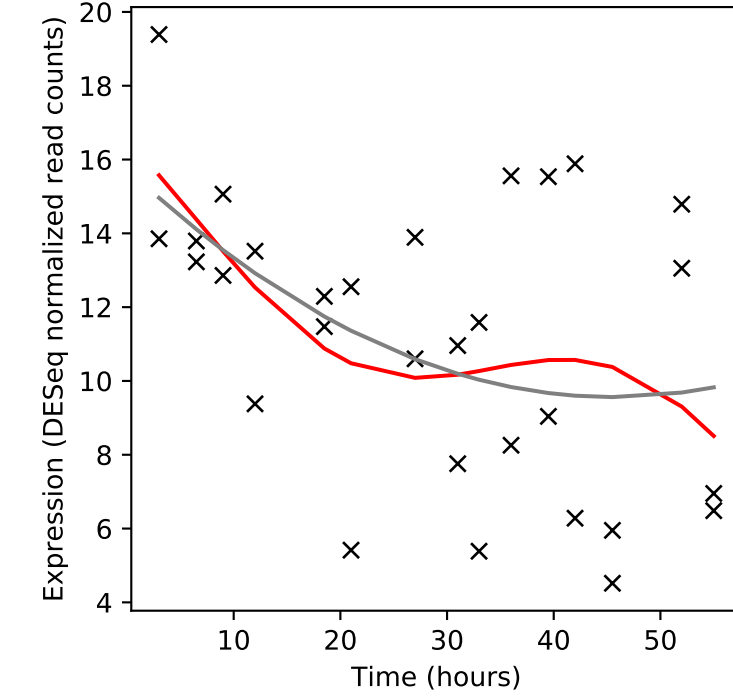
Rv0366c/-



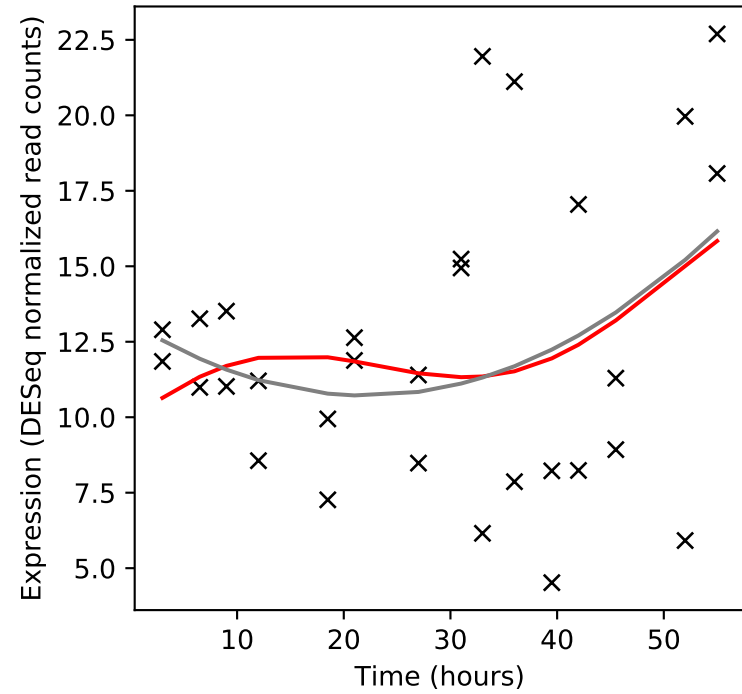
Rv0367c/-



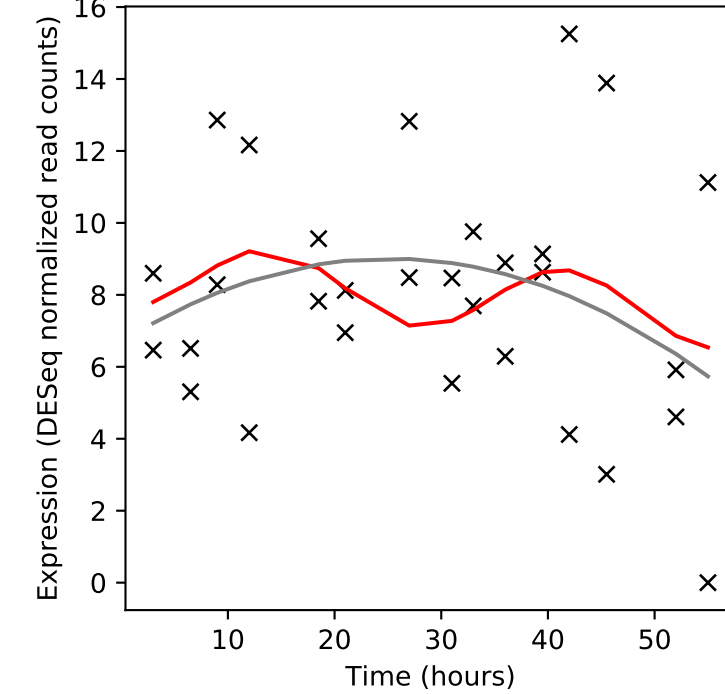
Rv0368c/-



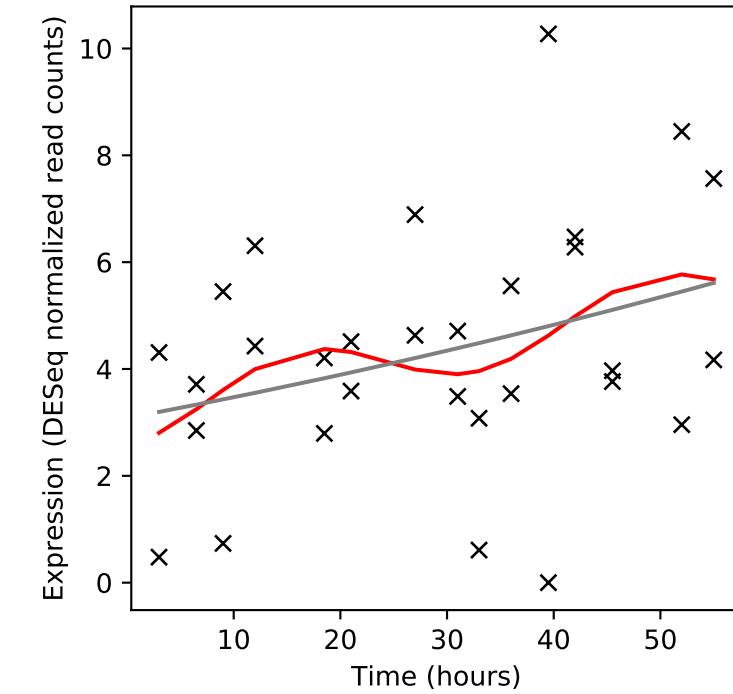
Rv0369c/-



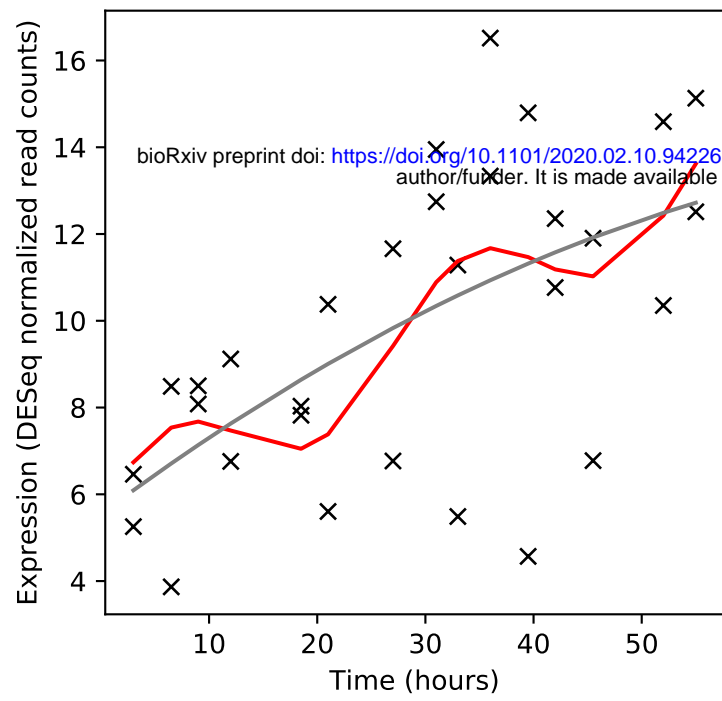
Rv0370c/-



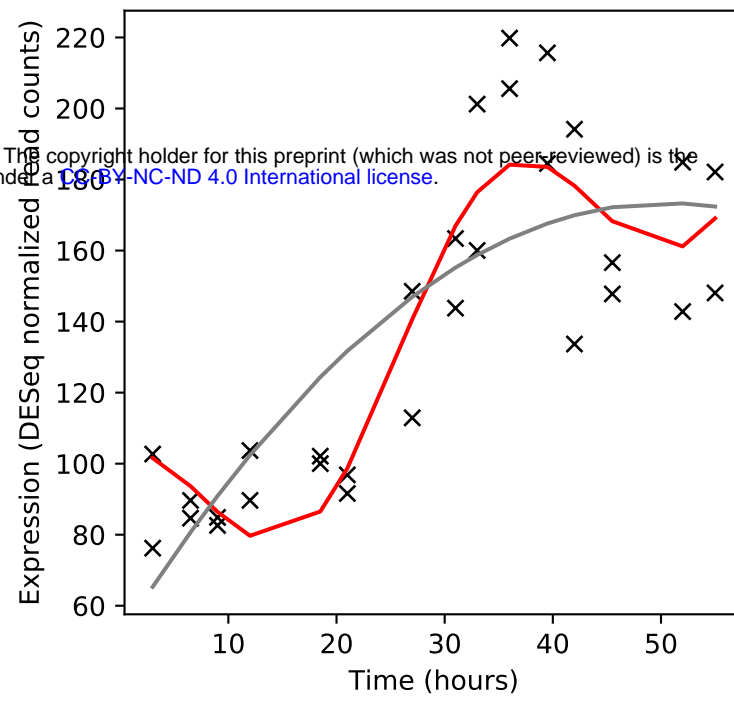
Rv0371c/-



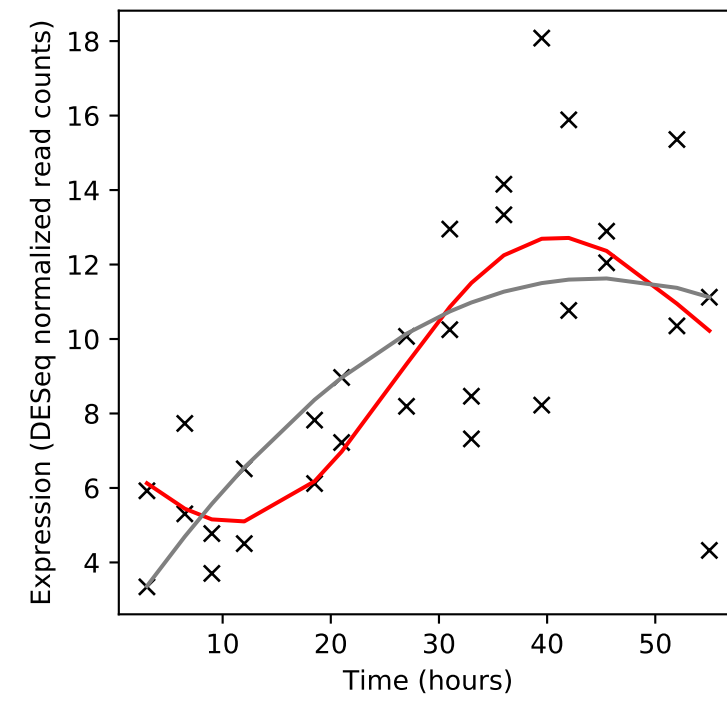
Rv0372c/-



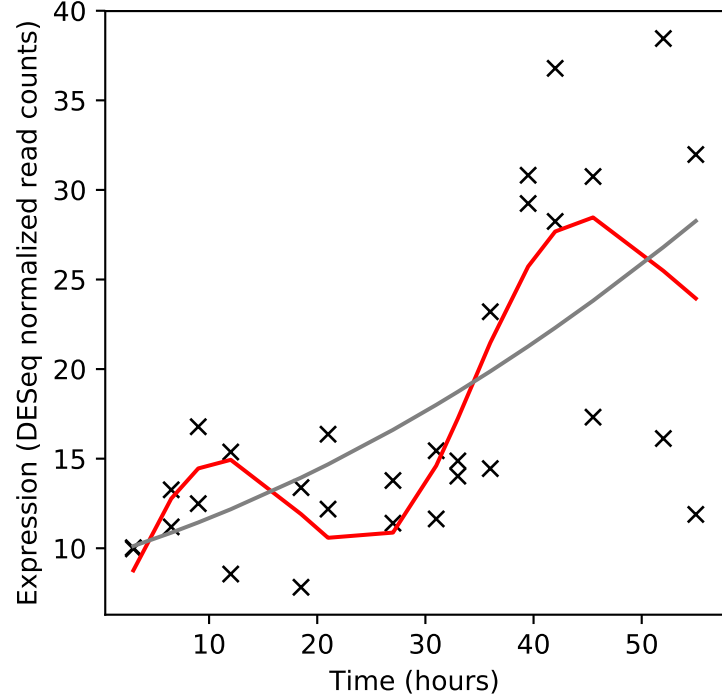
Rv0373c/-



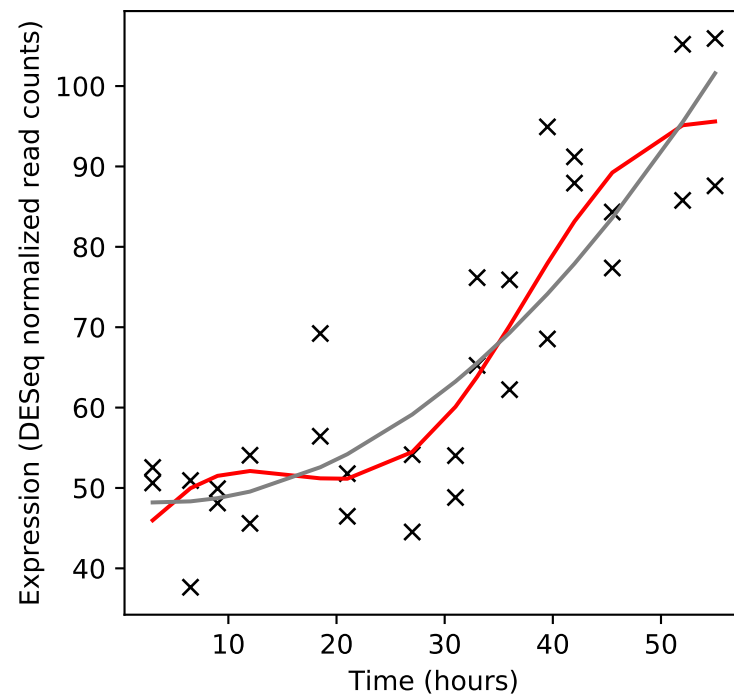
Rv0374c/-



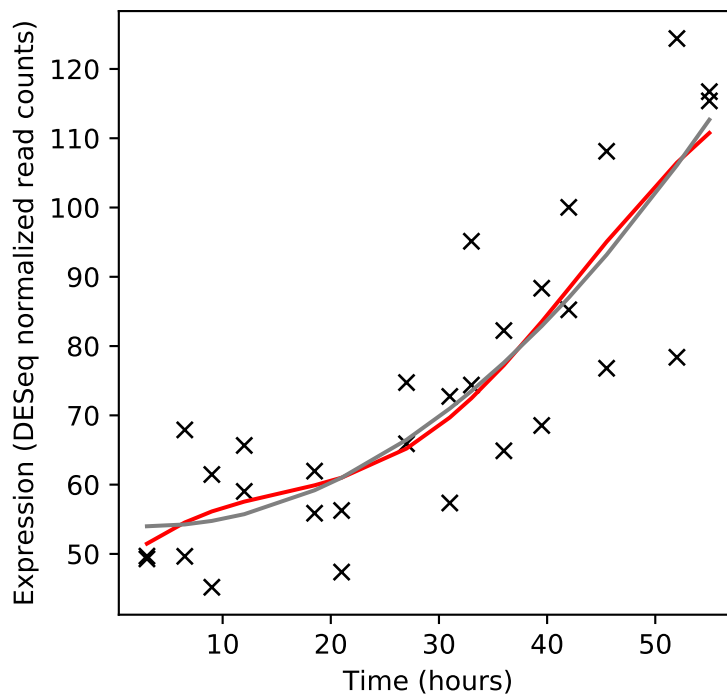
Rv0375c/-



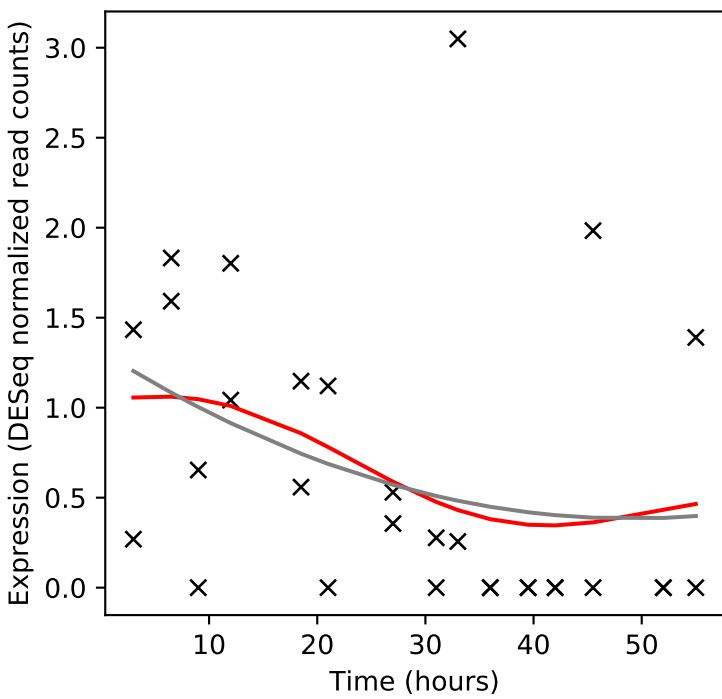
Rv0376c/-



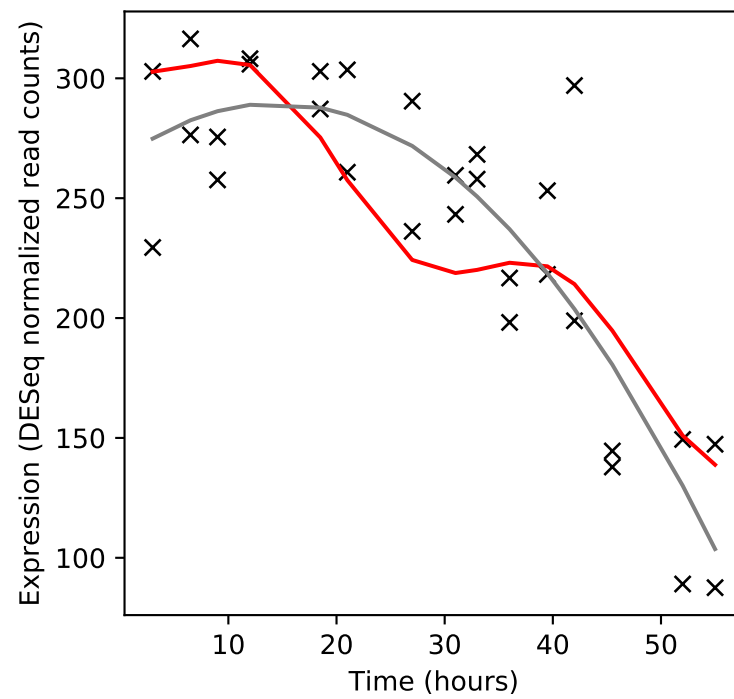
Rv0377/-



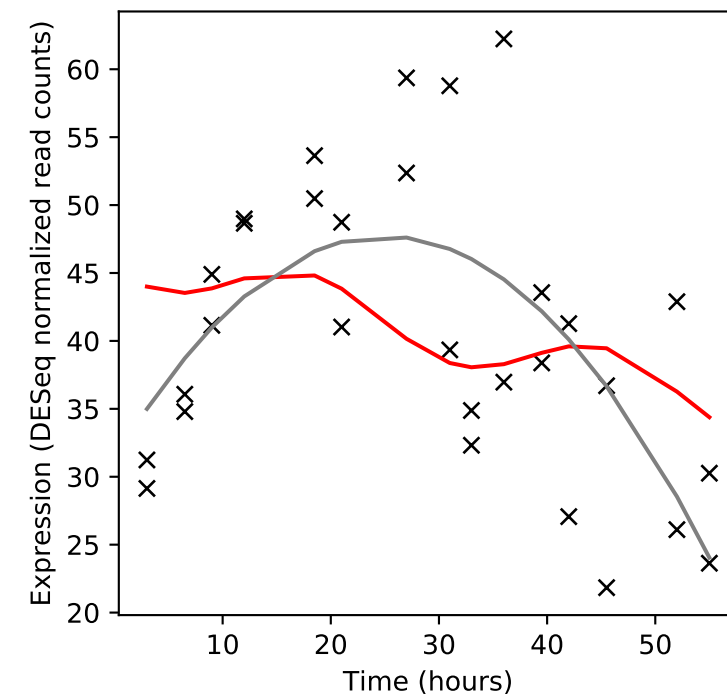
Rv0378/-



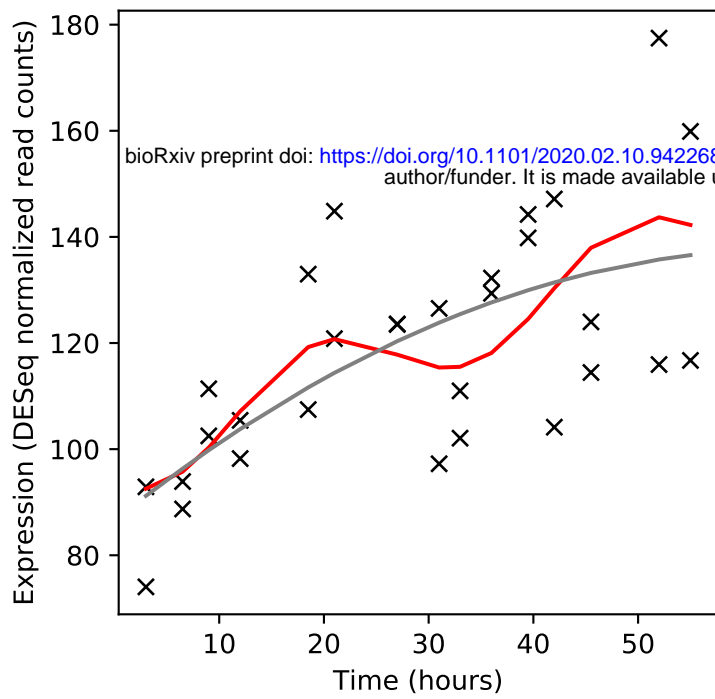
Rv0379/secE2



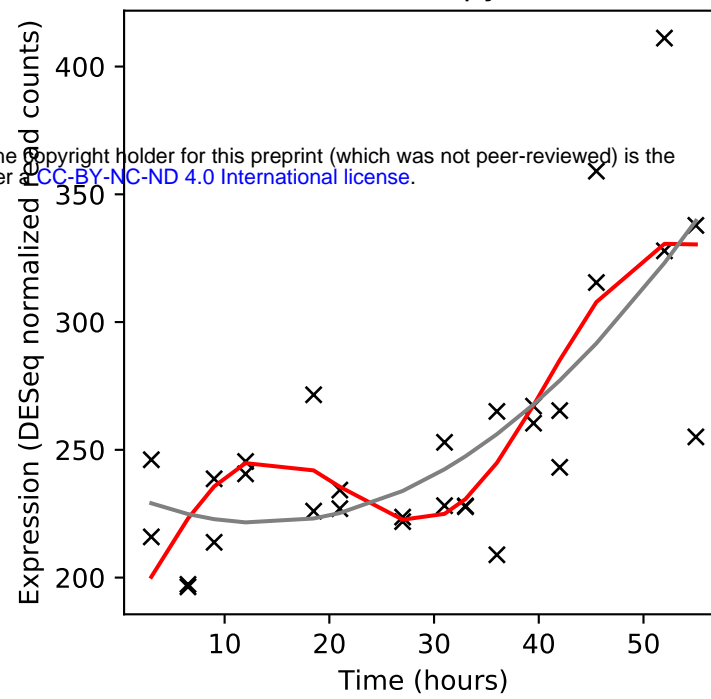
Rv0380c/-



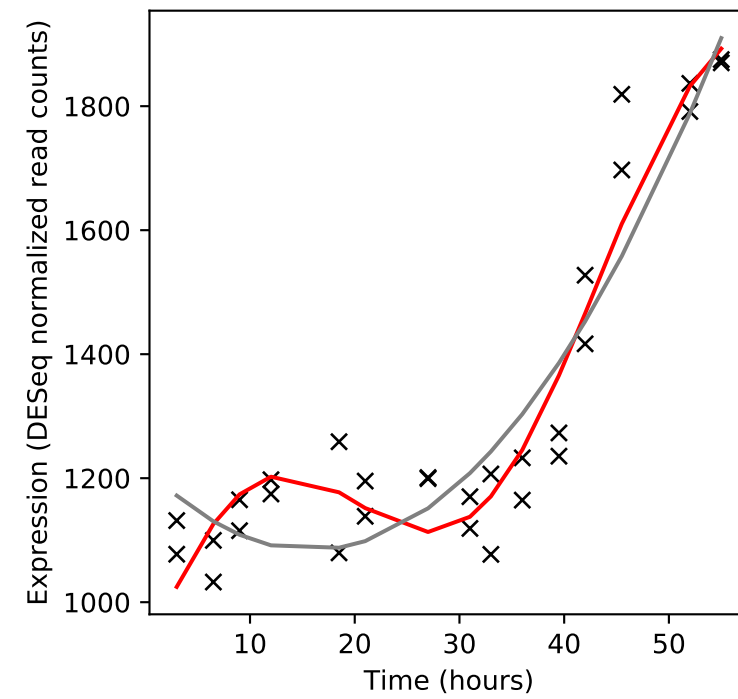
Rv0381c/-



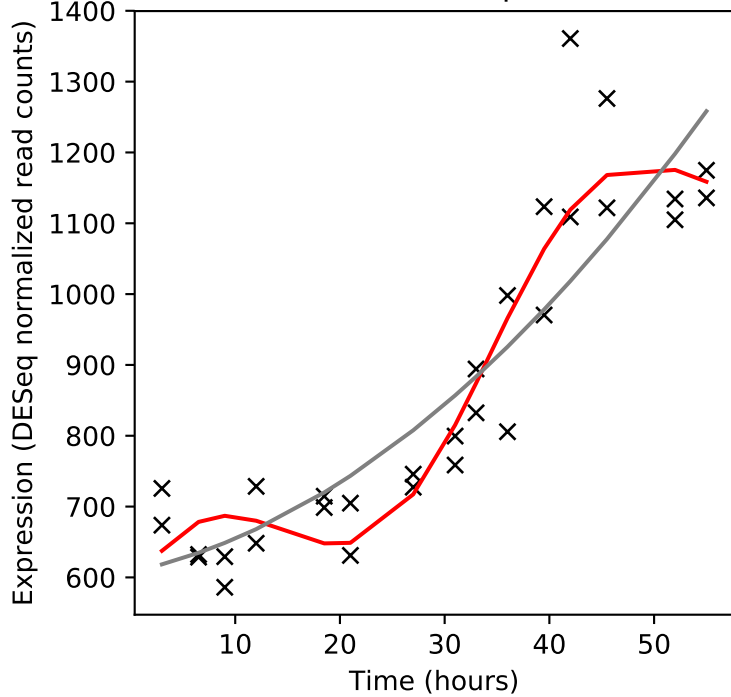
Rv0382c/pyrE



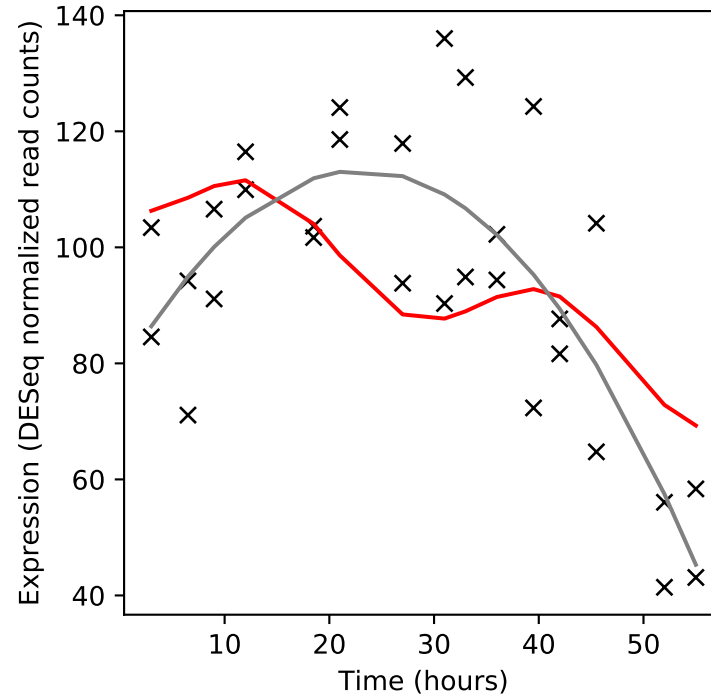
Rv0383c/-



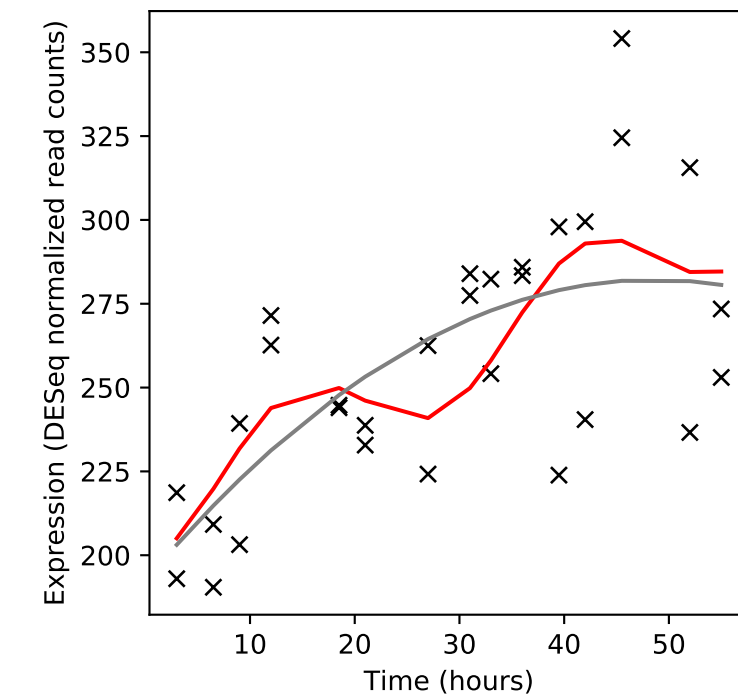
Rv0384c/clpB



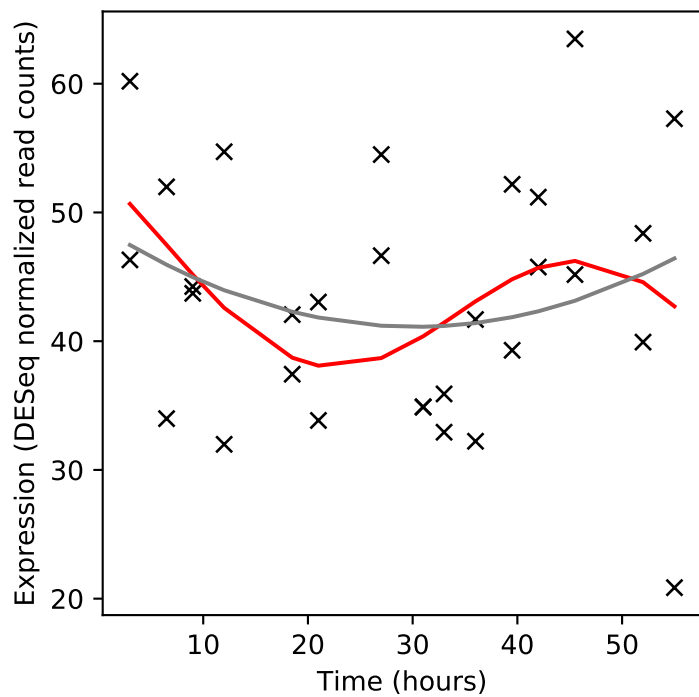
Rv0385/-



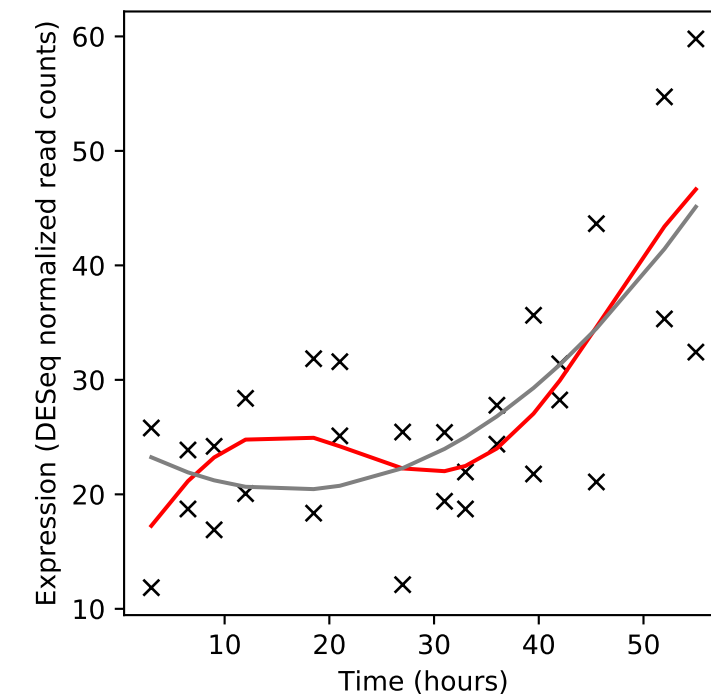
Rv0386/-



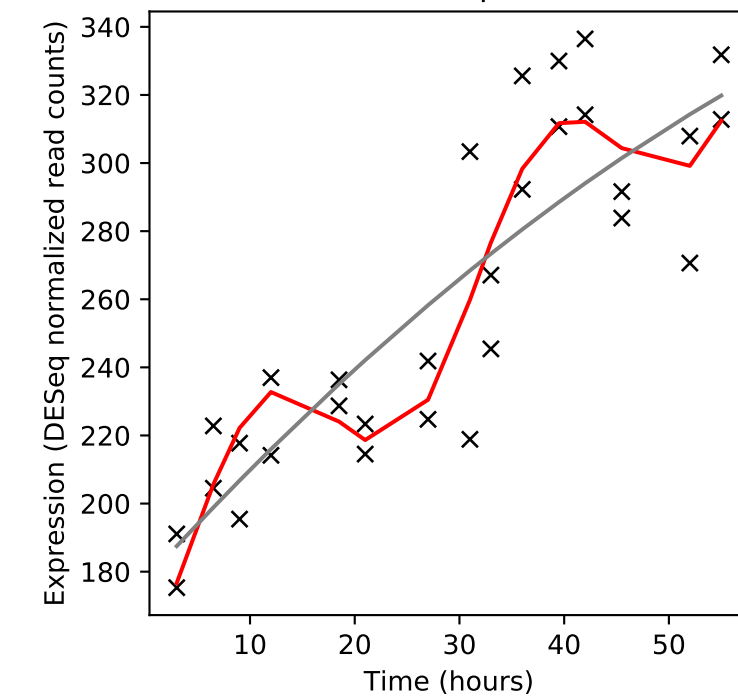
Rv0387c/-



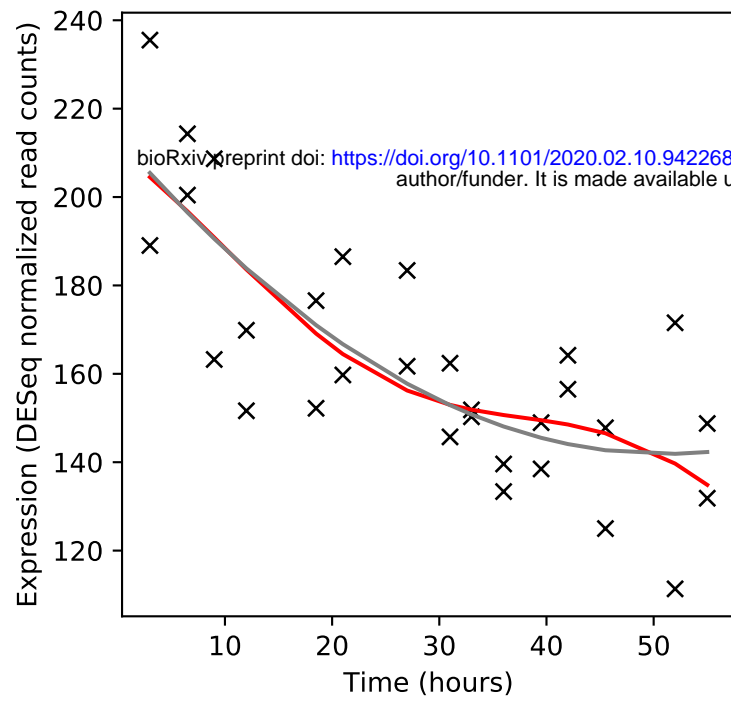
Rv0388c/PPE9



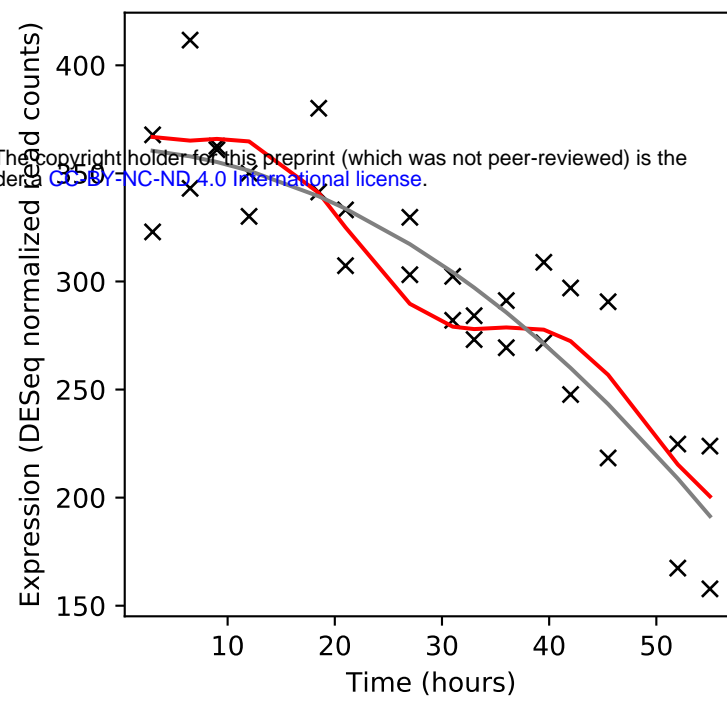
Rv0389/purT



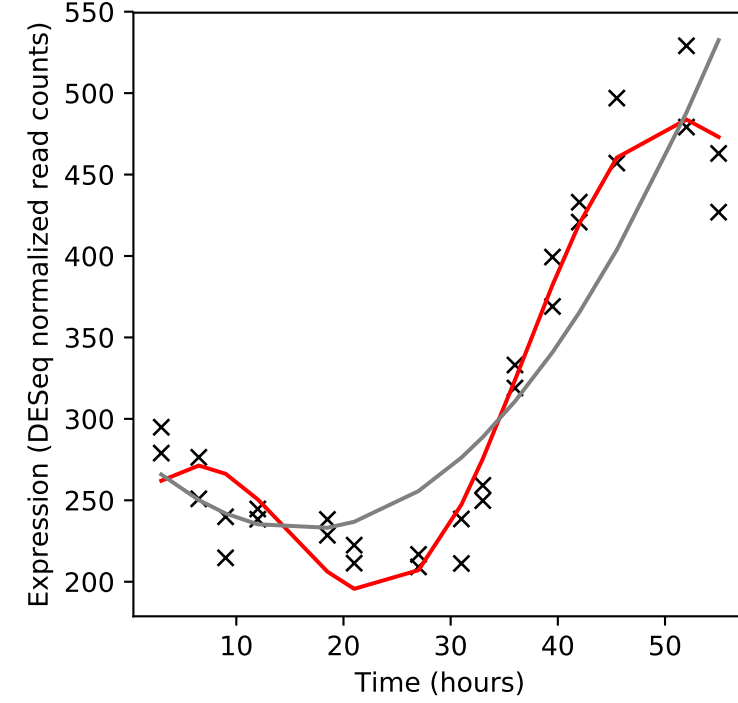
Rv0390/-



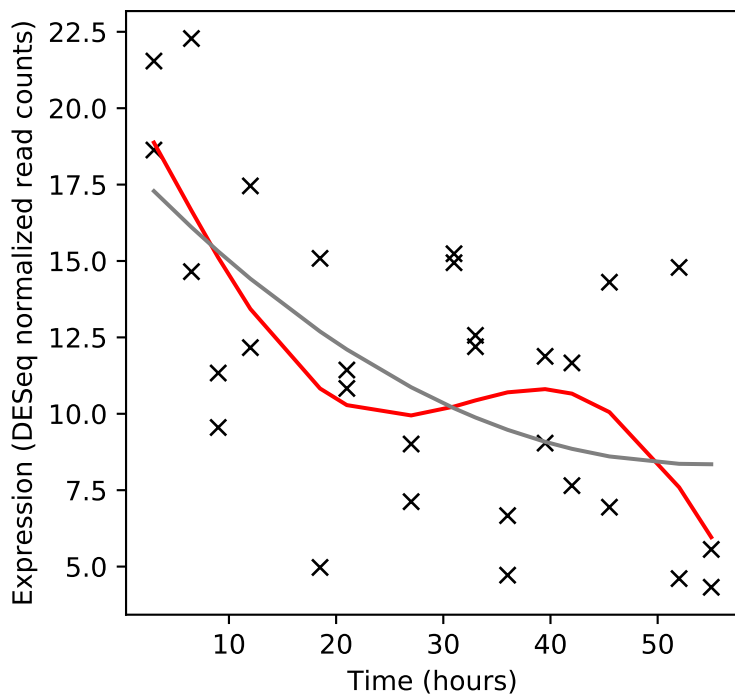
Rv0391/metZ



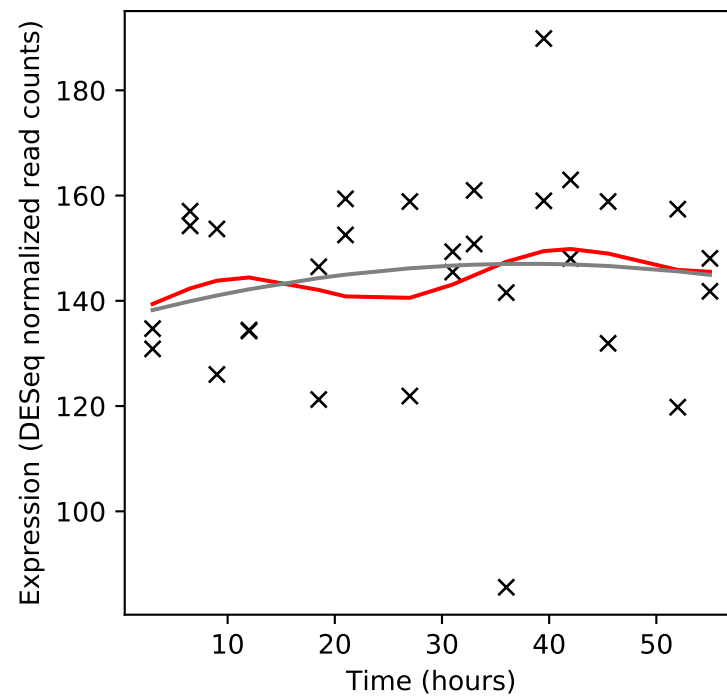
Rv0392c/ndhA



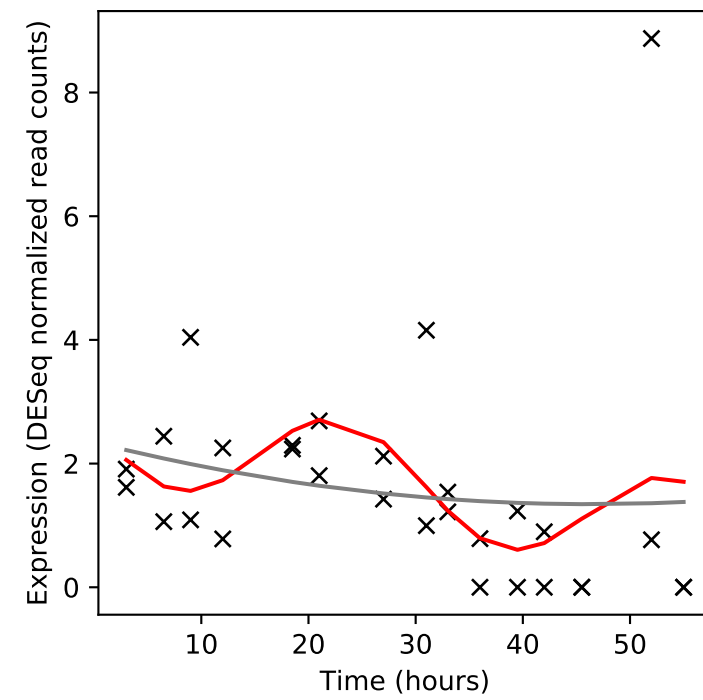
Rv0393/-



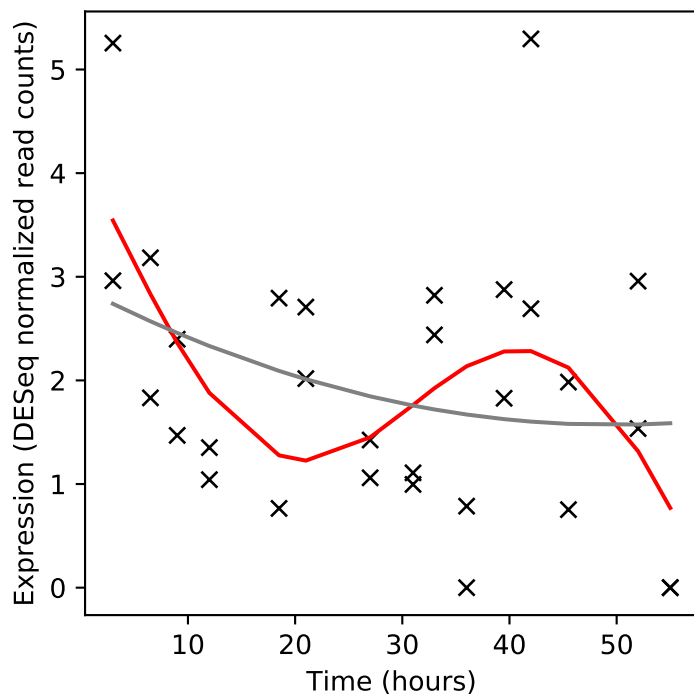
Rv0394c/-



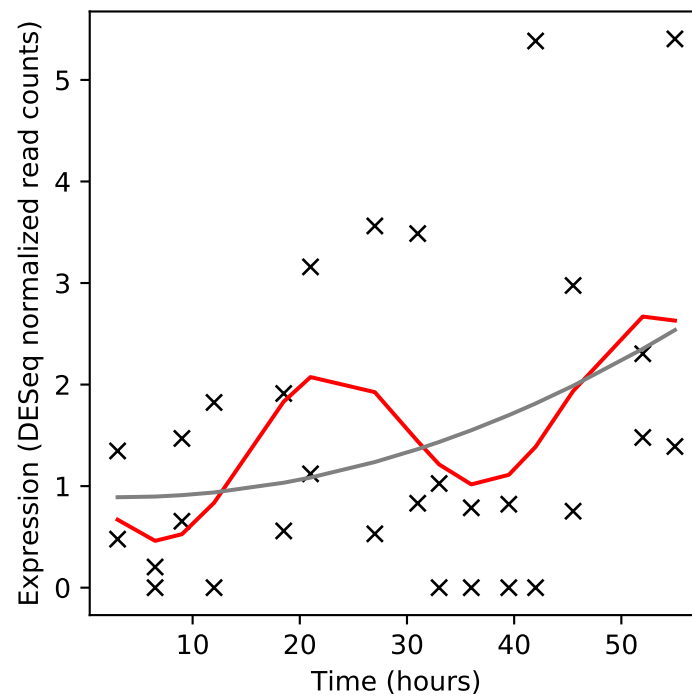
Rv0395/-



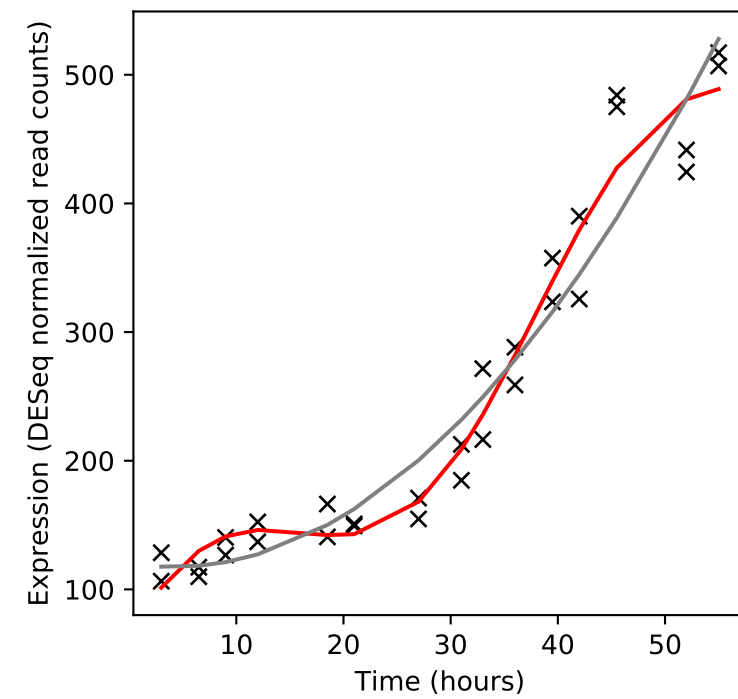
Rv0396/-



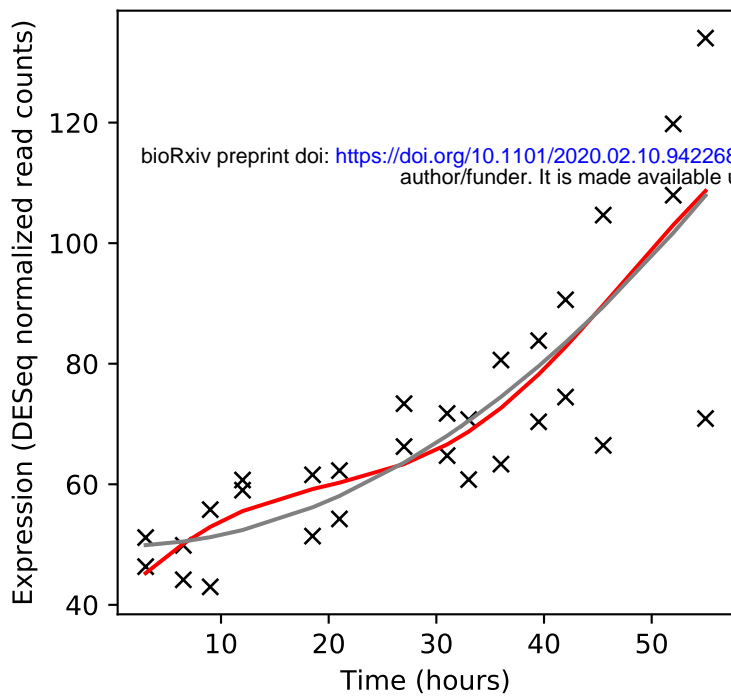
Rv0397/-



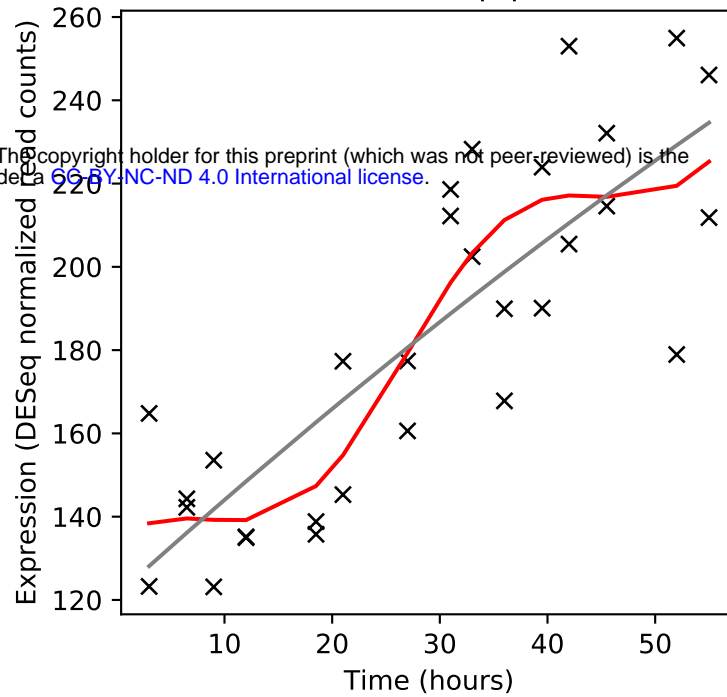
Rv0397A/-



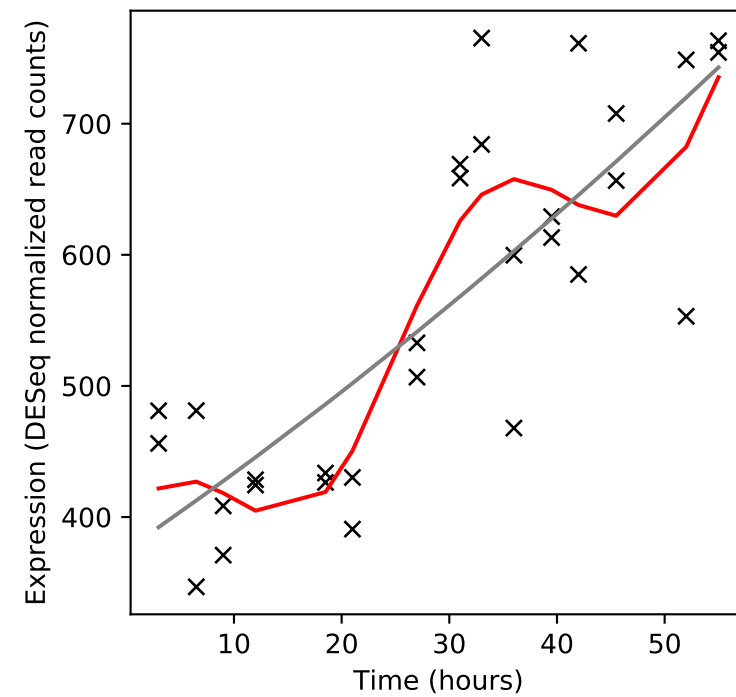
Rv0398c/-



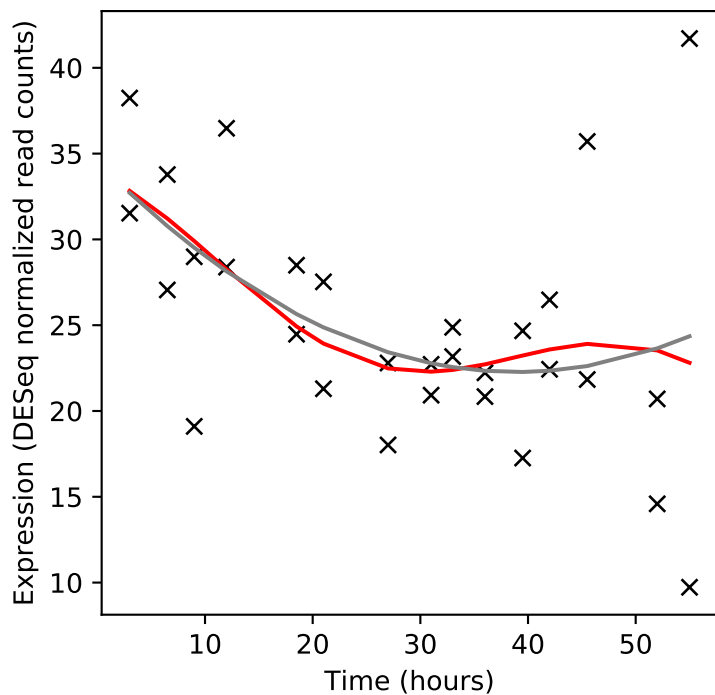
Rv0399c/lpqK



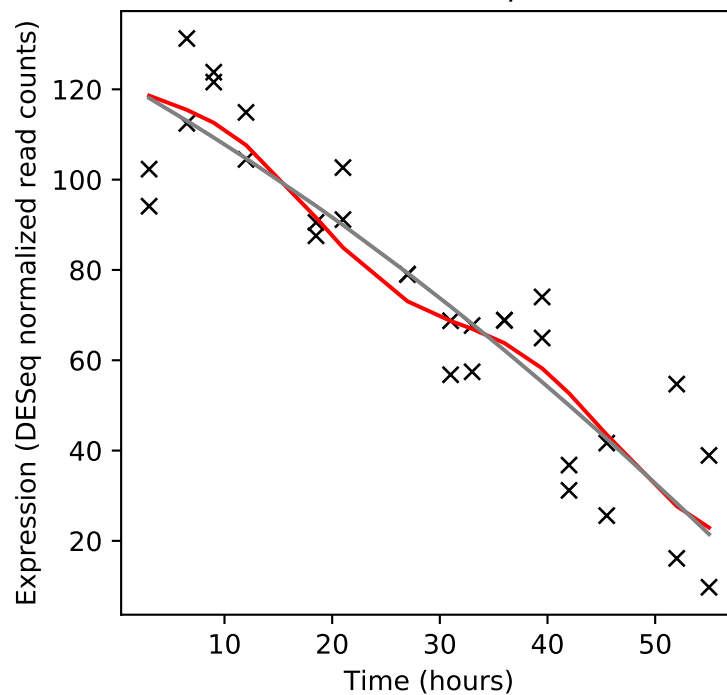
Rv0400c/fadE7



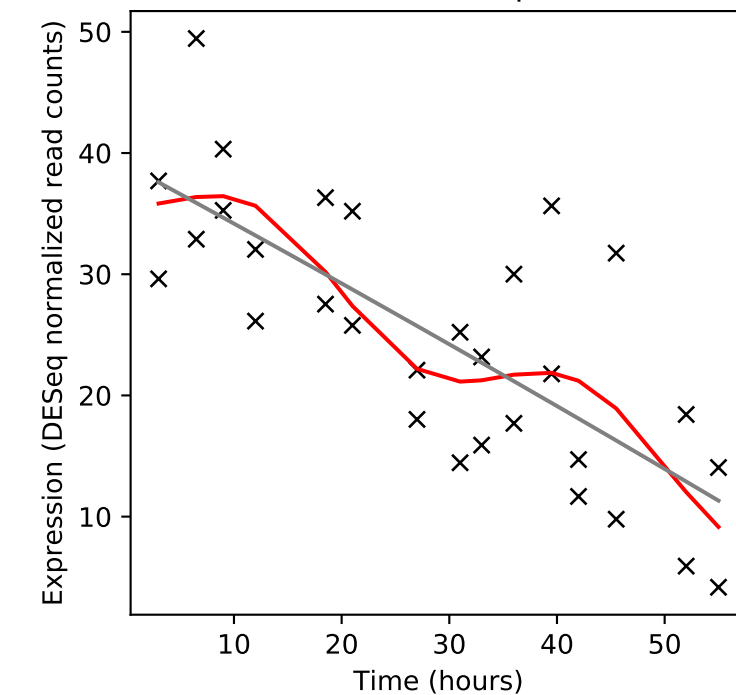
Rv0401/-



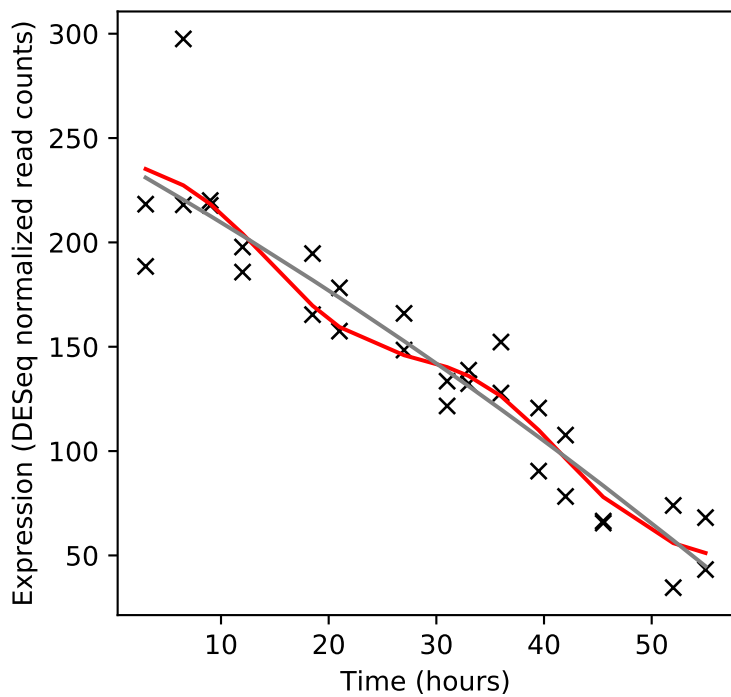
Rv0402c/mmpL1



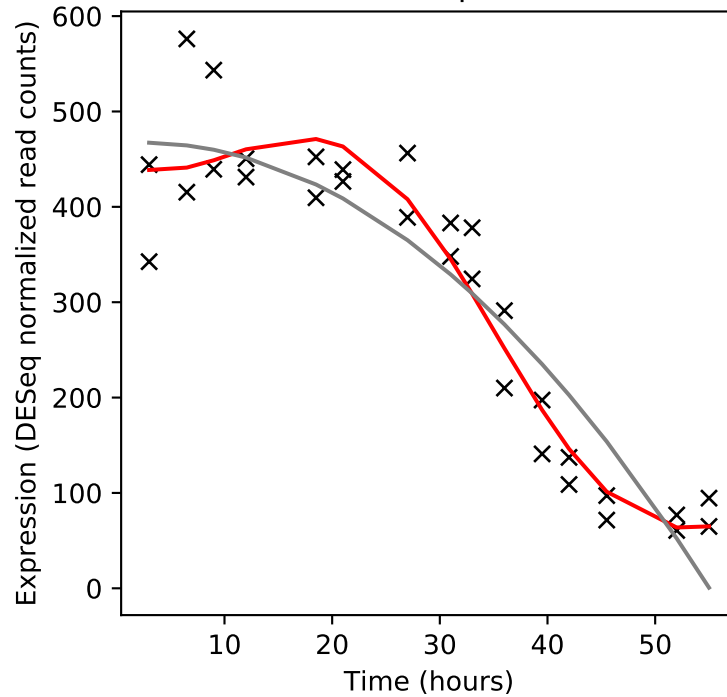
Rv0403c/mmpS1



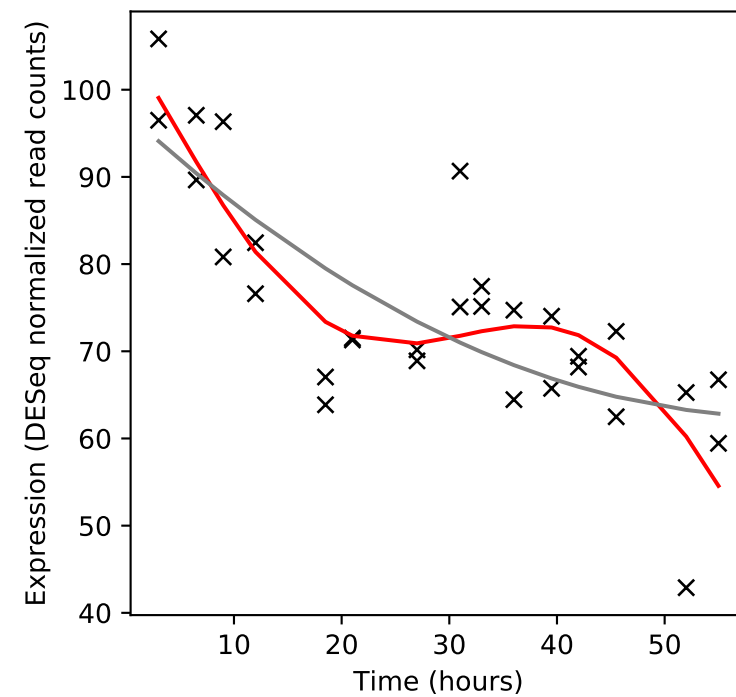
Rv0404/fadD30



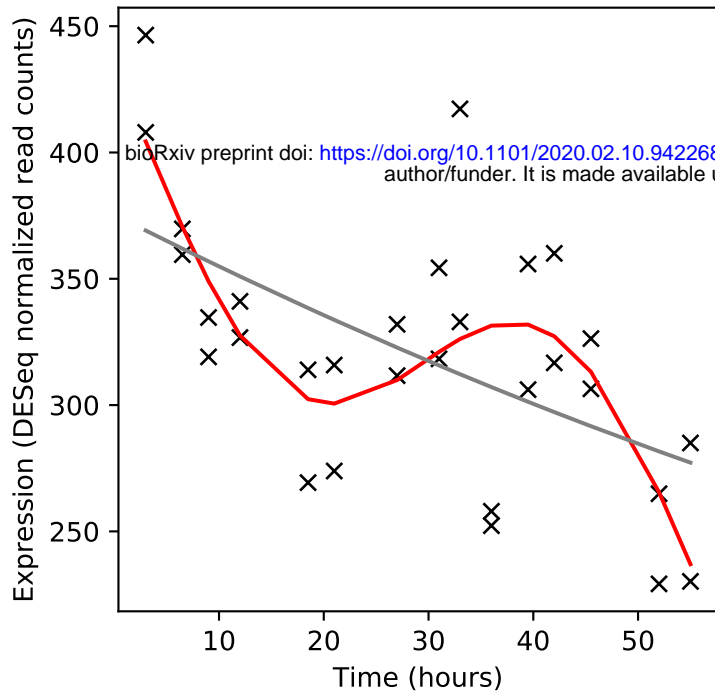
Rv0405/pks6



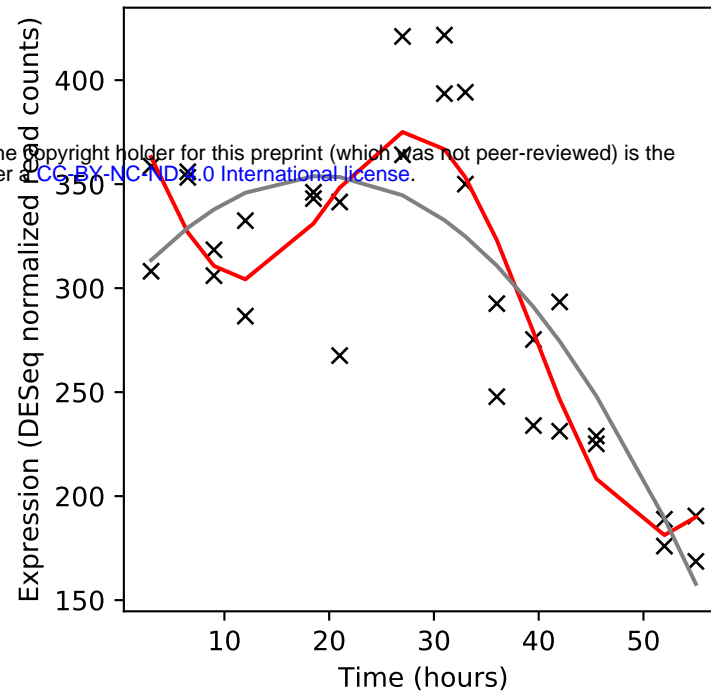
Rv0406c/-



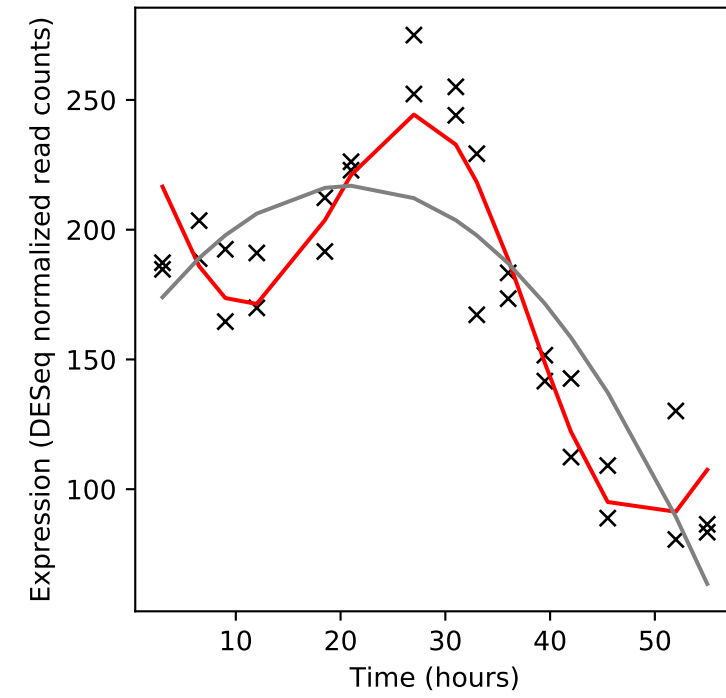
Rv0407/fgd1



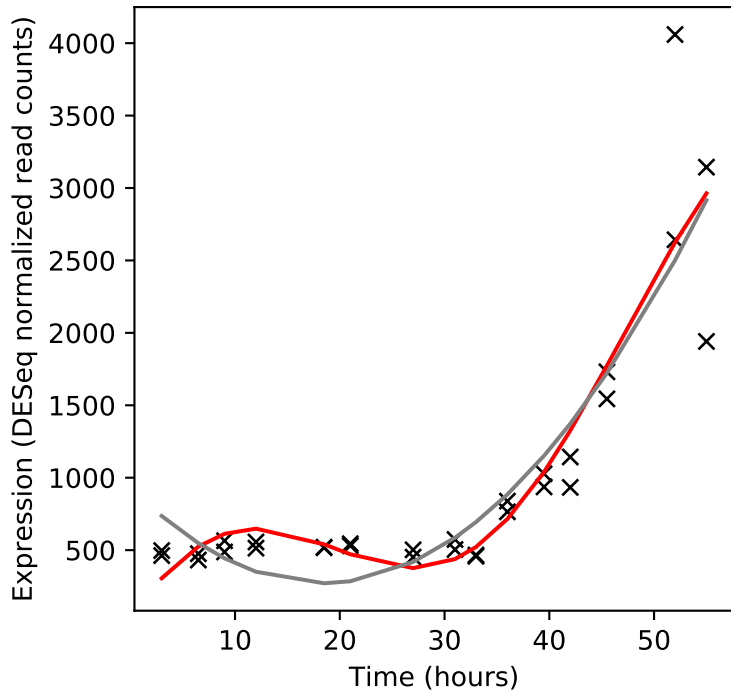
Rv0408/pta



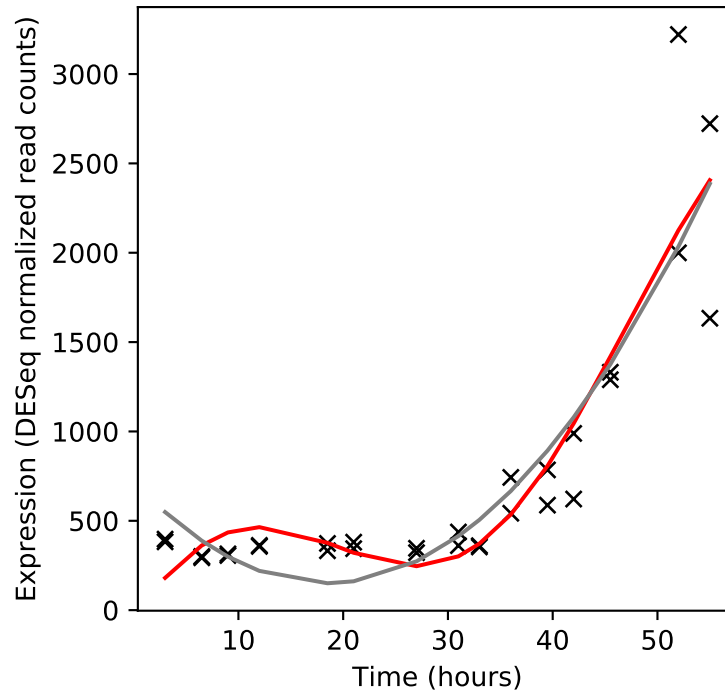
Rv0409/ackA



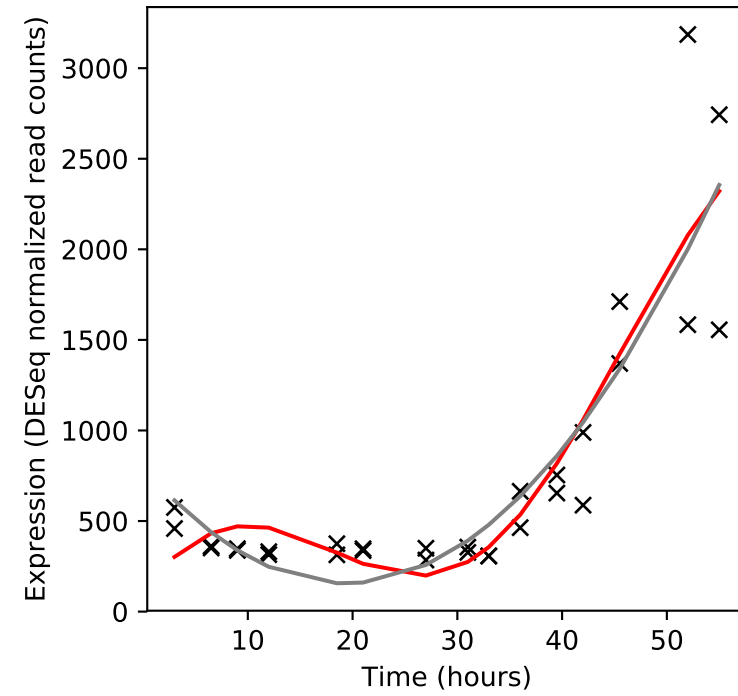
Rv0410c/pknG



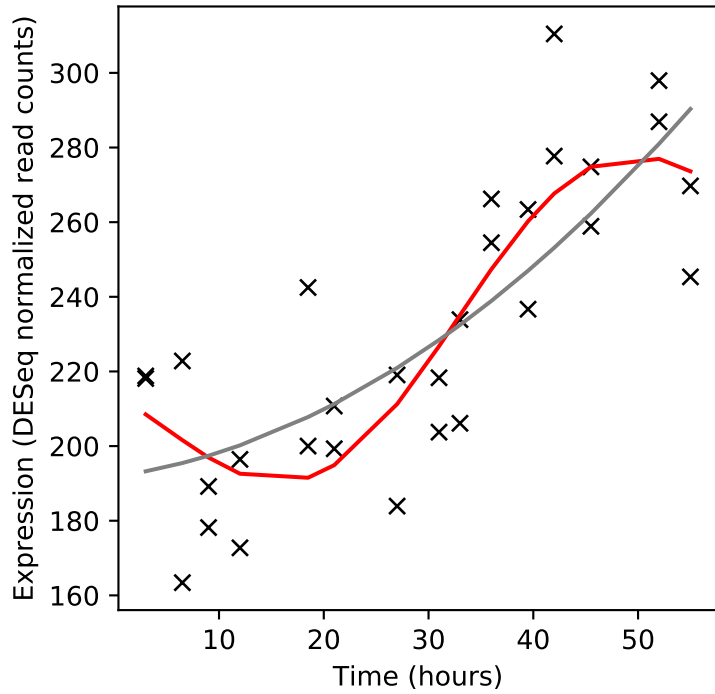
Rv0411c/glnH



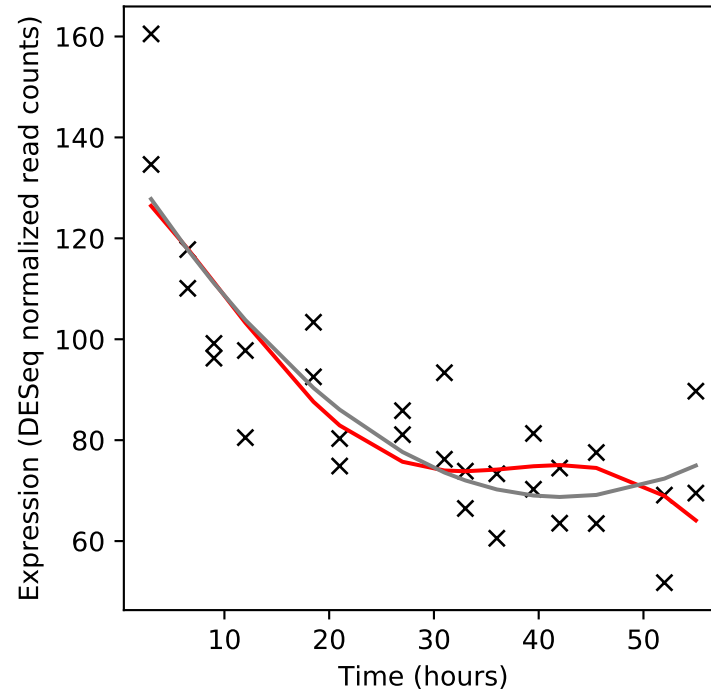
Rv0412c/-



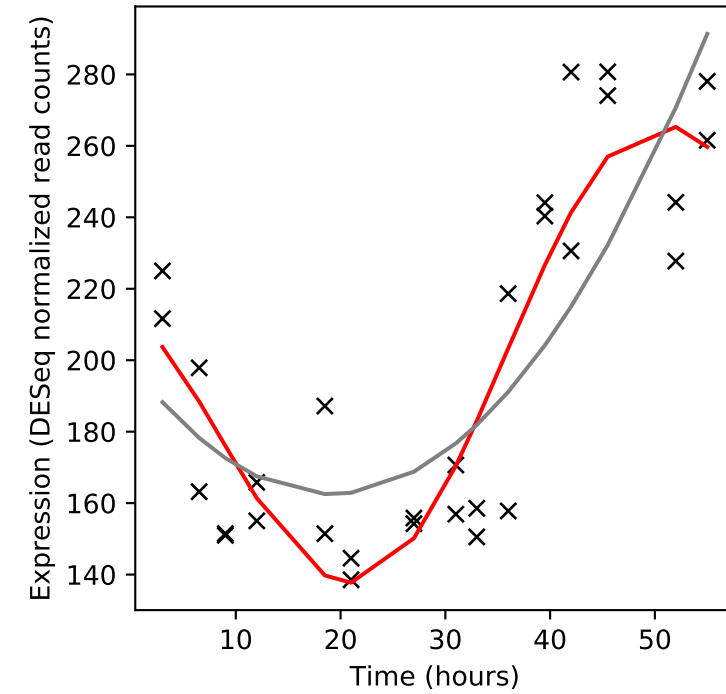
Rv0413/mutT3



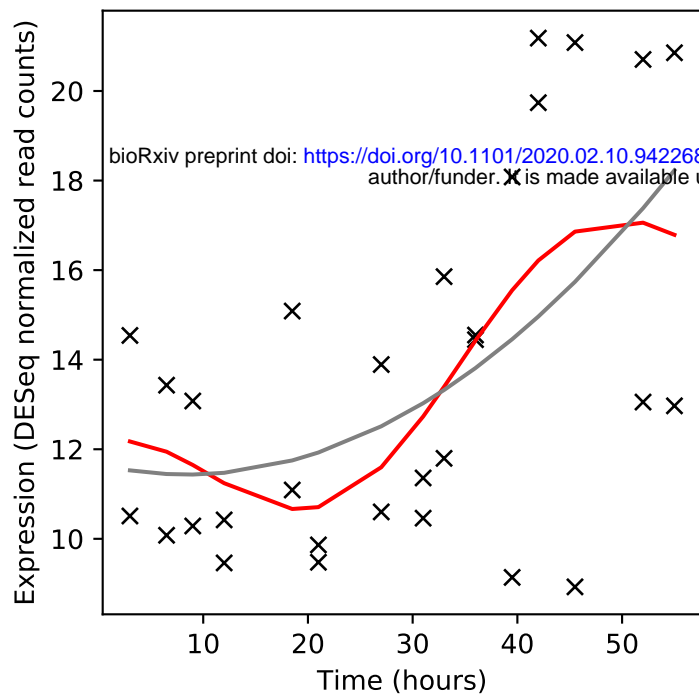
Rv0414c/thiE



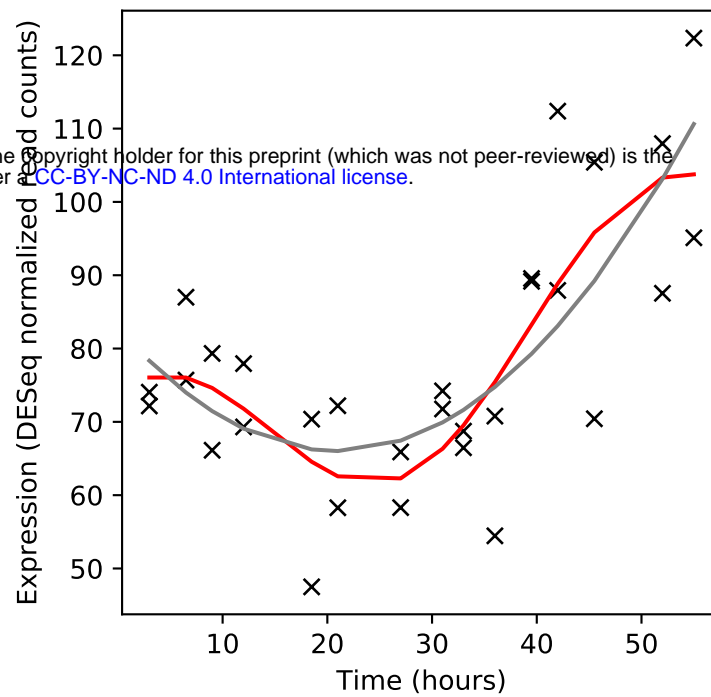
Rv0415/thiO



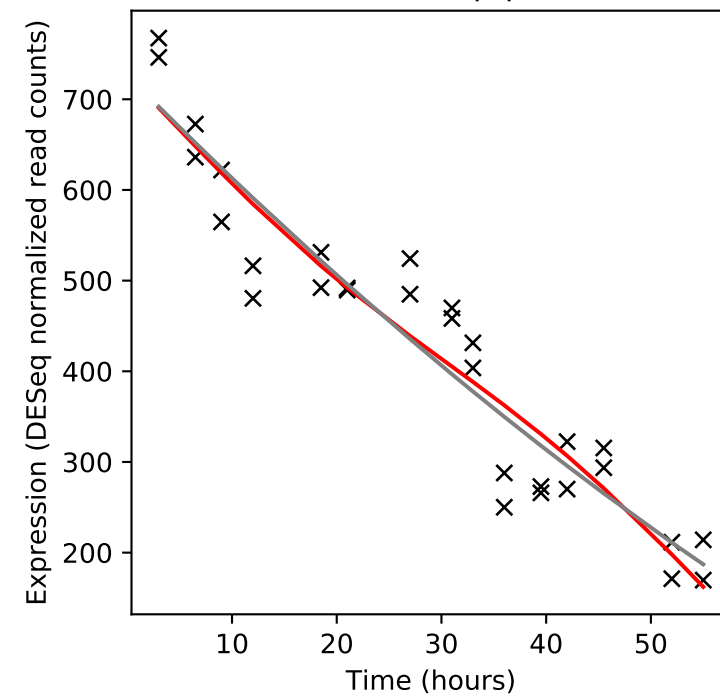
Rv0416/thiS



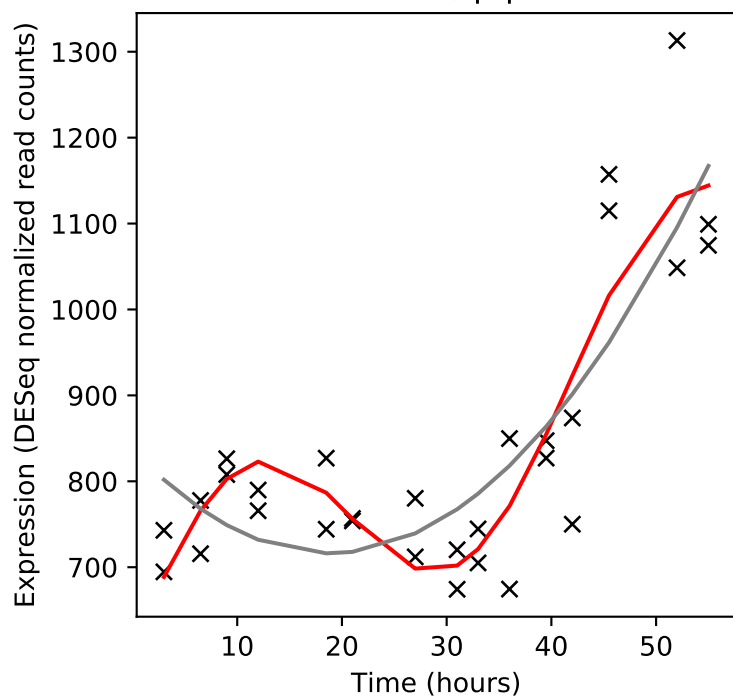
Rv0417/thiG



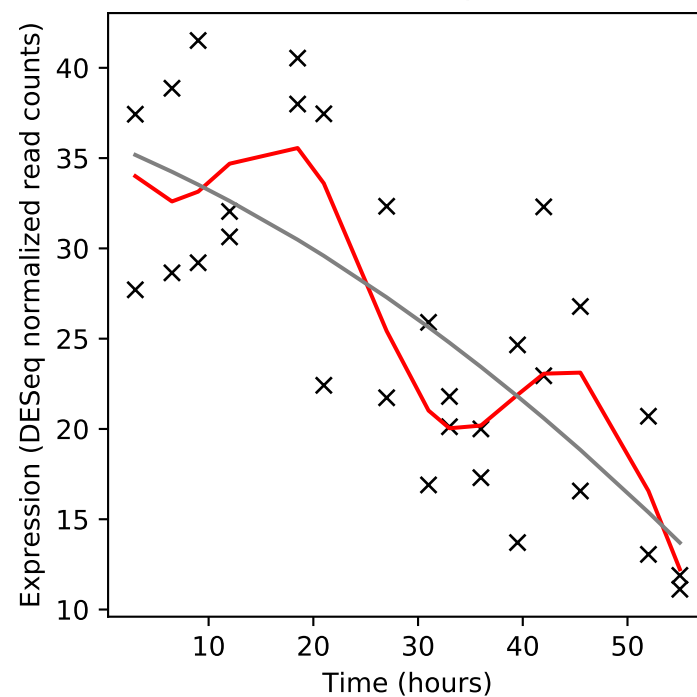
Rv0418/lpqL



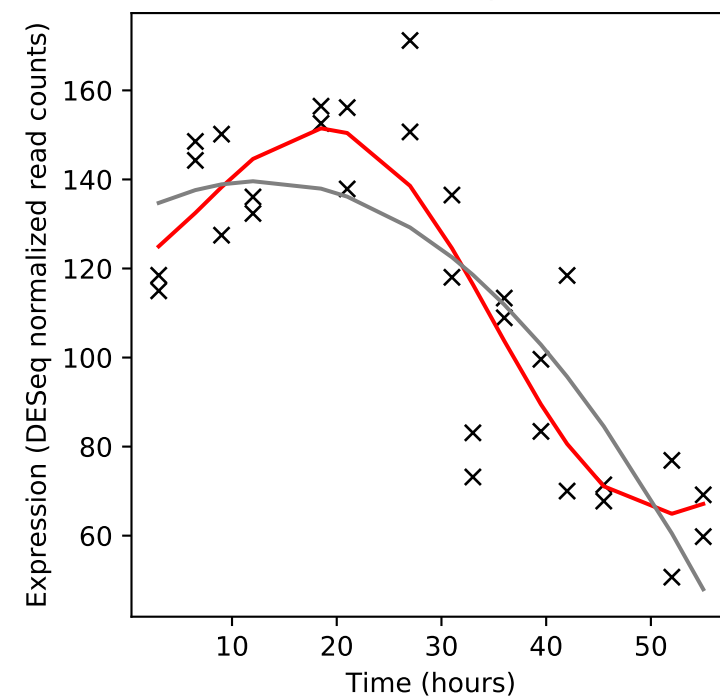
Rv0419/lpqM



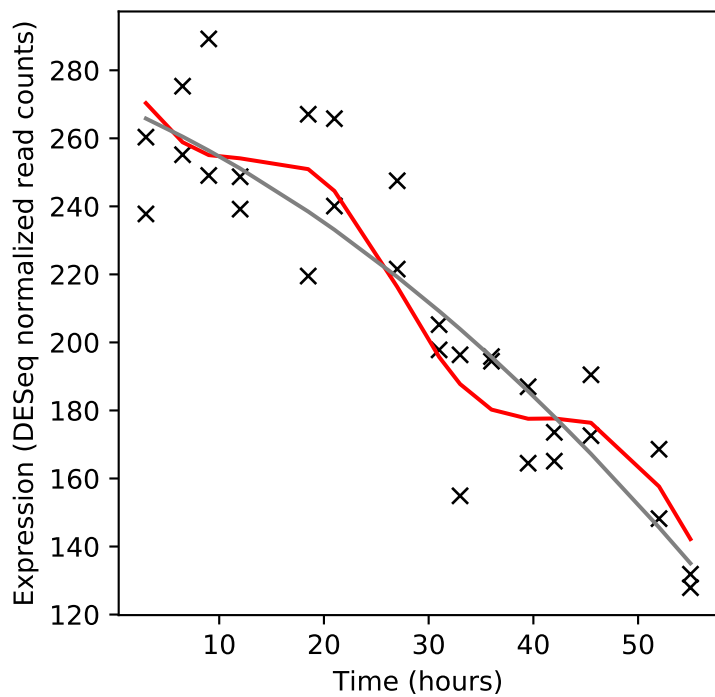
Rv0420c/-



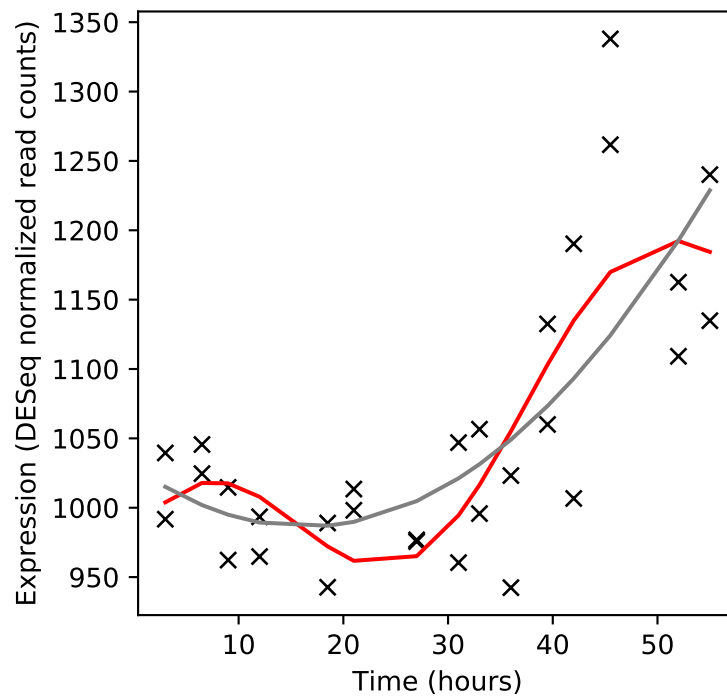
Rv0421c/-



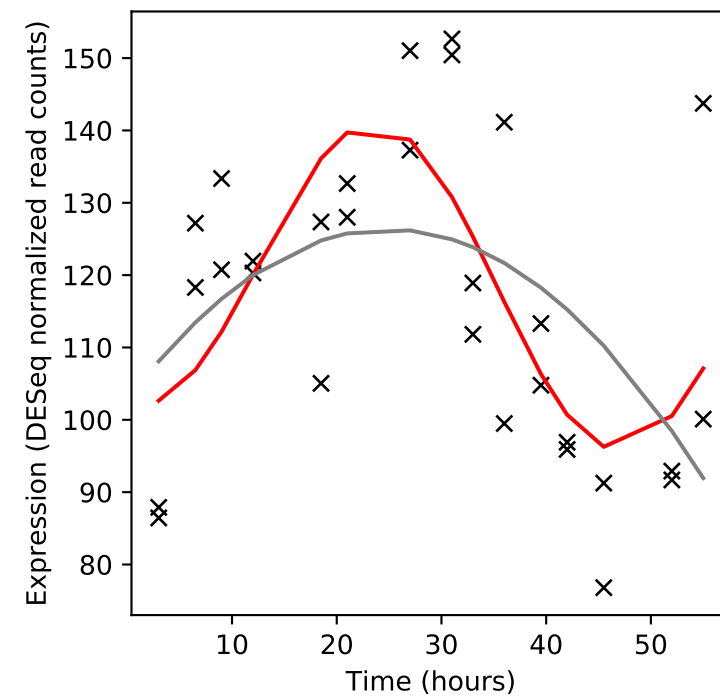
Rv0422c/thiD



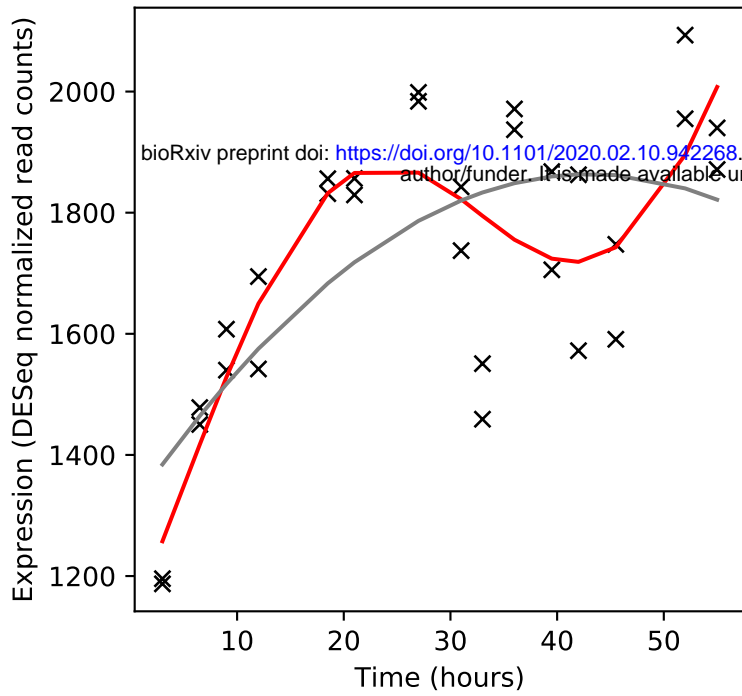
Rv0423c/thiC



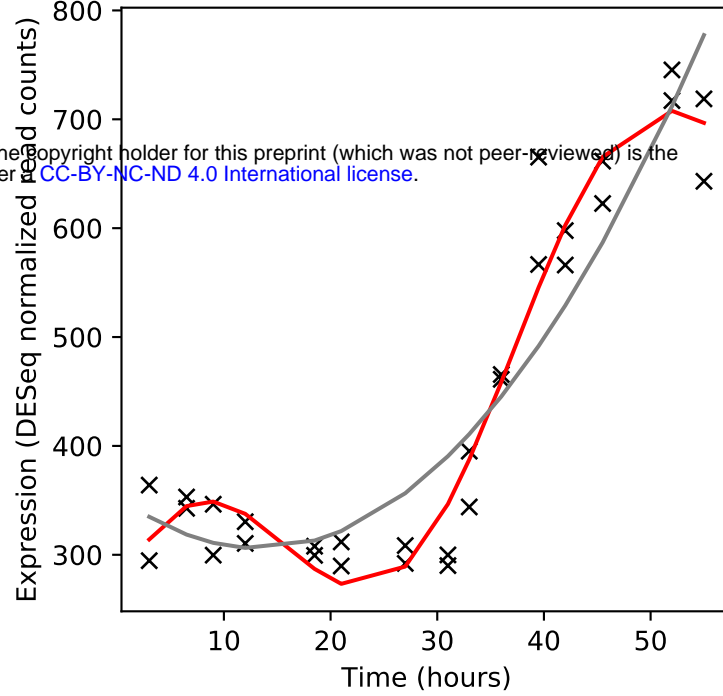
Rv0424c/-



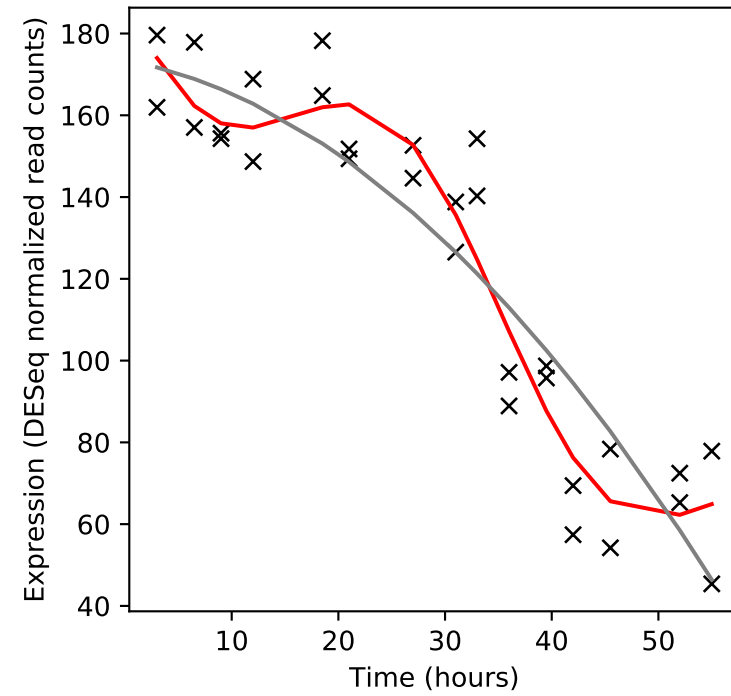
Rv0425c/ctpH



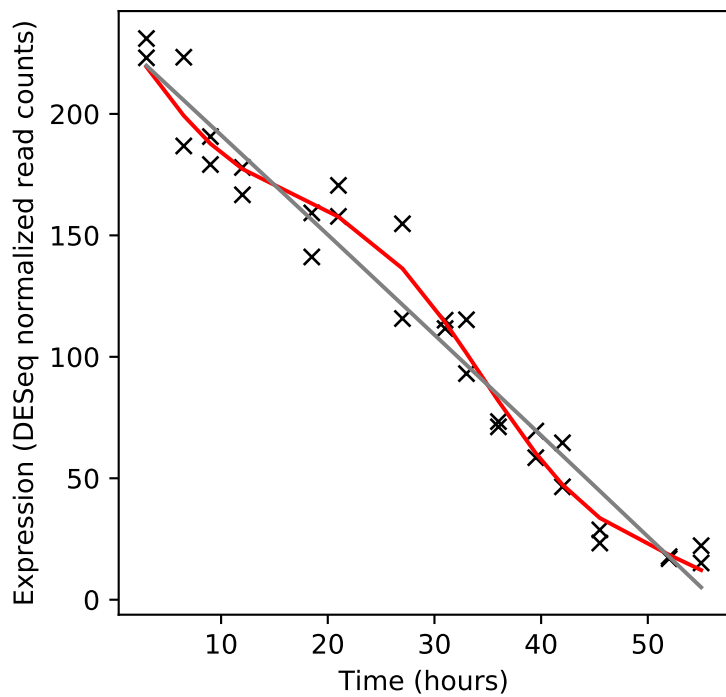
Rv0426c/-



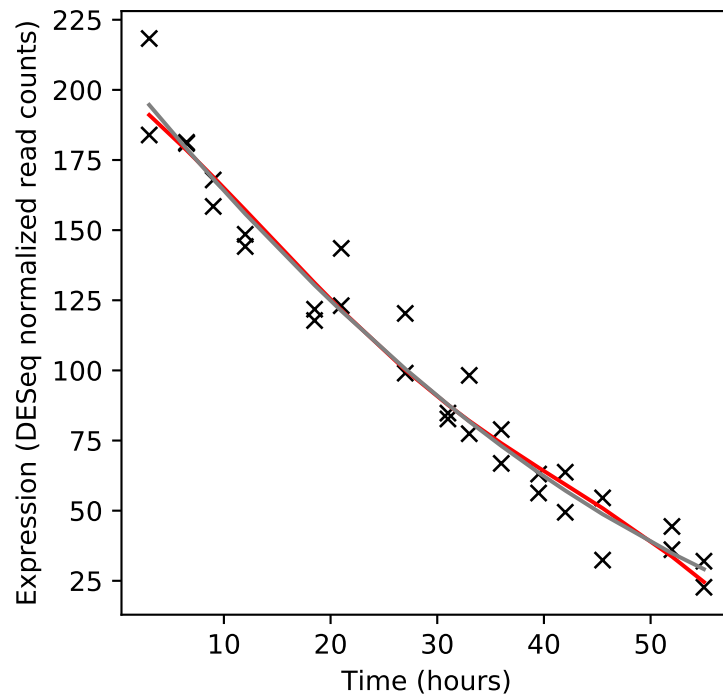
Rv0427c/xthA



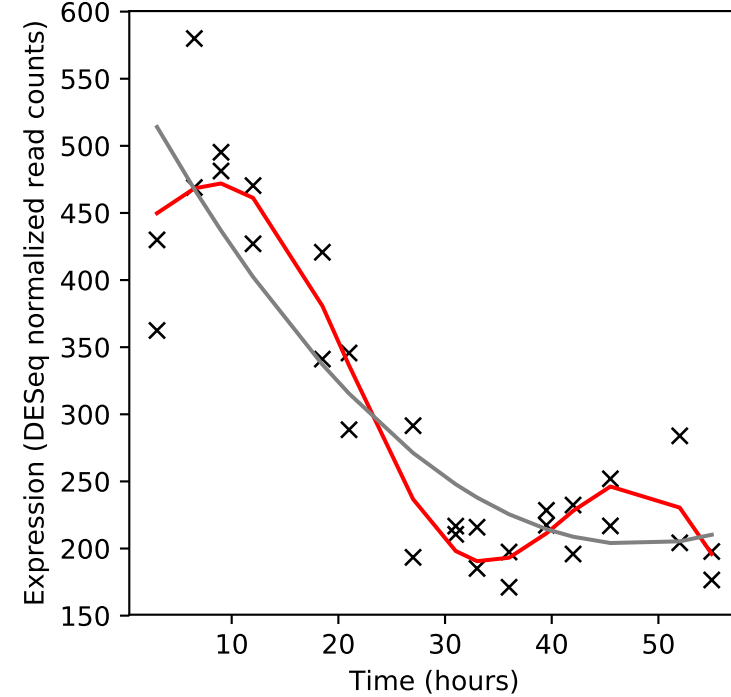
Rv0428c/-



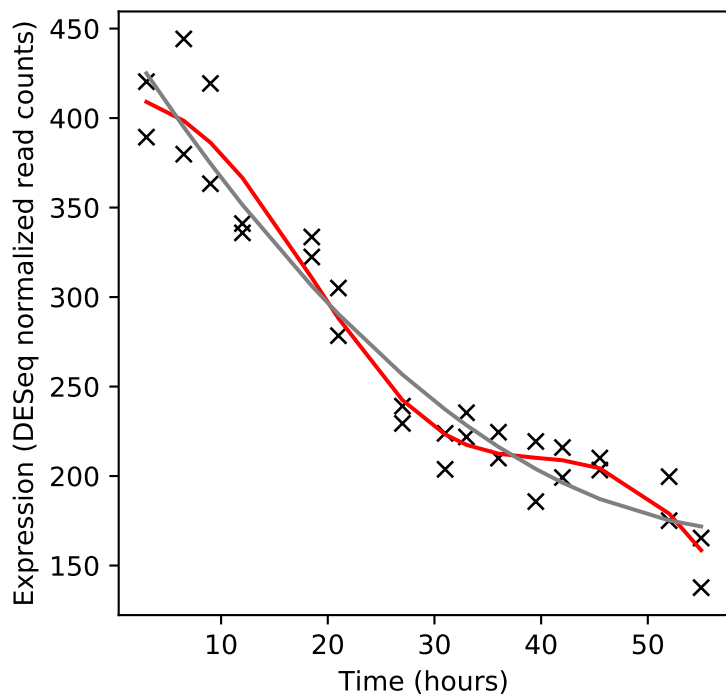
Rv0429c/def



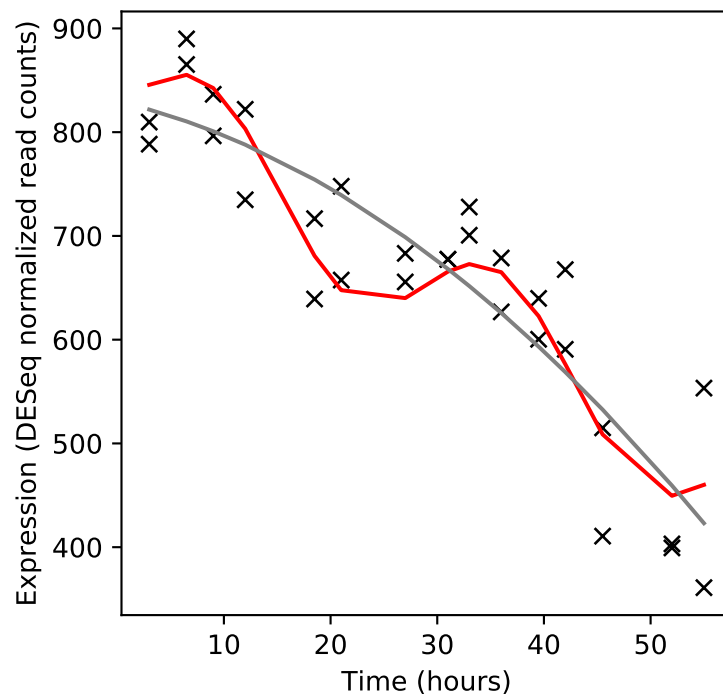
Rv0430/-



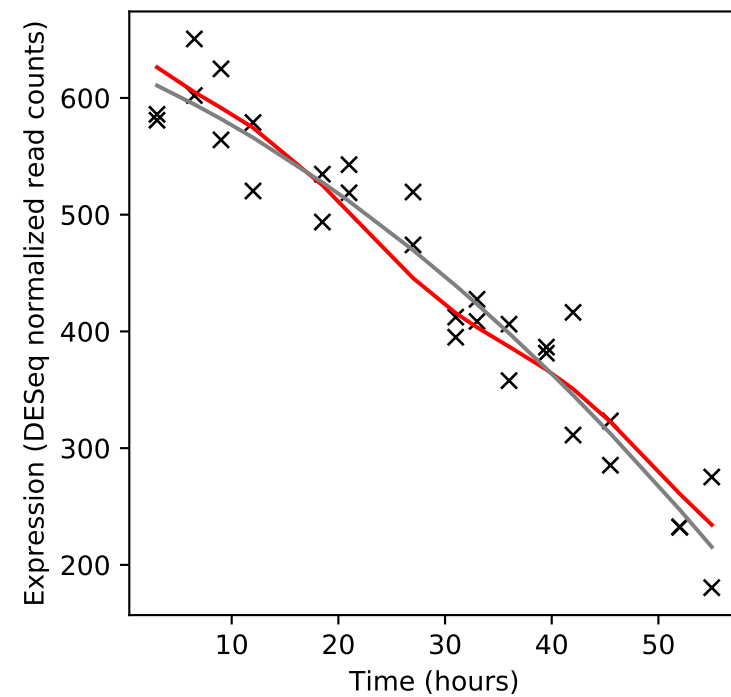
Rv0431/-



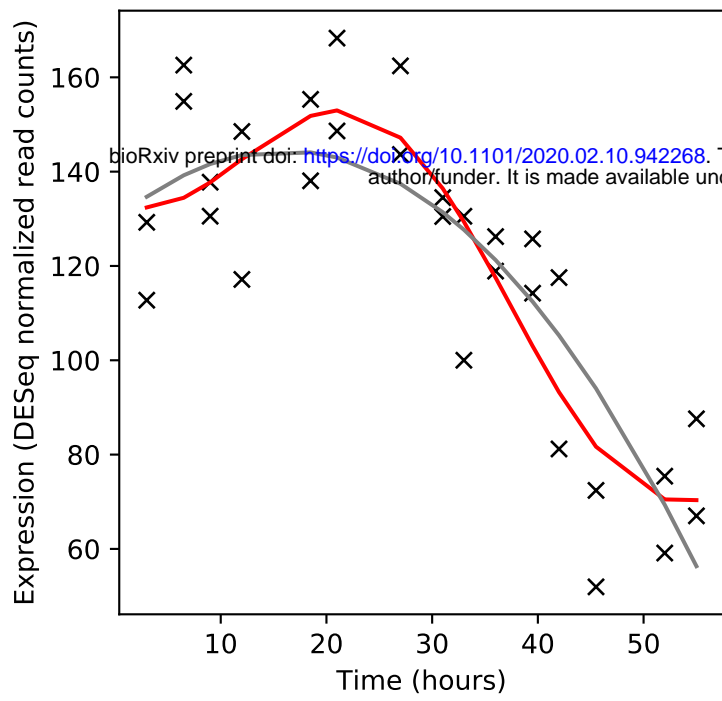
Rv0432/sodC



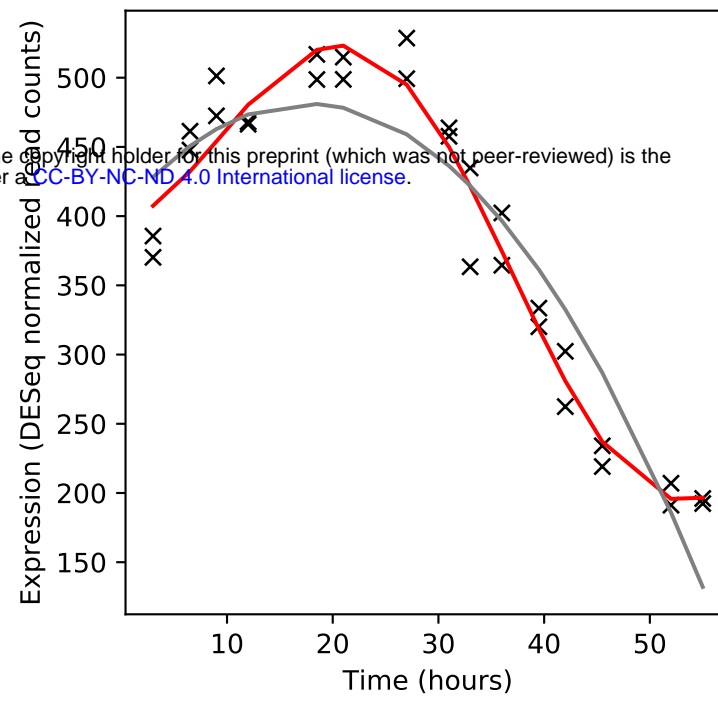
Rv0433/-



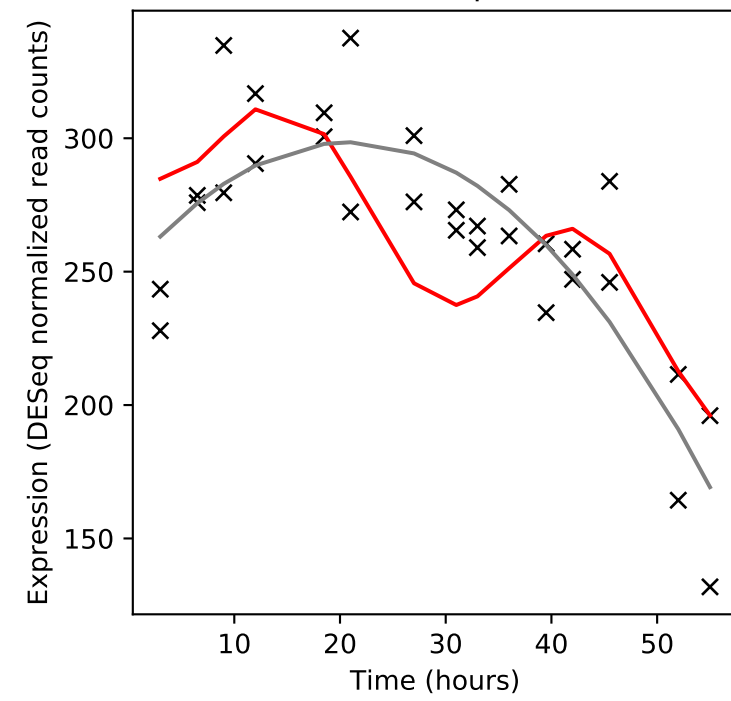
Rv0434/-



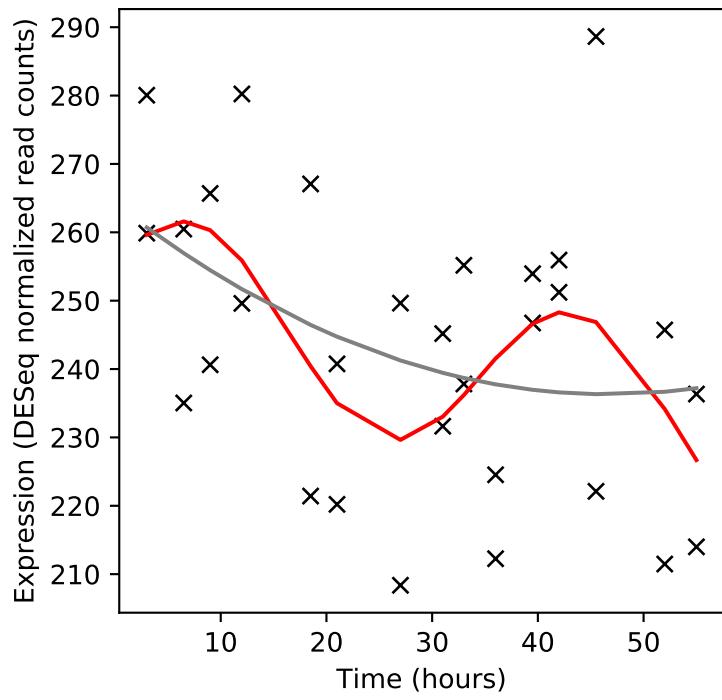
Rv0435c/-



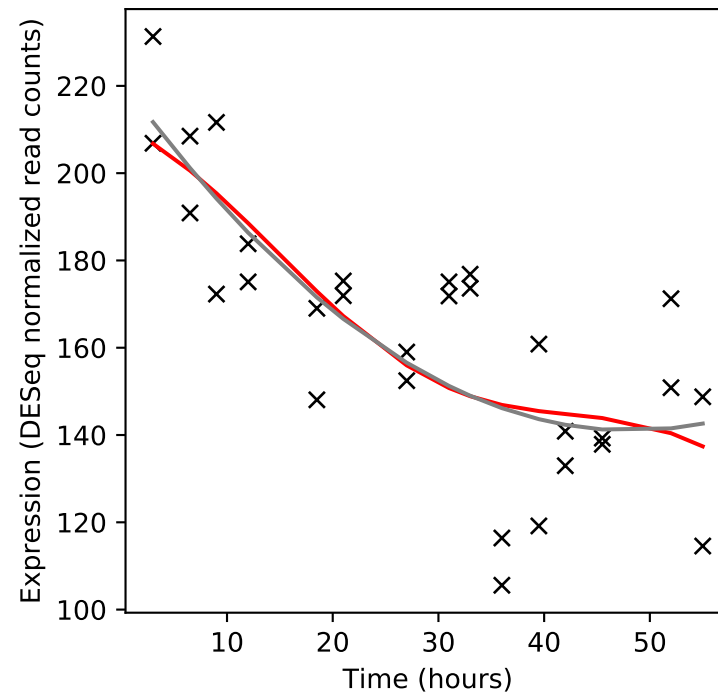
Rv0436c/pssA



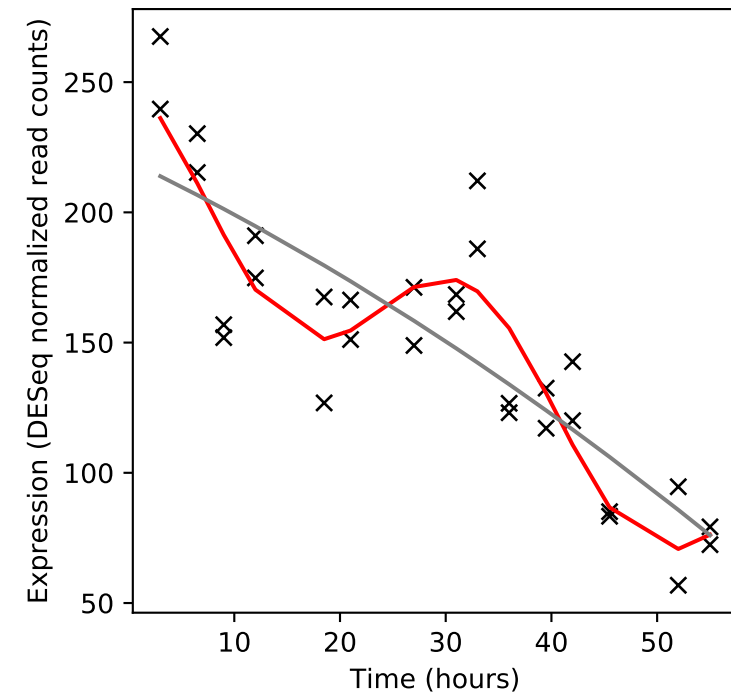
Rv0437c/psd



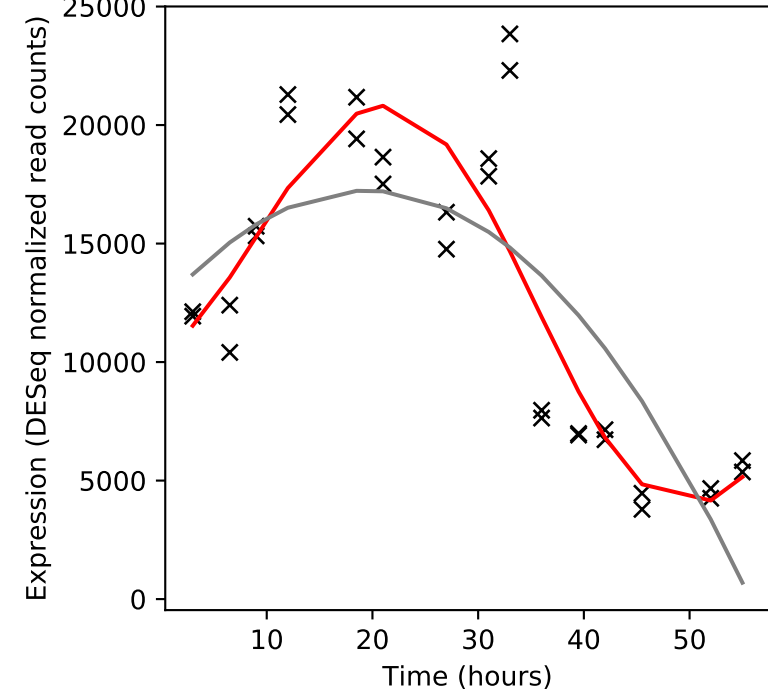
Rv0438c/moeA2



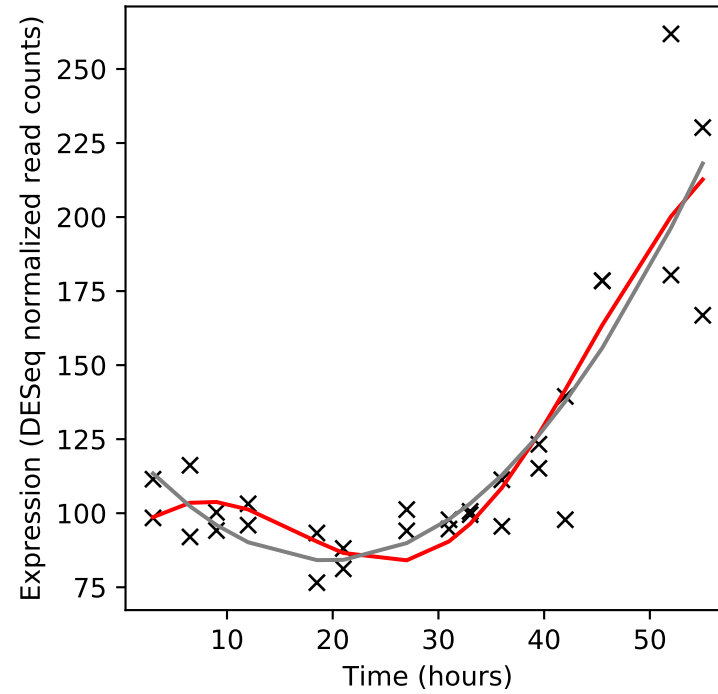
Rv0439c/-



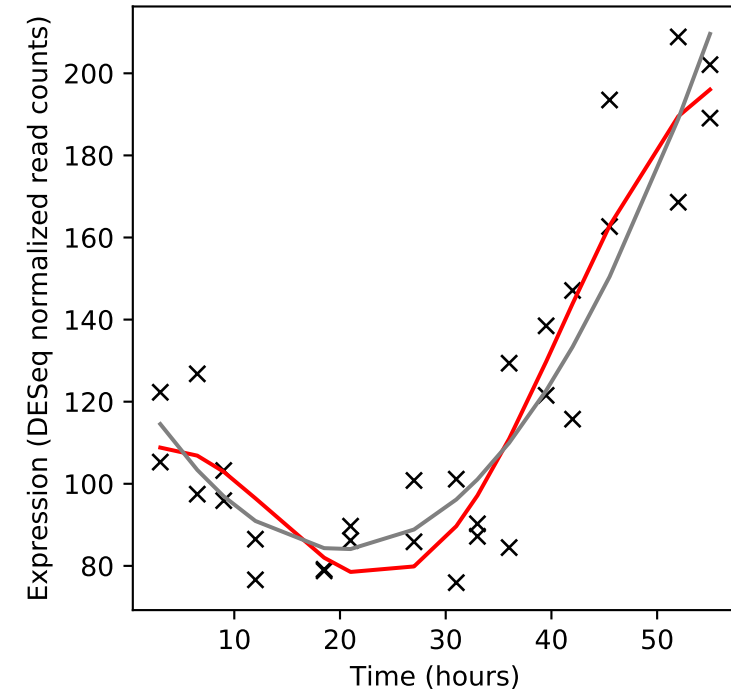
Rv0440/groEL2



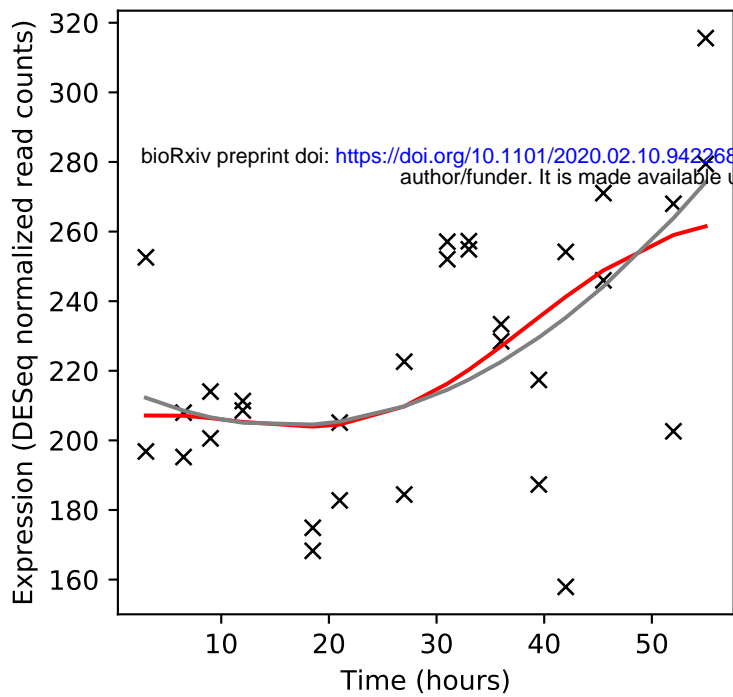
Rv0441c/-



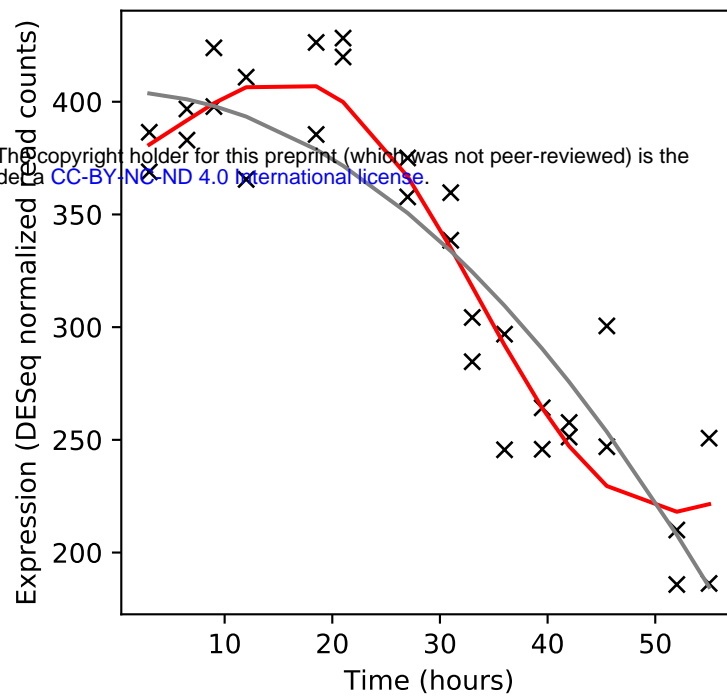
Rv0442c/PPE10



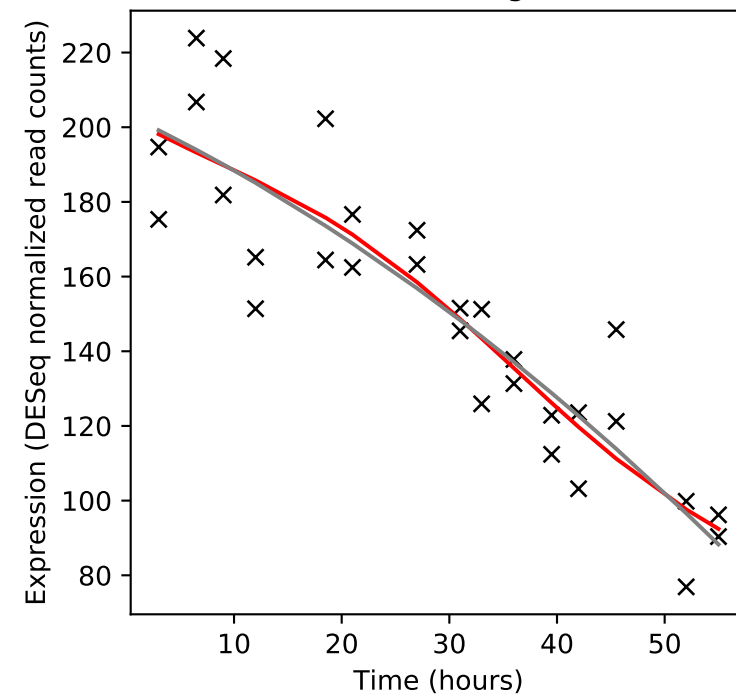
Rv0443/-



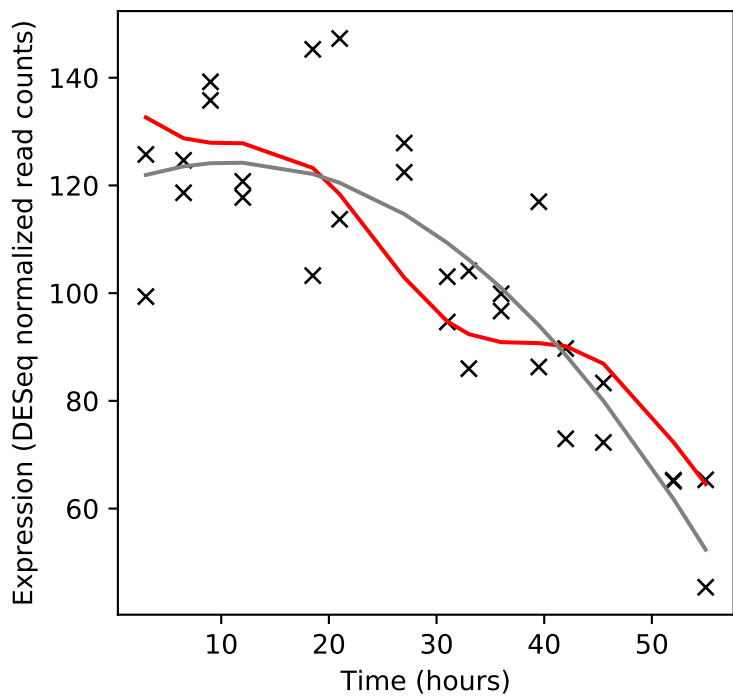
Rv0444c/rskA



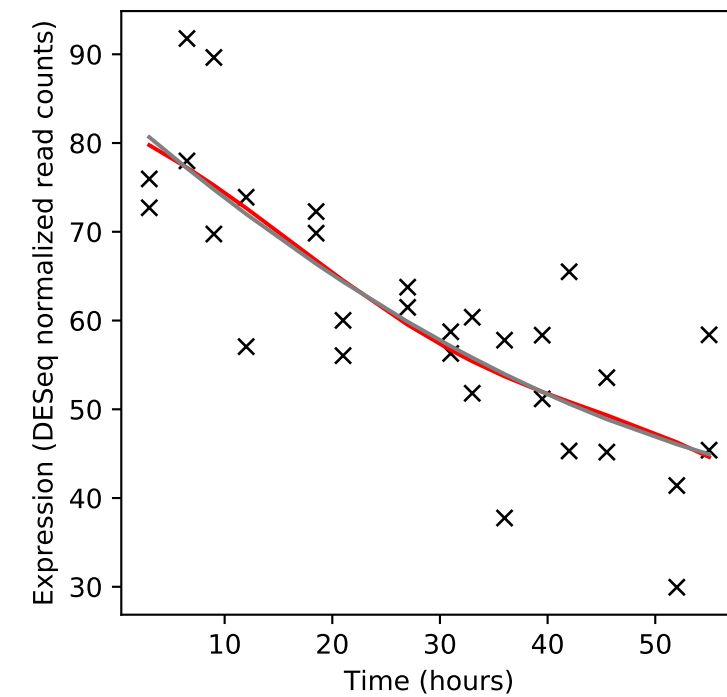
Rv0445c/sigK



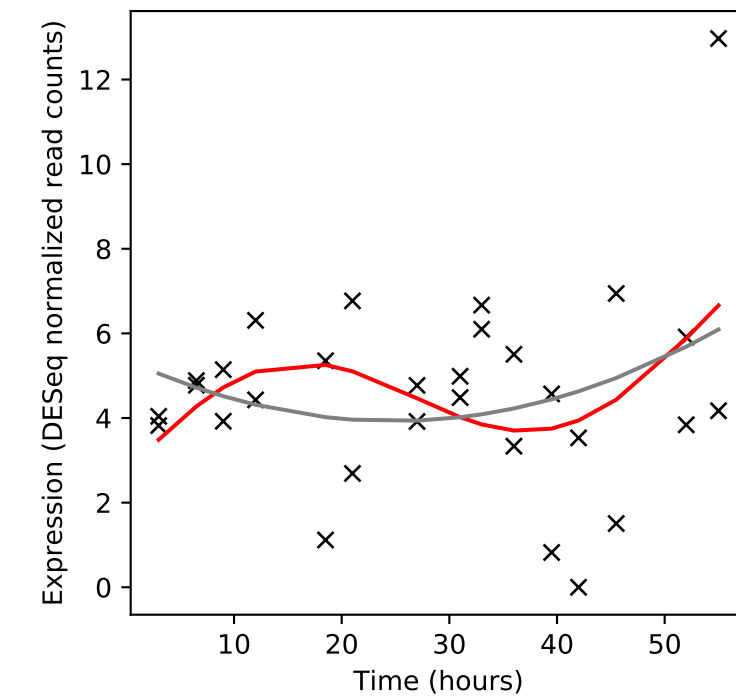
Rv0446c/-



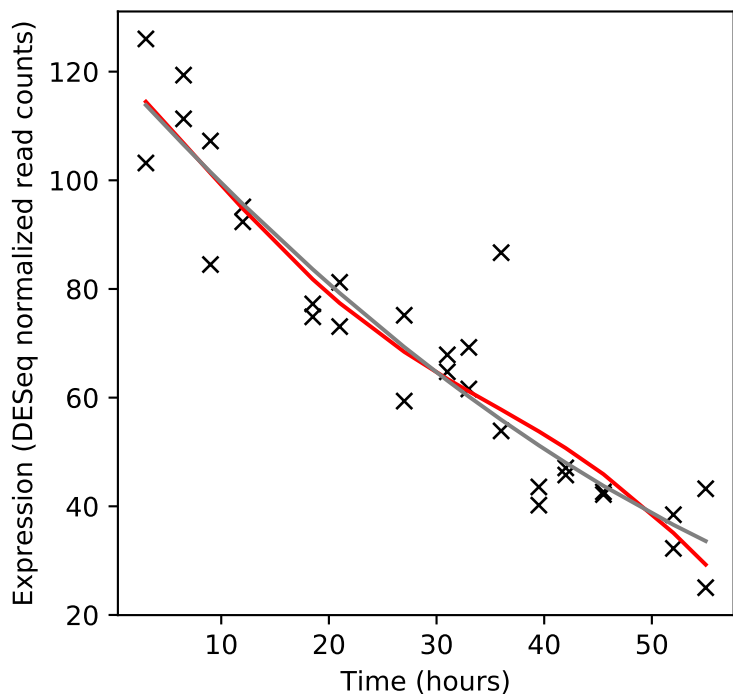
Rv0447c/ufaA1



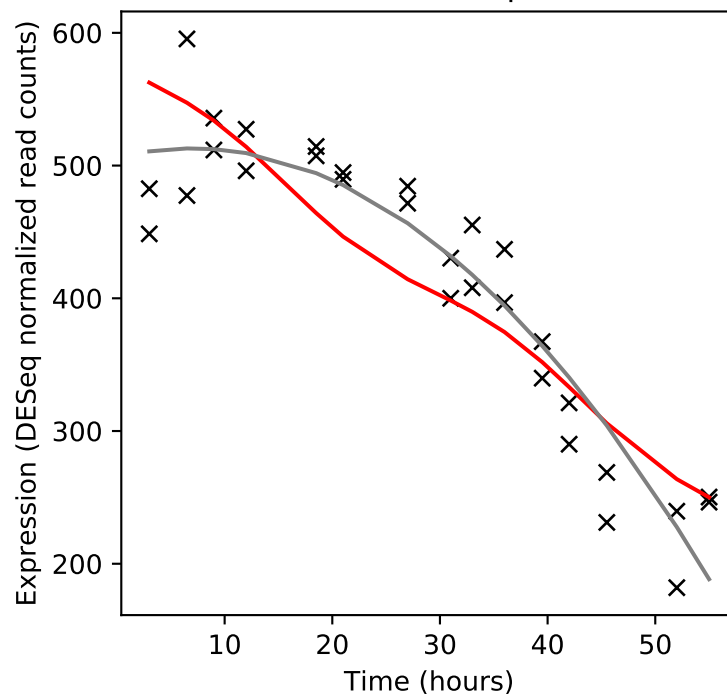
Rv0448c/-



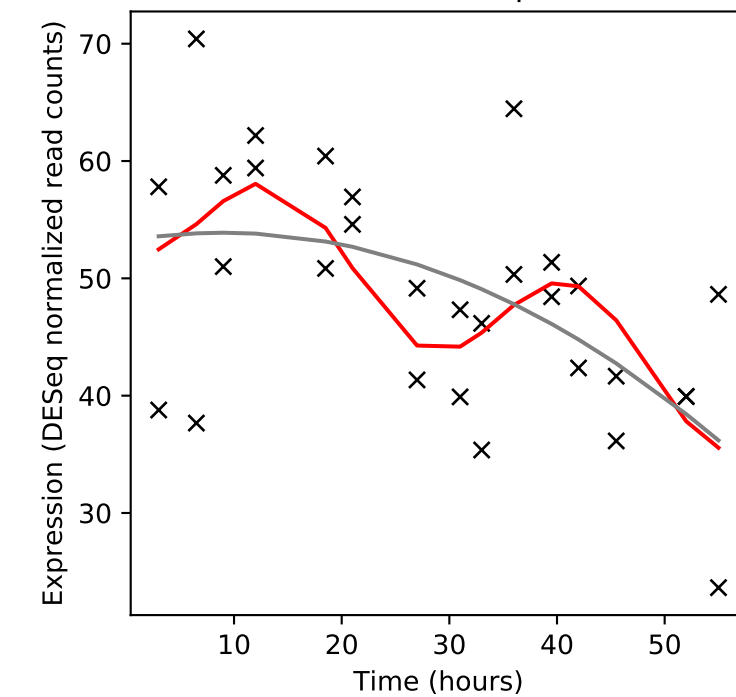
Rv0449c/-



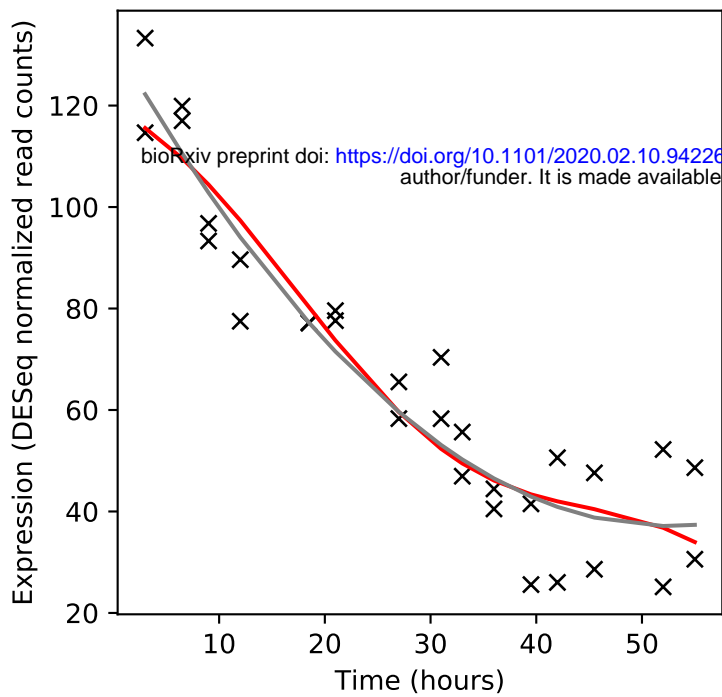
Rv0450c/mmpL4



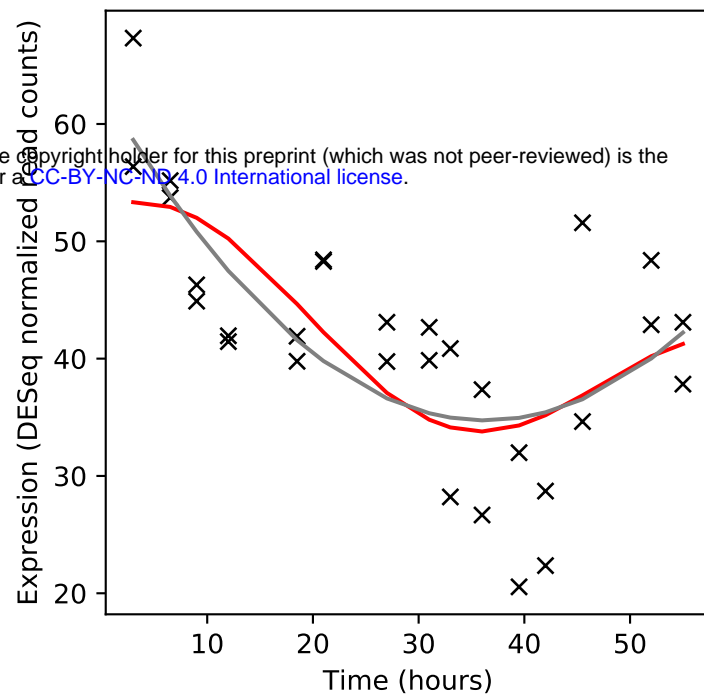
Rv0451c/mmpS4



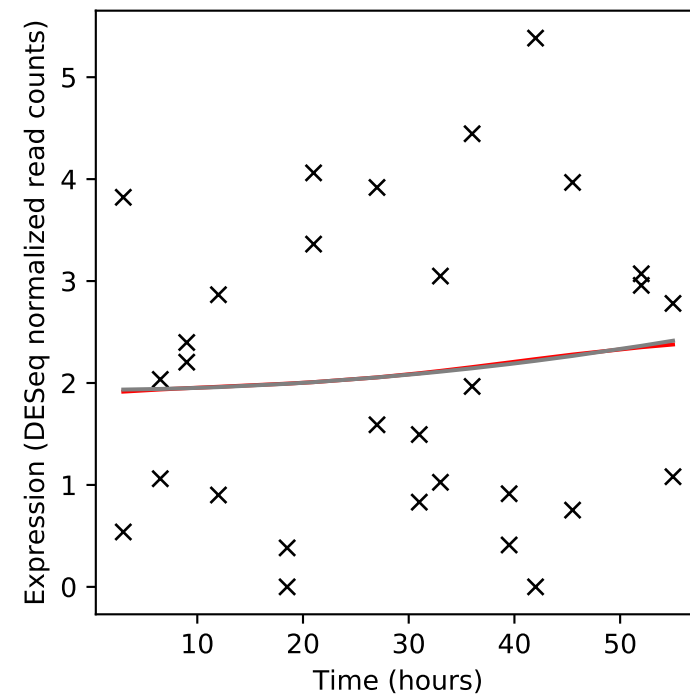
Rv0452/-



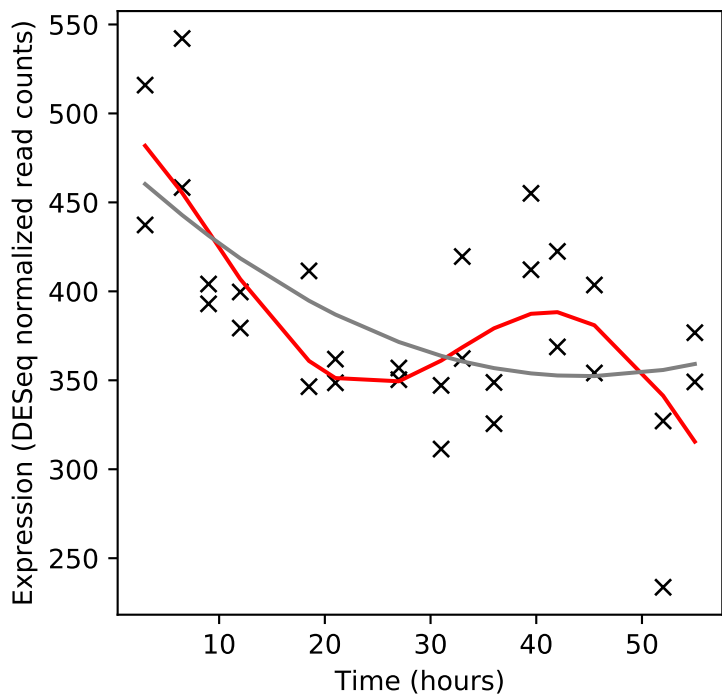
Rv0453/PPE11



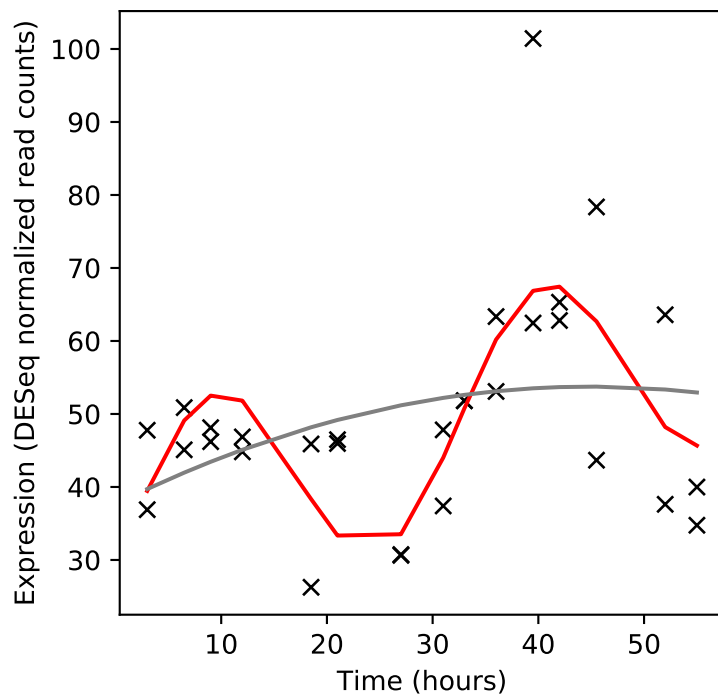
Rv0454/-



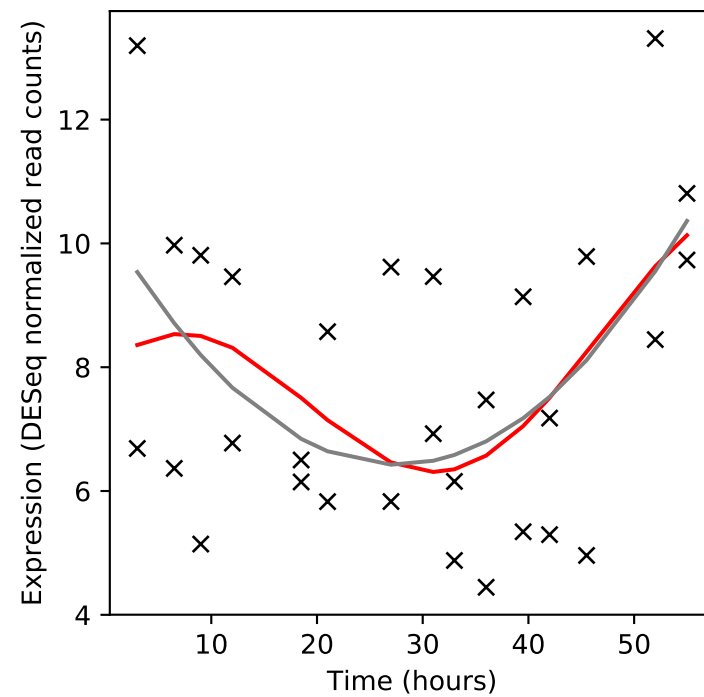
Rv0455c/-



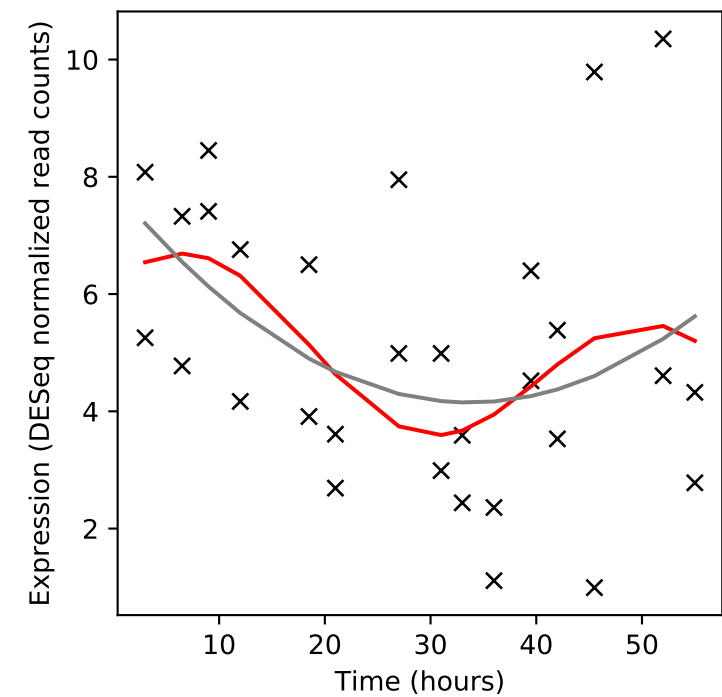
Rv0456c/echA2



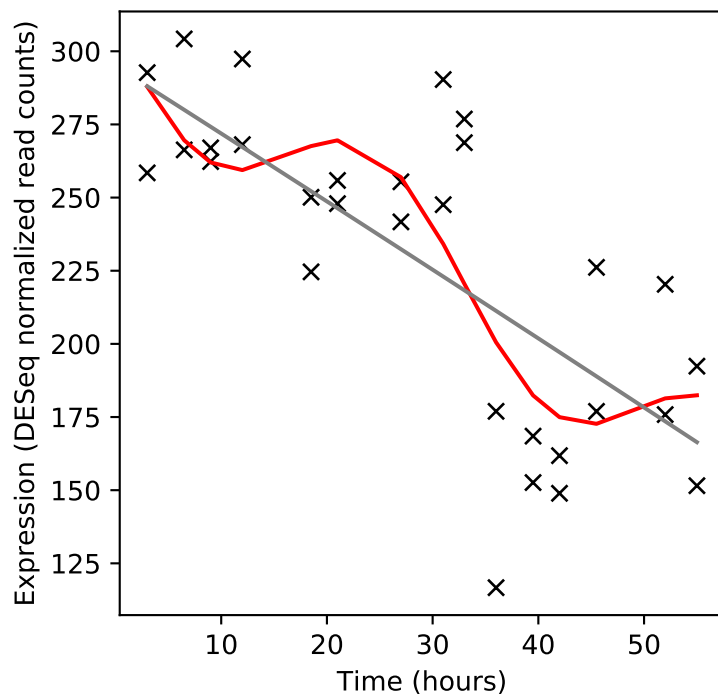
Rv0456A/mazF1



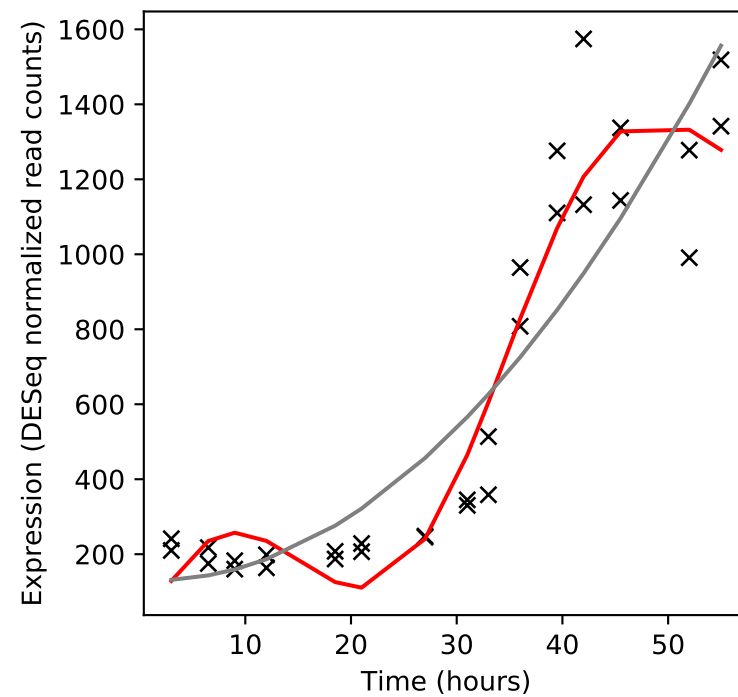
Rv0456B/mazE1



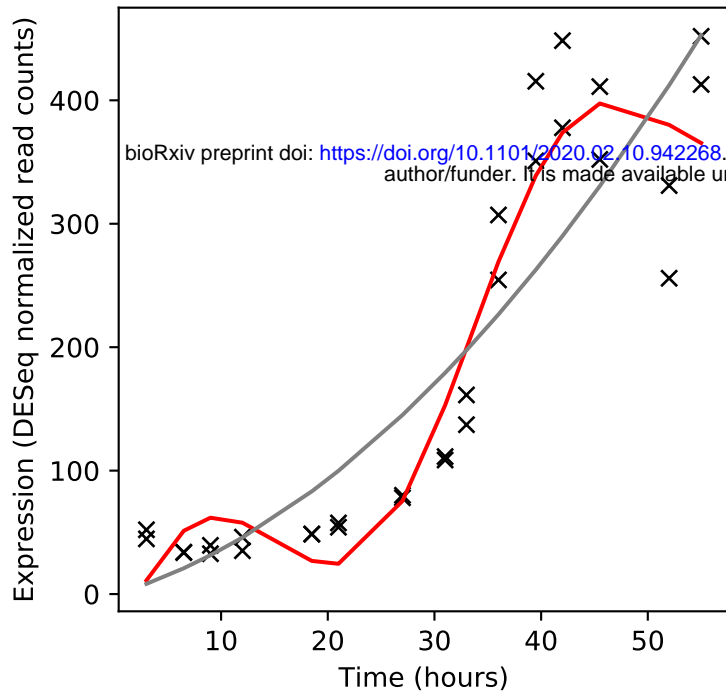
Rv0457c/-



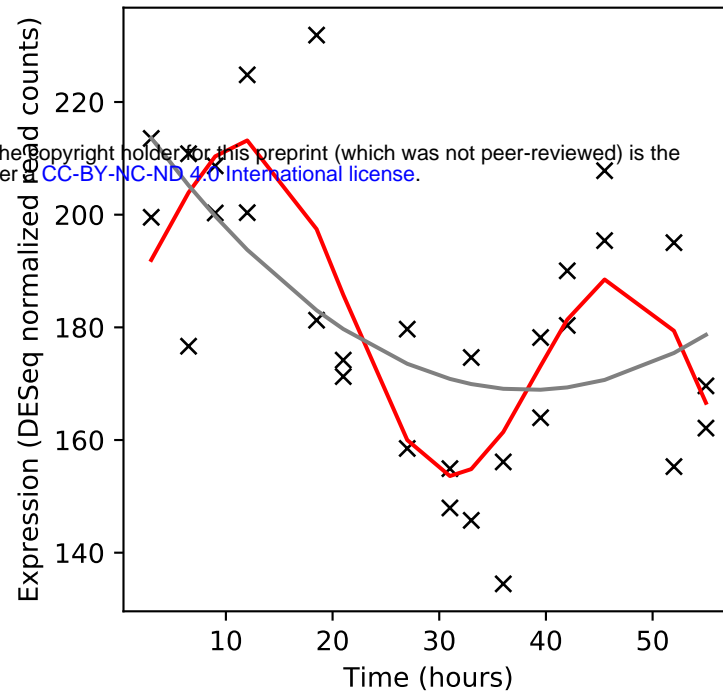
Rv0458/-



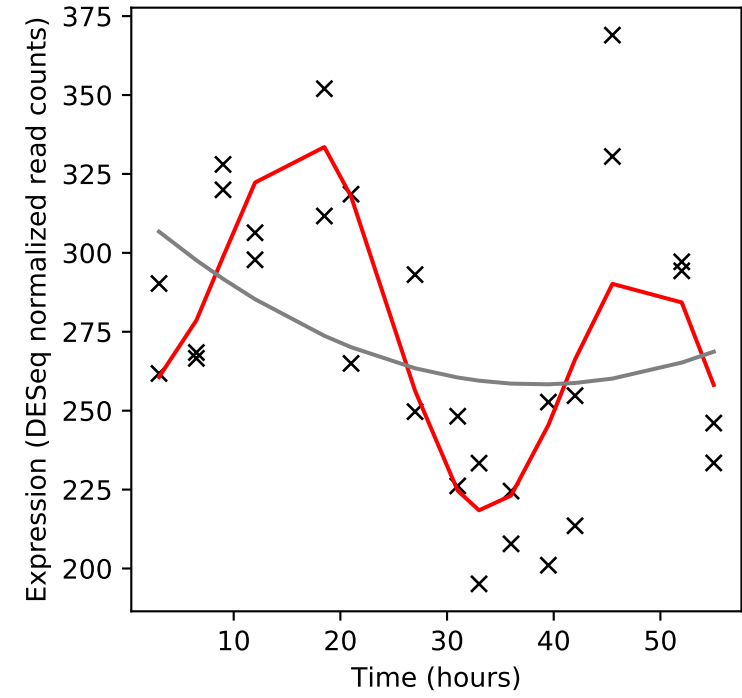
Rv0459/-



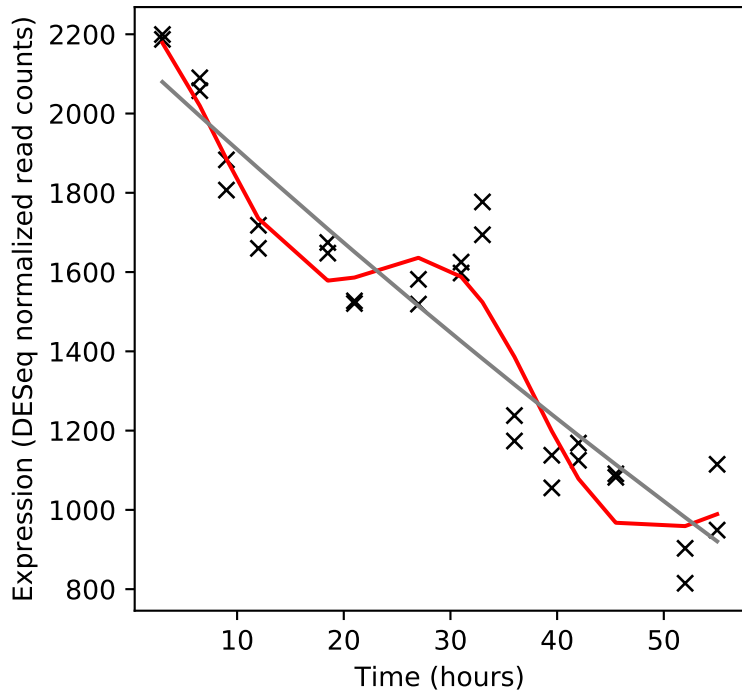
Rv0460/-



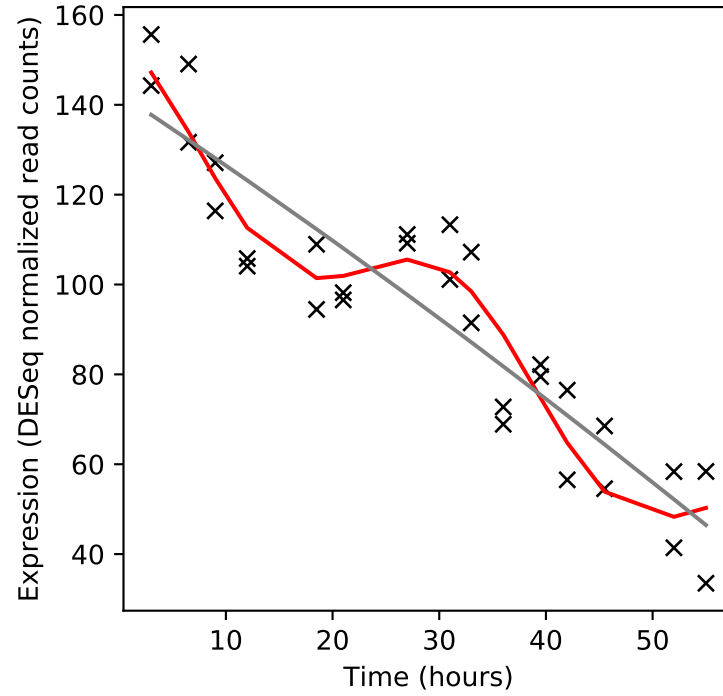
Rv0461/-



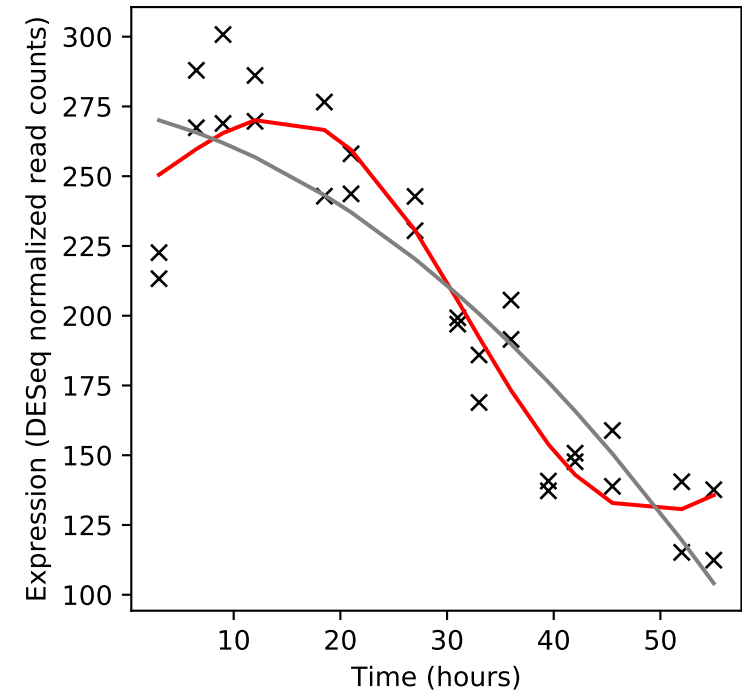
Rv0462/lpdC



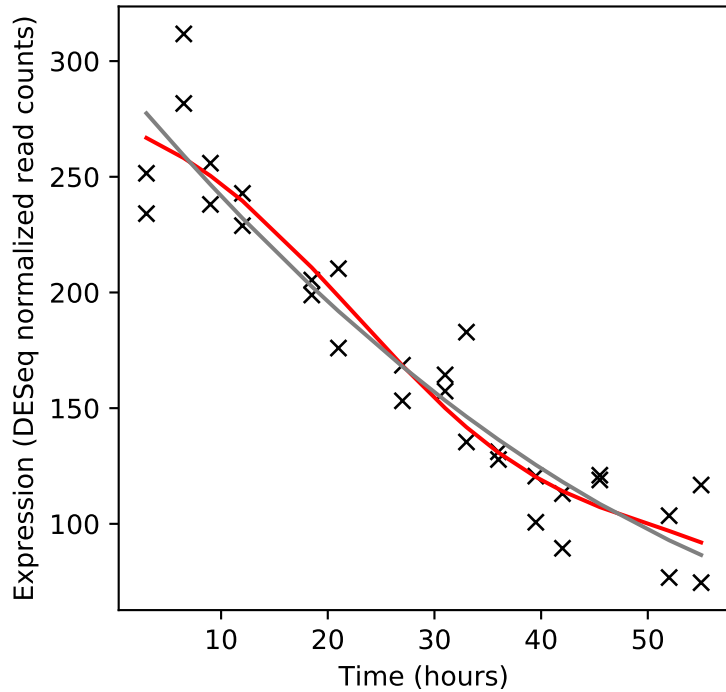
Rv0463/-



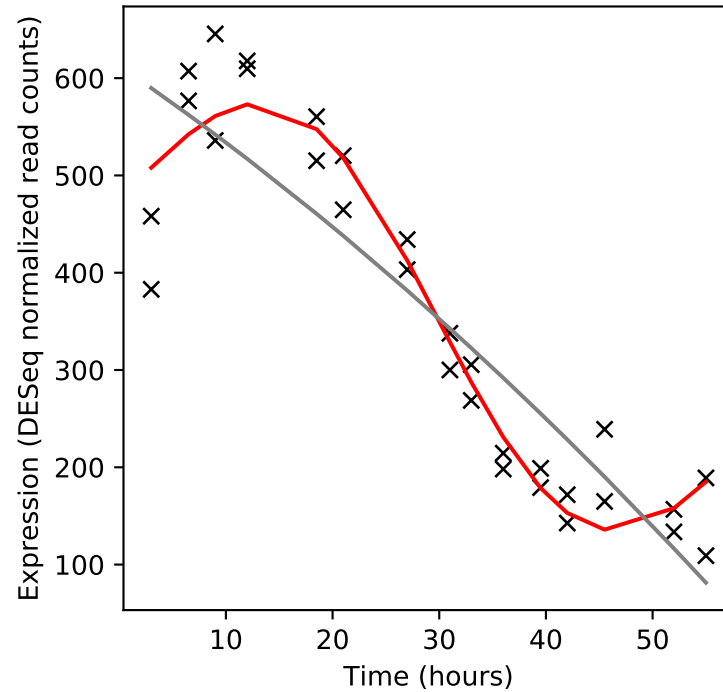
Rv0464c/-



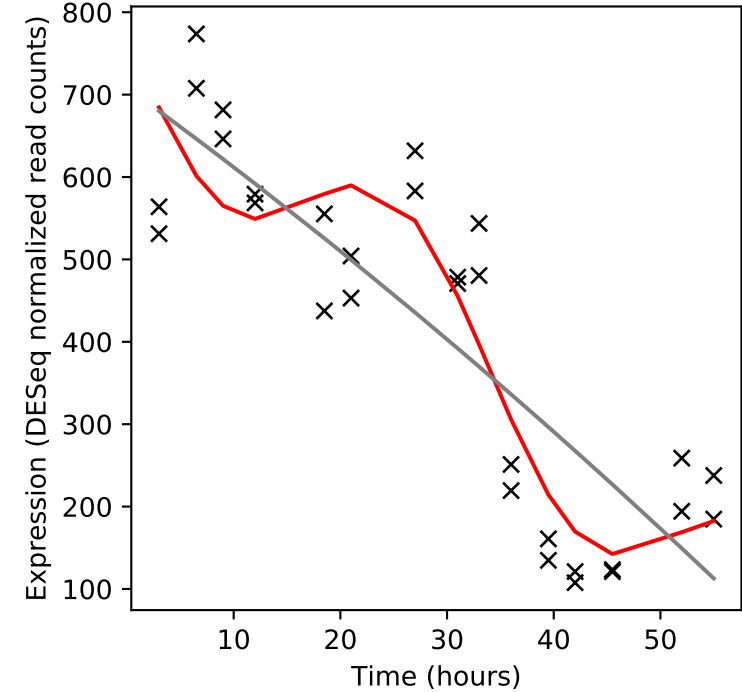
Rv0465c/-



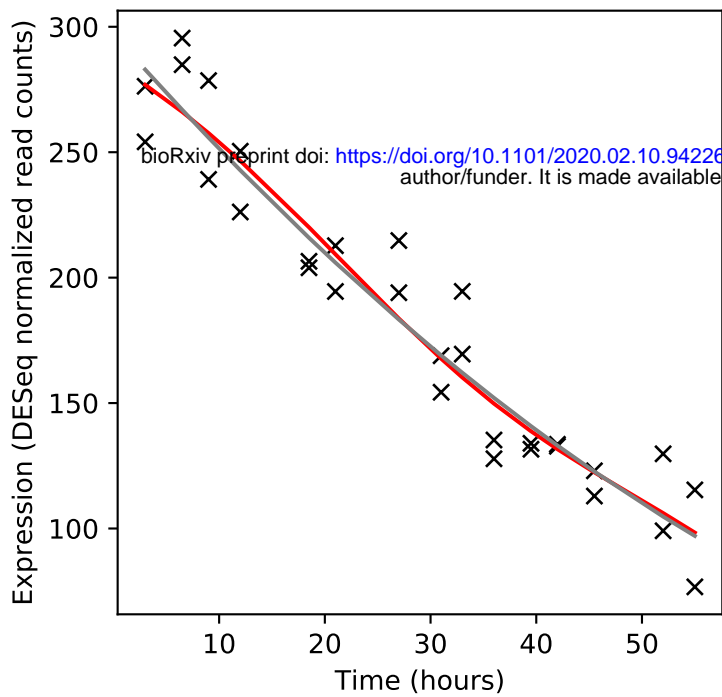
Rv0466/-



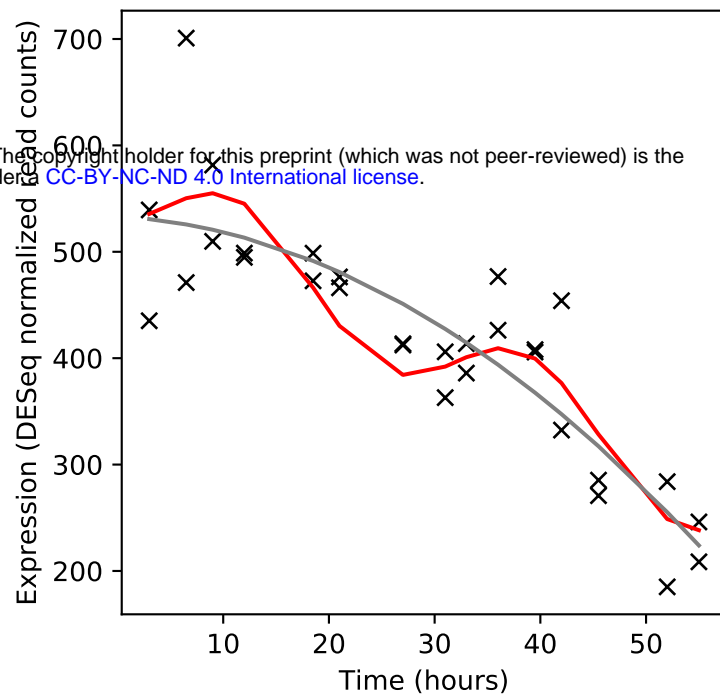
Rv0467/icl1



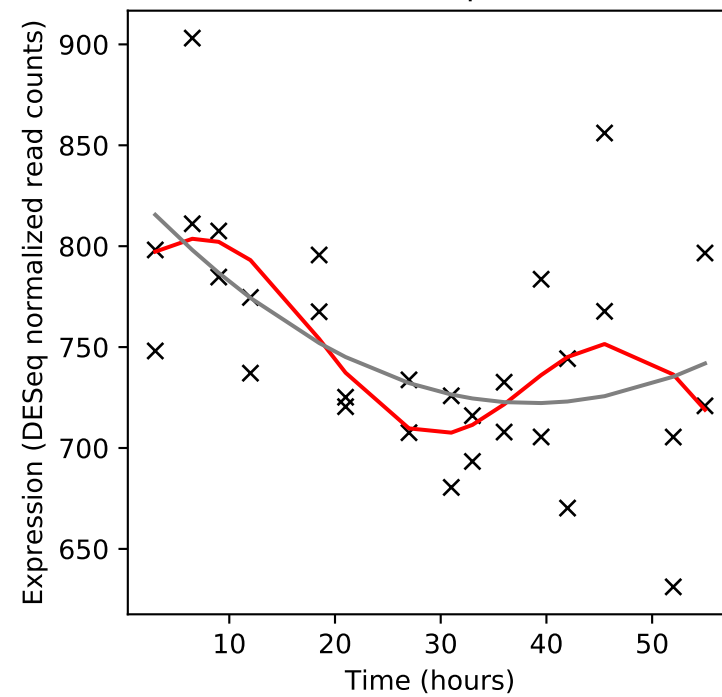
Rv0468/fadB2



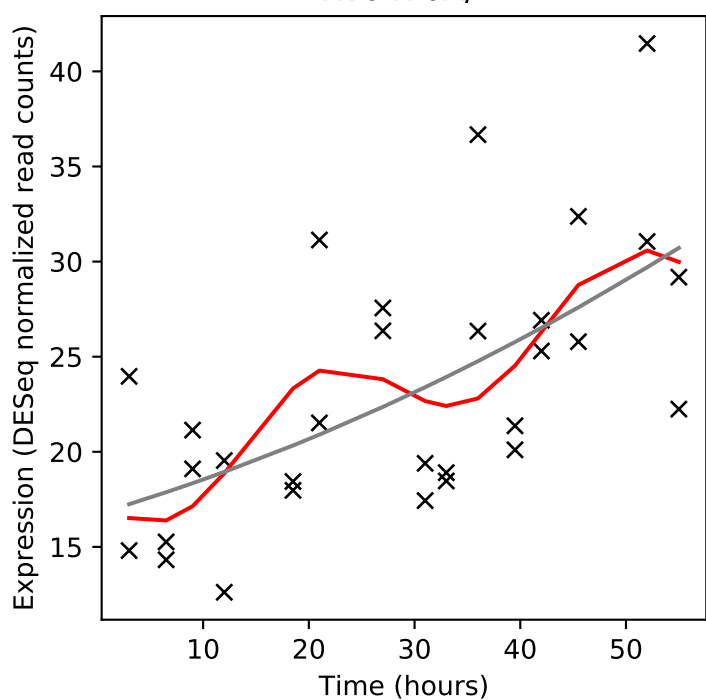
Rv0469/umaA



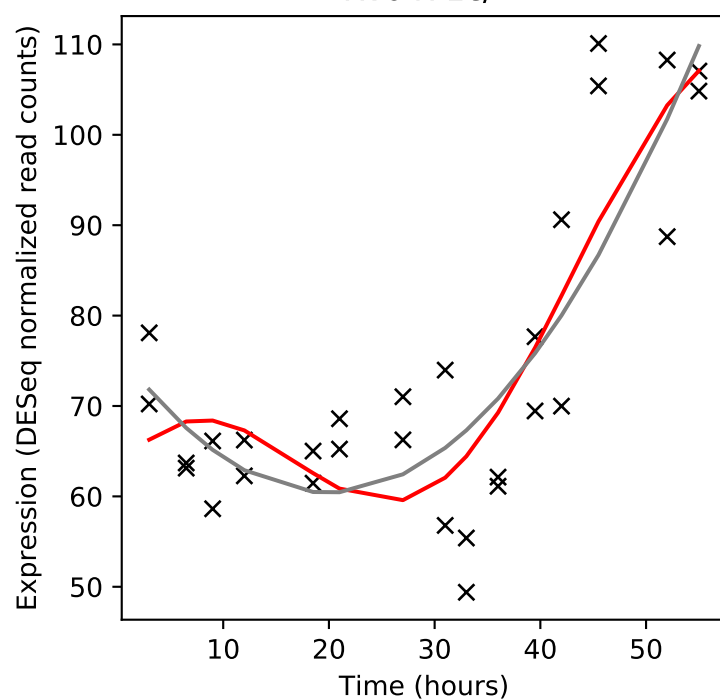
Rv0470c/pcaA



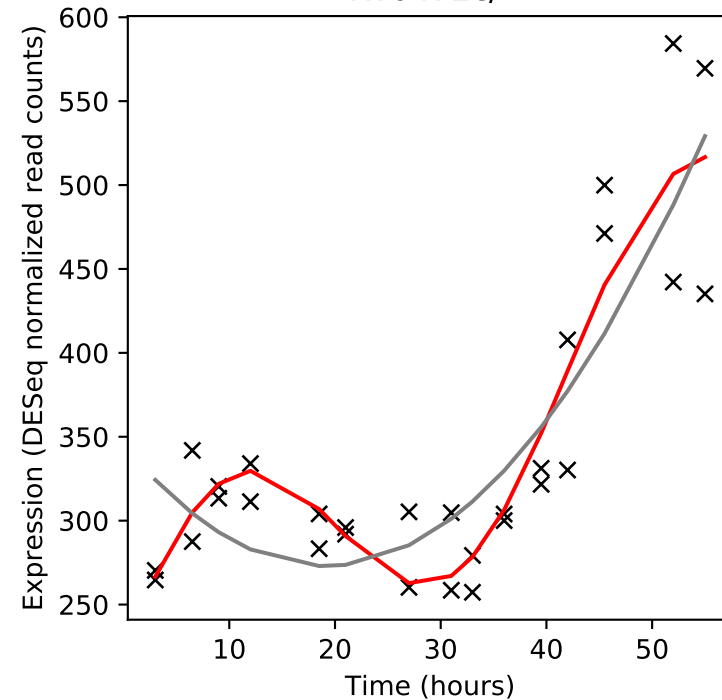
Rv0470A/-



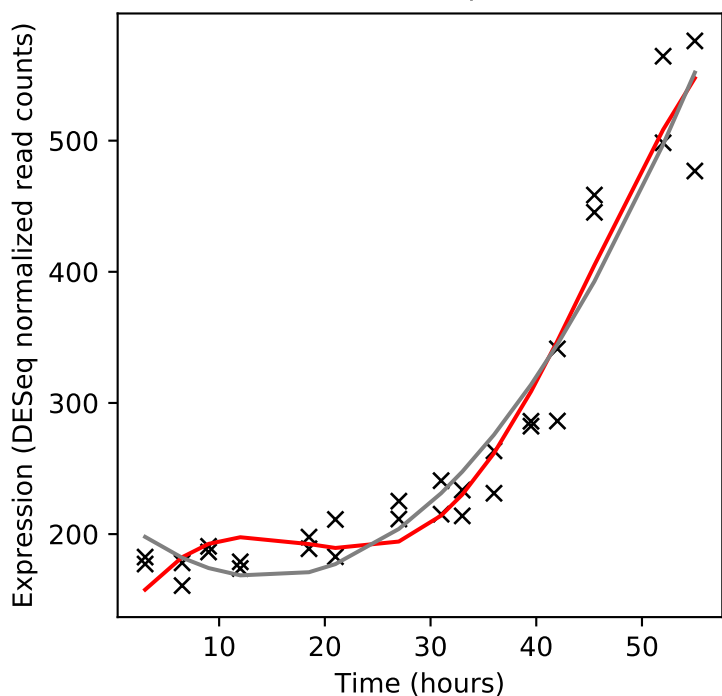
Rv0471c/-



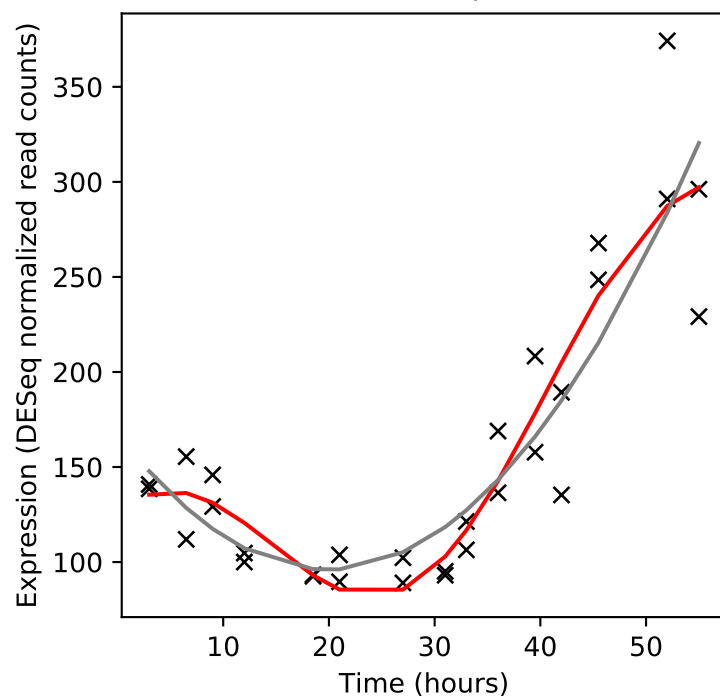
Rv0472c/-



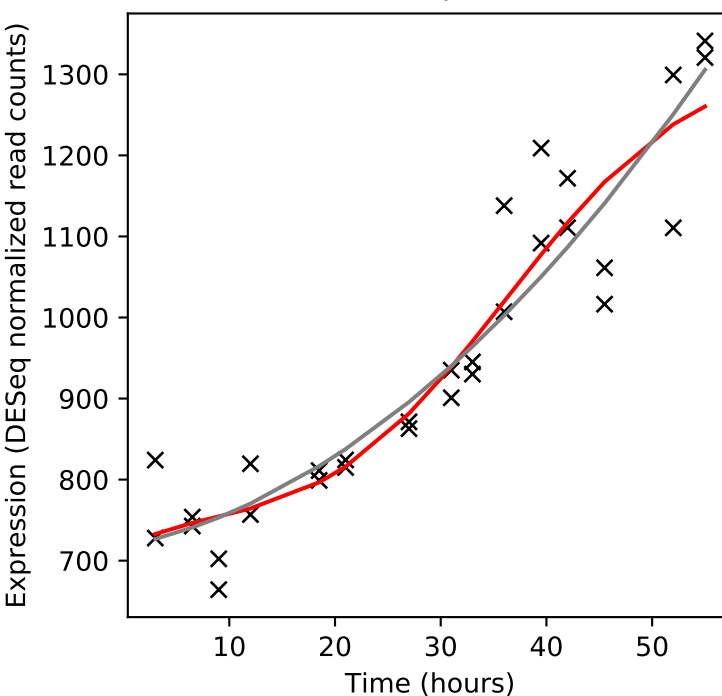
Rv0473/-



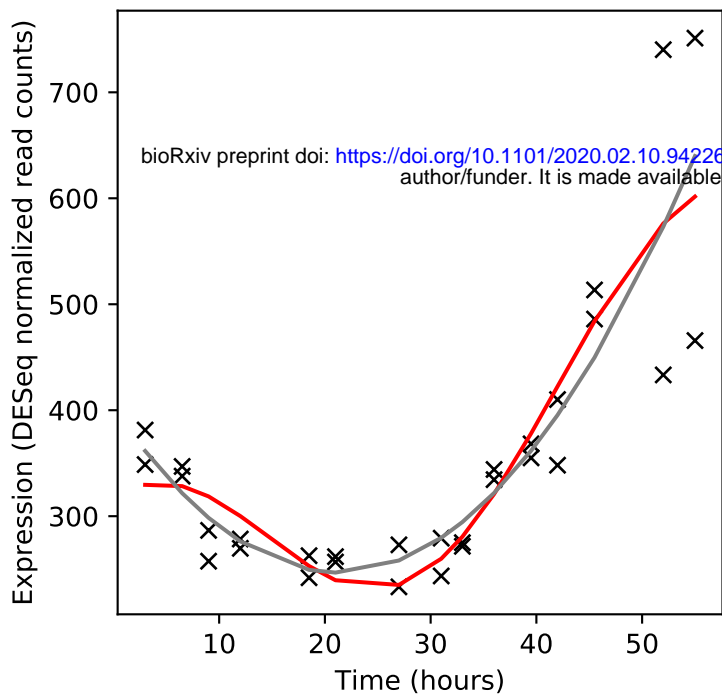
Rv0474/-



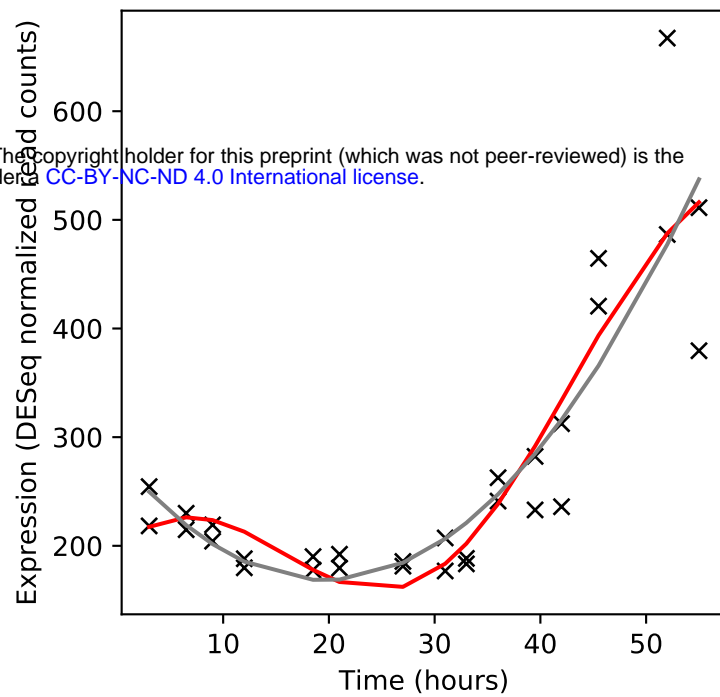
Rv0475/hbhA



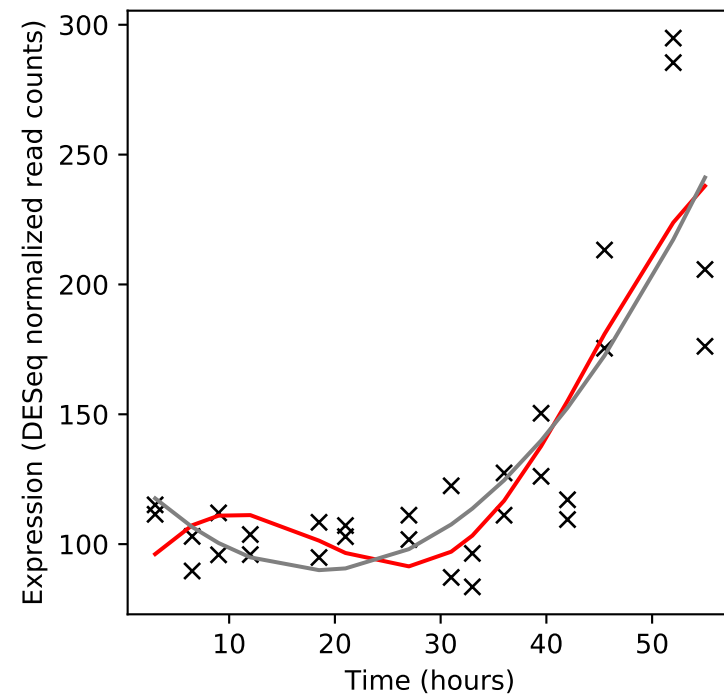
Rv0476/-



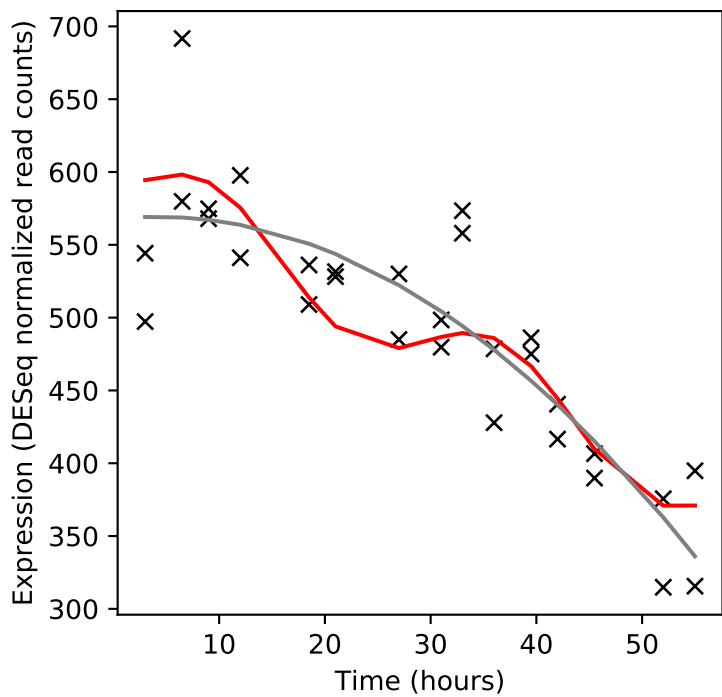
Rv0477/-



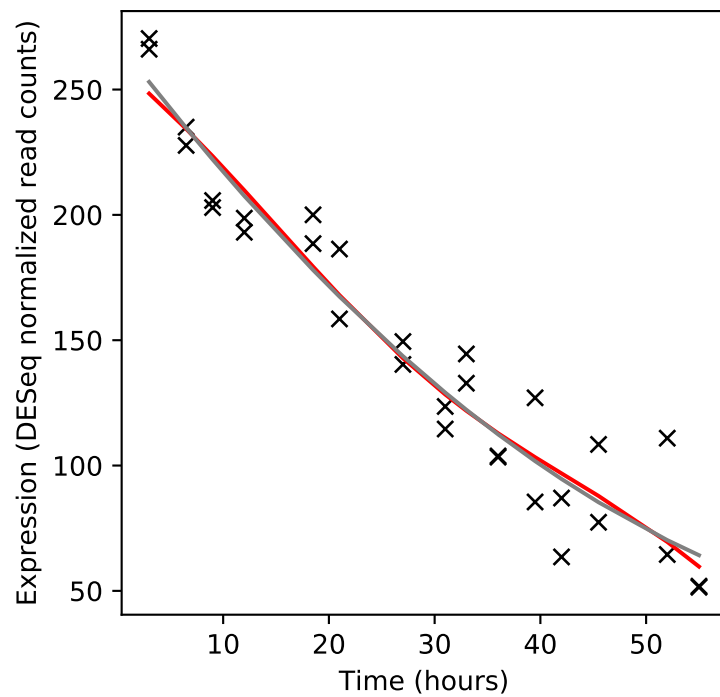
Rv0478/deoC



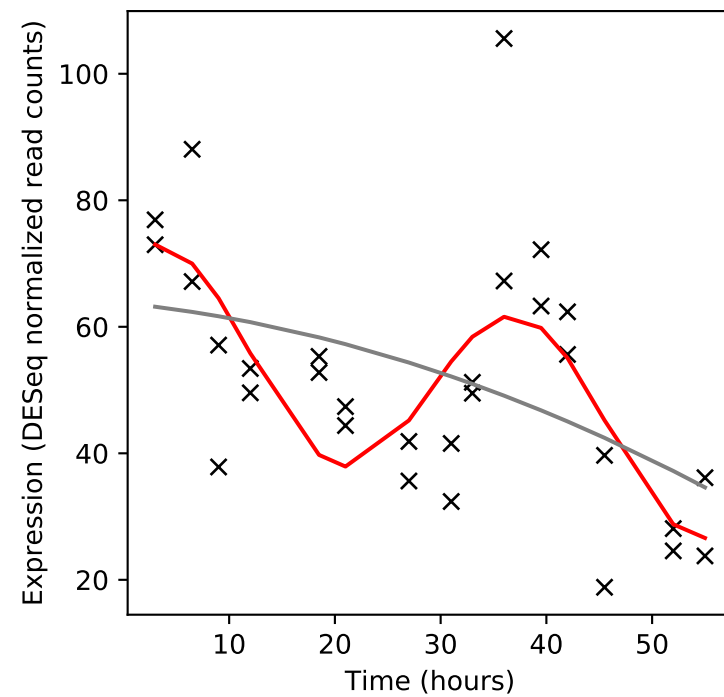
Rv0479c/-



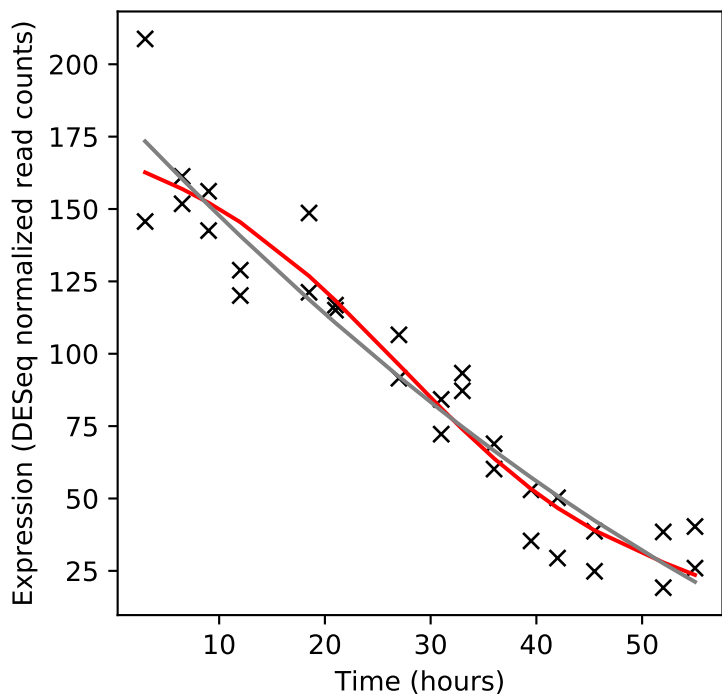
Rv0480c/-



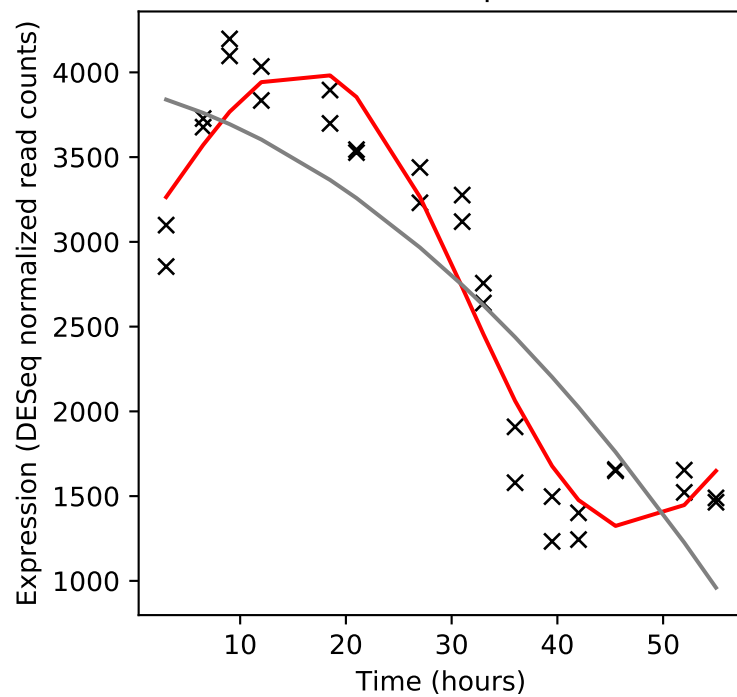
Rv0481c/-



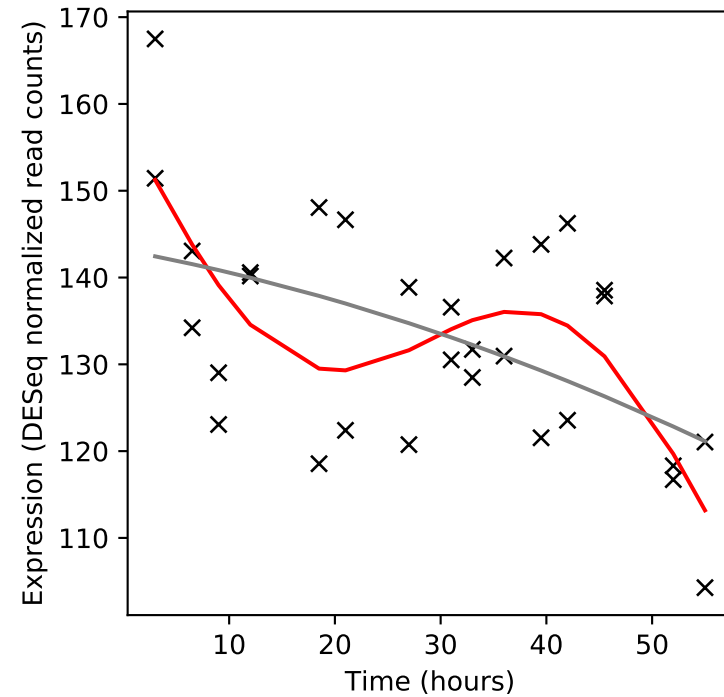
Rv0482/murB



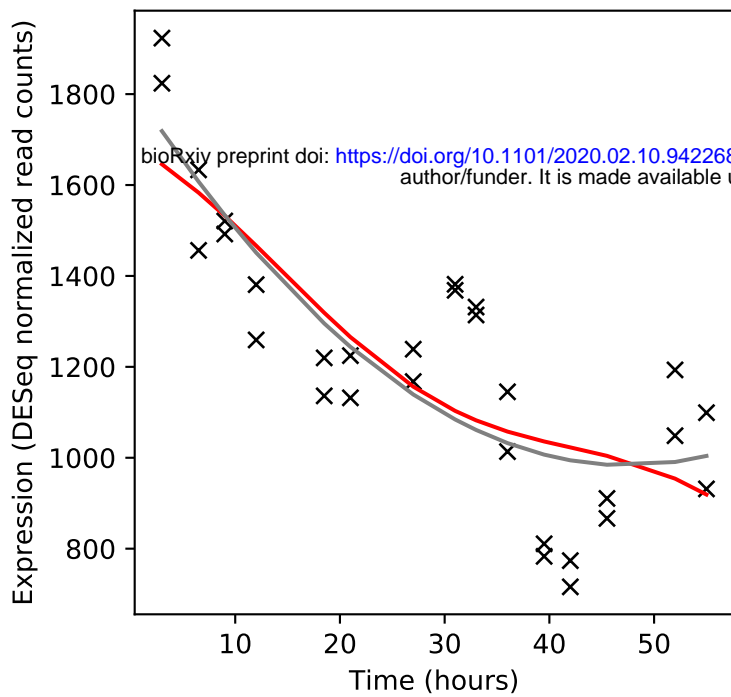
Rv0483/lprQ



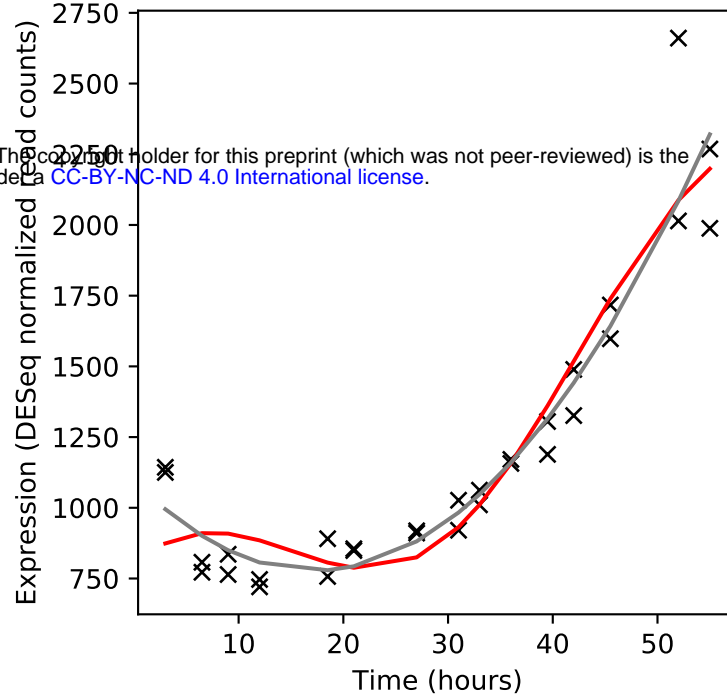
Rv0484c/-



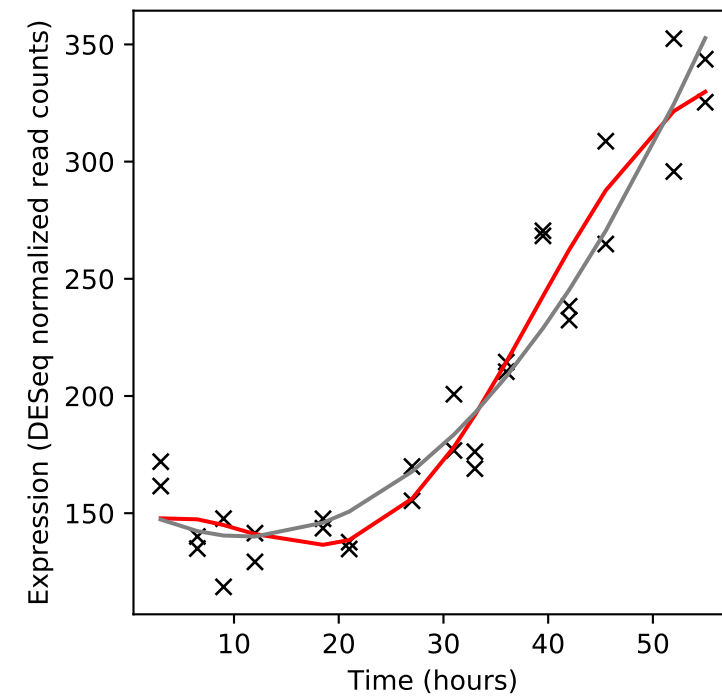
Rv0485/-



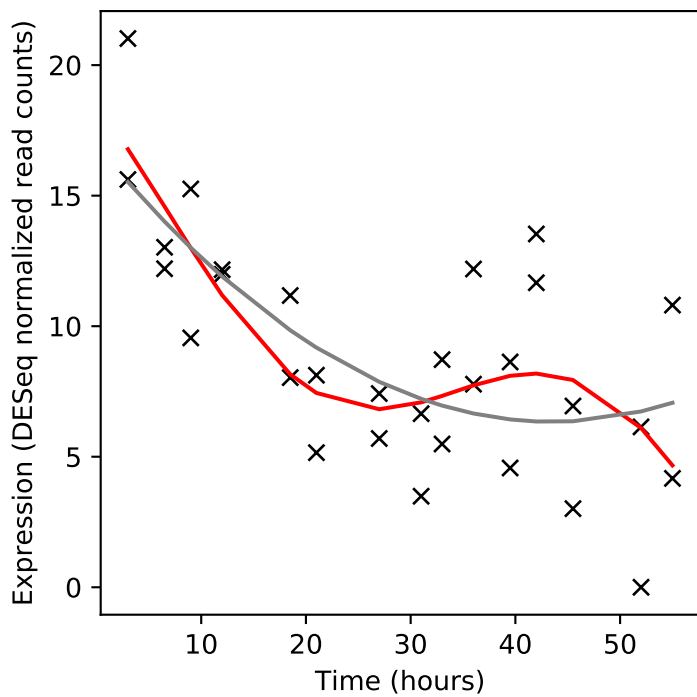
Rv0486/mshA



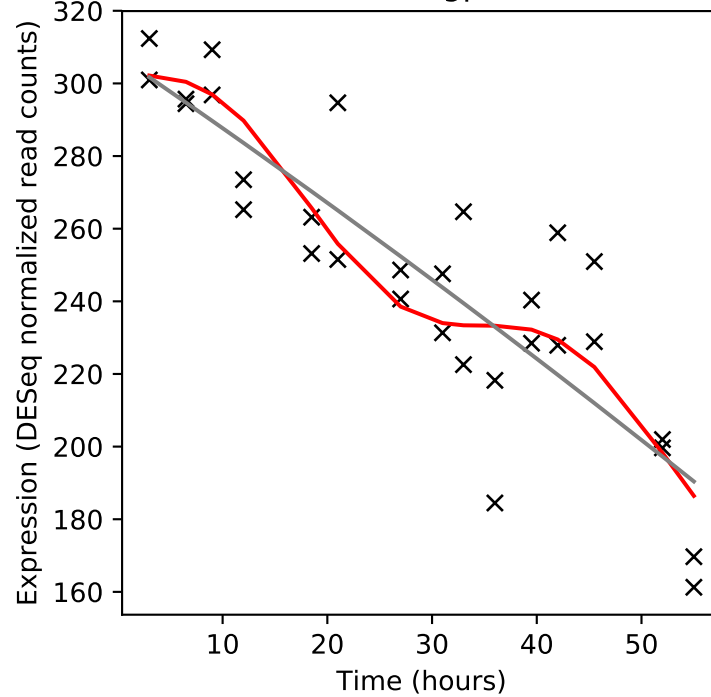
Rv0487/-



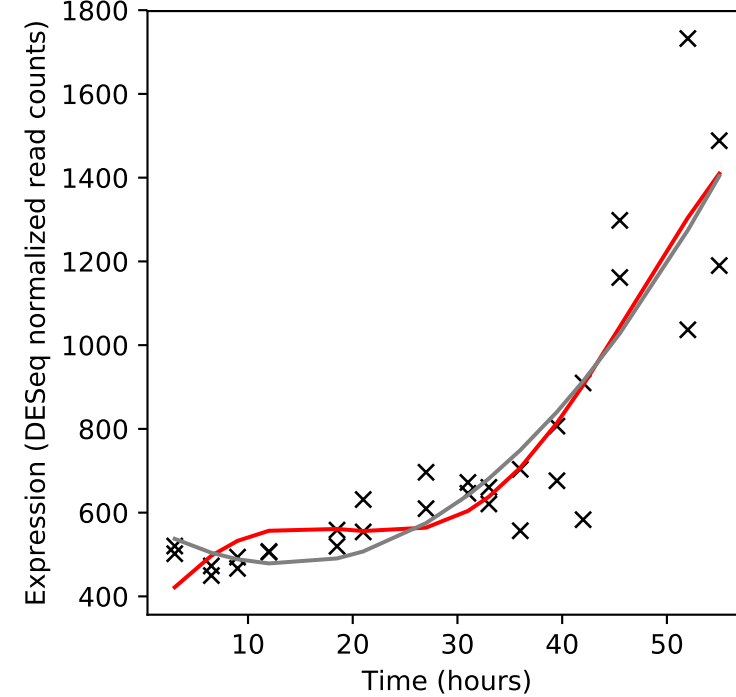
Rv0488/-



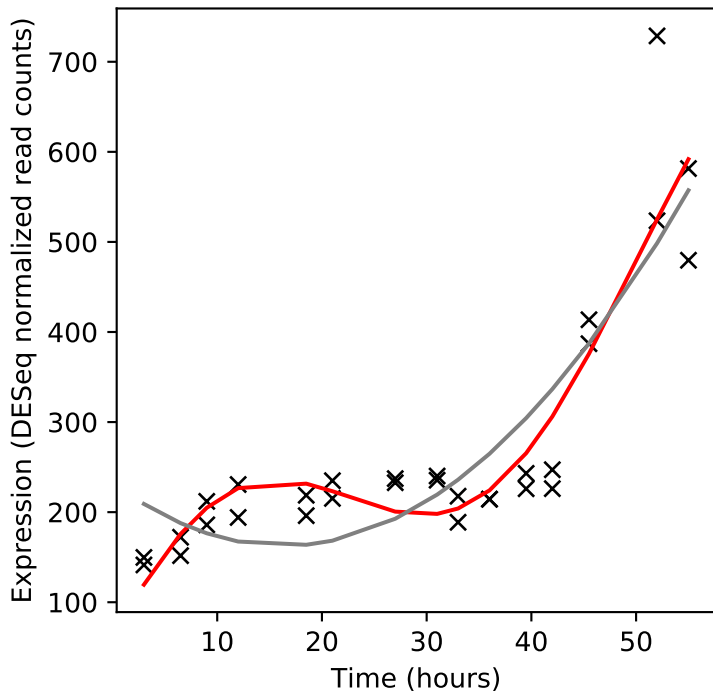
Rv0489/gpm1



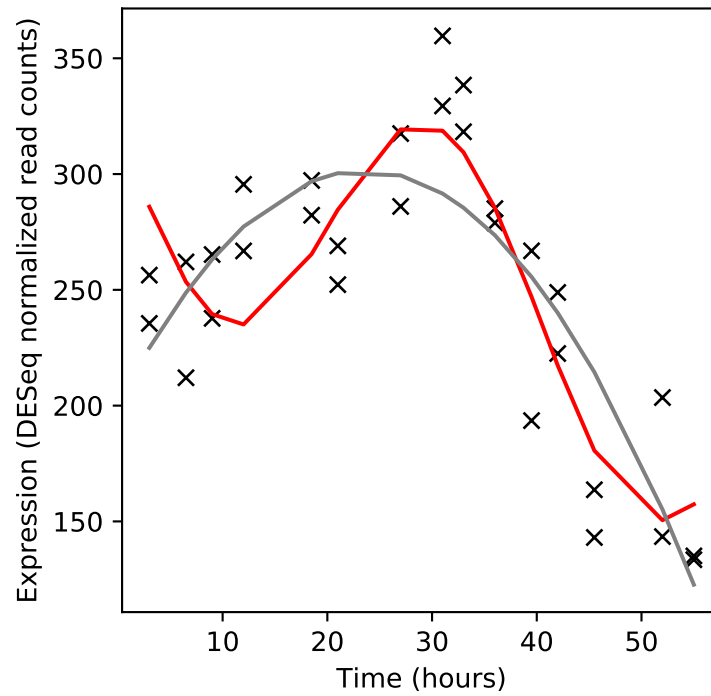
Rv0490/senX3



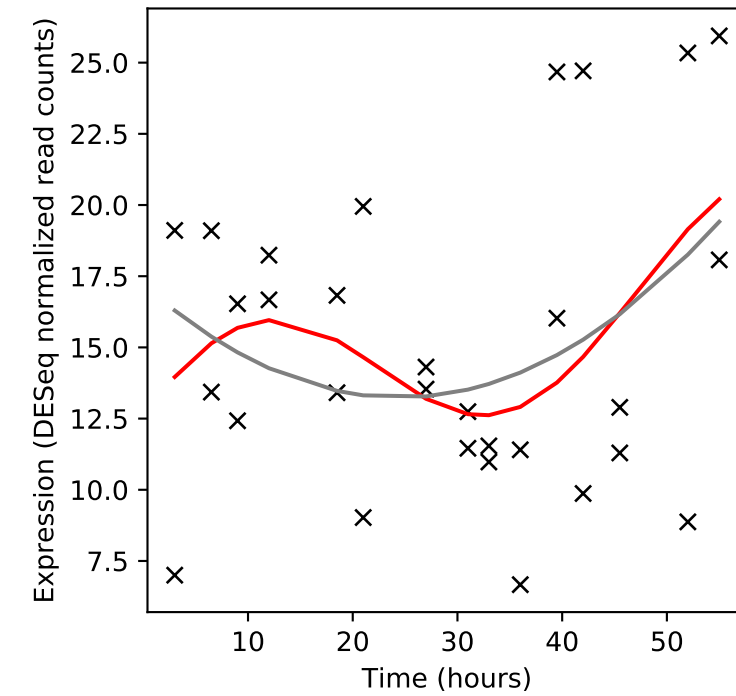
Rv0491/regX3



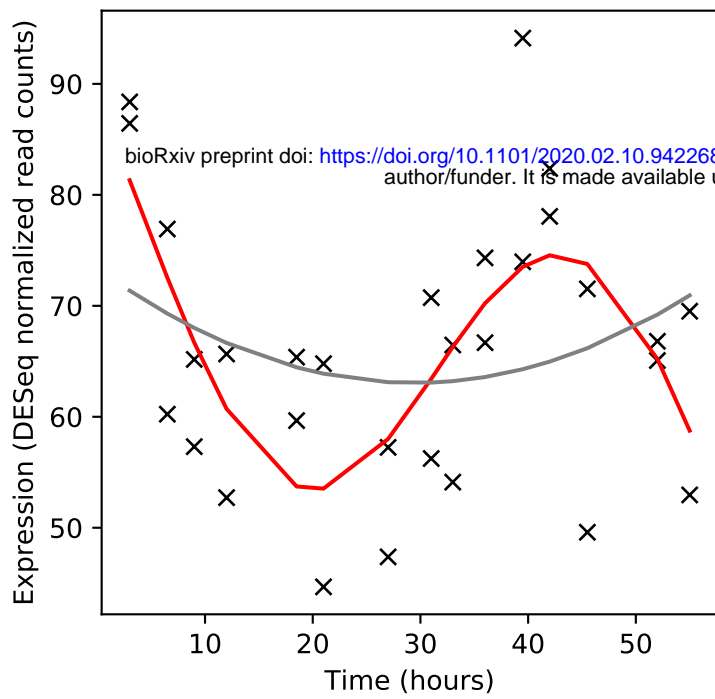
Rv0492c/-



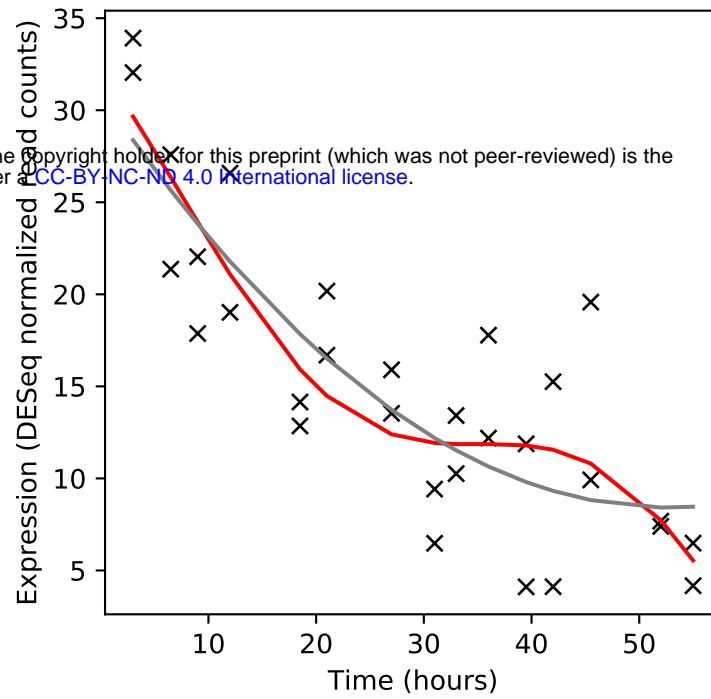
Rv0492A/-



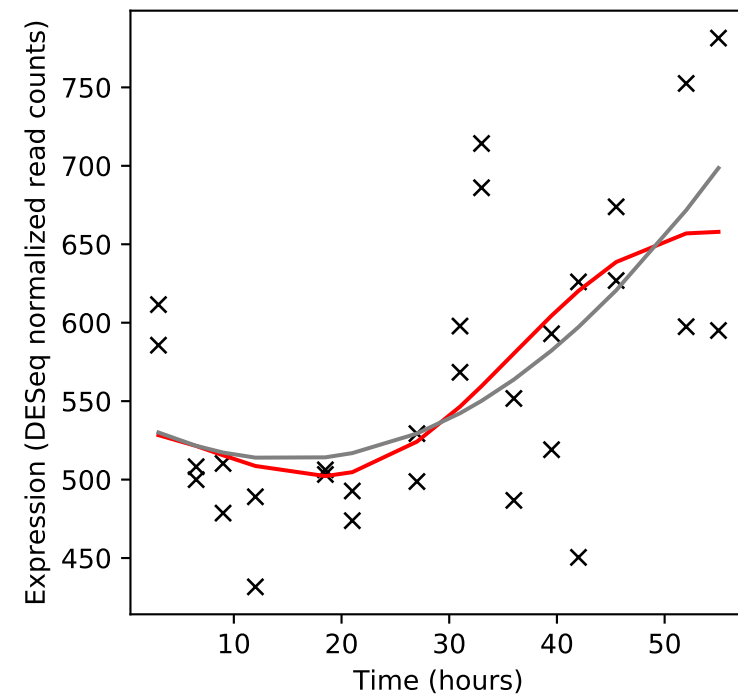
Rv0493c/-



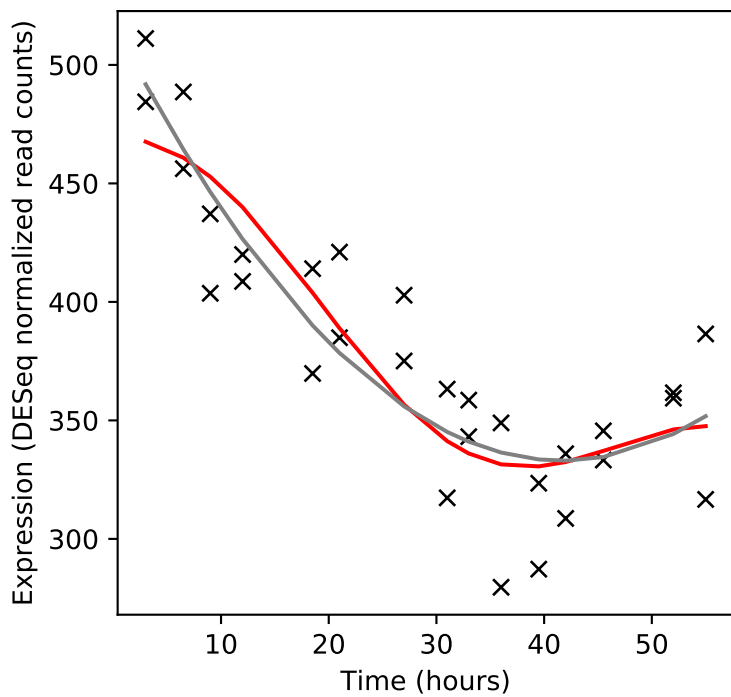
Rv0494/-



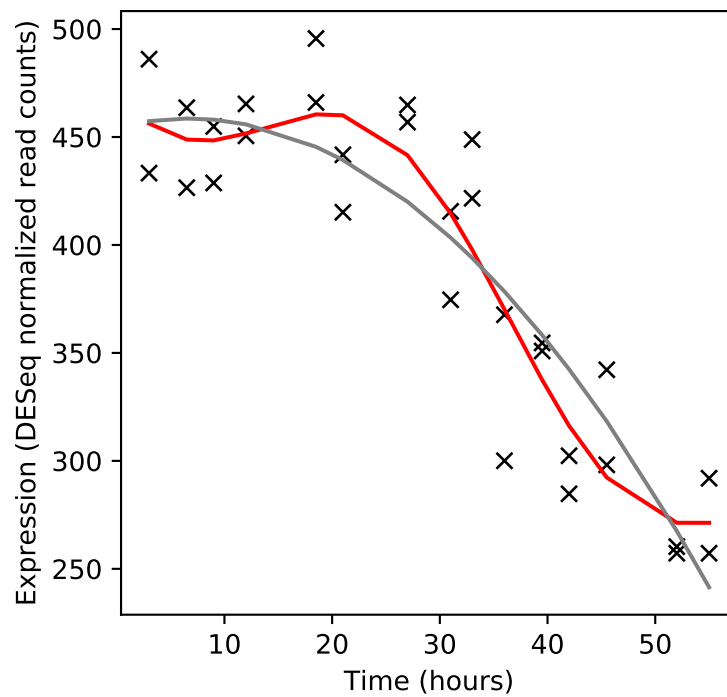
Rv0495c/-



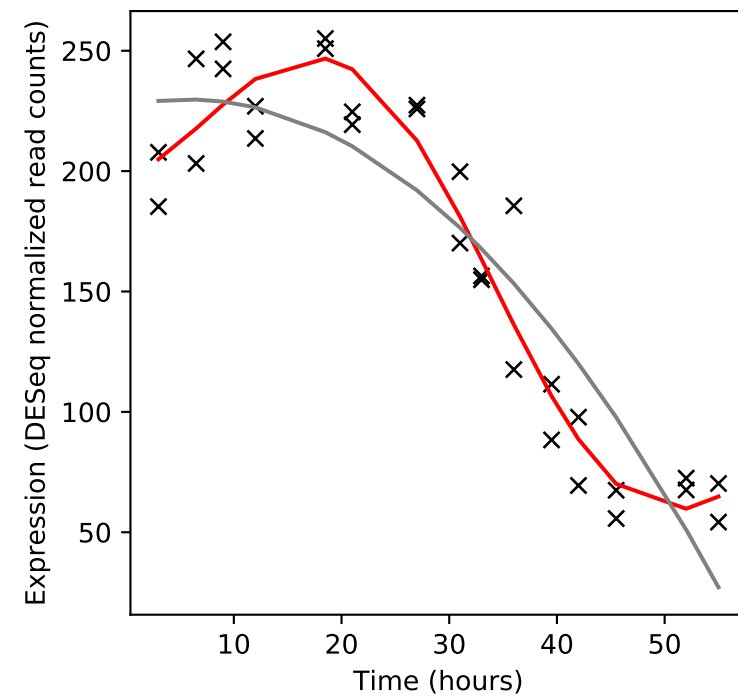
Rv0496/-



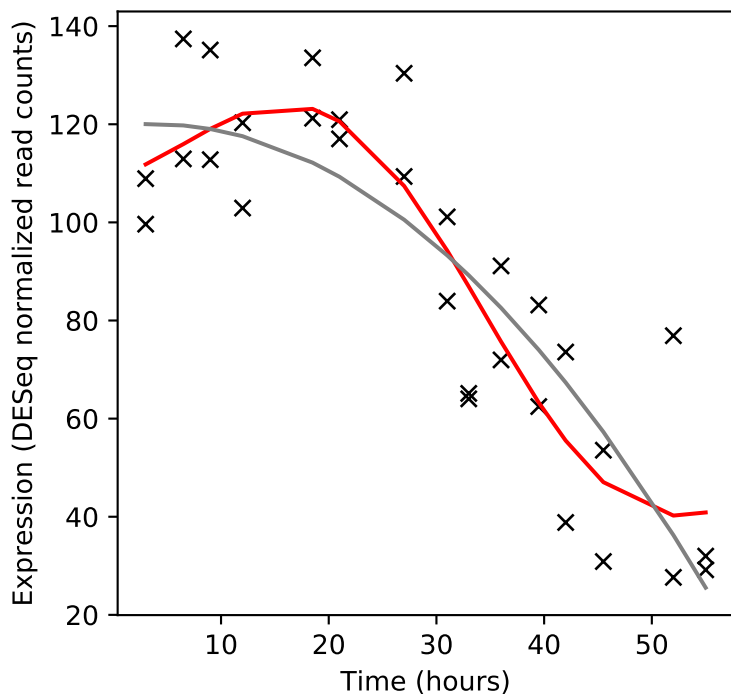
Rv0497/-



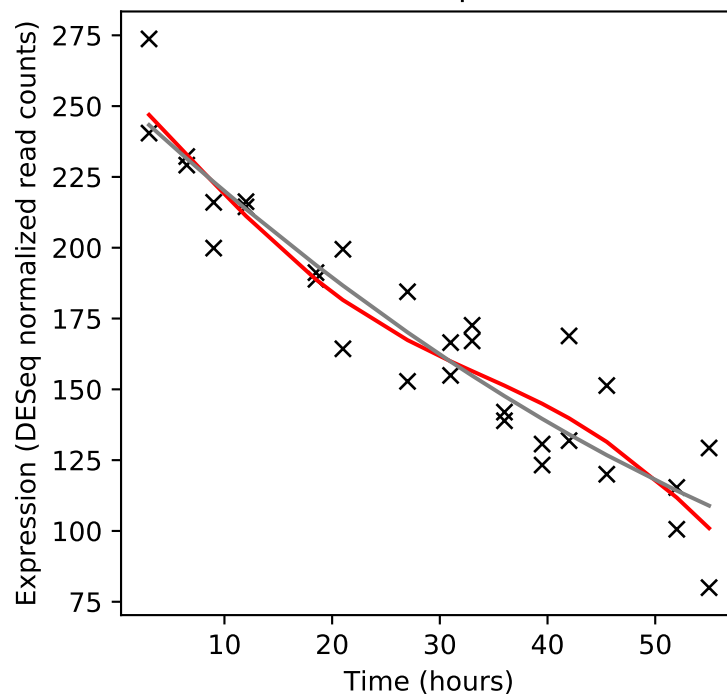
Rv0498/-



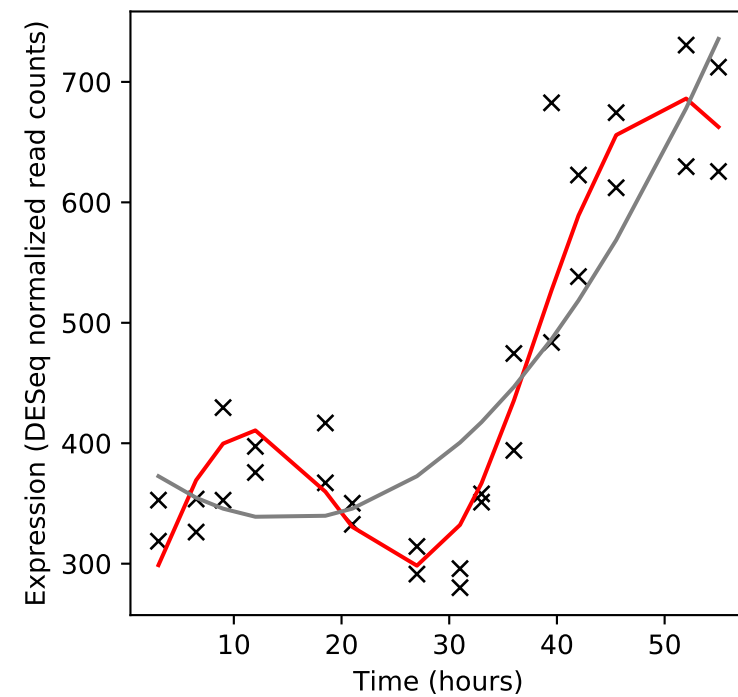
Rv0499/-



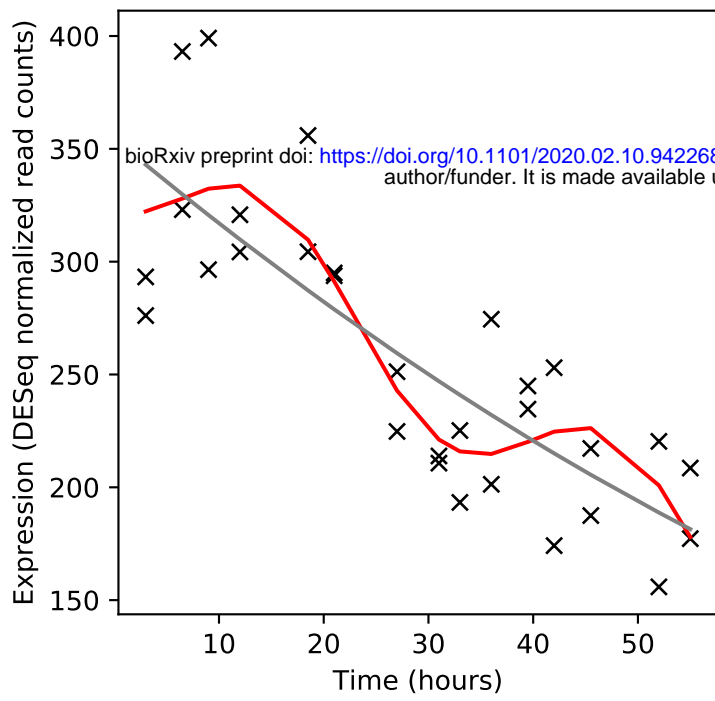
Rv0500/proC



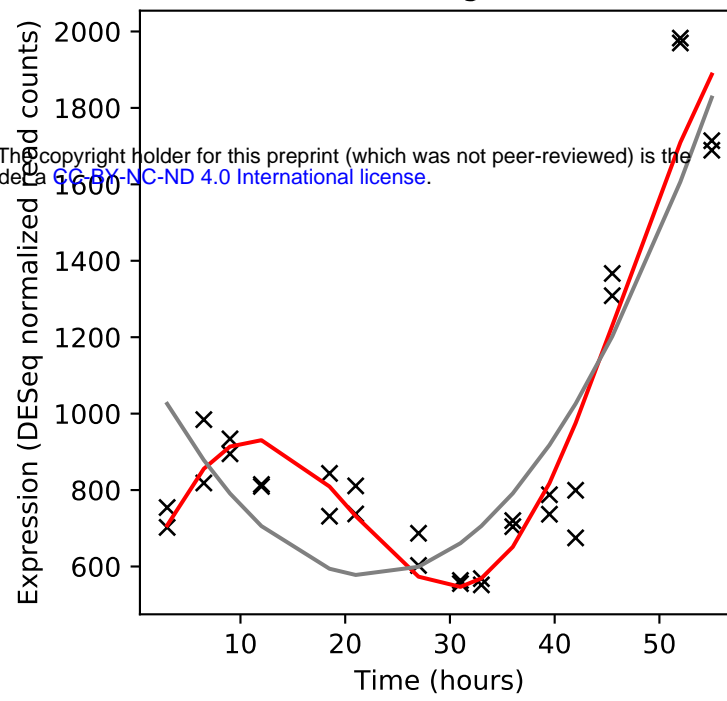
Rv0500A/-



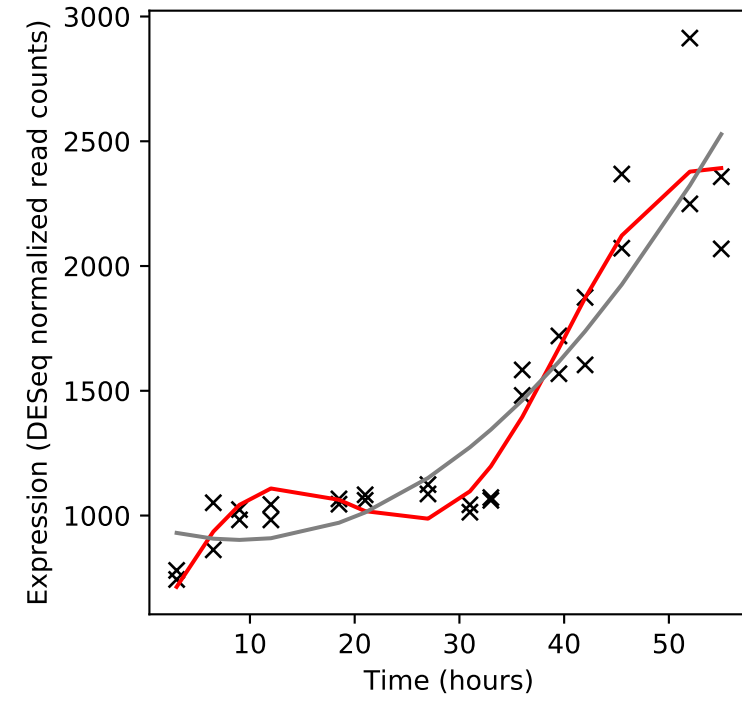
Rv0500B/-



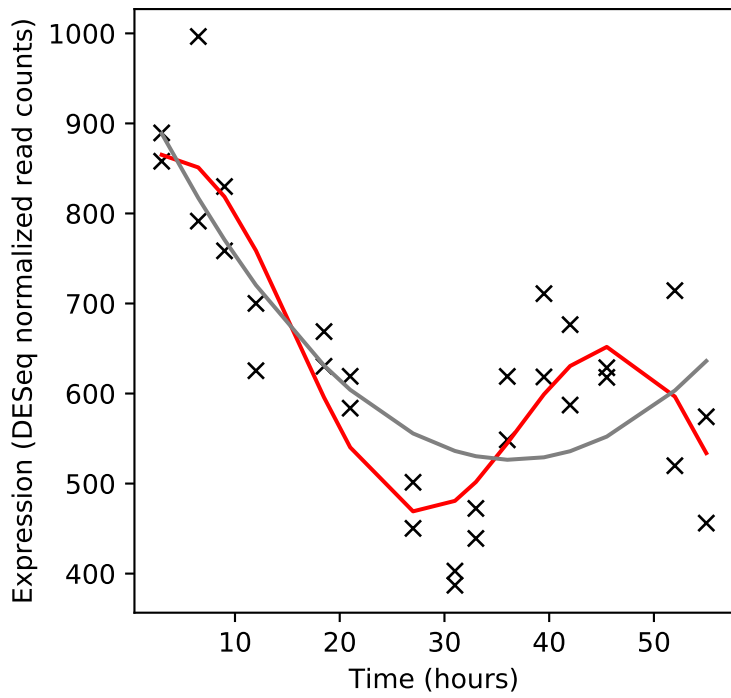
Rv0501/galE2



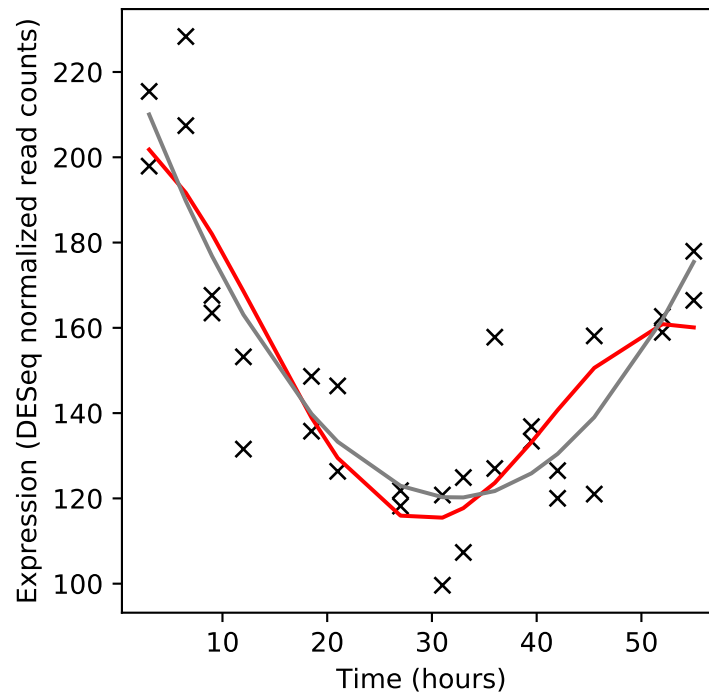
Rv0502/-



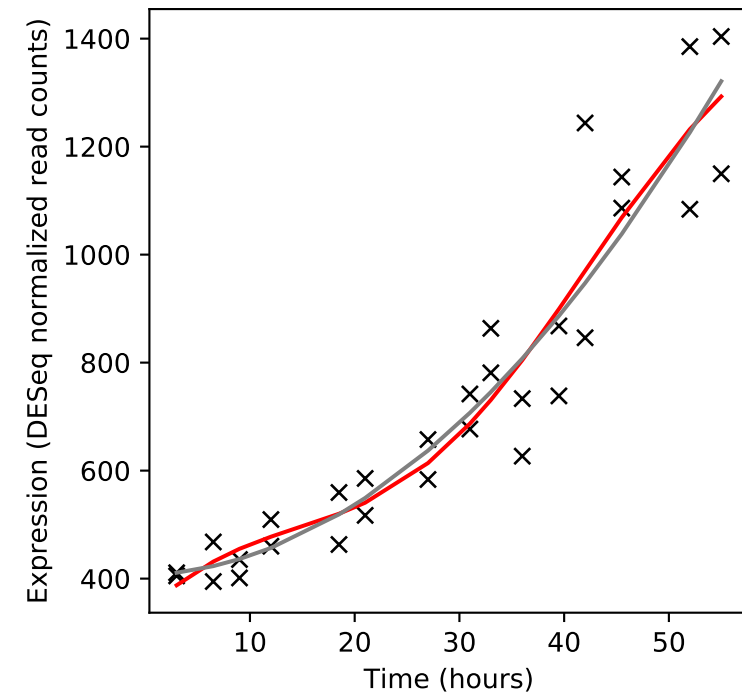
Rv0503c/cmaA2



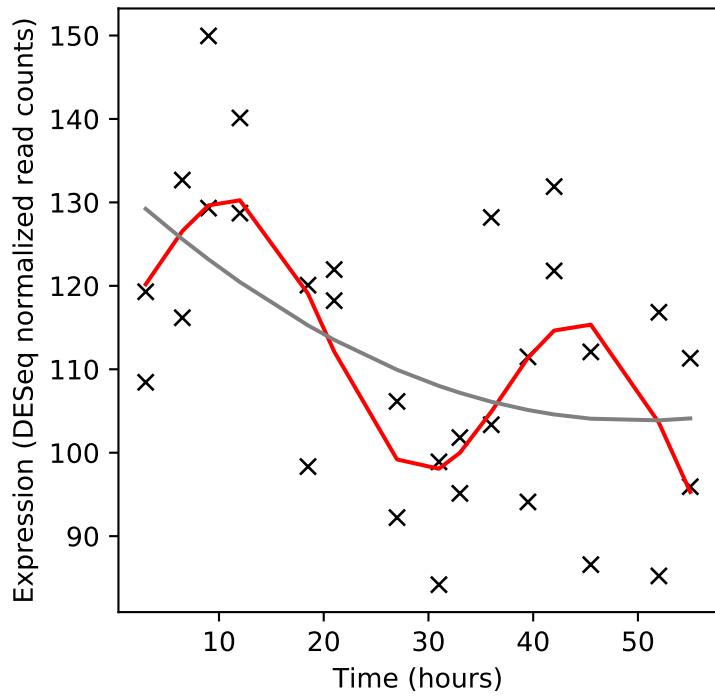
Rv0504c/-



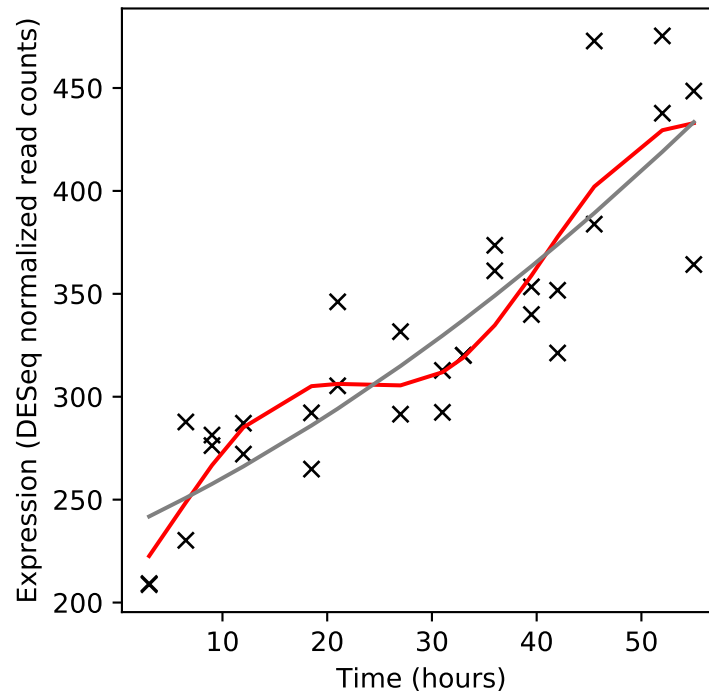
Rv0505c/serB1



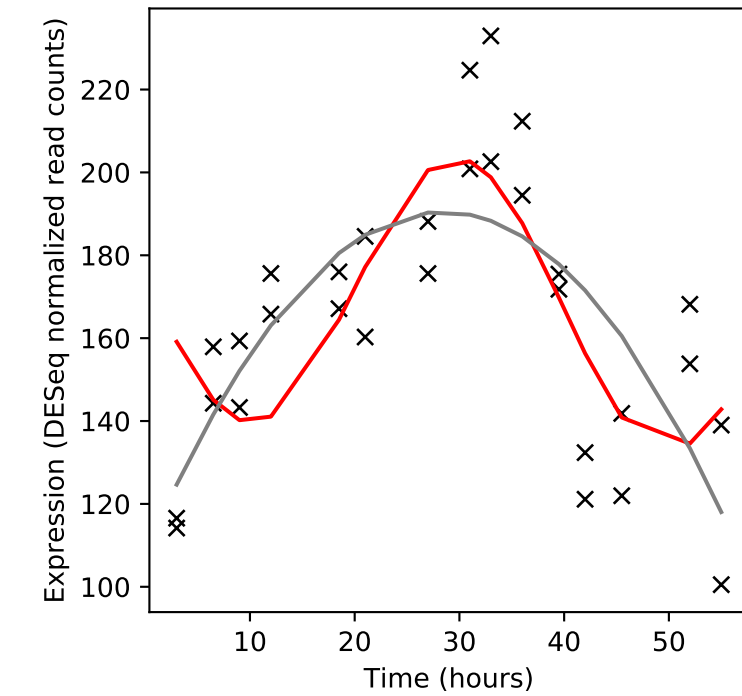
Rv0506/mmpS2



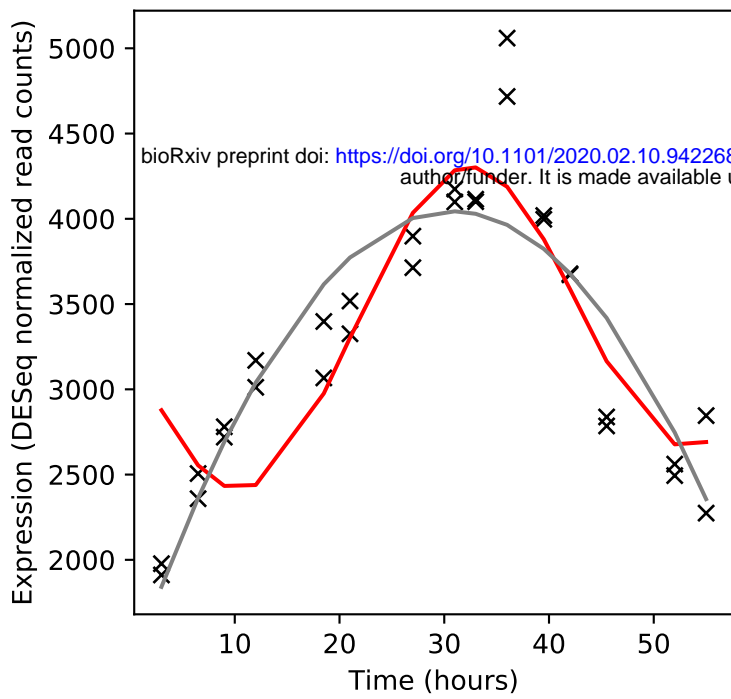
Rv0507/mmpL2



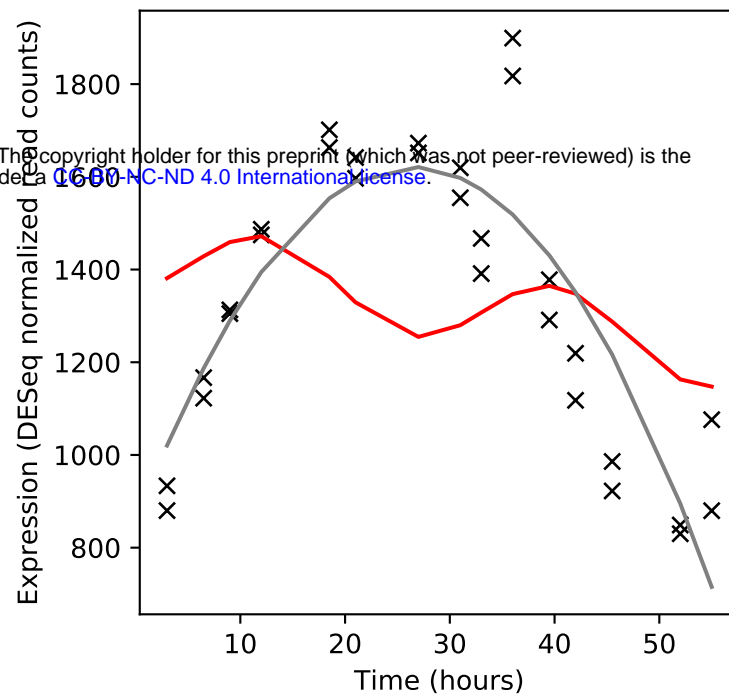
Rv0508/-



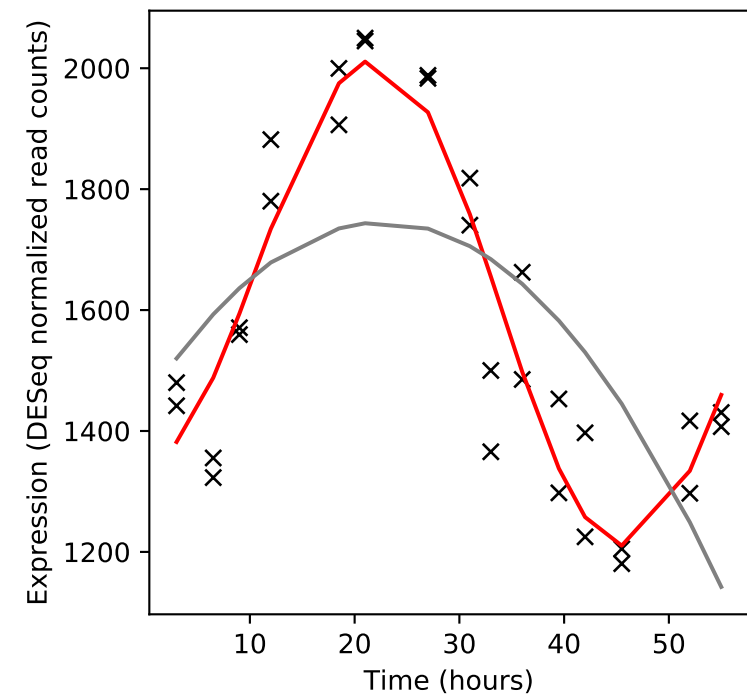
Rv0509/hemA



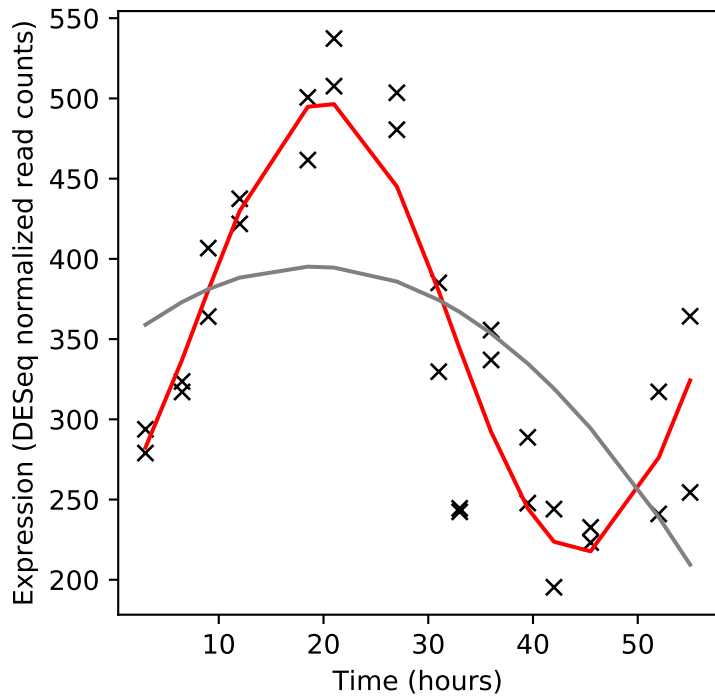
Rv0510/hemC



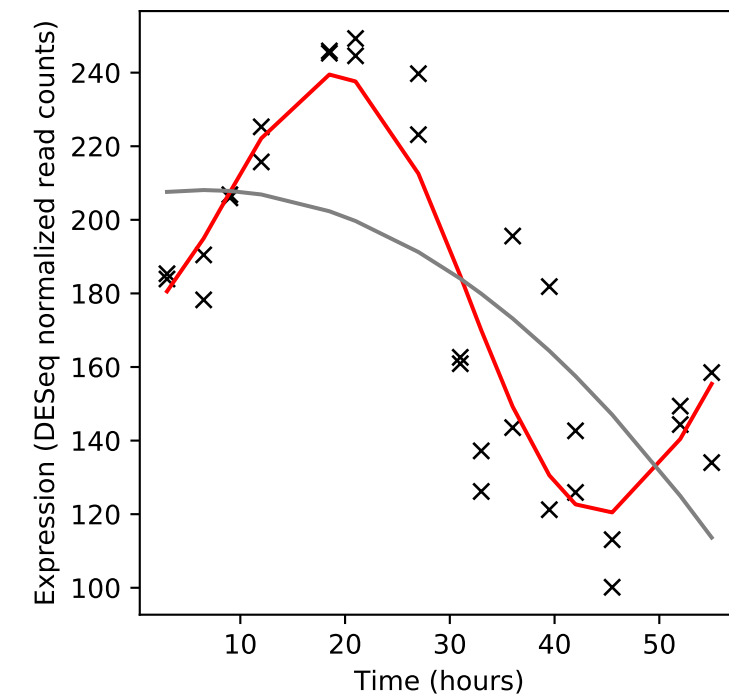
Rv0511/hemD



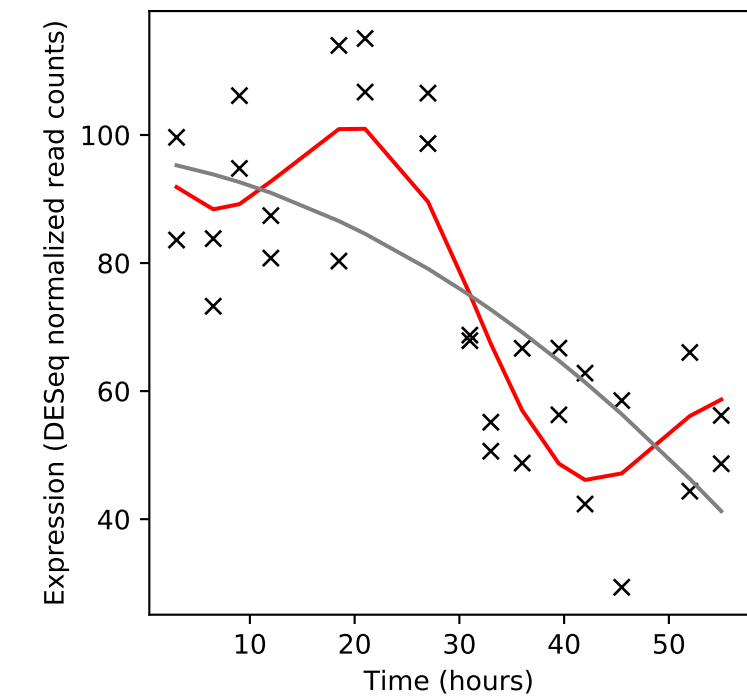
Rv0512/hemB



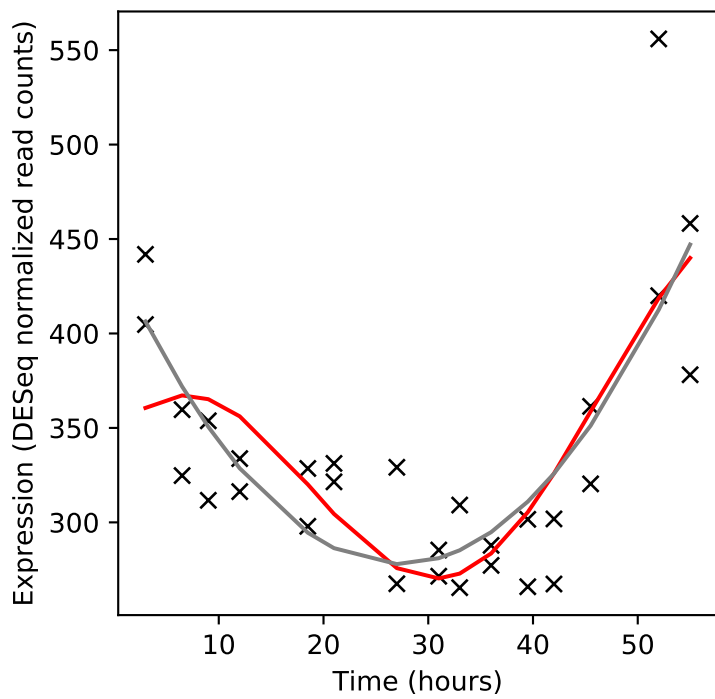
Rv0513/-



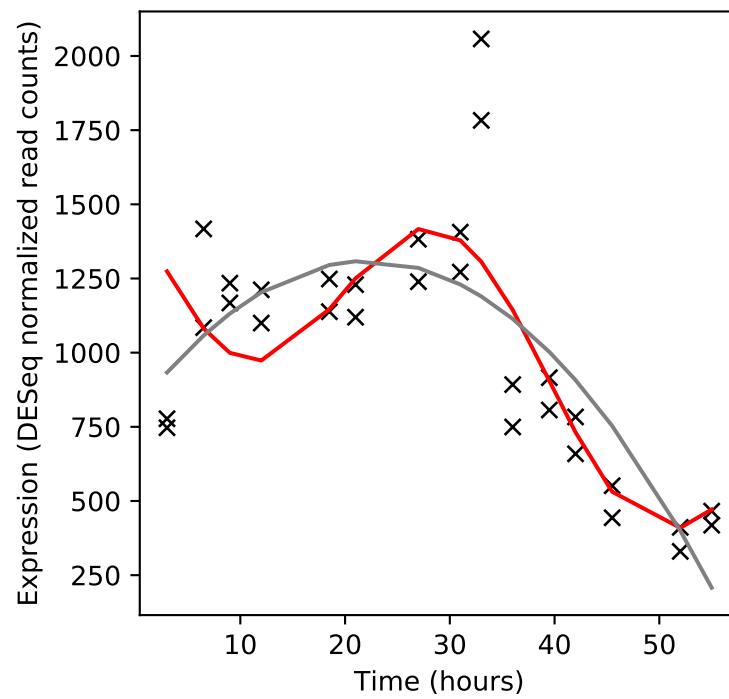
Rv0514/-



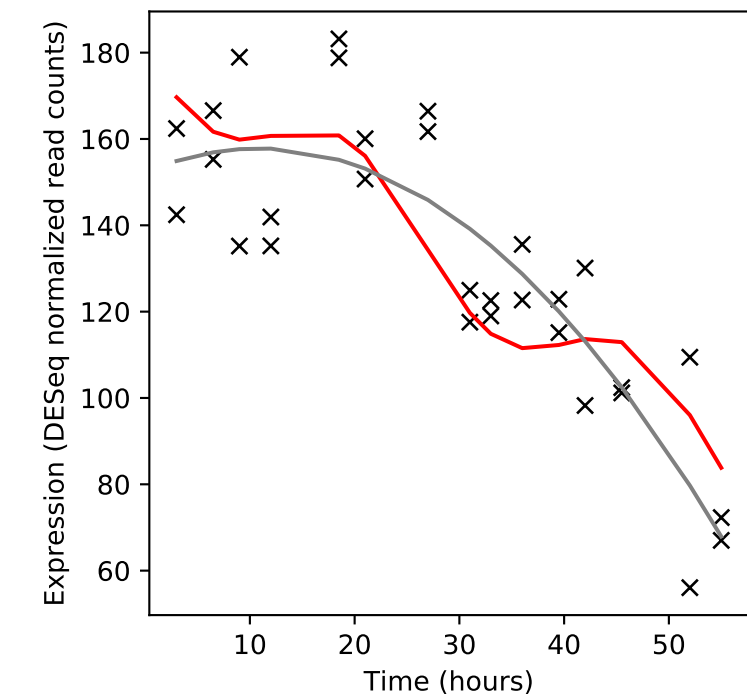
Rv0515/-



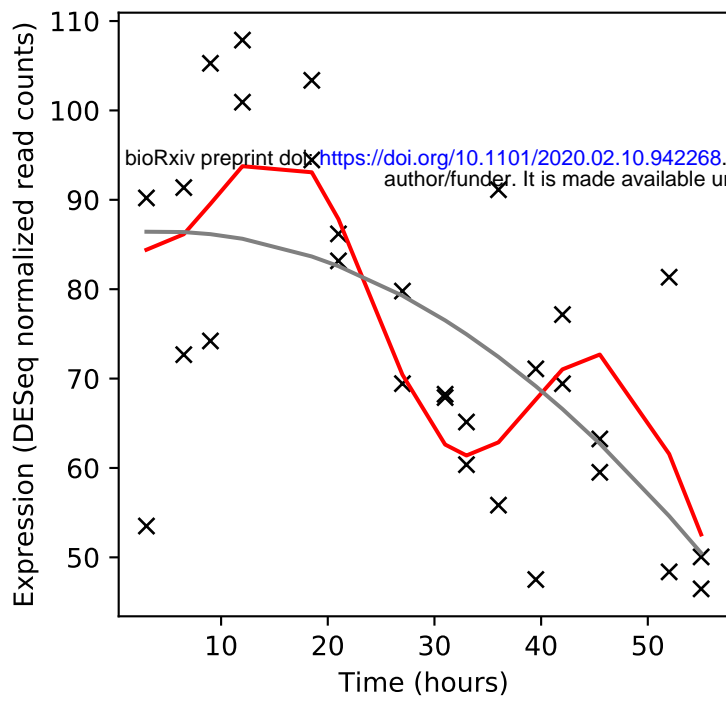
Rv0516c/-



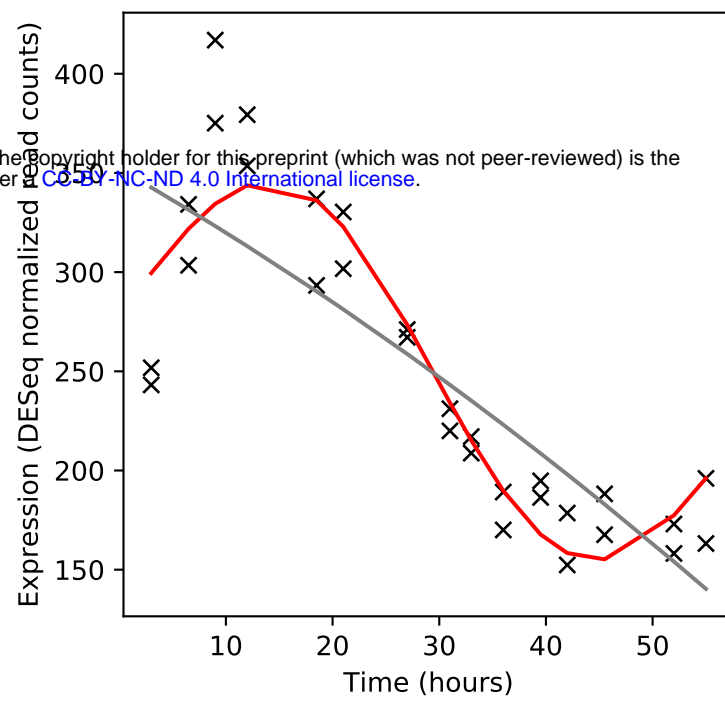
Rv0517/-



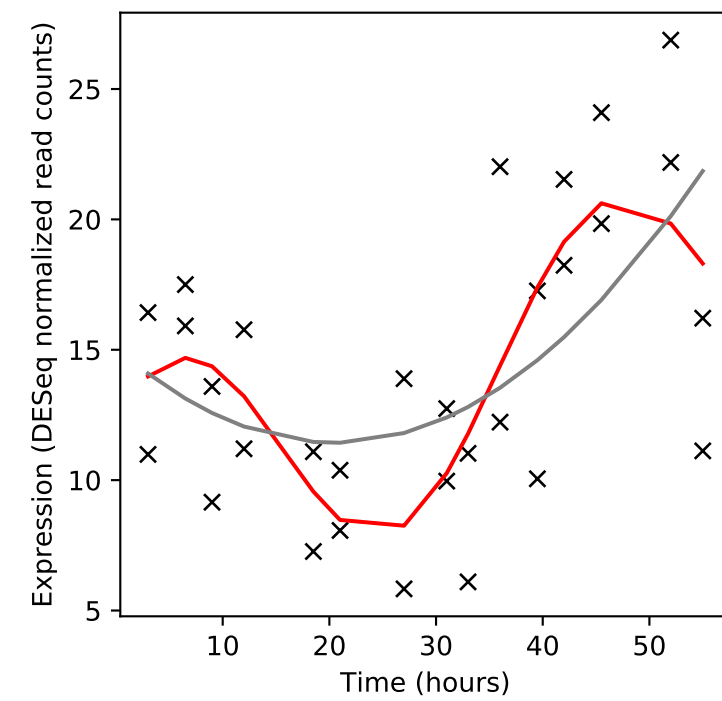
Rv0518/-



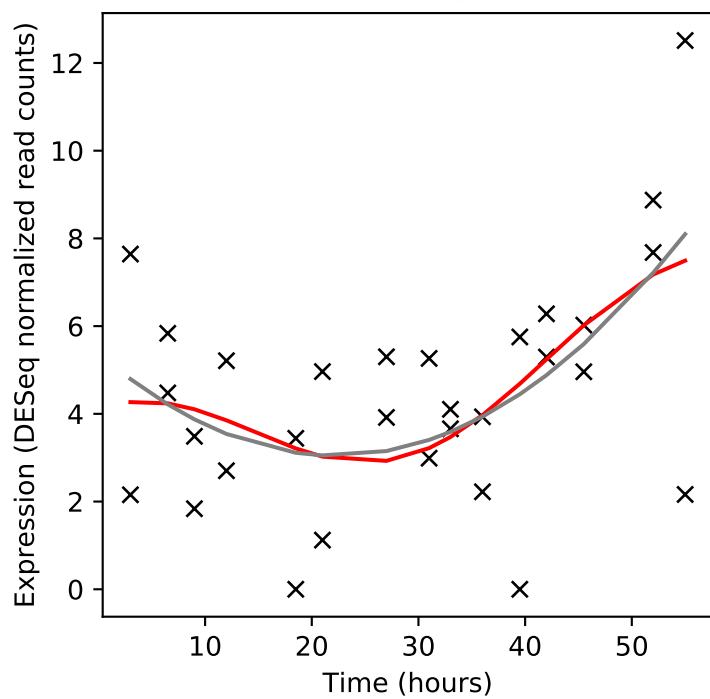
Rv0519c/-



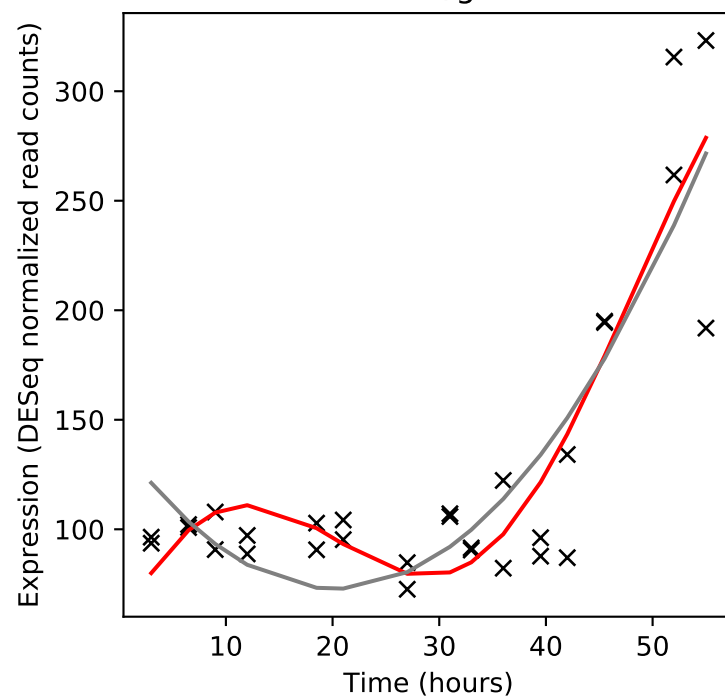
Rv0520/-



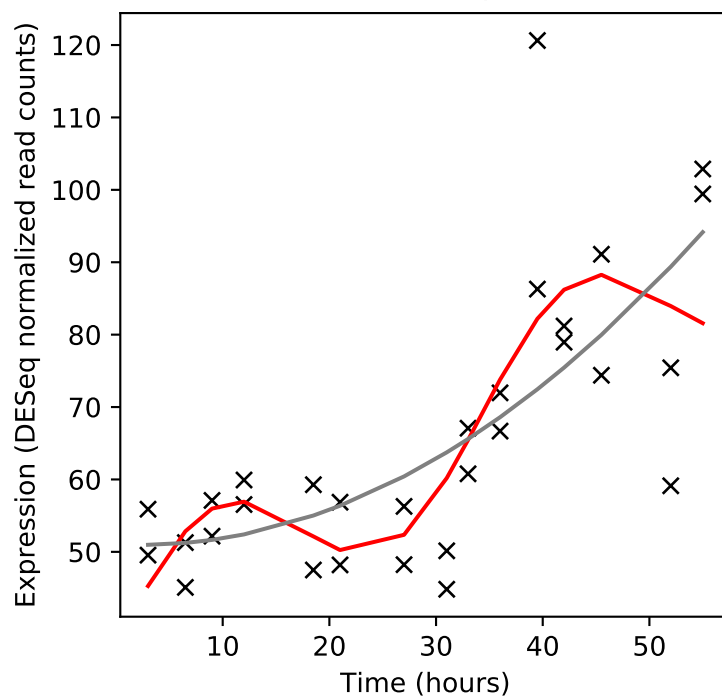
Rv0521/-



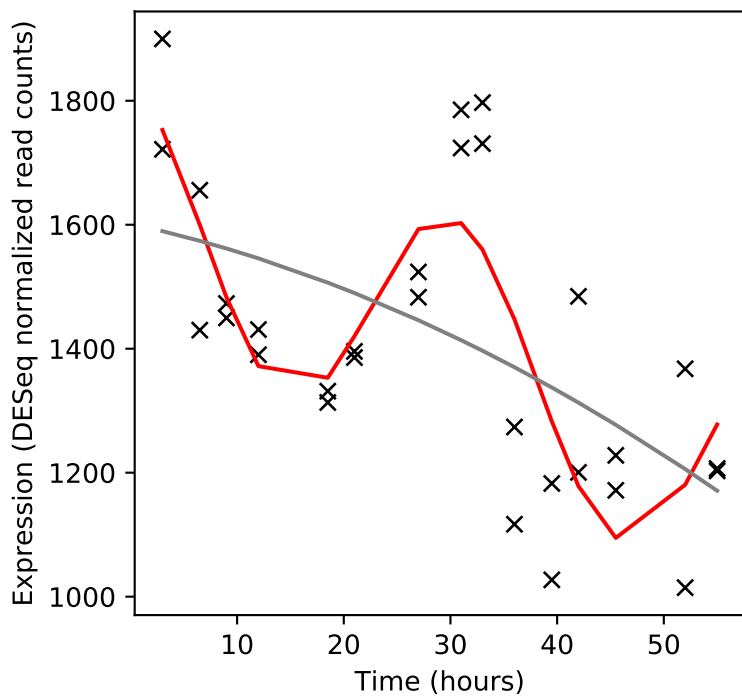
Rv0522/gabP



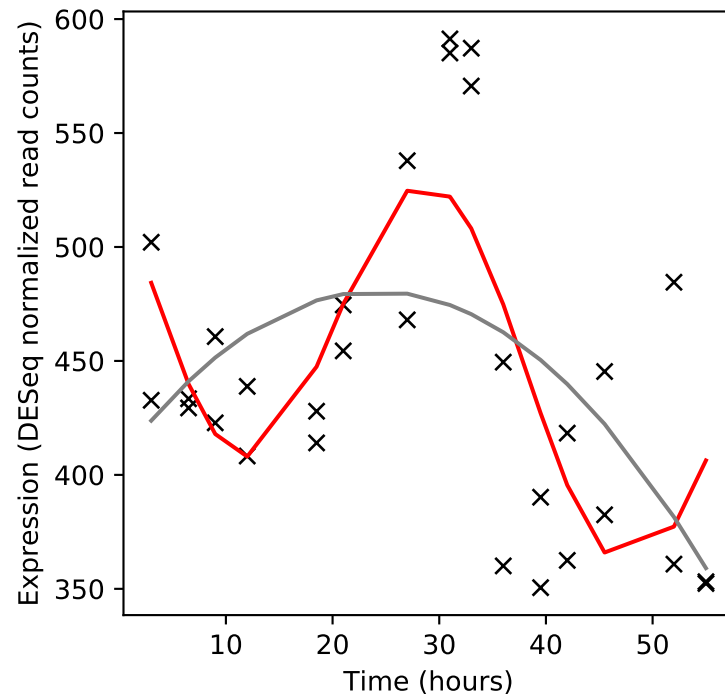
Rv0523c/-



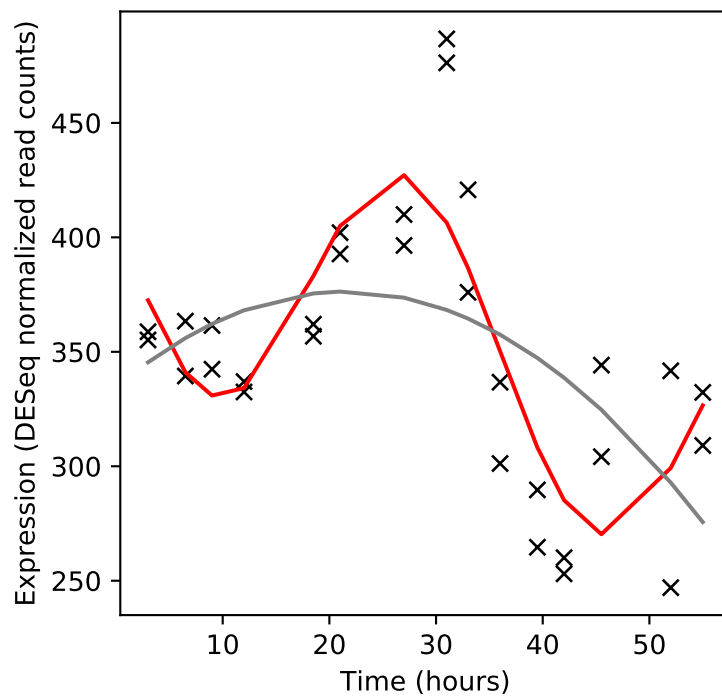
Rv0524/hemL



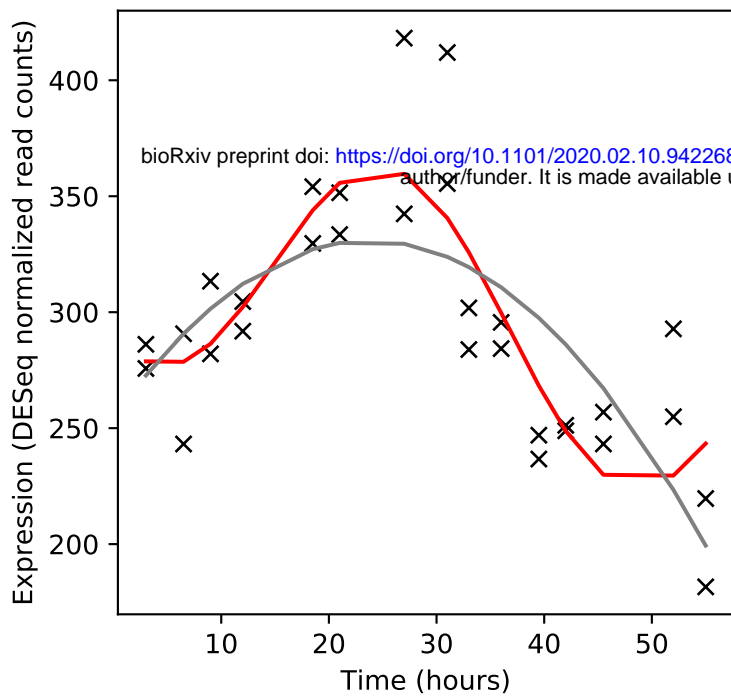
Rv0525/-



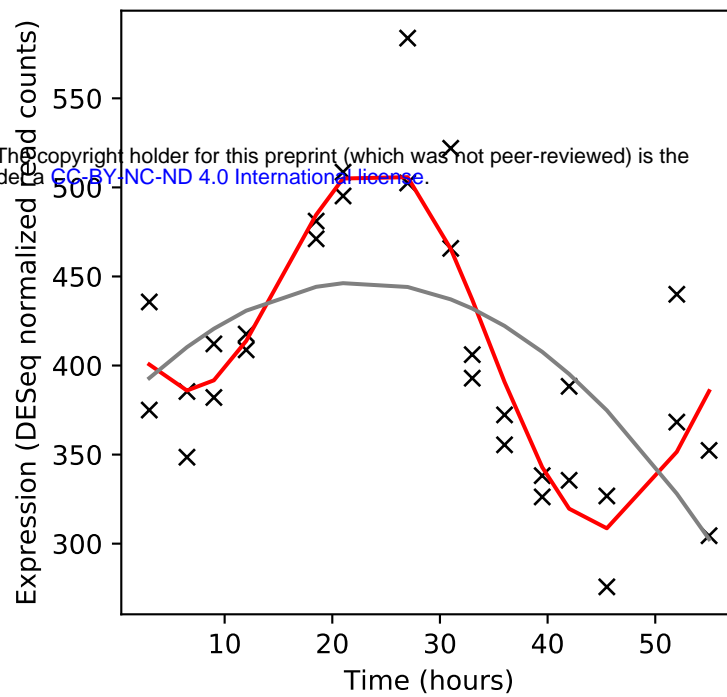
Rv0526/-



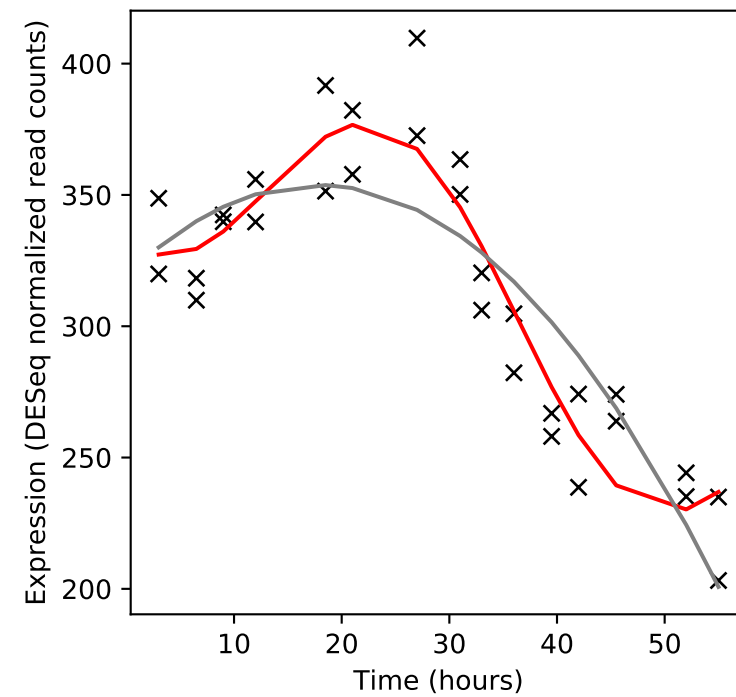
Rv0527/ccdA



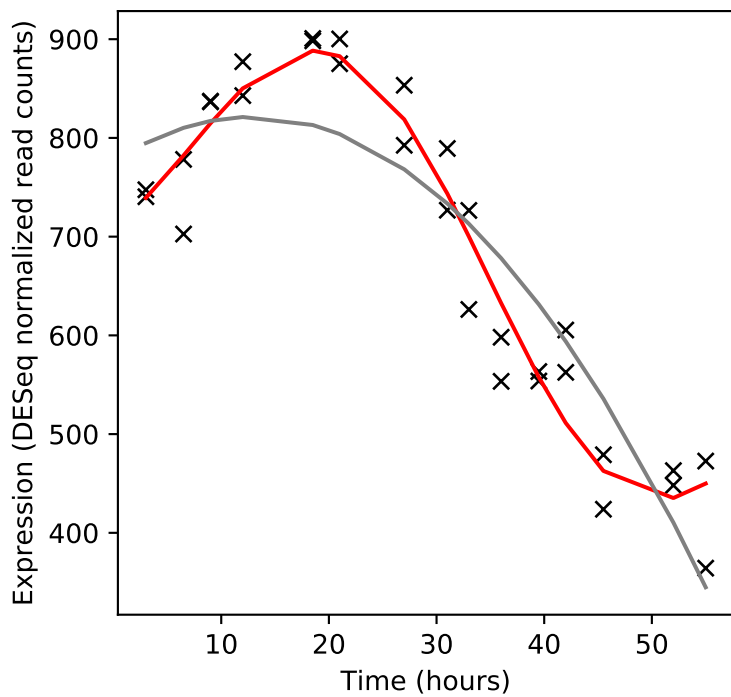
Rv0528/-



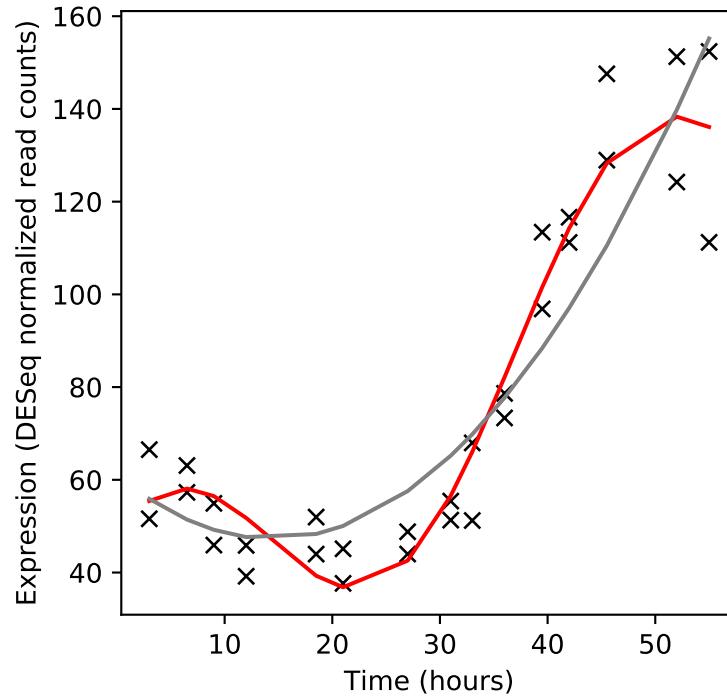
Rv0529/ccsA



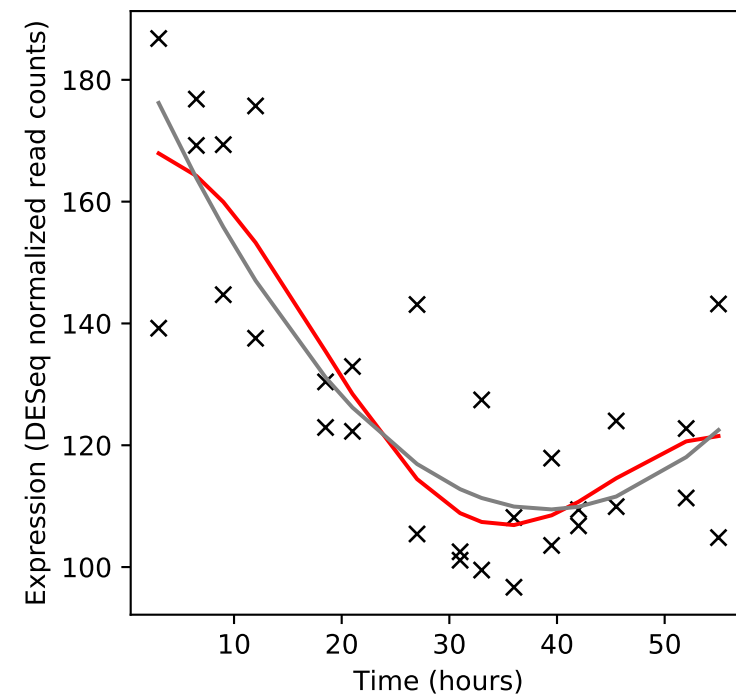
Rv0530/-



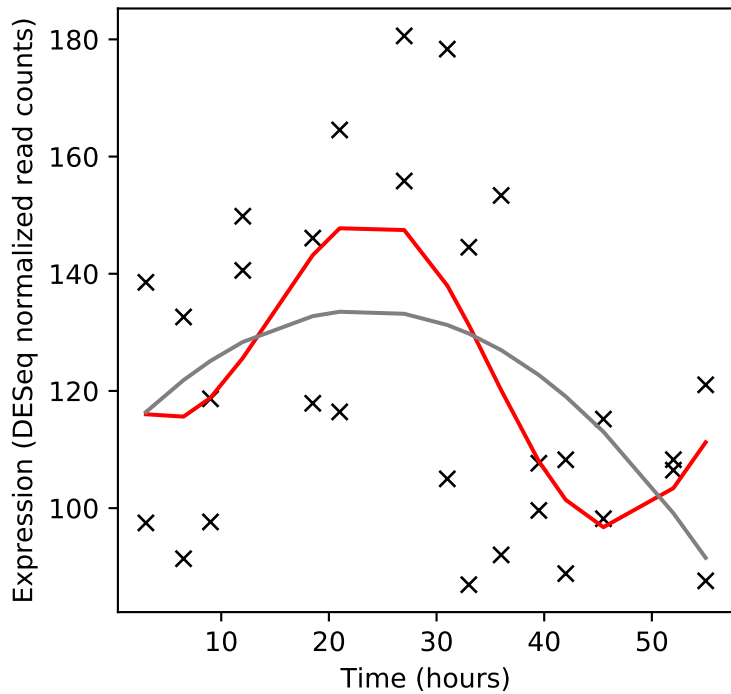
Rv0530A/-



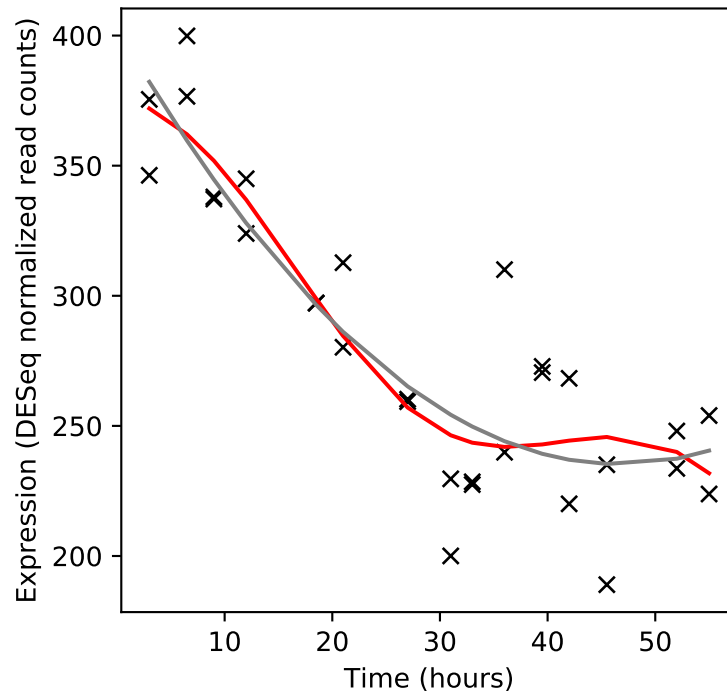
Rv0531/-



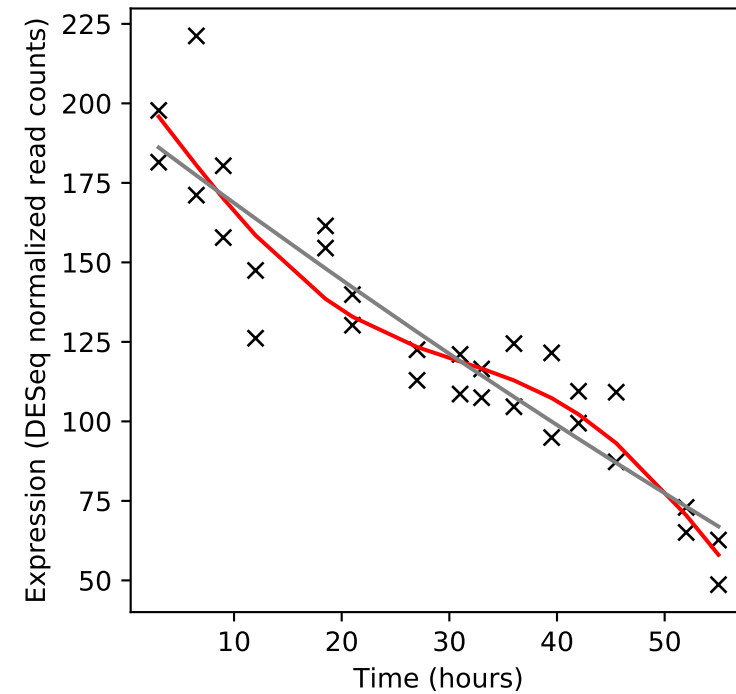
Rv0532/PE_PGRS6



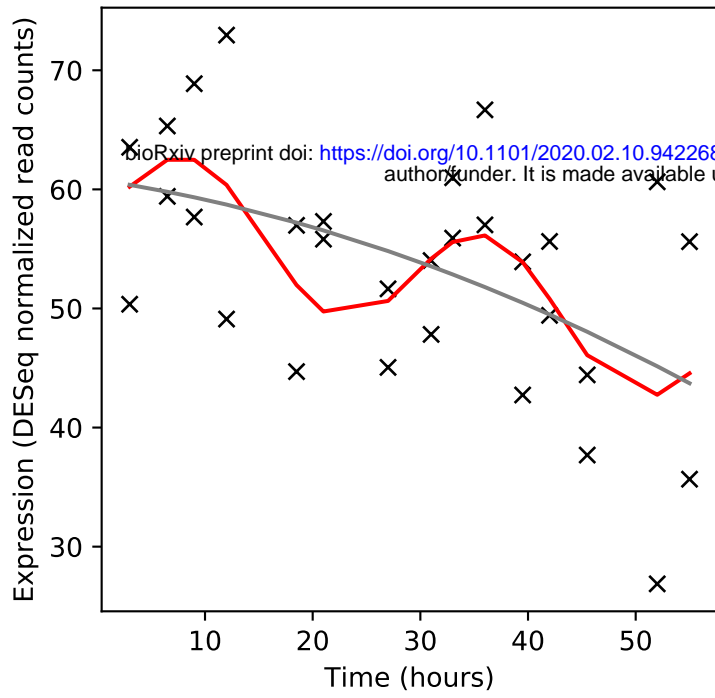
Rv0533c/fabH



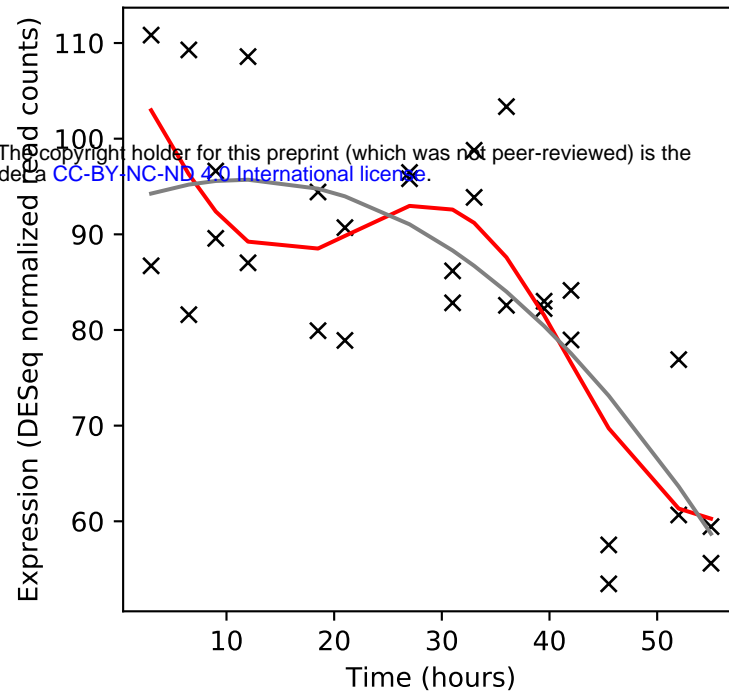
Rv0534c/menA



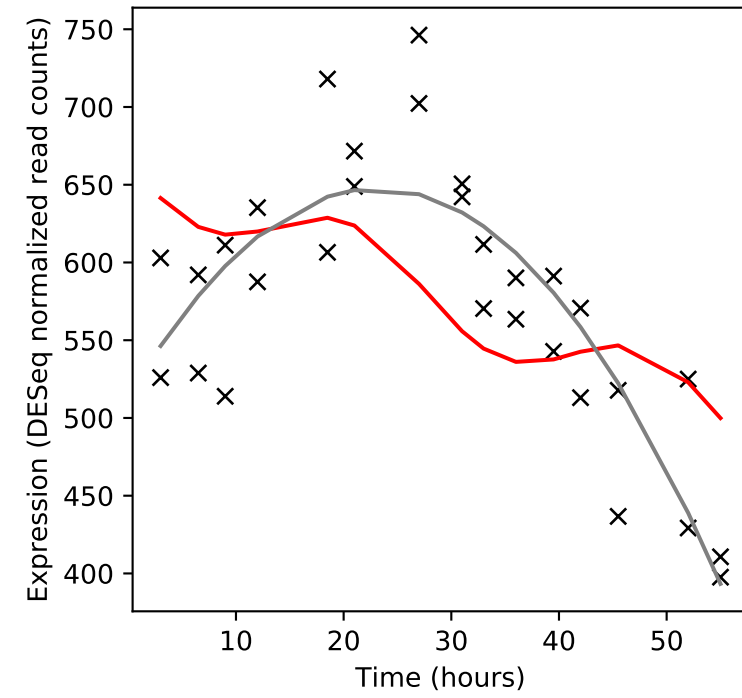
Rv0535/pnp



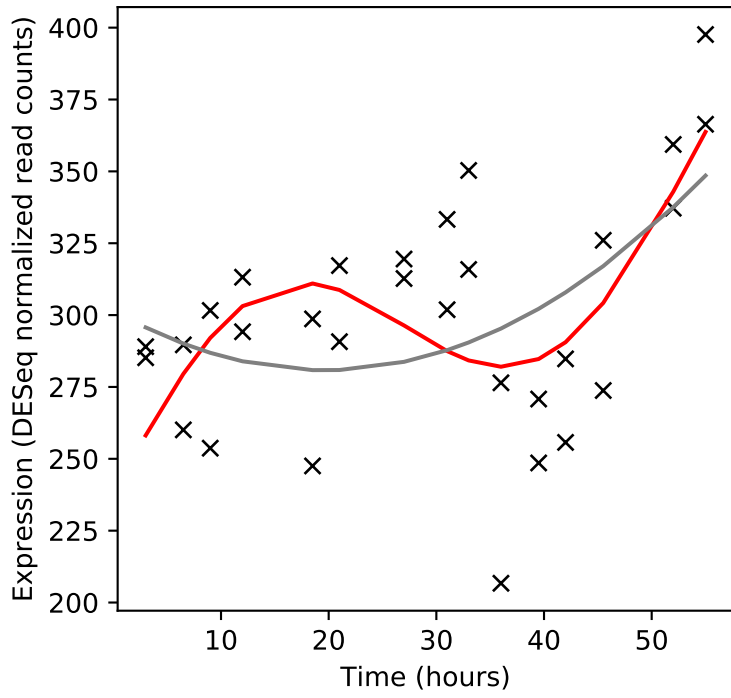
Rv0536/galE3



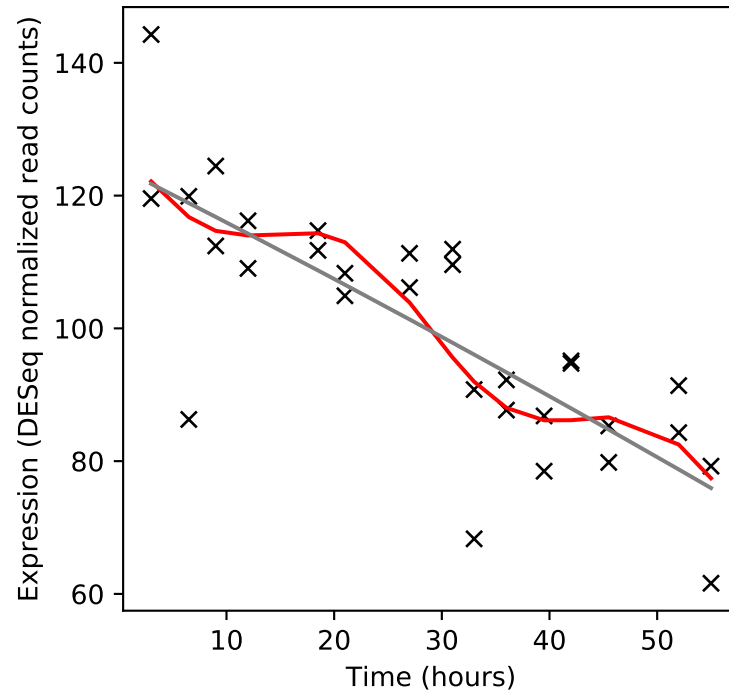
Rv0537c/-



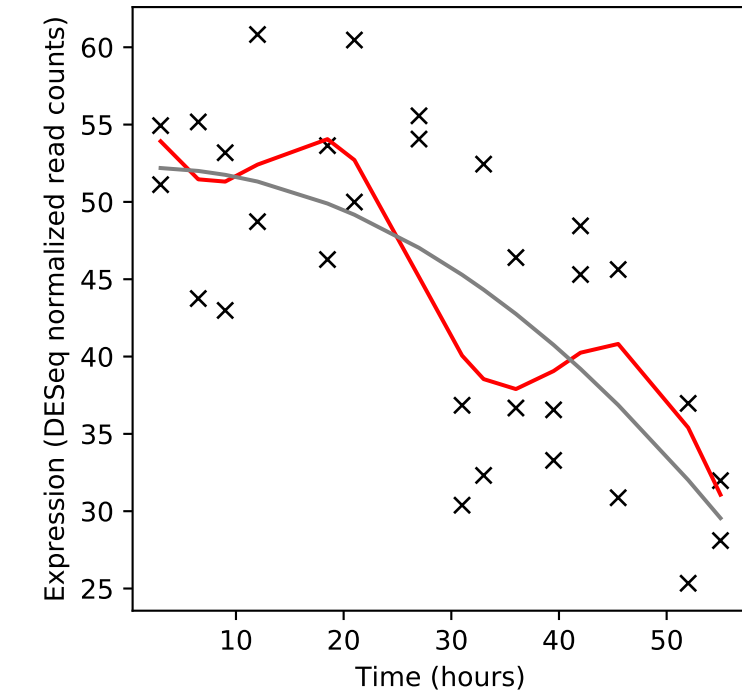
Rv0538/-



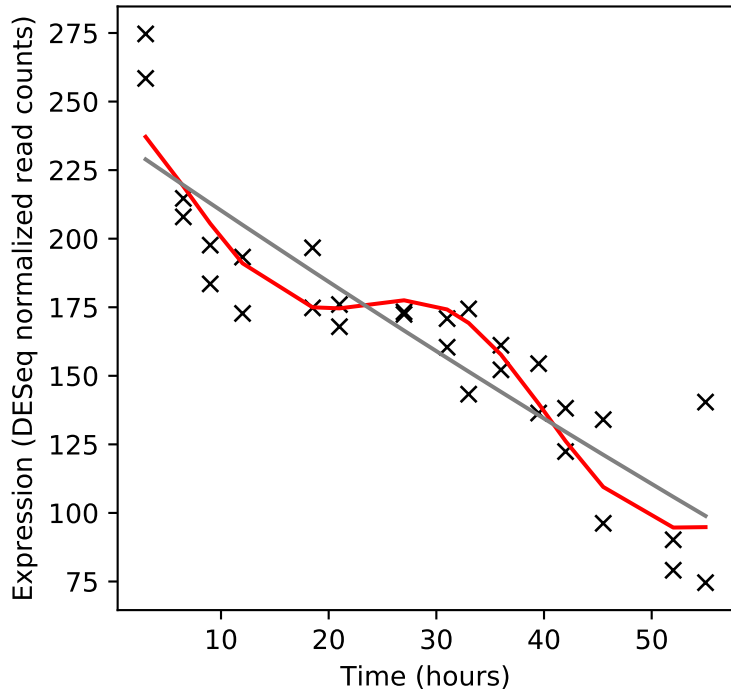
Rv0539/-



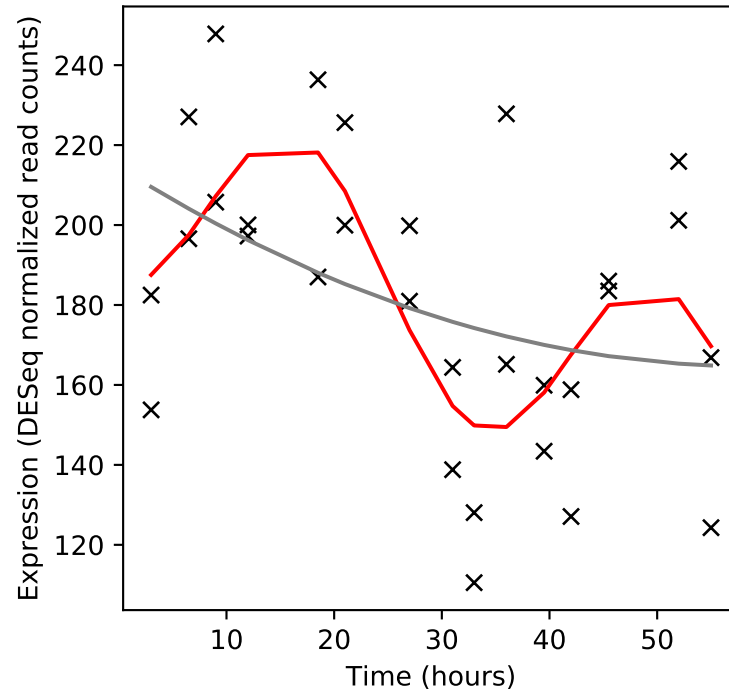
Rv0540/-



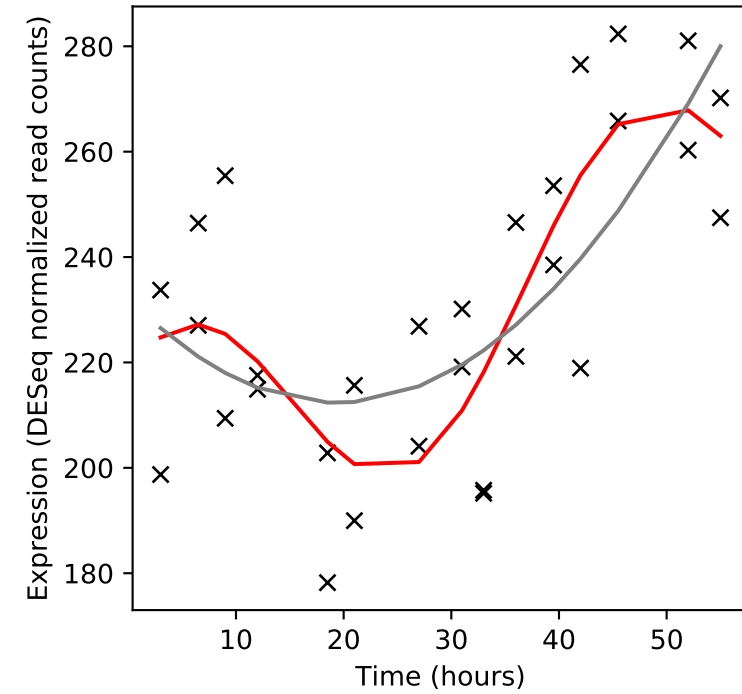
Rv0541c/-



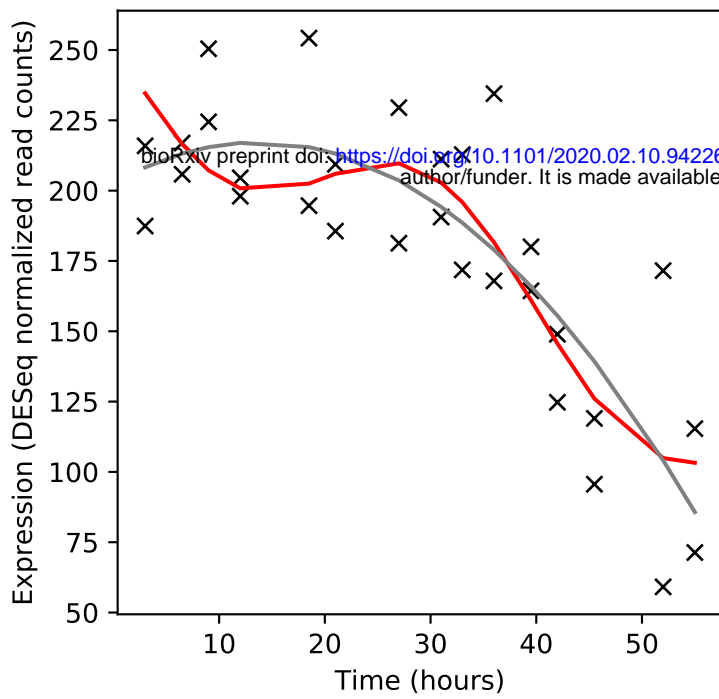
Rv0542c/menE



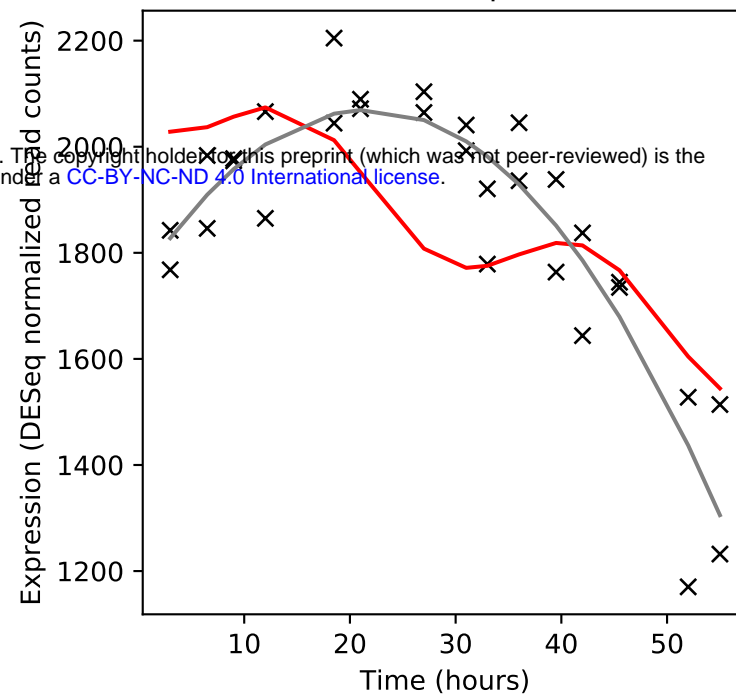
Rv0543c/-



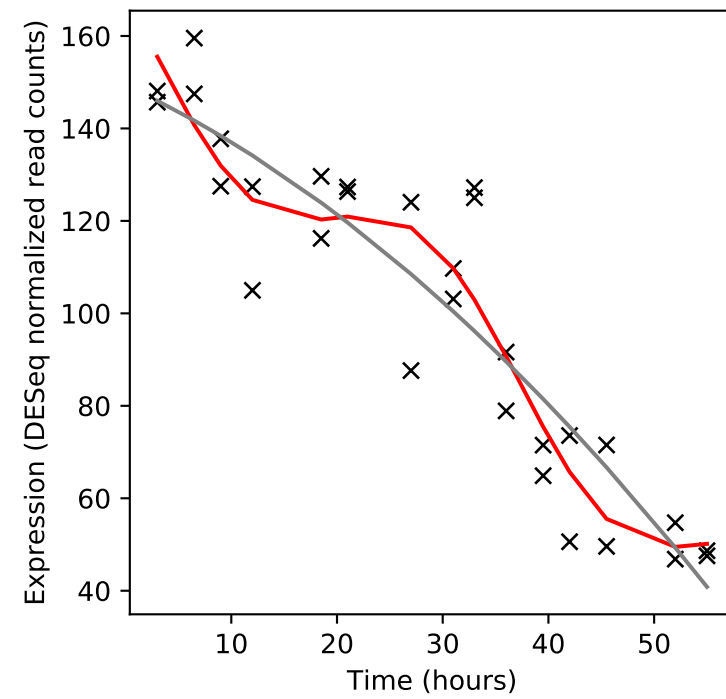
Rv0544c/-



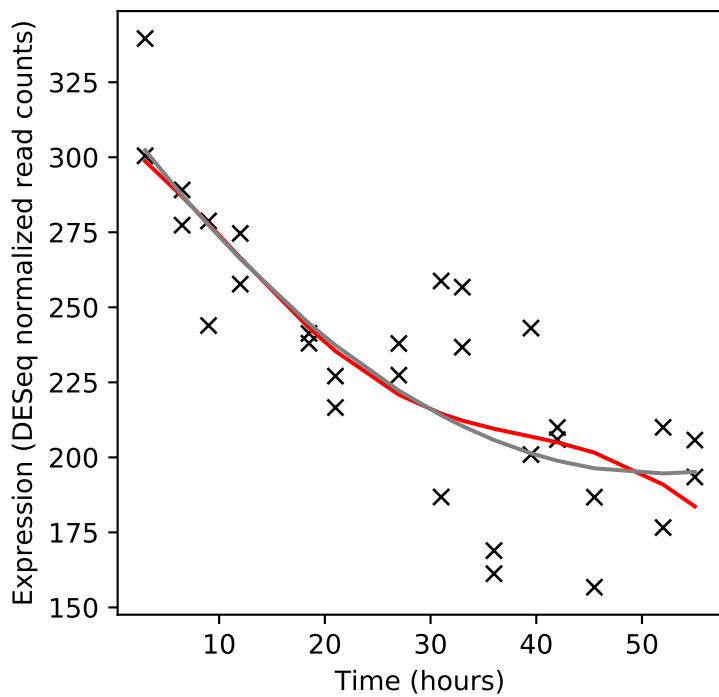
Rv0545c/pitA



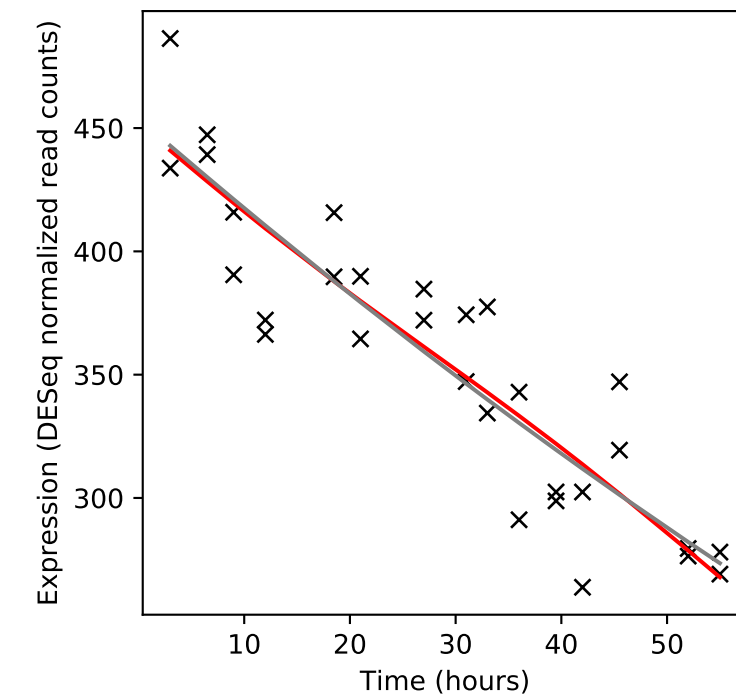
Rv0546c/-



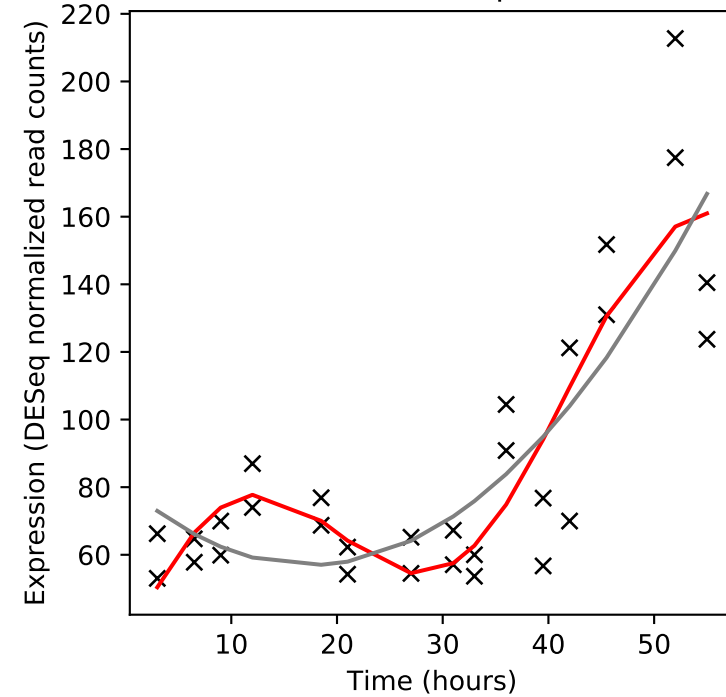
Rv0547c/-



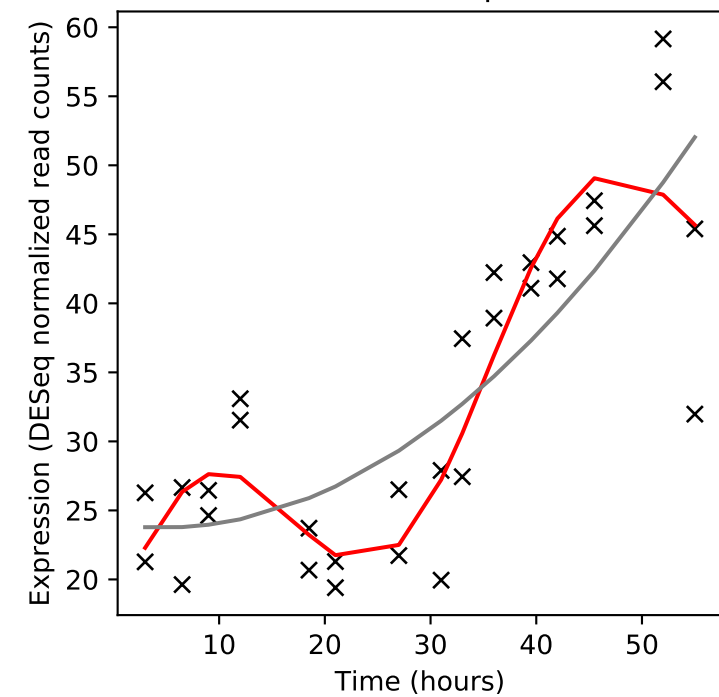
Rv0548c/menB



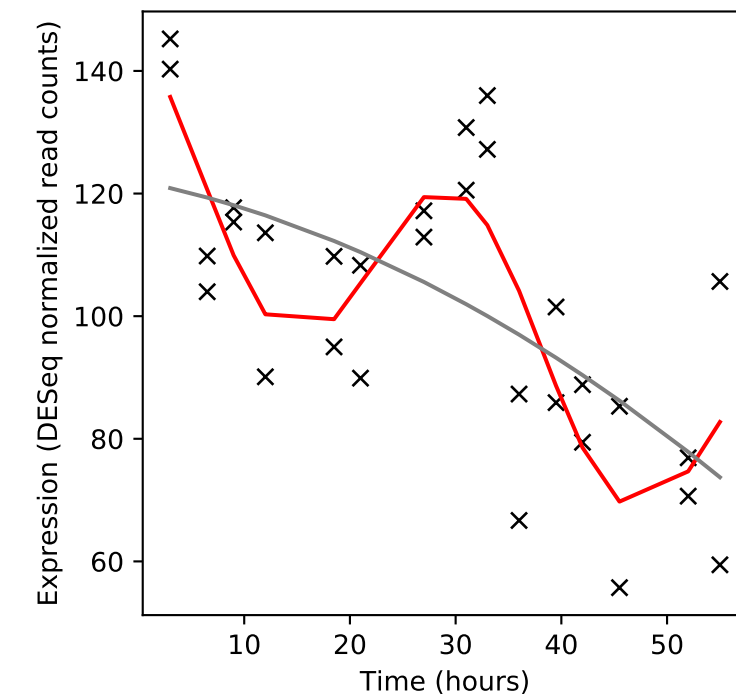
Rv0549c/vapC3



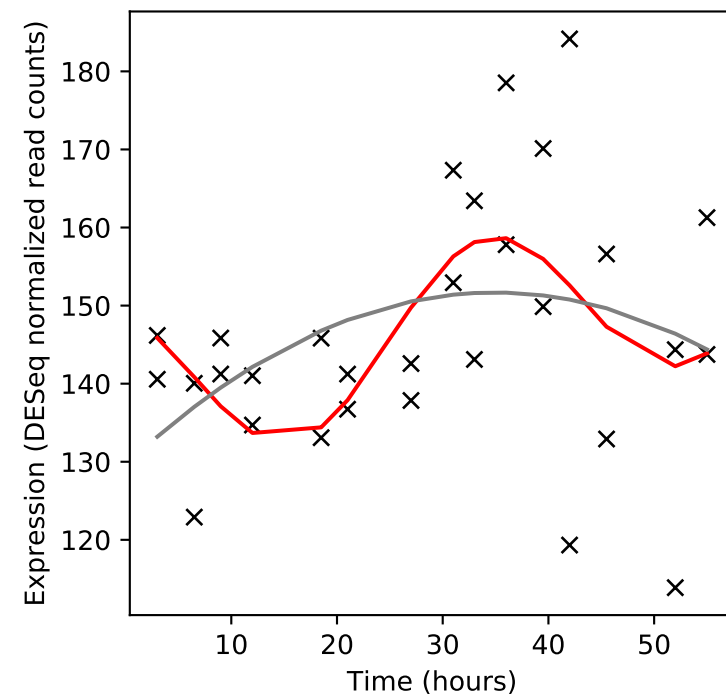
Rv0550c/vapB3



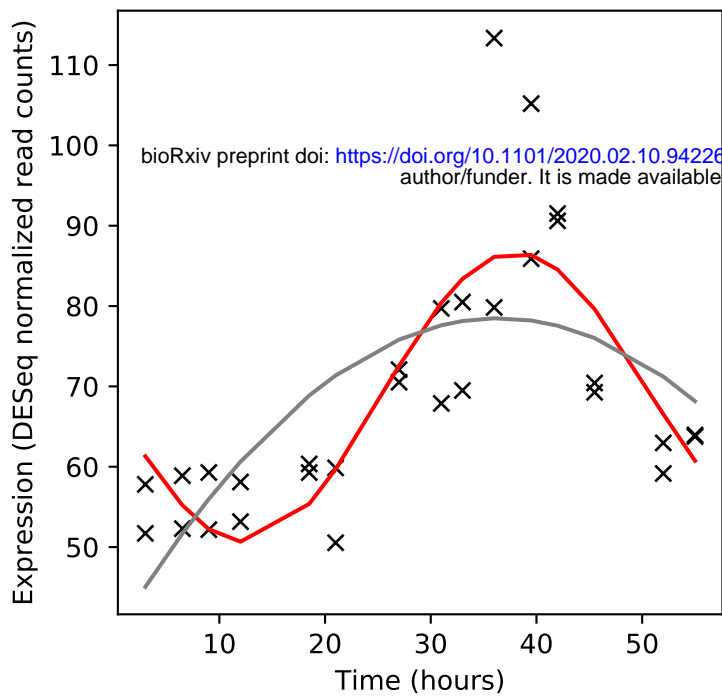
Rv0551c/fadD8



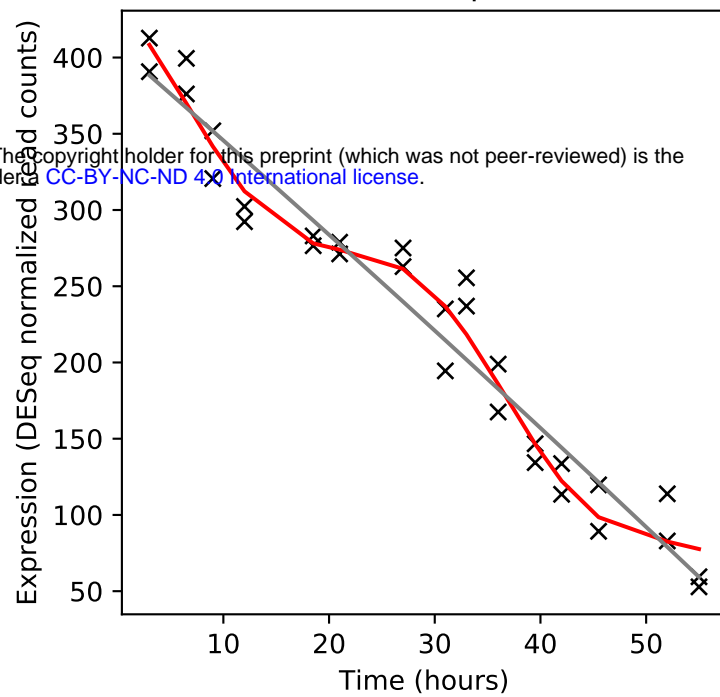
Rv0552c/-



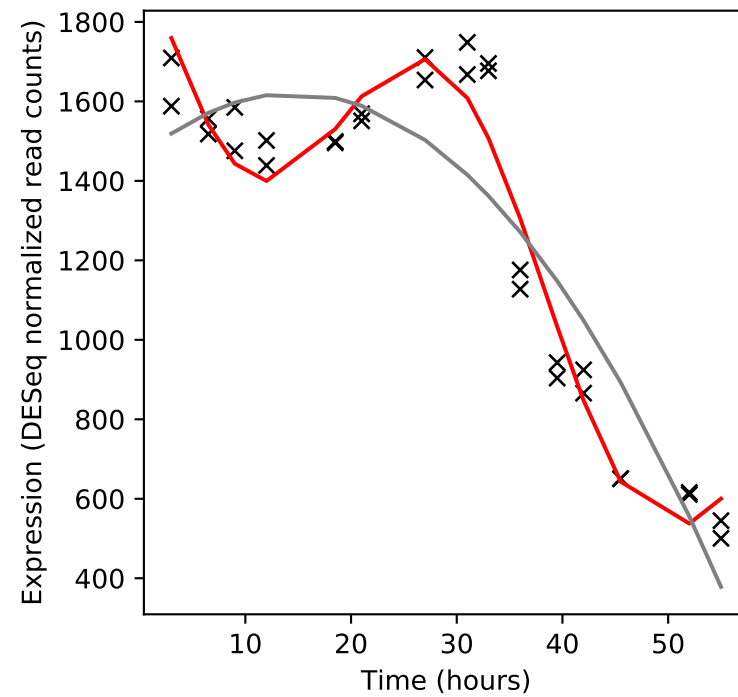
Rv0553/menC



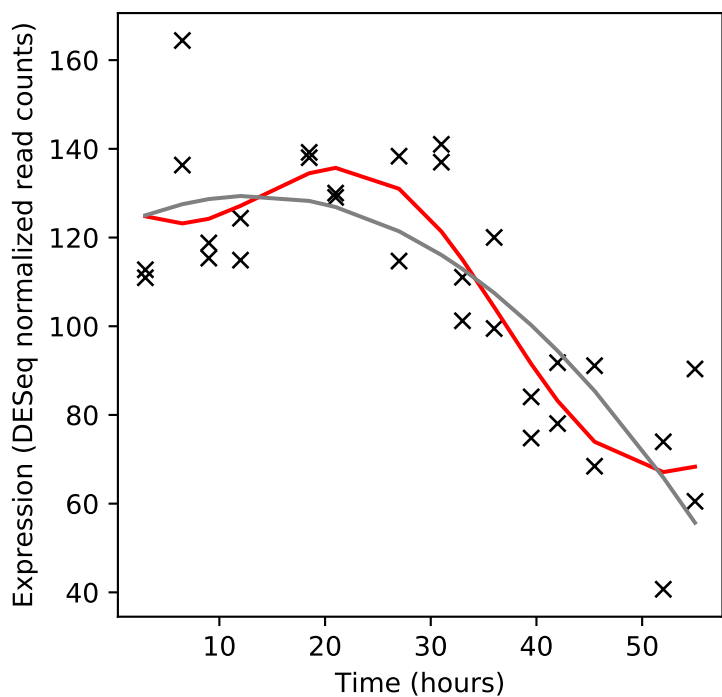
Rv0554/bpoC



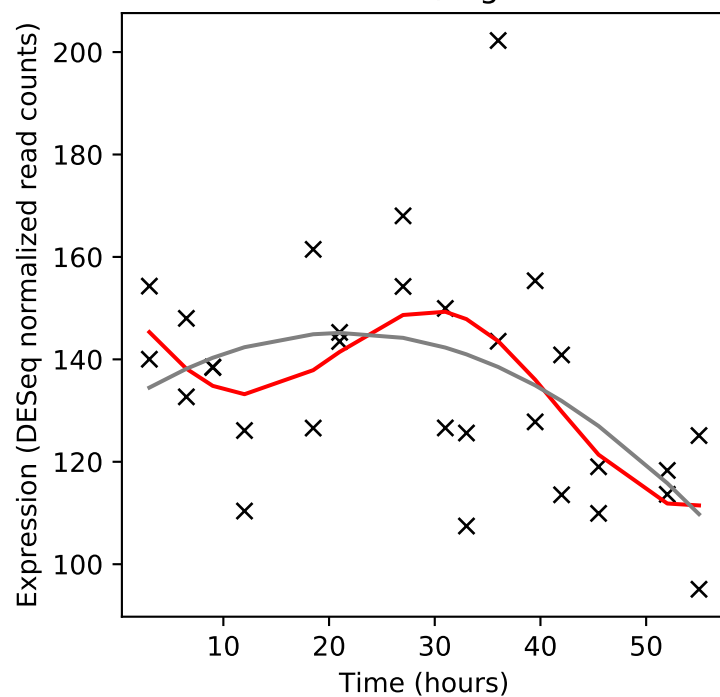
Rv0555/menD



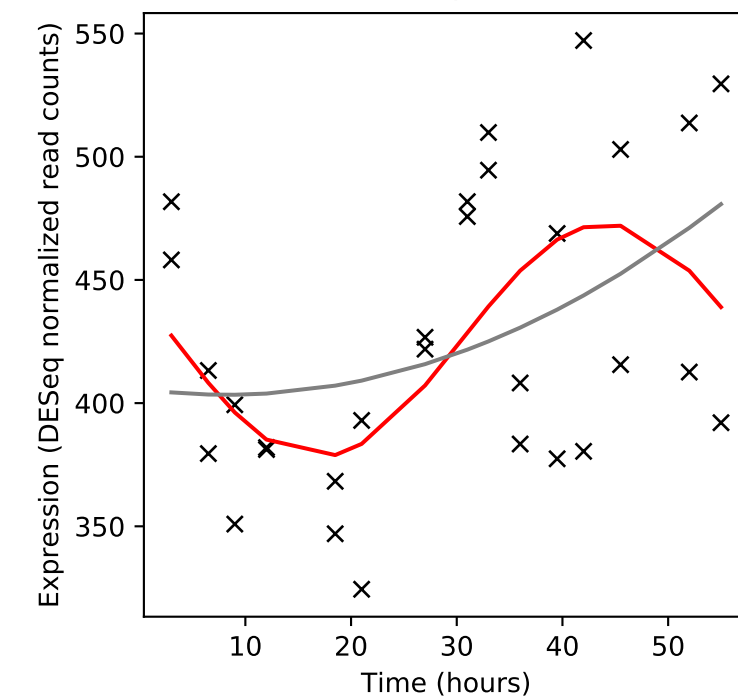
Rv0556/-



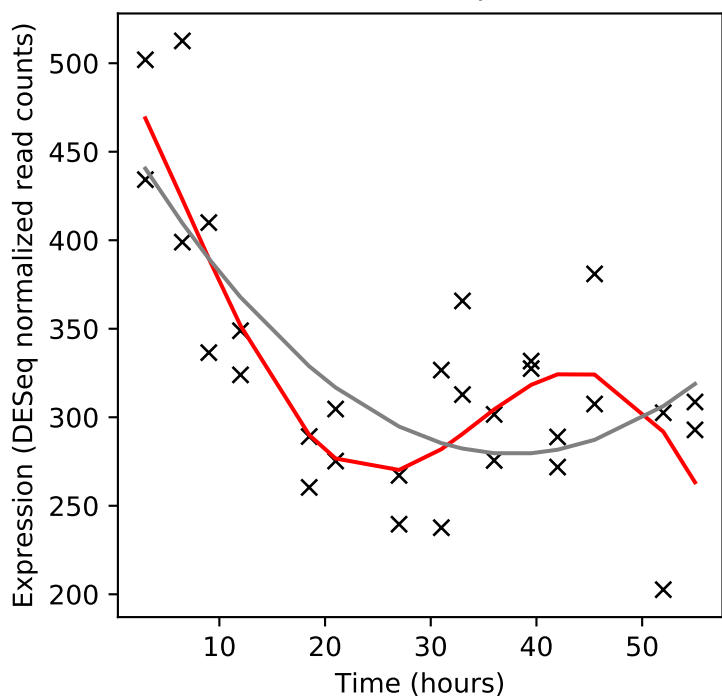
Rv0557/mgtA



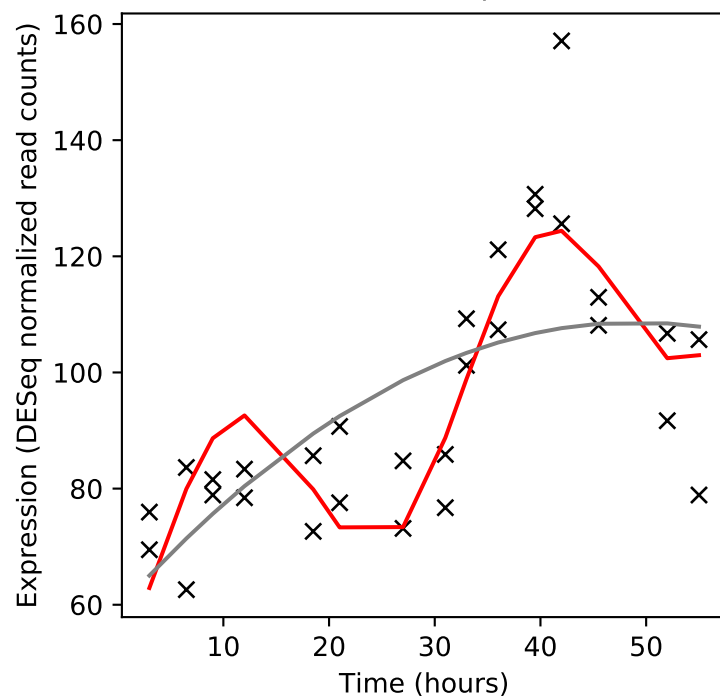
Rv0558/menH



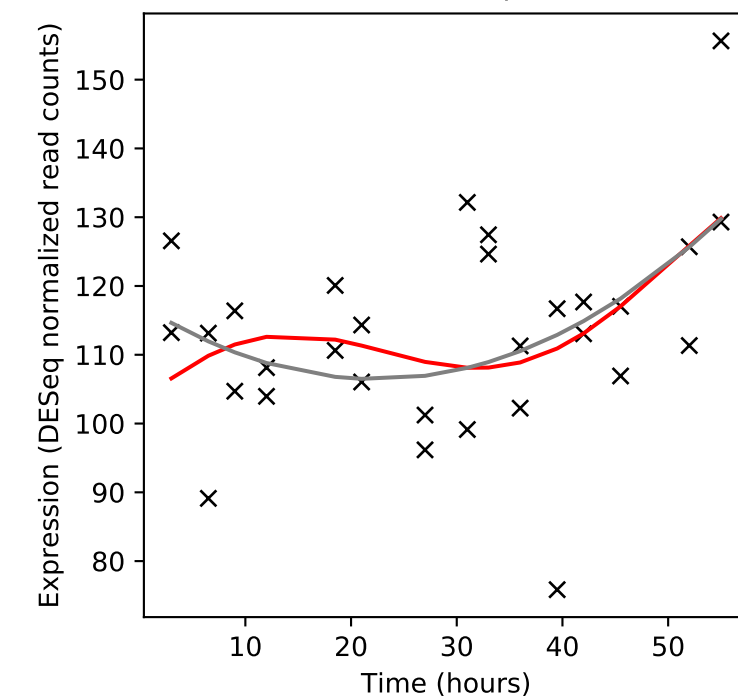
Rv0559c/-



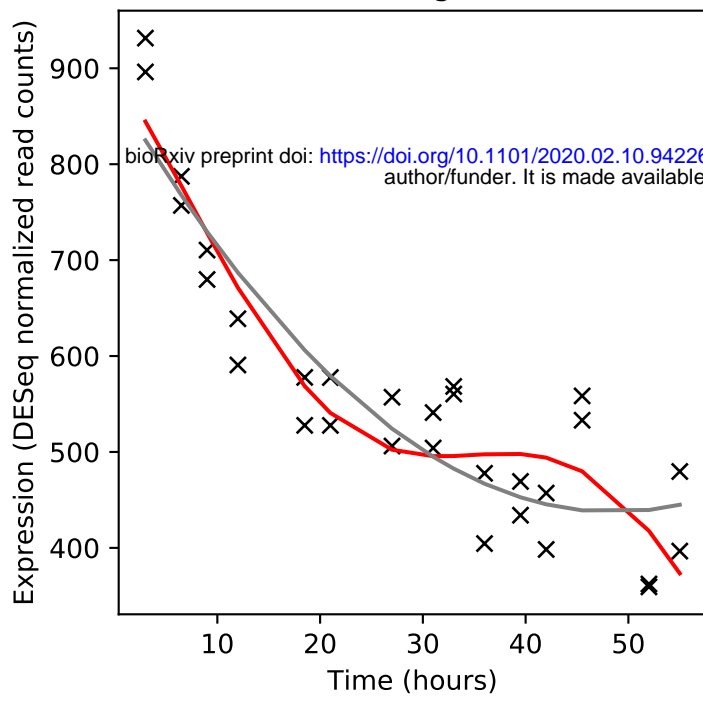
Rv0560c/-



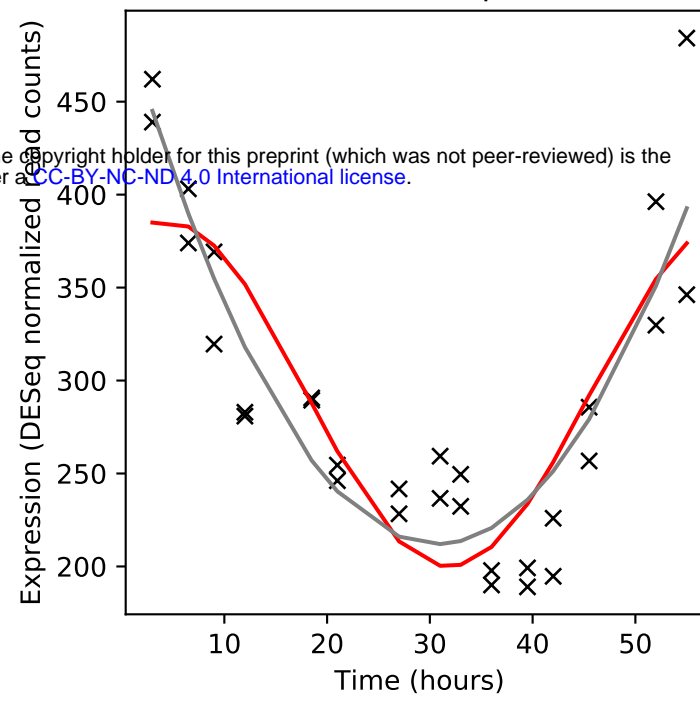
Rv0561c/-



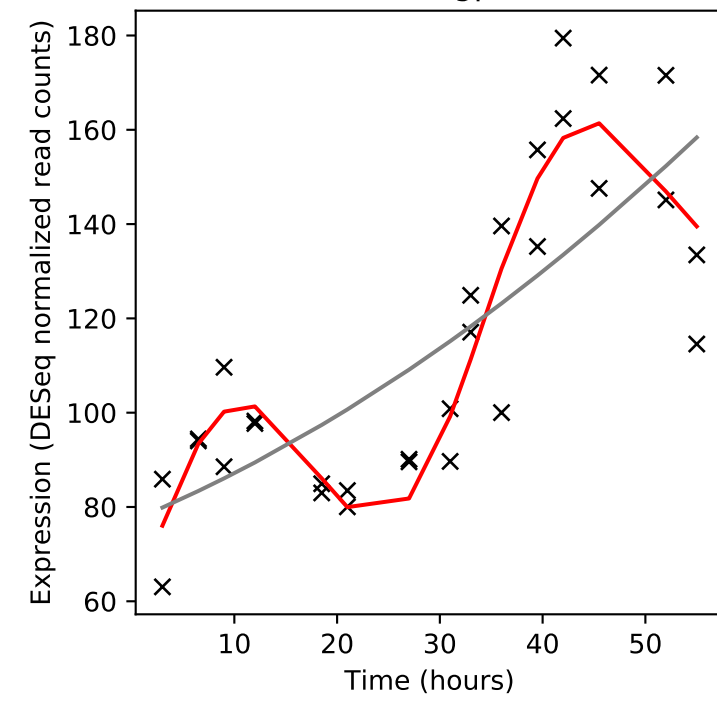
Rv0562/grcC1



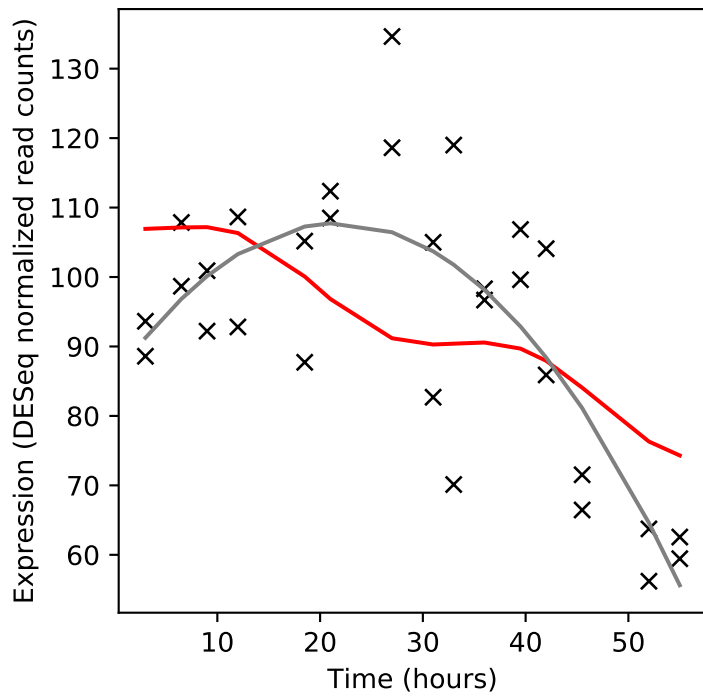
Rv0563/htpX



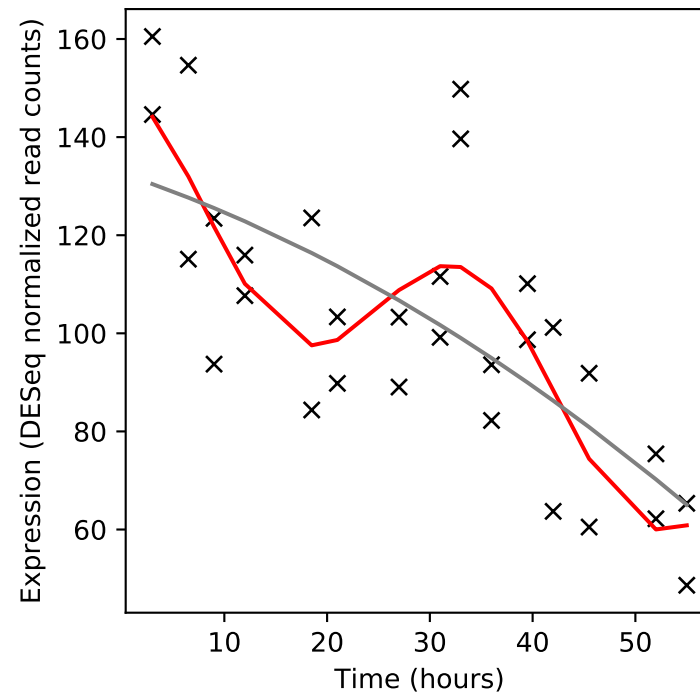
Rv0564c/gpdA1



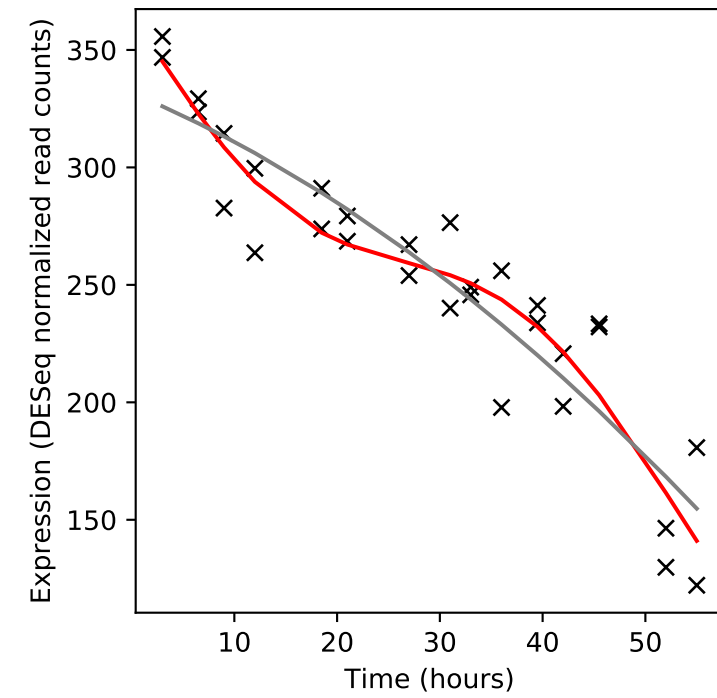
Rv0565c/-



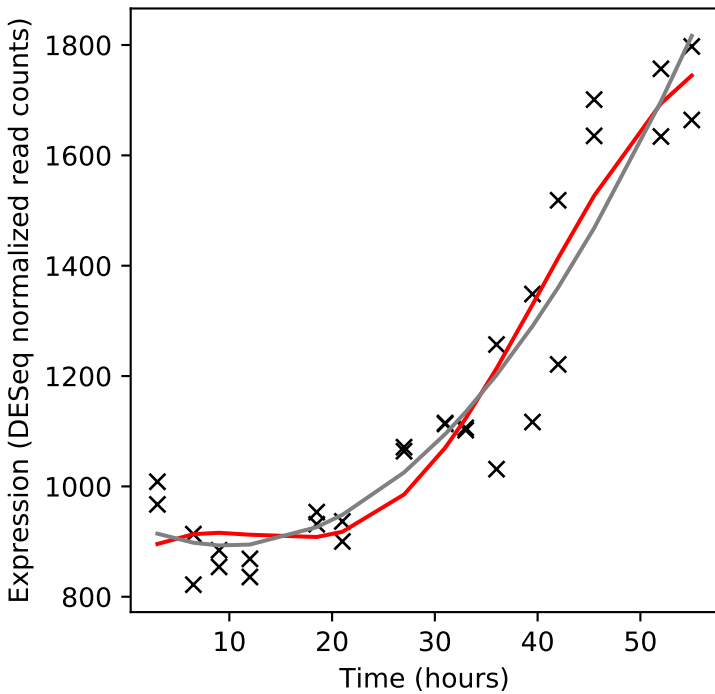
Rv0566c/-



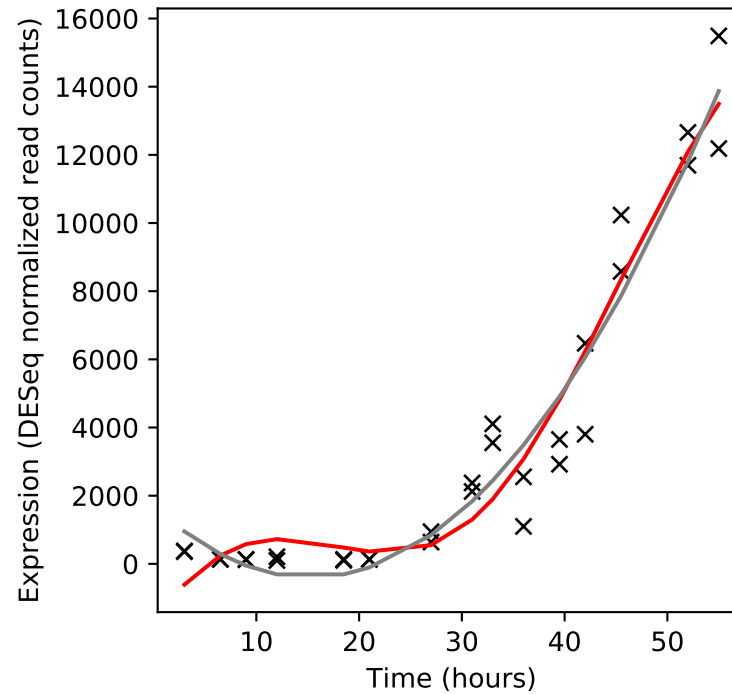
Rv0567/-



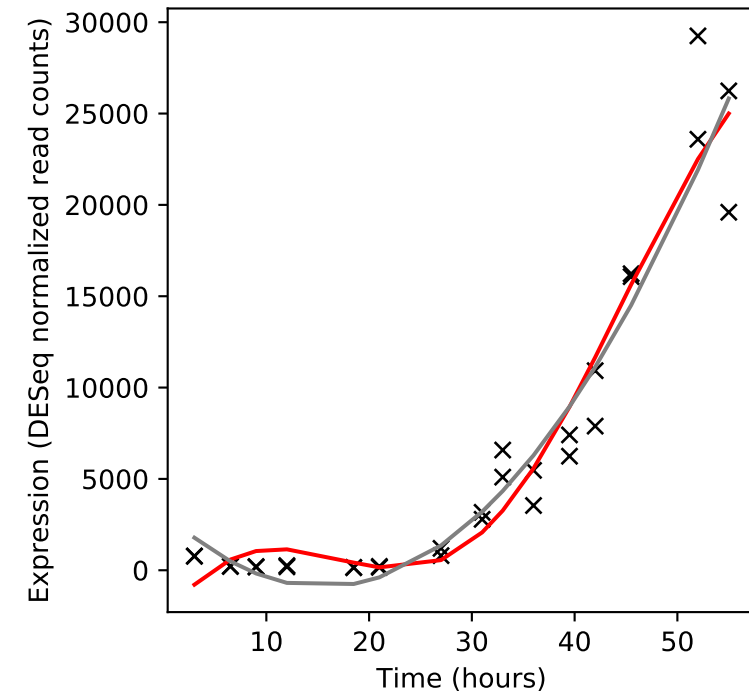
Rv0568/cyp135B1



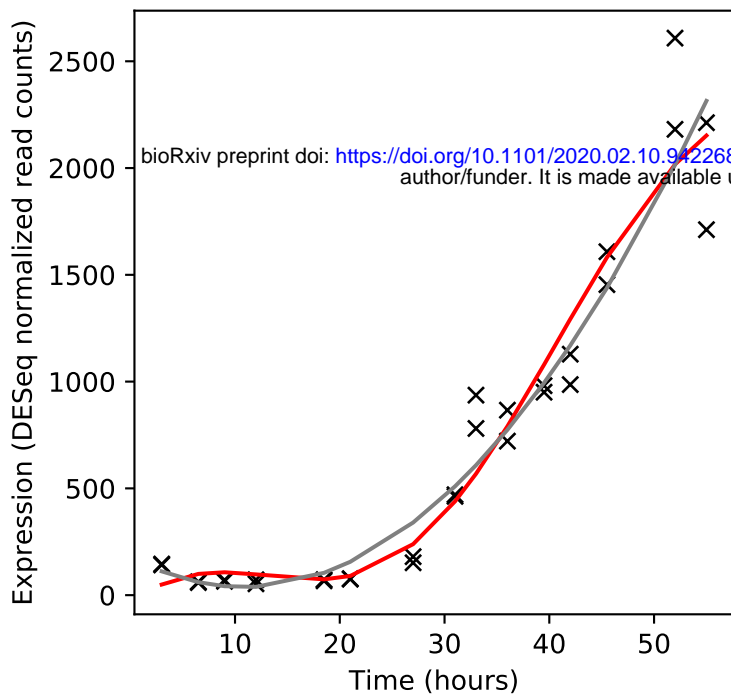
Rv0569/-



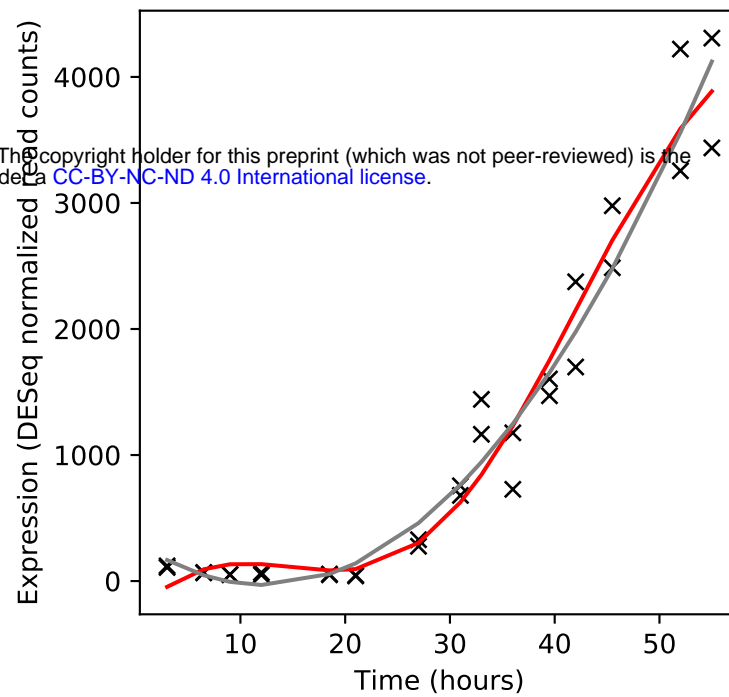
Rv0570/nrdZ



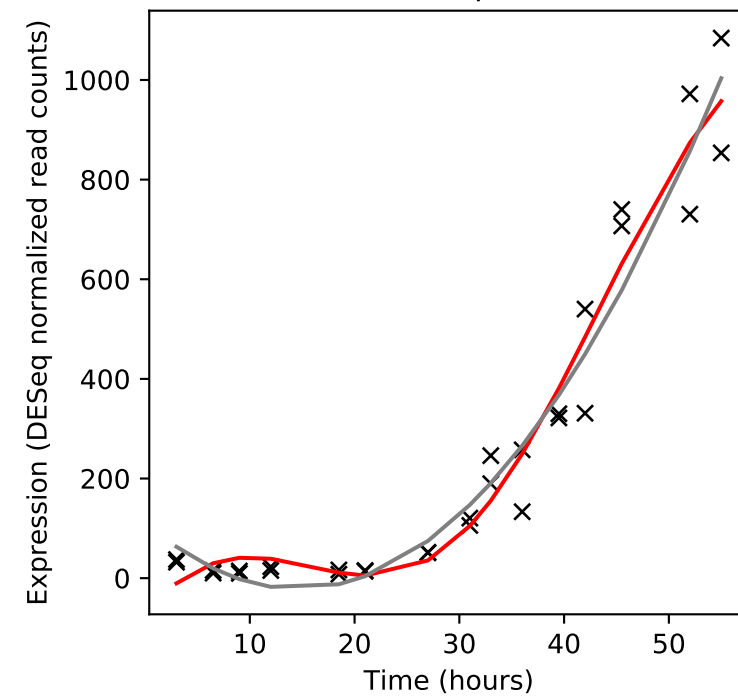
Rv0571c/-



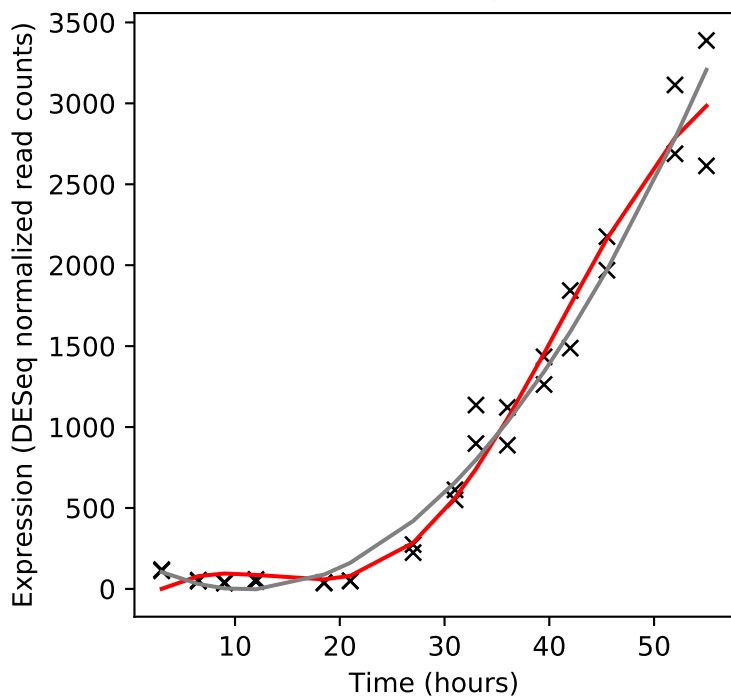
Rv0572c/-



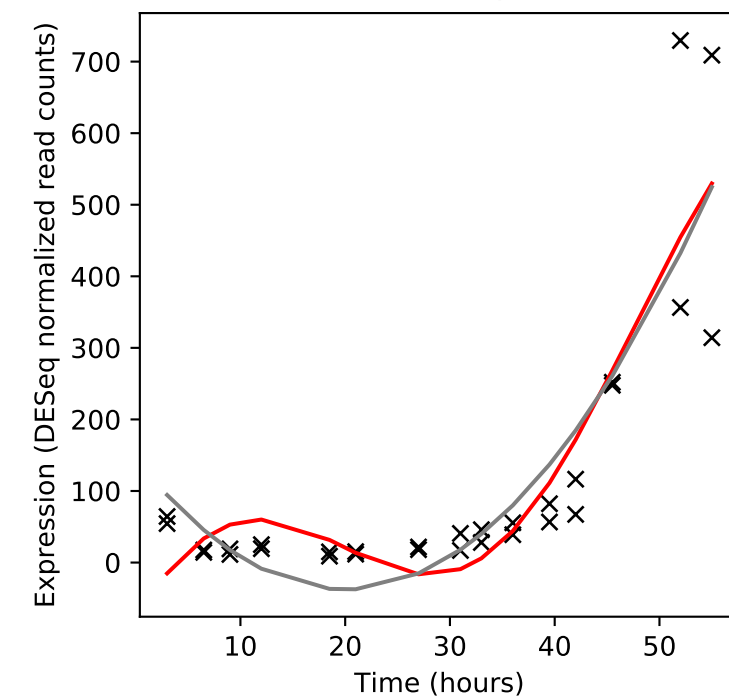
Rv0573c/pncB2



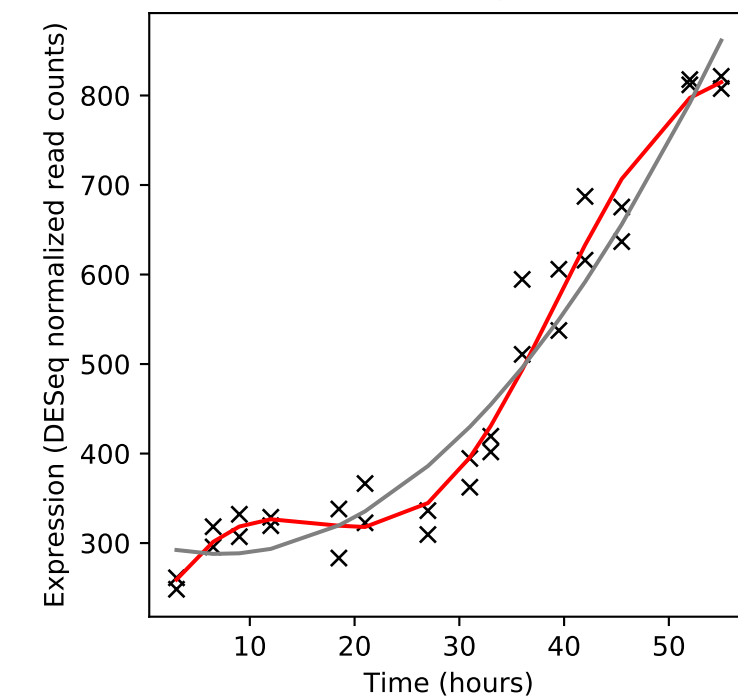
Rv0574c/-



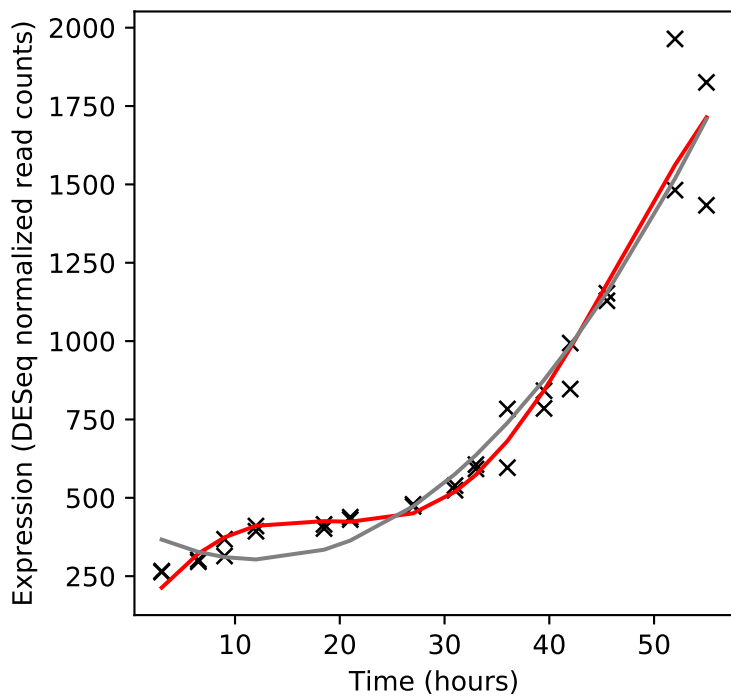
Rv0575c/-



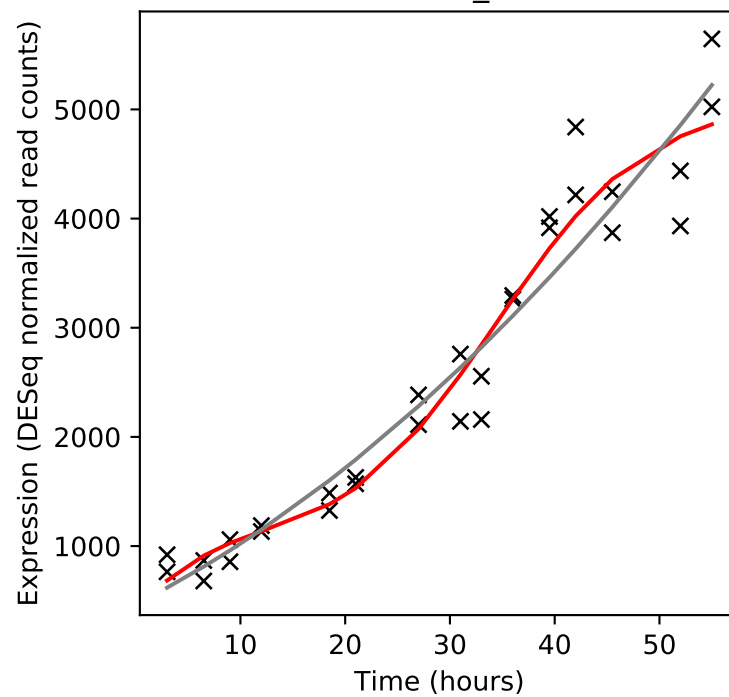
Rv0576/-



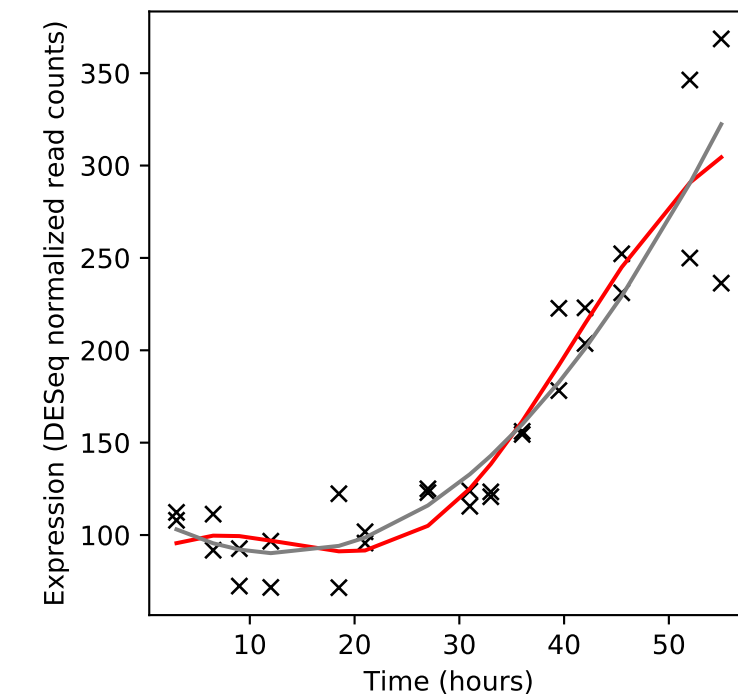
Rv0577/TB27.3



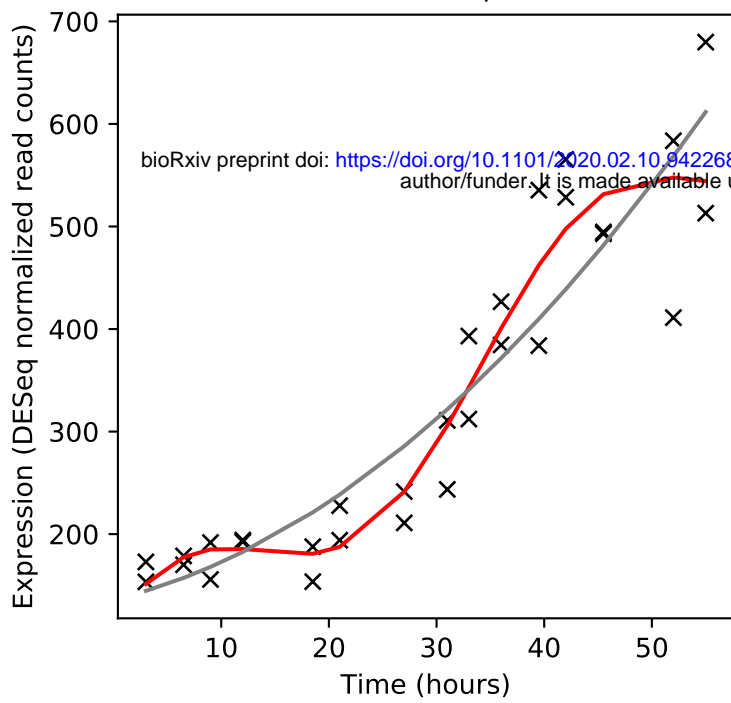
Rv0578c/PE_PGRS7



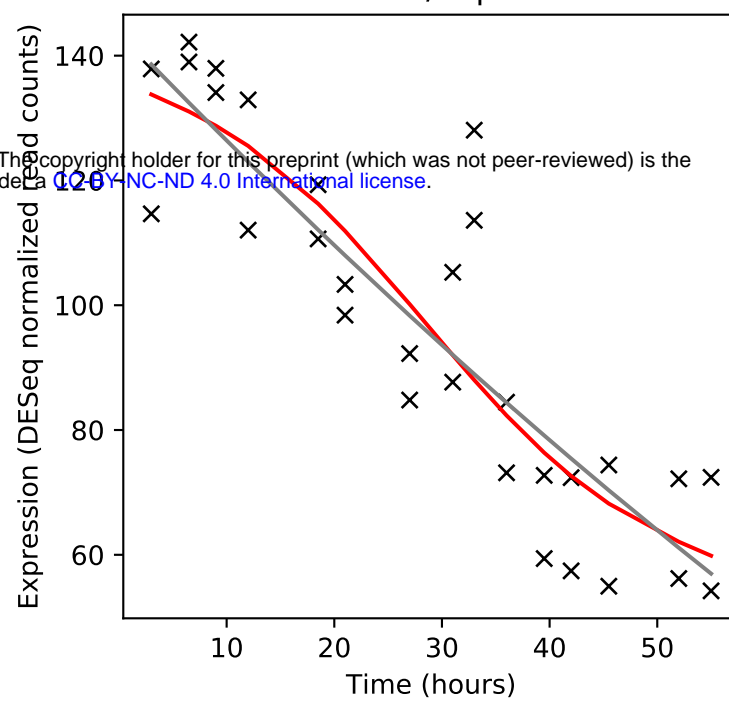
Rv0579/-



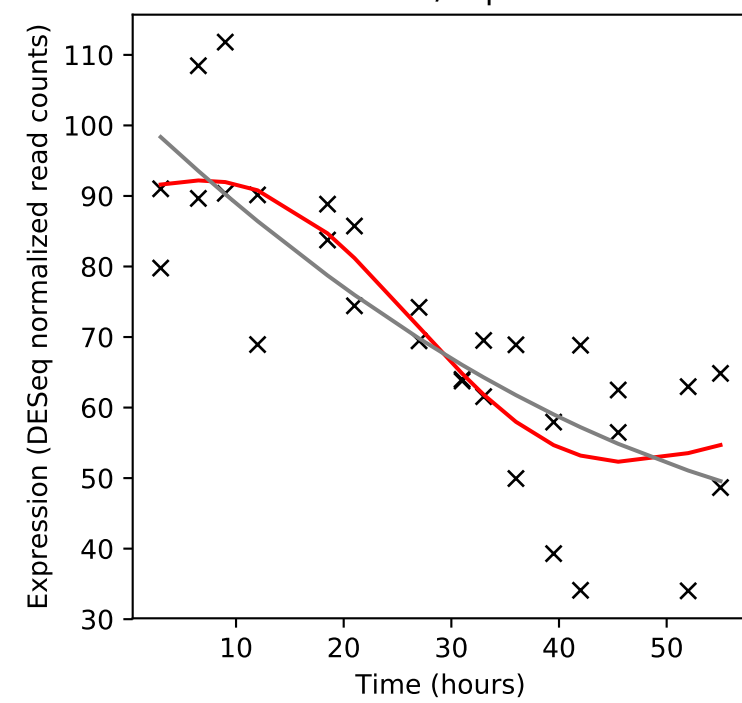
Rv0580c/-



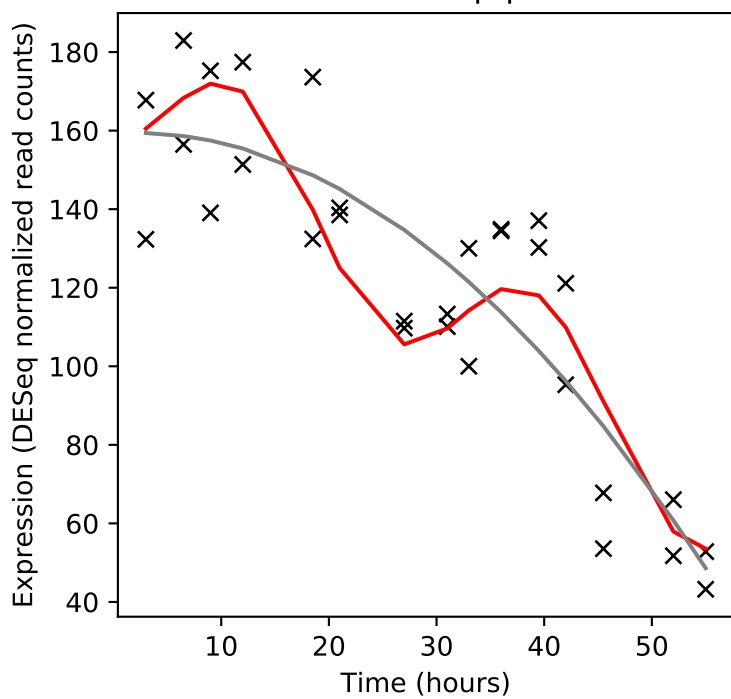
Rv0581/vapB26



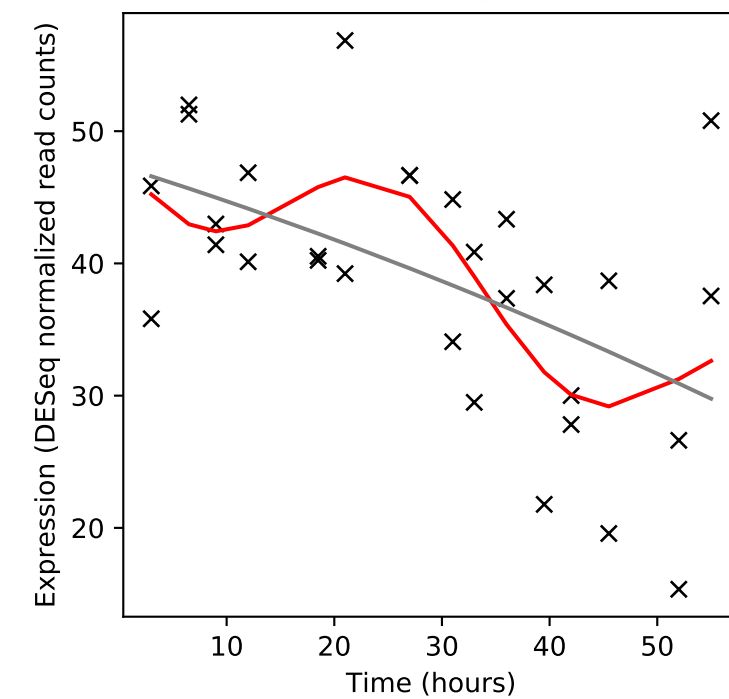
Rv0582/vapC26



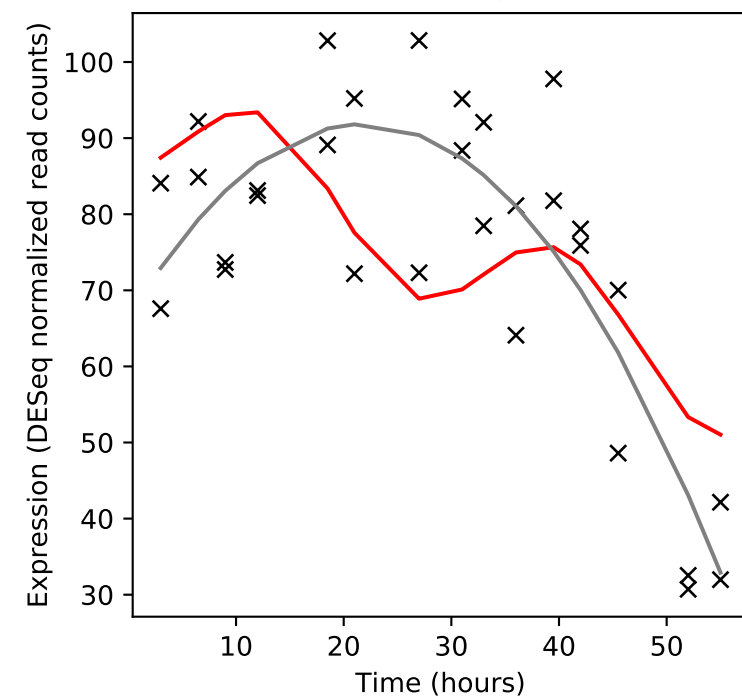
Rv0583c/lpqN



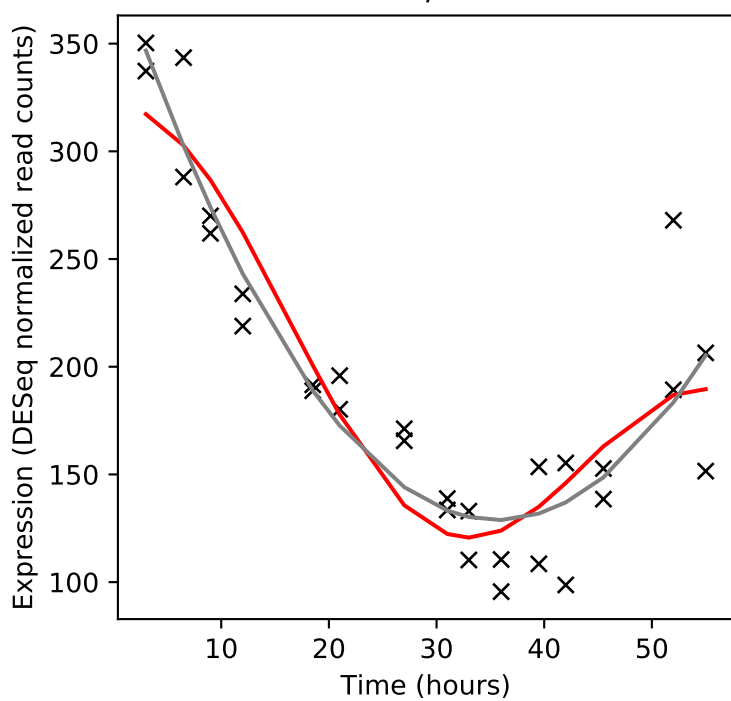
Rv0584/-



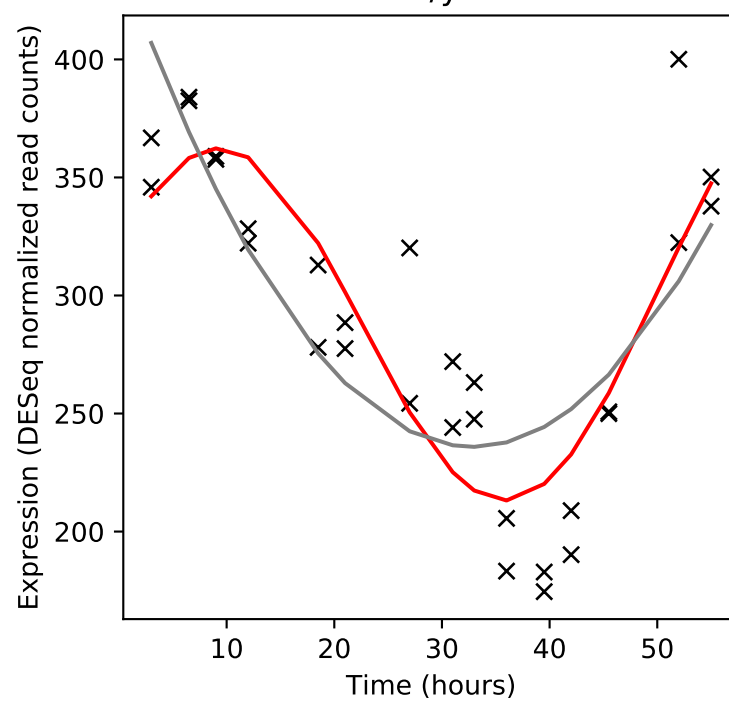
Rv0585c/-



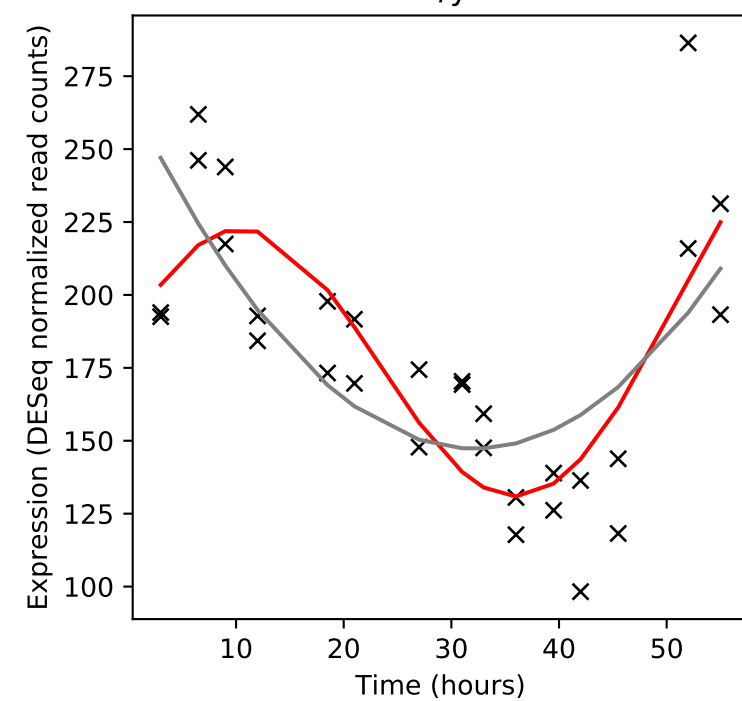
Rv0586/mce2R



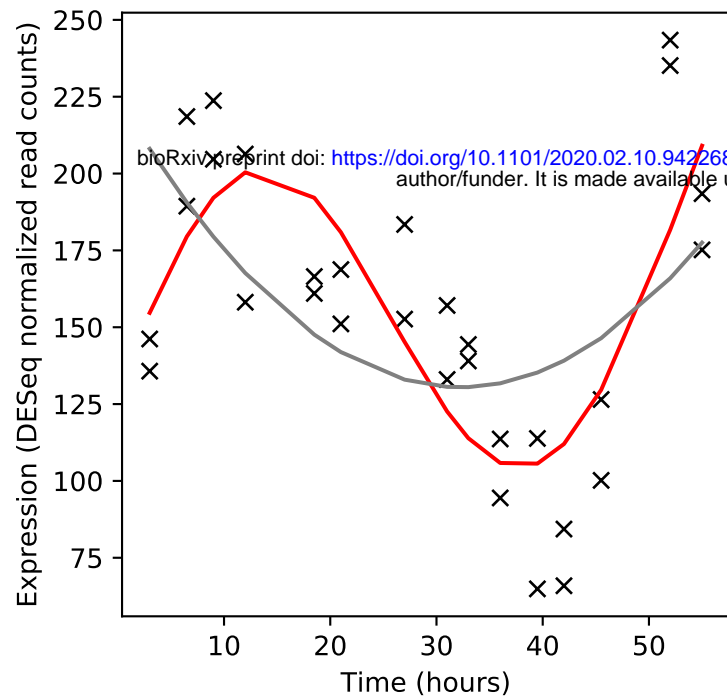
Rv0587/yrbE2A



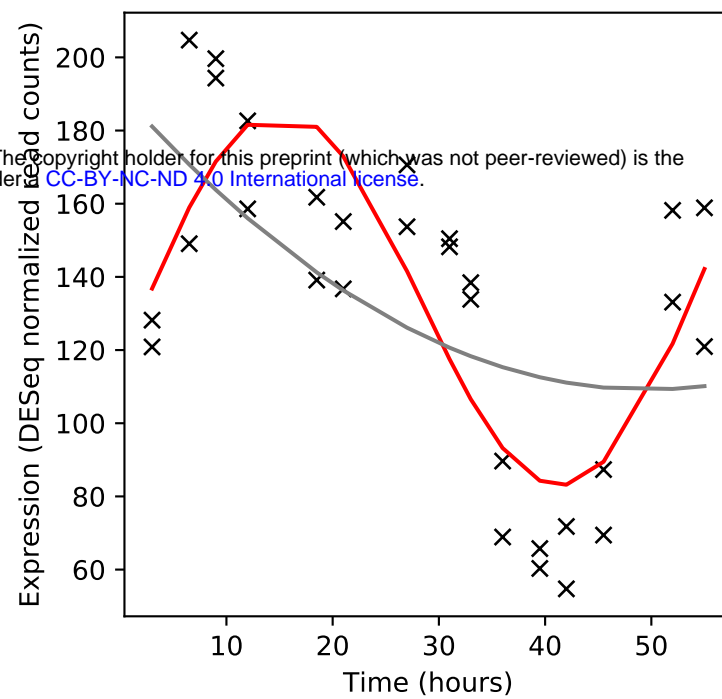
Rv0588/yrbE2B



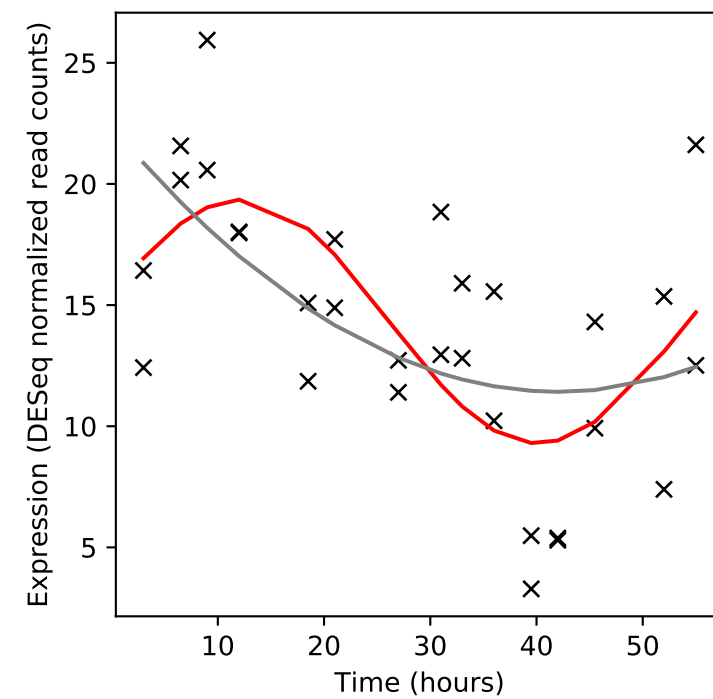
Rv0589/mce2A



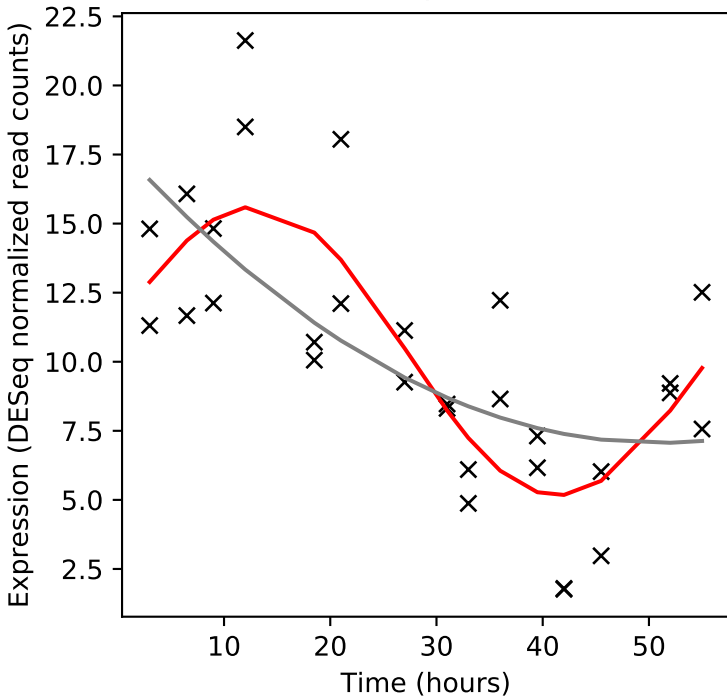
Rv0590/mce2B



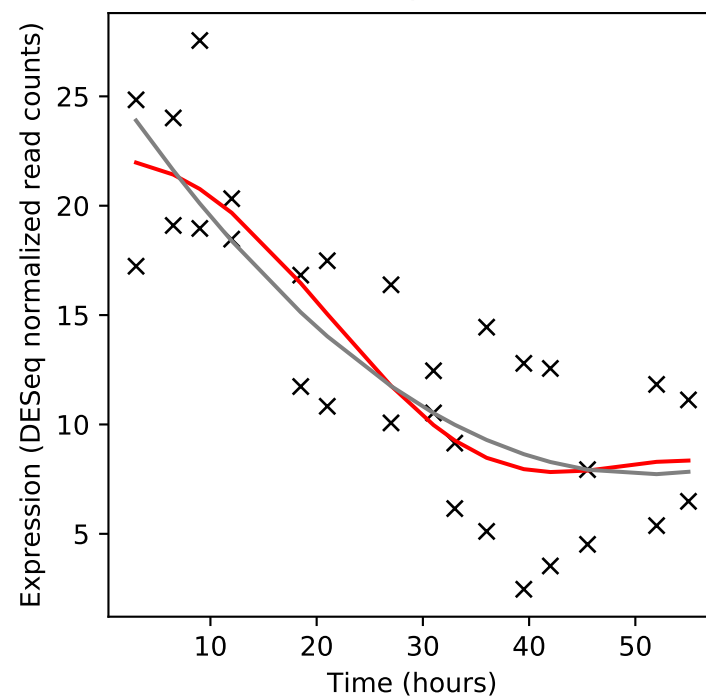
Rv0590A/-



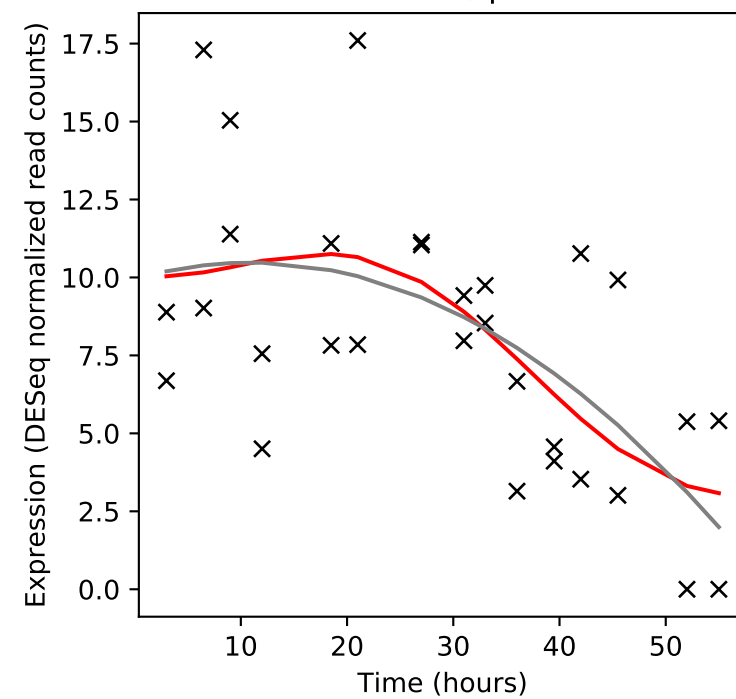
Rv0591/mce2C



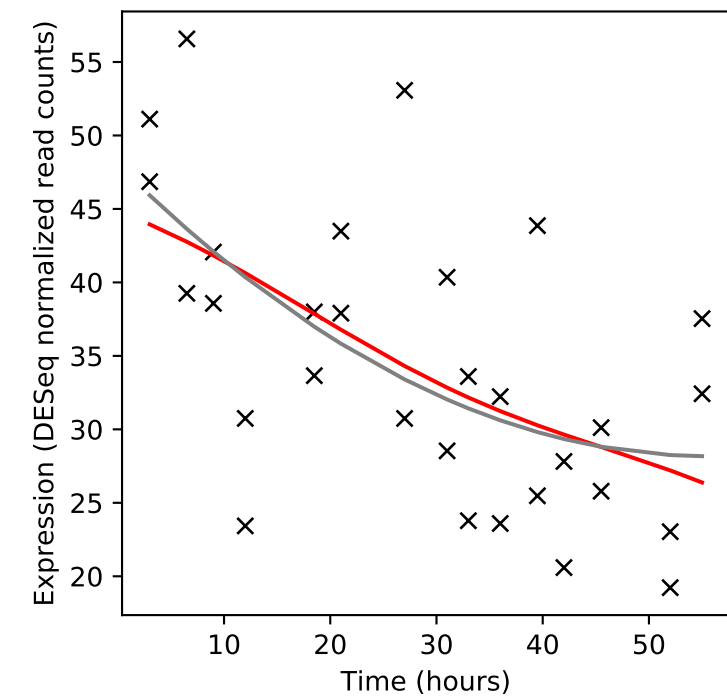
Rv0592/mce2D



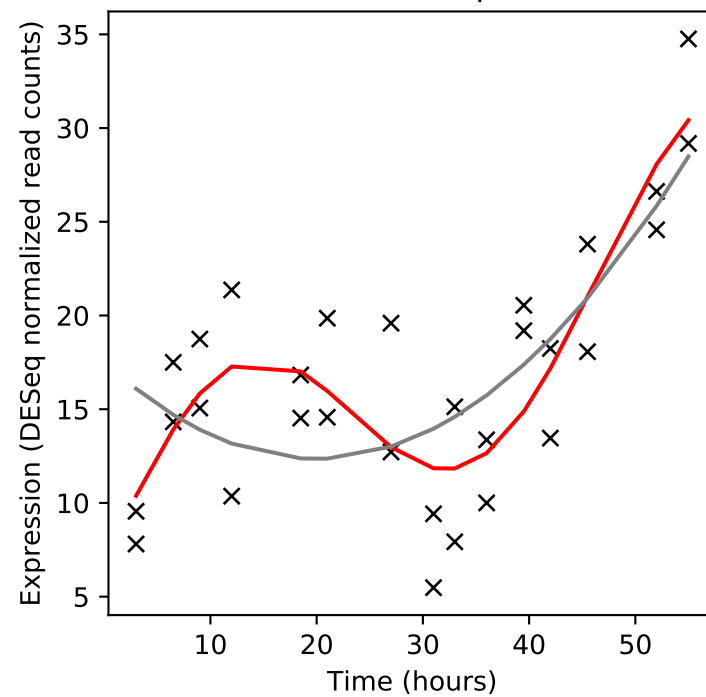
Rv0593/lprL



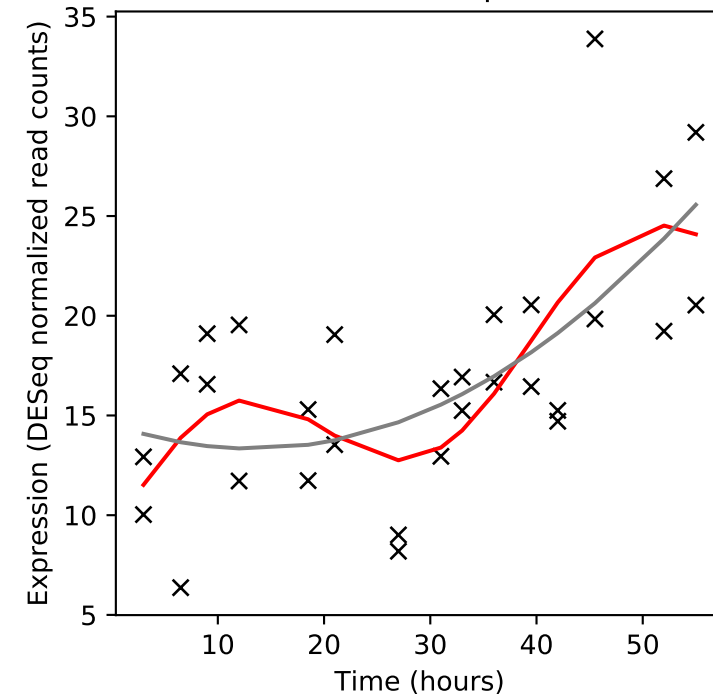
Rv0594/mce2F



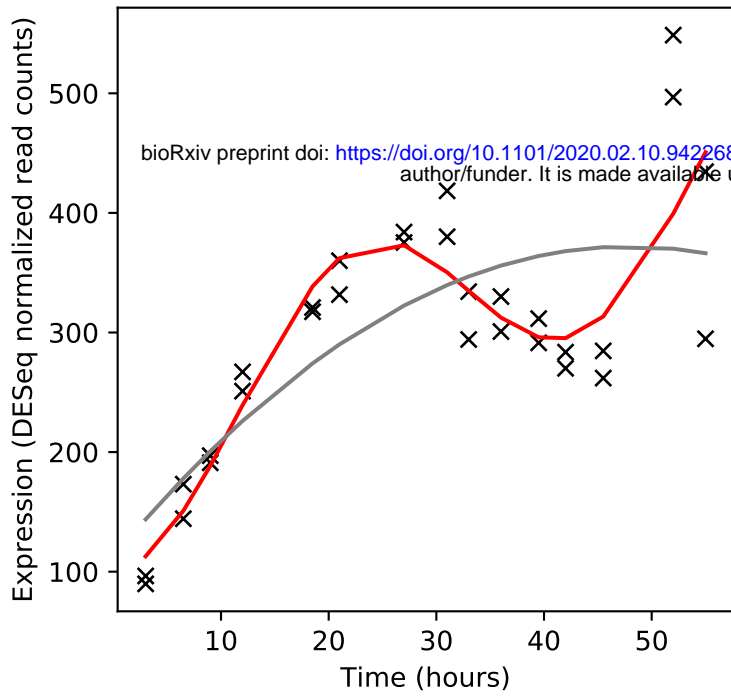
Rv0595c/vapC4



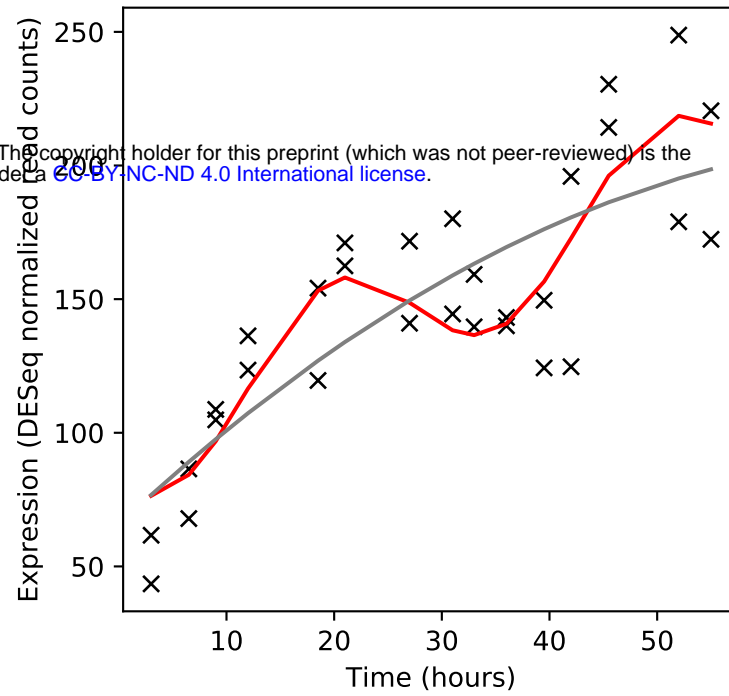
Rv0596c/vapB4



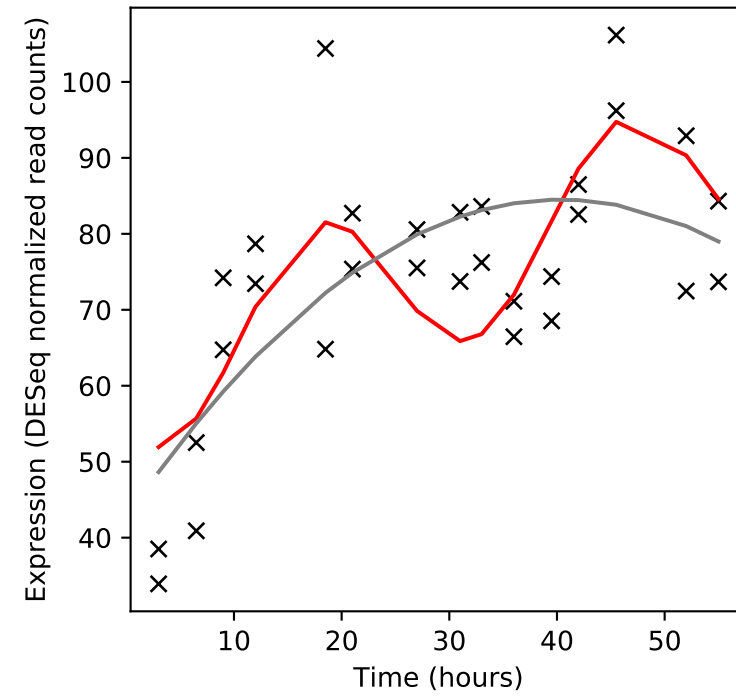
Rv0597c/-



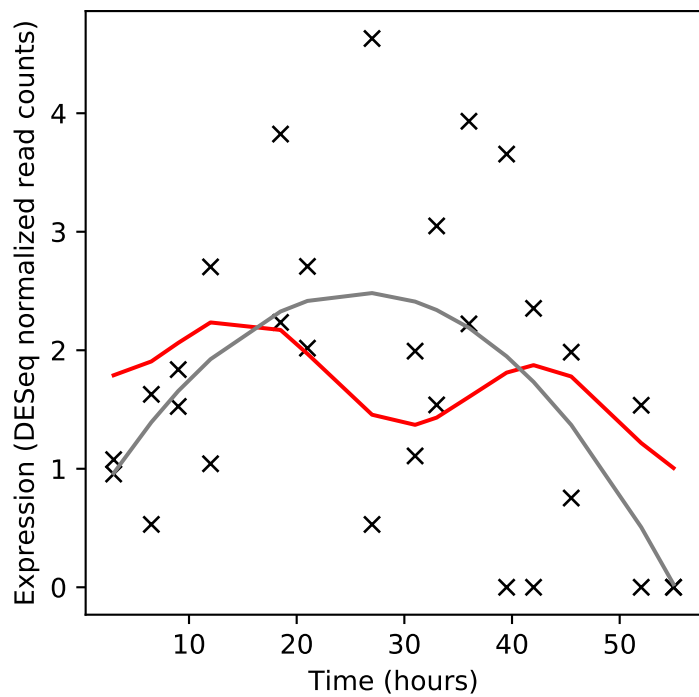
Rv0598c/vapC27



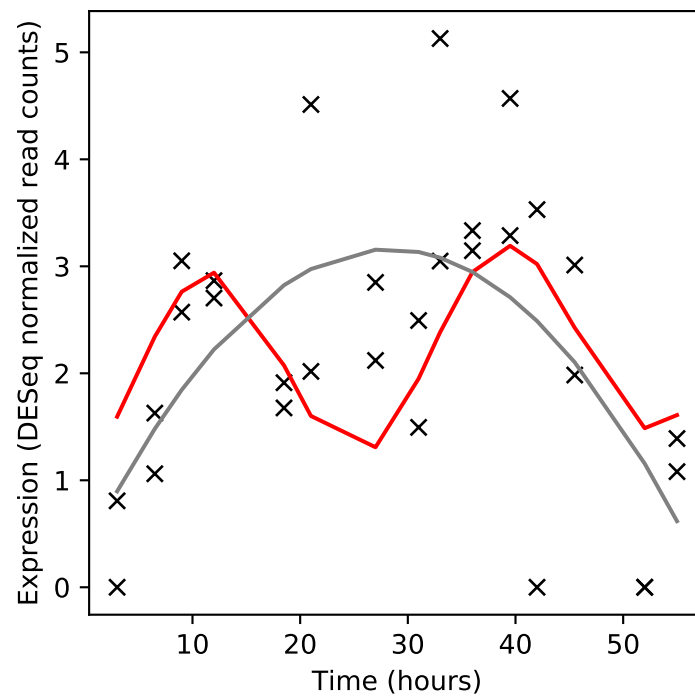
Rv0599c/vapB27



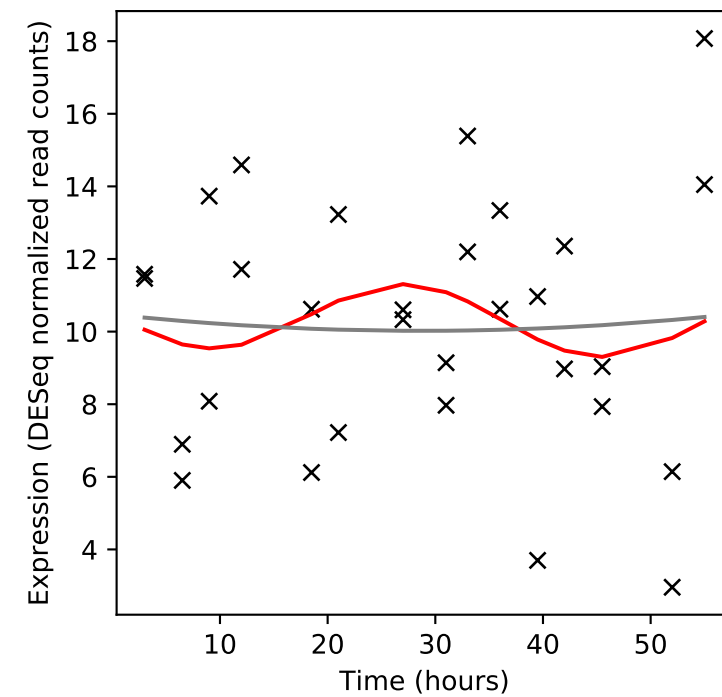
Rv0600c/-



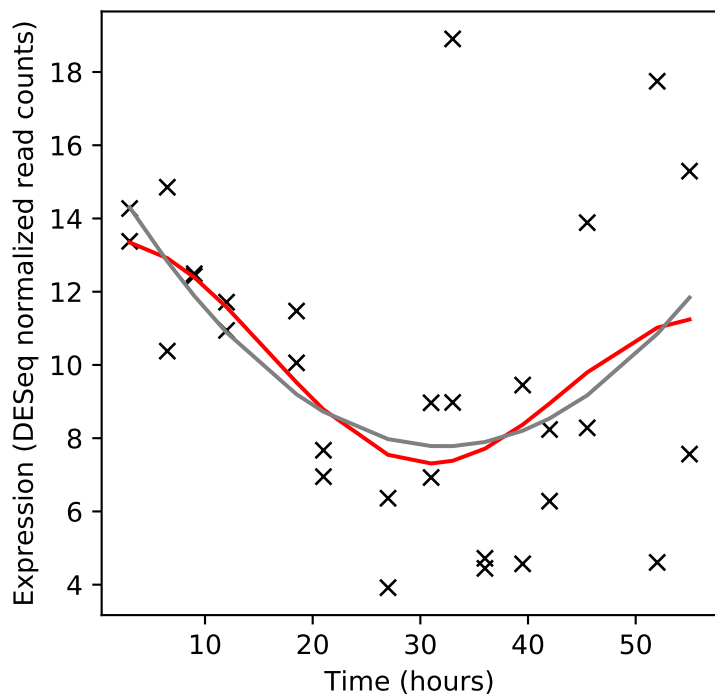
Rv0601c/-



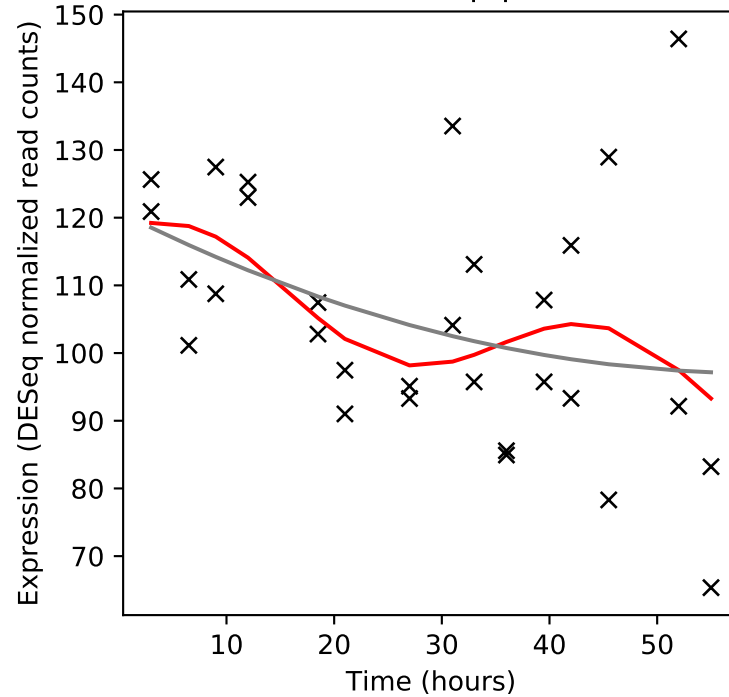
Rv0602c/tcrA



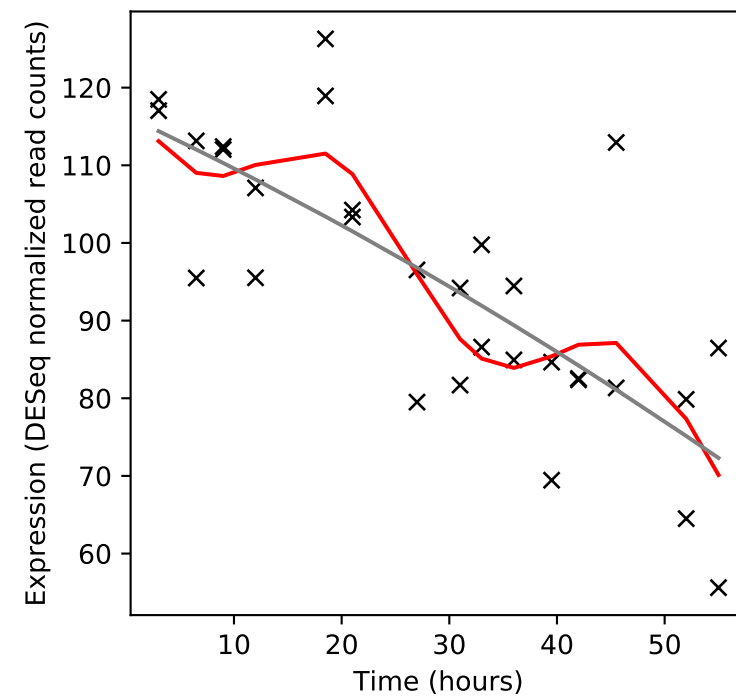
Rv0603c/-



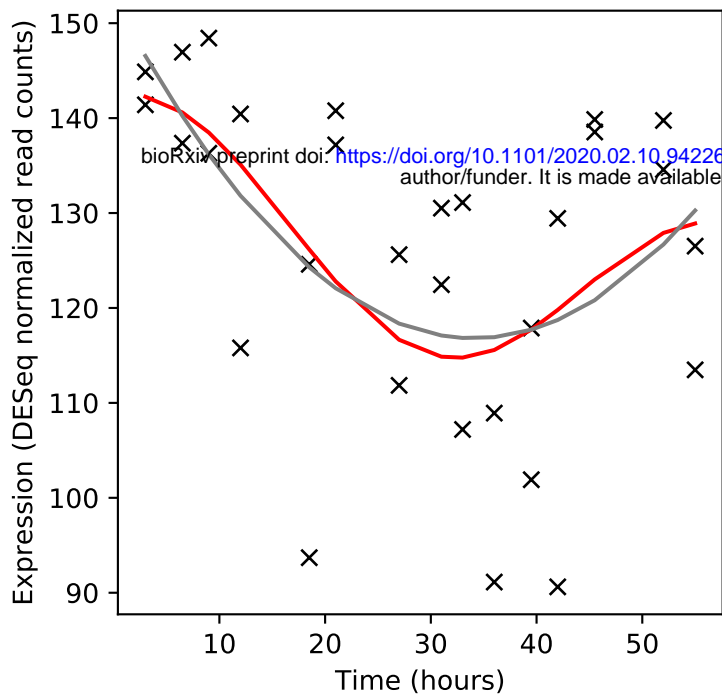
Rv0604c/lpqO



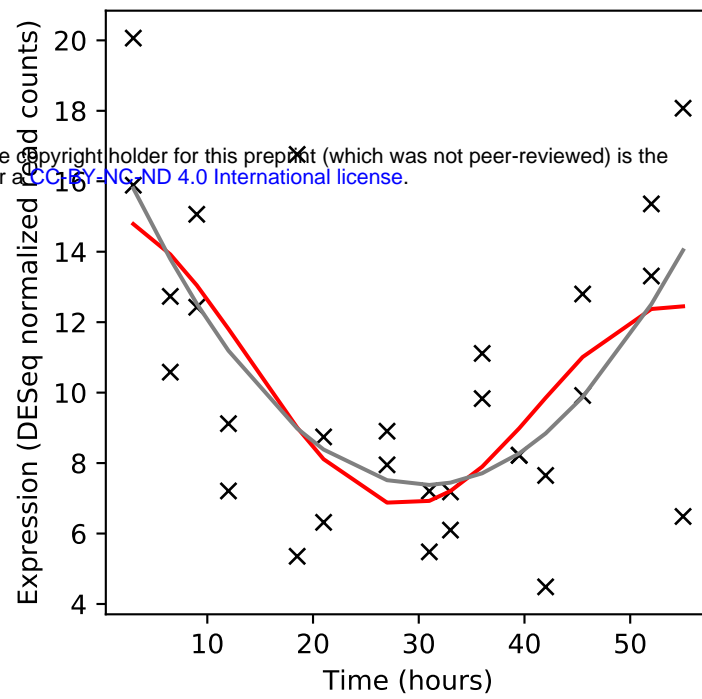
Rv0605c/-



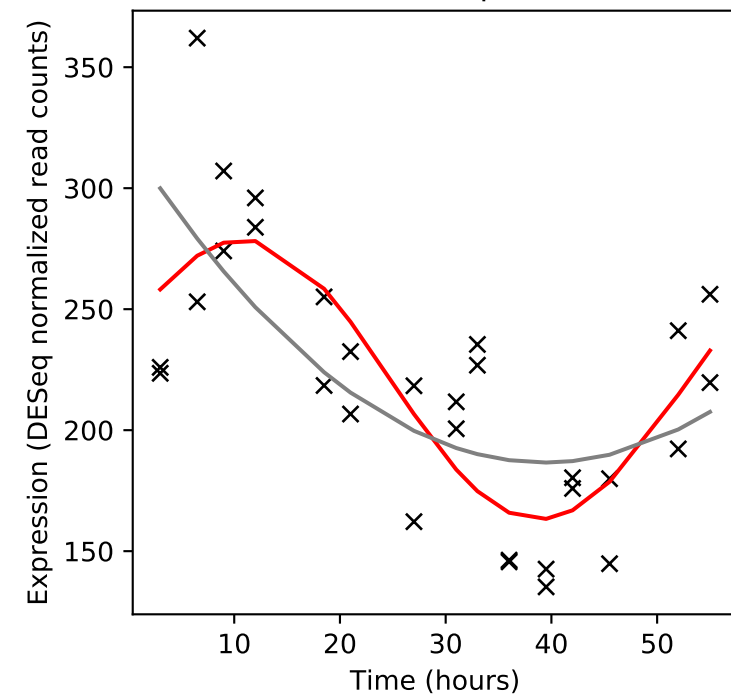
Rv0606/-



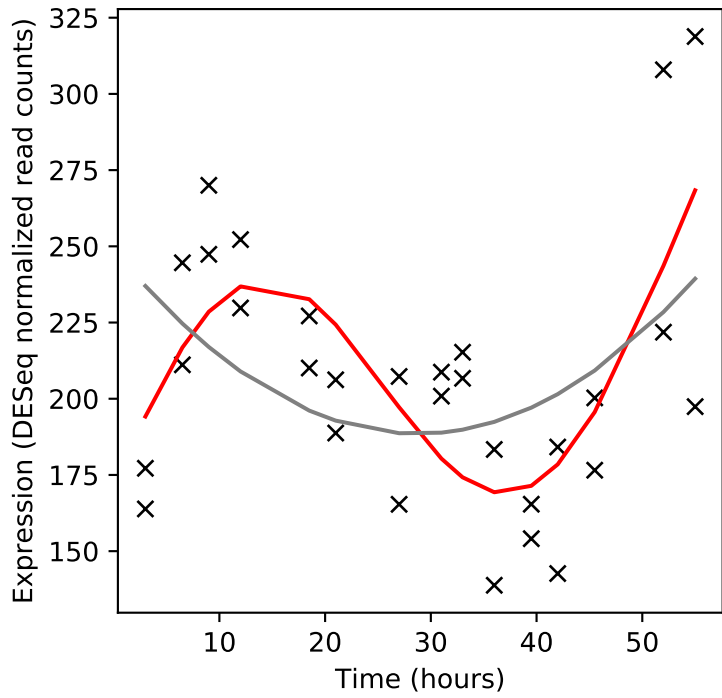
Rv0607/-



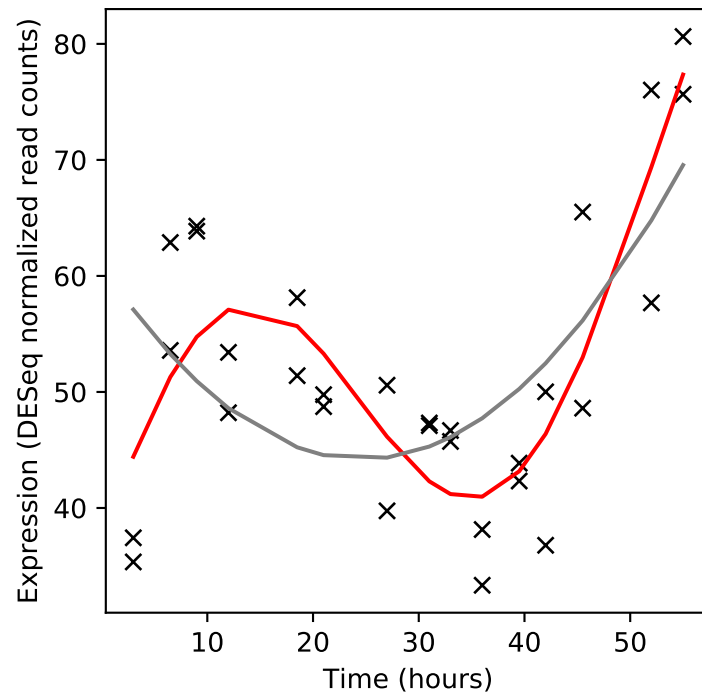
Rv0608/vapB28



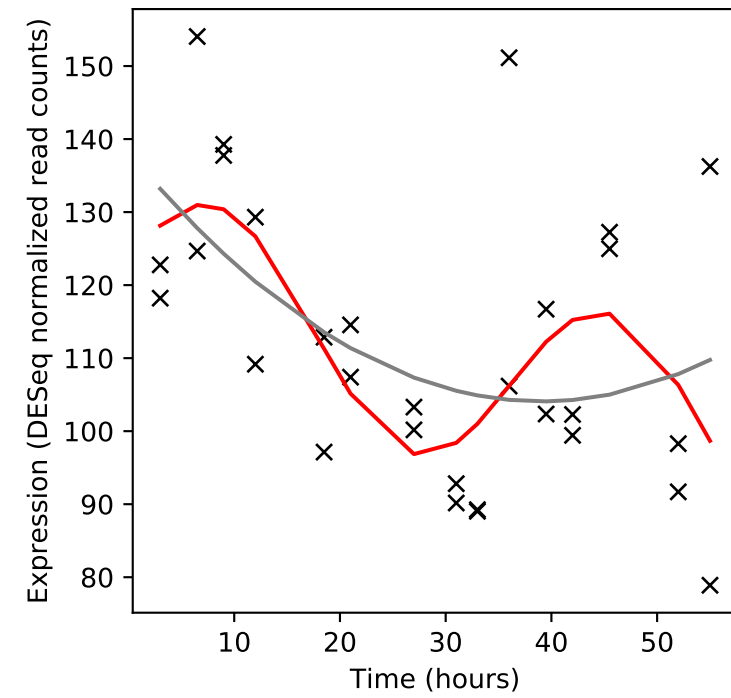
Rv0609/vapC28



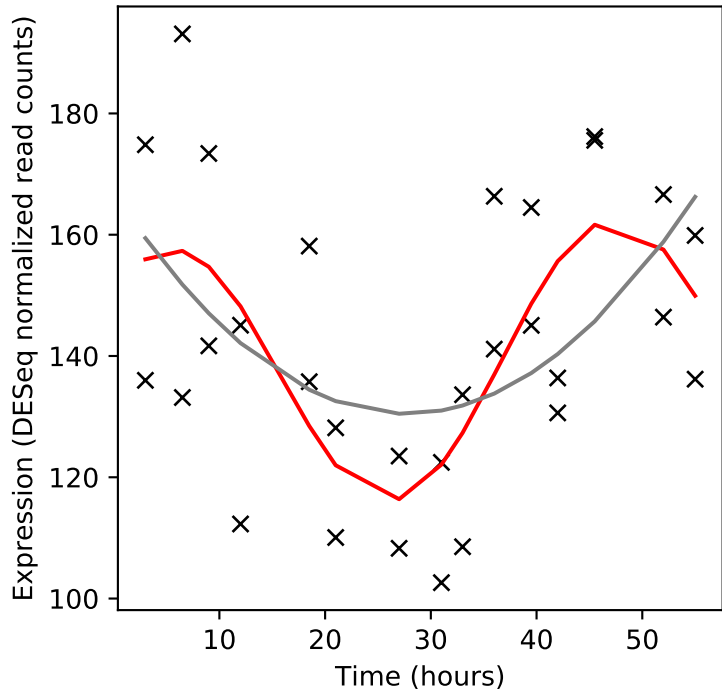
Rv0609A/-



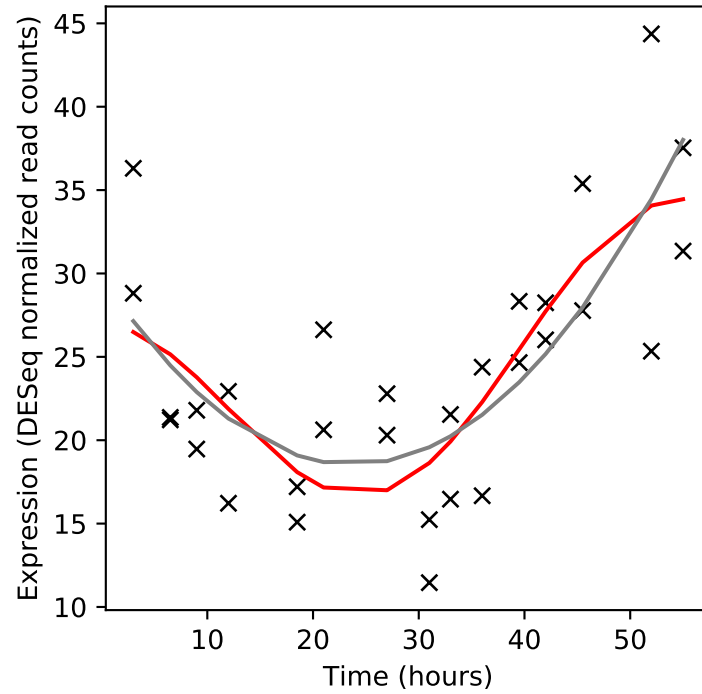
Rv0610c/-



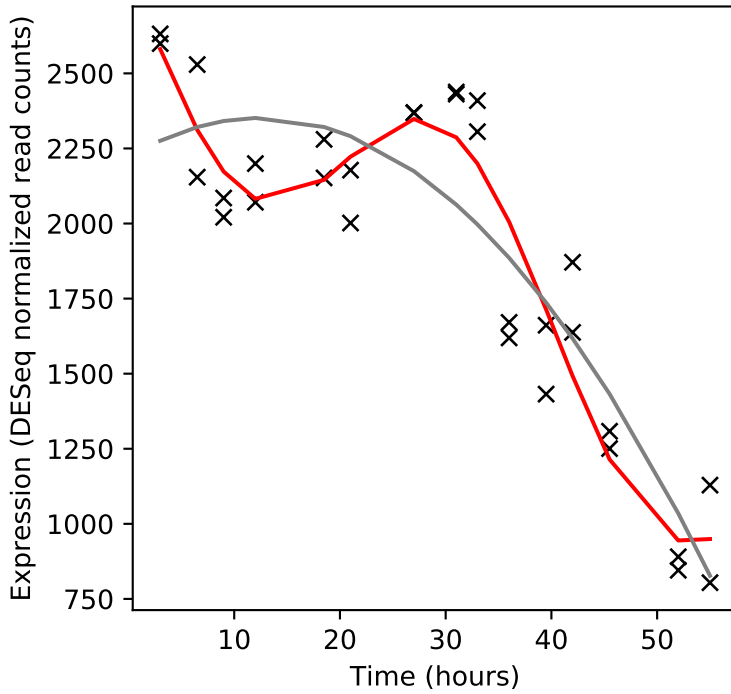
Rv0611c/-



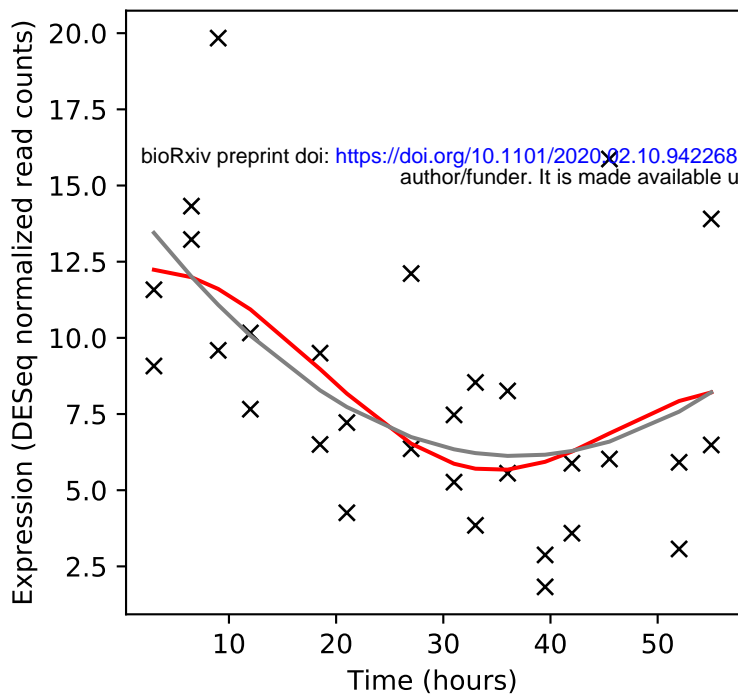
Rv0612/-



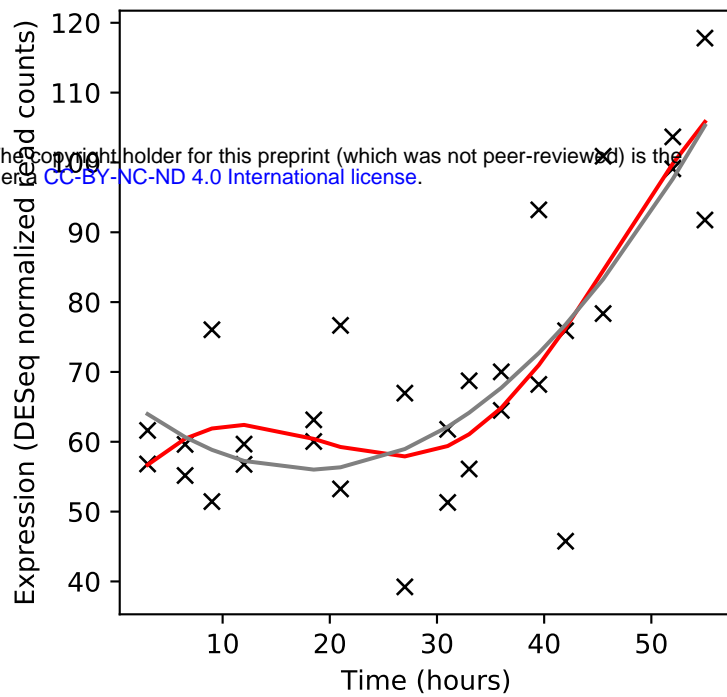
Rv0613c/-



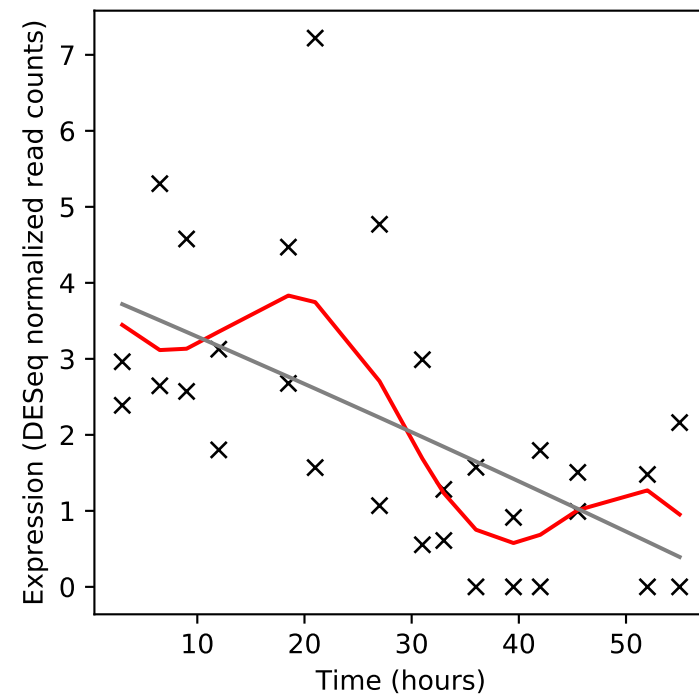
Rv0614/-



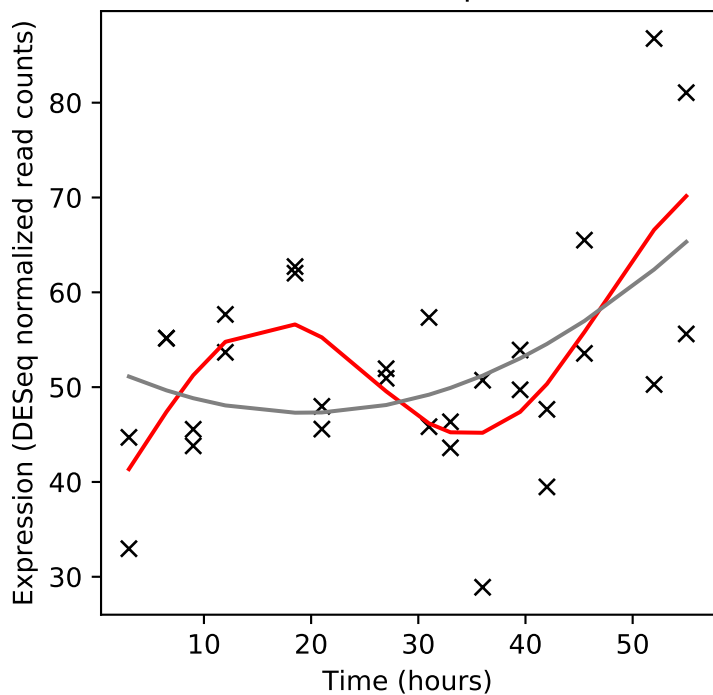
Rv0615/-



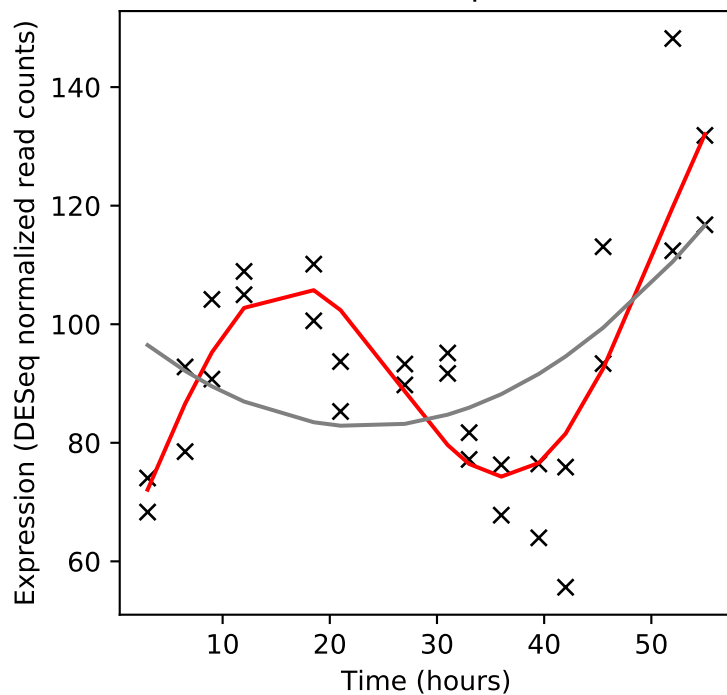
Rv0616c/-



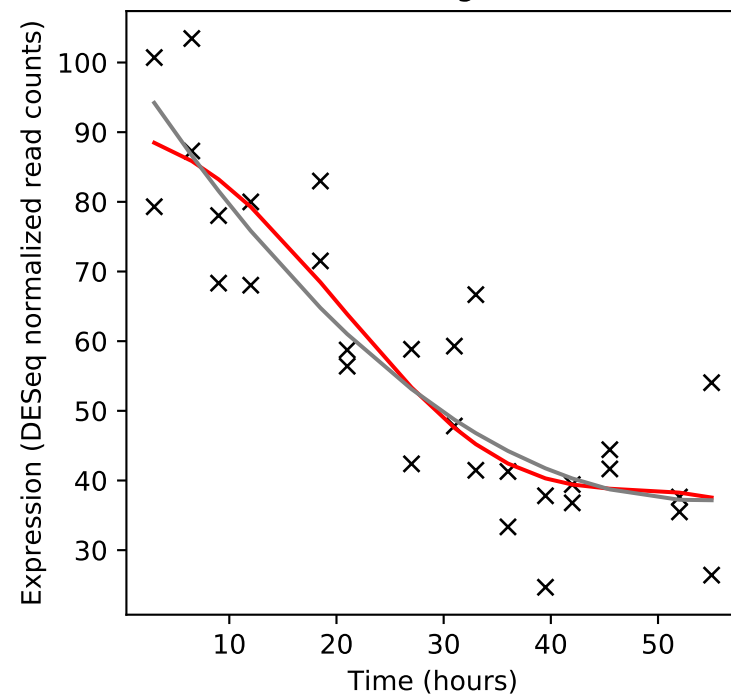
Rv0616A/vapB29



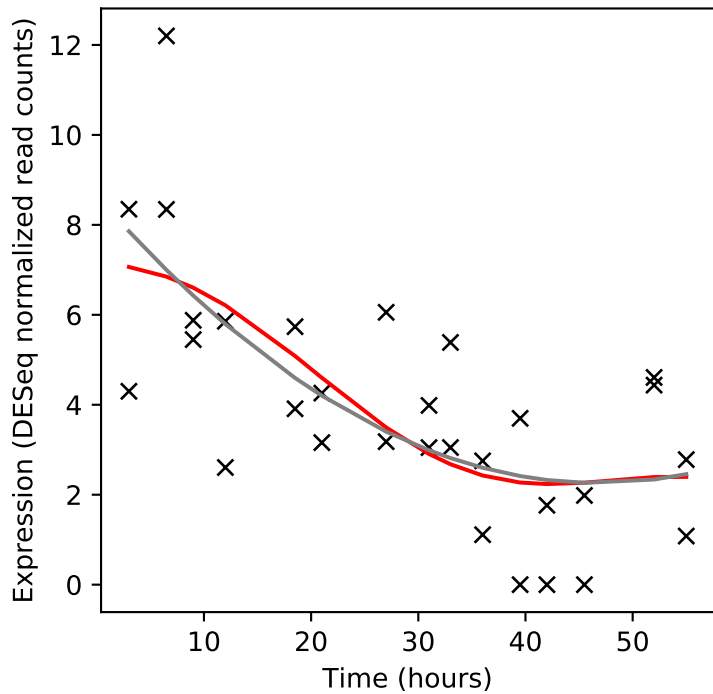
Rv0617/vapC29



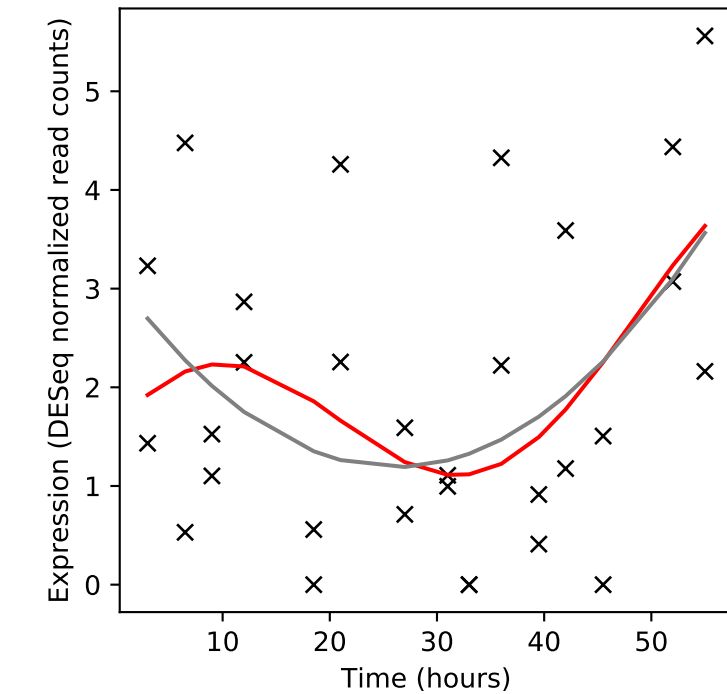
Rv0618/galTa



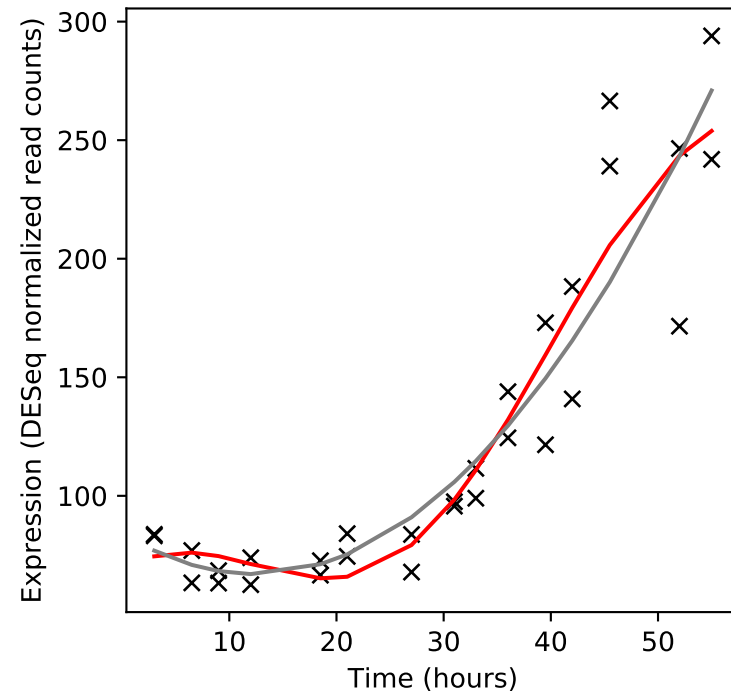
Rv0619/galTb



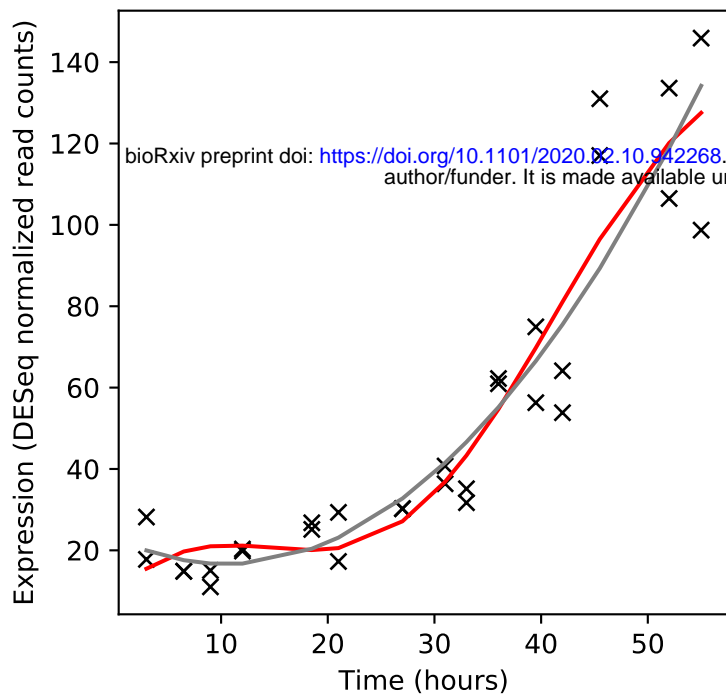
Rv0620/galK



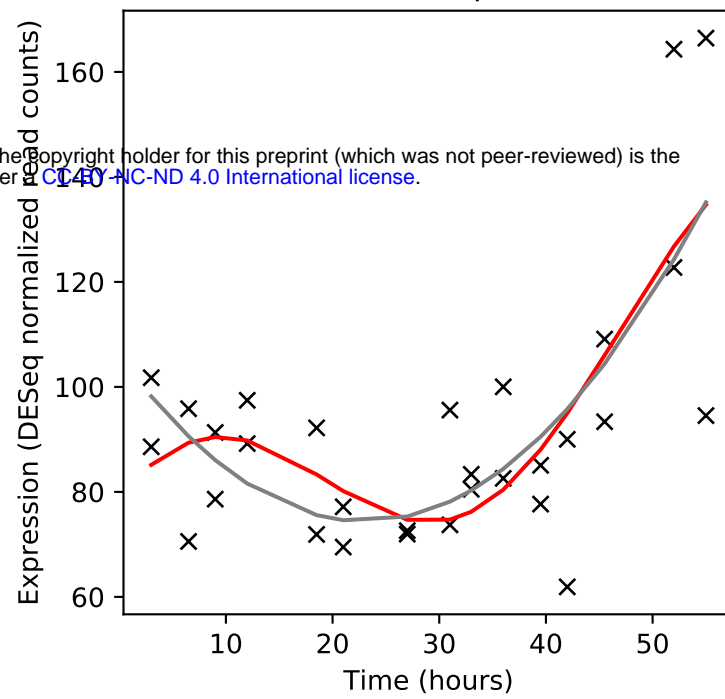
Rv0621/-



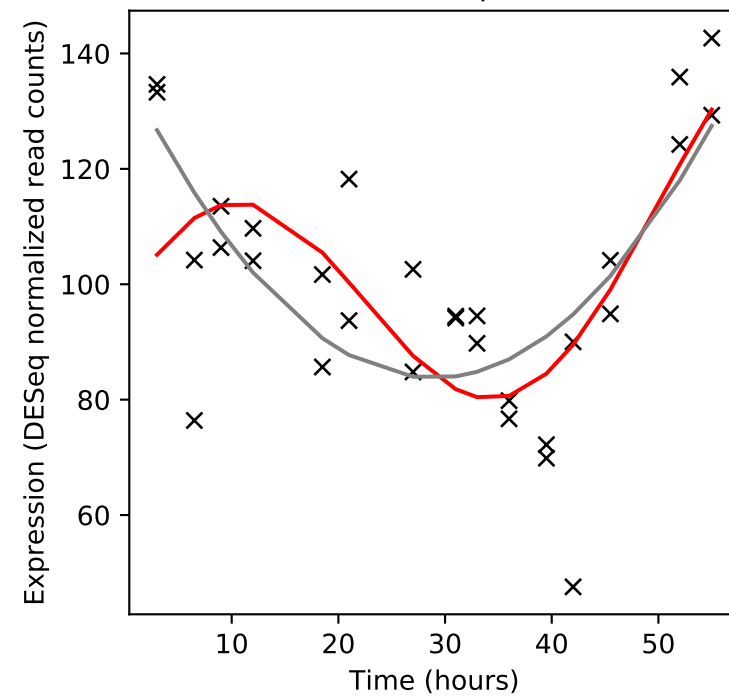
Rv0622/-



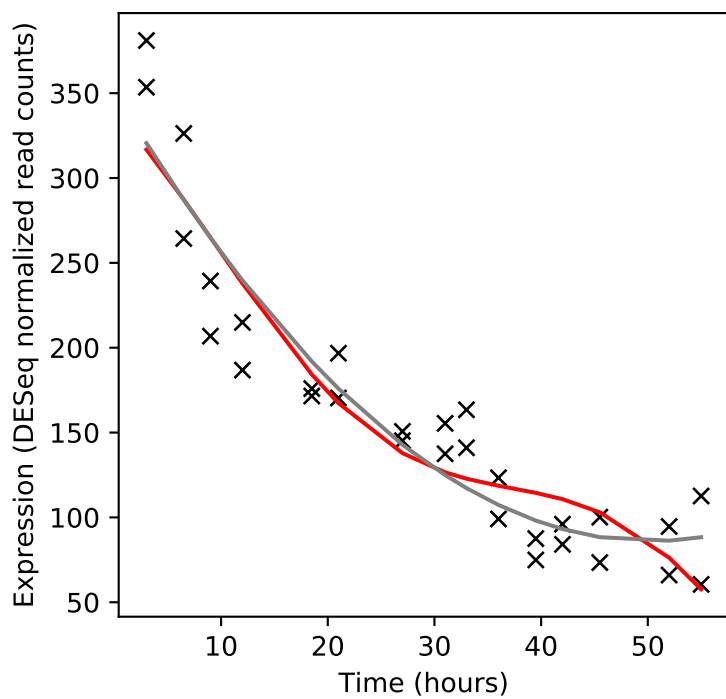
Rv0623/vapB30



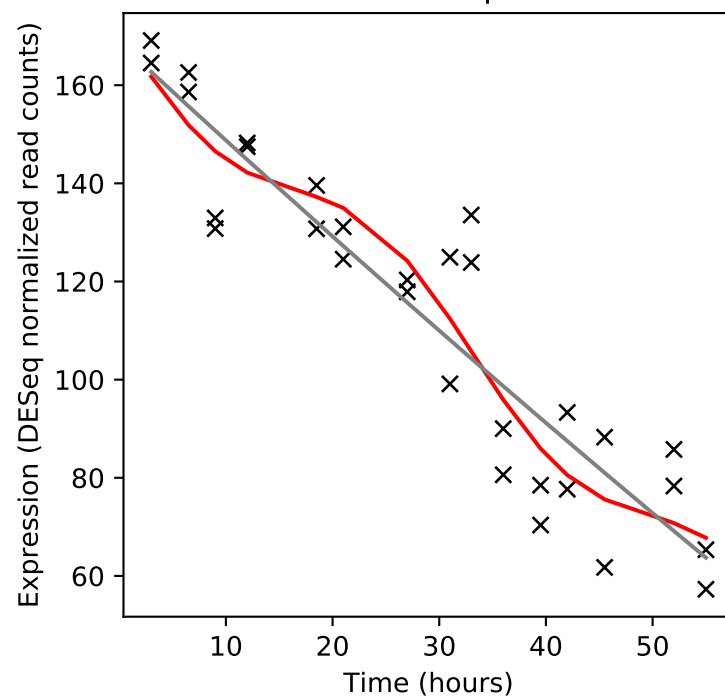
Rv0624/vapC30



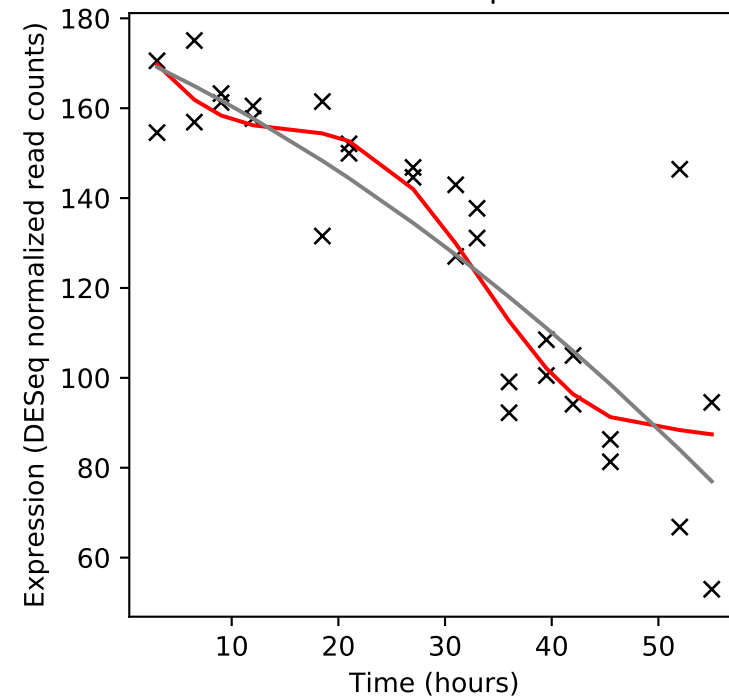
Rv0625c/-



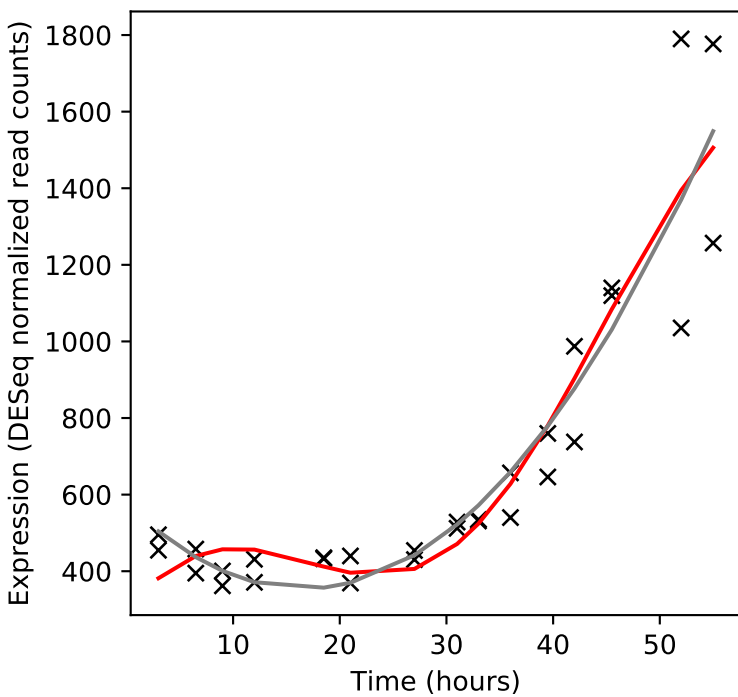
Rv0626/vapB5



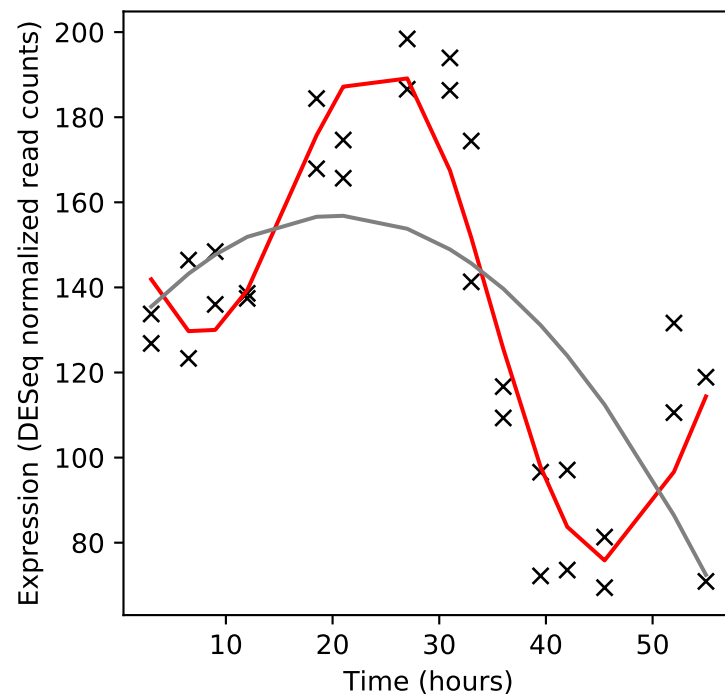
Rv0627/vapC5



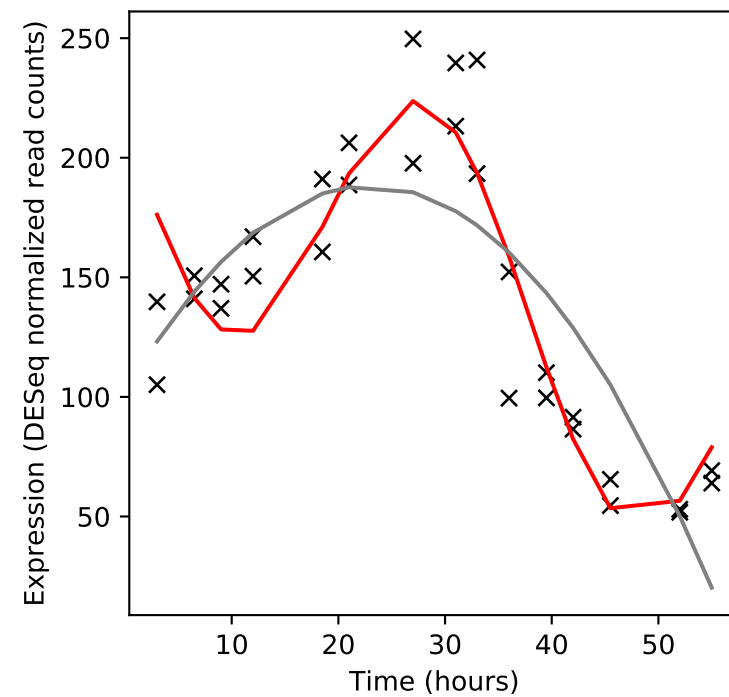
Rv0628c/-



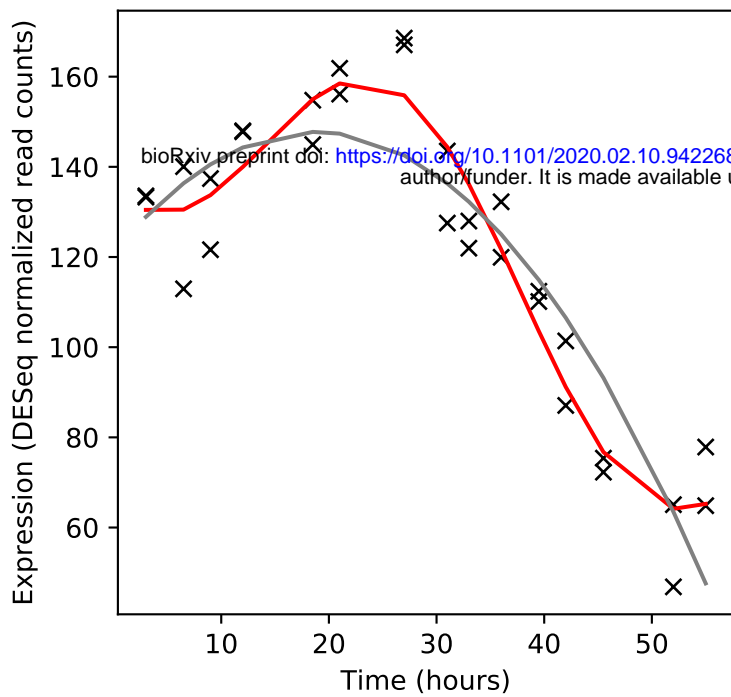
Rv0629c/recD



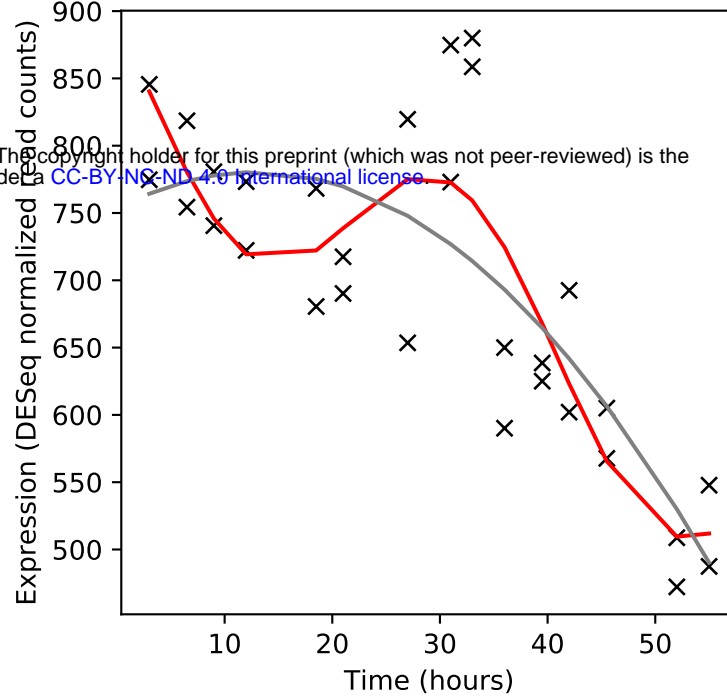
Rv0630c/recB



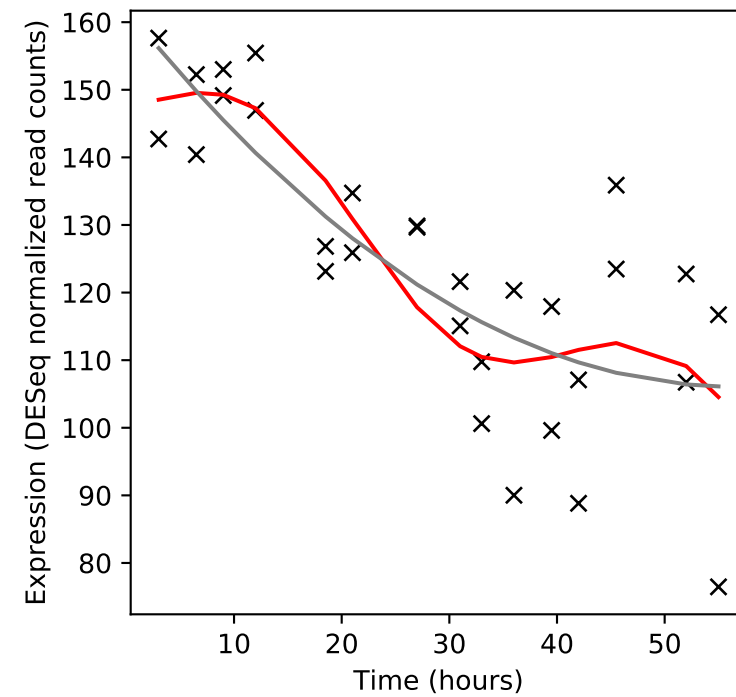
Rv0631c/recC



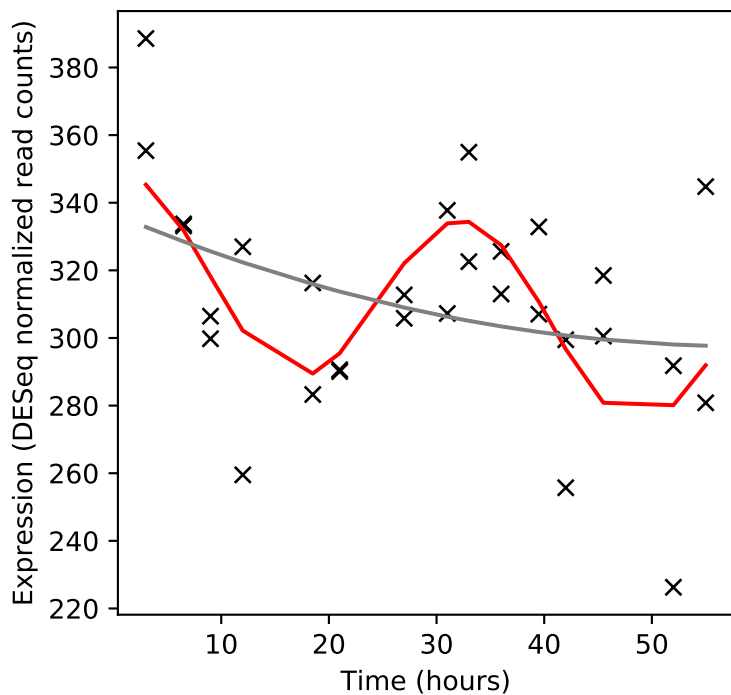
Rv0632c/echA3



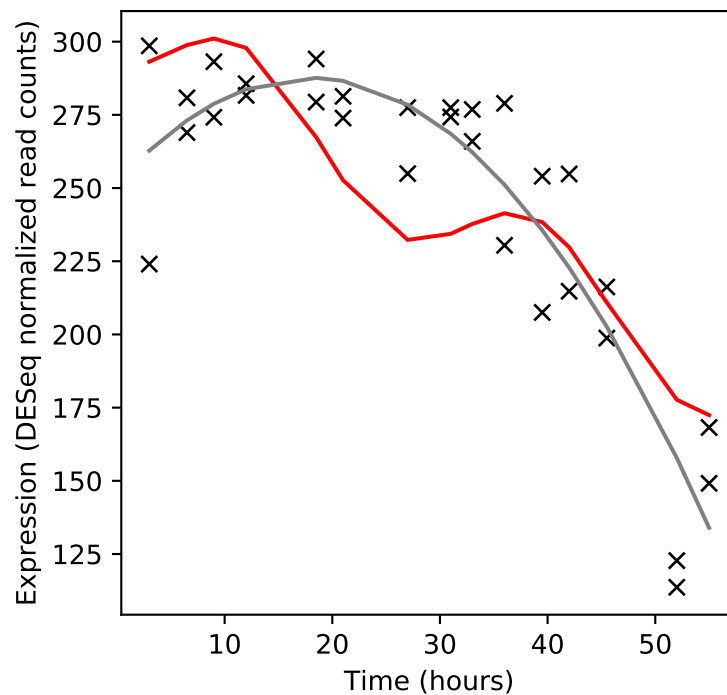
Rv0633c/-



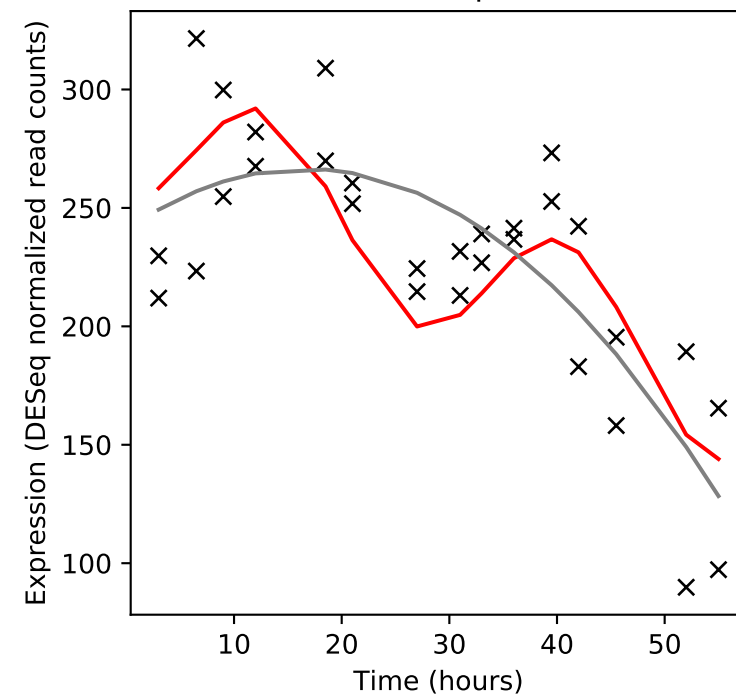
Rv0634c/-



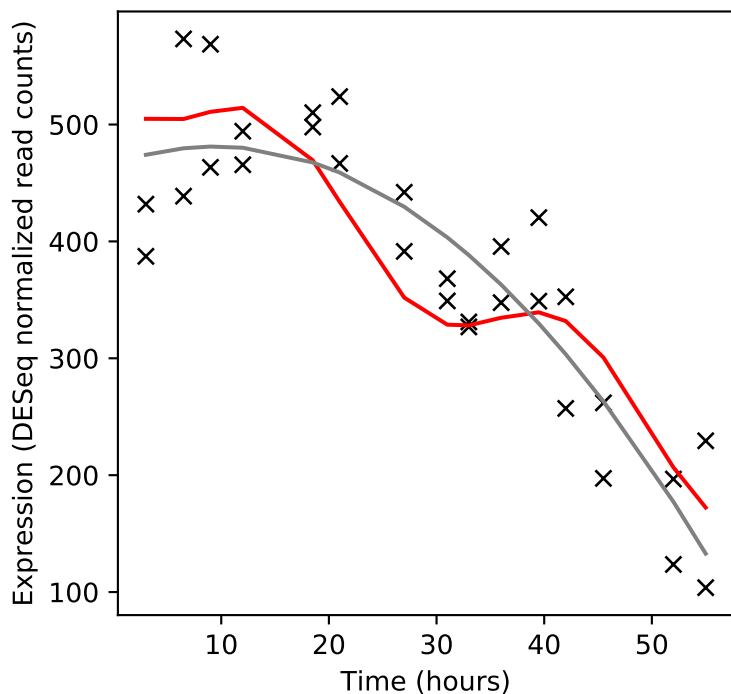
Rv0634A/-



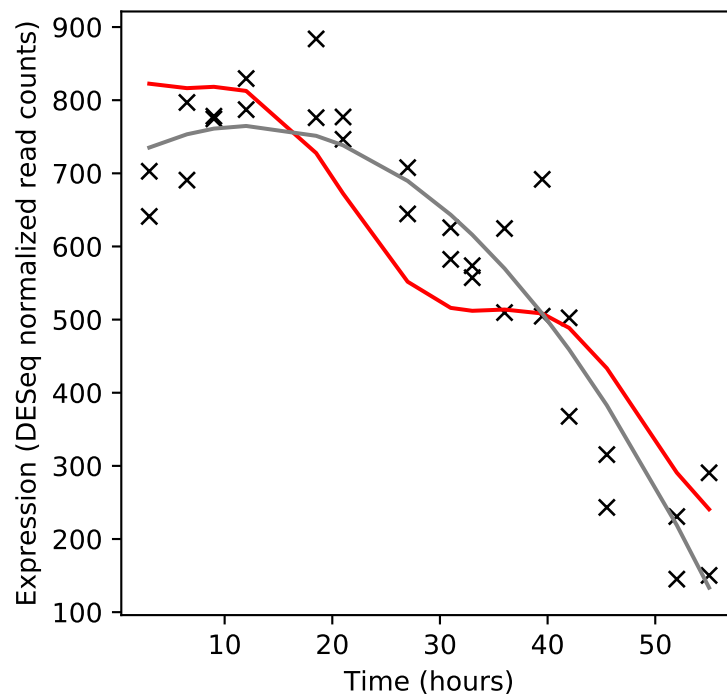
Rv0634B/rpmG2



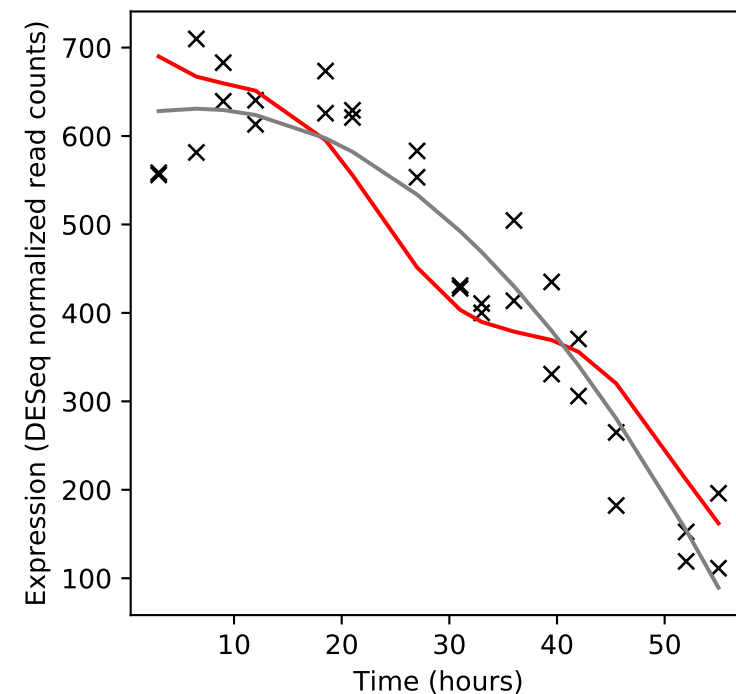
Rv0635/hadA



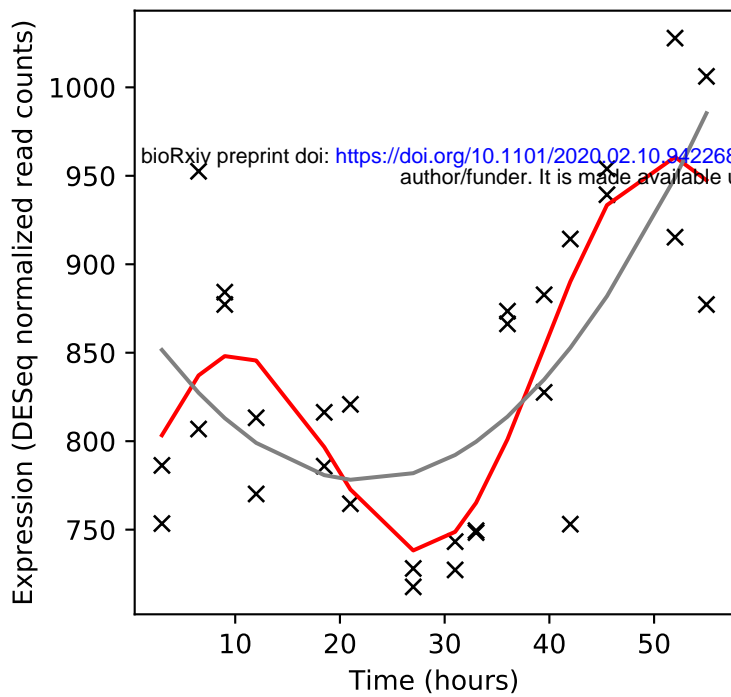
Rv0636/hadB



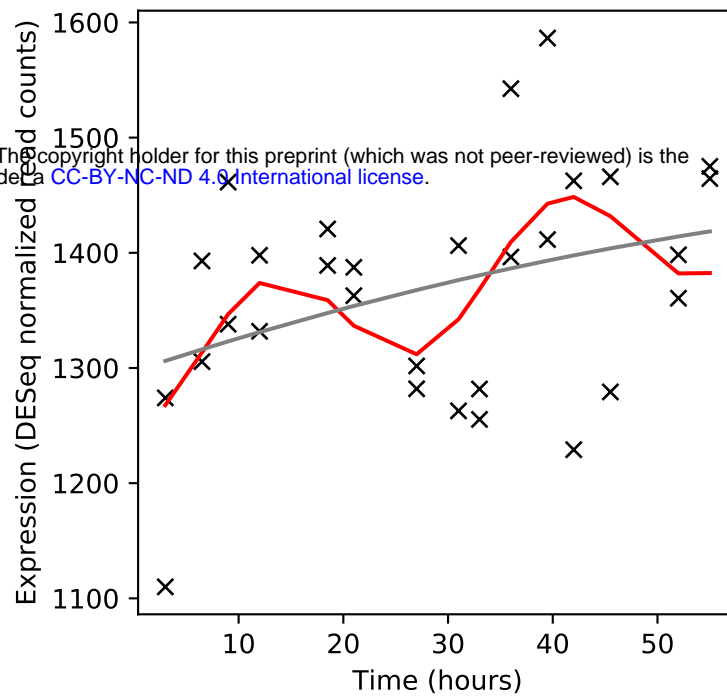
Rv0637/hadC



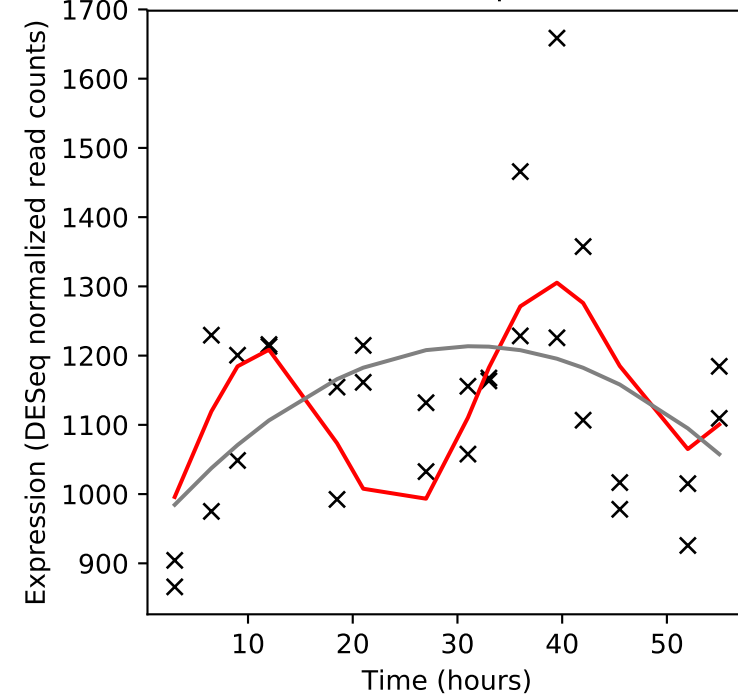
Rv0638/secE1



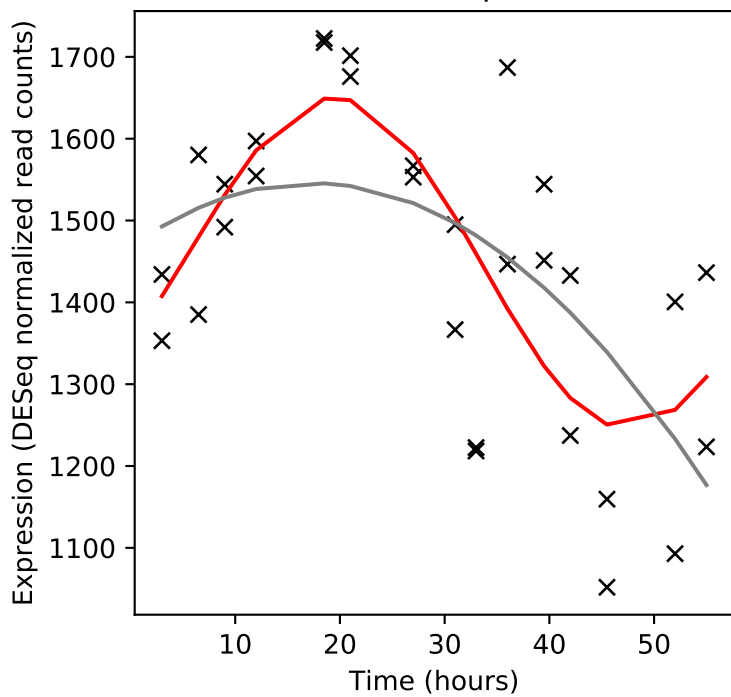
Rv0639/nusG



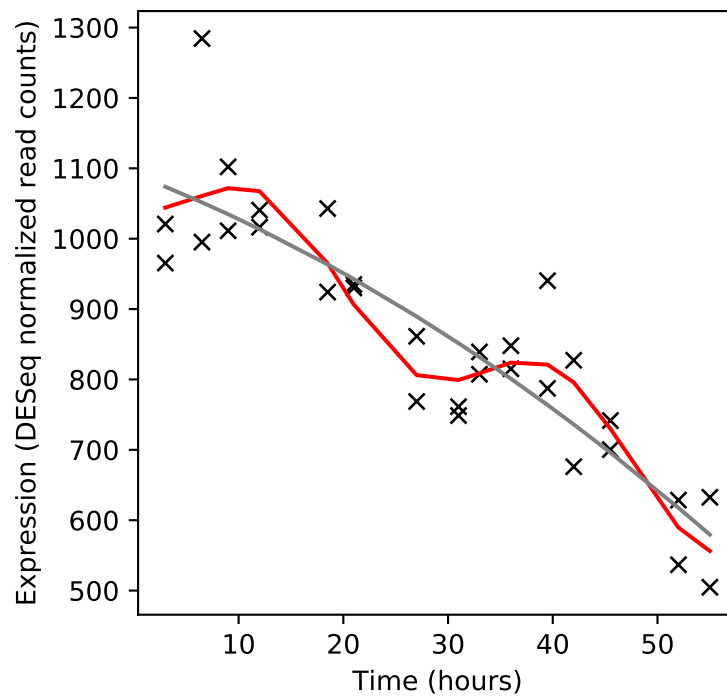
Rv0640/rplK



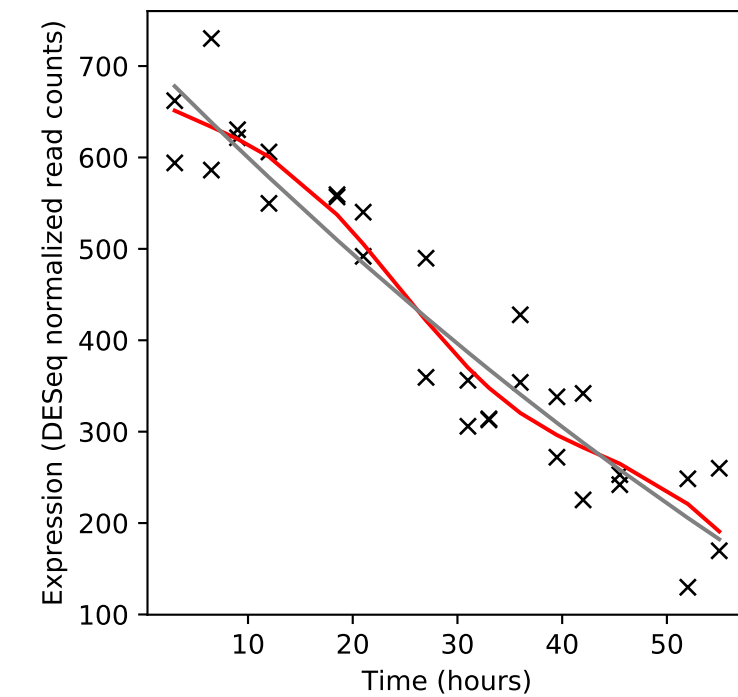
Rv0641/rplA



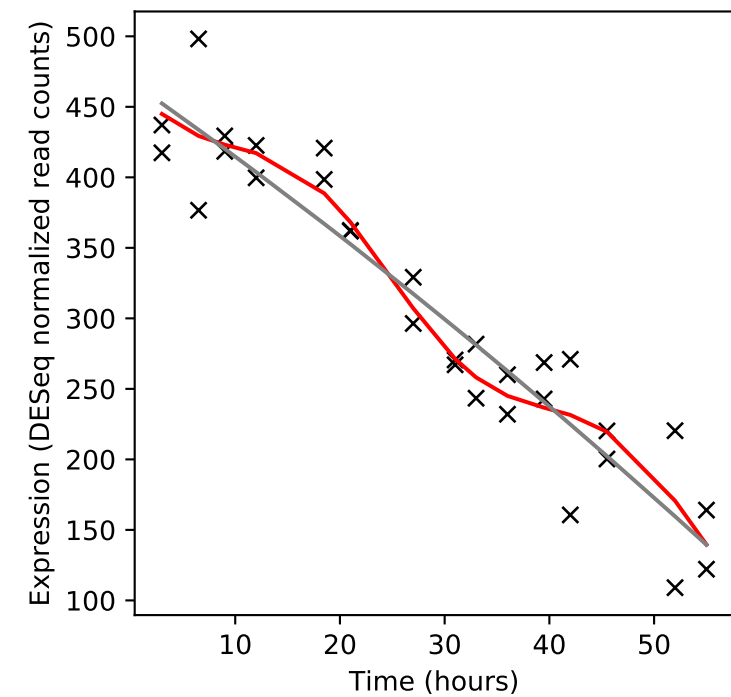
Rv0642c/mmaA4



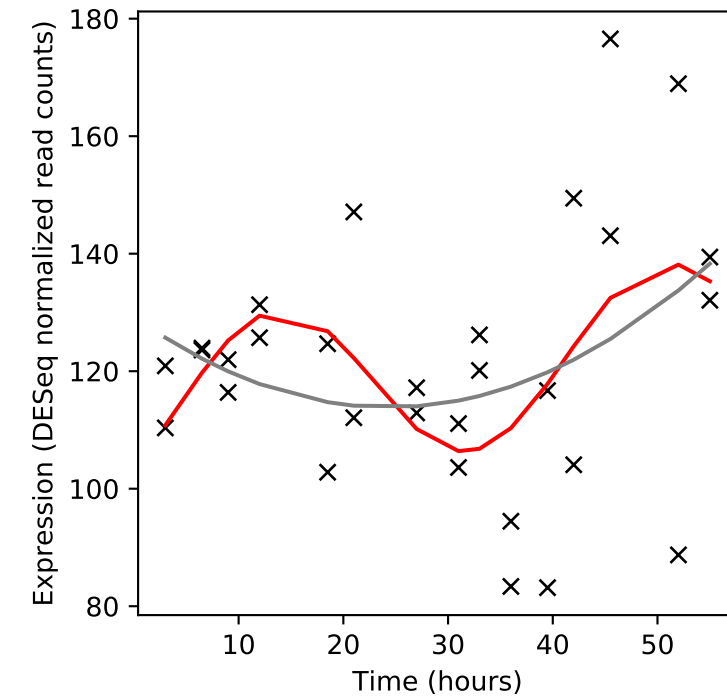
Rv0643c/mmaA3



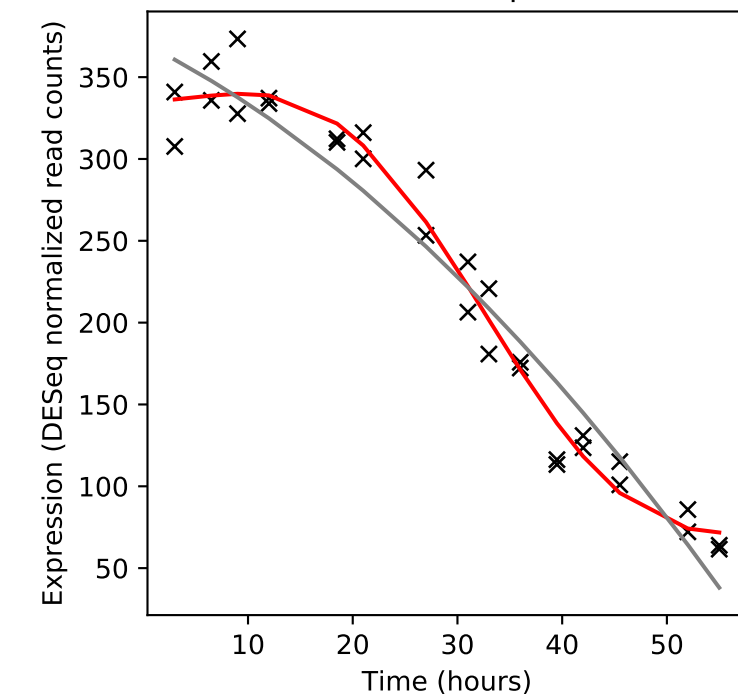
Rv0644c/mmaA2



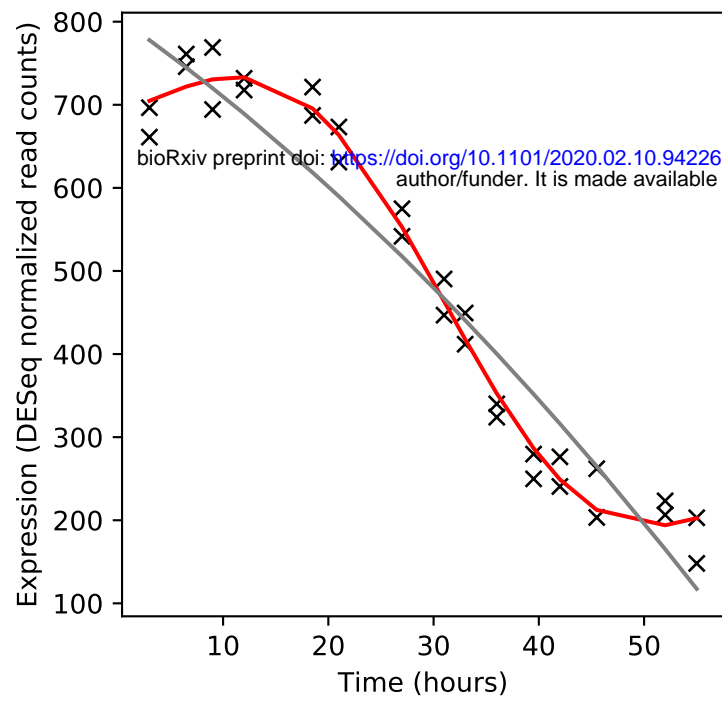
Rv0645c/mmaA1



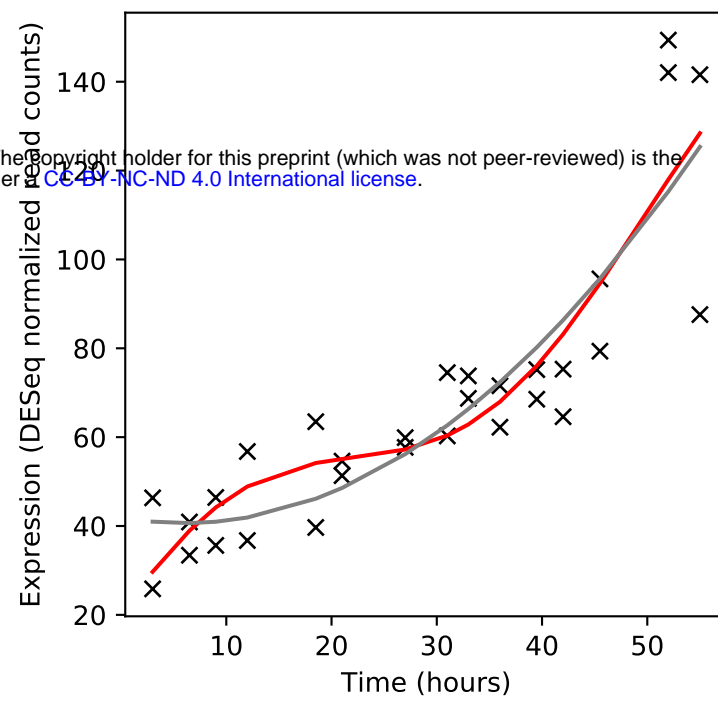
Rv0646c/lipG



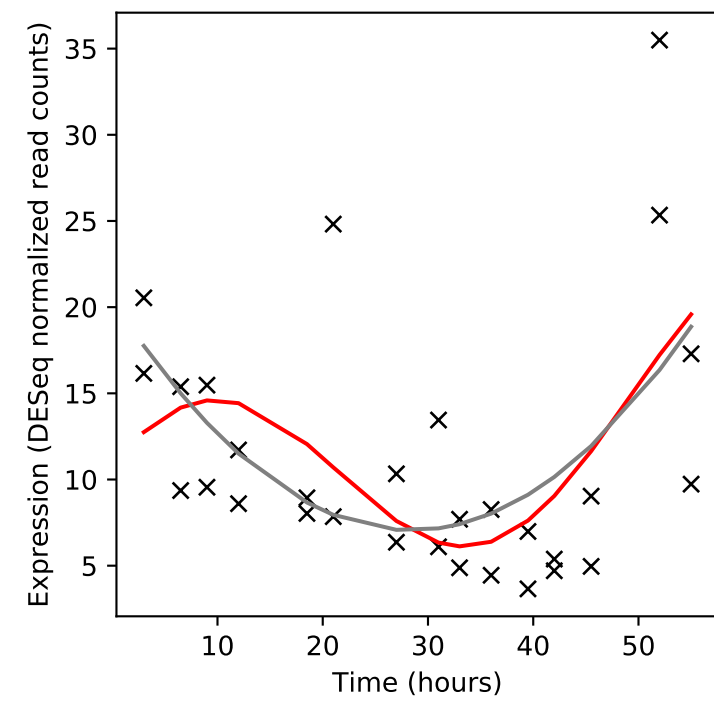
Rv0647c/-



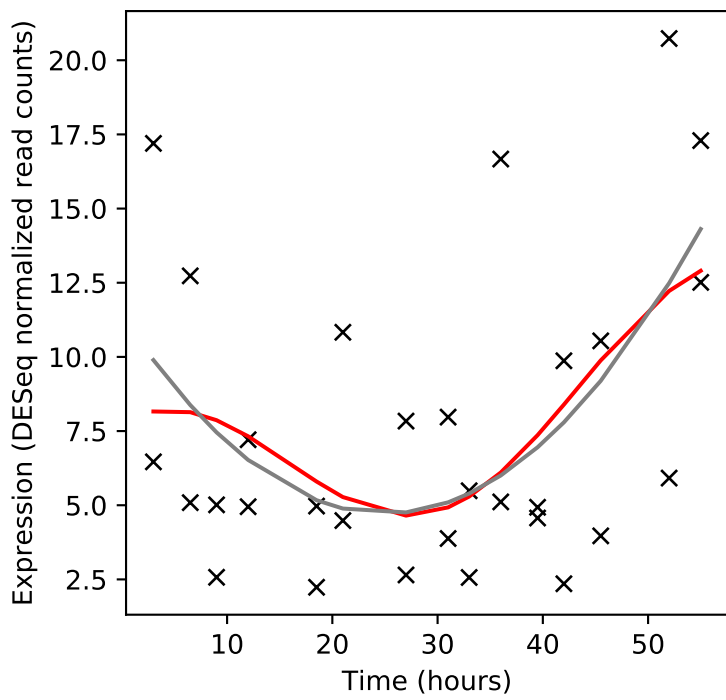
Rv0648/-



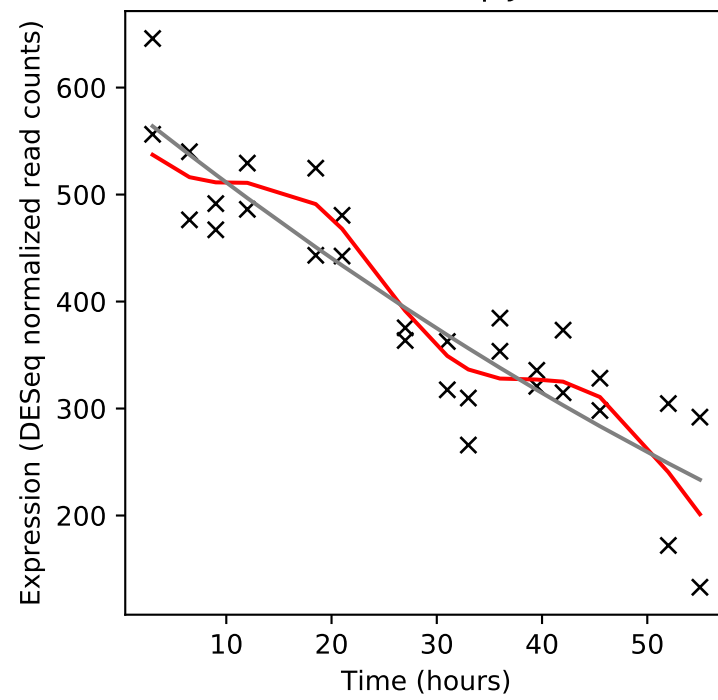
Rv0649/fabD2



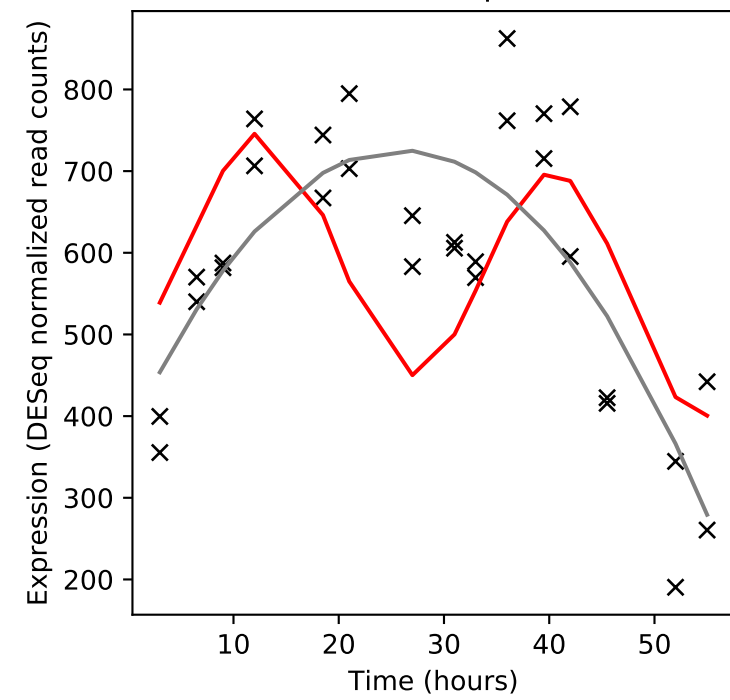
Rv0650/-



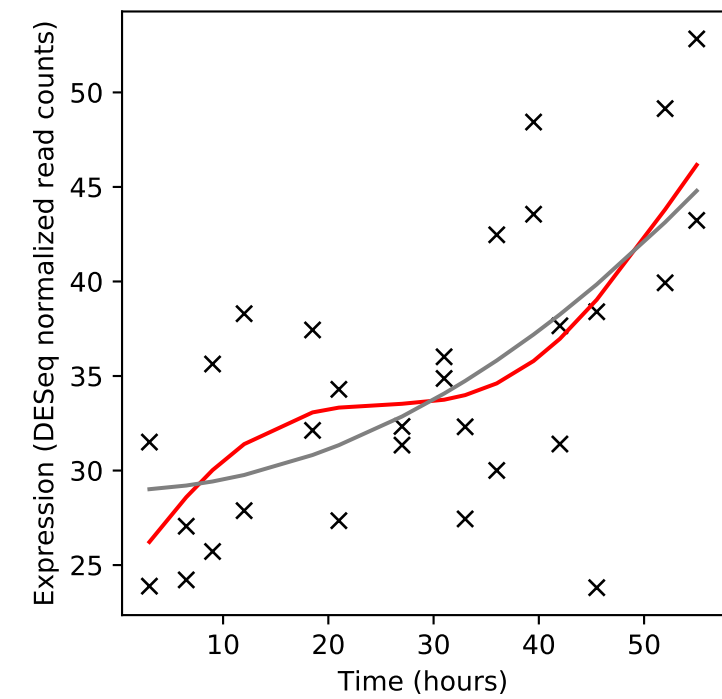
Rv0651/rplJ



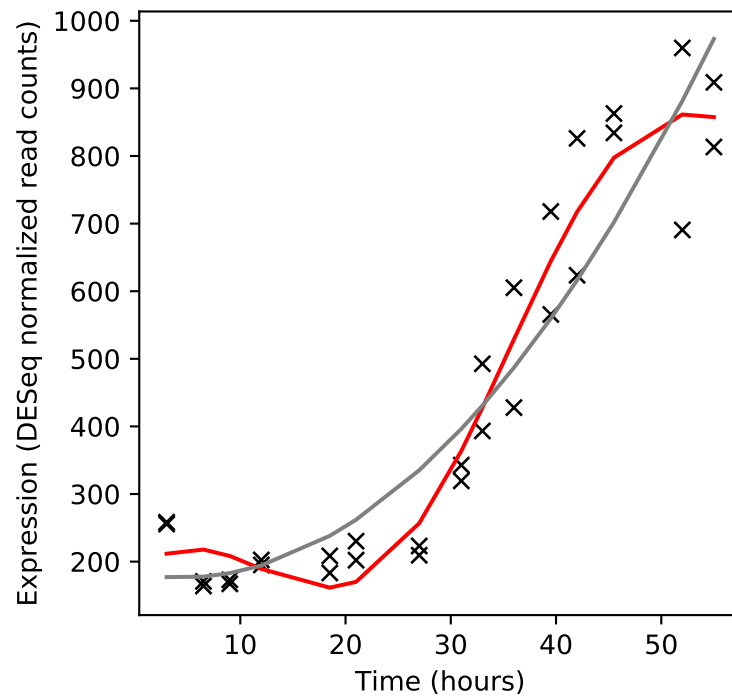
Rv0652/rplL



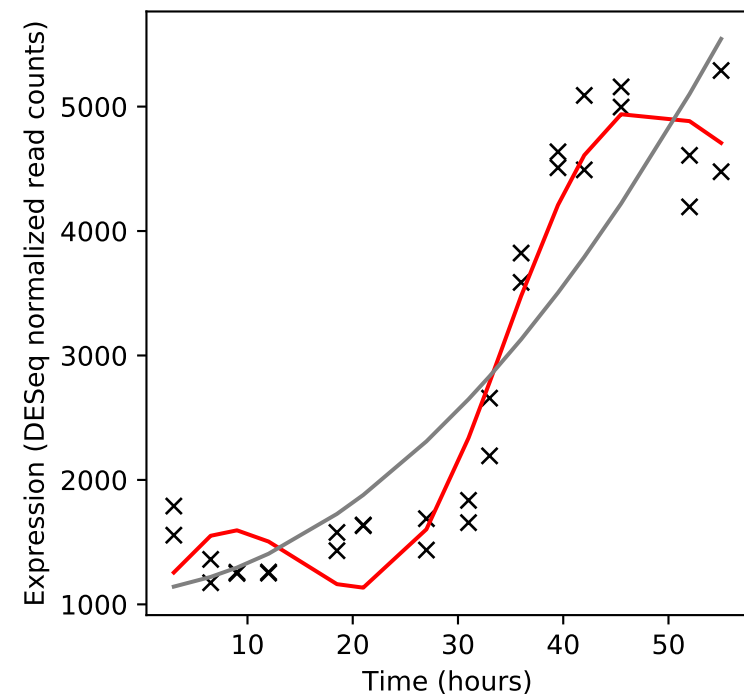
Rv0653c/-



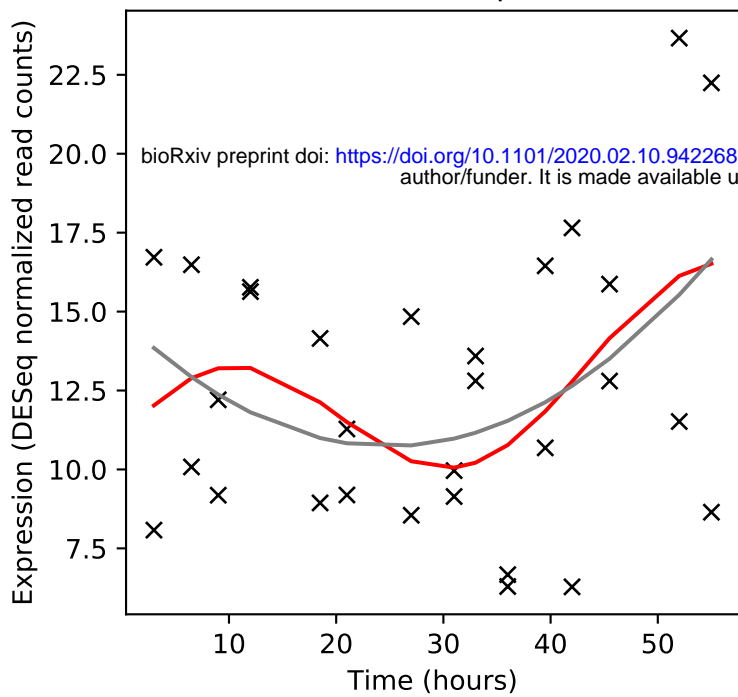
Rv0654/-



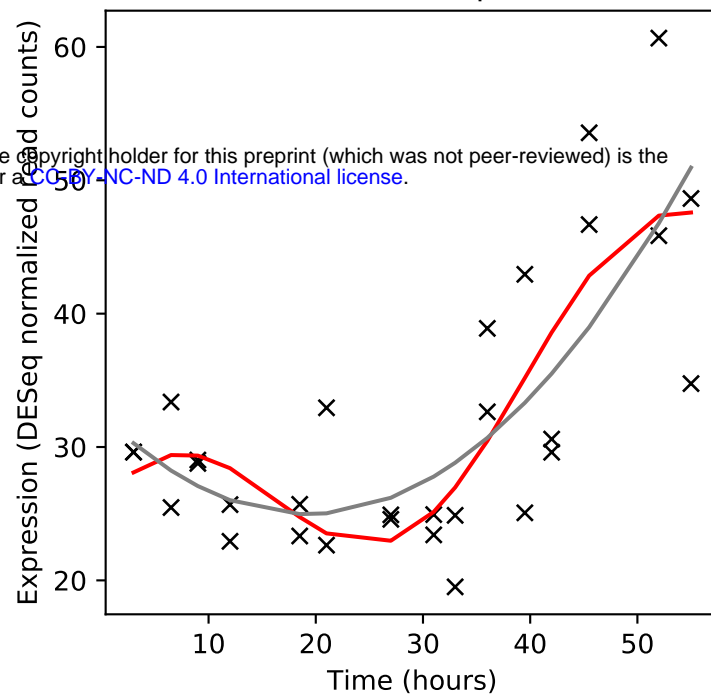
Rv0655/mkl



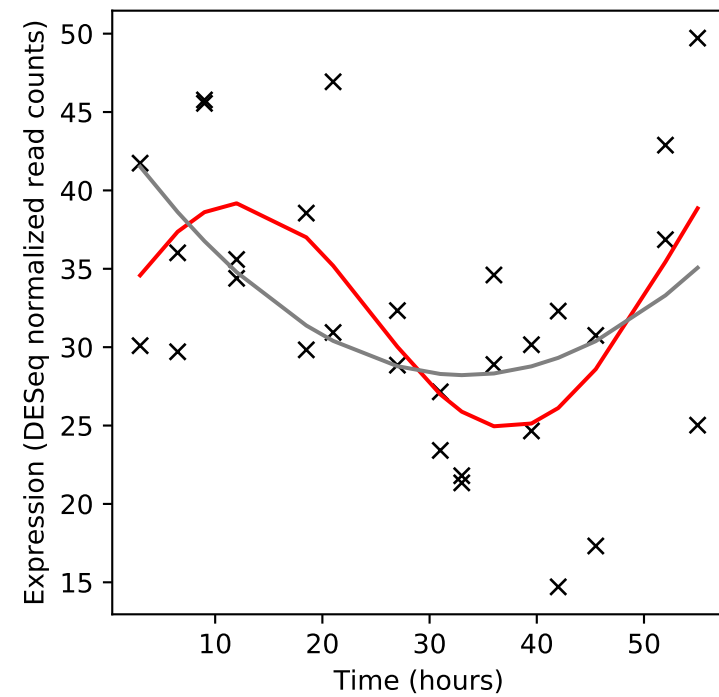
Rv0656c/vapC6



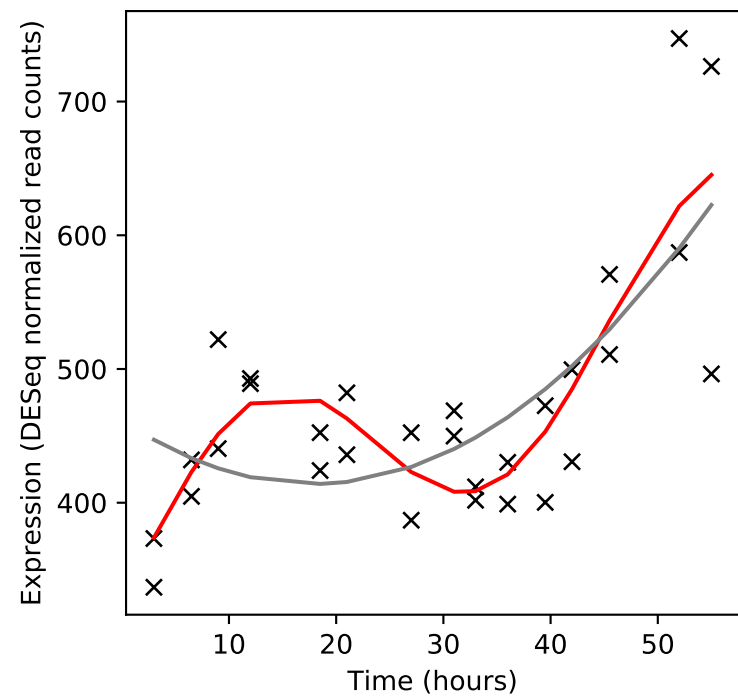
Rv0657c/vapB6



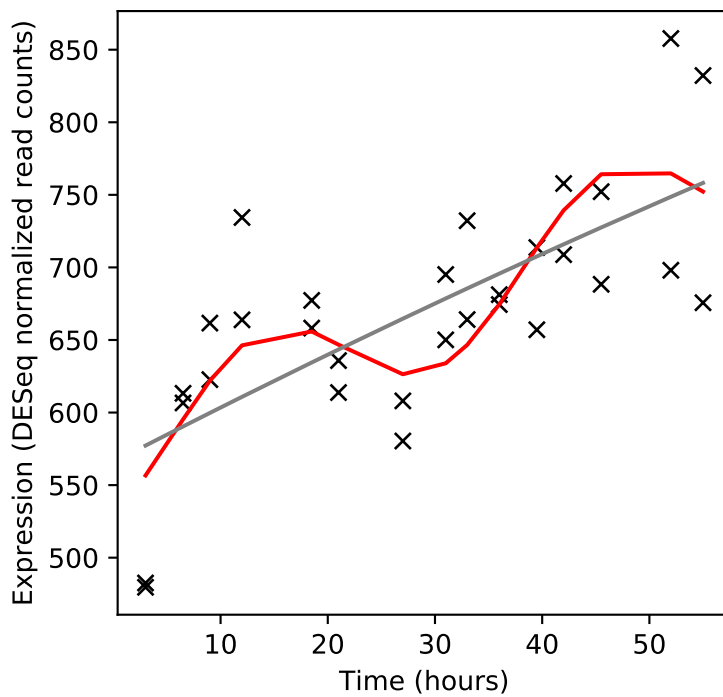
Rv0658c/-



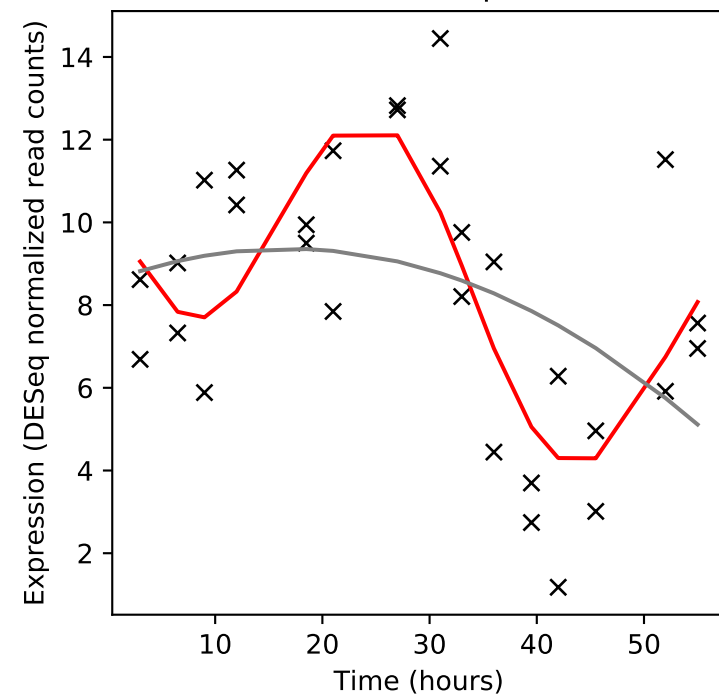
Rv0659c/mazF2



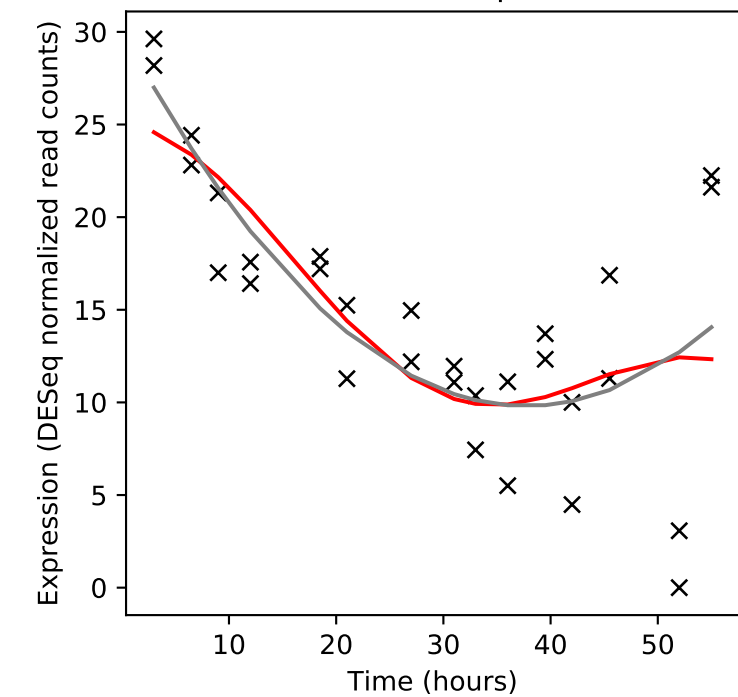
Rv0660c/mazE2



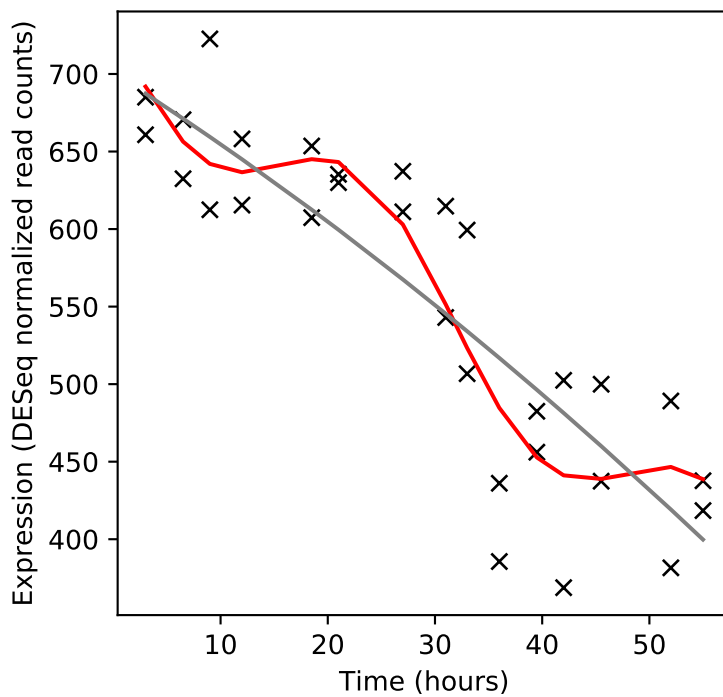
Rv0661c/vapC7



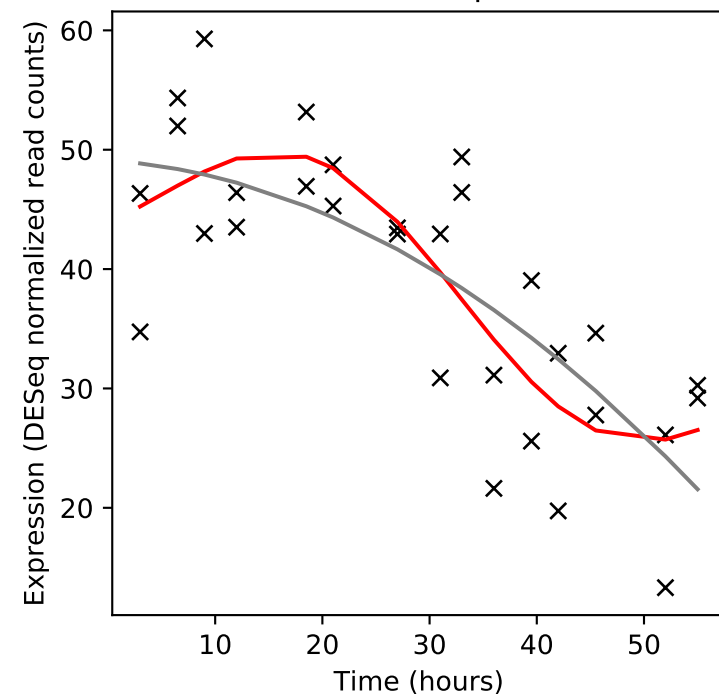
Rv0662c/vapB7



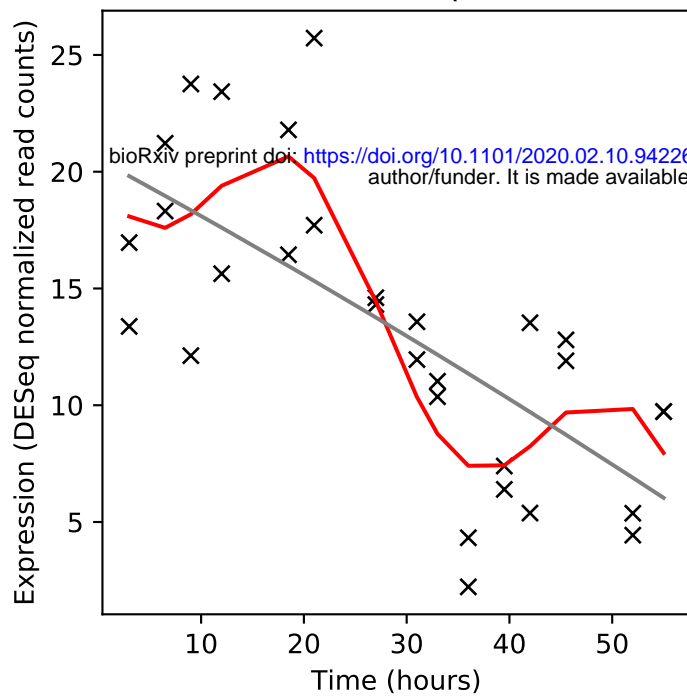
Rv0663/atsD



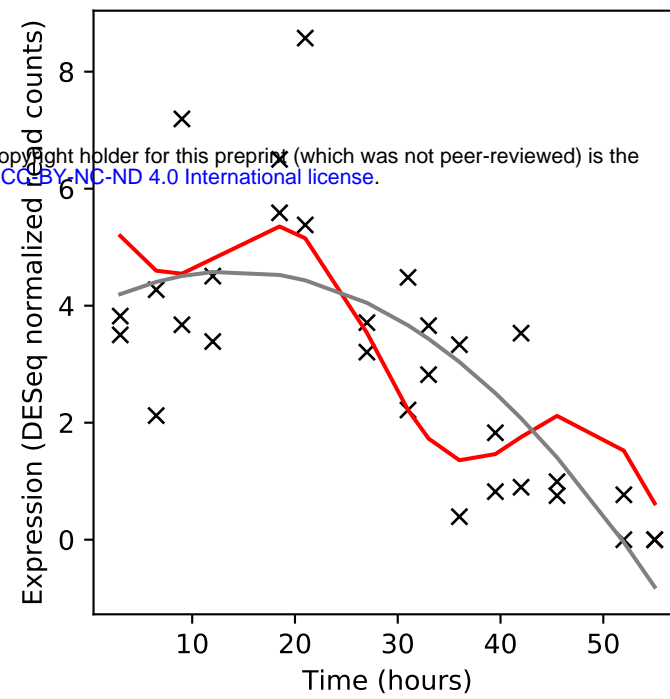
Rv0664/vapB8



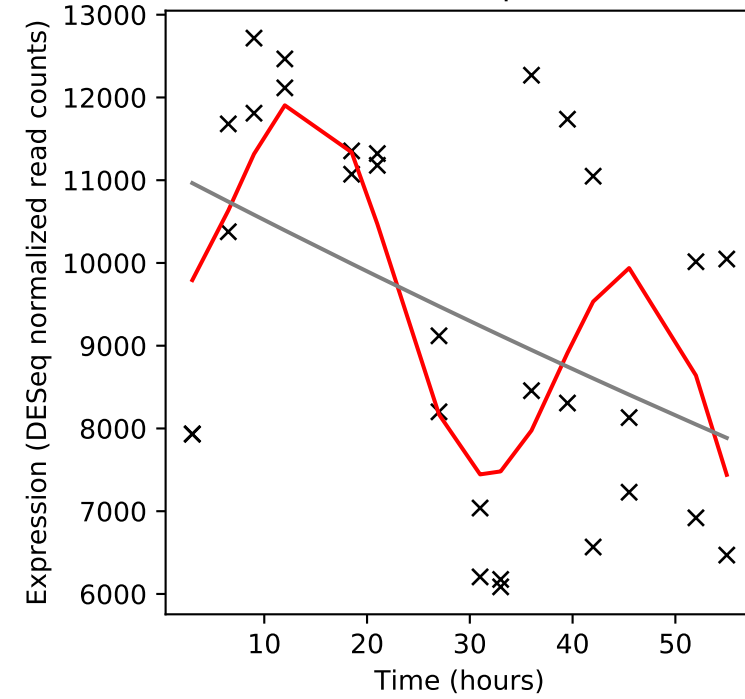
Rv0665/vapC8



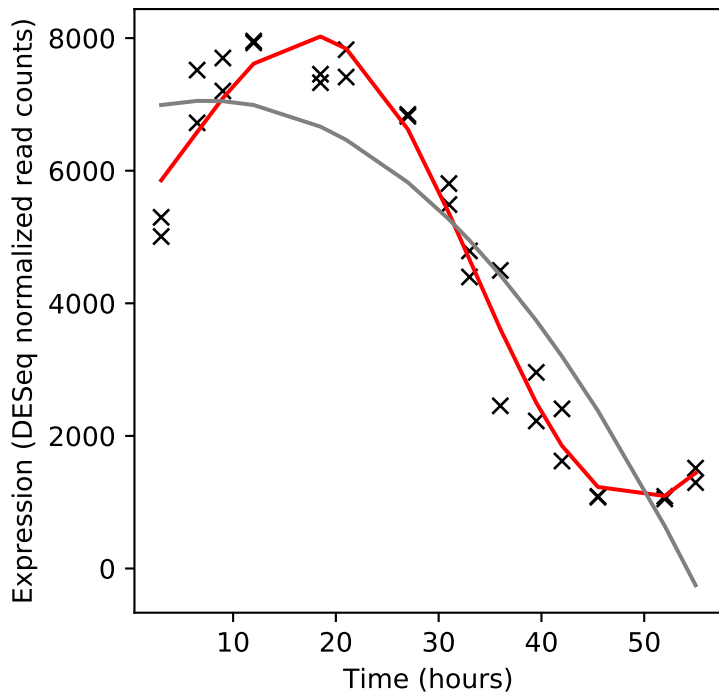
Rv0666/-



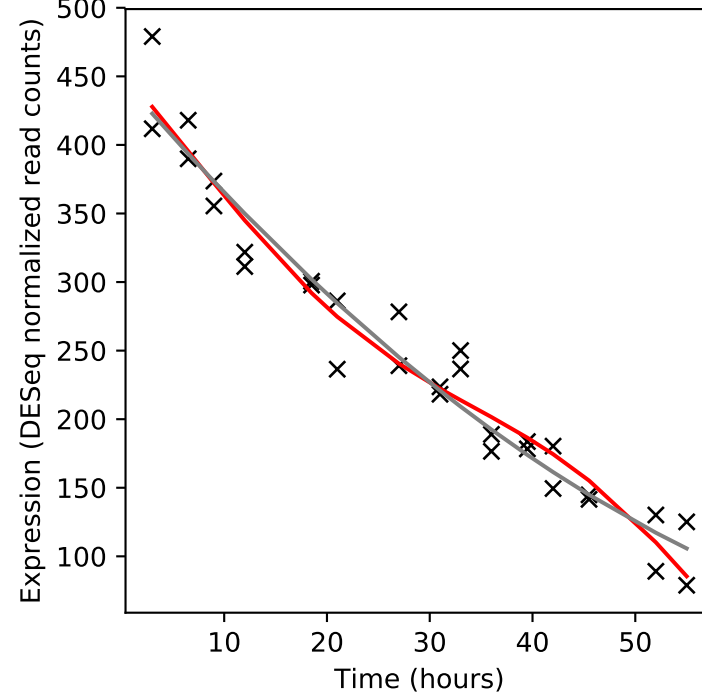
Rv0667/rpoB



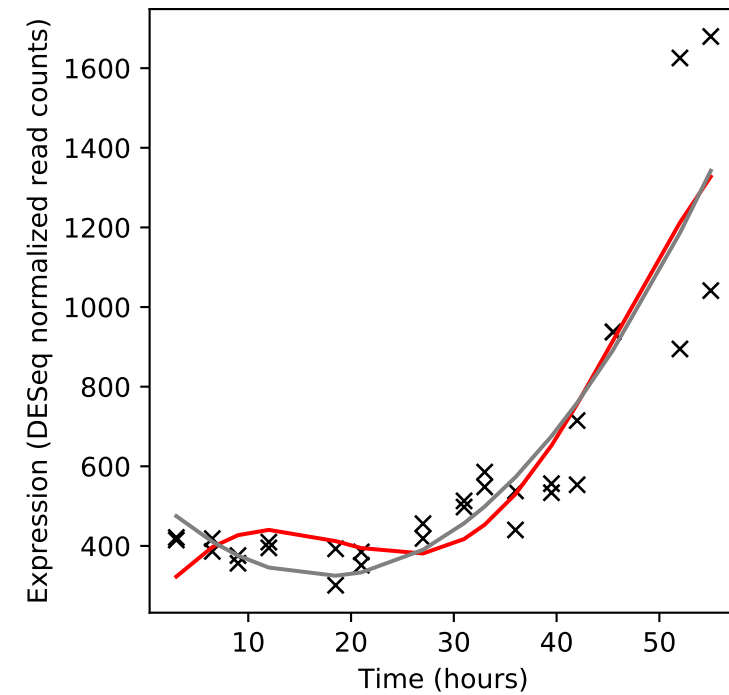
Rv0668/rpoC



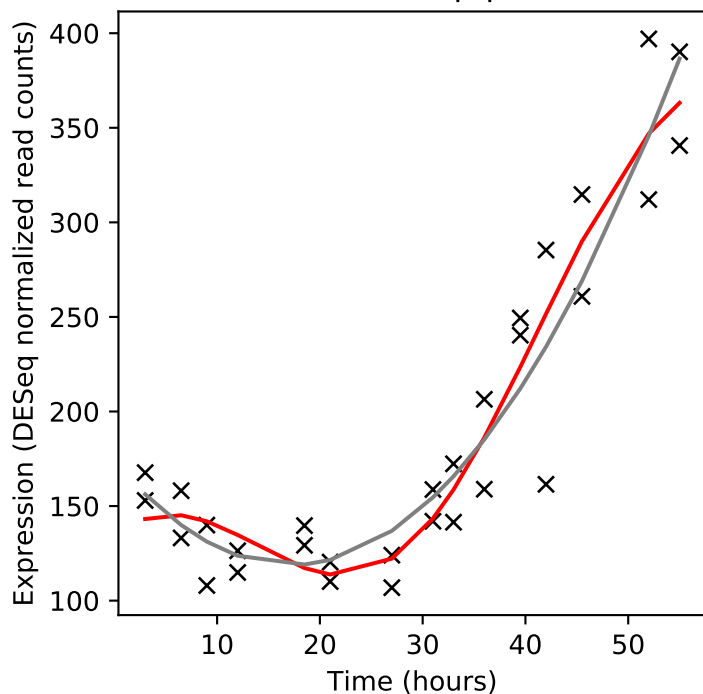
Rv0669c/-



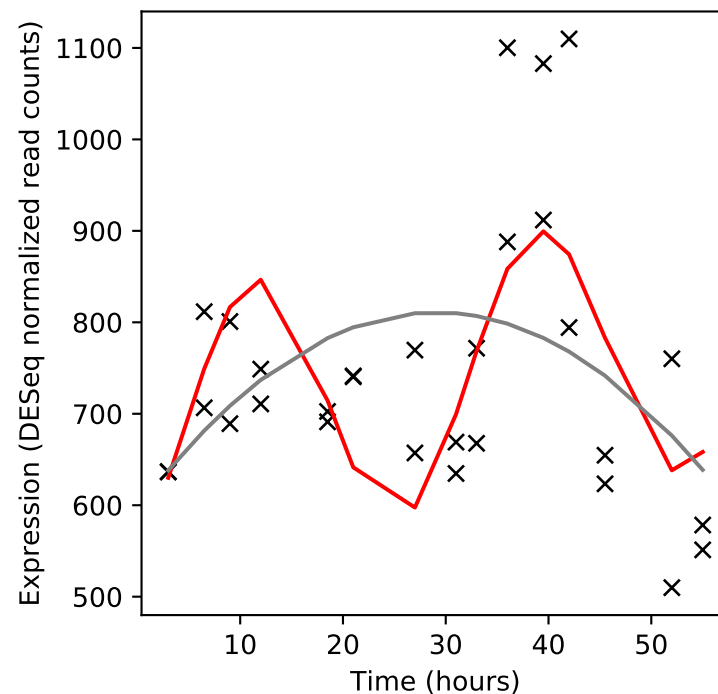
Rv0670/end



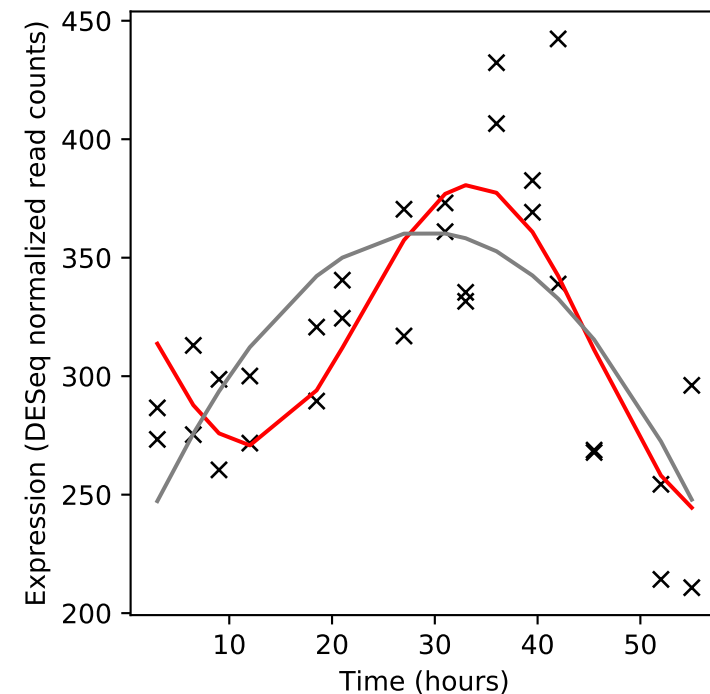
Rv0671/lpqP



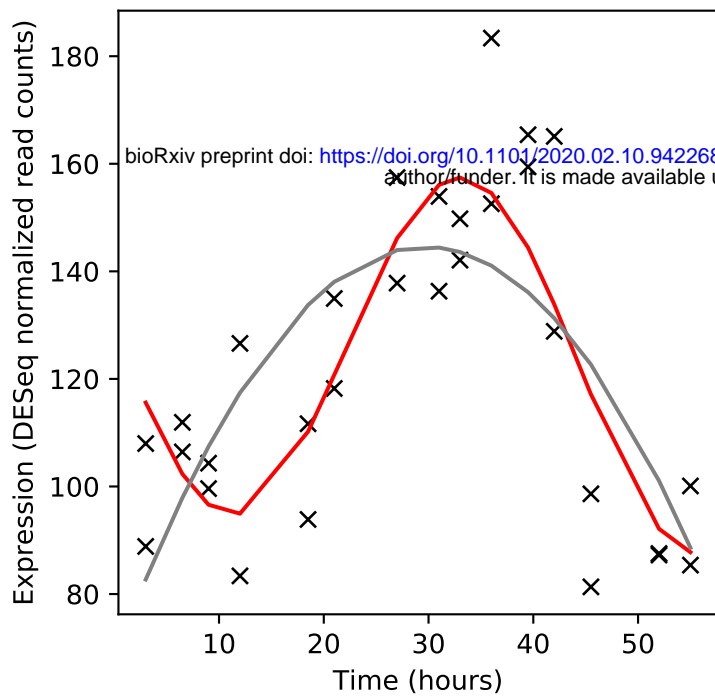
Rv0672/fadE8



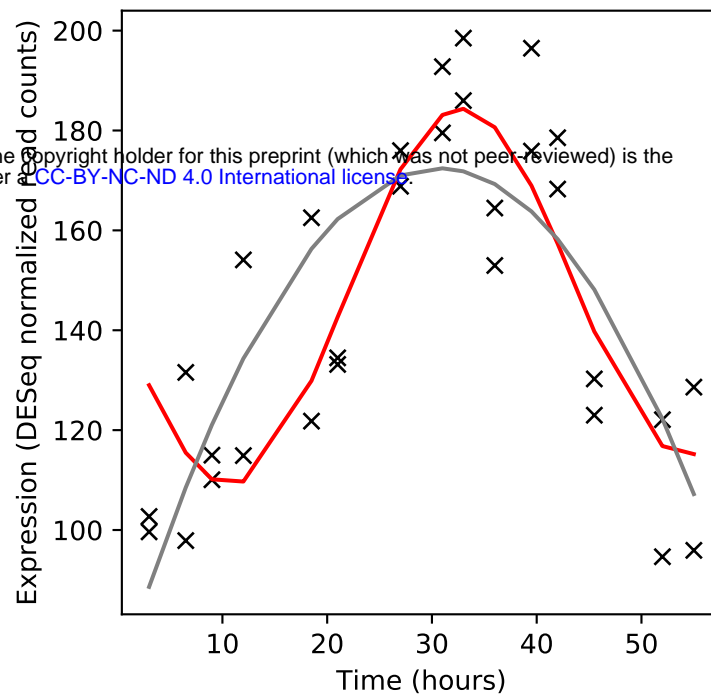
Rv0673/echA4



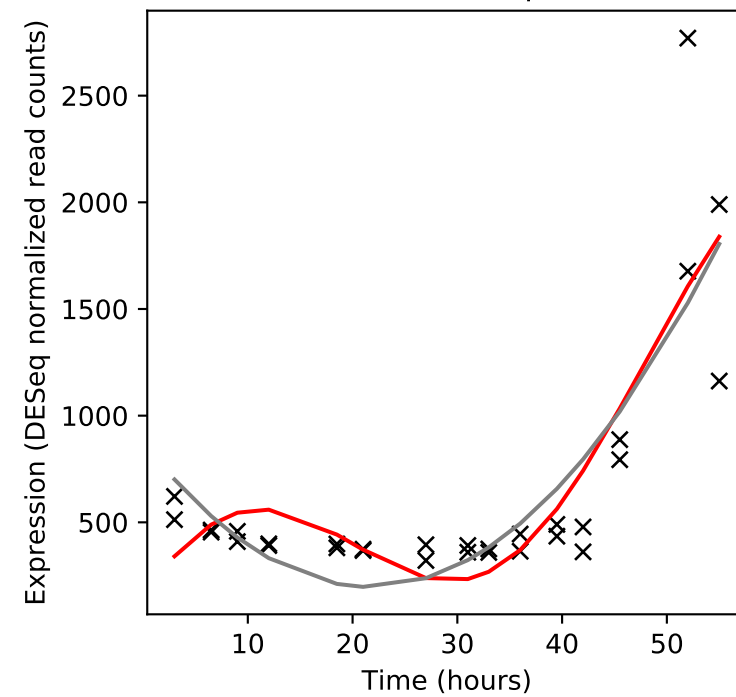
Rv0674/-



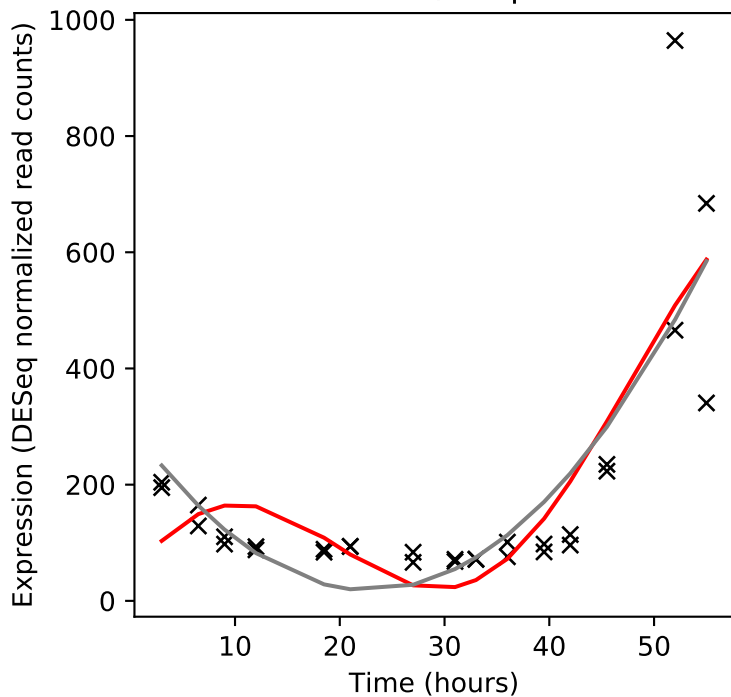
Rv0675/echA5



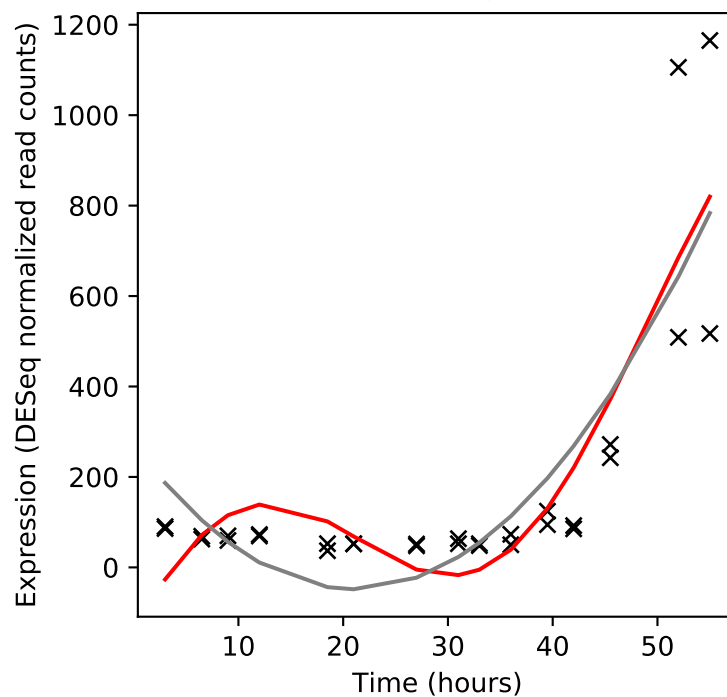
Rv0676c/mmpL5



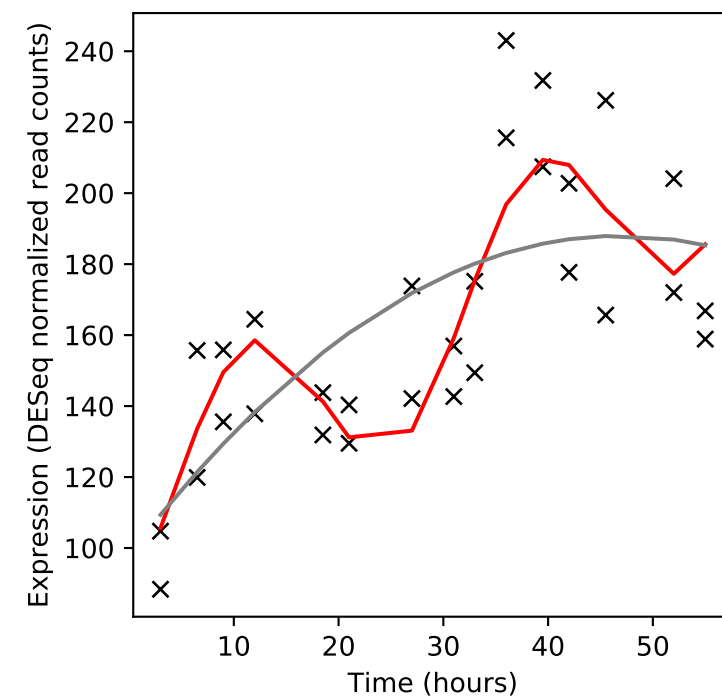
Rv0677c/mmpS5



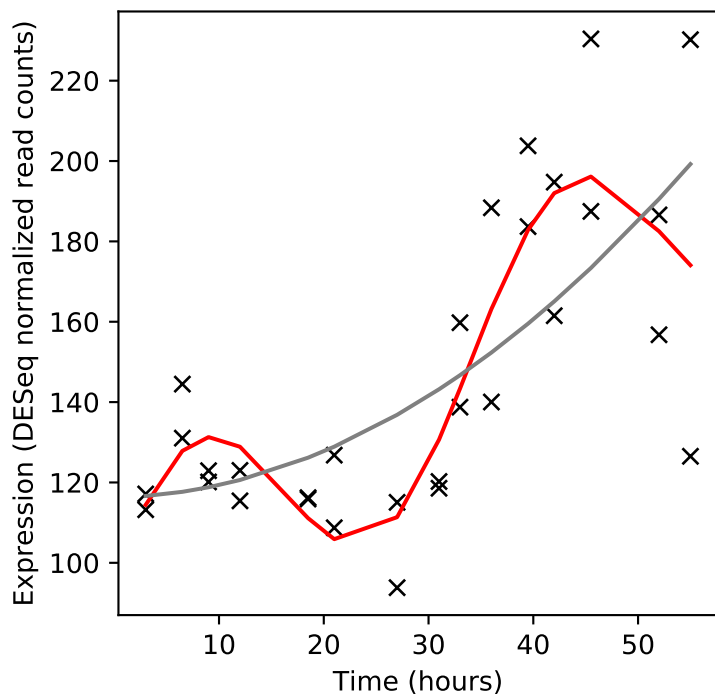
Rv0678/-



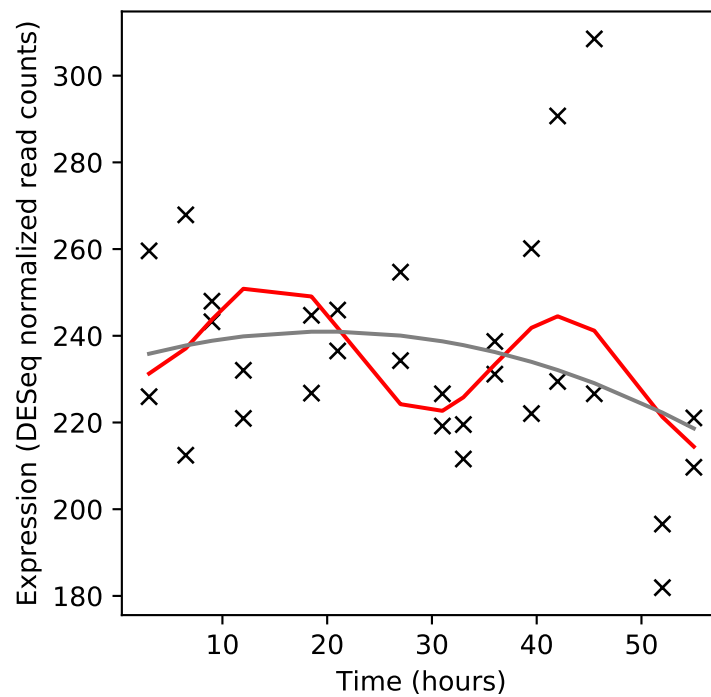
Rv0679c/-



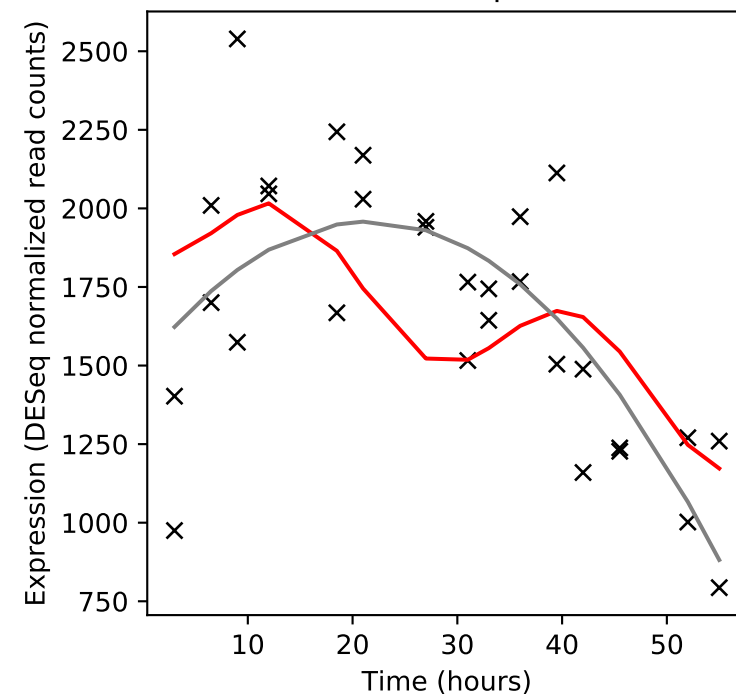
Rv0680c/-



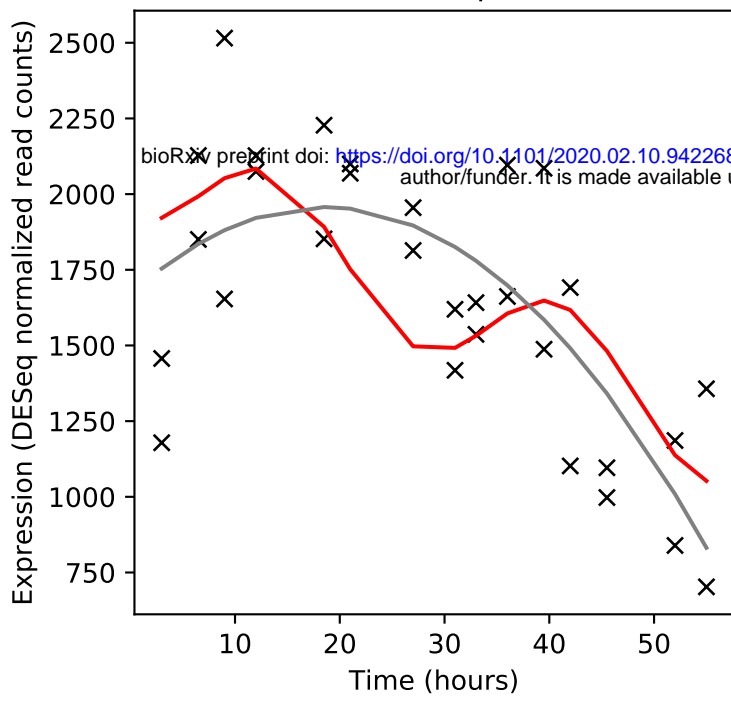
Rv0681/-



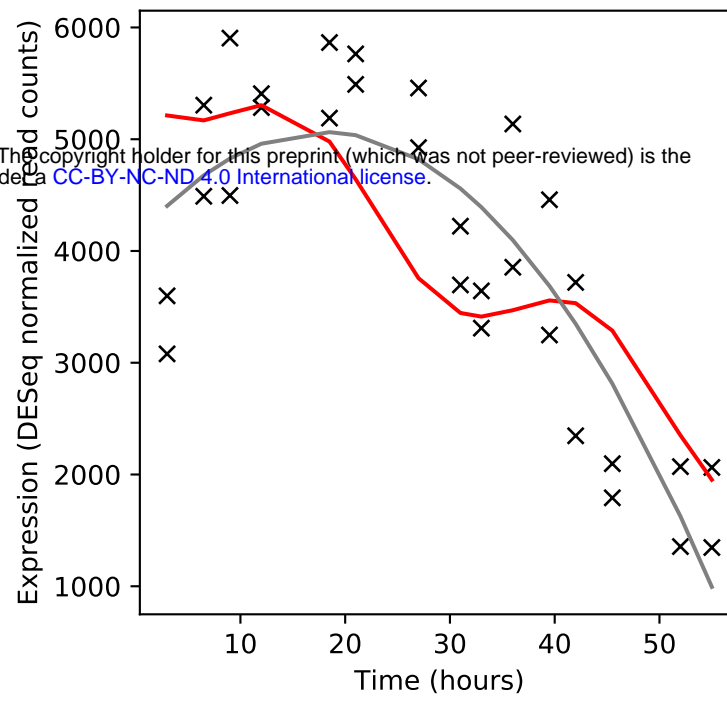
Rv0682/rpsL



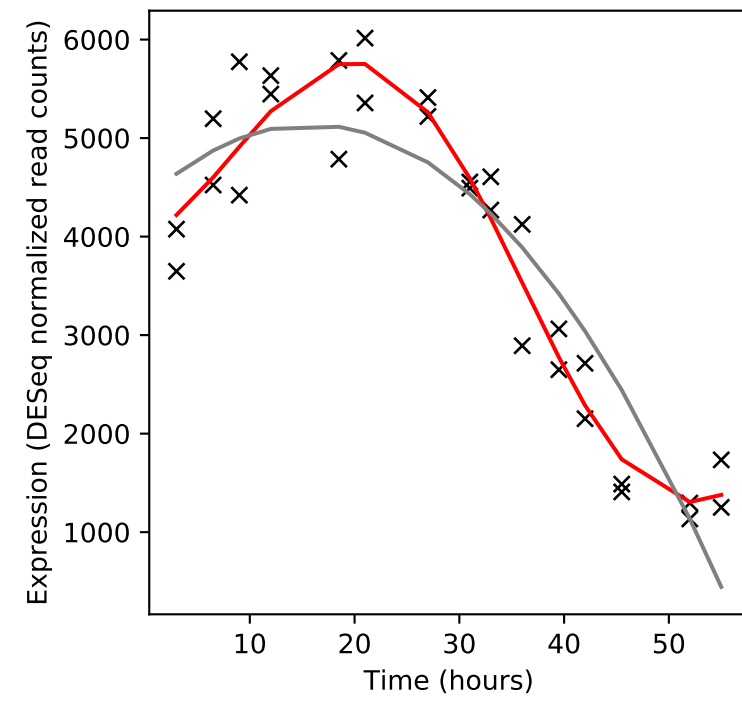
Rv0683/rpsG



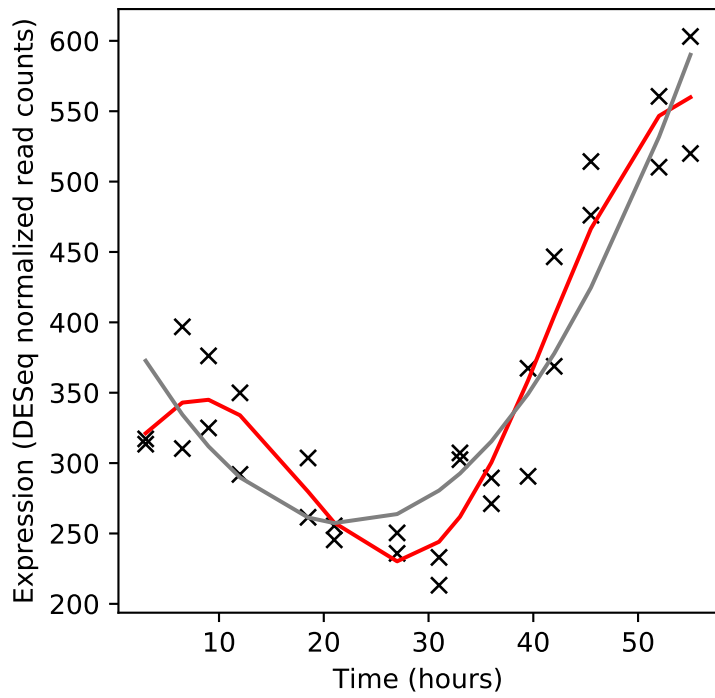
Rv0684/fusA1



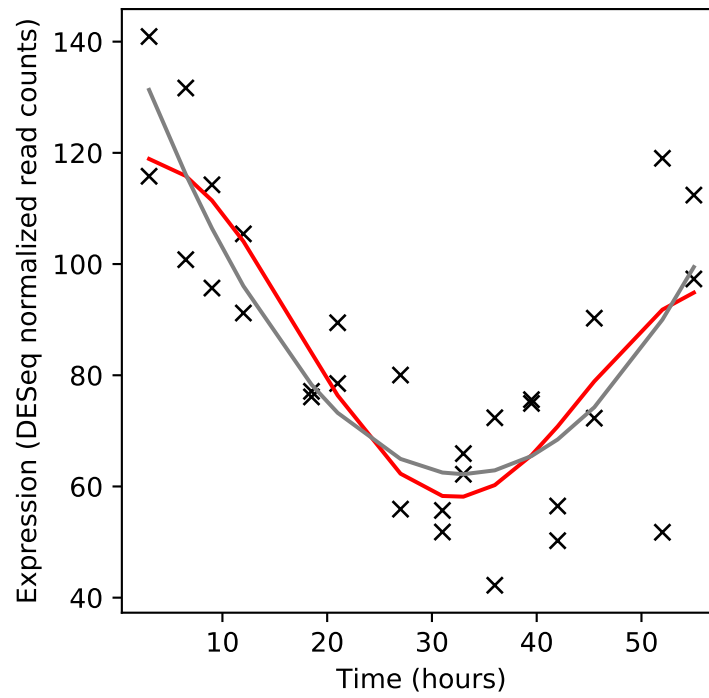
Rv0685/tuf



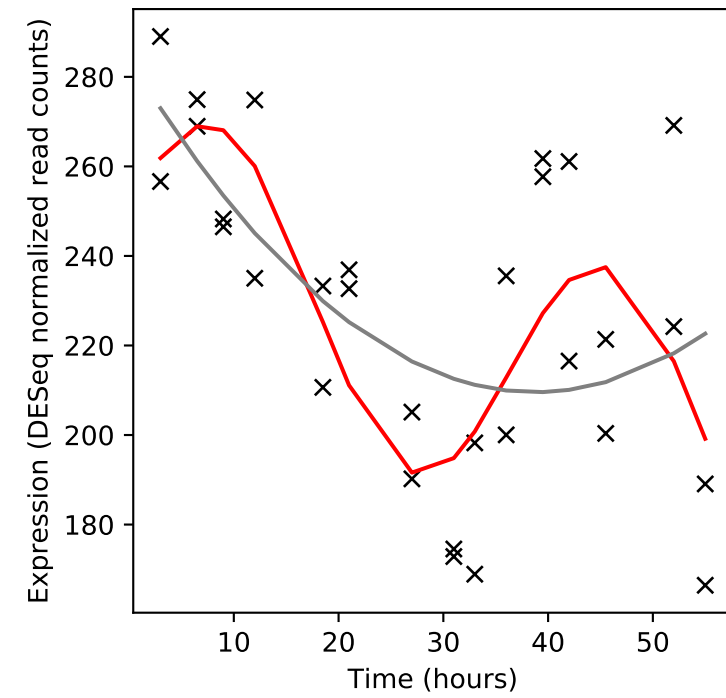
Rv0686/-



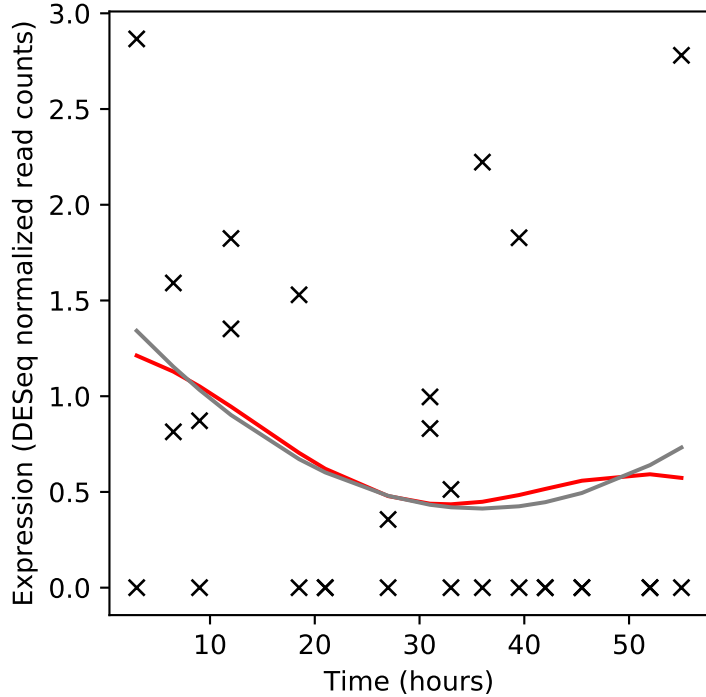
Rv0687/-



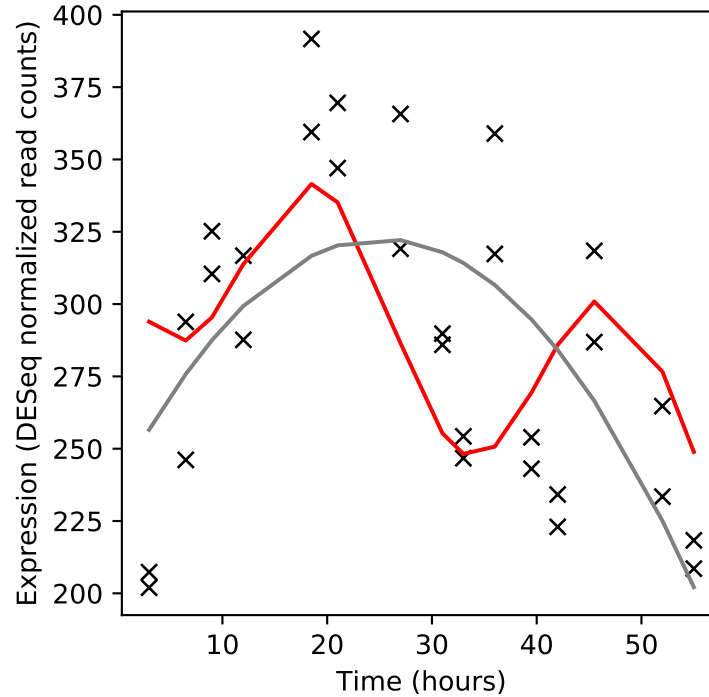
Rv0688/-



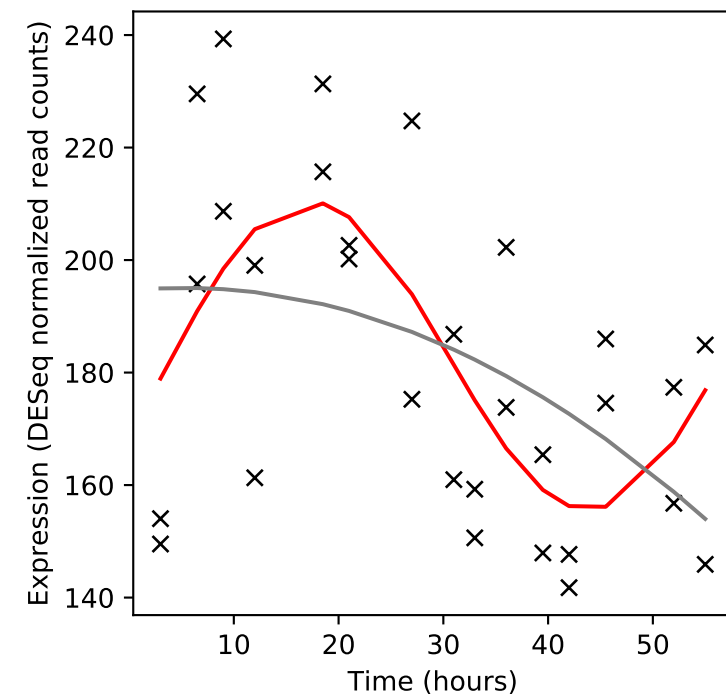
Rv0689c/-



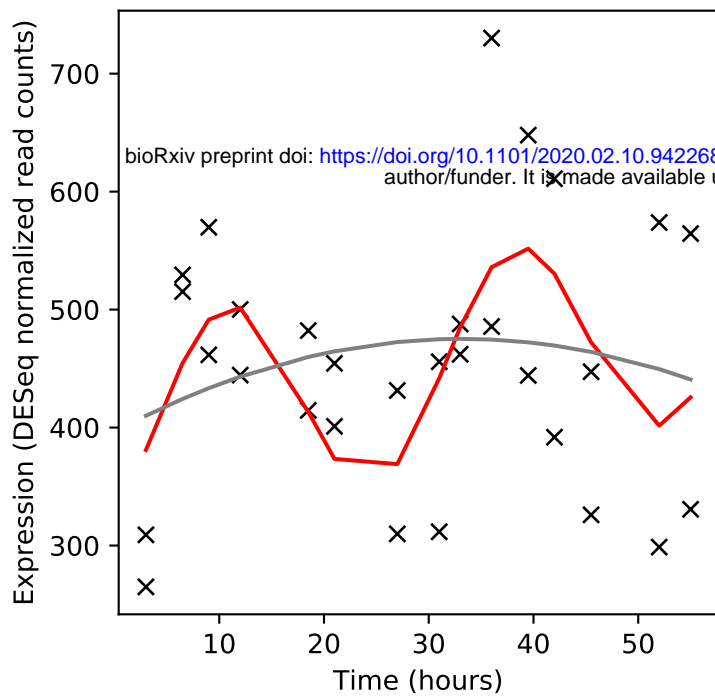
Rv0690c/-



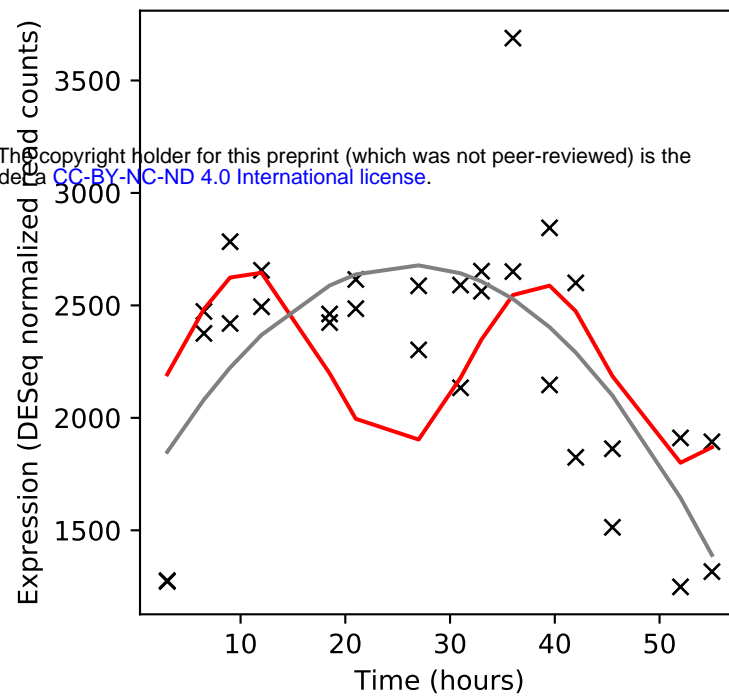
Rv0691c/-



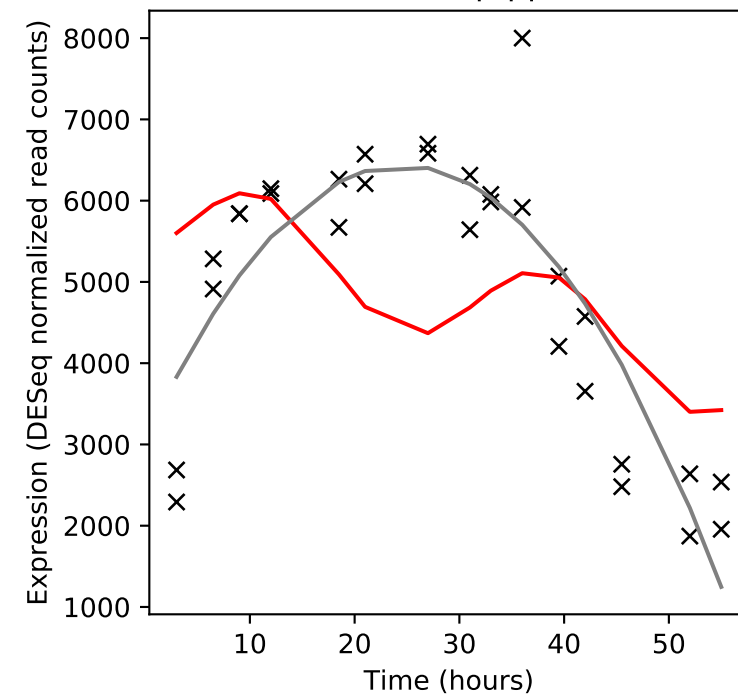
Rv0691A/-



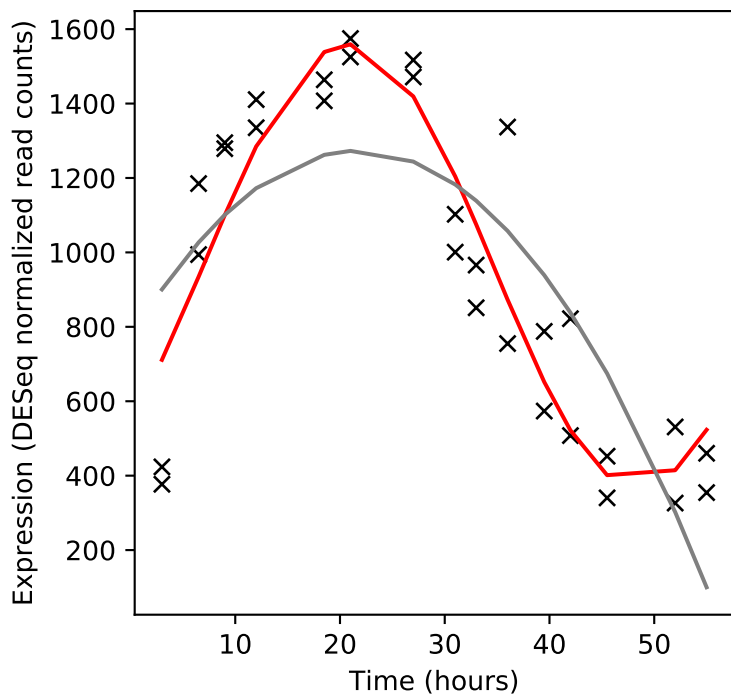
Rv0692/-



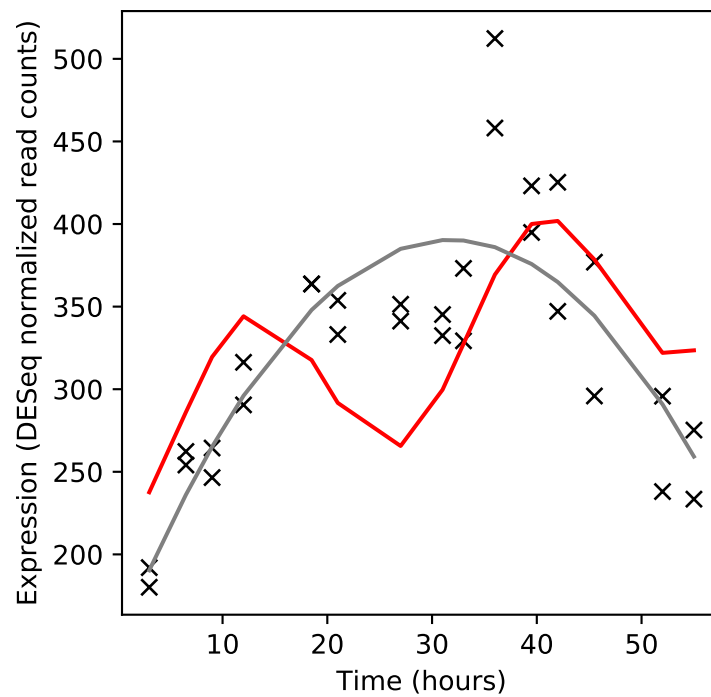
Rv0693/pqqE



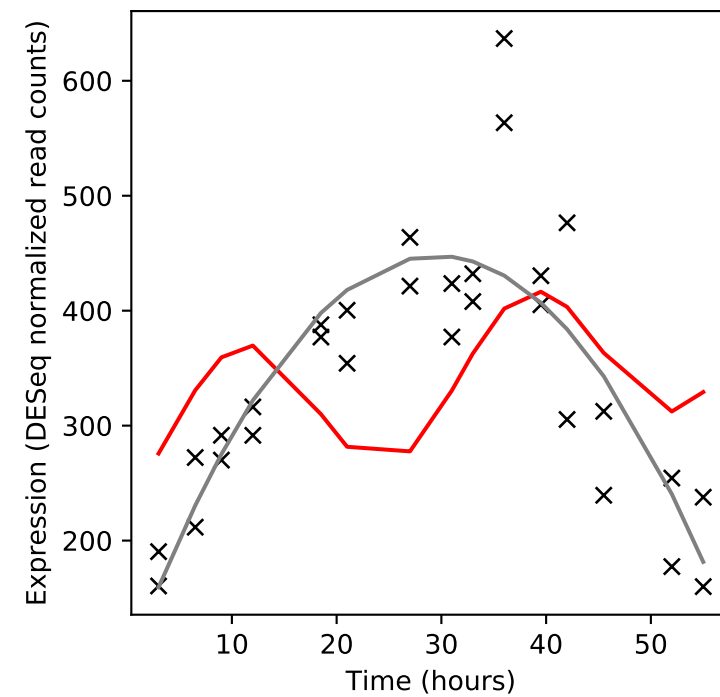
Rv0694/lldD1



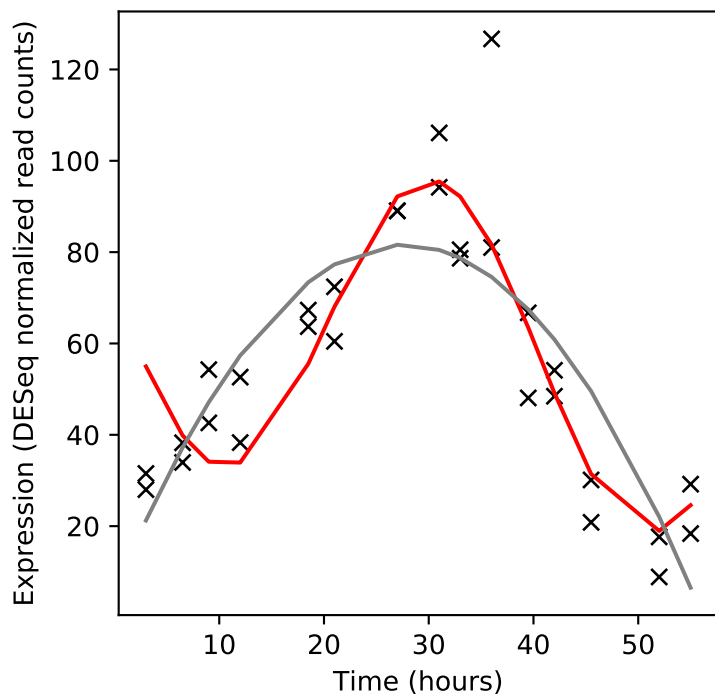
Rv0695/-



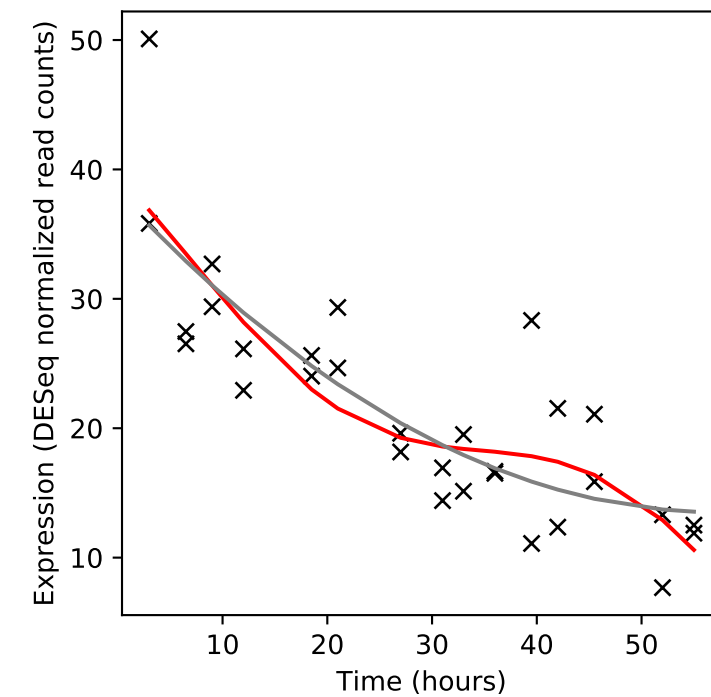
Rv0696/-



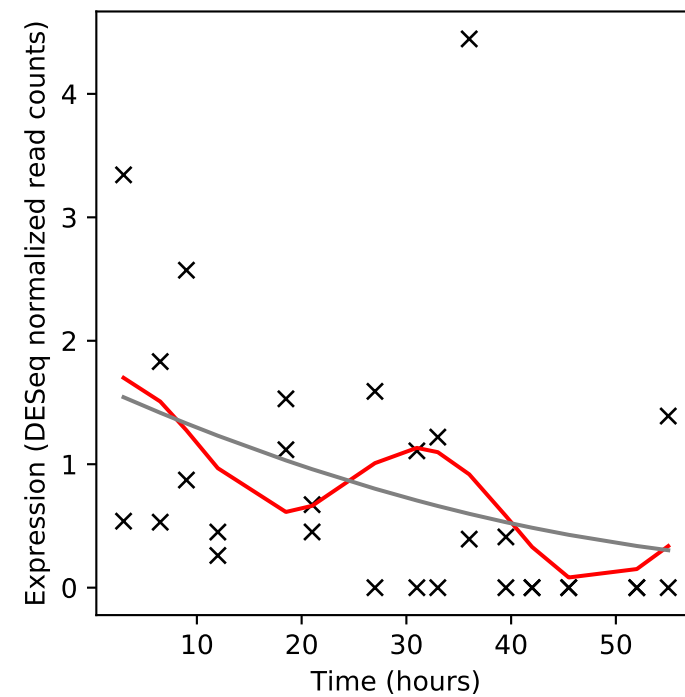
Rv0697/-



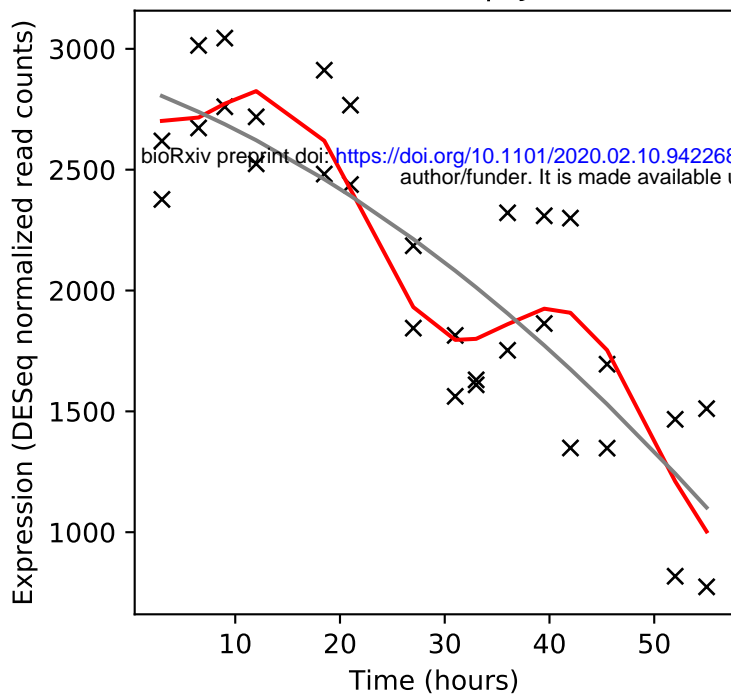
Rv0698/-



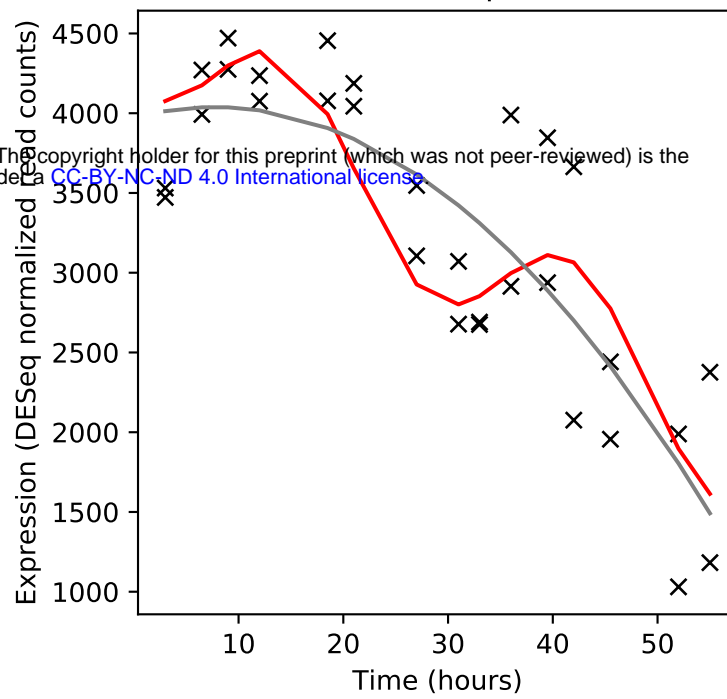
Rv0699/-



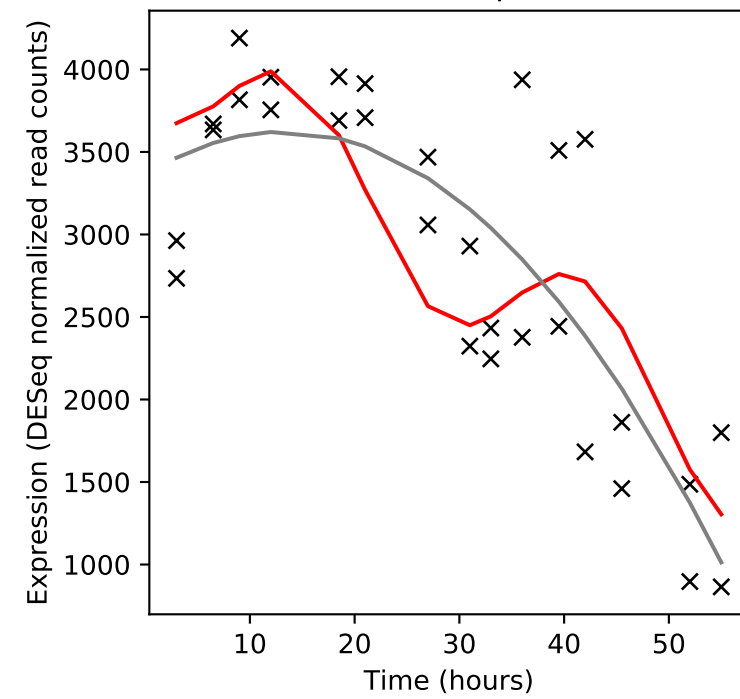
Rv0700/rpsJ



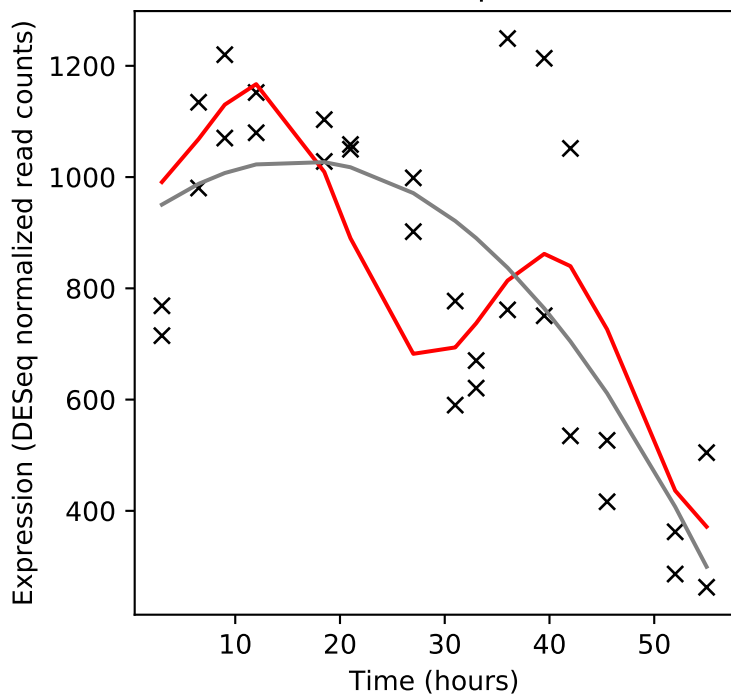
Rv0701/rplC



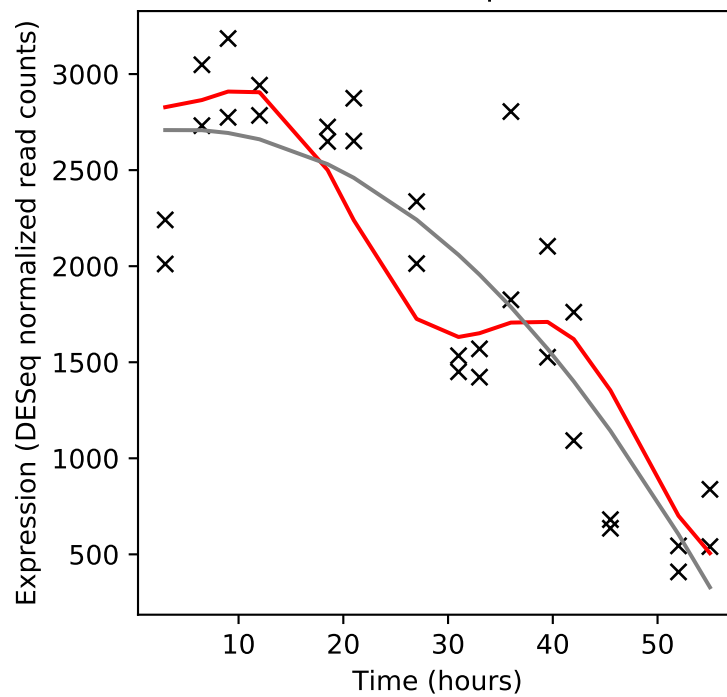
Rv0702/rplD



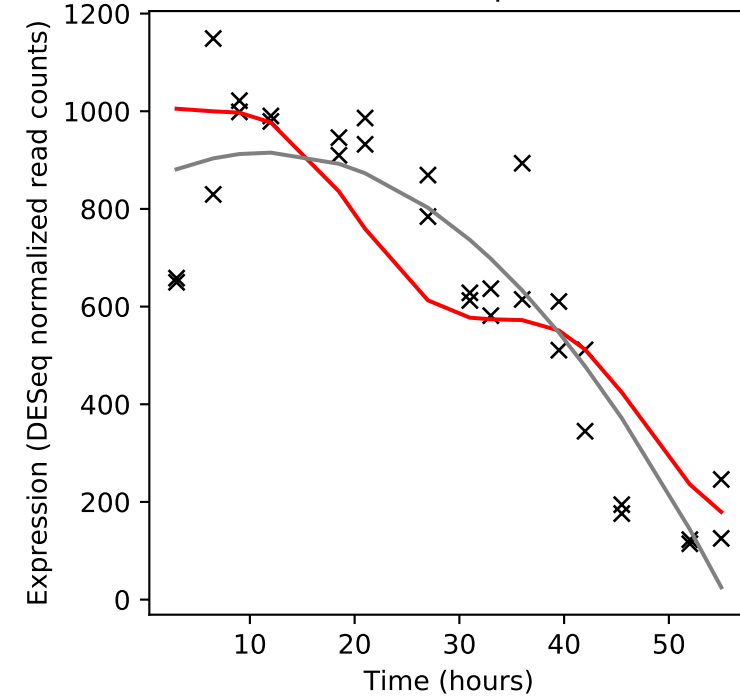
Rv0703/rplW



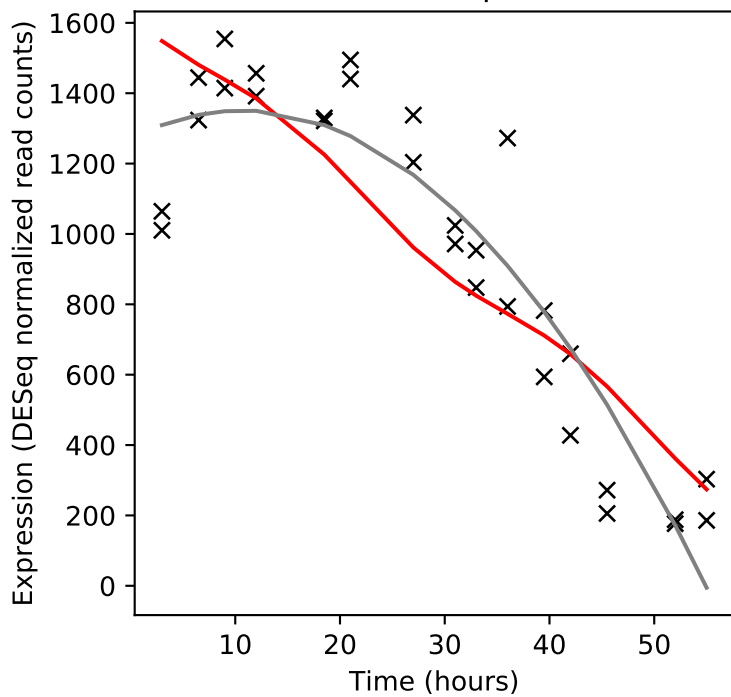
Rv0704/rplB



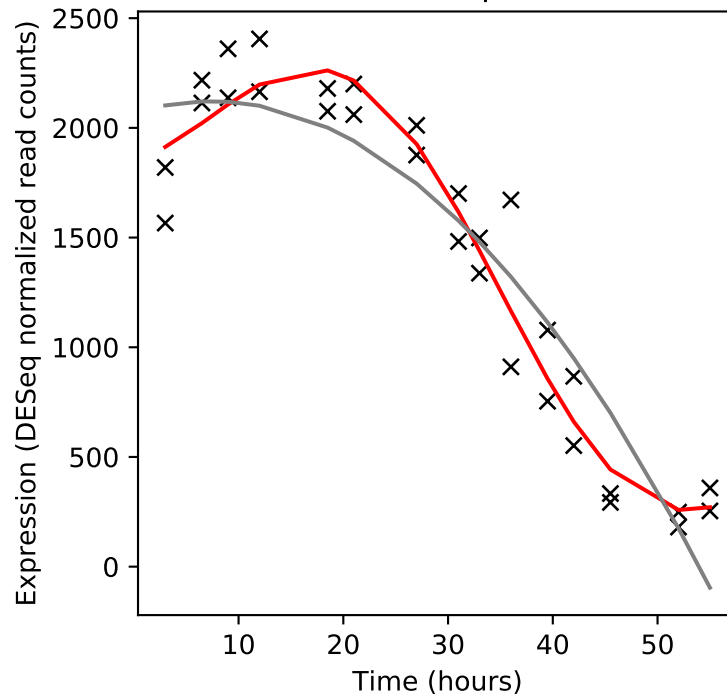
Rv0705/rpsS



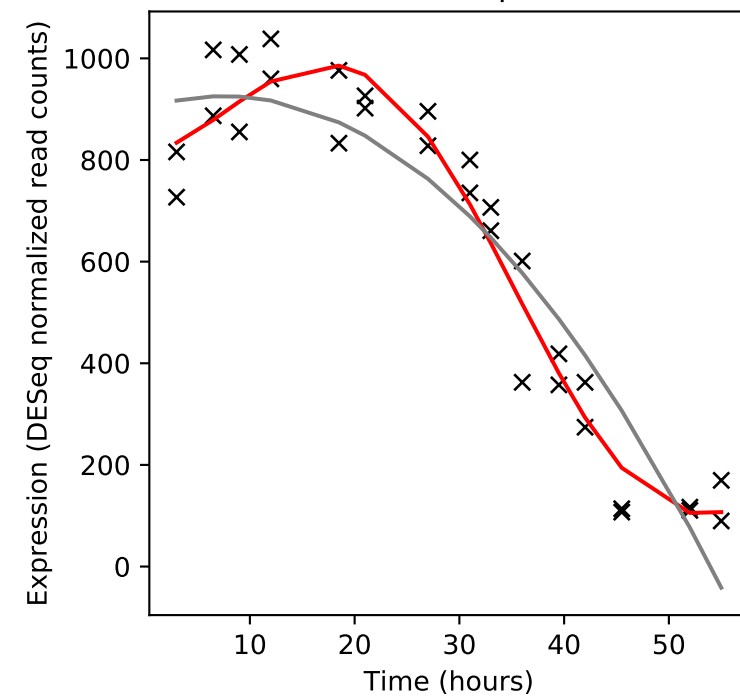
Rv0706/rplV



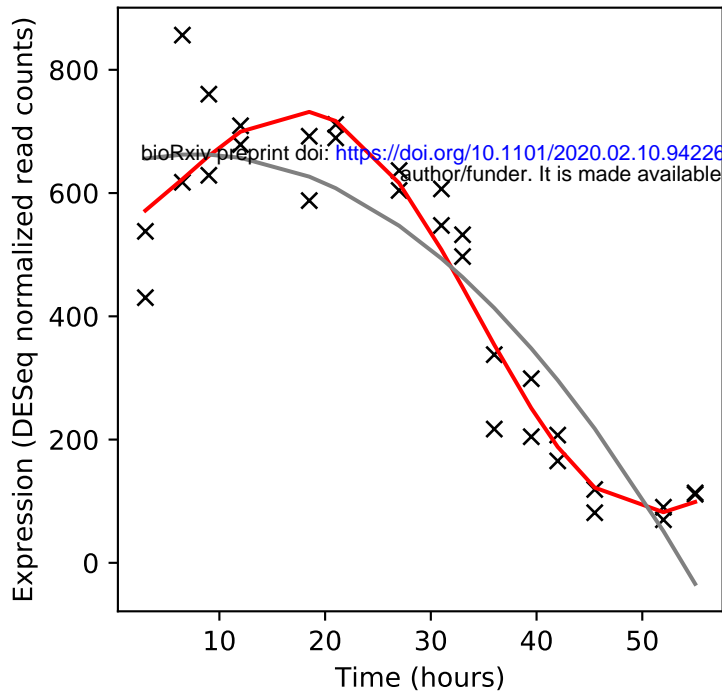
Rv0707/rpsC



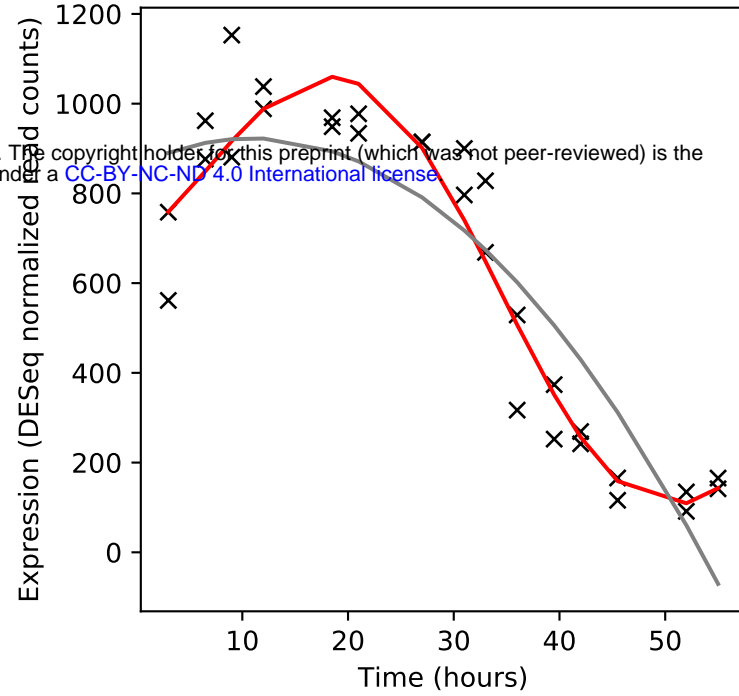
Rv0708/rplP



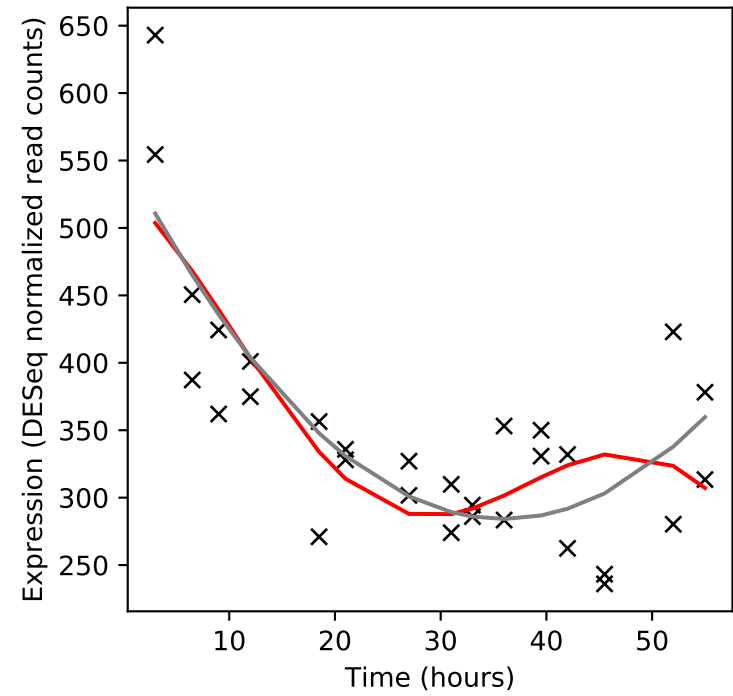
Rv0709/rpmC



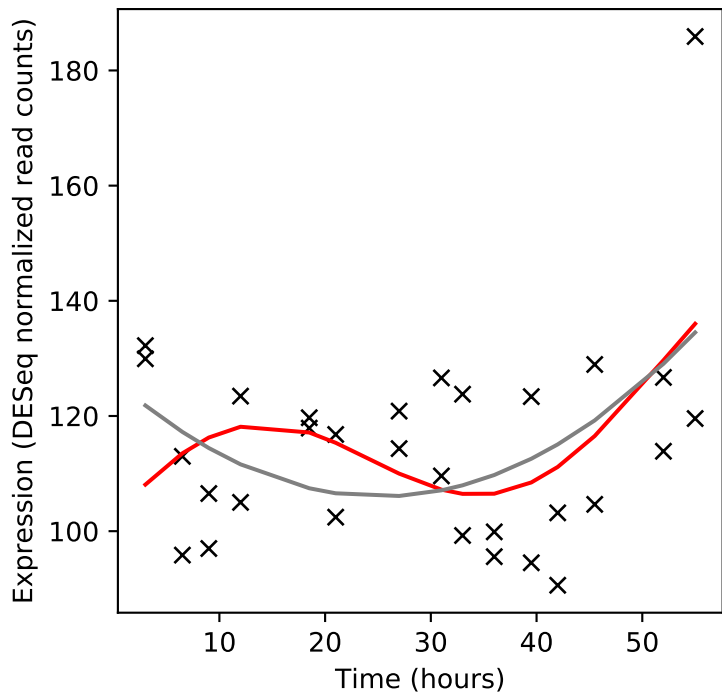
Rv0710/rpsQ



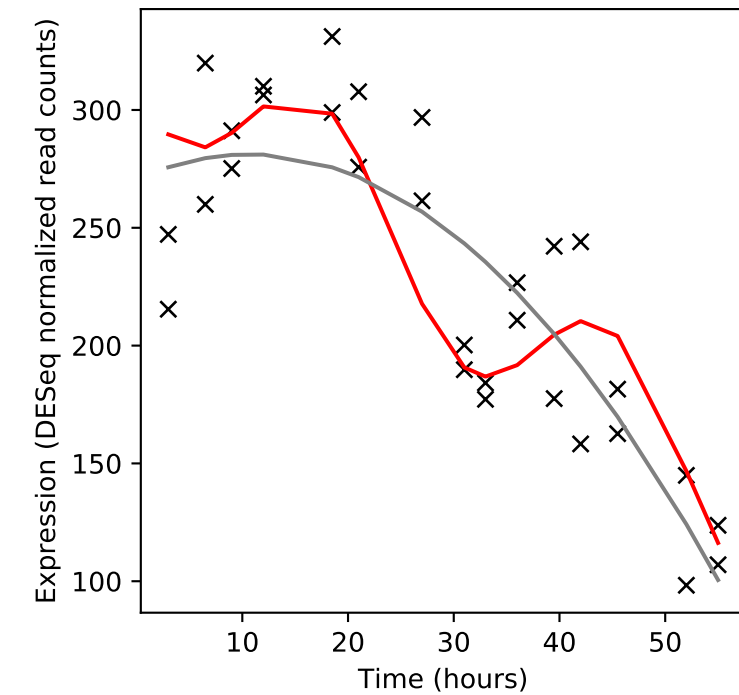
Rv0711/atsA



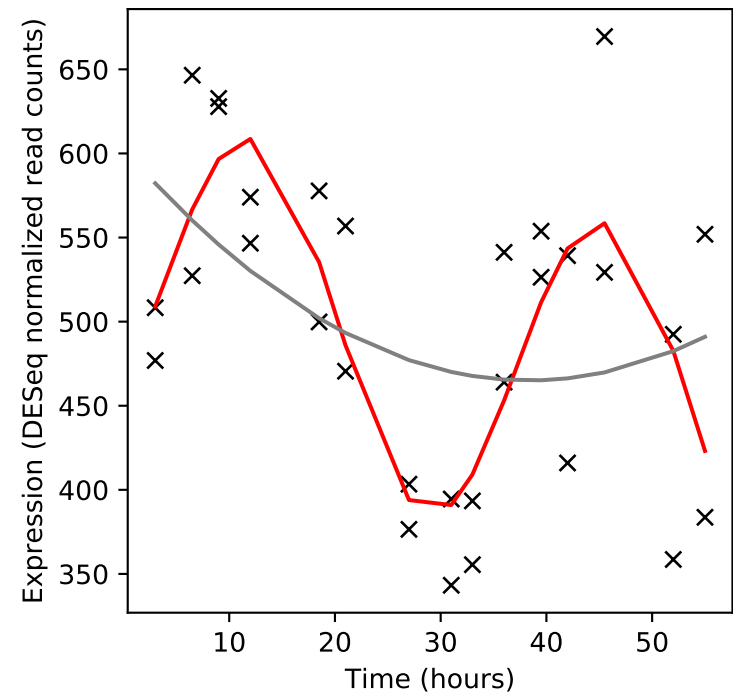
Rv0712/-



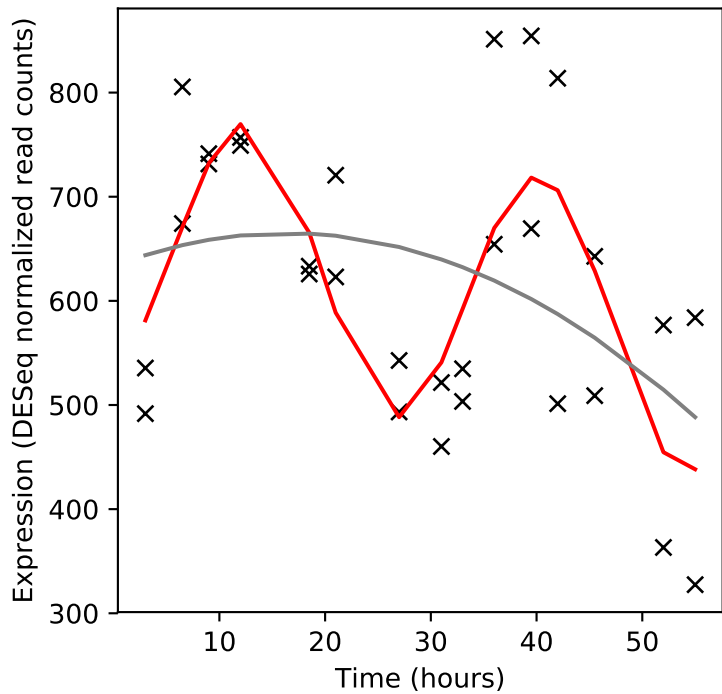
Rv0713/-



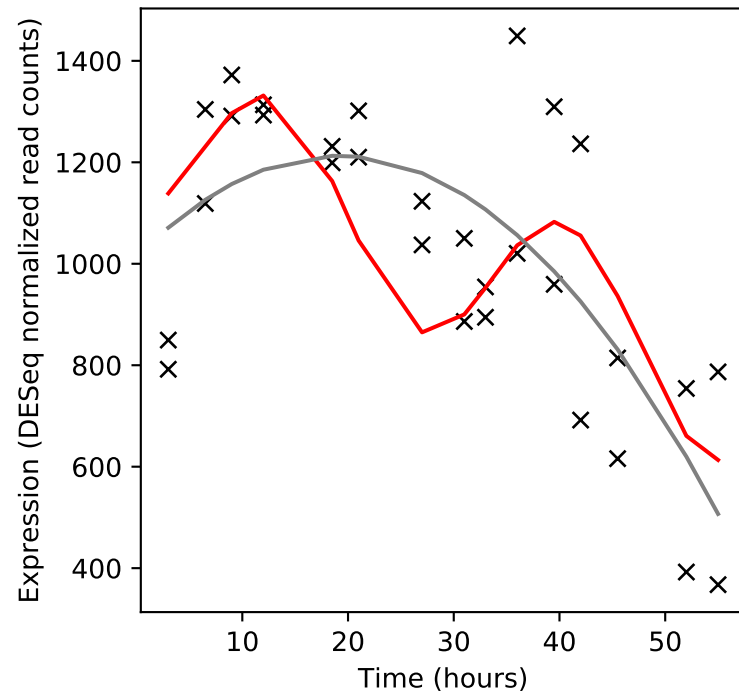
Rv0714/rplN



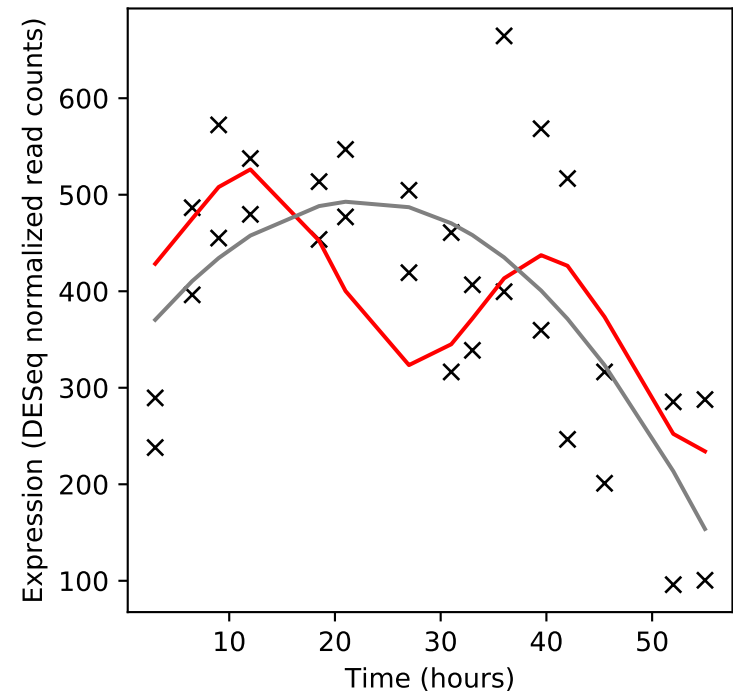
Rv0715/rplX



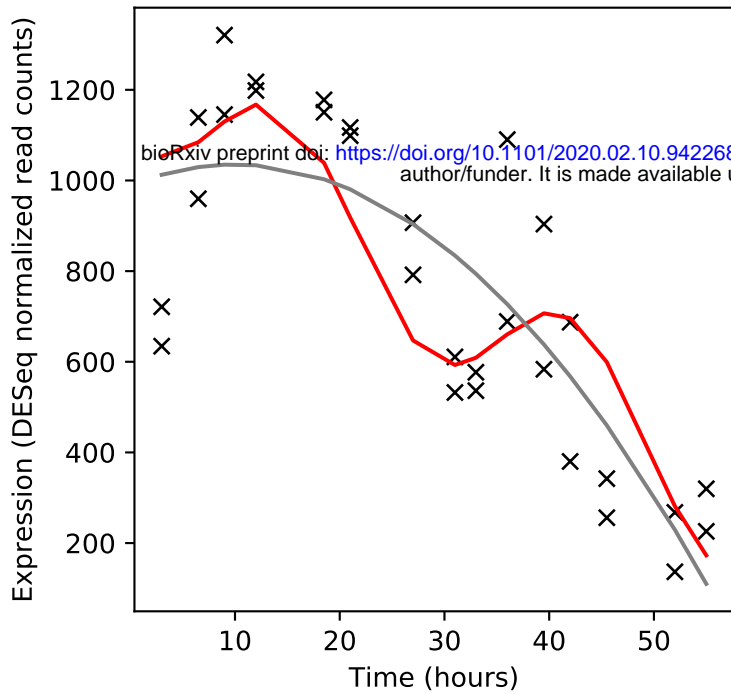
Rv0716/rplE



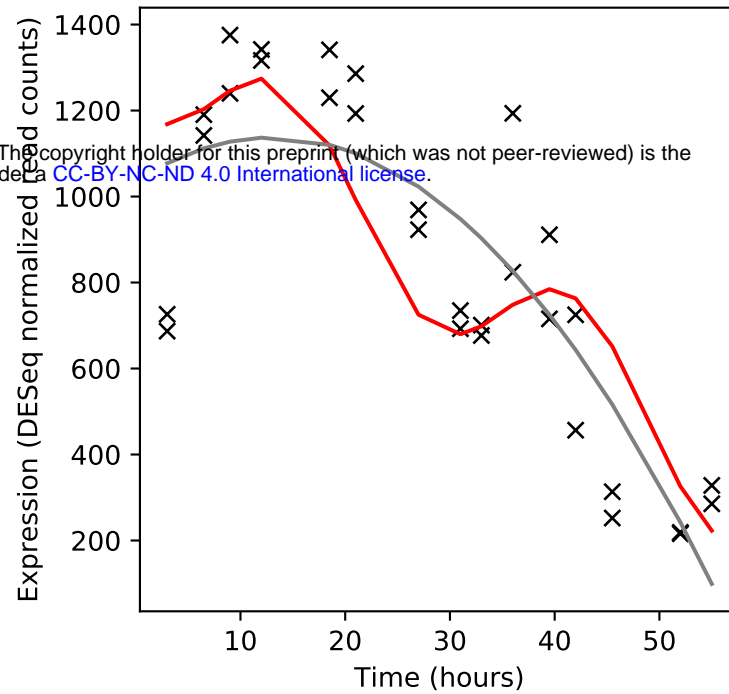
Rv0717/rpsN1



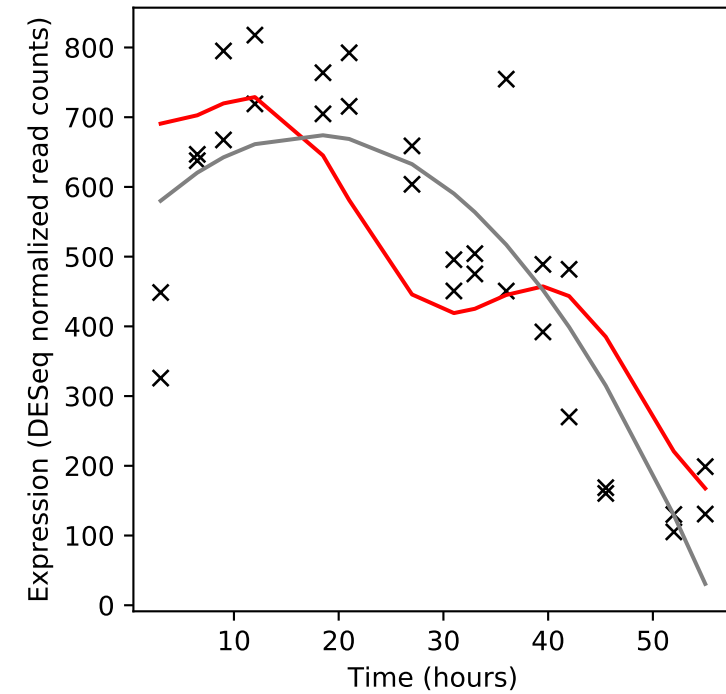
Rv0718/rpsH



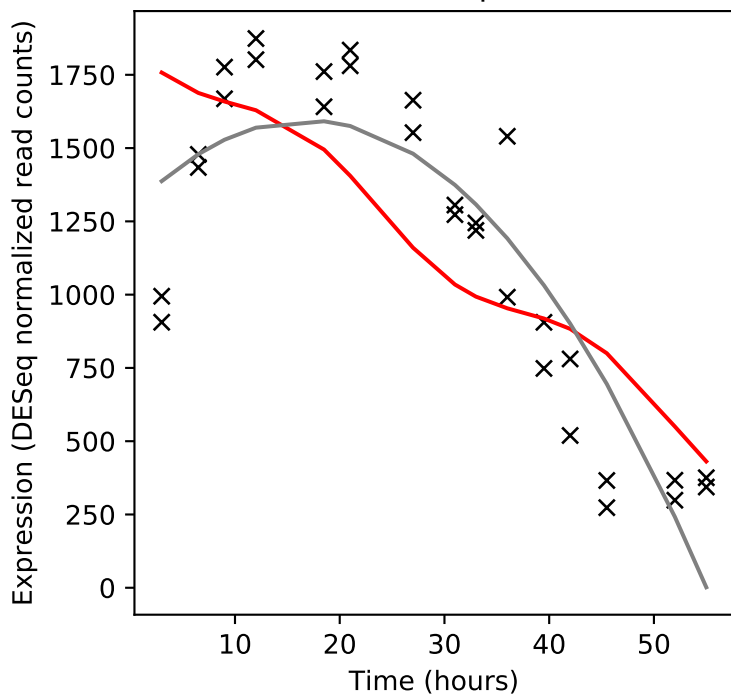
Rv0719/rplF



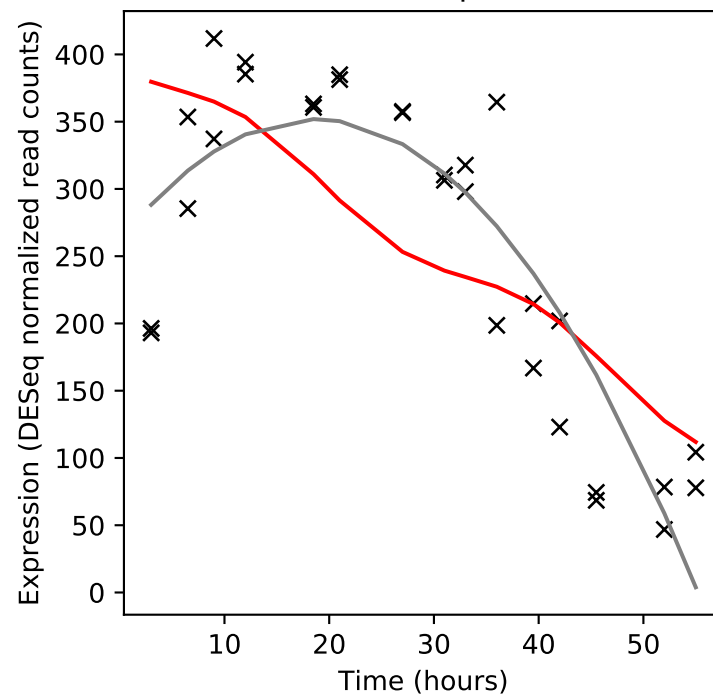
Rv0720/rplR



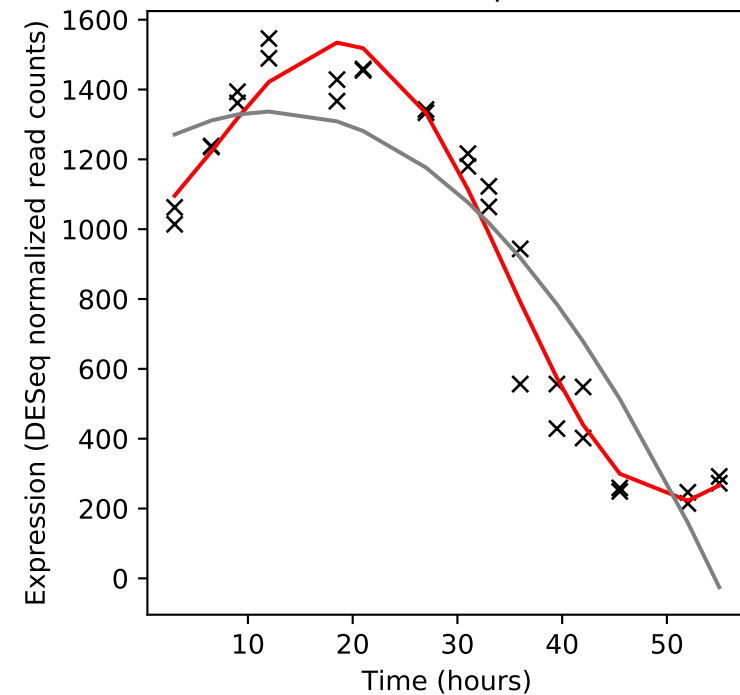
Rv0721/rpsE



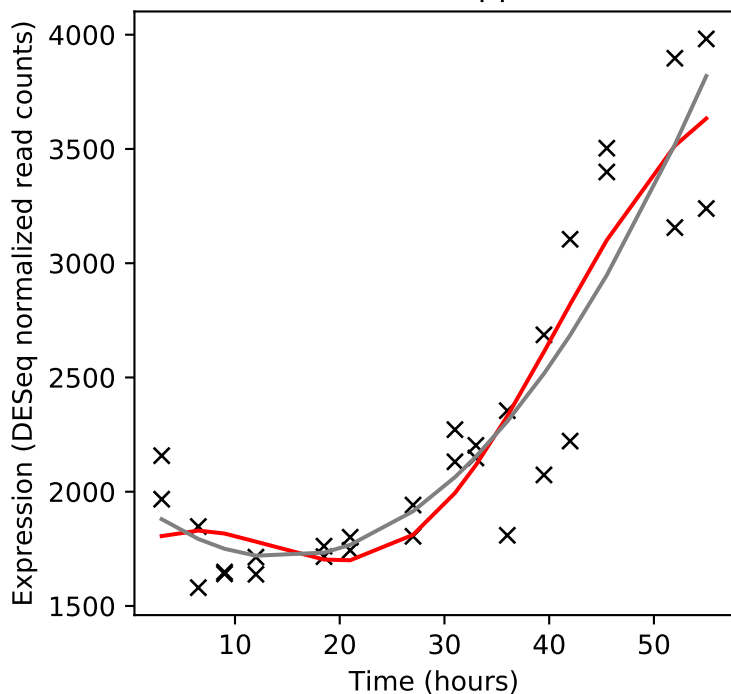
Rv0722/rpmD



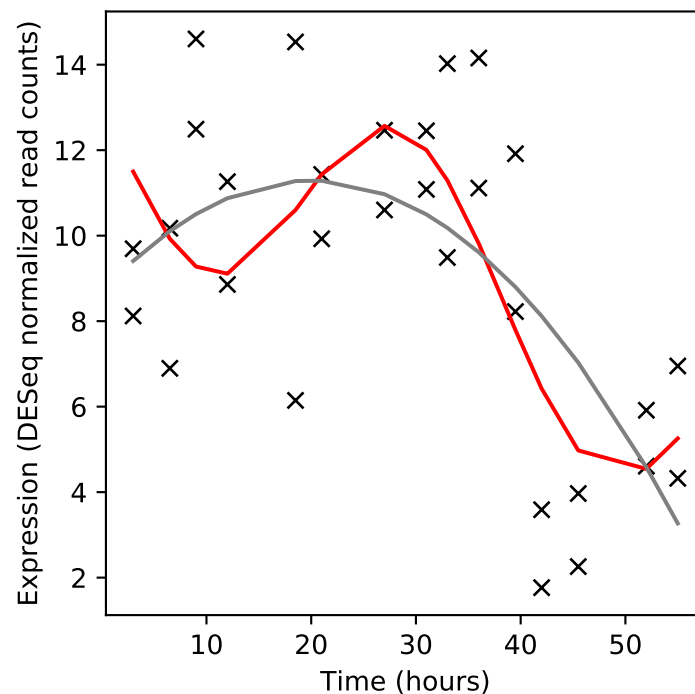
Rv0723/rplO



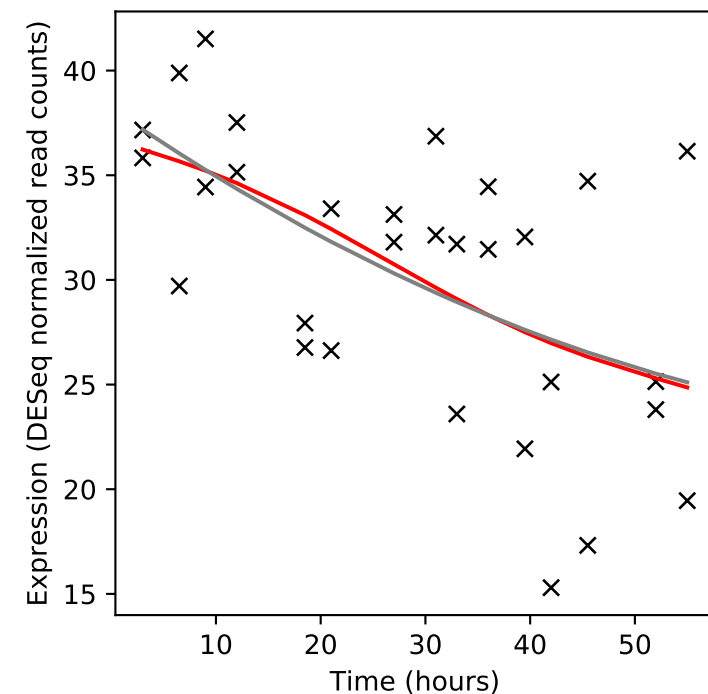
Rv0724/sppA



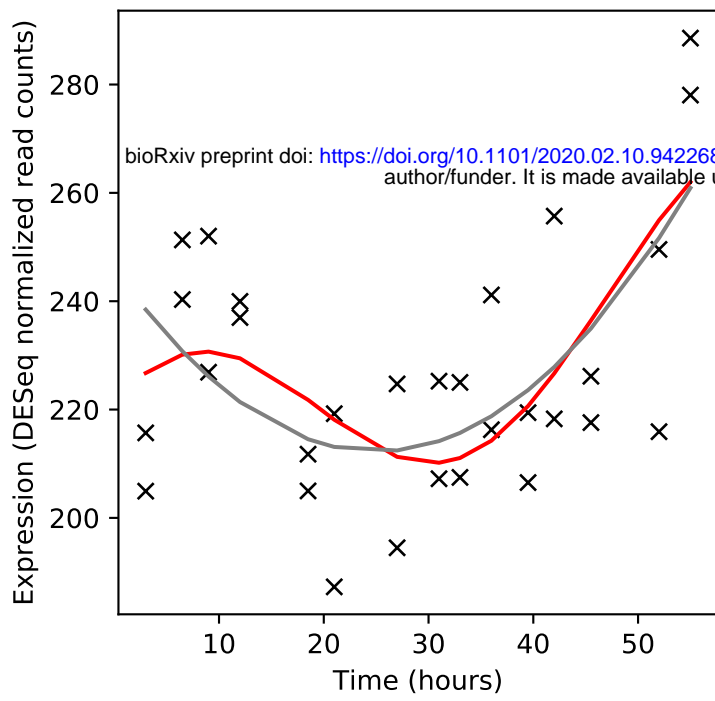
Rv0724A/-



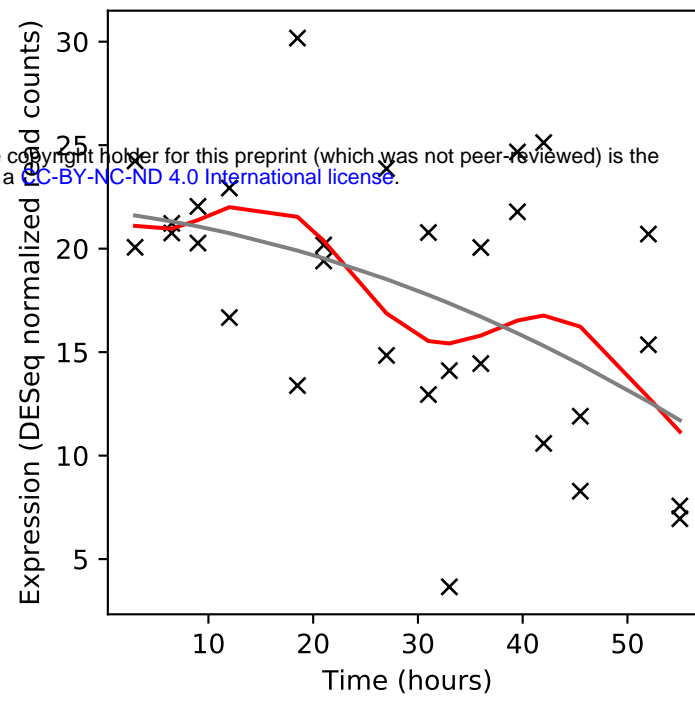
Rv0725c/-



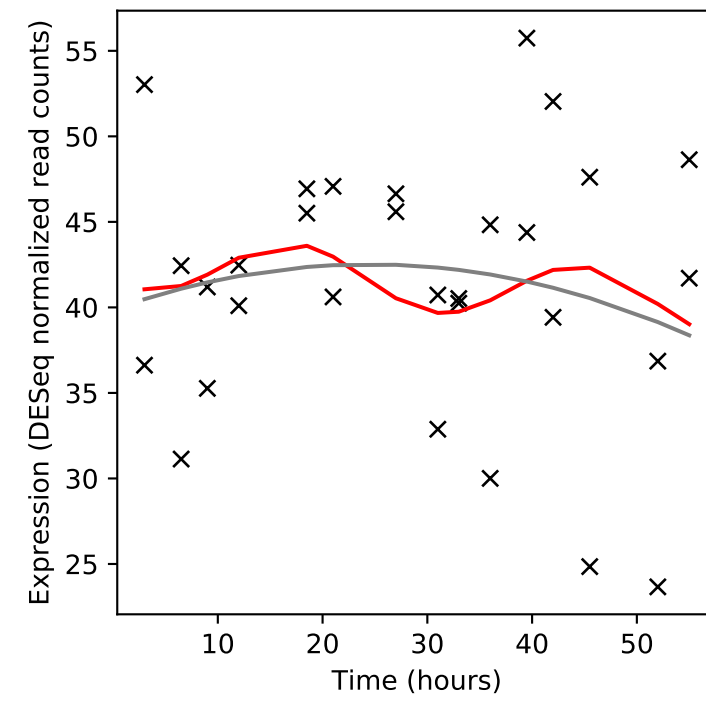
Rv0726c/-



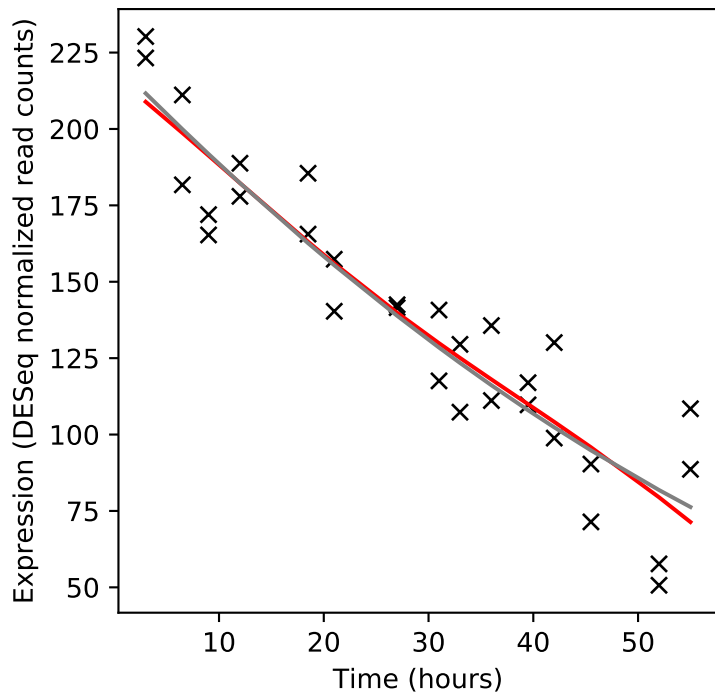
Rv0727c/fucA



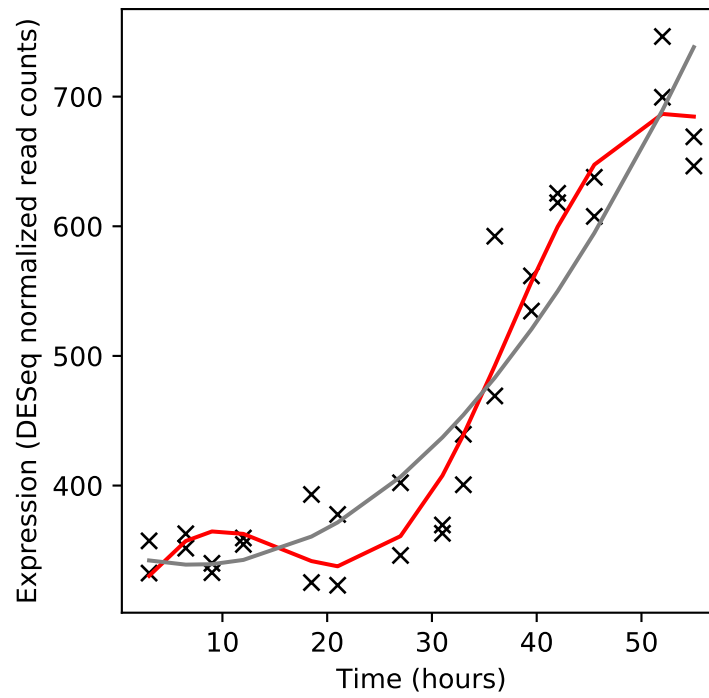
Rv0728c/serA2



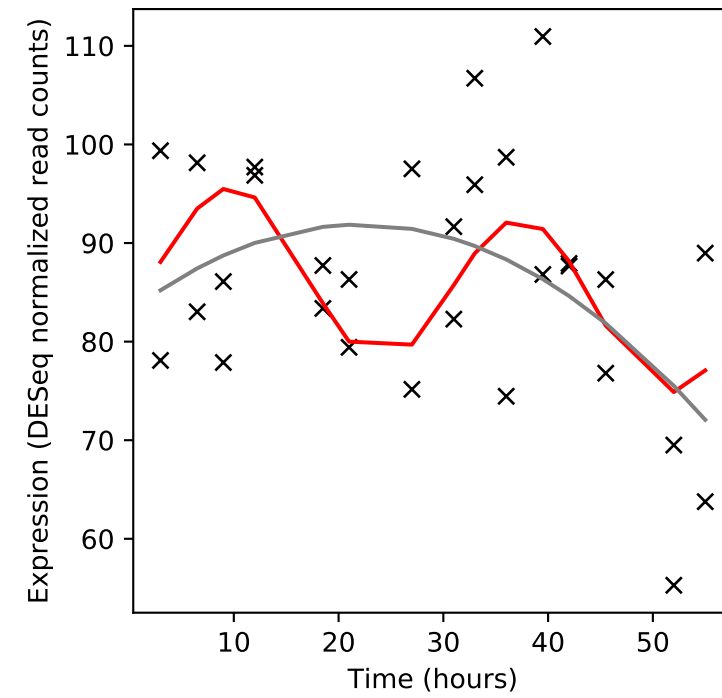
Rv0729/xylB



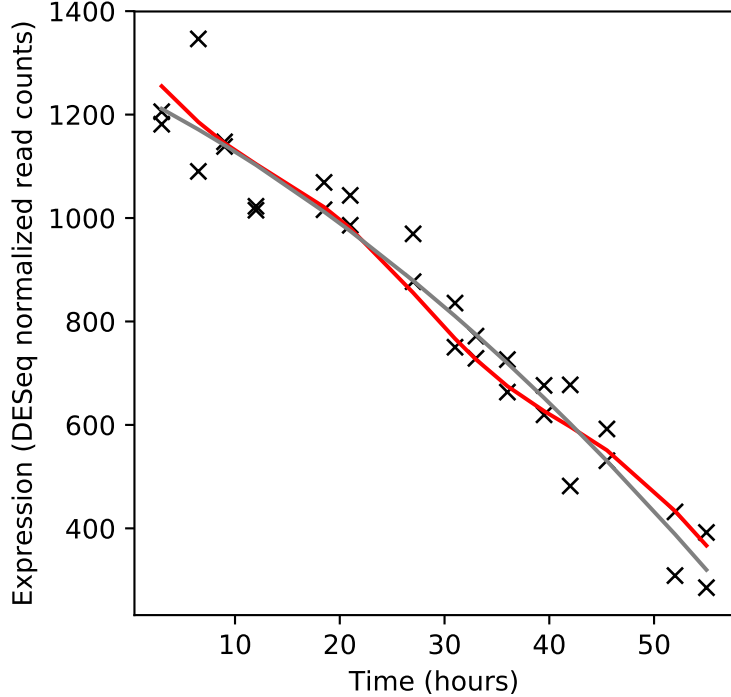
Rv0730/-



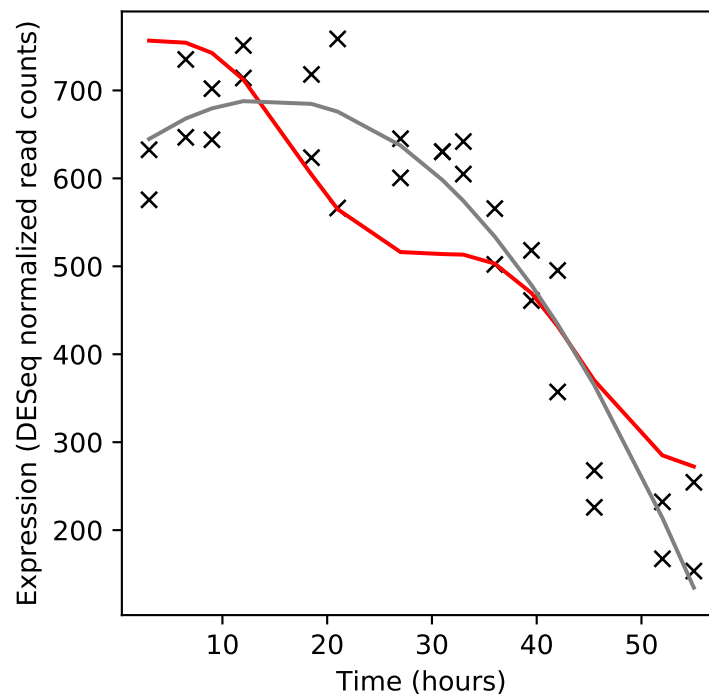
Rv0731c/-



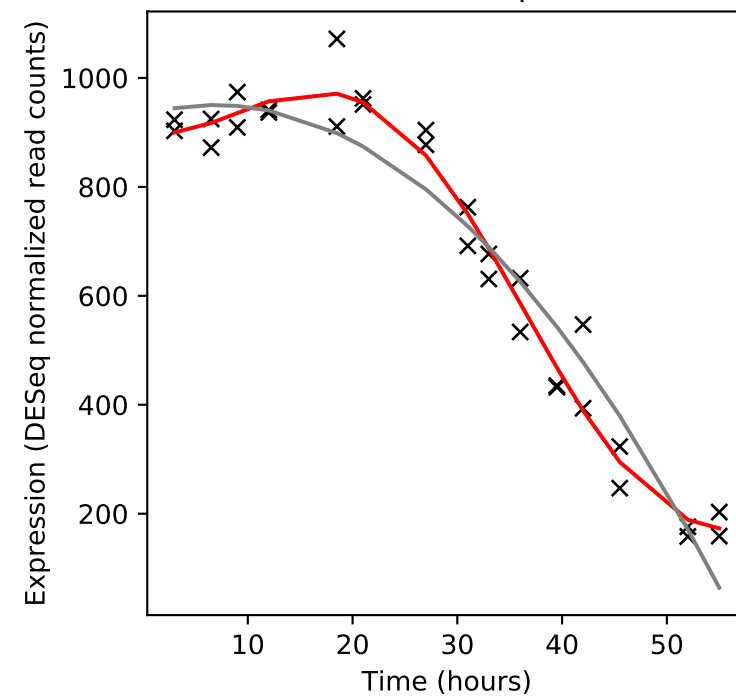
Rv0732/secY



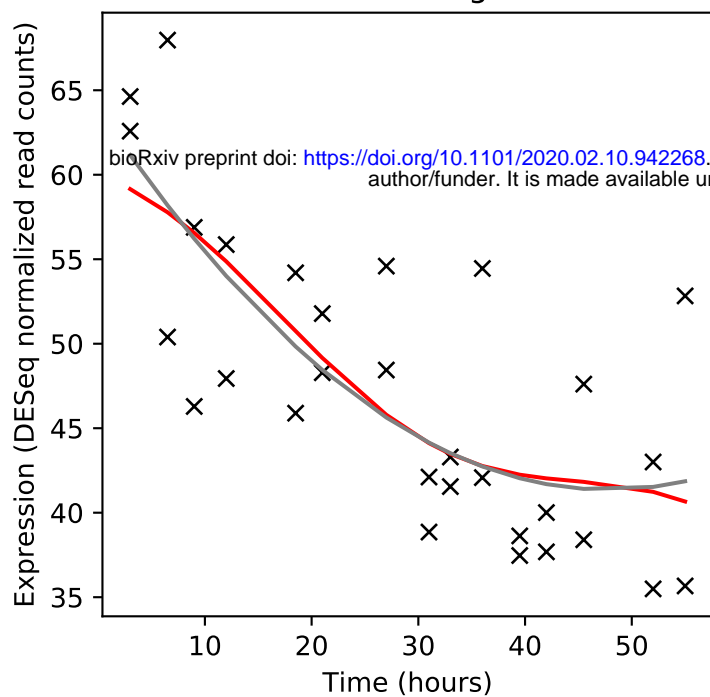
Rv0733/adk



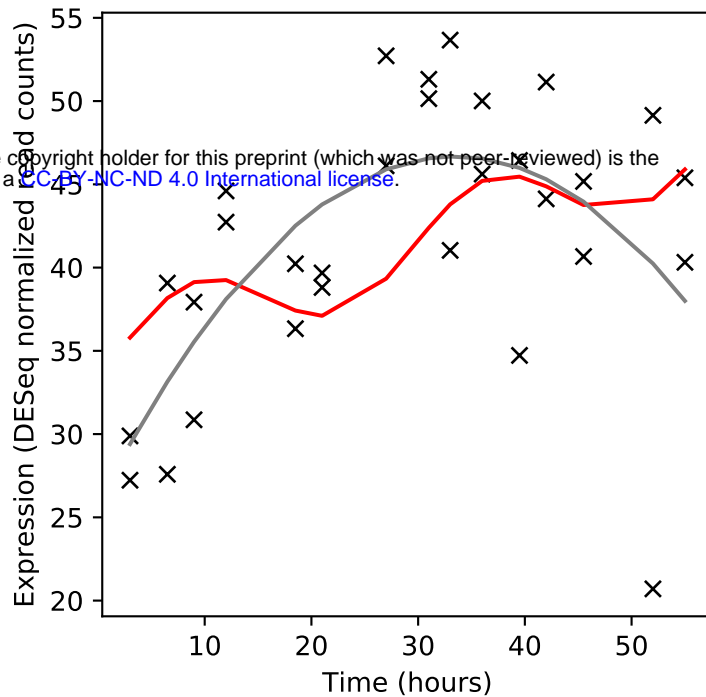
Rv0734/mapA



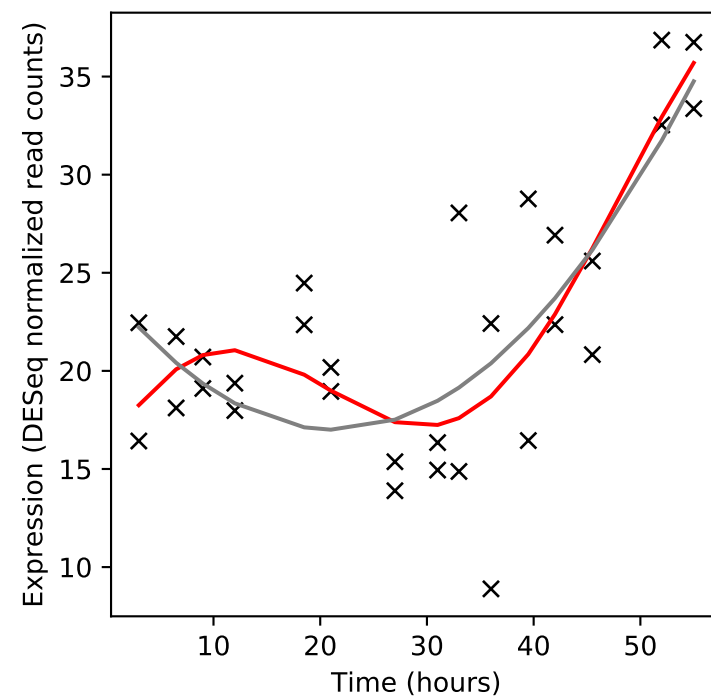
Rv0735/sigL



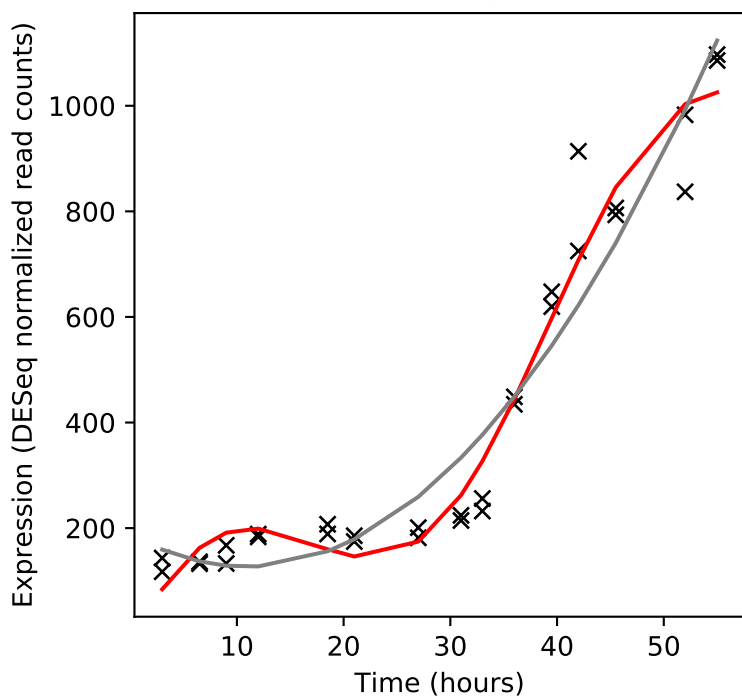
Rv0736/rsIA



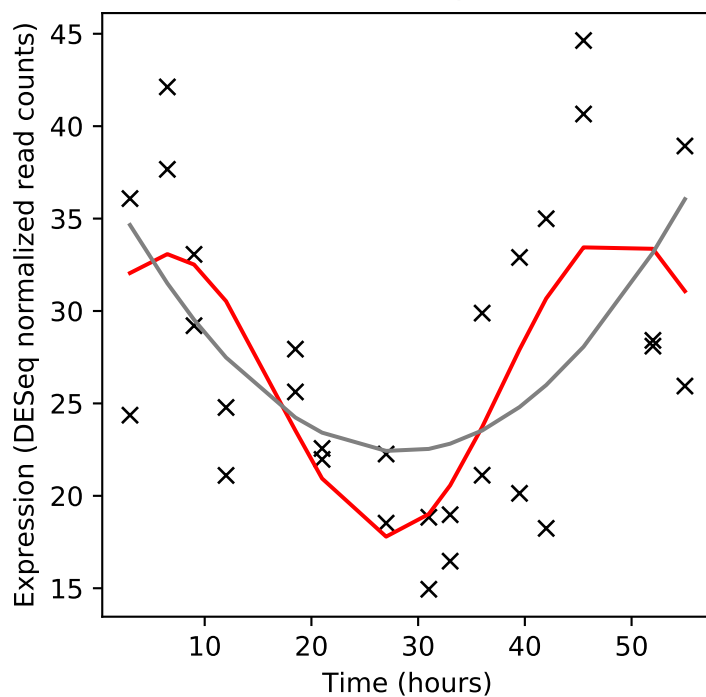
Rv0737/-



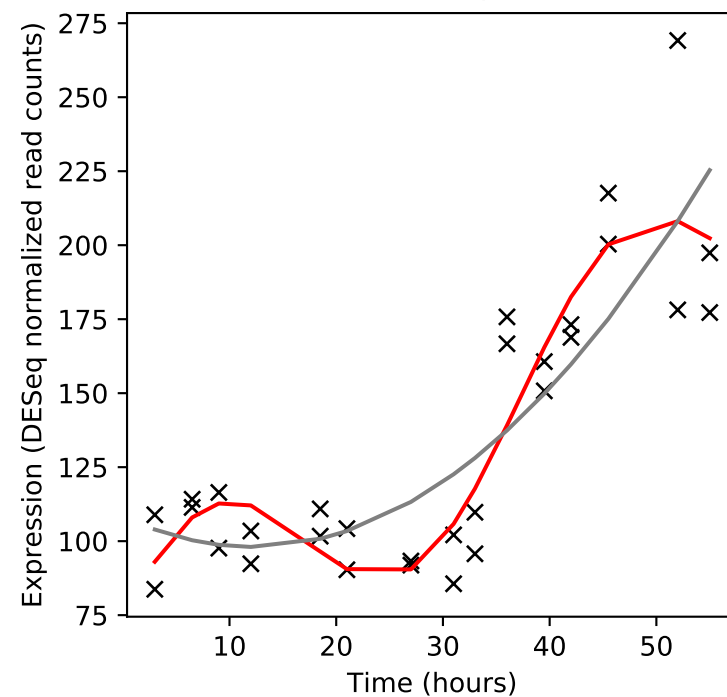
Rv0738/-



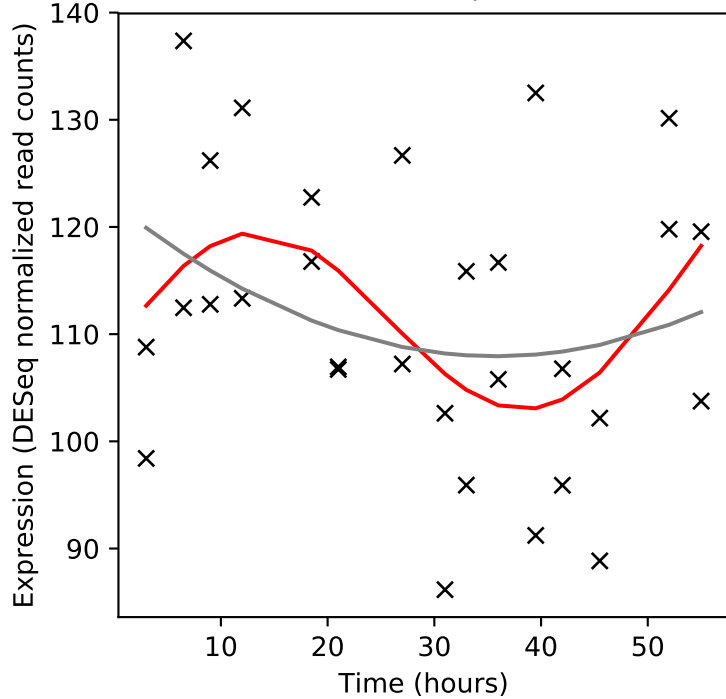
Rv0739/-



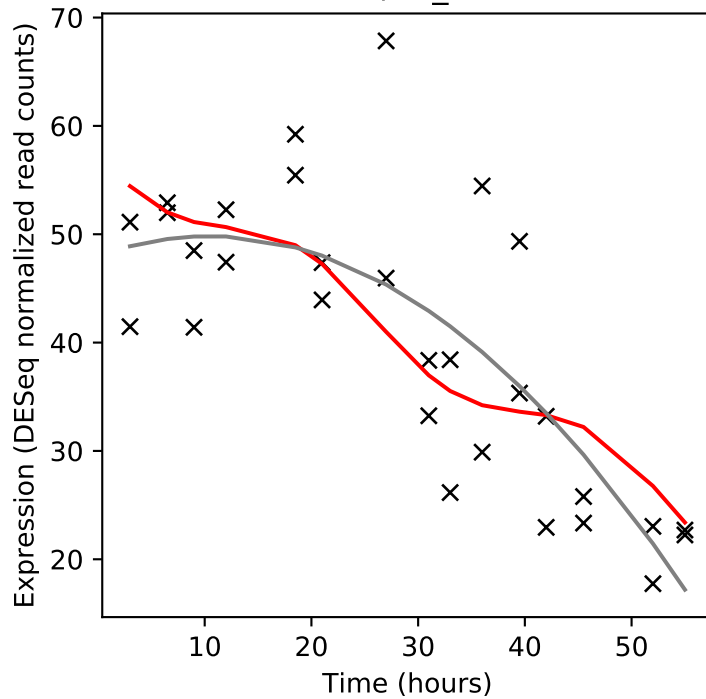
Rv0740/-



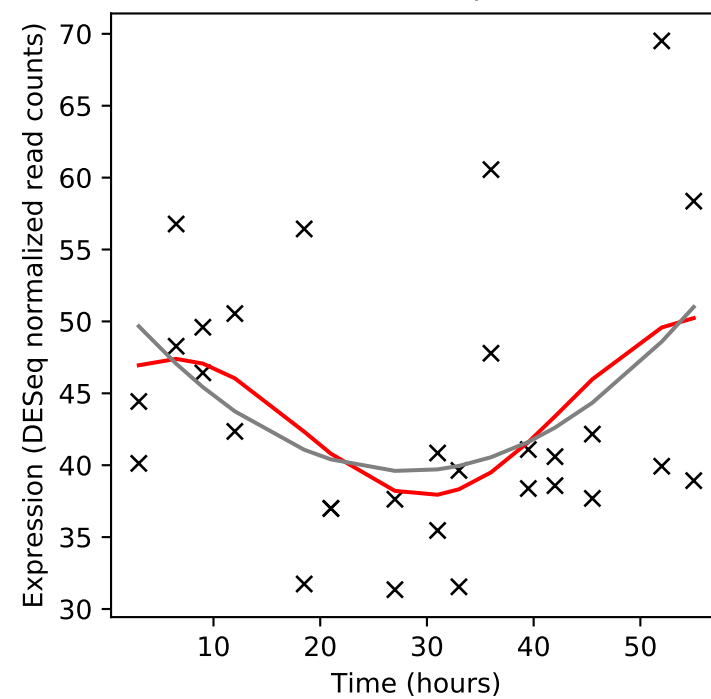
Rv0741/-



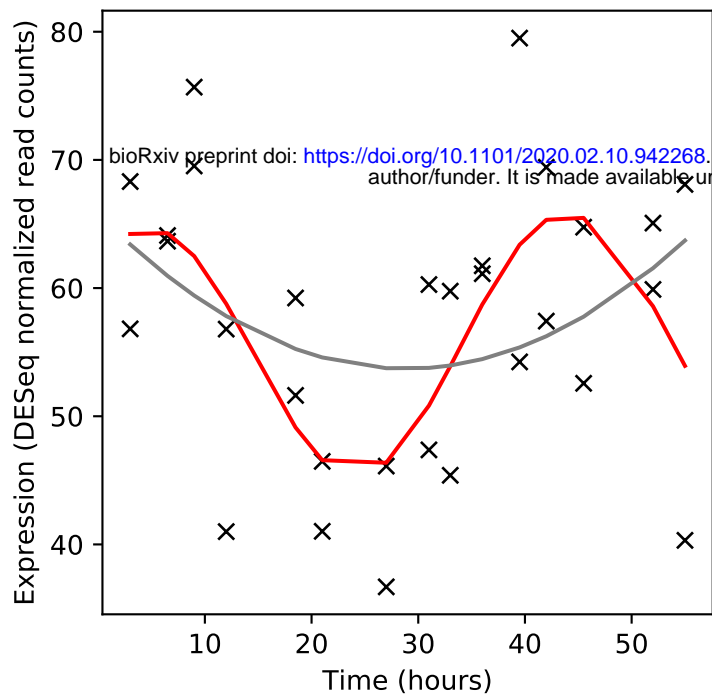
Rv0742/PE_PGRS8



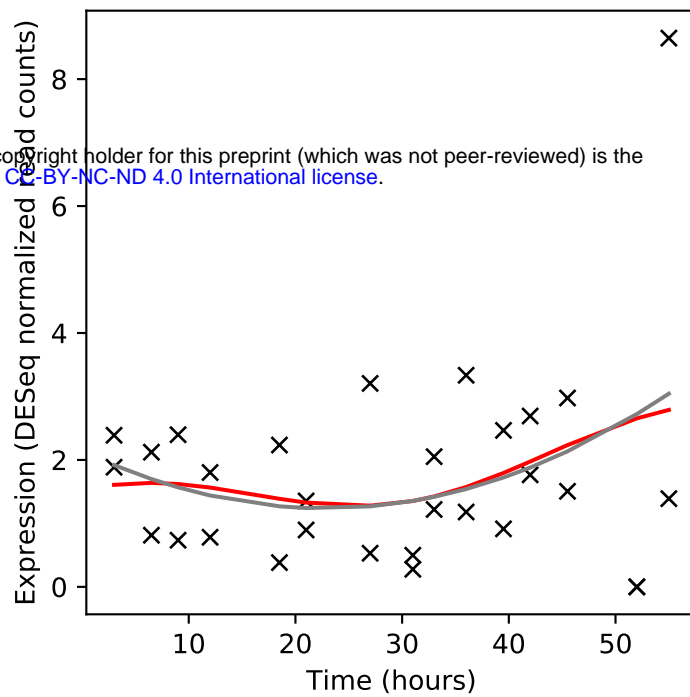
Rv0743c/-



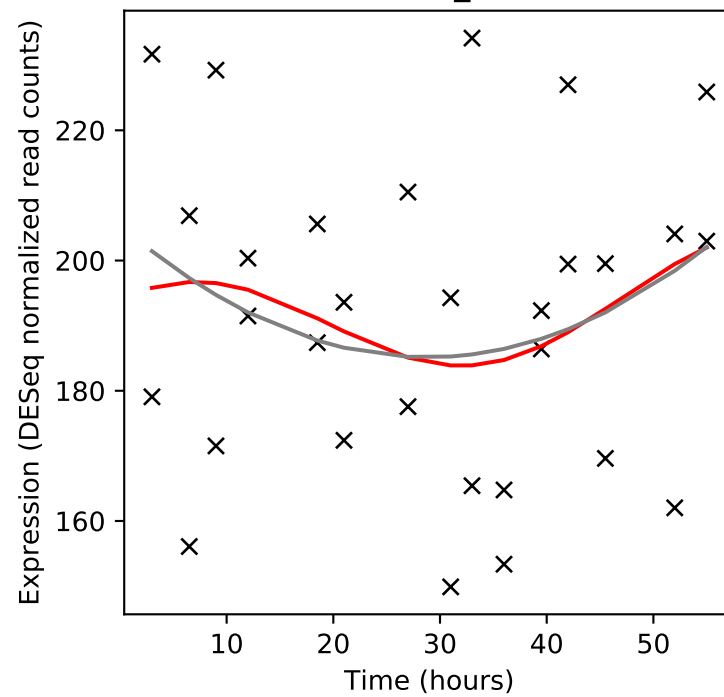
Rv0744c/-



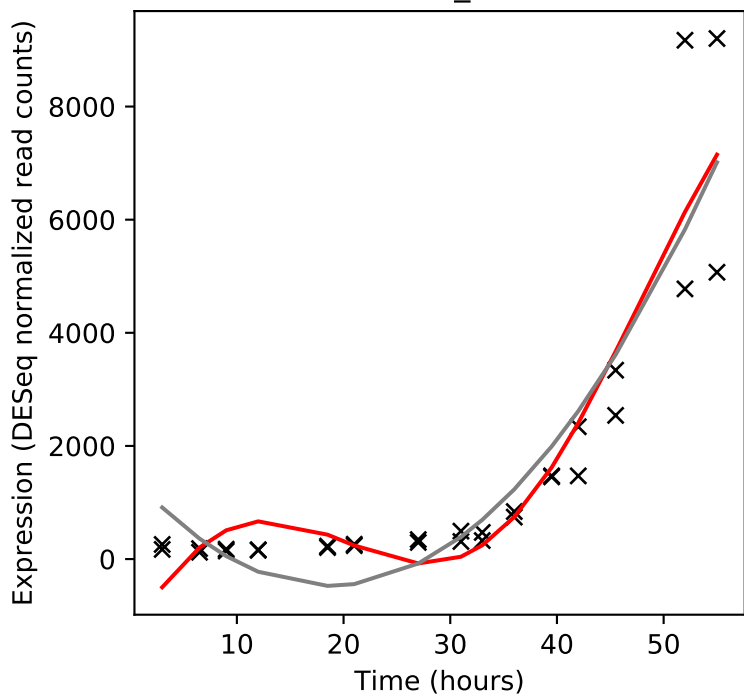
Rv0745/-



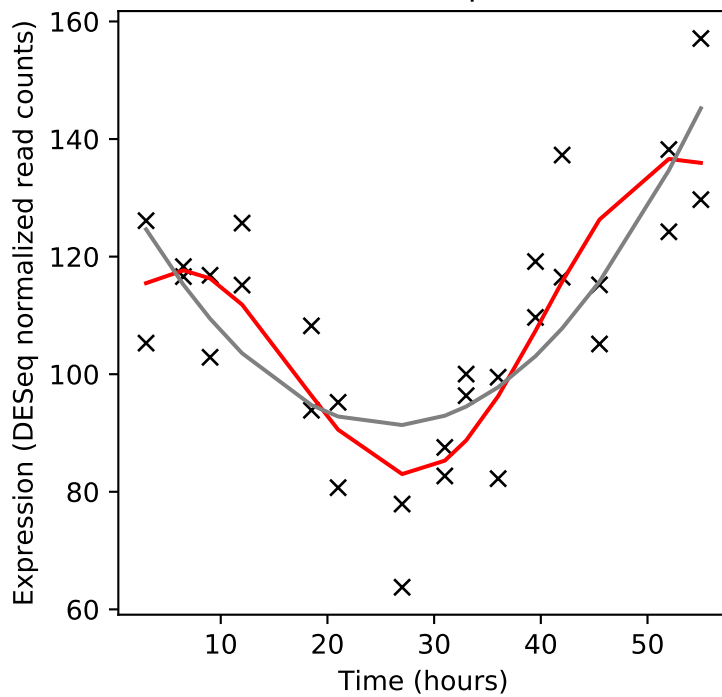
Rv0746/PE_PGRS9



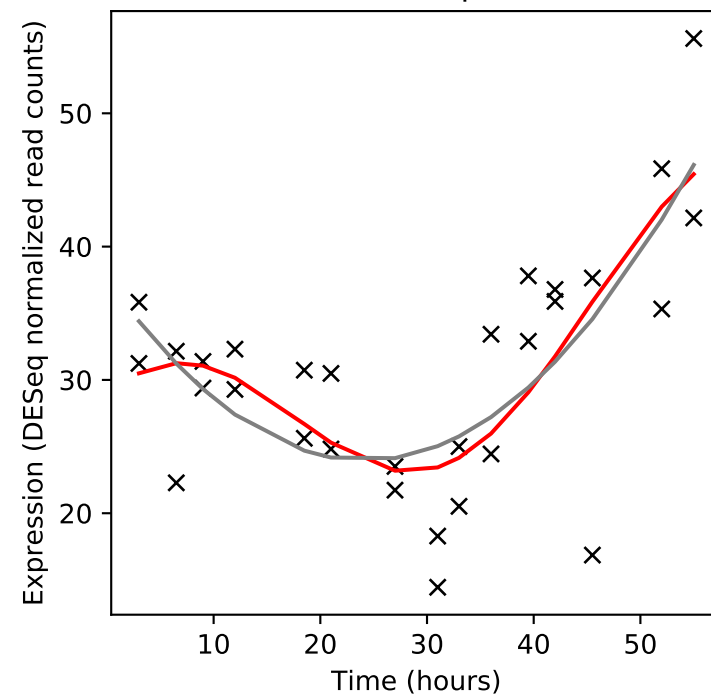
Rv0747/PE_PGRS10



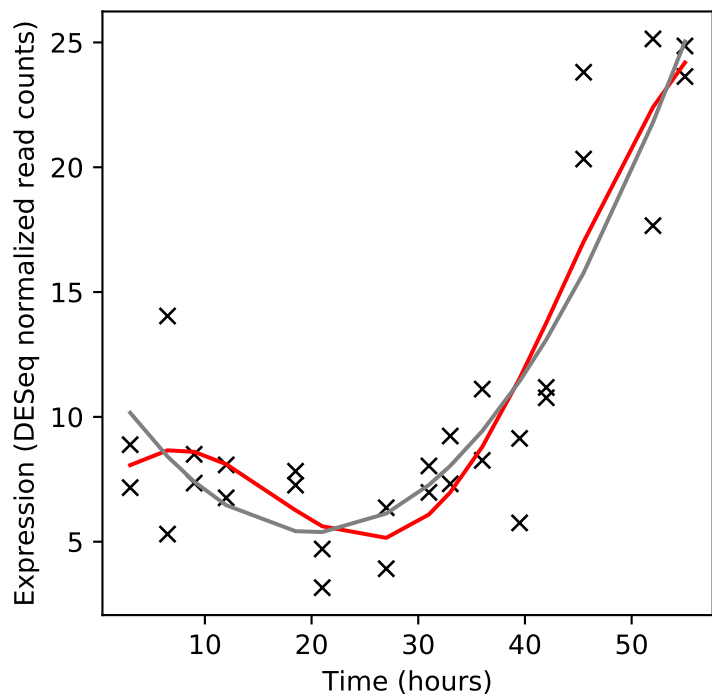
Rv0748/vapB31



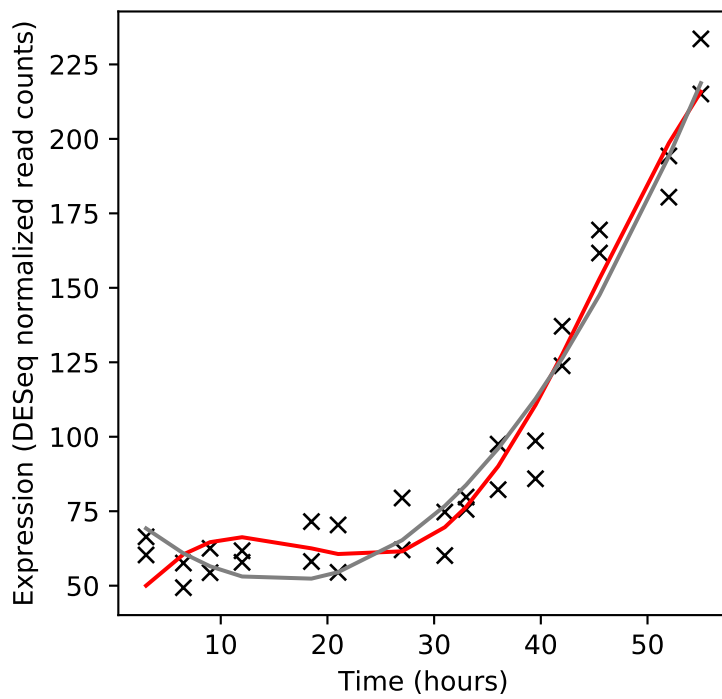
Rv0749/vapC31



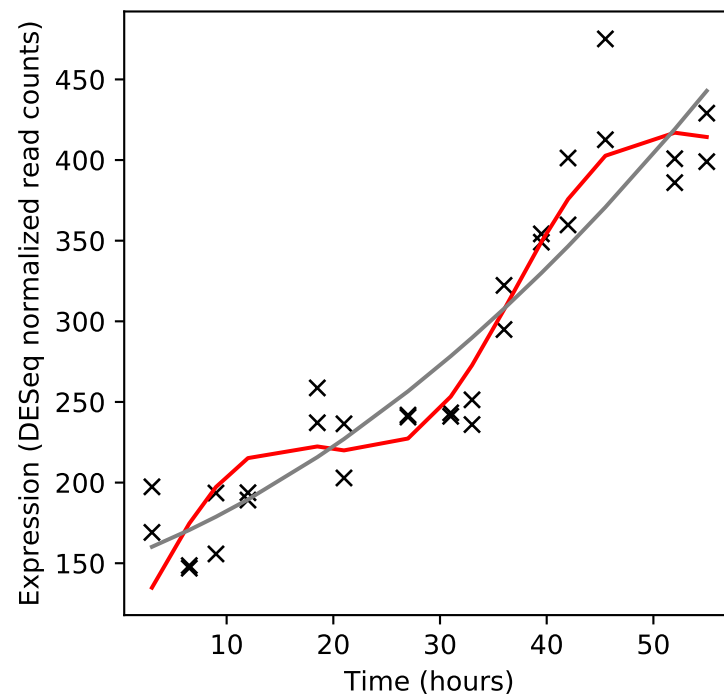
Rv0749A/-



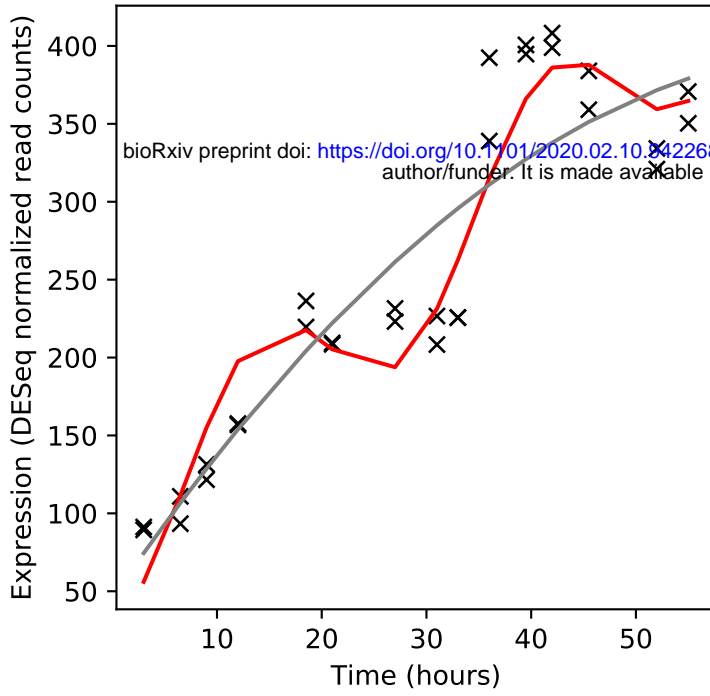
Rv0750/-



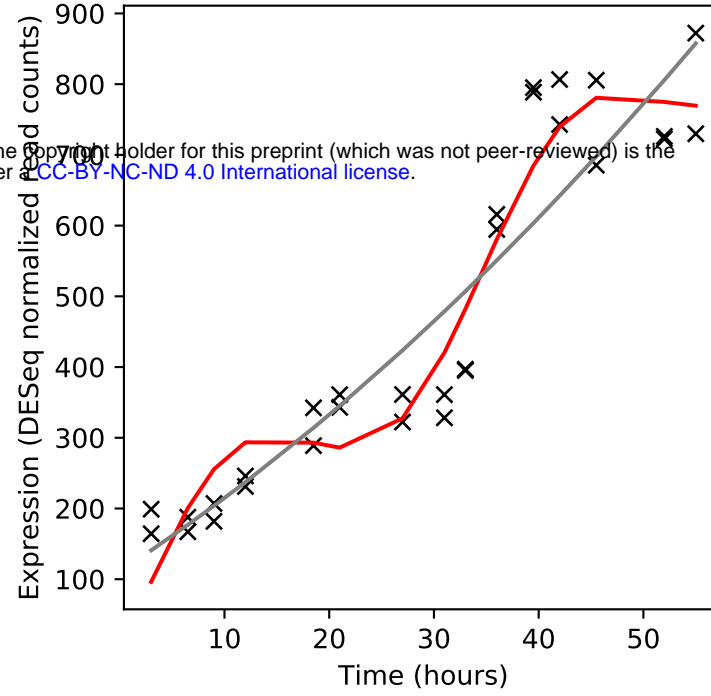
Rv0751c/mmsB



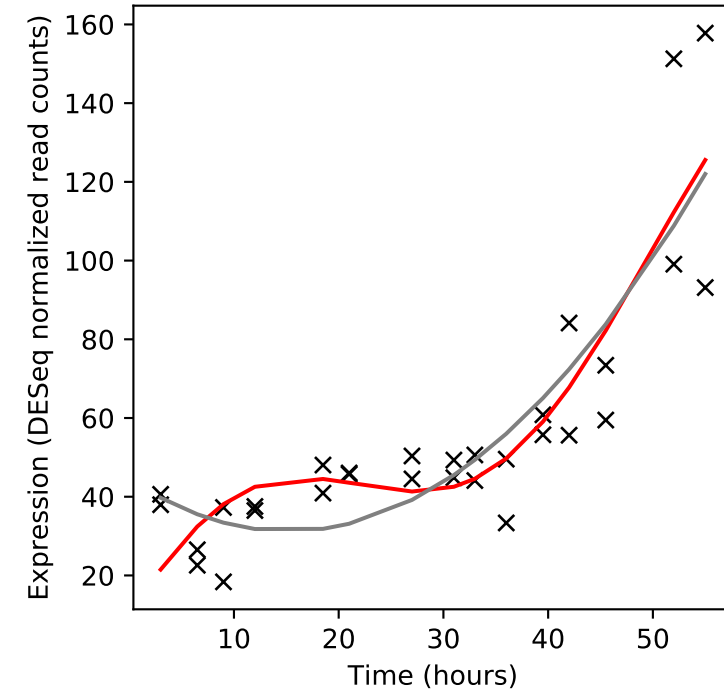
Rv0752c/fadE9



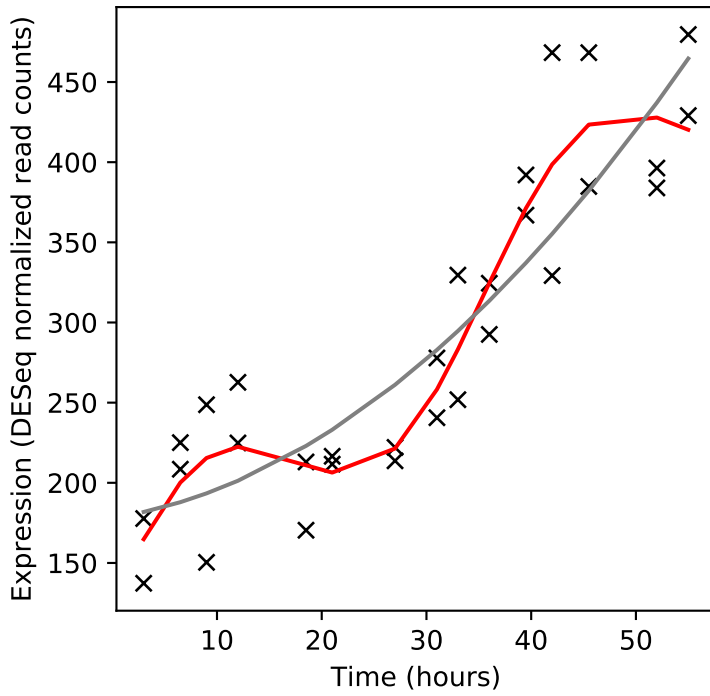
Rv0753c/mmsA



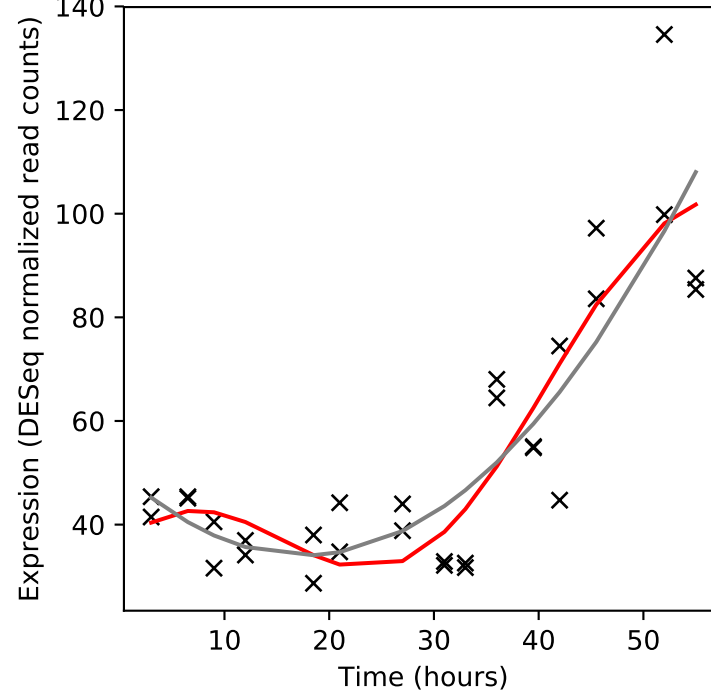
Rv0754/PE_PGRS11



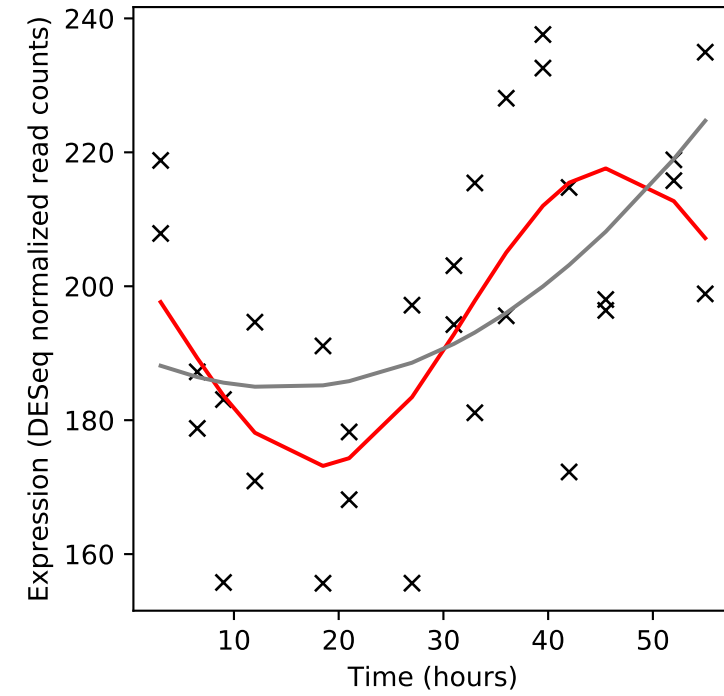
Rv0755c/PPE12



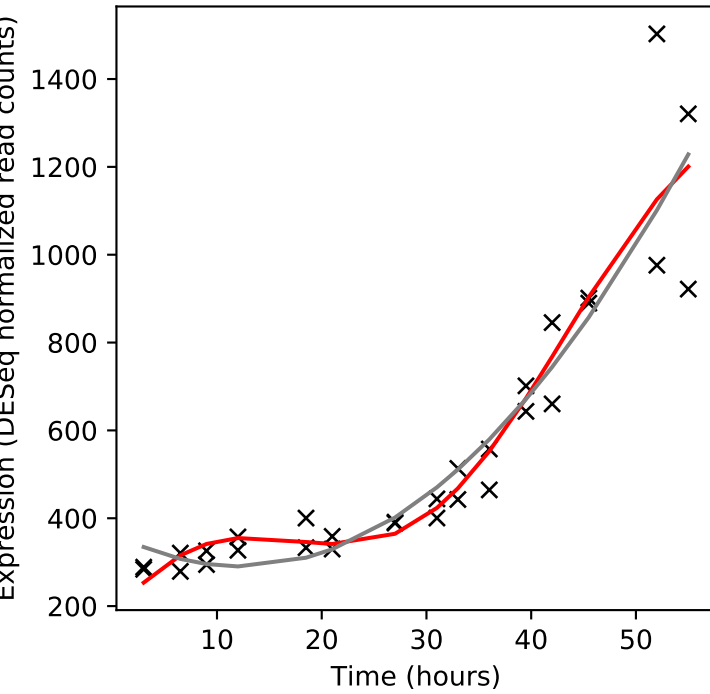
Rv0755A/-



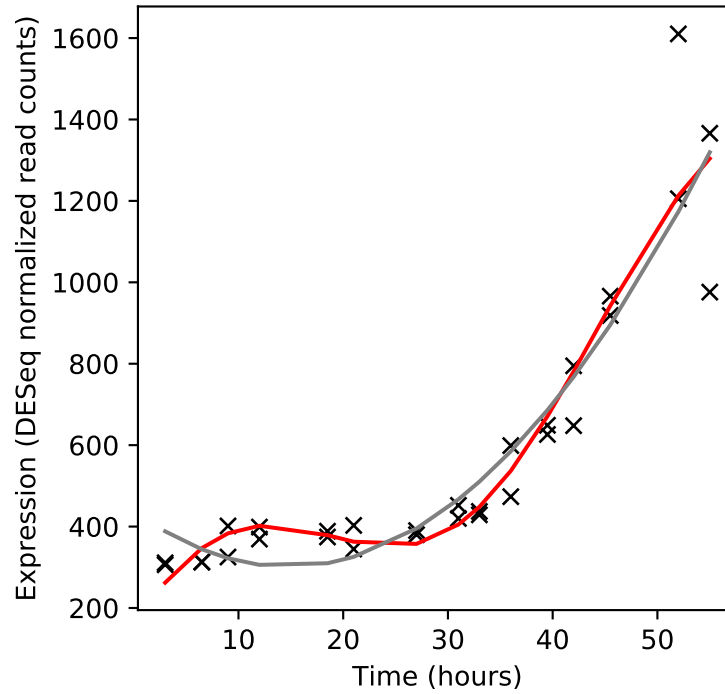
Rv0756c/-



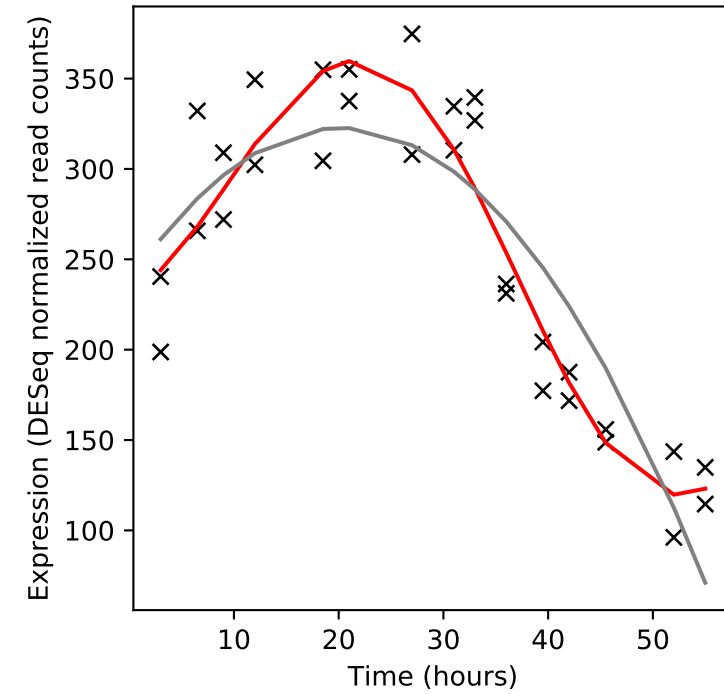
Rv0757/phoP



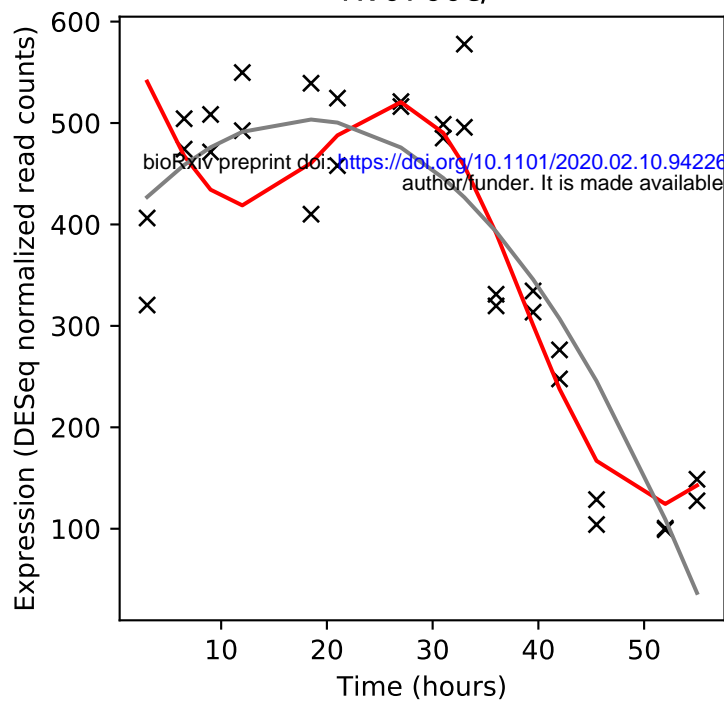
Rv0758/phoR



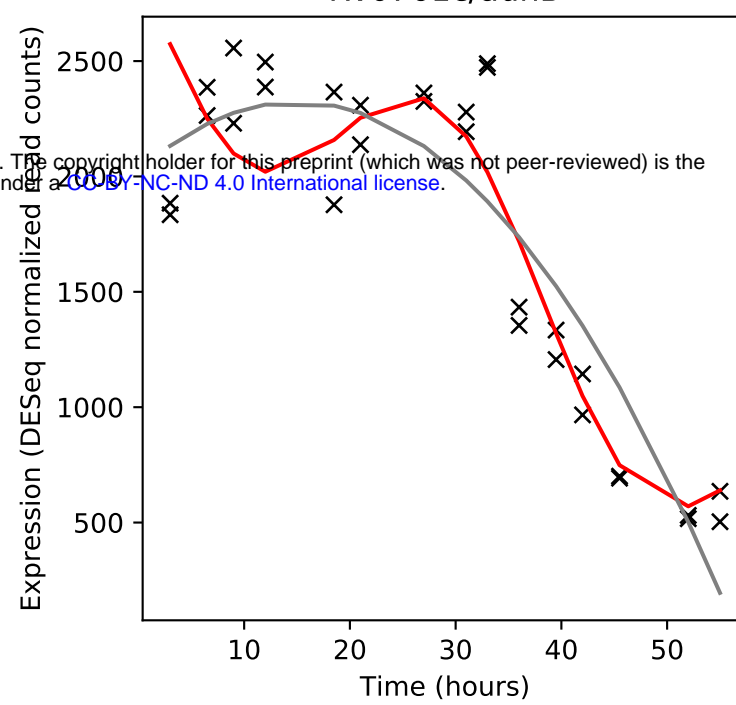
Rv0759c/-



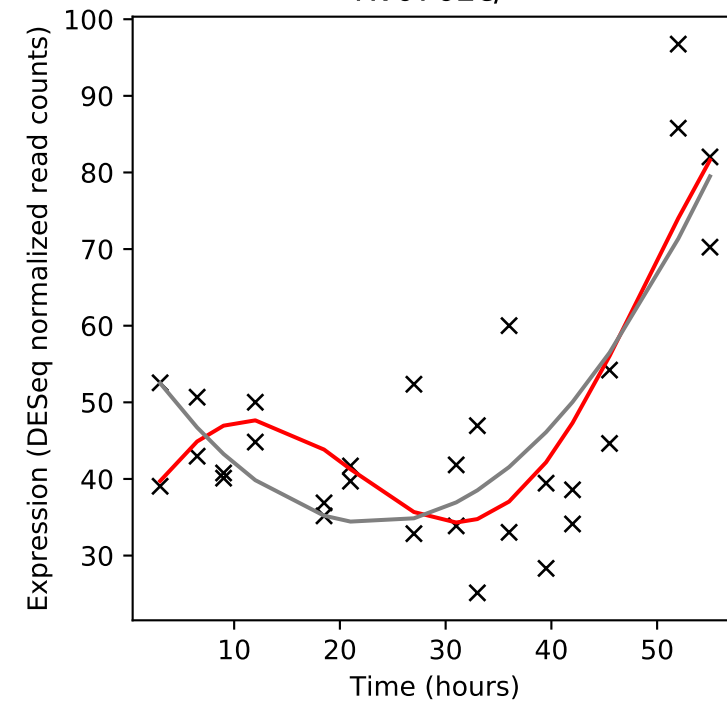
Rv0760c/-



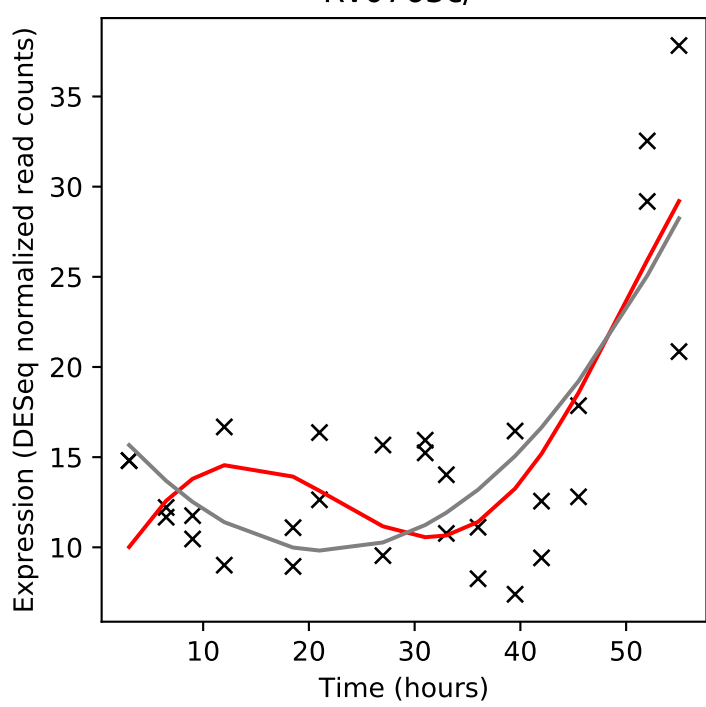
Rv0761c/adhB



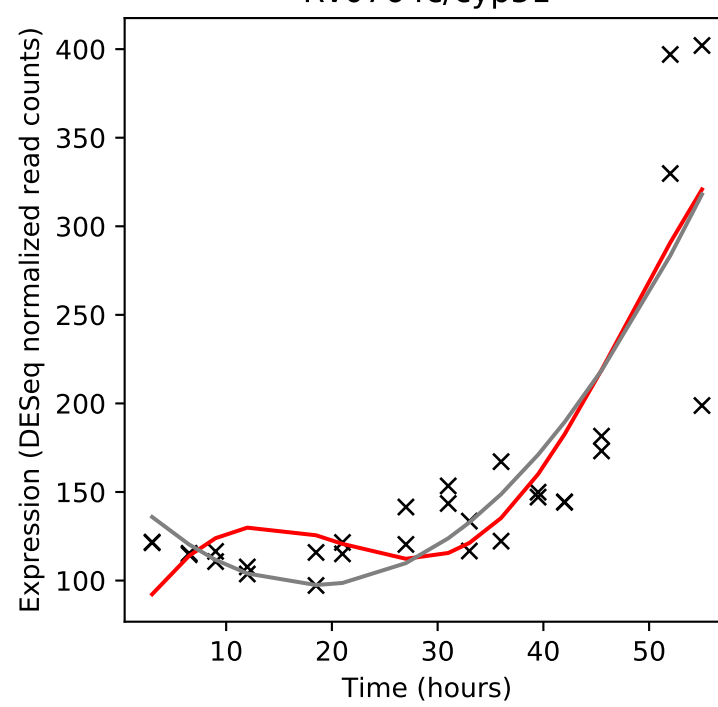
Rv0762c/-



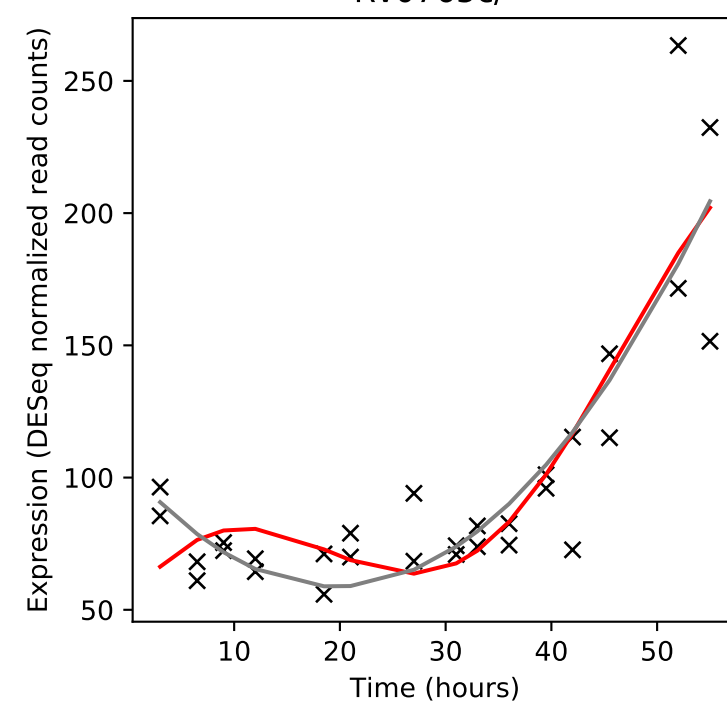
Rv0763c/-



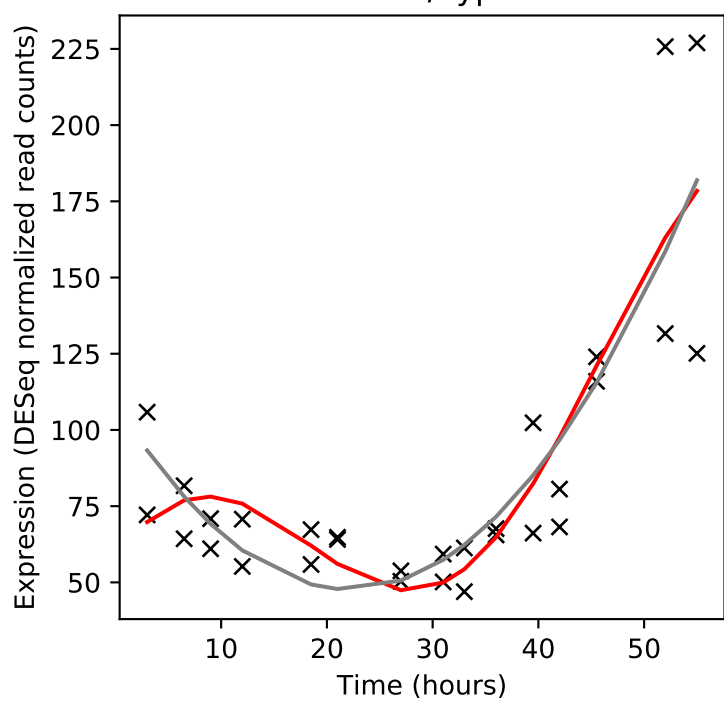
Rv0764c/cyp51



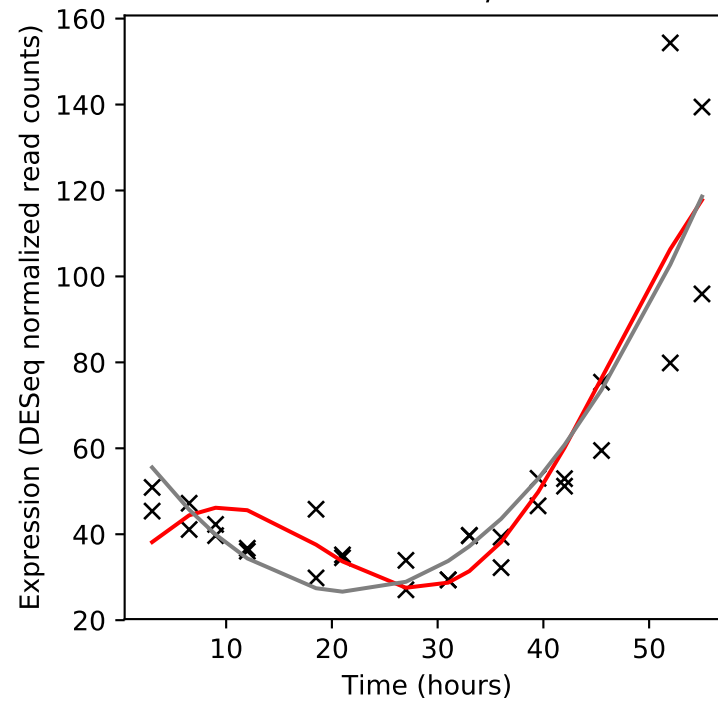
Rv0765c/-



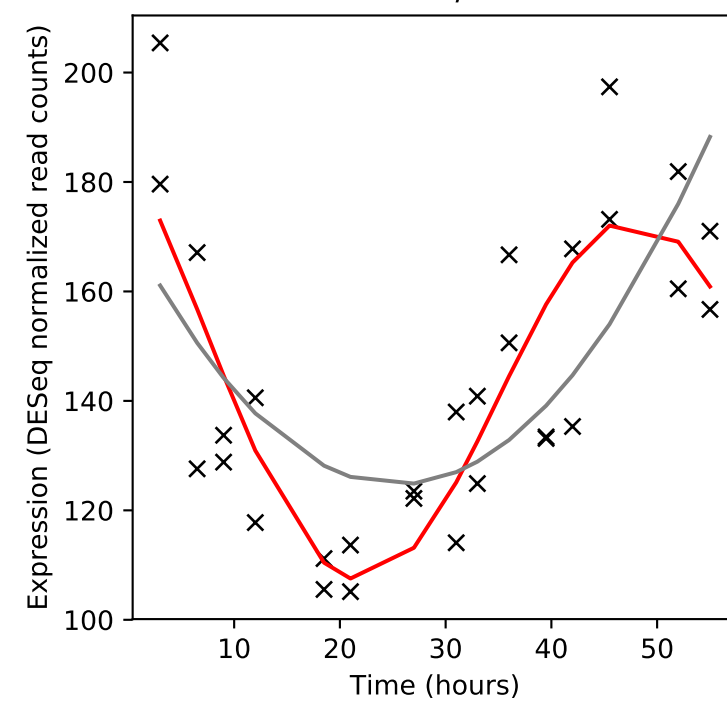
Rv0766c/cyp123



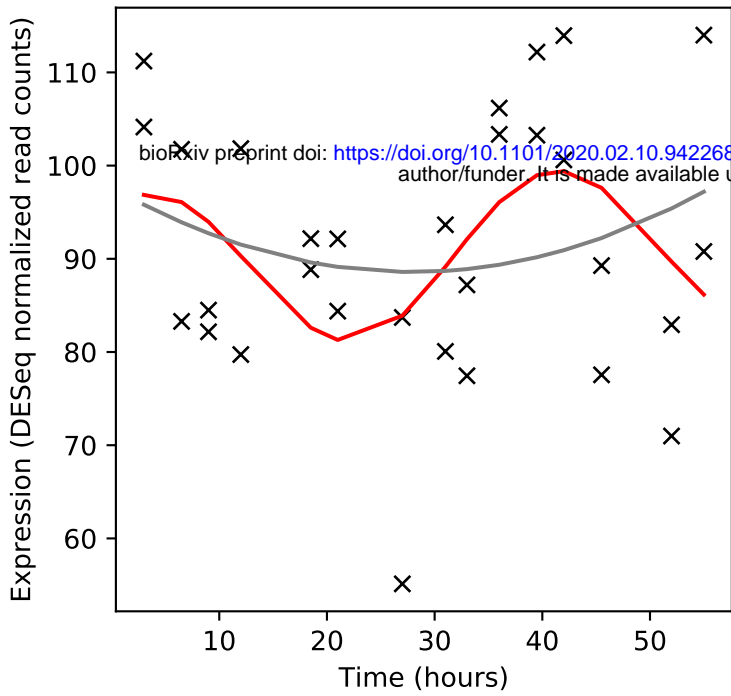
Rv0767c/-



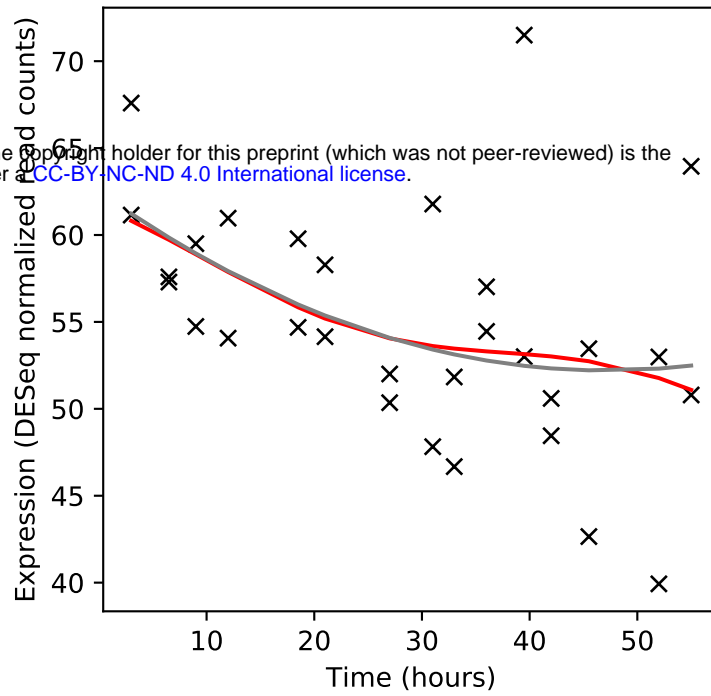
Rv0768/aldA



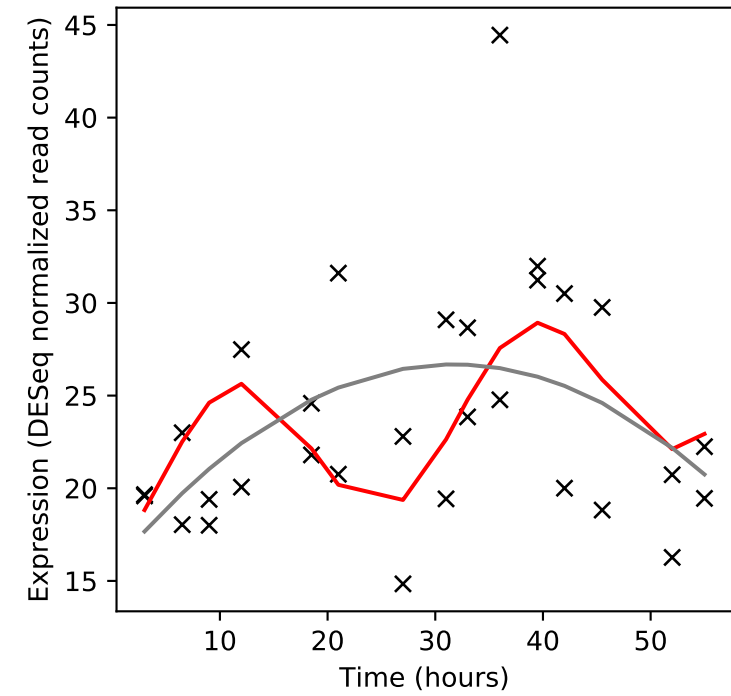
Rv0769/-



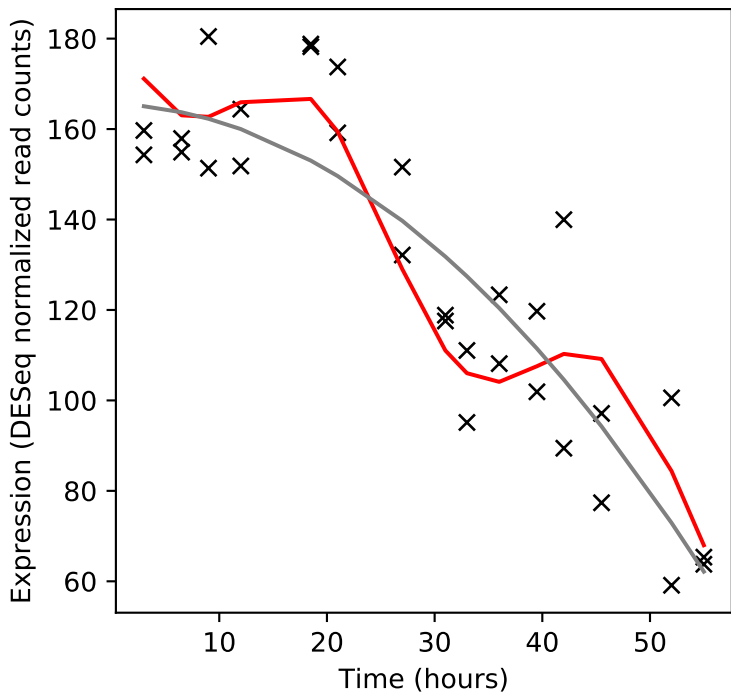
Rv0770/-



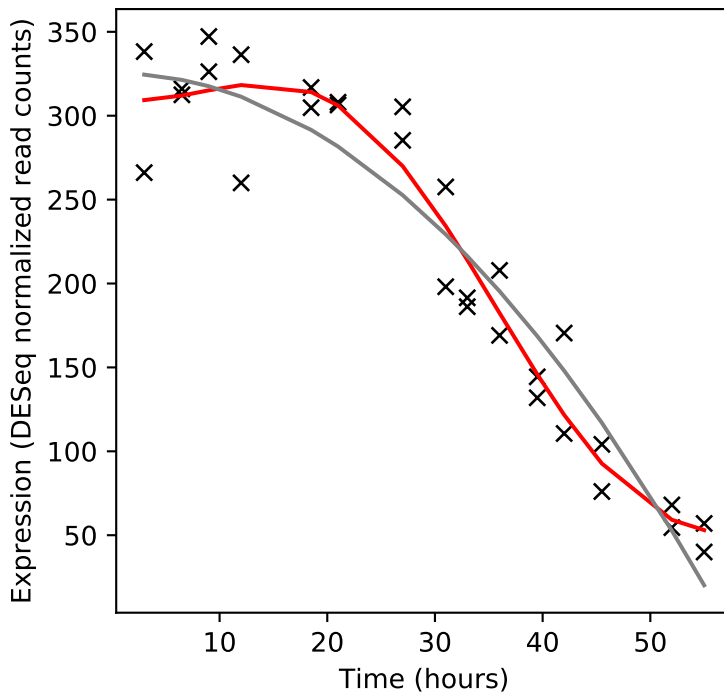
Rv0771/-



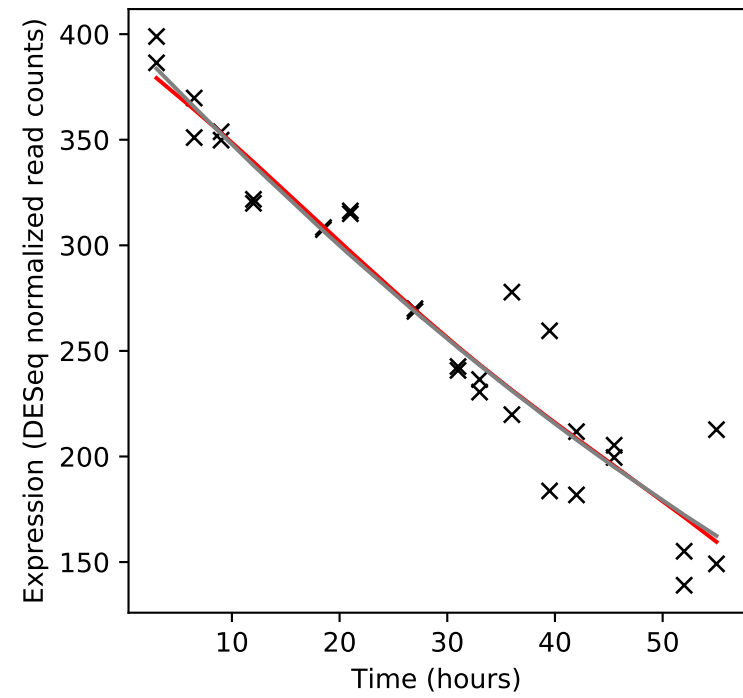
Rv0772/purD



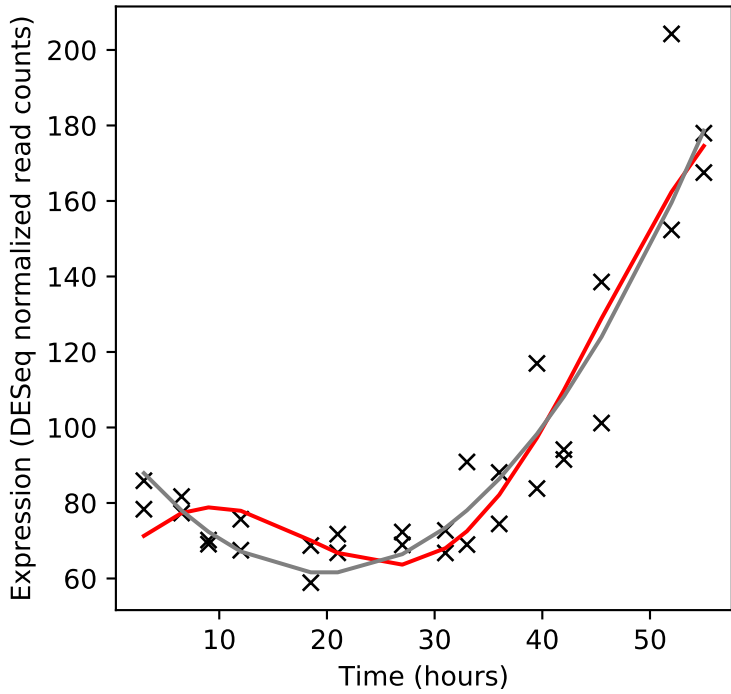
Rv0773c/ggtA



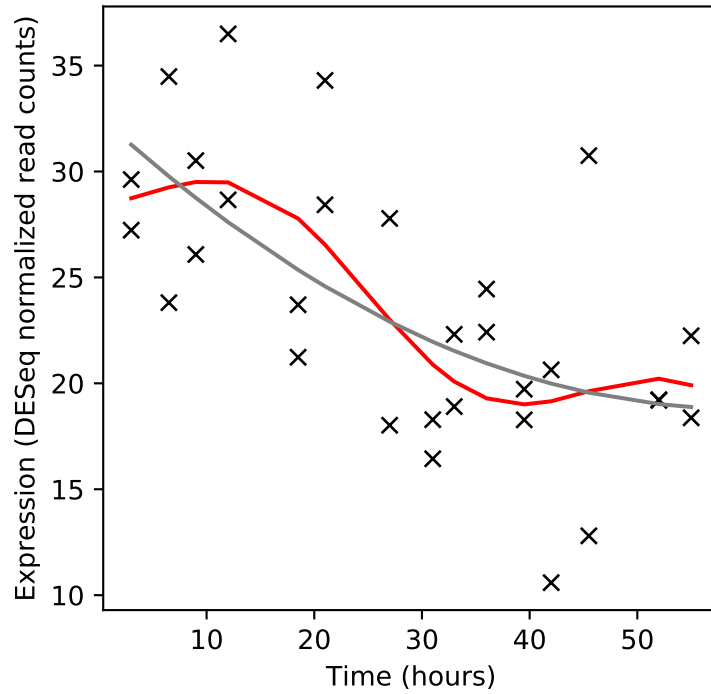
Rv0774c/-



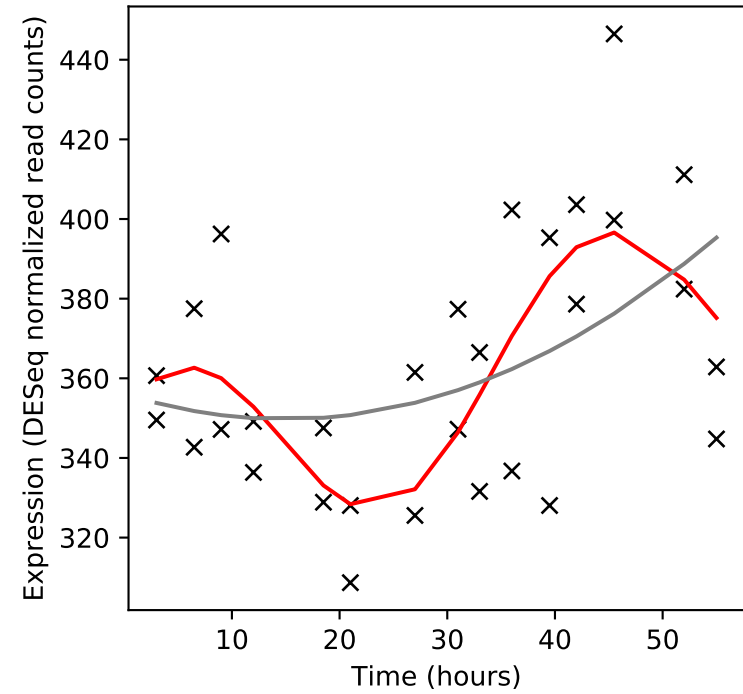
Rv0775/-



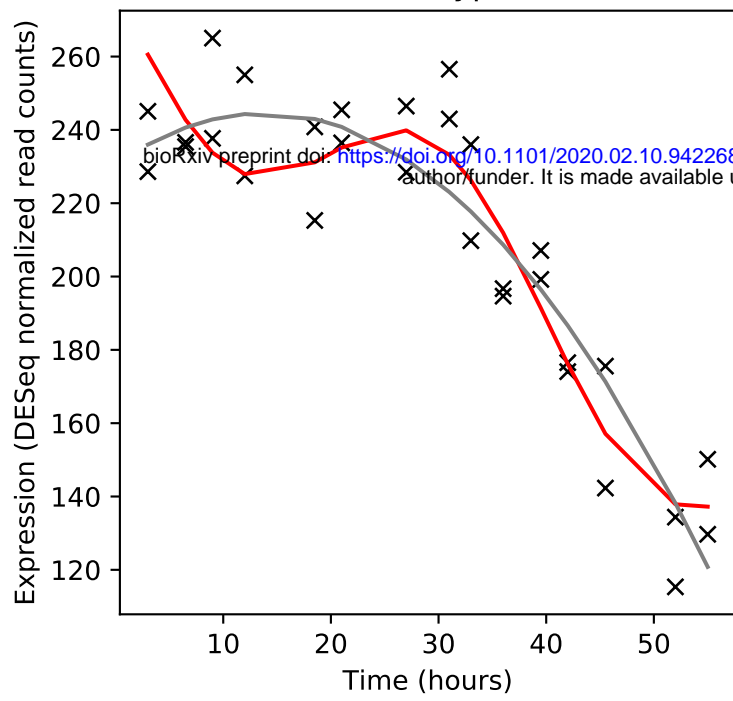
Rv0776c/-



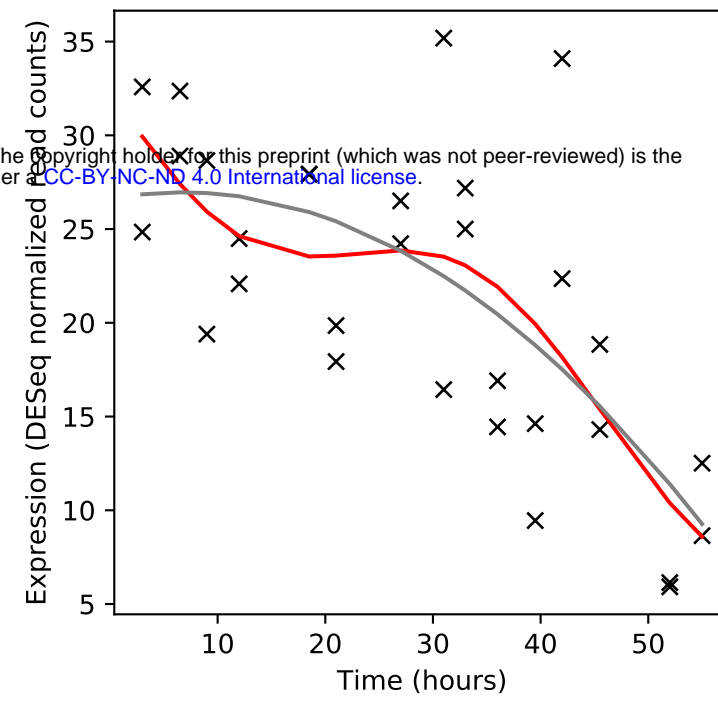
Rv0777/purB



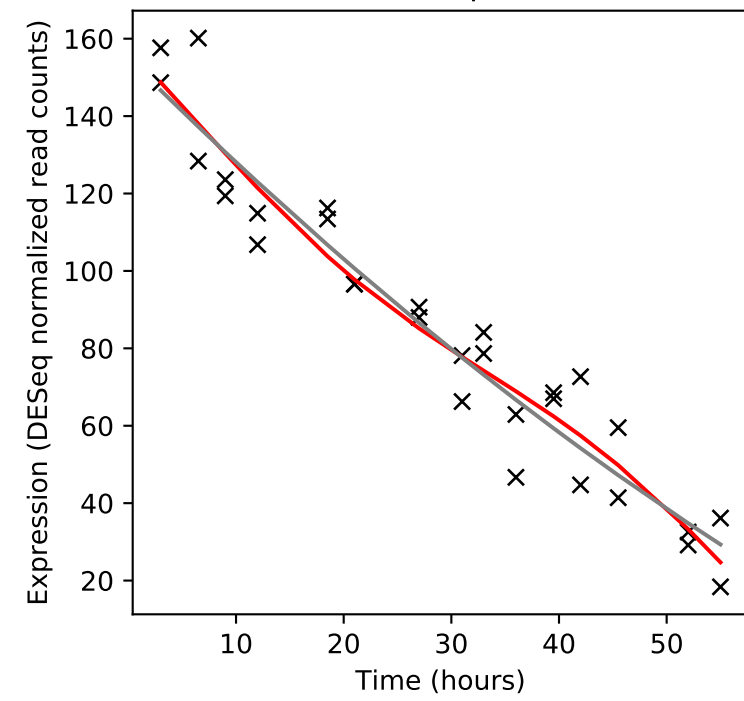
Rv0778/cyp126



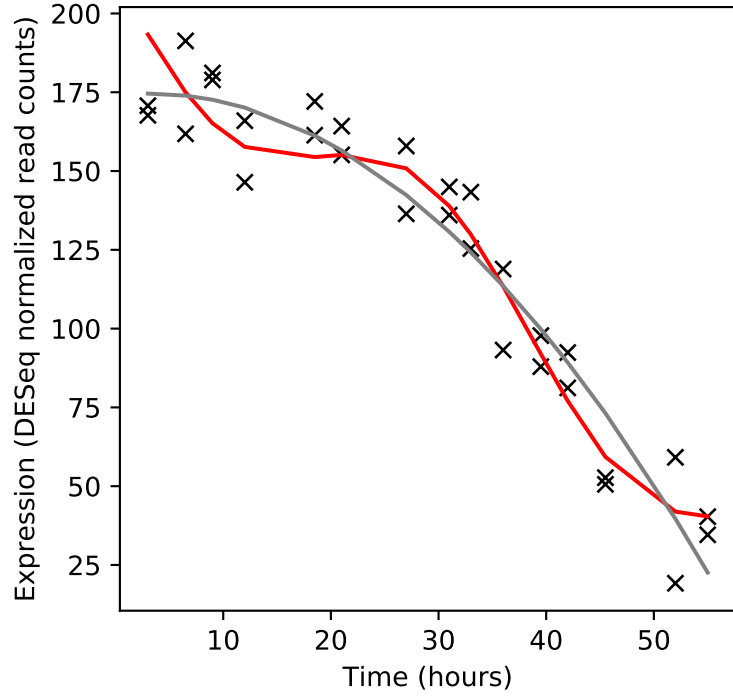
Rv0779c/-



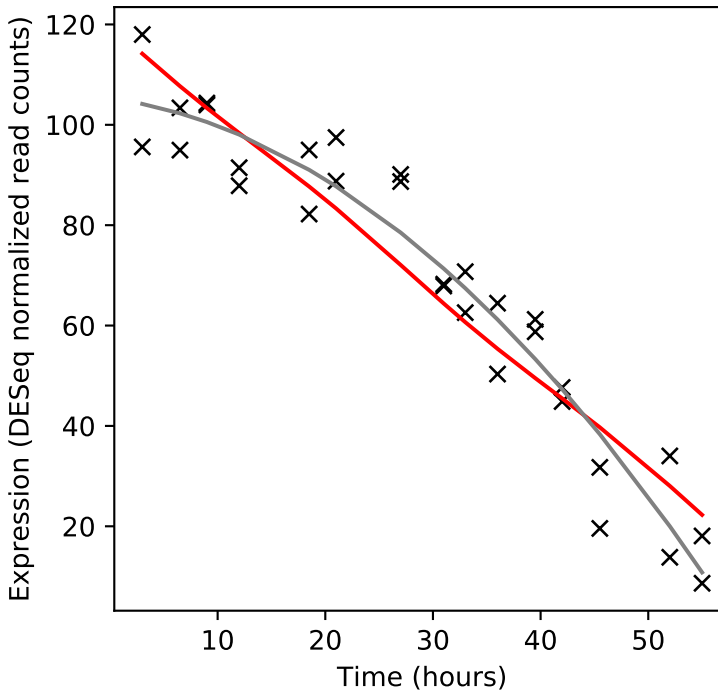
Rv0780/purC



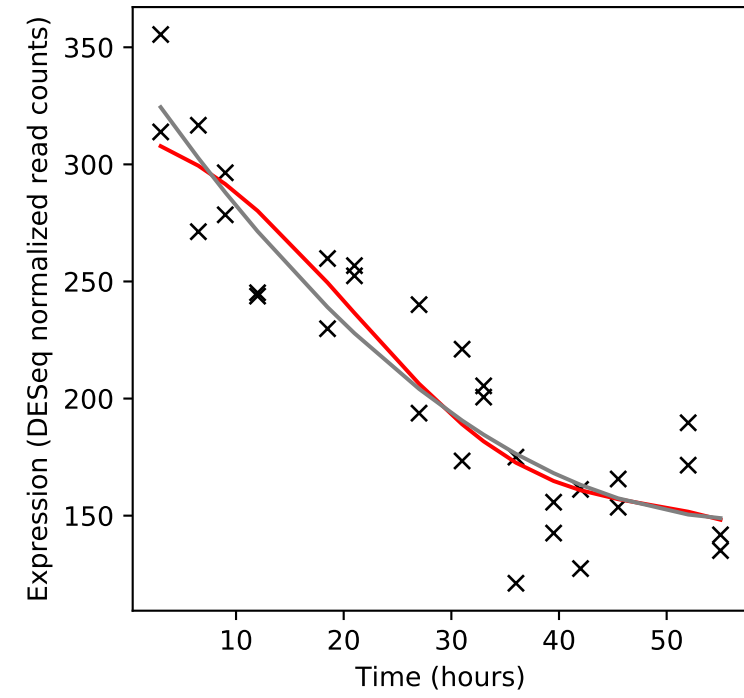
Rv0781/ptrBa



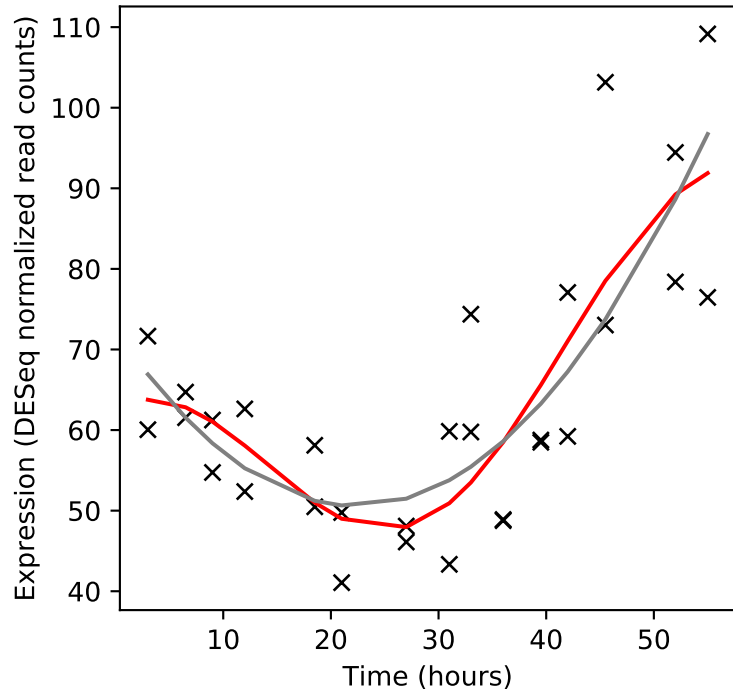
Rv0782/ptrBb



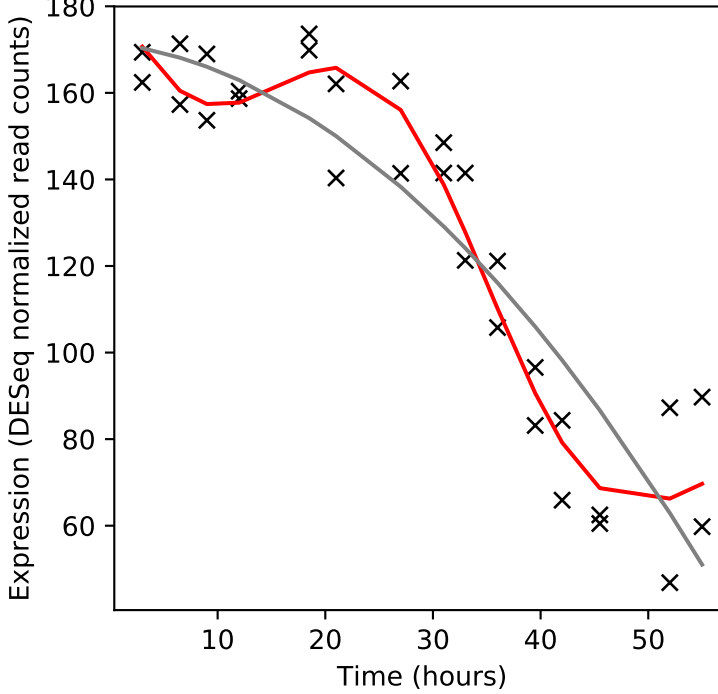
Rv0783c/emrB



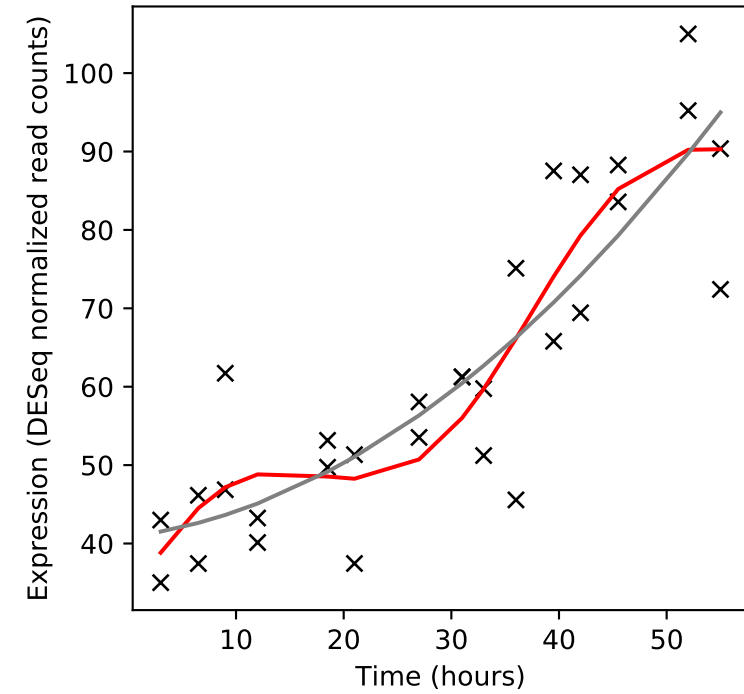
Rv0784/-



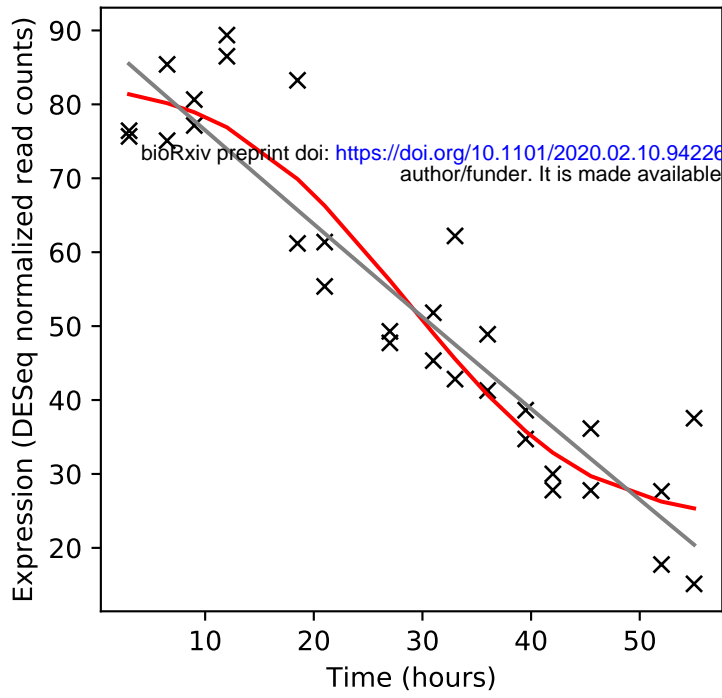
Rv0785/-



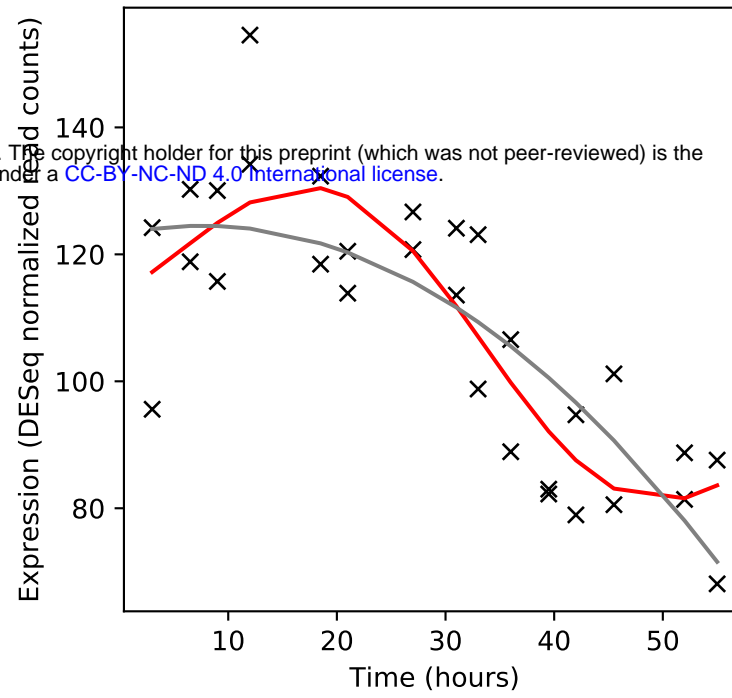
Rv0786c/-



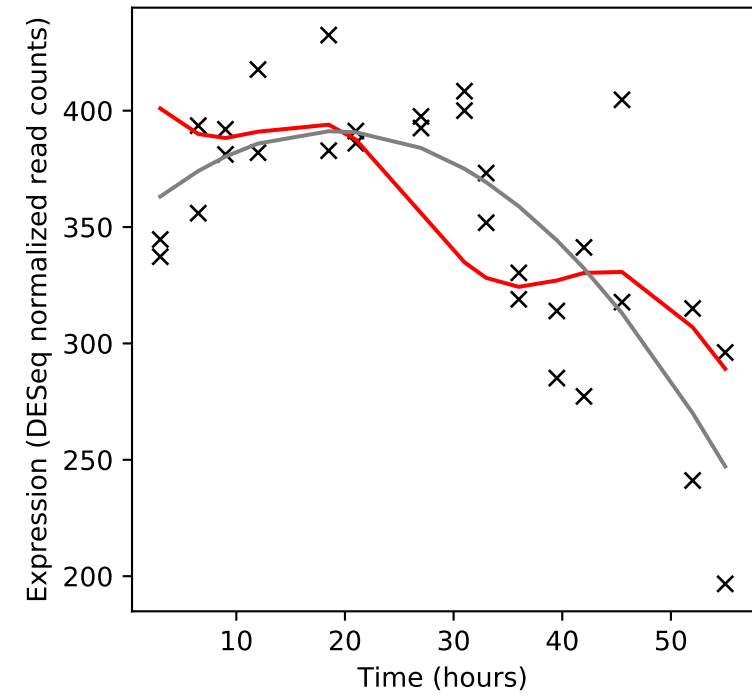
Rv0787/-



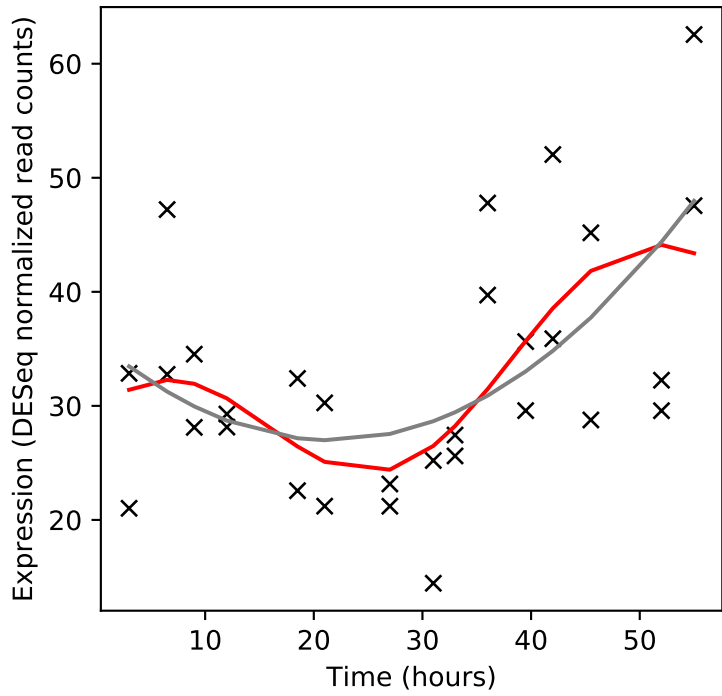
Rv0787A/-



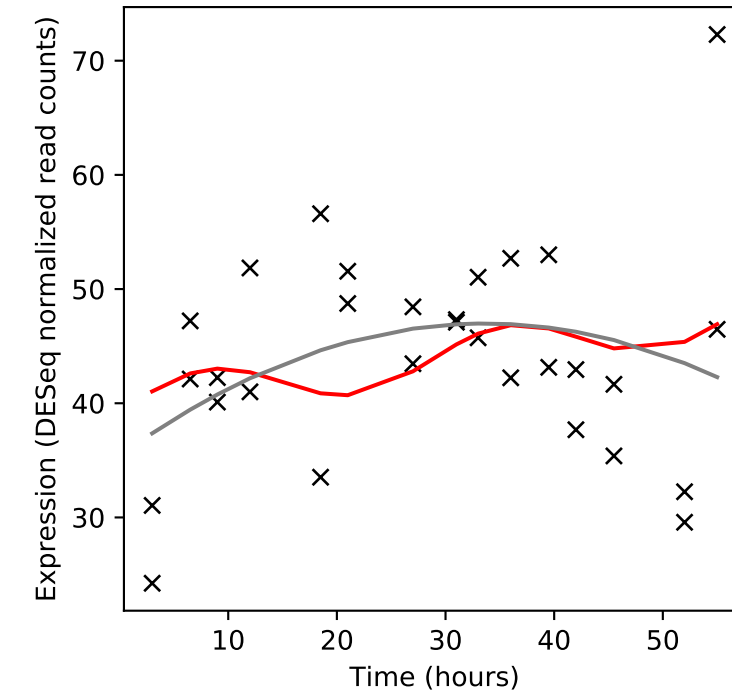
Rv0788/purQ



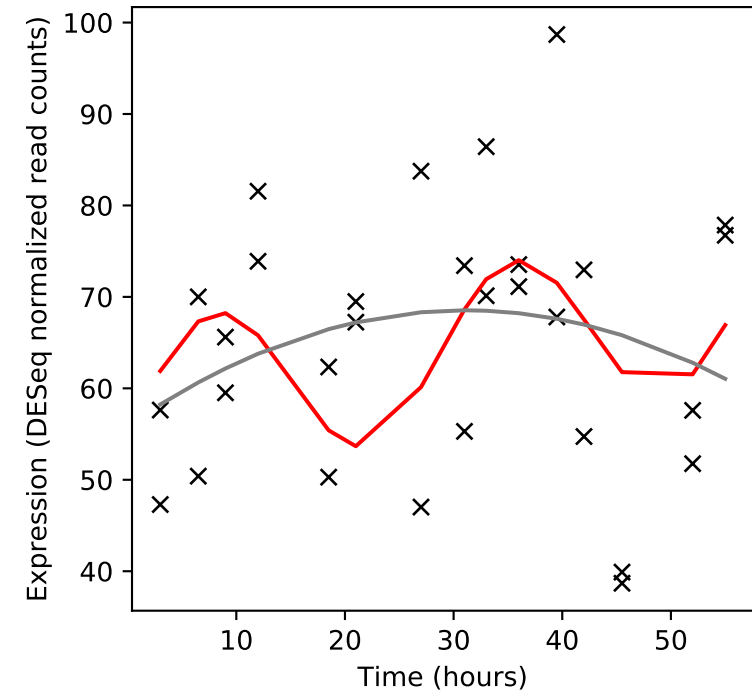
Rv0789c/-



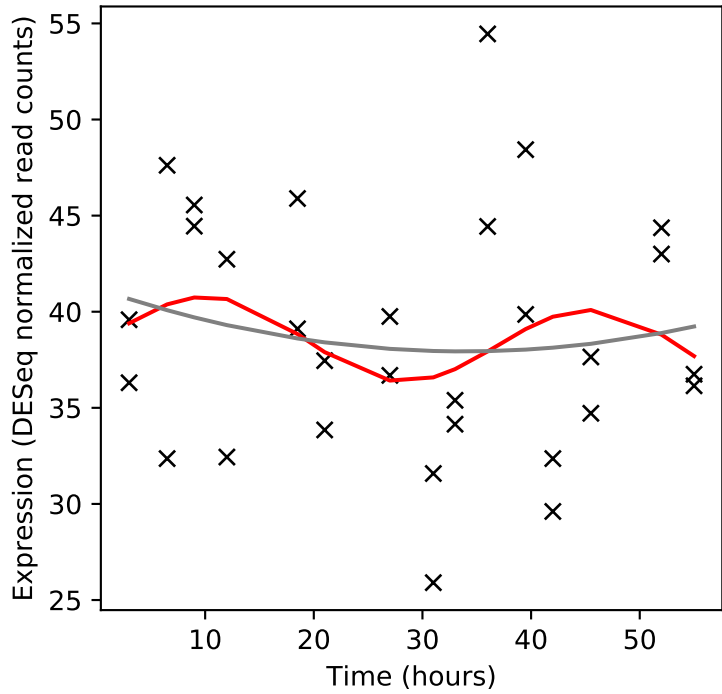
Rv0790c/-



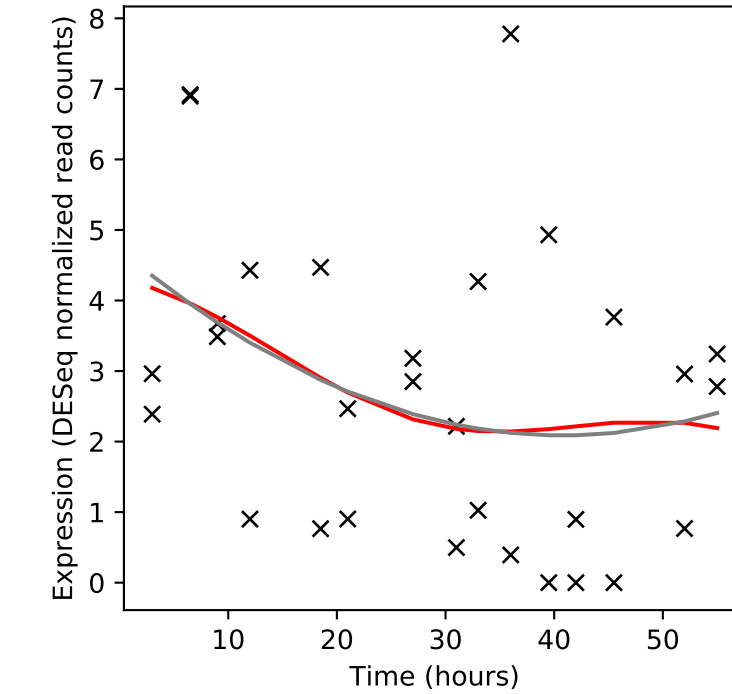
Rv0791c/-



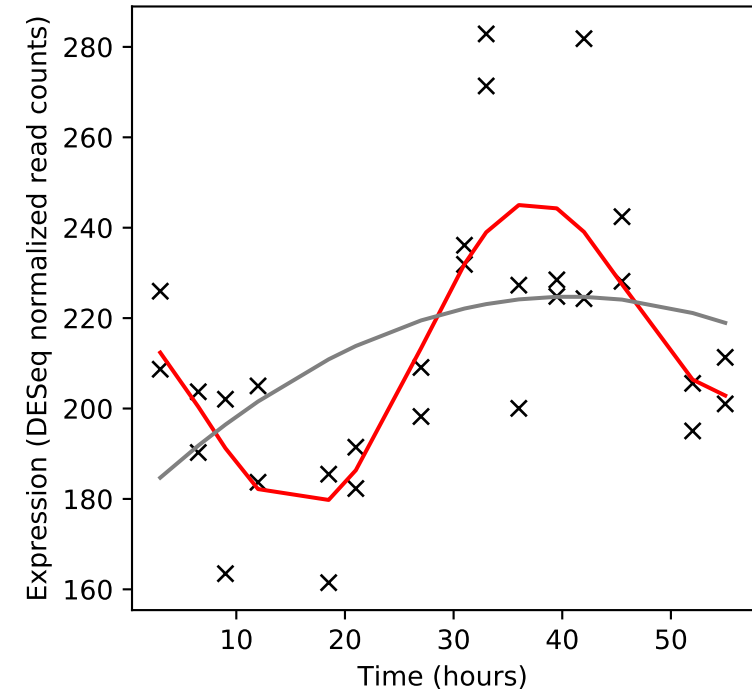
Rv0792c/-



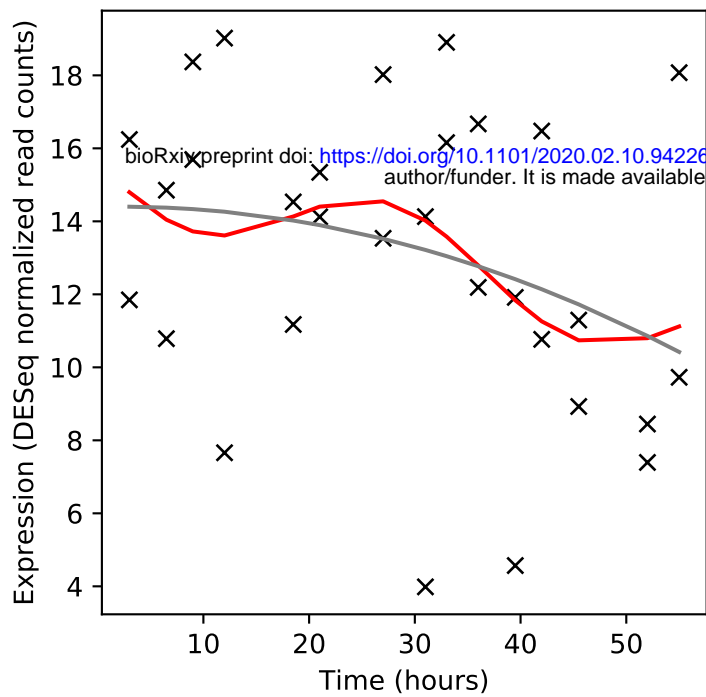
Rv0793/-



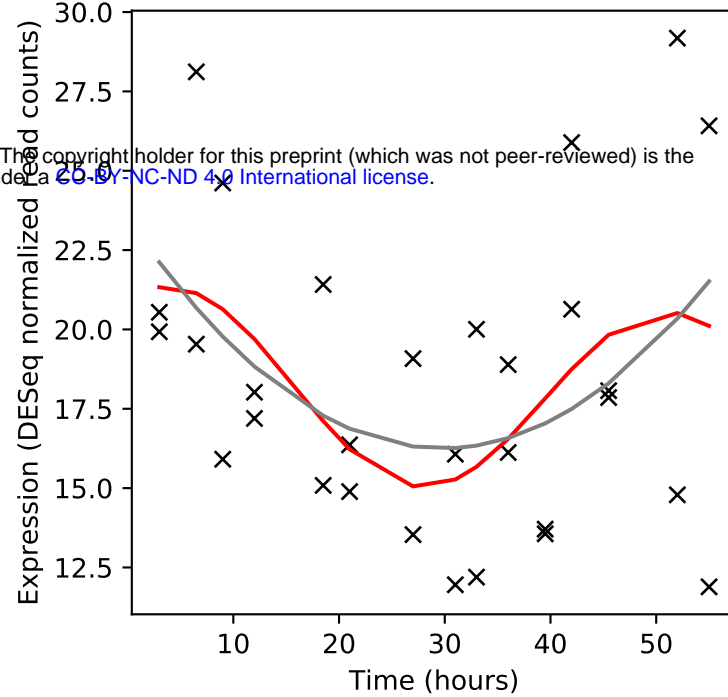
Rv0794c/-



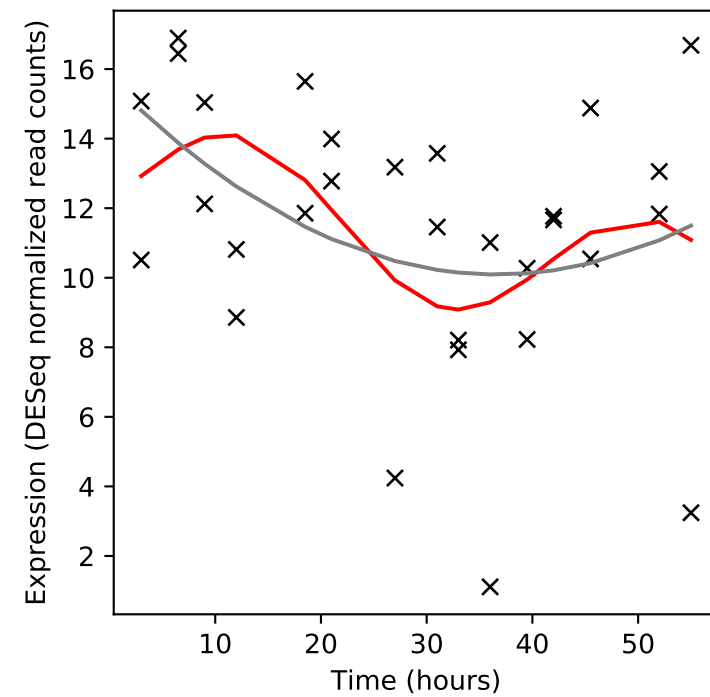
Rv0795/-



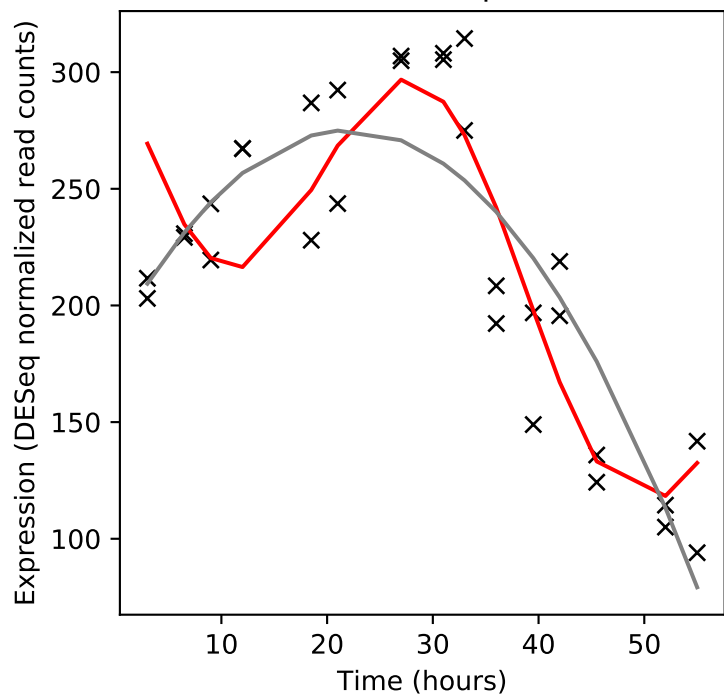
Rv0796/-



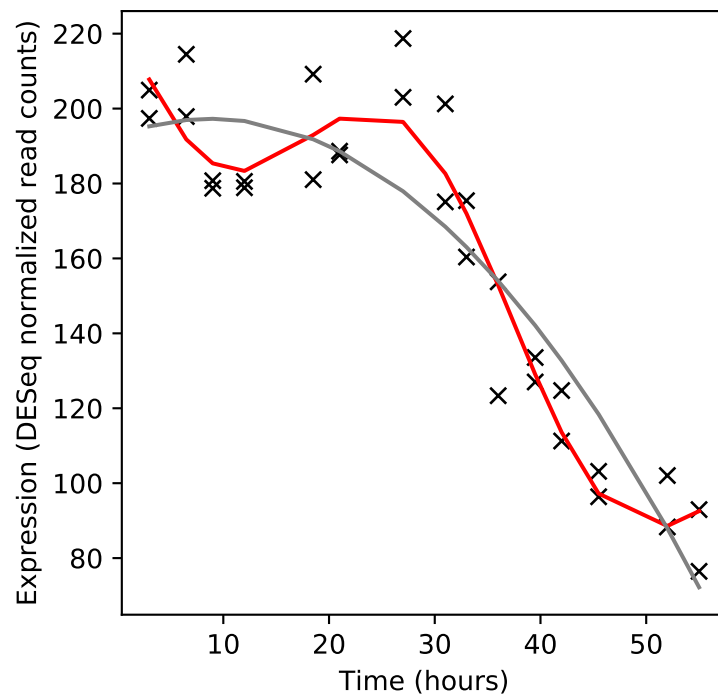
Rv0797/-



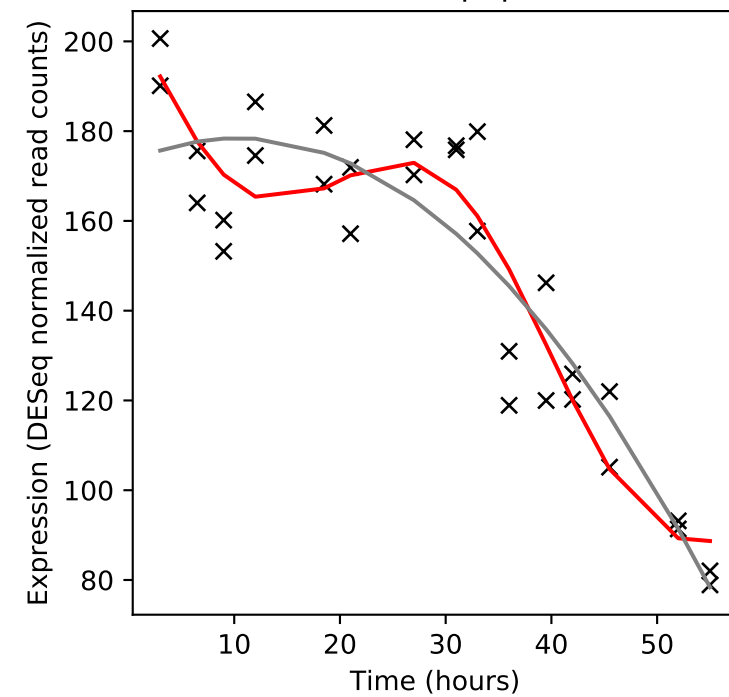
Rv0798c/cfp29



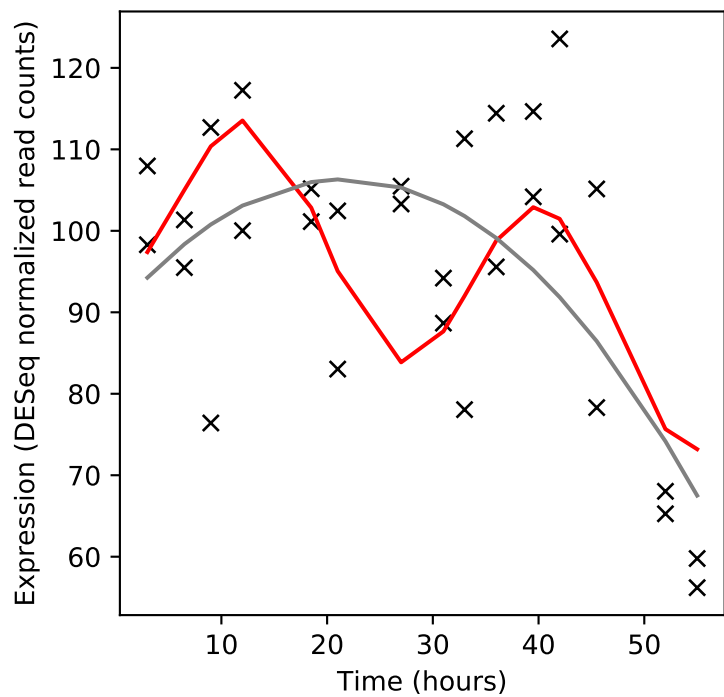
Rv0799c/-



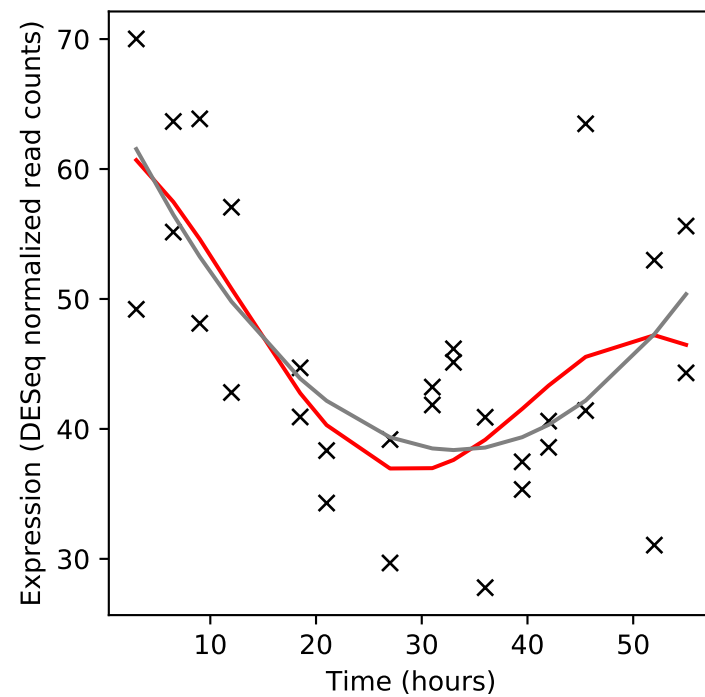
Rv0800/pepC



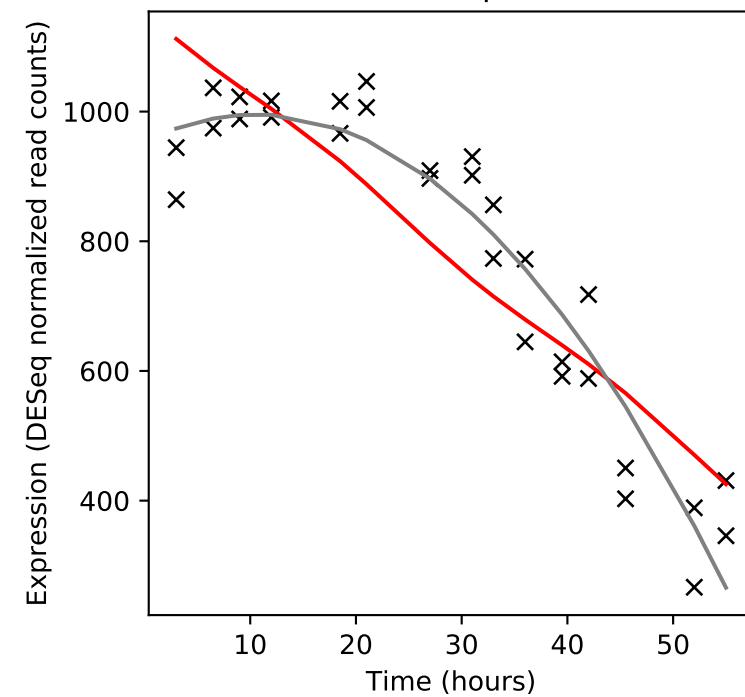
Rv0801/-



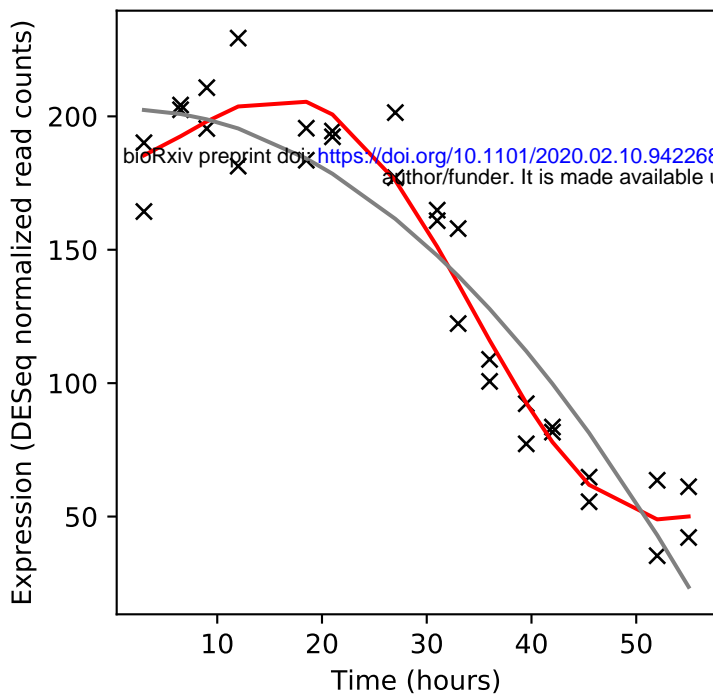
Rv0802c/-



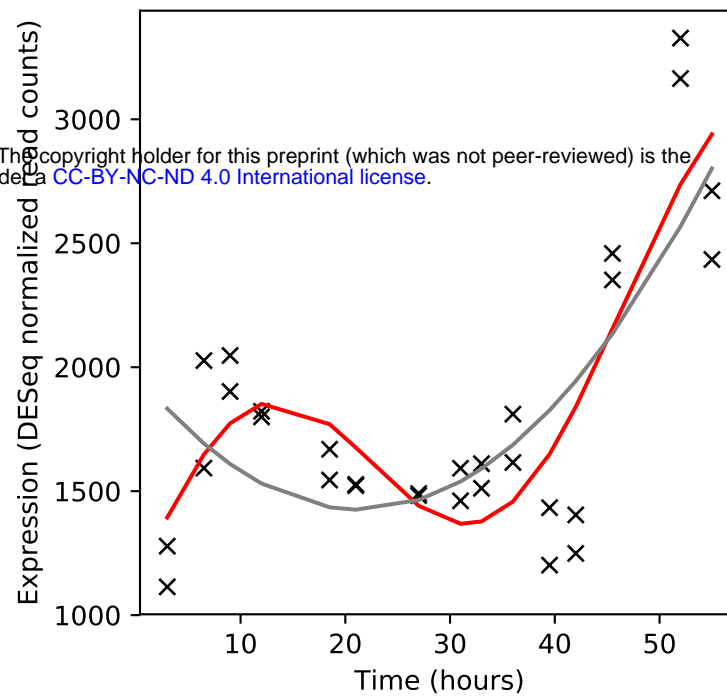
Rv0803/purL



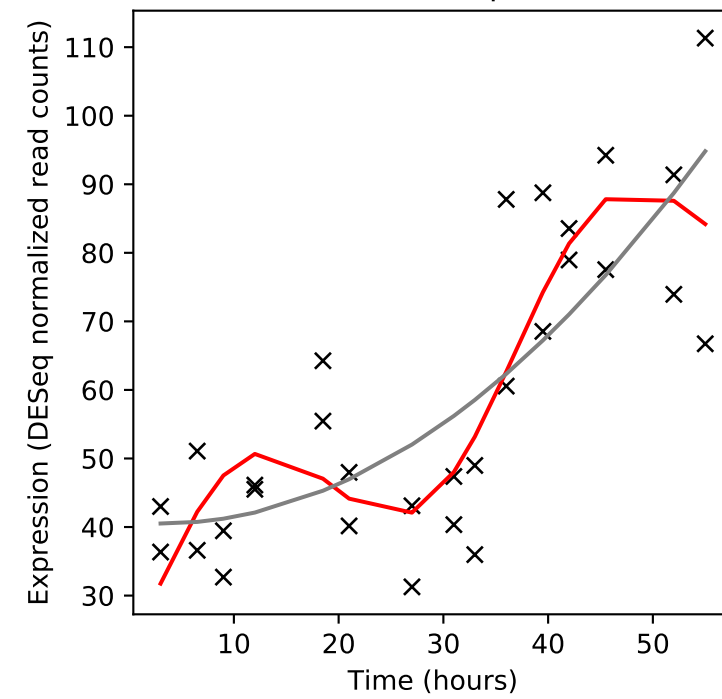
Rv0804/-



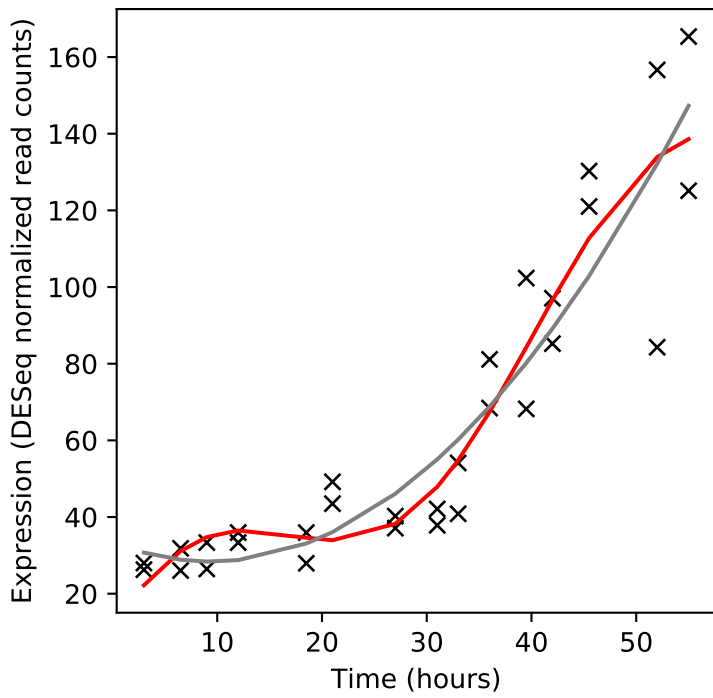
Rv0805/-



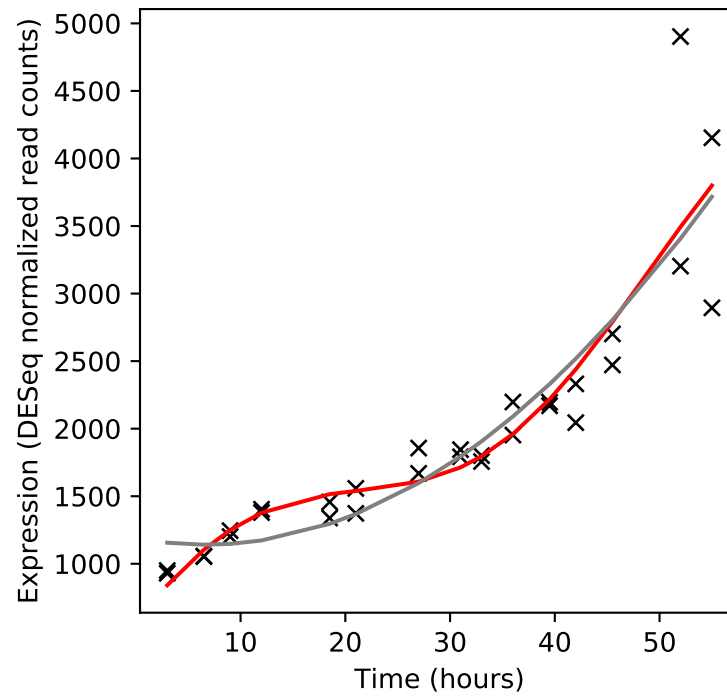
Rv0806c/cpsY



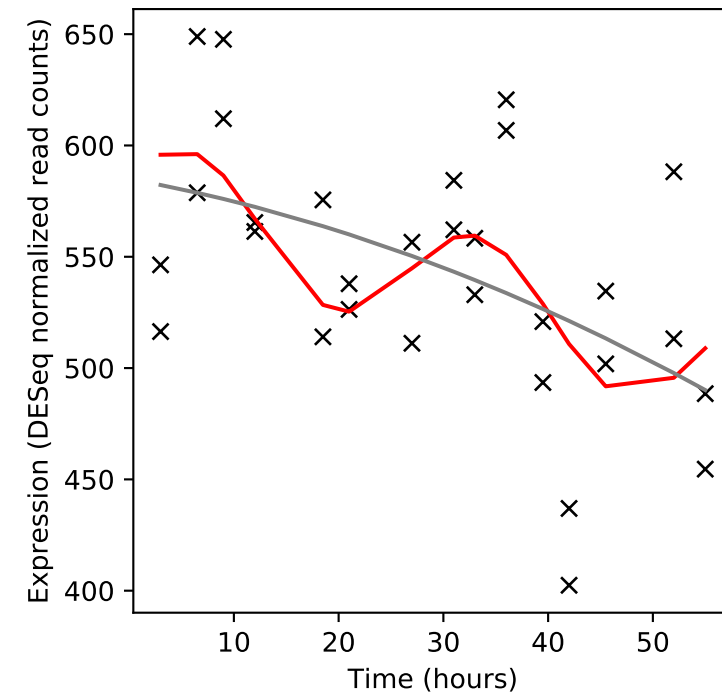
Rv0807/-



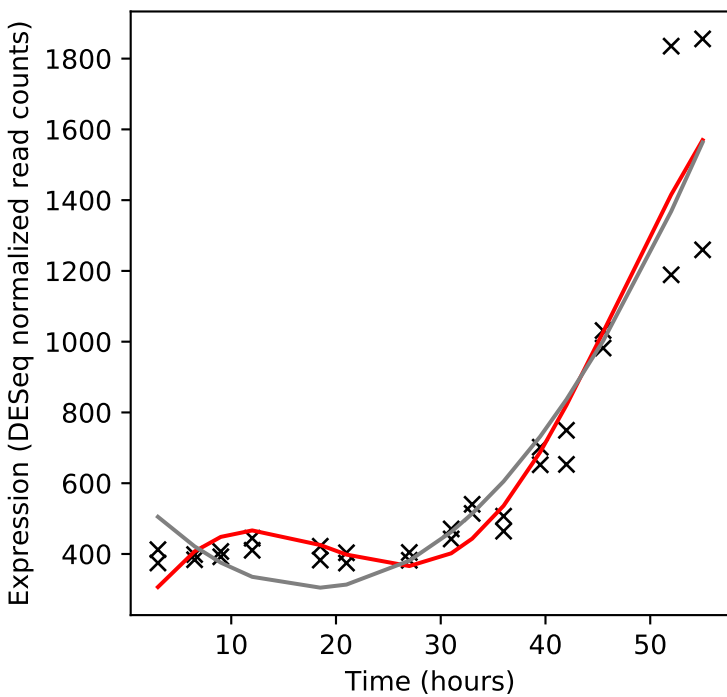
Rv0808/purF



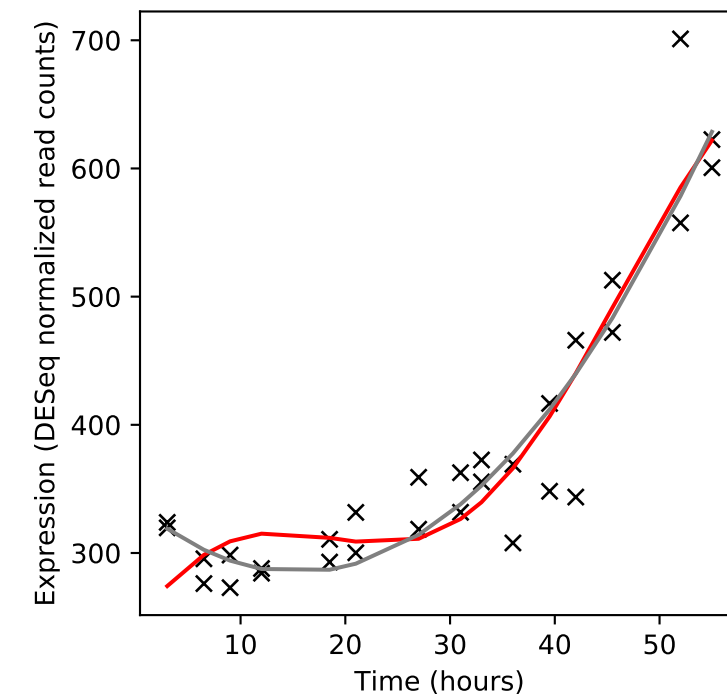
Rv0809/purM



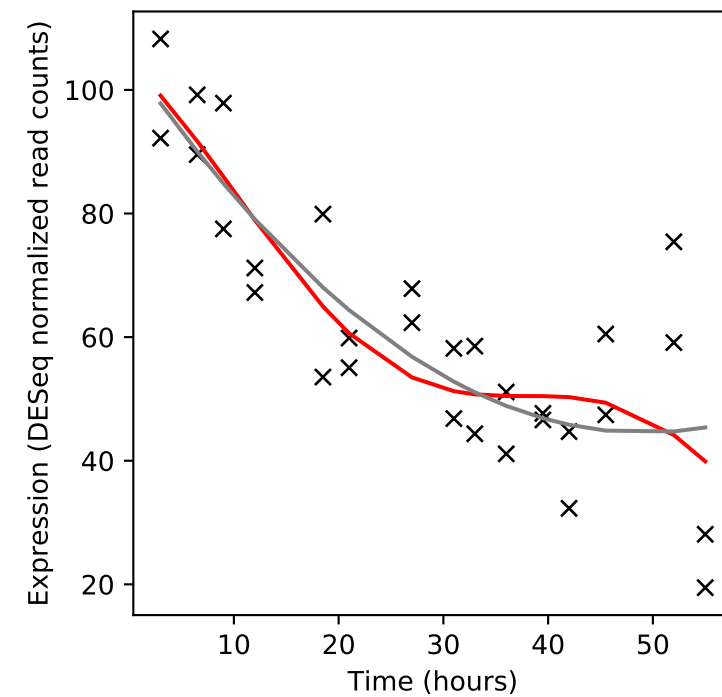
Rv0810c/-



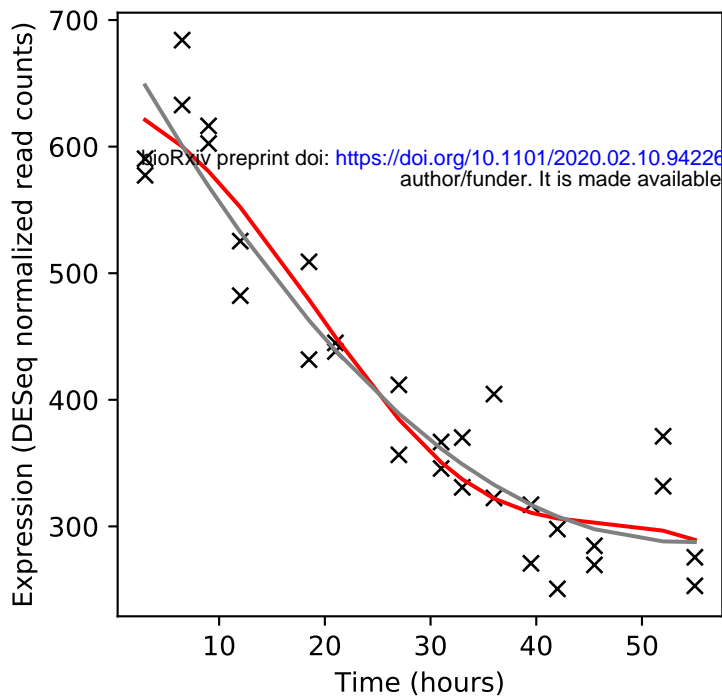
Rv0811c/-



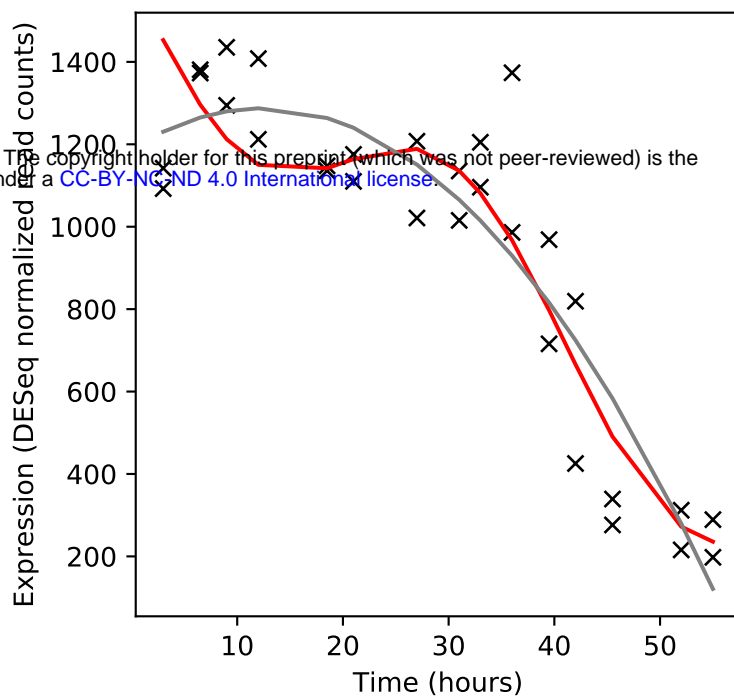
Rv0812/-



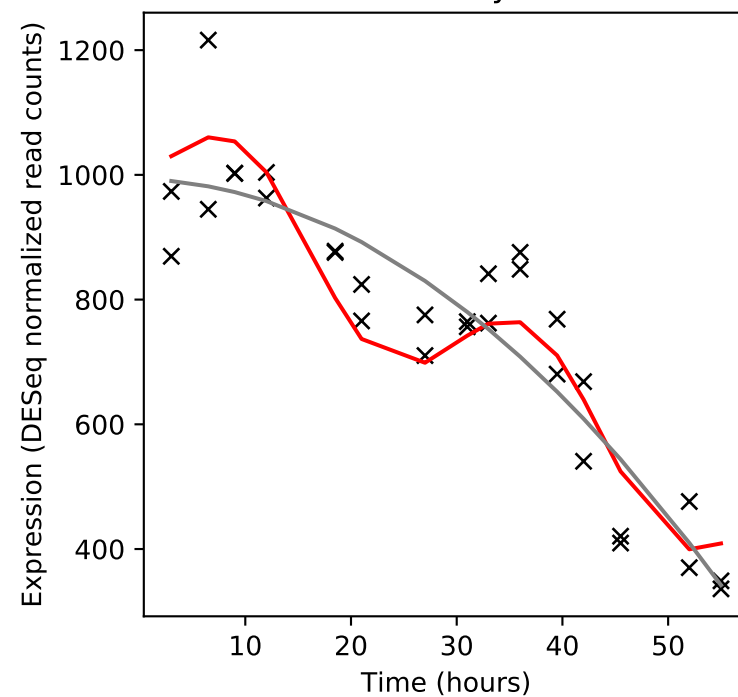
Rv0813c/-



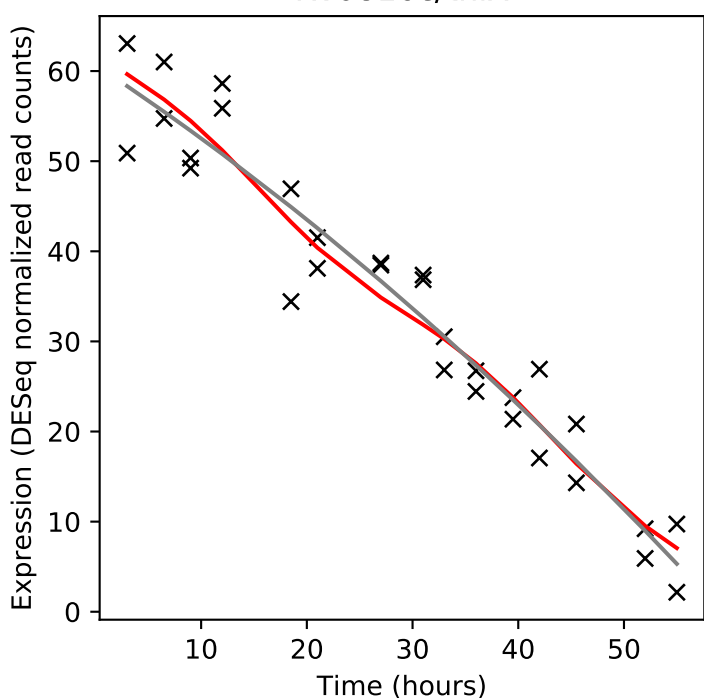
Rv0814c/sseC2



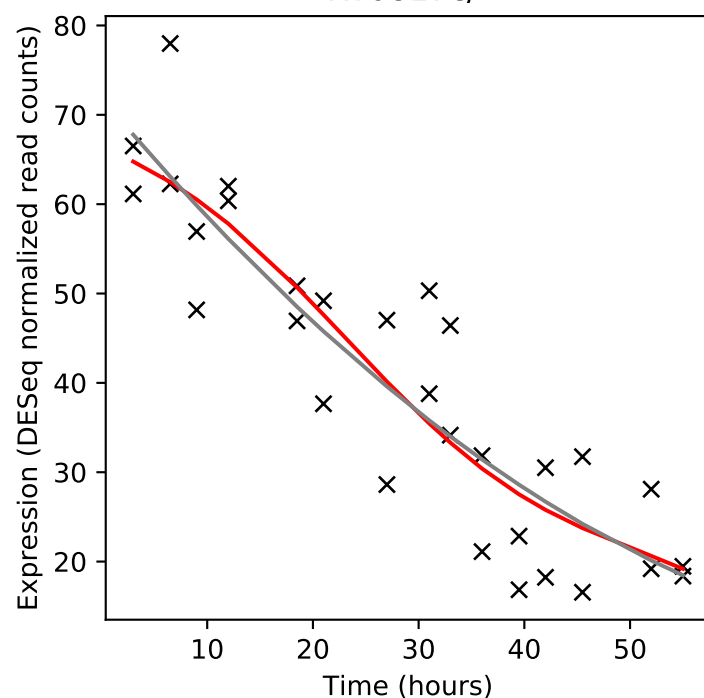
Rv0815c/cysA2



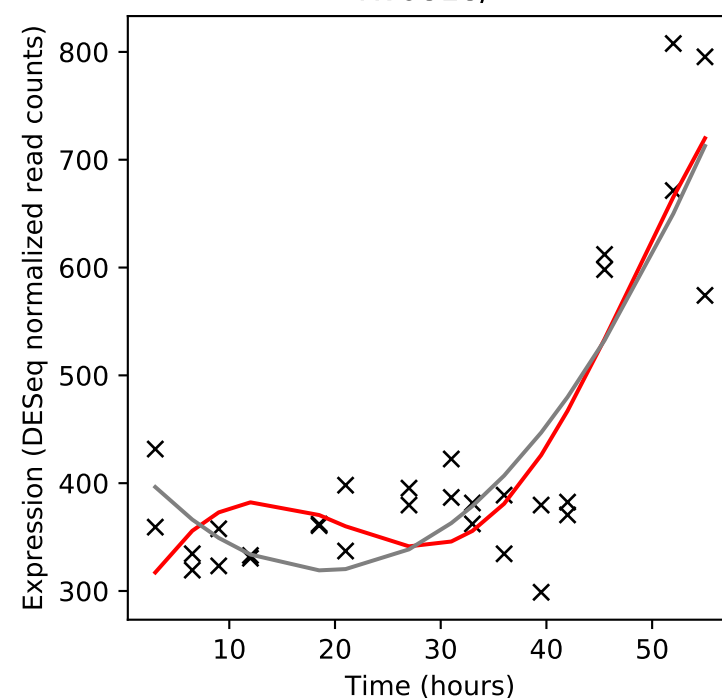
Rv0816c/thiX



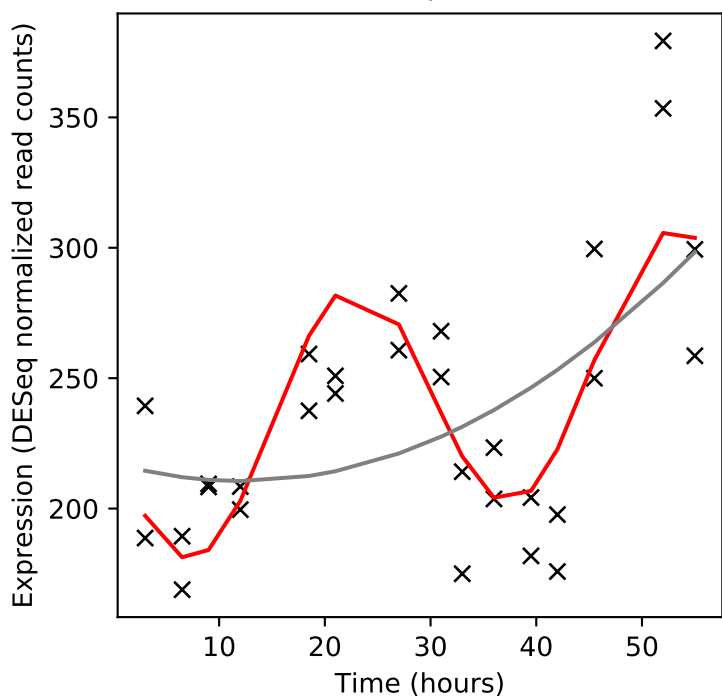
Rv0817c/-



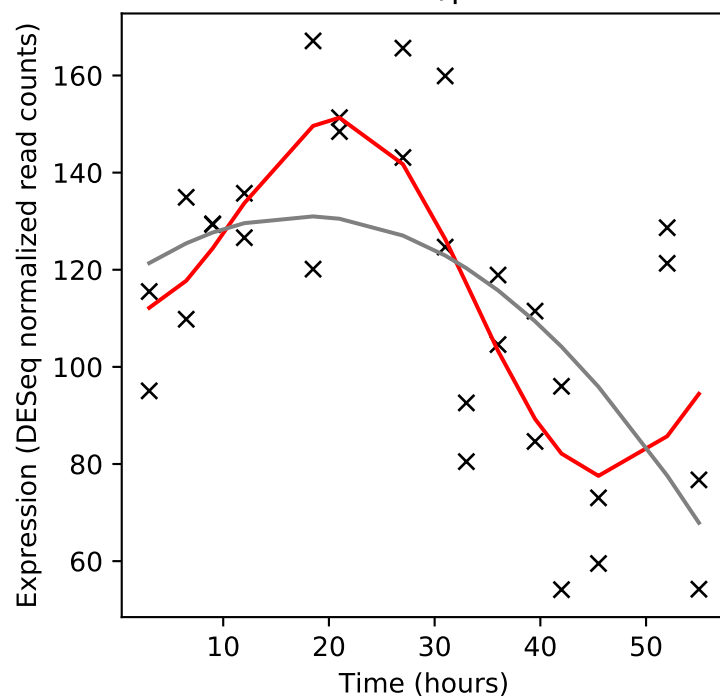
Rv0818/-



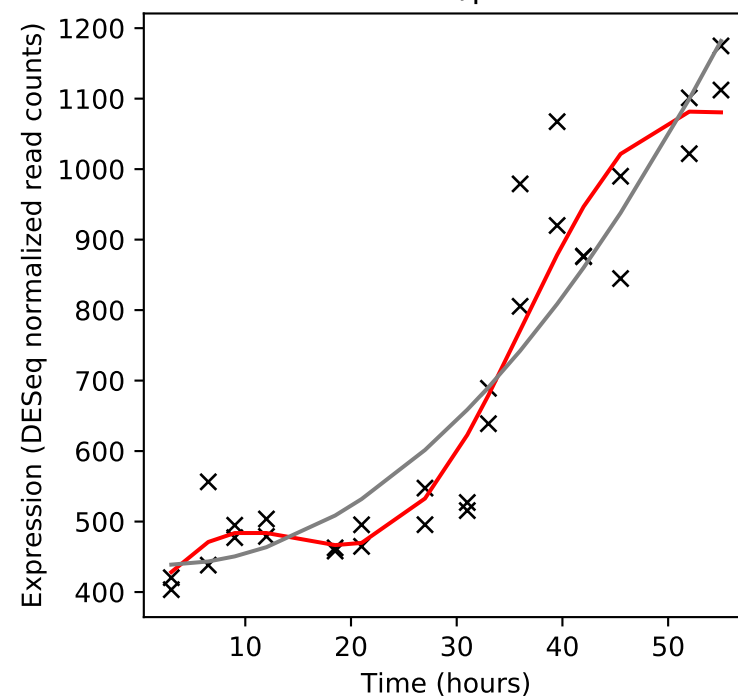
Rv0819/mshD



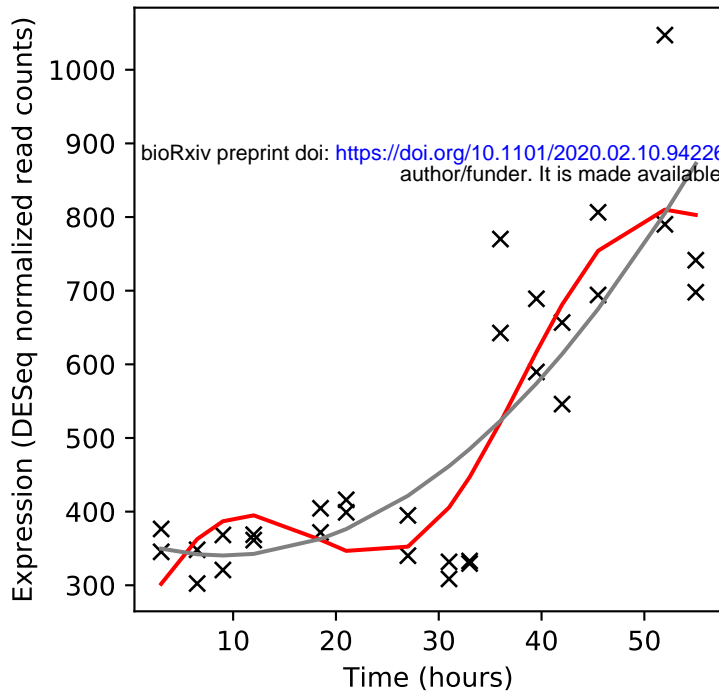
Rv0820/phoT



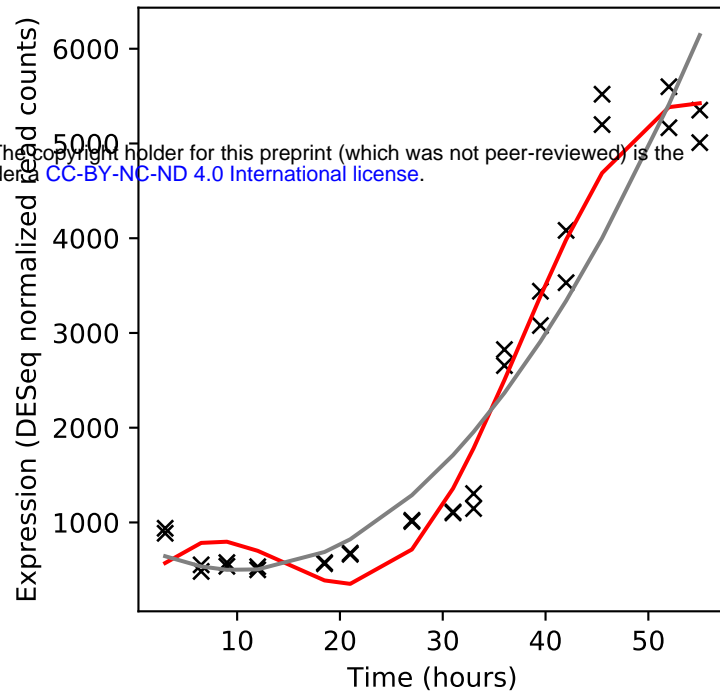
Rv0821c/phoY2



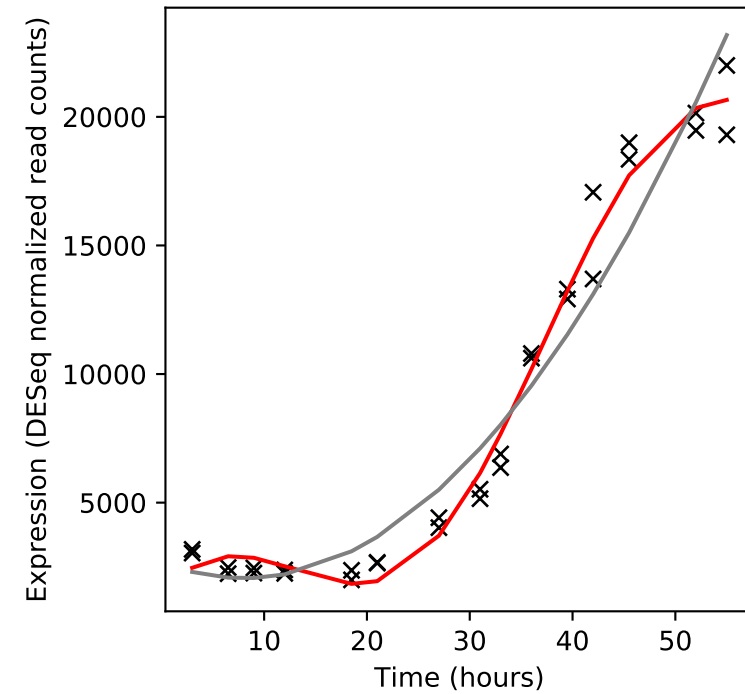
Rv0822c/-



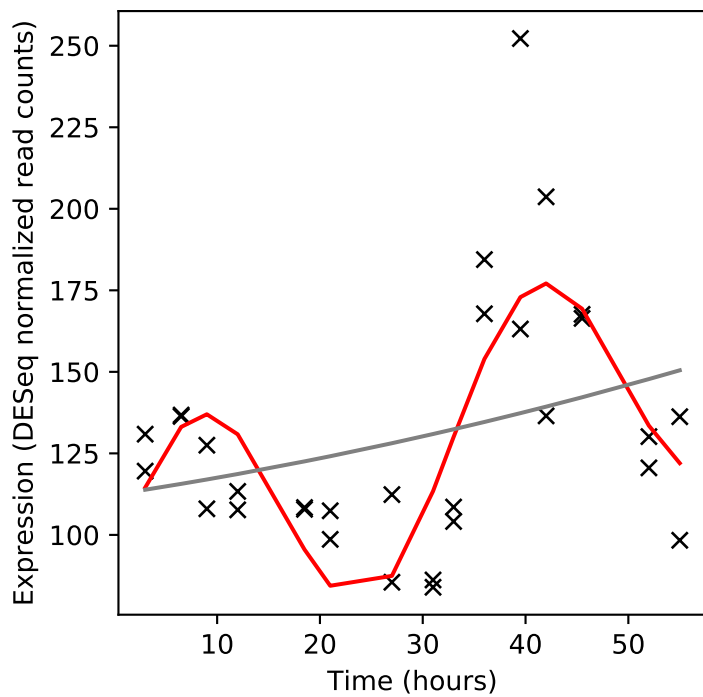
Rv0823c/-



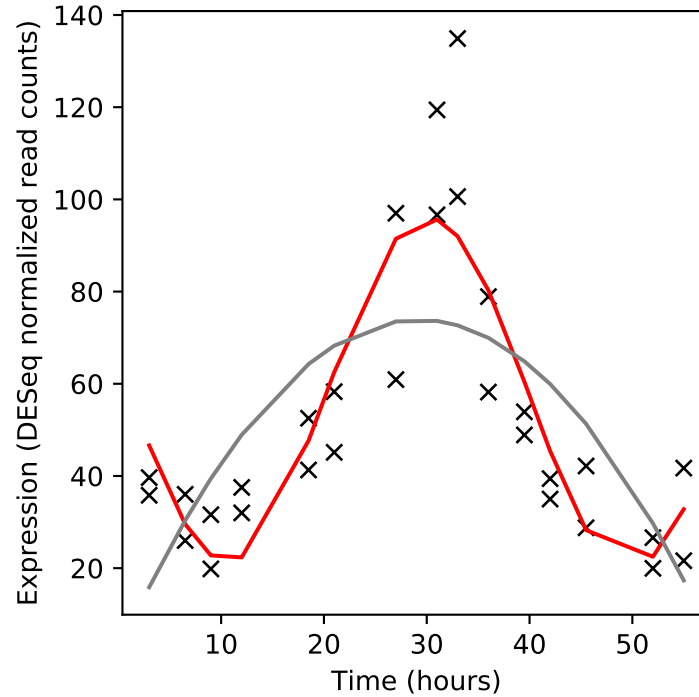
Rv0824c/desA1



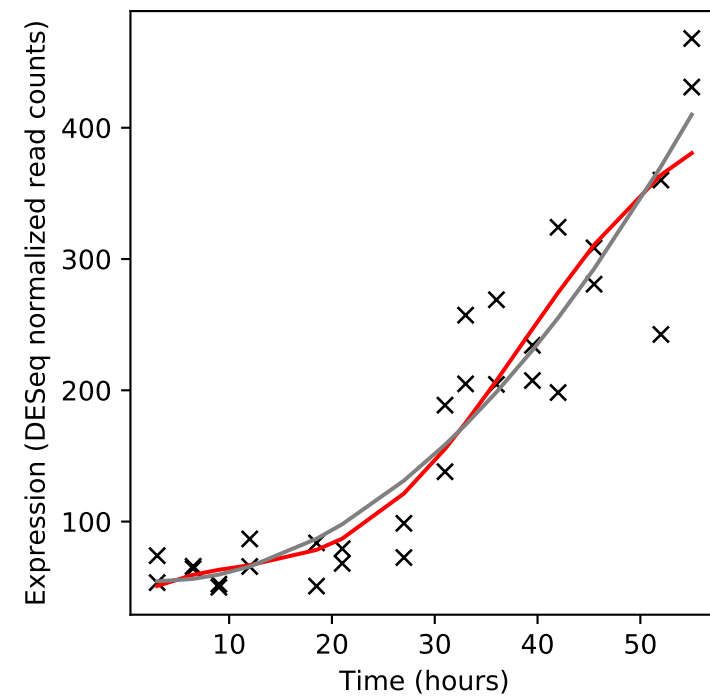
Rv0825c/-



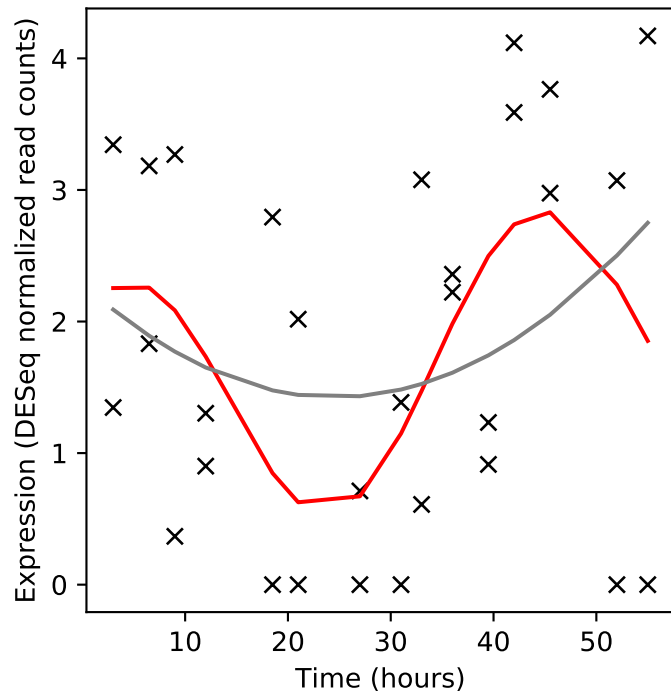
Rv0826c/-



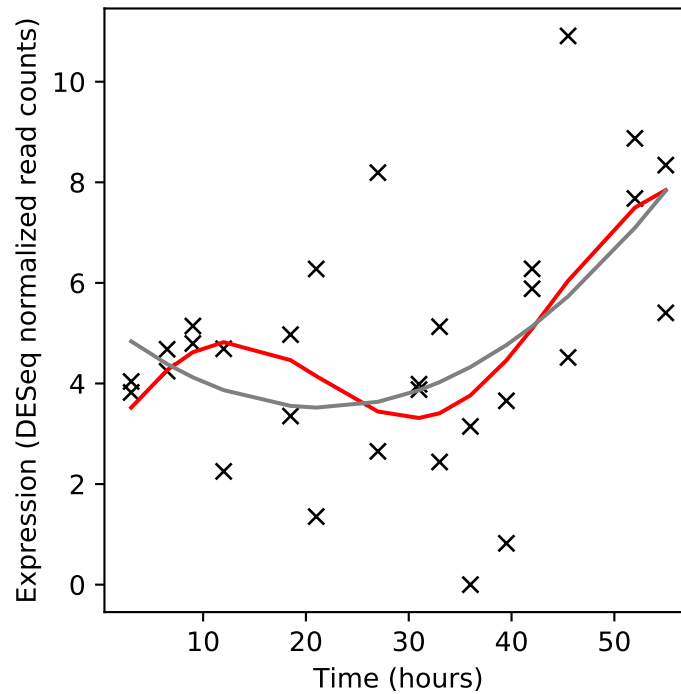
Rv0827c/kmtR



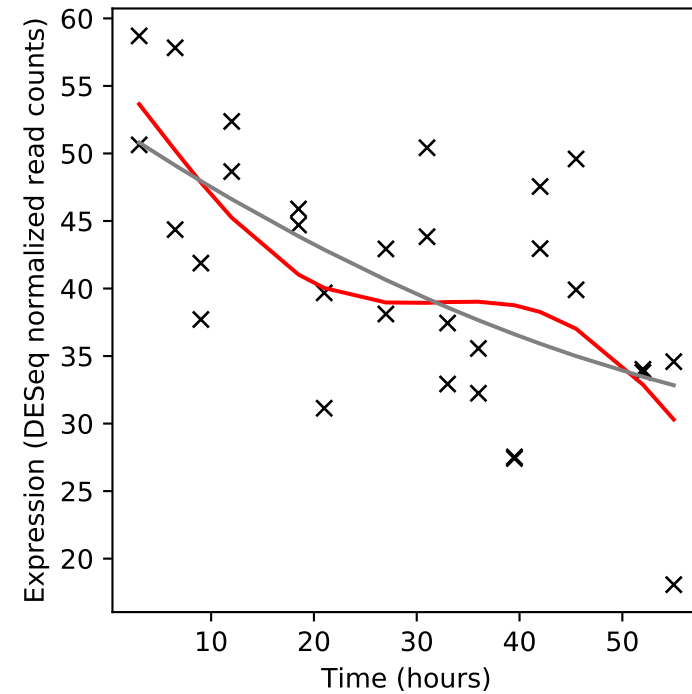
Rv0828c/-



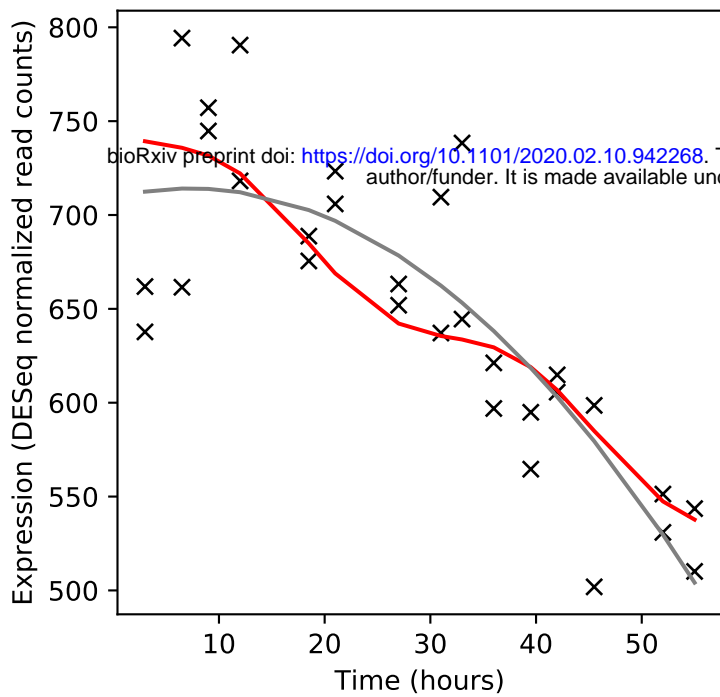
Rv0829c/-



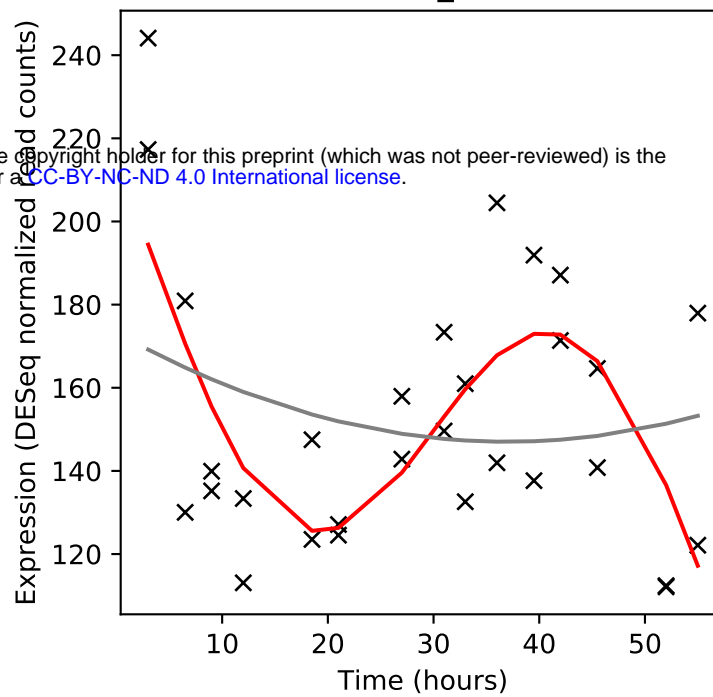
Rv0830c/-



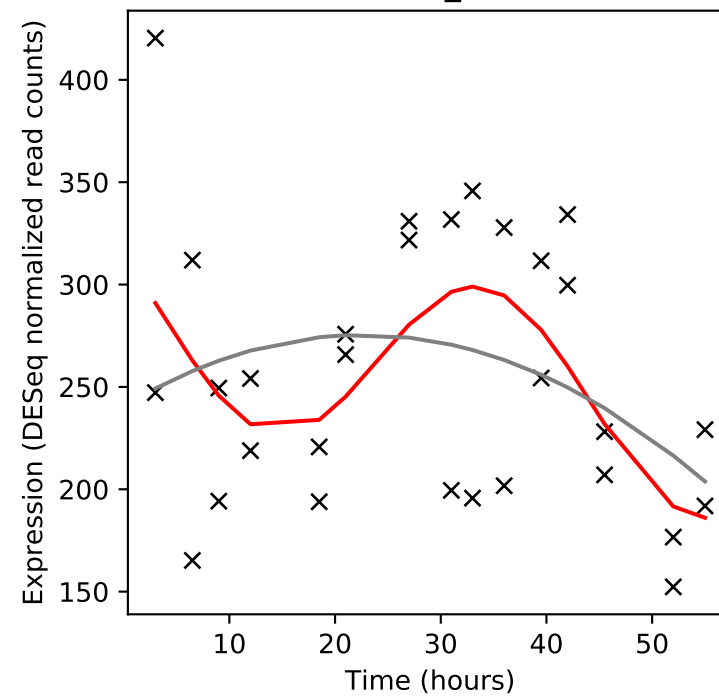
Rv0831c/-



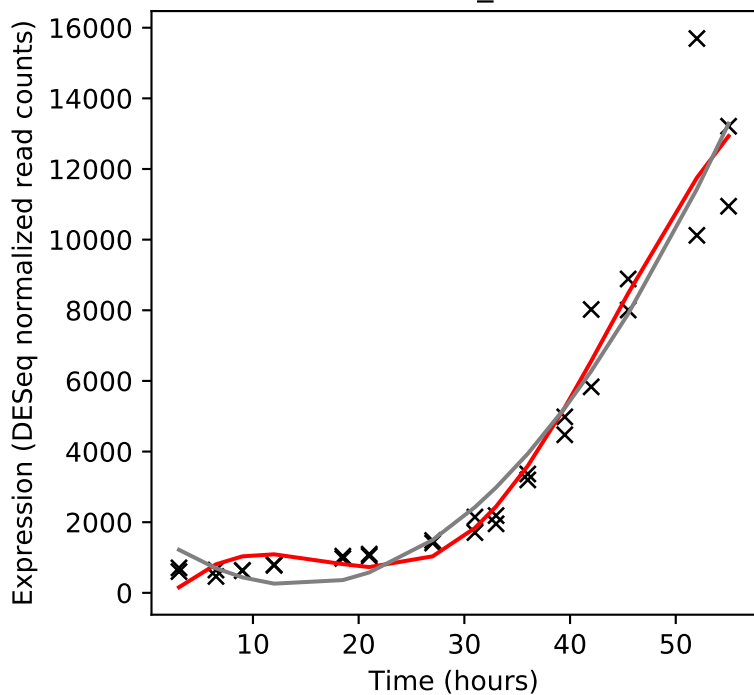
Rv0832/PE_PGRS12



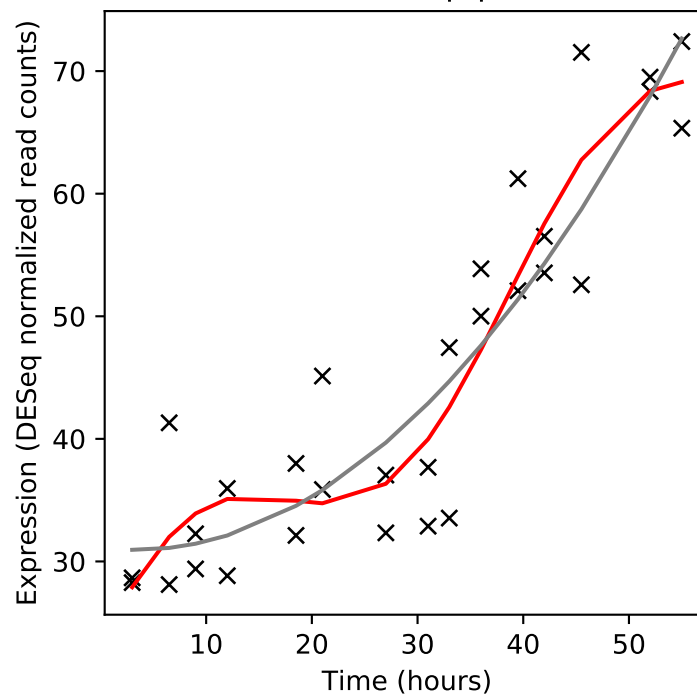
Rv0833/PE_PGRS13



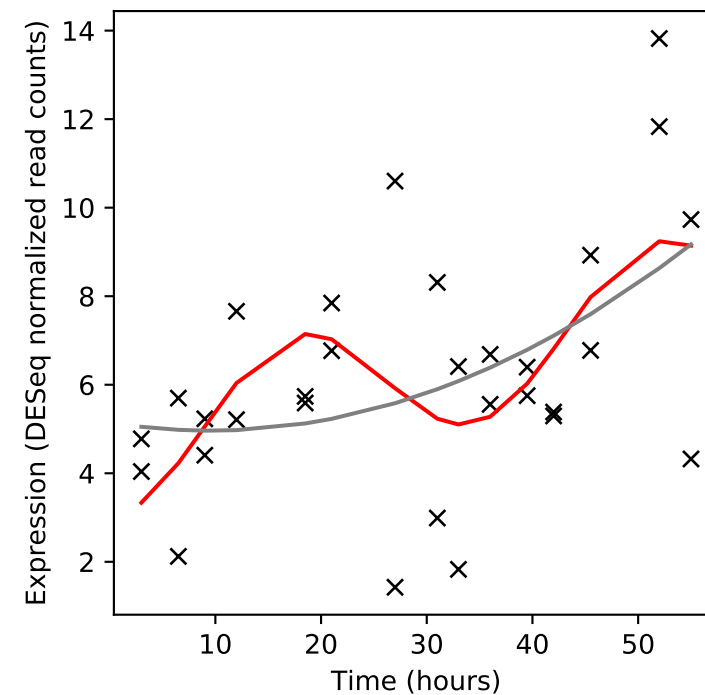
Rv0834c/PE_PGRS14



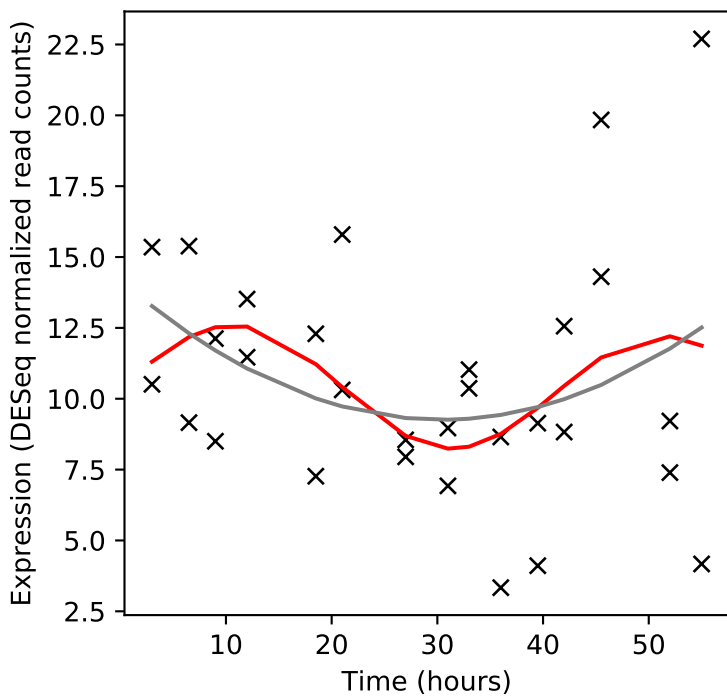
Rv0835/lpqQ



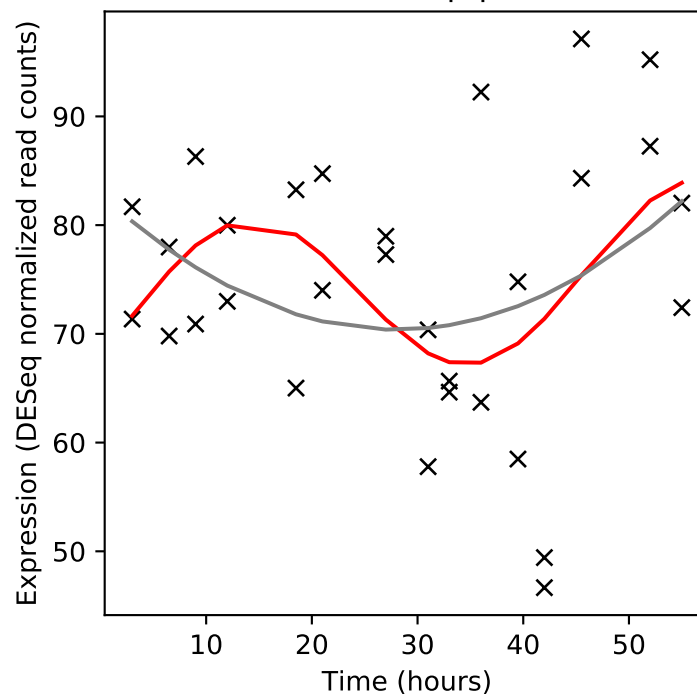
Rv0836c/-



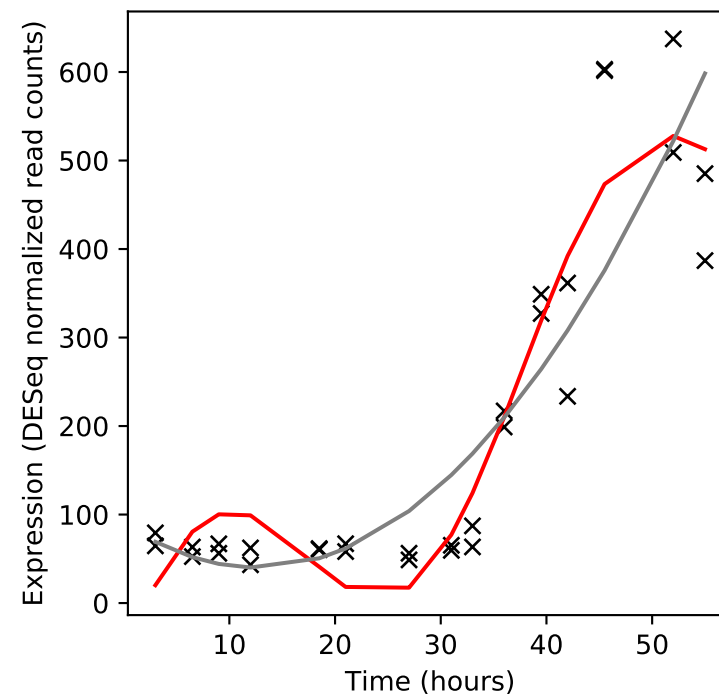
Rv0837c/-



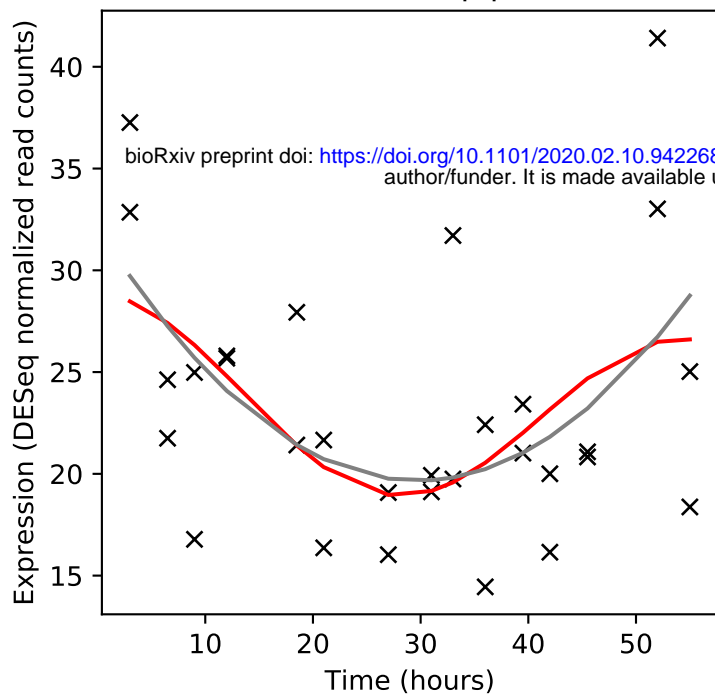
Rv0838/lpqR



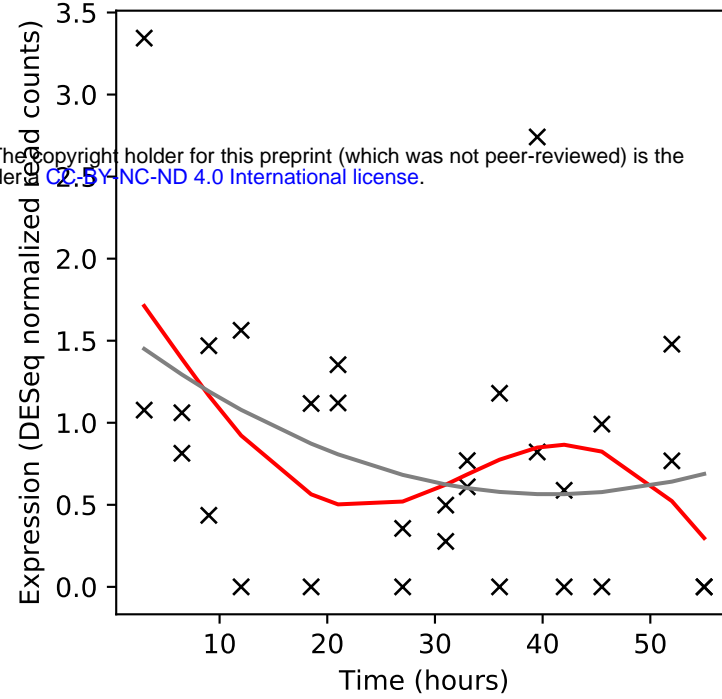
Rv0839/-



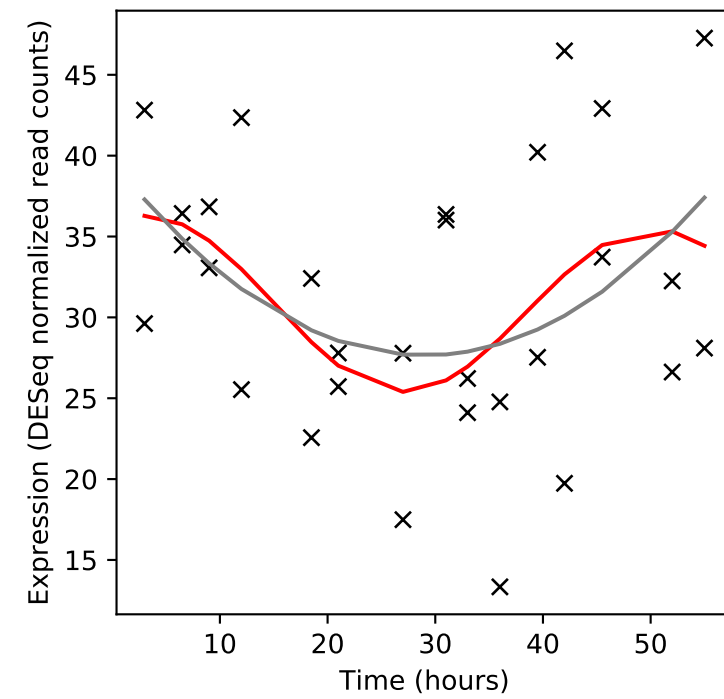
Rv0840c/pip



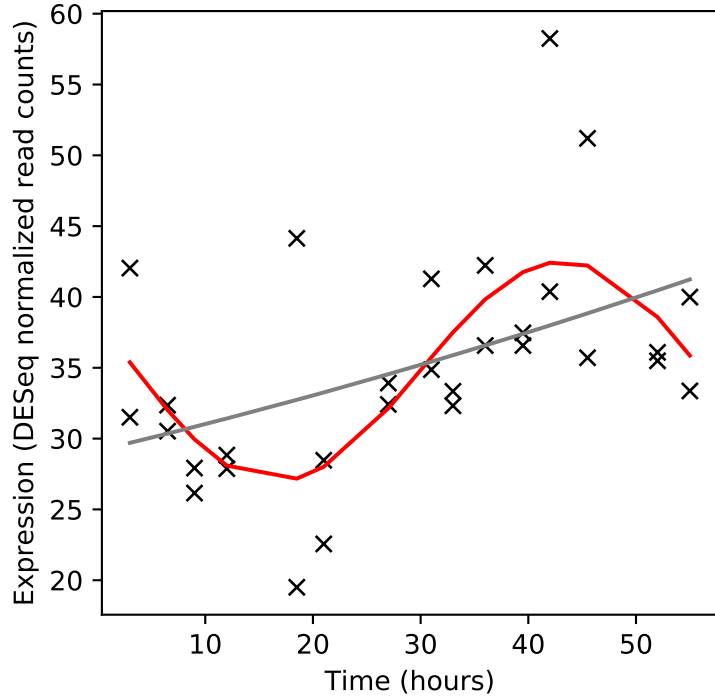
Rv0841/-



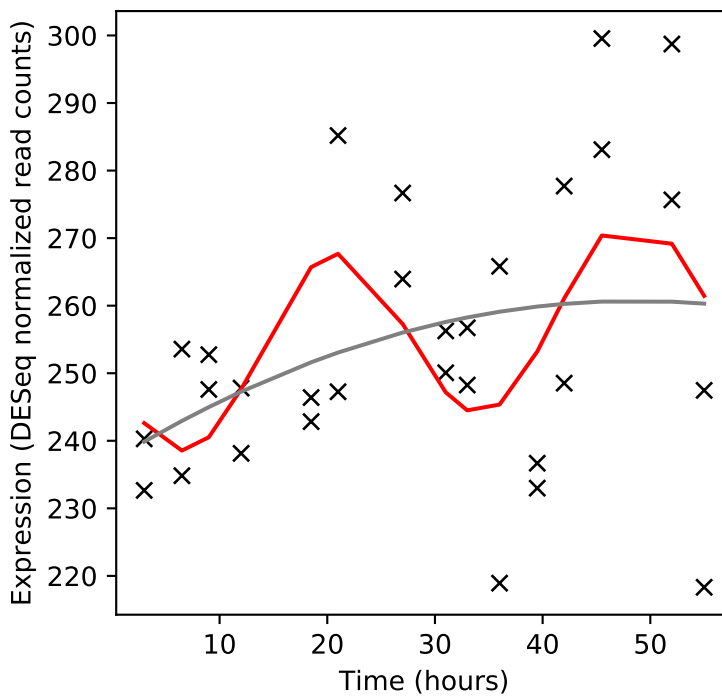
Rv0842/-



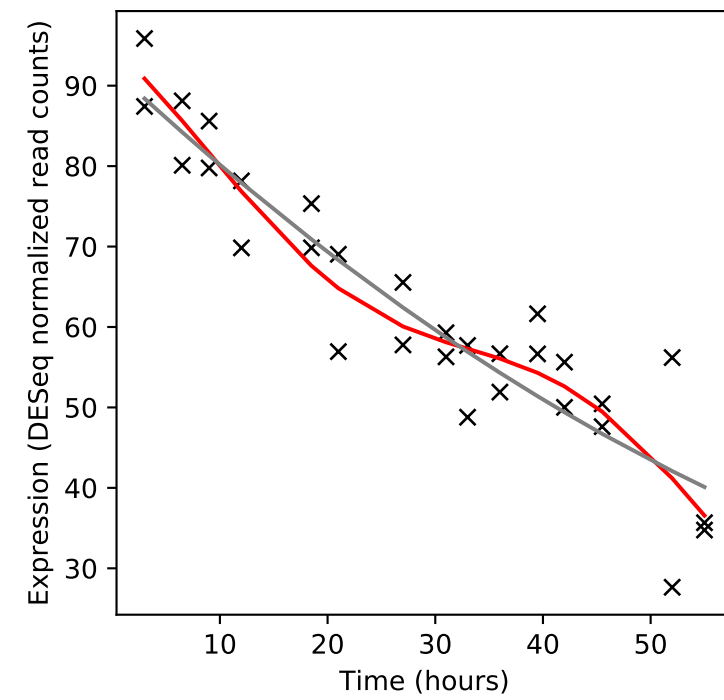
Rv0843/-



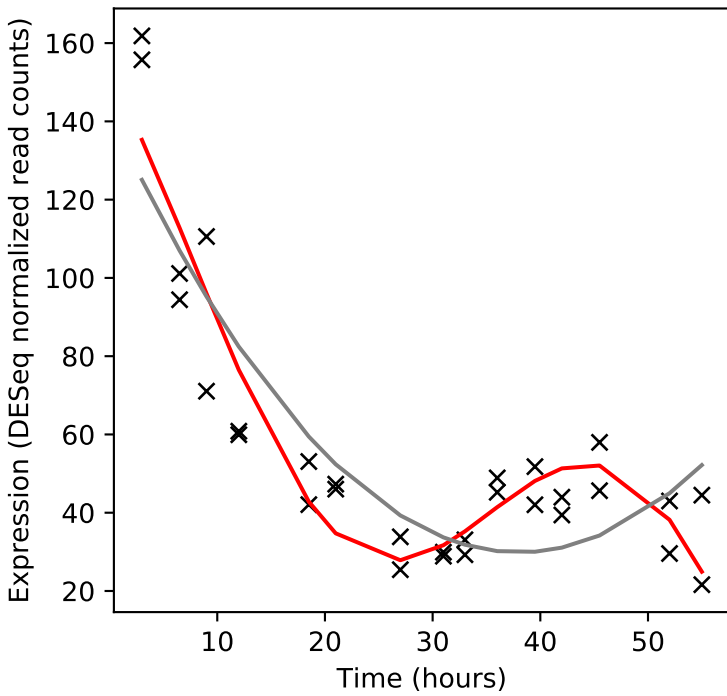
Rv0844c/narL



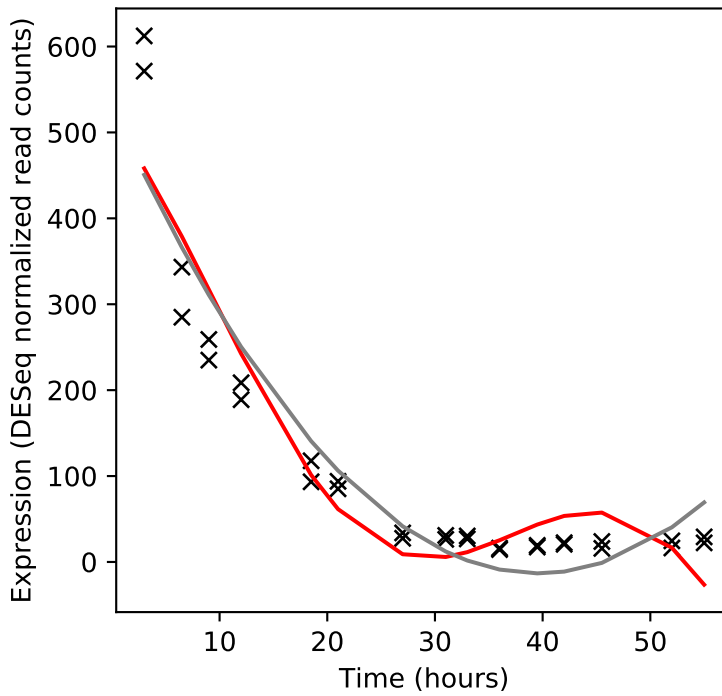
Rv0845/-



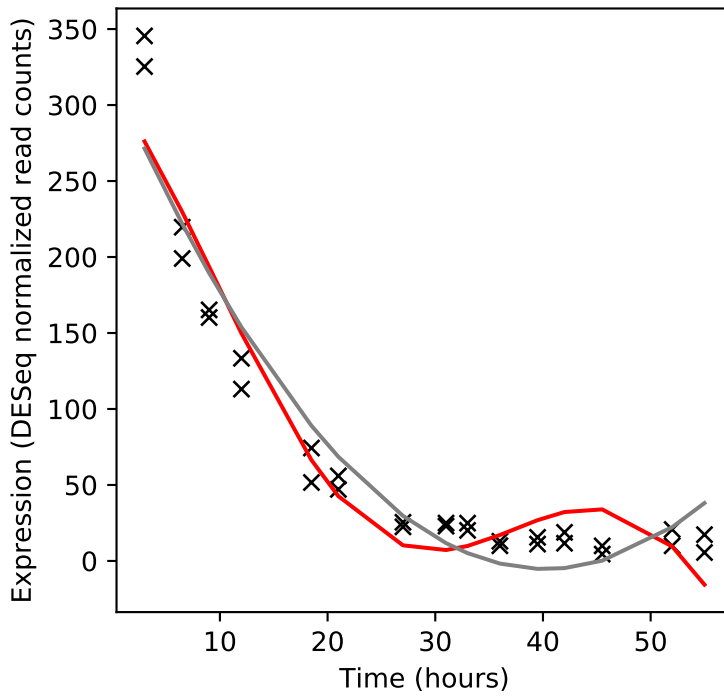
Rv0846c/-



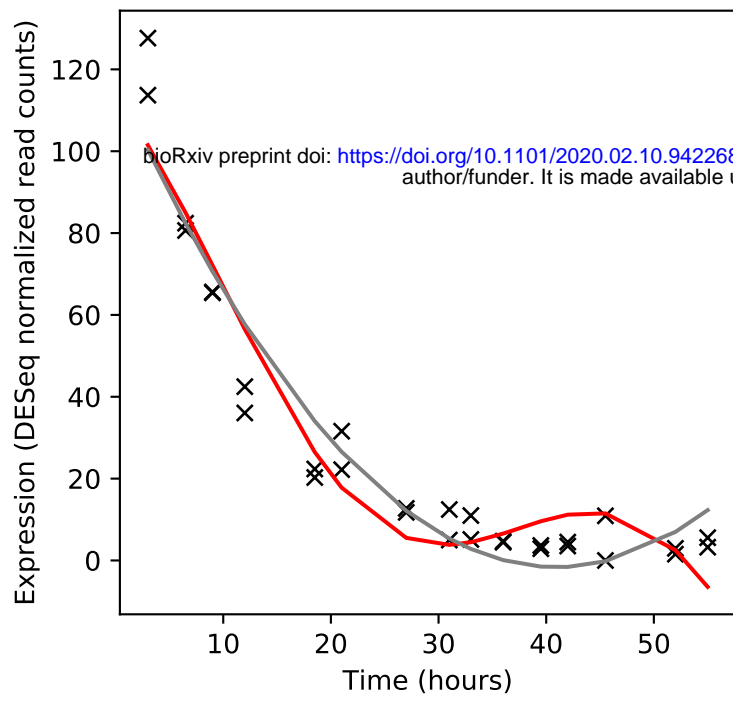
Rv0847/lpqS



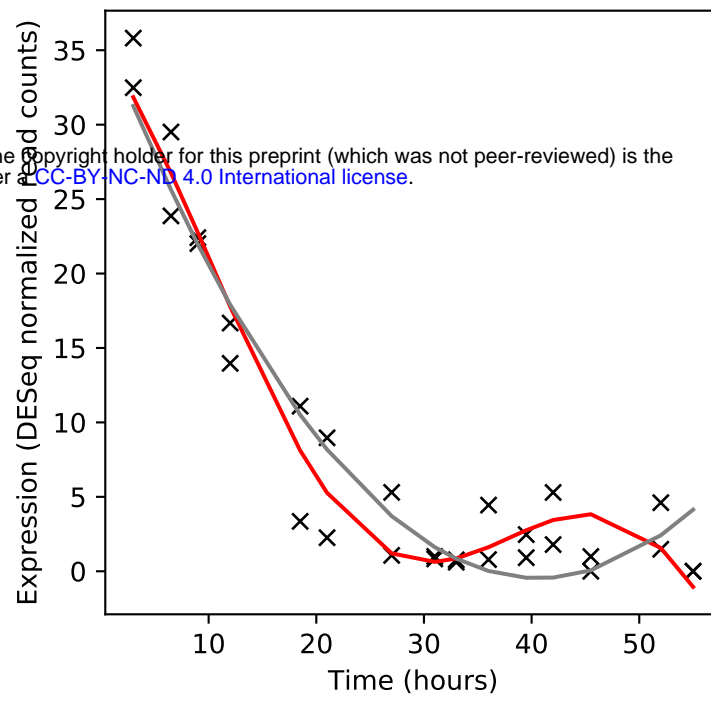
Rv0848/cysK2



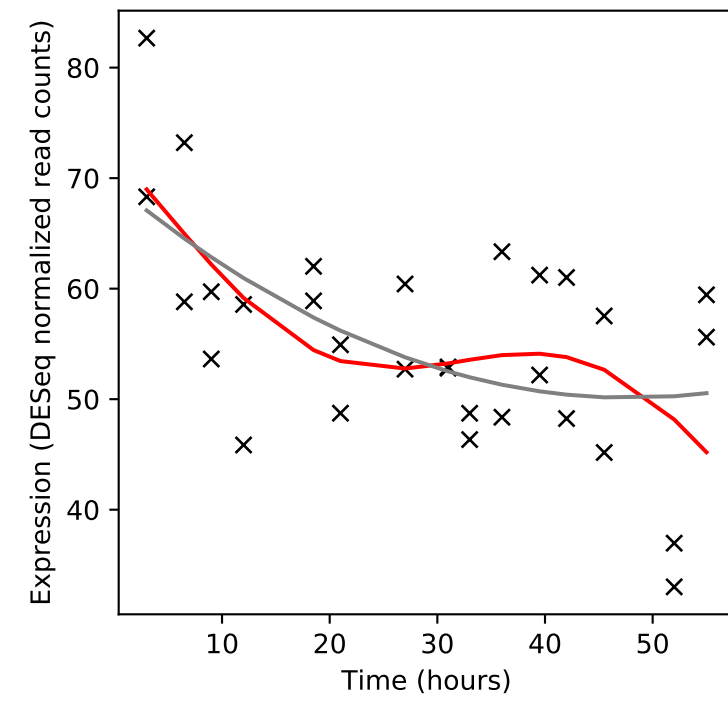
Rv0849/-



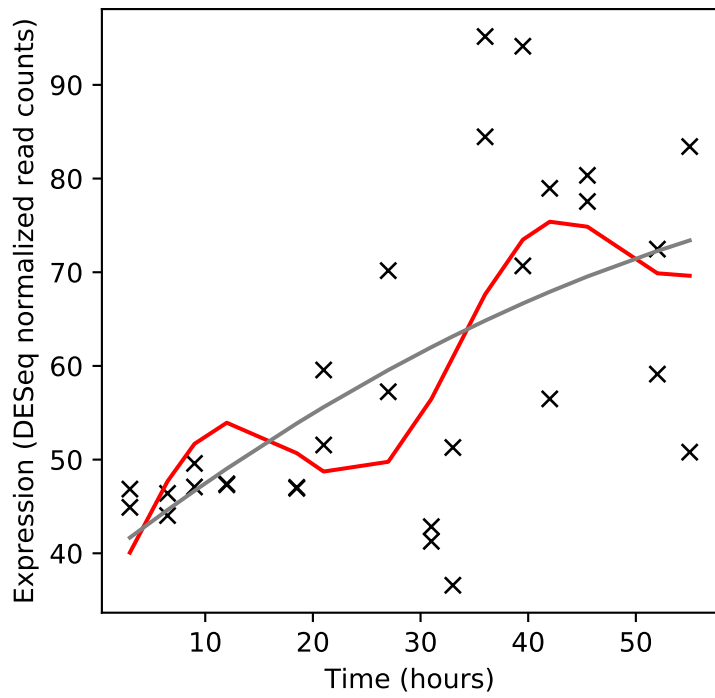
Rv0850/-



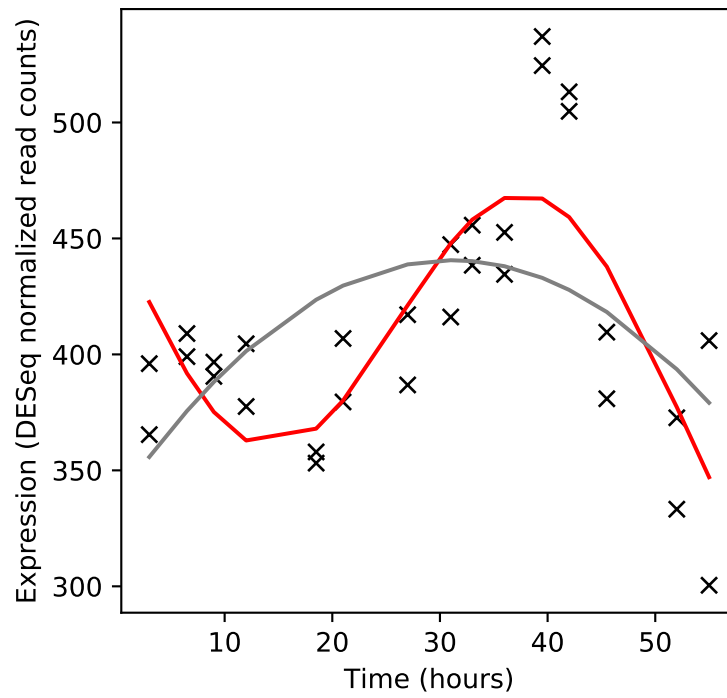
Rv0851c/-



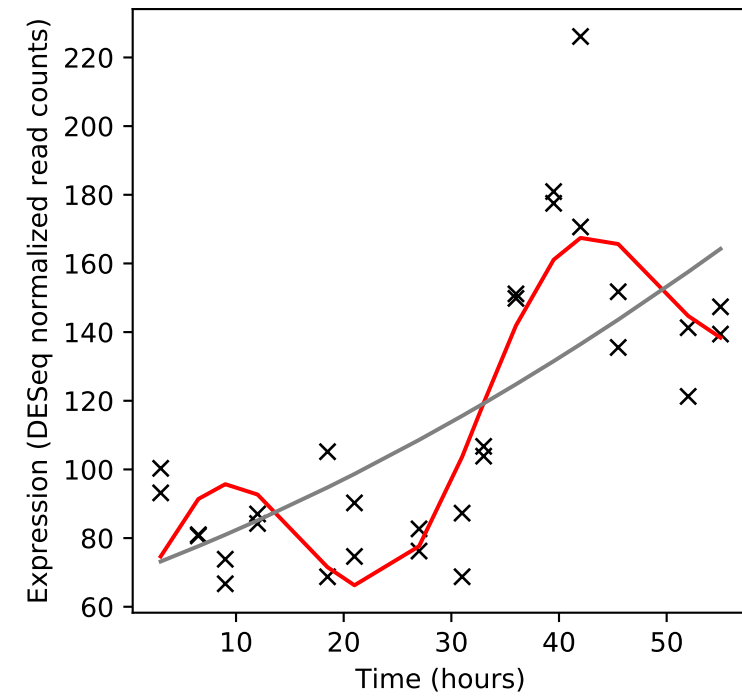
Rv0852/fadD16



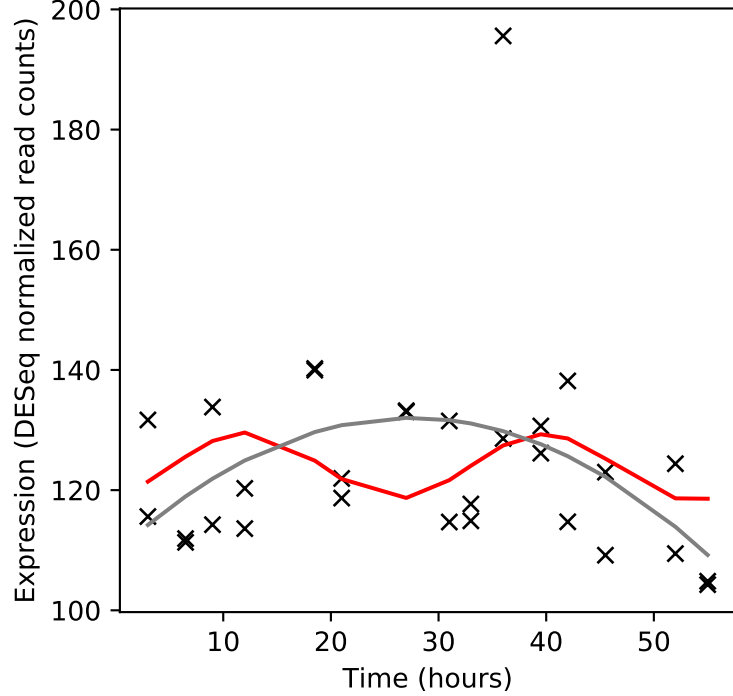
Rv0853c/pdc



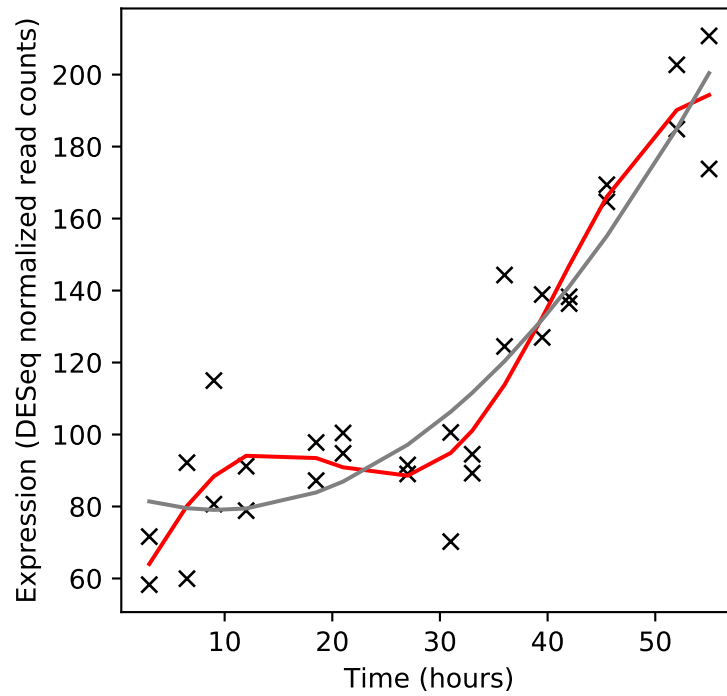
Rv0854/-



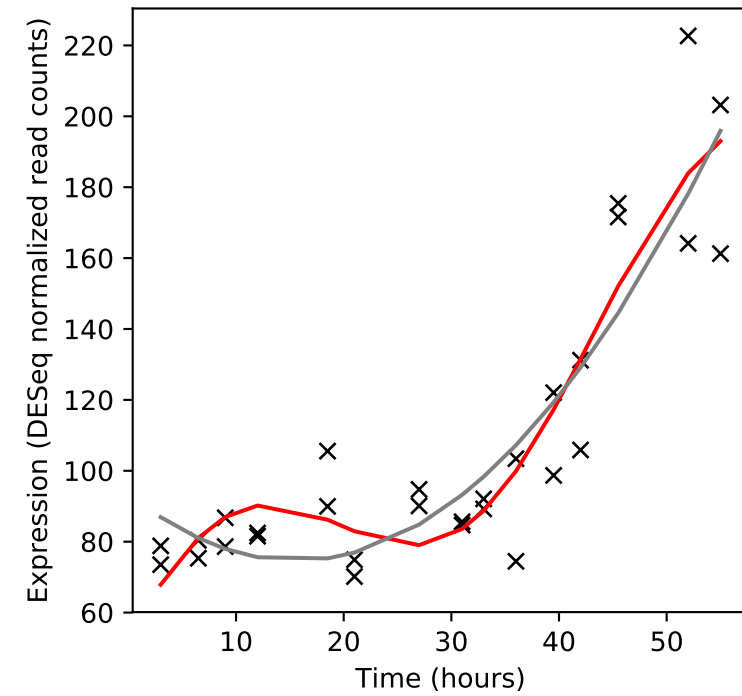
Rv0855/far



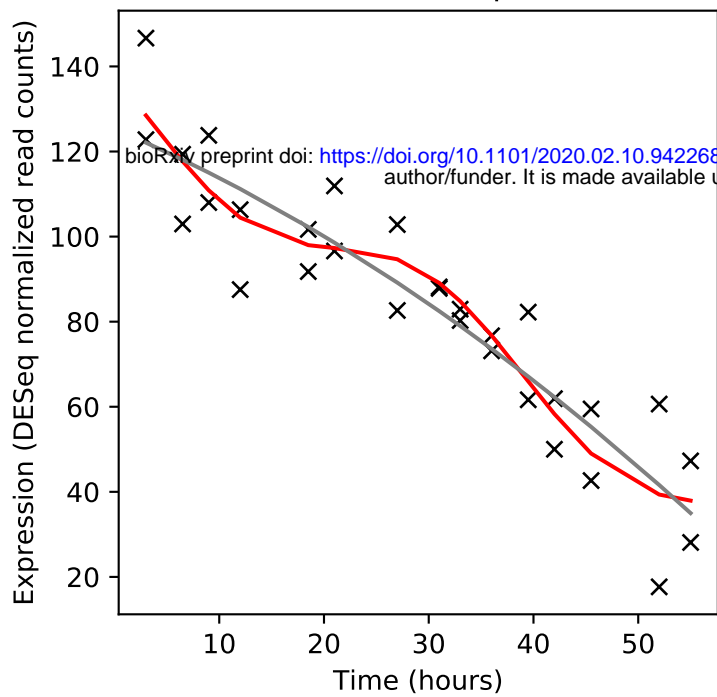
Rv0856/-



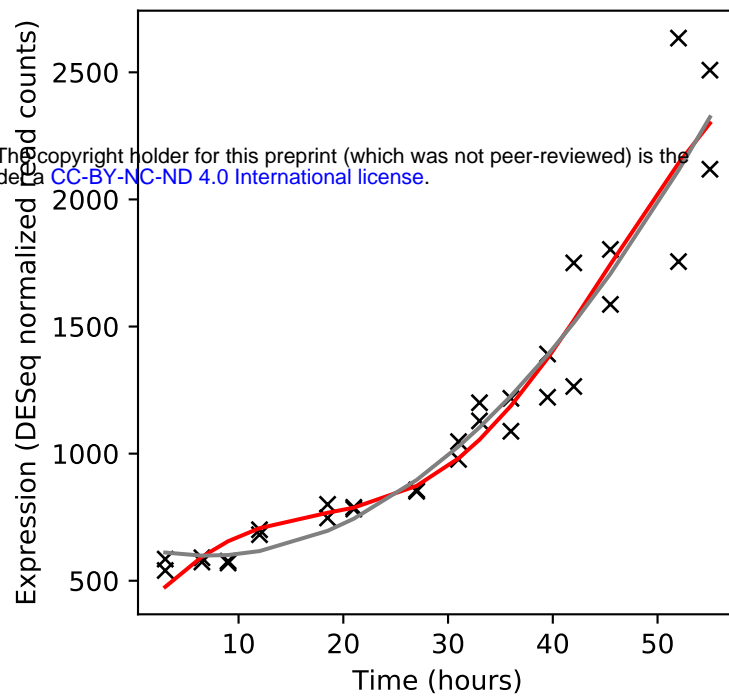
Rv0857/-



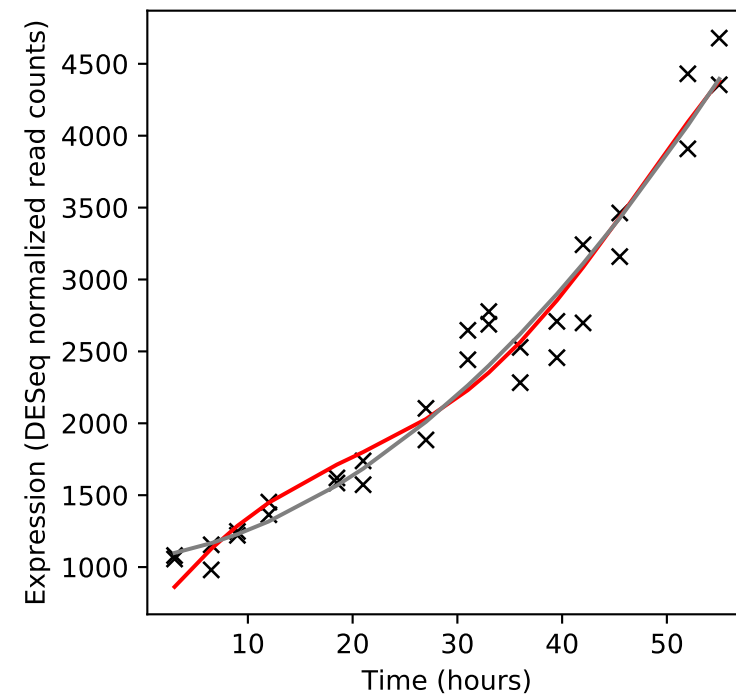
Rv0858c/dapC



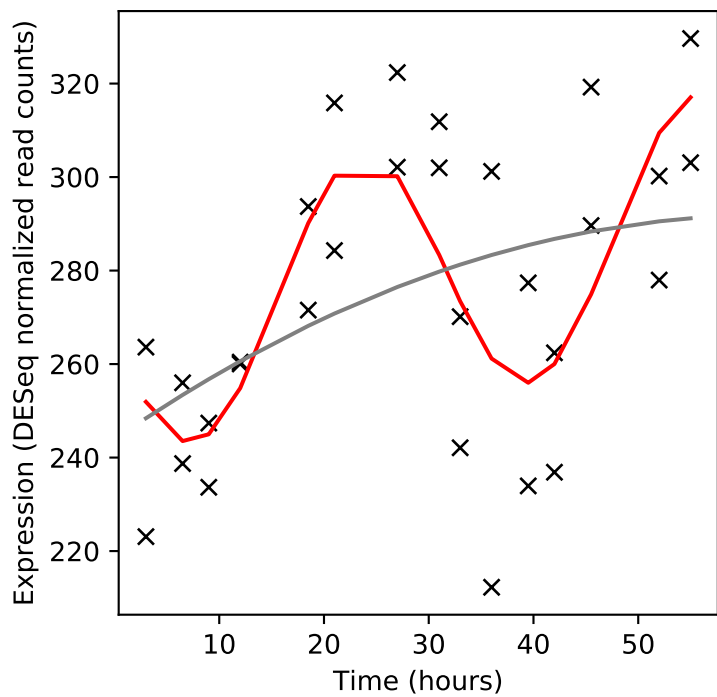
Rv0859/fadA



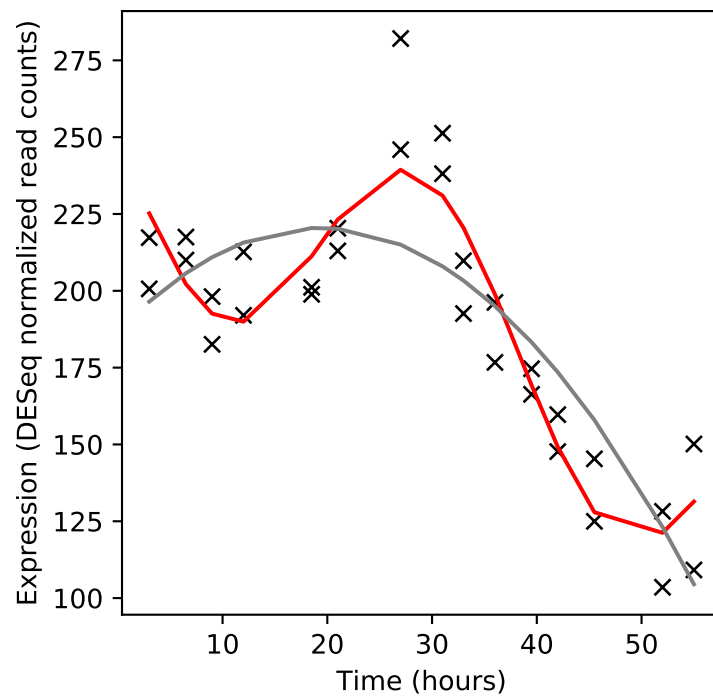
Rv0860/fadB



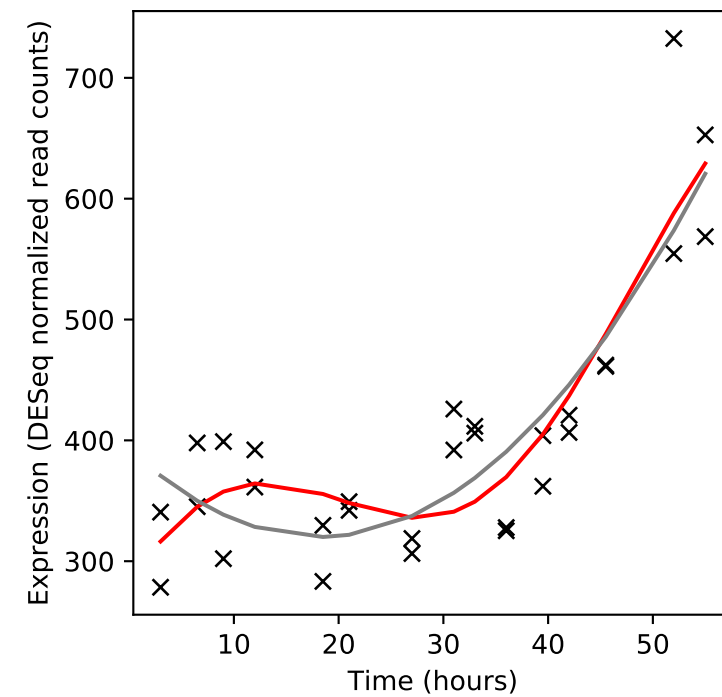
Rv0861c/ercc3



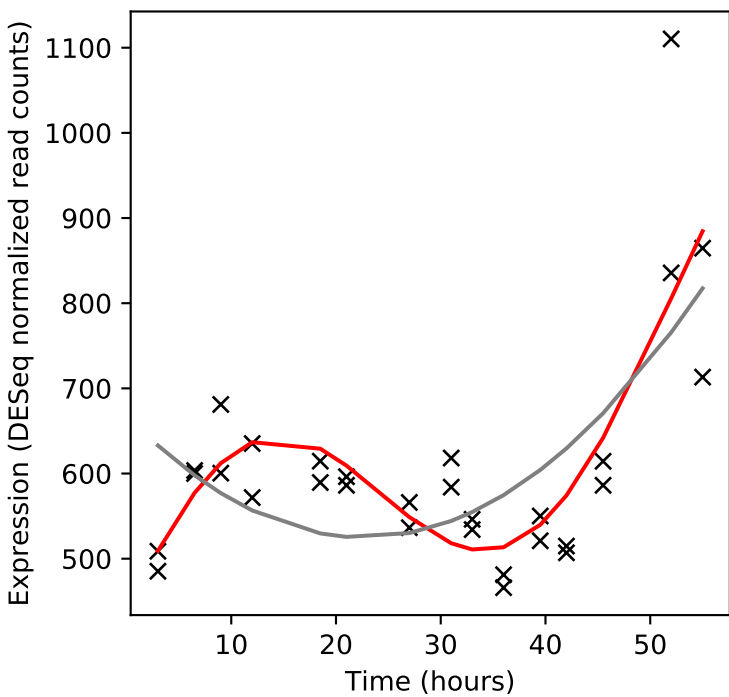
Rv0862c/-



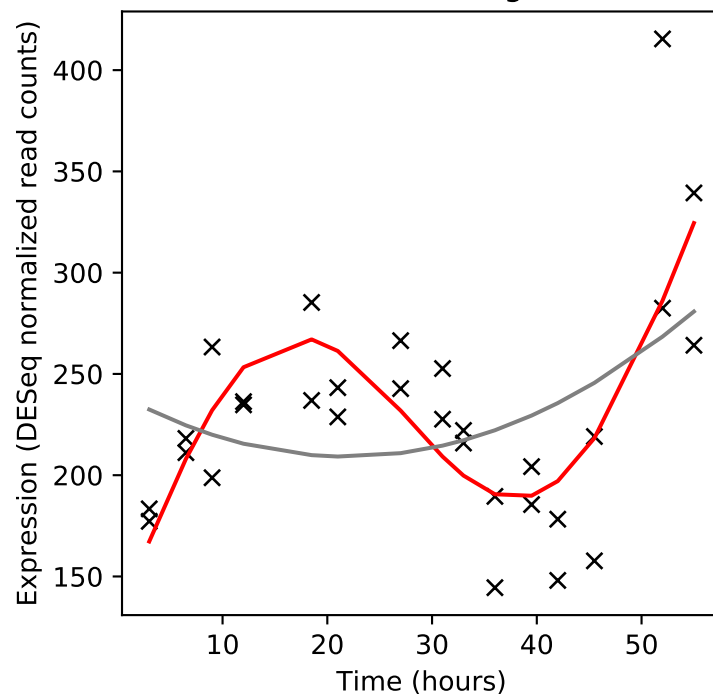
Rv0863/-



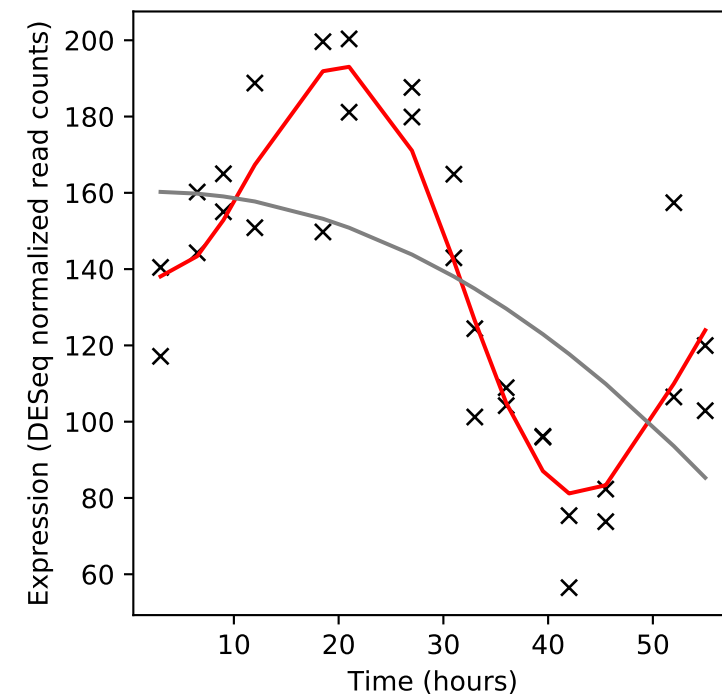
Rv0864/moaC2



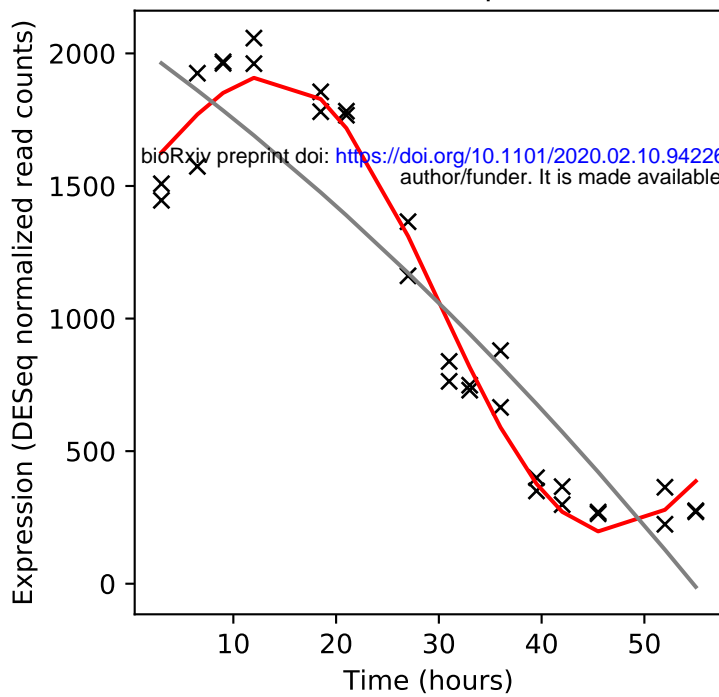
Rv0865/mog



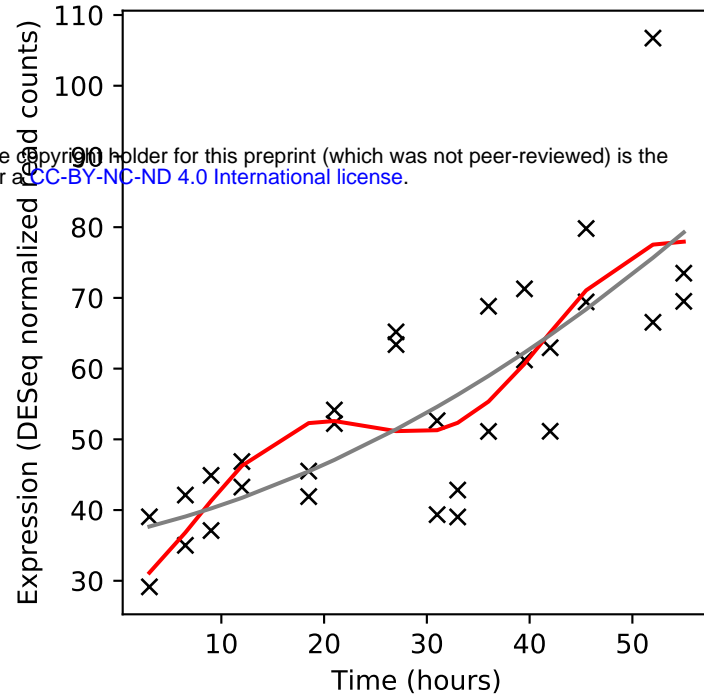
Rv0866/moaE2



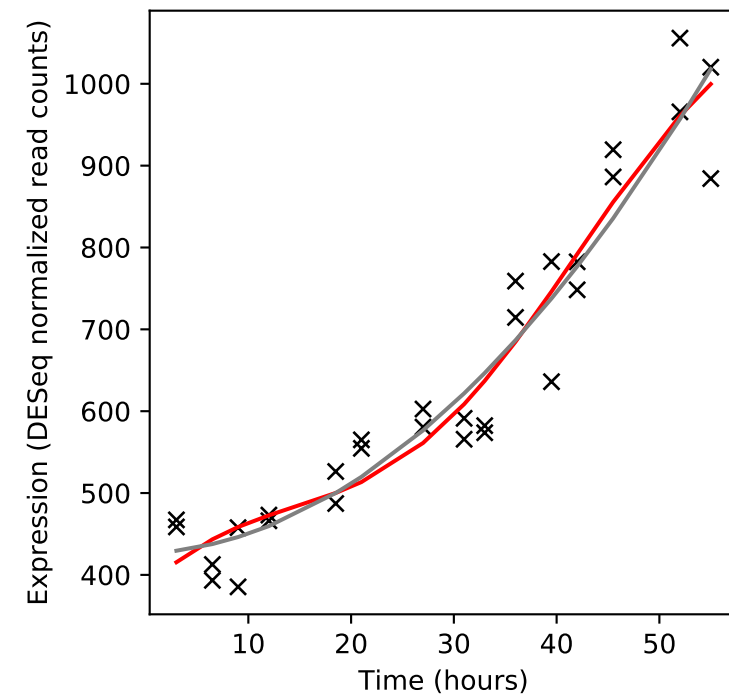
Rv0867c/rpfA



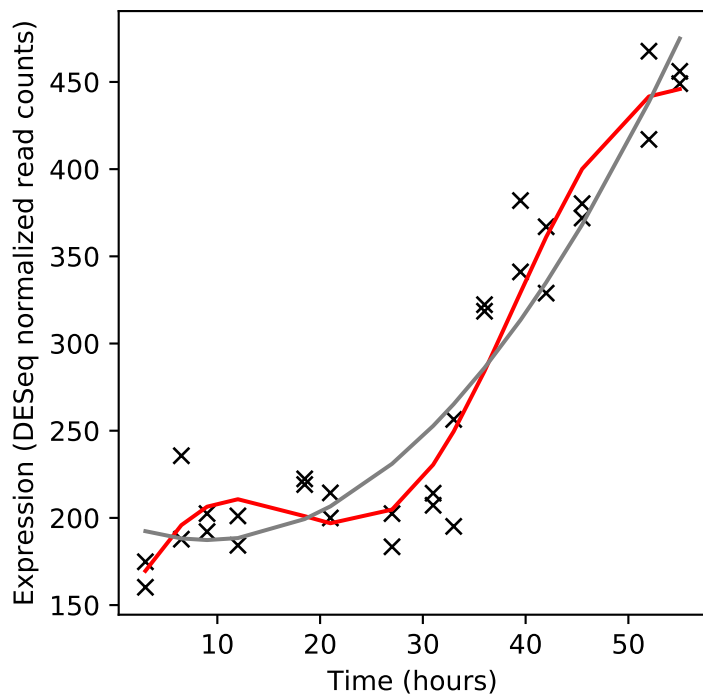
Rv0868c/moaD2



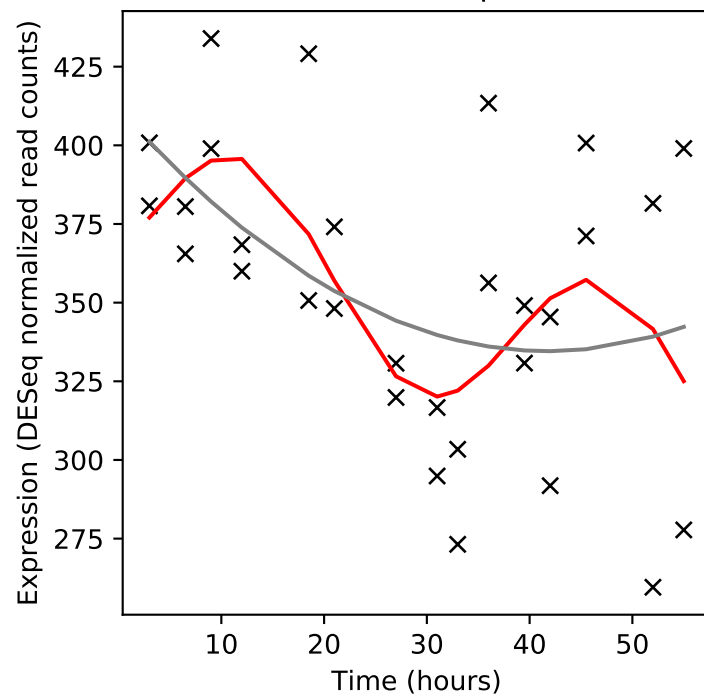
Rv0869c/moaA2



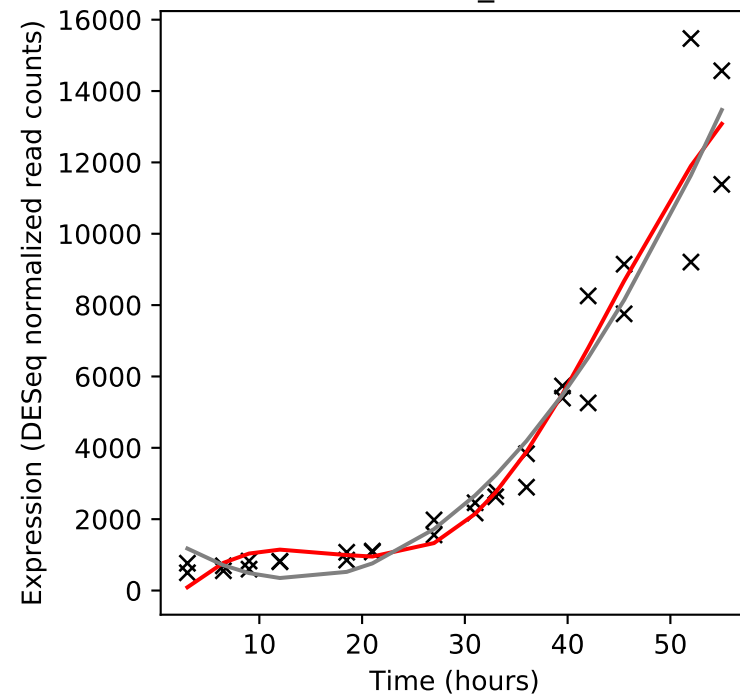
Rv0870c/-



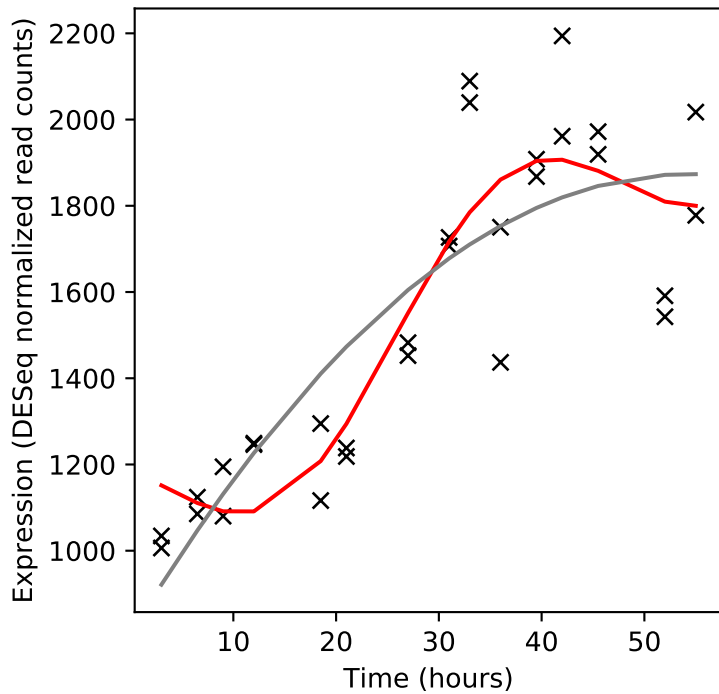
Rv0871c/cspB



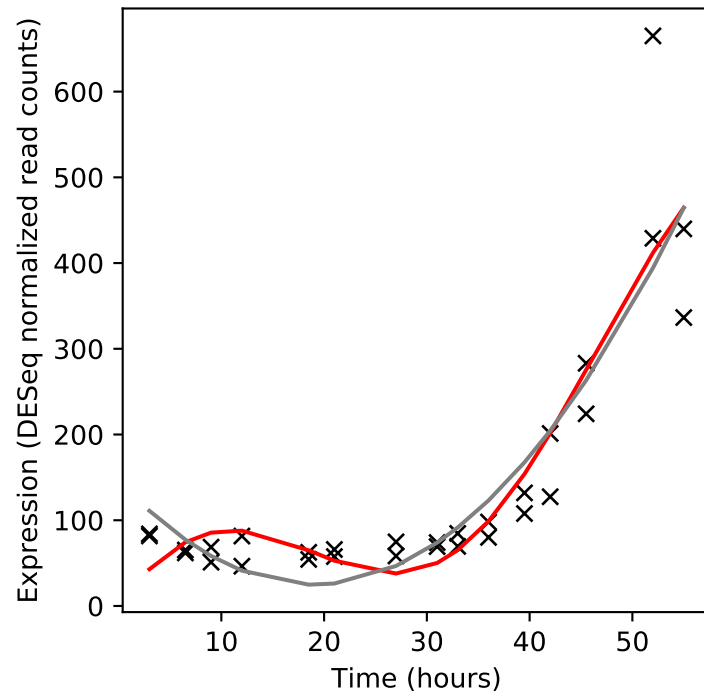
Rv0872c/PE_PGRS15



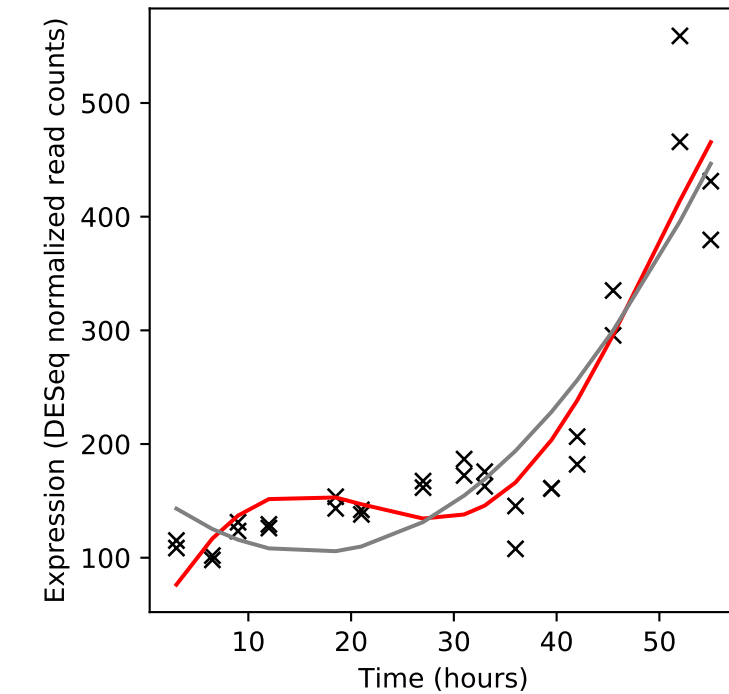
Rv0873/fadE10



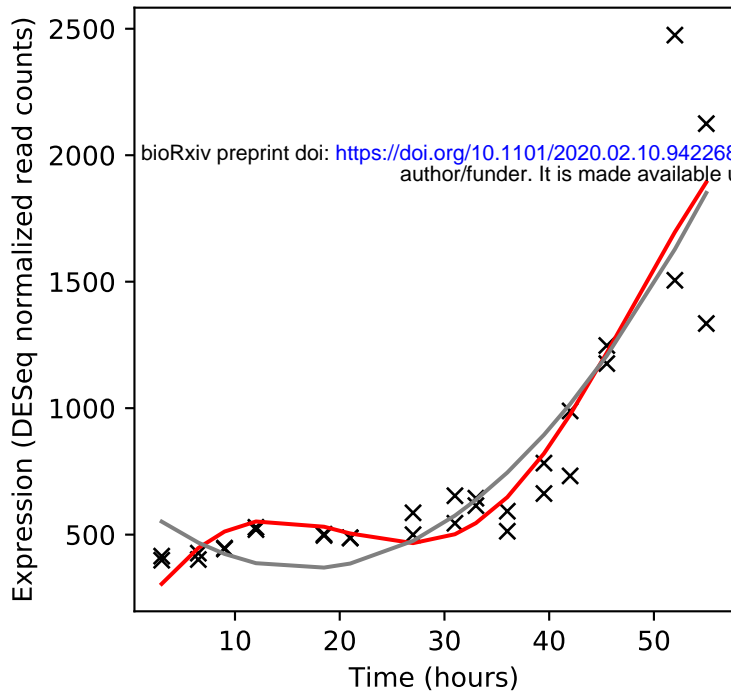
Rv0874c/-



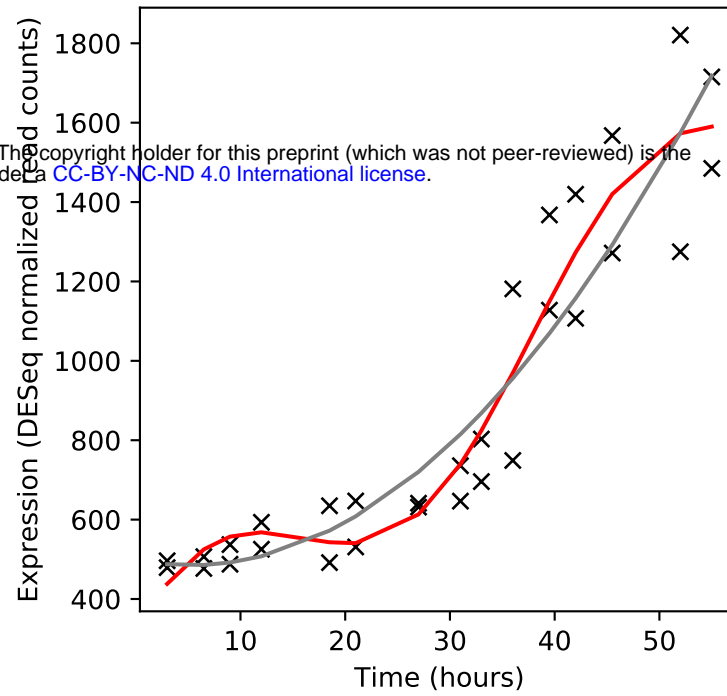
Rv0875c/-



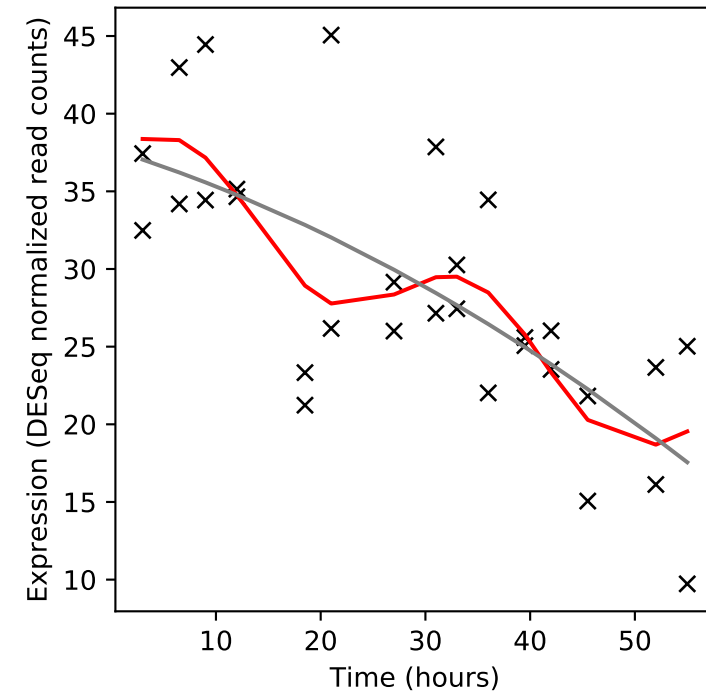
Rv0876c/-



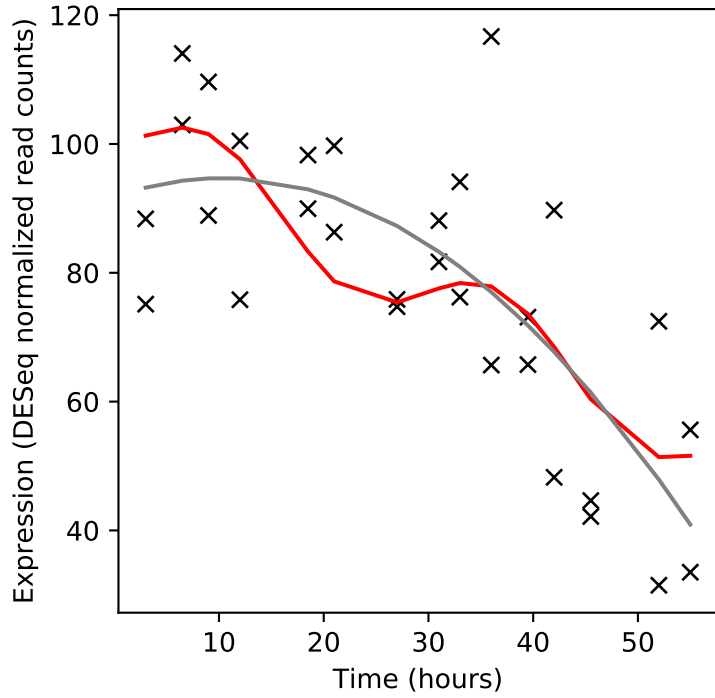
Rv0877/-



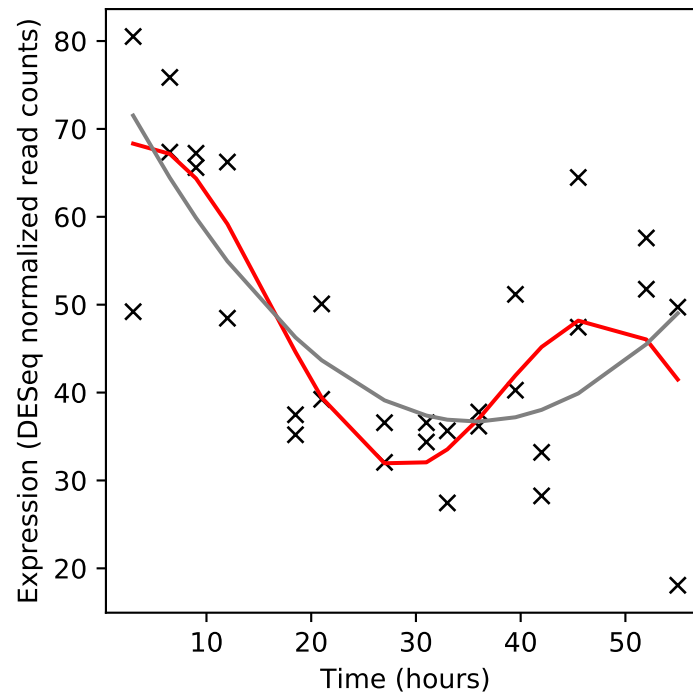
Rv0878c/PPE13



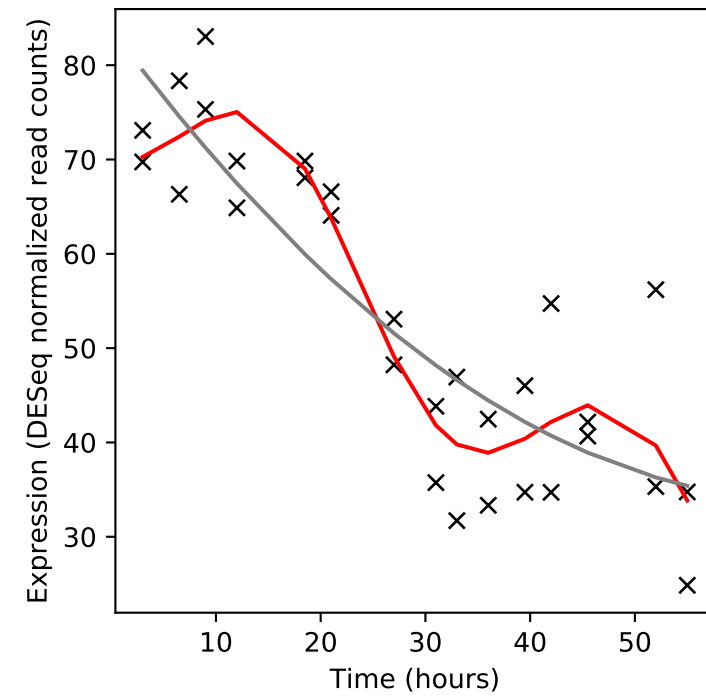
Rv0879c/-



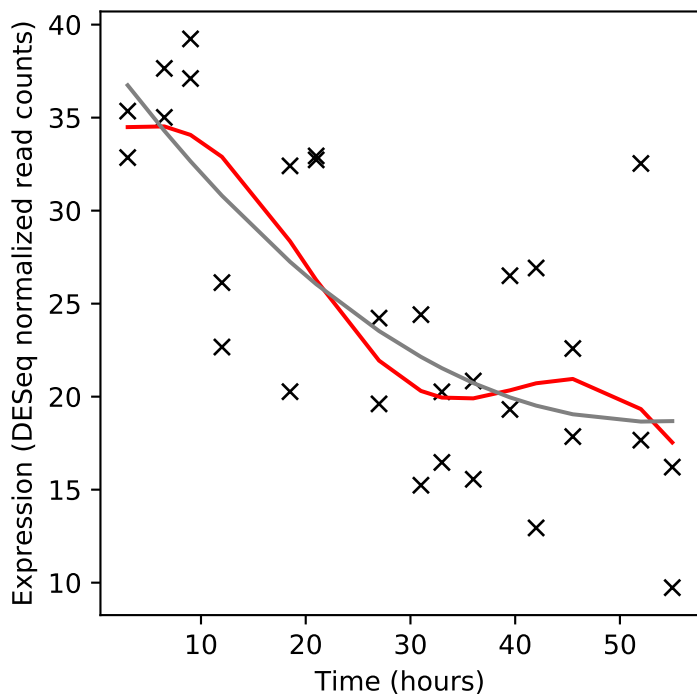
Rv0880/-



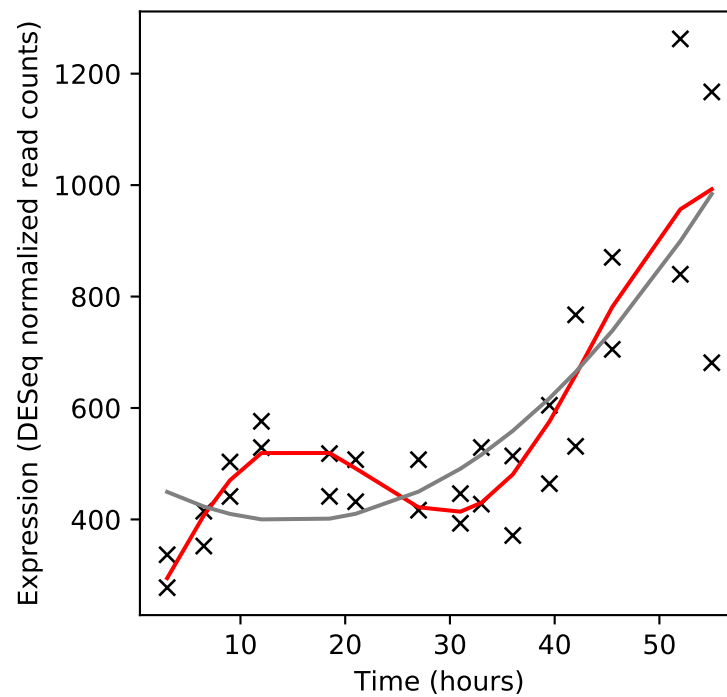
Rv0881/-



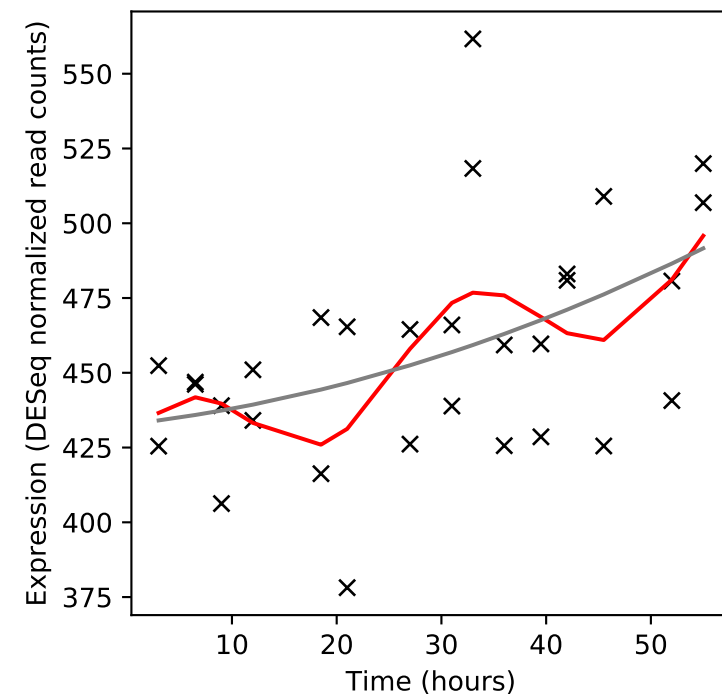
Rv0882/-



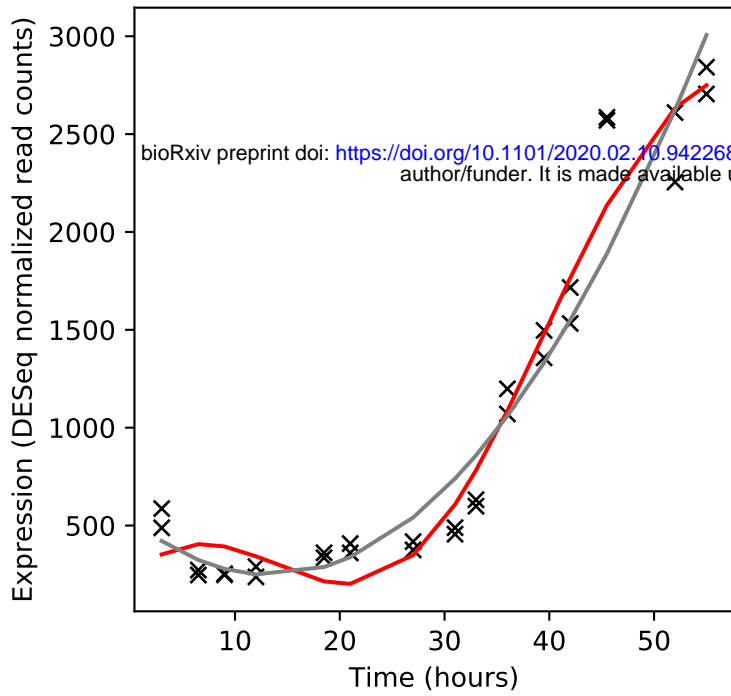
Rv0883c/-



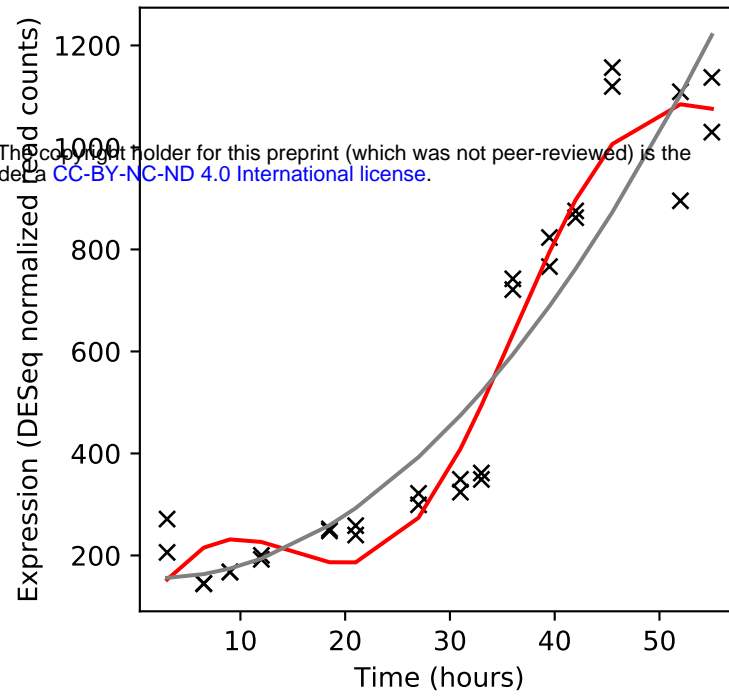
Rv0884c/serC



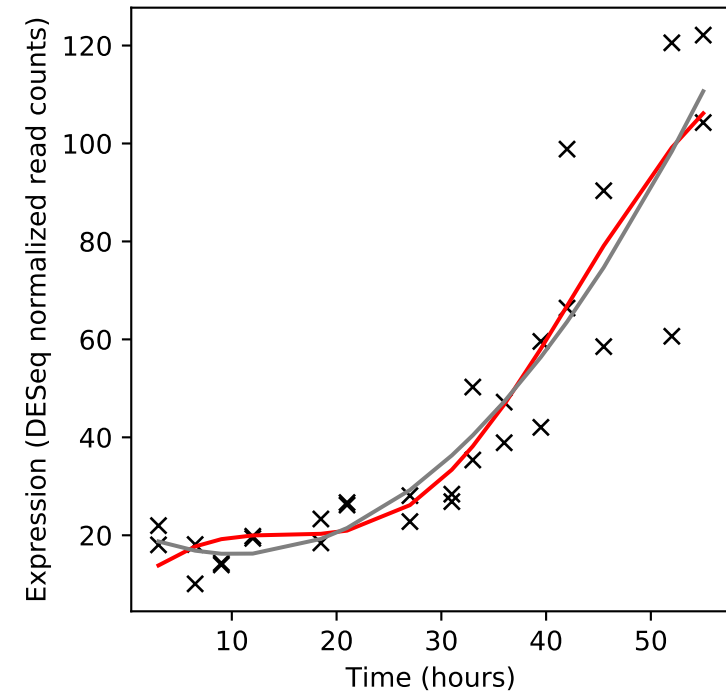
Rv0885/-



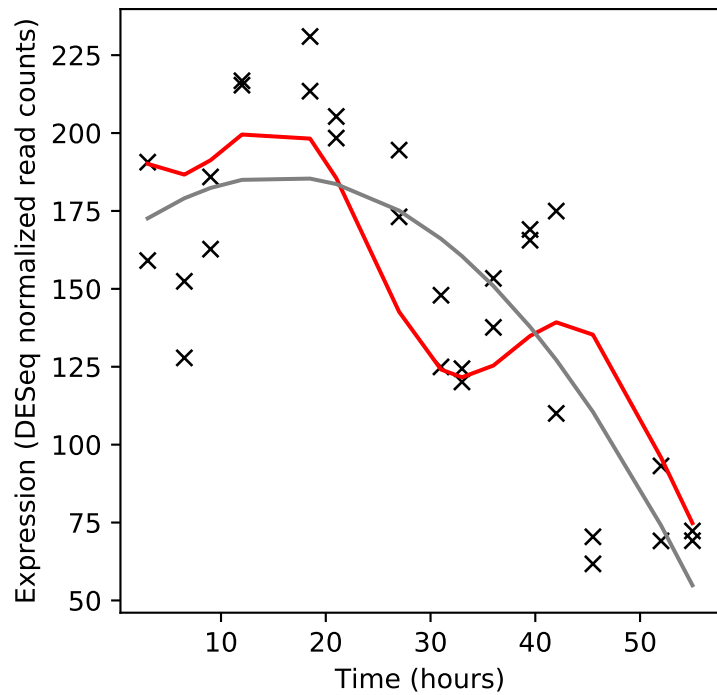
Rv0886/fprB



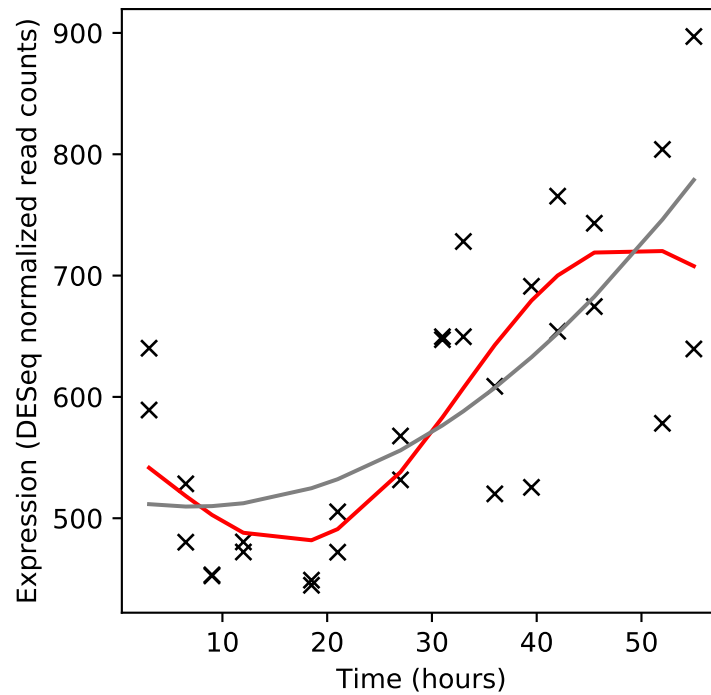
Rv0887c/-



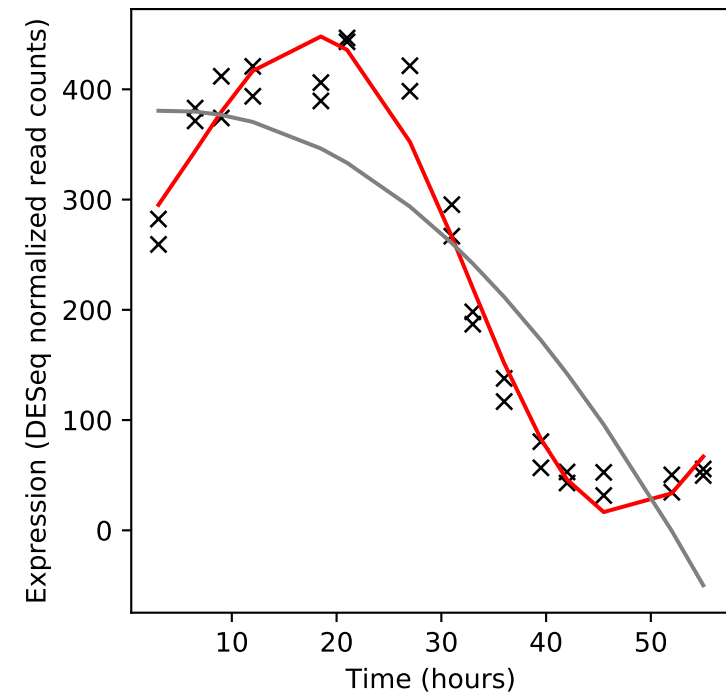
Rv0888/-



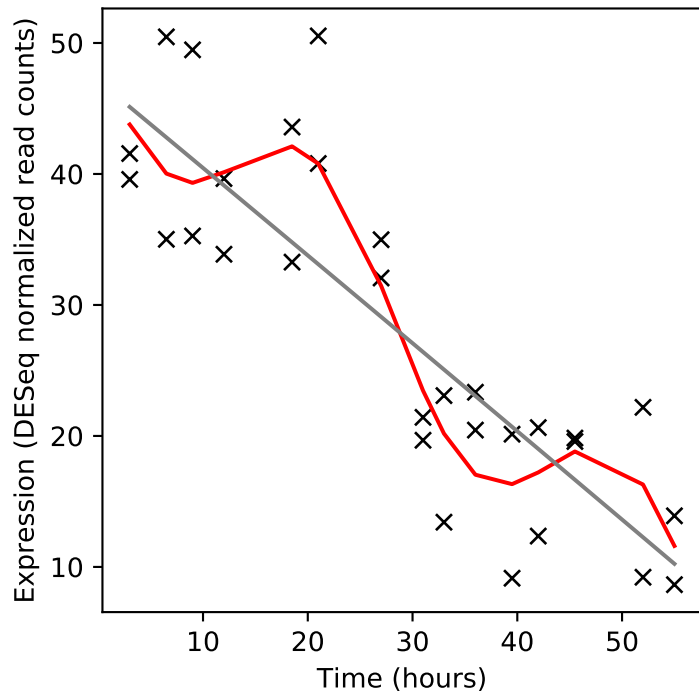
Rv0889c/citA



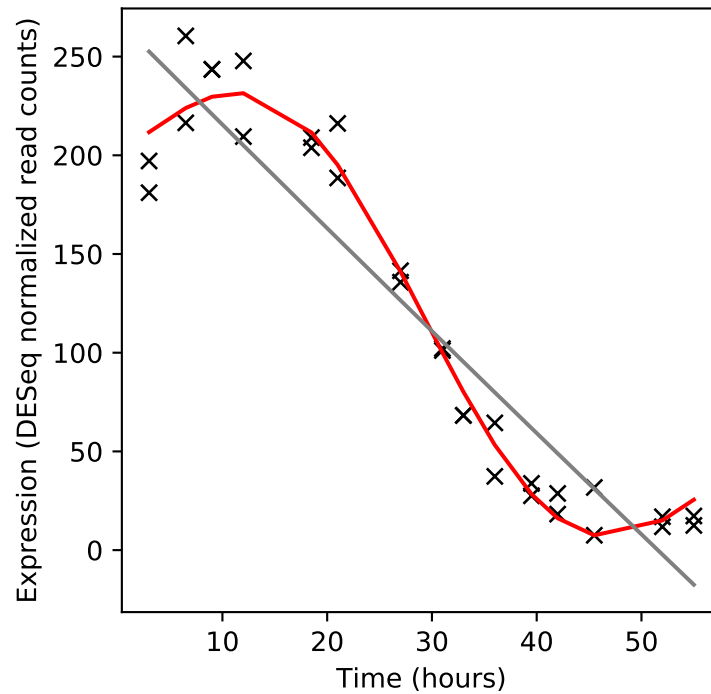
Rv0890c/-



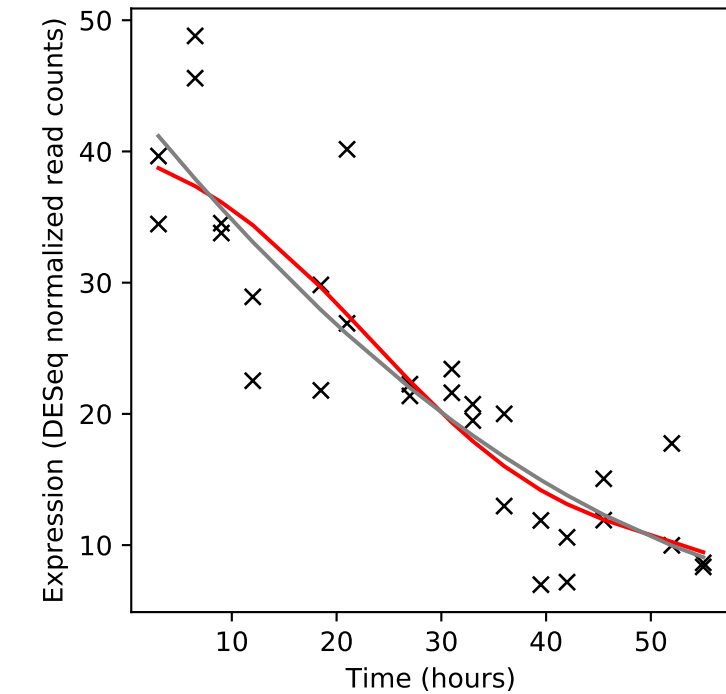
Rv0891c/-



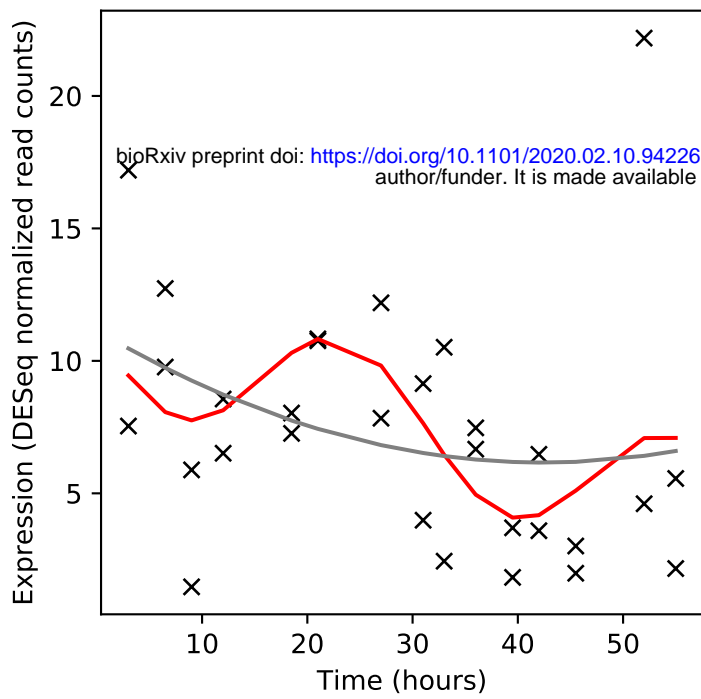
Rv0892/-



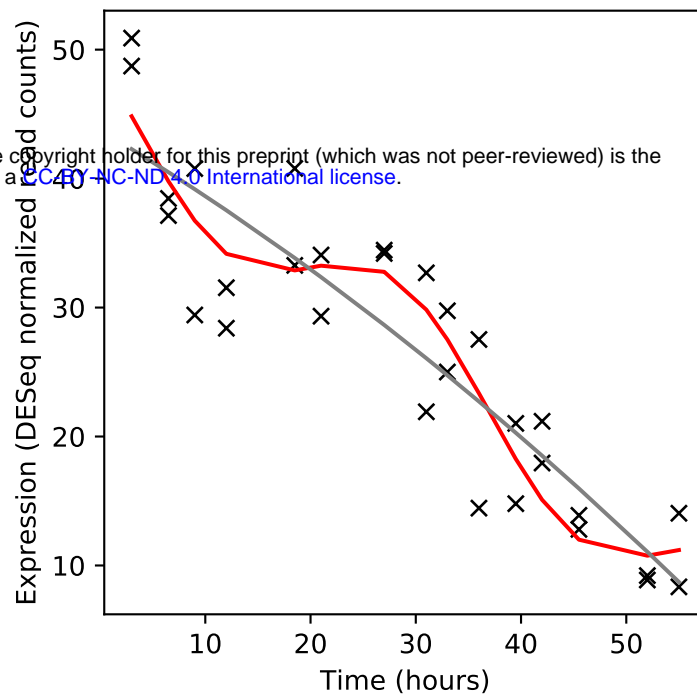
Rv0893c/-



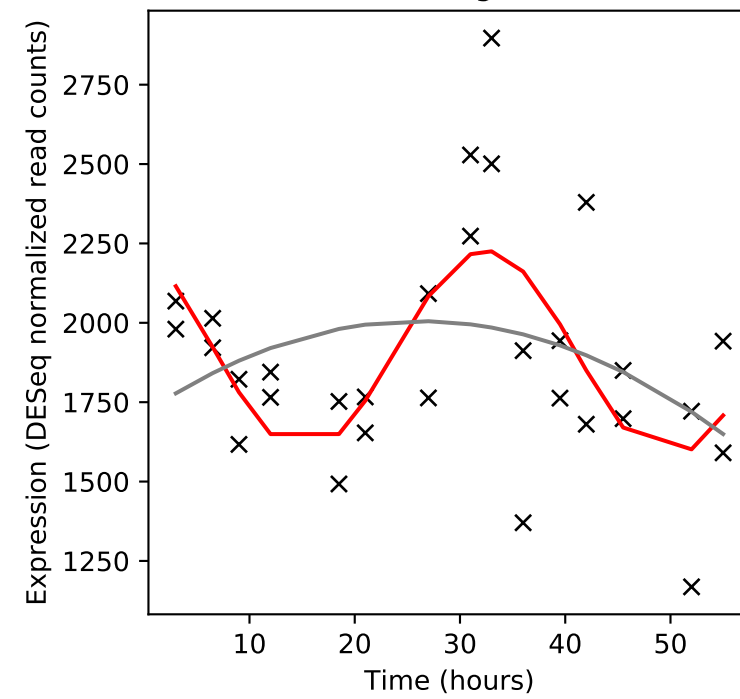
Rv0894/-



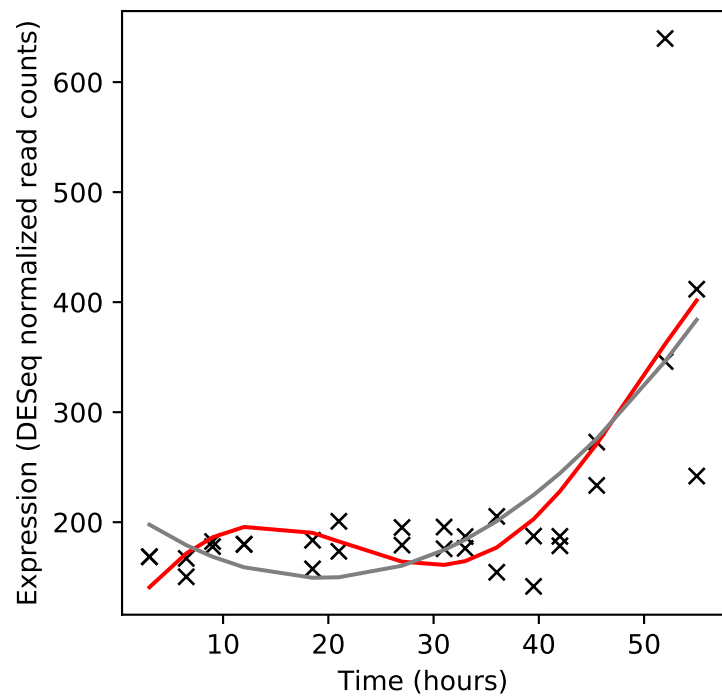
Rv0895/-



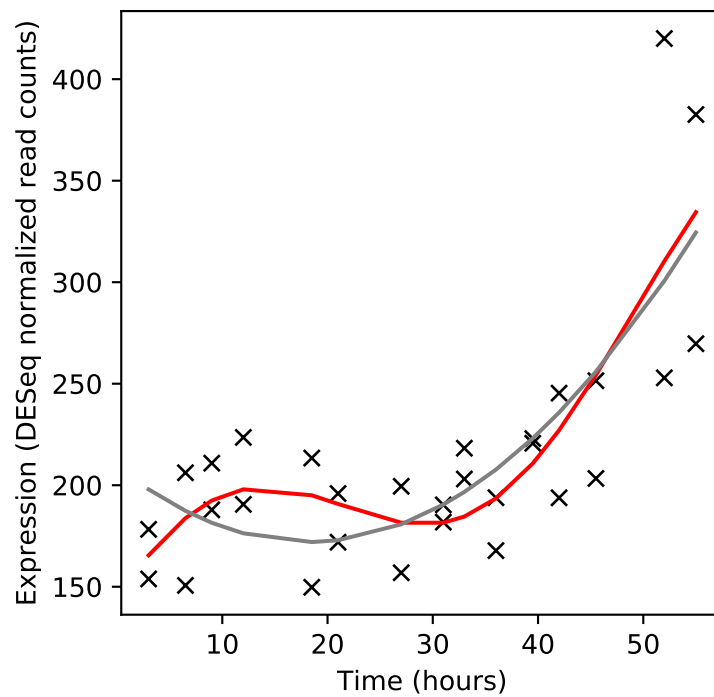
Rv0896/gltA2



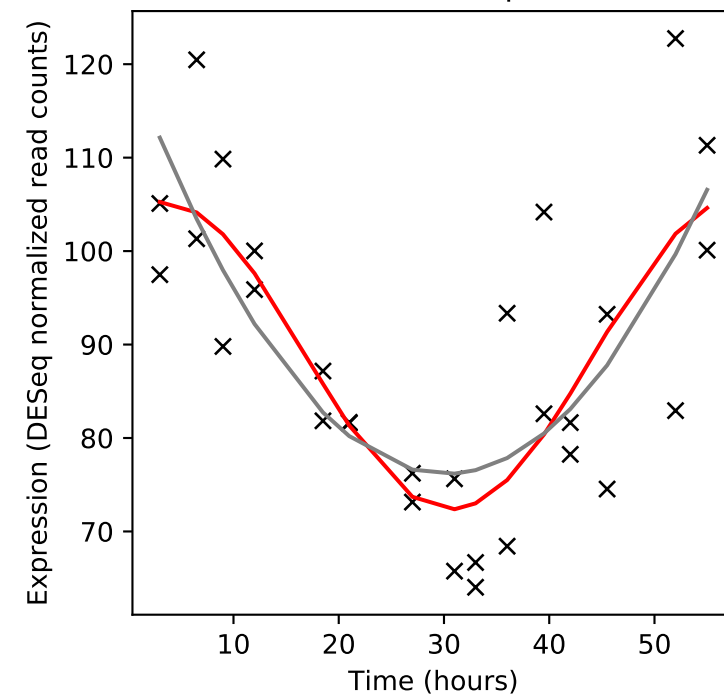
Rv0897c/-



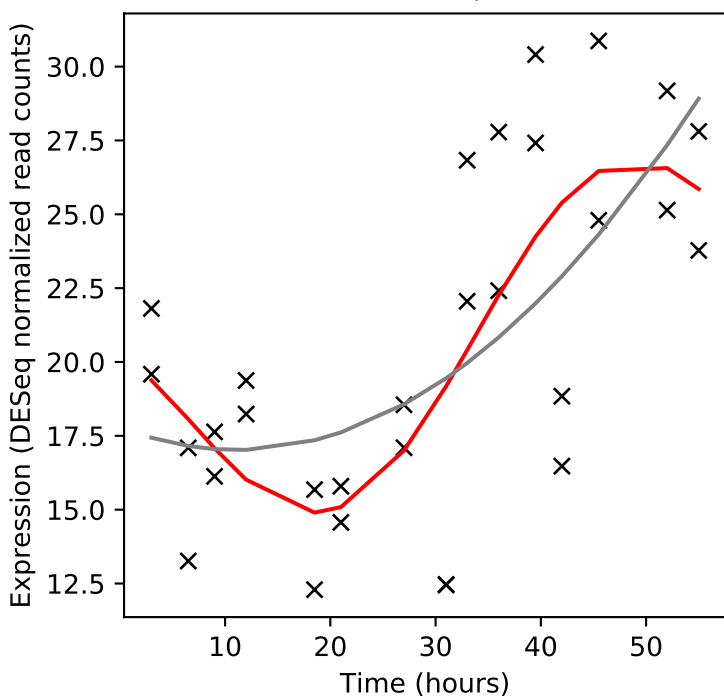
Rv0898c/-



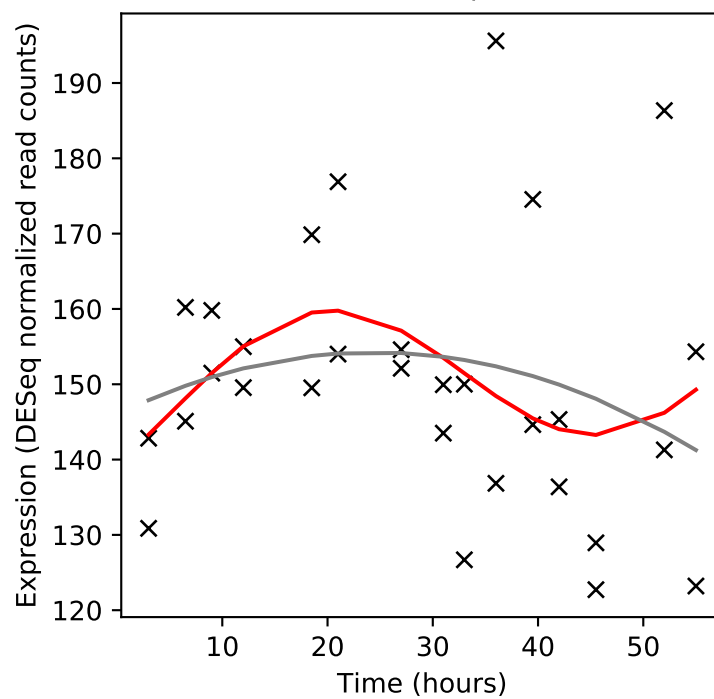
Rv0899/ompA



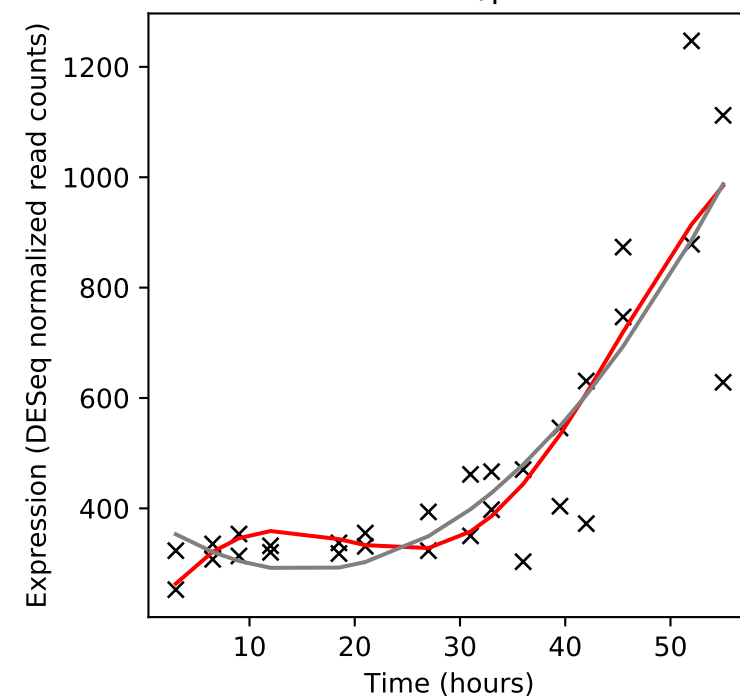
Rv0900/-



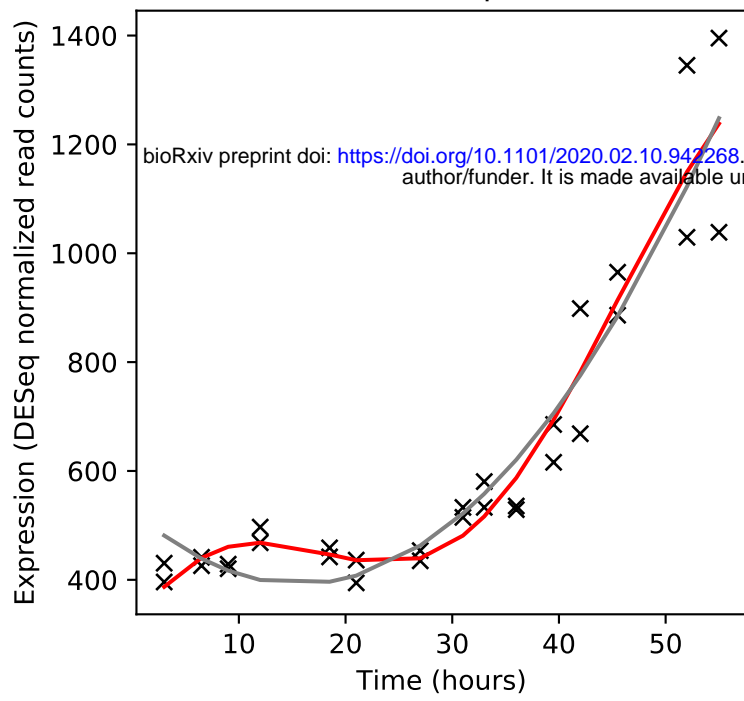
Rv0901/-



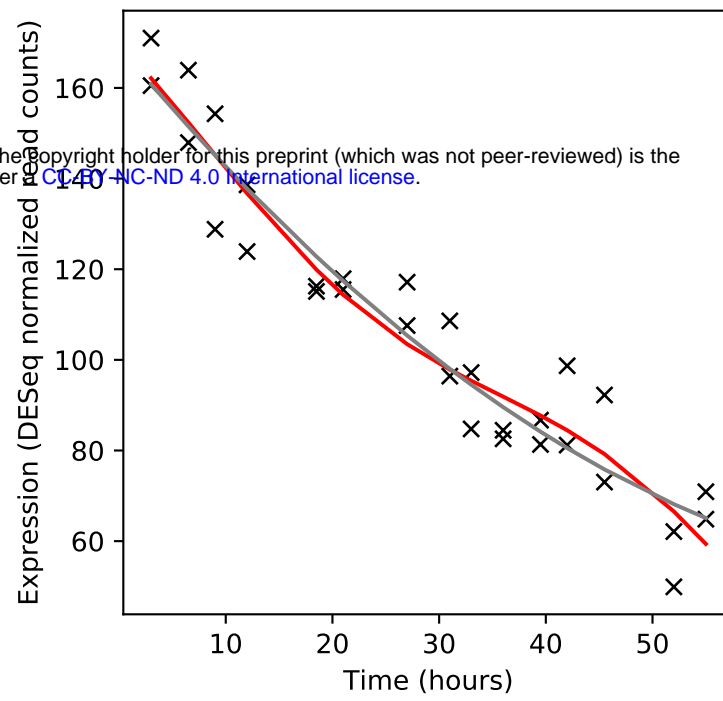
Rv0902c/prrB



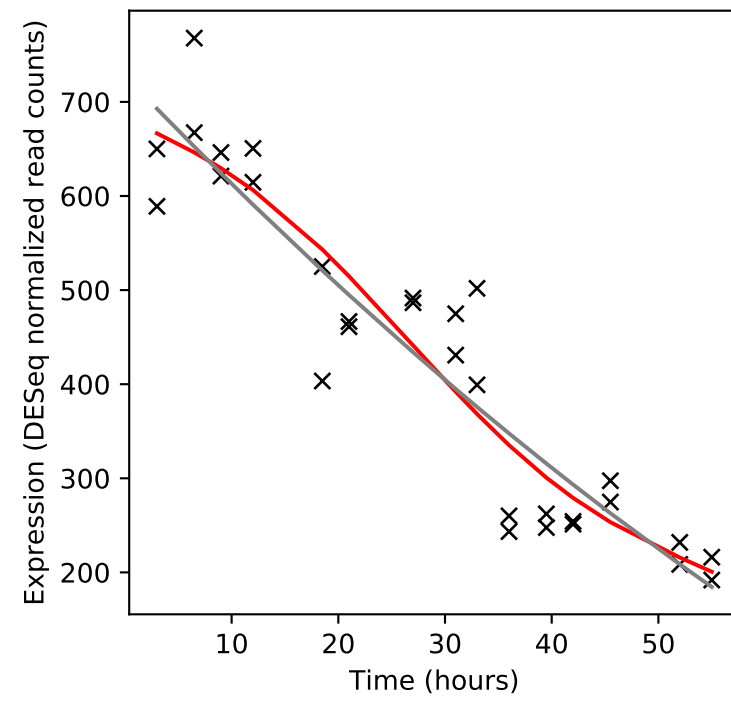
Rv0903c/prrA



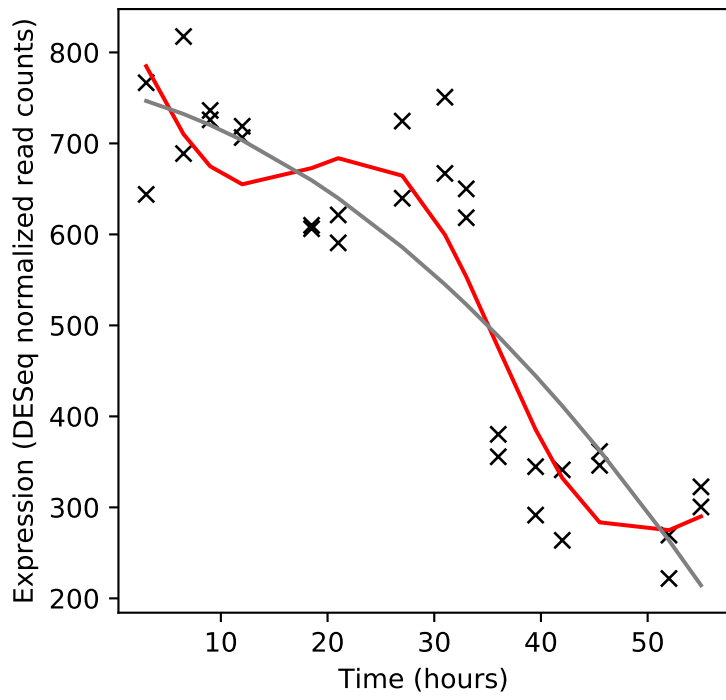
Rv0904c/accD3



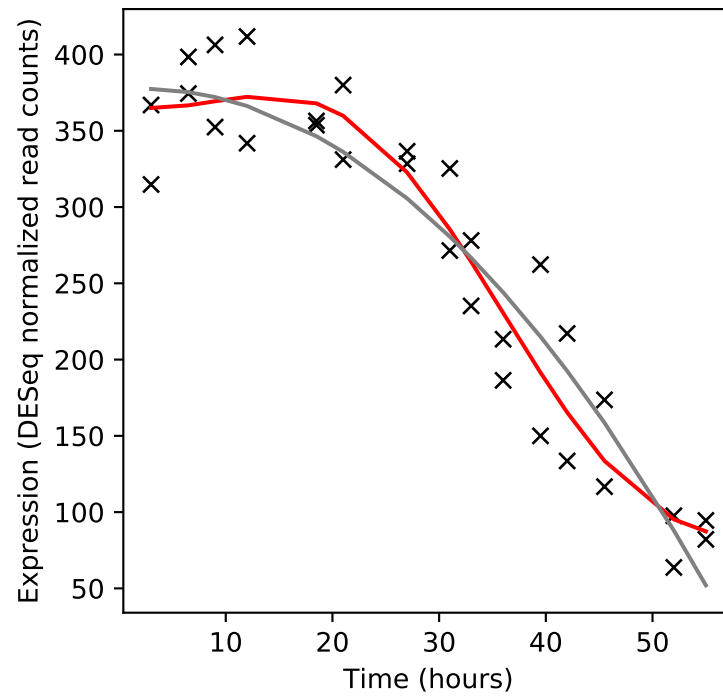
Rv0905/echA6



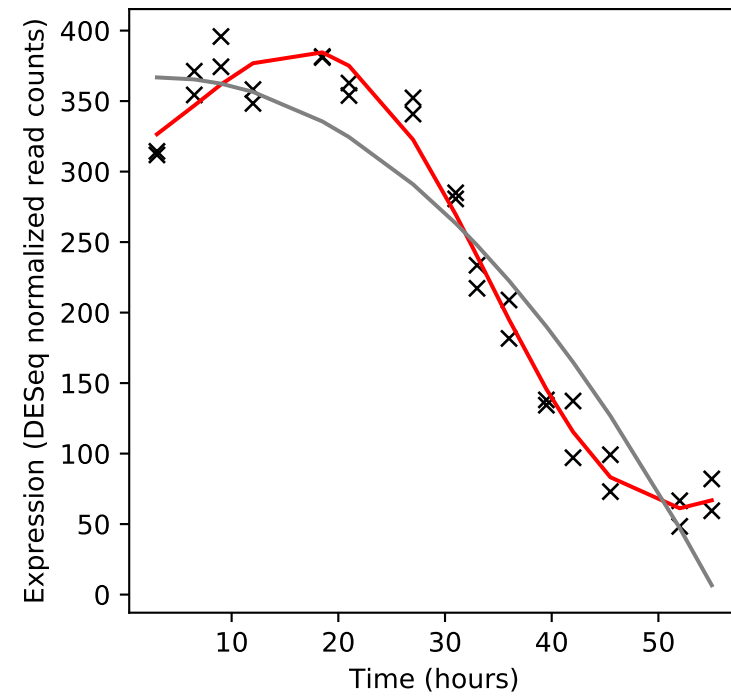
Rv0906/-



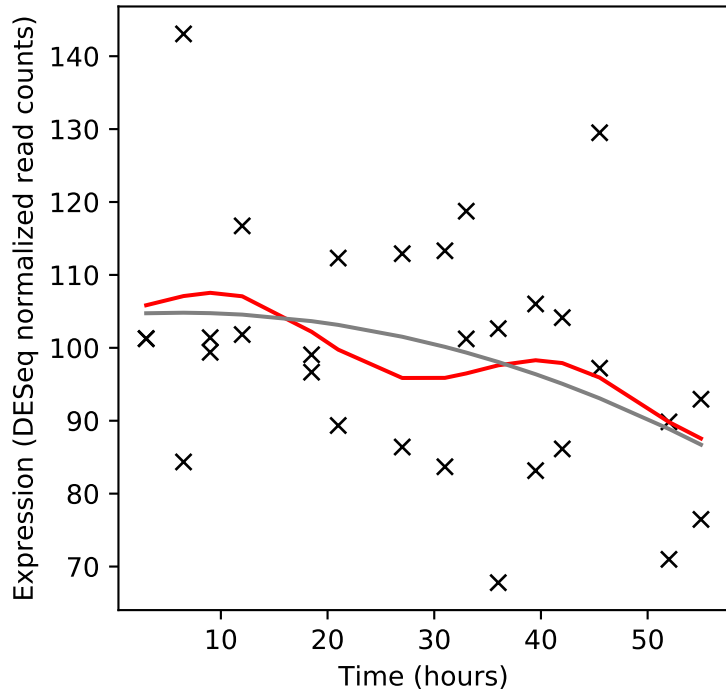
Rv0907/-



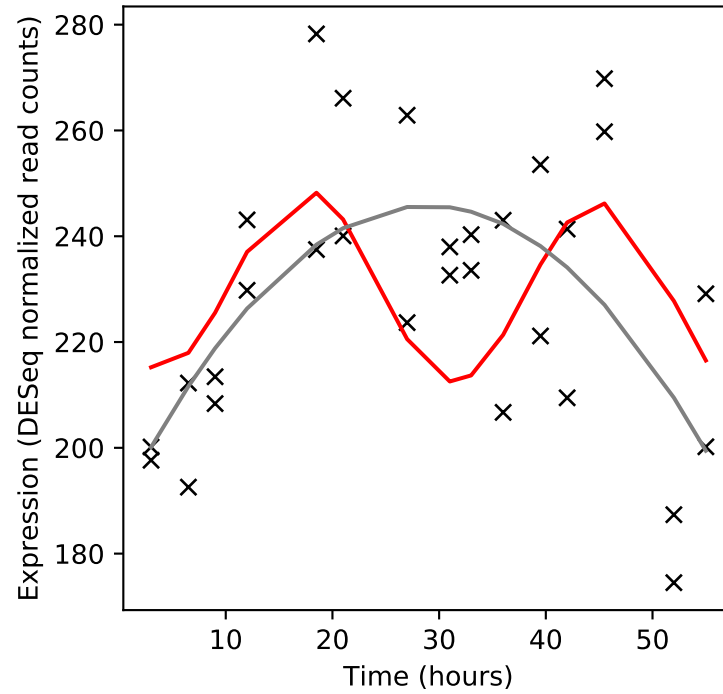
Rv0908/ctpE



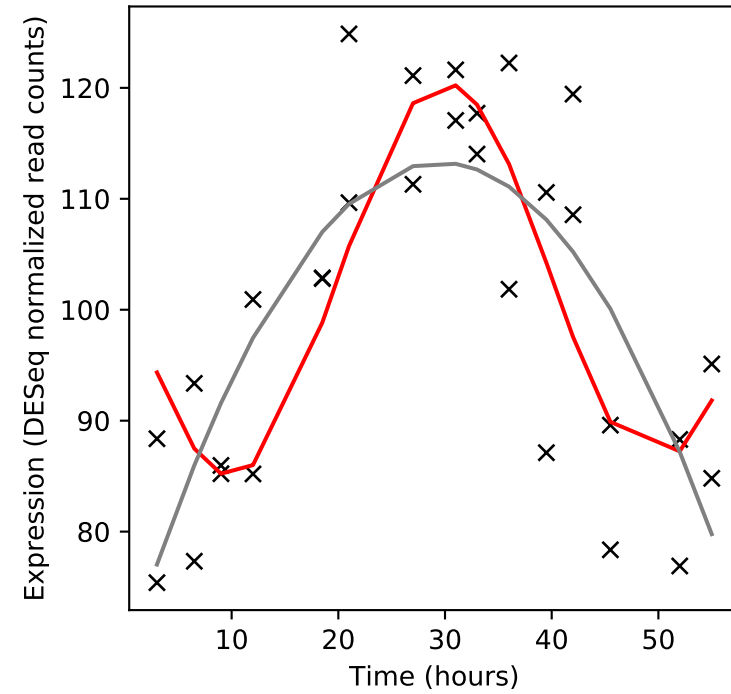
Rv0909/-



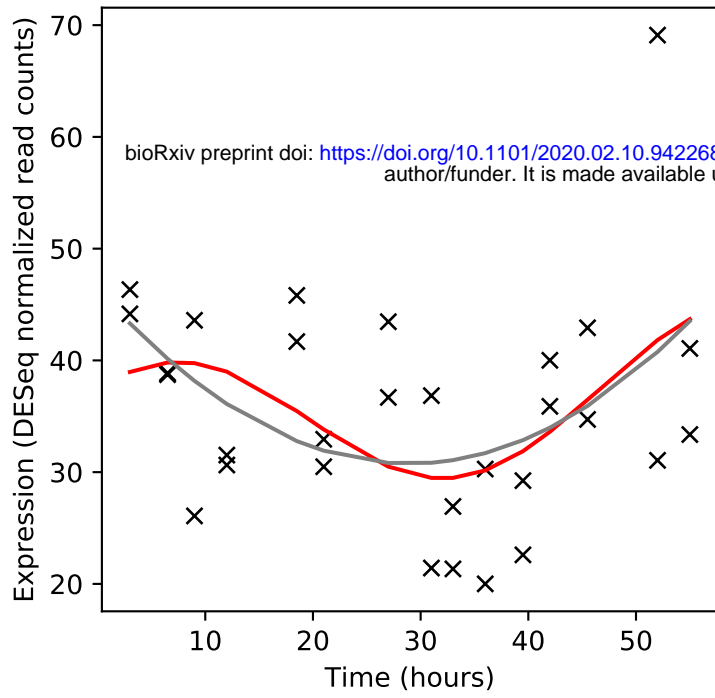
Rv0910/-



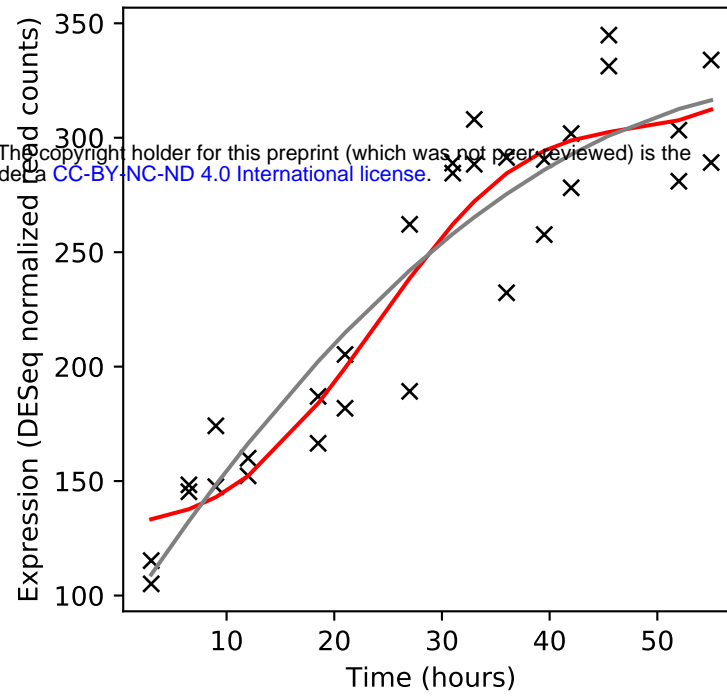
Rv0911/-



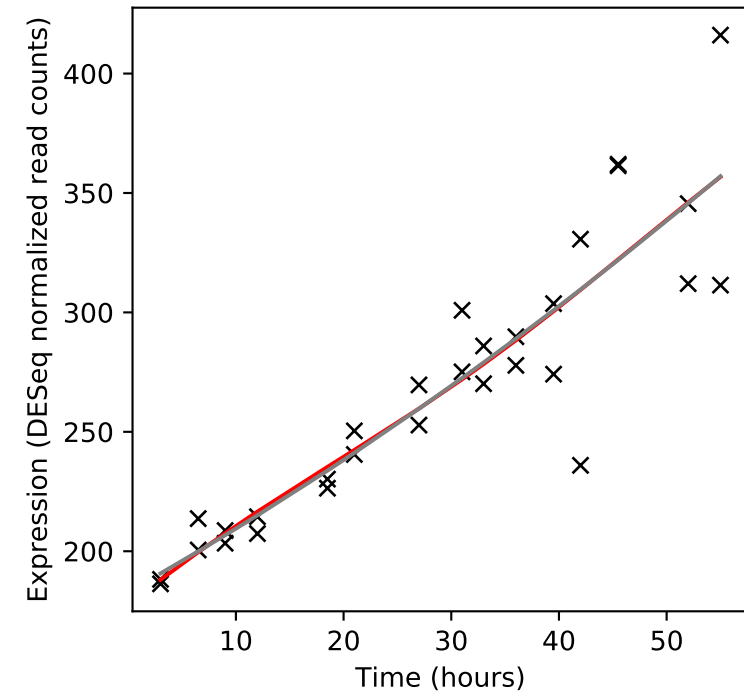
Rv0912/-



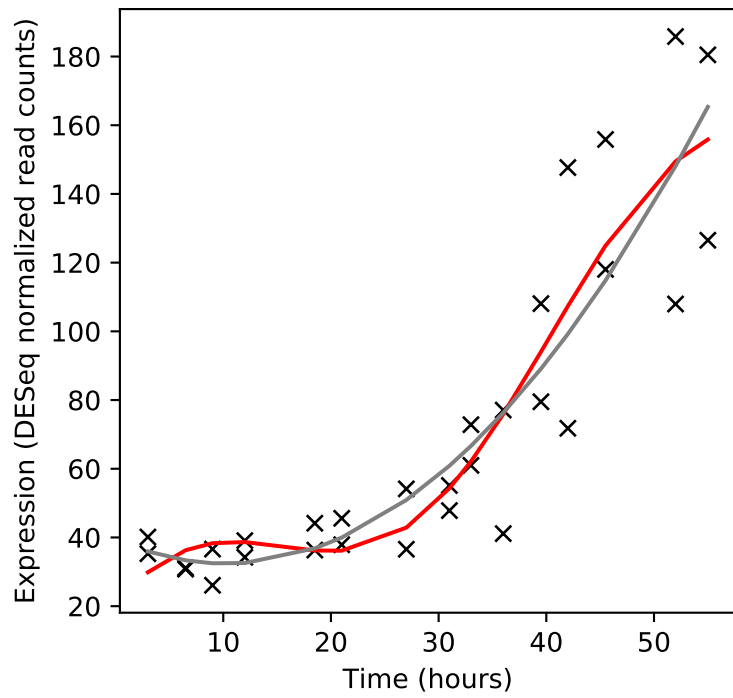
Rv0913c/-



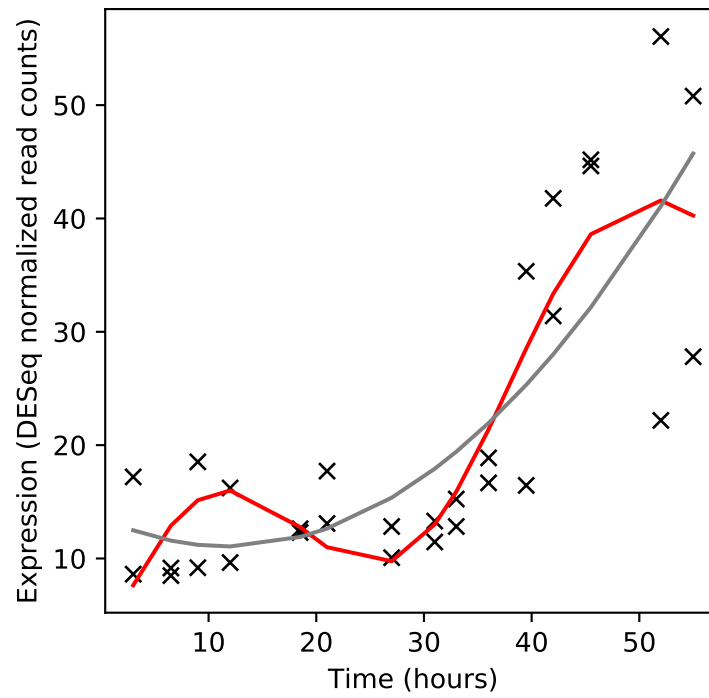
Rv0914c/-



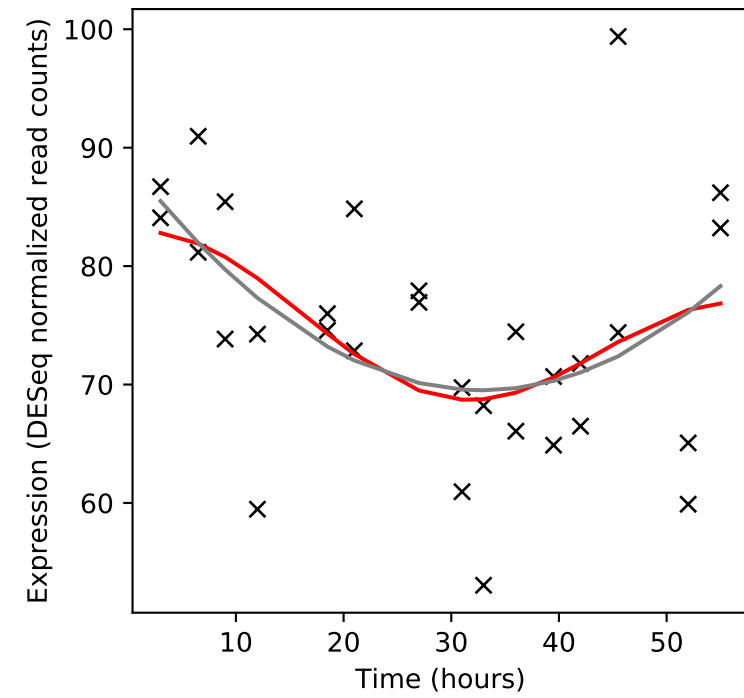
Rv0915c/PPE14



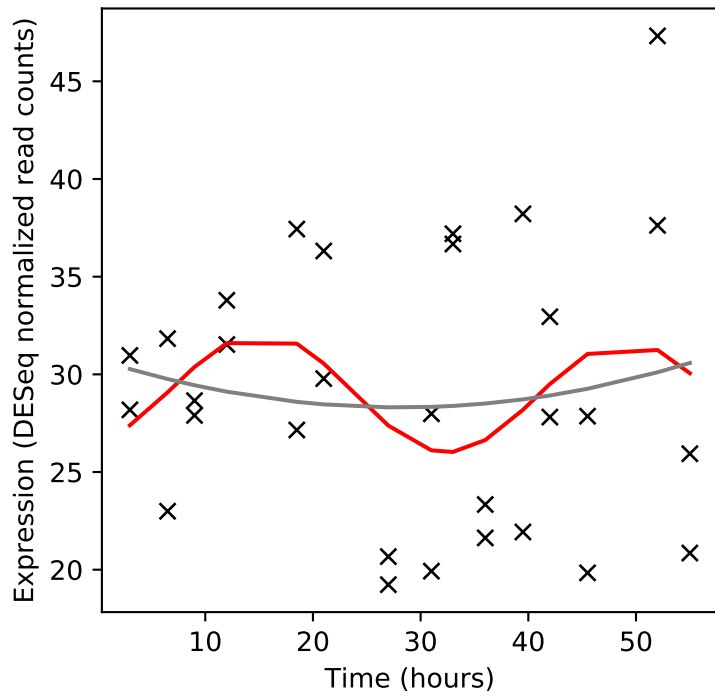
Rv0916c/PE7



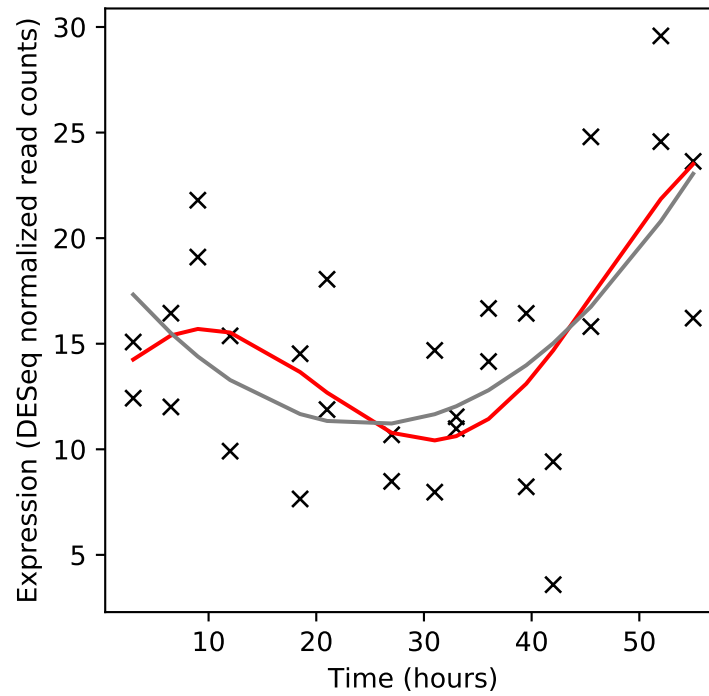
Rv0917/betP



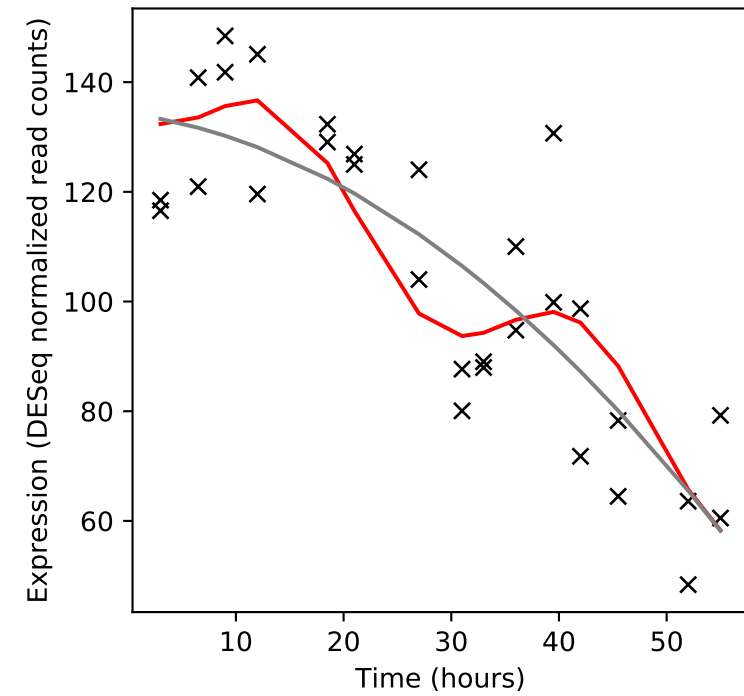
Rv0918/-



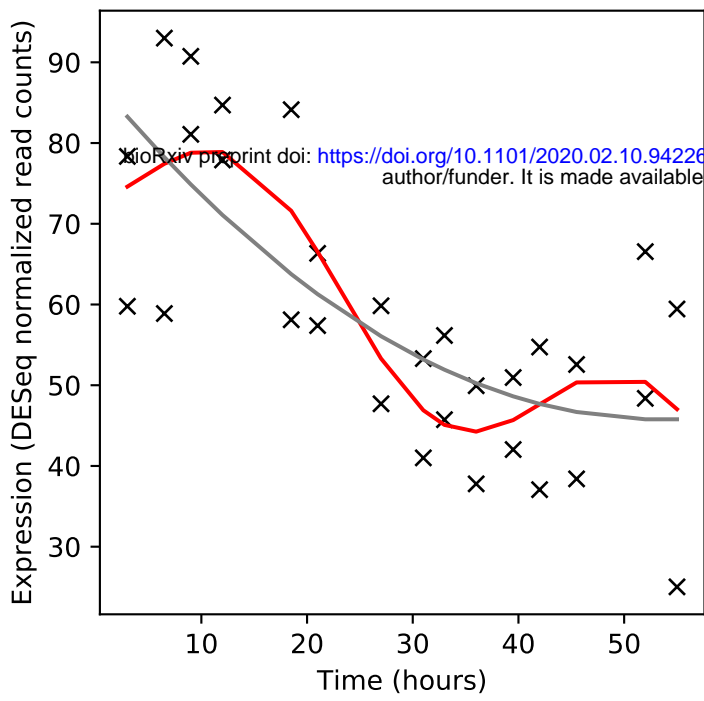
Rv0919/-



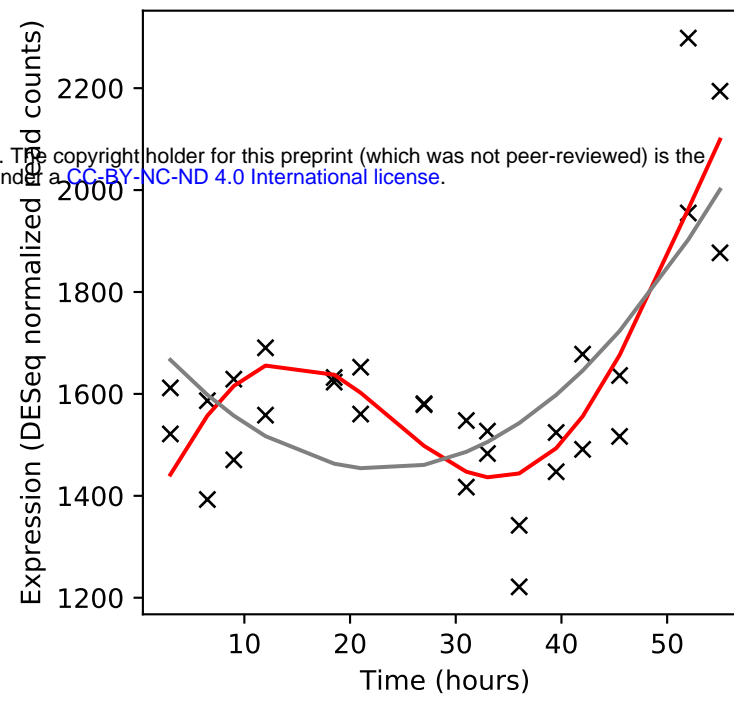
Rv0920c/-



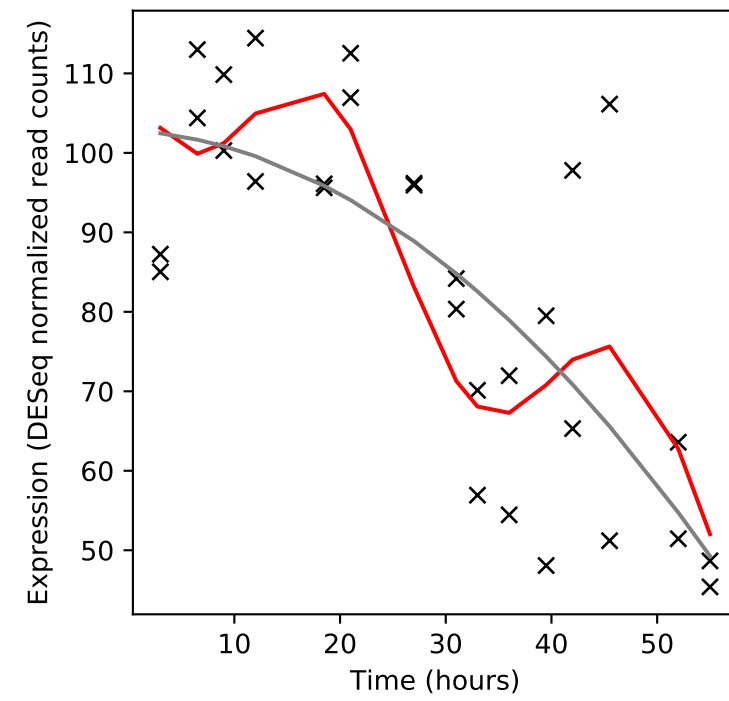
Rv0921/-



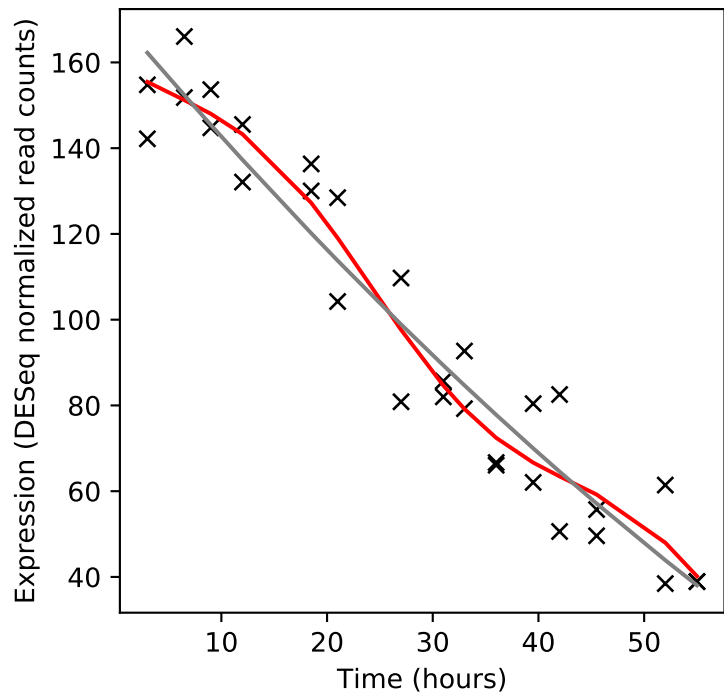
Rv0922/-



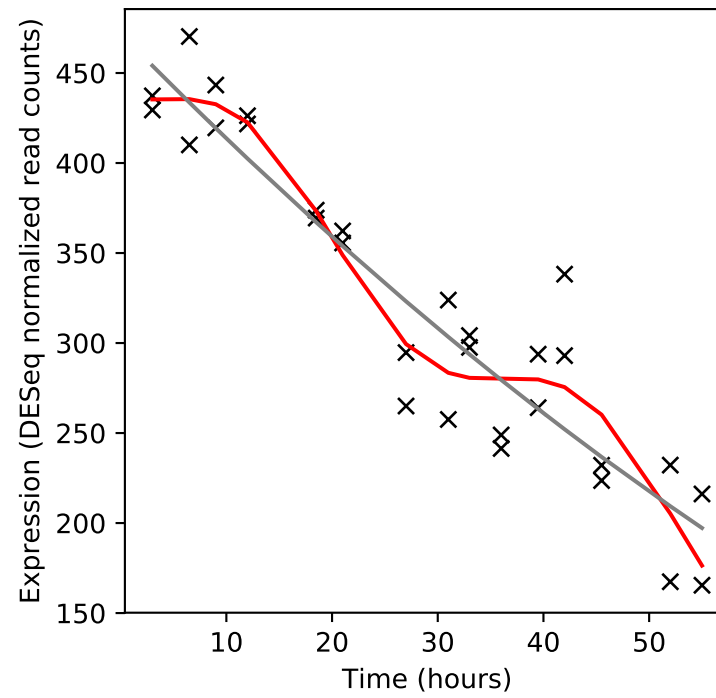
Rv0923c/-



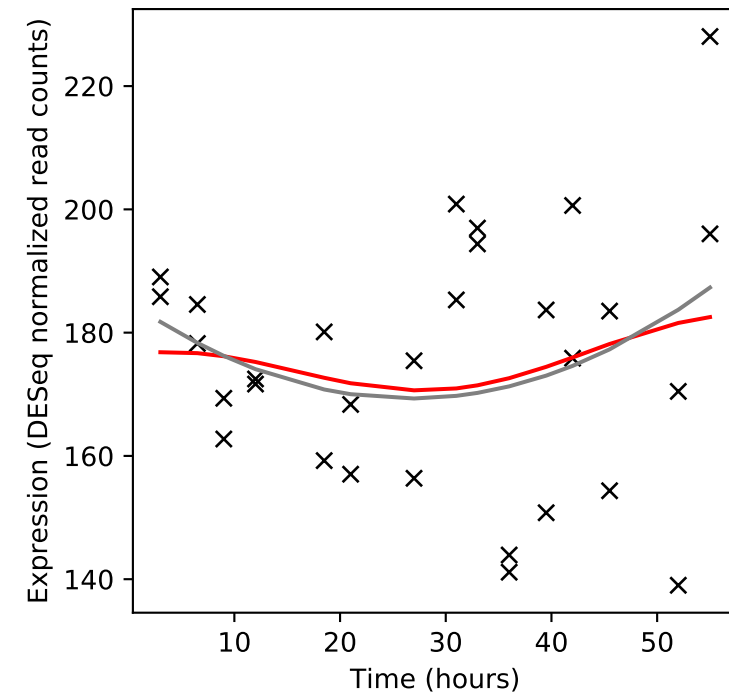
Rv0924c/mntH



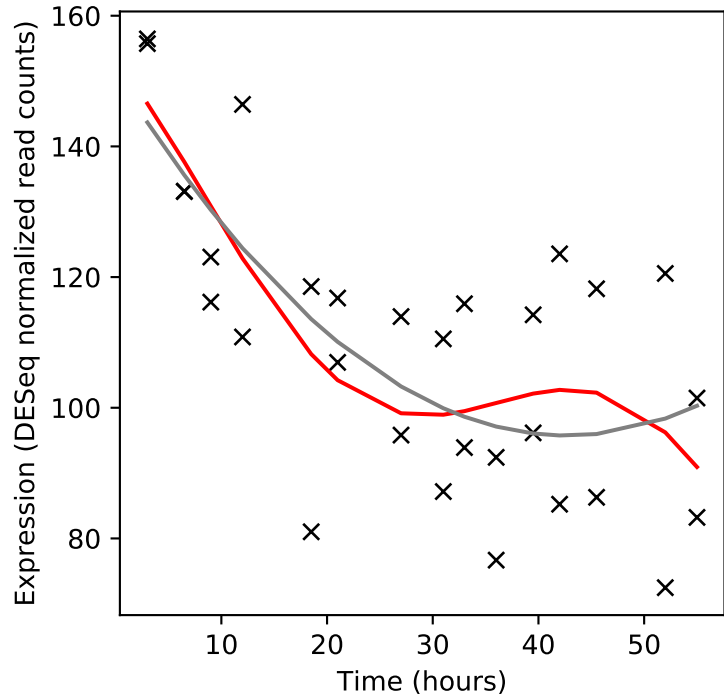
Rv0925c/-



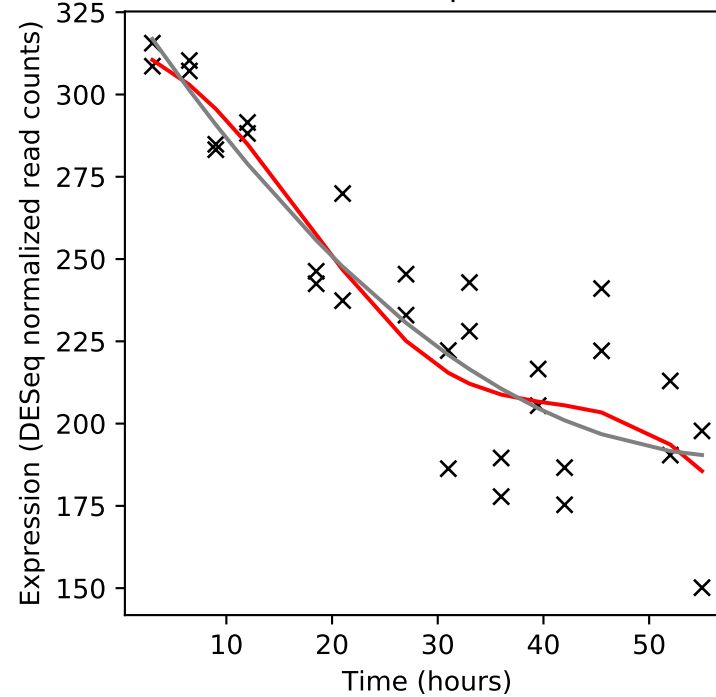
Rv0926c/-



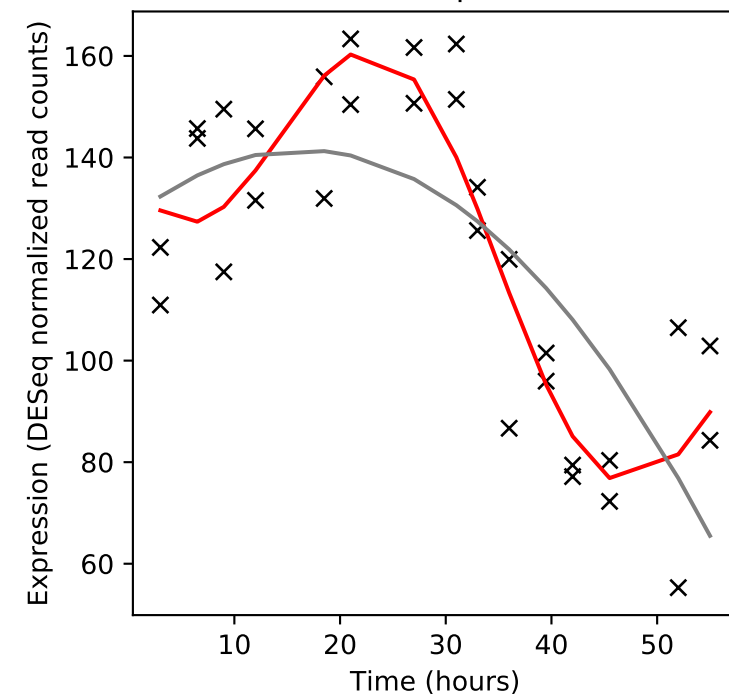
Rv0927c/-



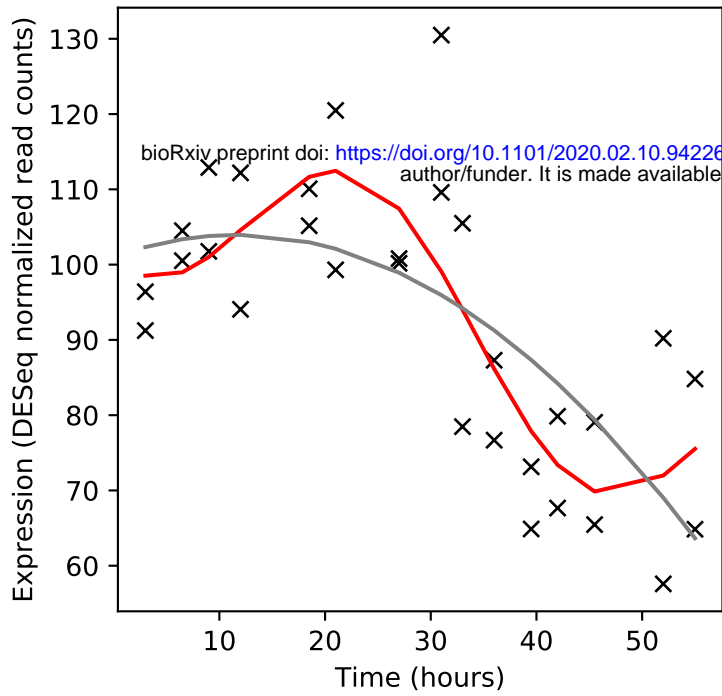
Rv0928/pstS3



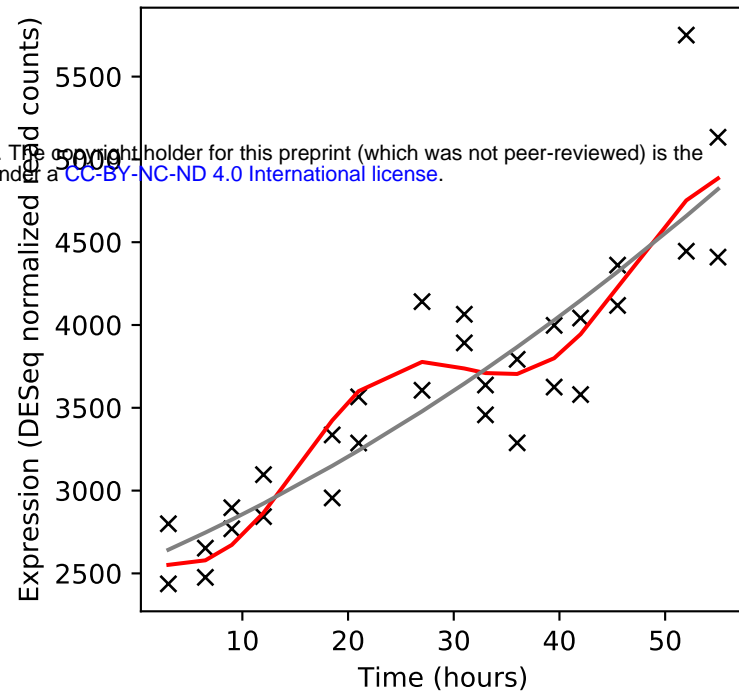
Rv0929/pstC2



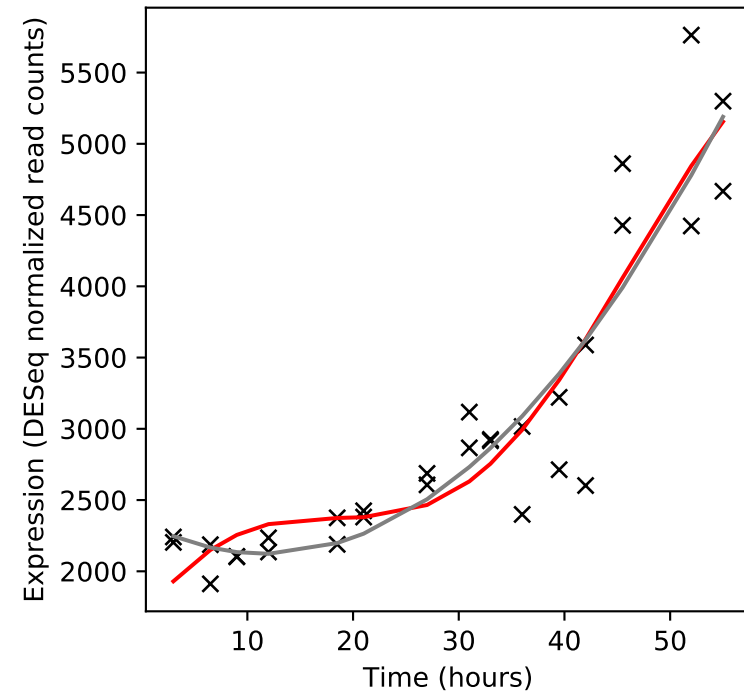
Rv0930/pstA1



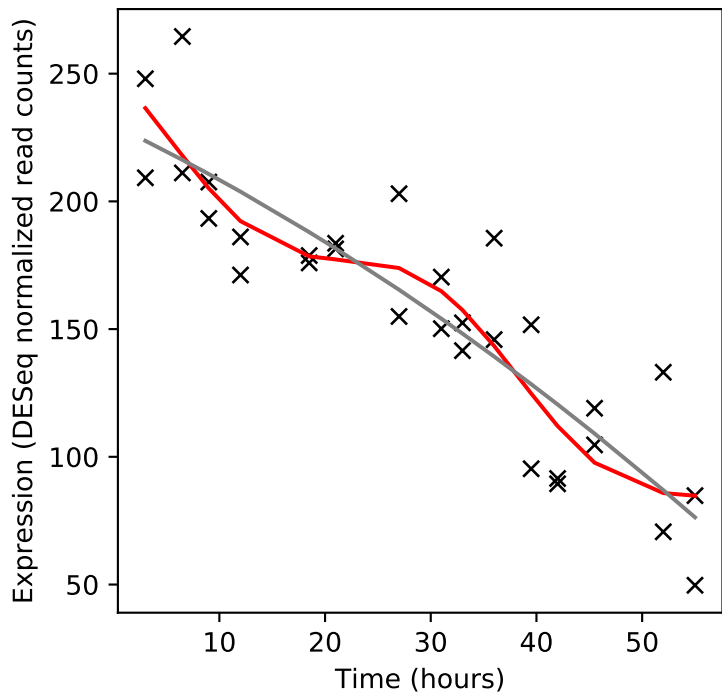
Rv0931c/pkND



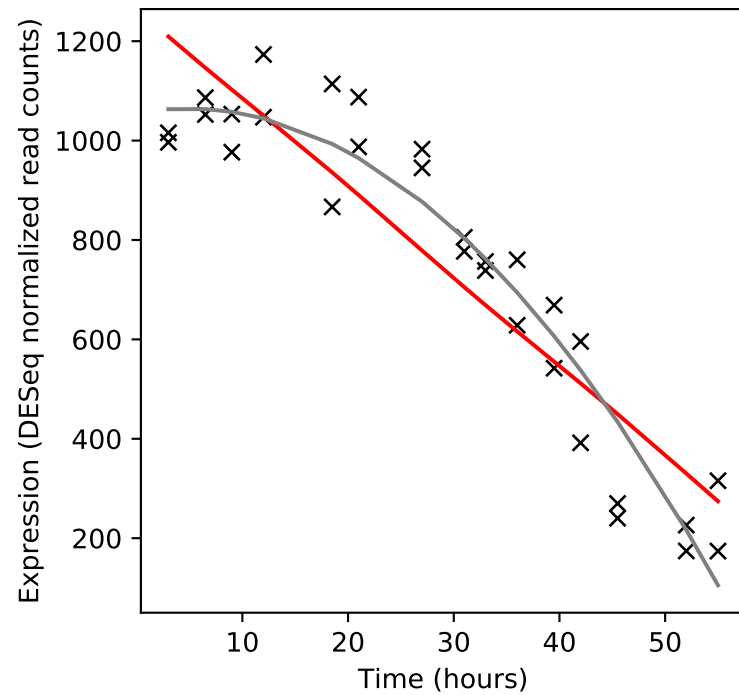
Rv0932c/pstS2



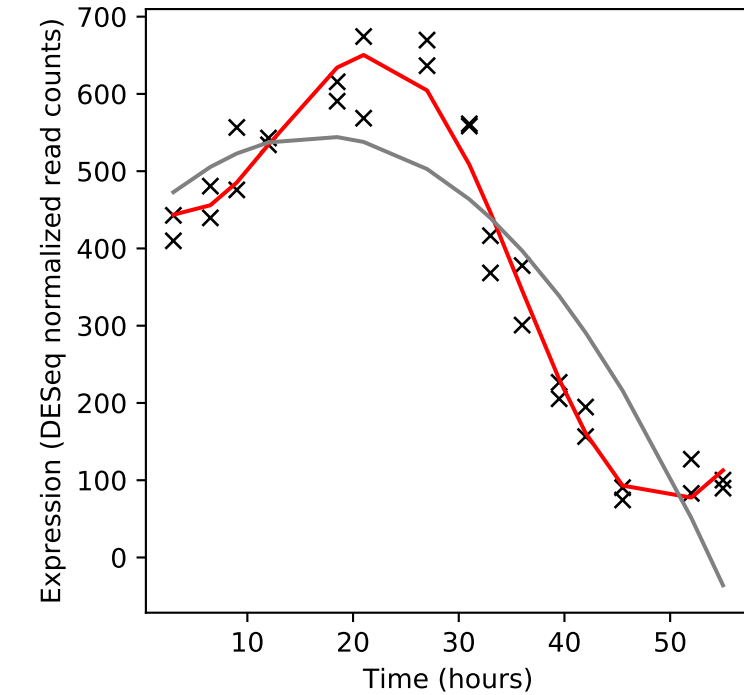
Rv0933/pstB



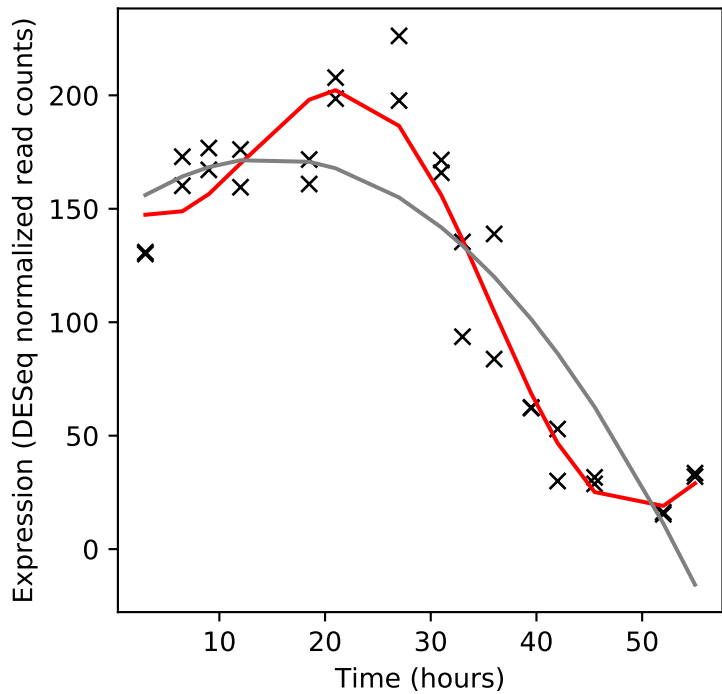
Rv0934/pstS1



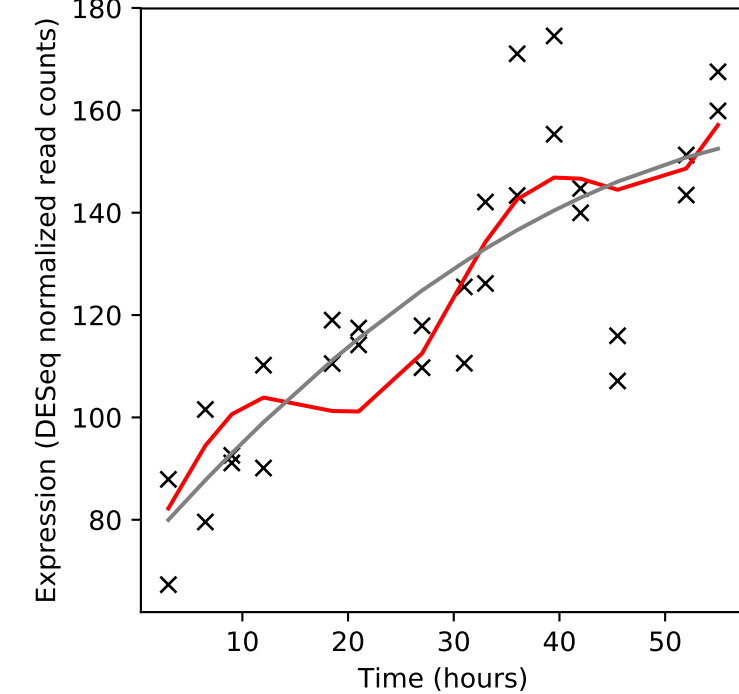
Rv0935/pstC1



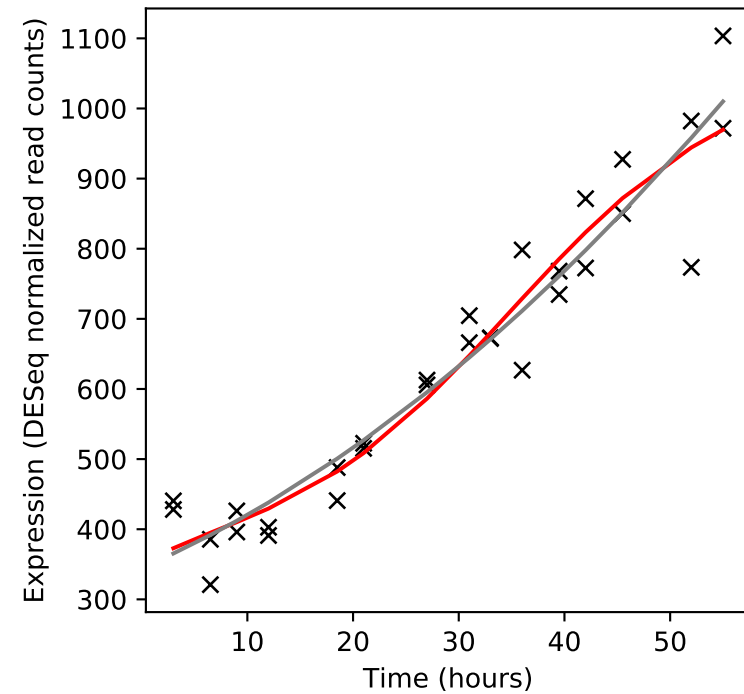
Rv0936/pstA2



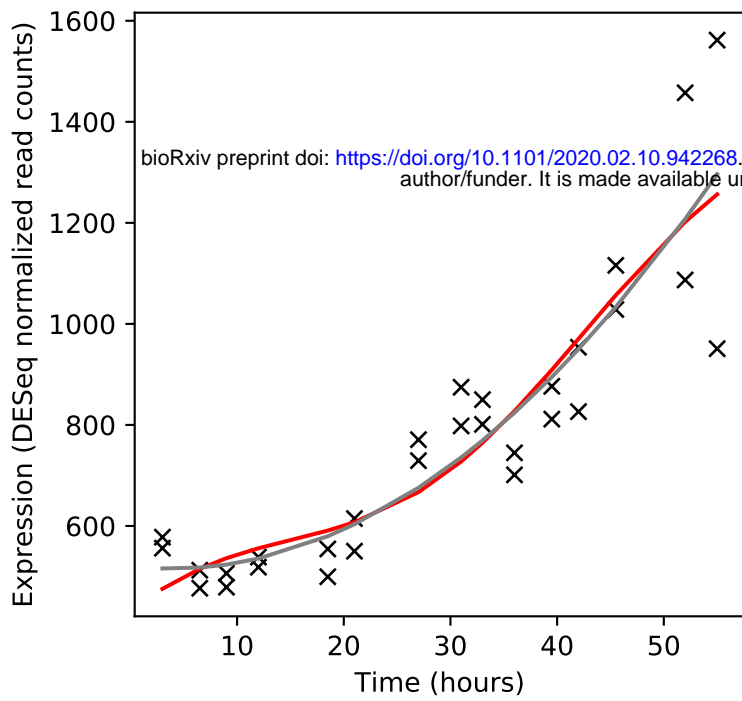
Rv0937c/mku



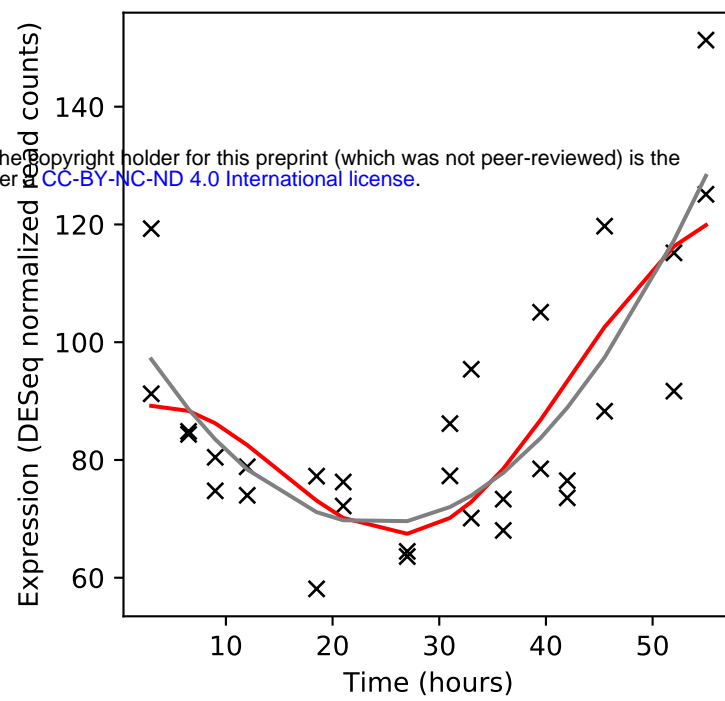
Rv0938/ligD



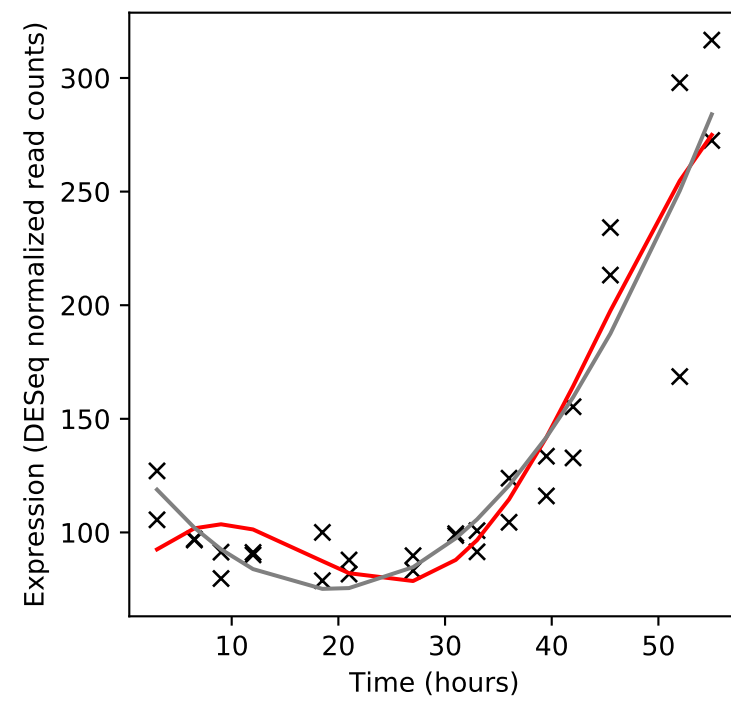
Rv0939/-



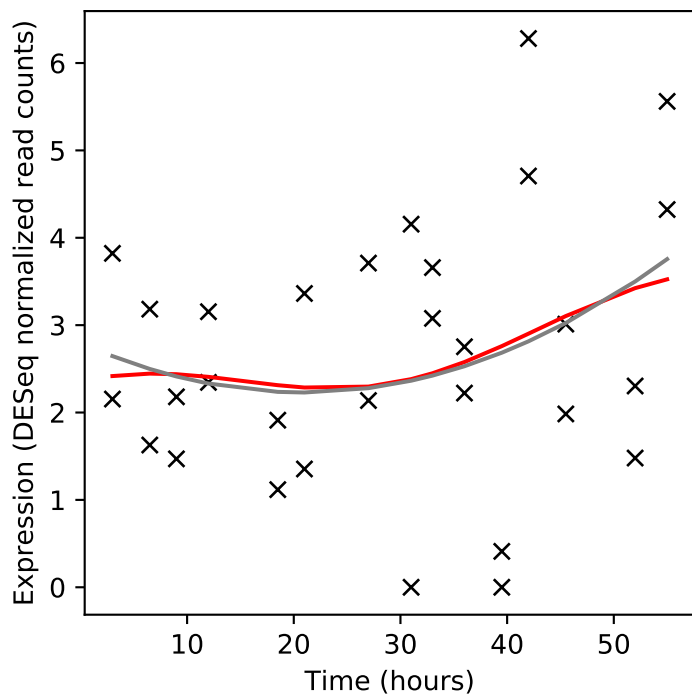
Rv0940c/-



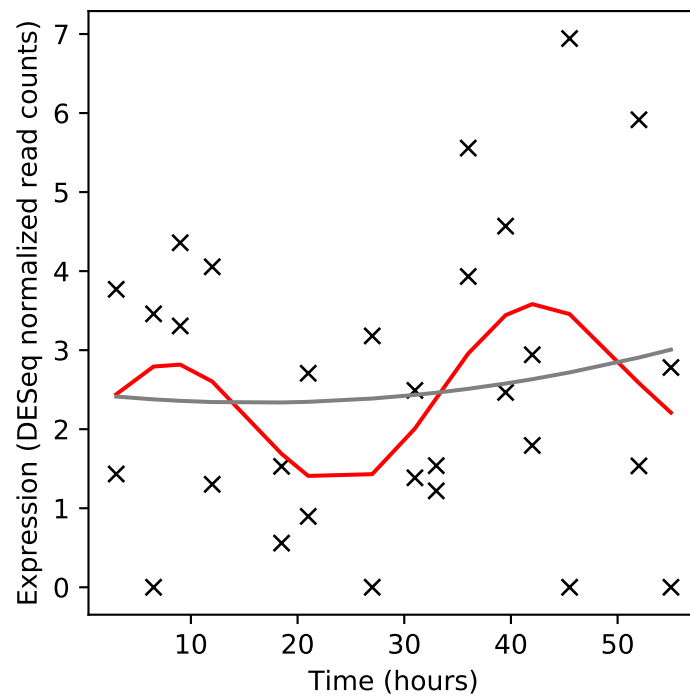
Rv0941c/-



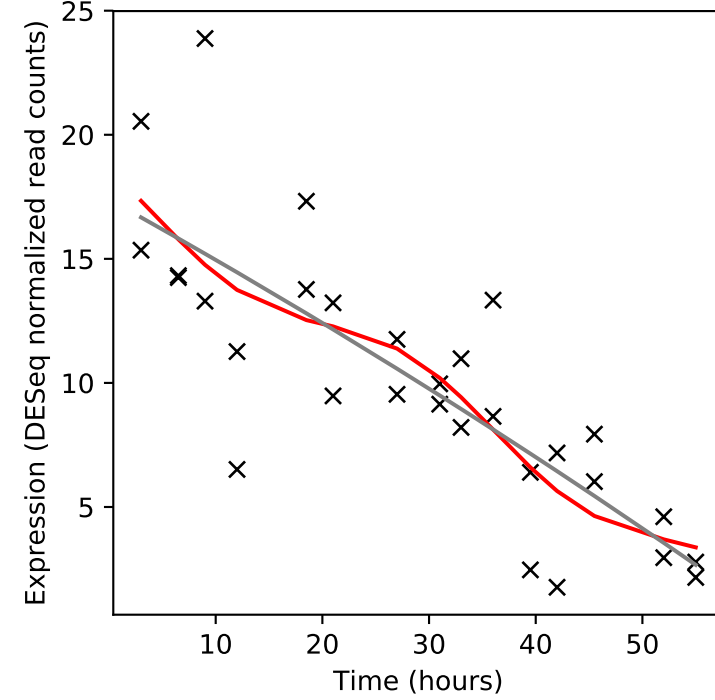
Rv0942/-



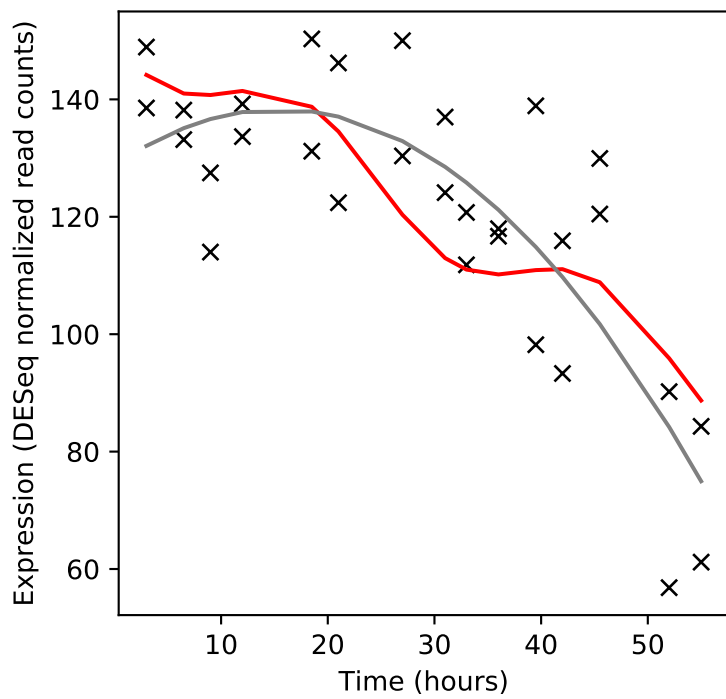
Rv0943c/-



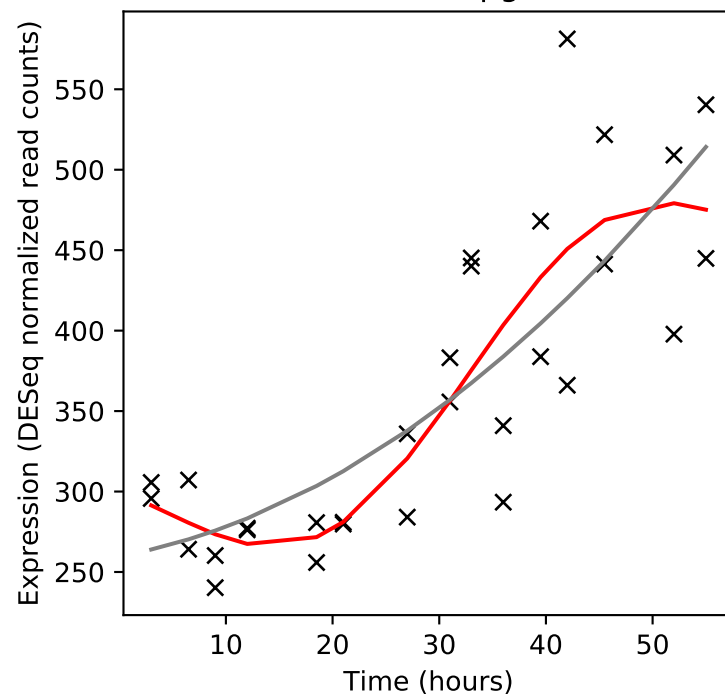
Rv0944/-



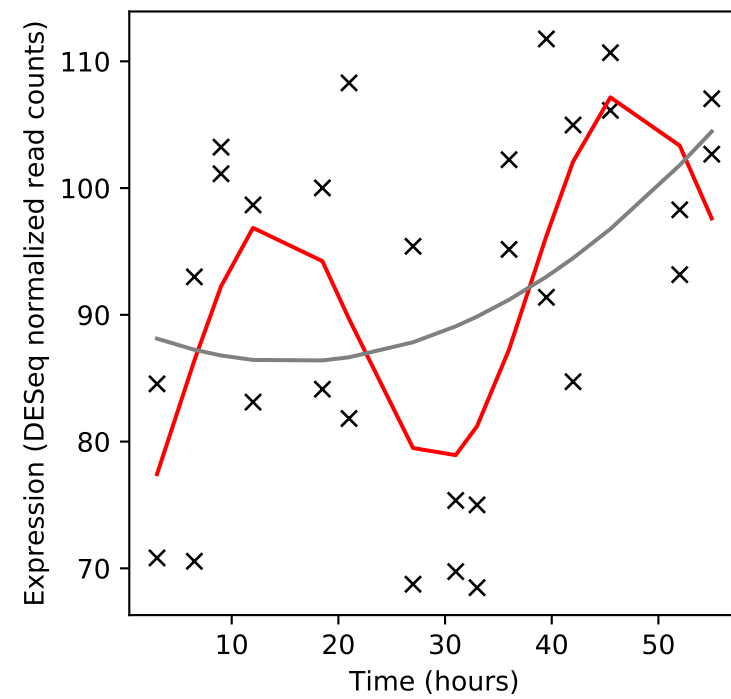
Rv0945/-



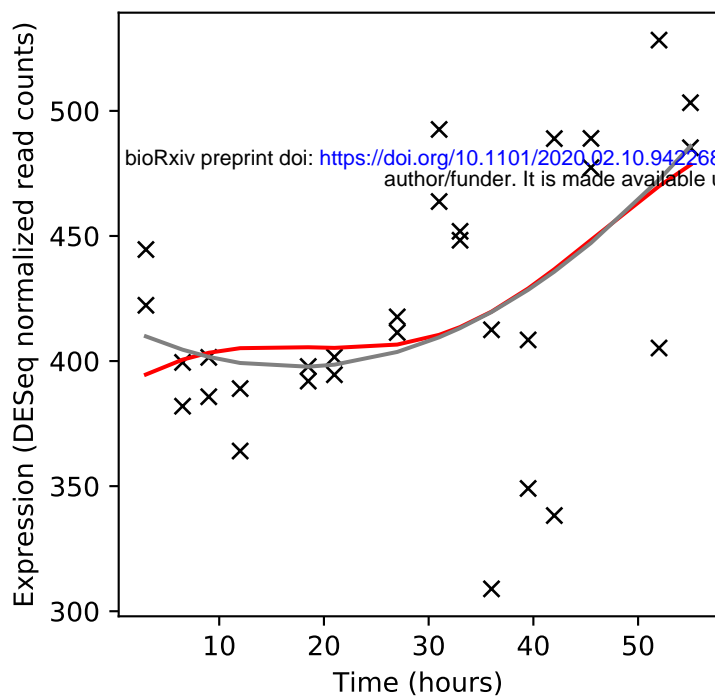
Rv0946c/pgi



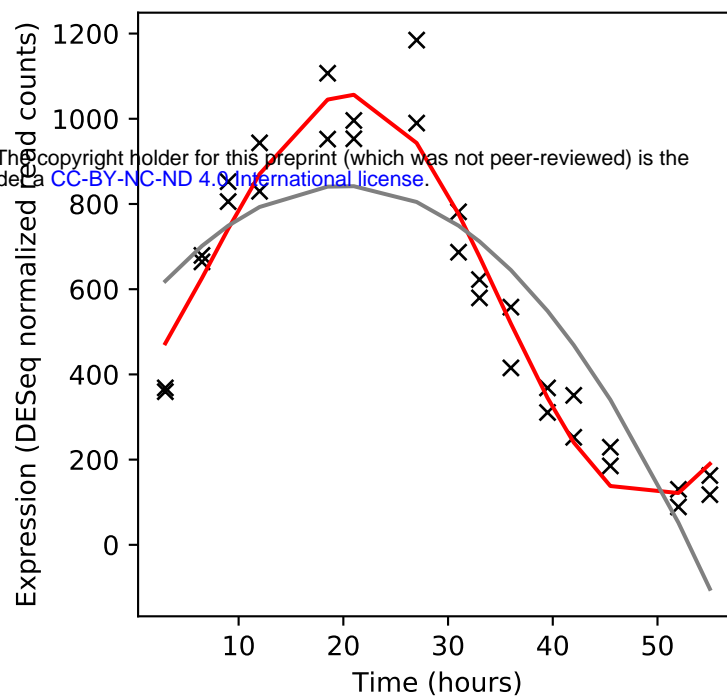
Rv0948c/-



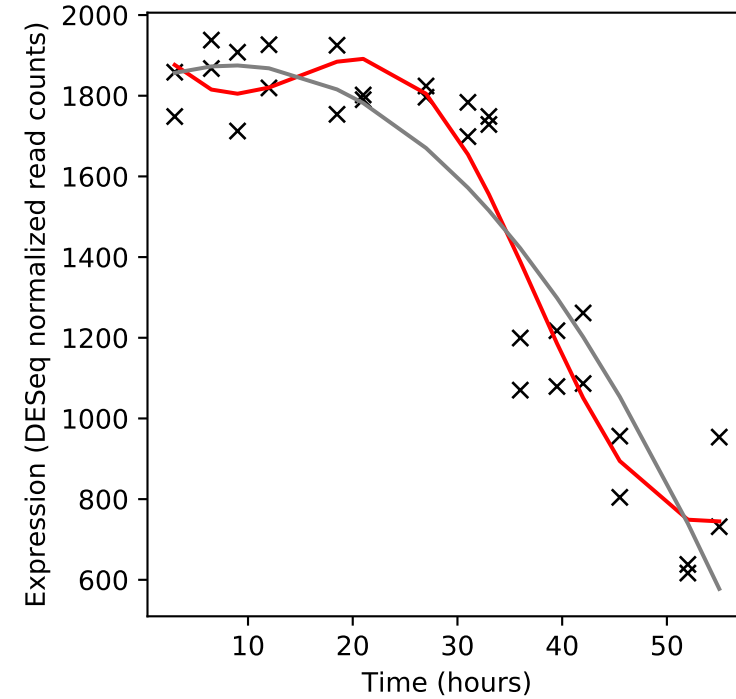
Rv0949/uvrD1



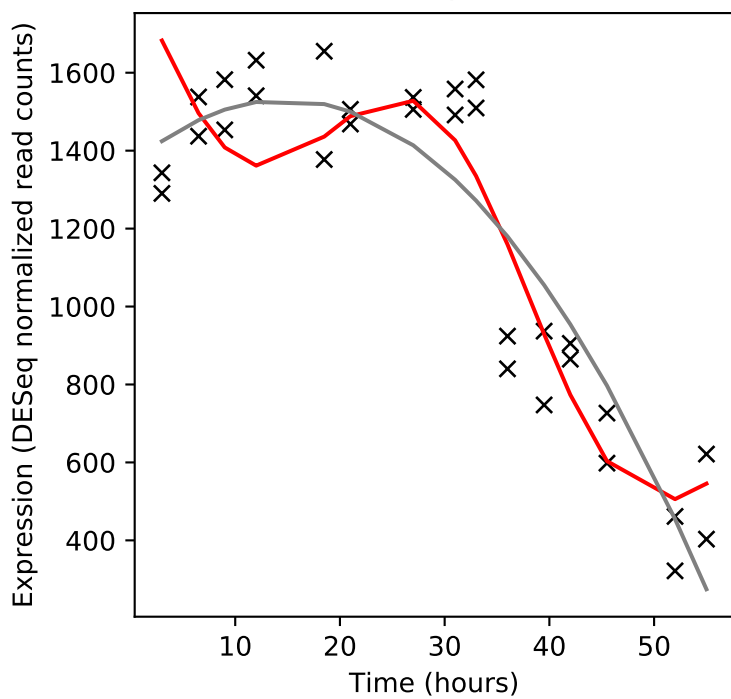
Rv0950c/-



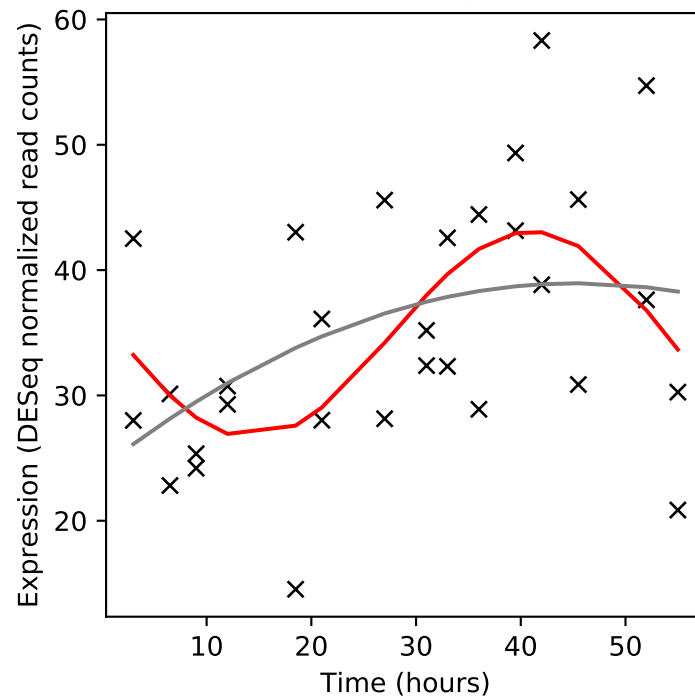
Rv0951/sucC



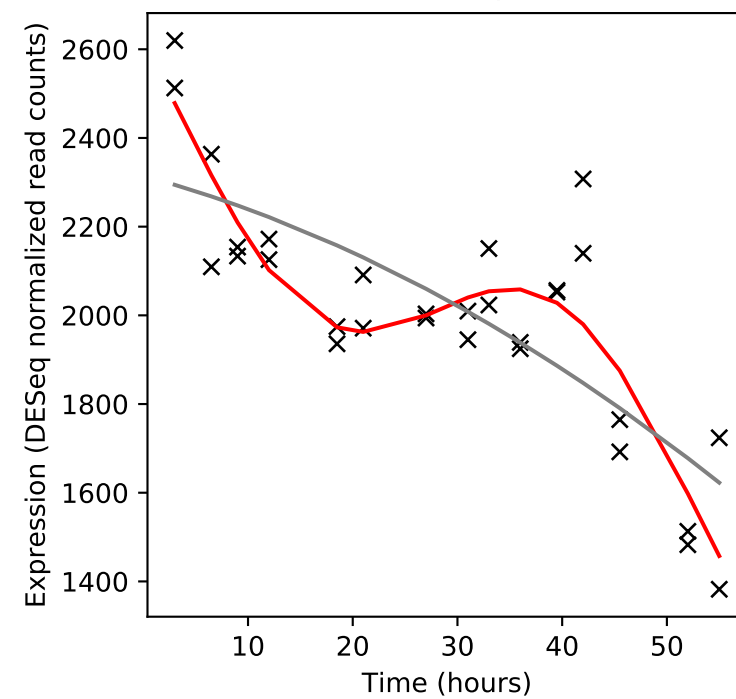
Rv0952/sucD



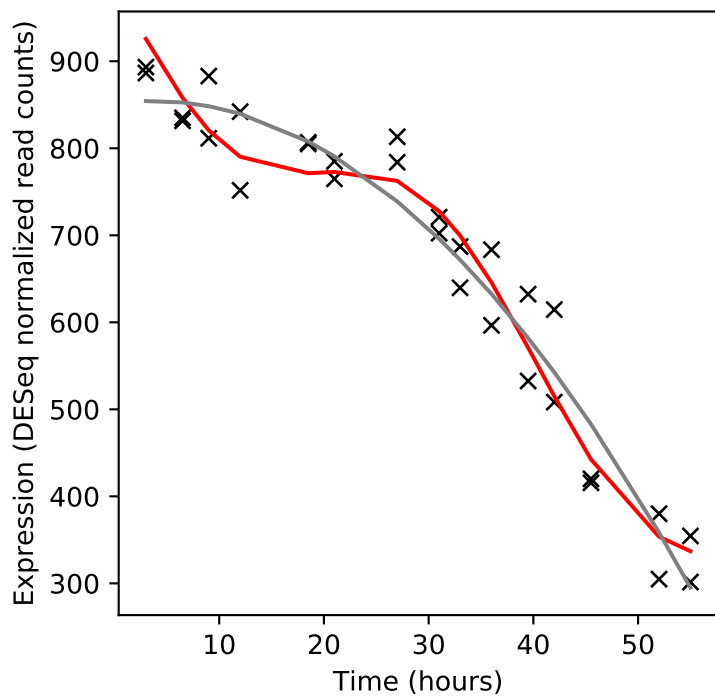
Rv0953c/-



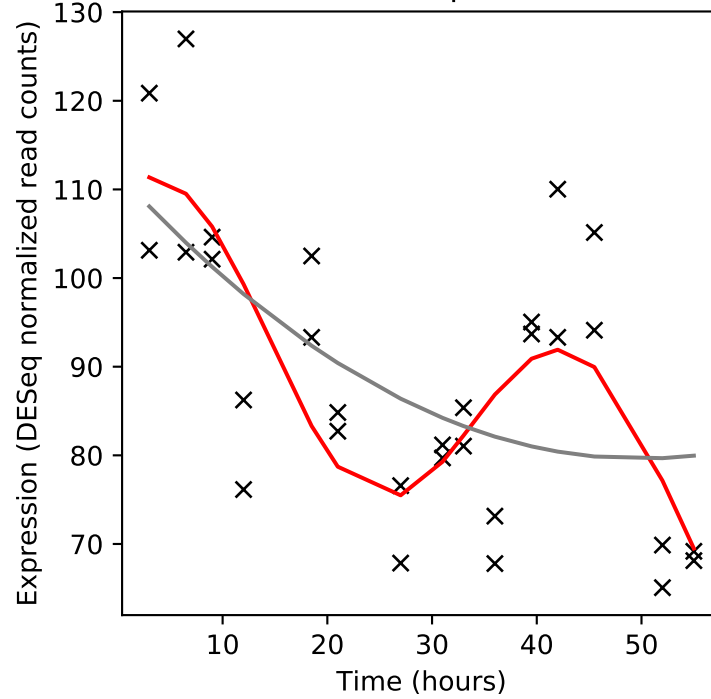
Rv0954/-



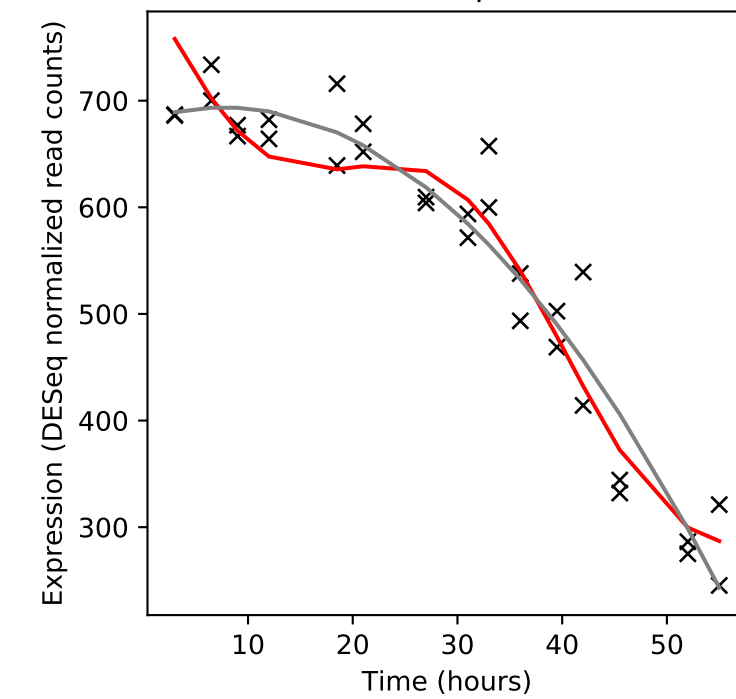
Rv0955/-



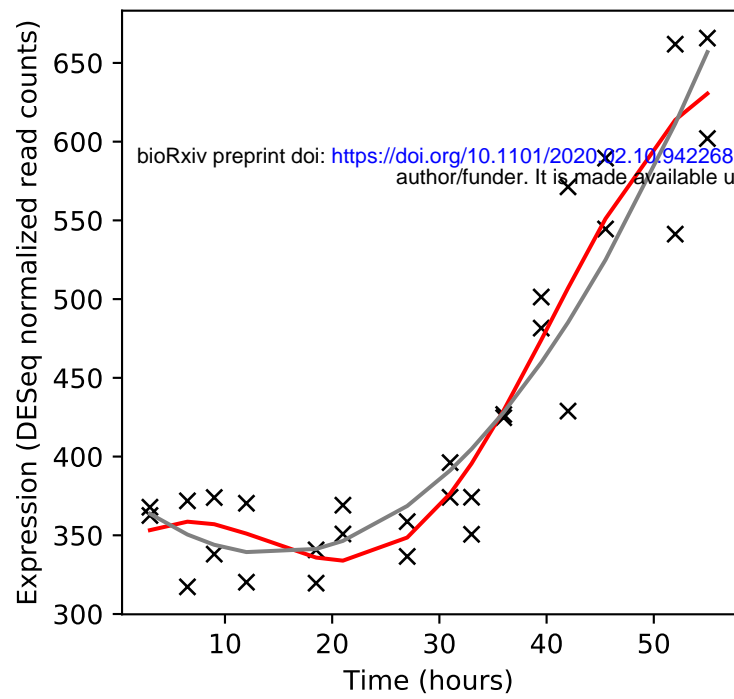
Rv0956/purN



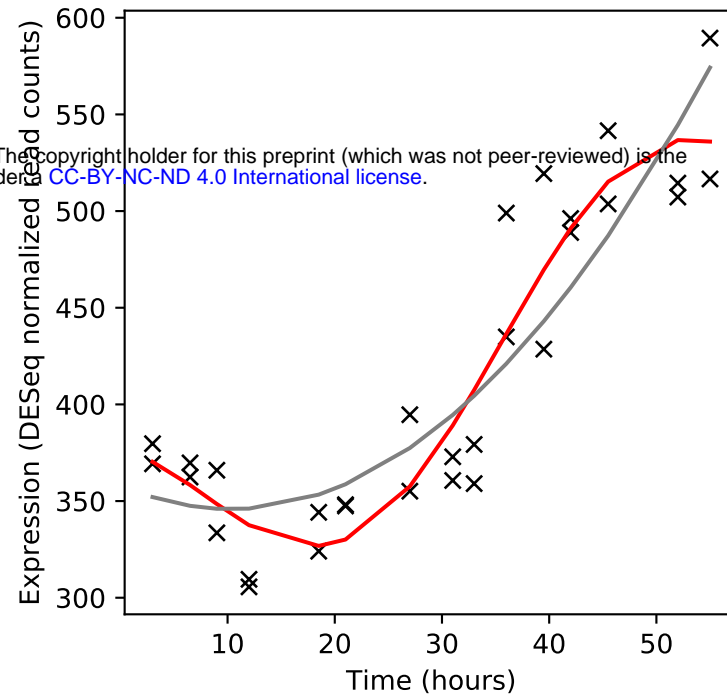
Rv0957/purH



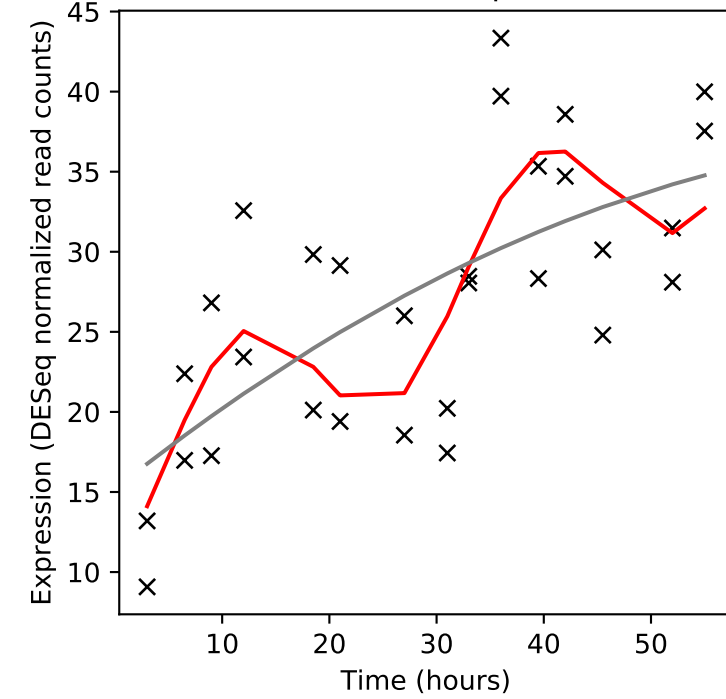
Rv0958/-



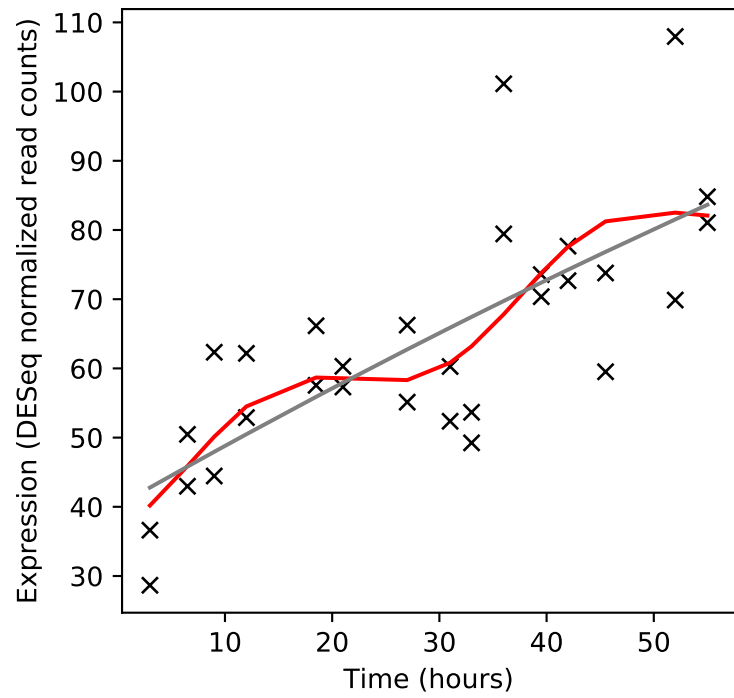
Rv0959/-



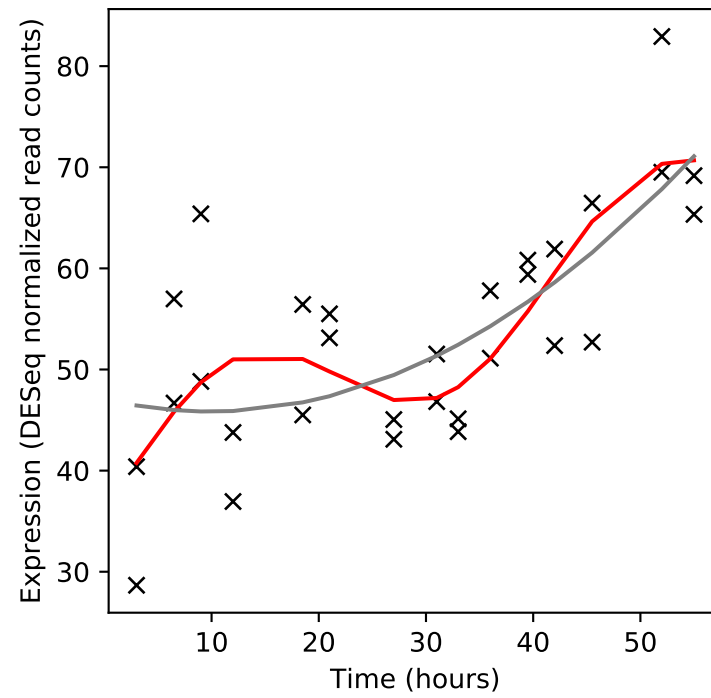
Rv0959A/vapB9



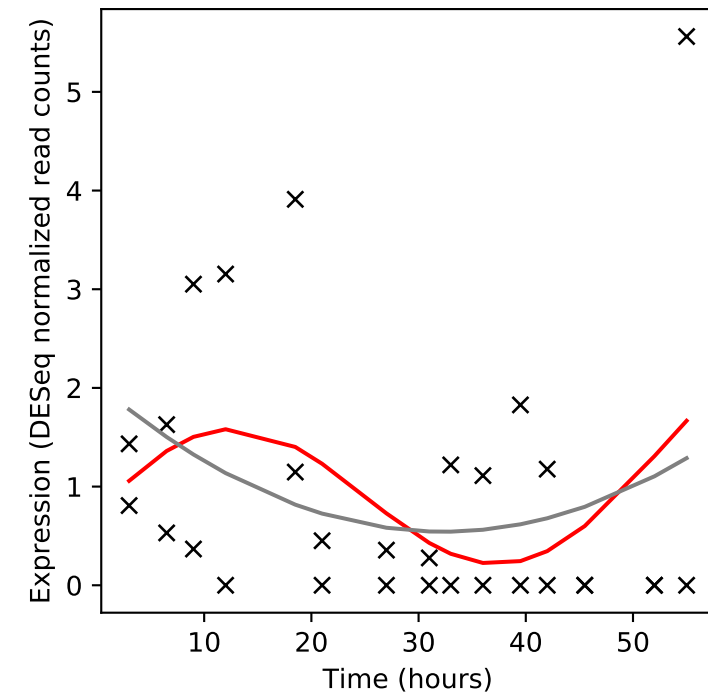
Rv0960/vapC9



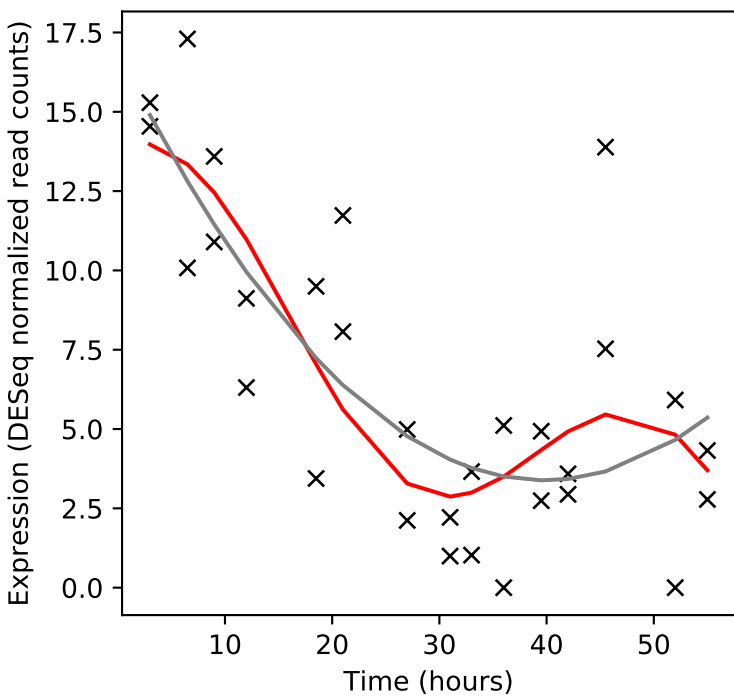
Rv0961/-



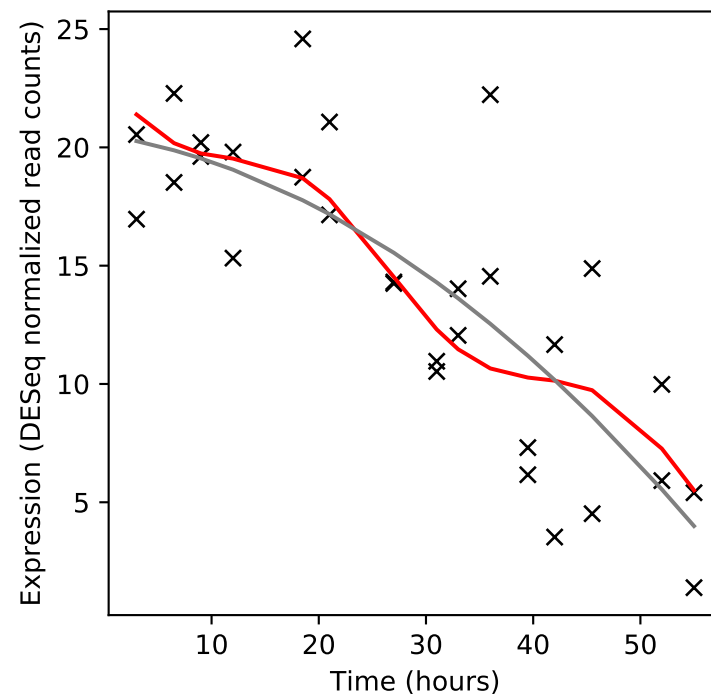
Rv0962c/lprP



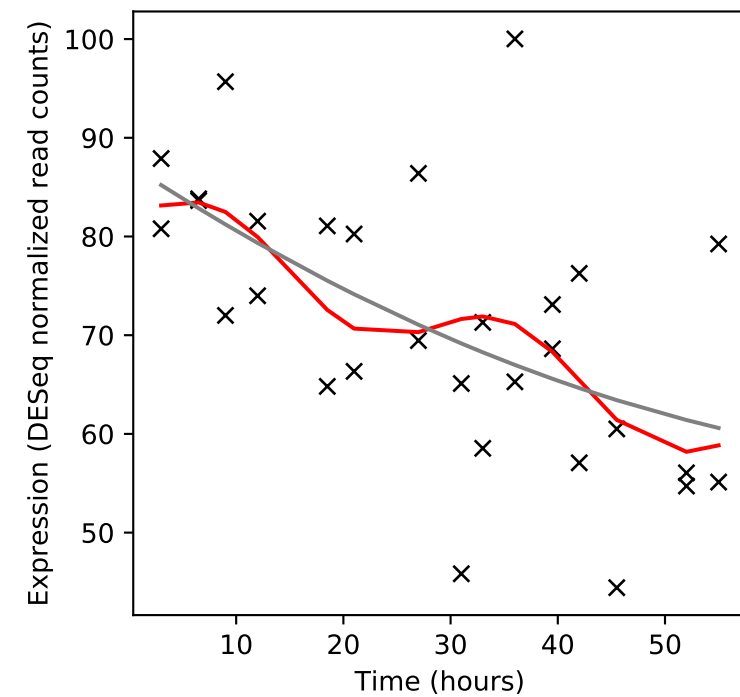
Rv0963c/-



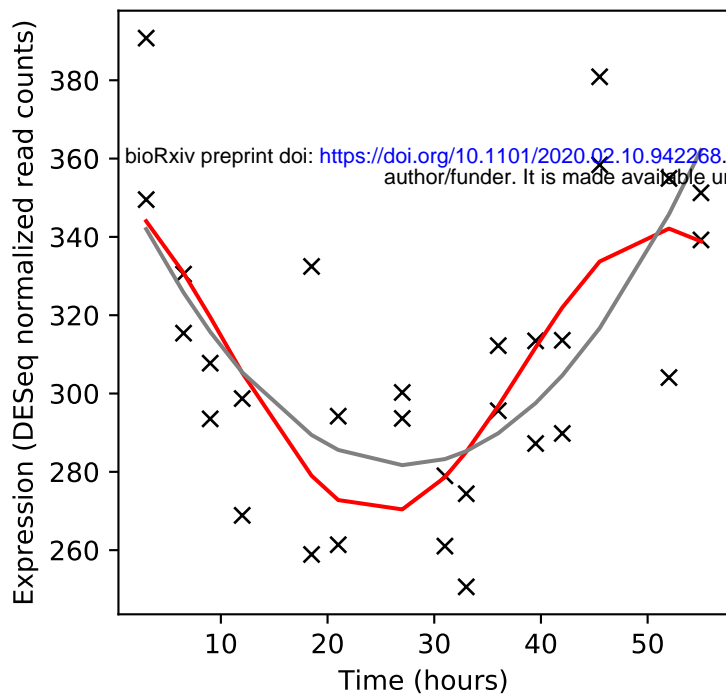
Rv0964c/-



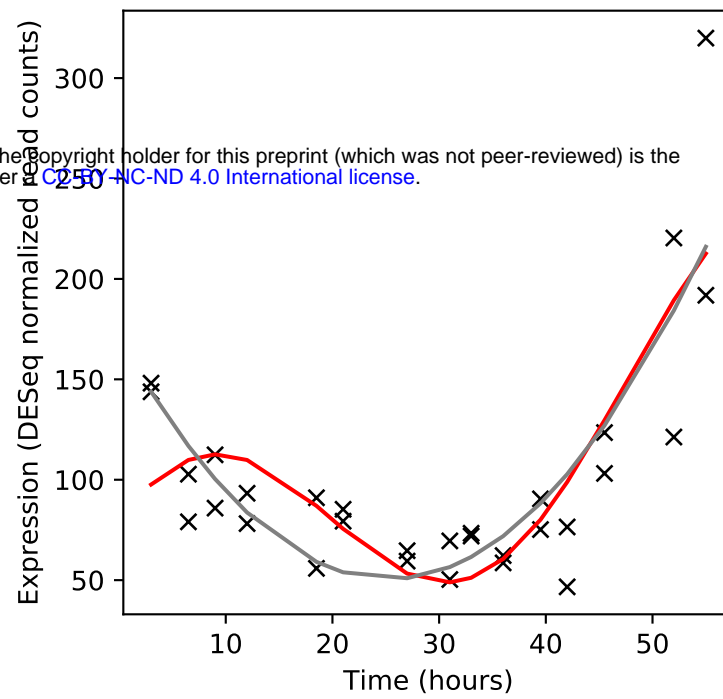
Rv0965c/-



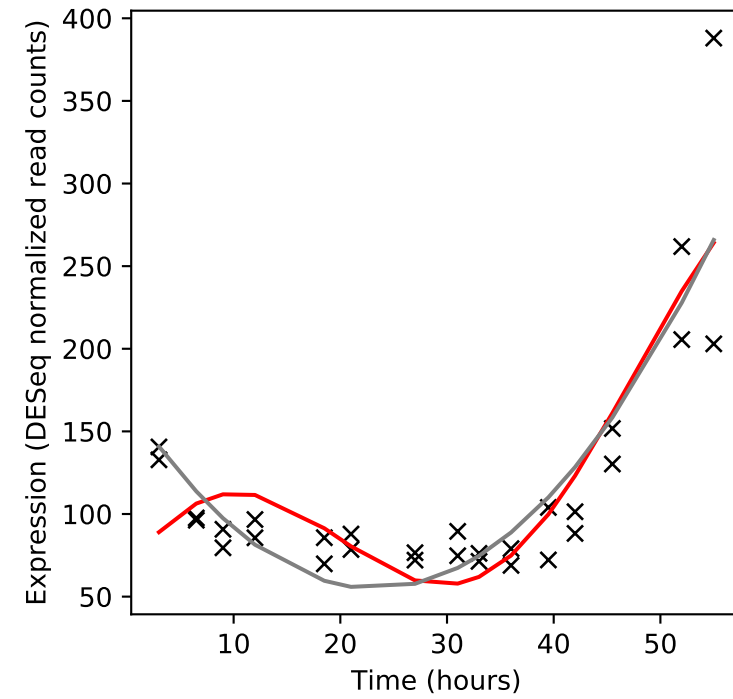
Rv0966c/-



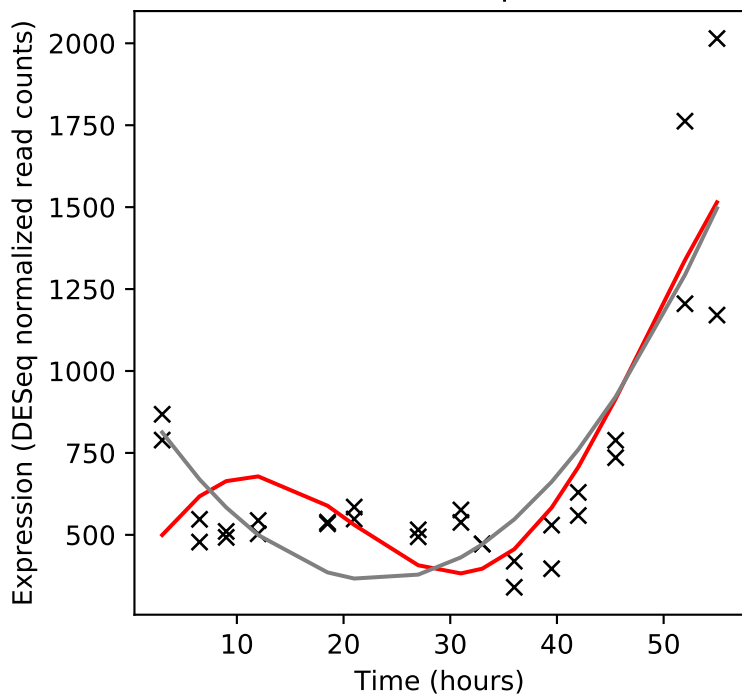
Rv0967/csoR



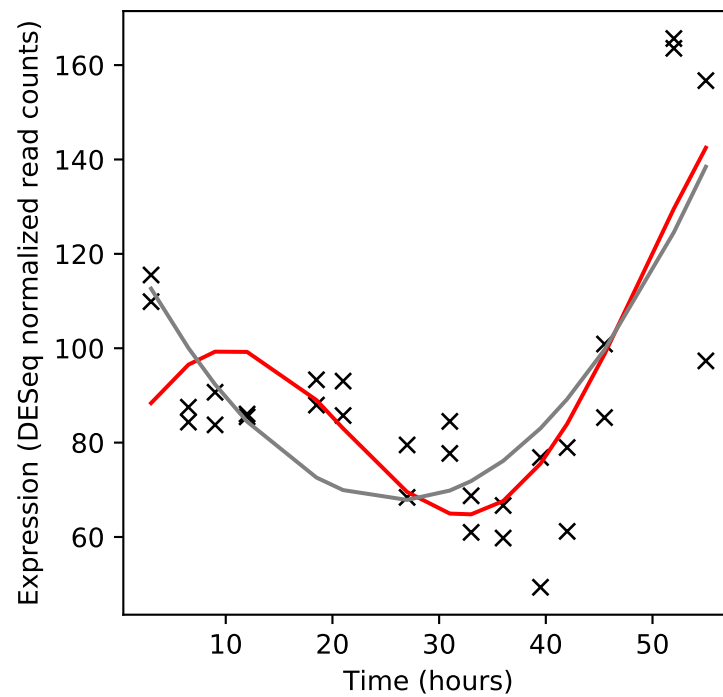
Rv0968/-



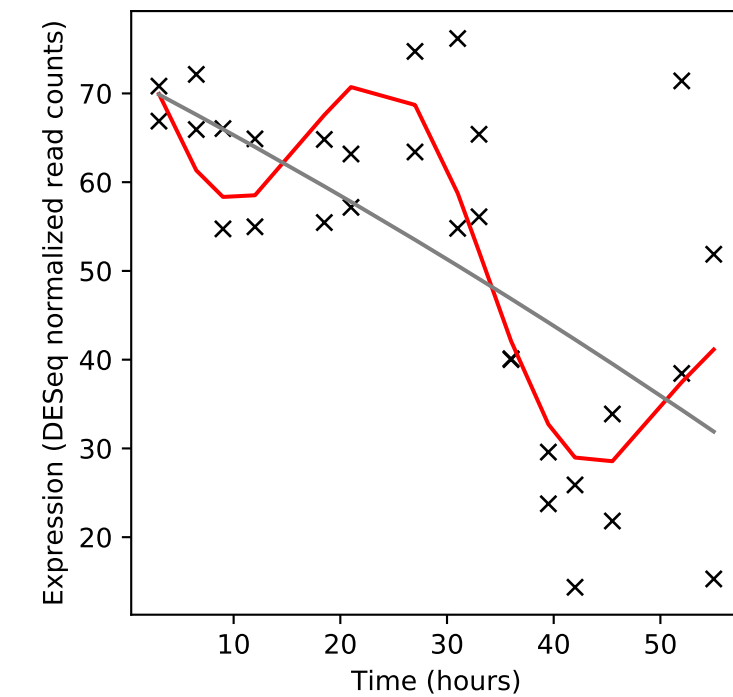
Rv0969/ctpV



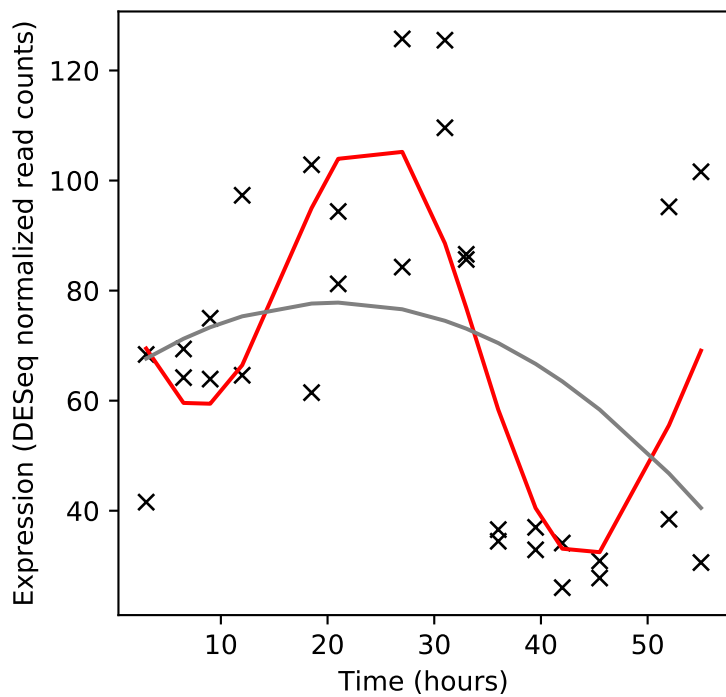
Rv0970/-



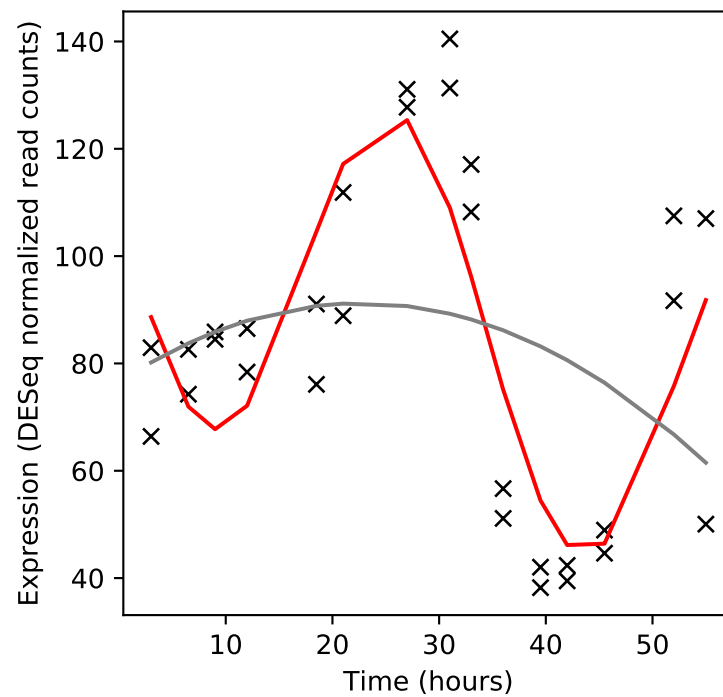
Rv0971c/echA7



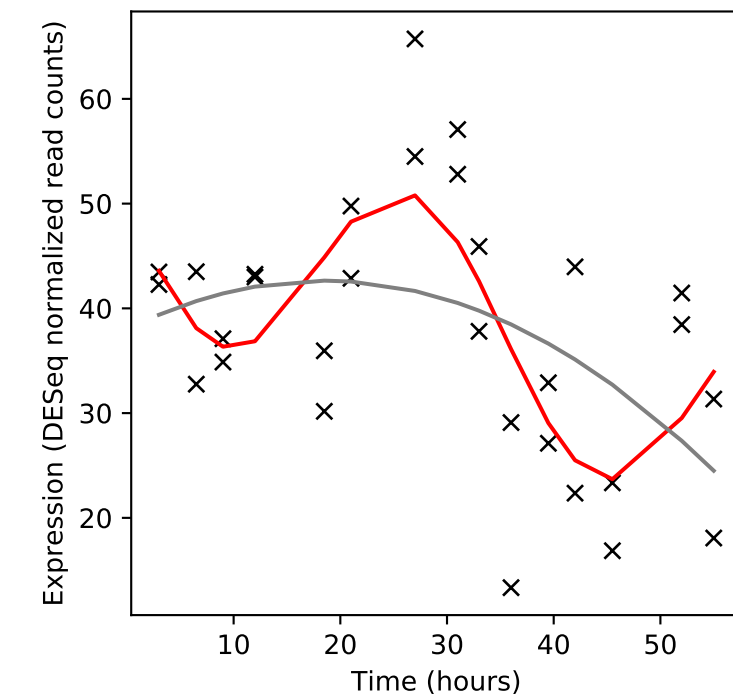
Rv0972c/fadE12



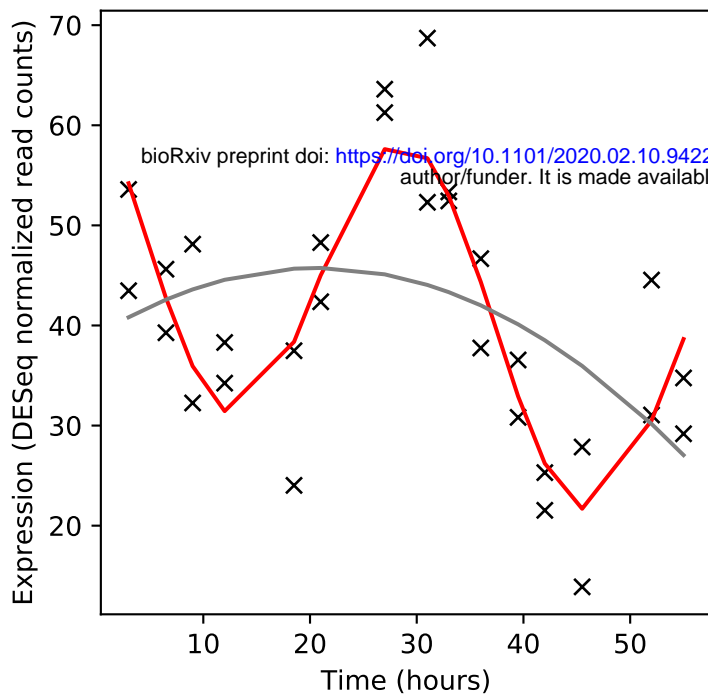
Rv0973c/accA2



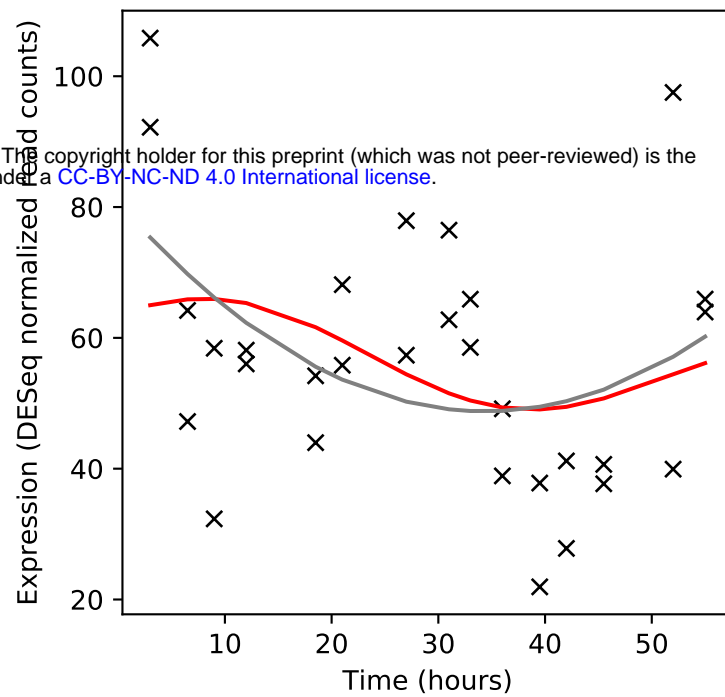
Rv0974c/accD2



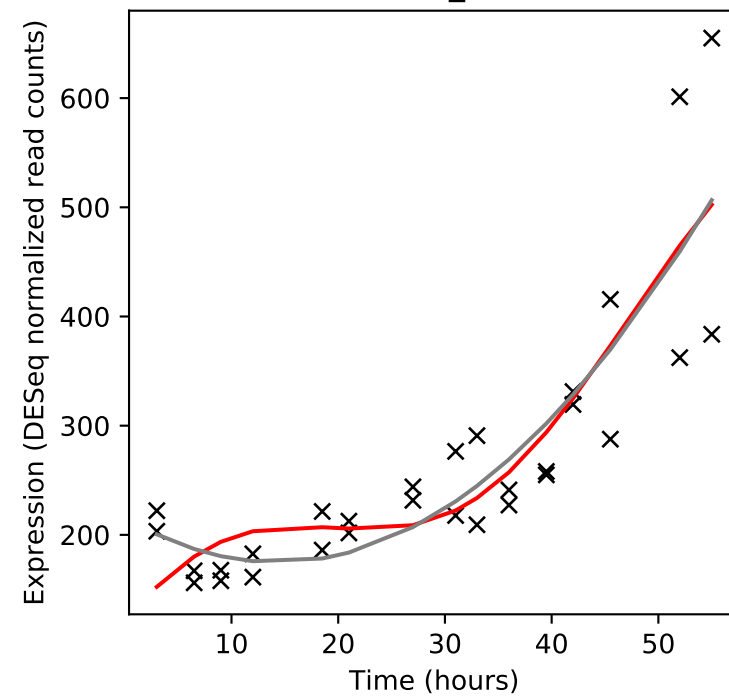
Rv0975c/fadE13



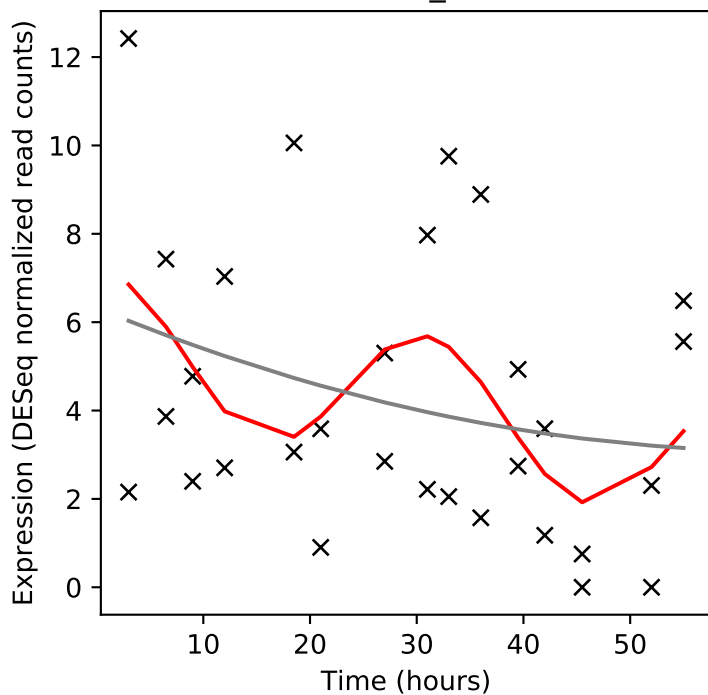
Rv0976c/-



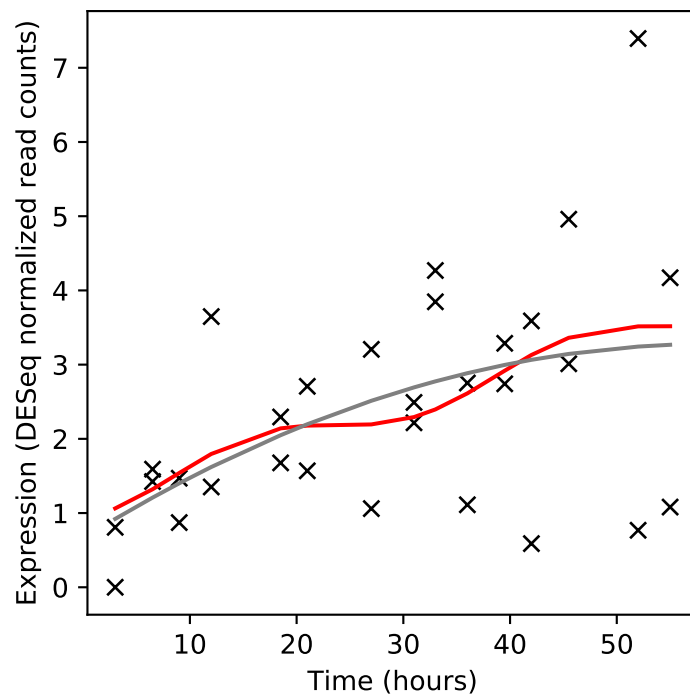
Rv0977/PE_PGRS16



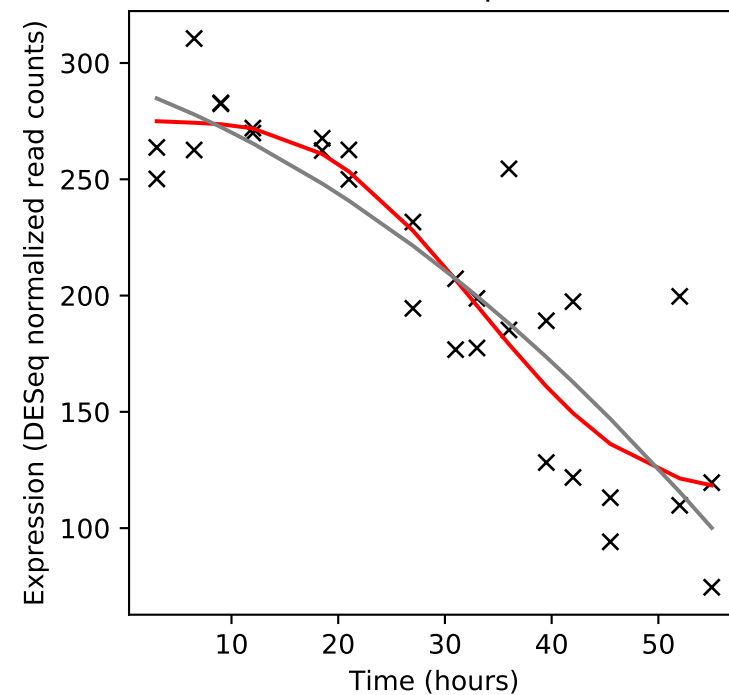
Rv0978c/PE_PGRS17



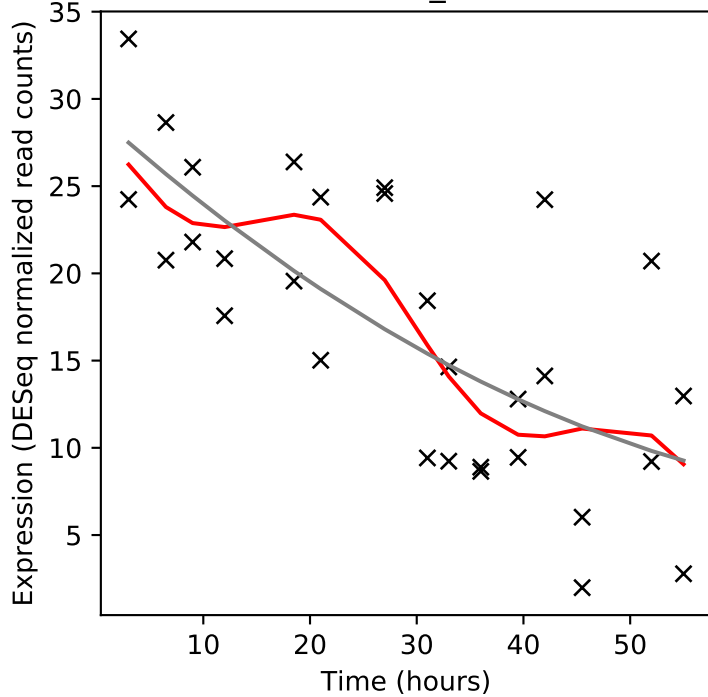
Rv0979c/-



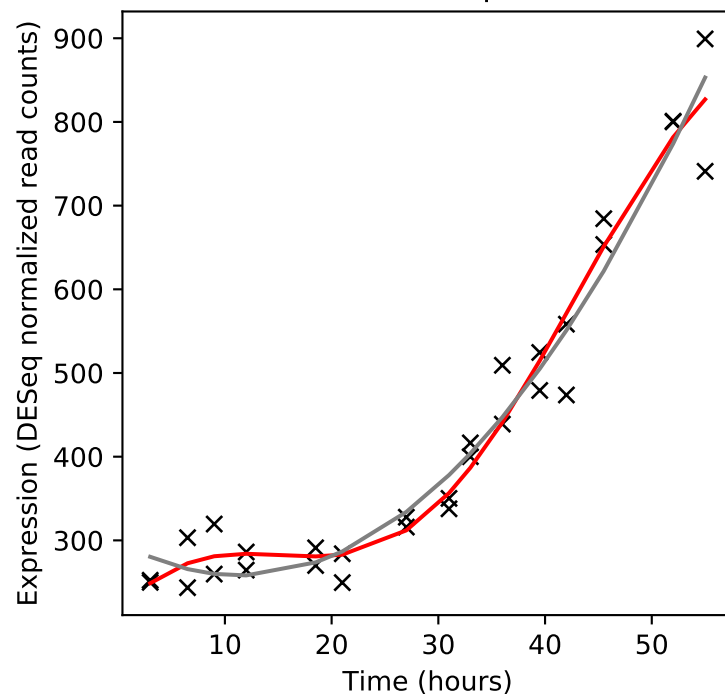
Rv0979A/rpmF



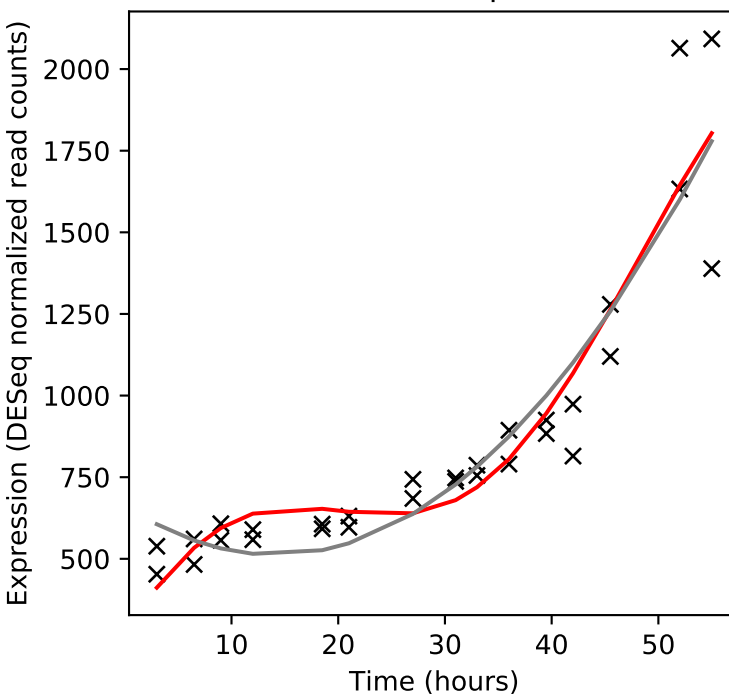
Rv0980c/PE_PGRS18



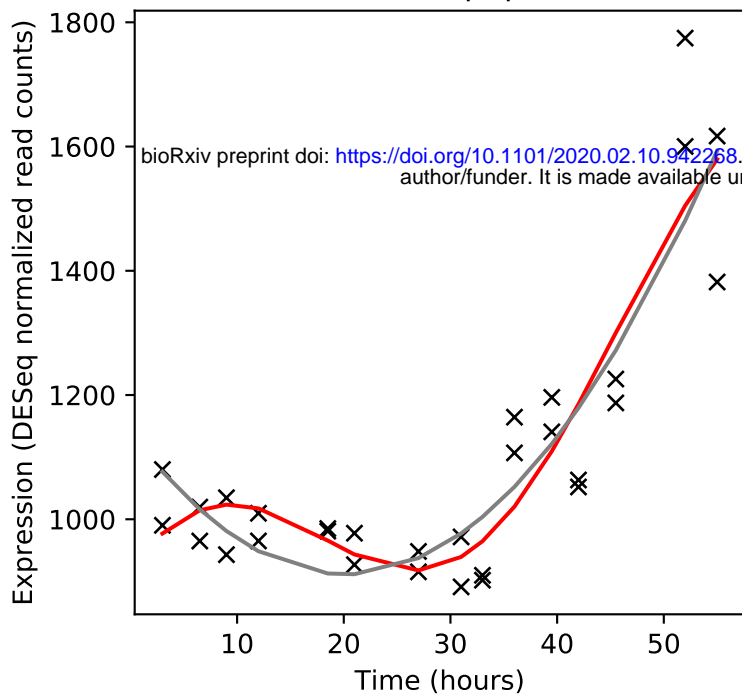
Rv0981/mprA



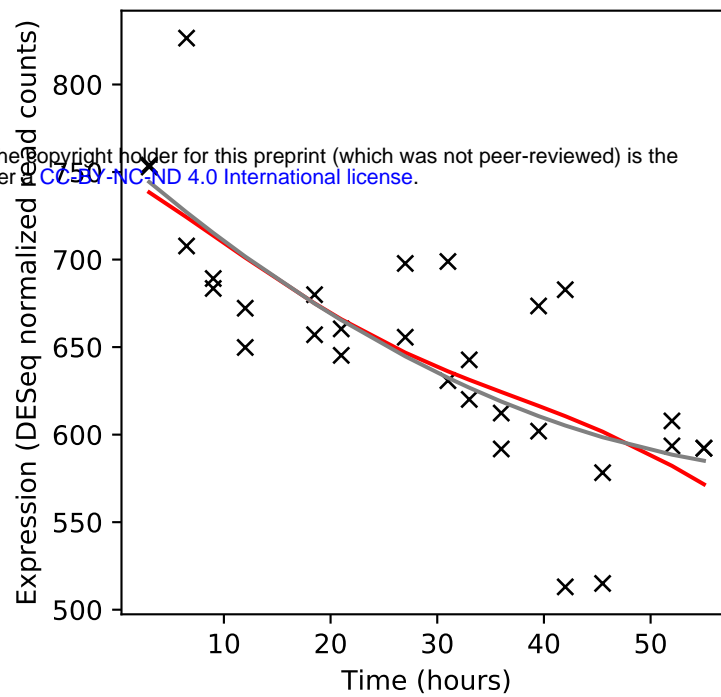
Rv0982/mprB



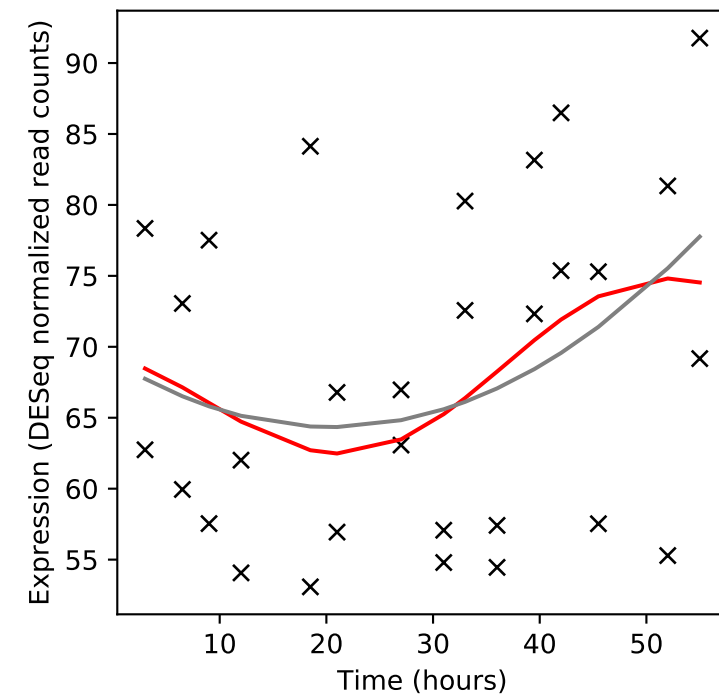
Rv0983/pepD



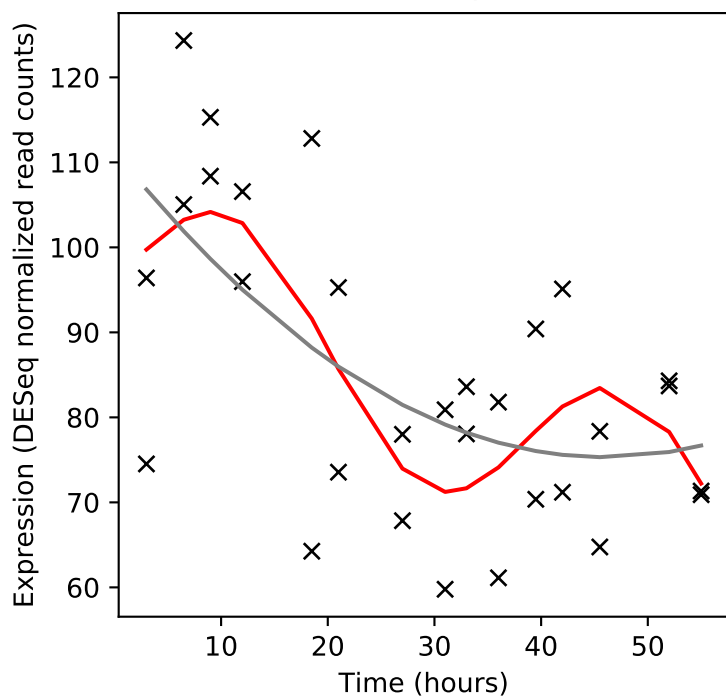
Rv0984/moaB2



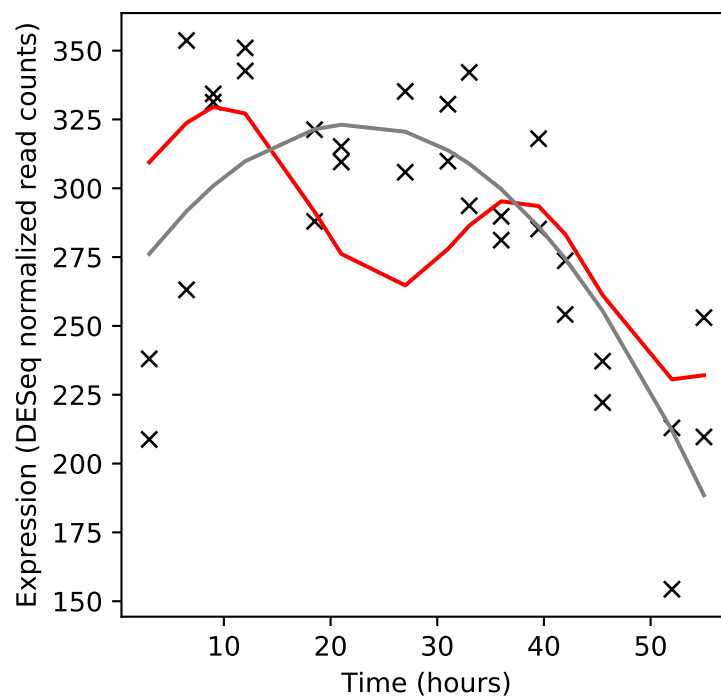
Rv0985c/mscL



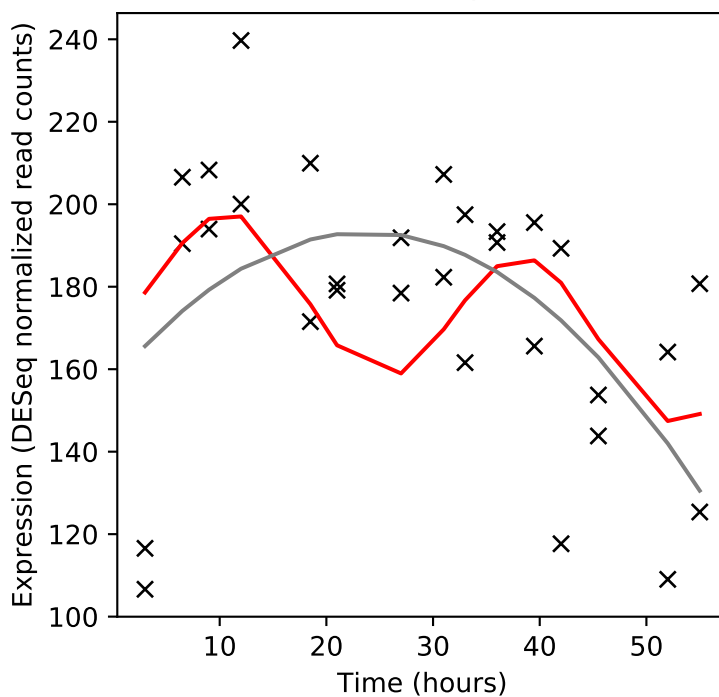
Rv0986/-



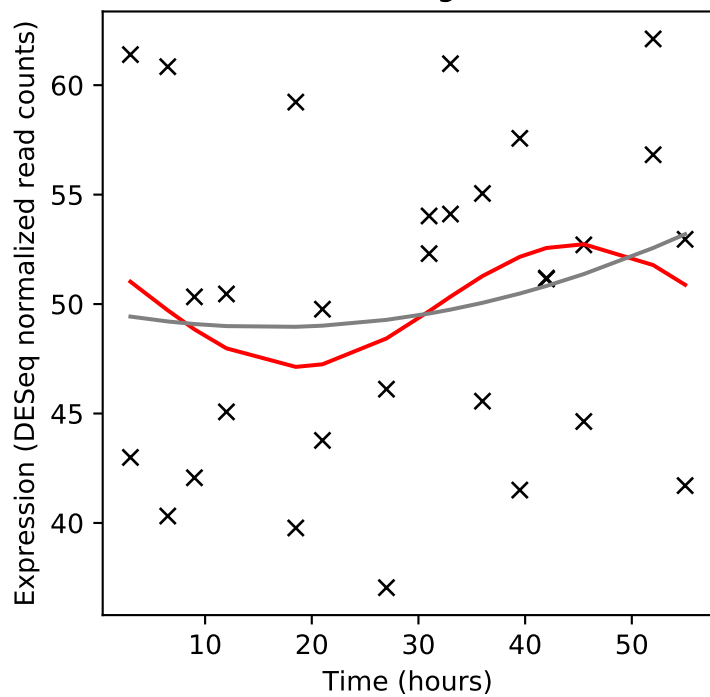
Rv0987/-



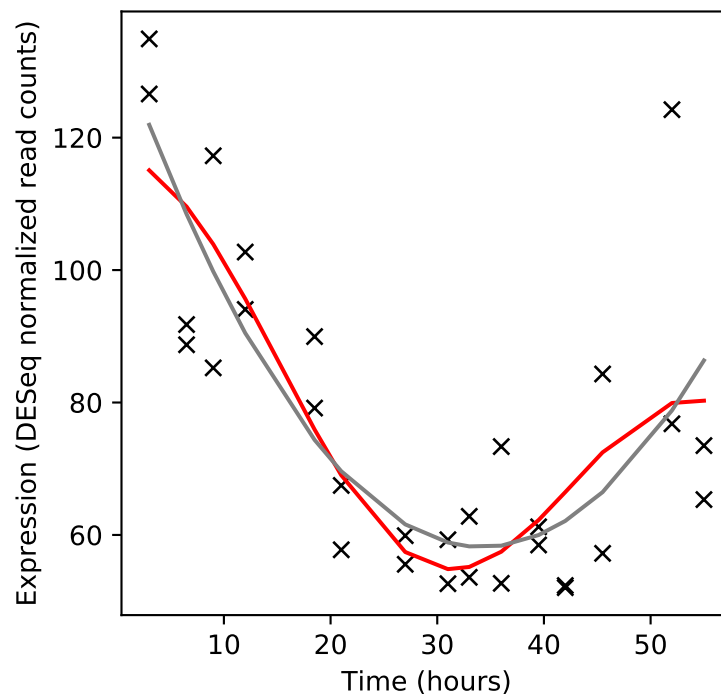
Rv0988/-



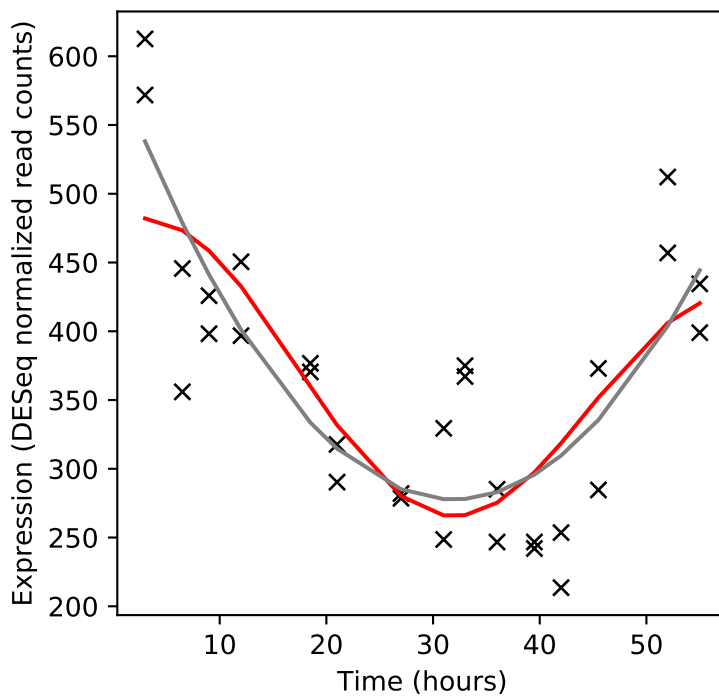
Rv0989c/grcC2



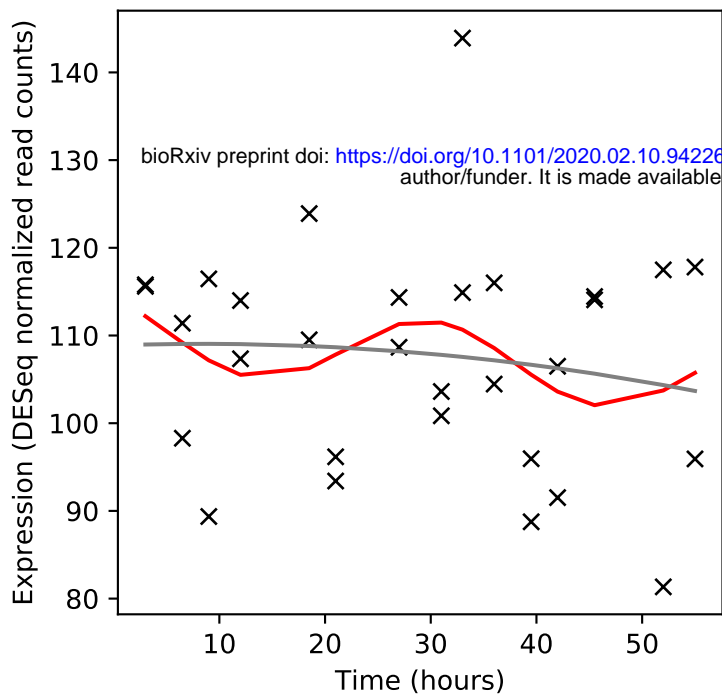
Rv0990c/-



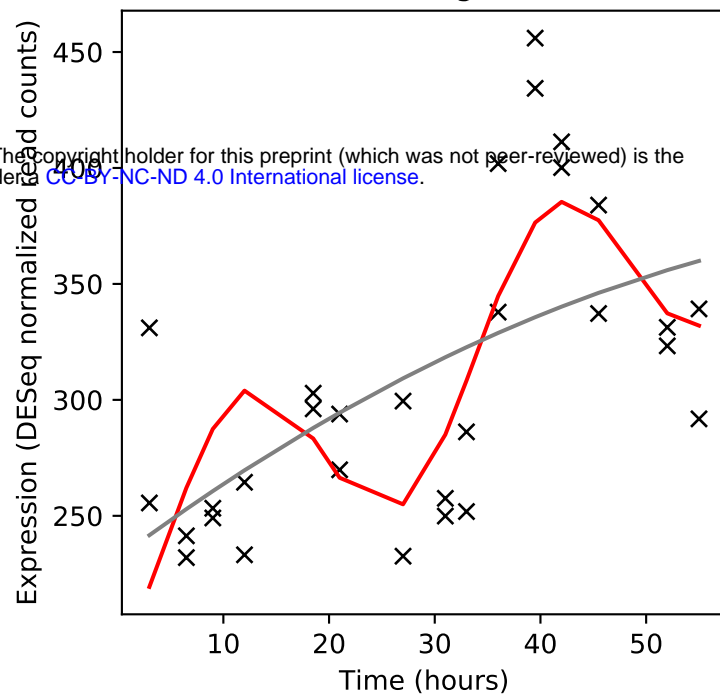
Rv0991c/-



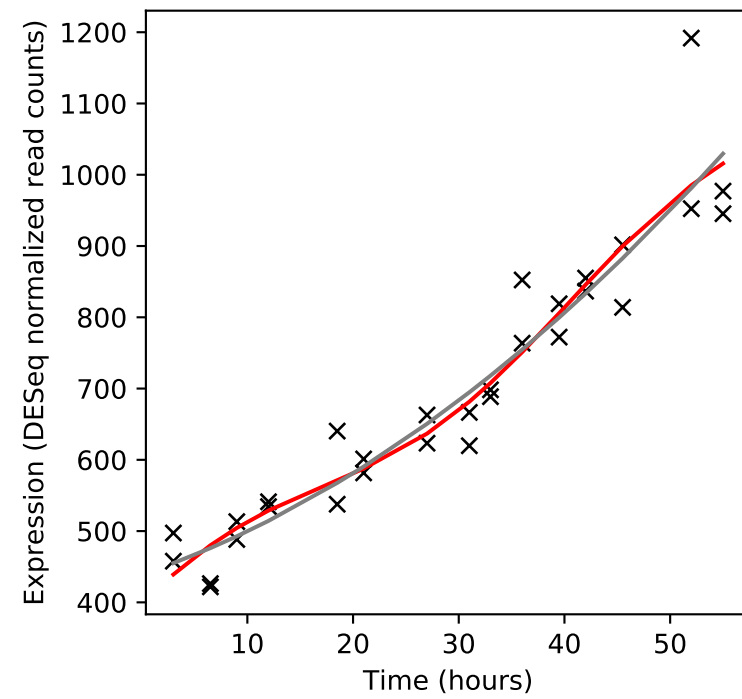
Rv0992c/-



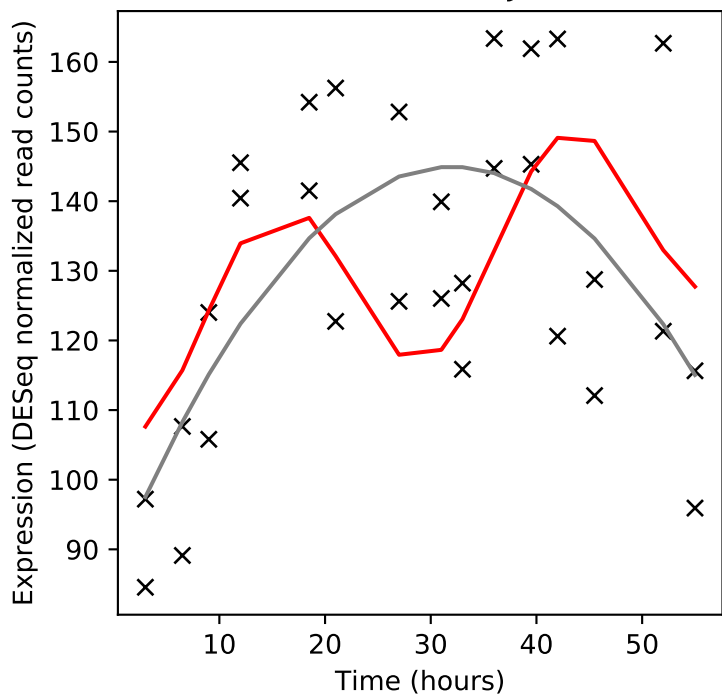
Rv0993/galU



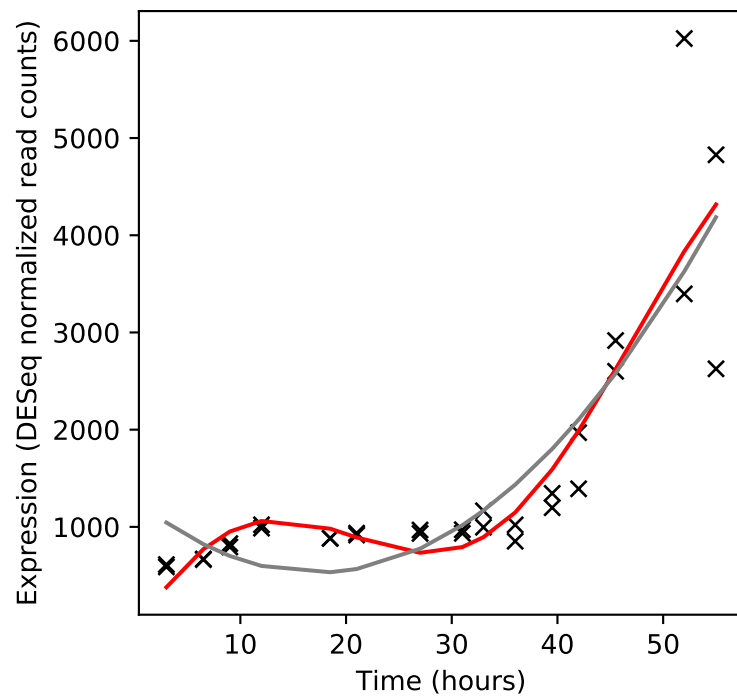
Rv0994/moeA1



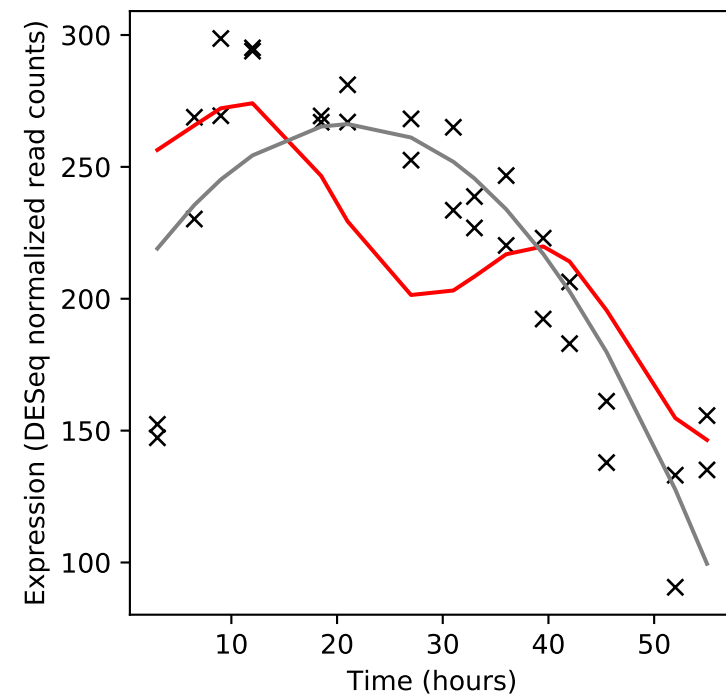
Rv0995/rimJ



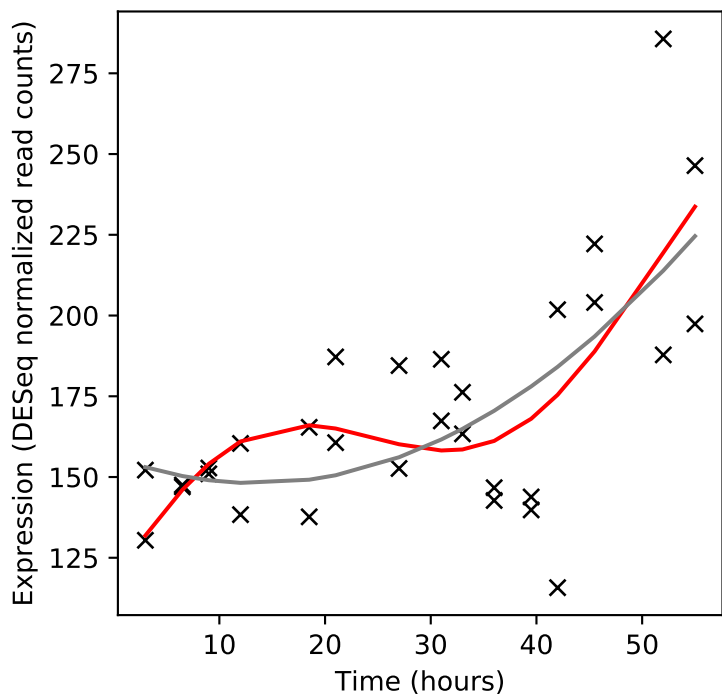
Rv0996/-



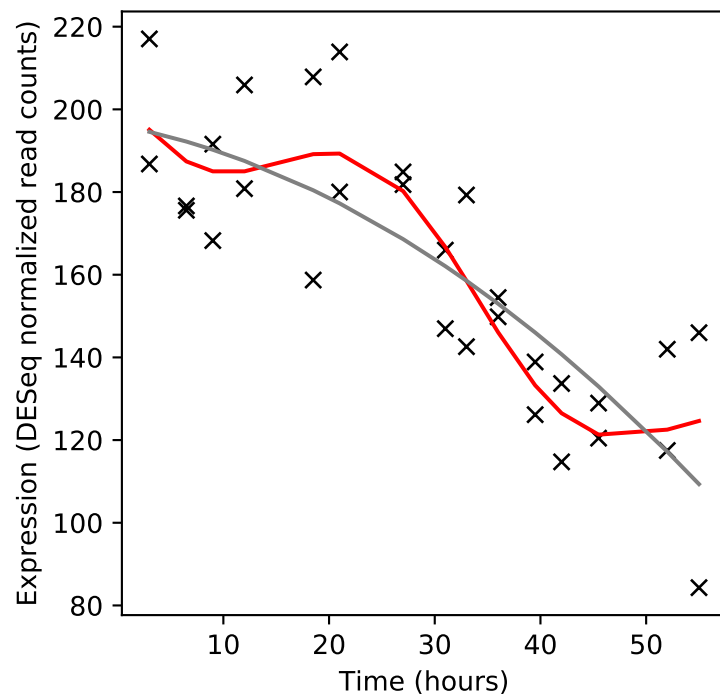
Rv0997/-



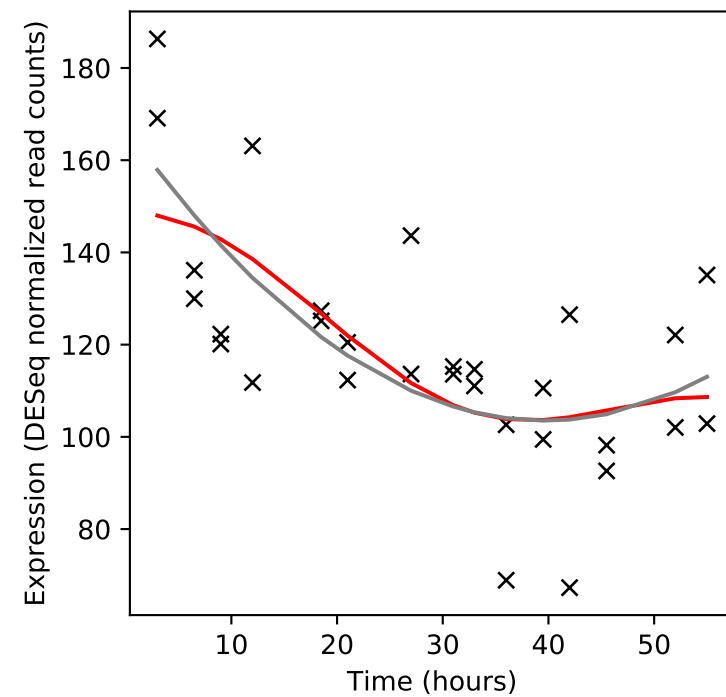
Rv0998/-



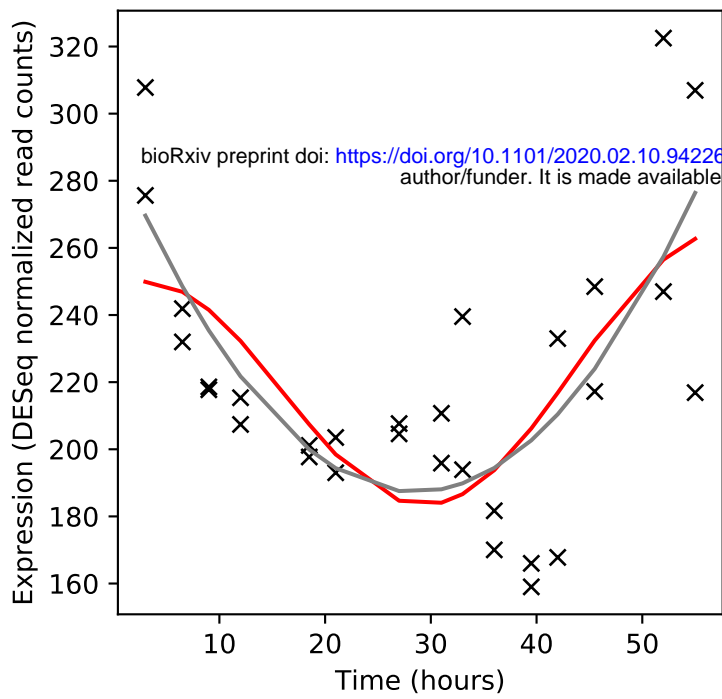
Rv0999/-



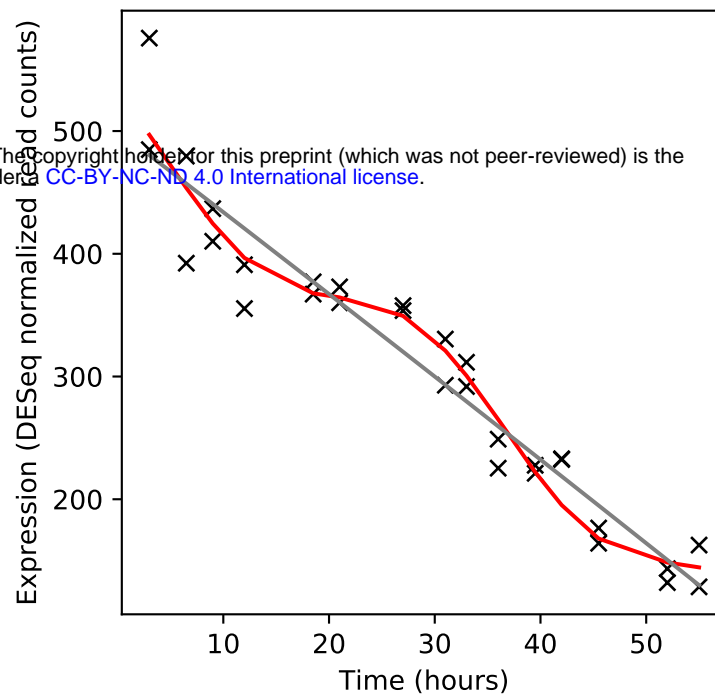
Rv1000c/-



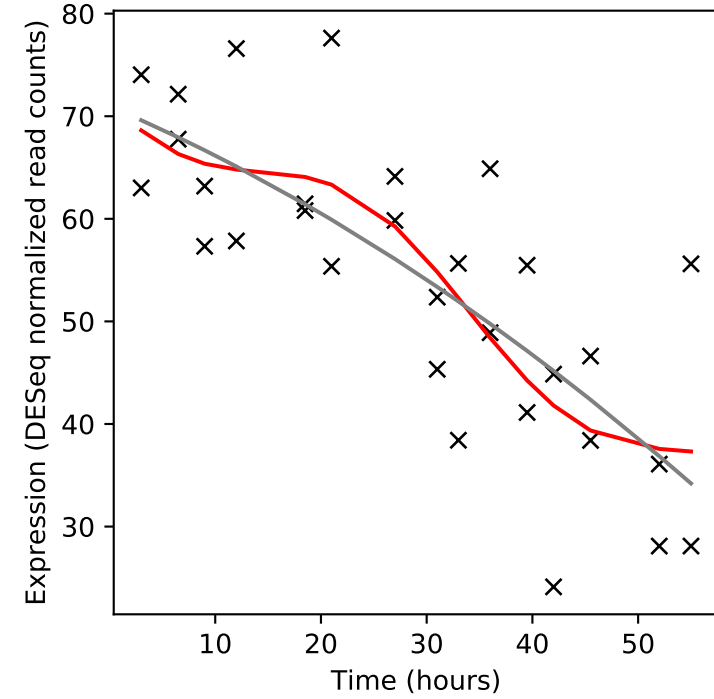
Rv1001/arcA



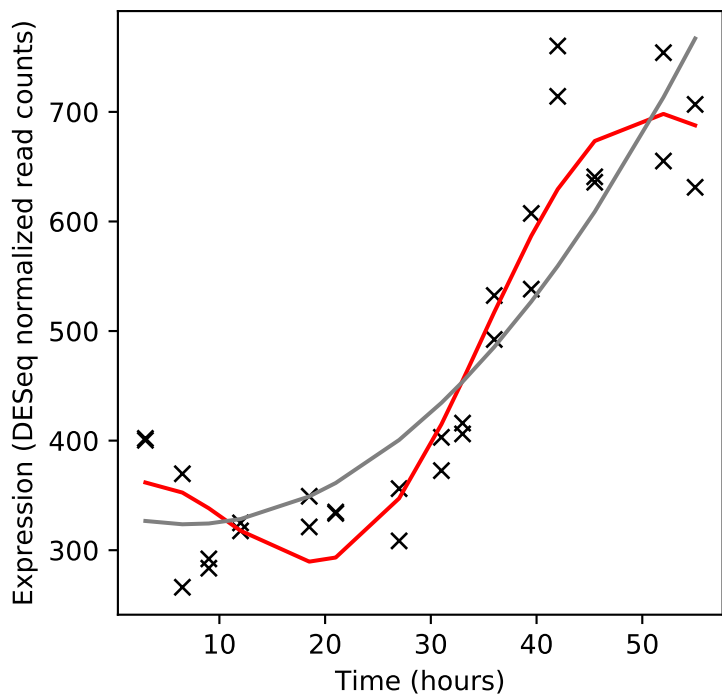
Rv1002c/-



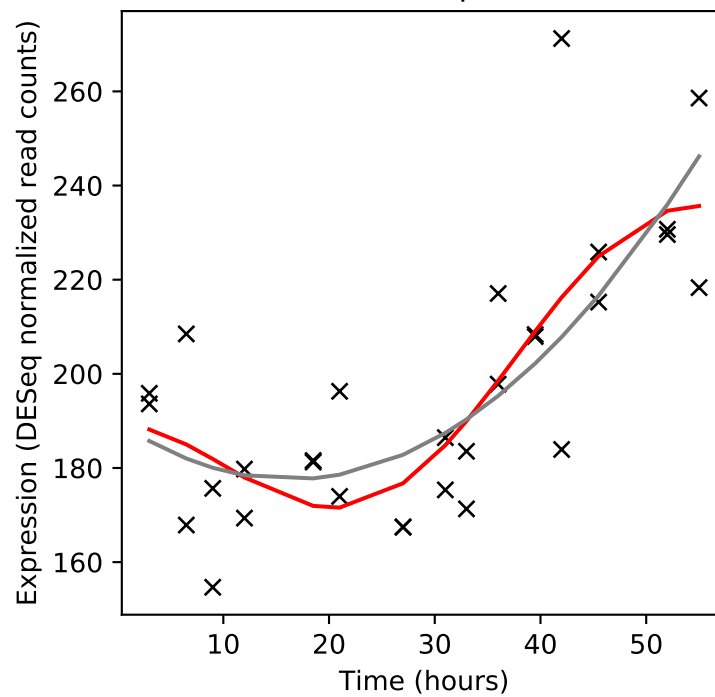
Rv1003/-



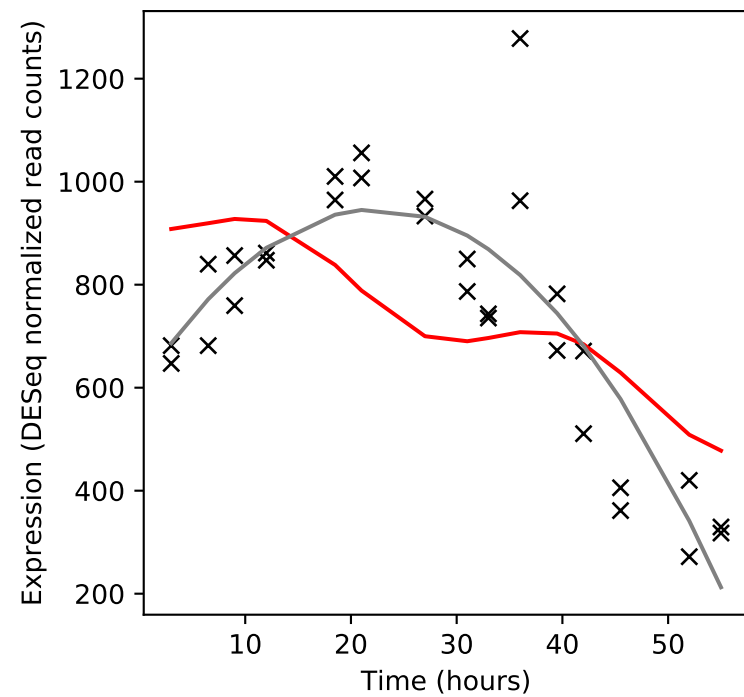
Rv1004c/-



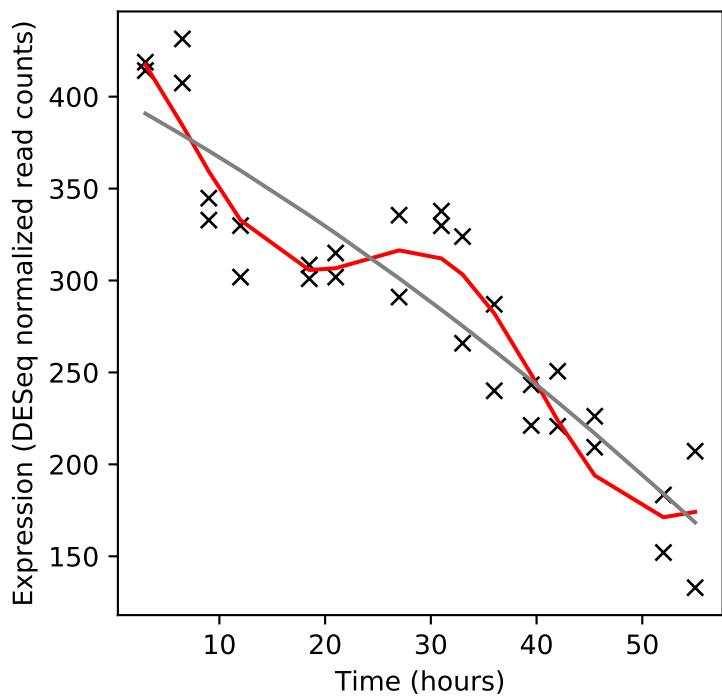
Rv1005c/pabB



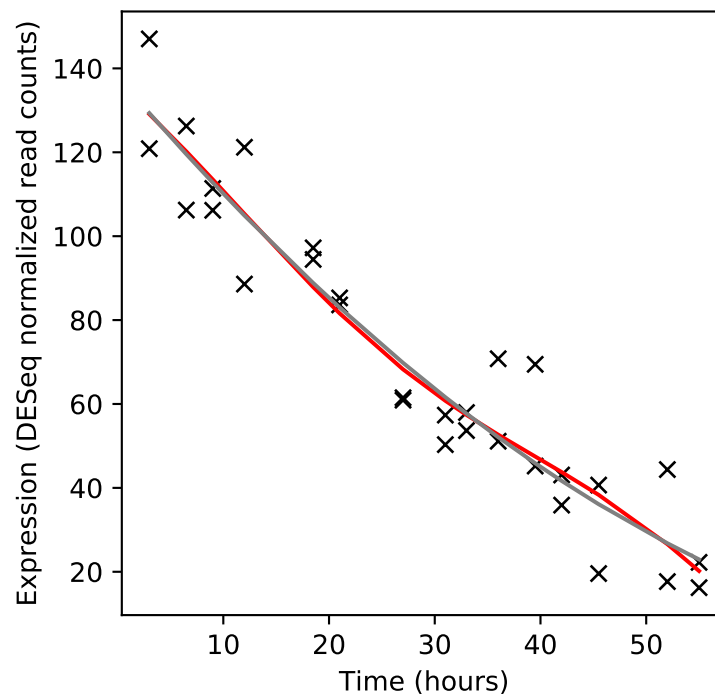
Rv1006/-



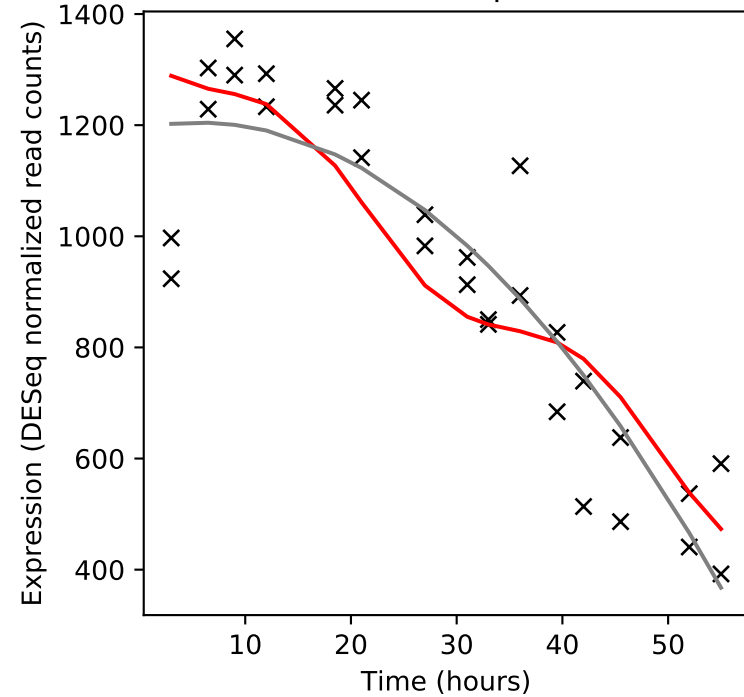
Rv1007c/metS



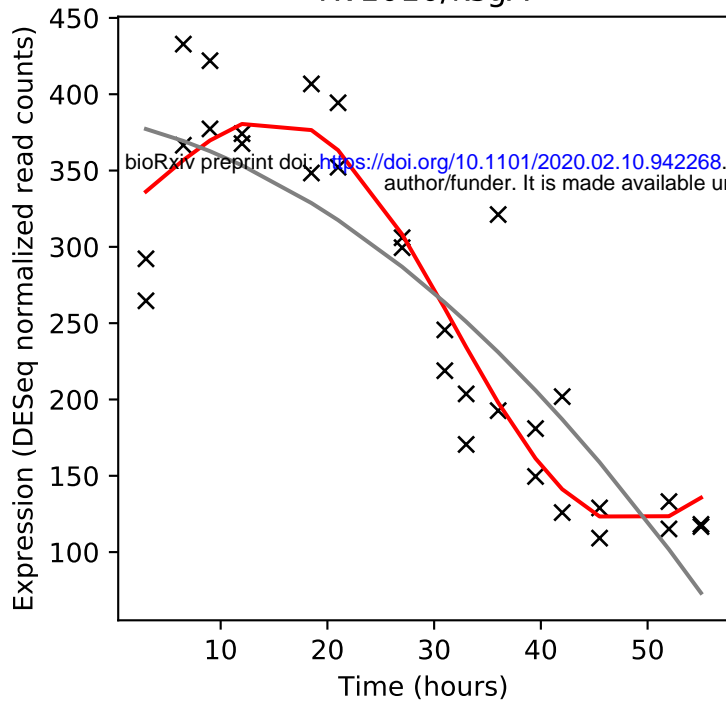
Rv1008/tatD



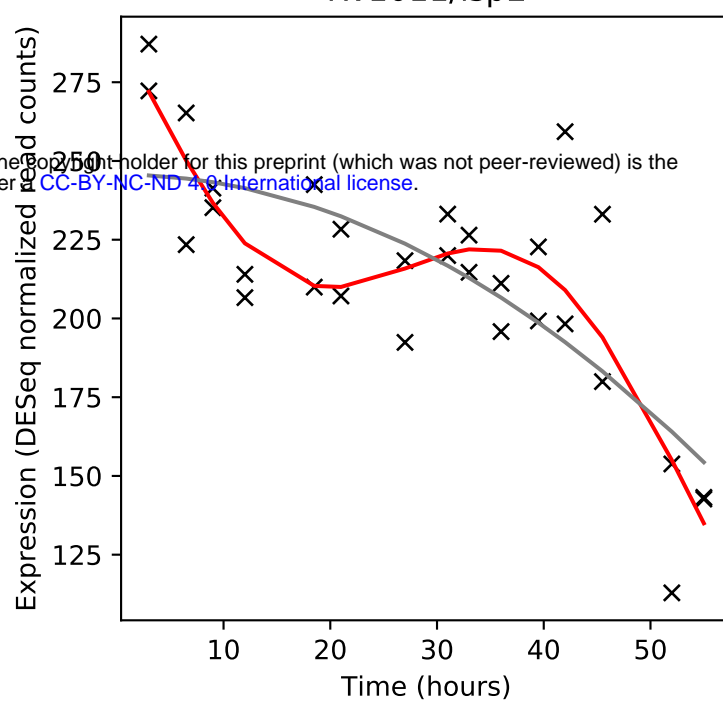
Rv1009/rpfB



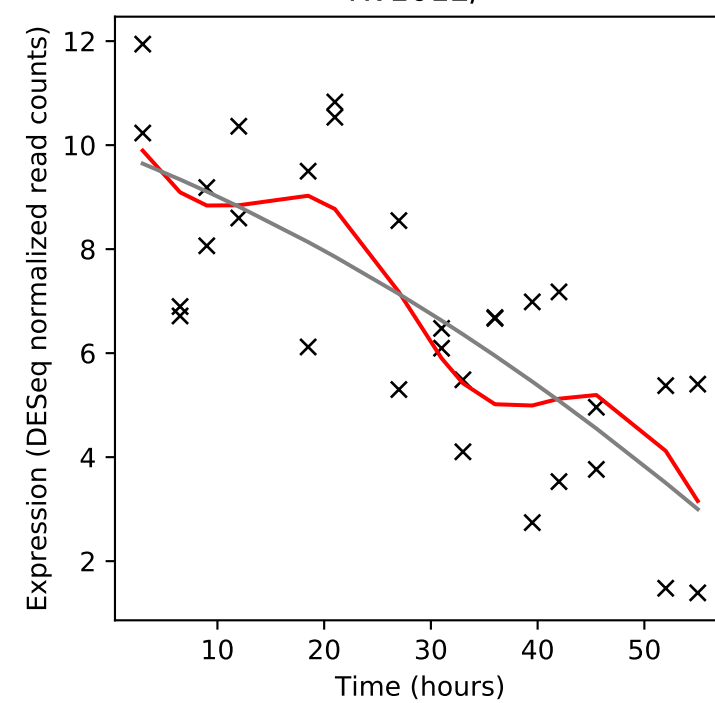
Rv1010/ksgA



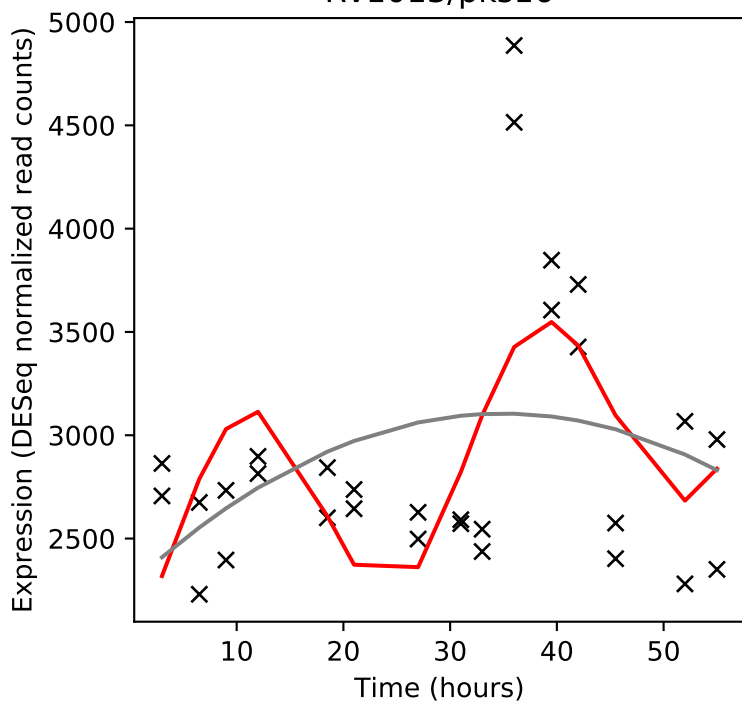
Rv1011/ispE



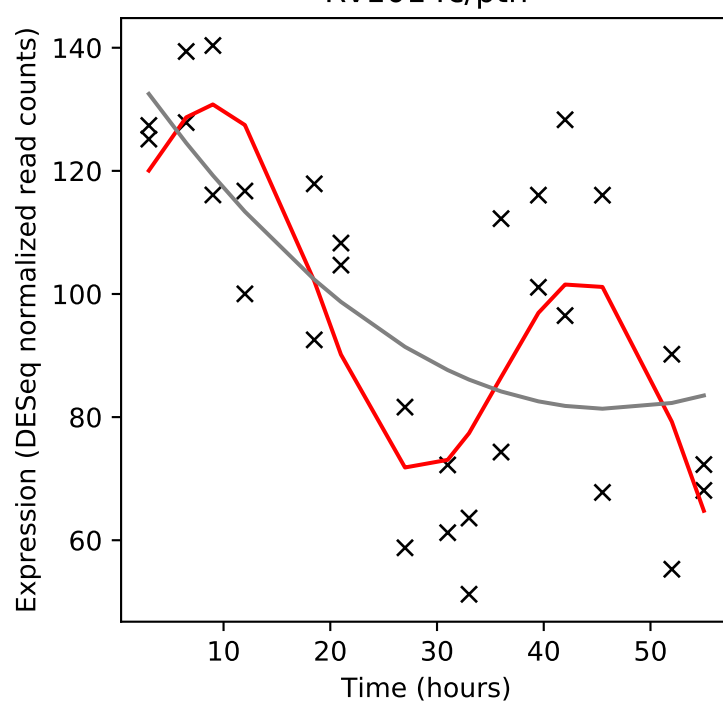
Rv1012/-



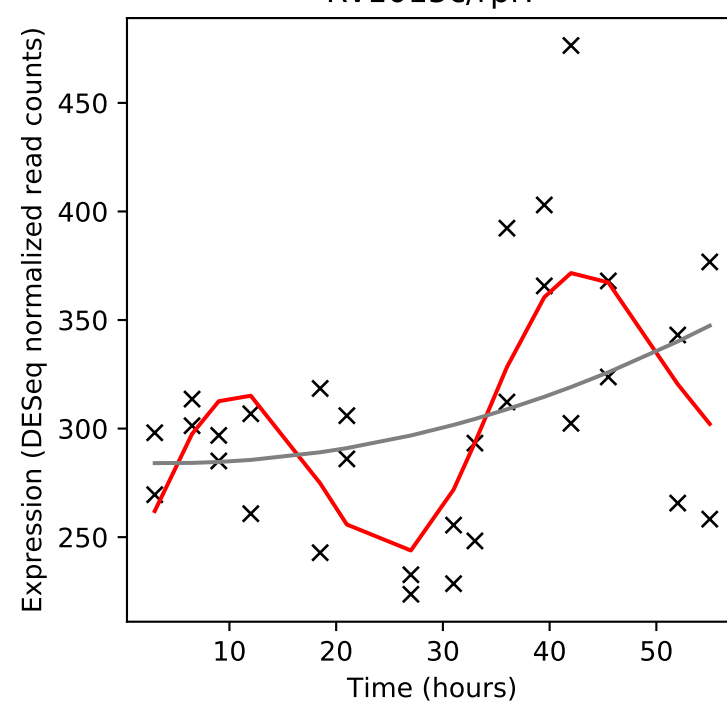
Rv1013/pks16



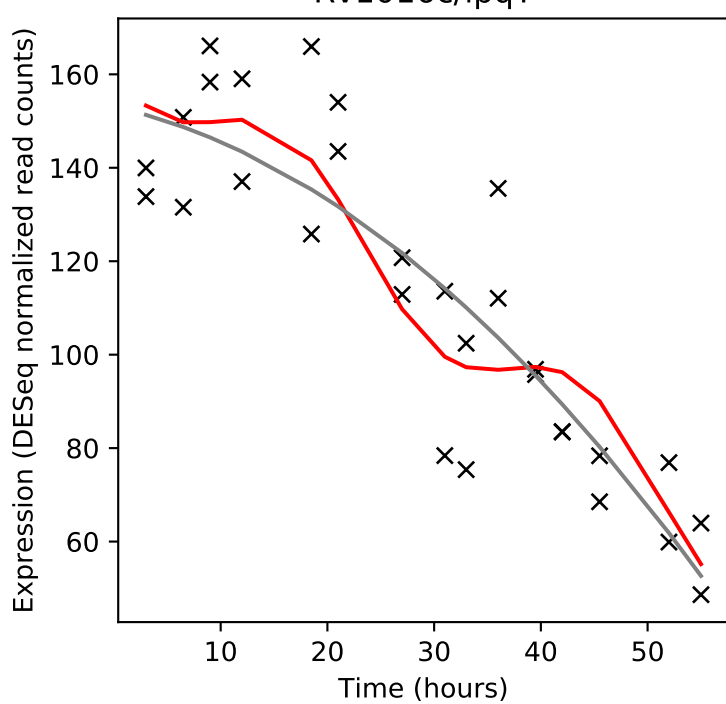
Rv1014c/pth



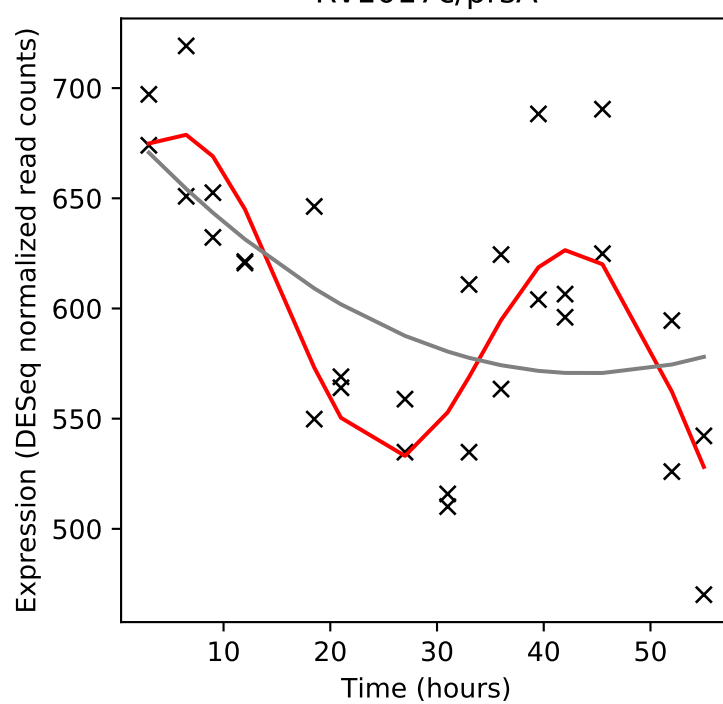
Rv1015c/rpLY



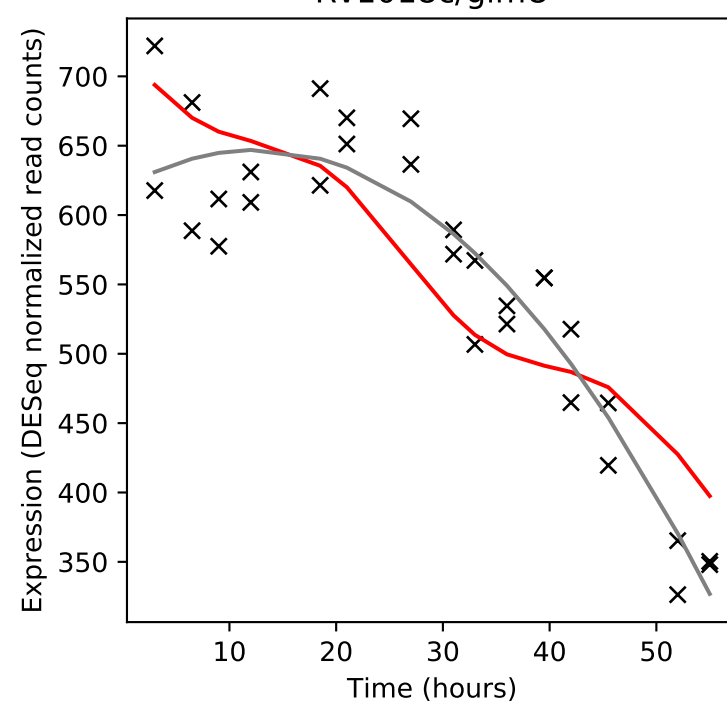
Rv1016c/lpqT



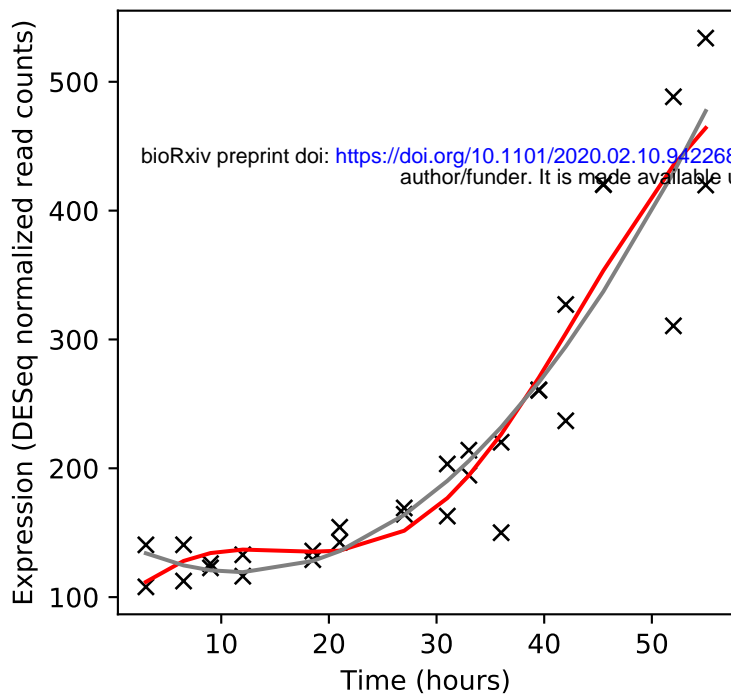
Rv1017c/prsA



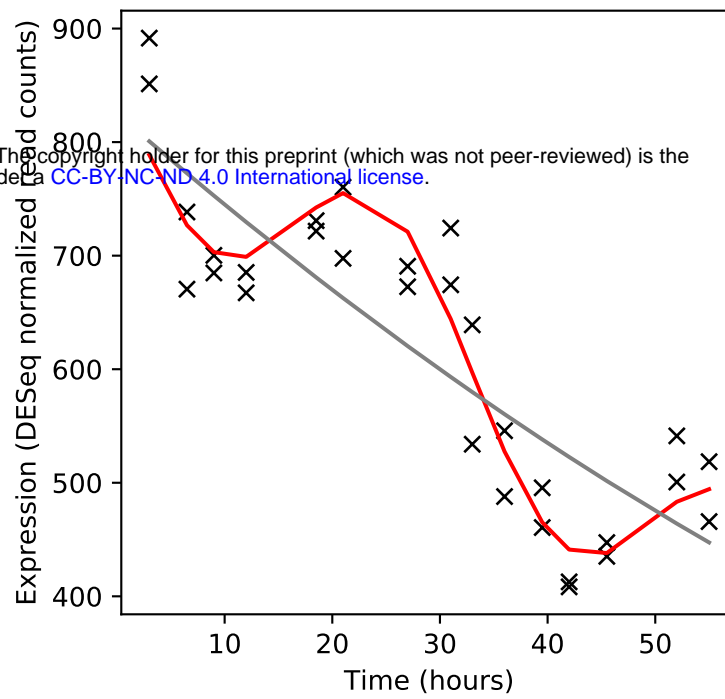
Rv1018c/glmU



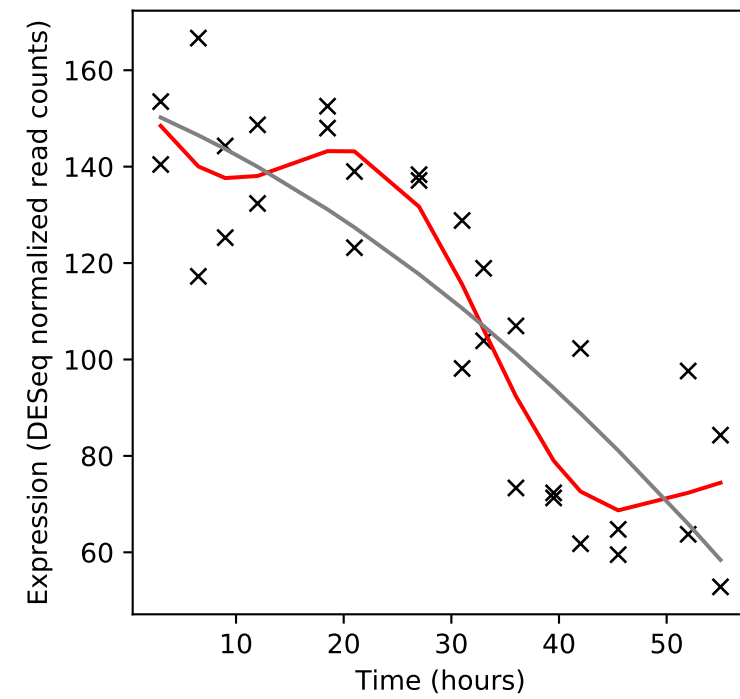
Rv1019/-



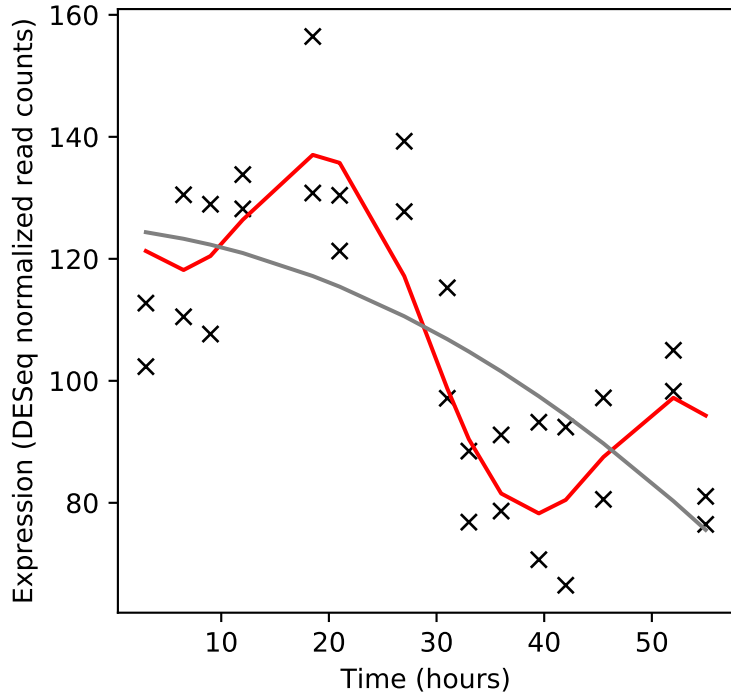
Rv1020/mfd



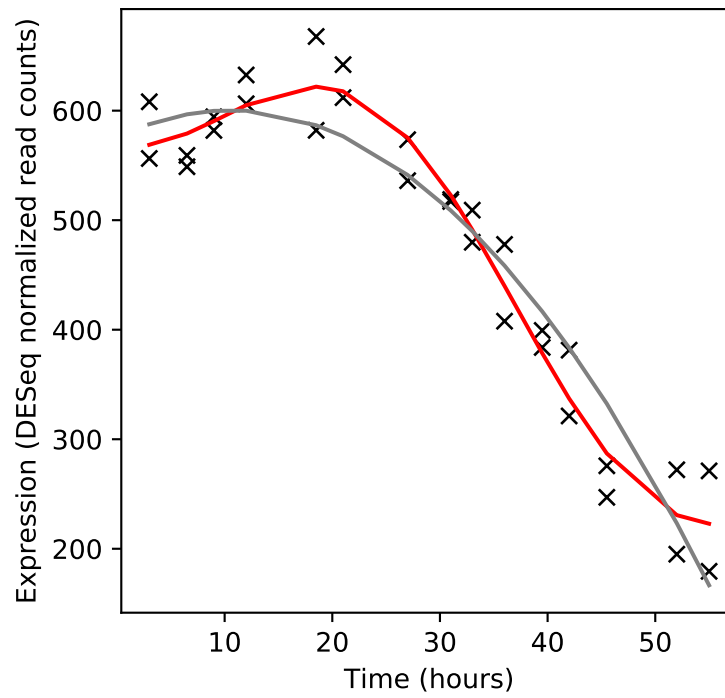
Rv1021/-



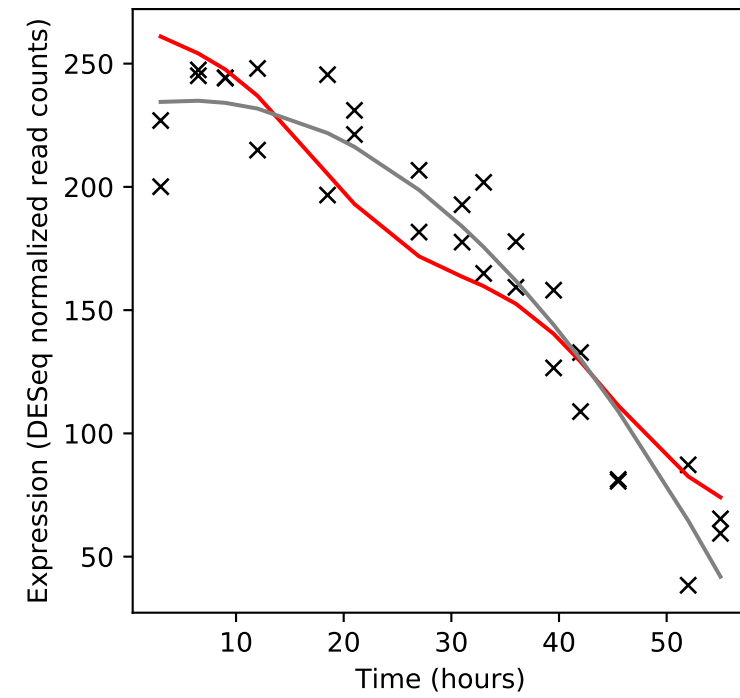
Rv1022/lpqU



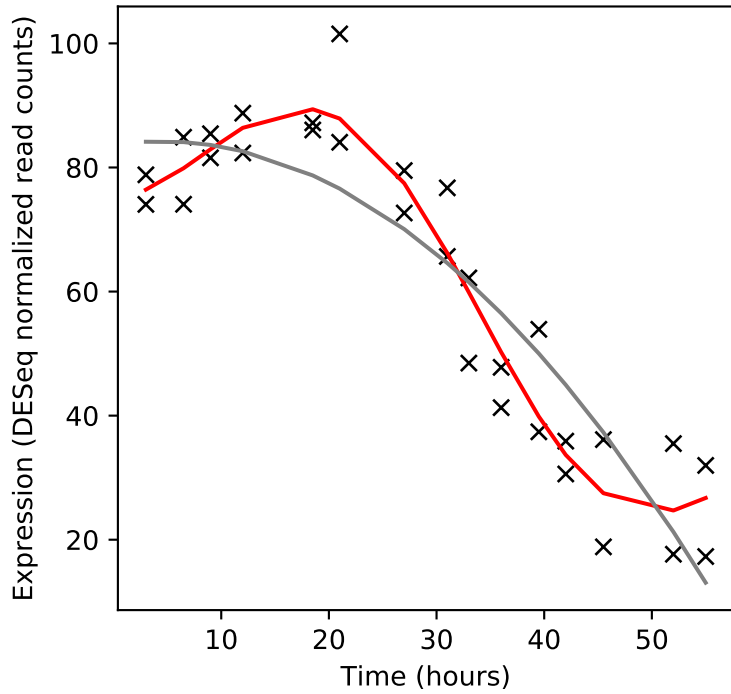
Rv1023/eno



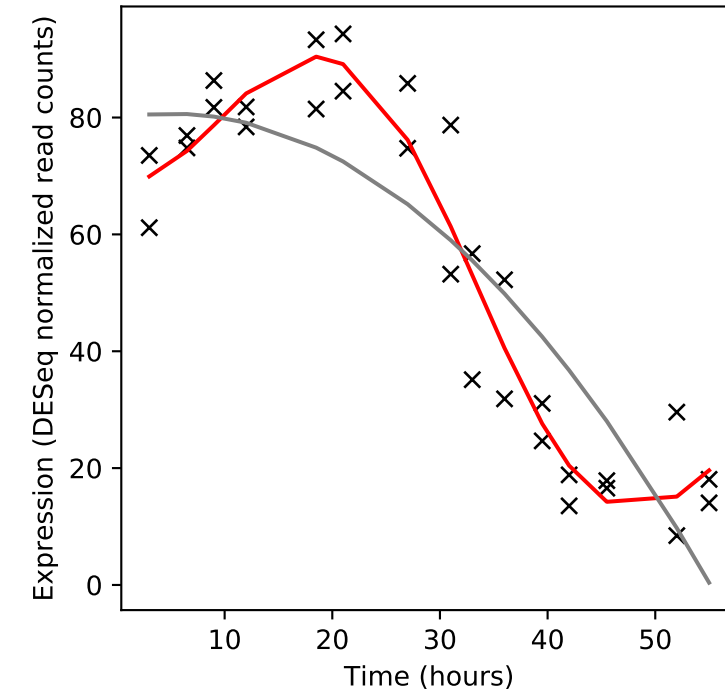
Rv1024/-



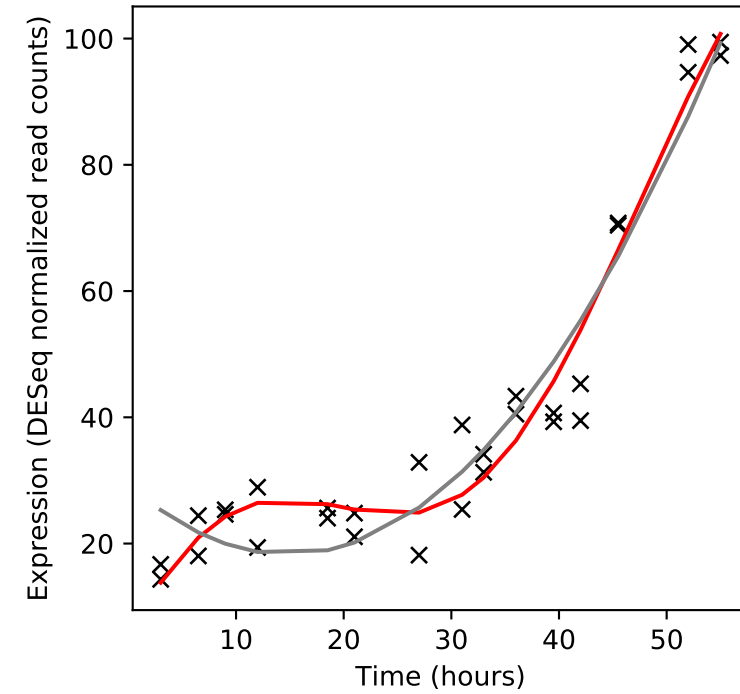
Rv1025/-



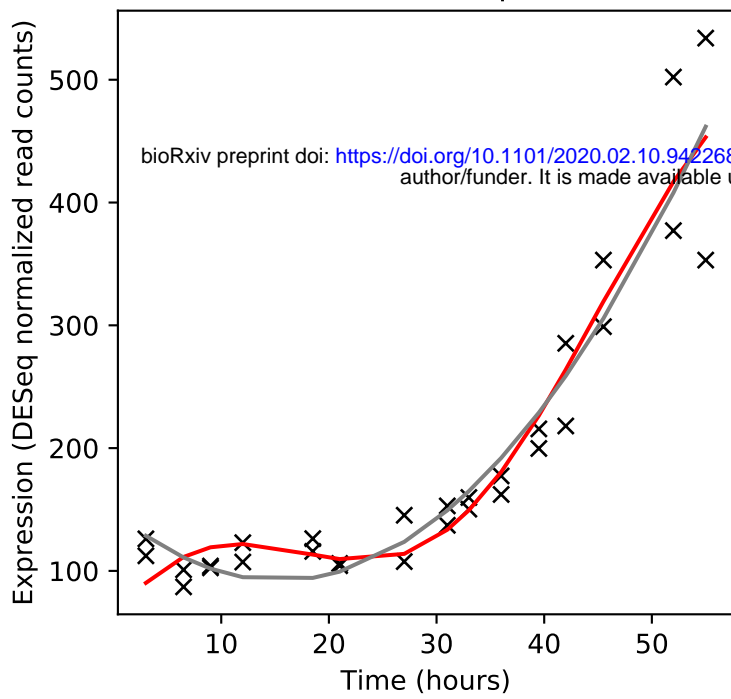
Rv1026/-



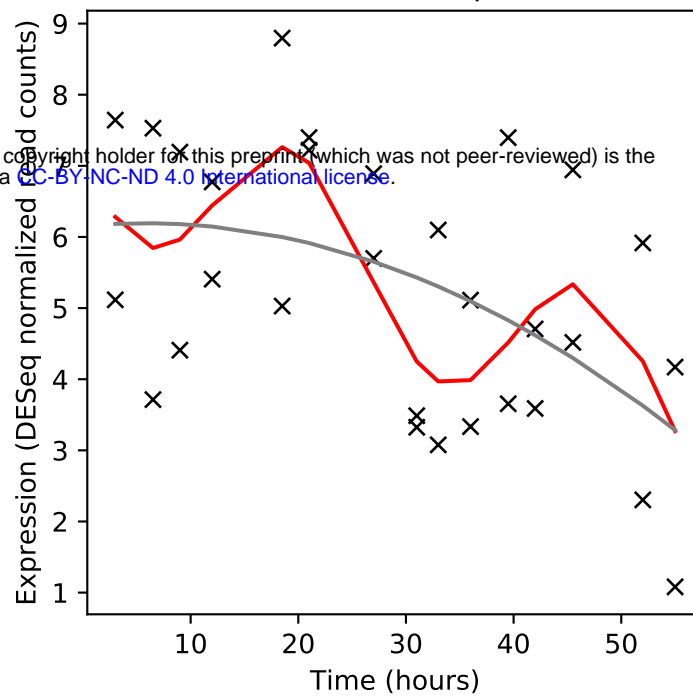
Rv1027c/kdpE



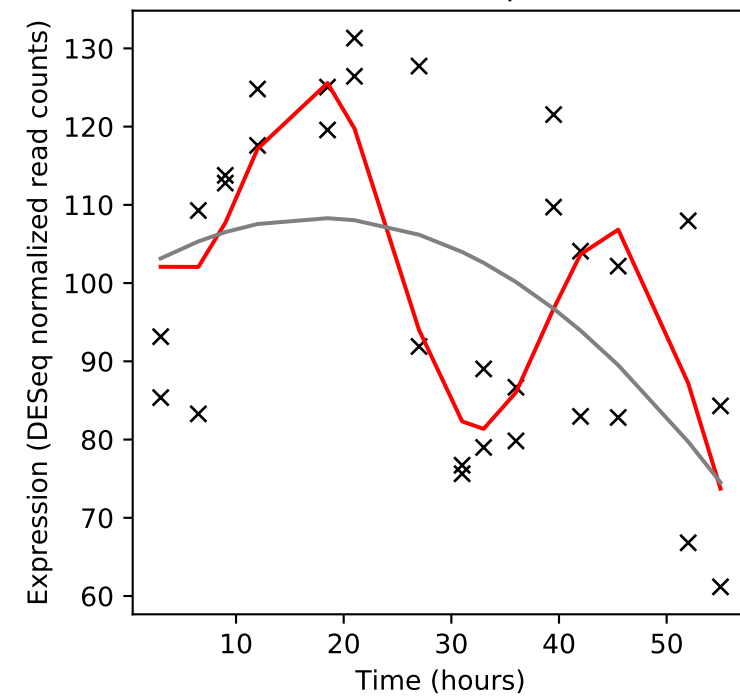
Rv1028c/kdpD



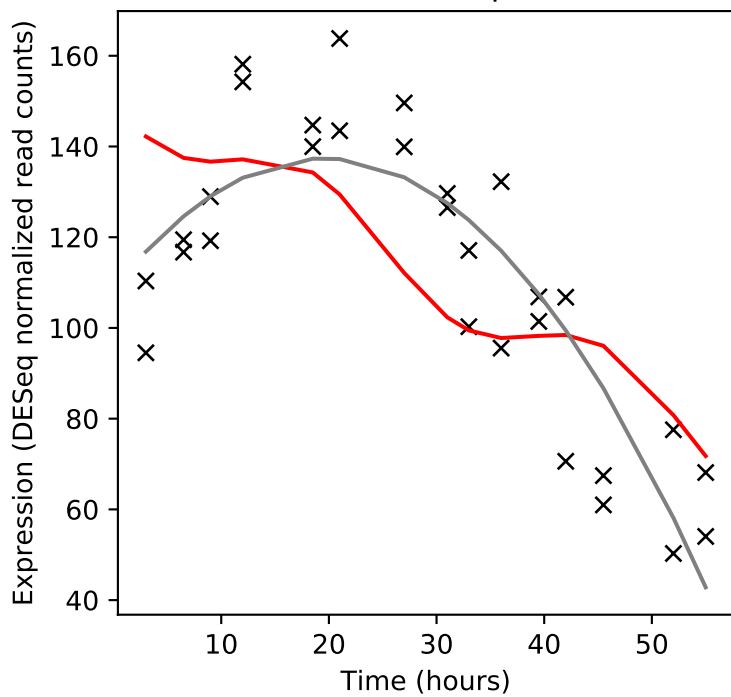
Rv1028A/kdpF



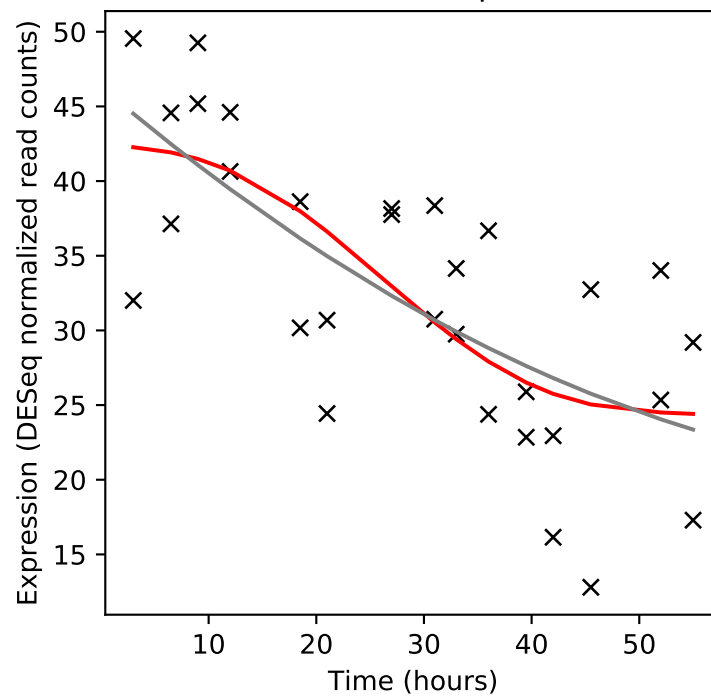
Rv1029/kdpA



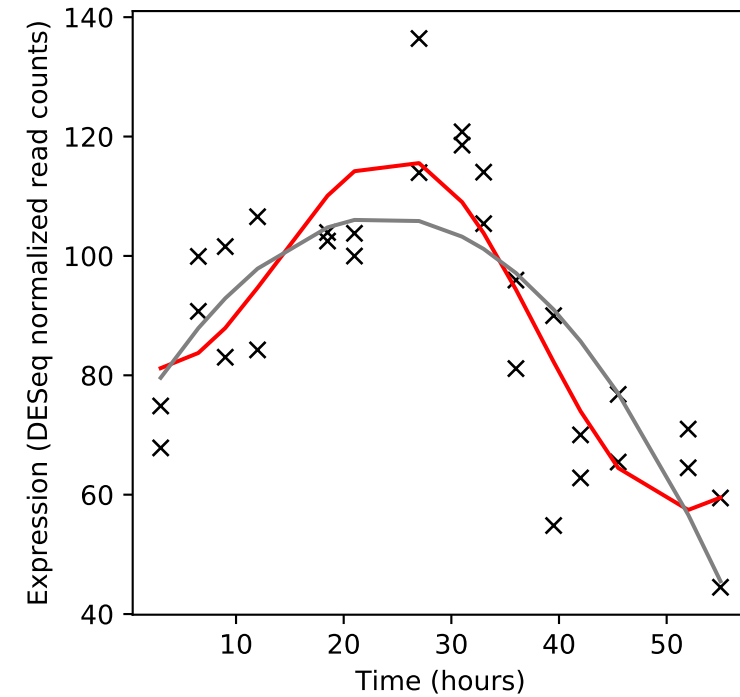
Rv1030/kdpB



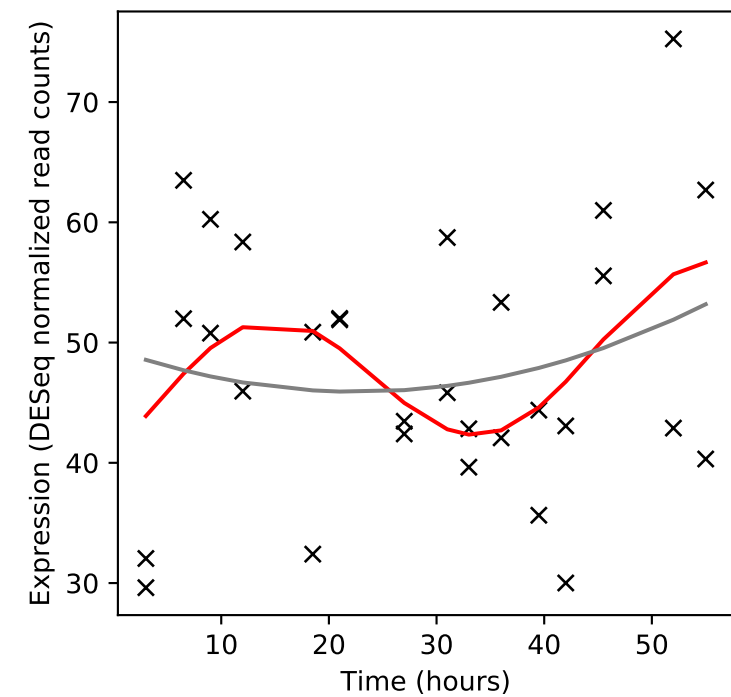
Rv1031/kdpC



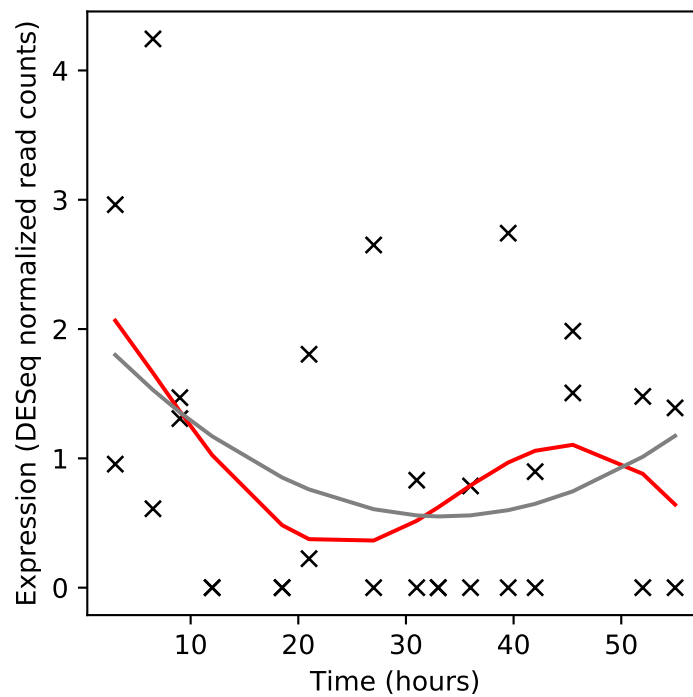
Rv1032c/trcS



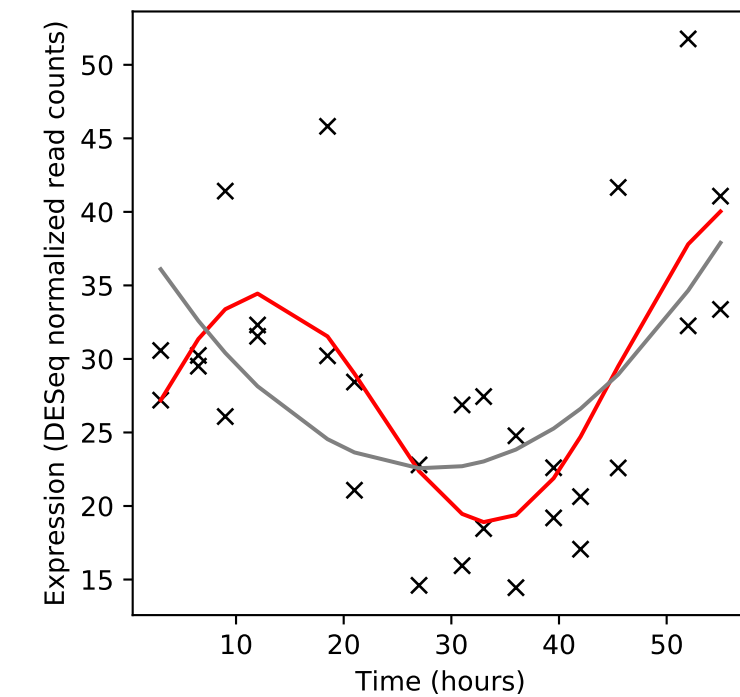
Rv1033c/trcR



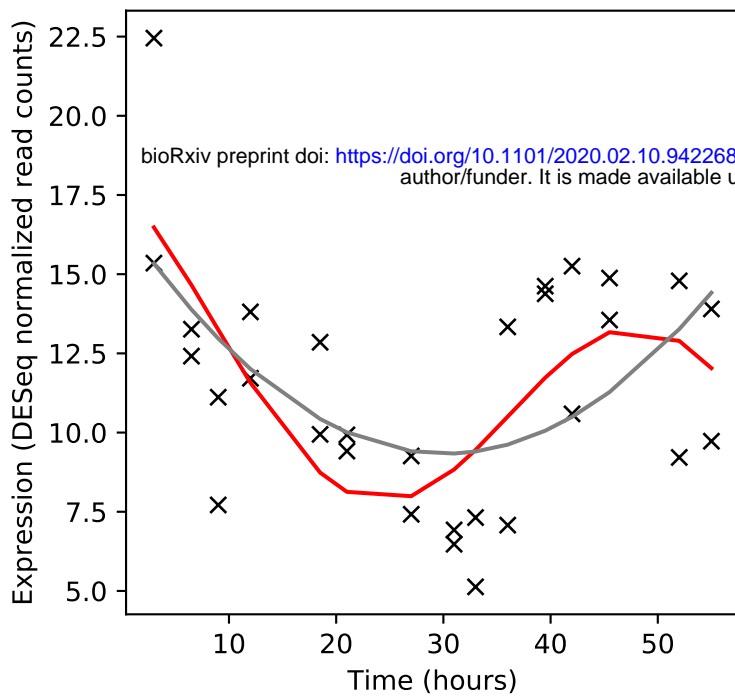
Rv1034c/-



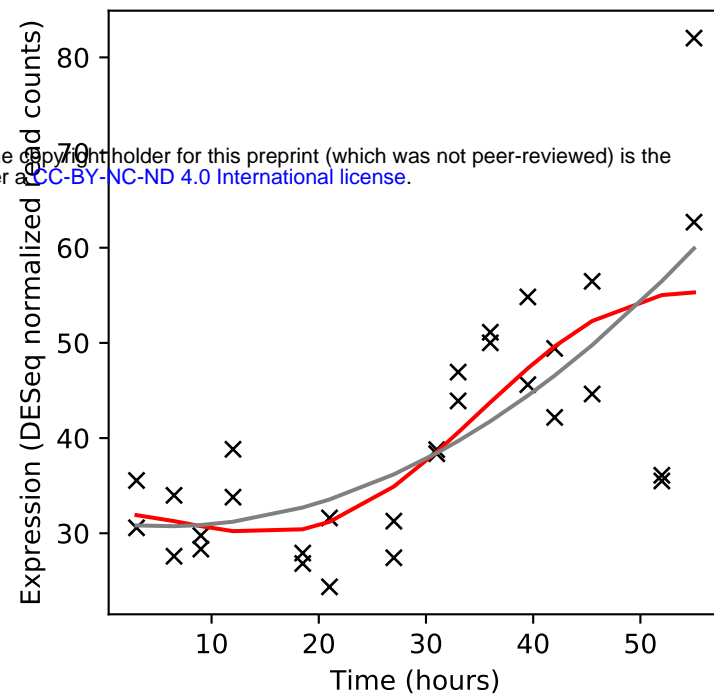
Rv1035c/-



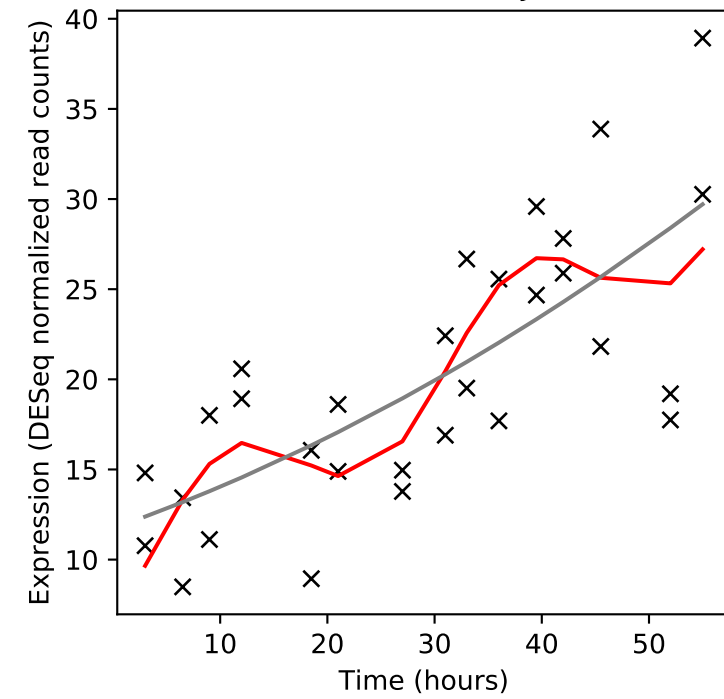
Rv1036c/-



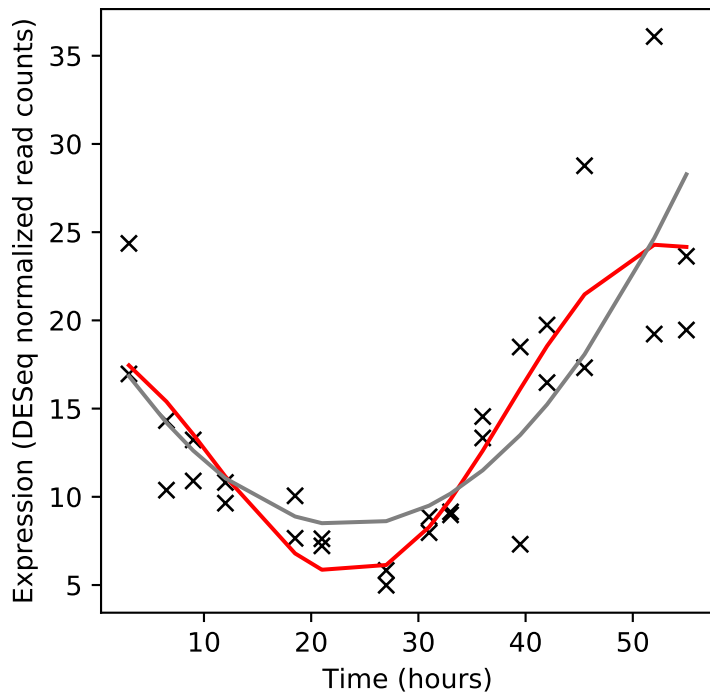
Rv1037c/esxl



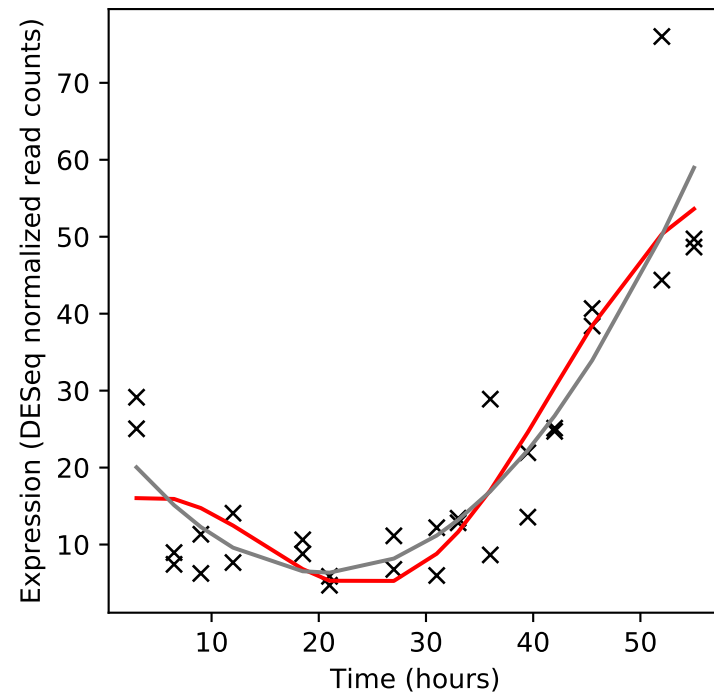
Rv1038c/esxl



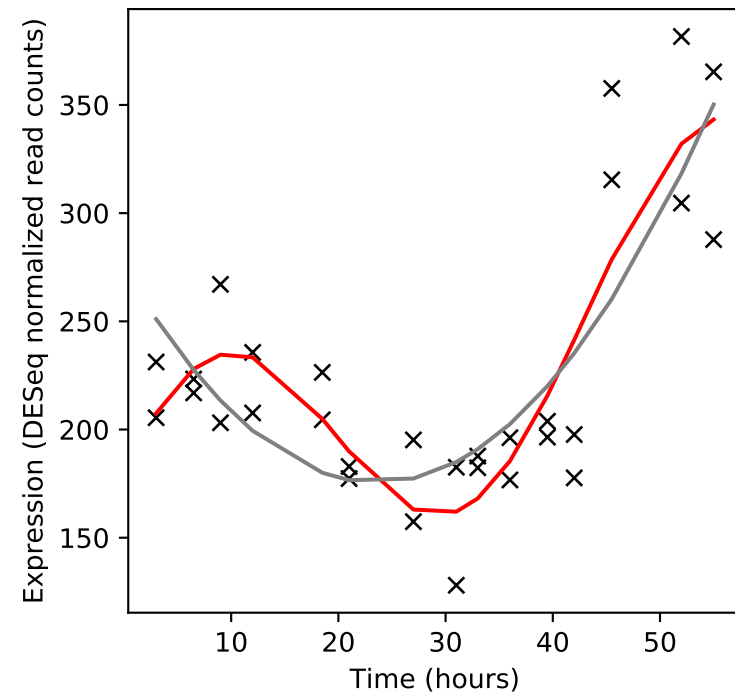
Rv1039c/PPE15



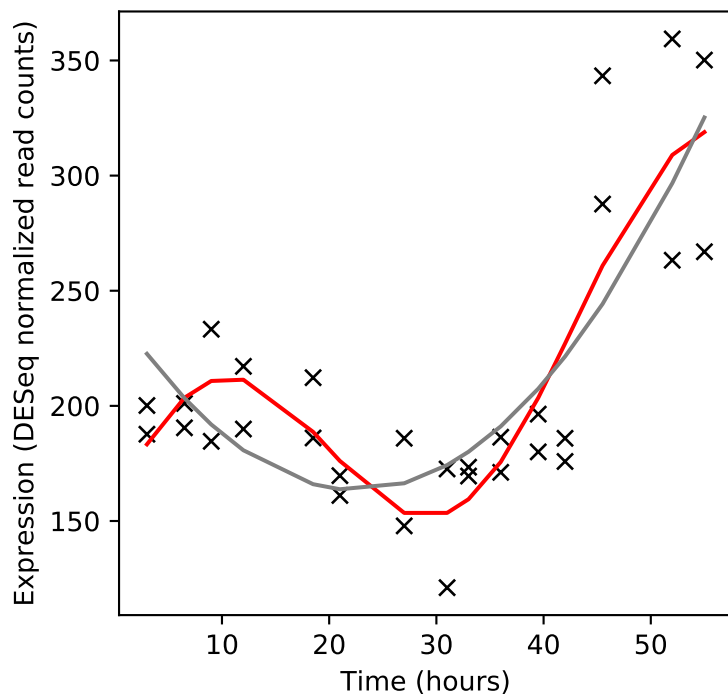
Rv1040c/PE8



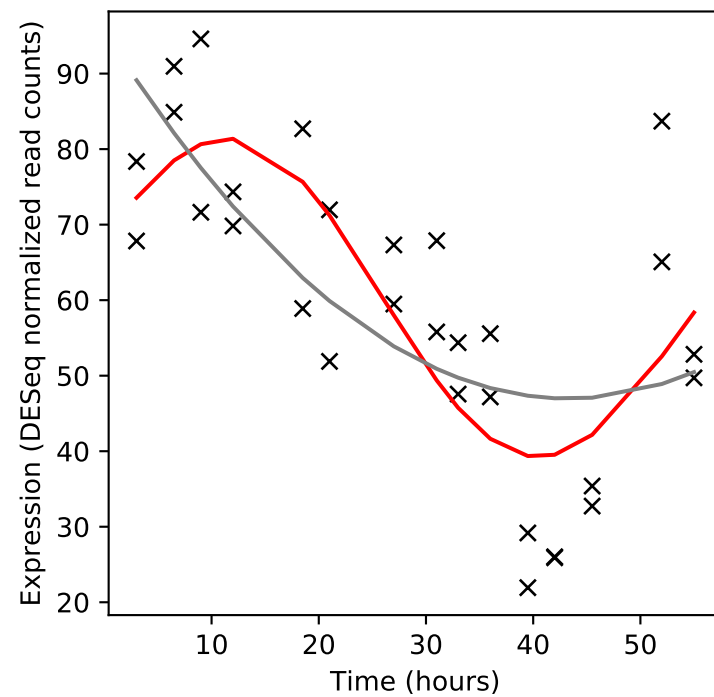
Rv1041c/-



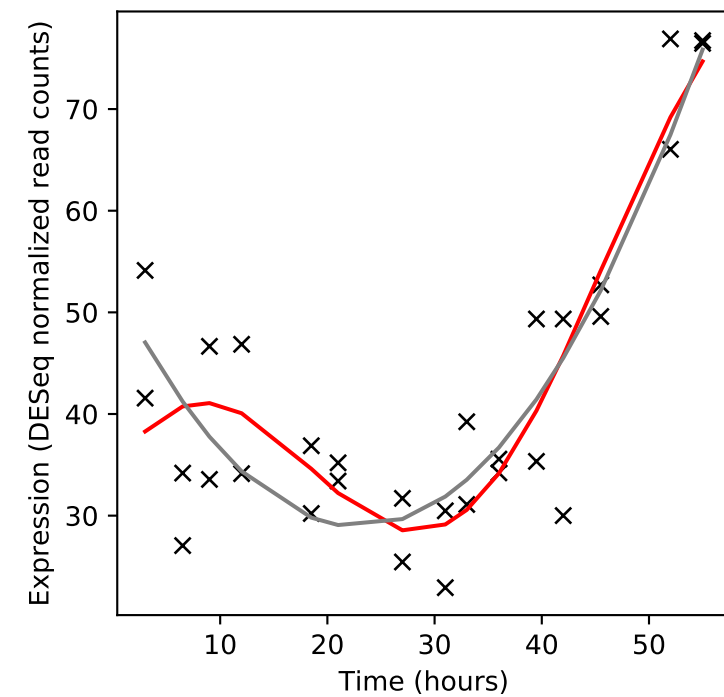
Rv1042c/-



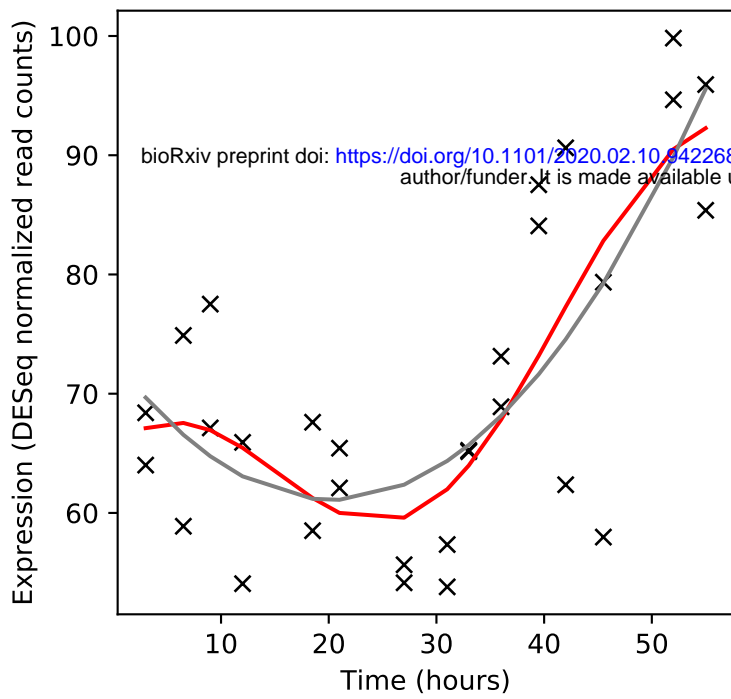
Rv1043c/-



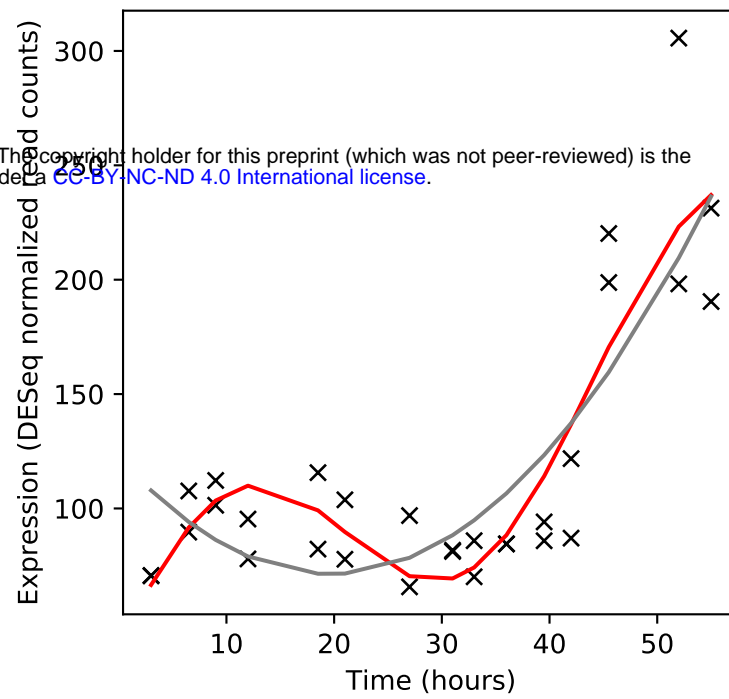
Rv1044c/-



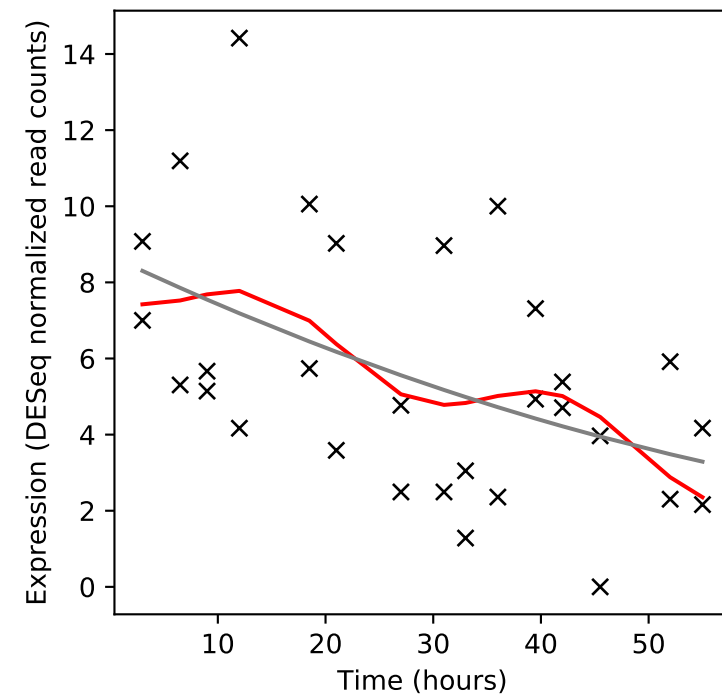
Rv1045/-



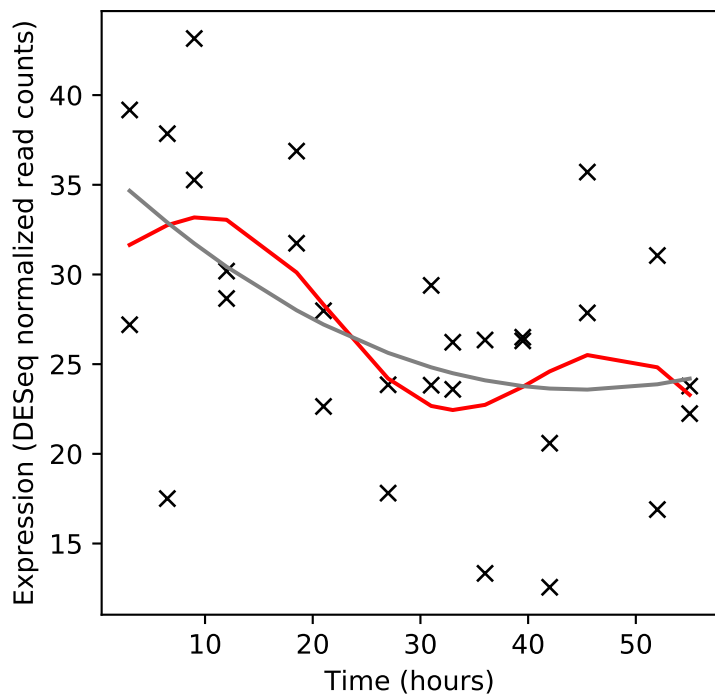
Rv1046c/-



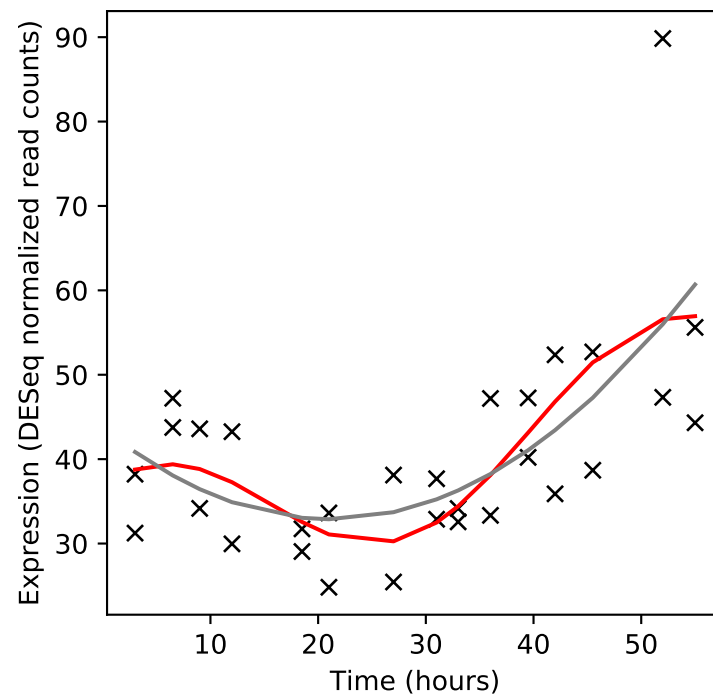
Rv1047/-



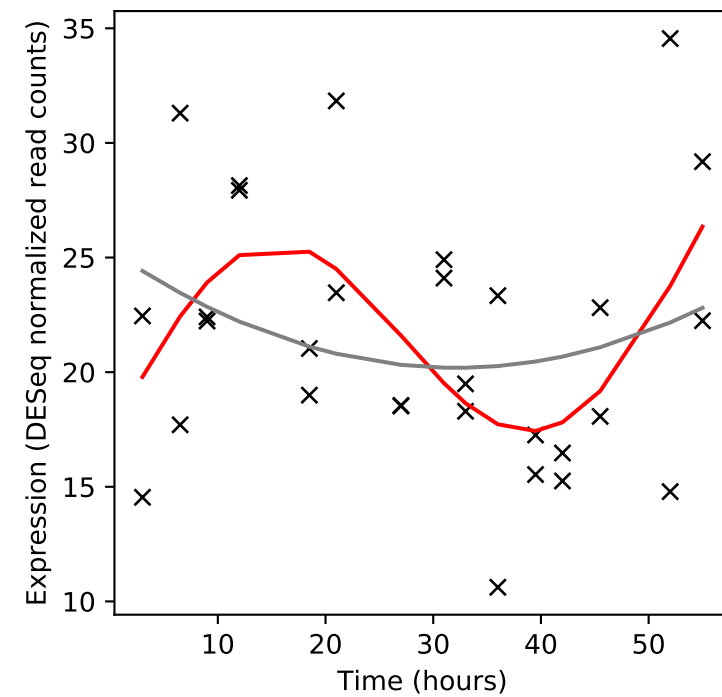
Rv1048c/-



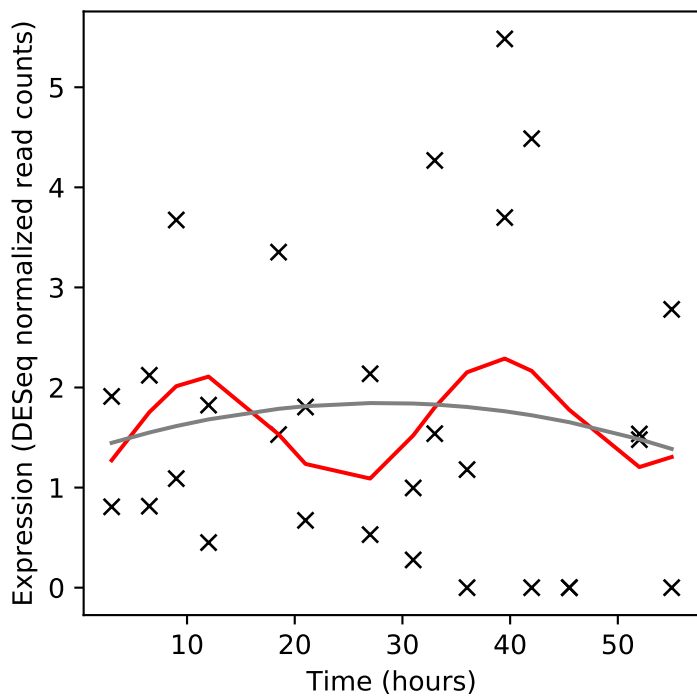
Rv1049/-



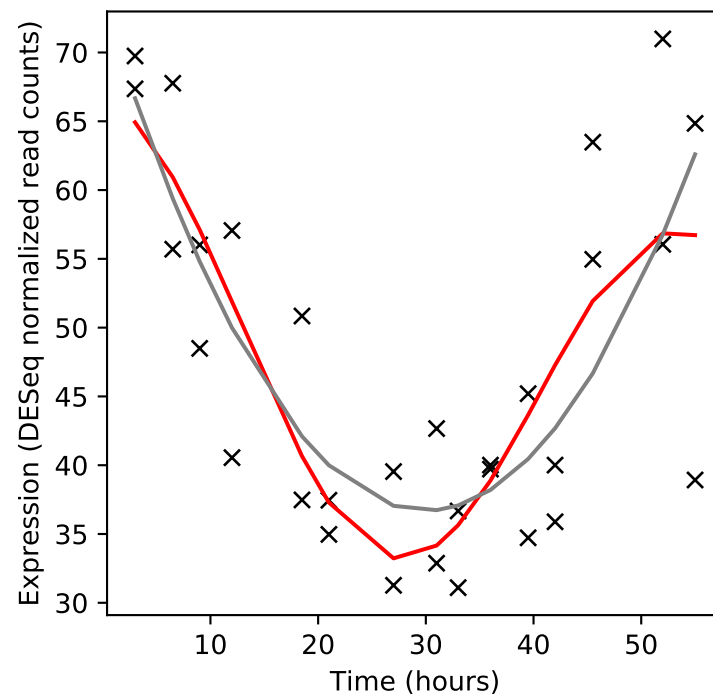
Rv1050/-



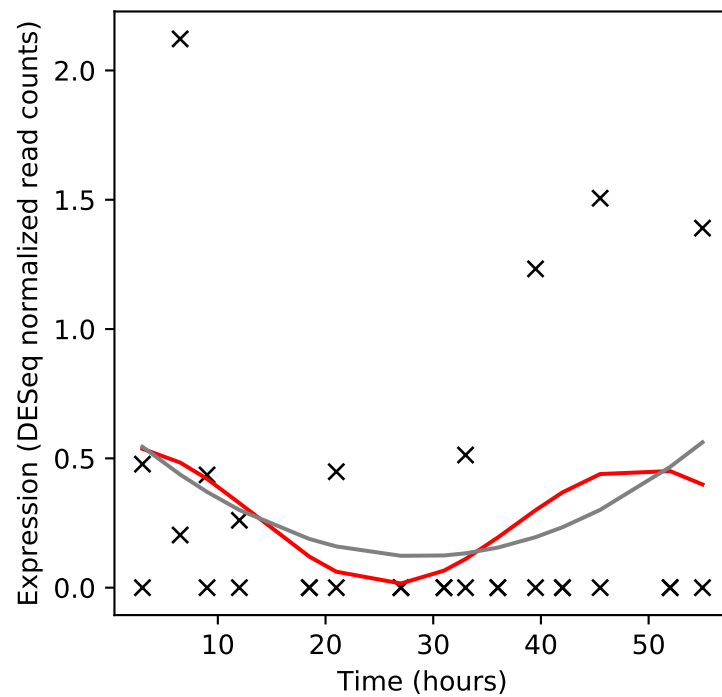
Rv1051c/-



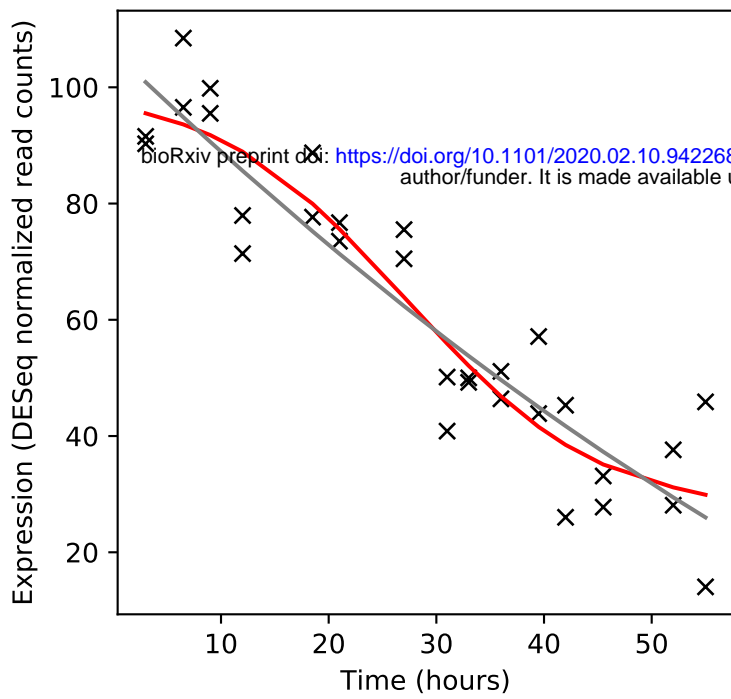
Rv1052/-



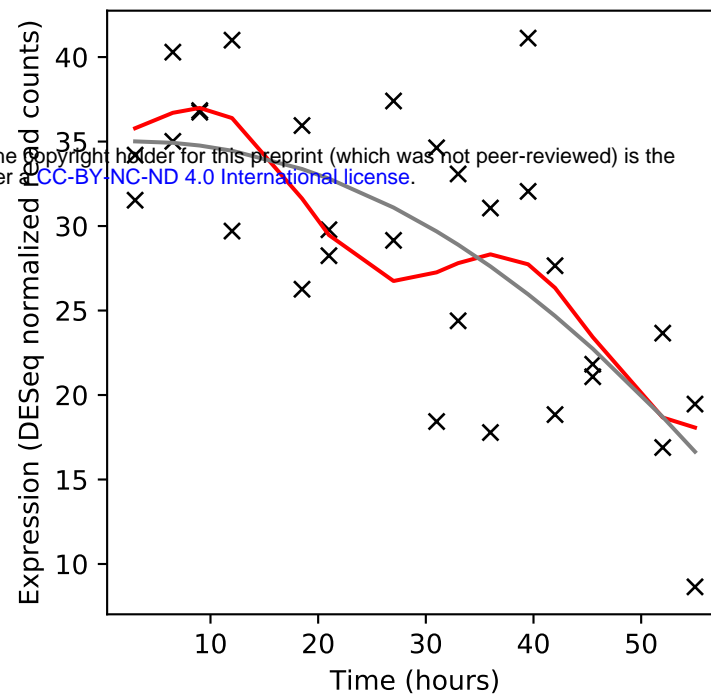
Rv1053c/-



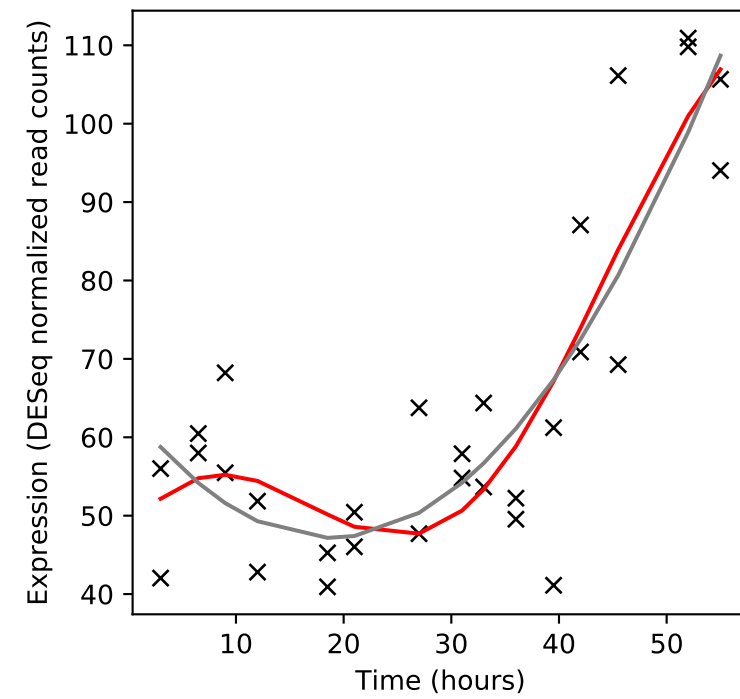
Rv1054/-



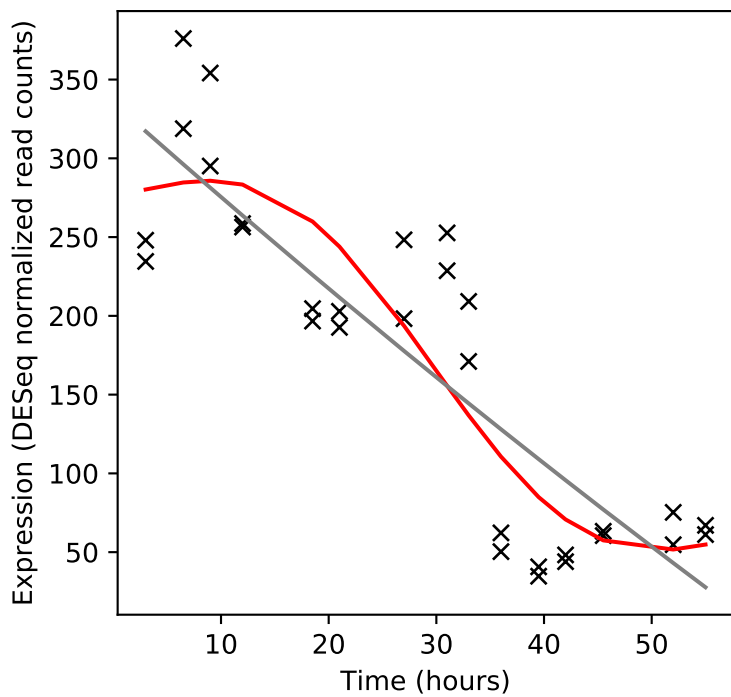
Rv1055/-



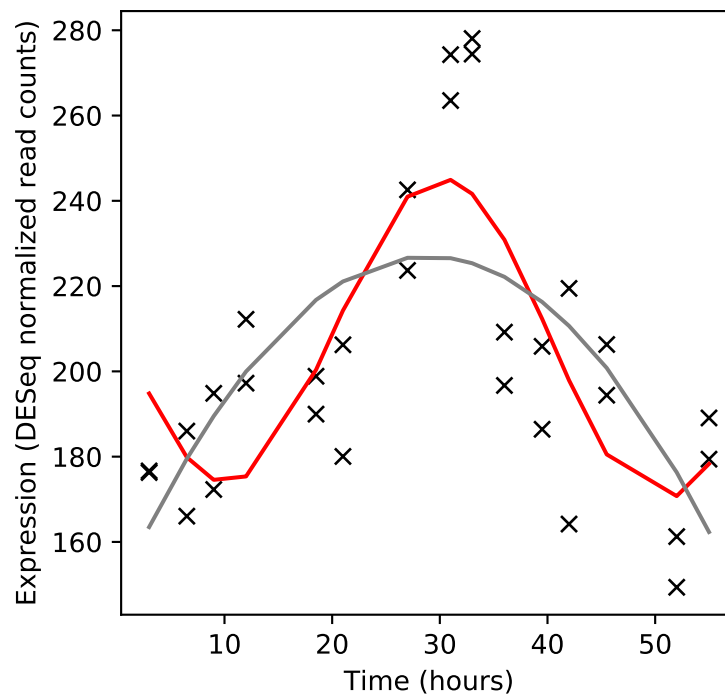
Rv1056/-



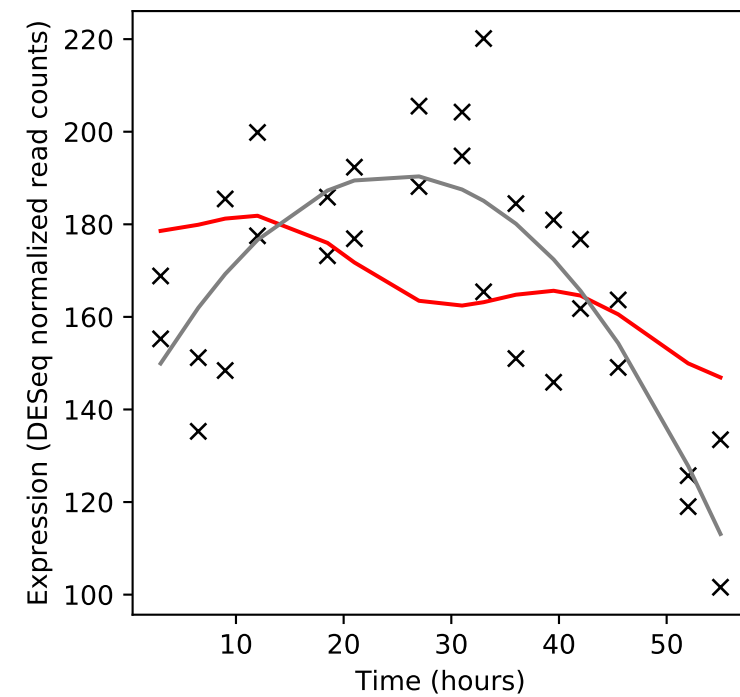
Rv1057/-



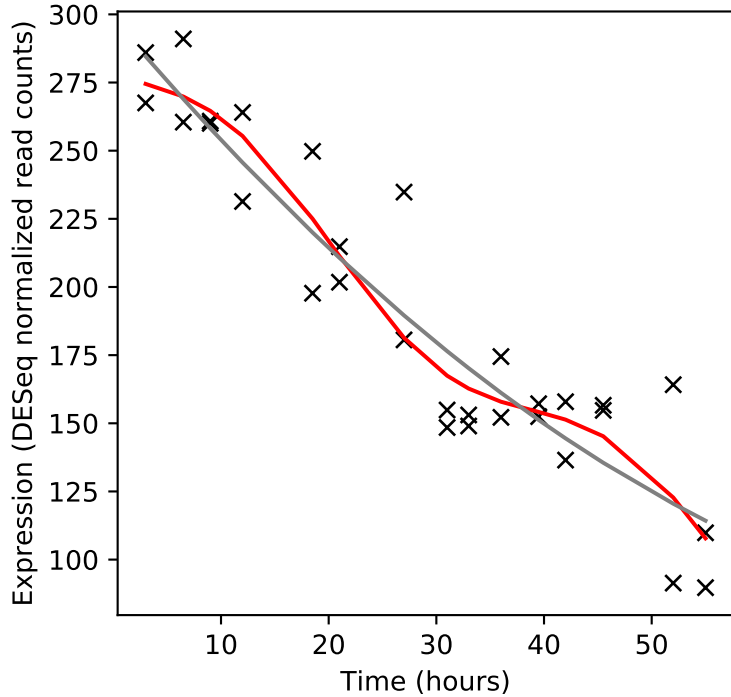
Rv1058/fadD14



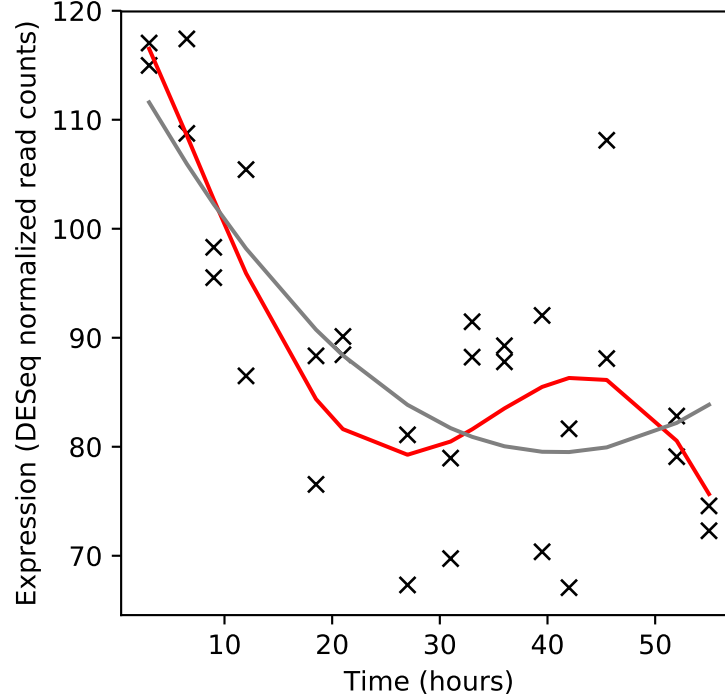
Rv1059/-



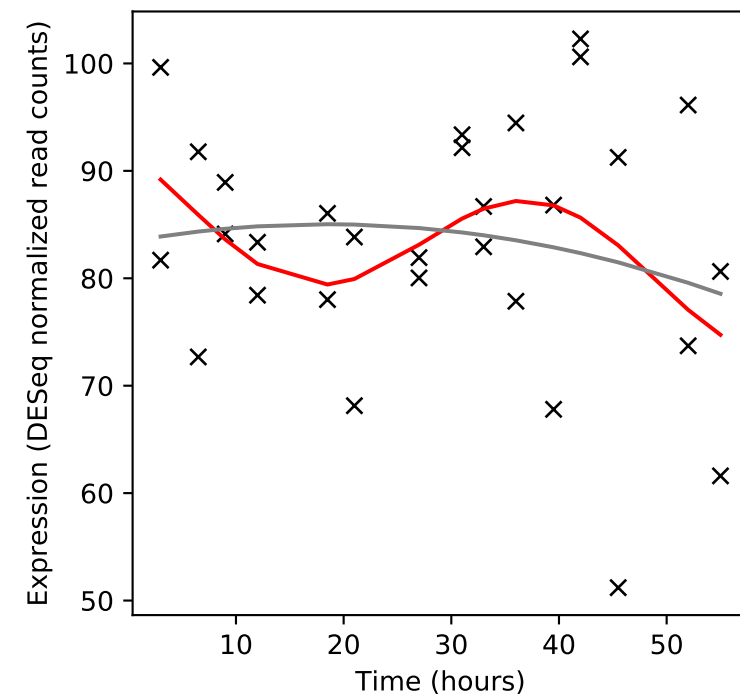
Rv1060/-



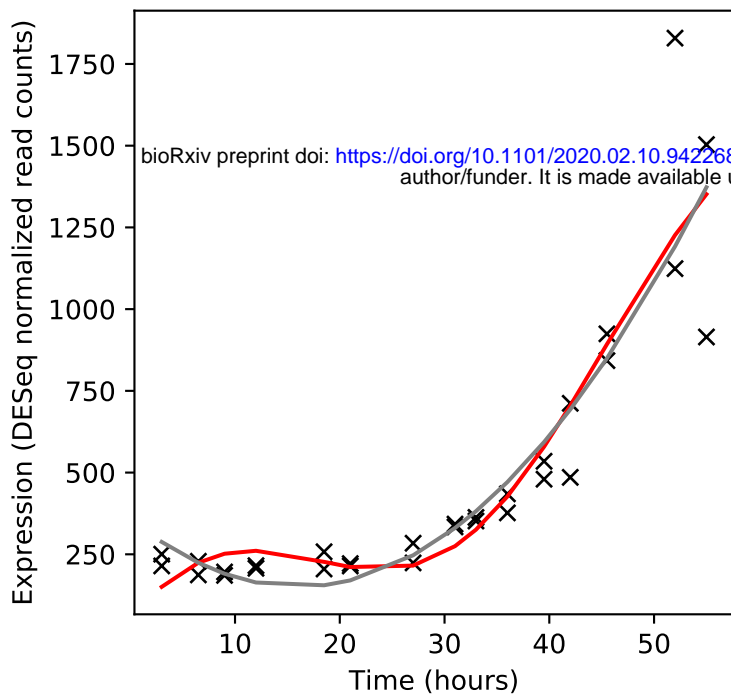
Rv1061/-



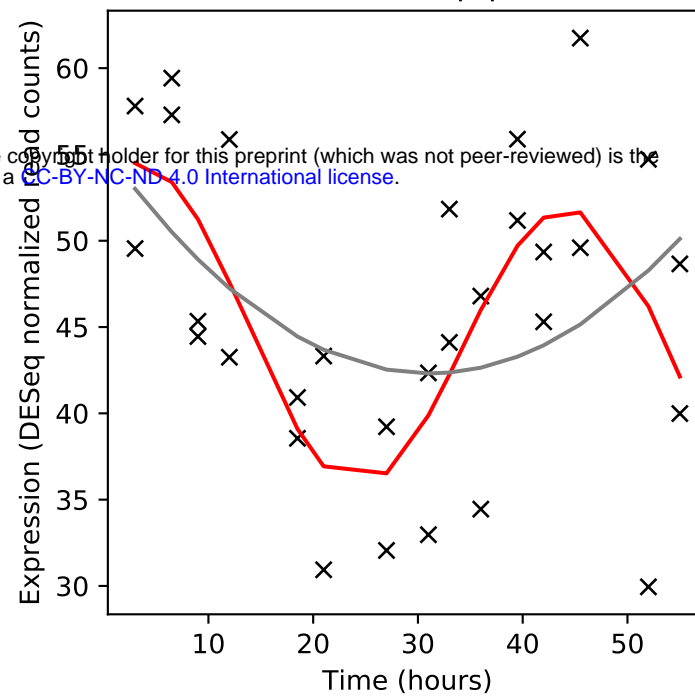
Rv1062/-



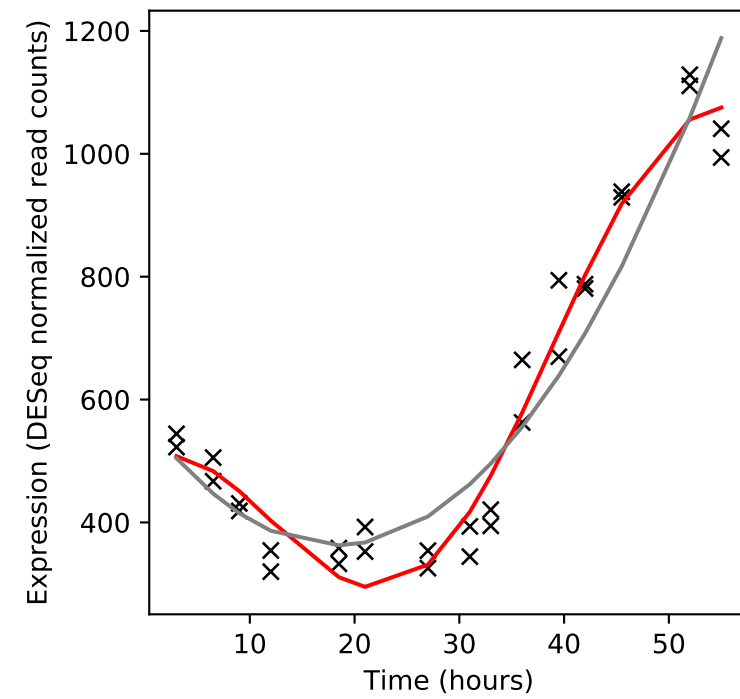
Rv1063c/-



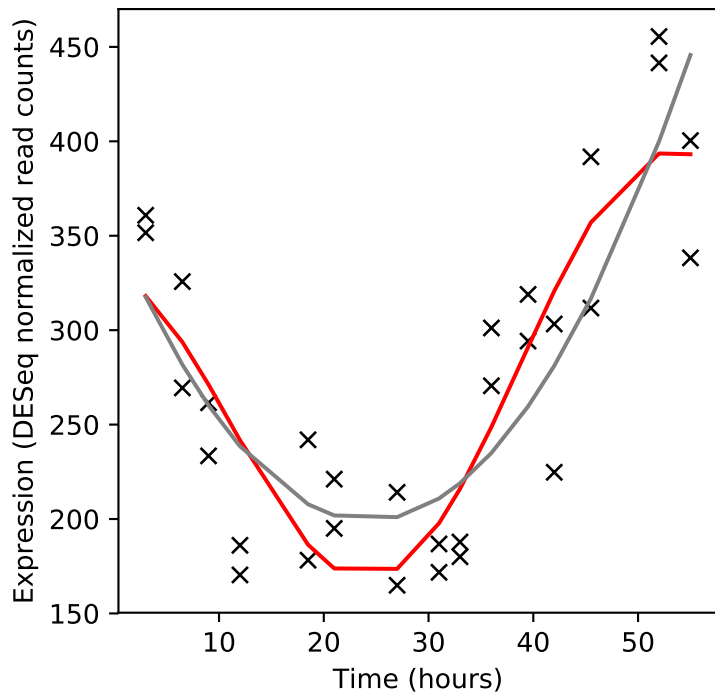
Rv1064c/lpqV



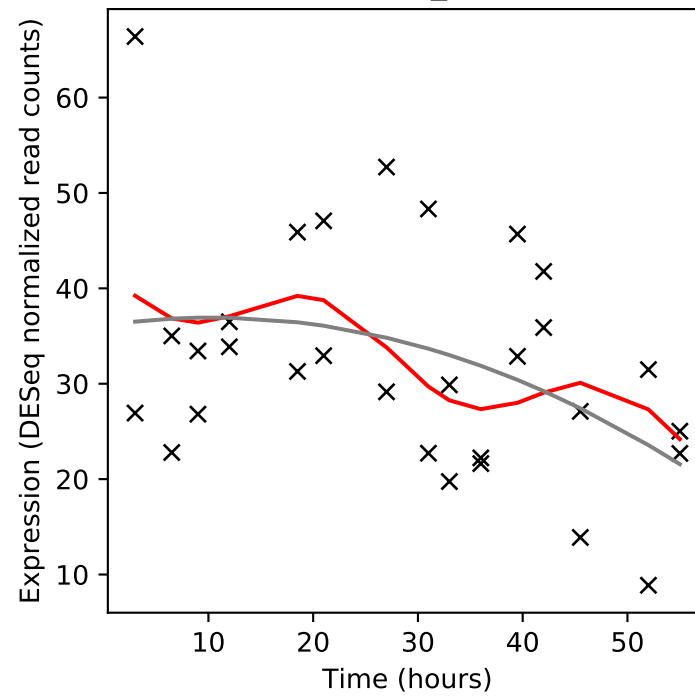
Rv1065/-



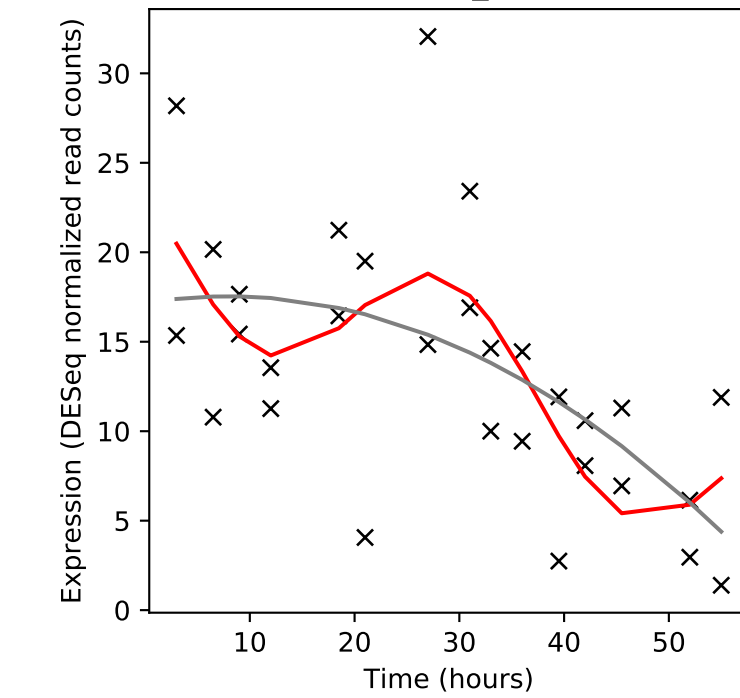
Rv1066/-



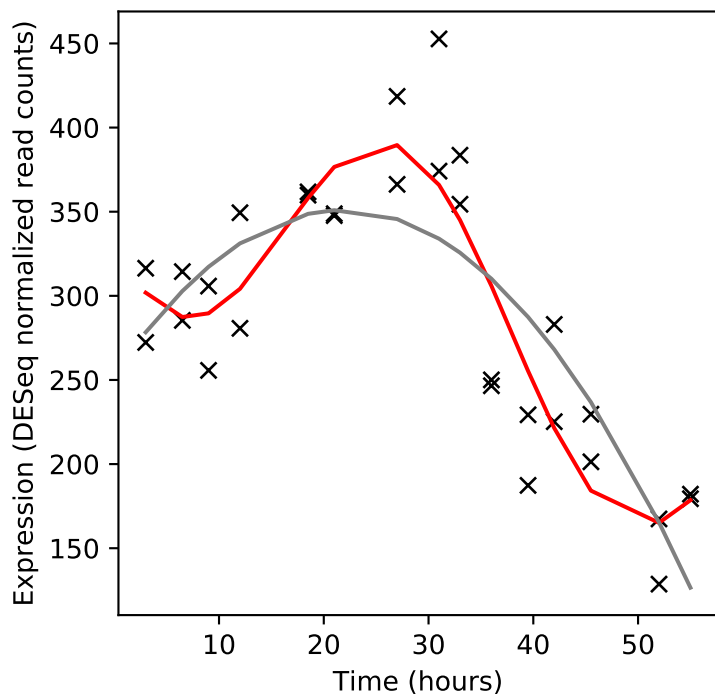
Rv1067c/PE_PGRS19



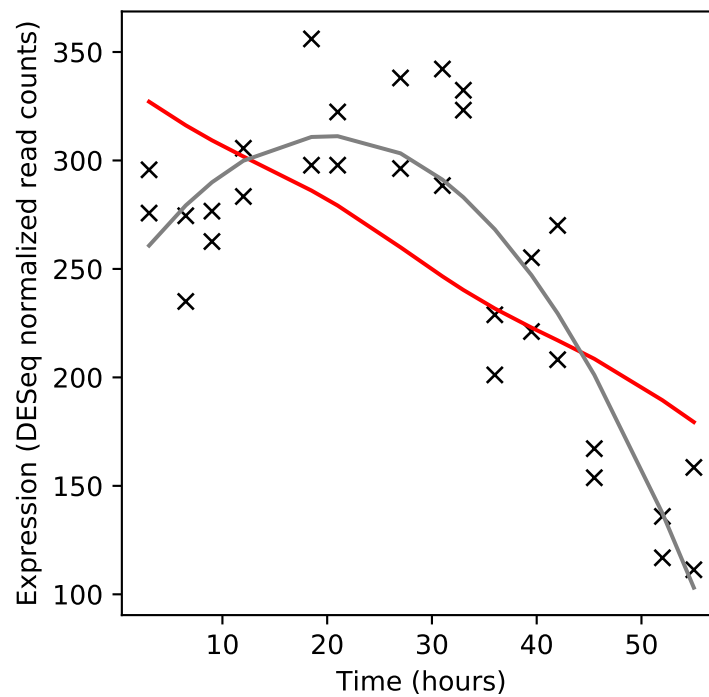
Rv1068c/PE_PGRS20



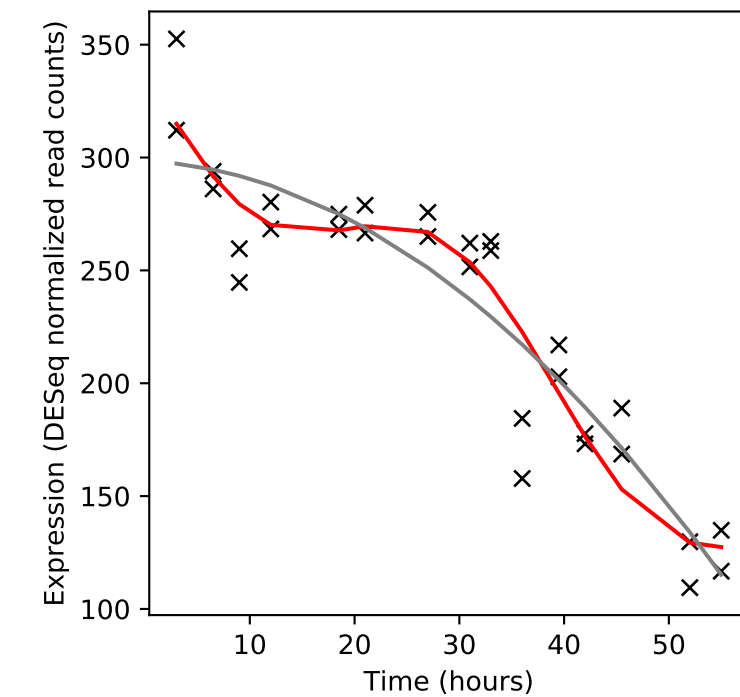
Rv1069c/-



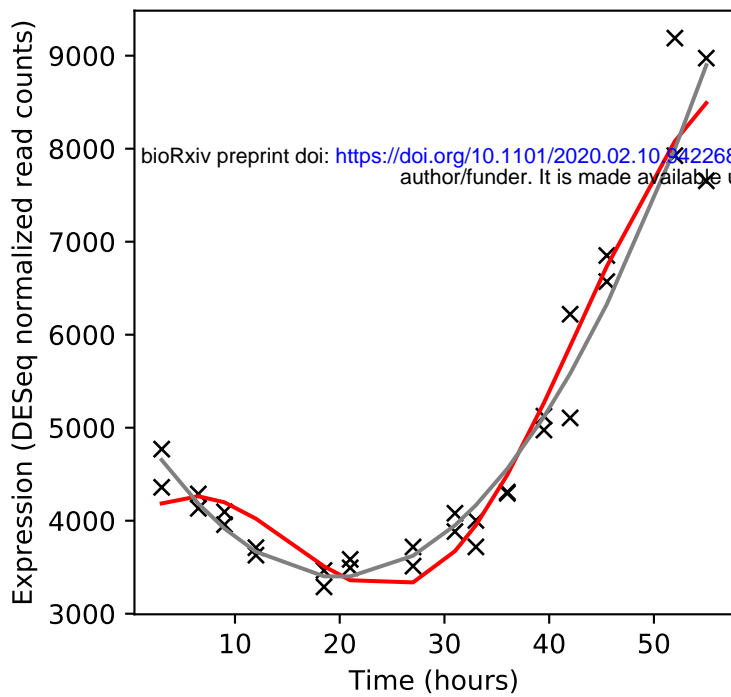
Rv1070c/echA8



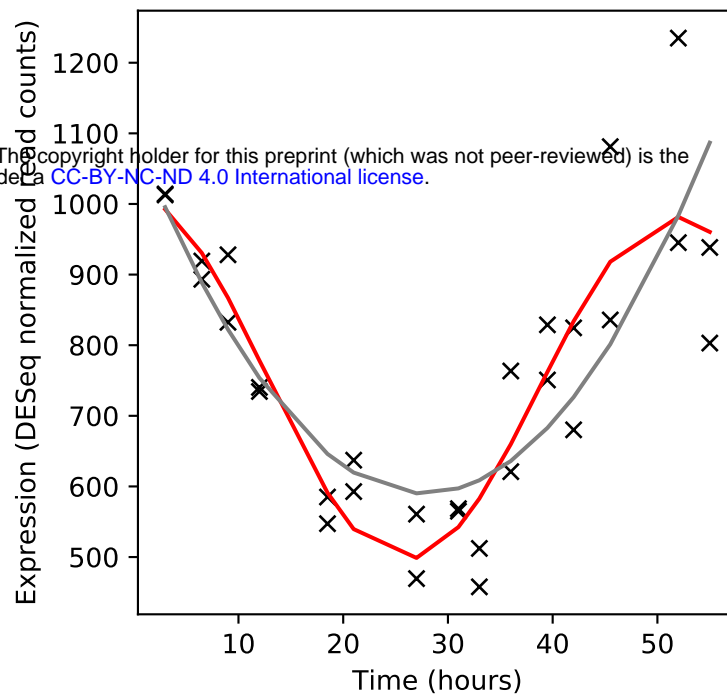
Rv1071c/echA9



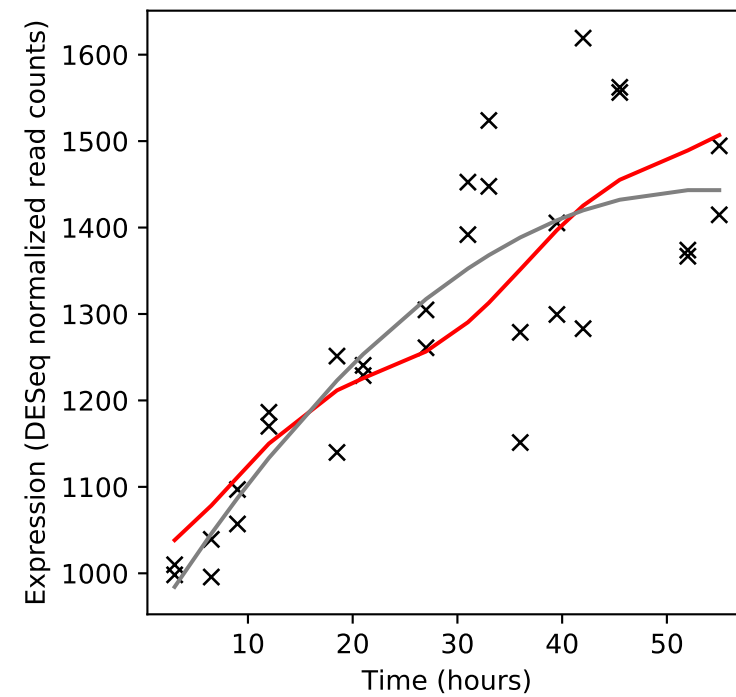
Rv1072/-



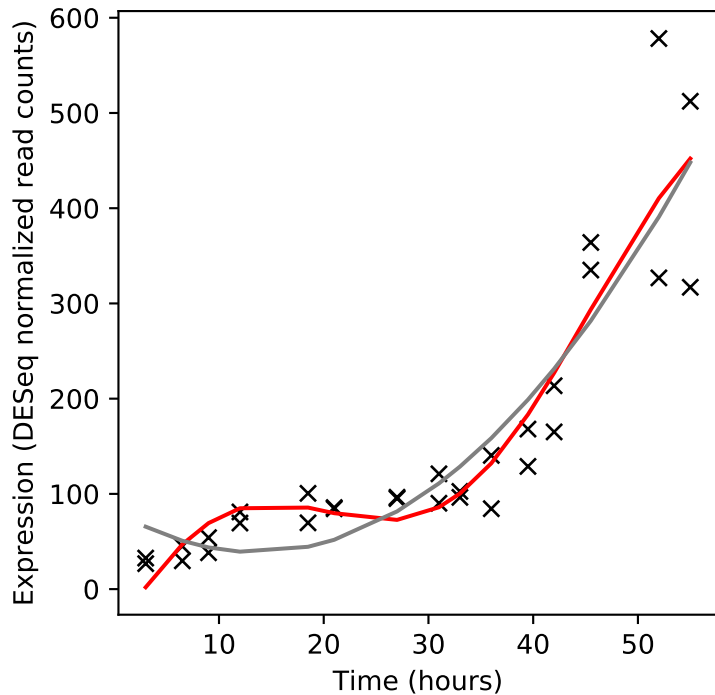
Rv1073/-



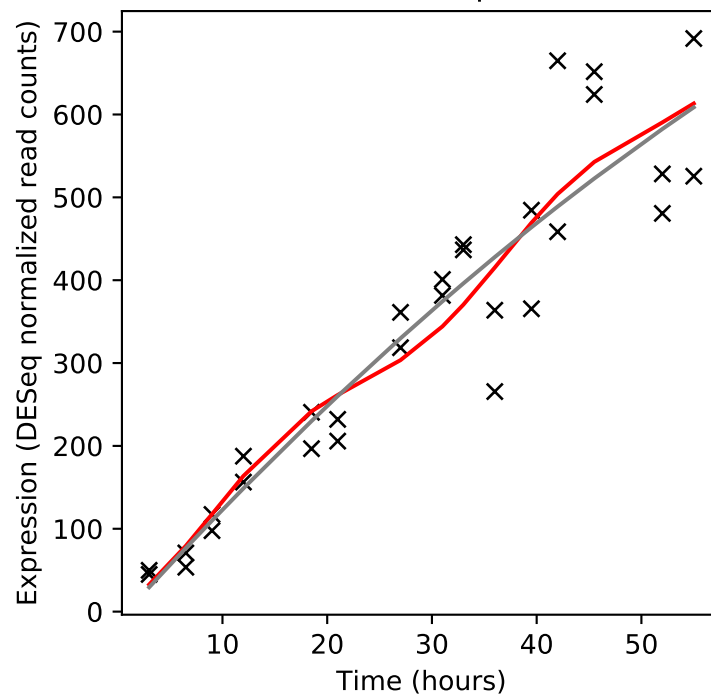
Rv1074c/fadA3



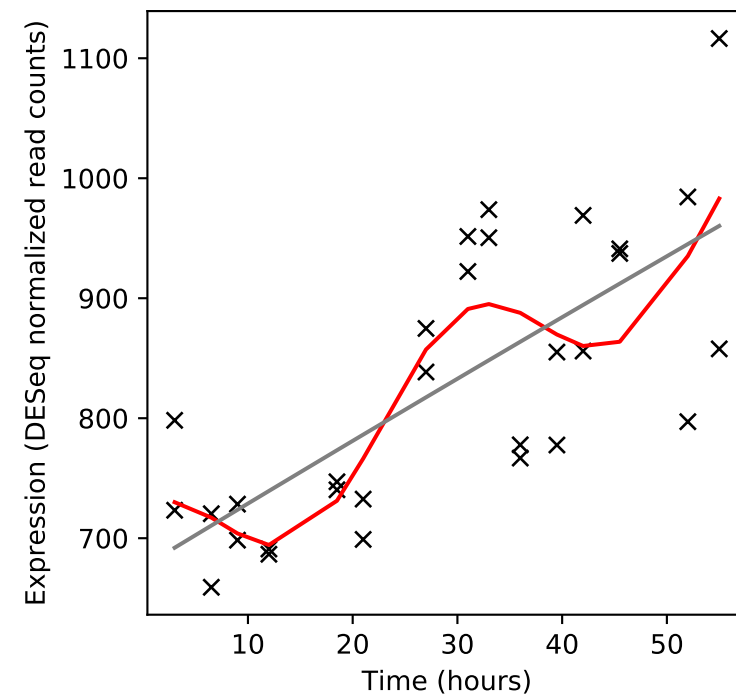
Rv1075c/-



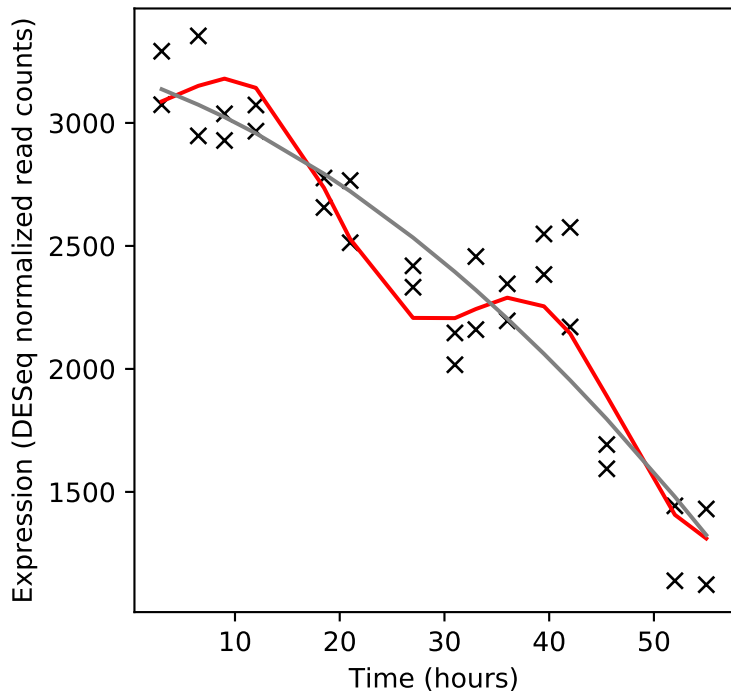
Rv1076/lipU



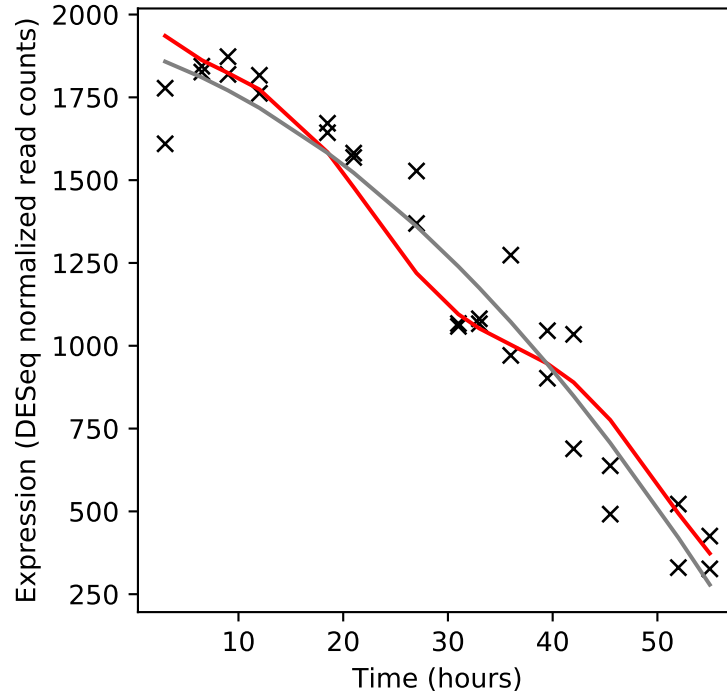
Rv1077/cbs



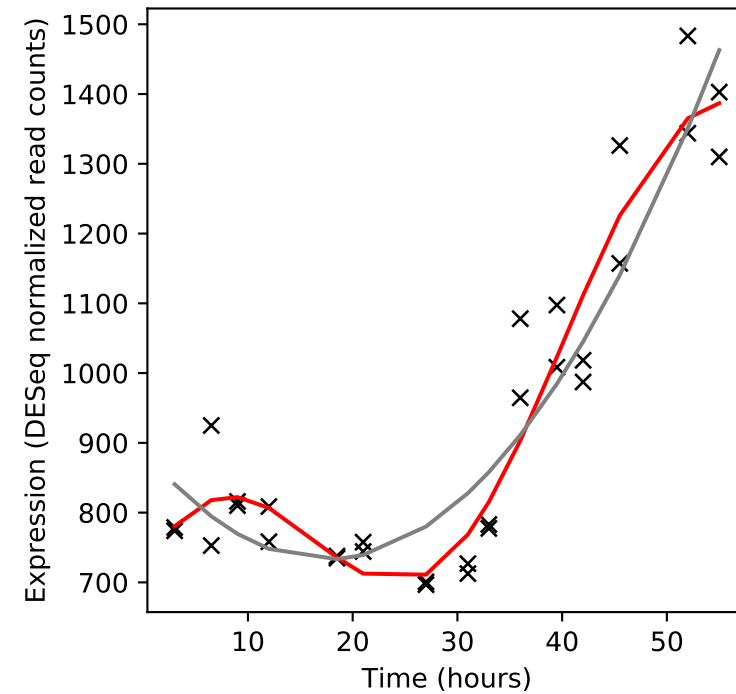
Rv1078/pra



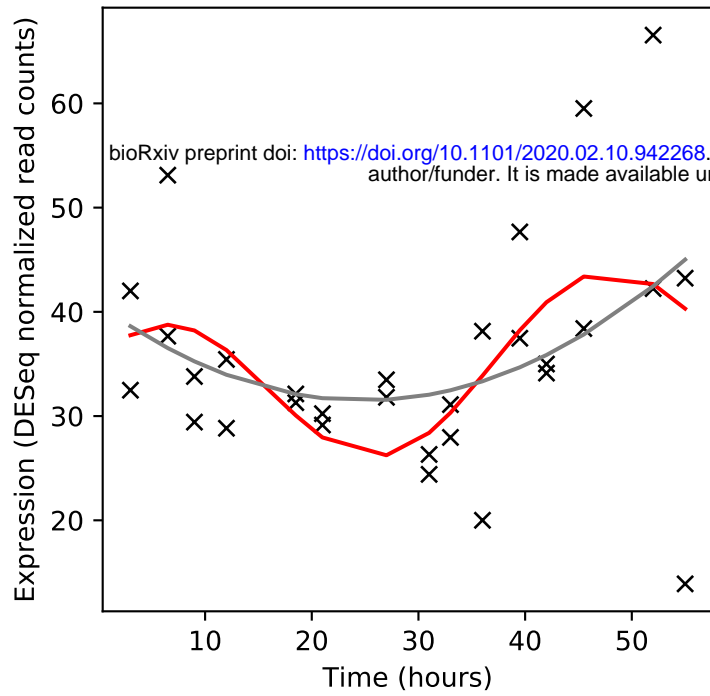
Rv1079/metB



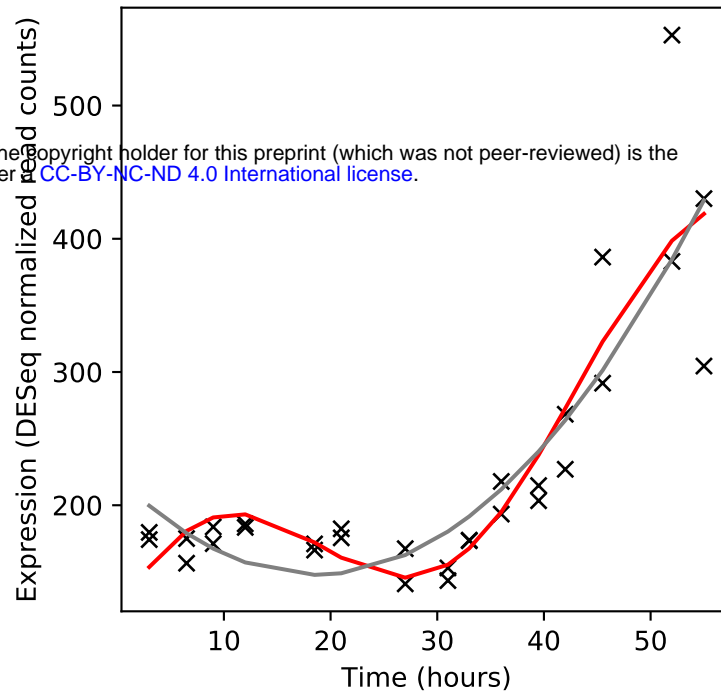
Rv1080c/greA



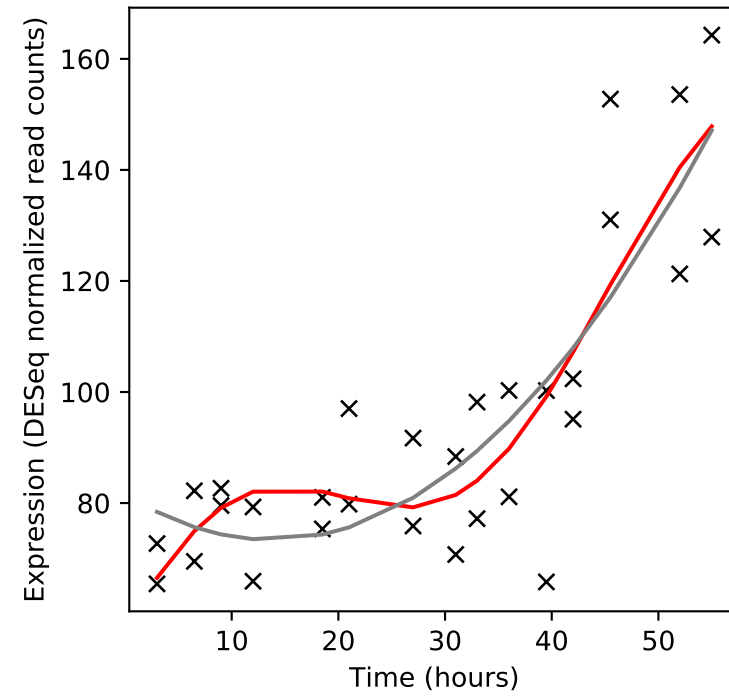
Rv1081c/-



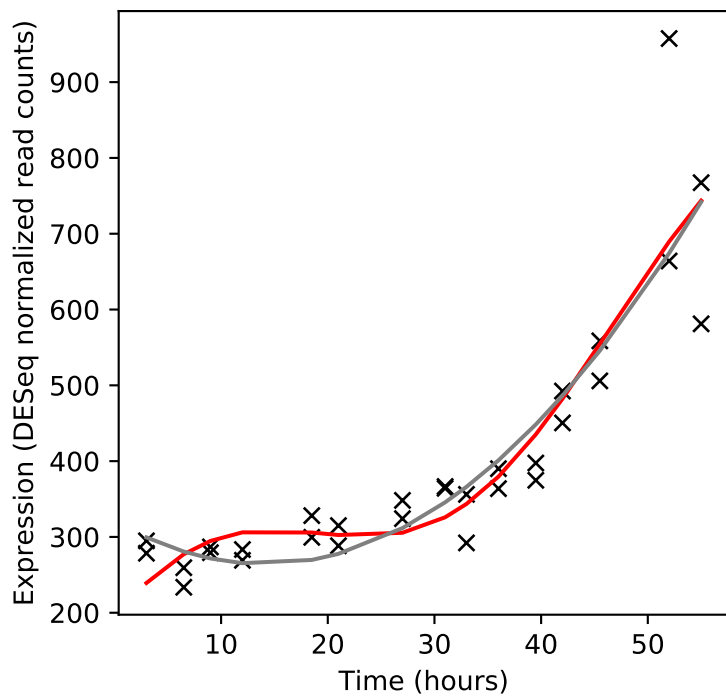
Rv1082/mca



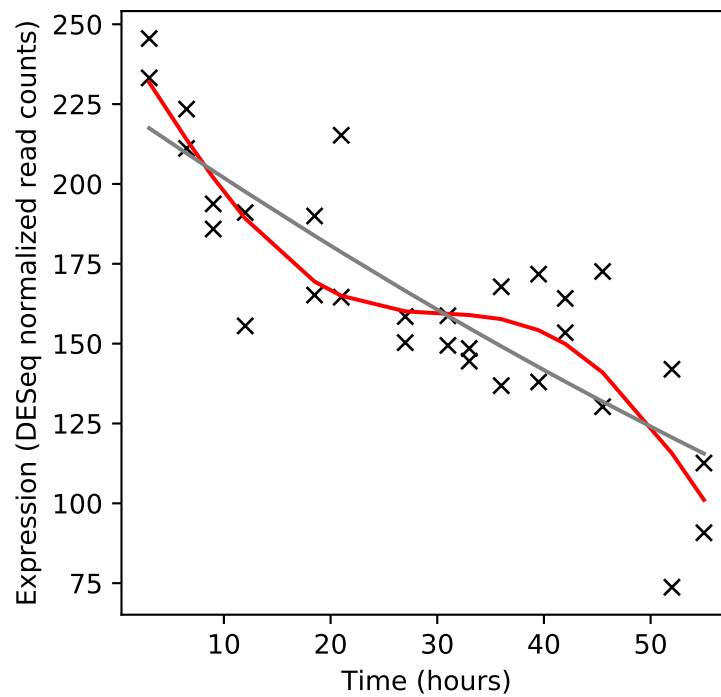
Rv1083/-



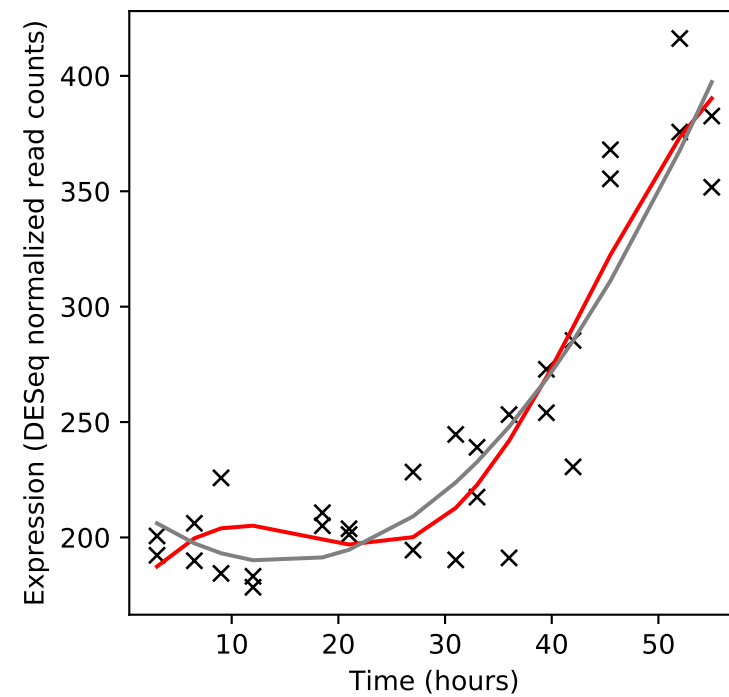
Rv1084/-



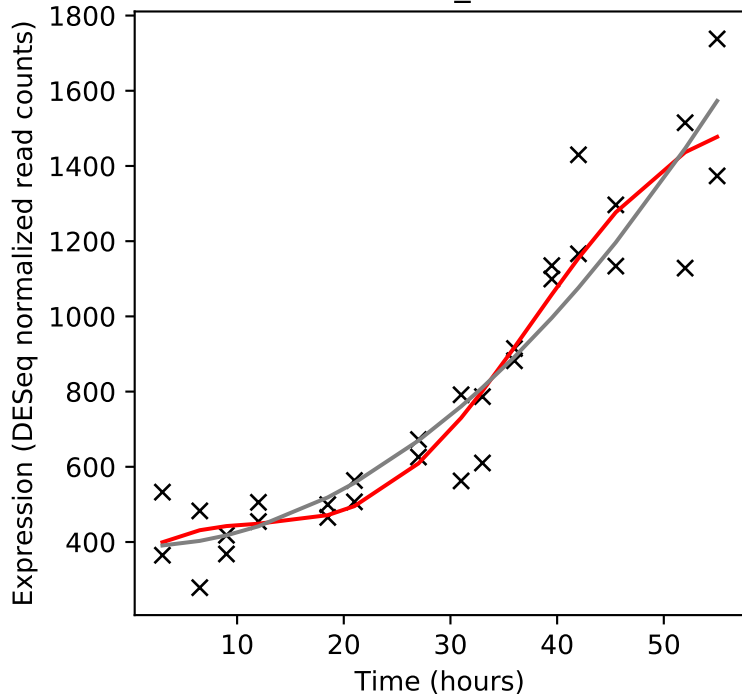
Rv1085c/-



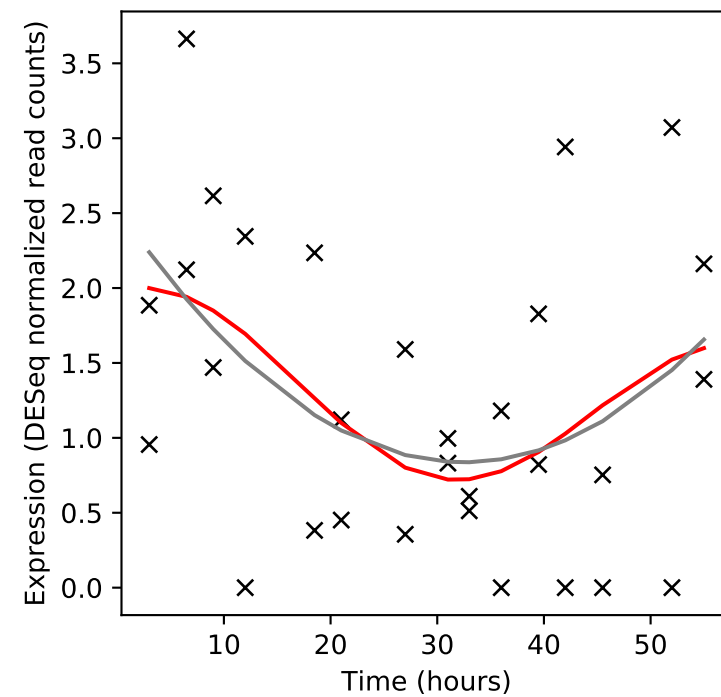
Rv1086/-



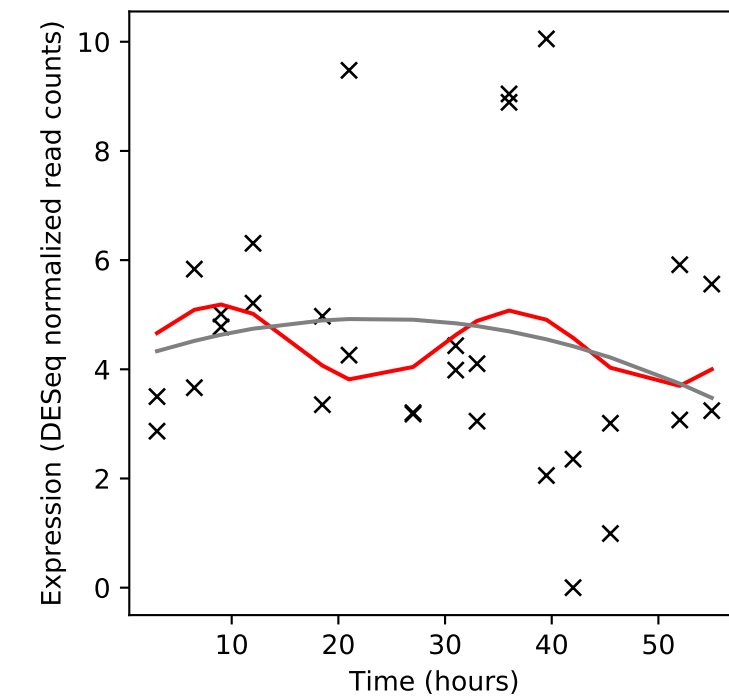
Rv1087/PE_PGRS21



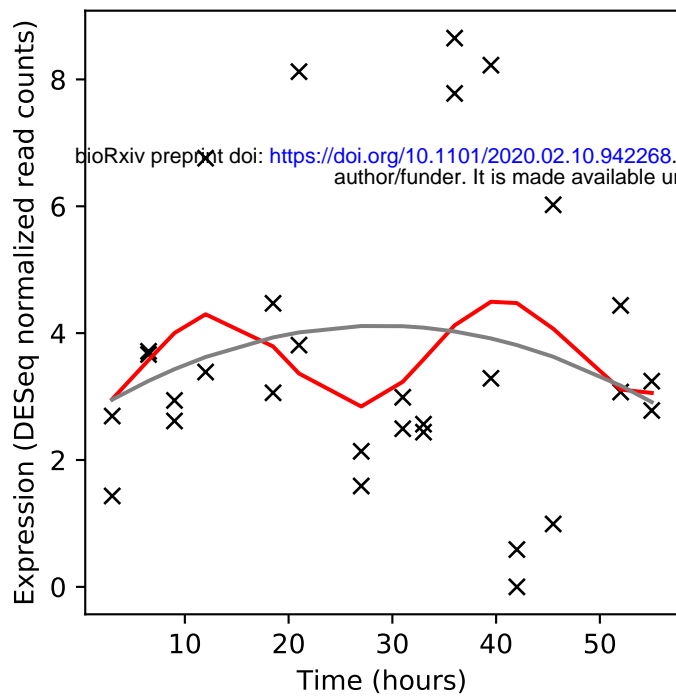
Rv1087A/-



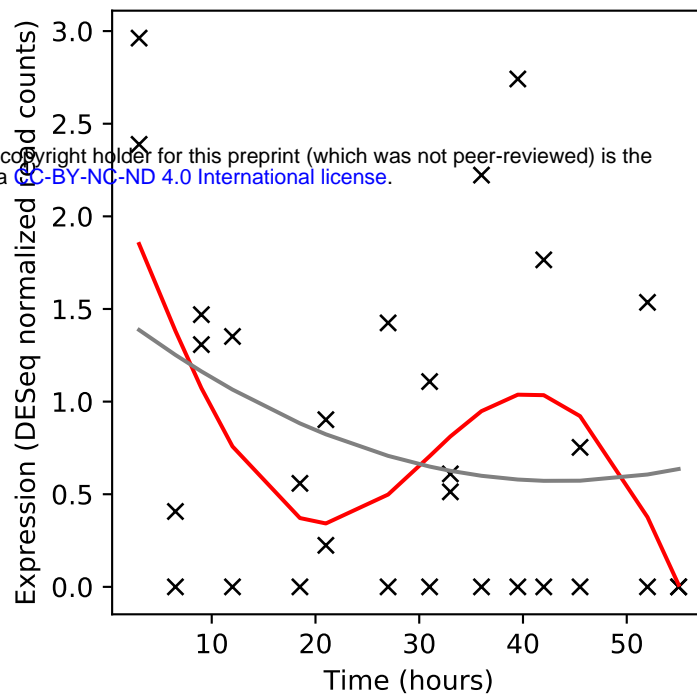
Rv1088/PE9



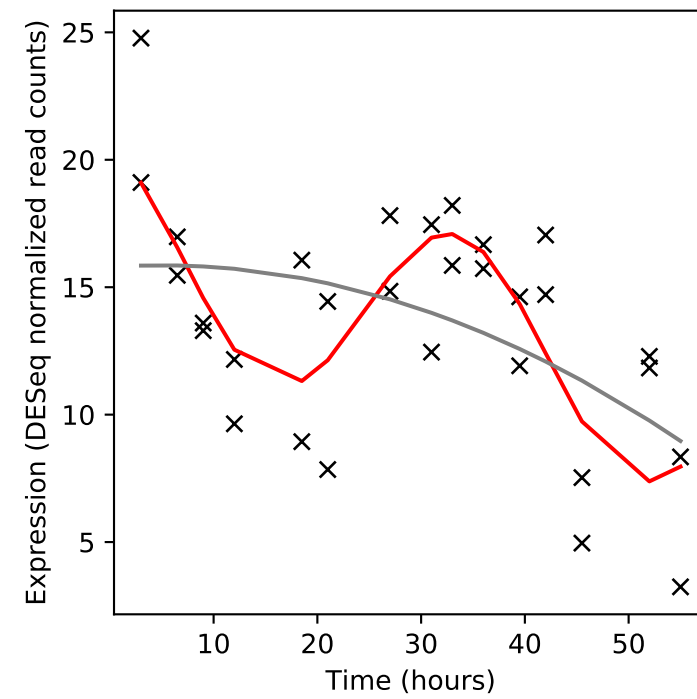
Rv1089/PE10



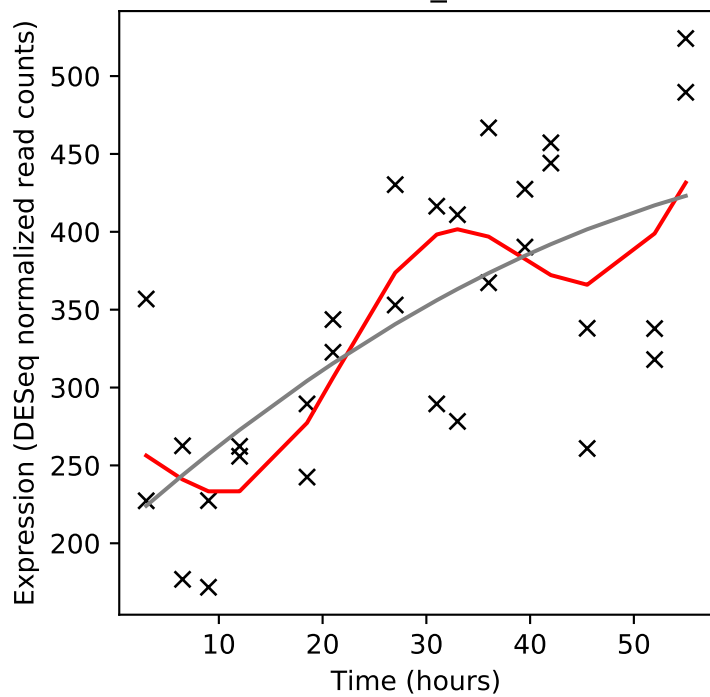
Rv1089A/celA2a



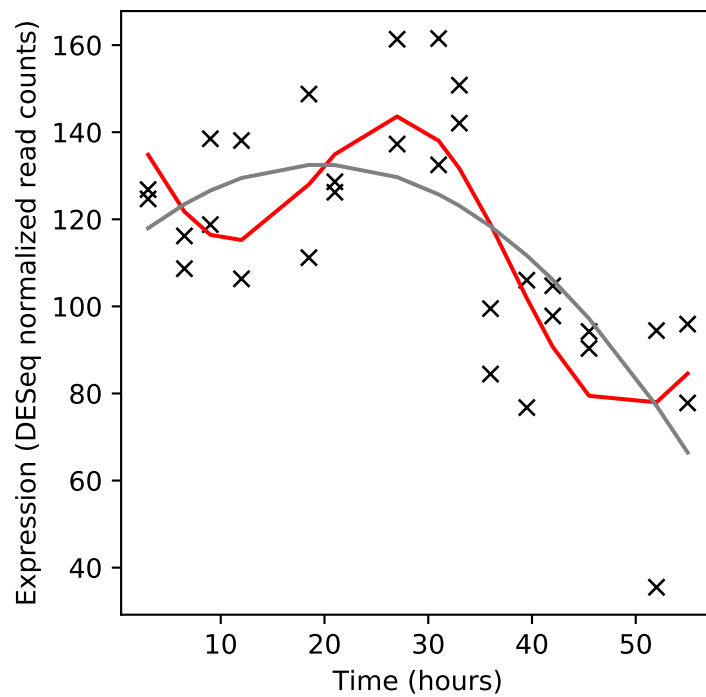
Rv1090/celA2b



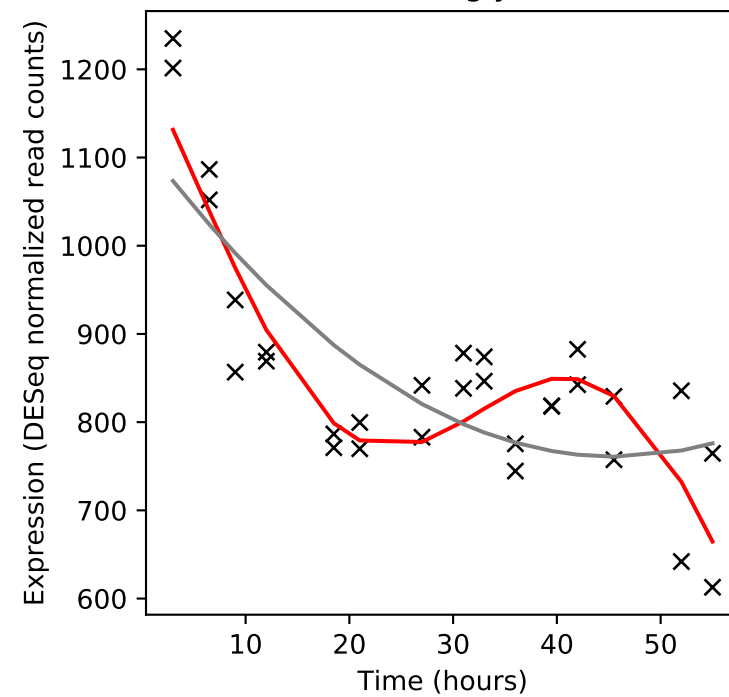
Rv1091/PE_PGRS22



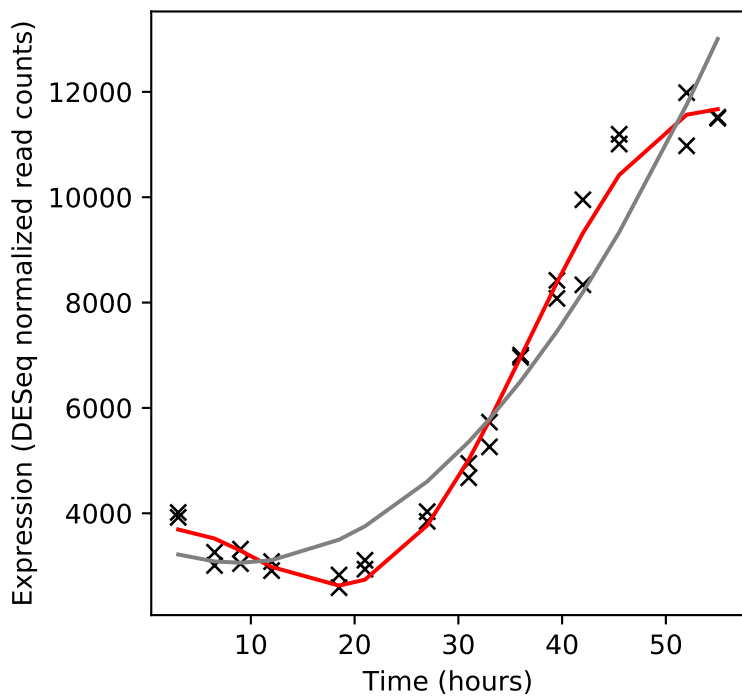
Rv1092c/coaA



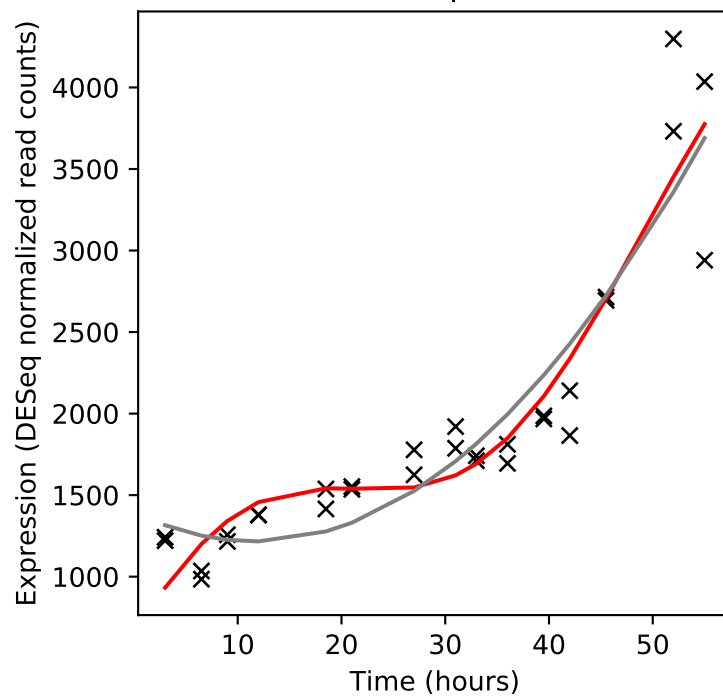
Rv1093/glyA1



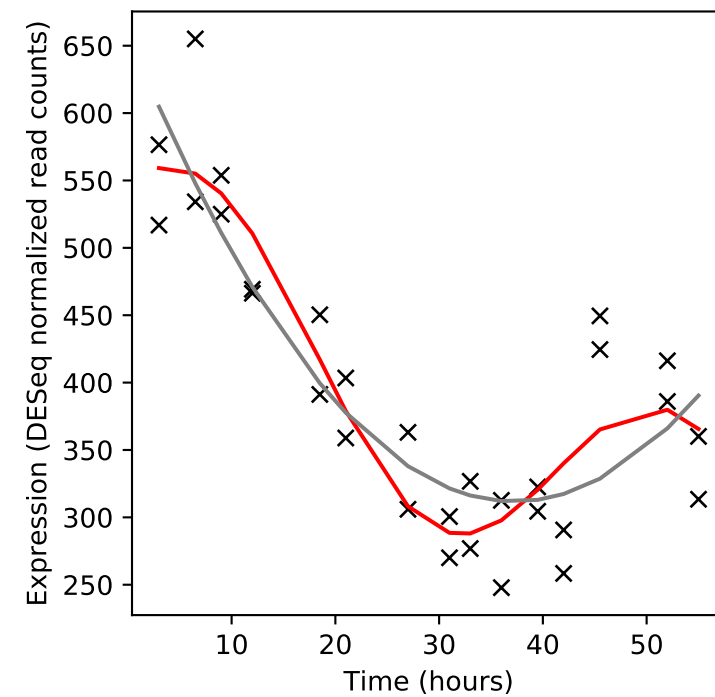
Rv1094/desA2



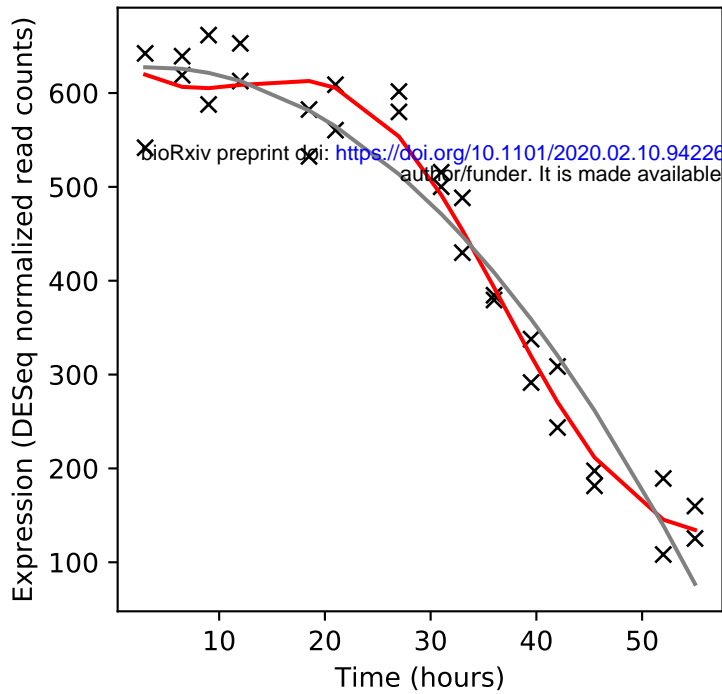
Rv1095/phoH2



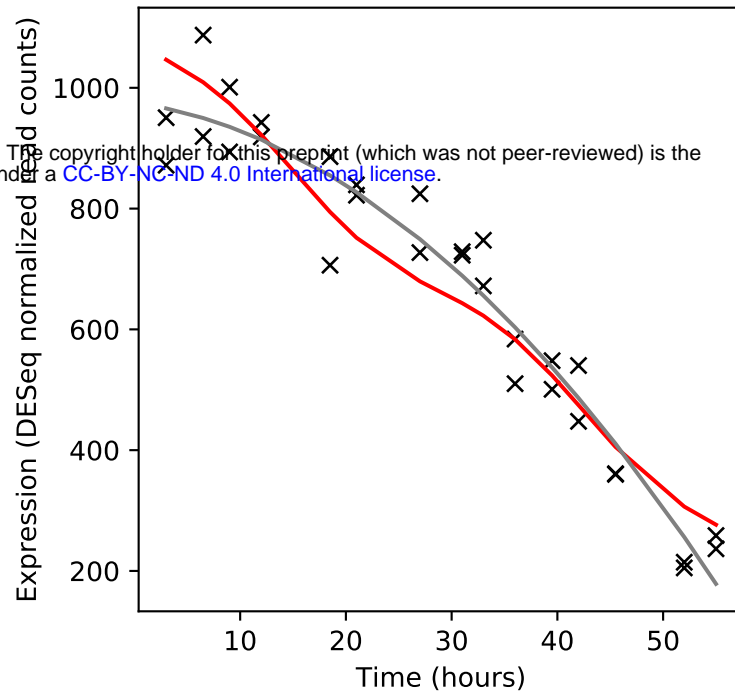
Rv1096/-



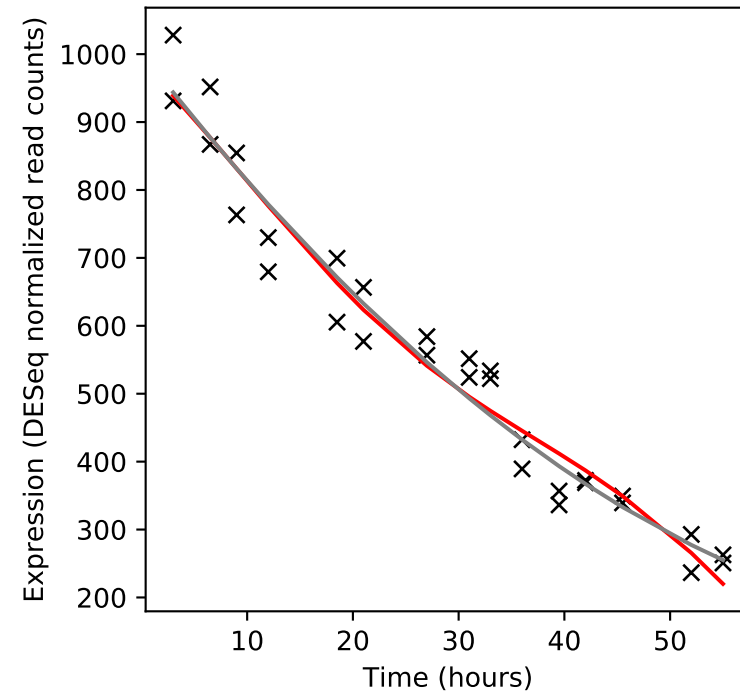
Rv1097c/-



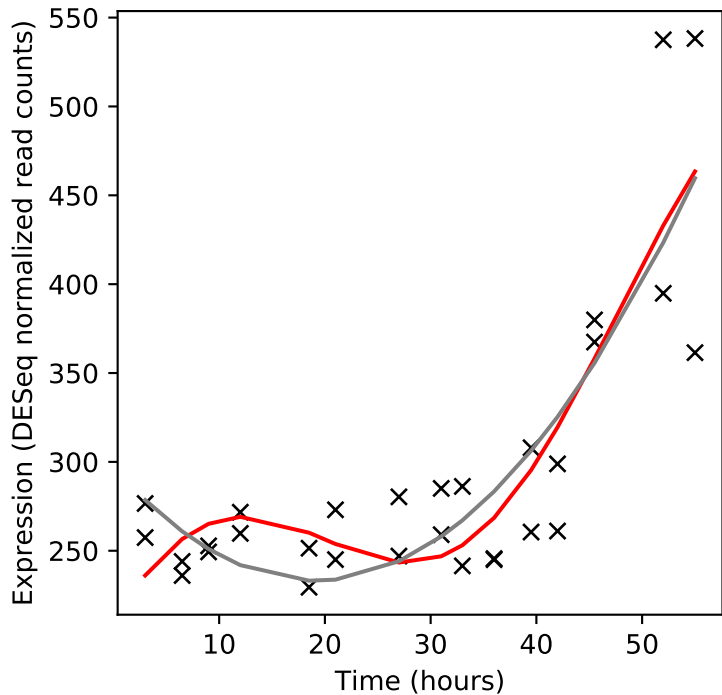
Rv1098c/fum



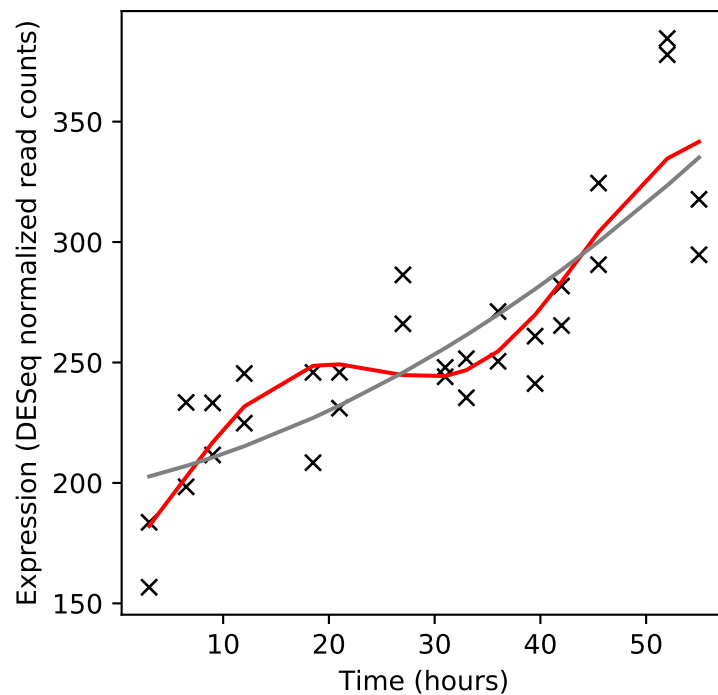
Rv1099c/glpX



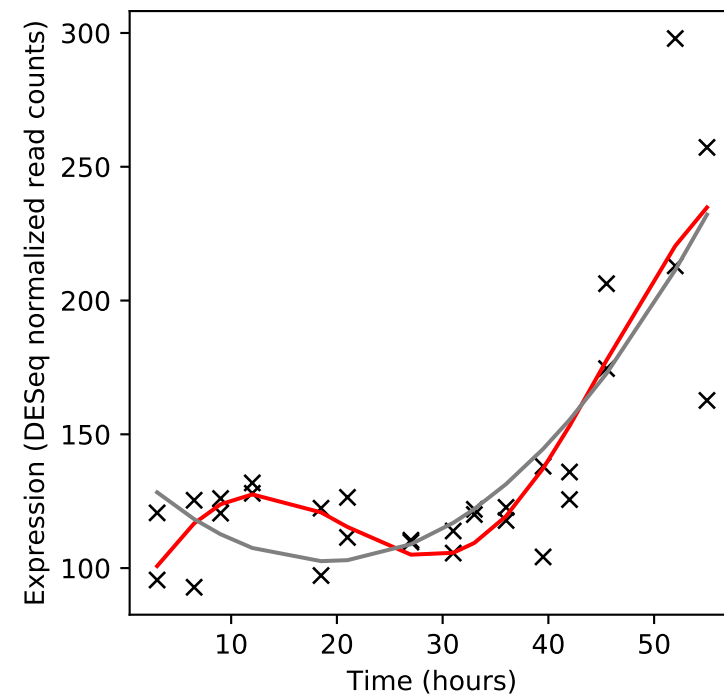
Rv1100/-



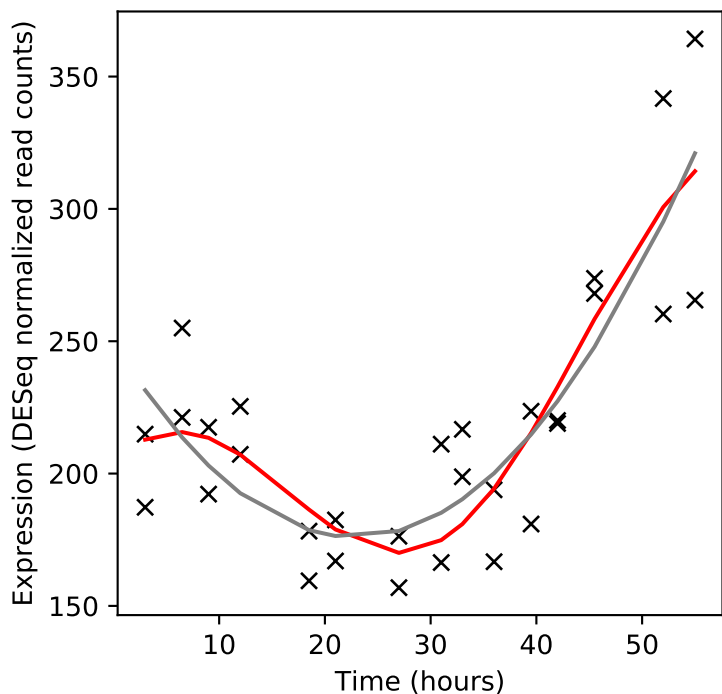
Rv1101c/-



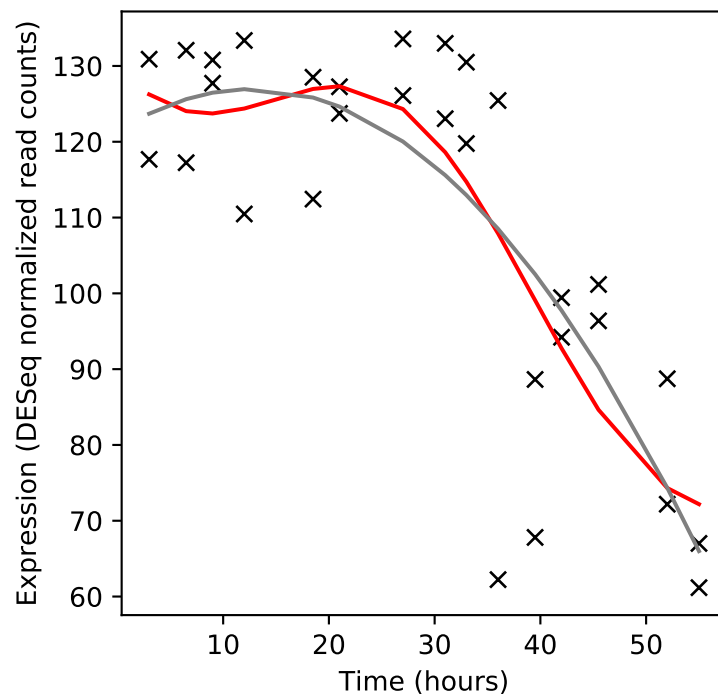
Rv1102c/mazF3



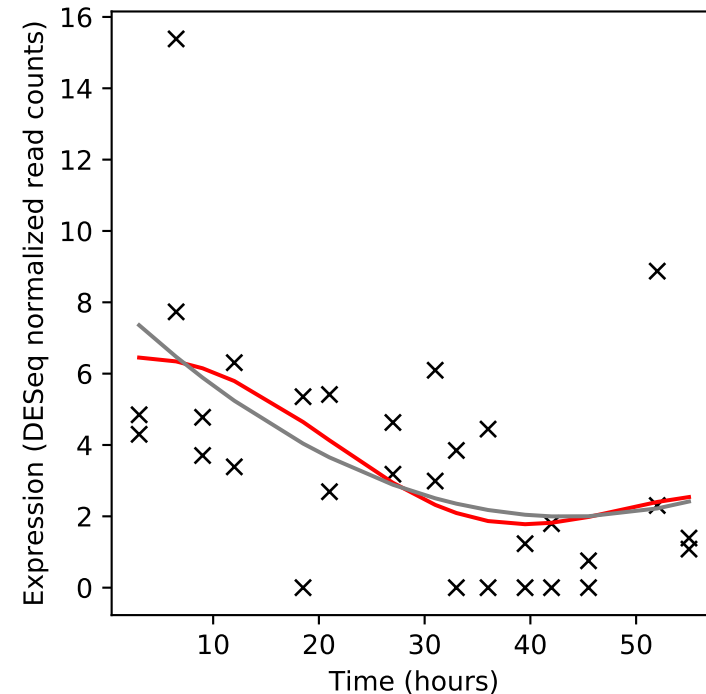
Rv1103c/mazE3



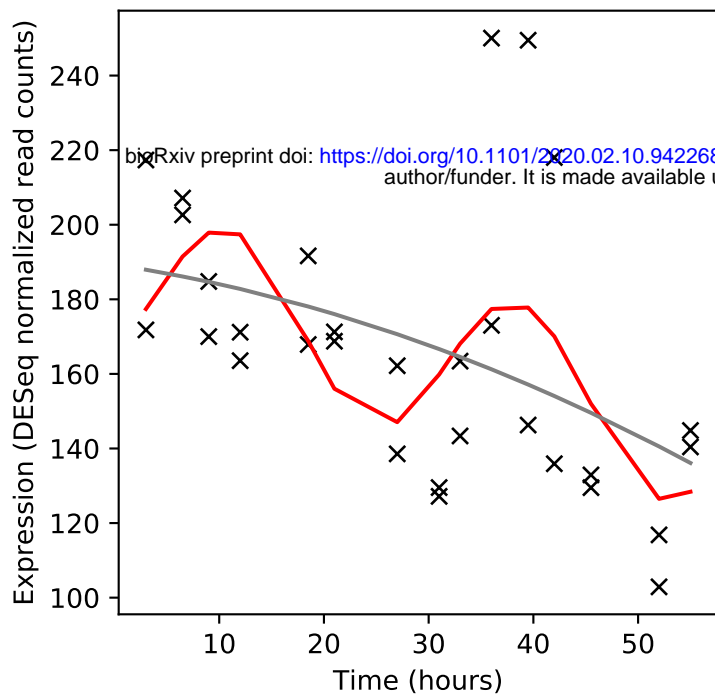
Rv1104/-



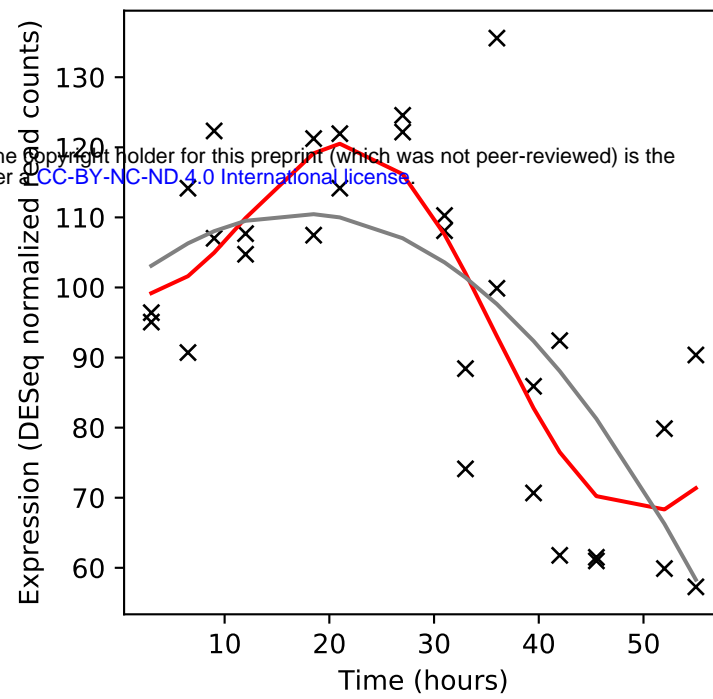
Rv1105/-



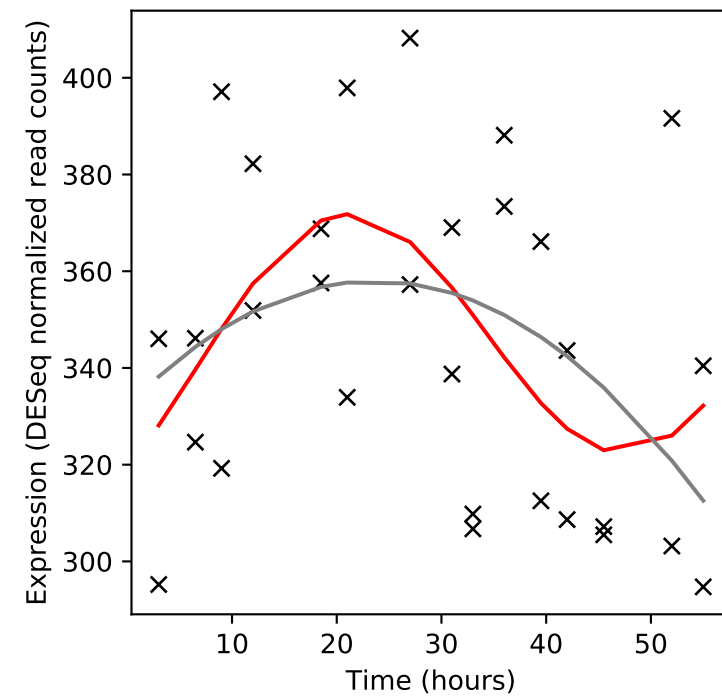
Rv1106c/-



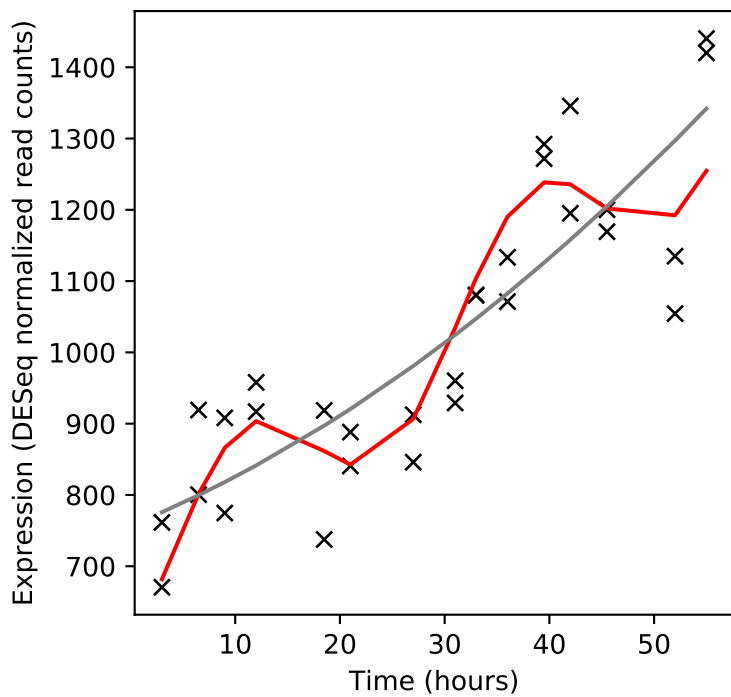
Rv1107c/xseB



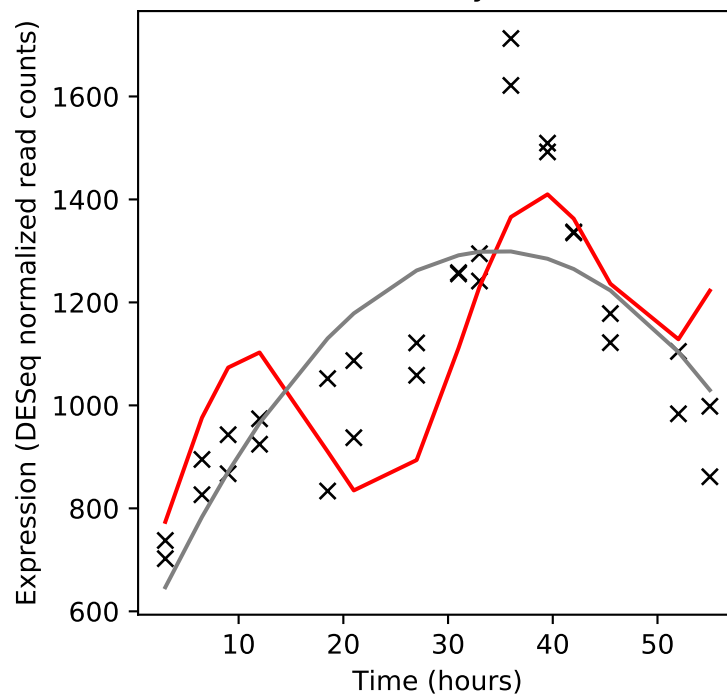
Rv1108c/xseA



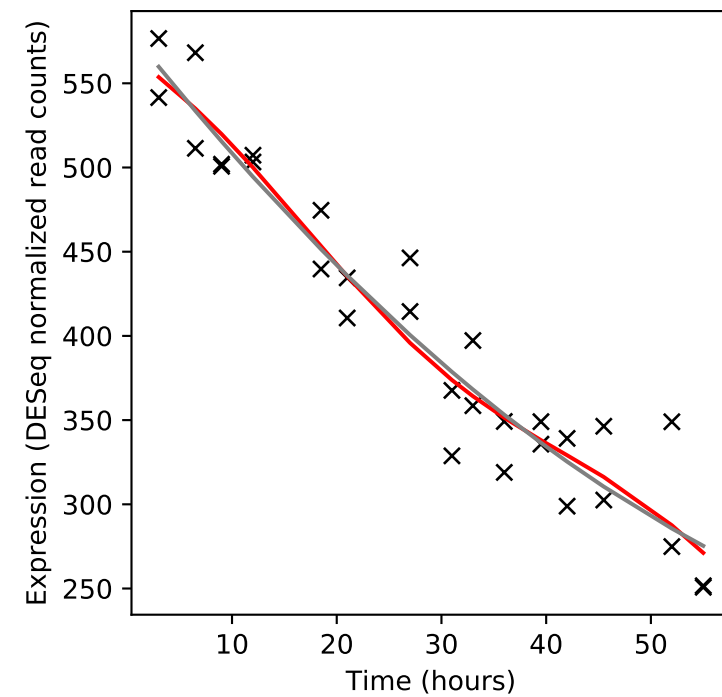
Rv1109c/-



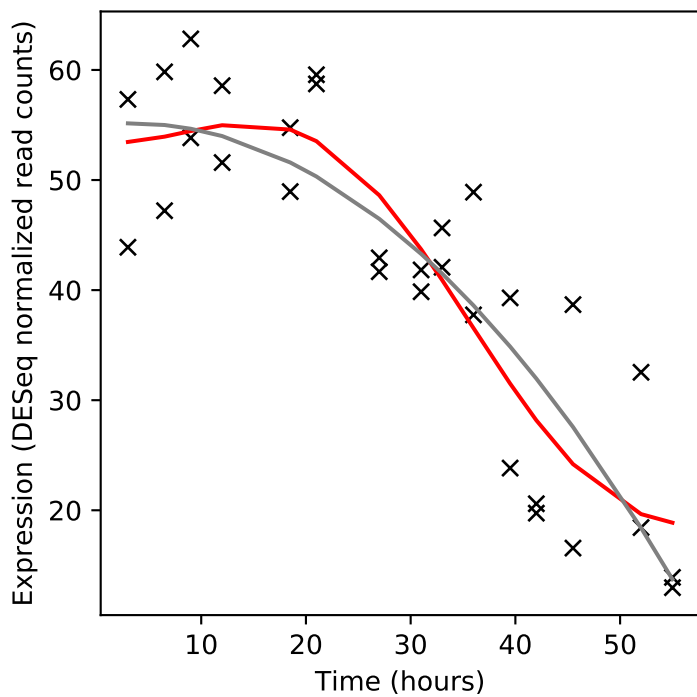
Rv1110/lytB2



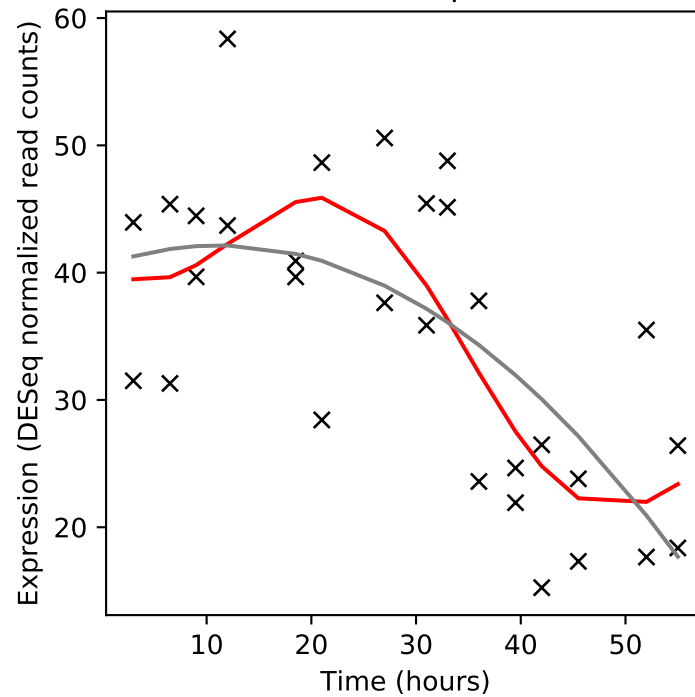
Rv1111c/-



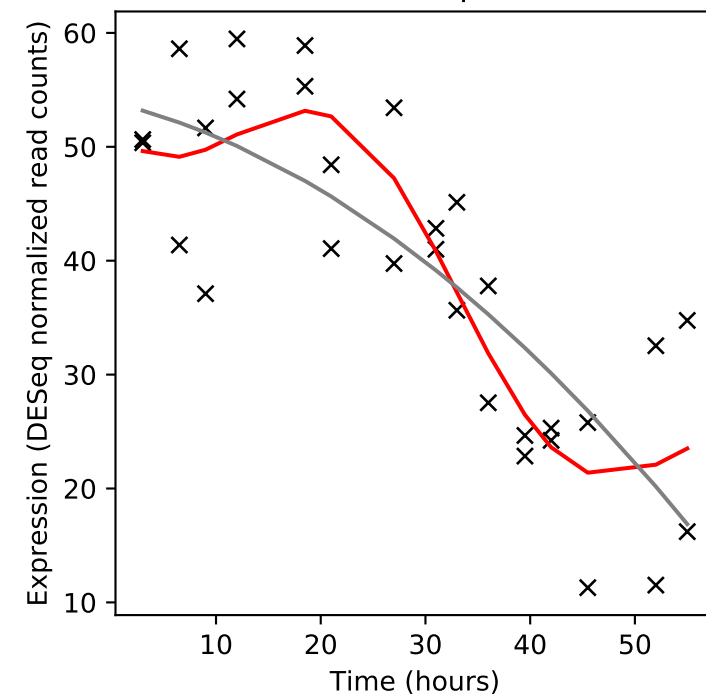
Rv1112/-



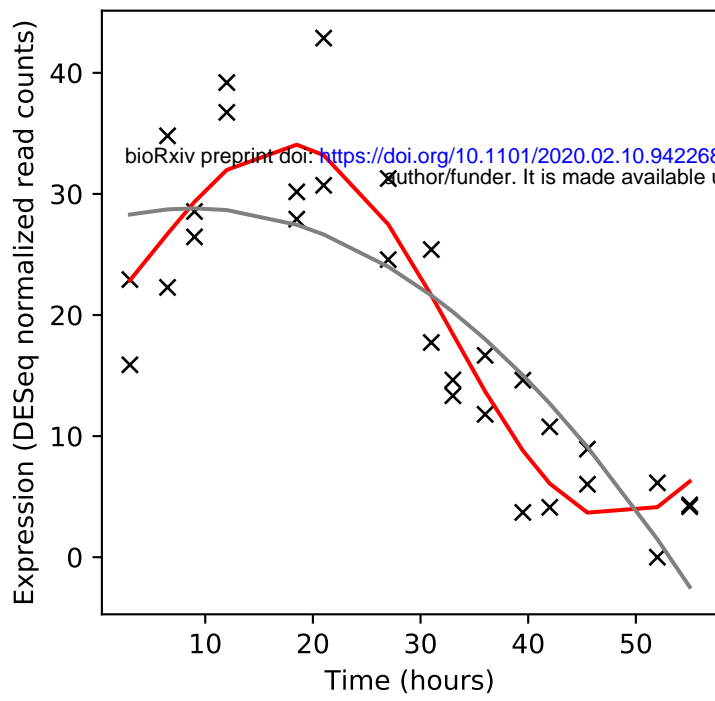
Rv1113/vapB32



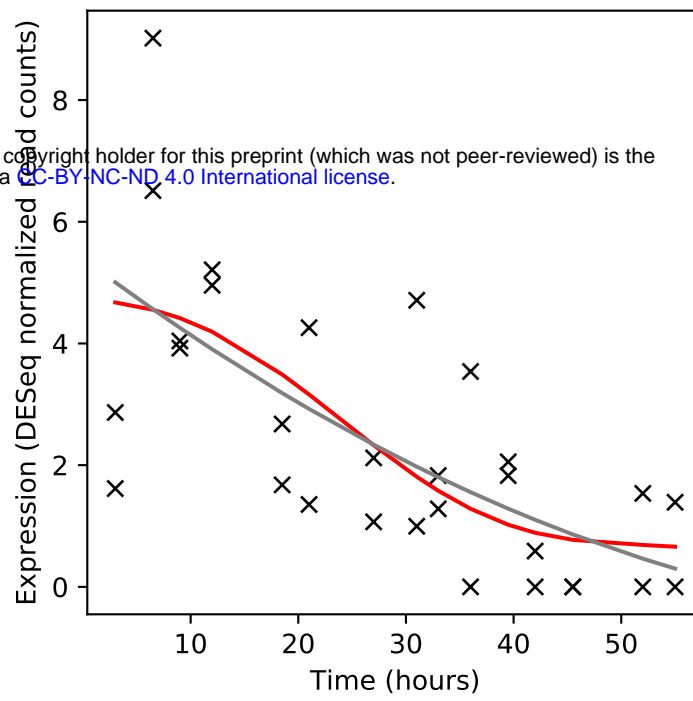
Rv1114/vapC32



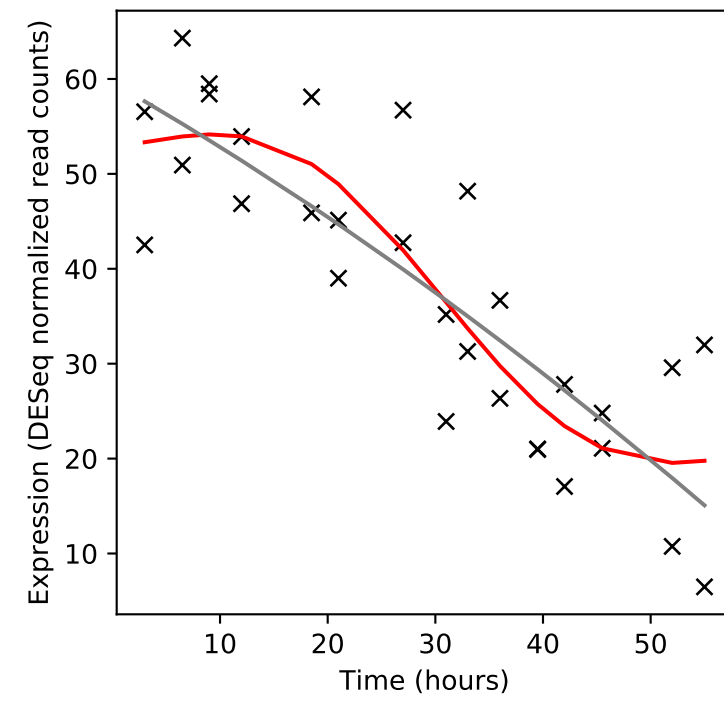
Rv1115/-



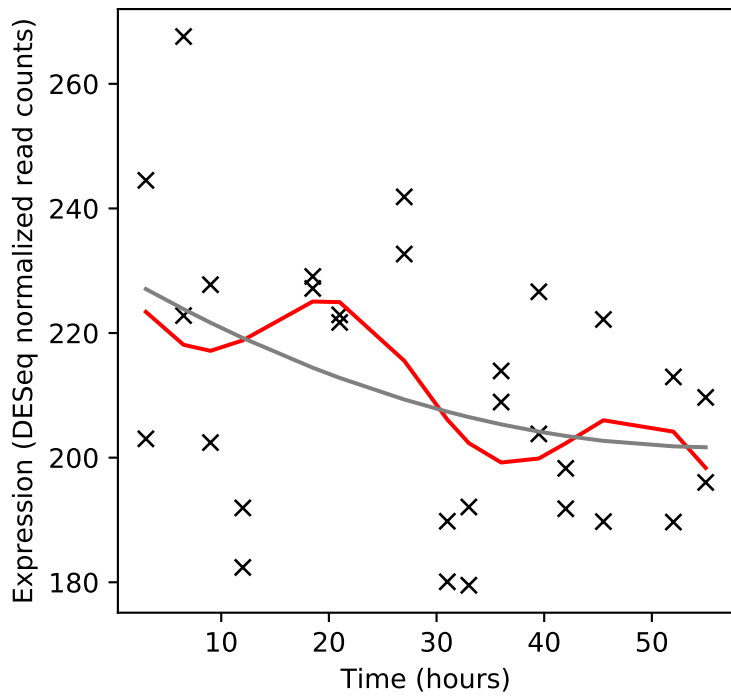
Rv1116/-



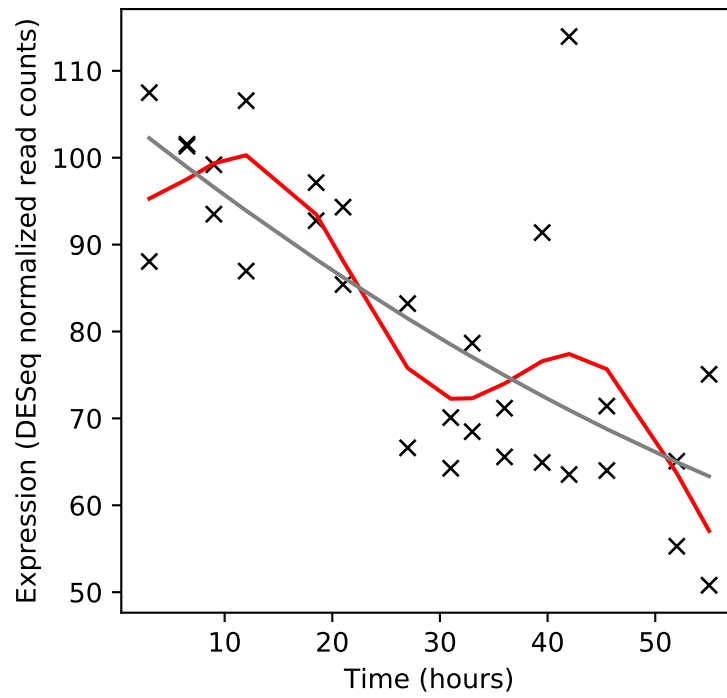
Rv1116A/-



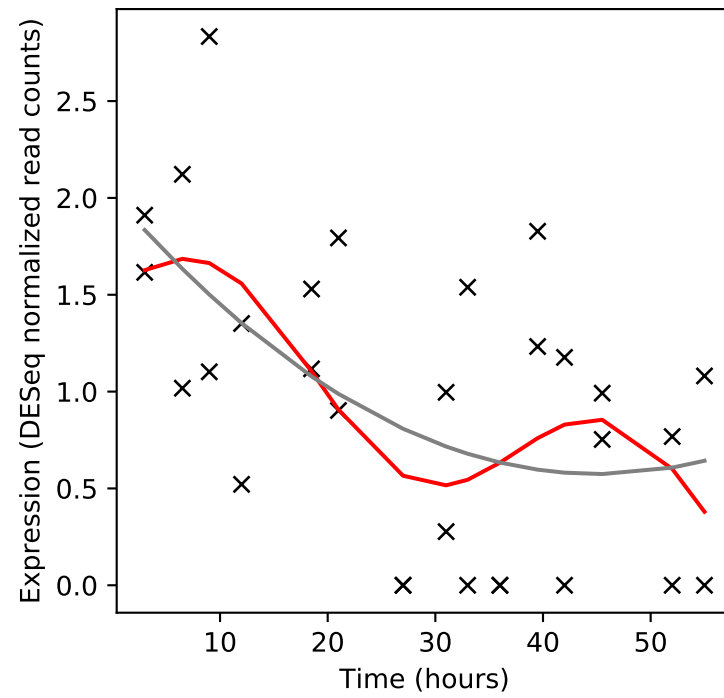
Rv1117/-



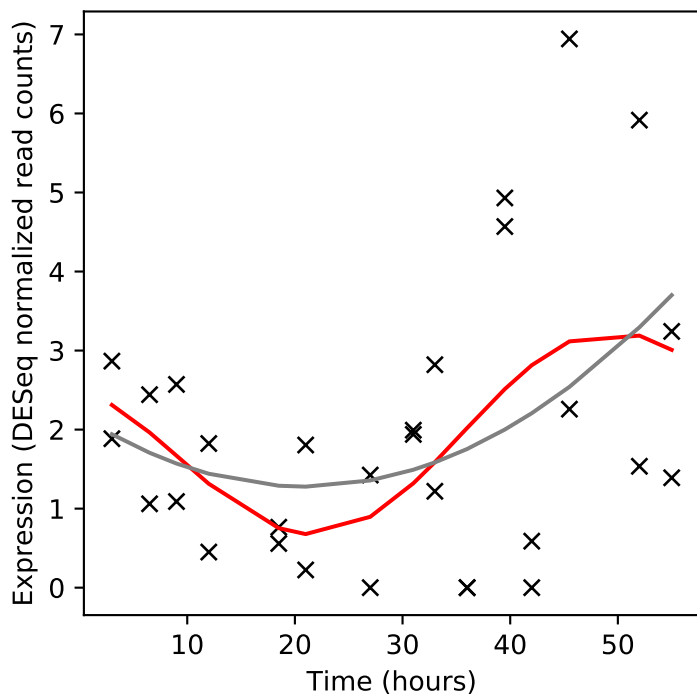
Rv1118c/-



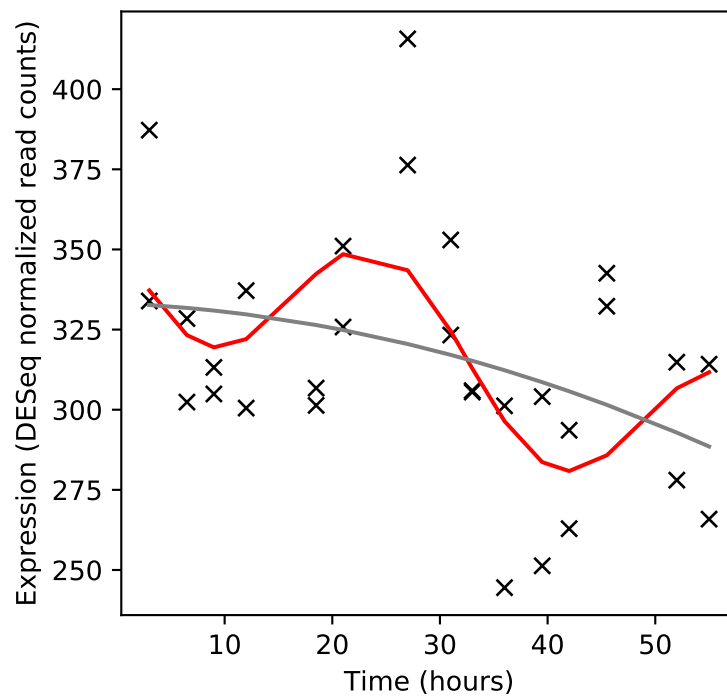
Rv1119c/-



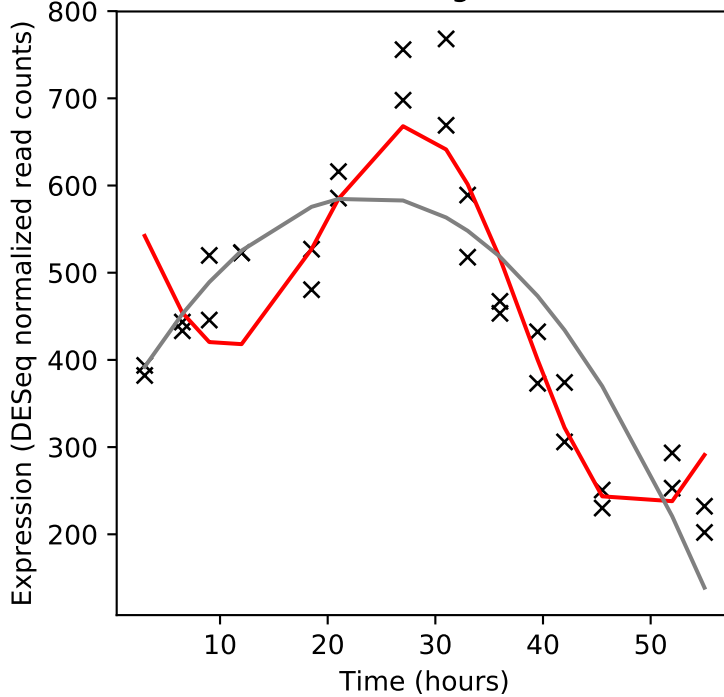
Rv1120c/-



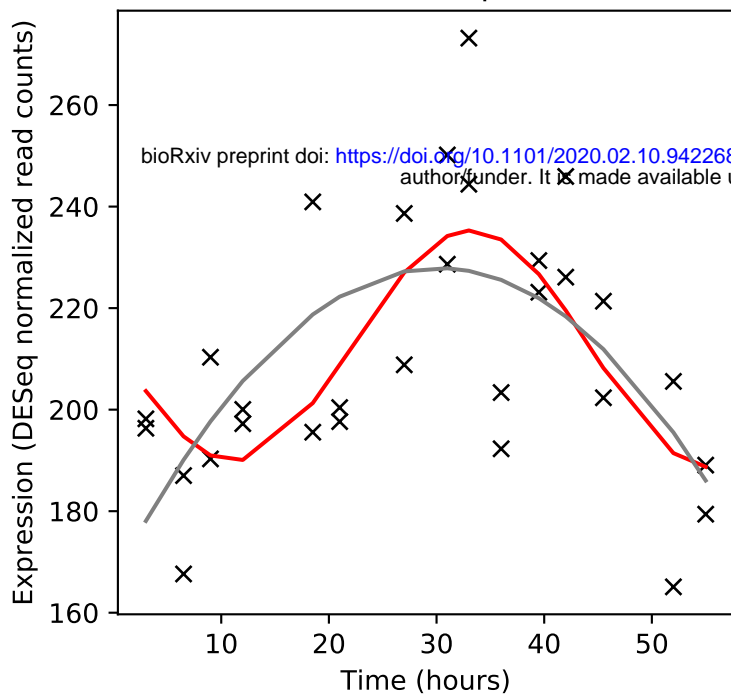
Rv1121/zwf1



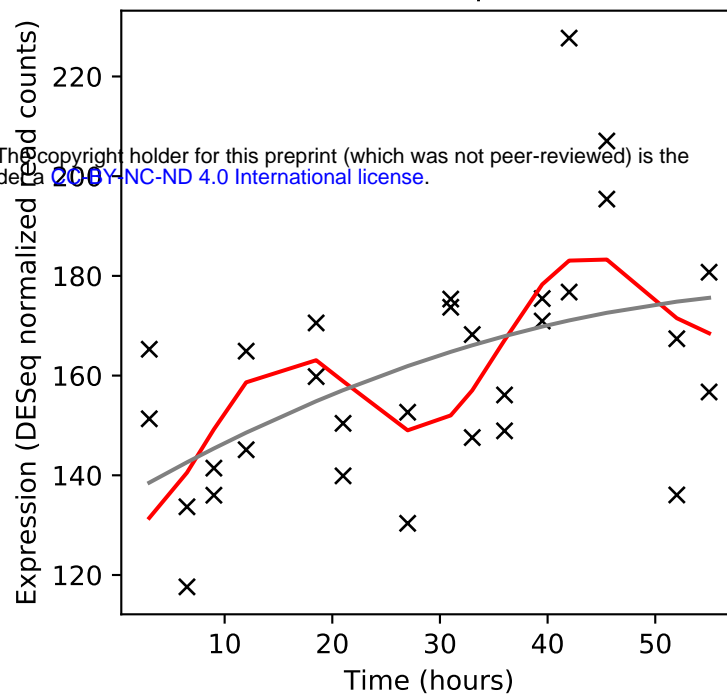
Rv1122/gnd2



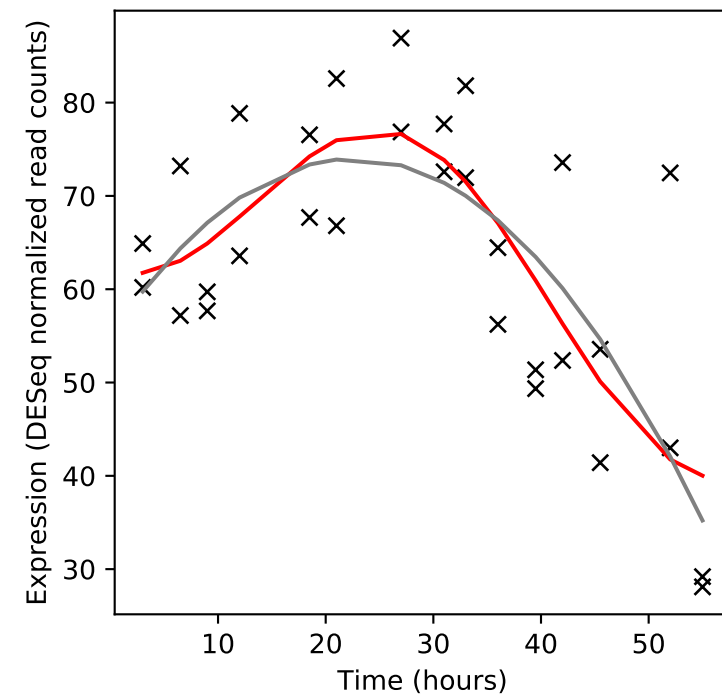
Rv1123c/bpoB



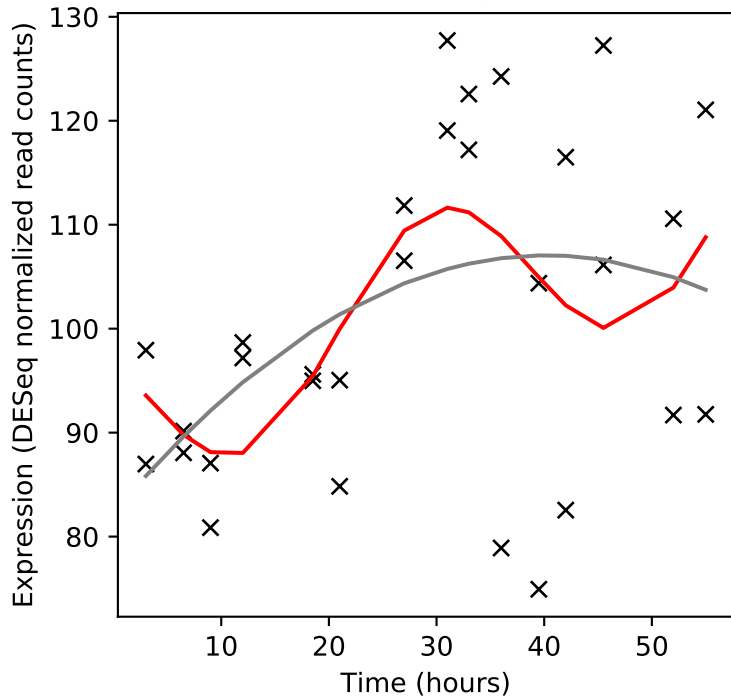
Rv1124/ephC



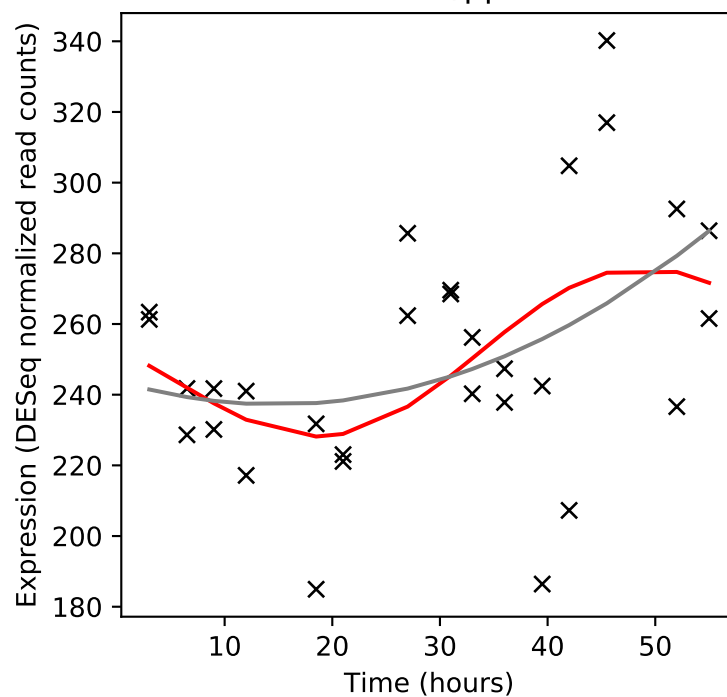
Rv1125/-



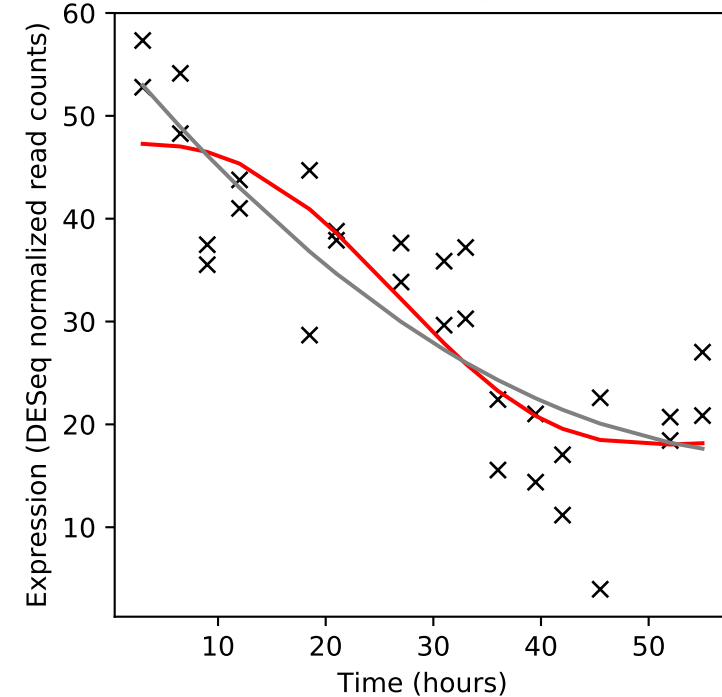
Rv1126c/-



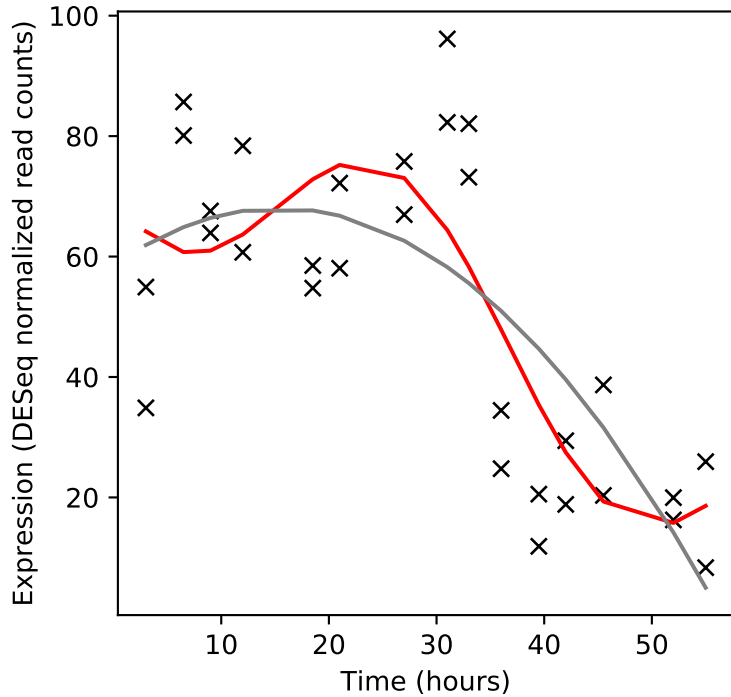
Rv1127c/ppdK



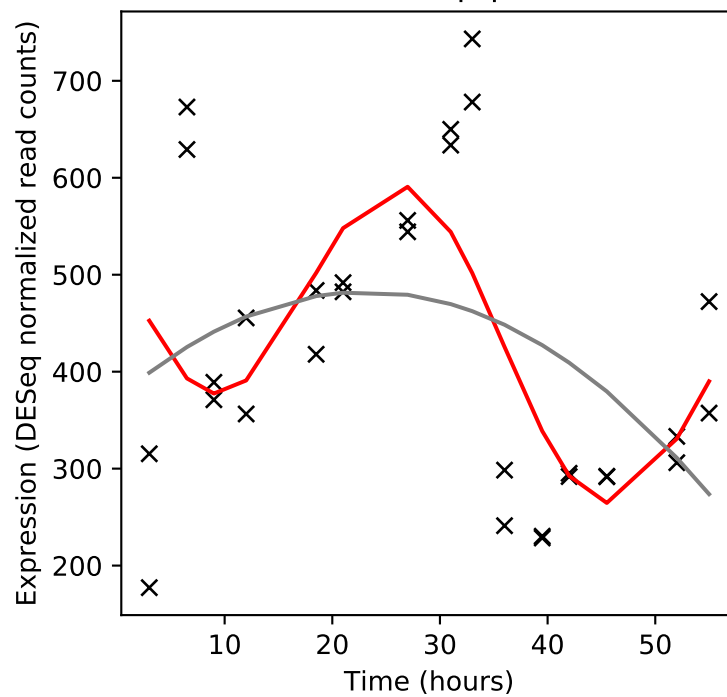
Rv1128c/-



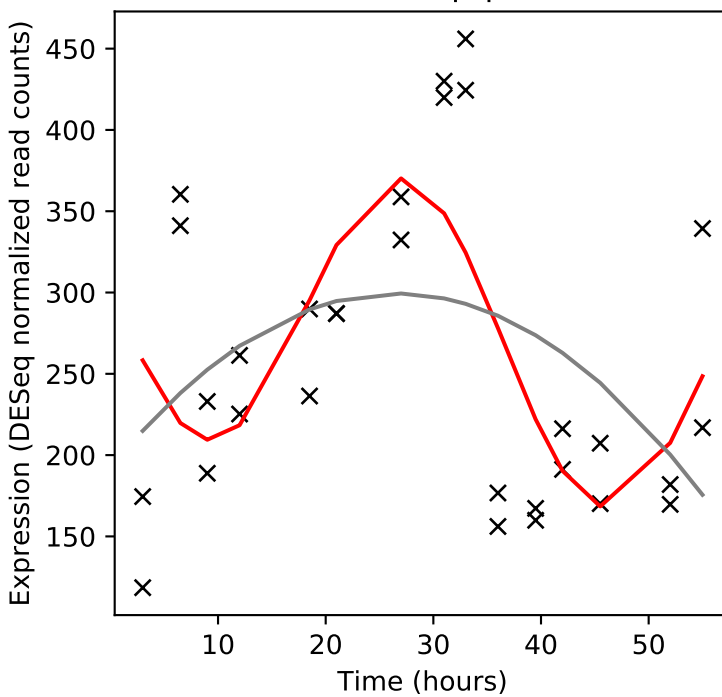
Rv1129c/-



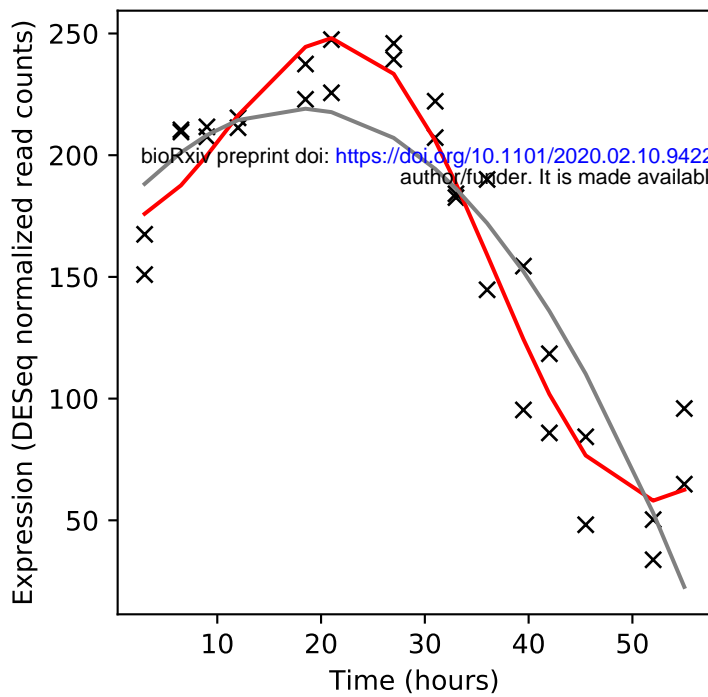
Rv1130/prpD



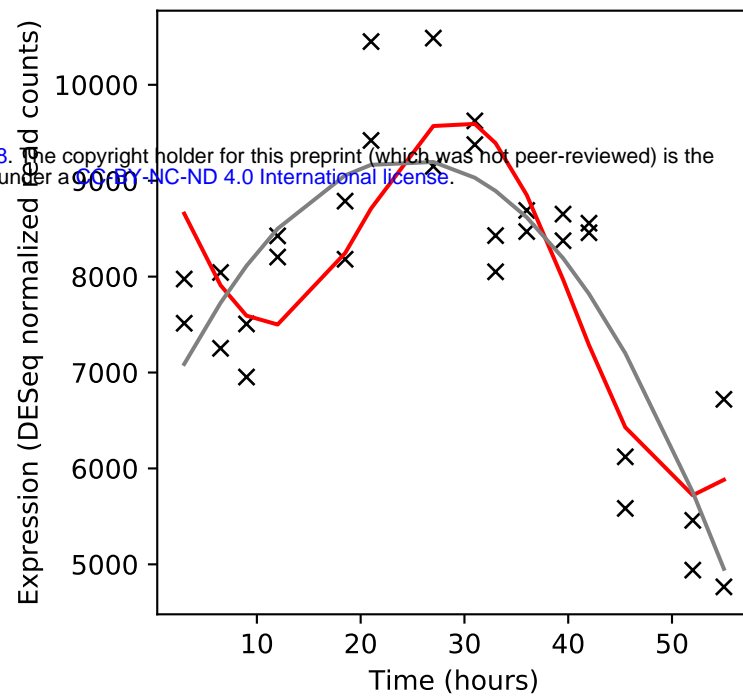
Rv1131/prpC



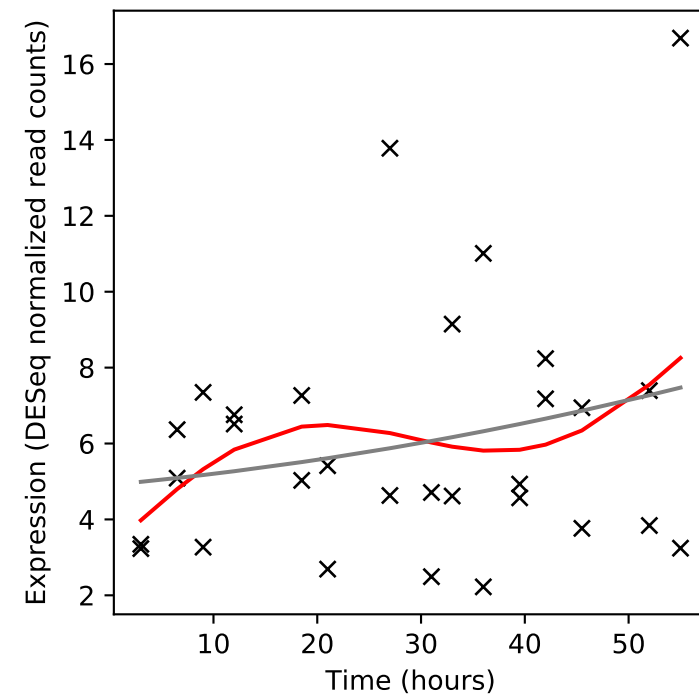
Rv1132/-



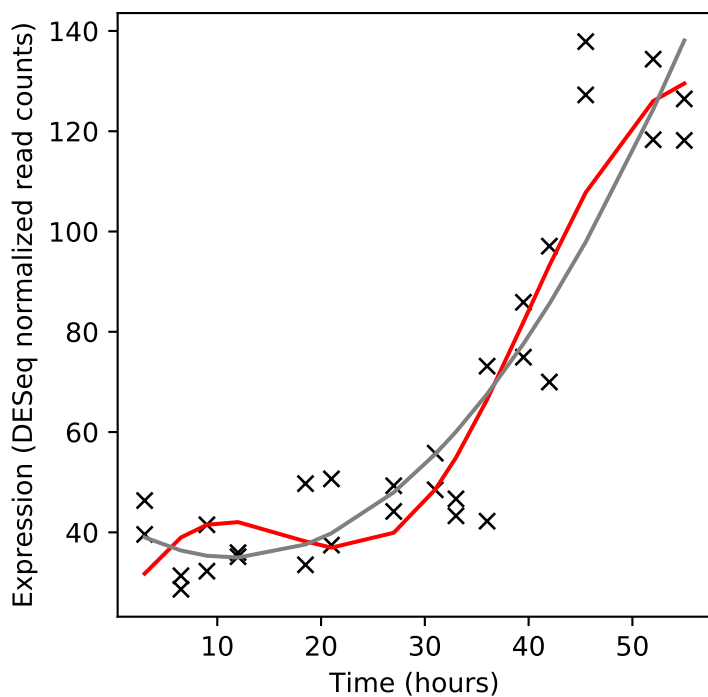
Rv1133c/metE



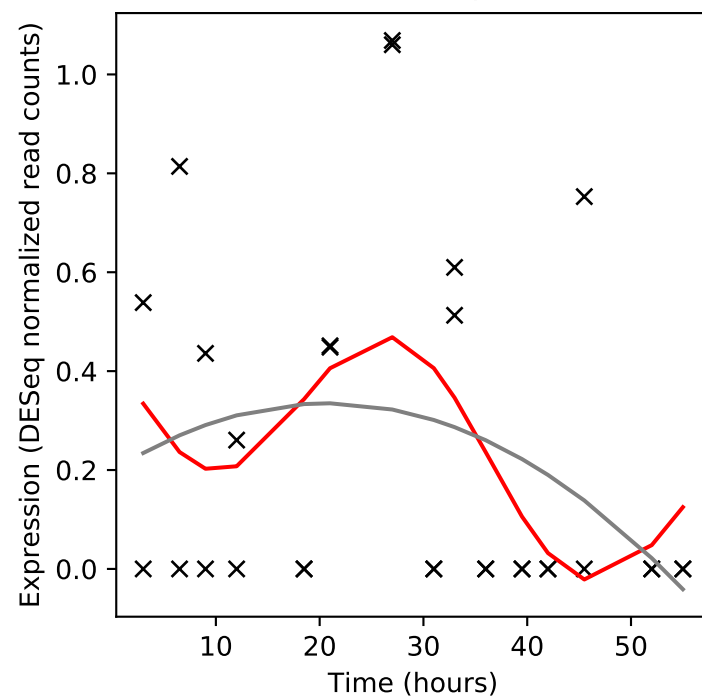
Rv1134/-



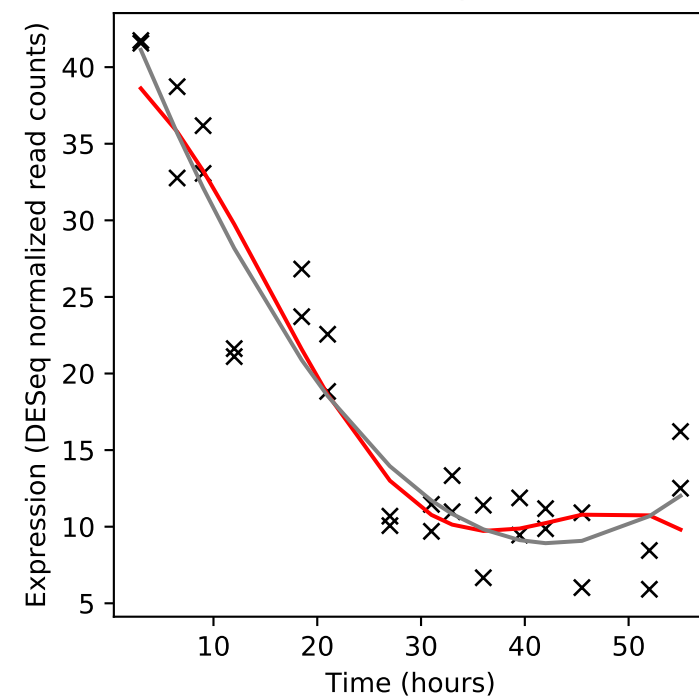
Rv1135c/PPE16



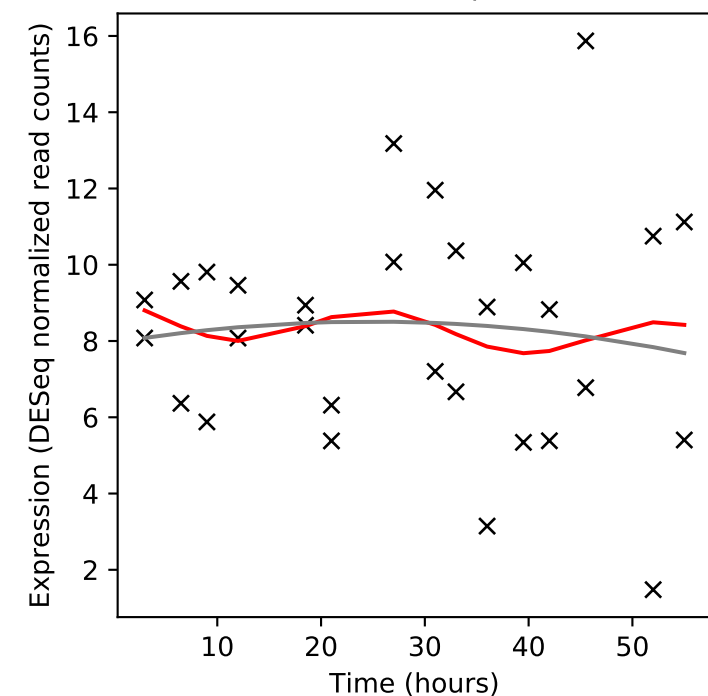
Rv1135A/-



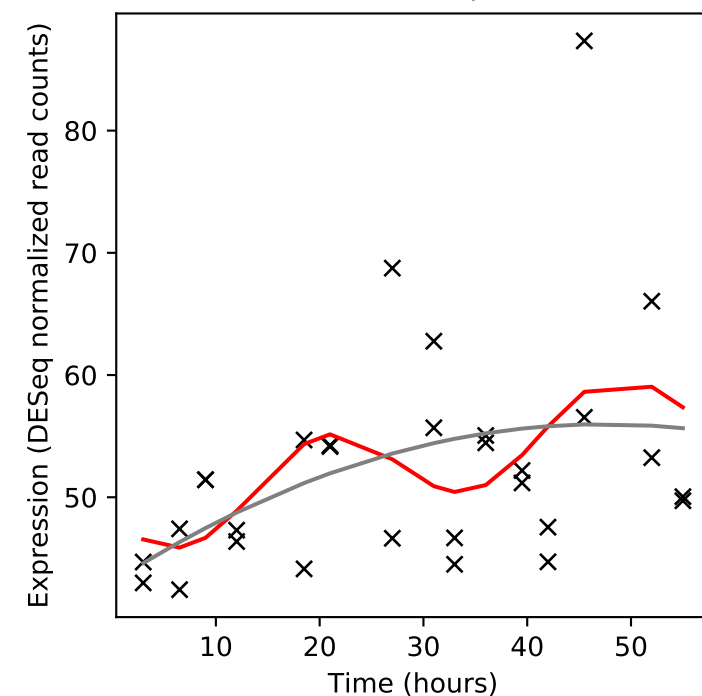
Rv1136/-



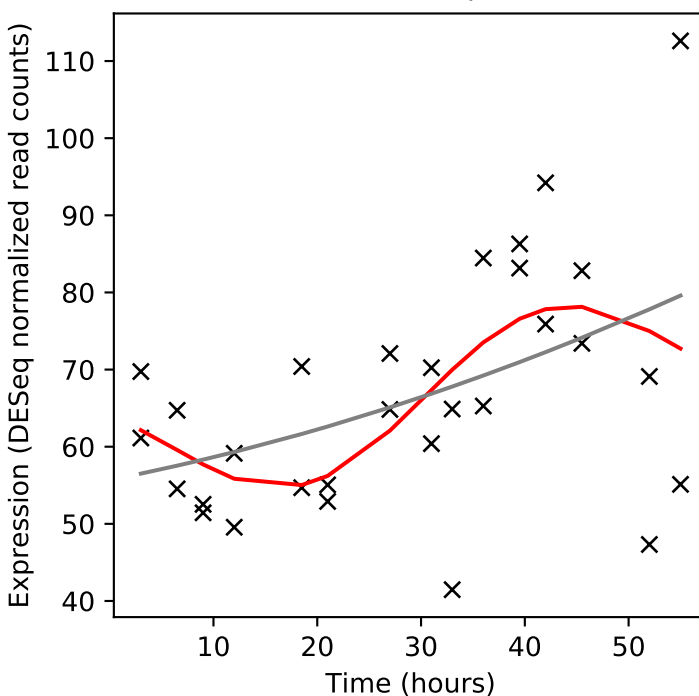
Rv1137c/-



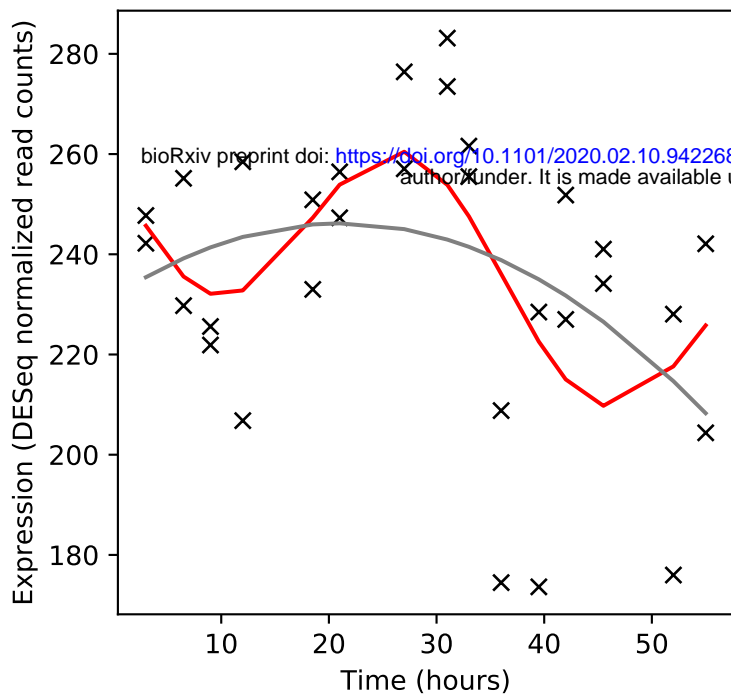
Rv1138c/-



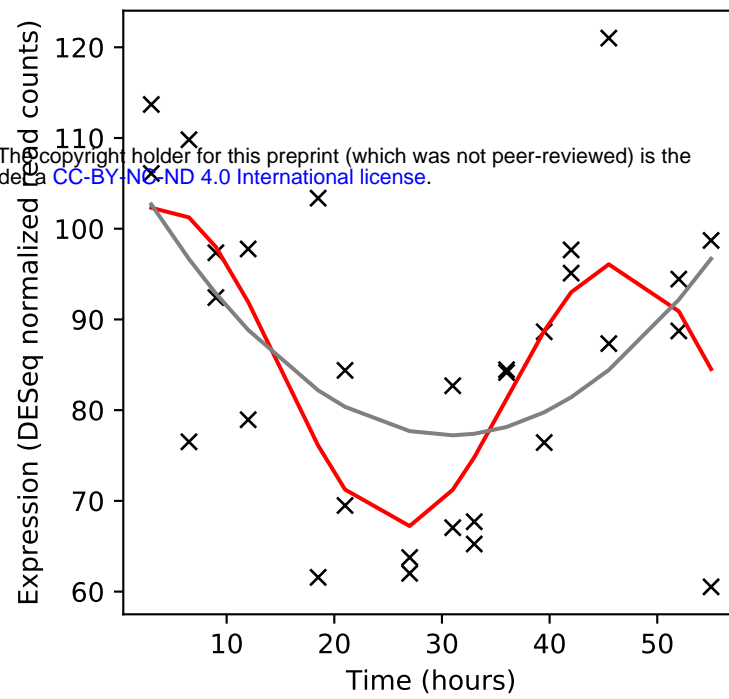
Rv1139c/-



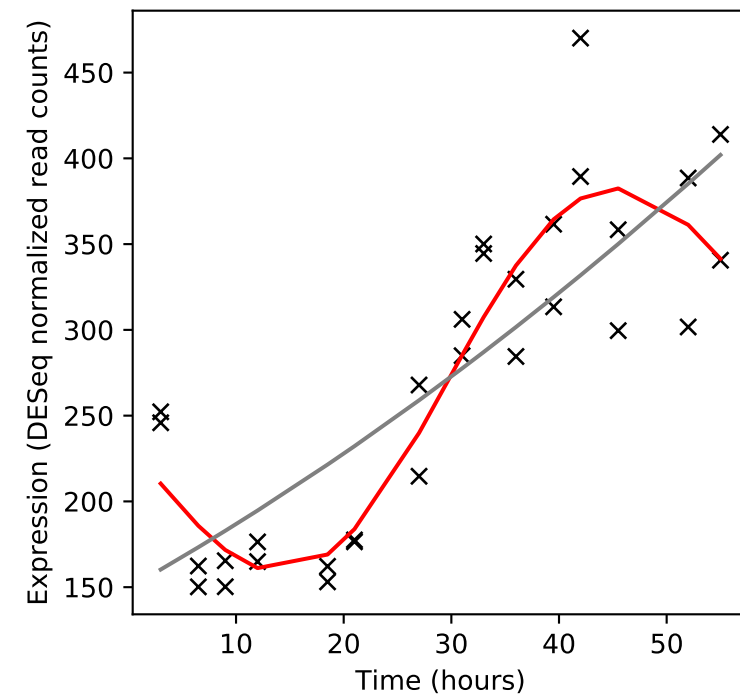
Rv1140/-



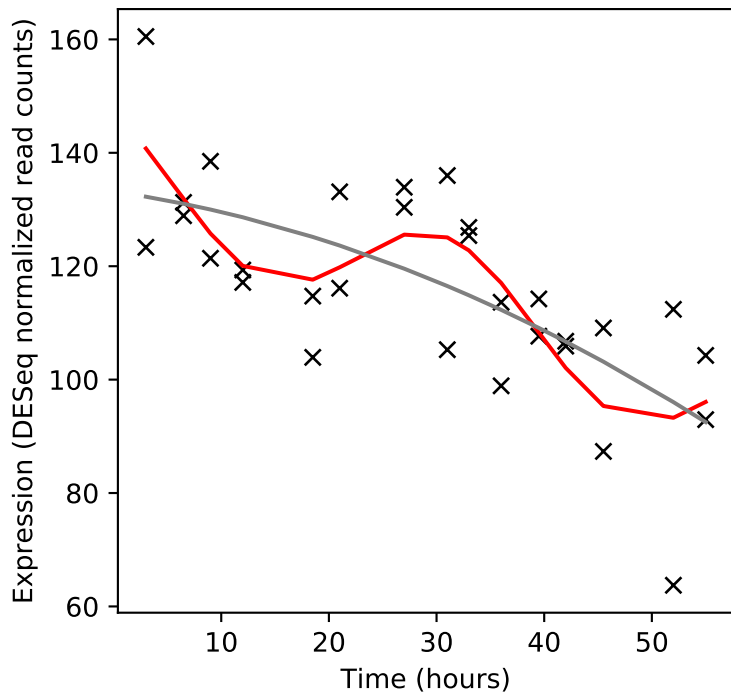
Rv1141c/echA11



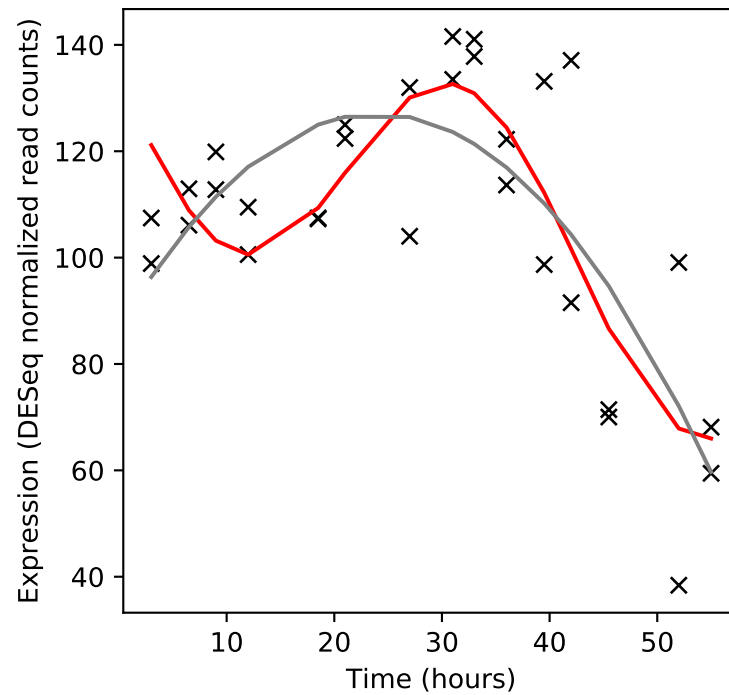
Rv1142c/echA10



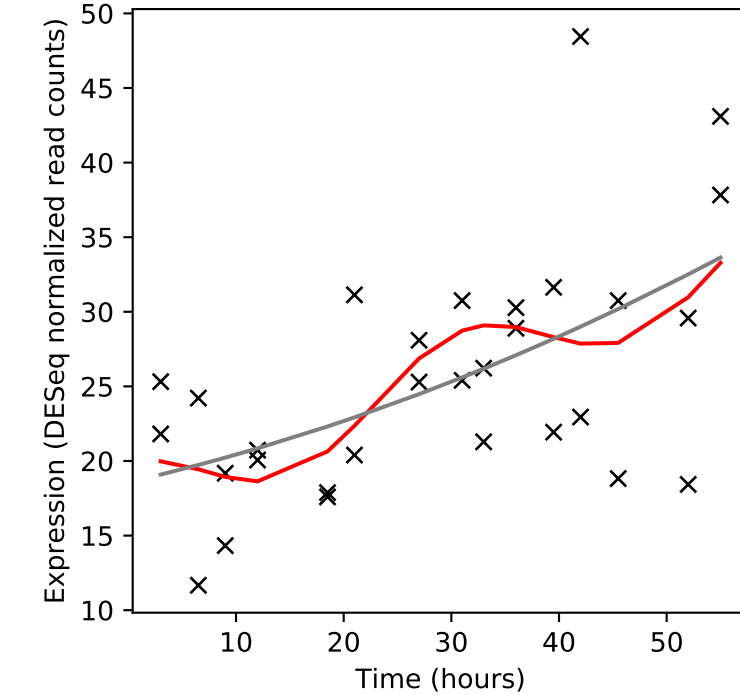
Rv1143/mcr



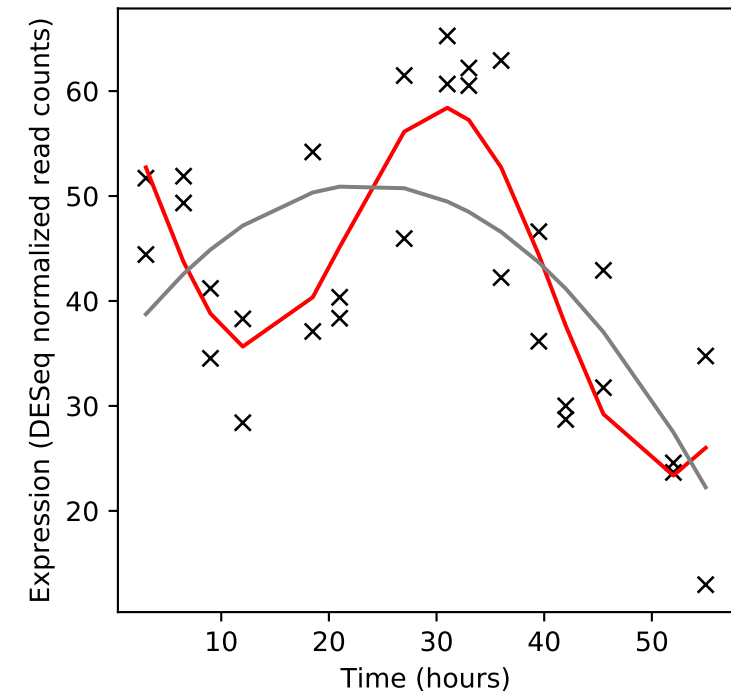
Rv1144/-



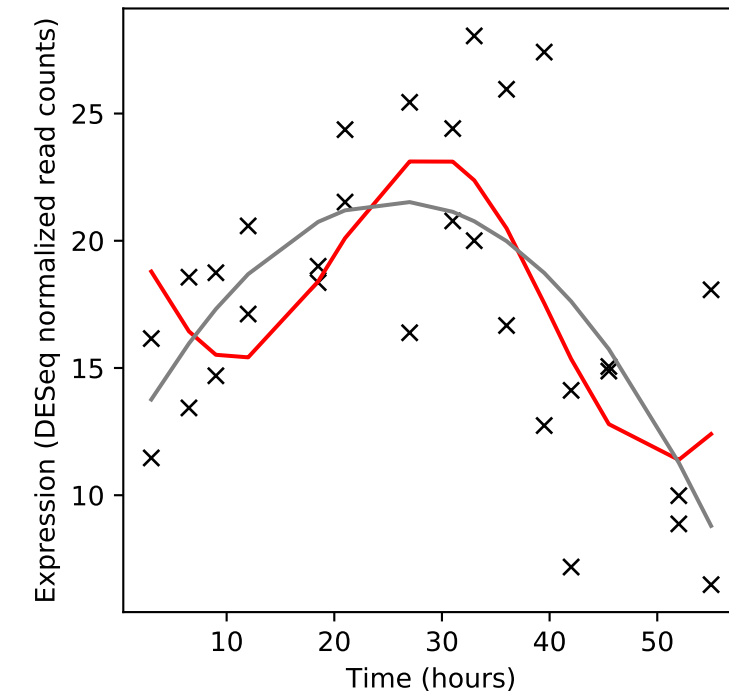
Rv1145/mmpL13a



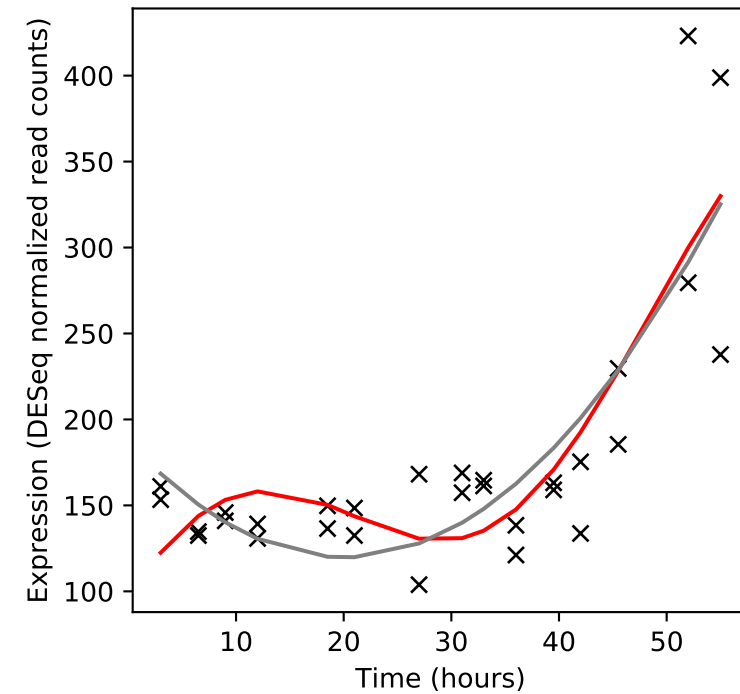
Rv1146/mmpL13b



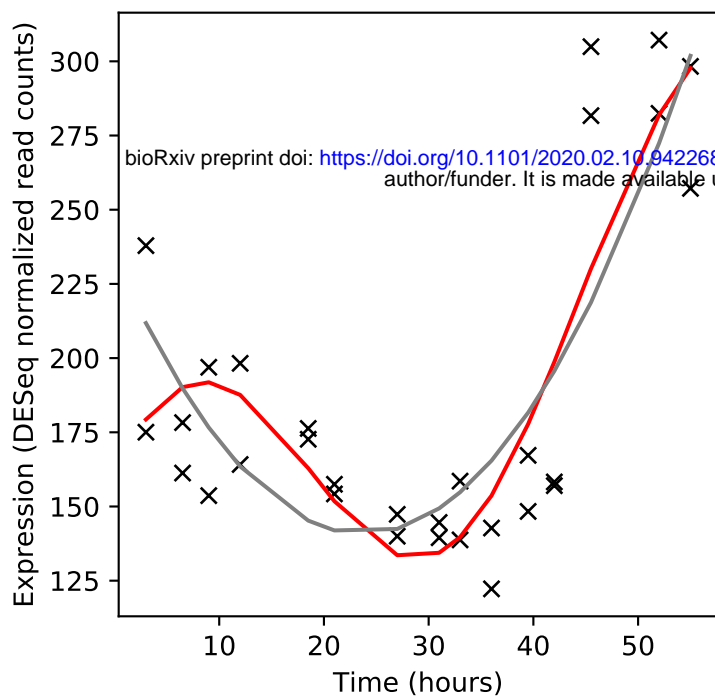
Rv1147/-



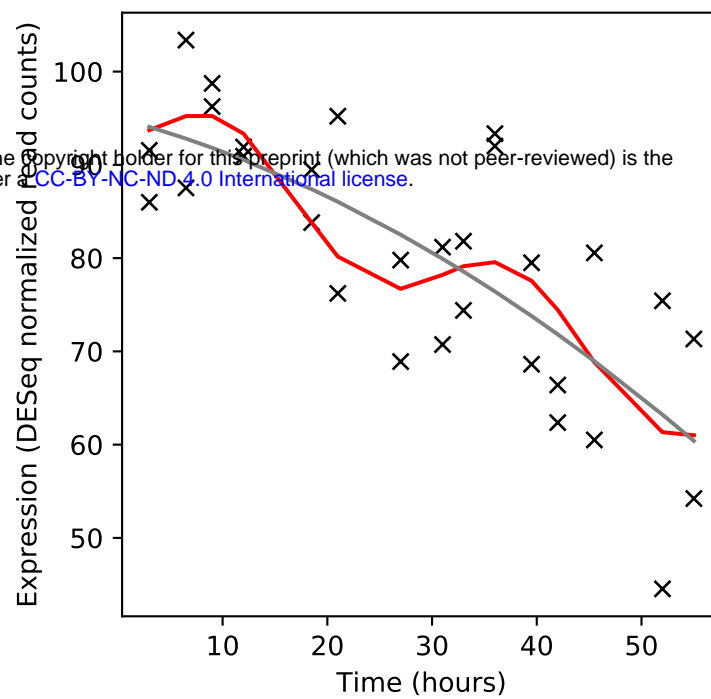
Rv1148c/-



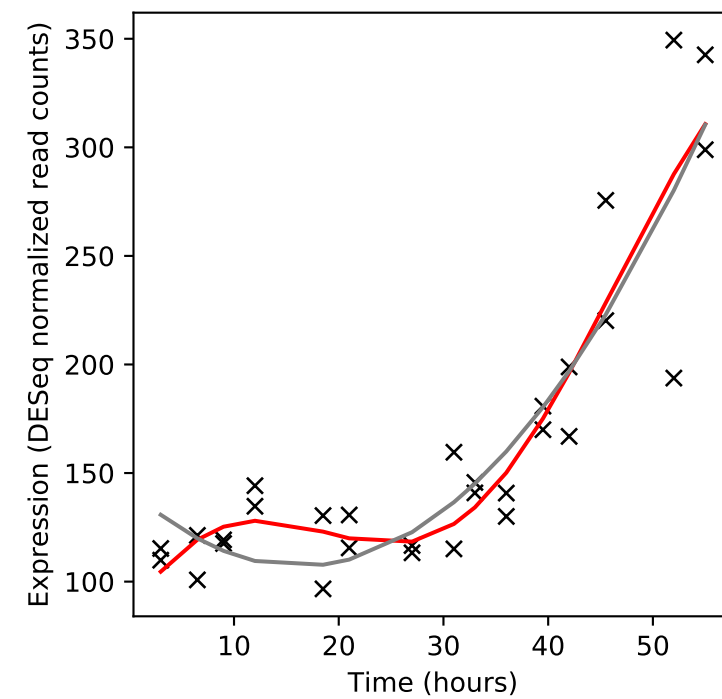
Rv1149/-



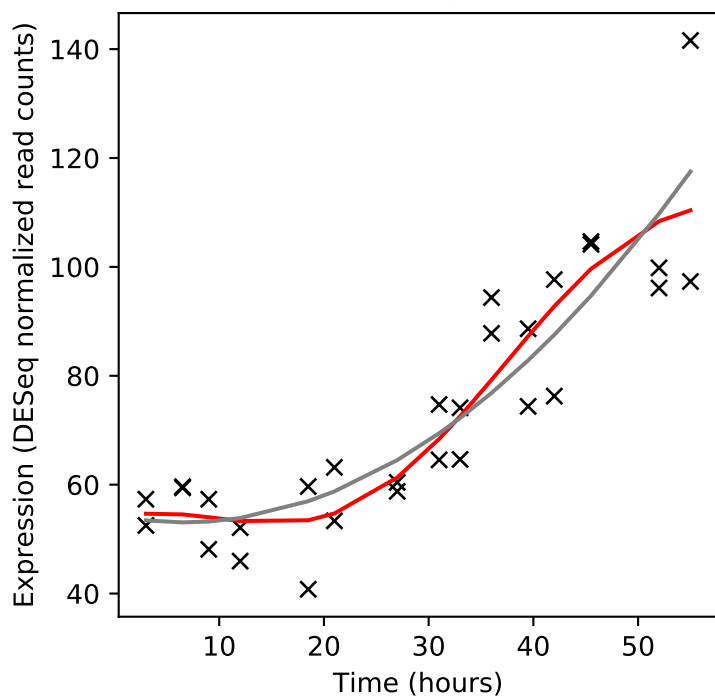
Rv1151c/-



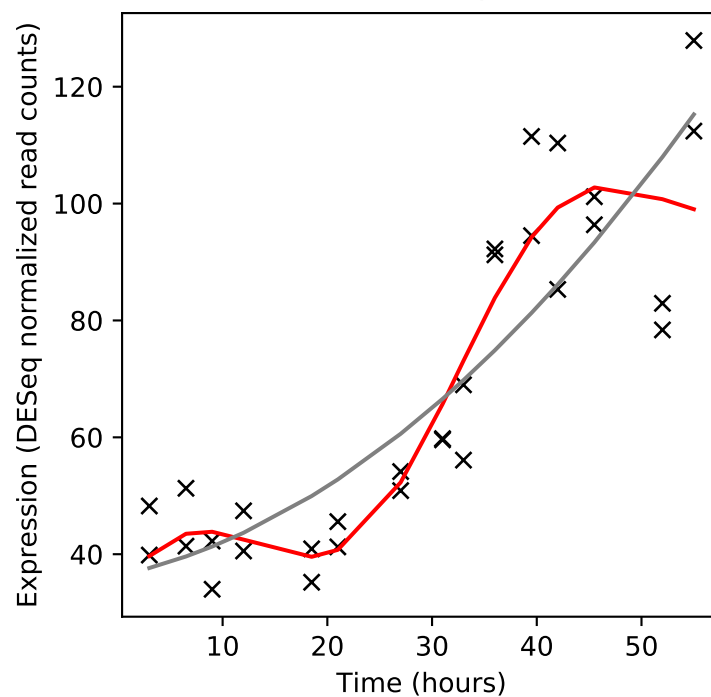
Rv1152/-



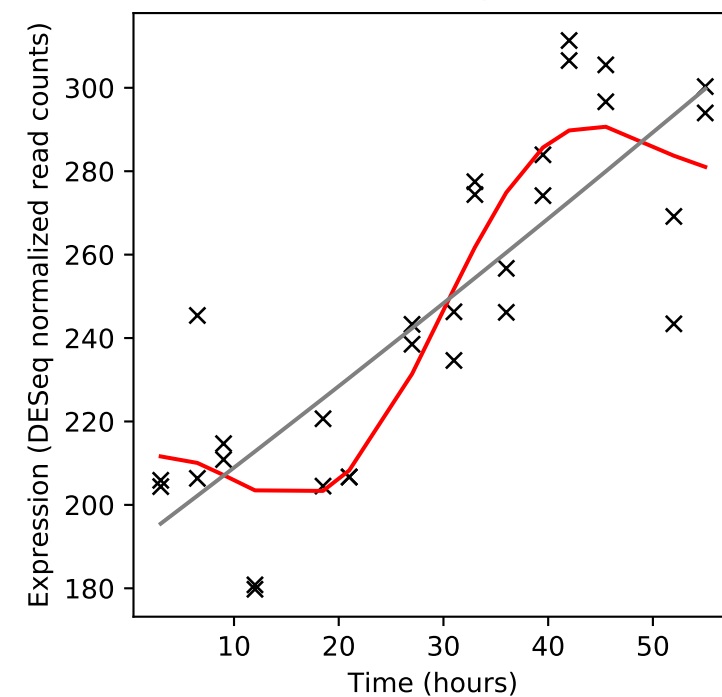
Rv1153c/omt



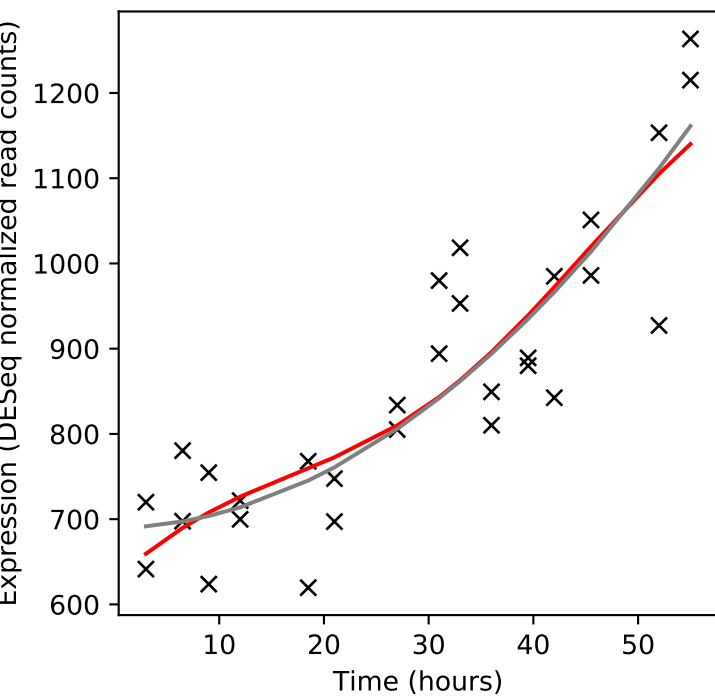
Rv1154c/-



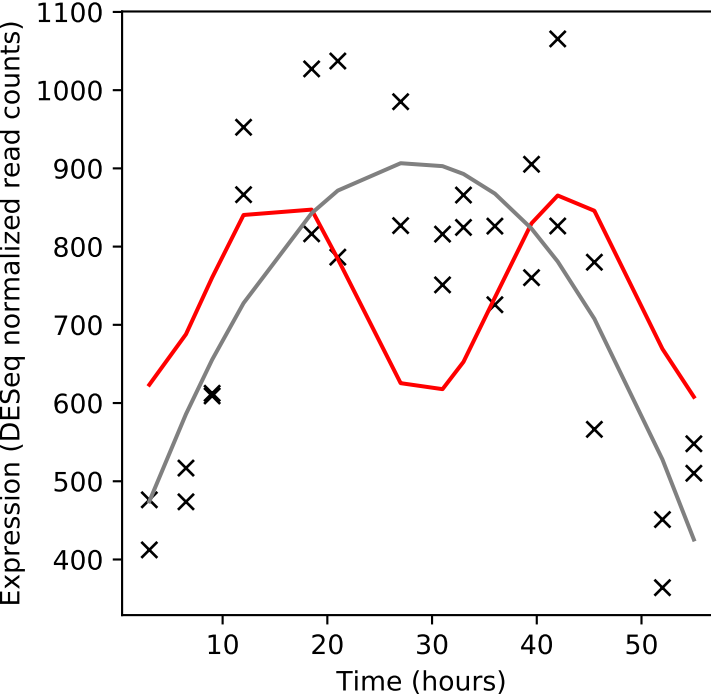
Rv1155/-



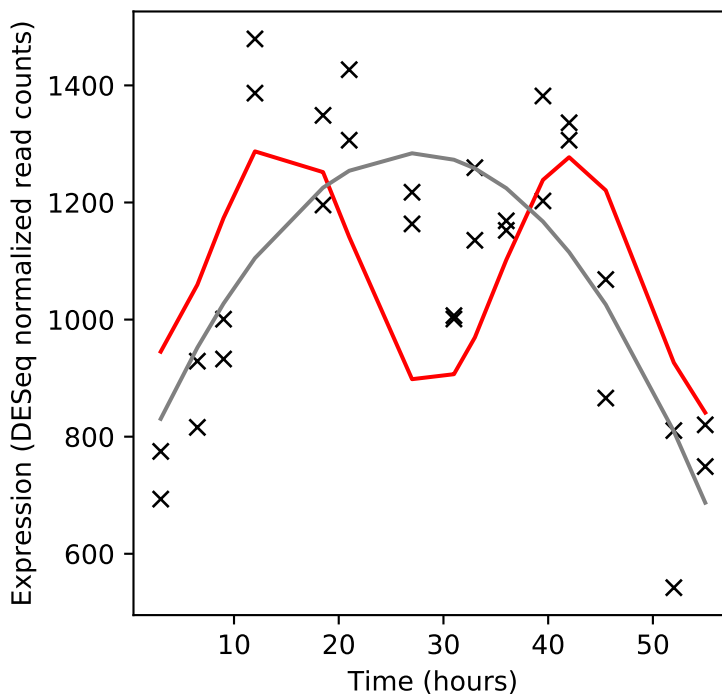
Rv1156/-



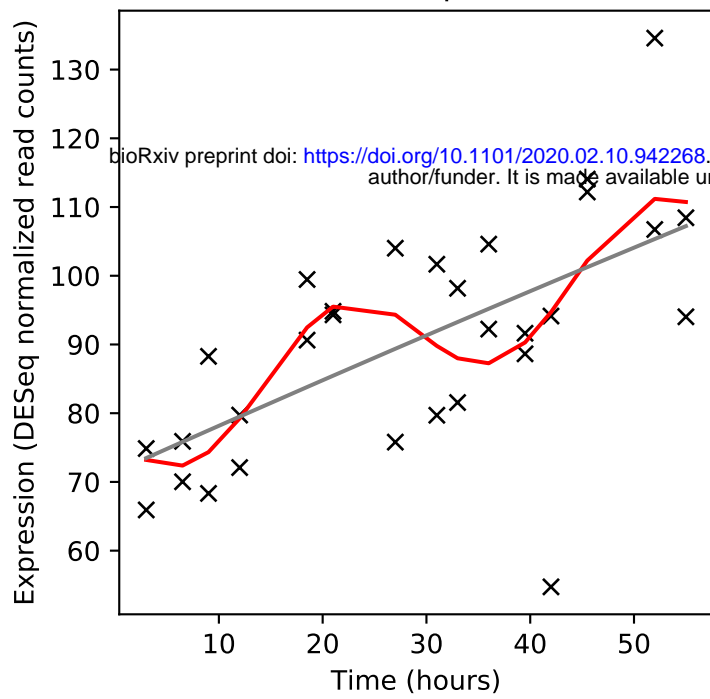
Rv1157c/-



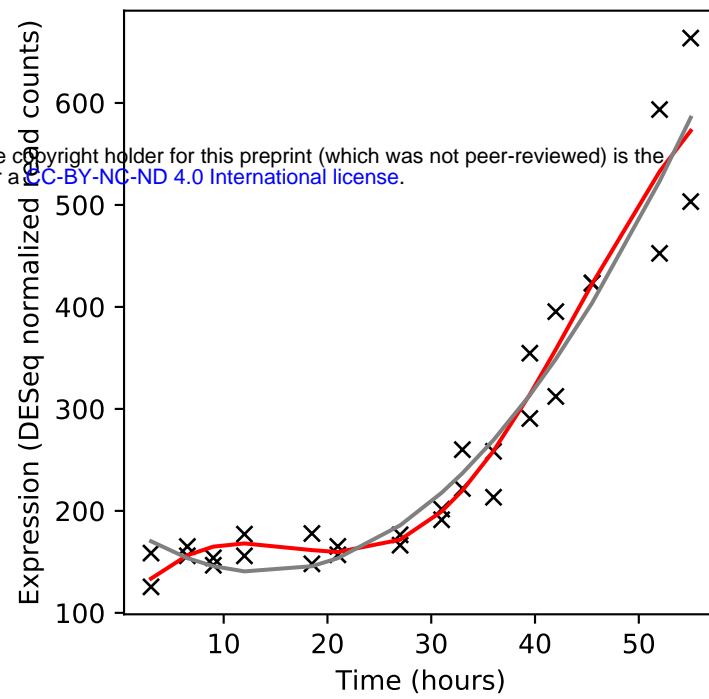
Rv1158c/-



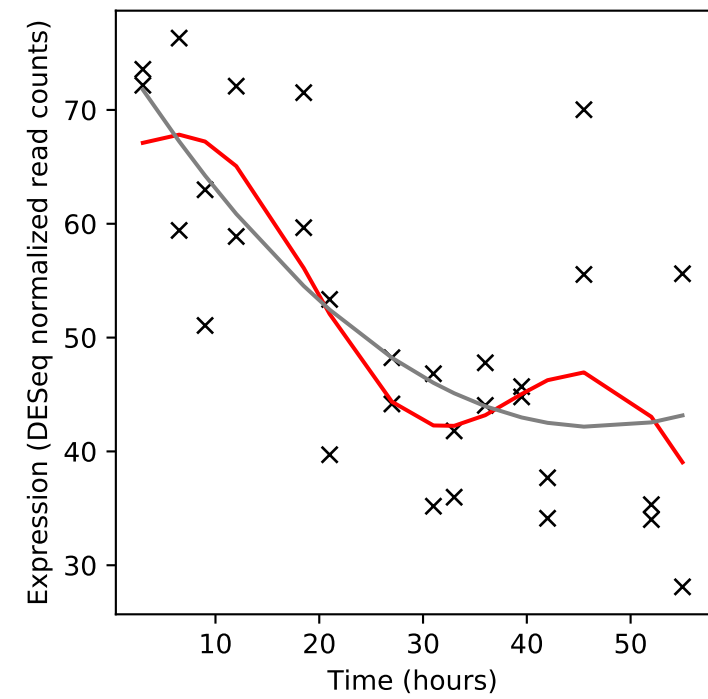
Rv1159/pimE



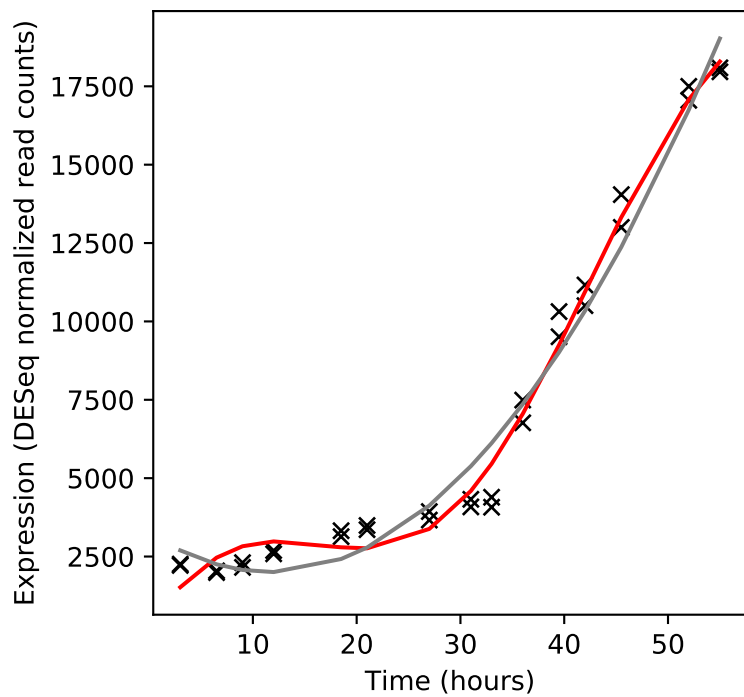
Rv1159A/-



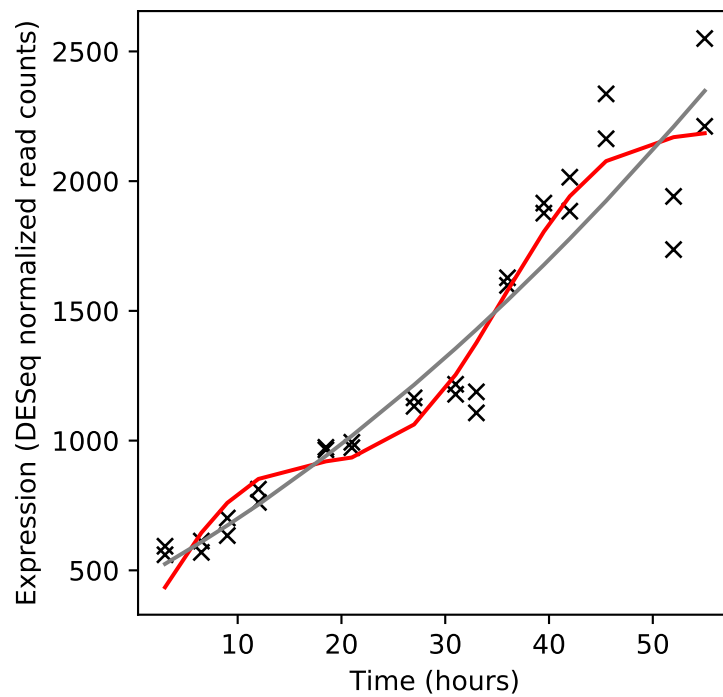
Rv1160/mutT2



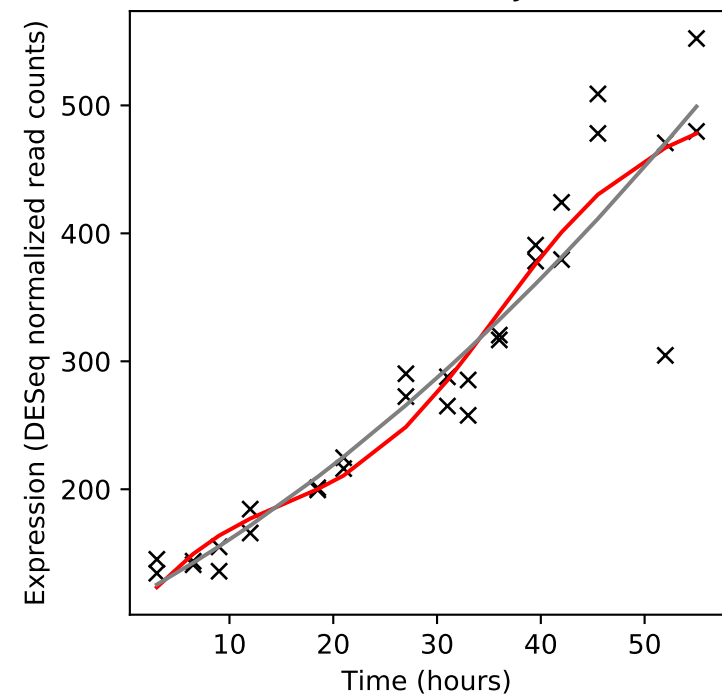
Rv1161/narG



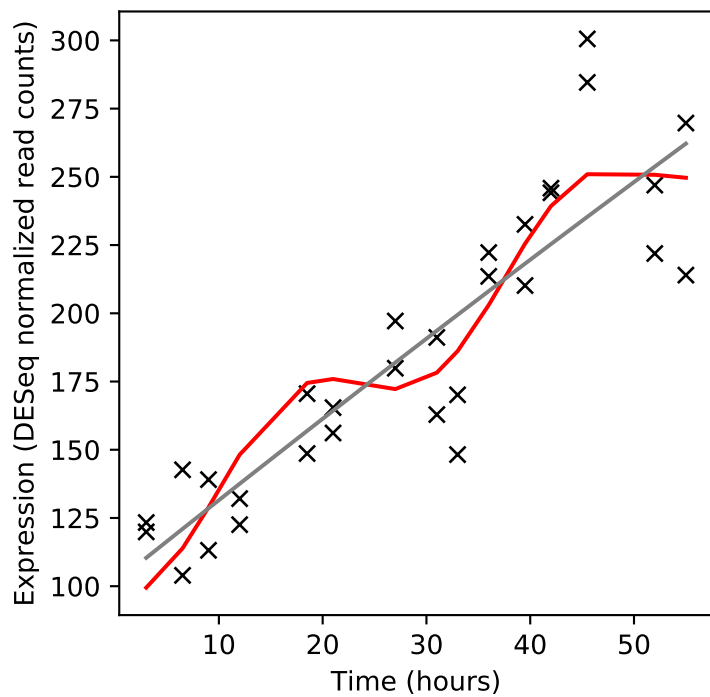
Rv1162/narH



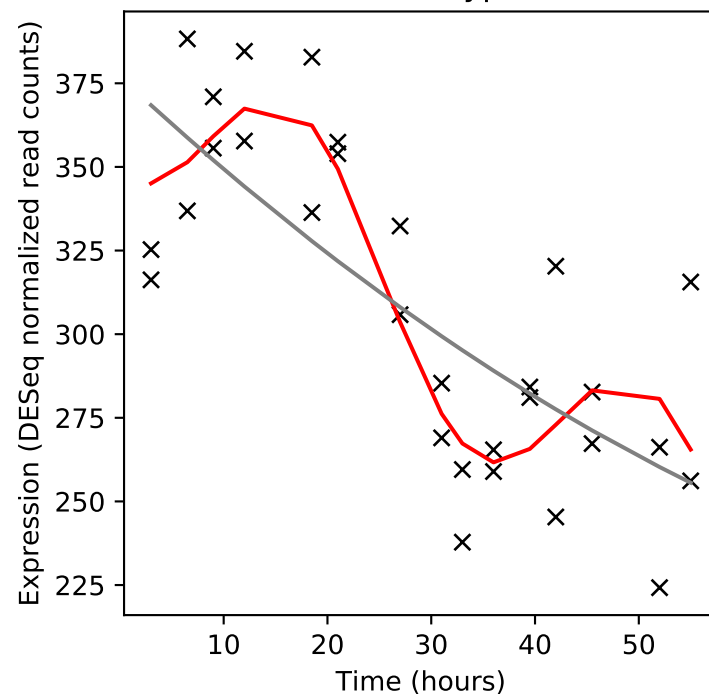
Rv1163/narJ



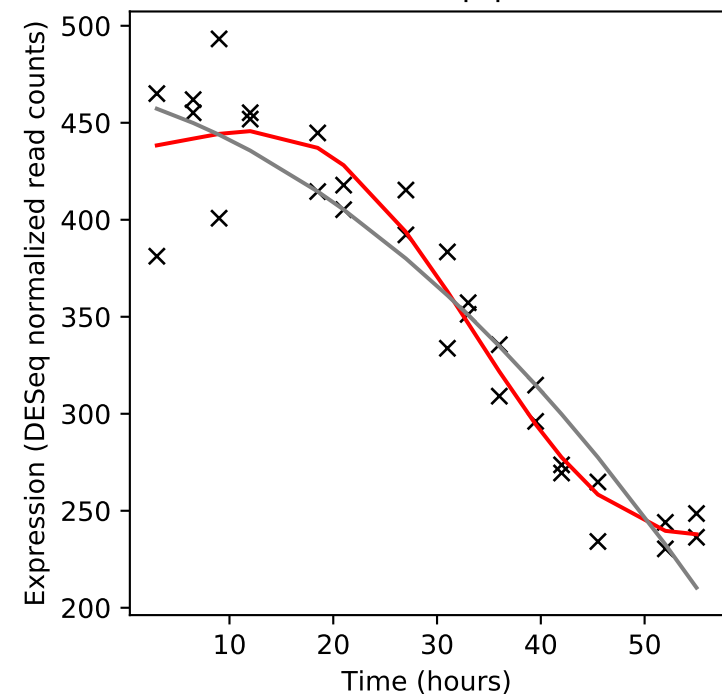
Rv1164/narI



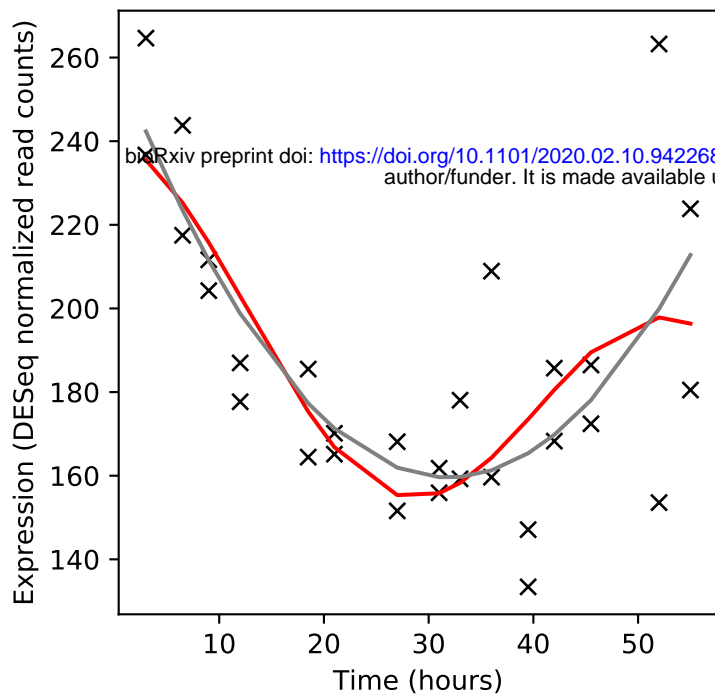
Rv1165/typA



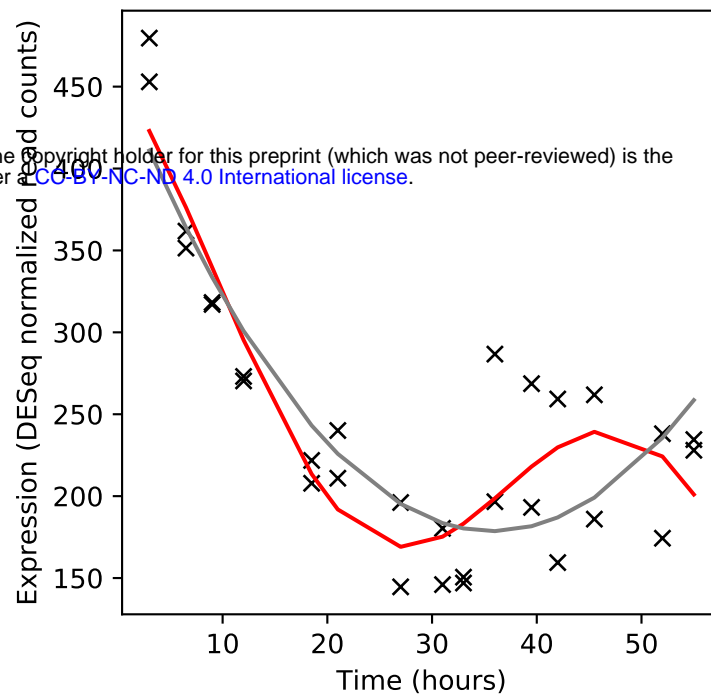
Rv1166/lpqW



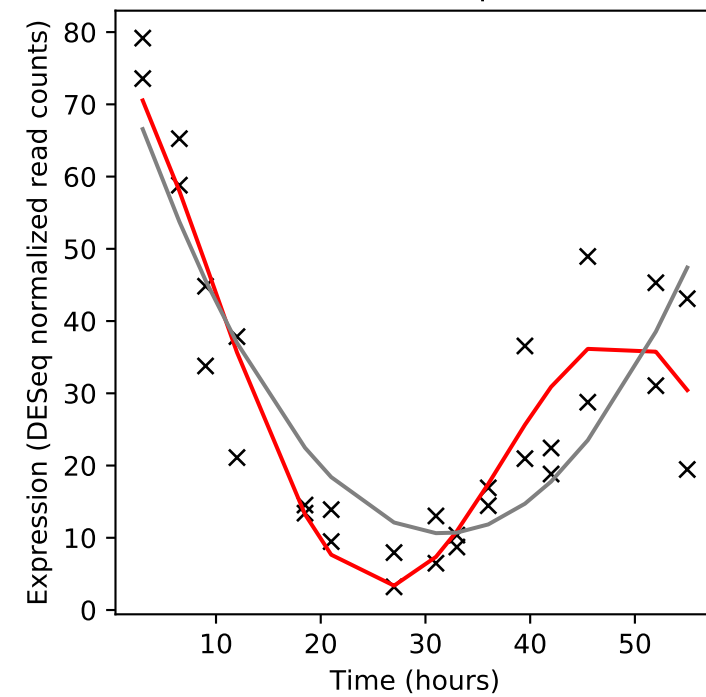
Rv1167c/-



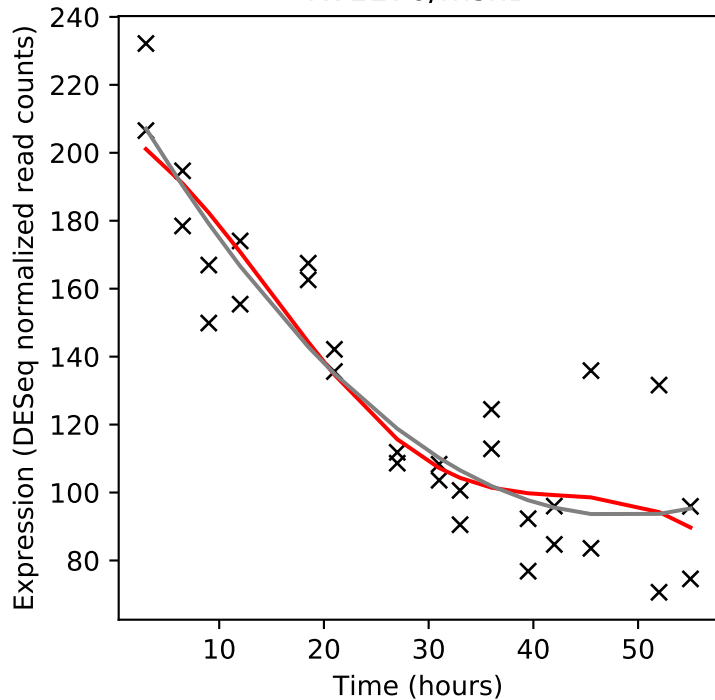
Rv1168c/PPE17



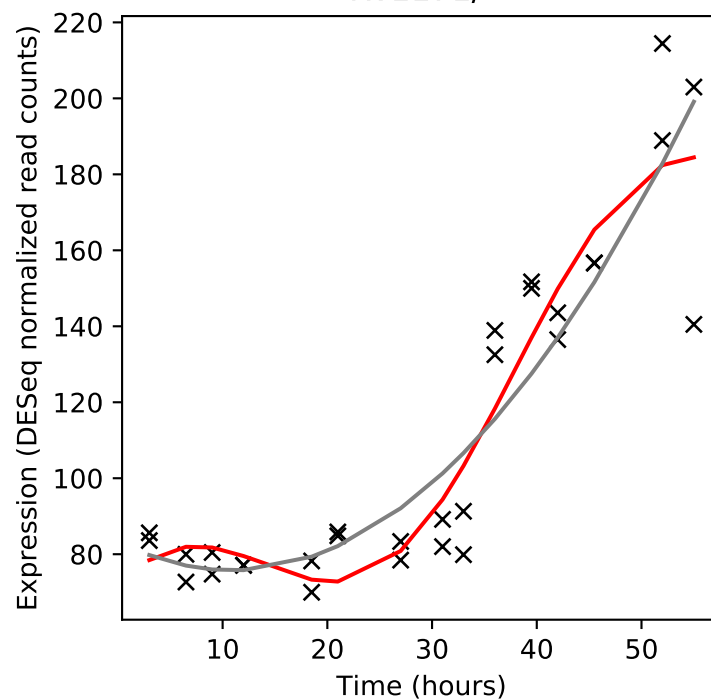
Rv1169c/lipX



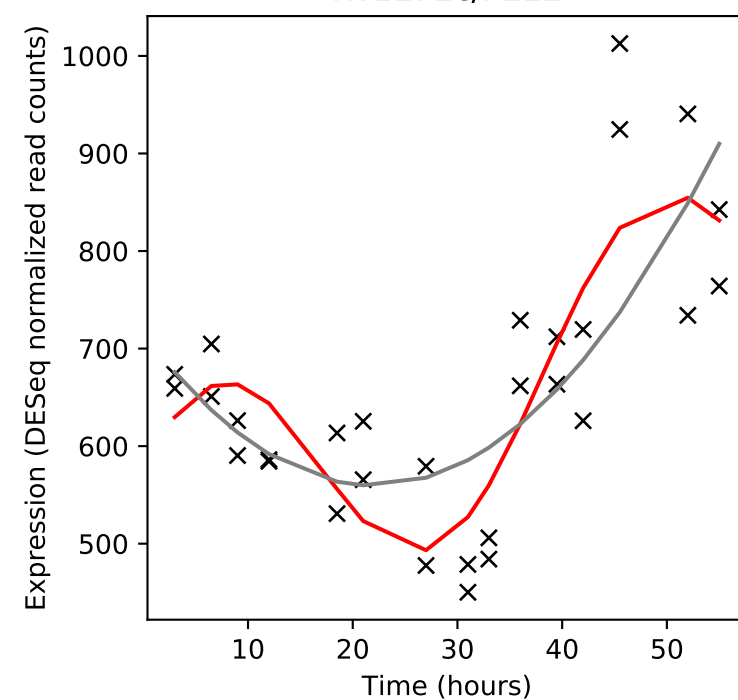
Rv1170/mshB



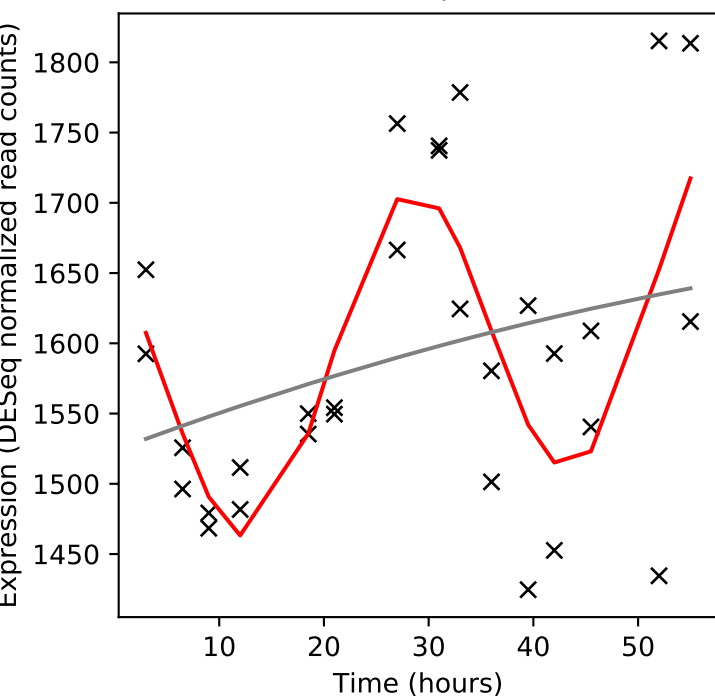
Rv1171/-



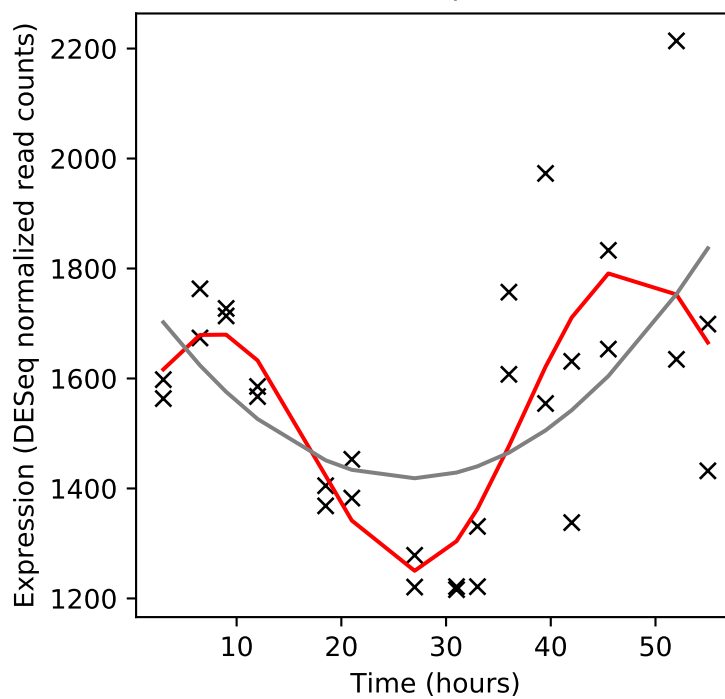
Rv1172c/PE12



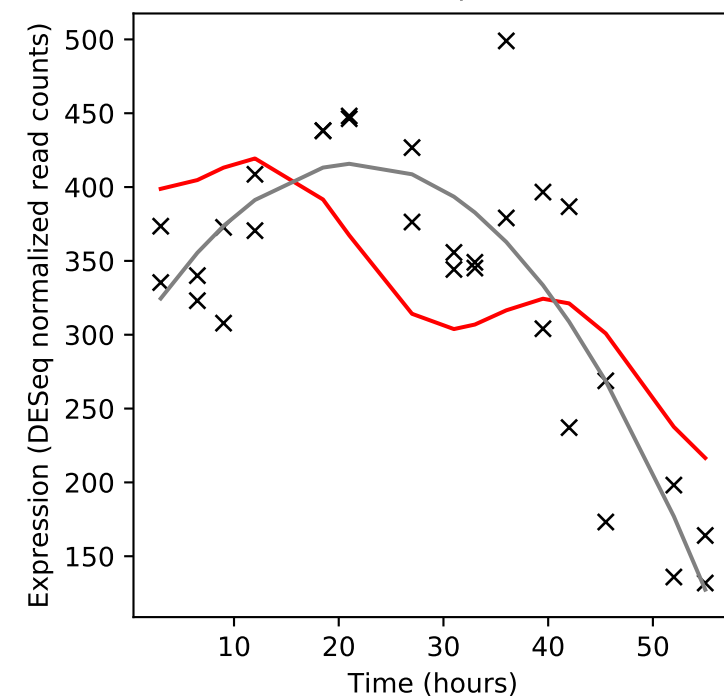
Rv1173/fbiC



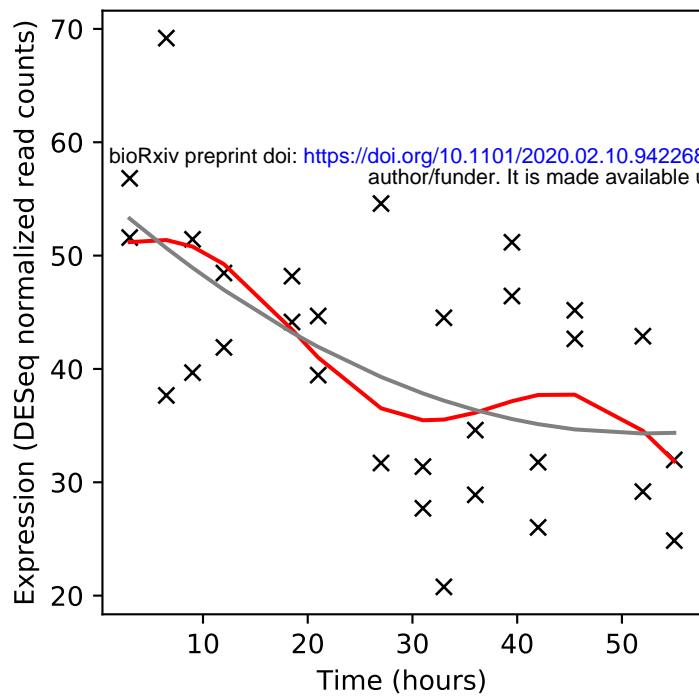
Rv1174c/TB8.4



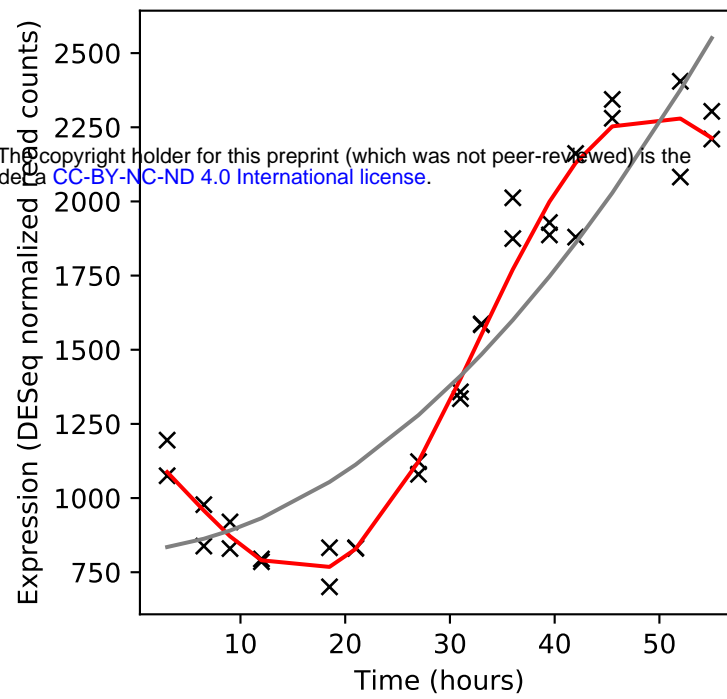
Rv1175c/fadH



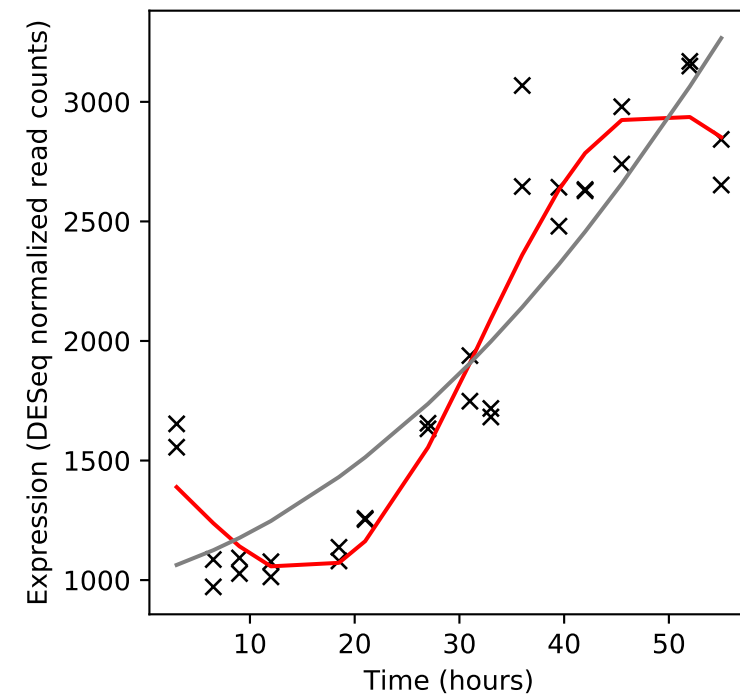
Rv1176c/-



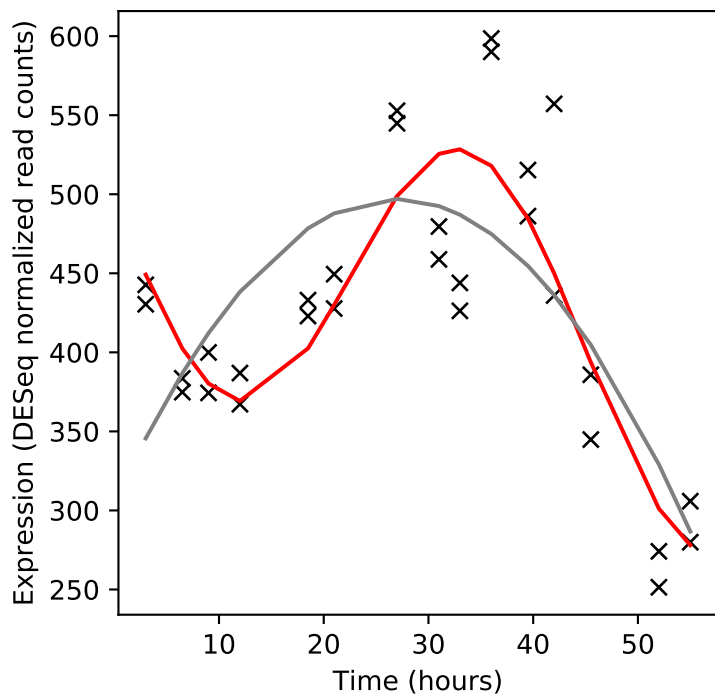
Rv1177/fdxC



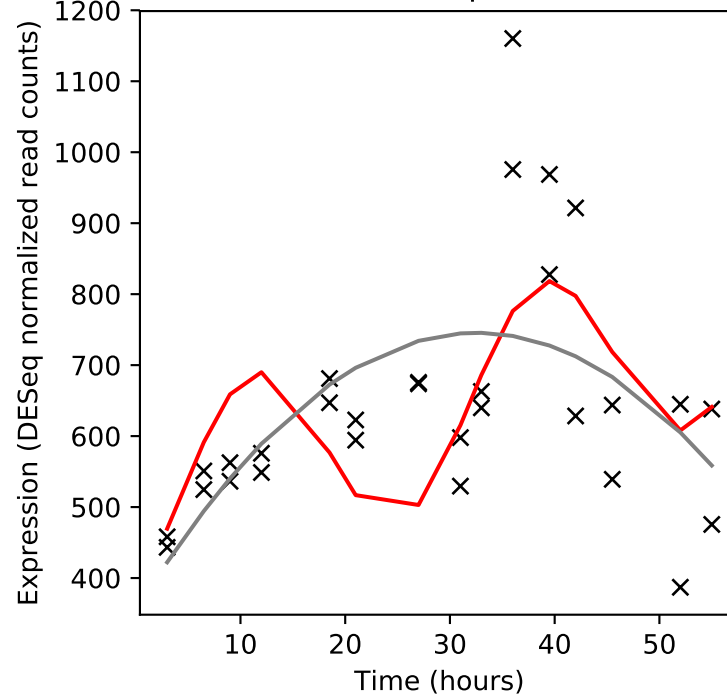
Rv1178/-



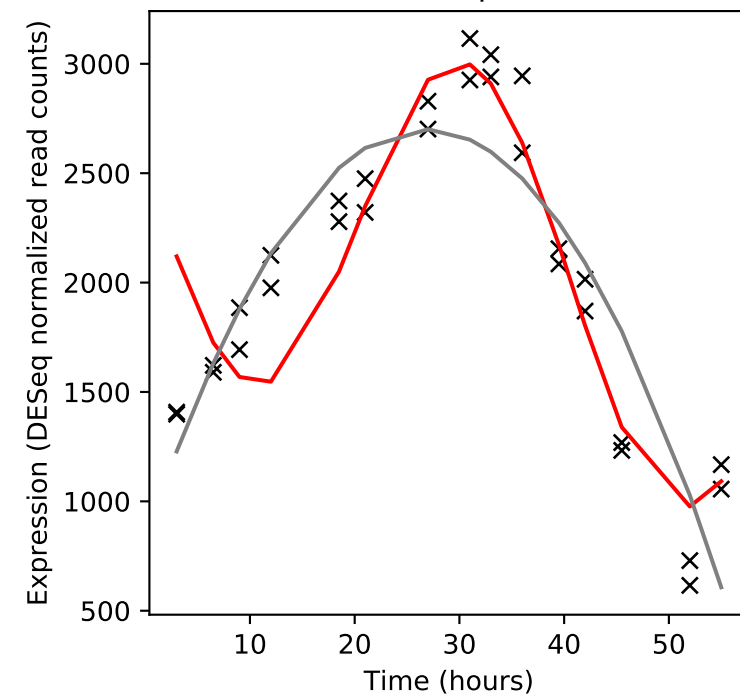
Rv1179c/-



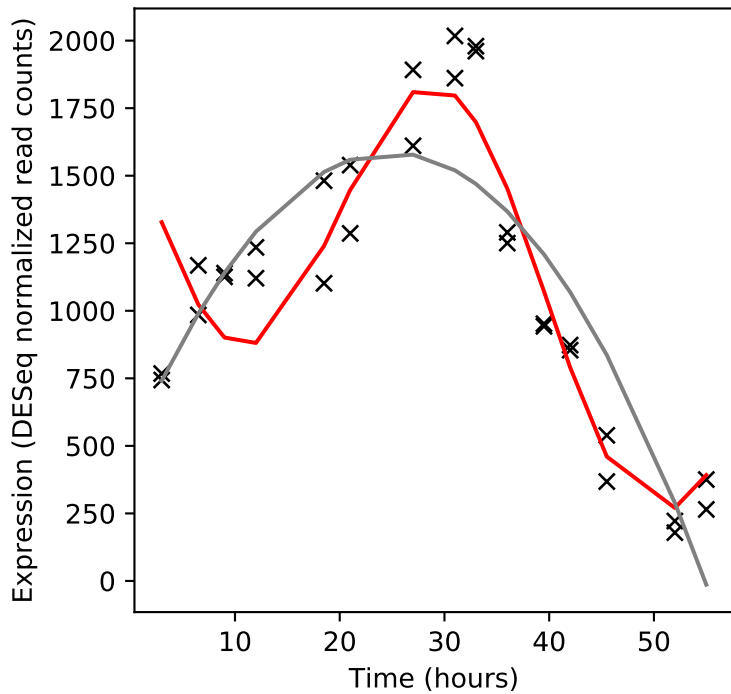
Rv1180/pks3



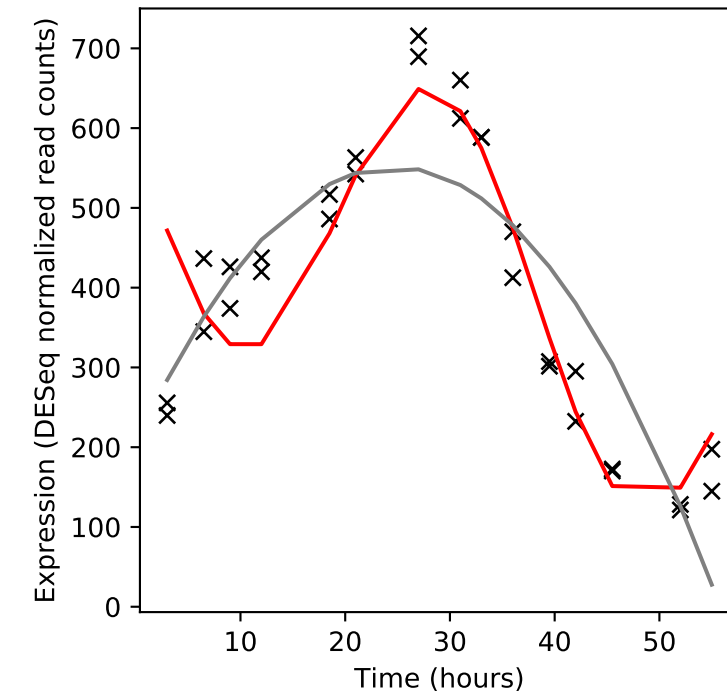
Rv1181/pks4



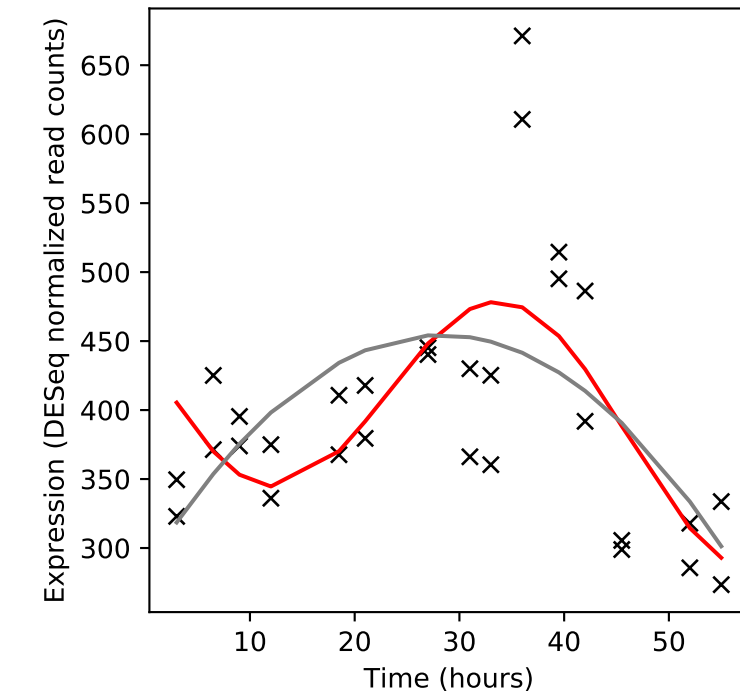
Rv1182/papA3



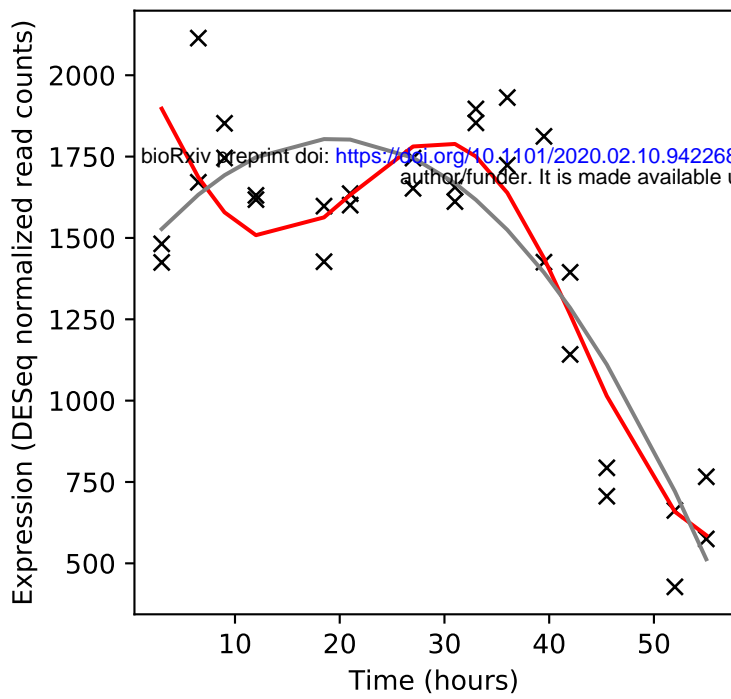
Rv1183/mmpL10



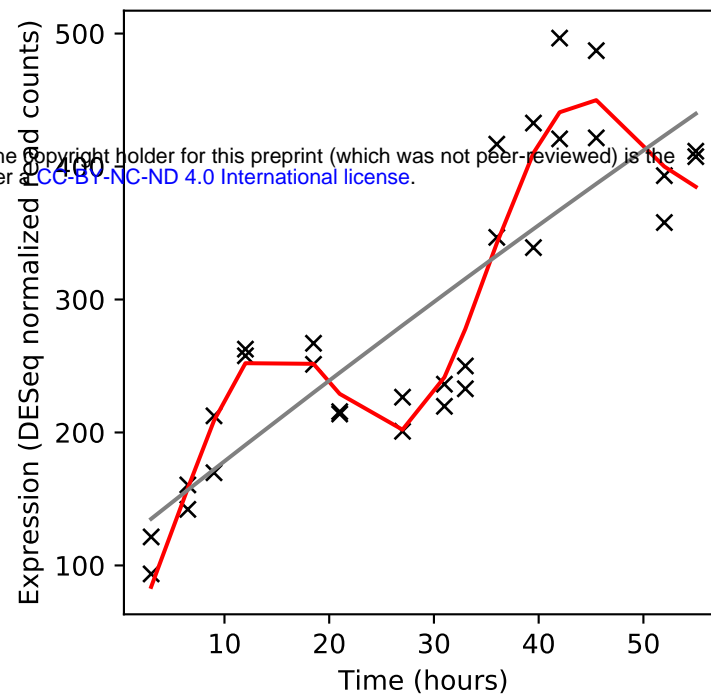
Rv1184c/-



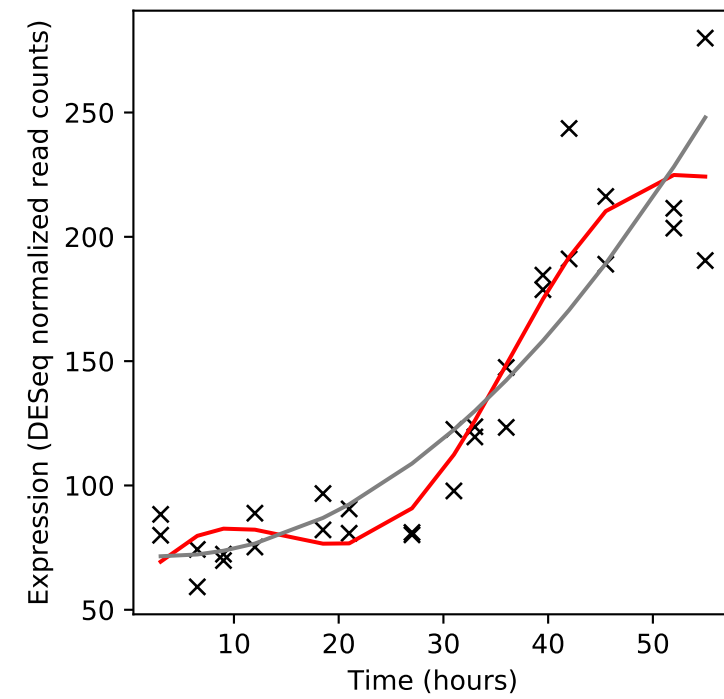
Rv1185c/fadD21



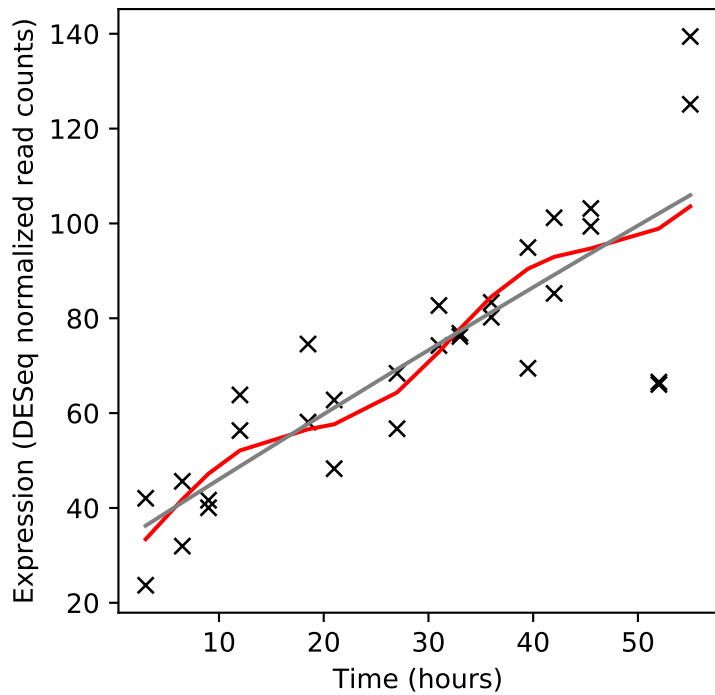
Rv1186c/-



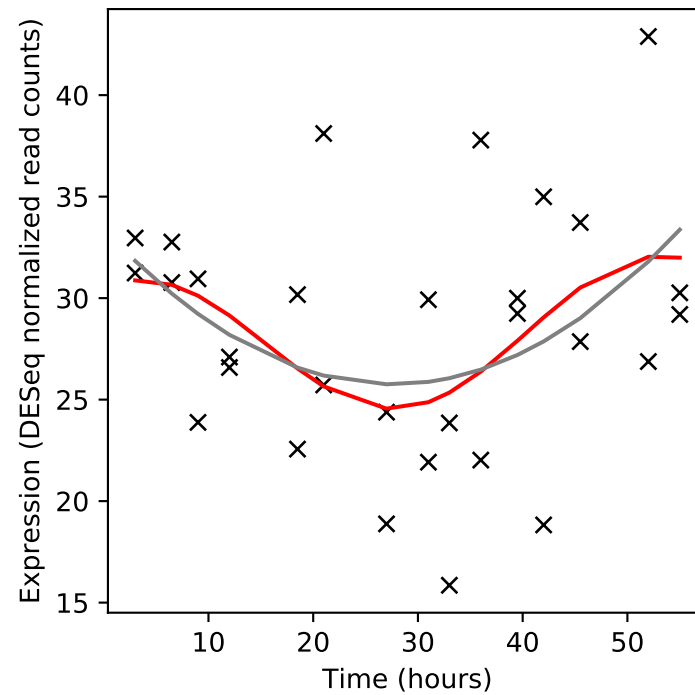
Rv1187/rocA



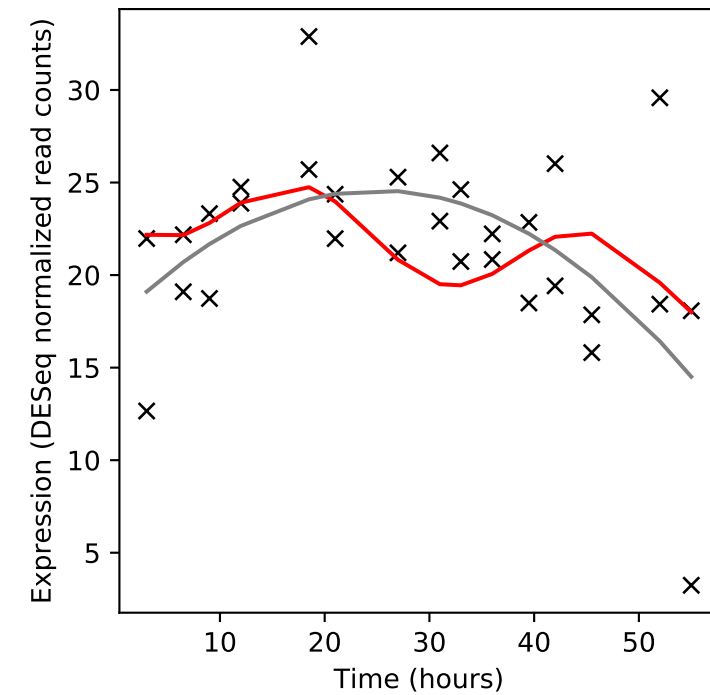
Rv1188/-



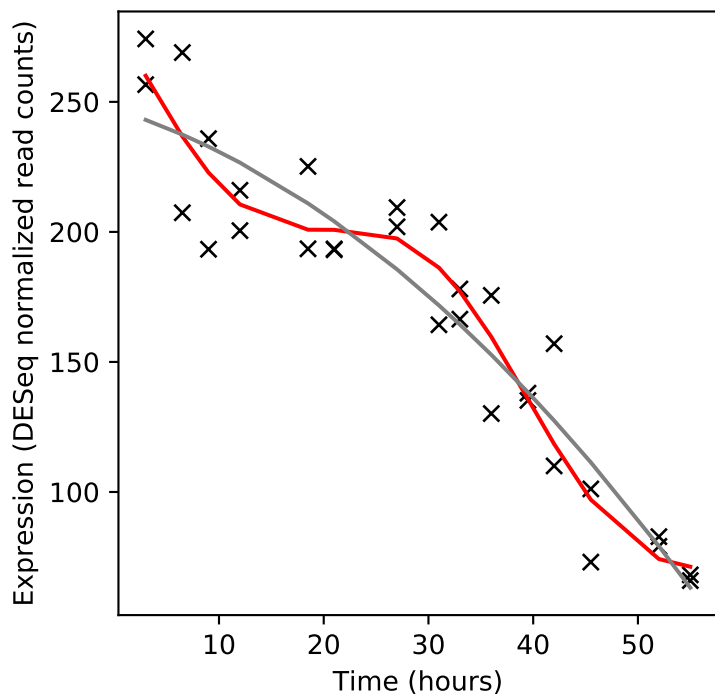
Rv1189/sigl



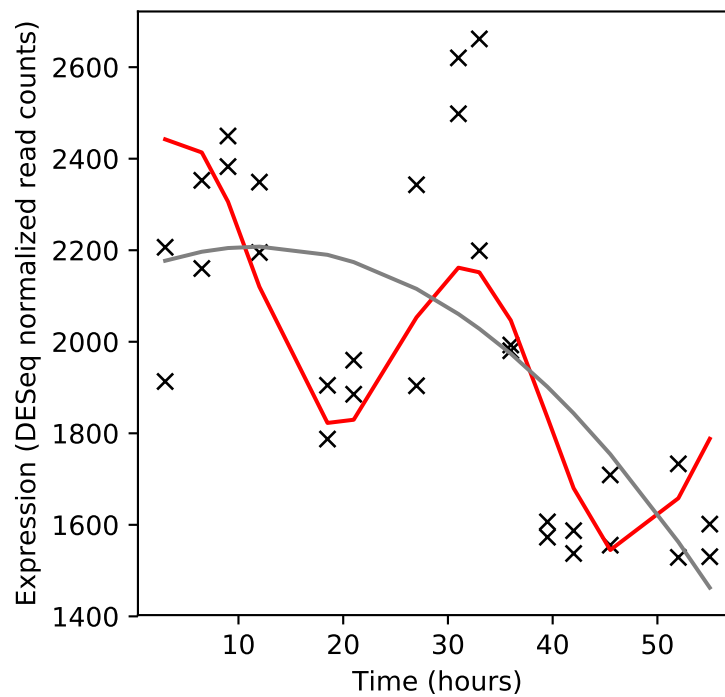
Rv1190/-



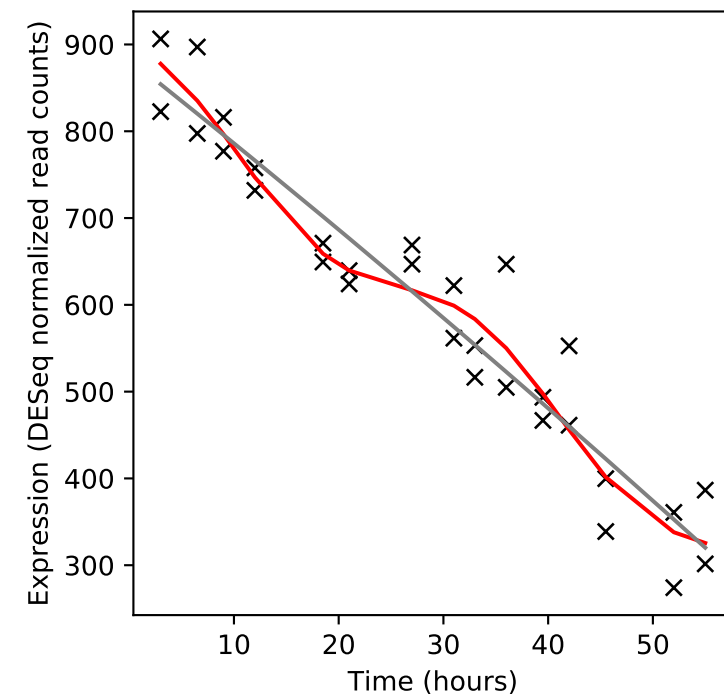
Rv1191/-



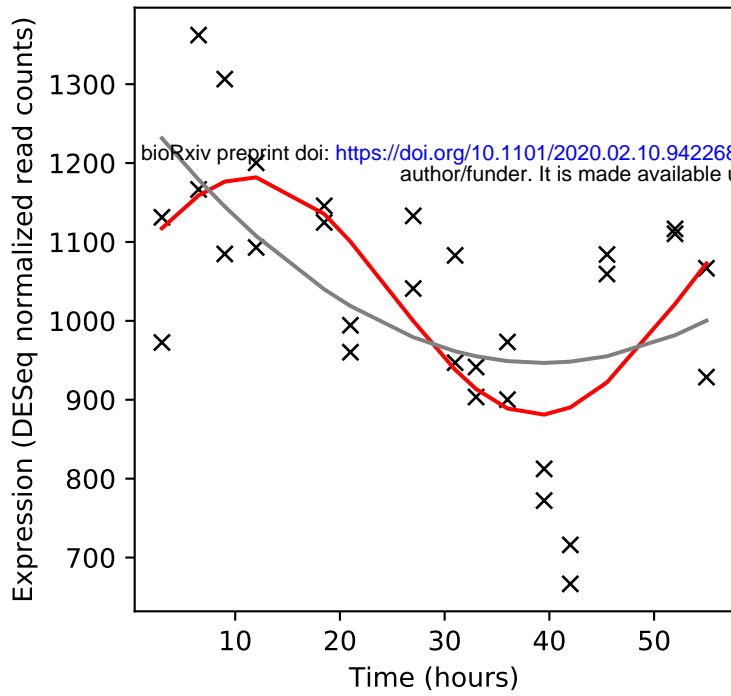
Rv1192/-



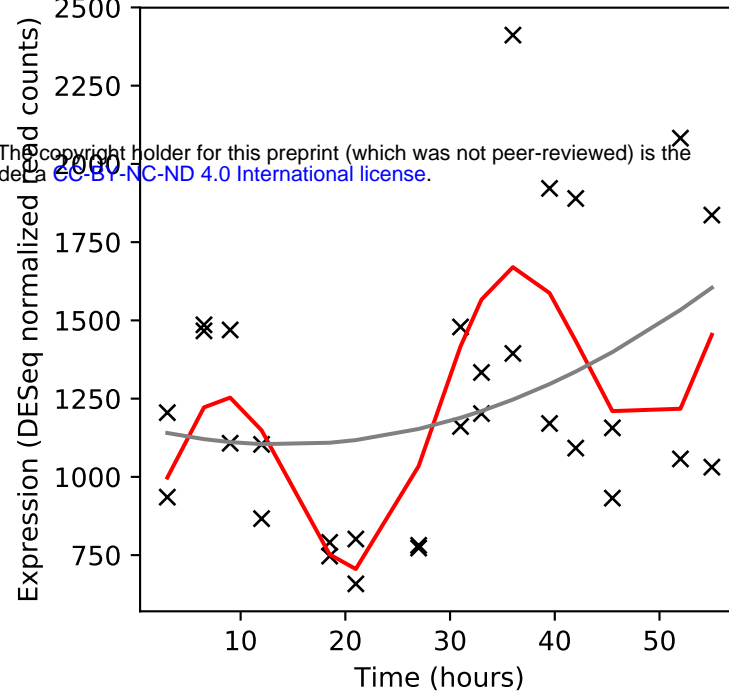
Rv1193/fadD36



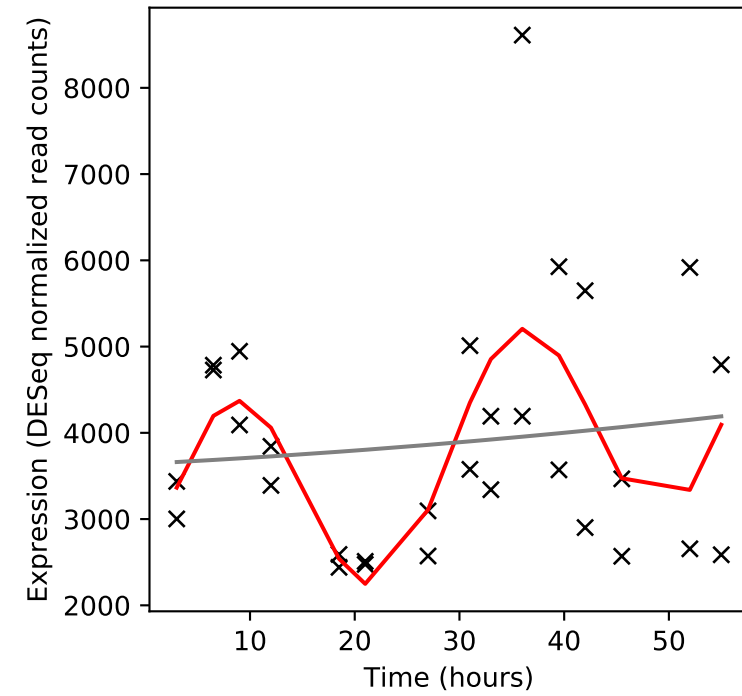
Rv1194c/-



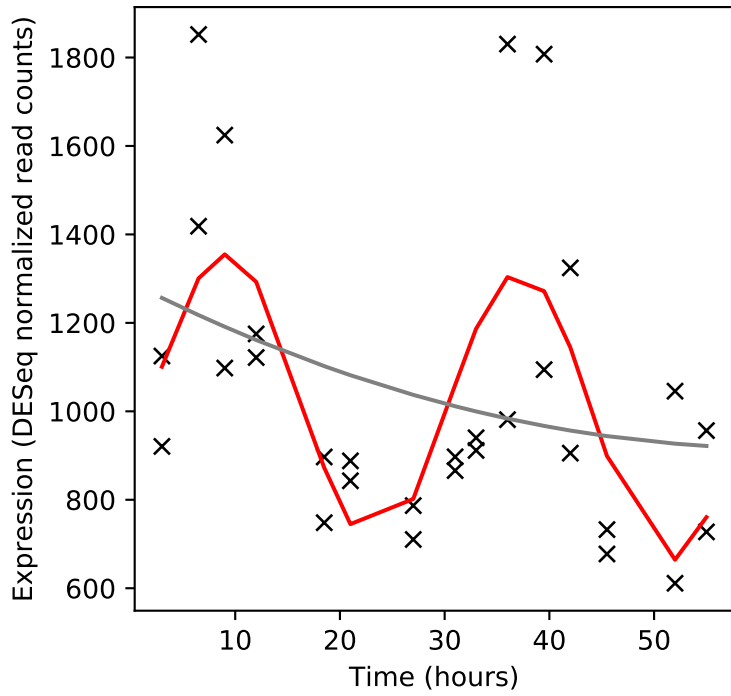
Rv1195/PE13



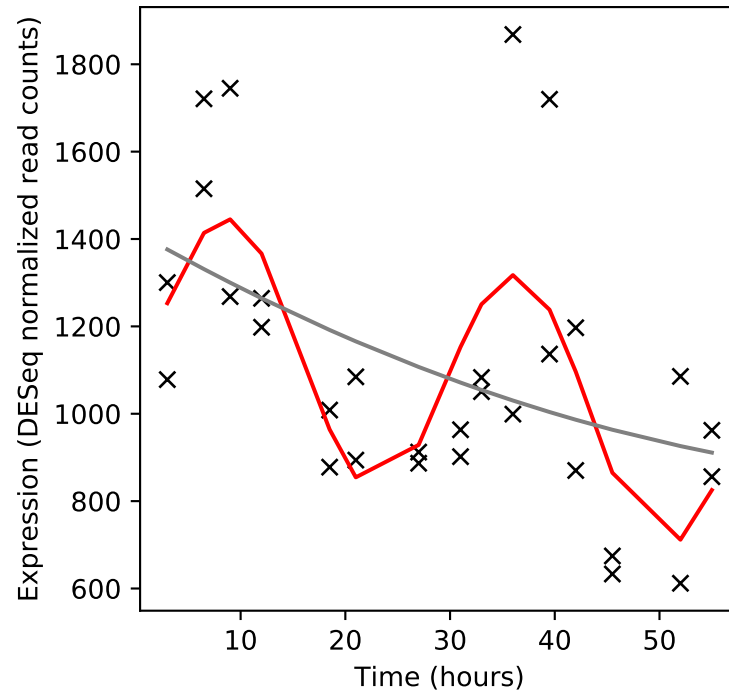
Rv1196/PPE18



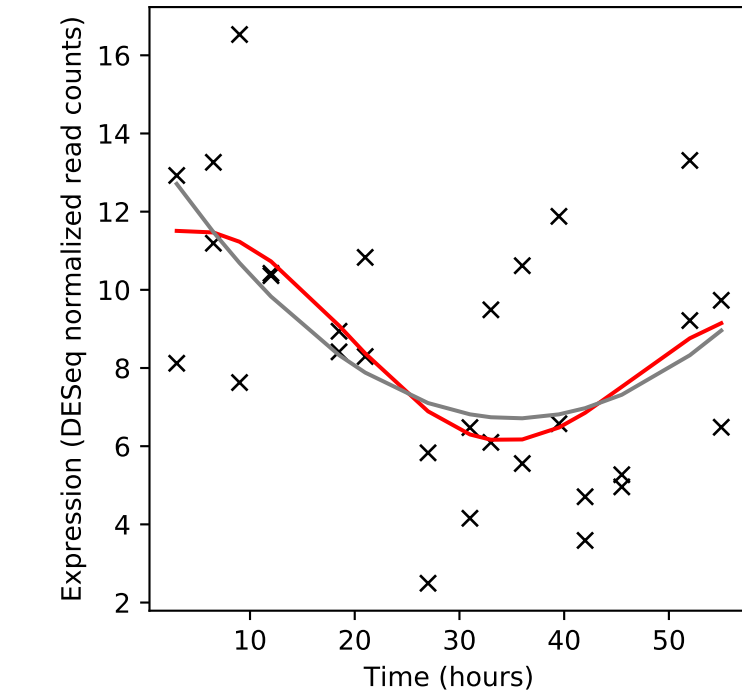
Rv1197/esxK



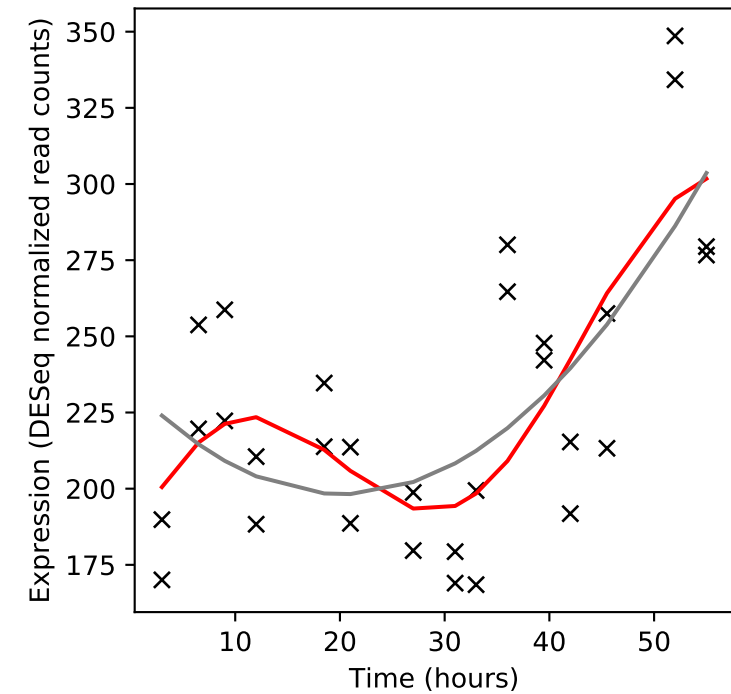
Rv1198/esxL



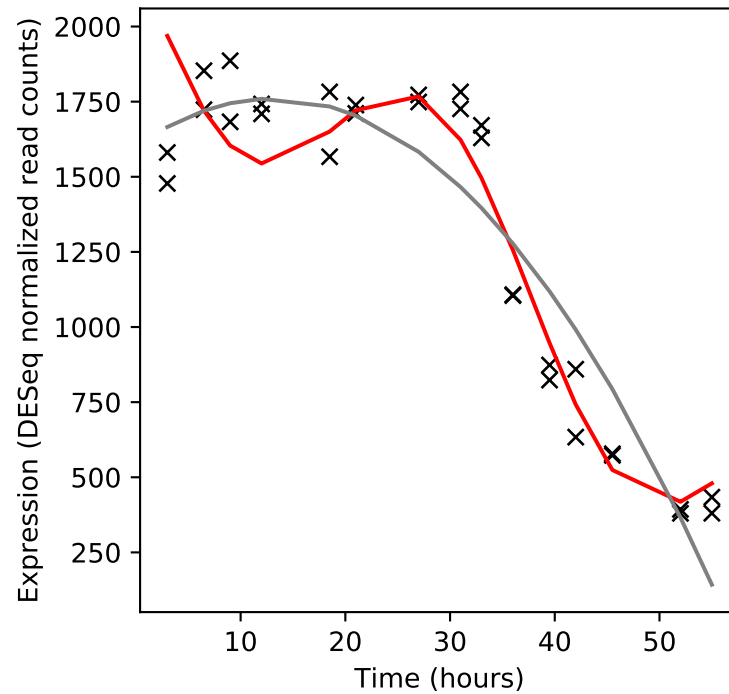
Rv1199c/-



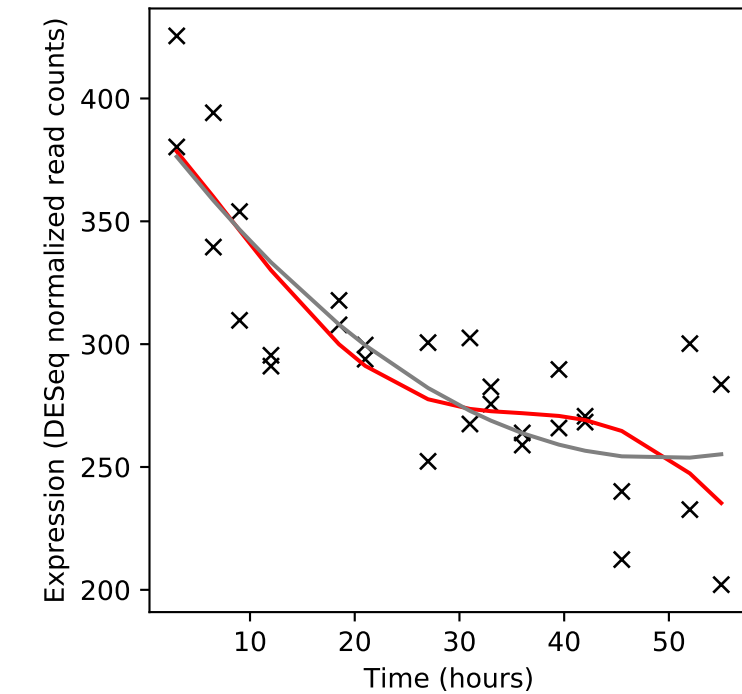
Rv1200/-



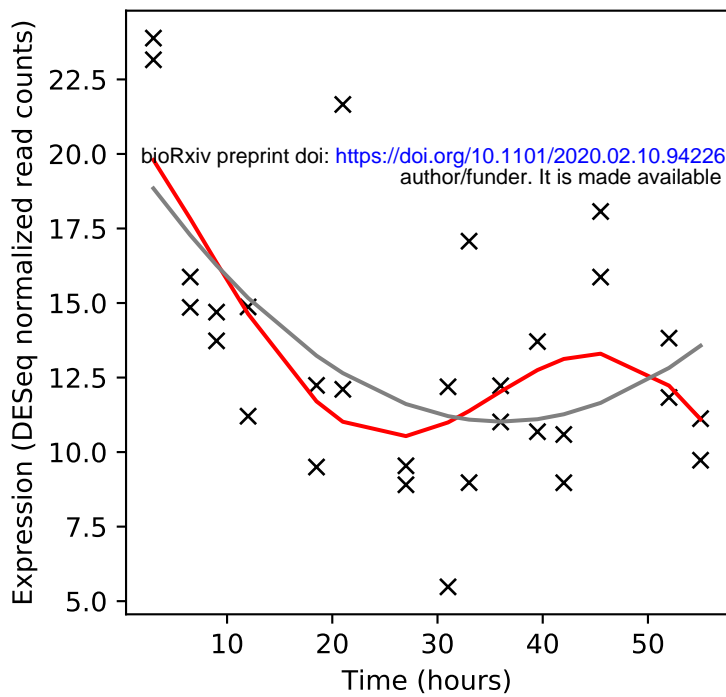
Rv1201c/dapD



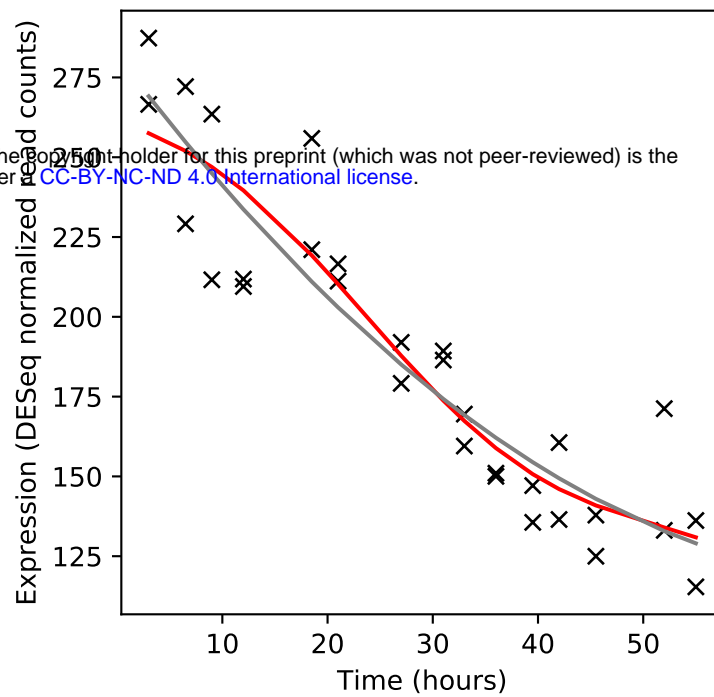
Rv1202/dapE



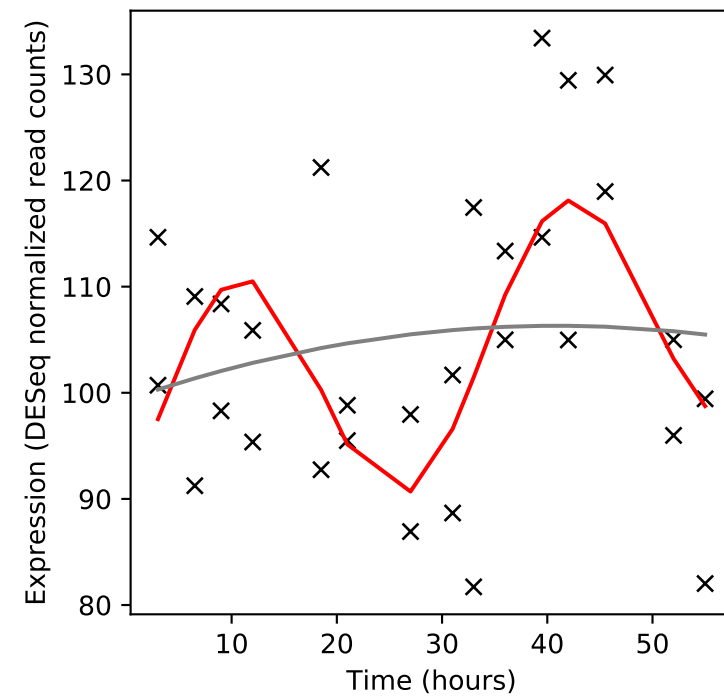
Rv1203c/-



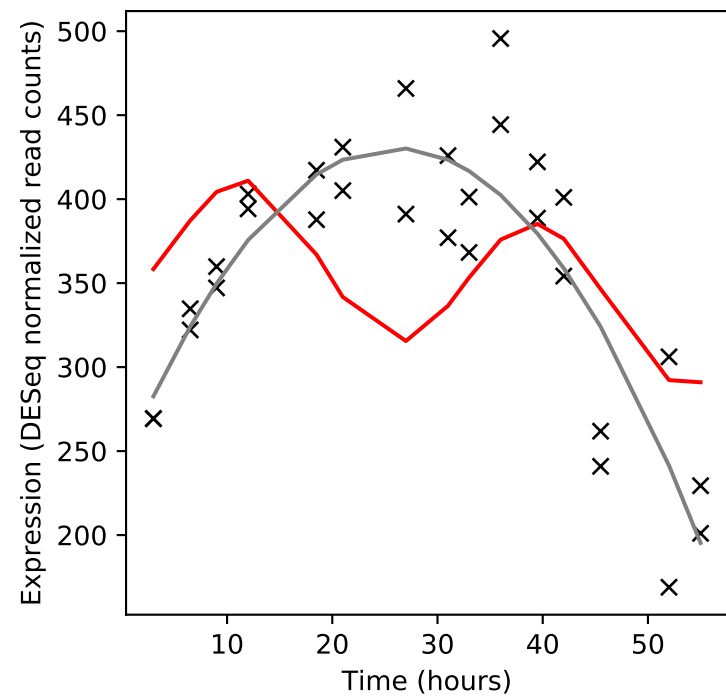
Rv1204c/-



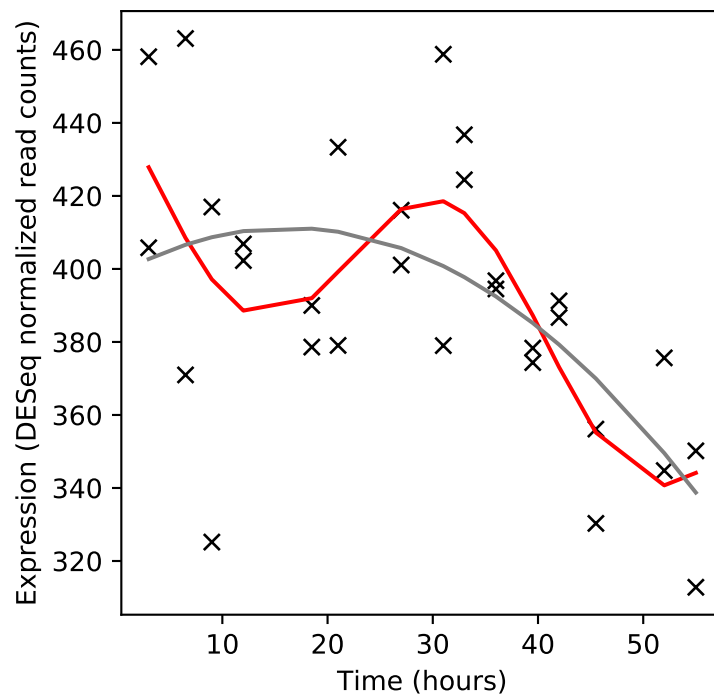
Rv1205/-



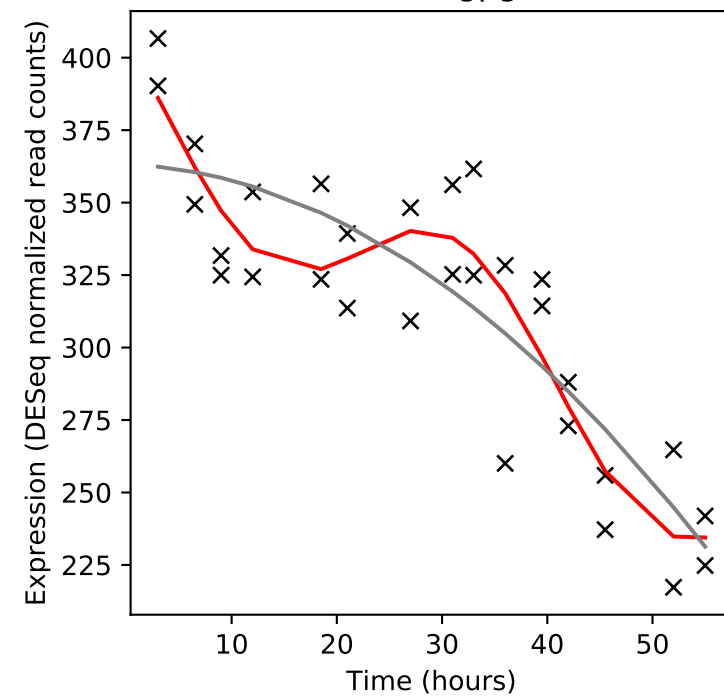
Rv1206/fadD6



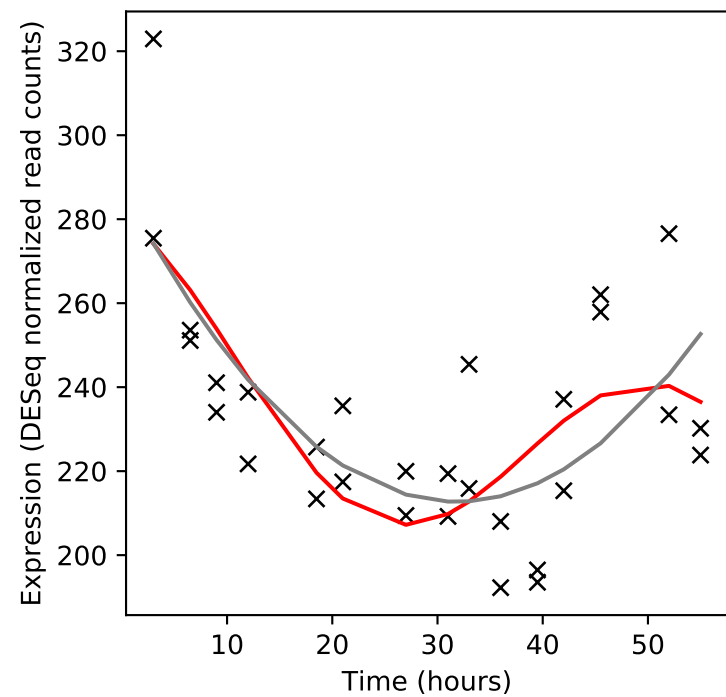
Rv1207/foIP2



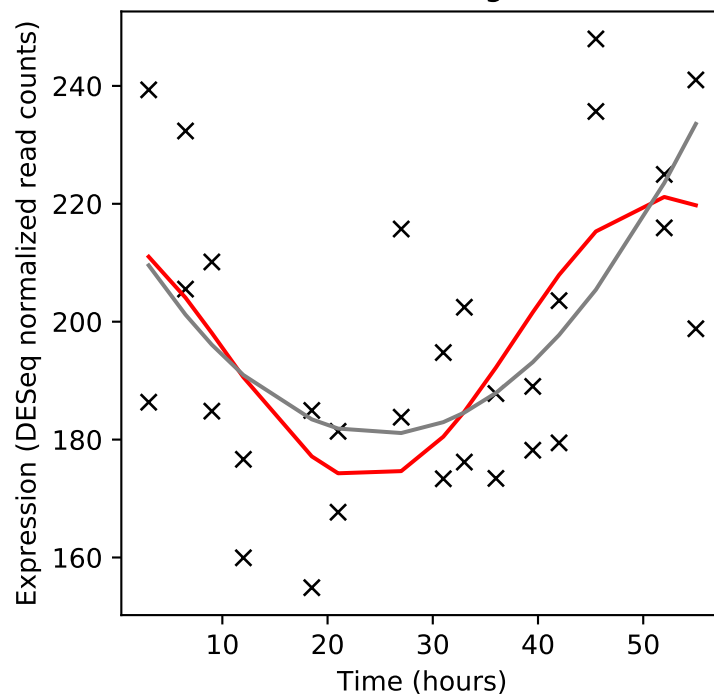
Rv1208/gpgS



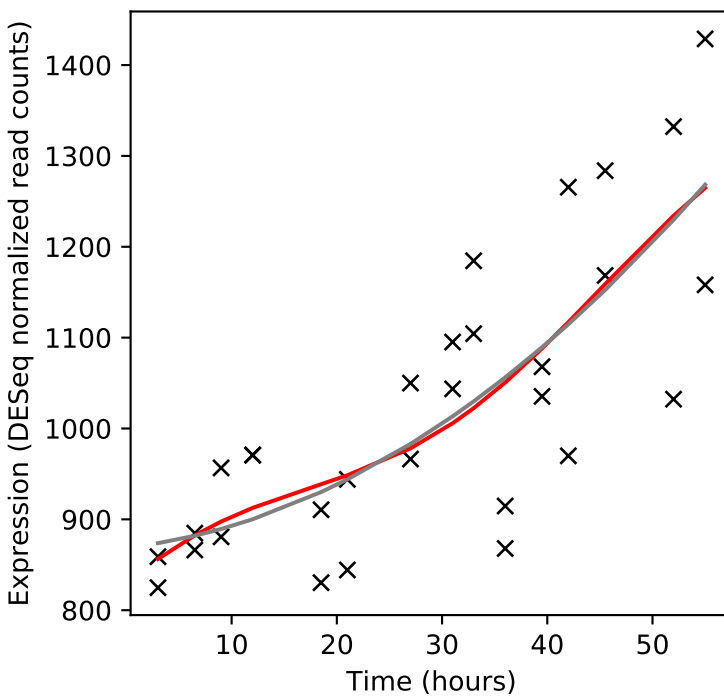
Rv1209/-



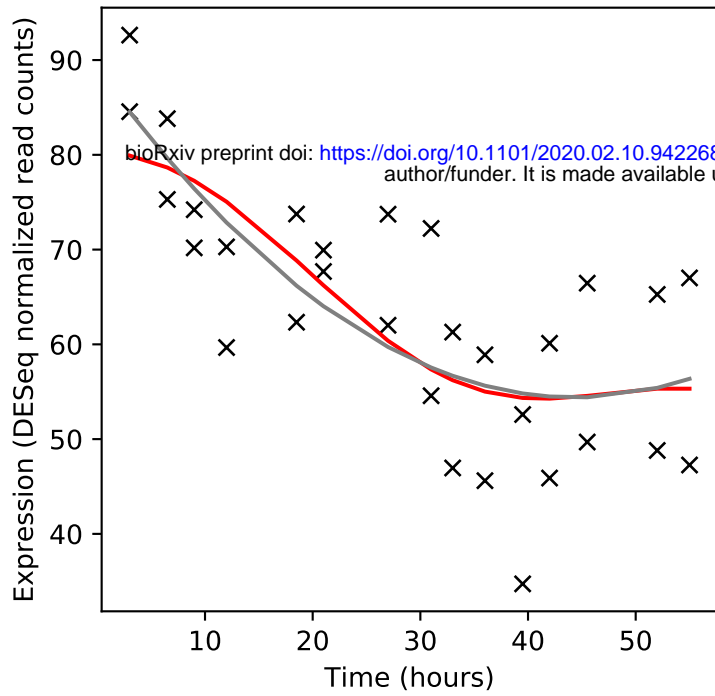
Rv1210/tagA



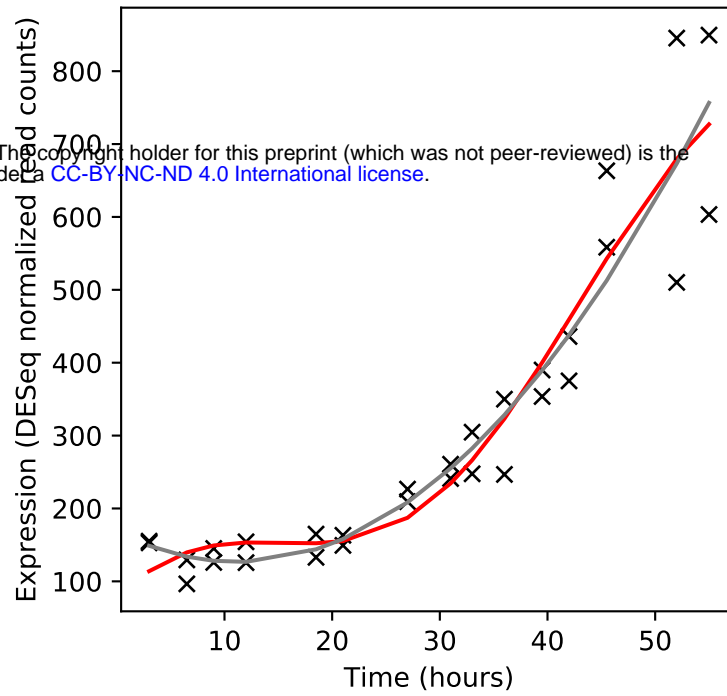
Rv1211/-



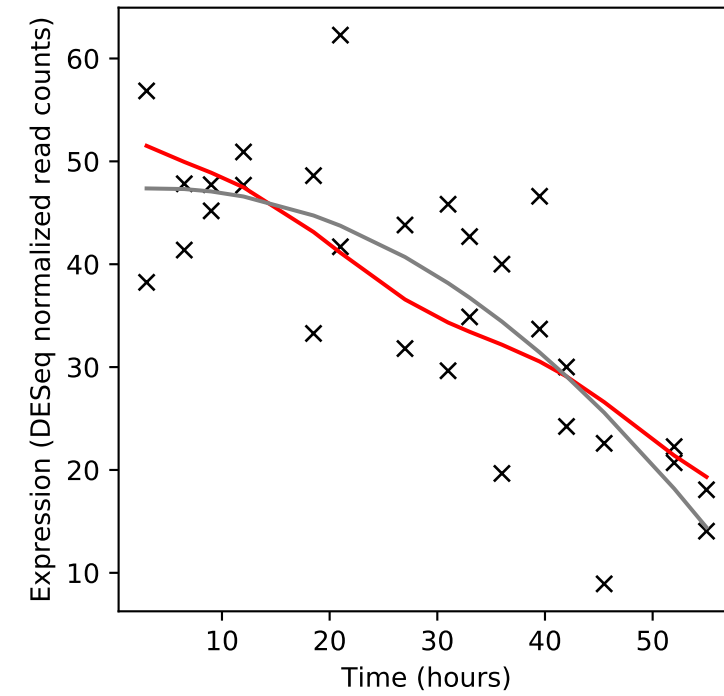
Rv1212c/glgA



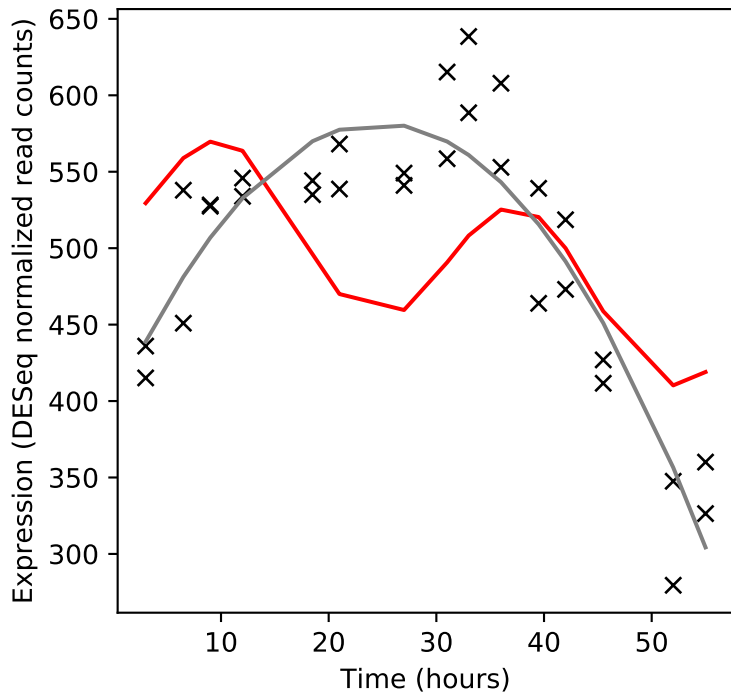
Rv1213/glgC



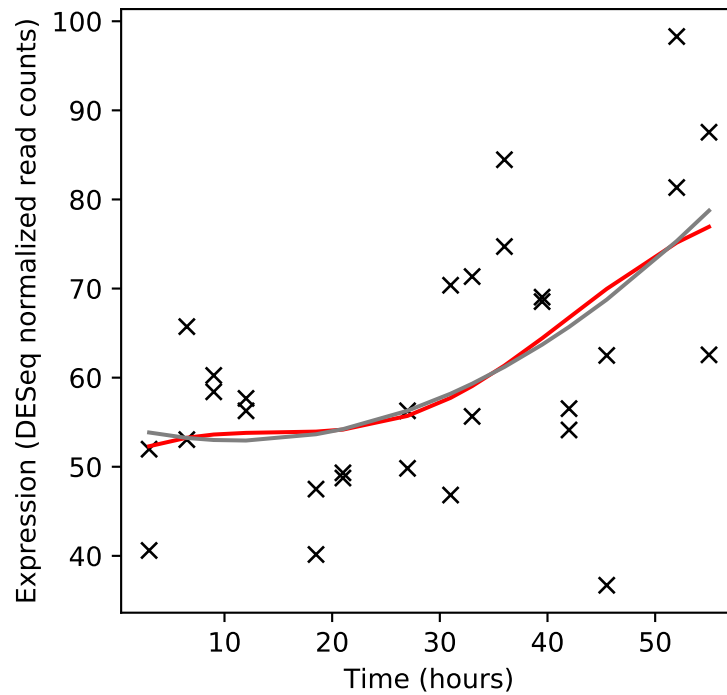
Rv1214c/PE14



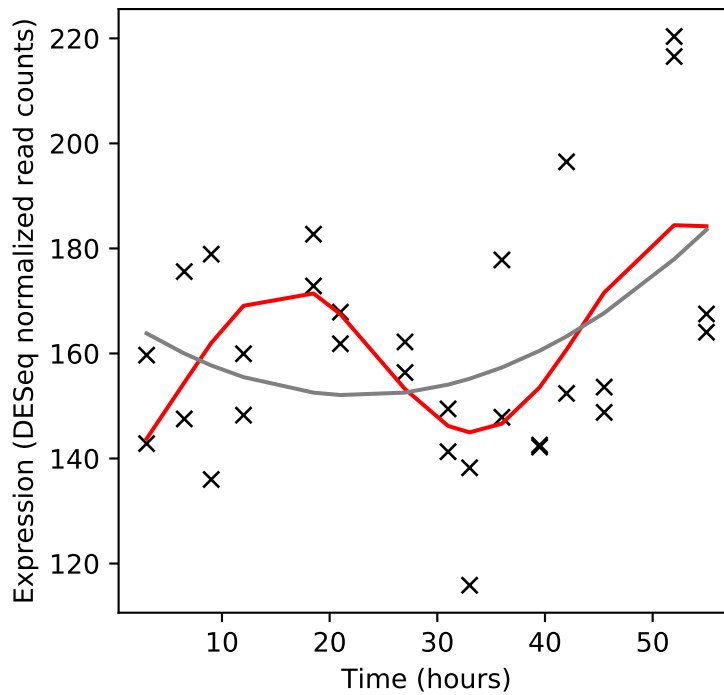
Rv1215c/-



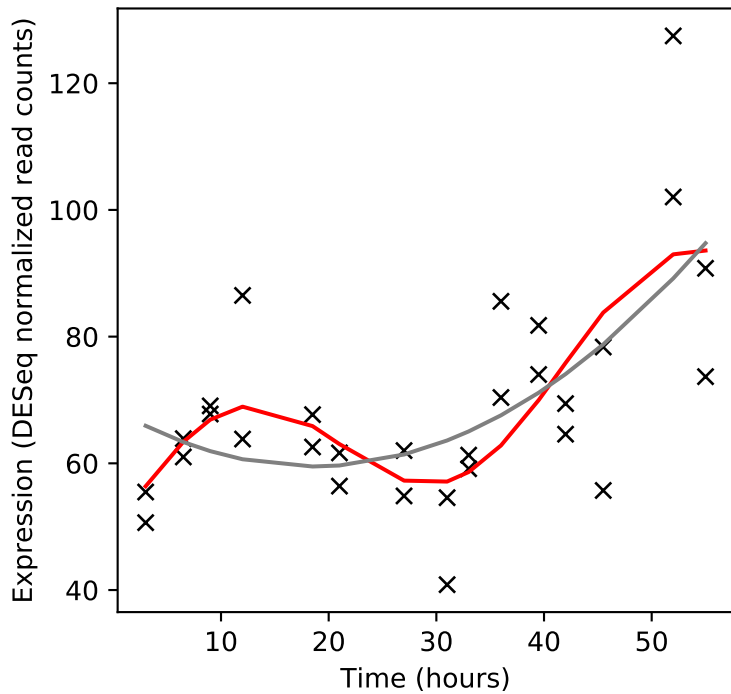
Rv1216c/-



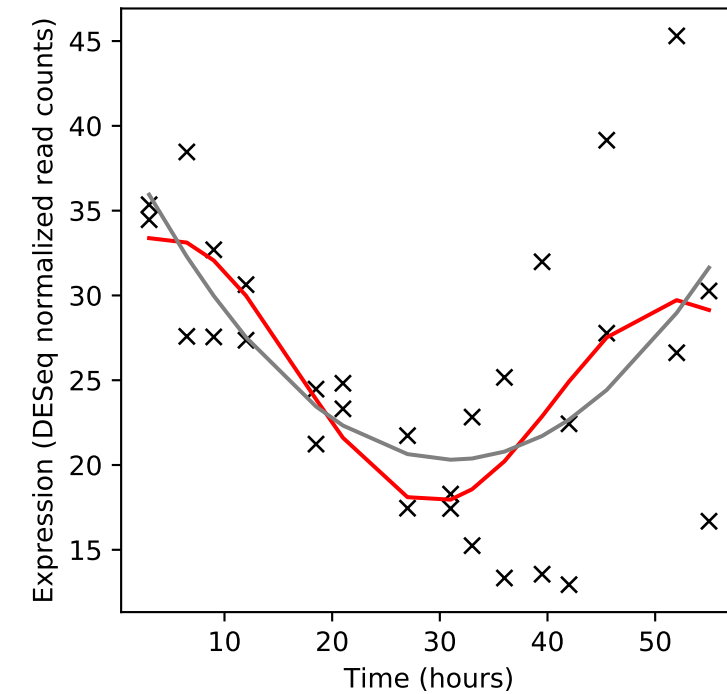
Rv1217c/-



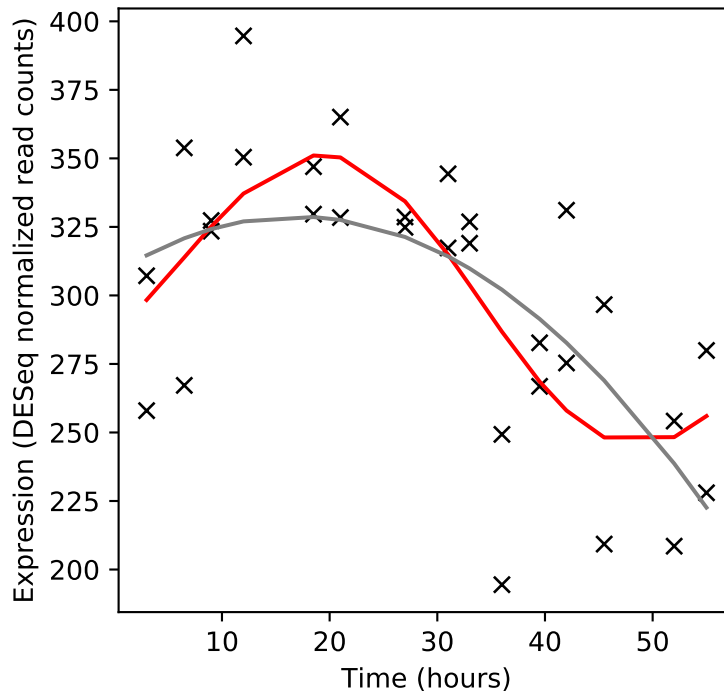
Rv1218c/-



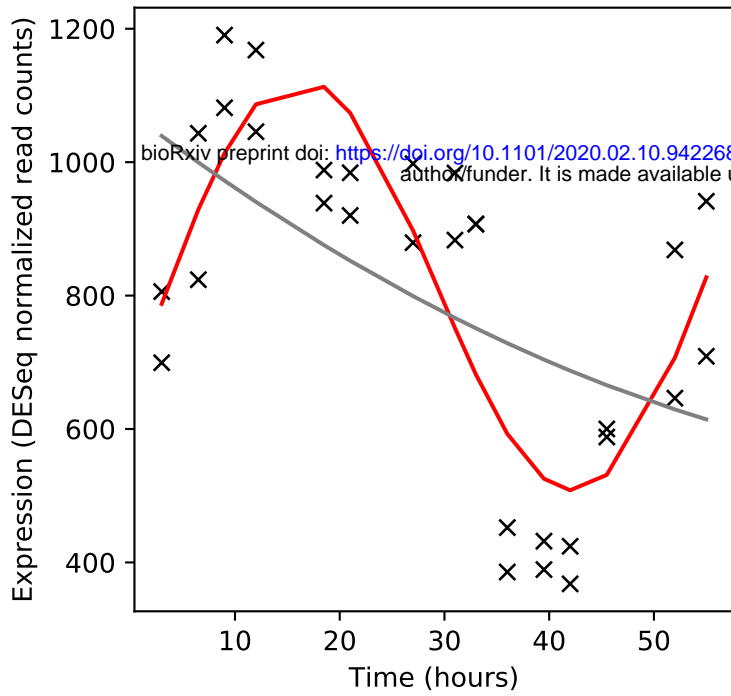
Rv1219c/-



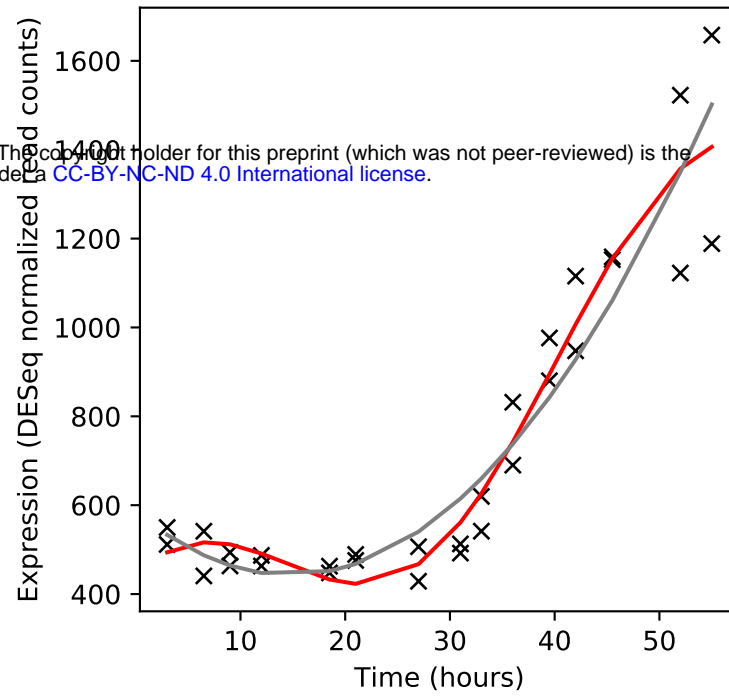
Rv1220c/-



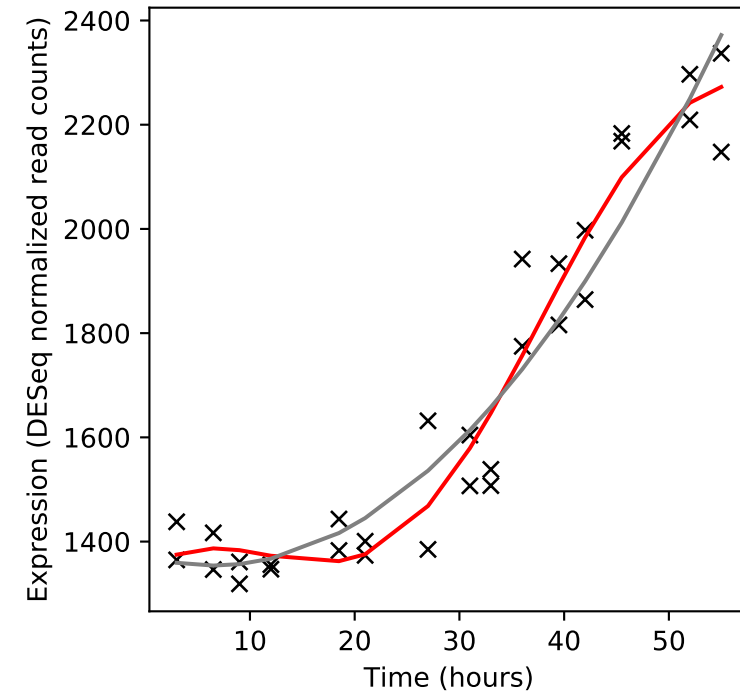
Rv1221/sigE



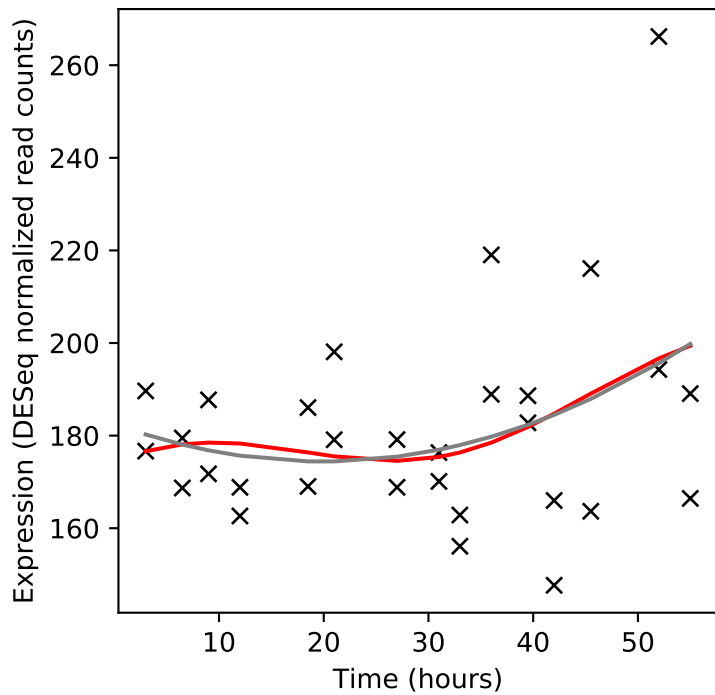
Rv1222/rseA



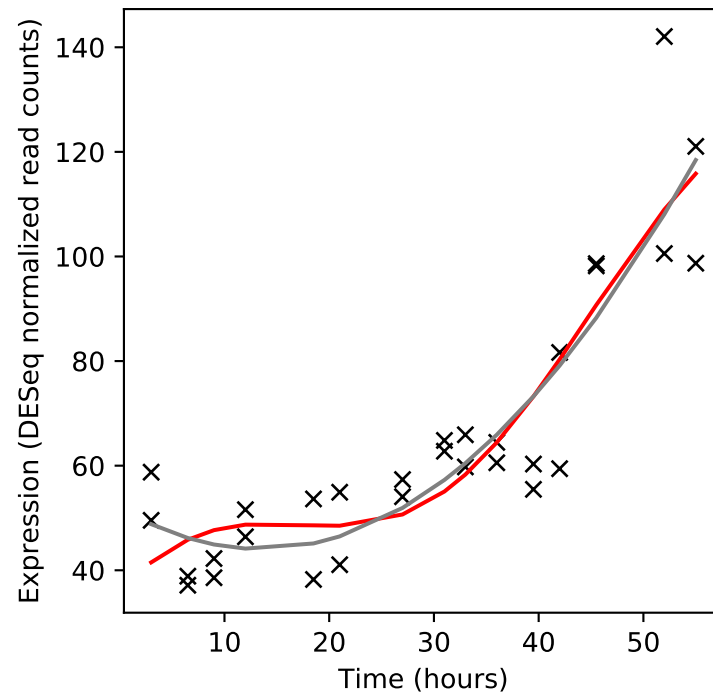
Rv1223/htrA



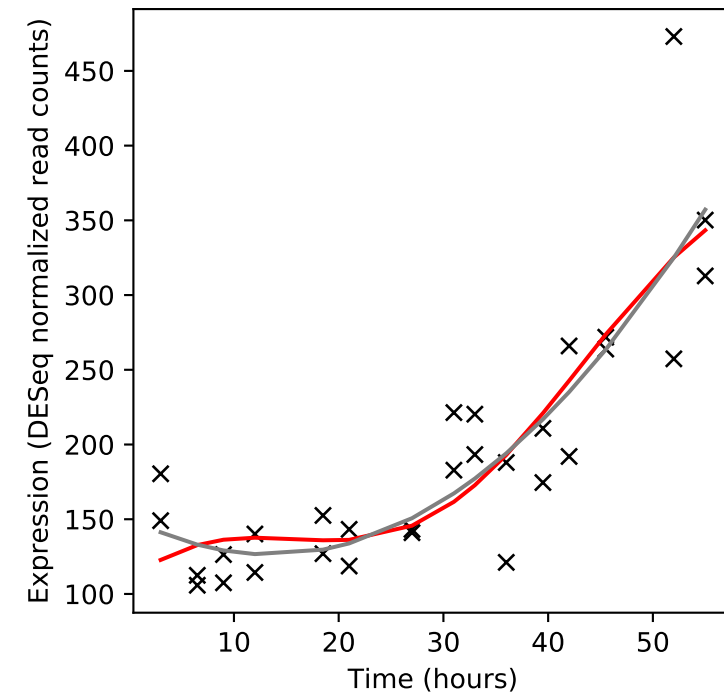
Rv1224/tatB



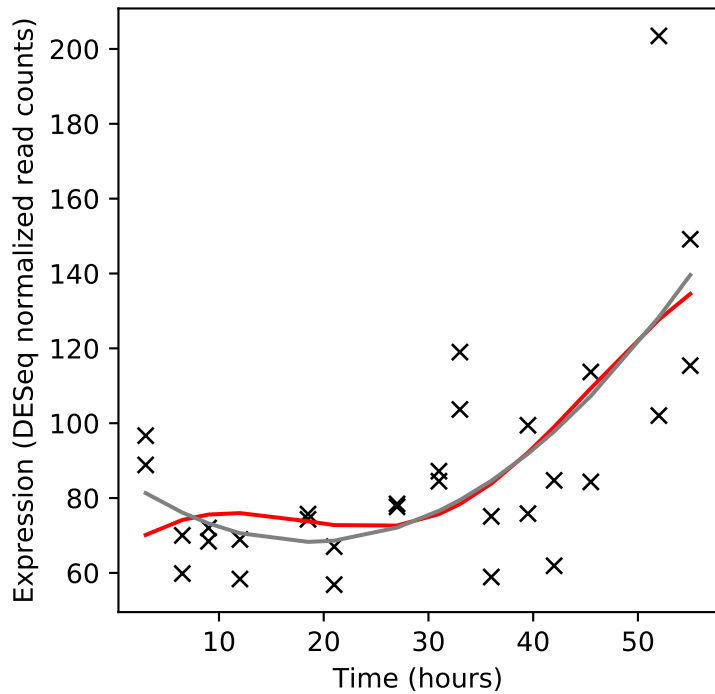
Rv1225c/-



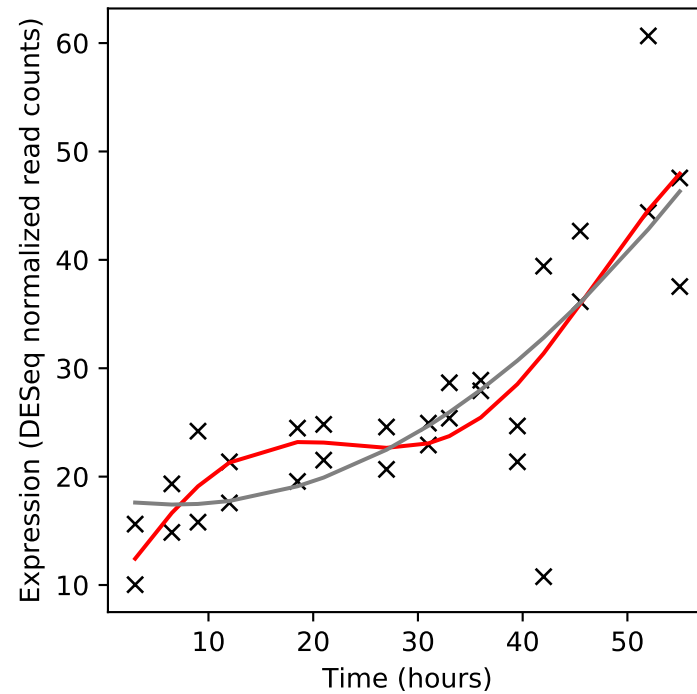
Rv1226c/-



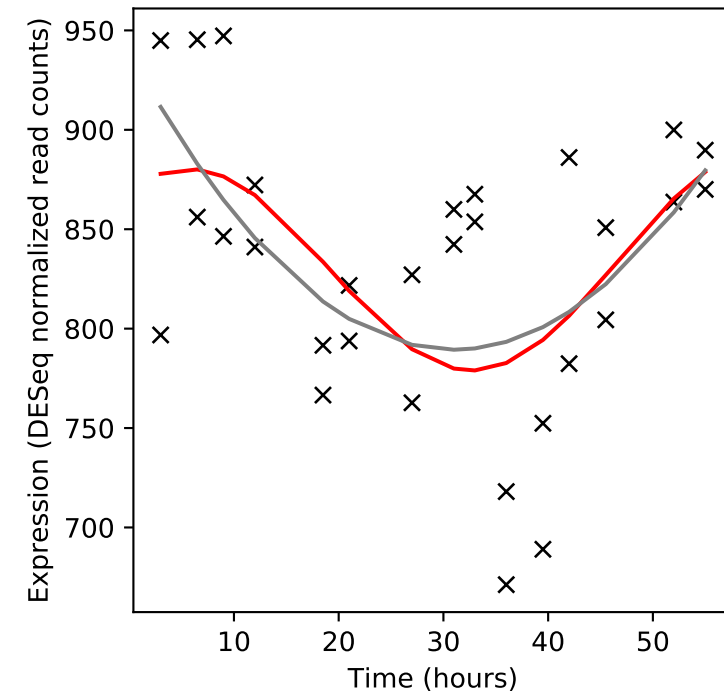
Rv1227c/-



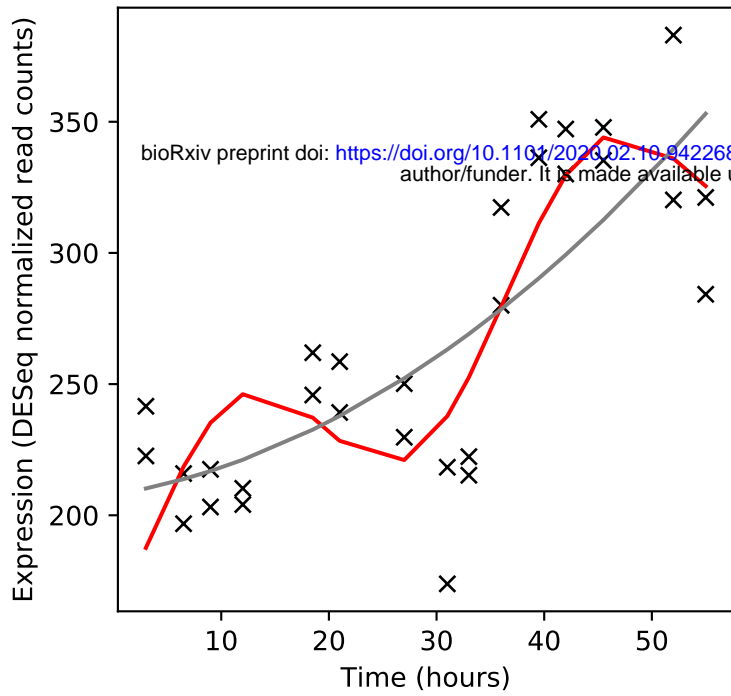
Rv1228/lpqX



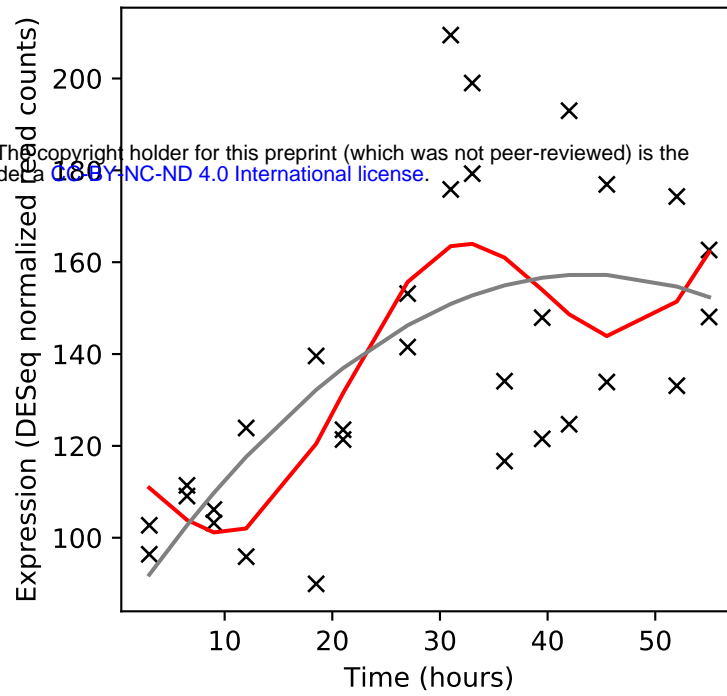
Rv1229c/mrp



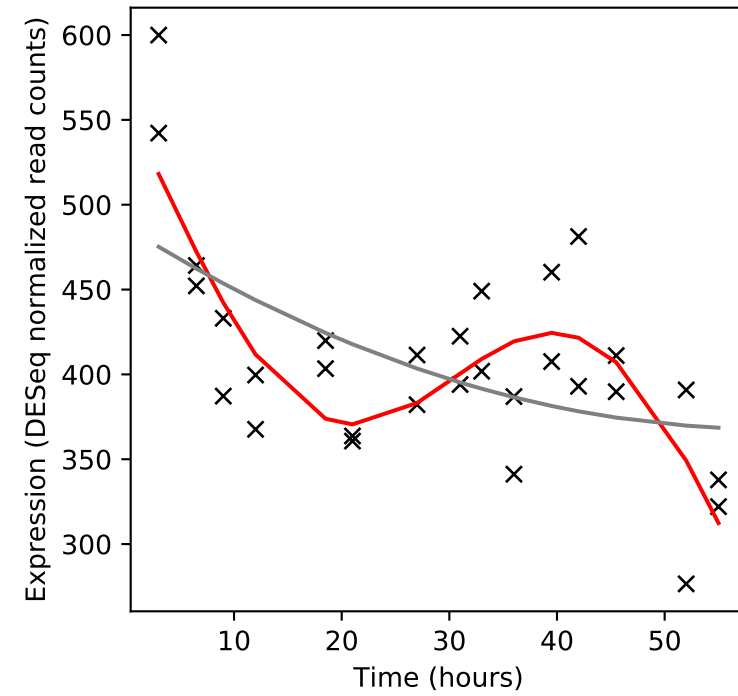
Rv1230c/-



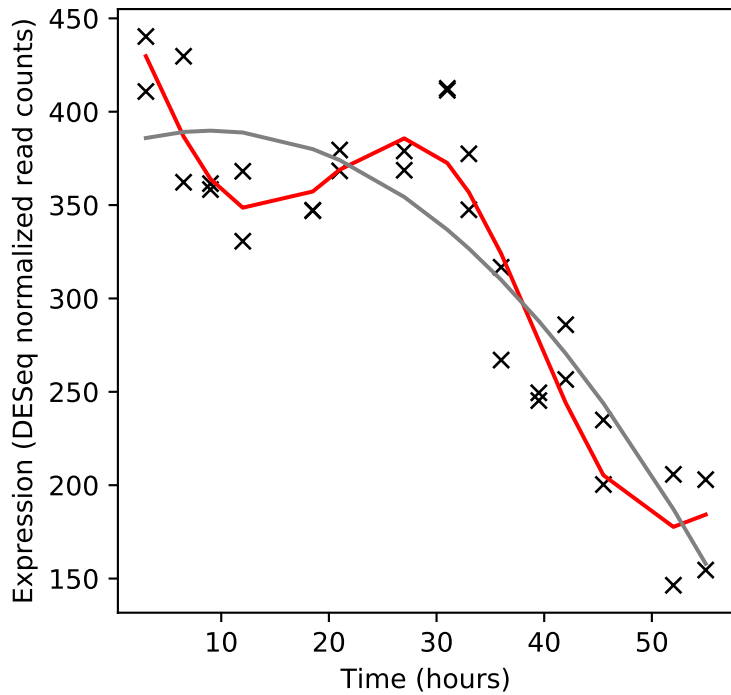
Rv1231c/-



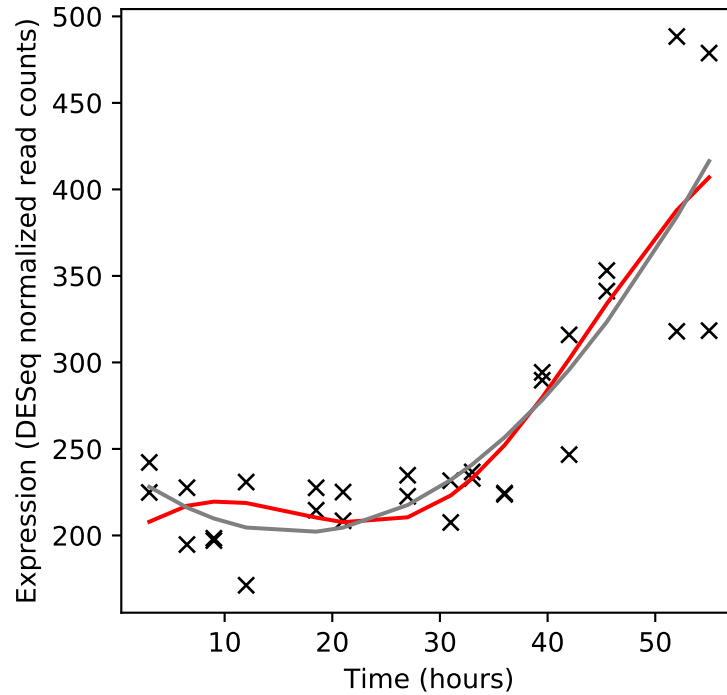
Rv1232c/-



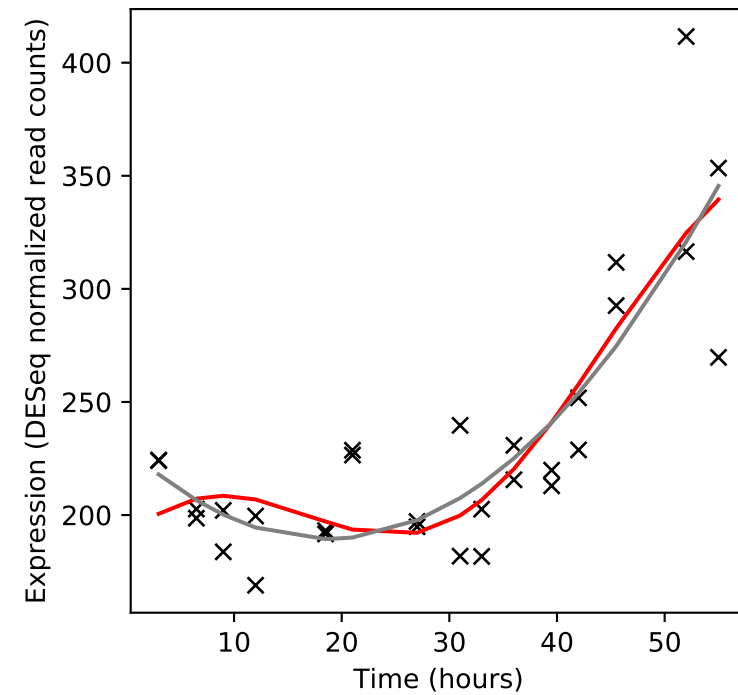
Rv1233c/-



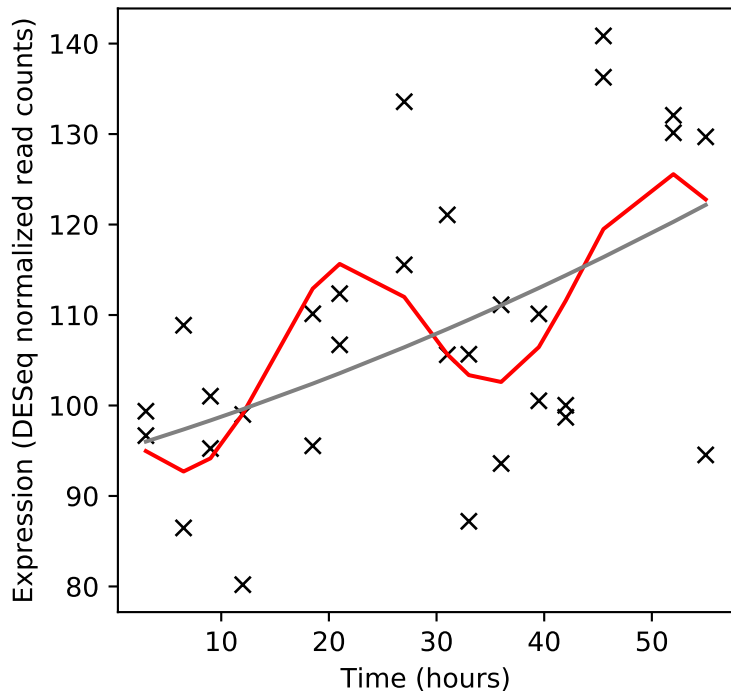
Rv1234/-



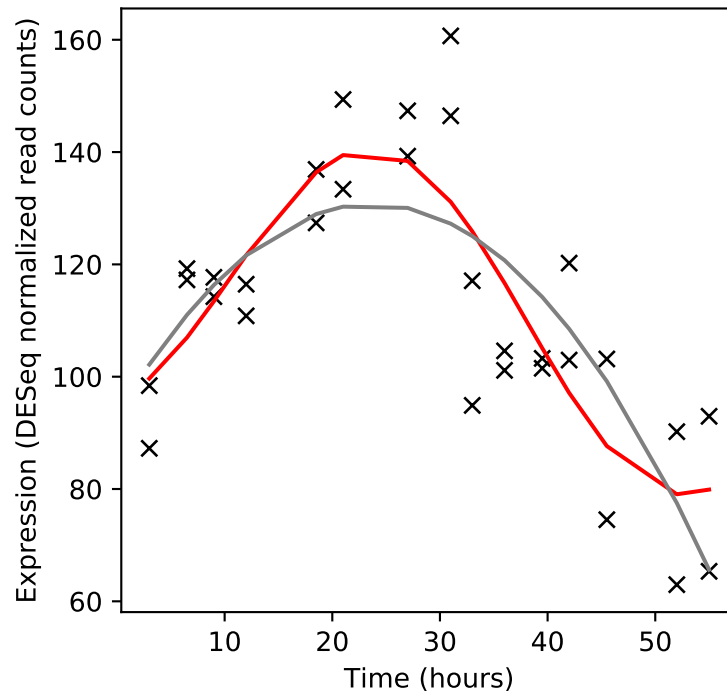
Rv1235/lpqY



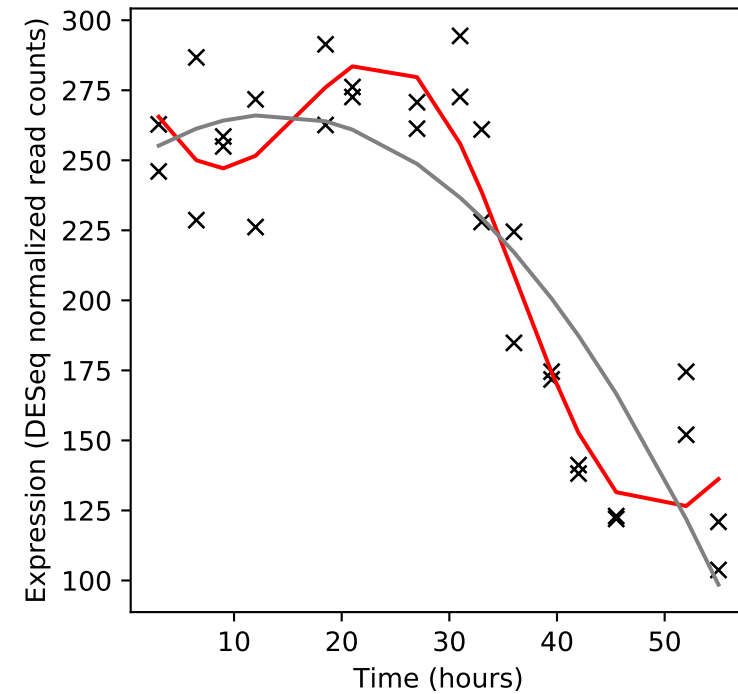
Rv1236/sugA



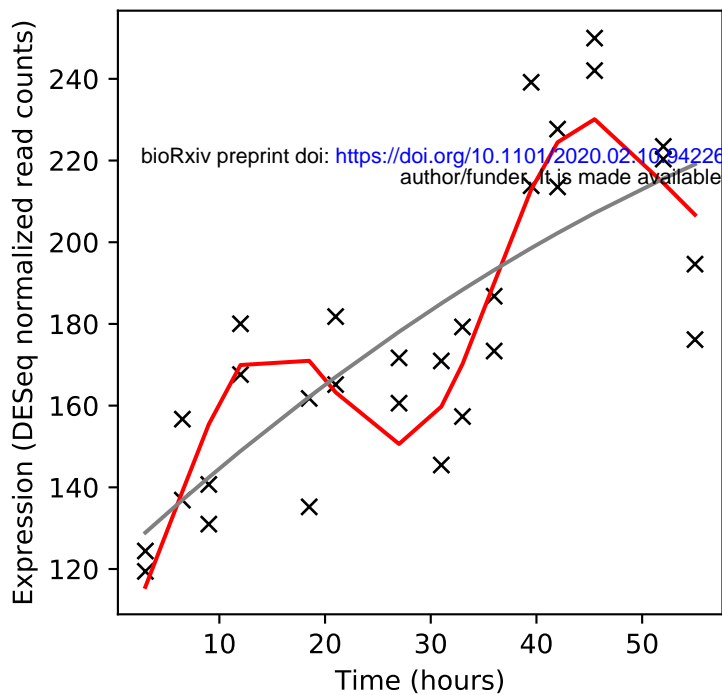
Rv1237/sugB



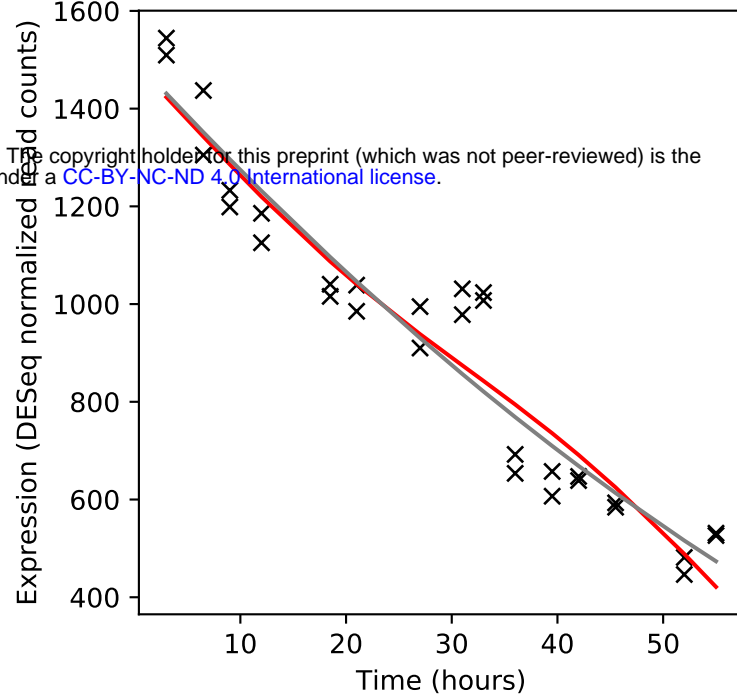
Rv1238/sugC



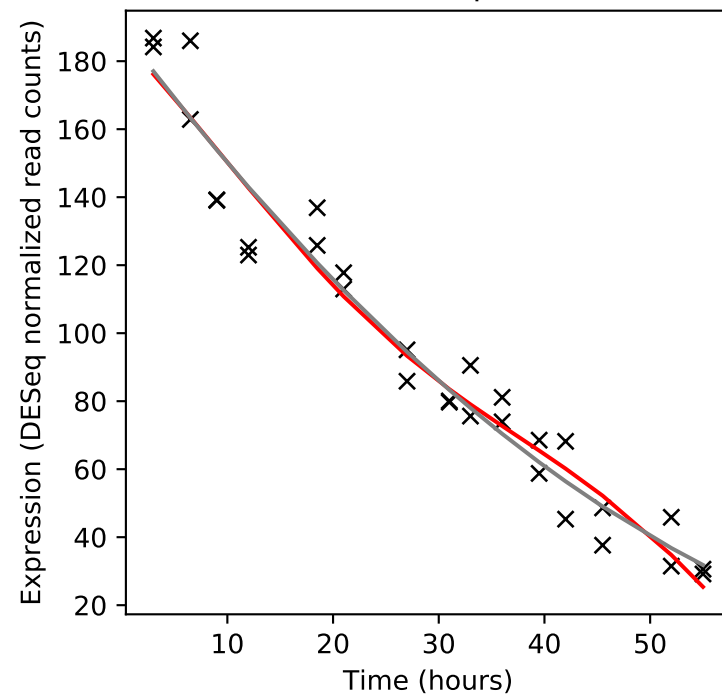
Rv1239c/corA



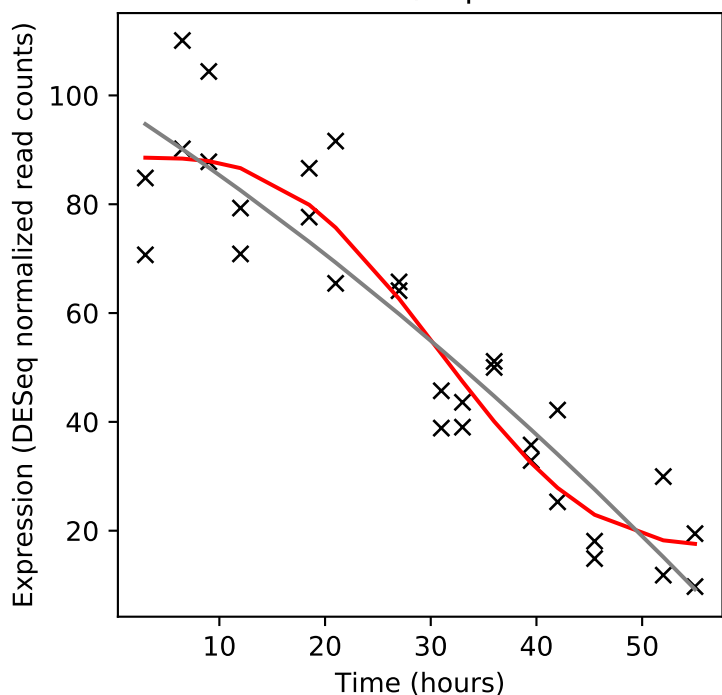
Rv1240/mdh



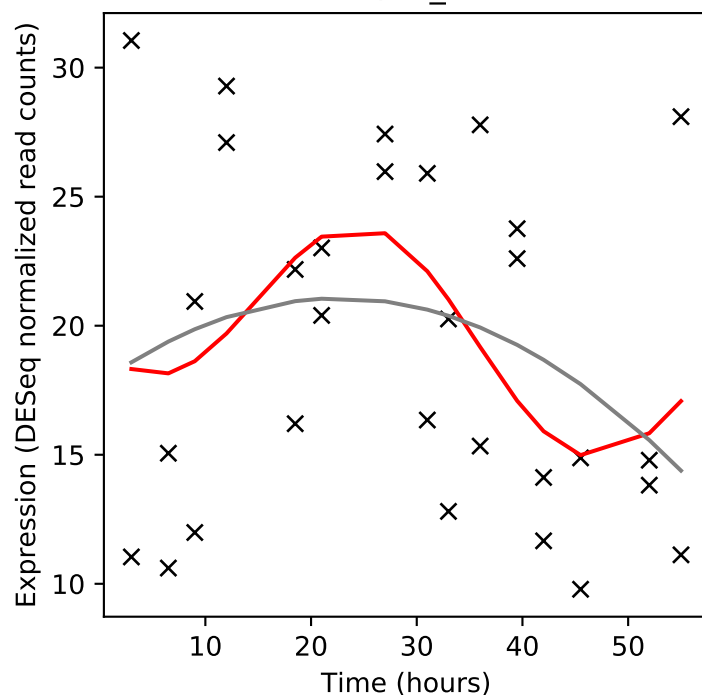
Rv1241/vapB33



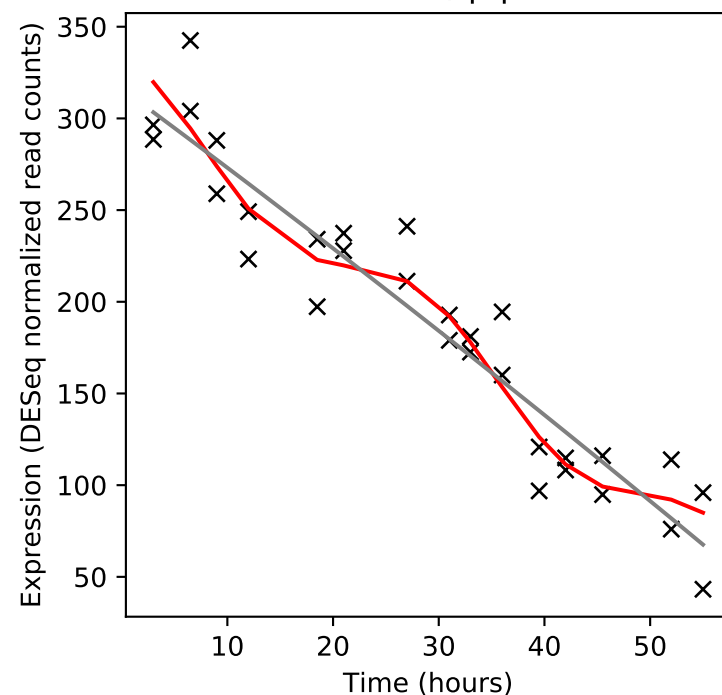
Rv1242/vapC33



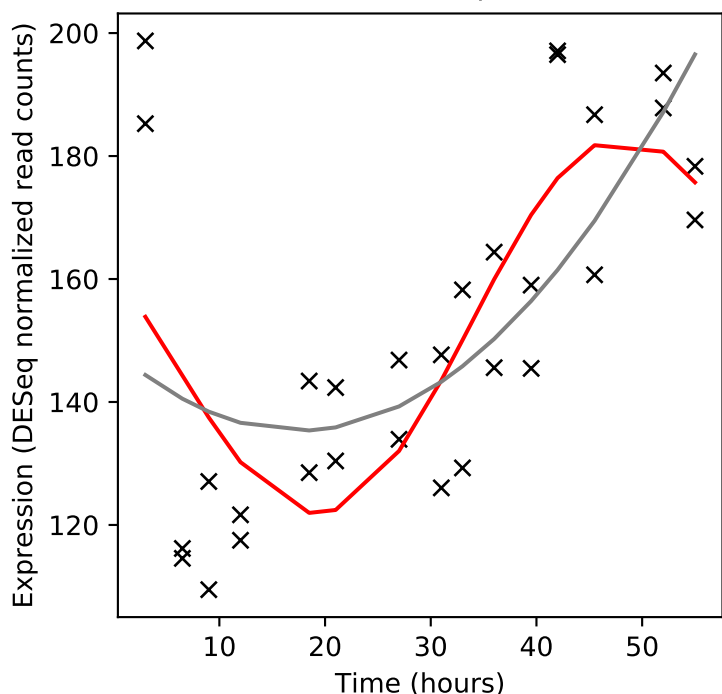
Rv1243c/PE_PGRS23



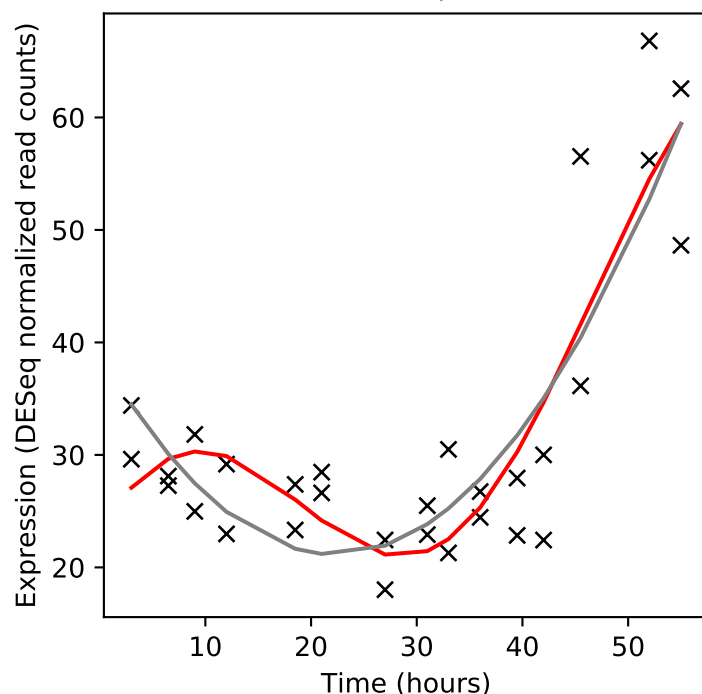
Rv1244/lpqZ



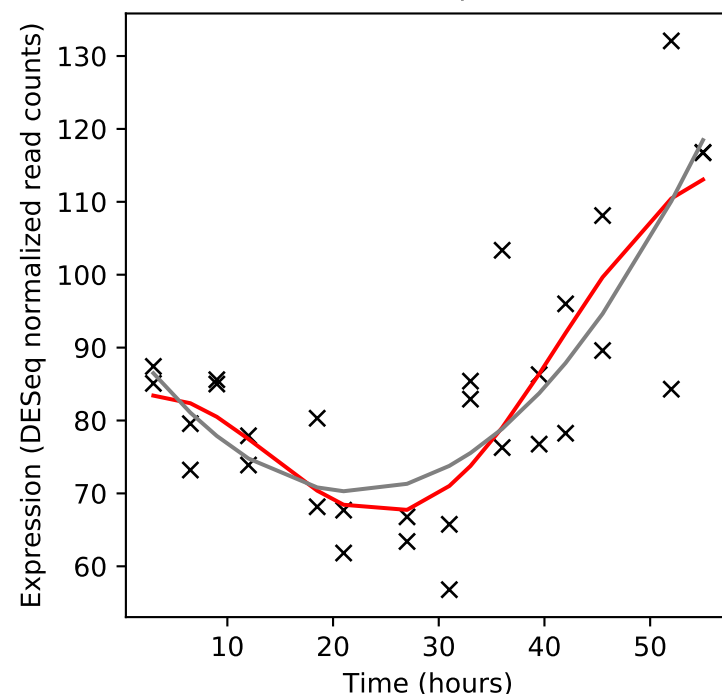
Rv1245c/-



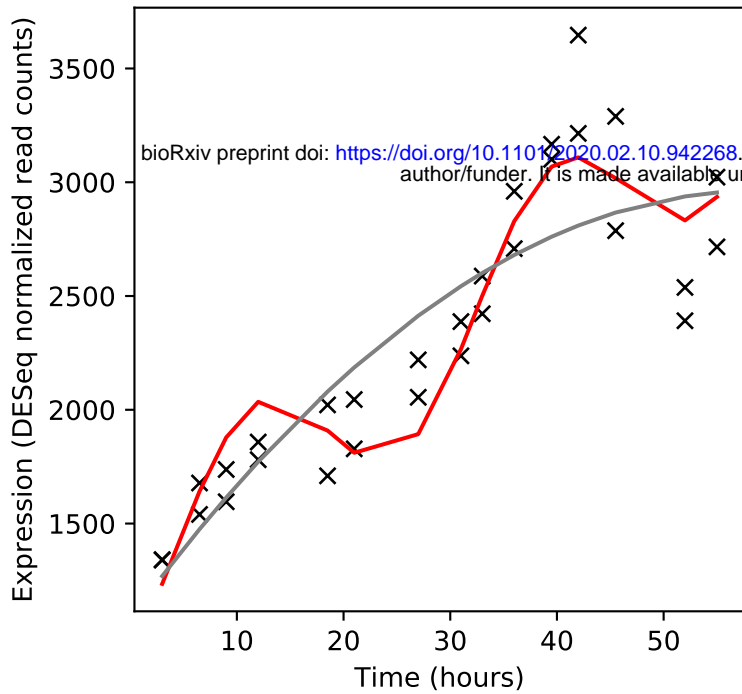
Rv1246c/reIE



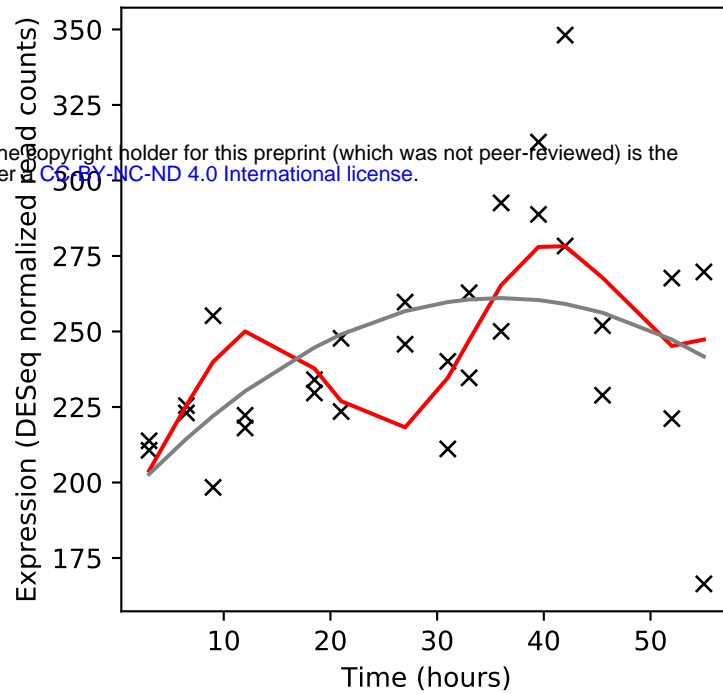
Rv1247c/reIB



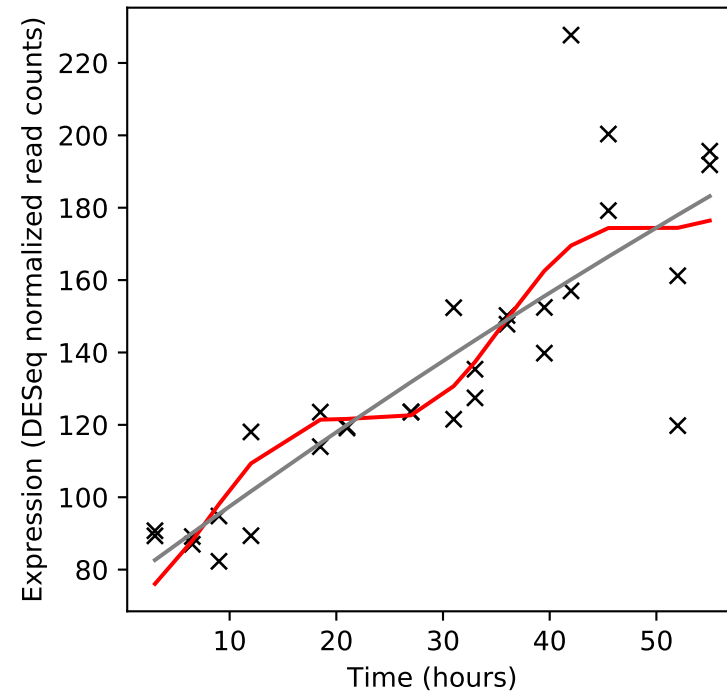
Rv1248c/-



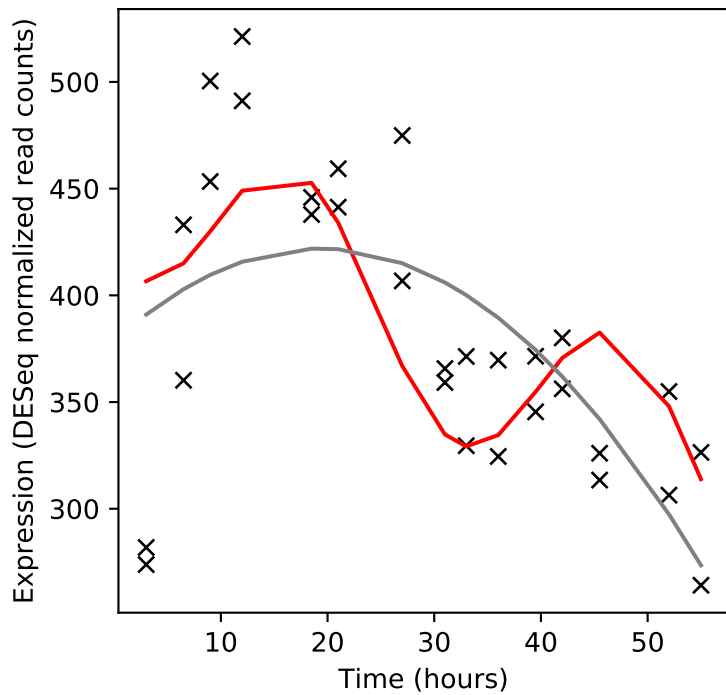
Rv1249c/-



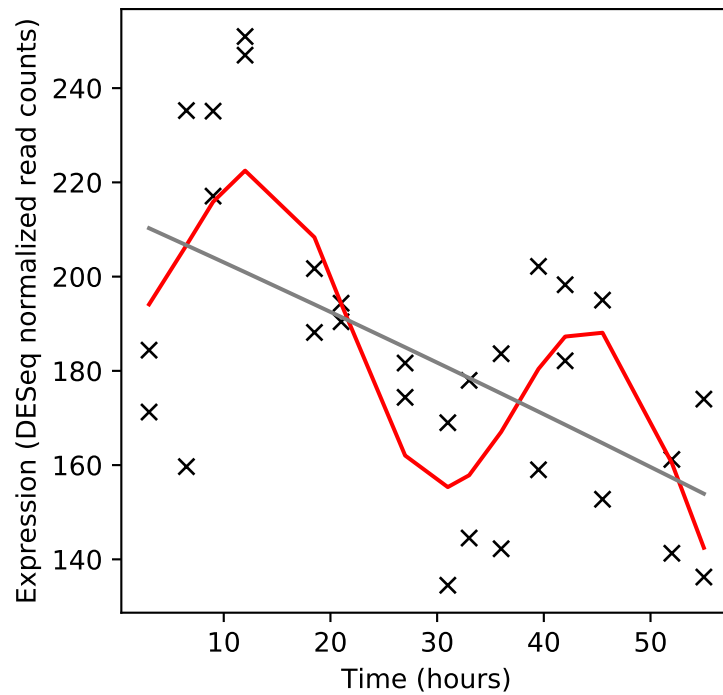
Rv1250/-



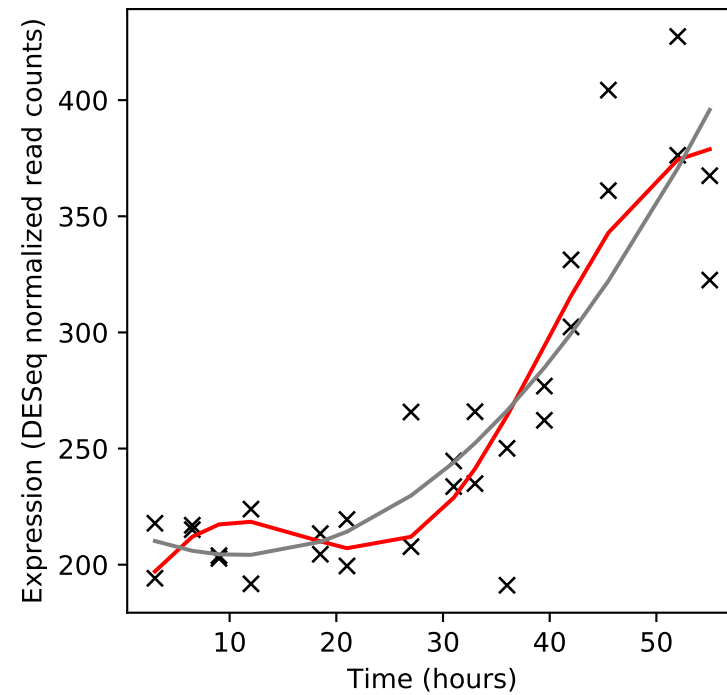
Rv1251c/-



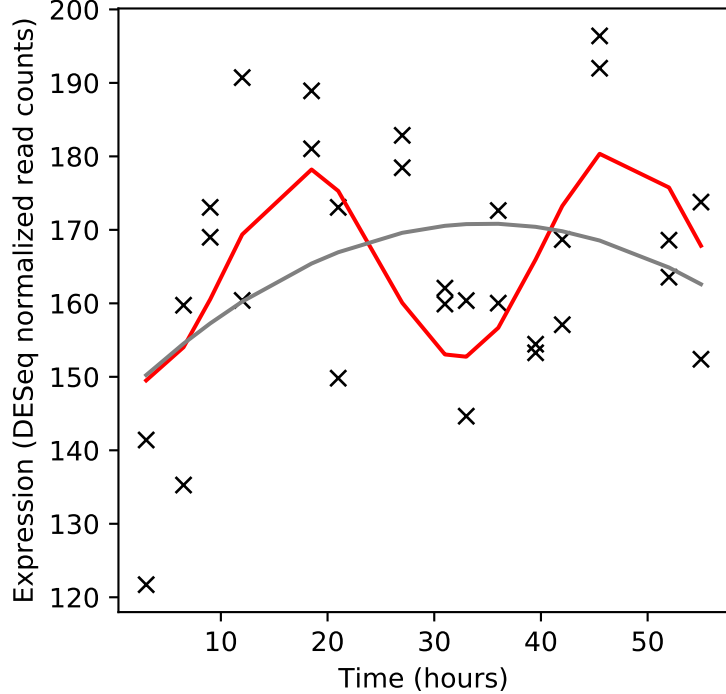
Rv1252c/lprE



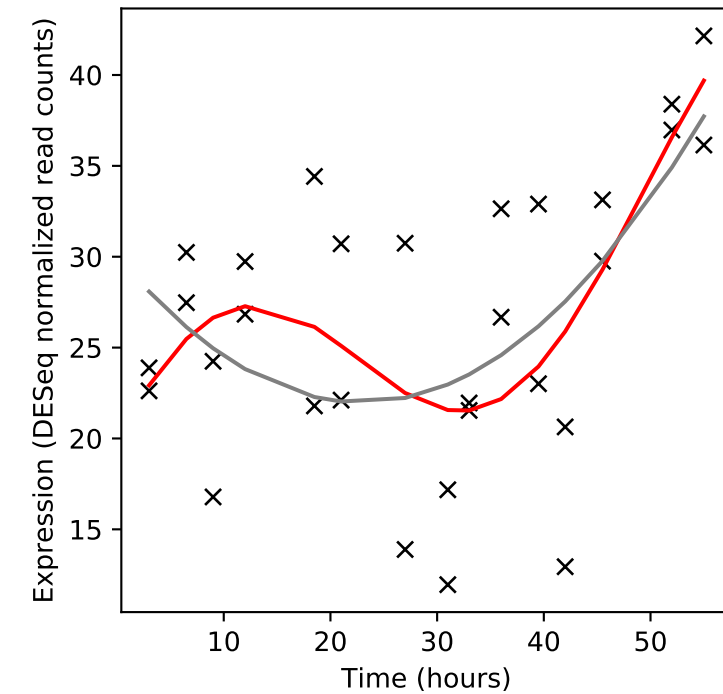
Rv1253/deaD



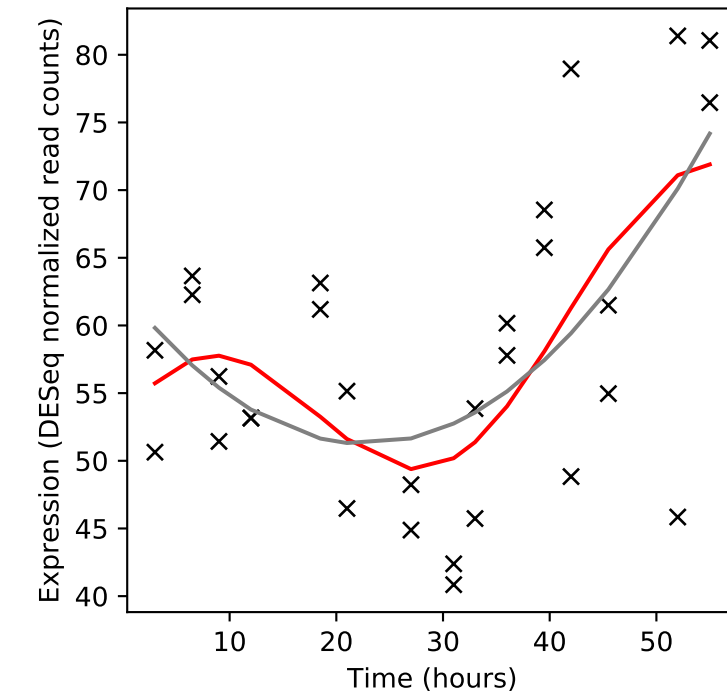
Rv1254/-



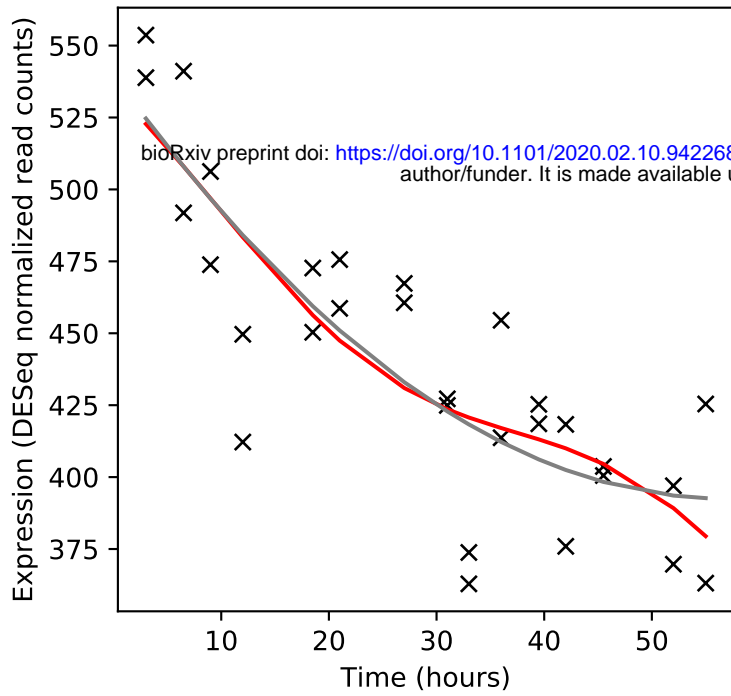
Rv1255c/-



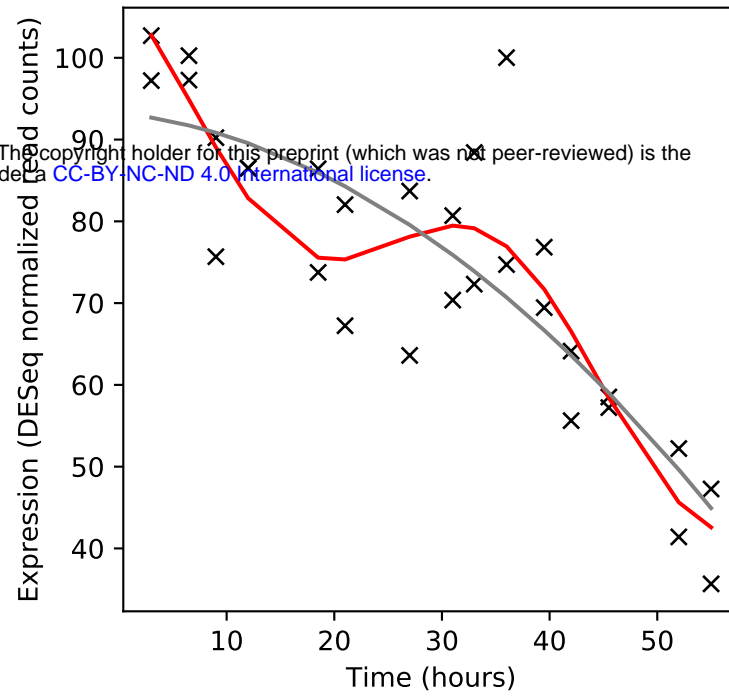
Rv1256c/cyp130



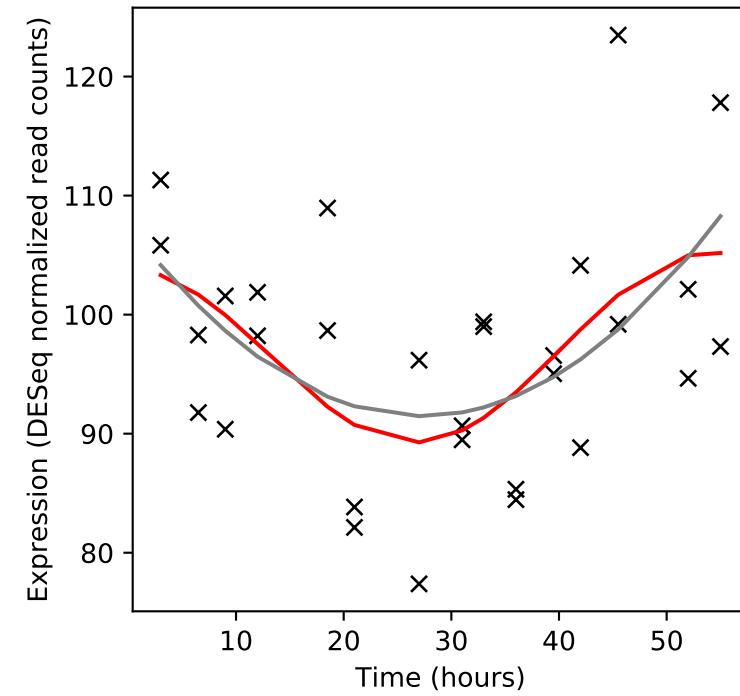
Rv1257c/-



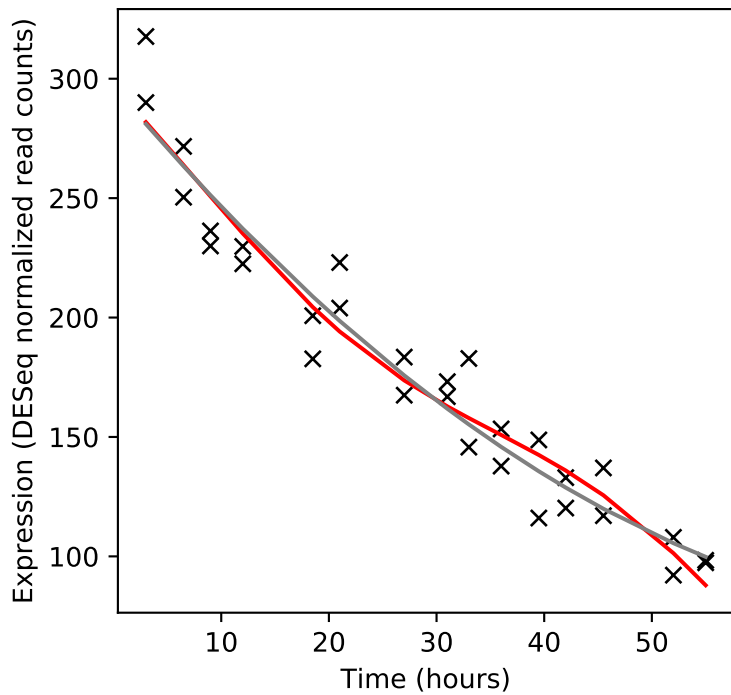
Rv1258c/-



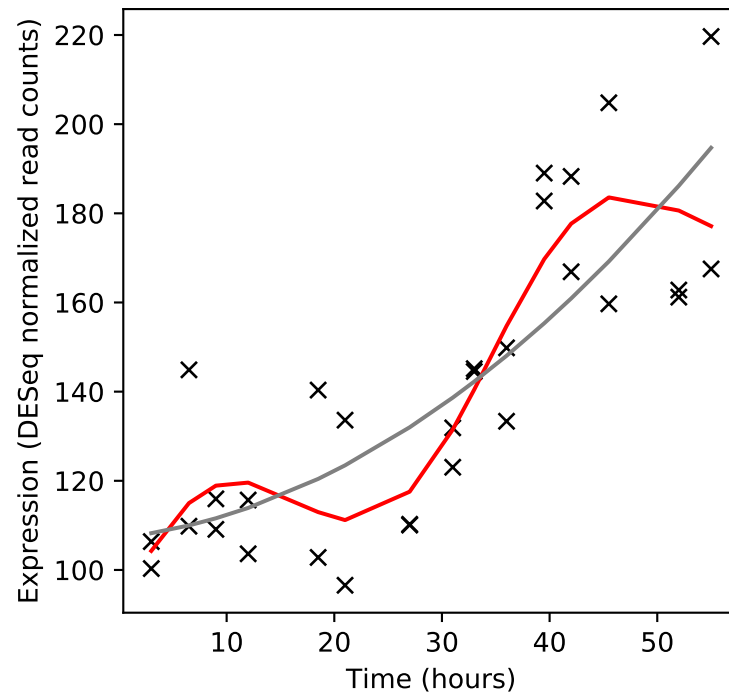
Rv1259/udgB



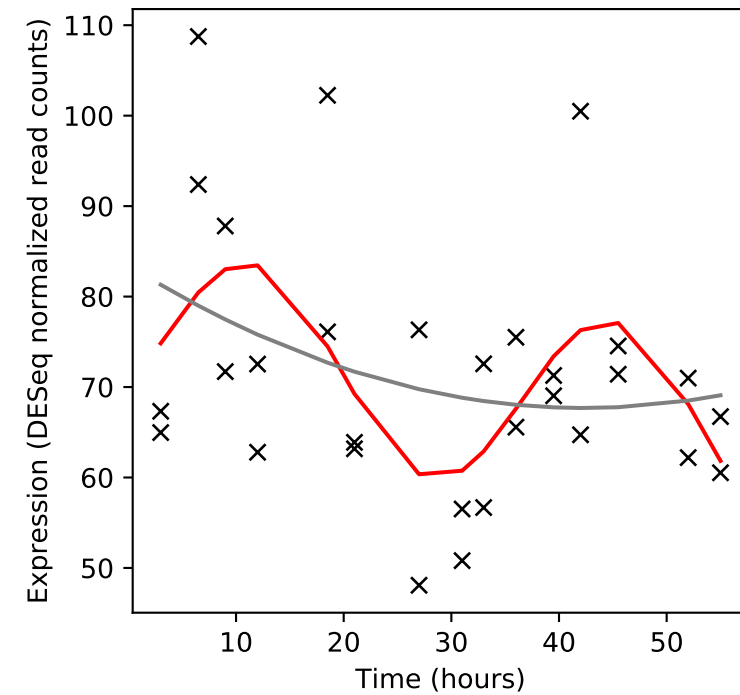
Rv1260/-



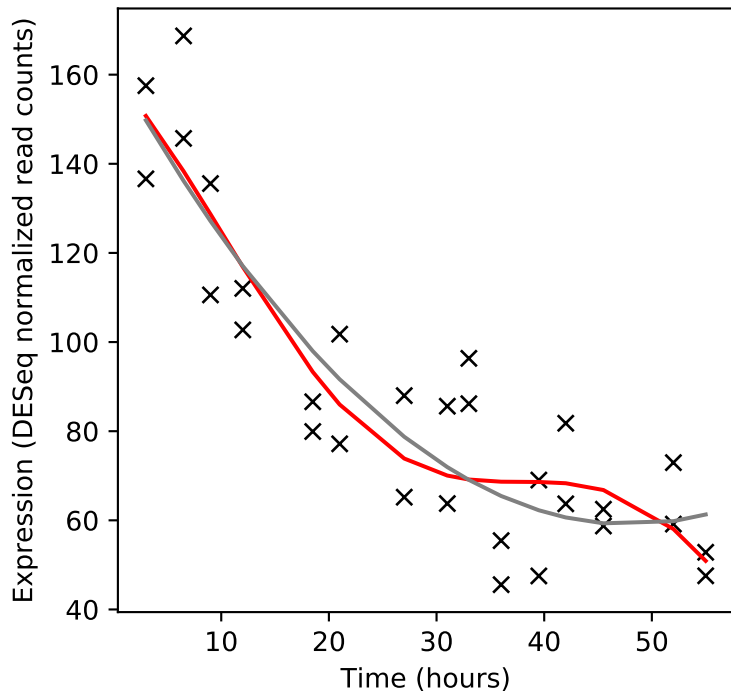
Rv1261c/-



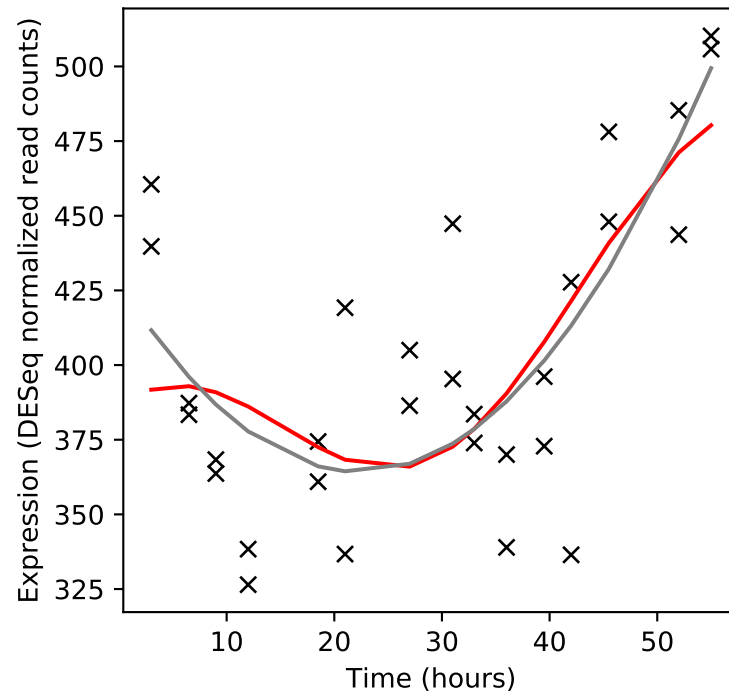
Rv1262c/-



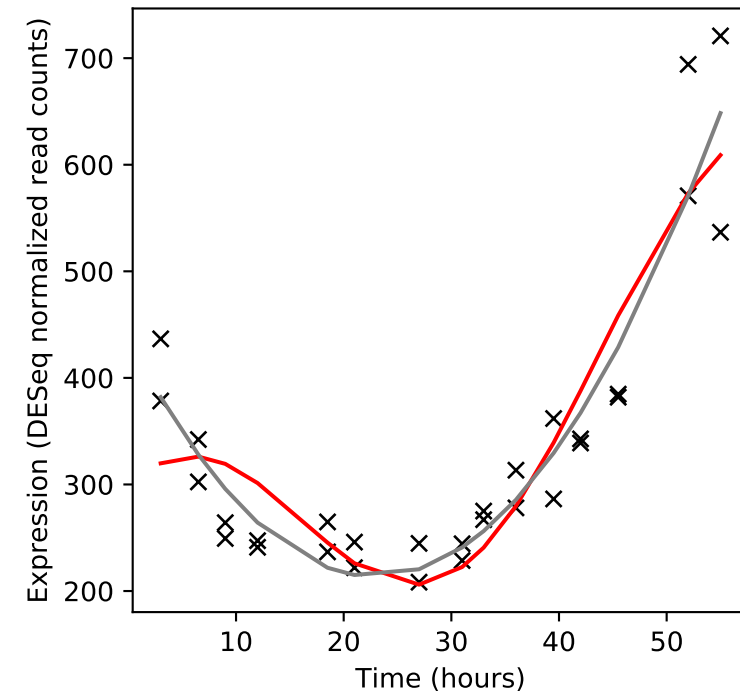
Rv1263/amiB2



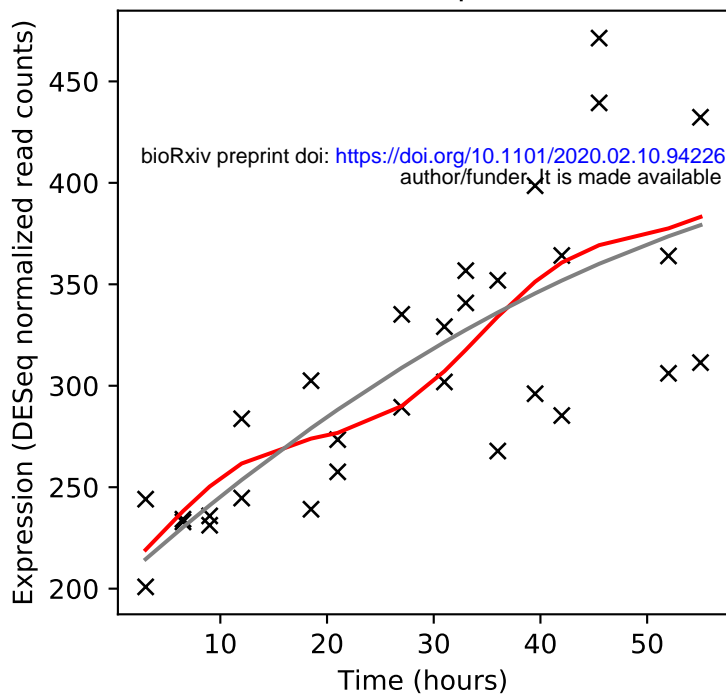
Rv1264/-



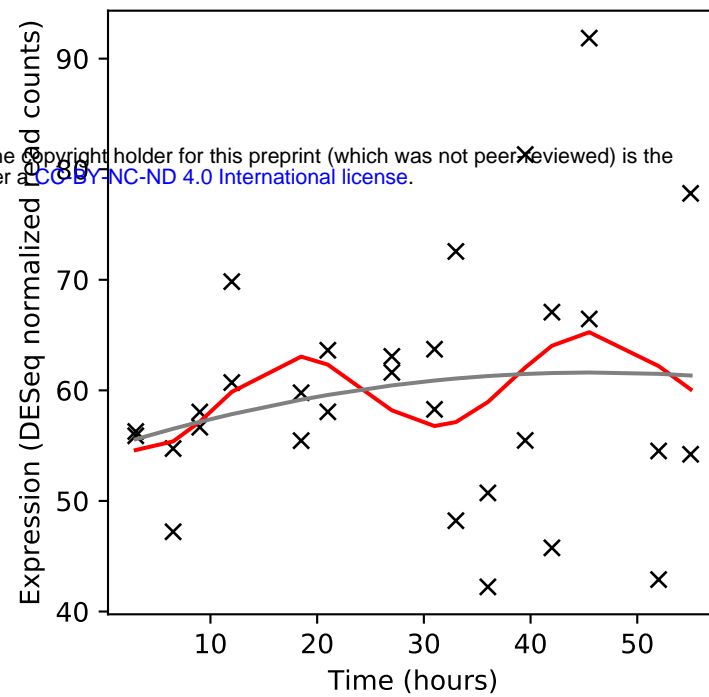
Rv1265/-



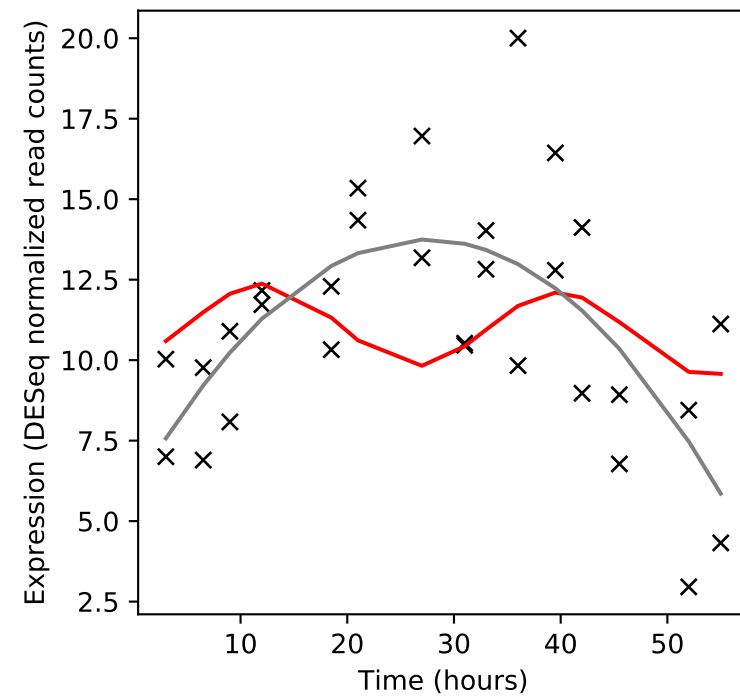
Rv1266c/pknH



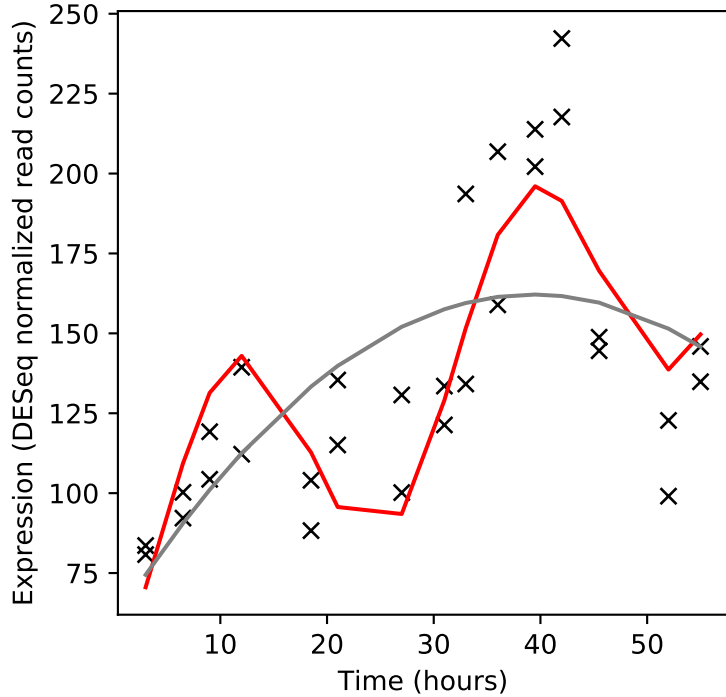
Rv1267c/embR



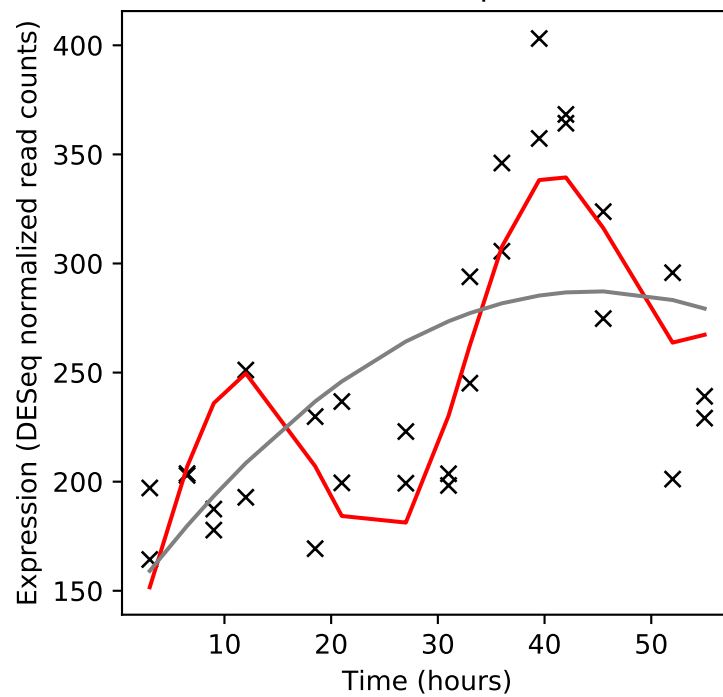
Rv1268c/-



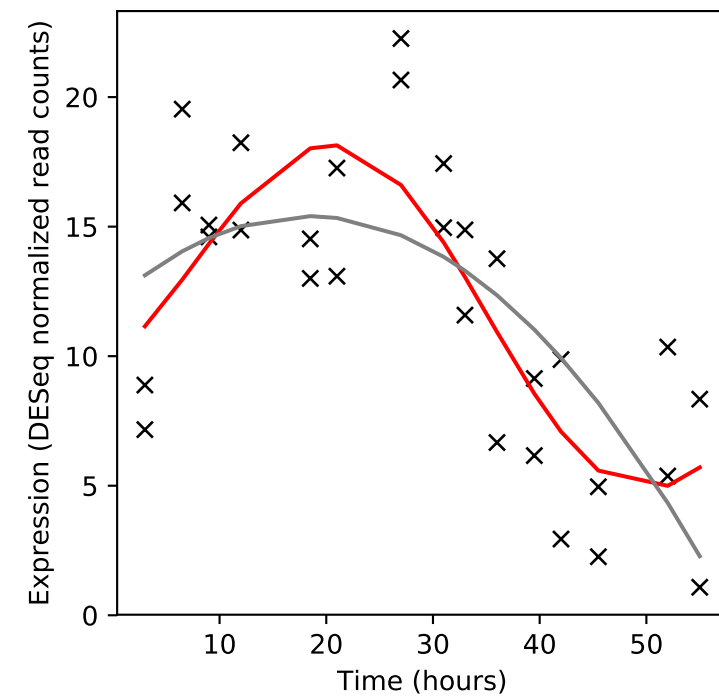
Rv1269c/-



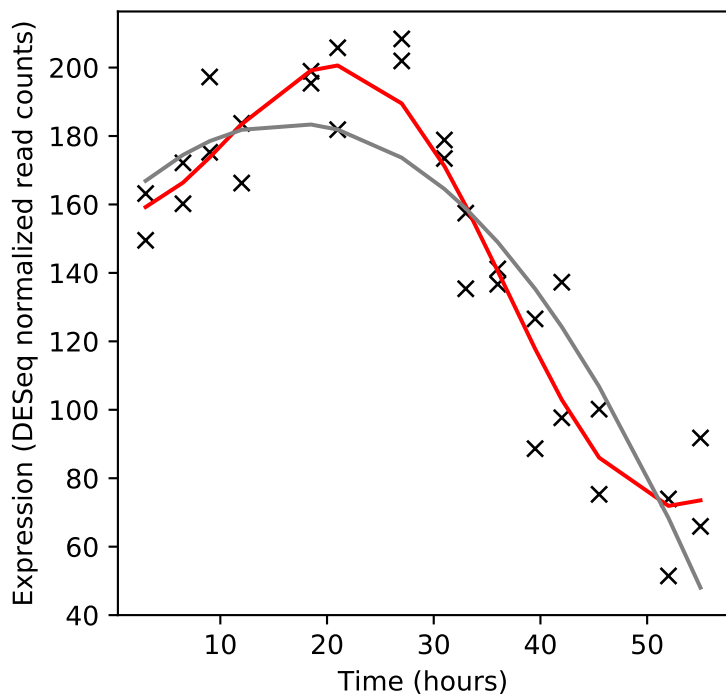
Rv1270c/lprA



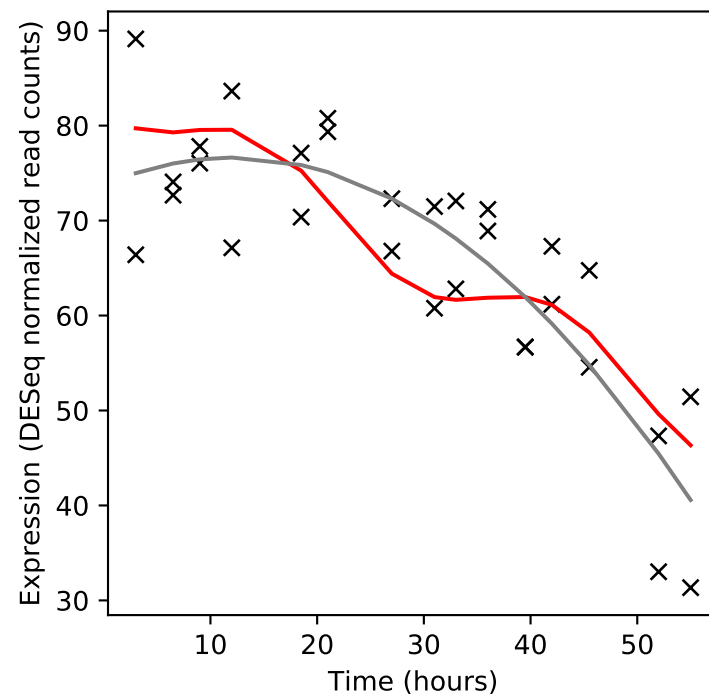
Rv1271c/-



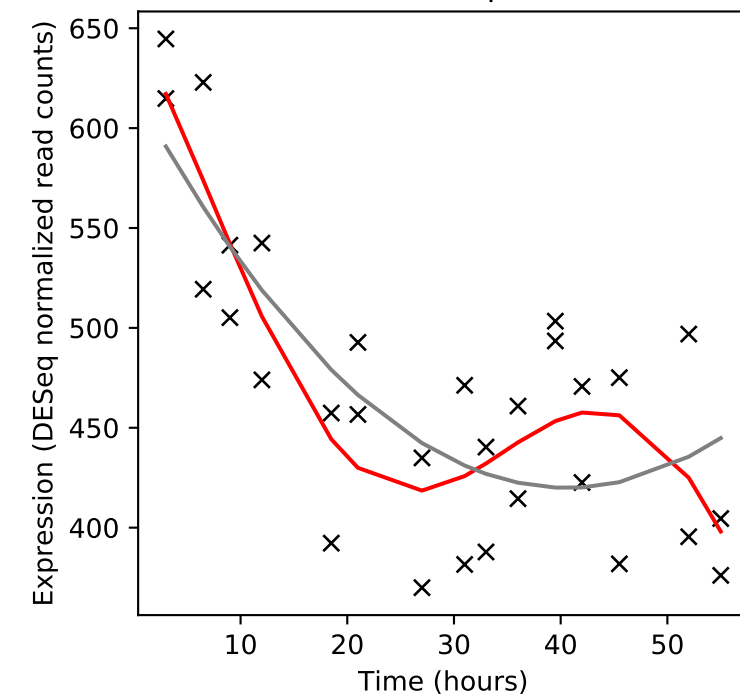
Rv1272c/-



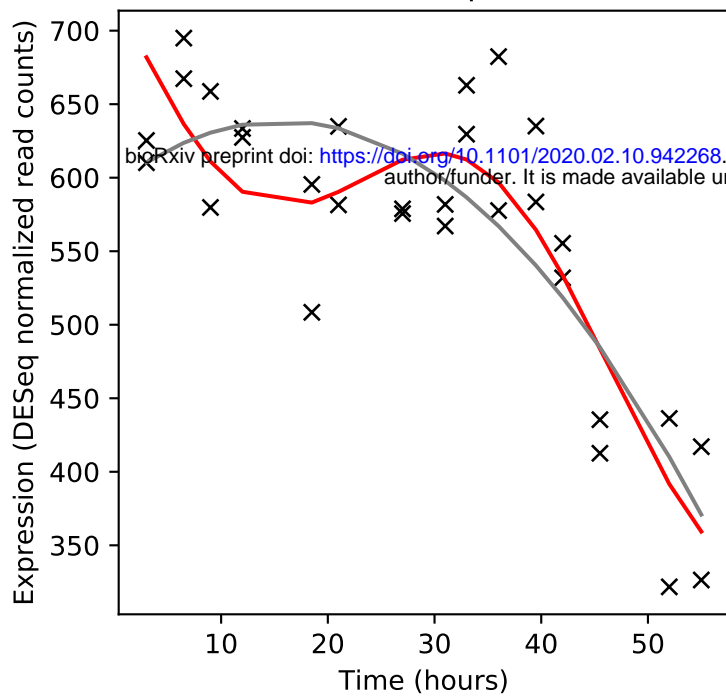
Rv1273c/-



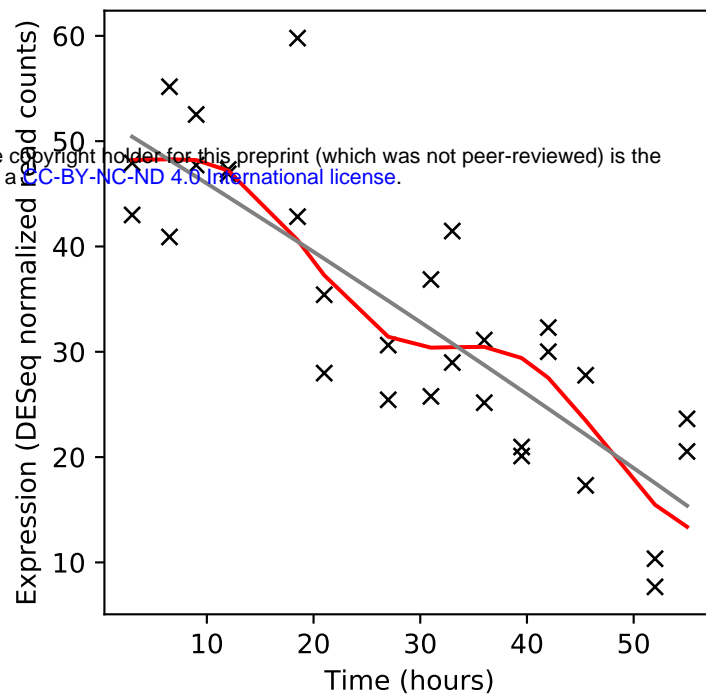
Rv1274/lprB



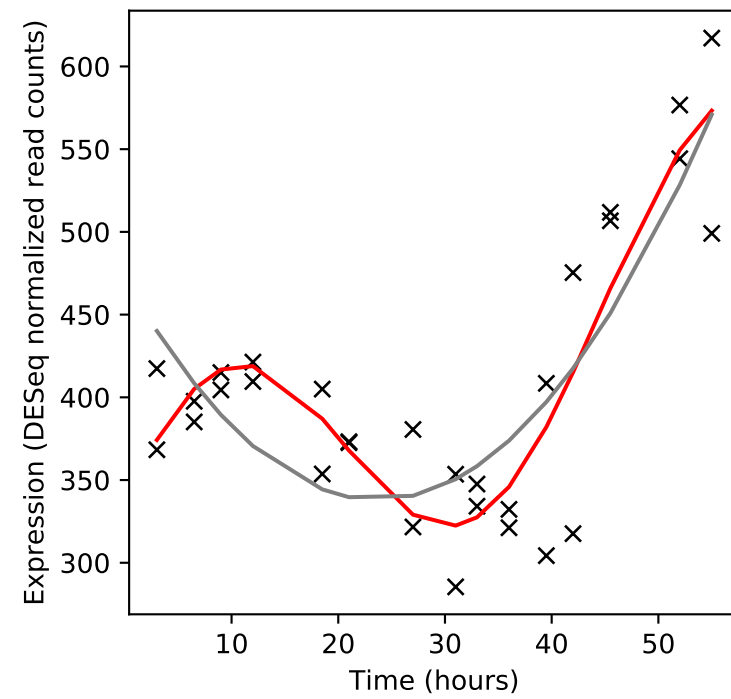
Rv1275/lprC



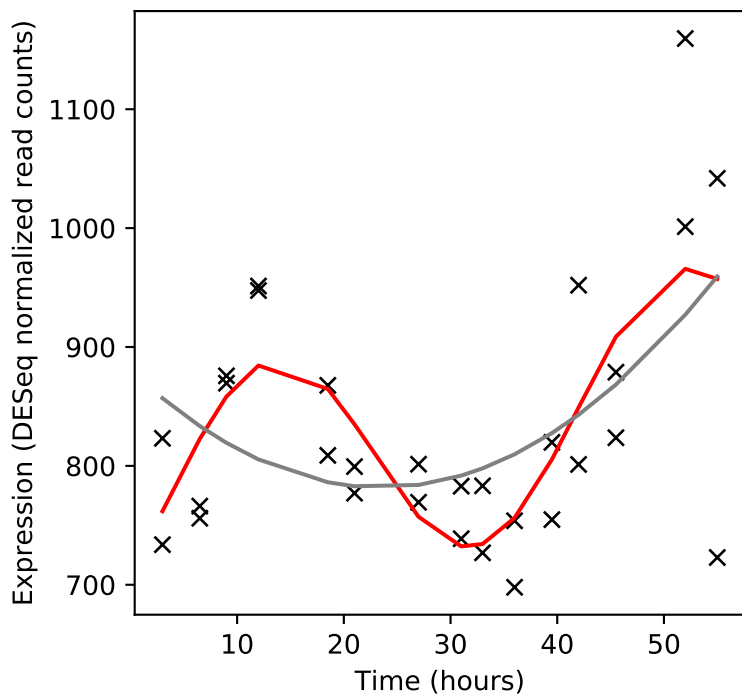
Rv1276c/-



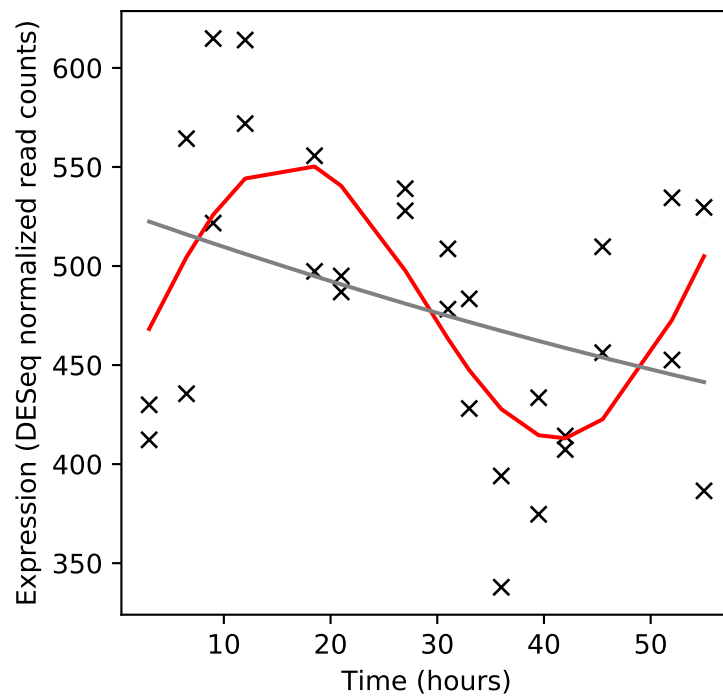
Rv1277/-



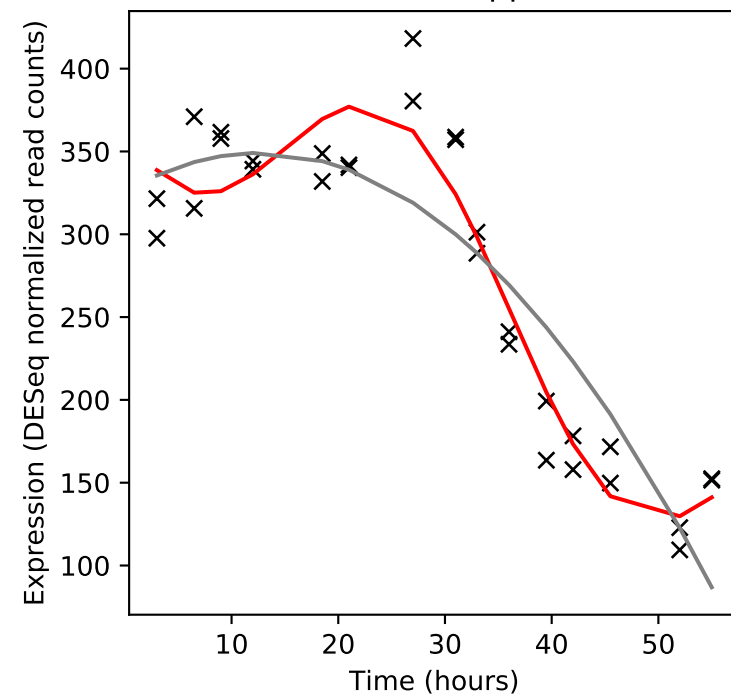
Rv1278/-



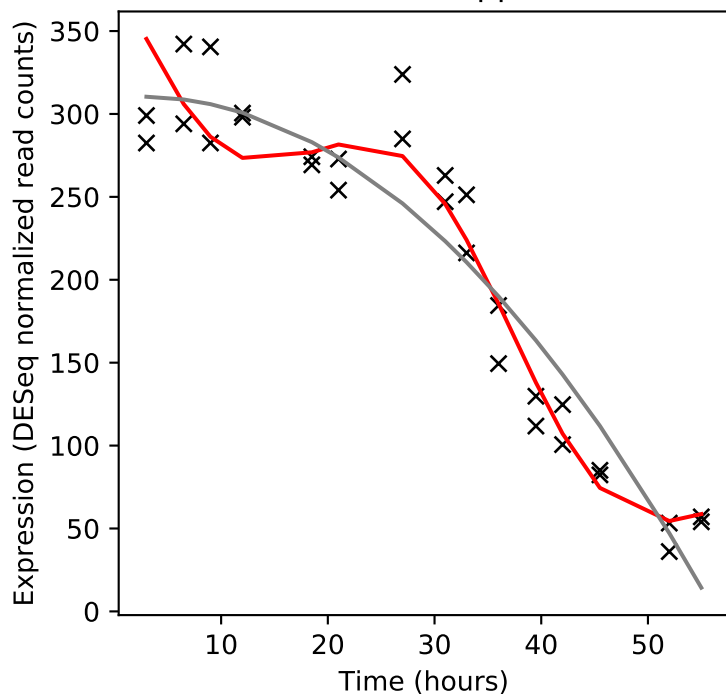
Rv1279/-



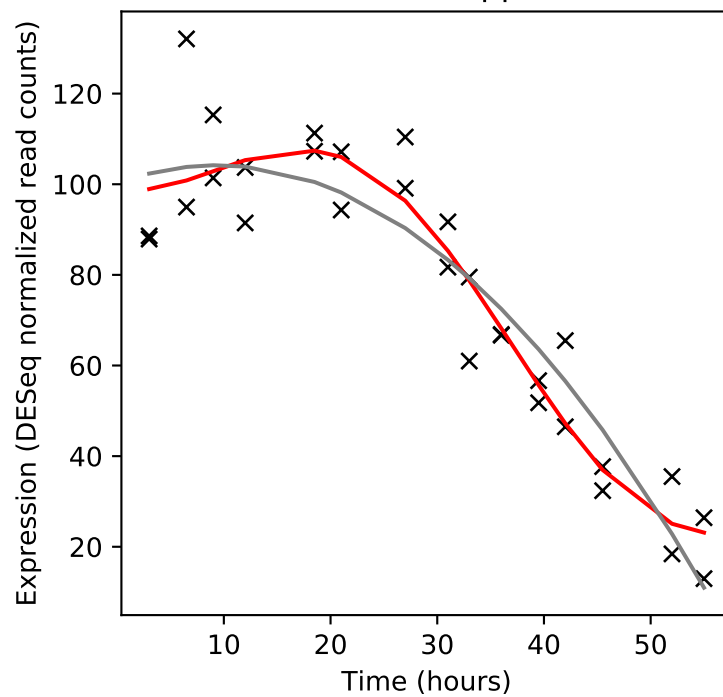
Rv1280c/oppA



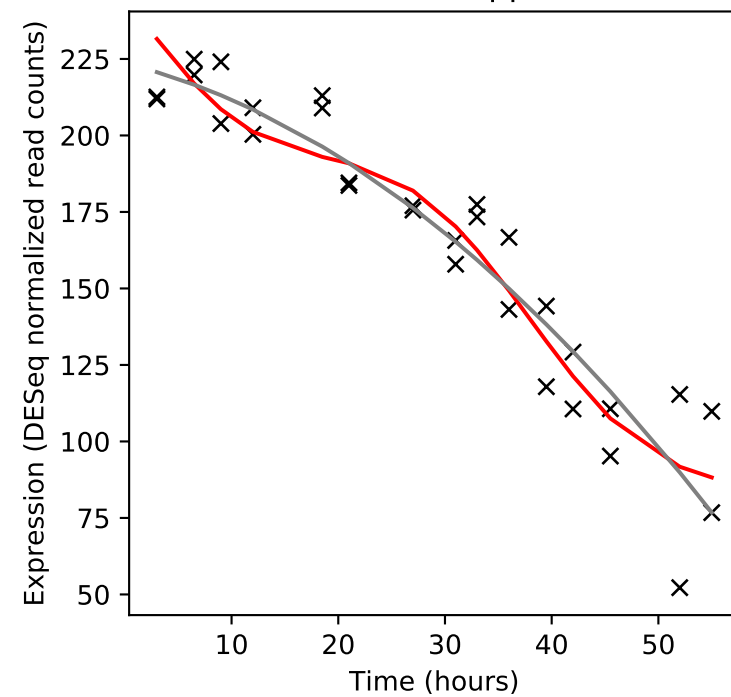
Rv1281c/oppD



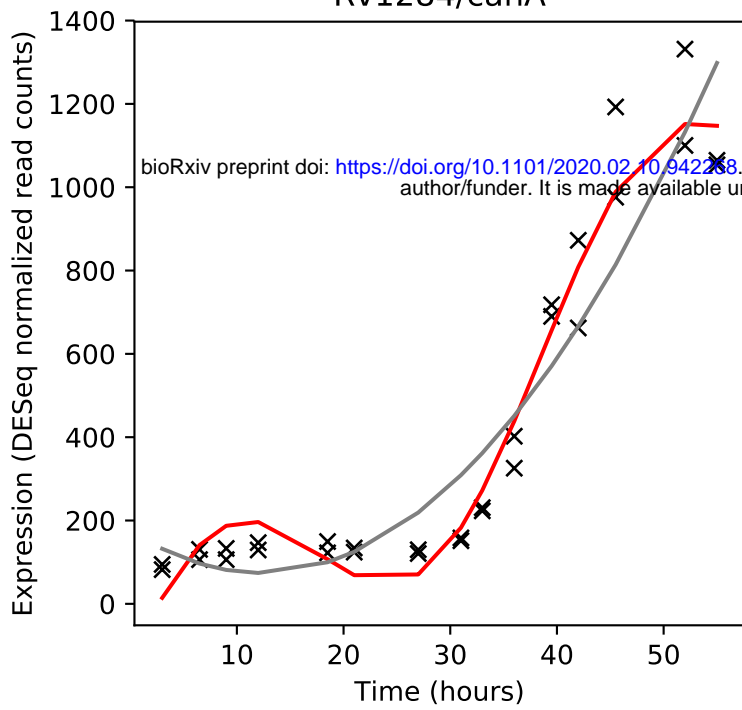
Rv1282c/oppC



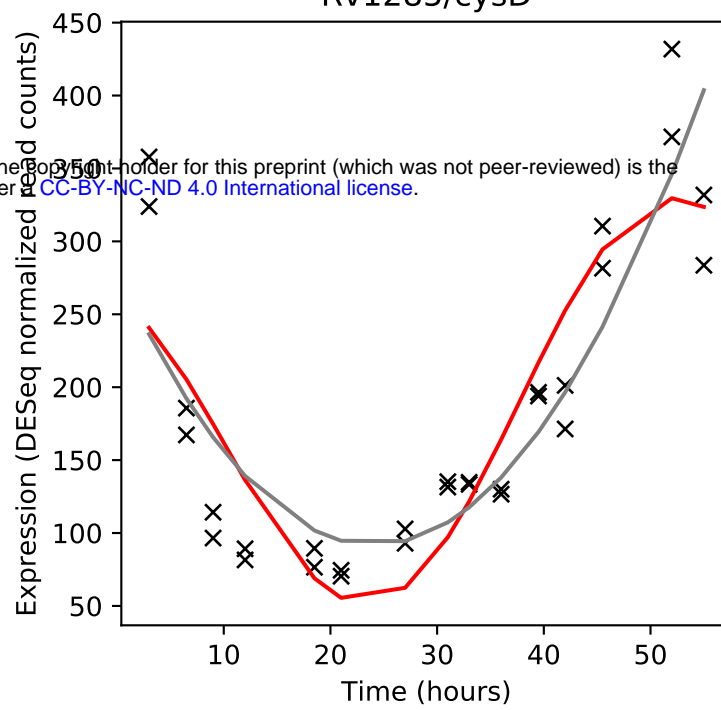
Rv1283c/oppB



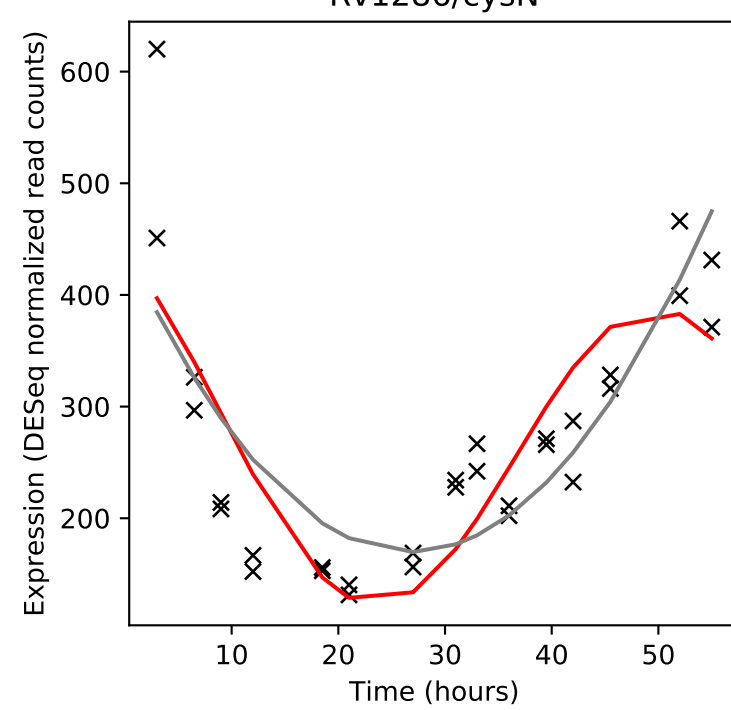
Rv1284/canA



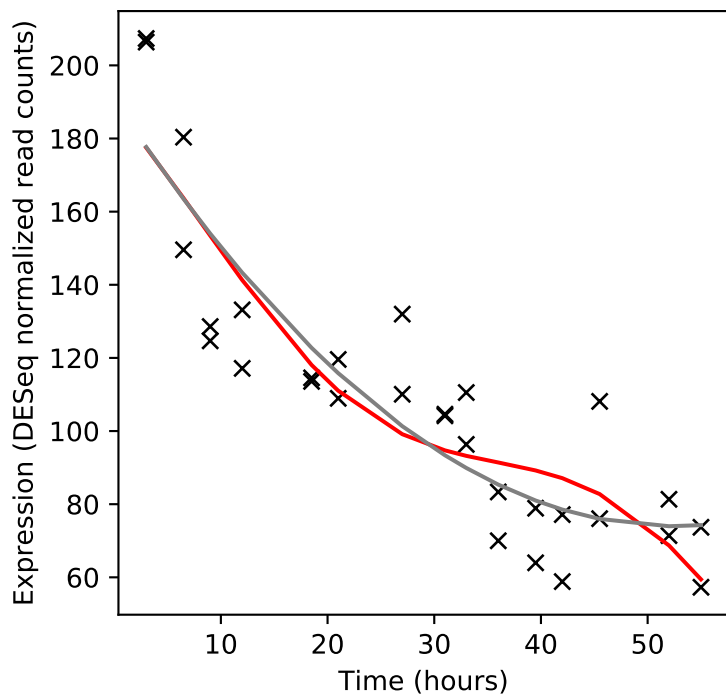
Rv1285/cysD



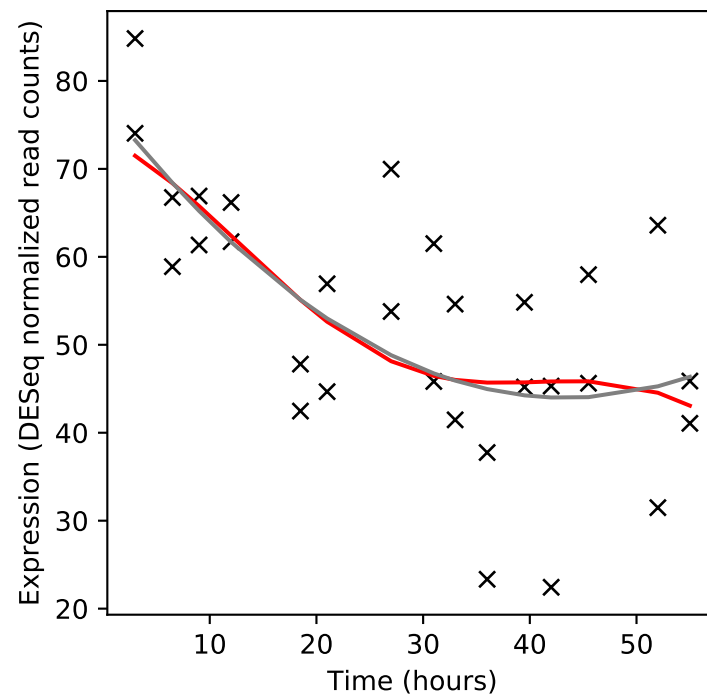
Rv1286/cysN



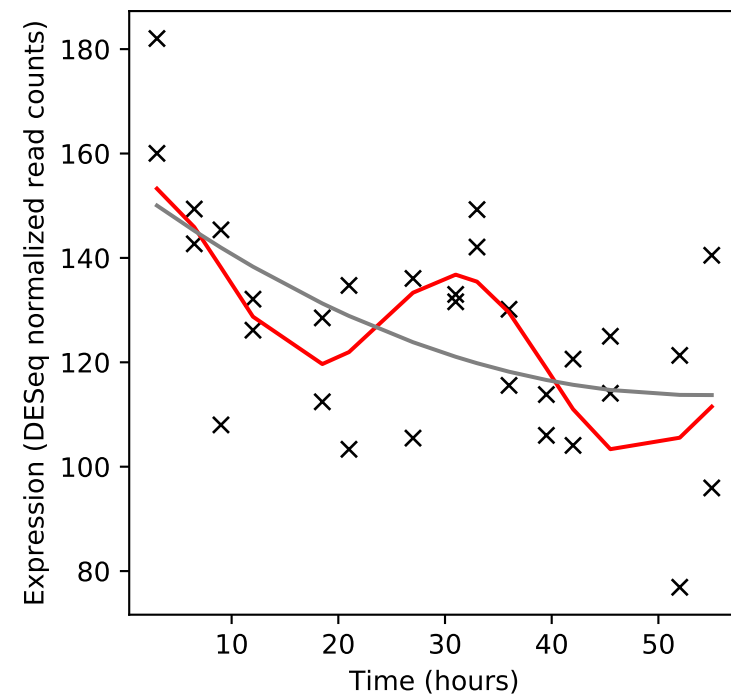
Rv1287/-



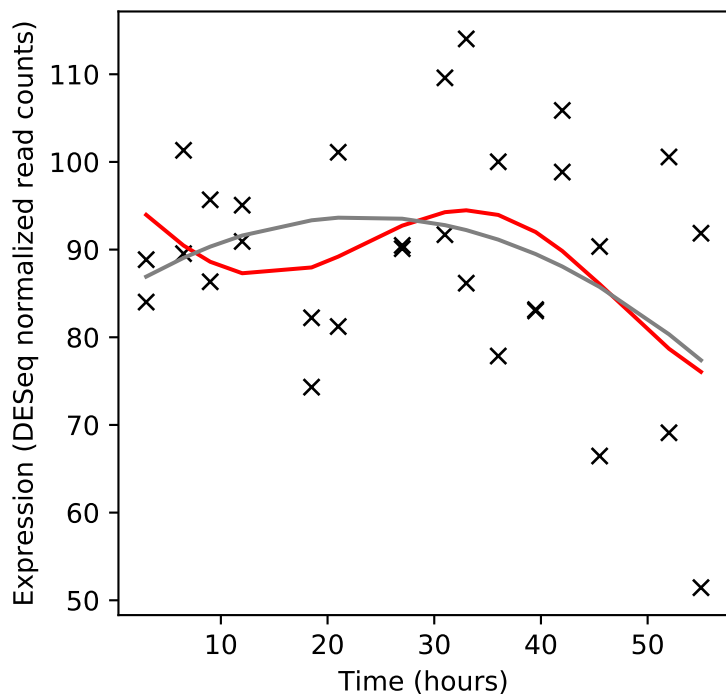
Rv1288/-



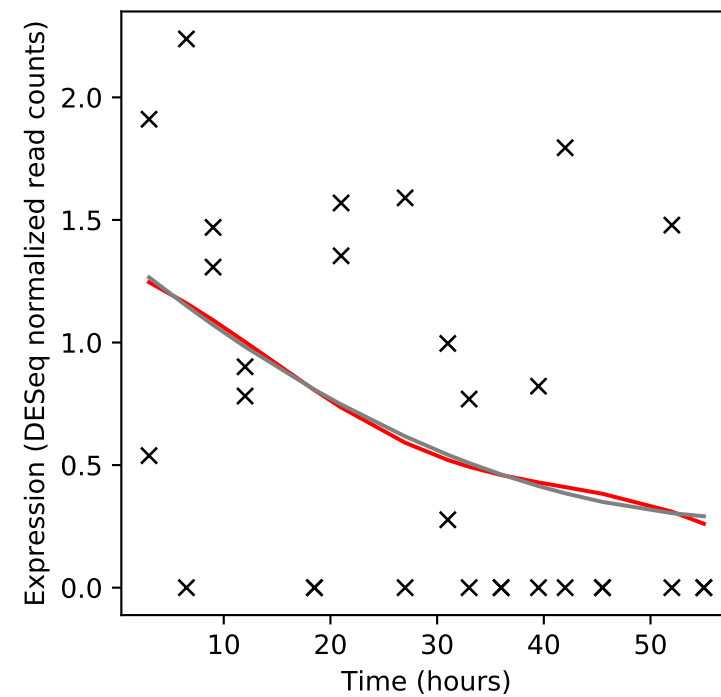
Rv1289/-



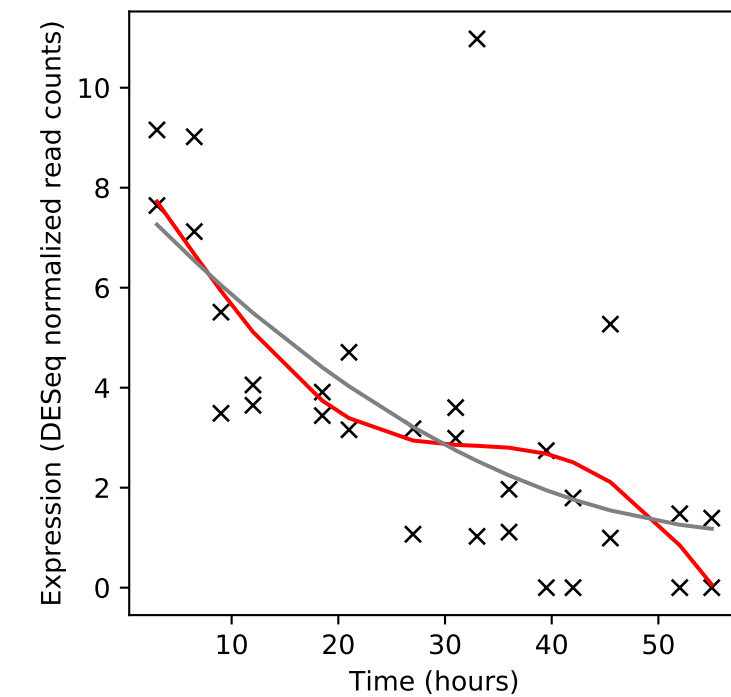
Rv1290c/-



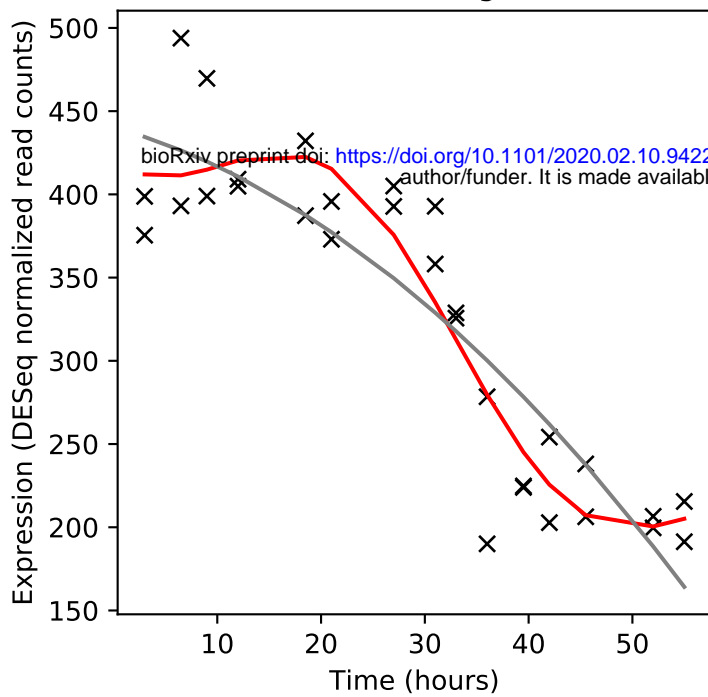
Rv1290A/-



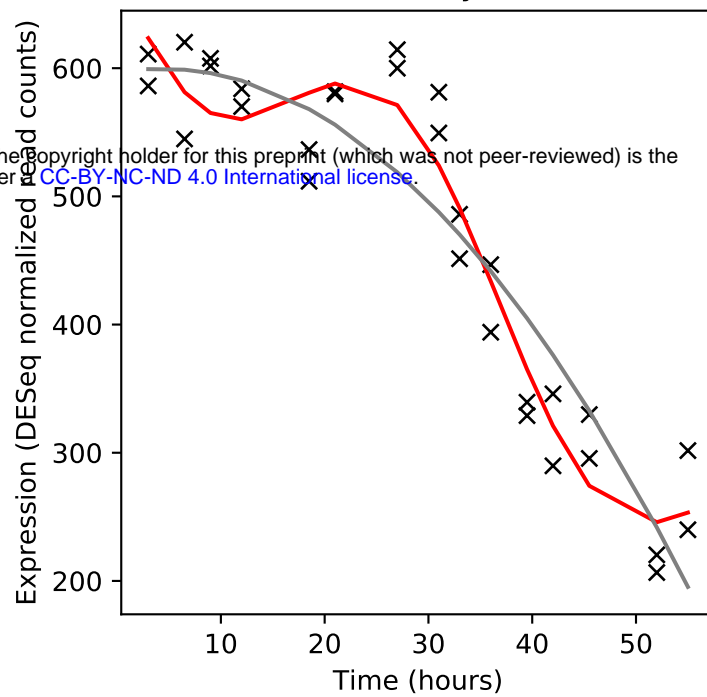
Rv1291c/-



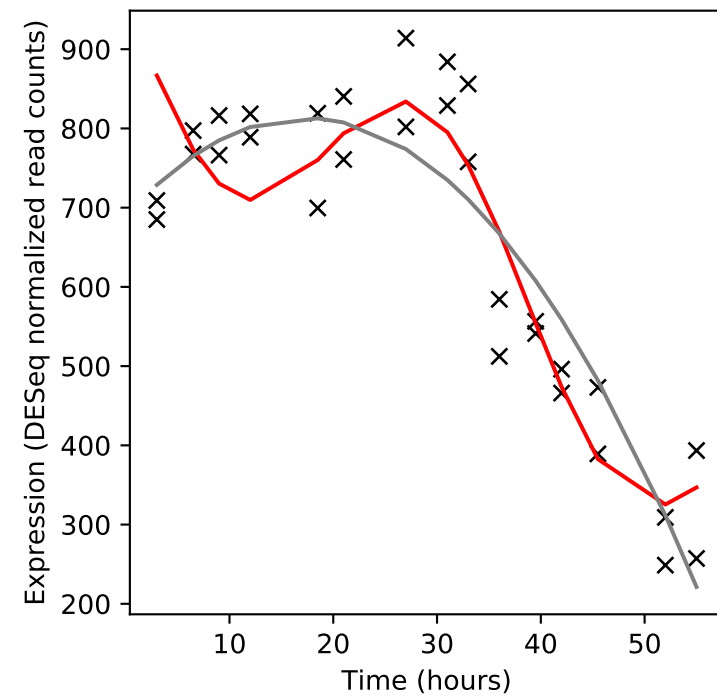
Rv1292/argS



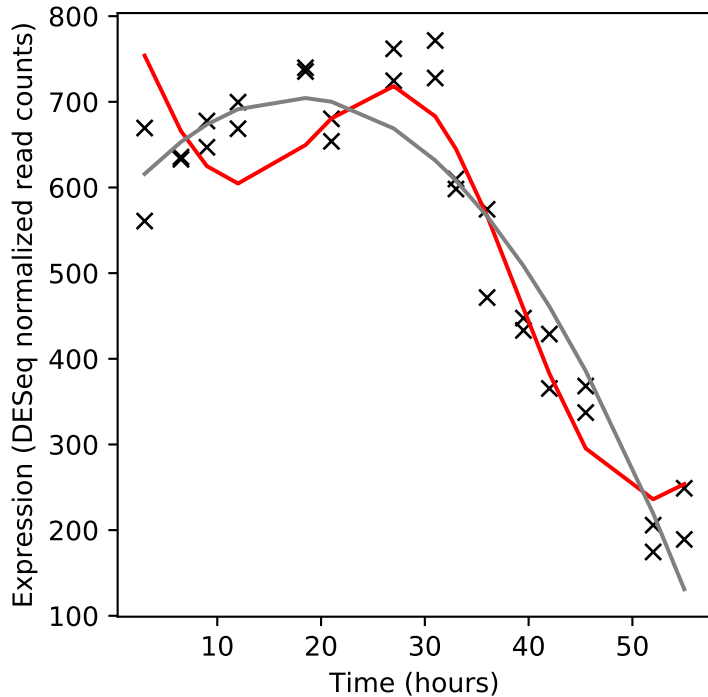
Rv1293/lysA



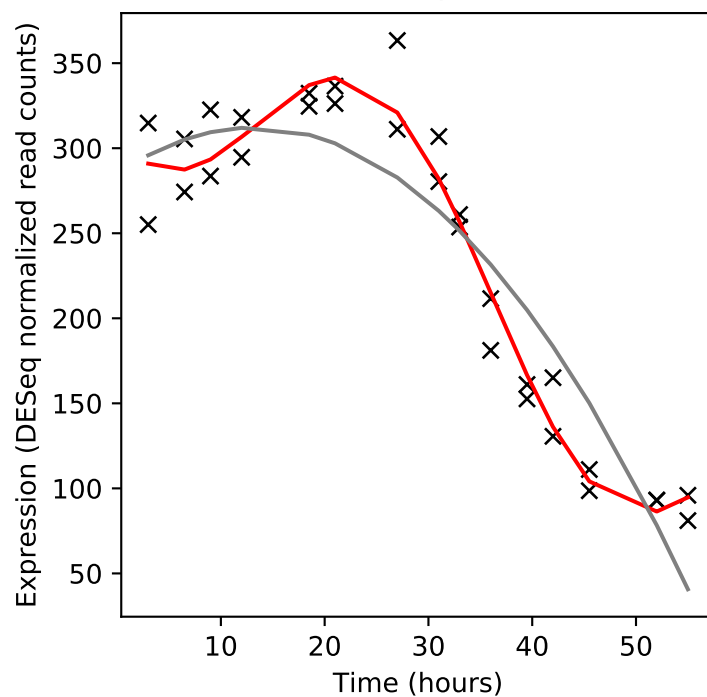
Rv1294/thrA



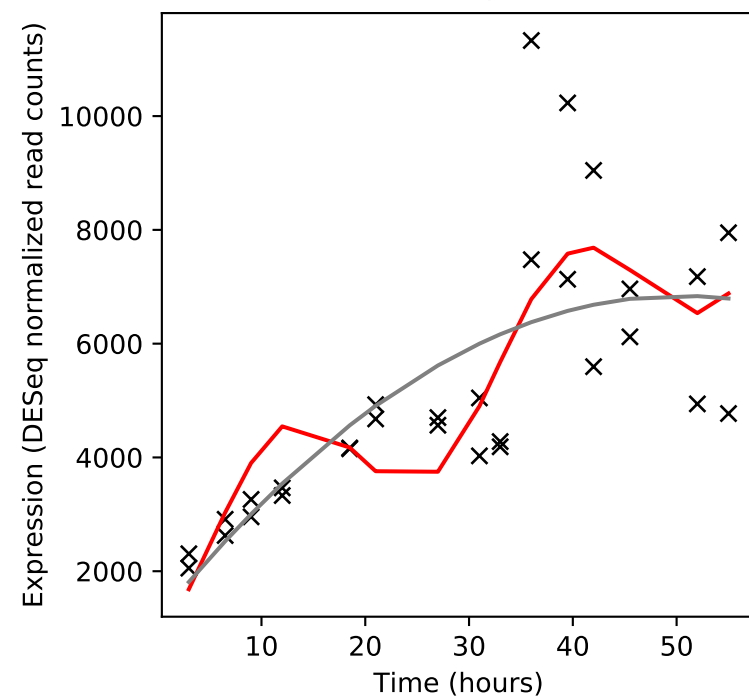
Rv1295/thrC



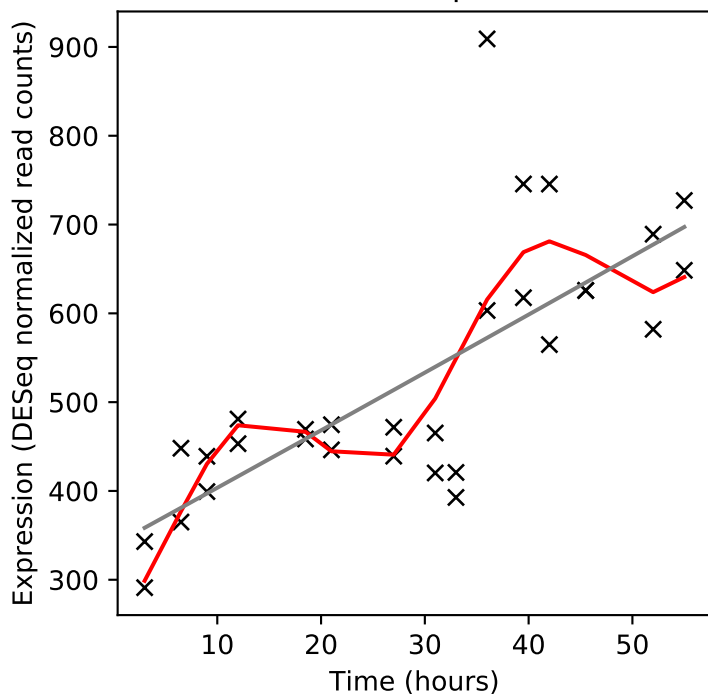
Rv1296/thrB



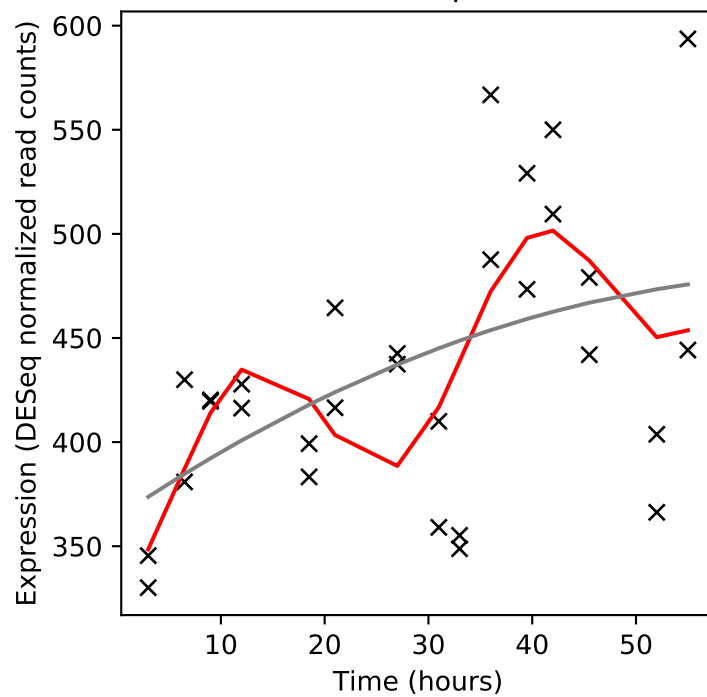
Rv1297/rho



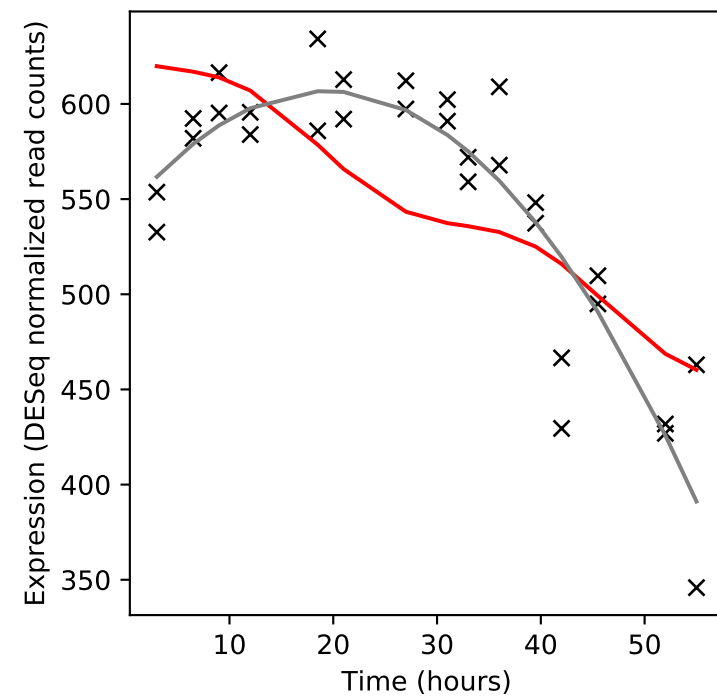
Rv1298/rpmE



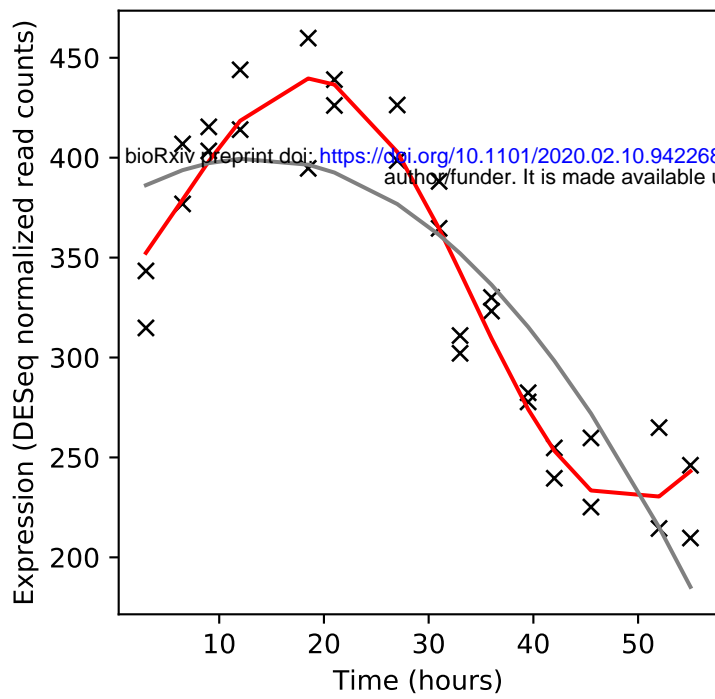
Rv1299/prfA



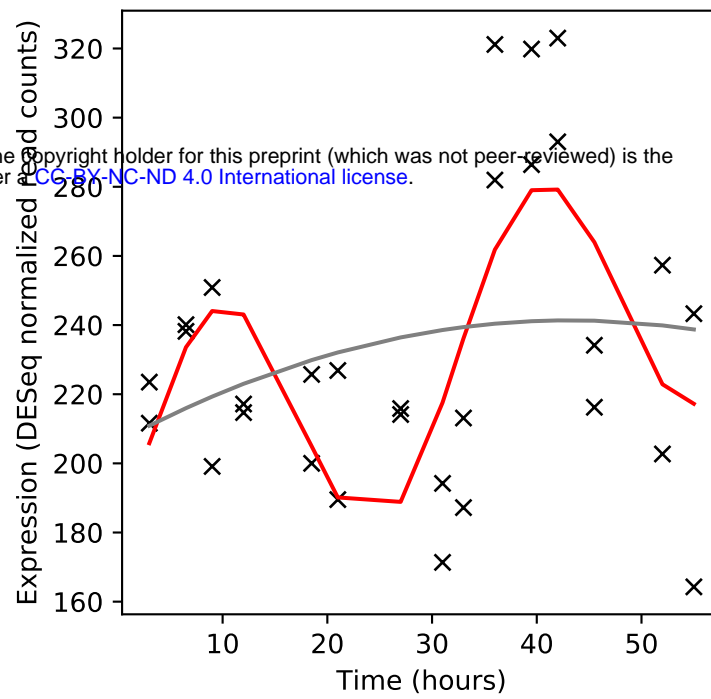
Rv1300/hemK



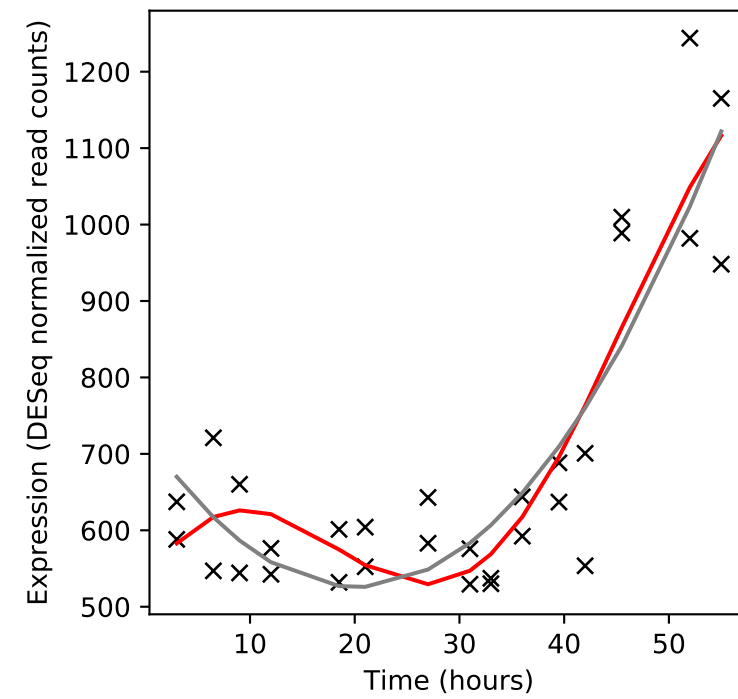
Rv1301/-



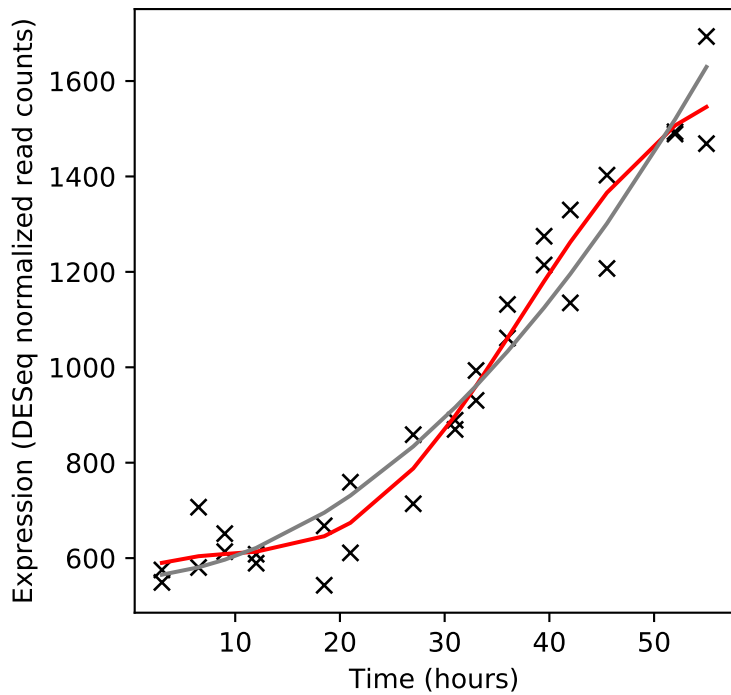
Rv1302/rfe



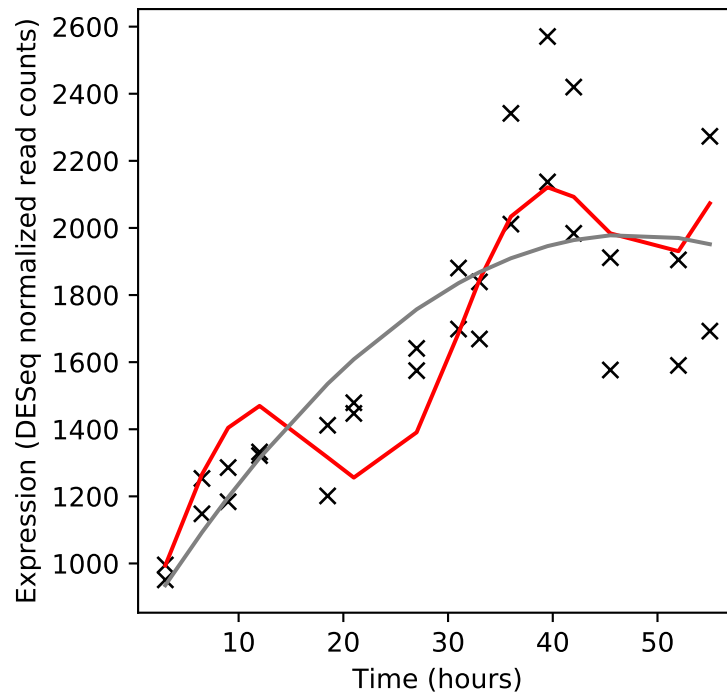
Rv1303/-



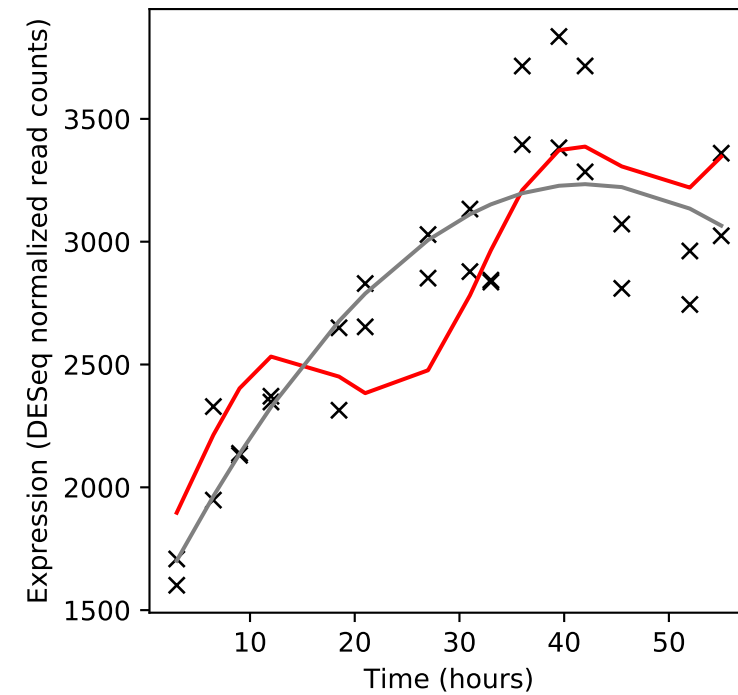
Rv1304/atpB



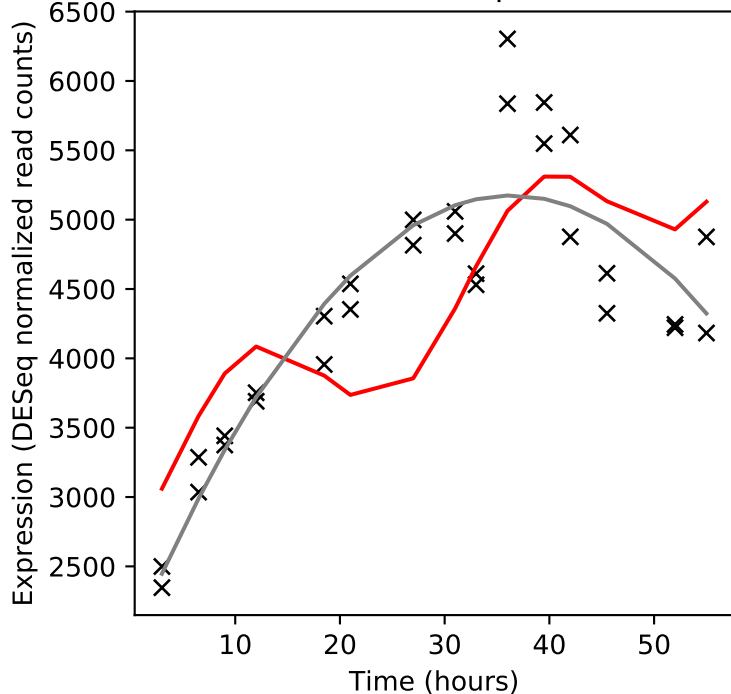
Rv1305/atpE



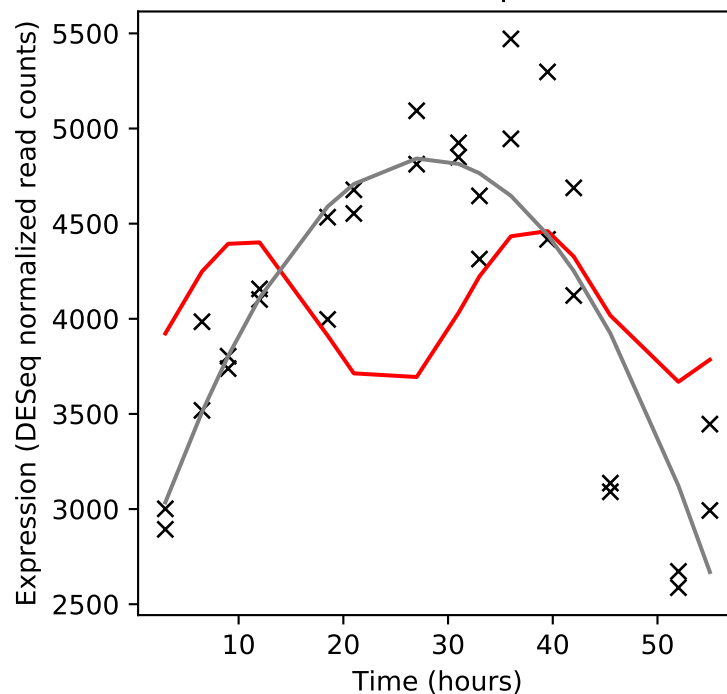
Rv1306/atpF



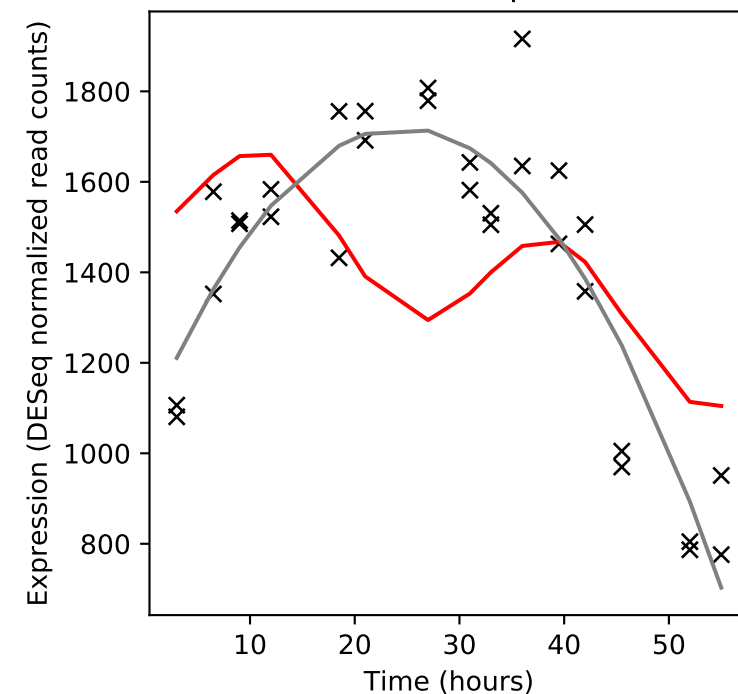
Rv1307/atpH



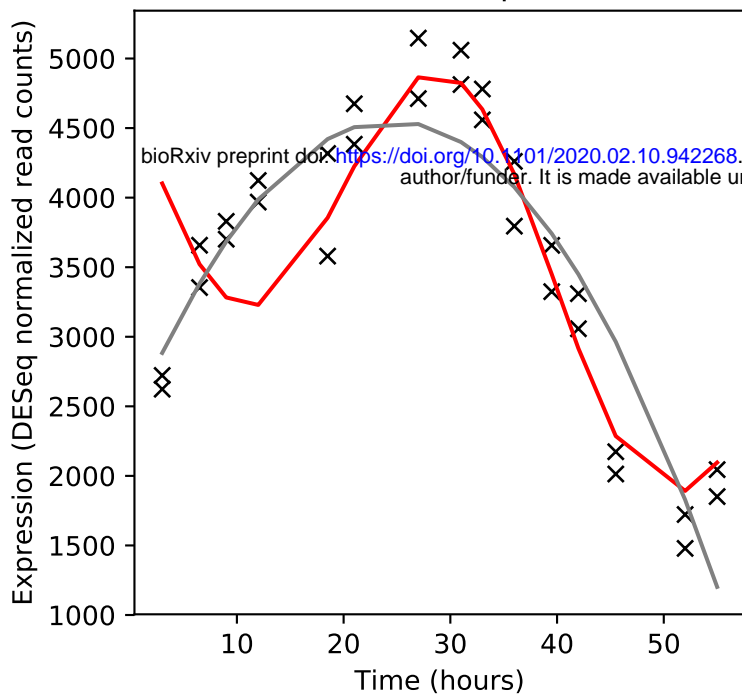
Rv1308/atpA



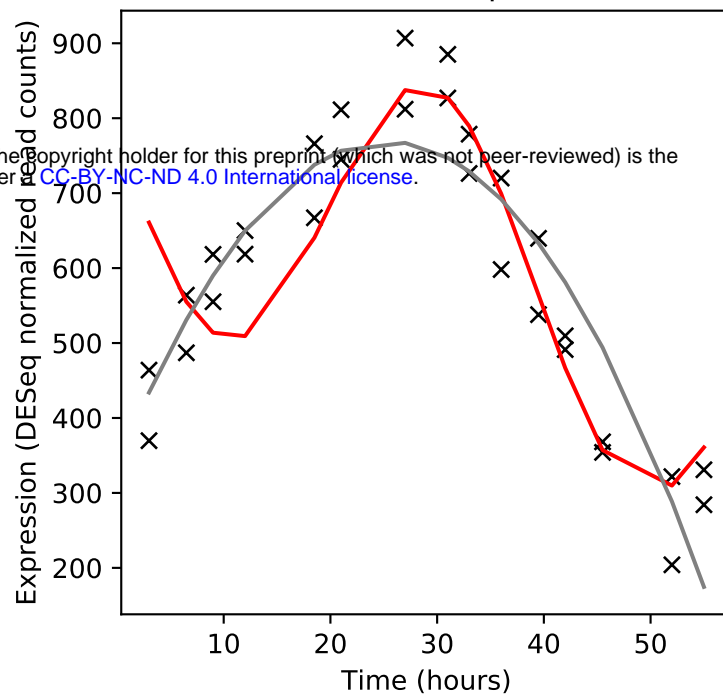
Rv1309/atpG



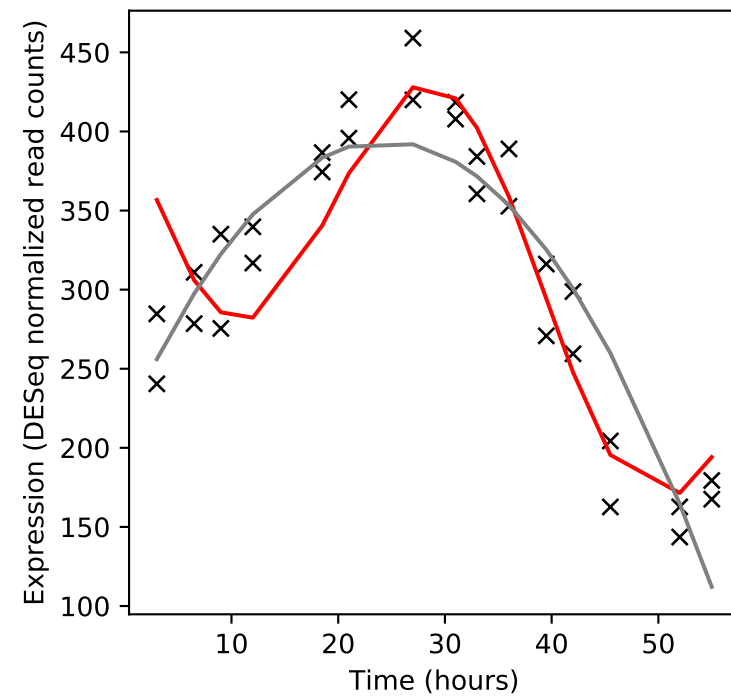
Rv1310/atpD



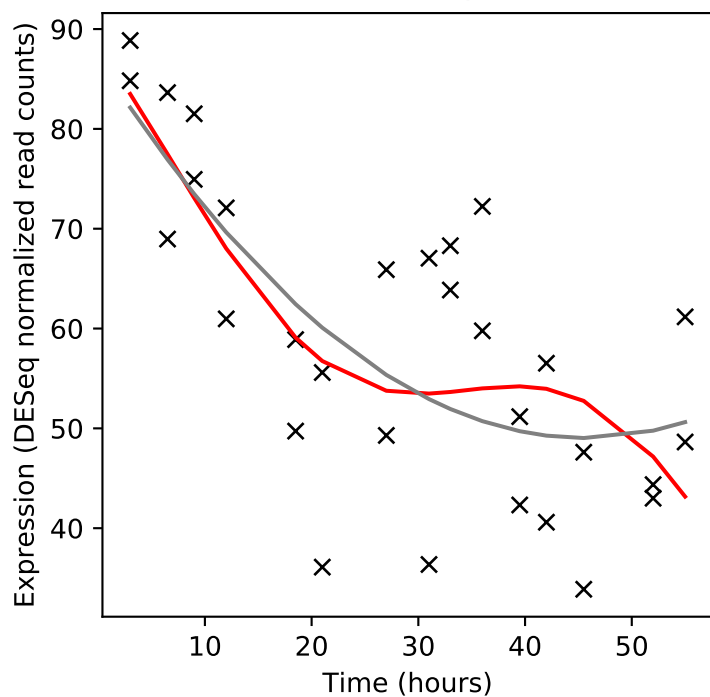
Rv1311/atpC



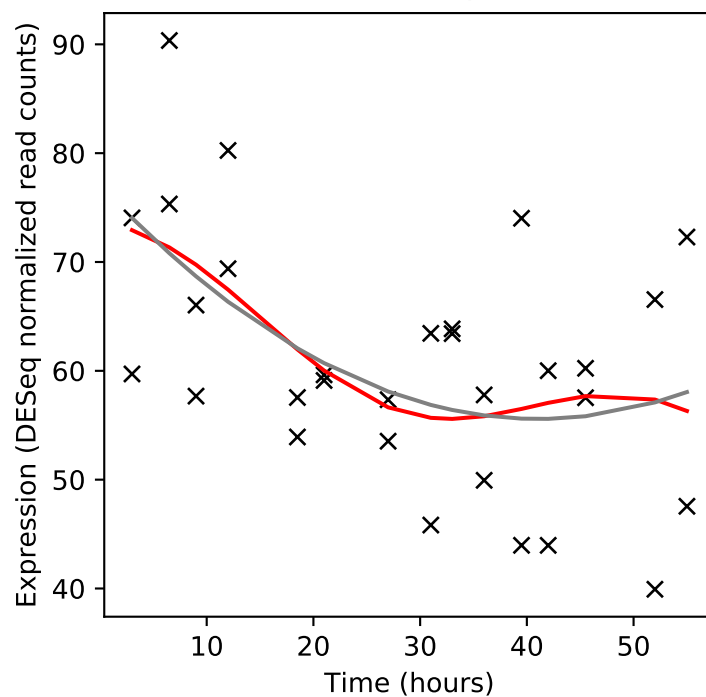
Rv1312/-



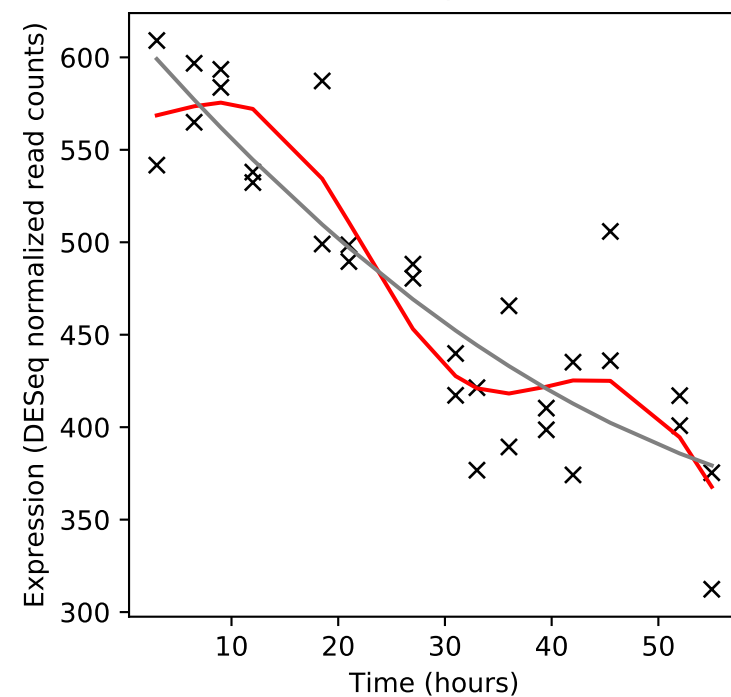
Rv1313c/-



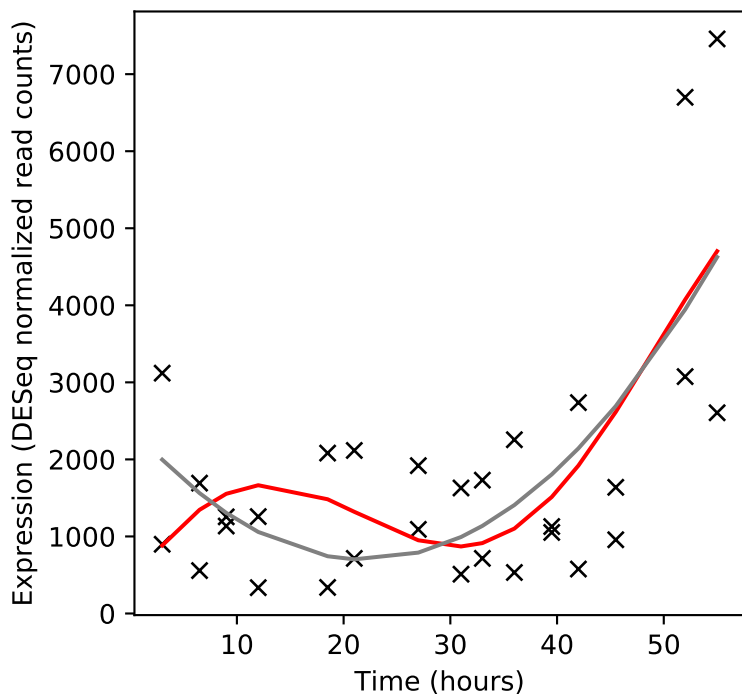
Rv1314c/-



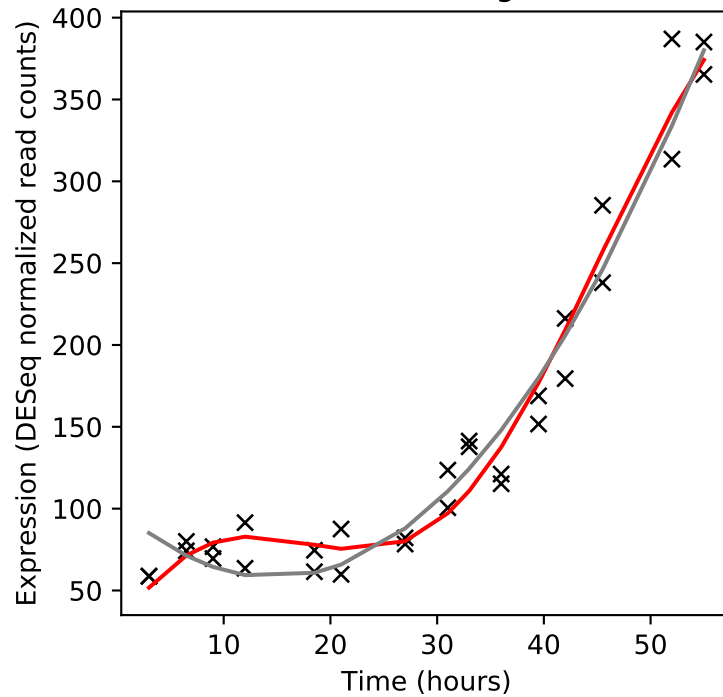
Rv1315/murA



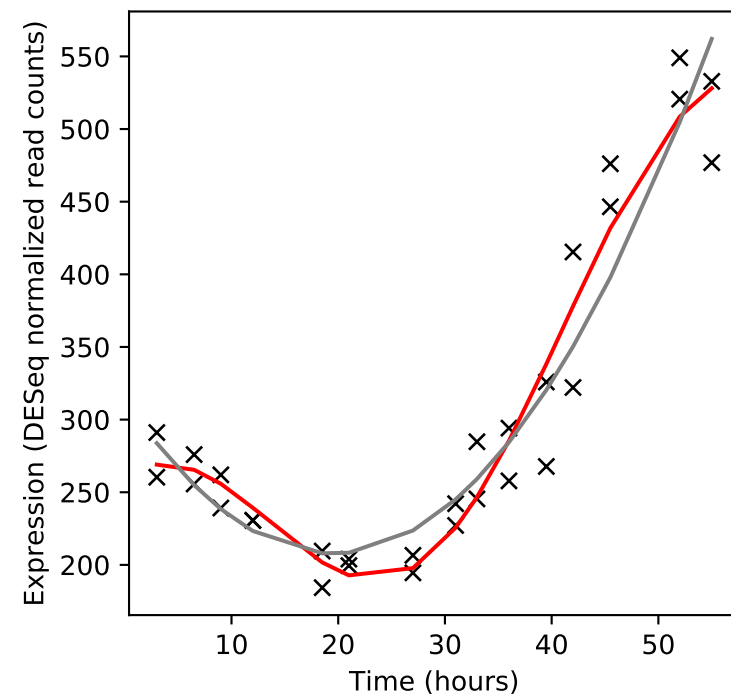
Rvnr01/rrs

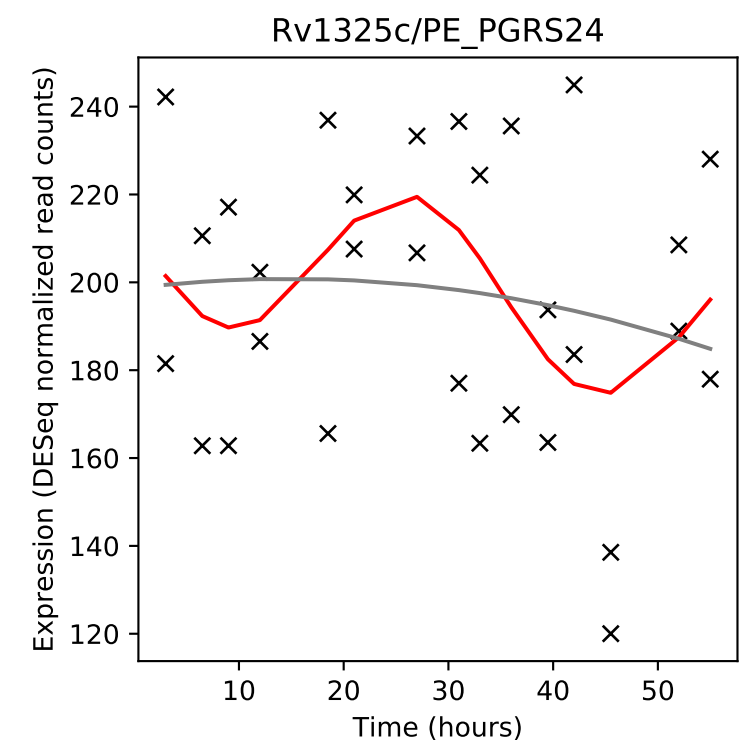
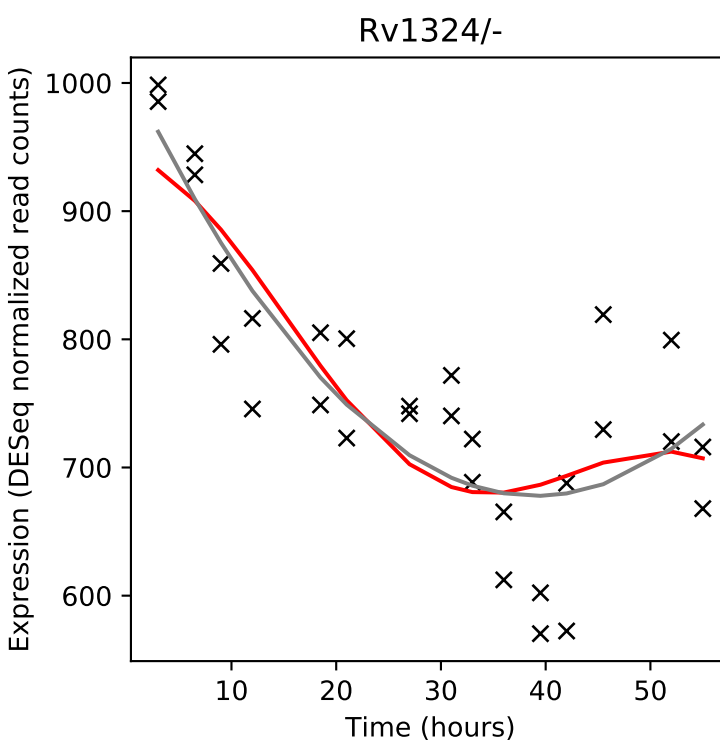
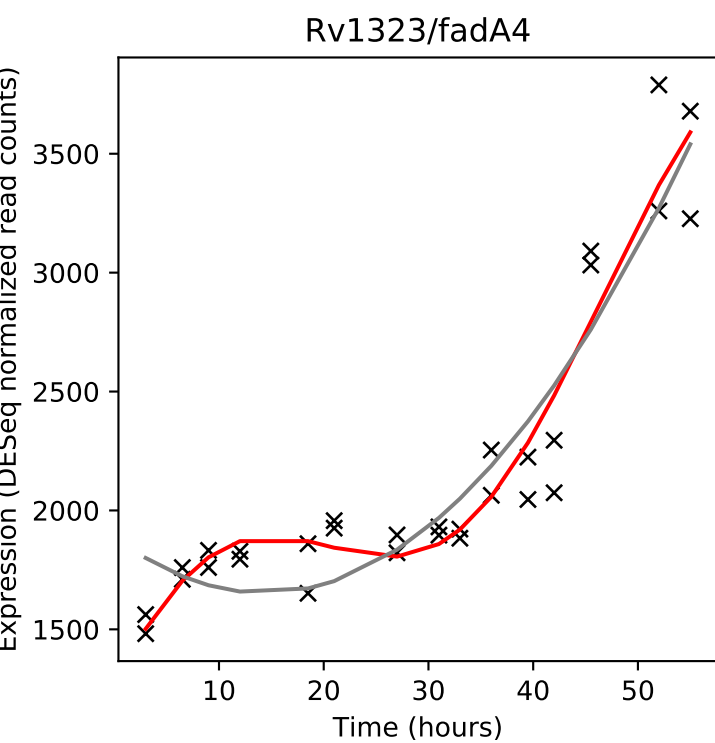
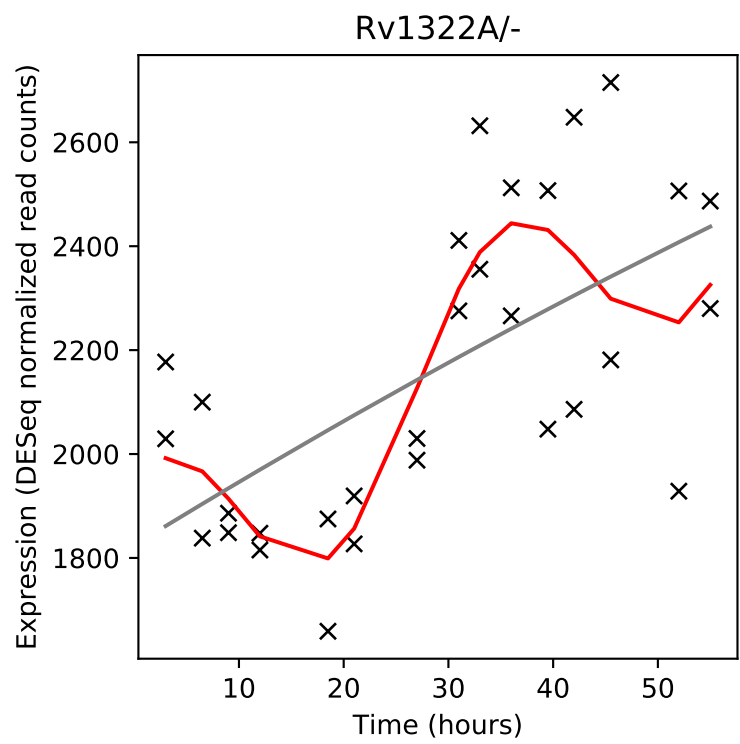
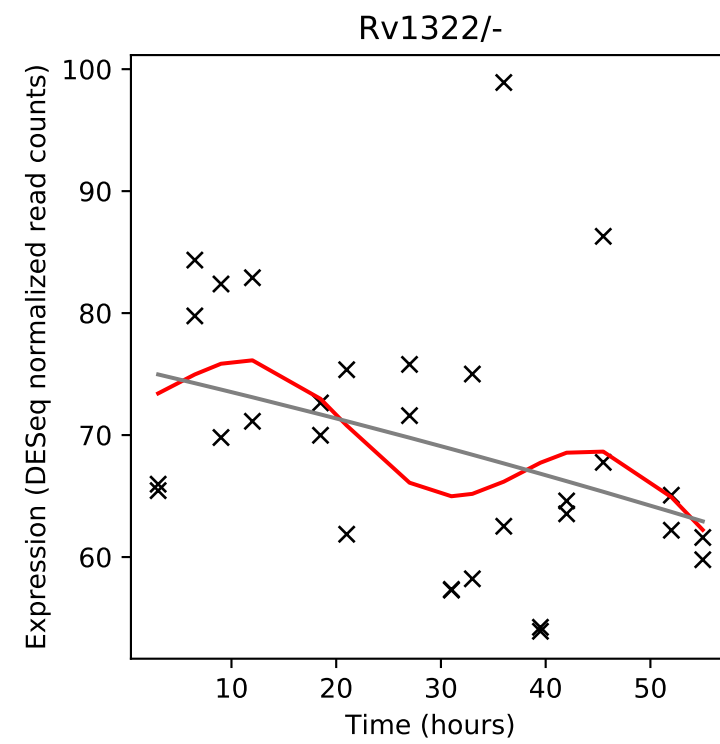
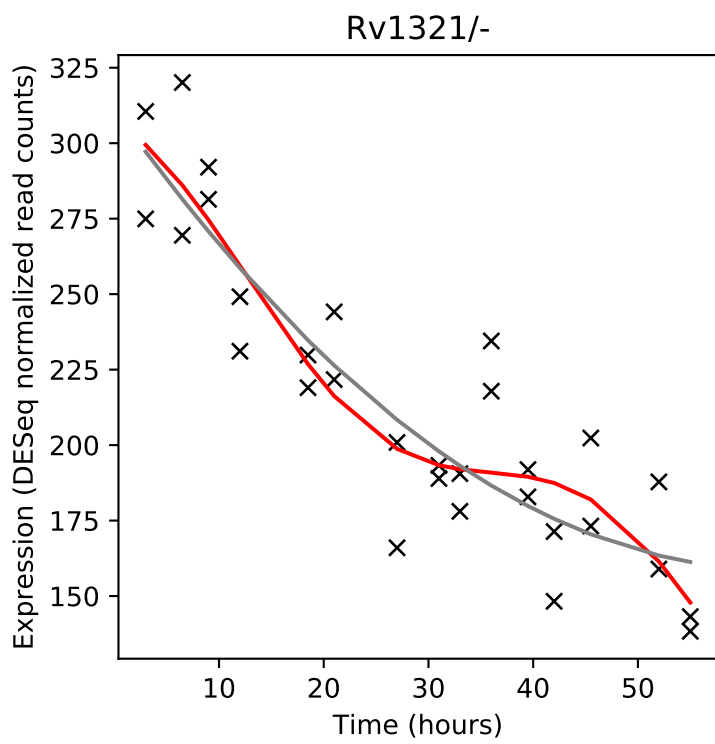
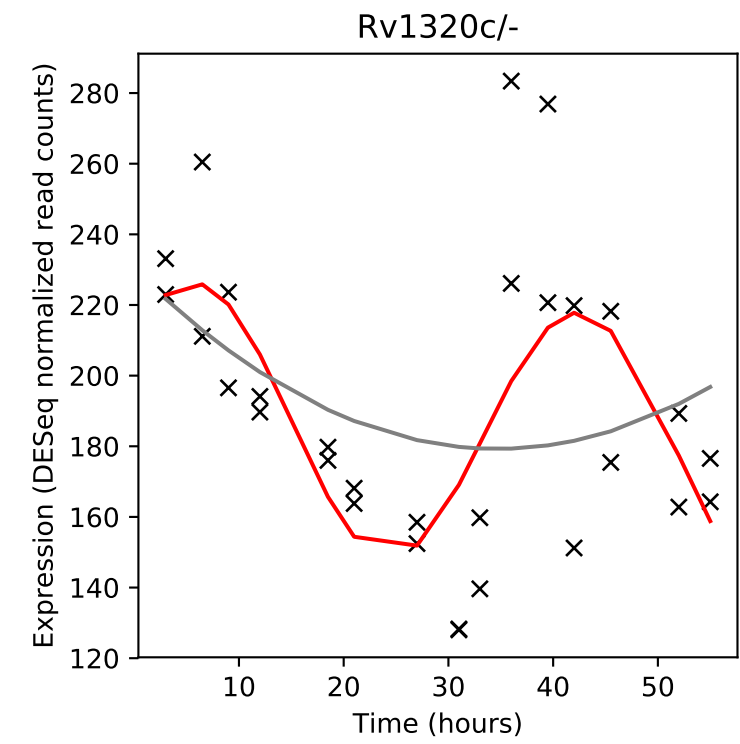
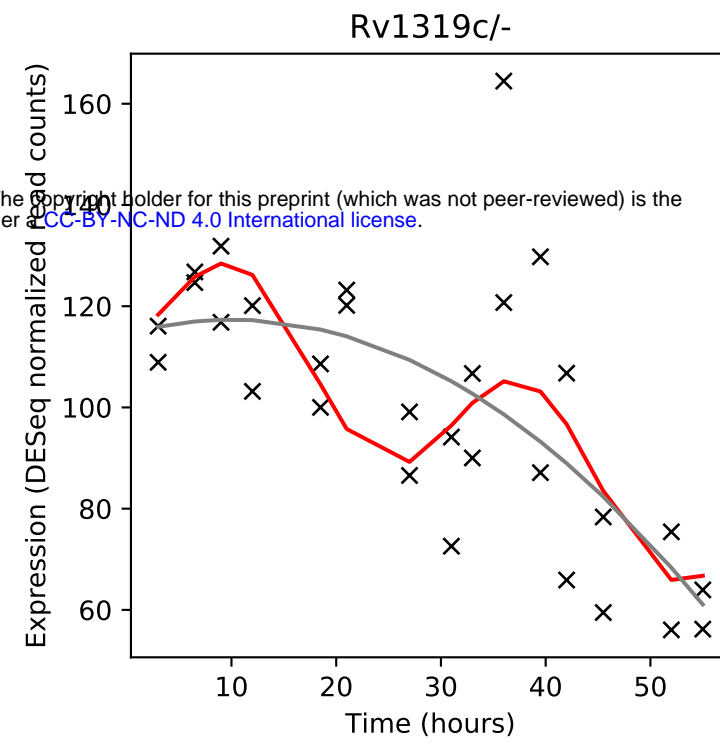
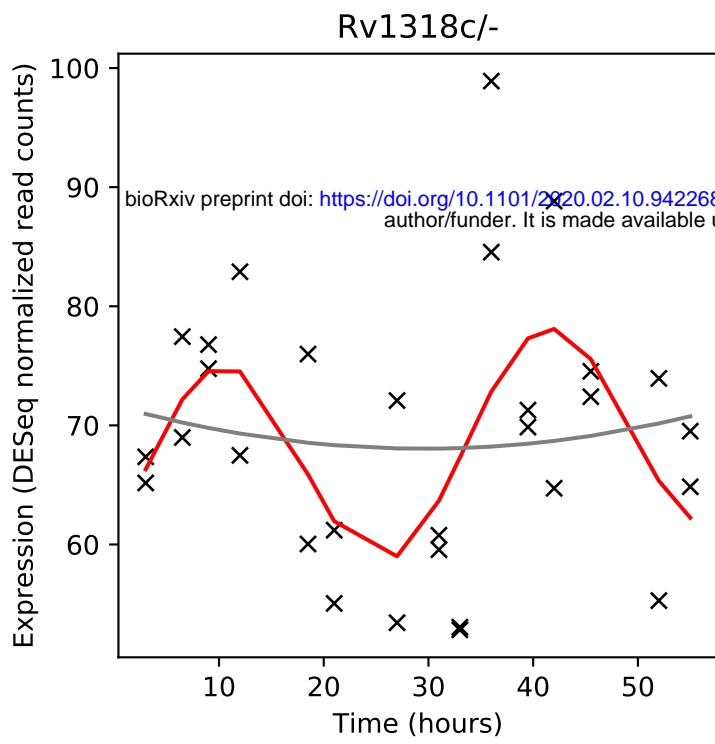


Rv1316c/ogt

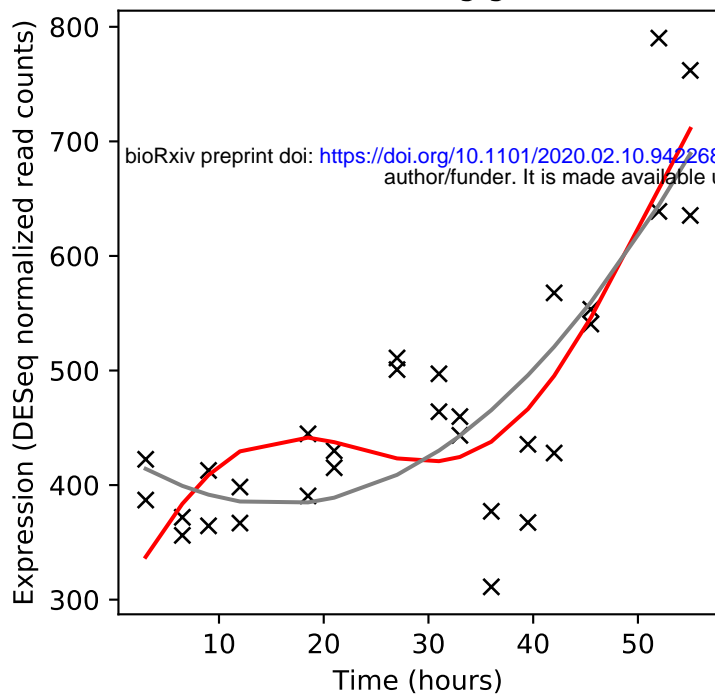


Rv1317c/alkA

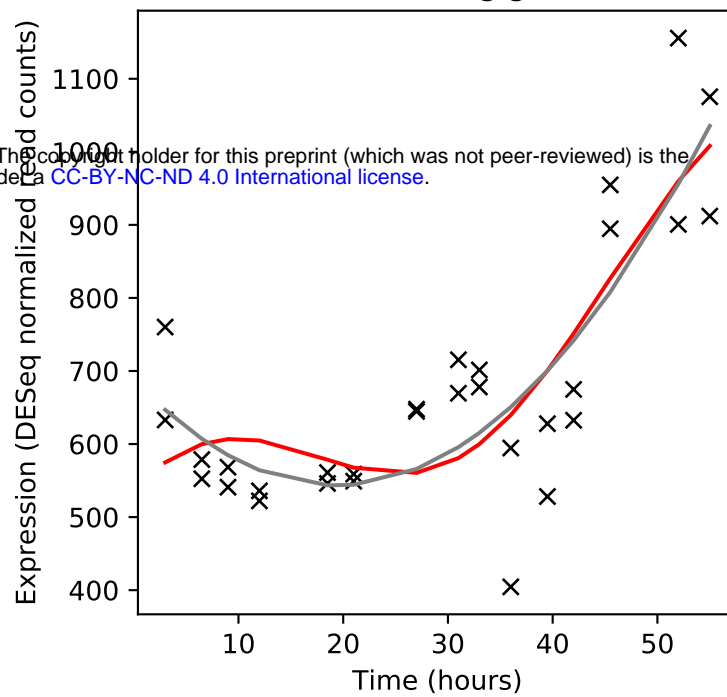




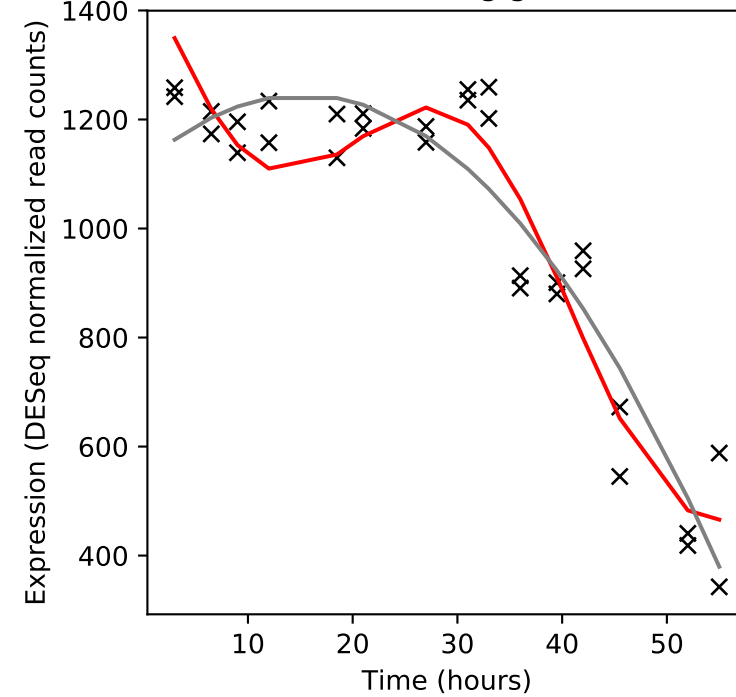
Rv1326c/glgB



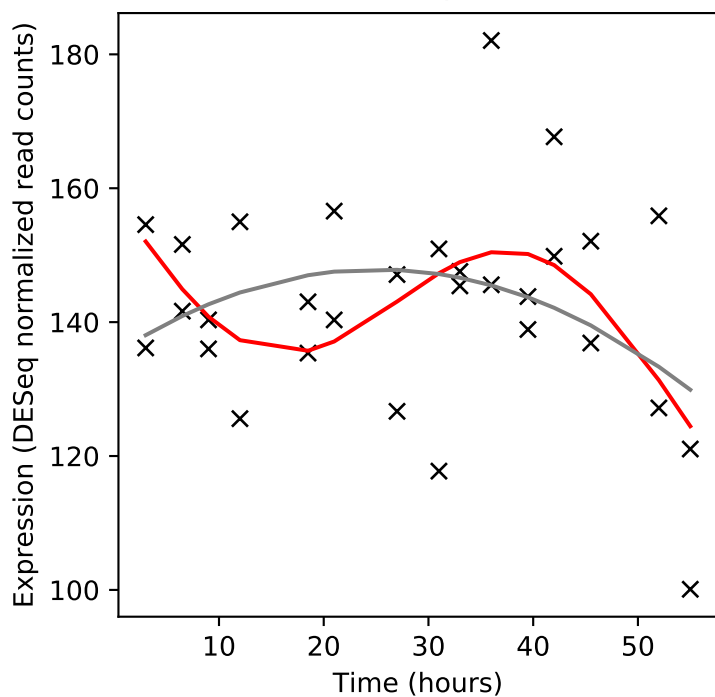
Rv1327c/glgE



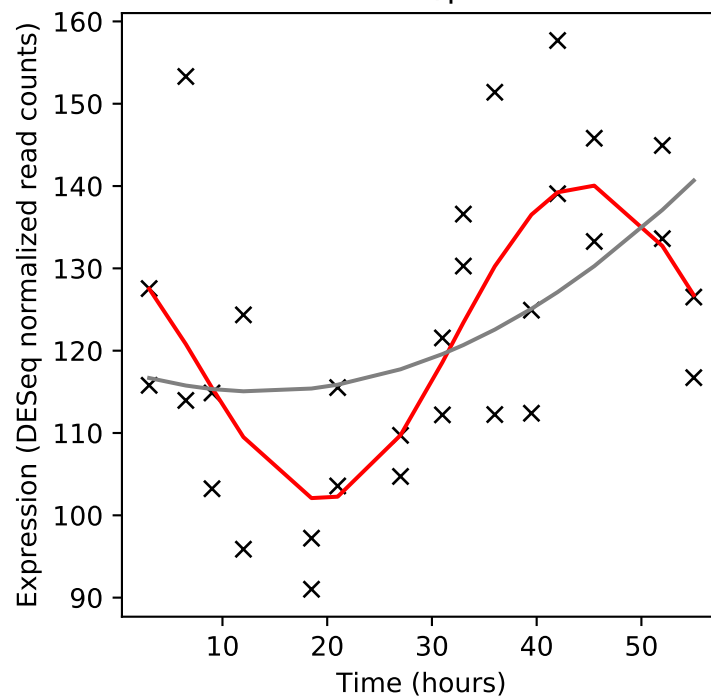
Rv1328c/glgP



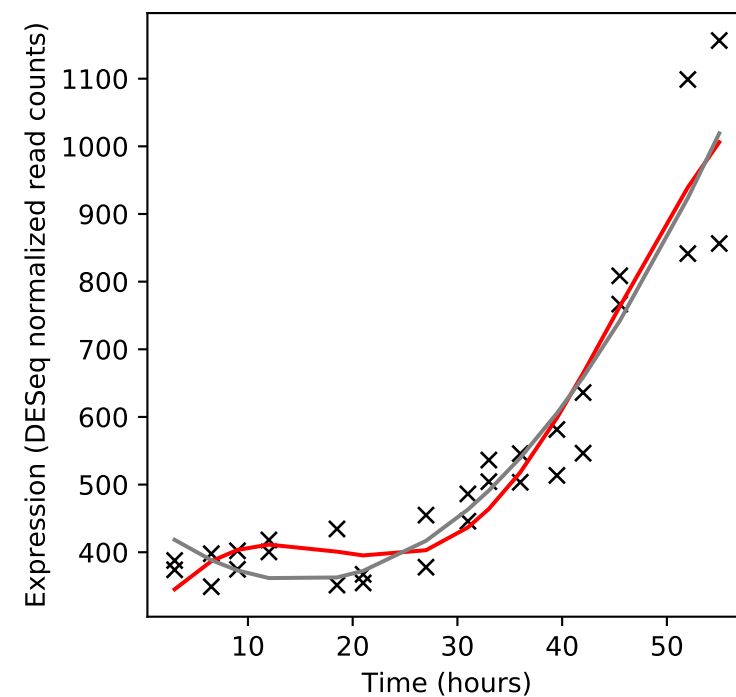
Rv1329c/dinG



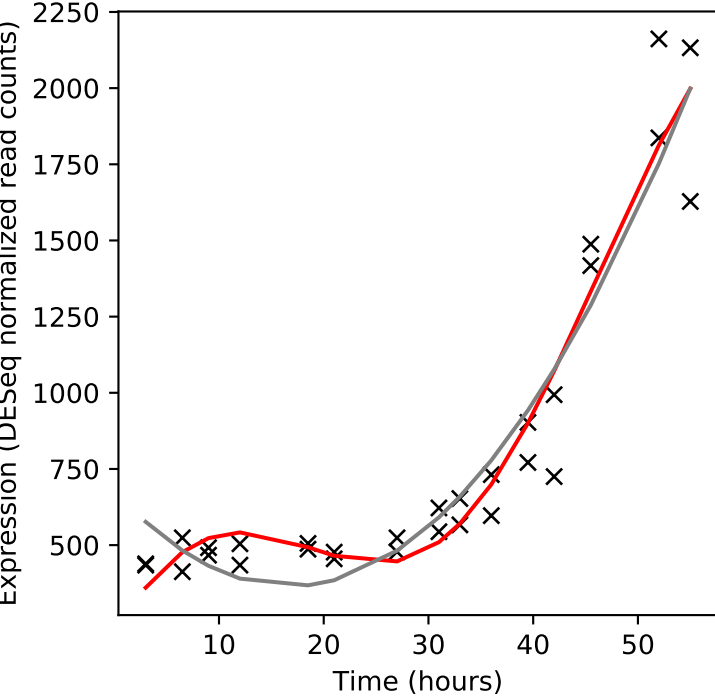
Rv1330c/pncB1



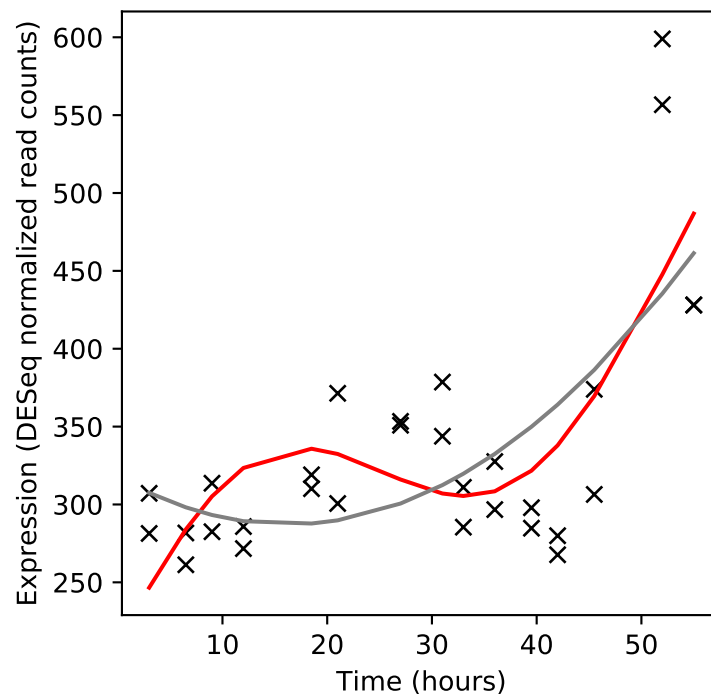
Rv1331/-



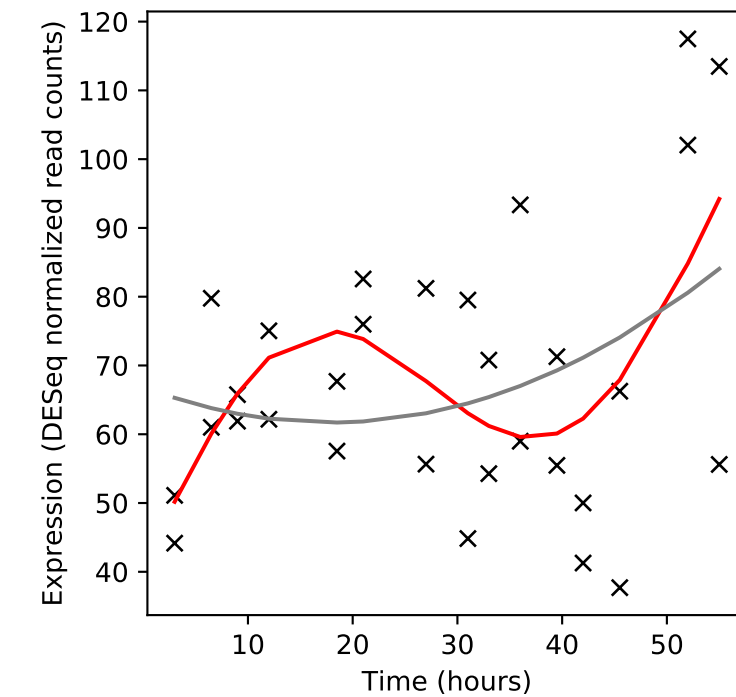
Rv1332/-



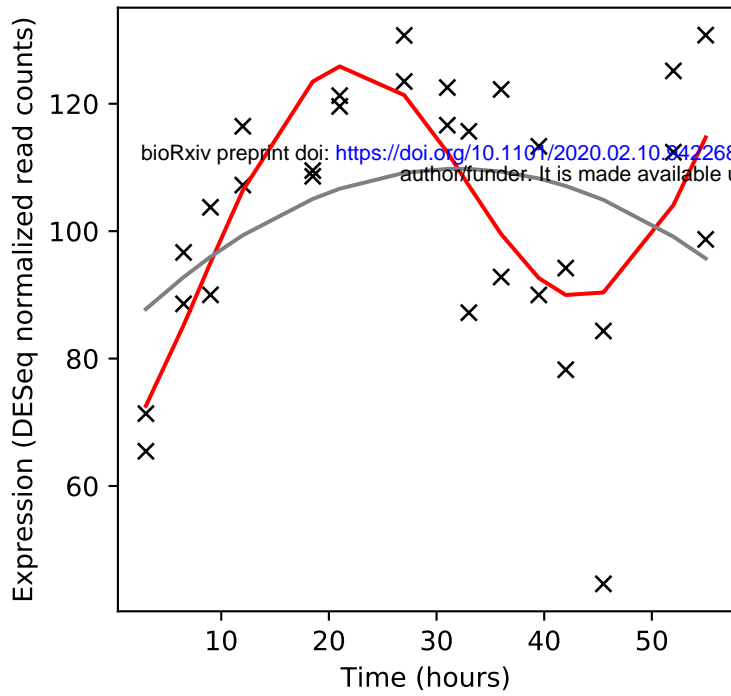
Rv1333/-



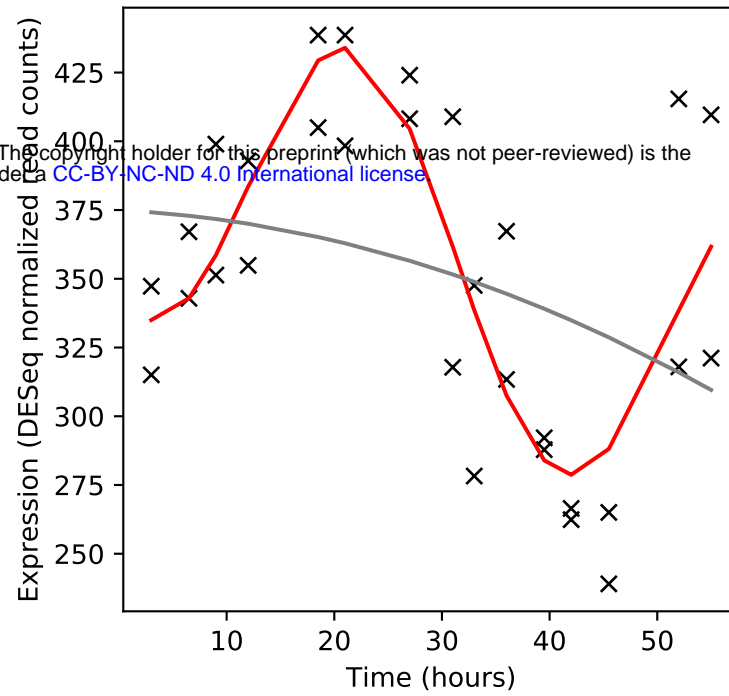
Rv1334/mec



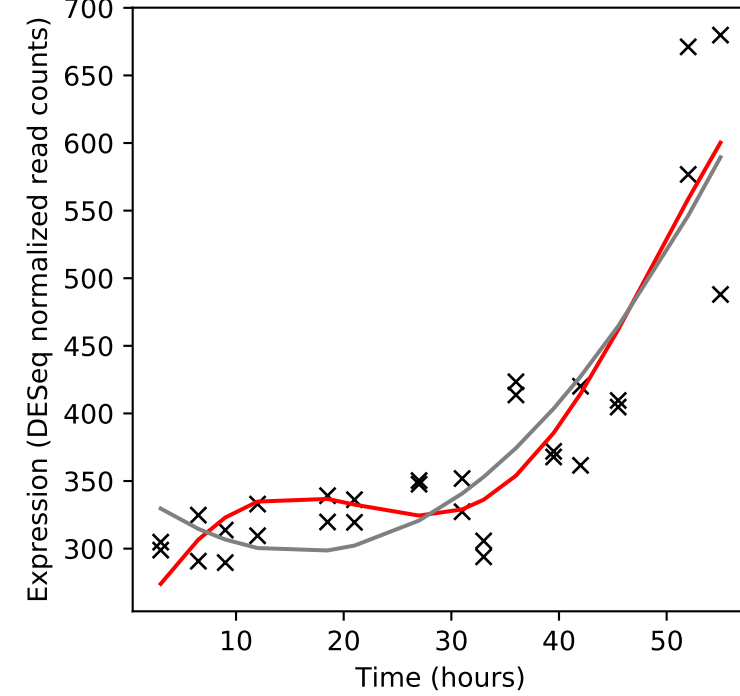
Rv1335/cysO



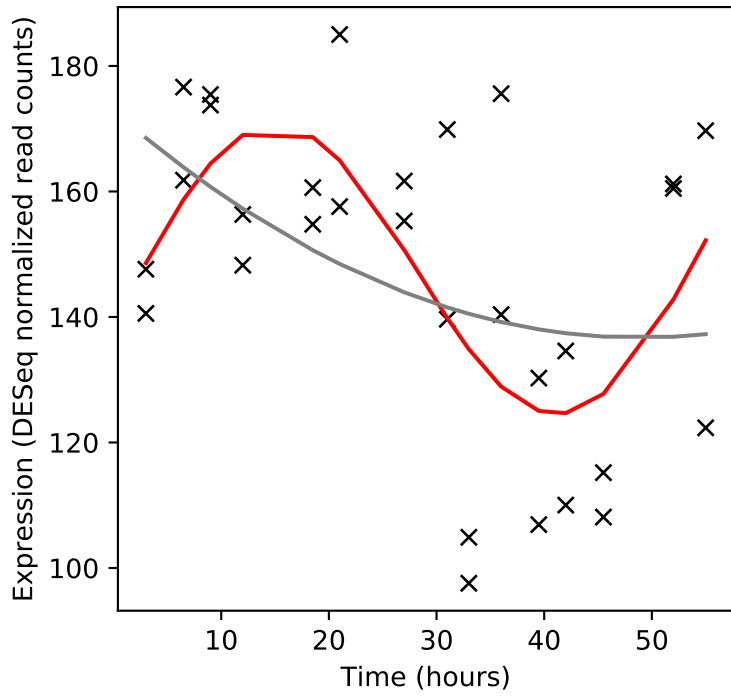
Rv1336/cysM



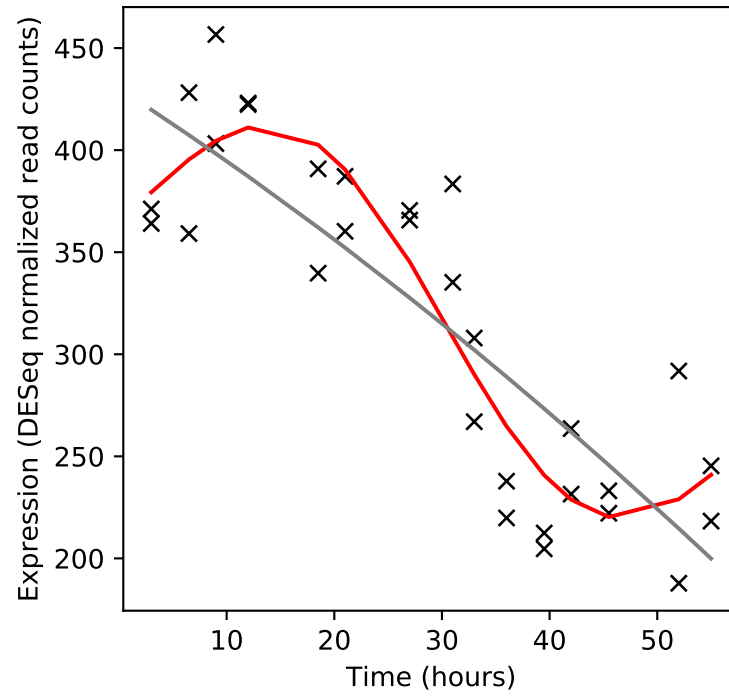
Rv1337/-



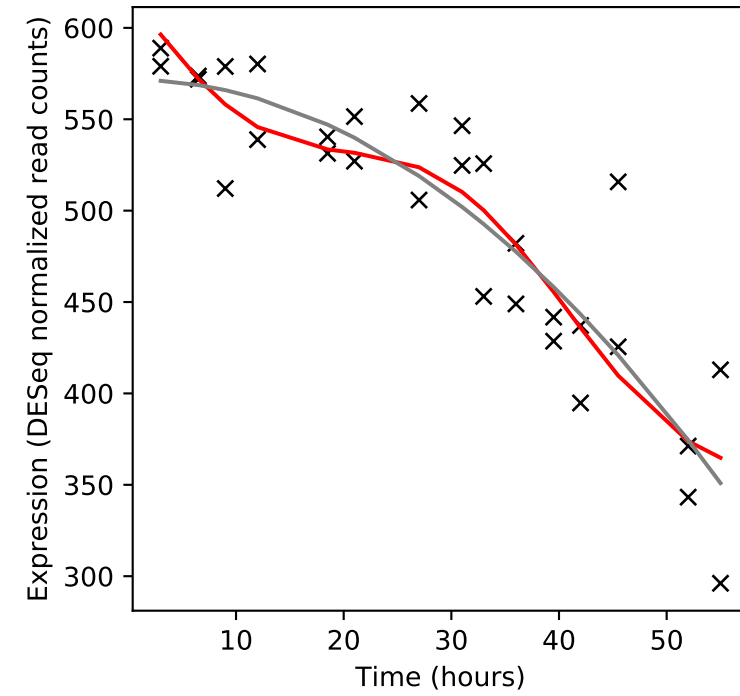
Rv1338/murl



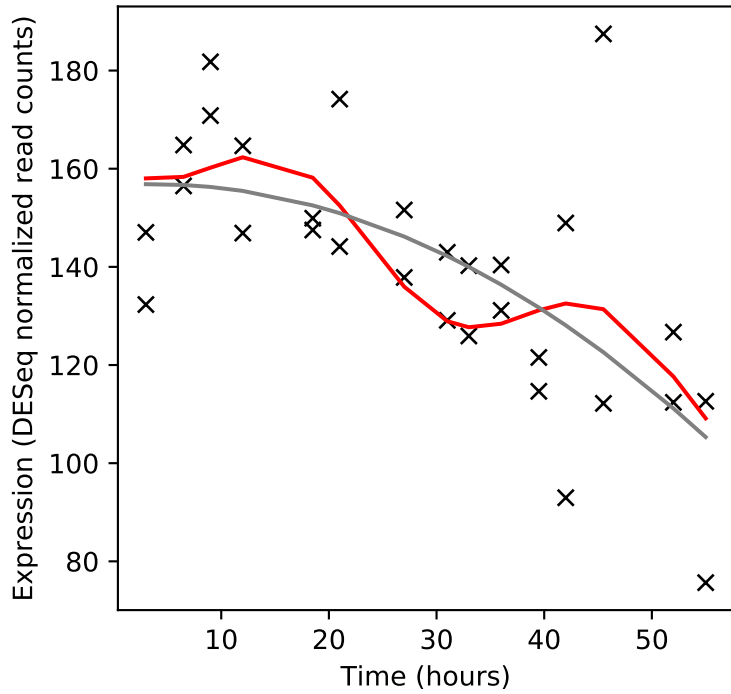
Rv1339/-



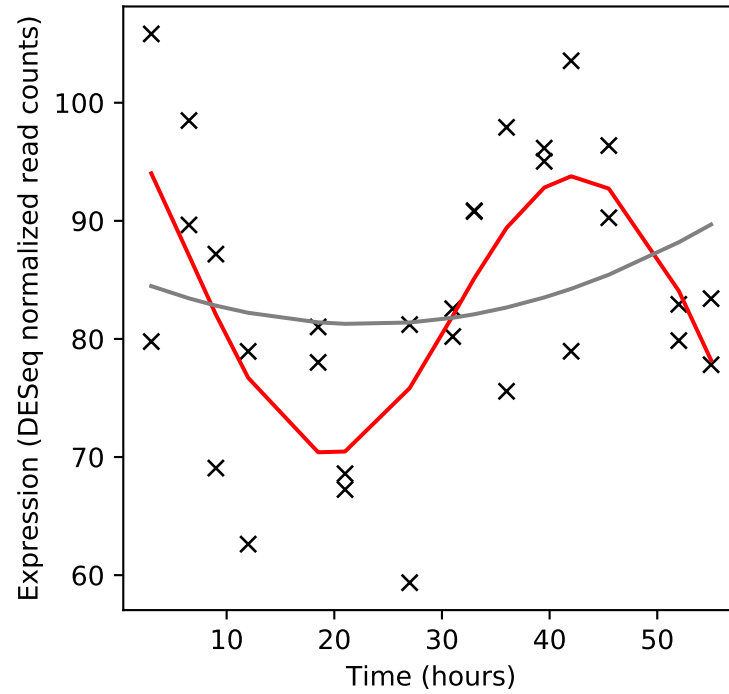
Rv1340/rphA



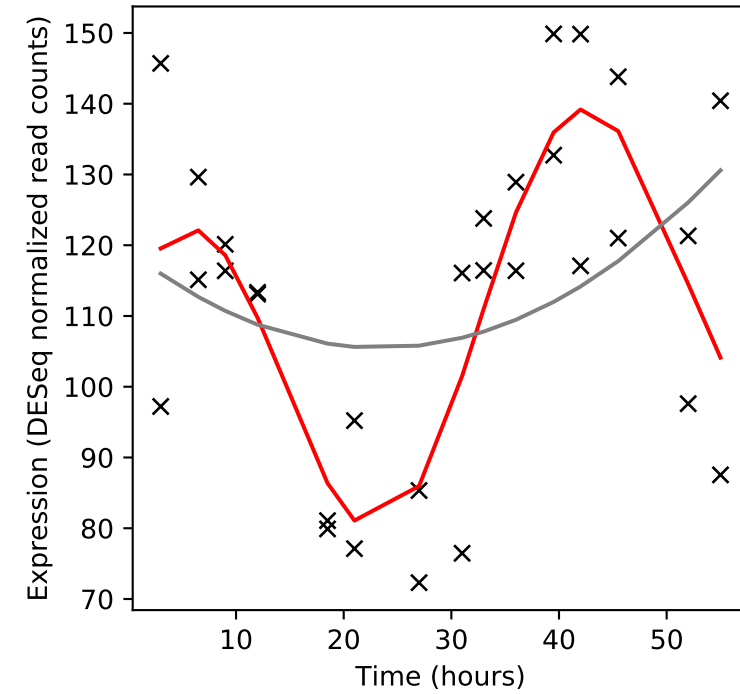
Rv1341/-



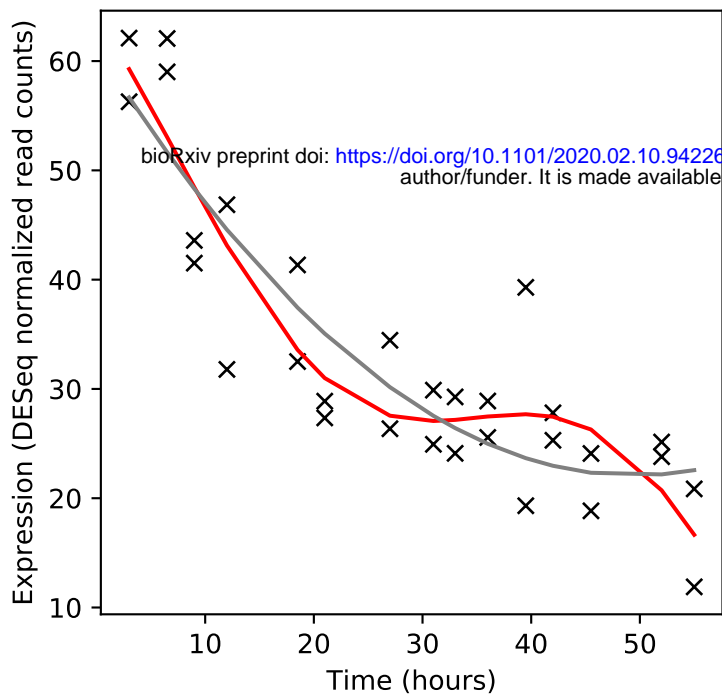
Rv1342c/-



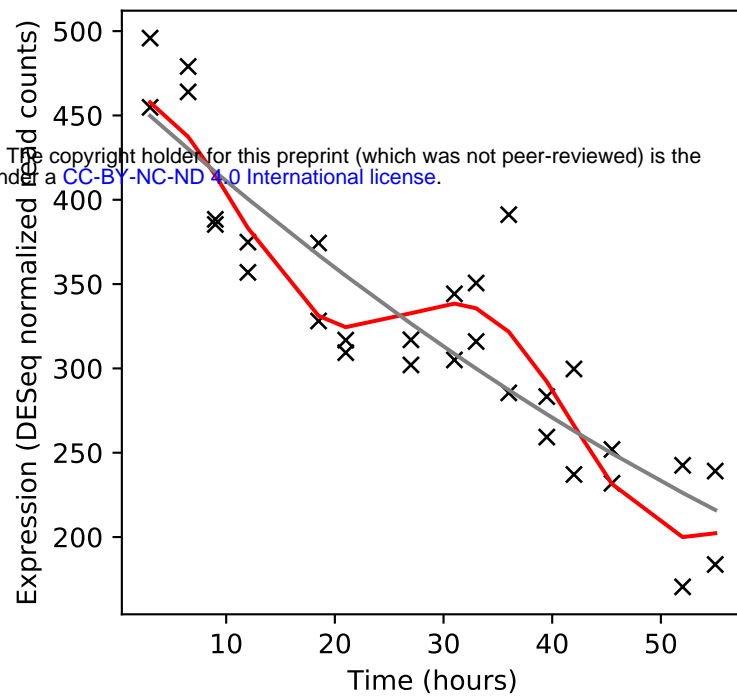
Rv1343c/lprD



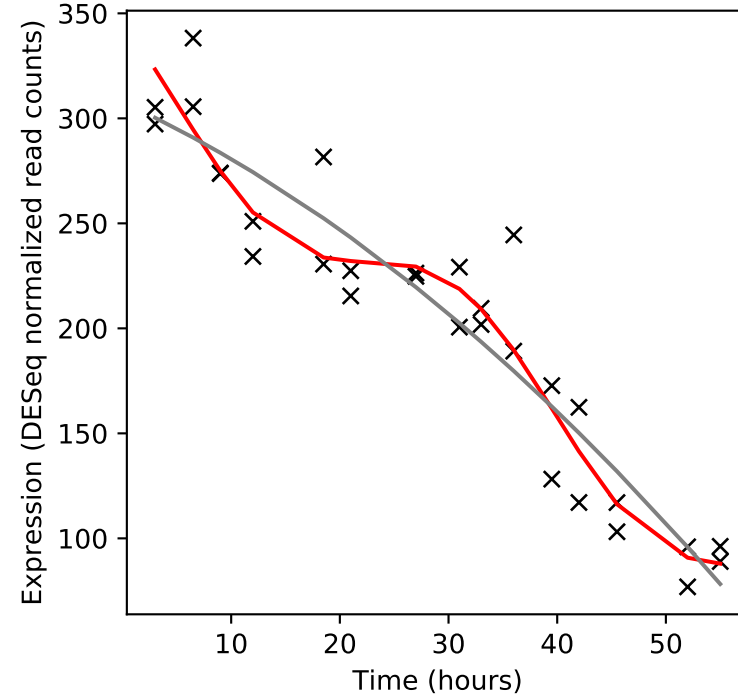
Rv1344/mbtL



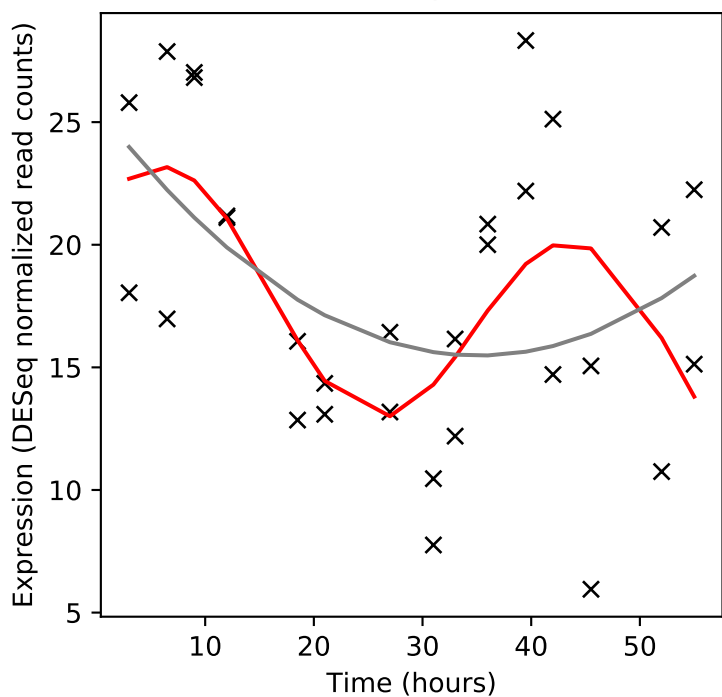
Rv1345/mbtM



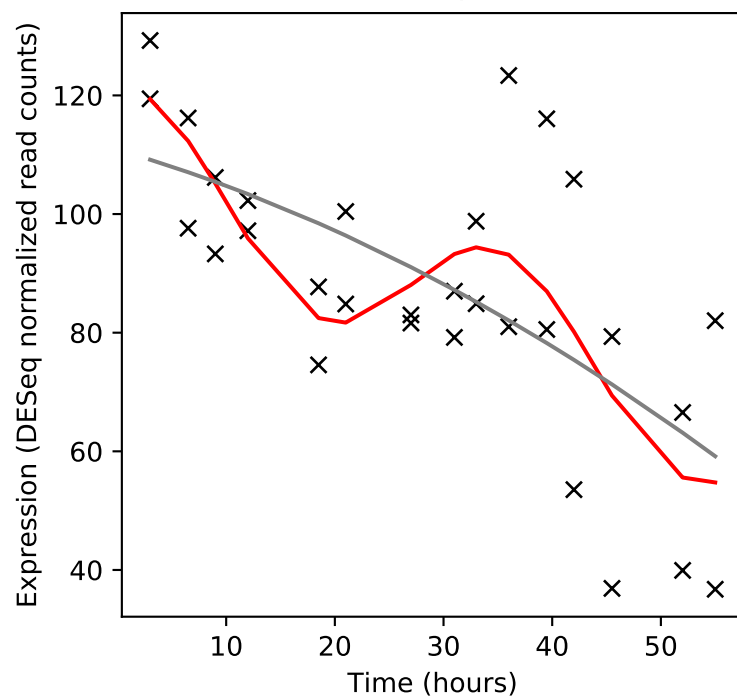
Rv1346/mbtN



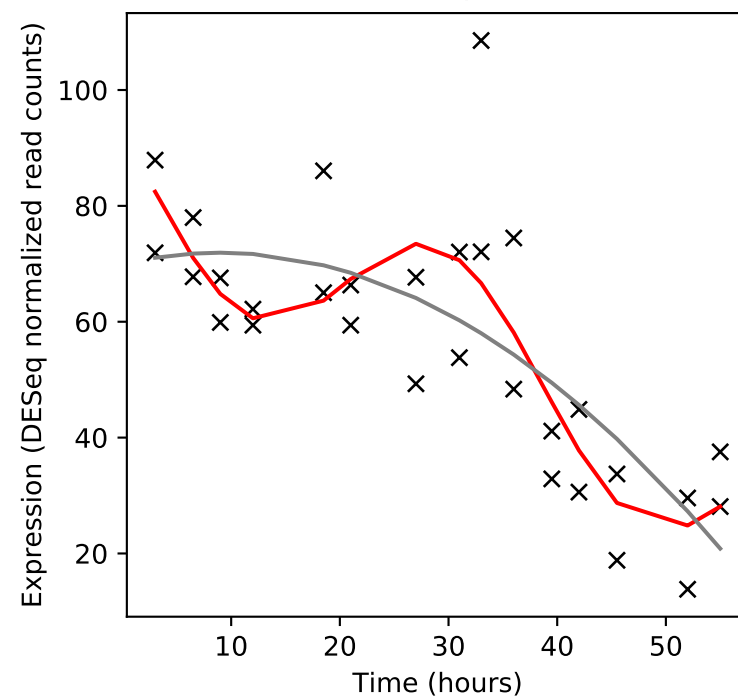
Rv1347c/mbtK



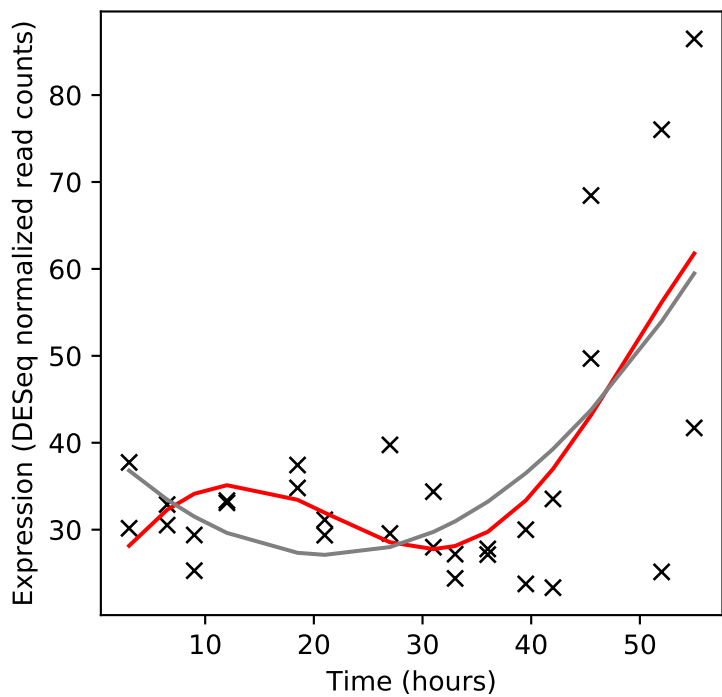
Rv1348/irtA



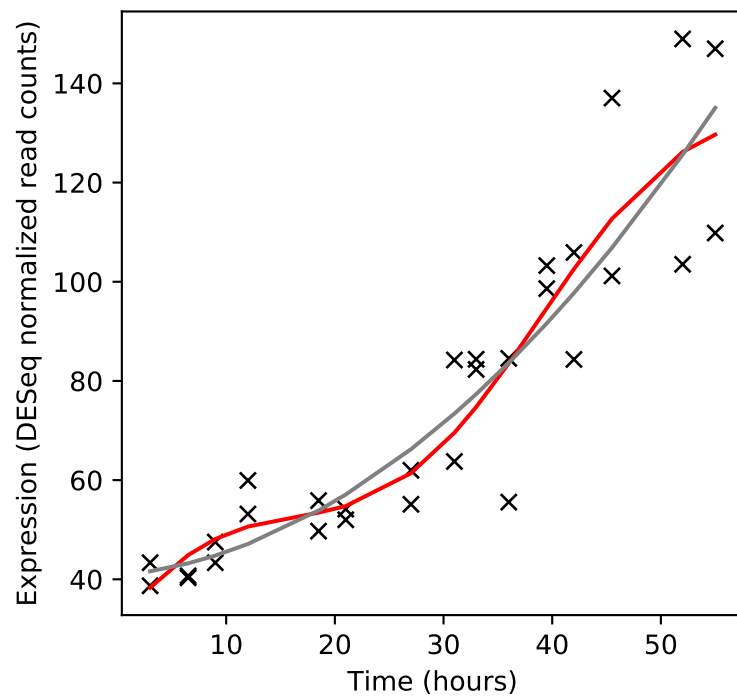
Rv1349/irtB



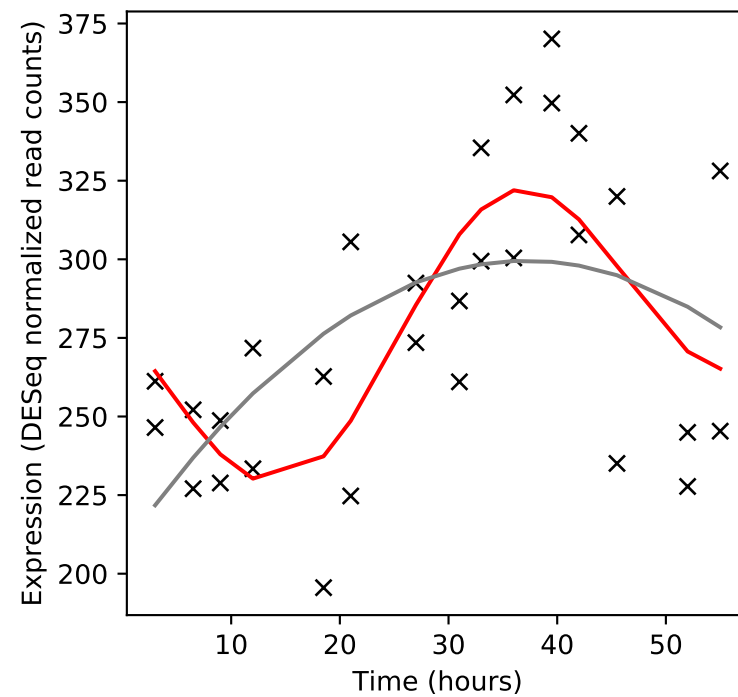
Rv1350/fabG2



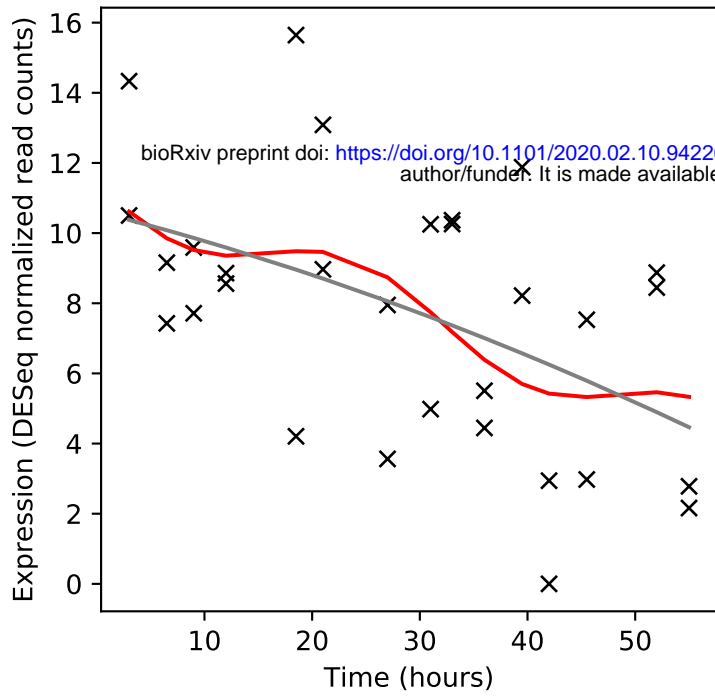
Rv1351/-



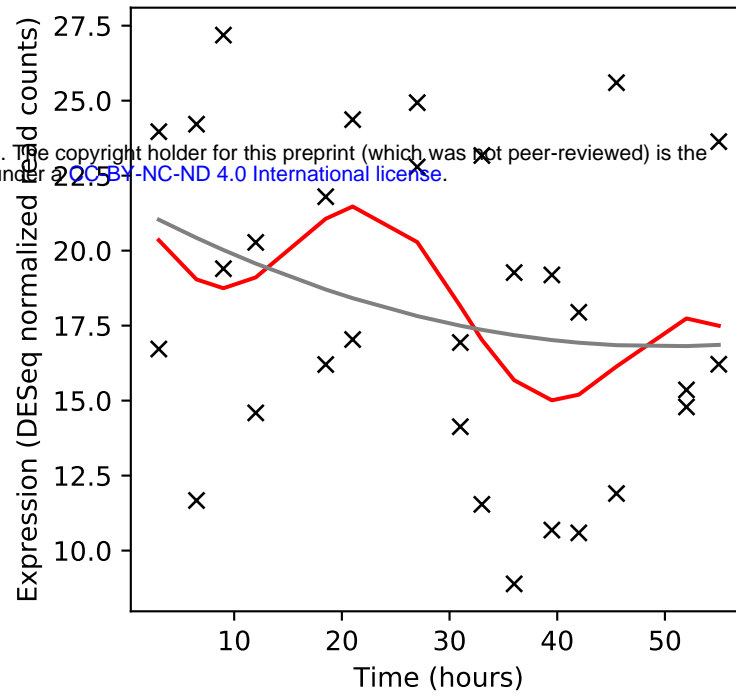
Rv1352/-



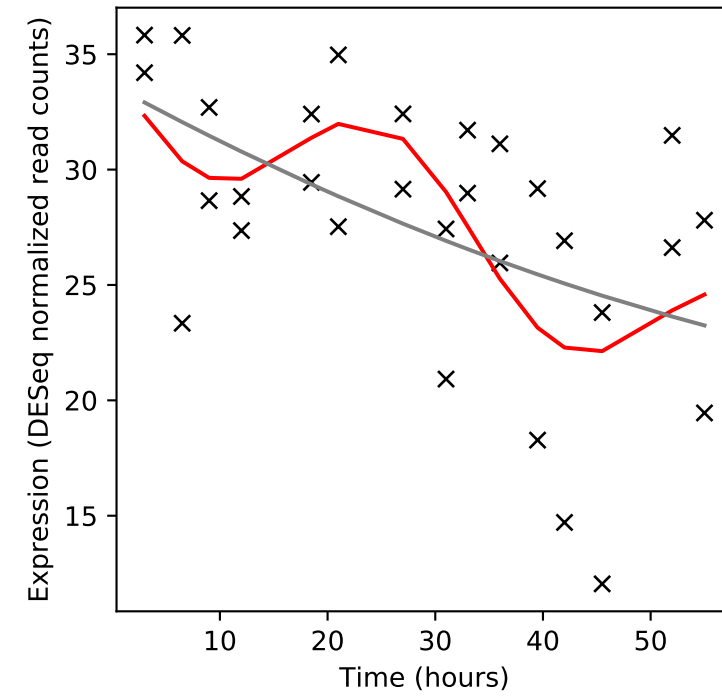
Rv1353c/-



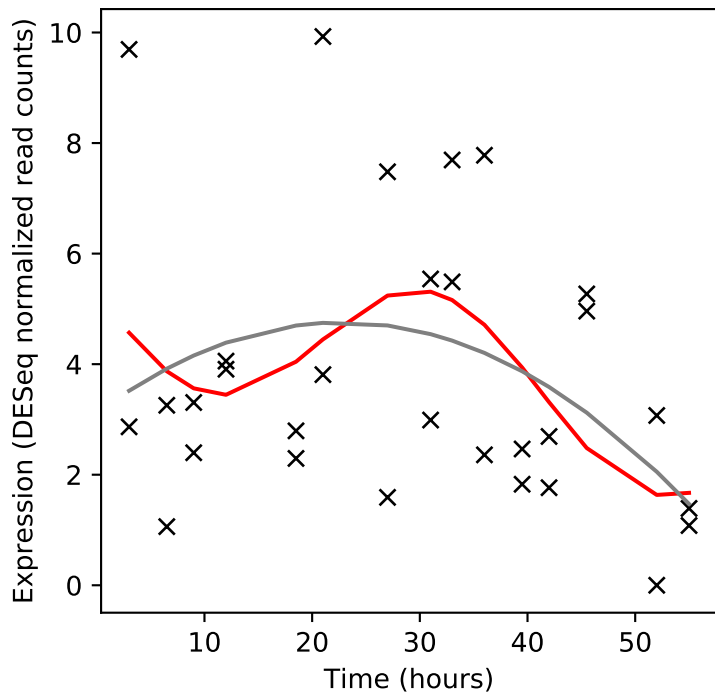
Rv1354c/-



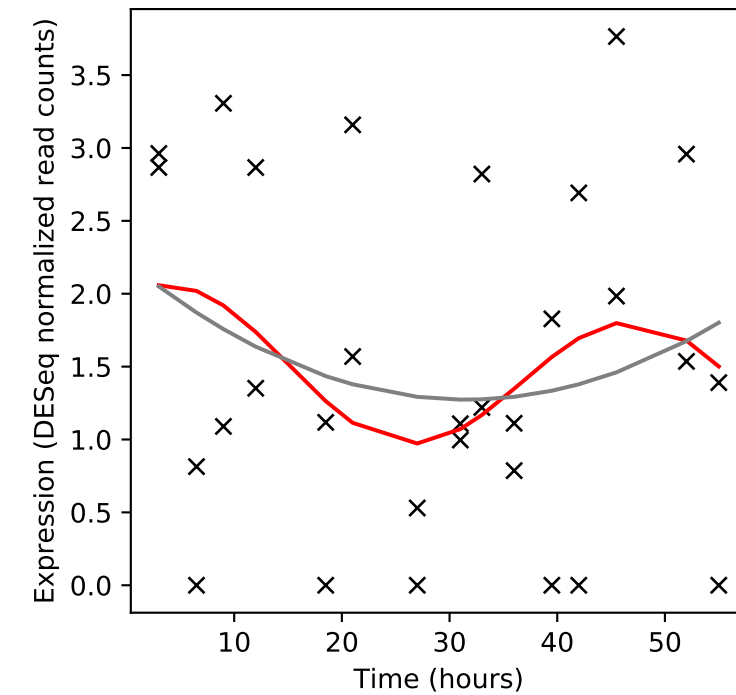
Rv1355c/moeY



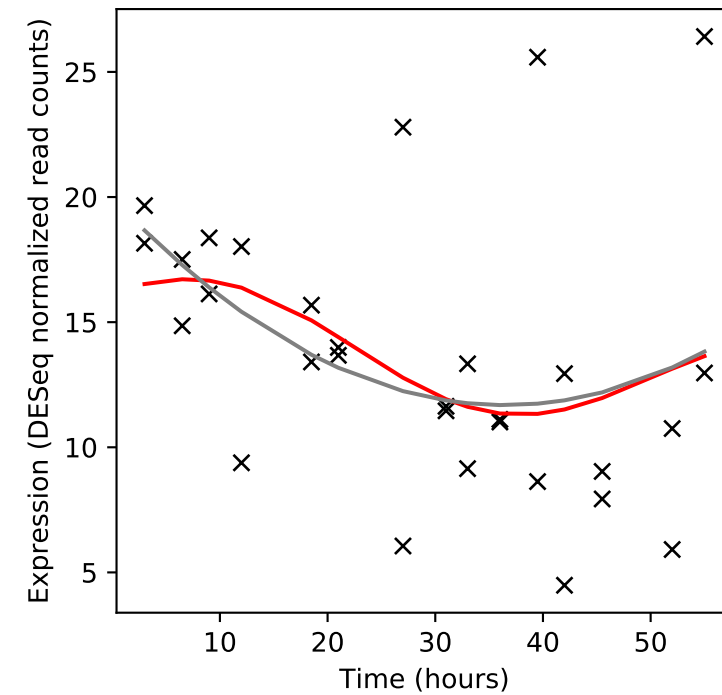
Rv1356c/-



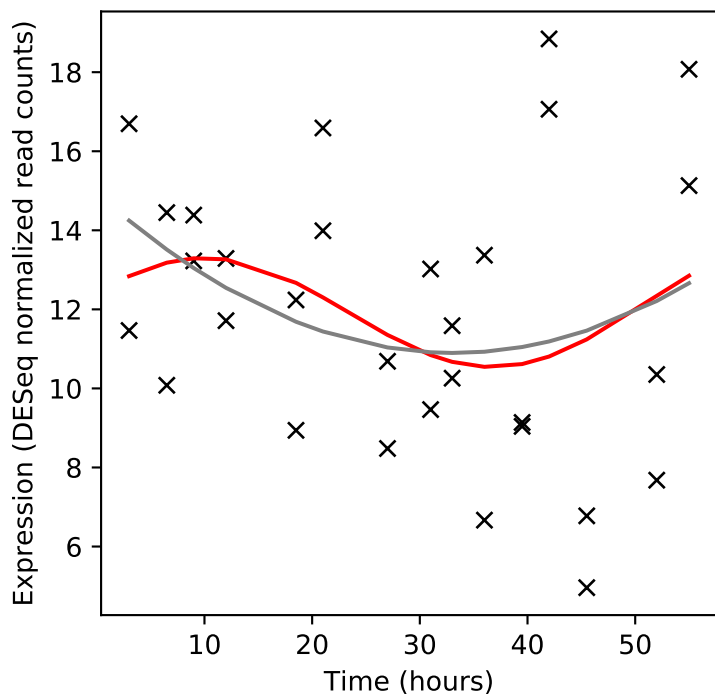
Rv1357c/-



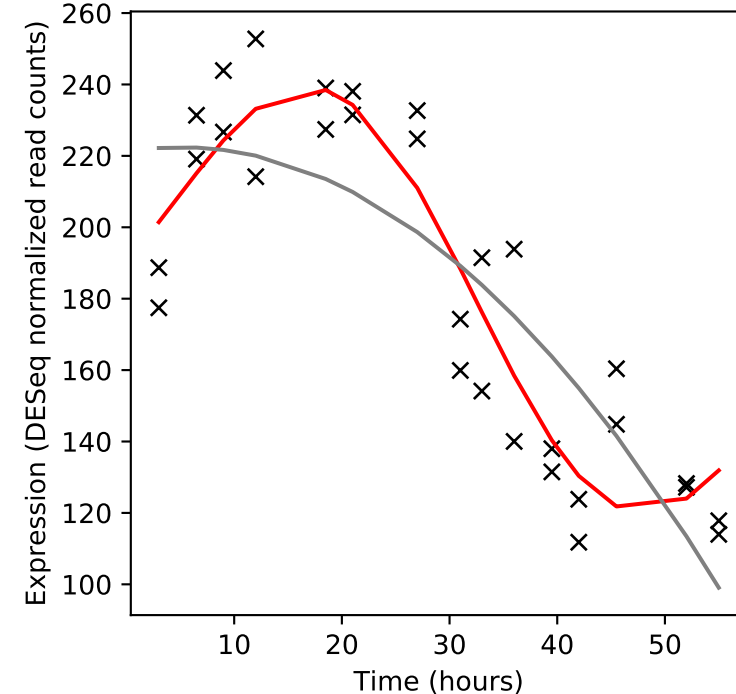
Rv1358/-



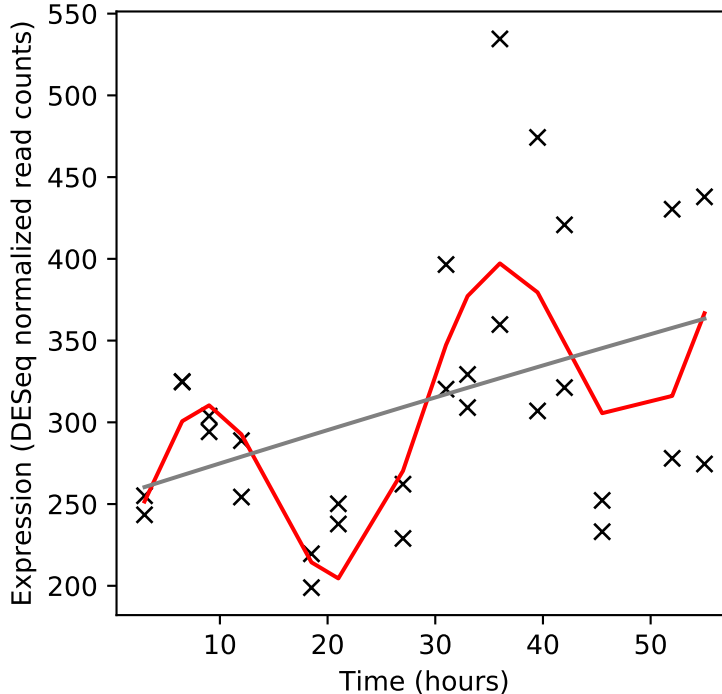
Rv1359/-



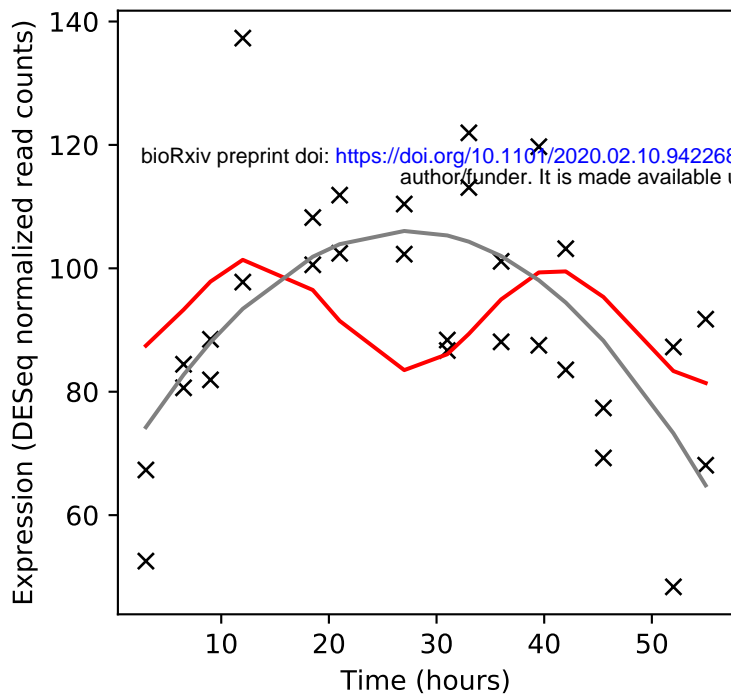
Rv1360/-



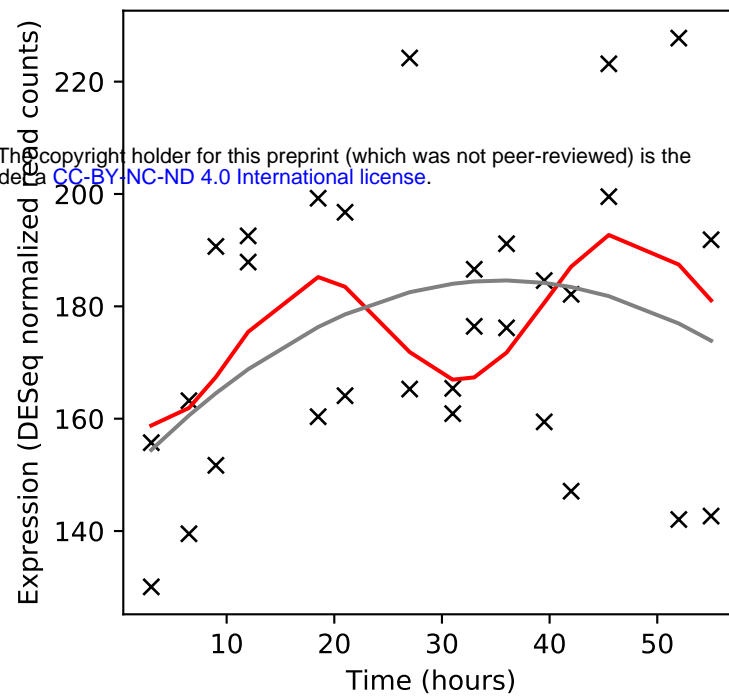
Rv1361c/PPE19



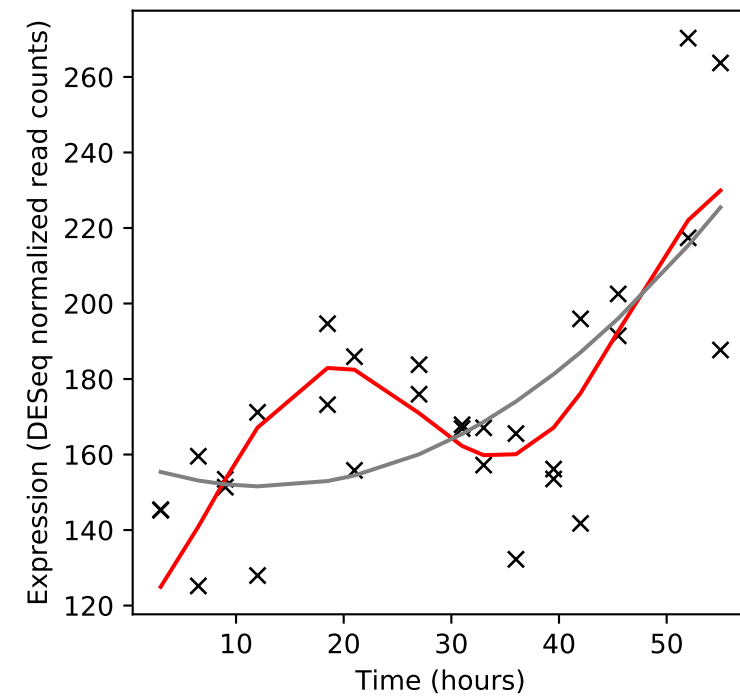
Rv1362c/-



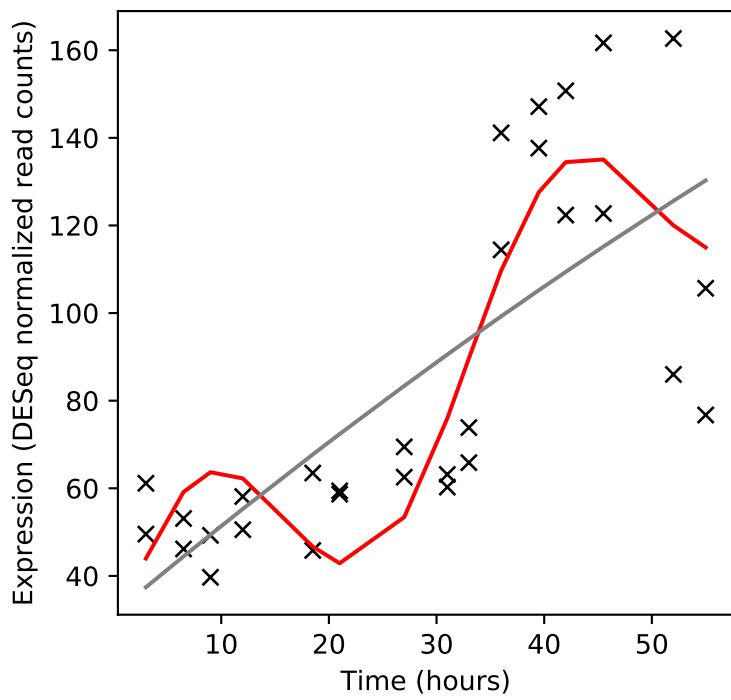
Rv1363c/-



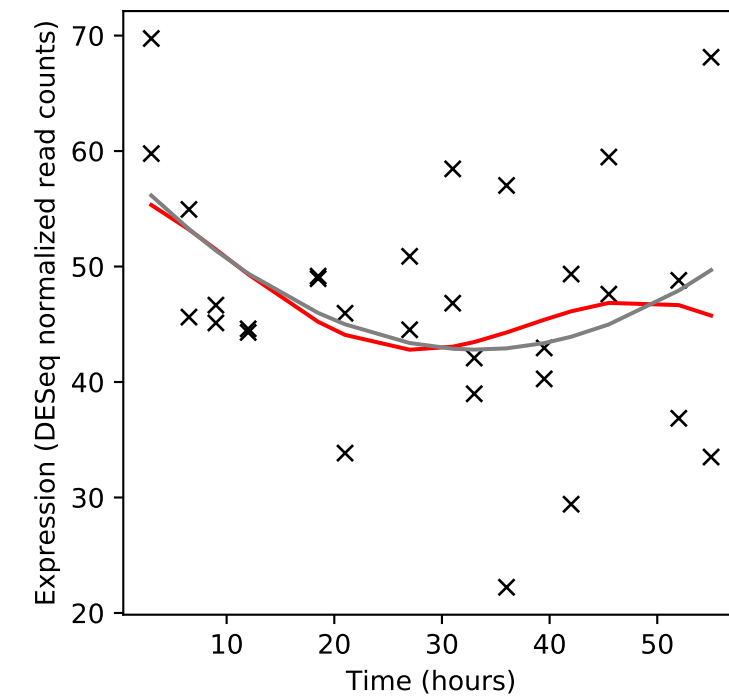
Rv1364c/-



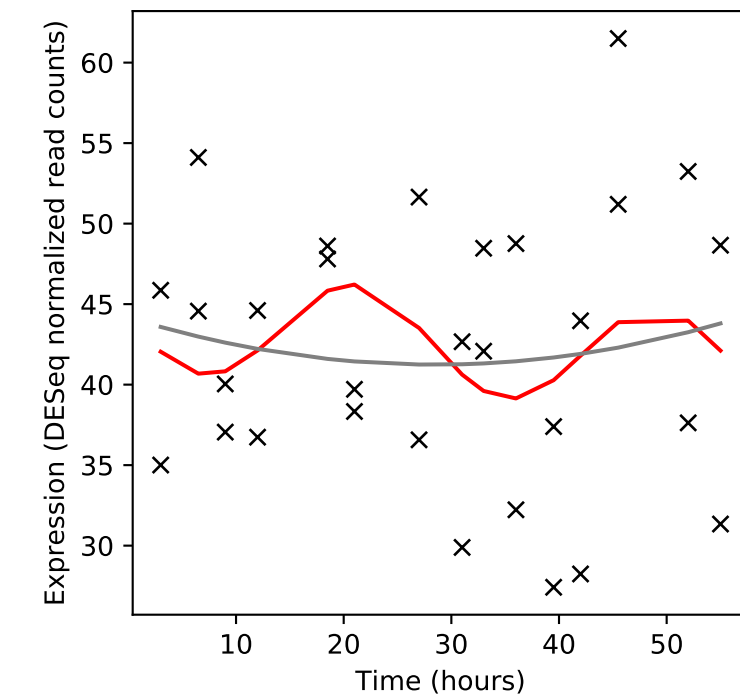
Rv1365c/rsfA



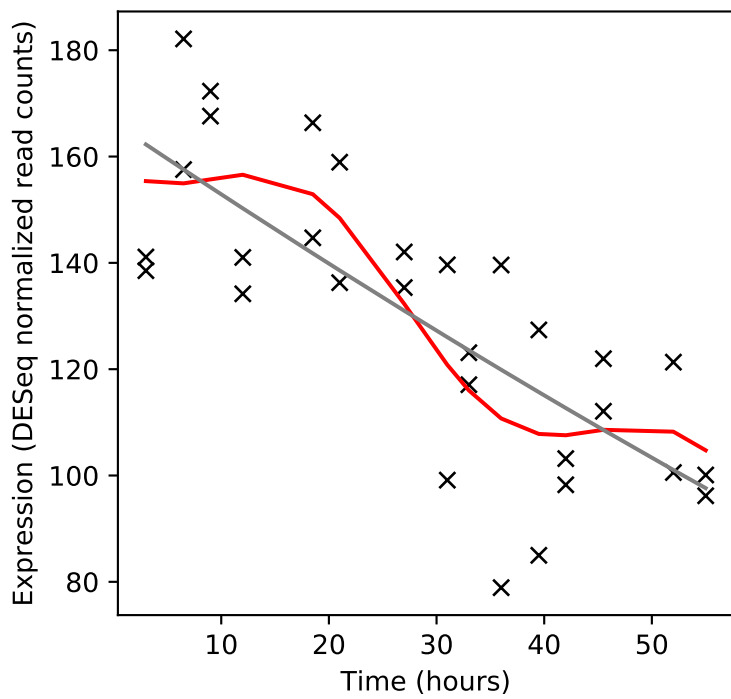
Rv1366/-



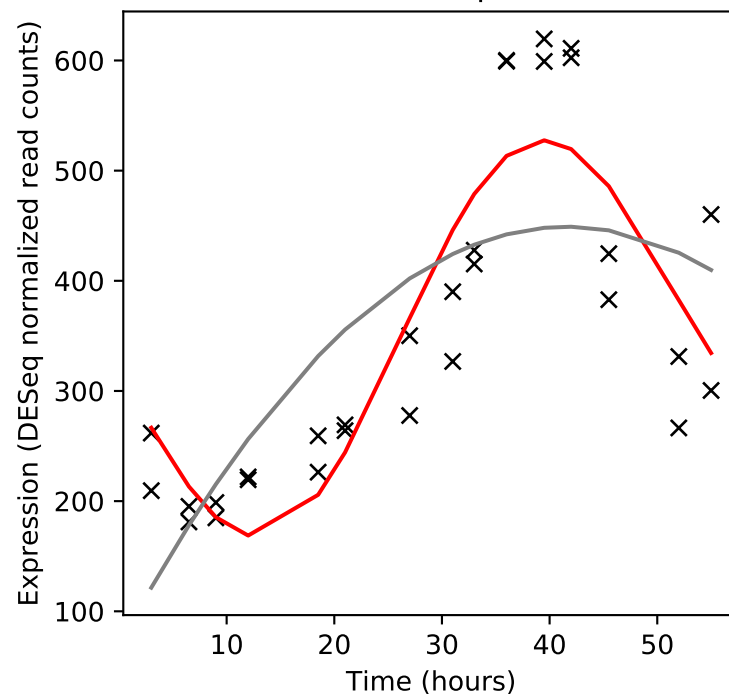
Rv1366A/-



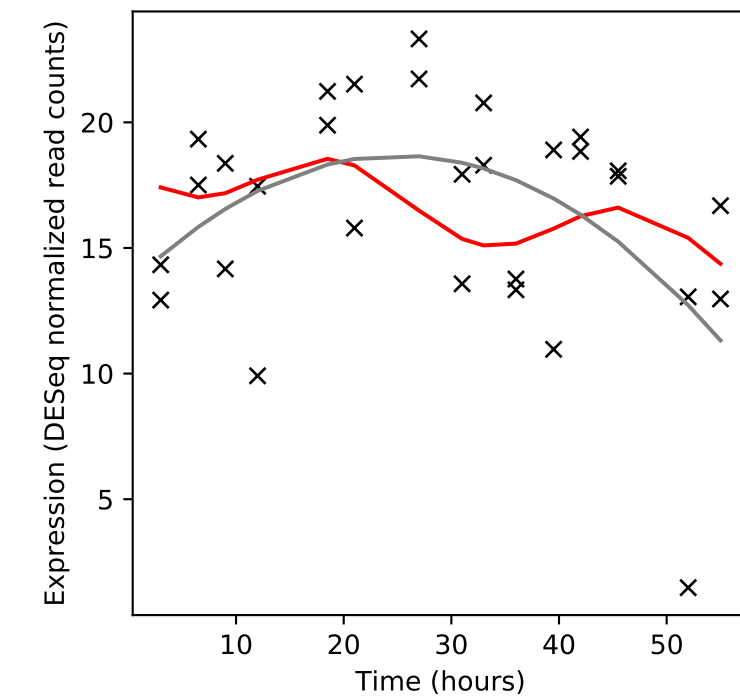
Rv1367c/-



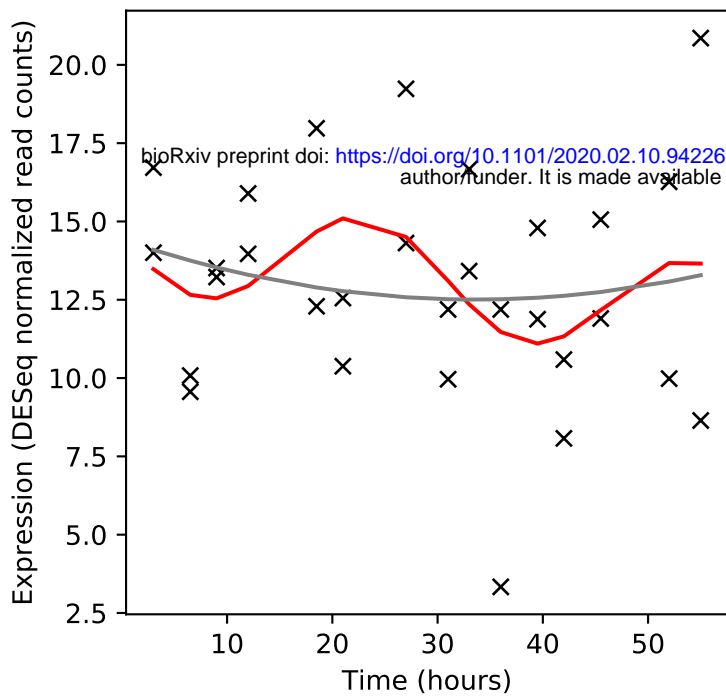
Rv1368/lprF



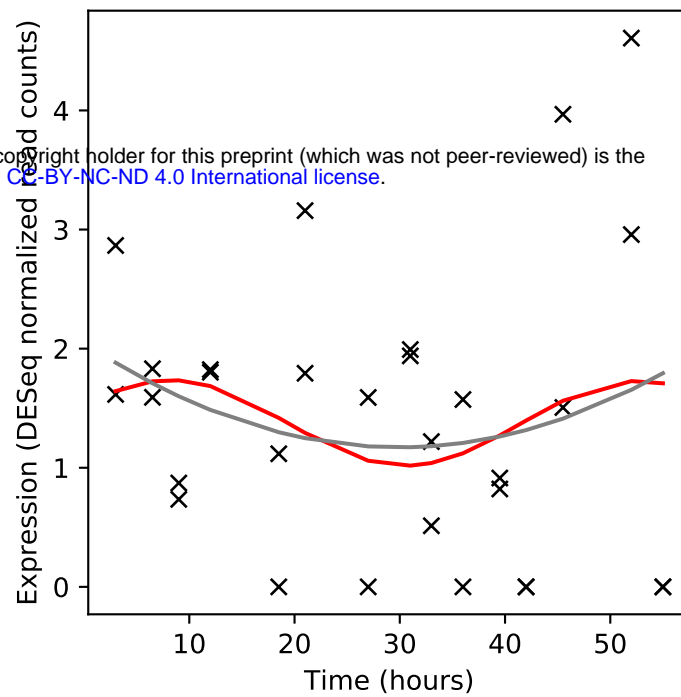
Rv1369c/-



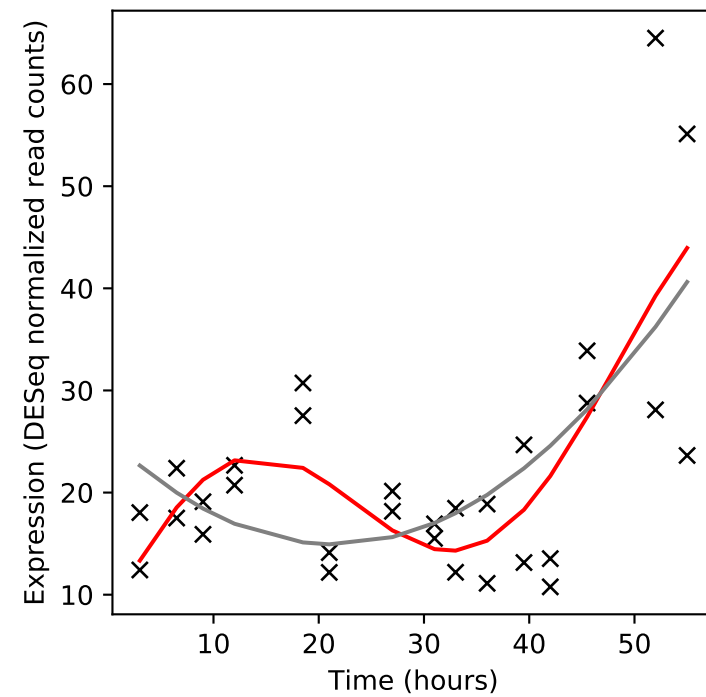
Rv1370c/-



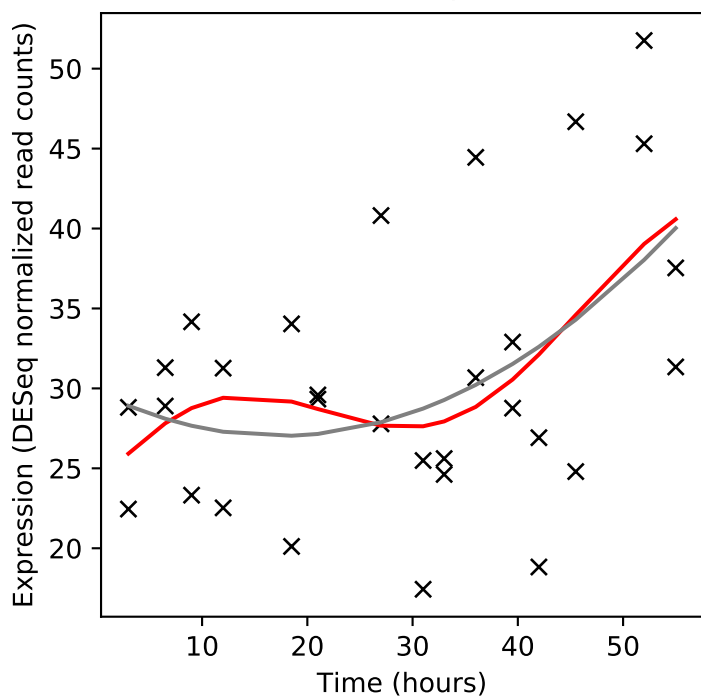
Rv1371/-



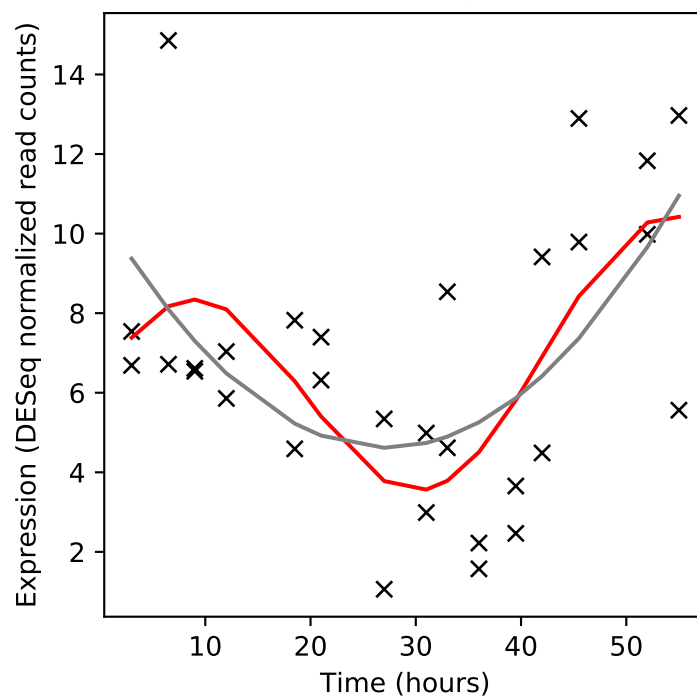
Rv1372/-



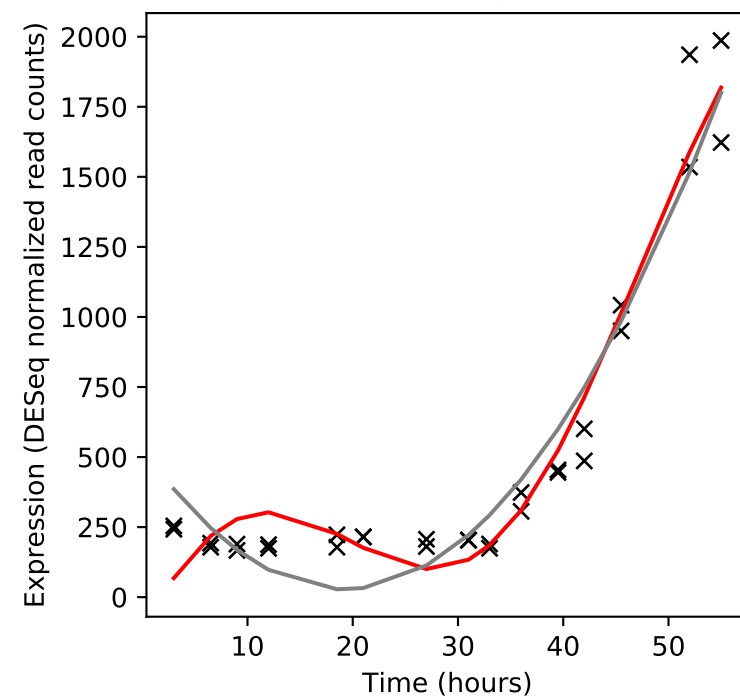
Rv1373/-



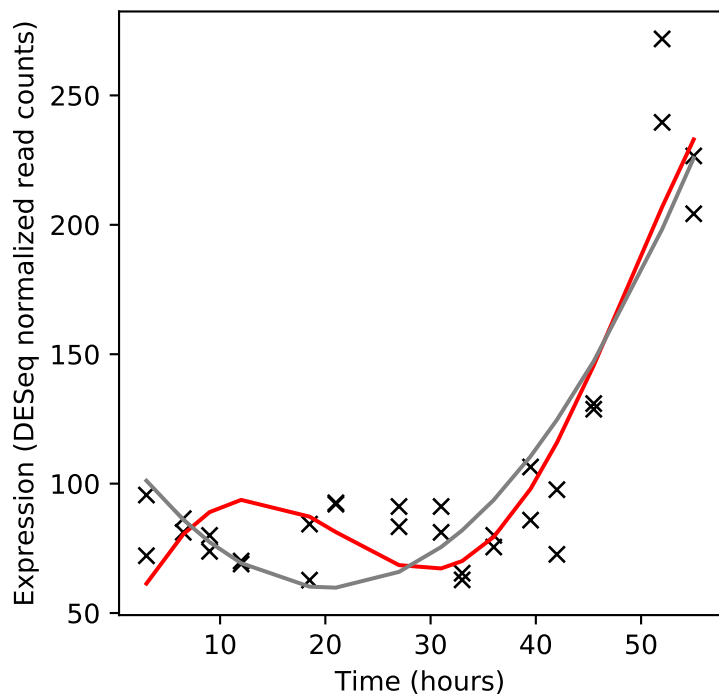
Rv1374c/-



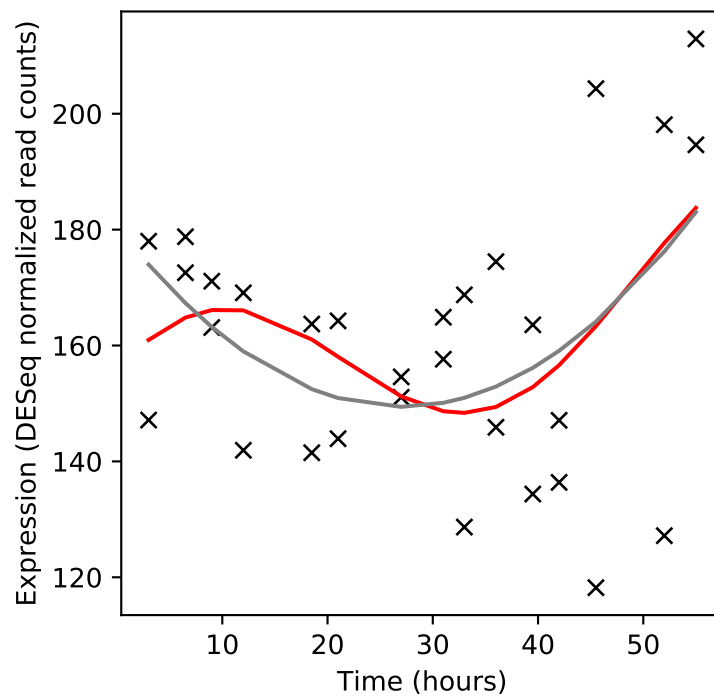
Rv1375/-



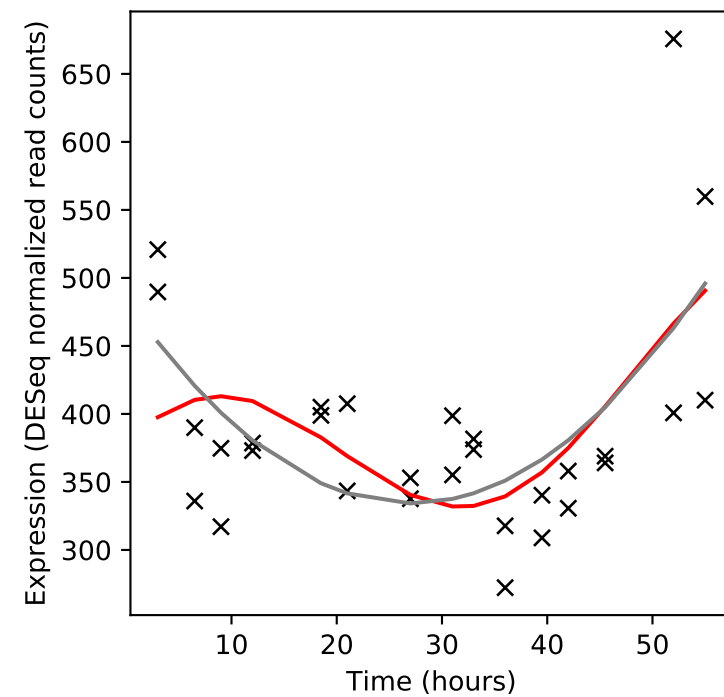
Rv1376/-



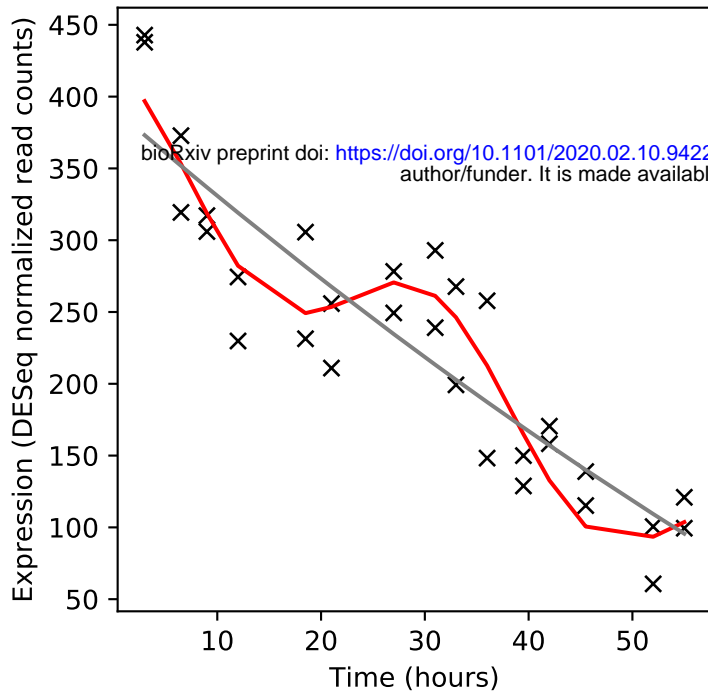
Rv1377c/-



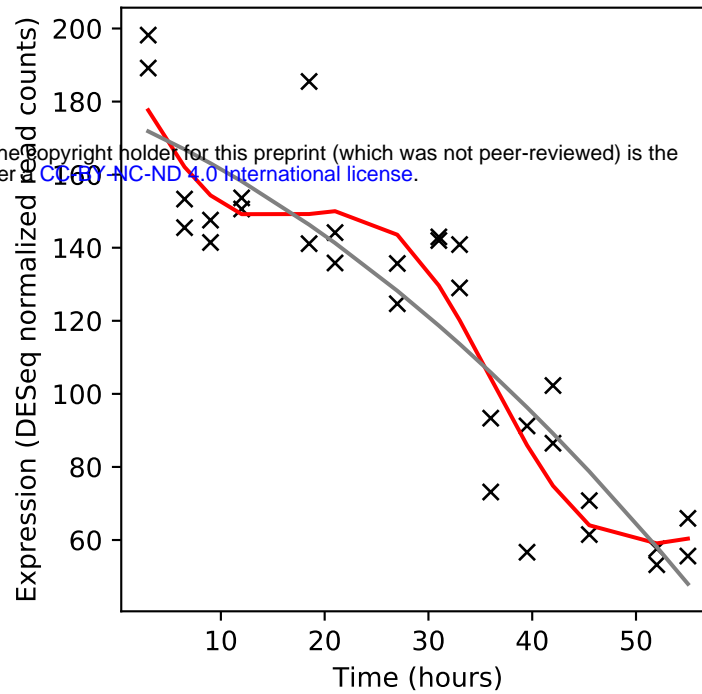
Rv1378c/-



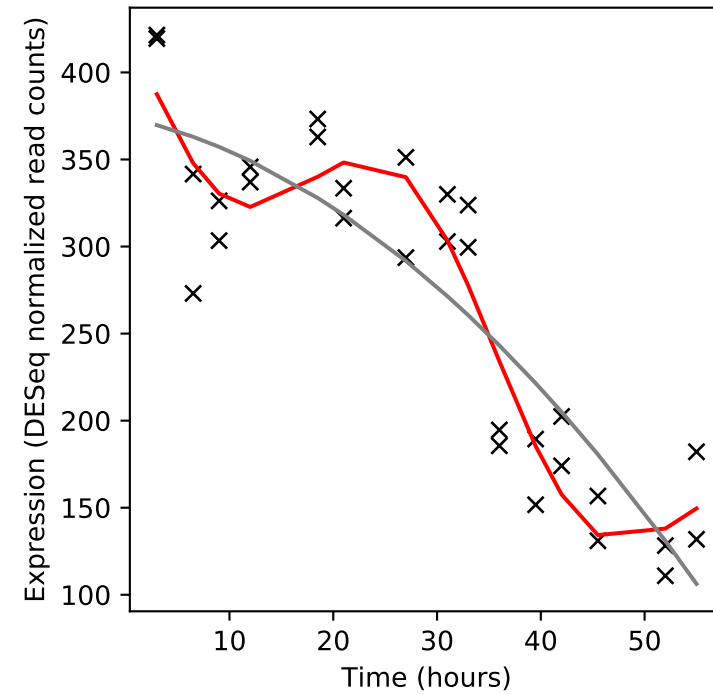
Rv1379/pyrR



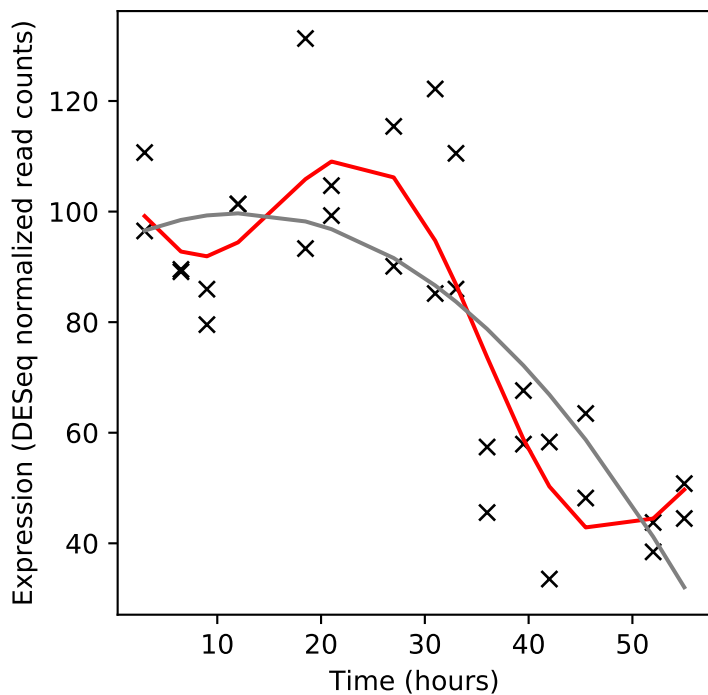
Rv1380/pyrB



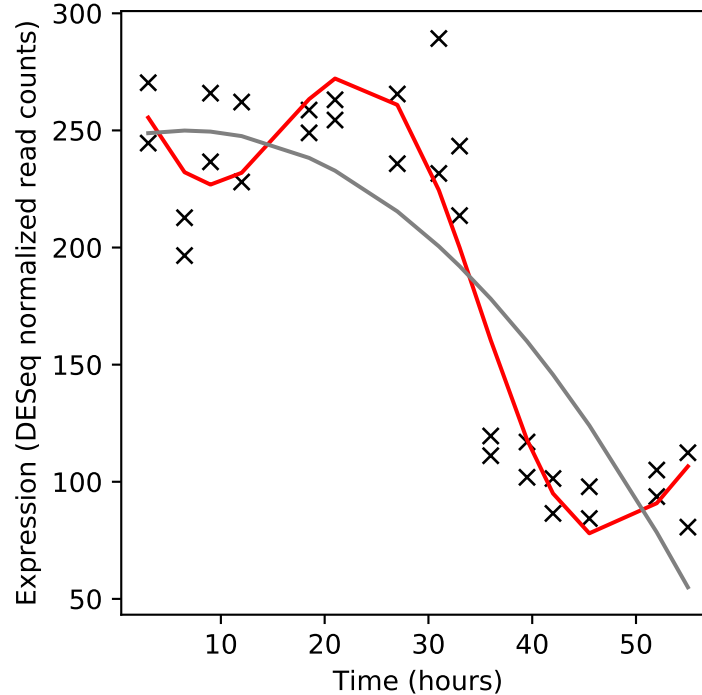
Rv1381/pyrC



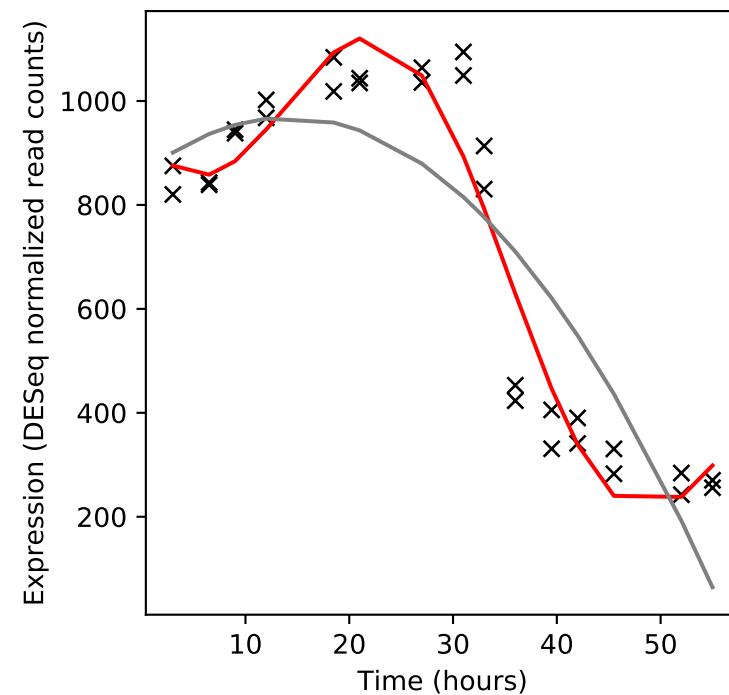
Rv1382/-



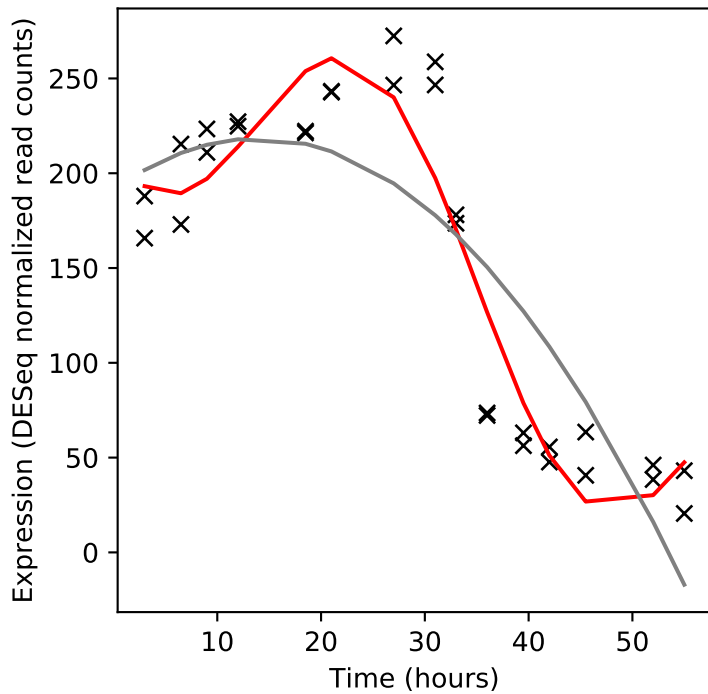
Rv1383/carA



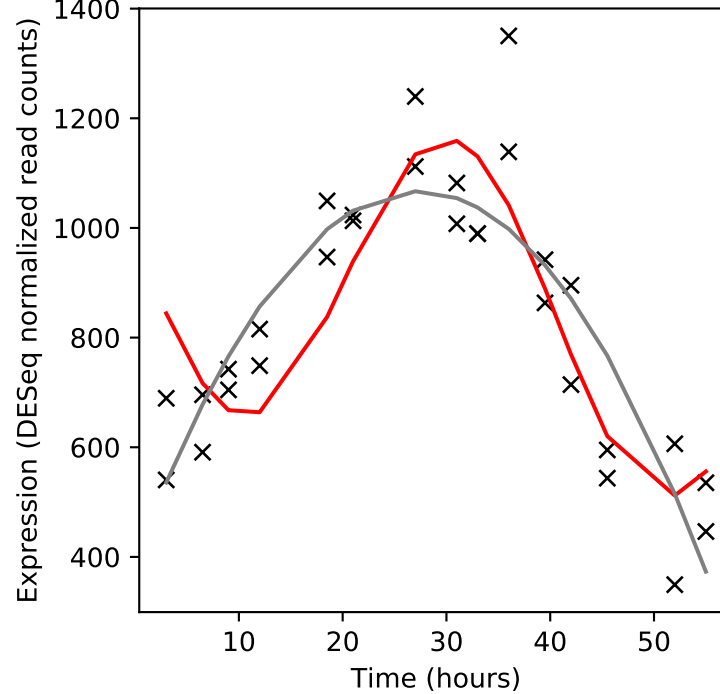
Rv1384/carB



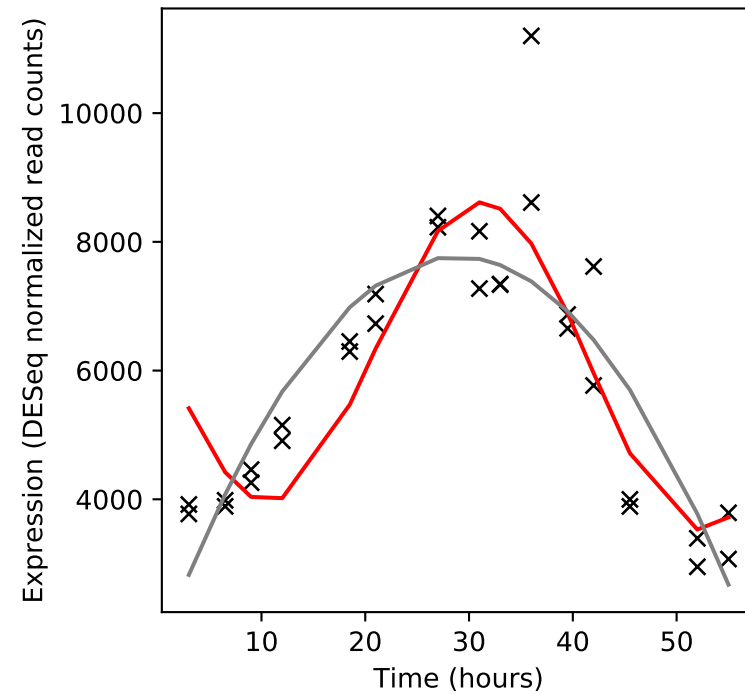
Rv1385/pyrF



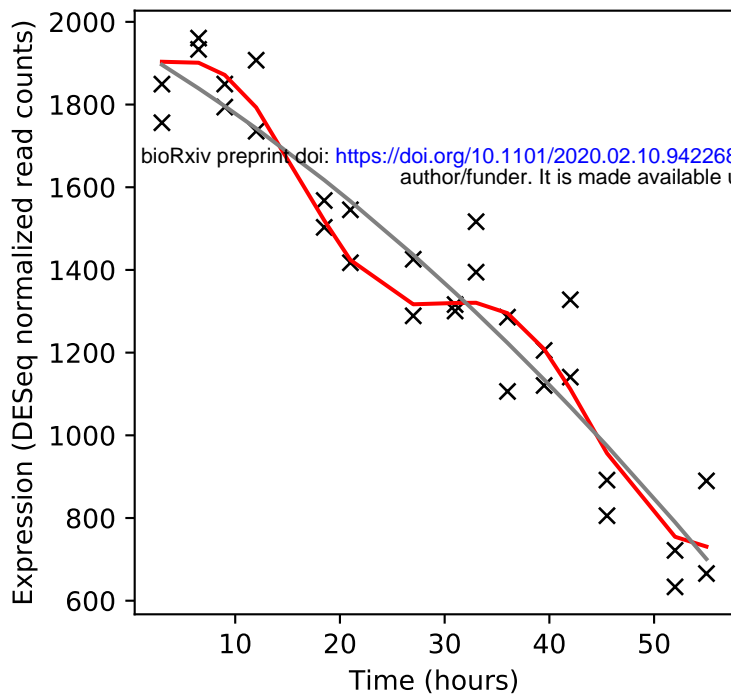
Rv1386/PE15



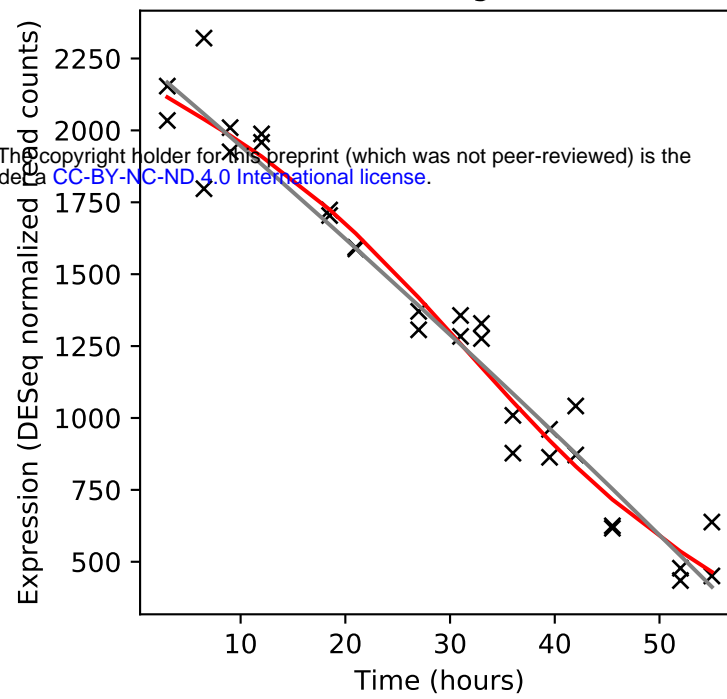
Rv1387/PPE20



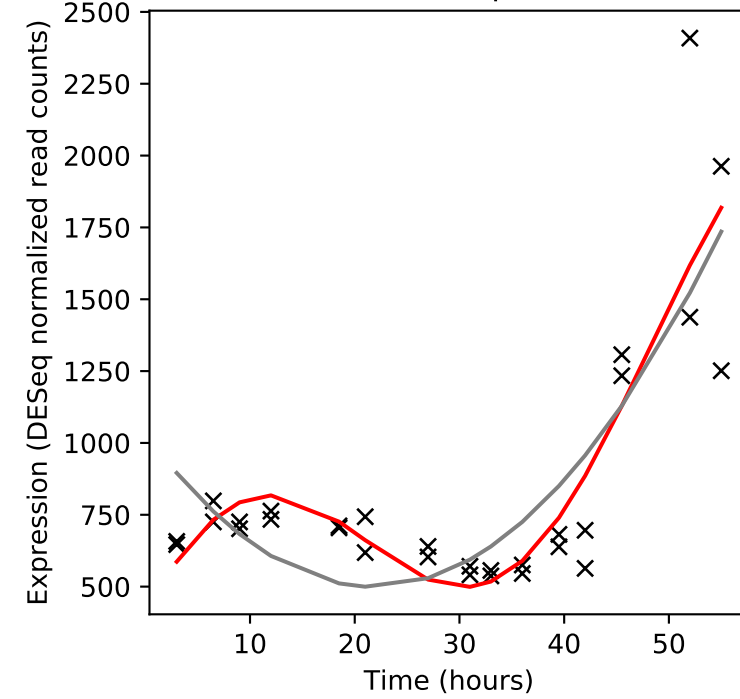
Rv1388/mihF



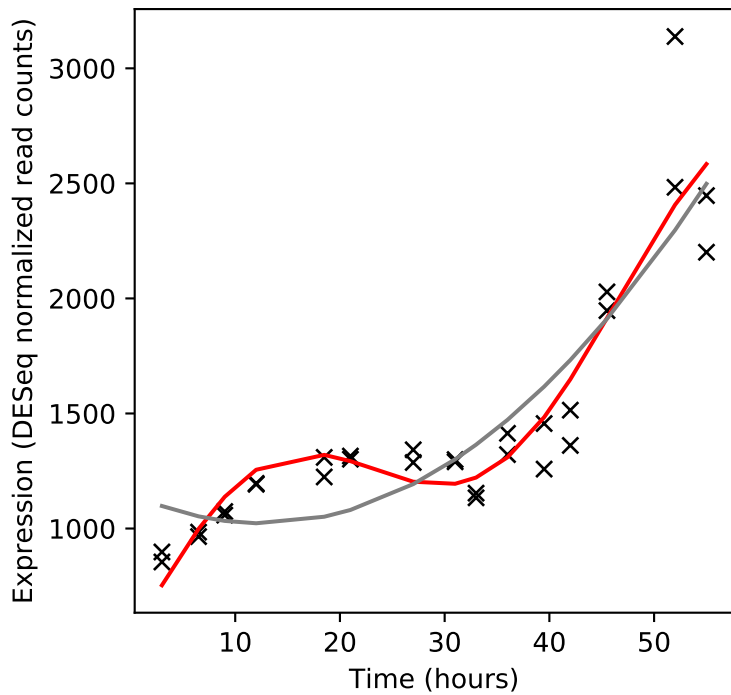
Rv1389/gmk



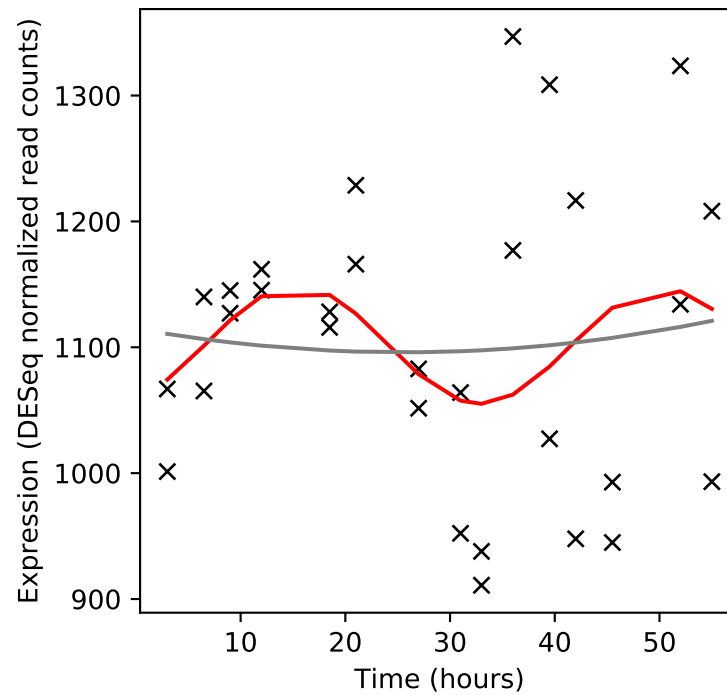
Rv1390/rpoZ



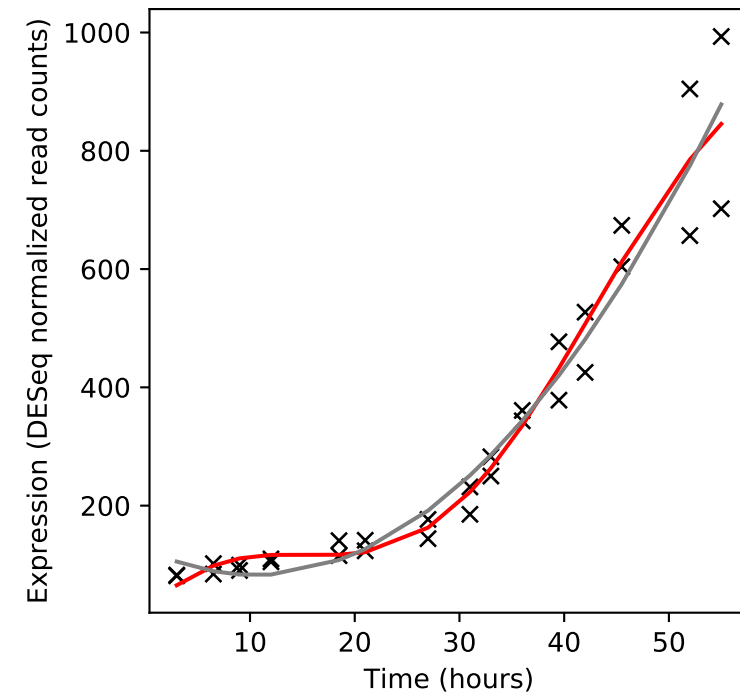
Rv1391/dfp



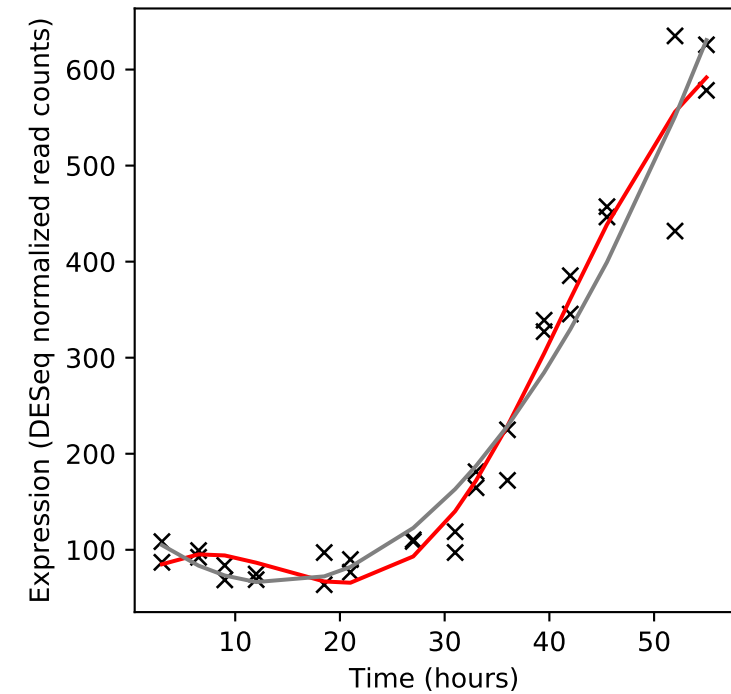
Rv1392/metK



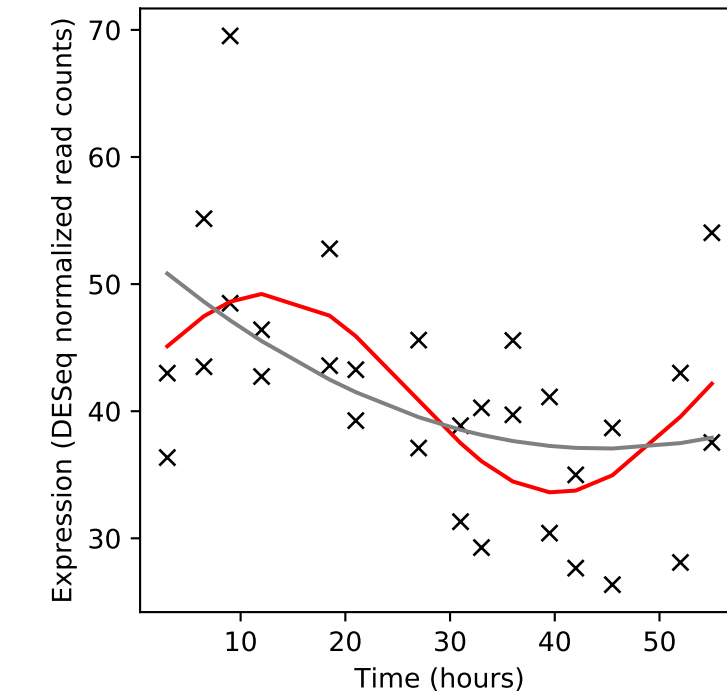
Rv1393c/-



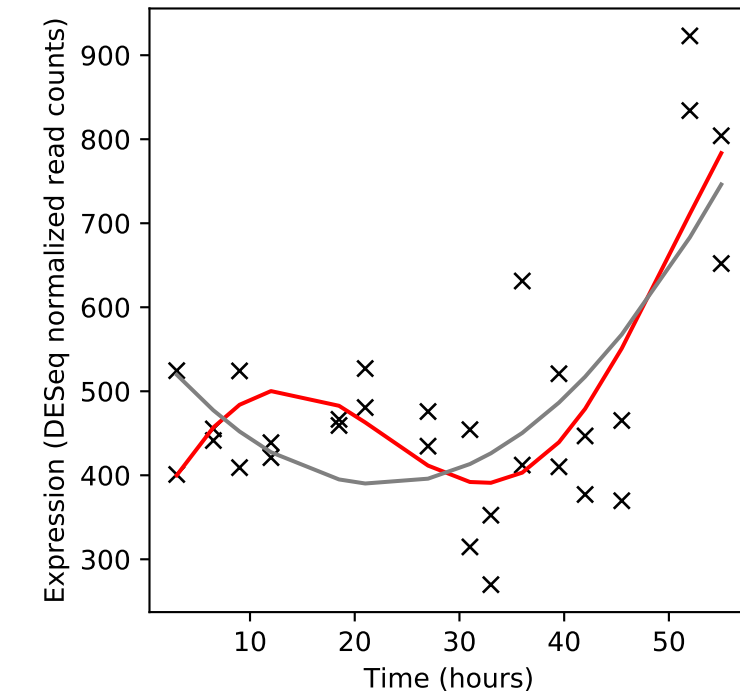
Rv1394c/cyp132



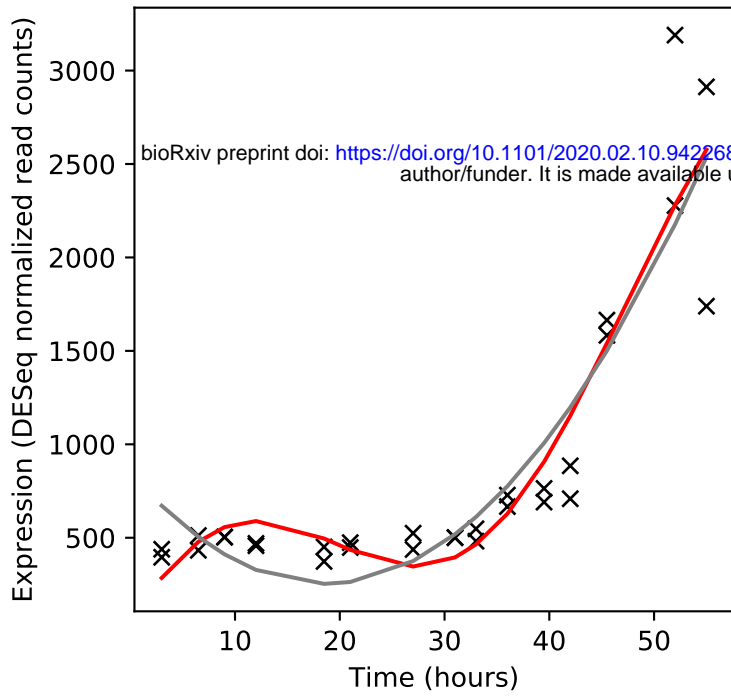
Rv1395/-



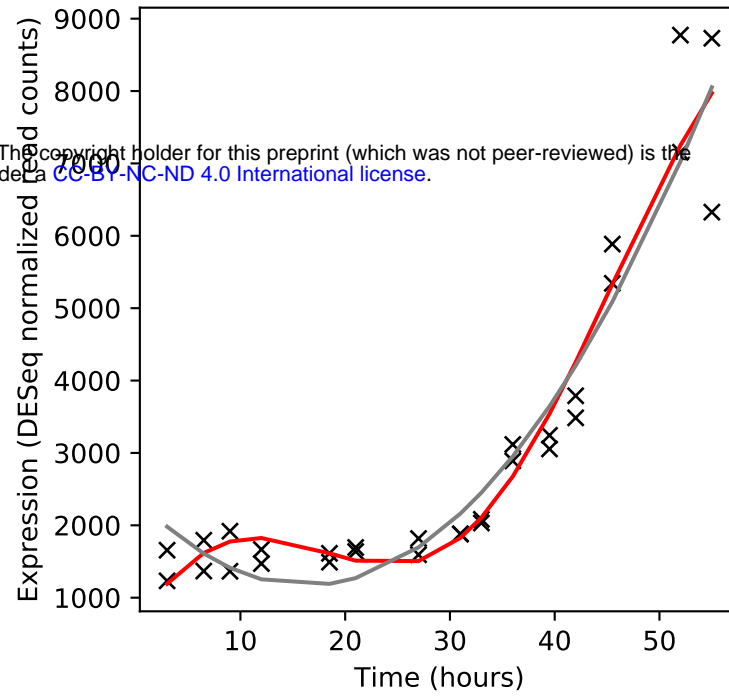
Rv1396c/PE_PGRS25



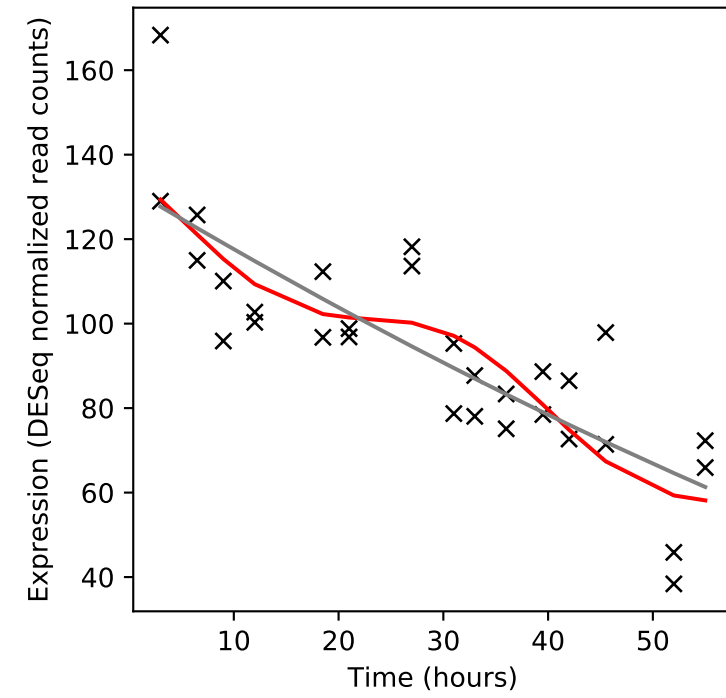
Rv1397c/vapC10



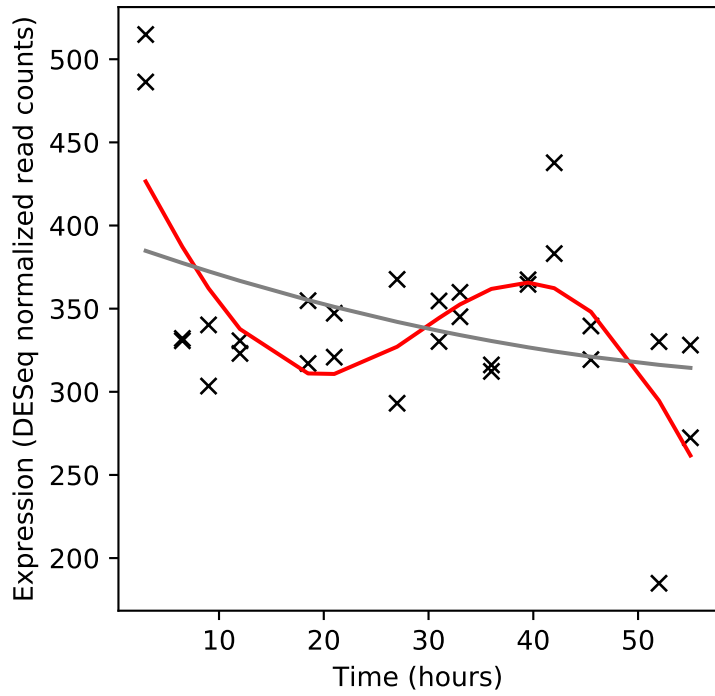
Rv1398c/vapB10



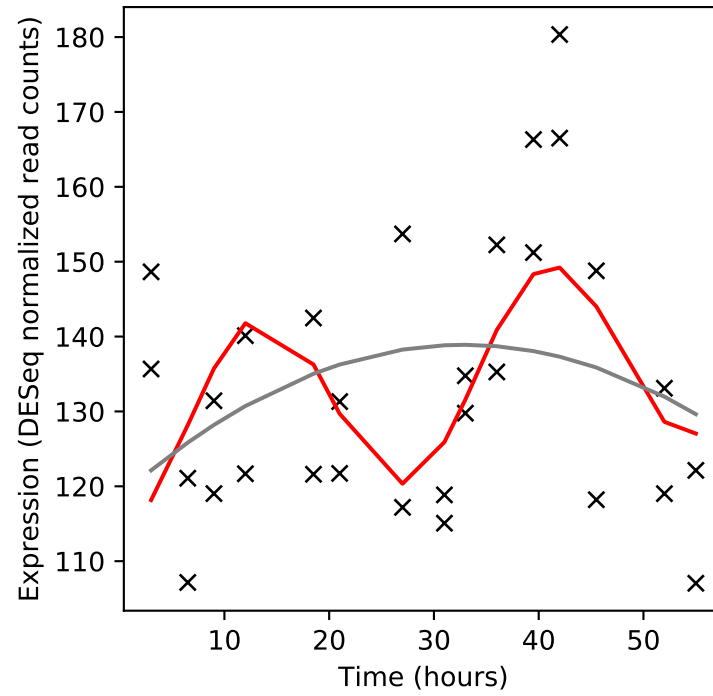
Rv1399c/nlhH



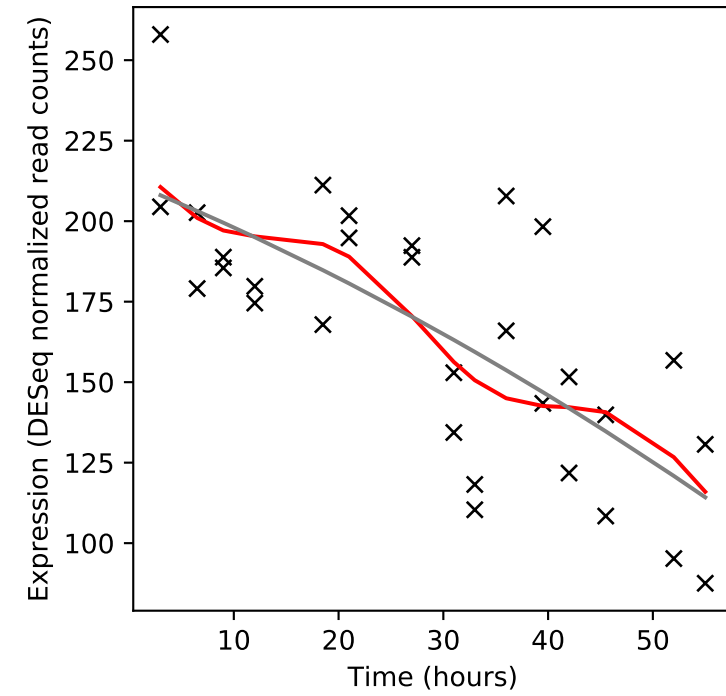
Rv1400c/lipl



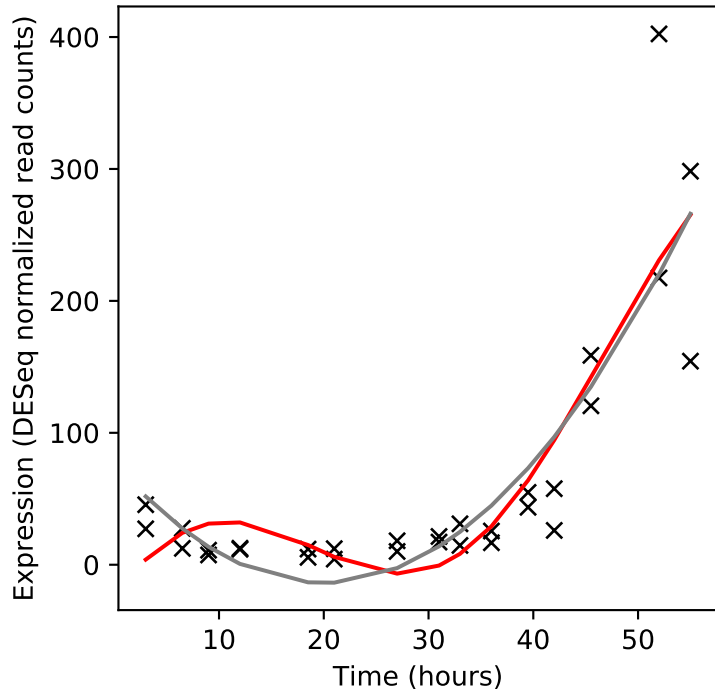
Rv1401/-



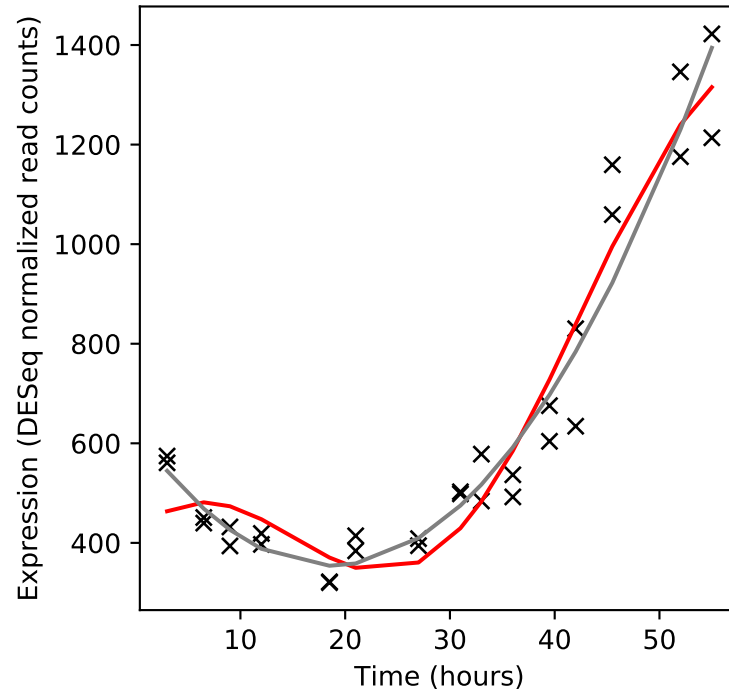
Rv1402/priA



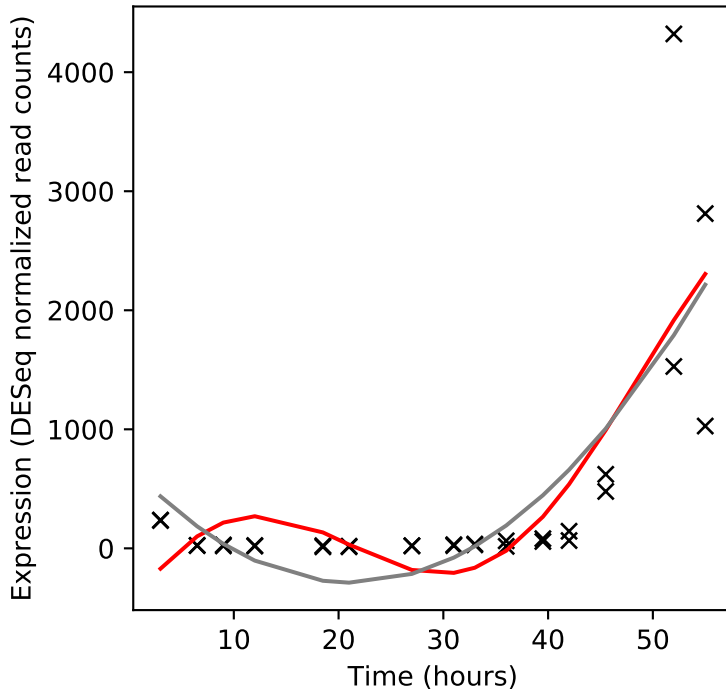
Rv1403c/-



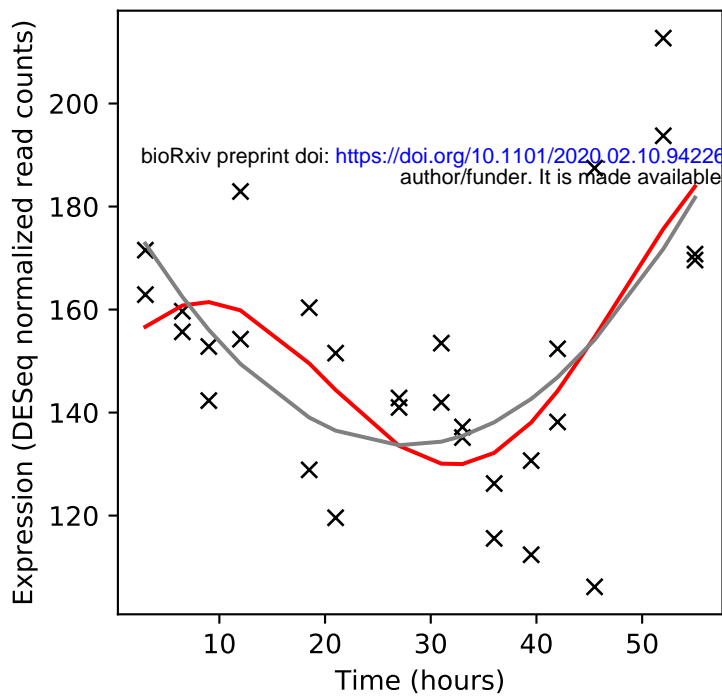
Rv1404/-



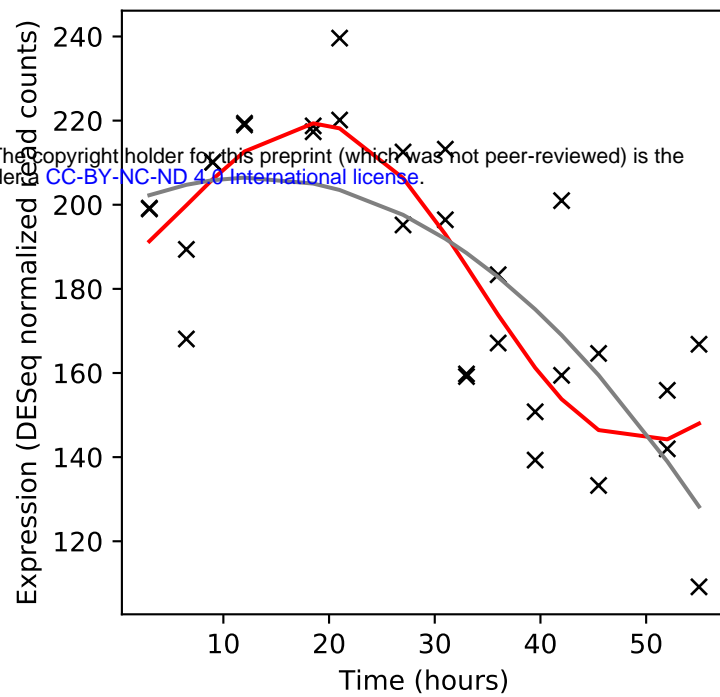
Rv1405c/-



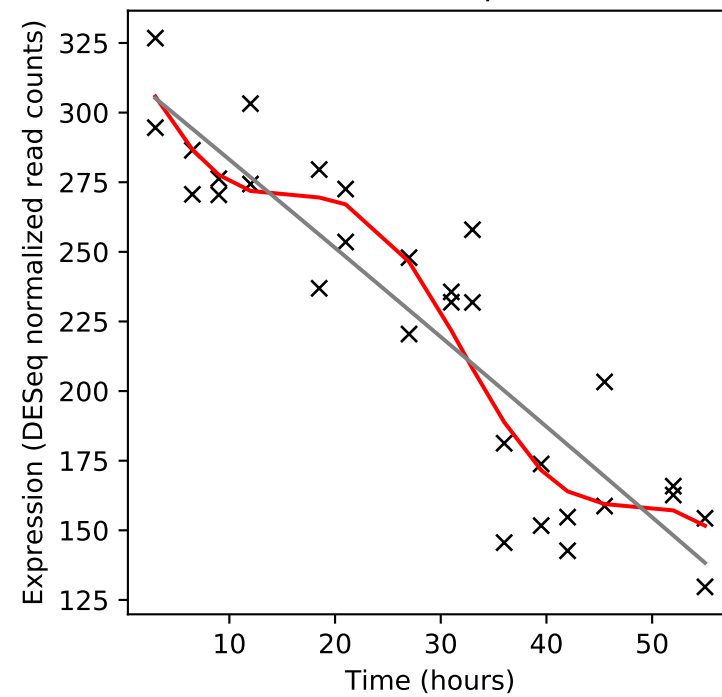
Rv1406/fmt



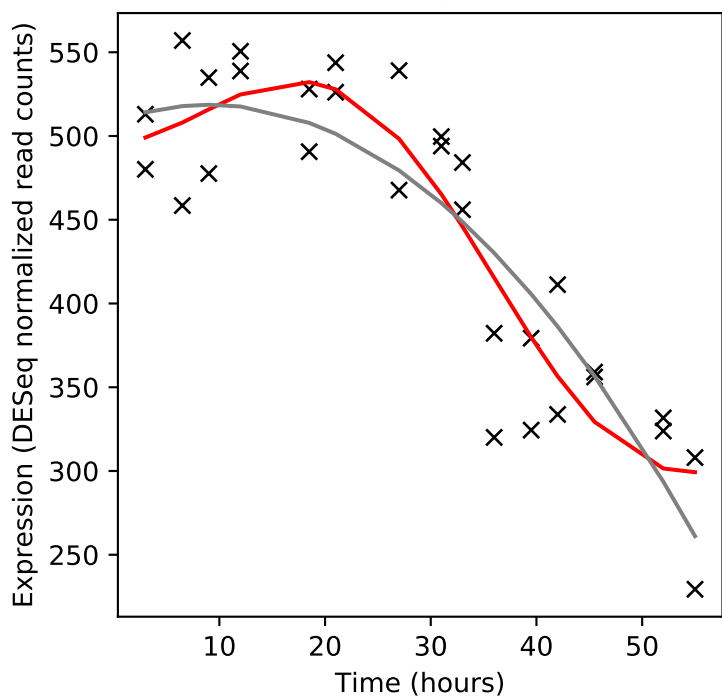
Rv1407/fmu



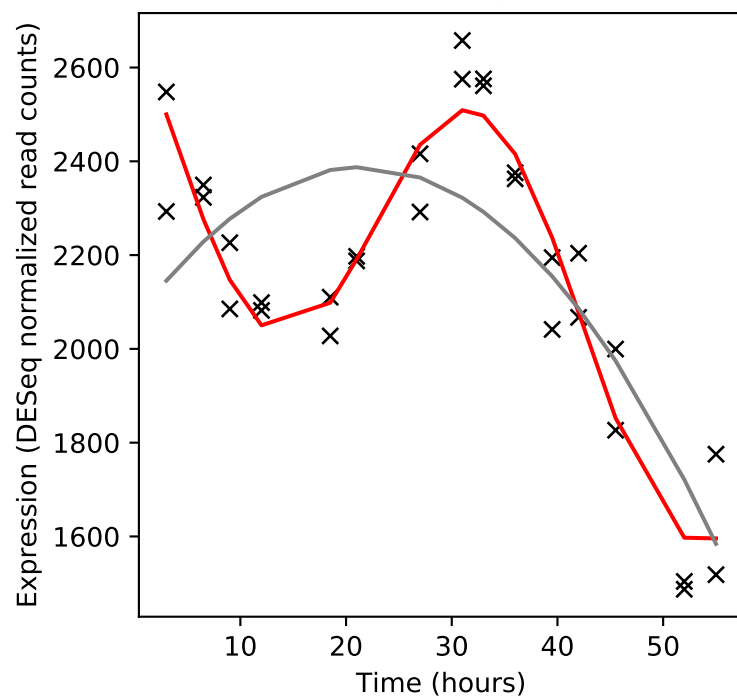
Rv1408/rpe



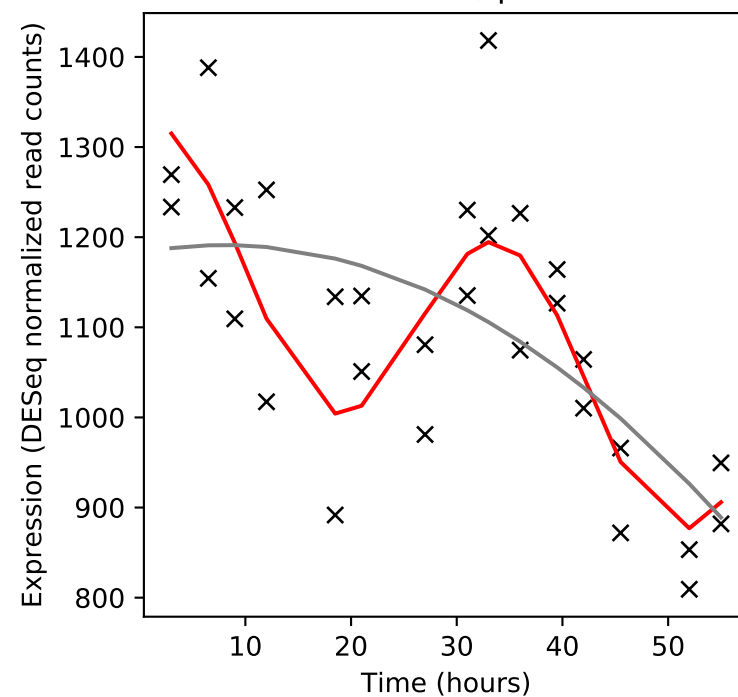
Rv1409/ribG



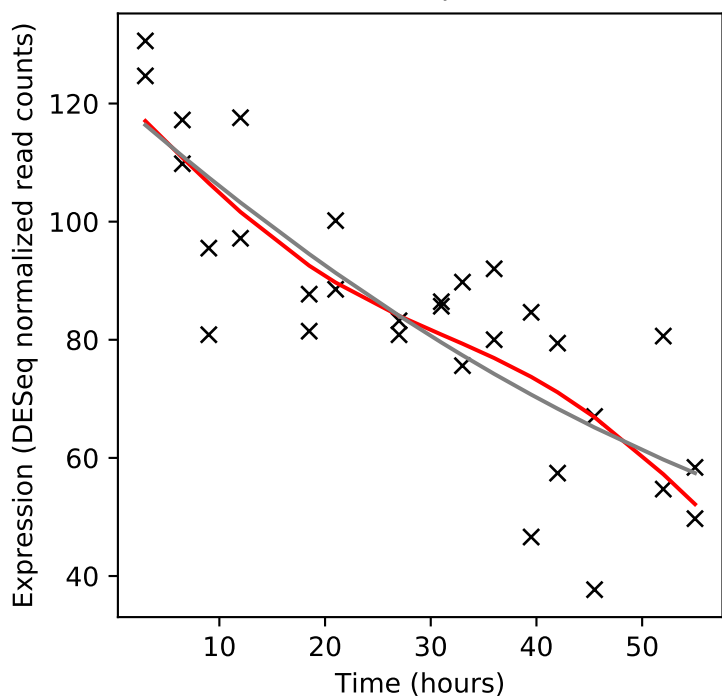
Rv1410c/-



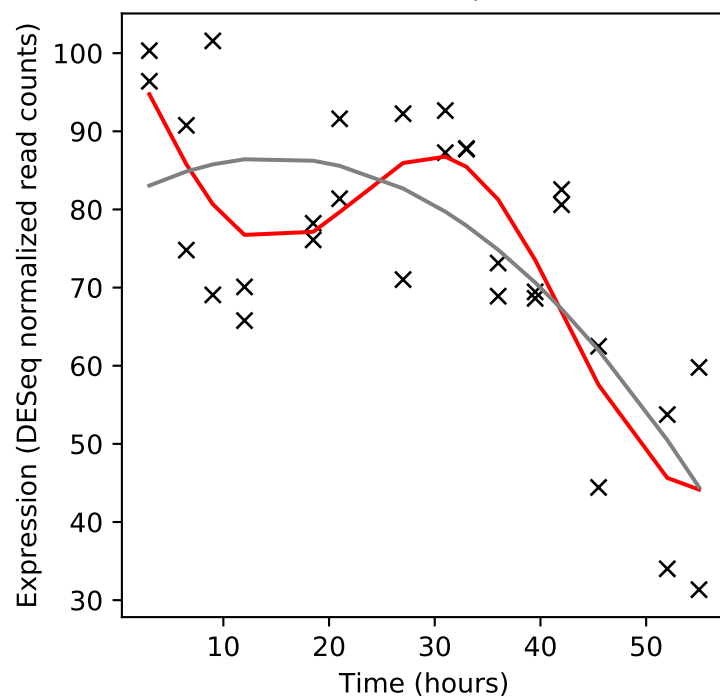
Rv1411c/lprG



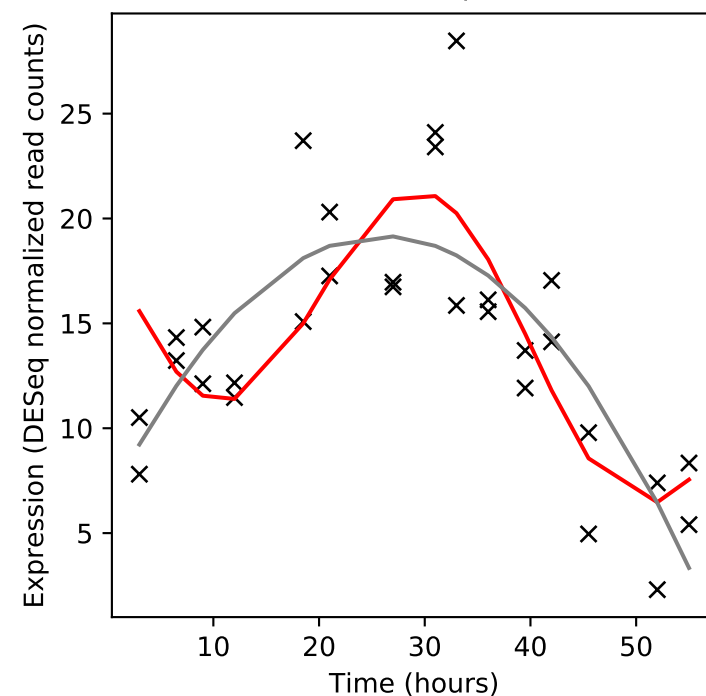
Rv1412/ribC



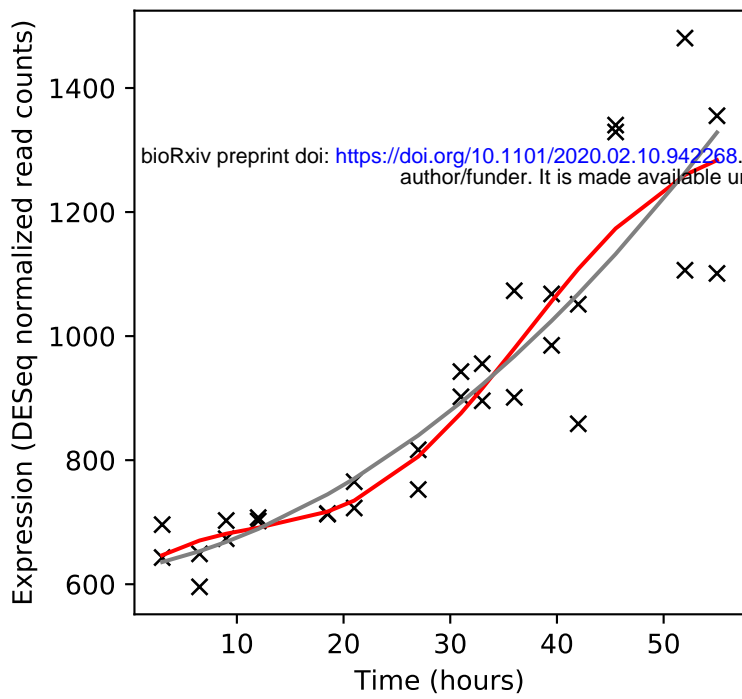
Rv1413/-



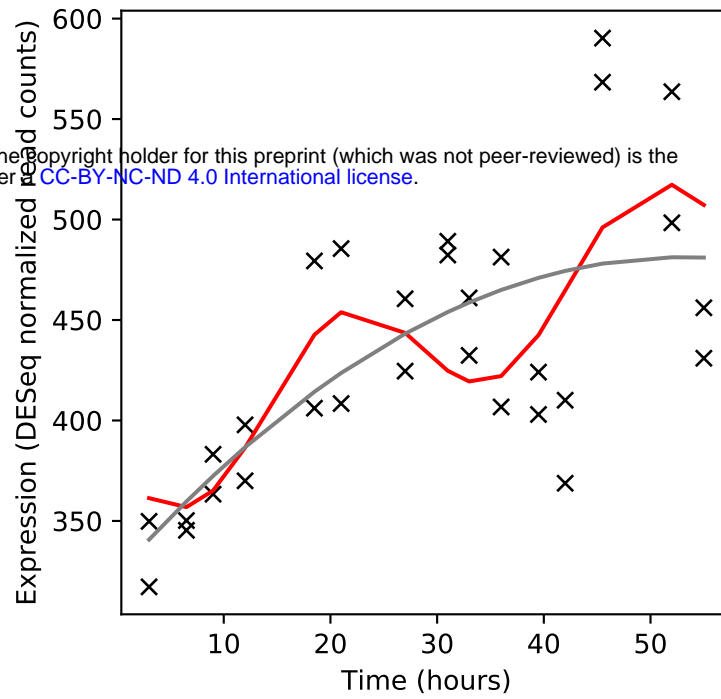
Rv1414/-



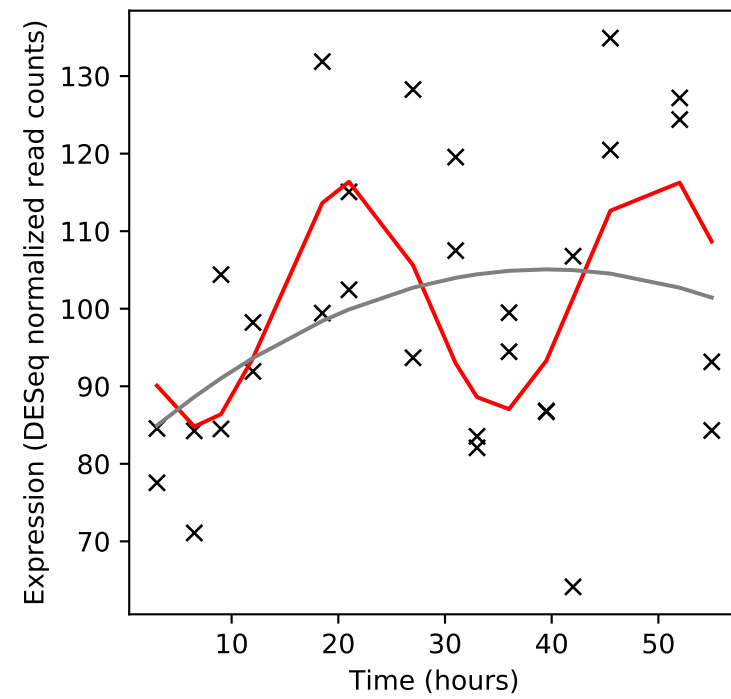
Rv1415/ribA2



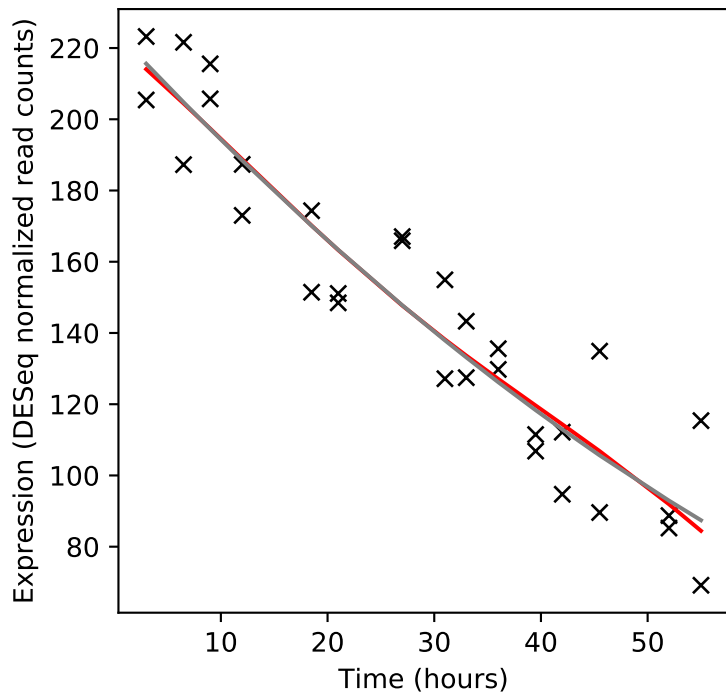
Rv1416/ribH



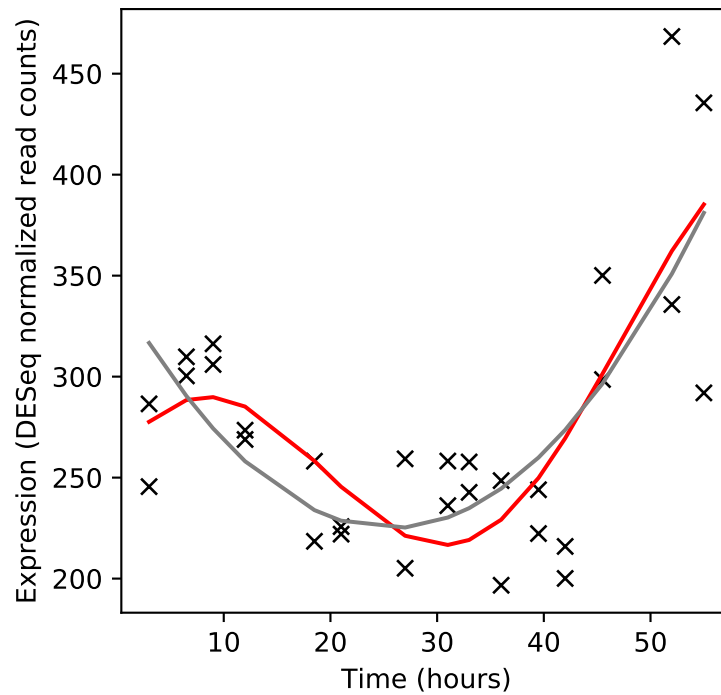
Rv1417/-



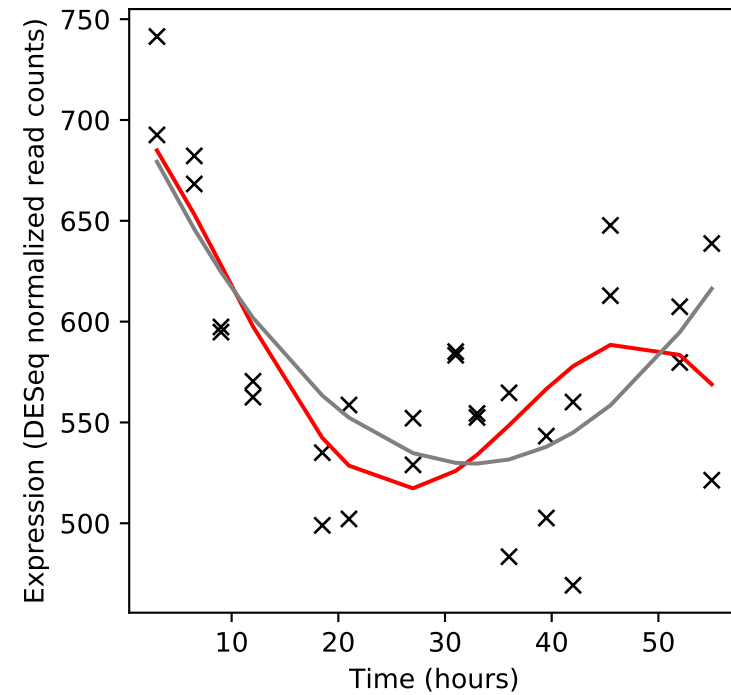
Rv1418/lprH



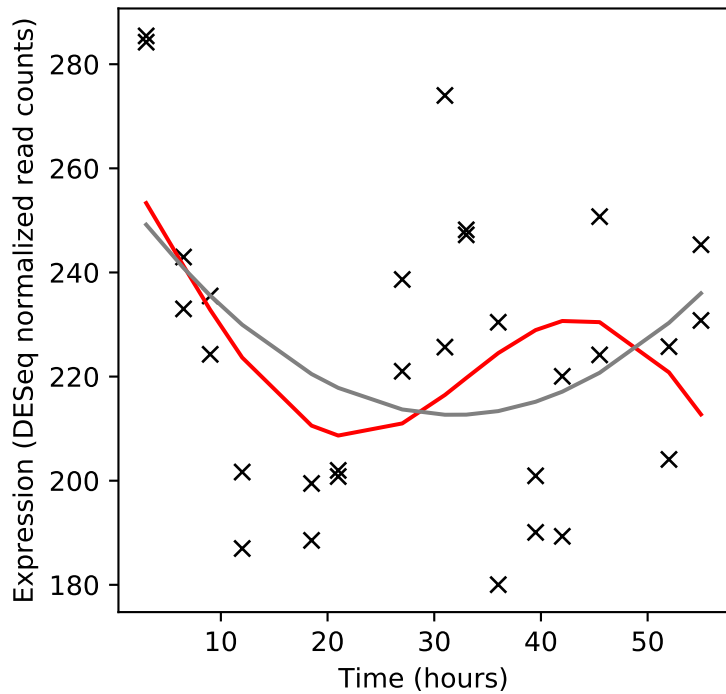
Rv1419/-



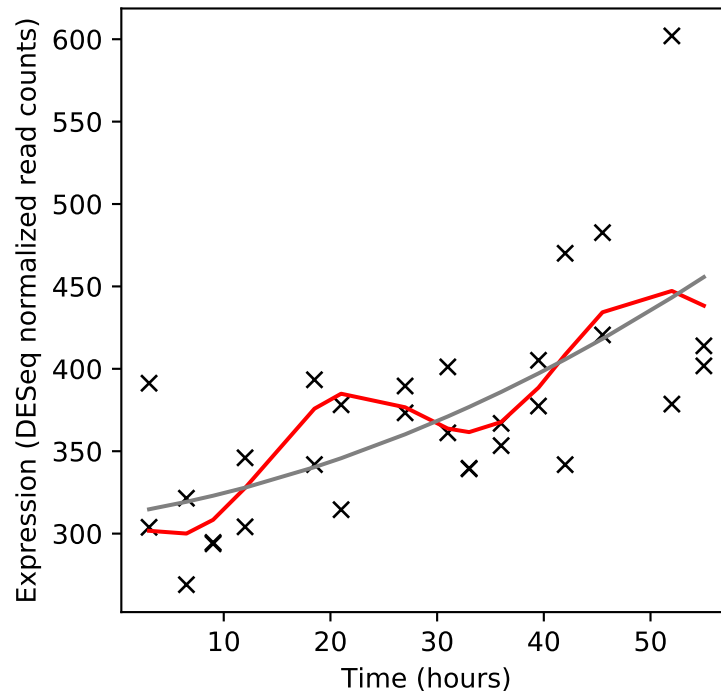
Rv1420/uvrC



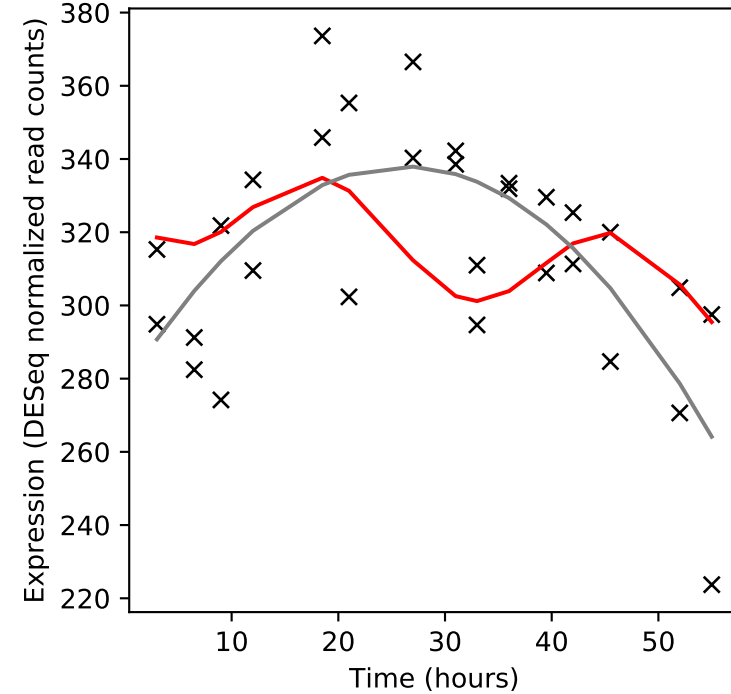
Rv1421/-



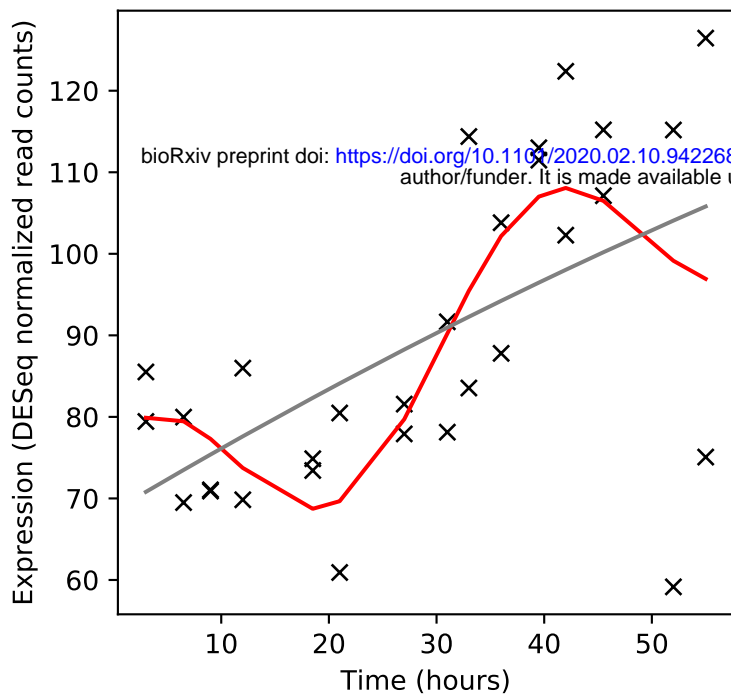
Rv1422/-



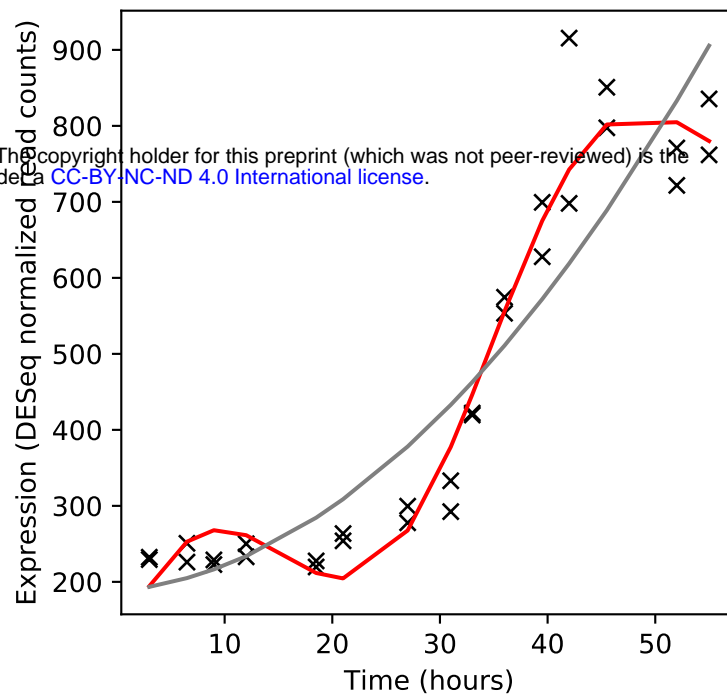
Rv1423/whiA



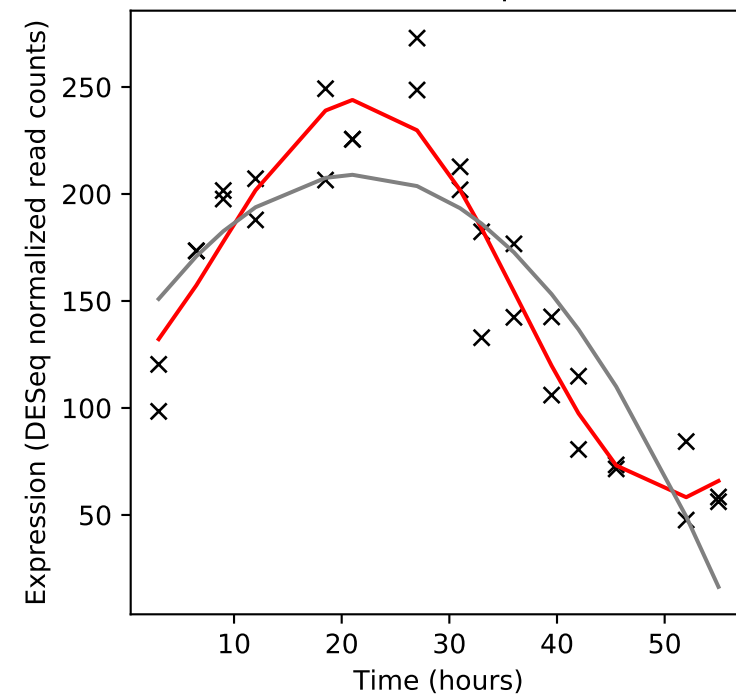
Rv1424c/-



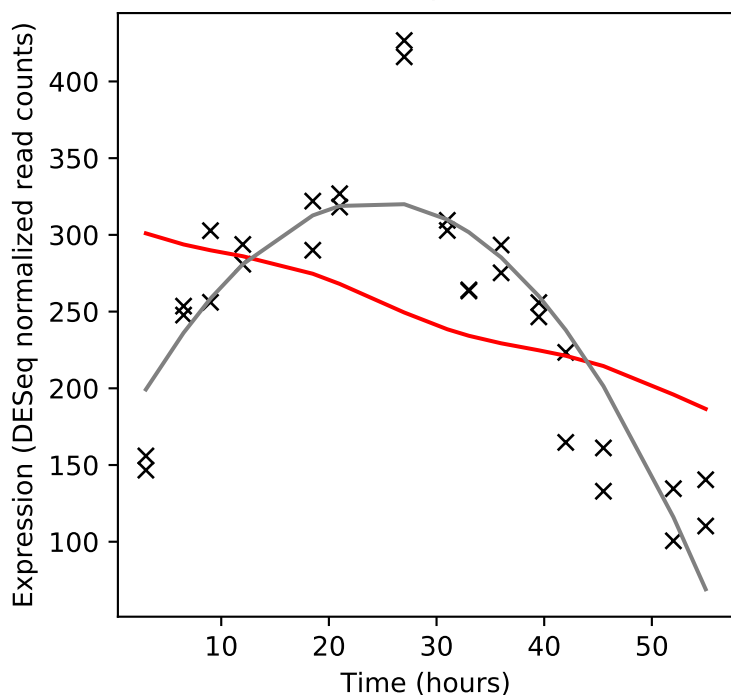
Rv1425/-



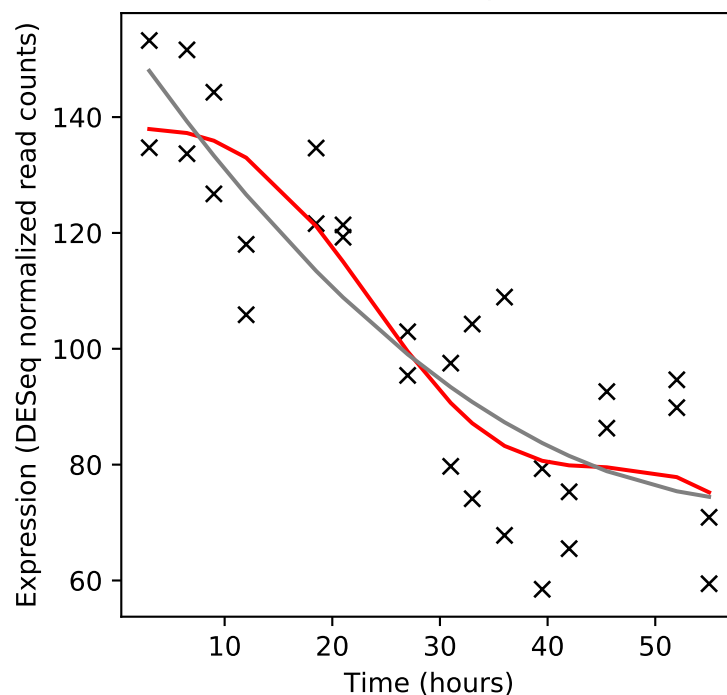
Rv1426c/lipO



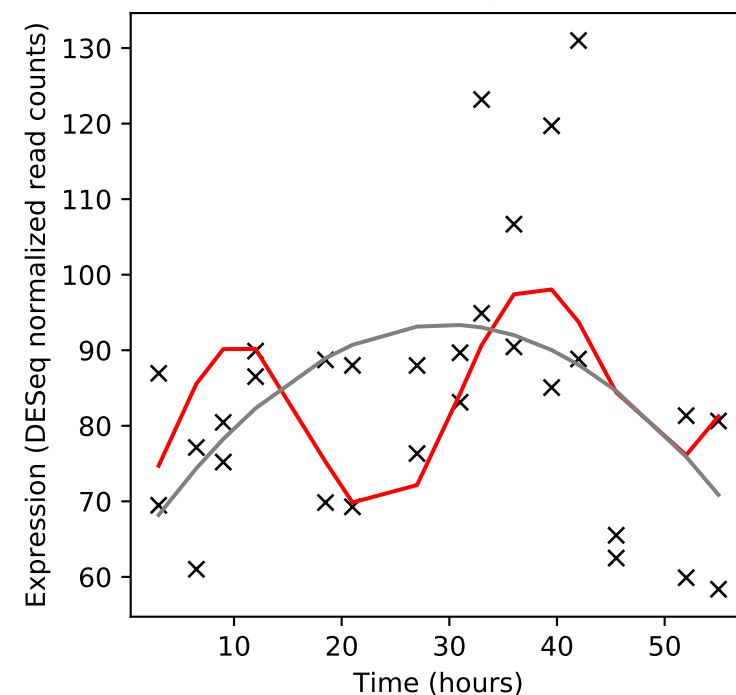
Rv1427c/fadD12



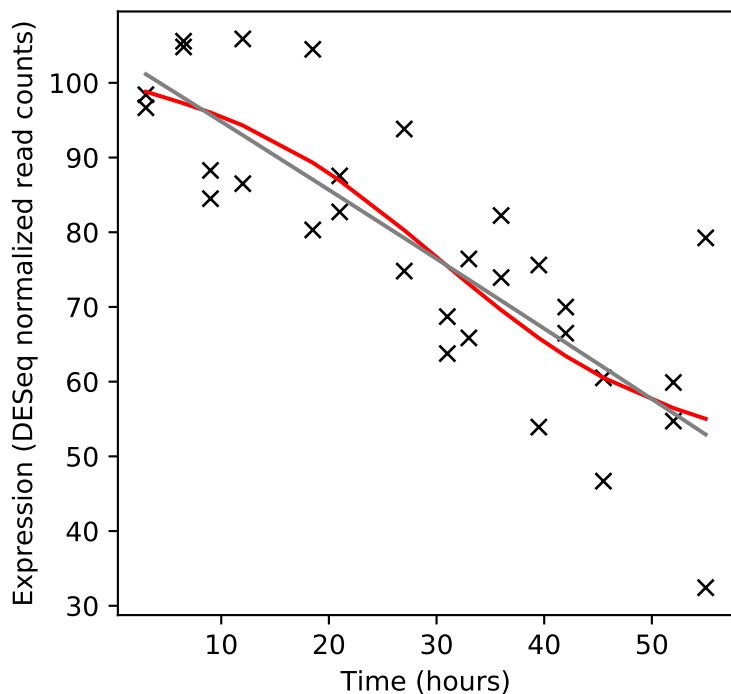
Rv1428c/-



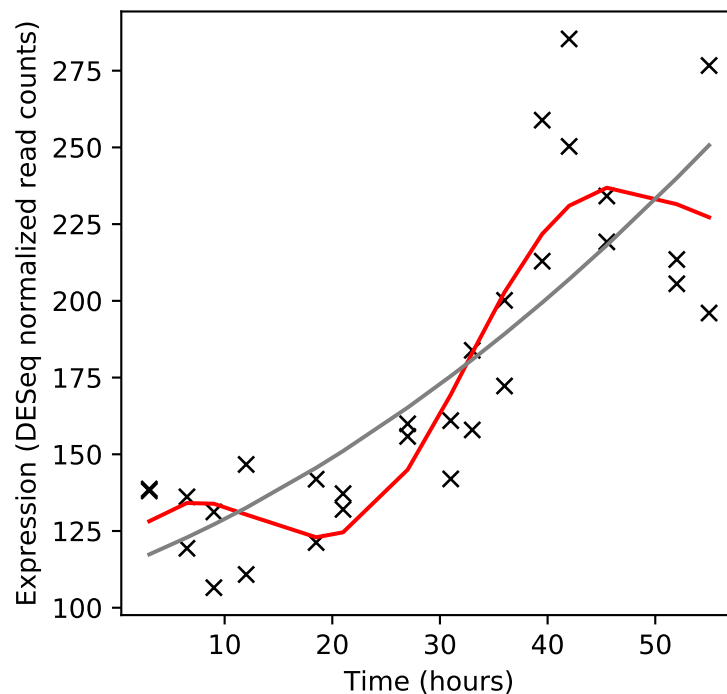
Rv1429/-



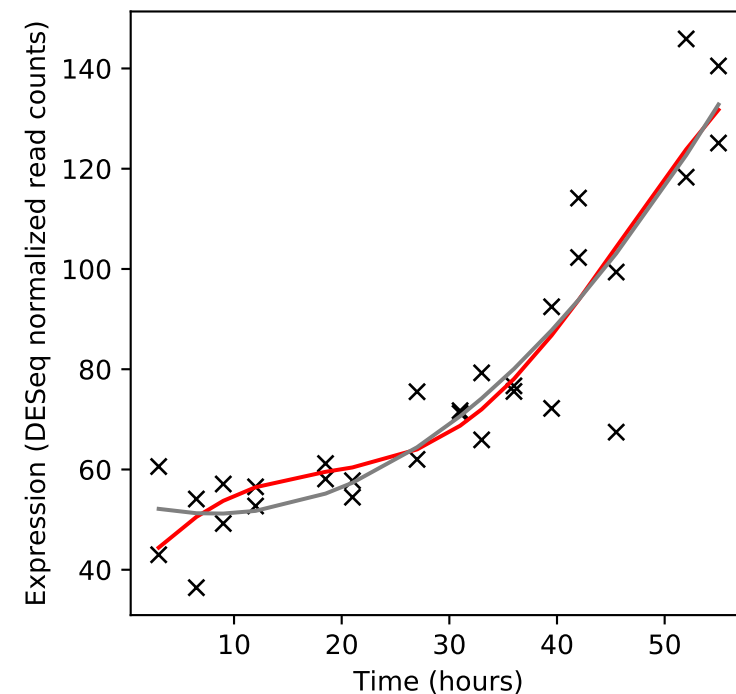
Rv1430/PE16



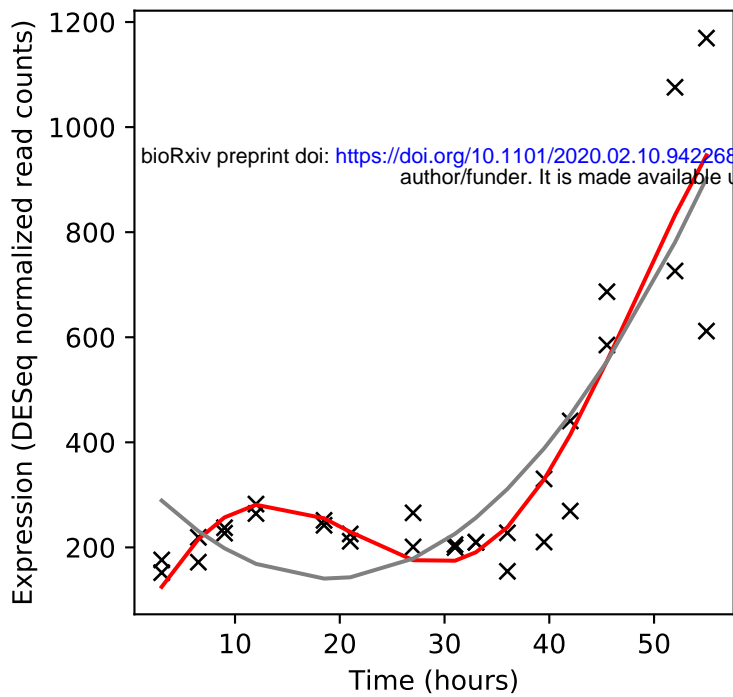
Rv1431/-



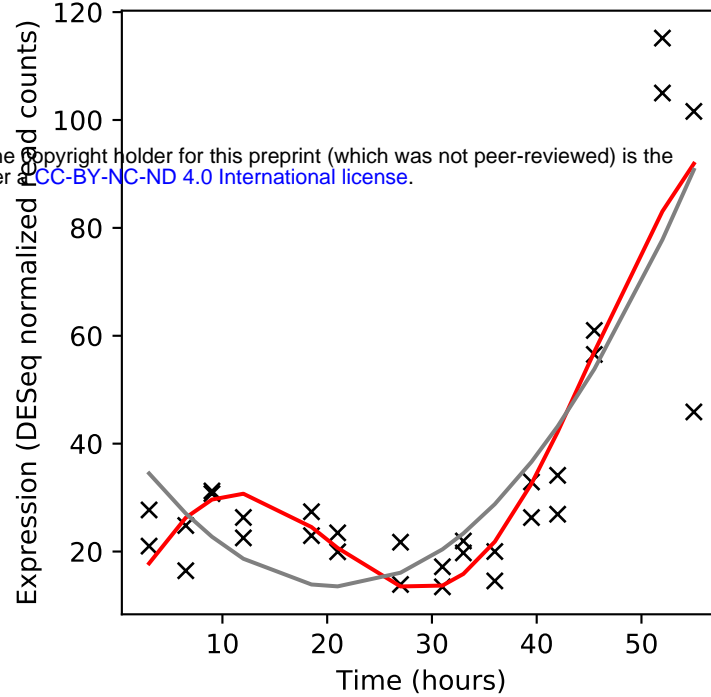
Rv1432/-



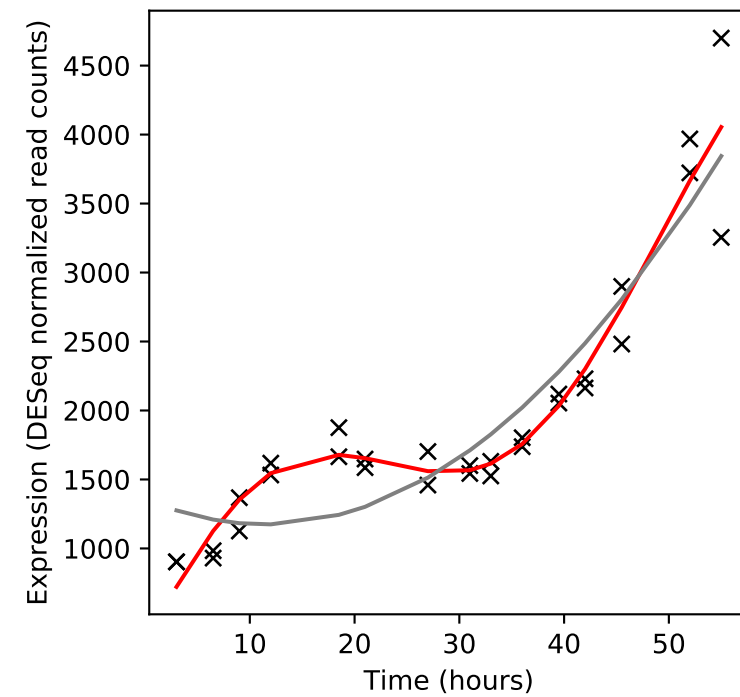
Rv1433/-



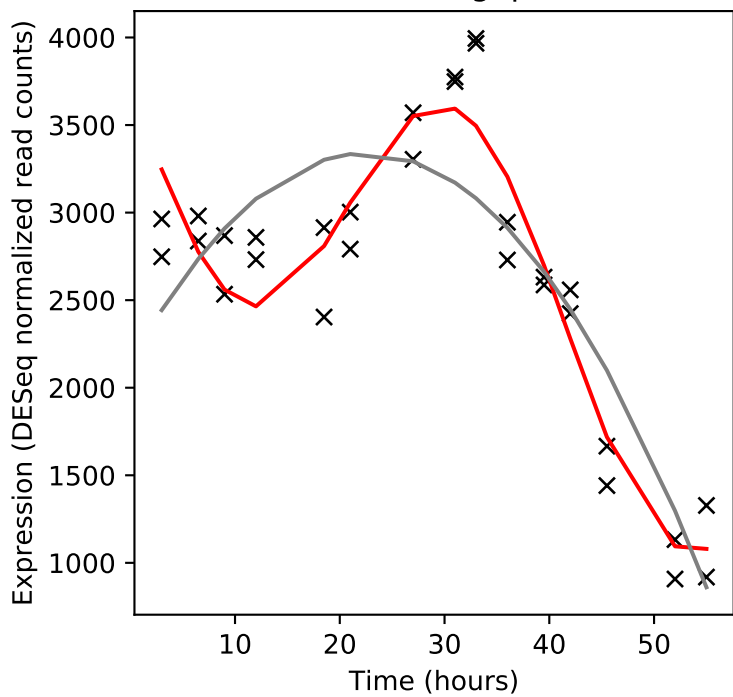
Rv1434/-



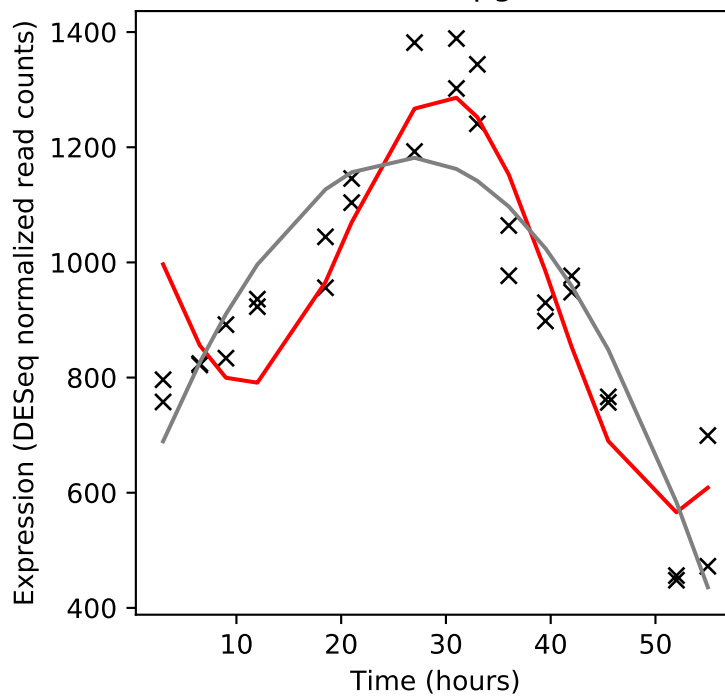
Rv1435c/-



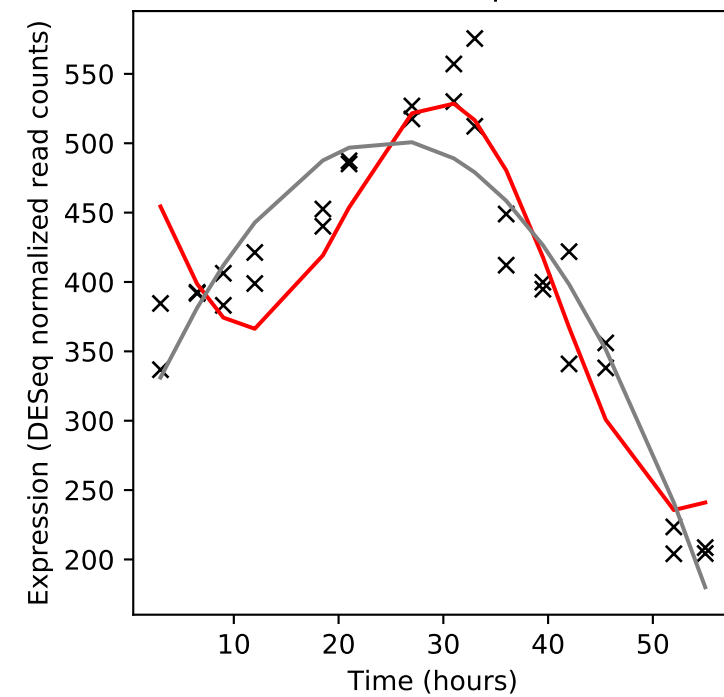
Rv1436/gap



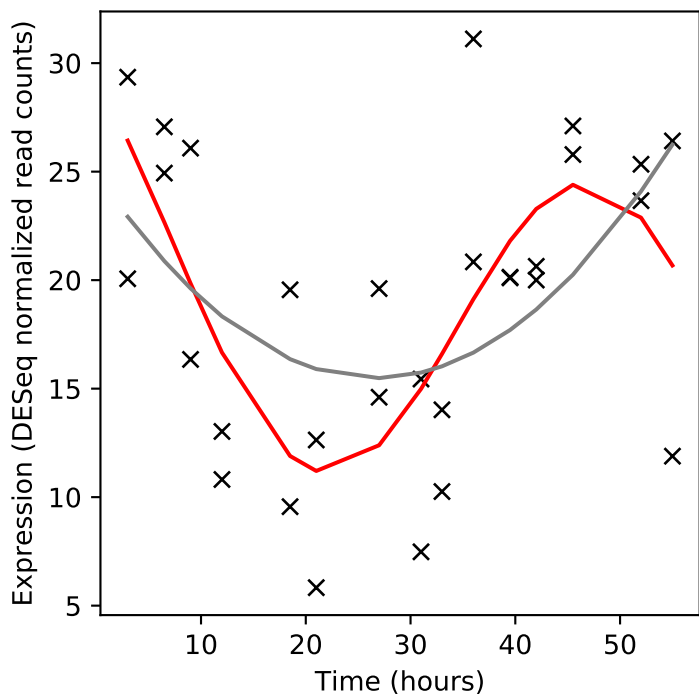
Rv1437/pgk



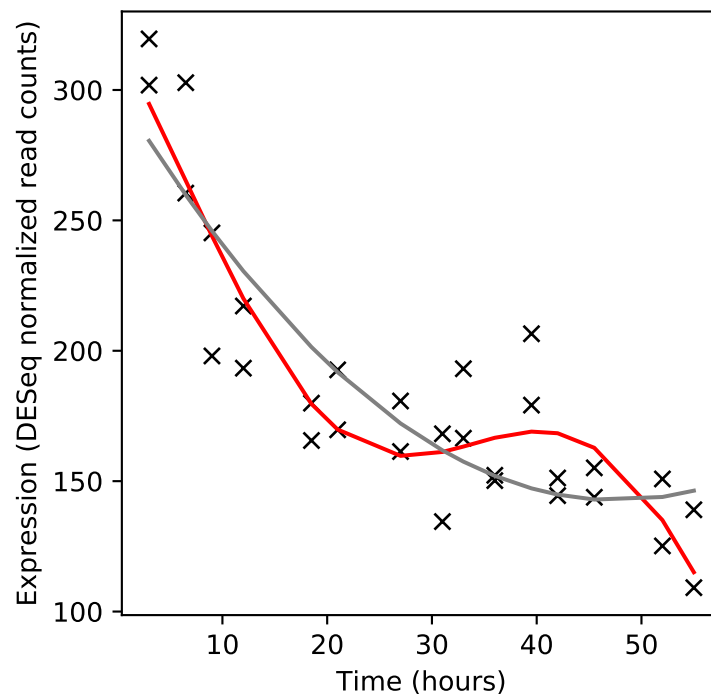
Rv1438/tpi



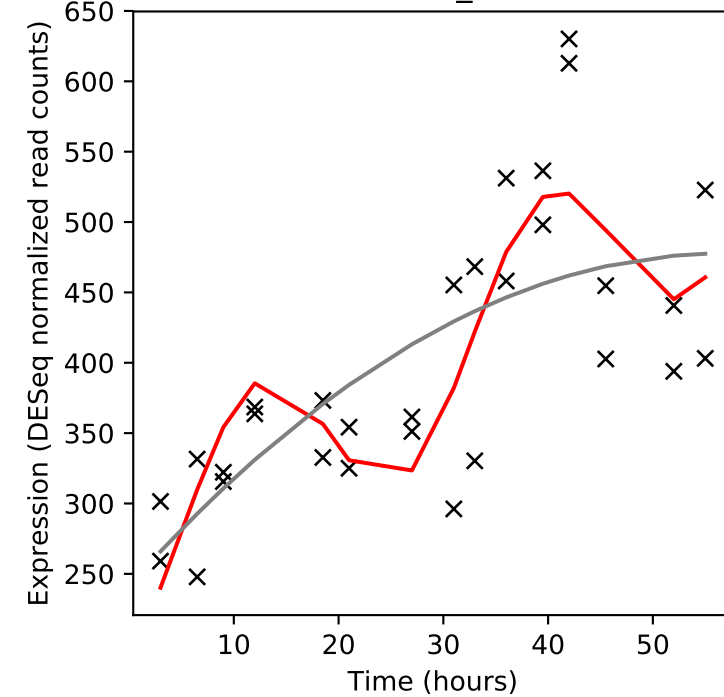
Rv1439c/-



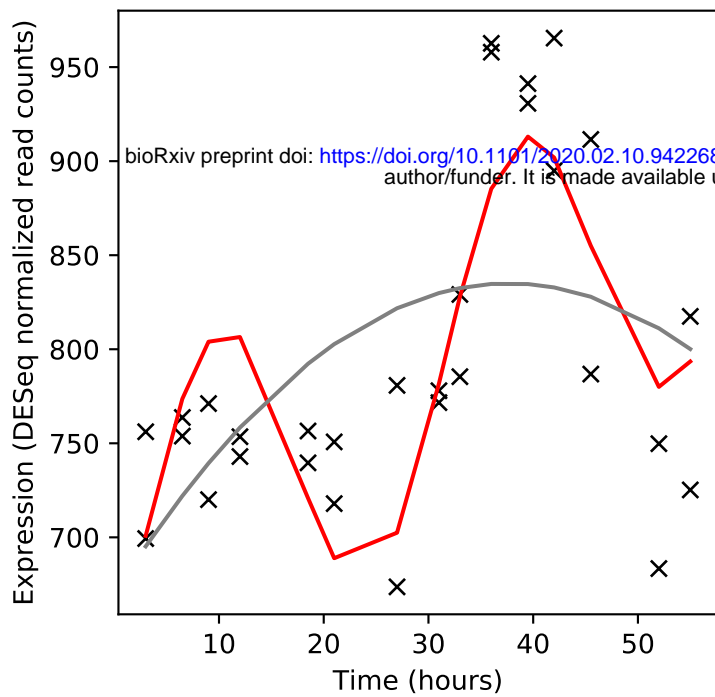
Rv1440/secG



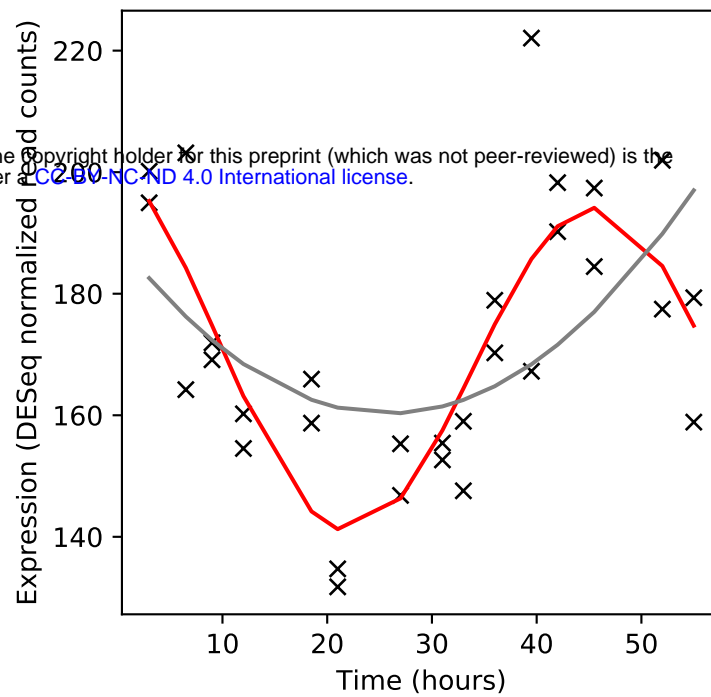
Rv1441c/PE_PGRS26



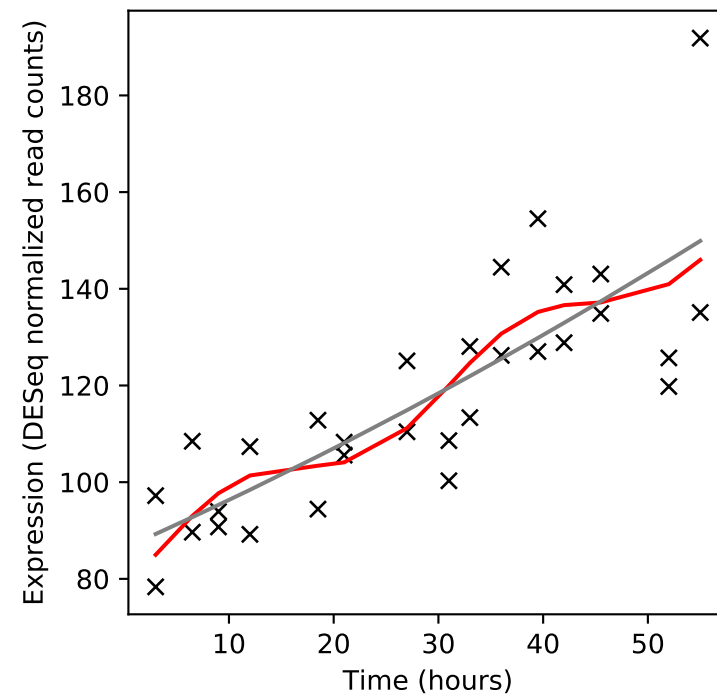
Rv1442/bisC



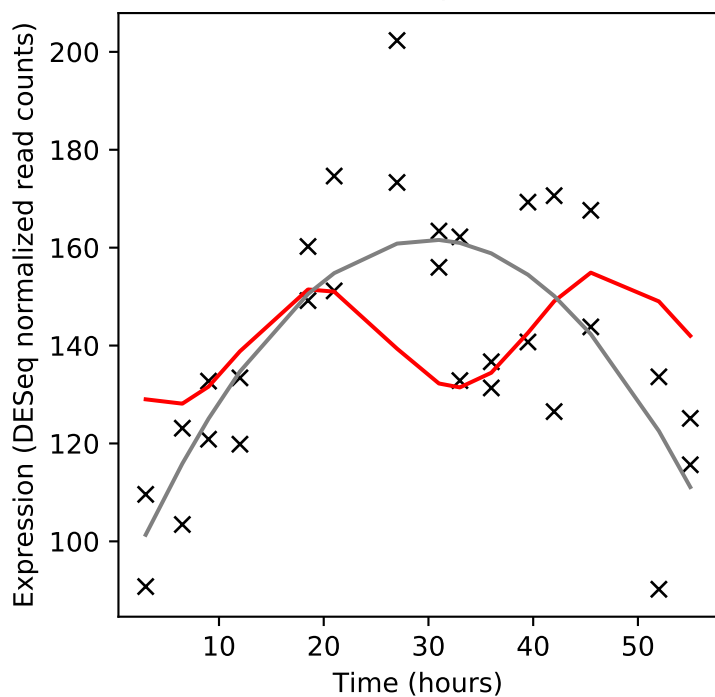
Rv1443c/-



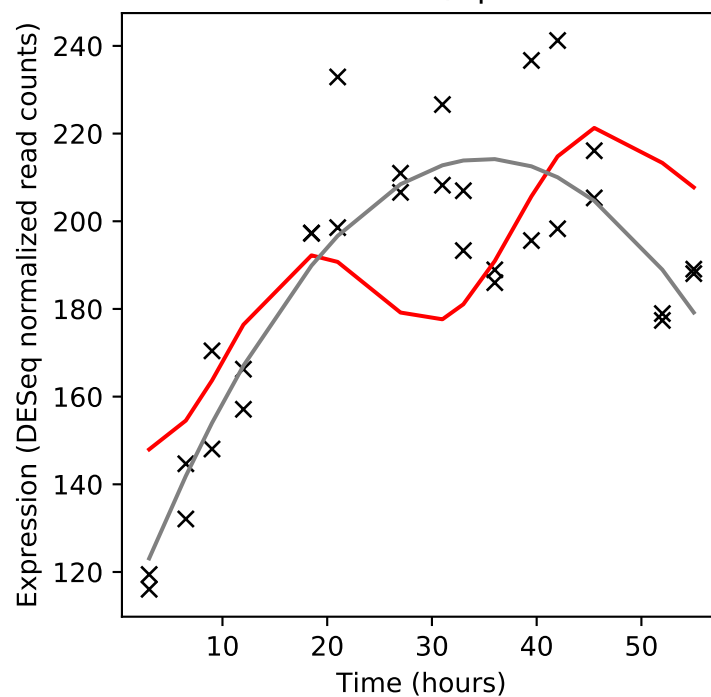
Rv1444c/-



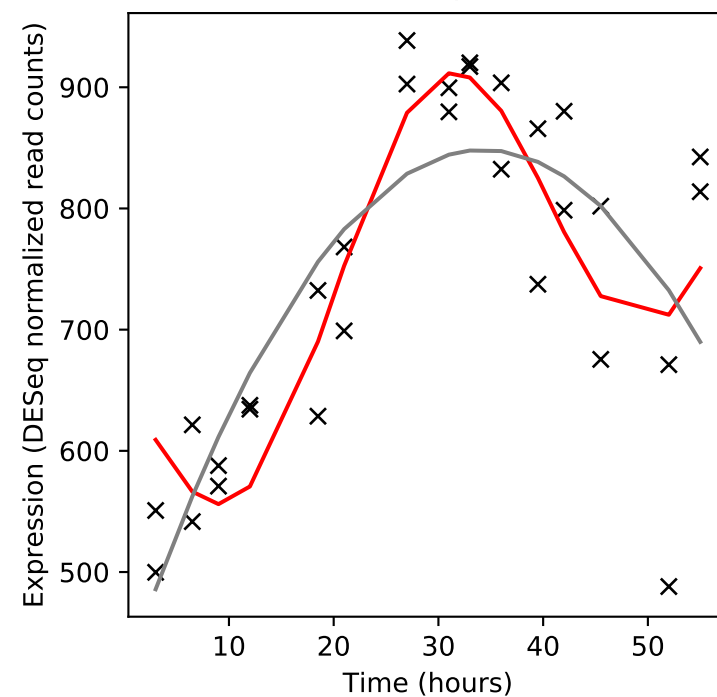
Rv1445c/devB



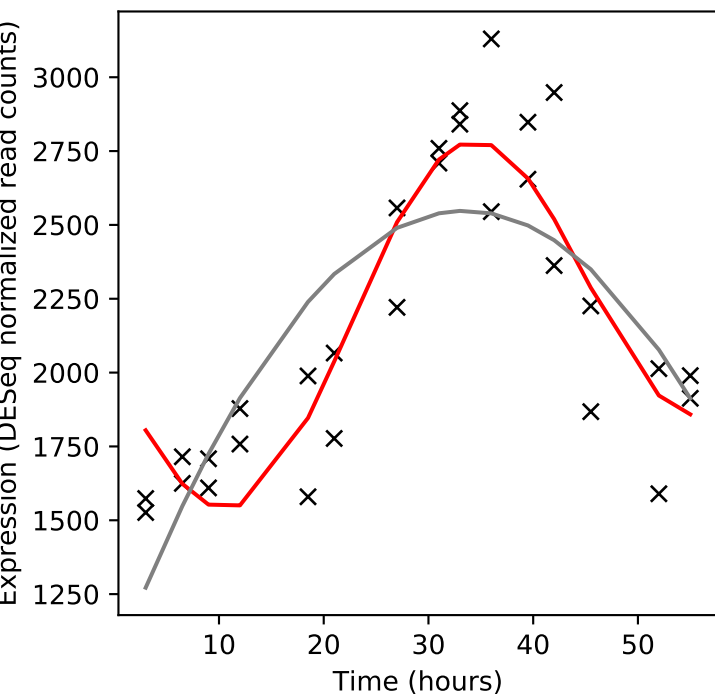
Rv1446c/opcA



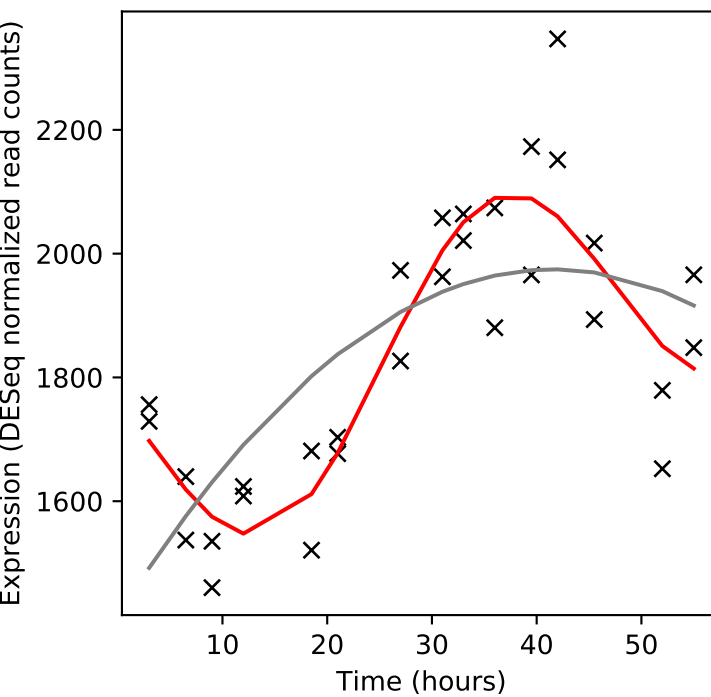
Rv1447c/zwf2



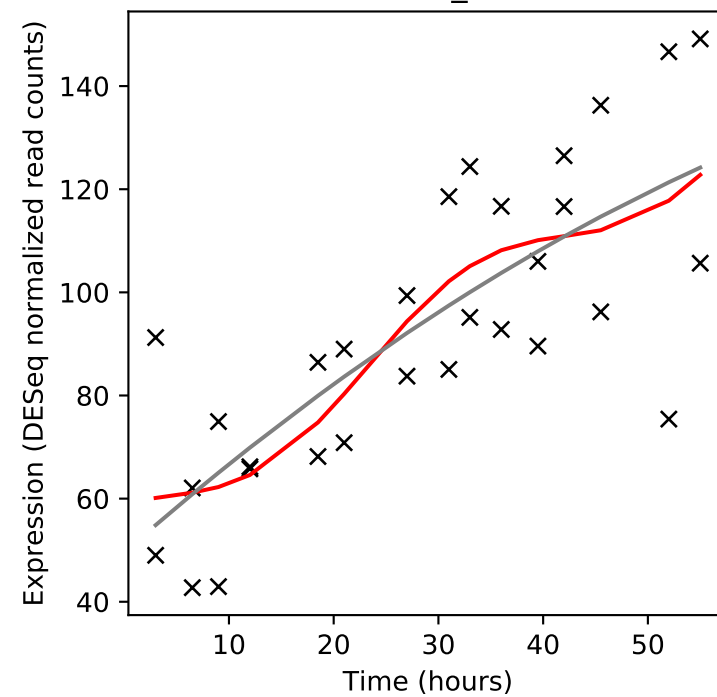
Rv1448c/tal



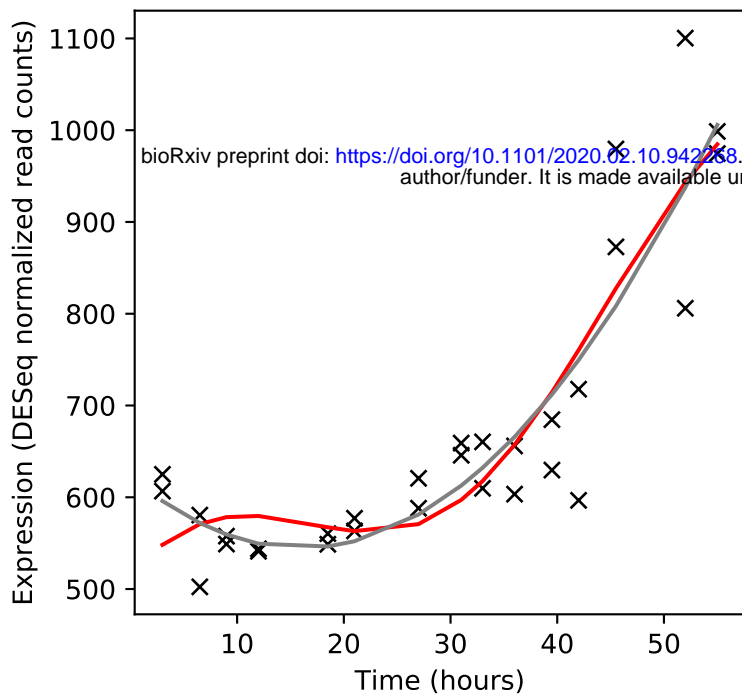
Rv1449c/tkt



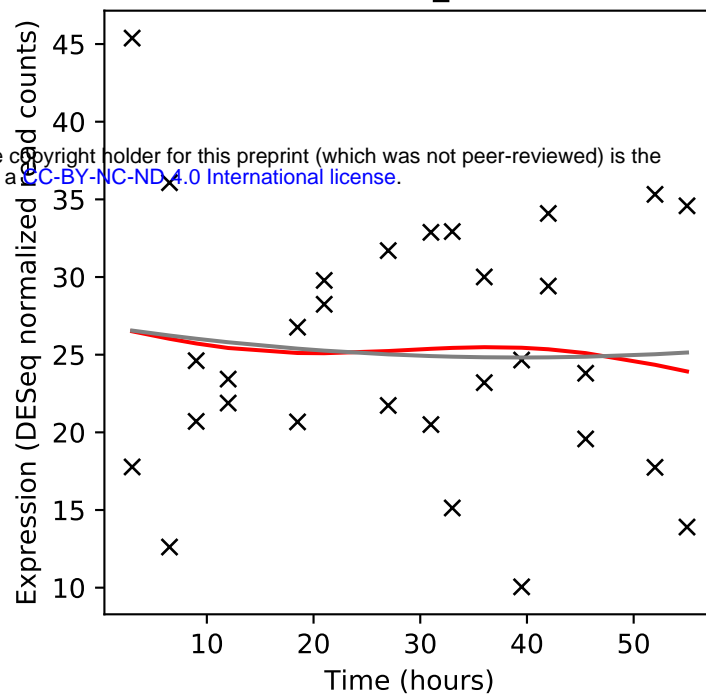
Rv1450c/PE_PGRS27



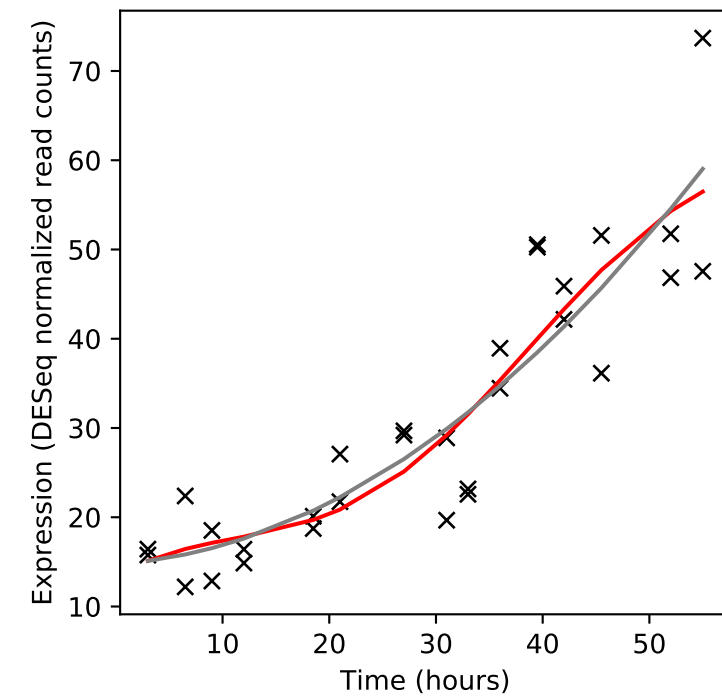
Rv1451/ctaB



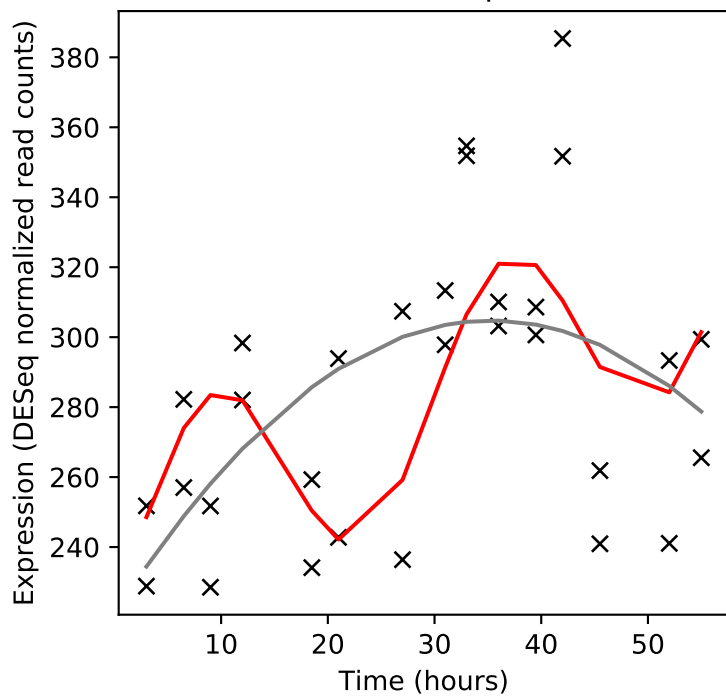
Rv1452c/PE_PGRS28



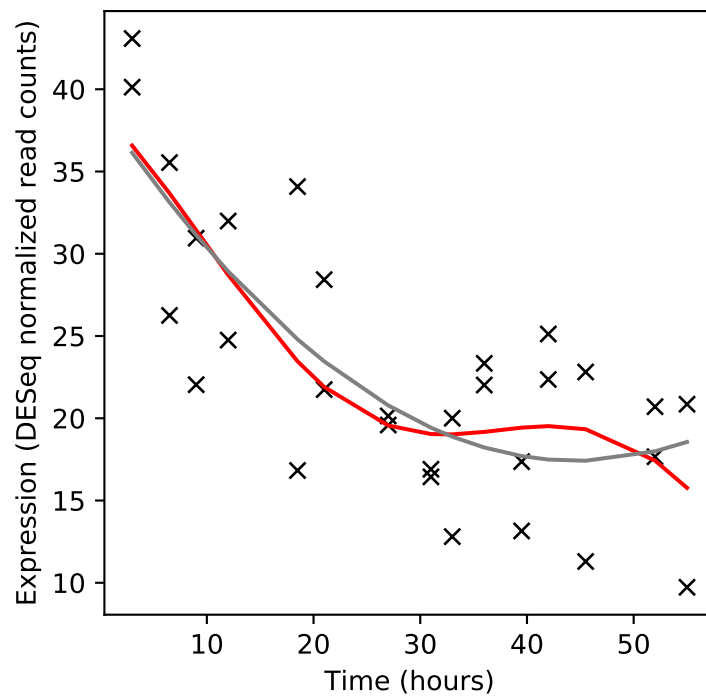
Rv1453/-



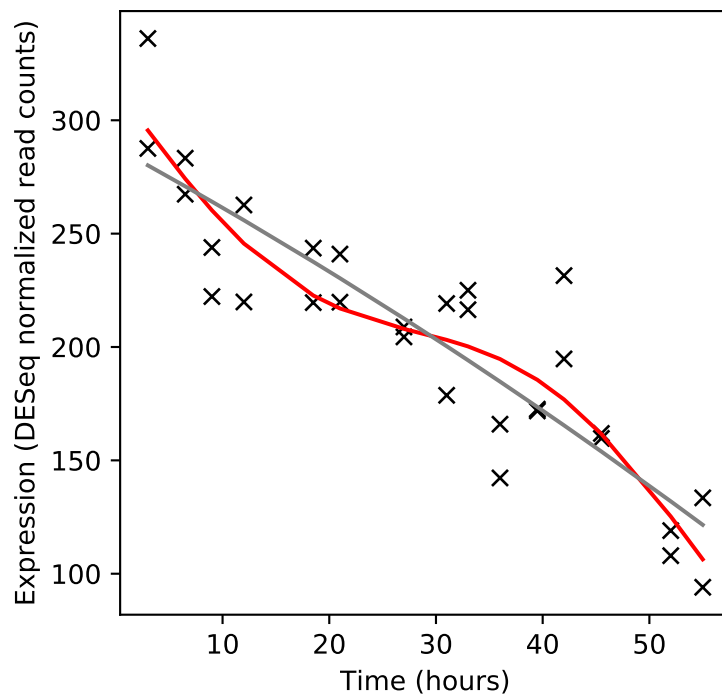
Rv1454c/qor



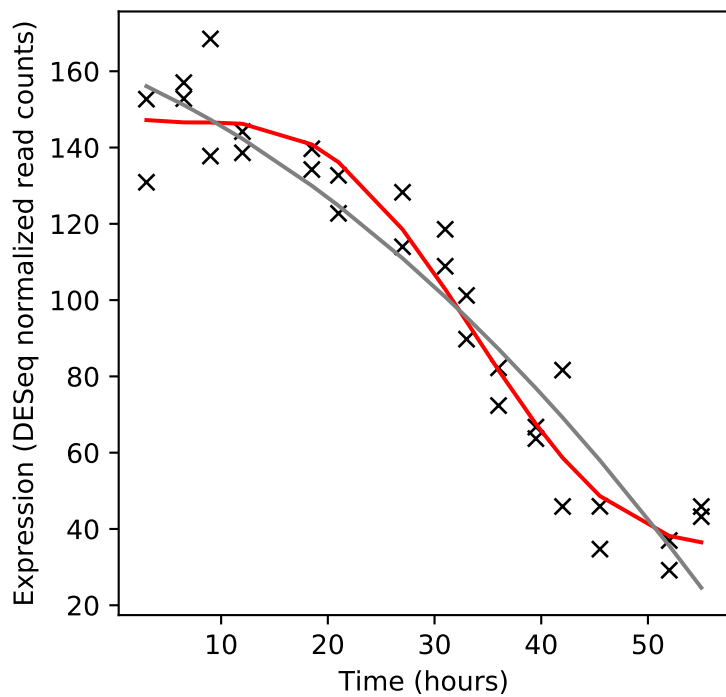
Rv1455/-



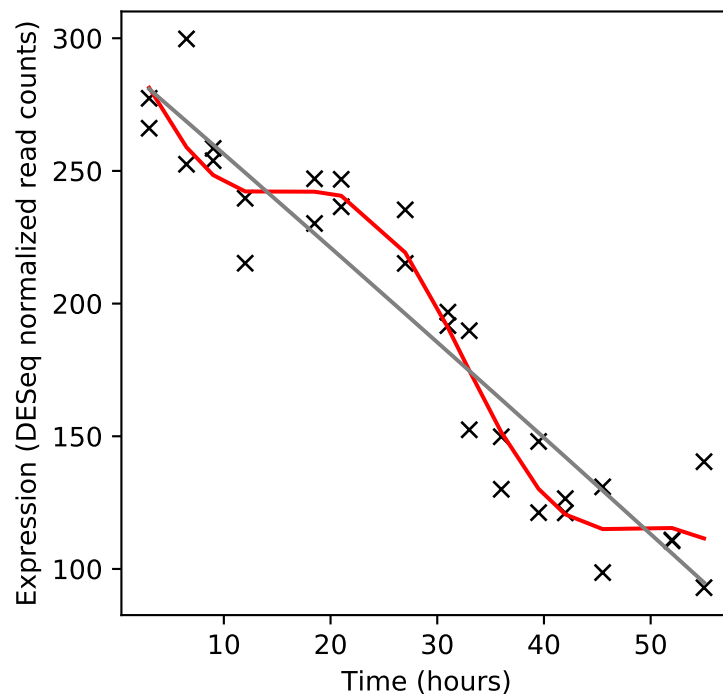
Rv1456c/-



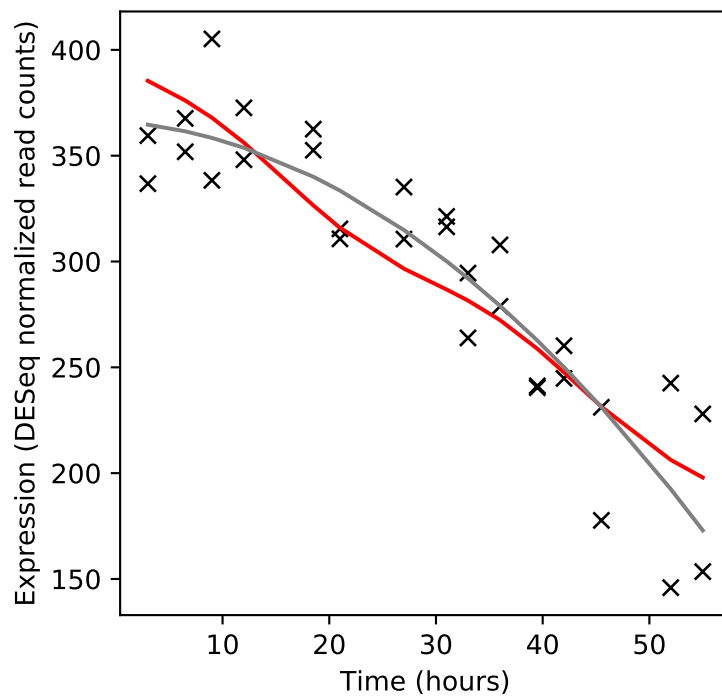
Rv1457c/-



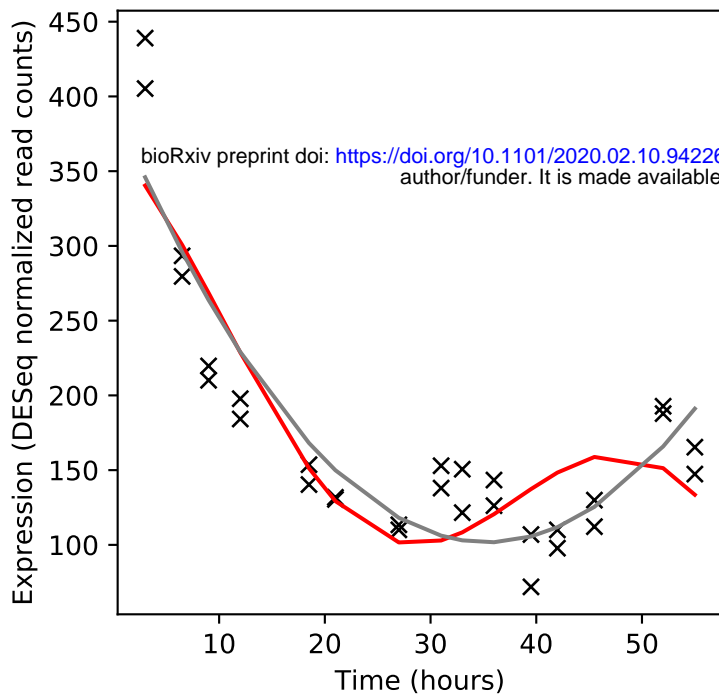
Rv1458c/-



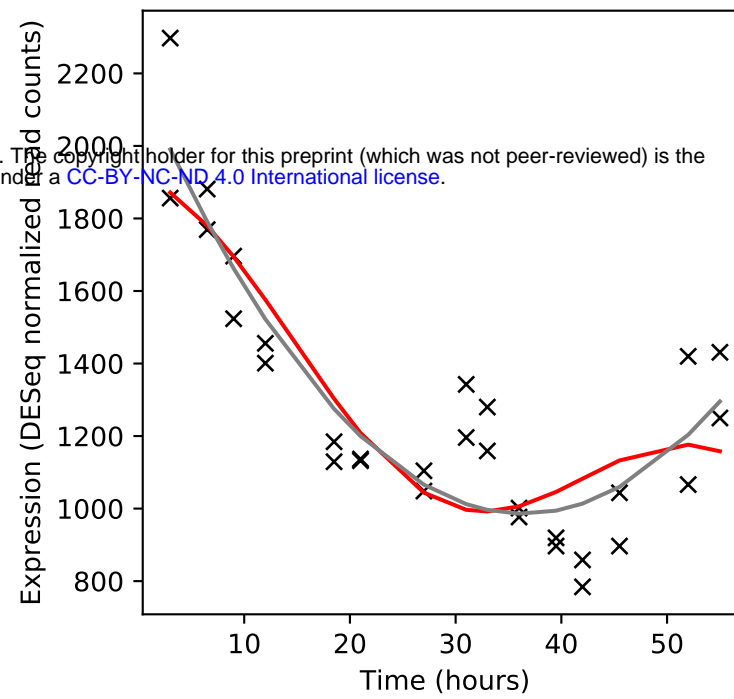
Rv1459c/-



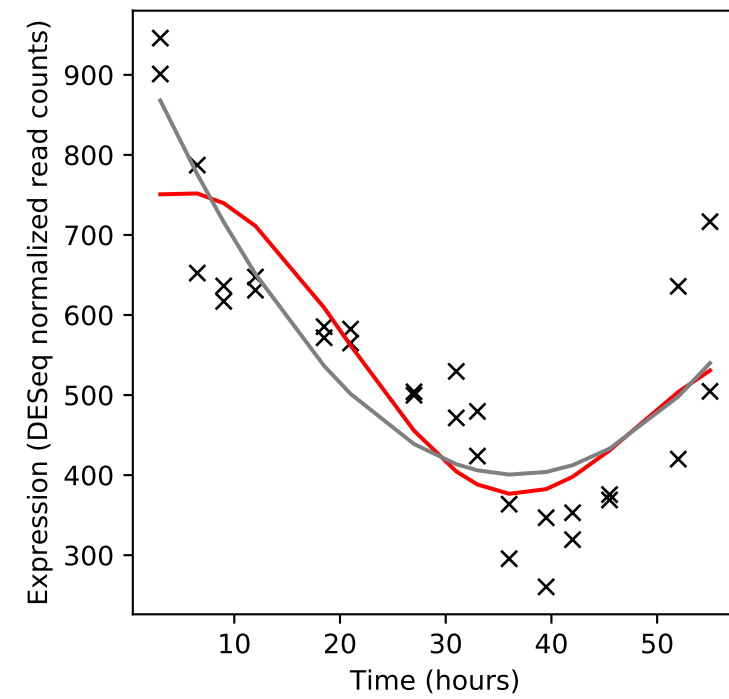
Rv1460/-



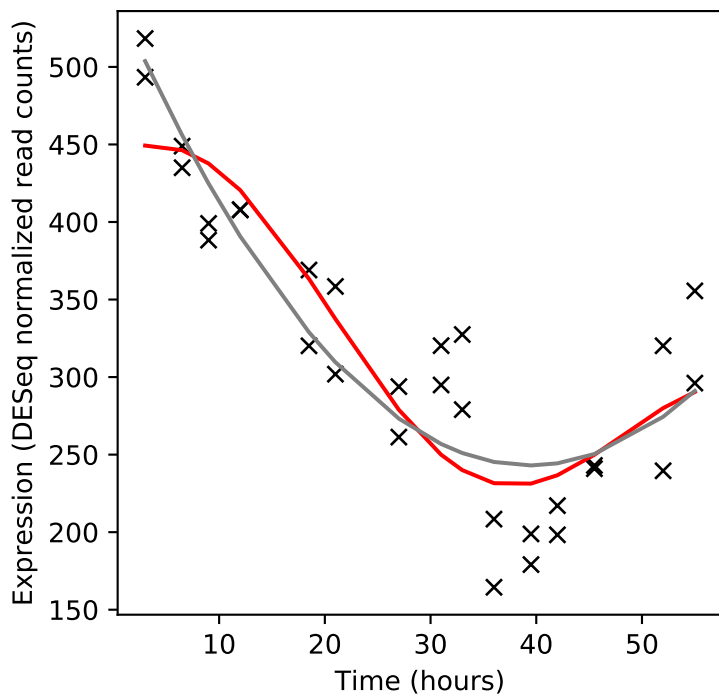
Rv1461/-



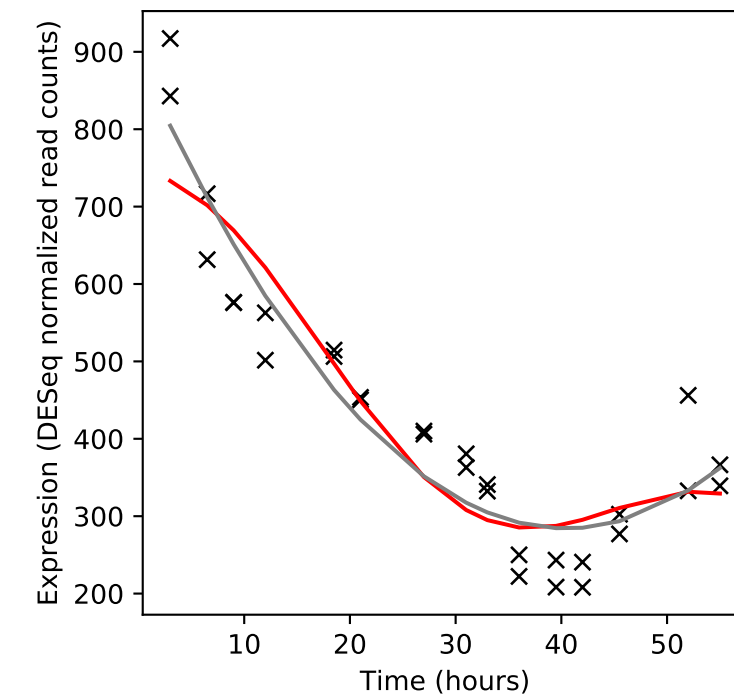
Rv1462/-



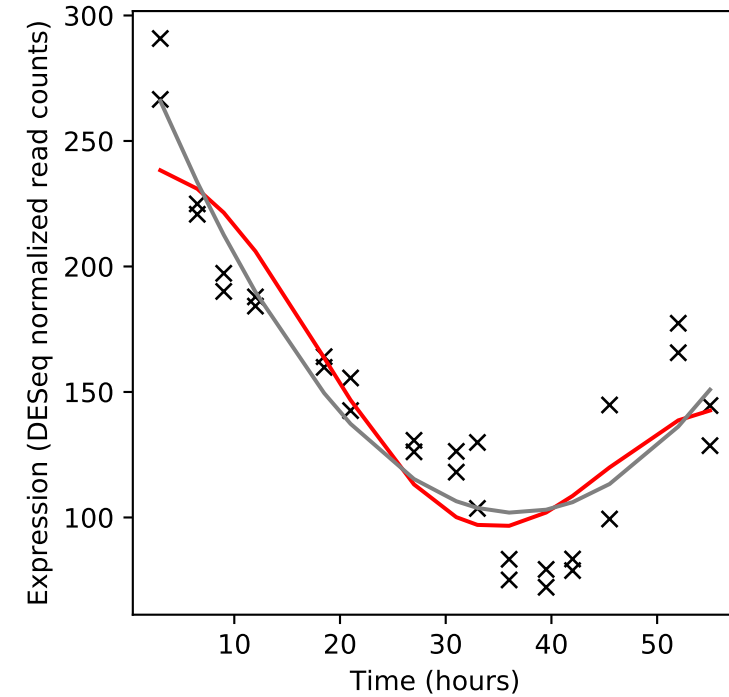
Rv1463/-



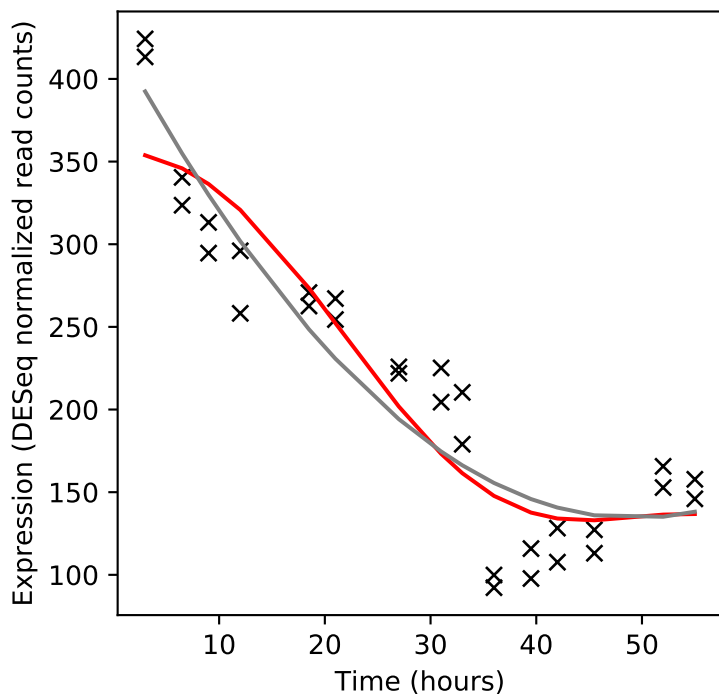
Rv1464/csd



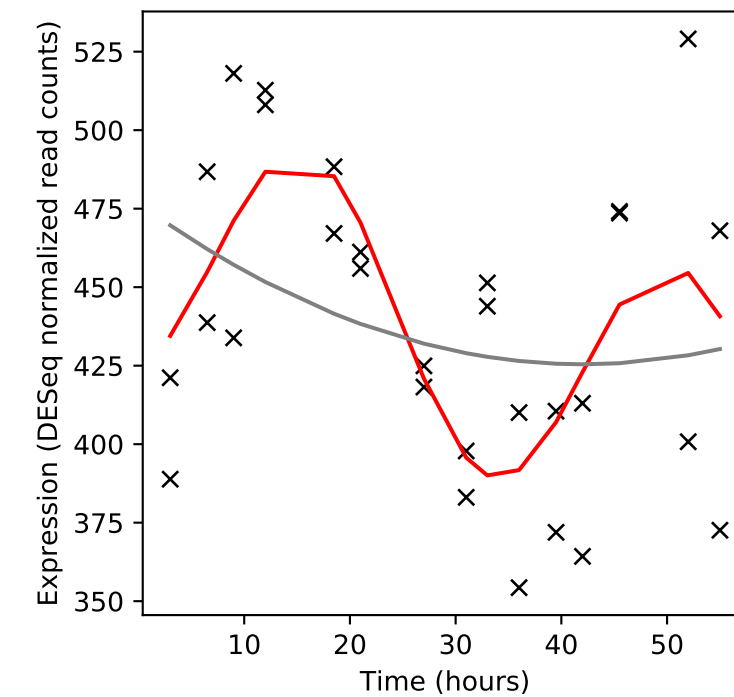
Rv1465/-



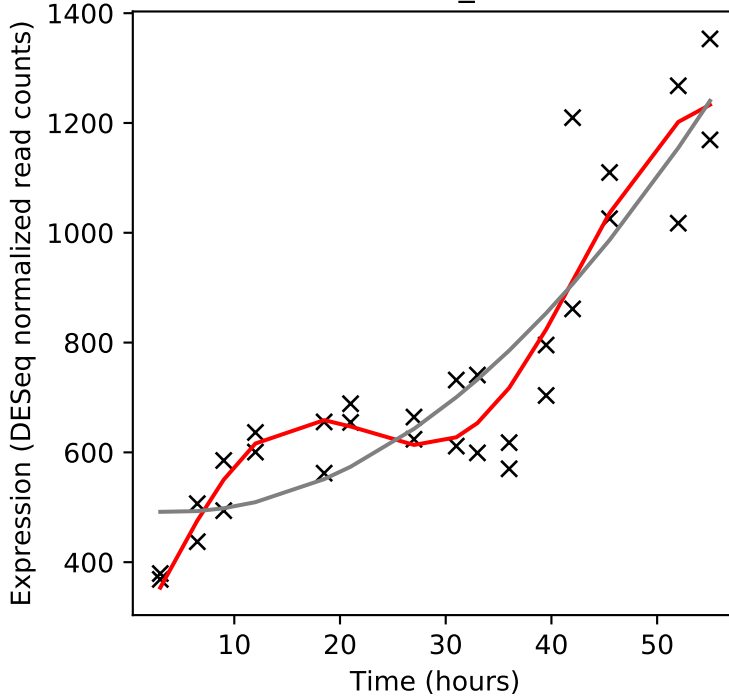
Rv1466/-



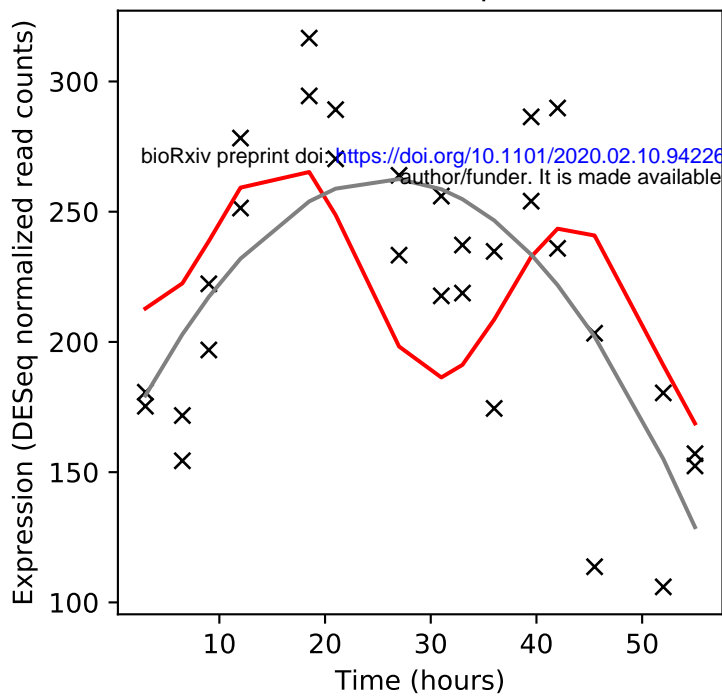
Rv1467c/fadE15



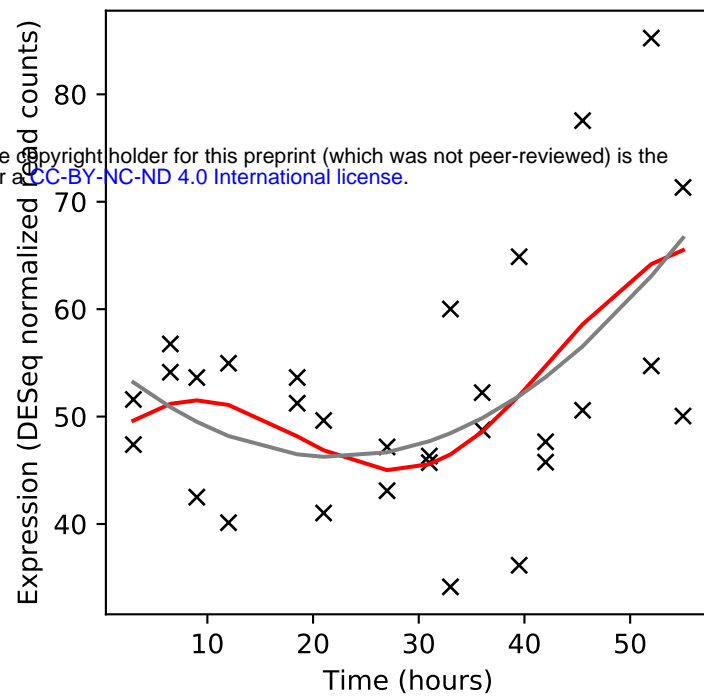
Rv1468c/PE_PGRS29



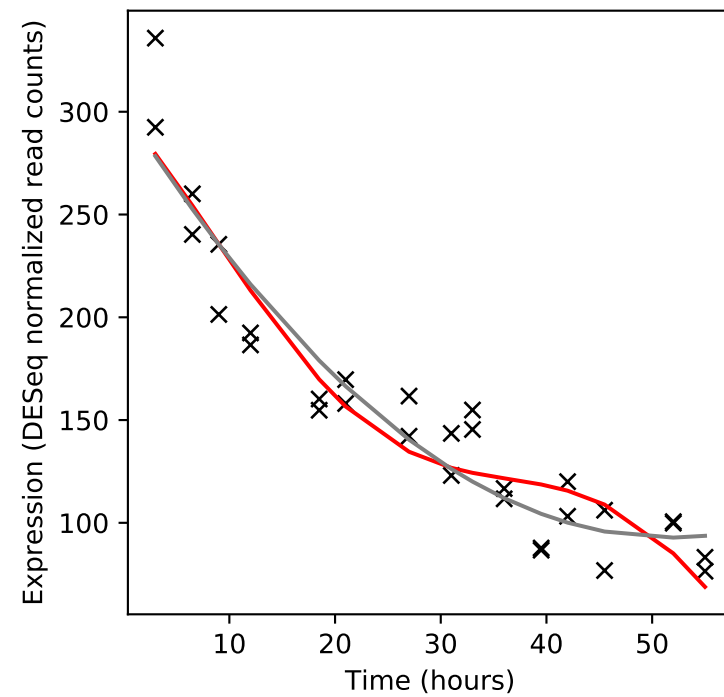
Rv1469/ctpD



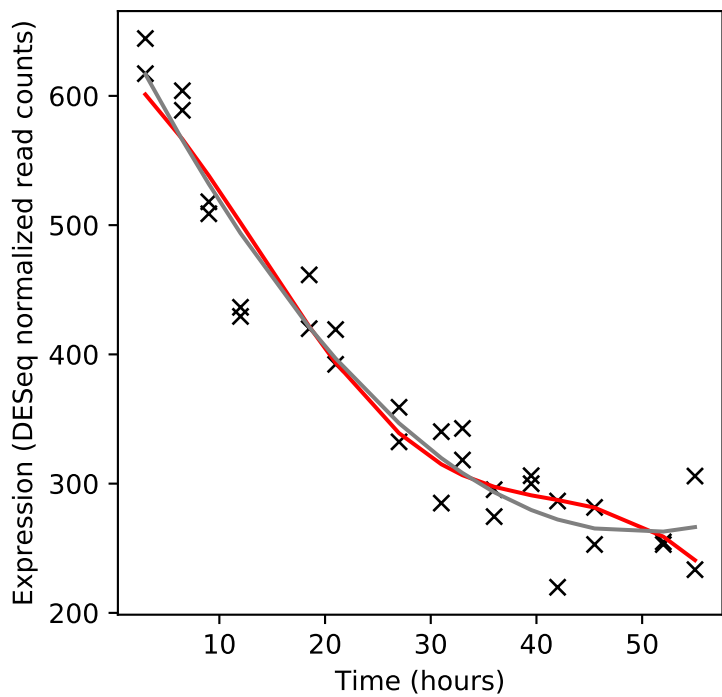
Rv1470/trxA



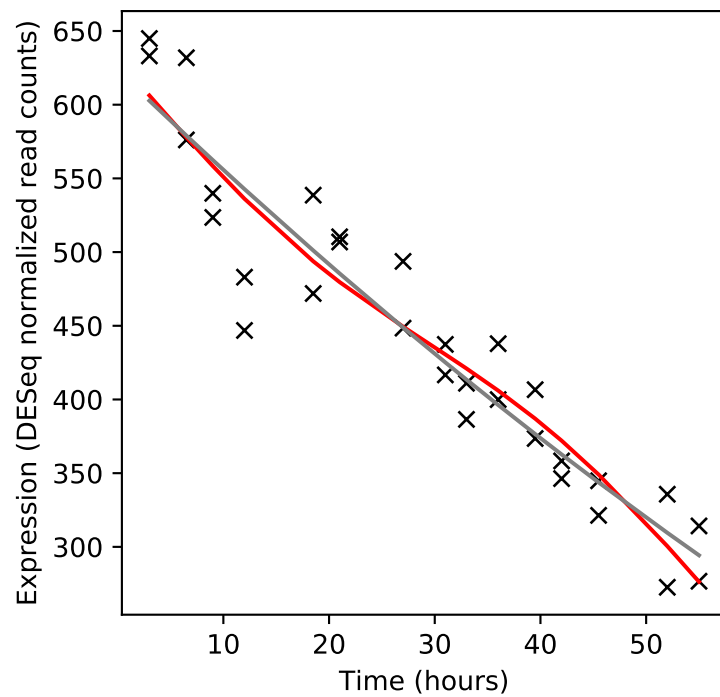
Rv1471/trxB1



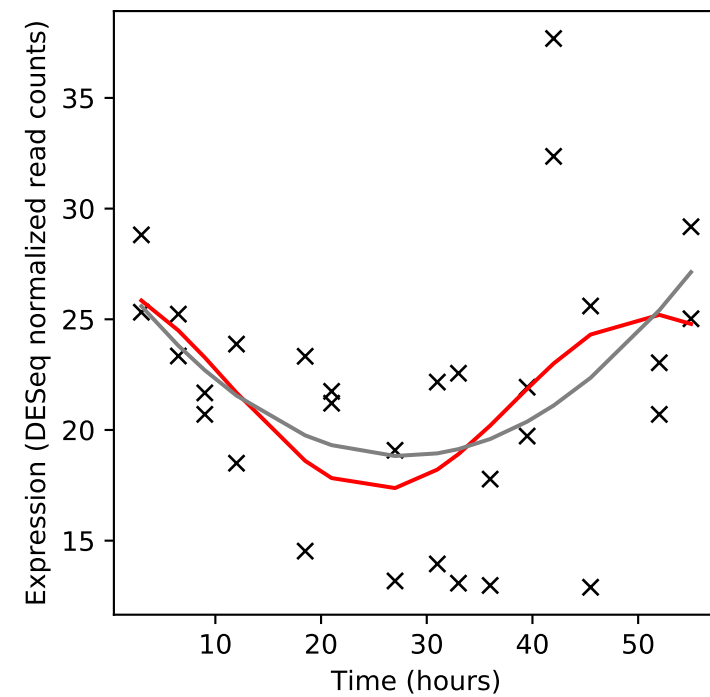
Rv1472/echA12



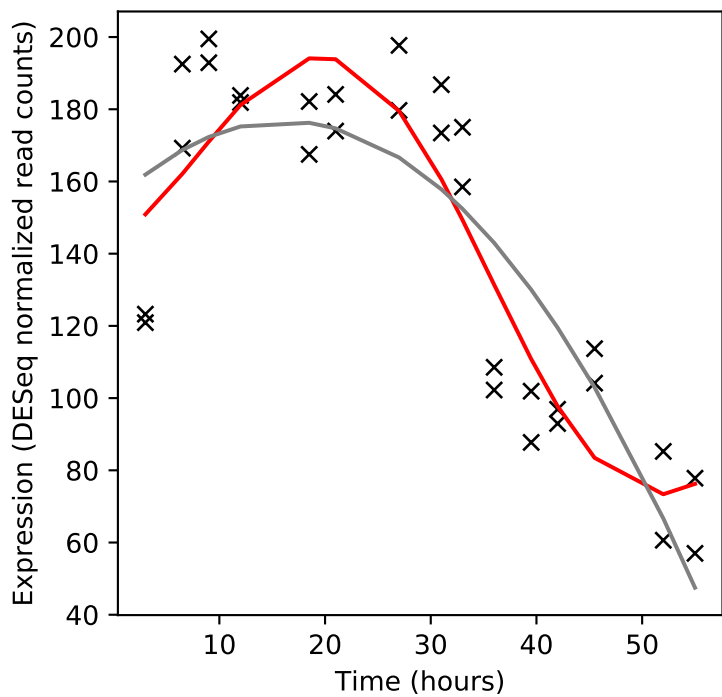
Rv1473/-



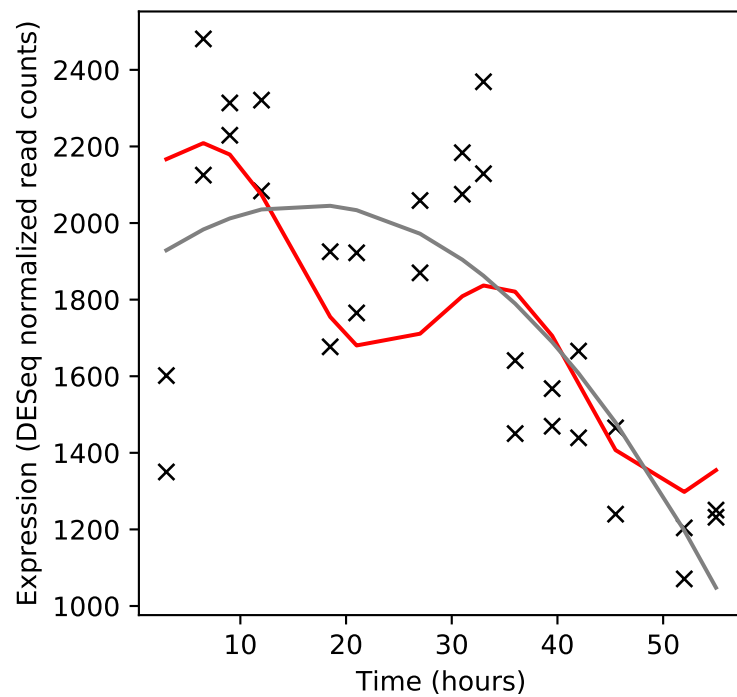
Rv1473A/-



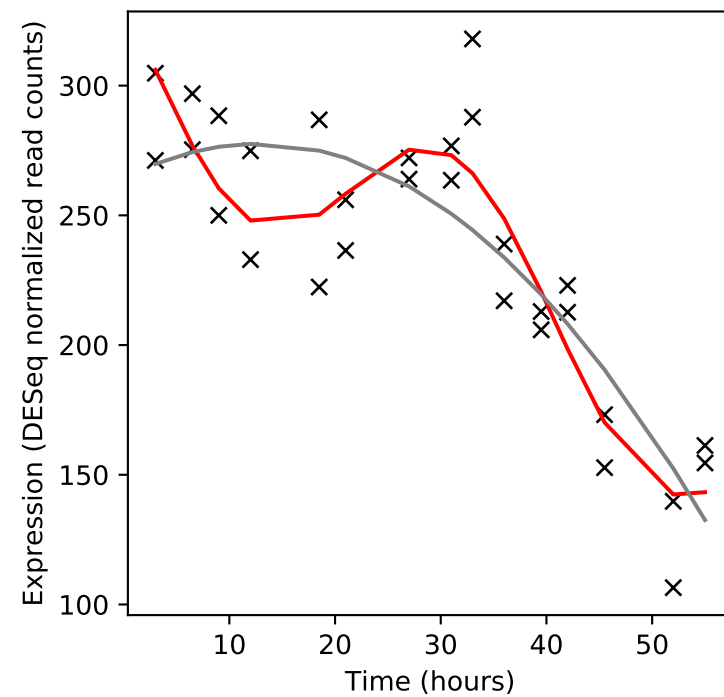
Rv1474c/-



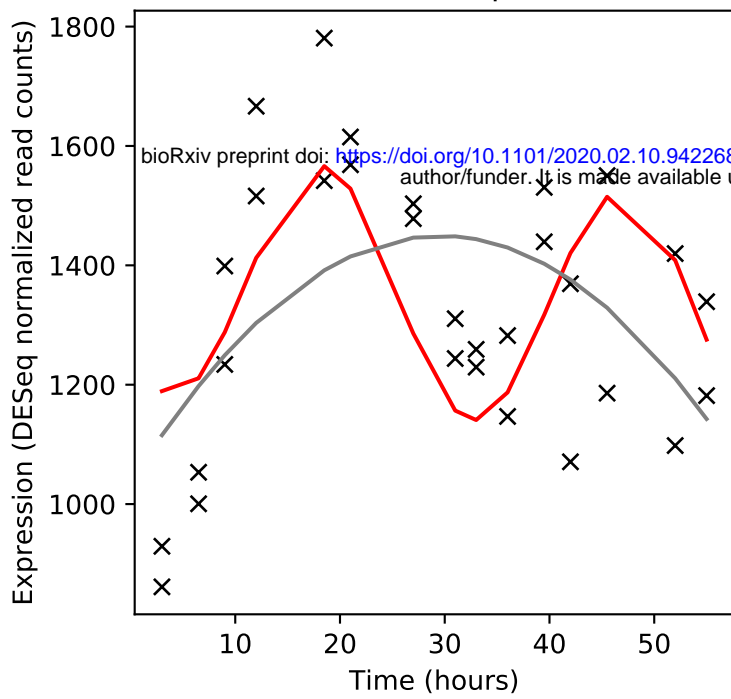
Rv1475c/acn



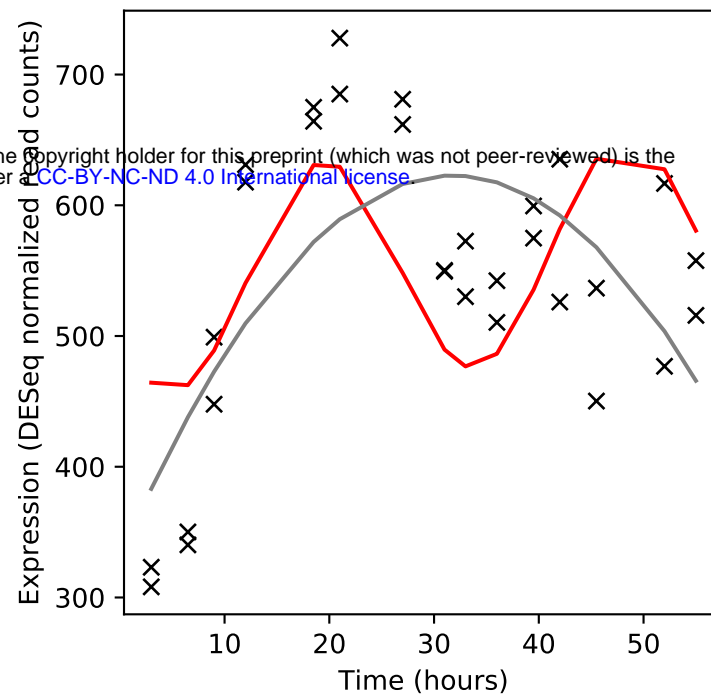
Rv1476/-



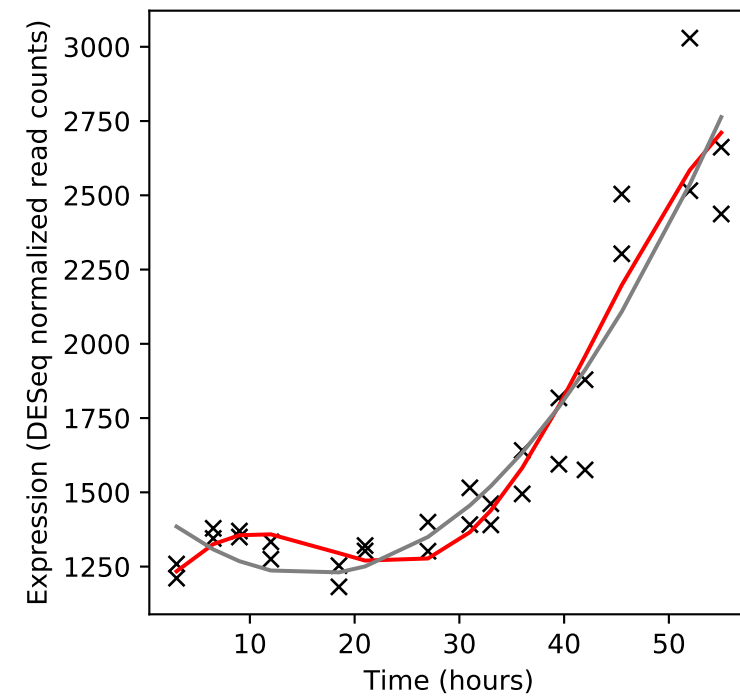
Rv1477/ripA



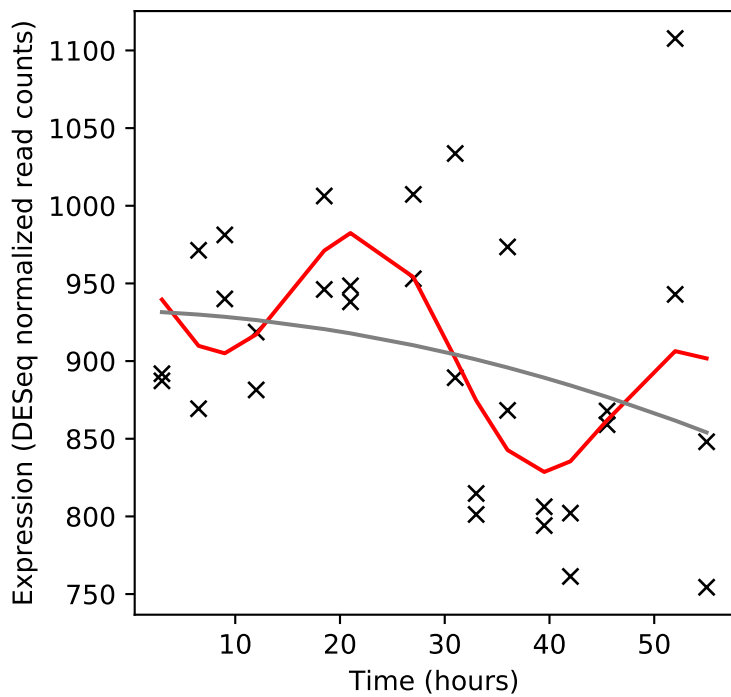
Rv1478/-



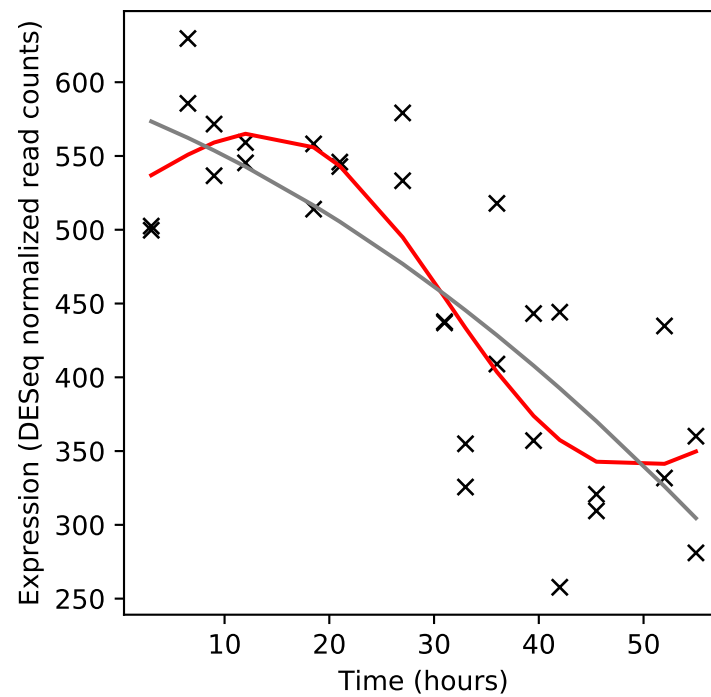
Rv1479/moxR1



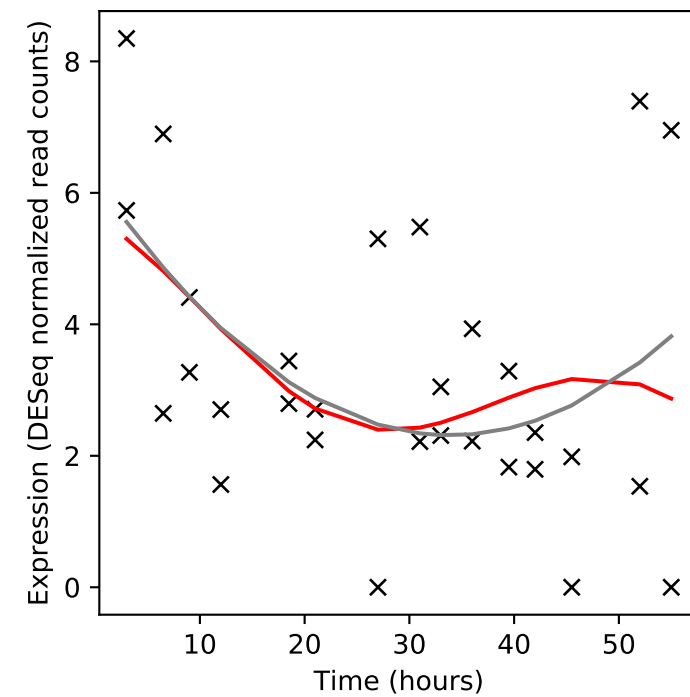
Rv1480/-



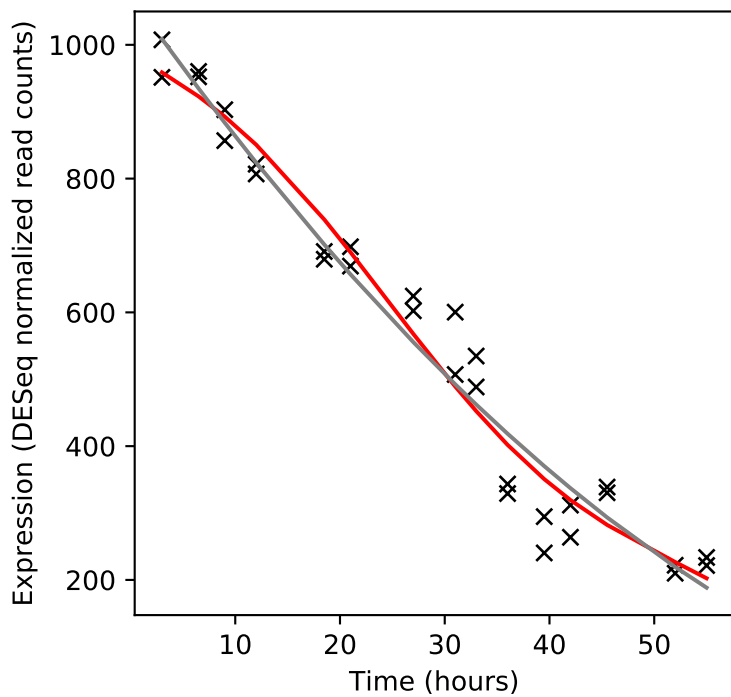
Rv1481/-



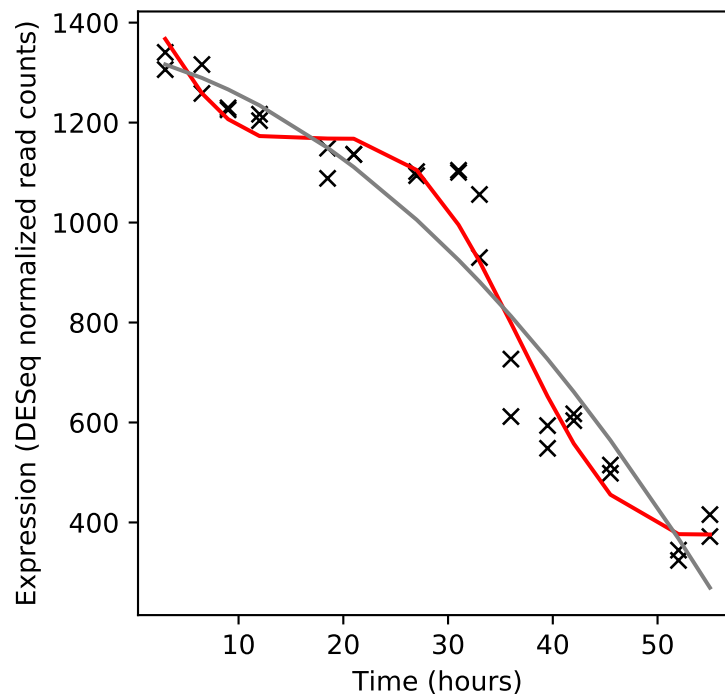
Rv1482c/-



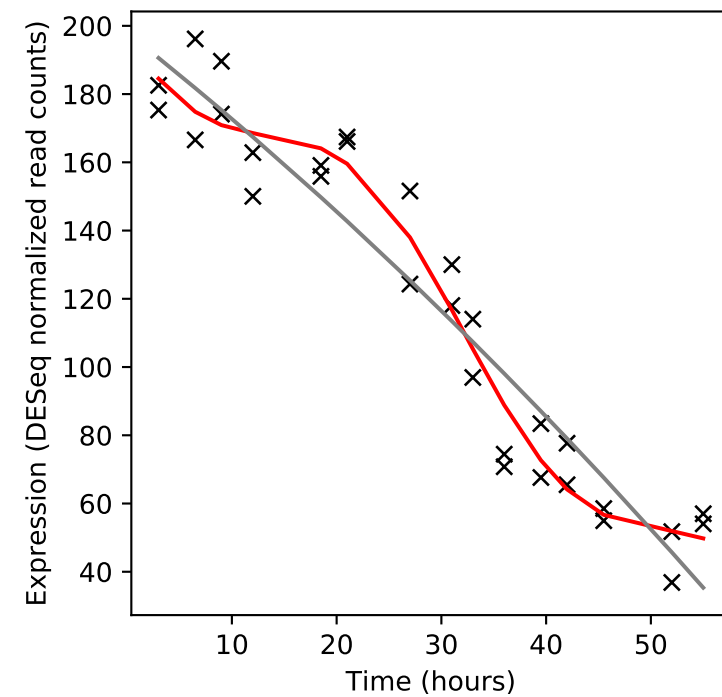
Rv1483/fabG1



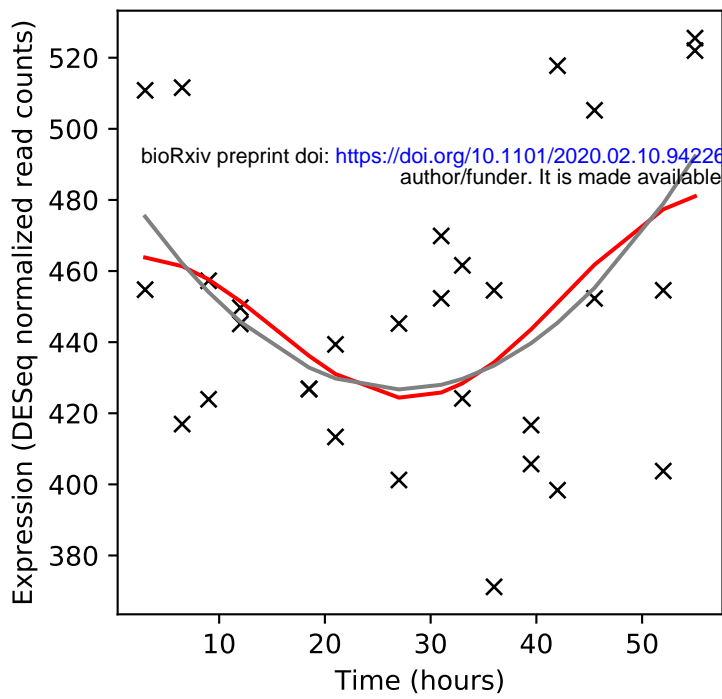
Rv1484/inhA



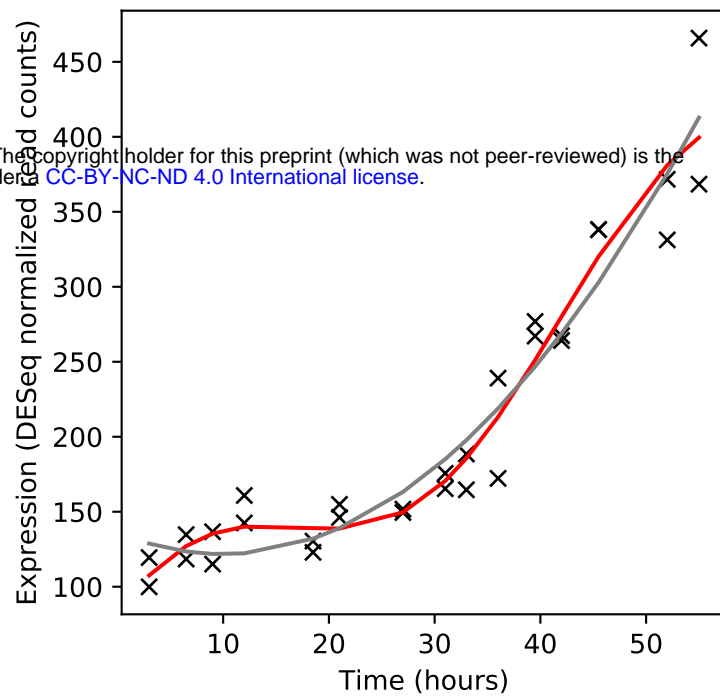
Rv1485/hemZ



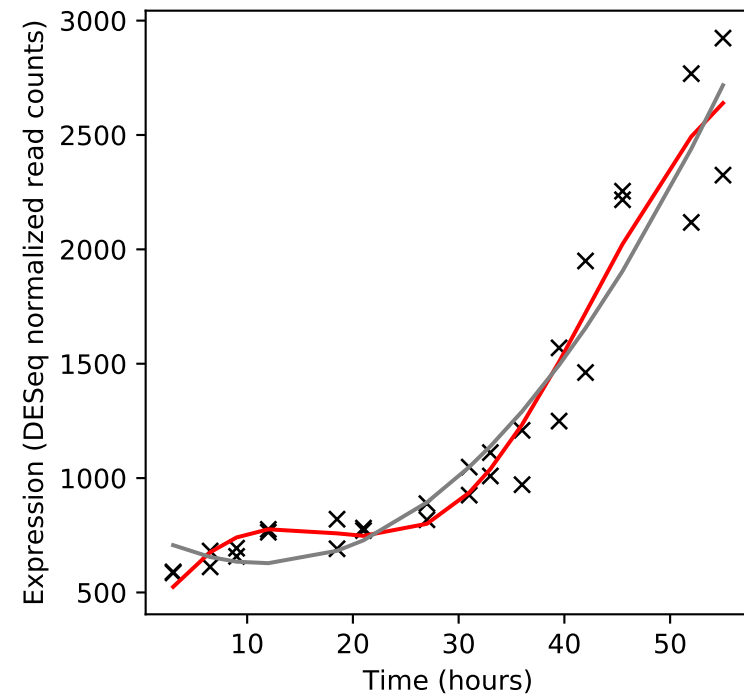
Rv1486c/-



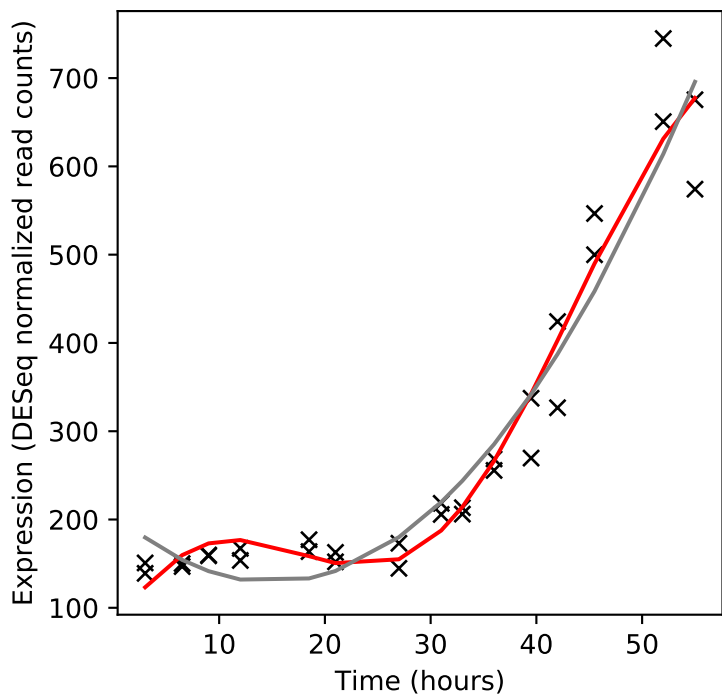
Rv1487/-



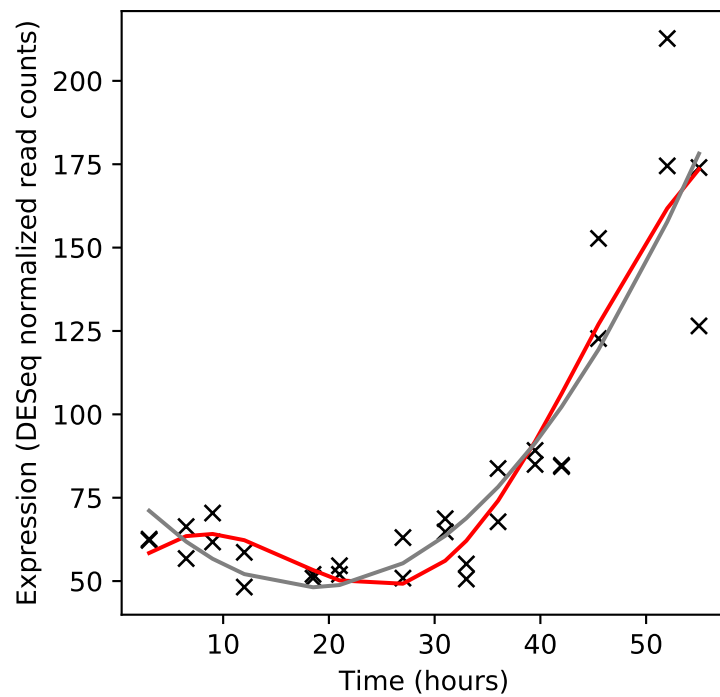
Rv1488/-



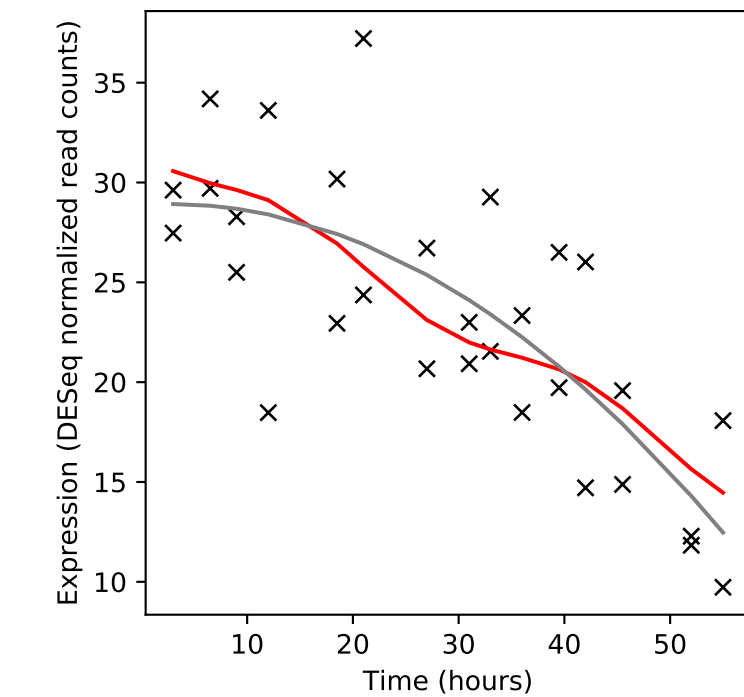
Rv1489/-



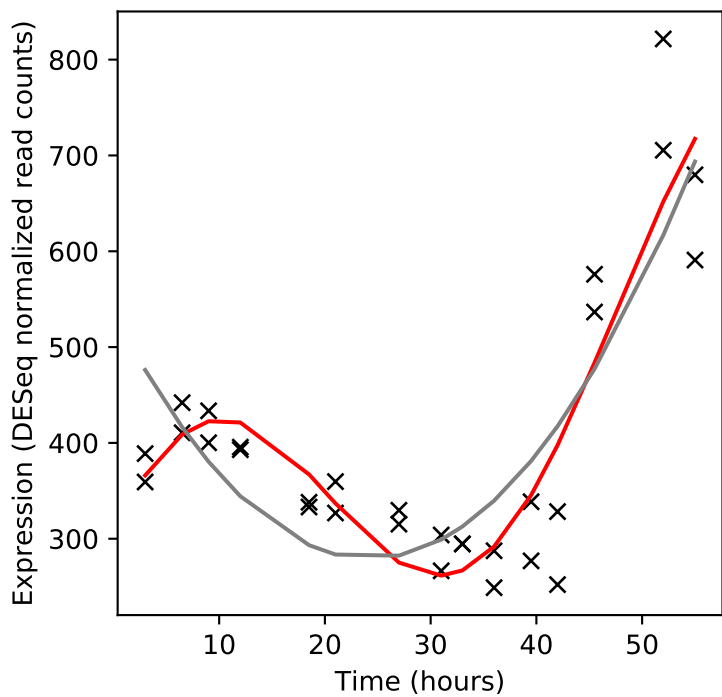
Rv1489A/-



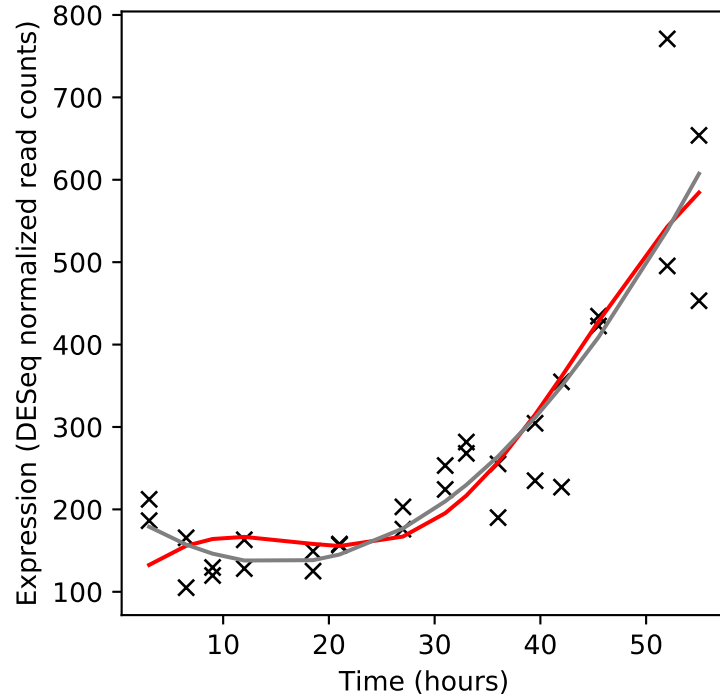
Rv1490/-



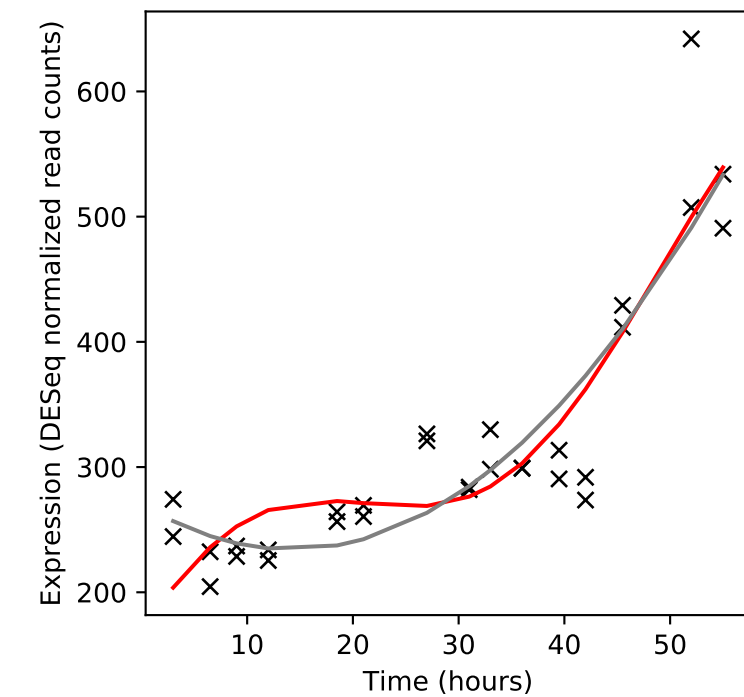
Rv1491c/-



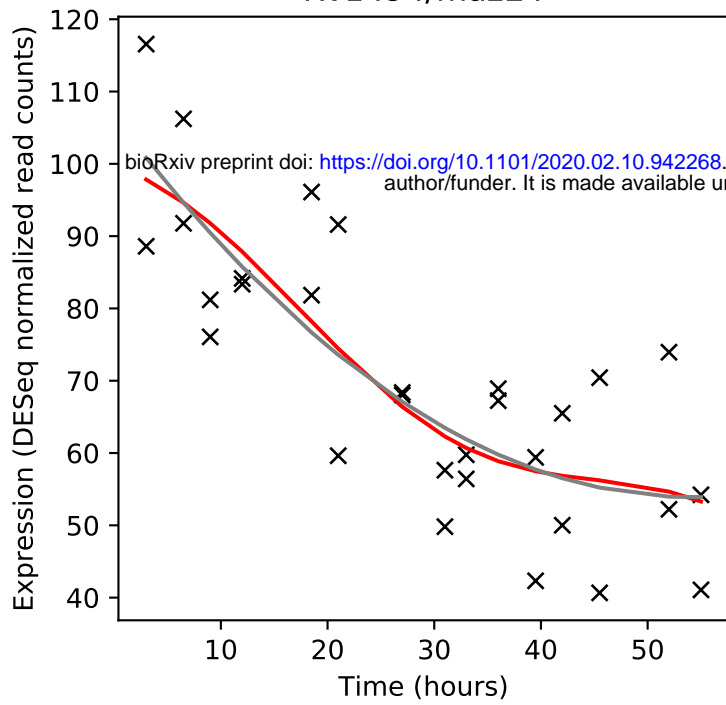
Rv1492/mutA



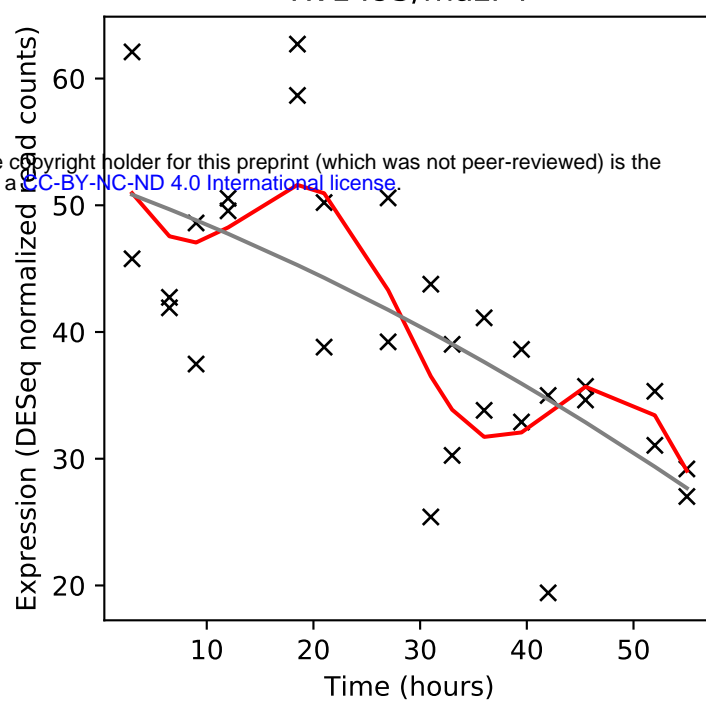
Rv1493/mutB



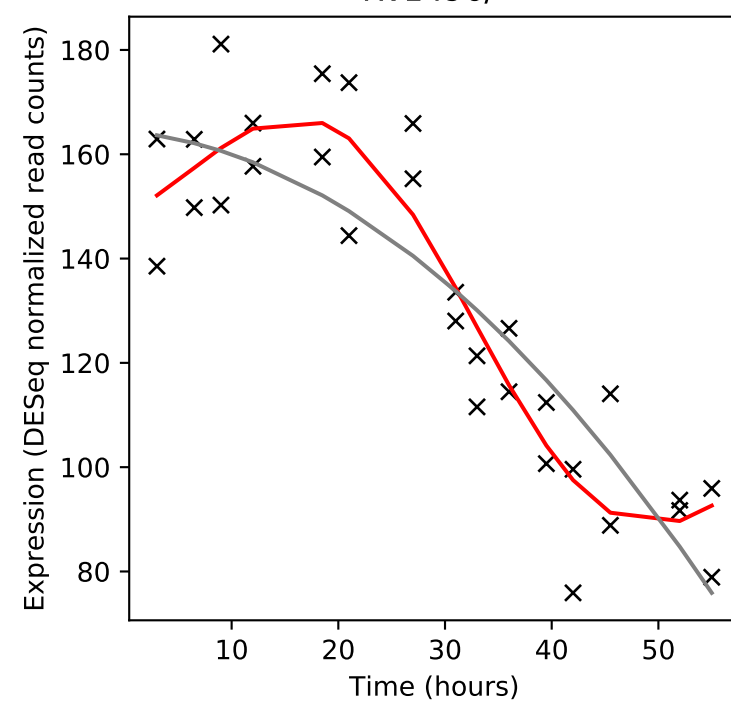
Rv1494/mazE4



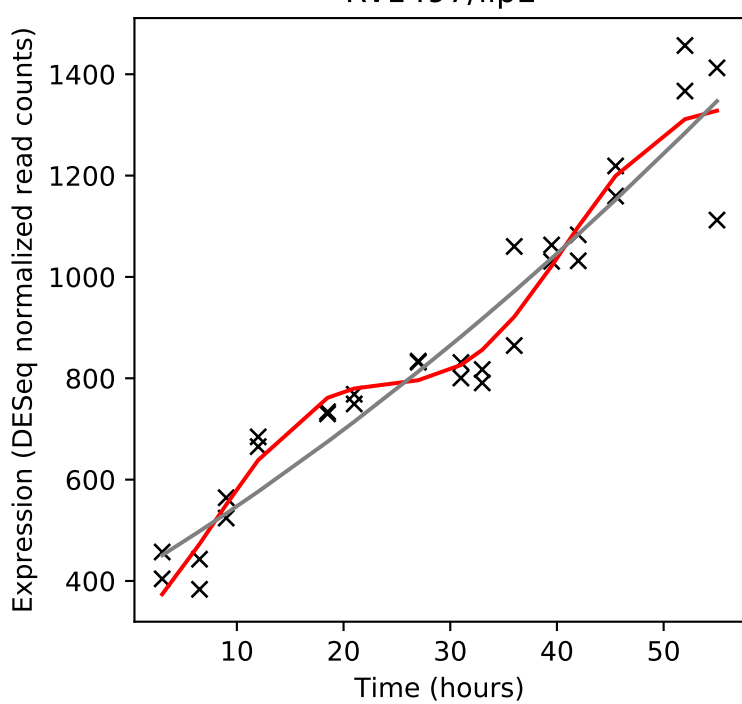
Rv1495/mazF4



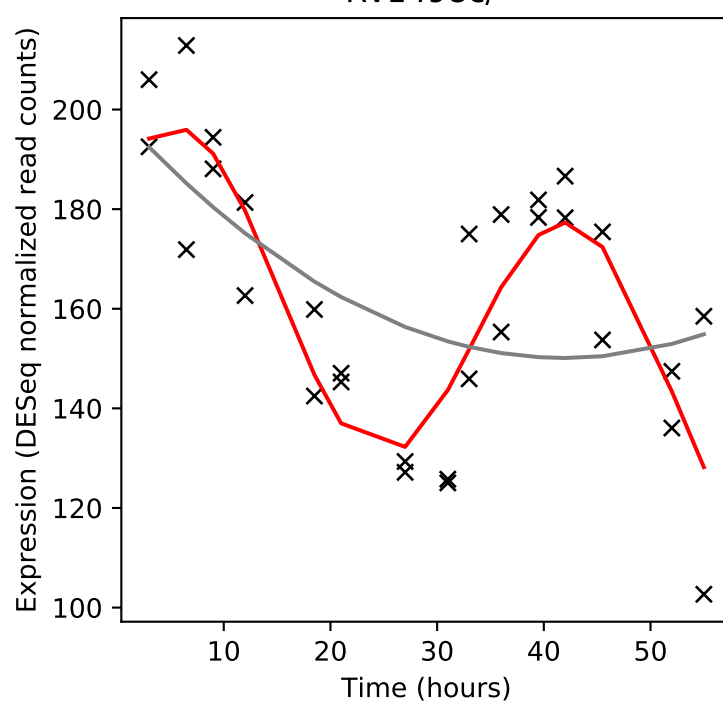
Rv1496/-



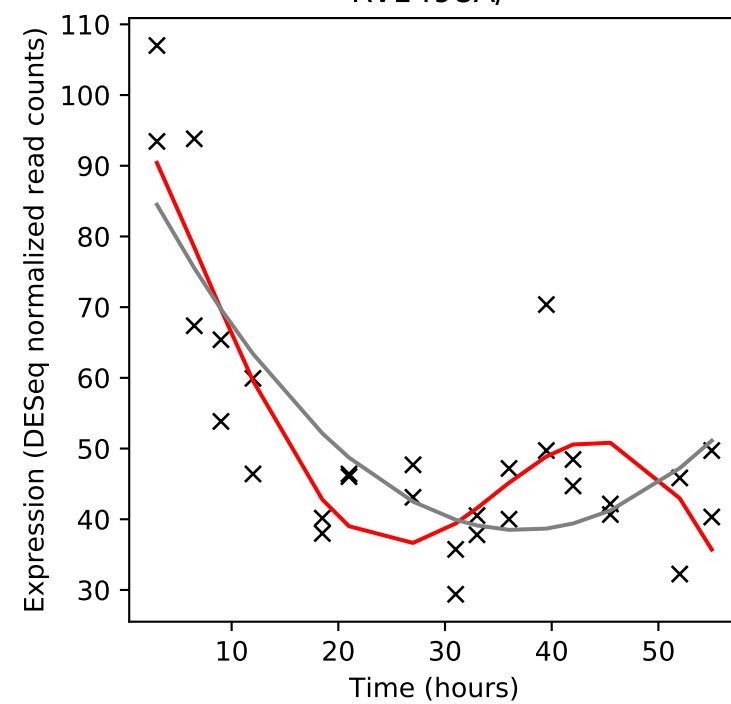
Rv1497/lipL



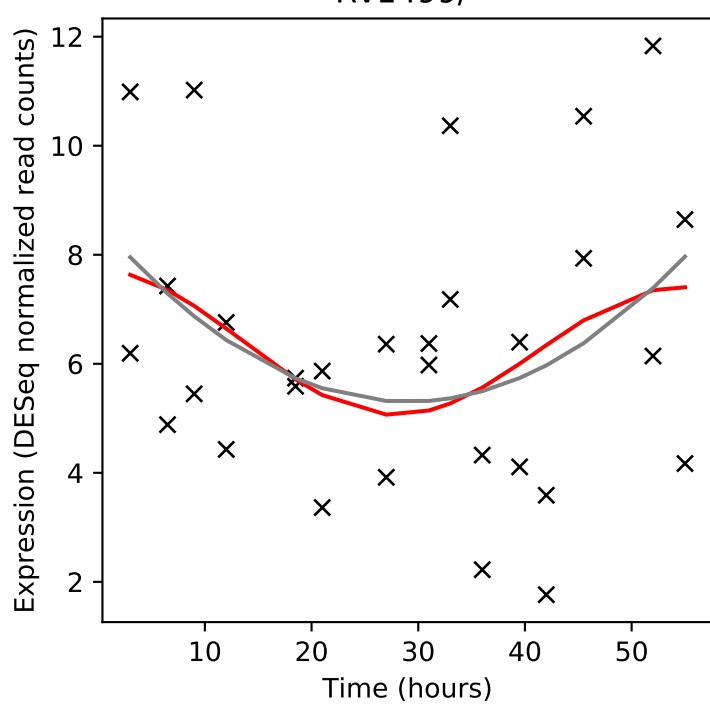
Rv1498c/-



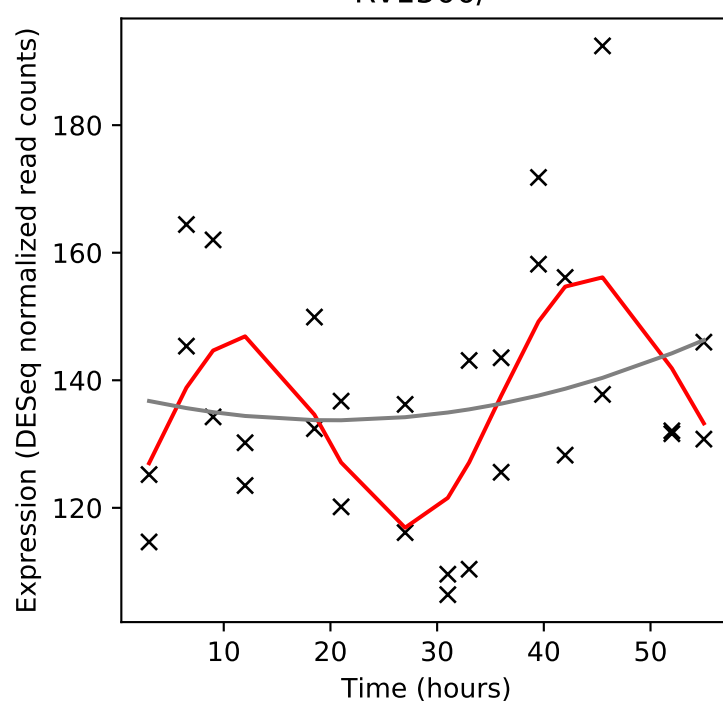
Rv1498A/-



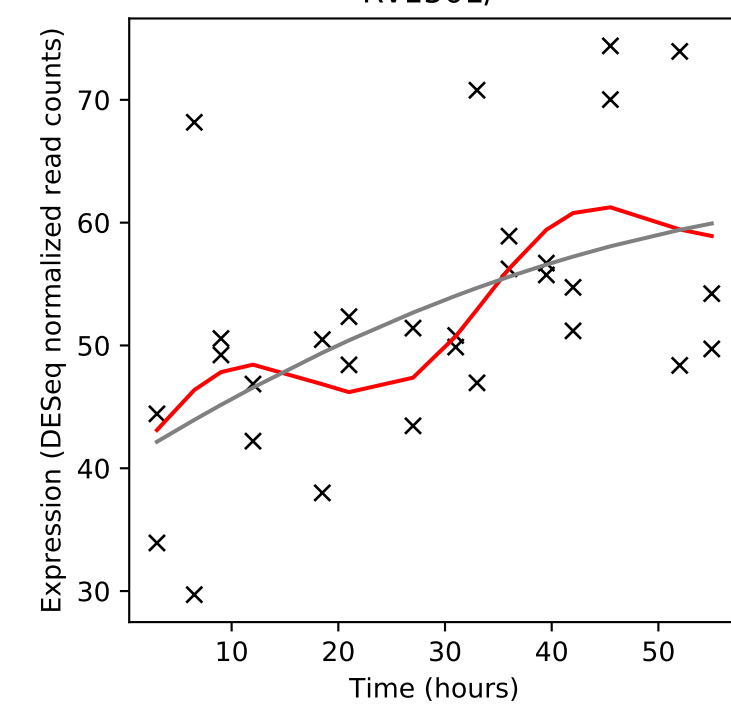
Rv1499/-



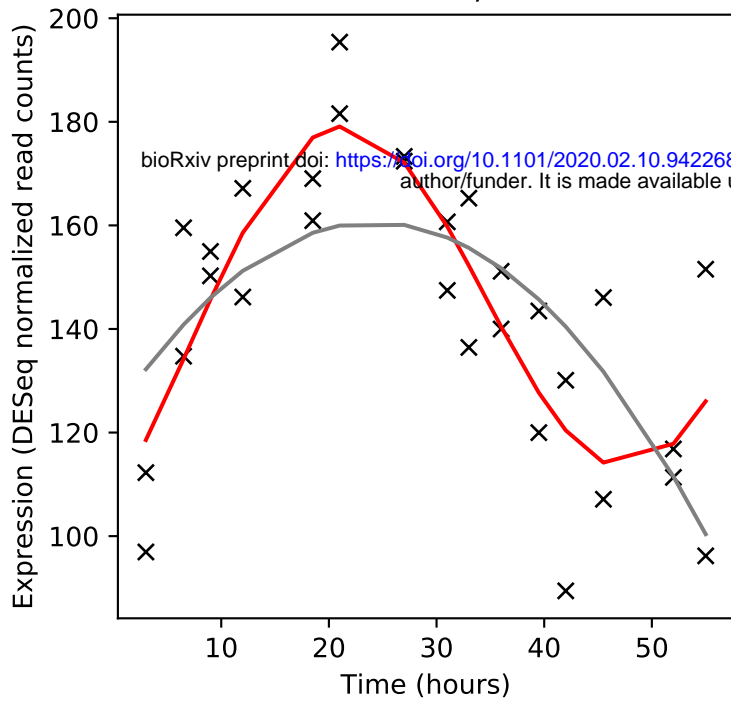
Rv1500/-



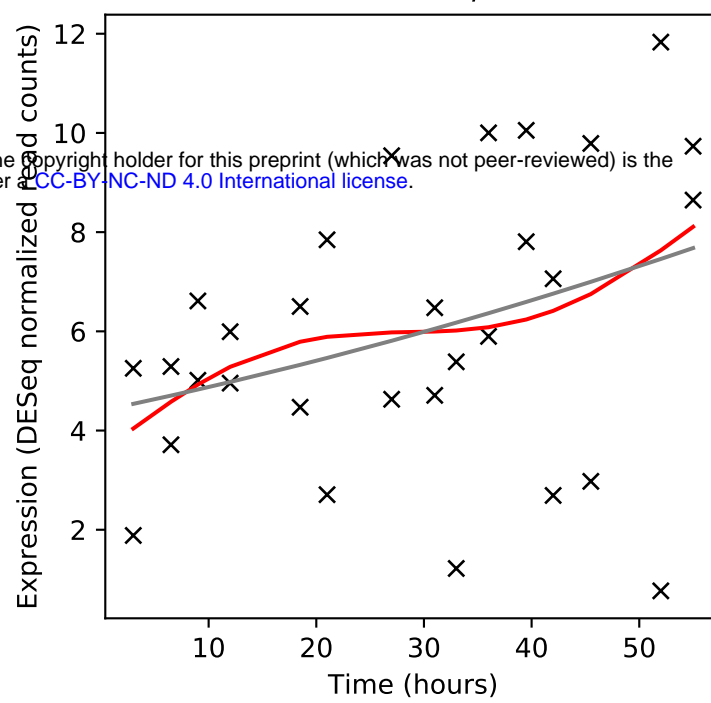
Rv1501/-



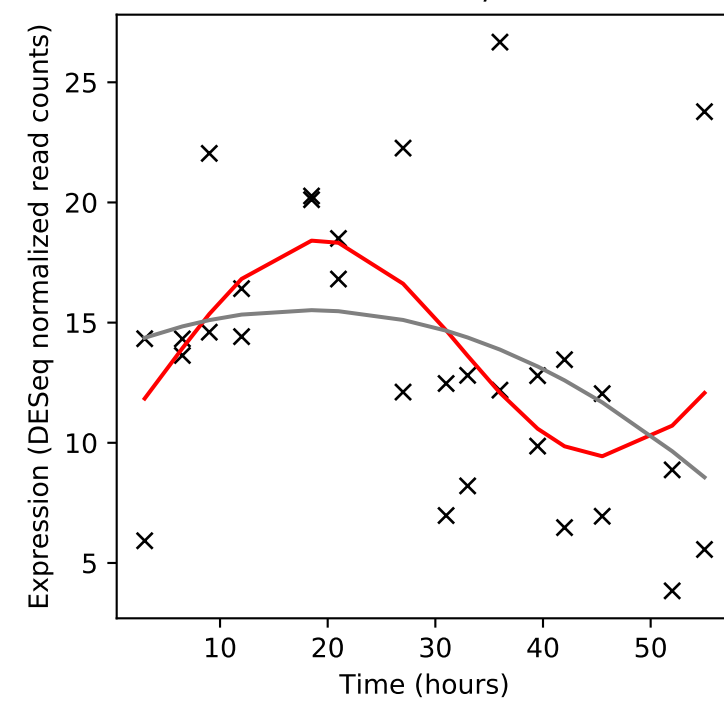
Rv1502/-



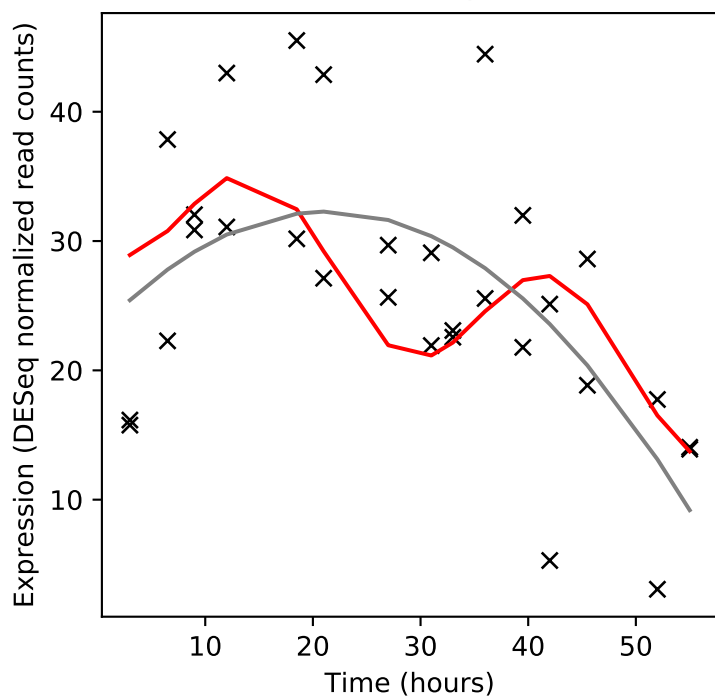
Rv1503c/-



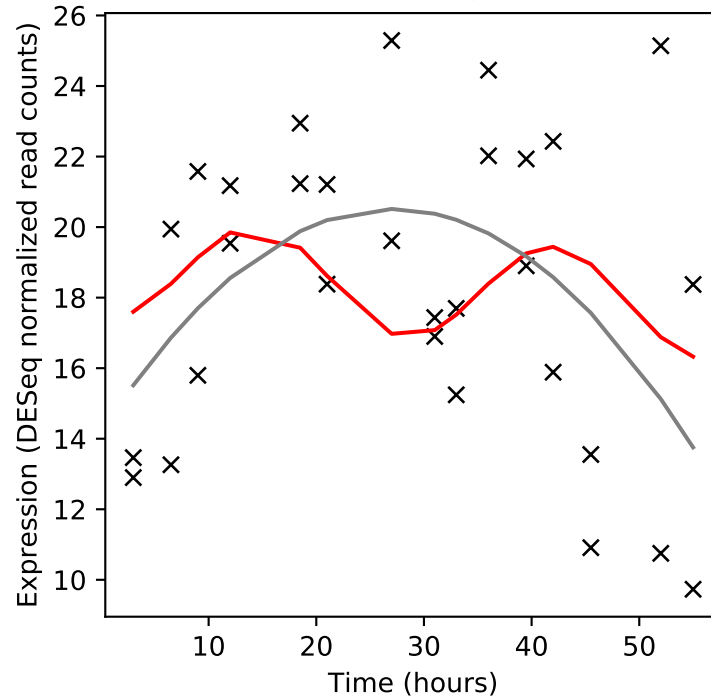
Rv1504c/-



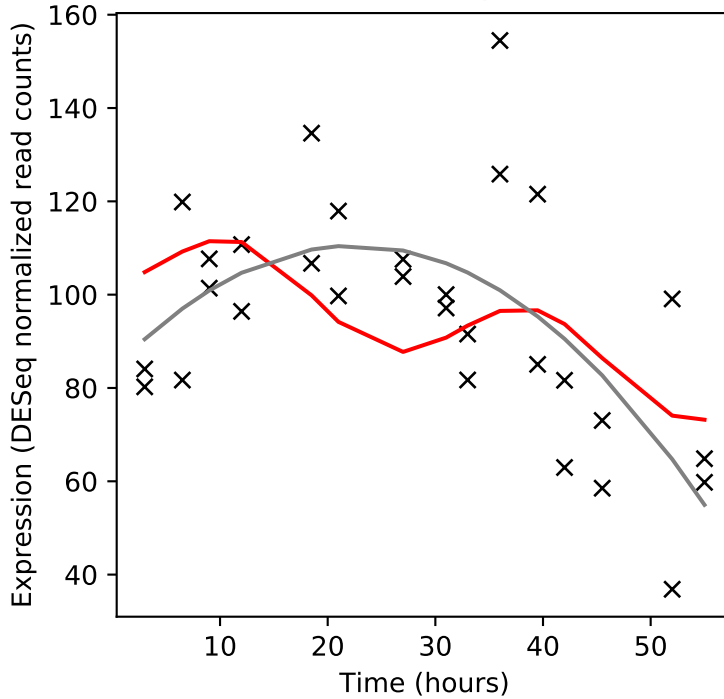
Rv1505c/-



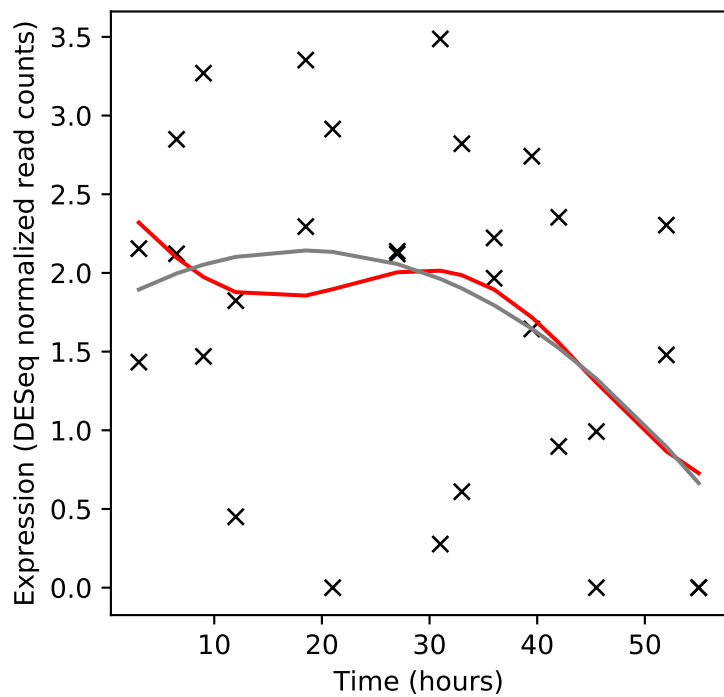
Rv1506c/-



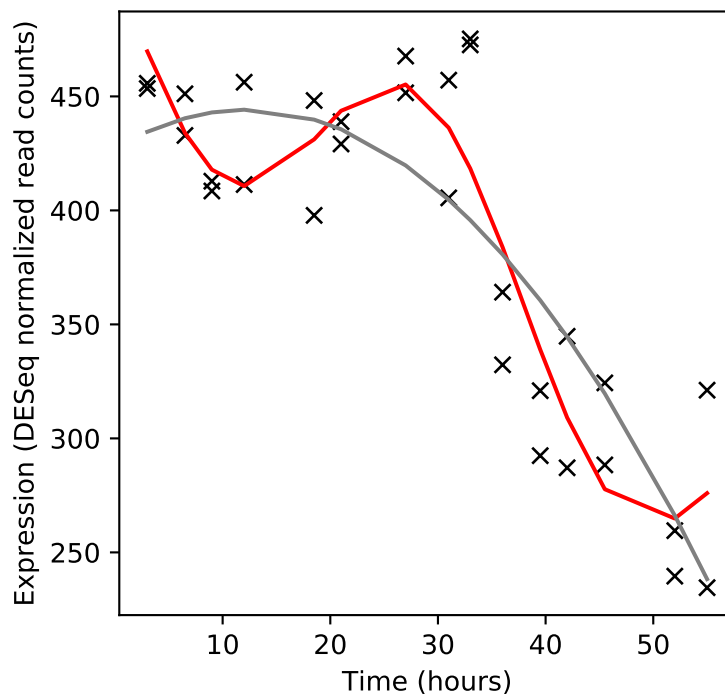
Rv1507c/-



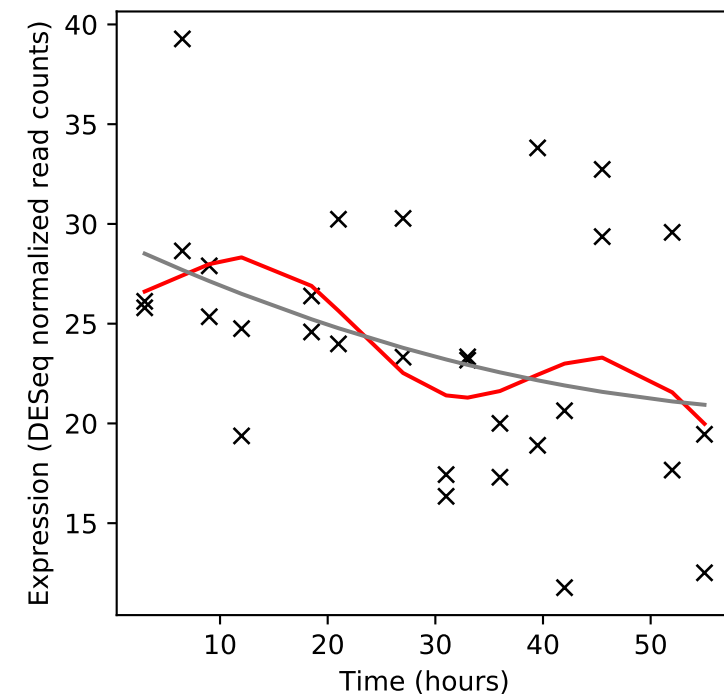
Rv1507A/-



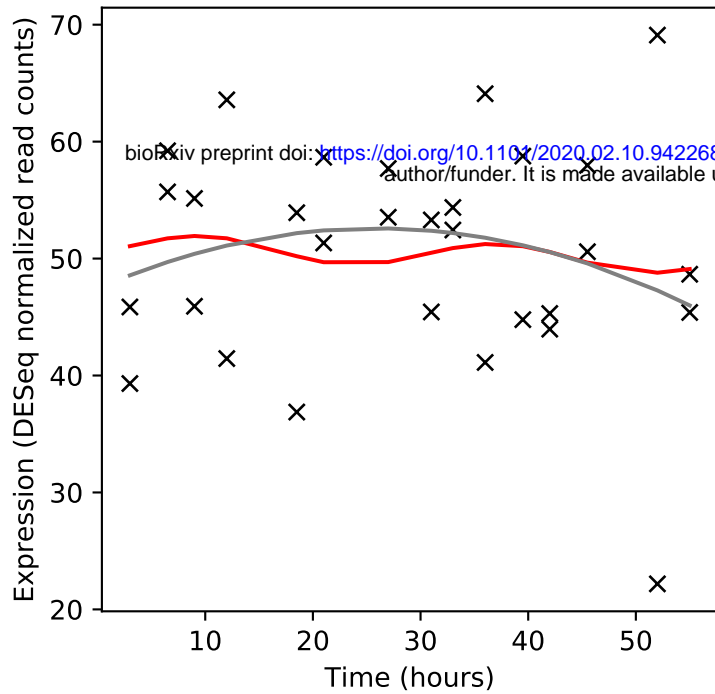
Rv1508c/-



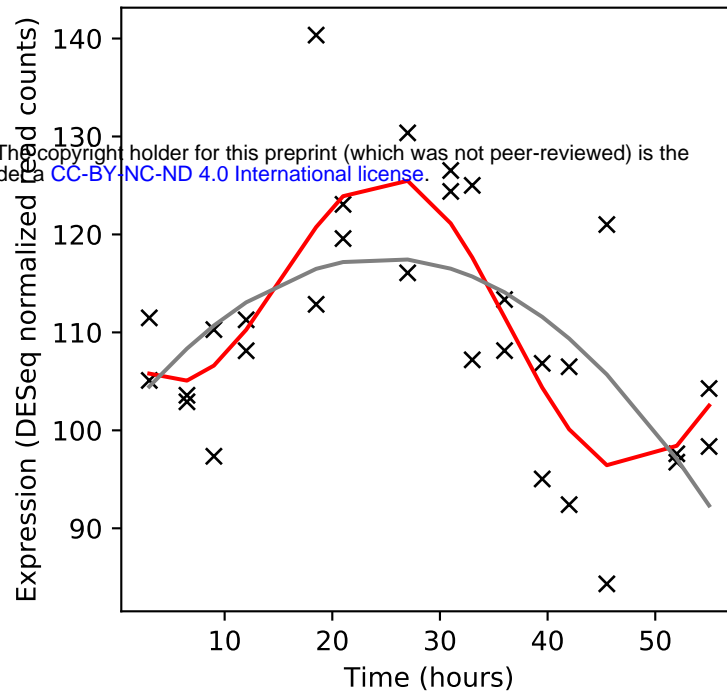
Rv1508A/-



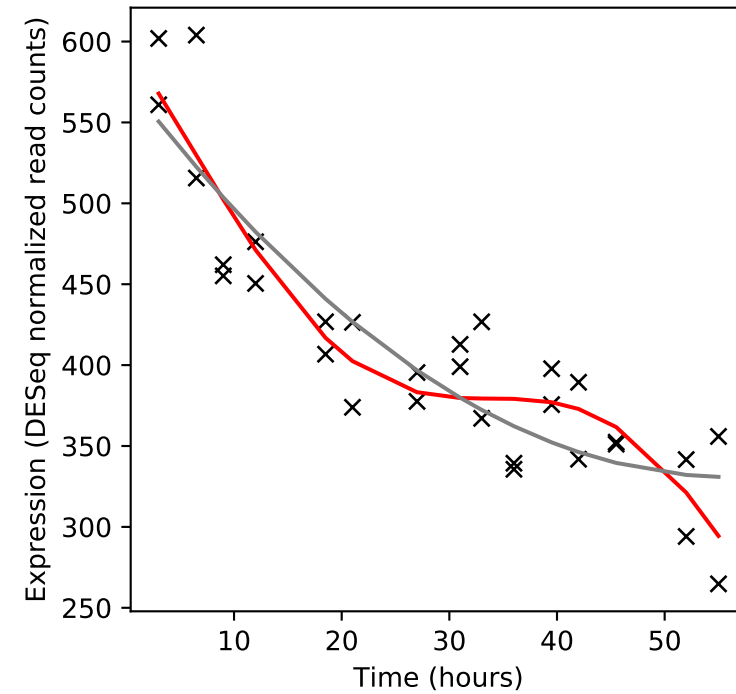
Rv1509/-



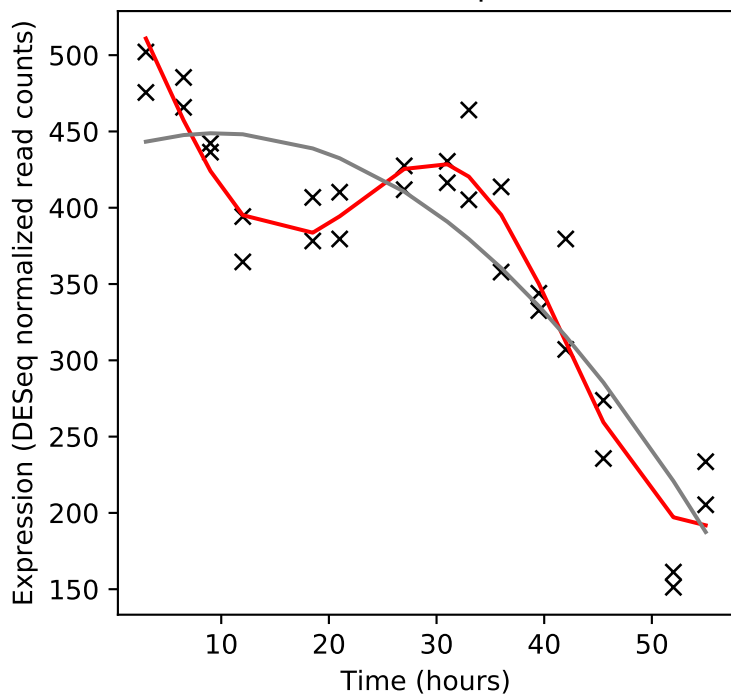
Rv1510/-



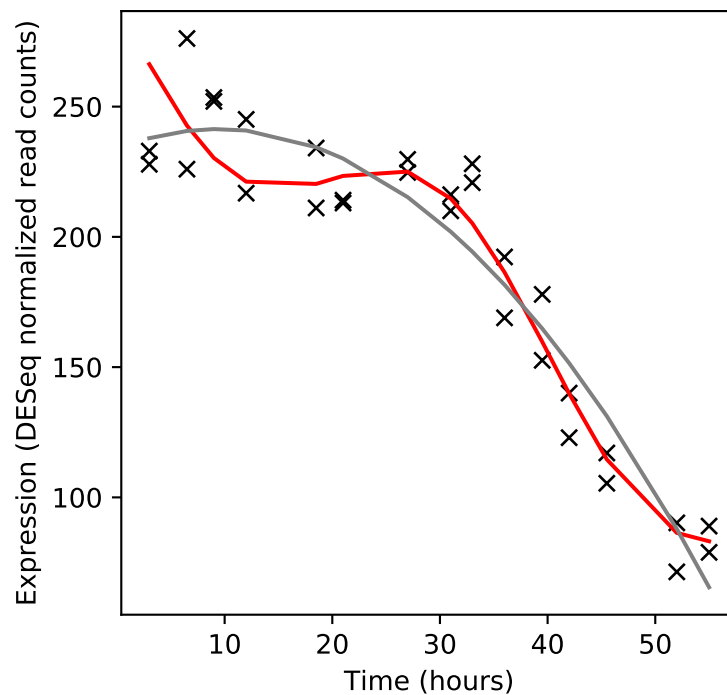
Rv1511/gmdA



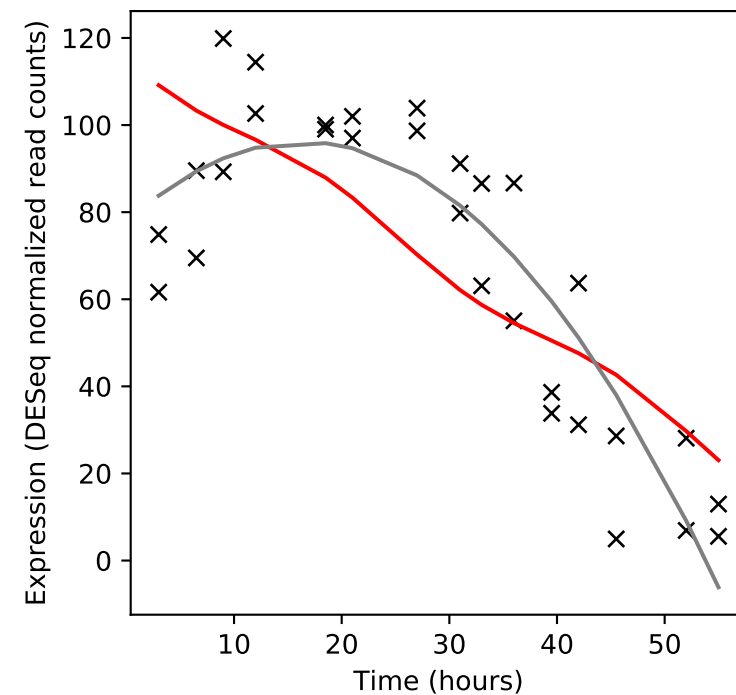
Rv1512/epiA



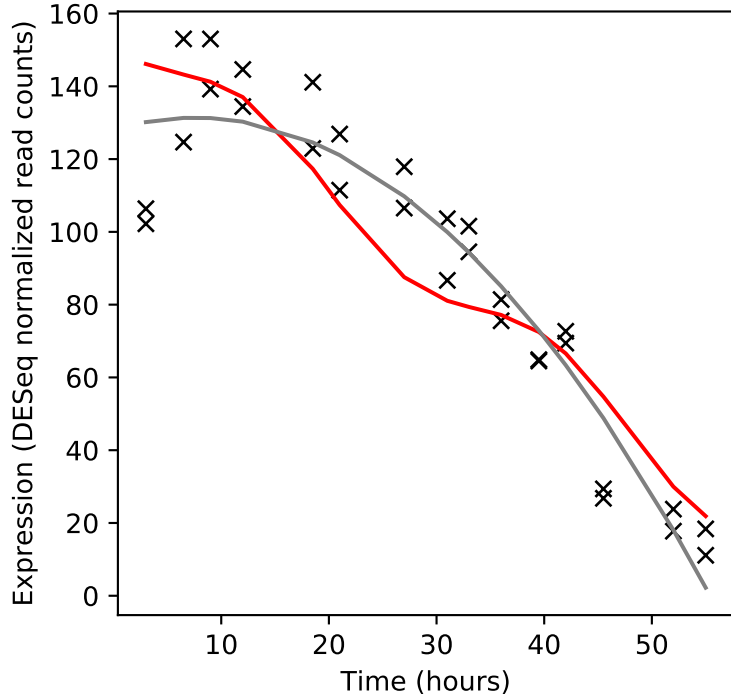
Rv1513/-



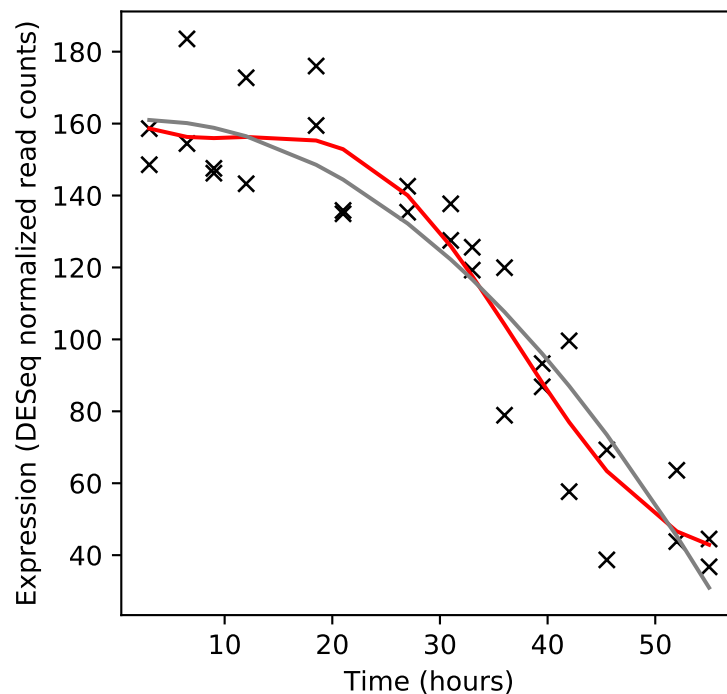
Rv1514c/-



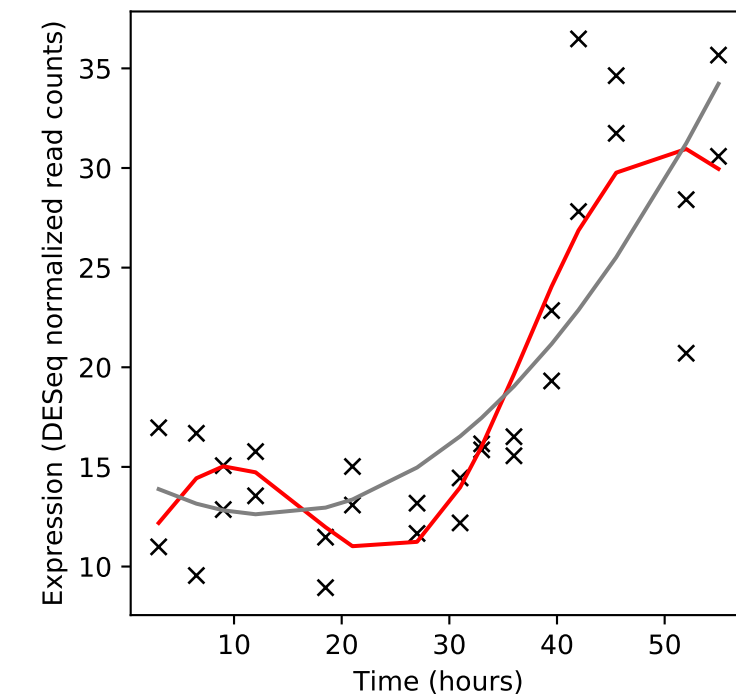
Rv1515c/-



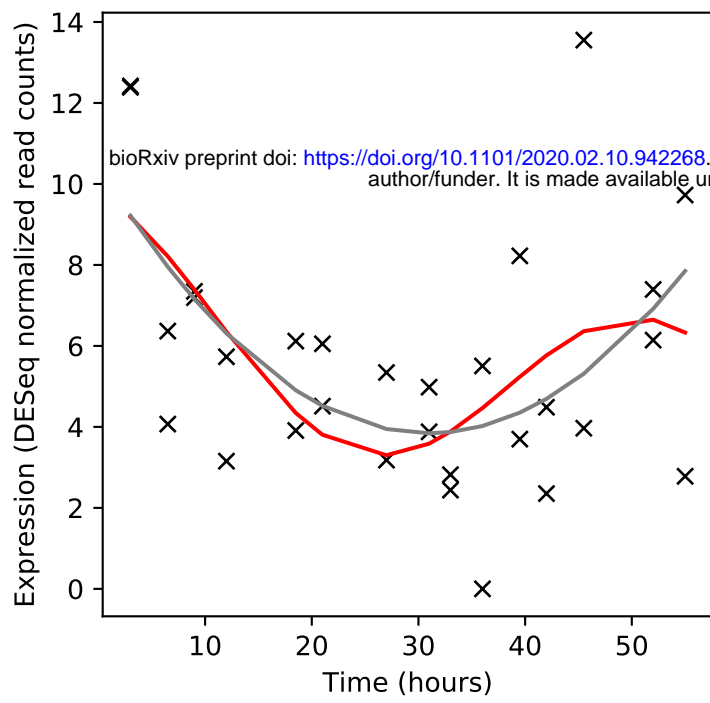
Rv1516c/-



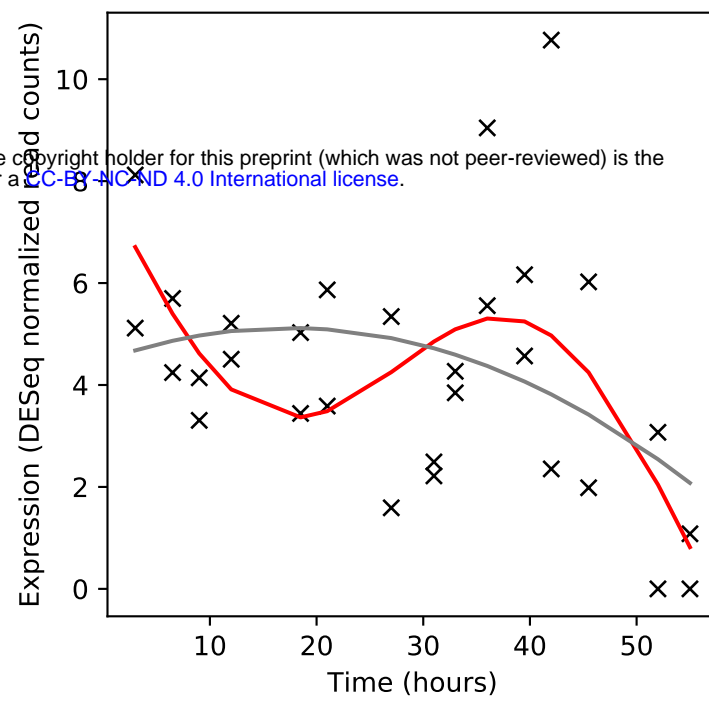
Rv1517/-



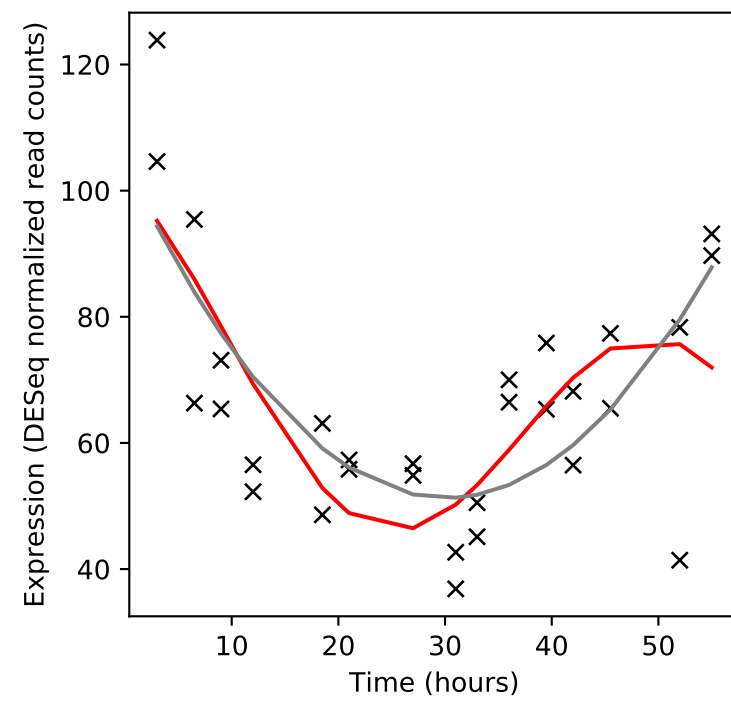
Rv1518/-



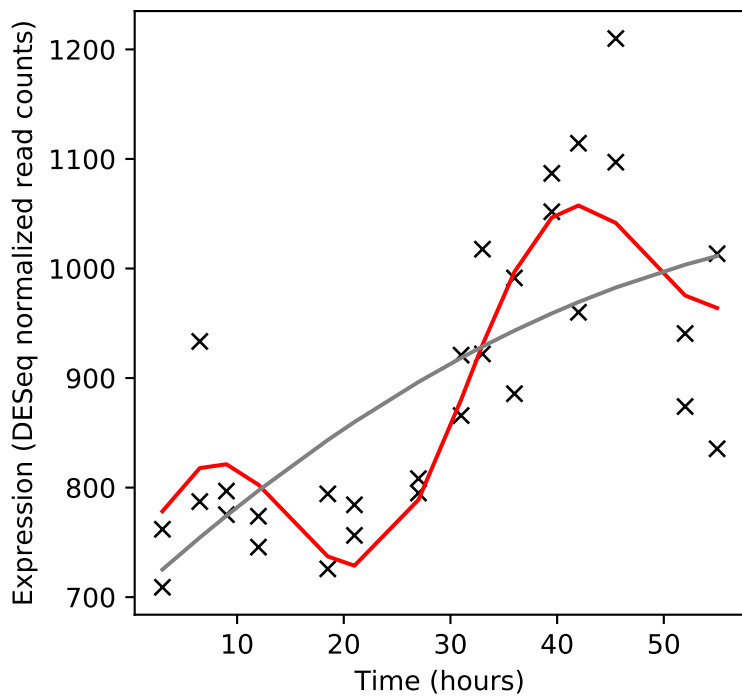
Rv1519/-



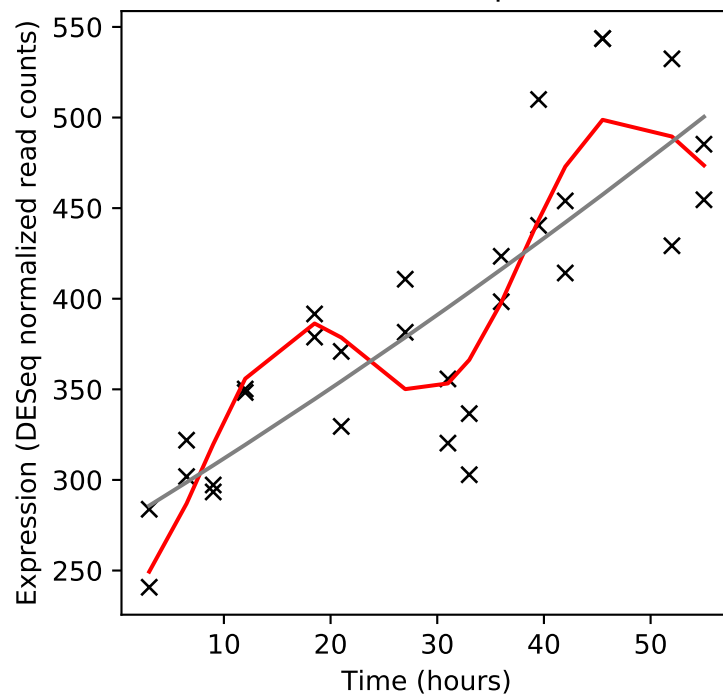
Rv1520/-



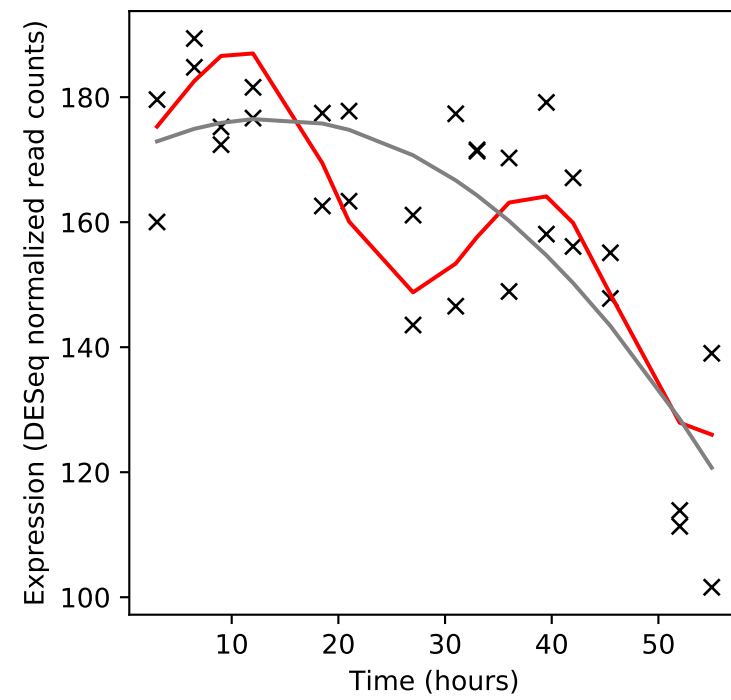
Rv1521/fadD25



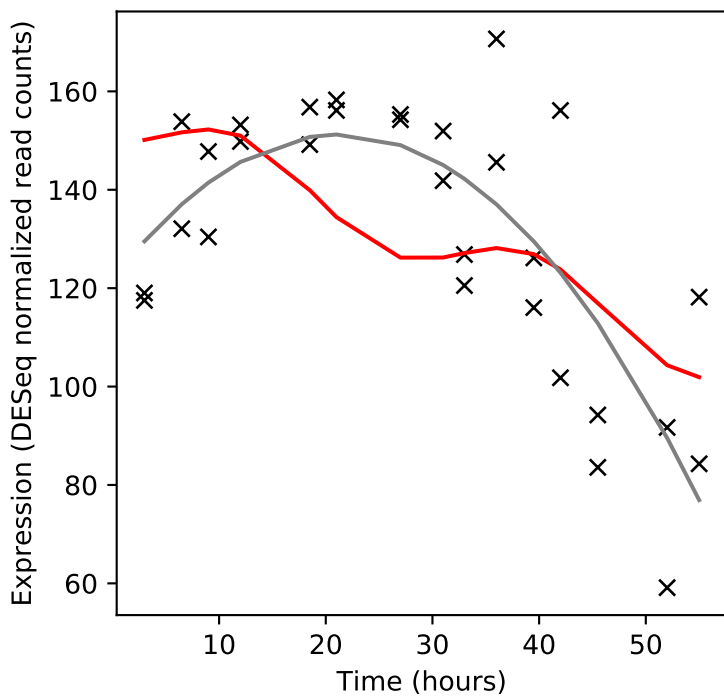
Rv1522c/mmpL12



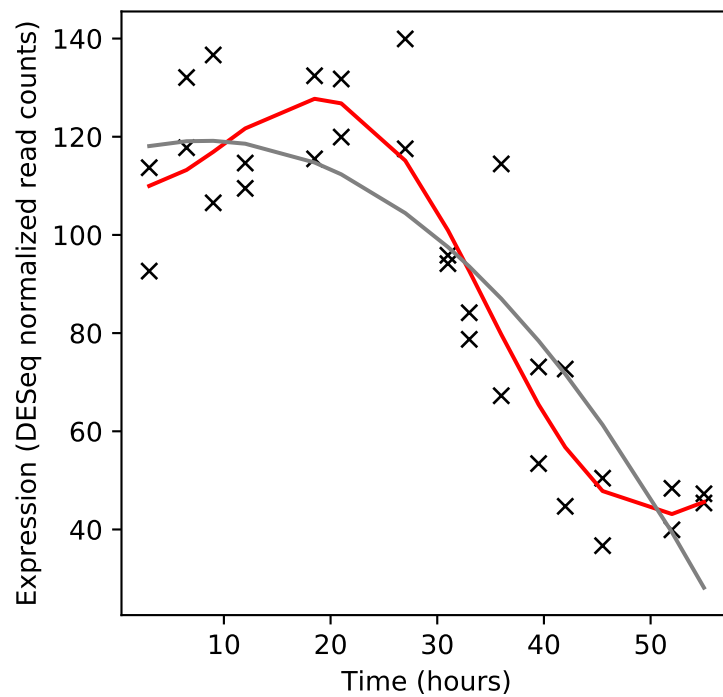
Rv1523/-



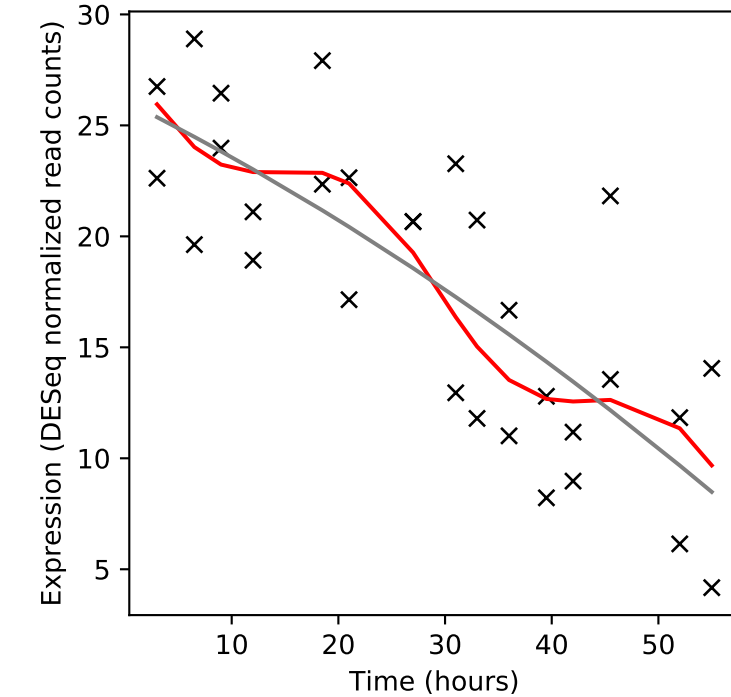
Rv1524/-



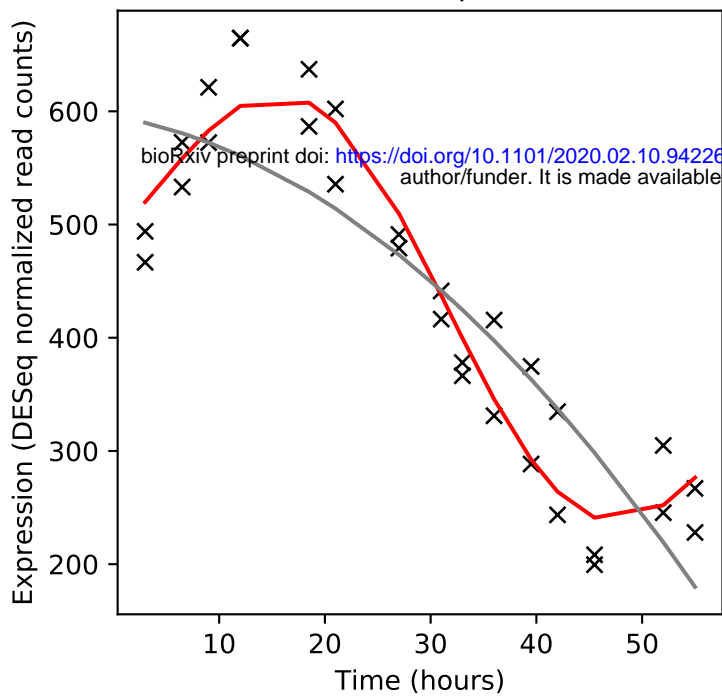
Rv1525/wbbL2



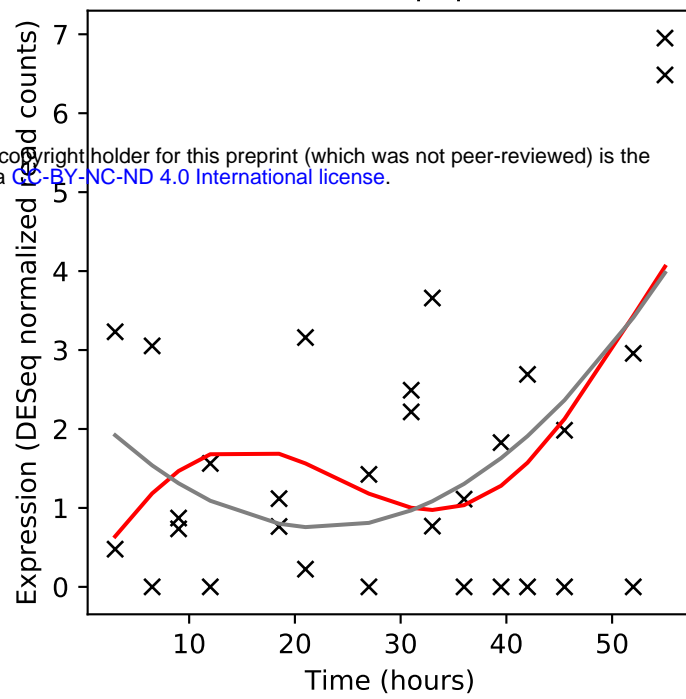
Rv1526c/-



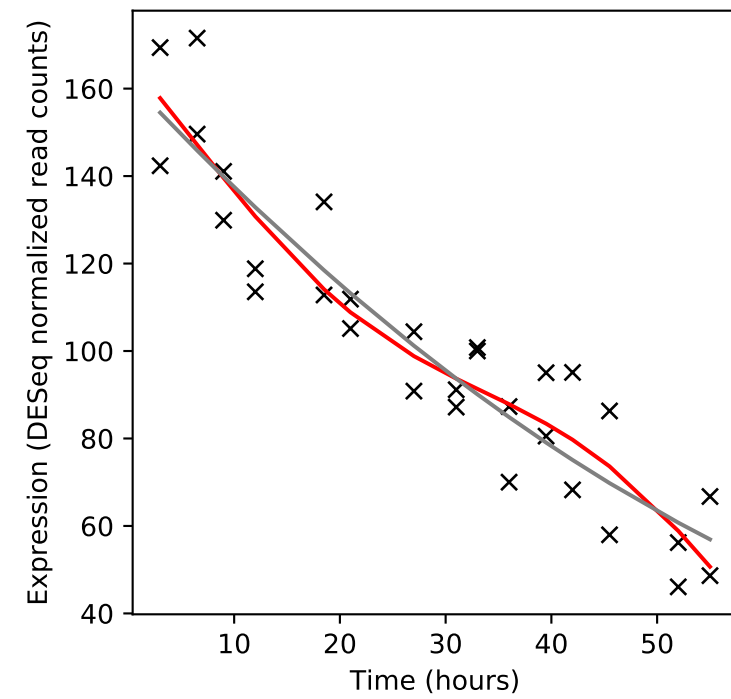
Rv1527c/pks5



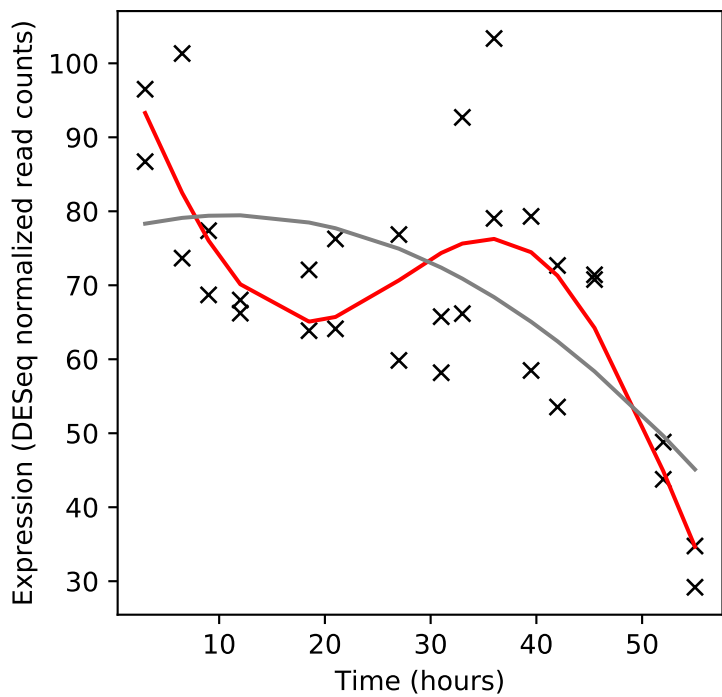
Rv1528c/papA4



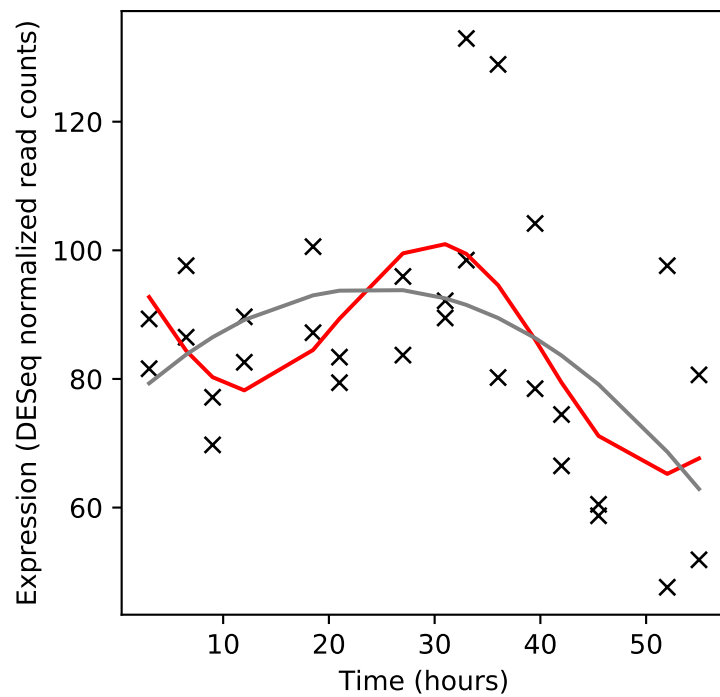
Rv1529/fadD24



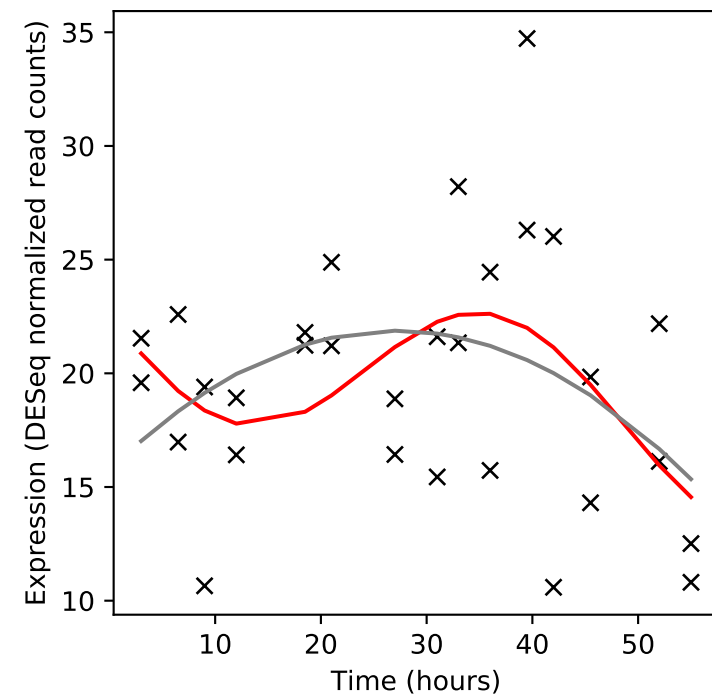
Rv1530/adh



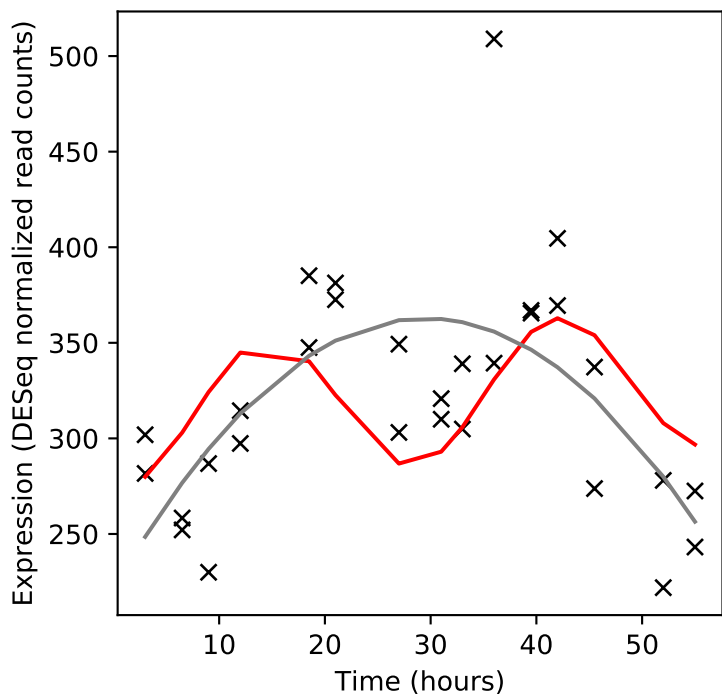
Rv1531/-



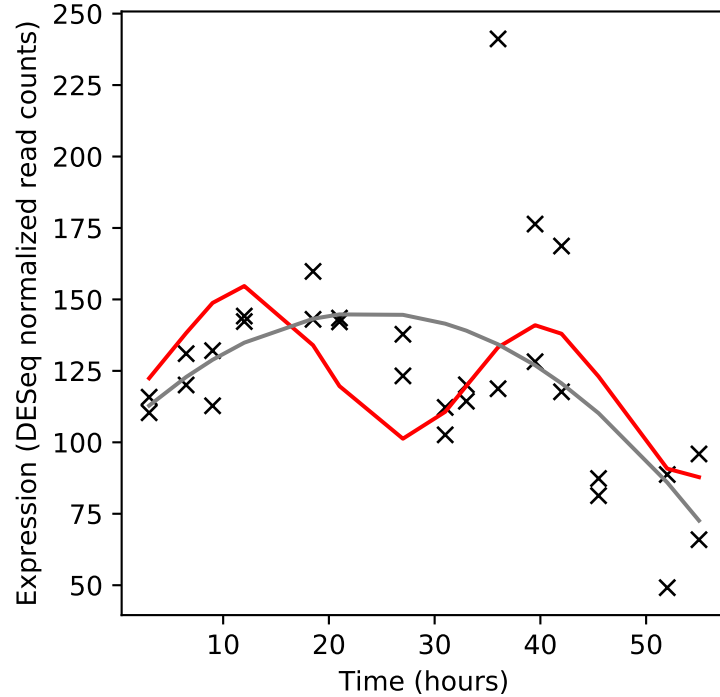
Rv1532c/-



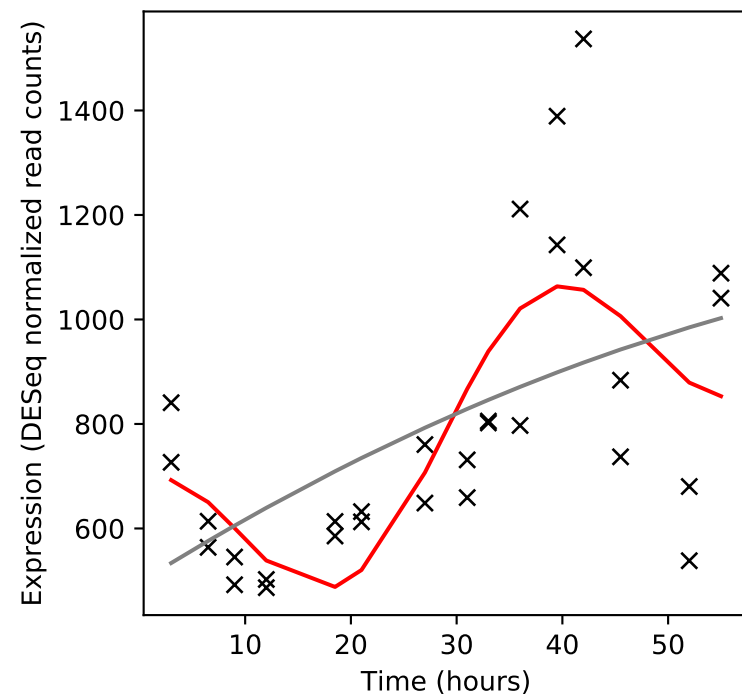
Rv1533/-



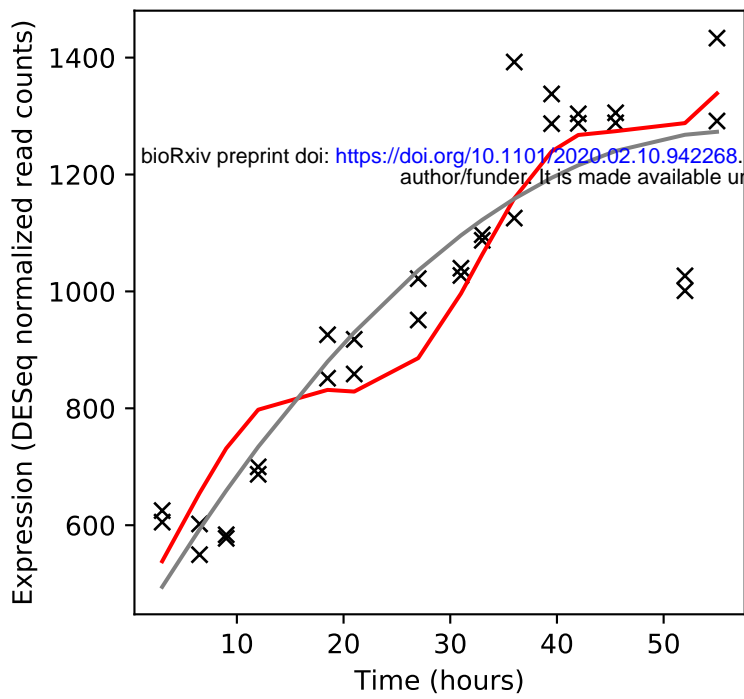
Rv1534/-



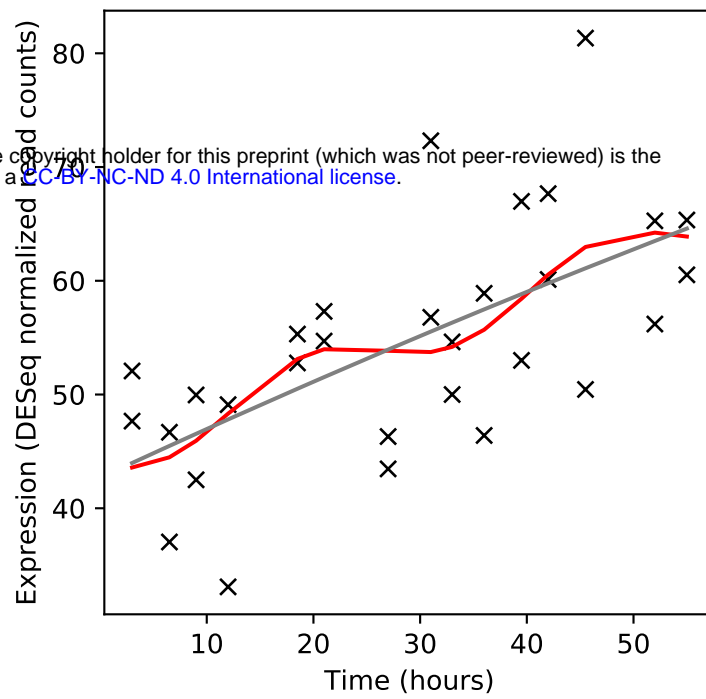
Rv1535/-



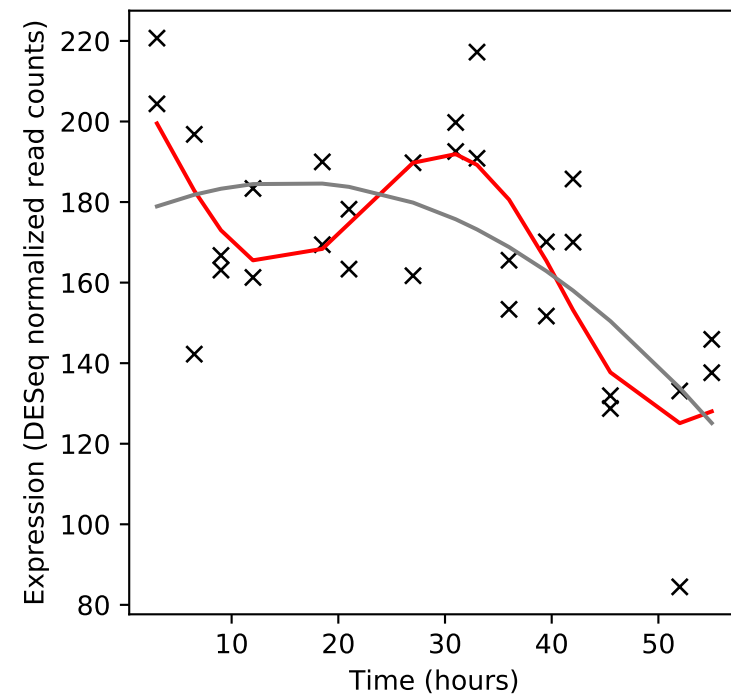
Rv1536/ileS



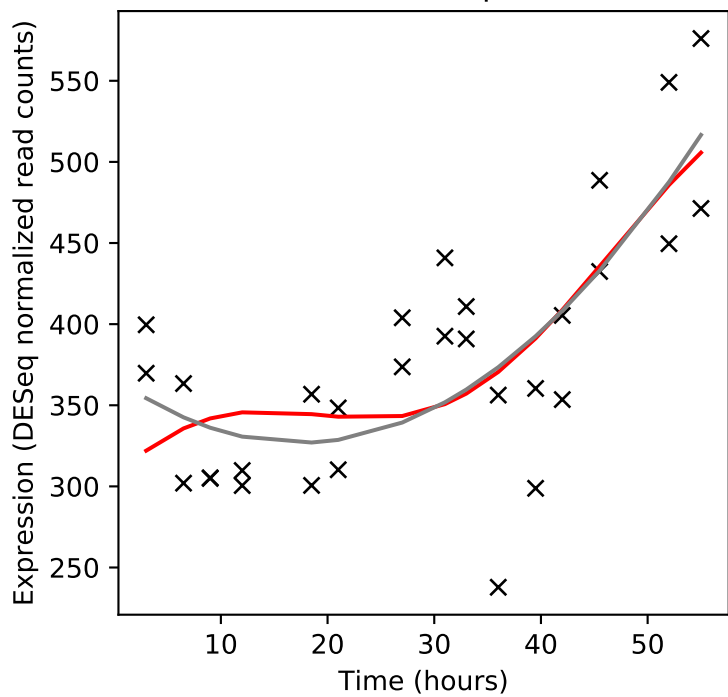
Rv1537/dinX



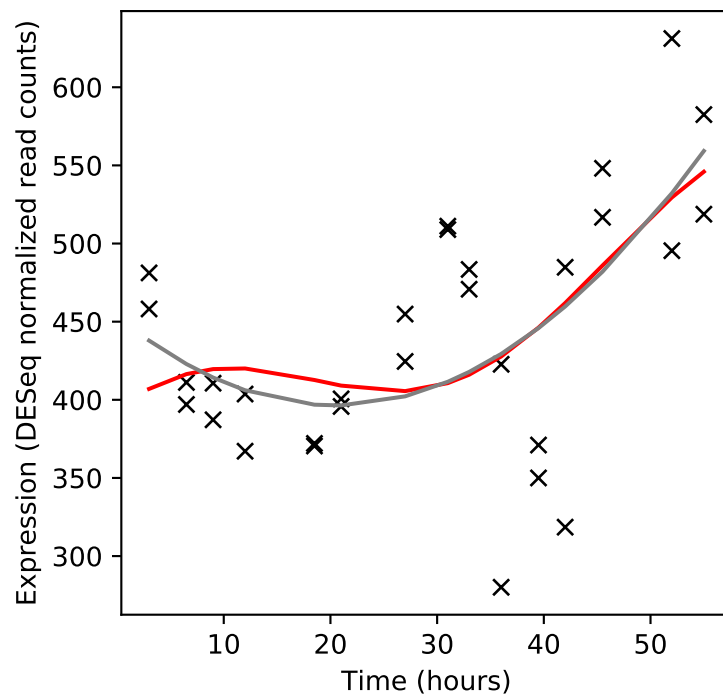
Rv1538c/ansA



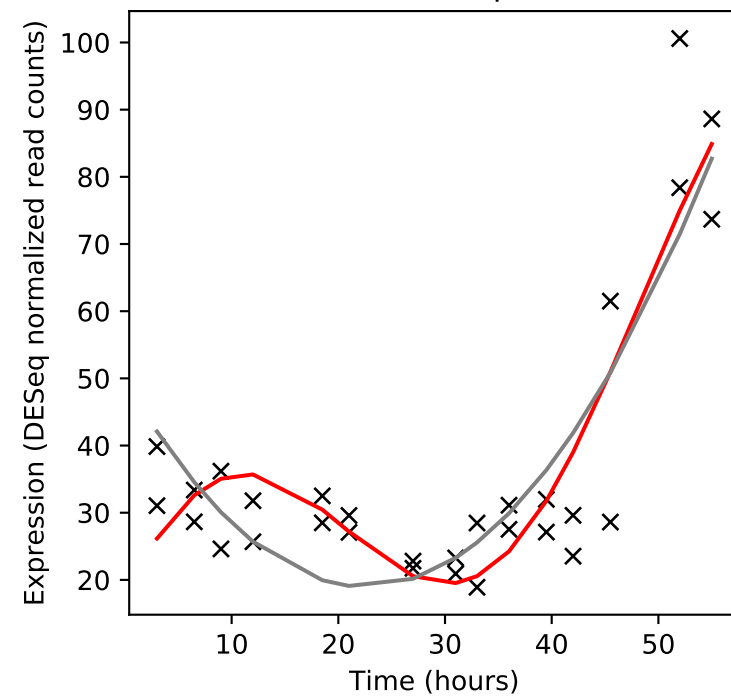
Rv1539/lspA



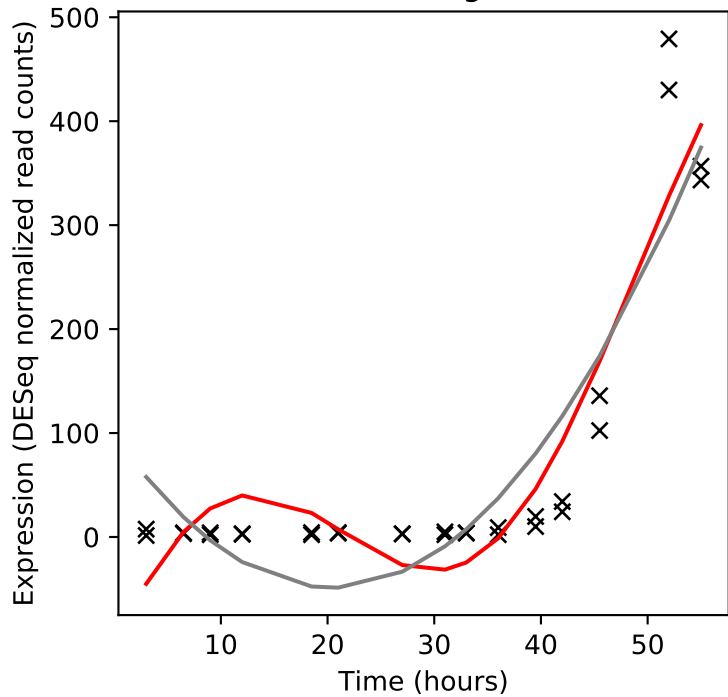
Rv1540/-



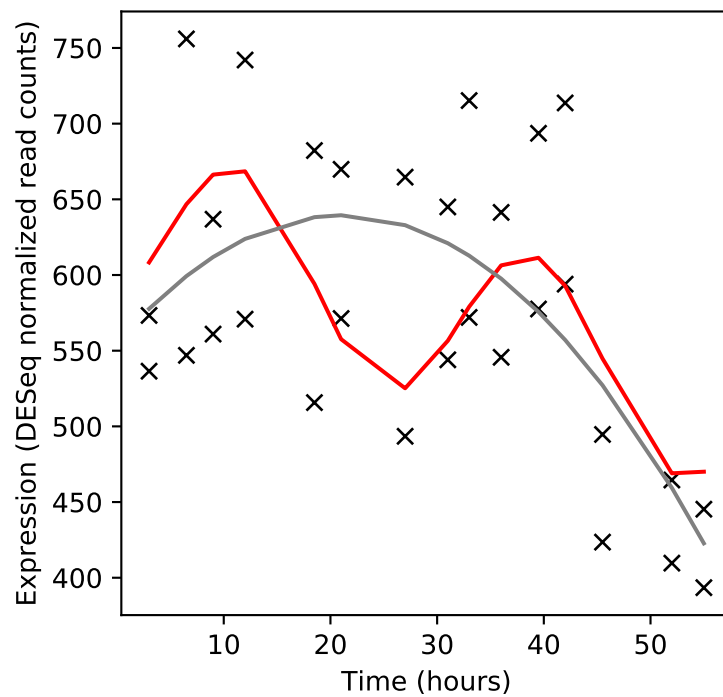
Rv1541c/lprI



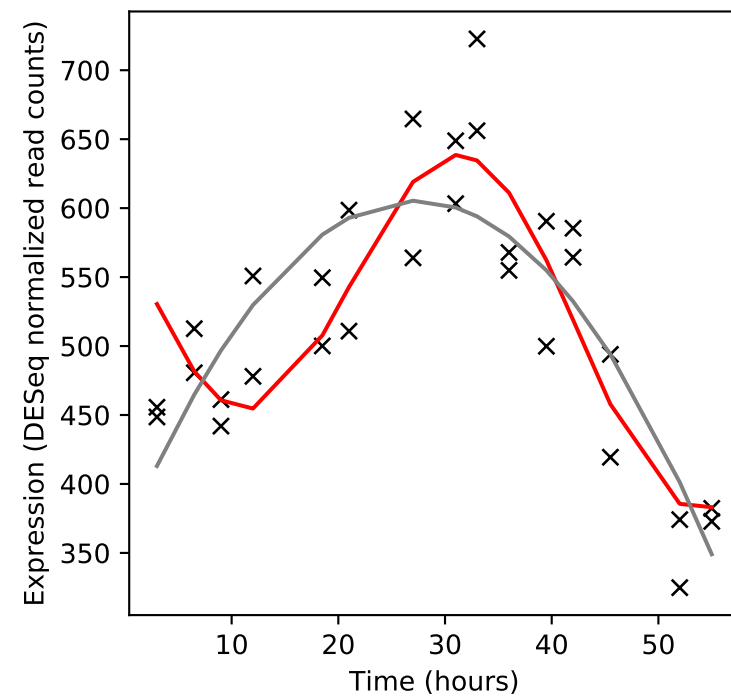
Rv1542c/glbN



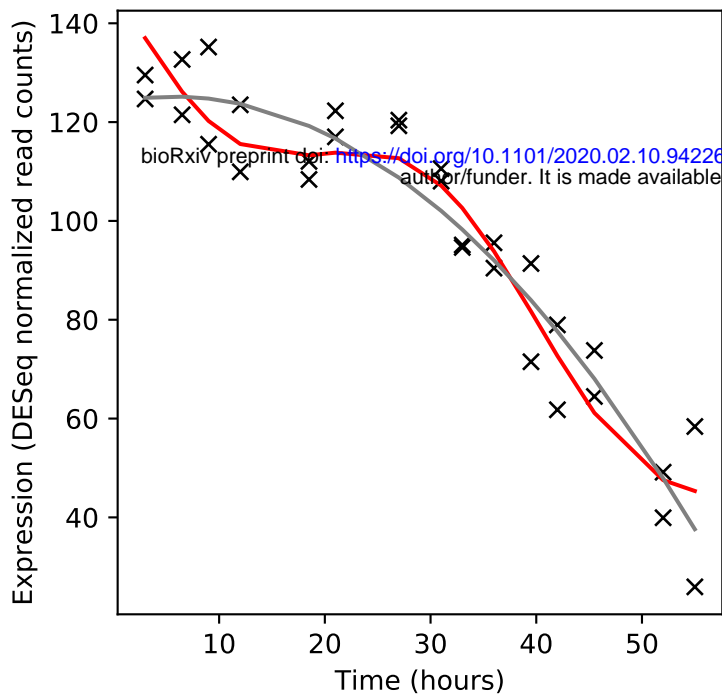
Rv1543/-



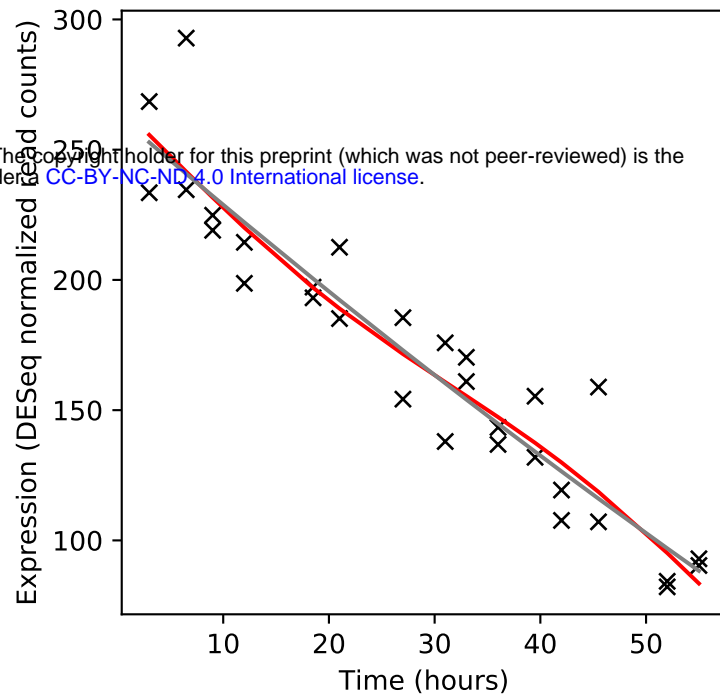
Rv1544/-



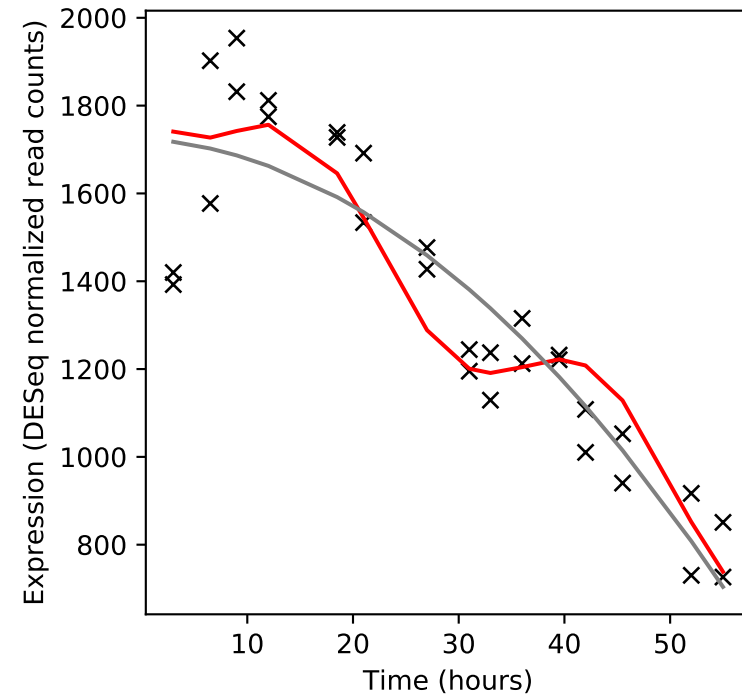
Rv1545/-



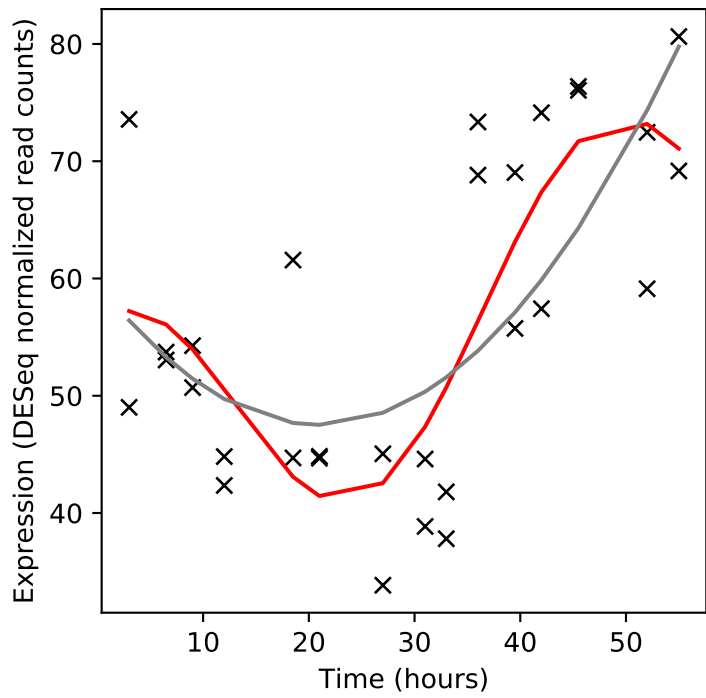
Rv1546/-



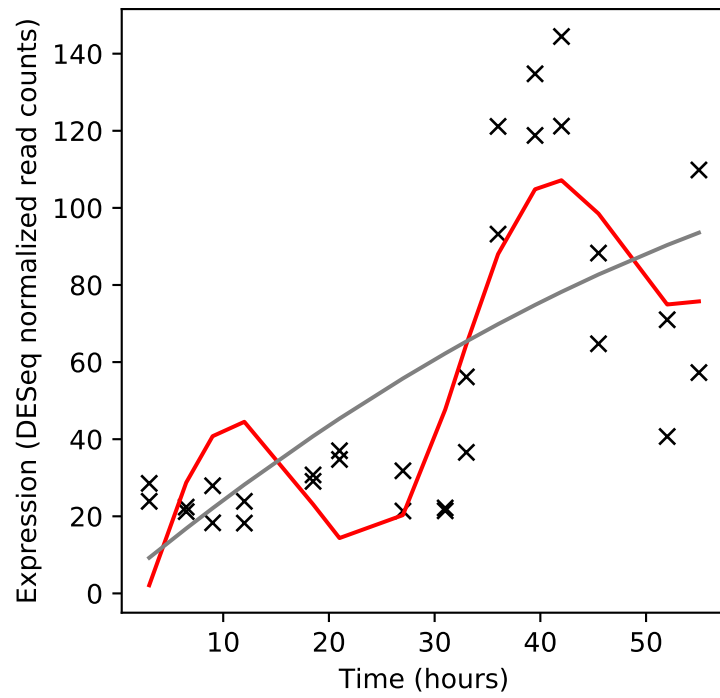
Rv1547/dnaE1



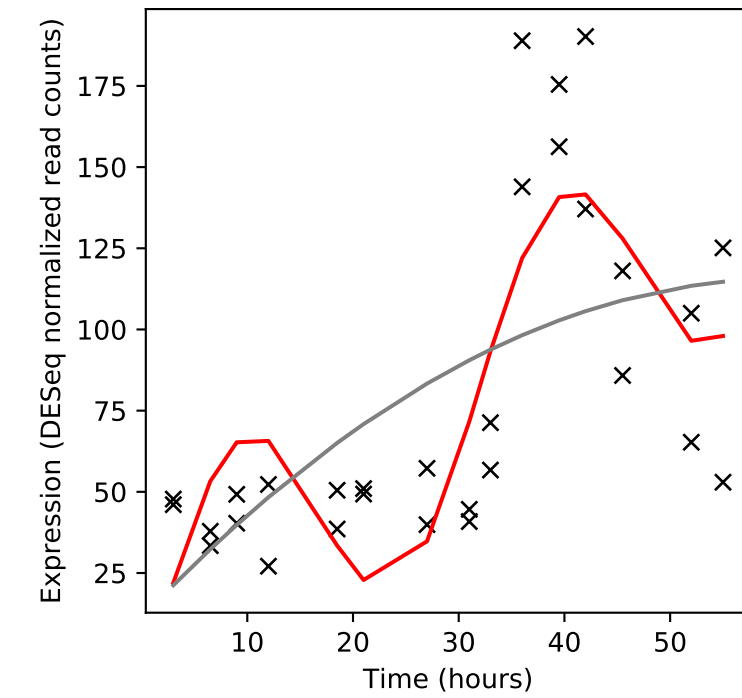
Rv1548c/PPE21



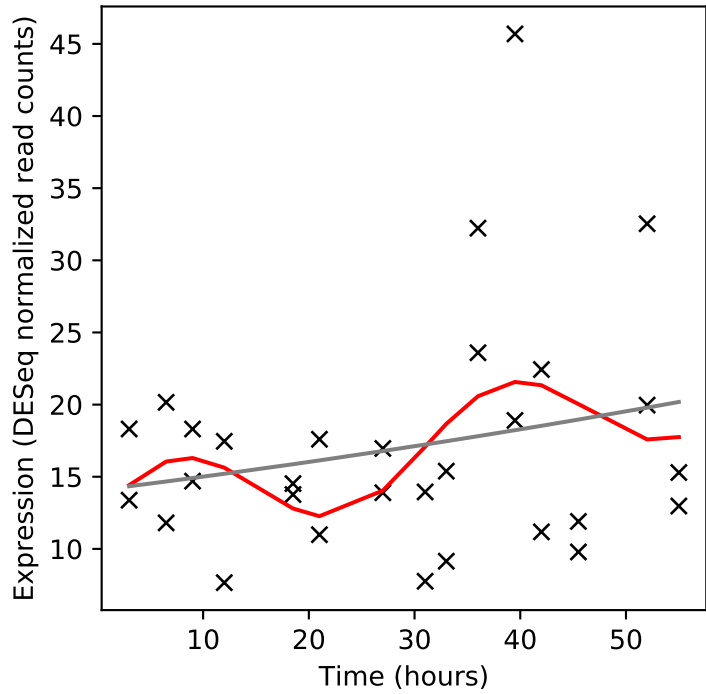
Rv1549/fadD11.1



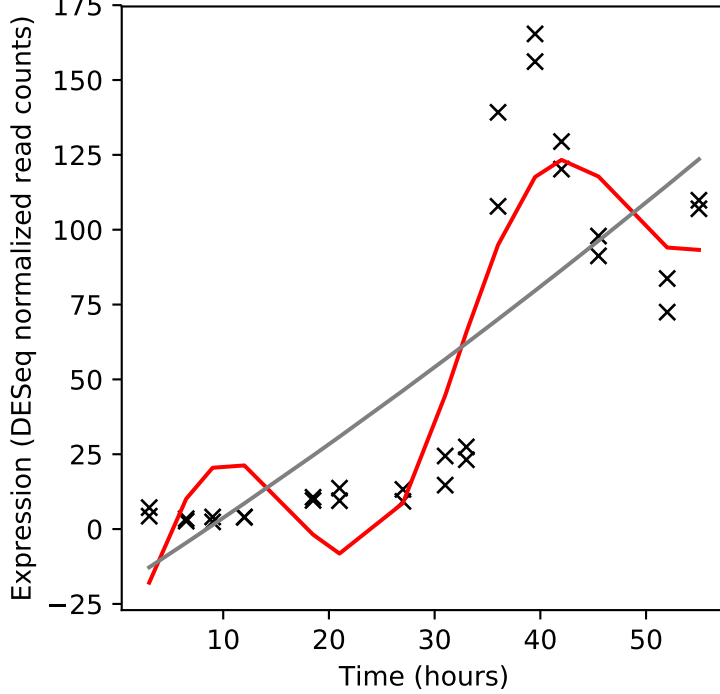
Rv1550/fadD11



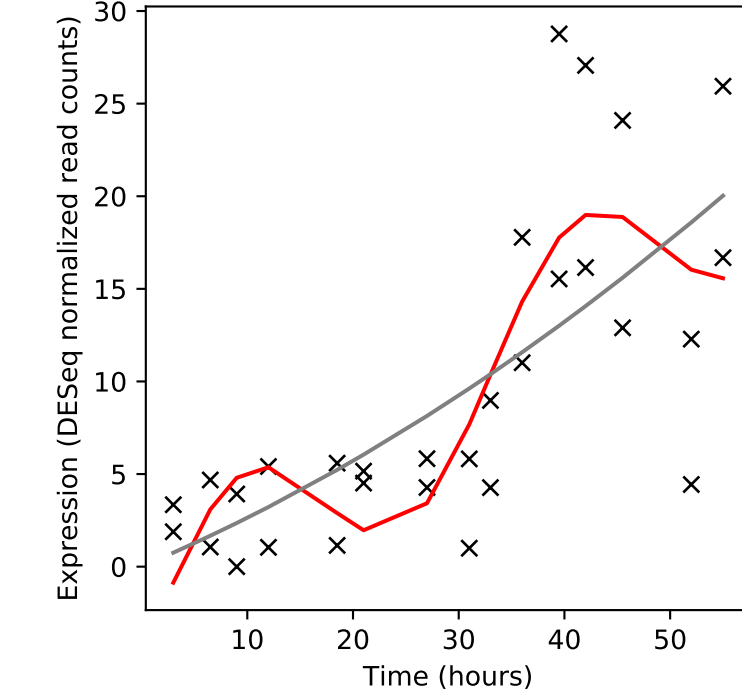
Rv1551/plsB1



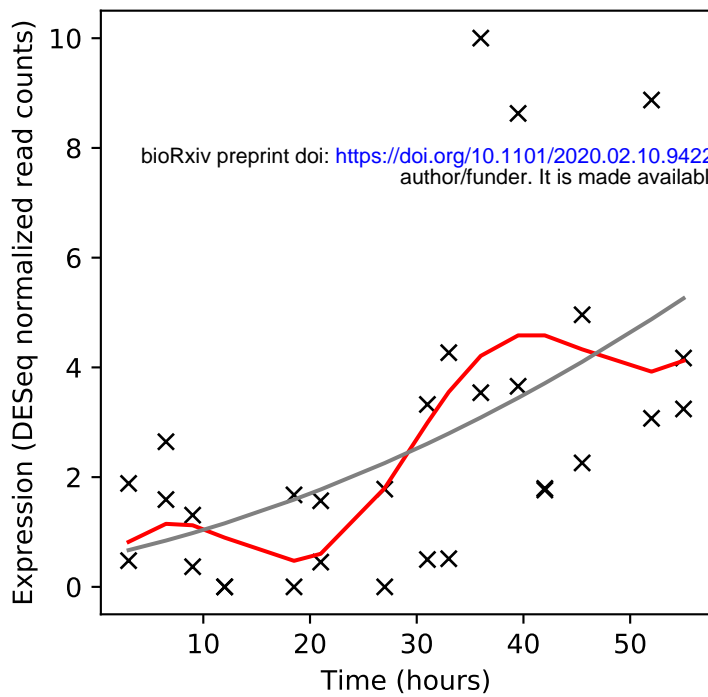
Rv1552/frdA



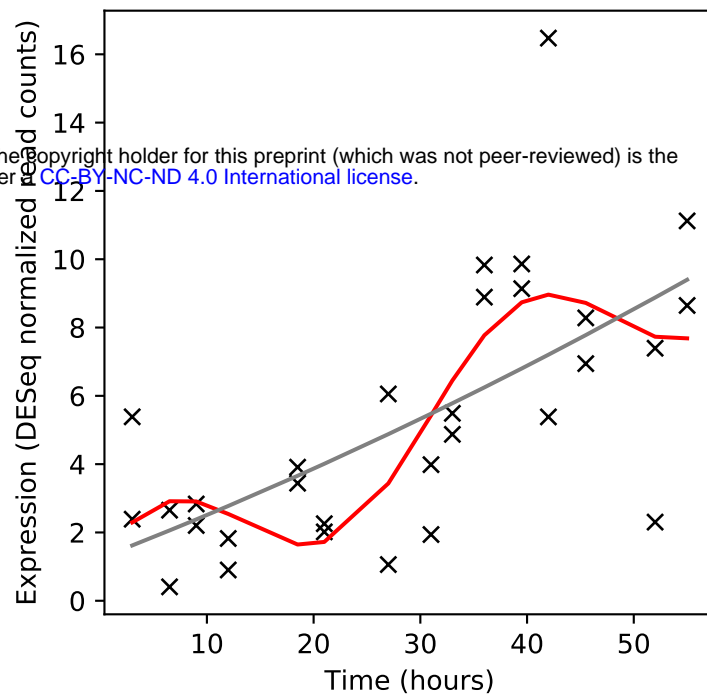
Rv1553/frdB



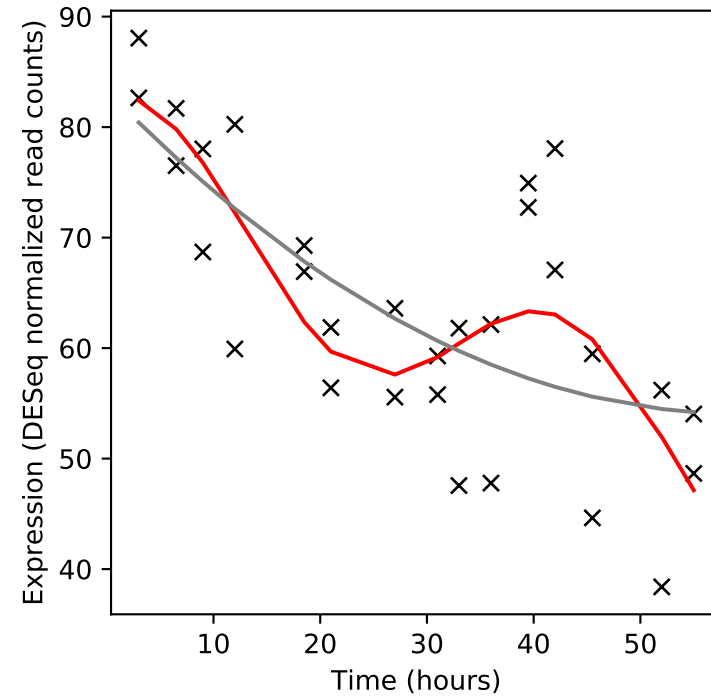
Rv1554/frdC



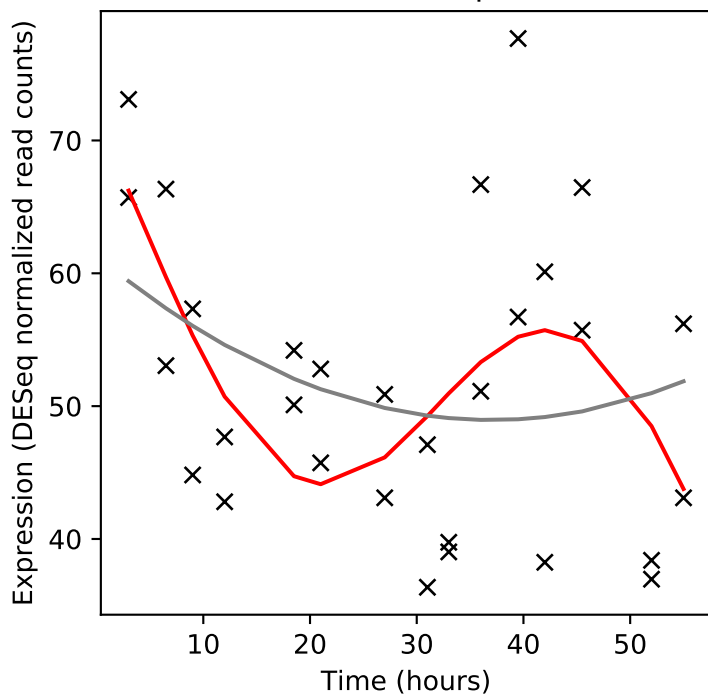
Rv1555/frdD



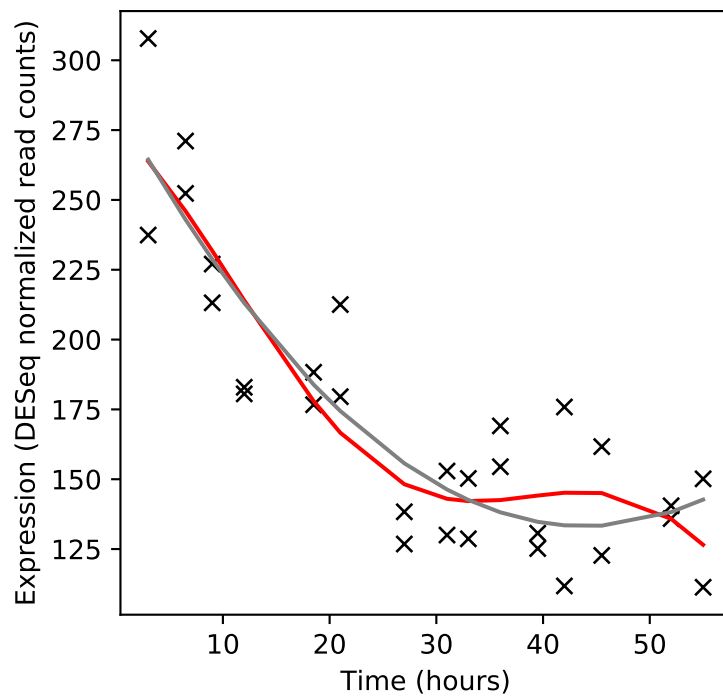
Rv1556/-



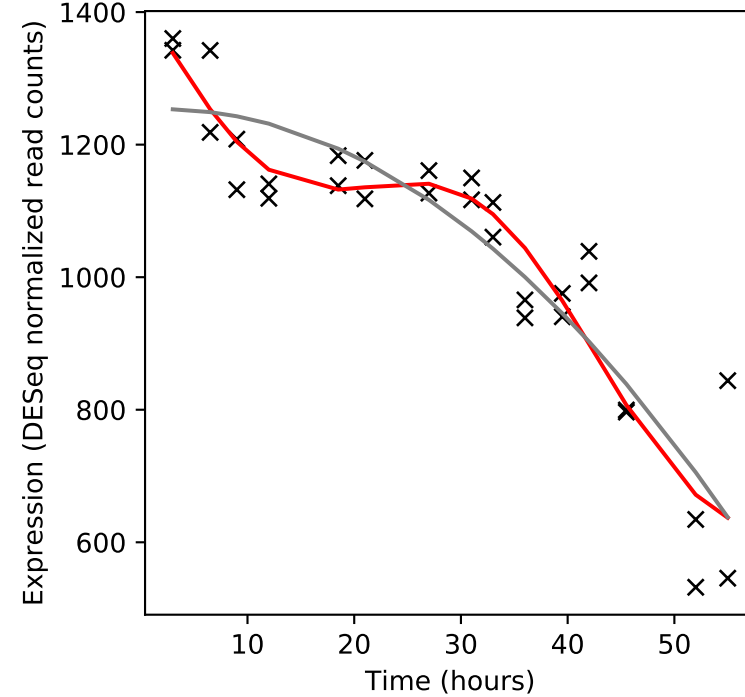
Rv1557/mmpL6



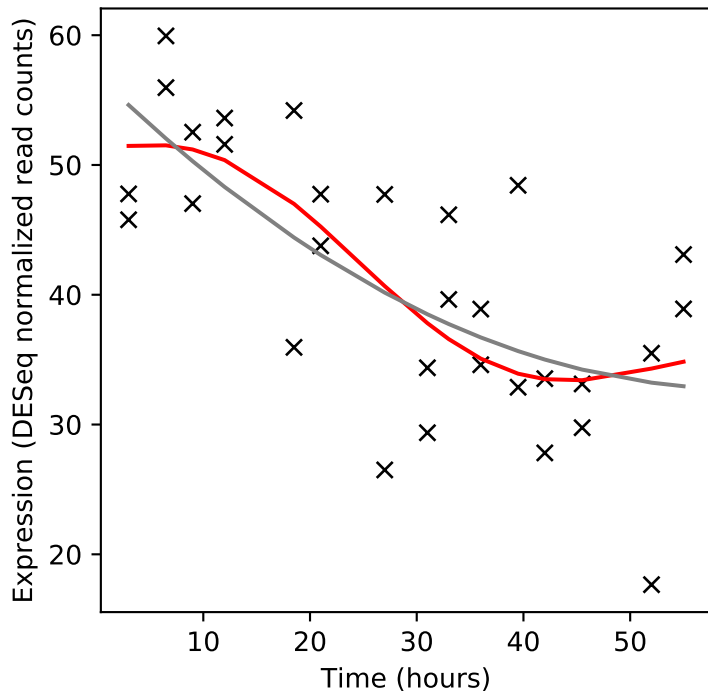
Rv1558/-



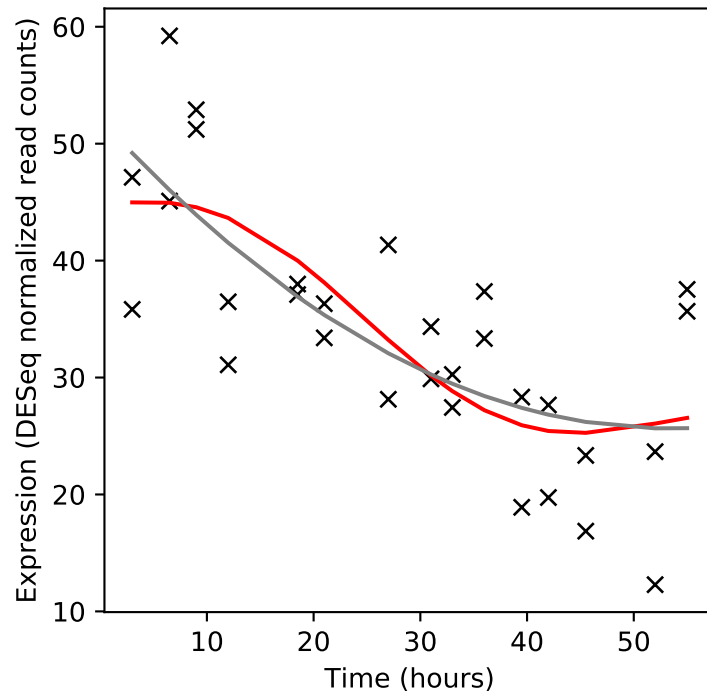
Rv1559/ilvA



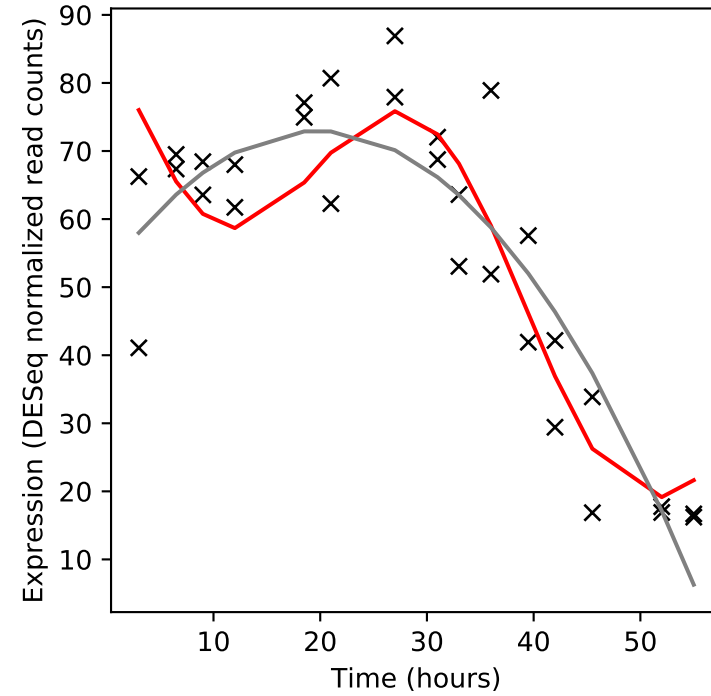
Rv1560/vapB11



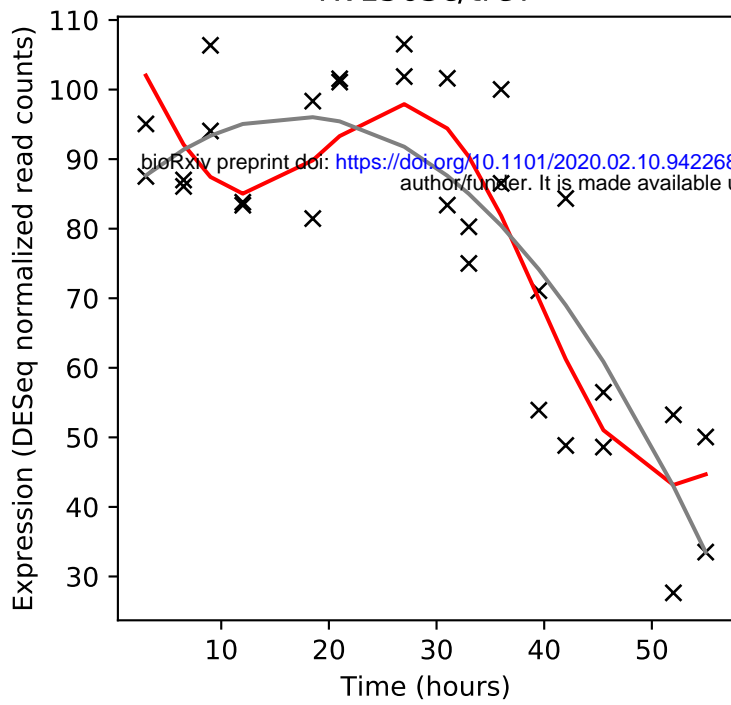
Rv1561/vapC11



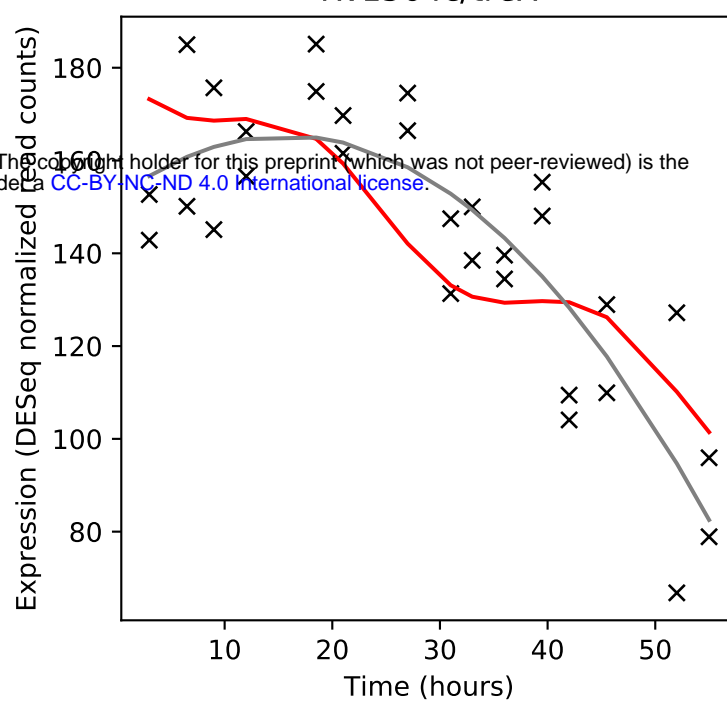
Rv1562c/treZ



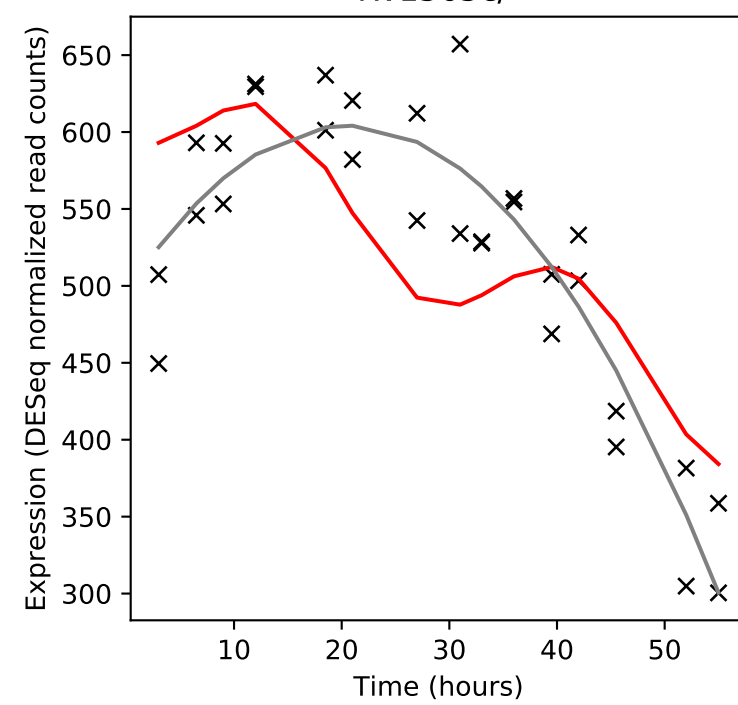
Rv1563c/treY



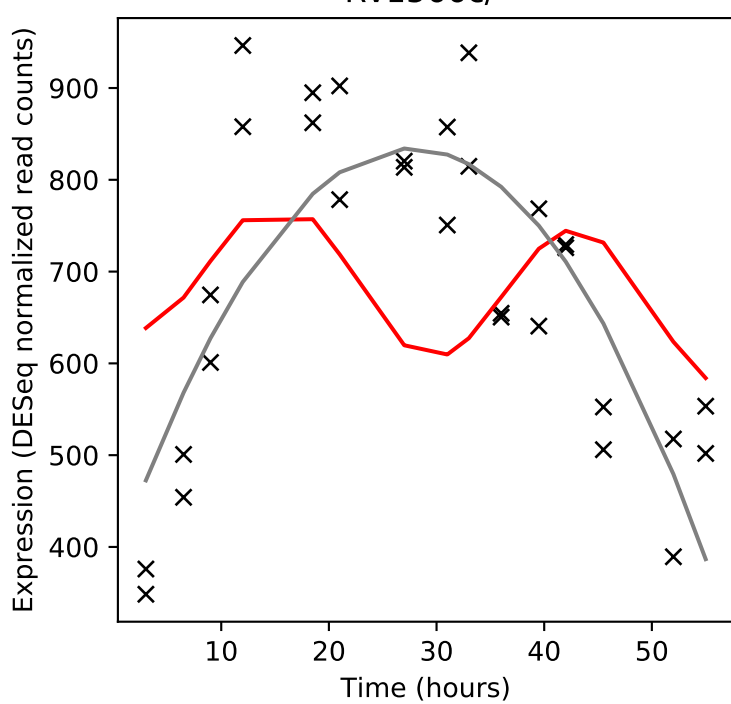
Rv1564c/treX



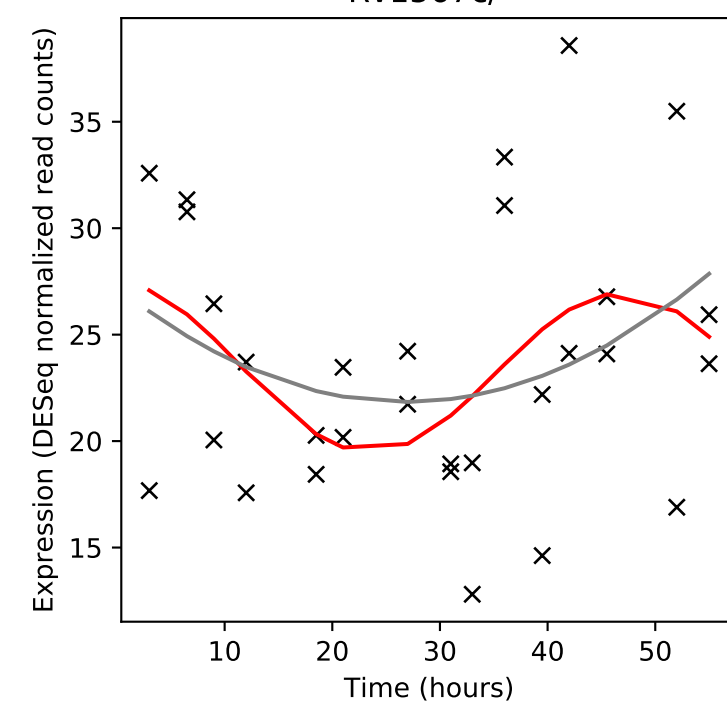
Rv1565c/-



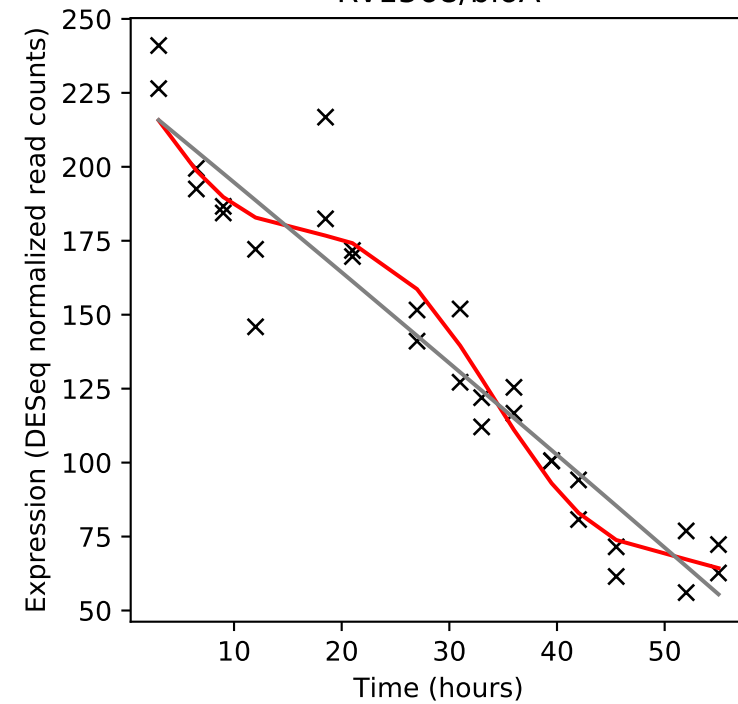
Rv1566c/-



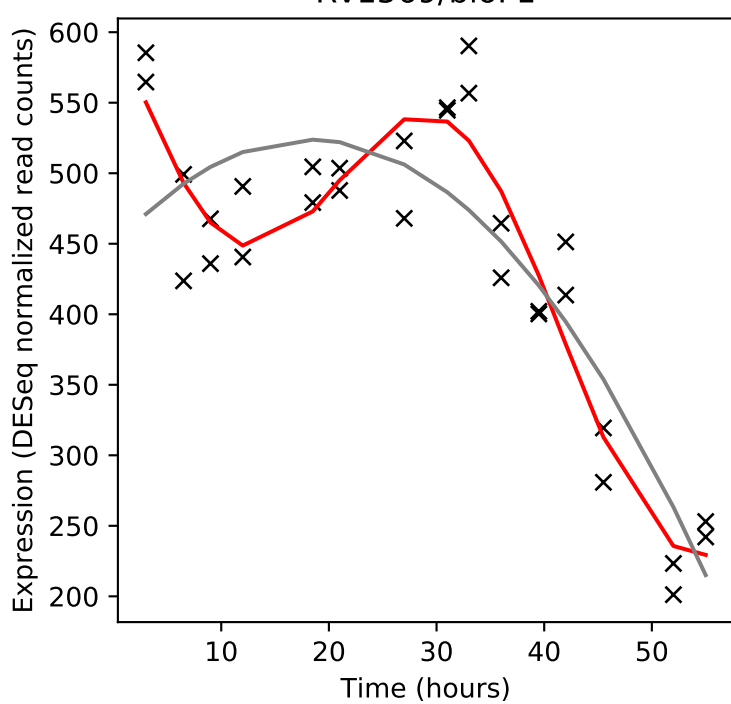
Rv1567c/-



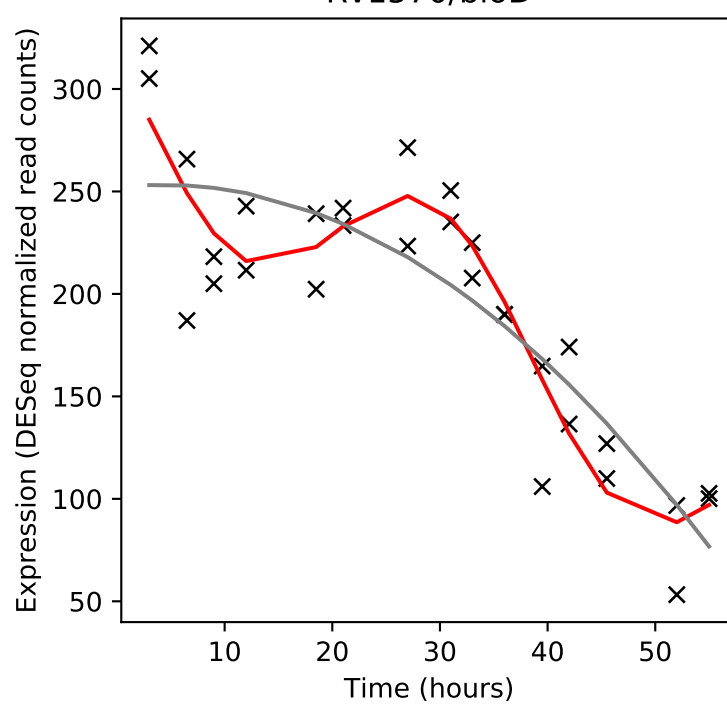
Rv1568/bioA



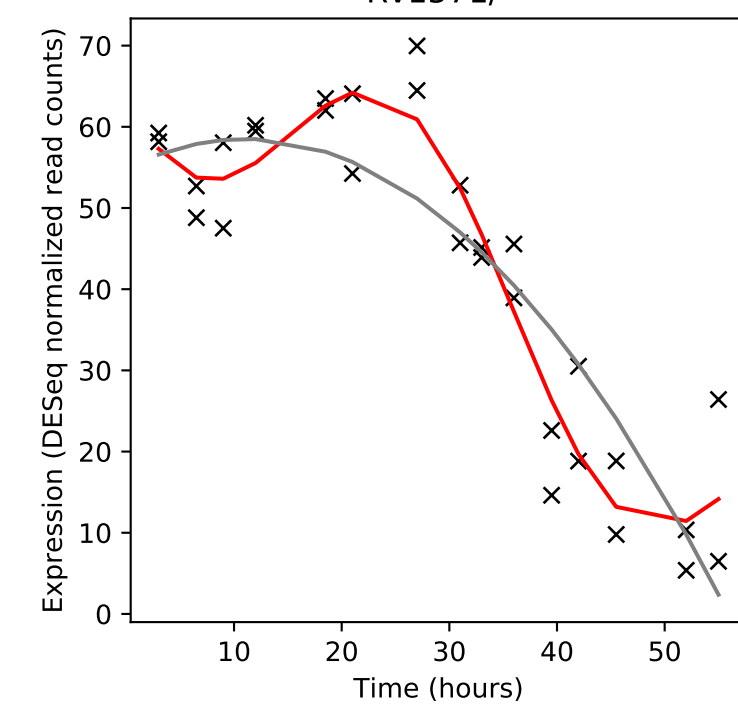
Rv1569/bioF1



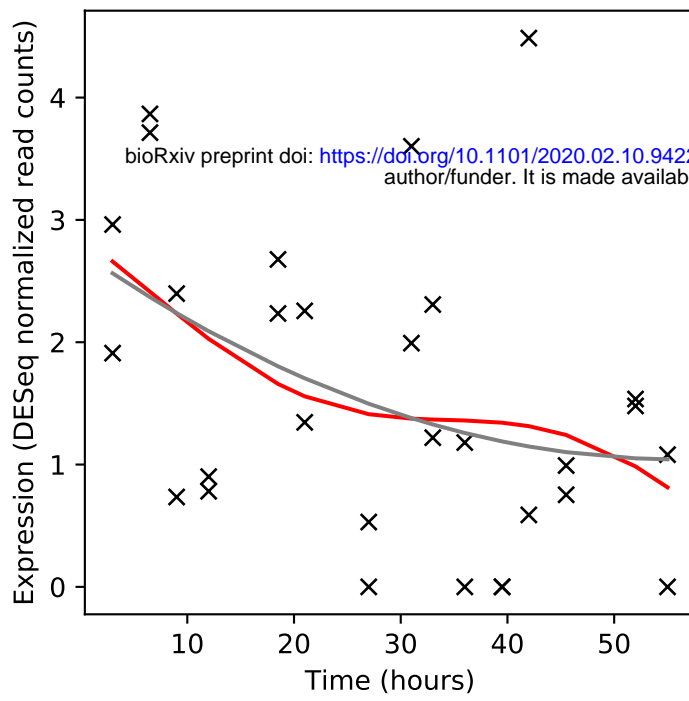
Rv1570/bioD



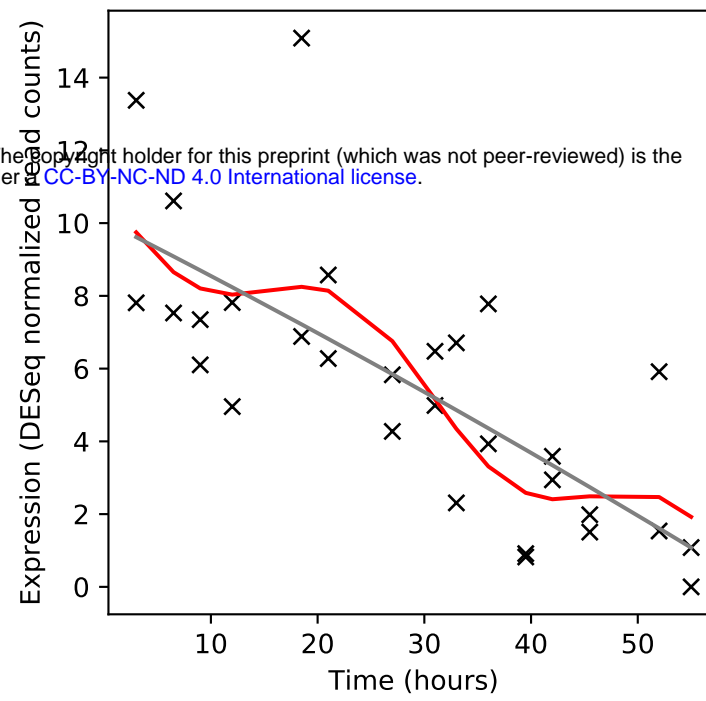
Rv1571/-



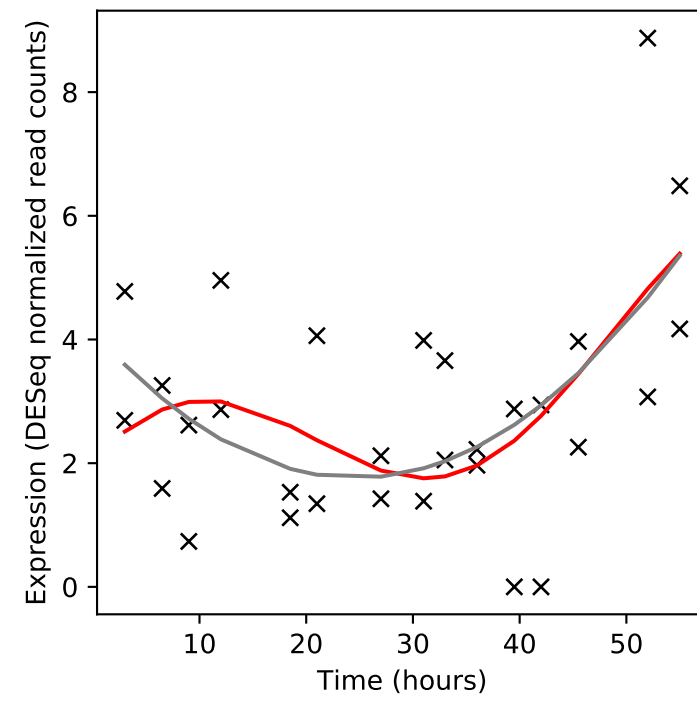
Rv1572c/-



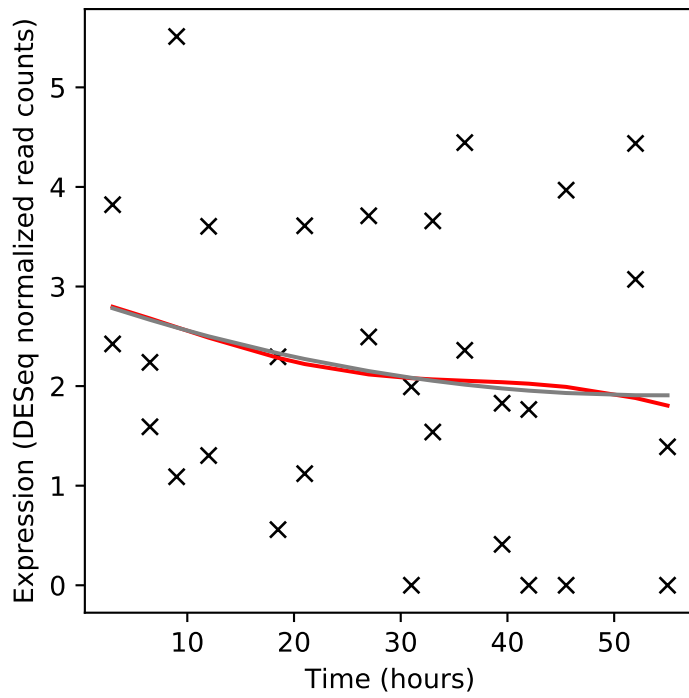
Rv1573/-



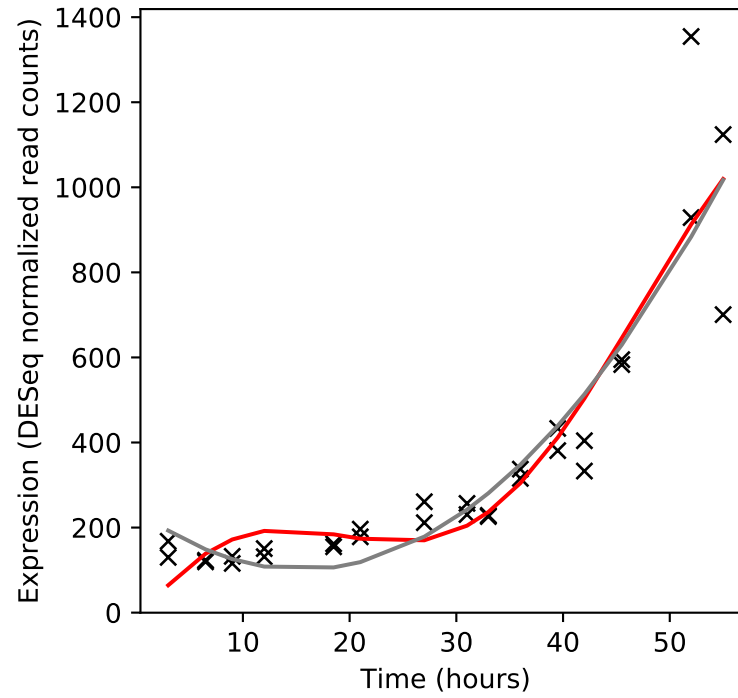
Rv1574/-



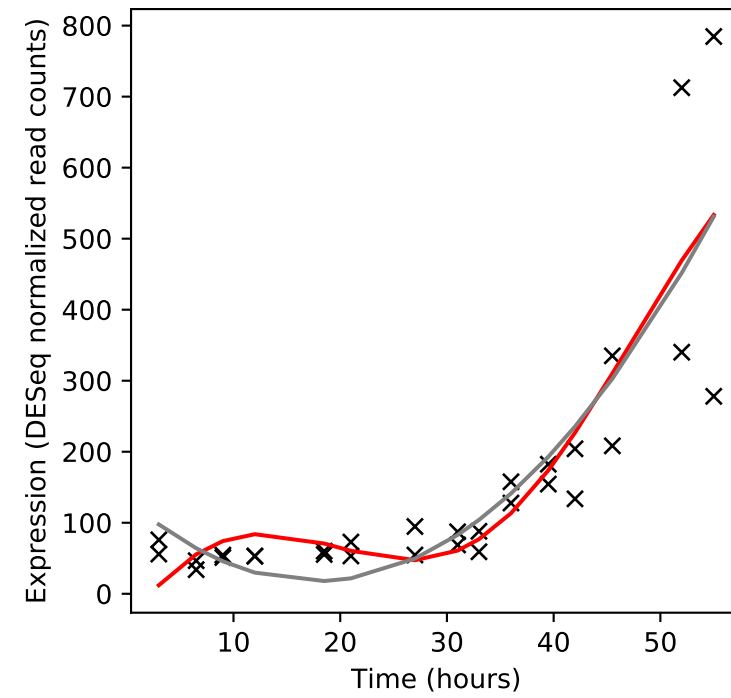
Rv1575/-



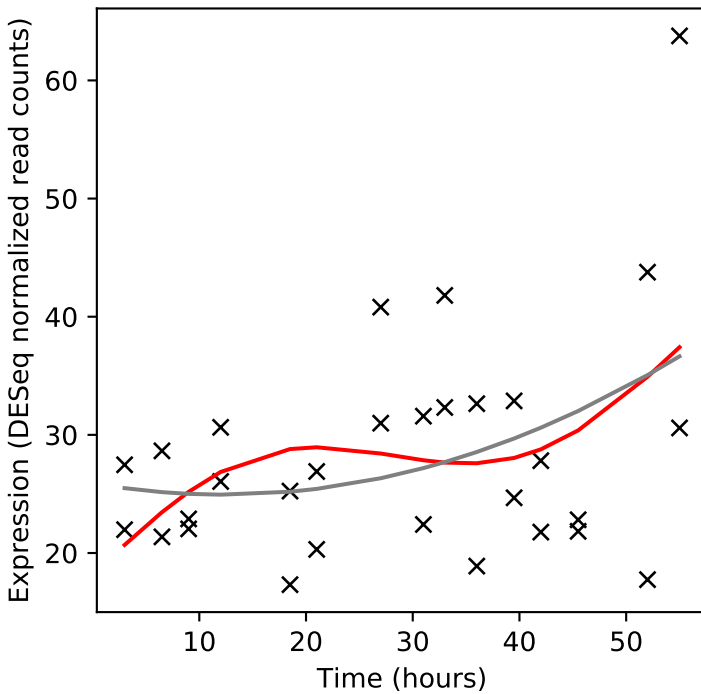
Rv1576c/-



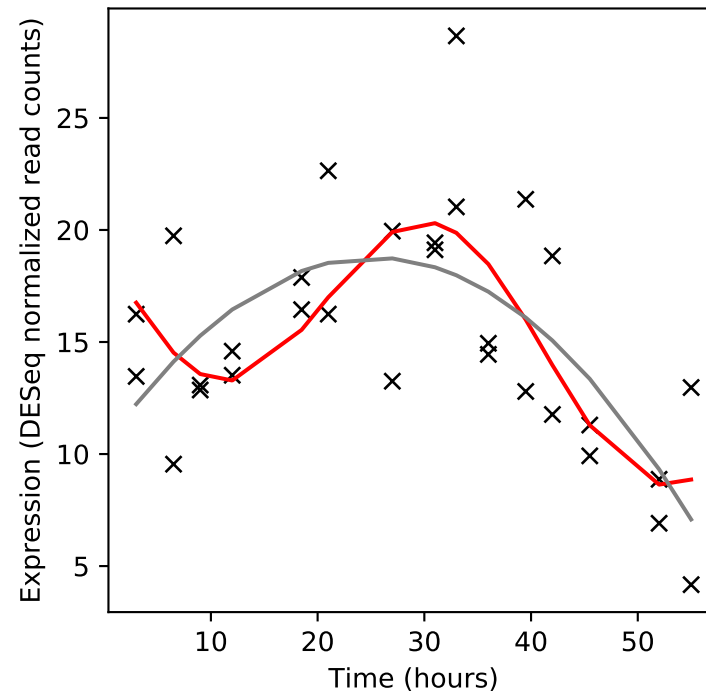
Rv1577c/-



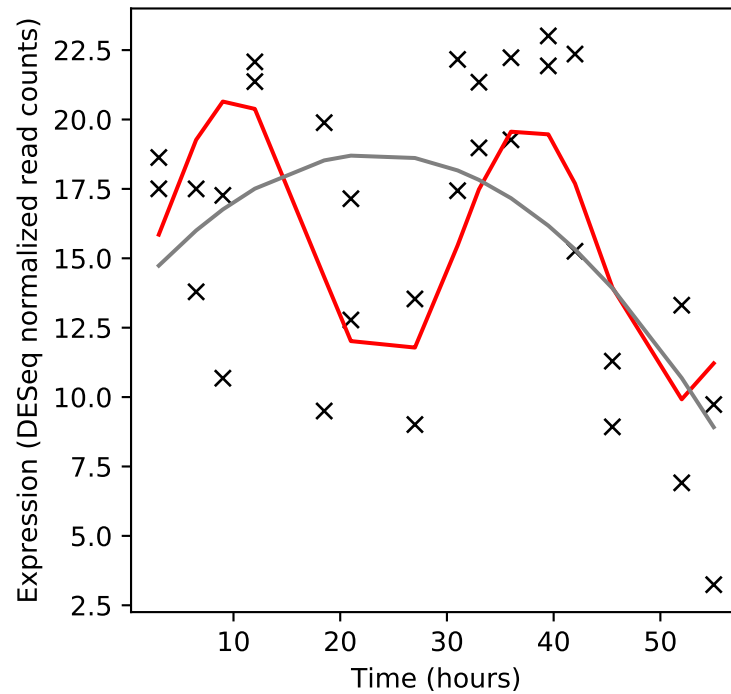
Rv1578c/-



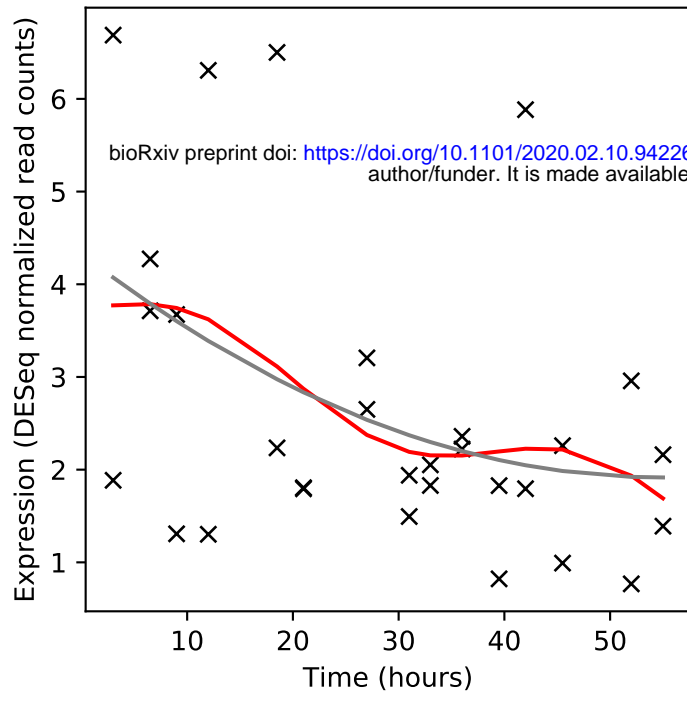
Rv1579c/-



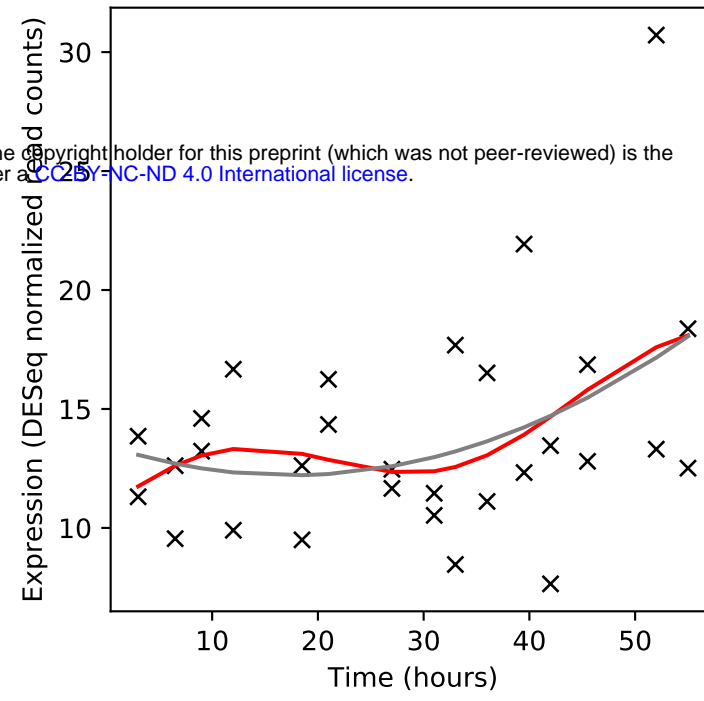
Rv1580c/-



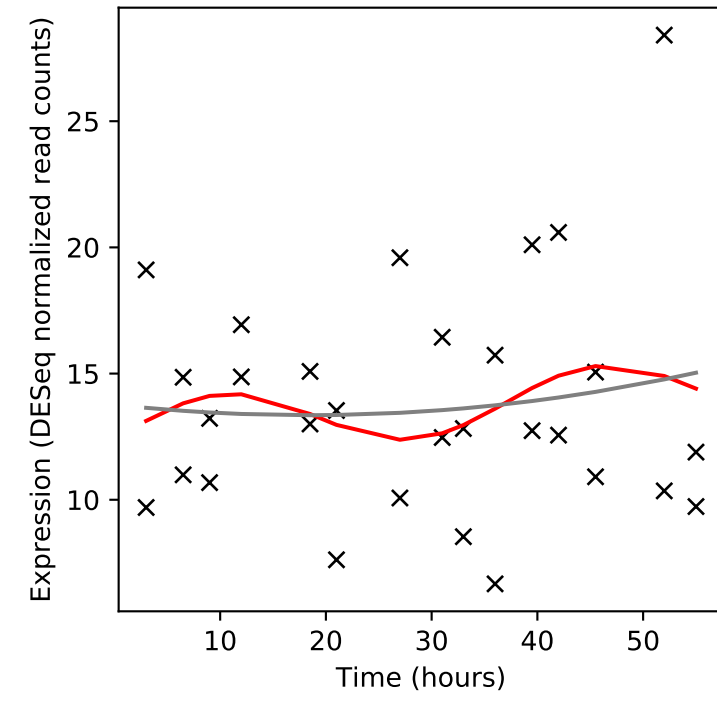
Rv1581c/-



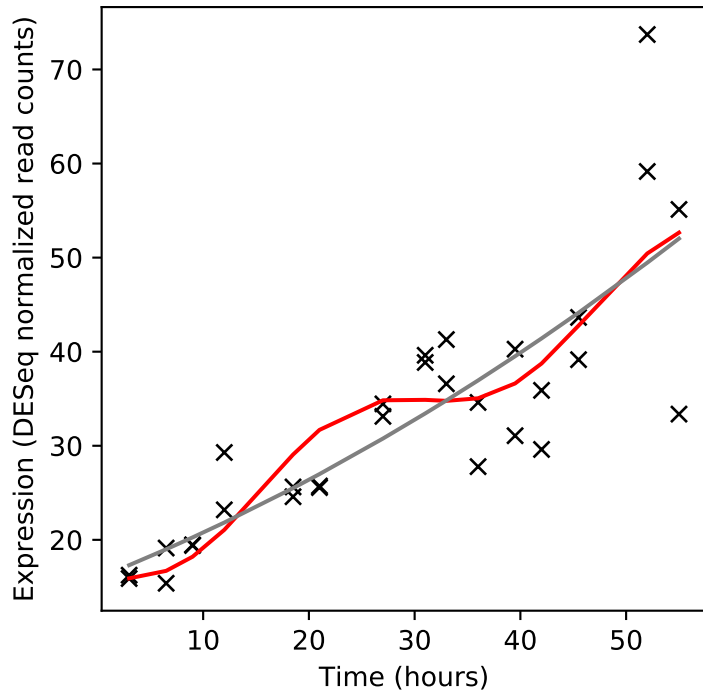
Rv1582c/-



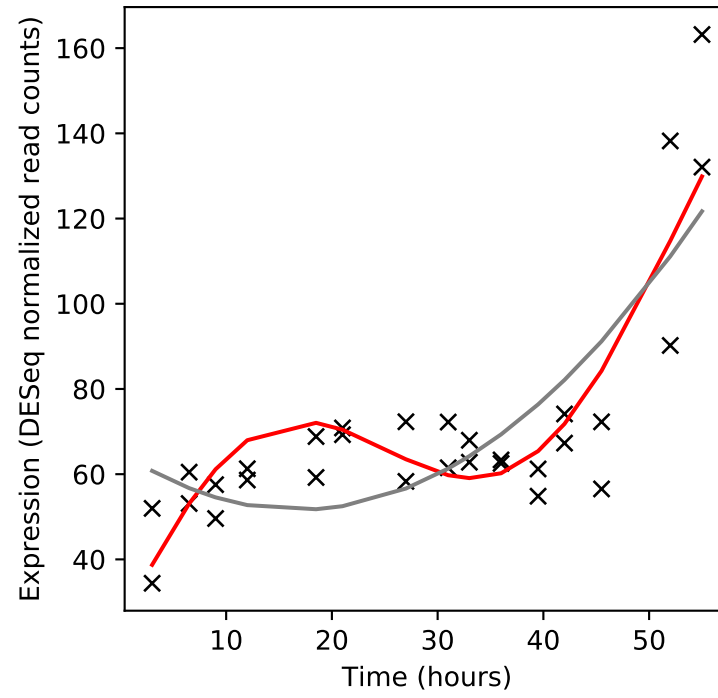
Rv1583c/-



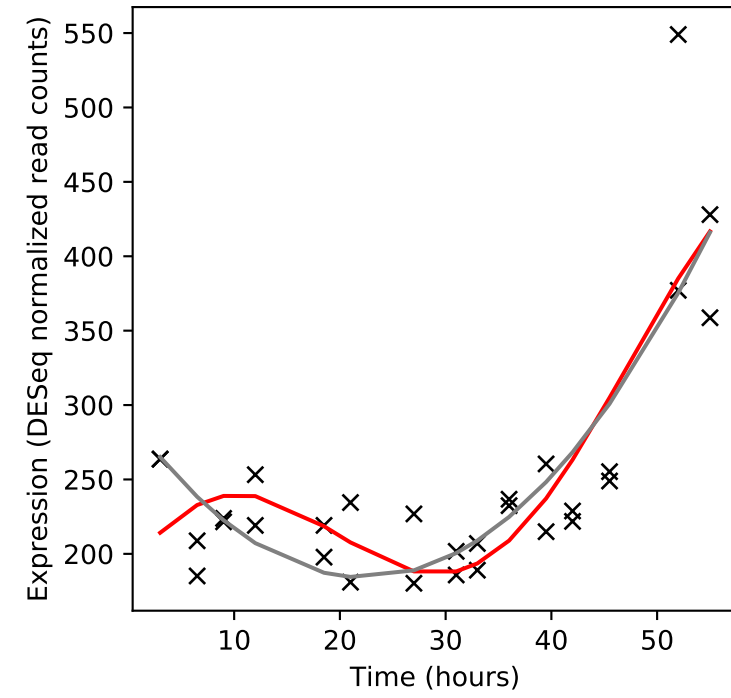
Rv1584c/-



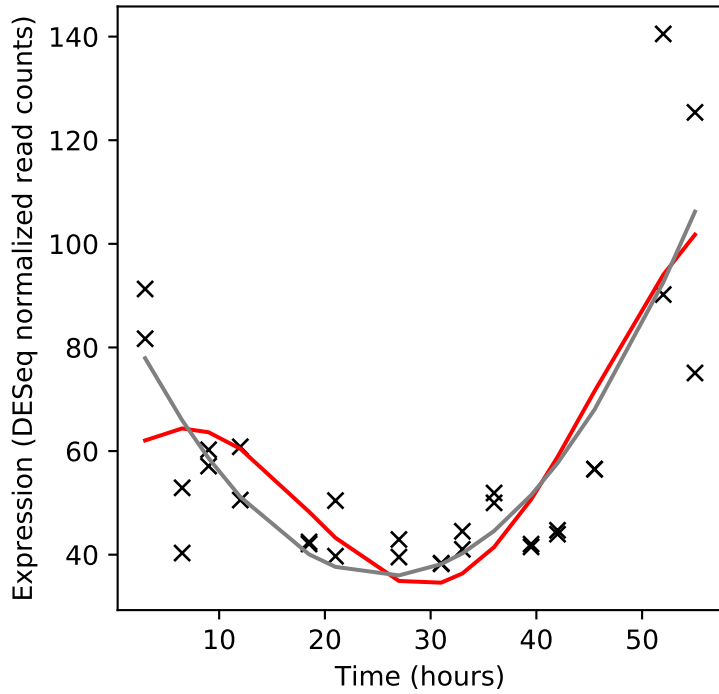
Rv1585c/-



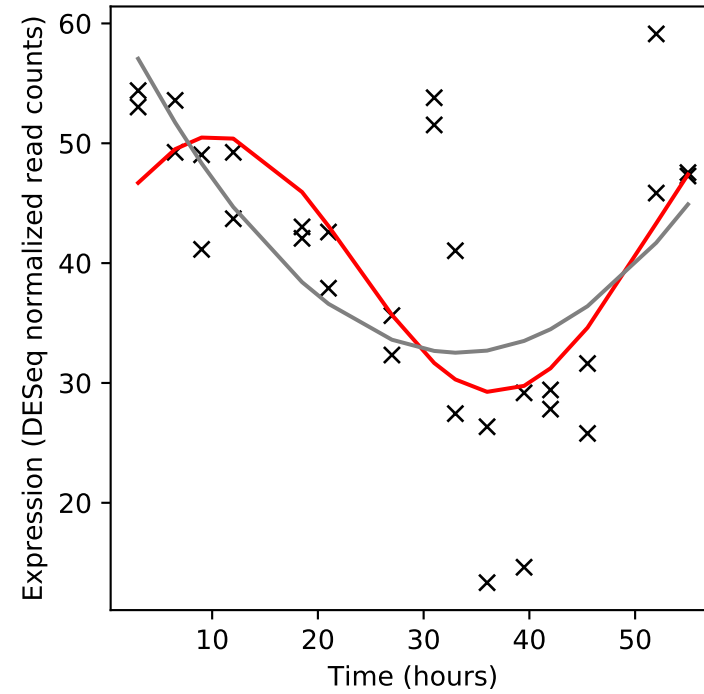
Rv1586c/-



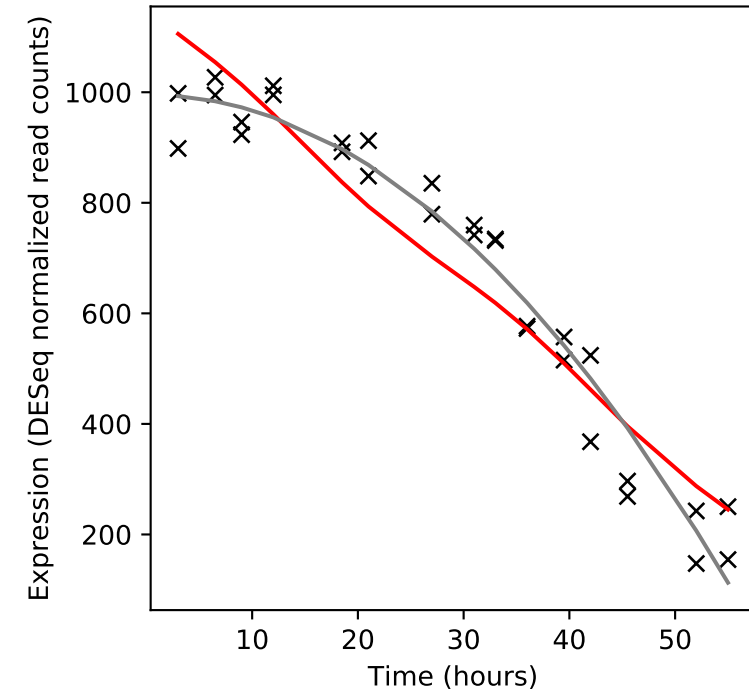
Rv1587c/-



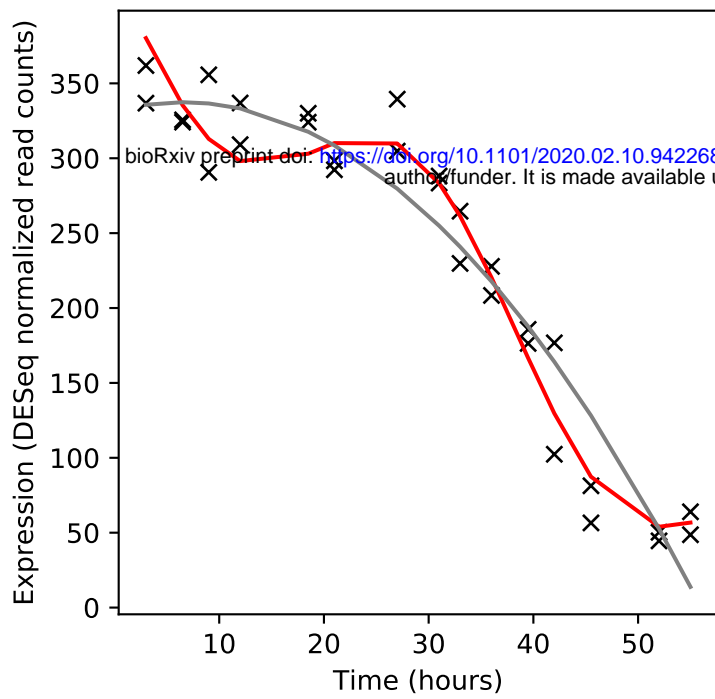
Rv1588c/-



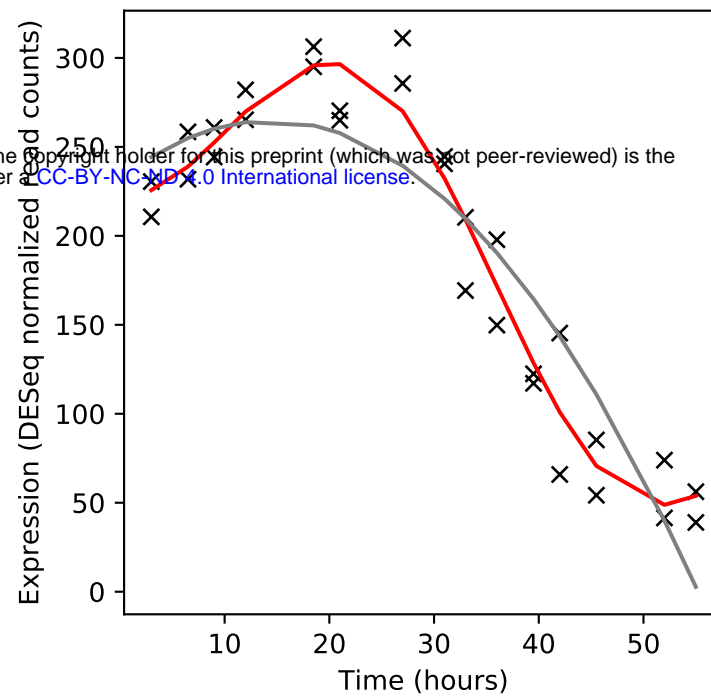
Rv1589/bioB



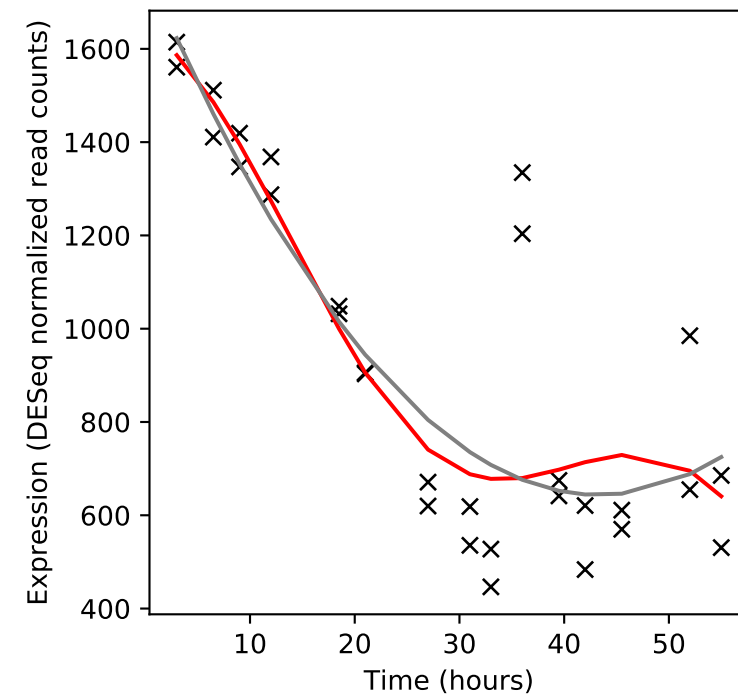
Rv1590/-



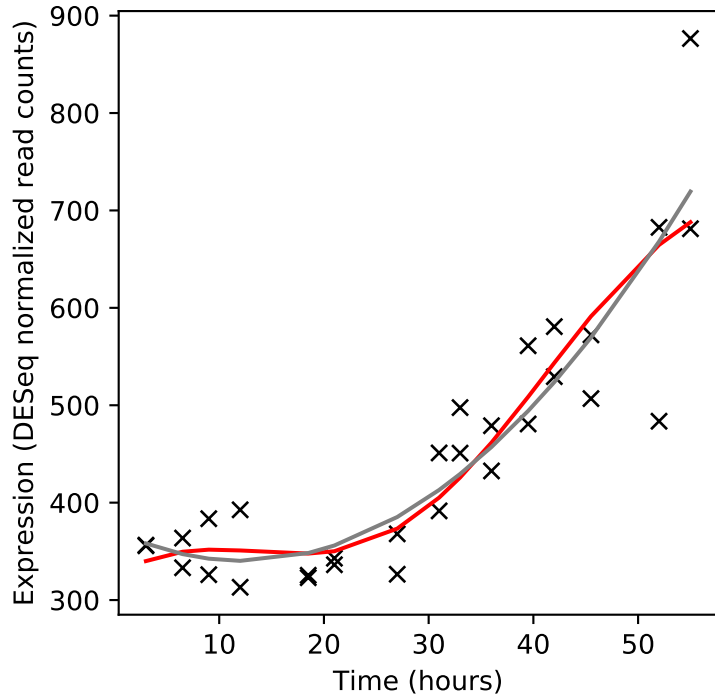
Rv1591/-



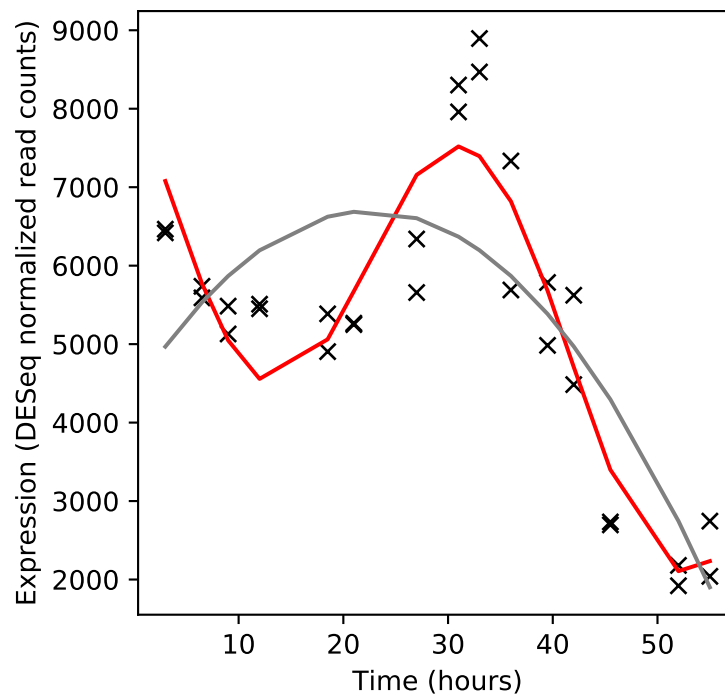
Rv1592c/-



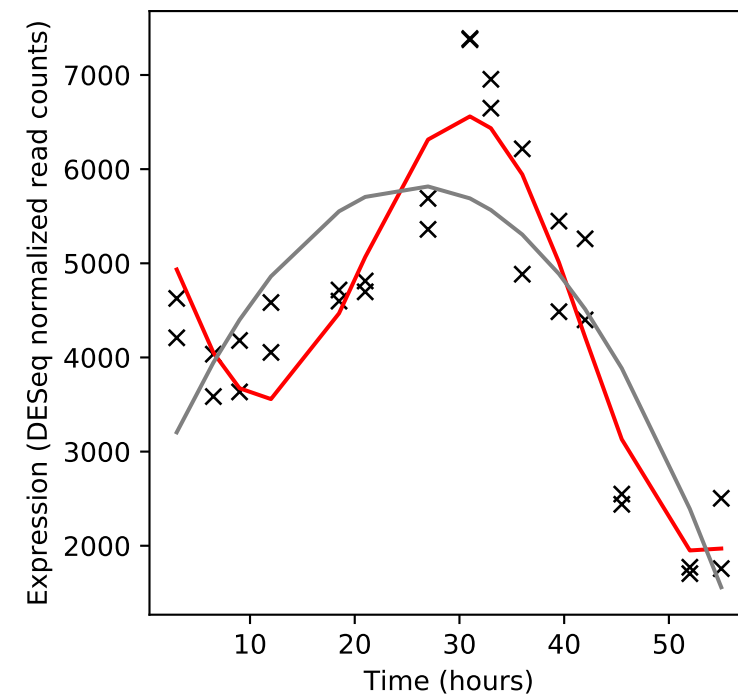
Rv1593c/-



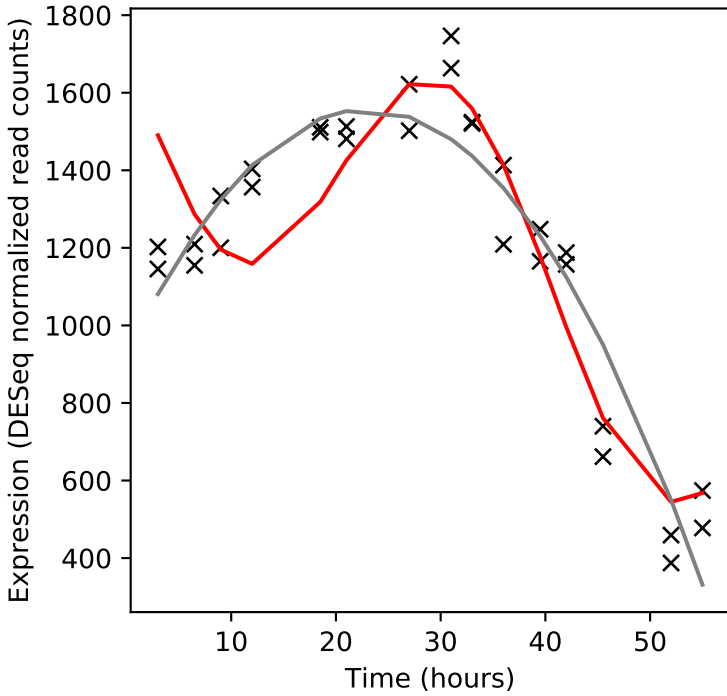
Rv1594/nadA



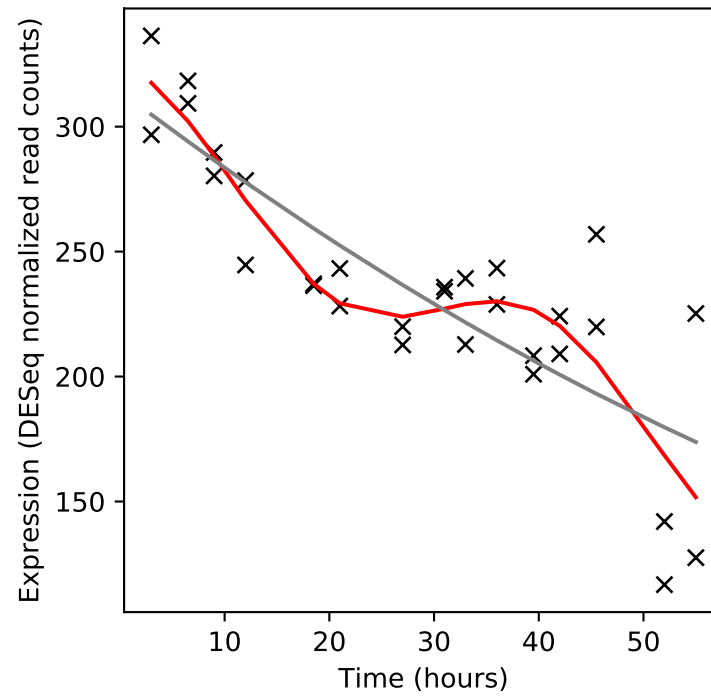
Rv1595/nadB



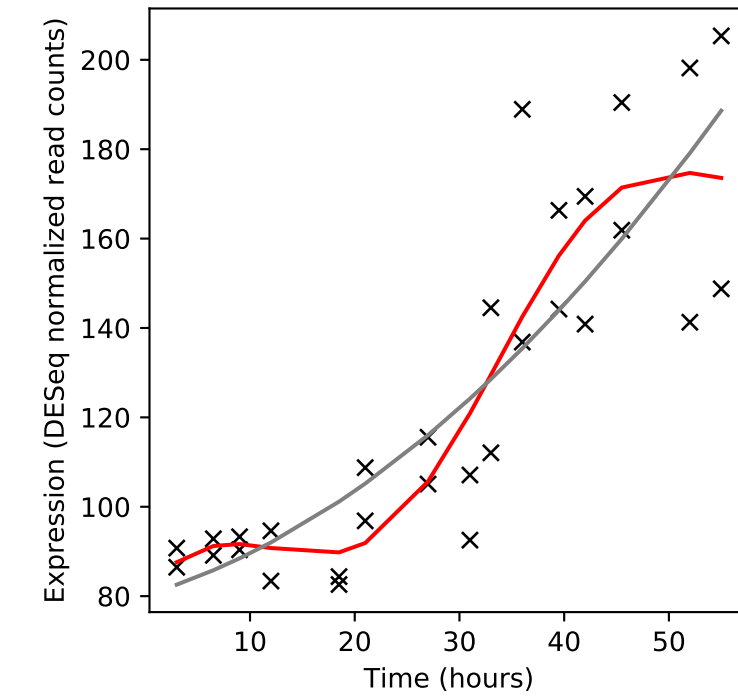
Rv1596/nadC



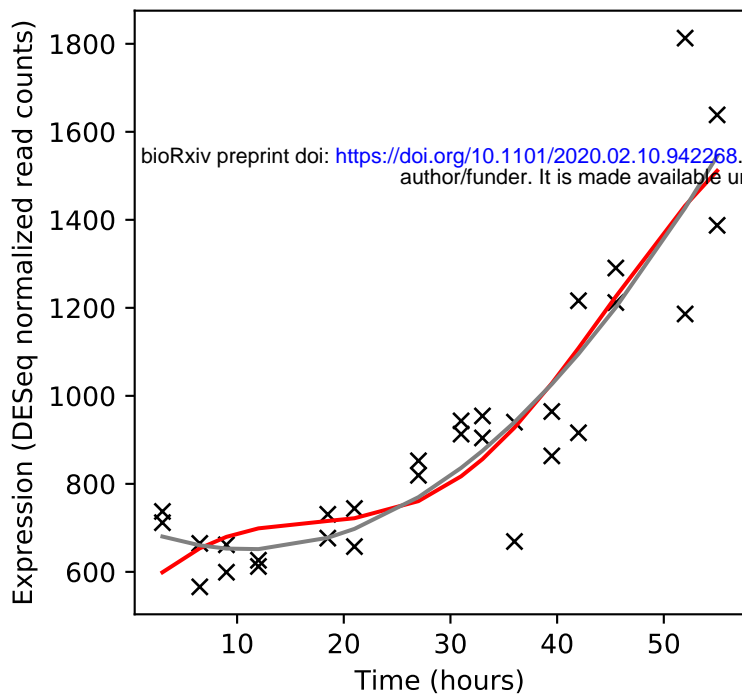
Rv1597/-



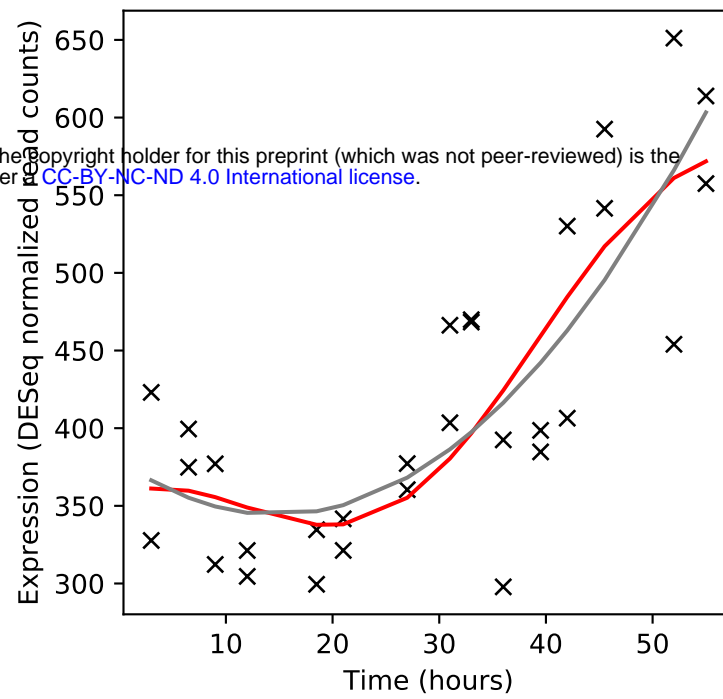
Rv1598c/-



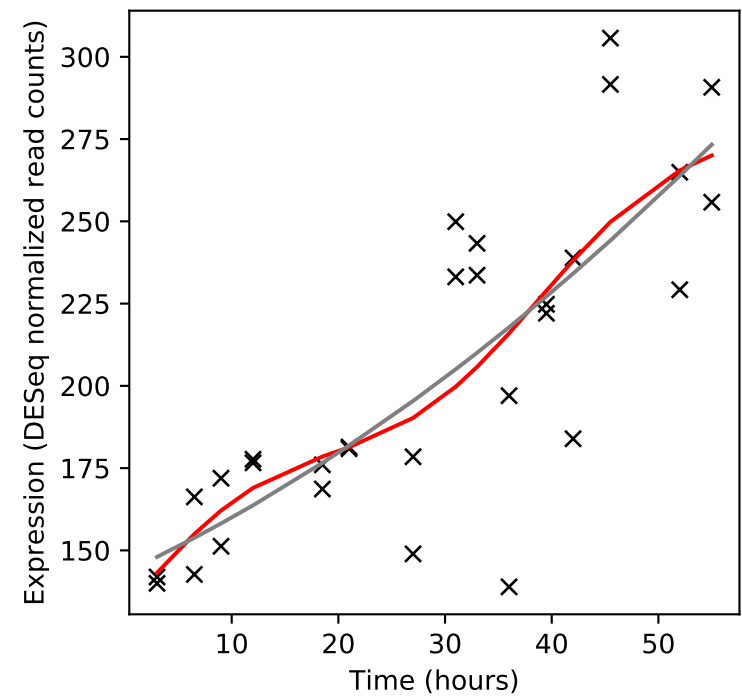
Rv1599/hisD



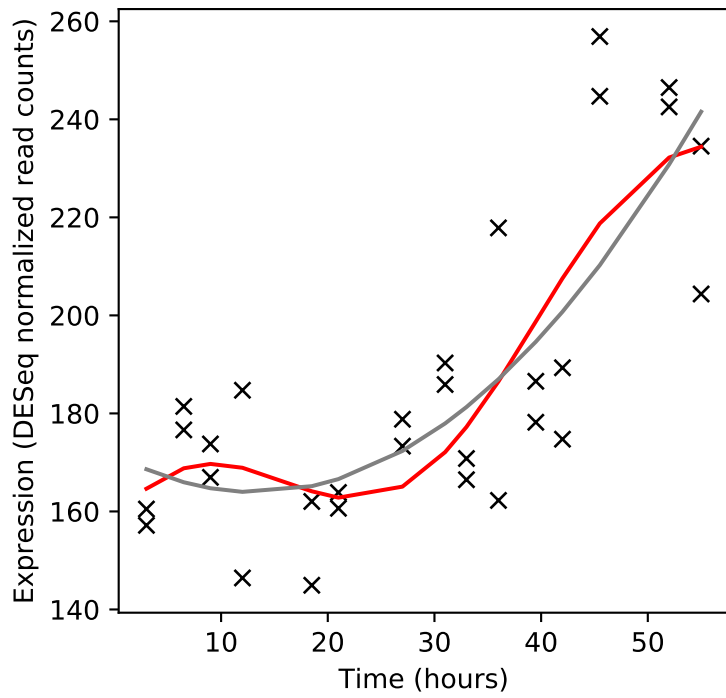
Rv1600/hisC1



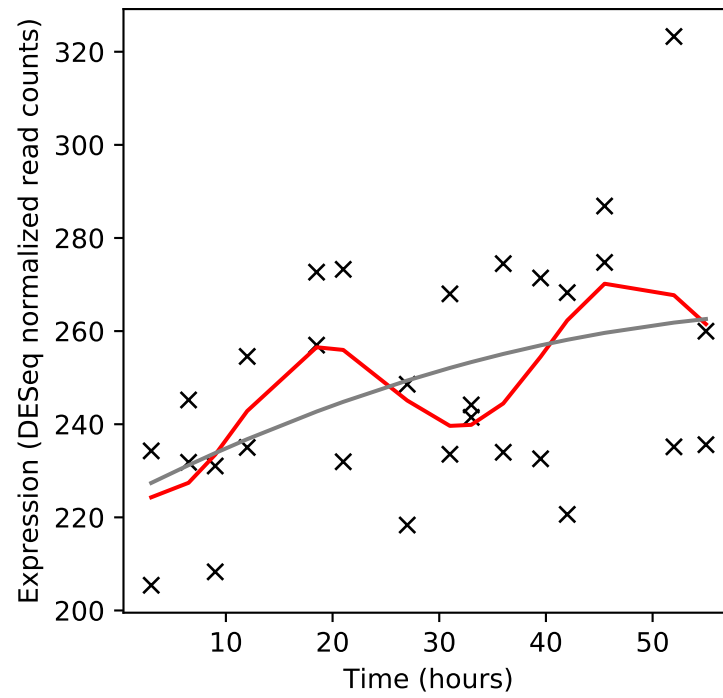
Rv1601/hisB



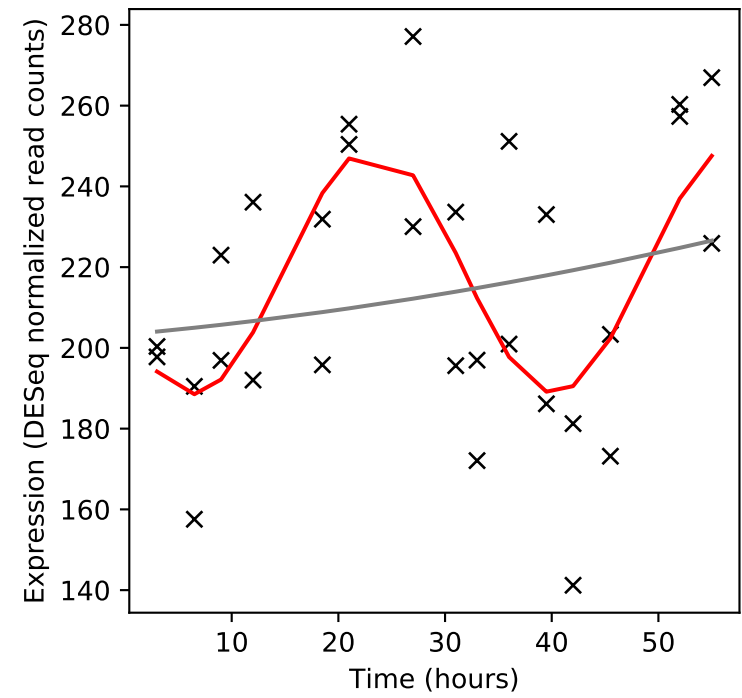
Rv1602/hisH



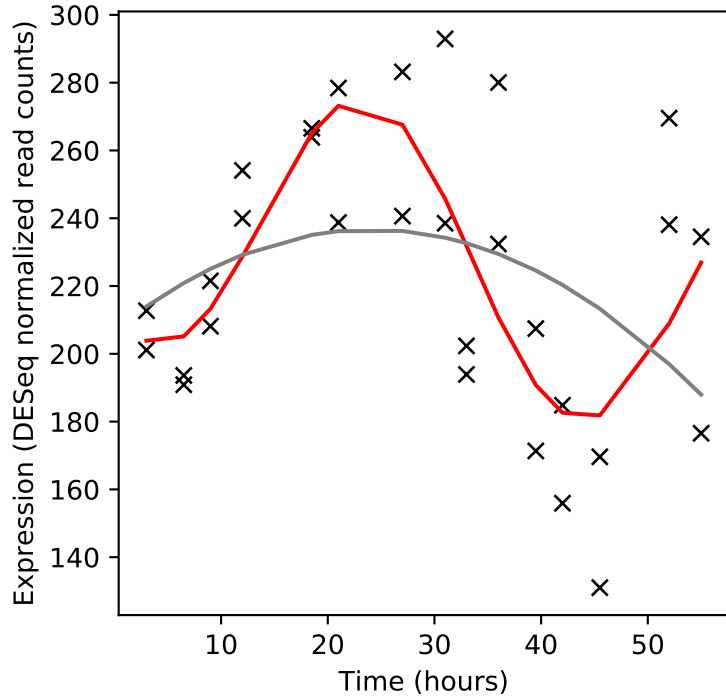
Rv1603/hisA



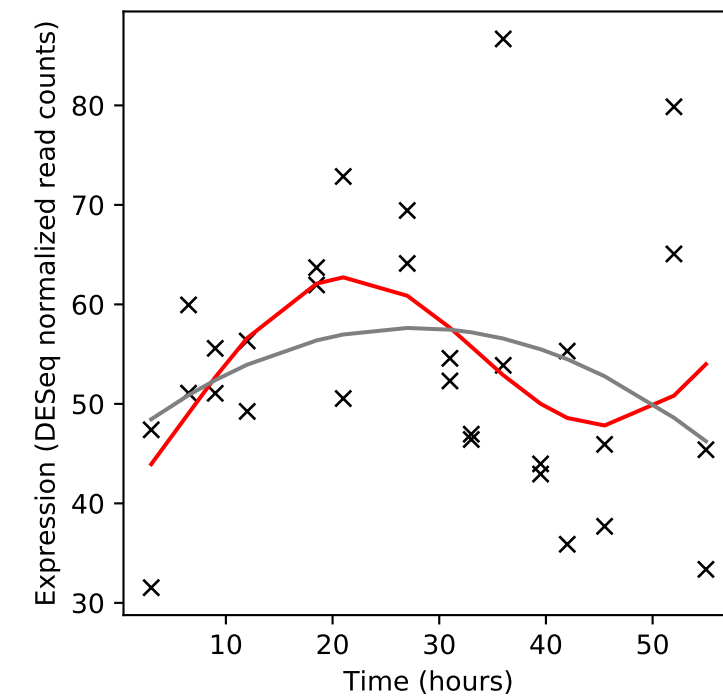
Rv1604/impA



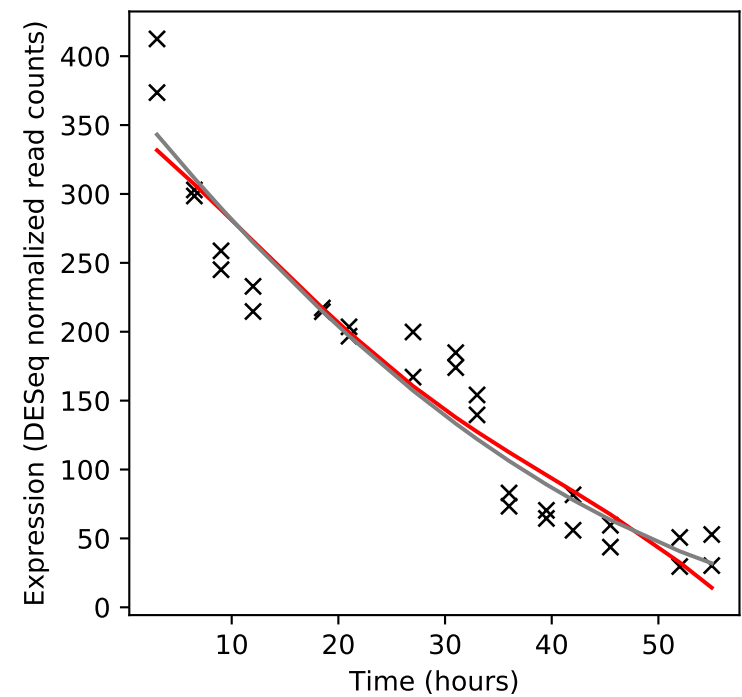
Rv1605/hisF



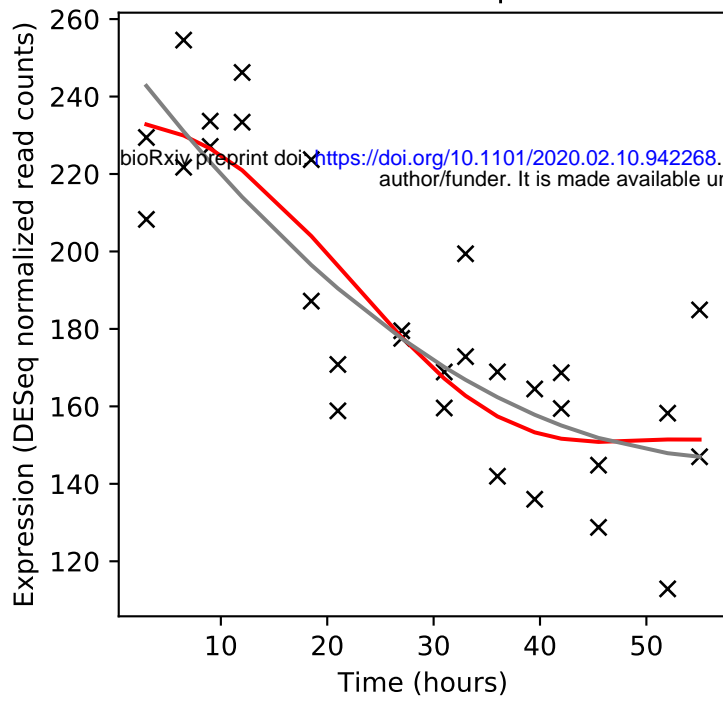
Rv1606/hisI



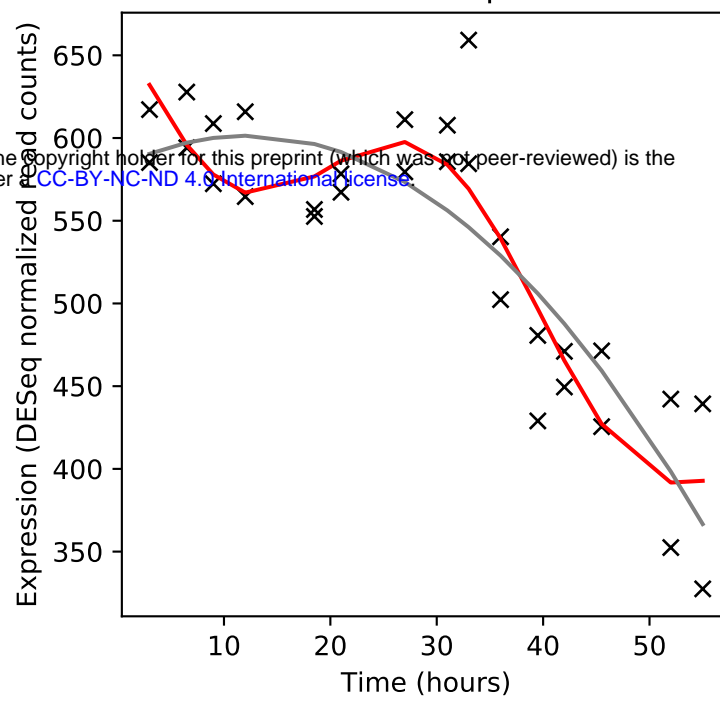
Rv1607/chaA



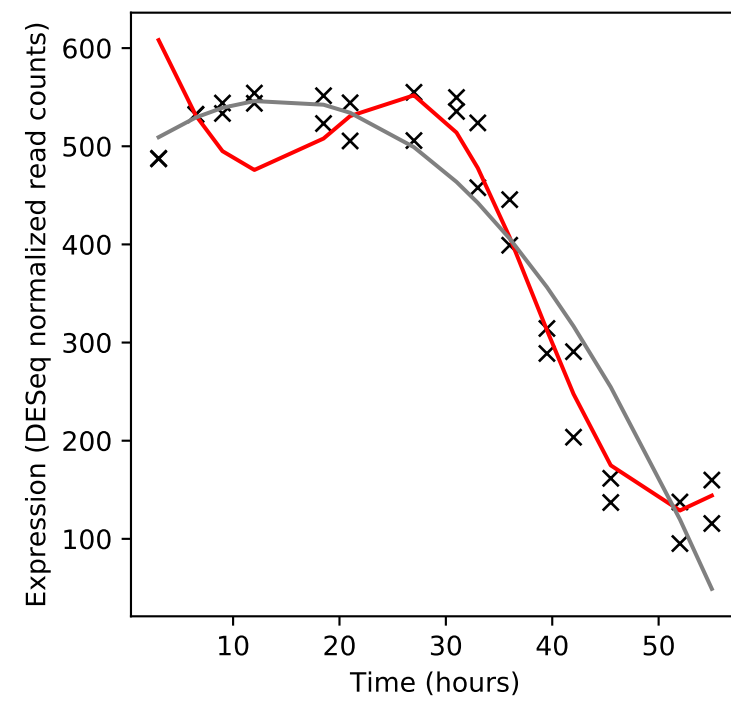
Rv1608c/bcpB



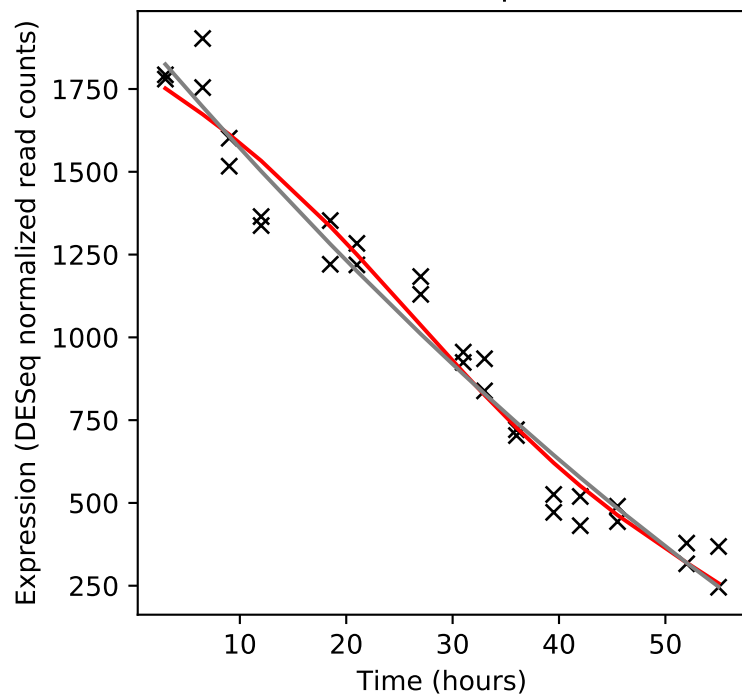
Rv1609/trpE



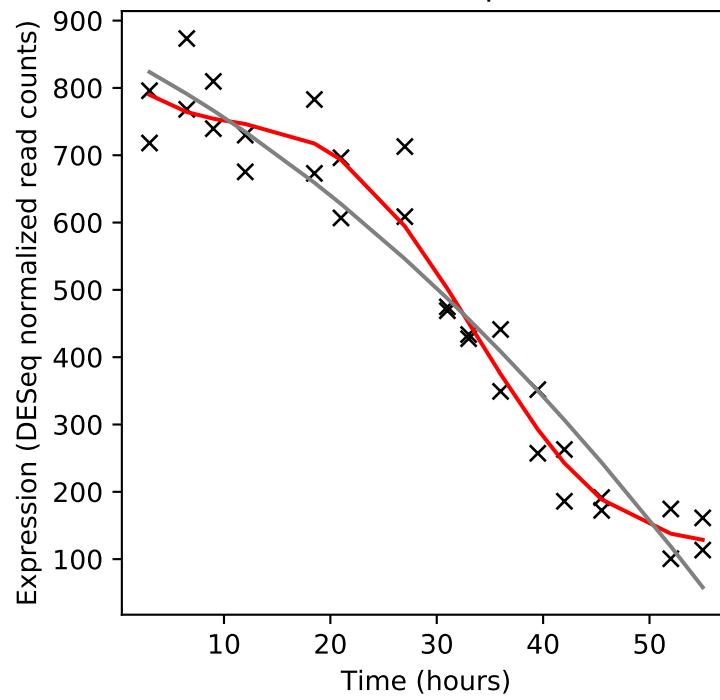
Rv1610/-



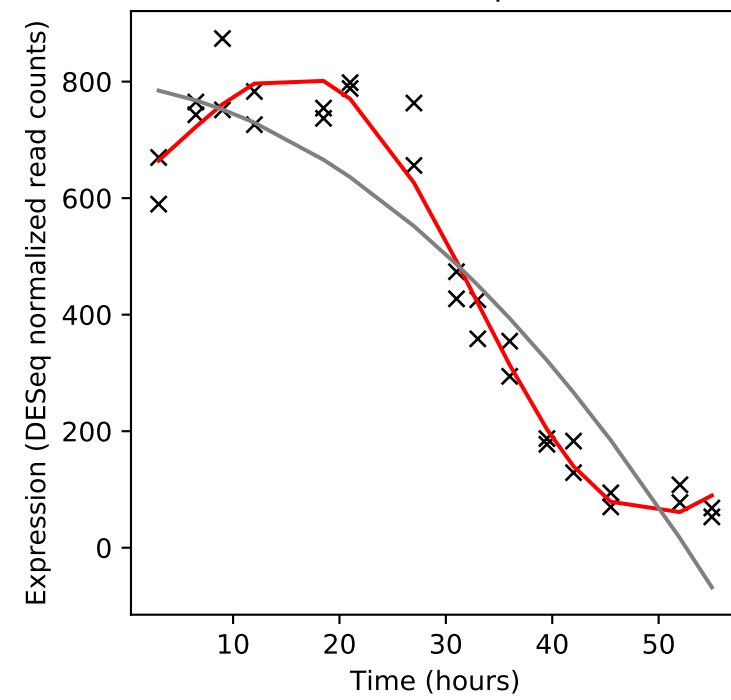
Rv1611/trpC



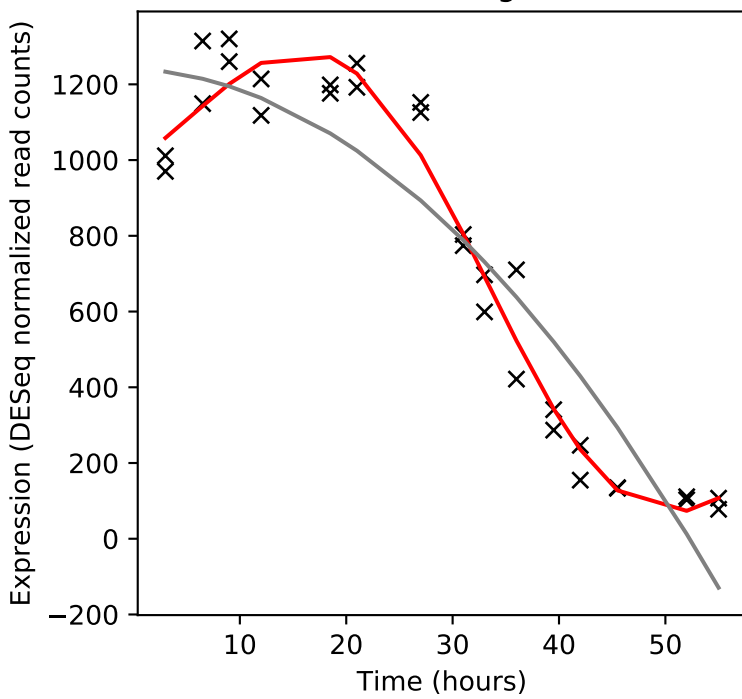
Rv1612/trpB



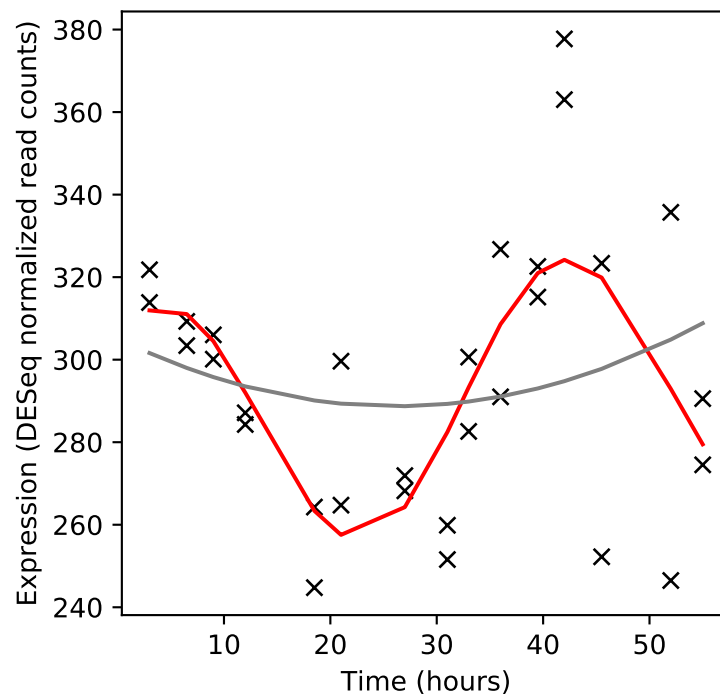
Rv1613/trpA



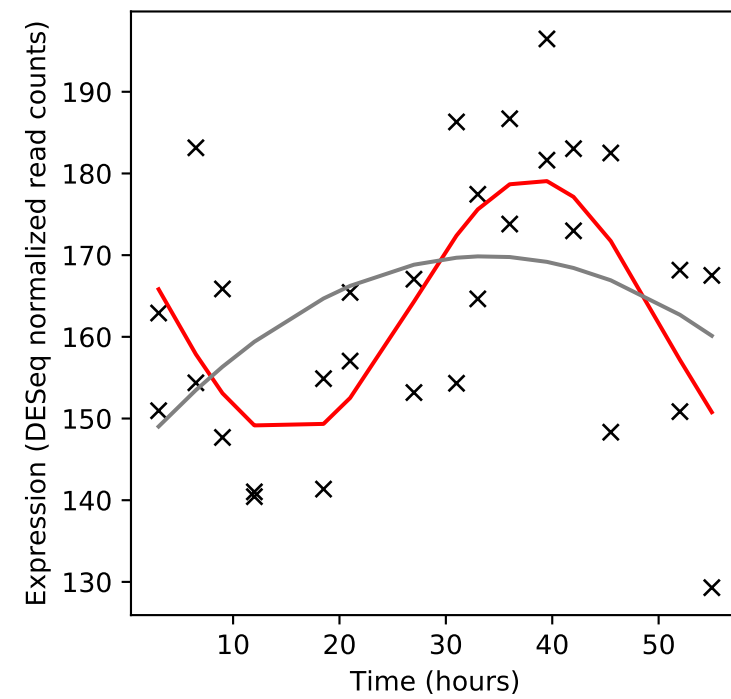
Rv1614/lgt



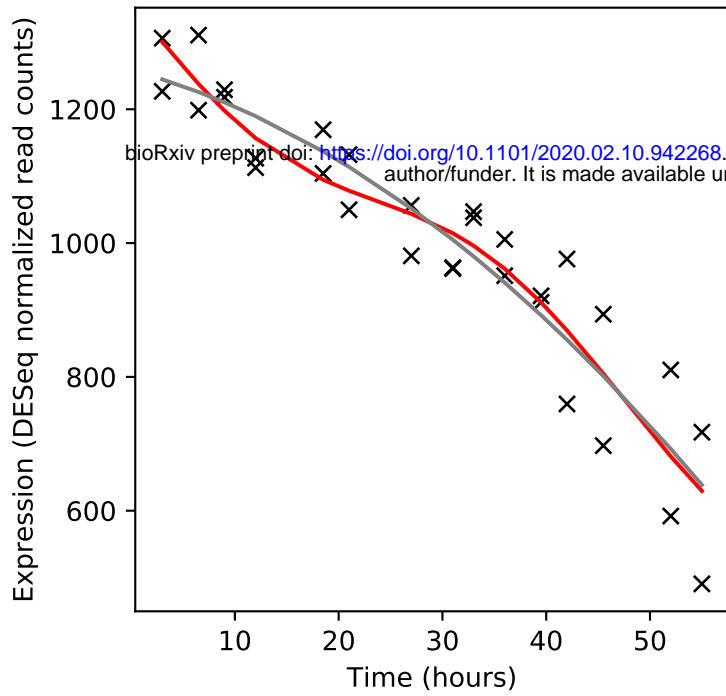
Rv1615/-



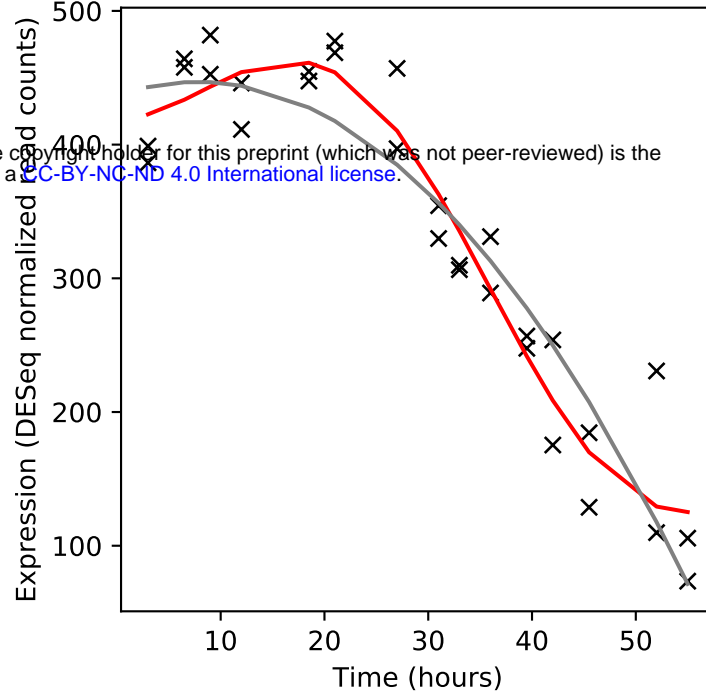
Rv1616/-



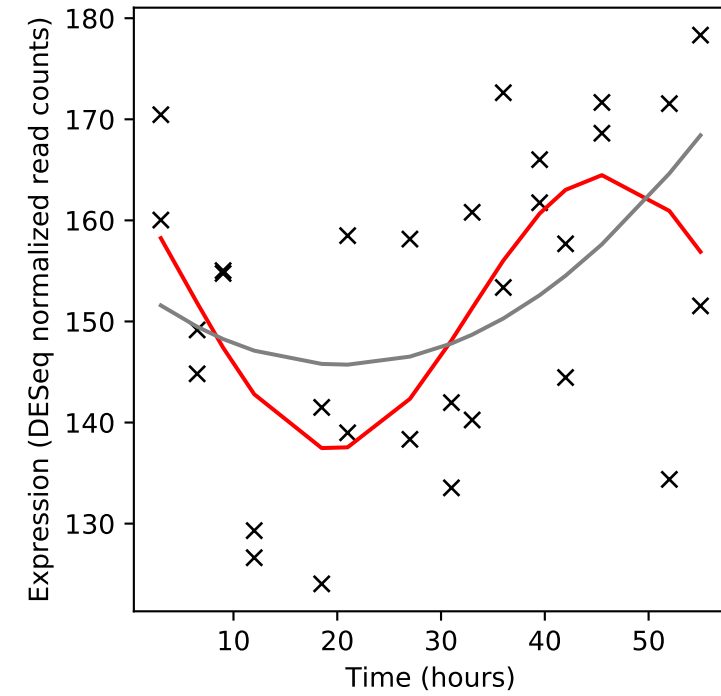
Rv1617/pykA



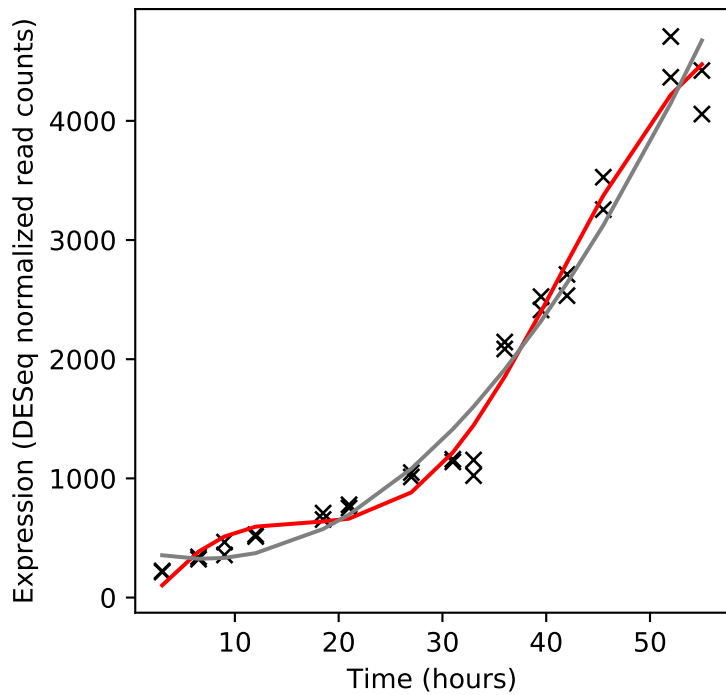
Rv1618/tesB1



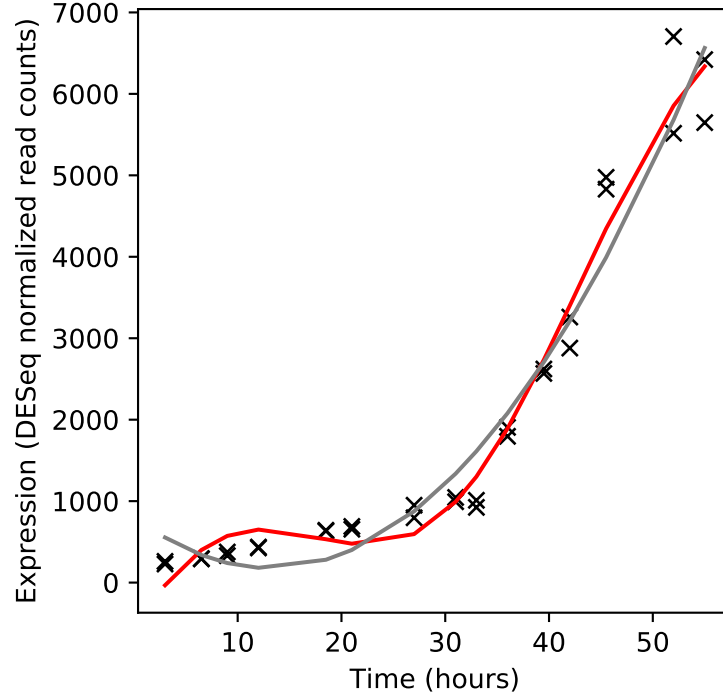
Rv1619/-



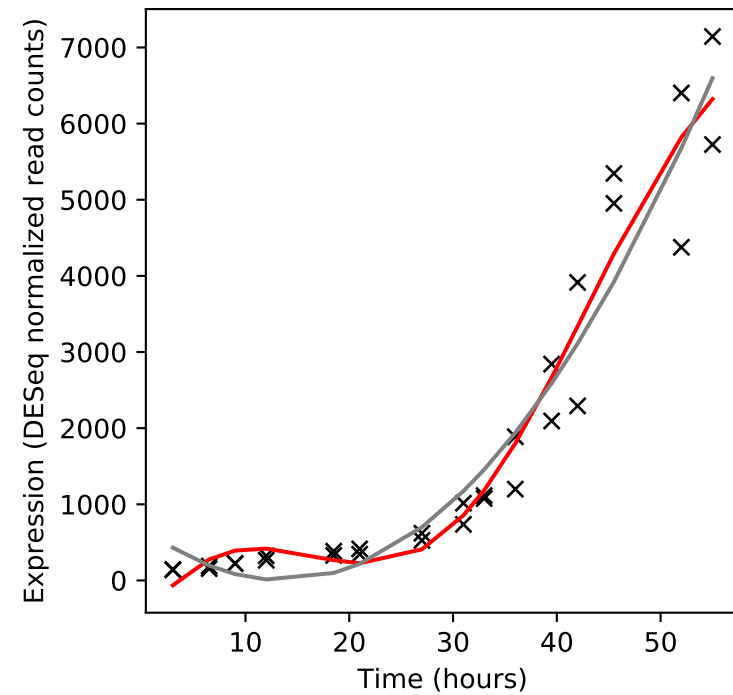
Rv1620c/cydC



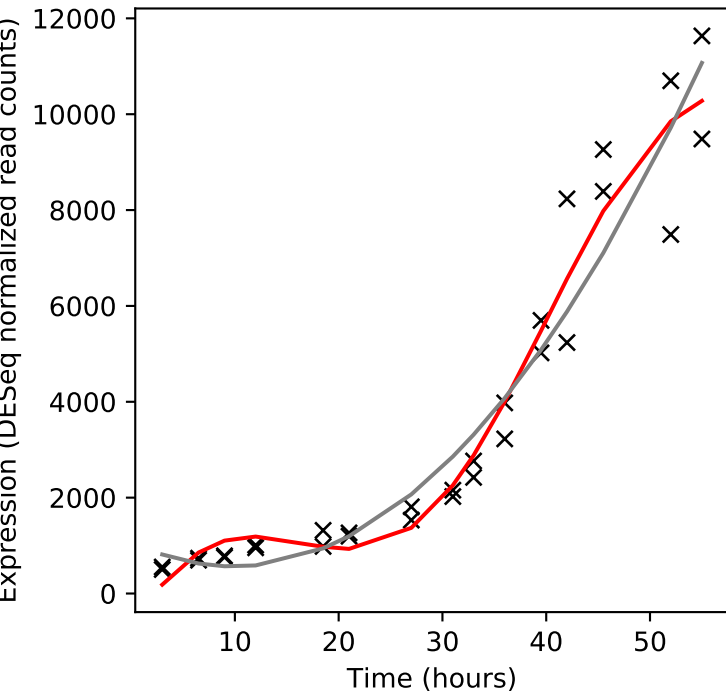
Rv1621c/cydD



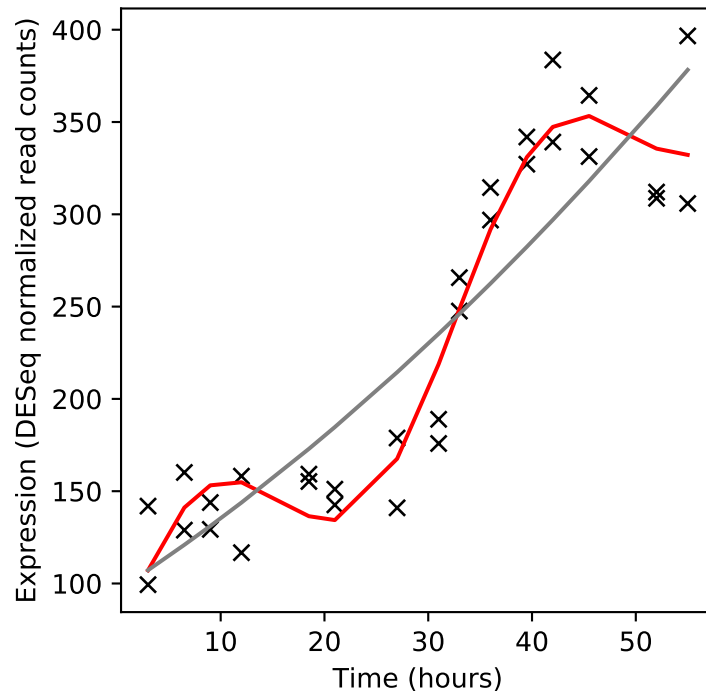
Rv1622c/cydB



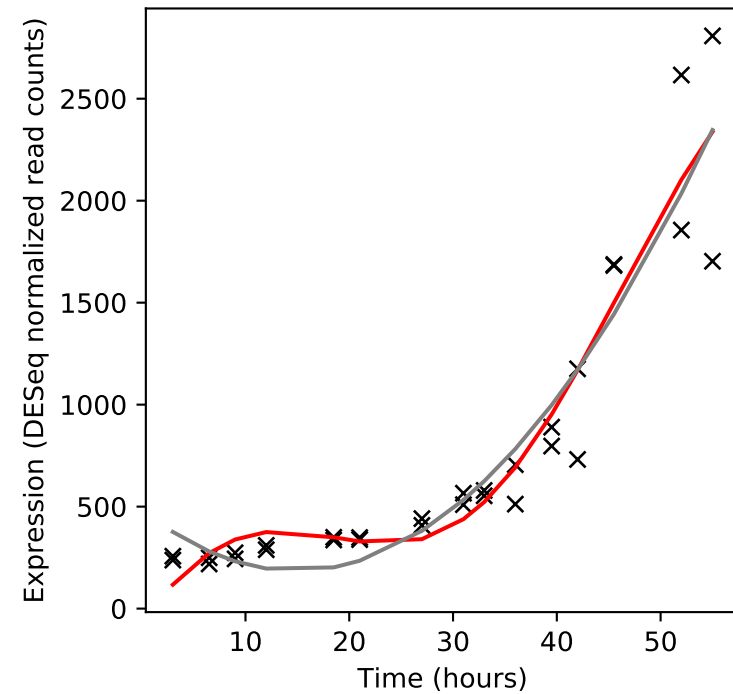
Rv1623c/cydA



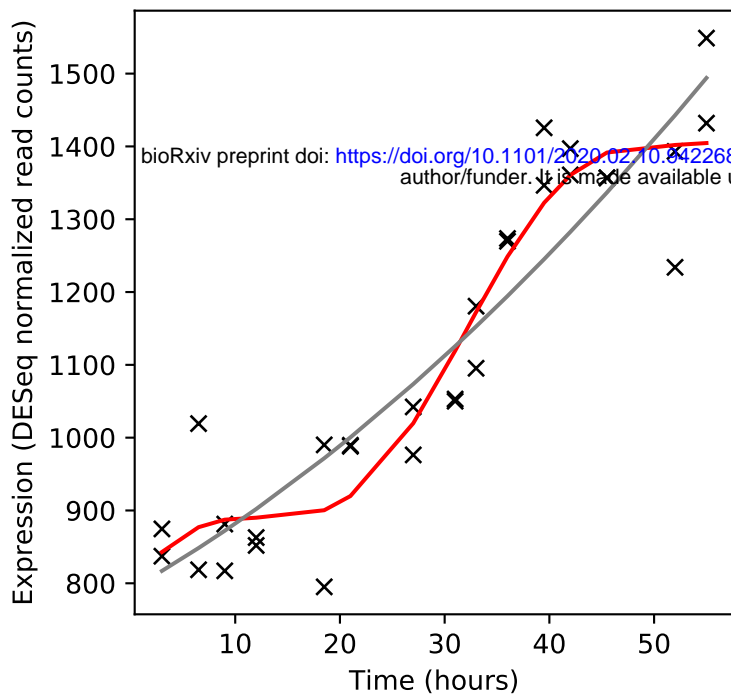
Rv1624c/-



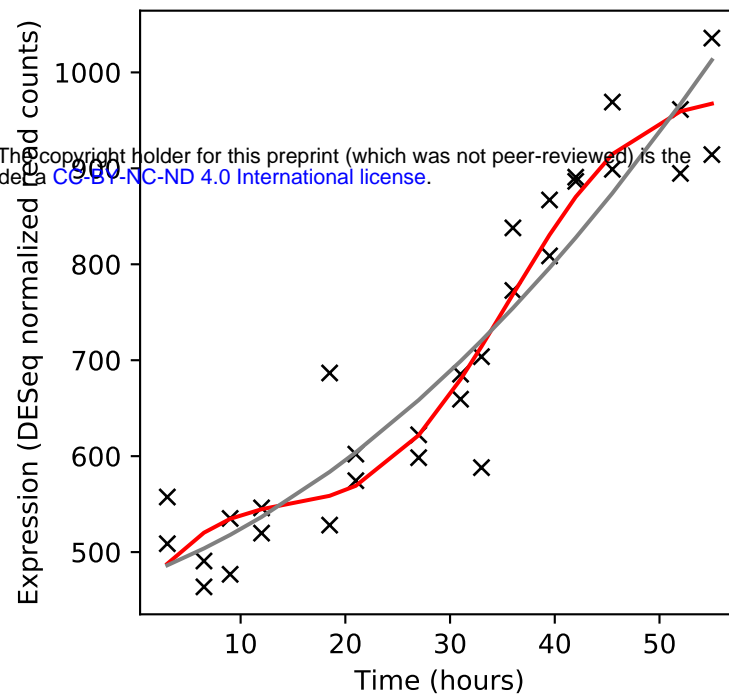
Rv1625c/cya



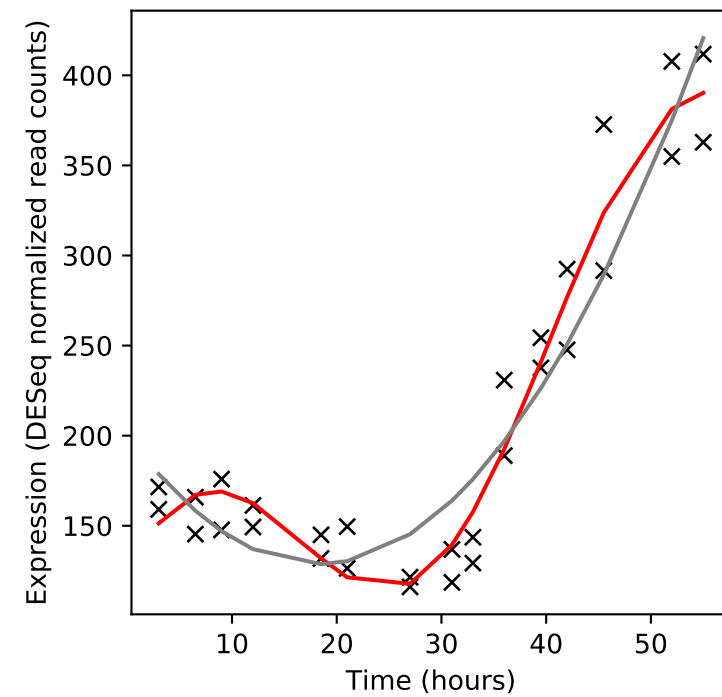
Rv1626/-



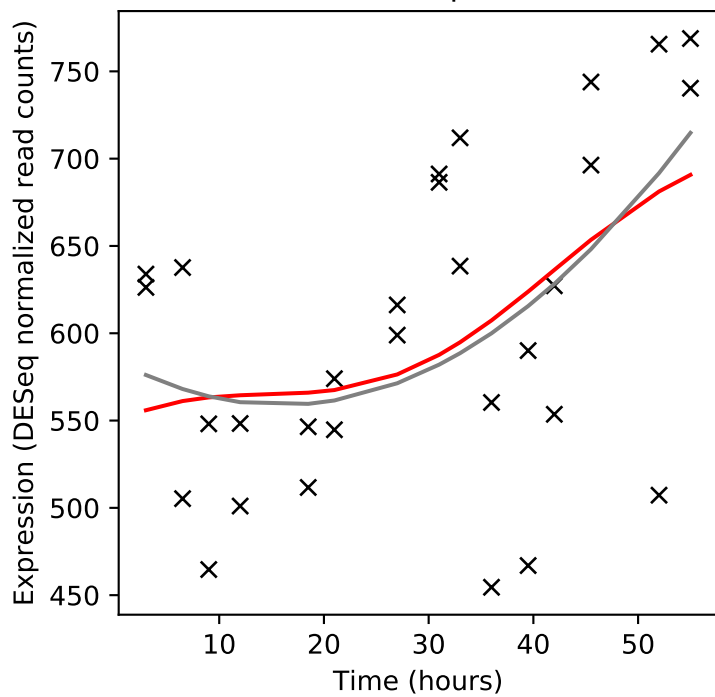
Rv1627c/-



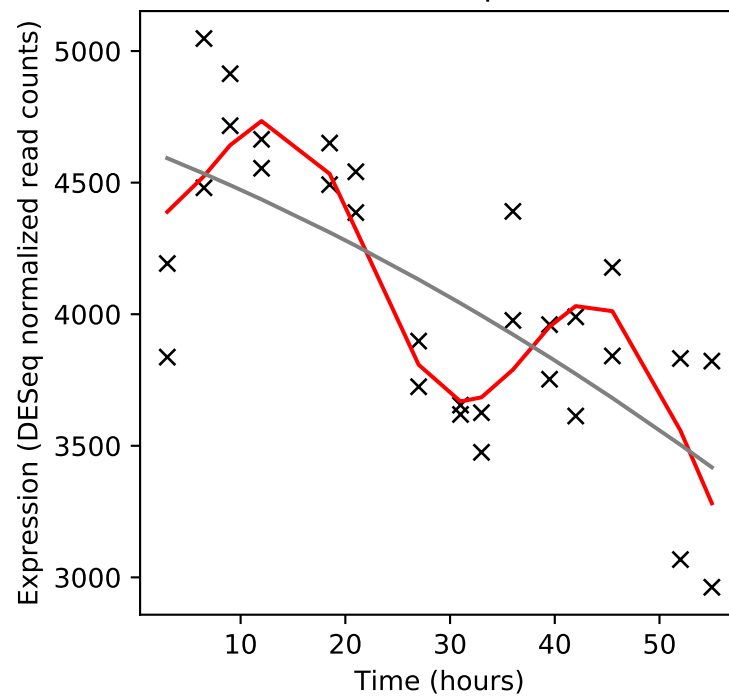
Rv1628c/-



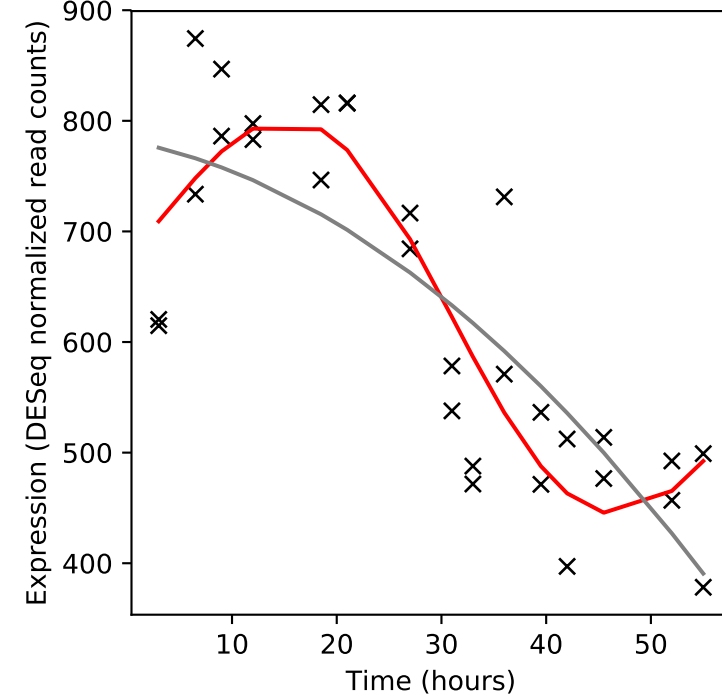
Rv1629/polA



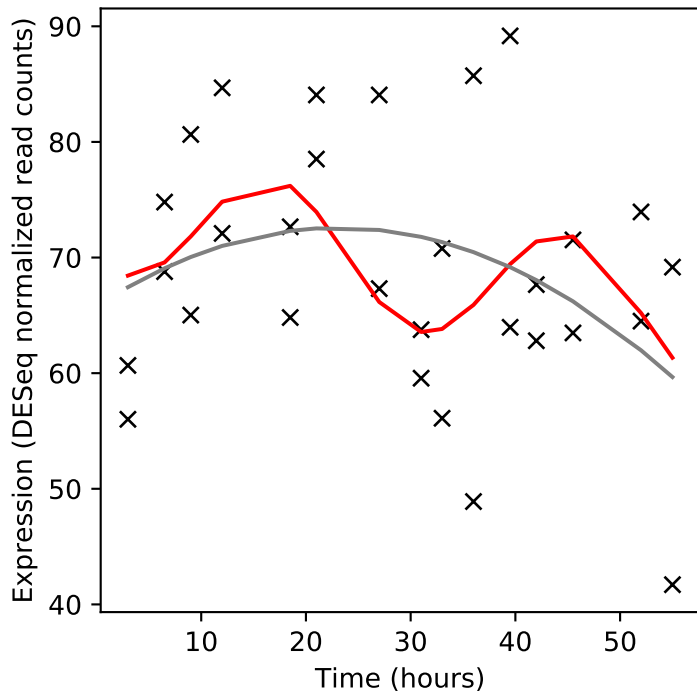
Rv1630/rpsA



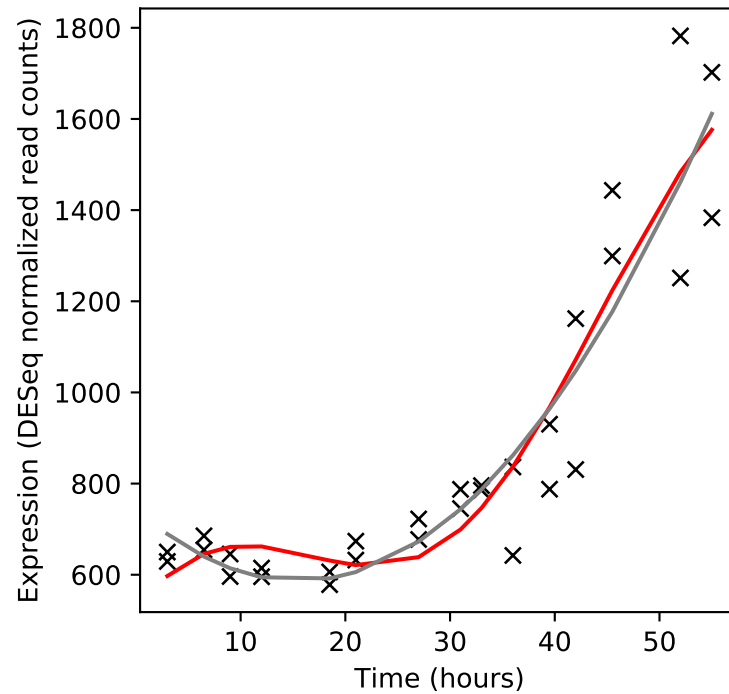
Rv1631/coaE



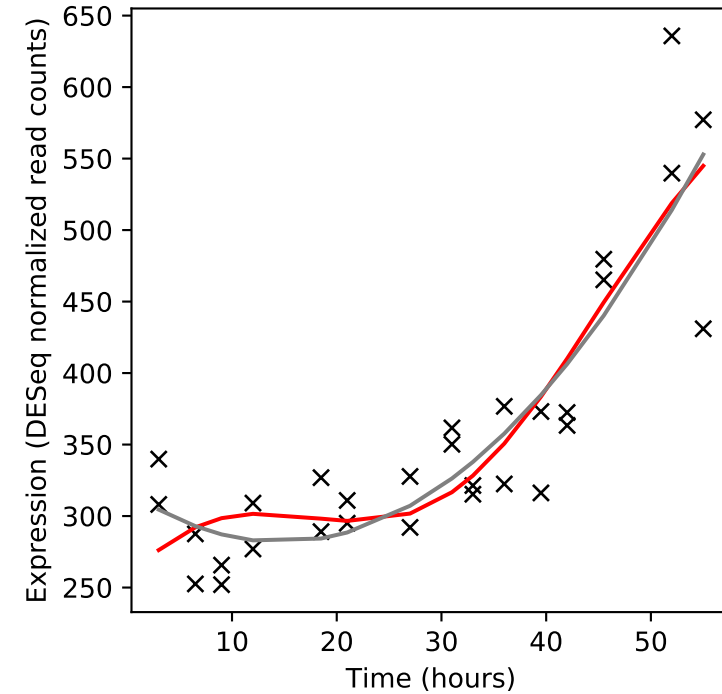
Rv1632c/-



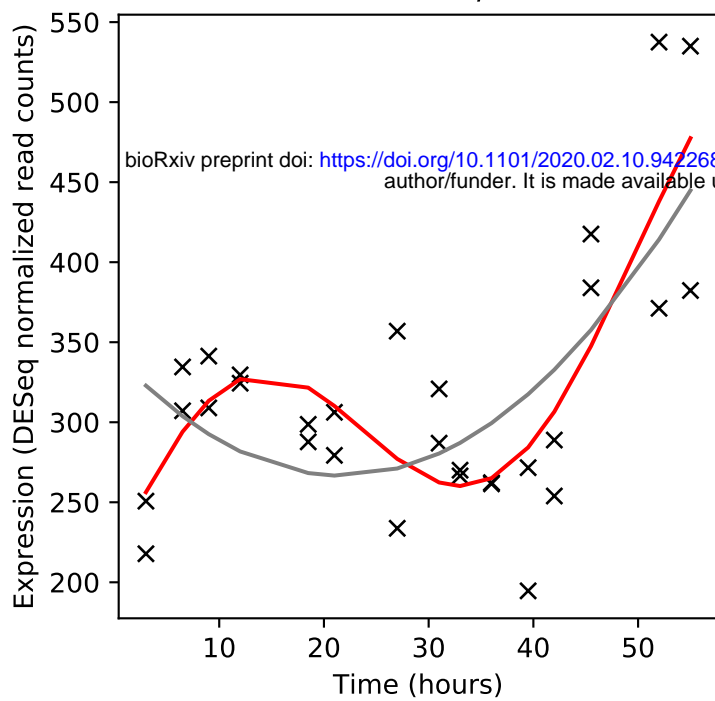
Rv1633/uvrB



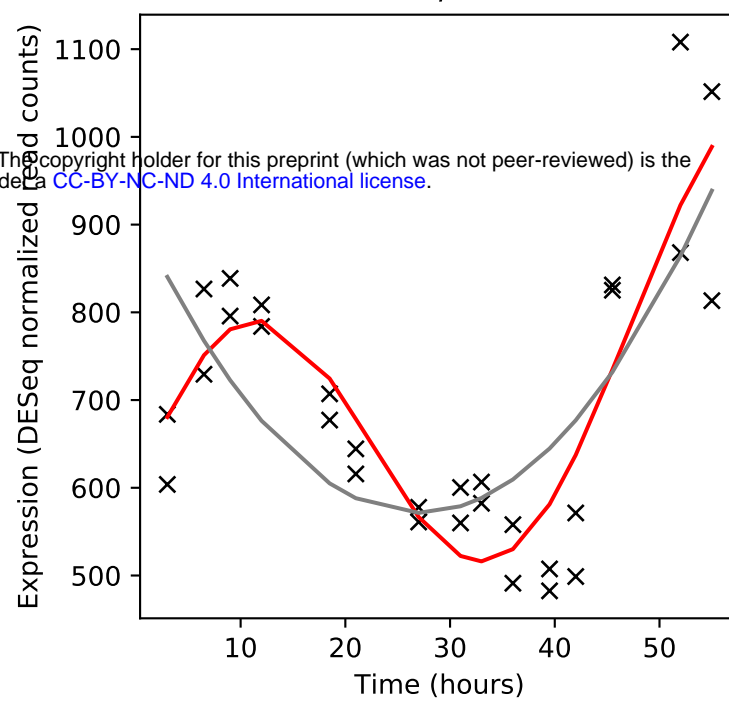
Rv1634/-



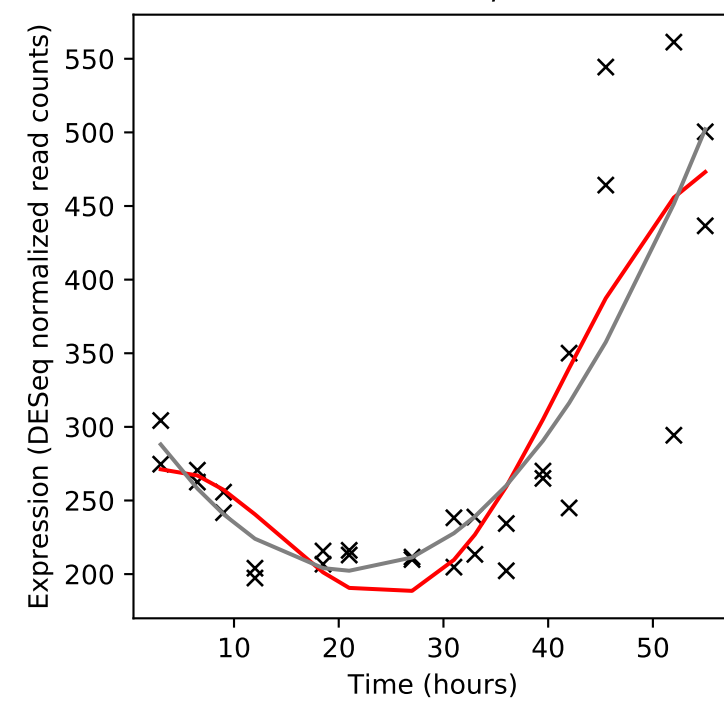
Rv1635c/-



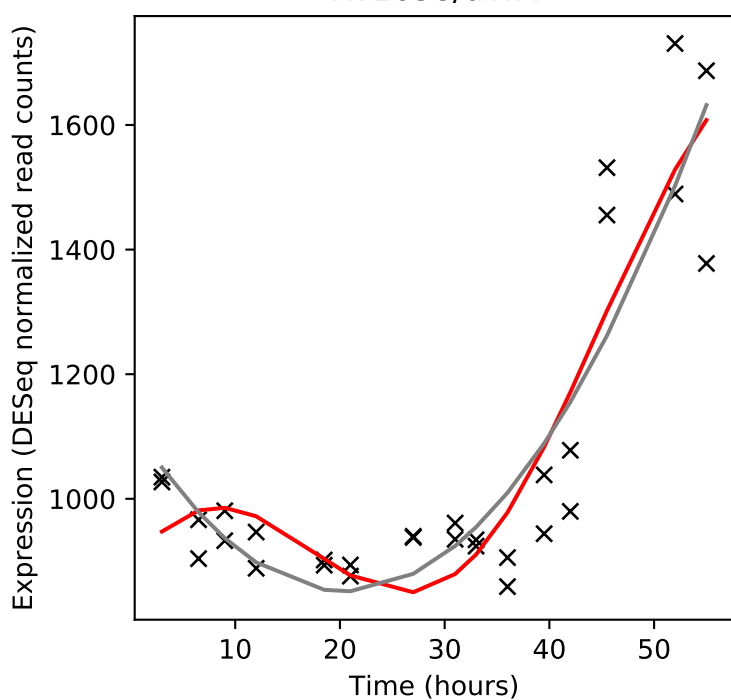
Rv1636/TB15.3



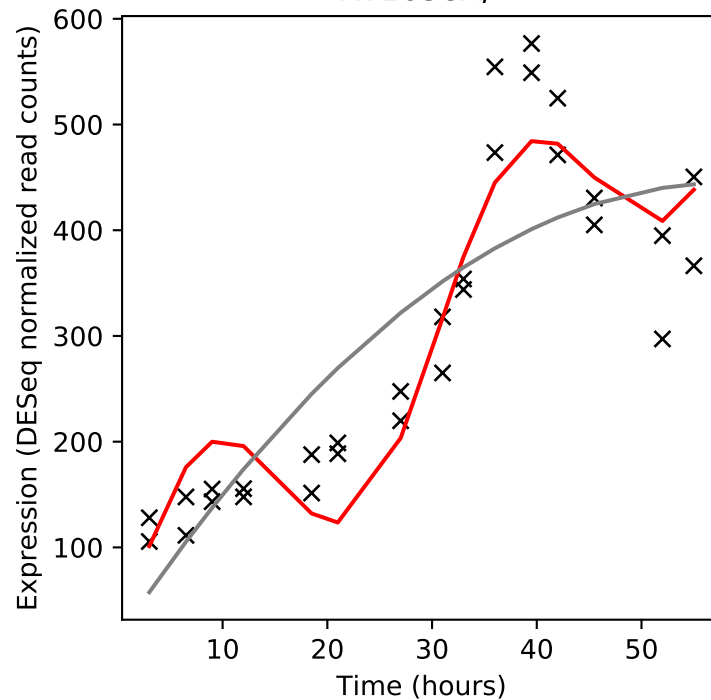
Rv1637c/-



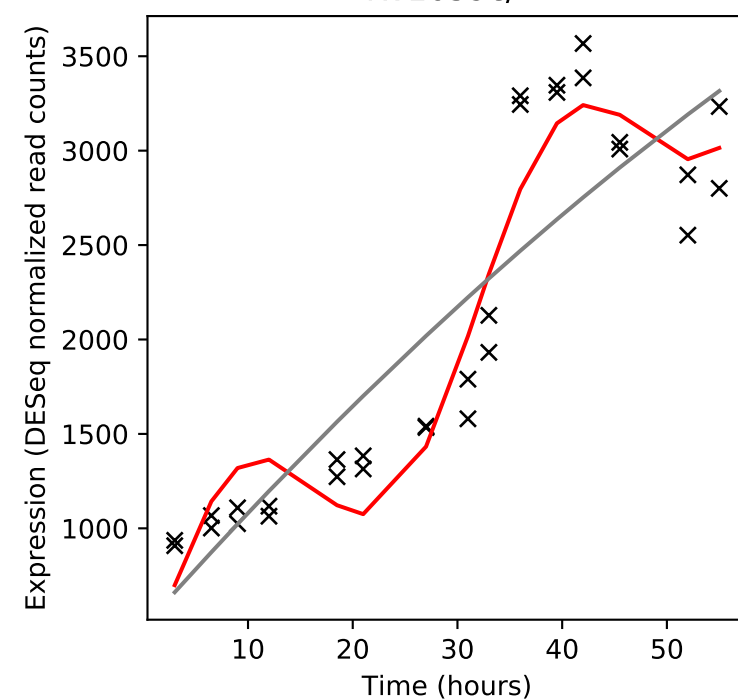
Rv1638/uvrA



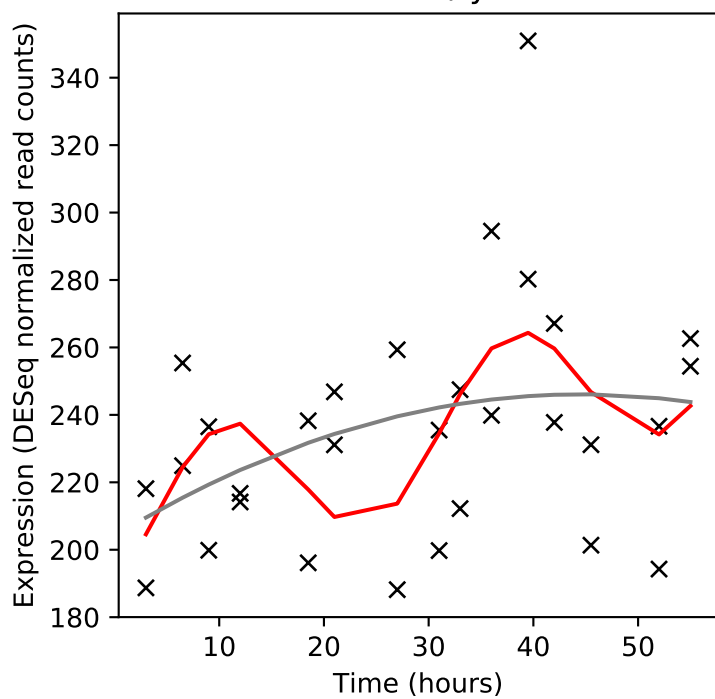
Rv1638A/-



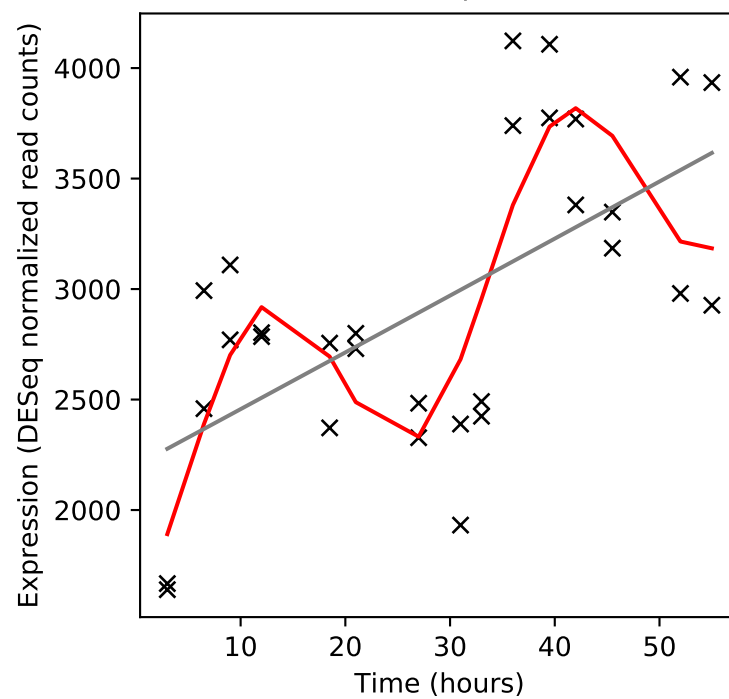
Rv1639c/-



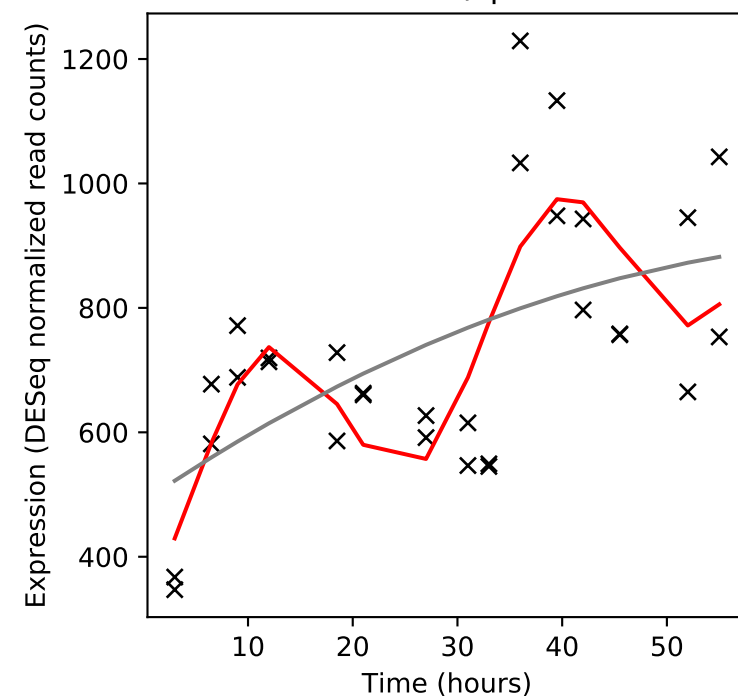
Rv1640c/lysX



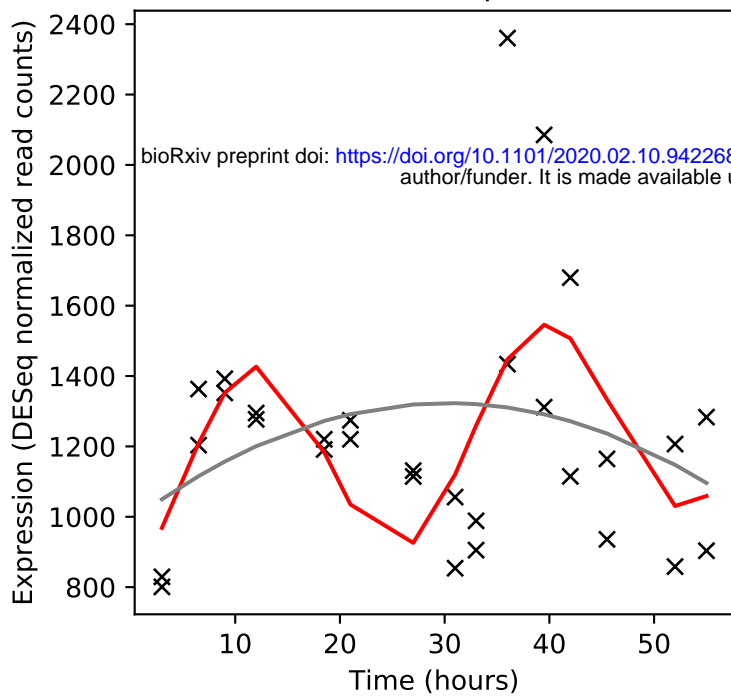
Rv1641/infC



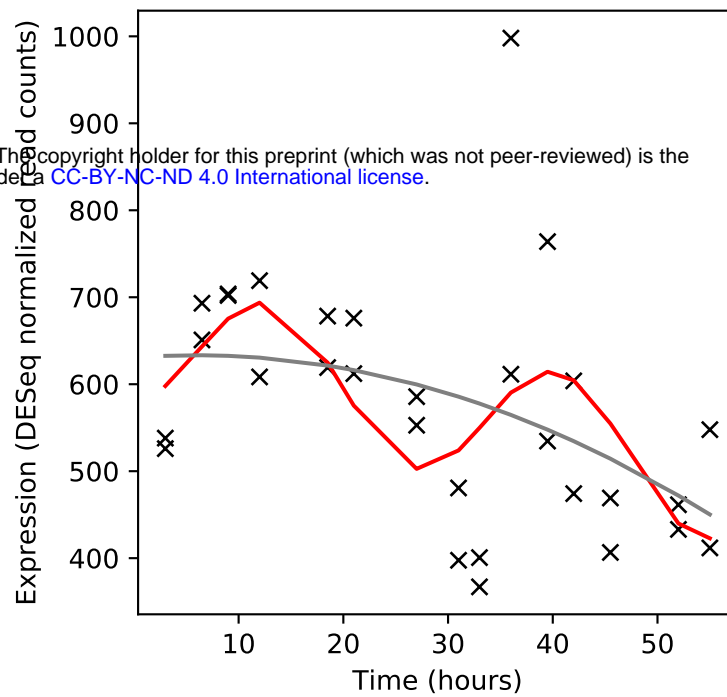
Rv1642/rpmI



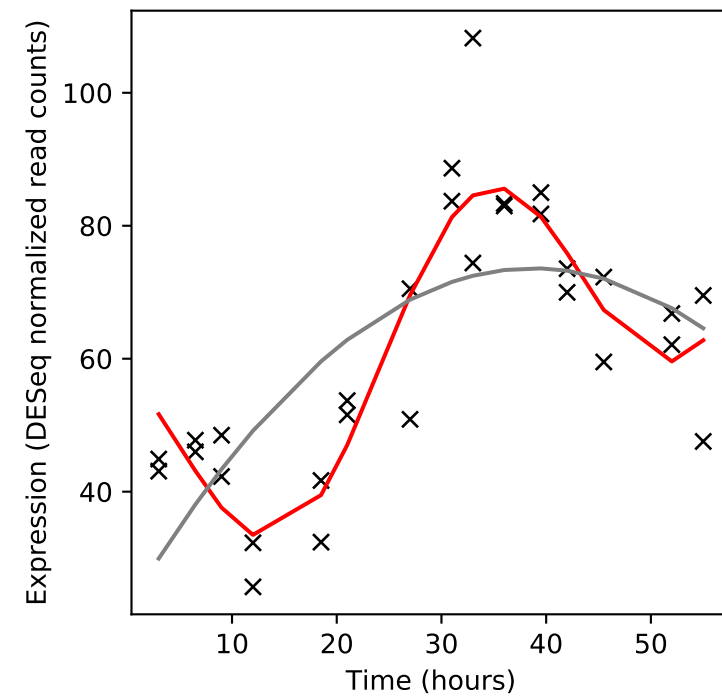
Rv1643/rpIT



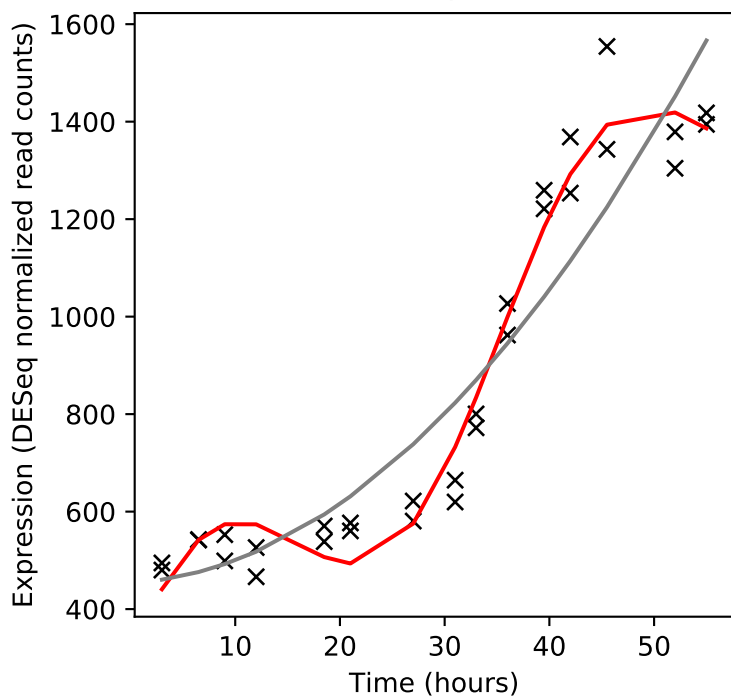
Rv1644/tsnR



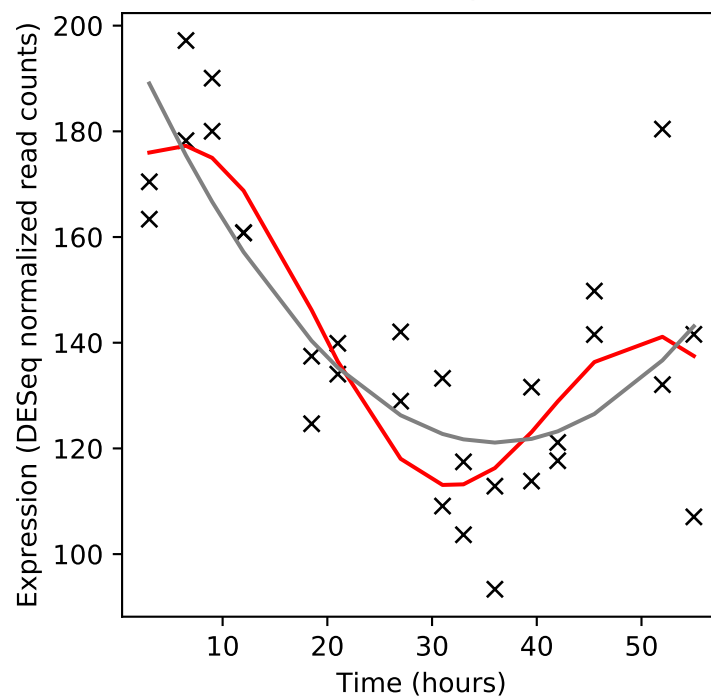
Rv1645c/-



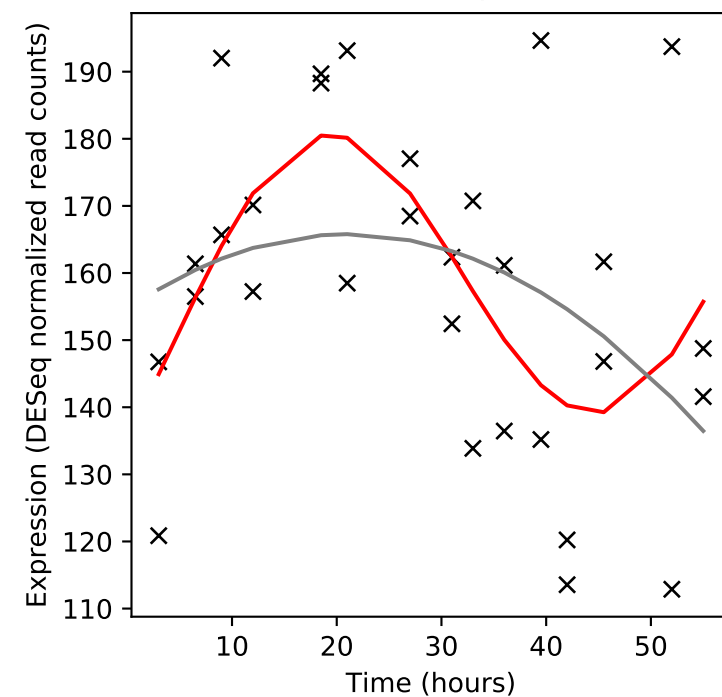
Rv1646/PE17



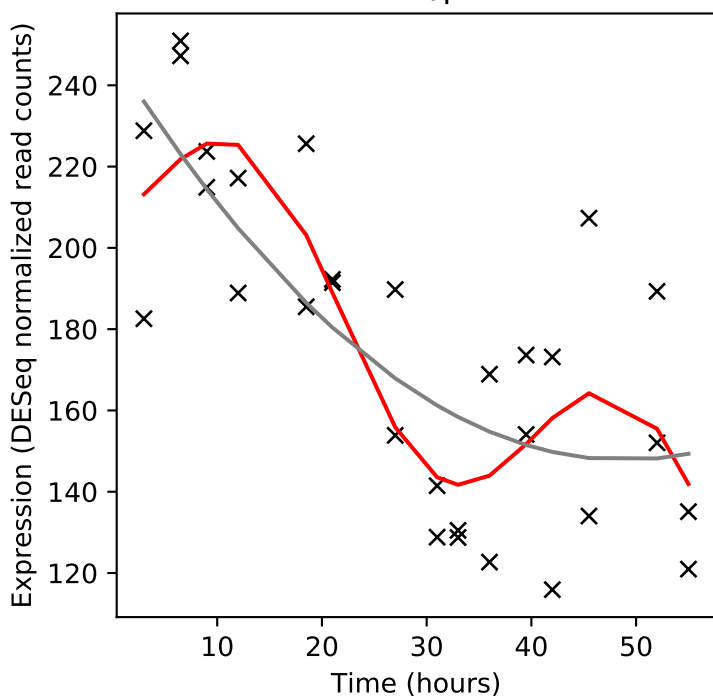
Rv1647/-



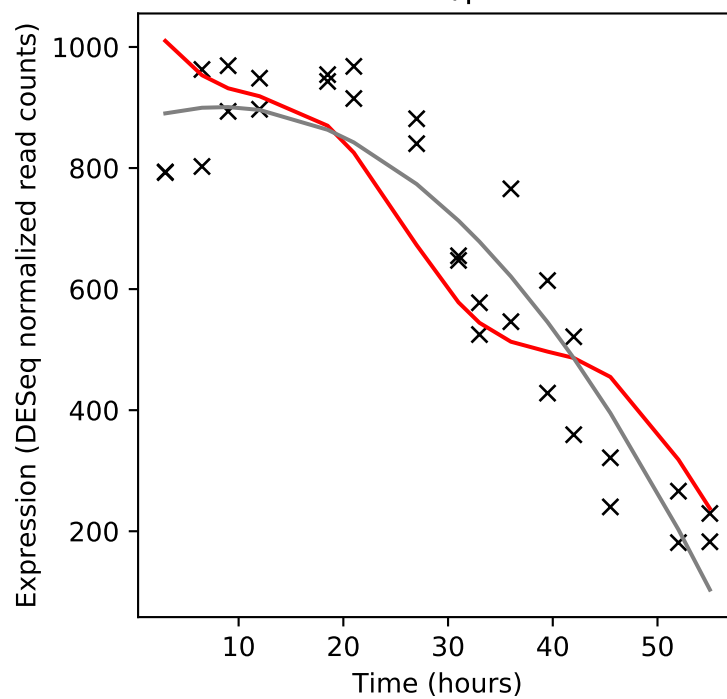
Rv1648/-



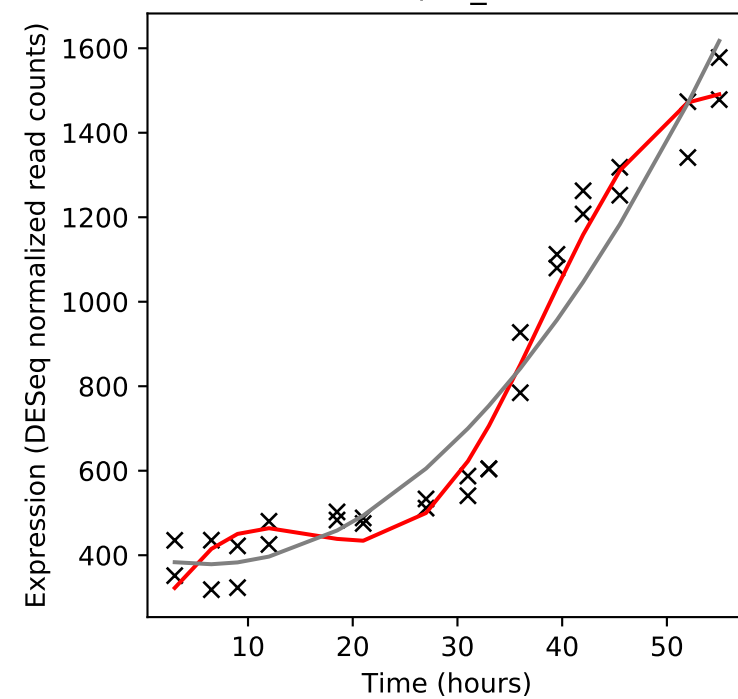
Rv1649/pheS



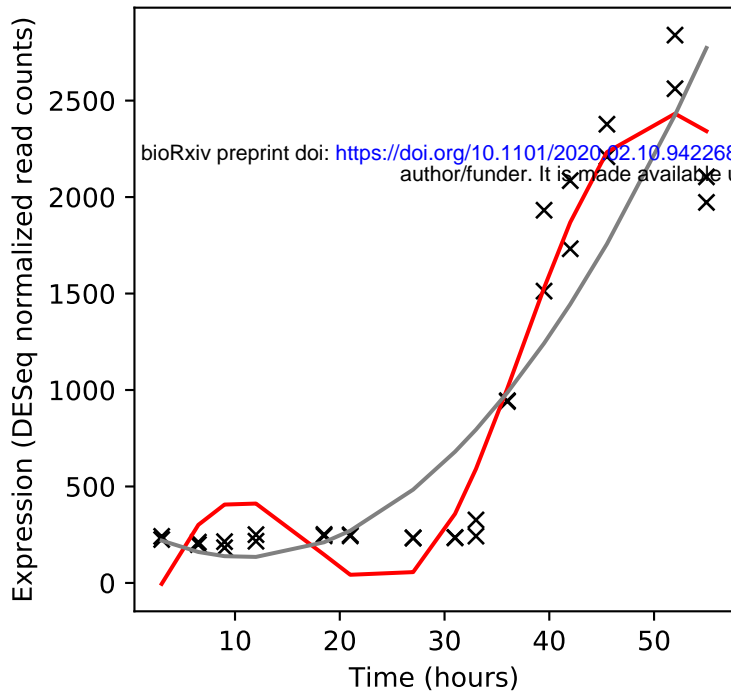
Rv1650/pheT



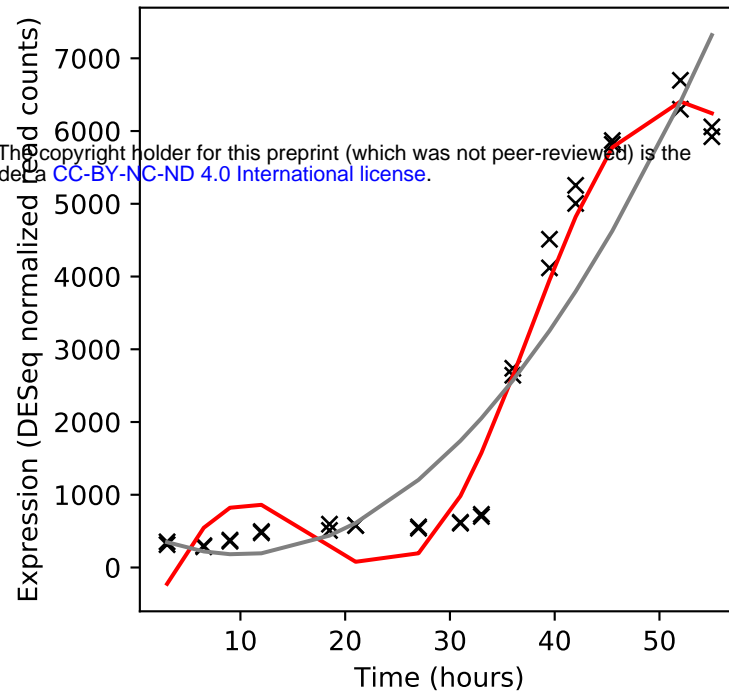
Rv1651c/PE_PGRS30



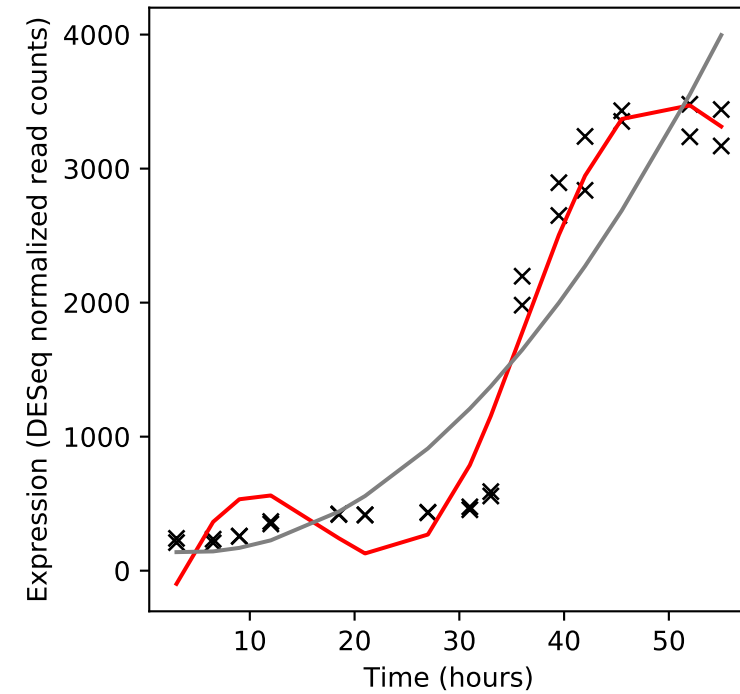
Rv1652/argC



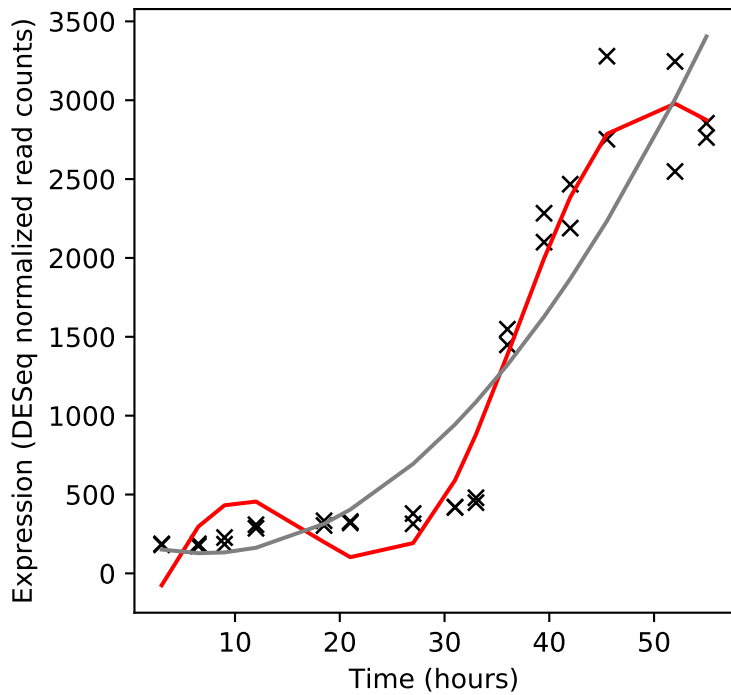
Rv1653/argJ



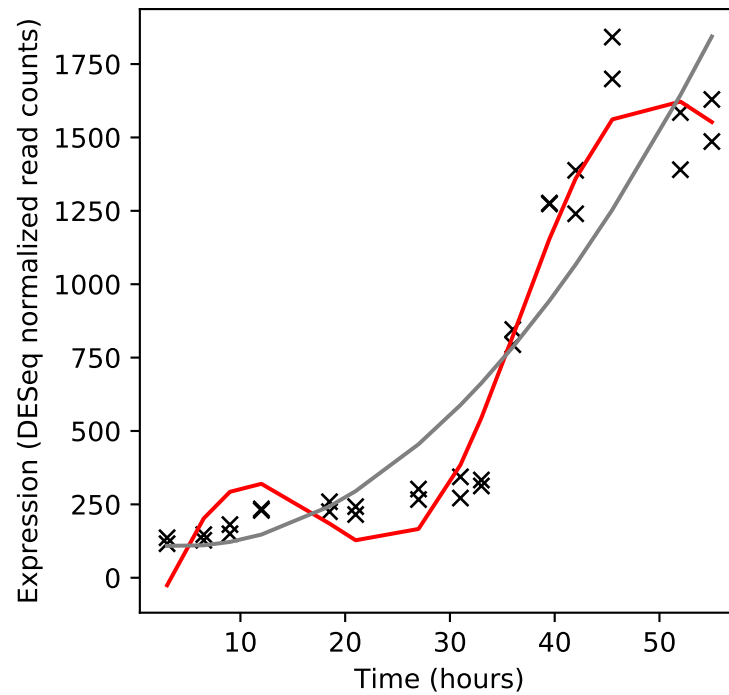
Rv1654/argB



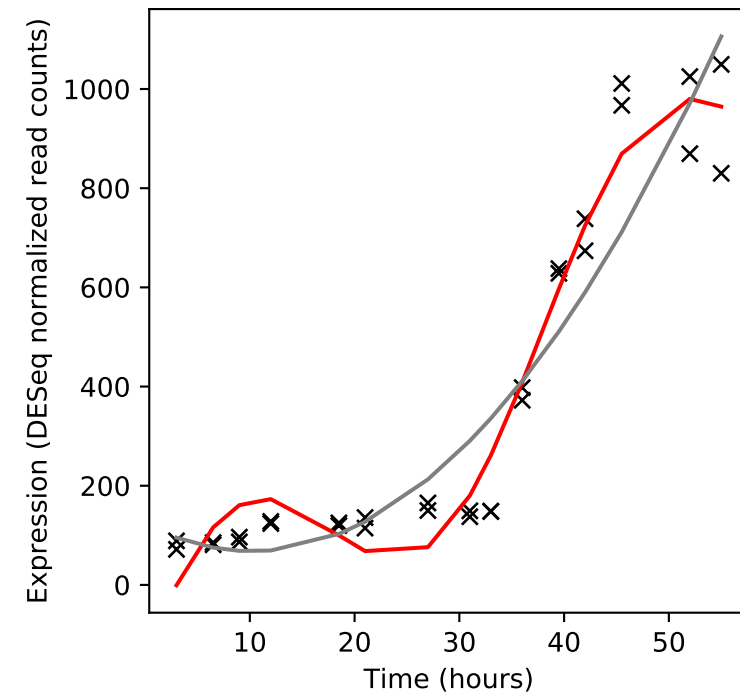
Rv1655/argD



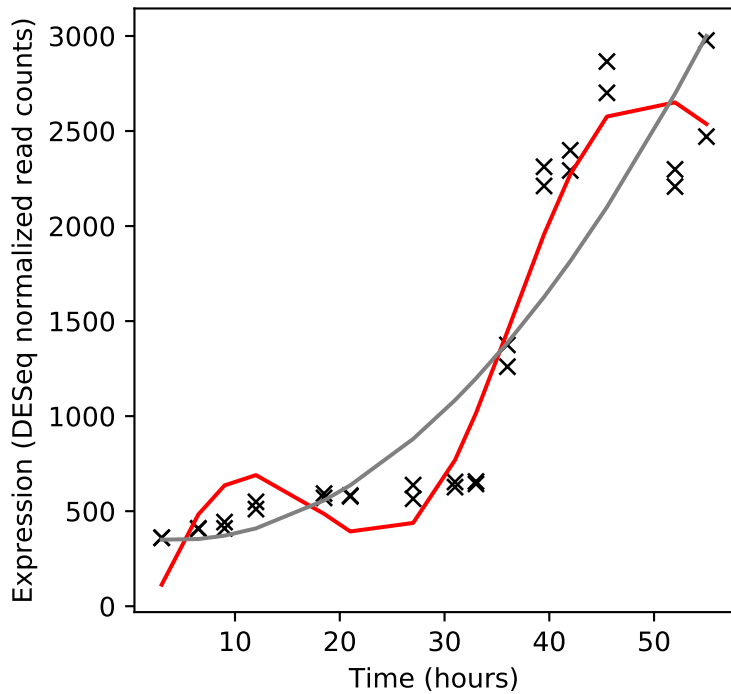
Rv1656/argF



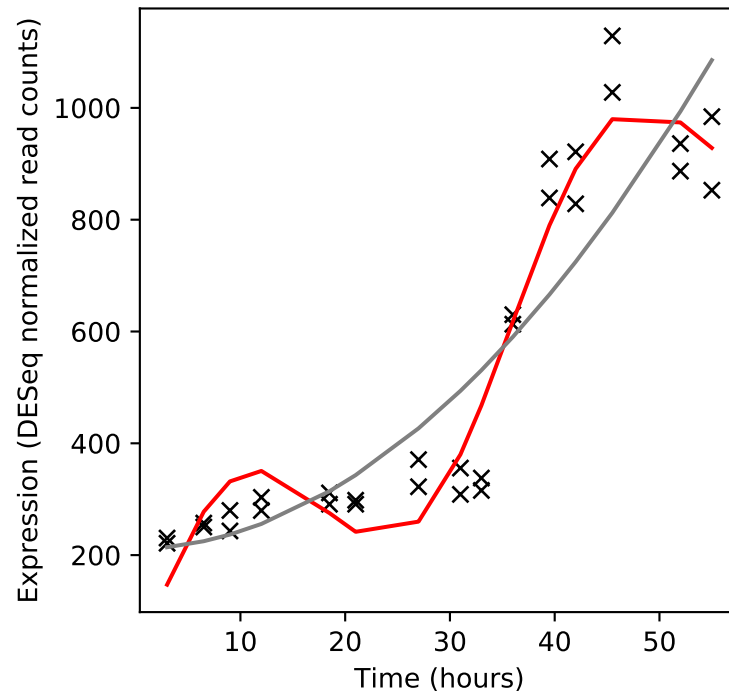
Rv1657/argR



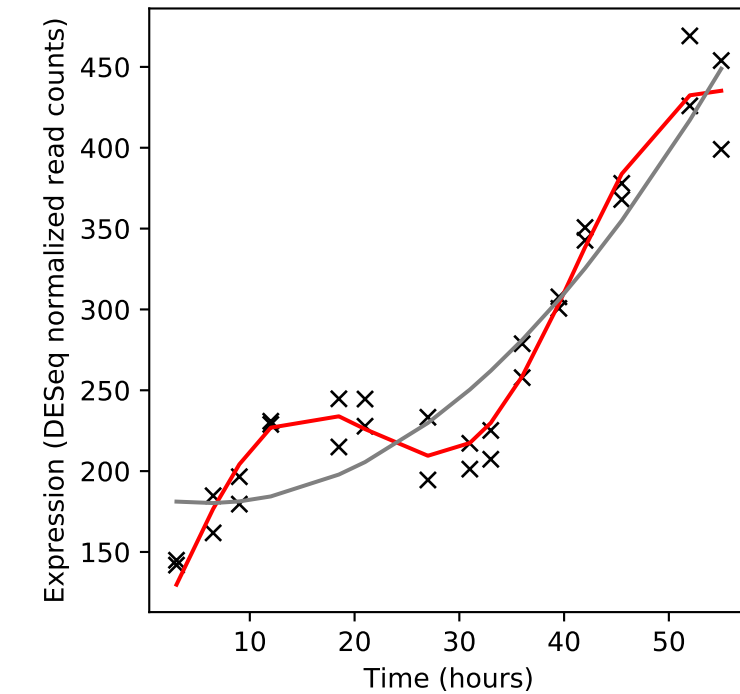
Rv1658/argG



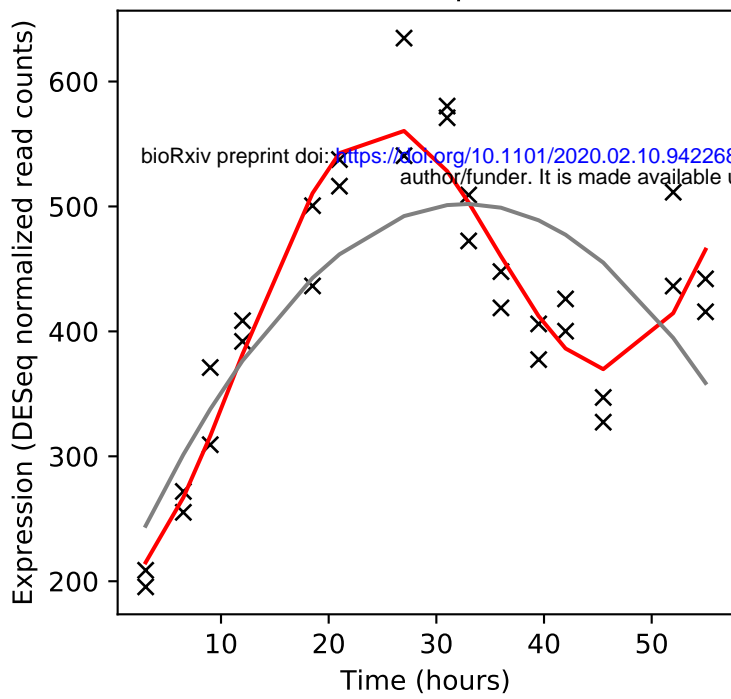
Rv1659/argH



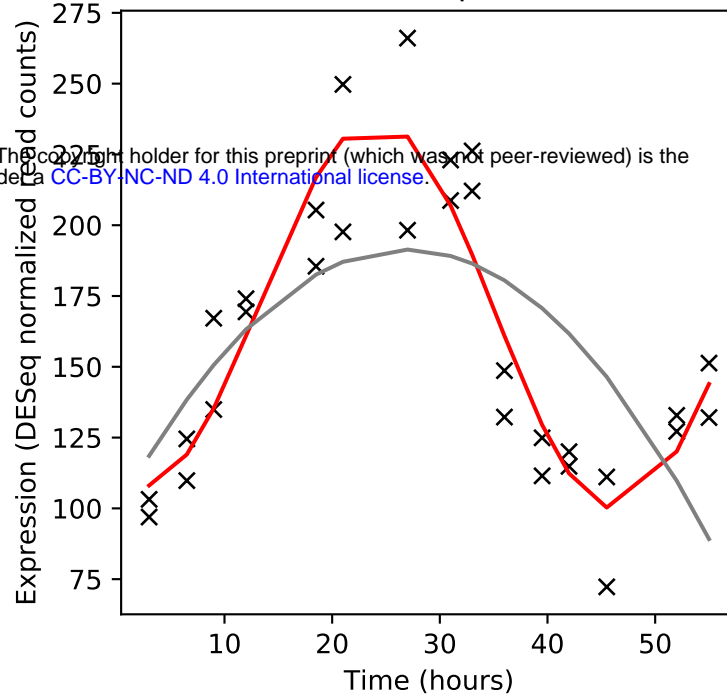
Rv1660/pks10



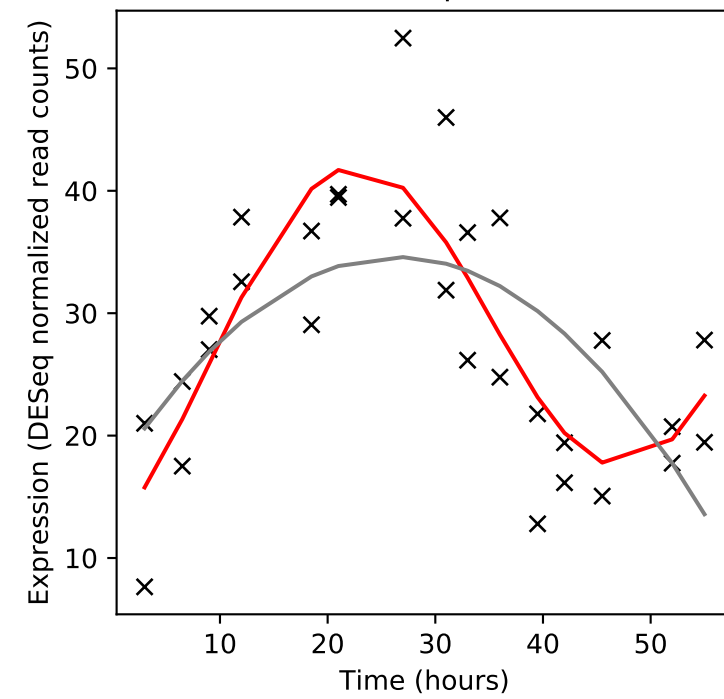
Rv1661/pks7



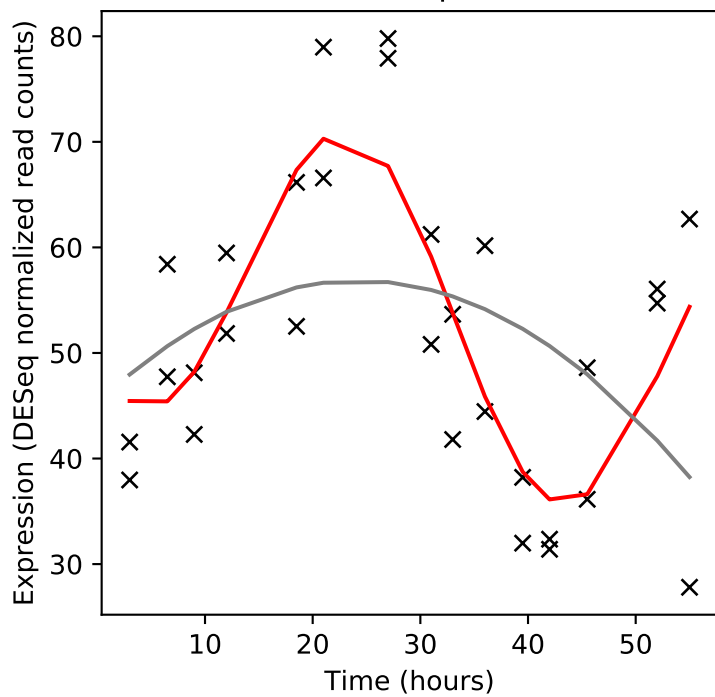
Rv1662/pks8



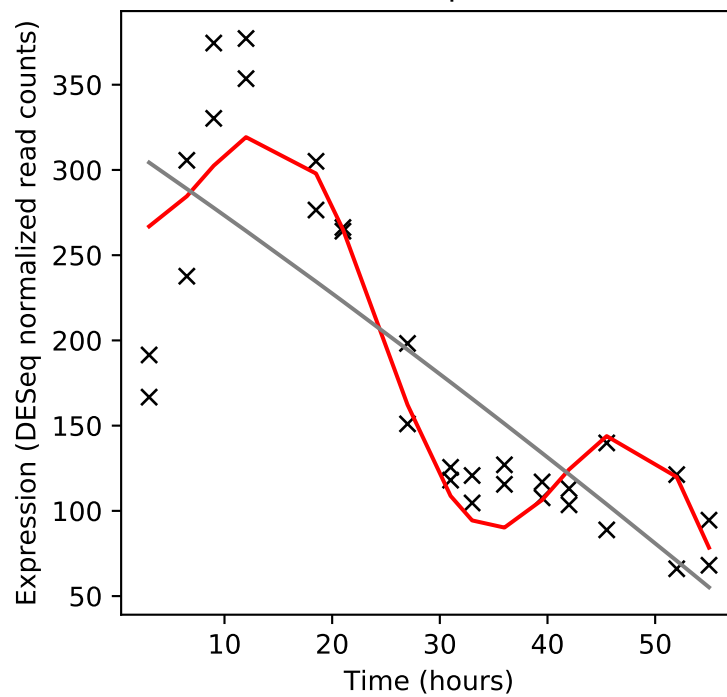
Rv1663/pks17



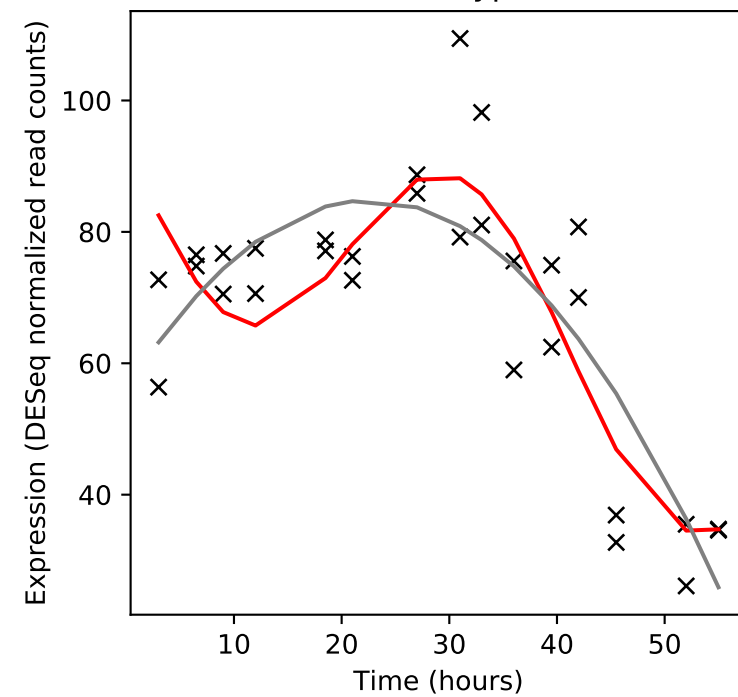
Rv1664/pks9



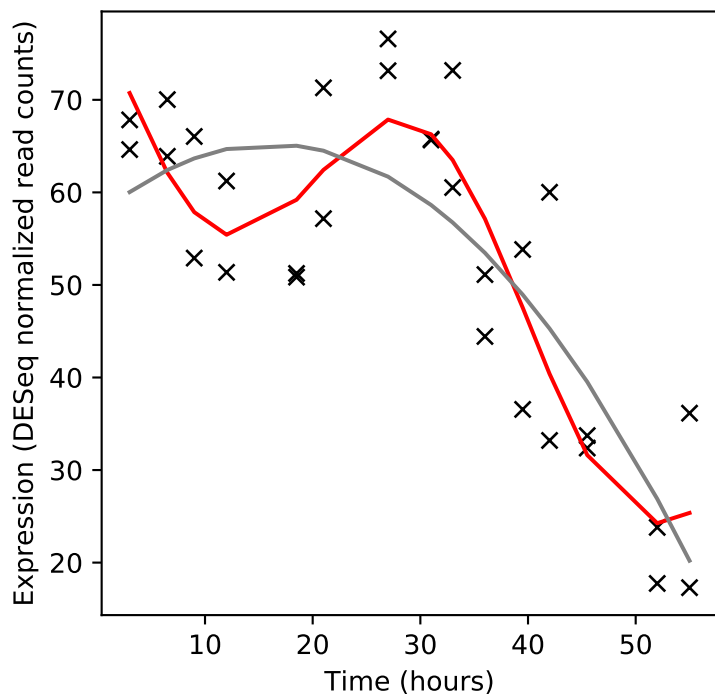
Rv1665/pks11



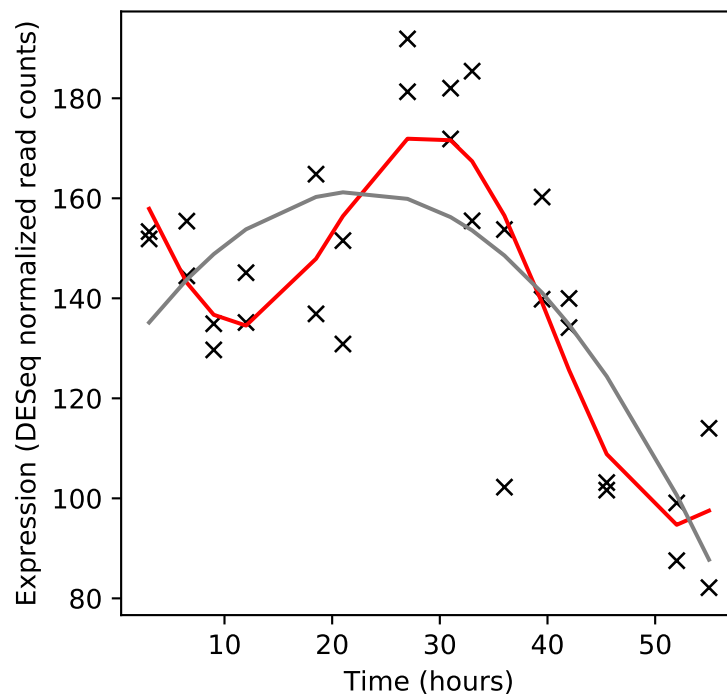
Rv1666c/cyp139



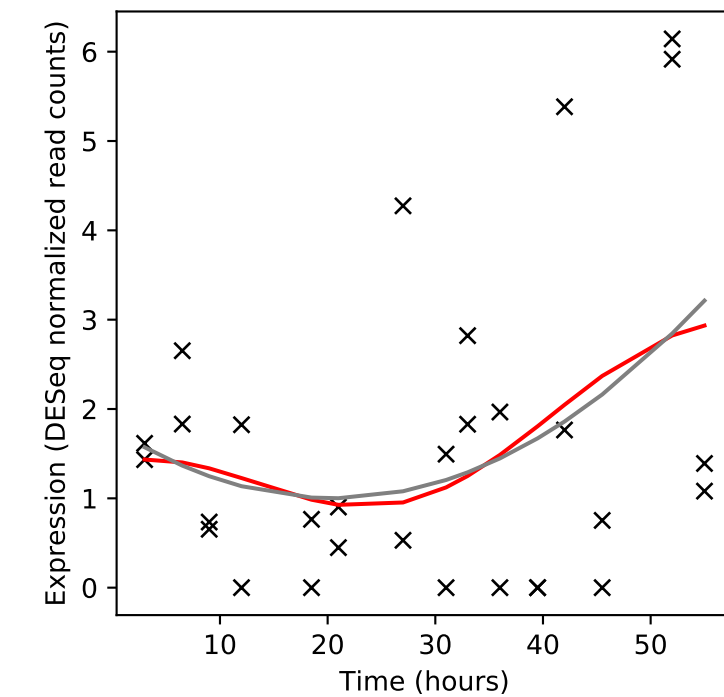
Rv1667c/-



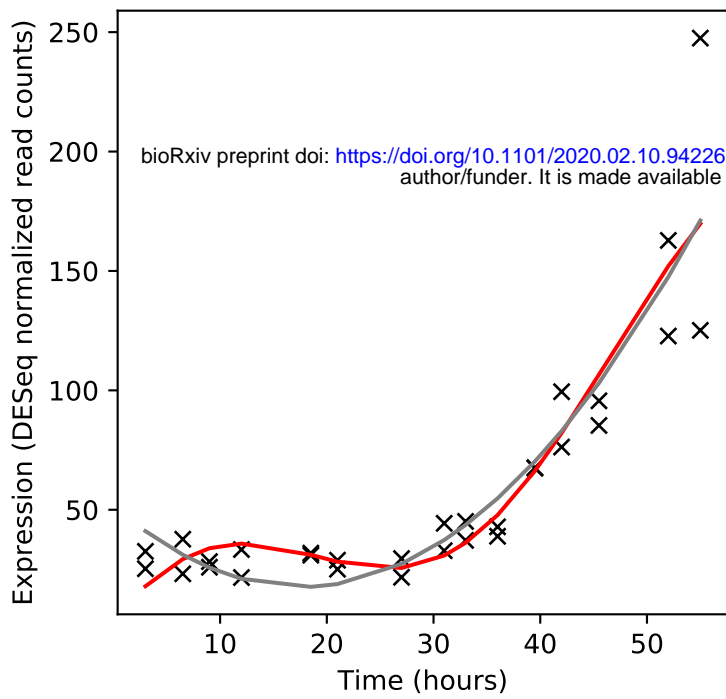
Rv1668c/-



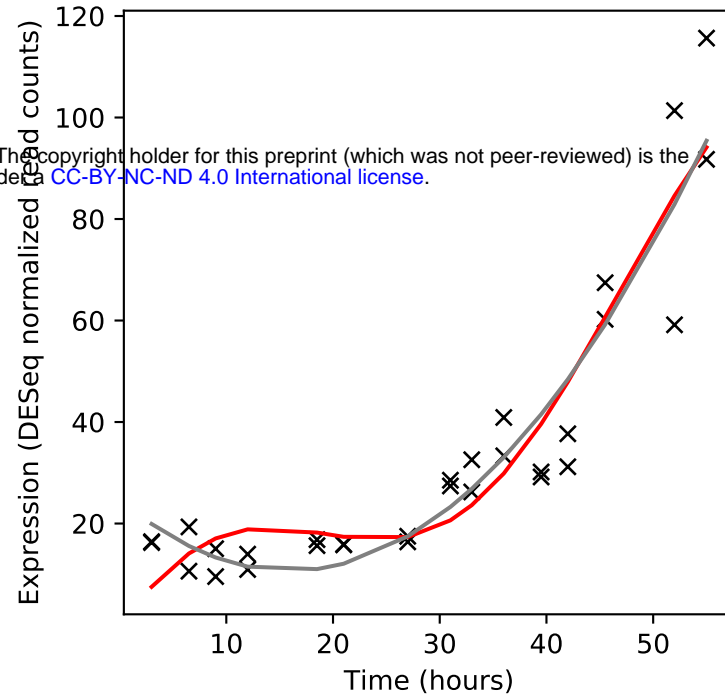
Rv1669/-



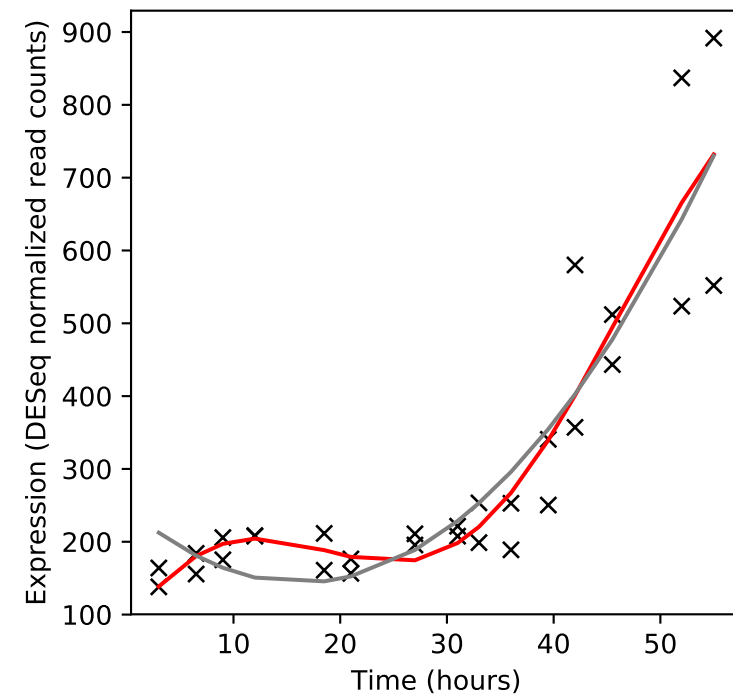
Rv1670/-



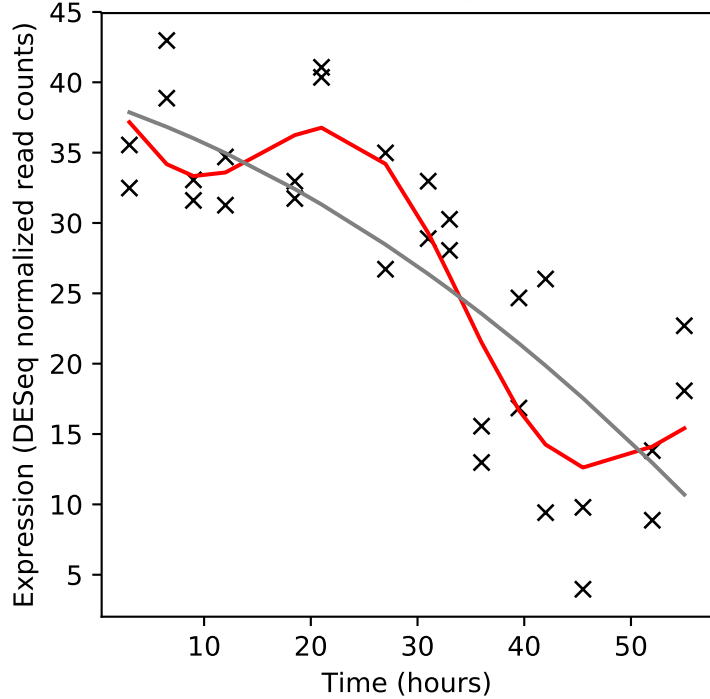
Rv1671/-



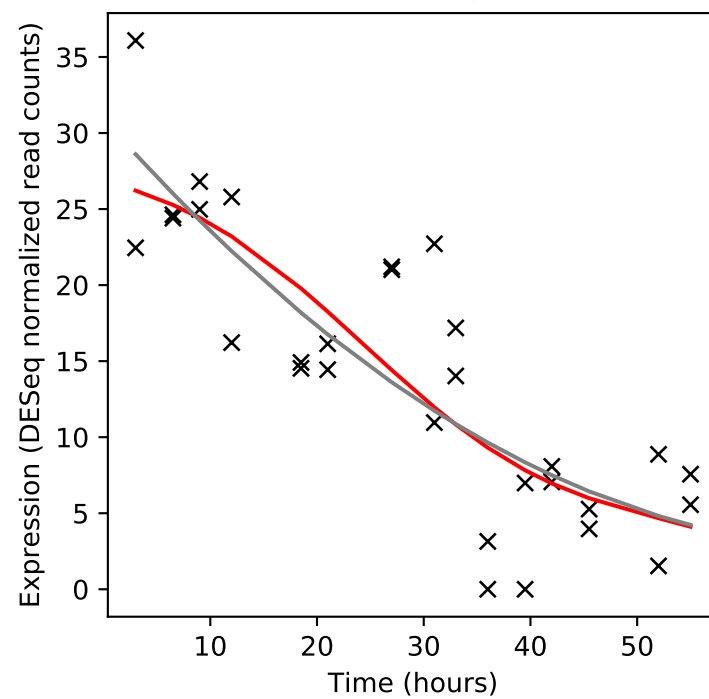
Rv1672c/-



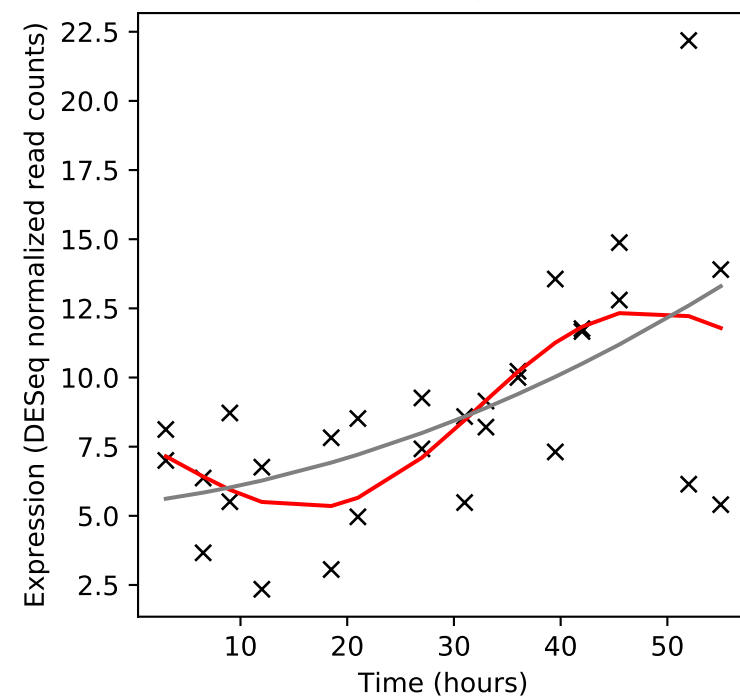
Rv1673c/-



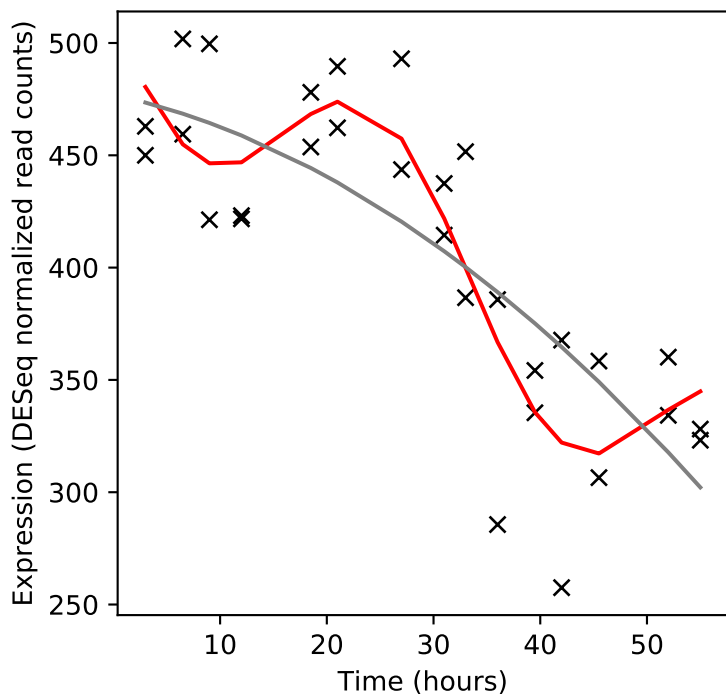
Rv1674c/-



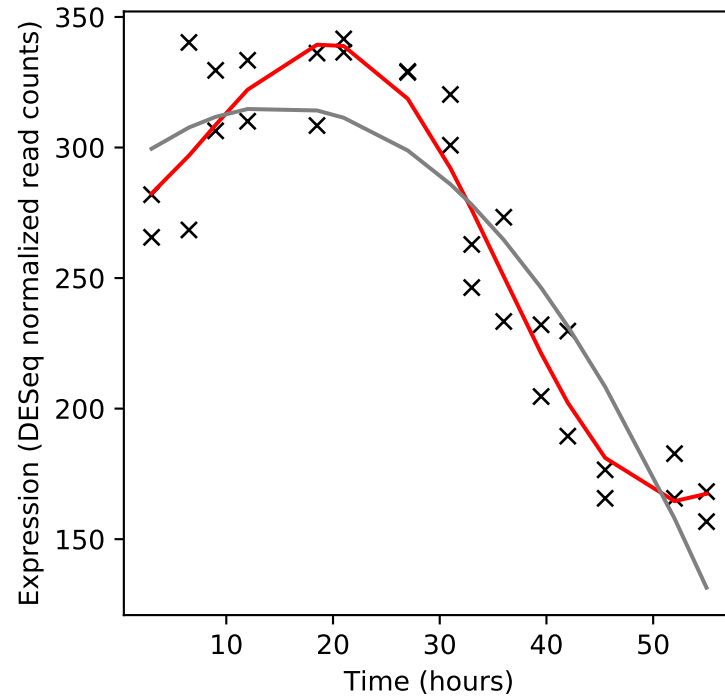
Rv1675c/cmr



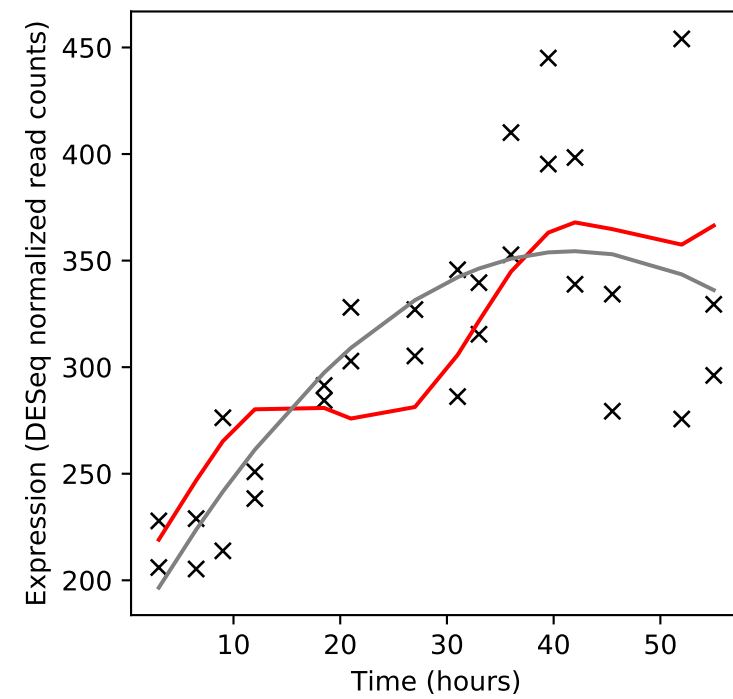
Rv1676/-



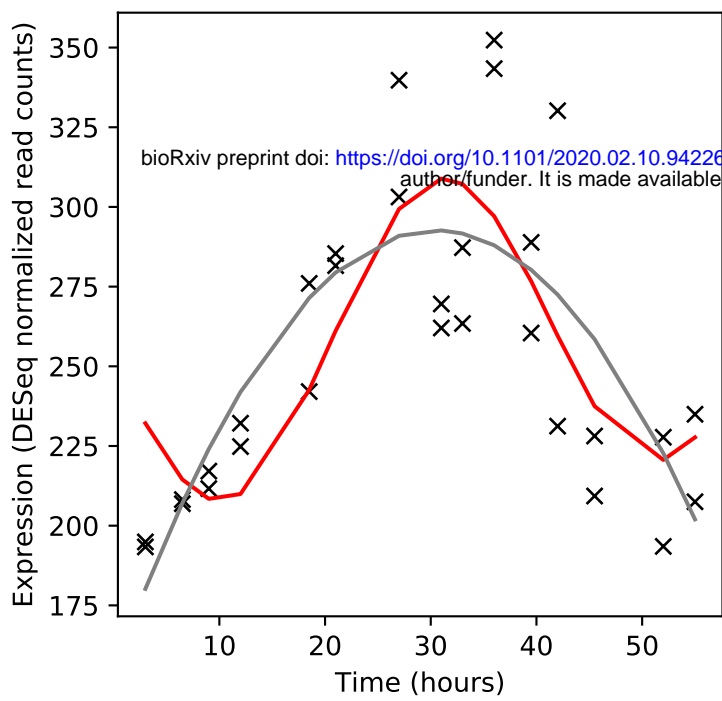
Rv1677/dsbF



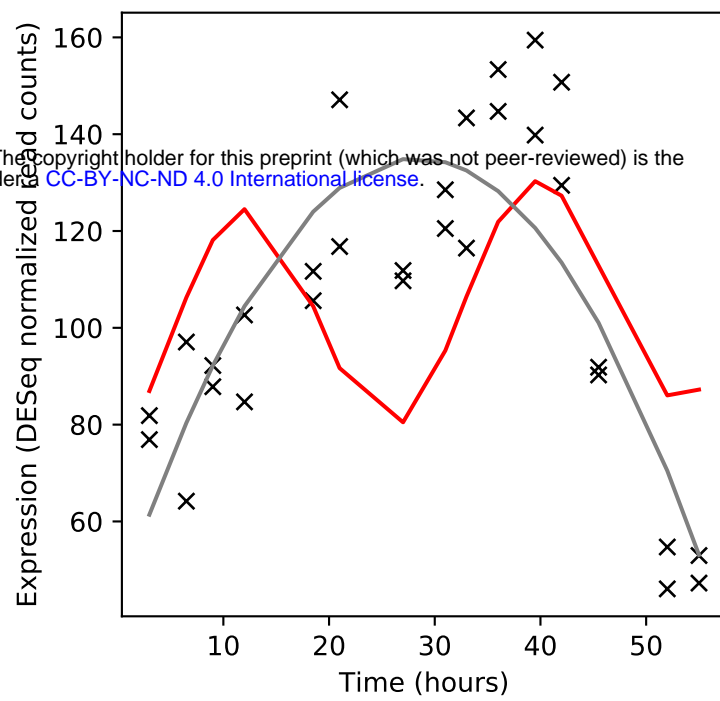
Rv1678/-



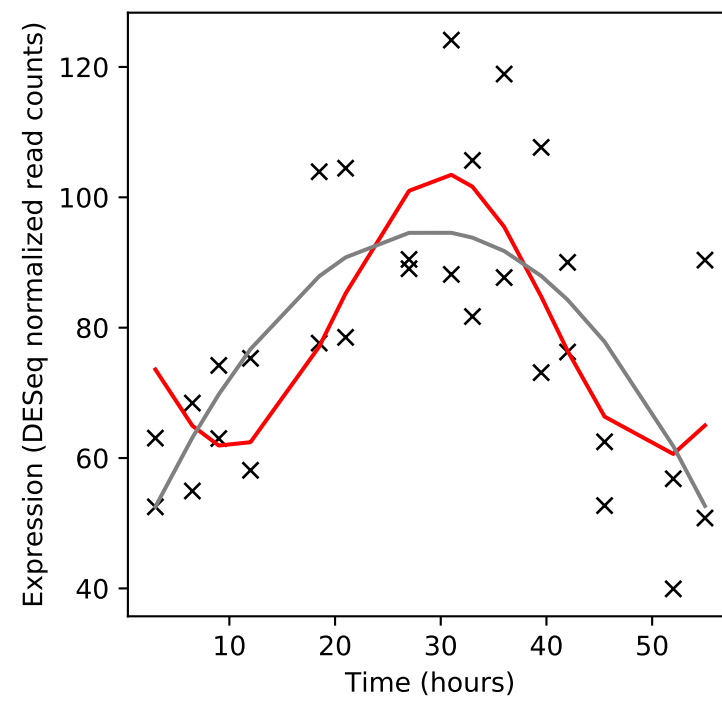
Rv1679/fadE16



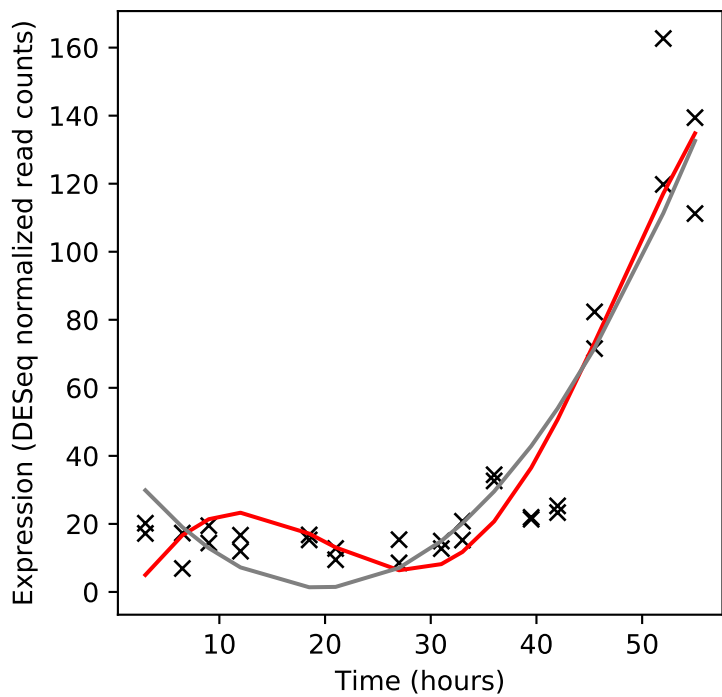
Rv1680/-



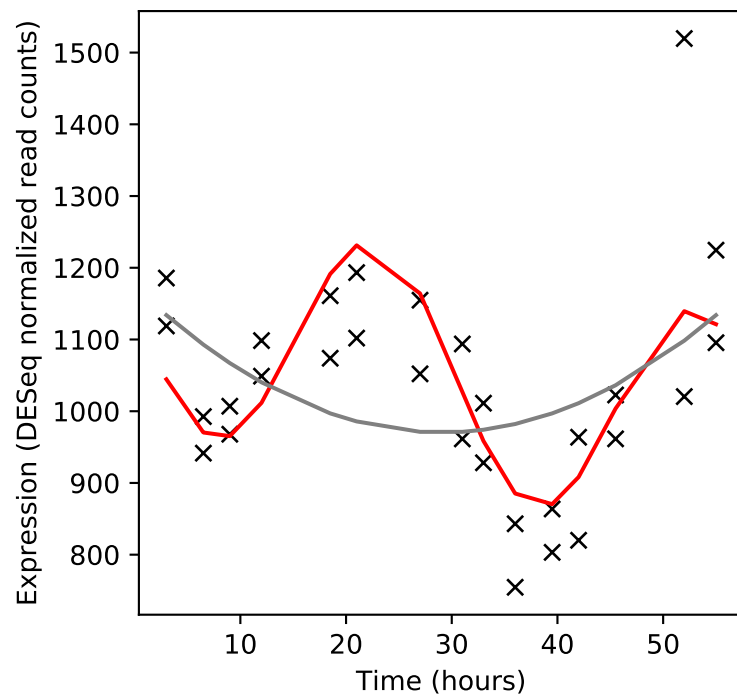
Rv1681/moeX



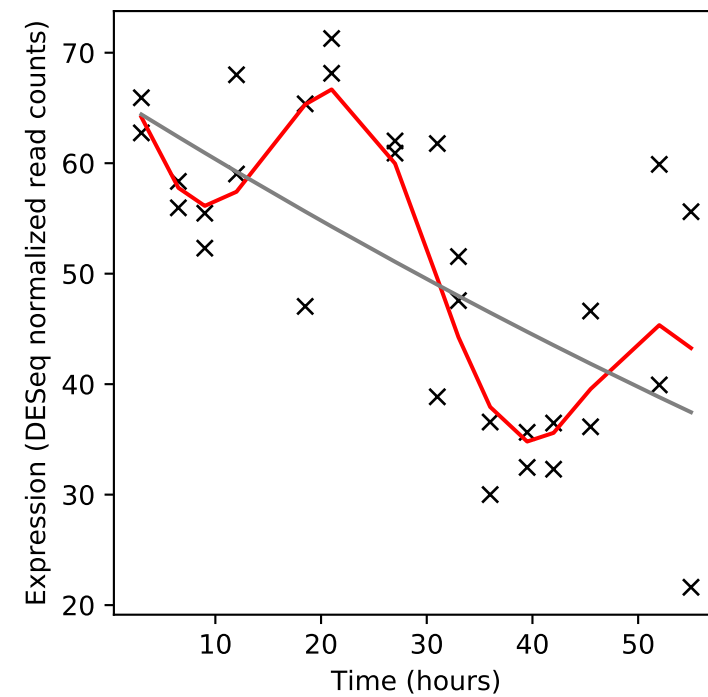
Rv1682/-



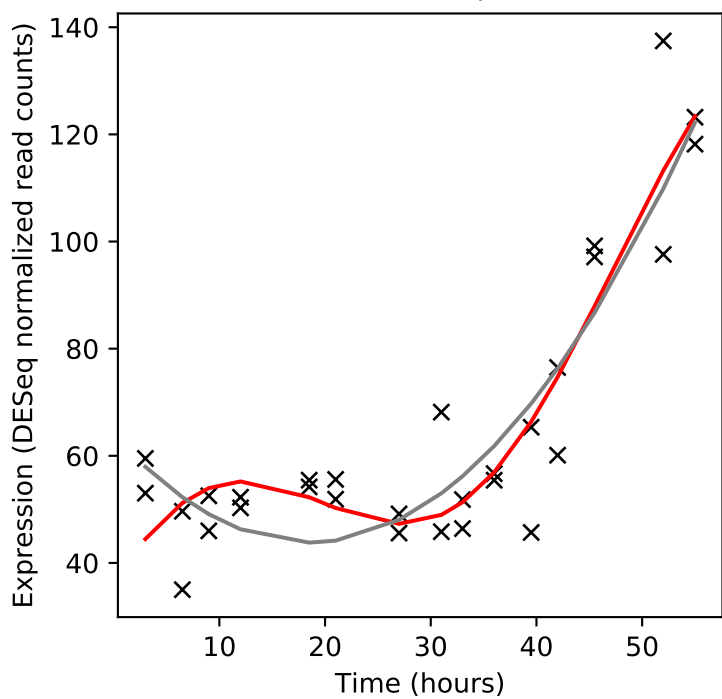
Rv1683/-



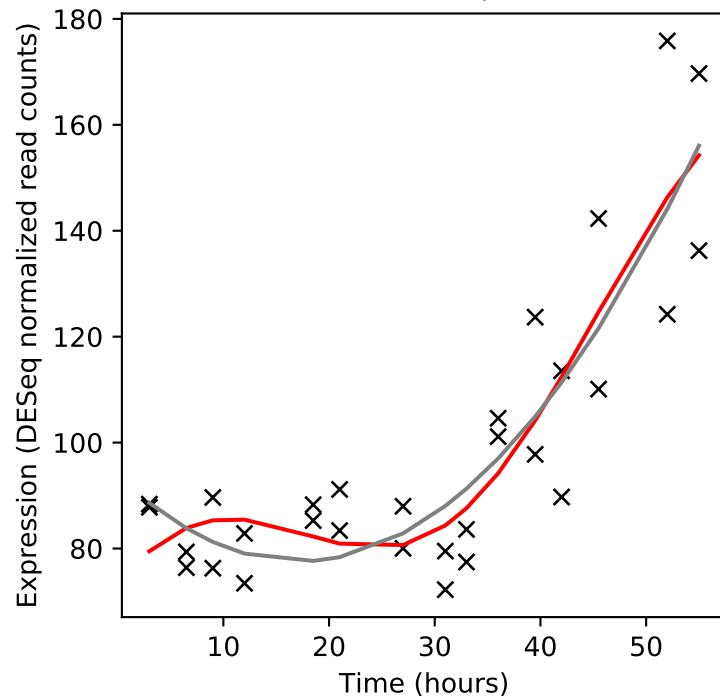
Rv1684/-



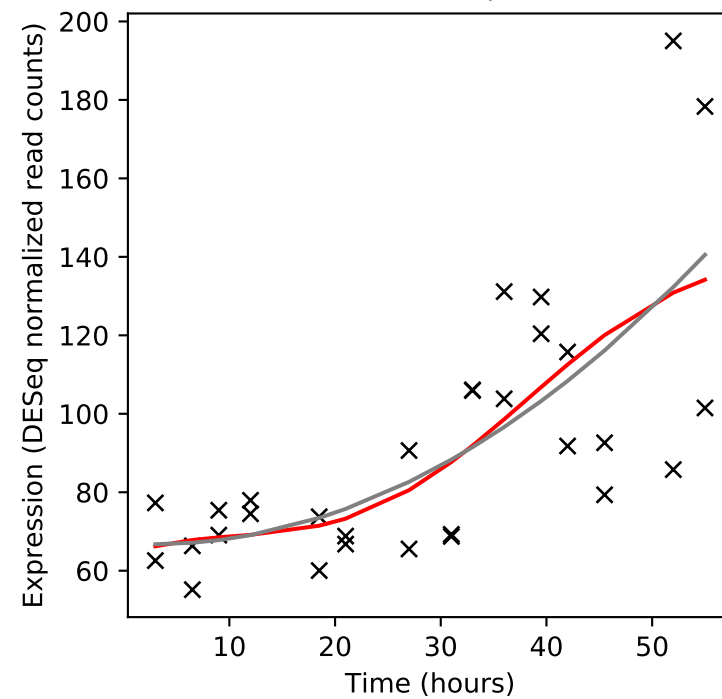
Rv1685c/-



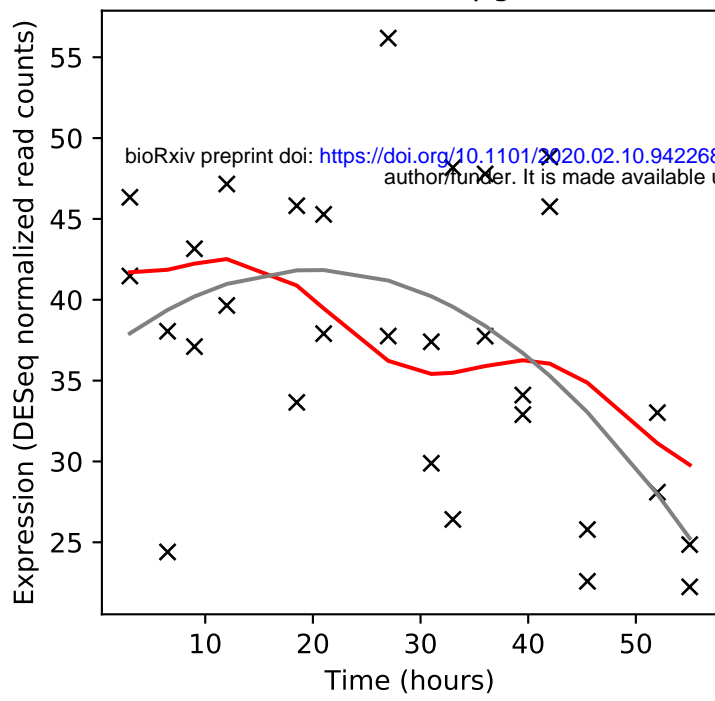
Rv1686c/-



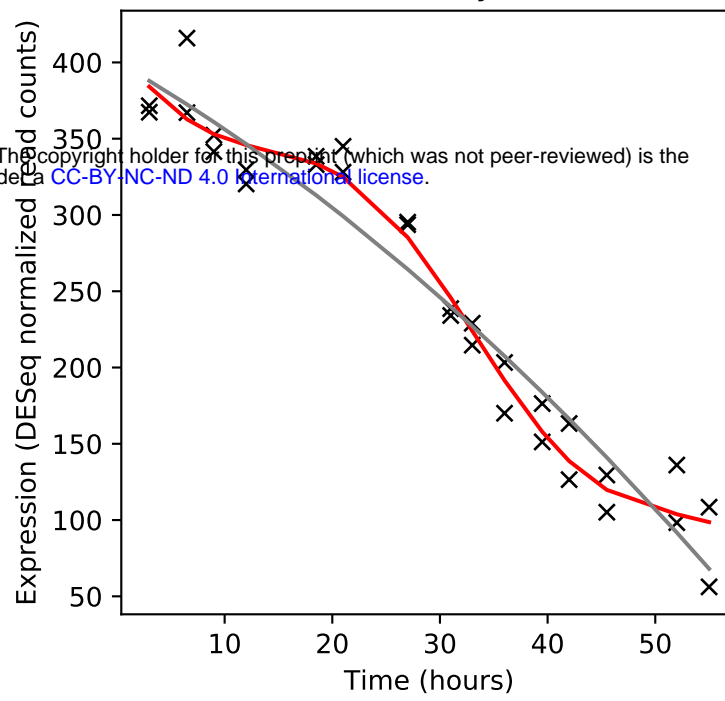
Rv1687c/-



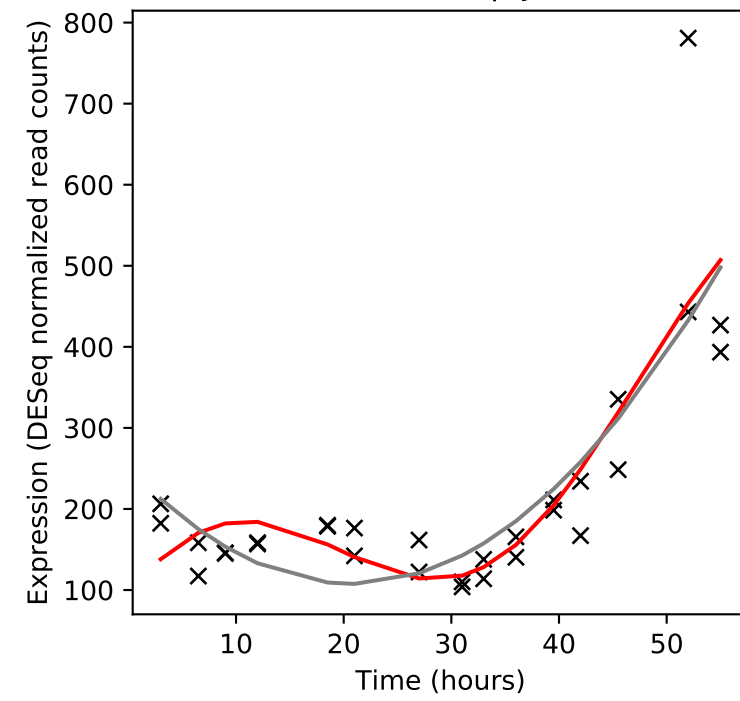
Rv1688/mpg



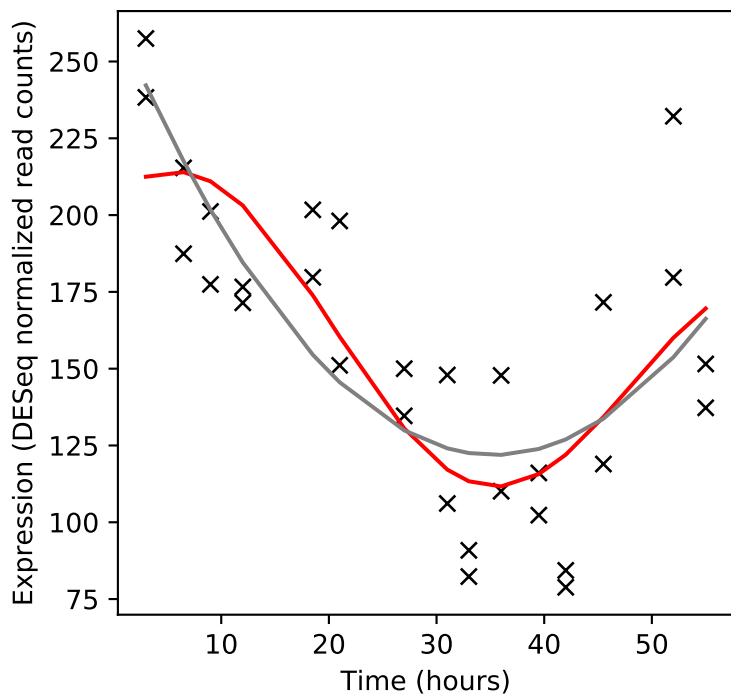
Rv1689/tyrS



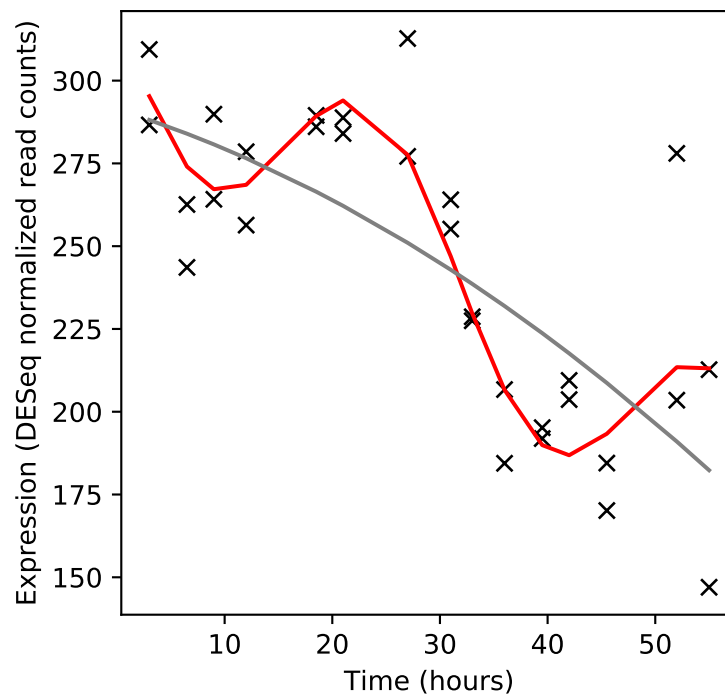
Rv1690/lprJ



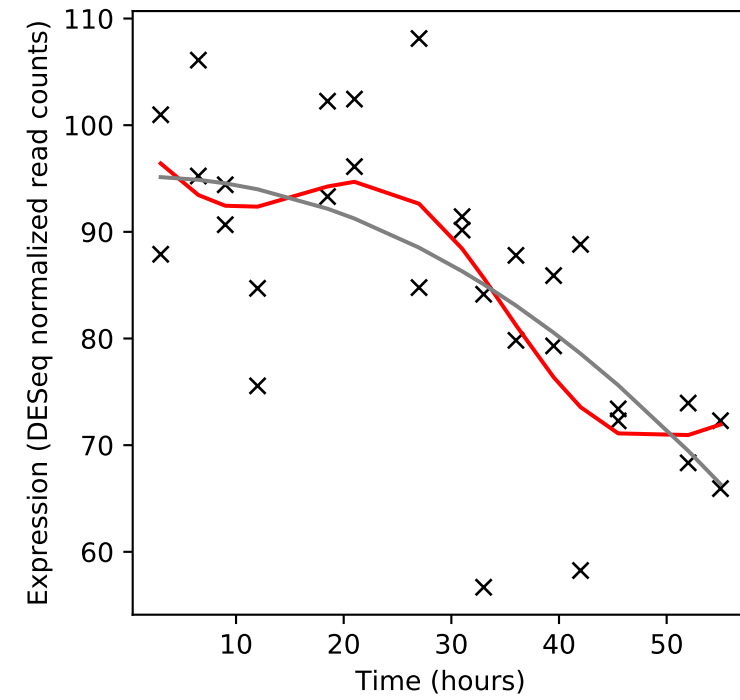
Rv1691/-



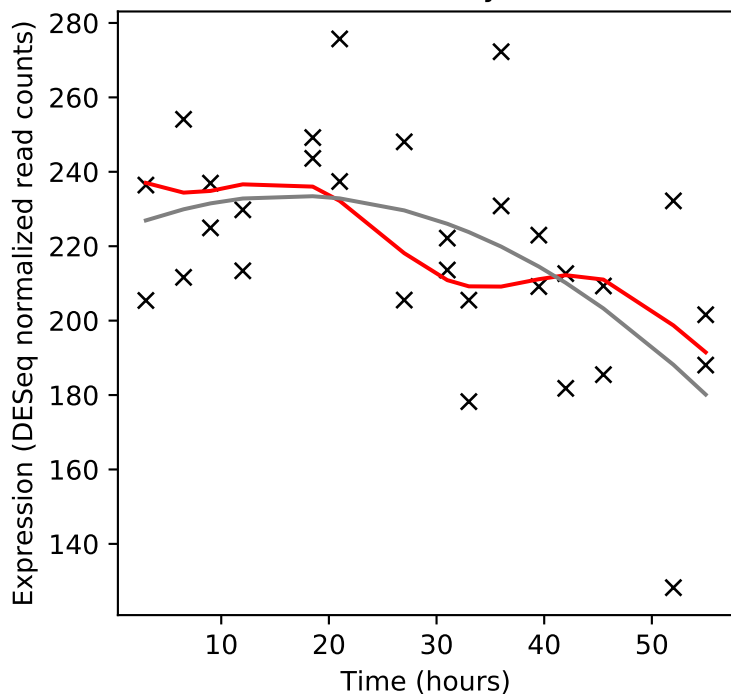
Rv1692/-



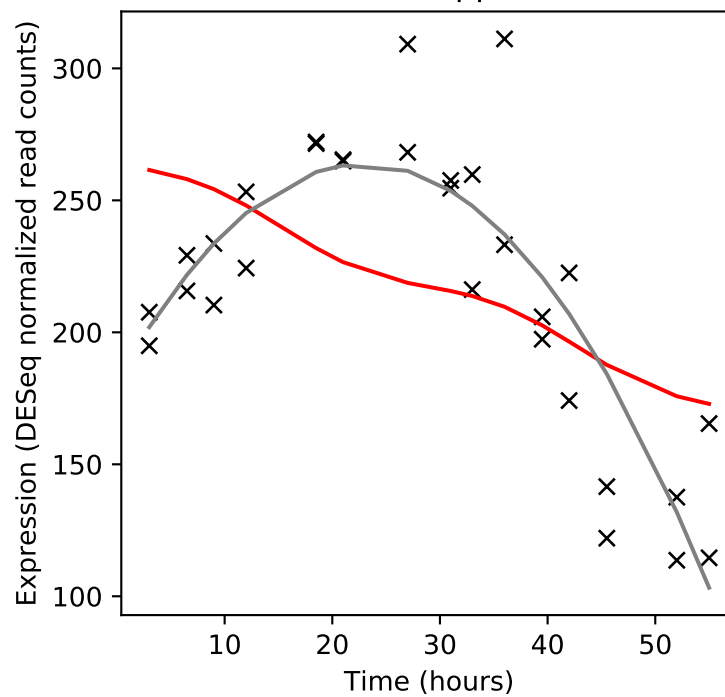
Rv1693/-



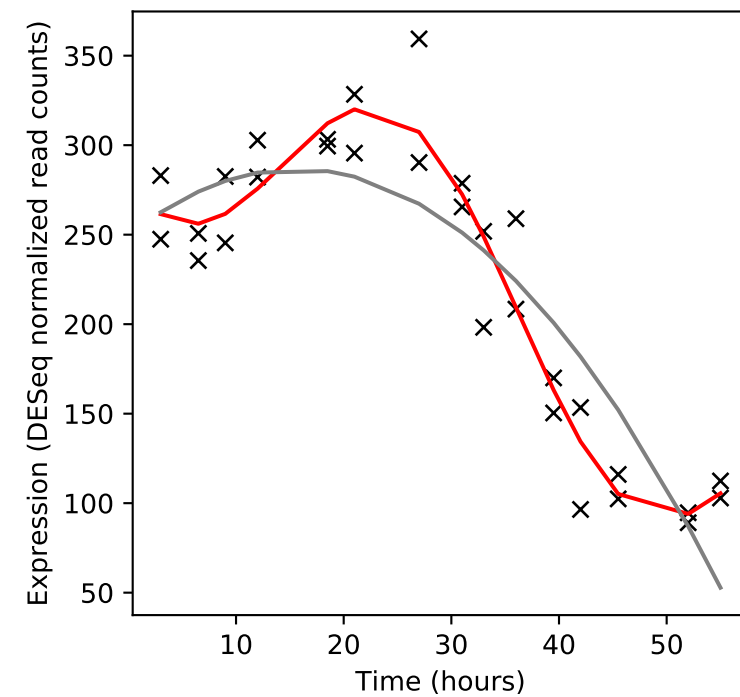
Rv1694/tlyA



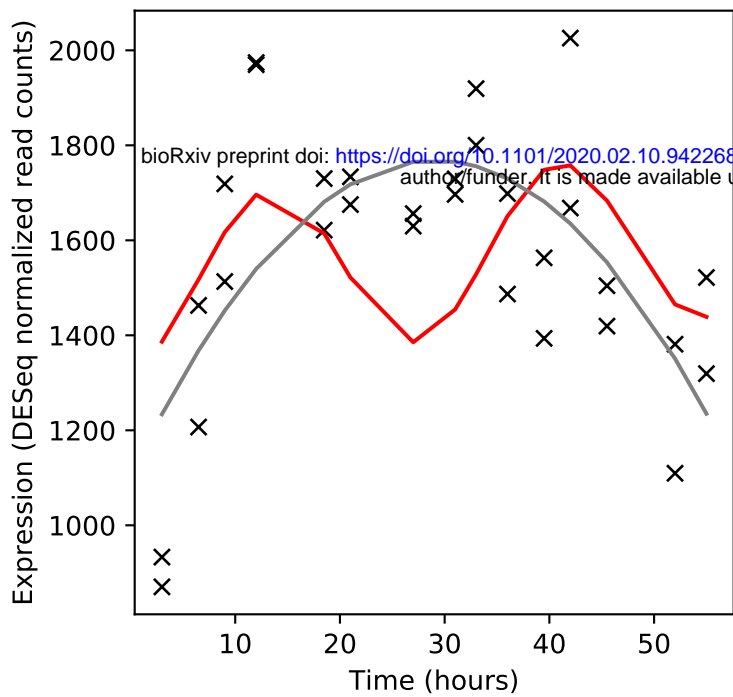
Rv1695/ppnK



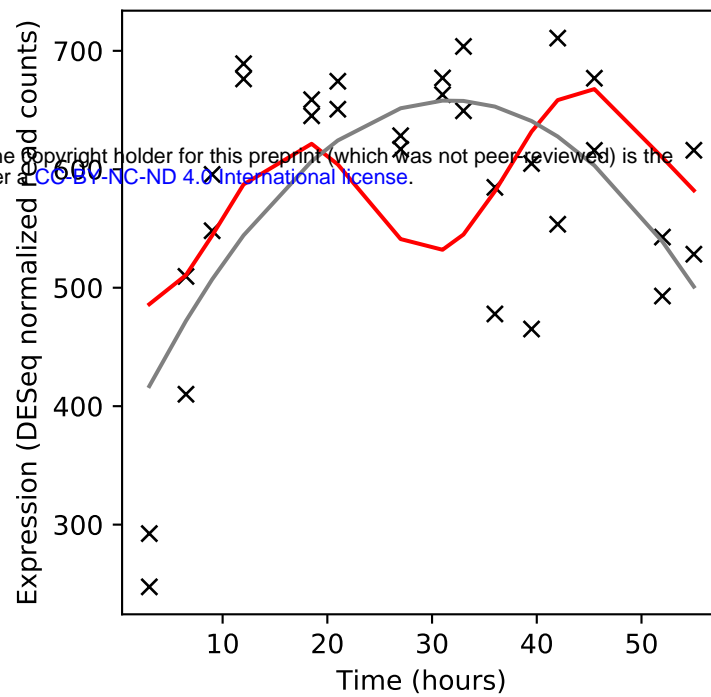
Rv1696/recN



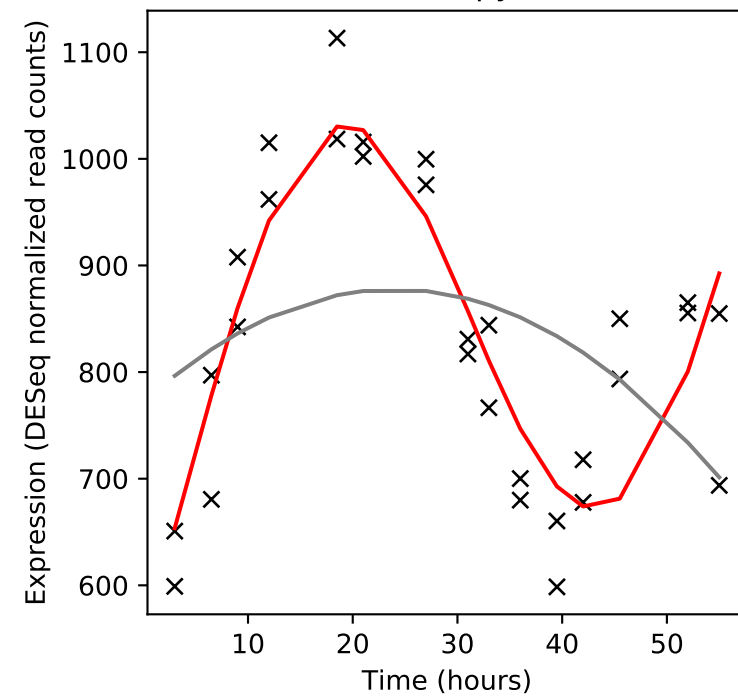
Rv1697/-



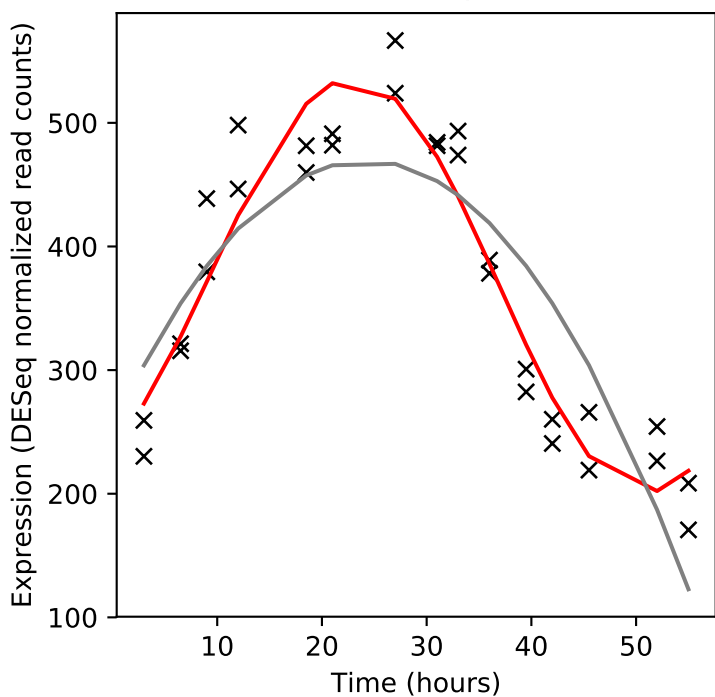
Rv1698/mctB



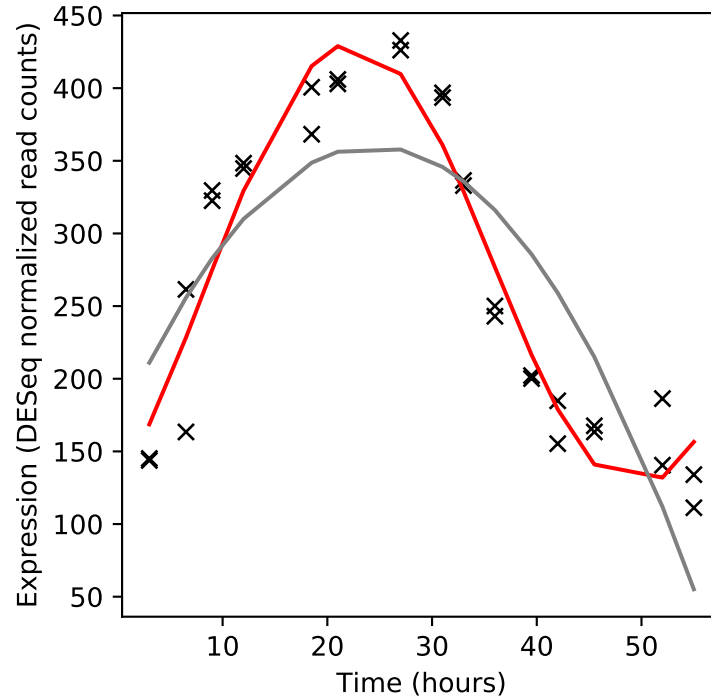
Rv1699/pyrG



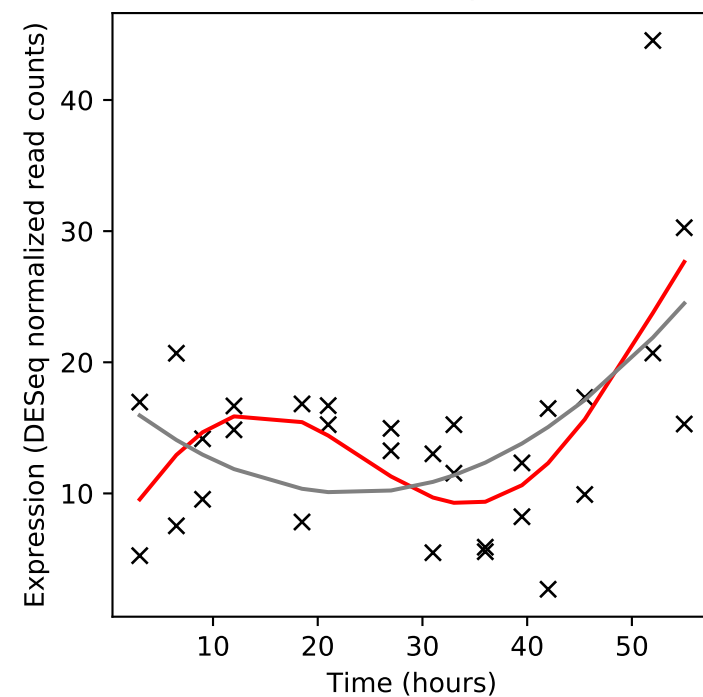
Rv1700/-



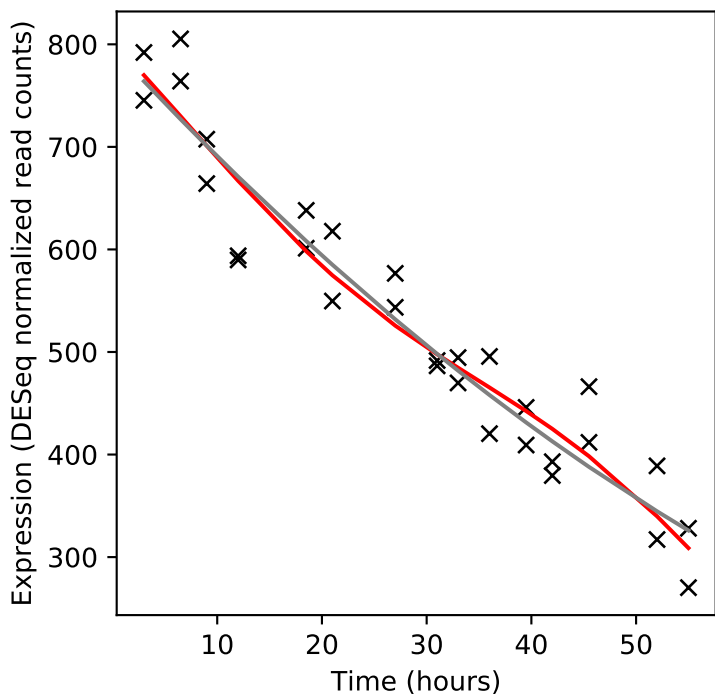
Rv1701/-



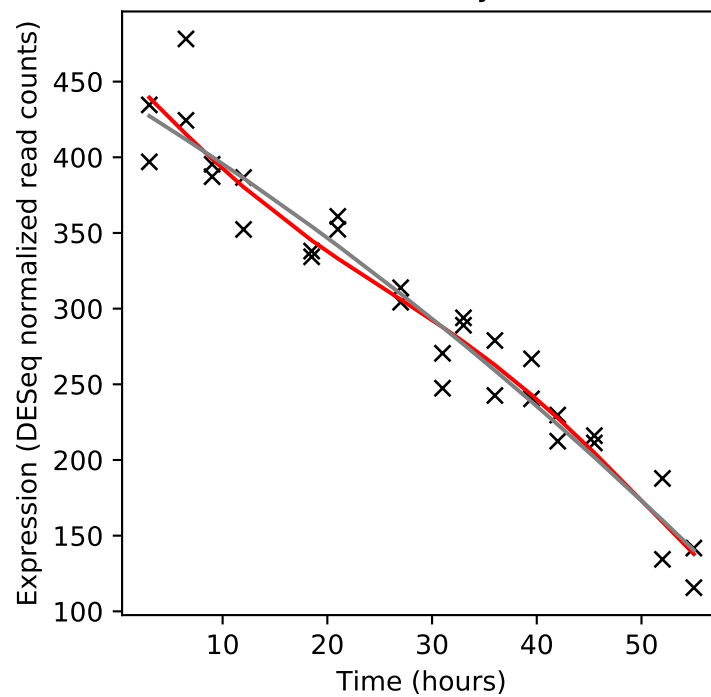
Rv1702c/-



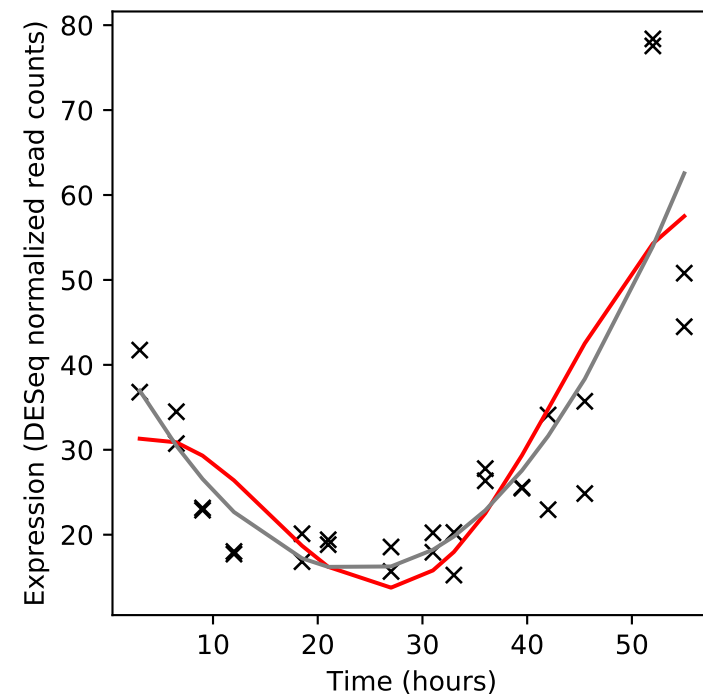
Rv1703c/-



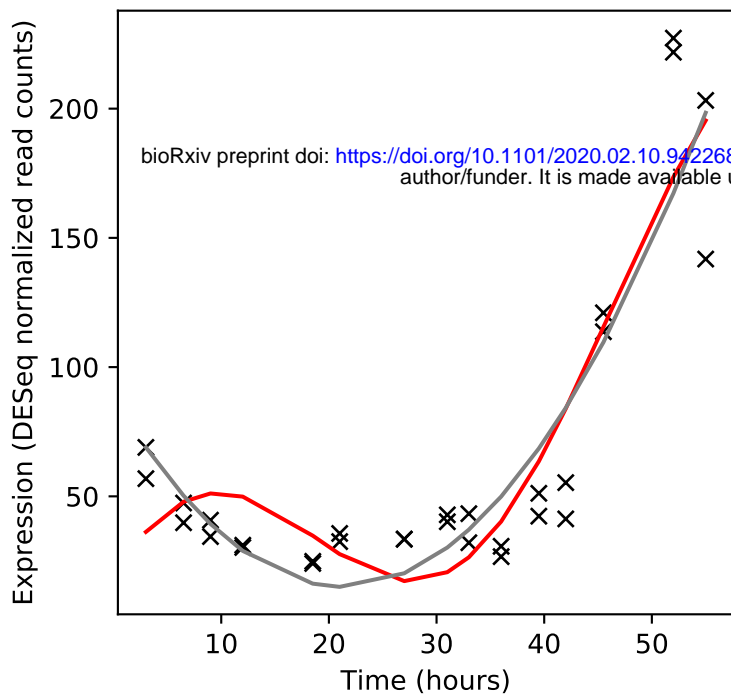
Rv1704c/cycA



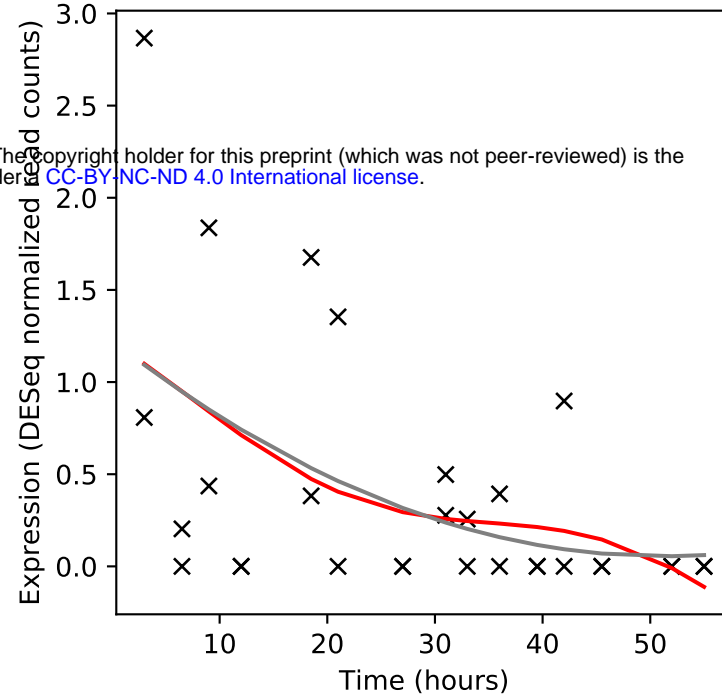
Rv1705c/PPE22



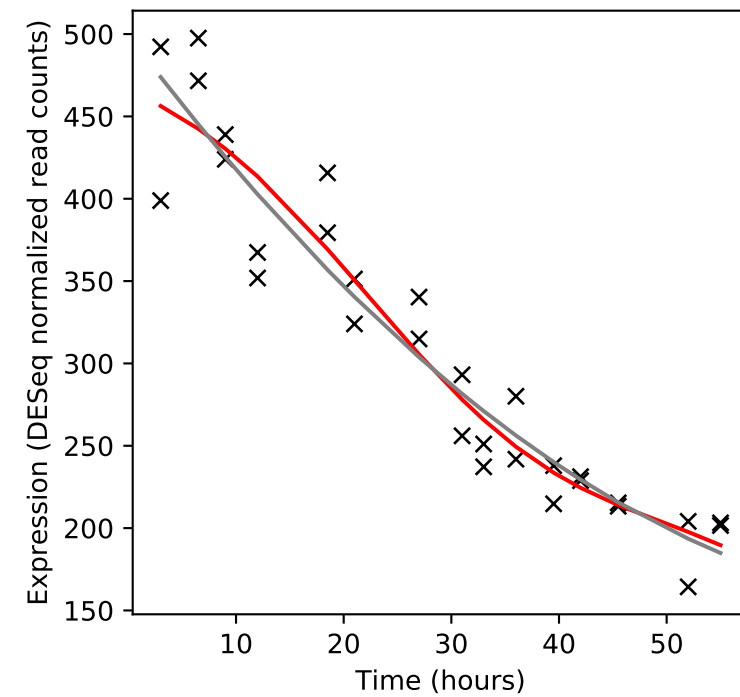
Rv1706c/PPE23



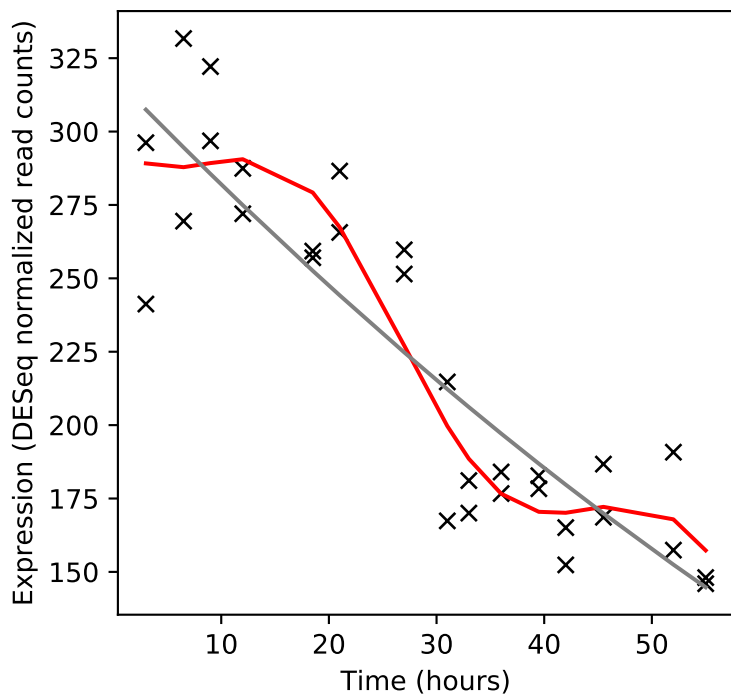
Rv1706A/-



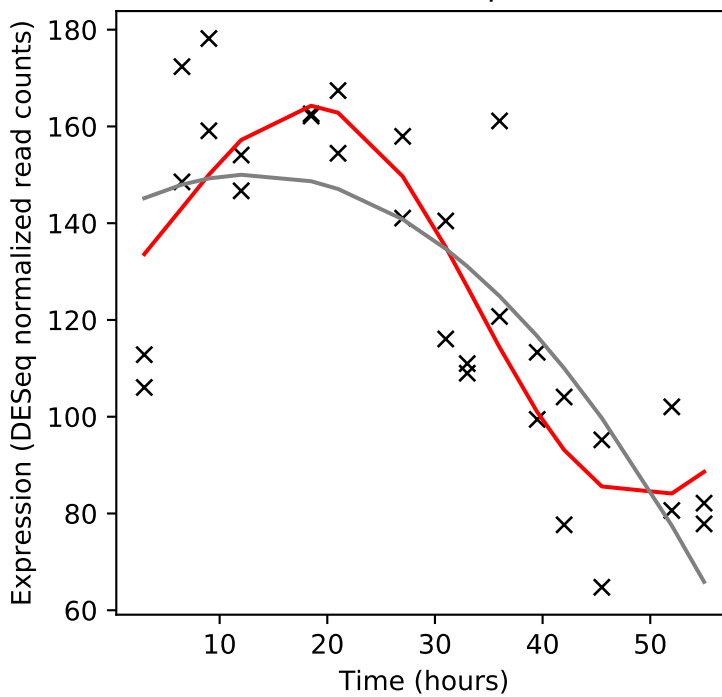
Rv1707/-



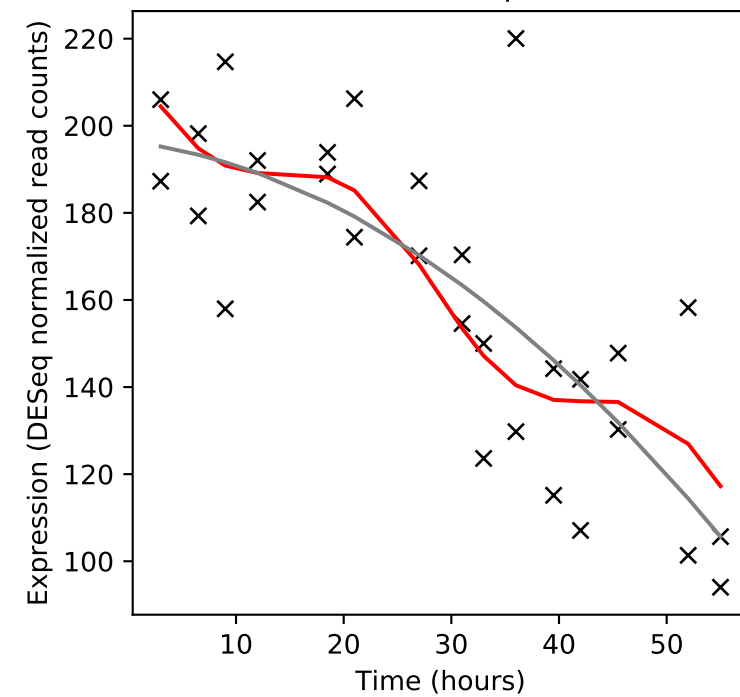
Rv1708/-



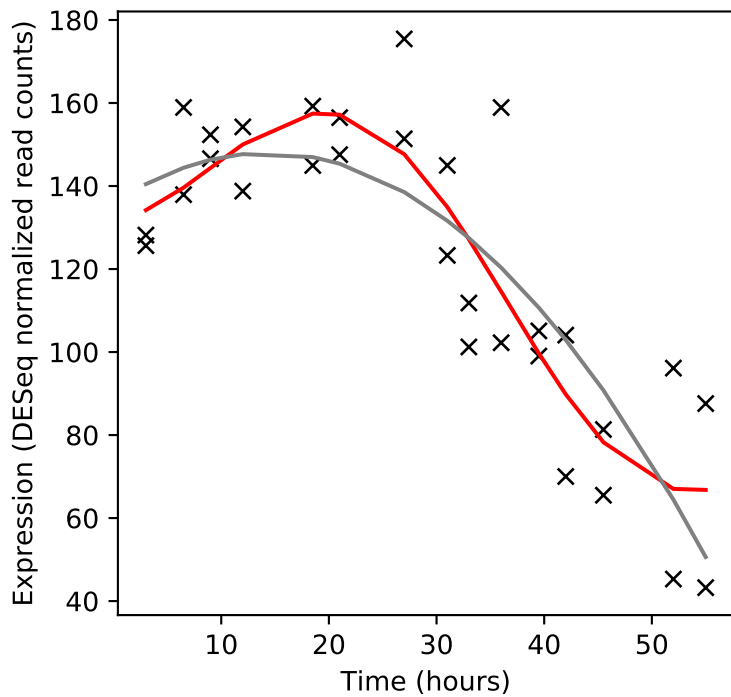
Rv1709/scpA



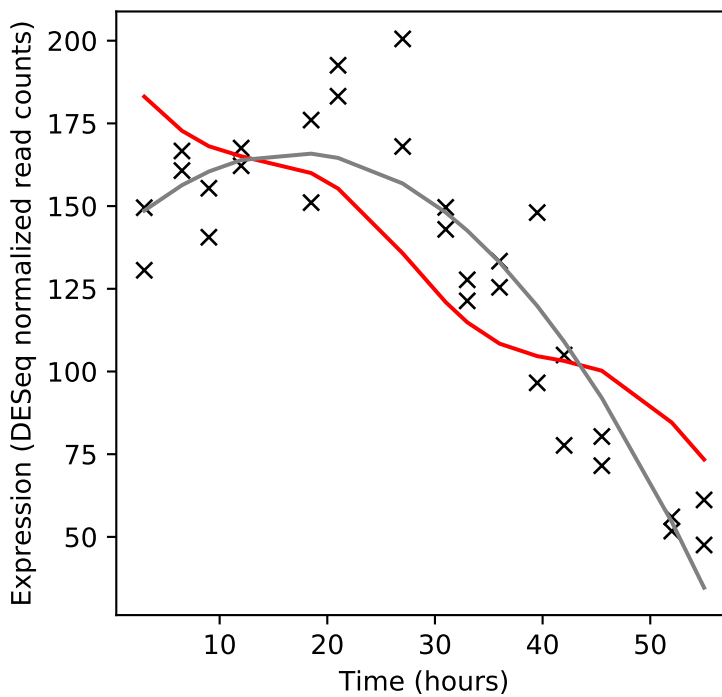
Rv1710/scpB



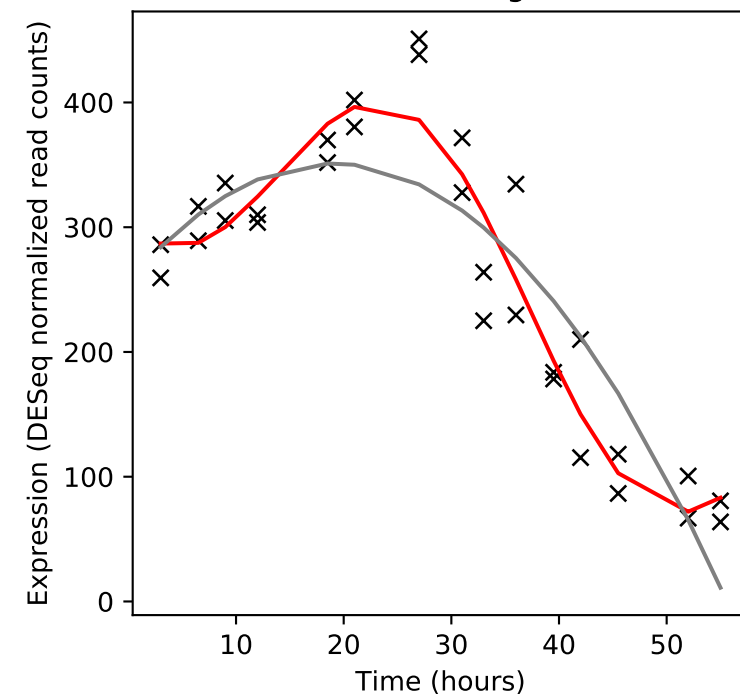
Rv1711/-



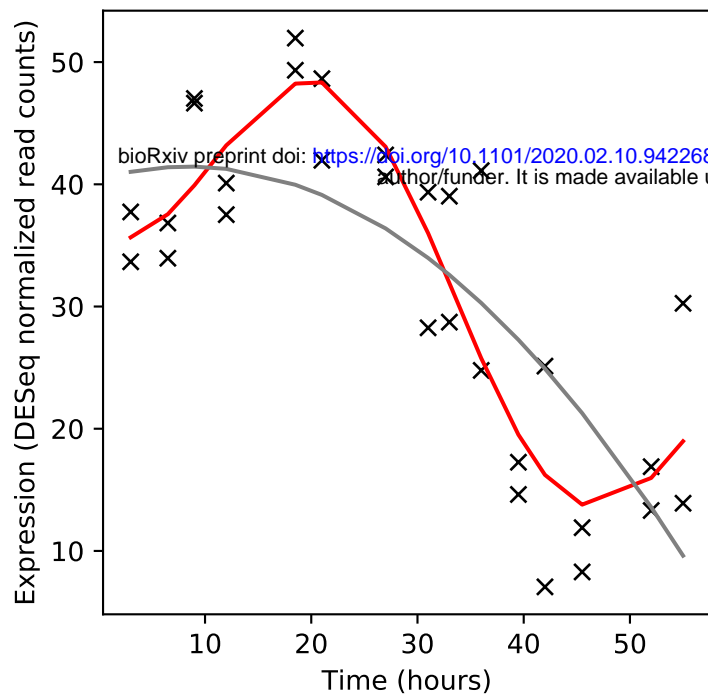
Rv1712/cmK



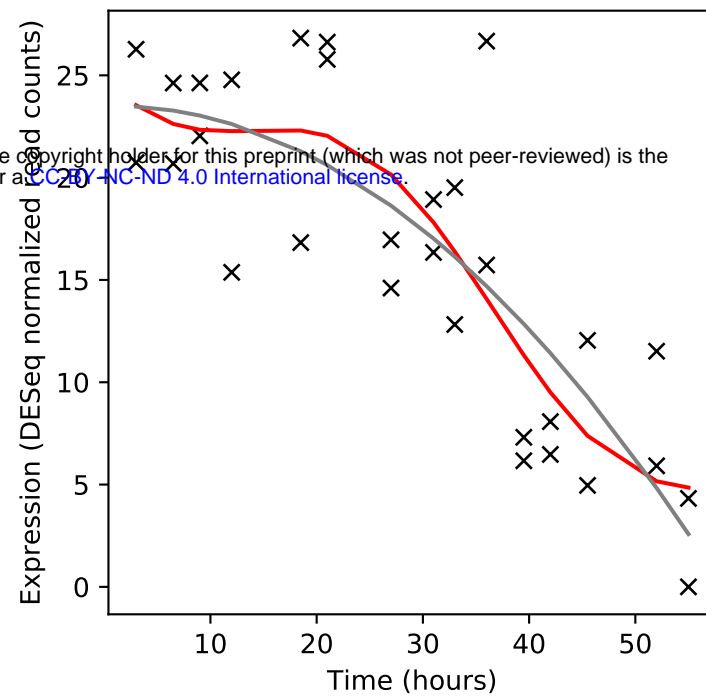
Rv1713/engA



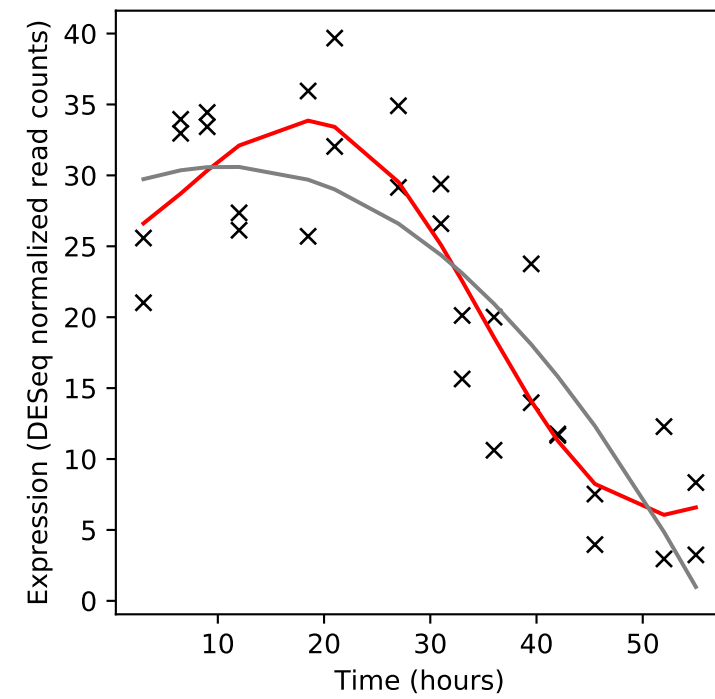
Rv1714/-



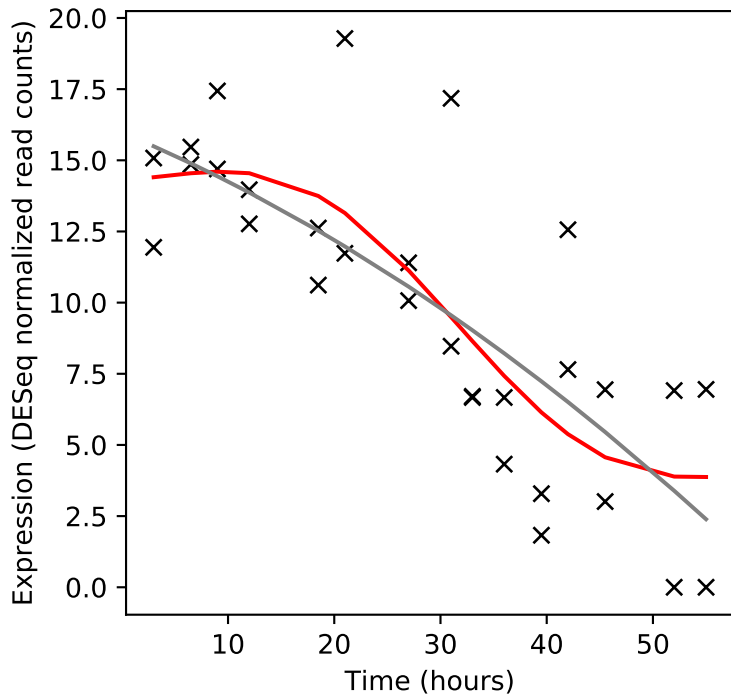
Rv1715/fadB3



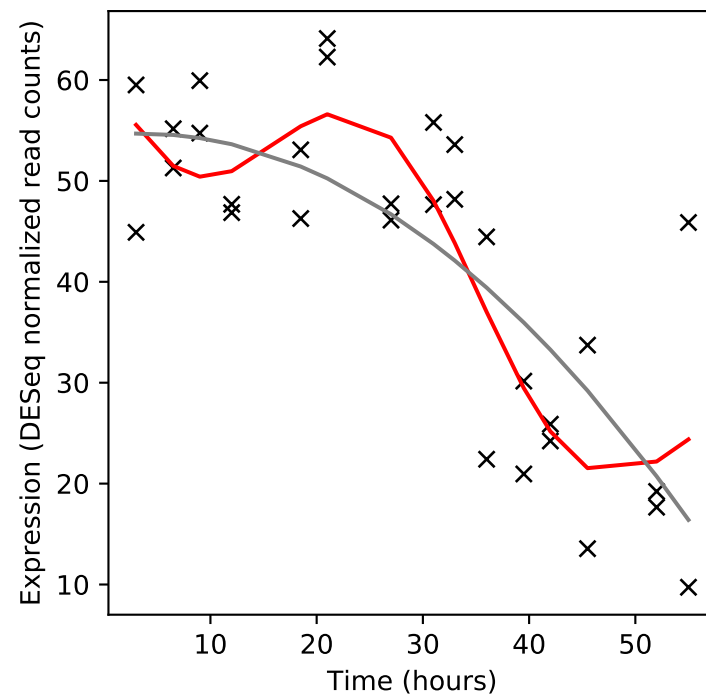
Rv1716/-



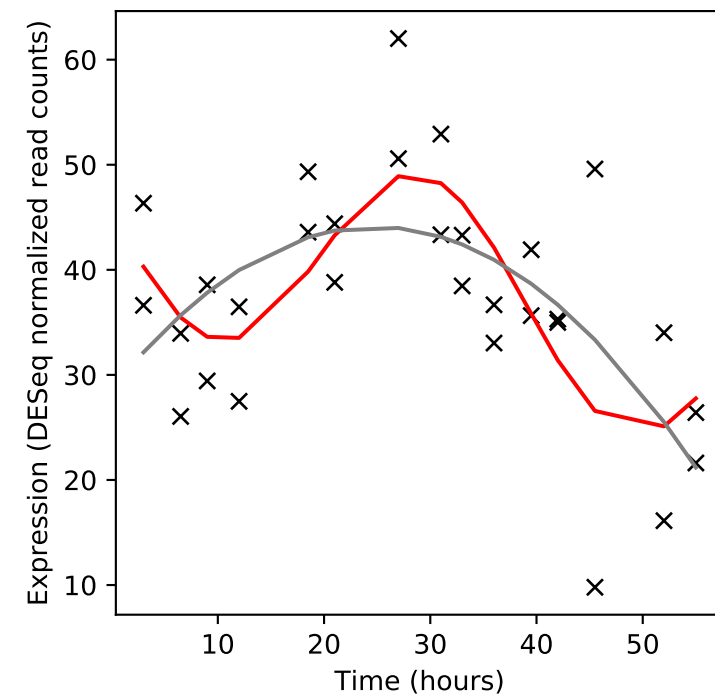
Rv1717/-



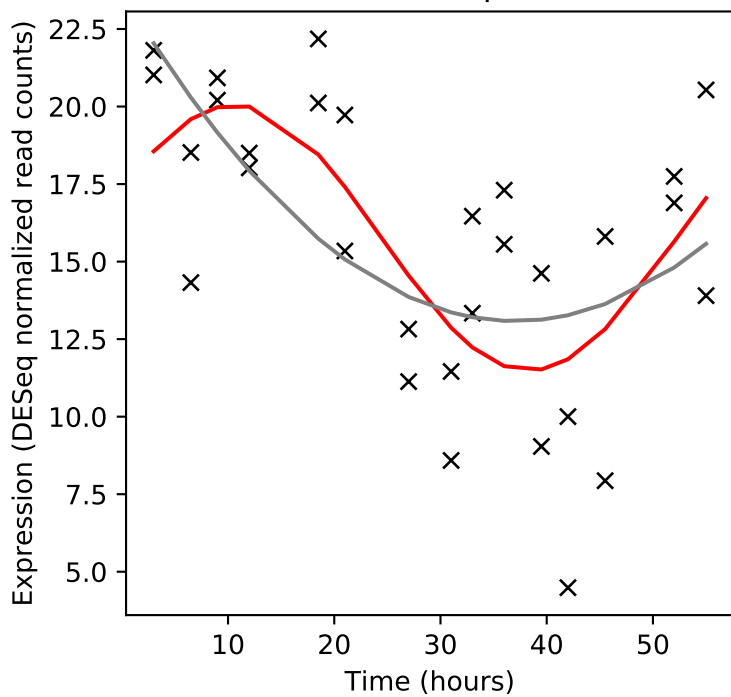
Rv1718/-



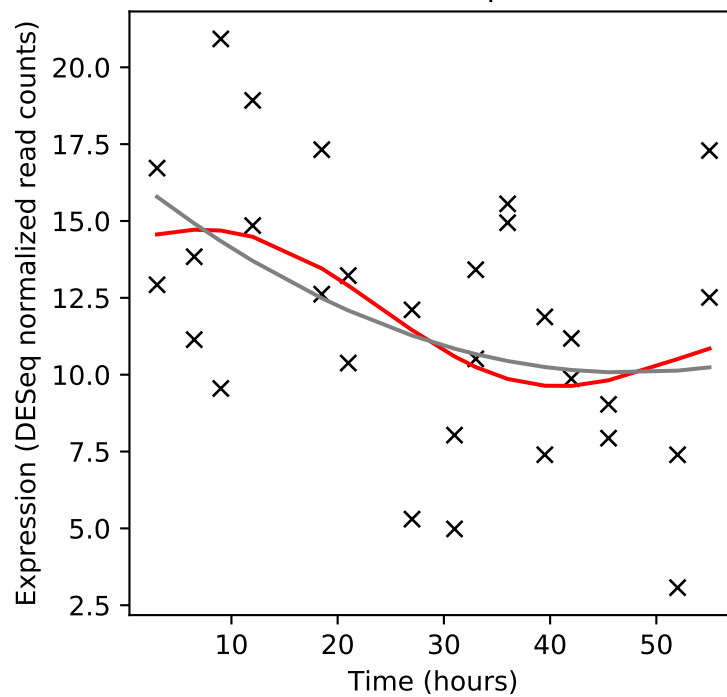
Rv1719/-



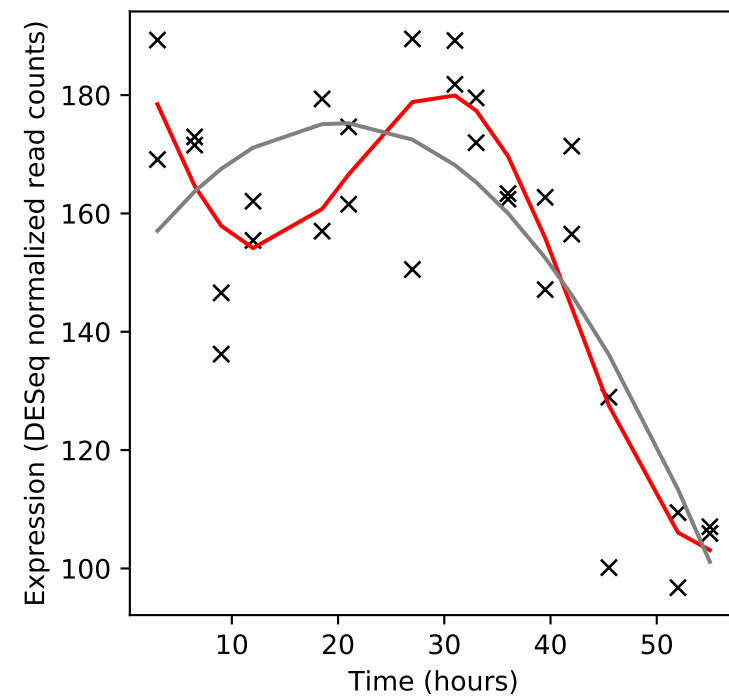
Rv1720c/vapC12



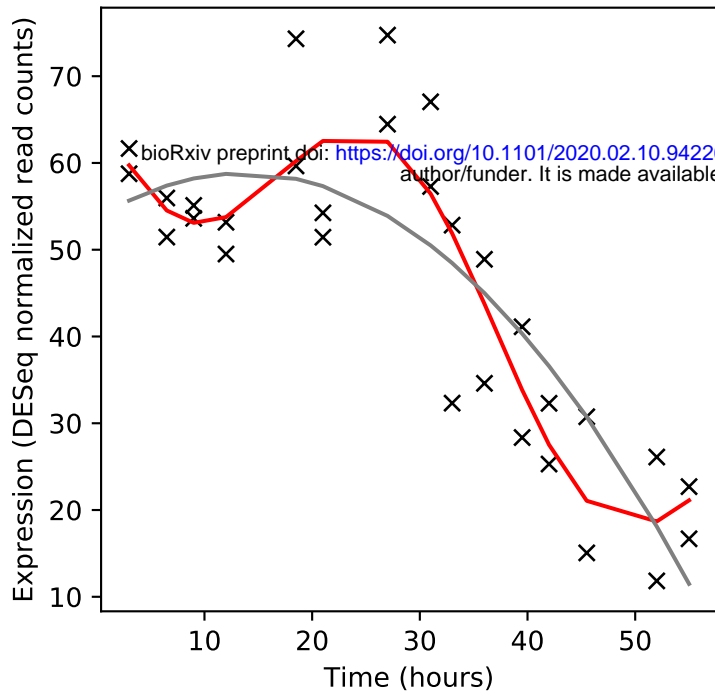
Rv1721c/vapB12



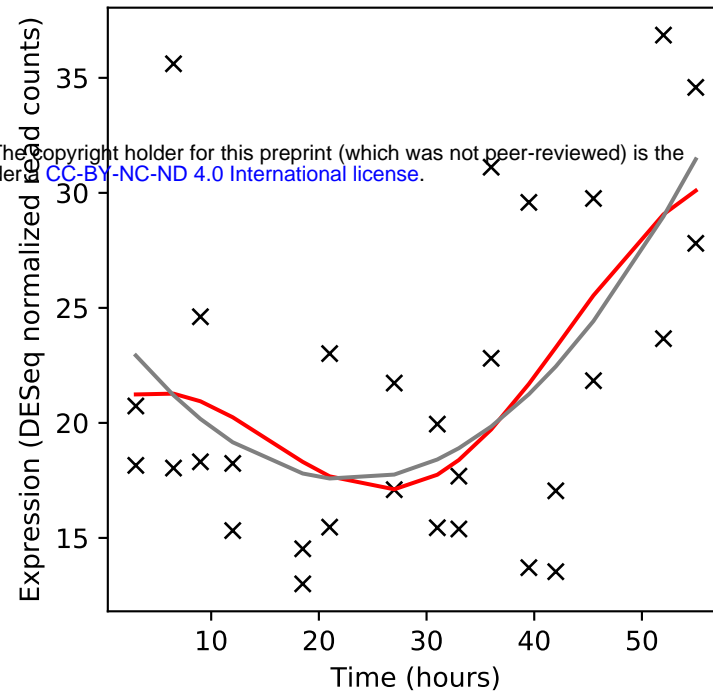
Rv1722/-



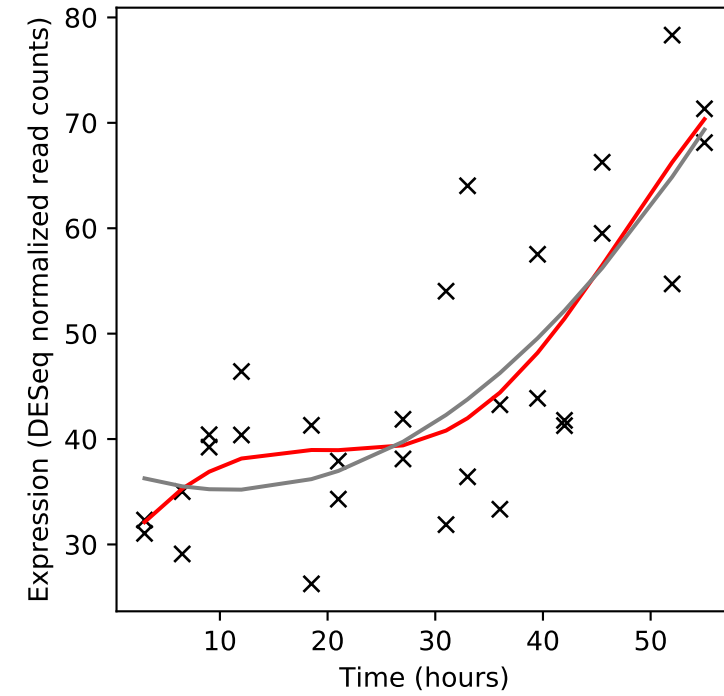
Rv1723/-



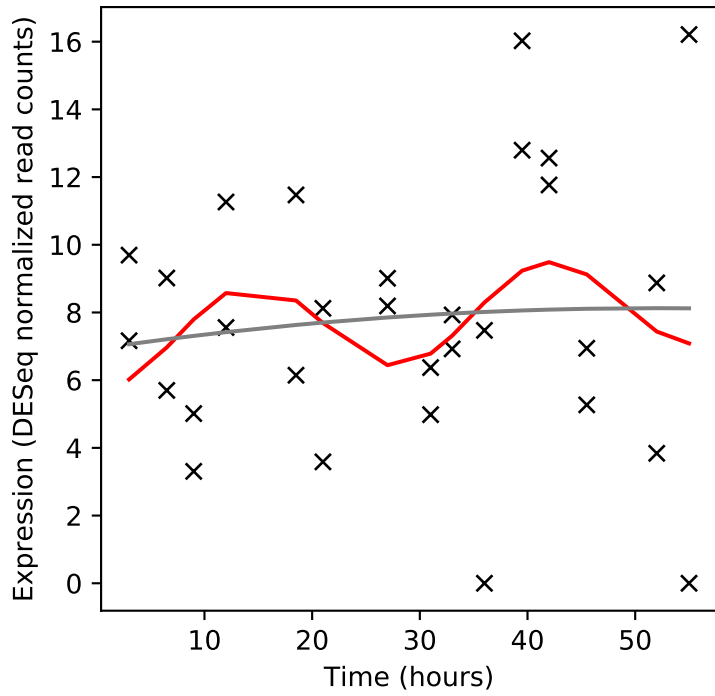
Rv1724c/-



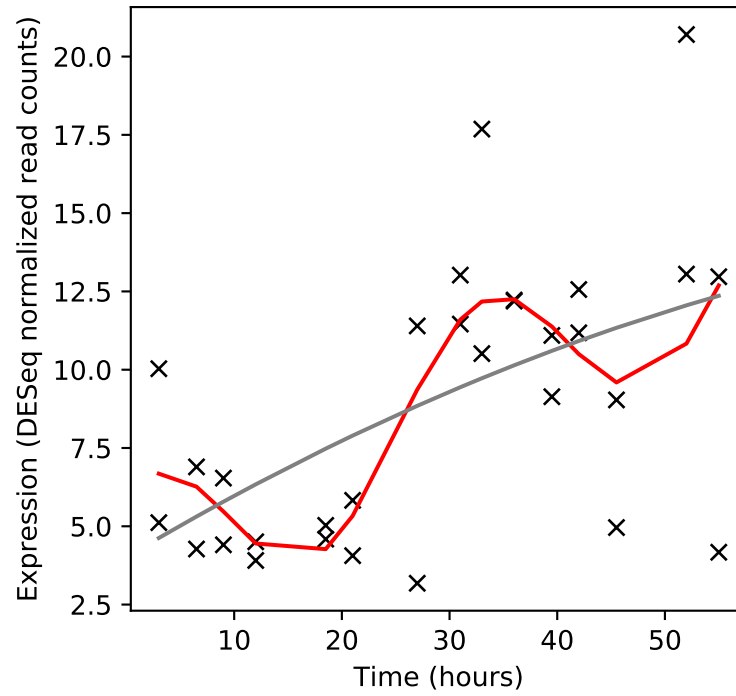
Rv1725c/-



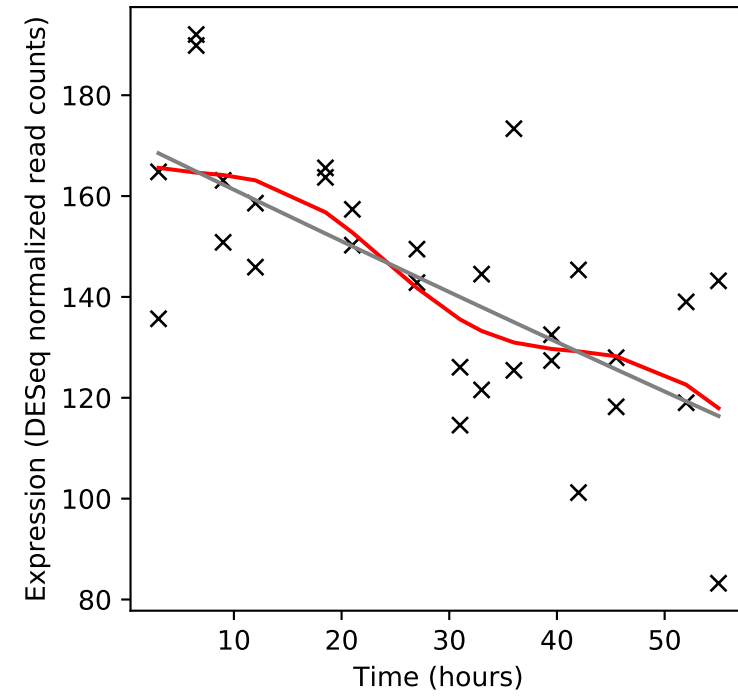
Rv1726/-



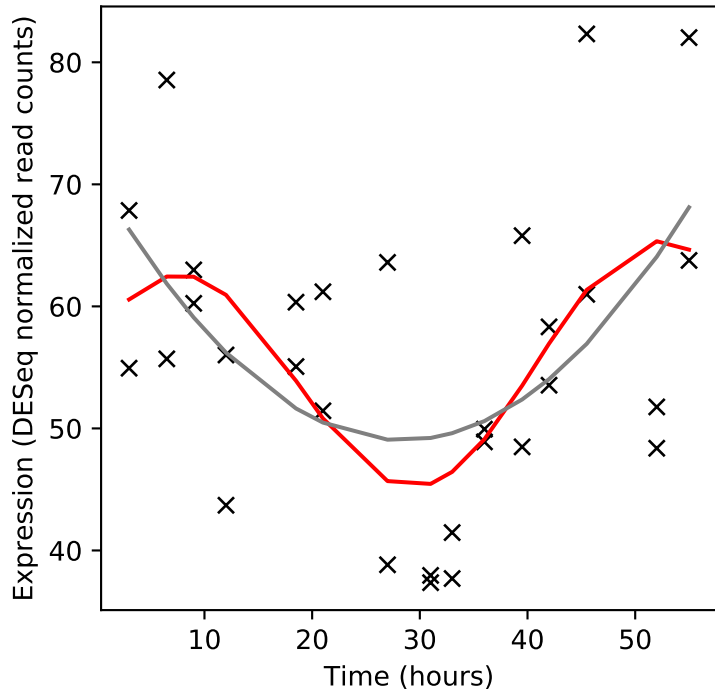
Rv1727/-



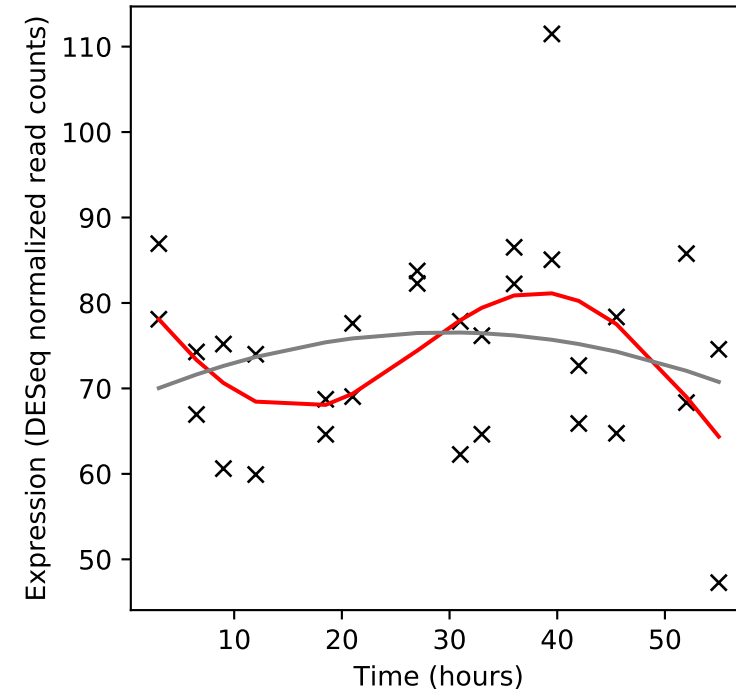
Rv1728c/-



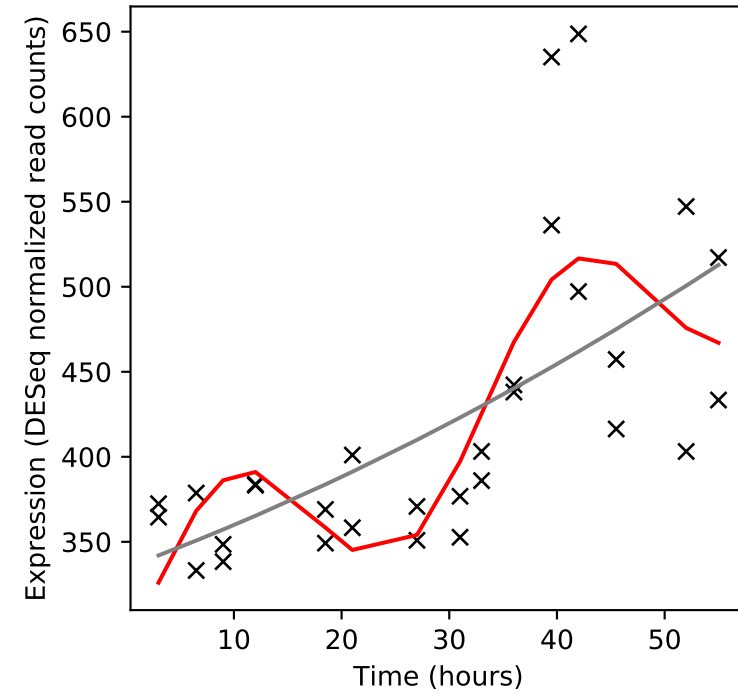
Rv1729c/-



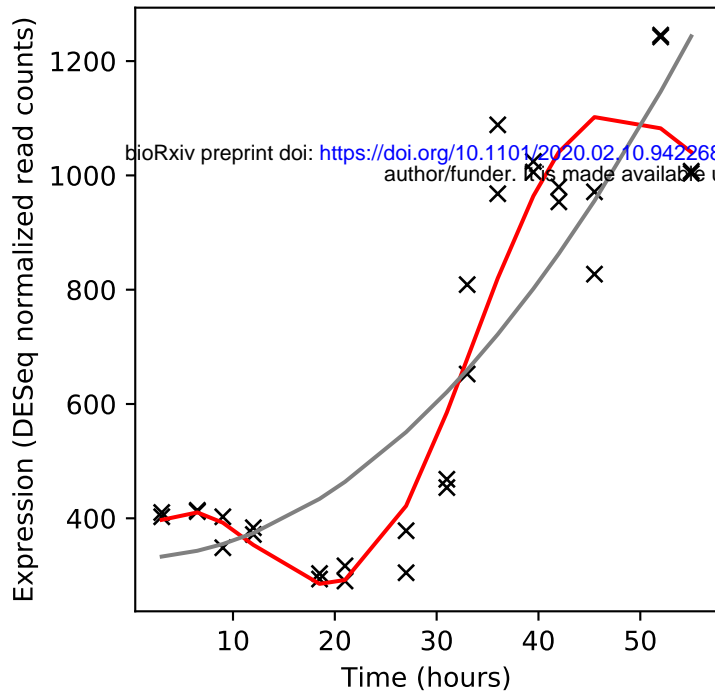
Rv1730c/-



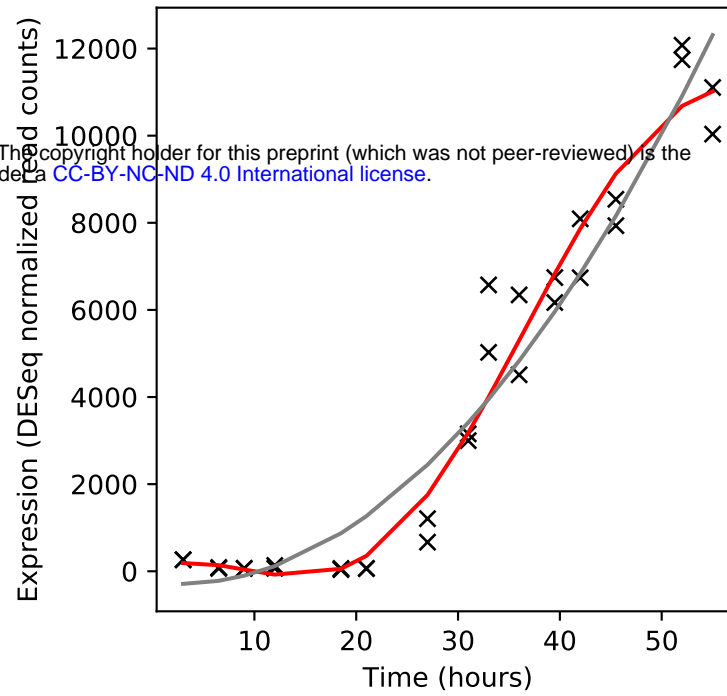
Rv1731/gabD2



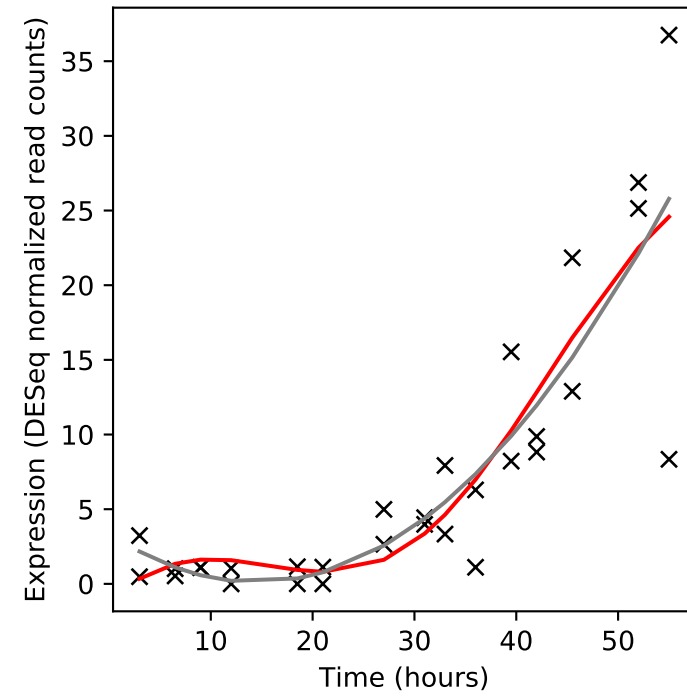
Rv1732c/-



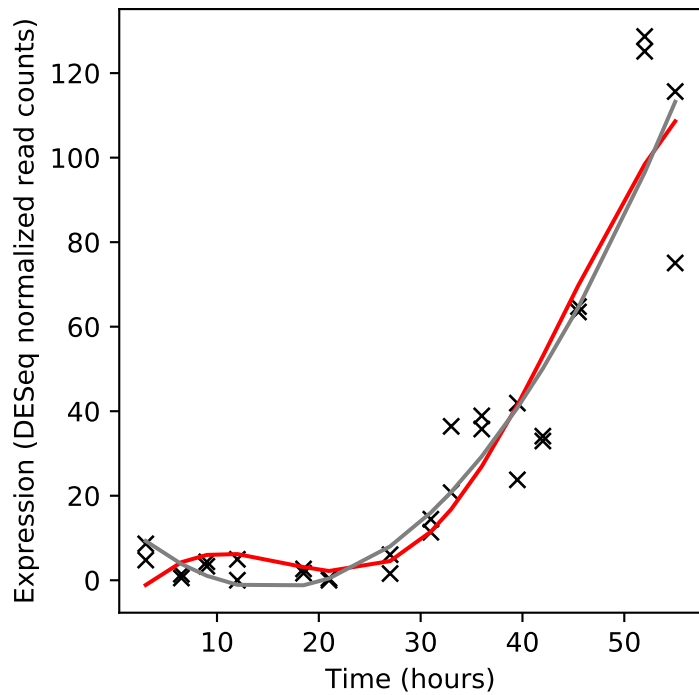
Rv1733c/-



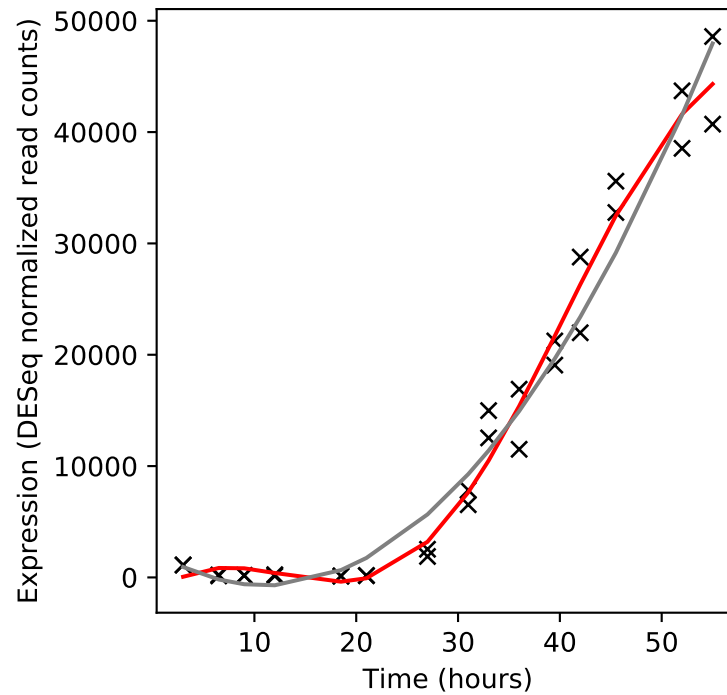
Rv1734c/-



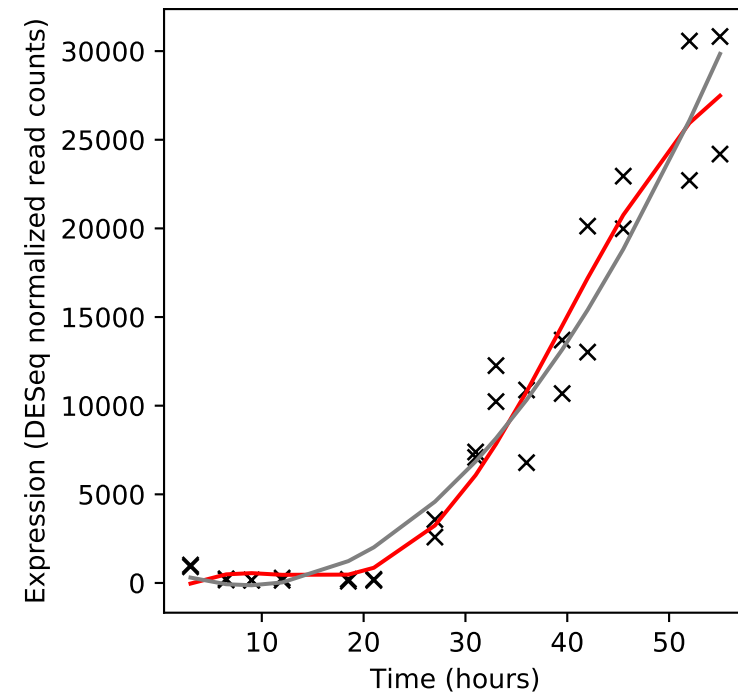
Rv1735c/-



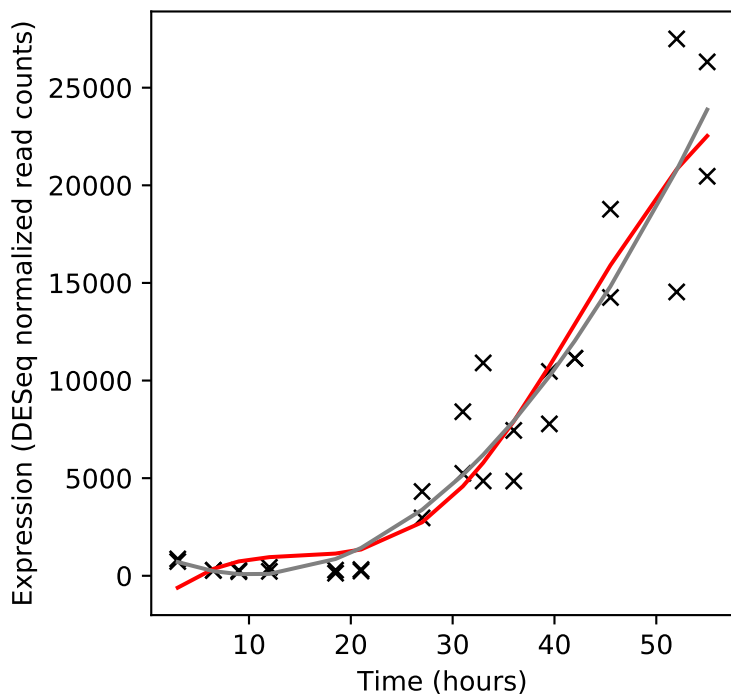
Rv1736c/narX



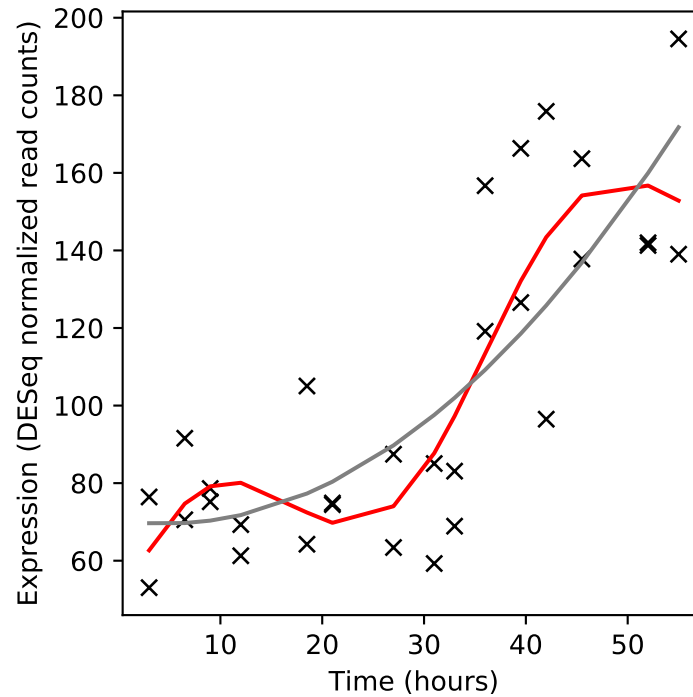
Rv1737c/narK2



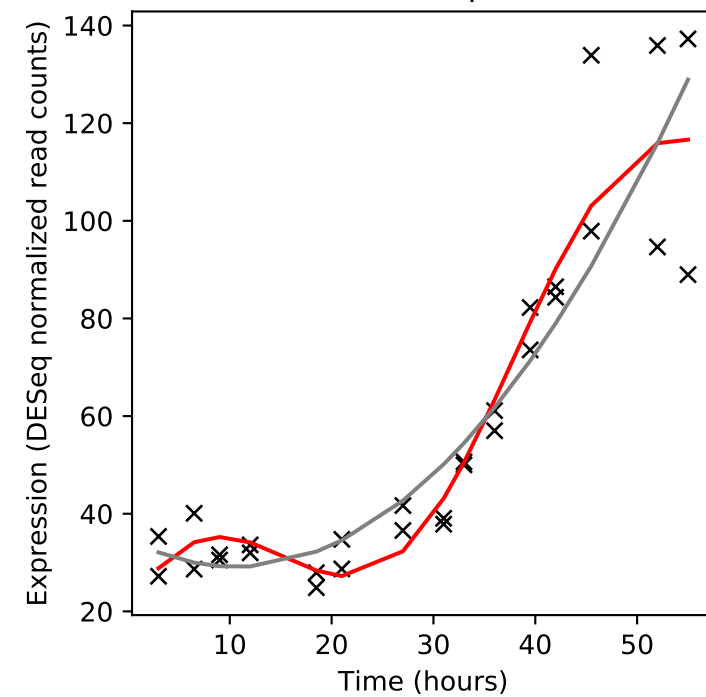
Rv1738/-



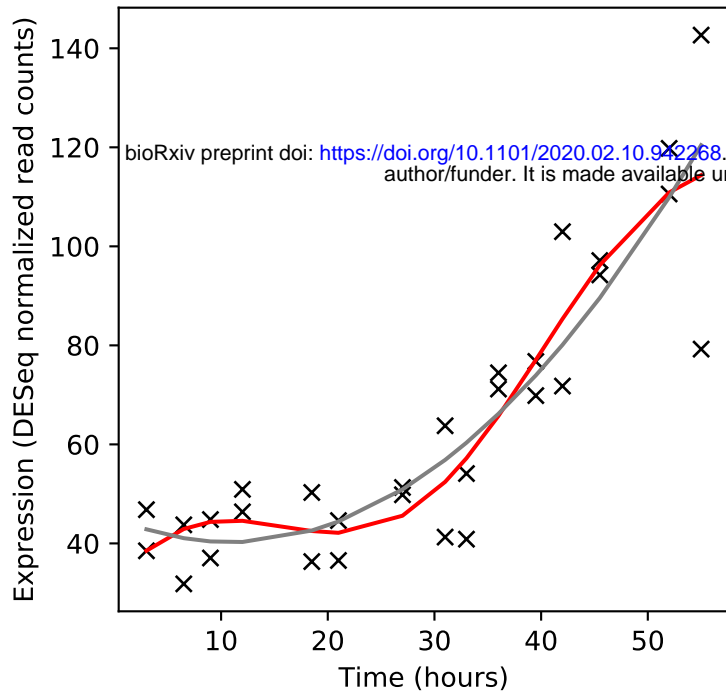
Rv1739c/-



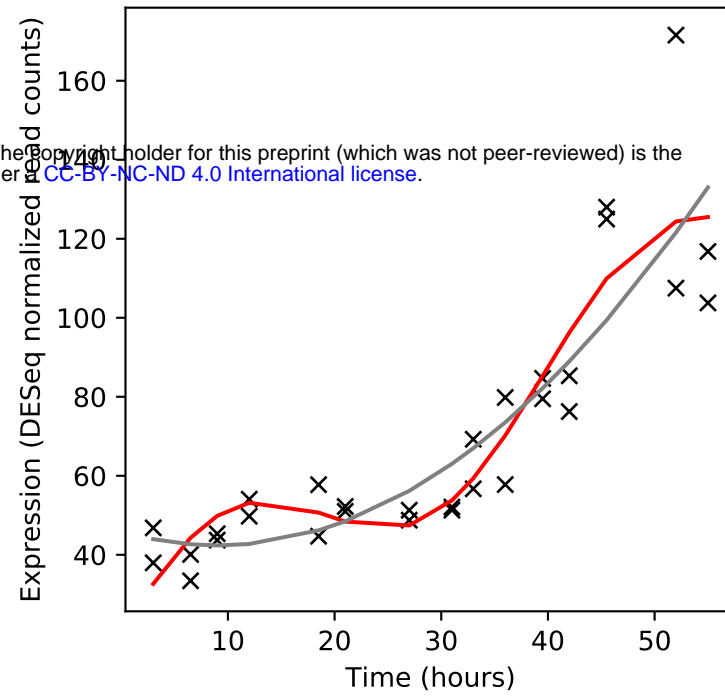
Rv1740/vapB34



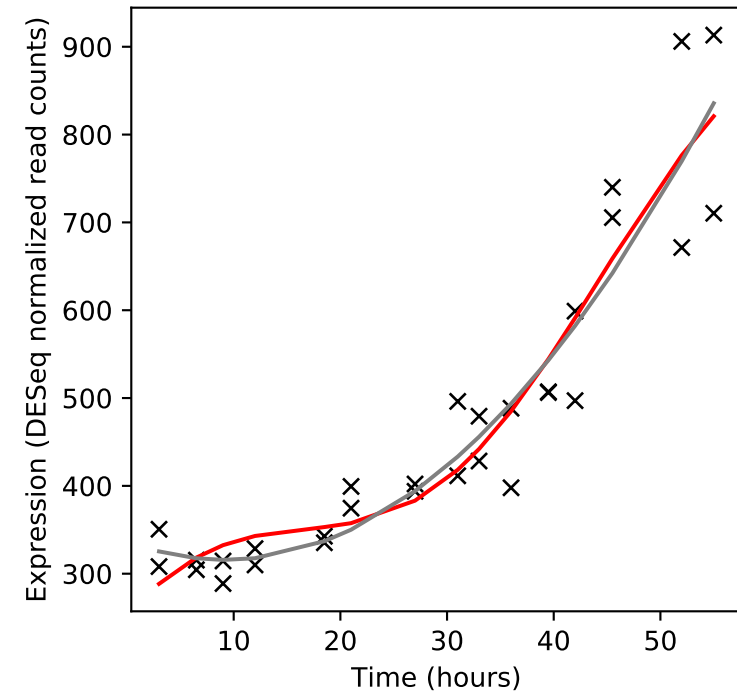
Rv1741/vapC34



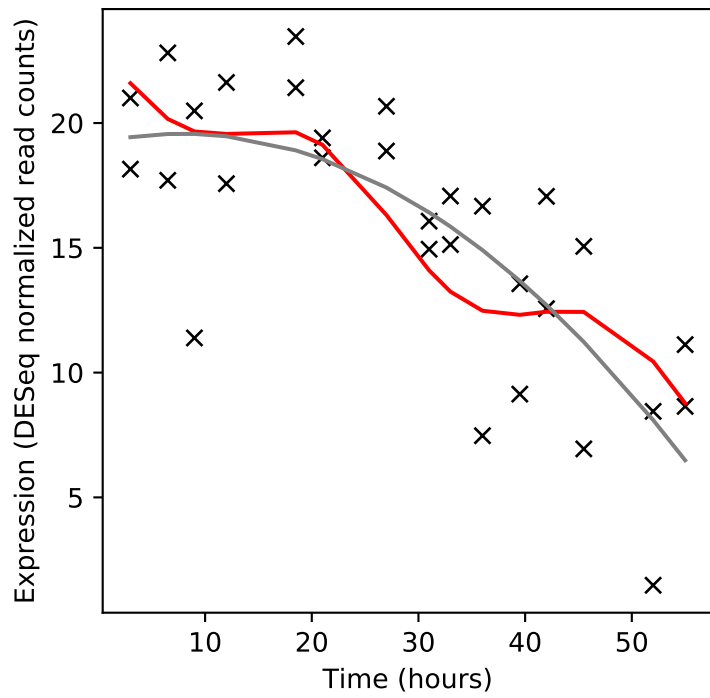
Rv1742/-



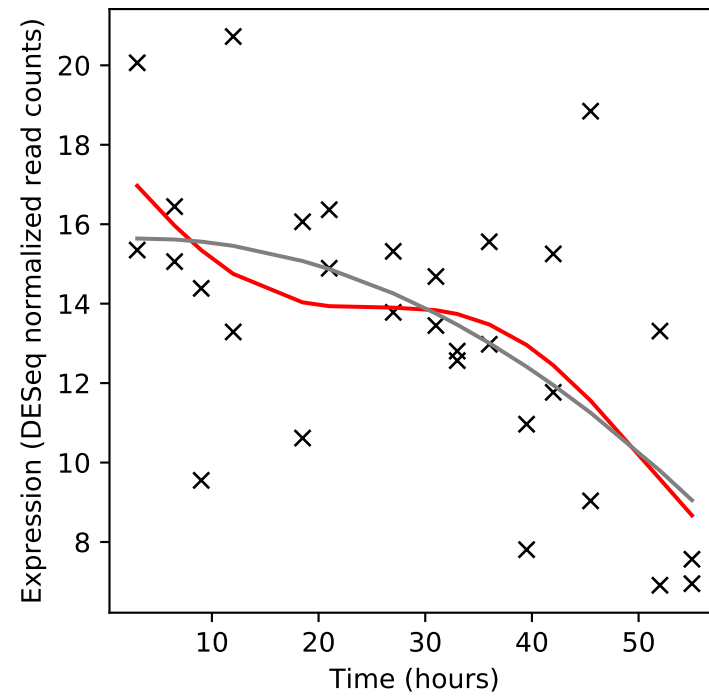
Rv1743/pknE



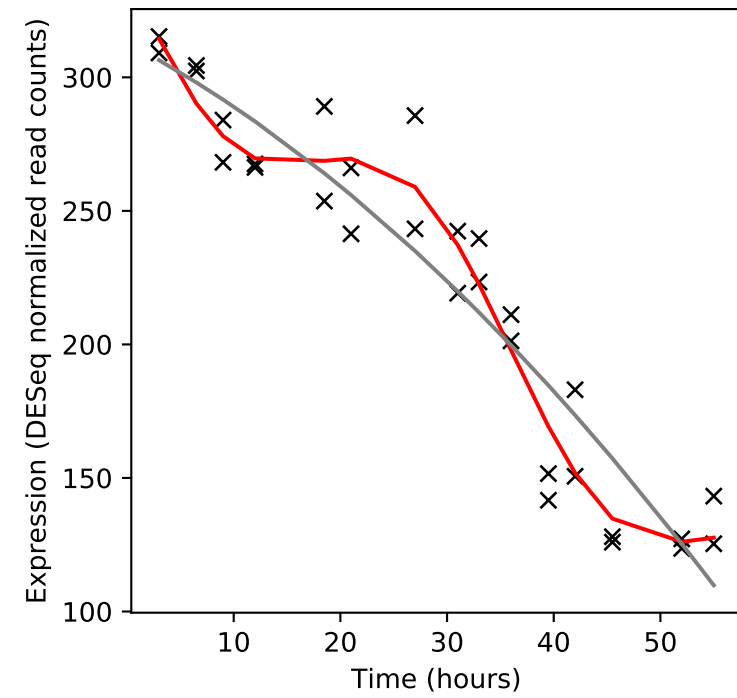
Rv1744c/-



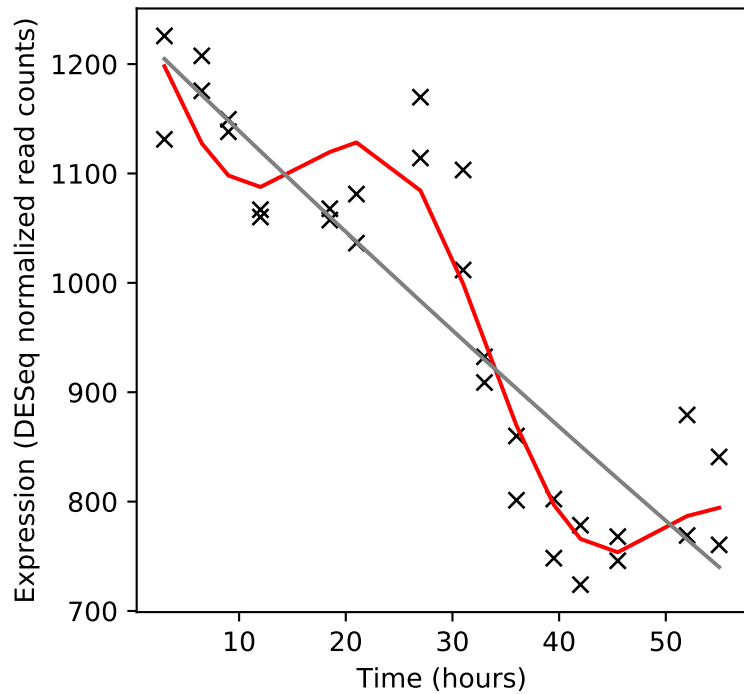
Rv1745c/idi



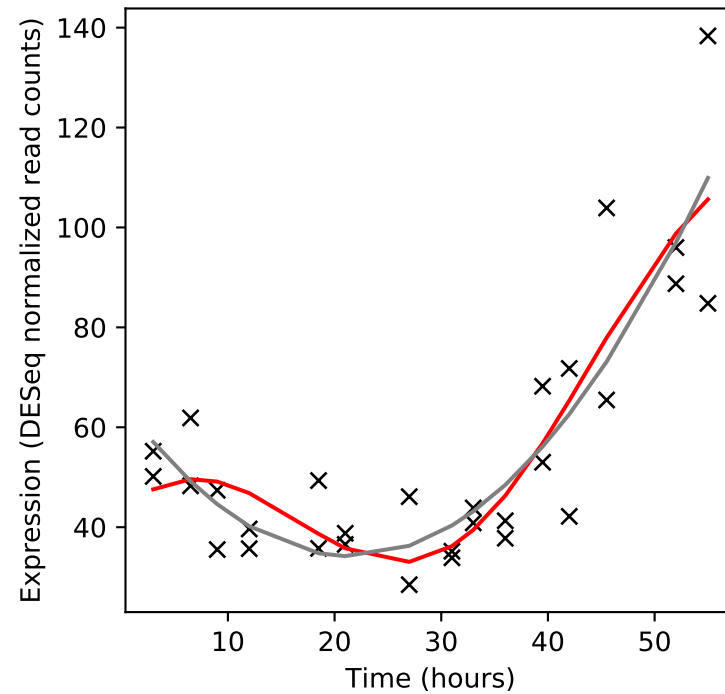
Rv1746/pknF



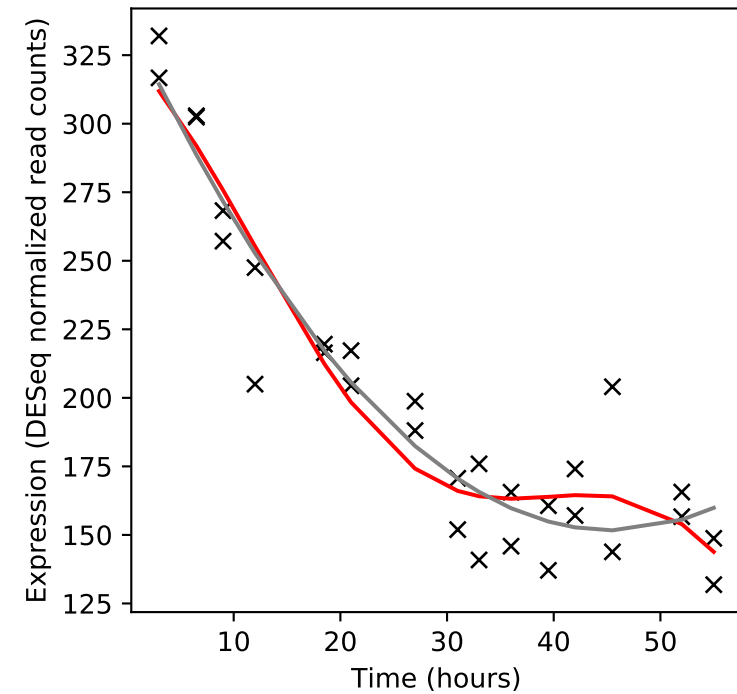
Rv1747/-



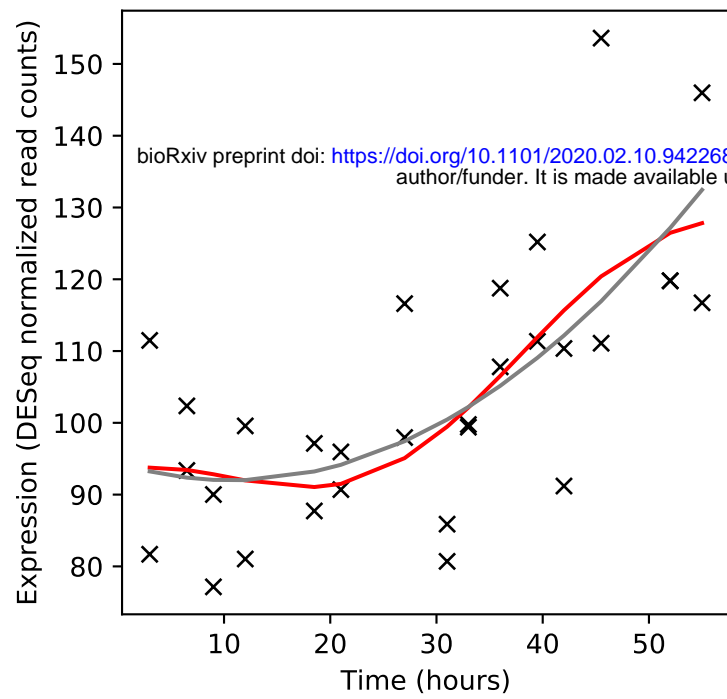
Rv1748/-



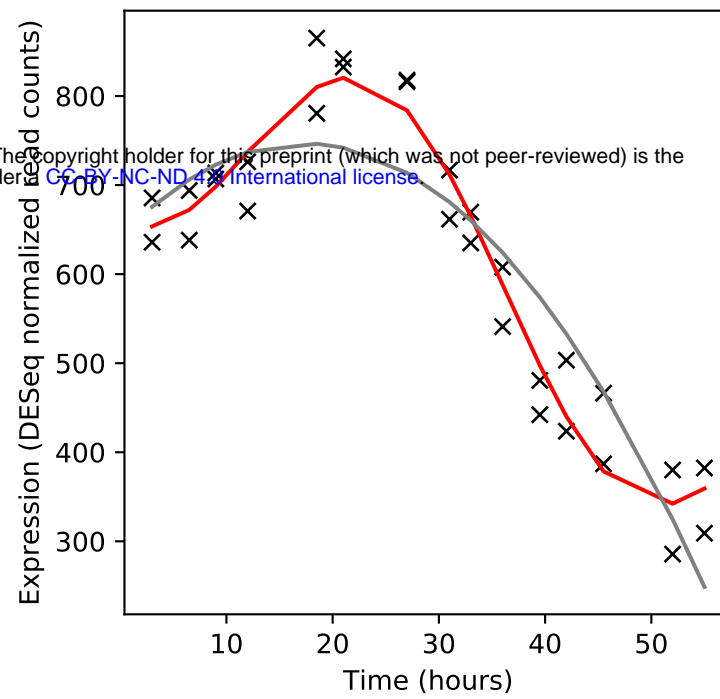
Rv1749c/-



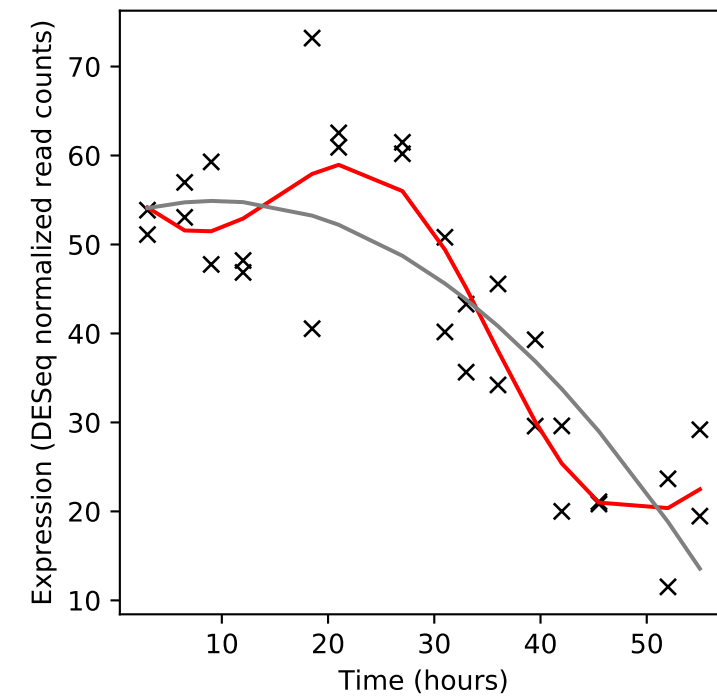
Rv1750c/fadD1



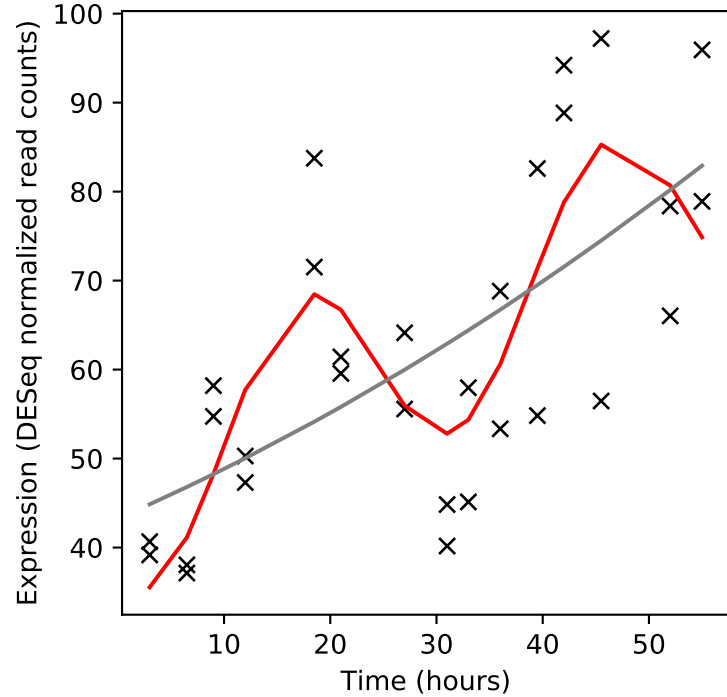
Rv1751/-



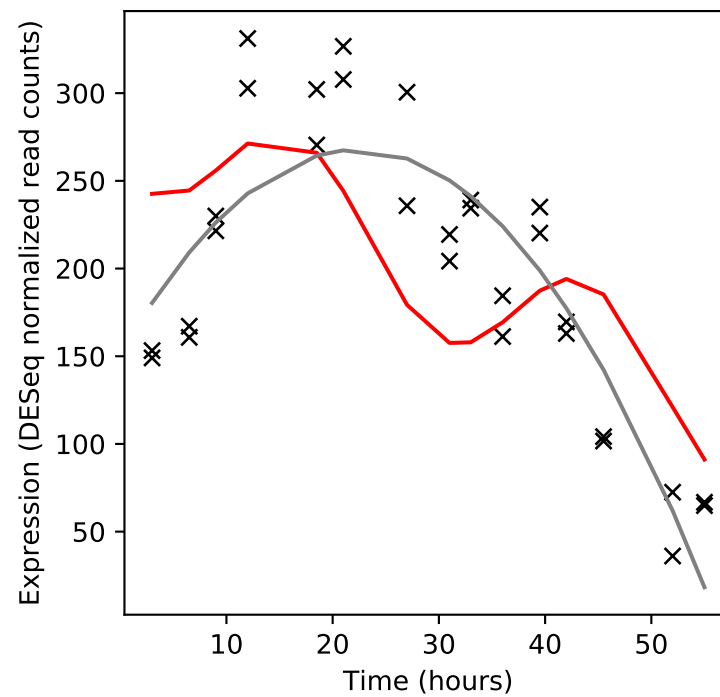
Rv1752/-



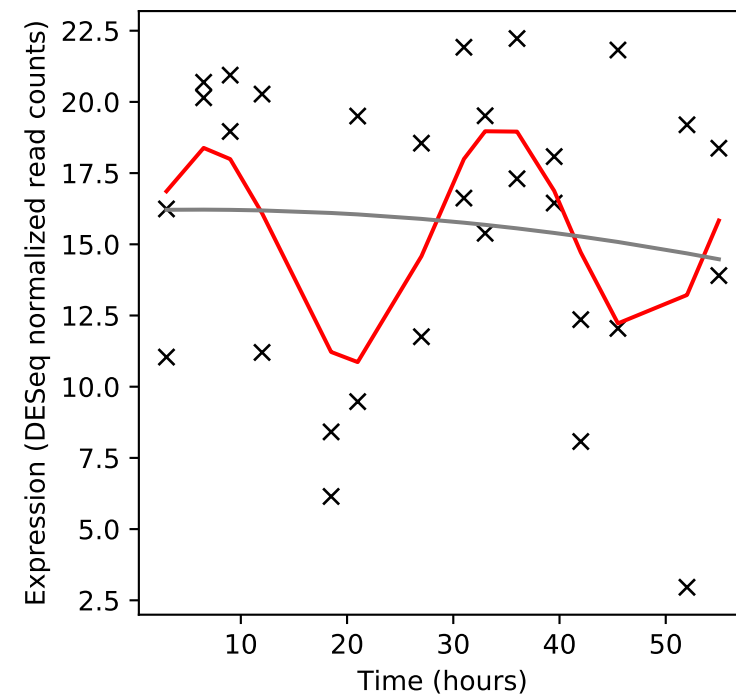
Rv1753c/PPE24



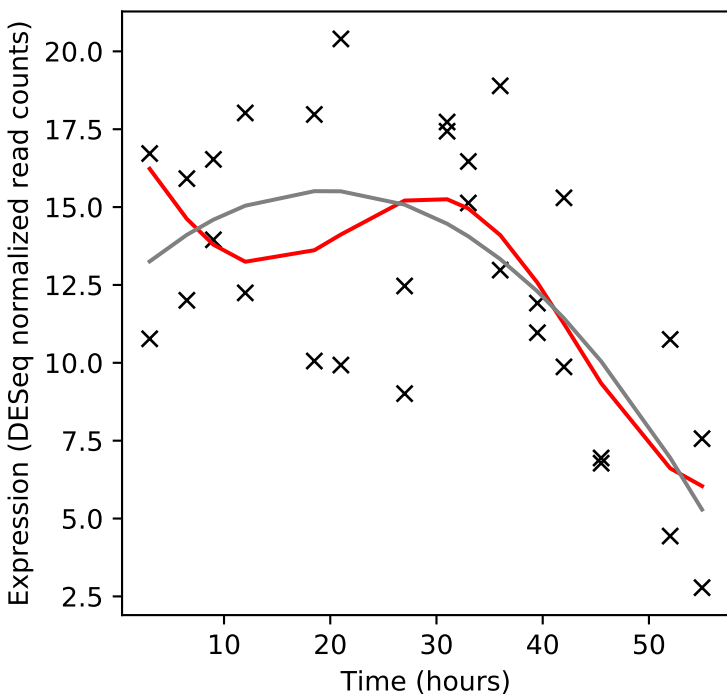
Rv1754c/-



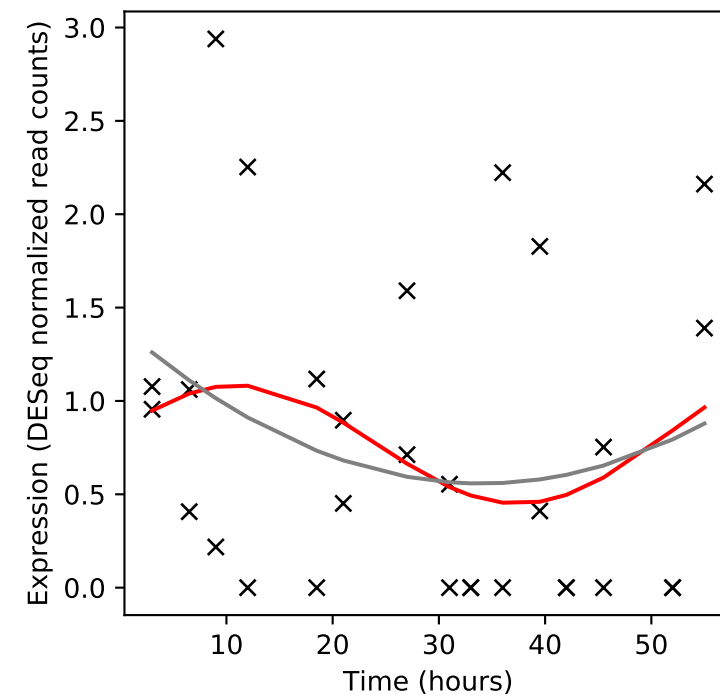
Rv1756c/-



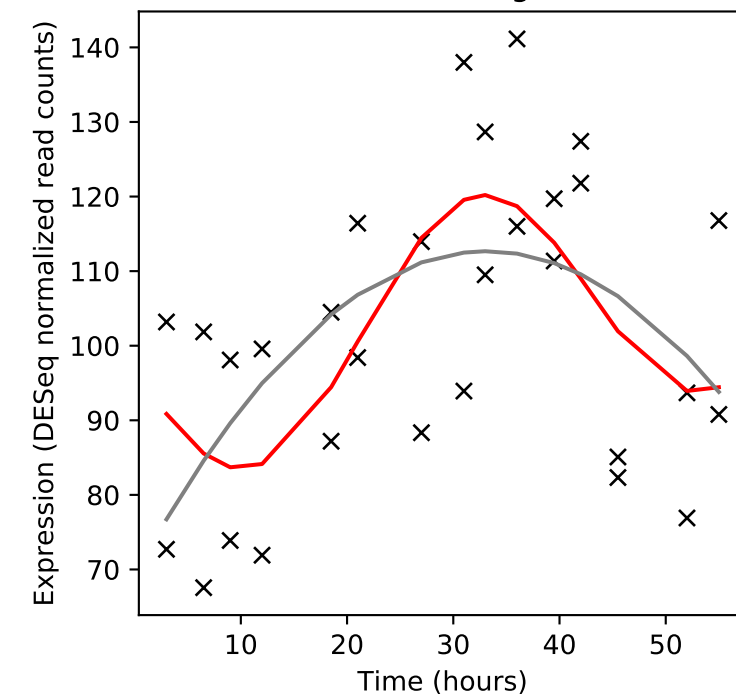
Rv1757c/-



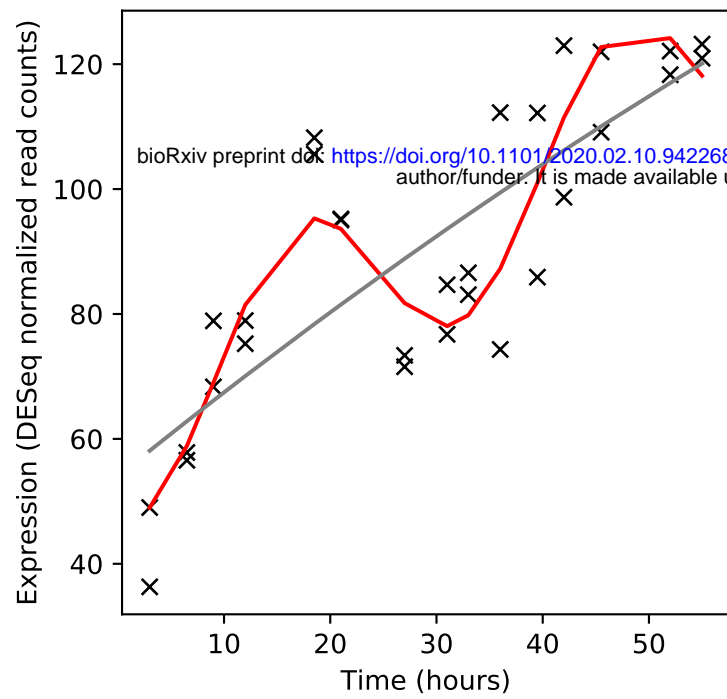
Rv1758/cut1



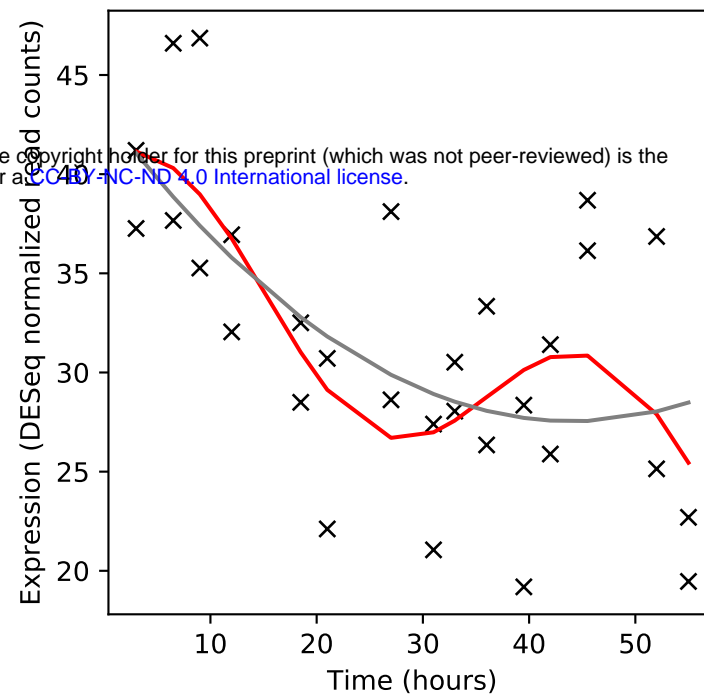
Rv1759c/wag22



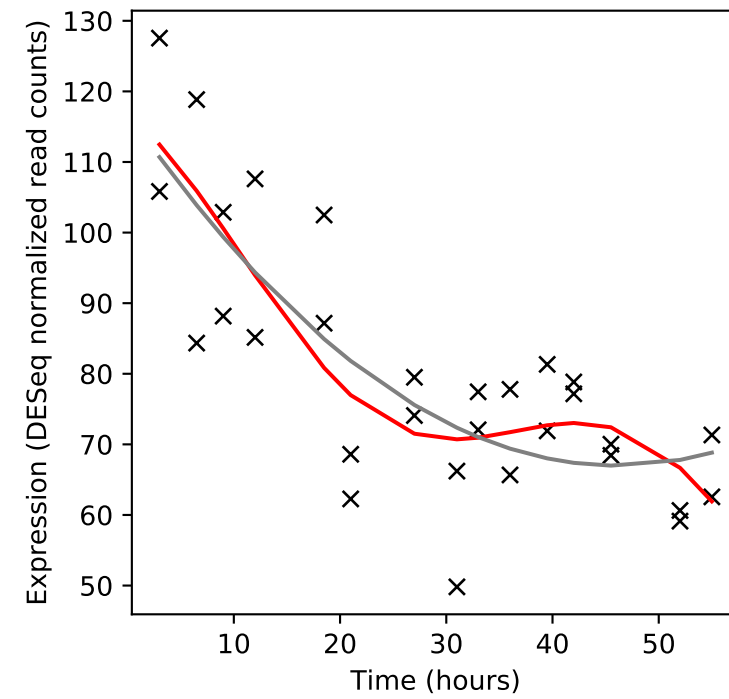
Rv1760/-



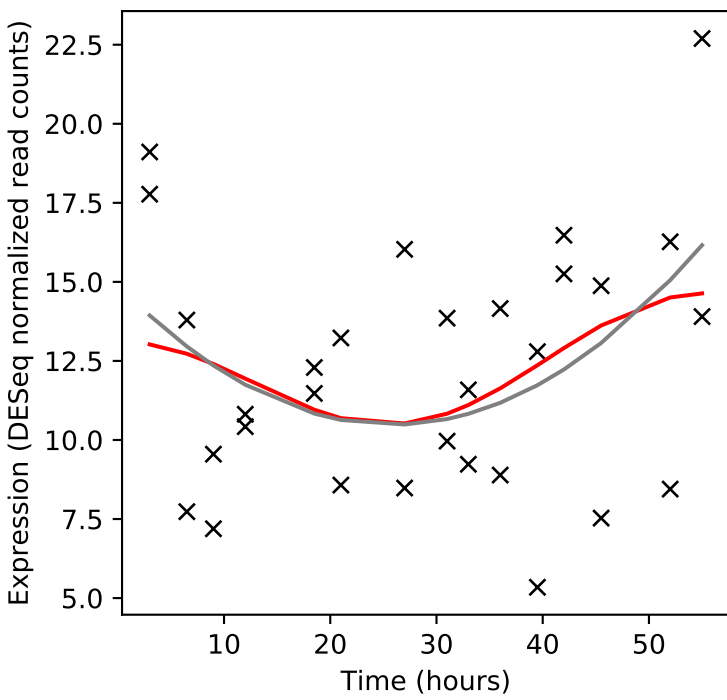
Rv1761c/-



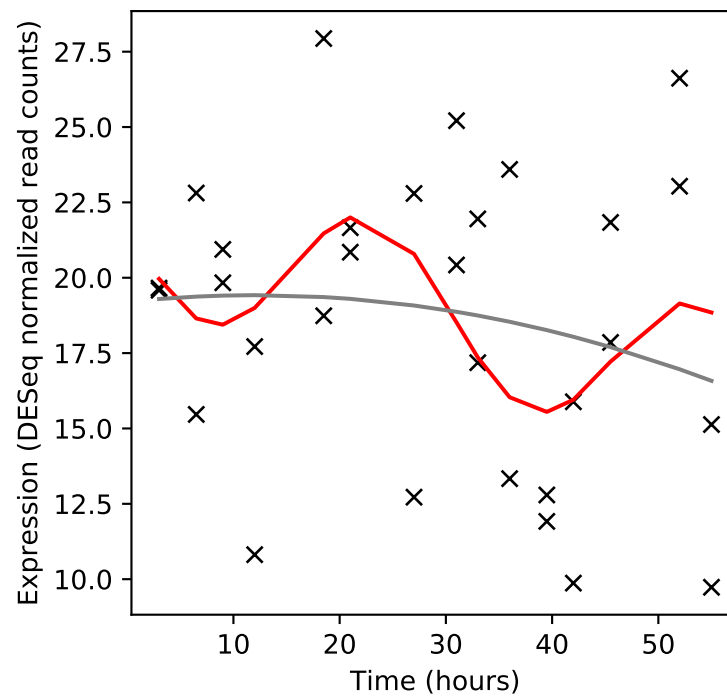
Rv1762c/-



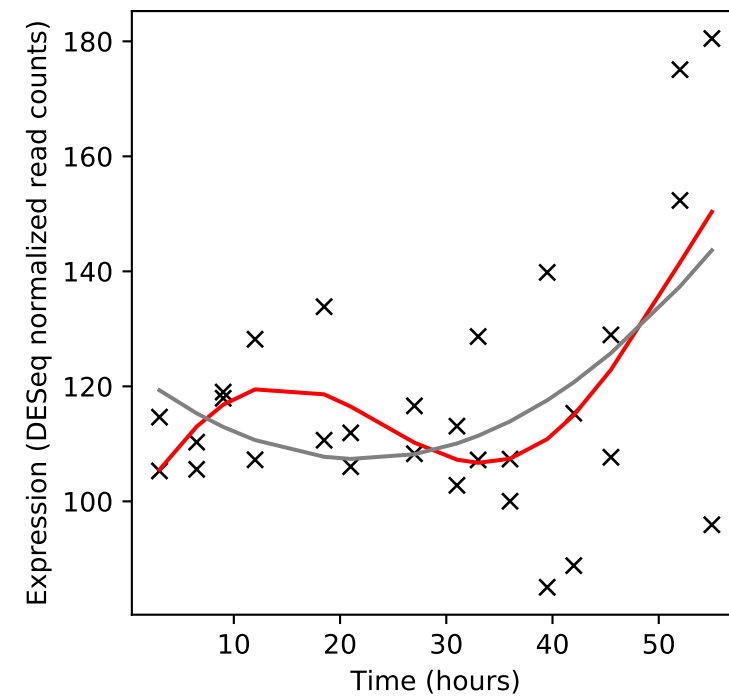
Rv1763/-



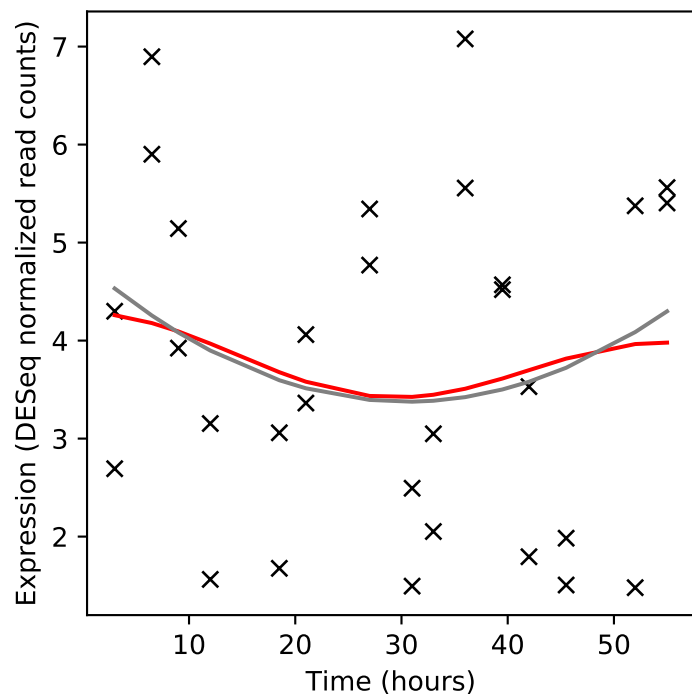
Rv1764/-



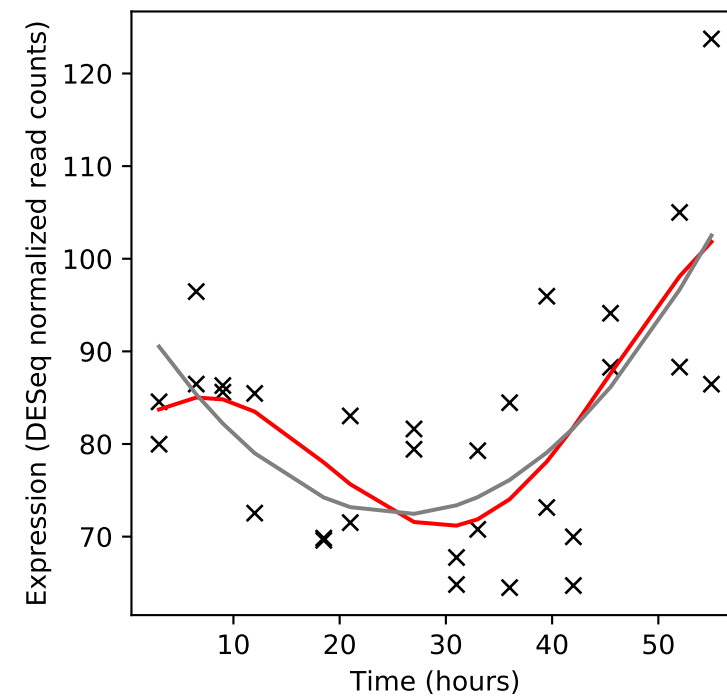
Rv1765c/-



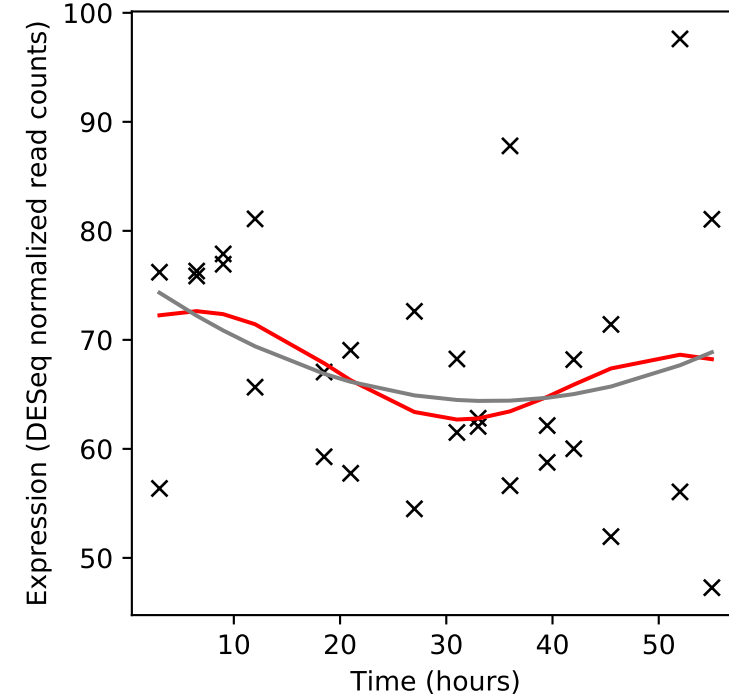
Rv1765A/-



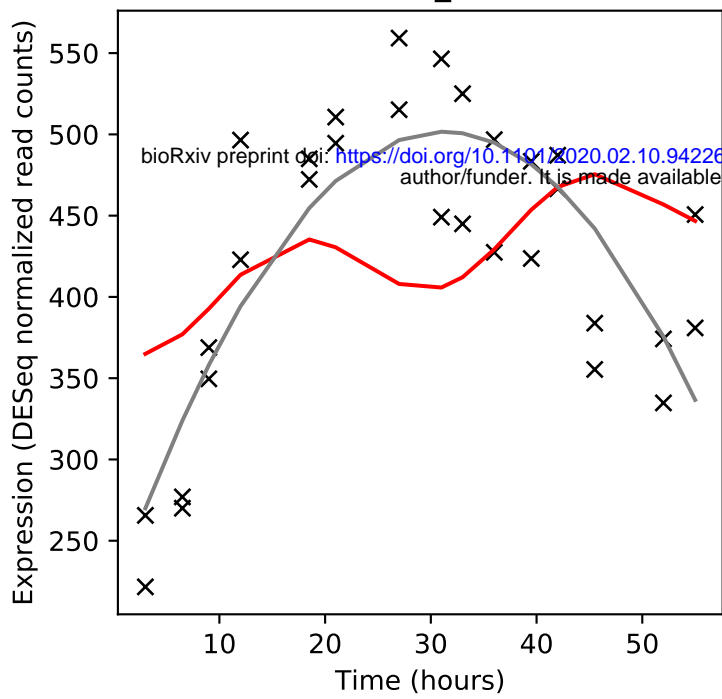
Rv1766/-



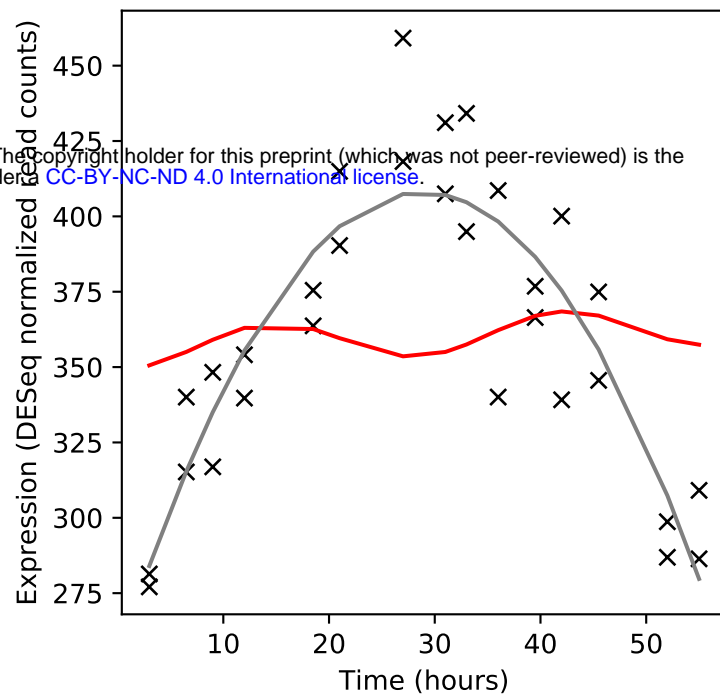
Rv1767/-



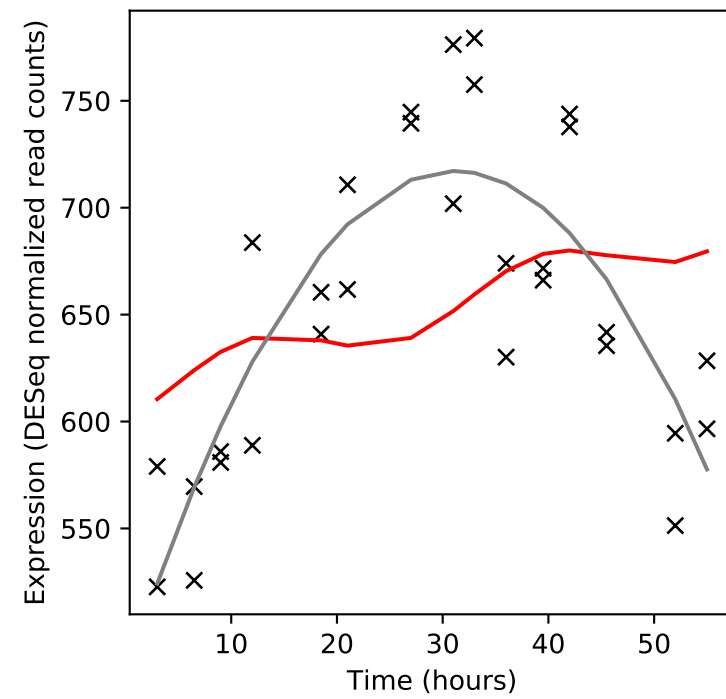
Rv1768/PE_PGRS31



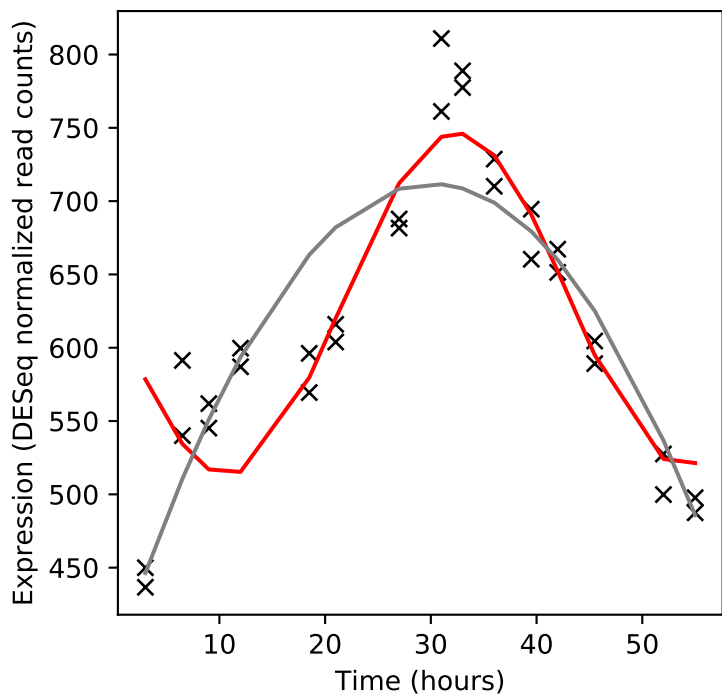
Rv1769/-



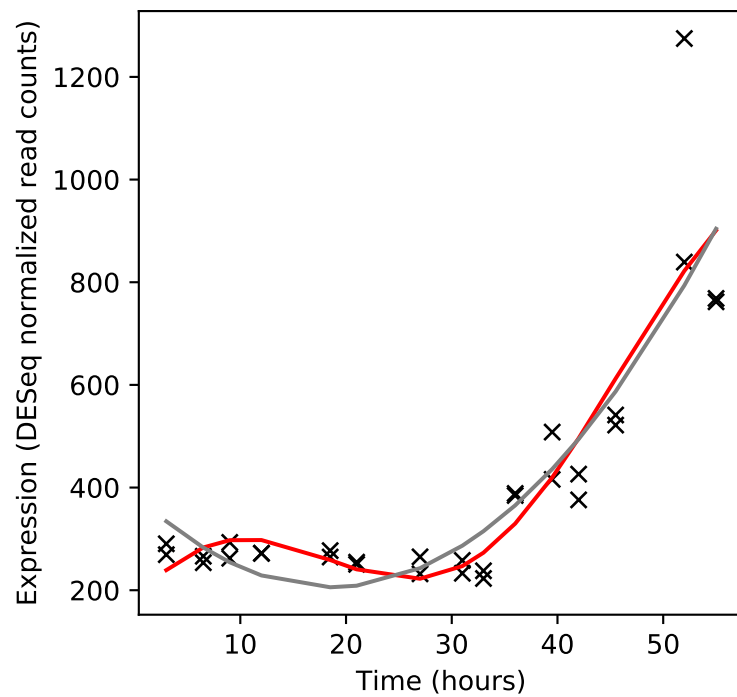
Rv1770/-



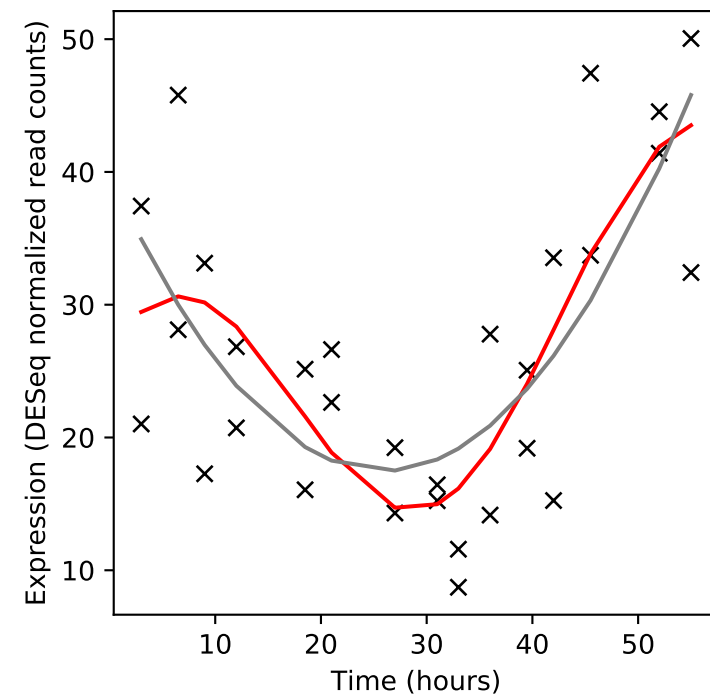
Rv1771/-



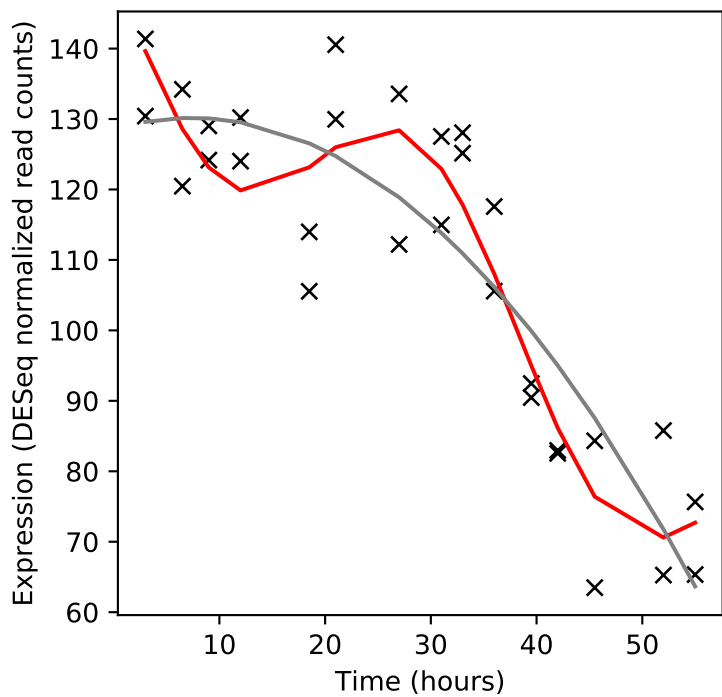
Rv1772/-



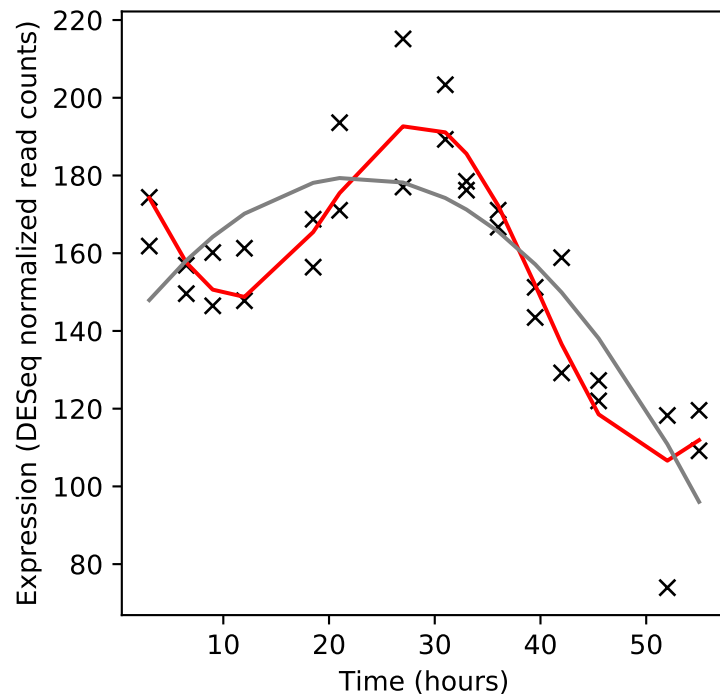
Rv1773c/-



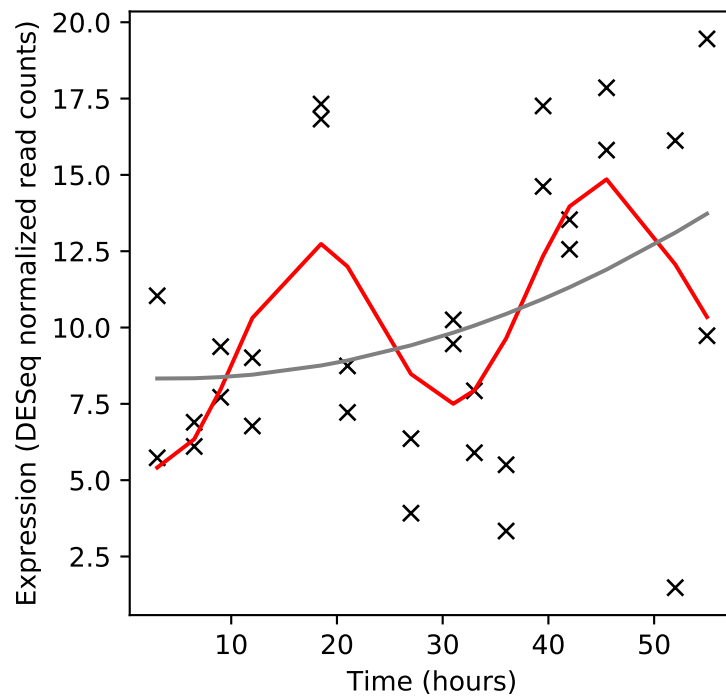
Rv1774/-



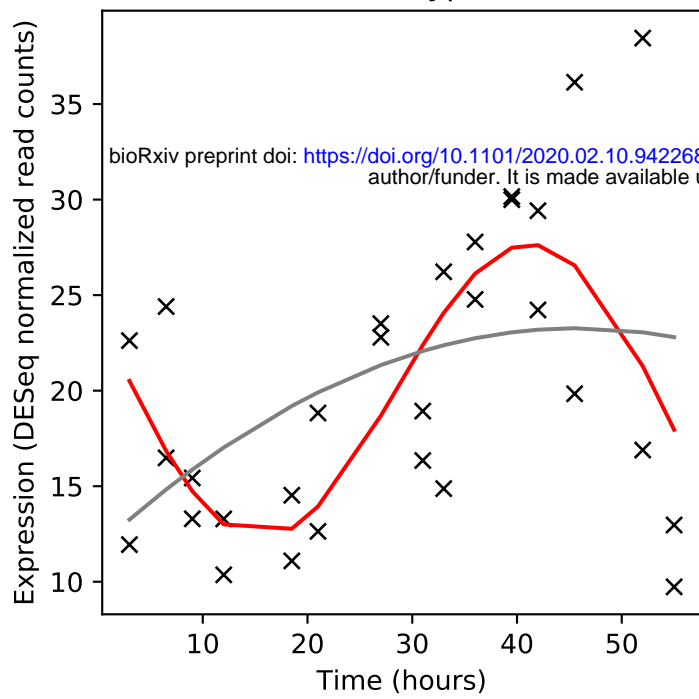
Rv1775/-



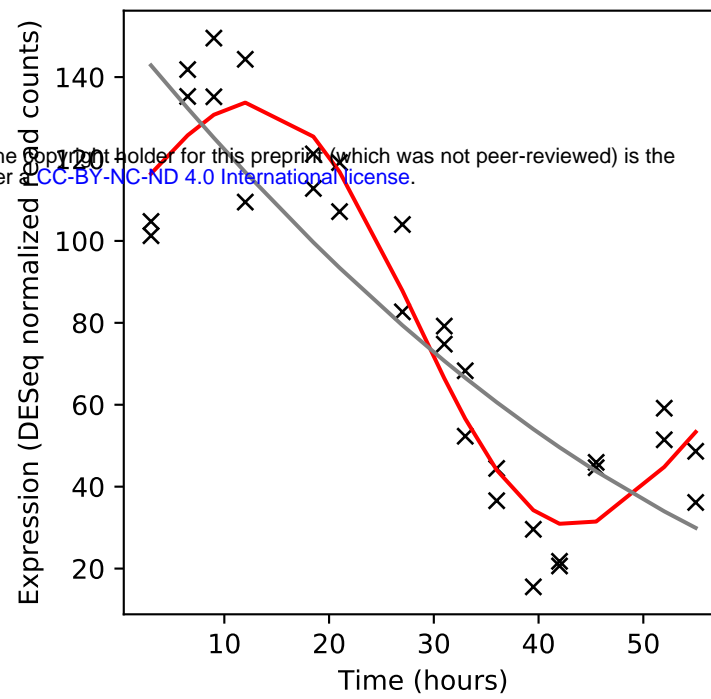
Rv1776c/-



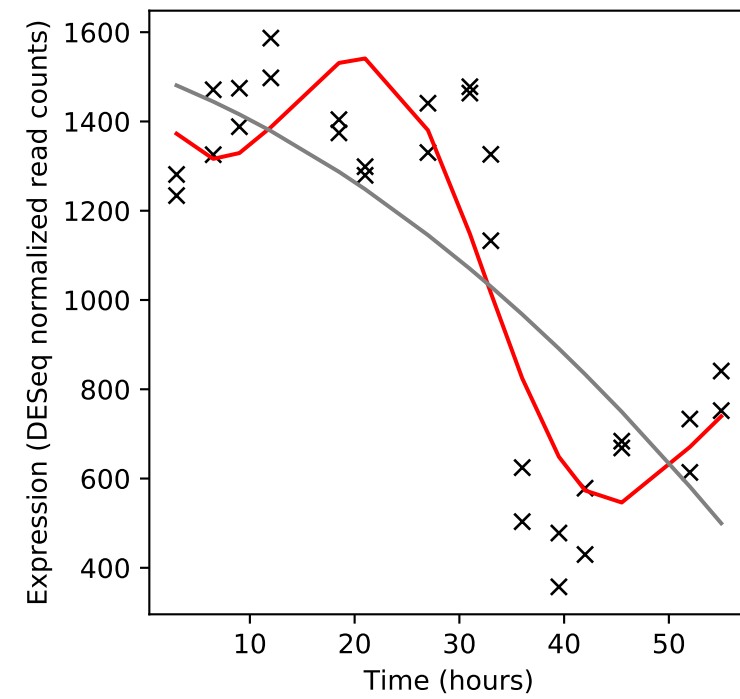
Rv1777/cyp144



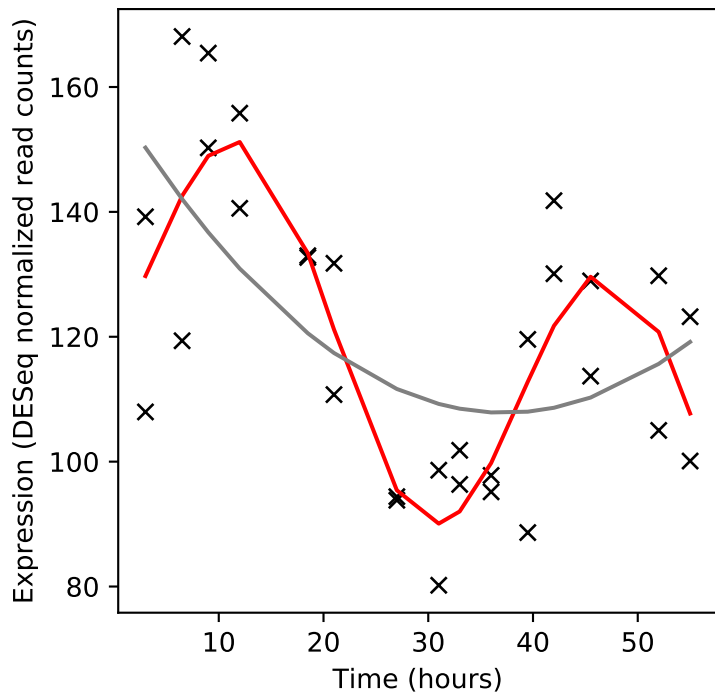
Rv1778c/-



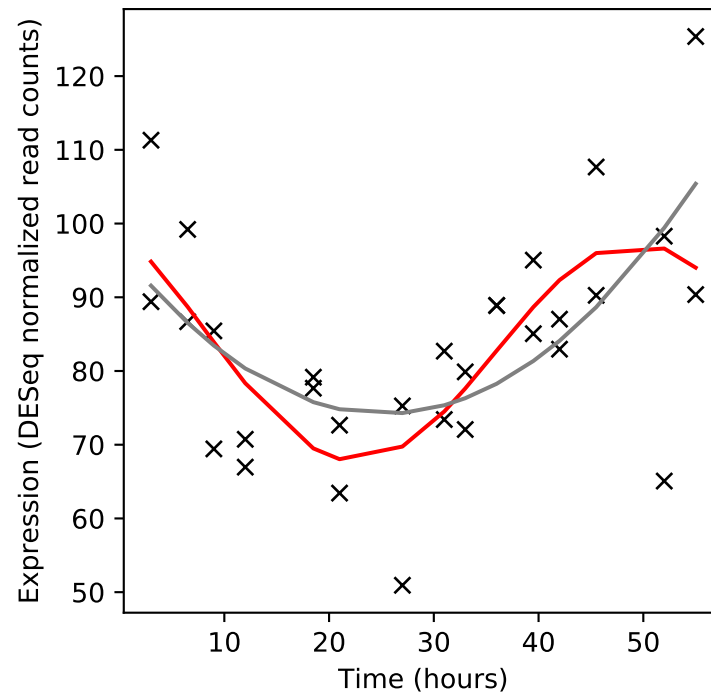
Rv1779c/-



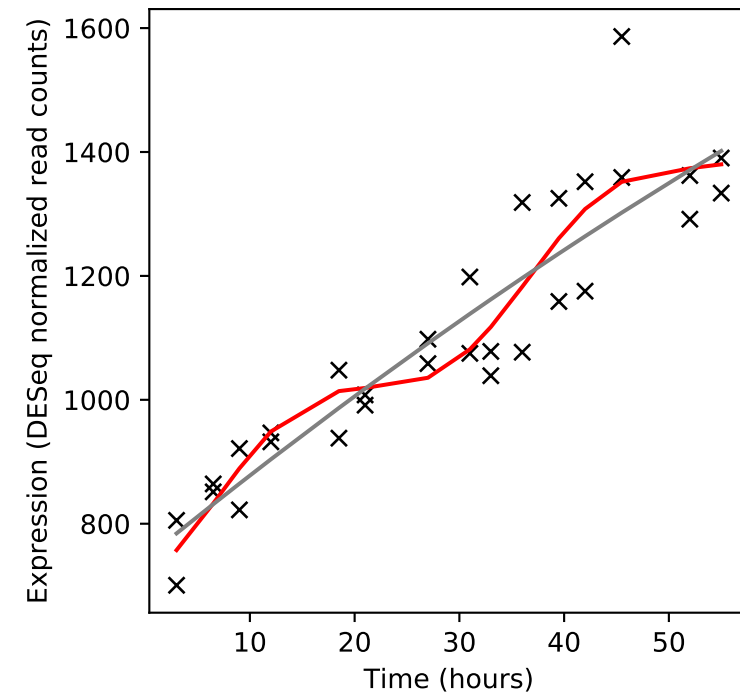
Rv1780/-



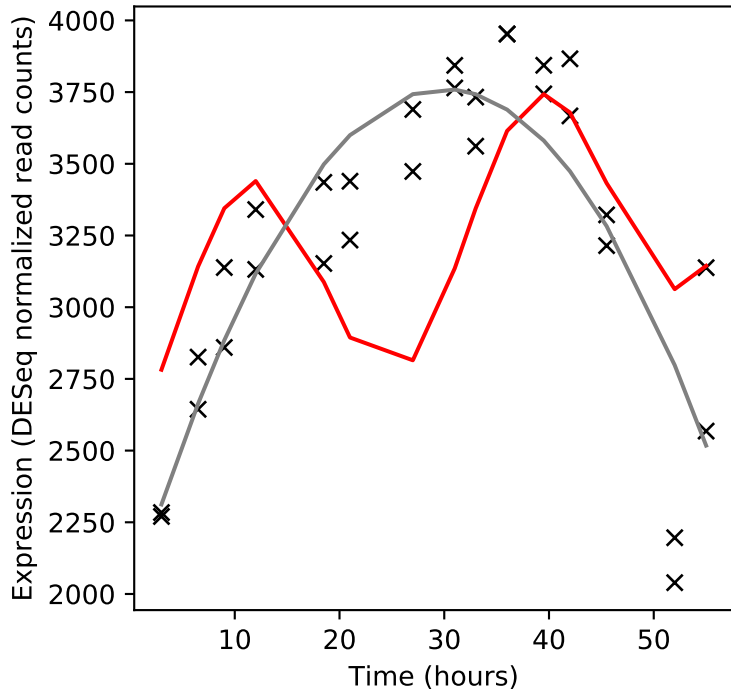
Rv1781c/malQ



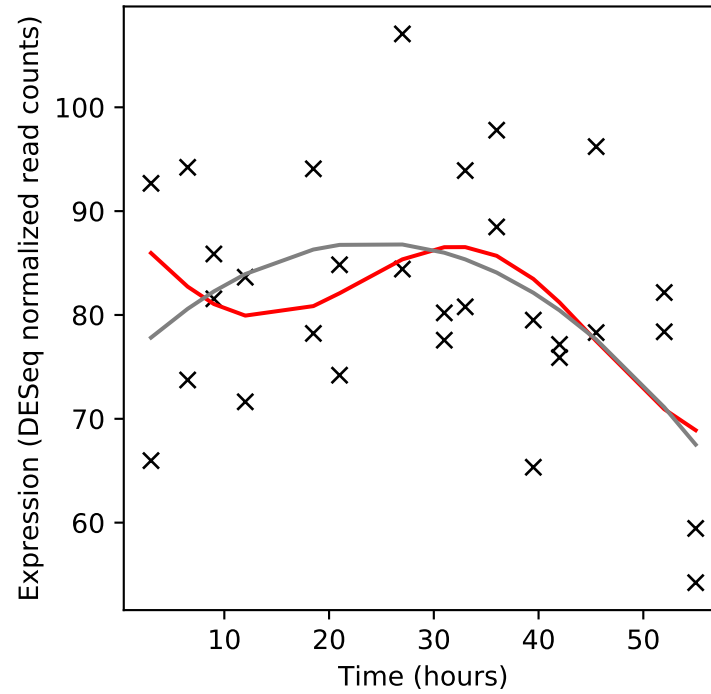
Rv1782/eccB5



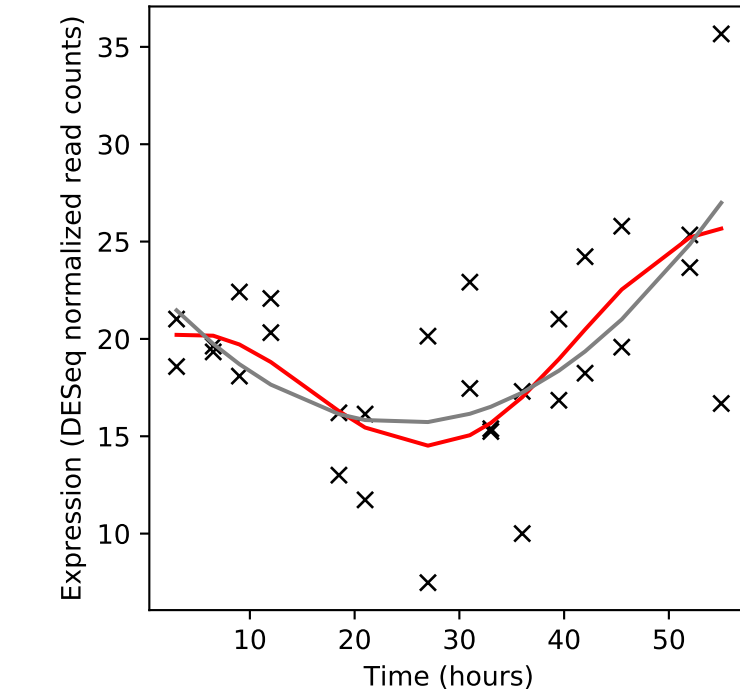
Rv1783/eccC5



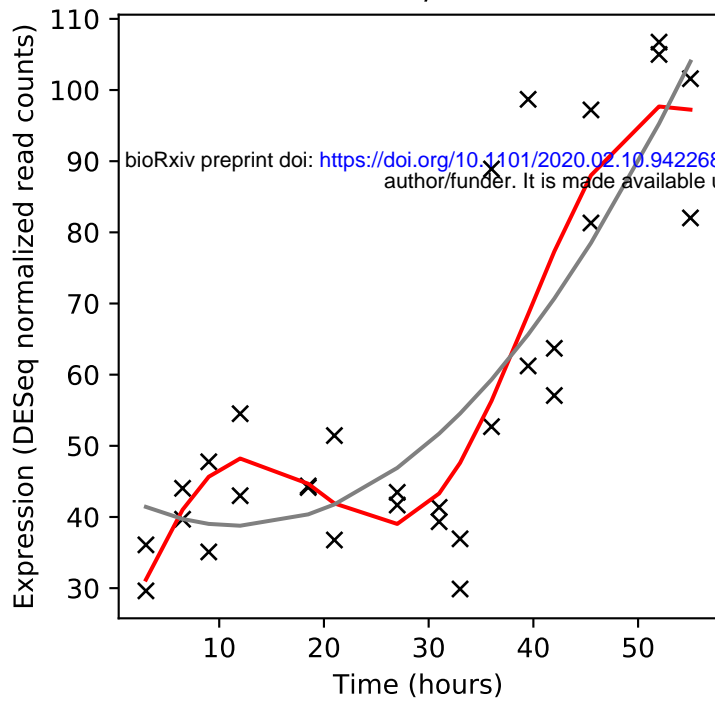
Rv1785c/cyp143



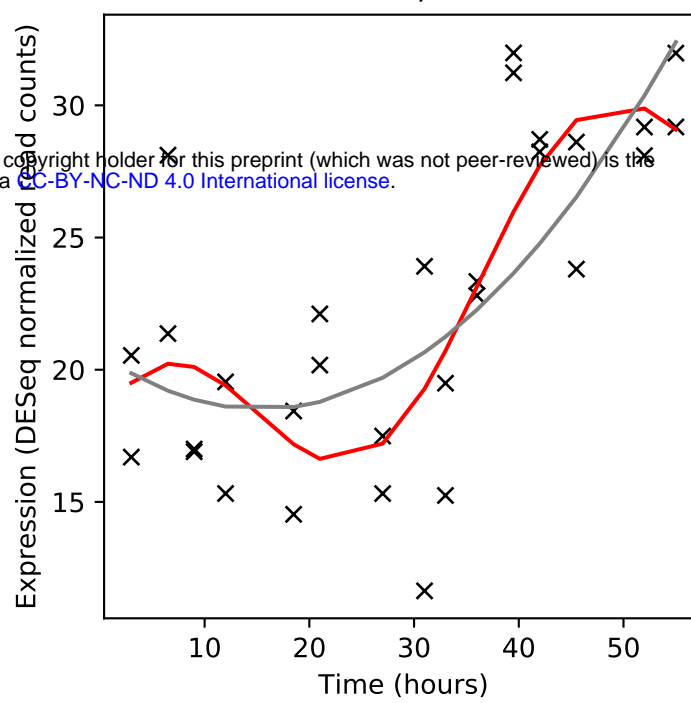
Rv1786/-



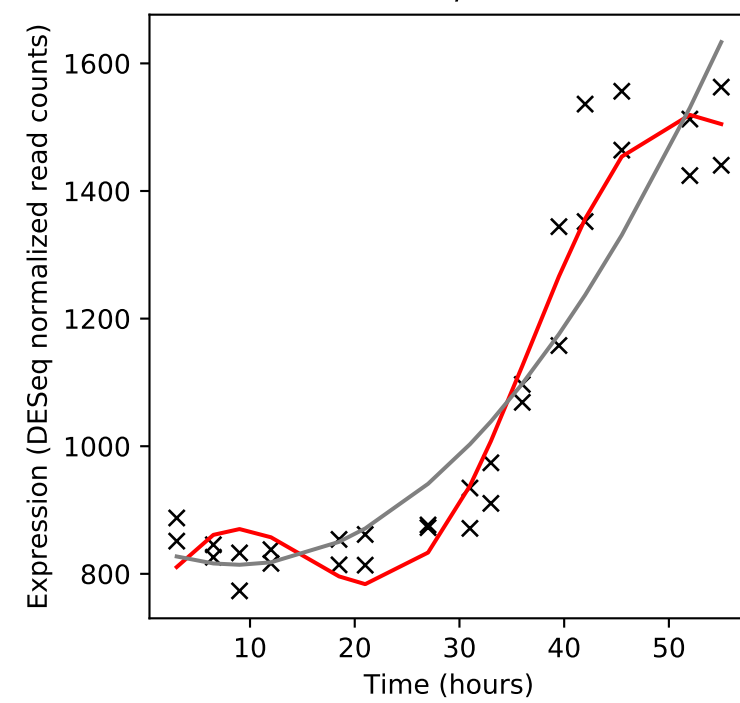
Rv1787/PPE25



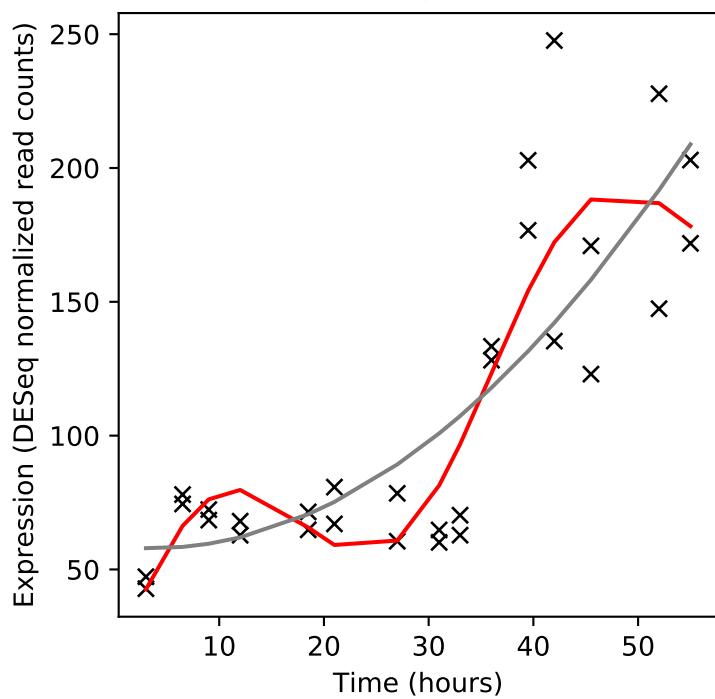
Rv1788/PE18



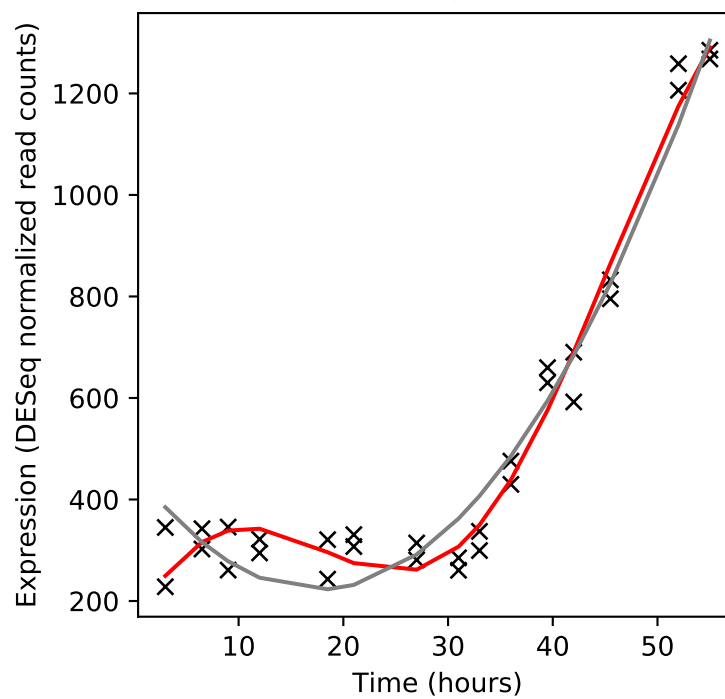
Rv1789/PPE26



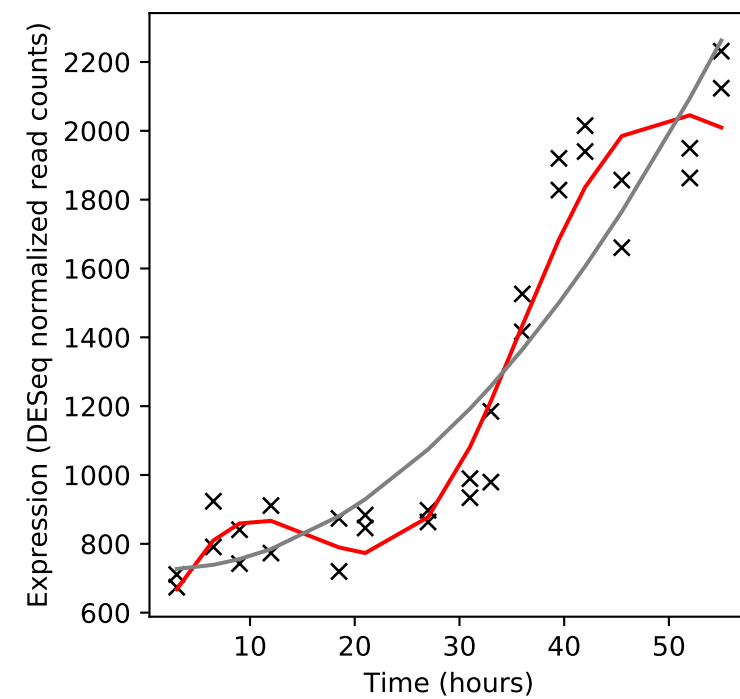
Rv1790/PPE27



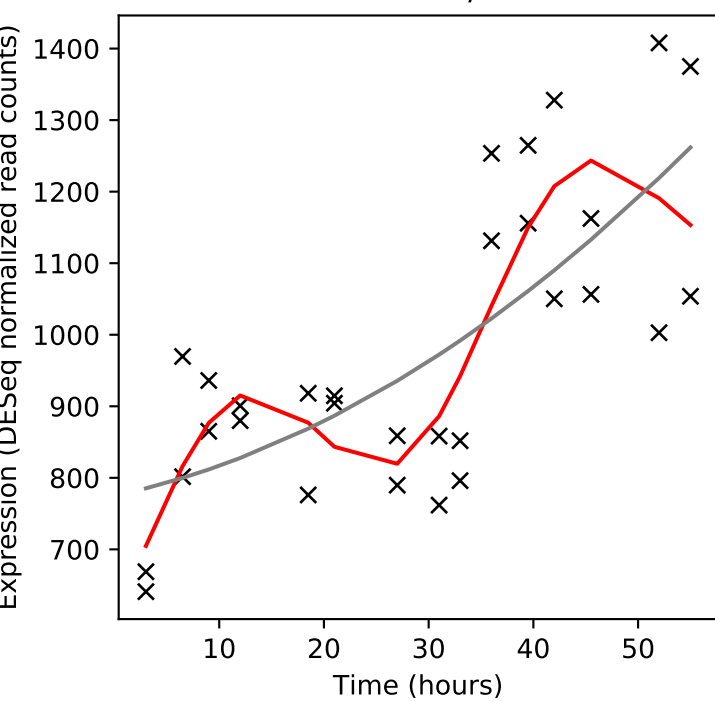
Rv1791/PE19



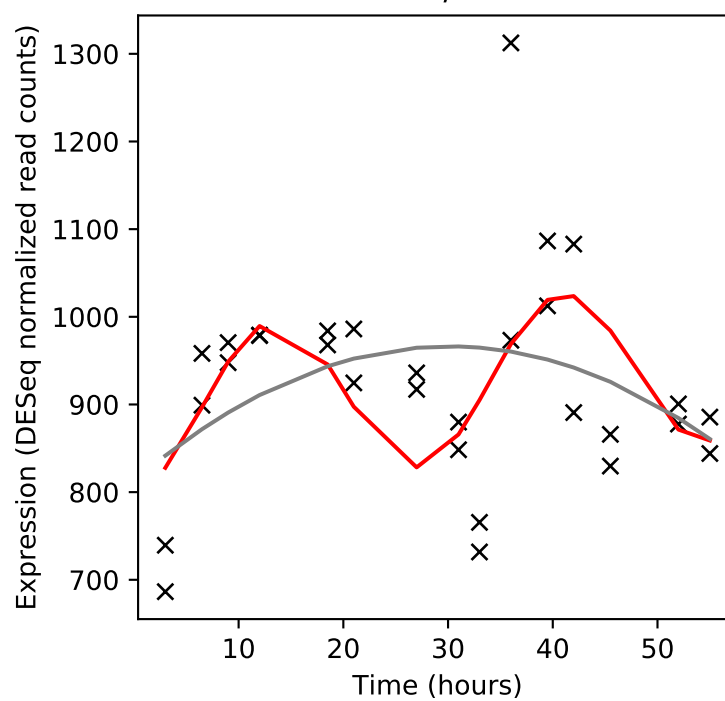
Rv1793/esxN



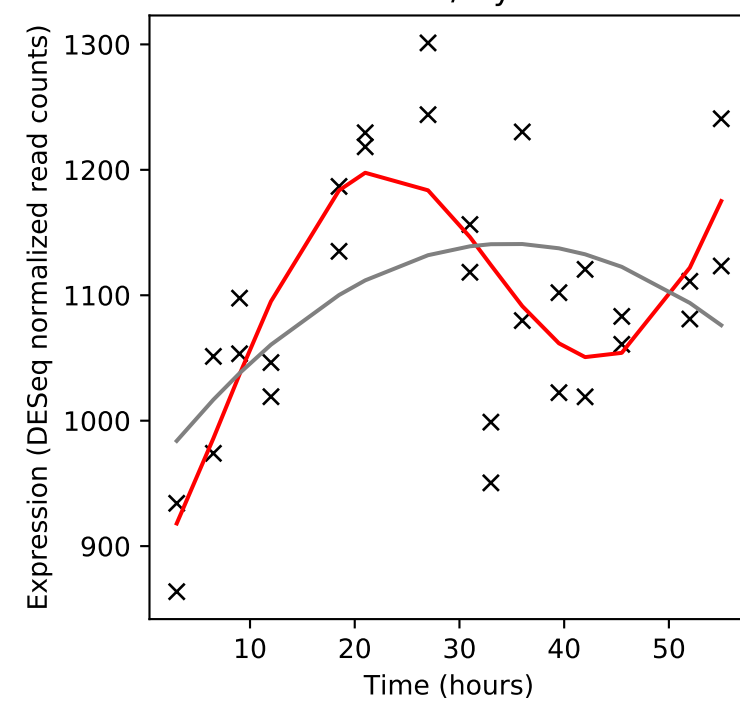
Rv1794/-



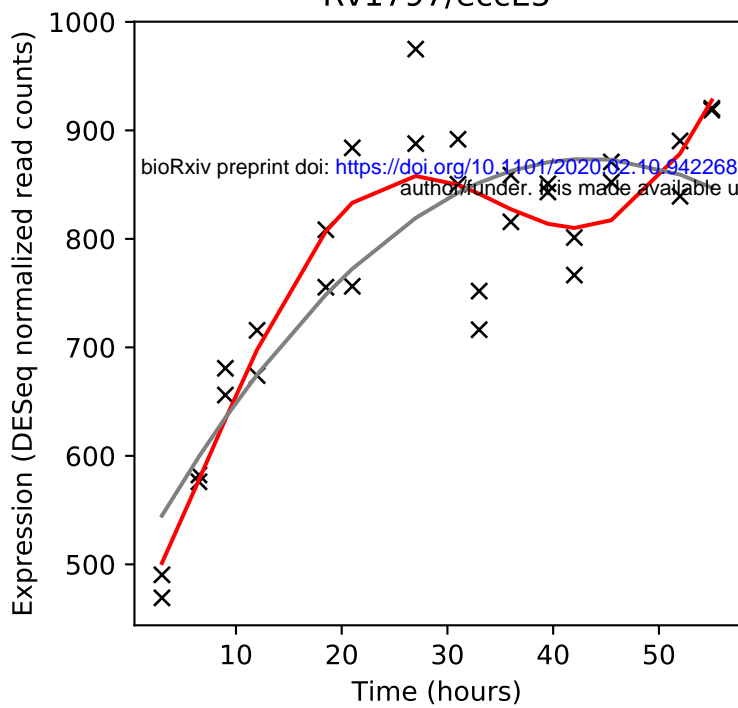
Rv1795/eccD5



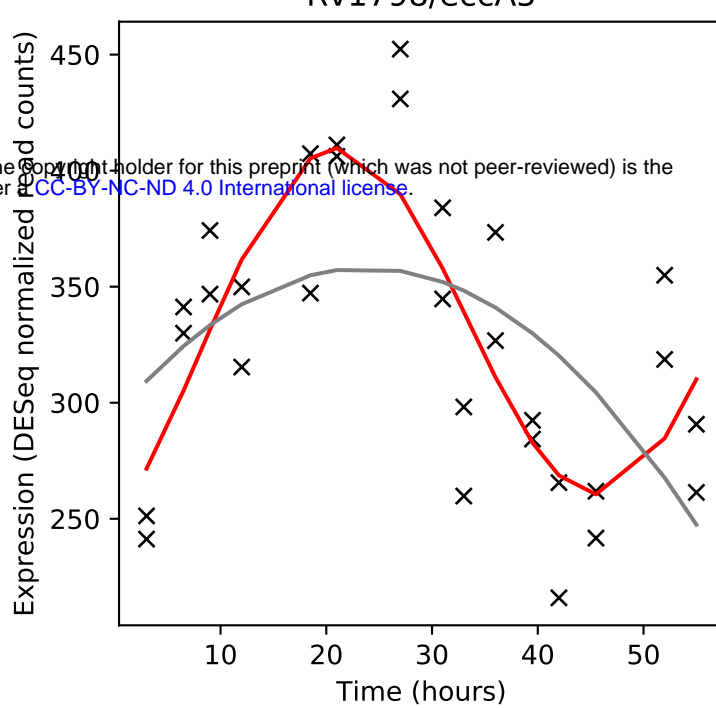
Rv1796/mycP5



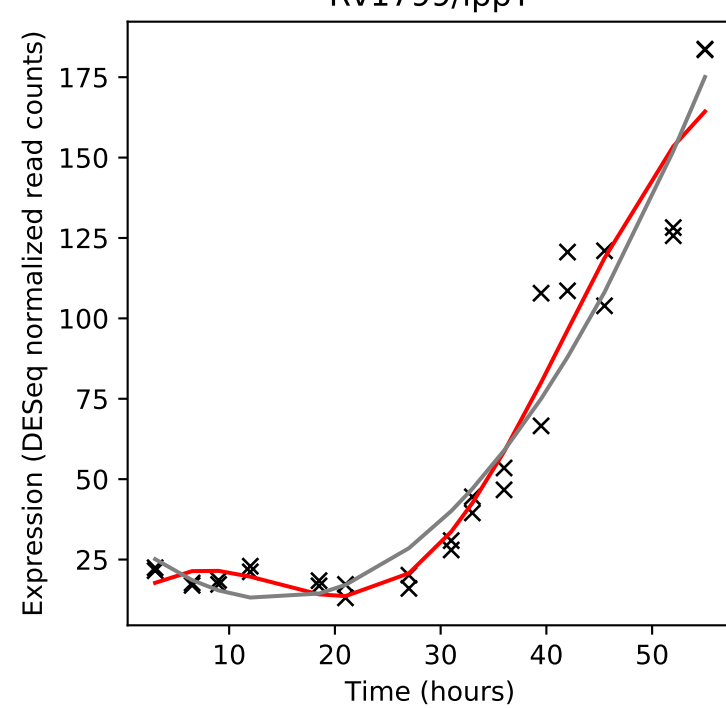
Rv1797/eccE5



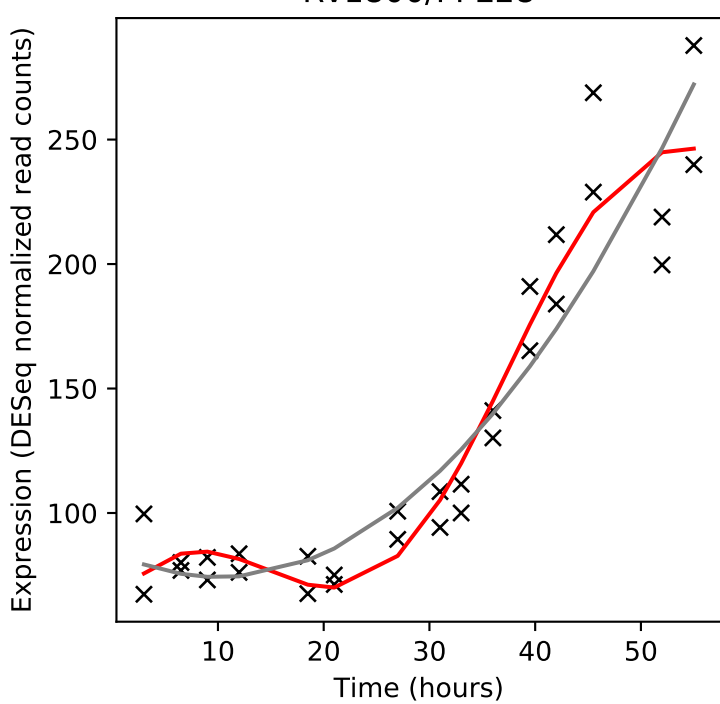
Rv1798/eccA5



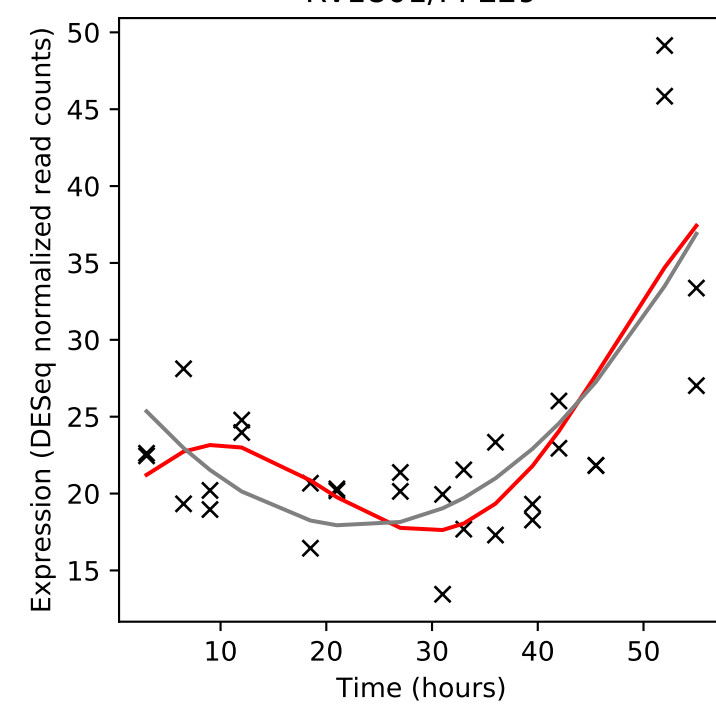
Rv1799/lppT



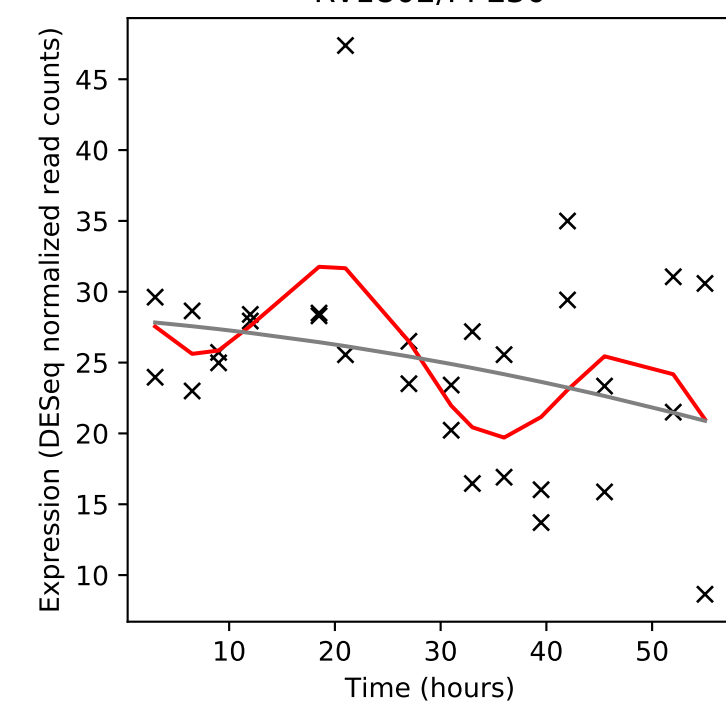
Rv1800/PPE28



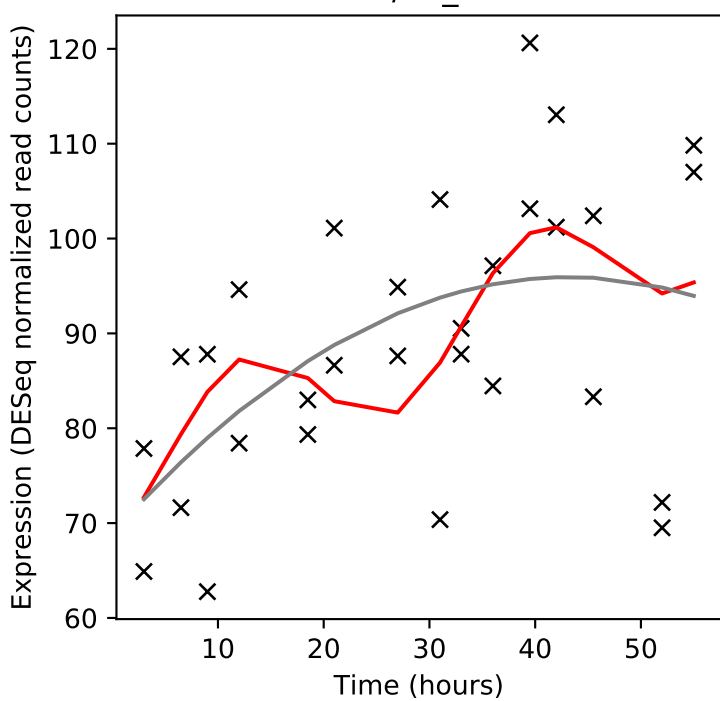
Rv1801/PPE29



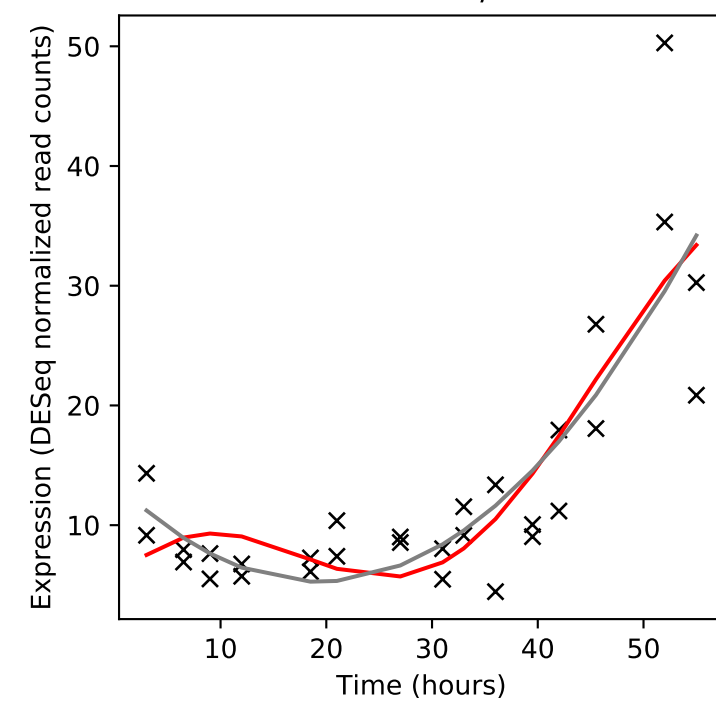
Rv1802/PPE30



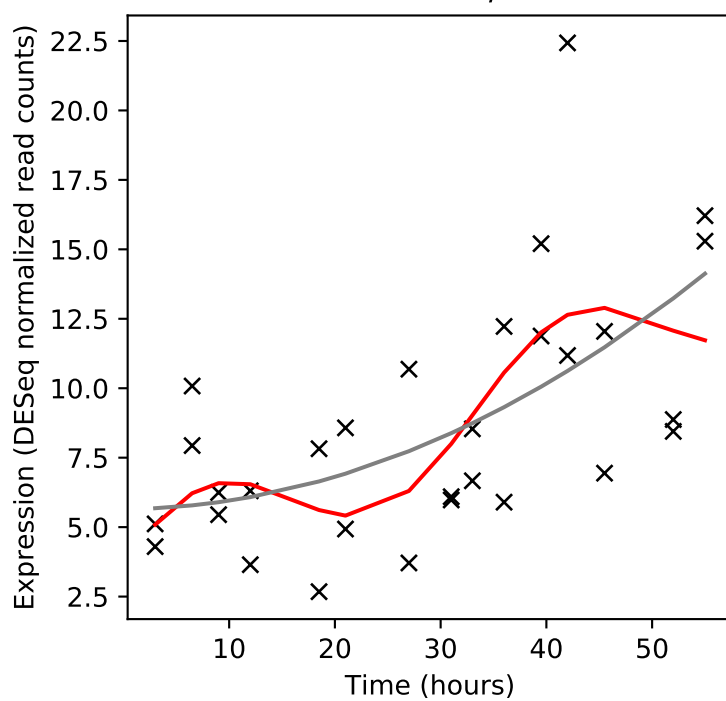
Rv1803c/PE_PGRS32



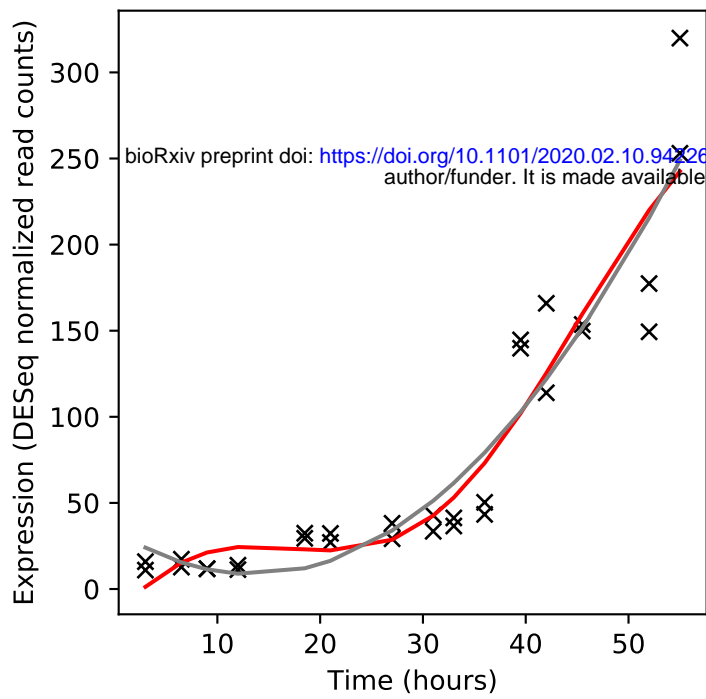
Rv1804c/-



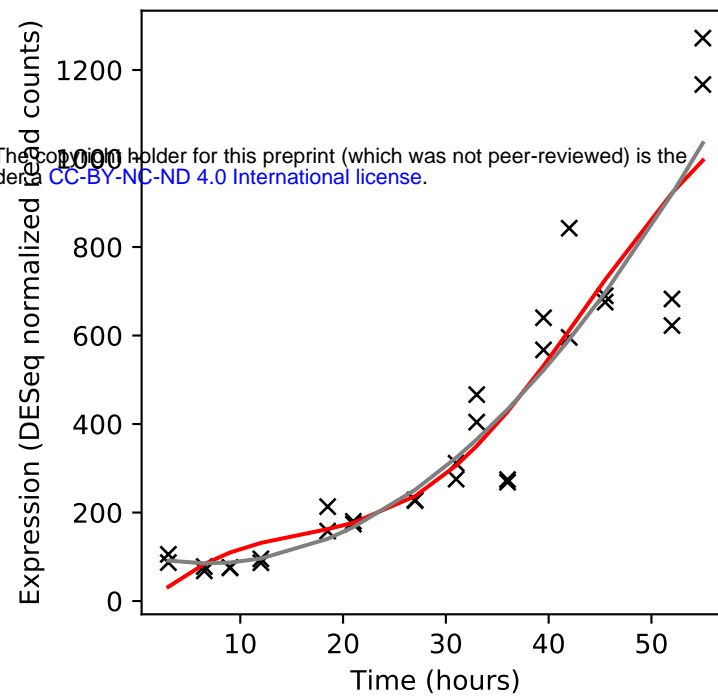
Rv1805c/-



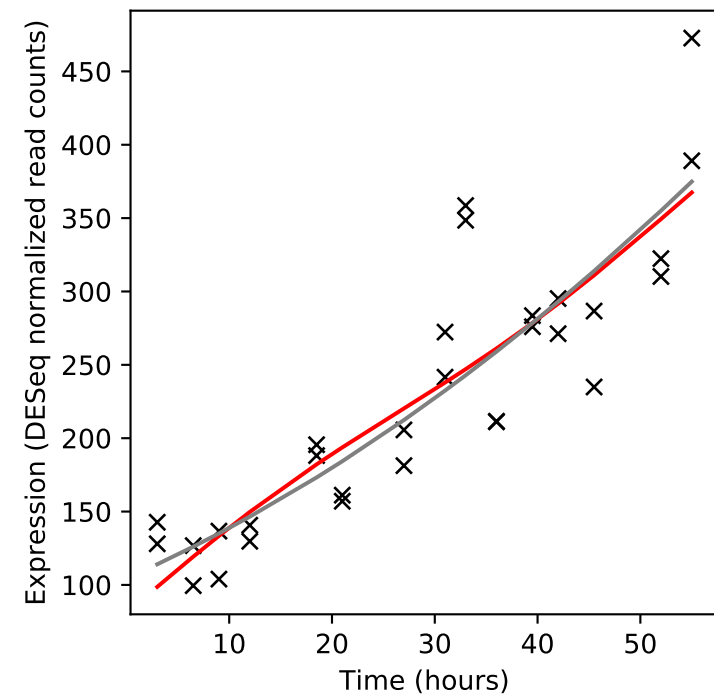
Rv1806/PE20



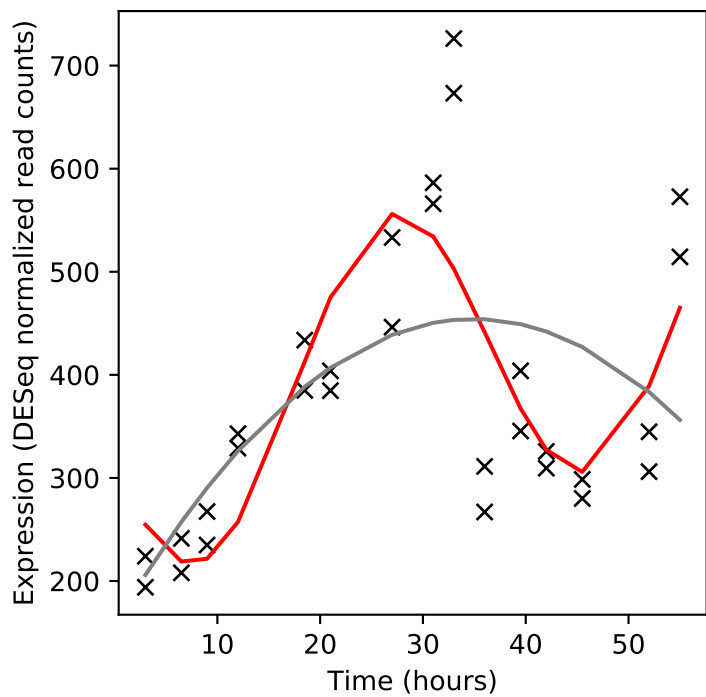
Rv1807/PPE31



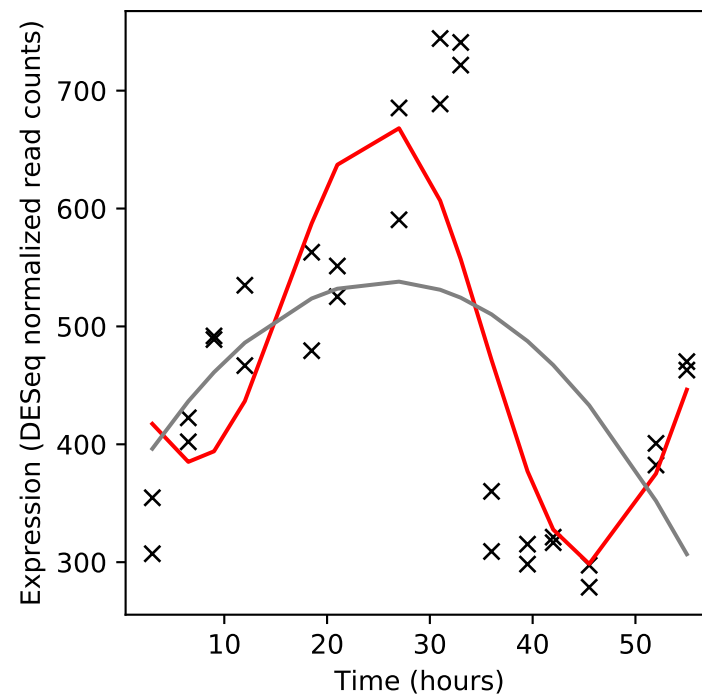
Rv1808/PPE32



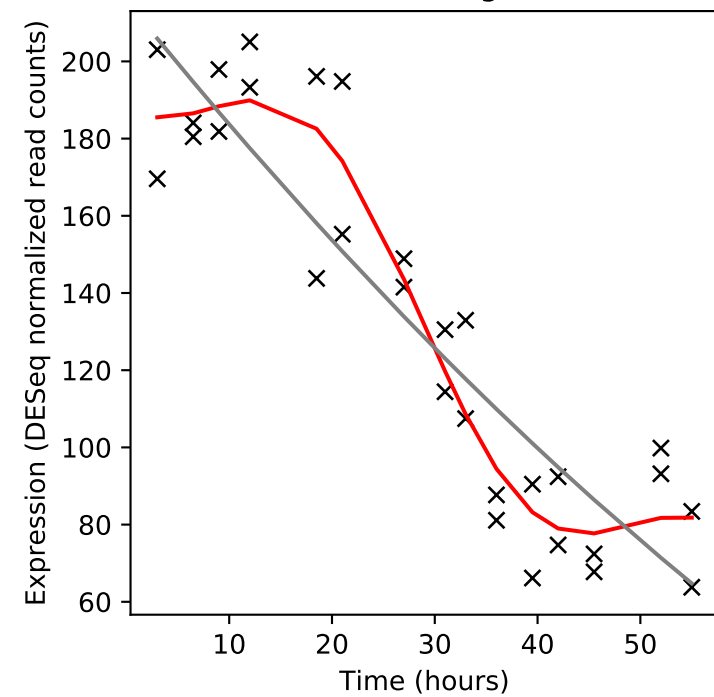
Rv1809/PPE33



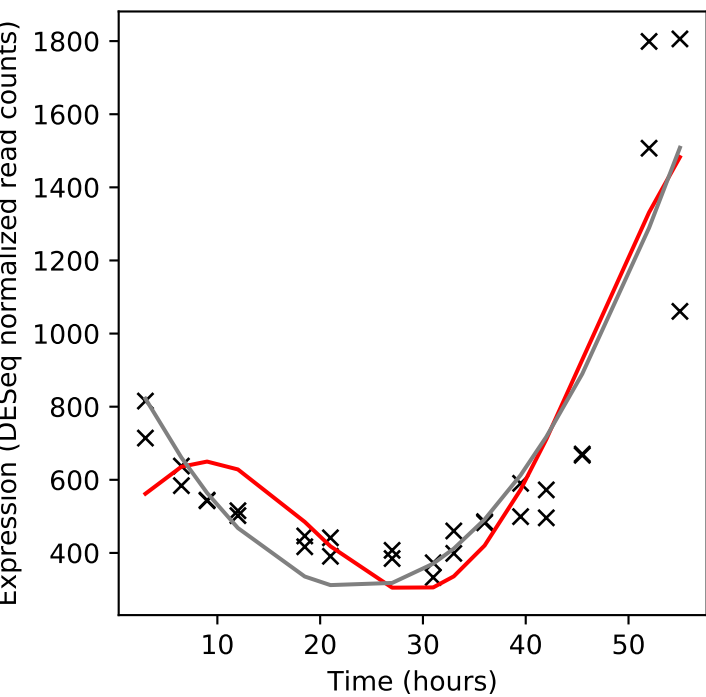
Rv1810/-



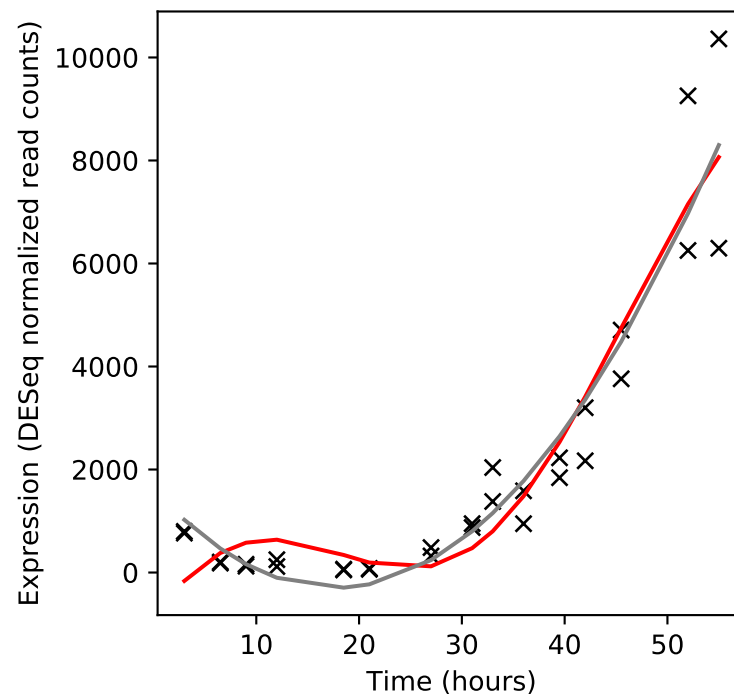
Rv1811/mgtC



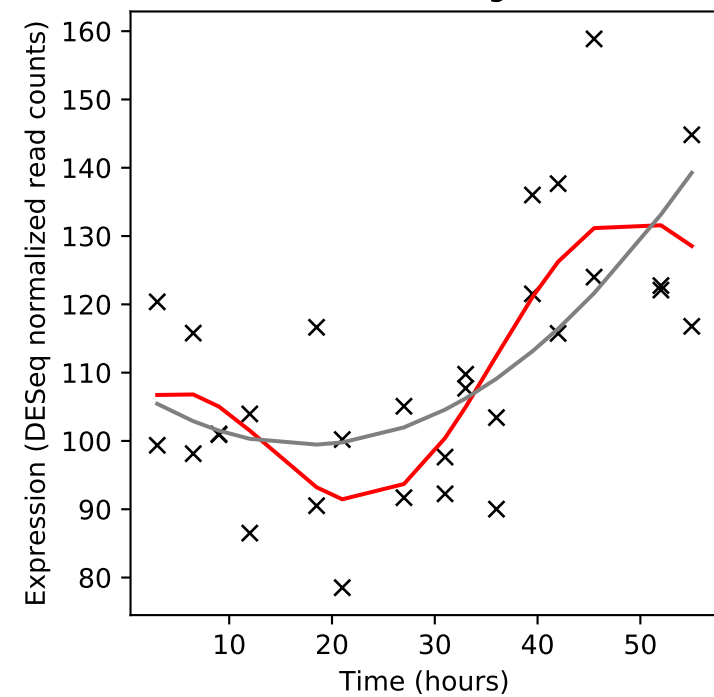
Rv1812c/-



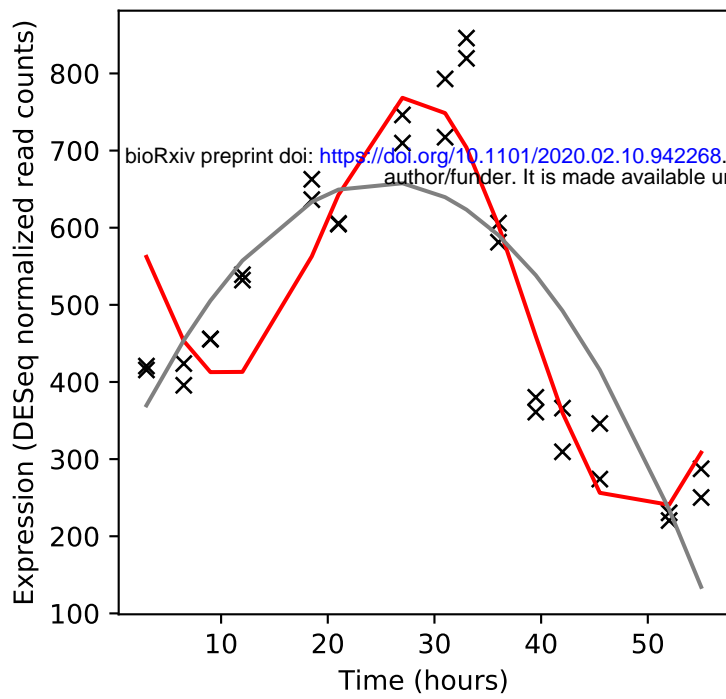
Rv1813c/-



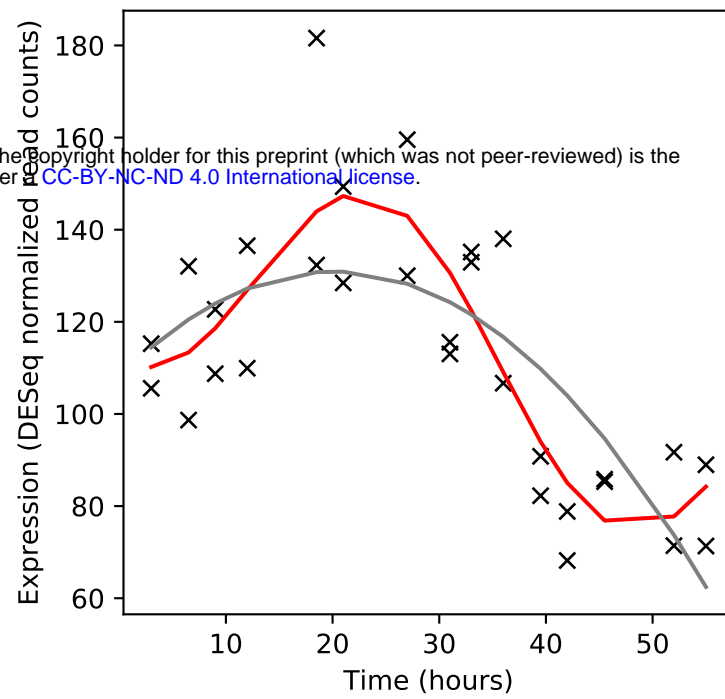
Rv1814/erg3



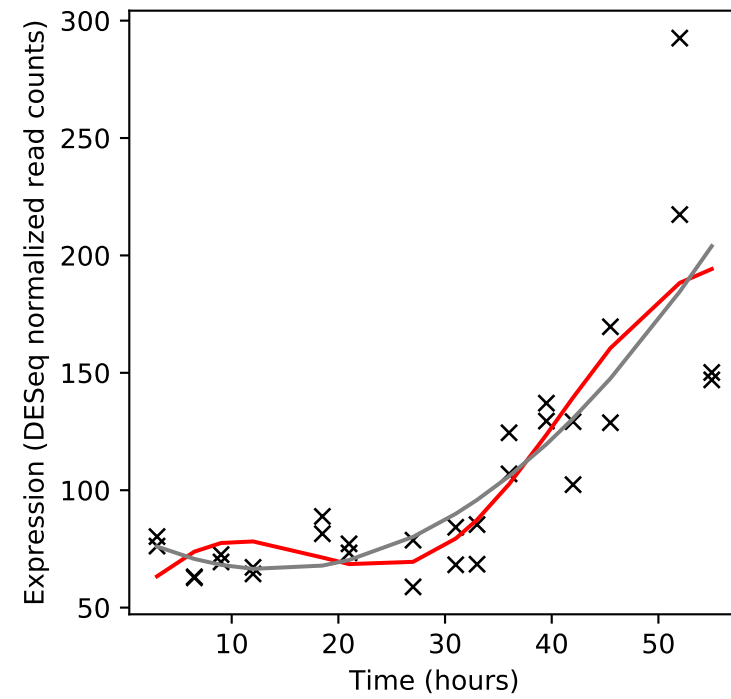
Rv1815/-



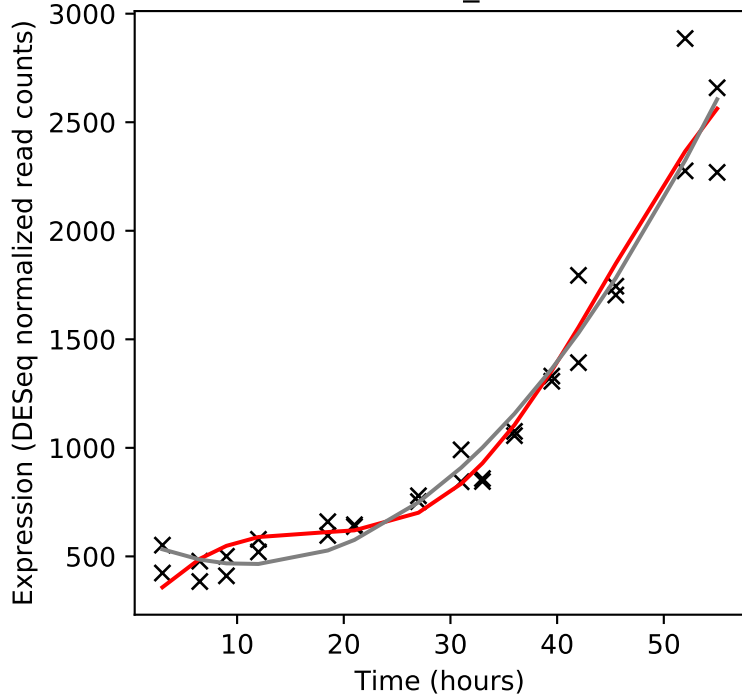
Rv1816/-



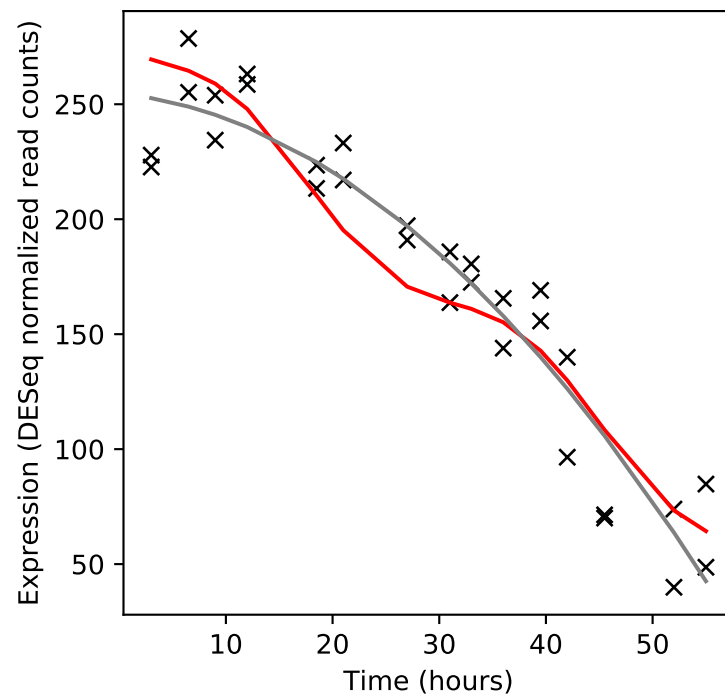
Rv1817/-



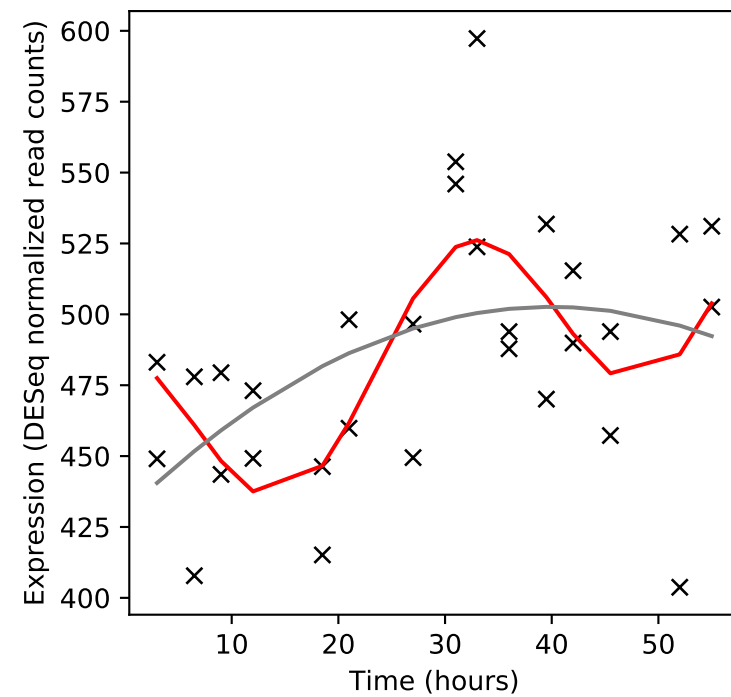
Rv1818c/PE_PGRS33



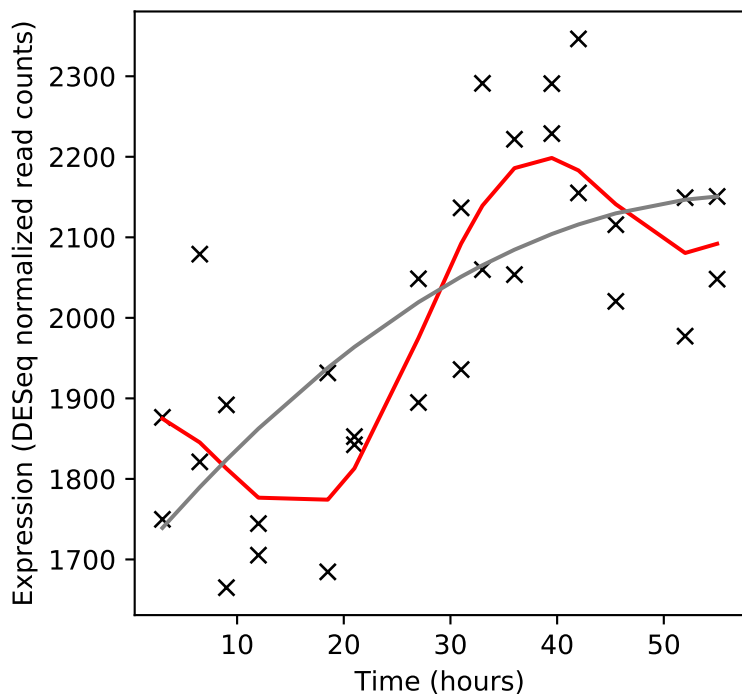
Rv1819c/bacA



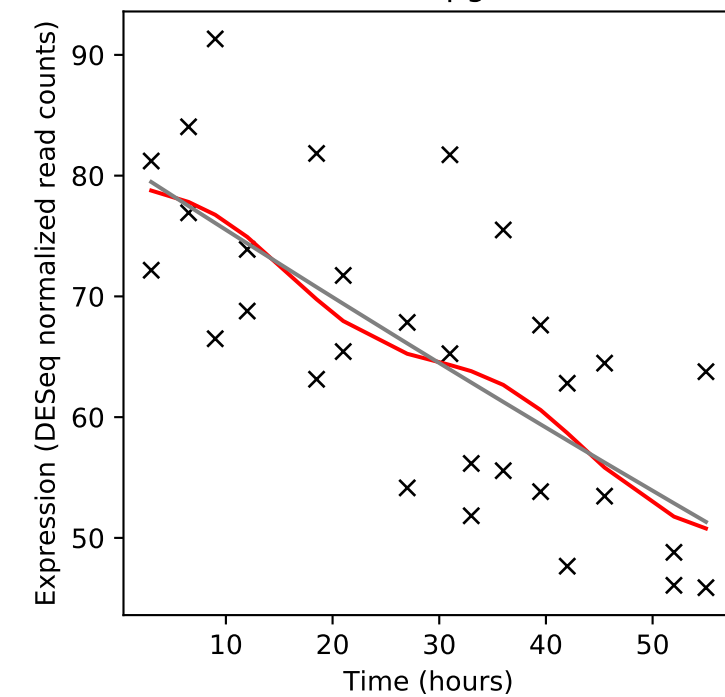
Rv1820/ilvG



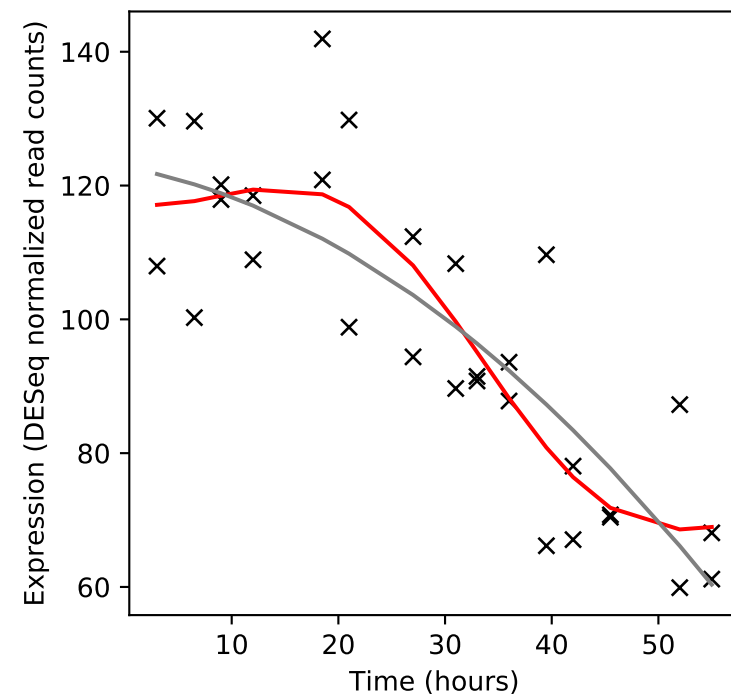
Rv1821/secA2



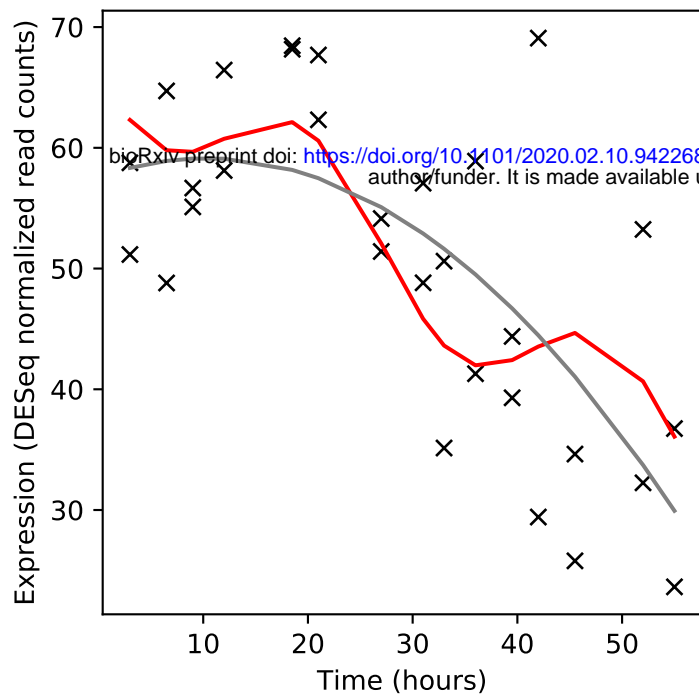
Rv1822/pgsA2



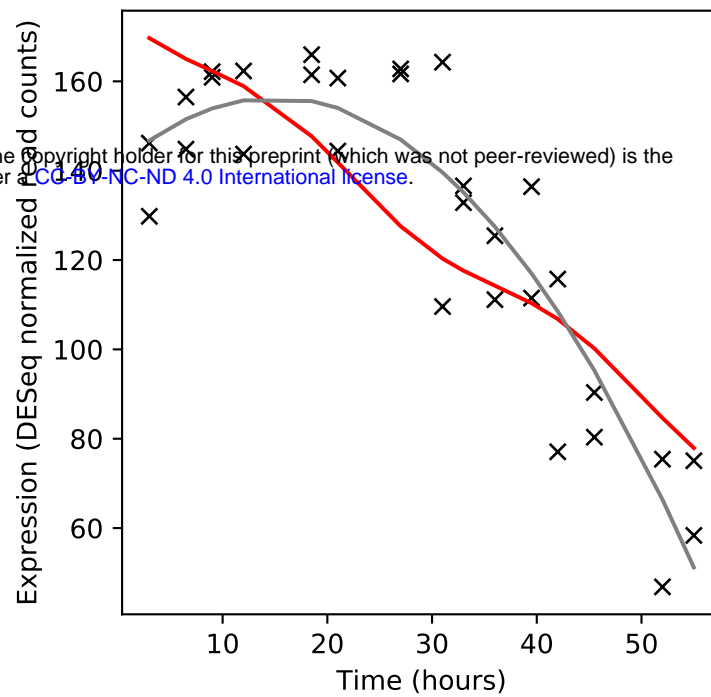
Rv1823/-



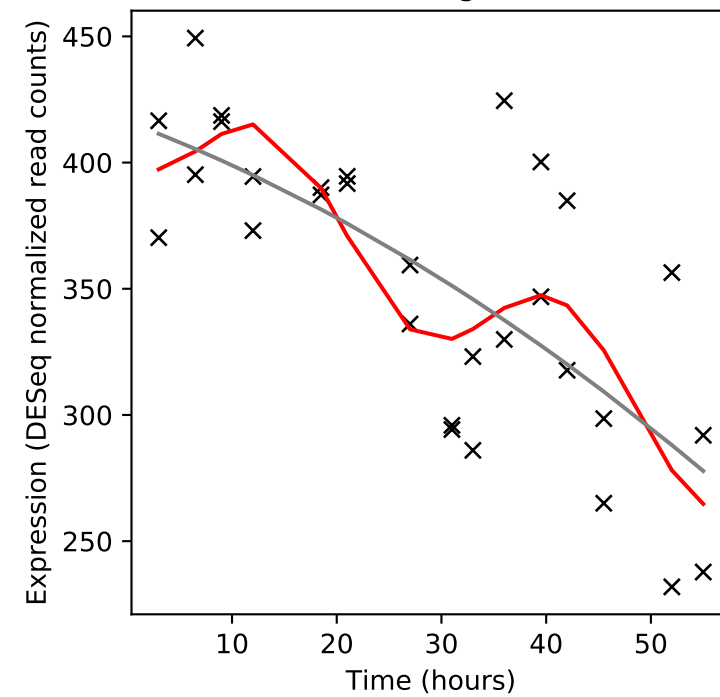
Rv1824/-



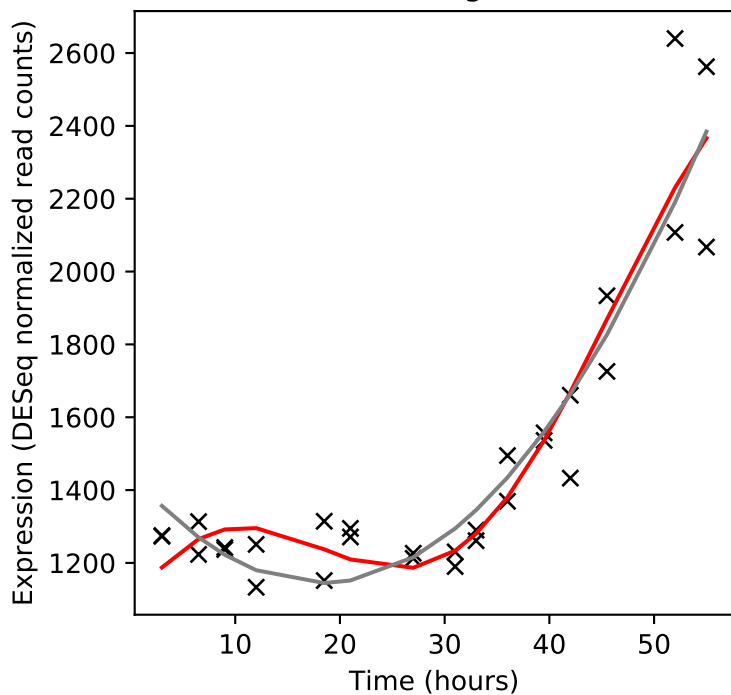
Rv1825/-



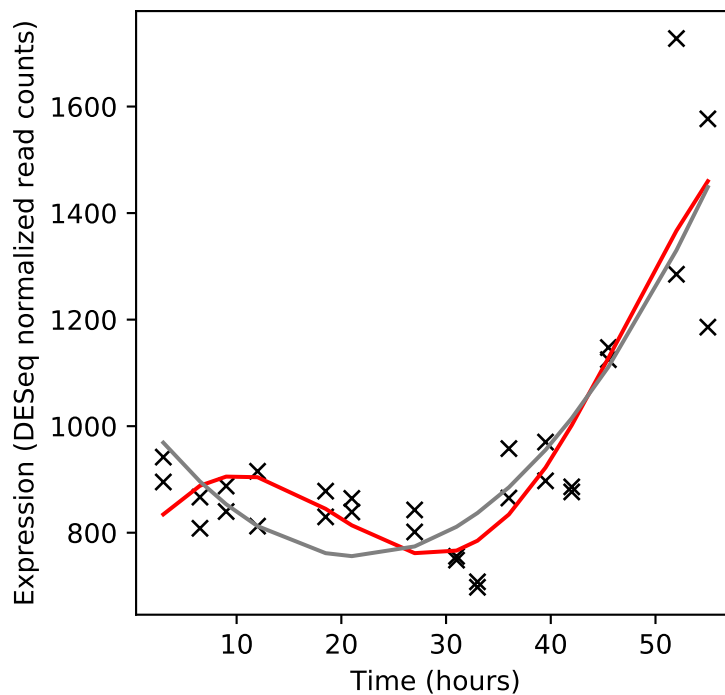
Rv1826/gcvH



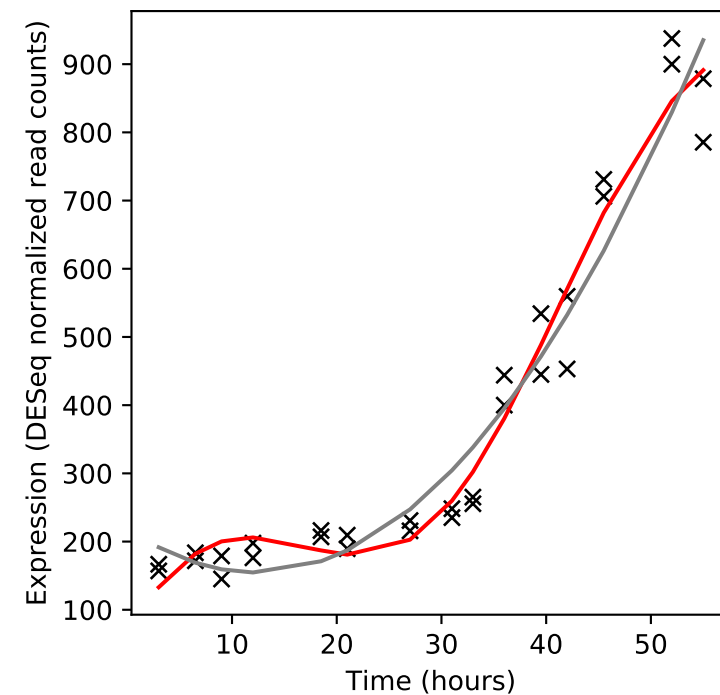
Rv1827/garA



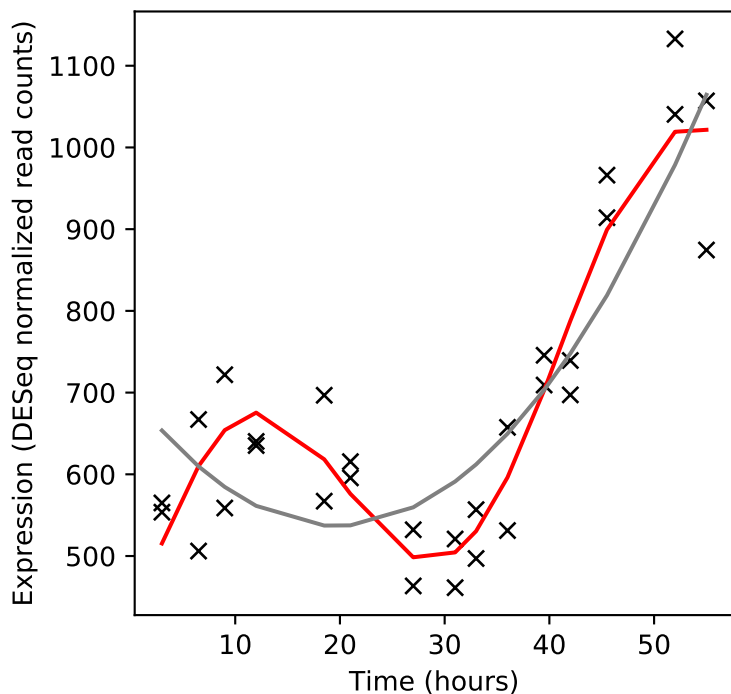
Rv1828/-



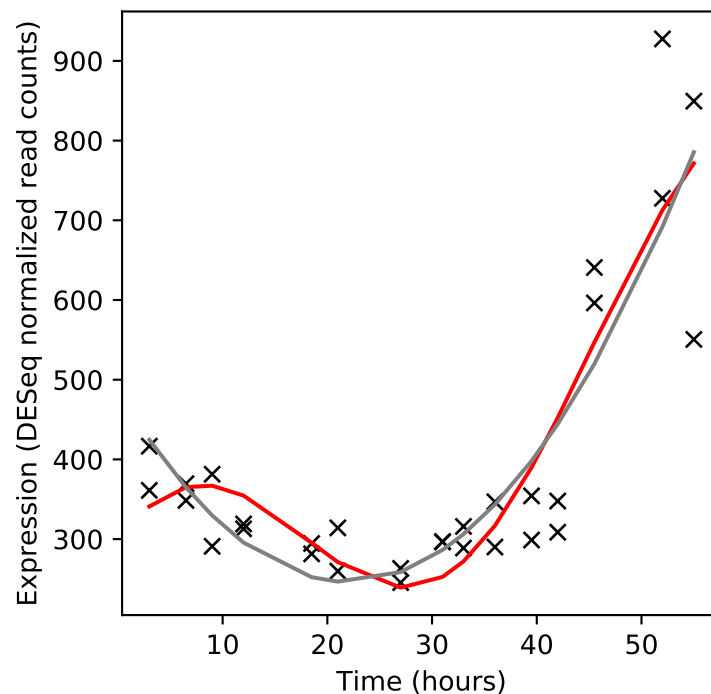
Rv1829/-



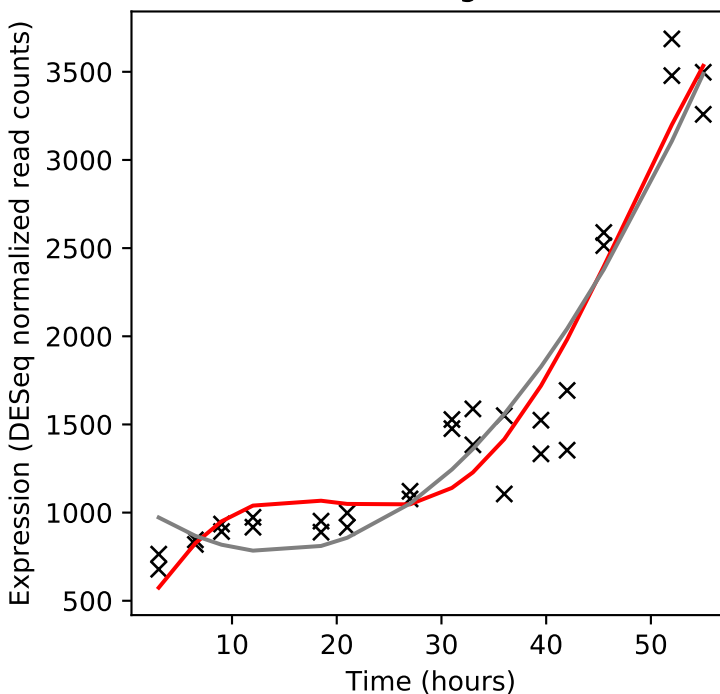
Rv1830/-



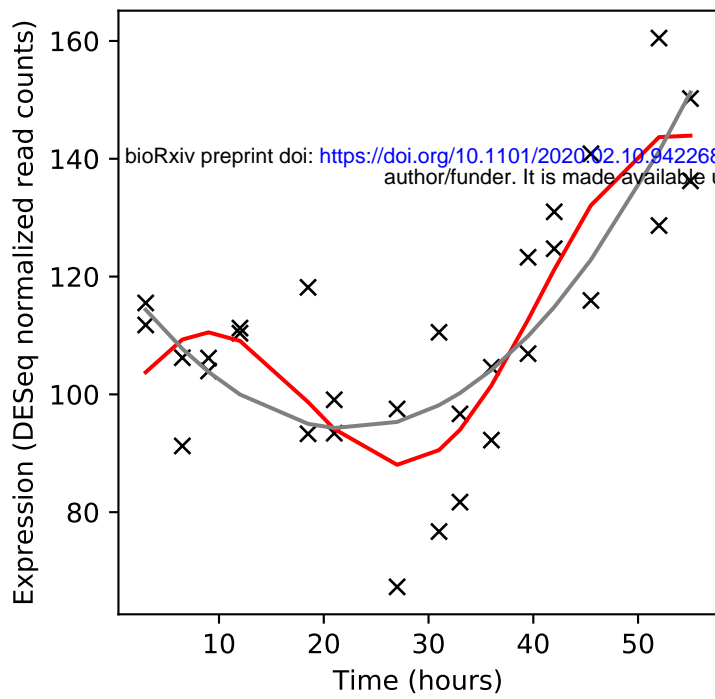
Rv1831/-



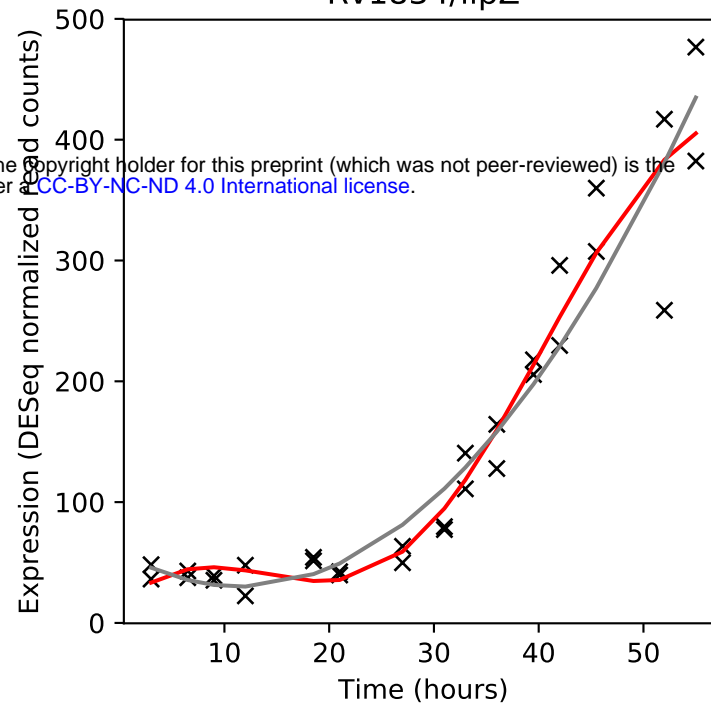
Rv1832/gcvB



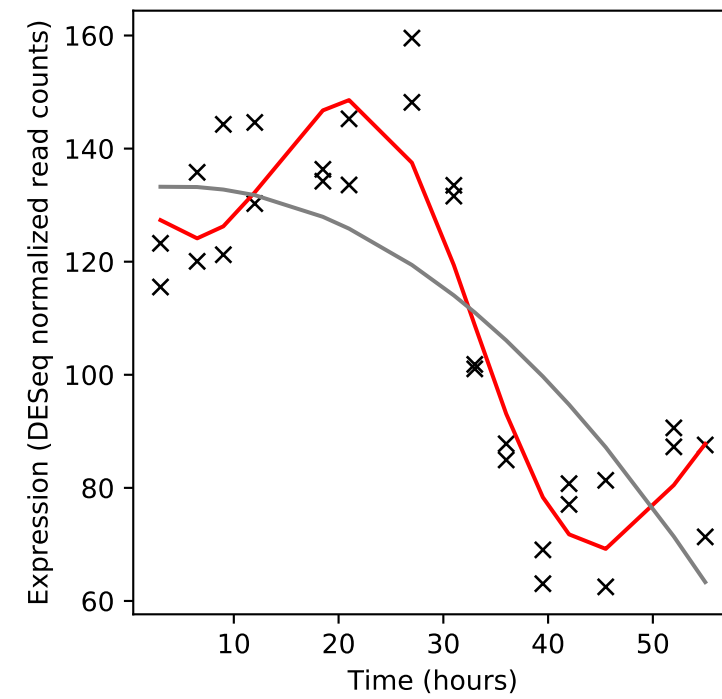
Rv1833c/-



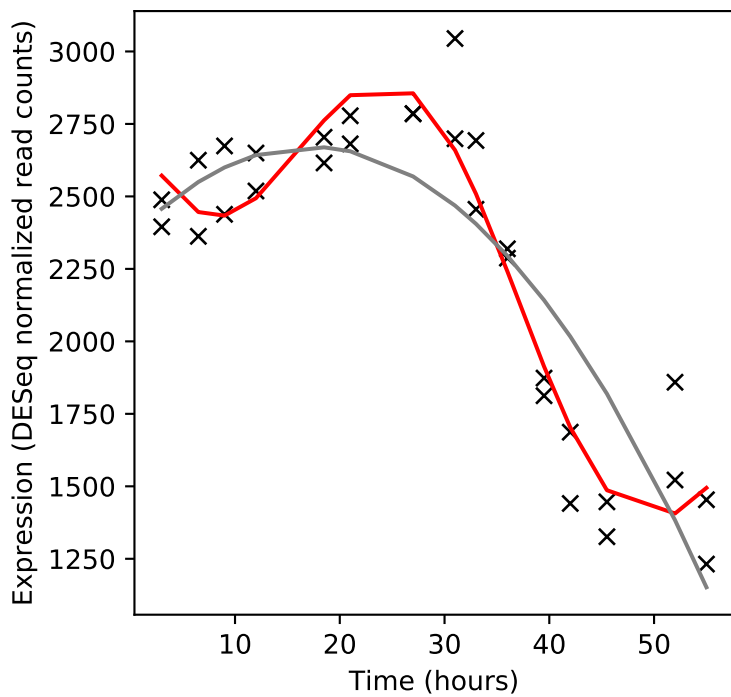
Rv1834/lipZ



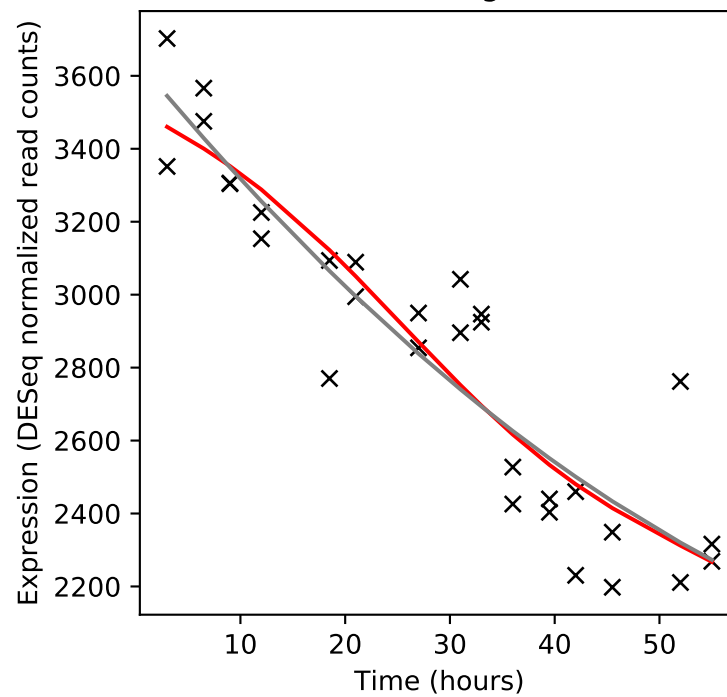
Rv1835c/-



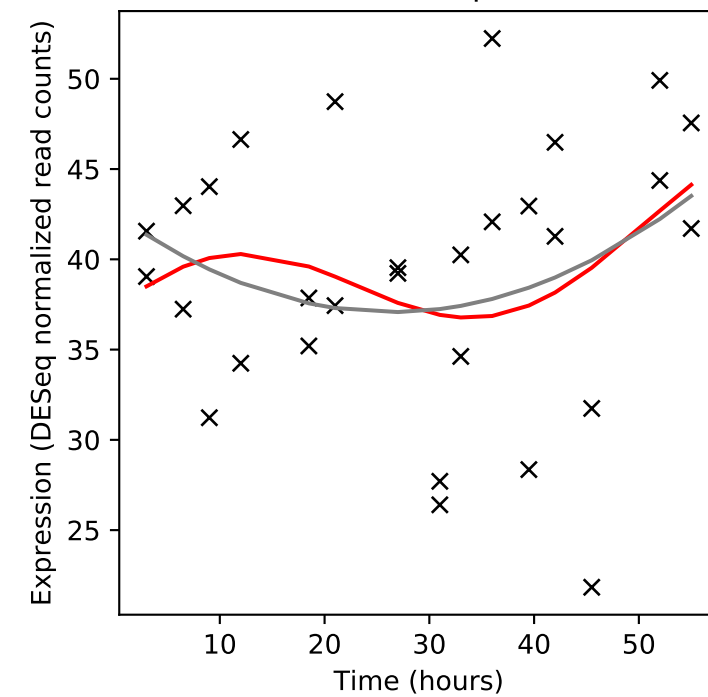
Rv1836c/-



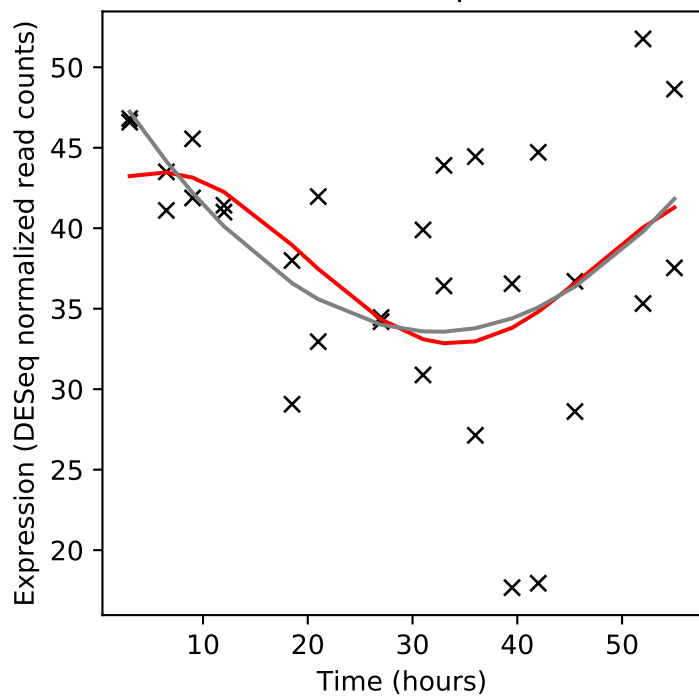
Rv1837c/glcB



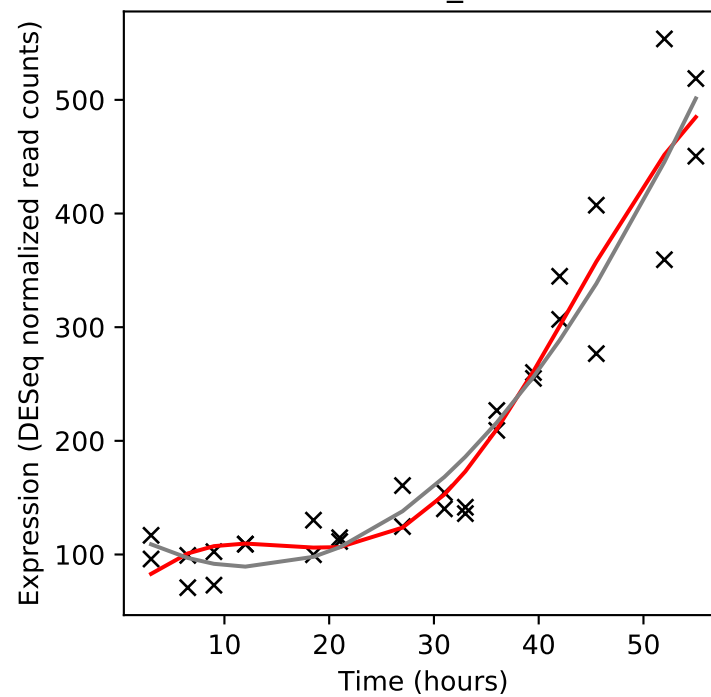
Rv1838c/vapC13



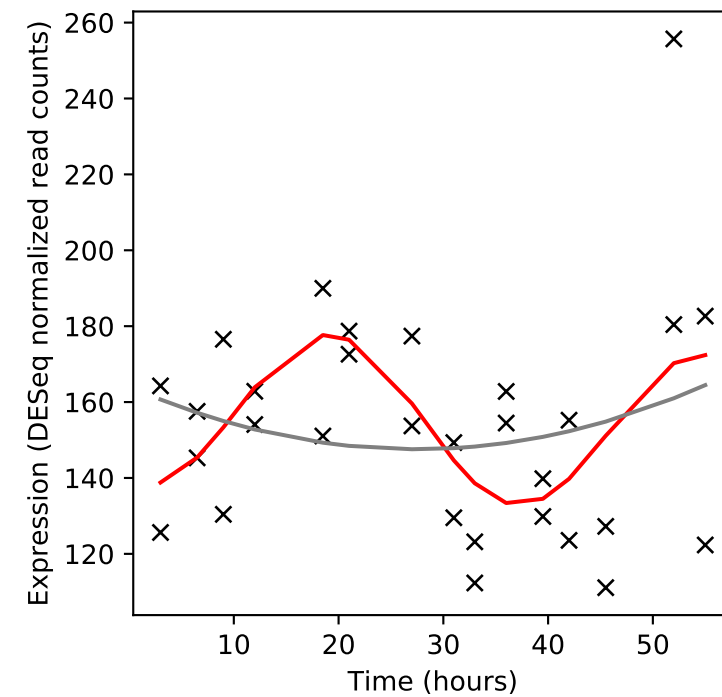
Rv1839c/vapB13



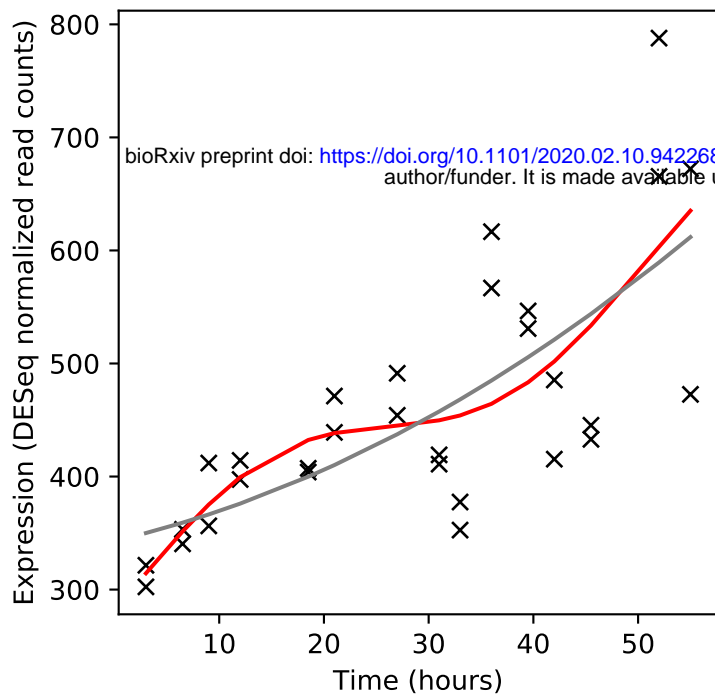
Rv1840c/PE_PGRS34



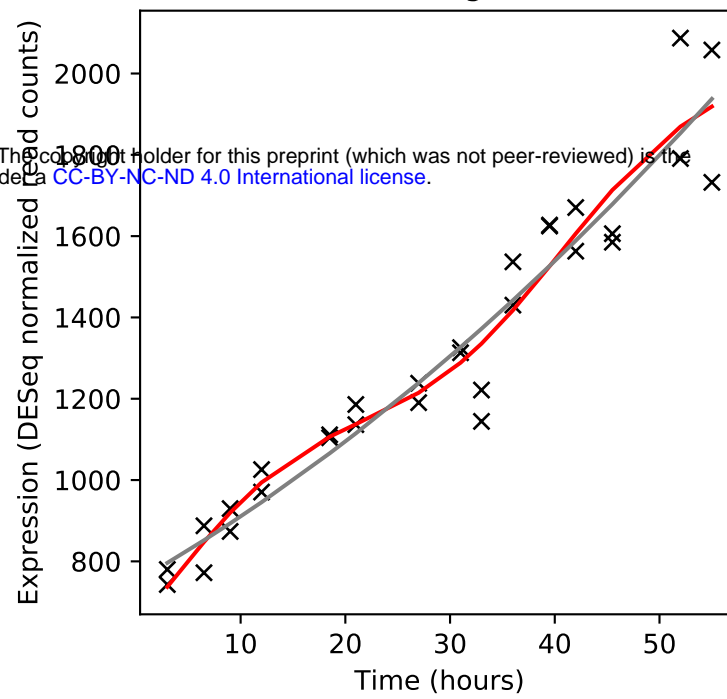
Rv1841c/-



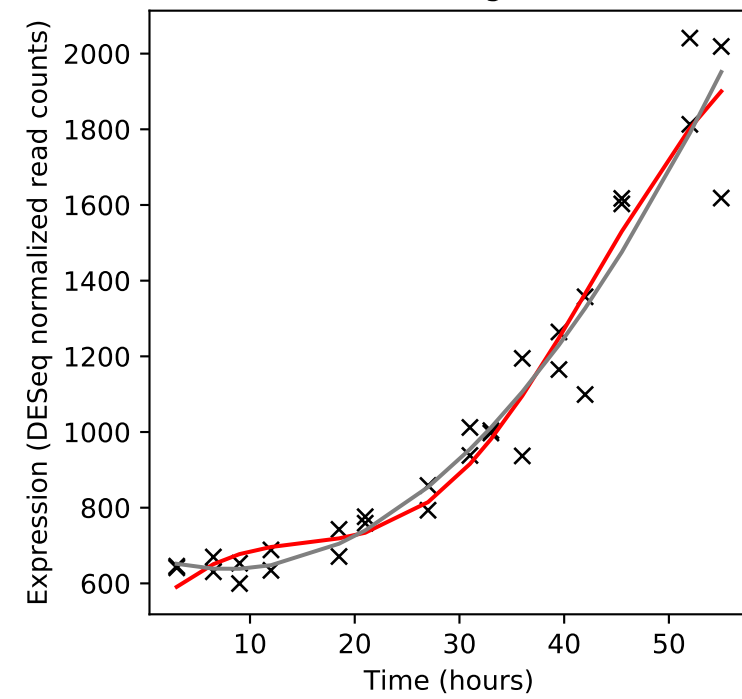
Rv1842c/-



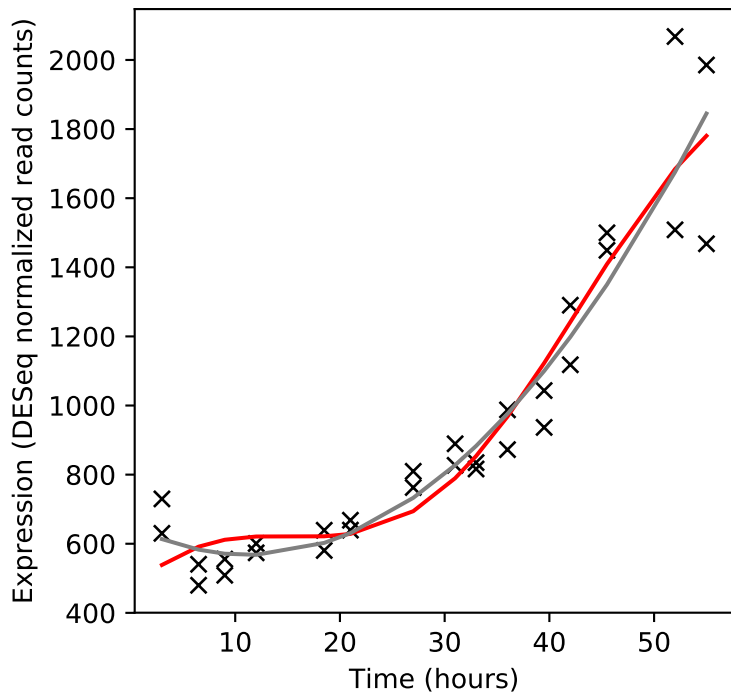
Rv1843c/guaB1



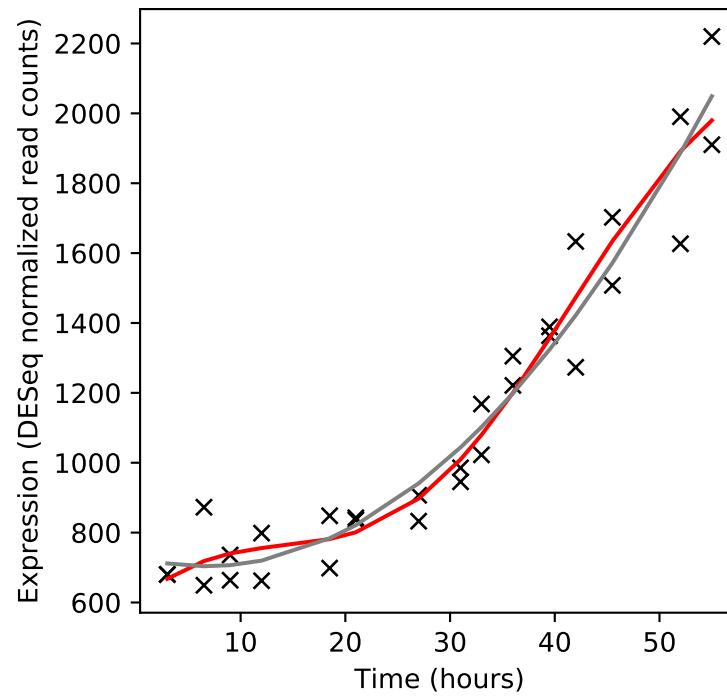
Rv1844c/gnd1



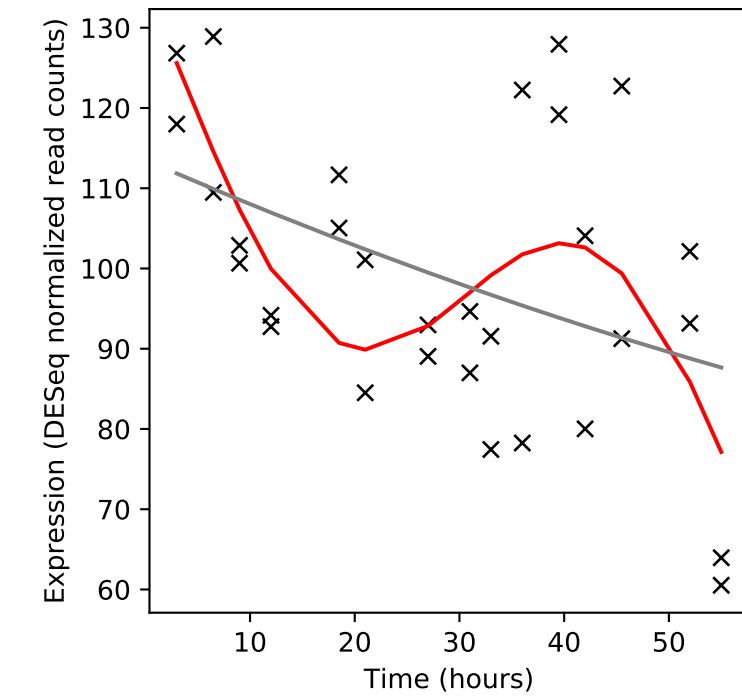
Rv1845c/blaR



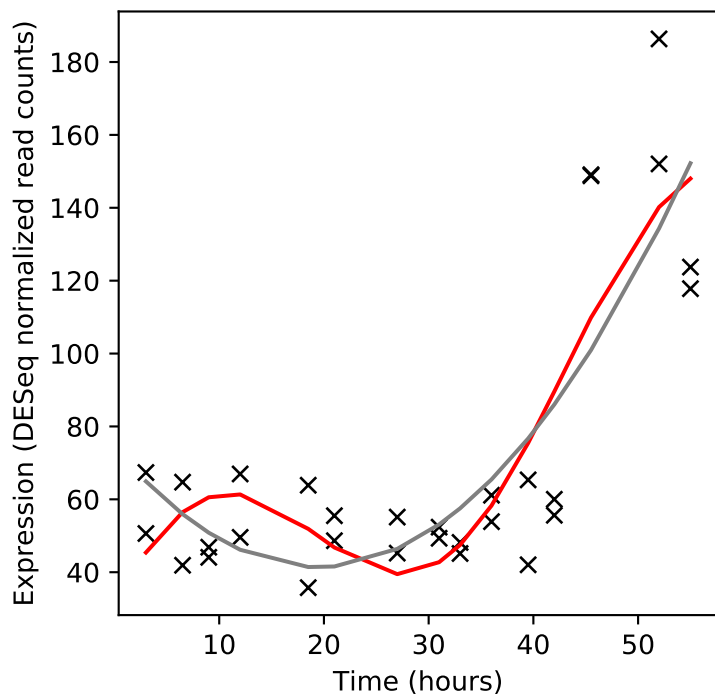
Rv1846c/blaI



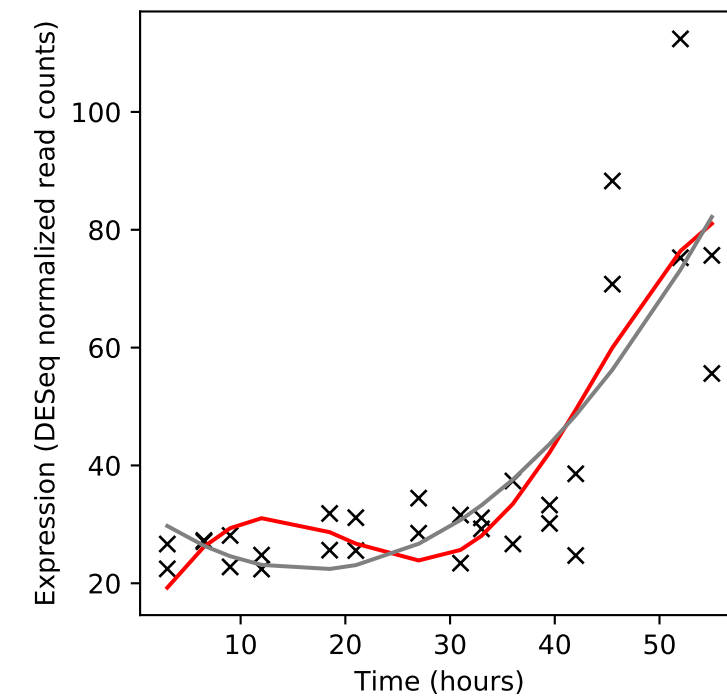
Rv1847/-



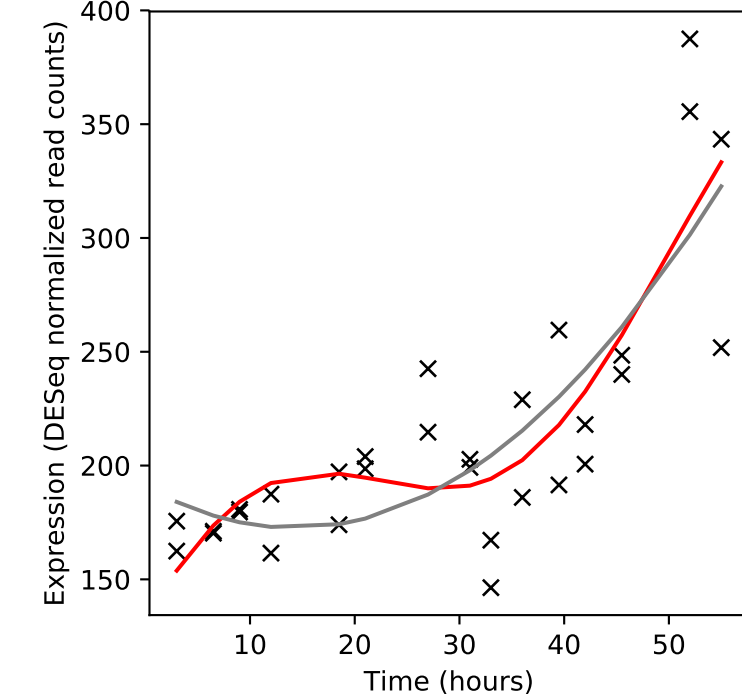
Rv1848/ureA



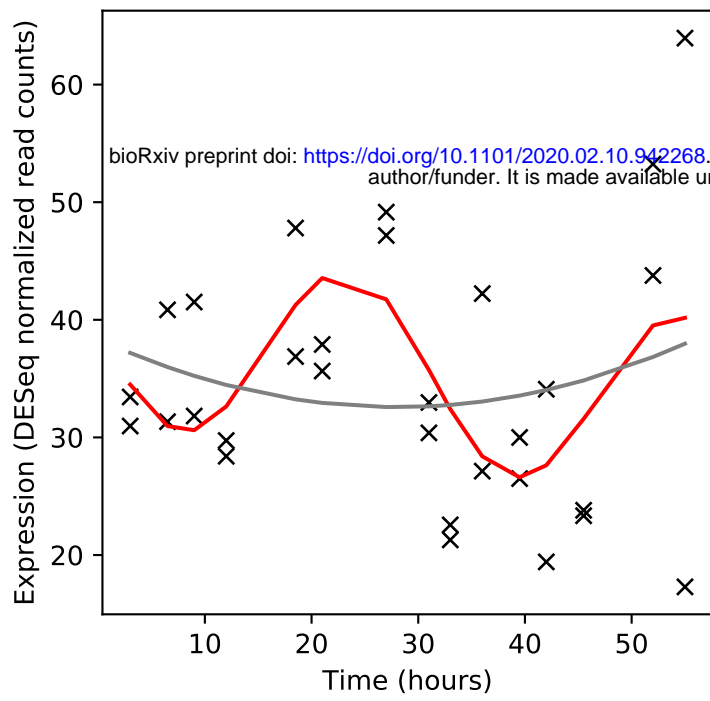
Rv1849/ureB



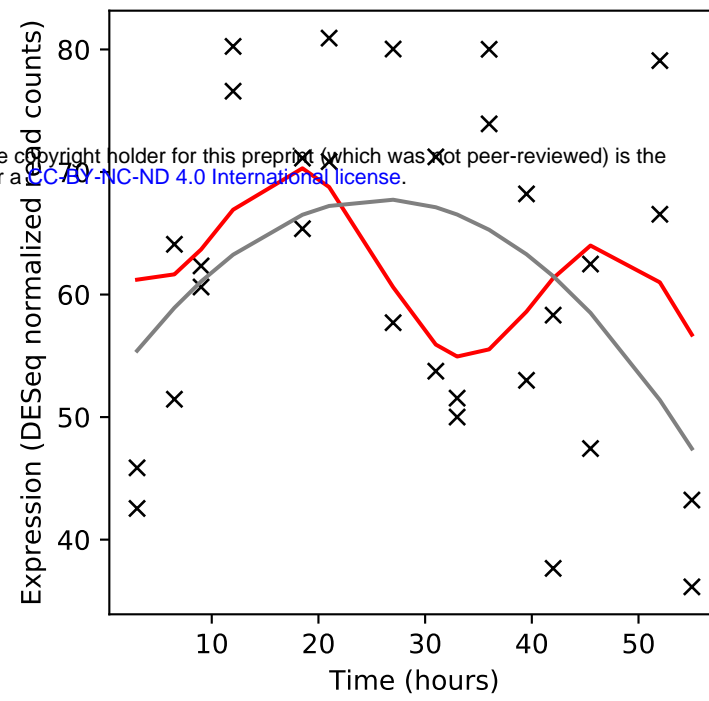
Rv1850/ureC



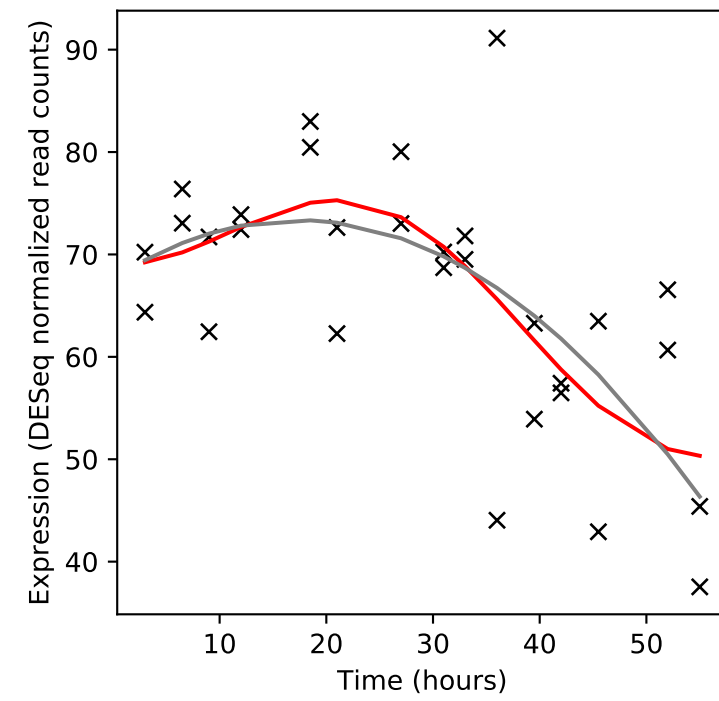
Rv1851/ureF



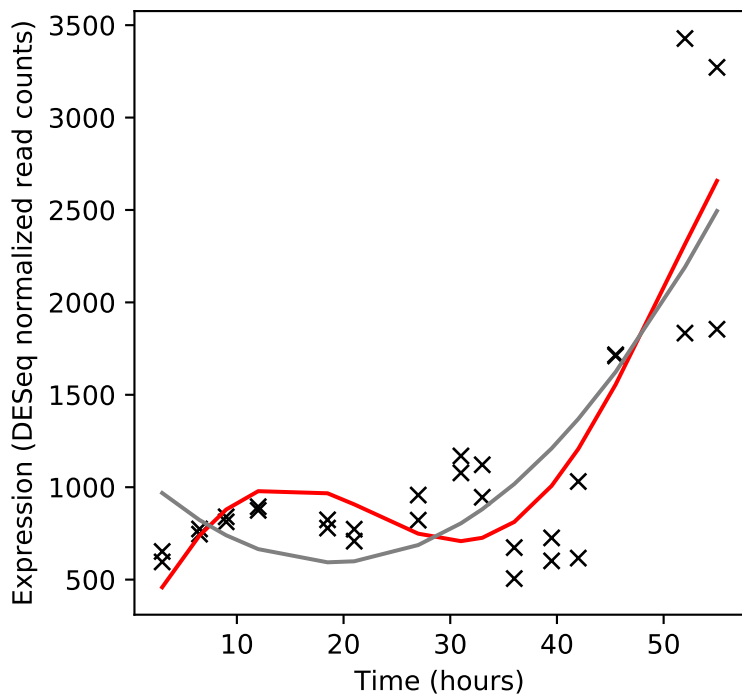
Rv1852/ureG



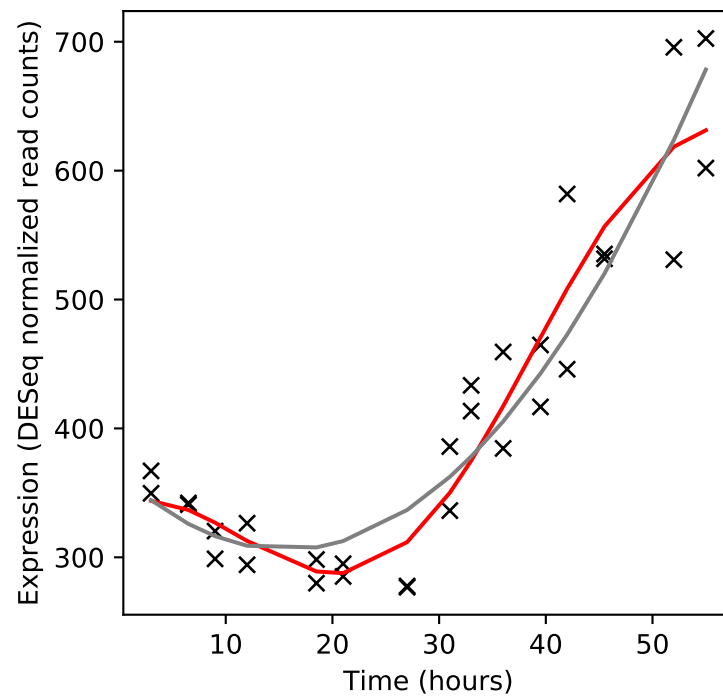
Rv1853/ureD



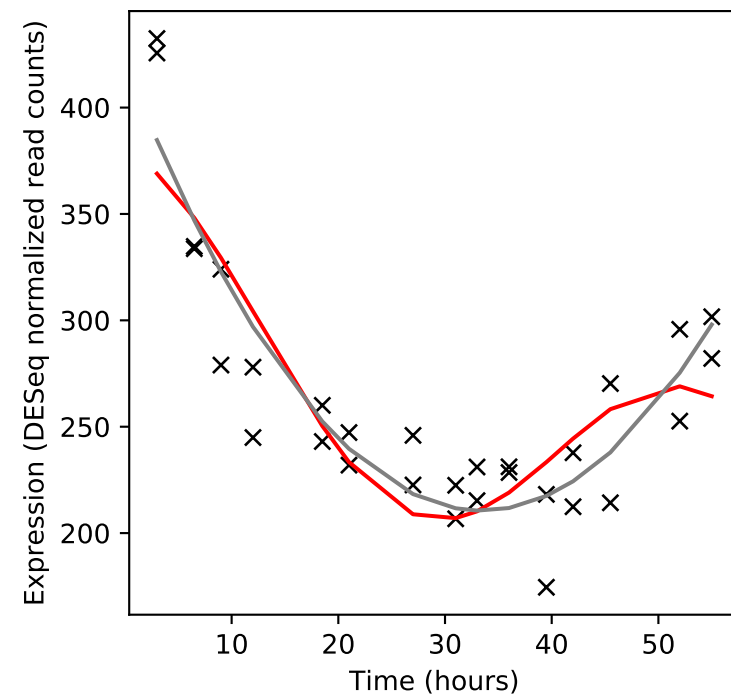
Rv1854c/ndh



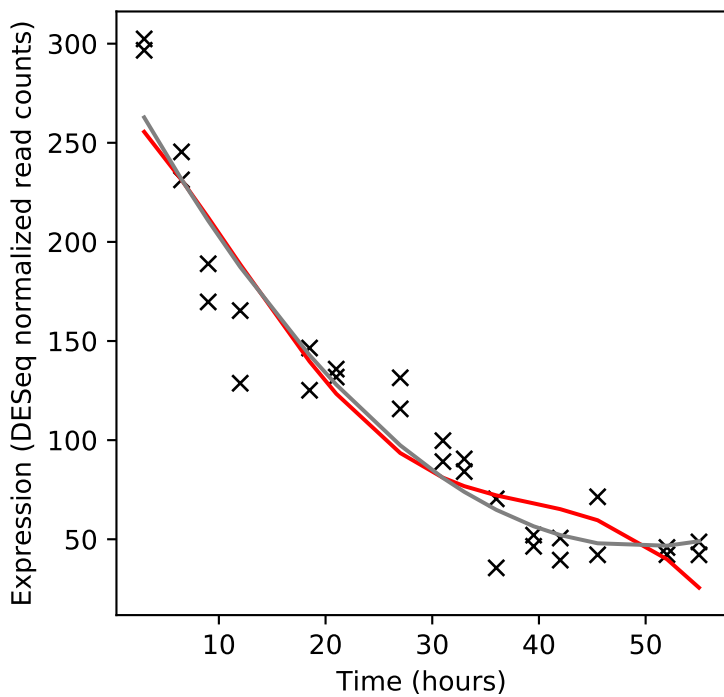
Rv1855c/-



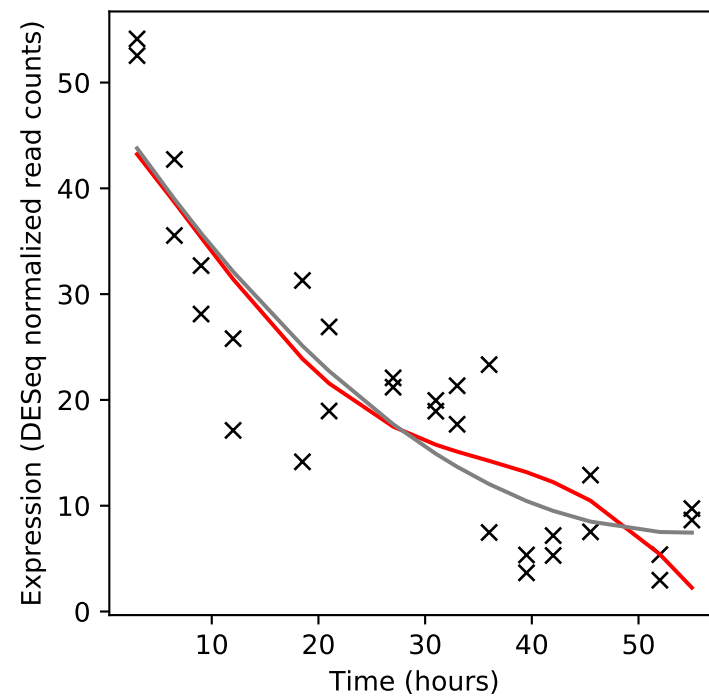
Rv1856c/-



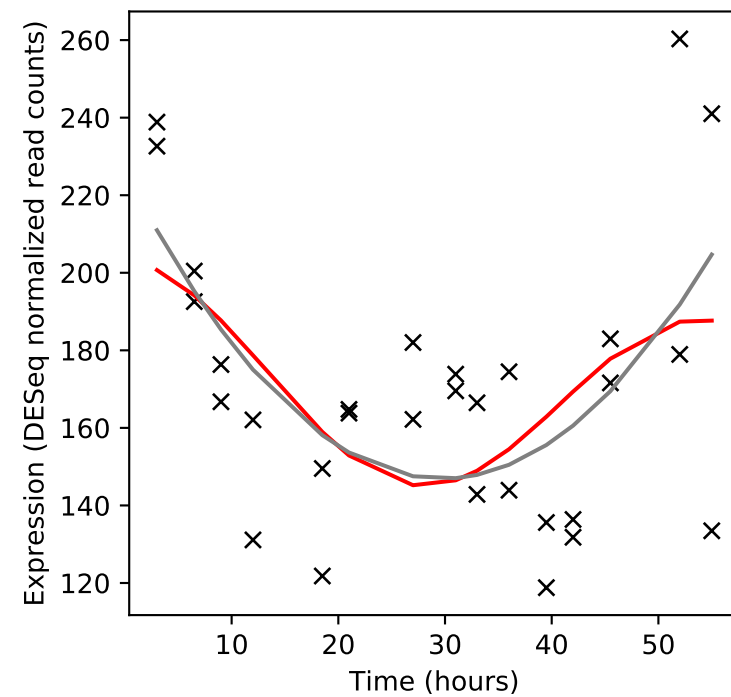
Rv1857/modA

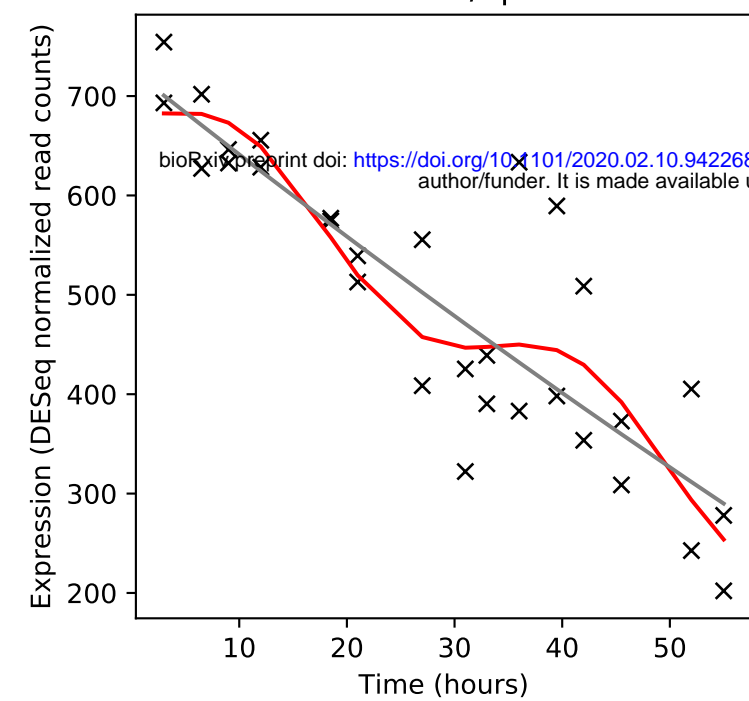
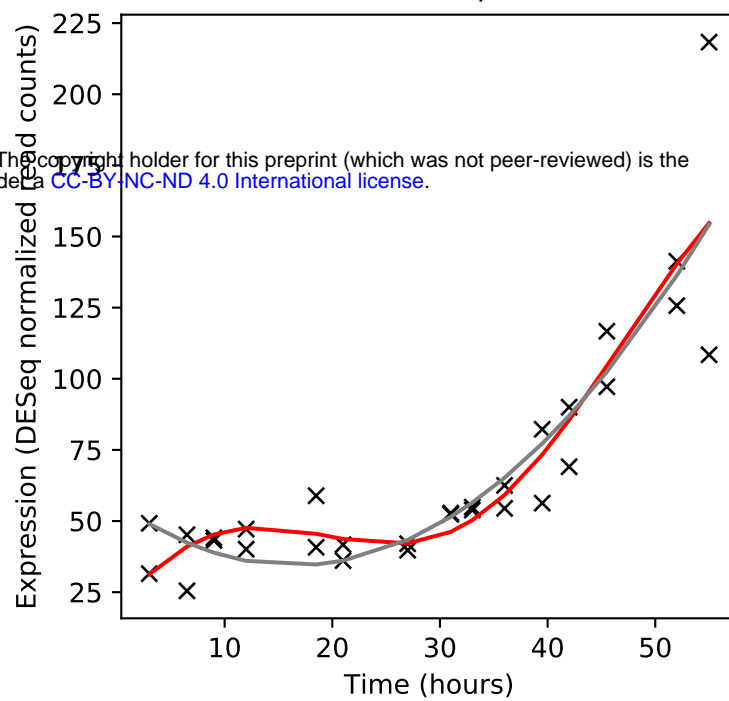
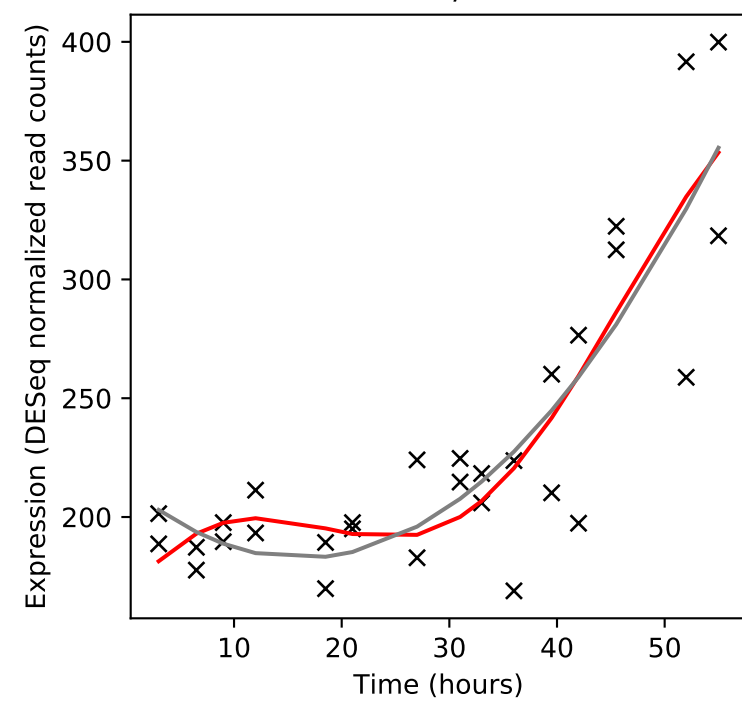
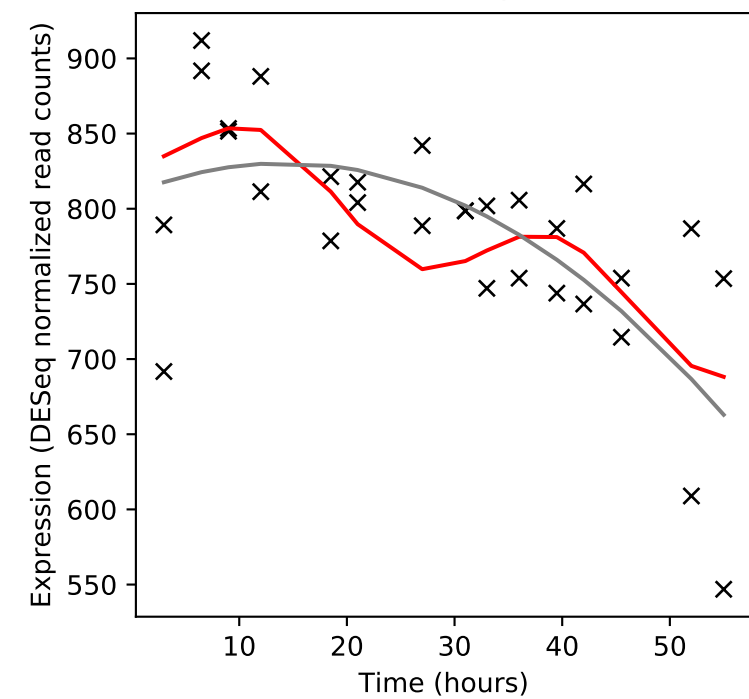
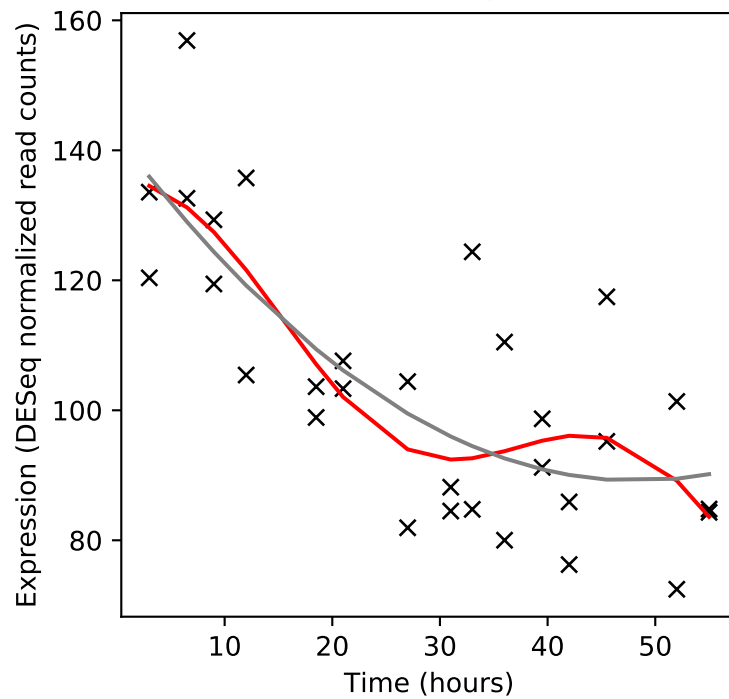
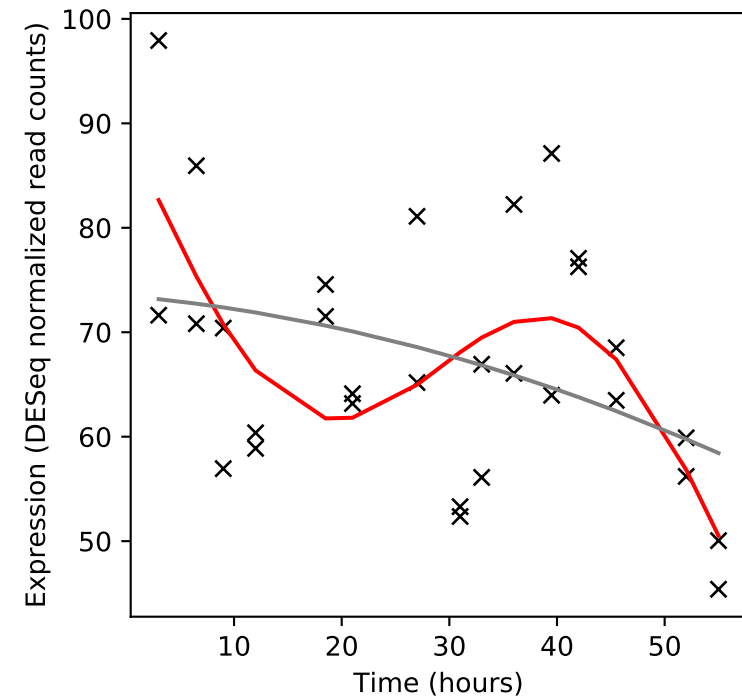
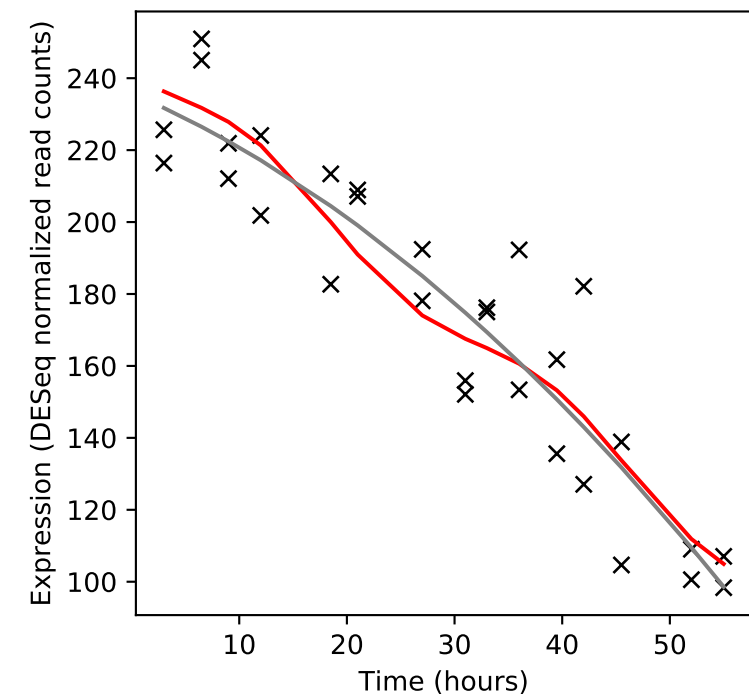
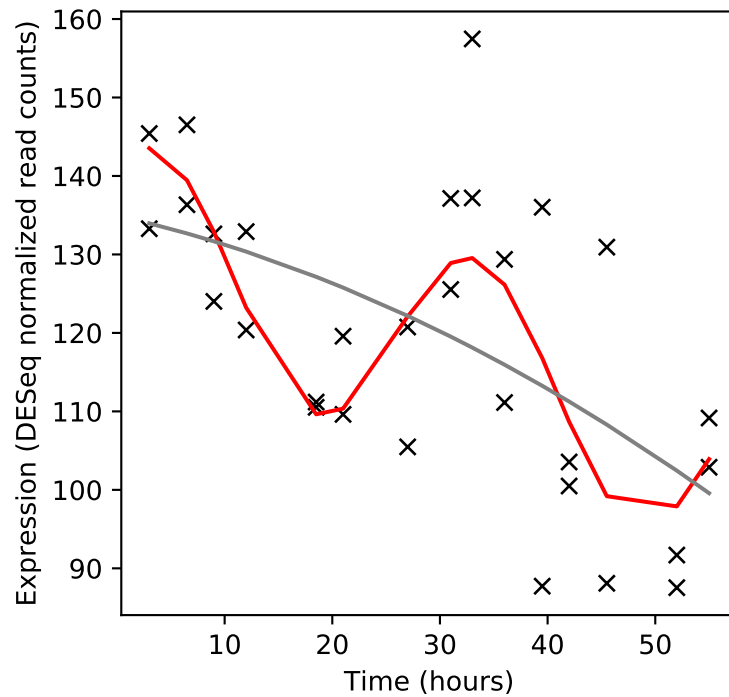
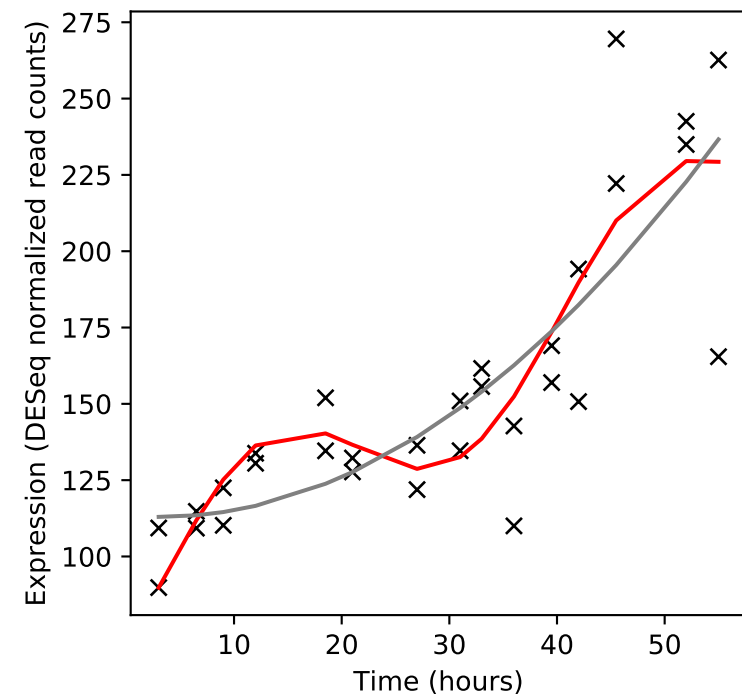


Rv1858/modB

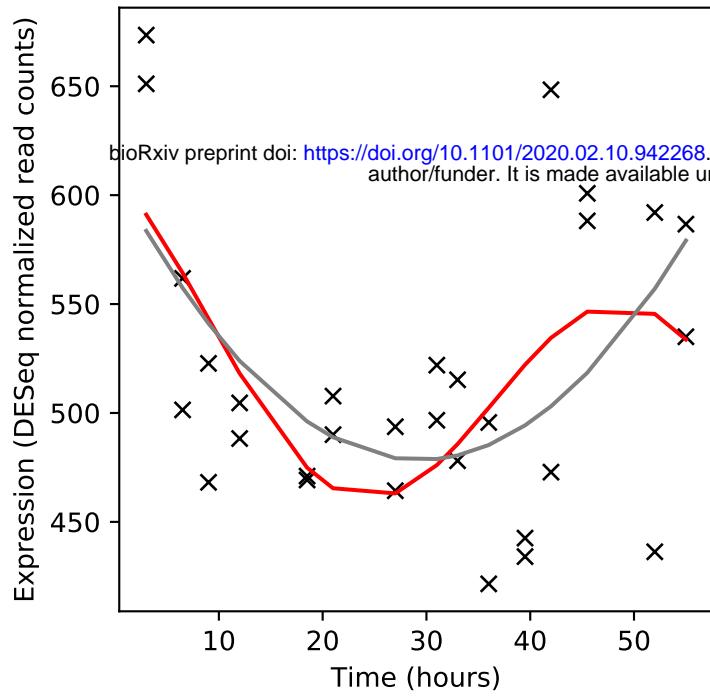


Rv1859/modC

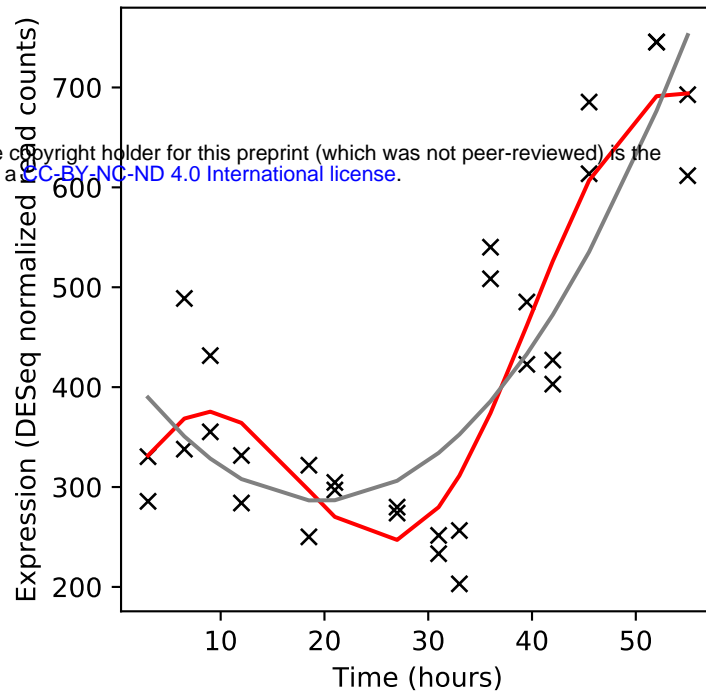


Rv1860/apa**Rv1861/-****Rv1862/adhA****Rv1863c/-****Rv1864c/-****Rv1865c/-****Rv1866/-****Rv1867/-****Rv1868/-**

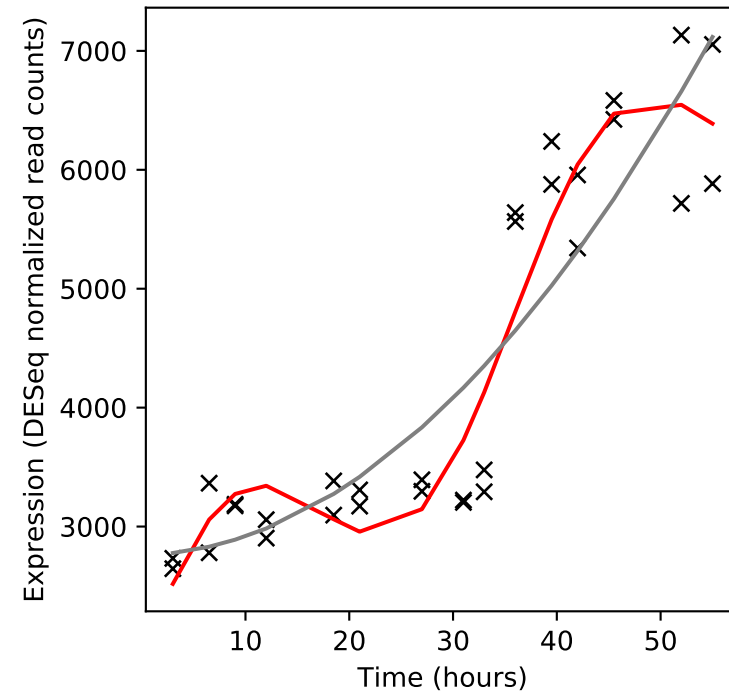
Rv1869c/-



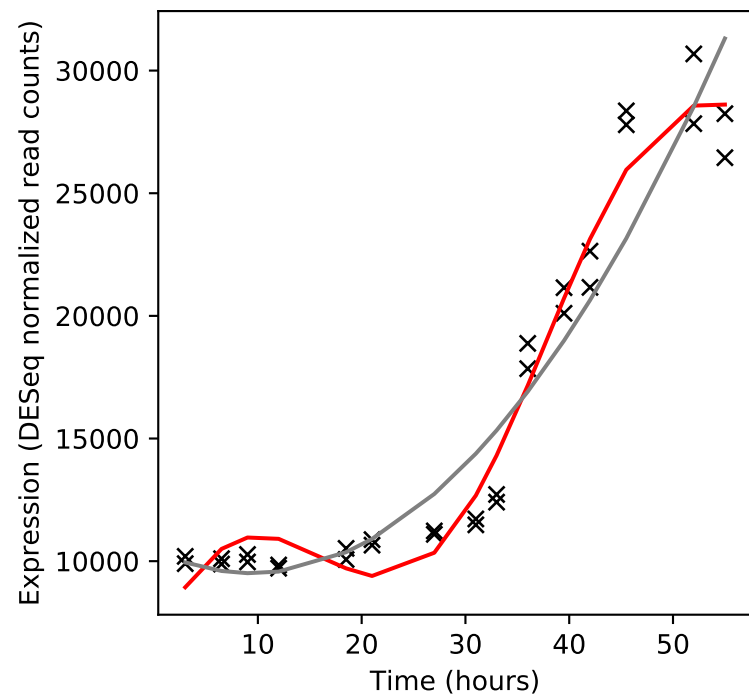
Rv1870c/-



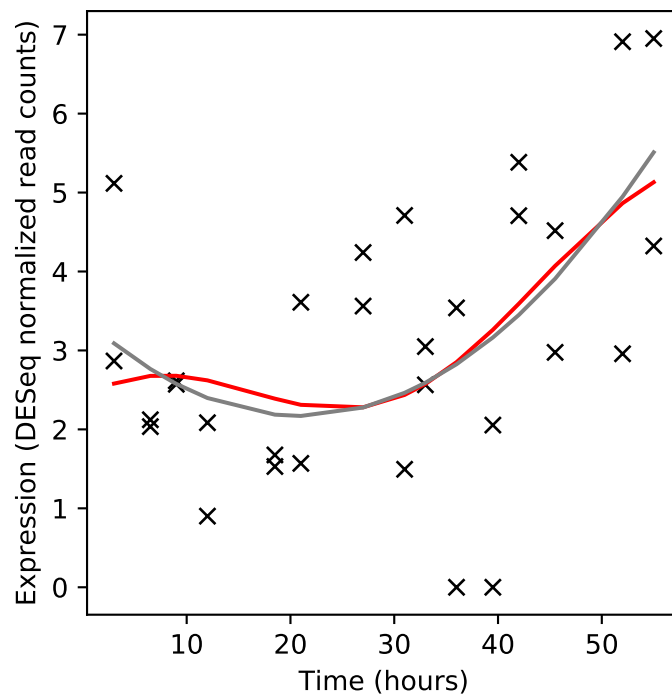
Rv1871c/-



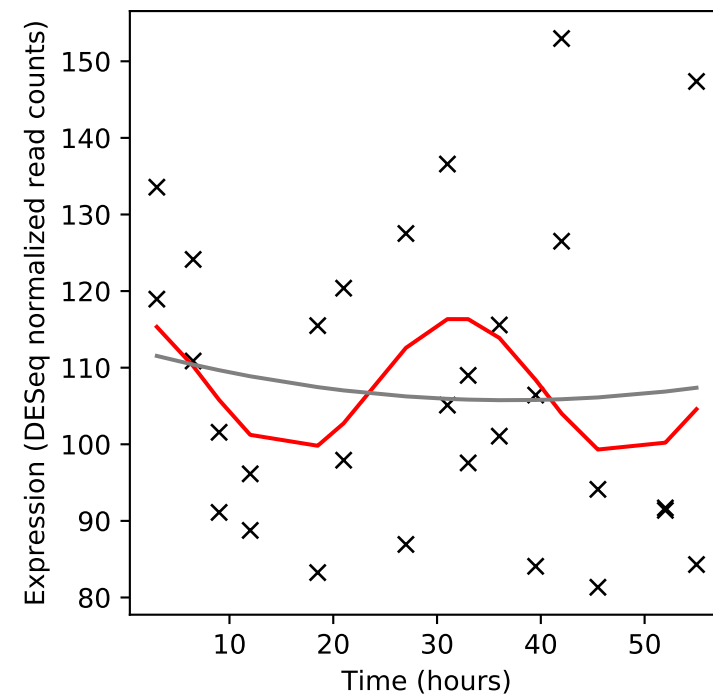
Rv1872c/lldD2



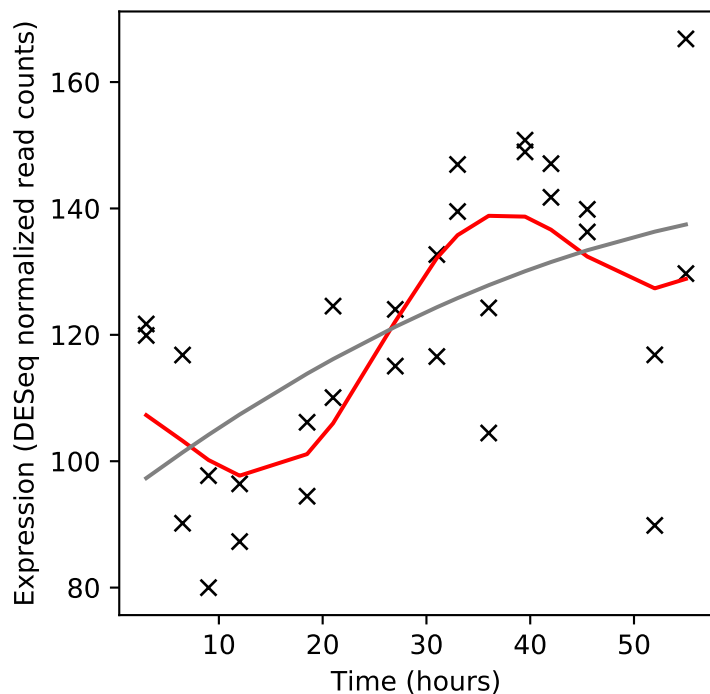
Rv1873/-



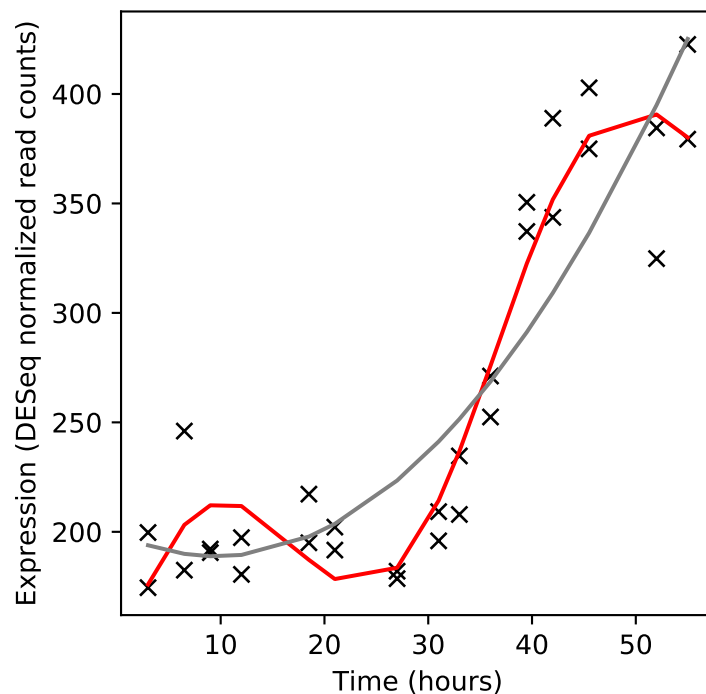
Rv1874/-



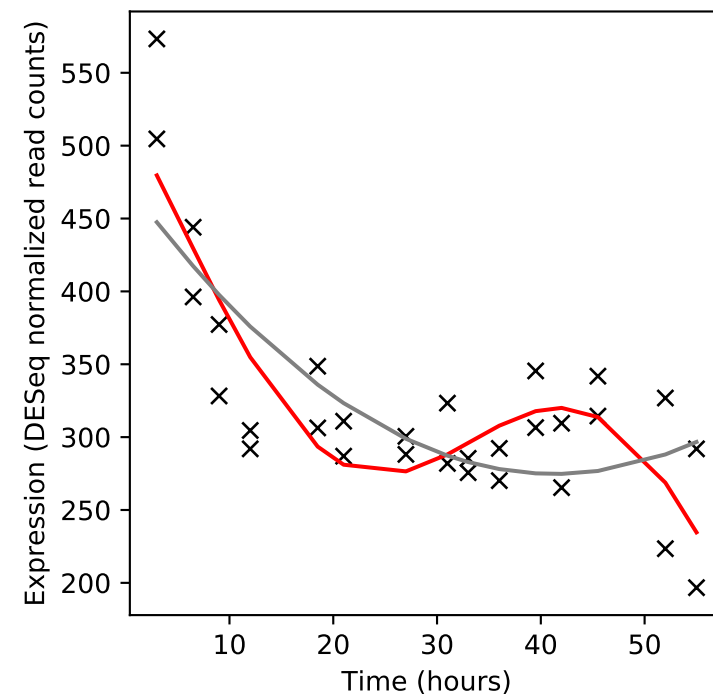
Rv1875/-



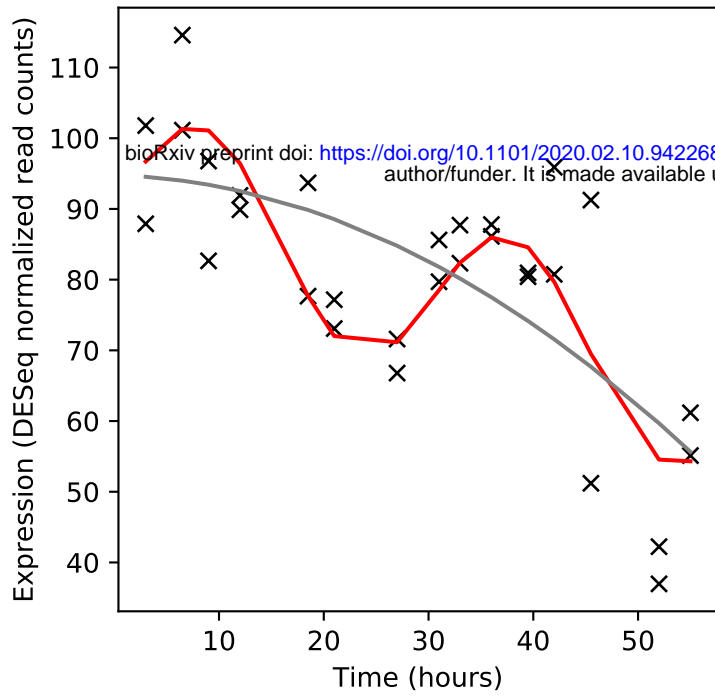
Rv1876/bfrA



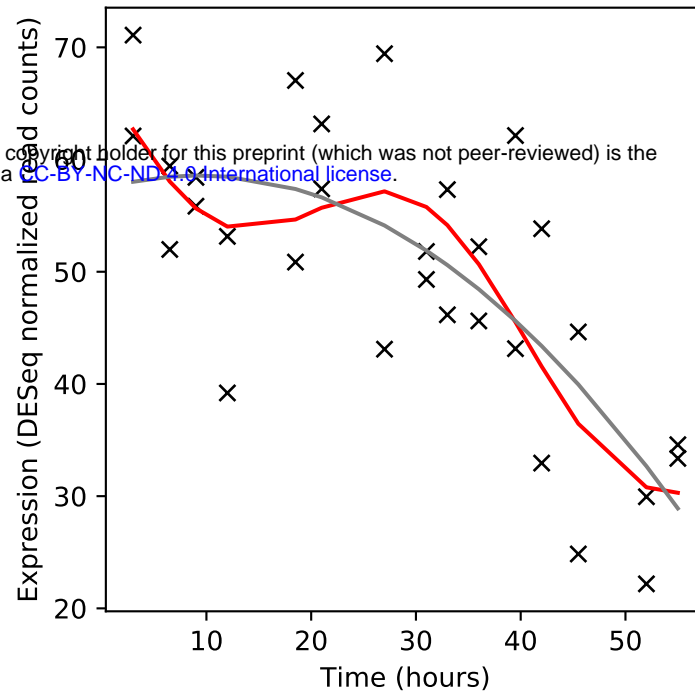
Rv1877/-



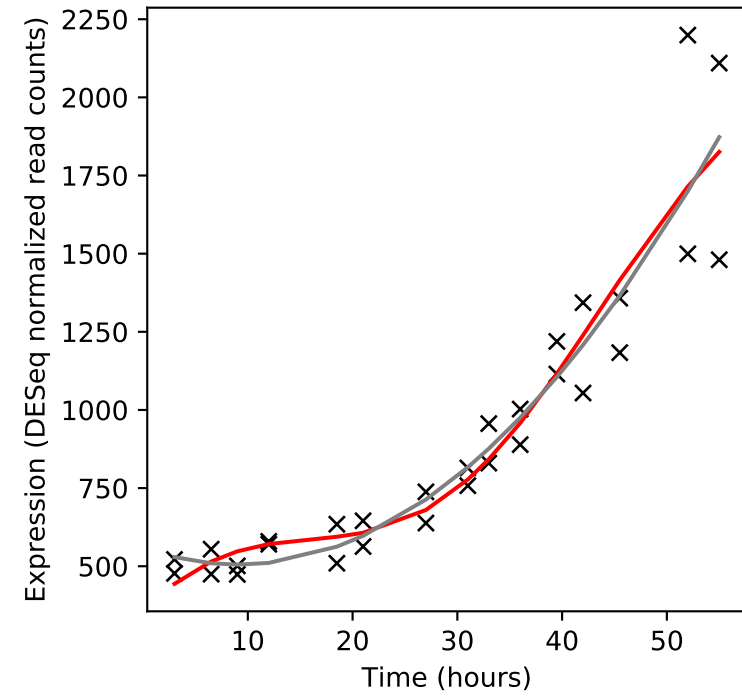
Rv1878/glnA3



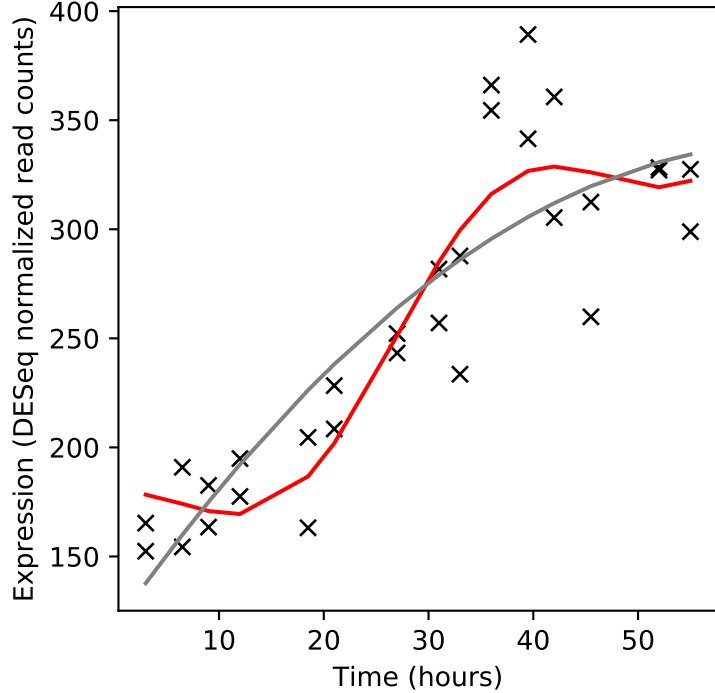
Rv1879/-



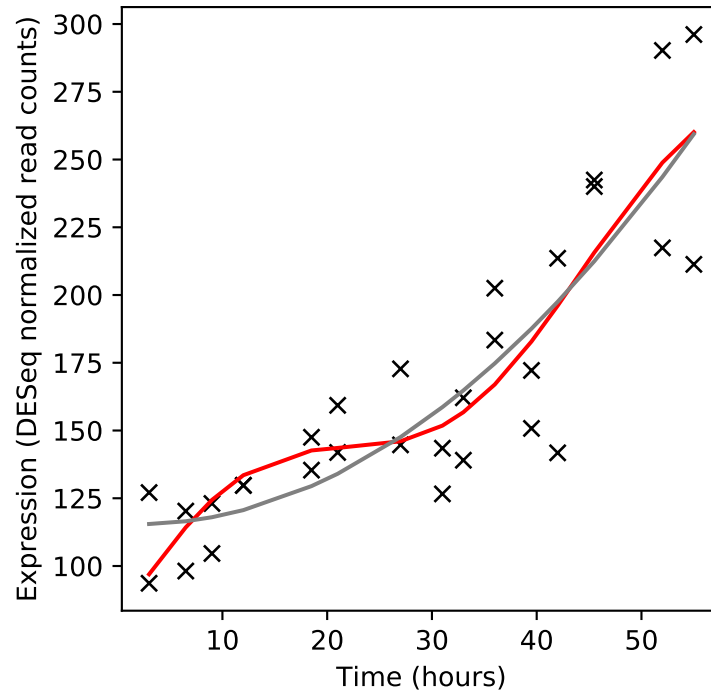
Rv1880c/cyp140



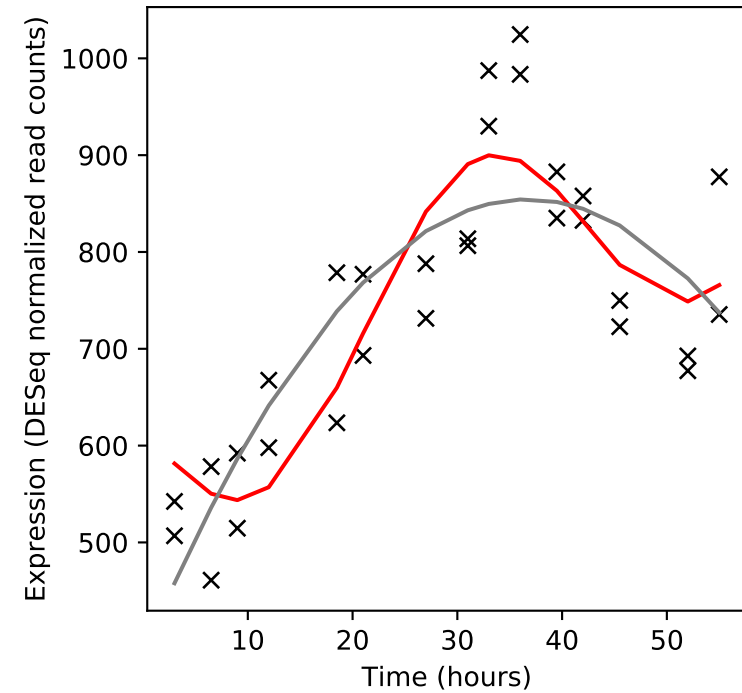
Rv1881c/lppE



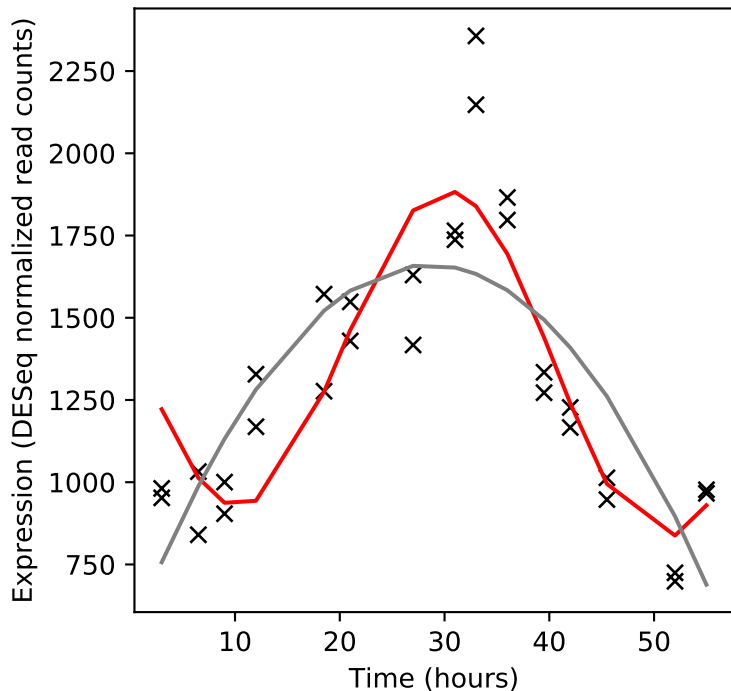
Rv1882c/-



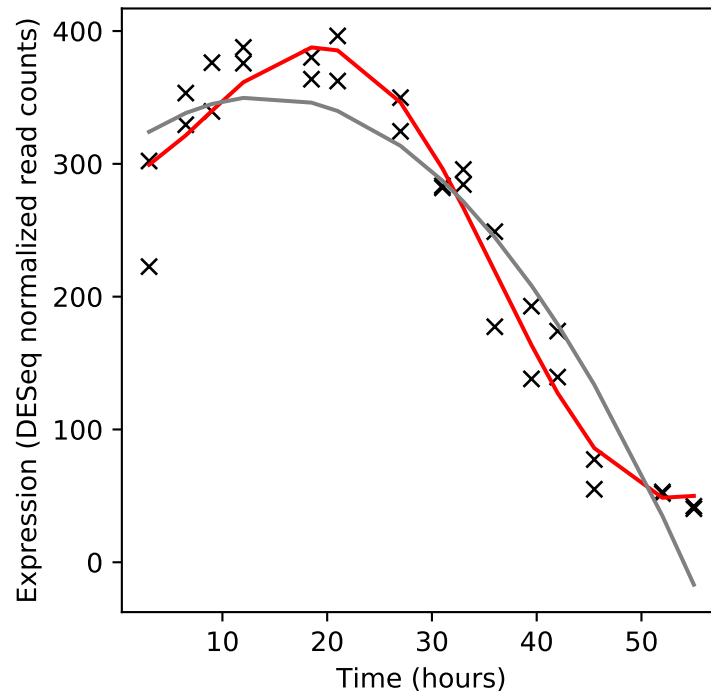
Rv1883c/-



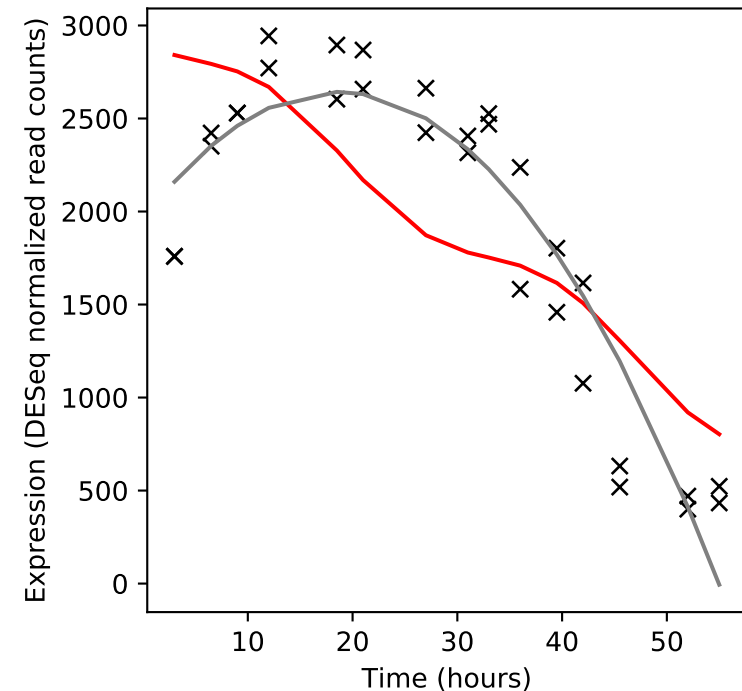
Rv1884c/rpfC



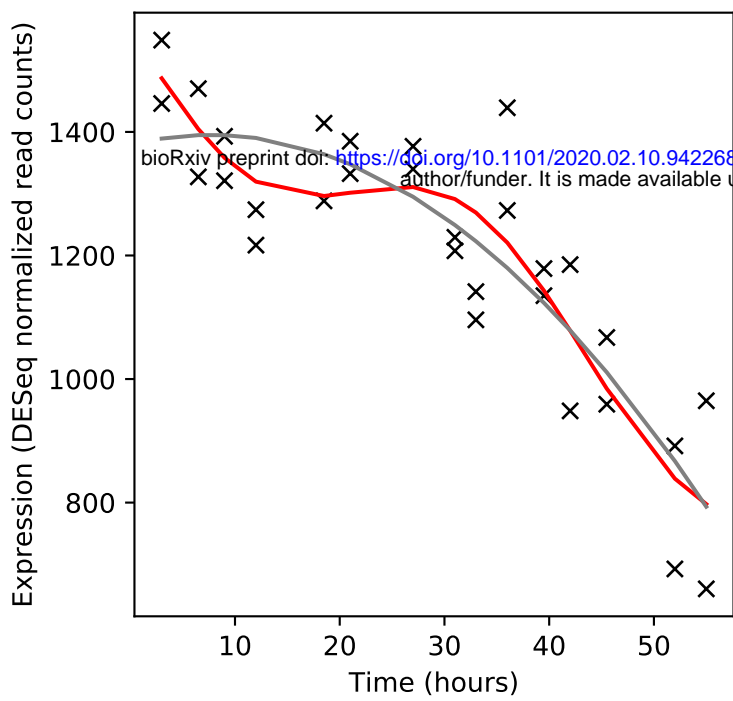
Rv1885c/-



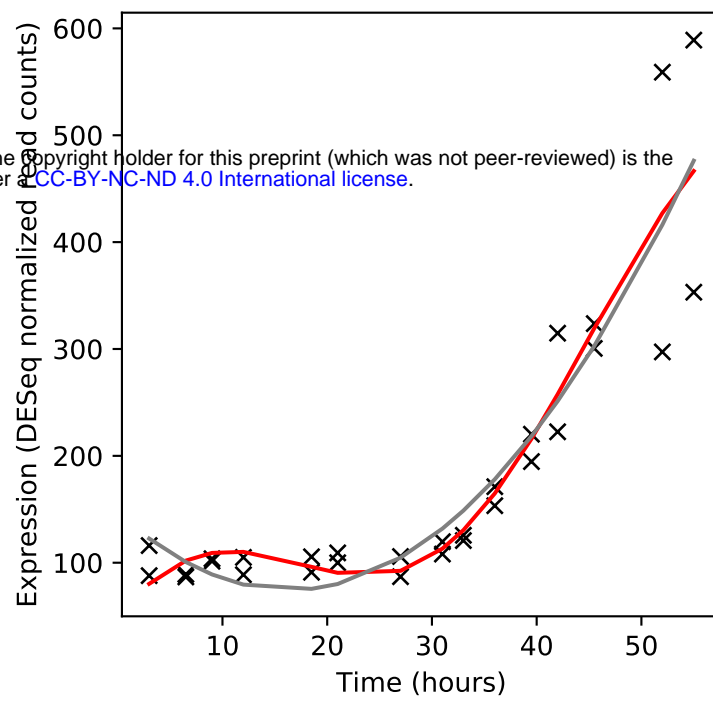
Rv1886c/fbpB



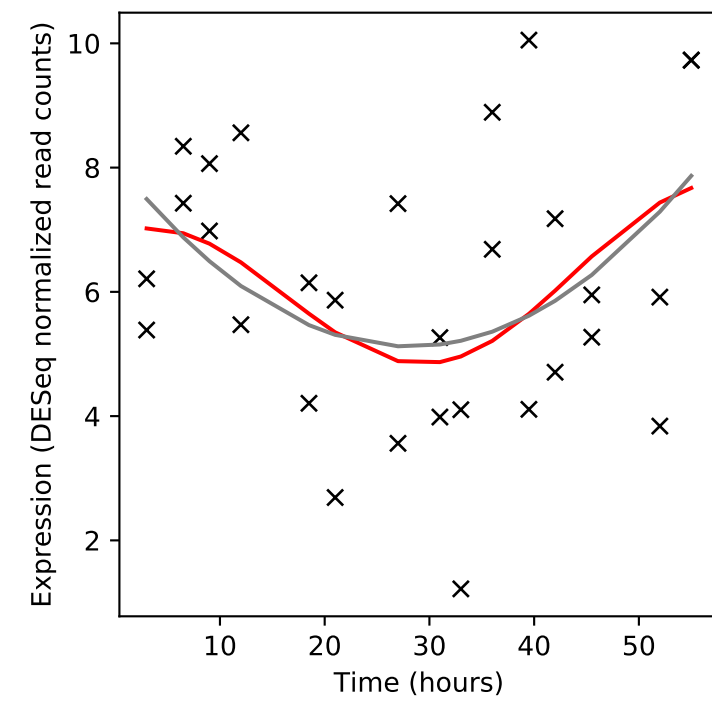
Rv1887/-



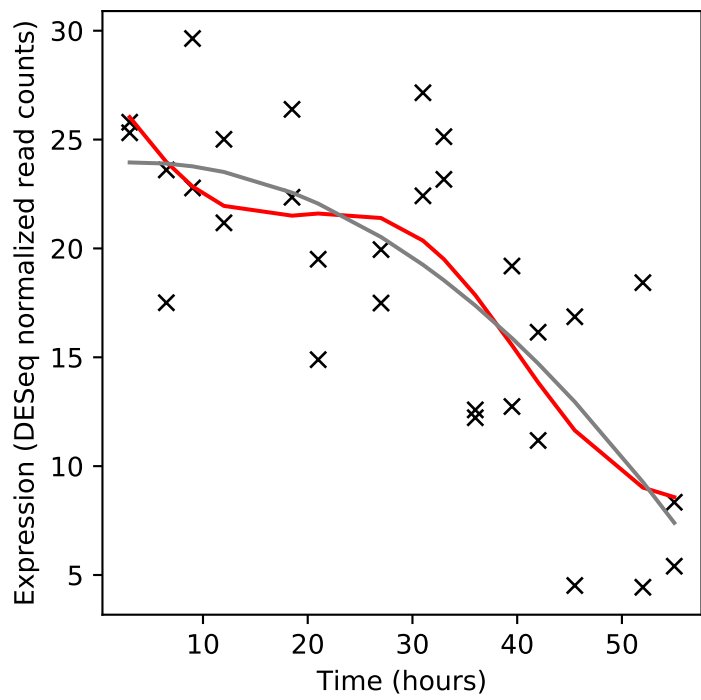
Rv1888c/-



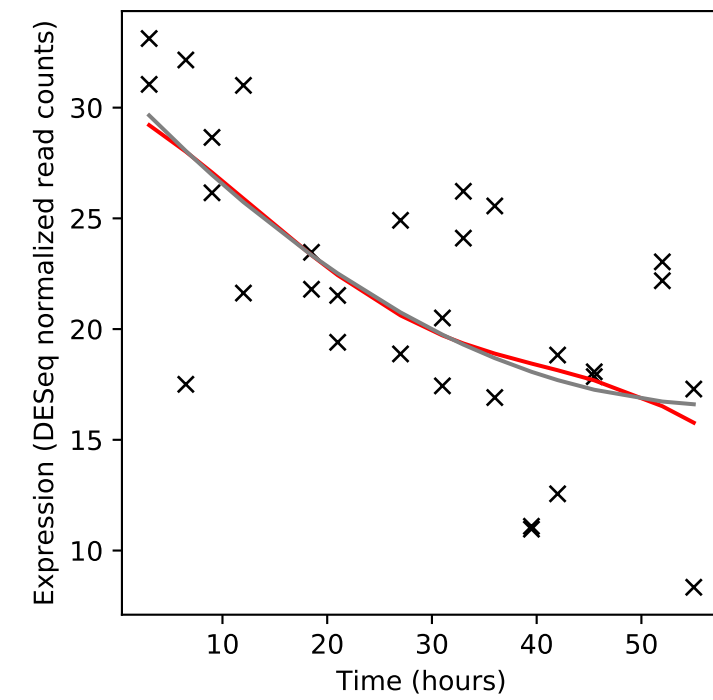
Rv1888A/-



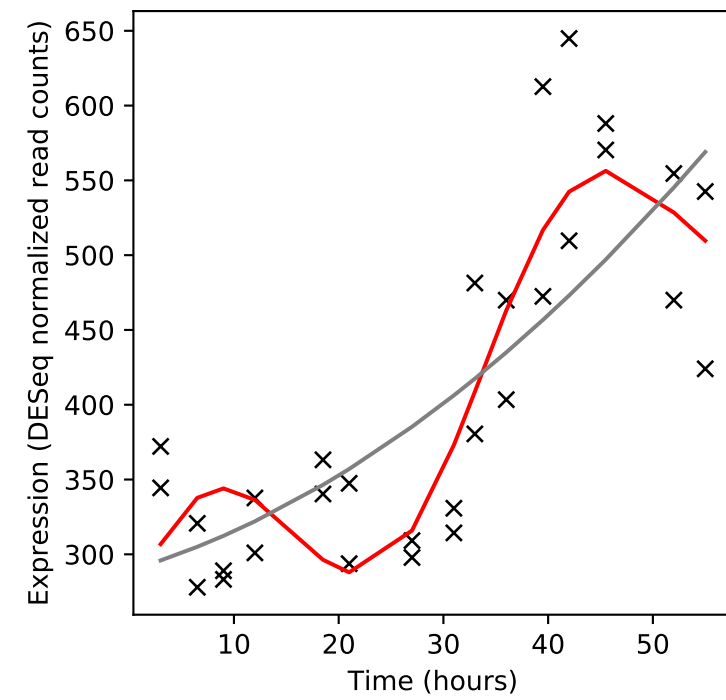
Rv1889c/-



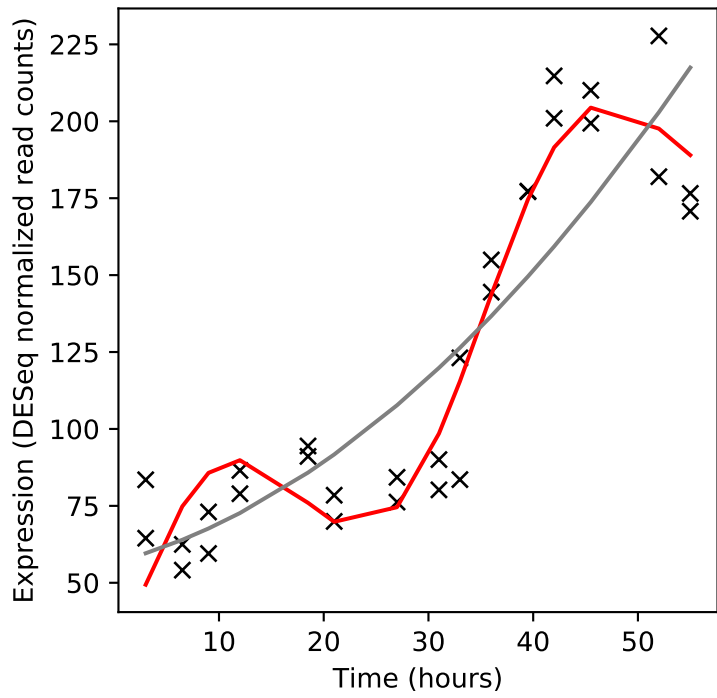
Rv1890c/-



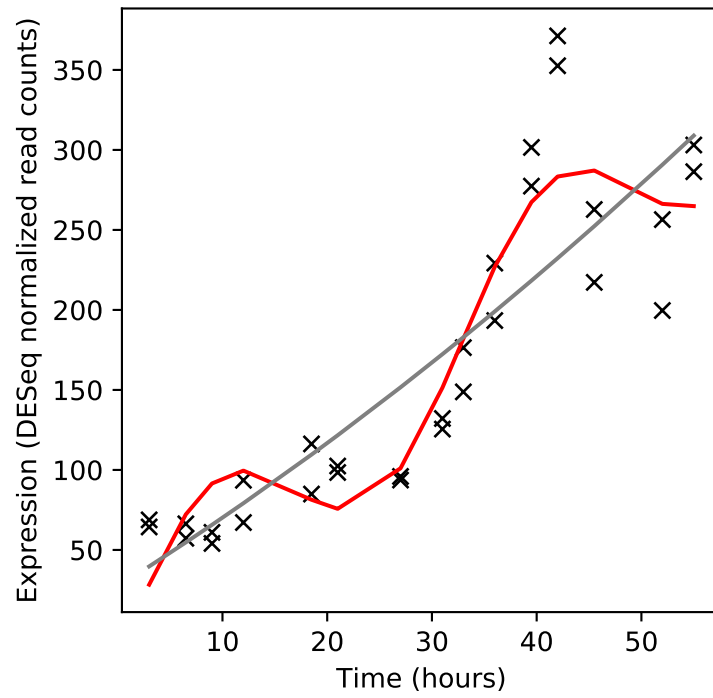
Rv1891/-



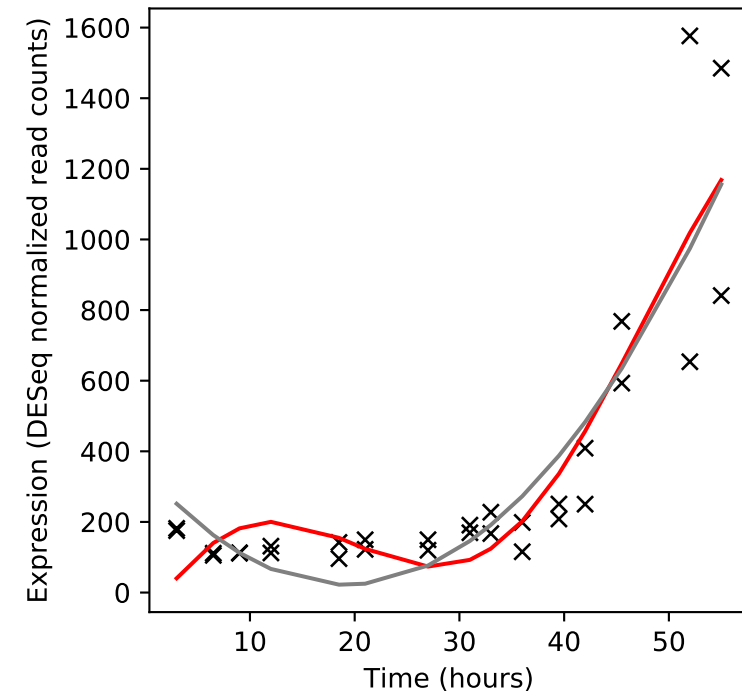
Rv1892/-



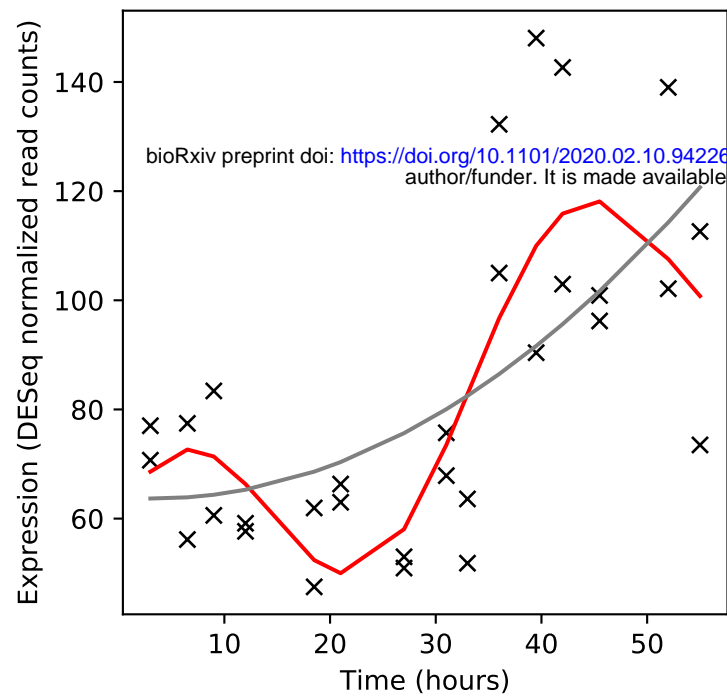
Rv1893/-



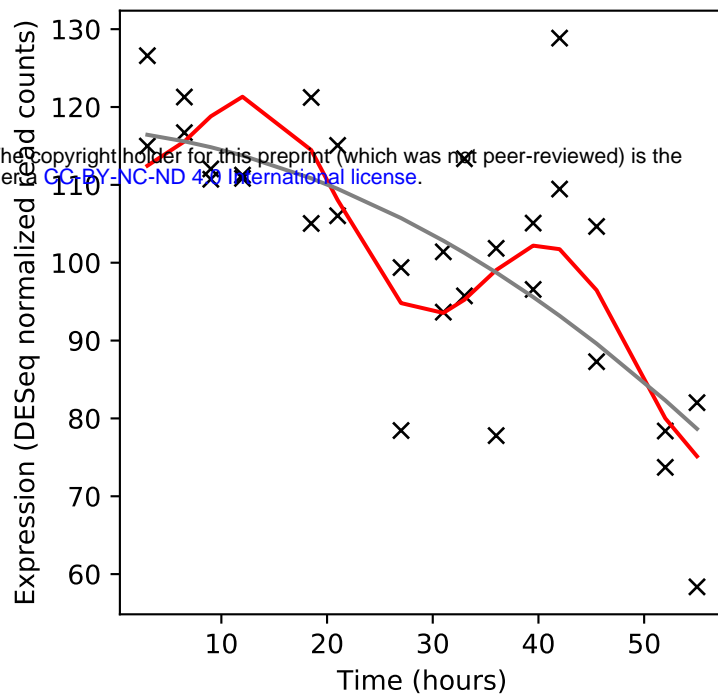
Rv1894c/-



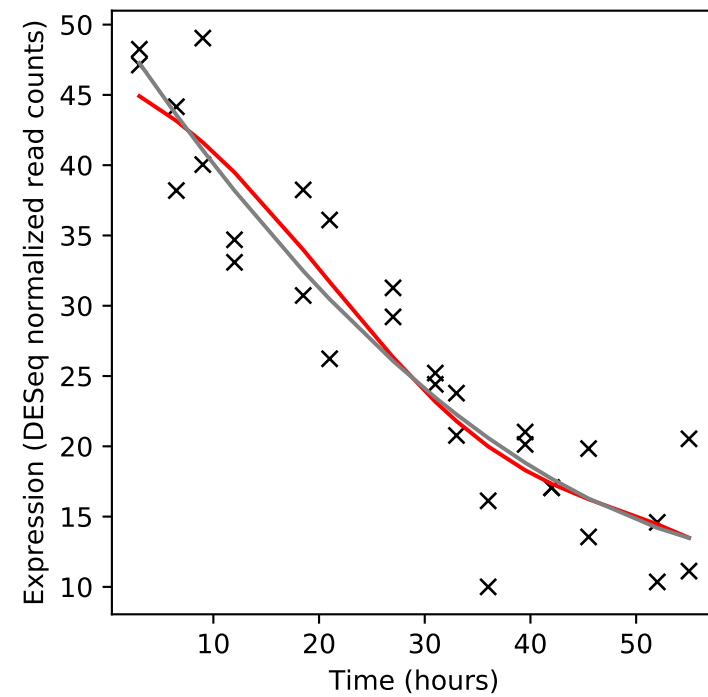
Rv1895/-



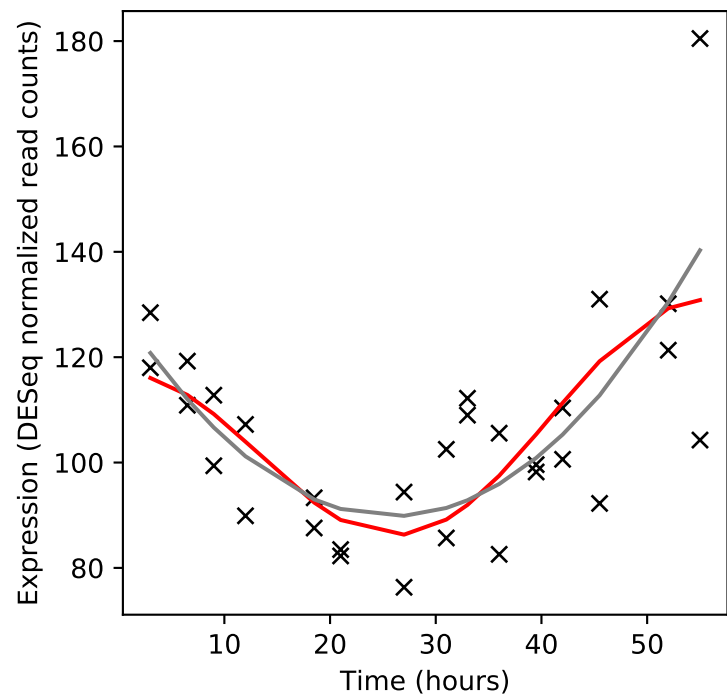
Rv1896c/-



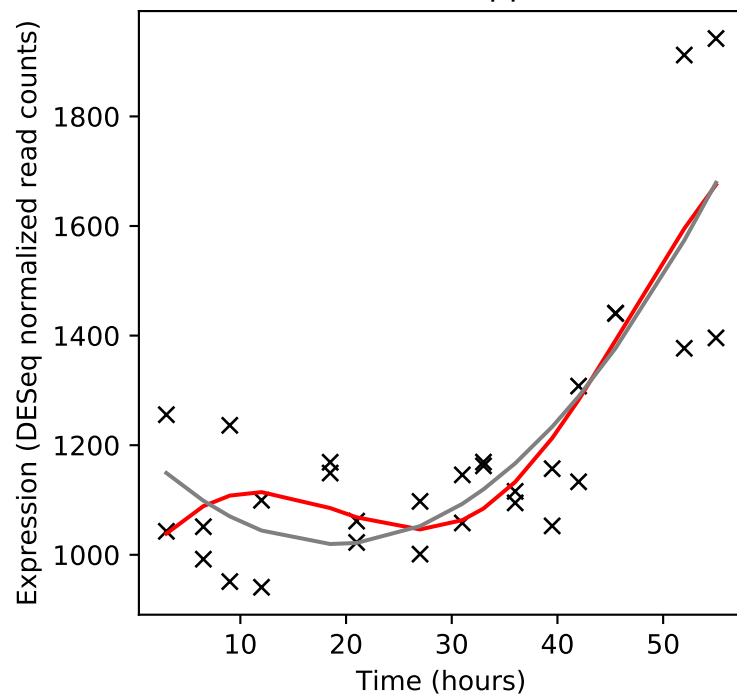
Rv1897c/-



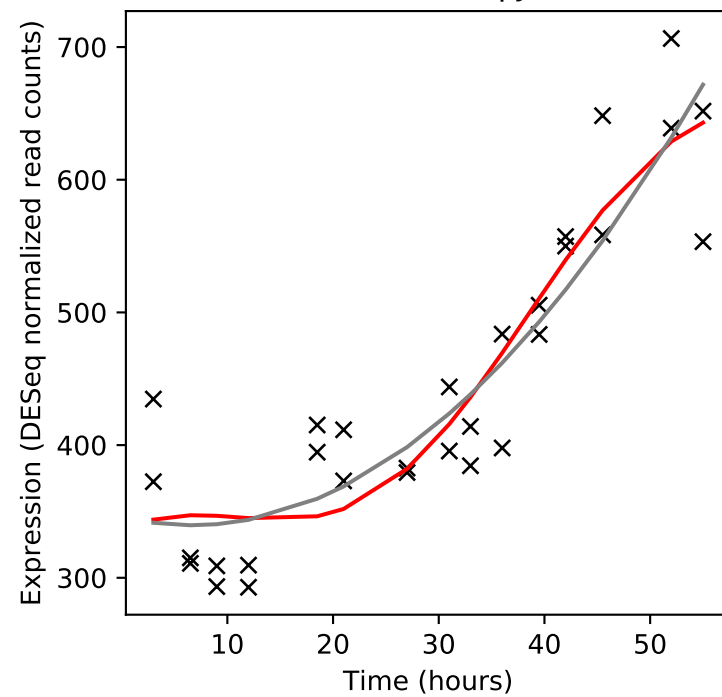
Rv1898/-



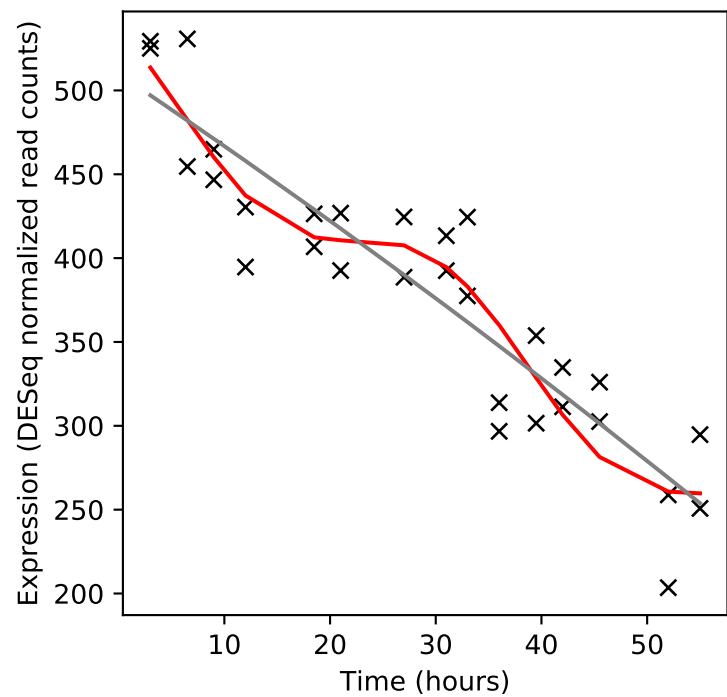
Rv1899c/lppD



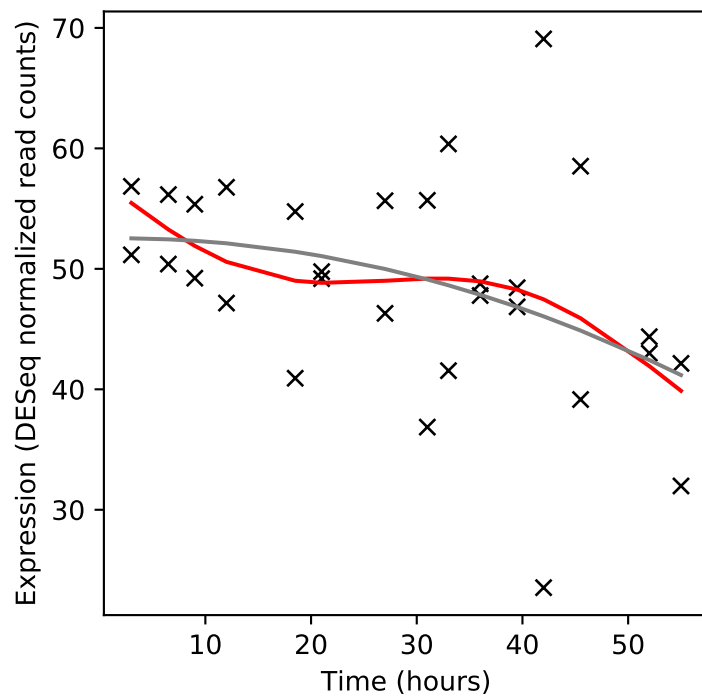
Rv1900c/lipJ



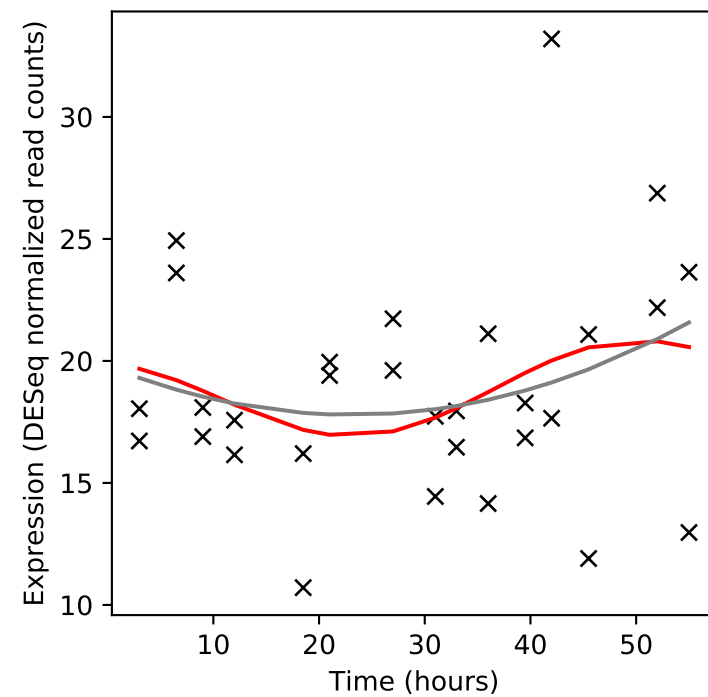
Rv1901/cinA



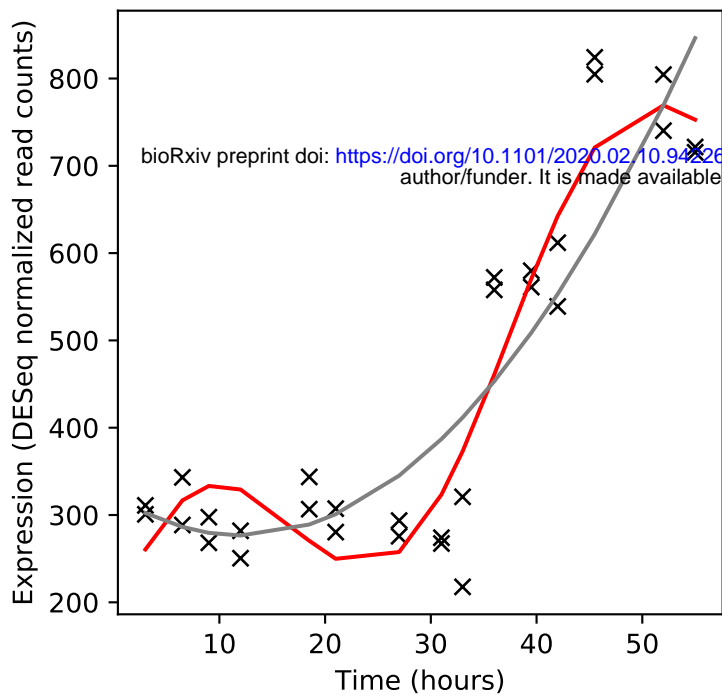
Rv1902c/nanT



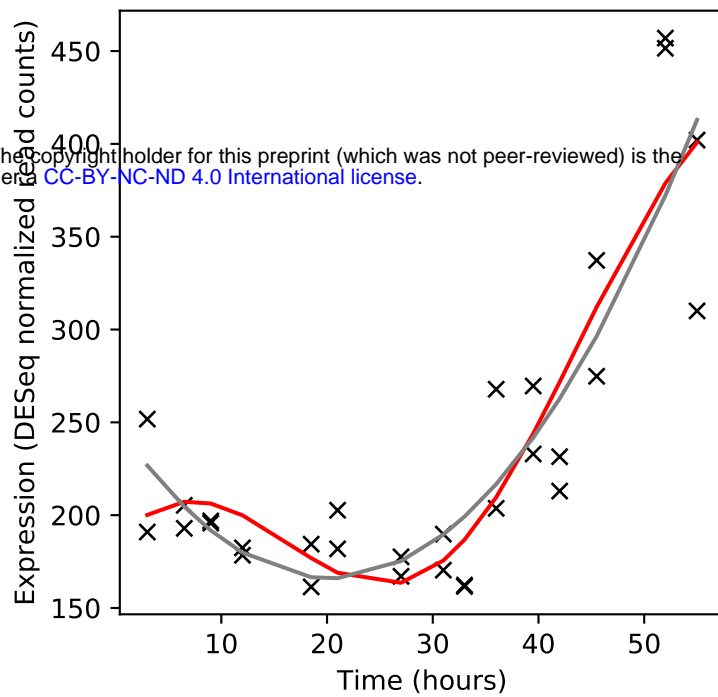
Rv1903/-



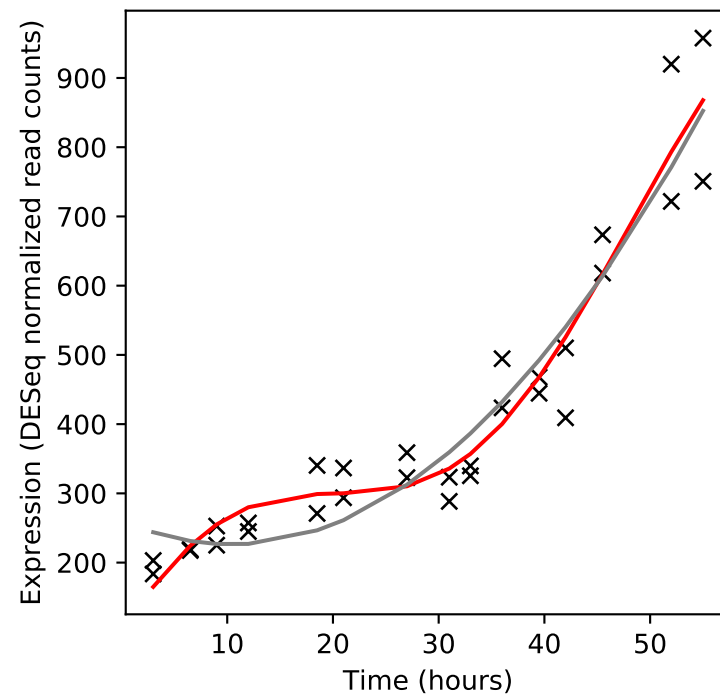
Rv1904/-



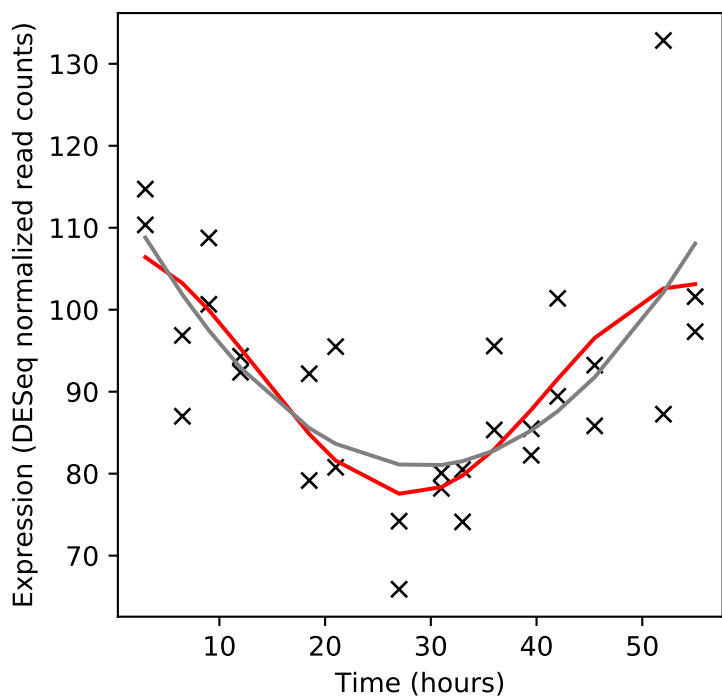
Rv1905c/aa0



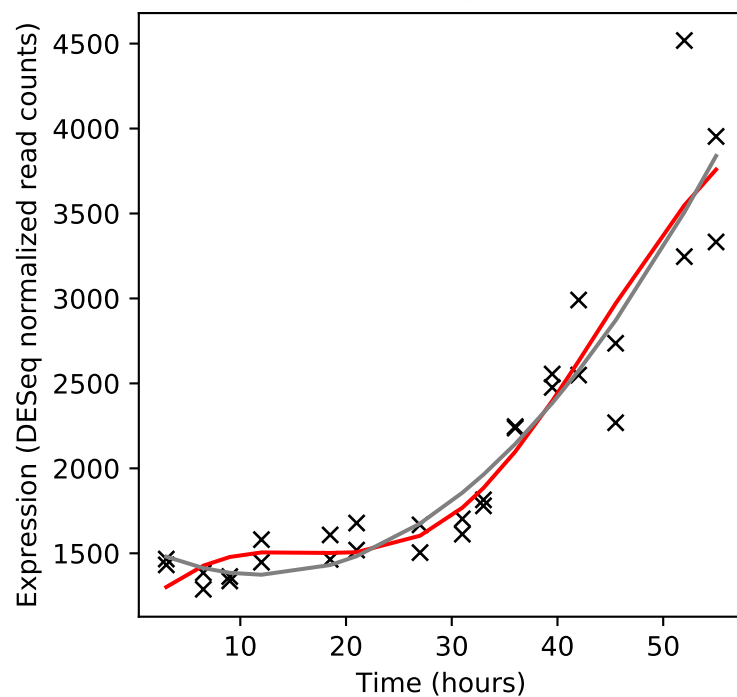
Rv1906c/-



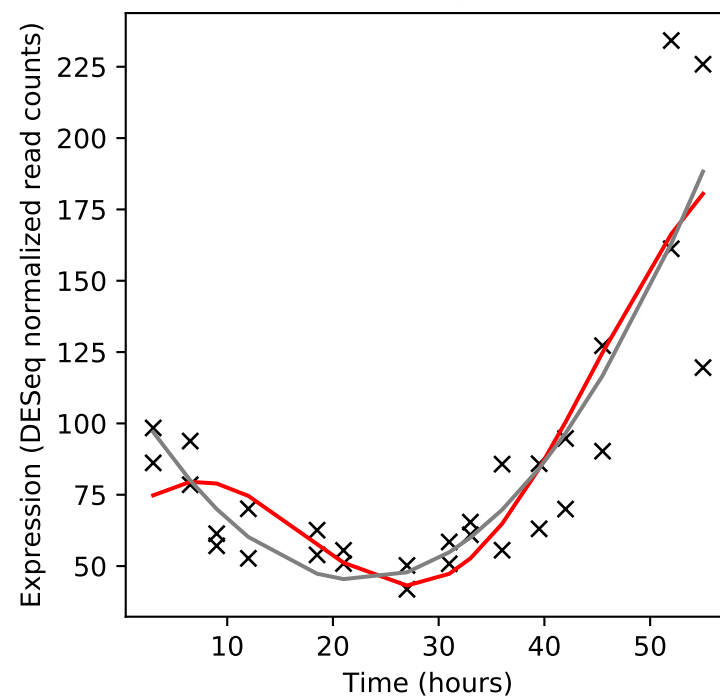
Rv1907c/-



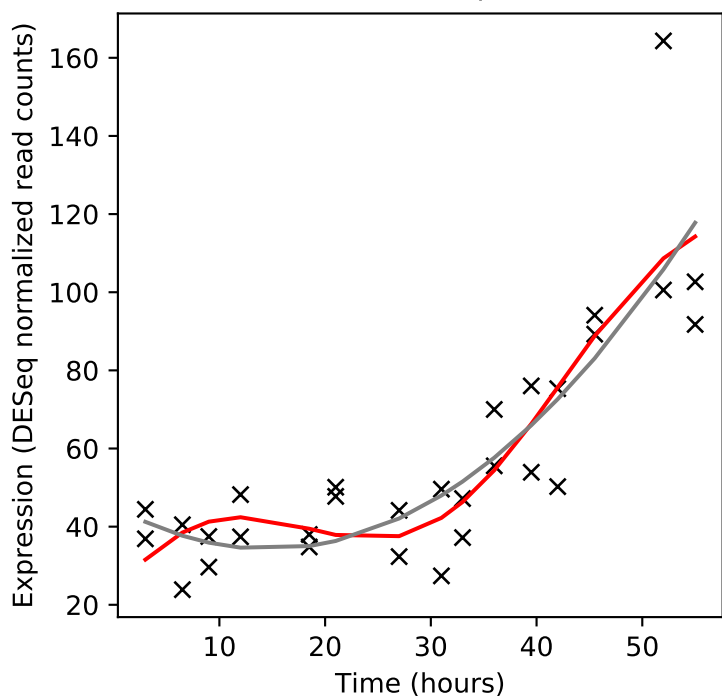
Rv1908c/katG



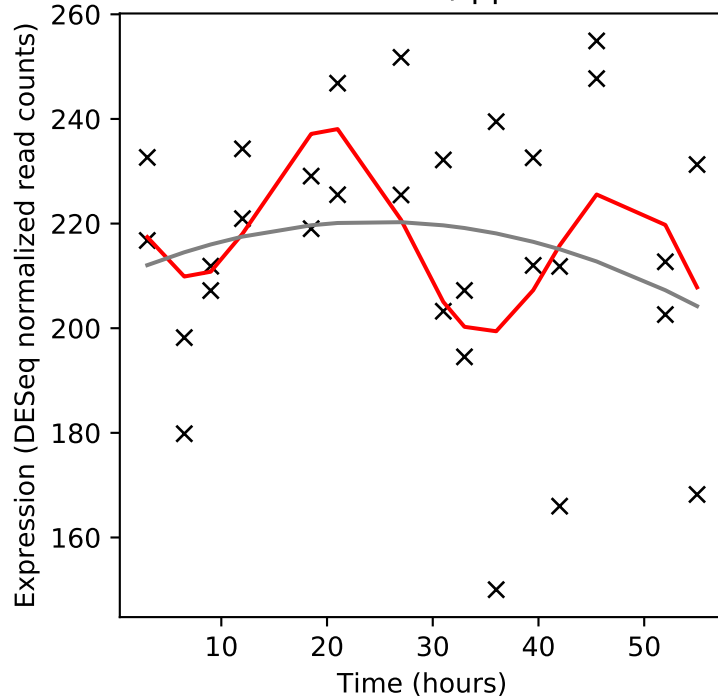
Rv1909c/furA



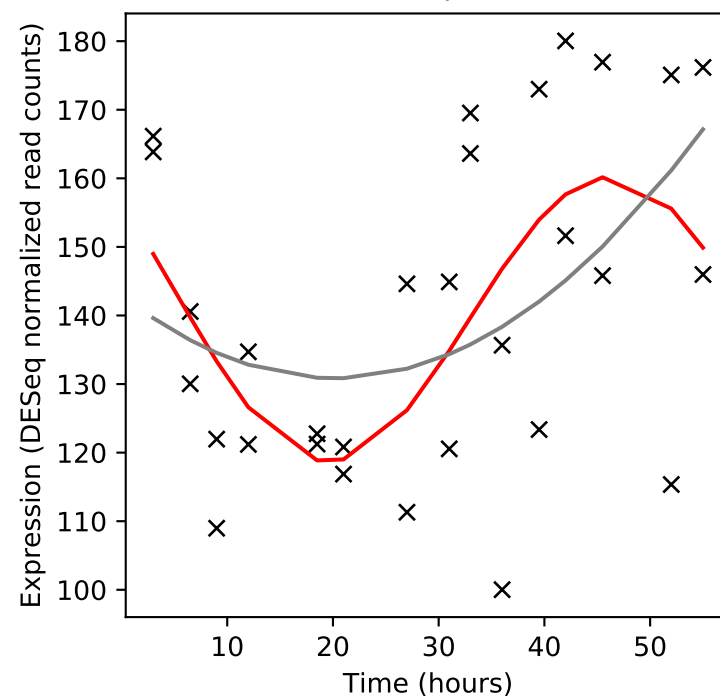
Rv1910c/-

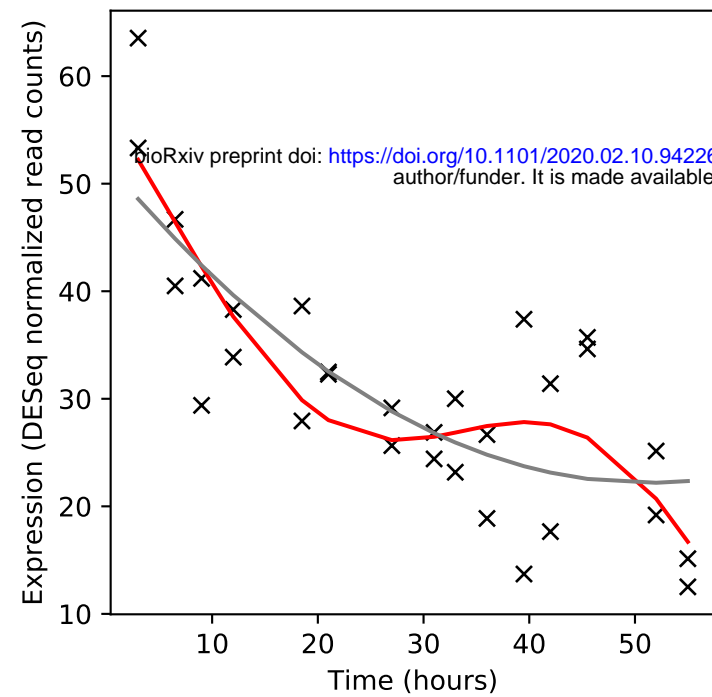
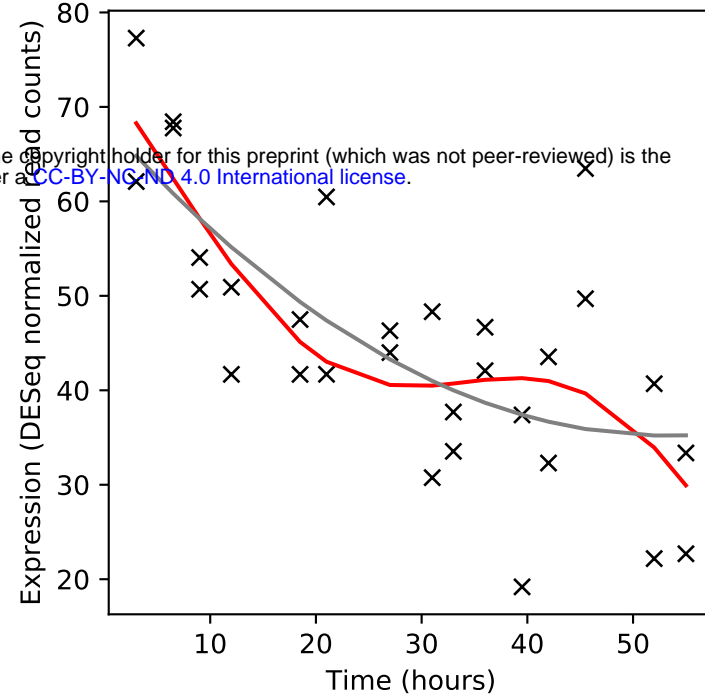
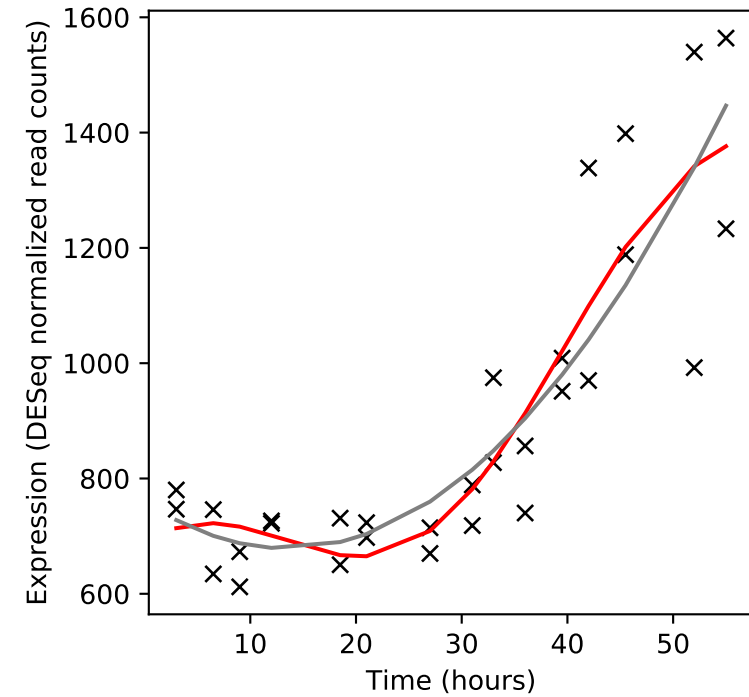
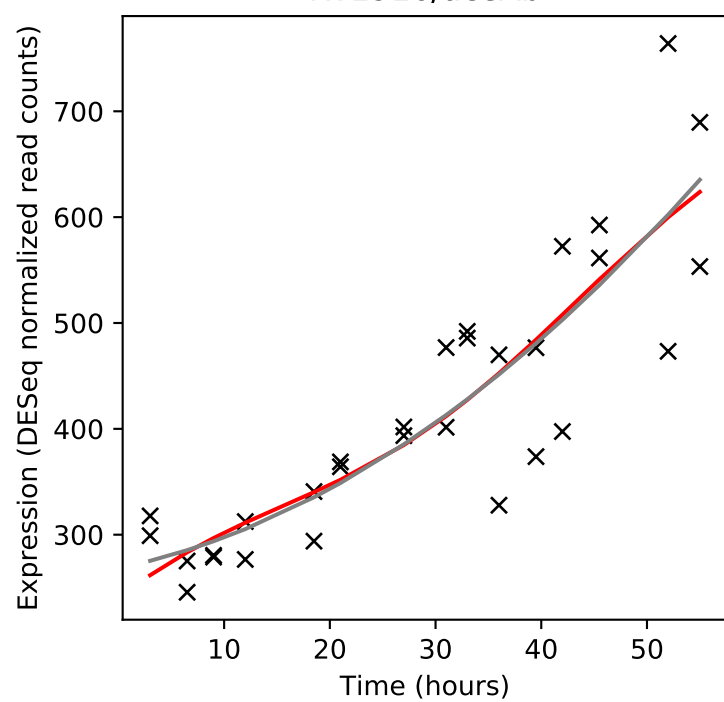
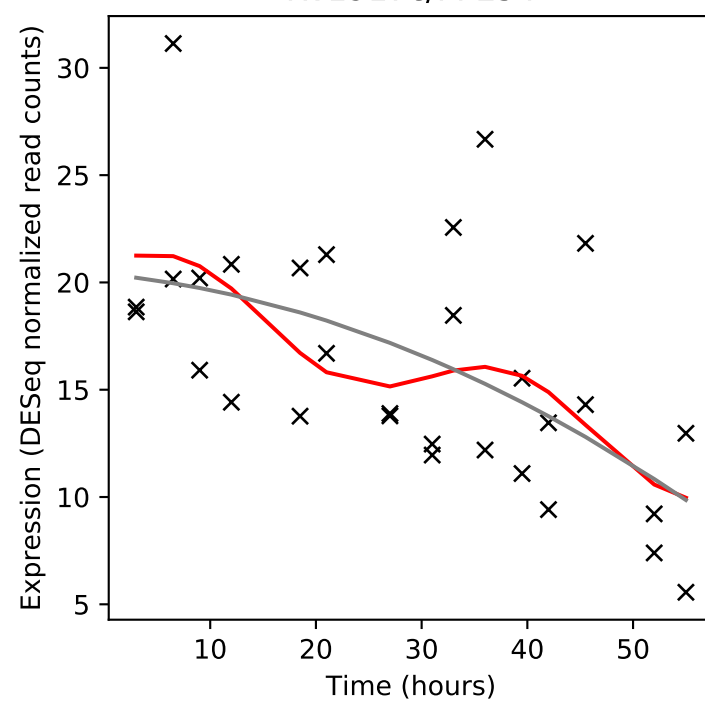
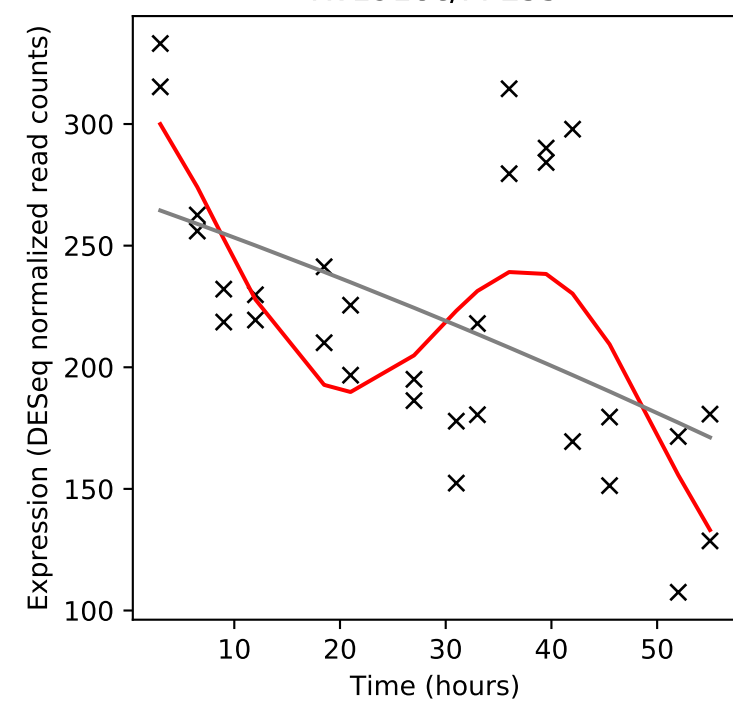
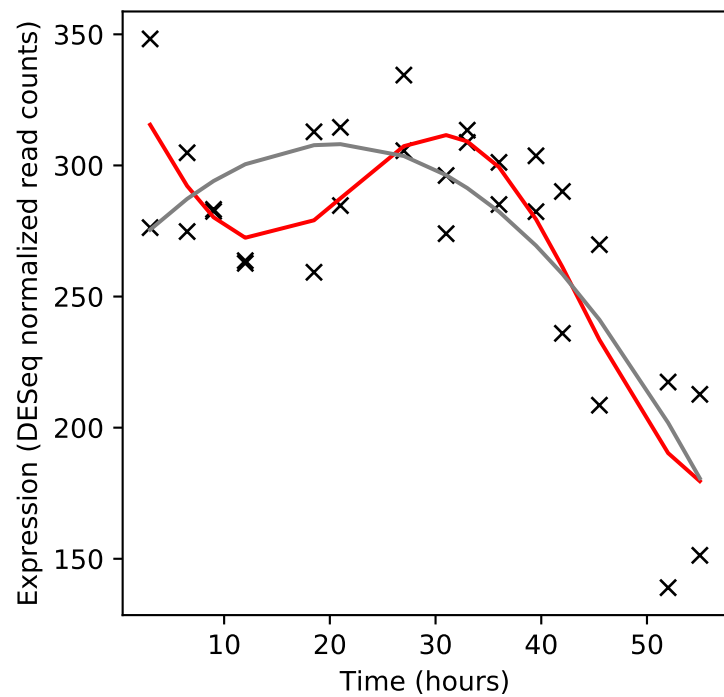
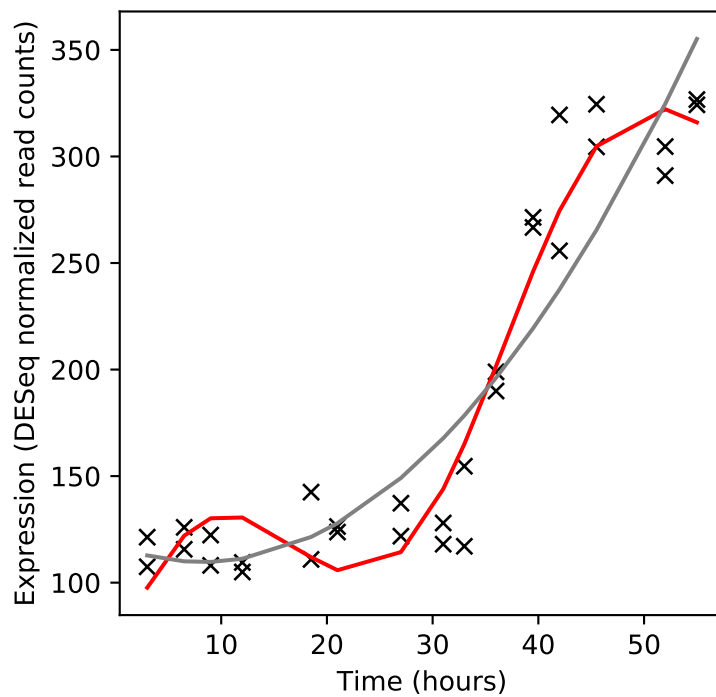
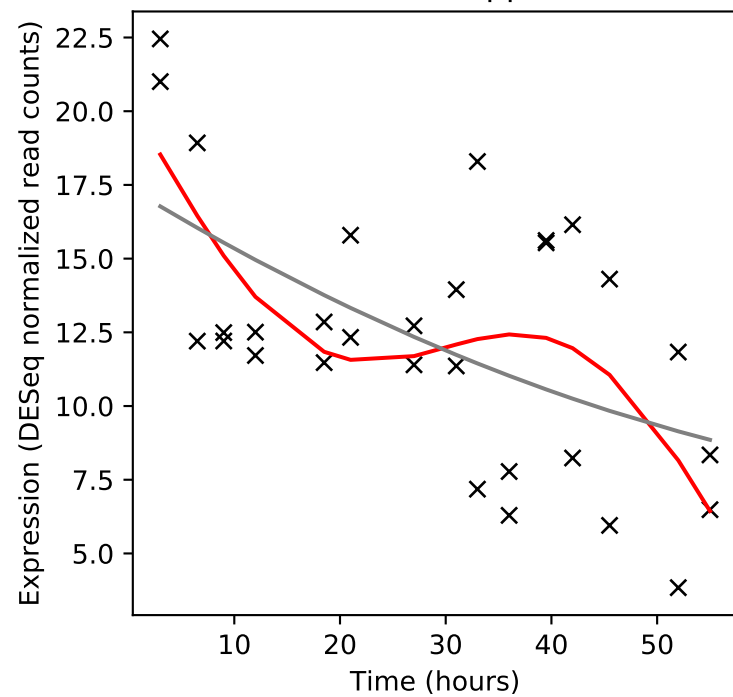


Rv1911c/lppC

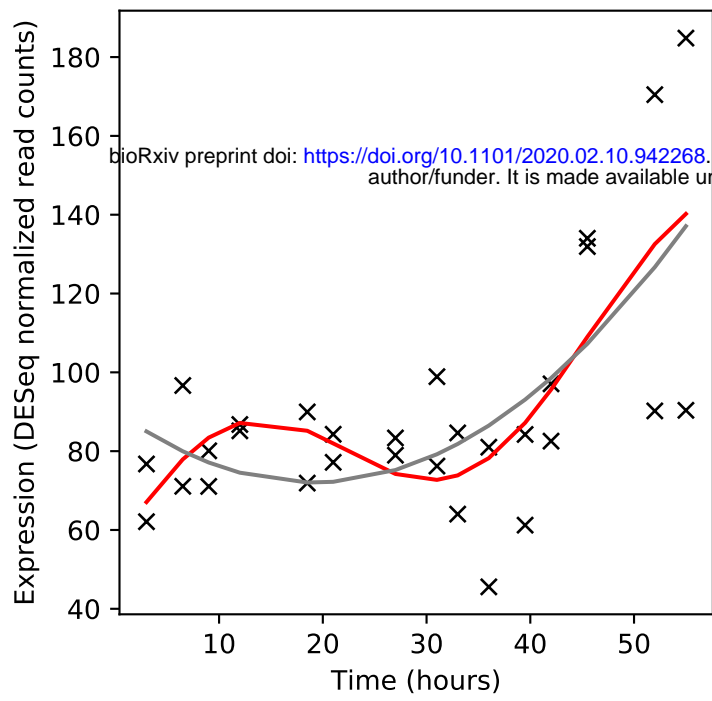


Rv1912c/fadB5

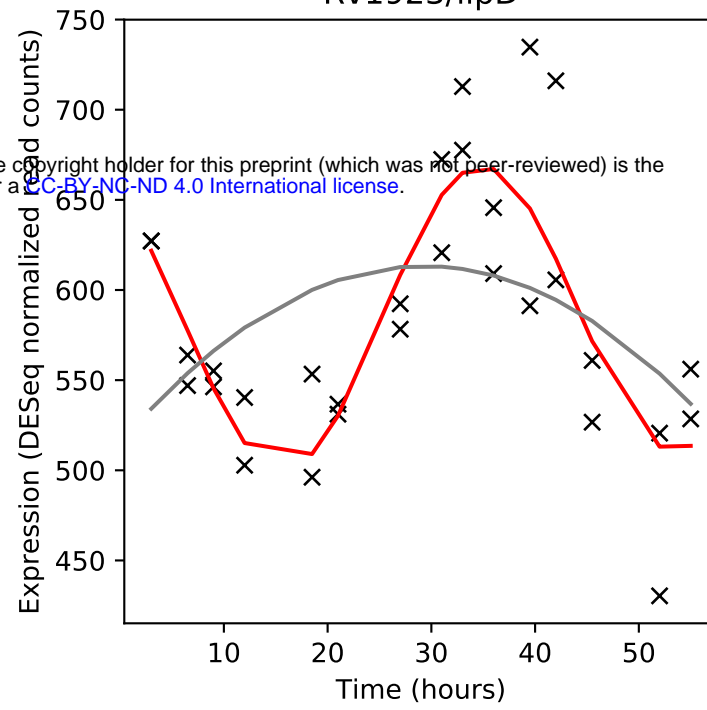


Rv1913/-**Rv1914c/-****Rv1915/aceAa****Rv1916/aceAb****Rv1917c/PPE34****Rv1918c/PPE35****Rv1919c/-****Rv1920/-****Rv1921c/lppF**

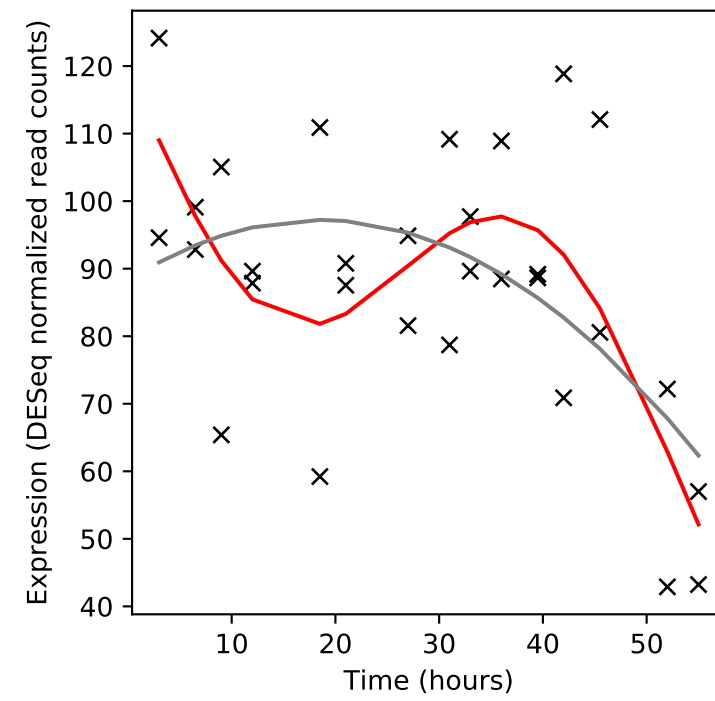
Rv1922/-



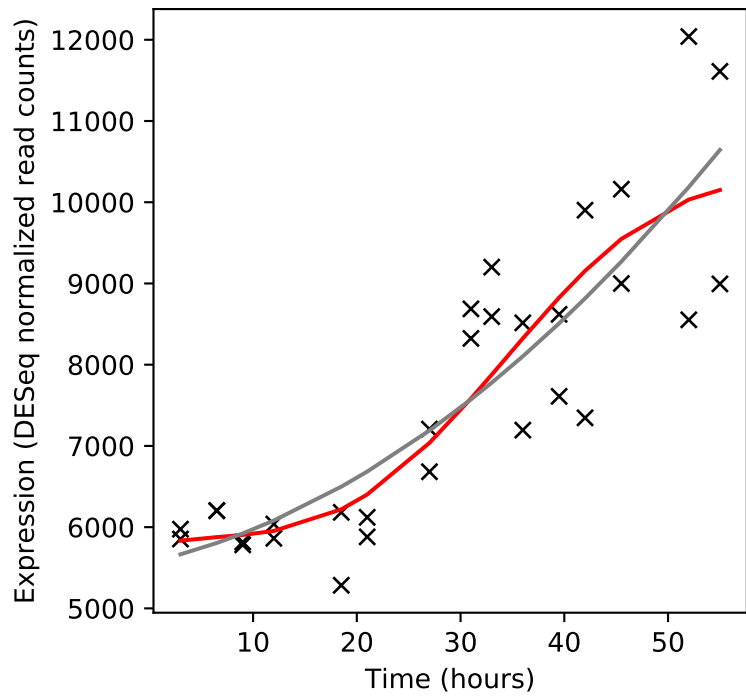
Rv1923/lipD



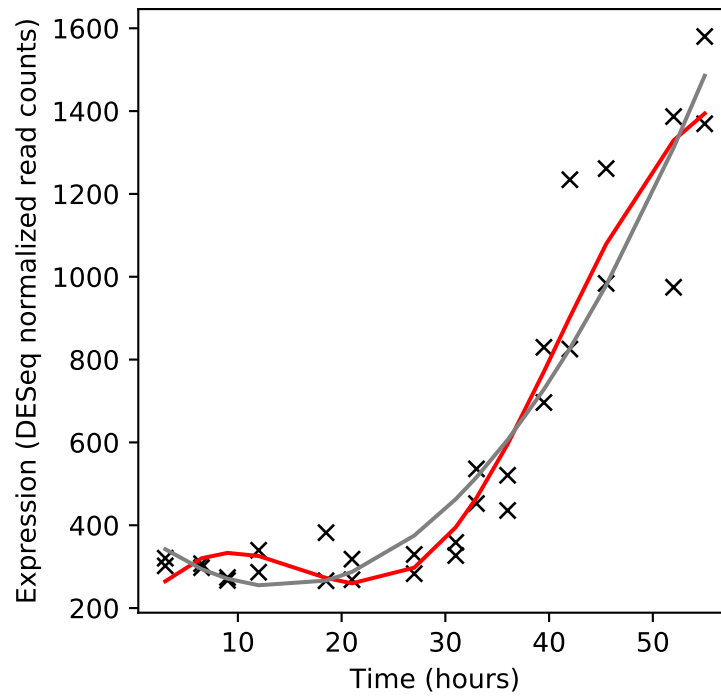
Rv1924c/-



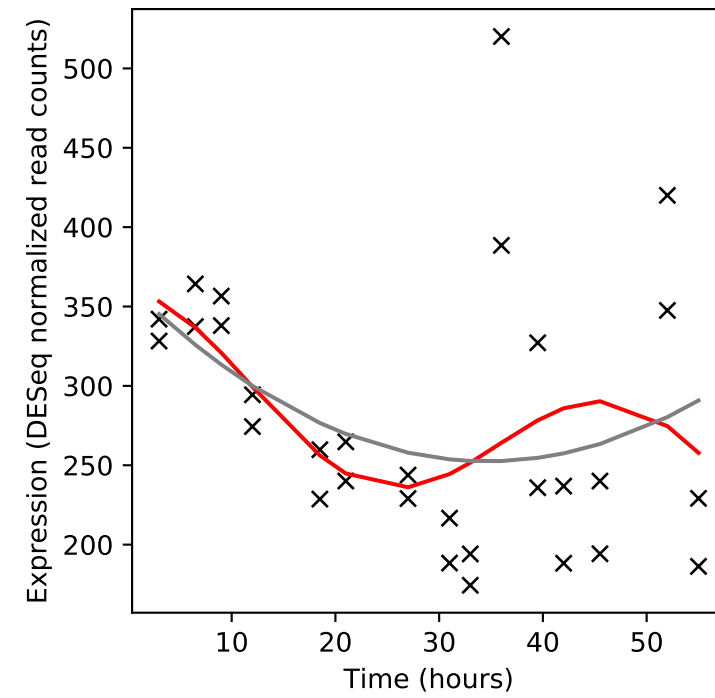
Rv1925/fadD31



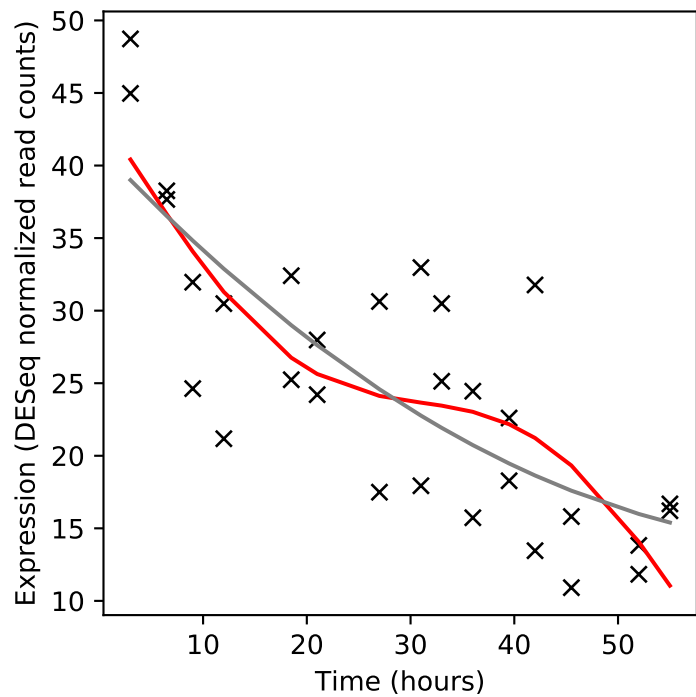
Rv1926c/mpt63



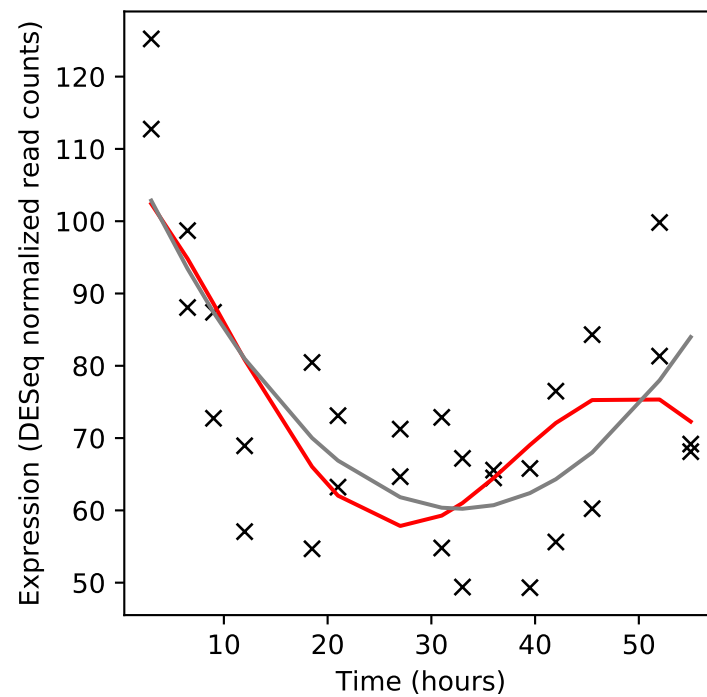
Rv1927/-



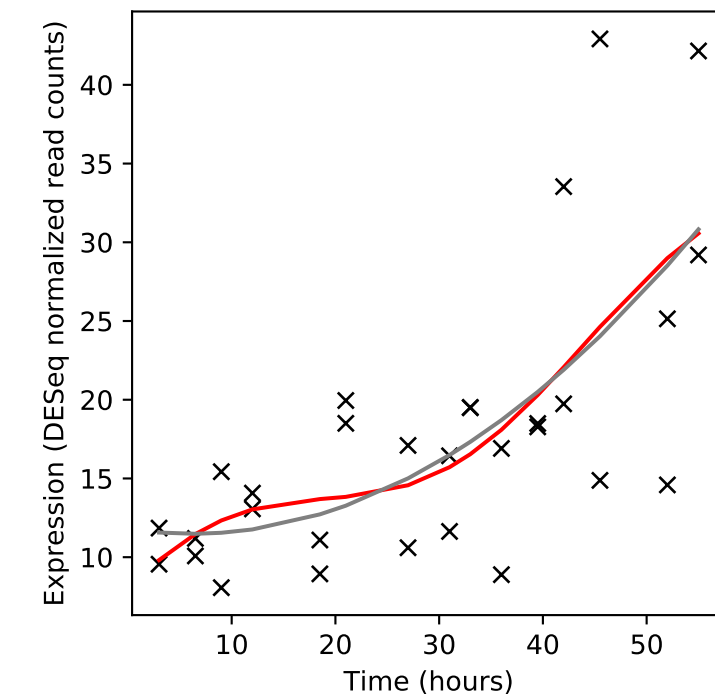
Rv1928c/-

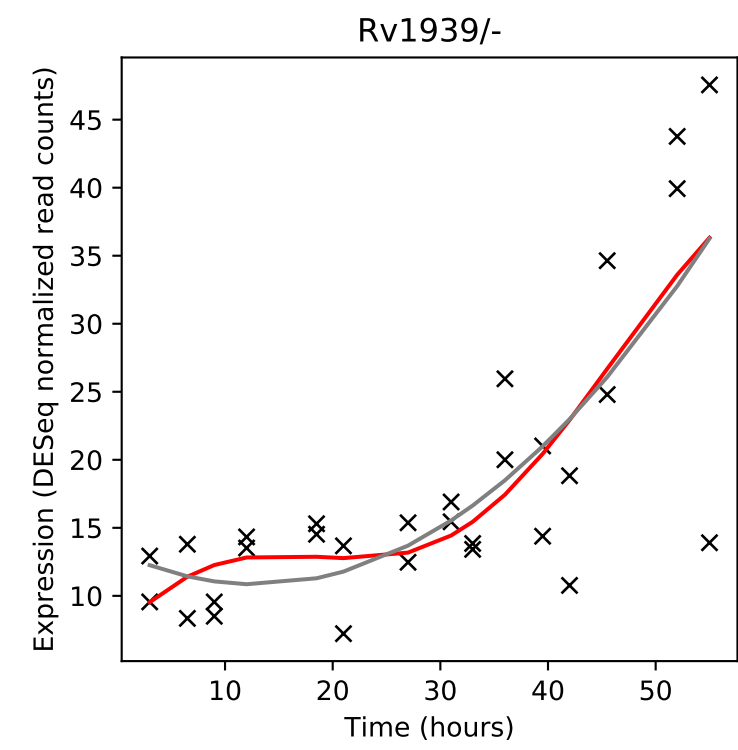
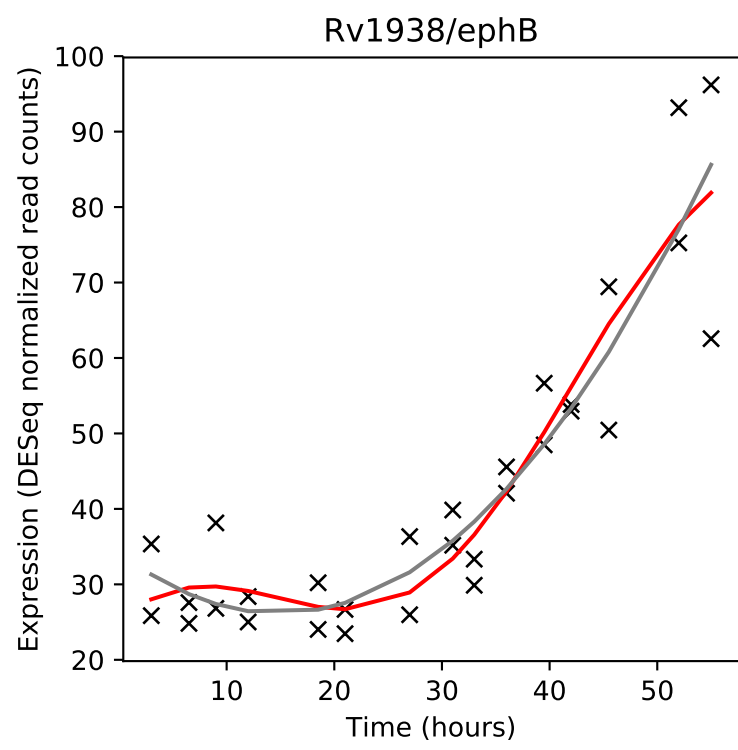
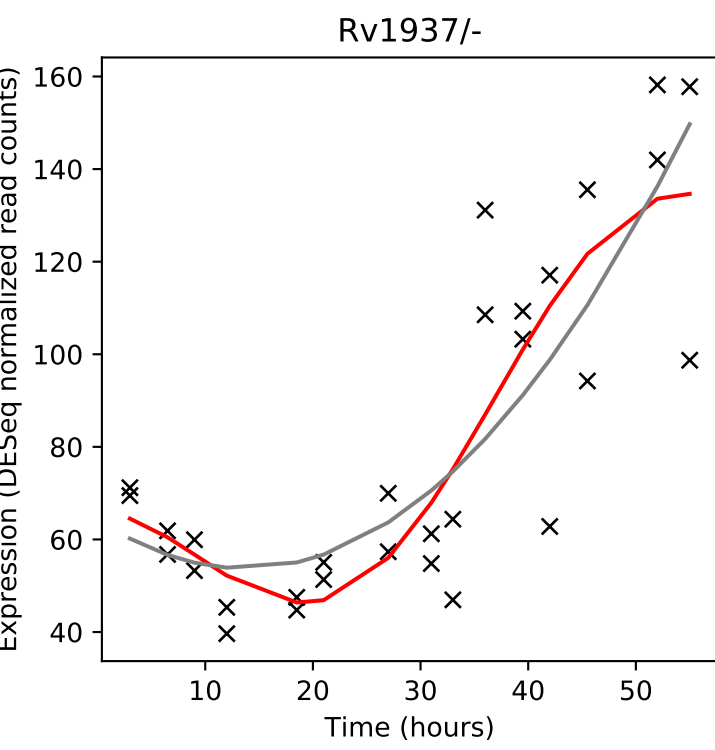
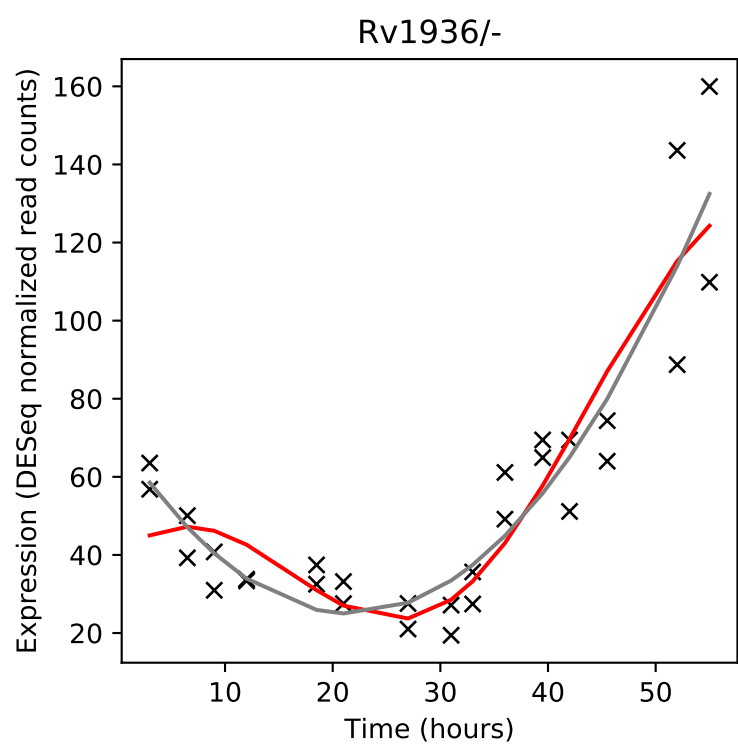
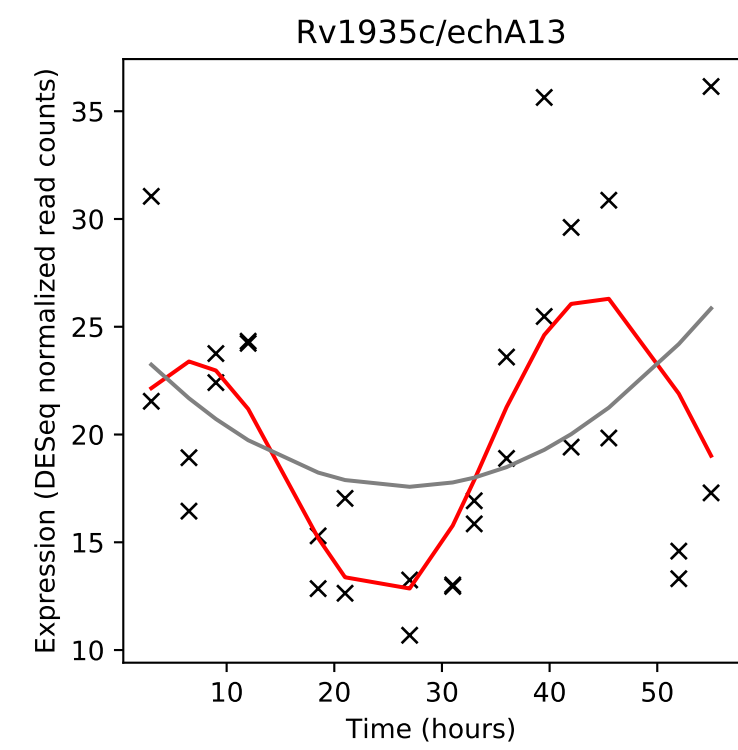
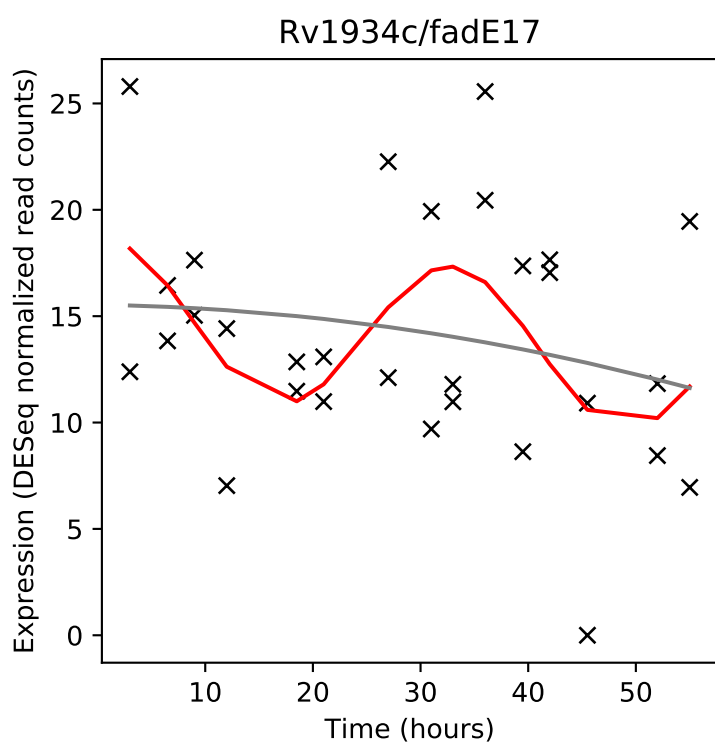
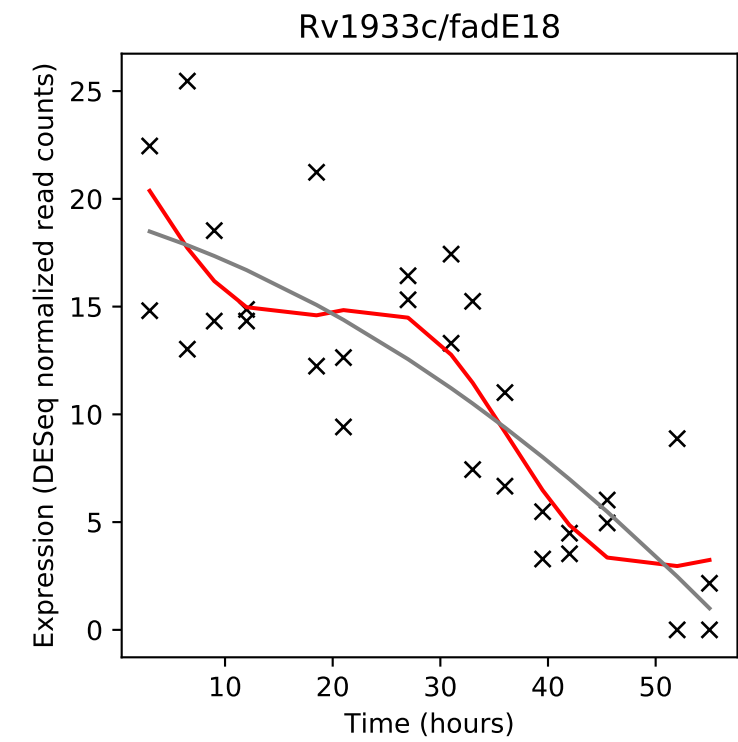
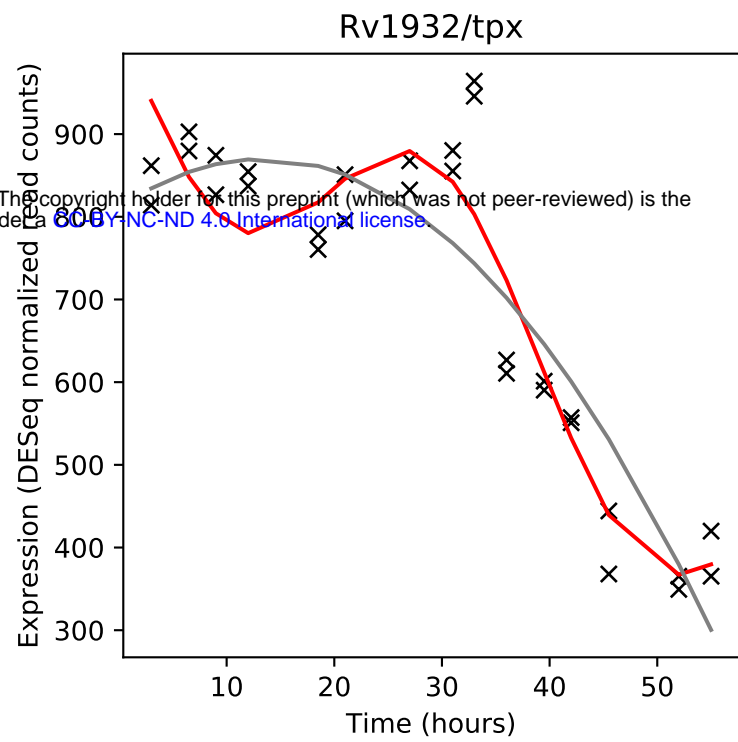
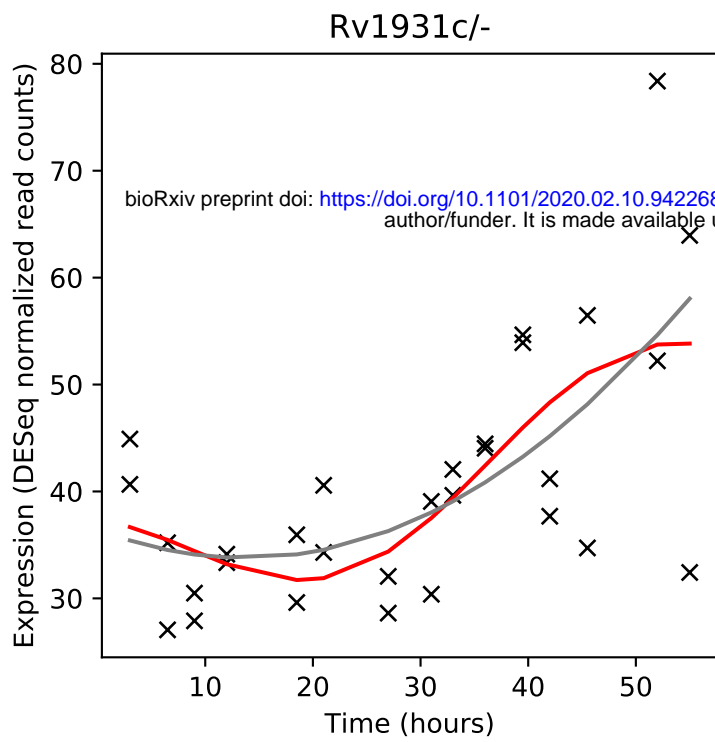


Rv1929c/-

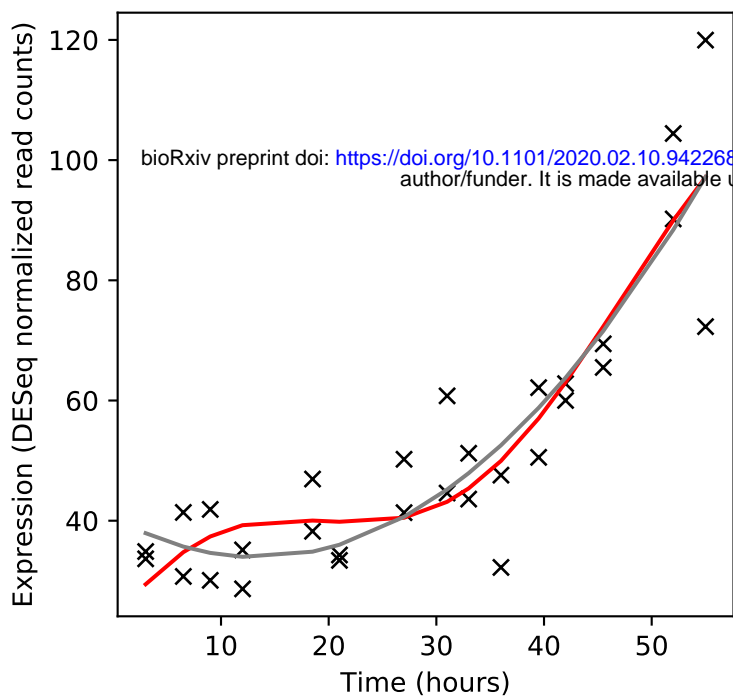


Rv1930c/-

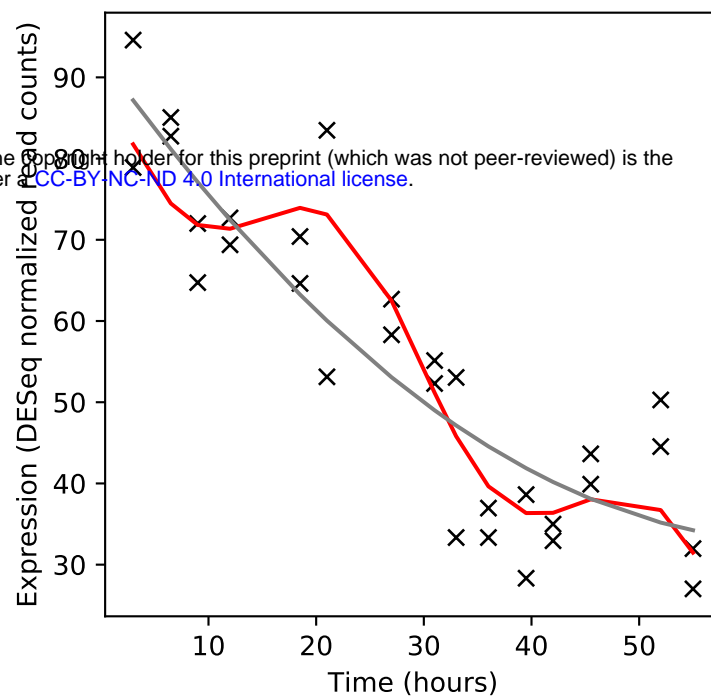




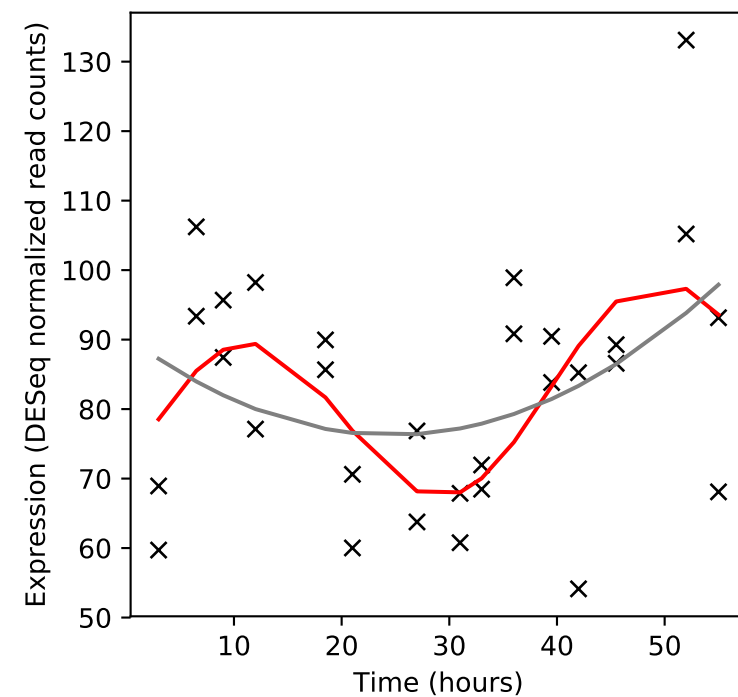
Rv1940/ribA1



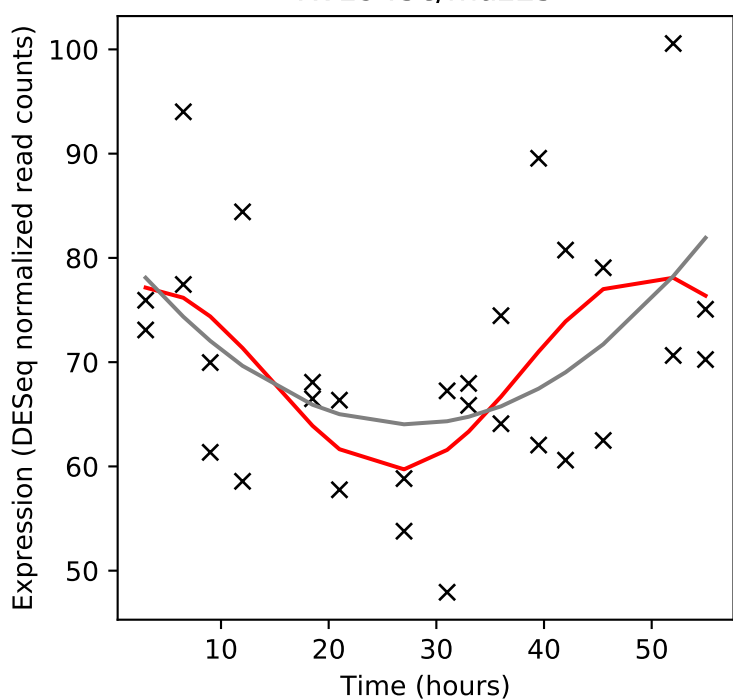
Rv1941/-



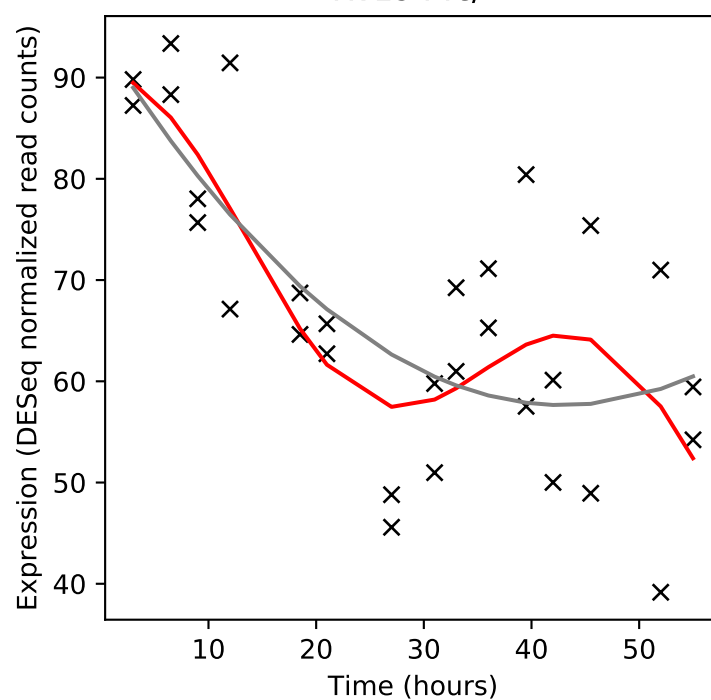
Rv1942c/mazF5



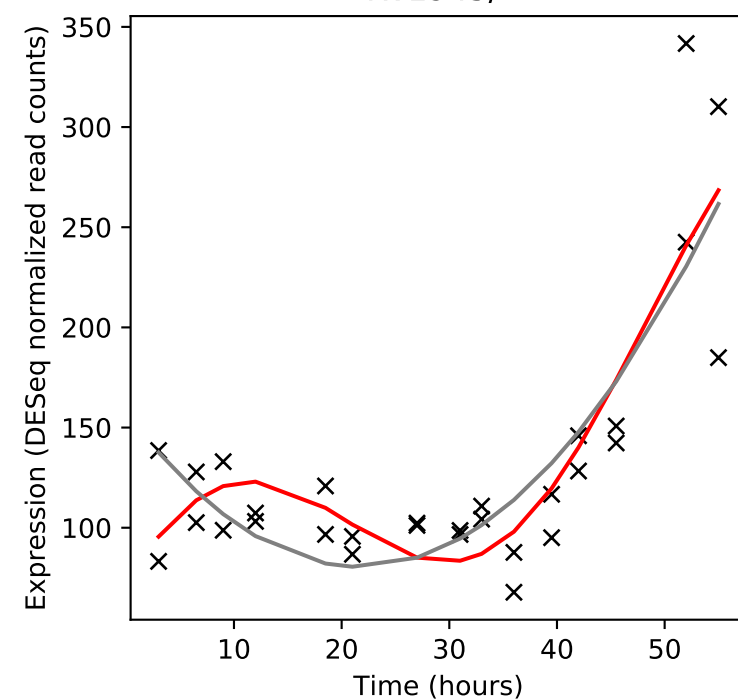
Rv1943c/mazE5



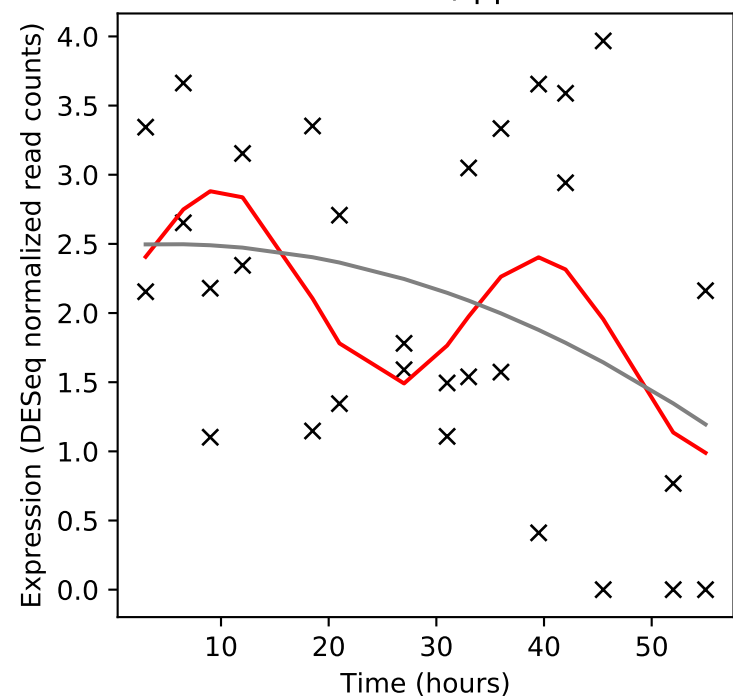
Rv1944c/-



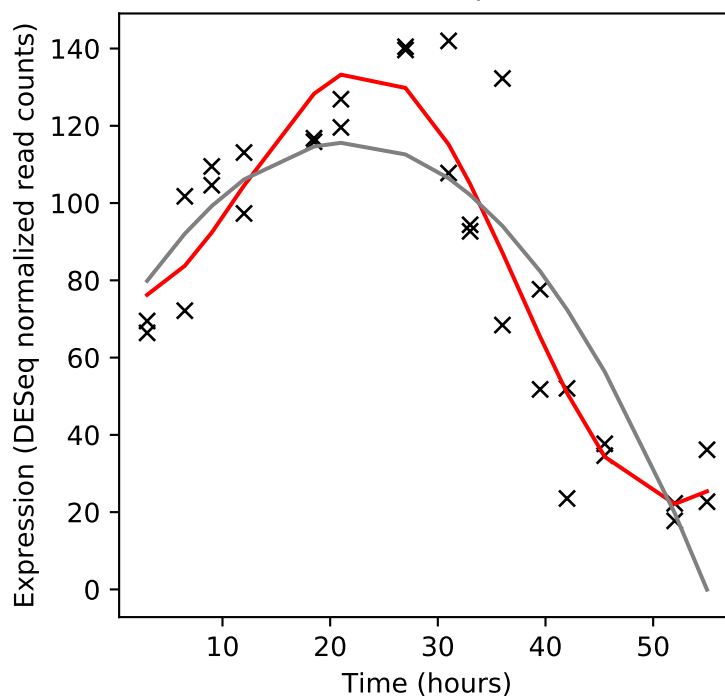
Rv1945/-



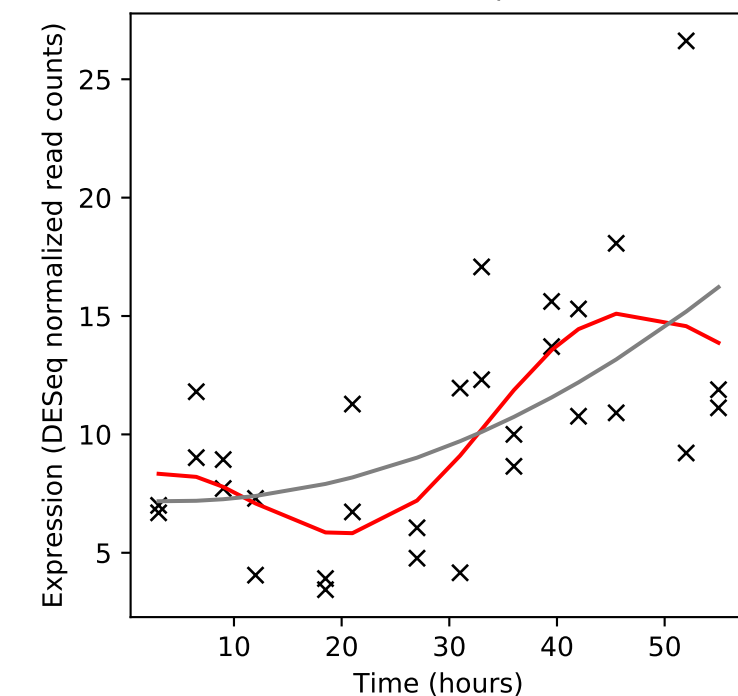
Rv1946c/lppG



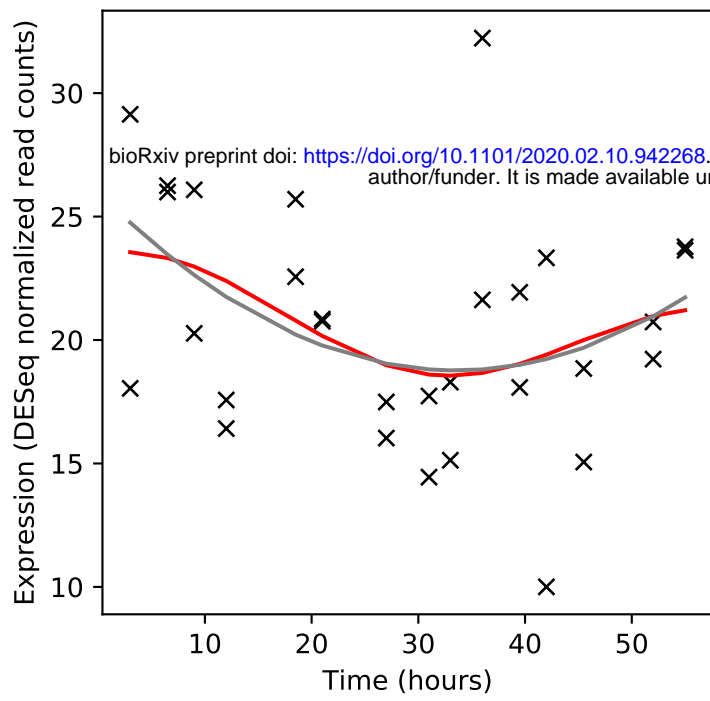
Rv1947/-



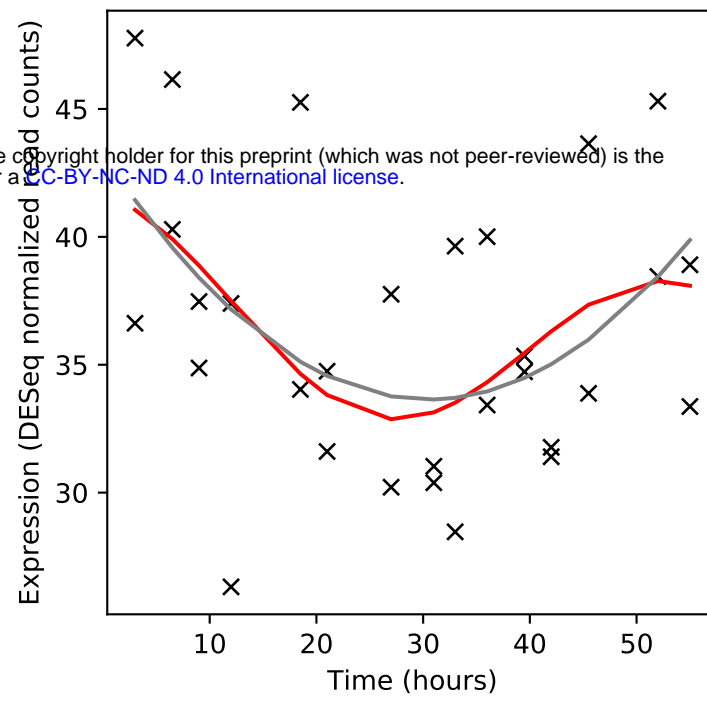
Rv1948c/-



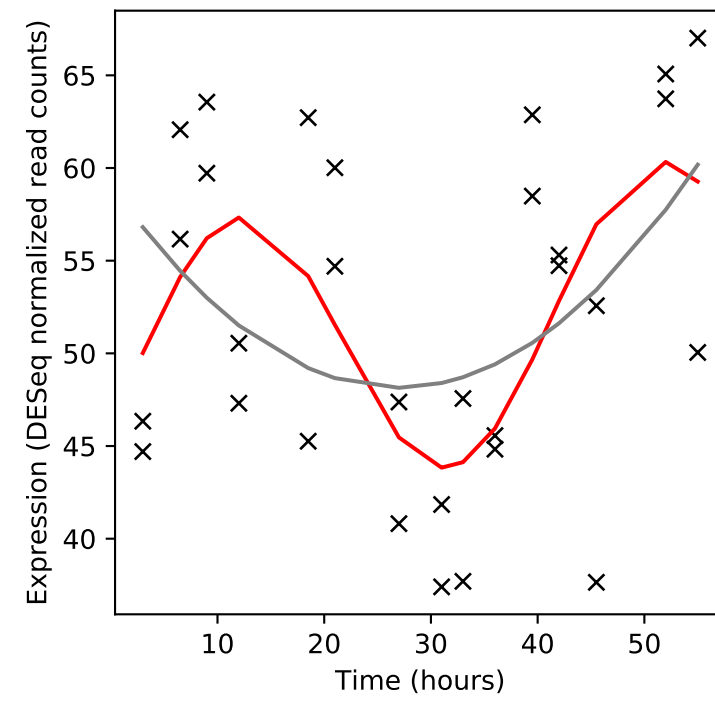
Rv1949c/-



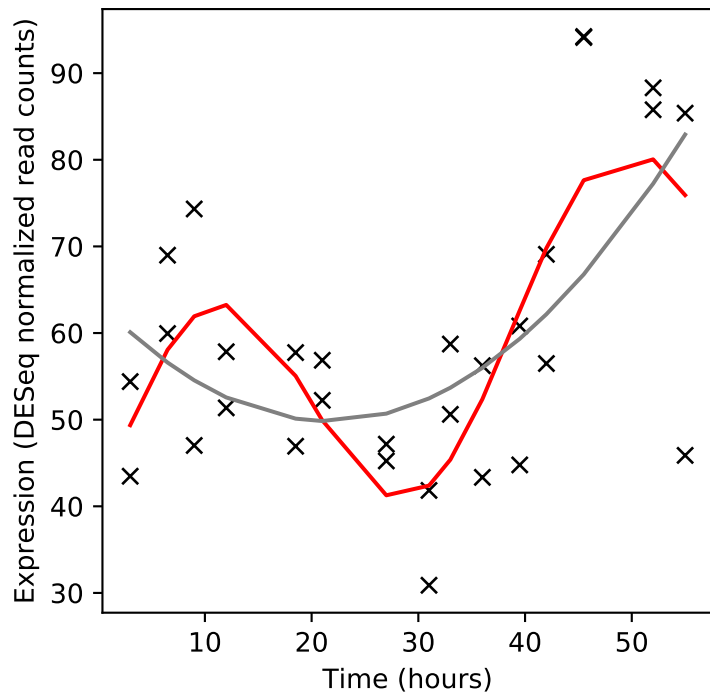
Rv1950c/-



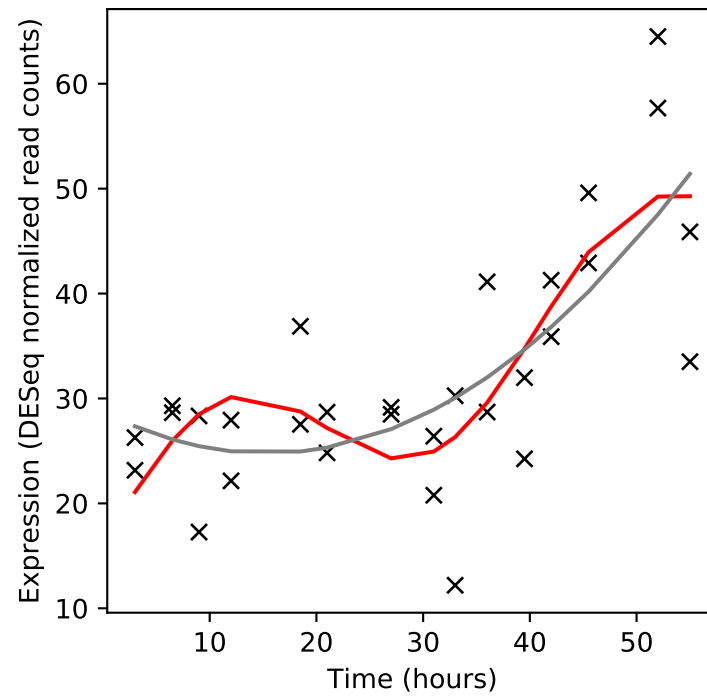
Rv1951c/-



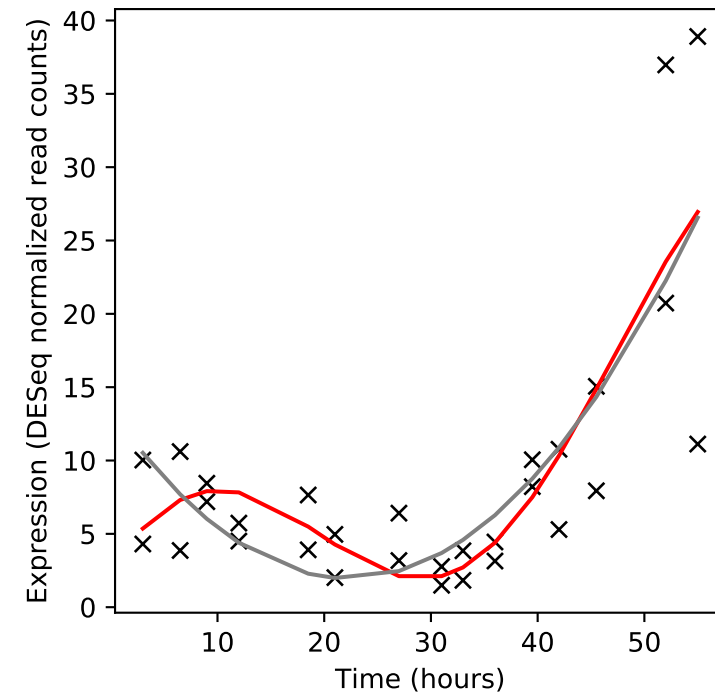
Rv1952/vapB14



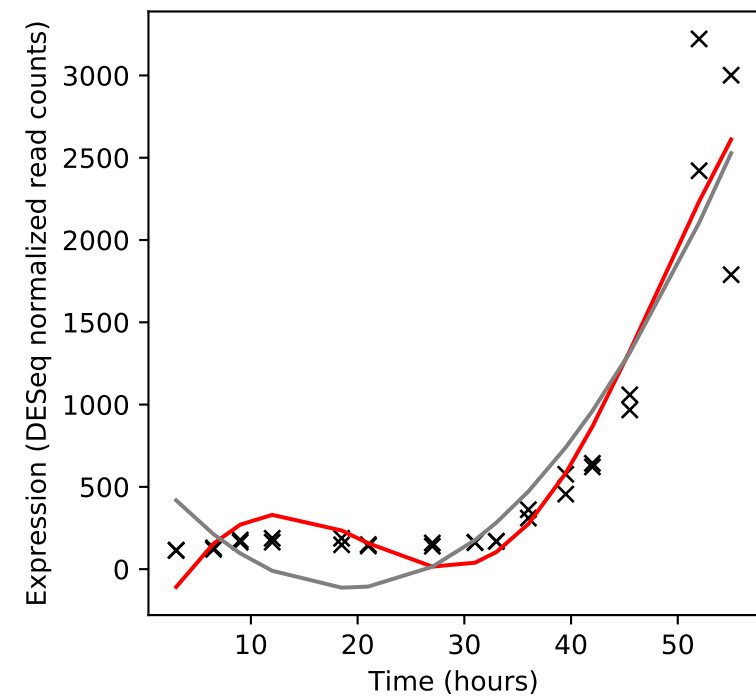
Rv1953/vapC14



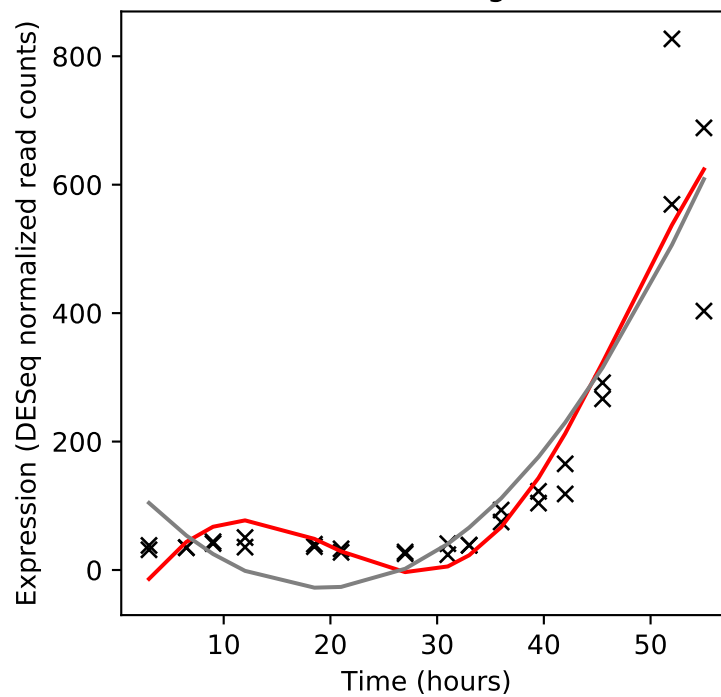
Rv1954c/-



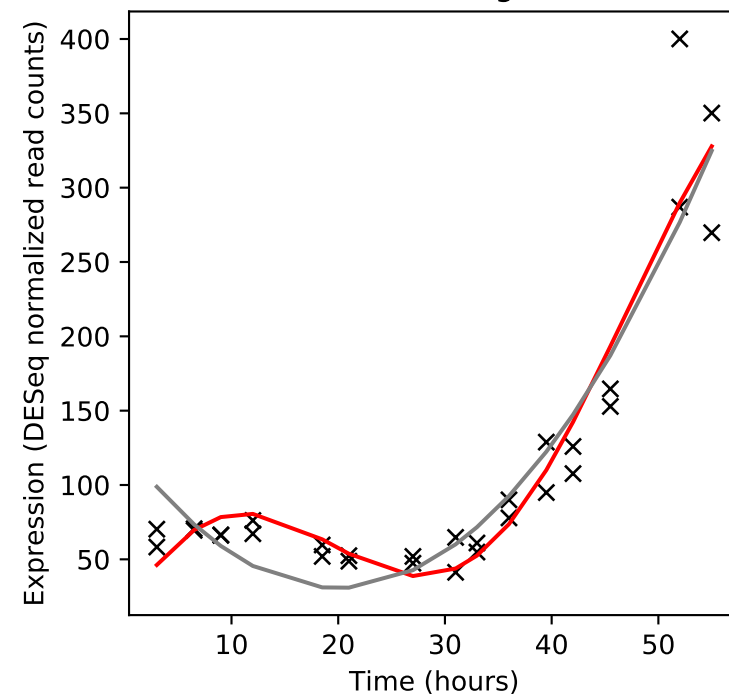
Rv1954A/-



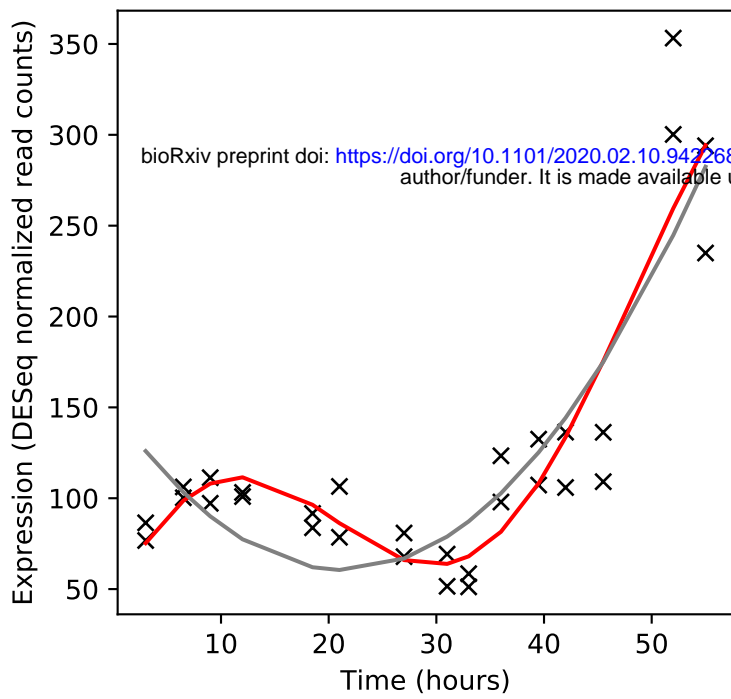
Rv1955/higB



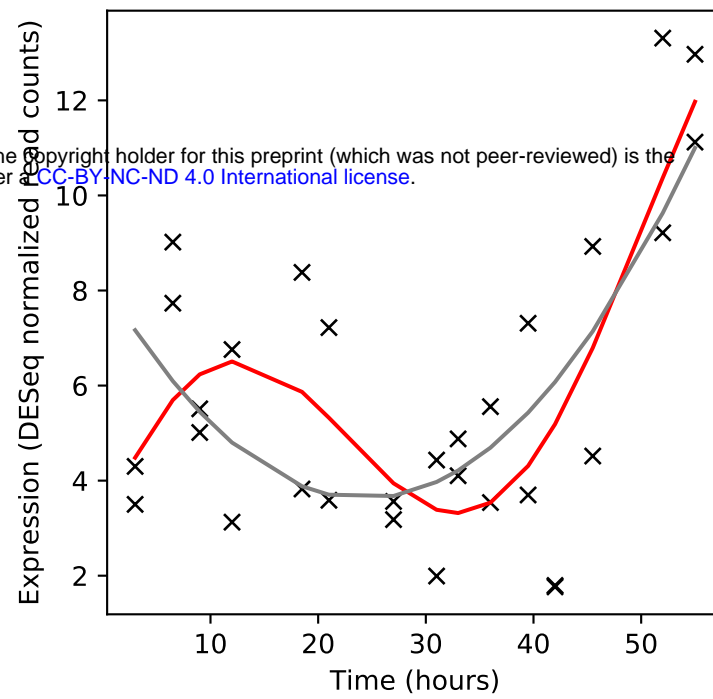
Rv1956/higA



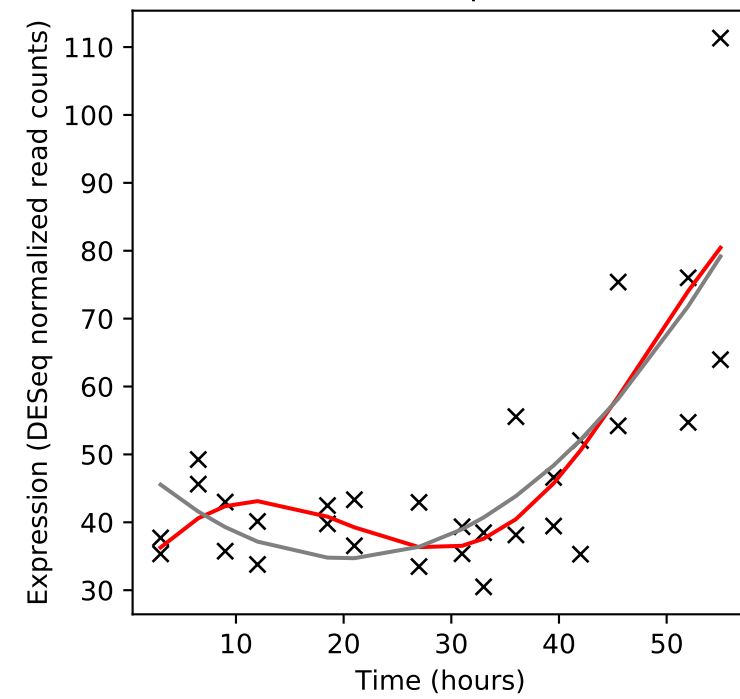
Rv1957/-



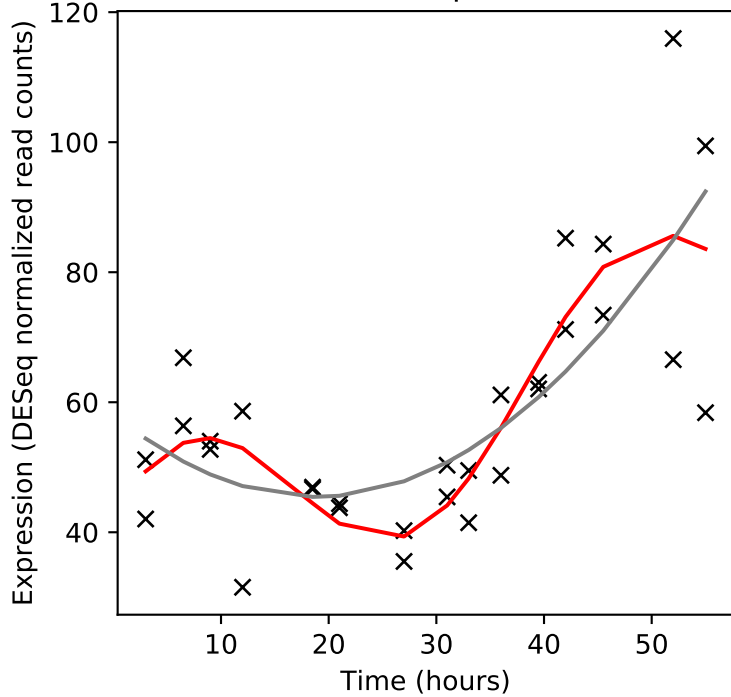
Rv1958c/-



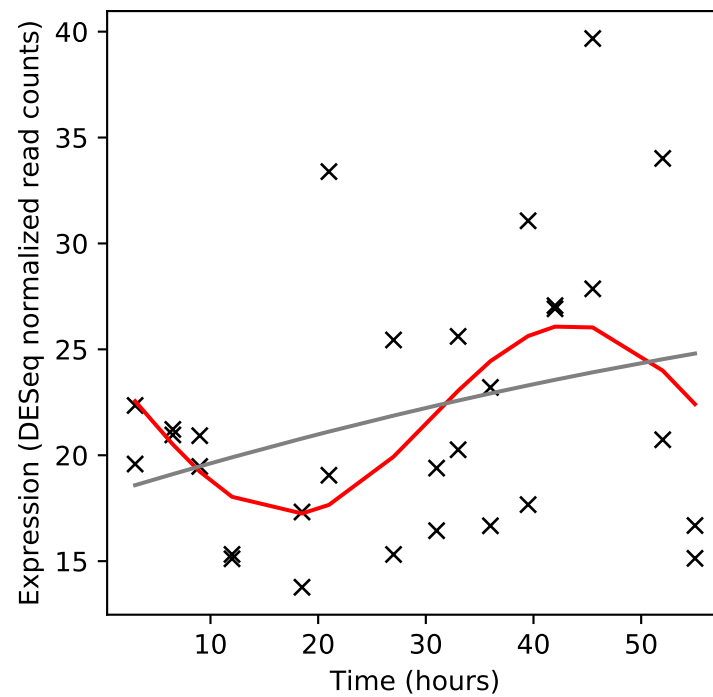
Rv1959c/parE1



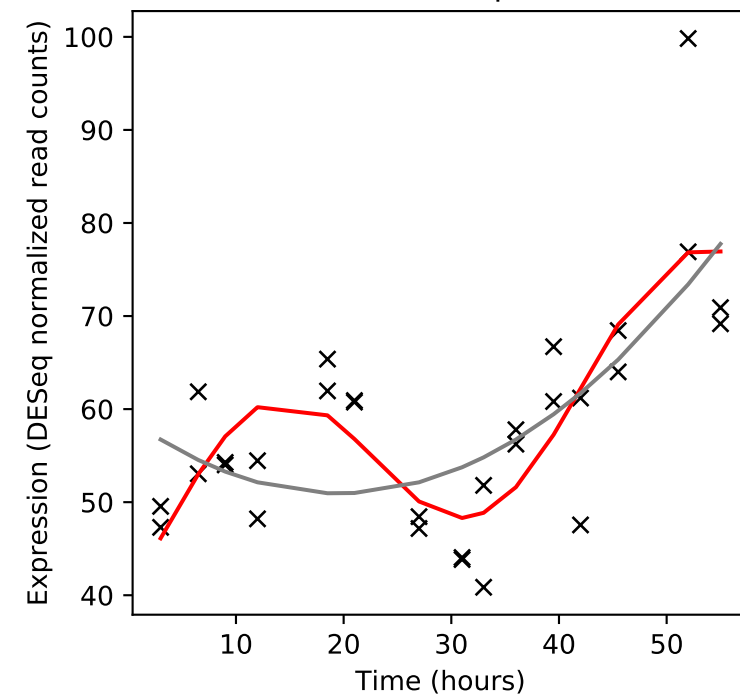
Rv1960c/parD1



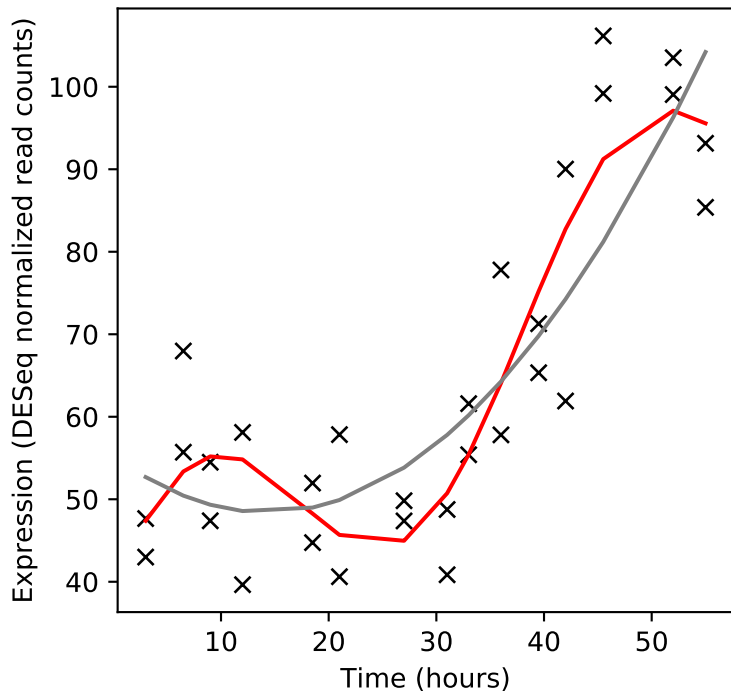
Rv1961/-



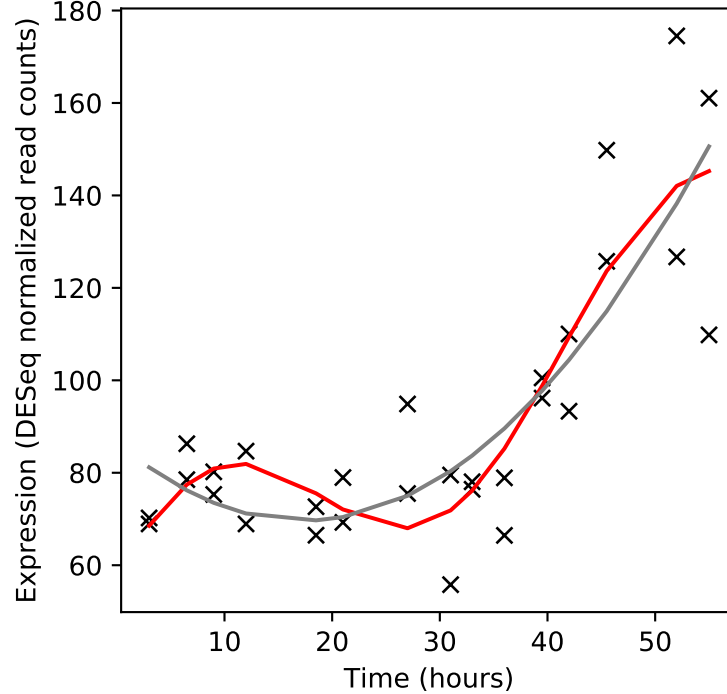
Rv1962c/vapC35



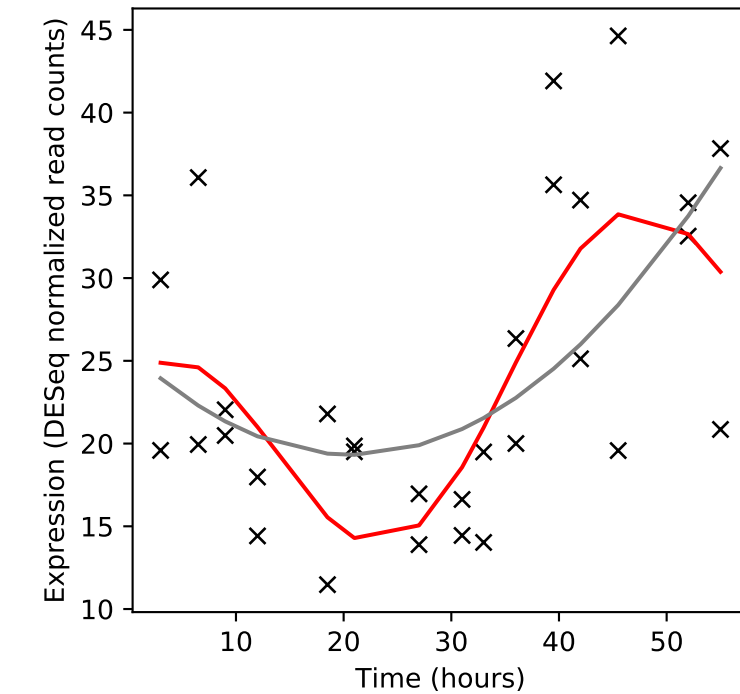
Rv1962A/vapB35



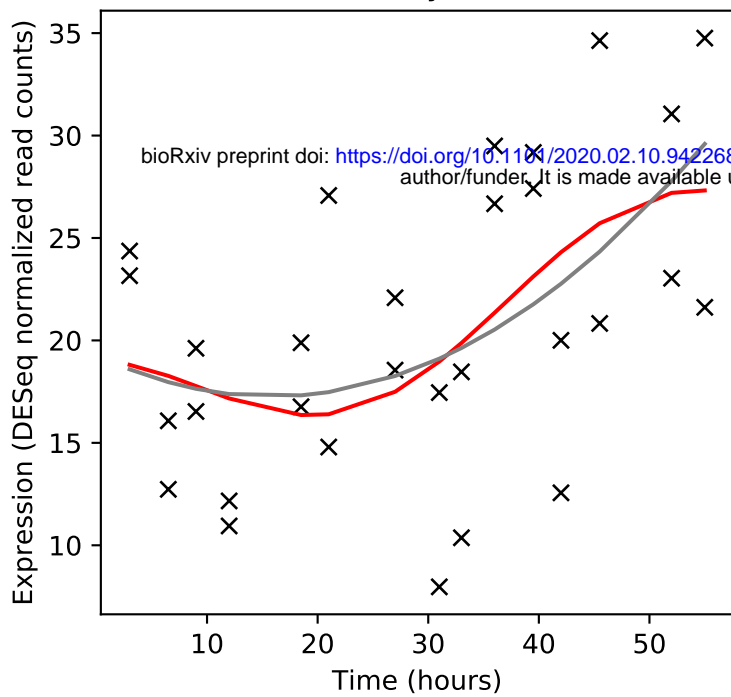
Rv1963c/mce3R



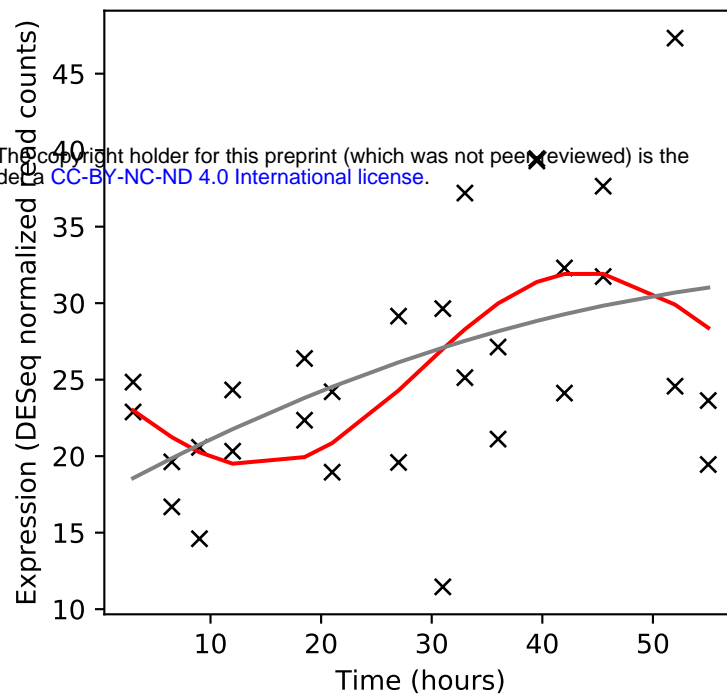
Rv1964/yrbE3A



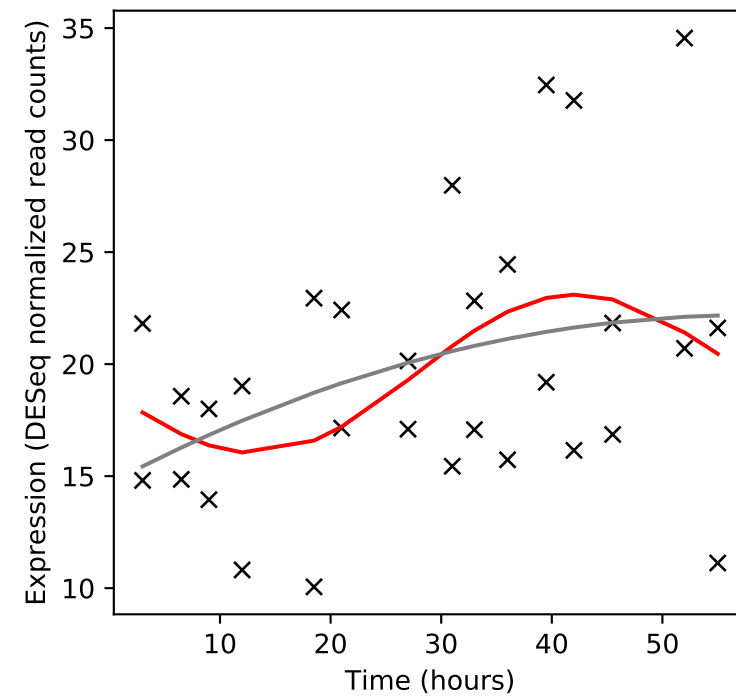
Rv1965/yrbE3B



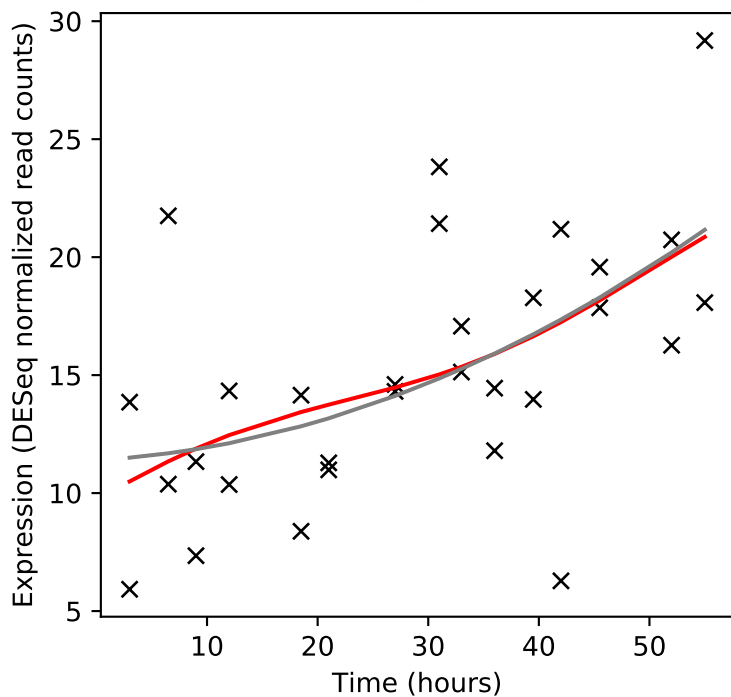
Rv1966/mce3A



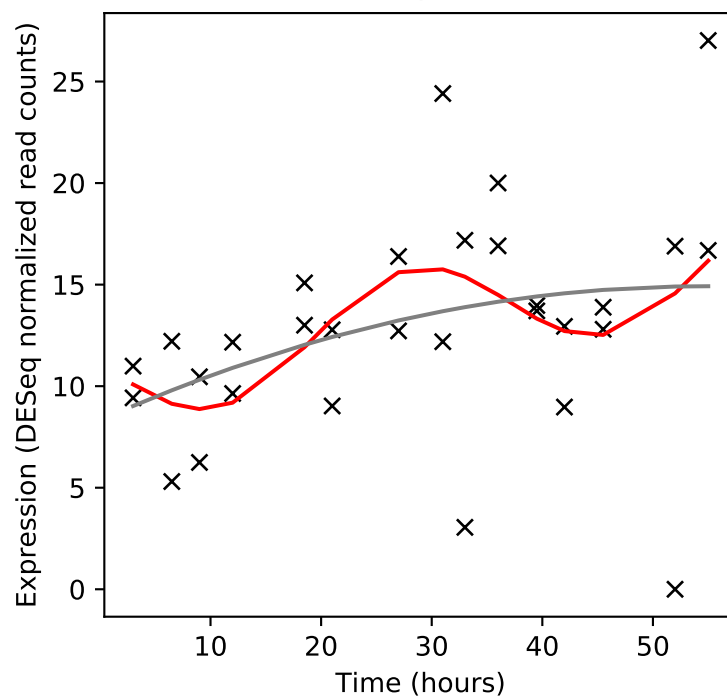
Rv1967/mce3B



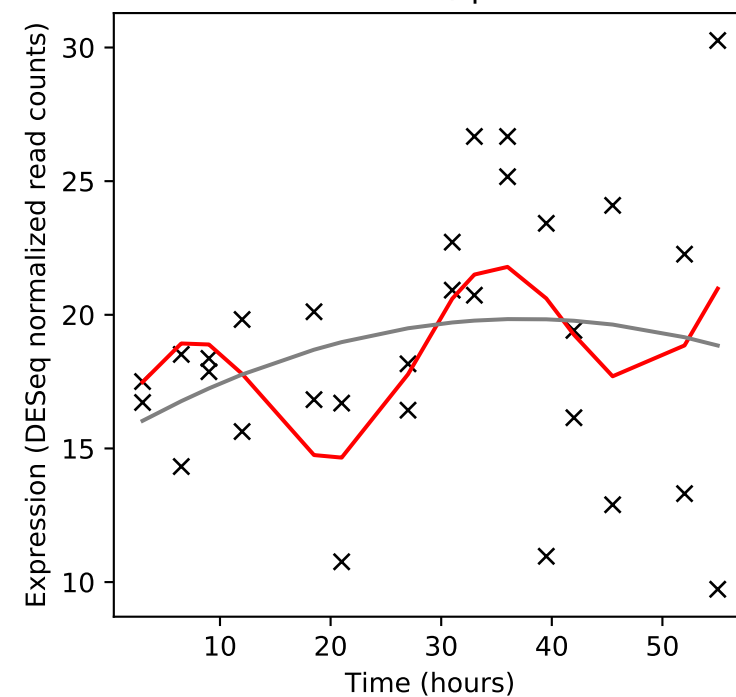
Rv1968/mce3C



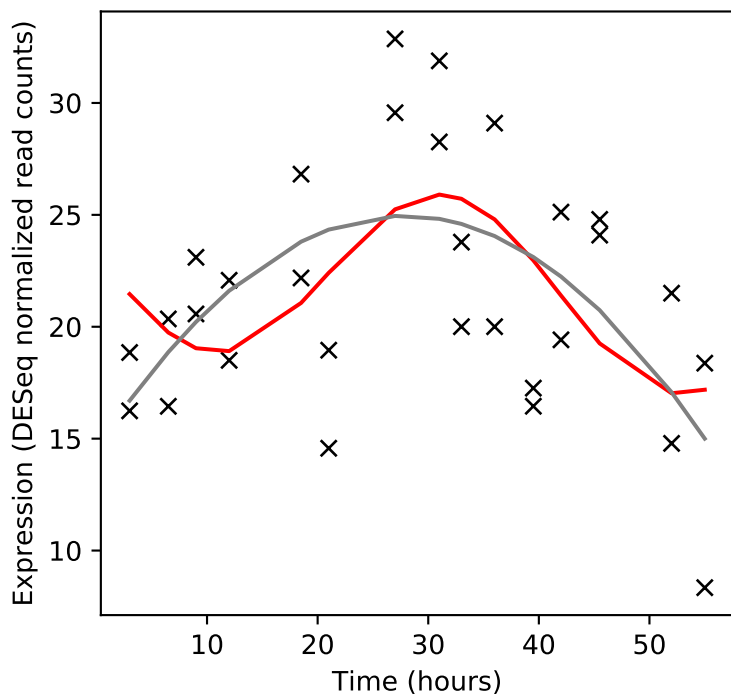
Rv1969/mce3D



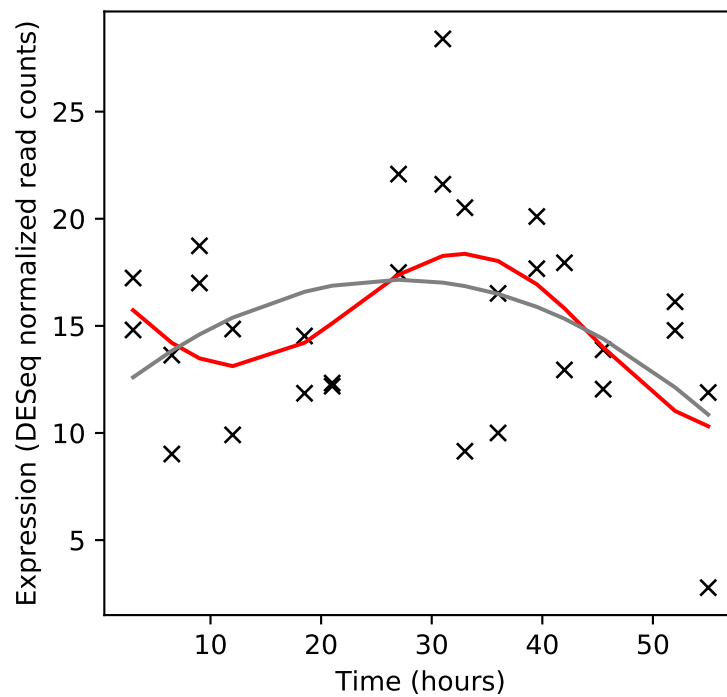
Rv1970/lprM



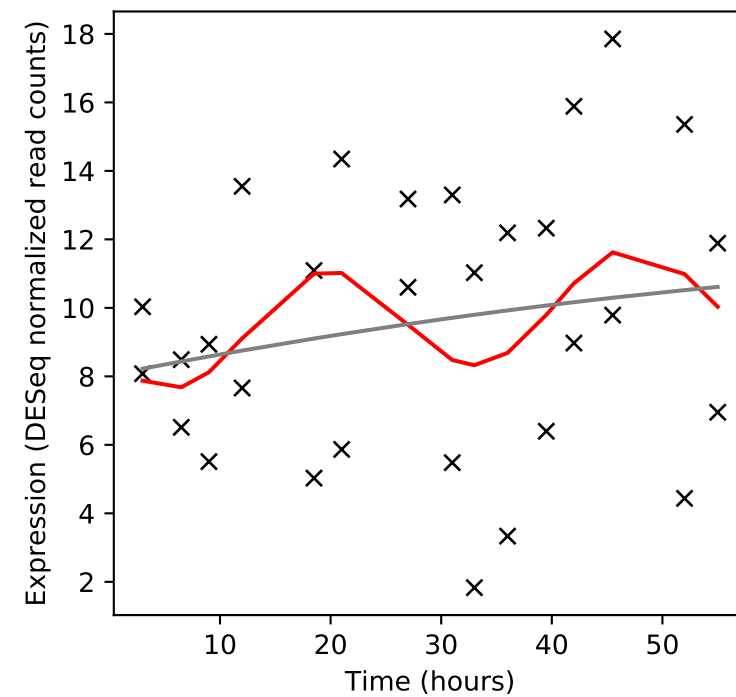
Rv1971/mce3F



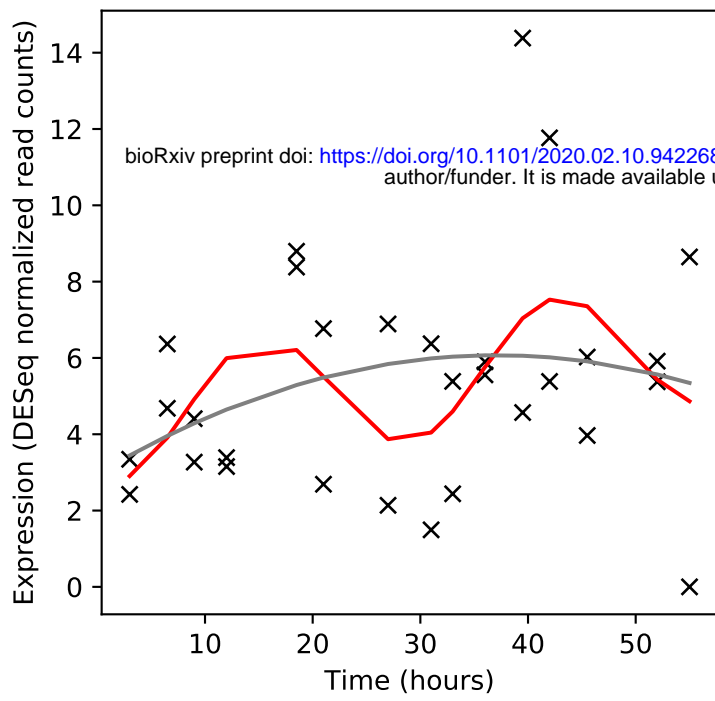
Rv1972/-



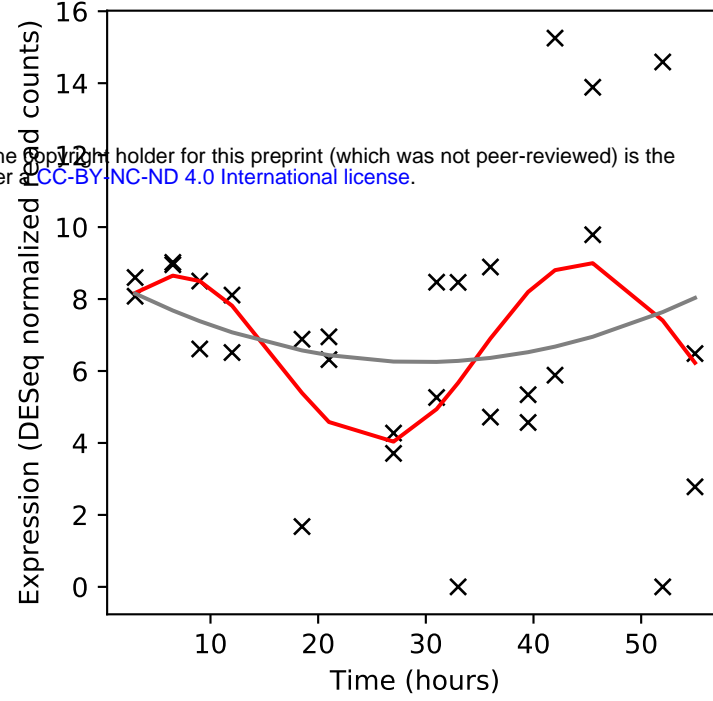
Rv1973/-



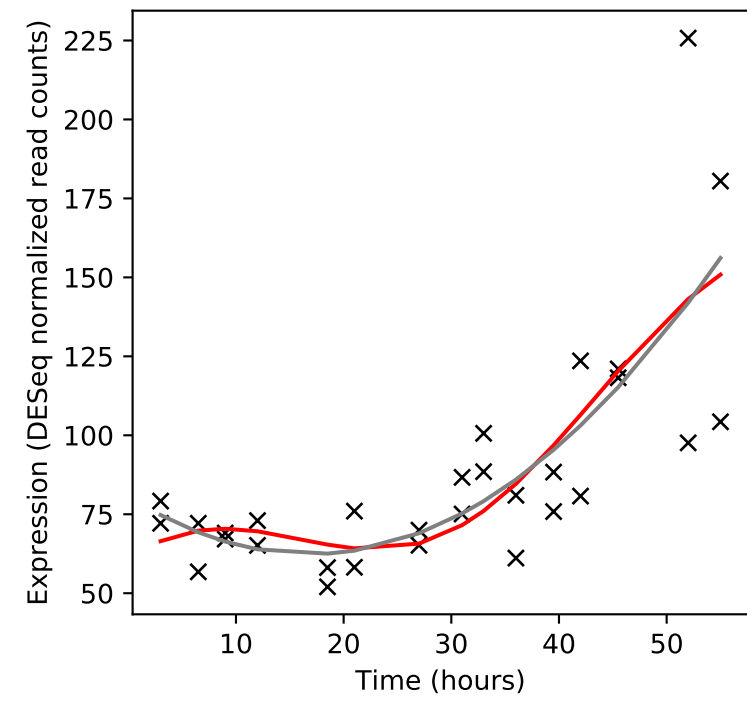
Rv1974/-



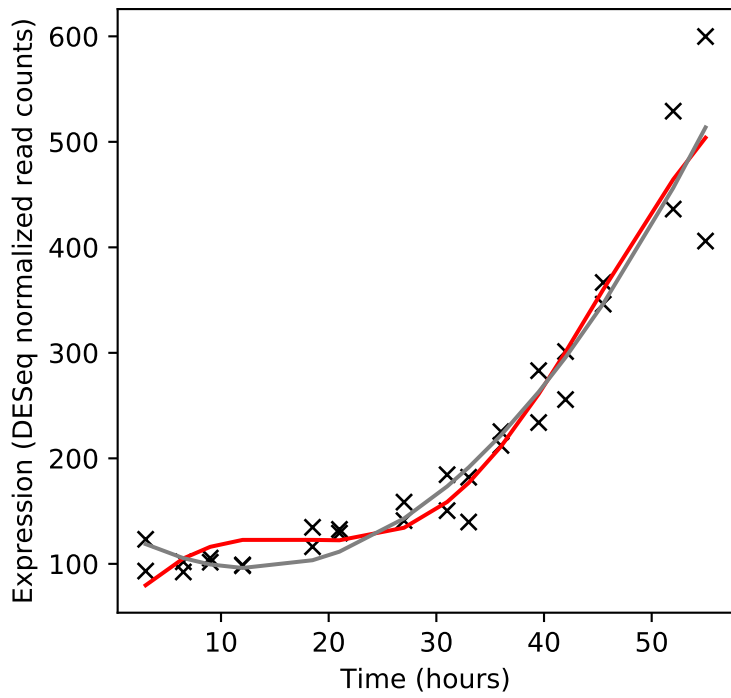
Rv1975/-



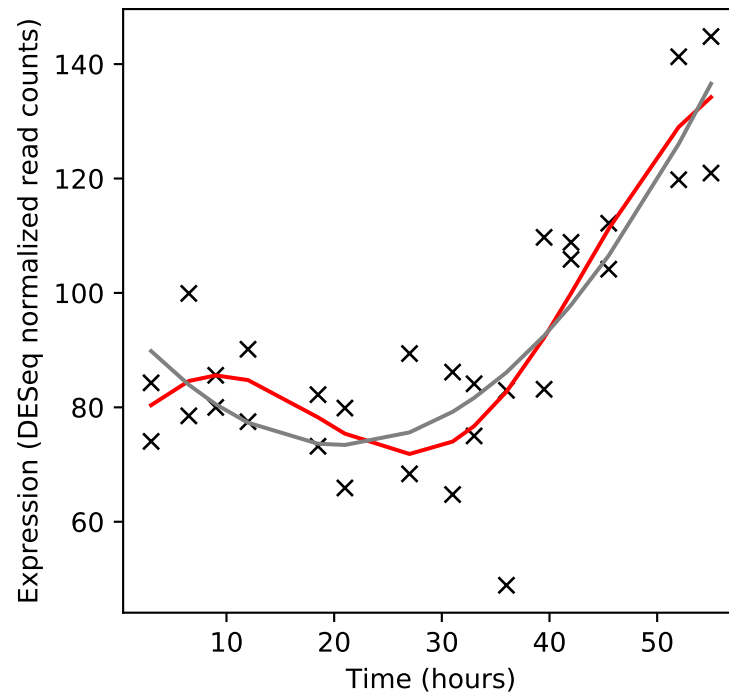
Rv1976c/-



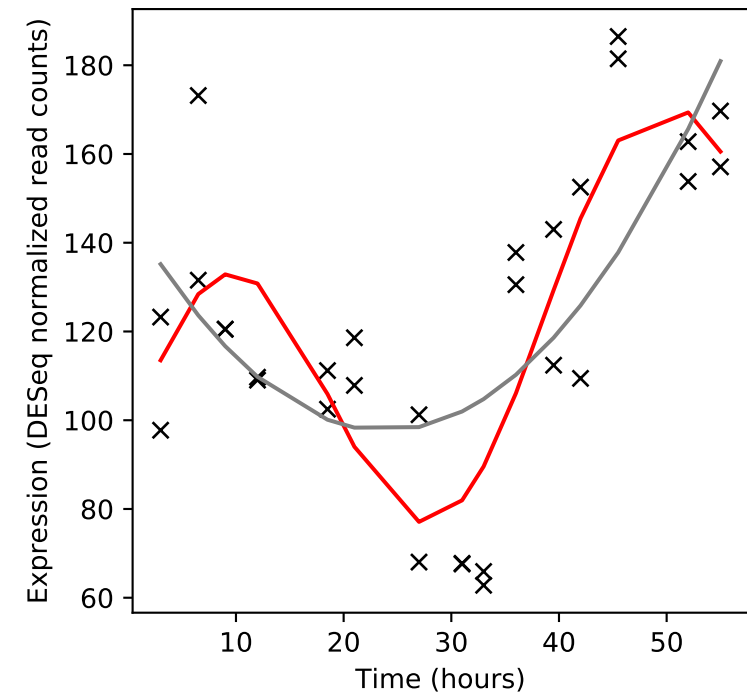
Rv1977/-



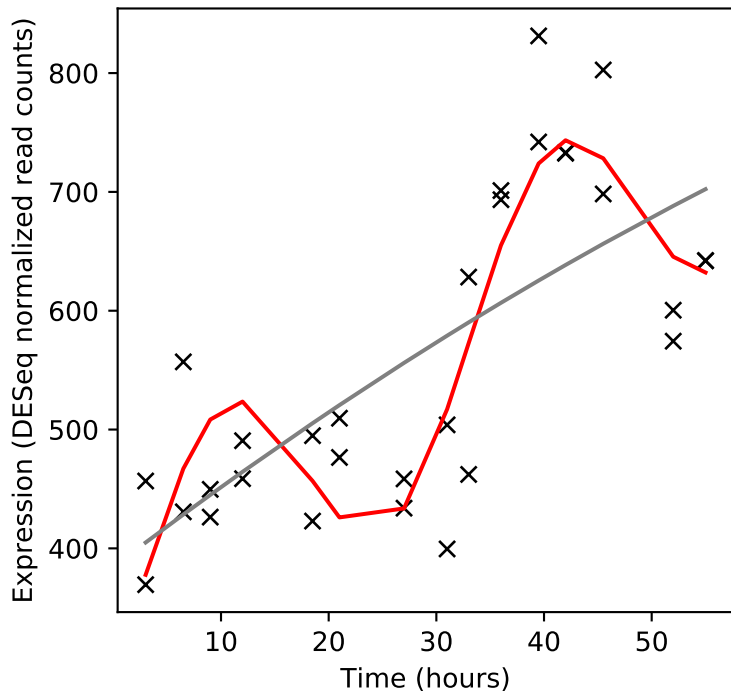
Rv1978/-



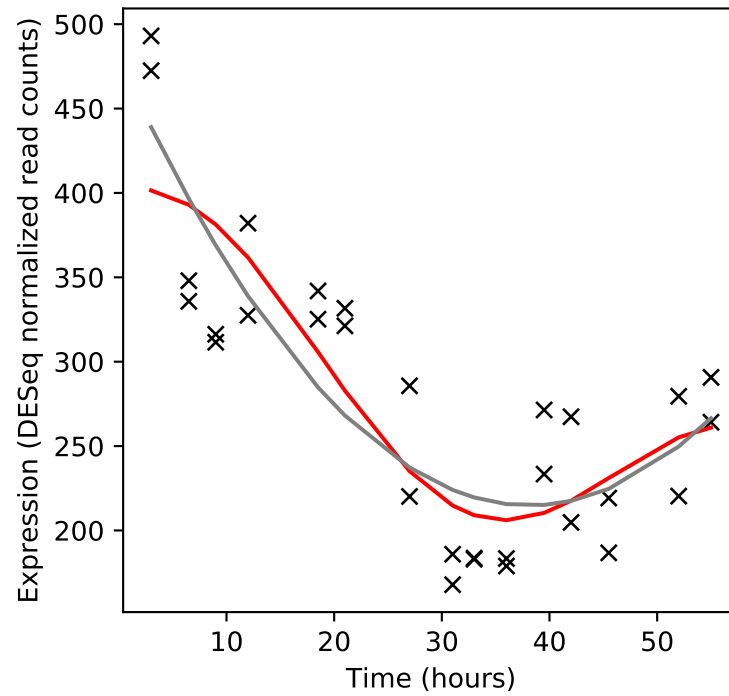
Rv1979c/-



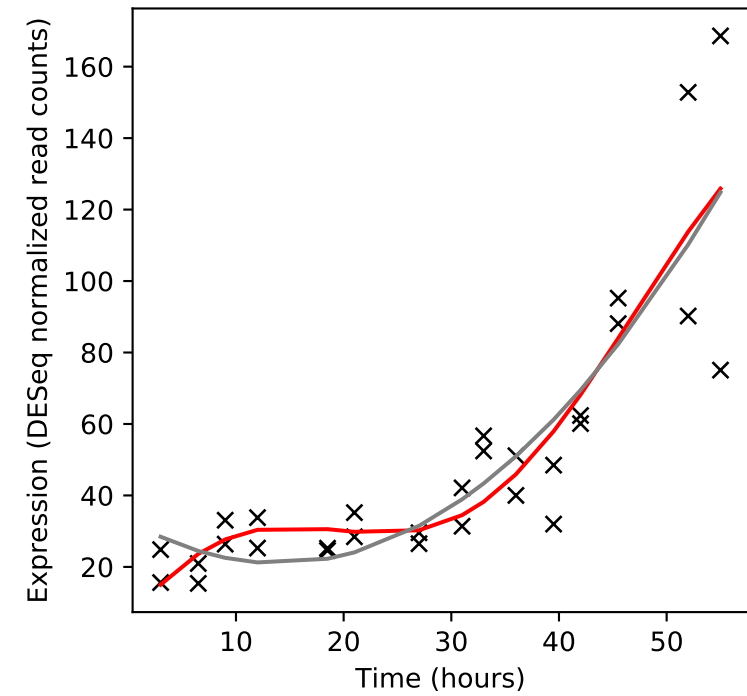
Rv1980c/mpt64



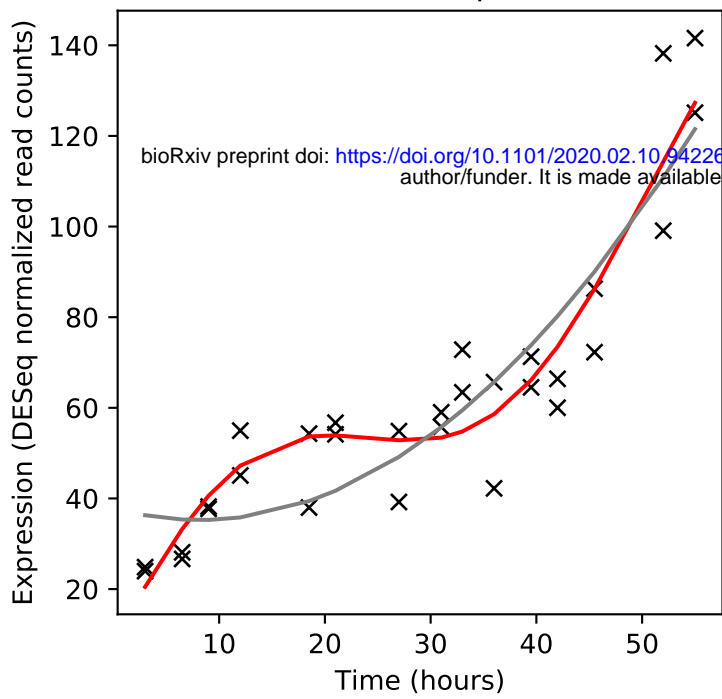
Rv1981c/nrdF1



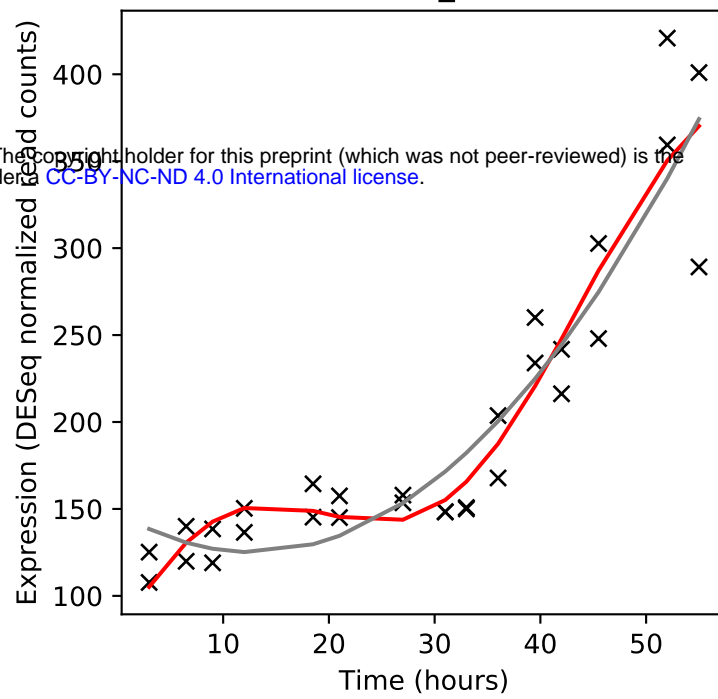
Rv1982c/vapC36



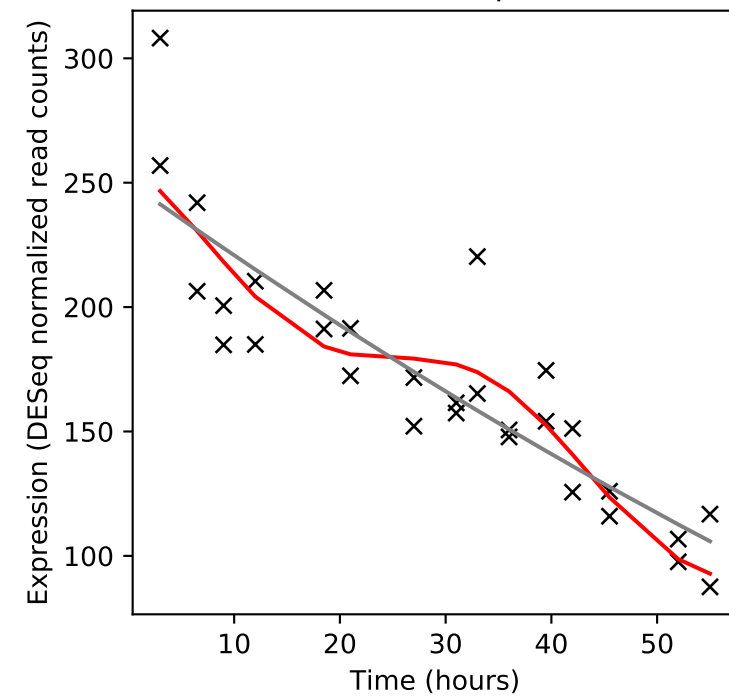
Rv1982A/vapB36



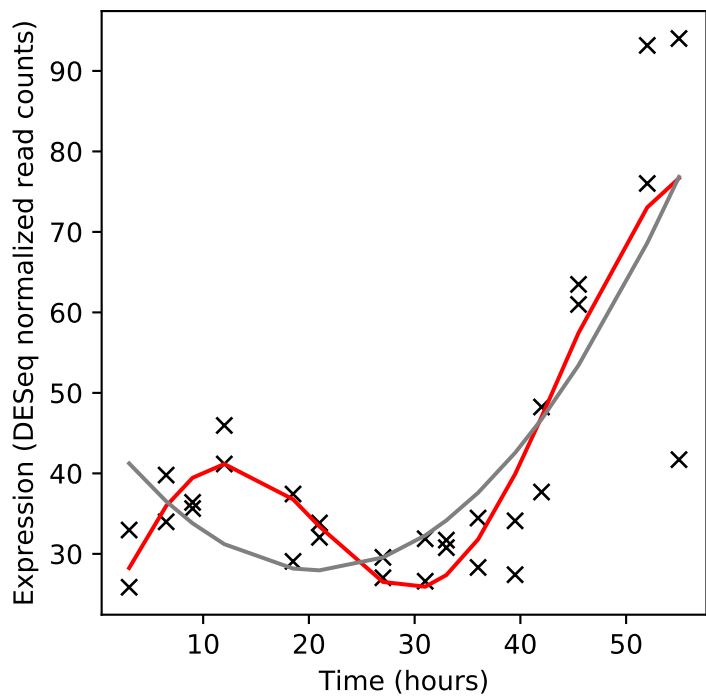
Rv1983/PE_PGRS35



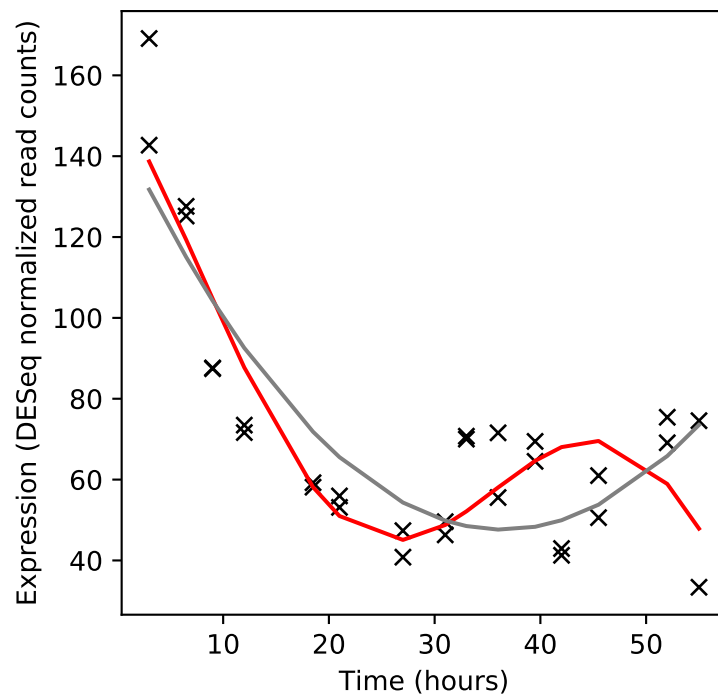
Rv1984c/cfp21



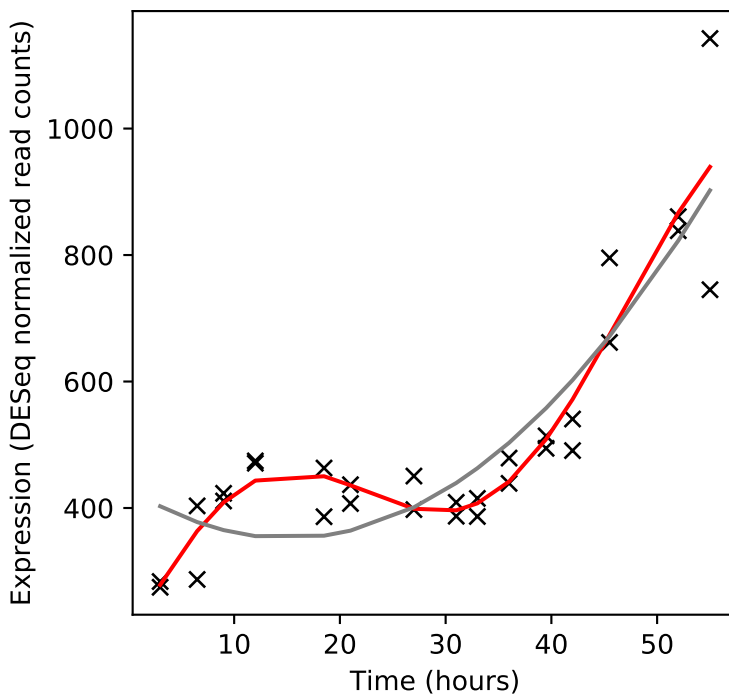
Rv1985c/-



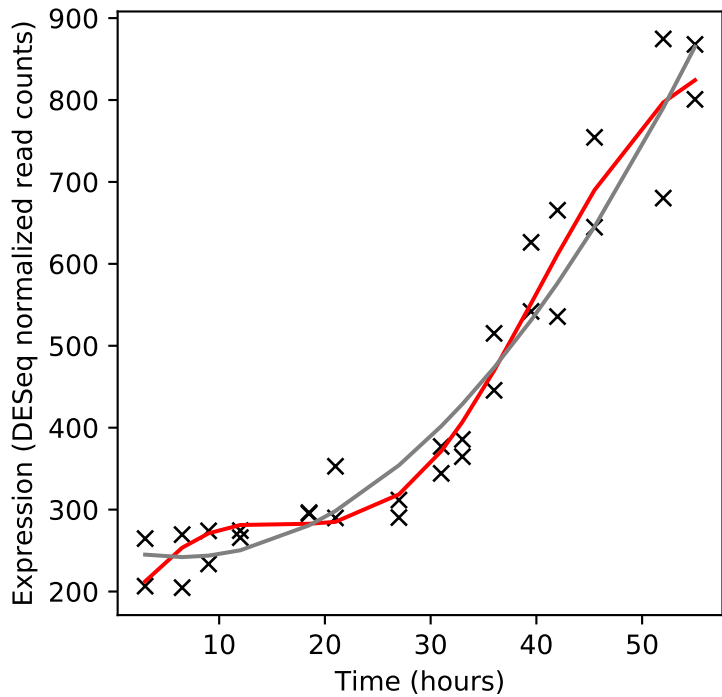
Rv1986/-



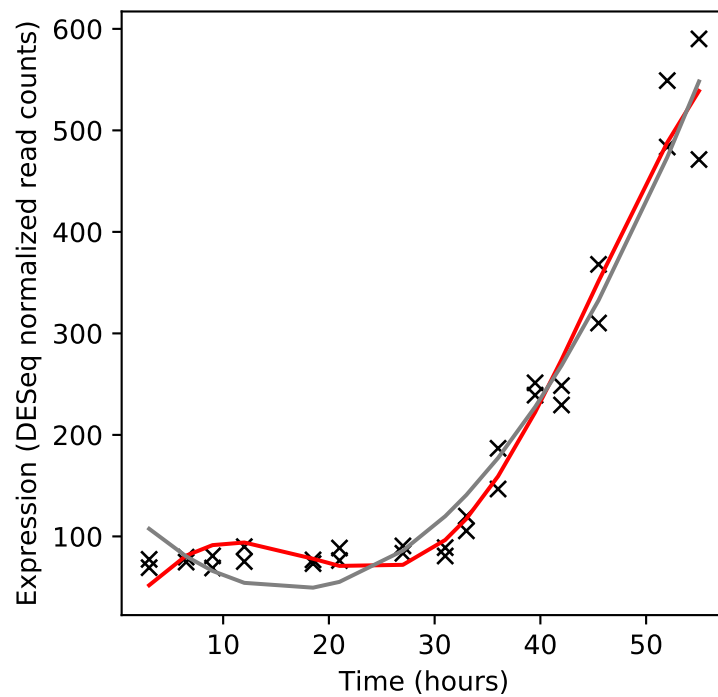
Rv1987/-



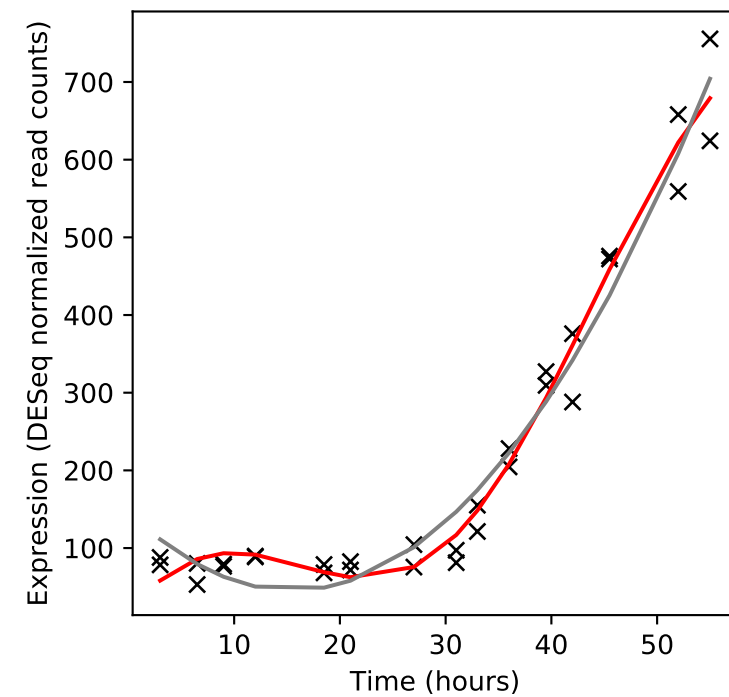
Rv1988/erm(37)



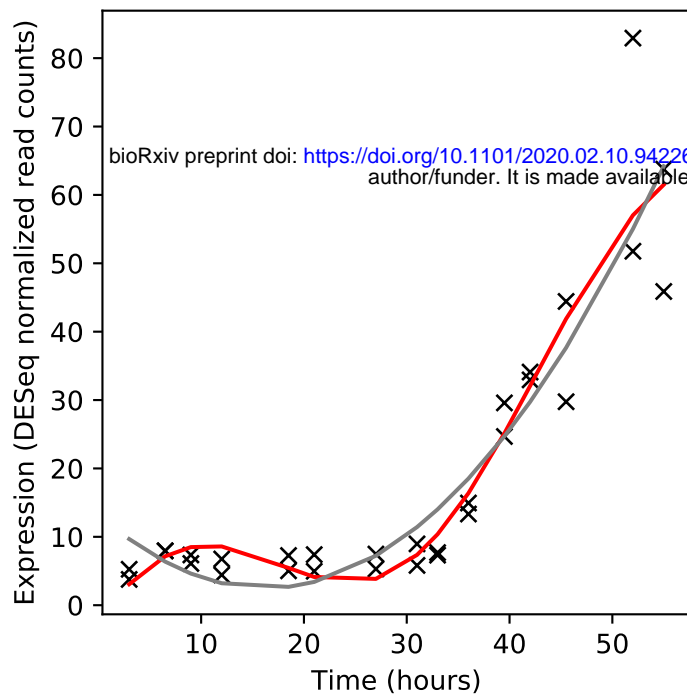
Rv1989c/-



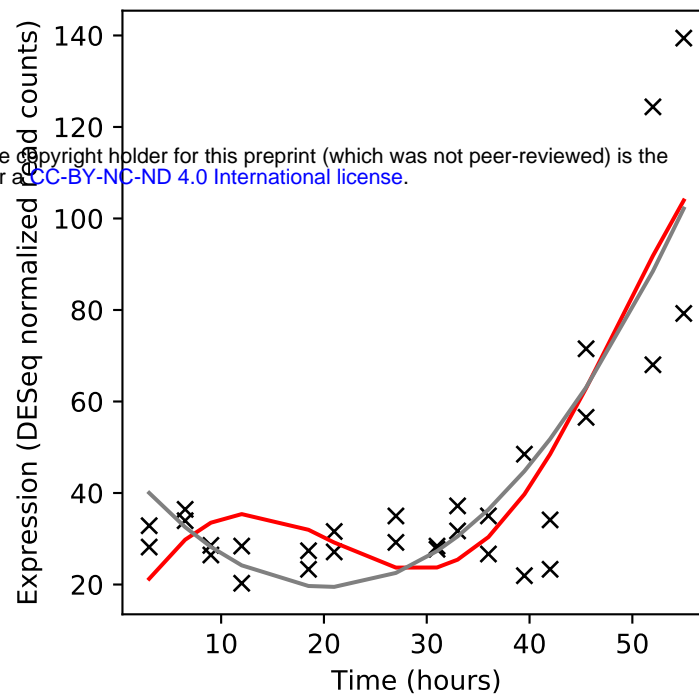
Rv1990c/-



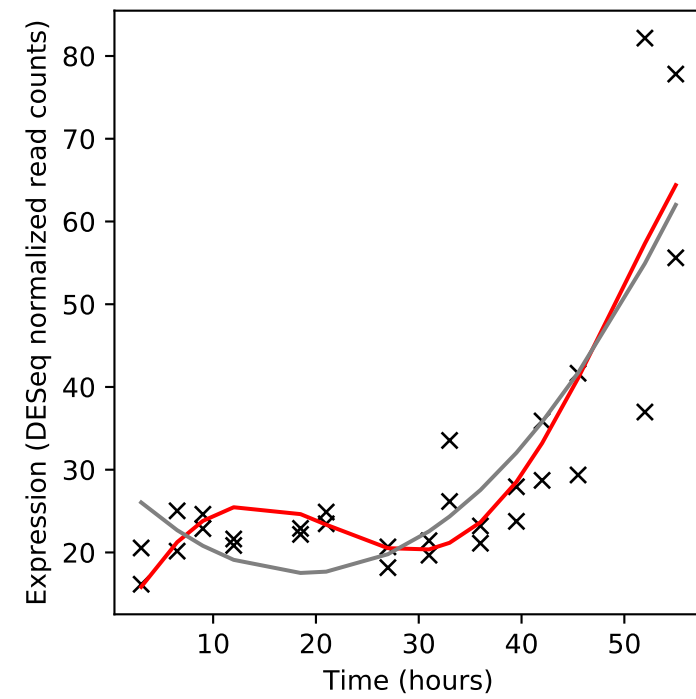
Rv1990A/-



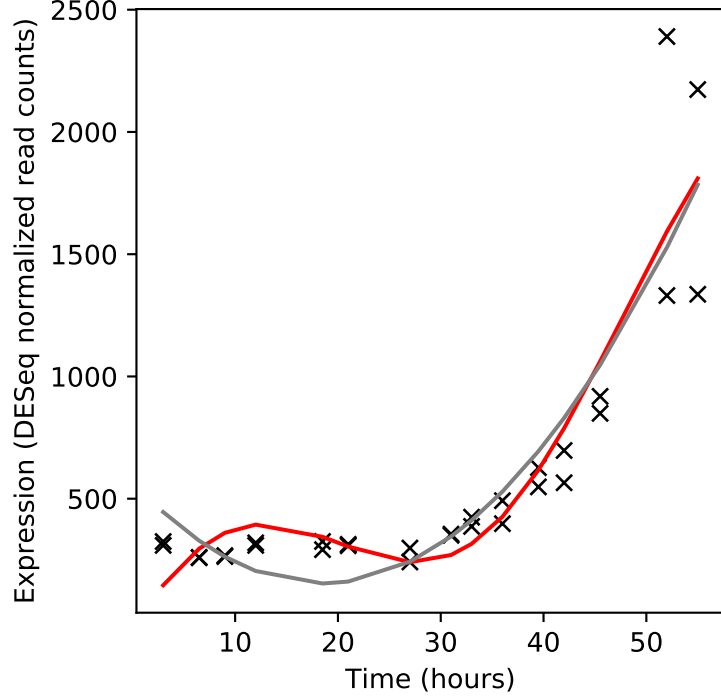
Rv1991c/mazF6



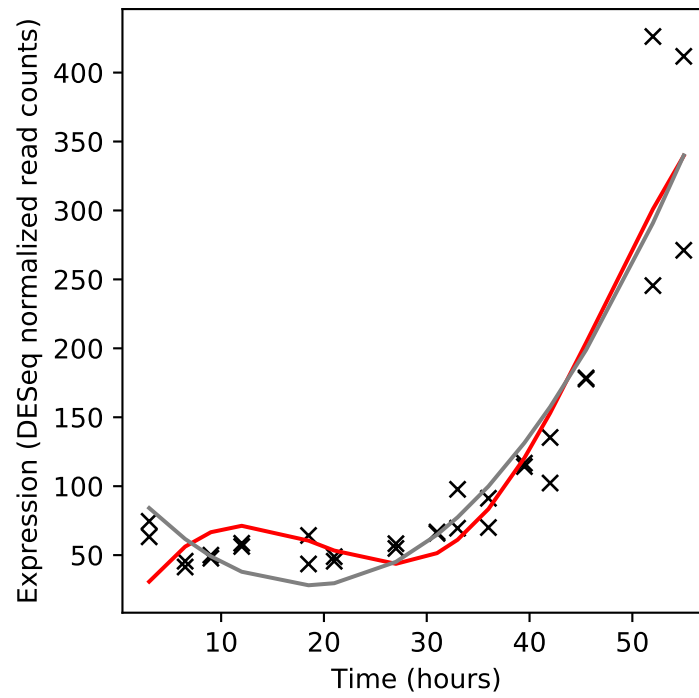
Rv1991A/mazE6



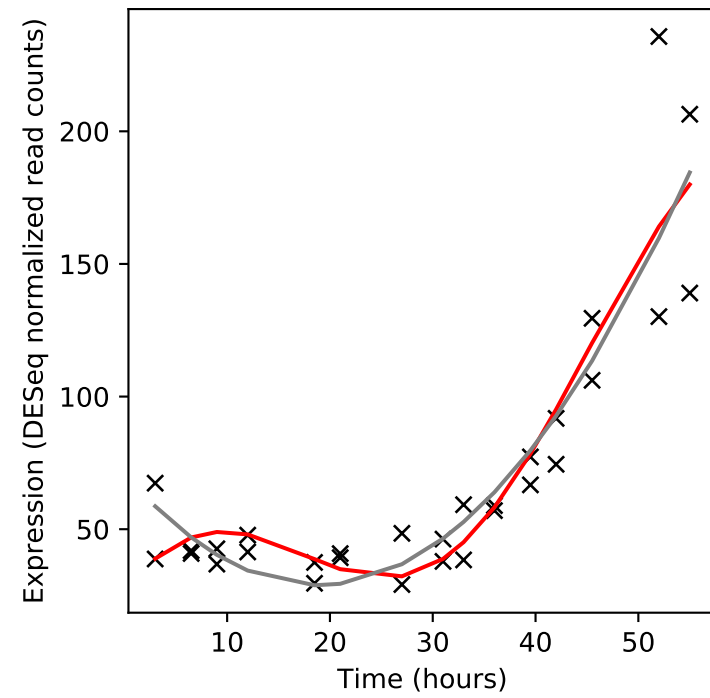
Rv1992c/ctpG



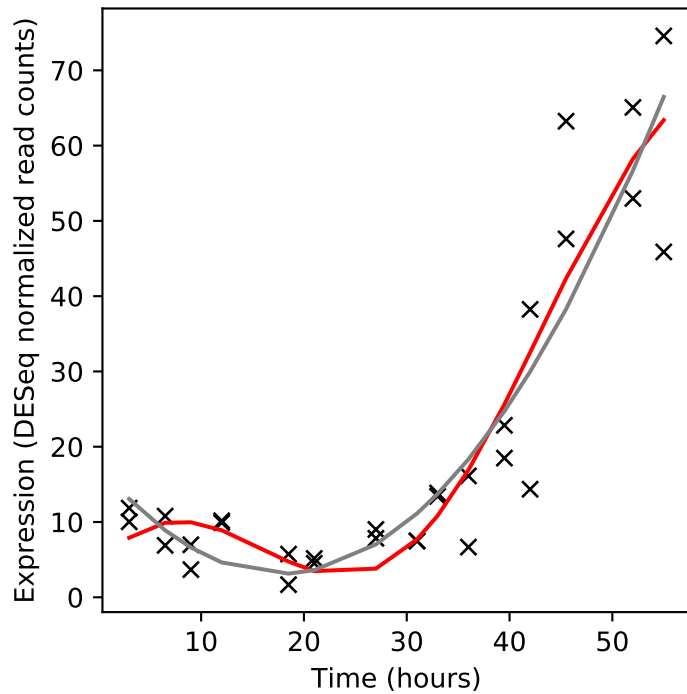
Rv1993c/-



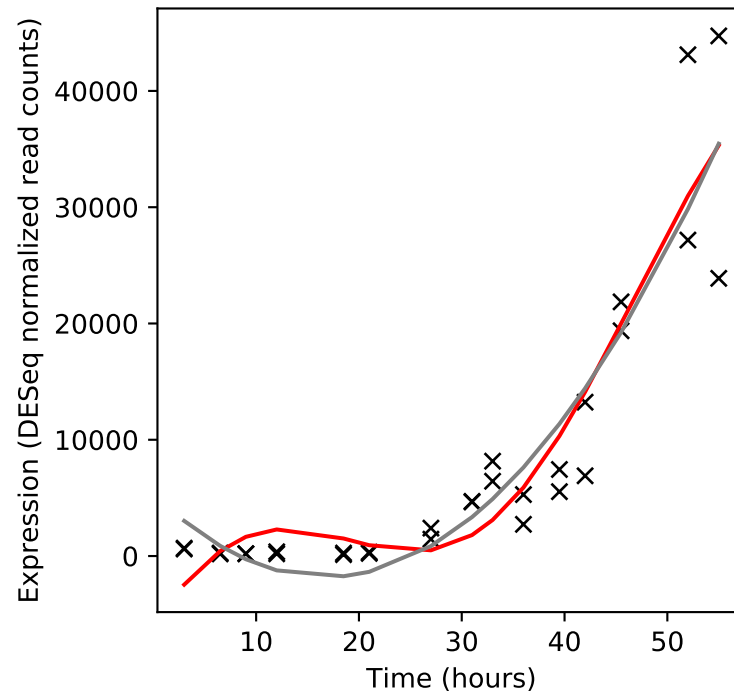
Rv1994c/cmtR



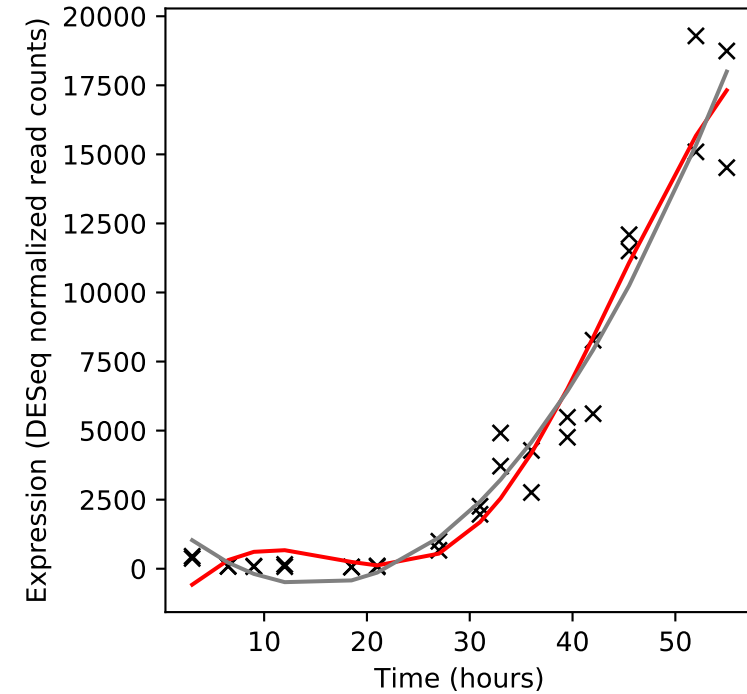
Rv1995/-



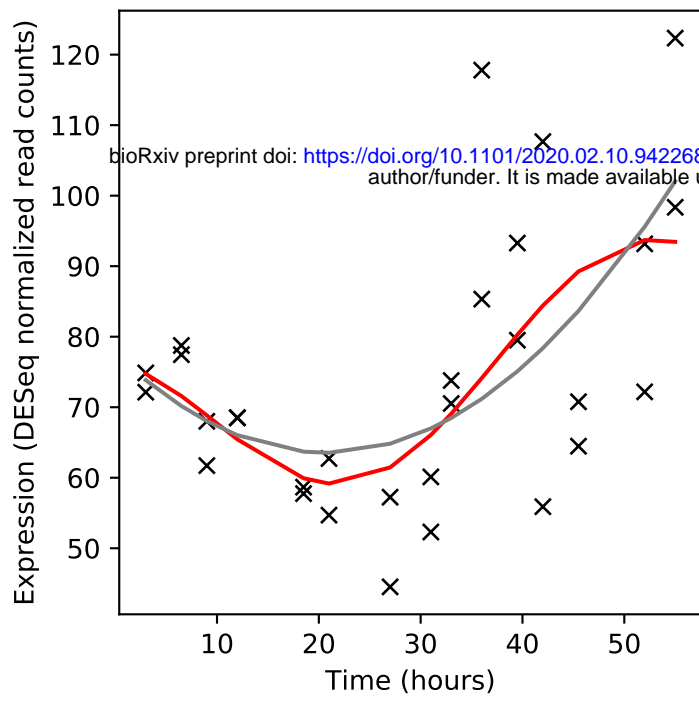
Rv1996/-



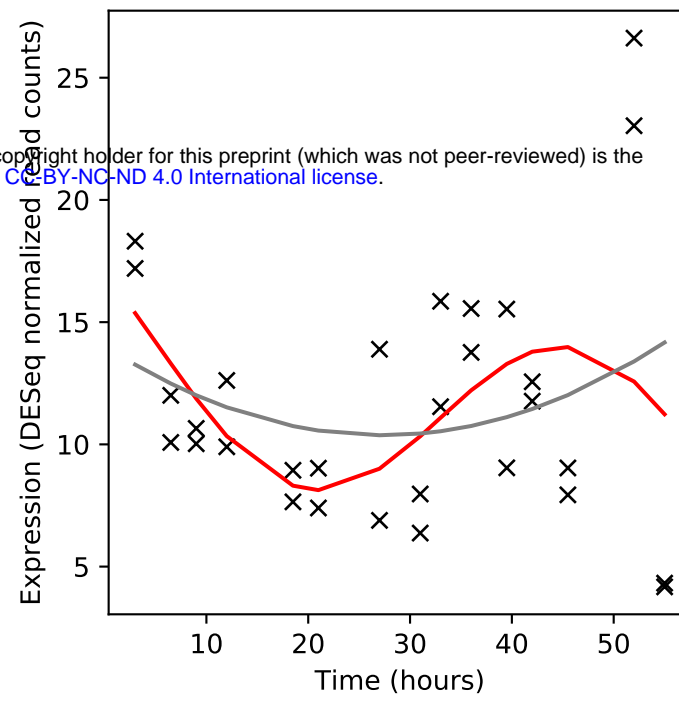
Rv1997/ctpF



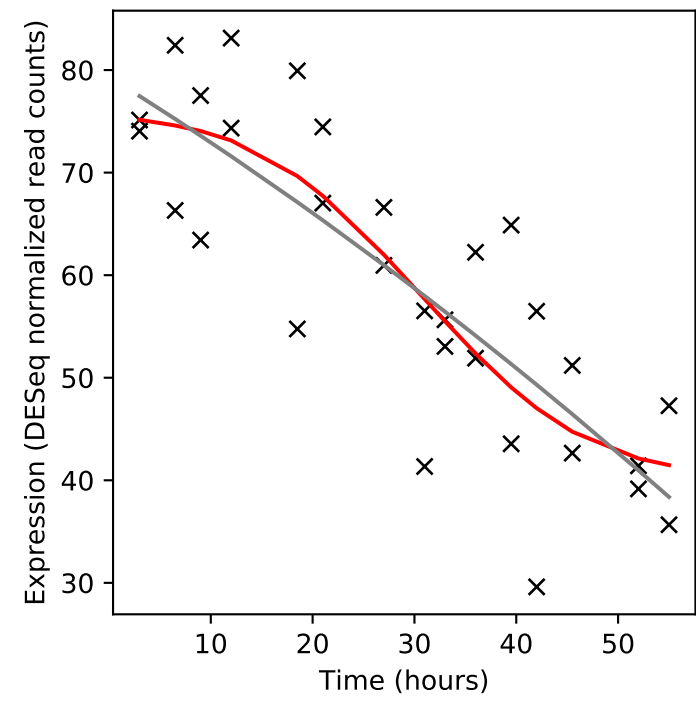
Rv1998c/-



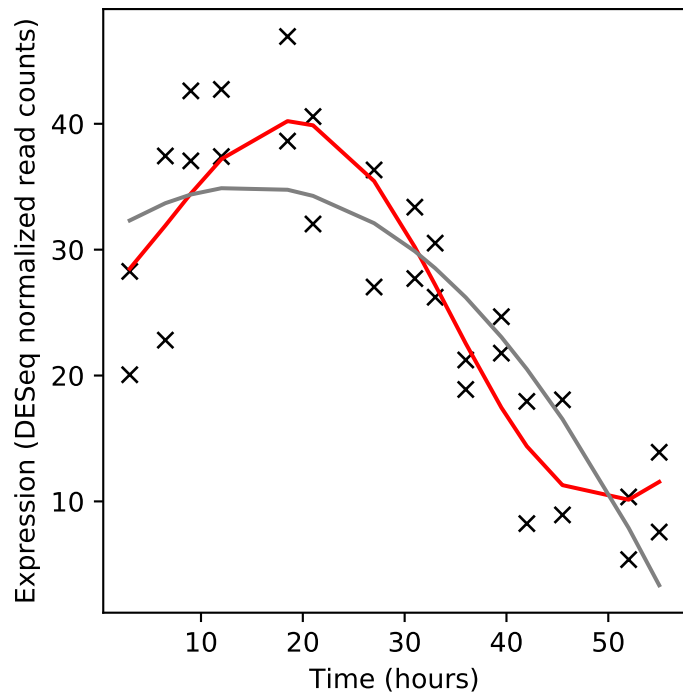
Rv1999c/-



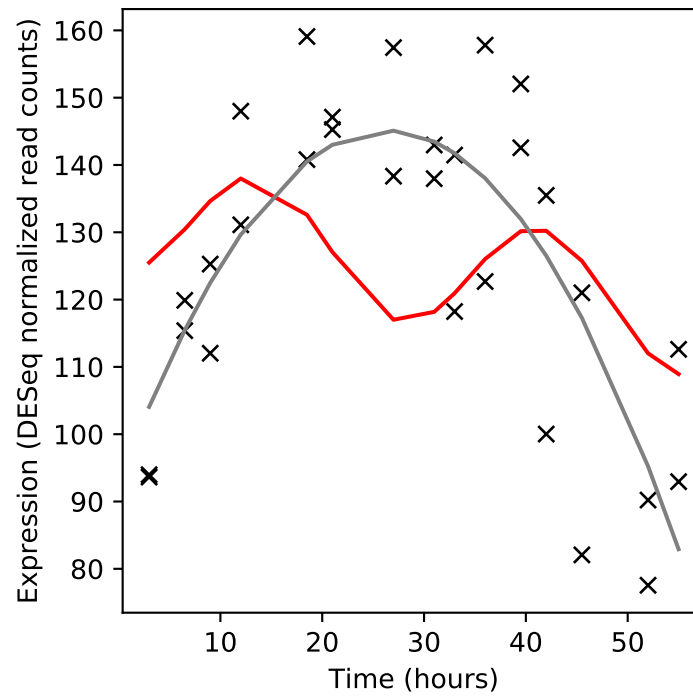
Rv2000/-



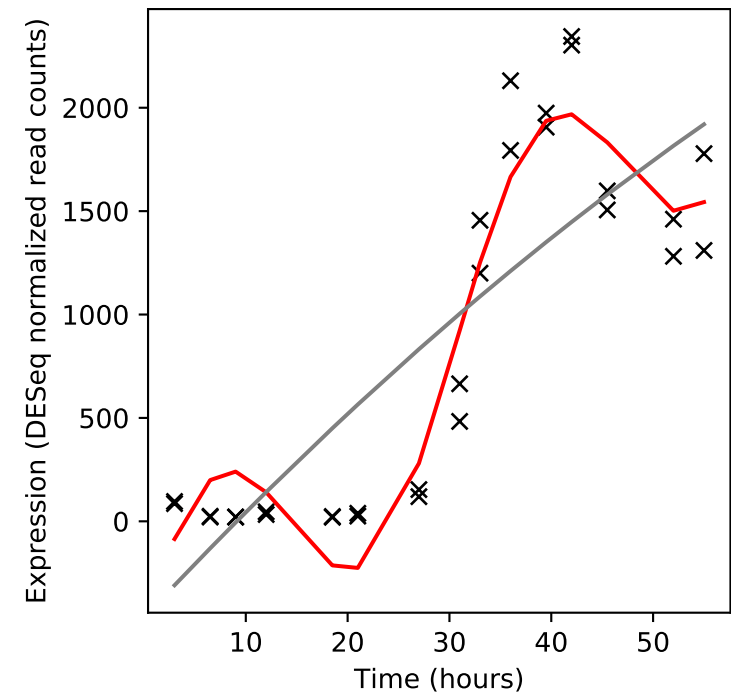
Rv2001/-



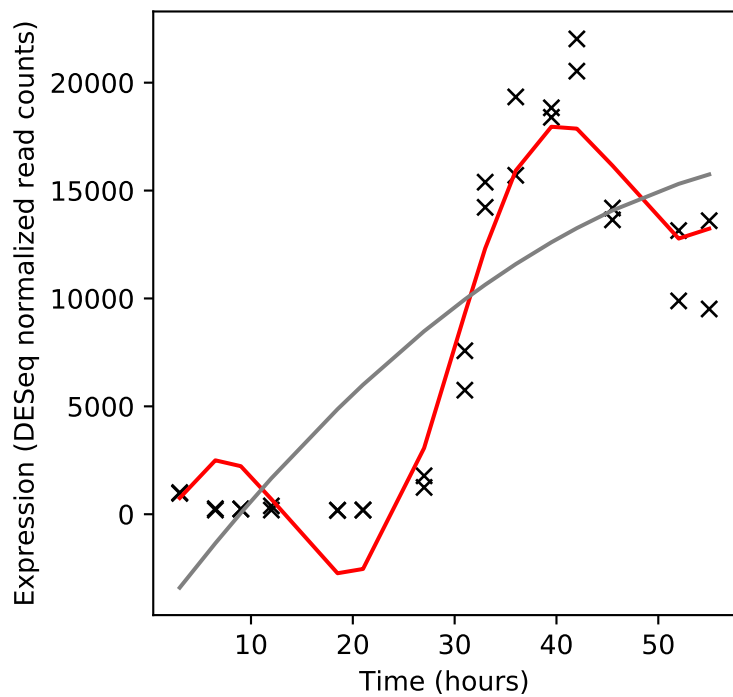
Rv2002/fabG3



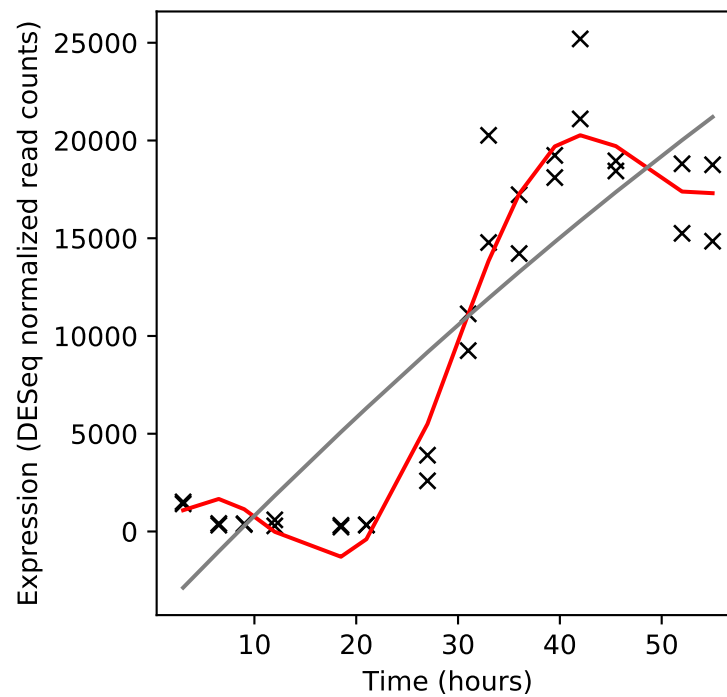
Rv2003c/-



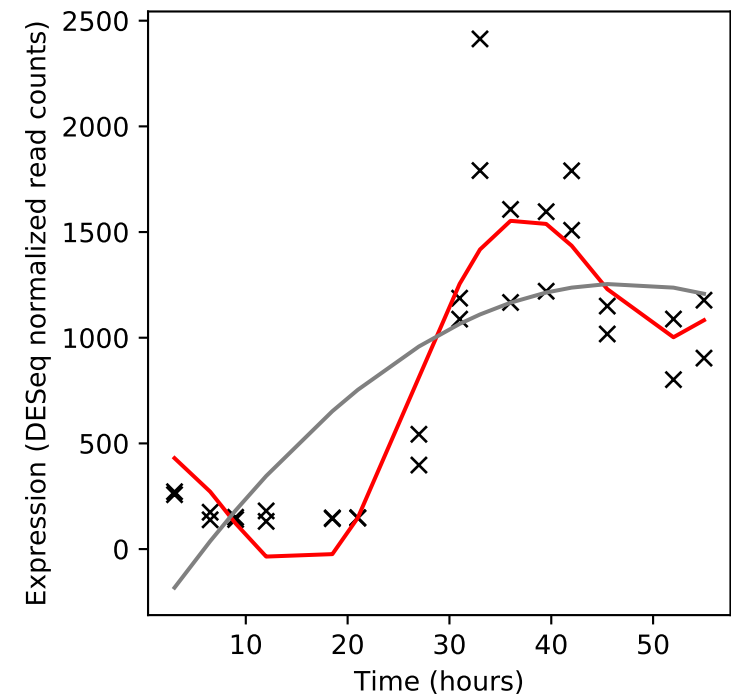
Rv2004c/-



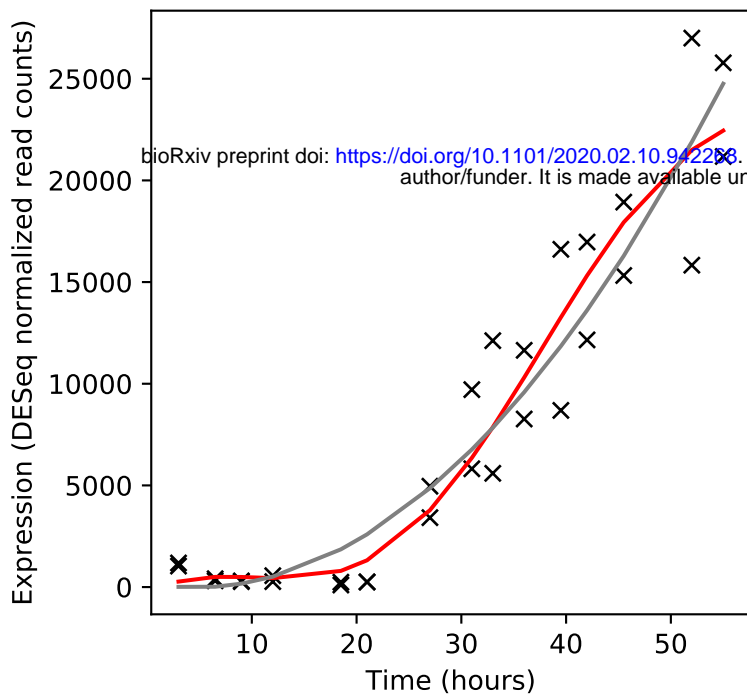
Rv2005c/-



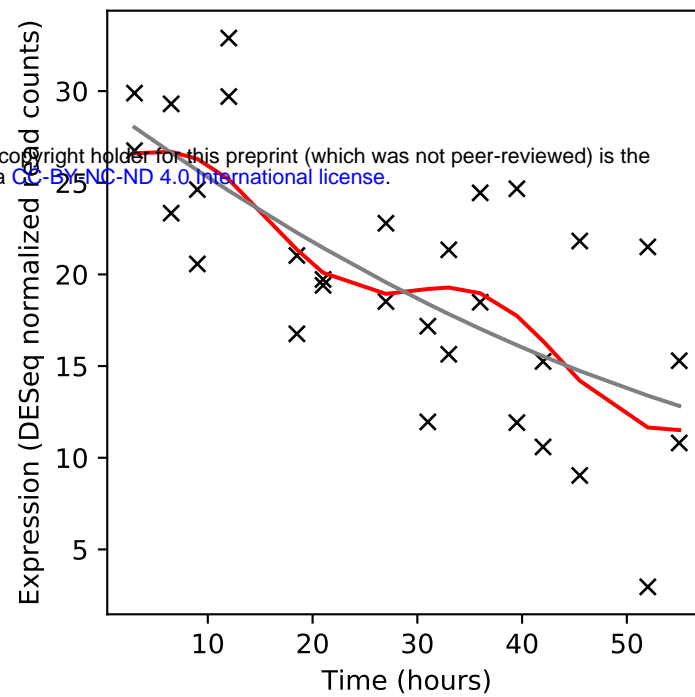
Rv2006/otsB1



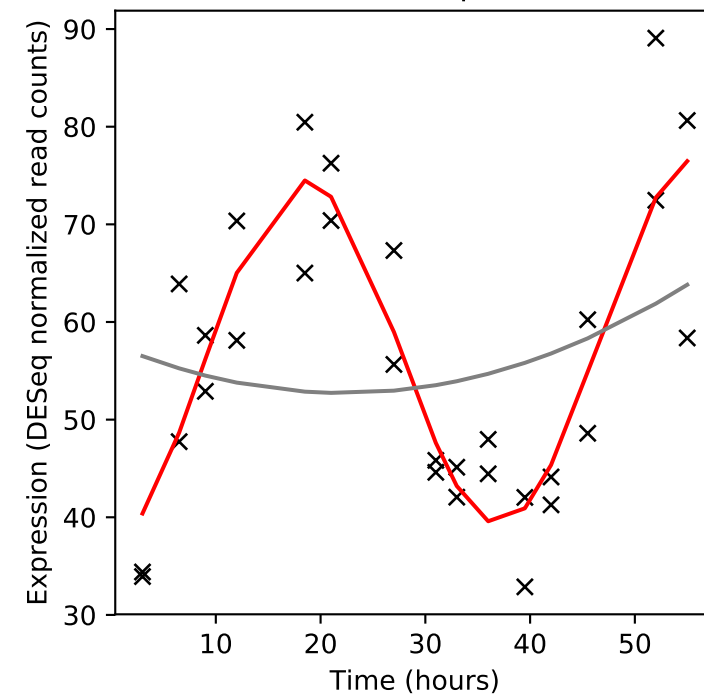
Rv2007c/fdxA



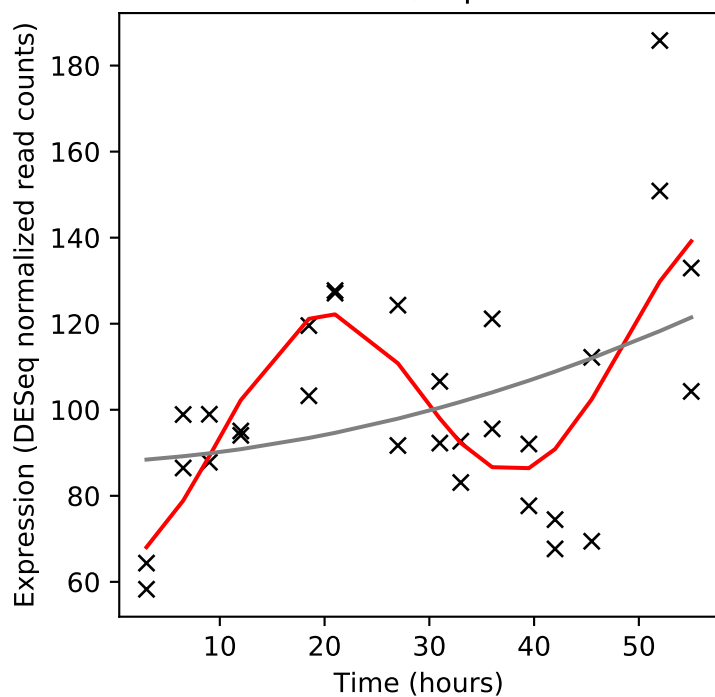
Rv2008c/-



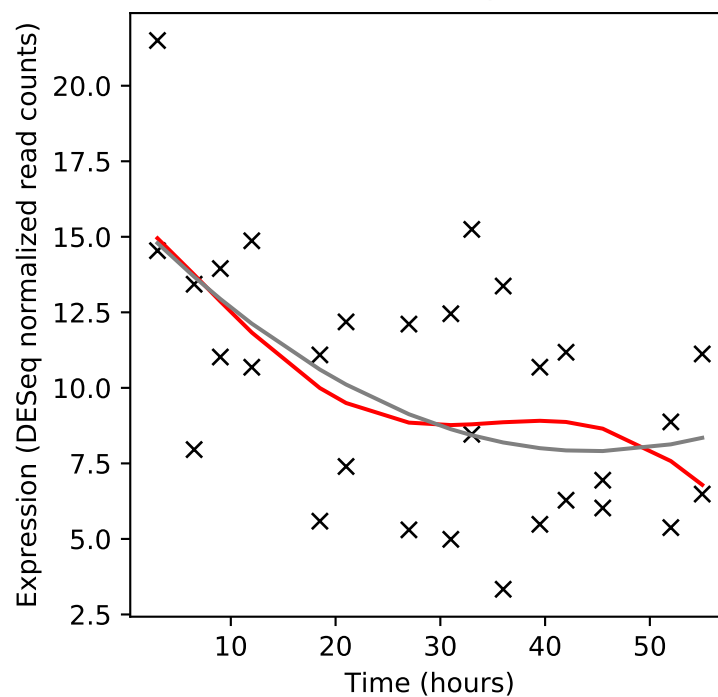
Rv2009/vapB15



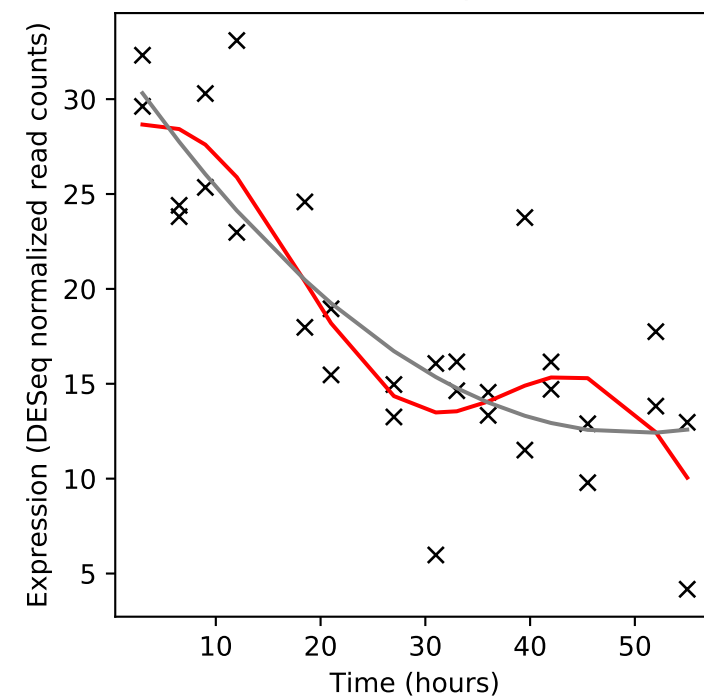
Rv2010/vapC15



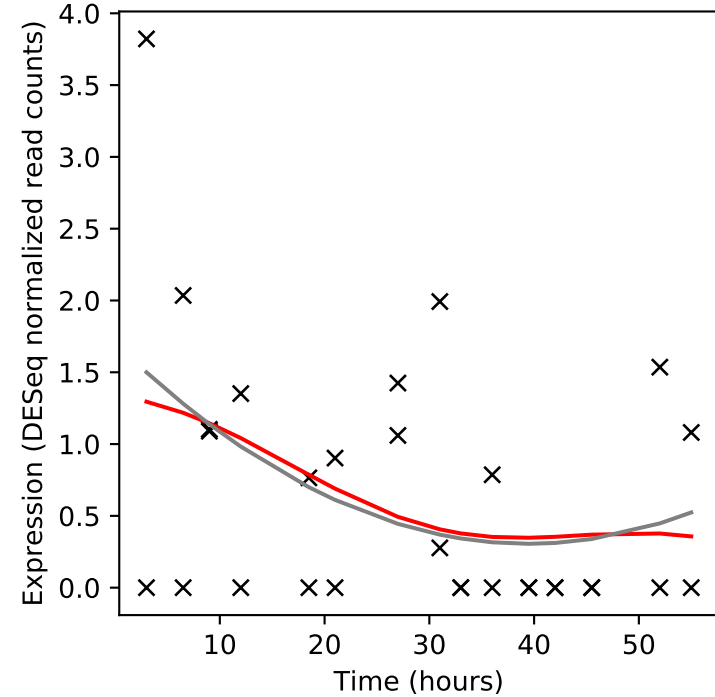
Rv2011c/-



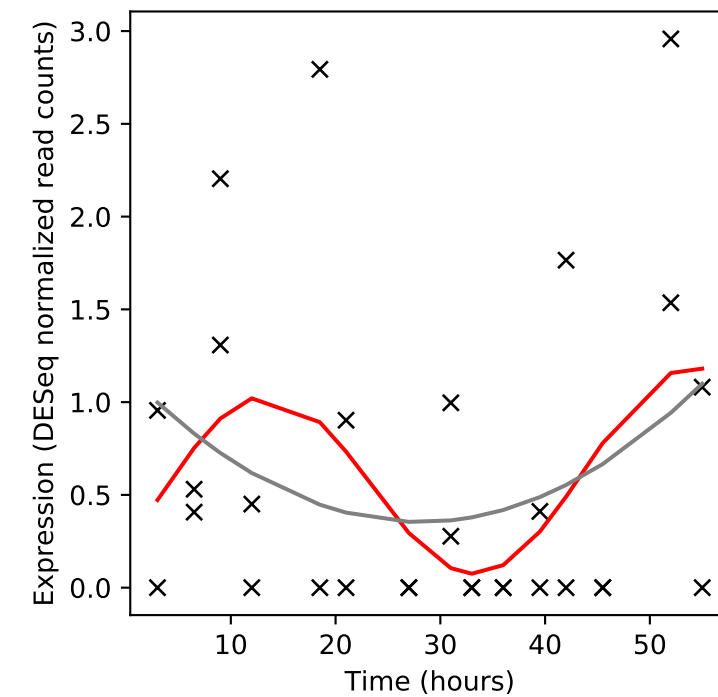
Rv2012/-



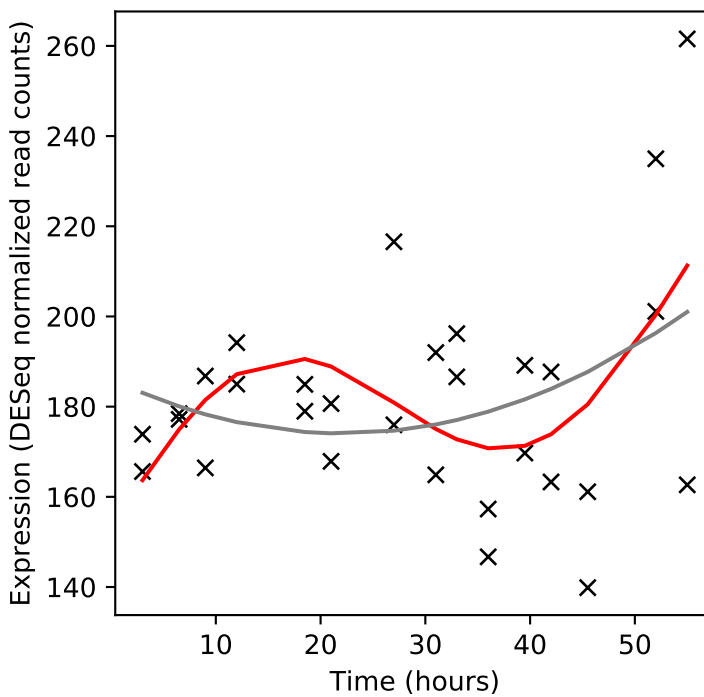
Rv2013/-



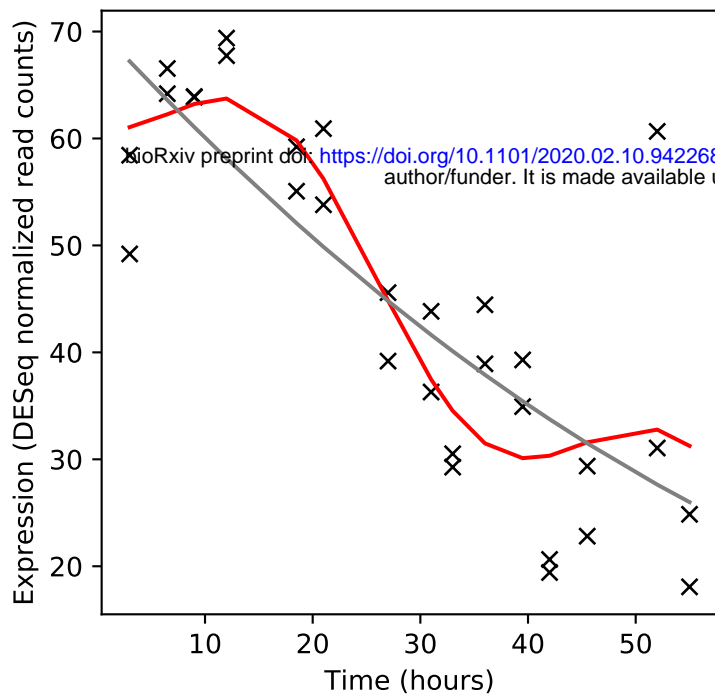
Rv2014/-



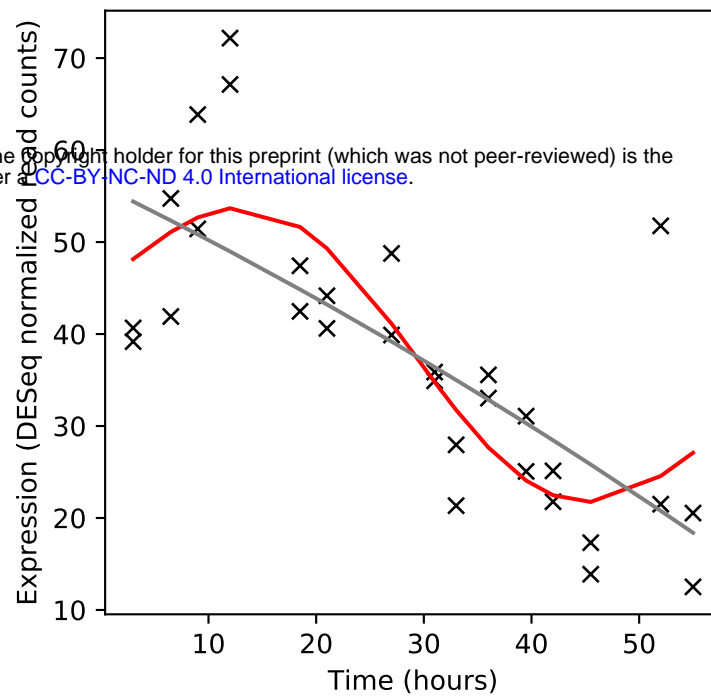
Rv2015c/-



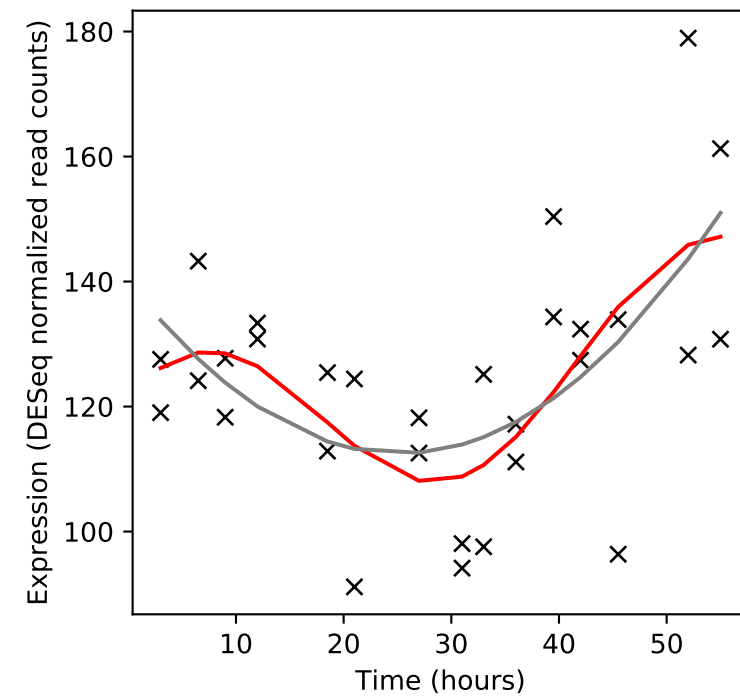
Rv2016/-



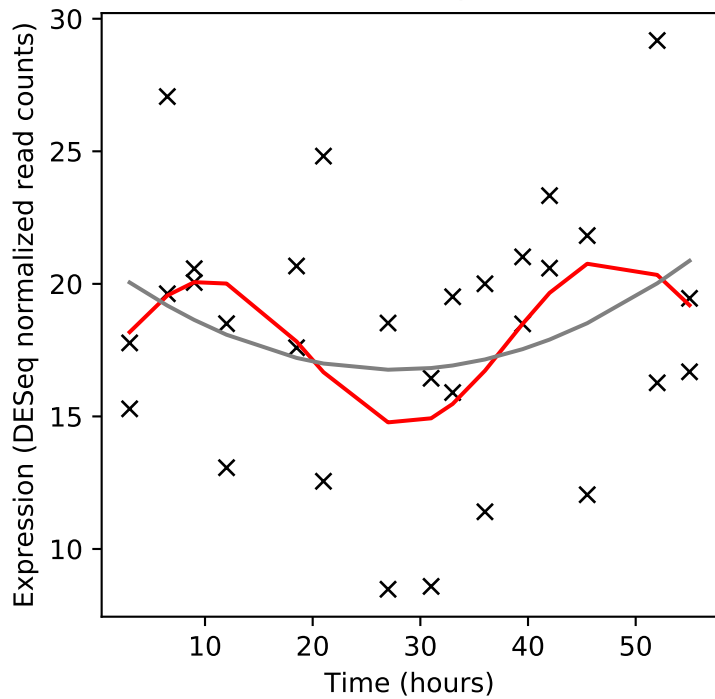
Rv2017/-



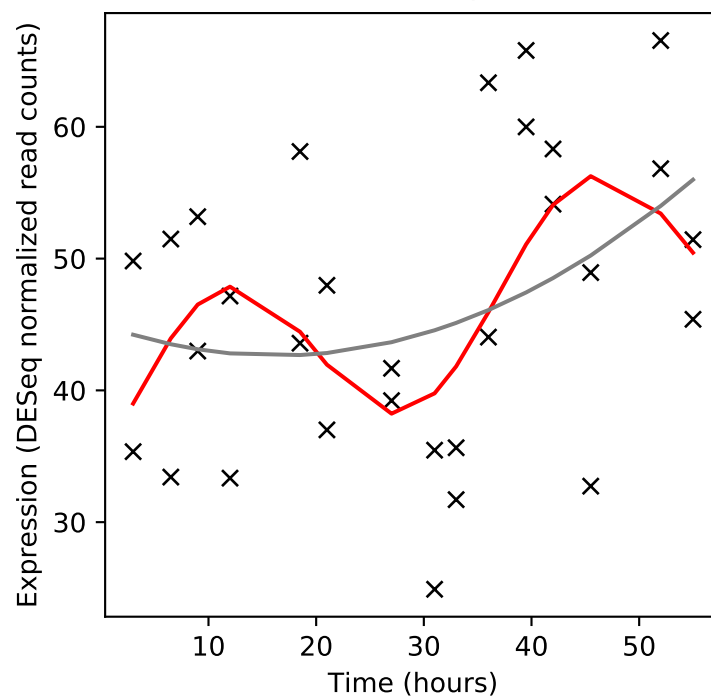
Rv2018/-



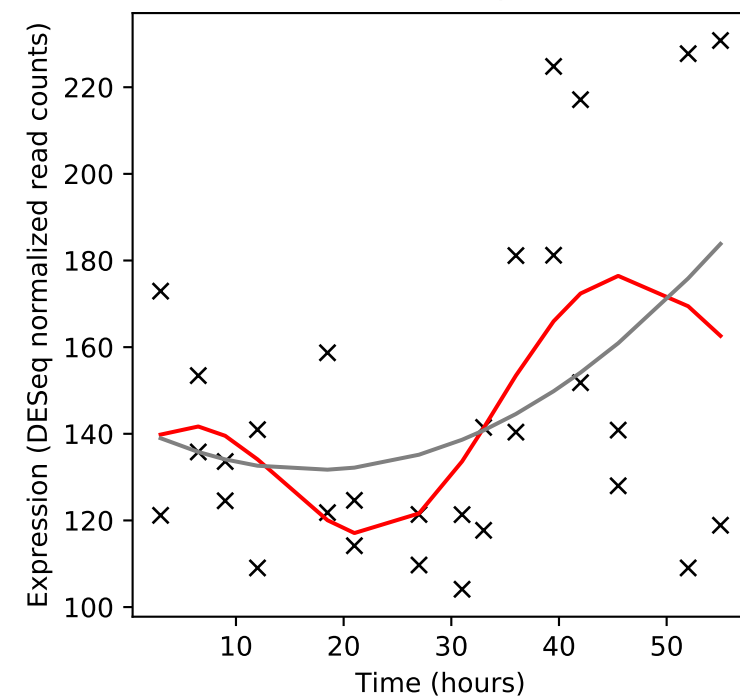
Rv2019/-



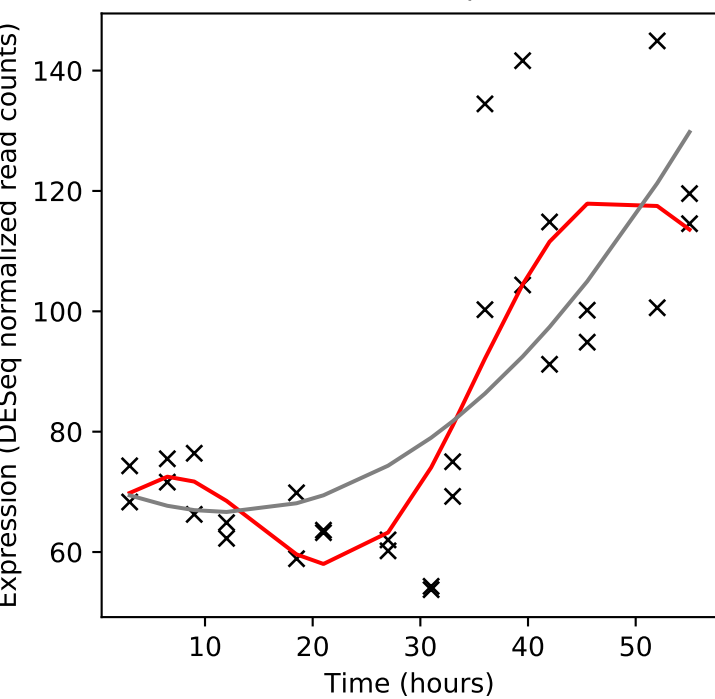
Rv2020c/-



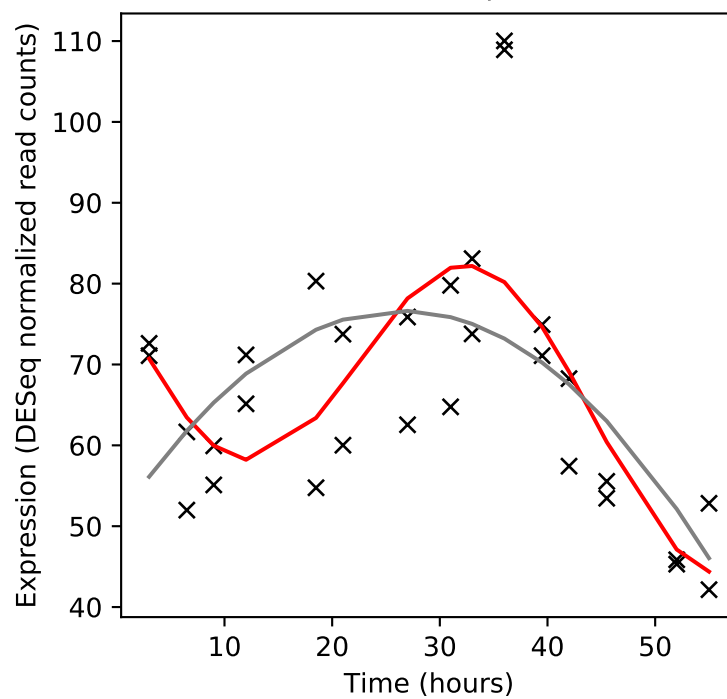
Rv2021c/-



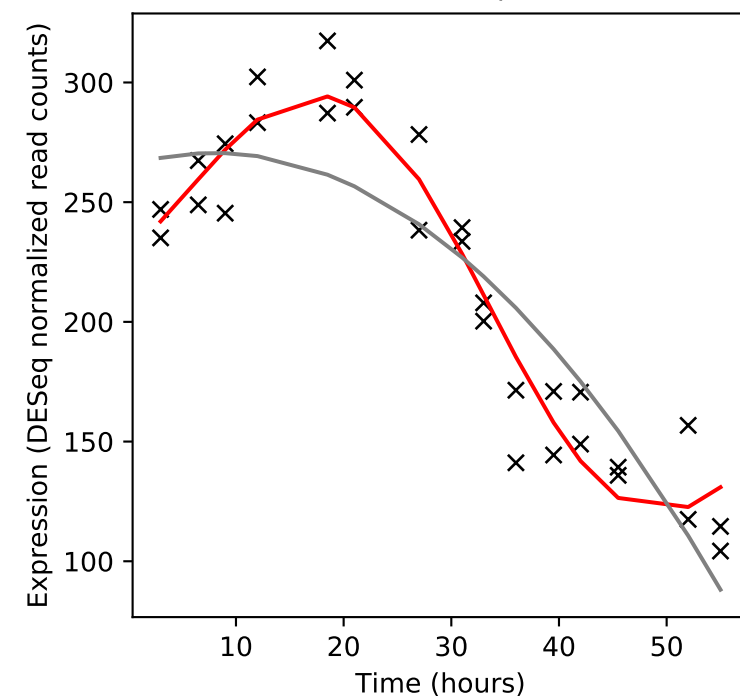
Rv2022c/-



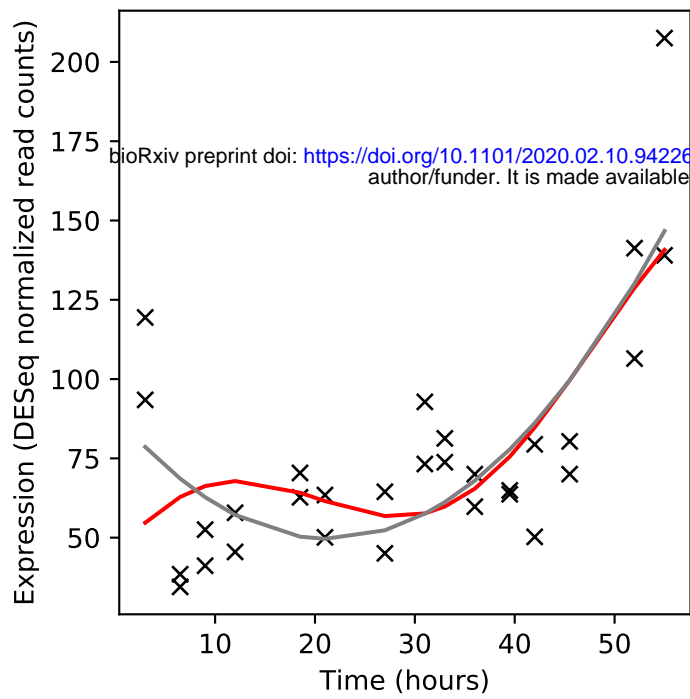
Rv2023c/-



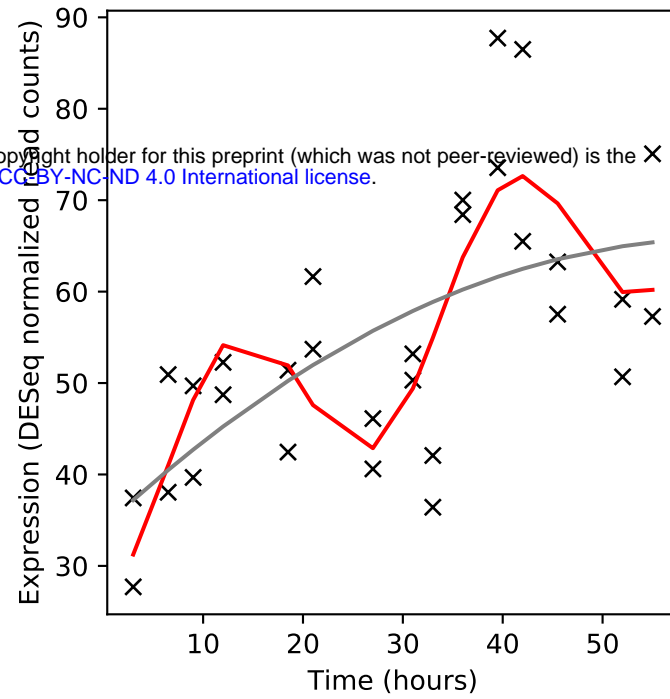
Rv2024c/-



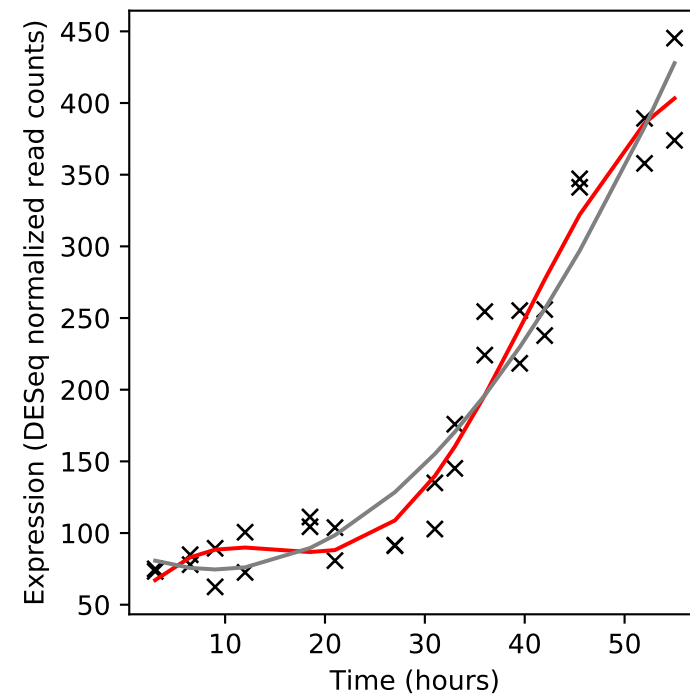
Rv2025c/-



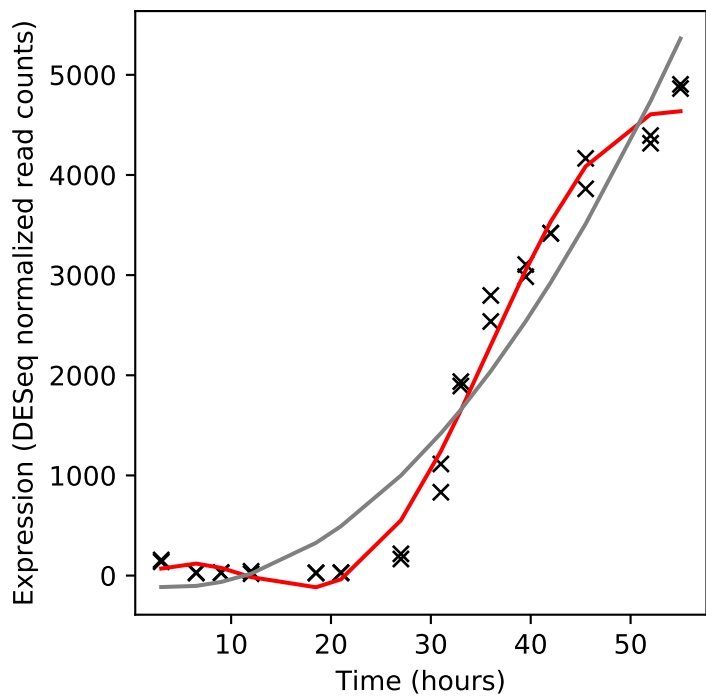
Rv2026c/-



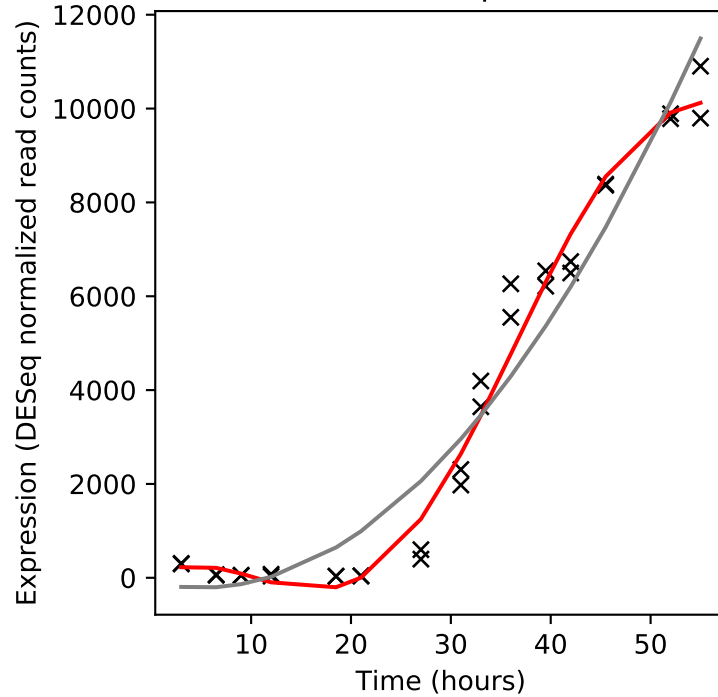
Rv2027c/dosT



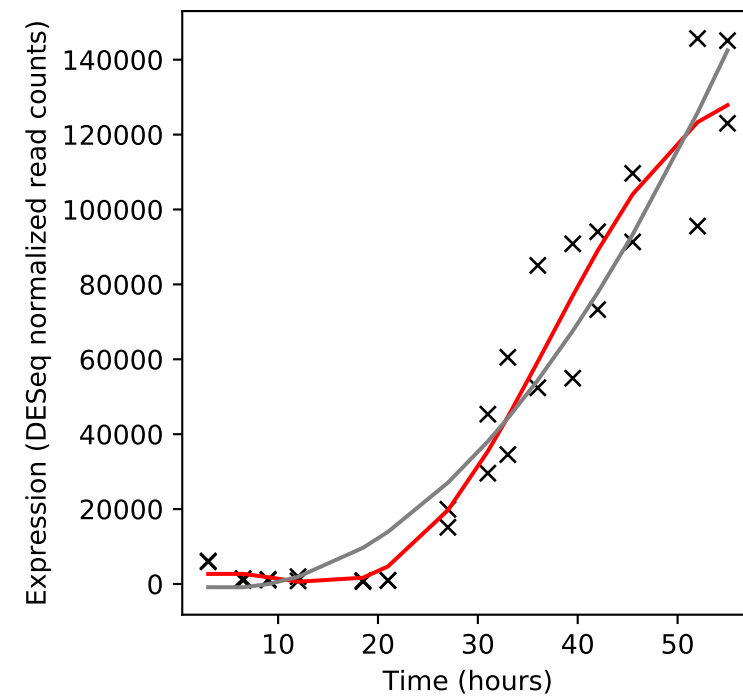
Rv2028c/-



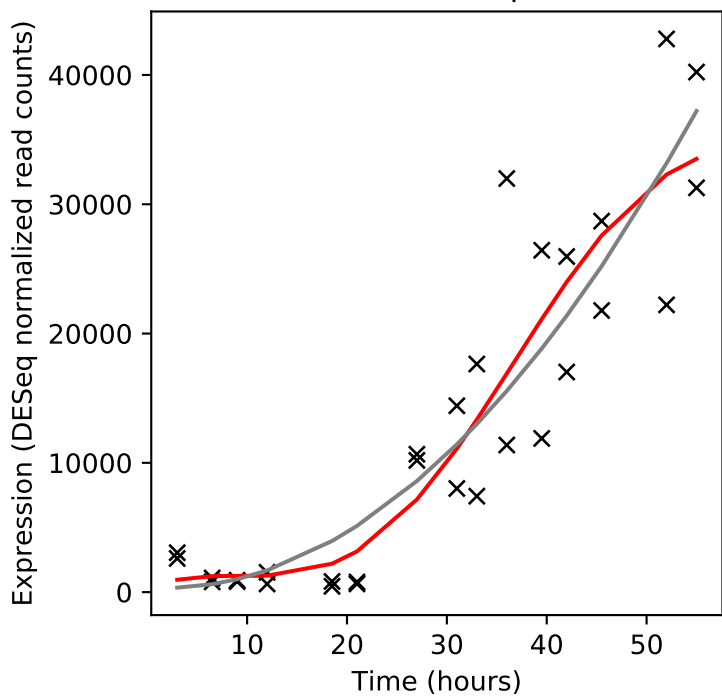
Rv2029c/pfkB



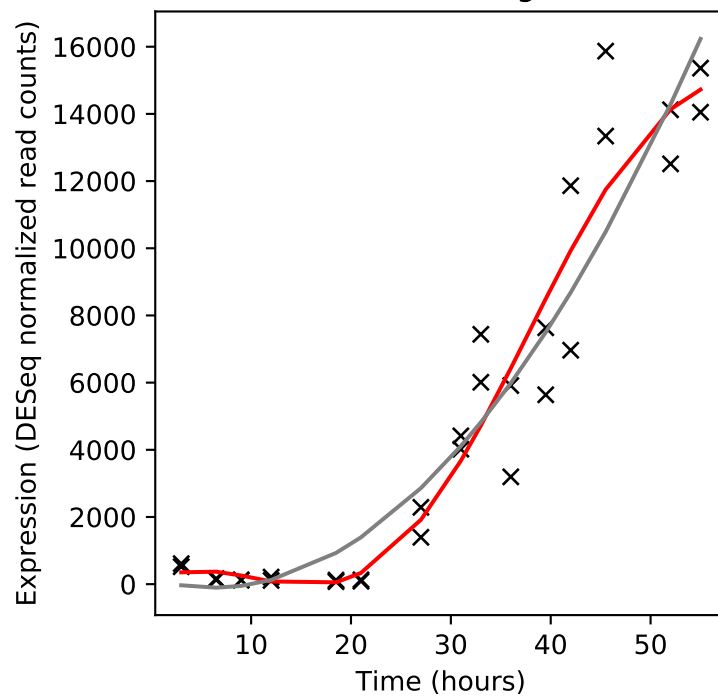
Rv2030c/-



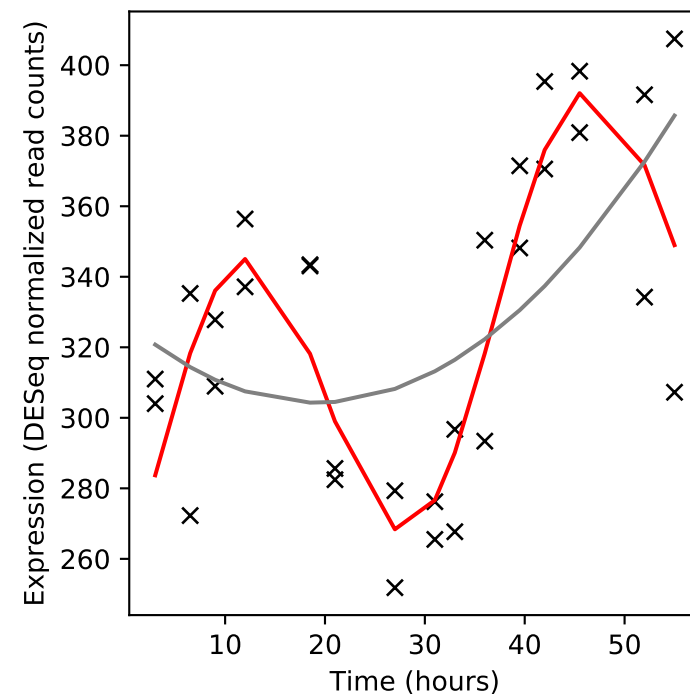
Rv2031c/hspX



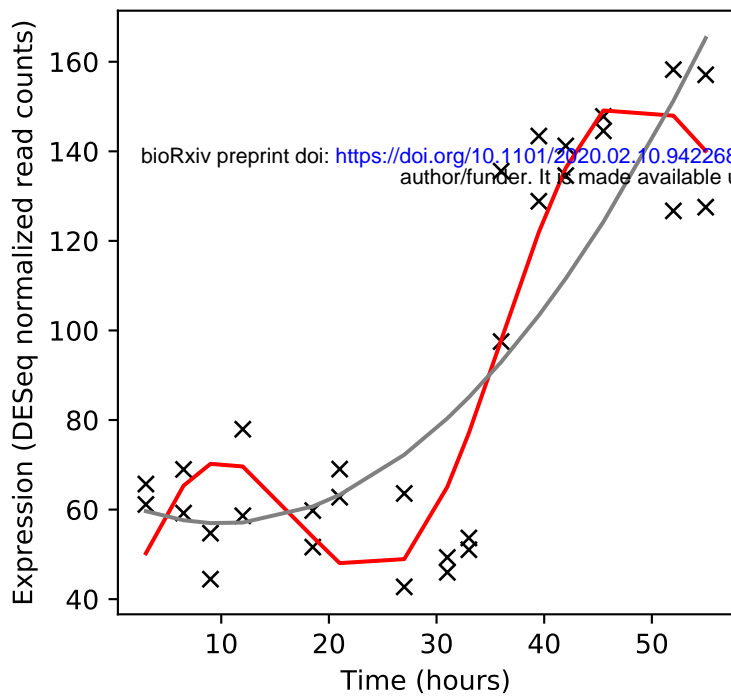
Rv2032/acg



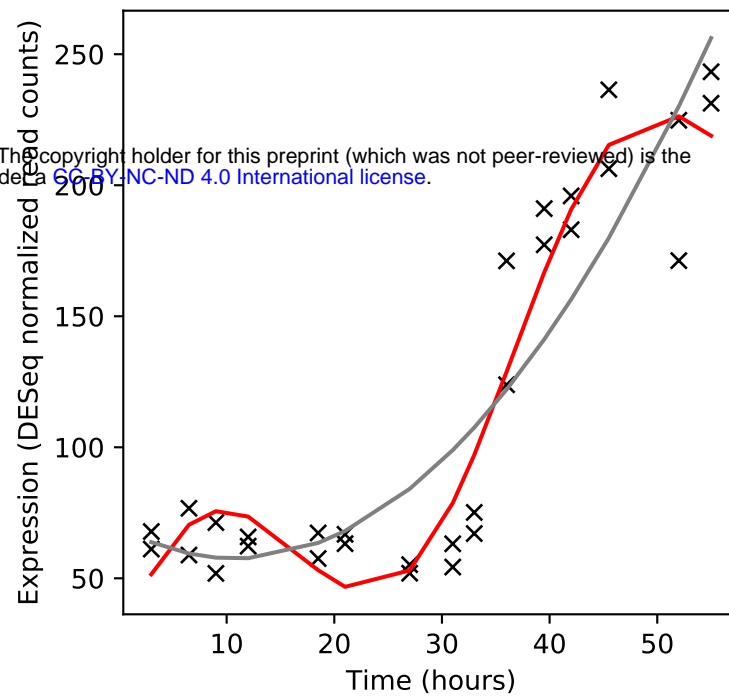
Rv2033c/-



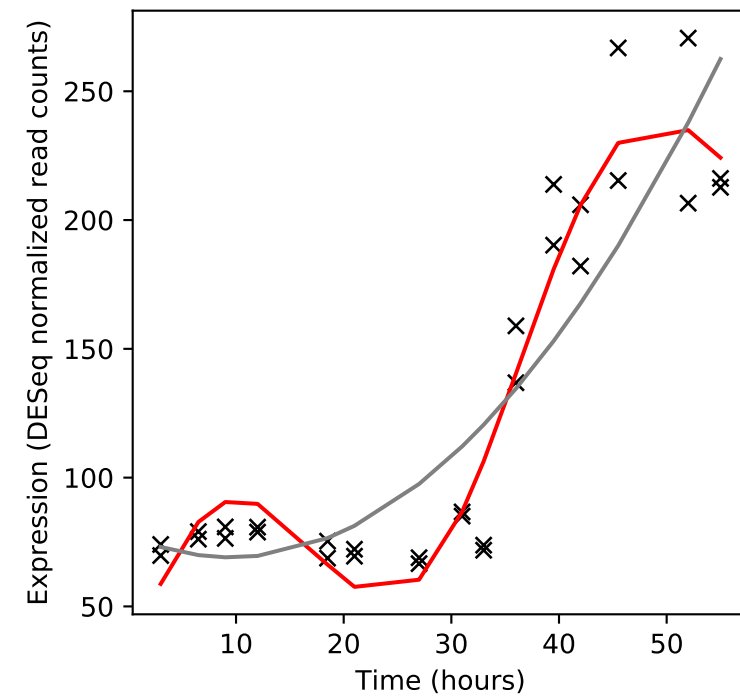
Rv2034c/-



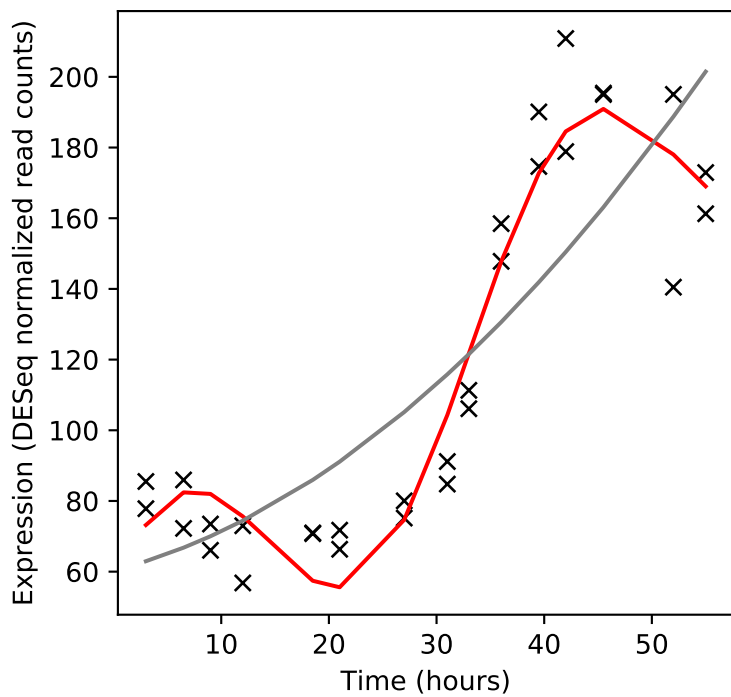
Rv2035c/-



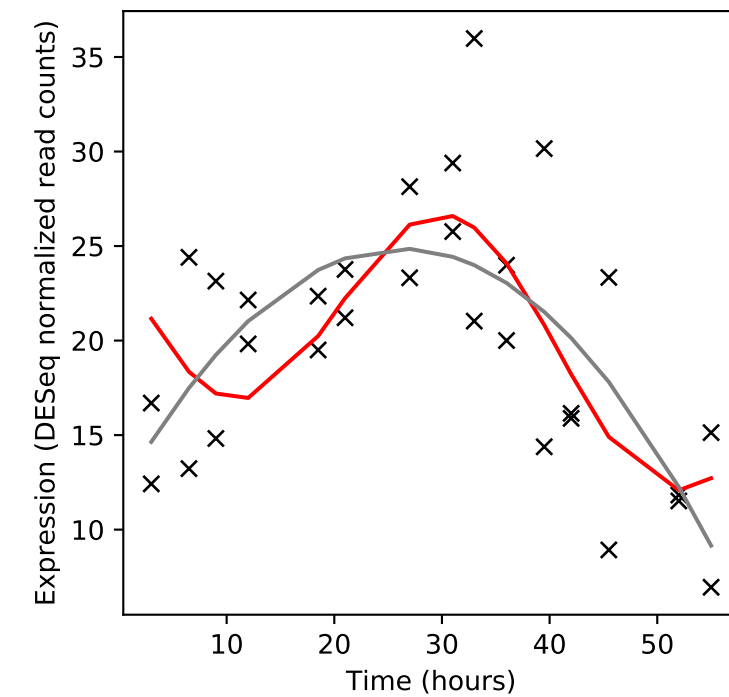
Rv2036c/-



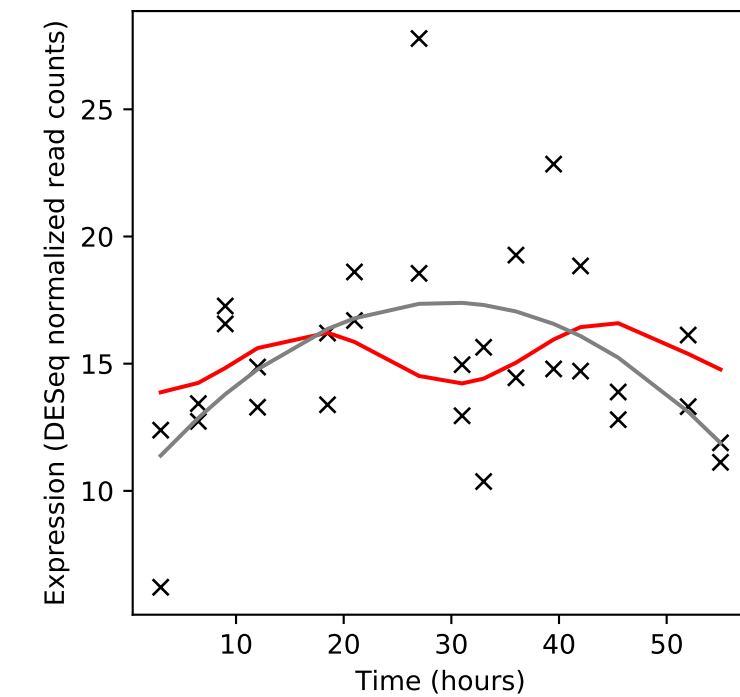
Rv2037c/-



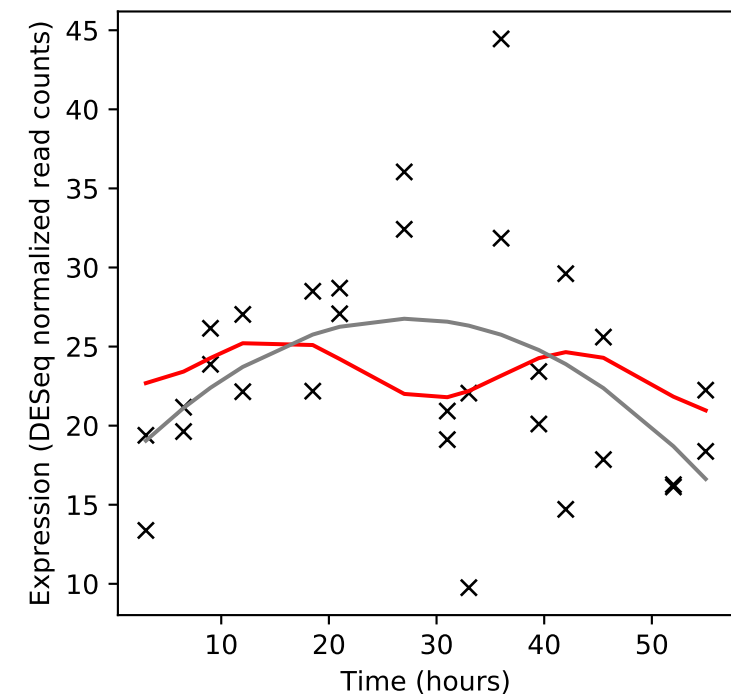
Rv2038c/-



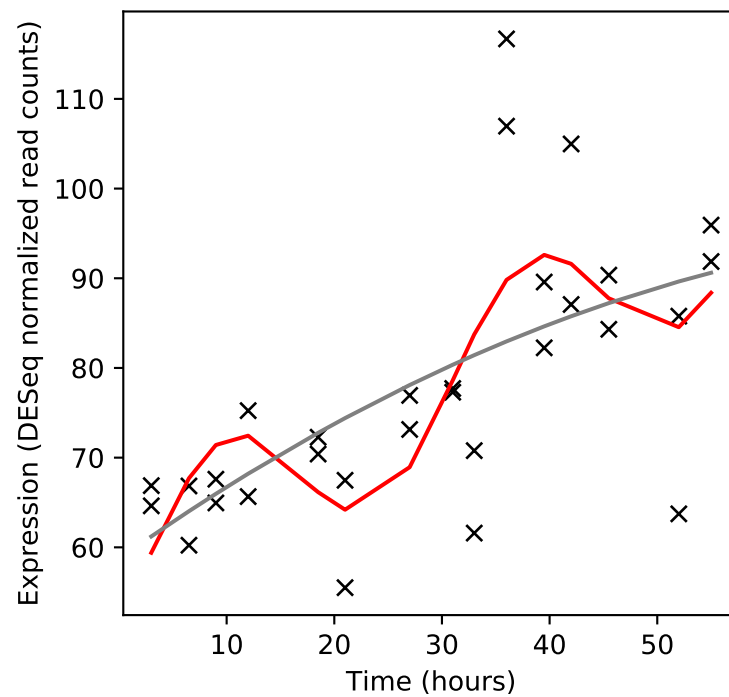
Rv2039c/-



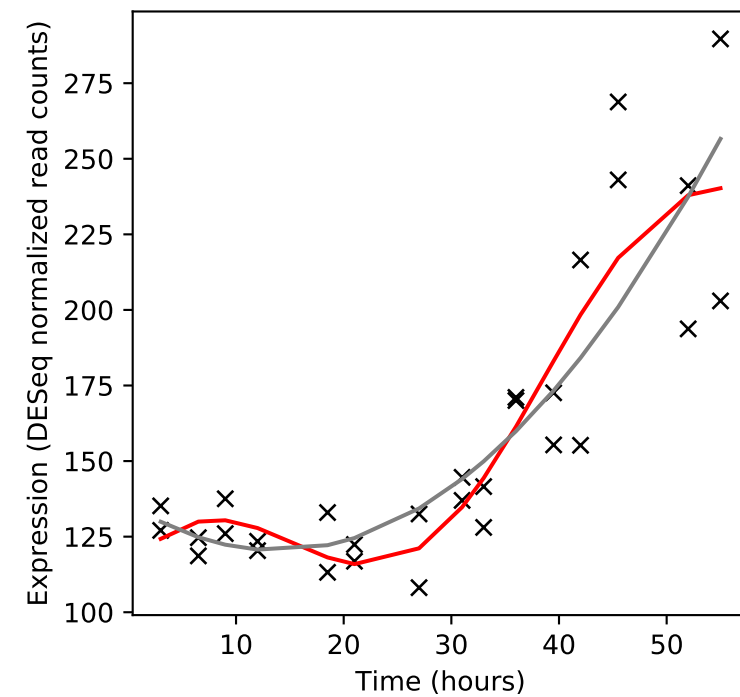
Rv2040c/-



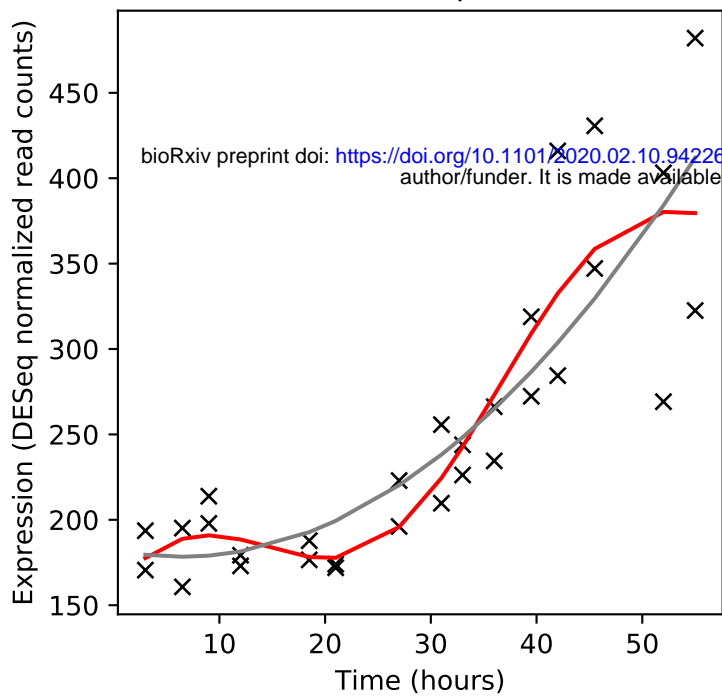
Rv2041c/-



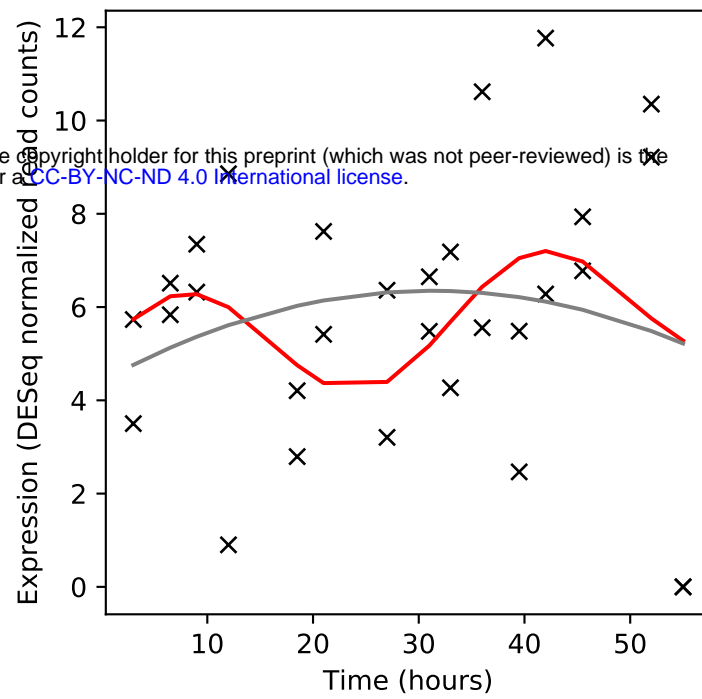
Rv2042c/-



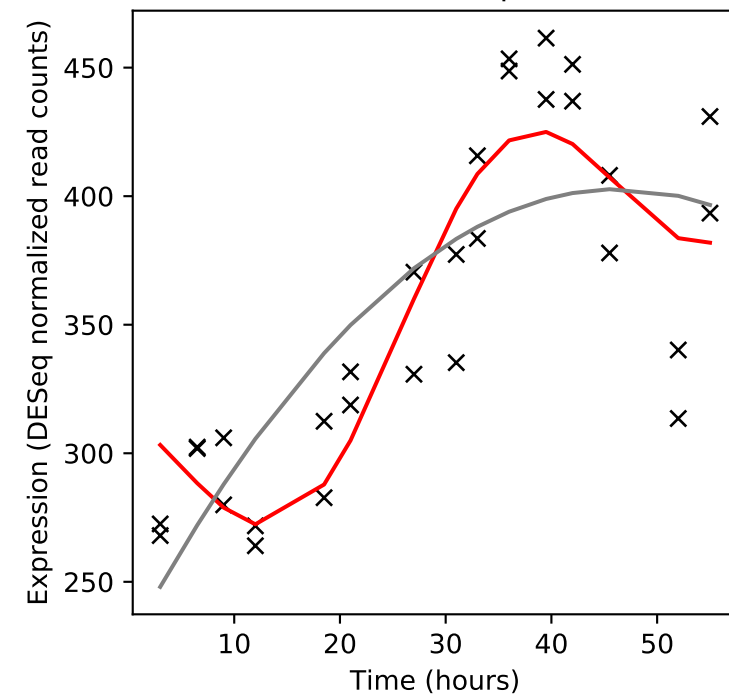
Rv2043c/pncA



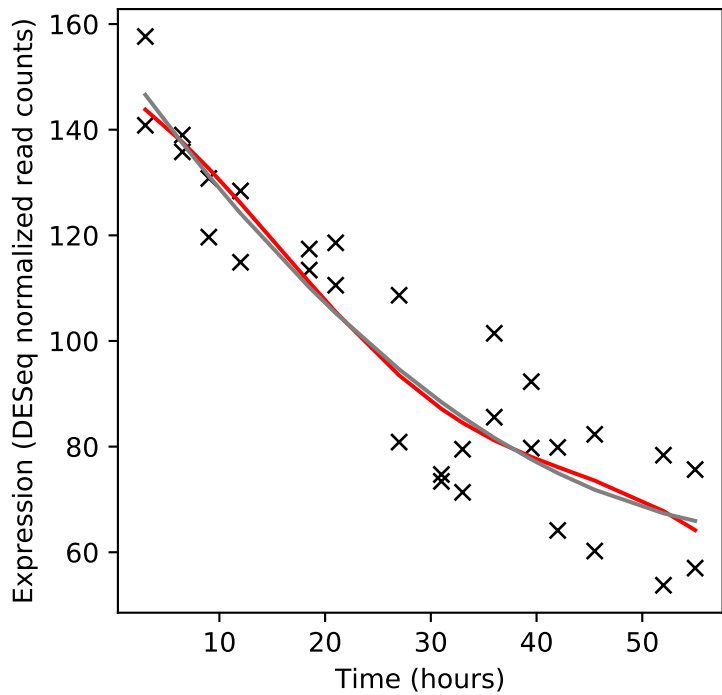
Rv2044c/-



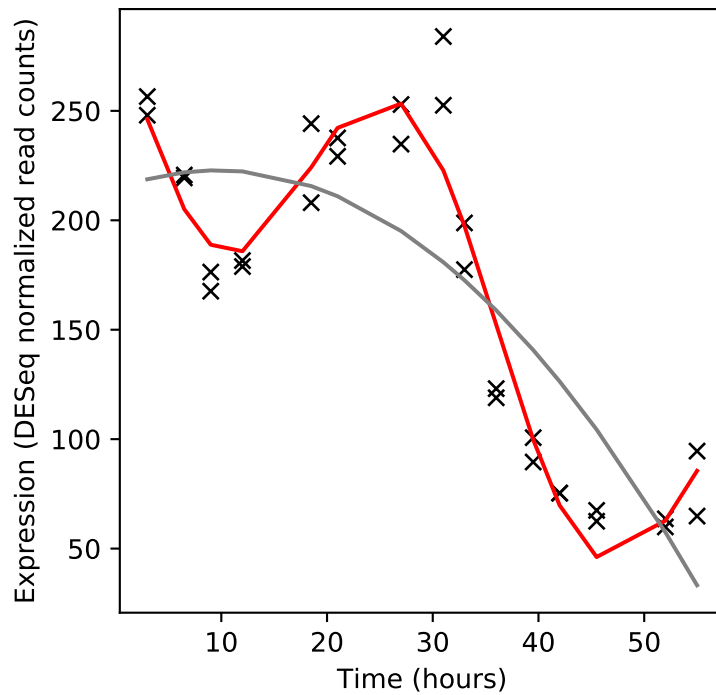
Rv2045c/lipT



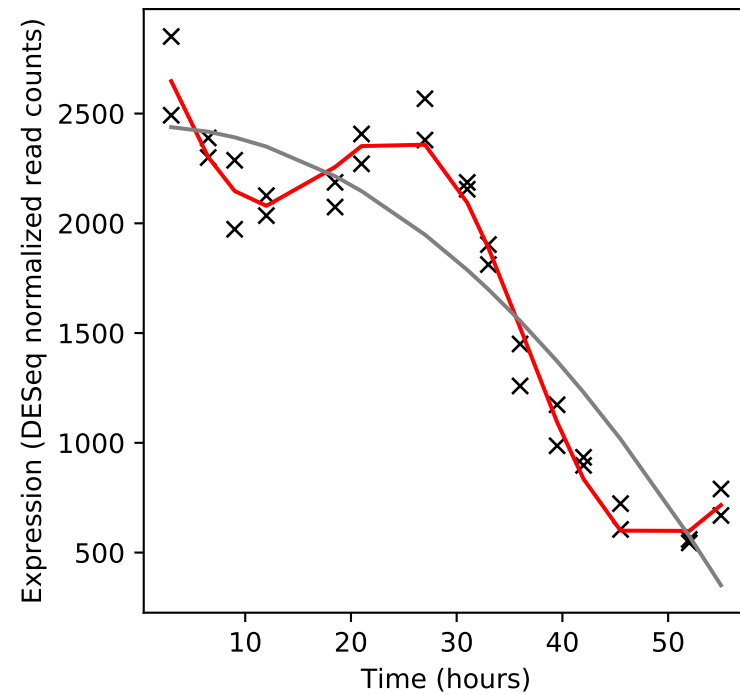
Rv2046/lppl



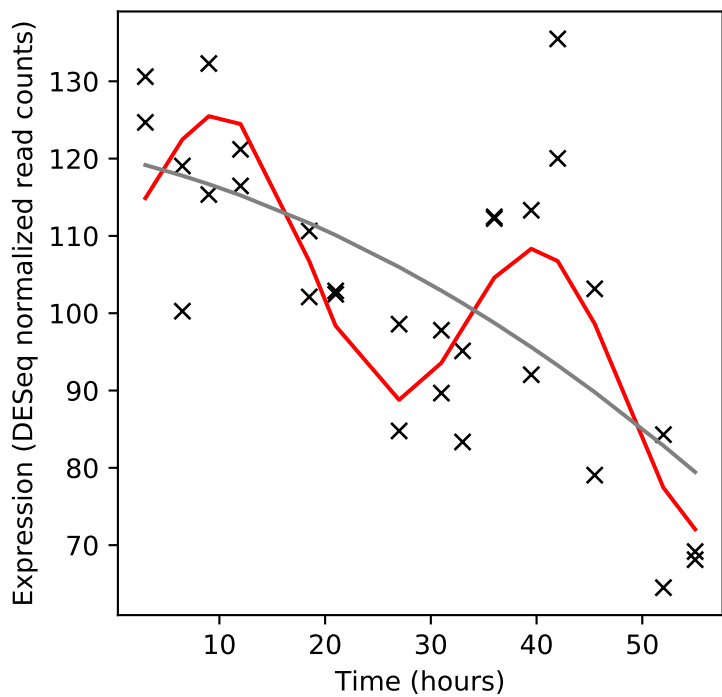
Rv2047c/-



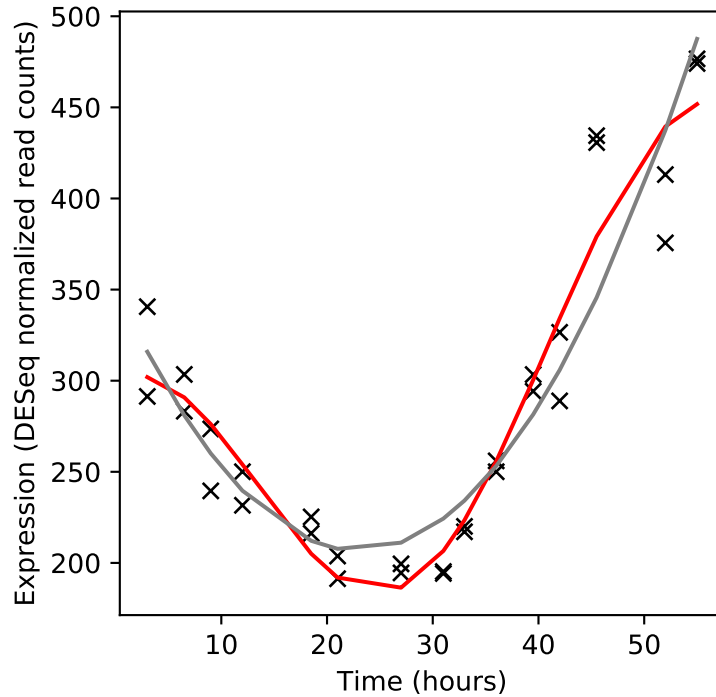
Rv2048c/pks12



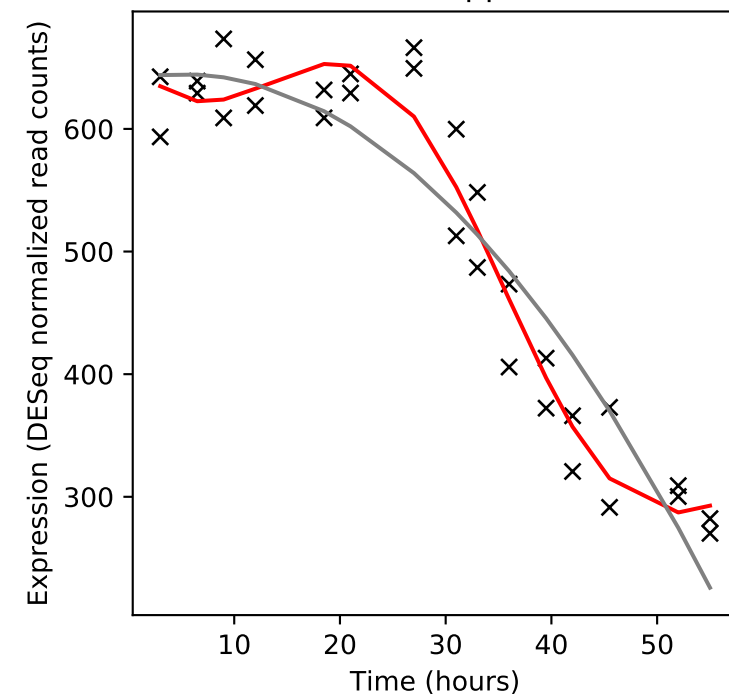
Rv2049c/-



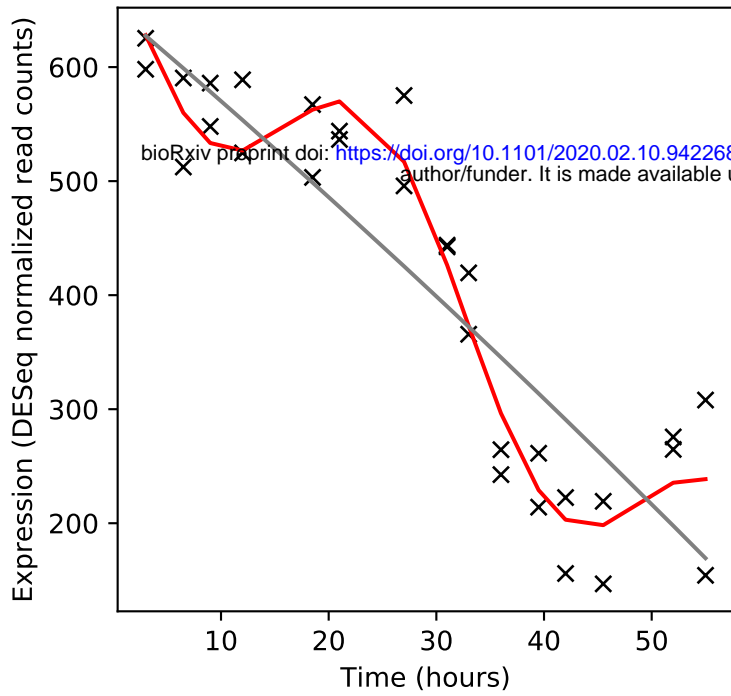
Rv2050/-



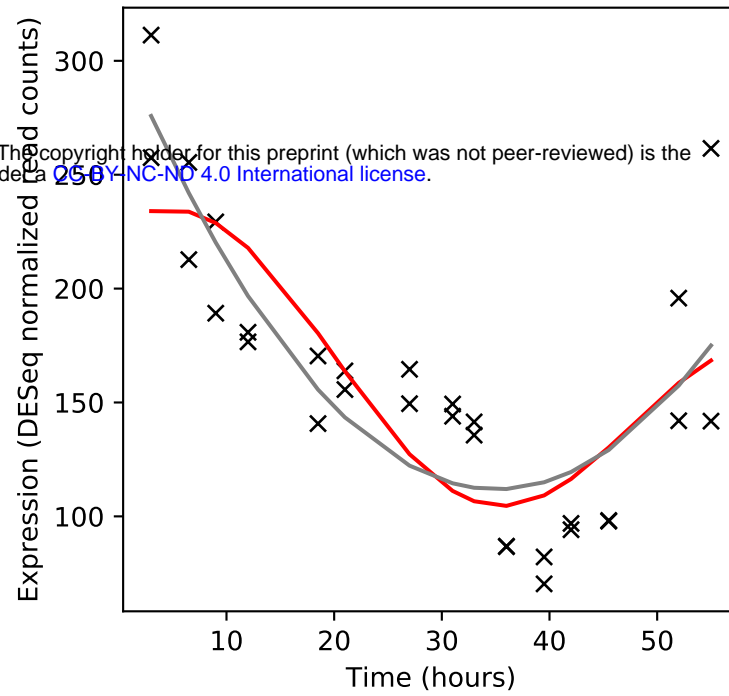
Rv2051c/ppm1



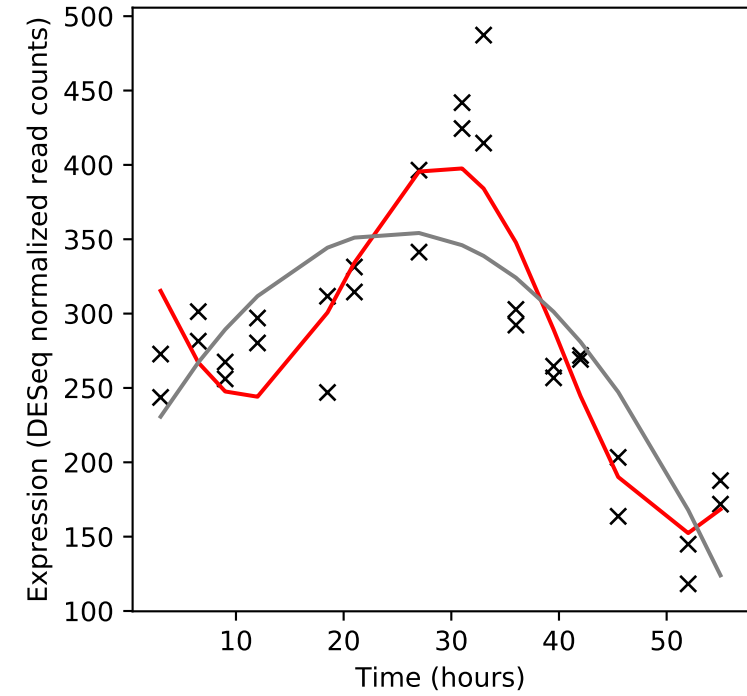
Rv2052c/-



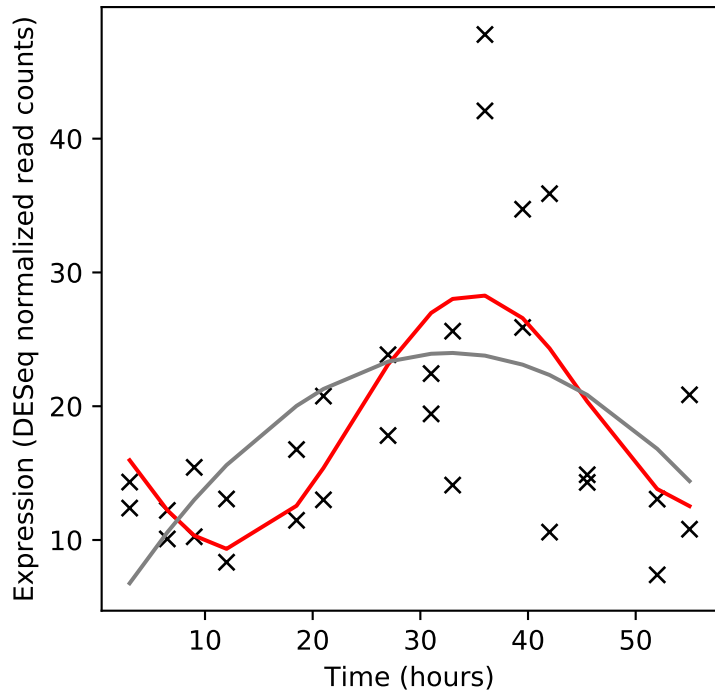
Rv2053c/fxsA



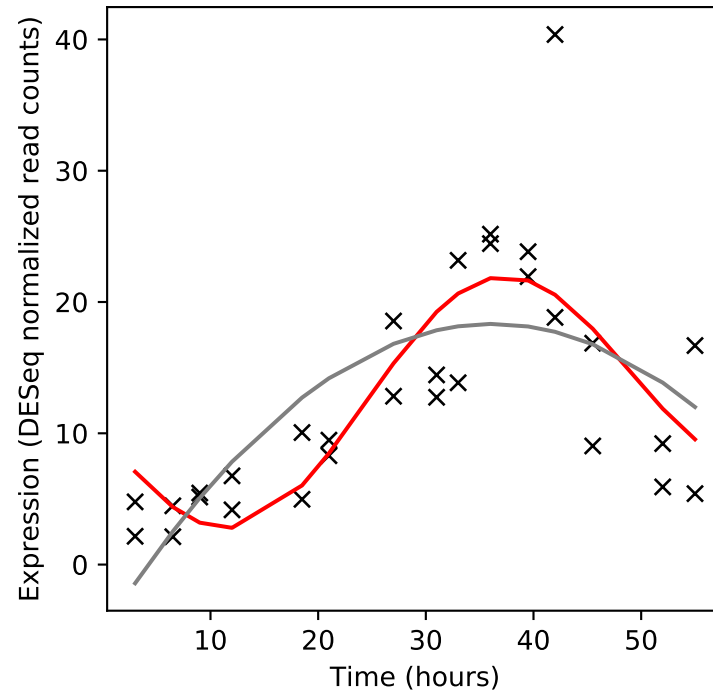
Rv2054/-



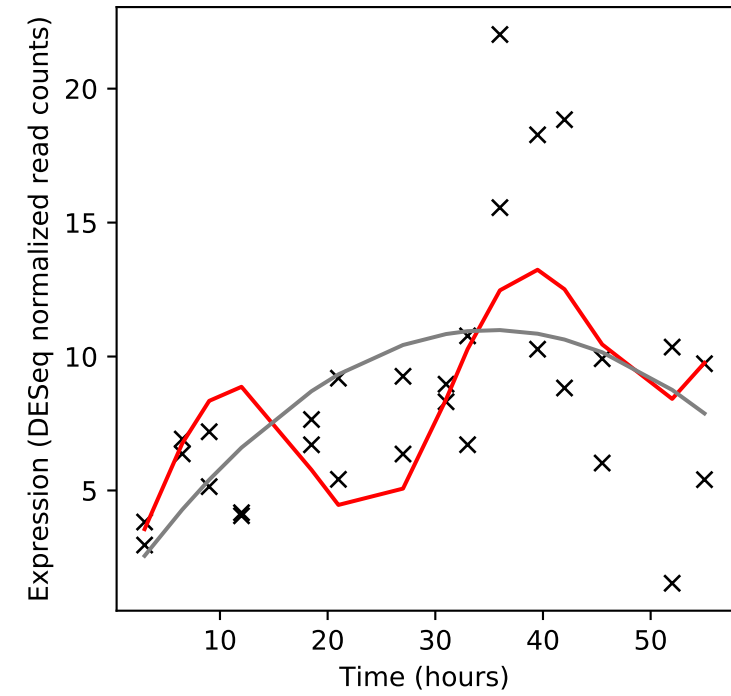
Rv2055c/rpsR2



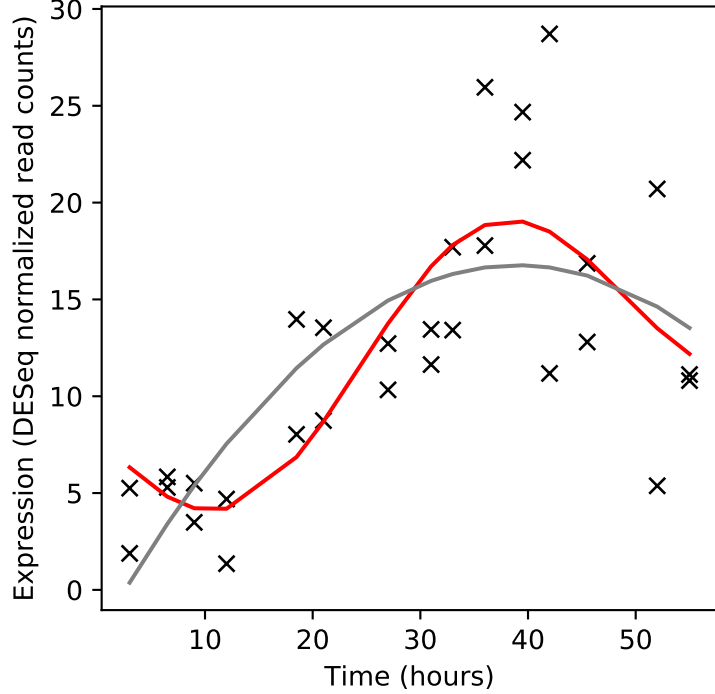
Rv2056c/rpsN2



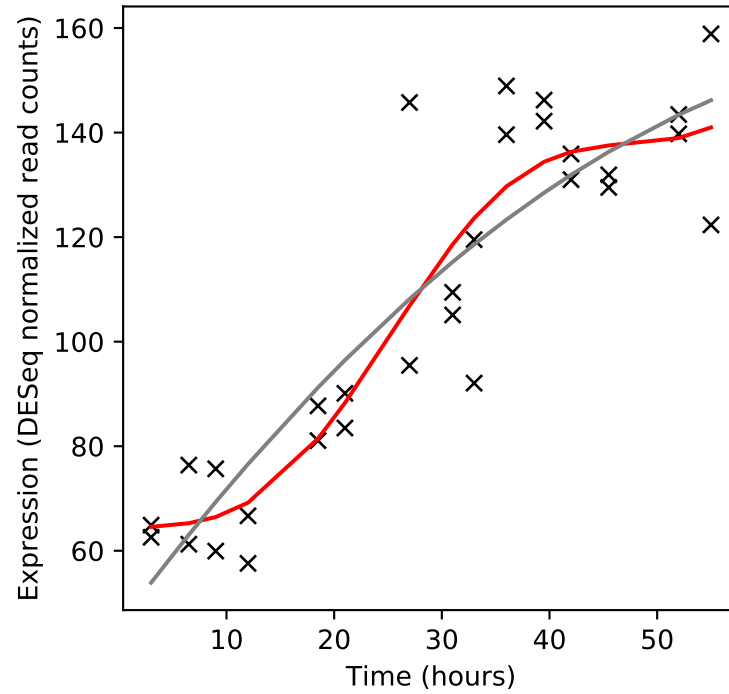
Rv2057c/rpmG1



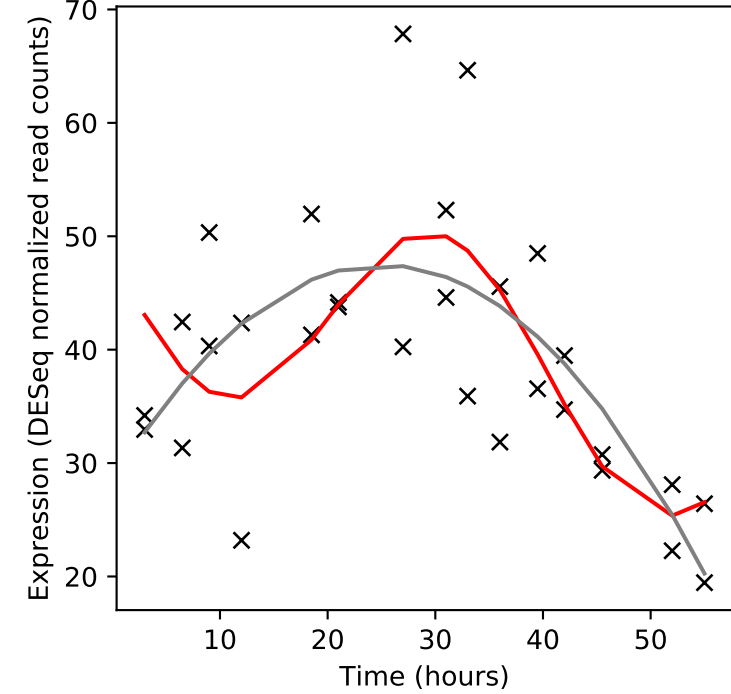
Rv2058c/rpmB2



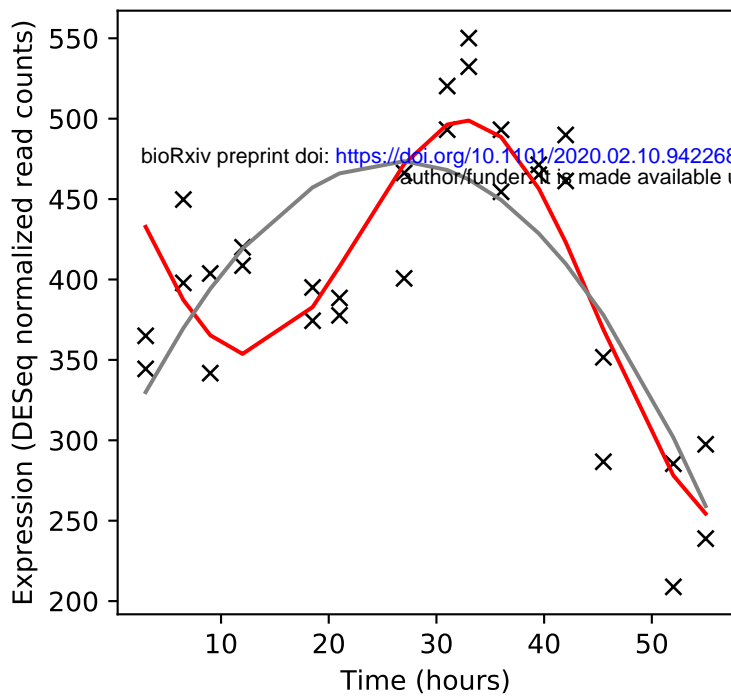
Rv2059/-



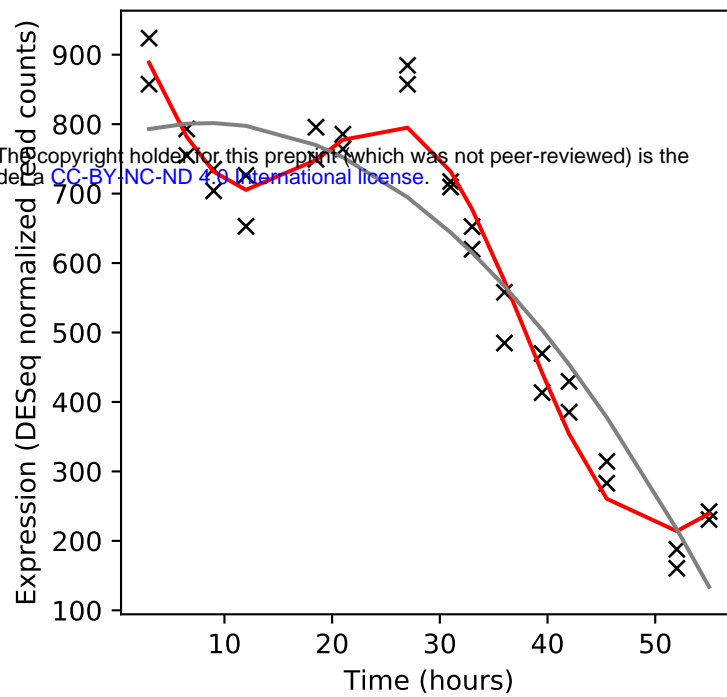
Rv2060/-



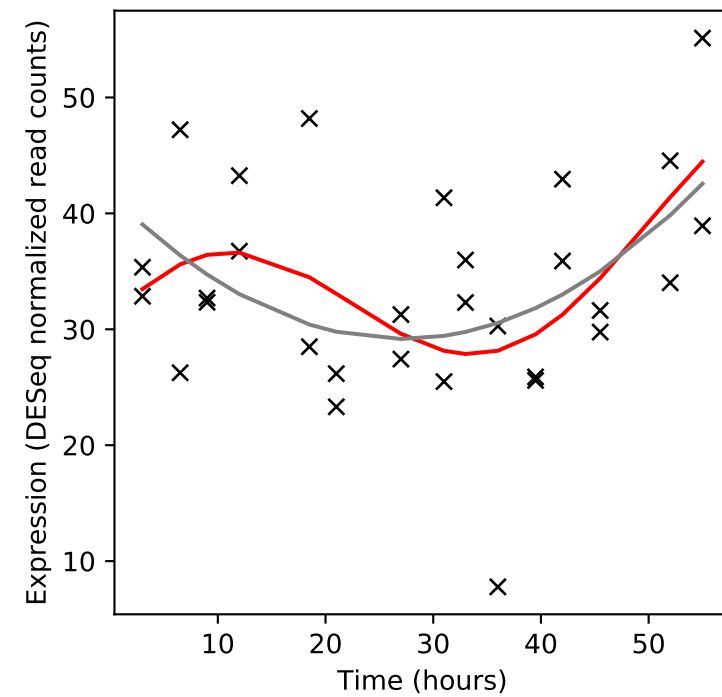
Rv2061c/-



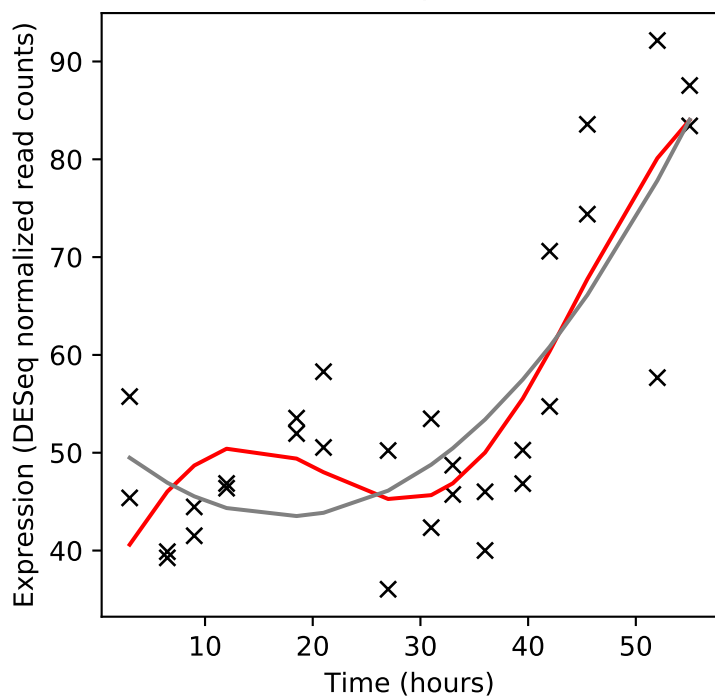
Rv2062c/cobN



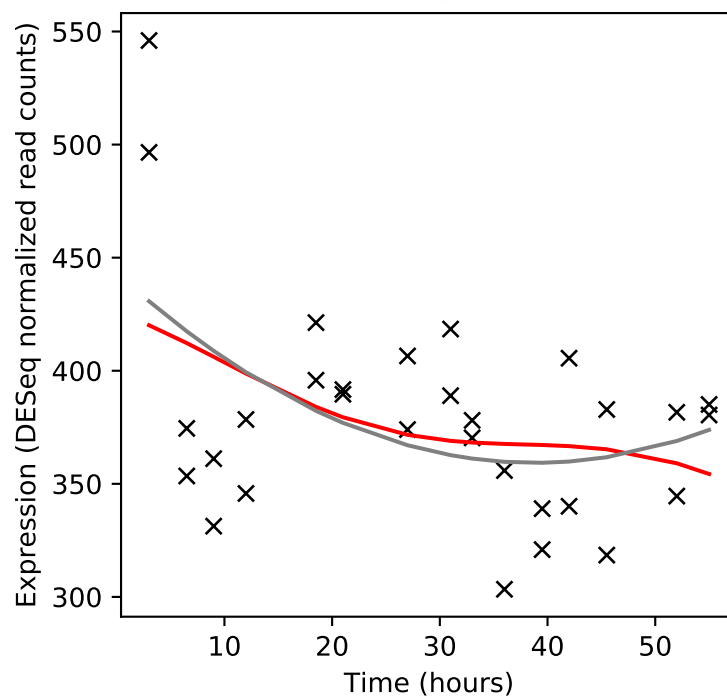
Rv2063/mazE7



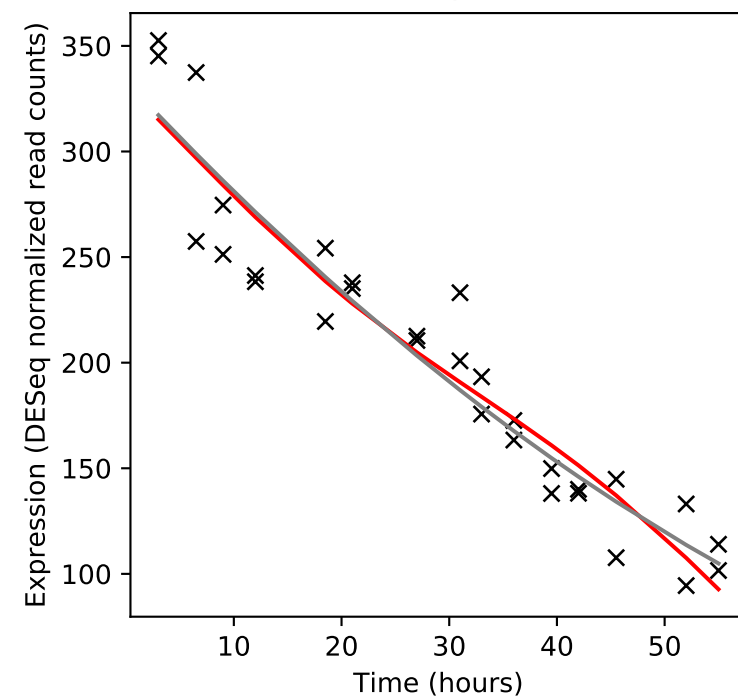
Rv2063A/mazF7



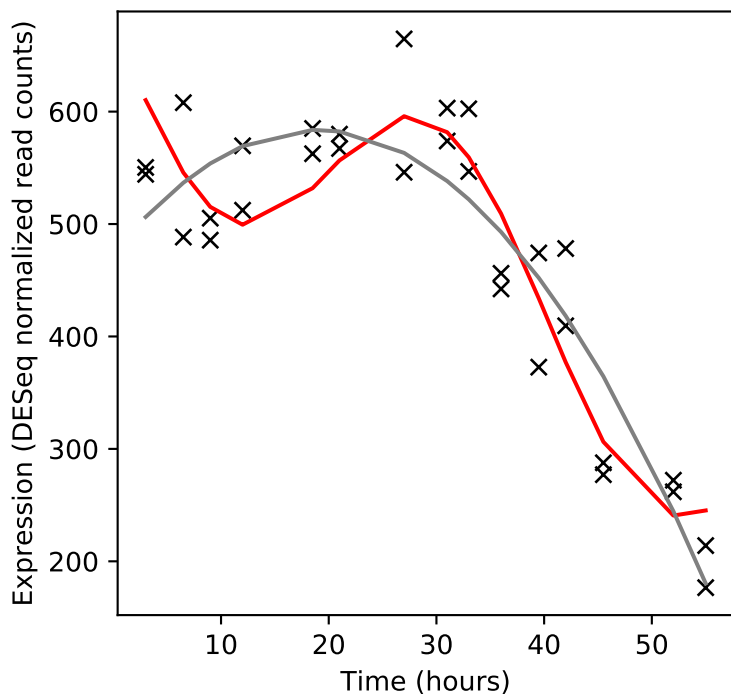
Rv2064/cobG



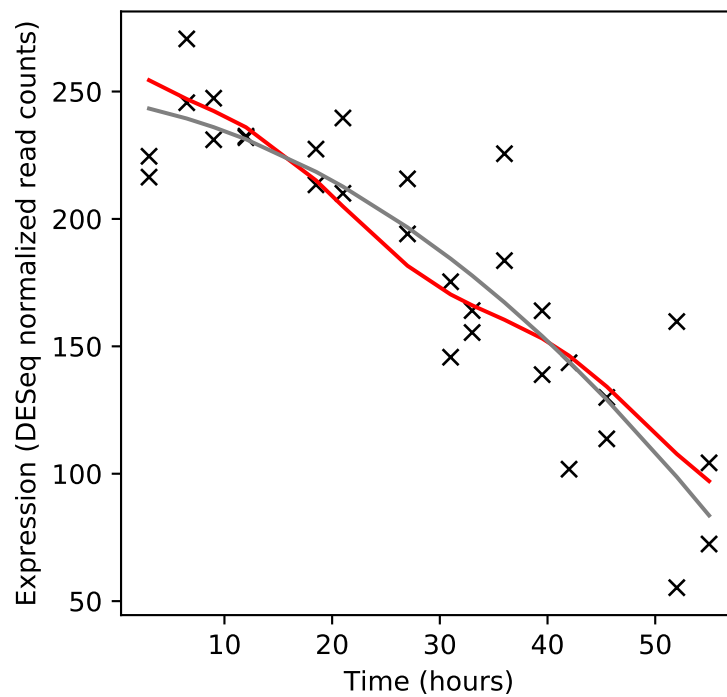
Rv2065/cobH



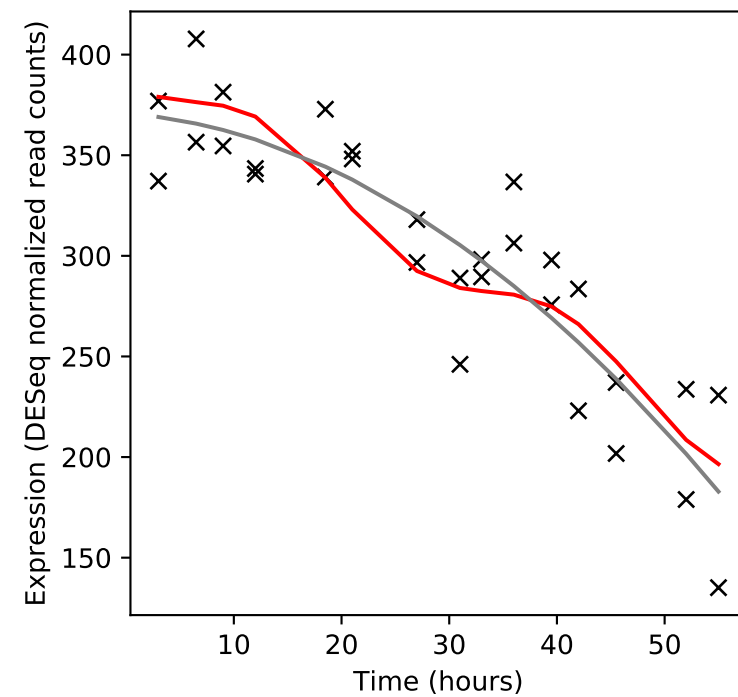
Rv2066/cobI



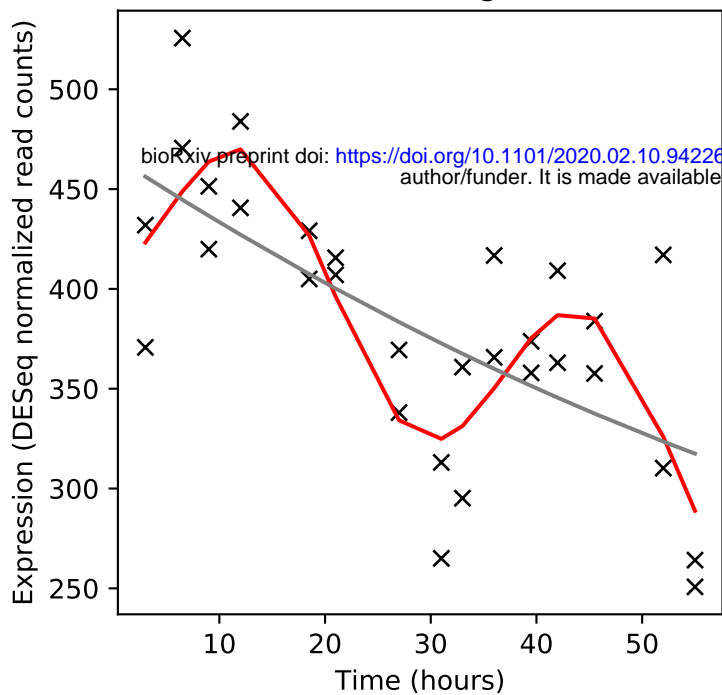
Rv2067c/-



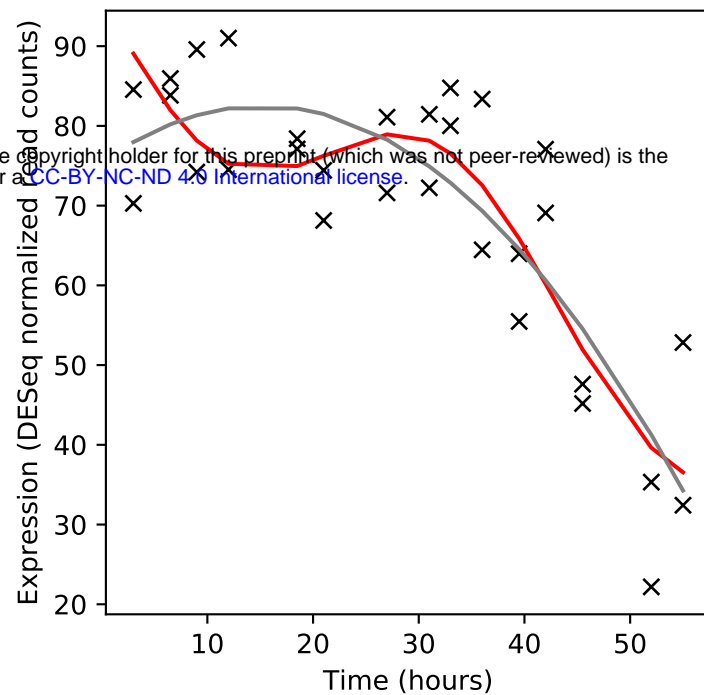
Rv2068c/blaC



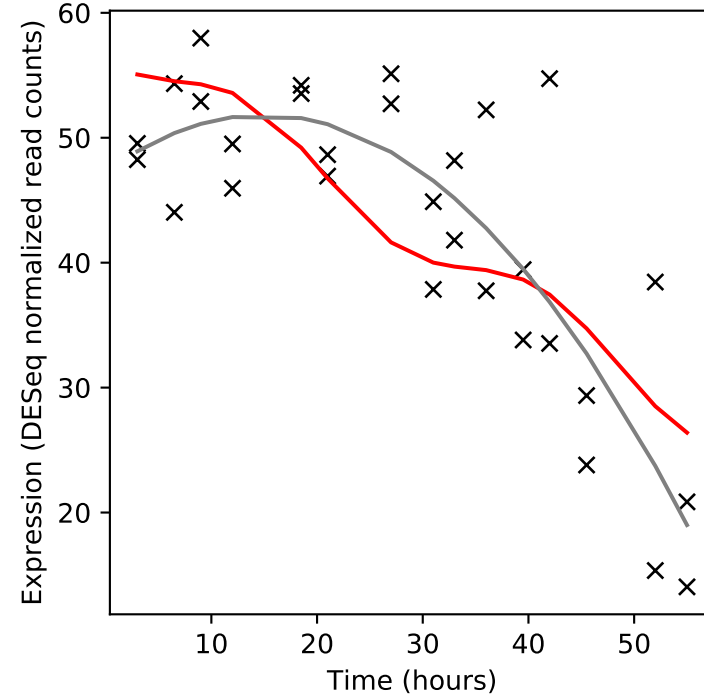
Rv2069/sigC



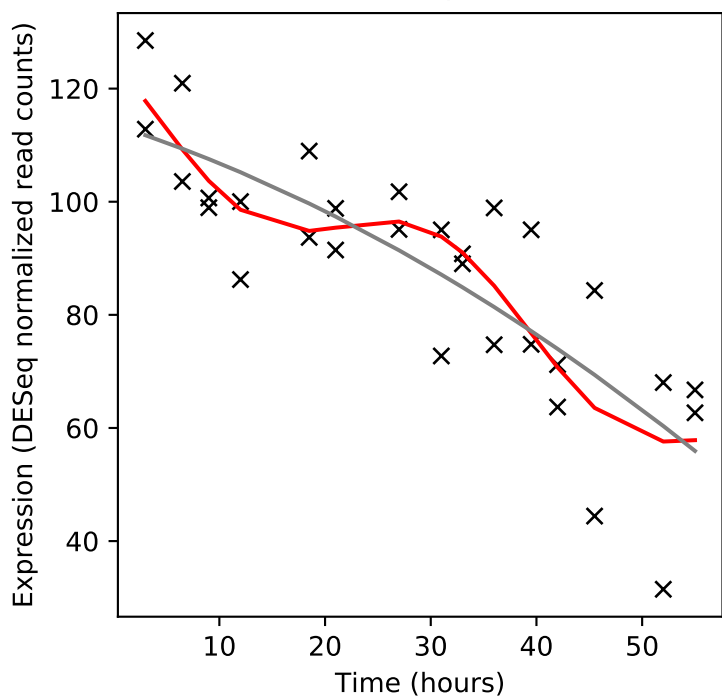
Rv2070c/cobK



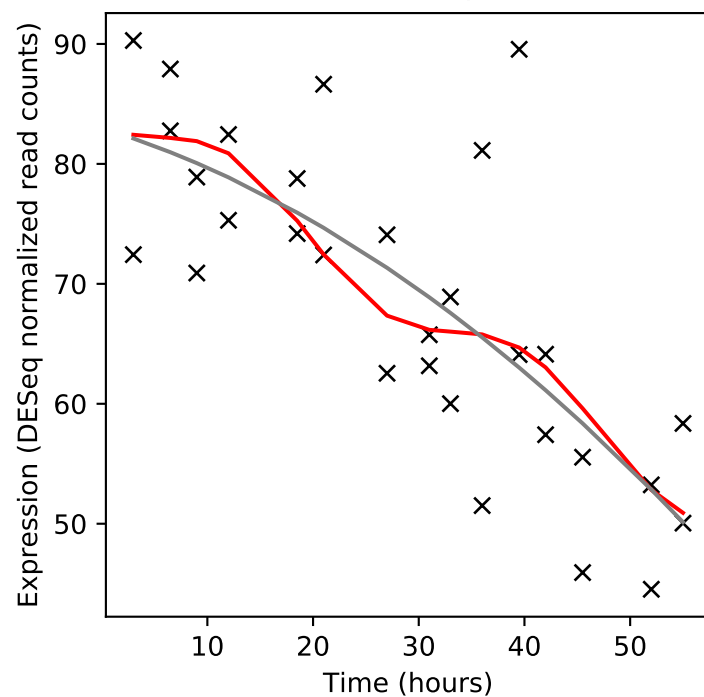
Rv2071c/cobM



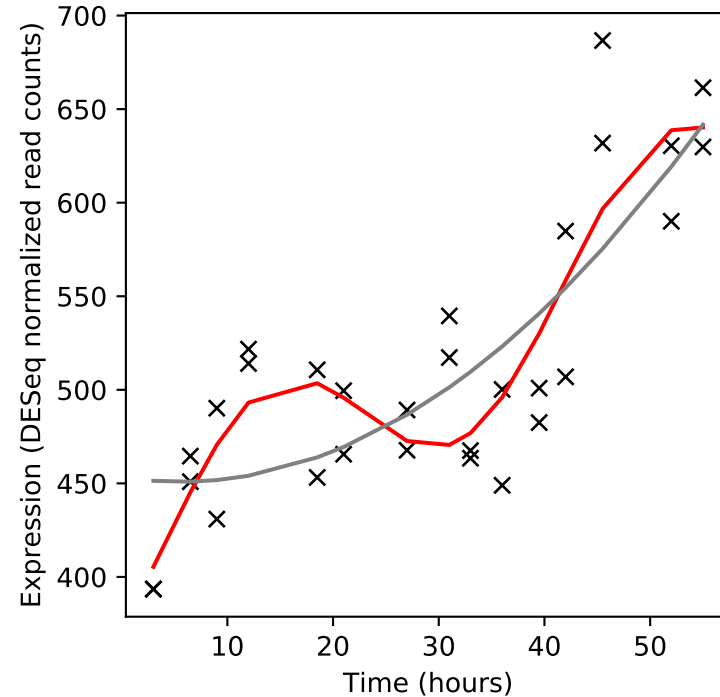
Rv2072c/cobL



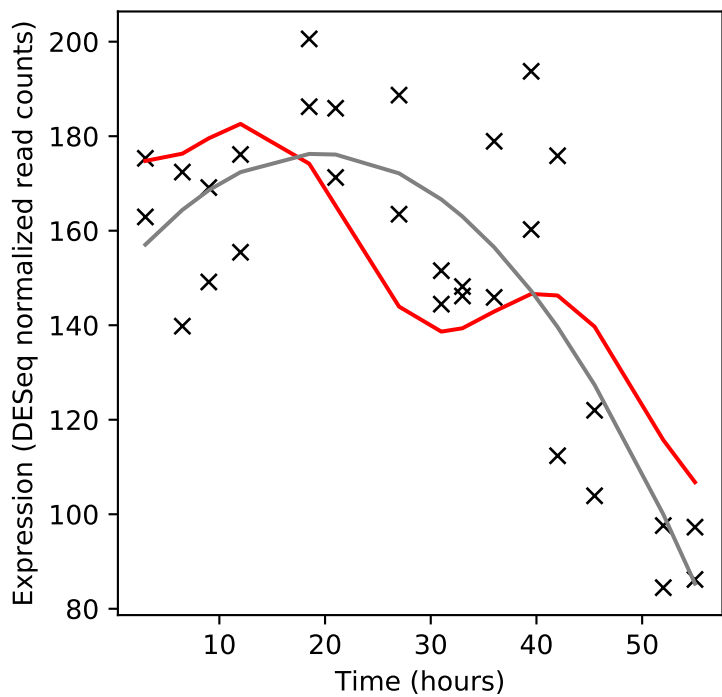
Rv2073c/-



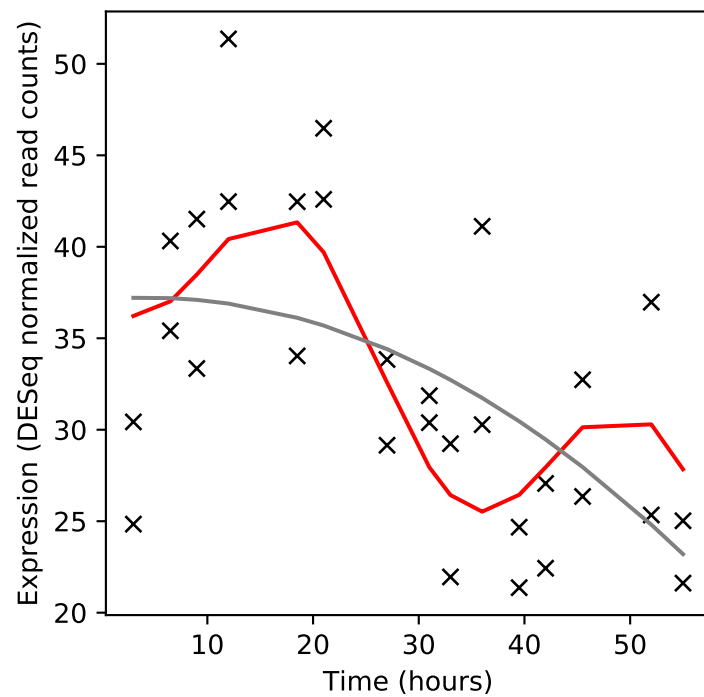
Rv2074/-



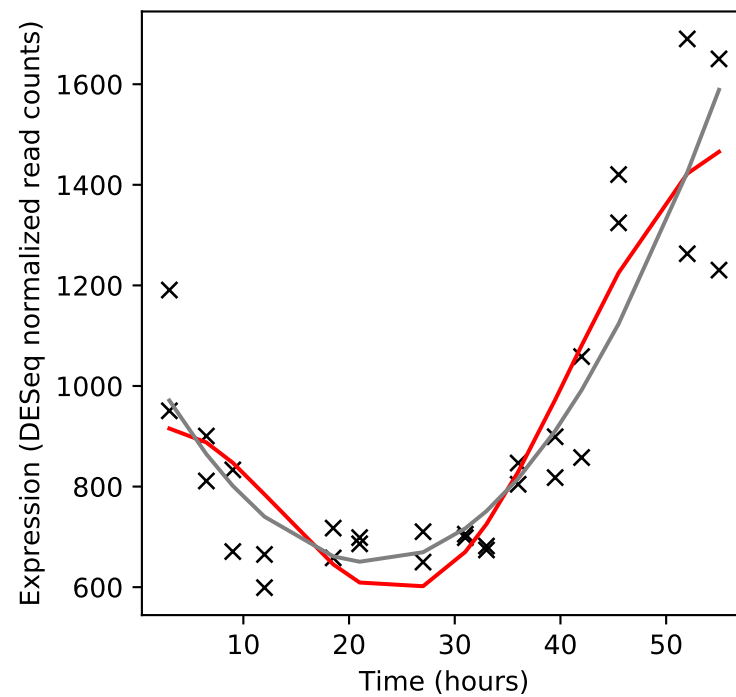
Rv2075c/-



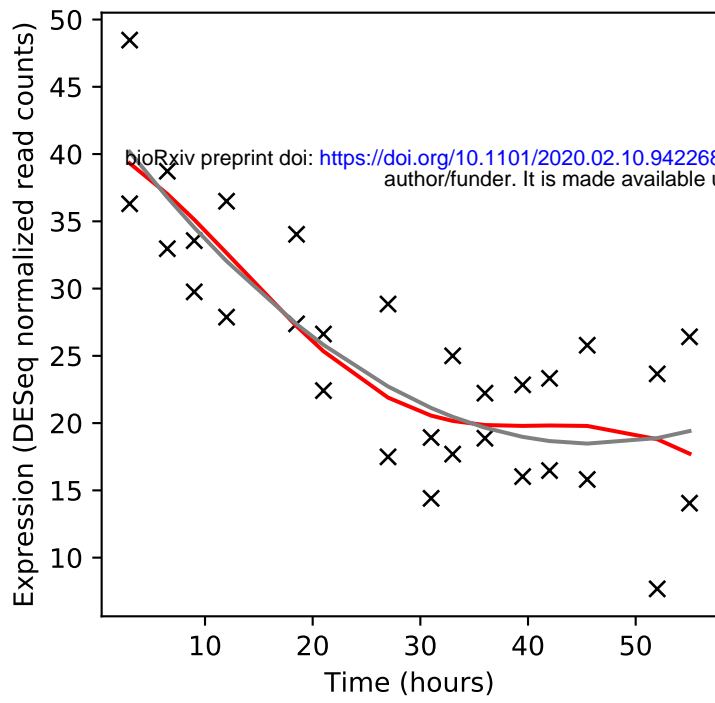
Rv2076c/-



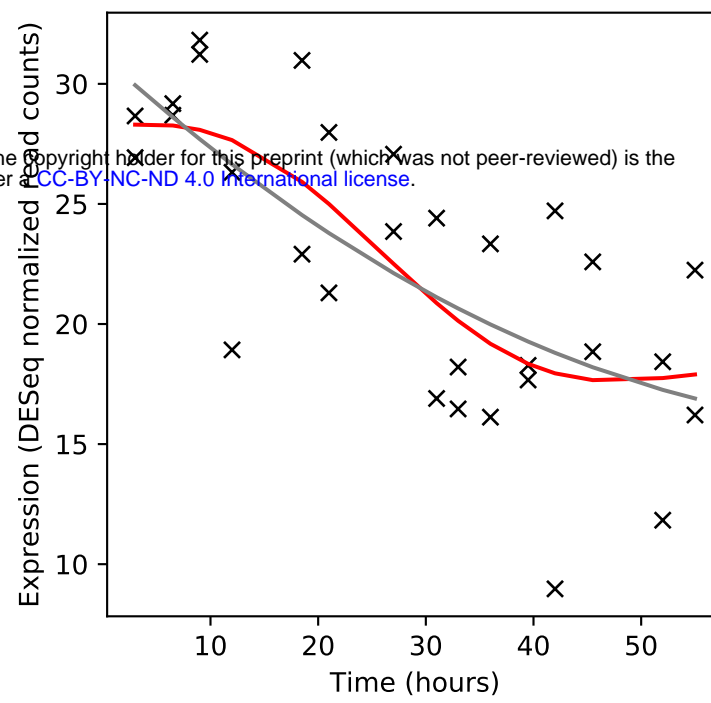
Rv2077c/-



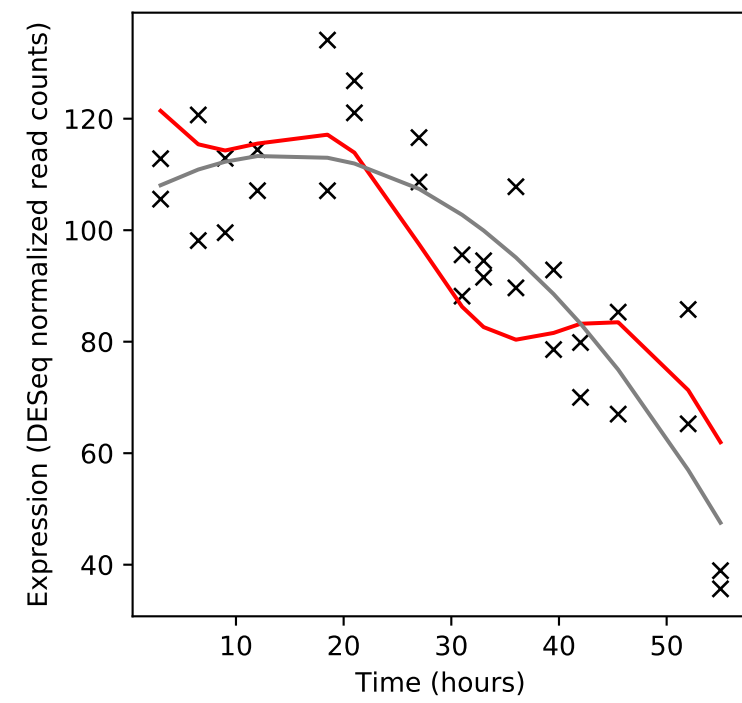
Rv2077A/-



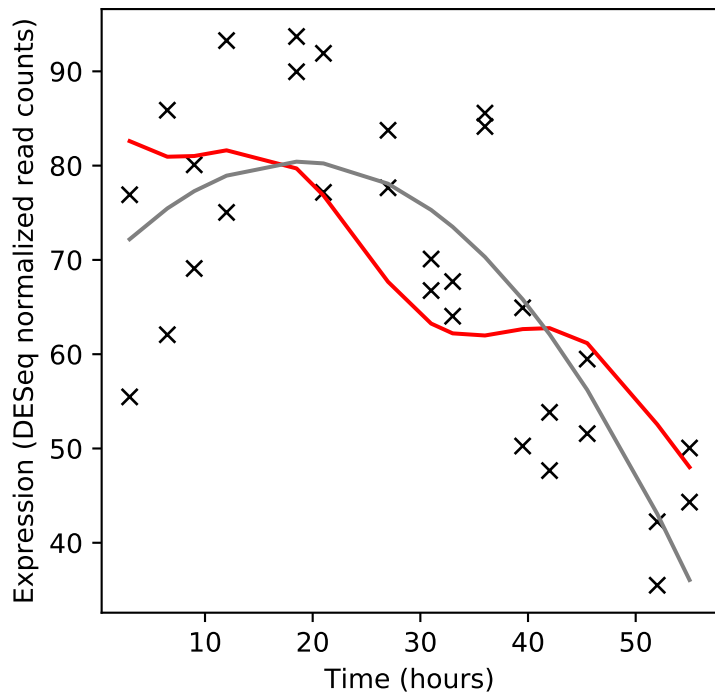
Rv2078/-



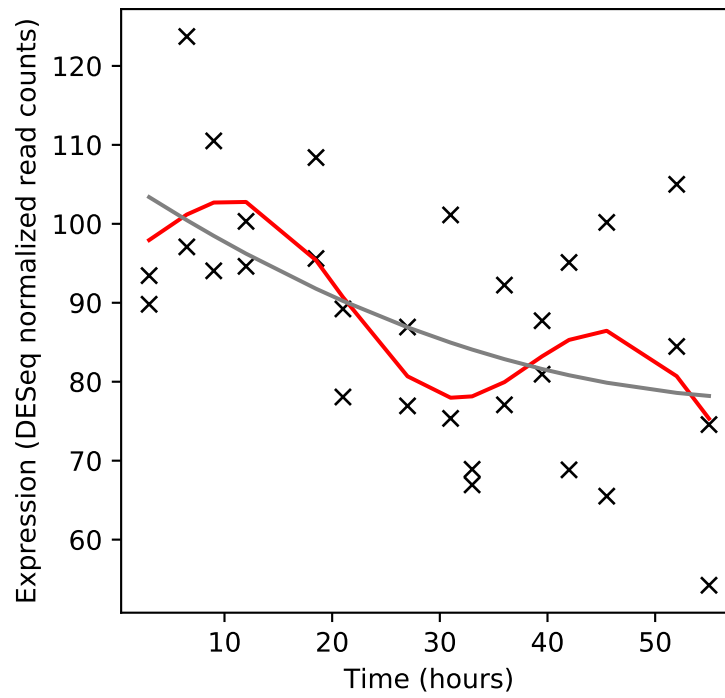
Rv2079/-



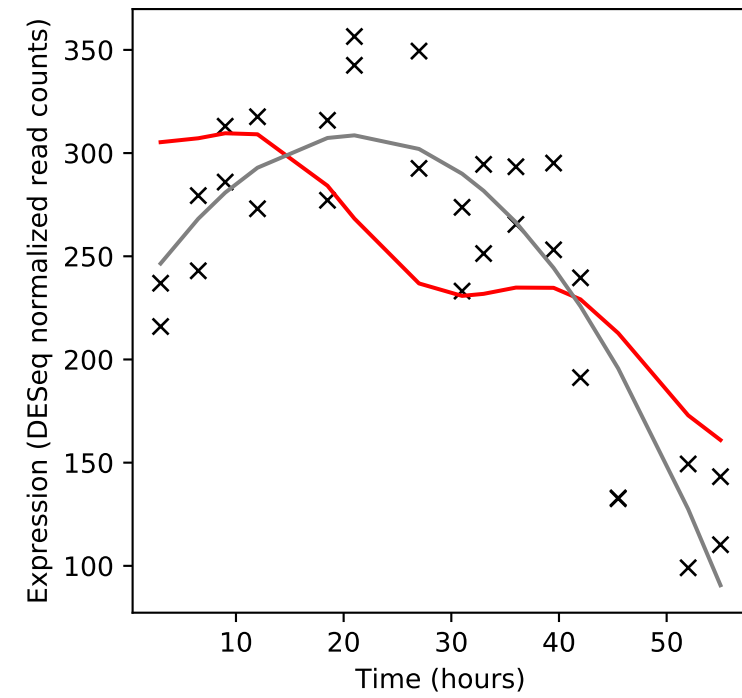
Rv2080/lppJ



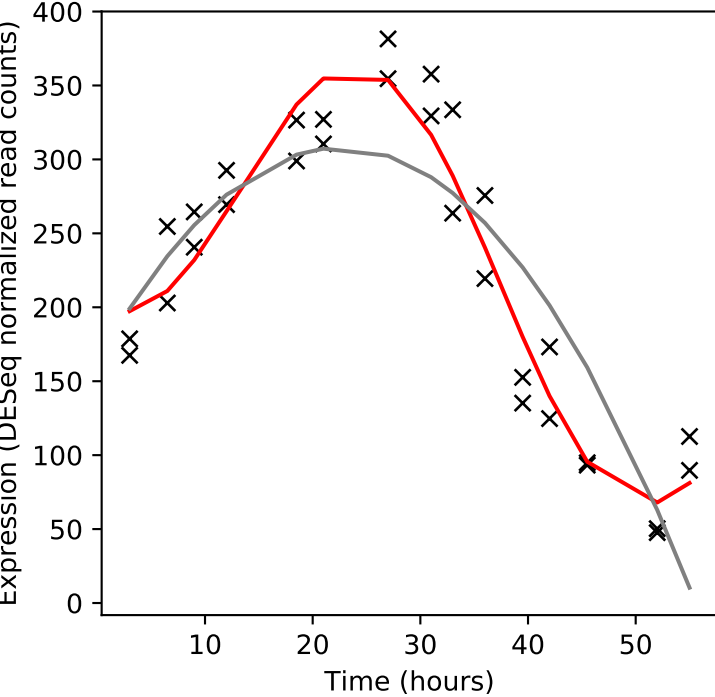
Rv2081c/-



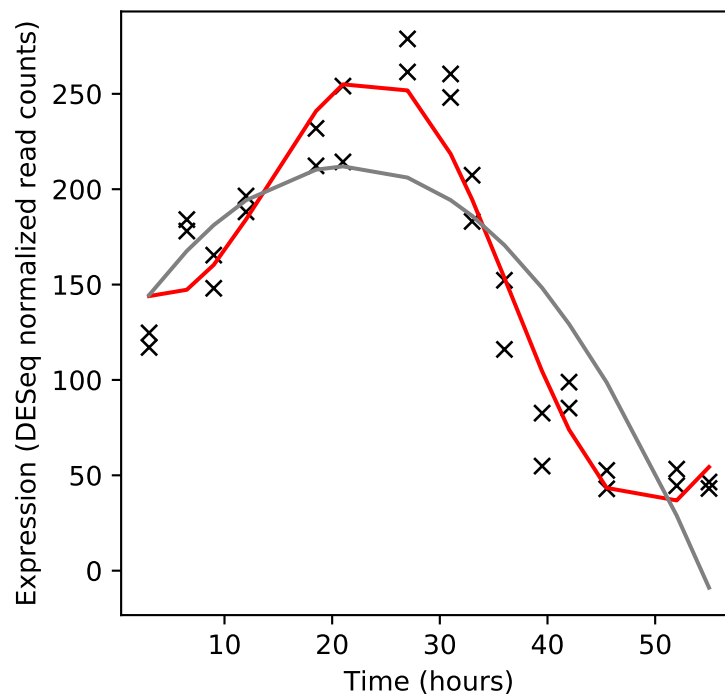
Rv2082/-



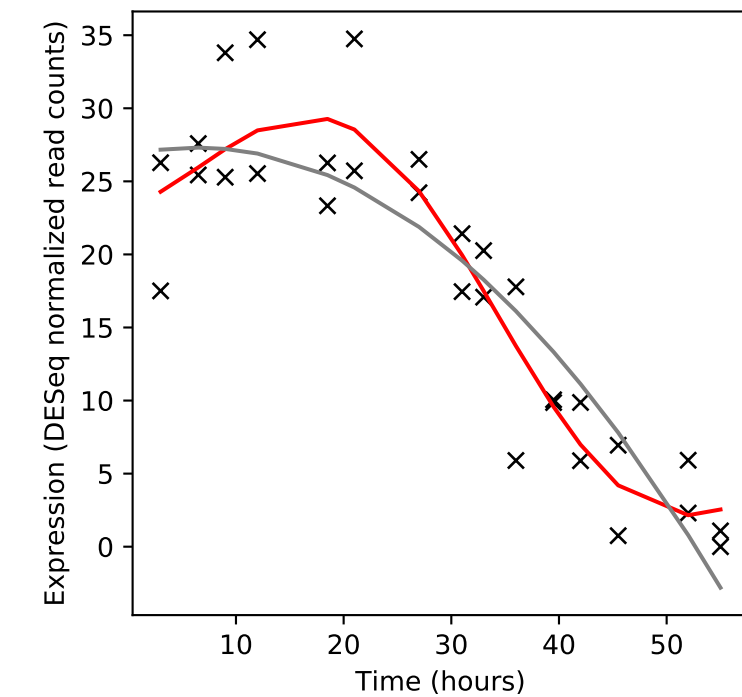
Rv2083/-



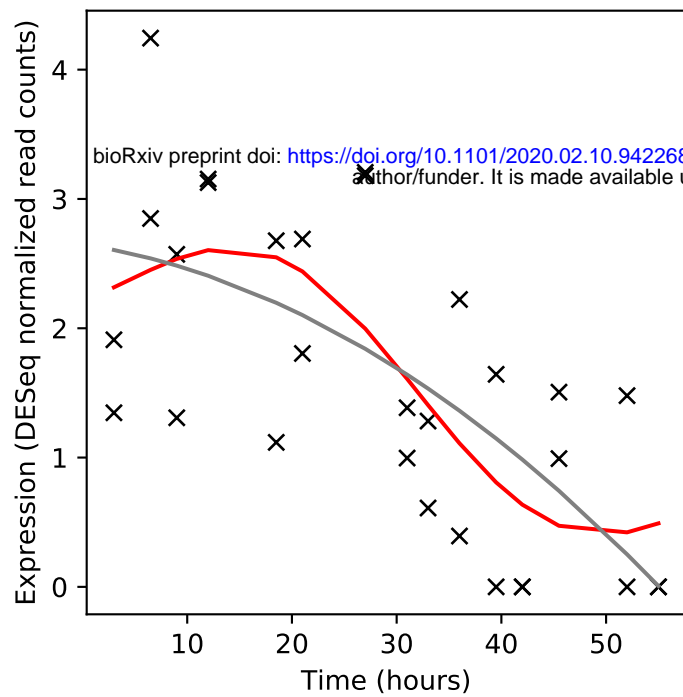
Rv2084/-



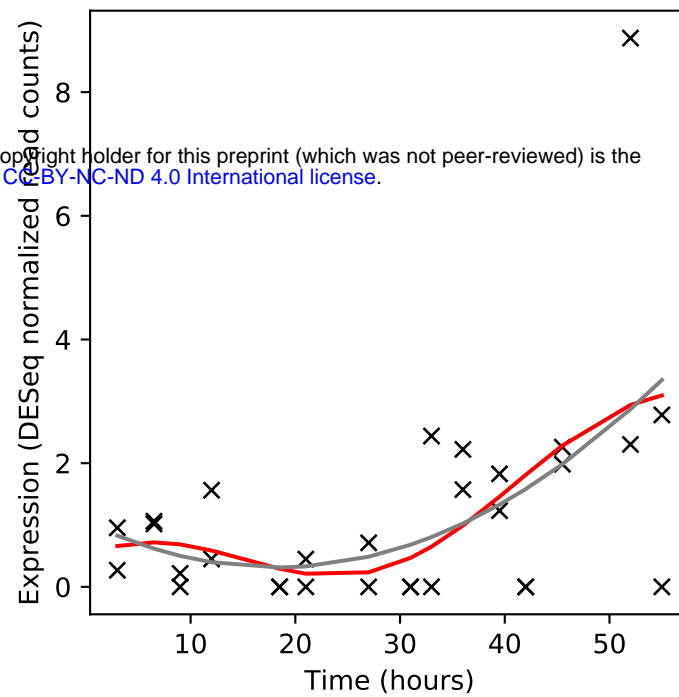
Rv2085/-



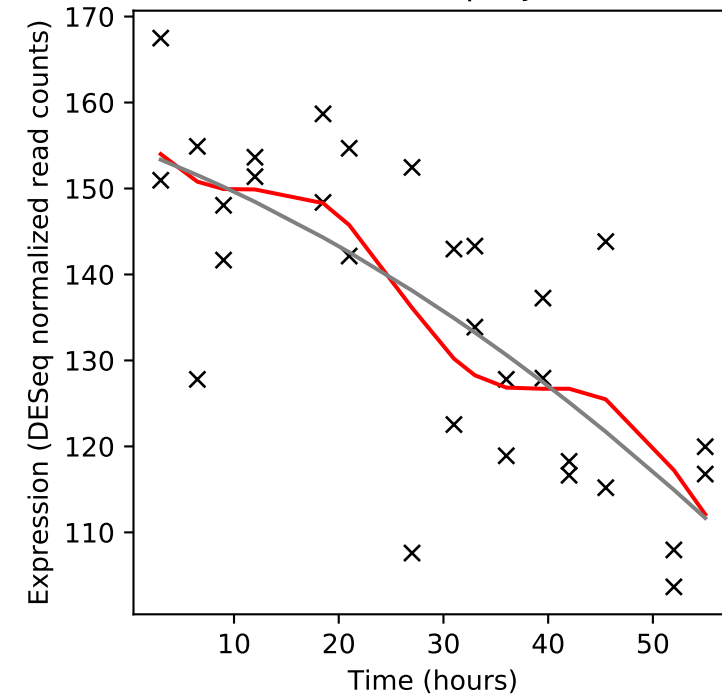
Rv2086/-



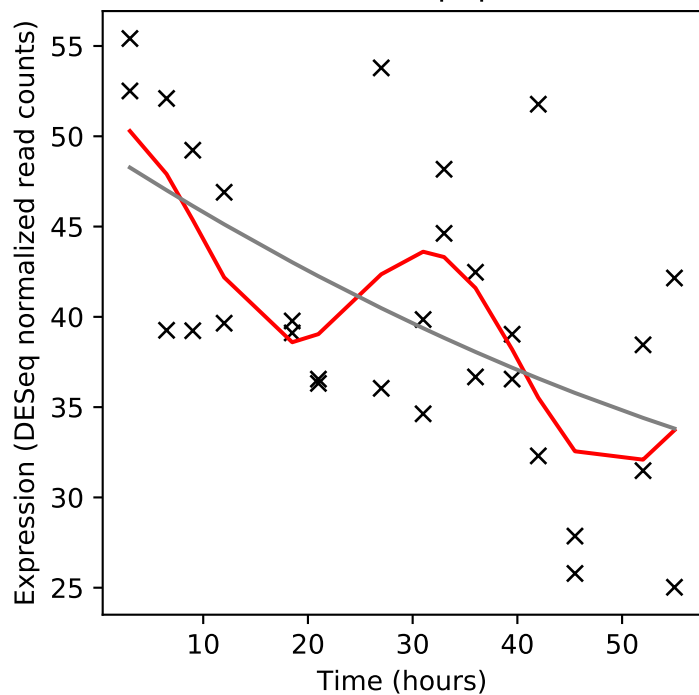
Rv2087/-



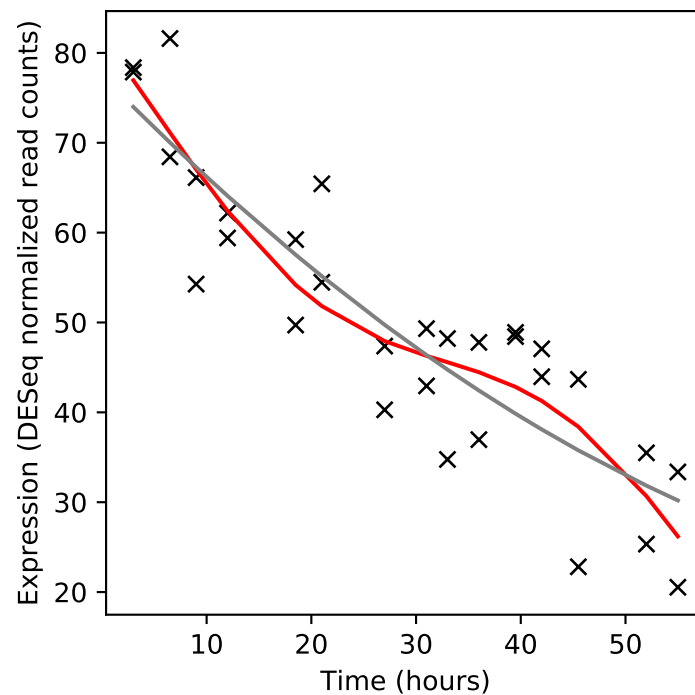
Rv2088/pknJ



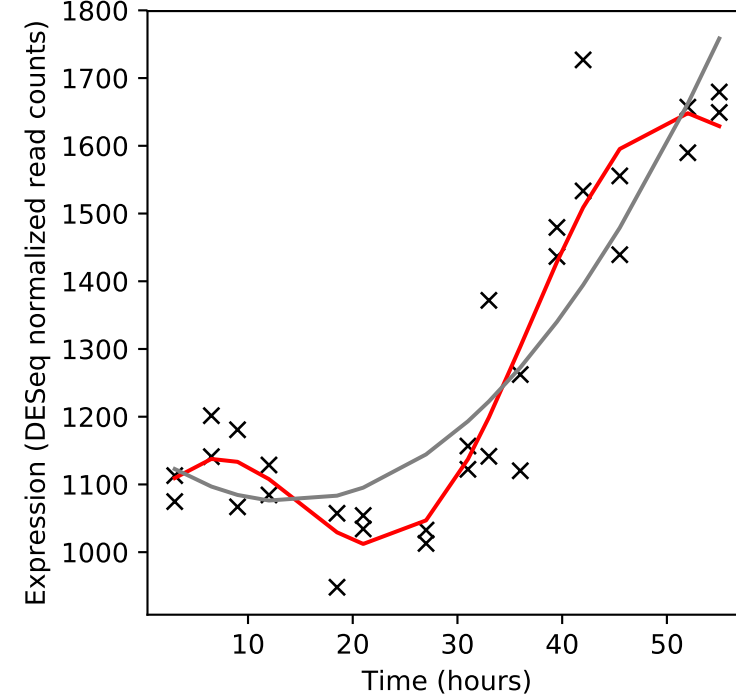
Rv2089c/pepE



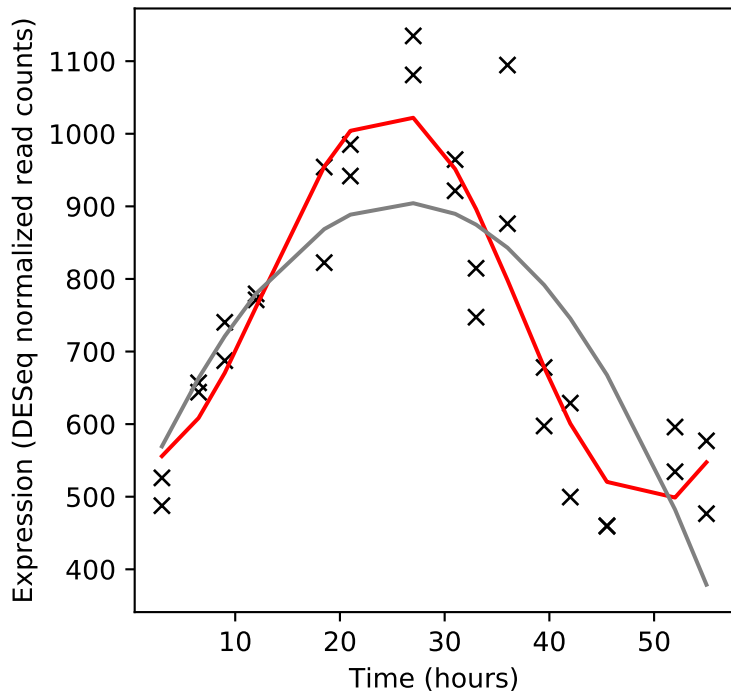
Rv2090/-



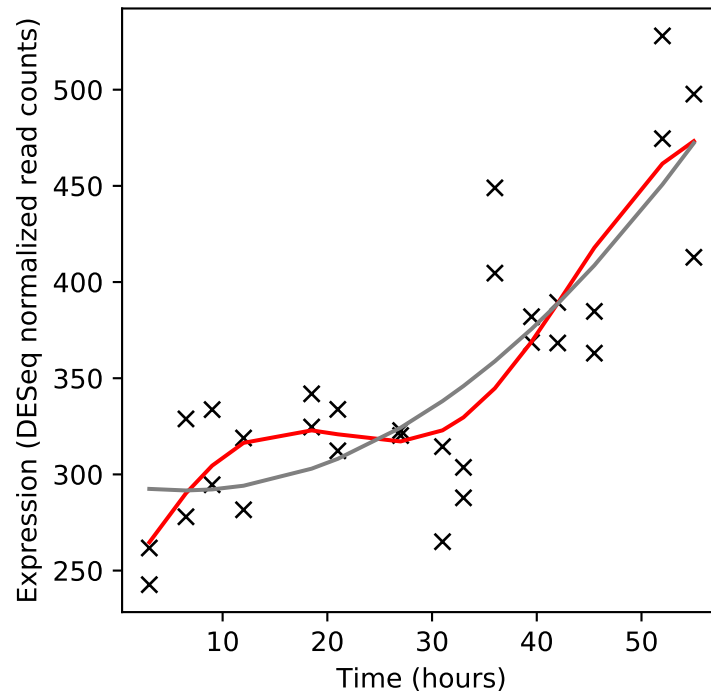
Rv2091c/-



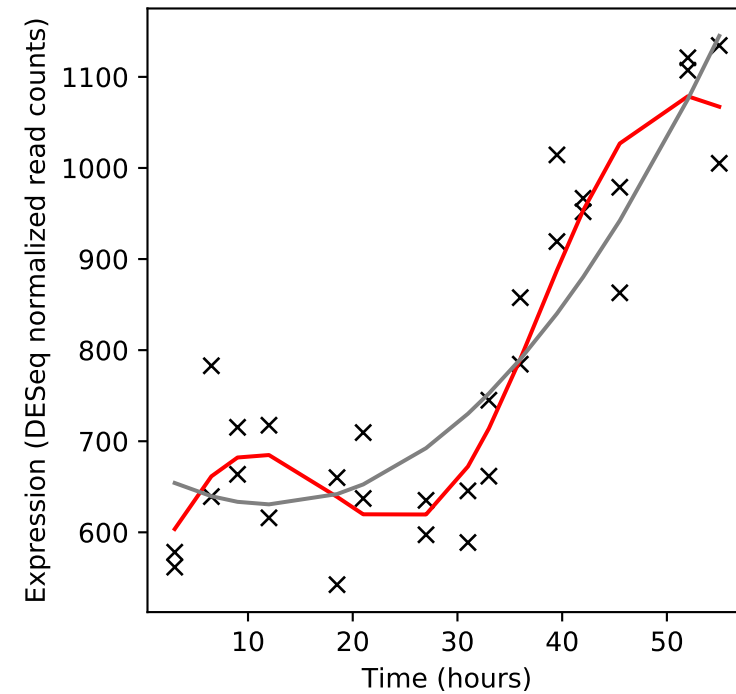
Rv2092c/helY



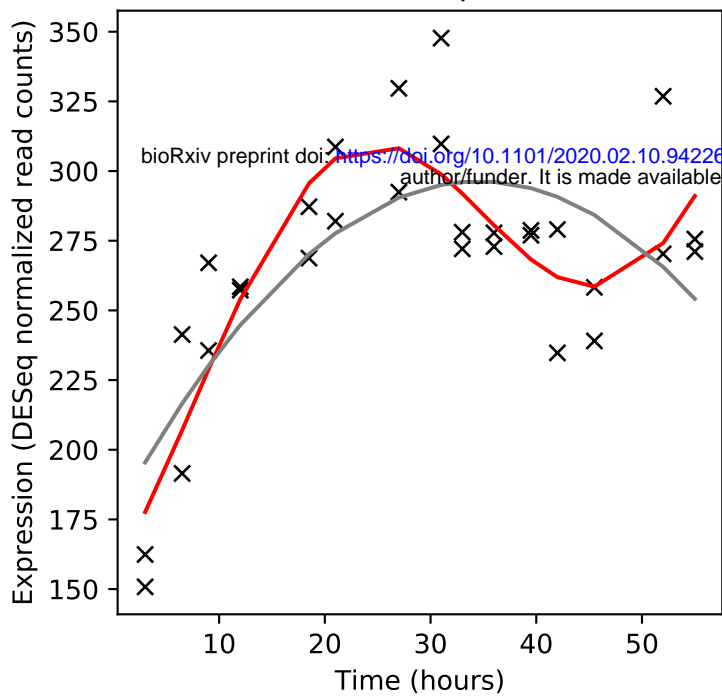
Rv2093c/tatC



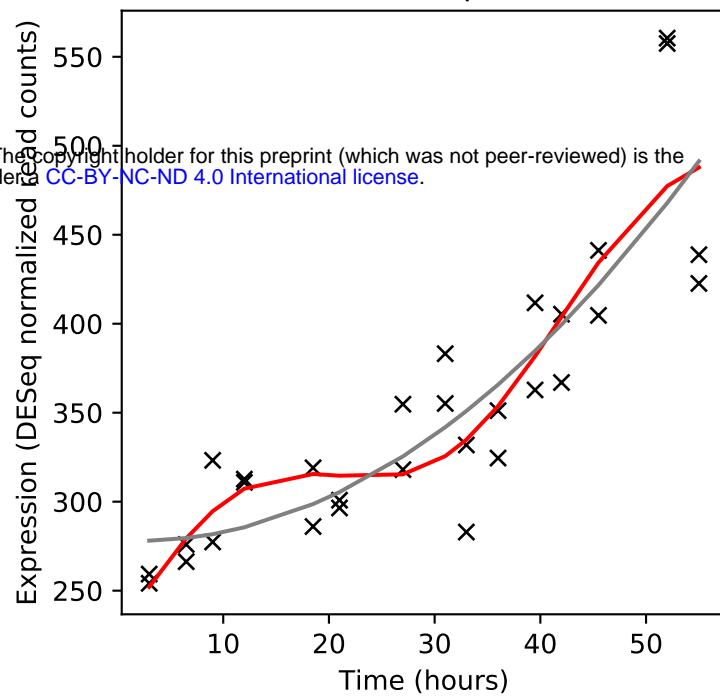
Rv2094c/tatA



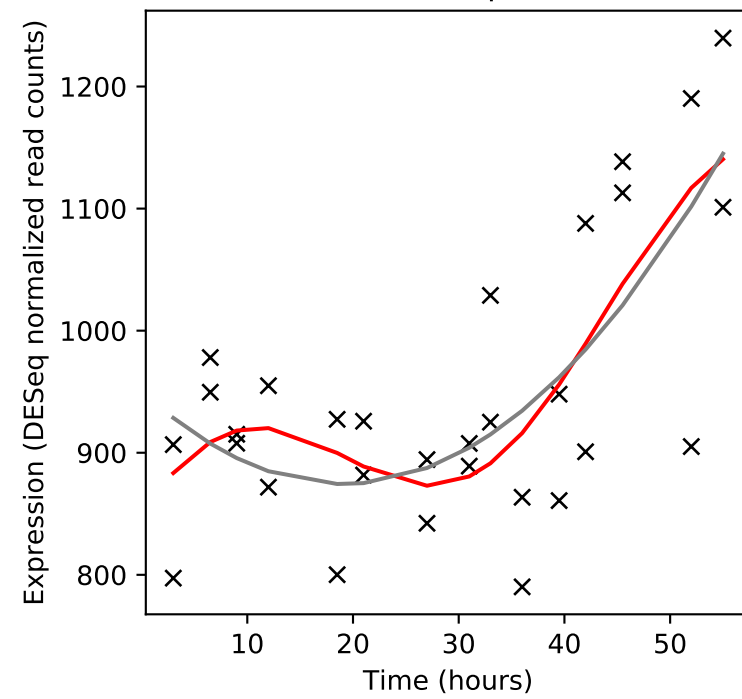
Rv2095c/pafC



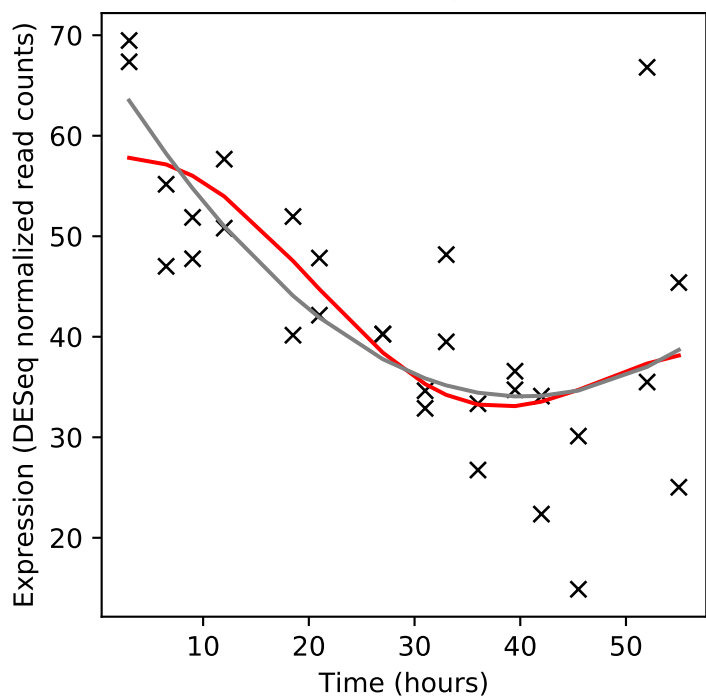
Rv2096c/pafB



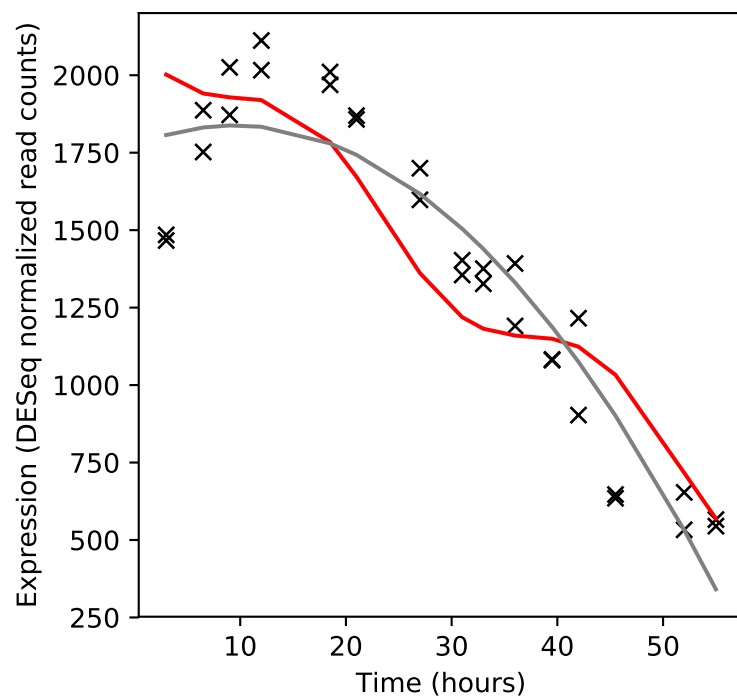
Rv2097c/pafA



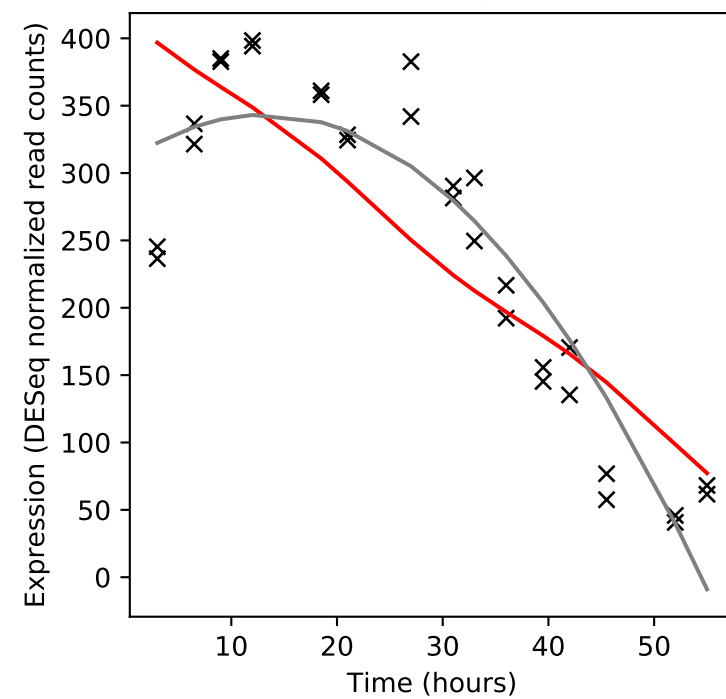
Rv2100/-



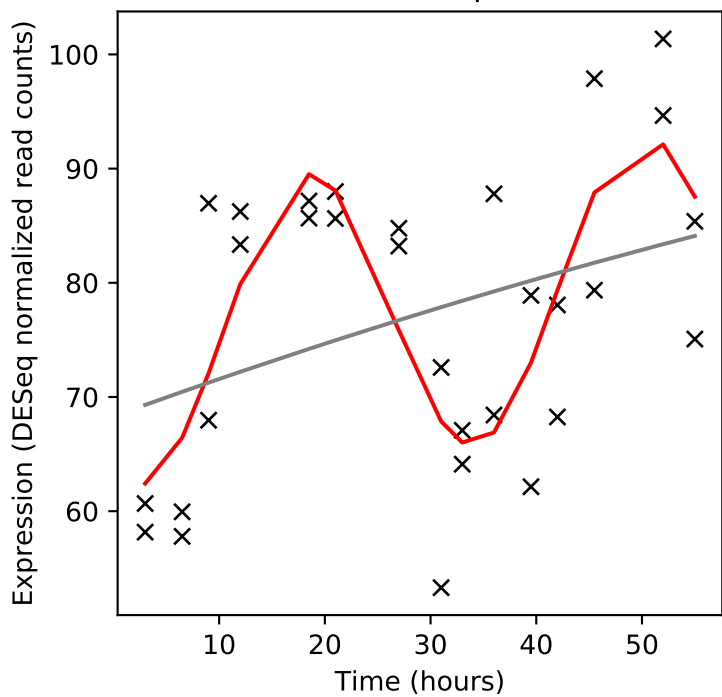
Rv2101/helZ



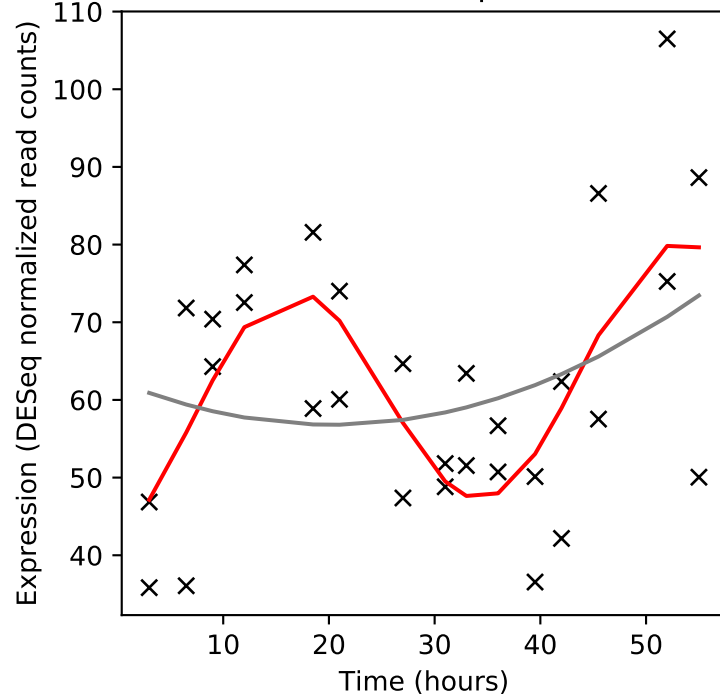
Rv2102/-



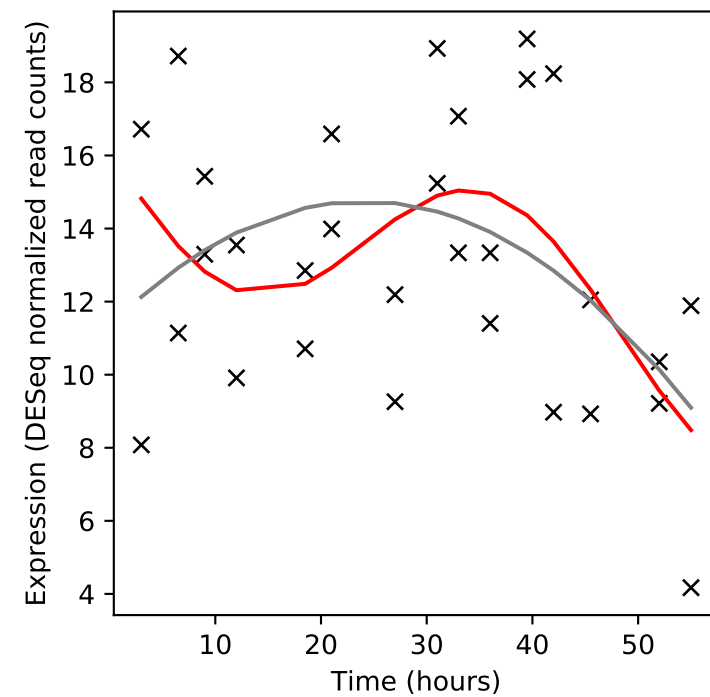
Rv2103c/vapC37



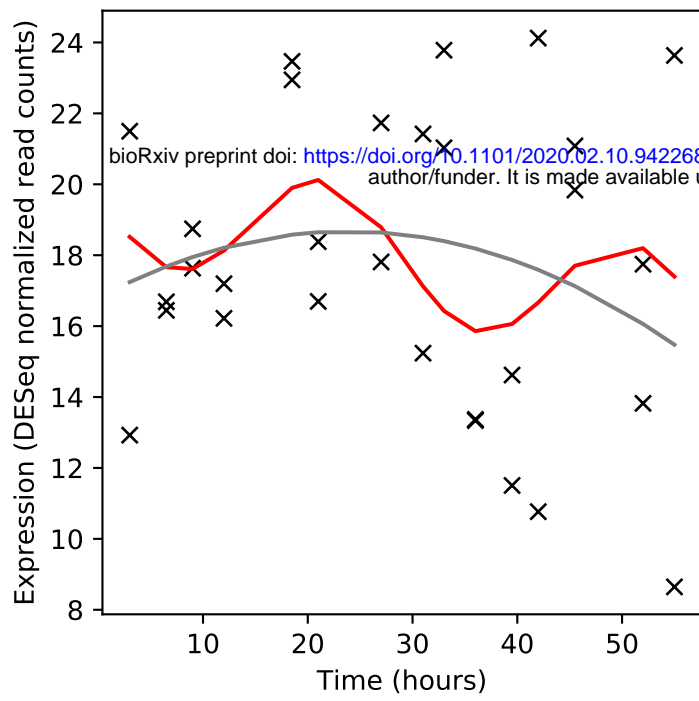
Rv2104c/vapB37



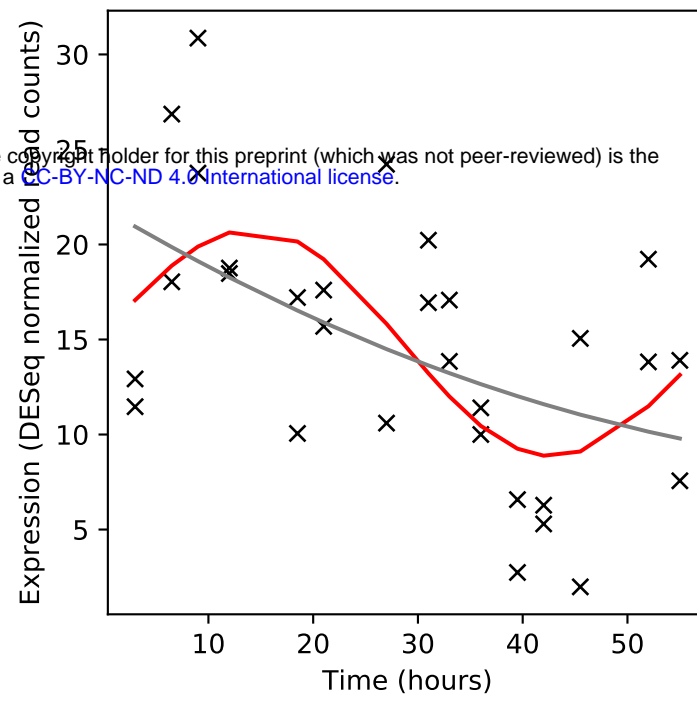
Rv2105/-



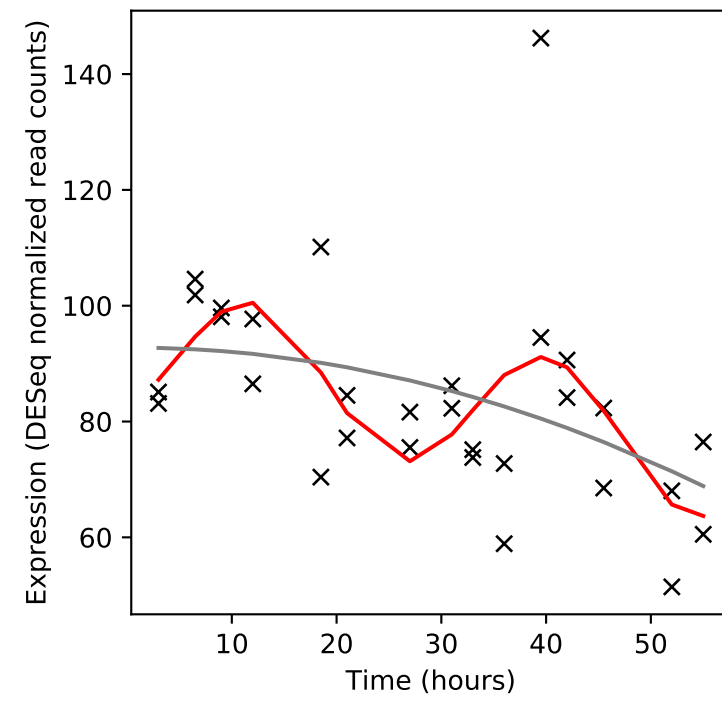
Rv2106/-



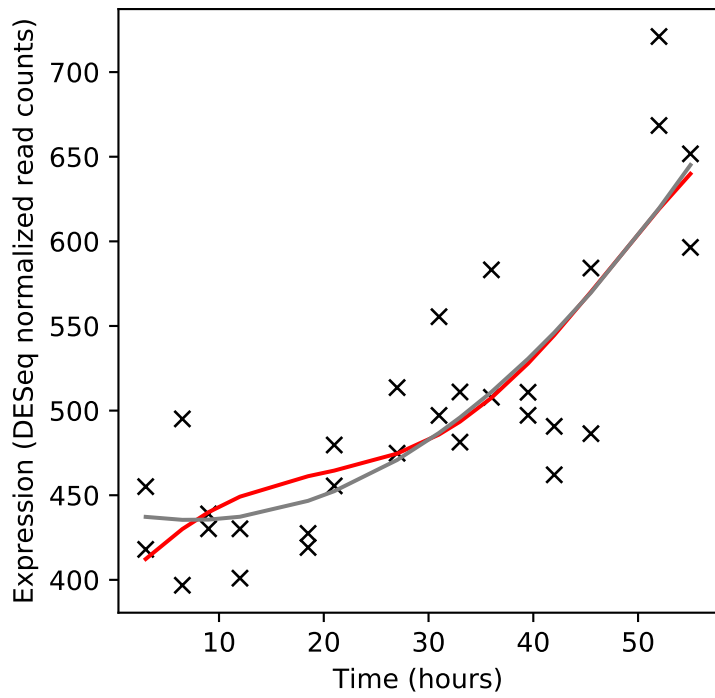
Rv2107/PE22



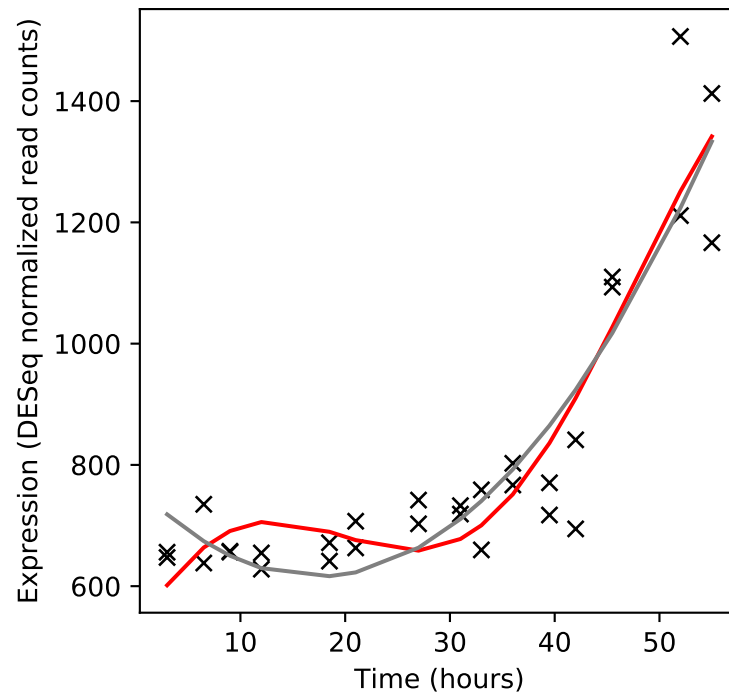
Rv2108/PPE36



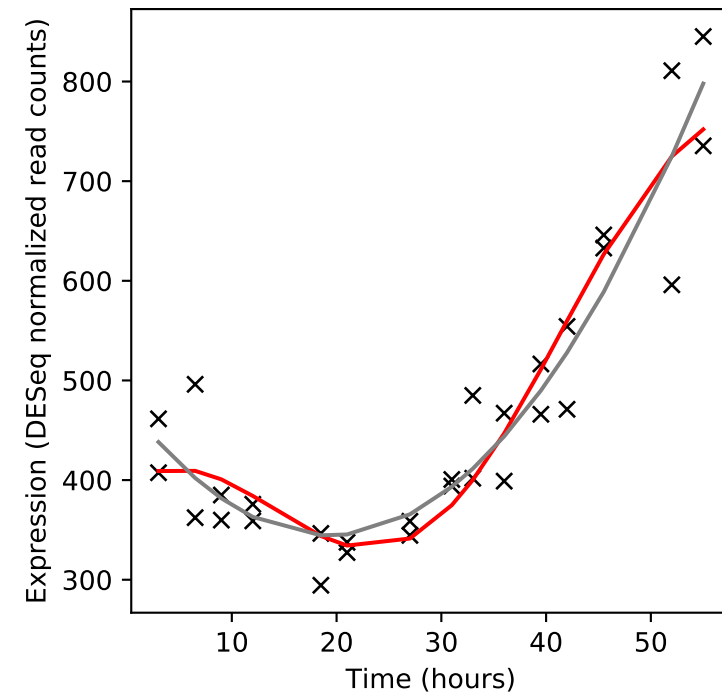
Rv2109c/prcA



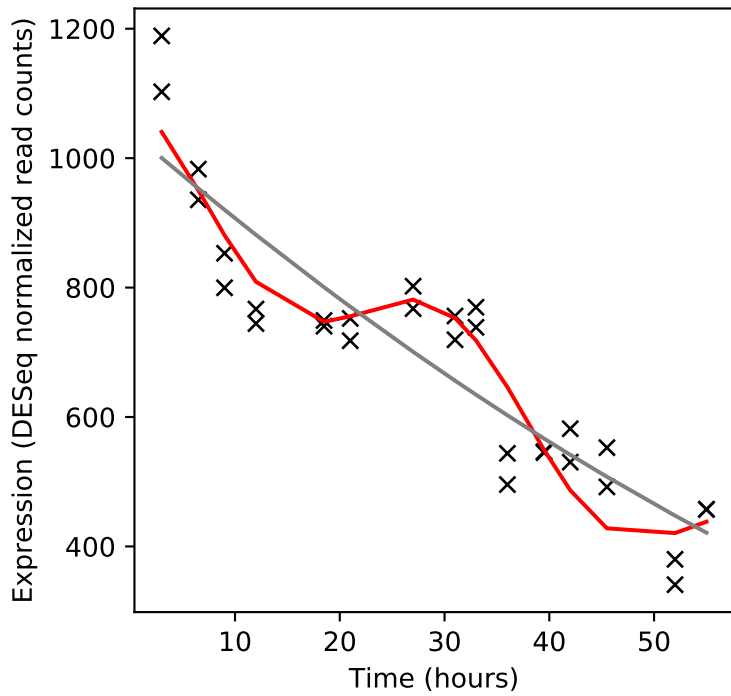
Rv2110c/prcB



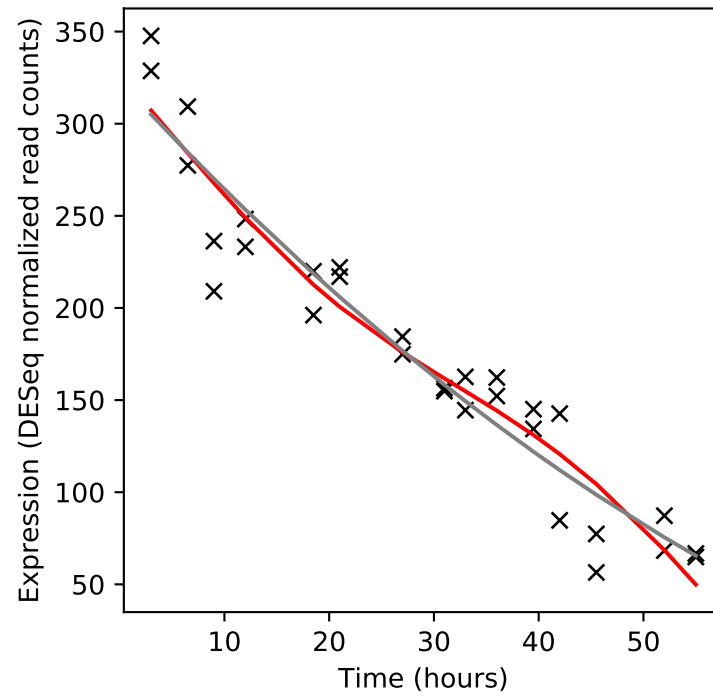
Rv2111c/pup



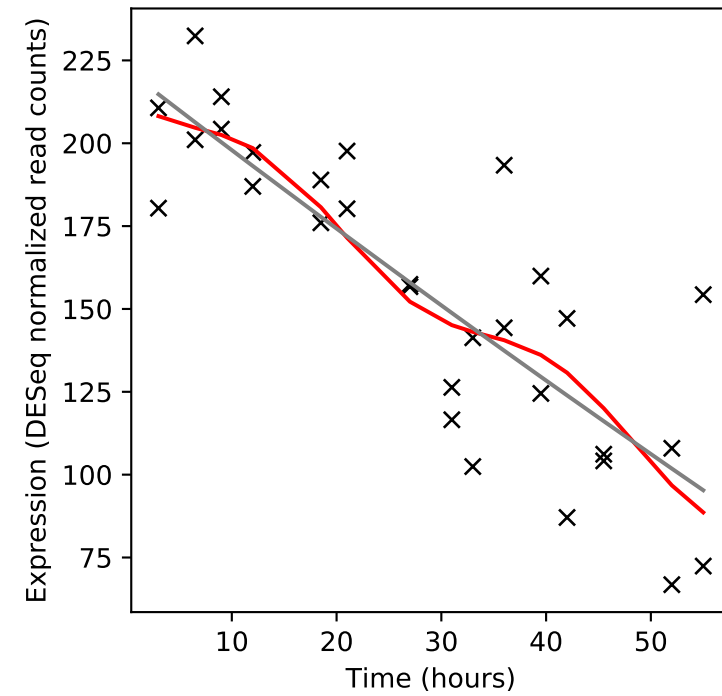
Rv2112c/dop



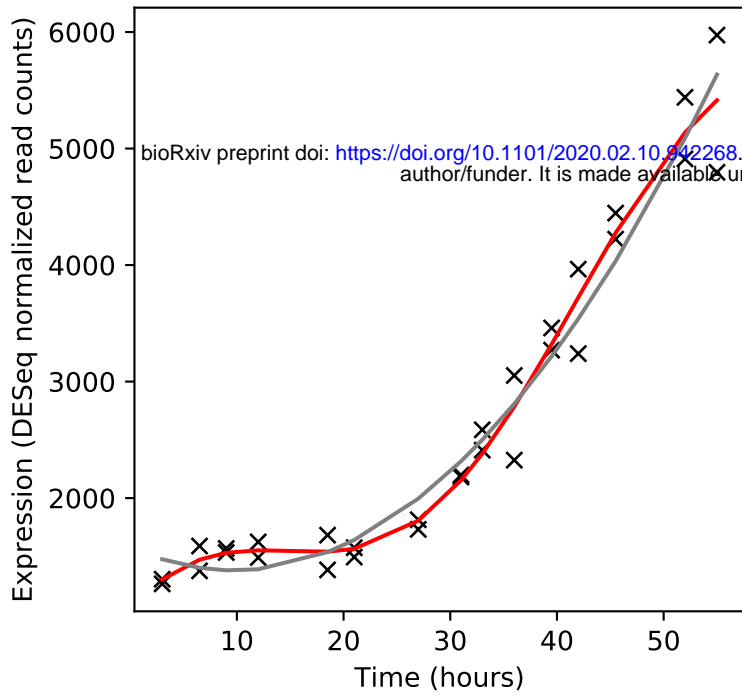
Rv2113/-



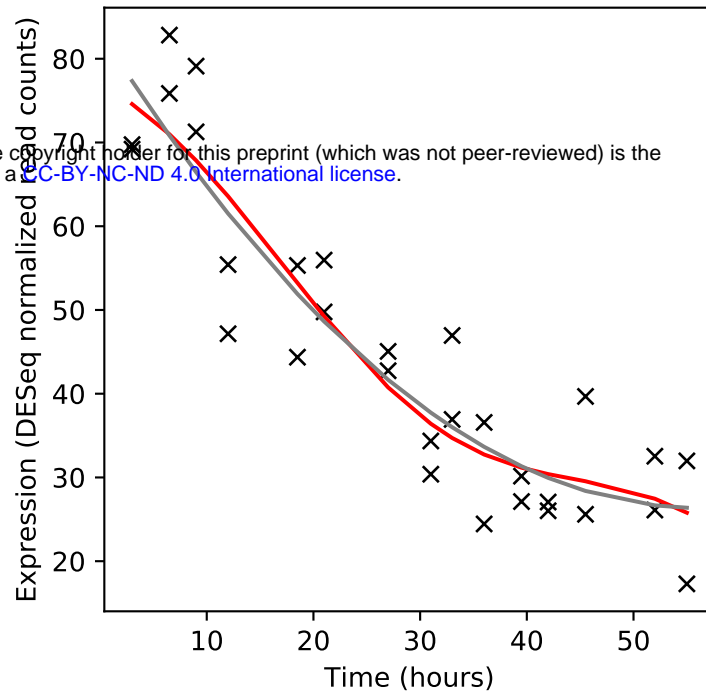
Rv2114/-



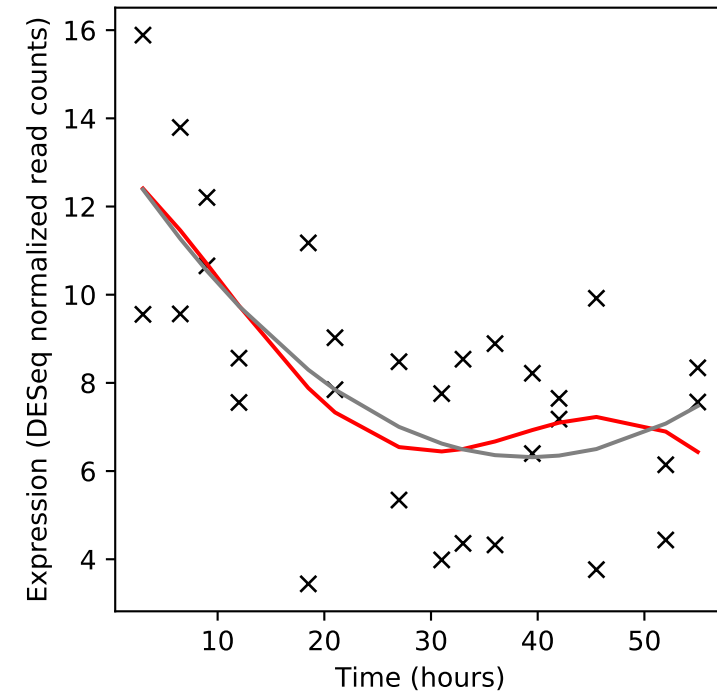
Rv2115c/mpa



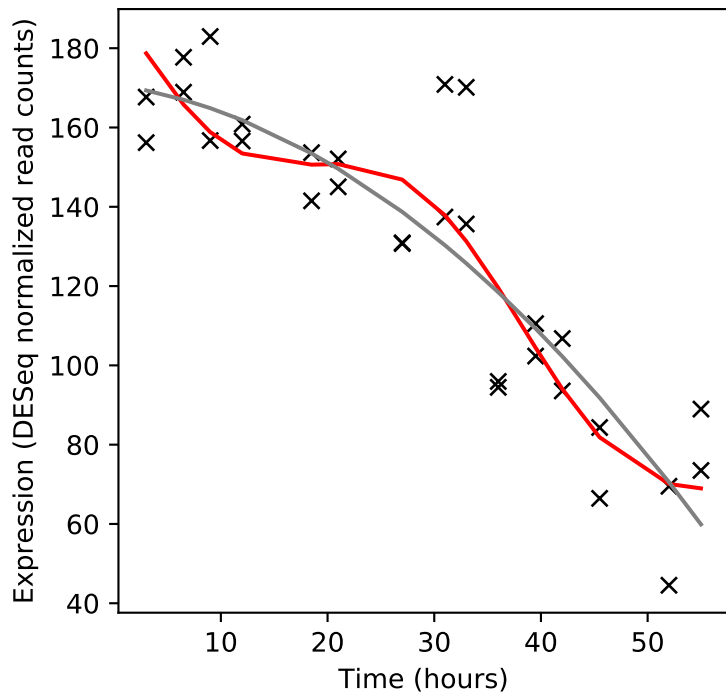
Rv2116/lppK



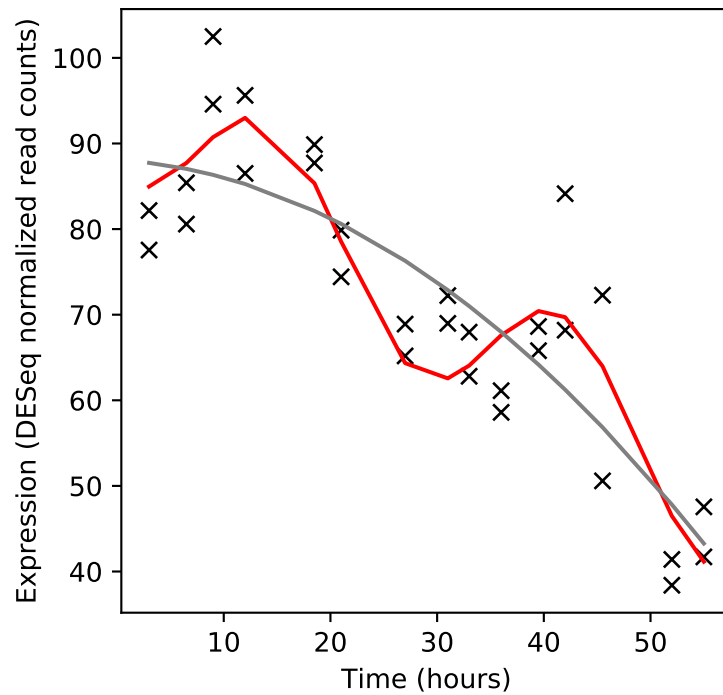
Rv2117/-



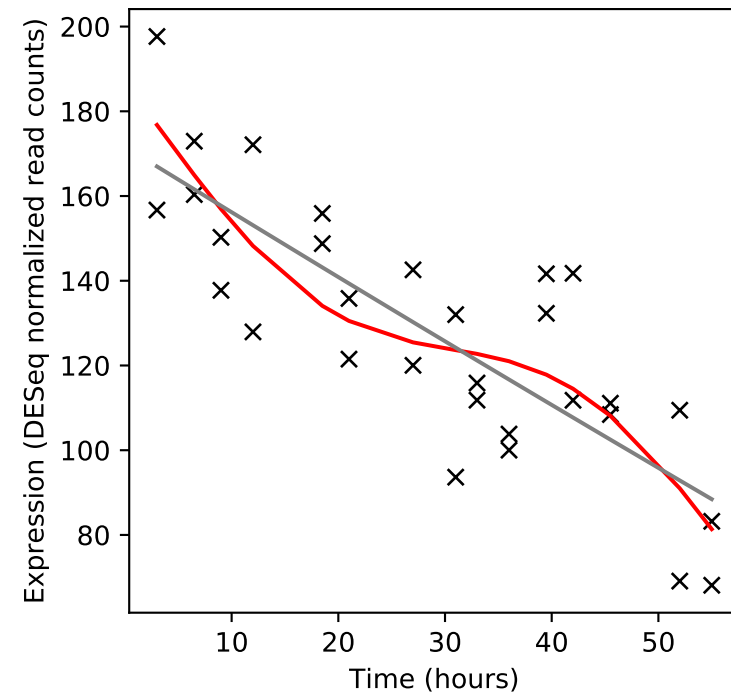
Rv2118c/-



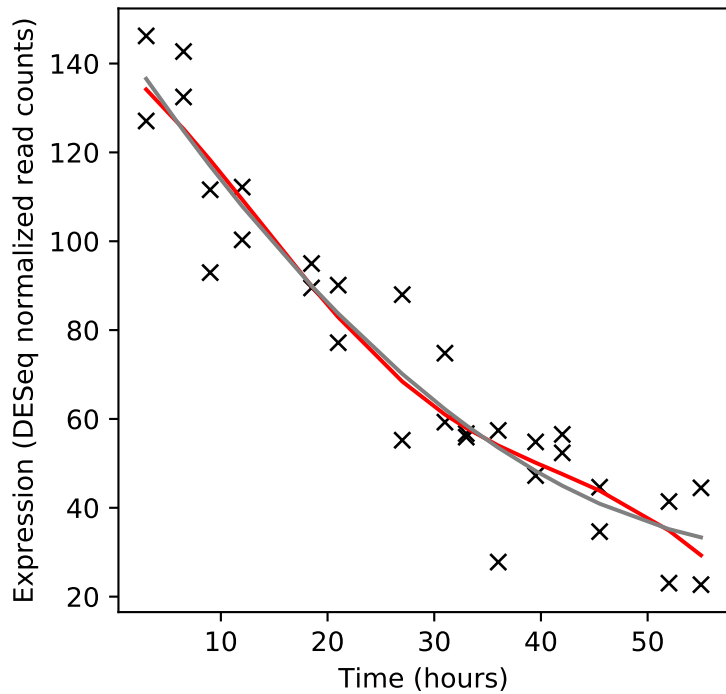
Rv2119/-



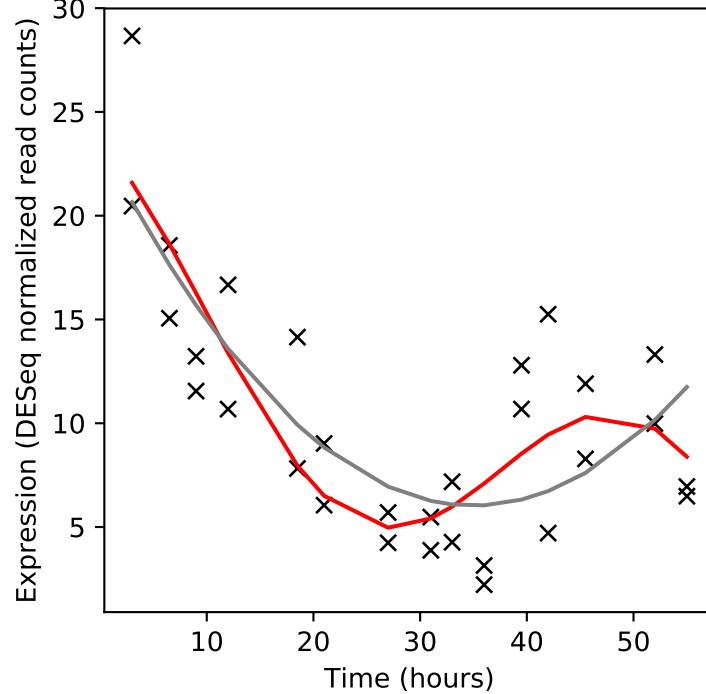
Rv2120c/-



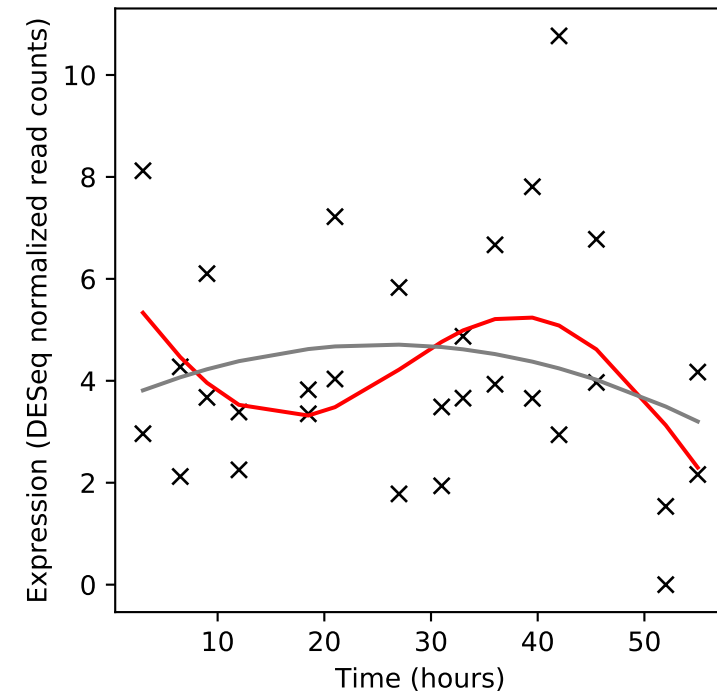
Rv2121c/hisG



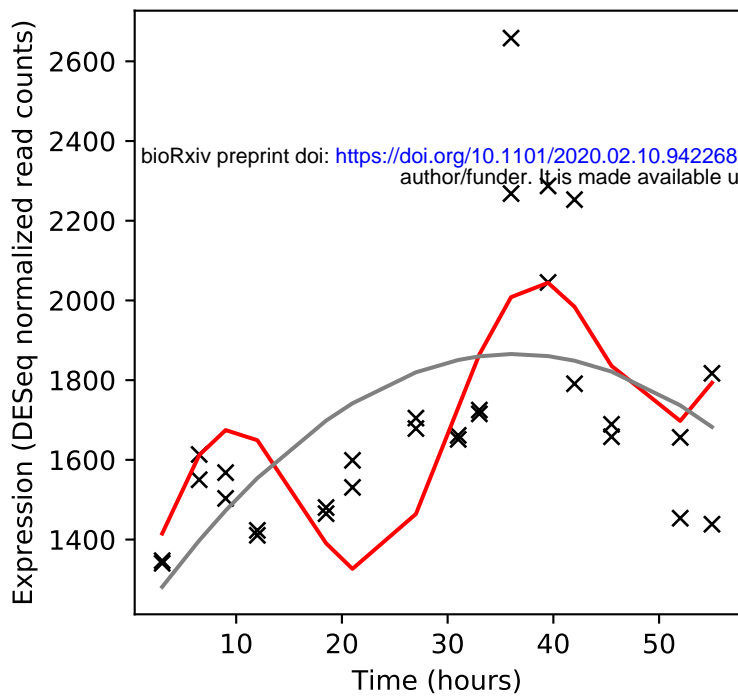
Rv2122c/hisE



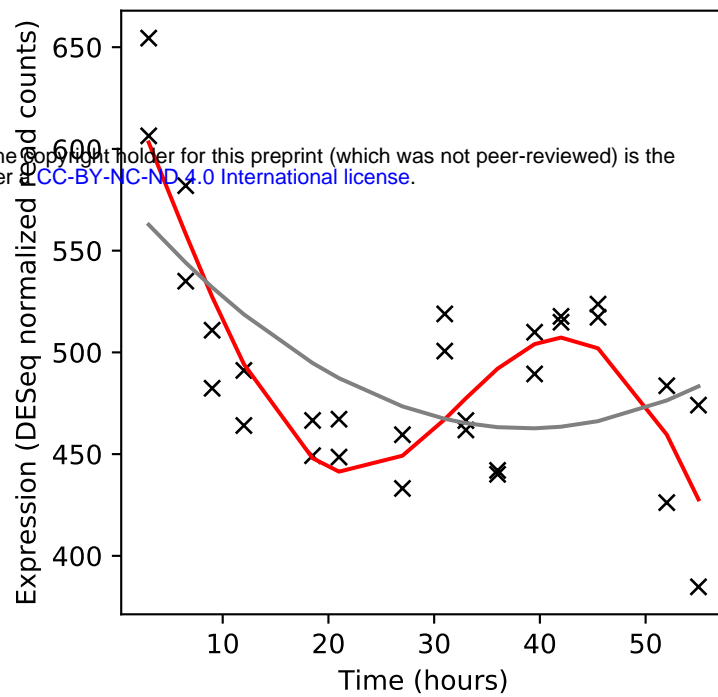
Rv2123/PPE37



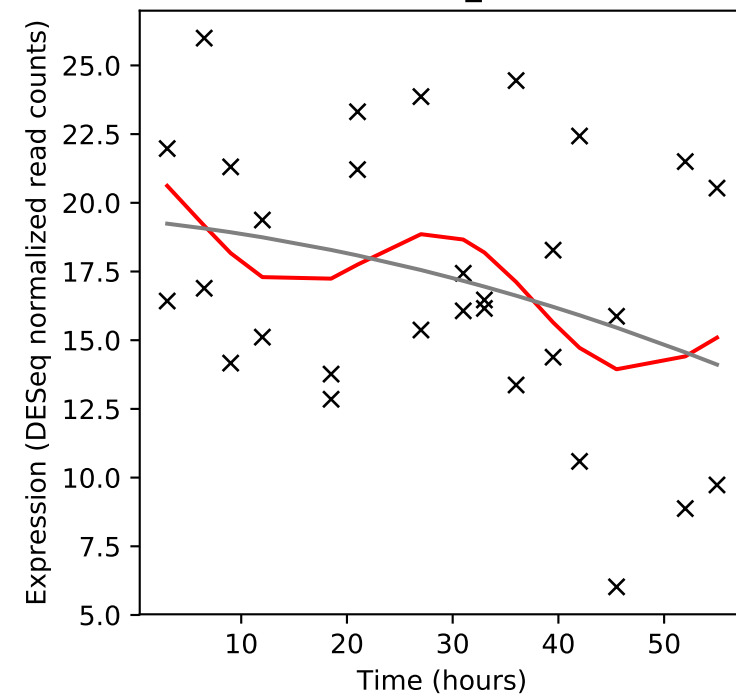
Rv2124c/methH



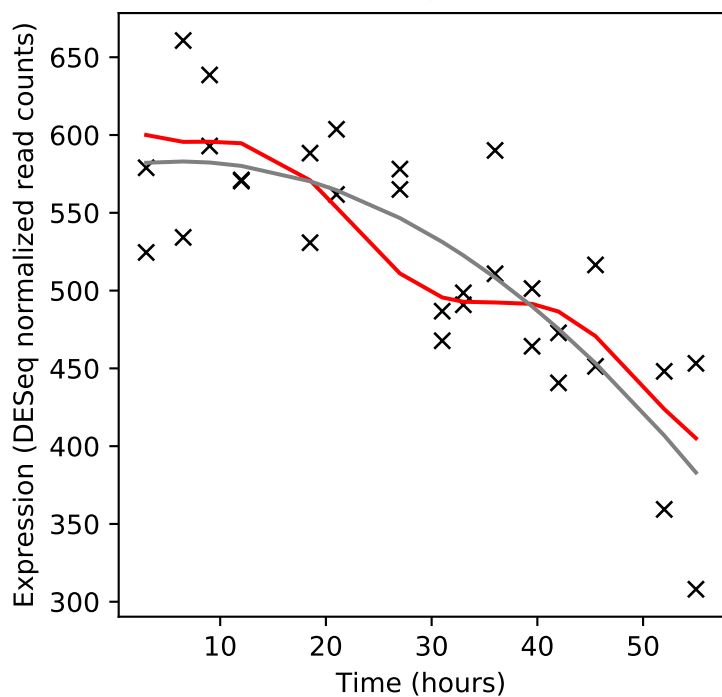
Rv2125/-



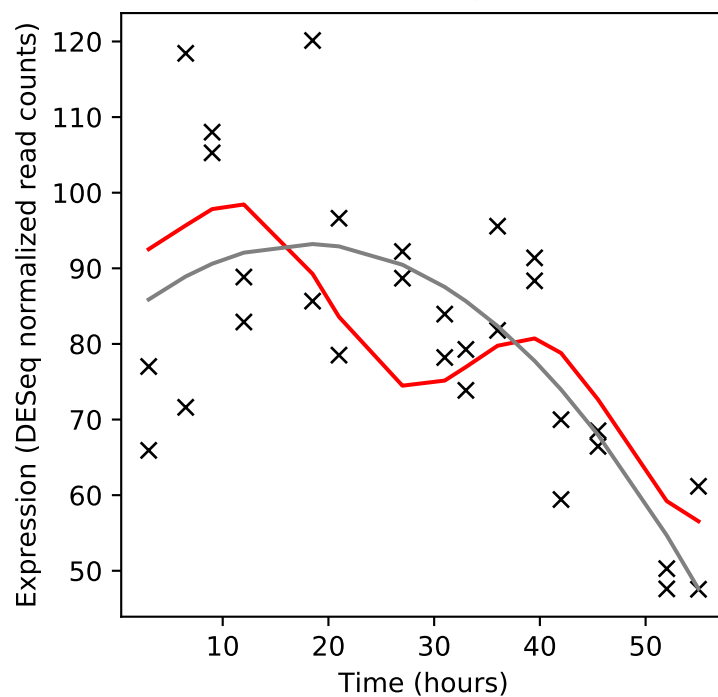
Rv2126c/PE_PGRS37



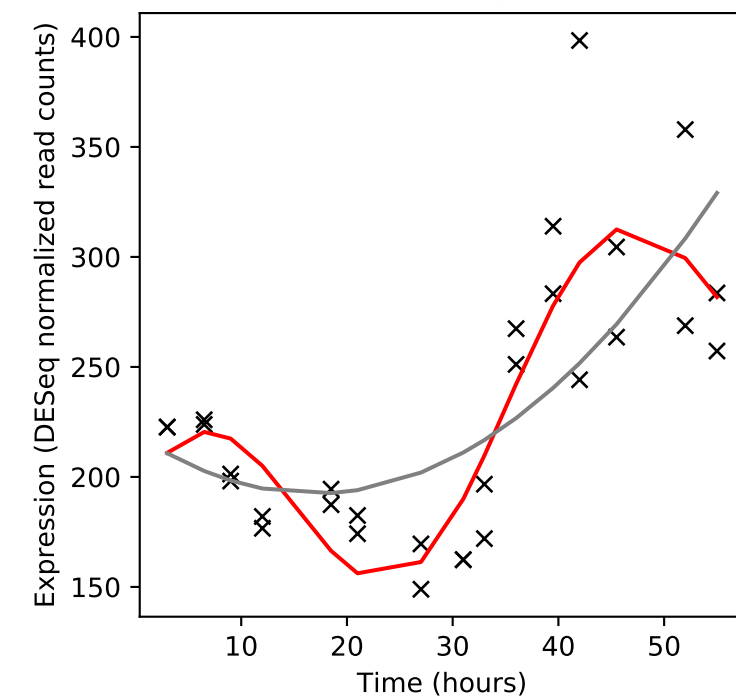
Rv2127/ansP1



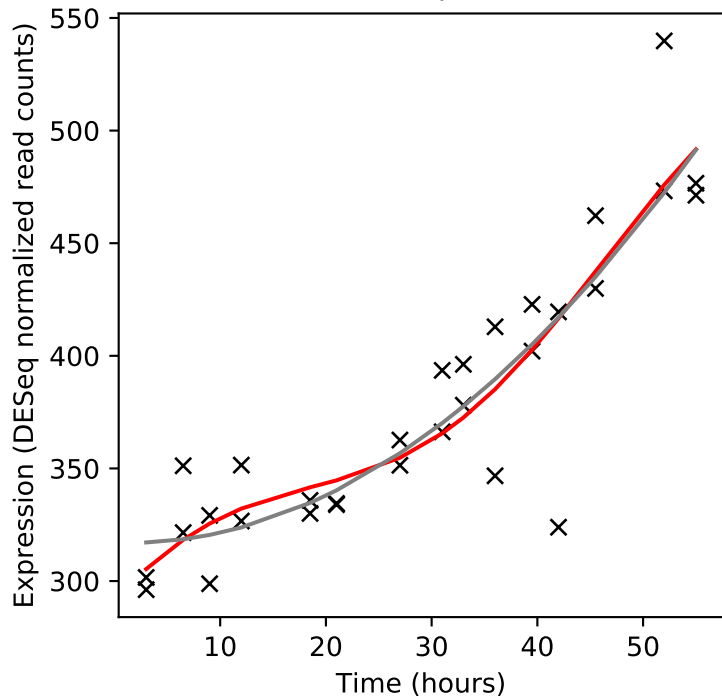
Rv2128/-



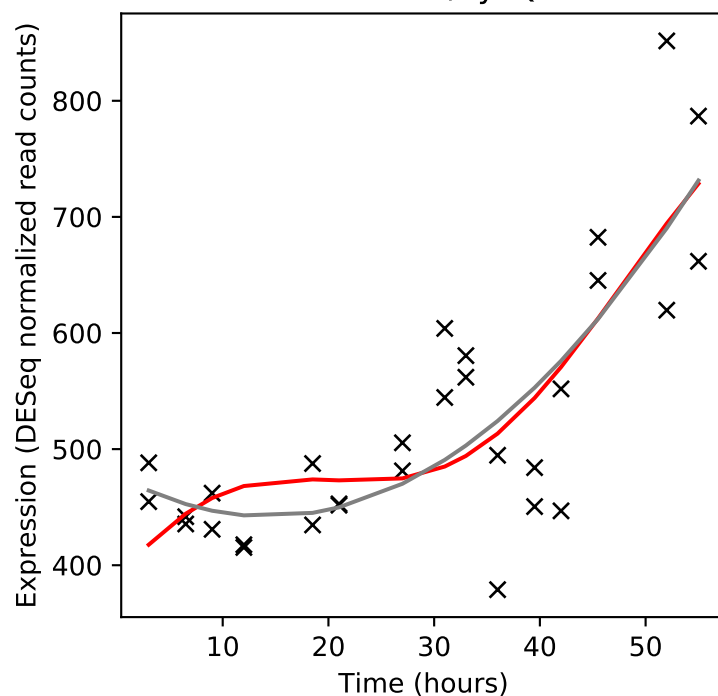
Rv2129c/-



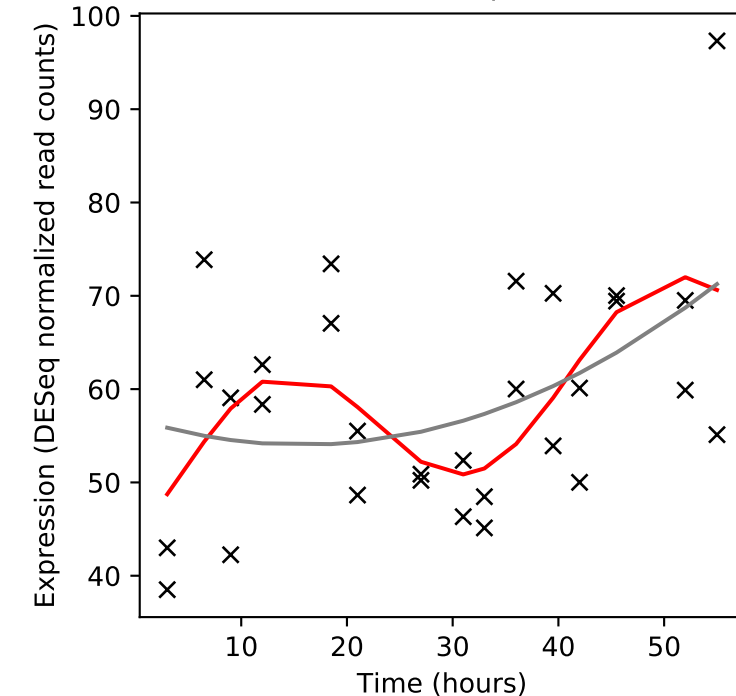
Rv2130c/mshC



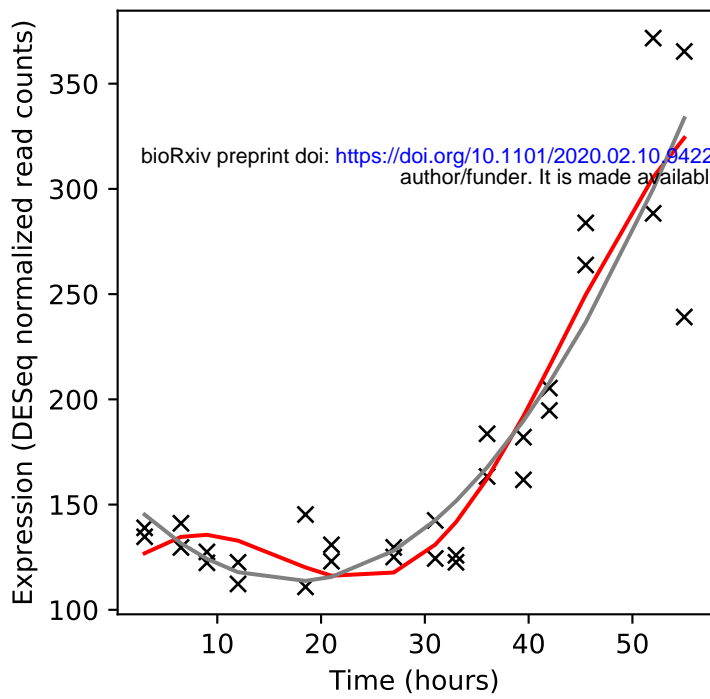
Rv2131c/cysQ



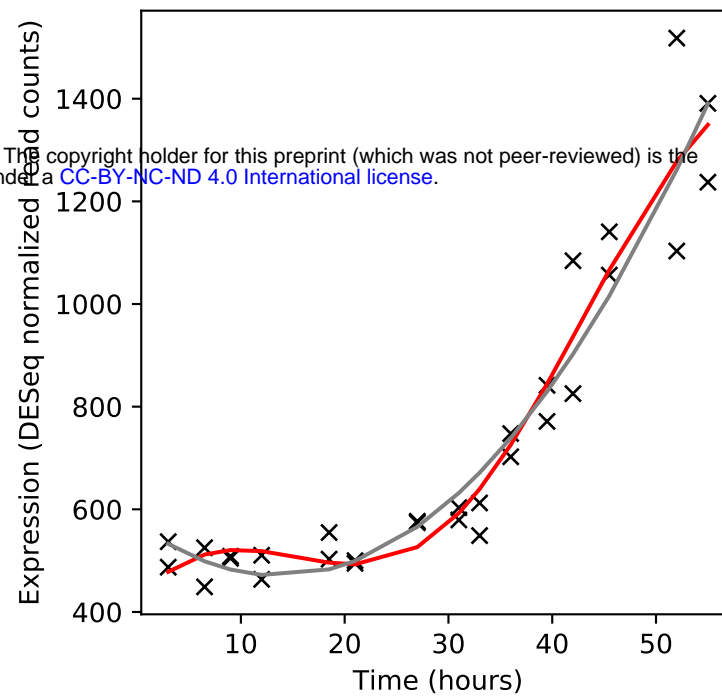
Rv2132/-



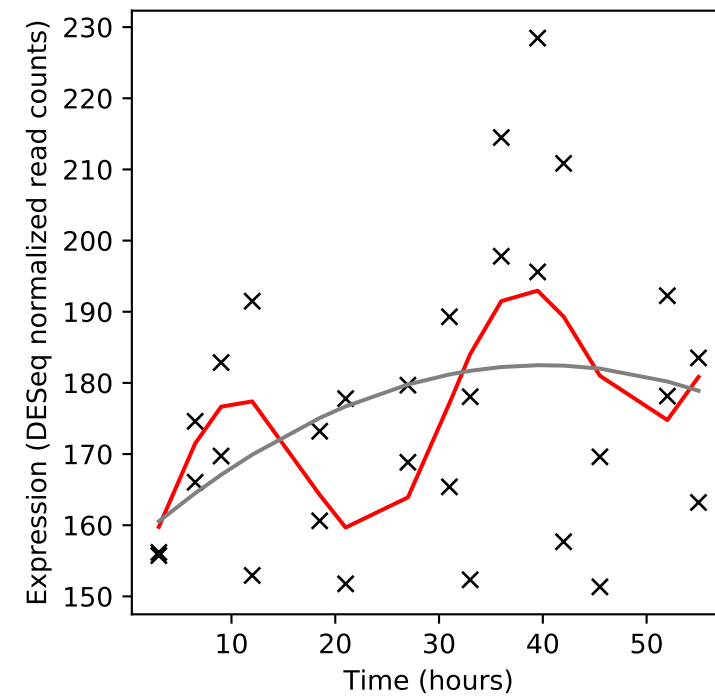
Rv2133c/-



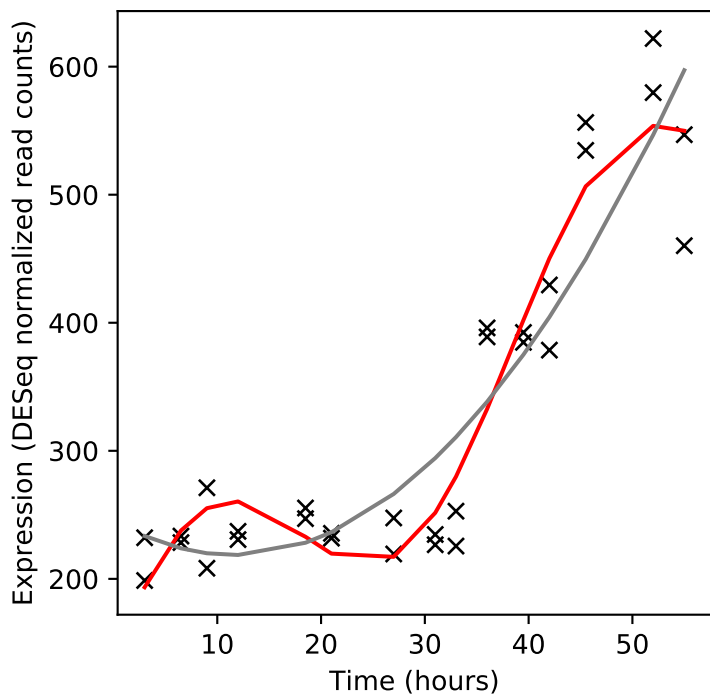
Rv2134c/-



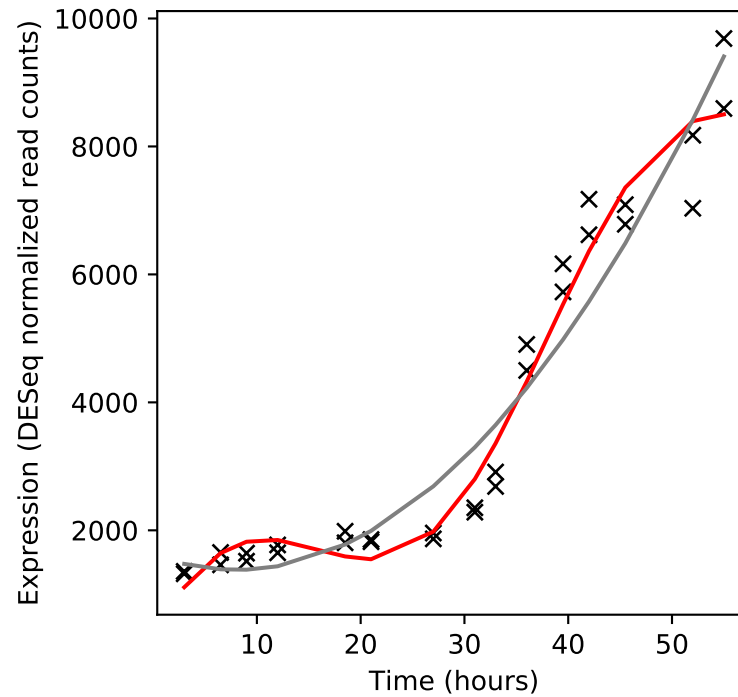
Rv2135c/-



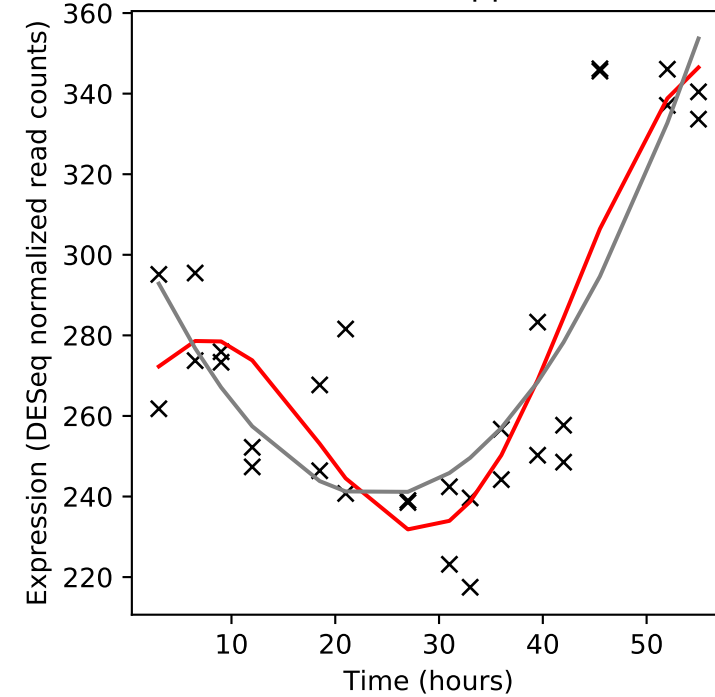
Rv2136c/-



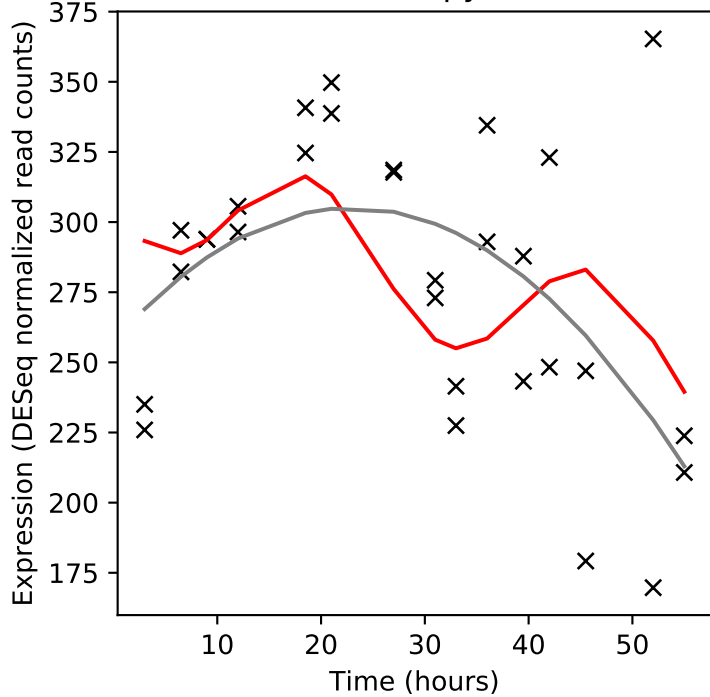
Rv2137c/-



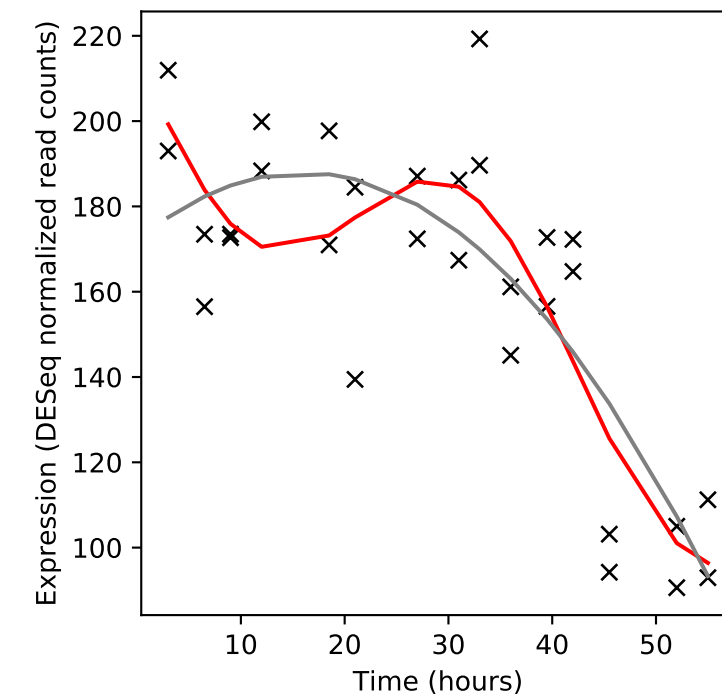
Rv2138/lppL



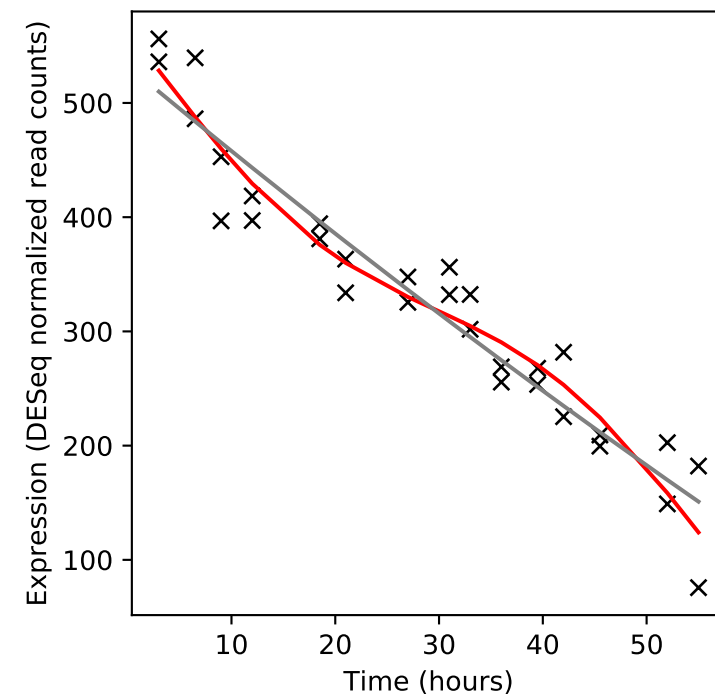
Rv2139/pyrD



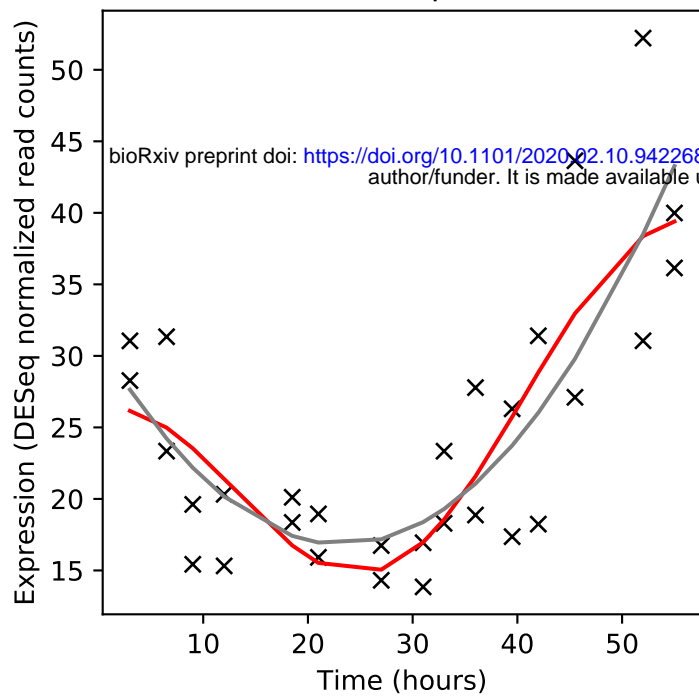
Rv2140c/TB18.6



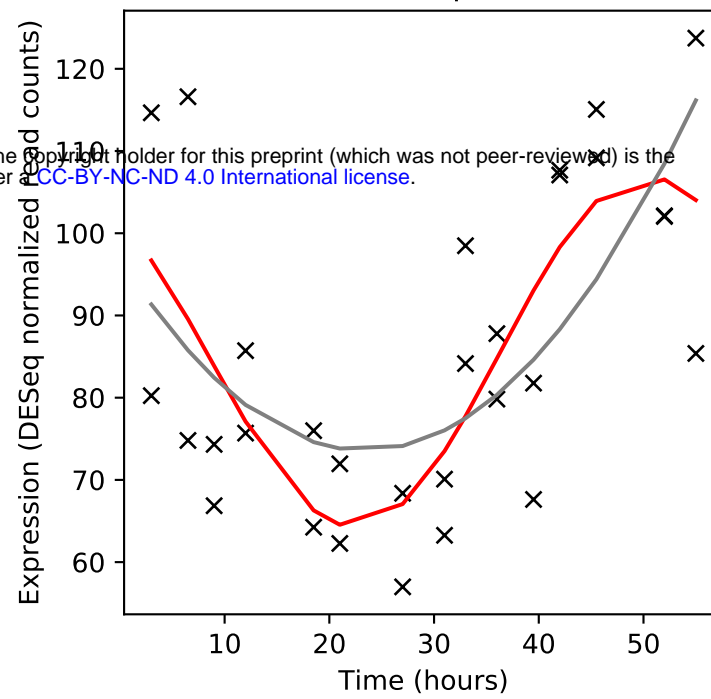
Rv2141c/-



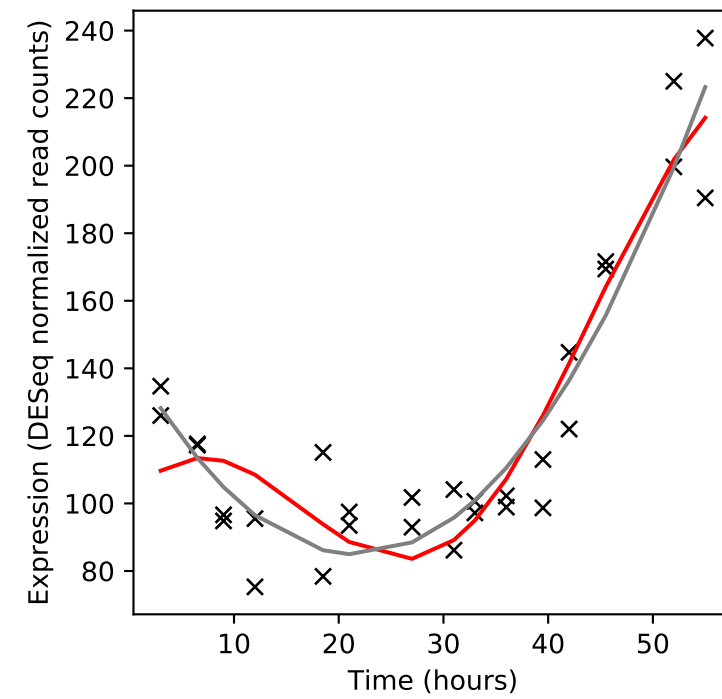
Rv2142c/parE2



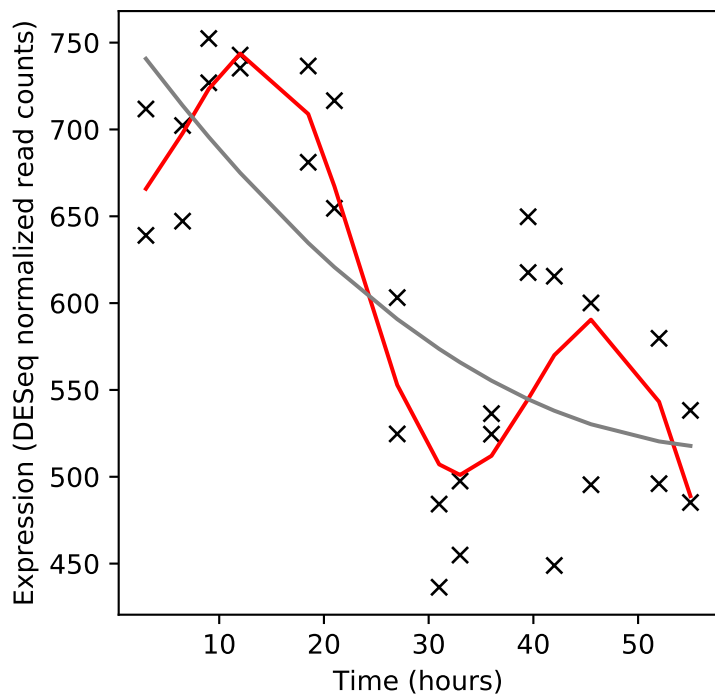
Rv2142A/parD2



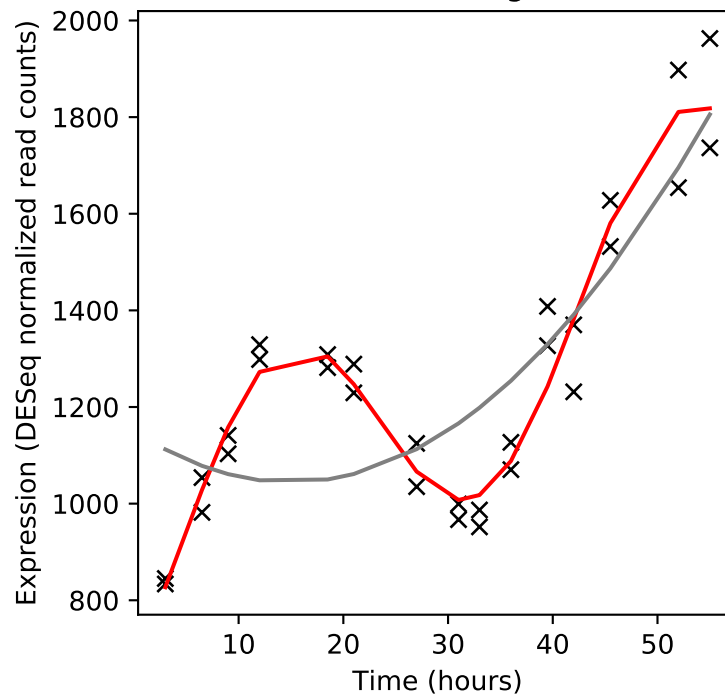
Rv2143/-



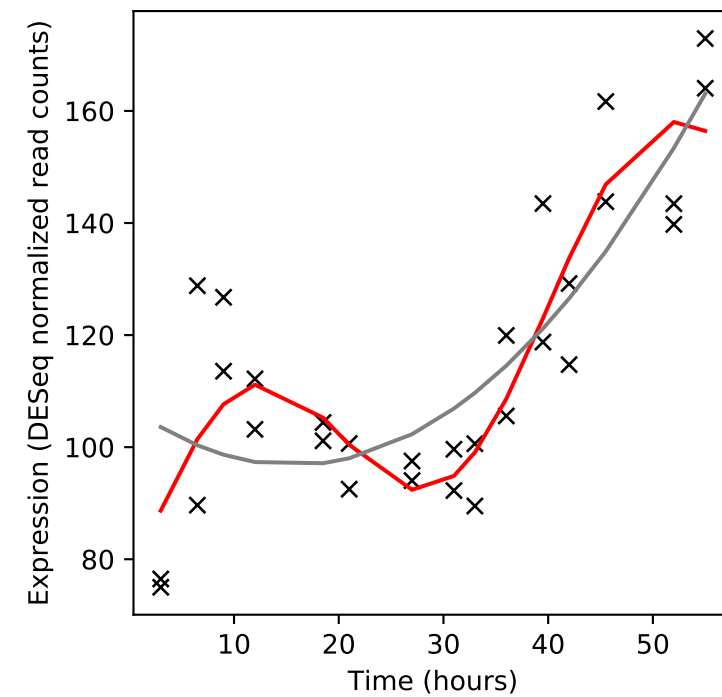
Rv2144c/-



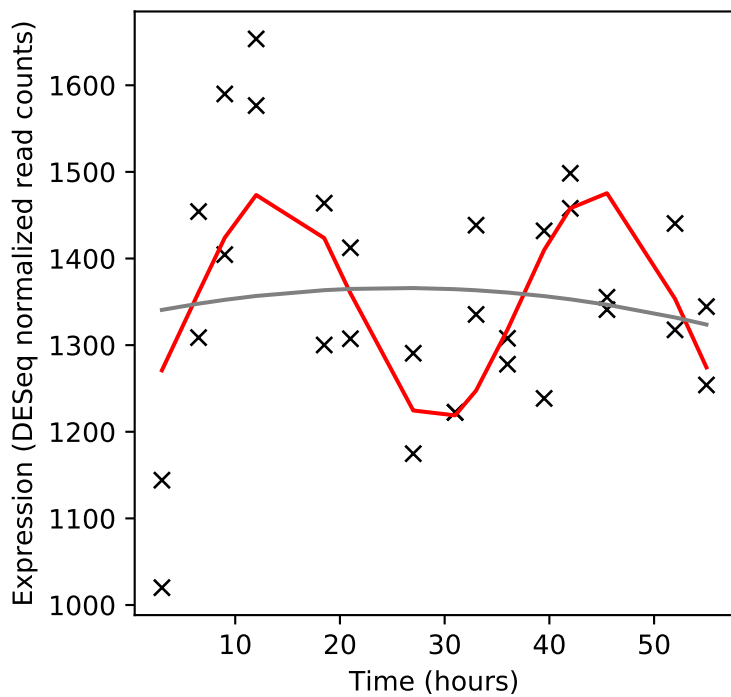
Rv2145c/wag31



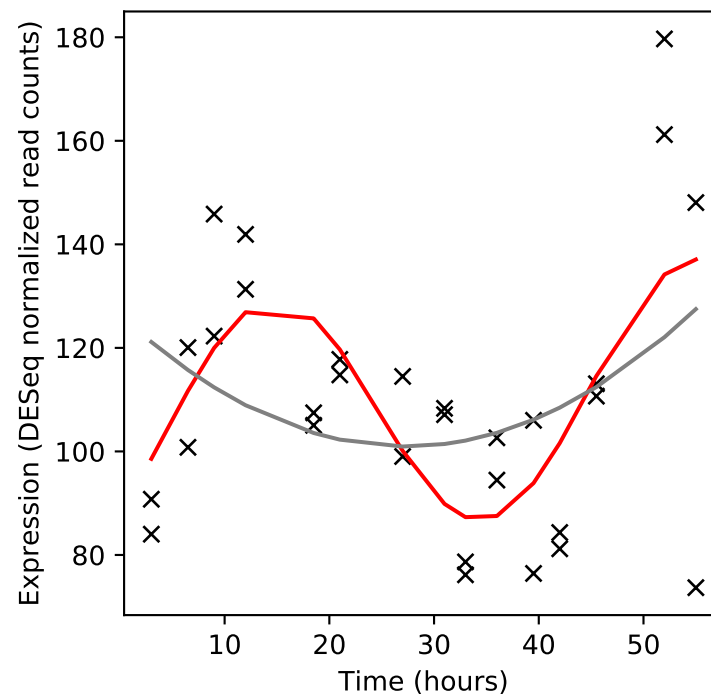
Rv2146c/-



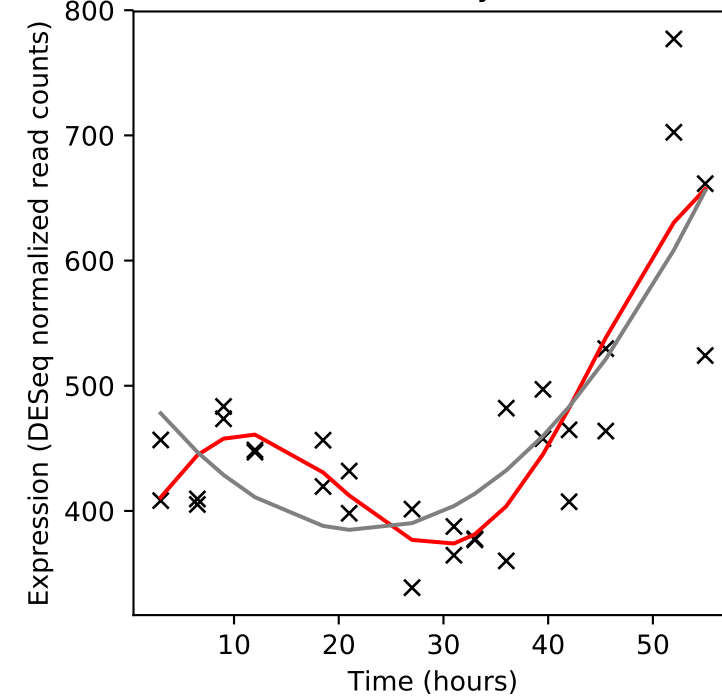
Rv2147c/-



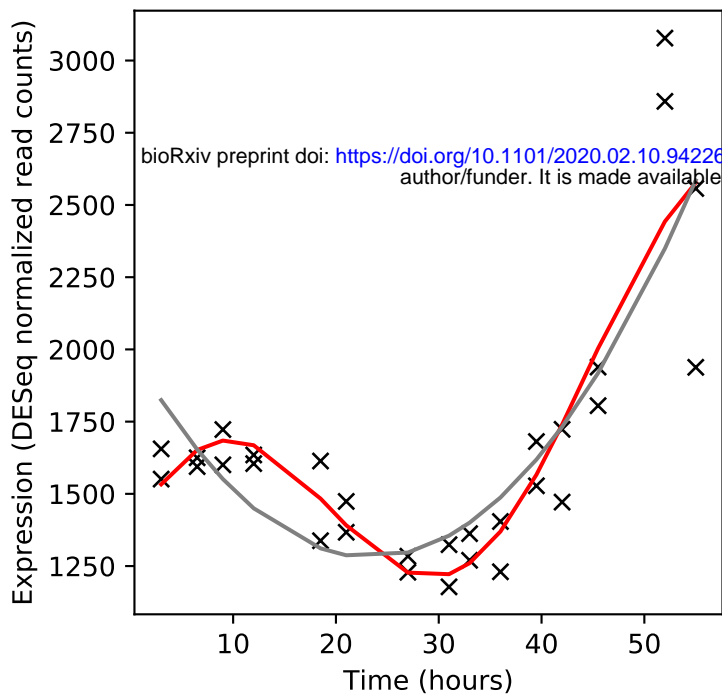
Rv2148c/-



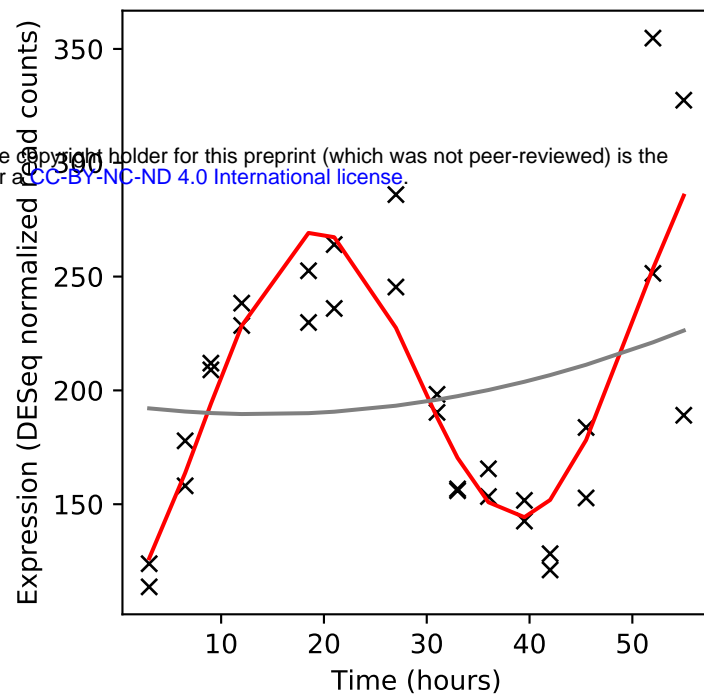
Rv2149c/yfiH



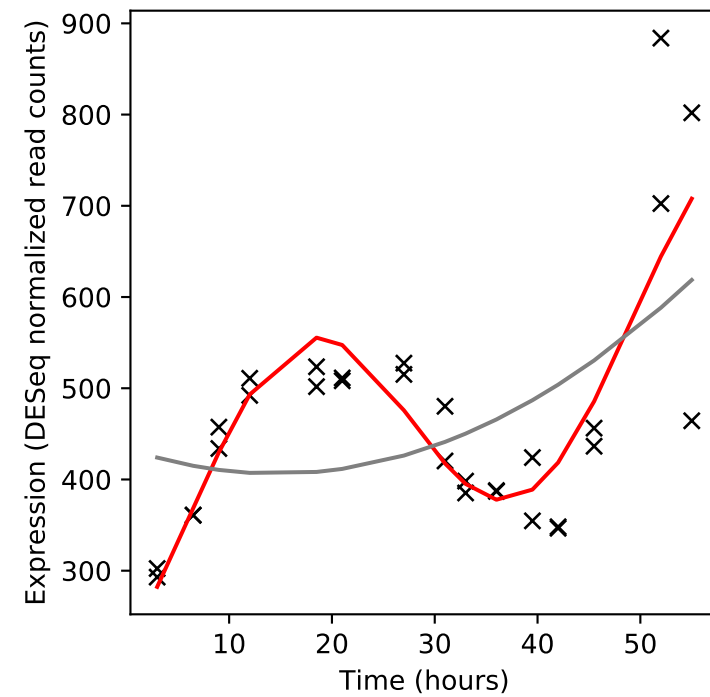
Rv2150c/ftsZ



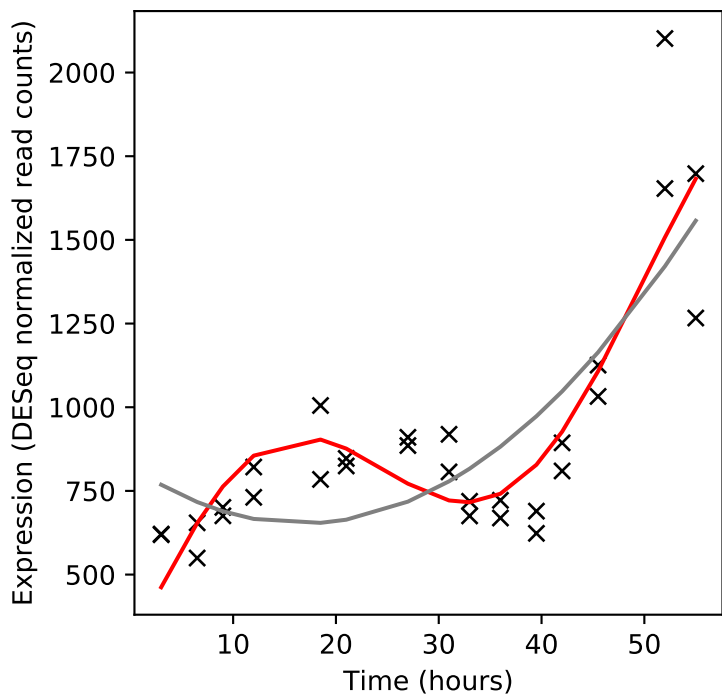
Rv2151c/ftsQ



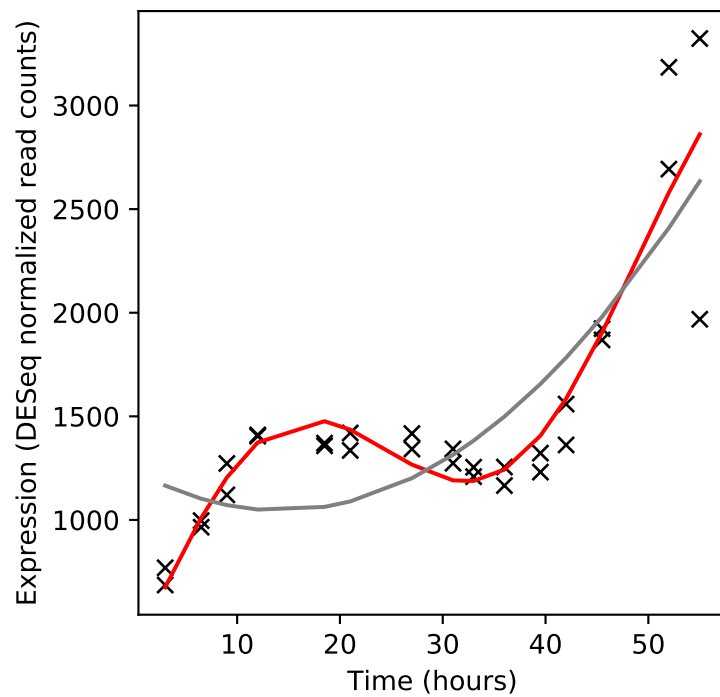
Rv2152c/murC



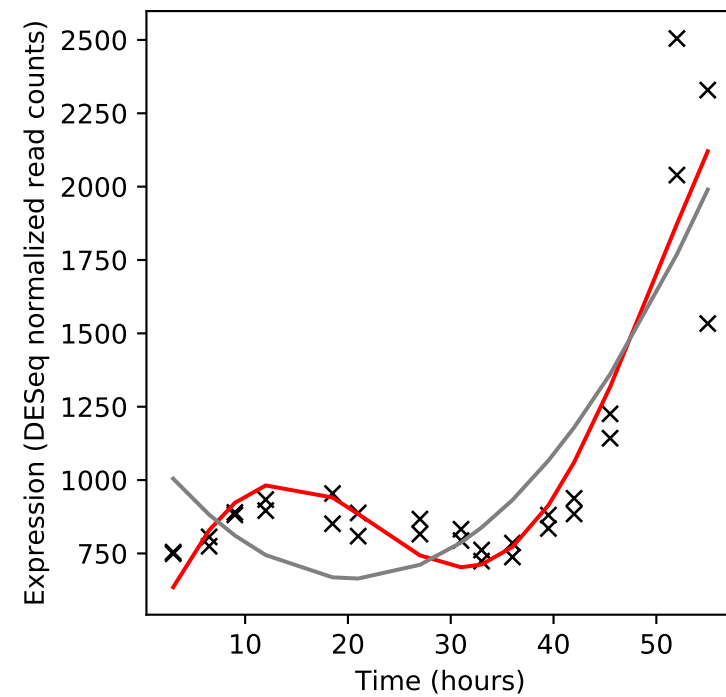
Rv2153c/murG



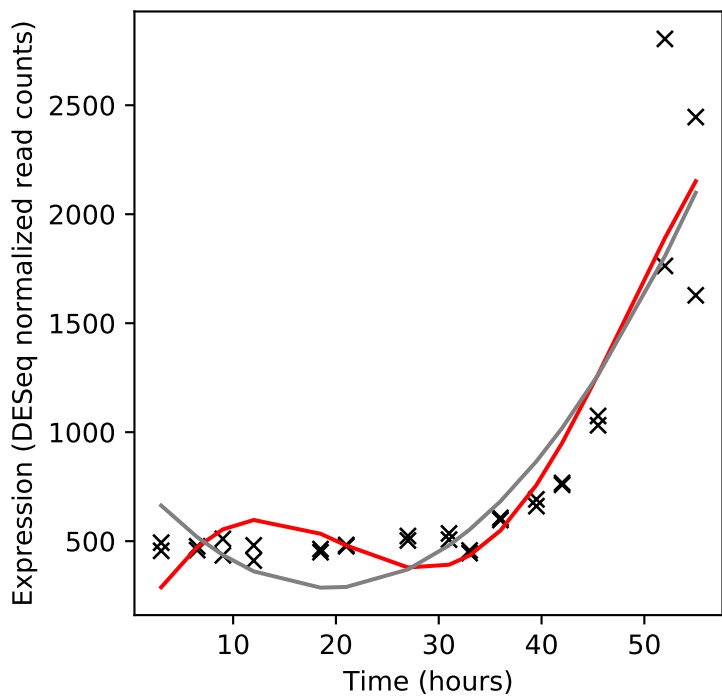
Rv2154c/ftsW



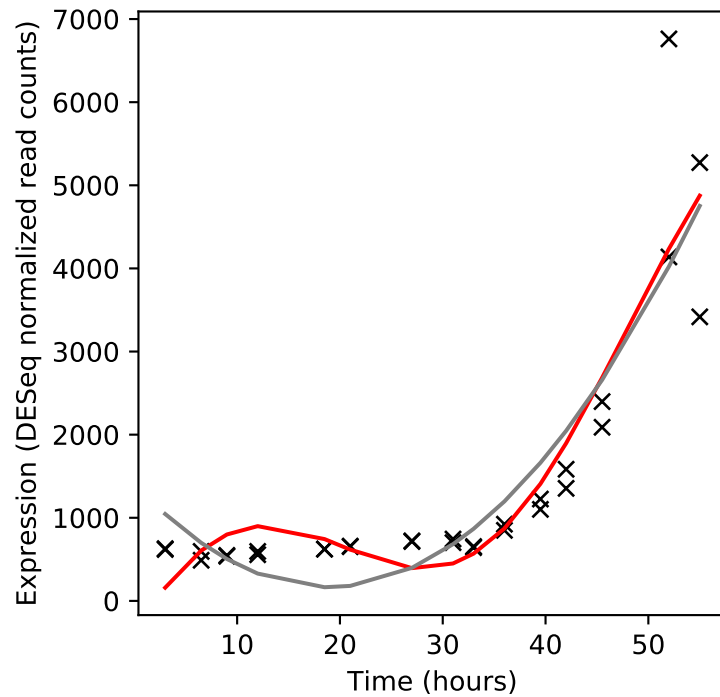
Rv2155c/murD



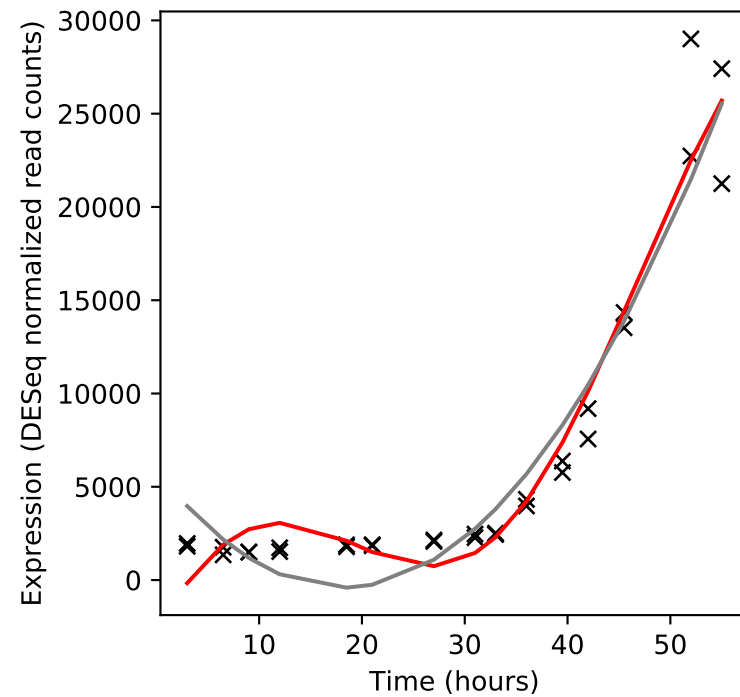
Rv2156c/murX



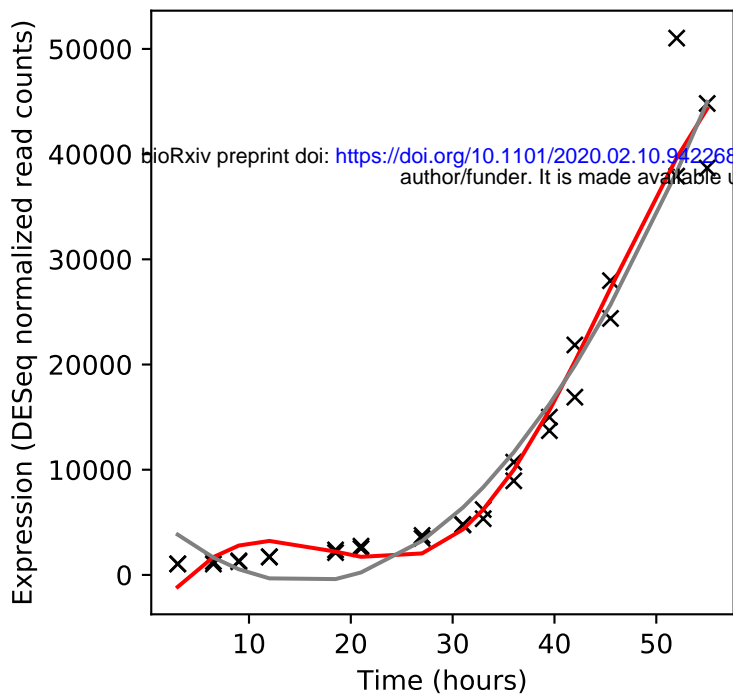
Rv2157c/murF



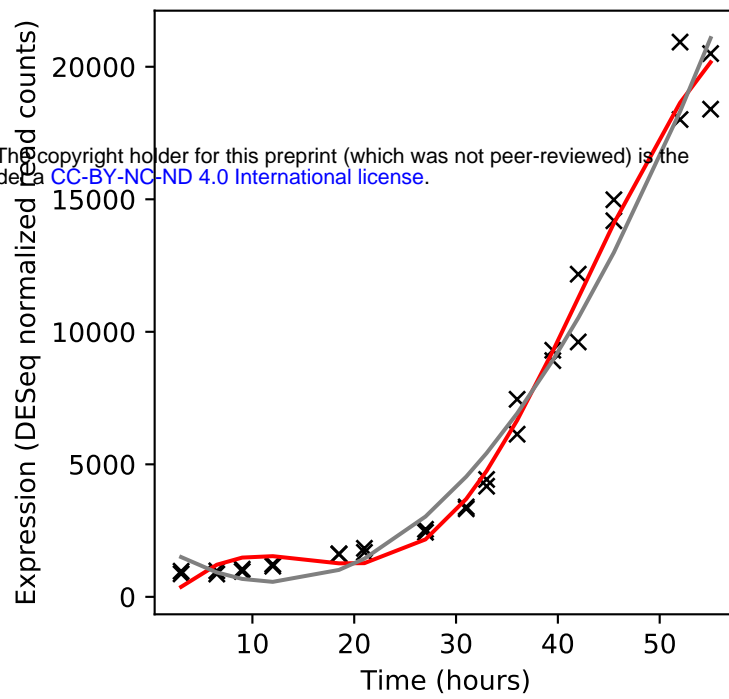
Rv2158c/murE



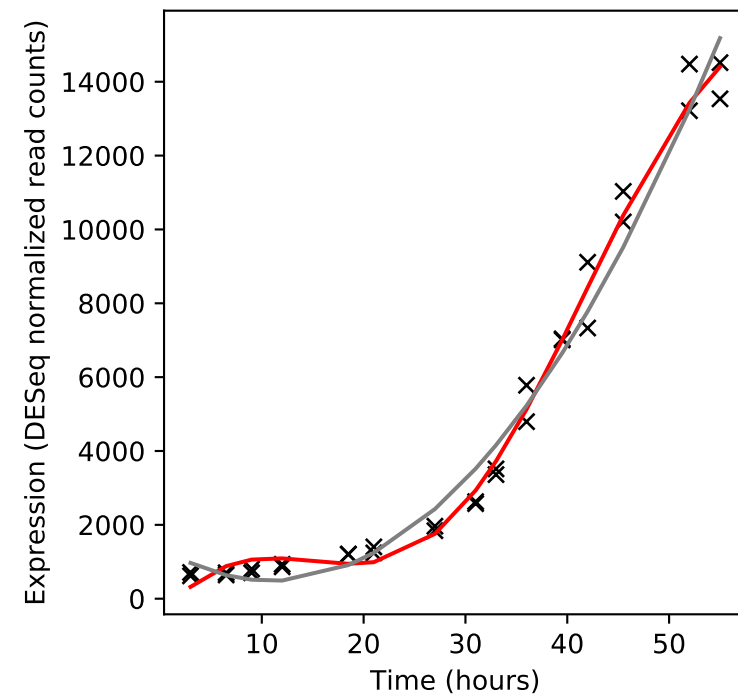
Rv2159c/-



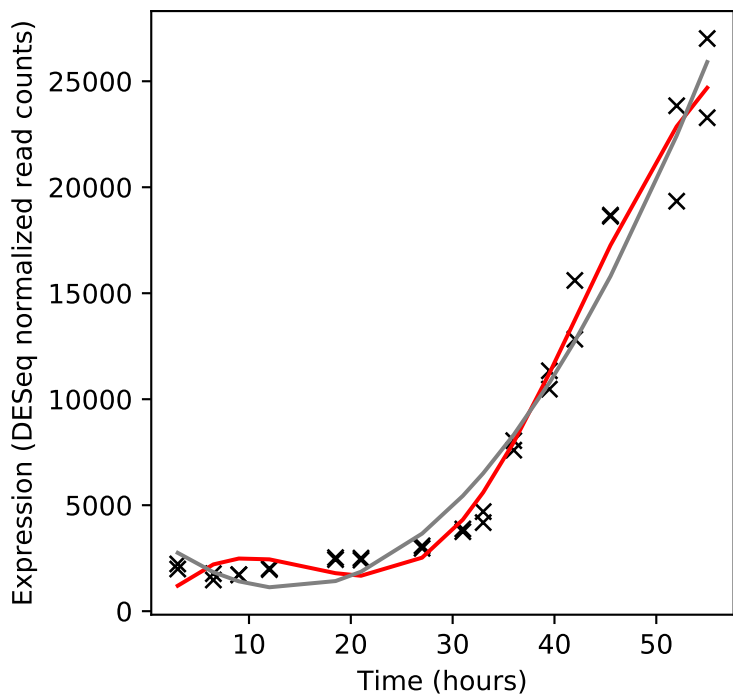
Rv2160A/-



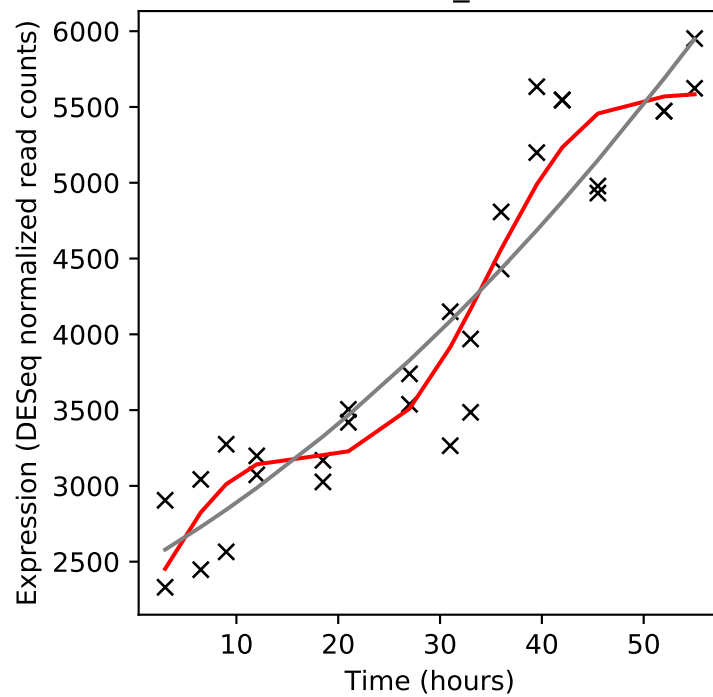
Rv2160c/-



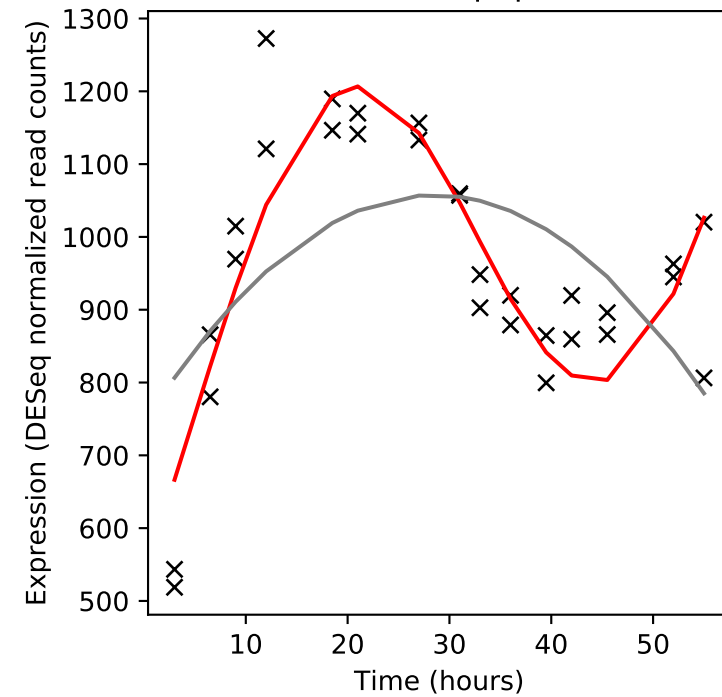
Rv2161c/-



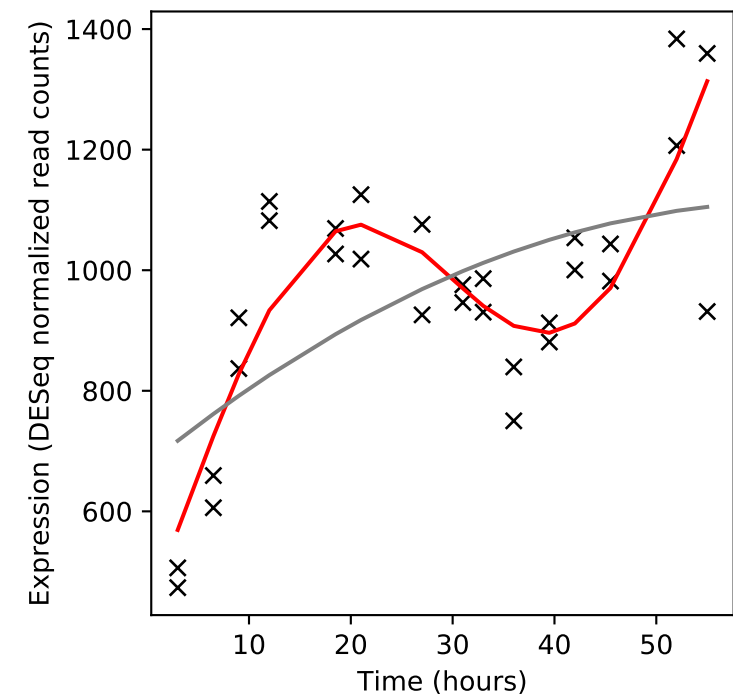
Rv2162c/PE_PGRS38



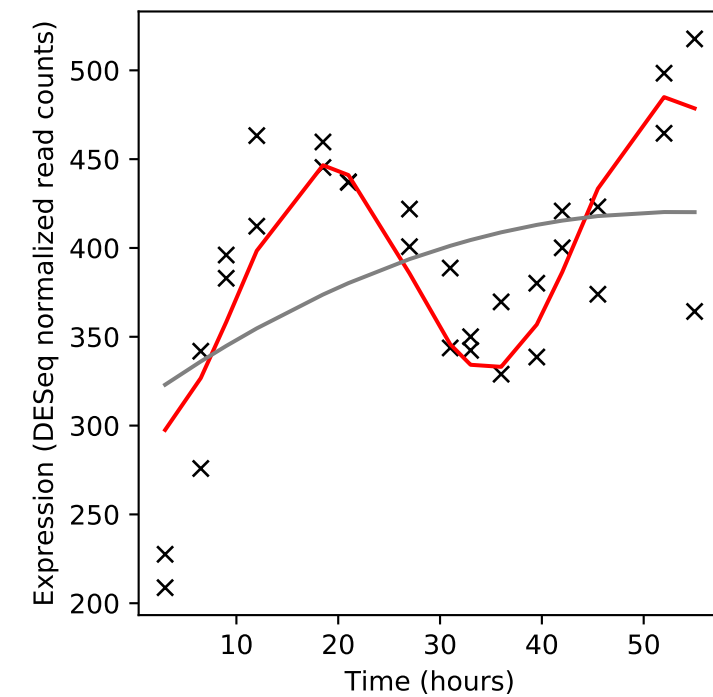
Rv2163c/pbpB



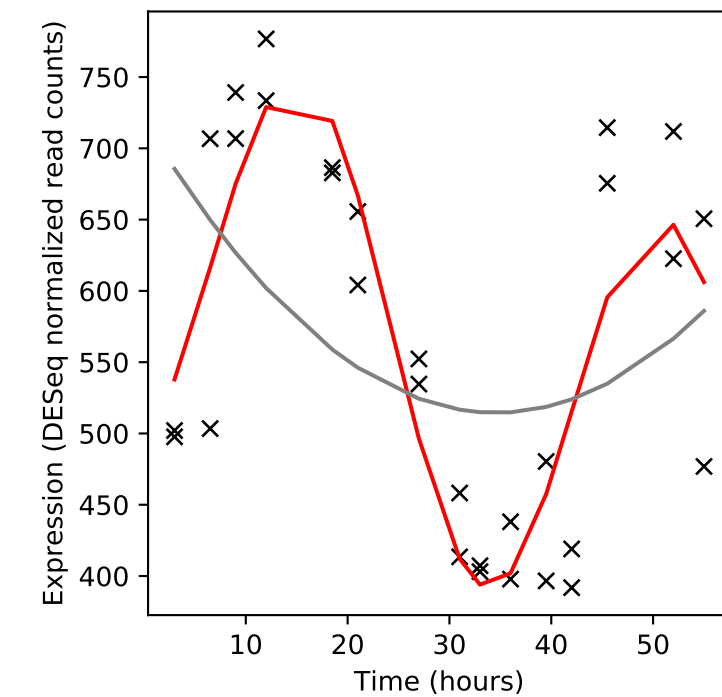
Rv2164c/-



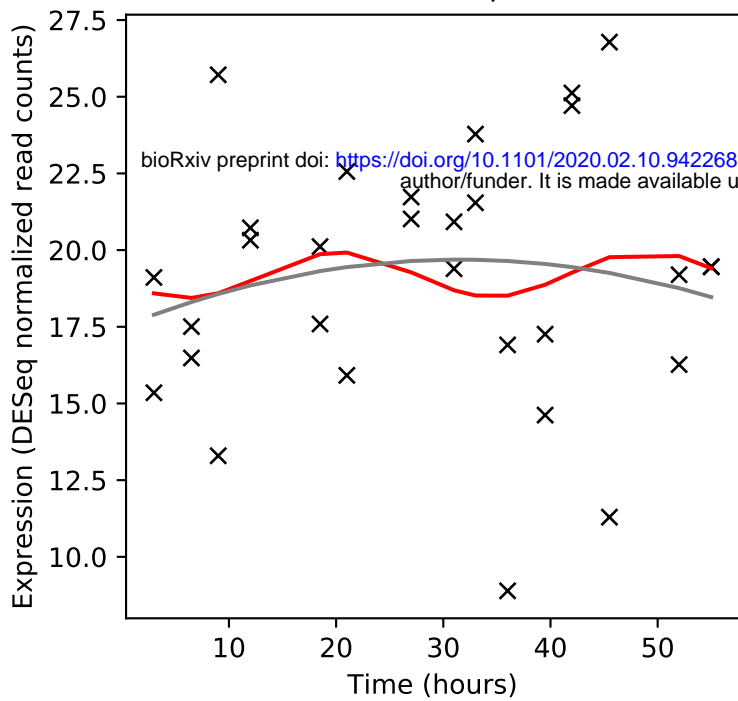
Rv2165c/-



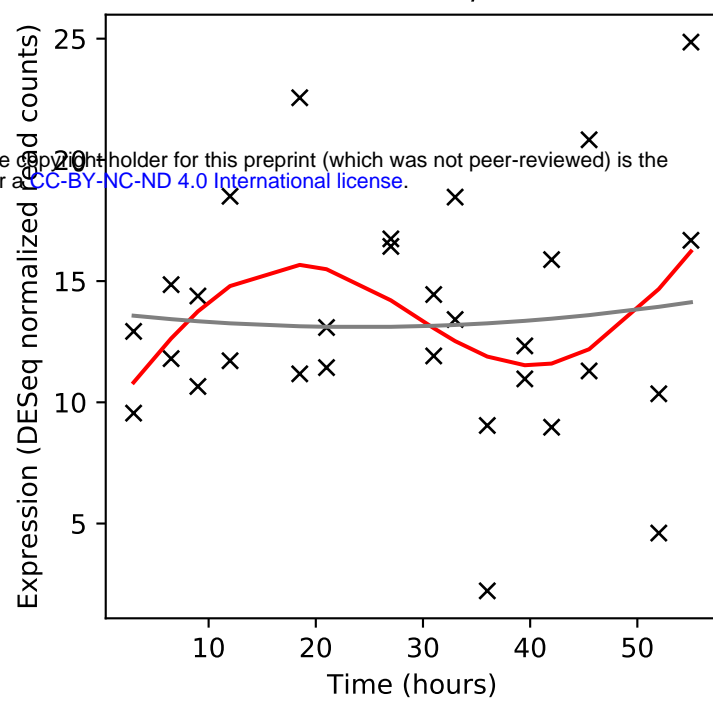
Rv2166c/-



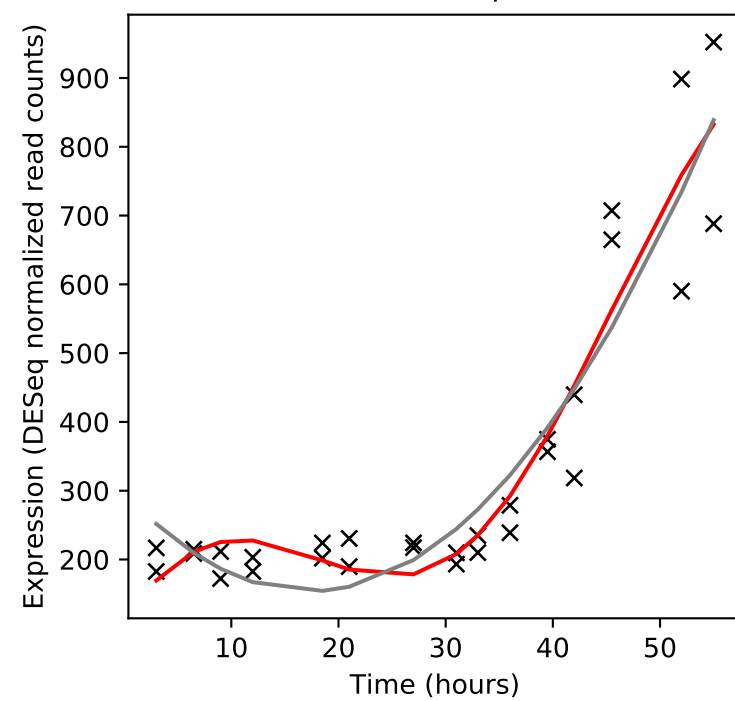
Rv2167c/-



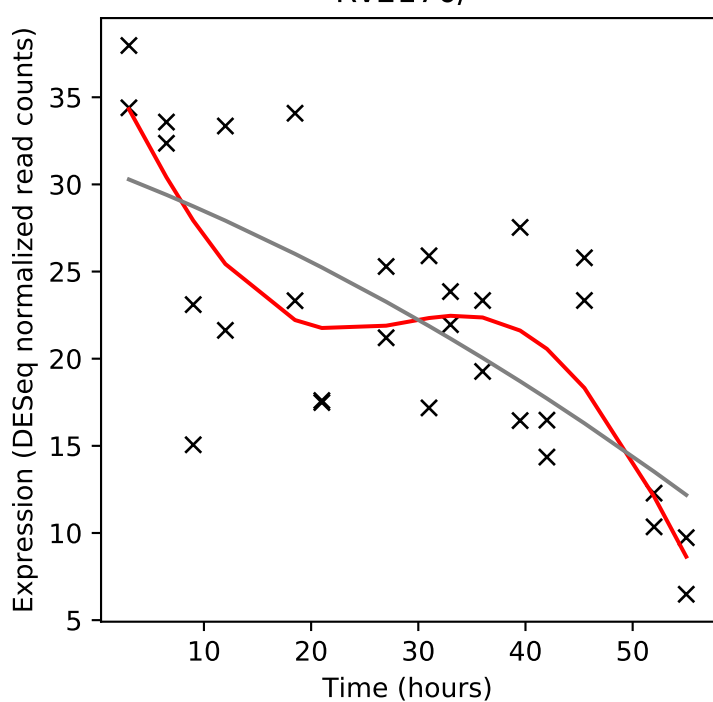
Rv2168c/-



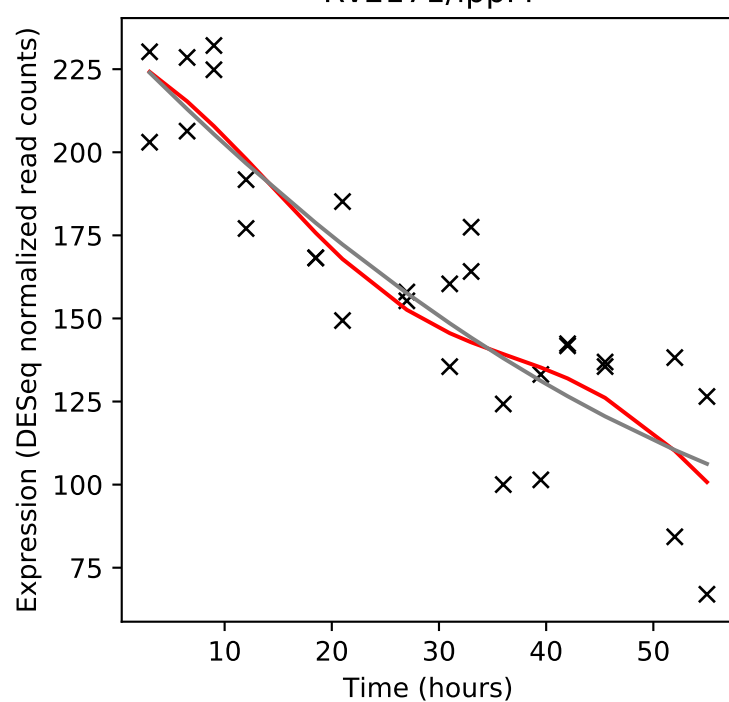
Rv2169c/-



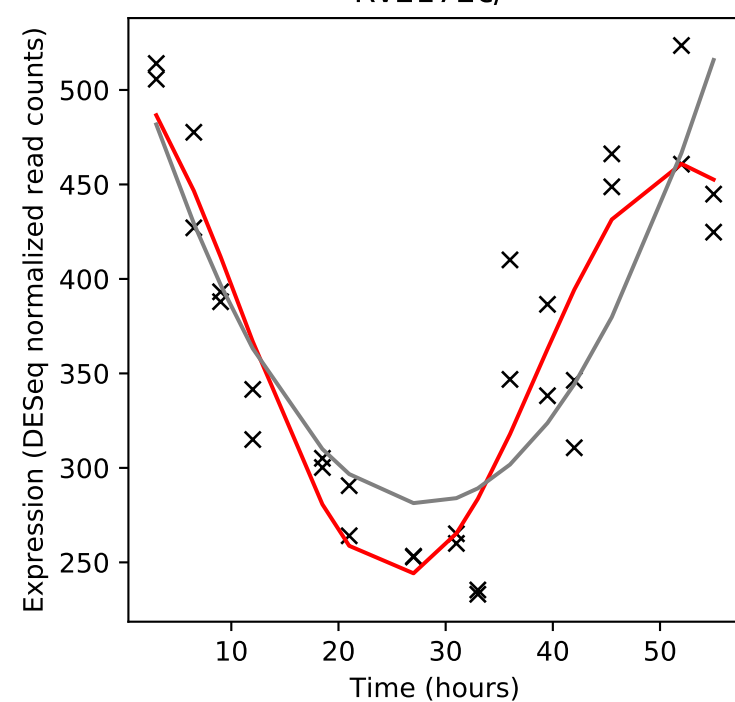
Rv2170/-



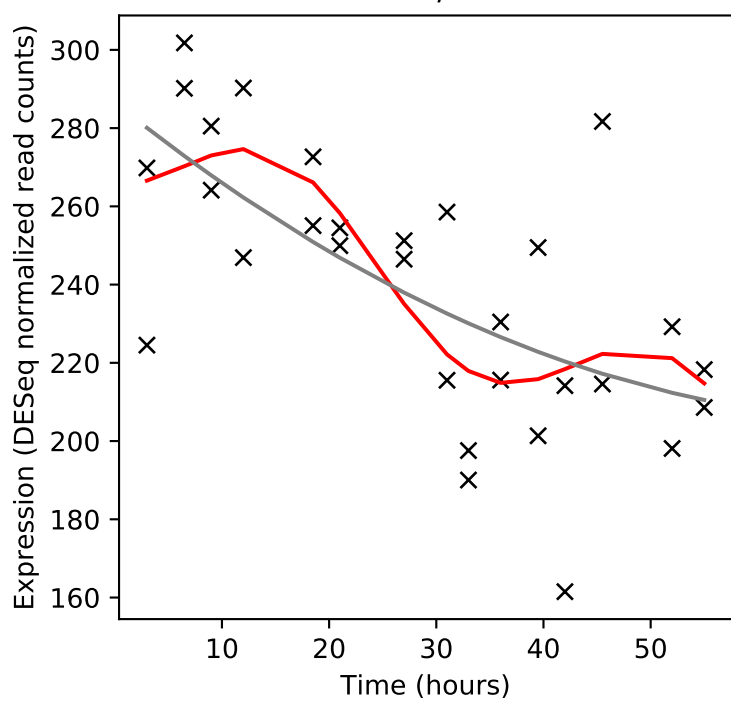
Rv2171/lppM



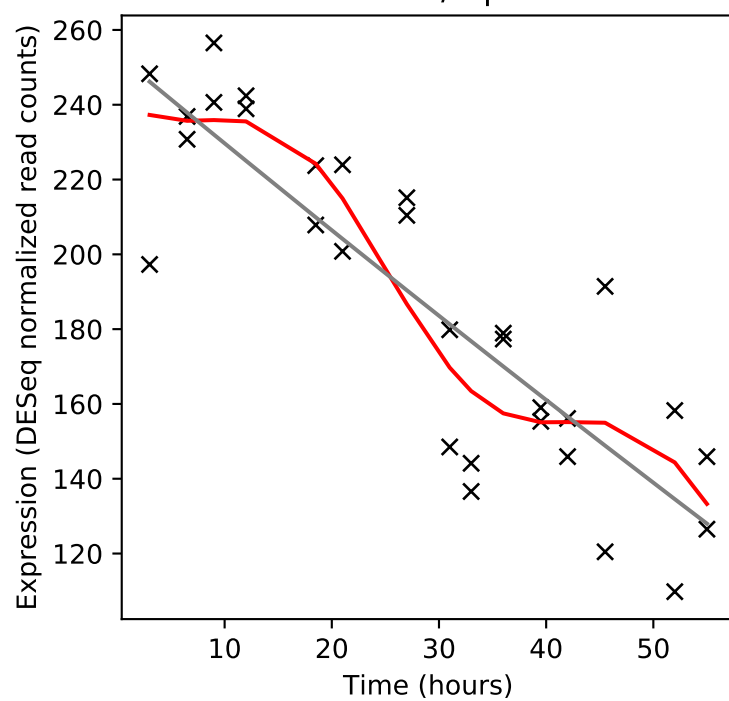
Rv2172c/-



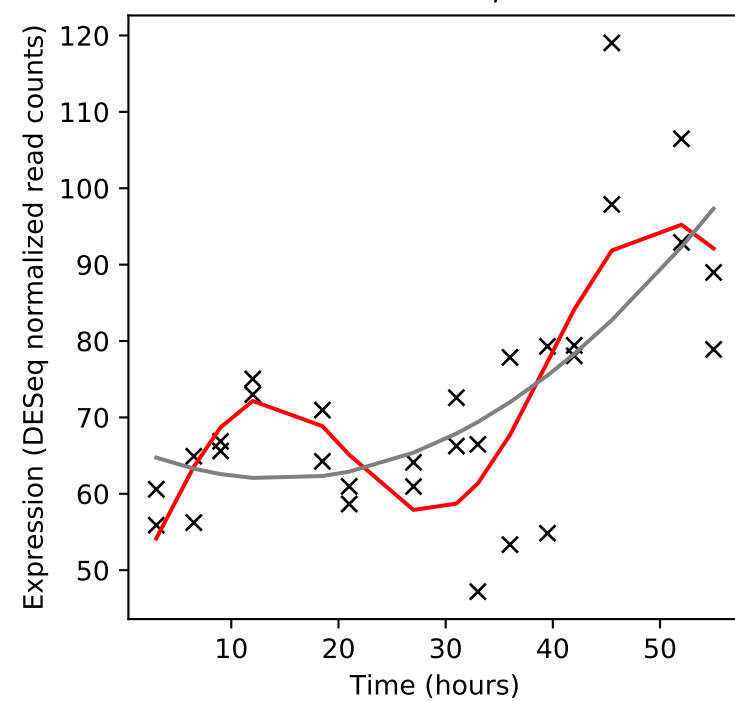
Rv2173/idsA2



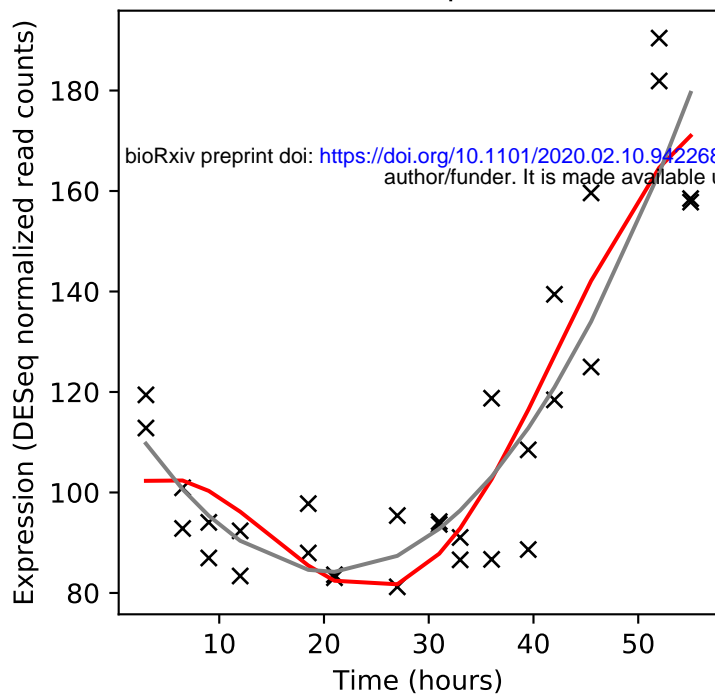
Rv2174/mptA



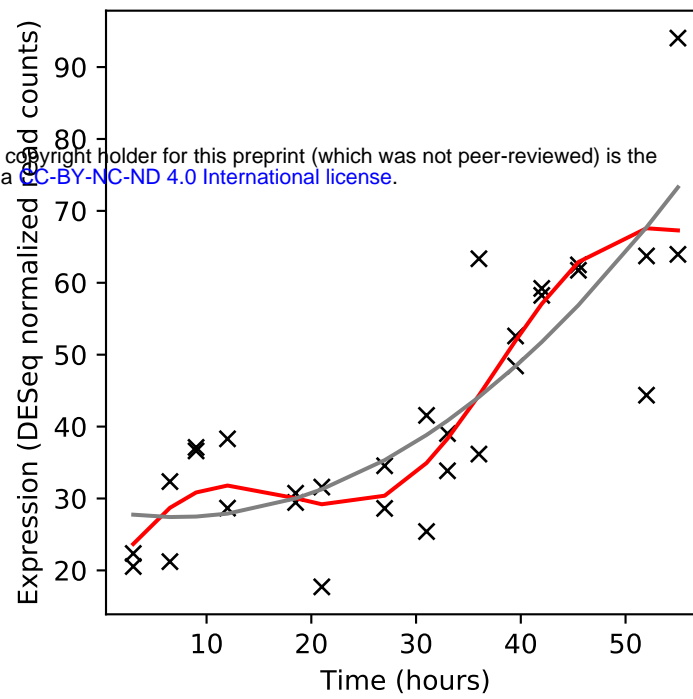
Rv2175c/-



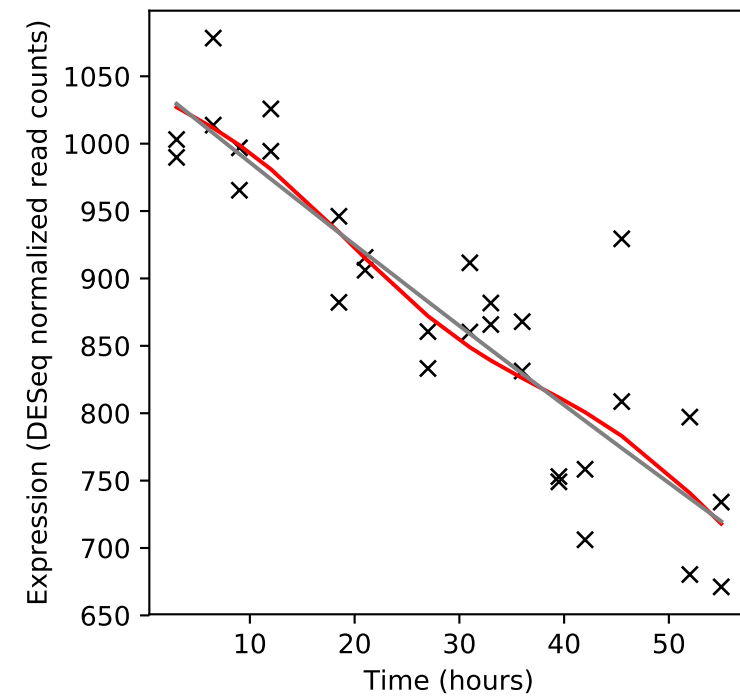
Rv2176/pknL



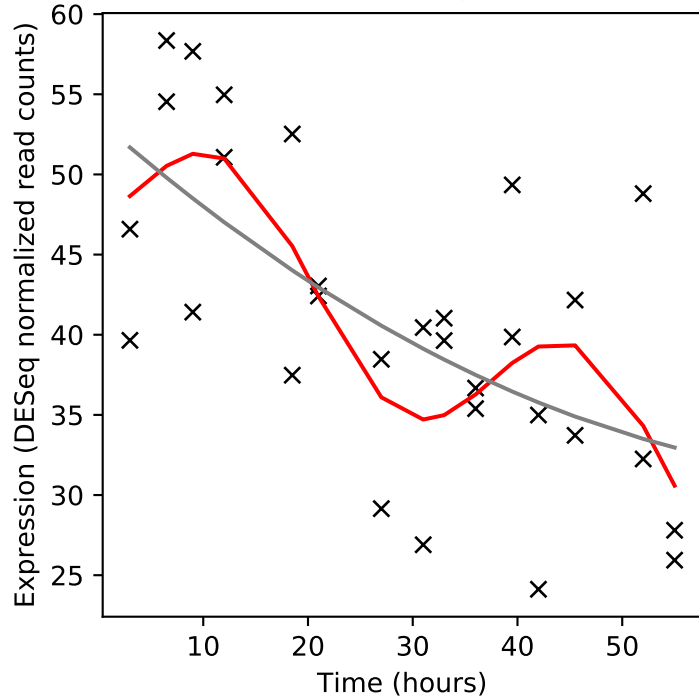
Rv2177c/-



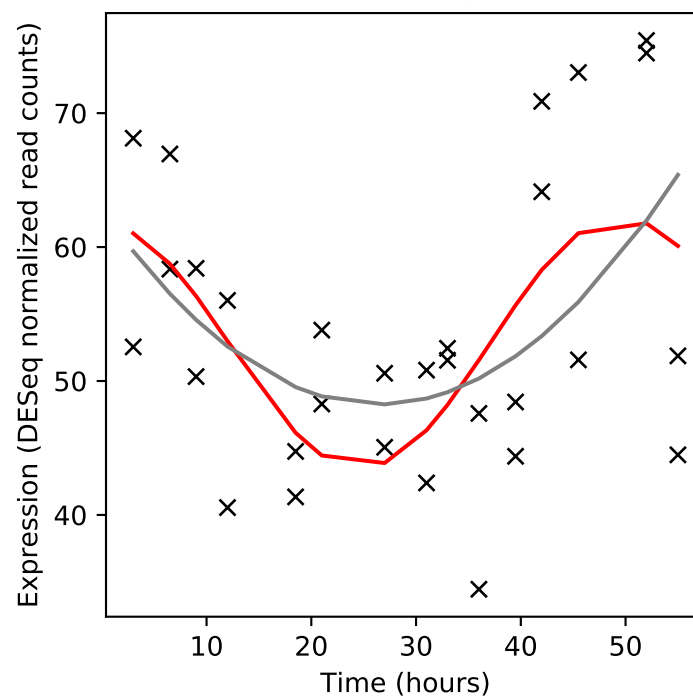
Rv2178c/aroG



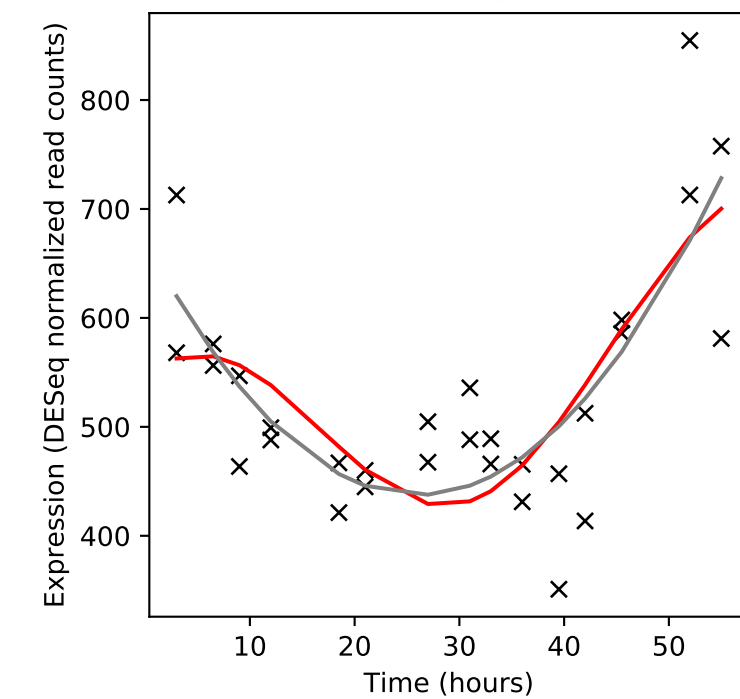
Rv2179c/-



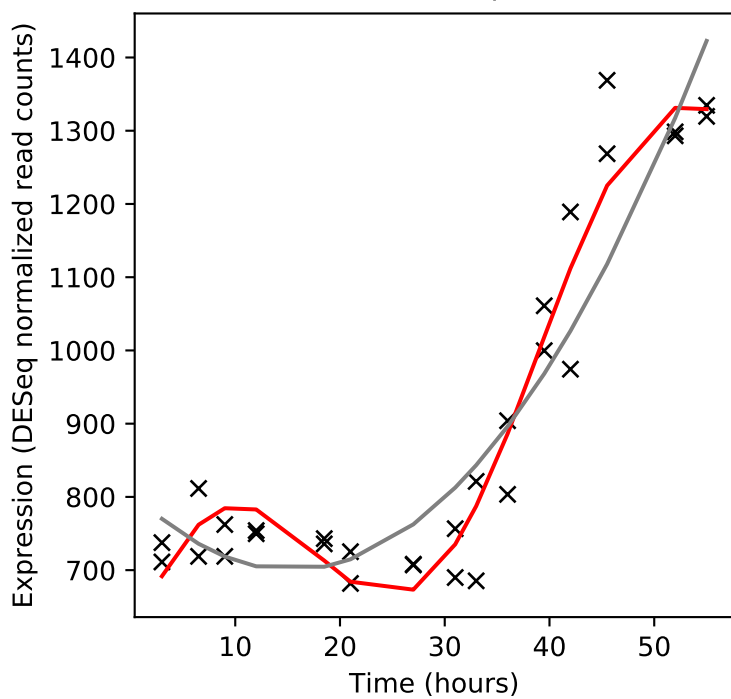
Rv2180c/-



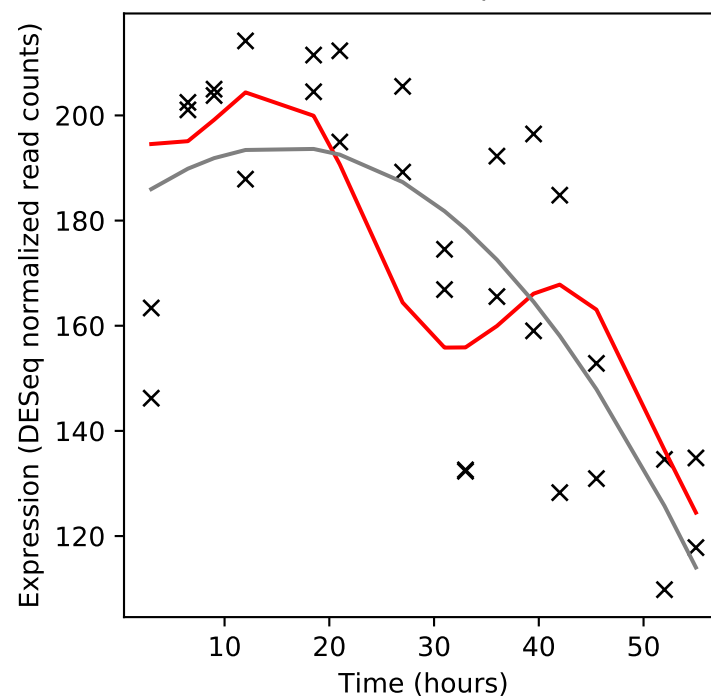
Rv2181/-



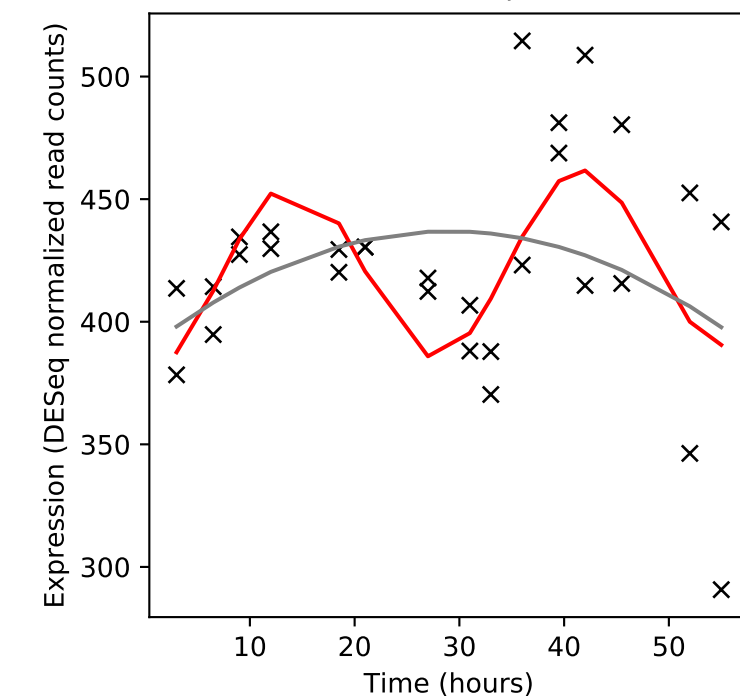
Rv2182c/-



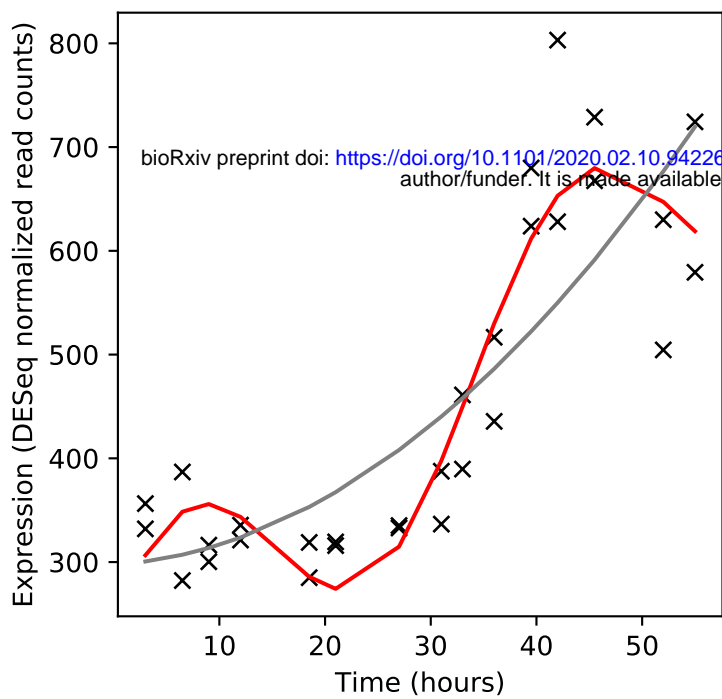
Rv2183c/-



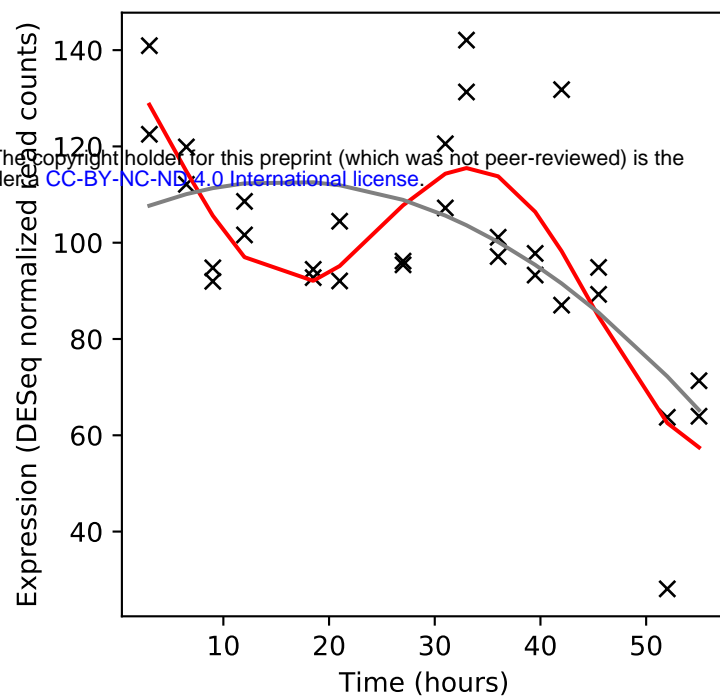
Rv2184c/-



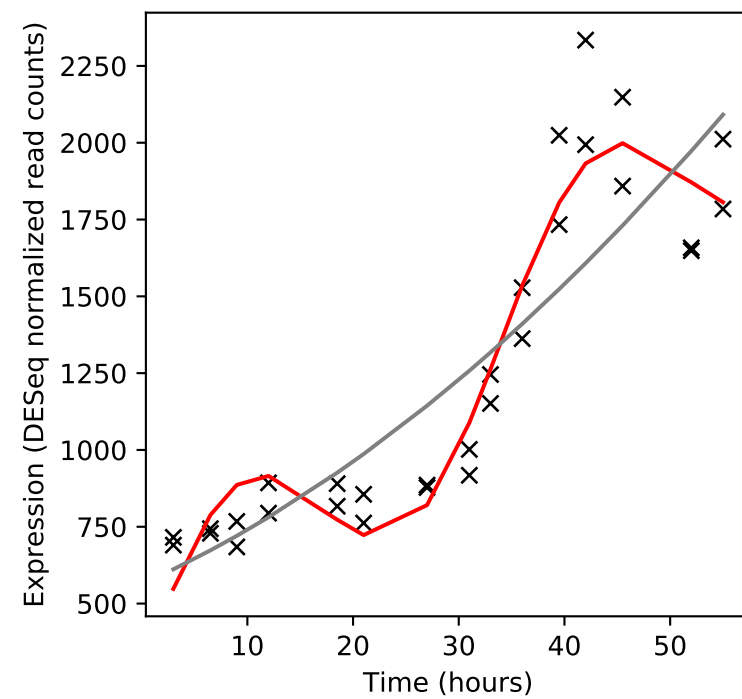
Rv2185c/TB16.3



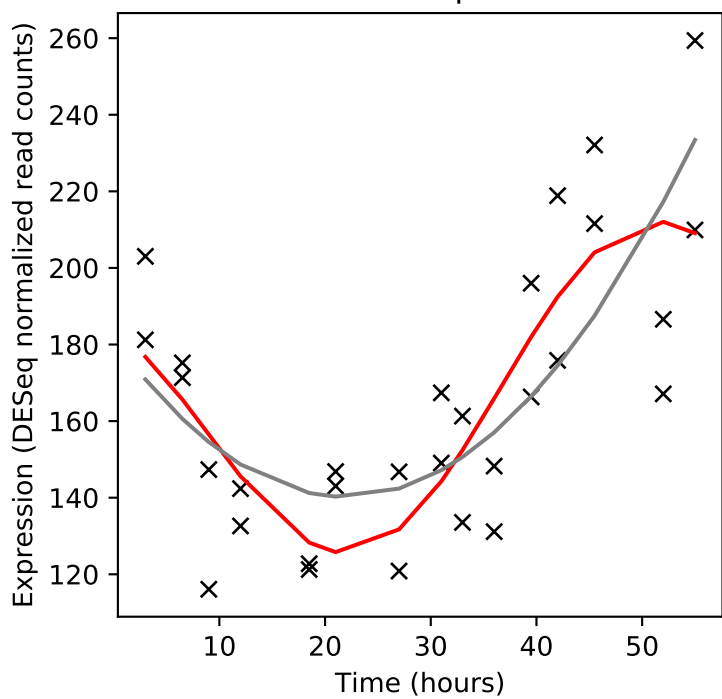
Rv2186c/-



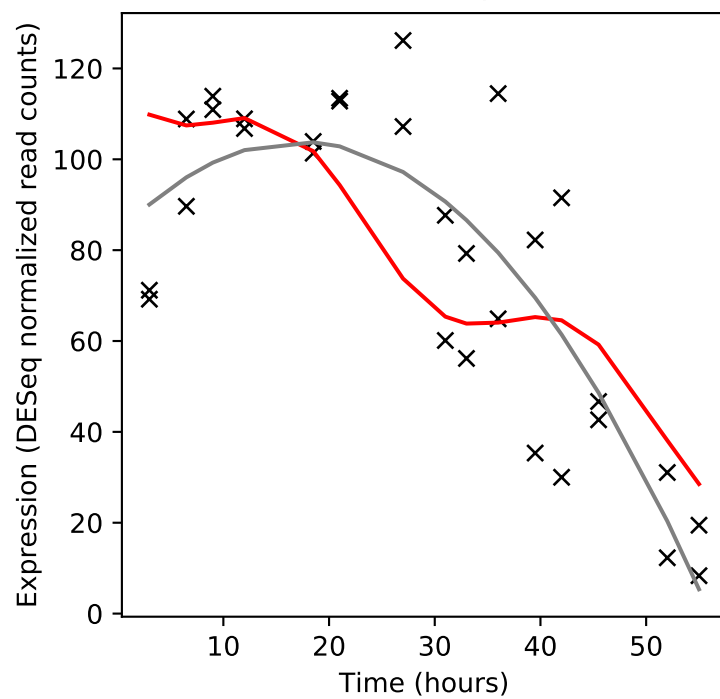
Rv2187/fadD15



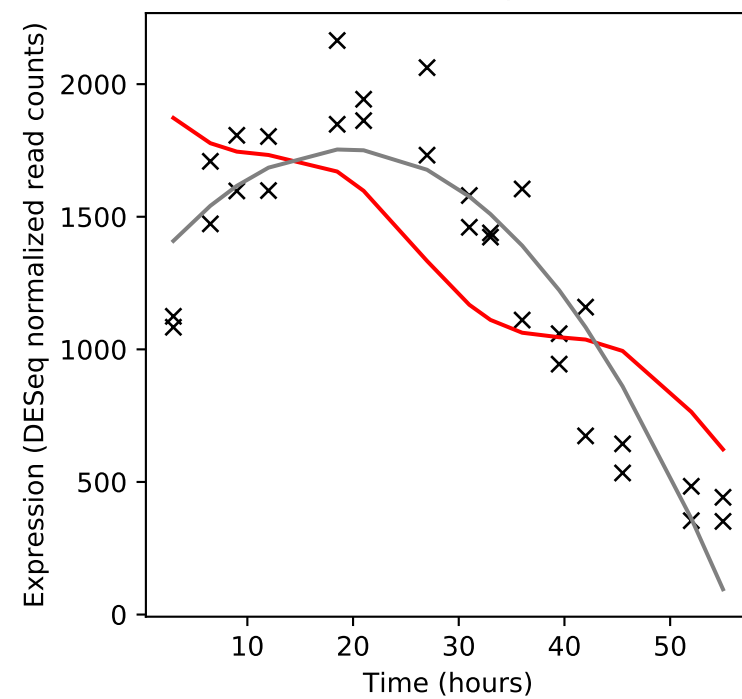
Rv2188c/pimB



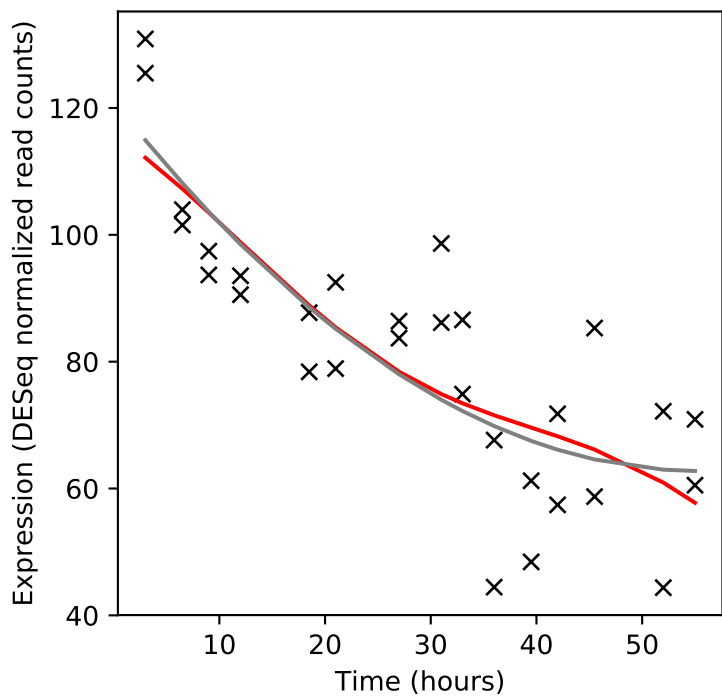
Rv2189c/-



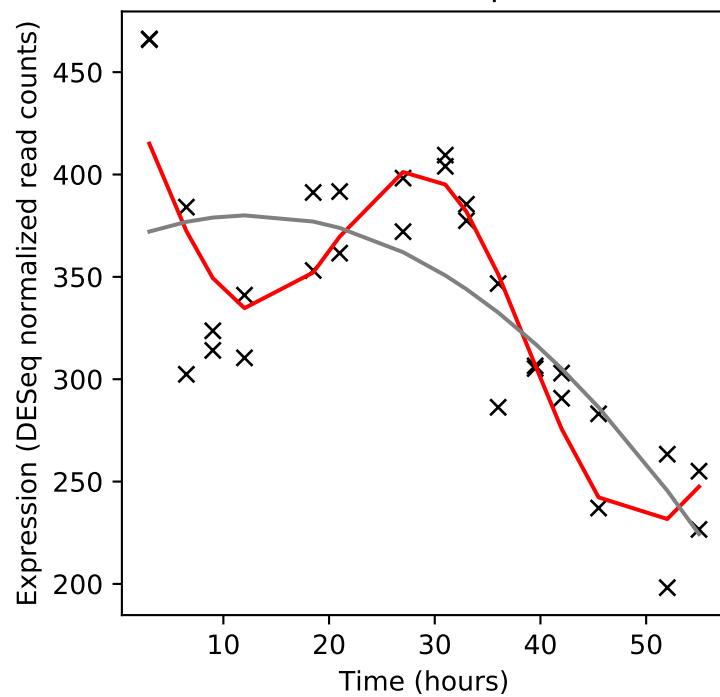
Rv2190c/-



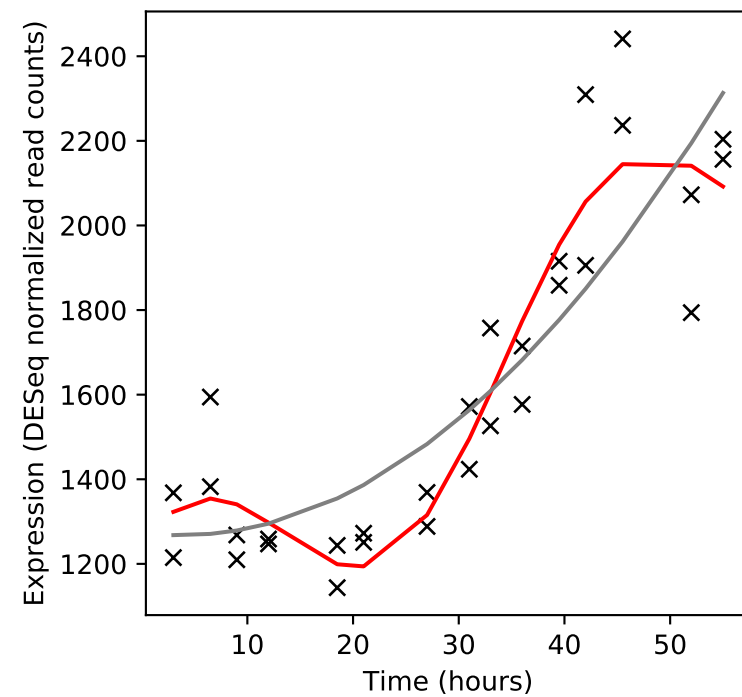
Rv2191c/-



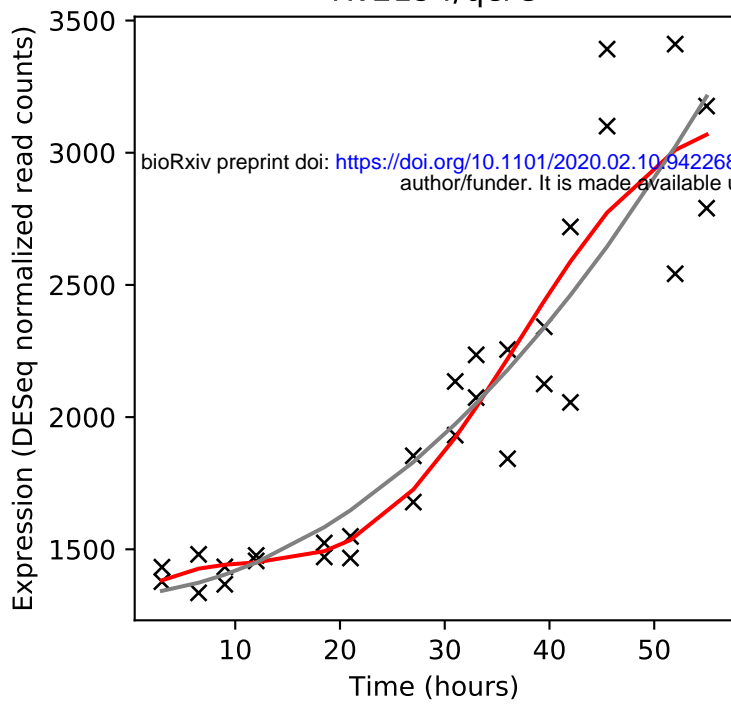
Rv2192c/trpD



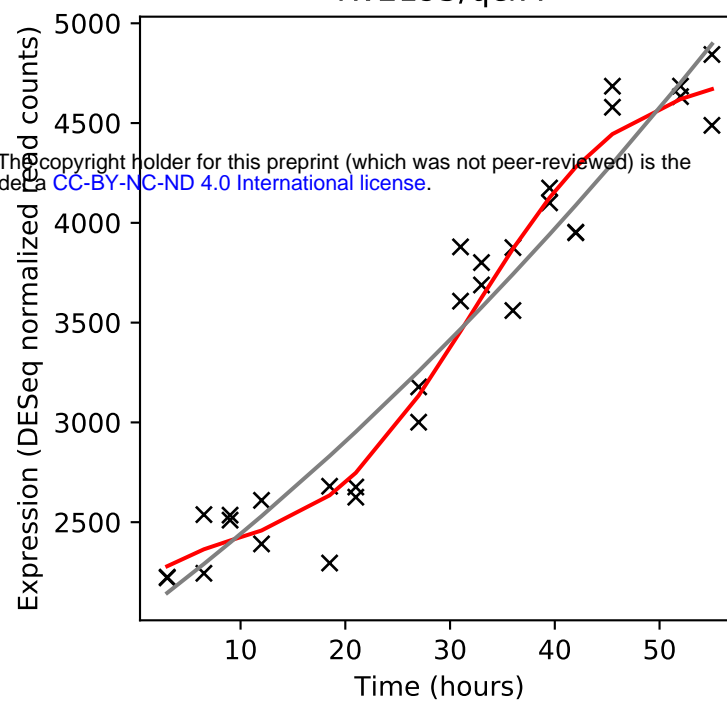
Rv2193/ctaE



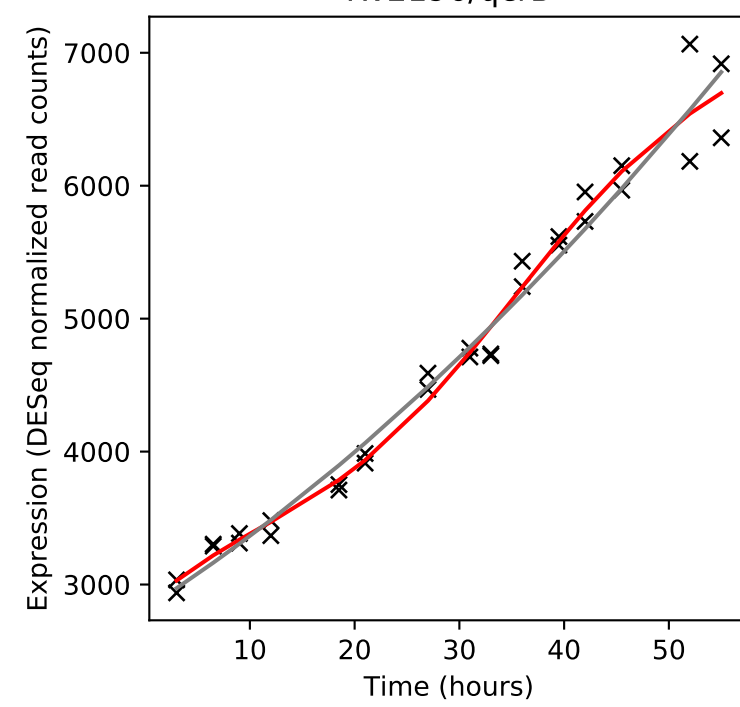
Rv2194/qcrC



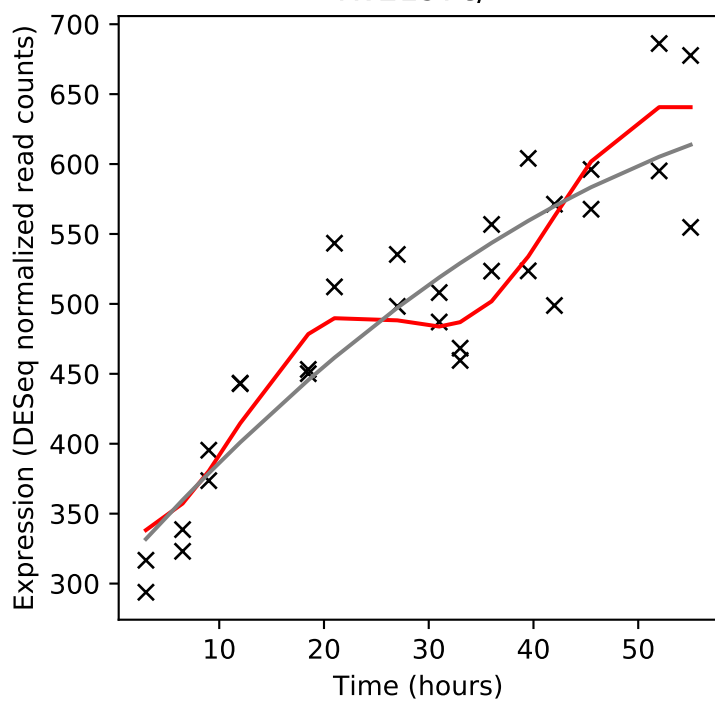
Rv2195/qcrA



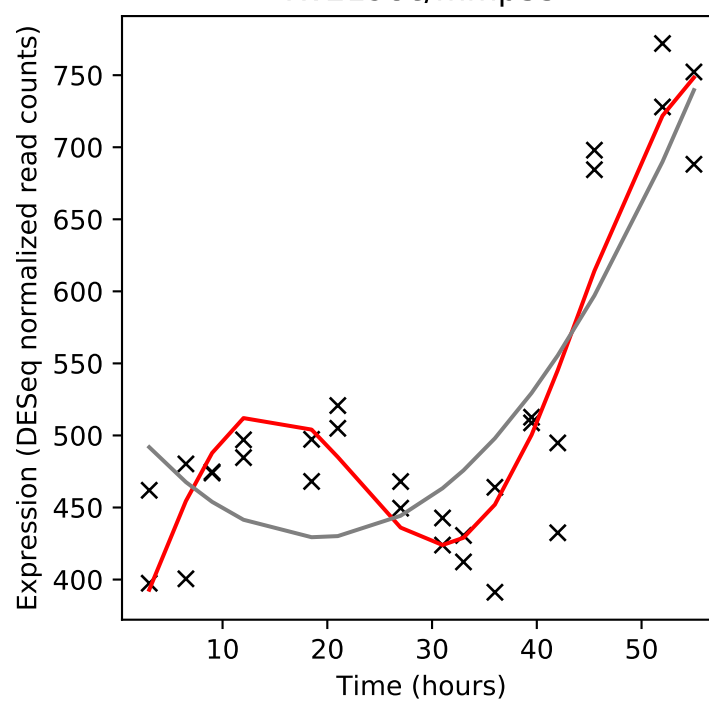
Rv2196/qcrB



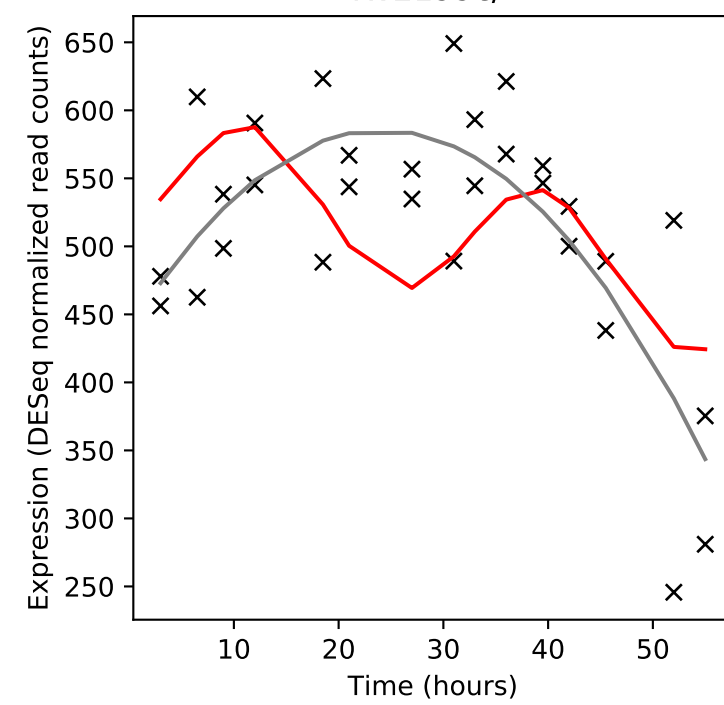
Rv2197c/-



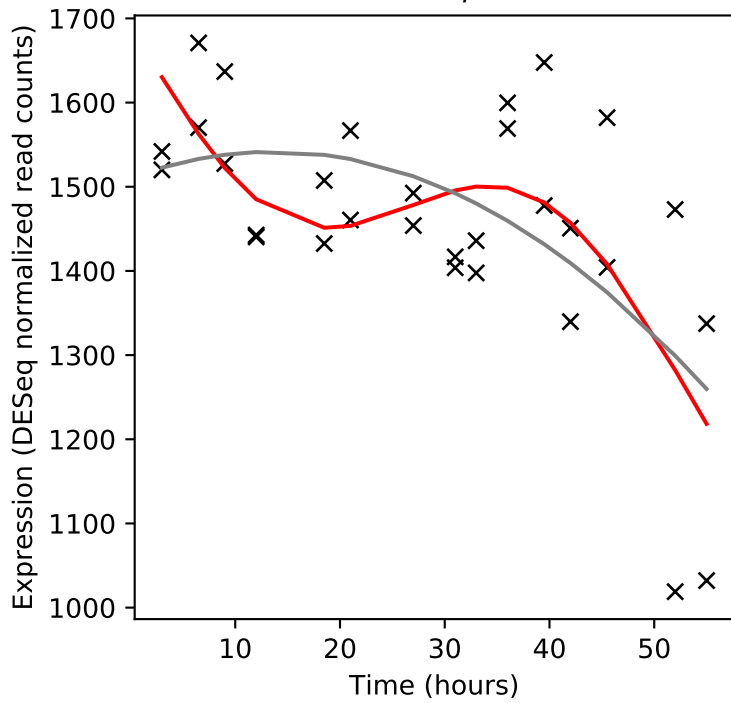
Rv2198c/mmpS3



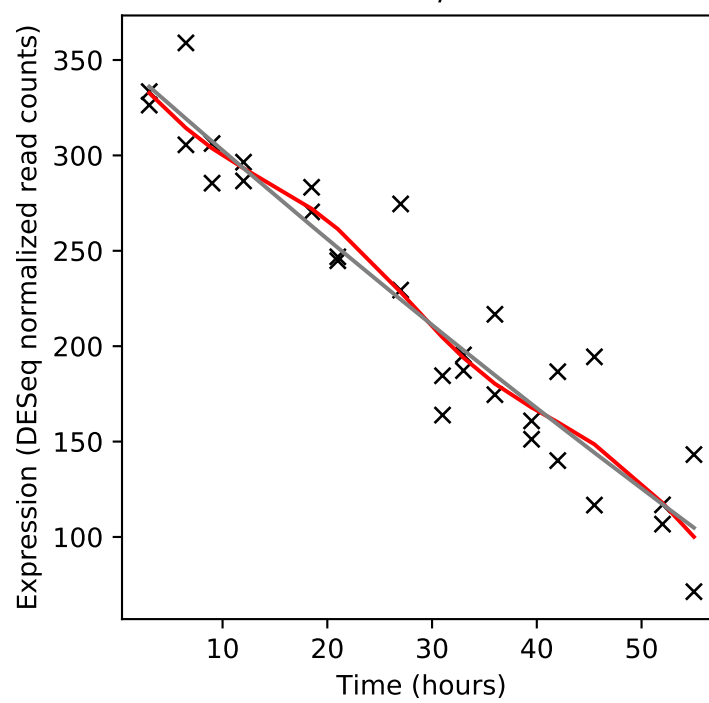
Rv2199c/-



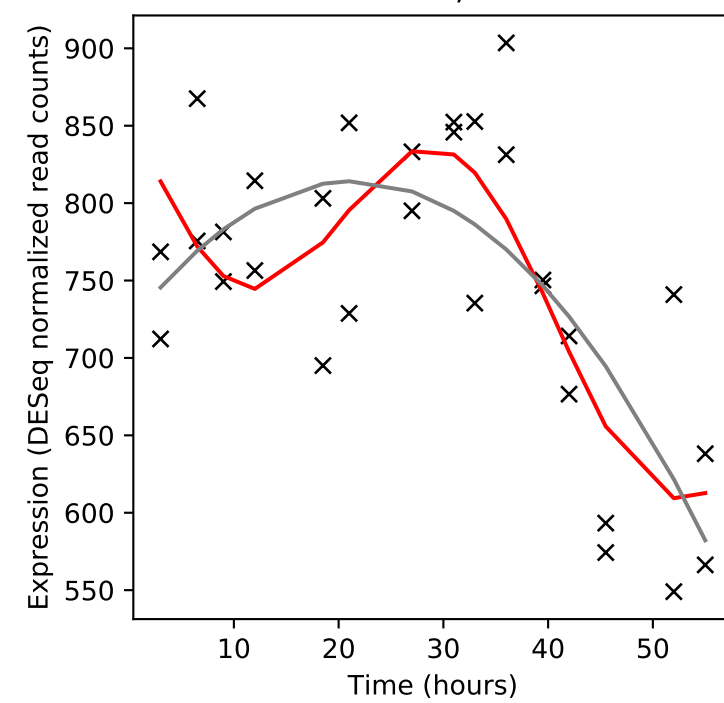
Rv2200c/ctaC



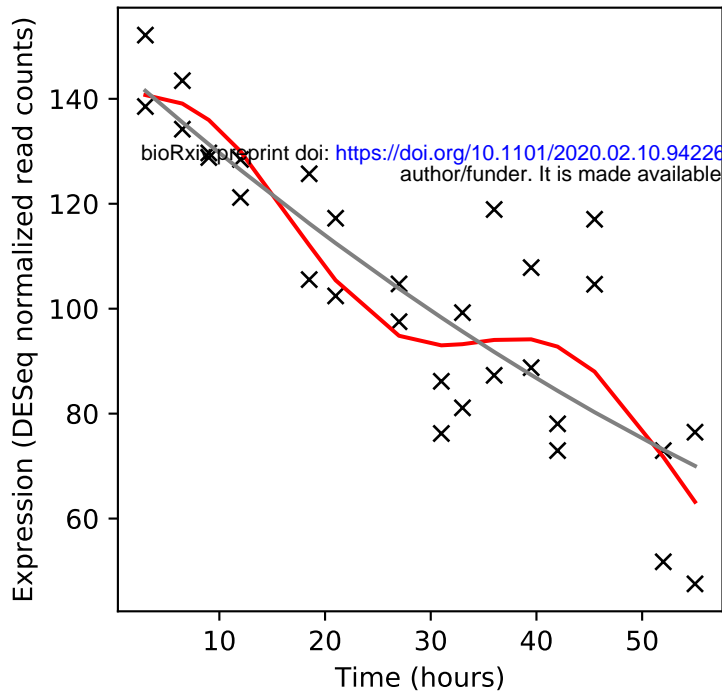
Rv2201/asnB



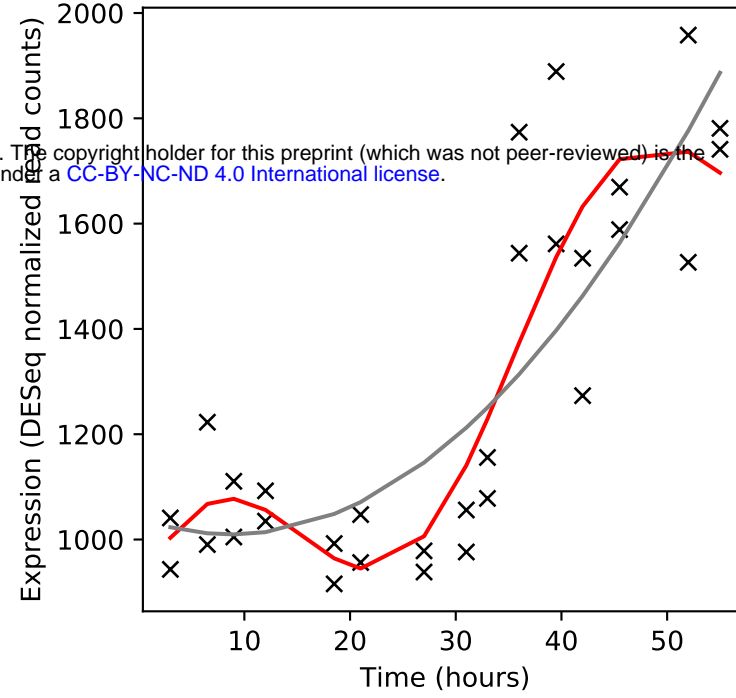
Rv2202c/adoK



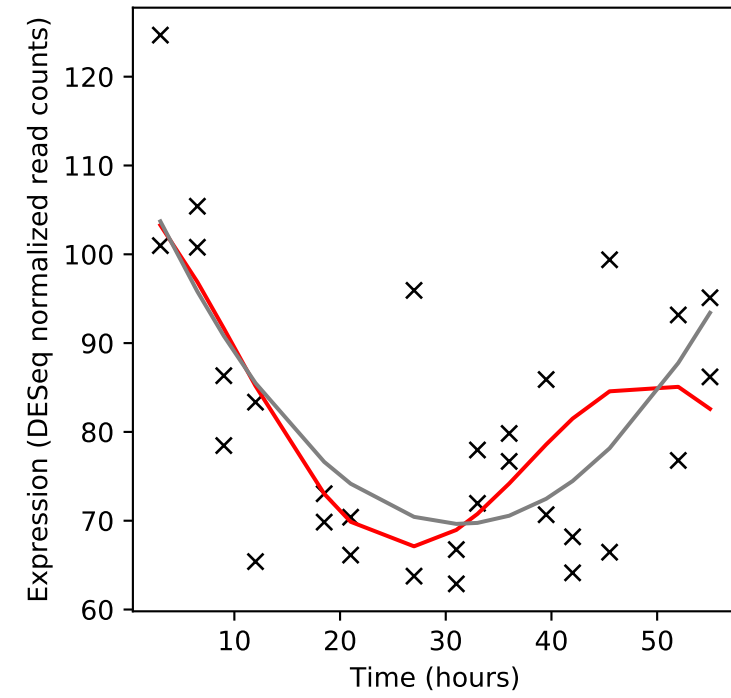
Rv2203/-



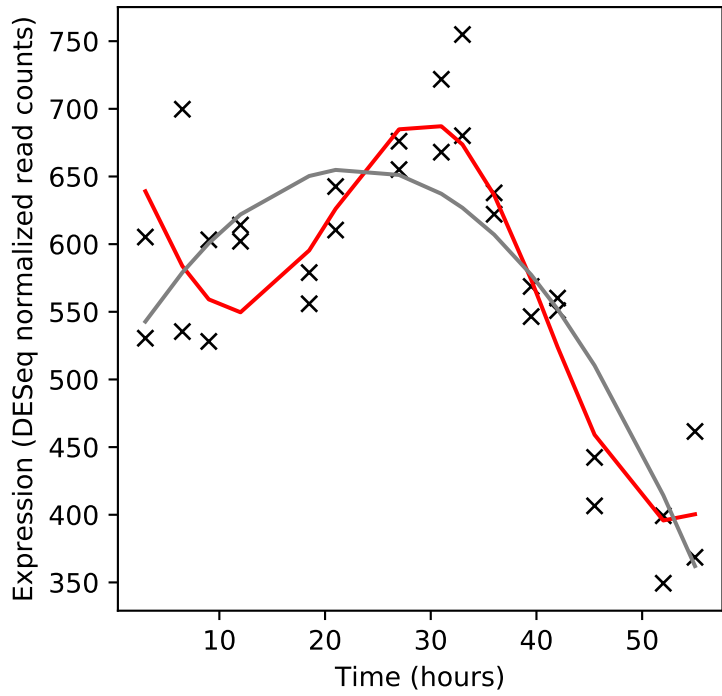
Rv2204c/-



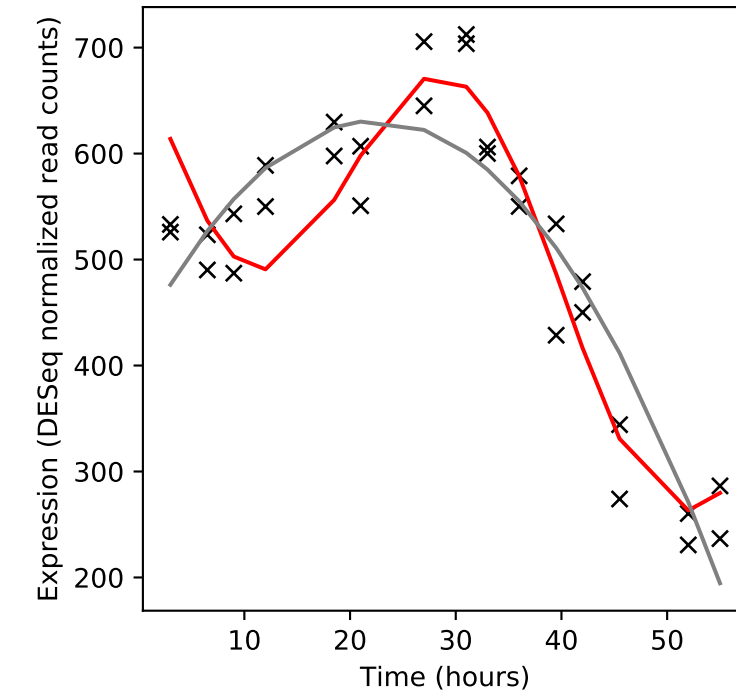
Rv2205c/-



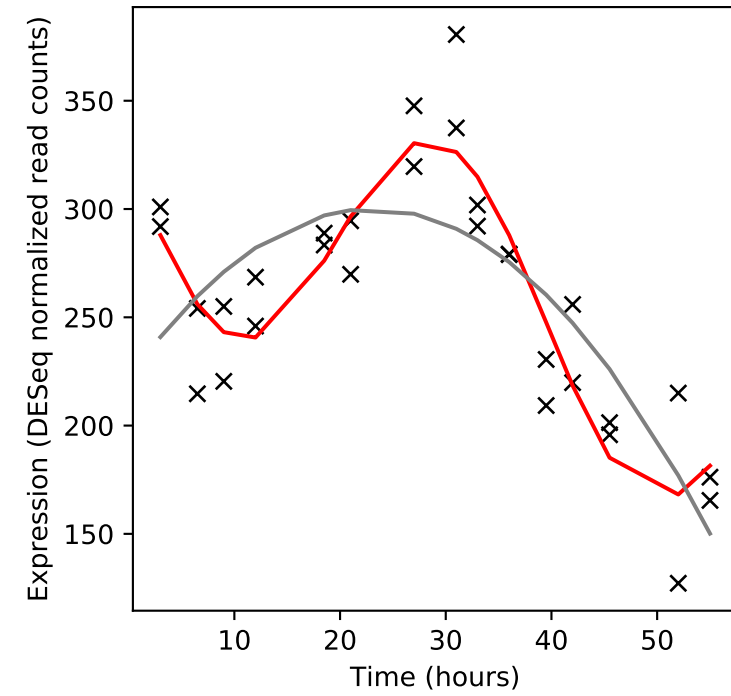
Rv2206/-



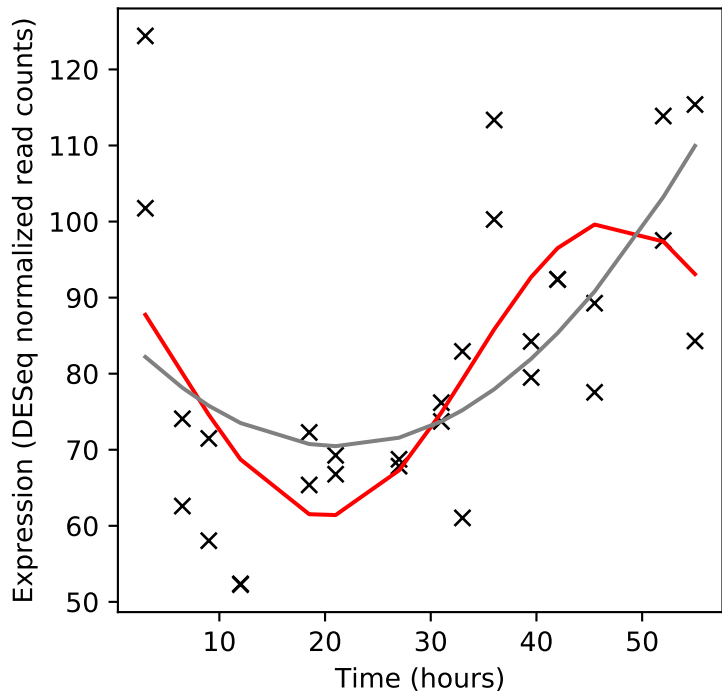
Rv2207/cobT



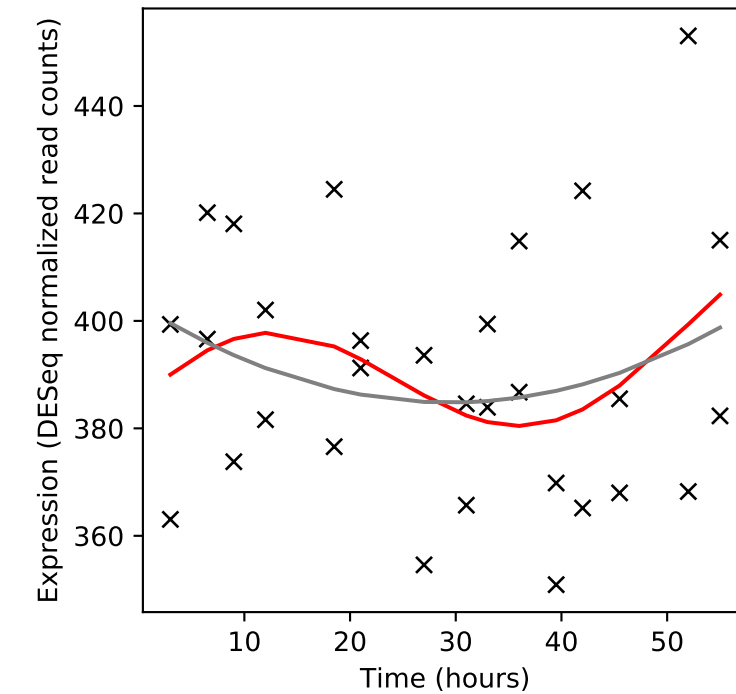
Rv2208/cobS



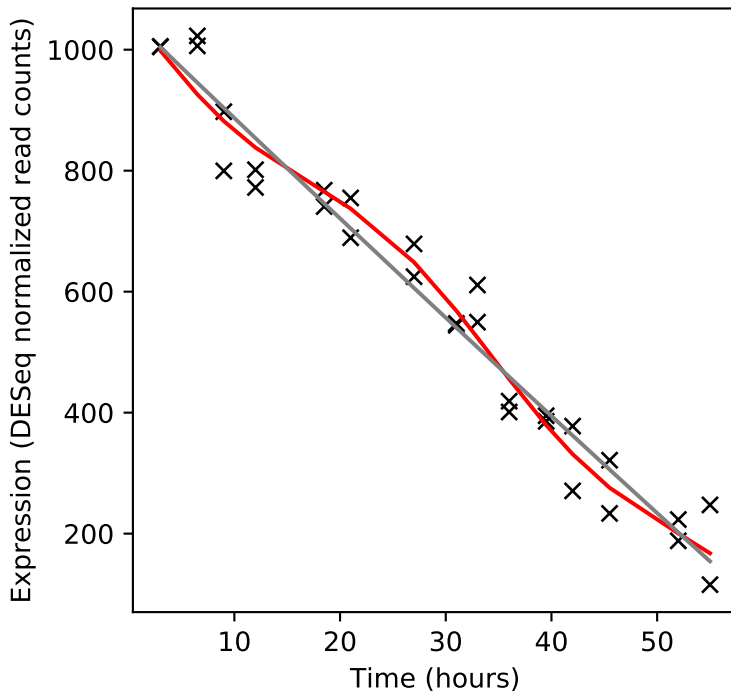
Rv2209/-



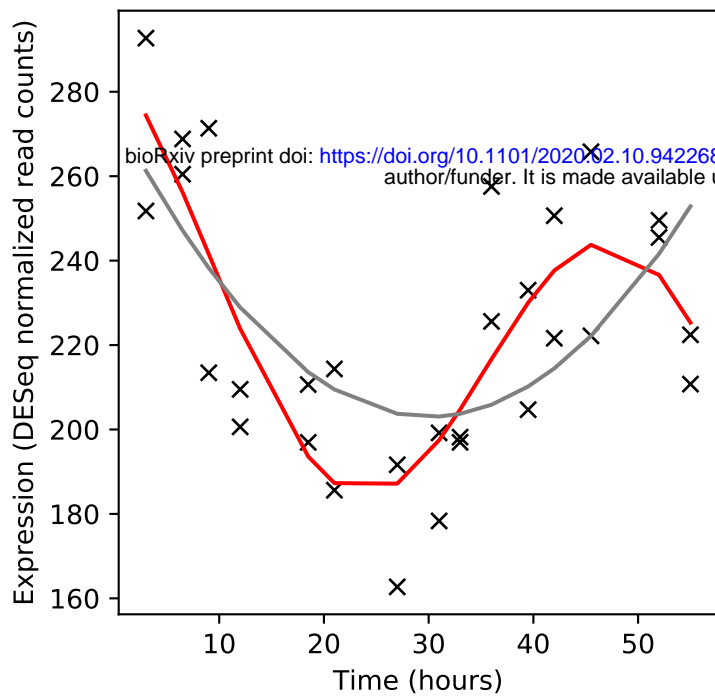
Rv2210c/ilvE



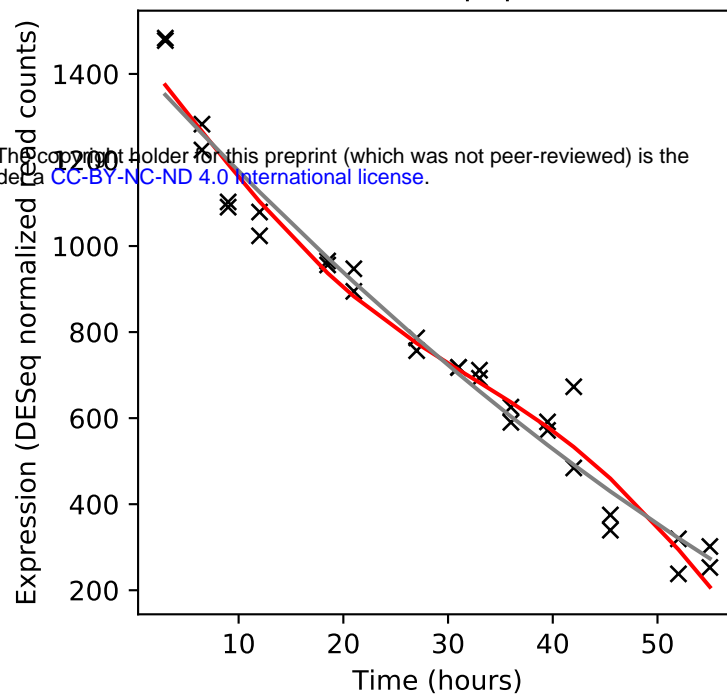
Rv2211c/gcvT



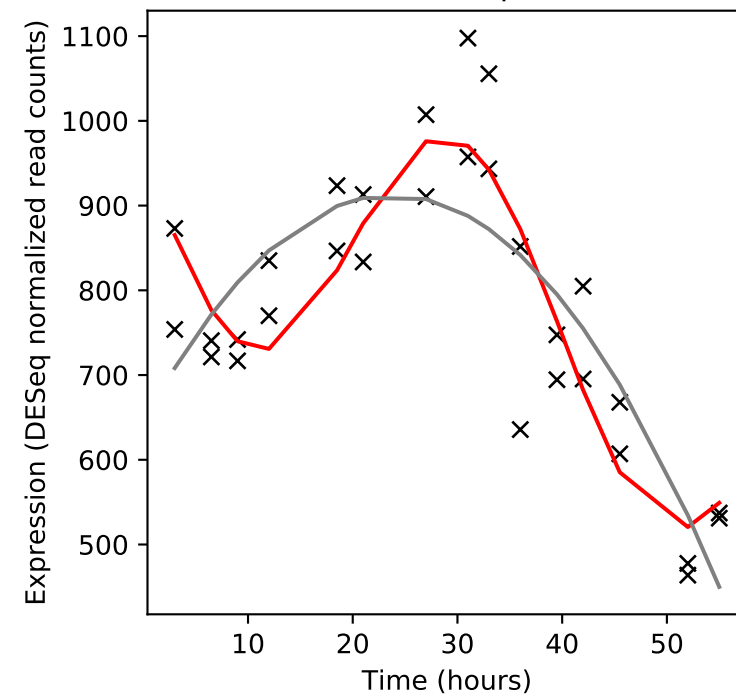
Rv2212/-



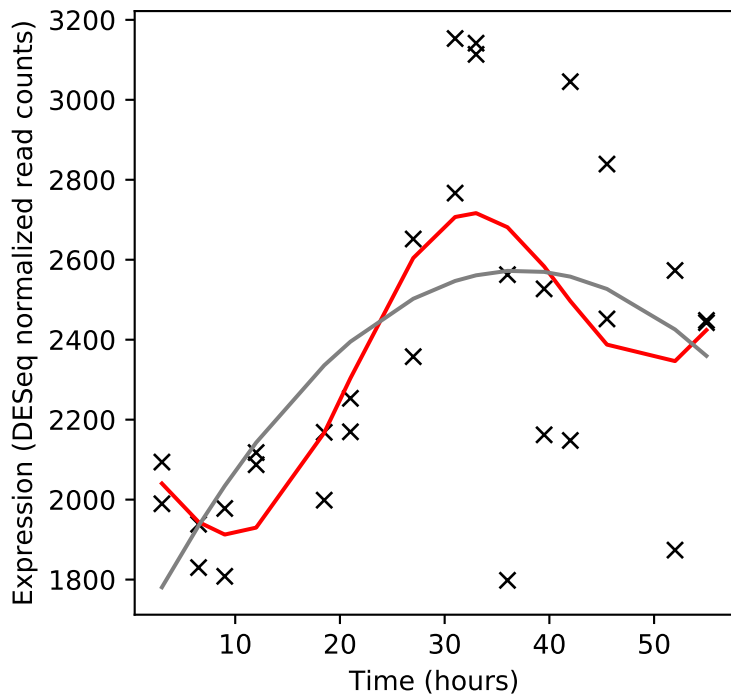
Rv2213/pepB



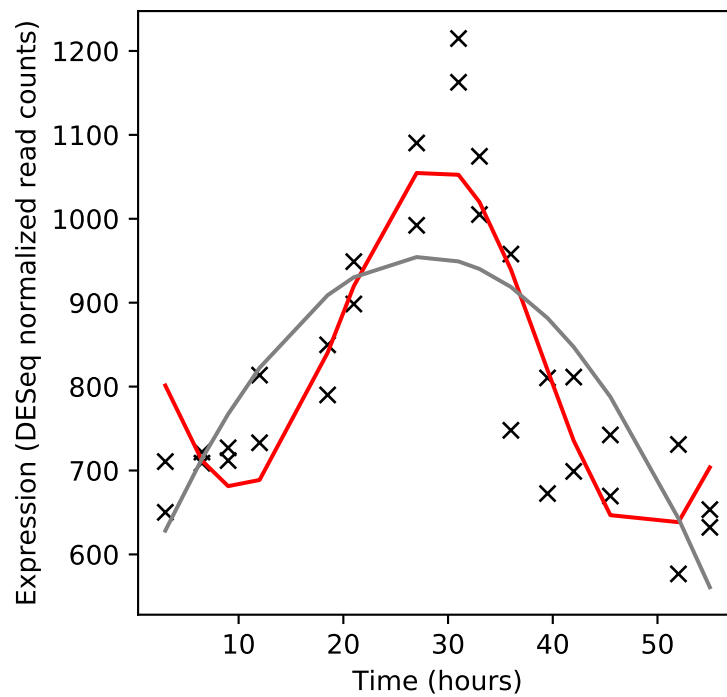
Rv2214c/ephD



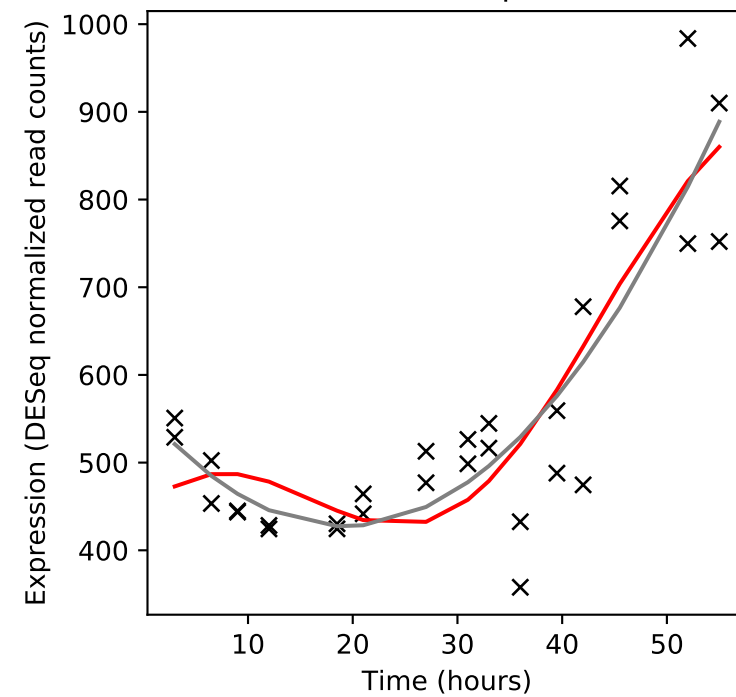
Rv2215/dlaT



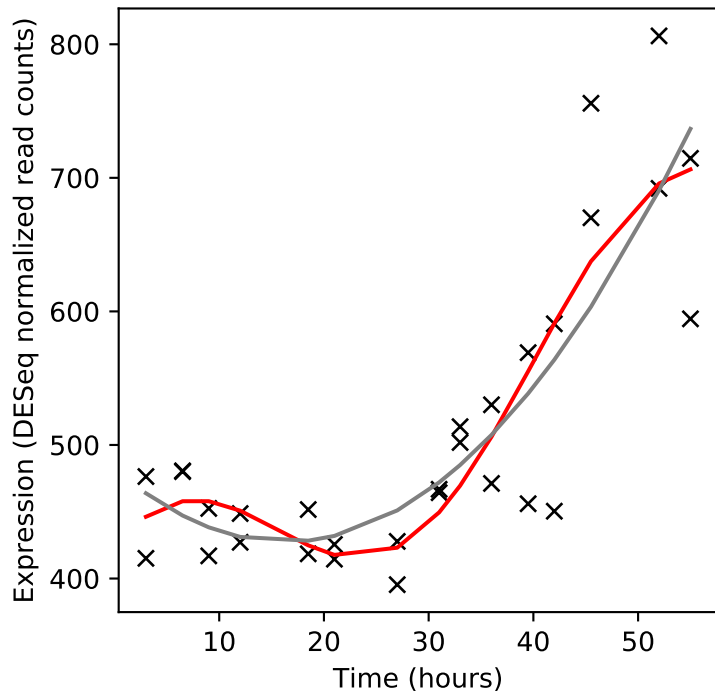
Rv2216/-



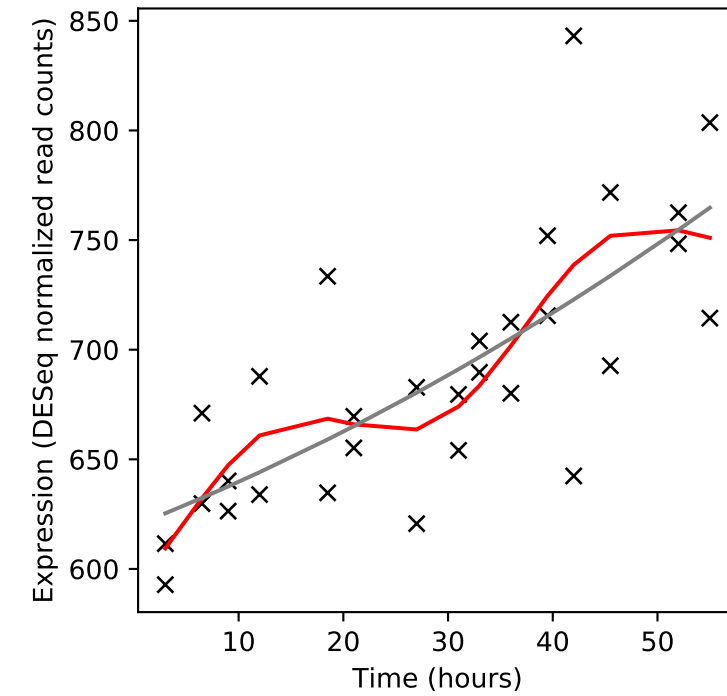
Rv2217/lipB



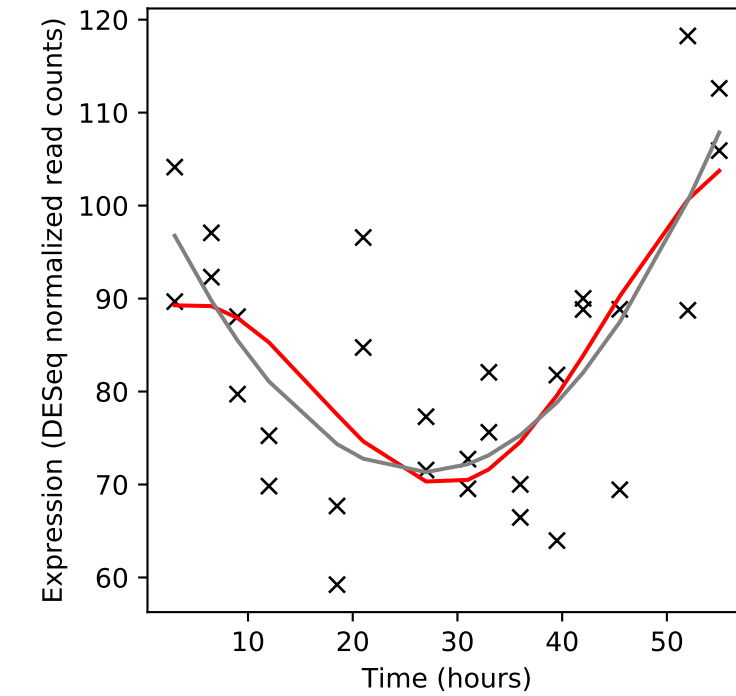
Rv2218/lipA



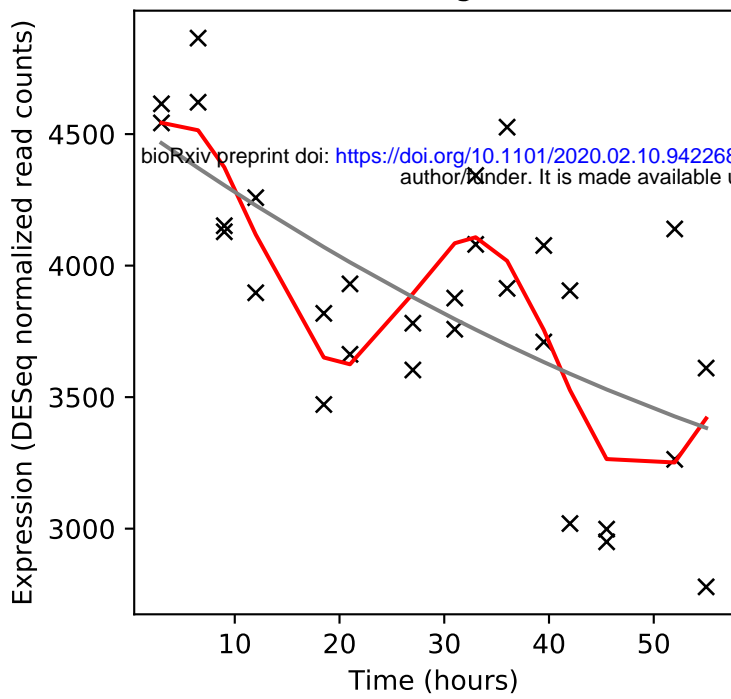
Rv2219/-



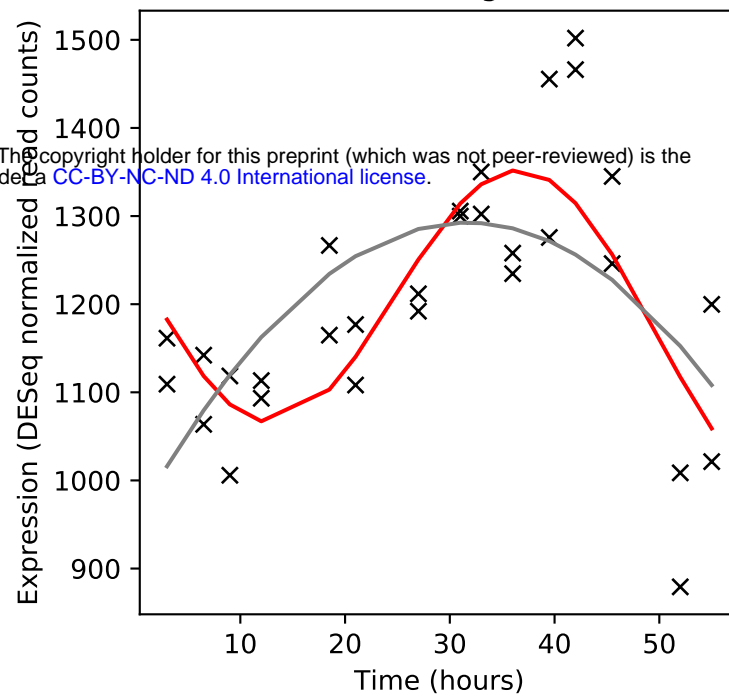
Rv2219A/-



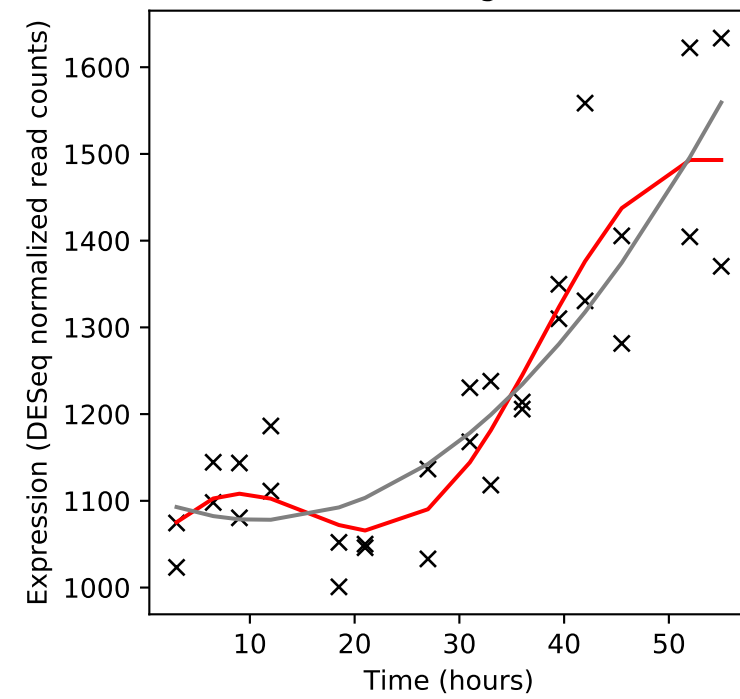
Rv2220/glnA1



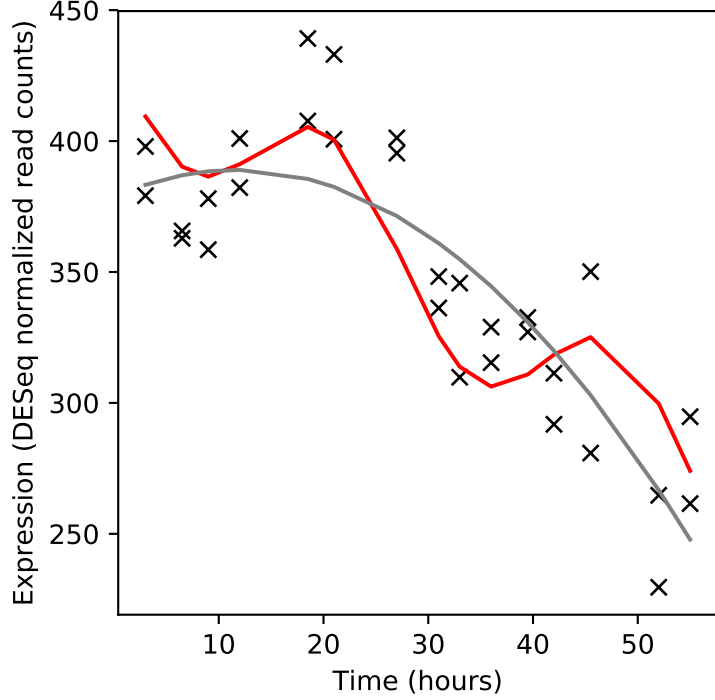
Rv2221c/glnE



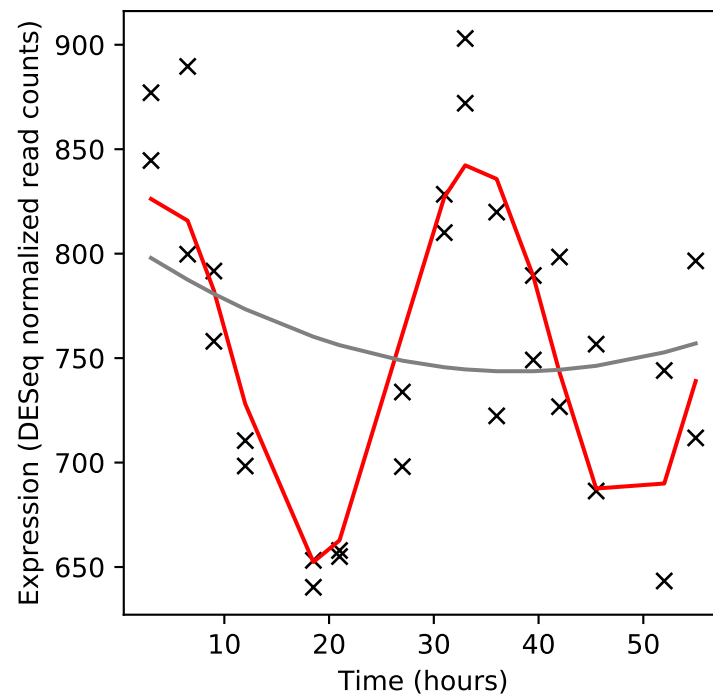
Rv2222c/glnA2



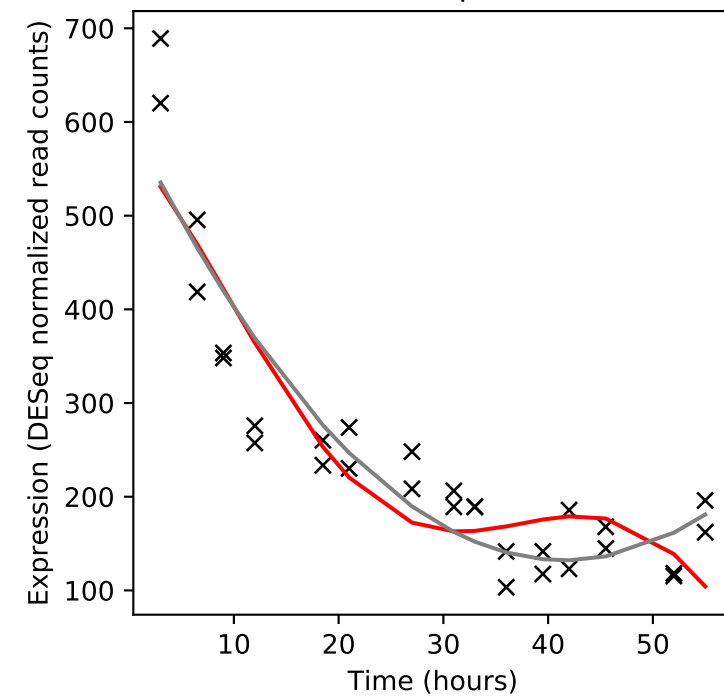
Rv2223c/-



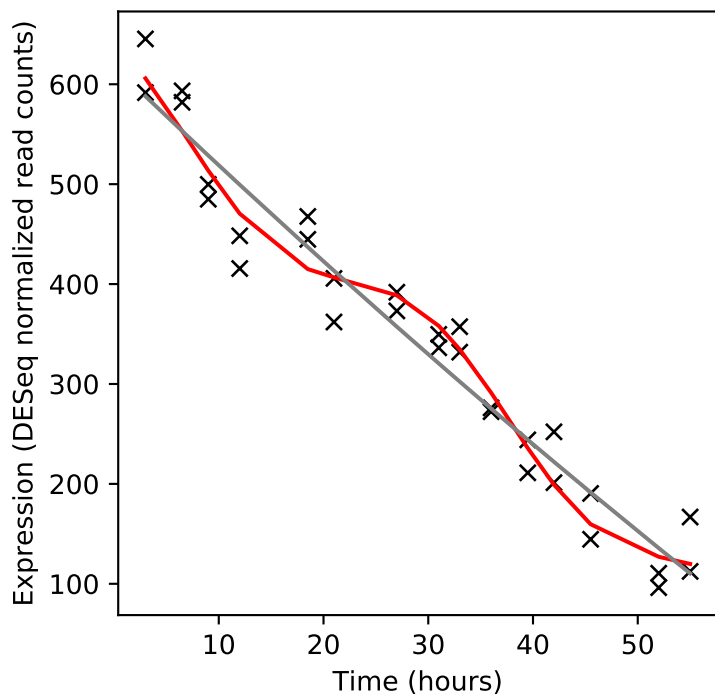
Rv2224c/caeA



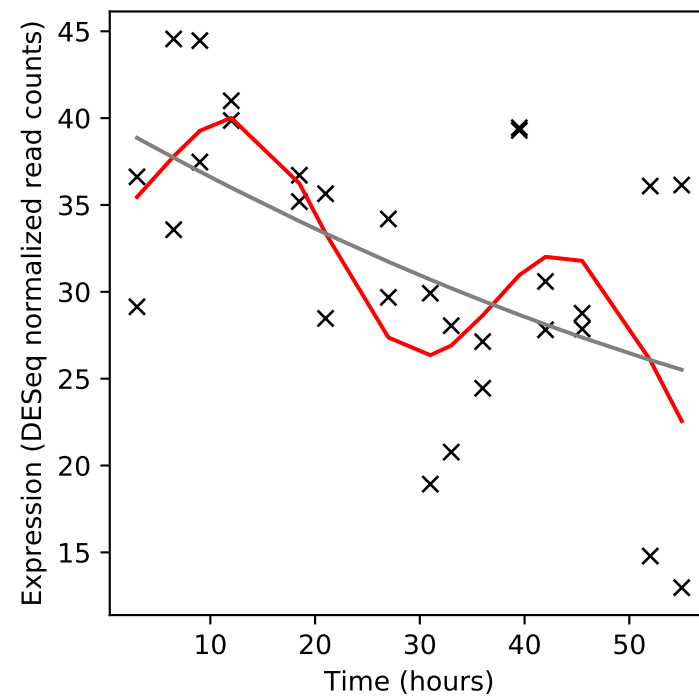
Rv2225/panB



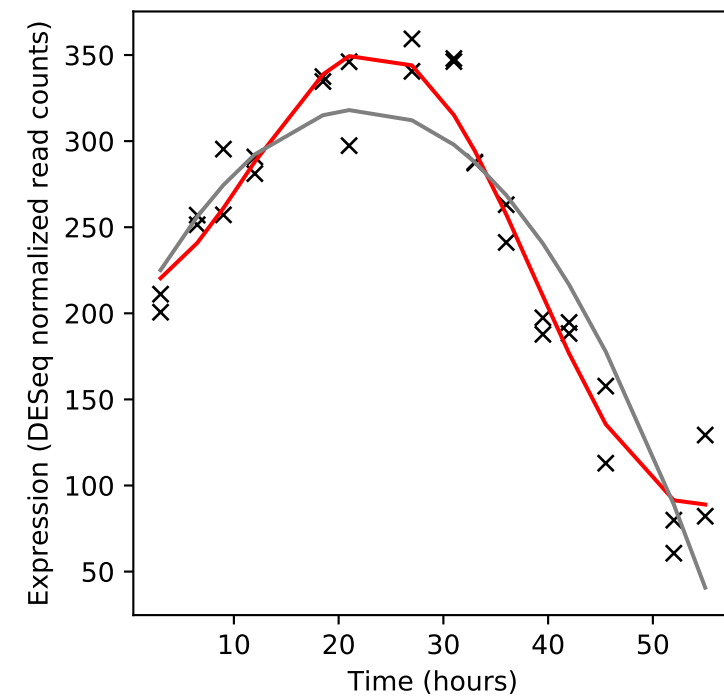
Rv2226/-



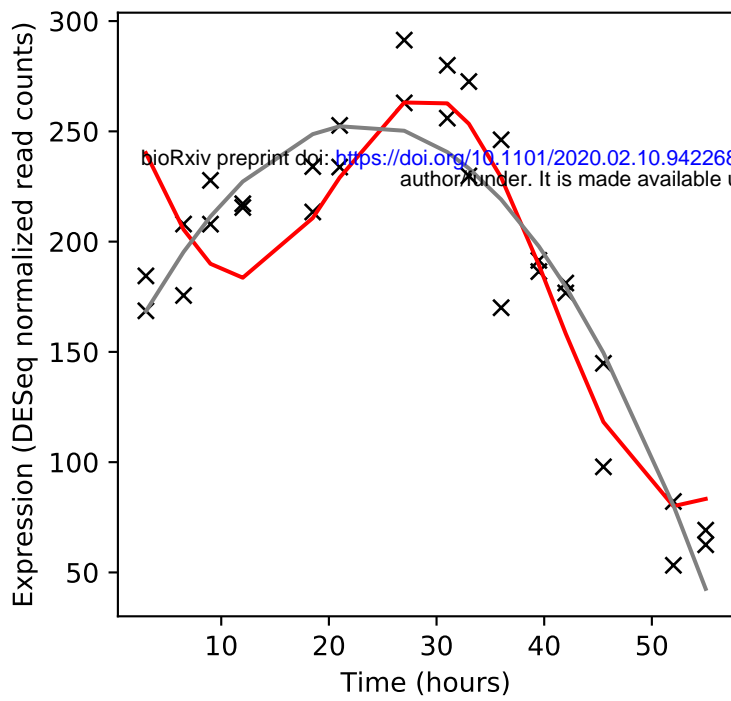
Rv2227/-



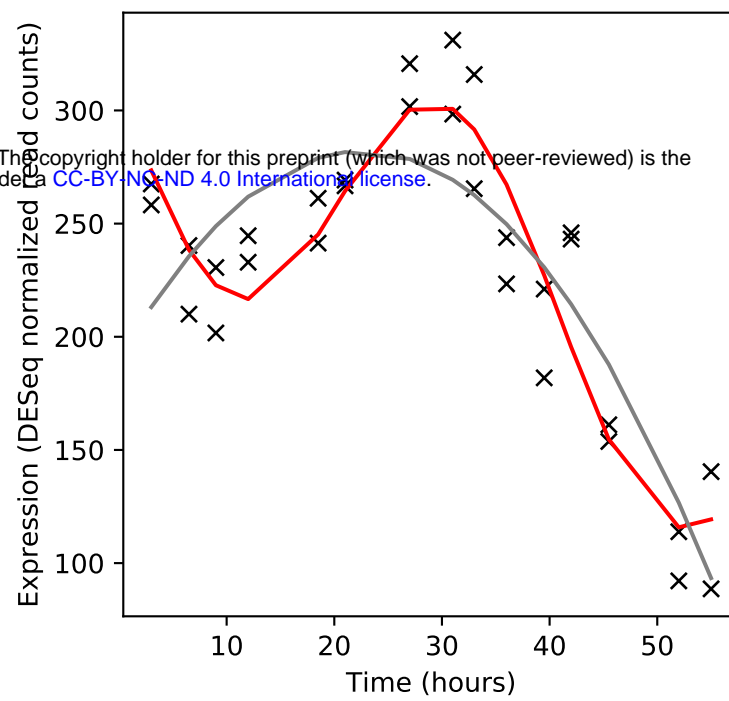
Rv2228c/-



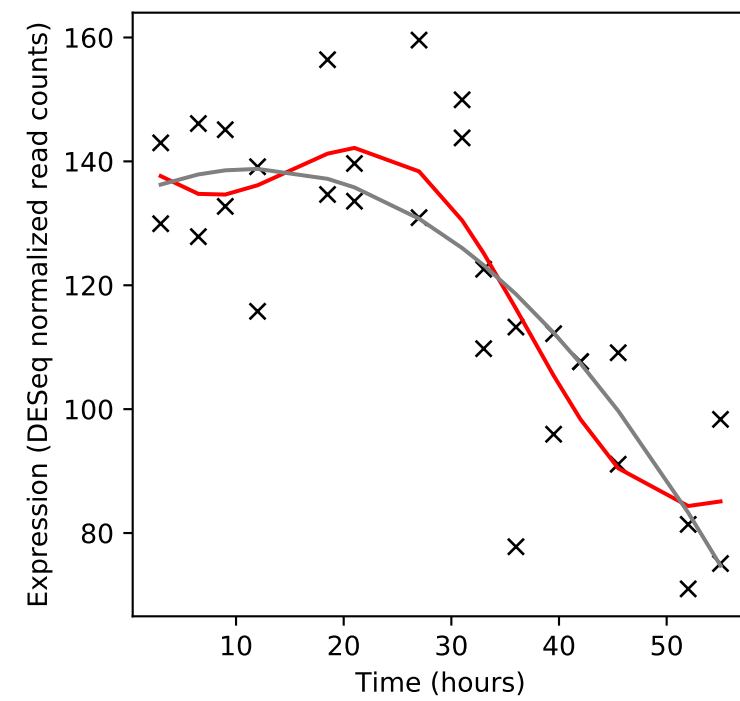
Rv2229c/-



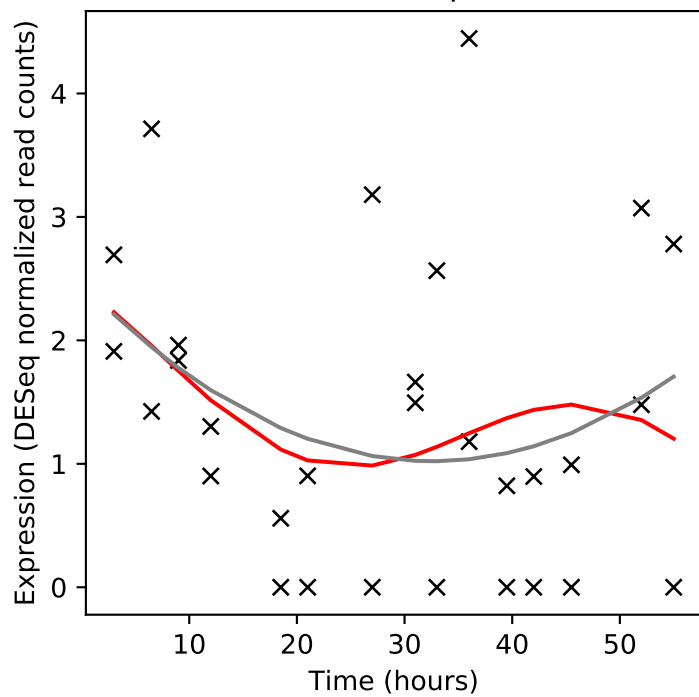
Rv2230c/-



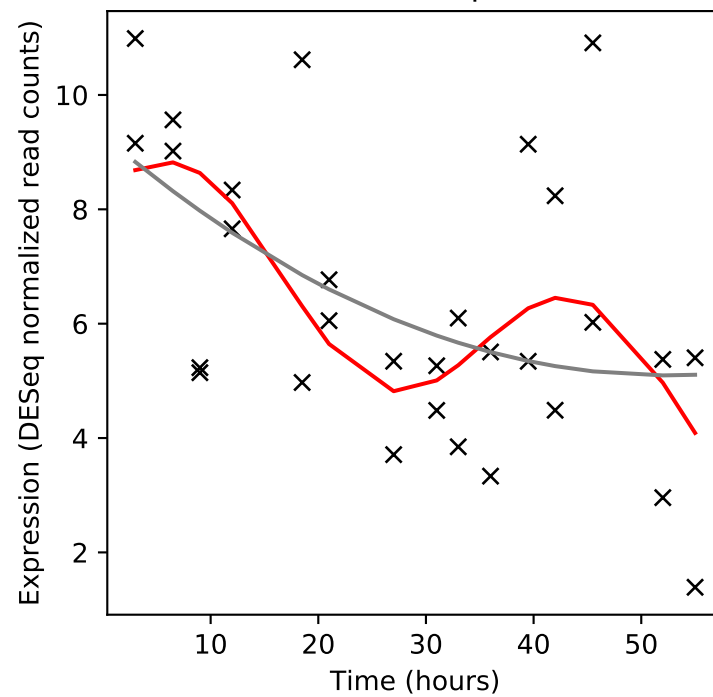
Rv2231c/cobC



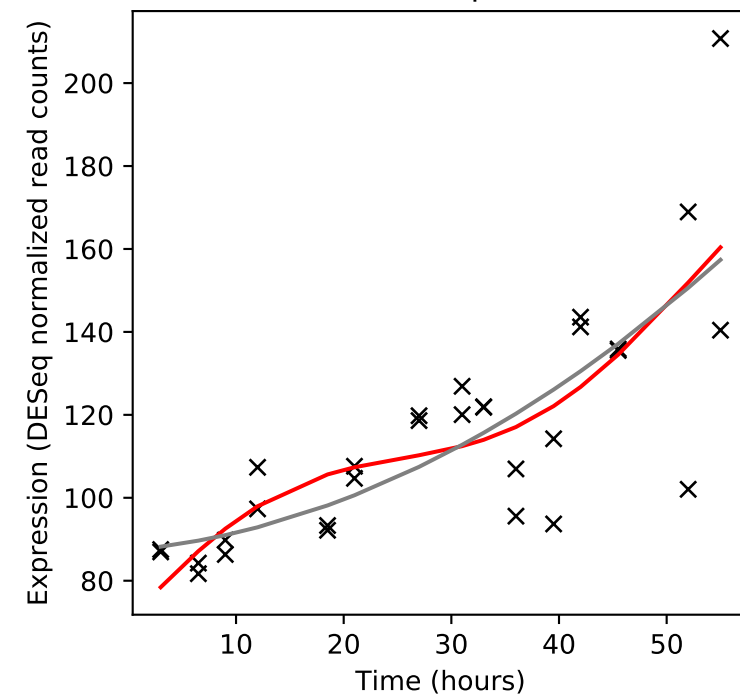
Rv2231A/vapC16



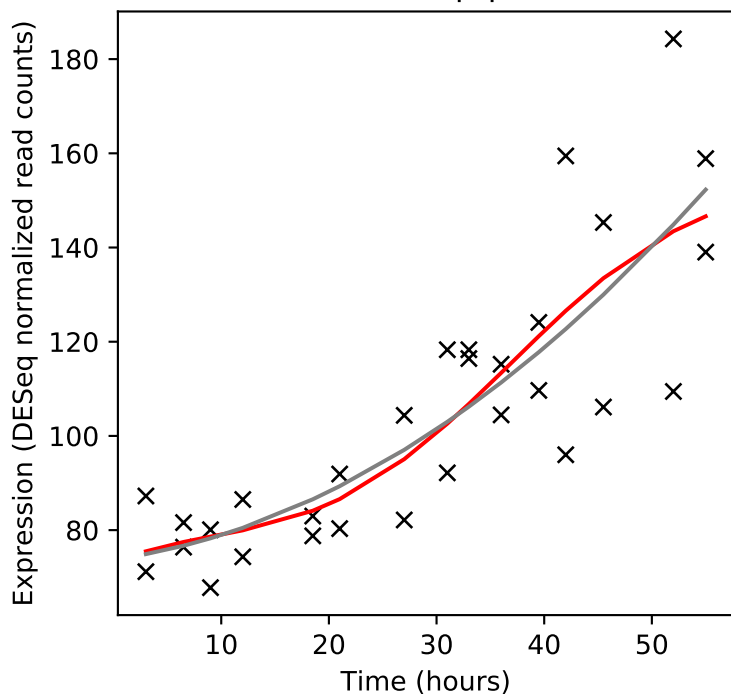
Rv2231B/vapB16



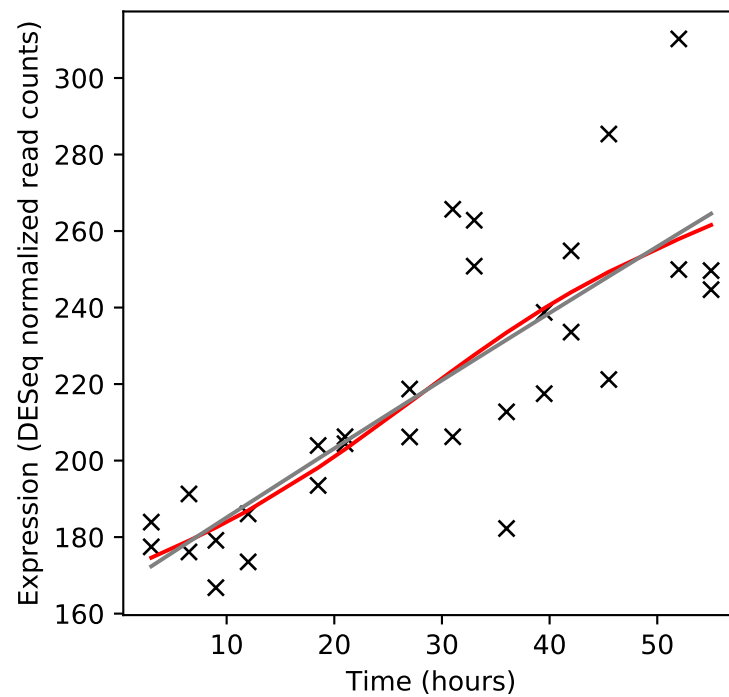
Rv2232/ptkA



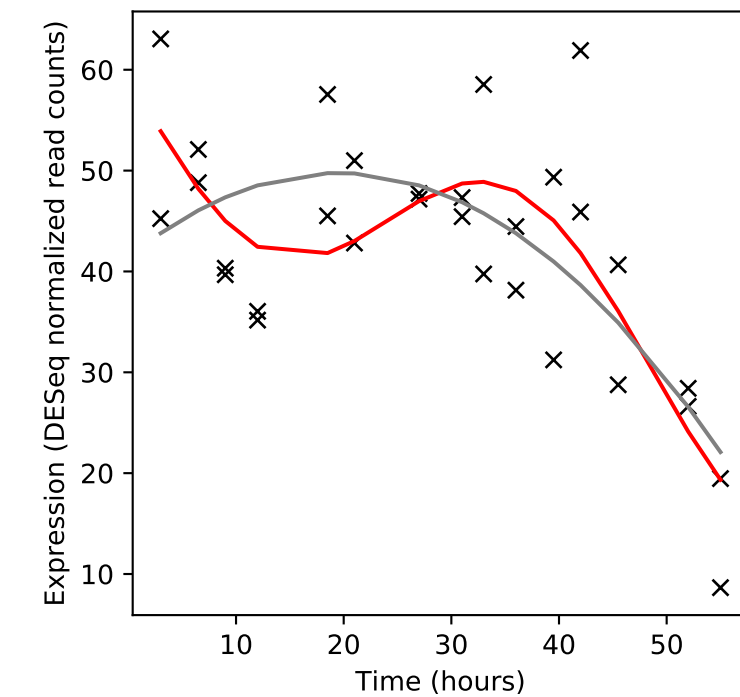
Rv2234/ptpA



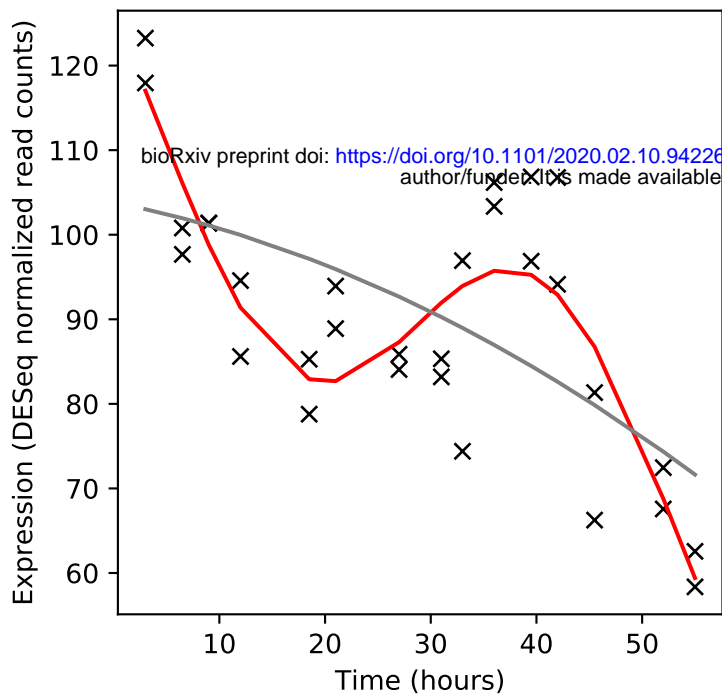
Rv2235/-



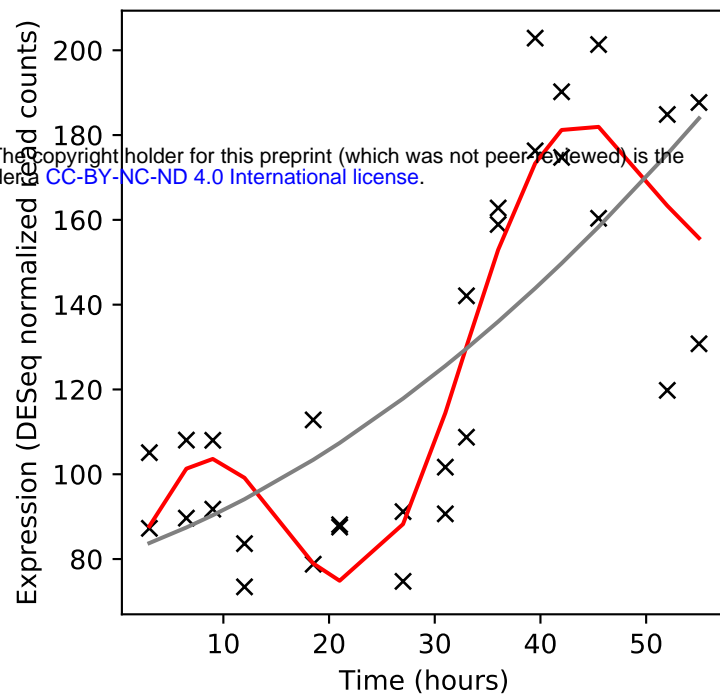
Rv2236c/cobD



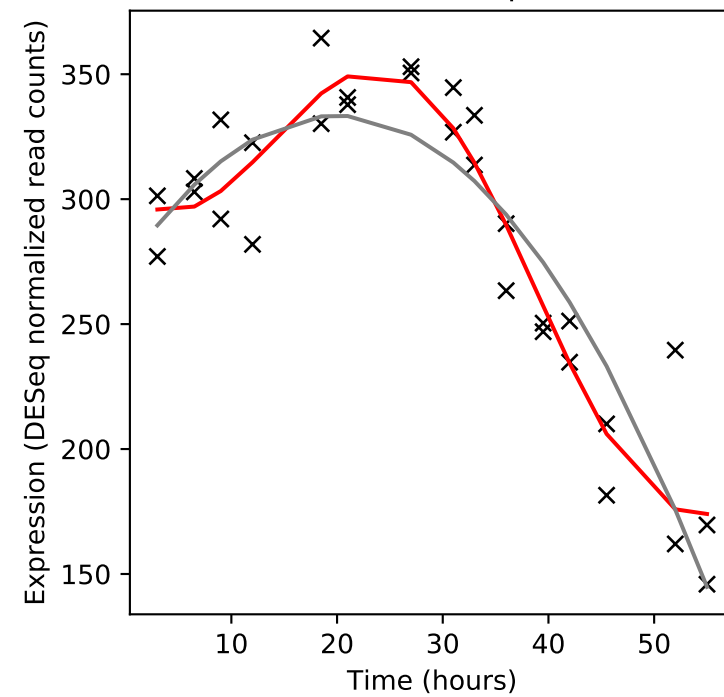
Rv2237/-



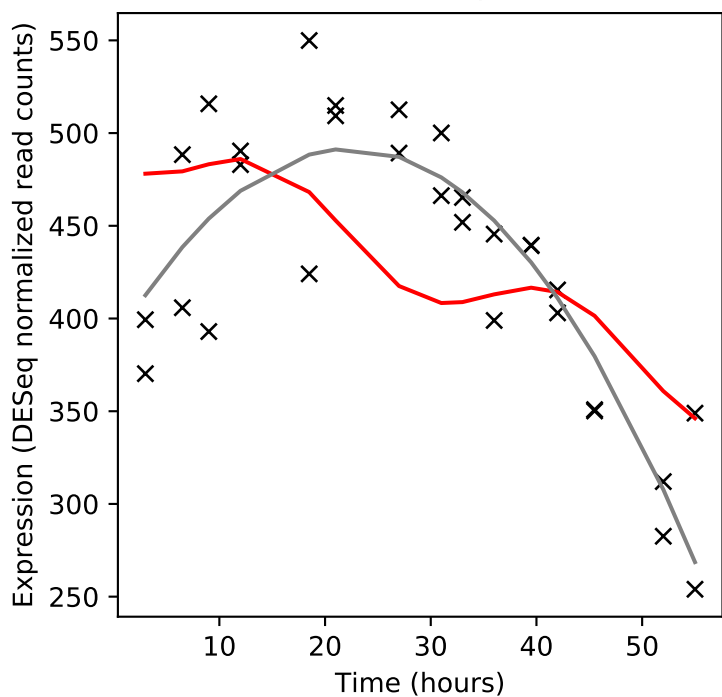
Rv2237A/-



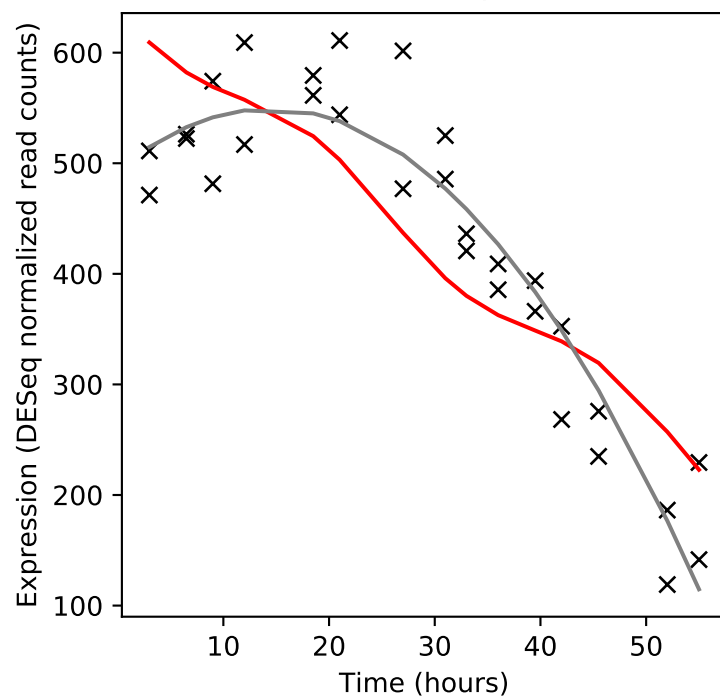
Rv2238c/ahpE



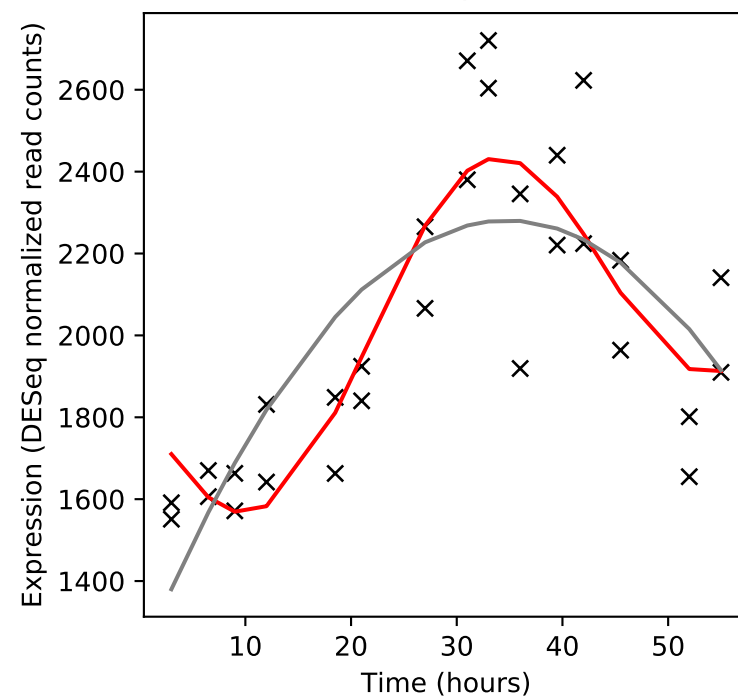
Rv2239c/-



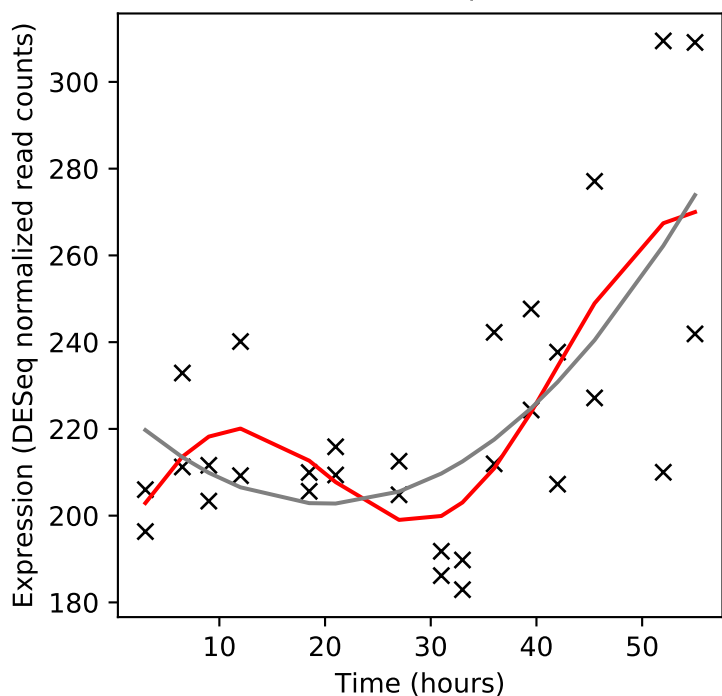
Rv2240c/-



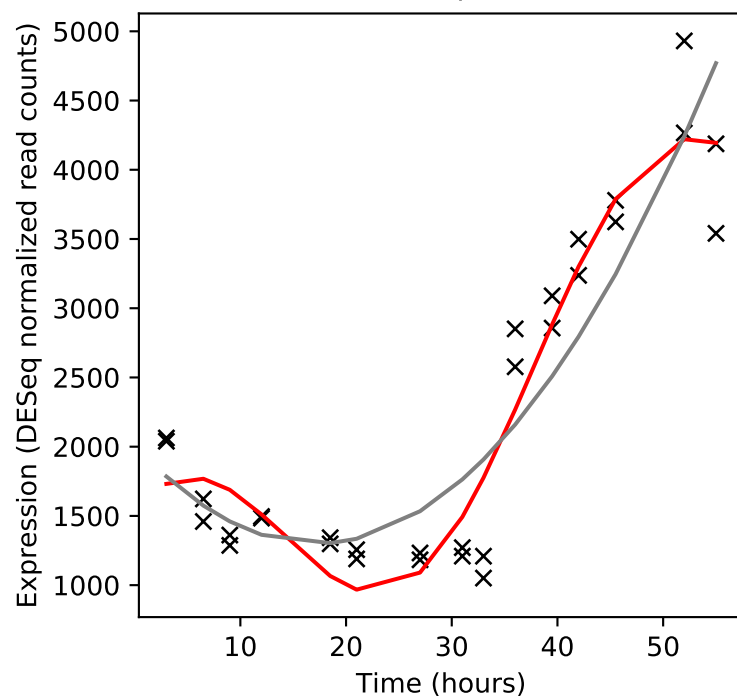
Rv2241/aceE



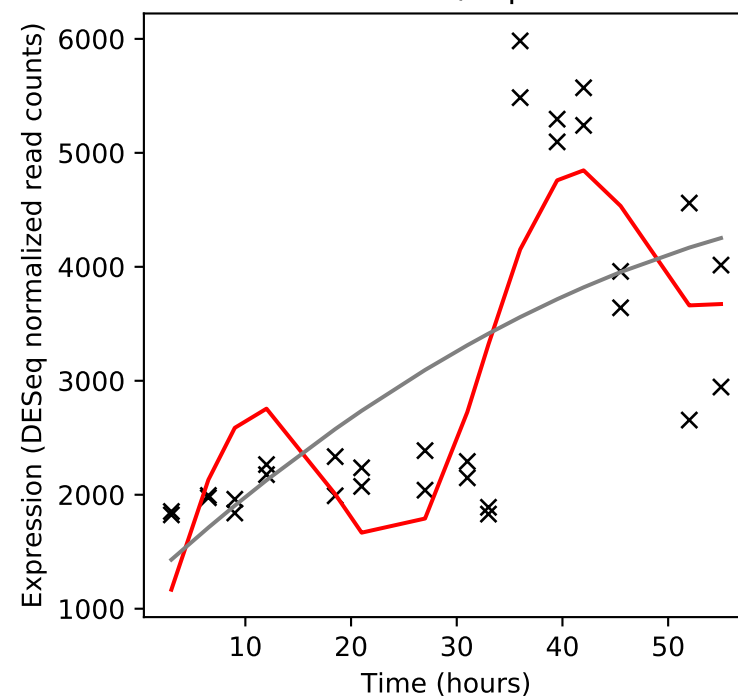
Rv2242/-



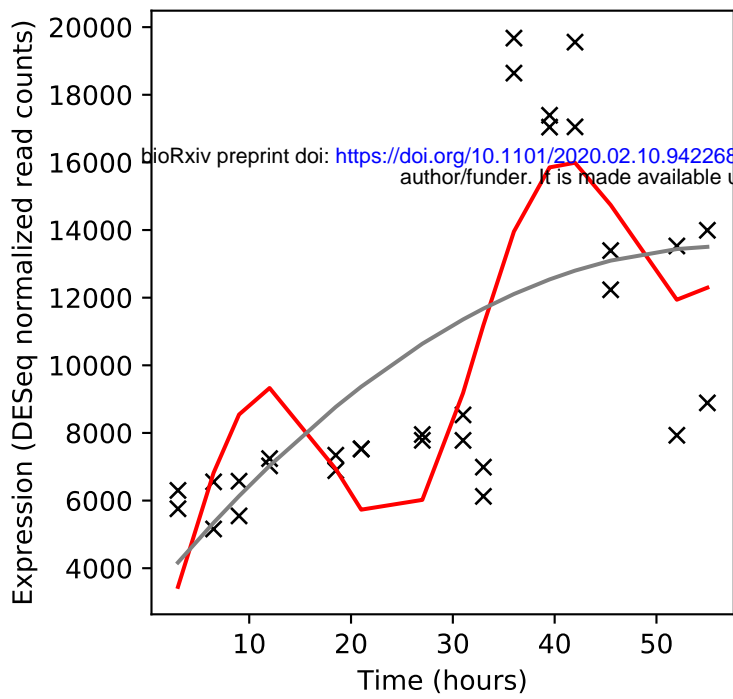
Rv2243/fabD



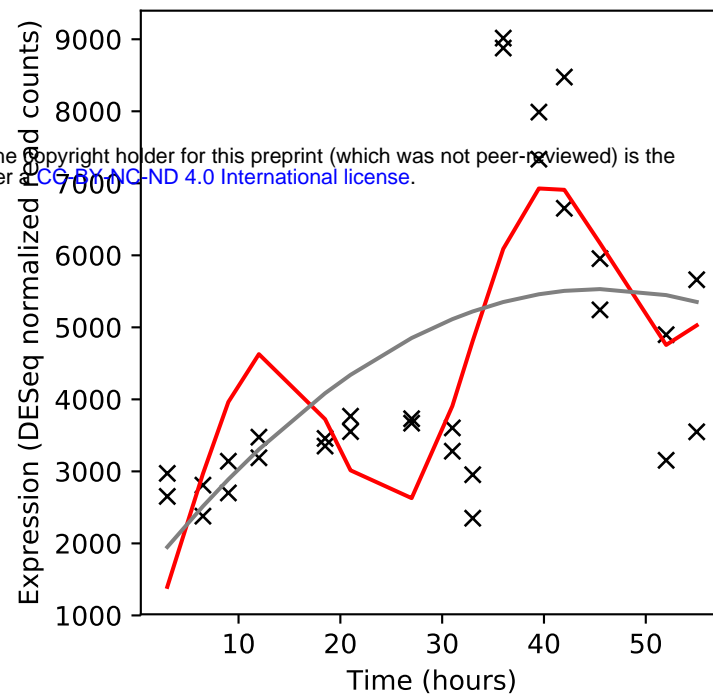
Rv2244/acpM



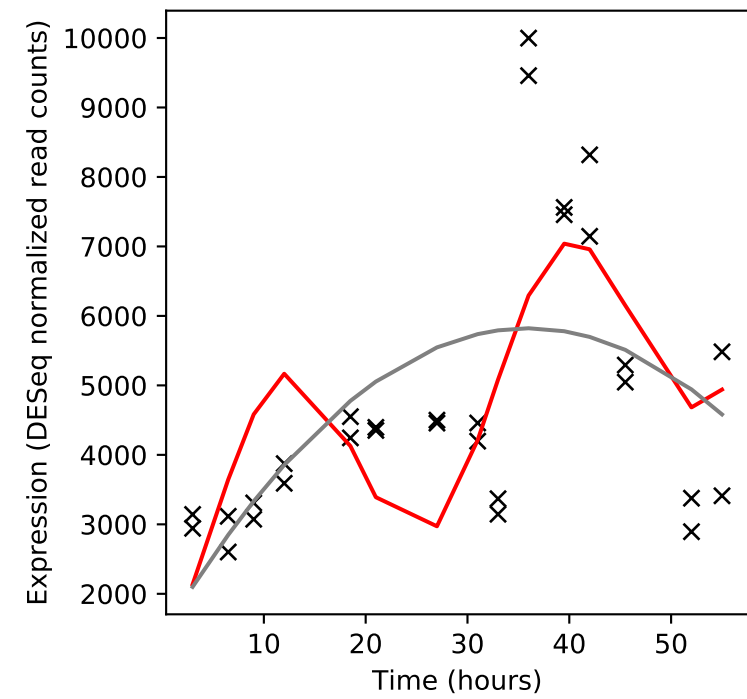
Rv2245/kasA



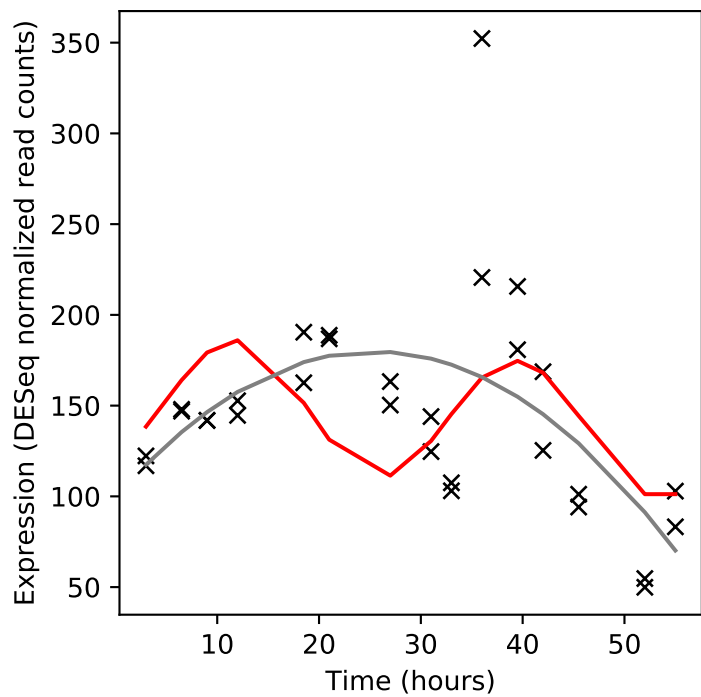
Rv2246/kasB



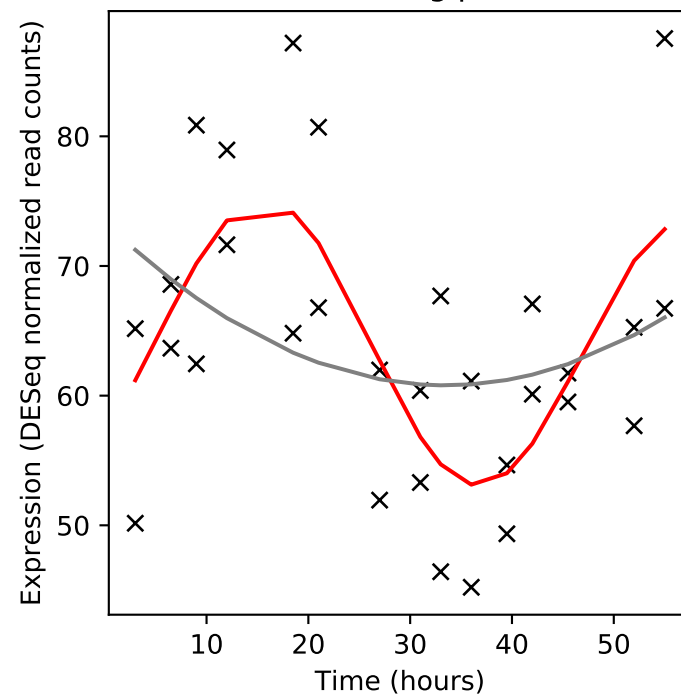
Rv2247/accD6



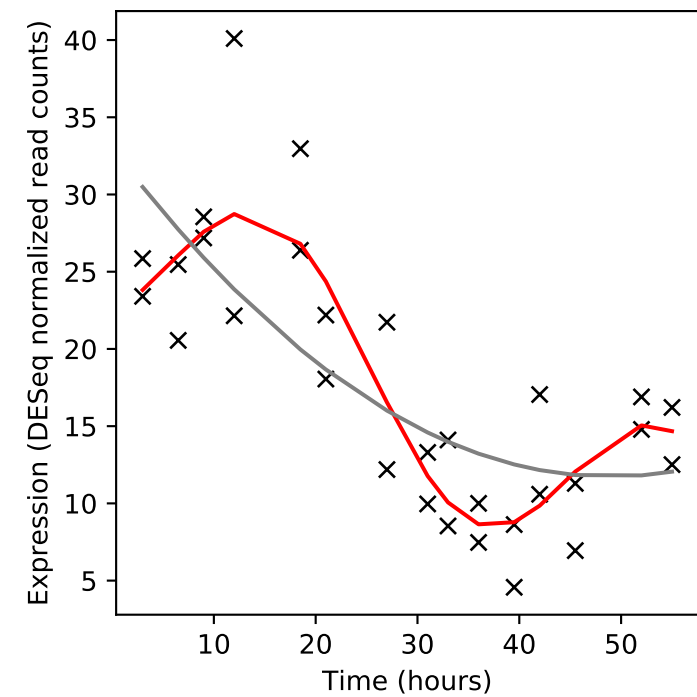
Rv2248/-



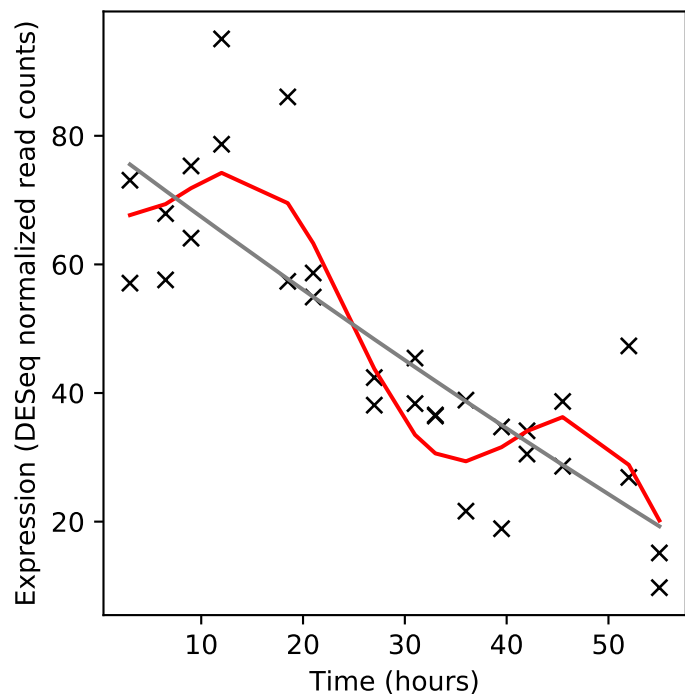
Rv2249c/glpD1



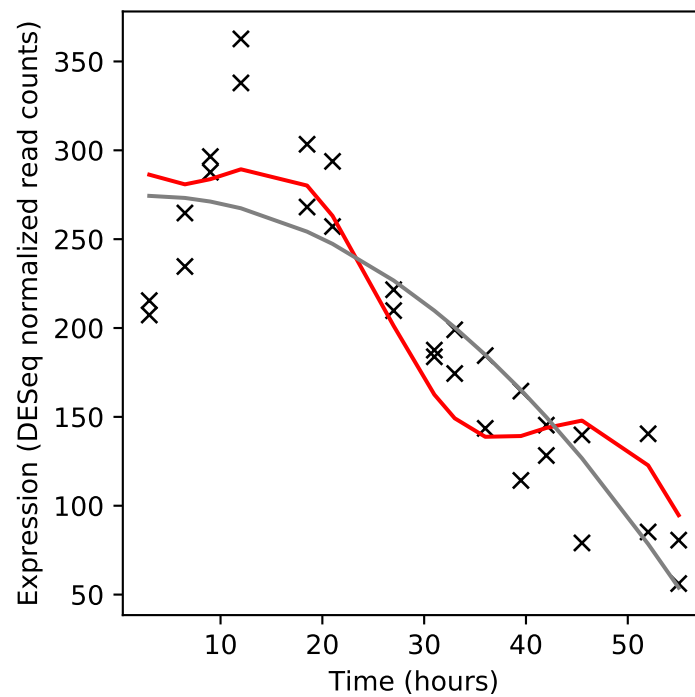
Rv2250c/-



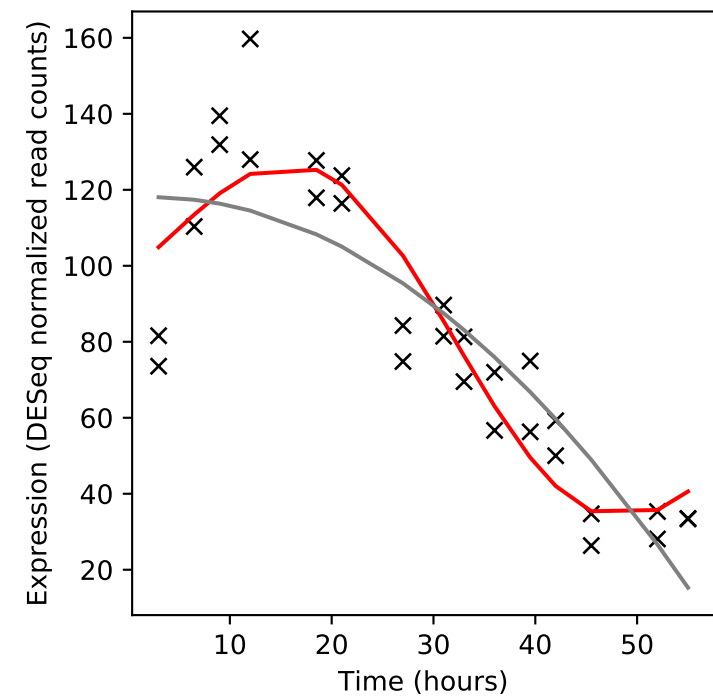
Rv2250A/-



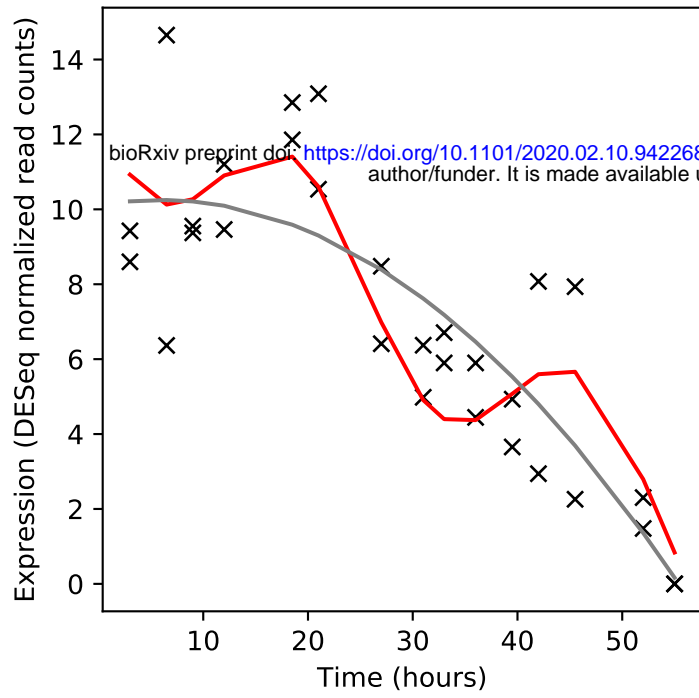
Rv2251/-



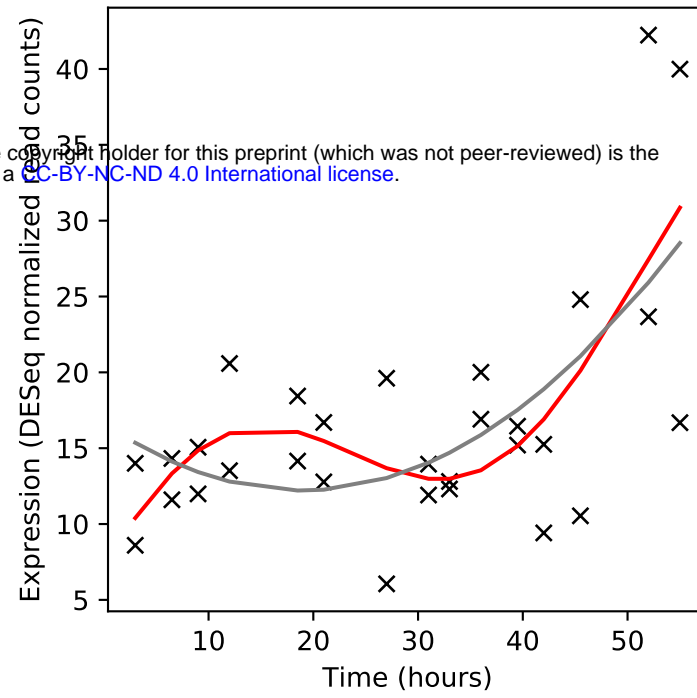
Rv2252/-



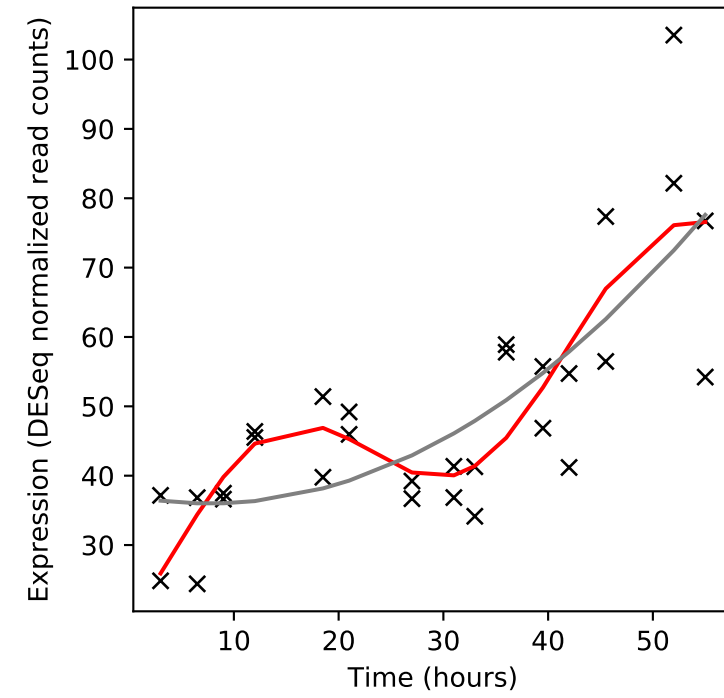
Rv2253/-



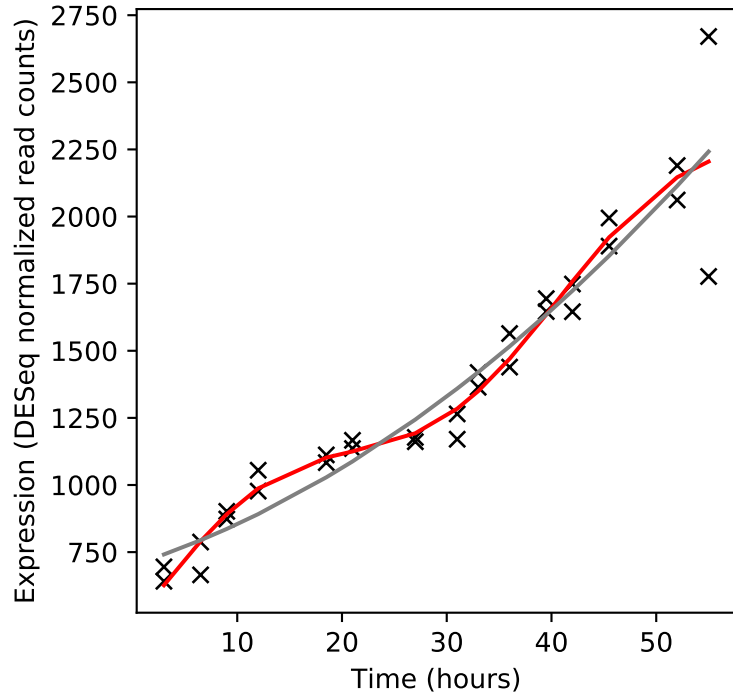
Rv2254c/-



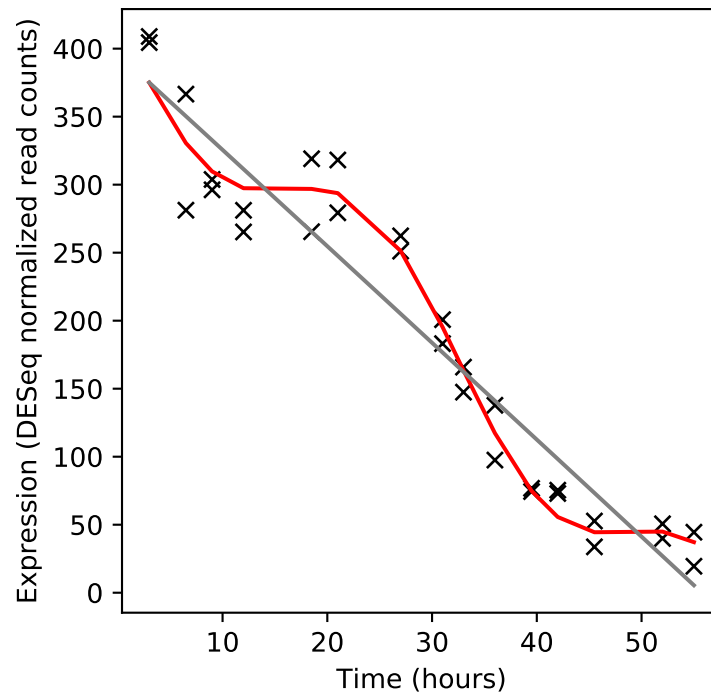
Rv2255c/-



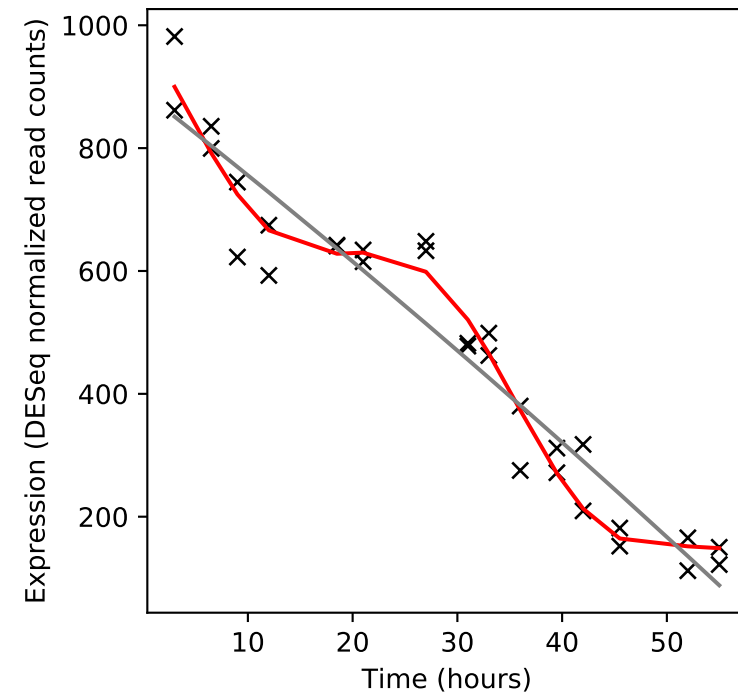
Rv2256c/-



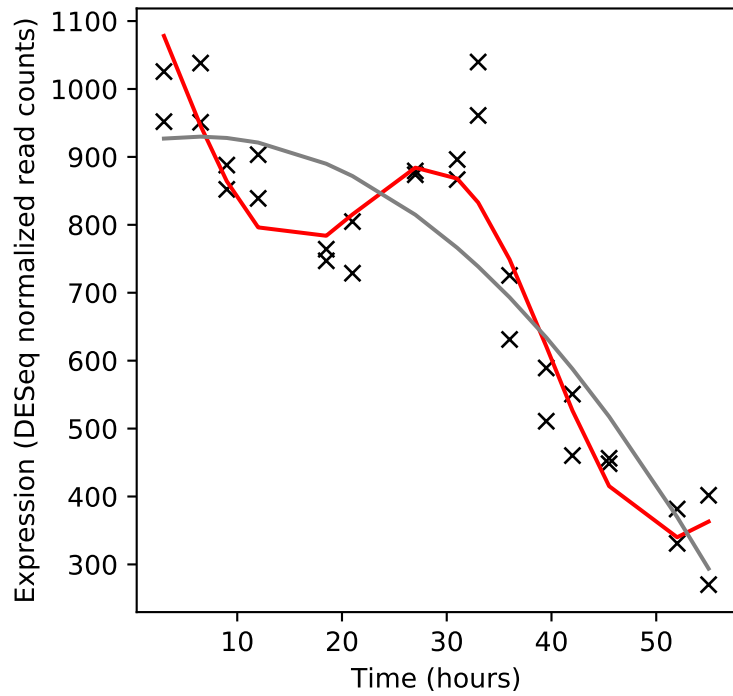
Rv2257c/-



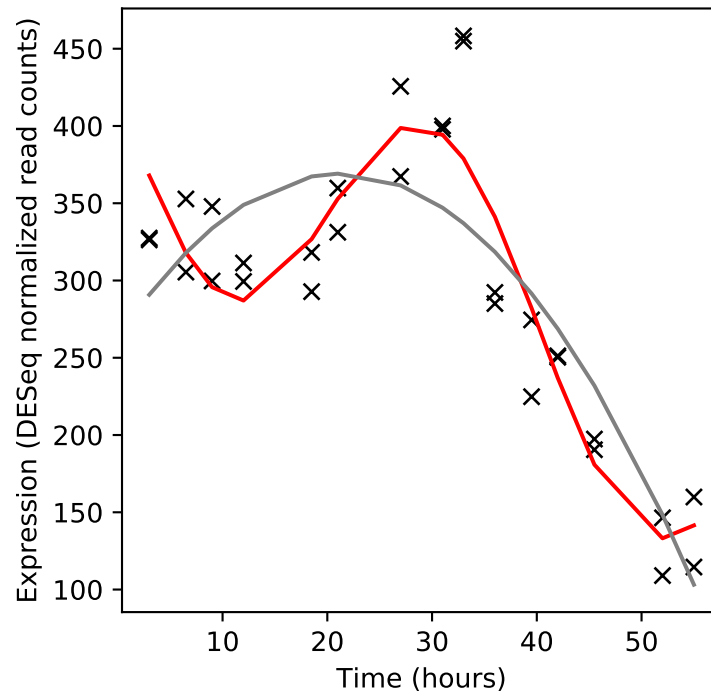
Rv2258c/-



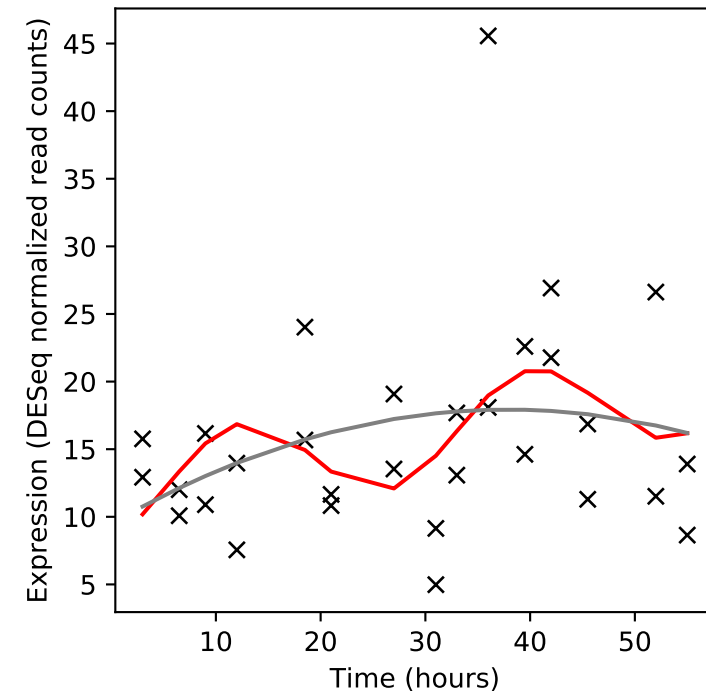
Rv2259/mscR



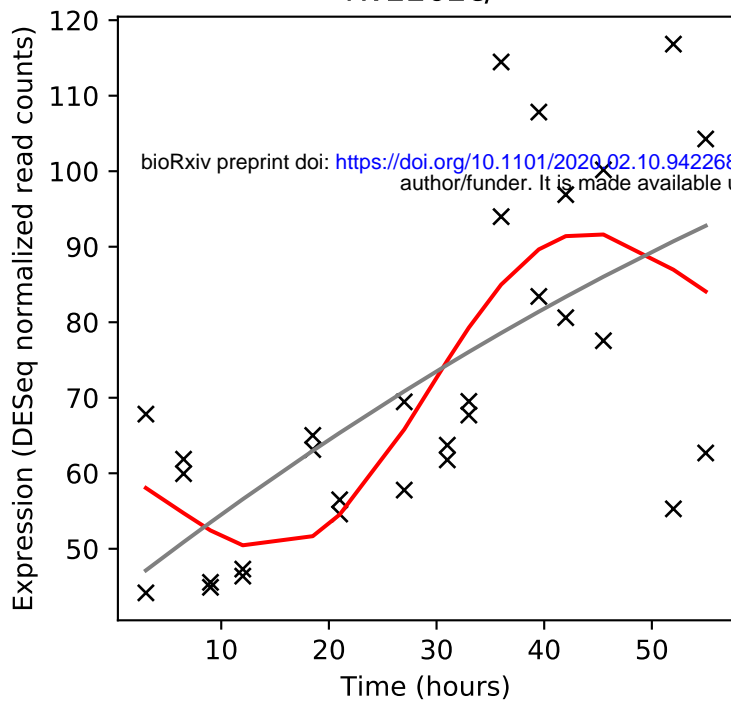
Rv2260/-



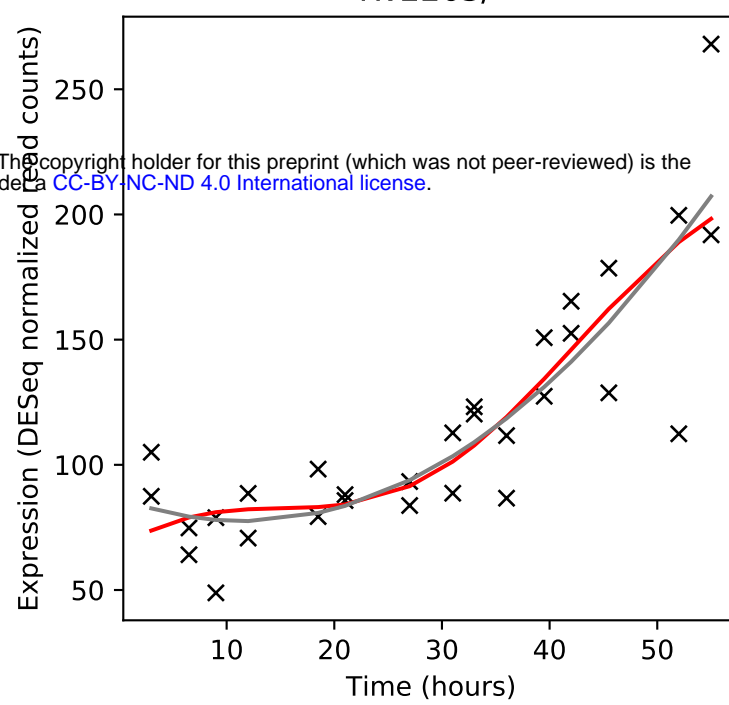
Rv2261c/-



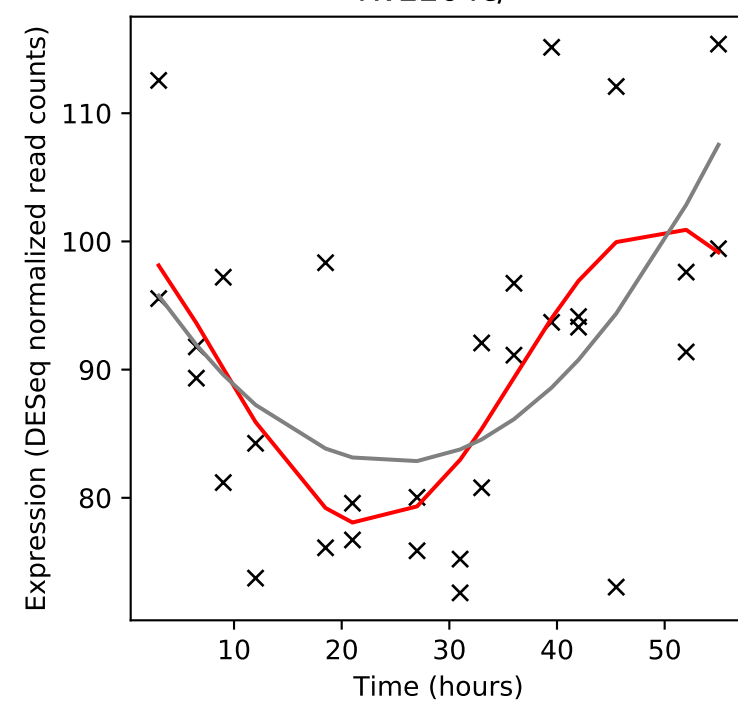
Rv2262c/-



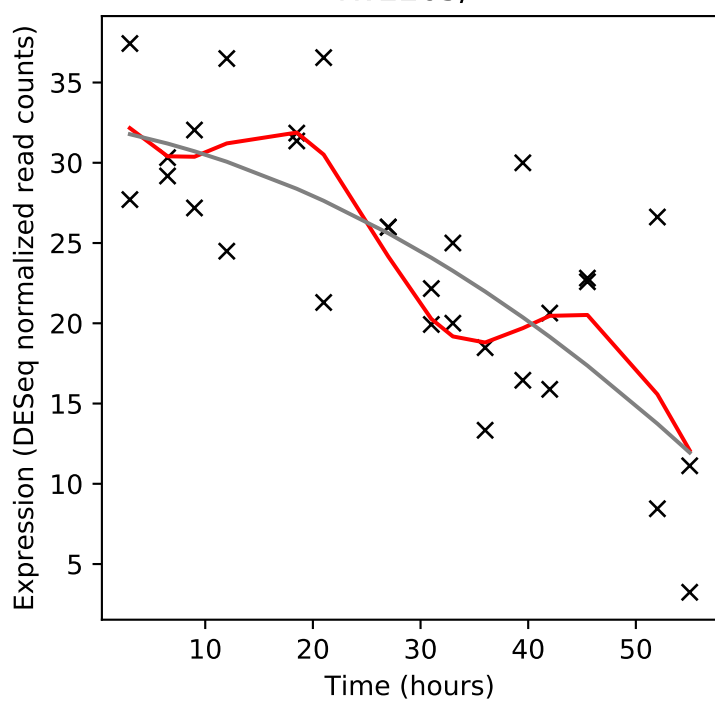
Rv2263/-



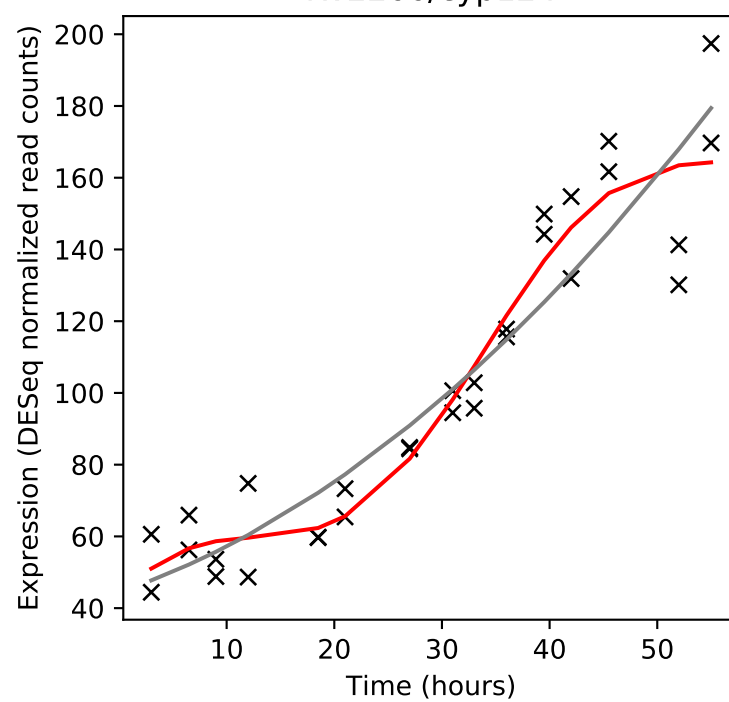
Rv2264c/-



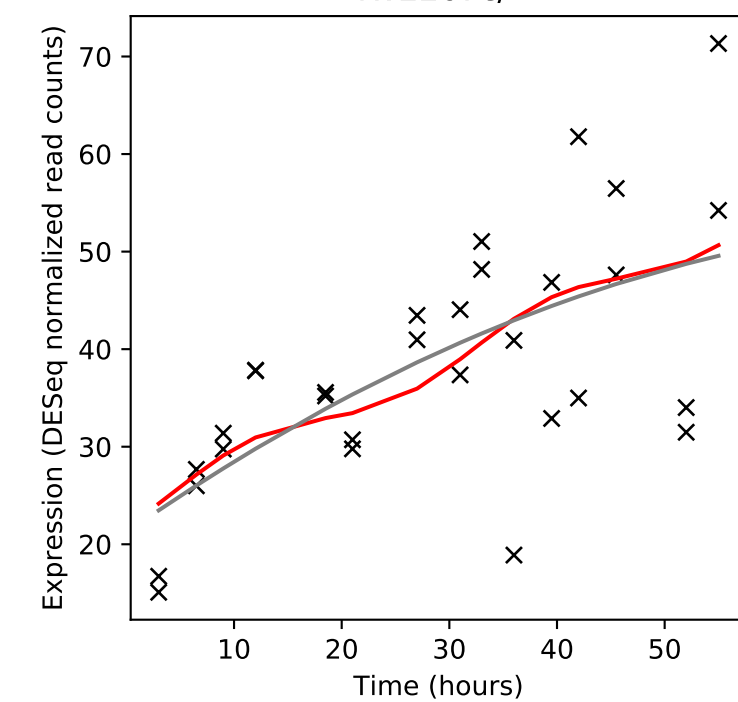
Rv2265/-



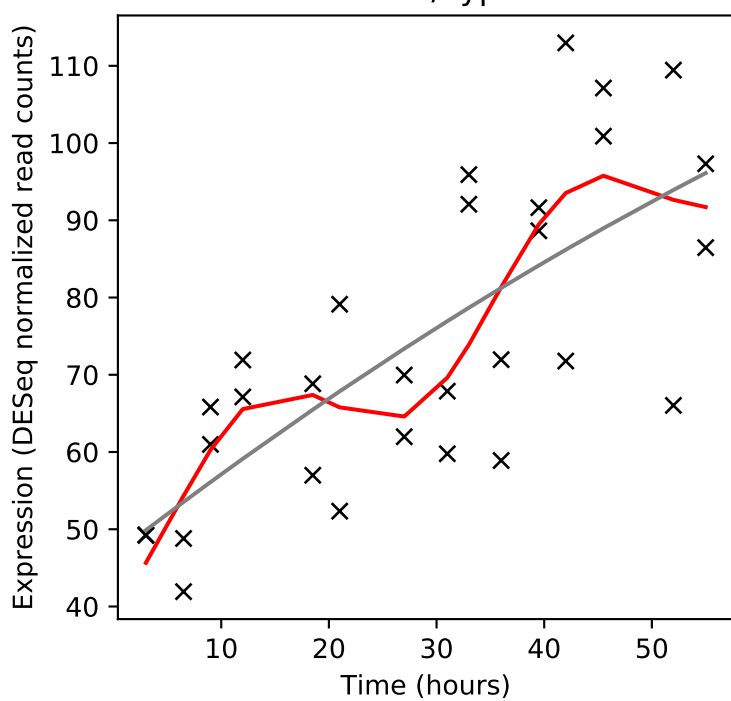
Rv2266/cyp124



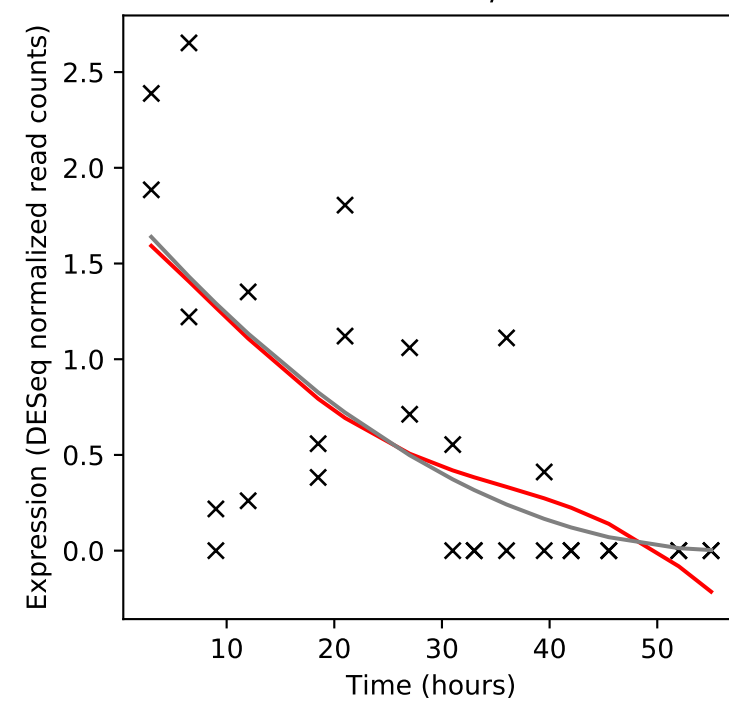
Rv2267c/-



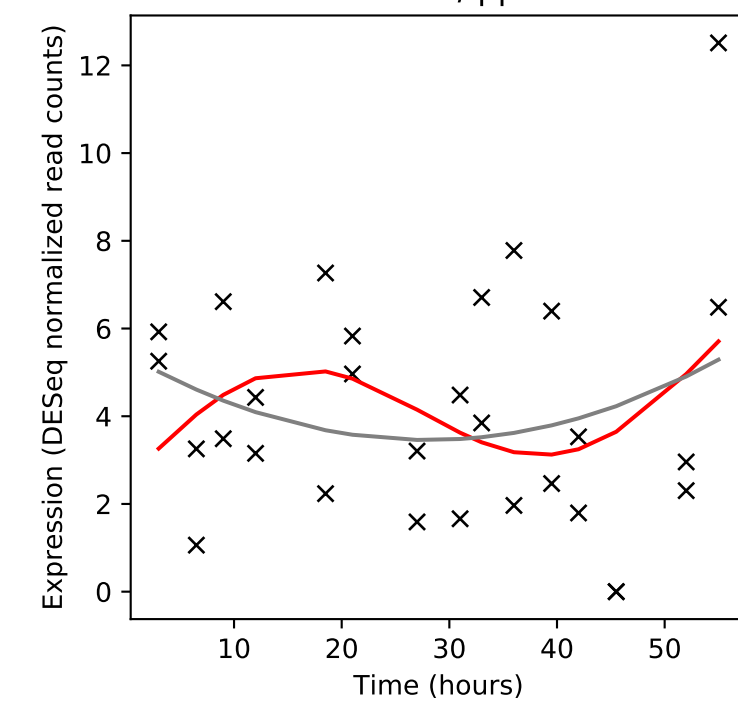
Rv2268c/cyp128



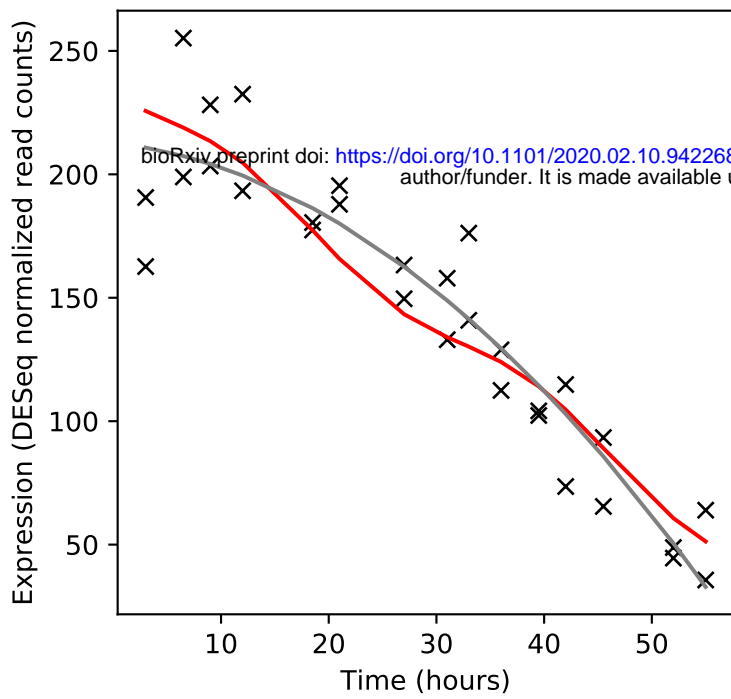
Rv2269c/-



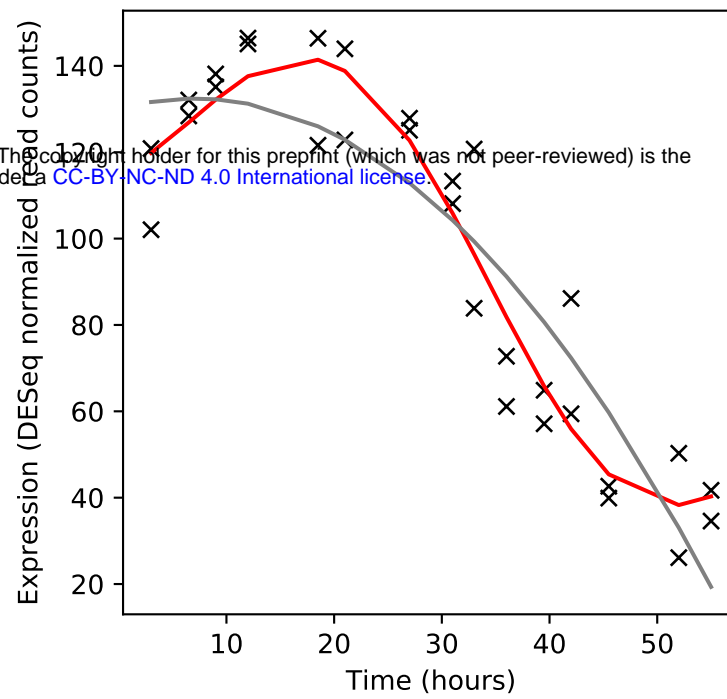
Rv2270/lppN



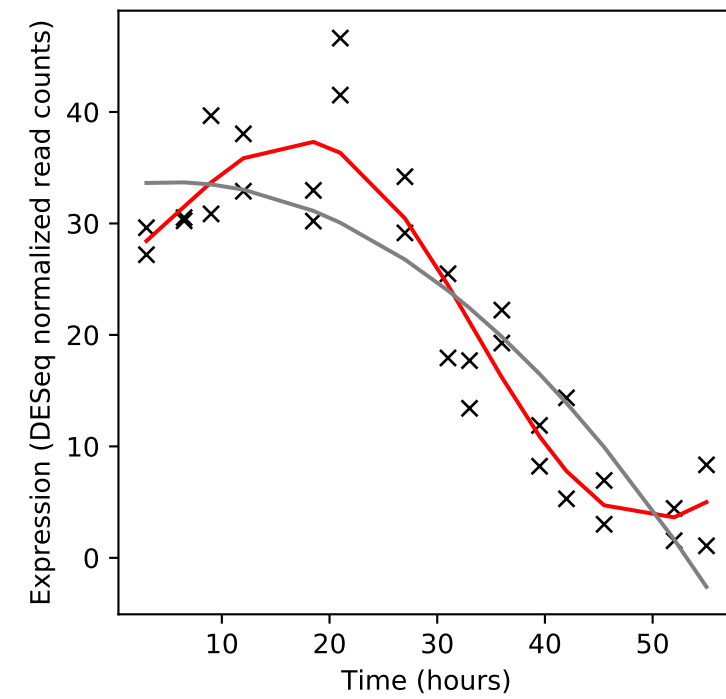
Rv2271/-



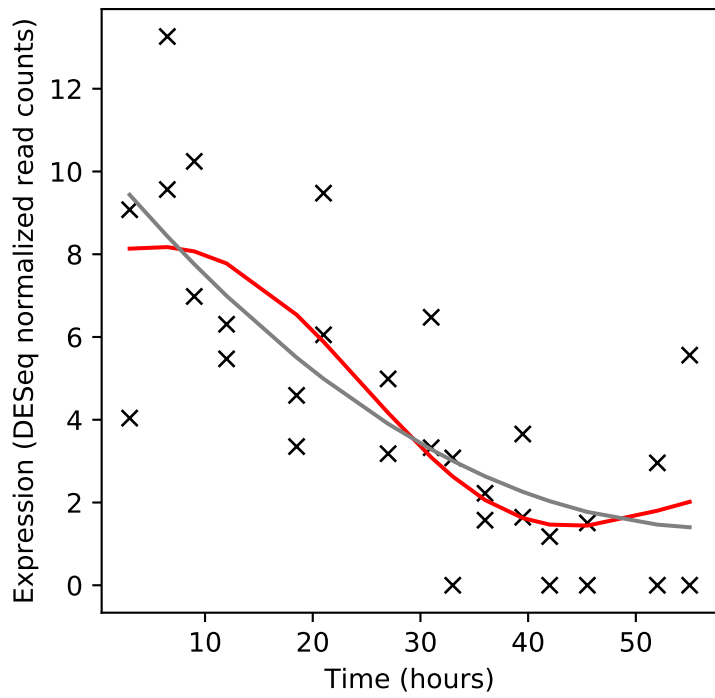
Rv2272/-



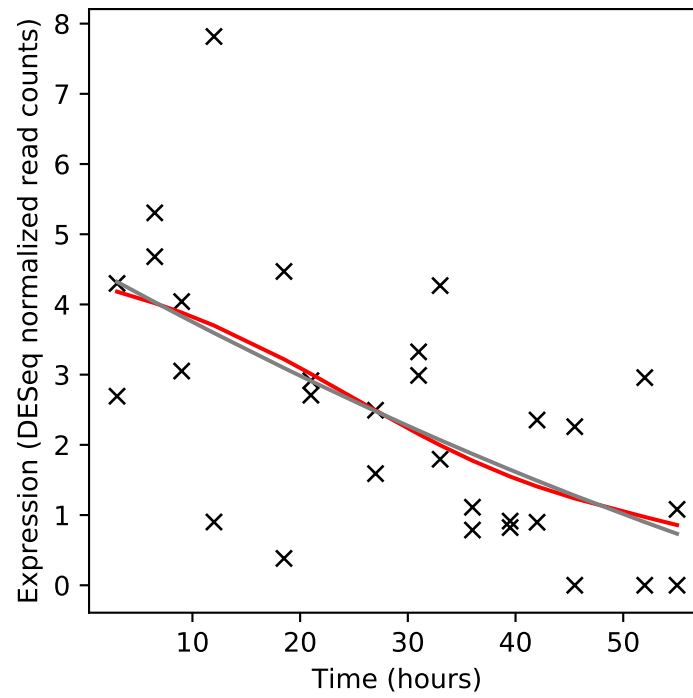
Rv2273/-



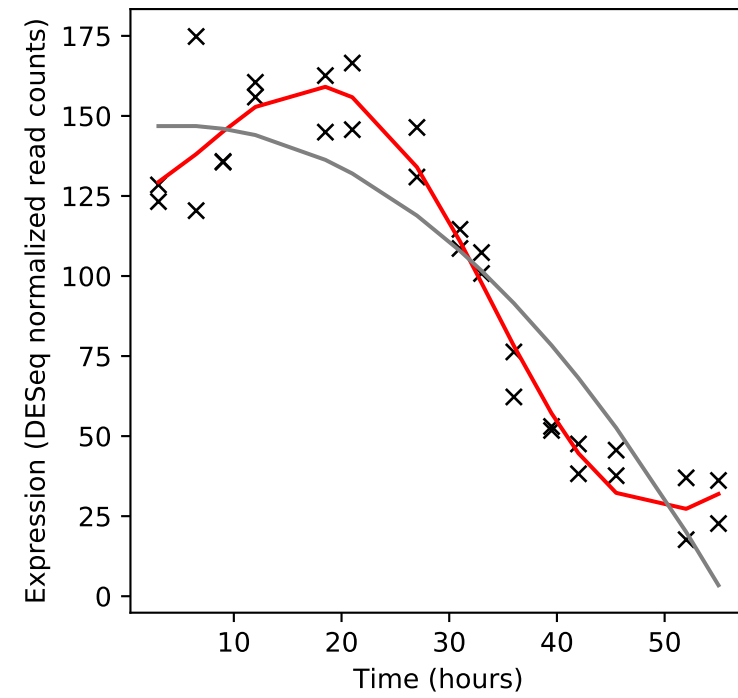
Rv2274c/mazF8



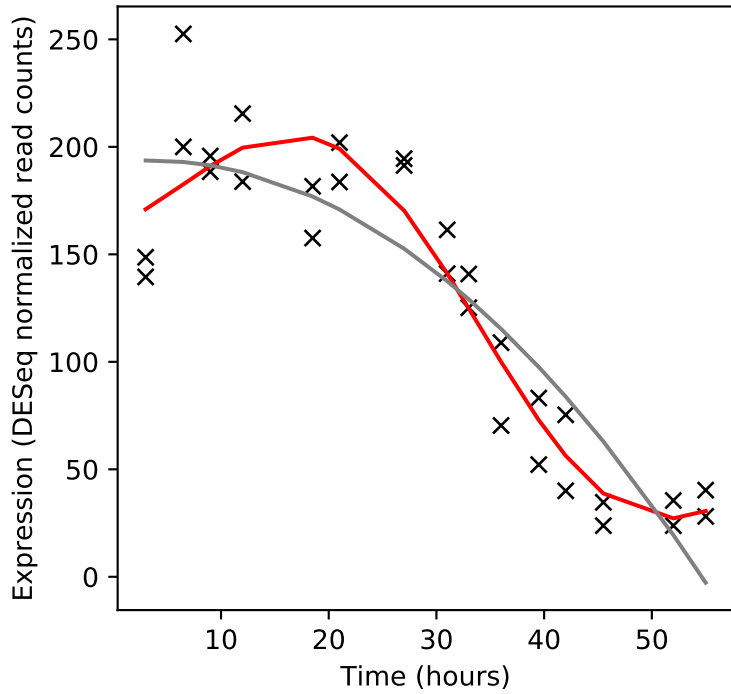
Rv2274A/mazE8



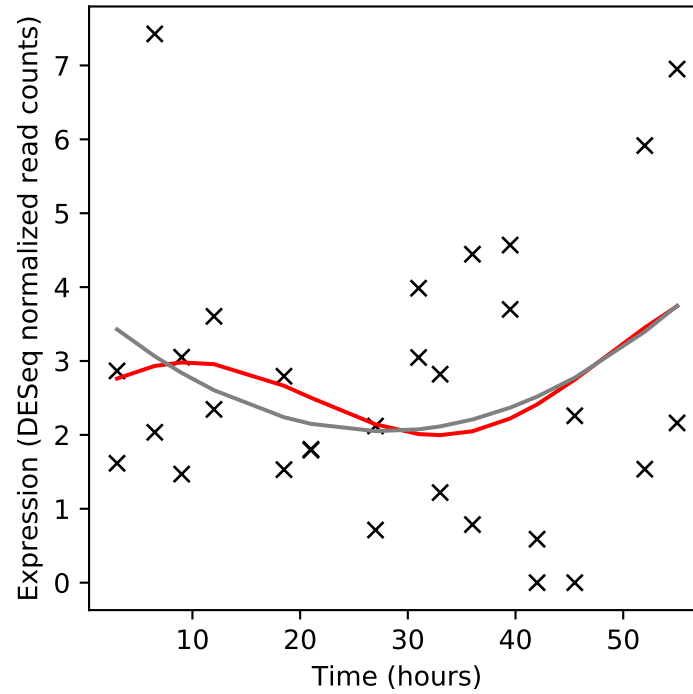
Rv2275/-



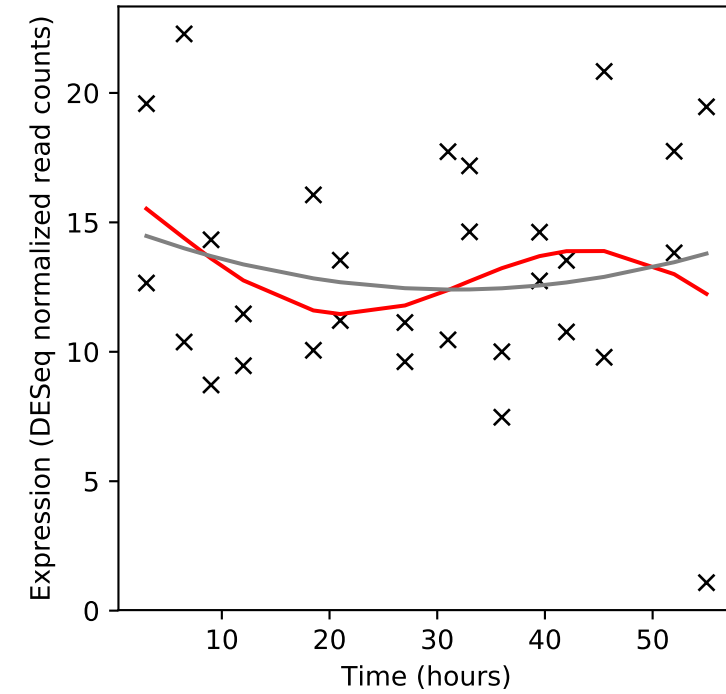
Rv2276/cyp121

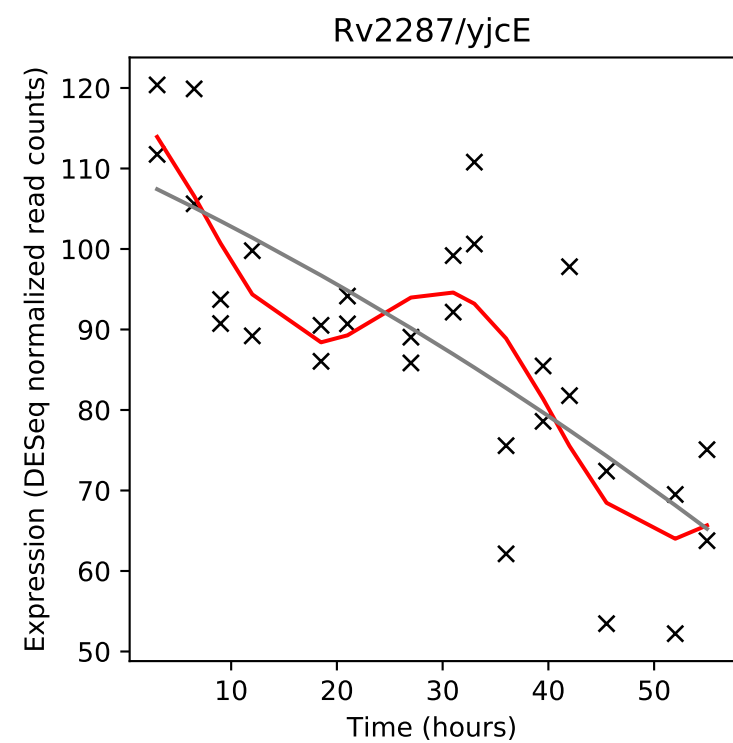
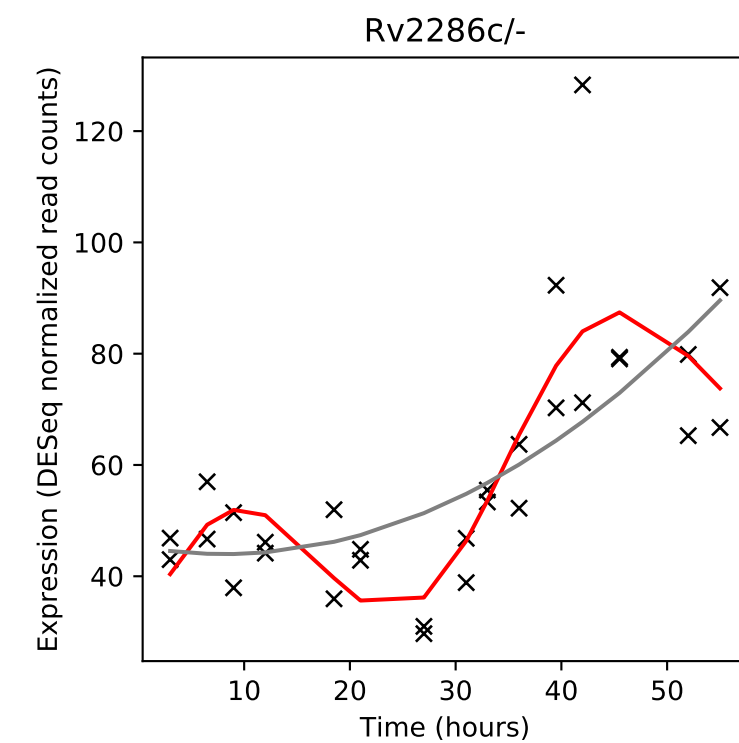
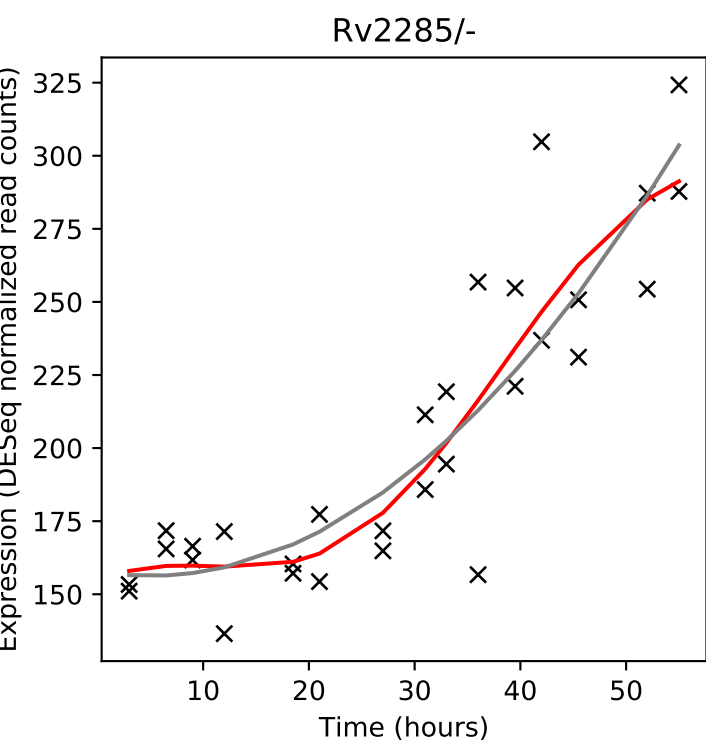
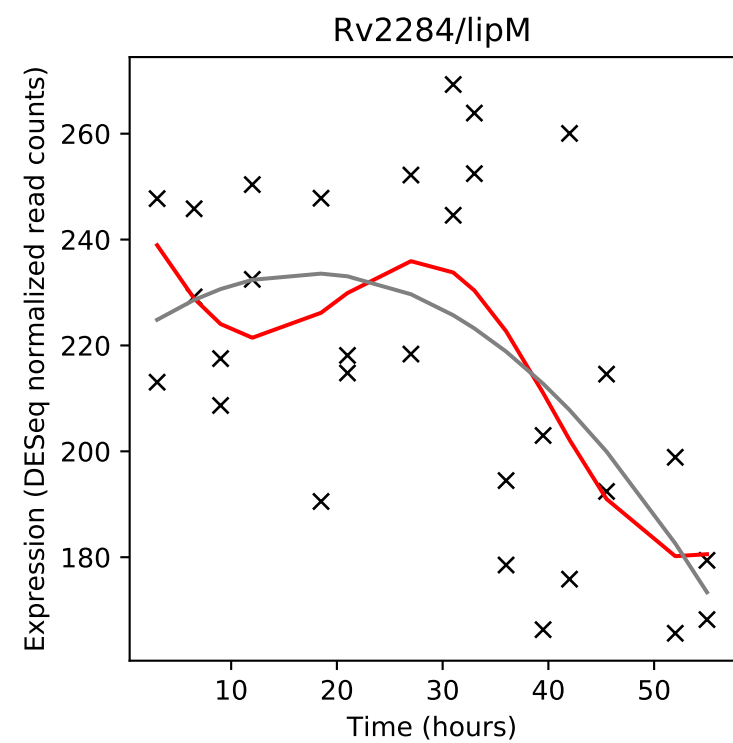
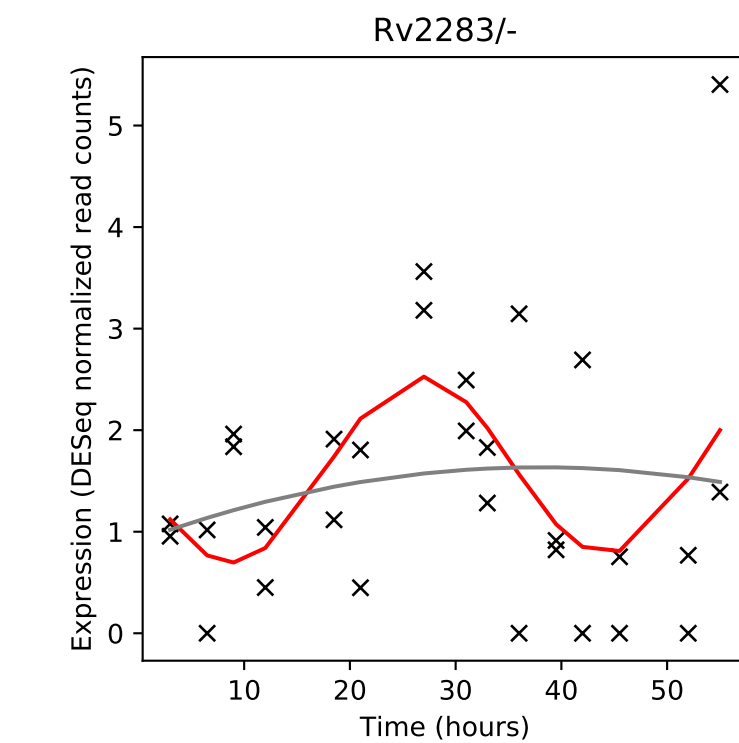
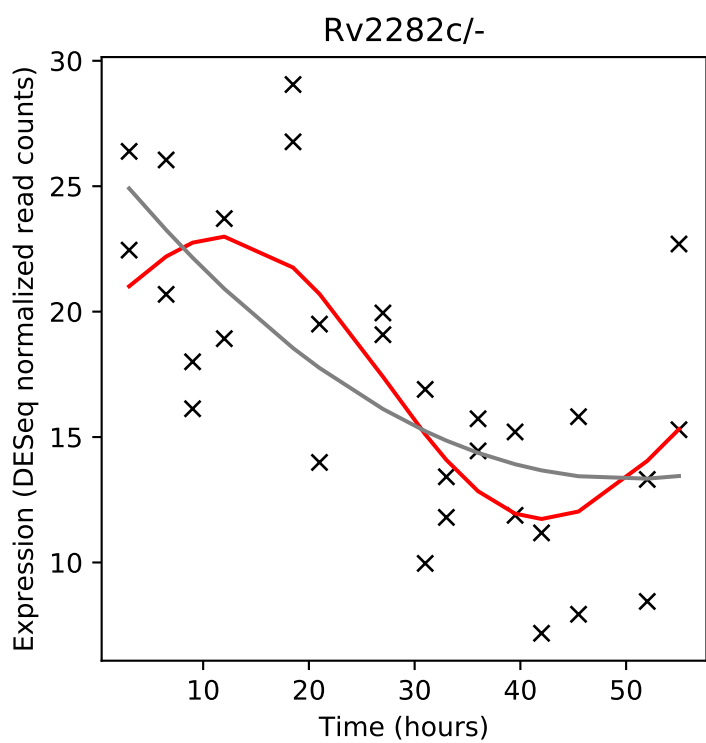
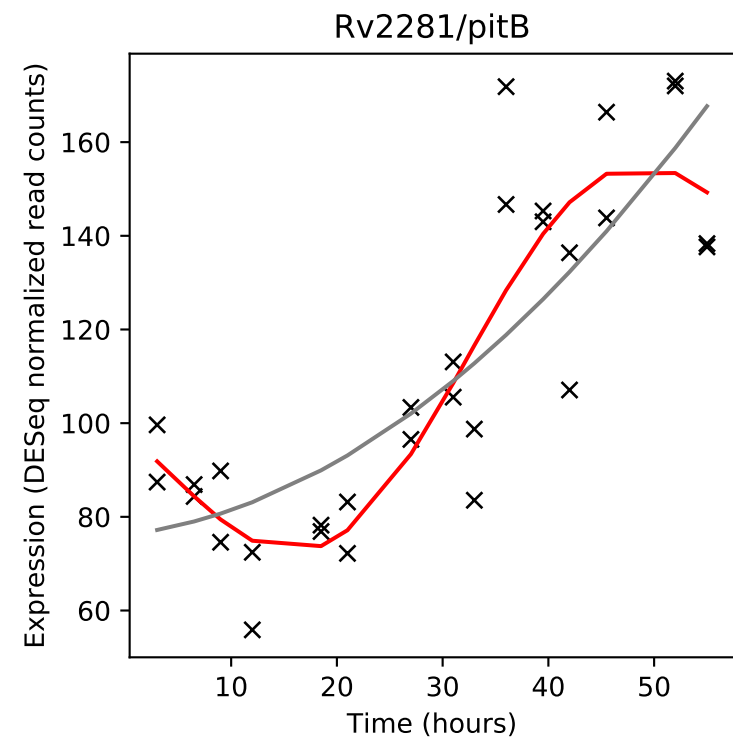
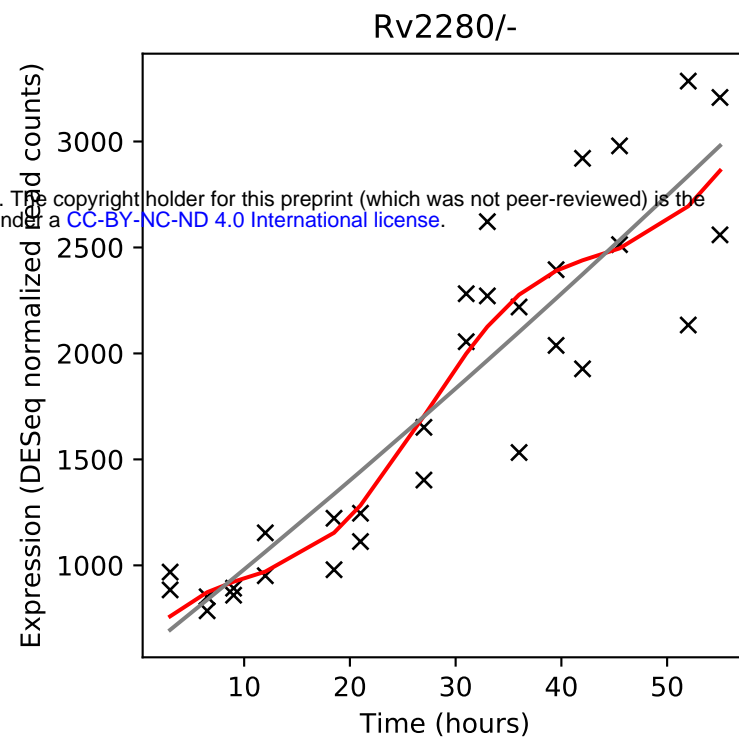
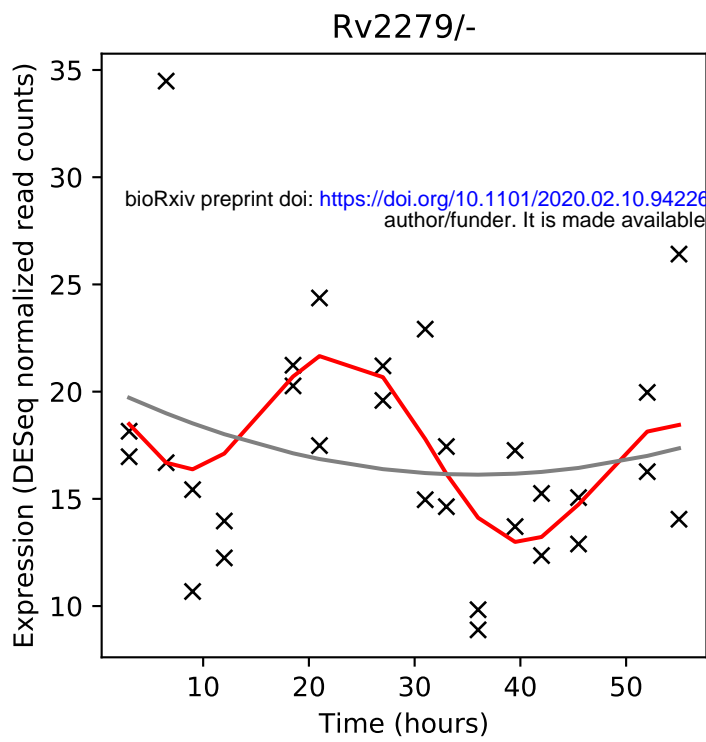


Rv2277c/-

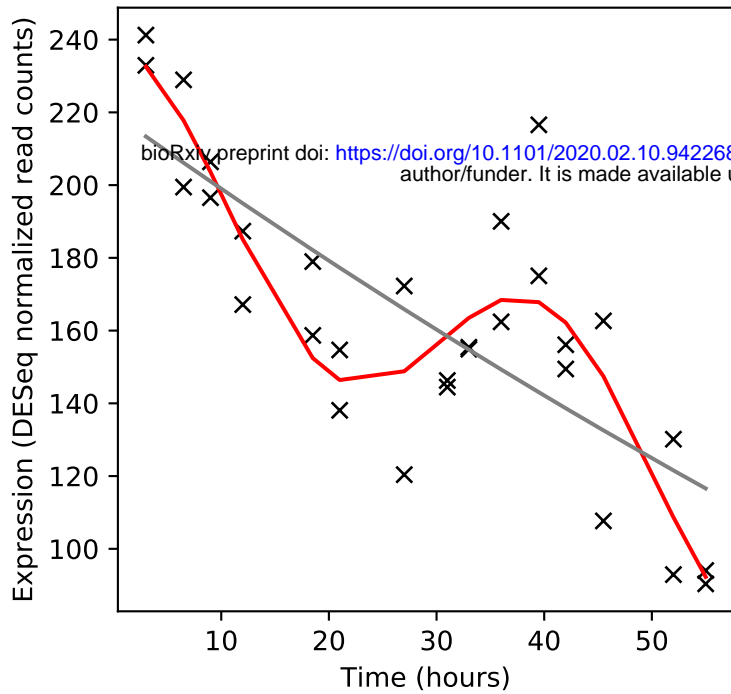


Rv2278/-

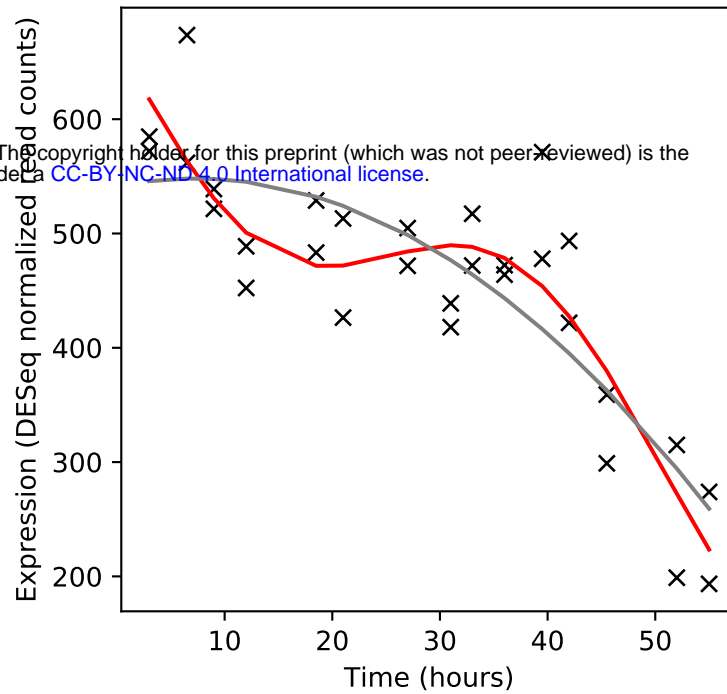




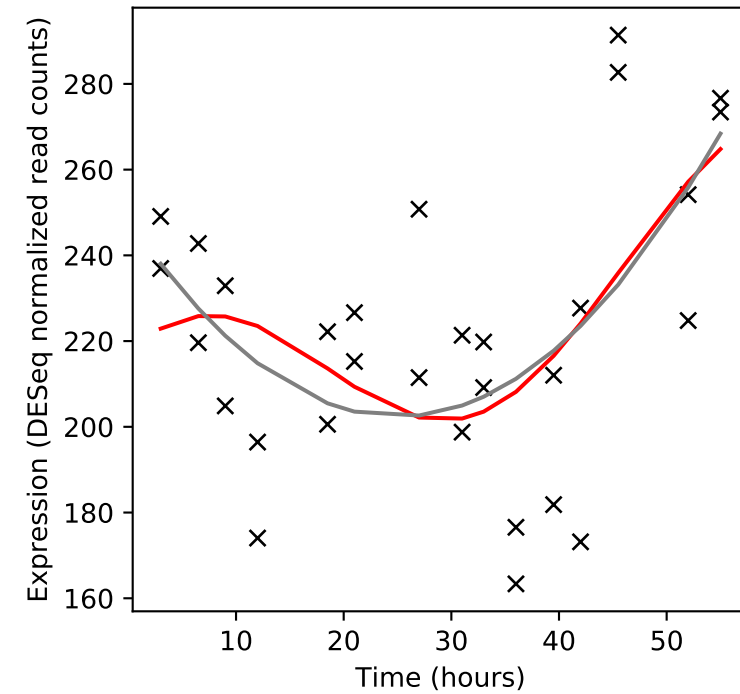
Rv2288/-



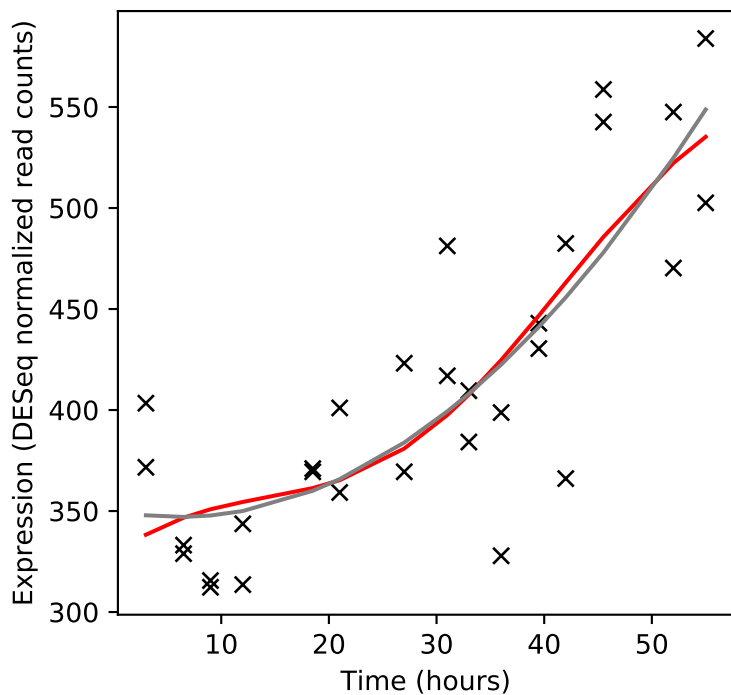
Rv2289/cdh



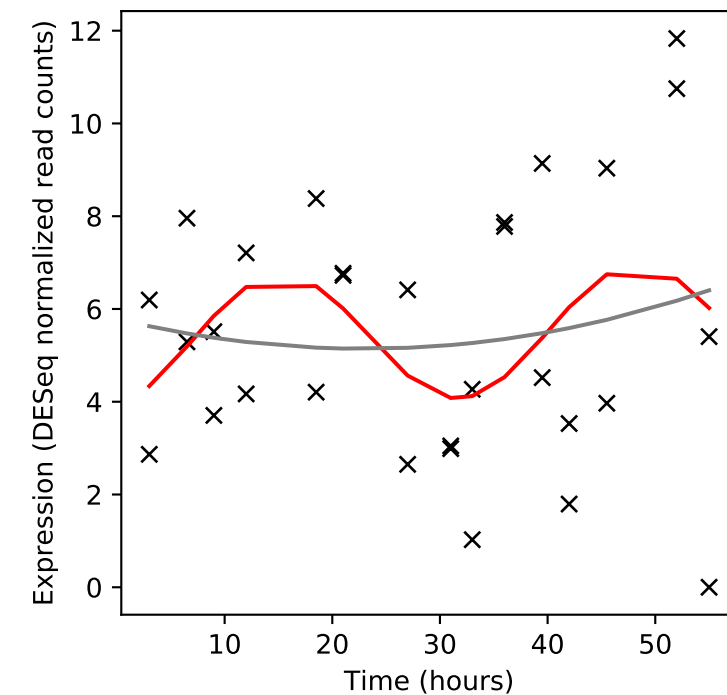
Rv2290/lppO



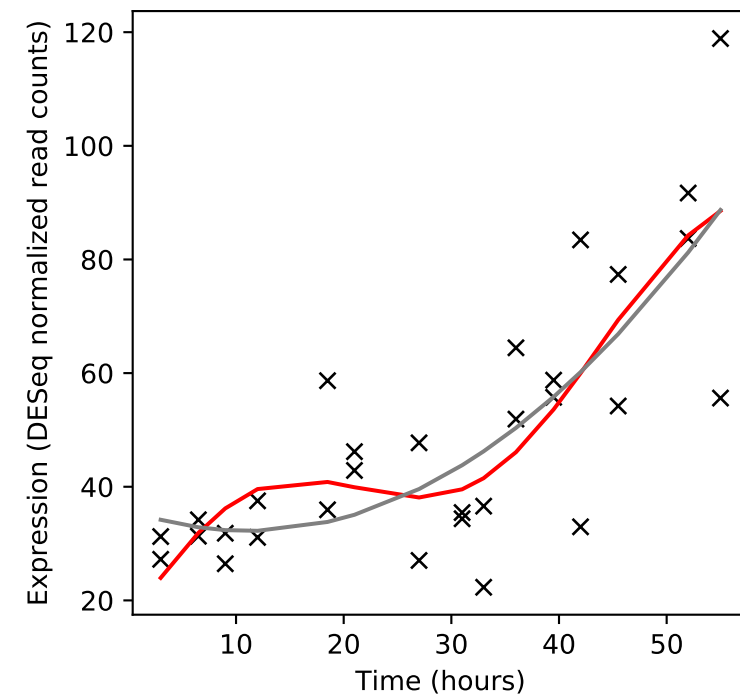
Rv2291/sseB



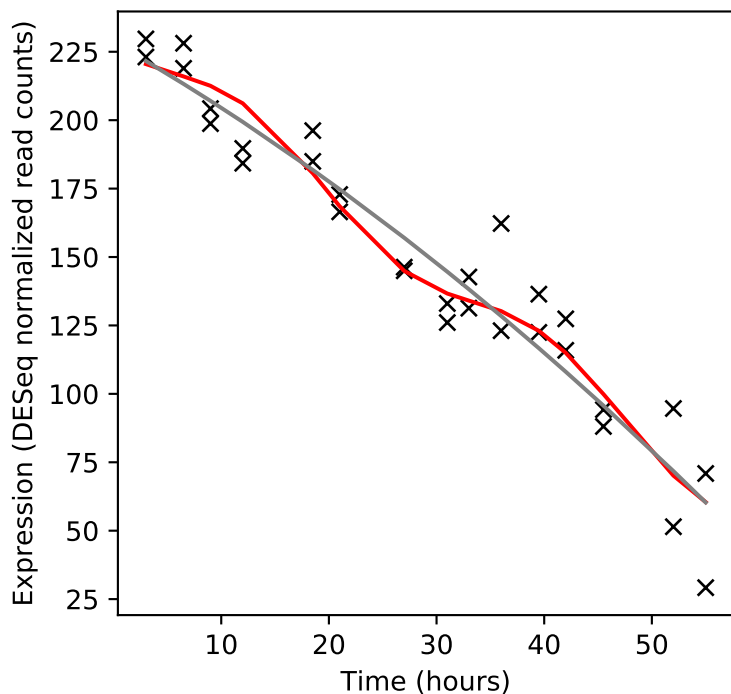
Rv2292c/-



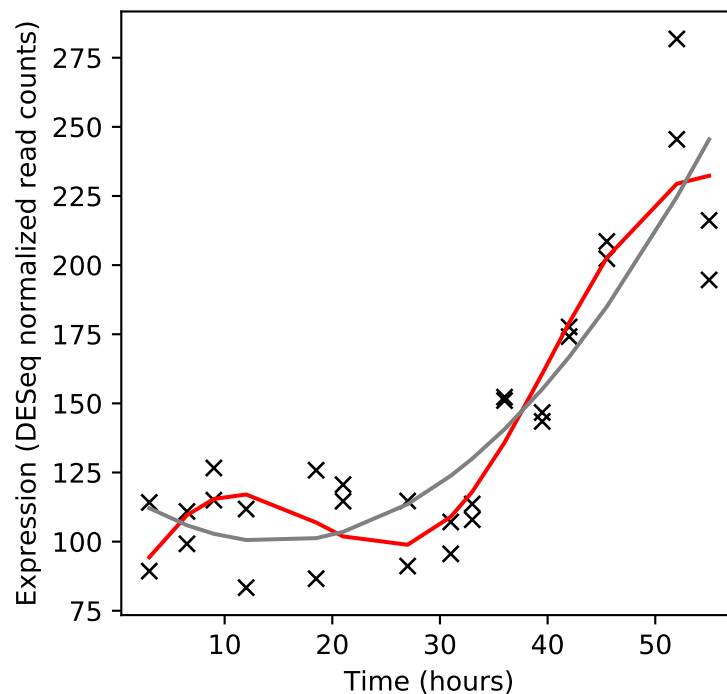
Rv2293c/-



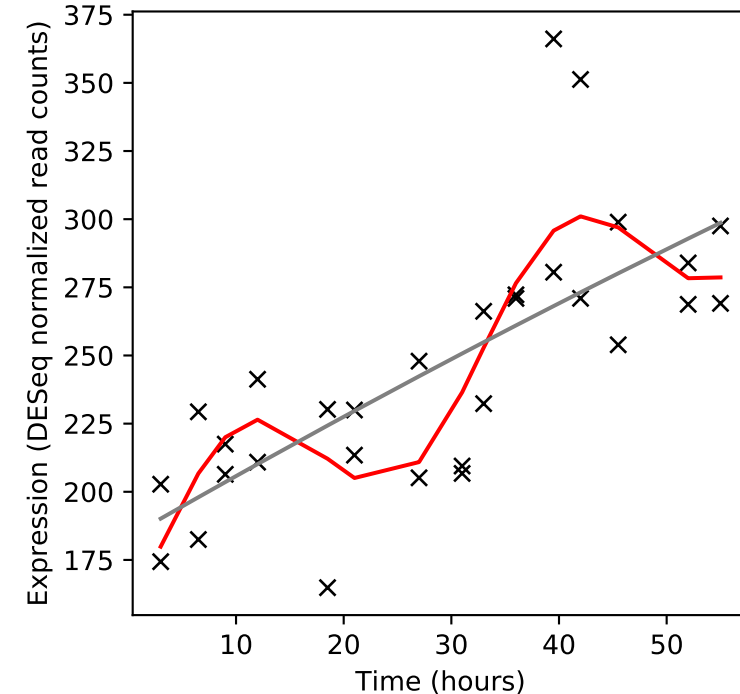
Rv2294/-



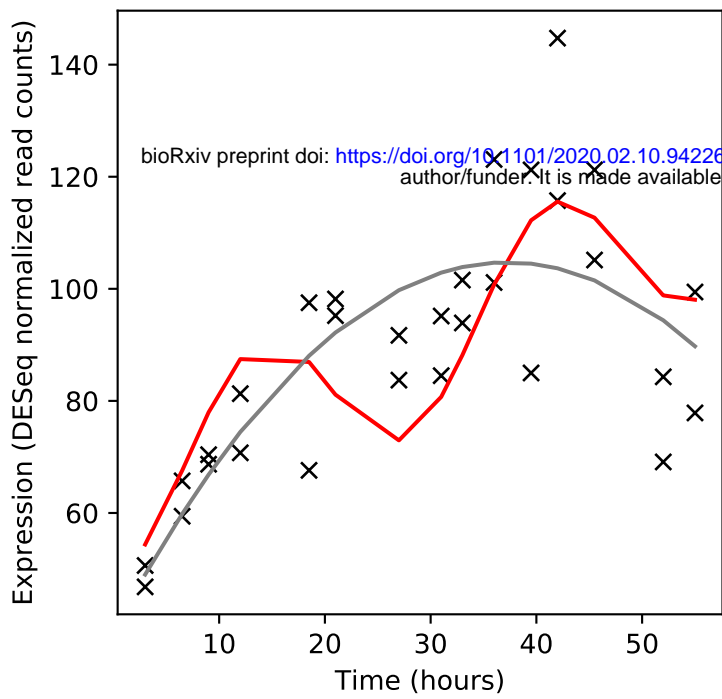
Rv2295/-



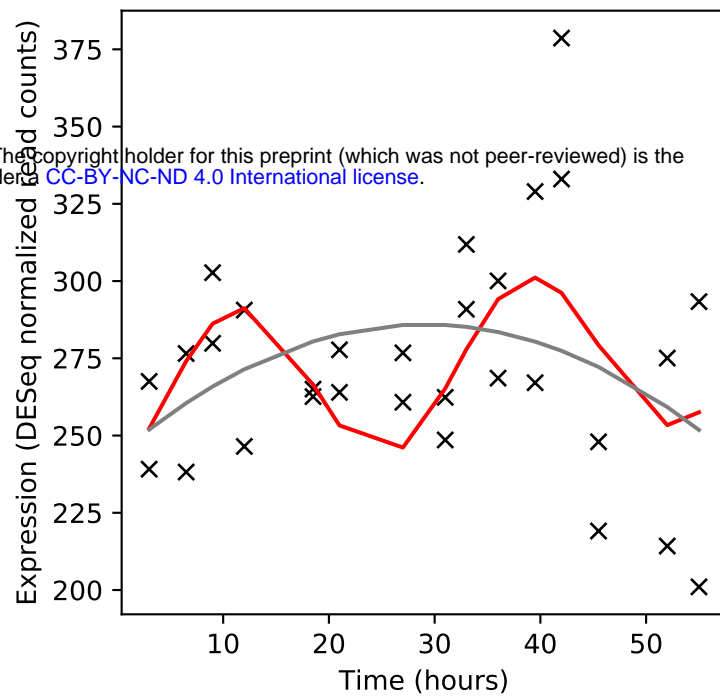
Rv2296/-



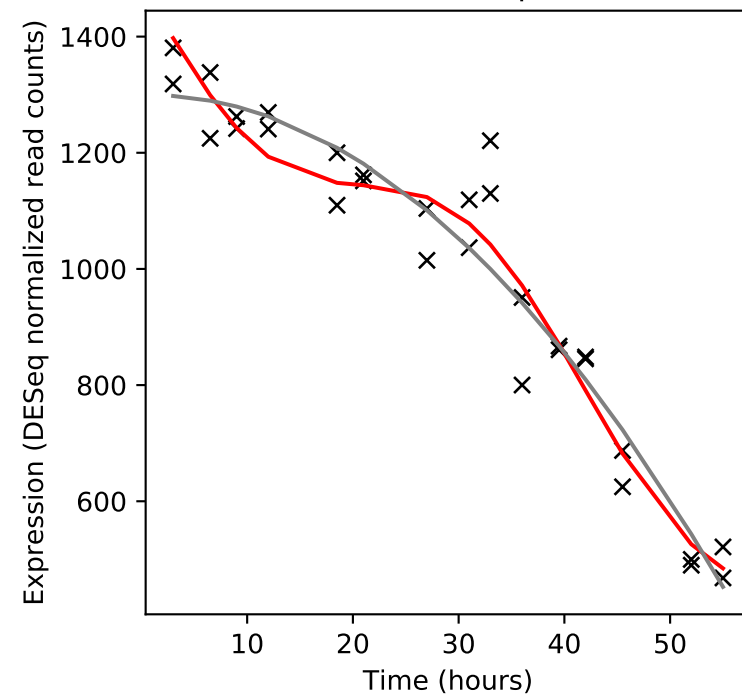
Rv2297/-



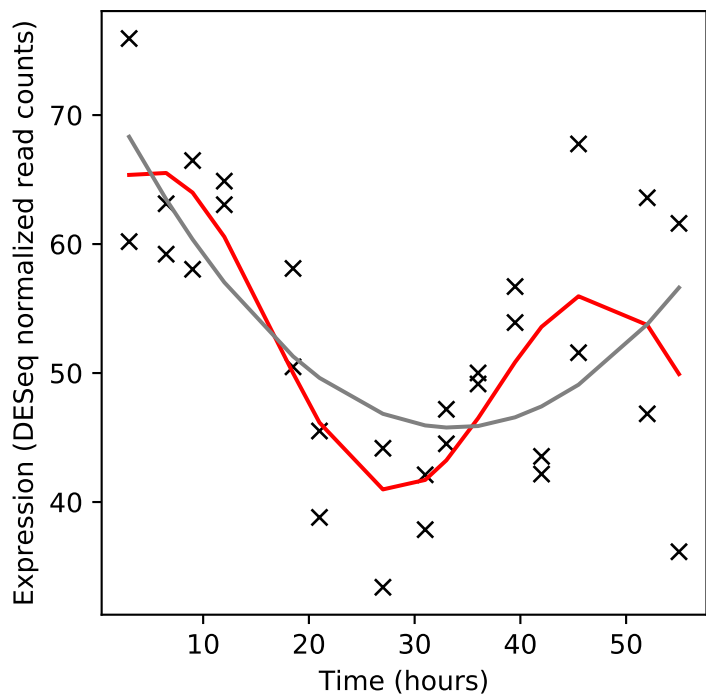
Rv2298/-



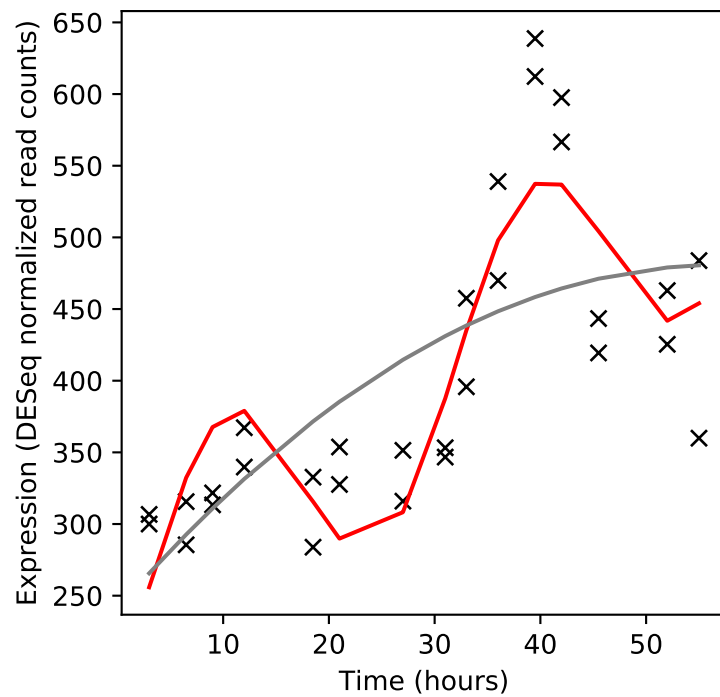
Rv2299c/htpG



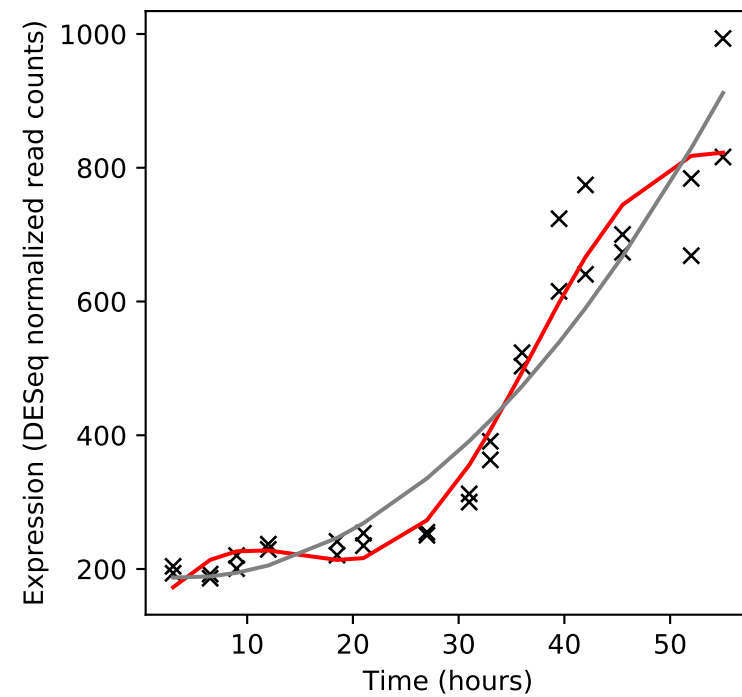
Rv2300c/-



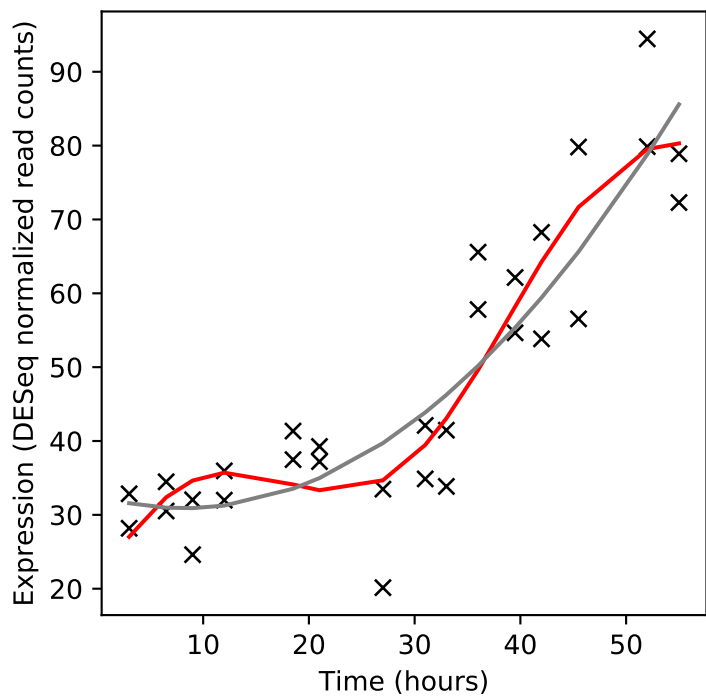
Rv2301/cut2



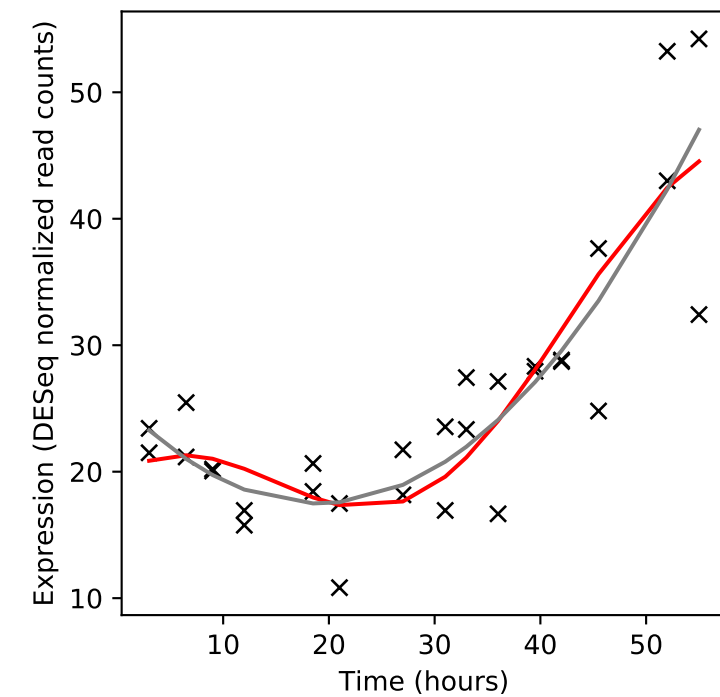
Rv2302/-



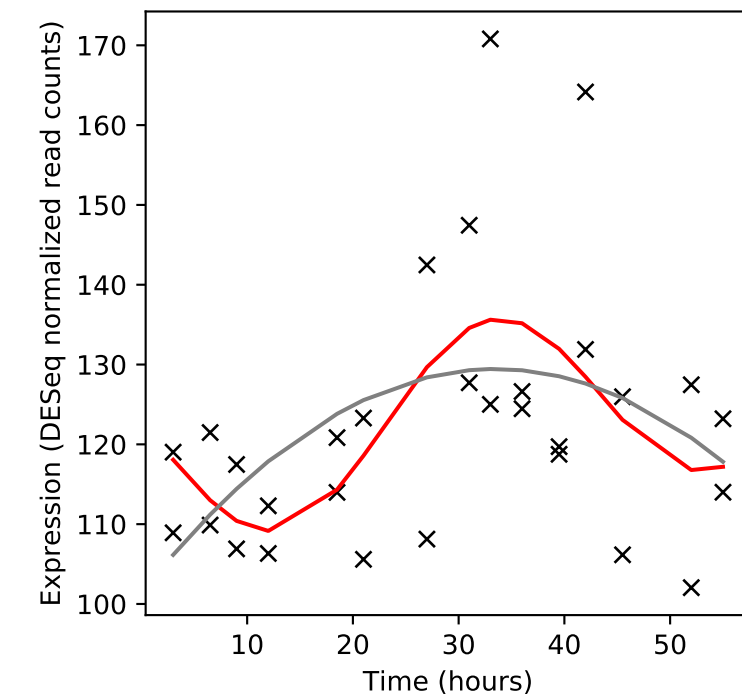
Rv2303c/-



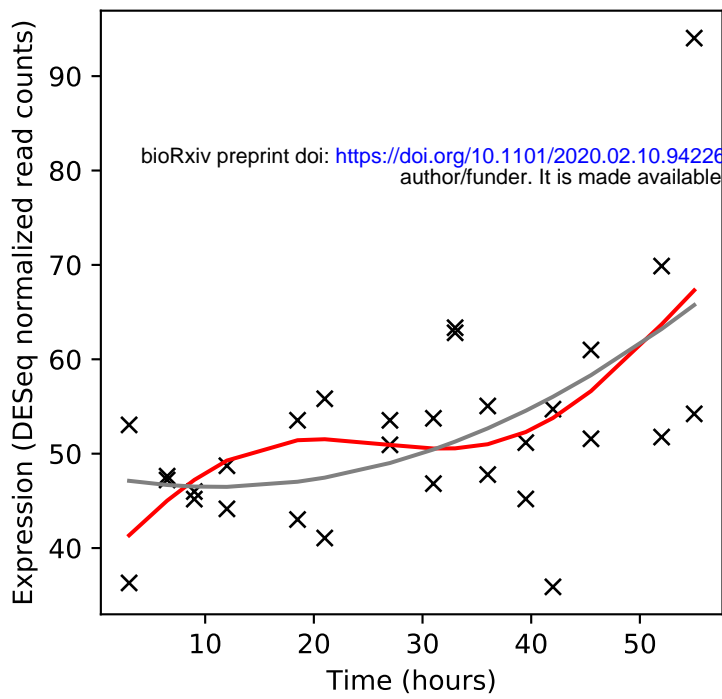
Rv2304c/-



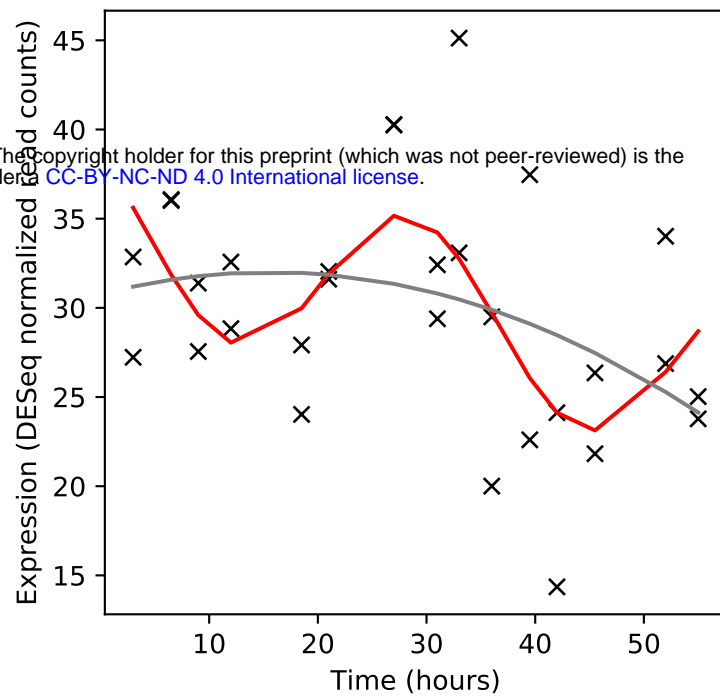
Rv2305/-



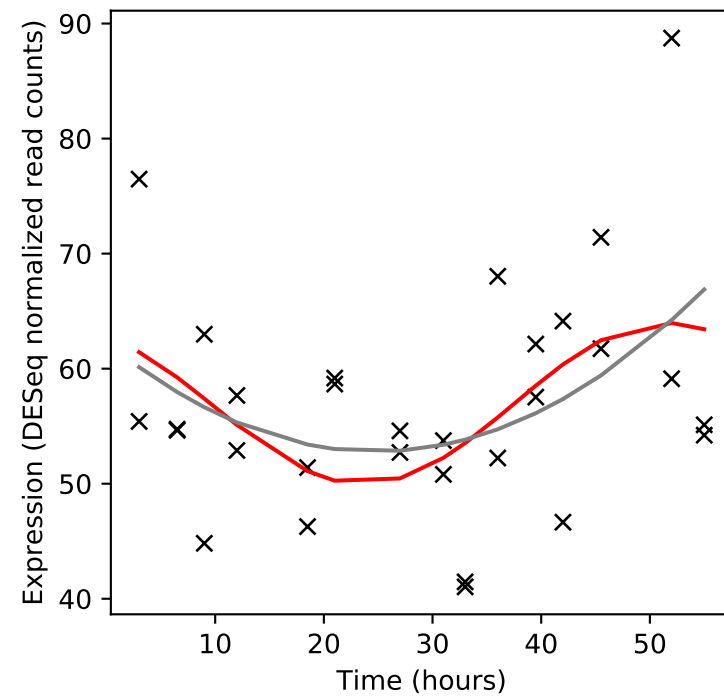
Rv2306A/-



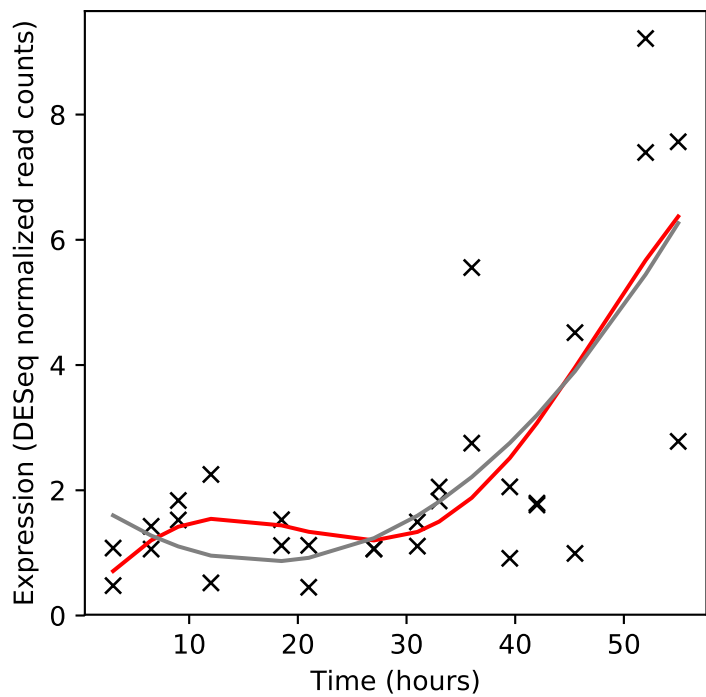
Rv2306B/-



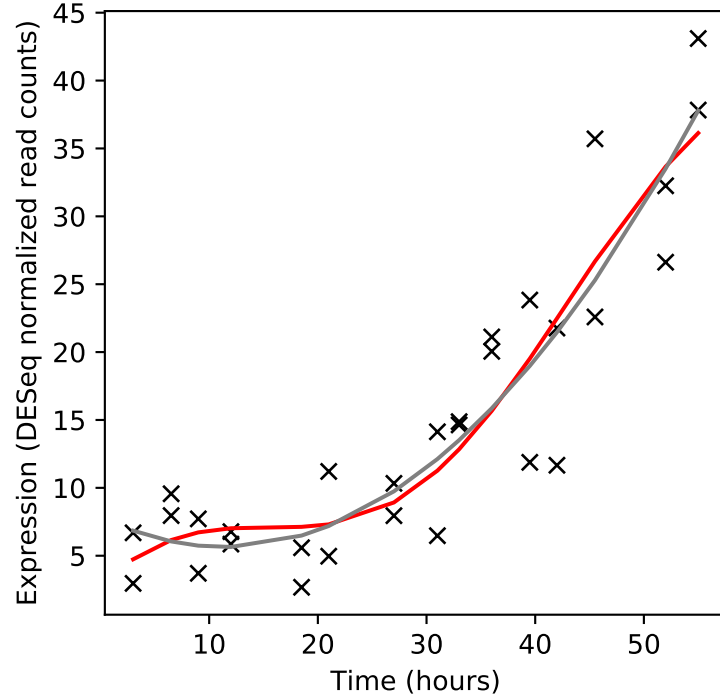
Rv2307c/-



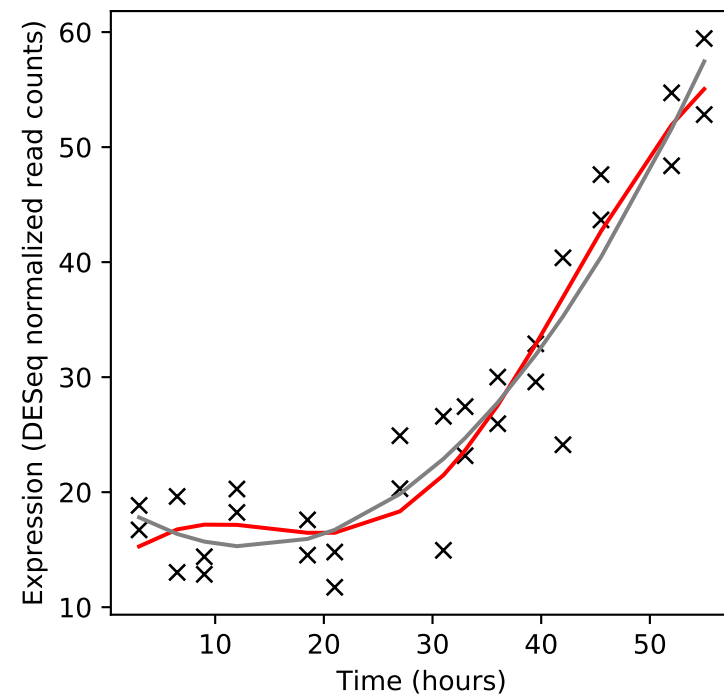
Rv2307A/-



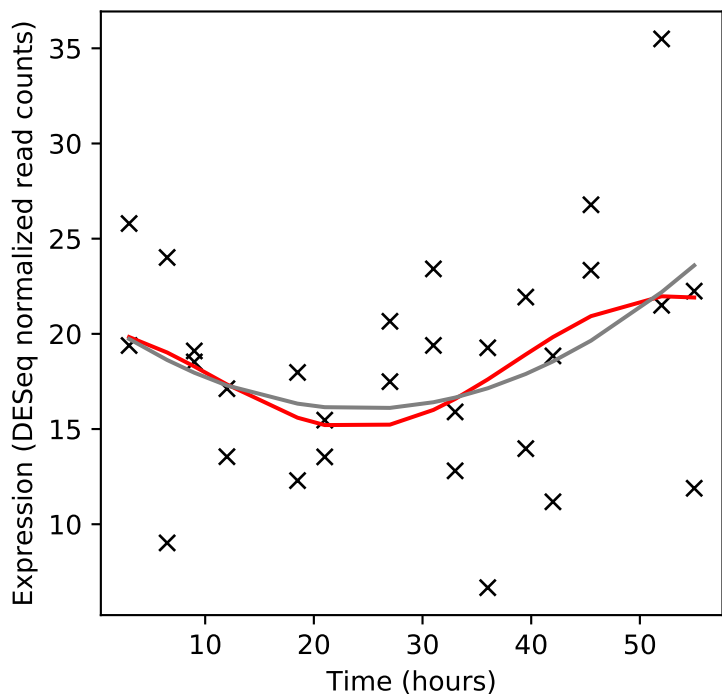
Rv2307B/-



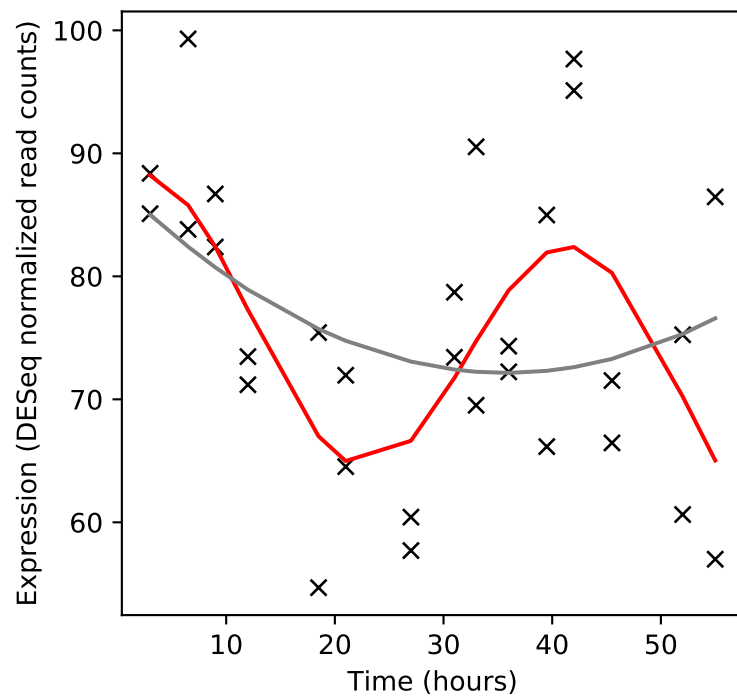
Rv2307D/-



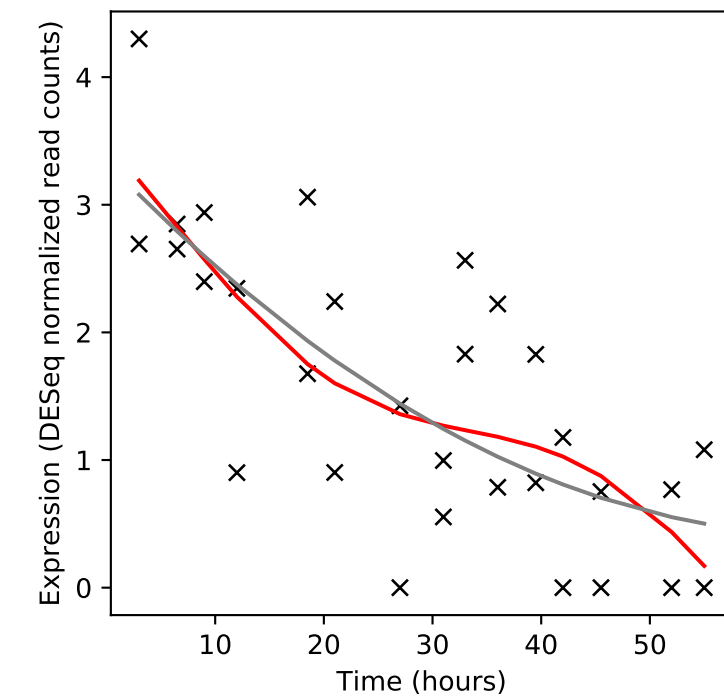
Rv2308/-



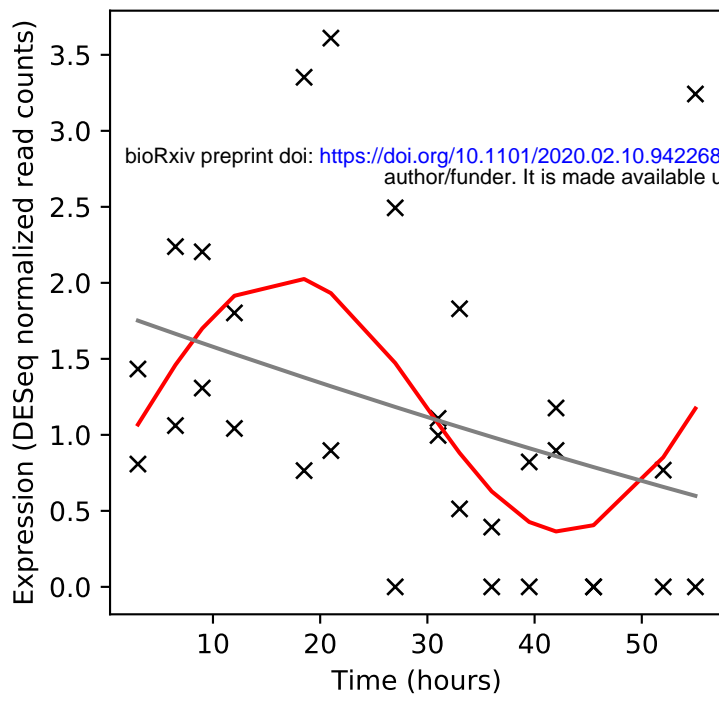
Rv2309c/-



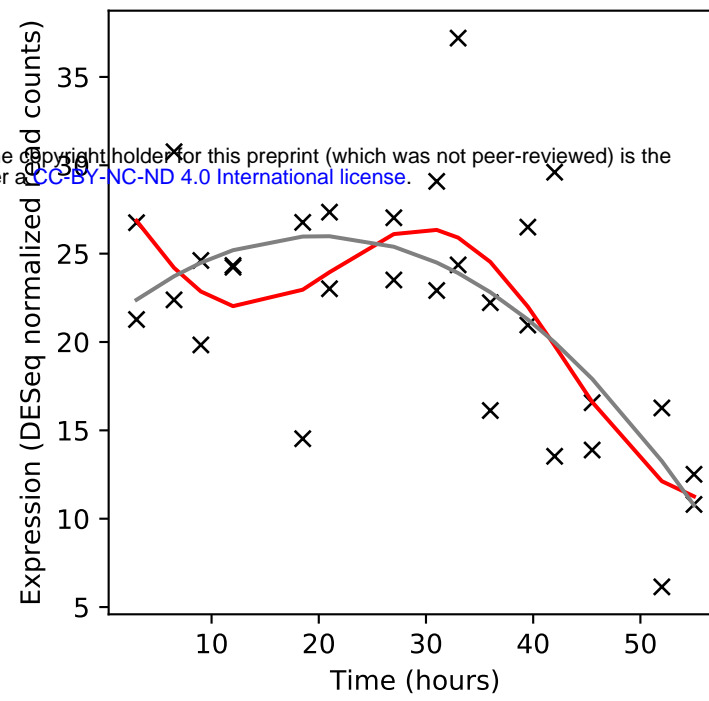
Rv2309A/-



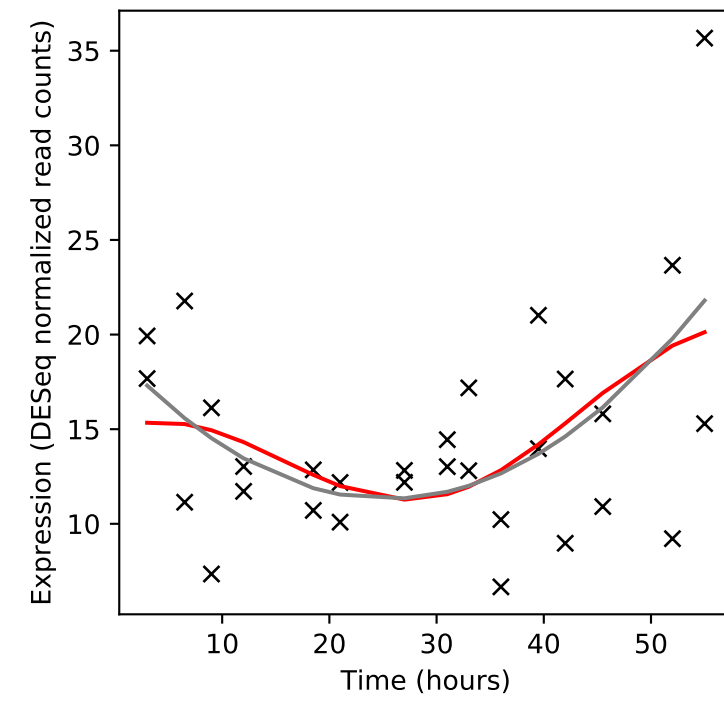
Rv2310/-



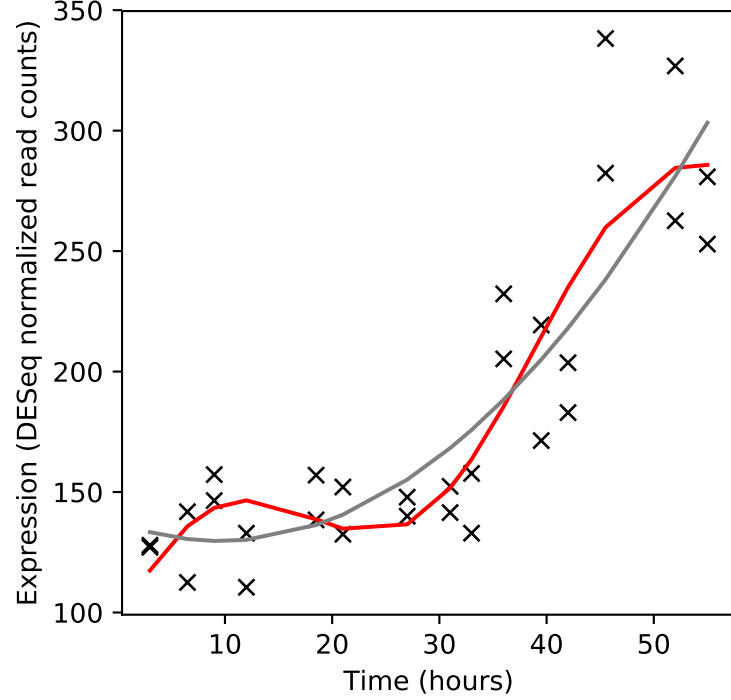
Rv2311/-



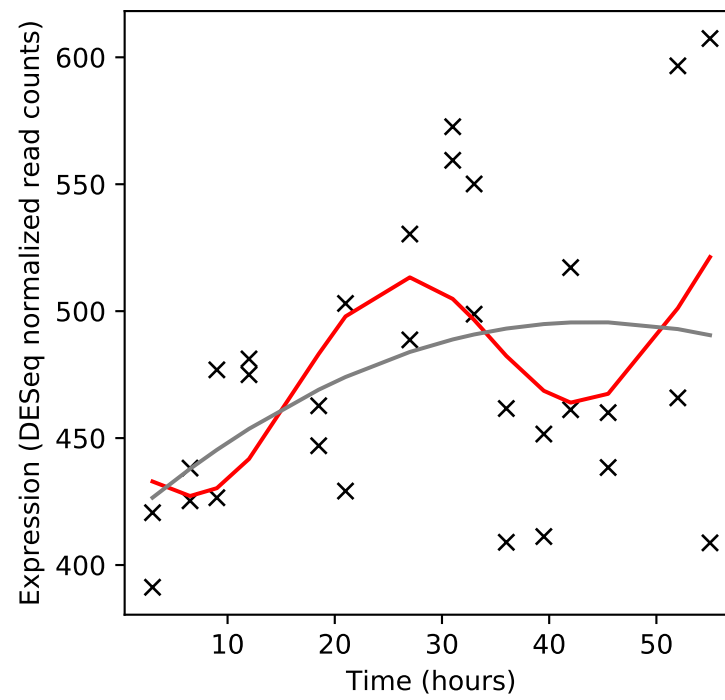
Rv2312/-



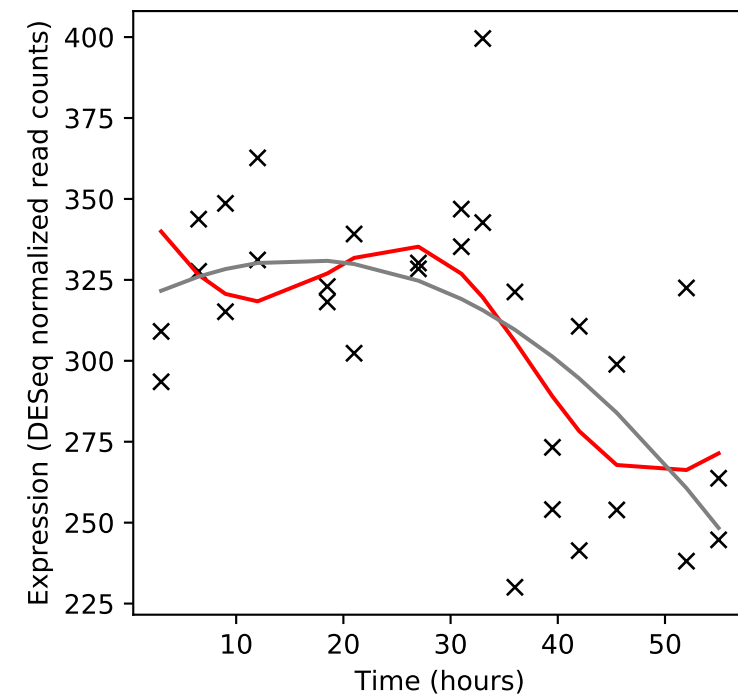
Rv2313c/-



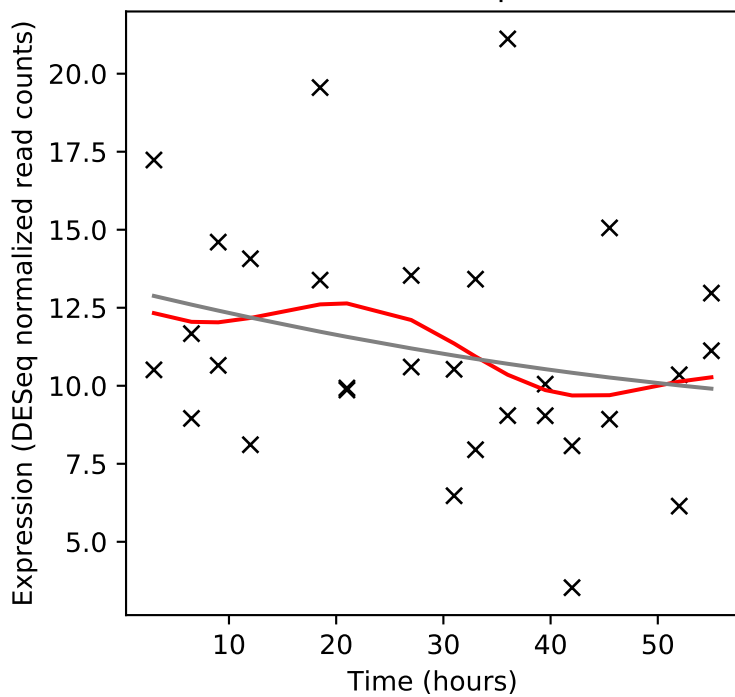
Rv2314c/-



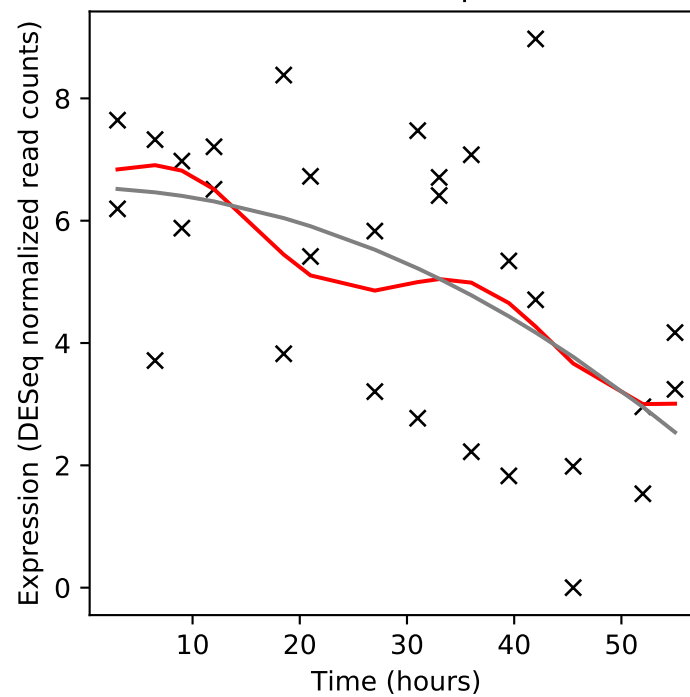
Rv2315c/-



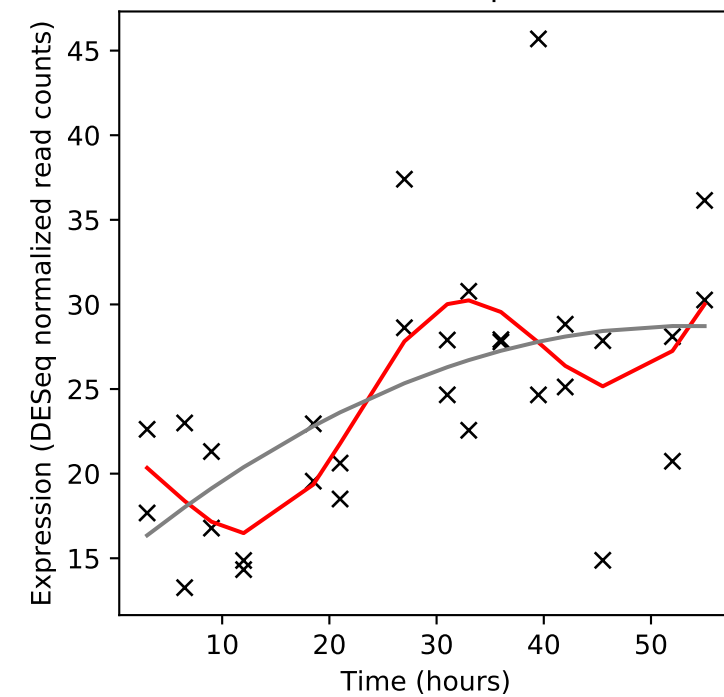
Rv2316/uspA



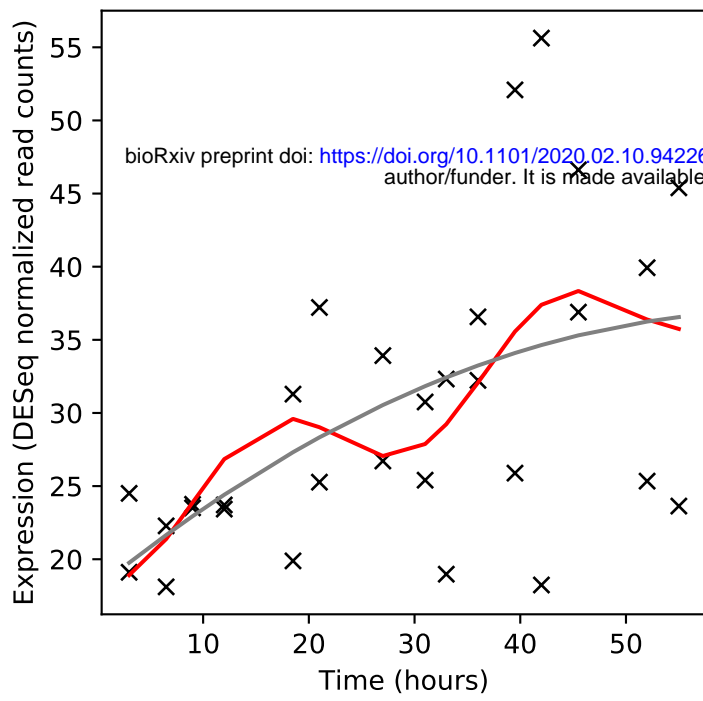
Rv2317/uspB



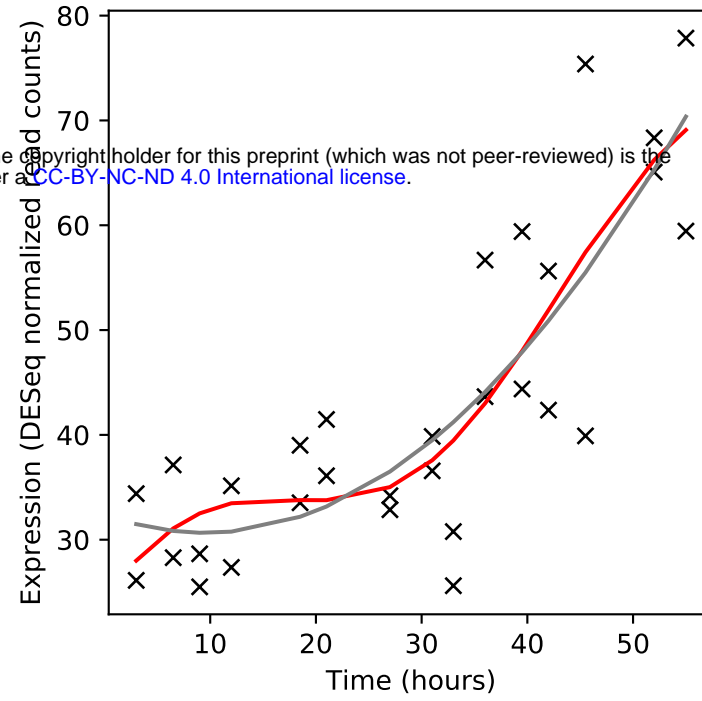
Rv2318/uspC



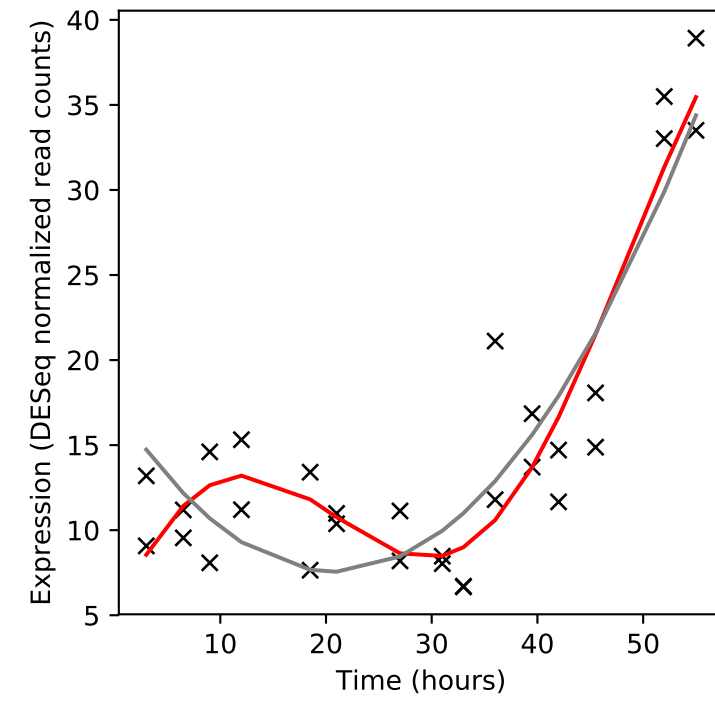
Rv2319c/-



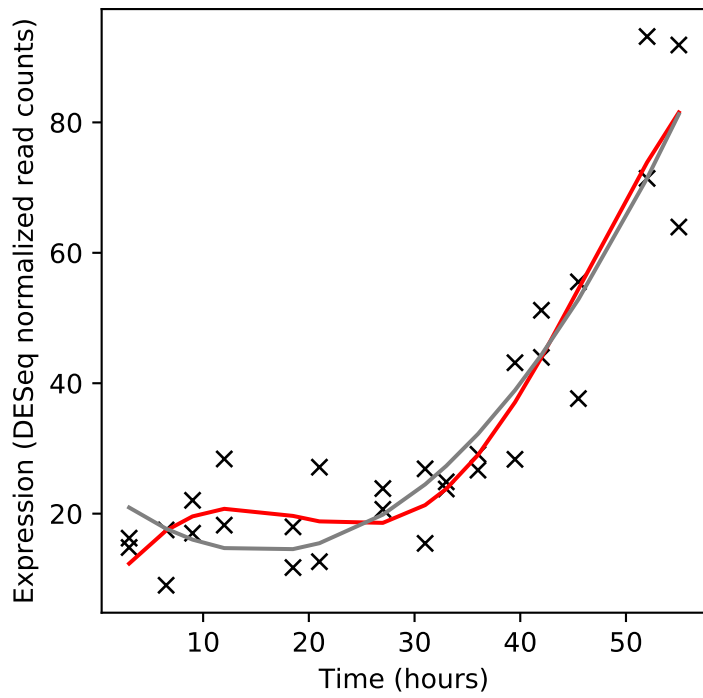
Rv2320c/rocE



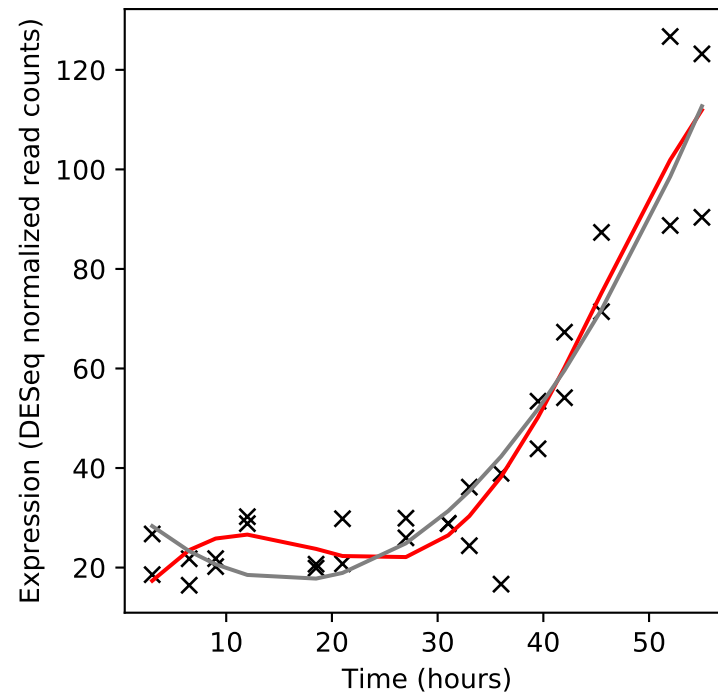
Rv2321c/rocD2



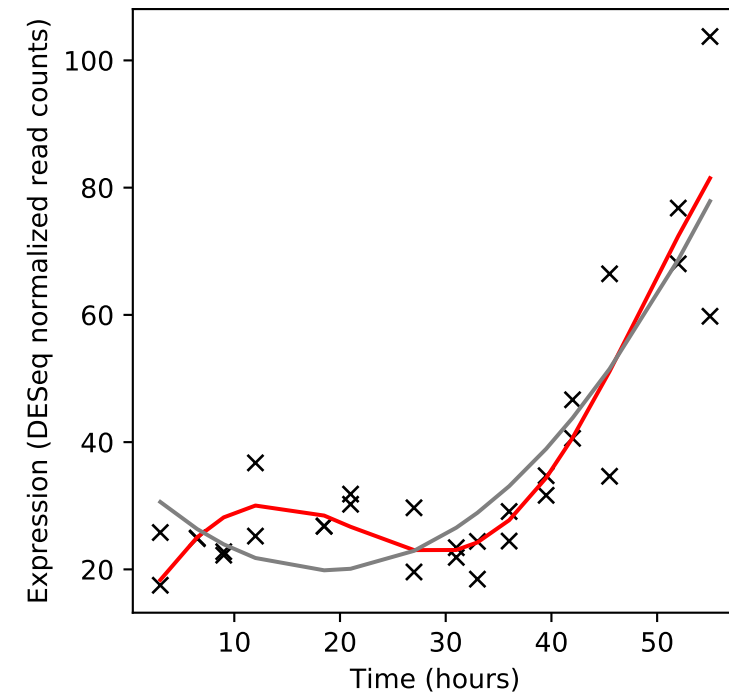
Rv2322c/rocD1



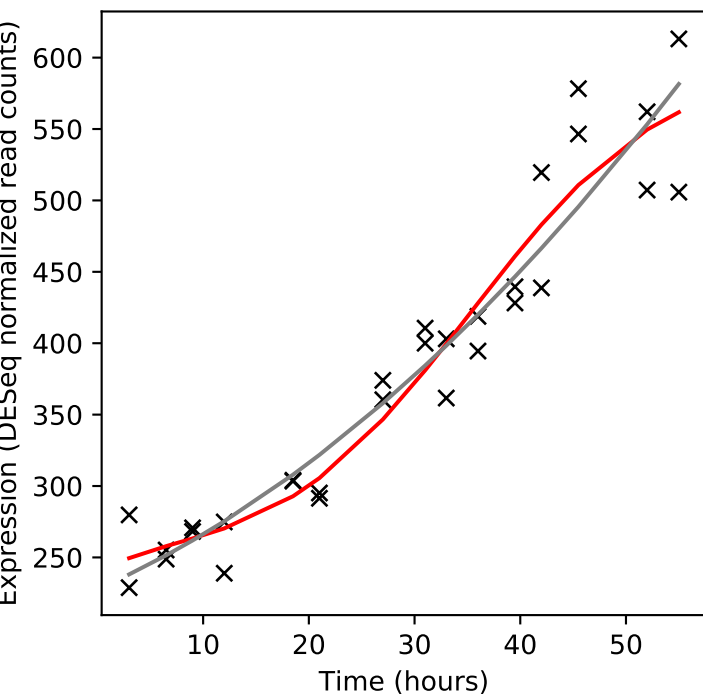
Rv2323c/-



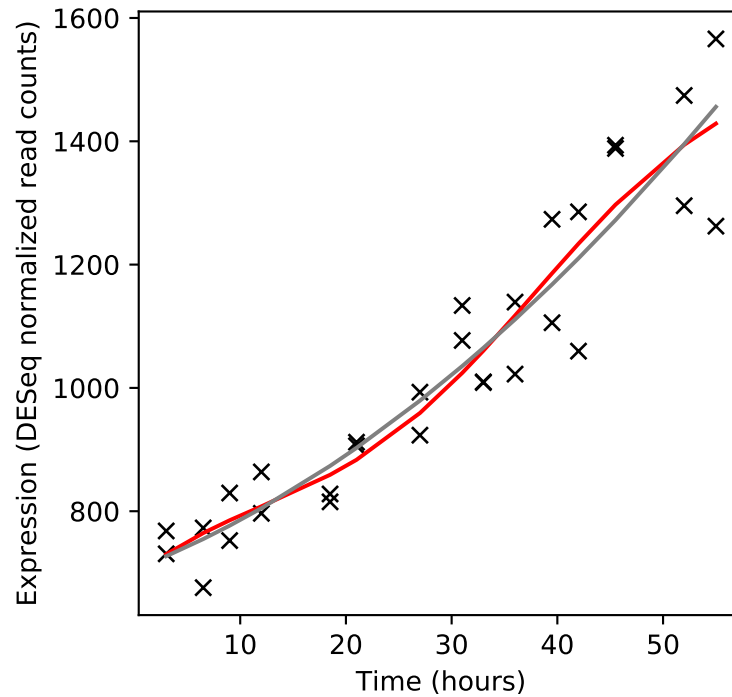
Rv2324c/-



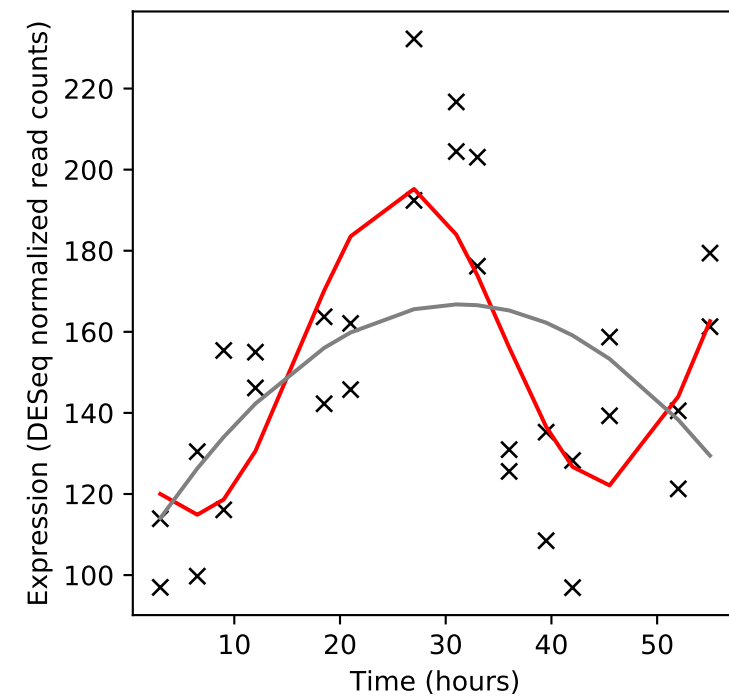
Rv2325c/-



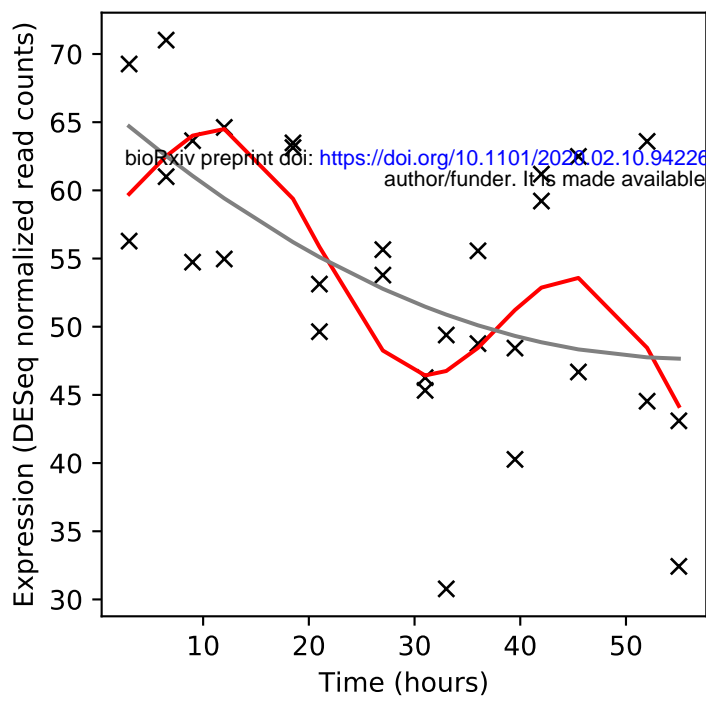
Rv2326c/-



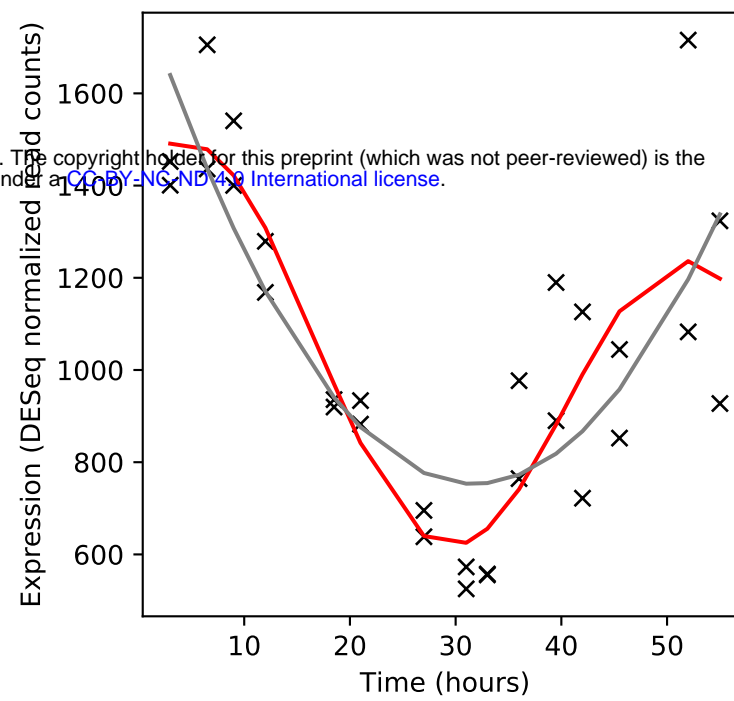
Rv2327c/-



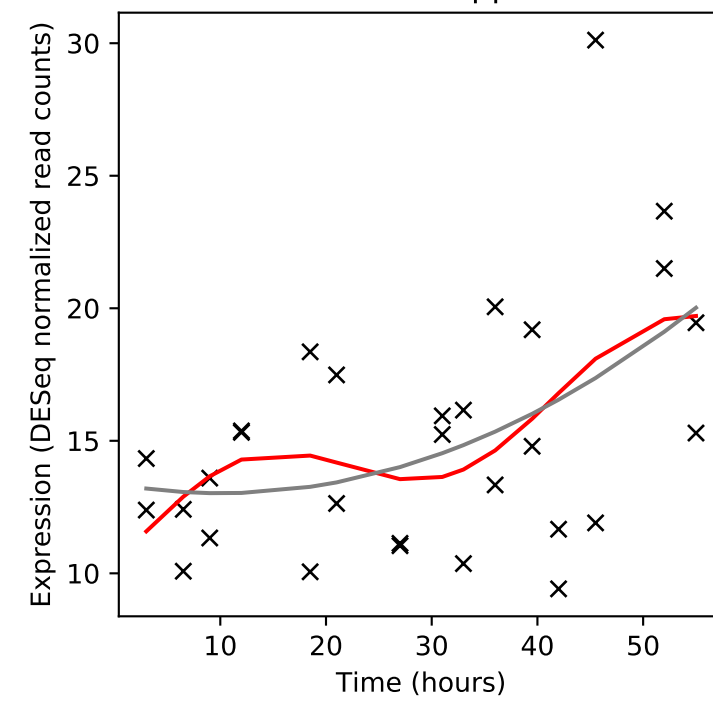
Rv2328/PE23



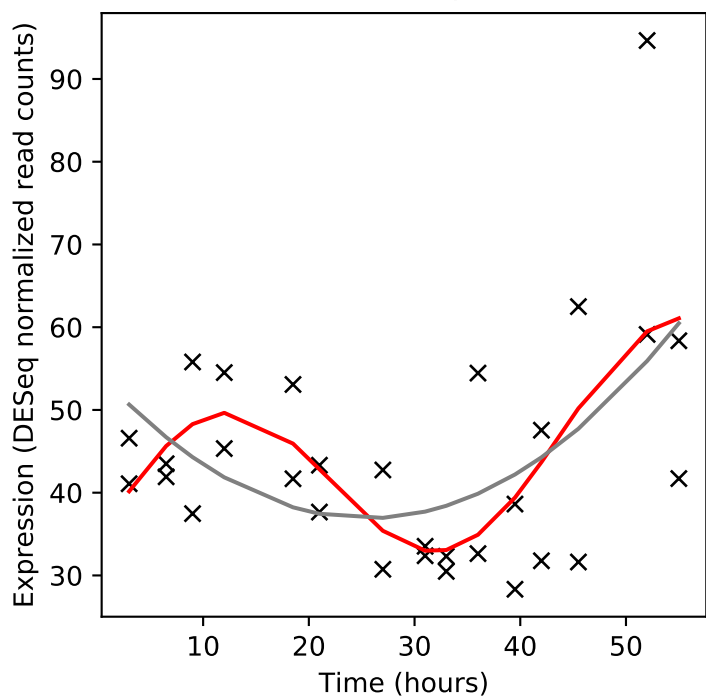
Rv2329c/narK1



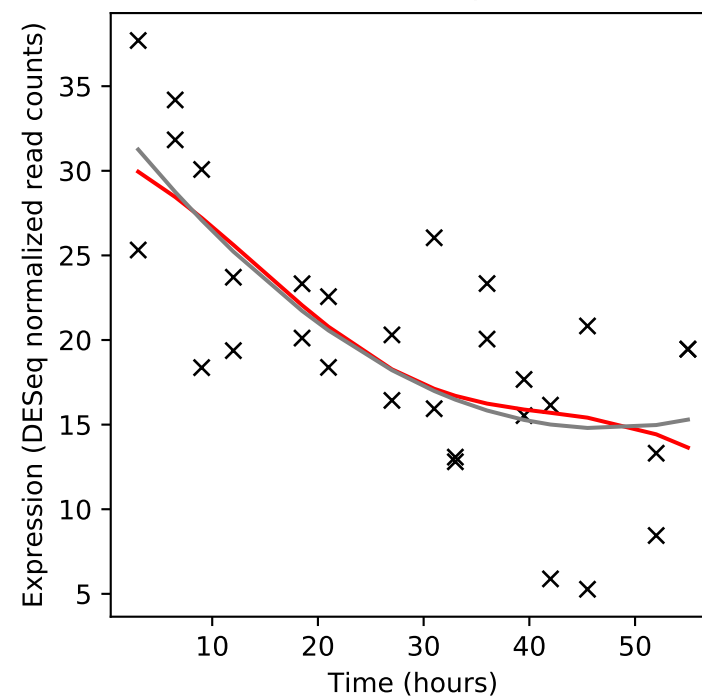
Rv2330c/lppP



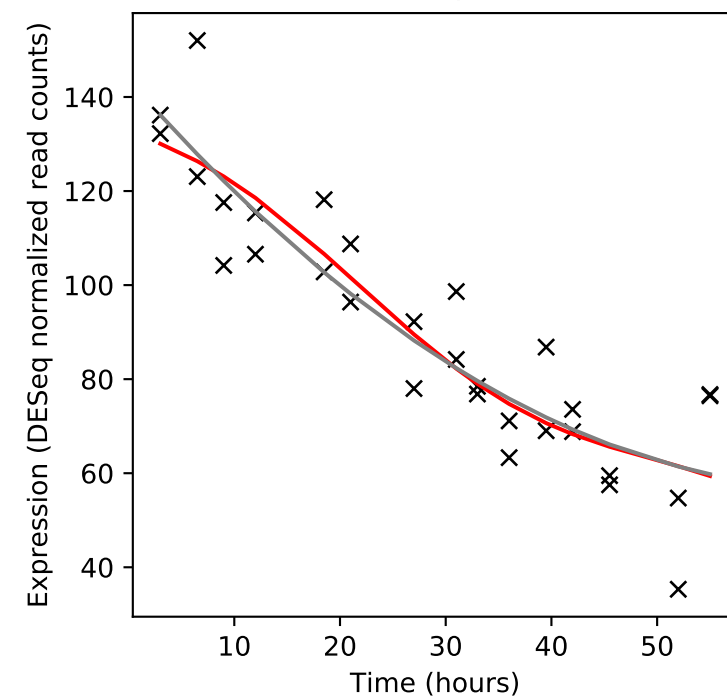
Rv2331/-



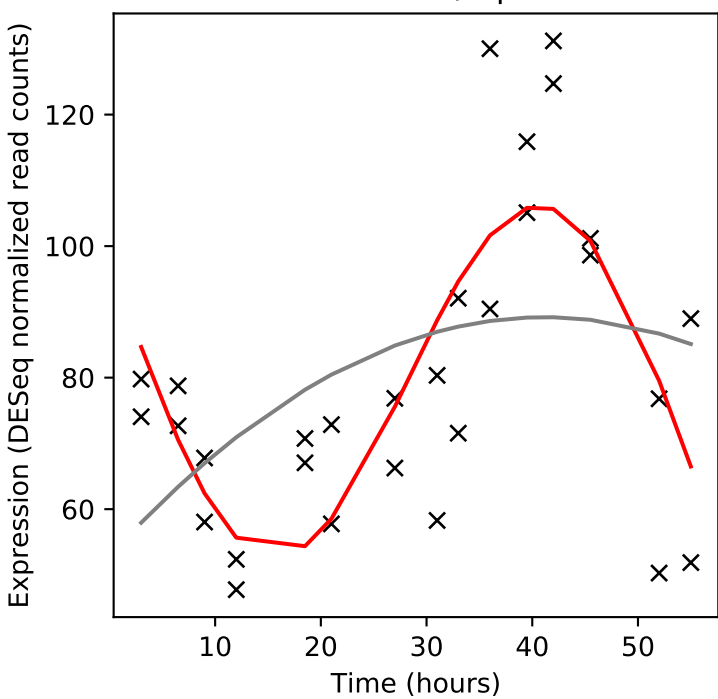
Rv2331A/-



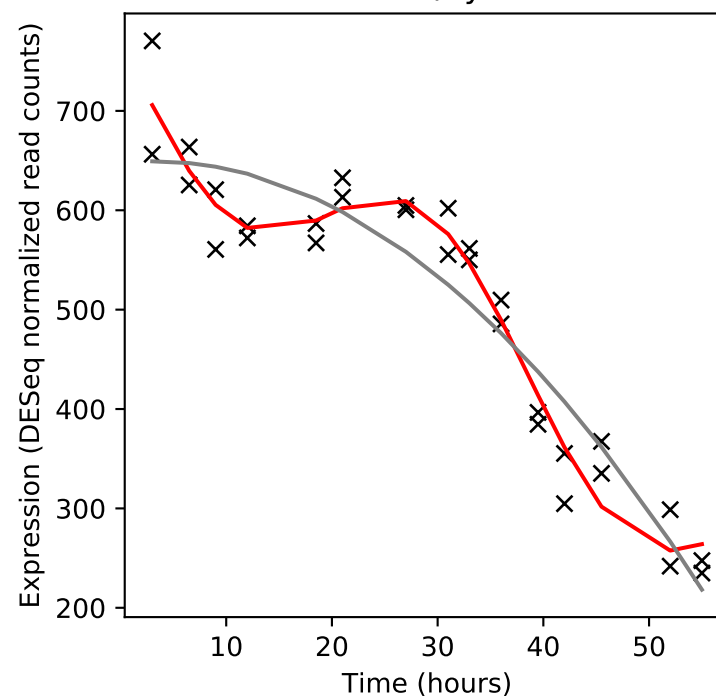
Rv2332/mez



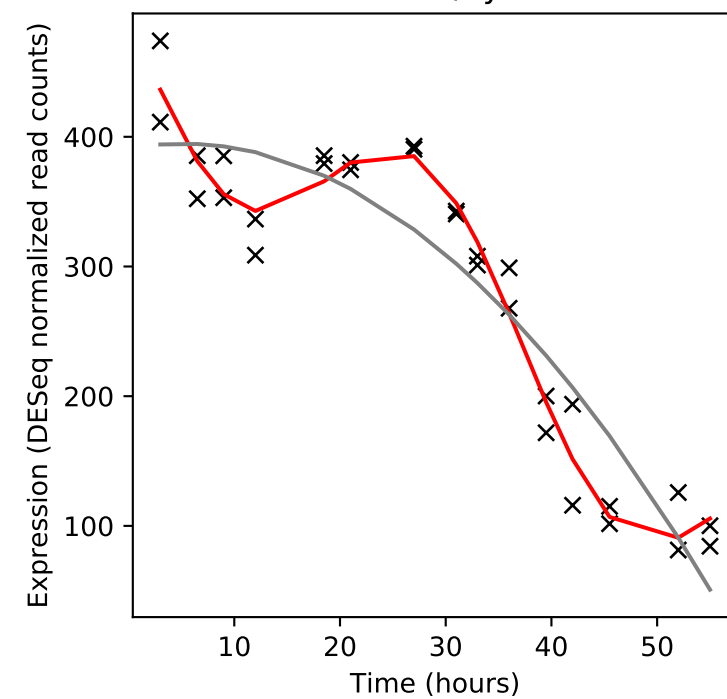
Rv2333c/stp



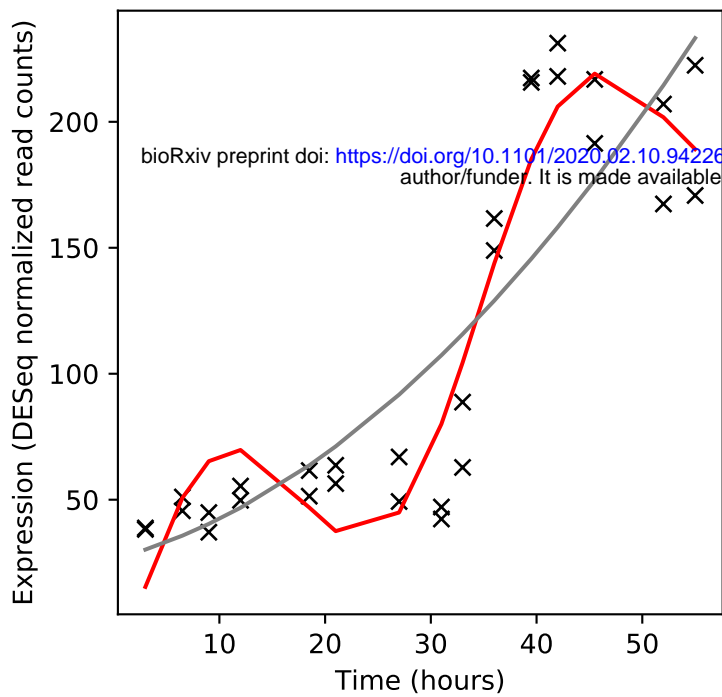
Rv2334/cysK1



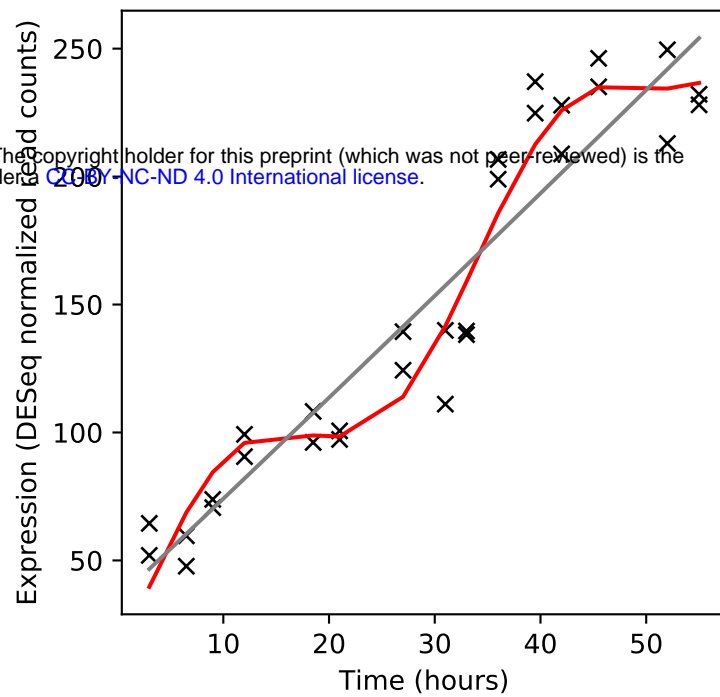
Rv2335/cysE



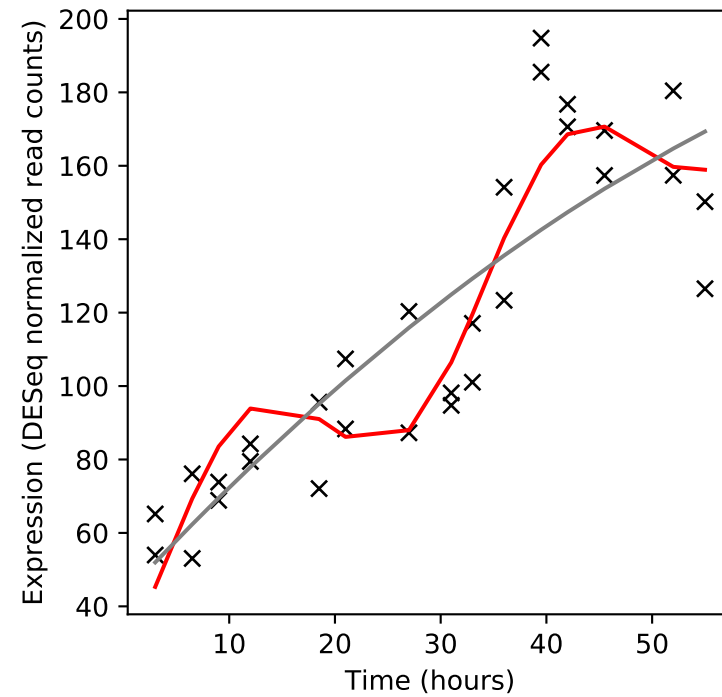
Rv2336/-



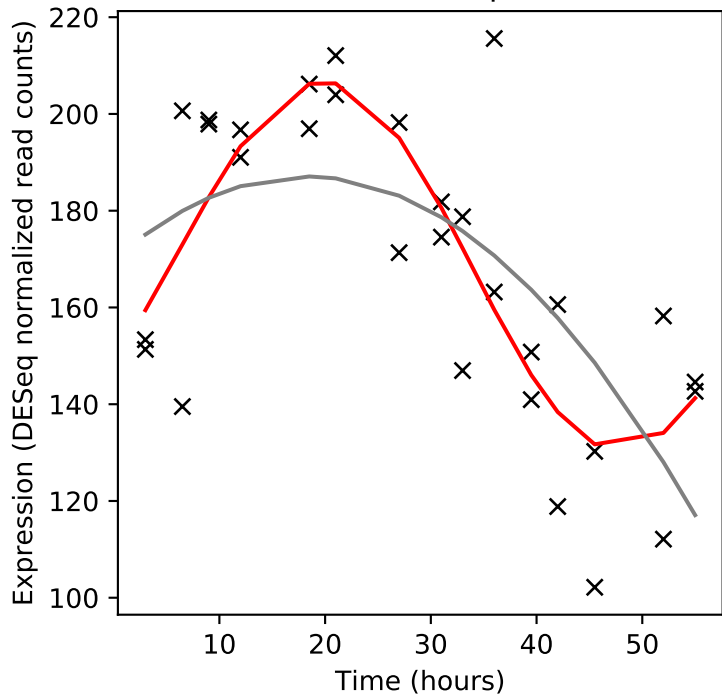
Rv2337c/-



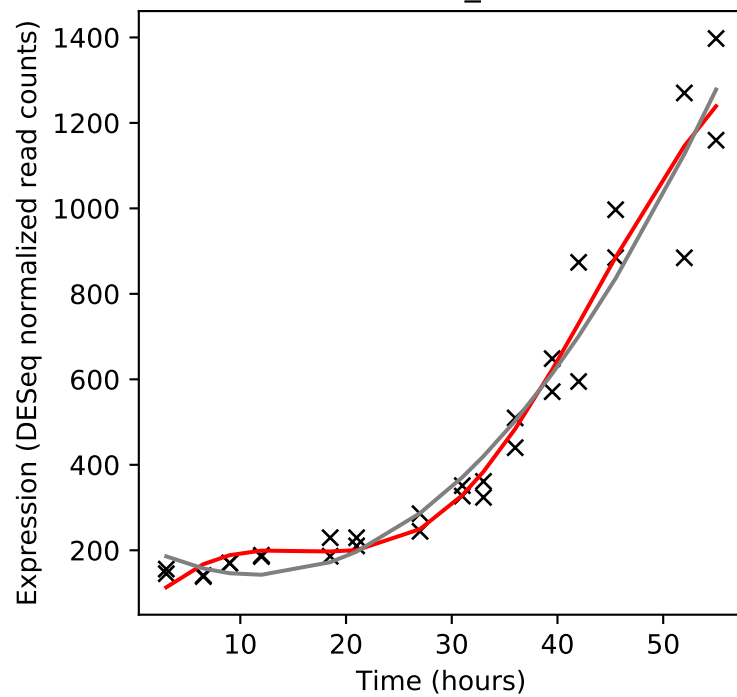
Rv2338c/moeW



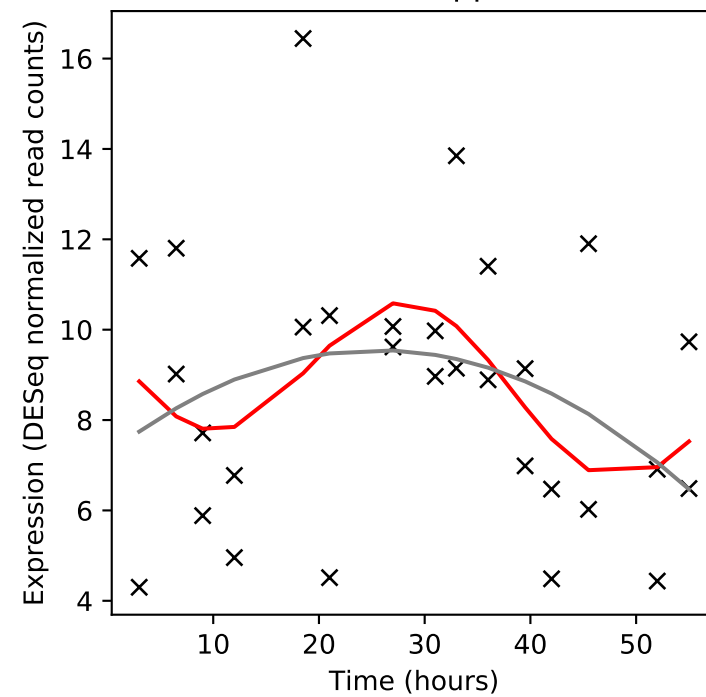
Rv2339/mmpL9



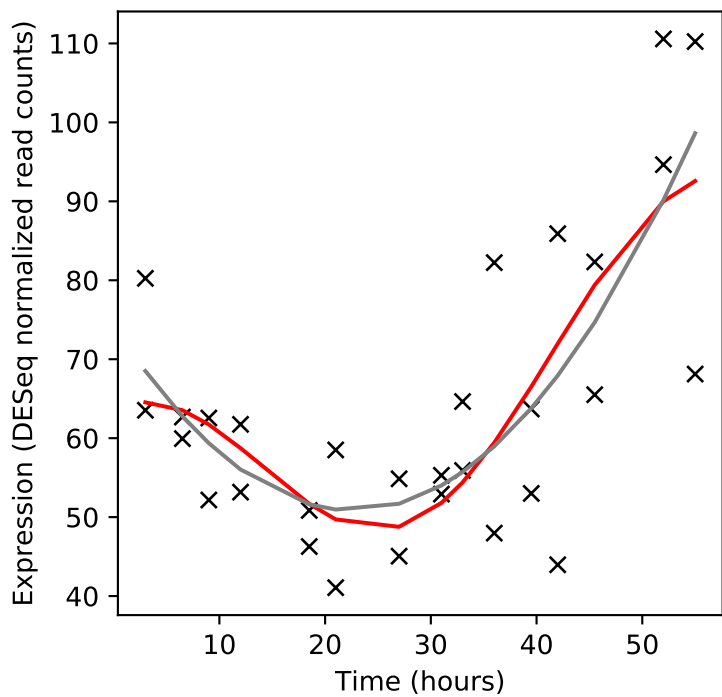
Rv2340c/PE_PGRS39



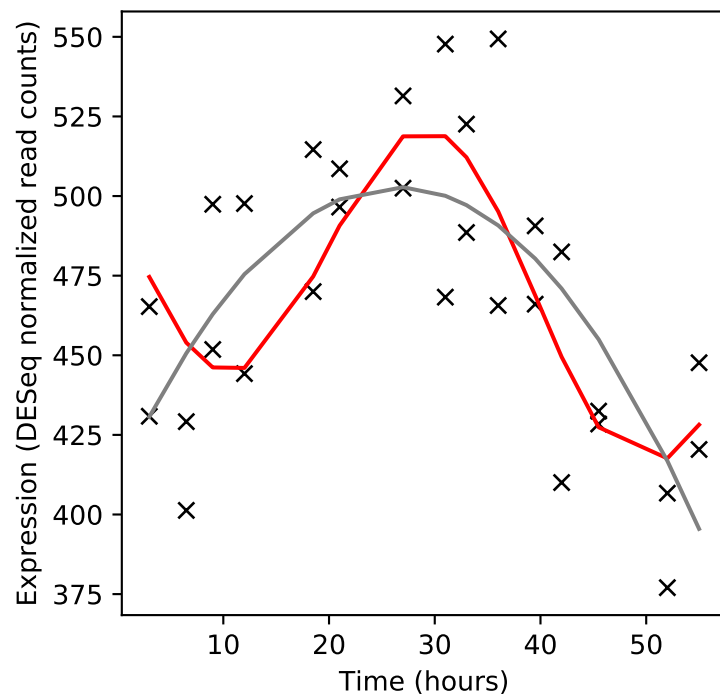
Rv2341/lppQ



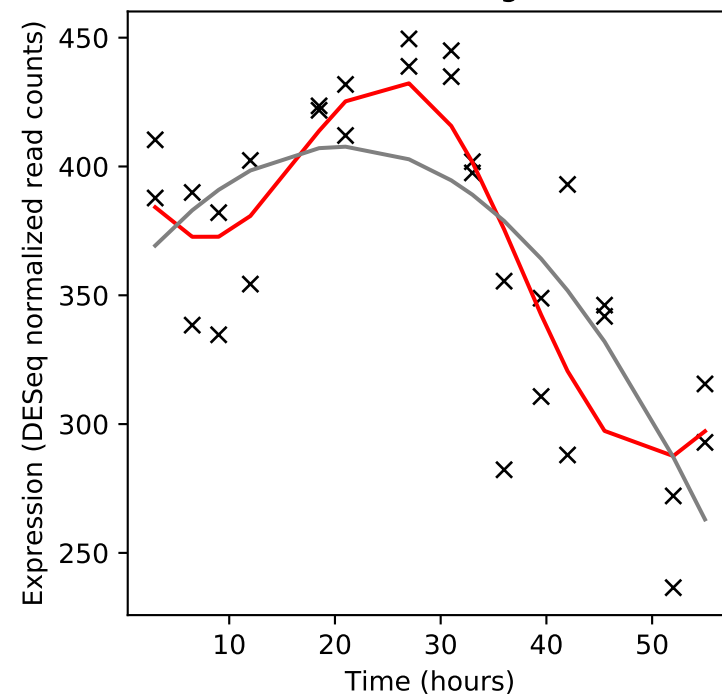
Rv2342/-



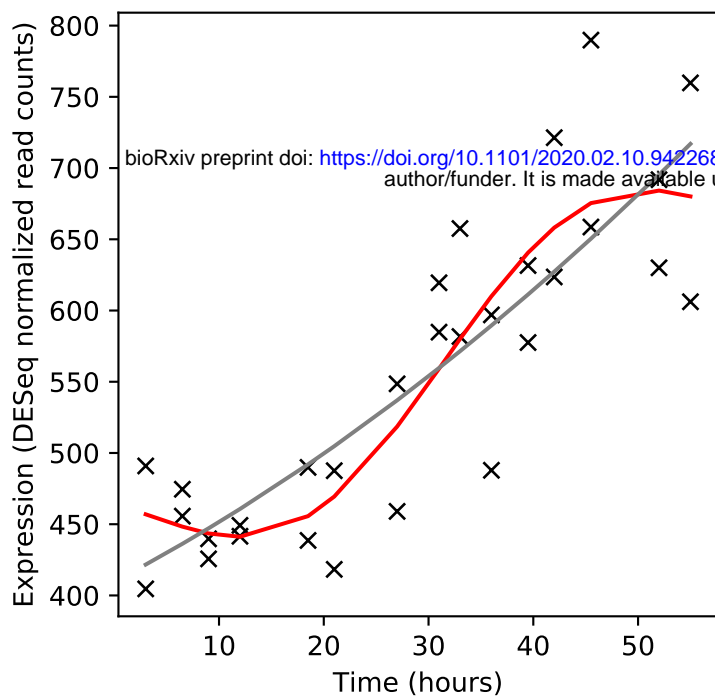
Rv2343c/dnaG



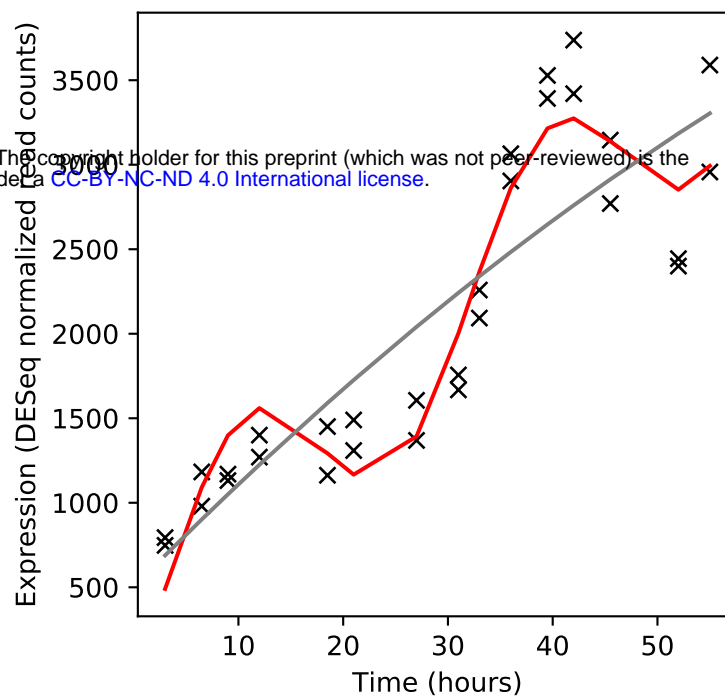
Rv2344c/dgt



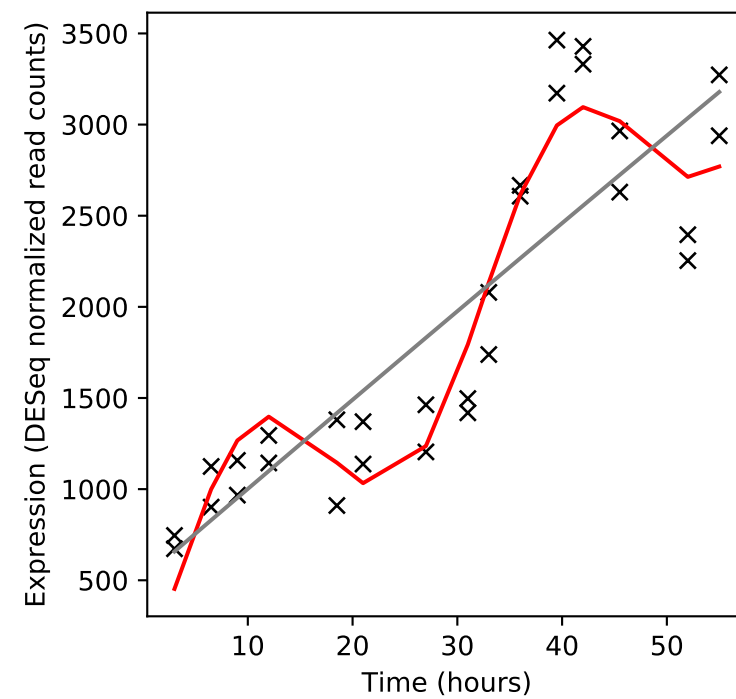
Rv2345/-



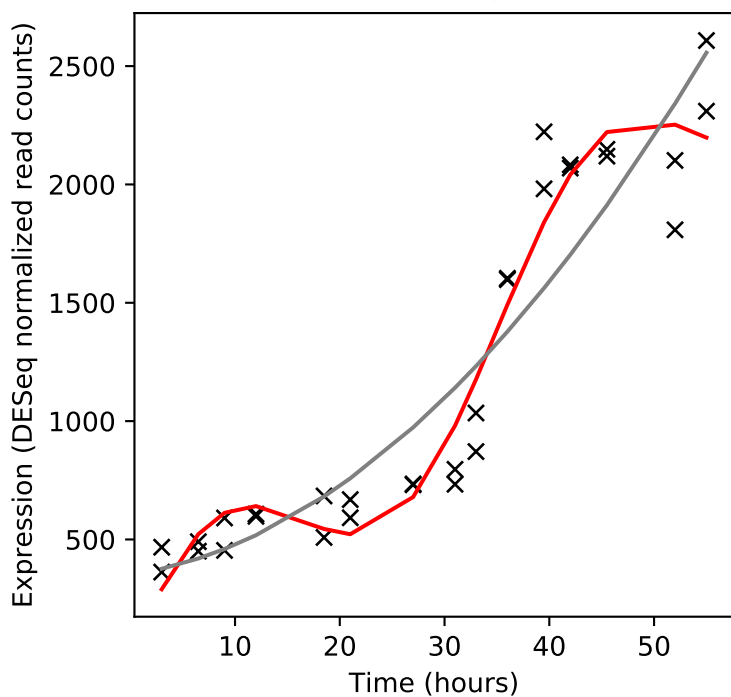
Rv2346c/esxO



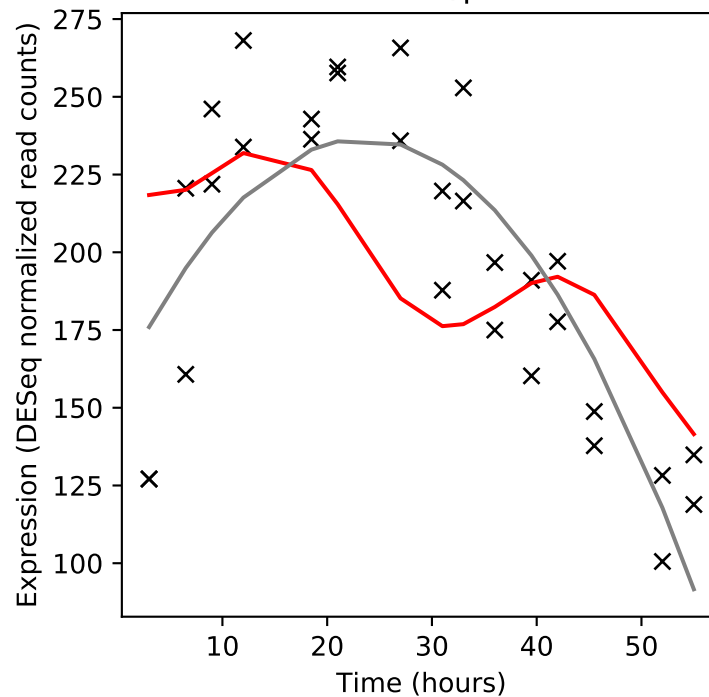
Rv2347c/esxP



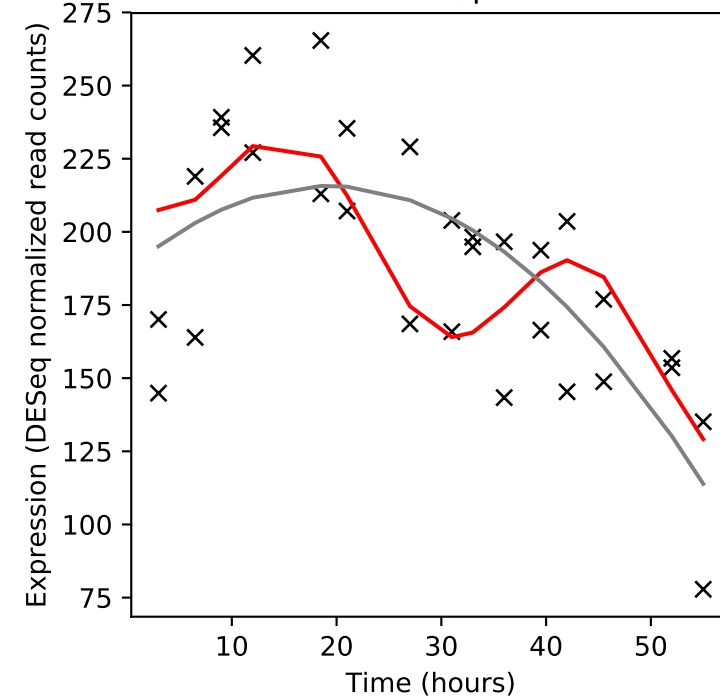
Rv2348c/-



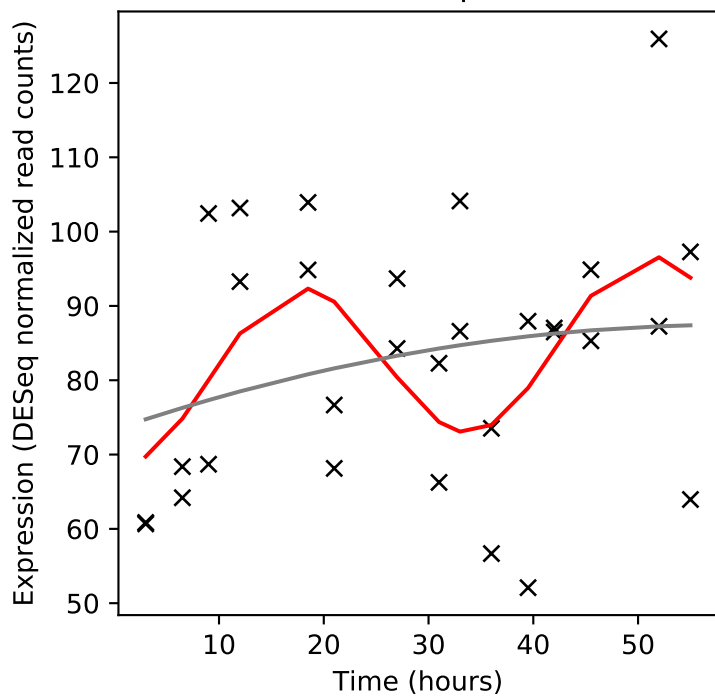
Rv2349c/plcC



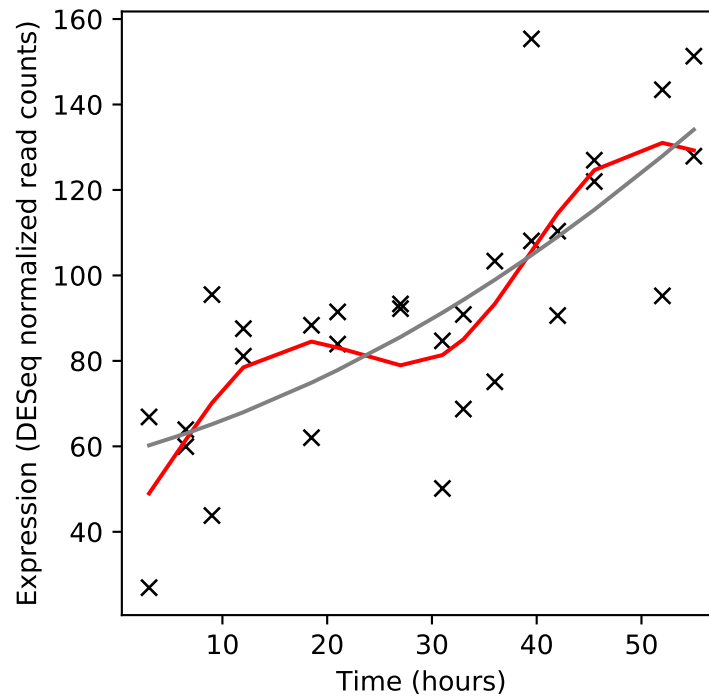
Rv2350c/plcB



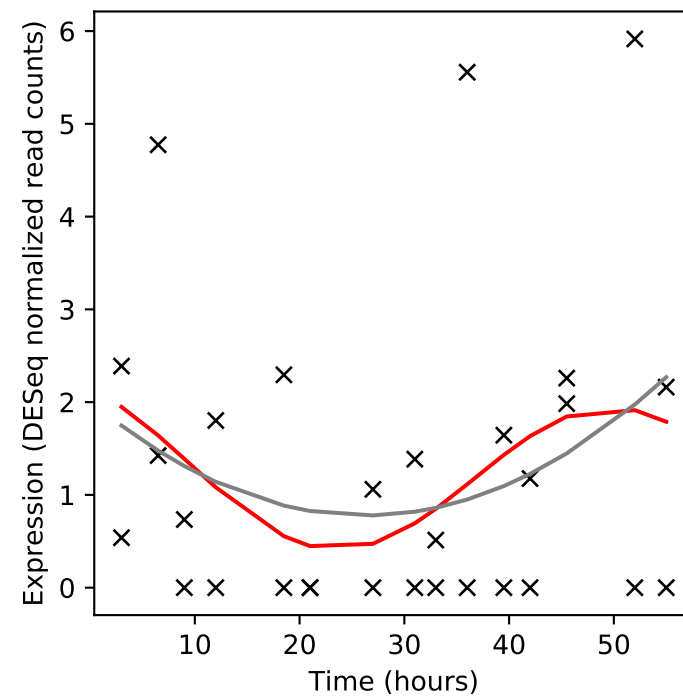
Rv2351c/plcA



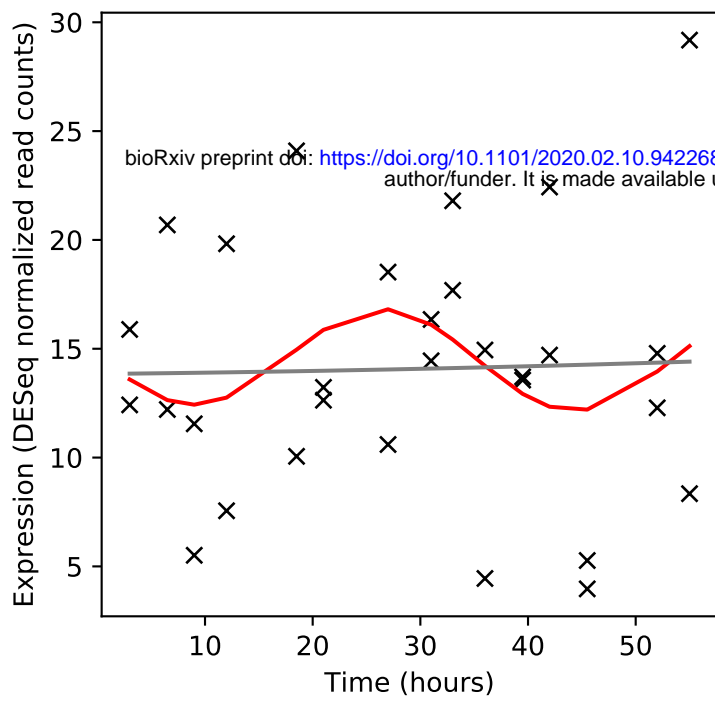
Rv2352c/PPE38



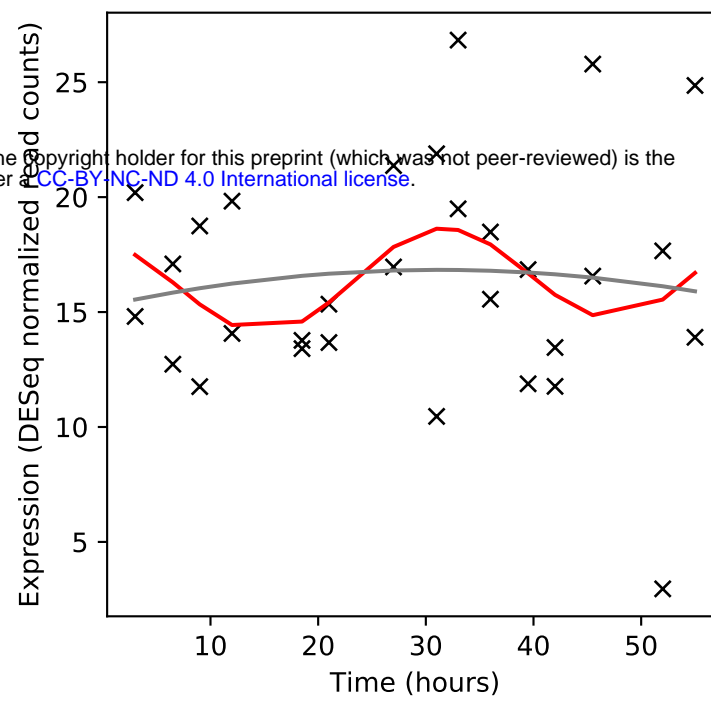
Rv2353c/PPE39



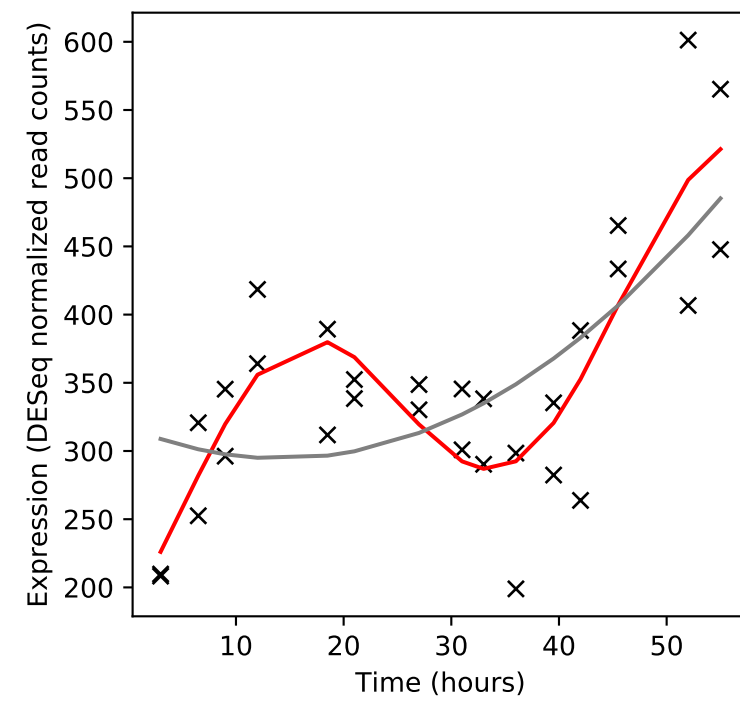
Rv2354/-



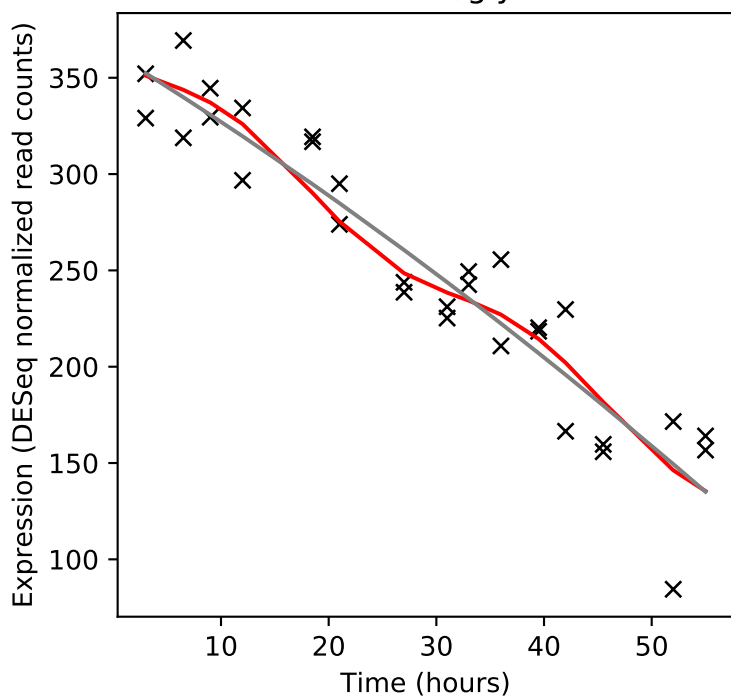
Rv2355/-



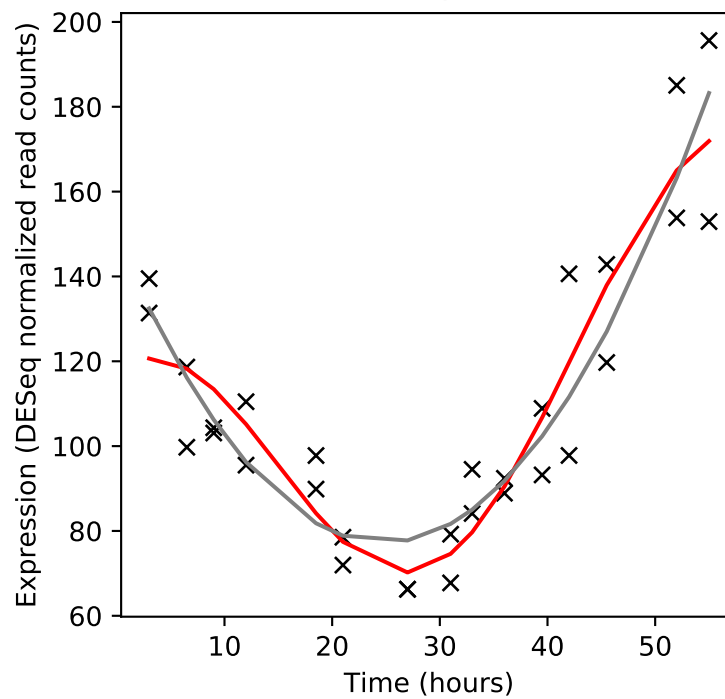
Rv2356c/PPE40



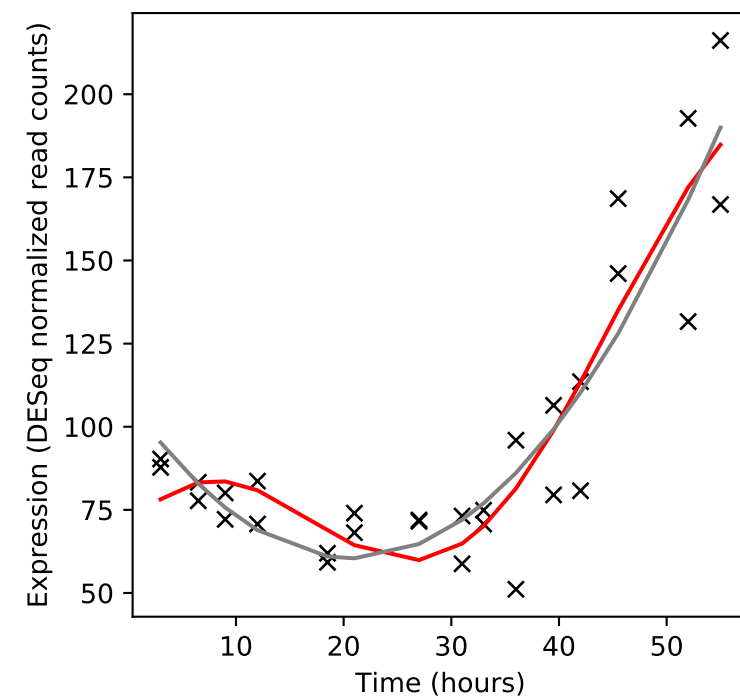
Rv2357c/glyS



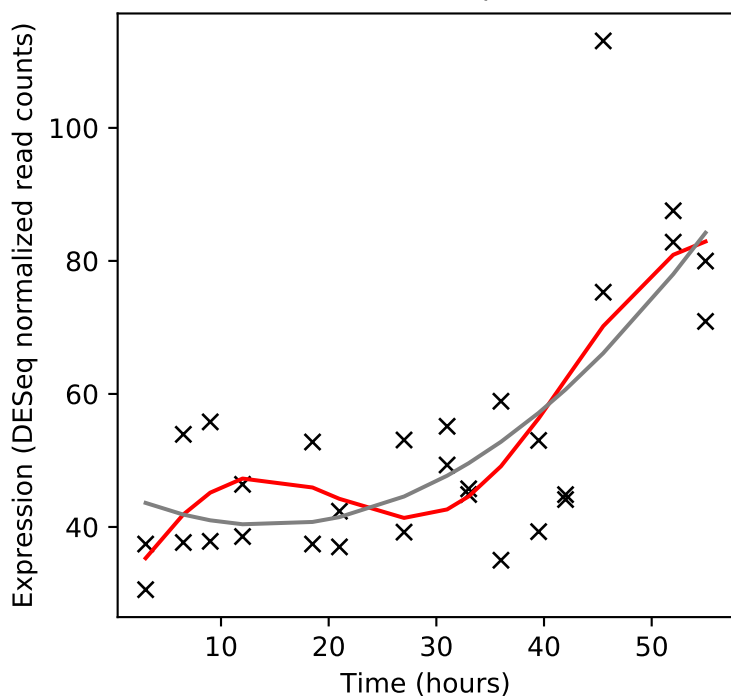
Rv2358/smtB



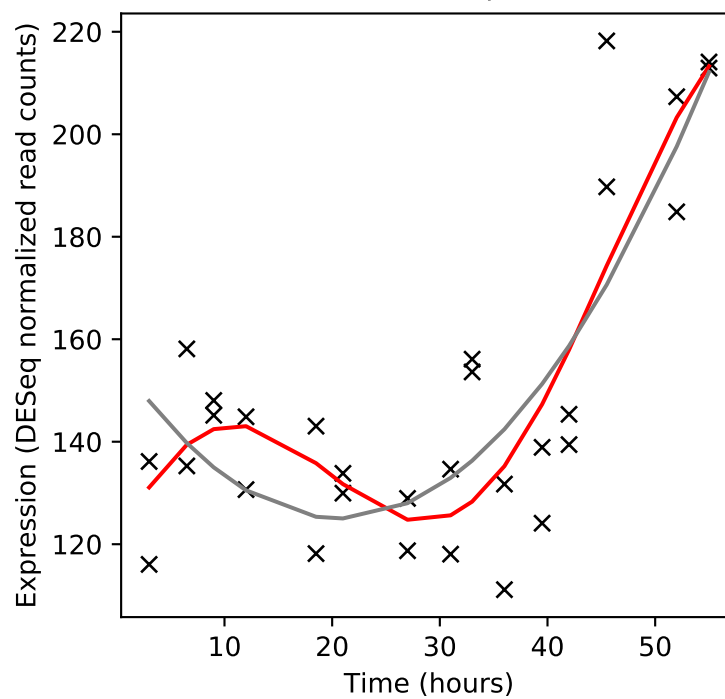
Rv2359/zur



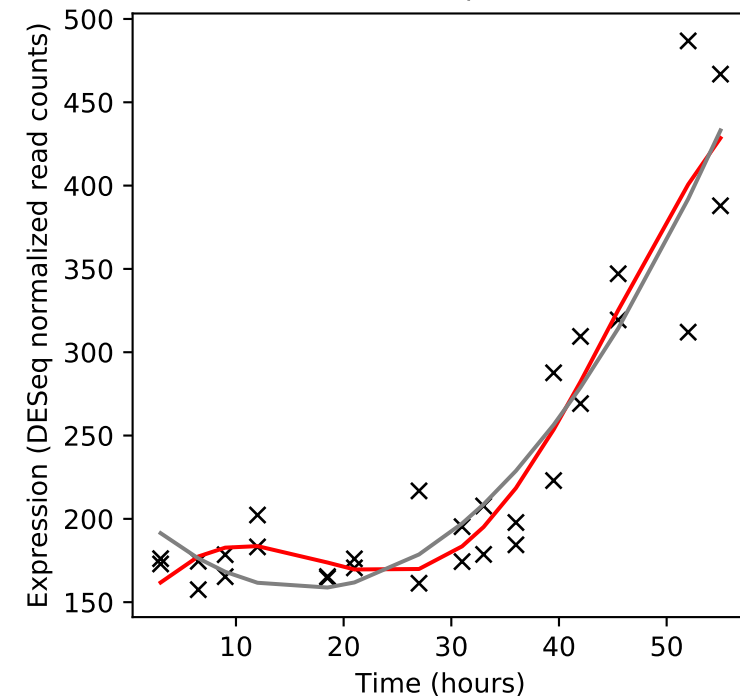
Rv2360c/-



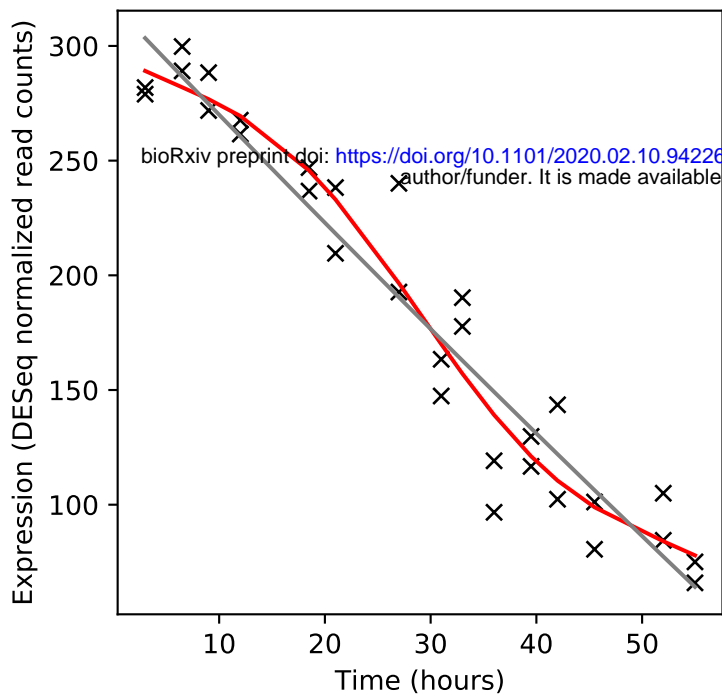
Rv2361c/-



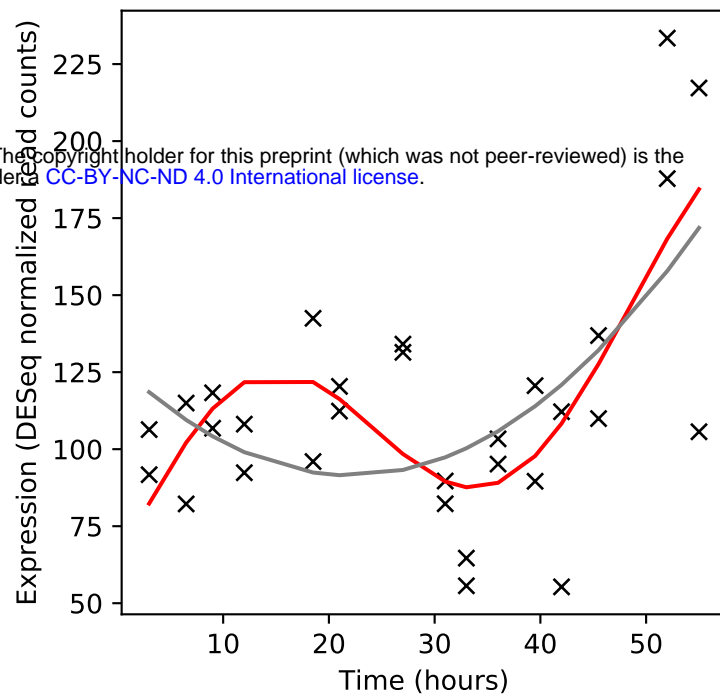
Rv2362c/recO



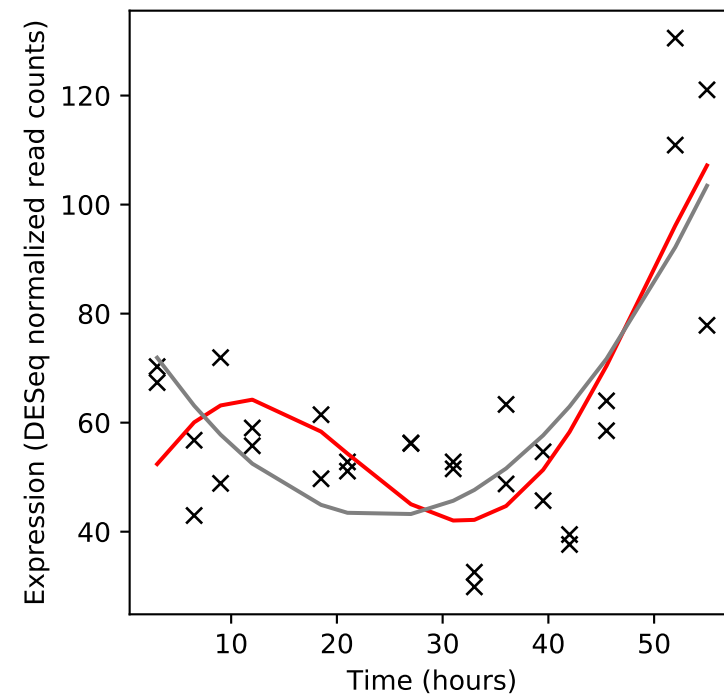
Rv2363/amiA2



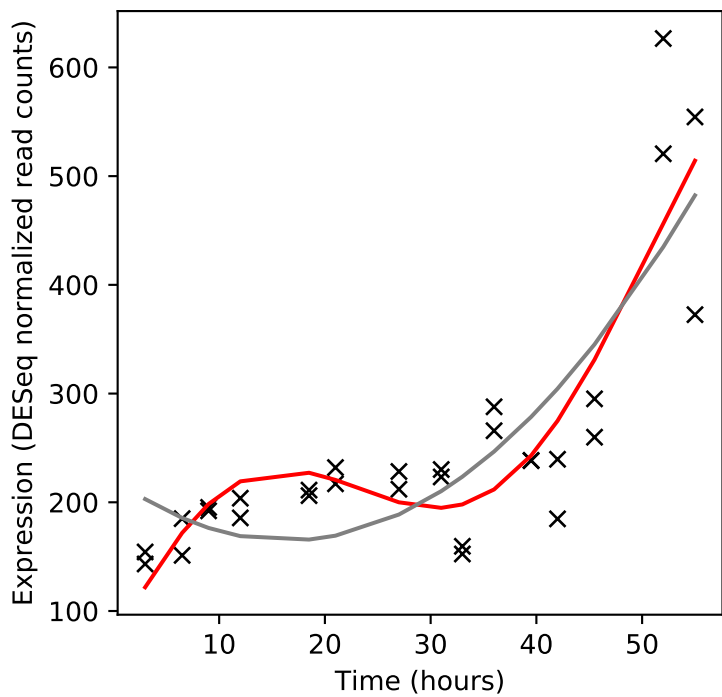
Rv2364c/era



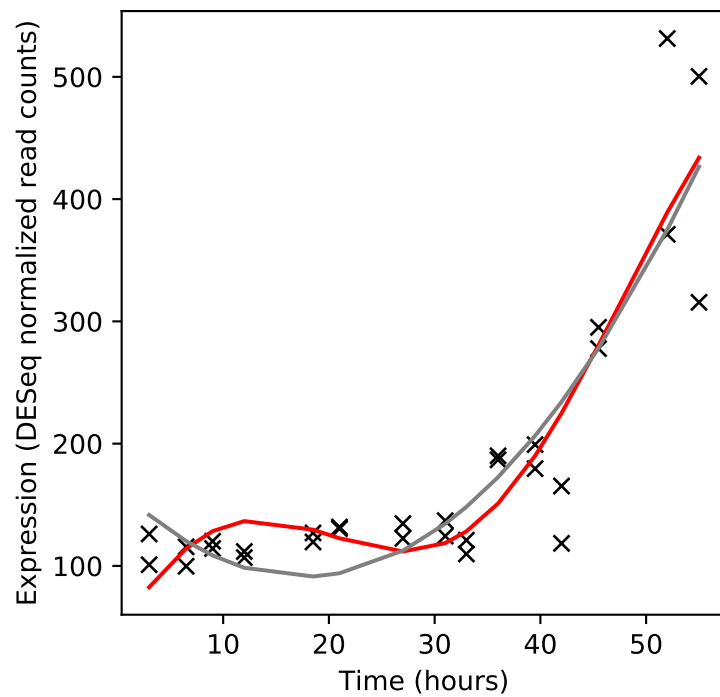
Rv2365c/-



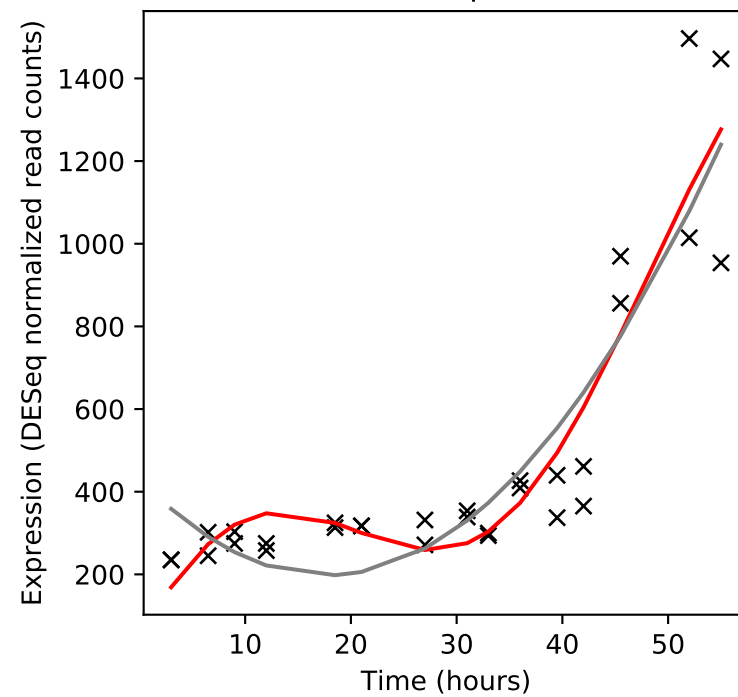
Rv2366c/-



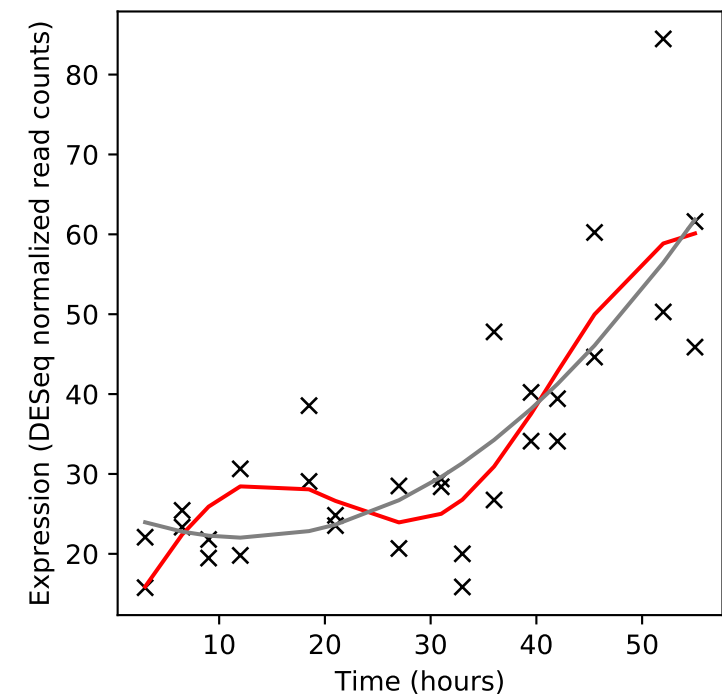
Rv2367c/-



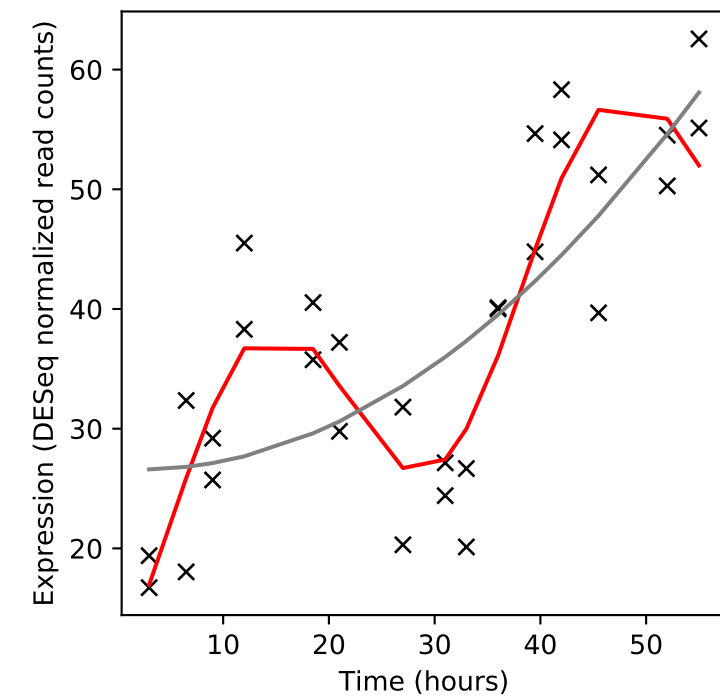
Rv2368c/phoH1



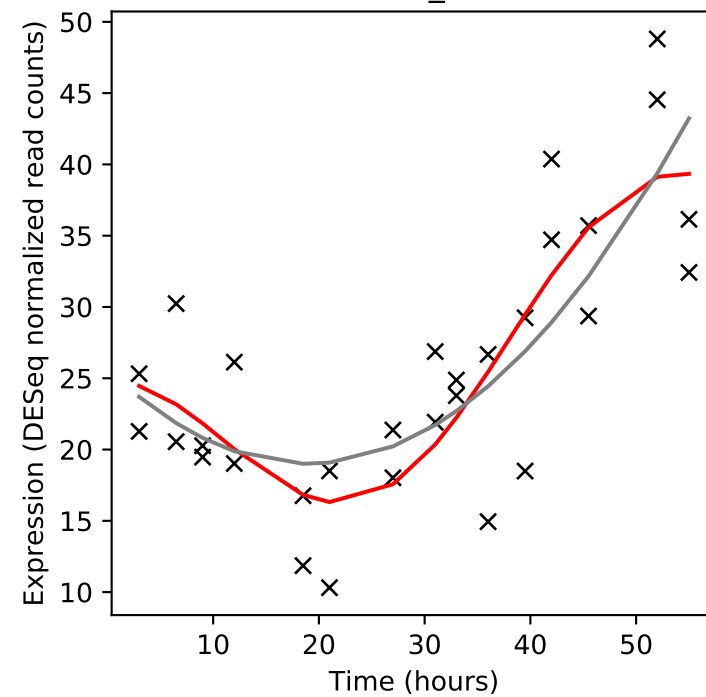
Rv2369c/-



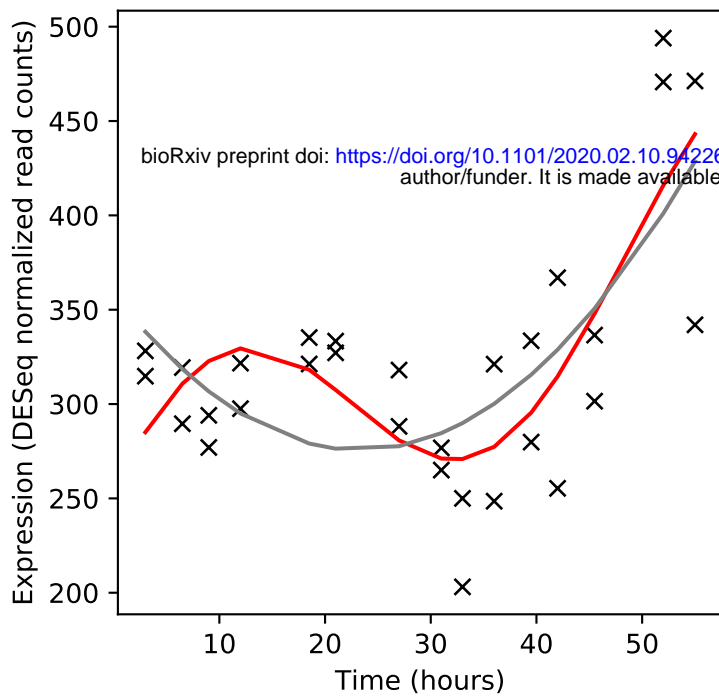
Rv2370c/-



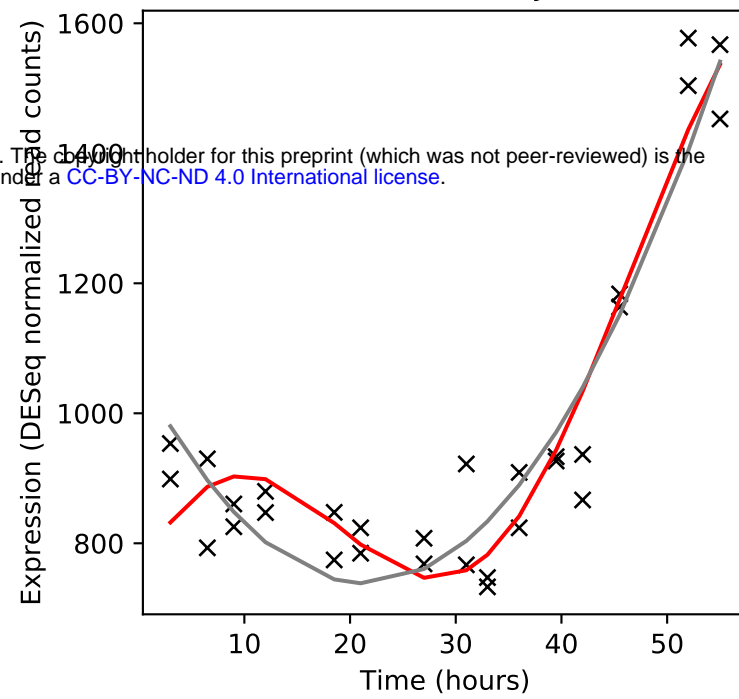
Rv2371/PE_PGRS40



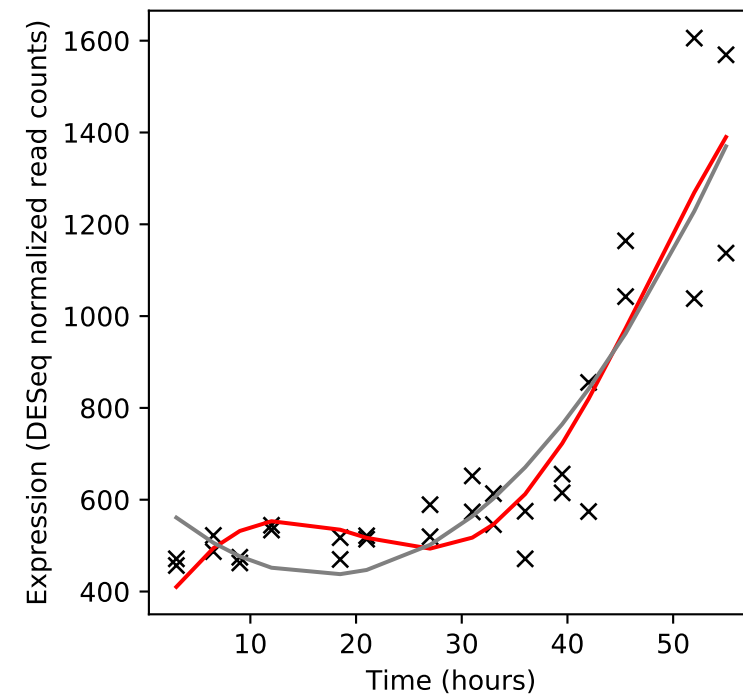
Rv2372c/-



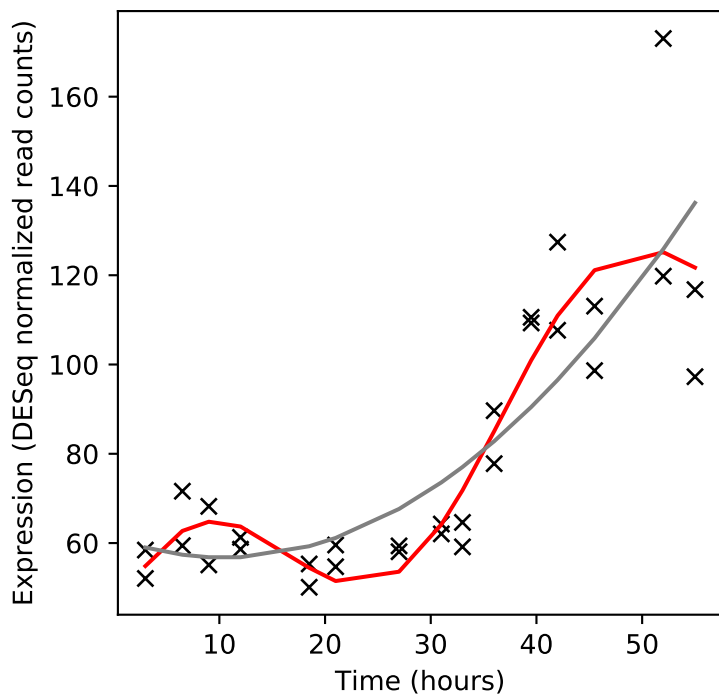
Rv2373c/dnaJ2



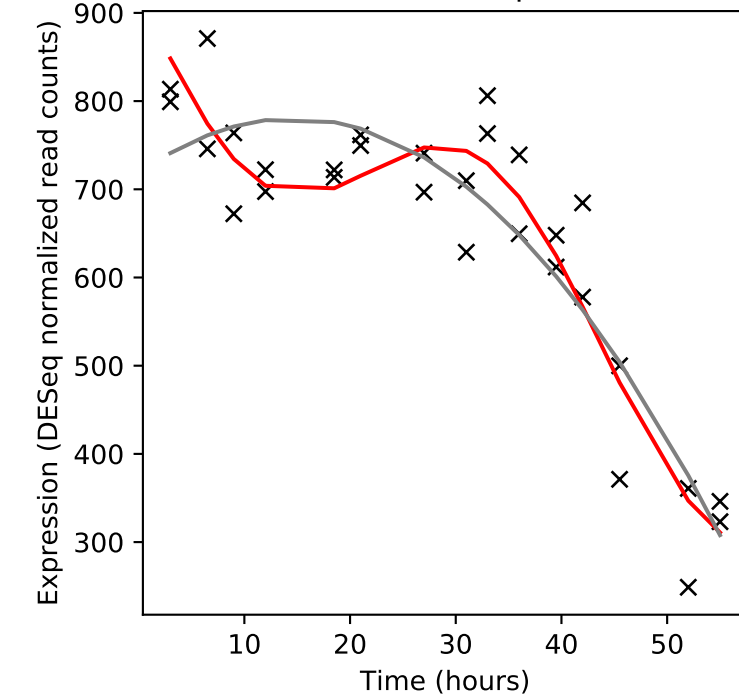
Rv2374c/hrcA



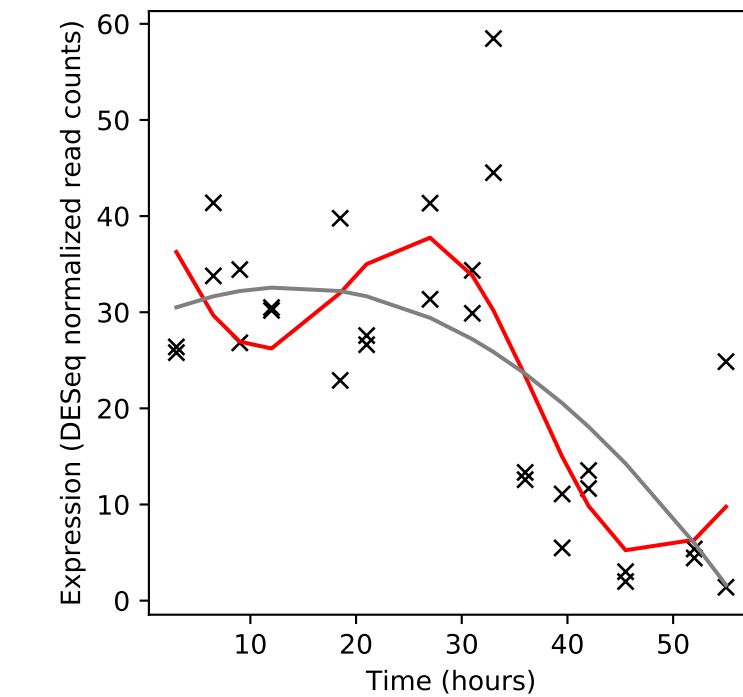
Rv2375/-



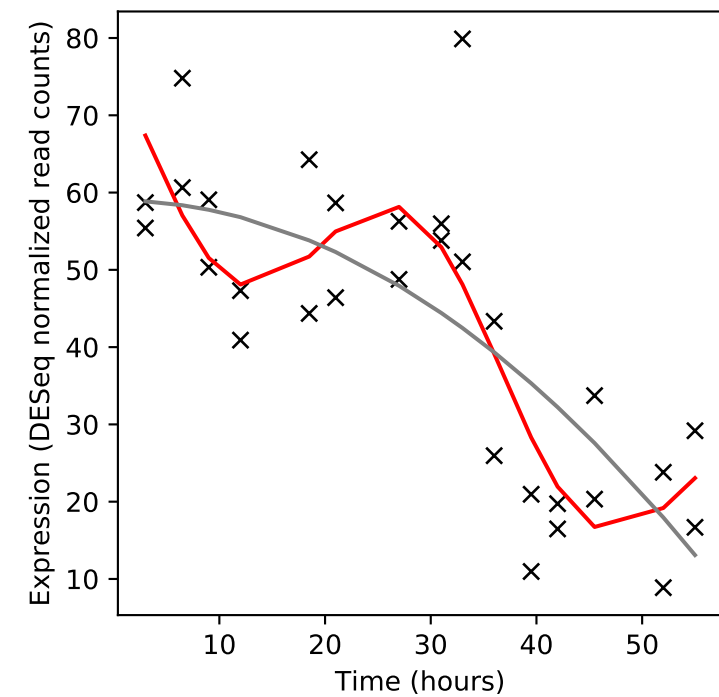
Rv2376c/cfp2



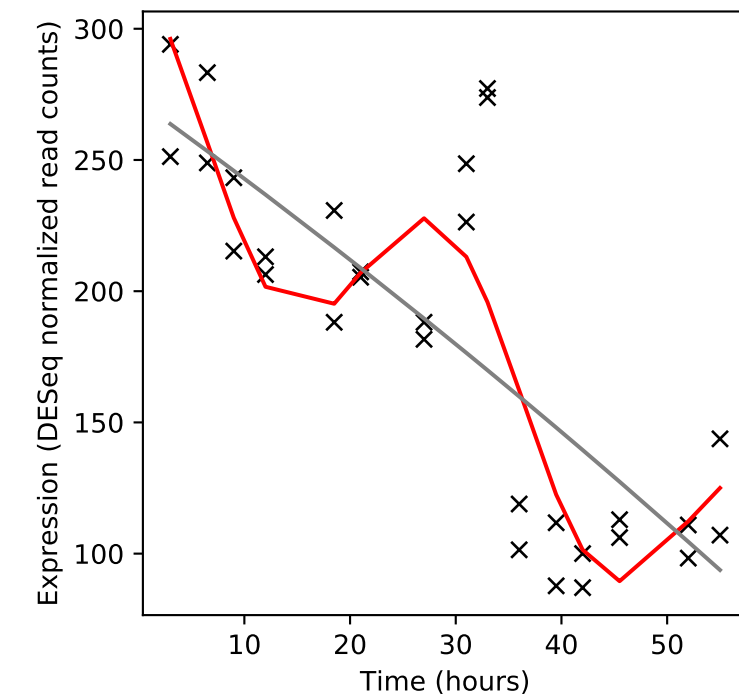
Rv2377c/mbtH



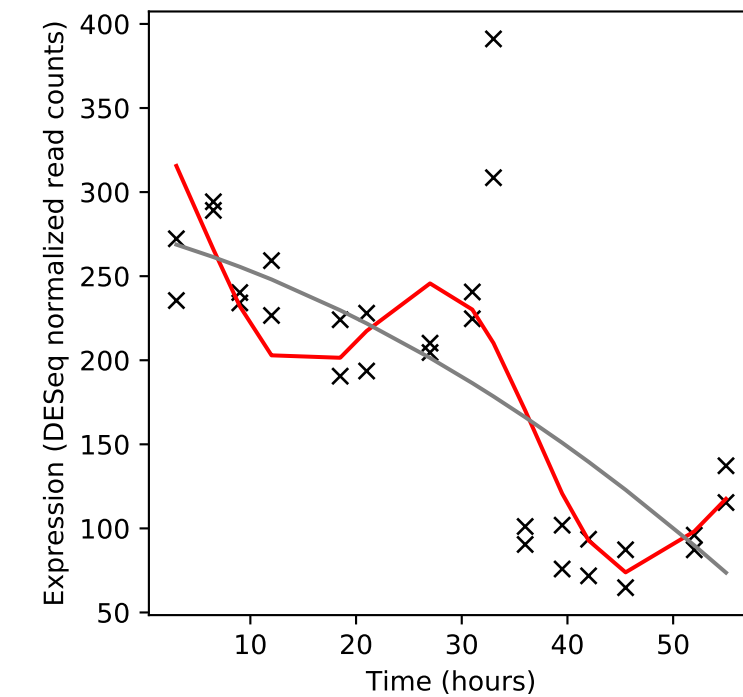
Rv2378c/mbtG



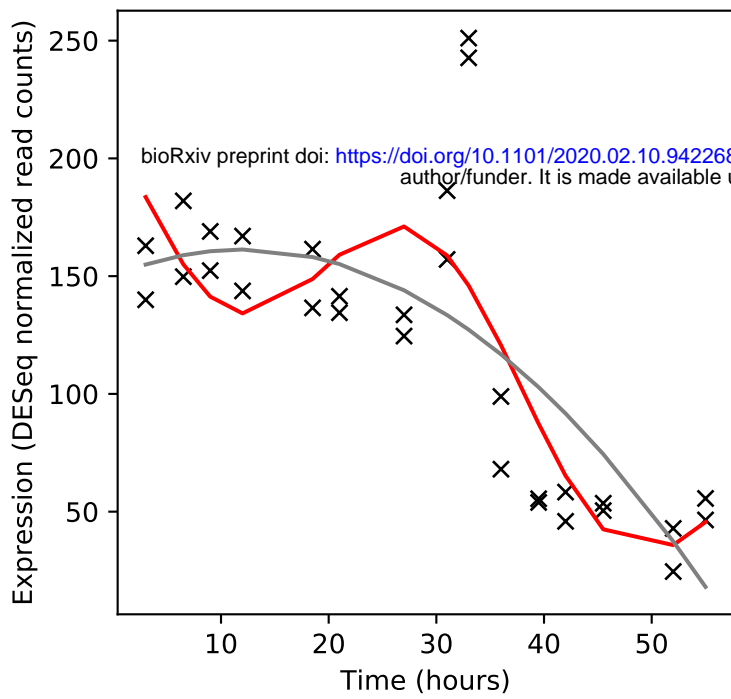
Rv2379c/mbtF



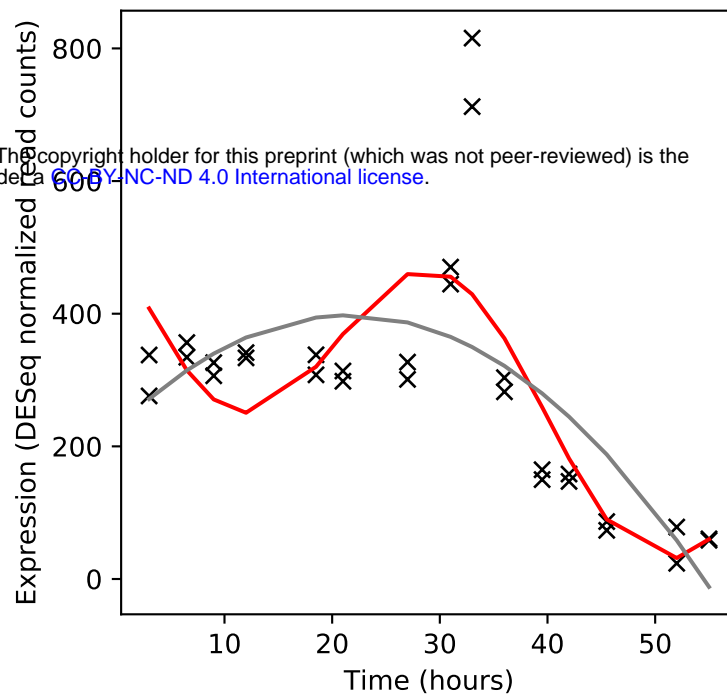
Rv2380c/mbtE



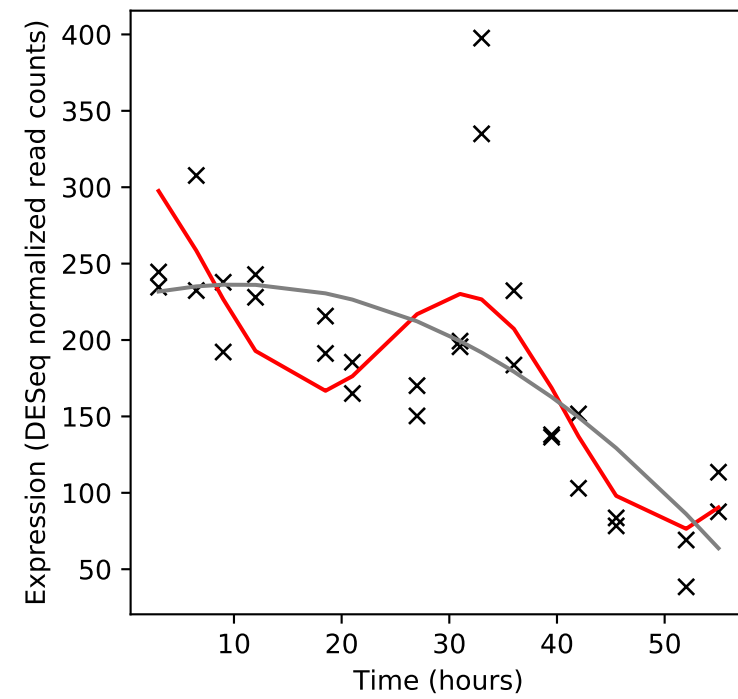
Rv2381c/mbtD



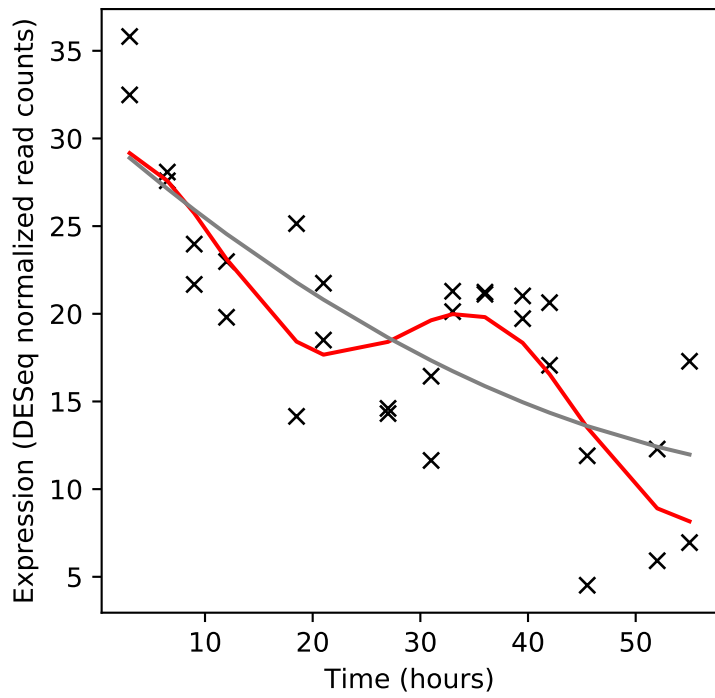
Rv2382c/mbtC



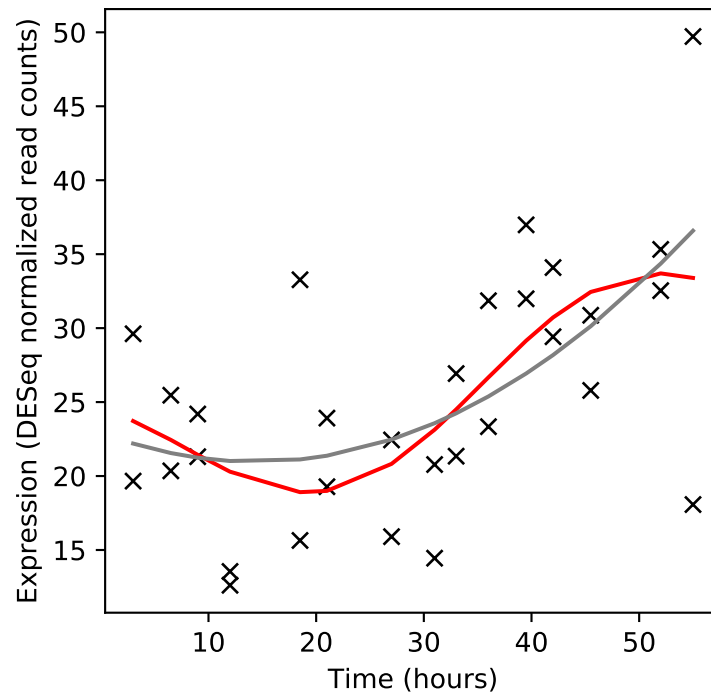
Rv2383c/mbtB



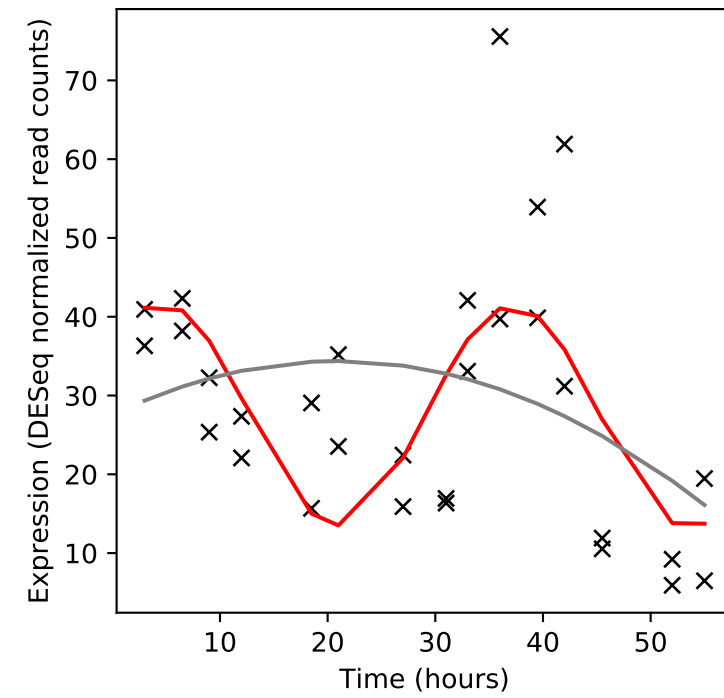
Rv2384/mbtA



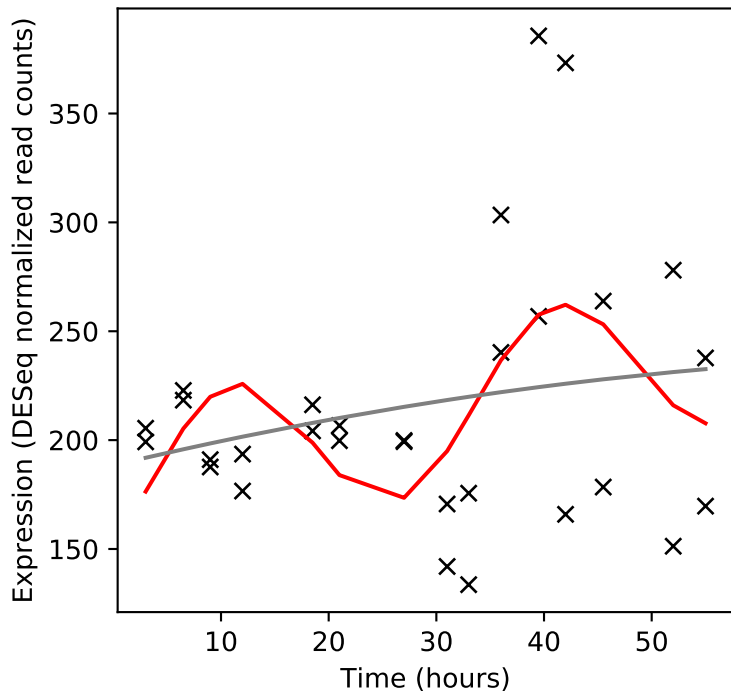
Rv2385/mbtJ



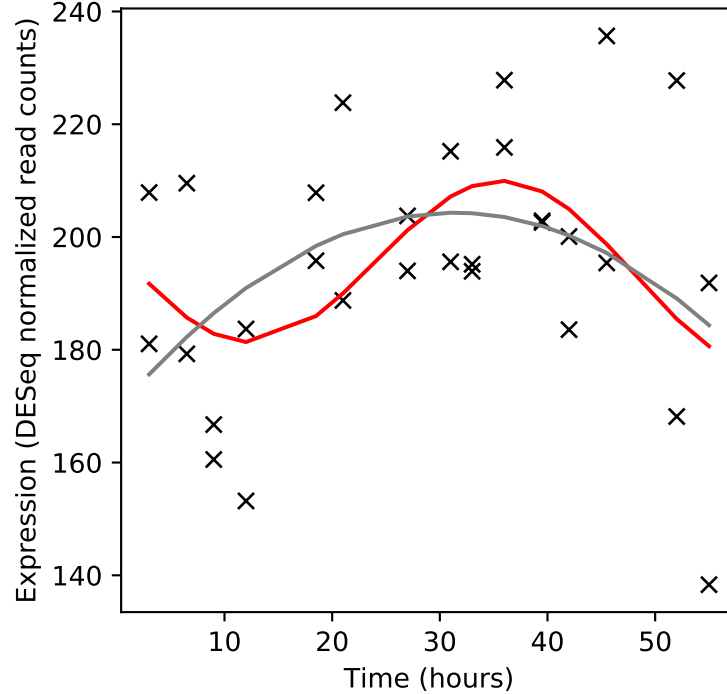
Rv2386c/mbtI



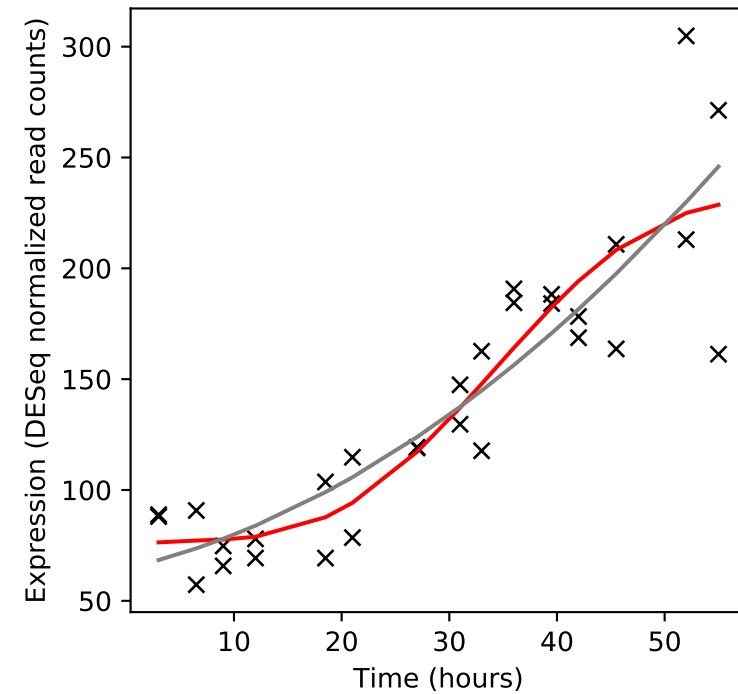
Rv2387/-



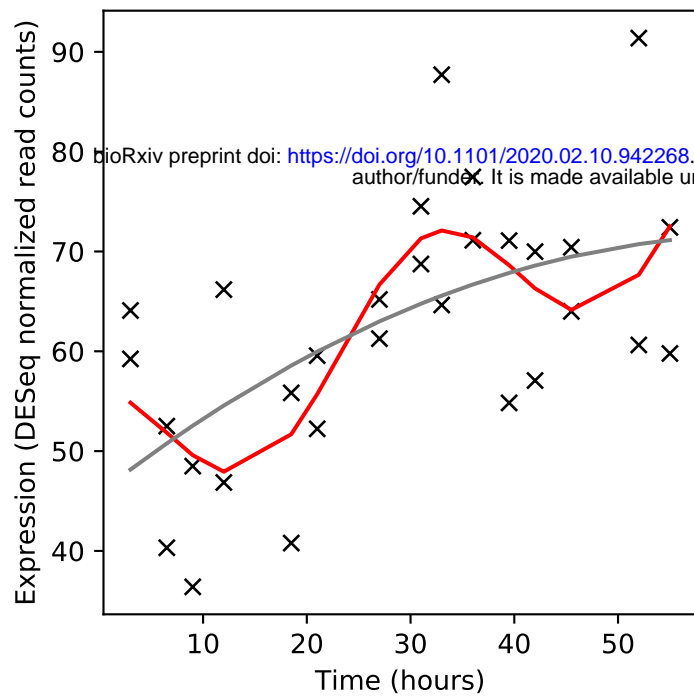
Rv2388c/hemN



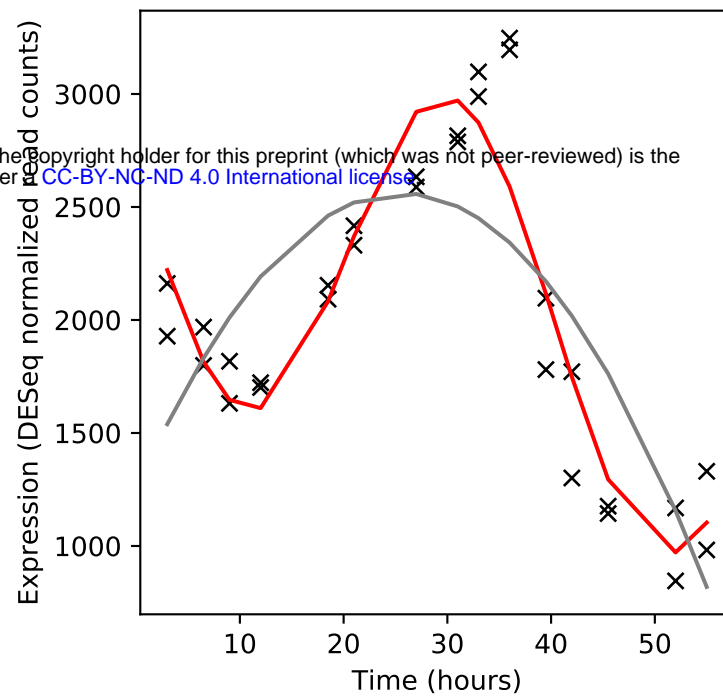
Rv2389c/rpfD



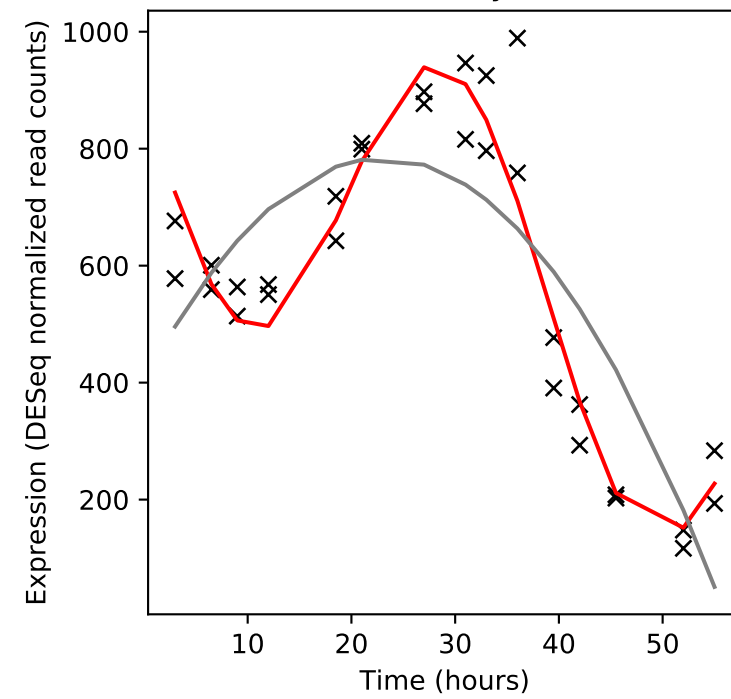
Rv2390c/-



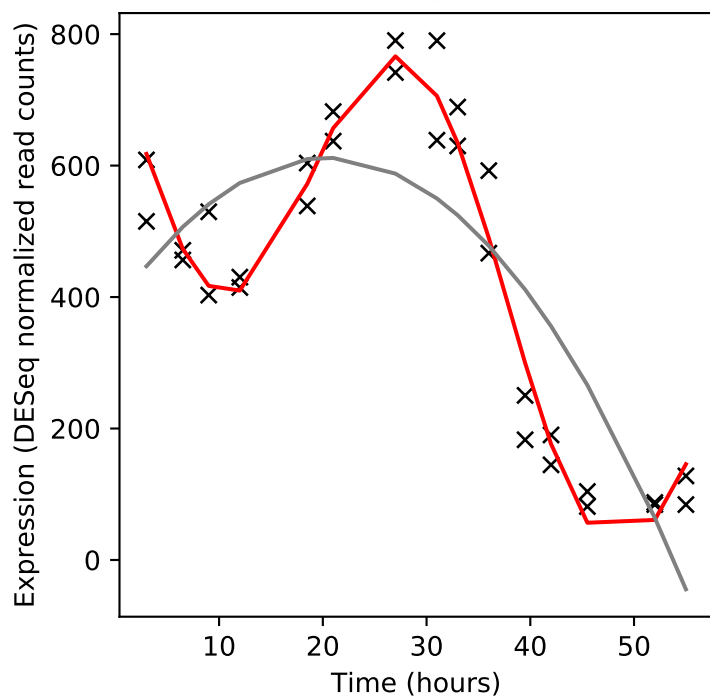
Rv2391/sirA



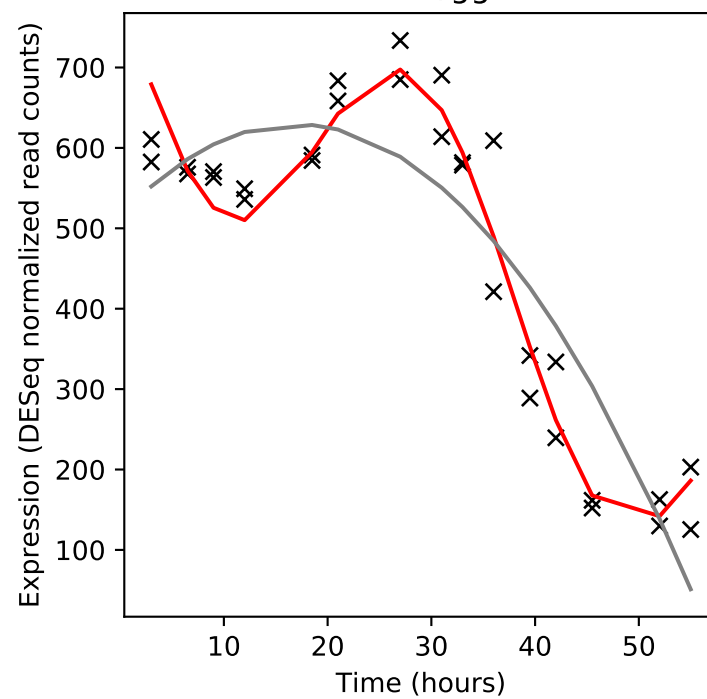
Rv2392/cysH



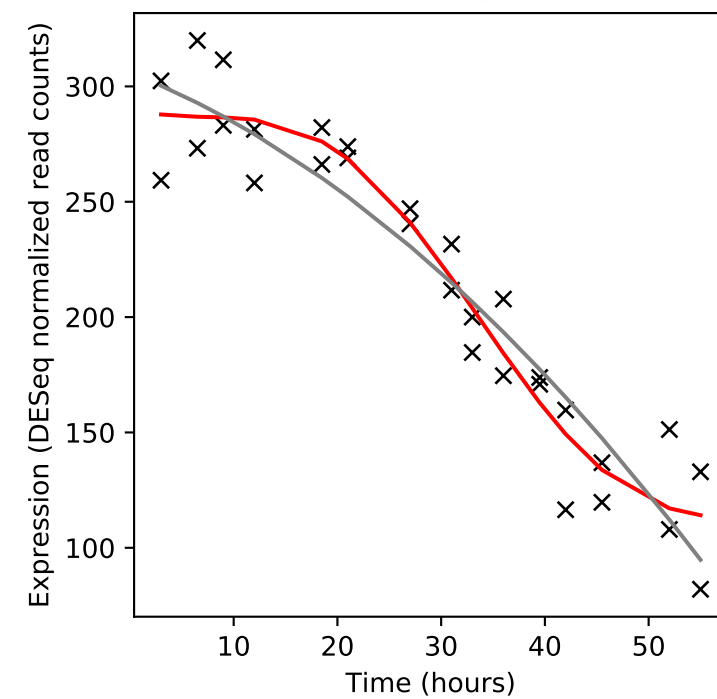
Rv2393/che1



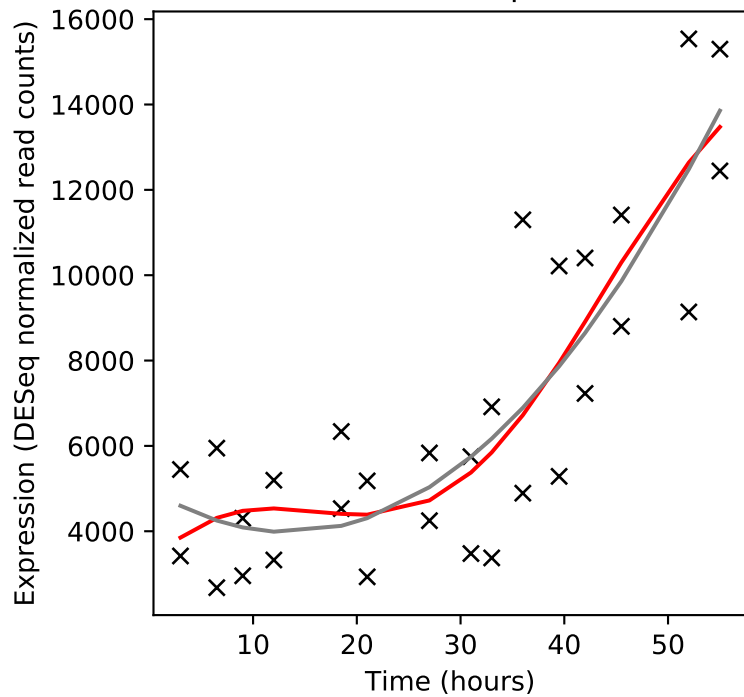
Rv2394/ggtB



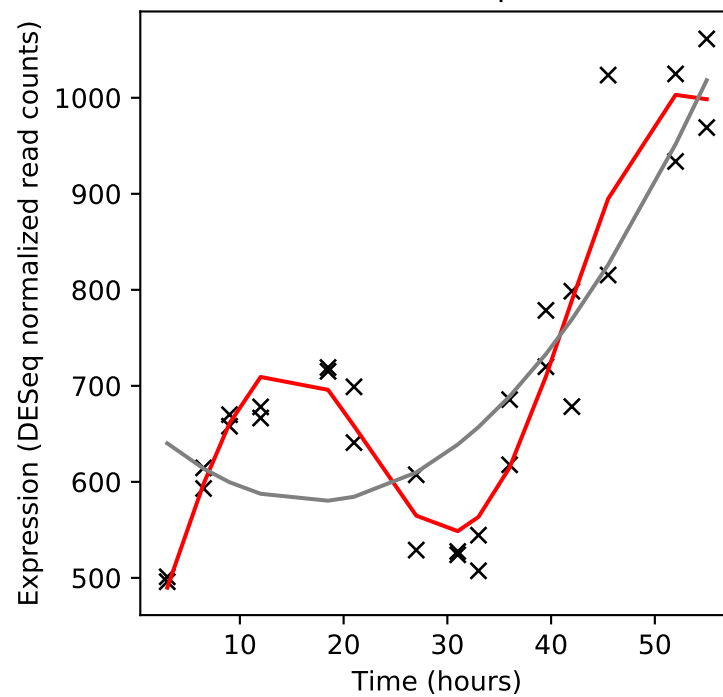
Rv2395/-



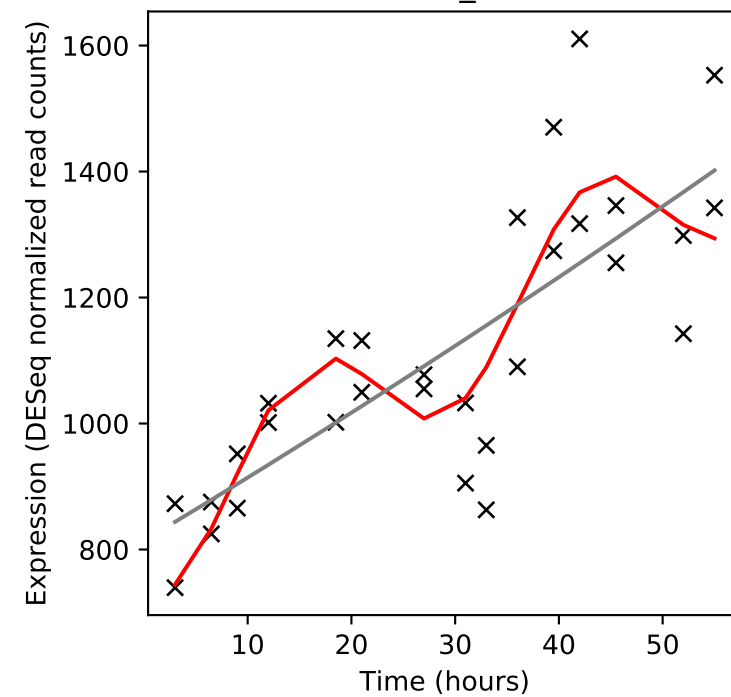
Rv2395A/aprA



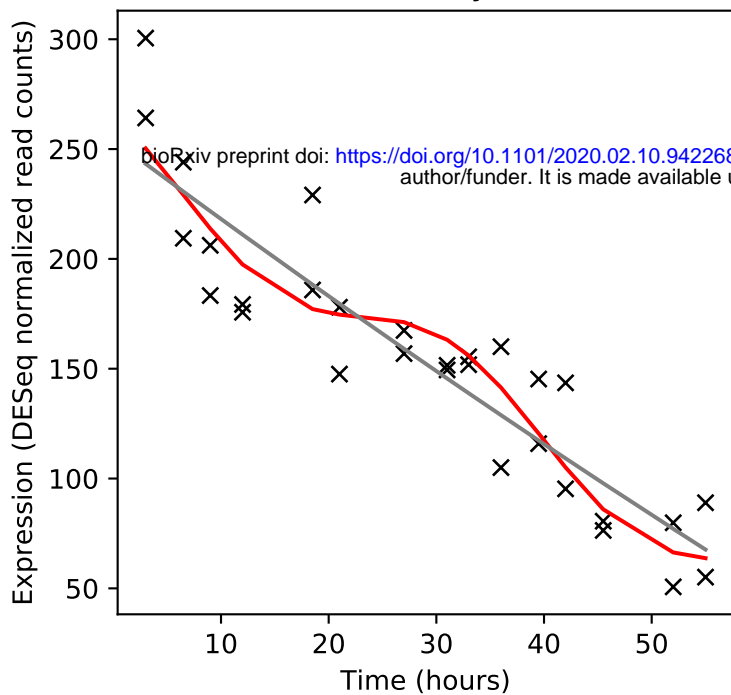
Rv2395B/aprB



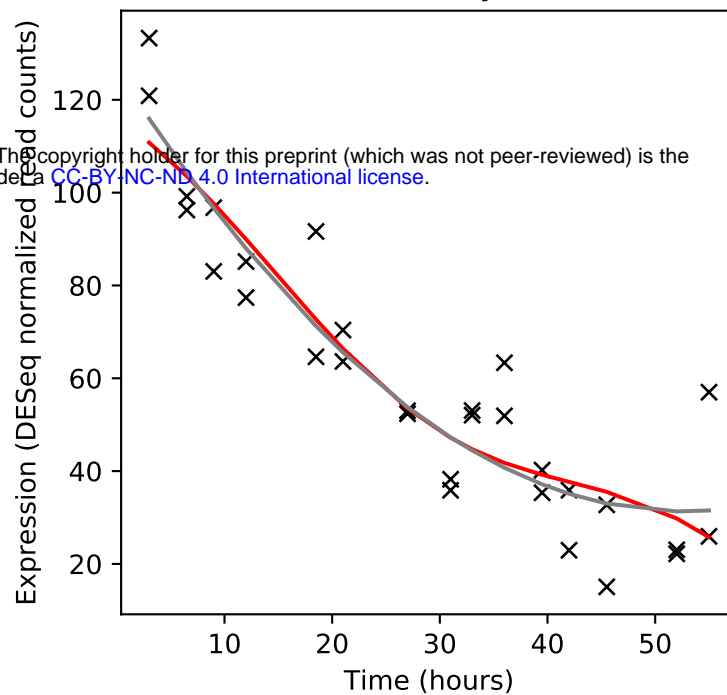
Rv2396/PE_PGRS41



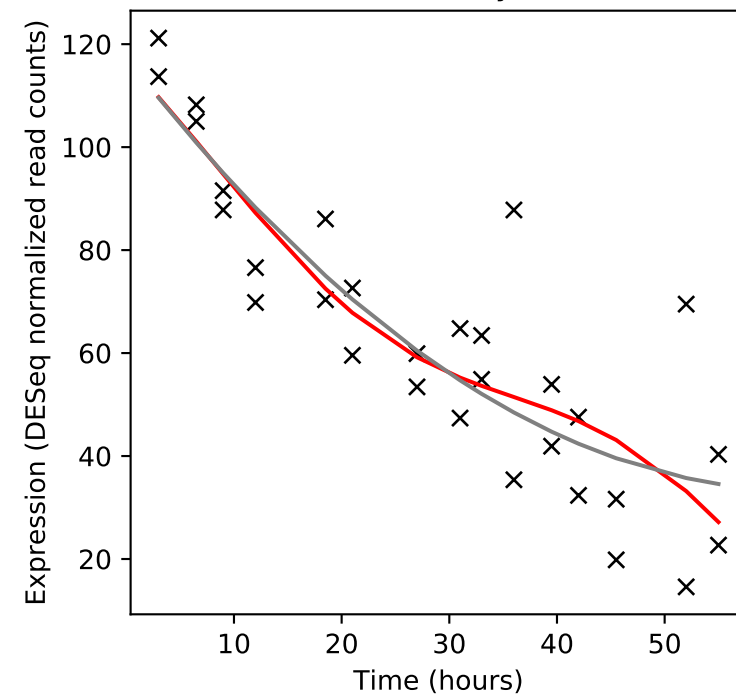
Rv2397c/cysA1



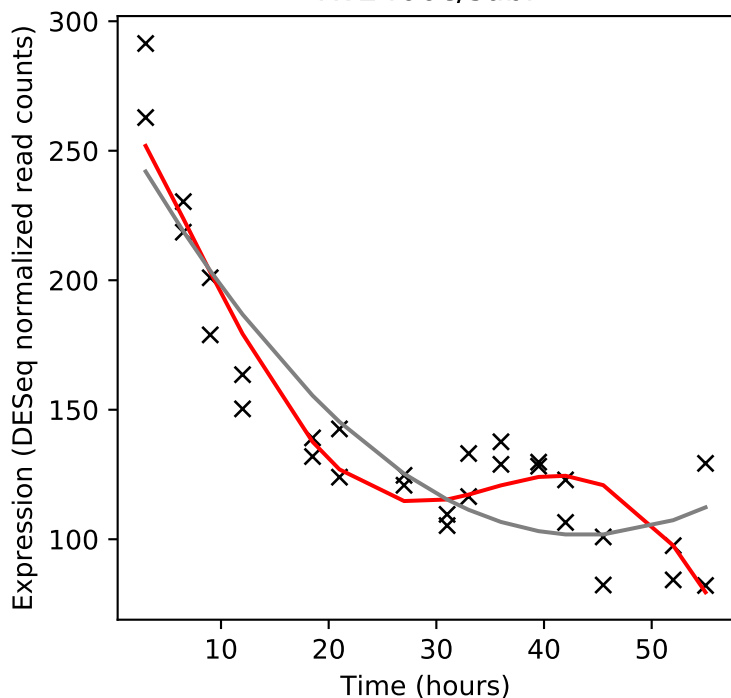
Rv2398c/cysW



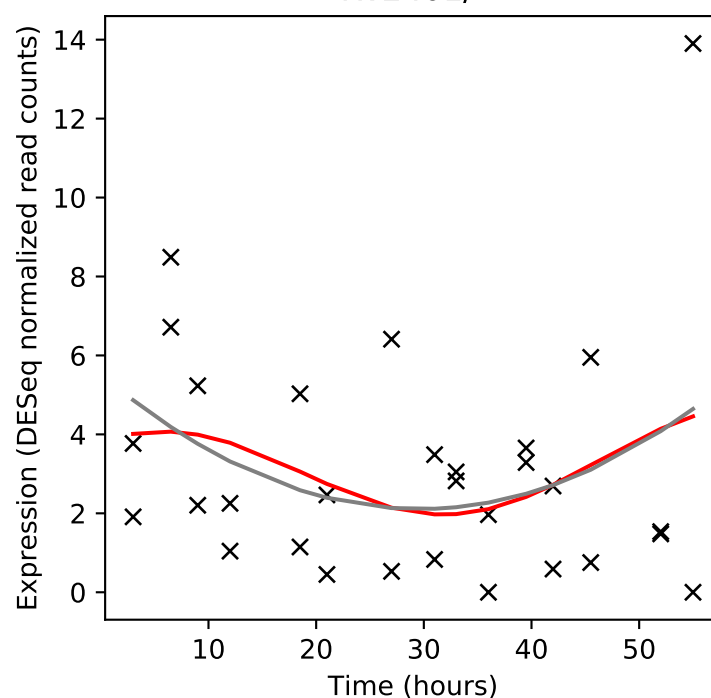
Rv2399c/cysT



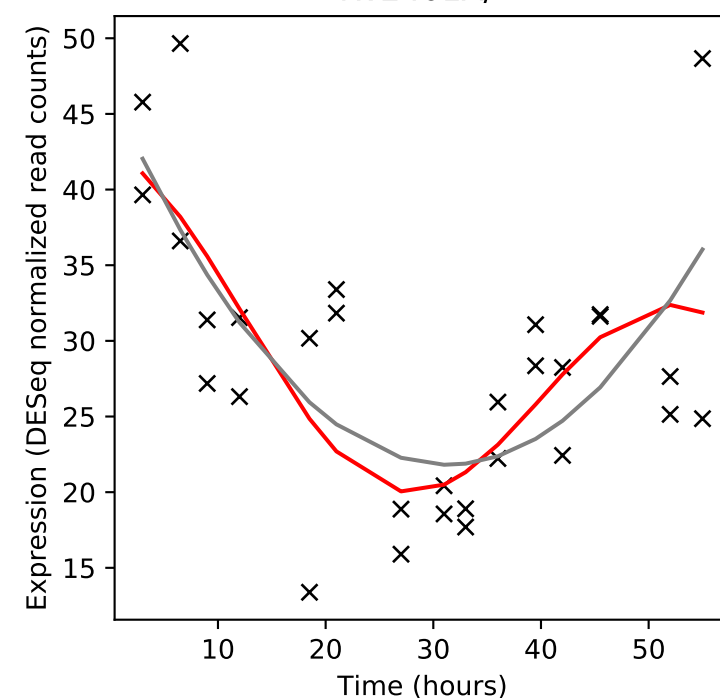
Rv2400c/subI



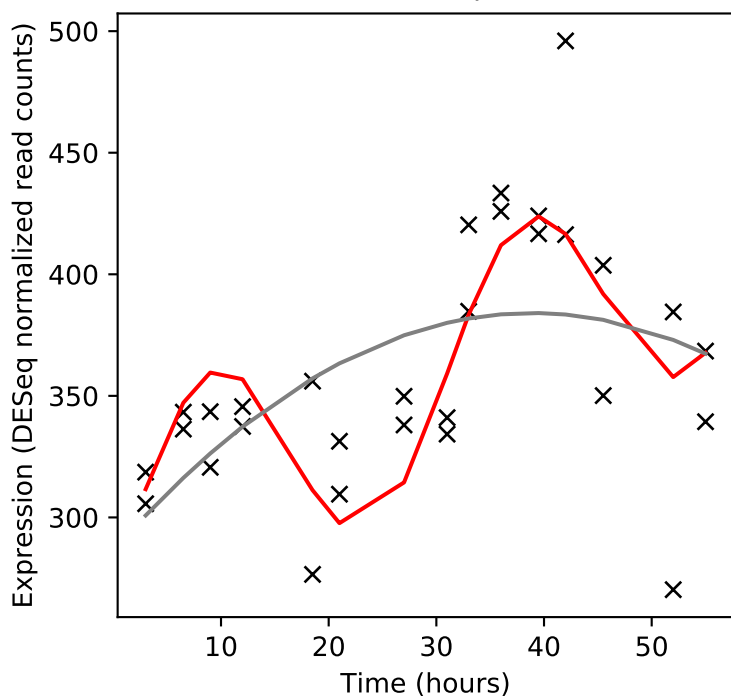
Rv2401/-



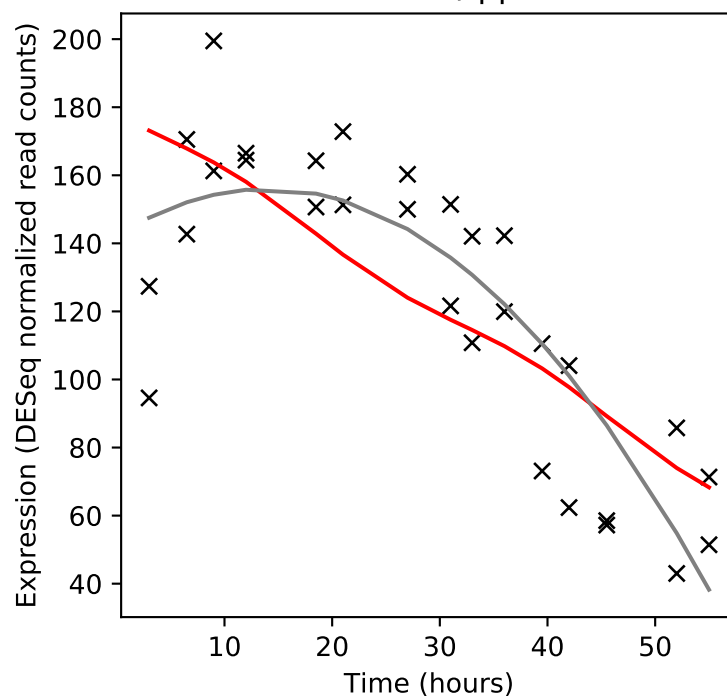
Rv2401A/-



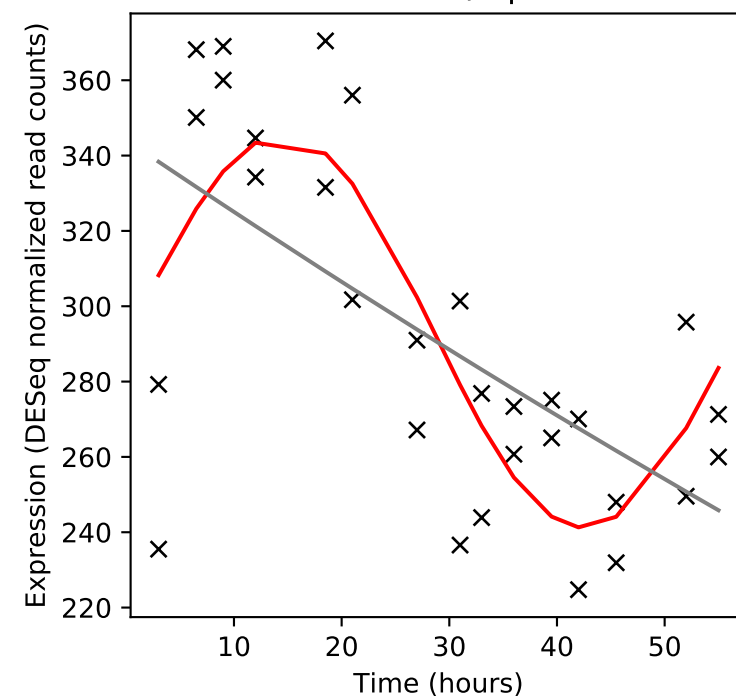
Rv2402/-



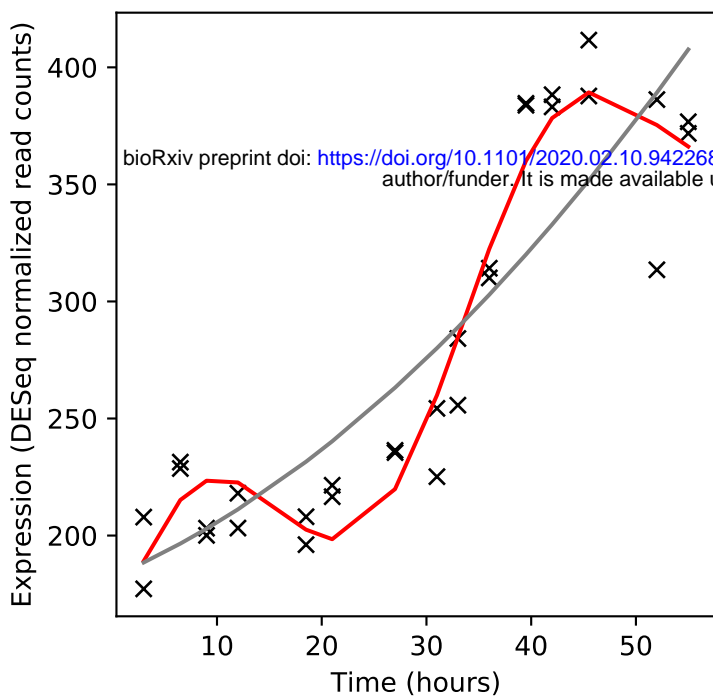
Rv2403c/lppR



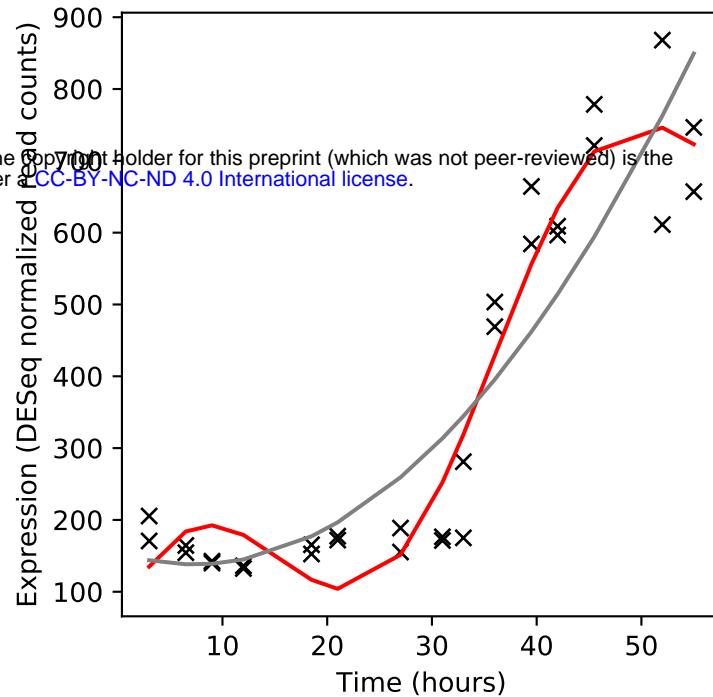
Rv2404c/lepA



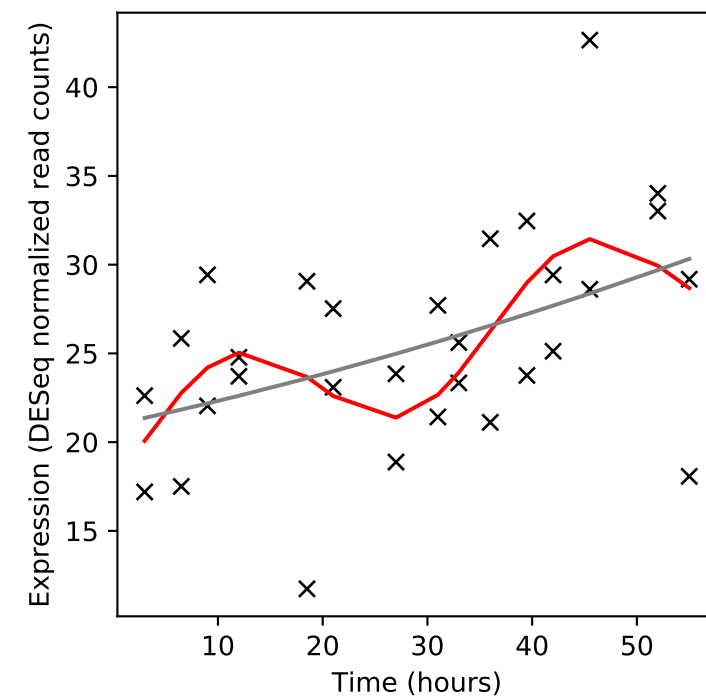
Rv2405/-



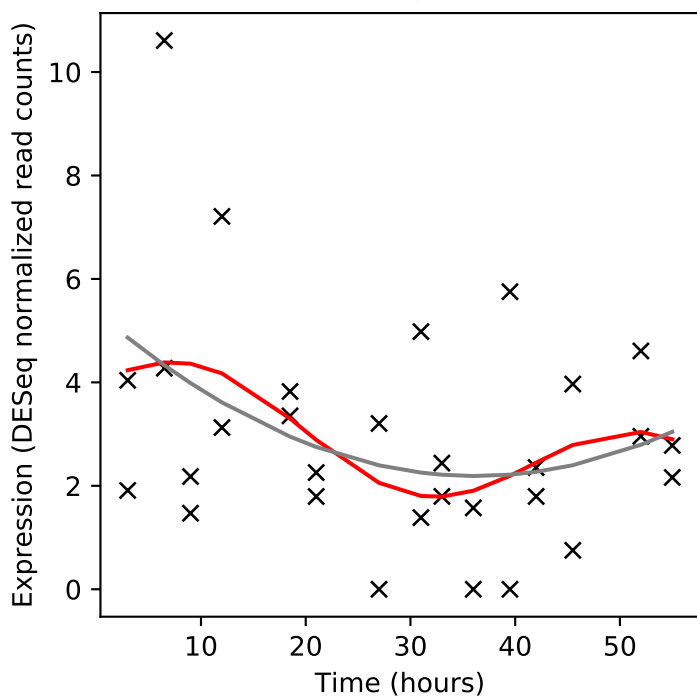
Rv2406c/-



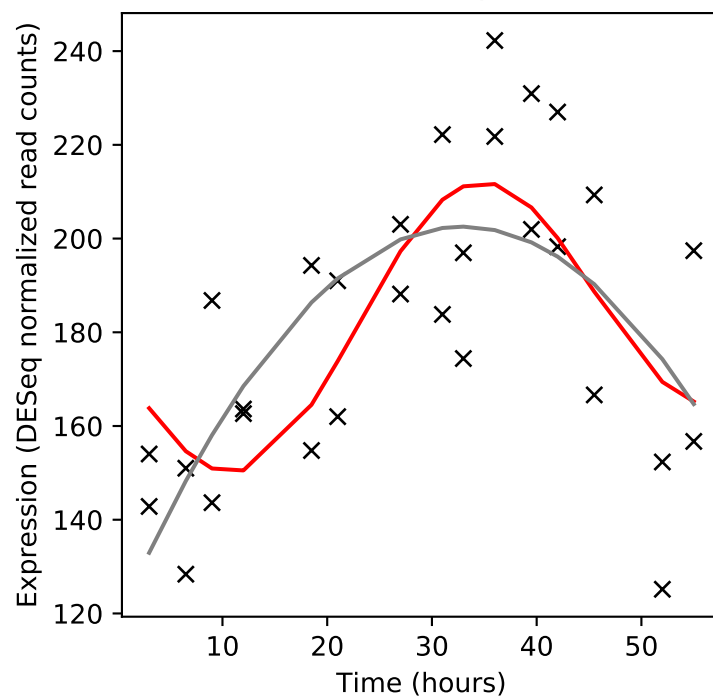
Rv2407/-



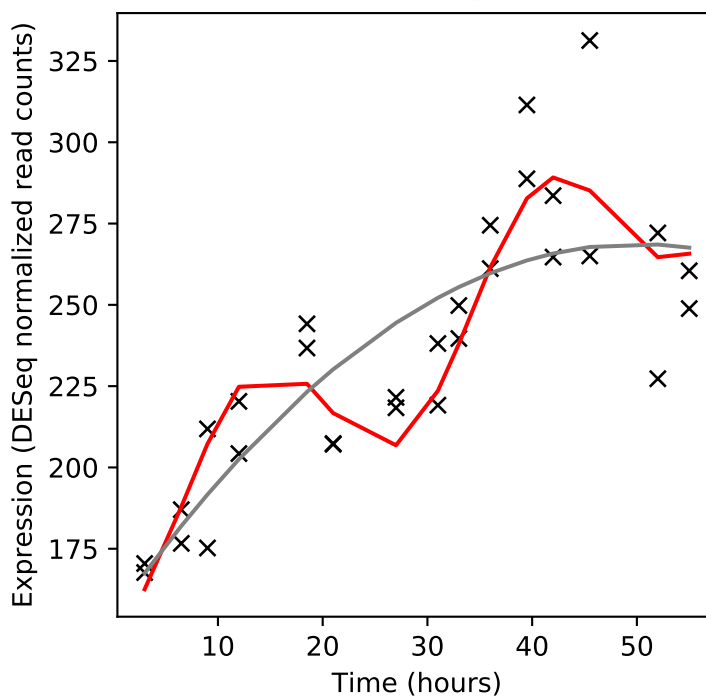
Rv2408/PE24



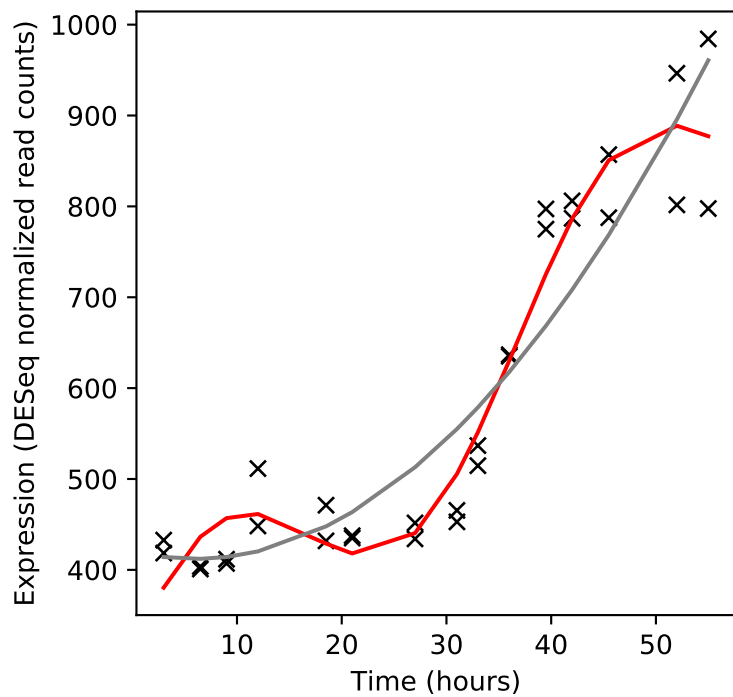
Rv2409c/-



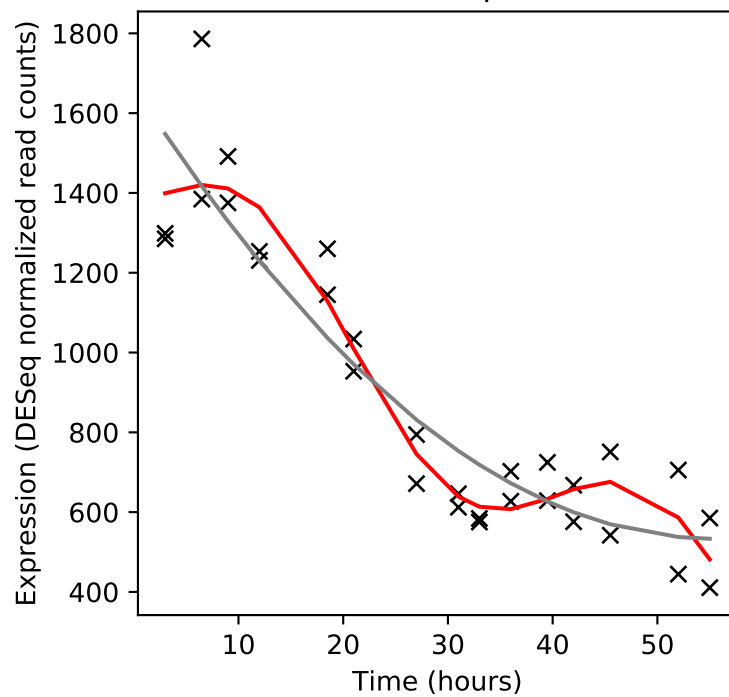
Rv2410c/-



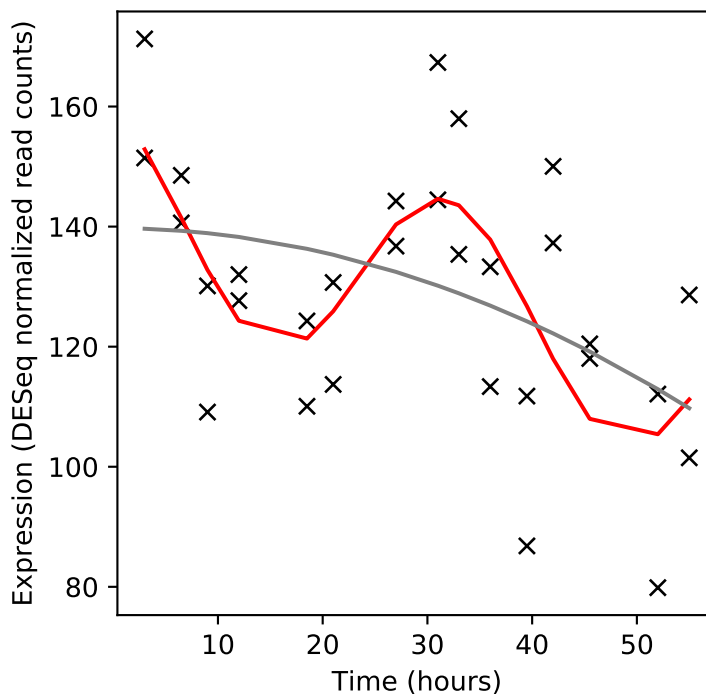
Rv2411c/-



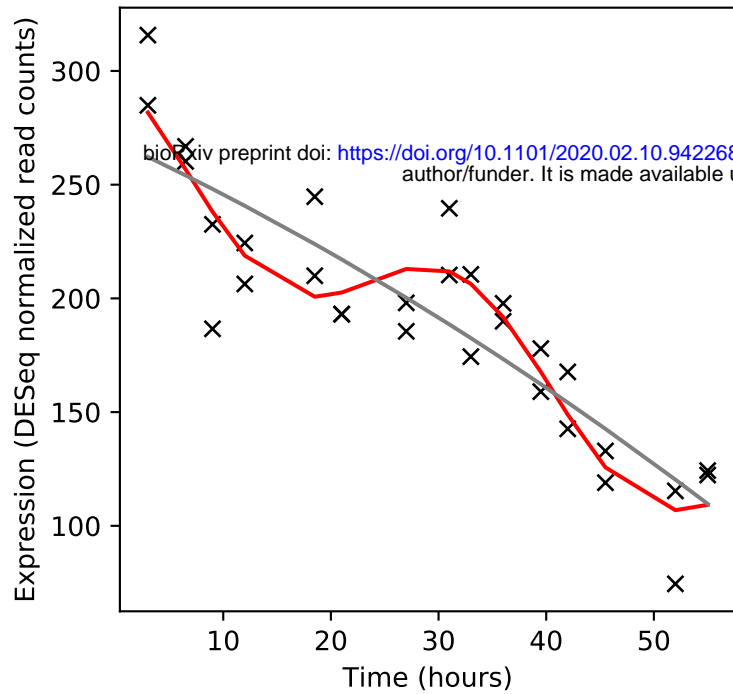
Rv2412/rpsT



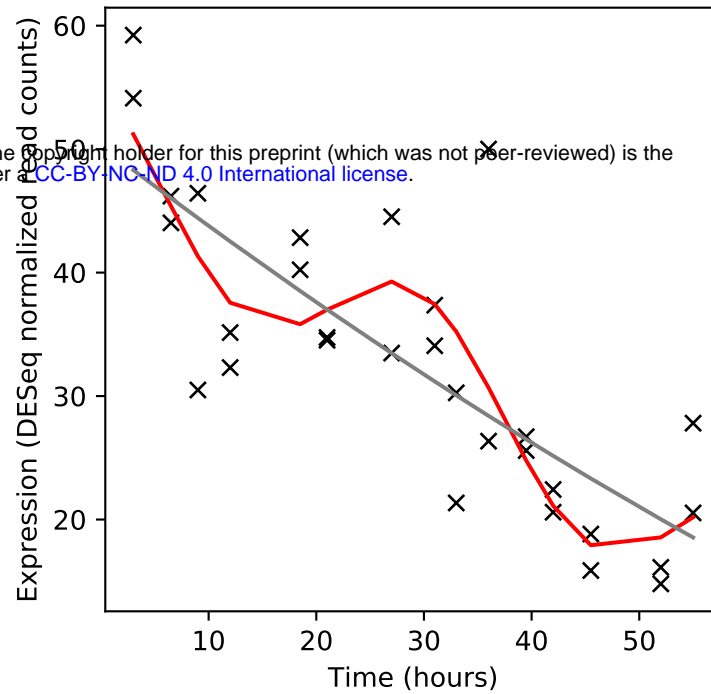
Rv2413c/-



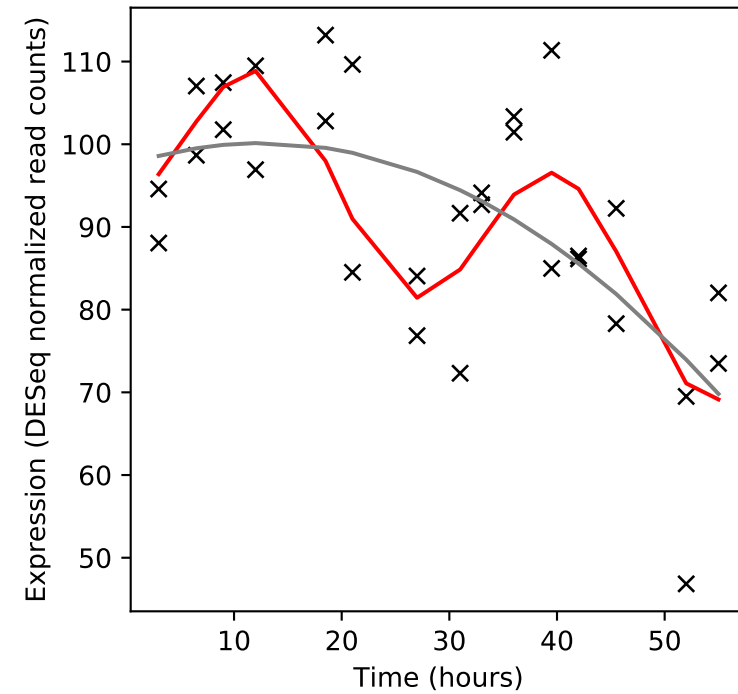
Rv2414c/-



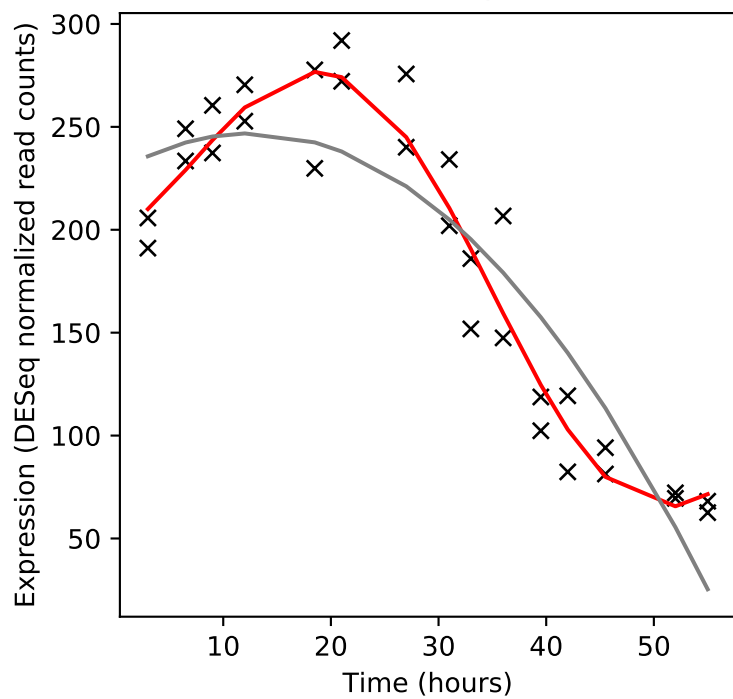
Rv2415c/-



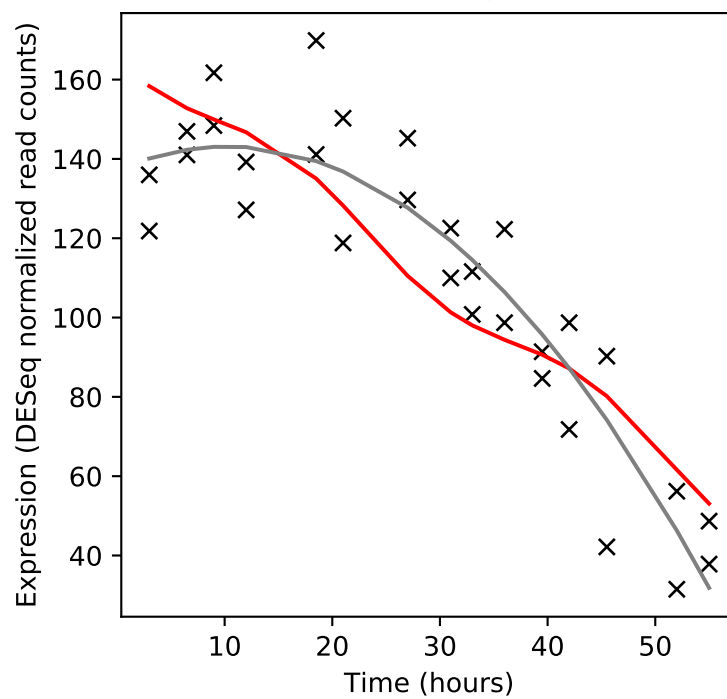
Rv2416c/eis



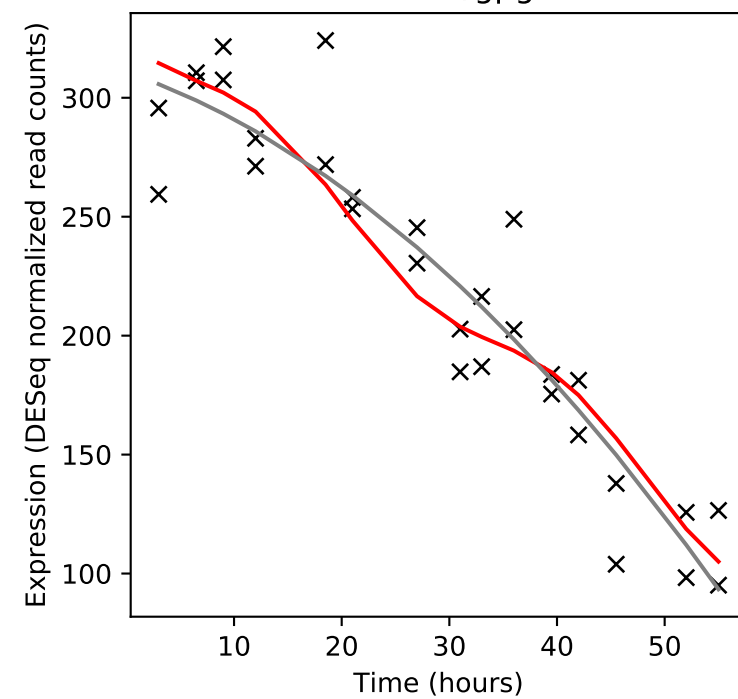
Rv2417c/-



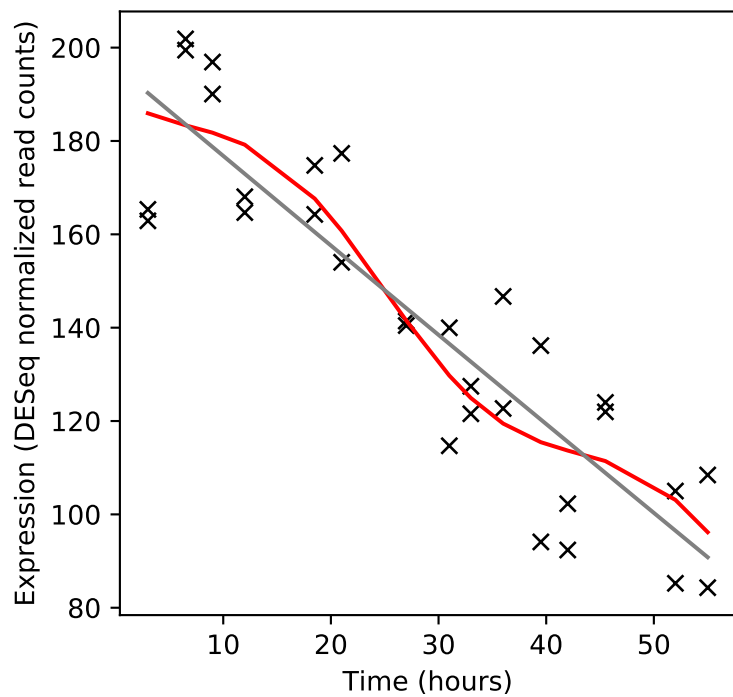
Rv2418c/-



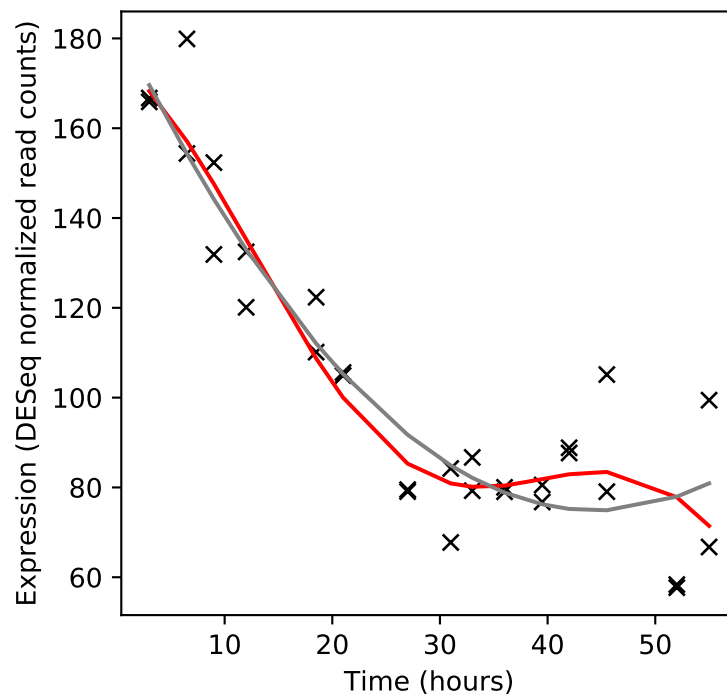
Rv2419c/gpgP



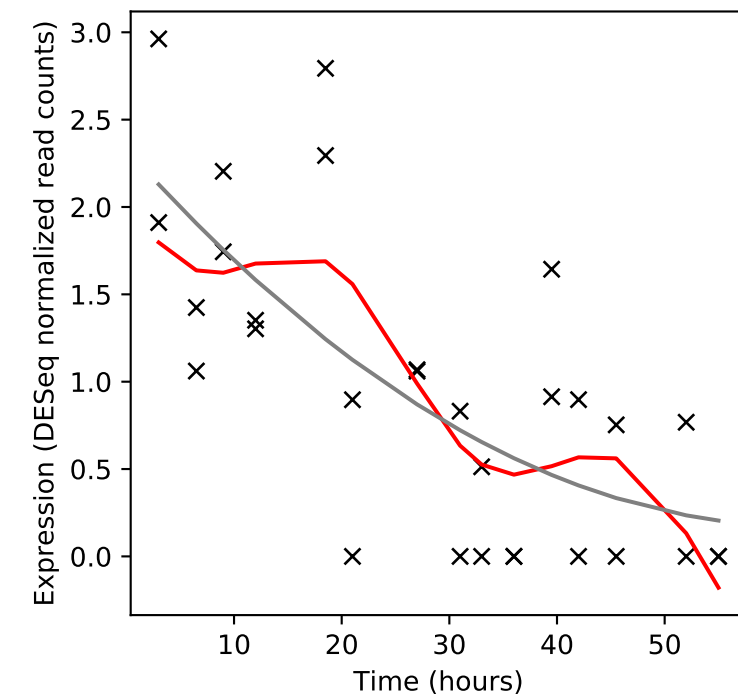
Rv2420c/-

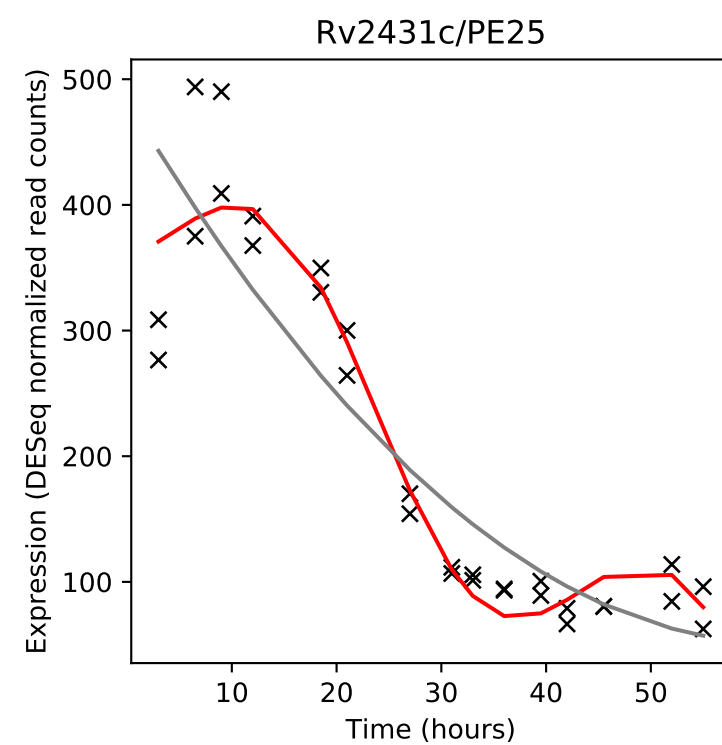
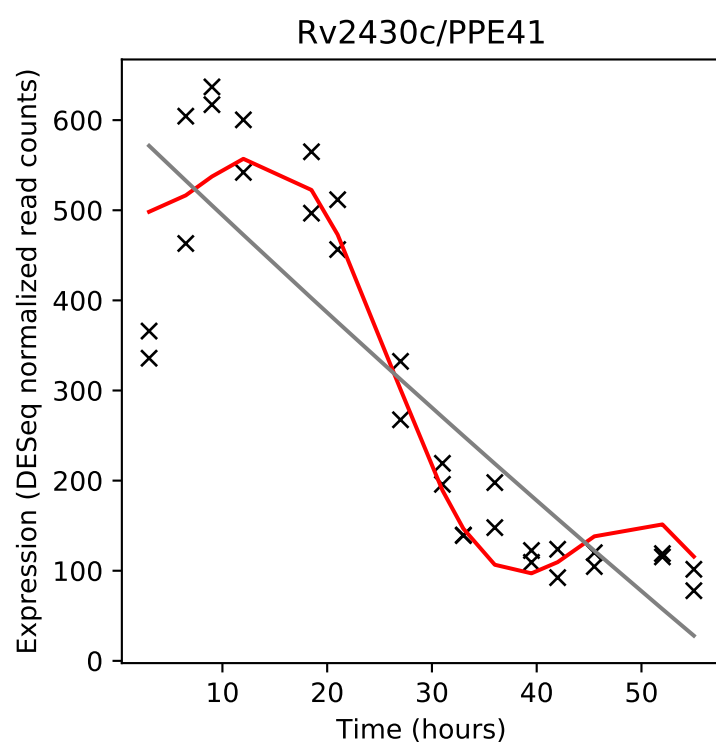
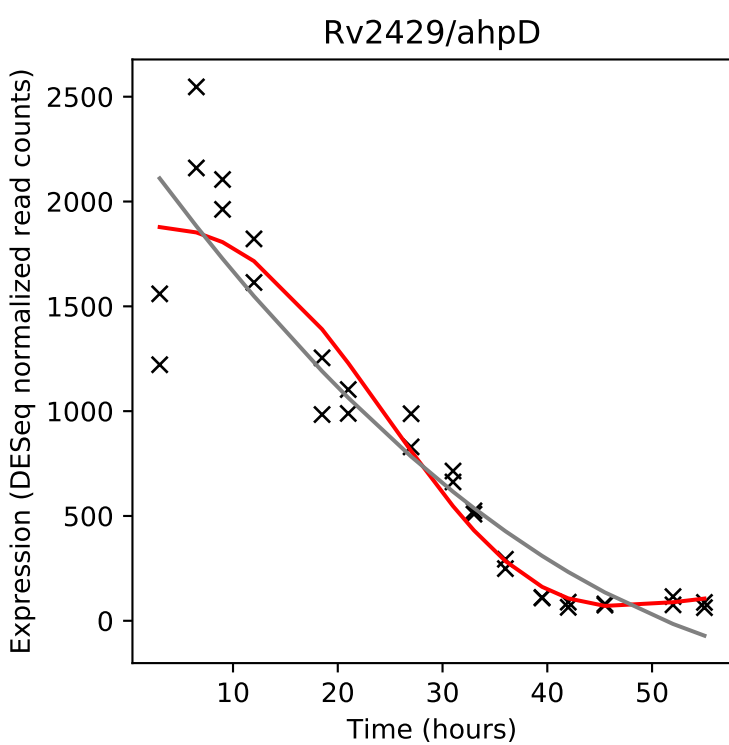
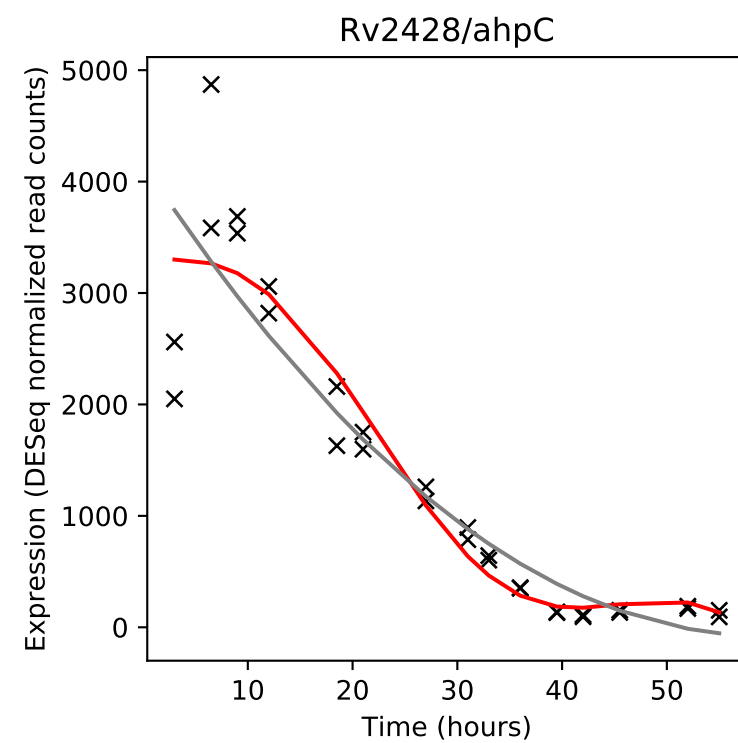
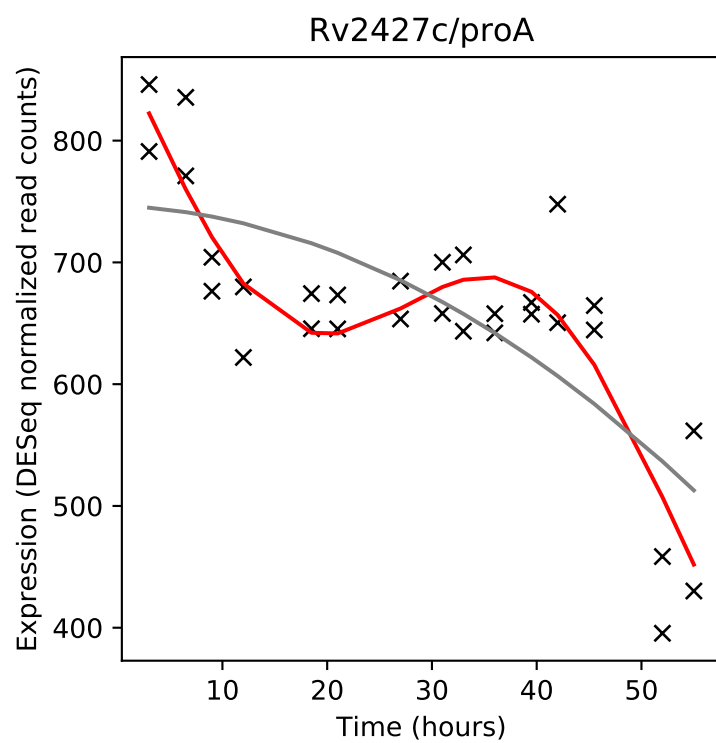
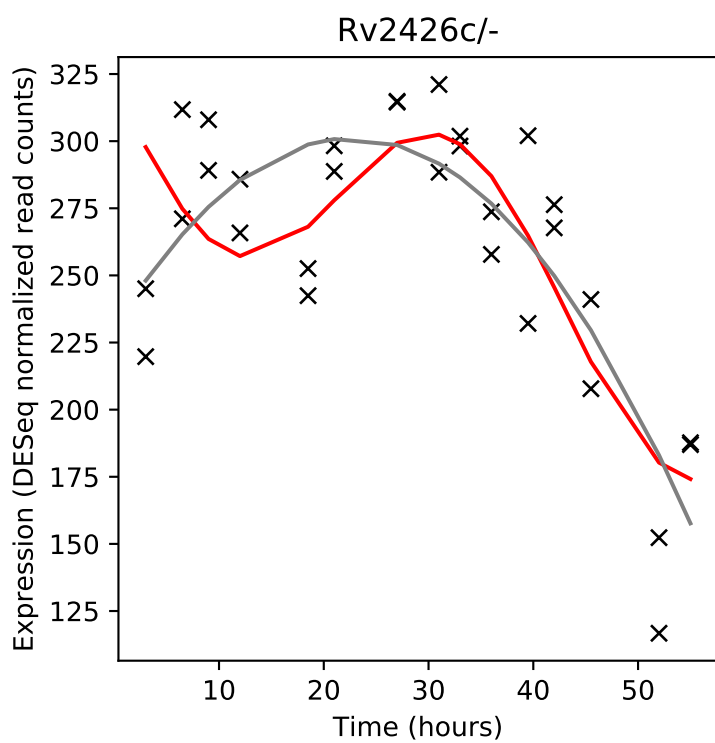
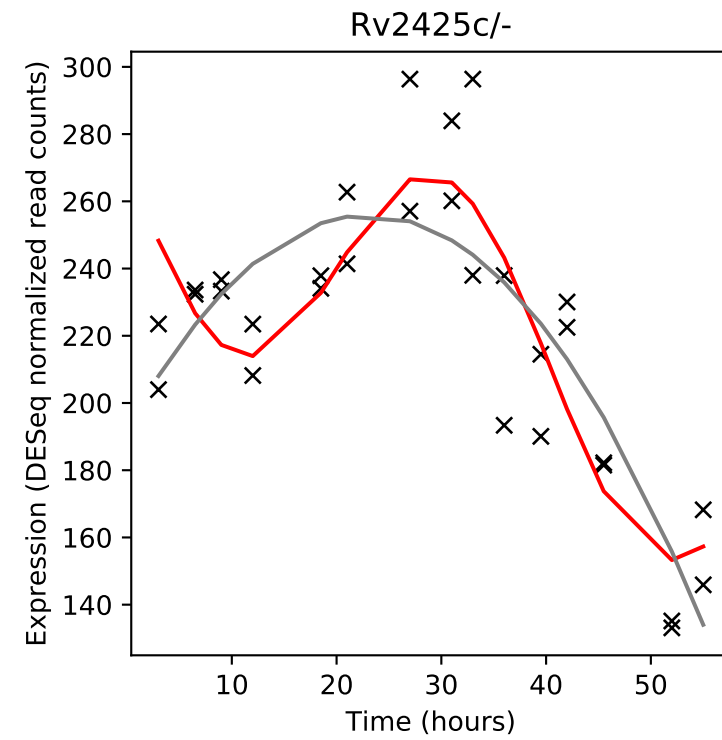
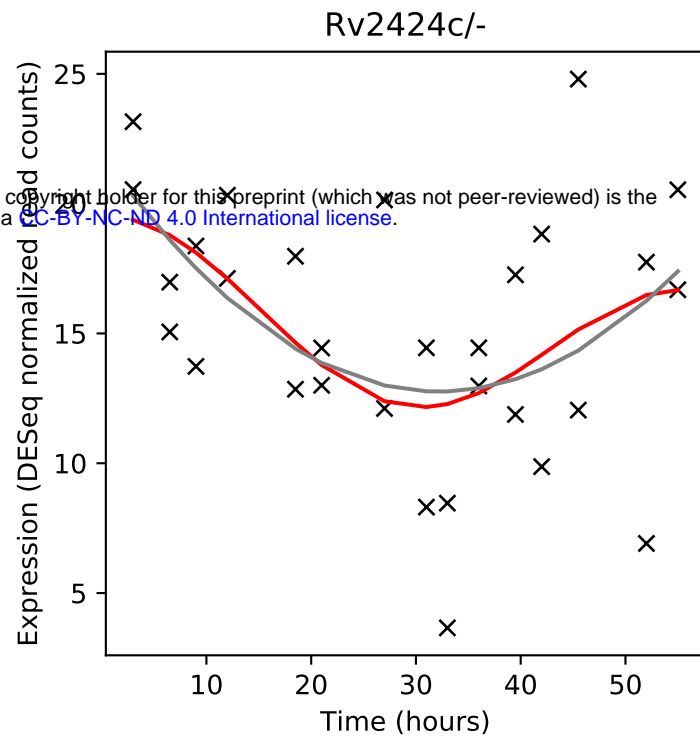
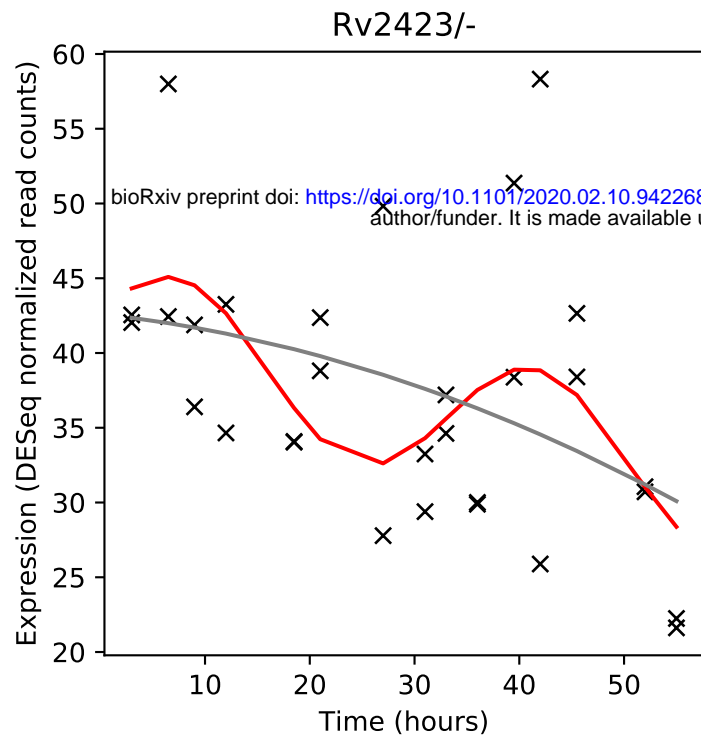


Rv2421c/nadD

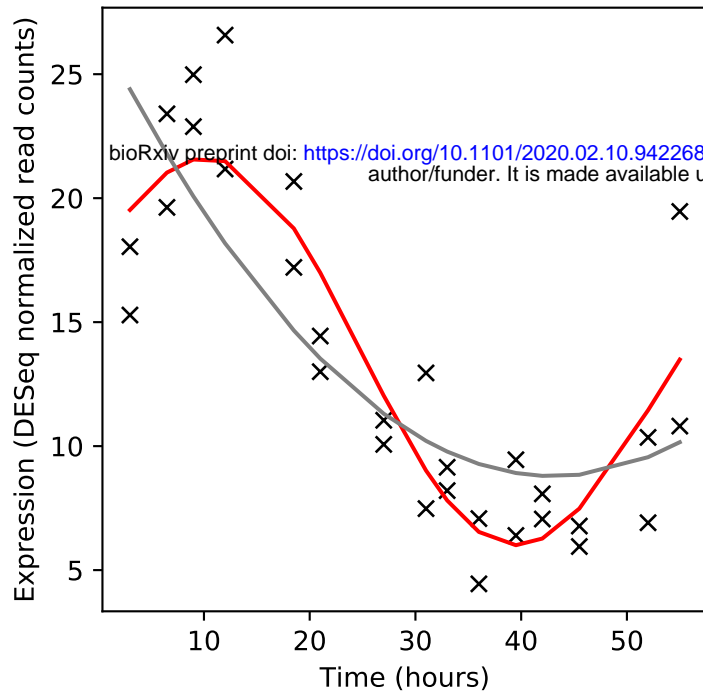


Rv2422c/-

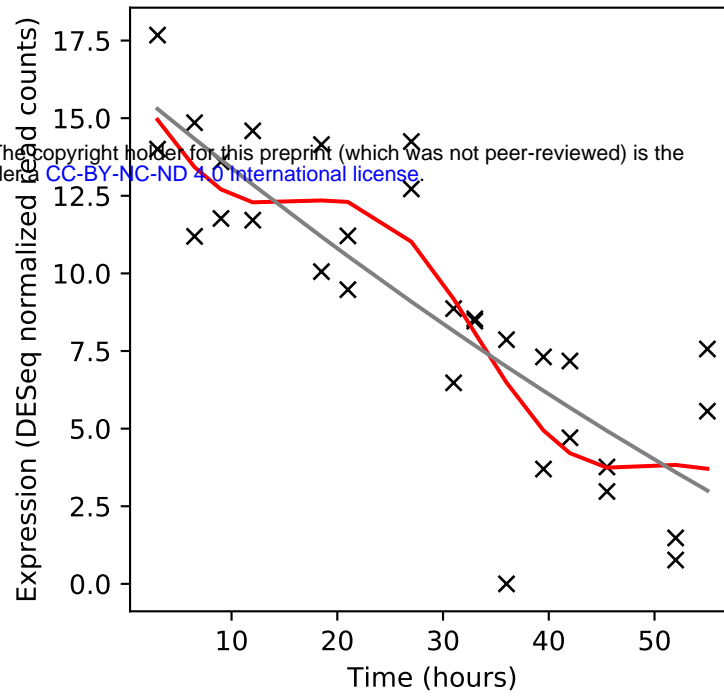




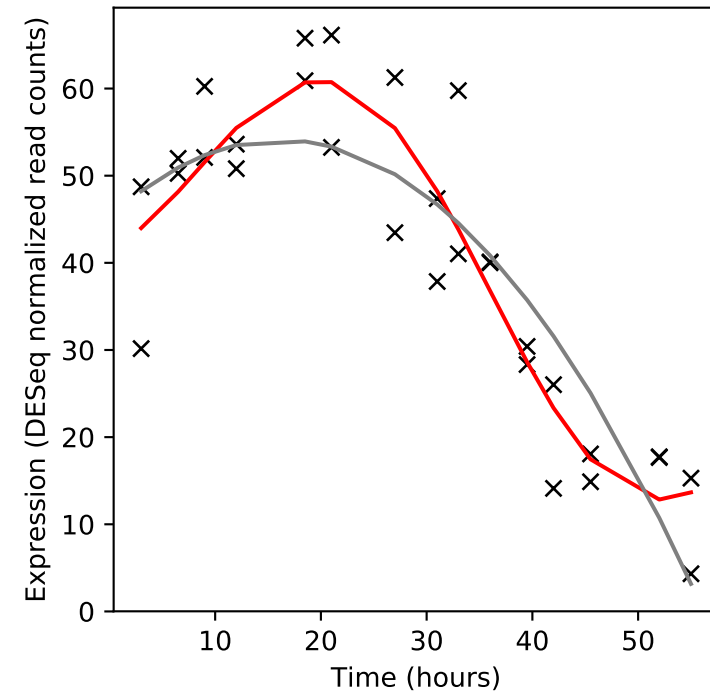
Rv2432c/-



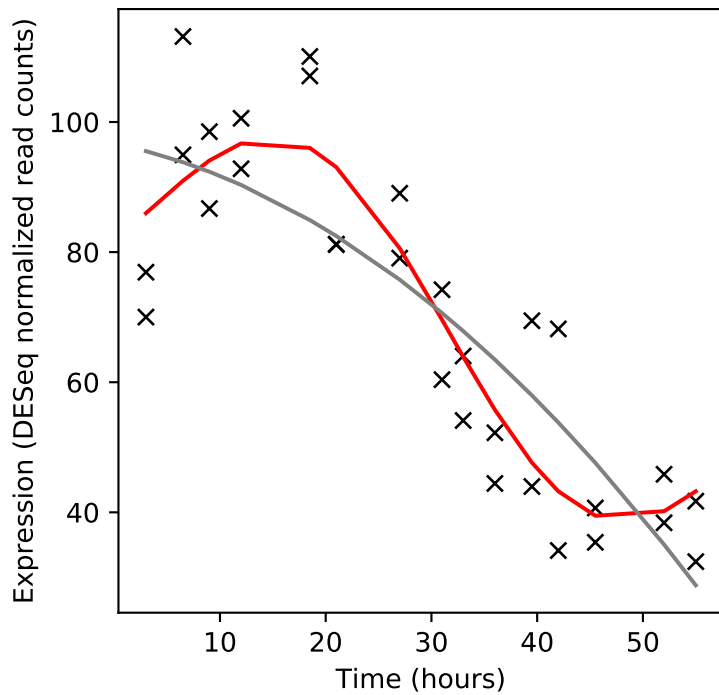
Rv2433c/-



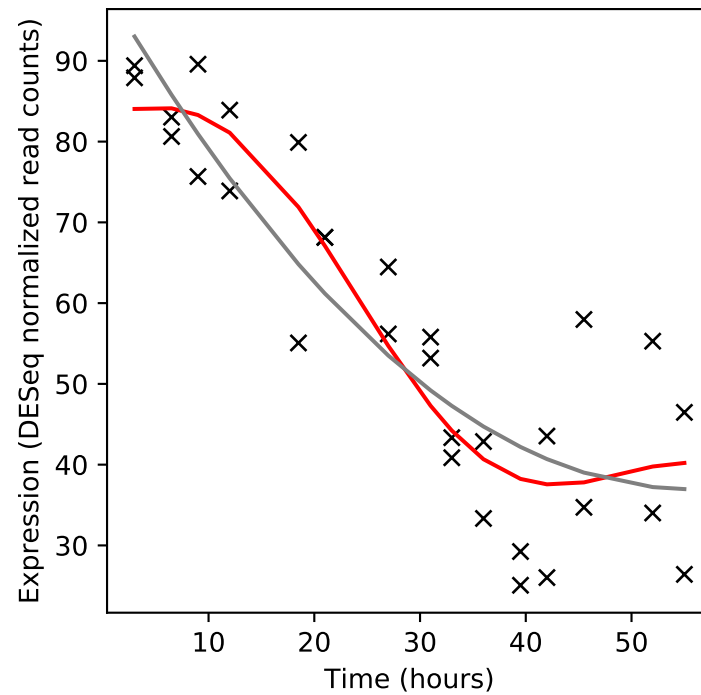
Rv2434c/-



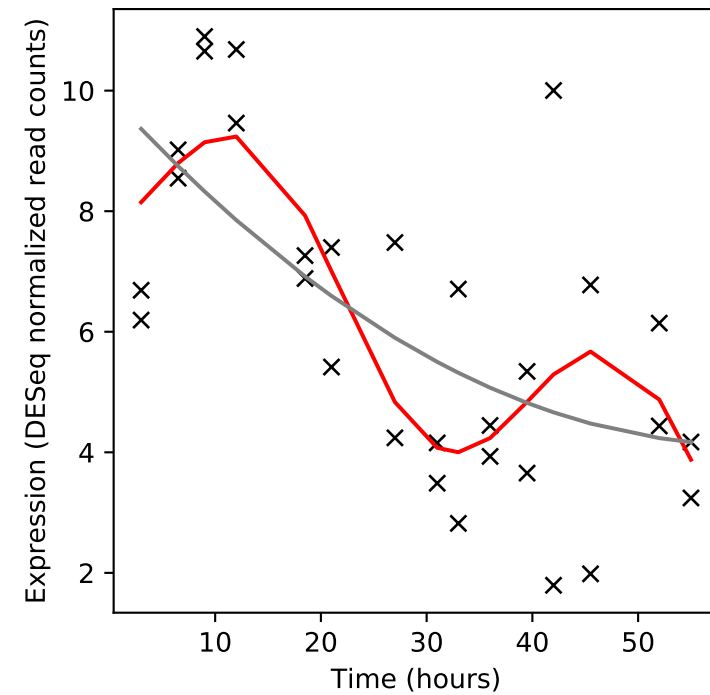
Rv2435c/-



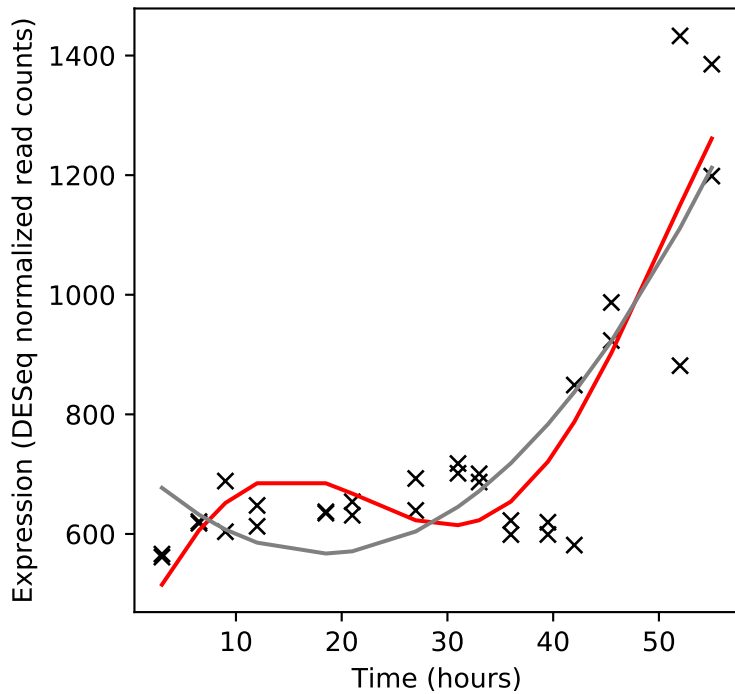
Rv2436/rbsK



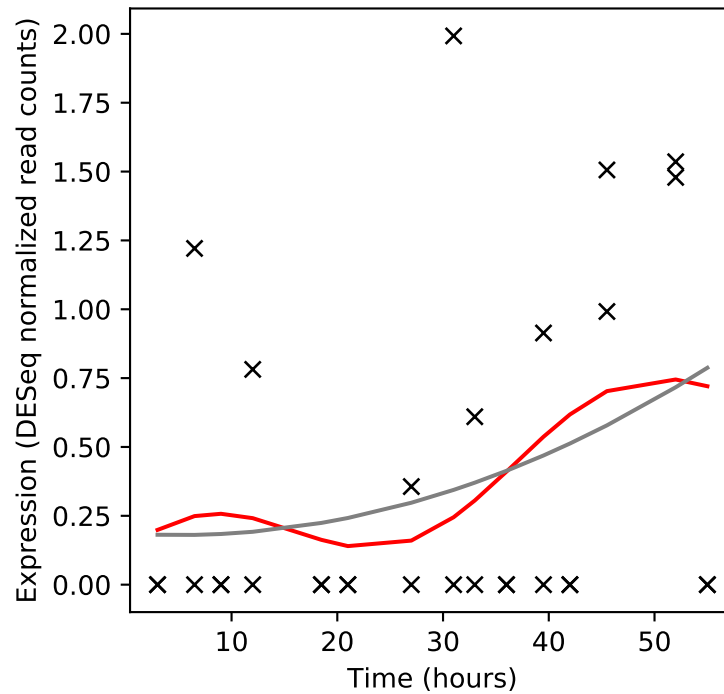
Rv2437/-



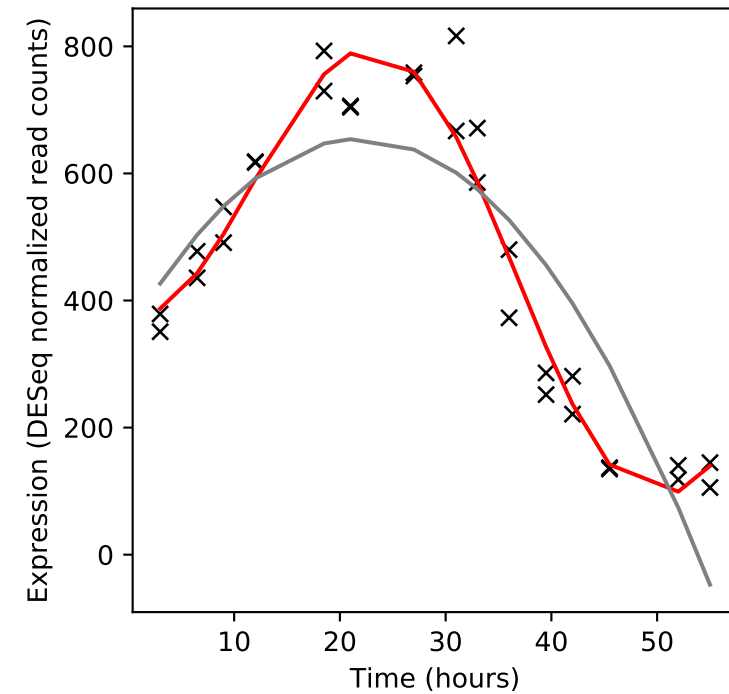
Rv2438c/nadE



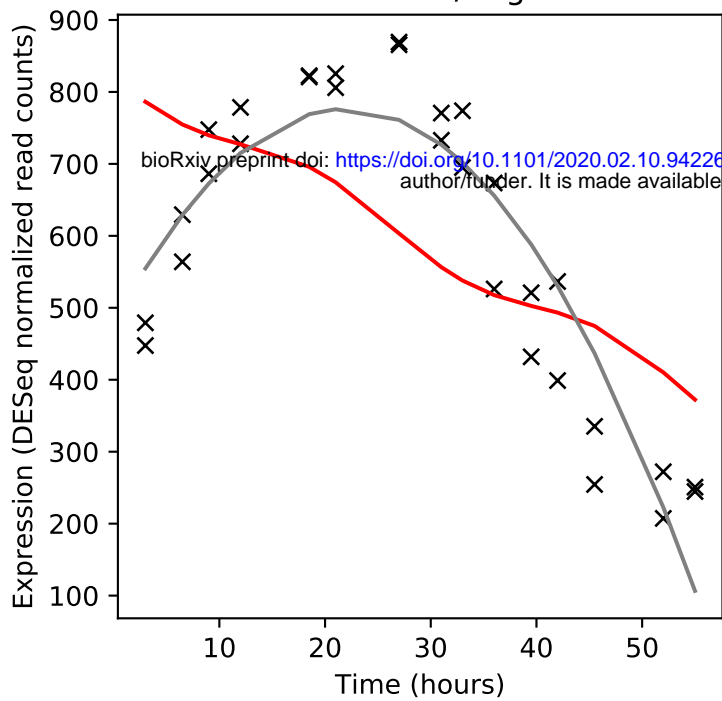
Rv2438A/-



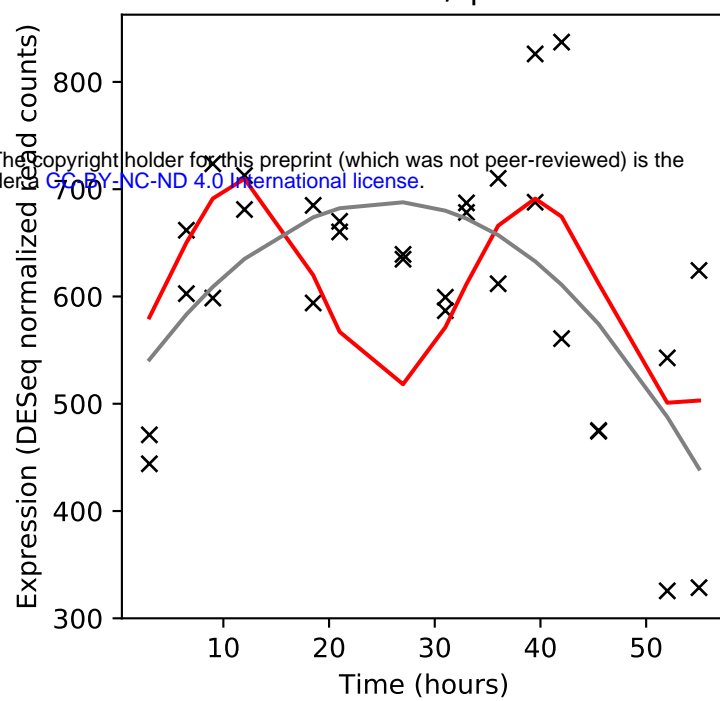
Rv2439c/proB



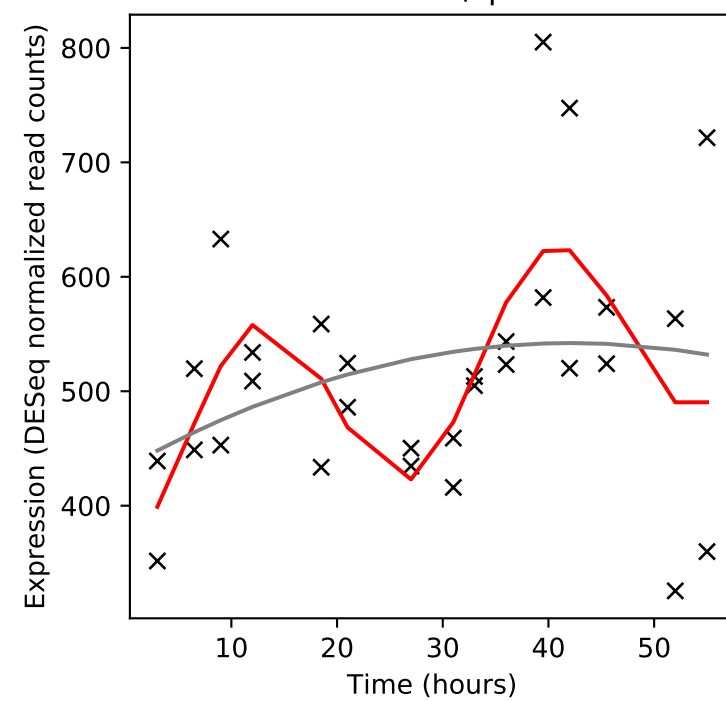
Rv2440c/obg



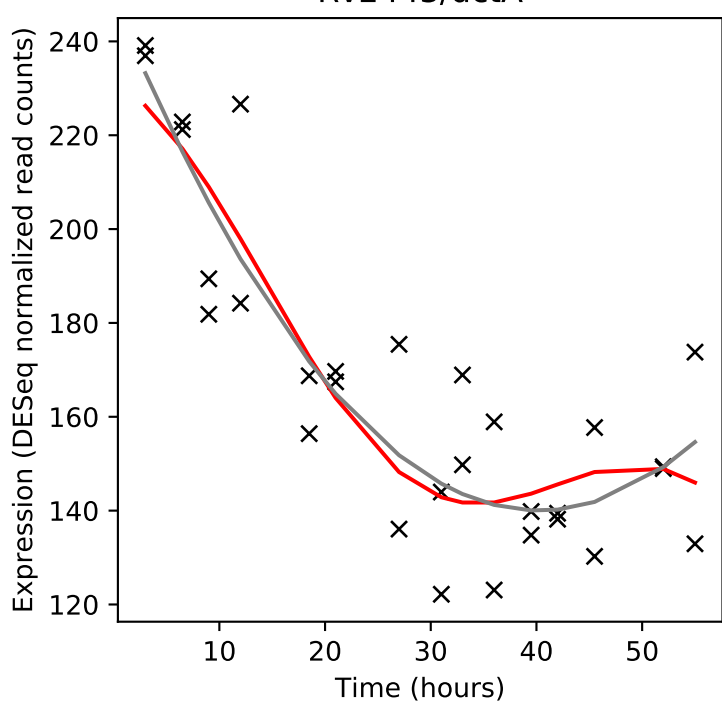
Rv2441c/rpmA



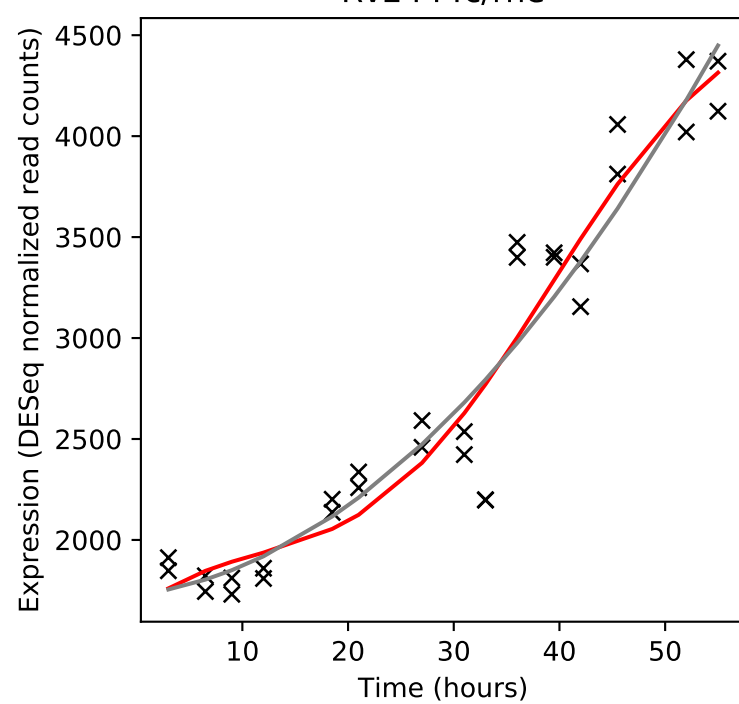
Rv2442c/rplU



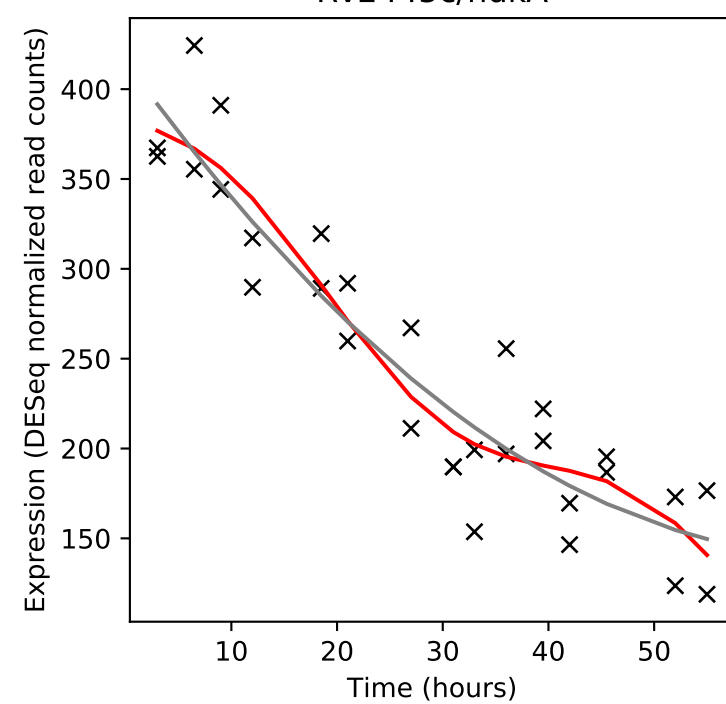
Rv2443/dctA



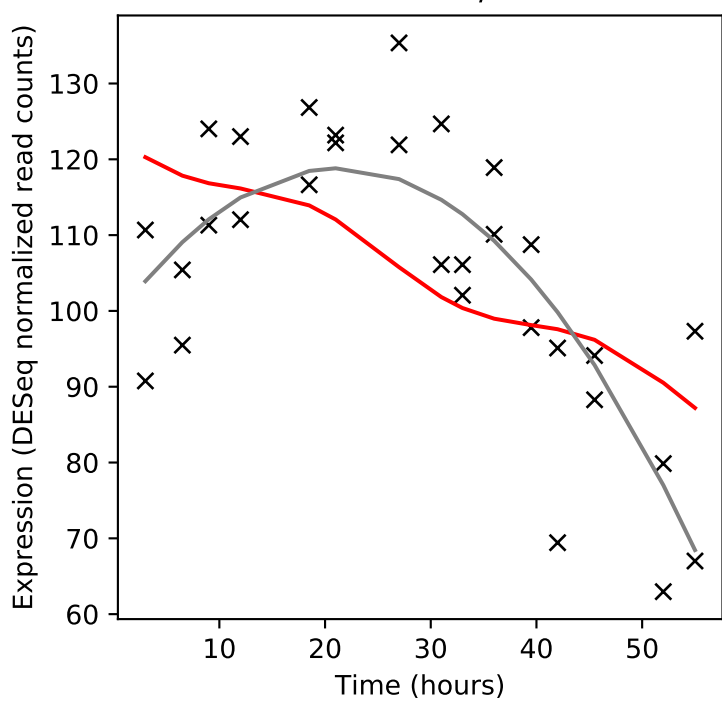
Rv2444c/rne



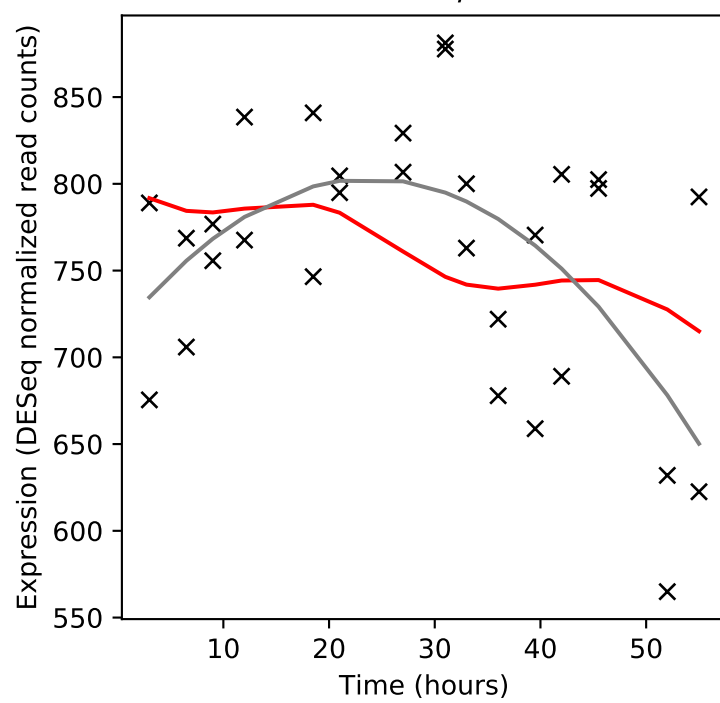
Rv2445c/ndkA



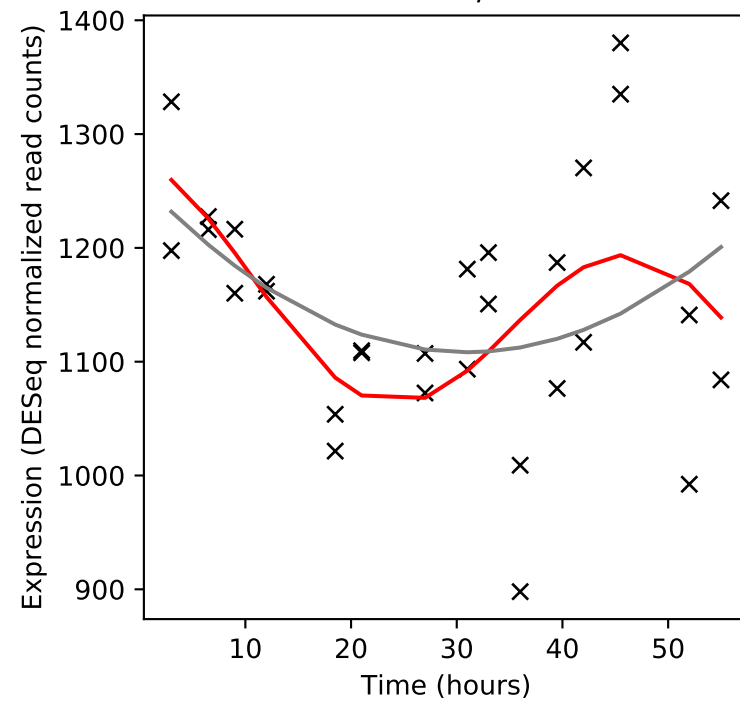
Rv2446c/-



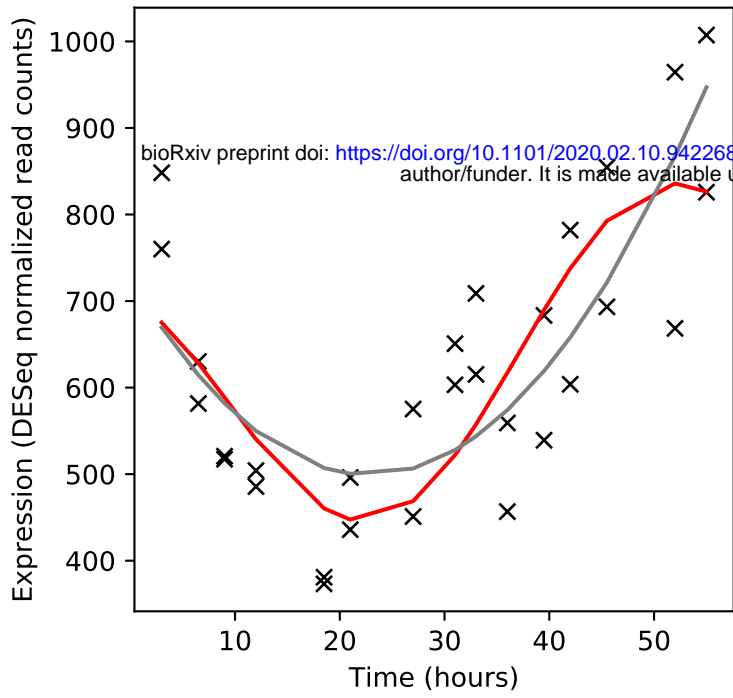
Rv2447c/foIc



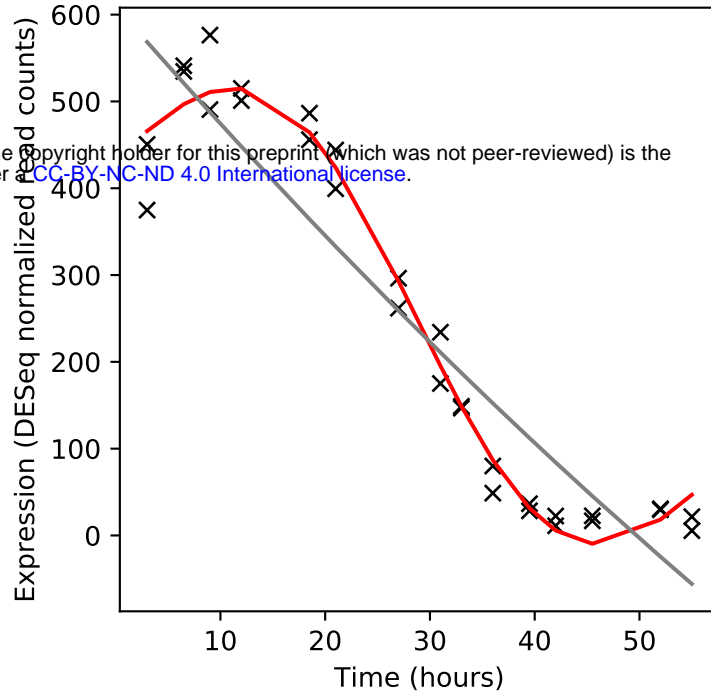
Rv2448c/valS



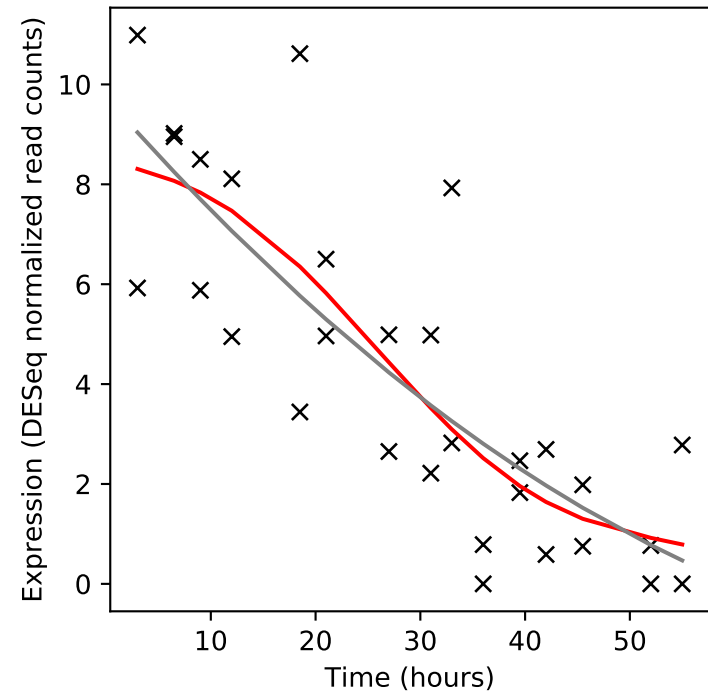
Rv2449c/-



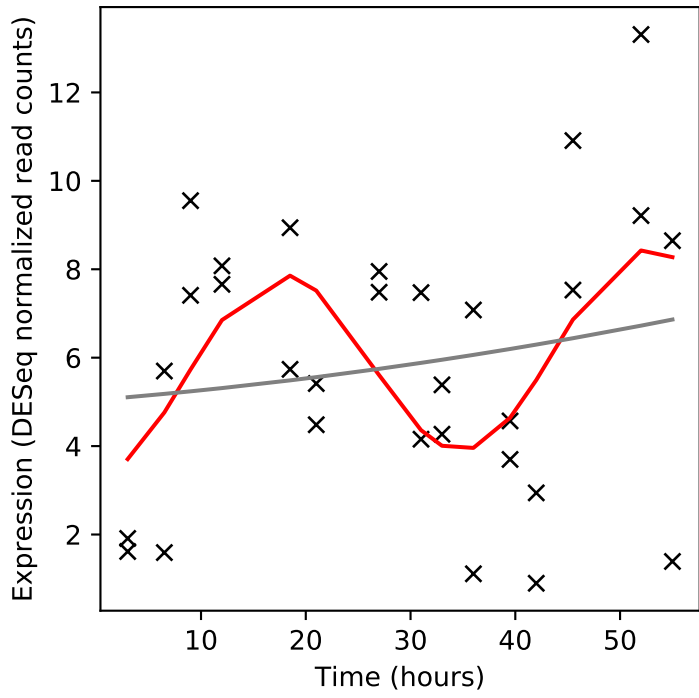
Rv2450c/rpfE



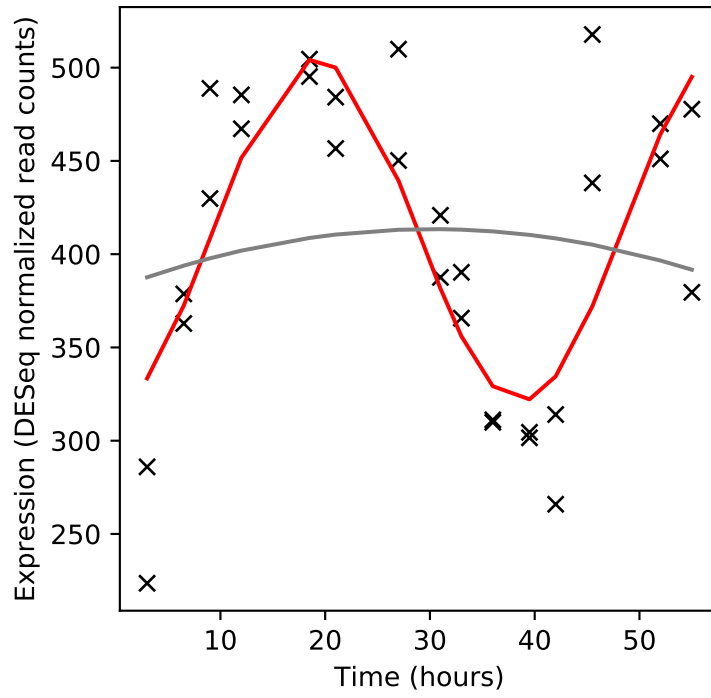
Rv2451/-



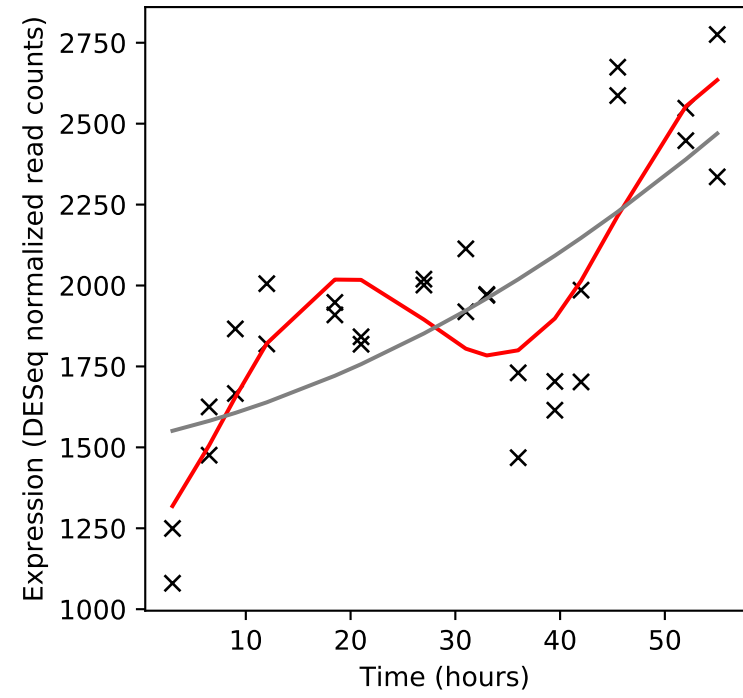
Rv2452c/-



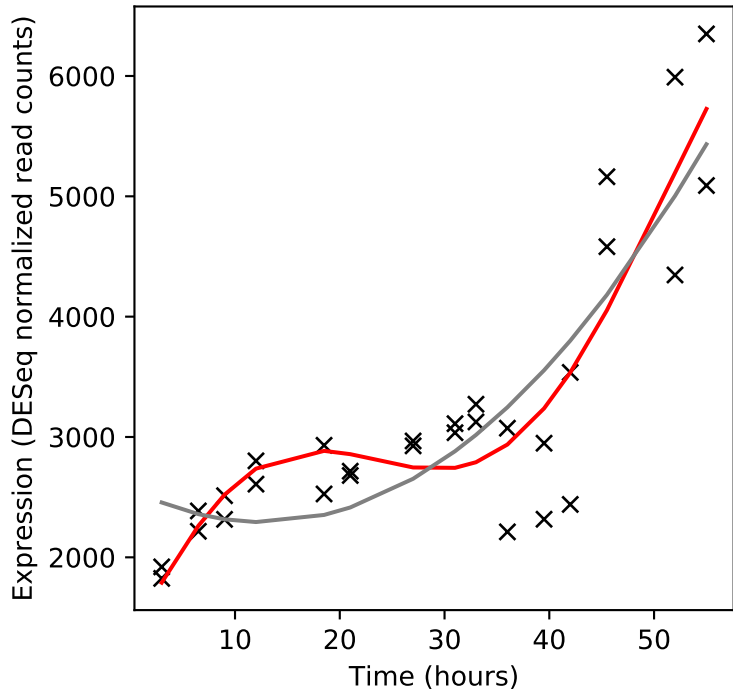
Rv2453c/mobA



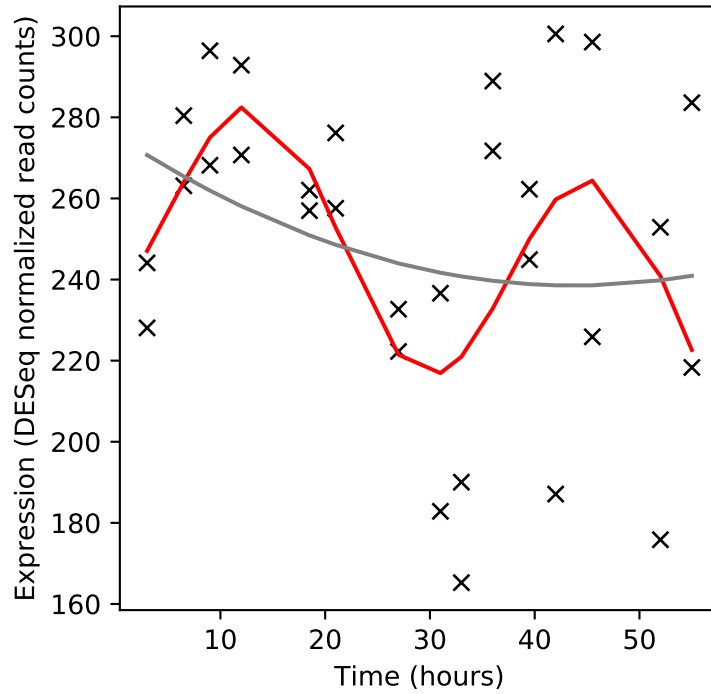
Rv2454c/-



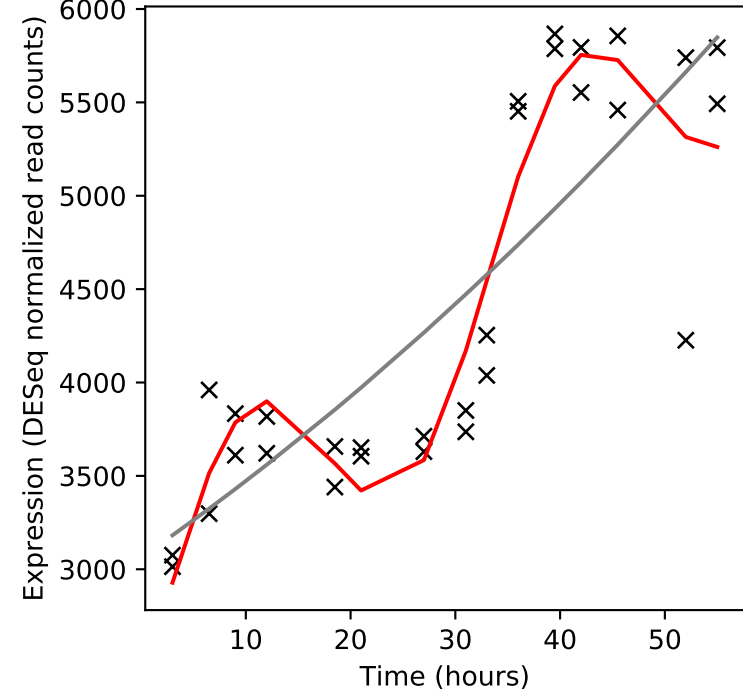
Rv2455c/-



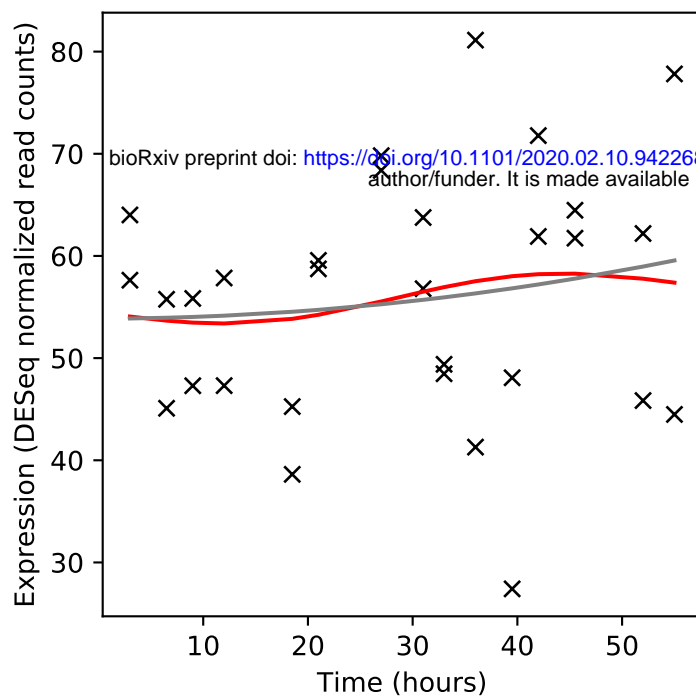
Rv2456c/-



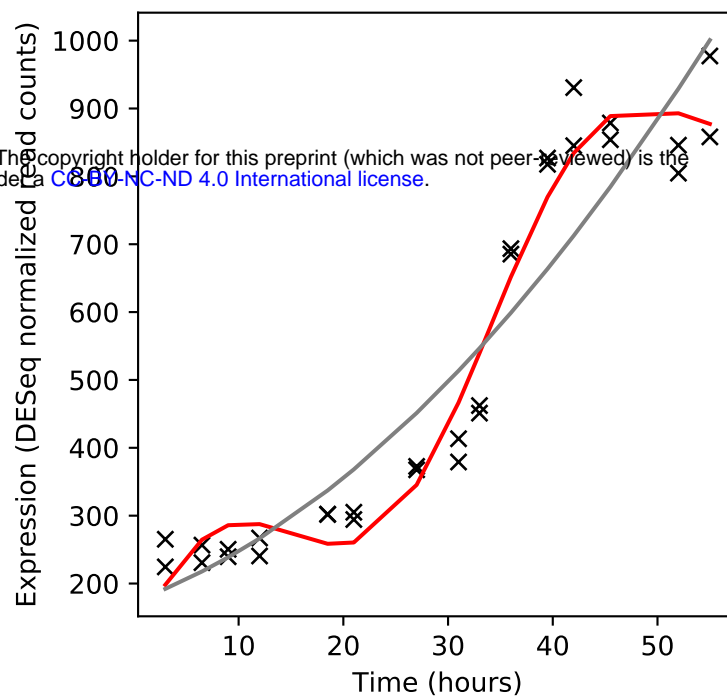
Rv2457c/clpX



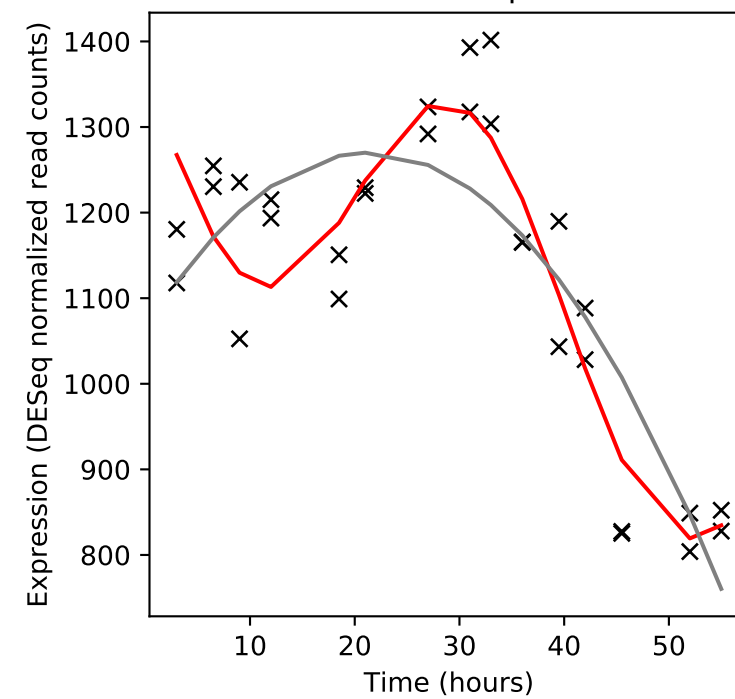
Rv2458/mmuM



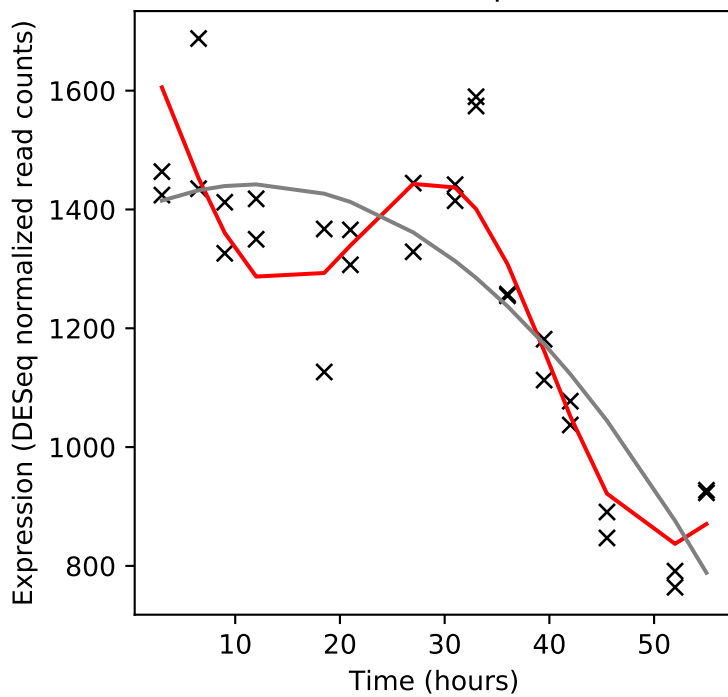
Rv2459/-



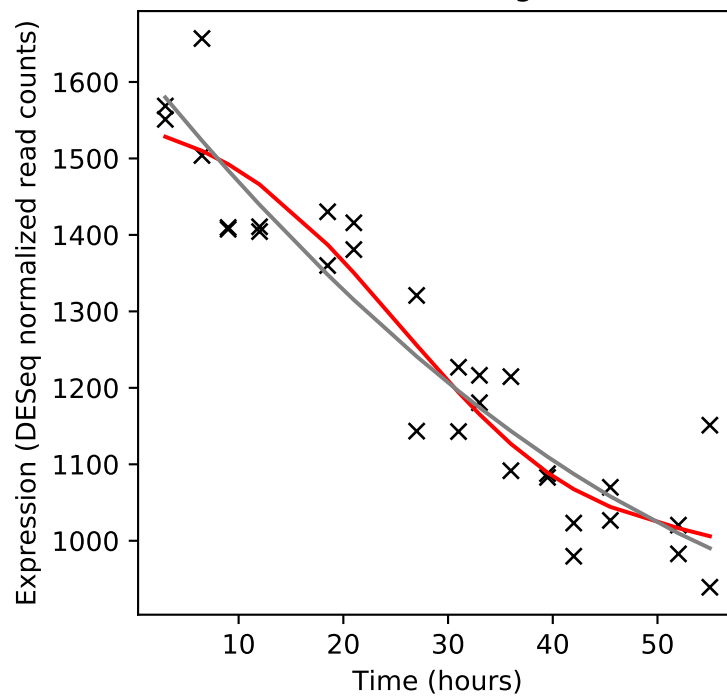
Rv2460c/clpP2



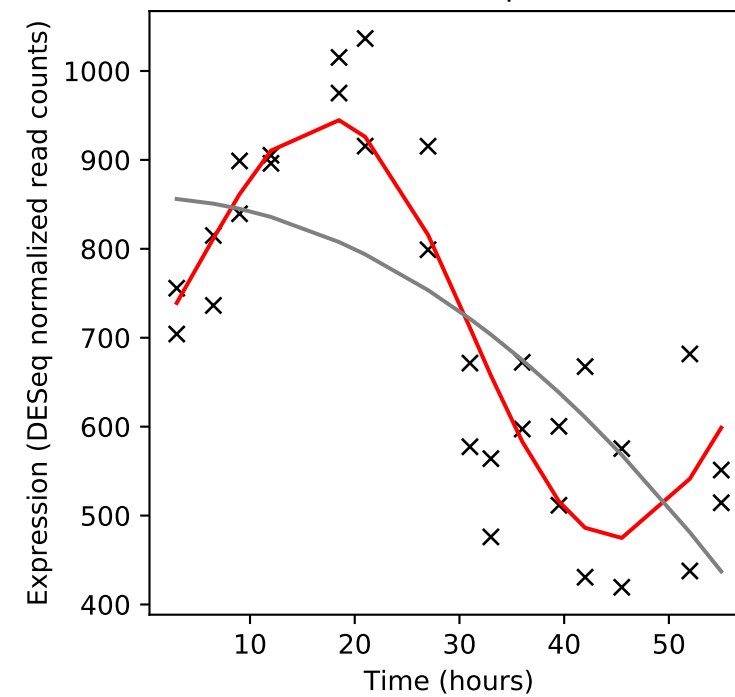
Rv2461c/clpP1



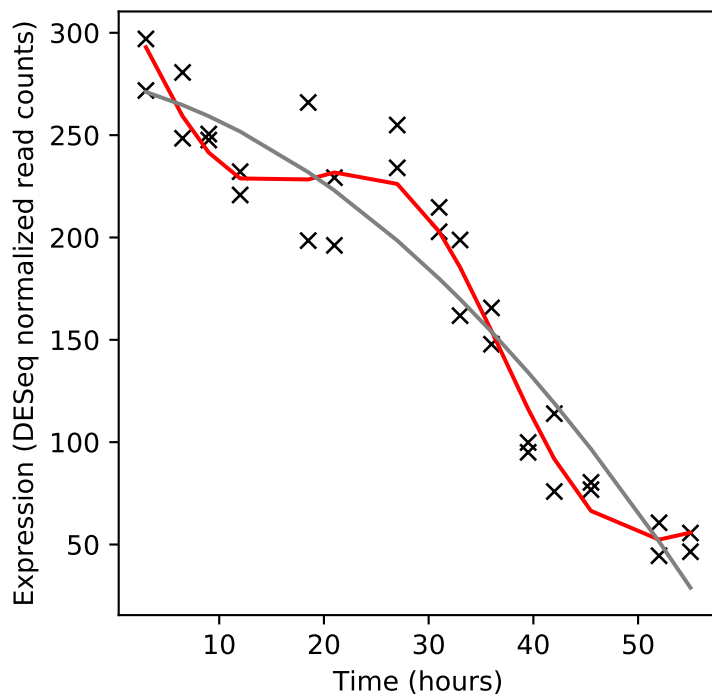
Rv2462c/tig



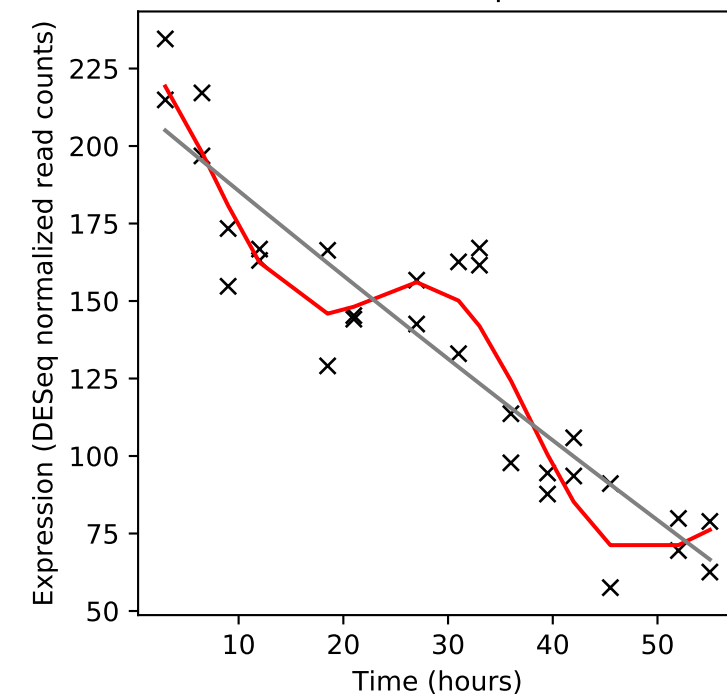
Rv2463/lipP



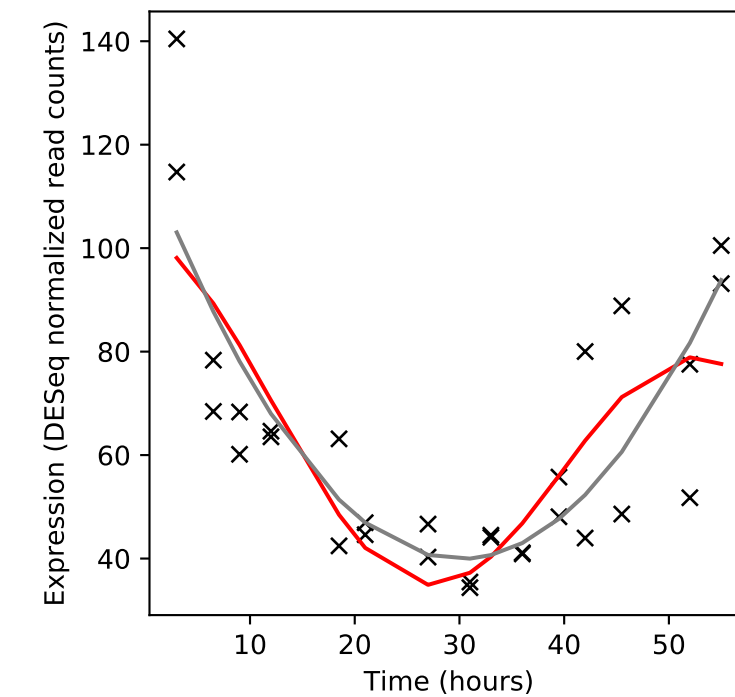
Rv2464c/-



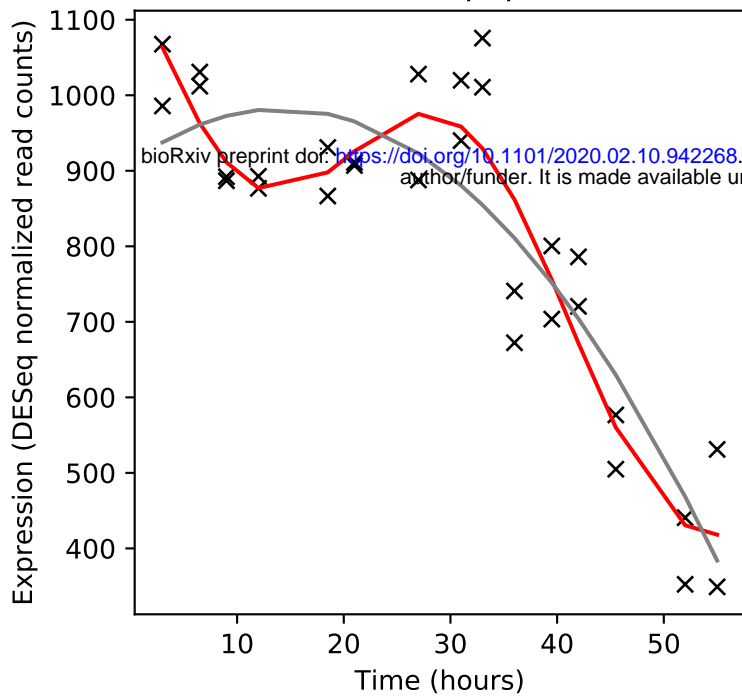
Rv2465c/rpiB



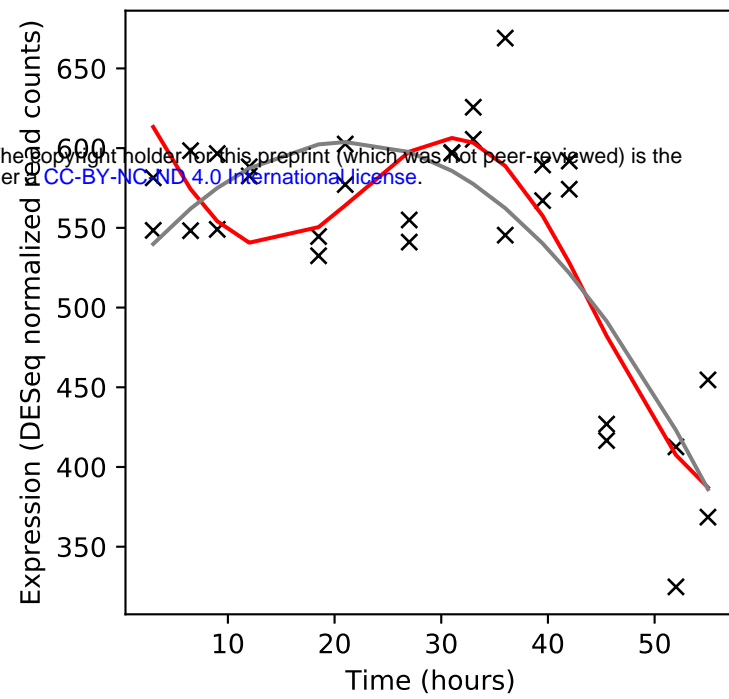
Rv2466c/-



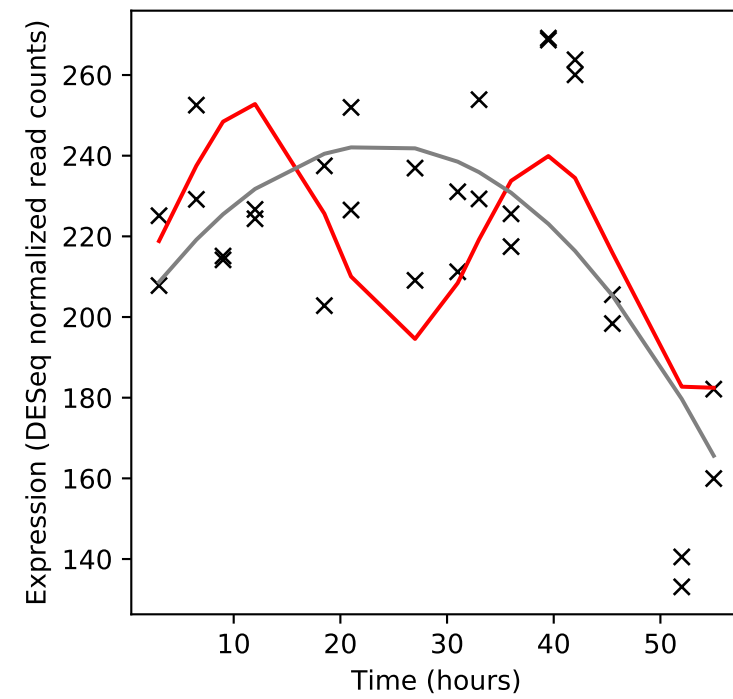
Rv2467/pepN



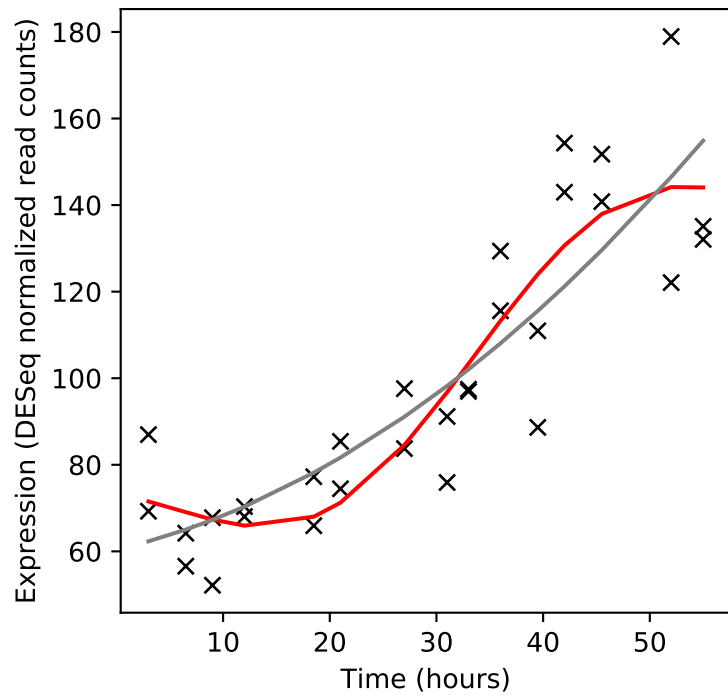
Rv2468c/-



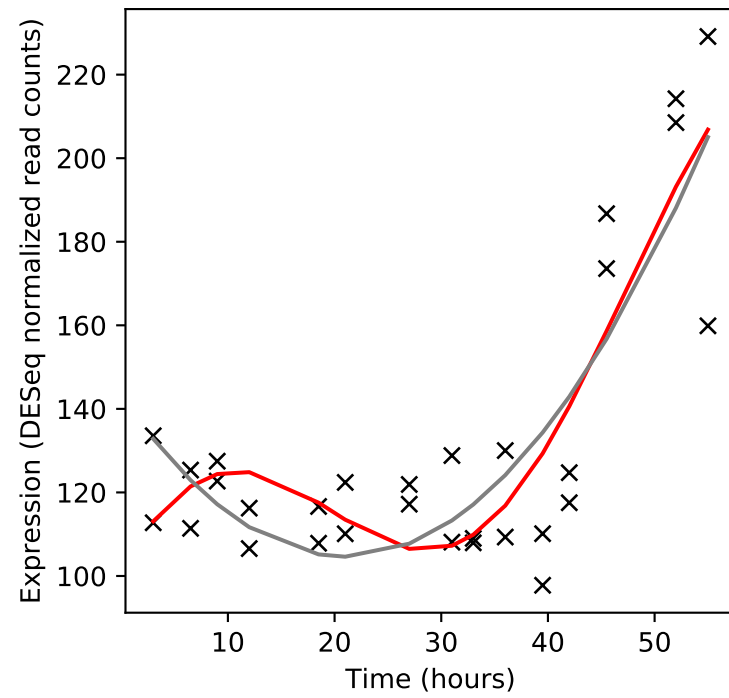
Rv2468A/-



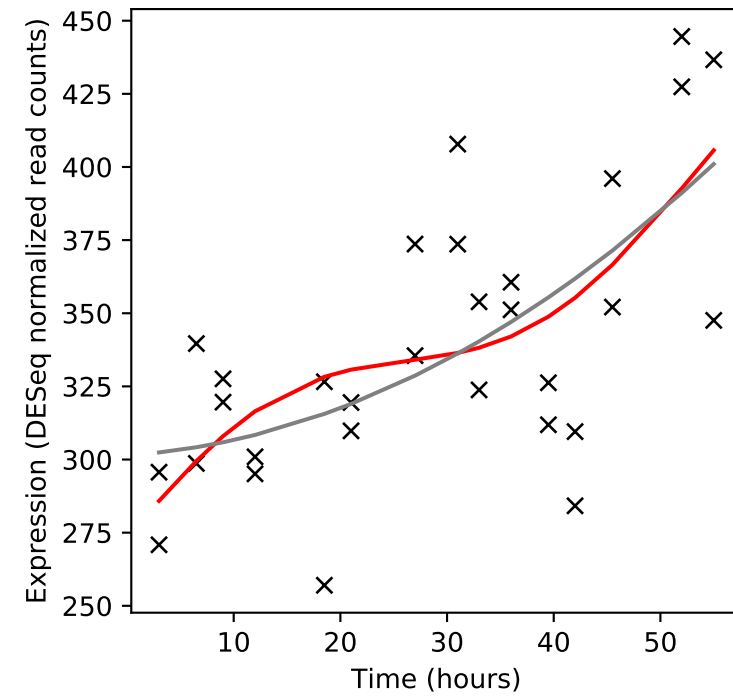
Rv2469c/-



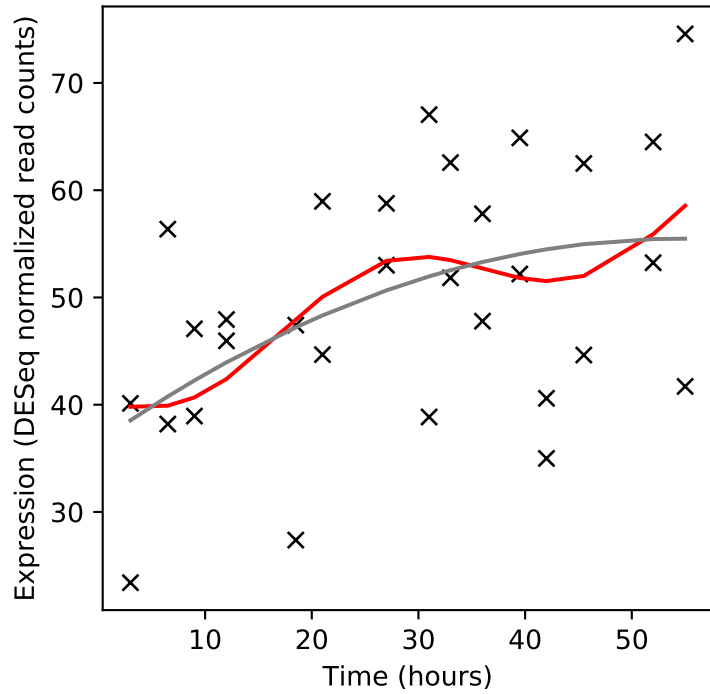
Rv2470/glbO



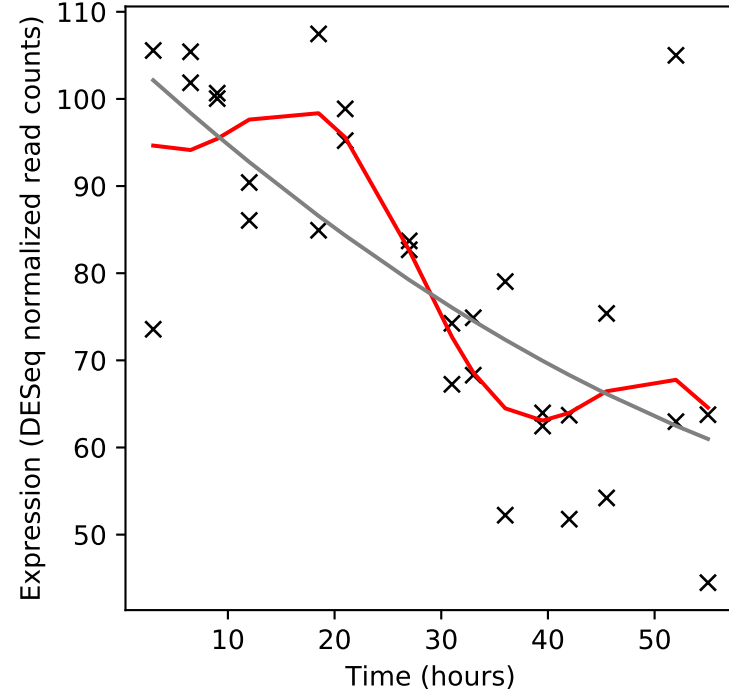
Rv2471/aglA



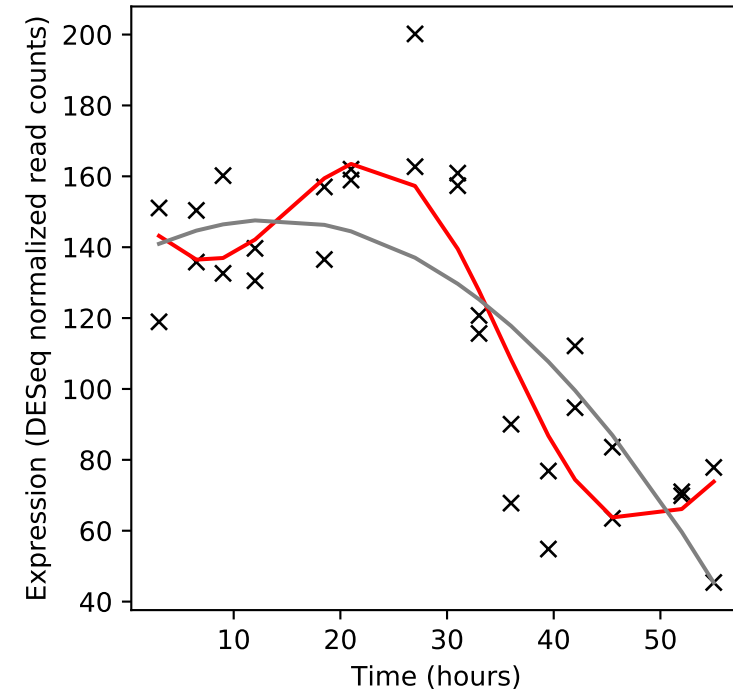
Rv2472/-



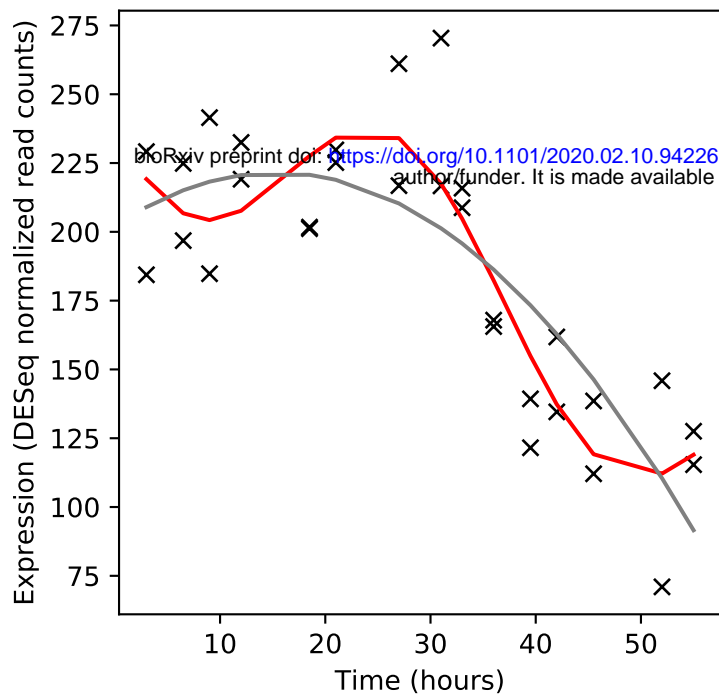
Rv2473/-



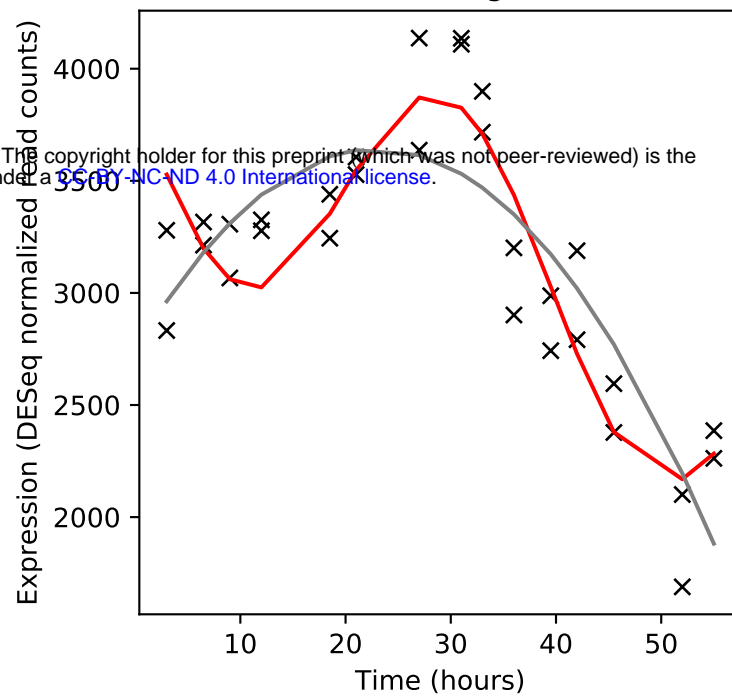
Rv2474c/-



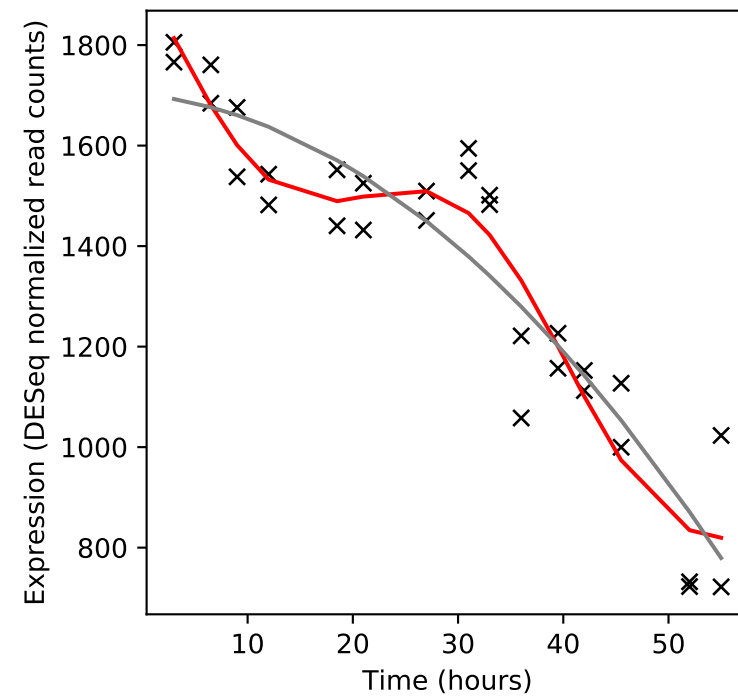
Rv2475c/-



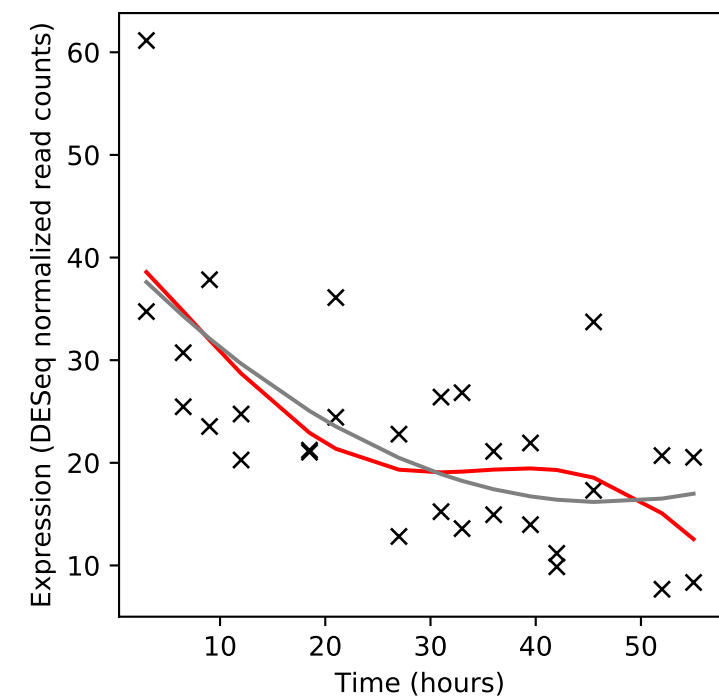
Rv2476c/gdh



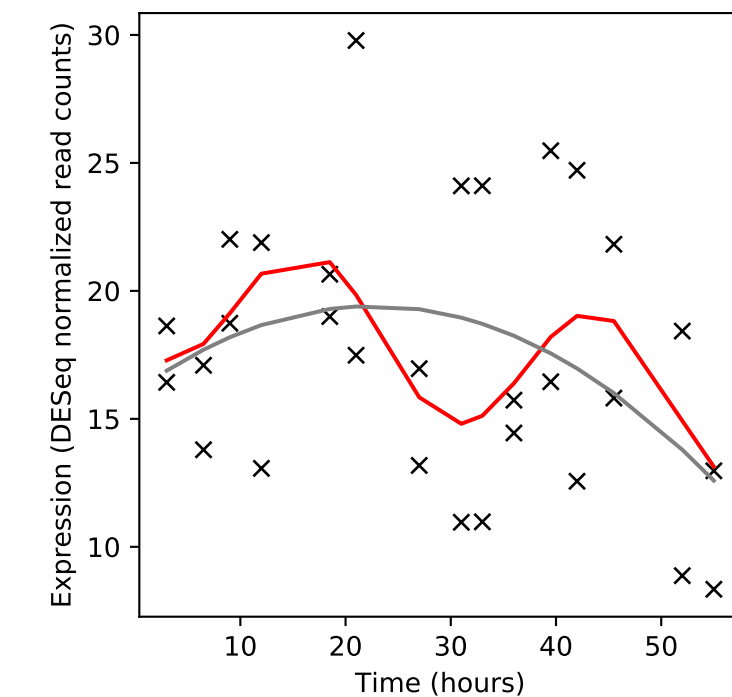
Rv2477c/-



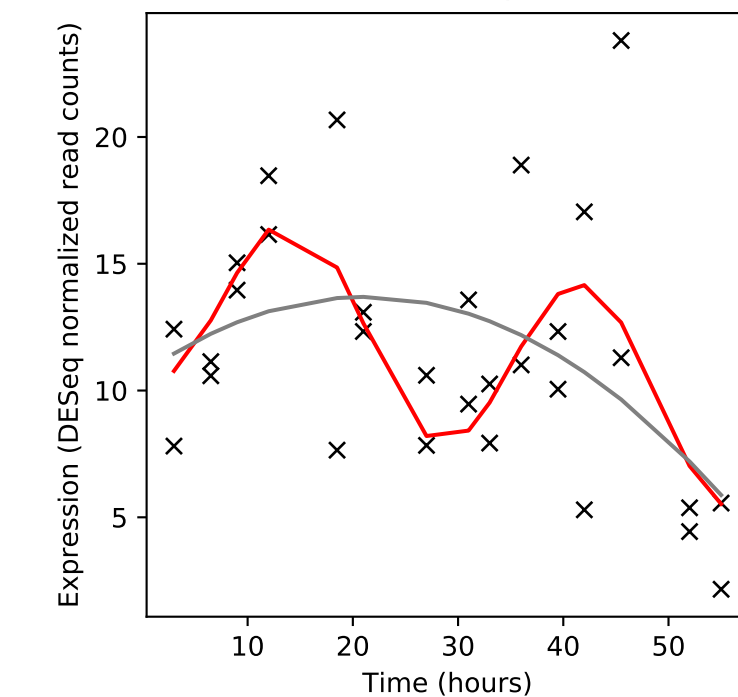
Rv2478c/-



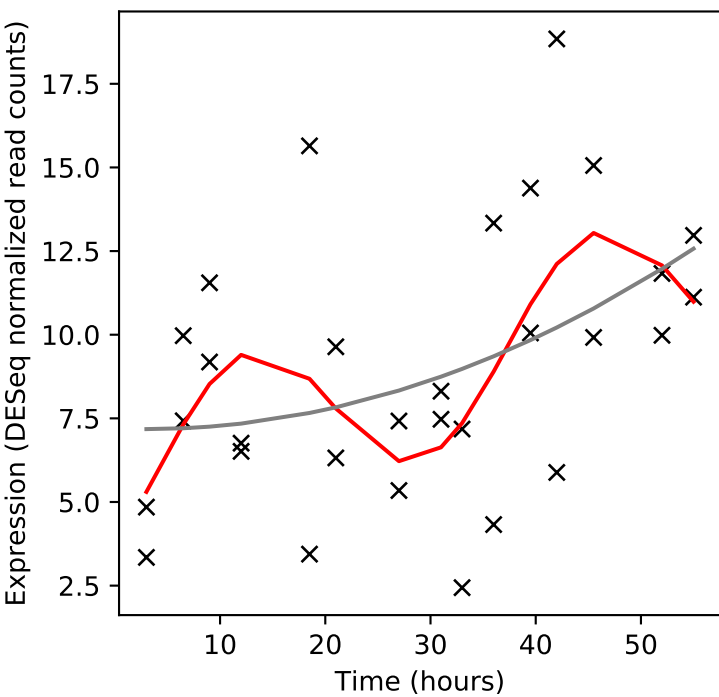
Rv2479c/-



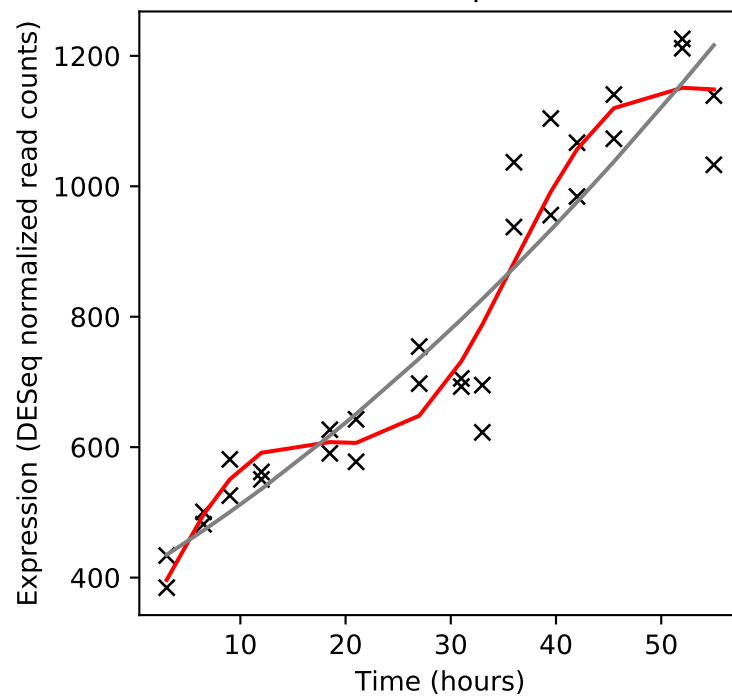
Rv2480c/-



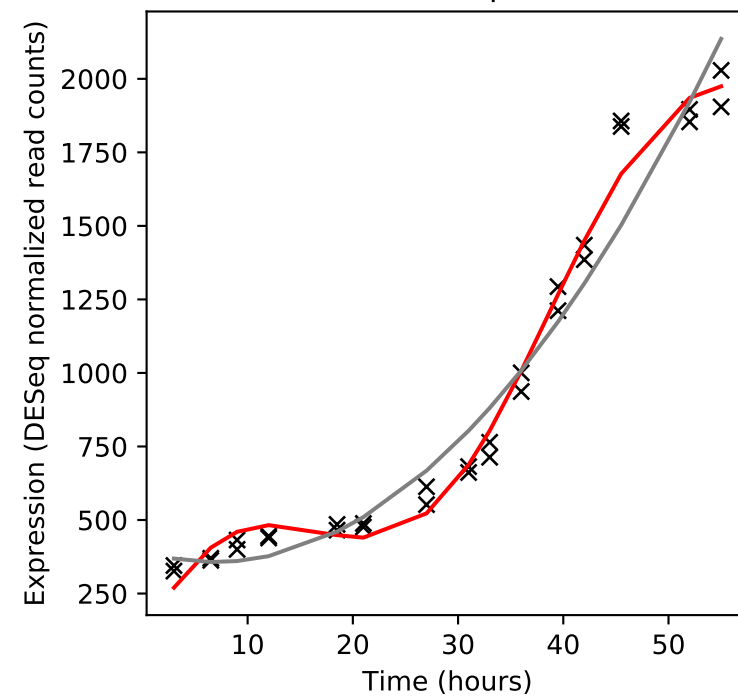
Rv2481c/-



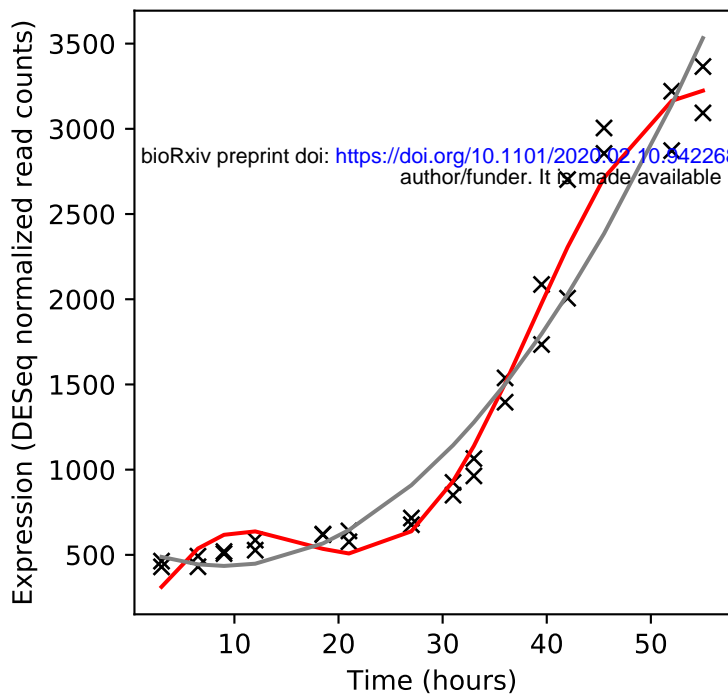
Rv2482c/plsB2



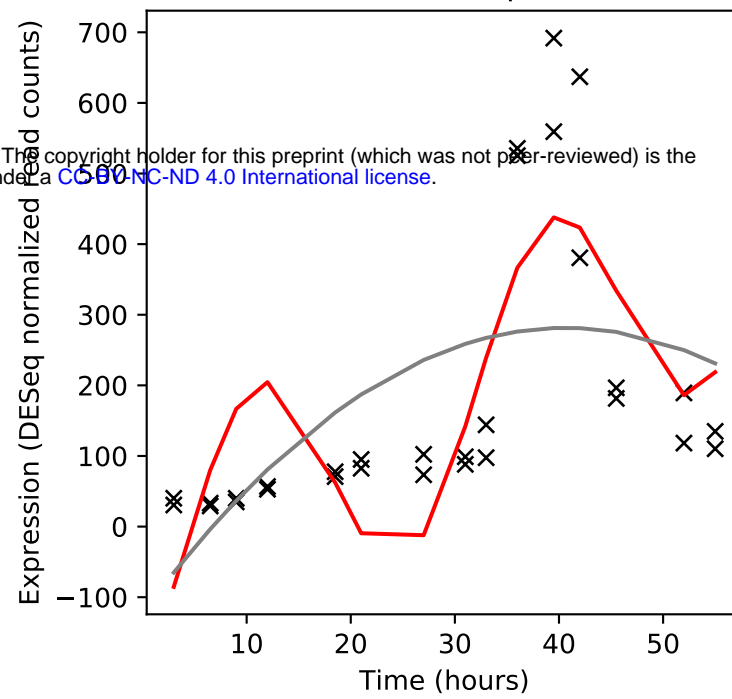
Rv2483c/plsC



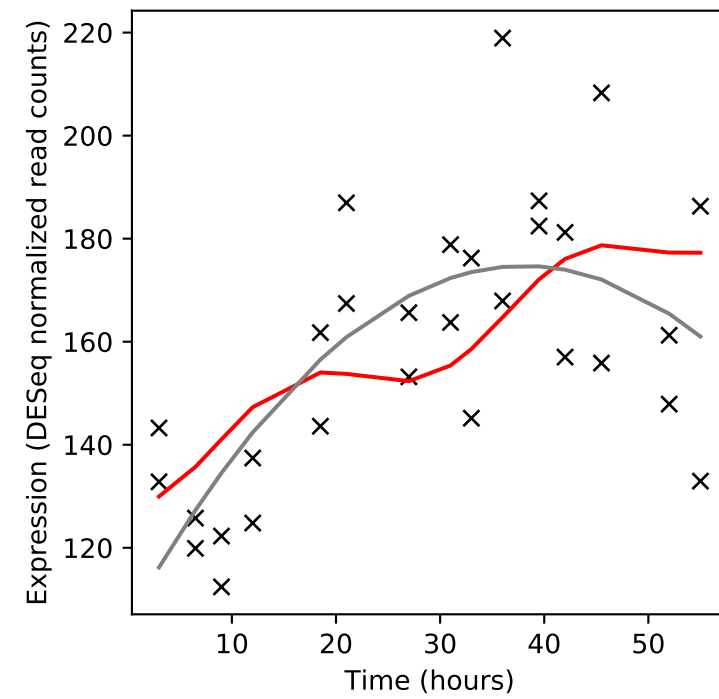
Rv2484c/-



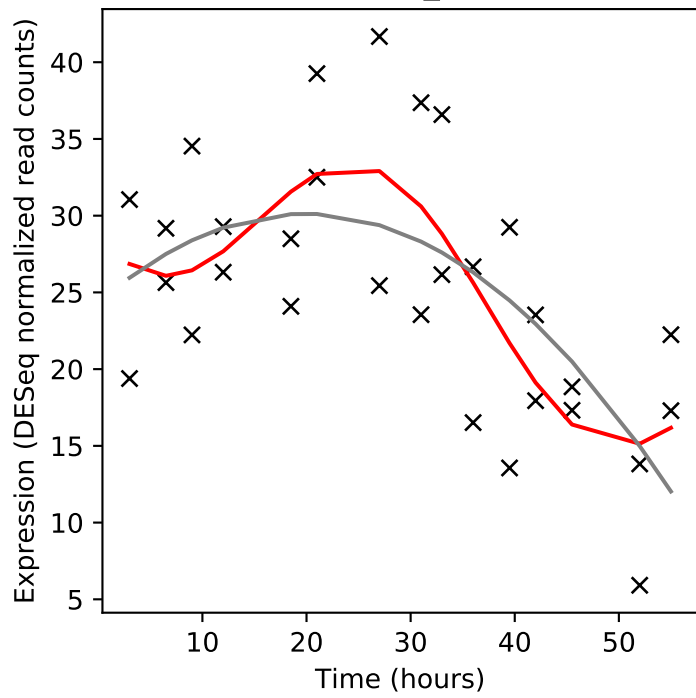
Rv2485c/lipQ



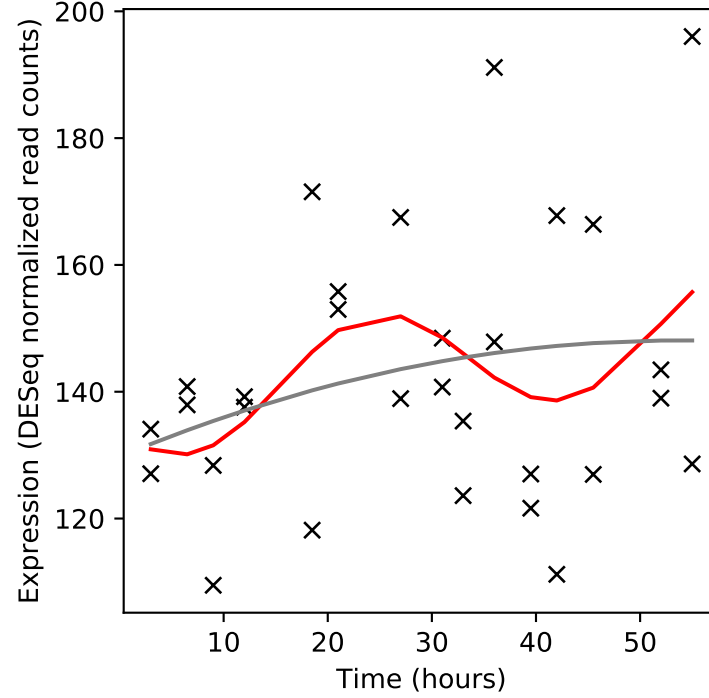
Rv2486/echA14



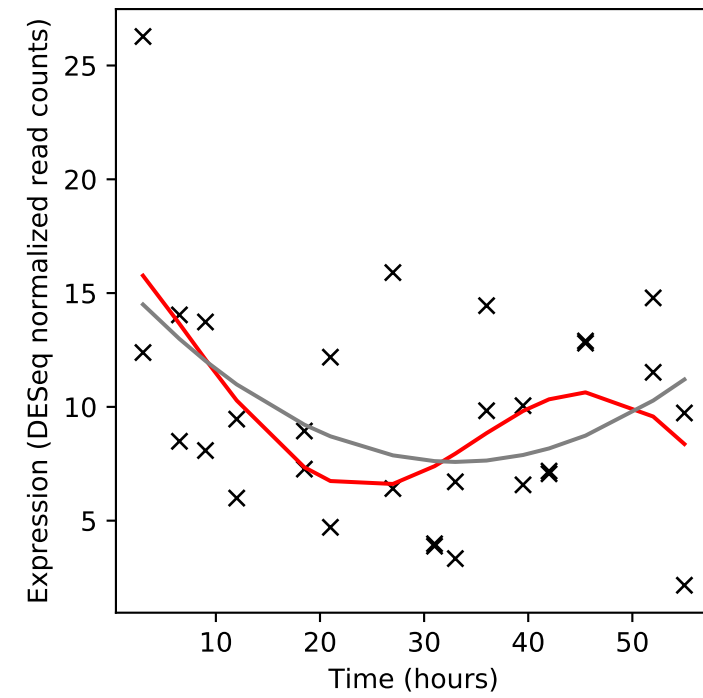
Rv2487c/PE_PGRS42



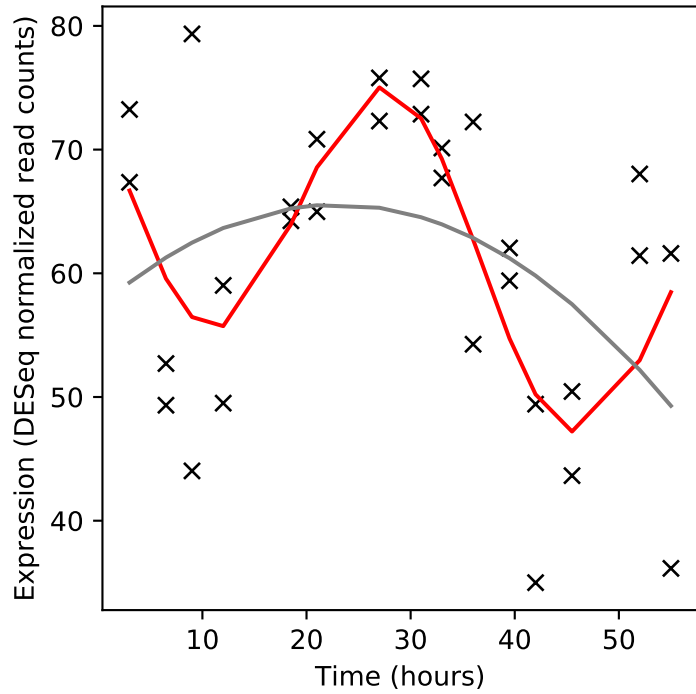
Rv2488c/-



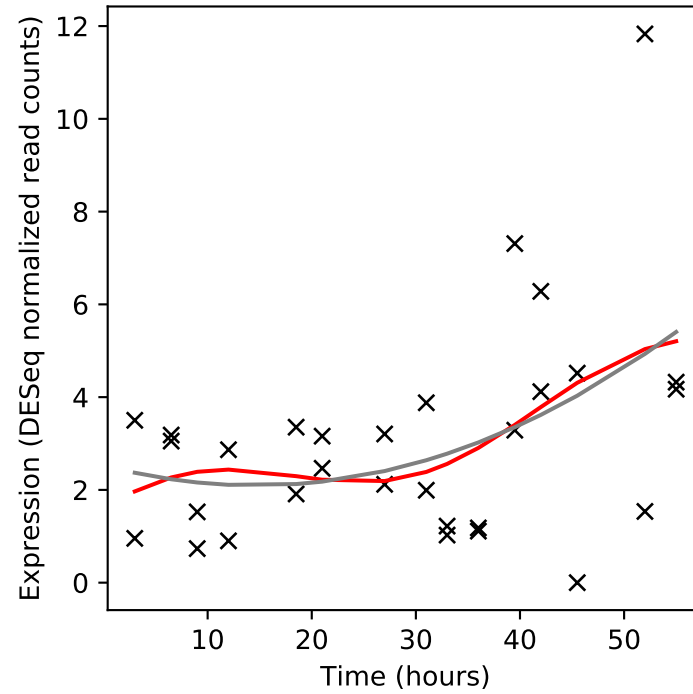
Rv2489c/-



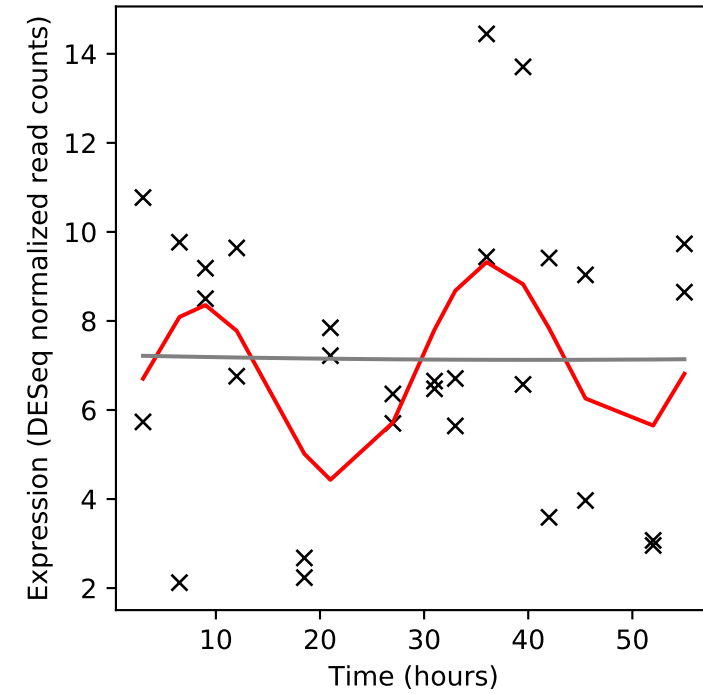
Rv2490c/PE_PGRS43



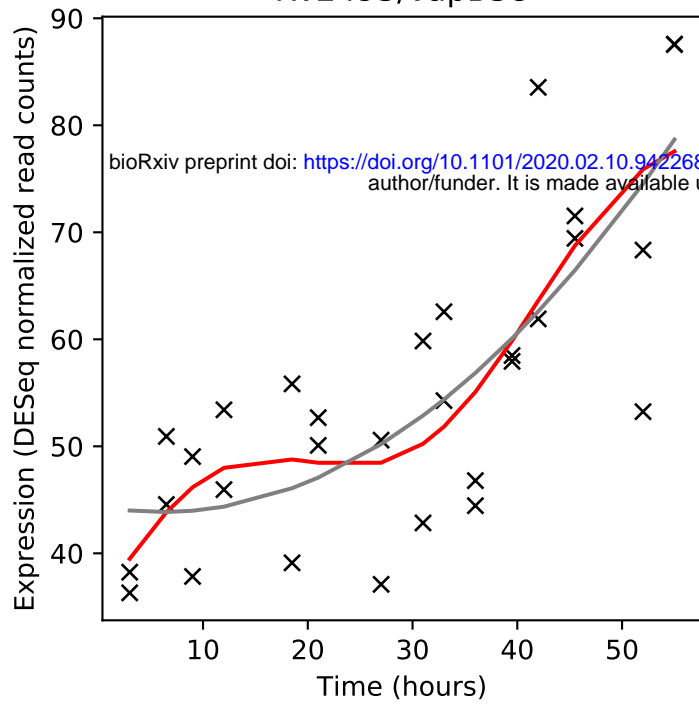
Rv2491/-



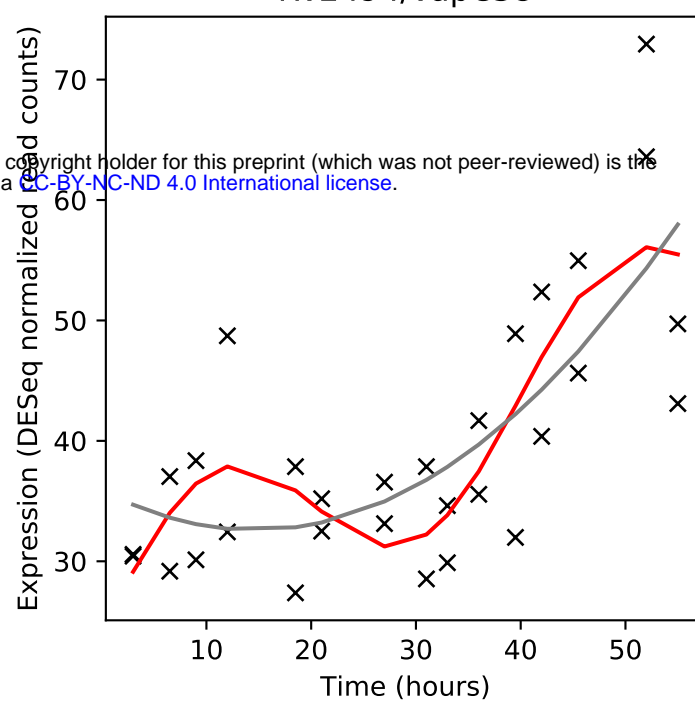
Rv2492/-



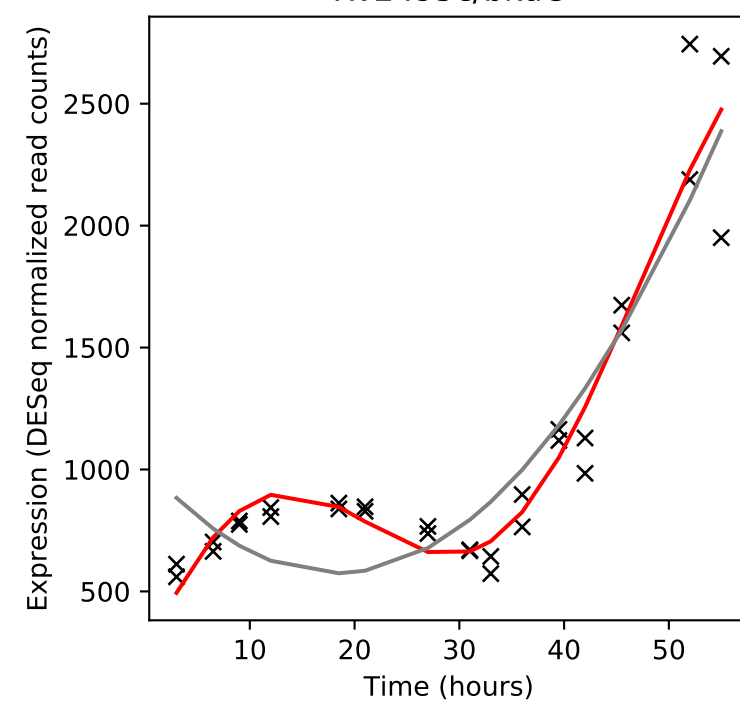
Rv2493/vapB38



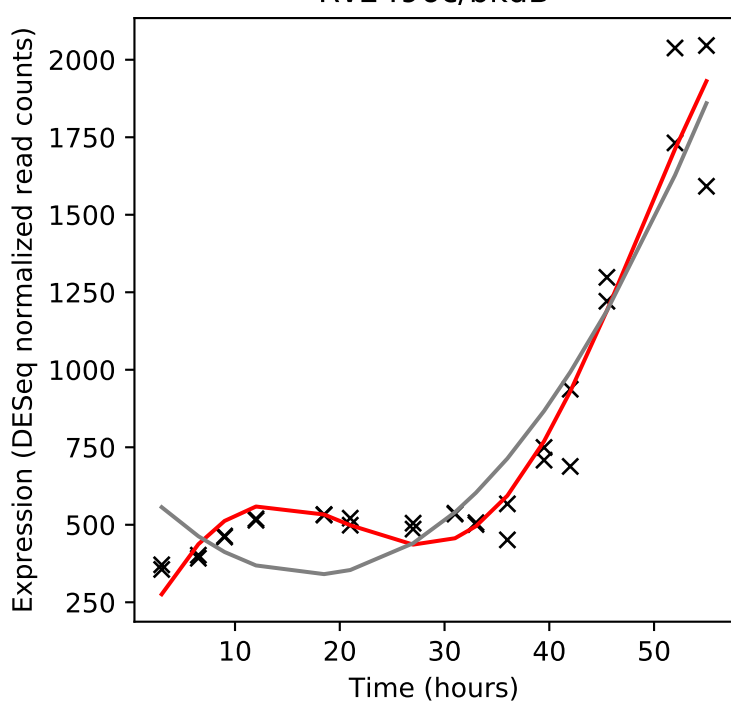
Rv2494/vapC38



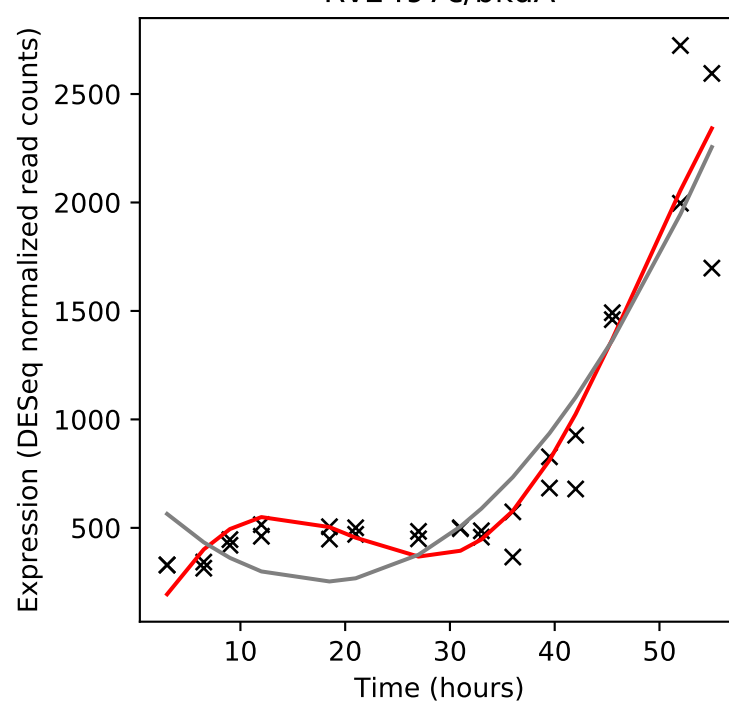
Rv2495c/bkdC



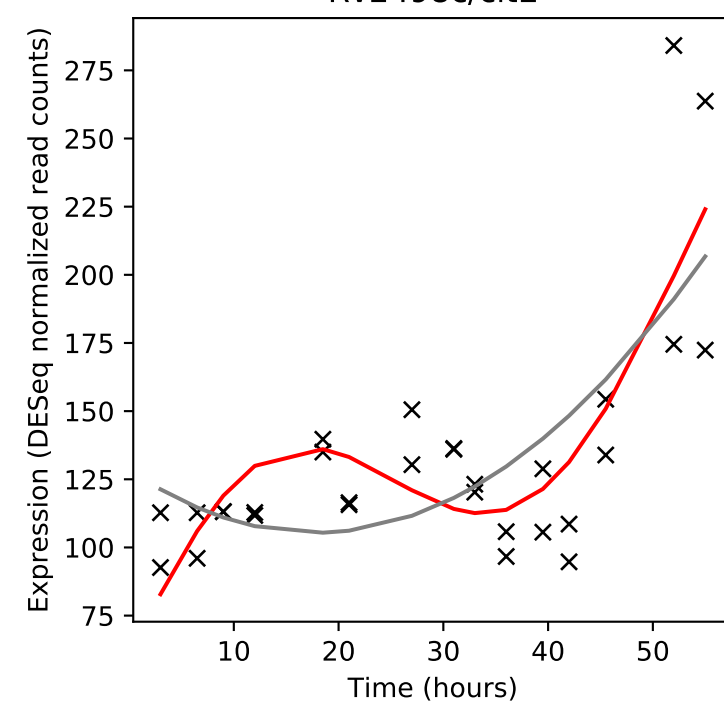
Rv2496c/bkdB



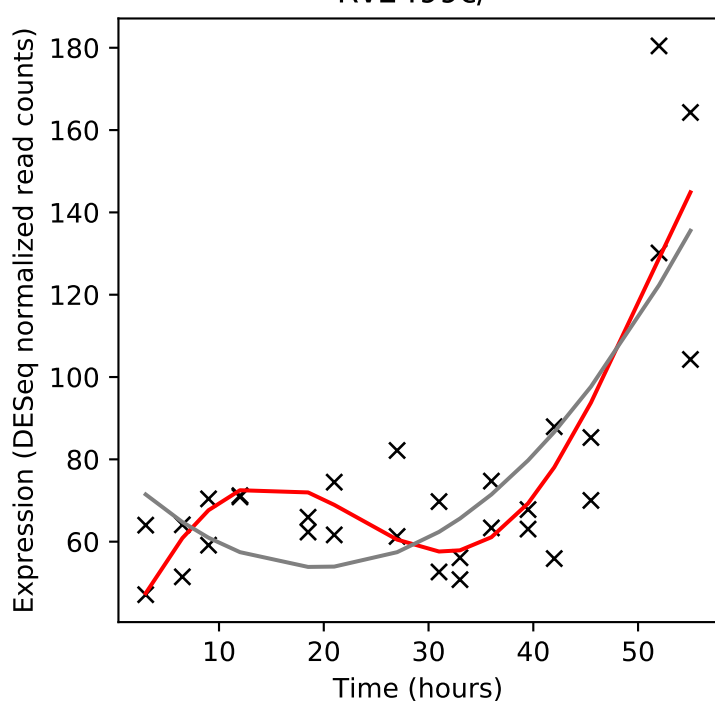
Rv2497c/bkdA



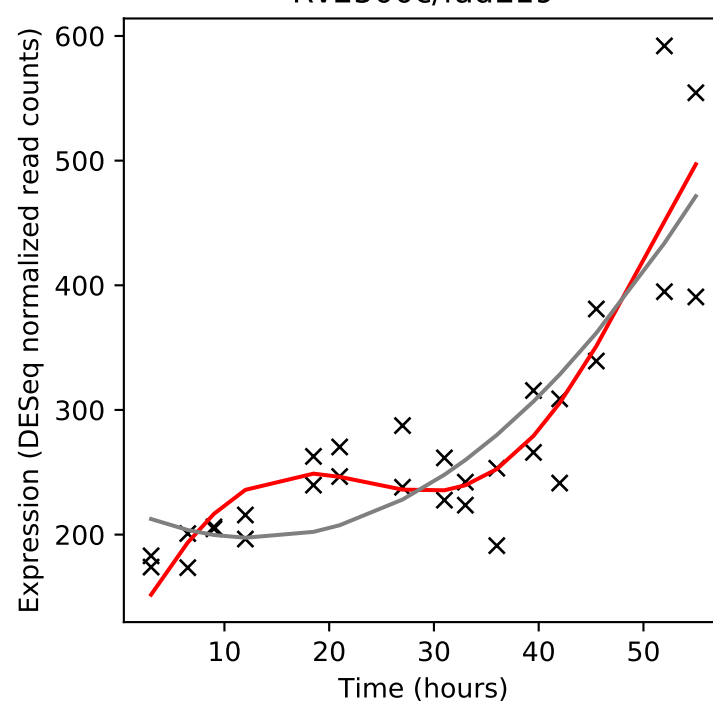
Rv2498c/citE



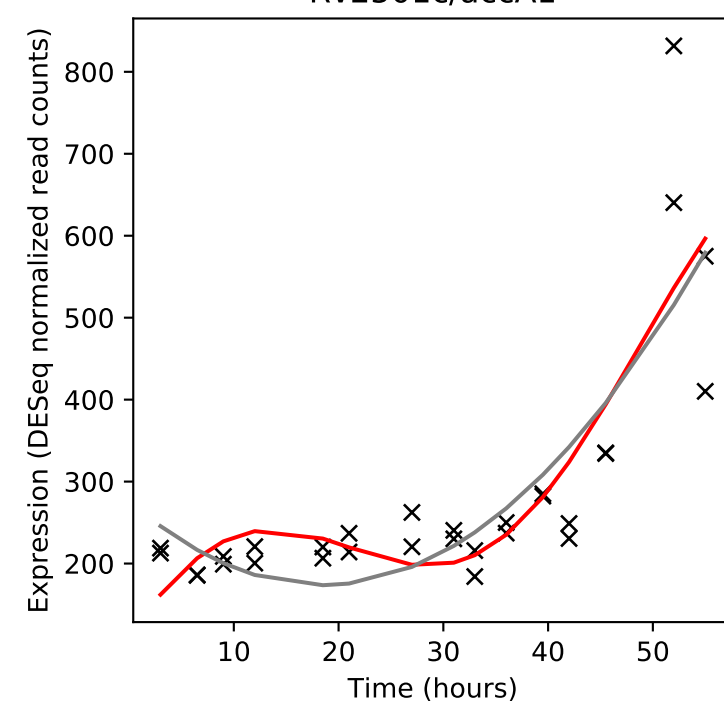
Rv2499c/-



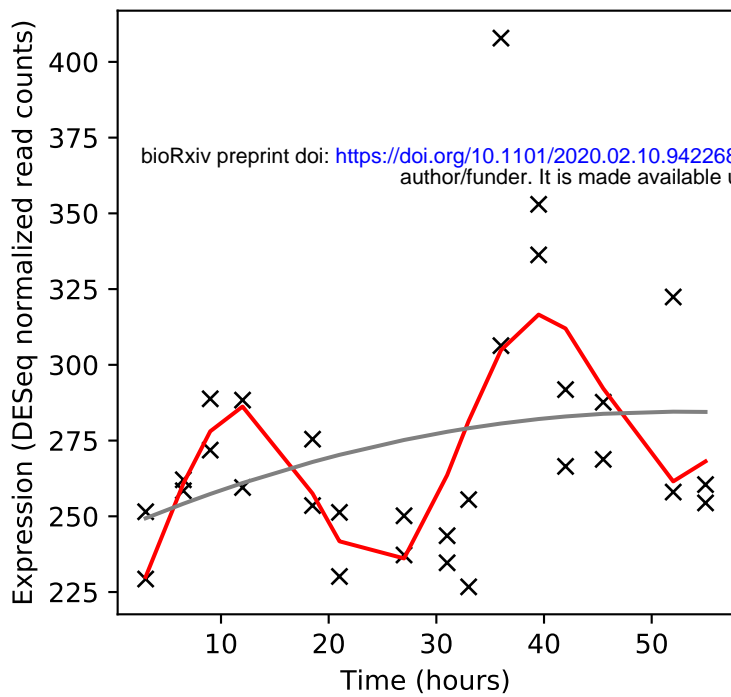
Rv2500c/fadE19



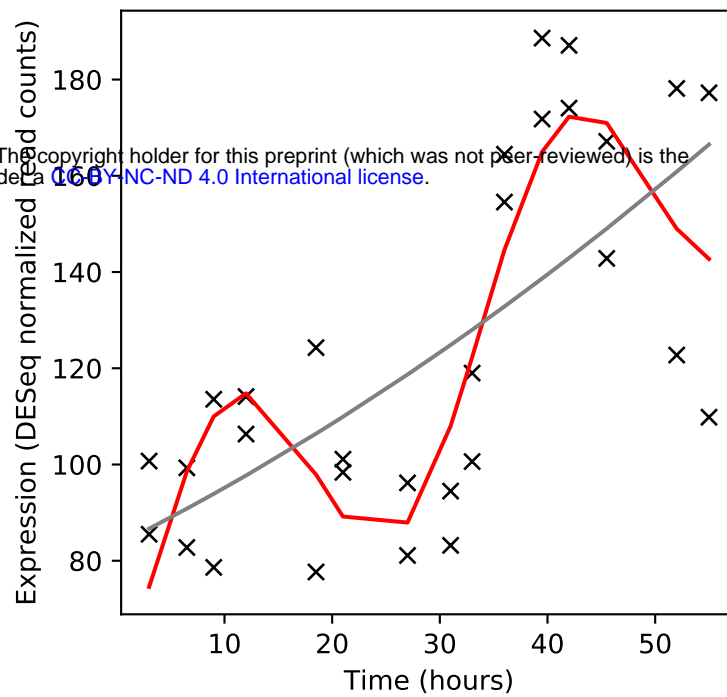
Rv2501c/accA1



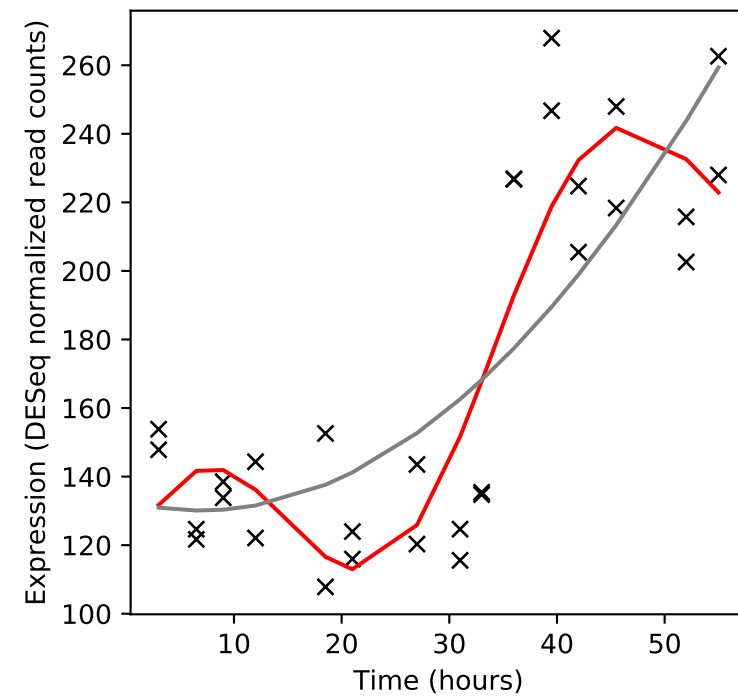
Rv2502c/accD1



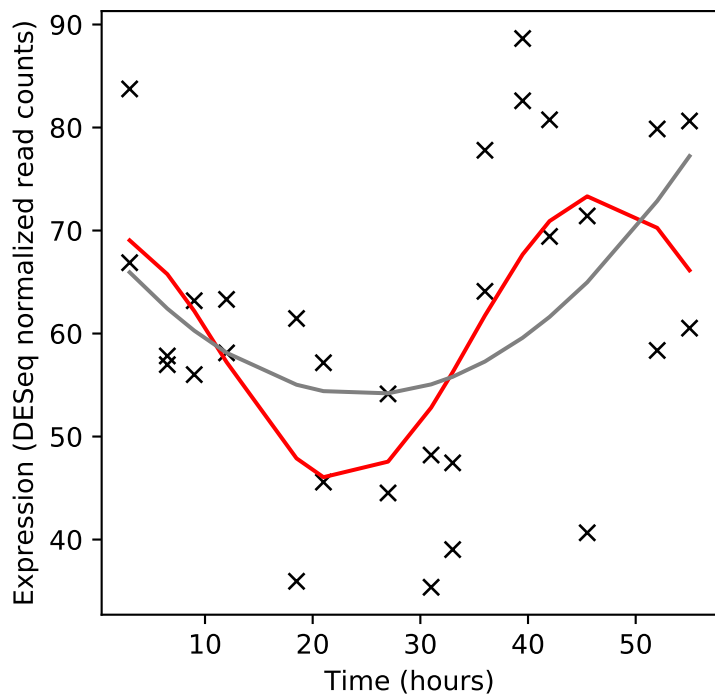
Rv2503c/scoB



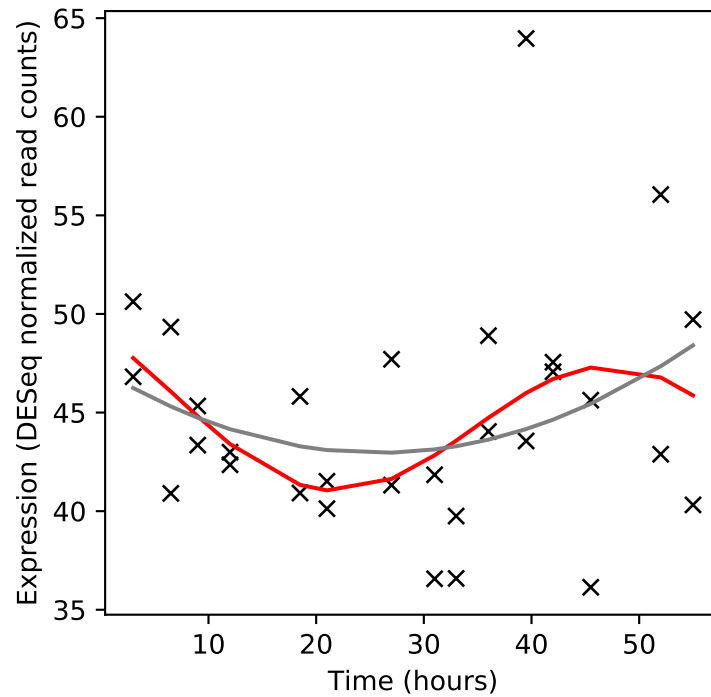
Rv2504c/scoA



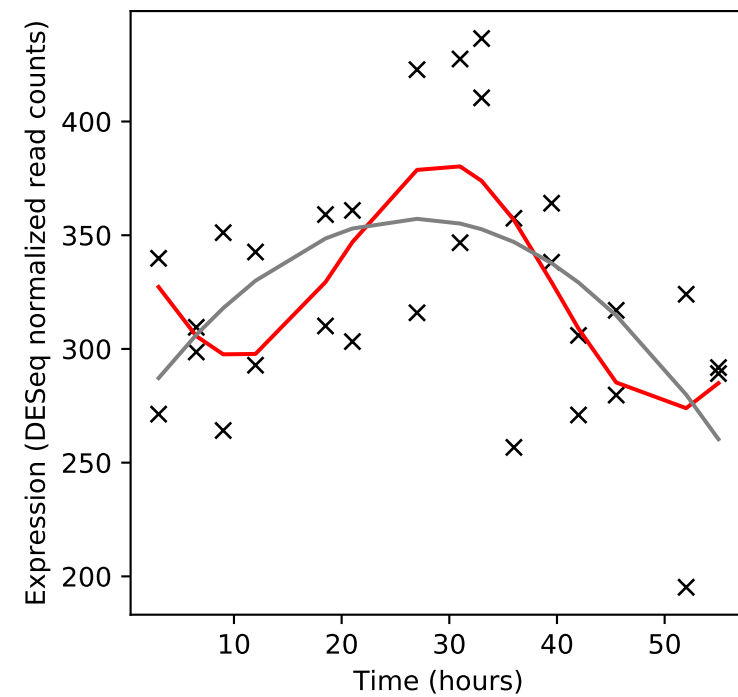
Rv2505c/fadD35



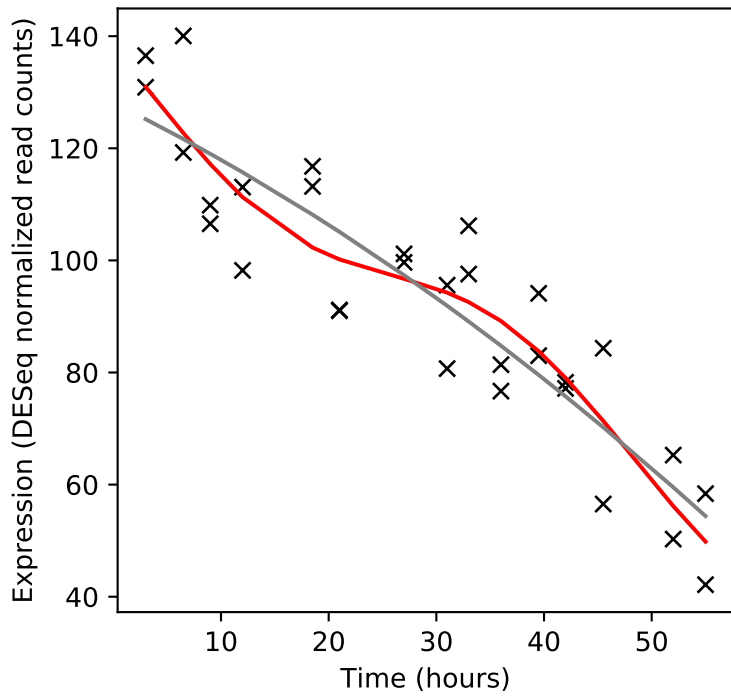
Rv2506/-



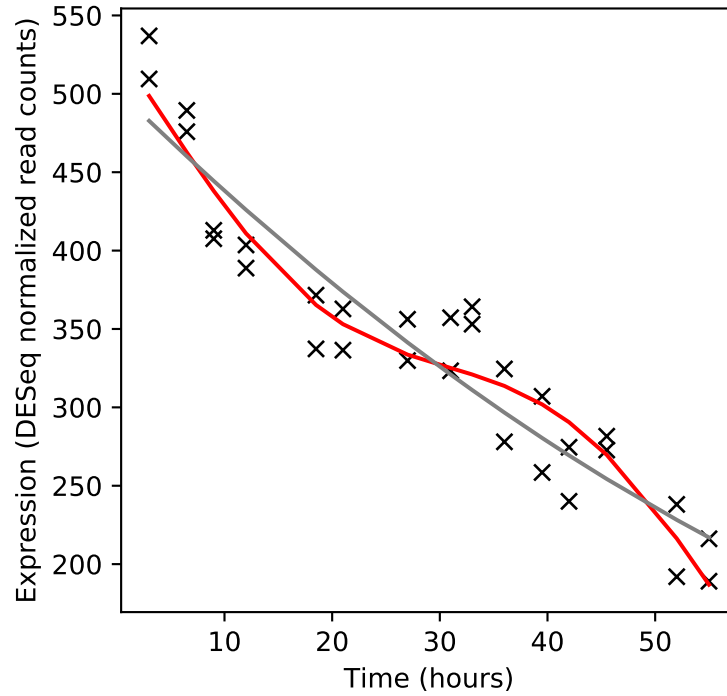
Rv2507/-



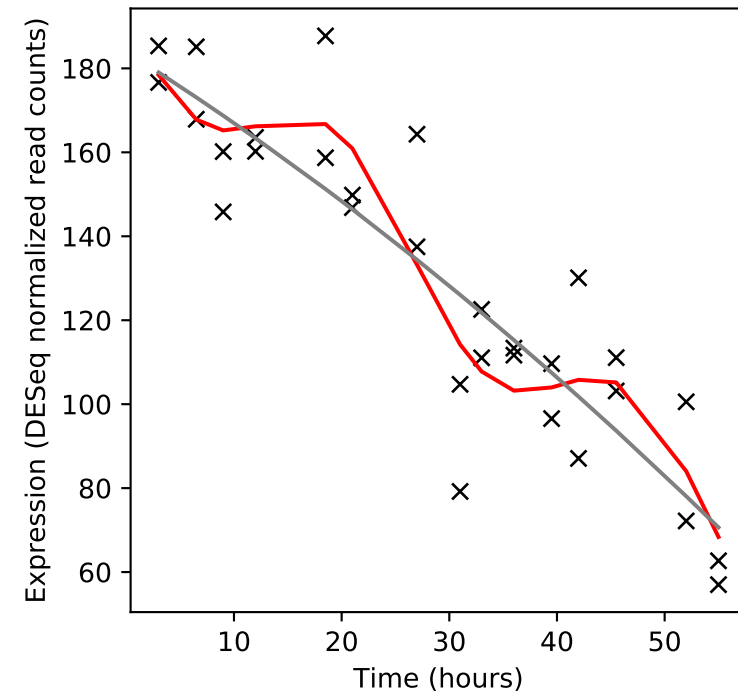
Rv2508c/-



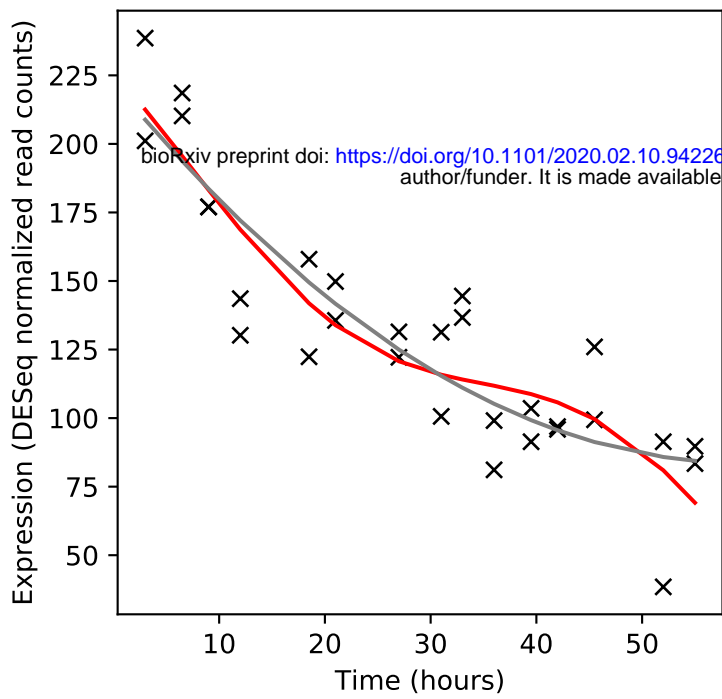
Rv2509/-



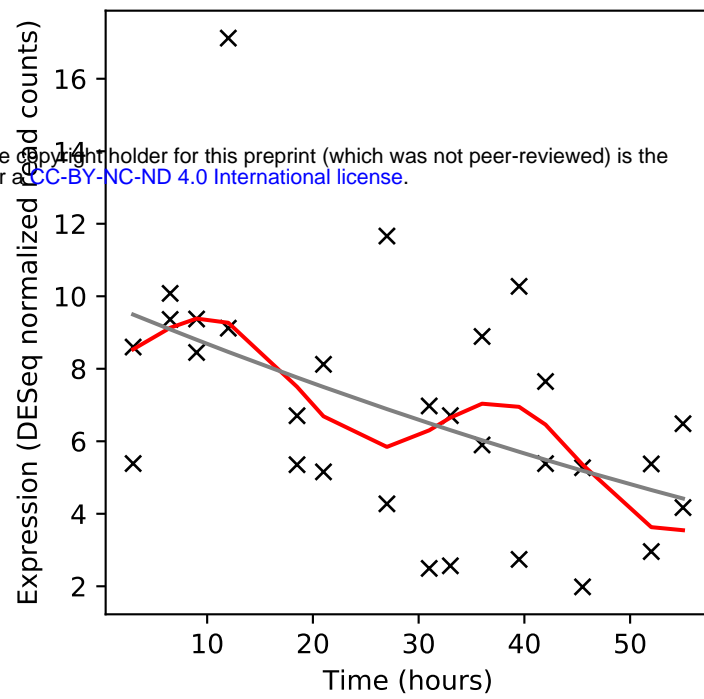
Rv2510c/-



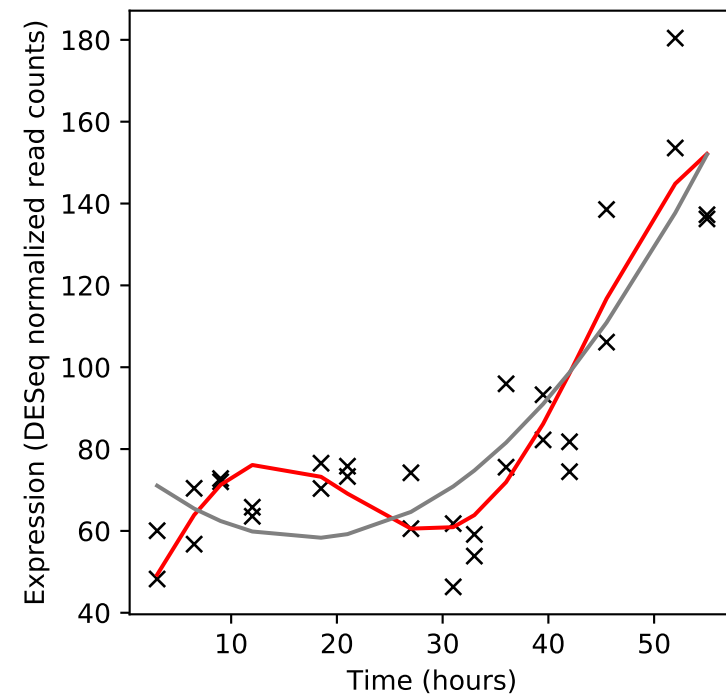
Rv2511/orn



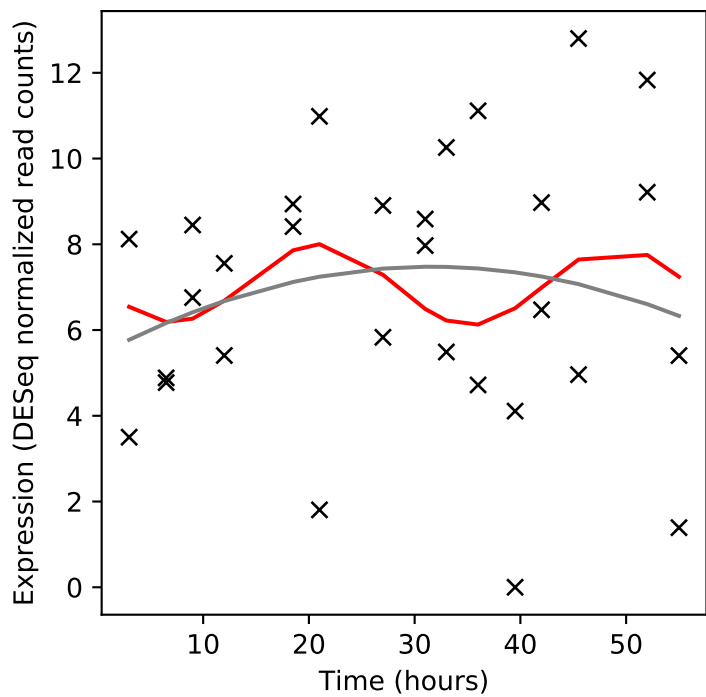
Rv2512c/-



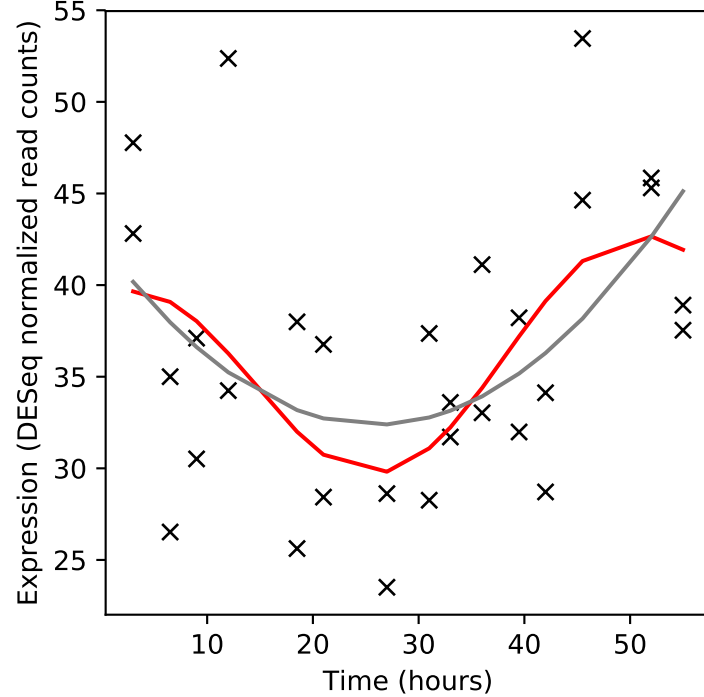
Rv2513/-



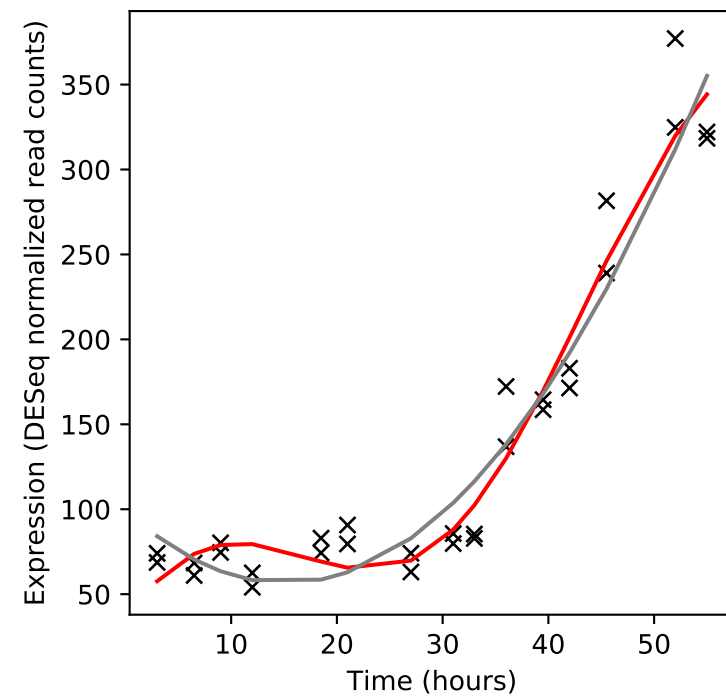
Rv2514c/-



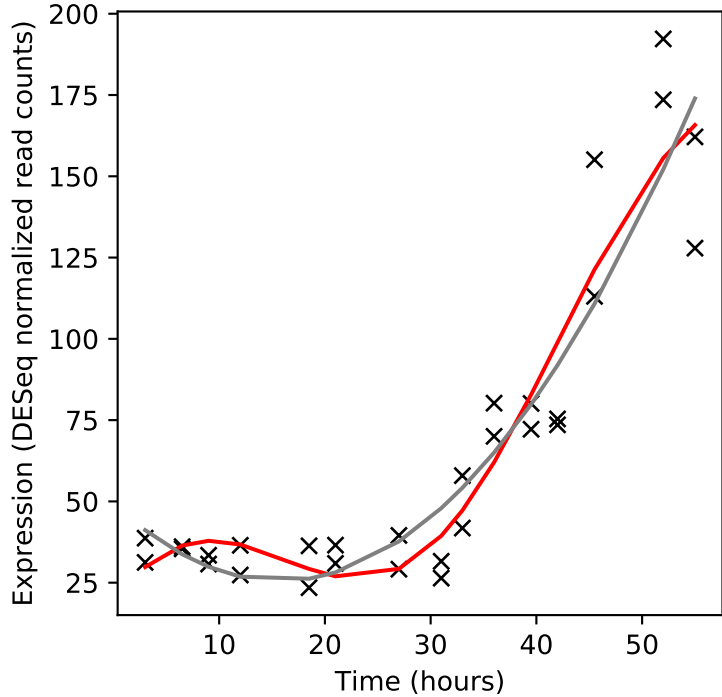
Rv2515c/-



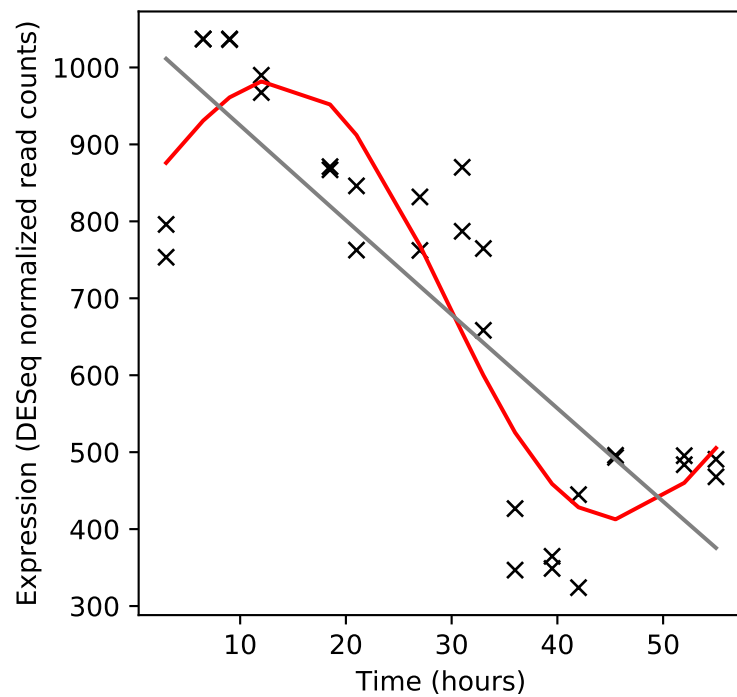
Rv2516c/-



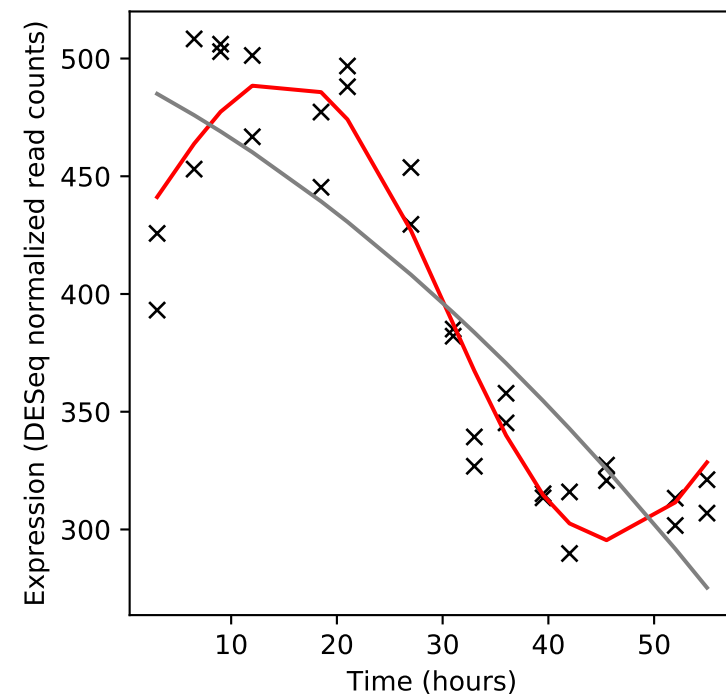
Rv2517c/-



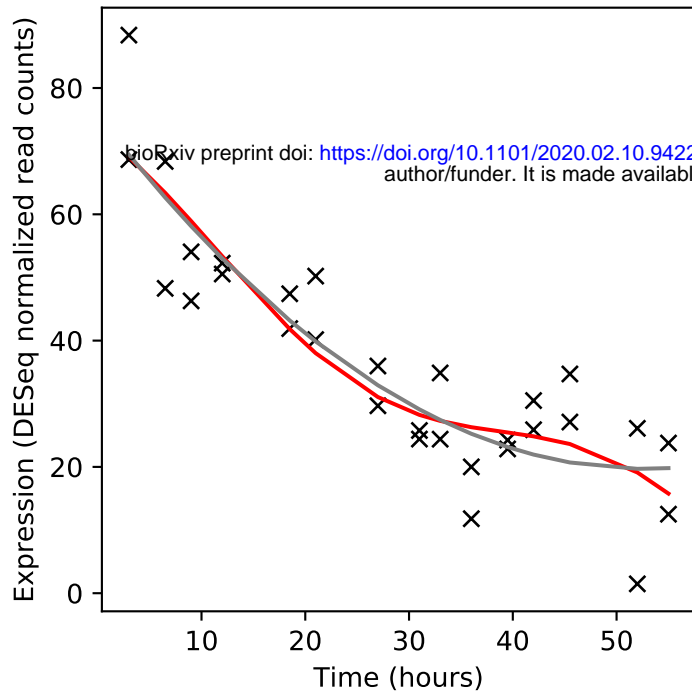
Rv2518c/ldtB



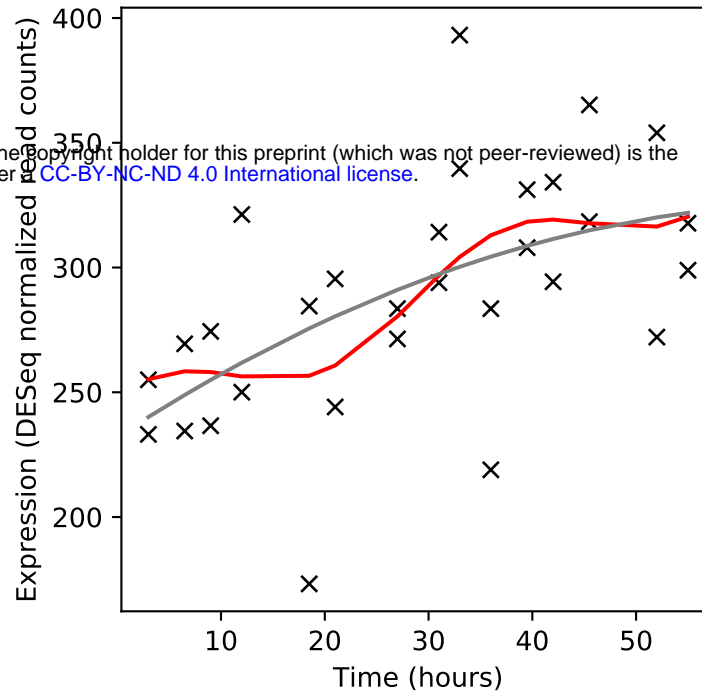
Rv2519/PE26



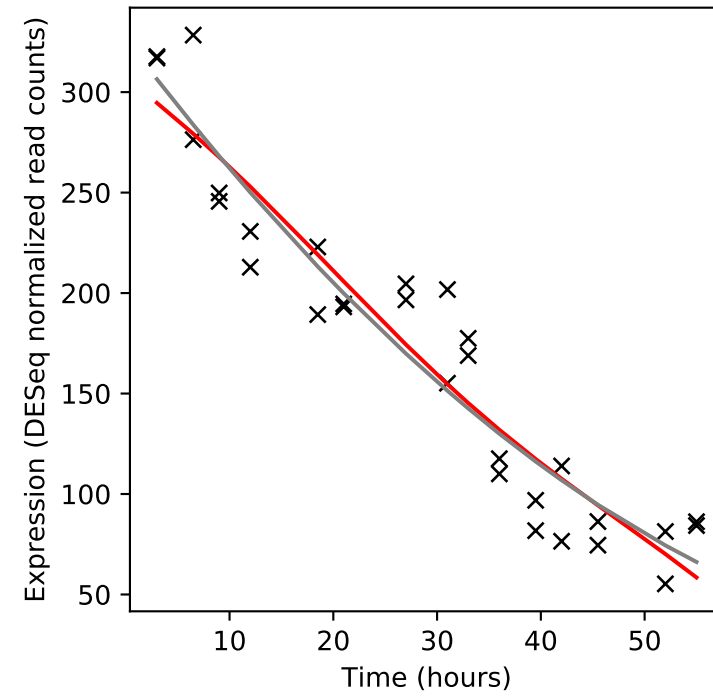
Rv2520c/-



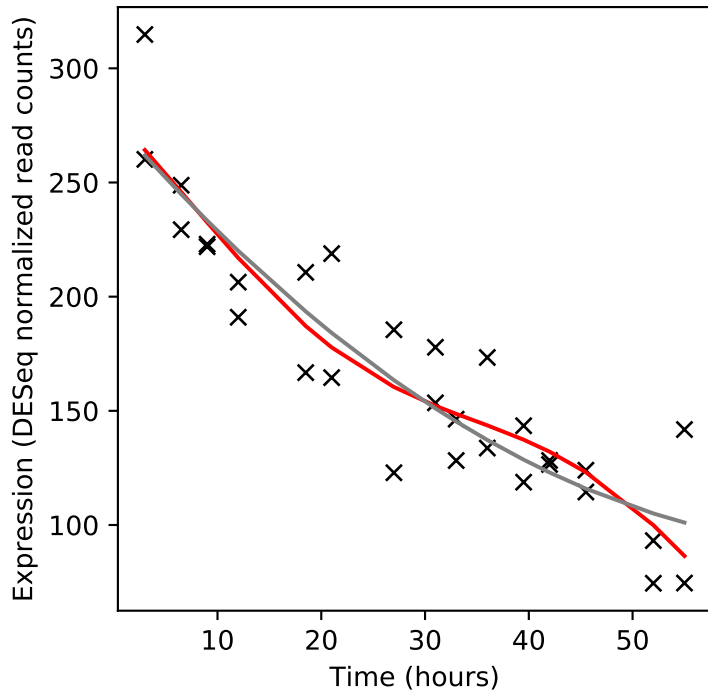
Rv2521/bcp



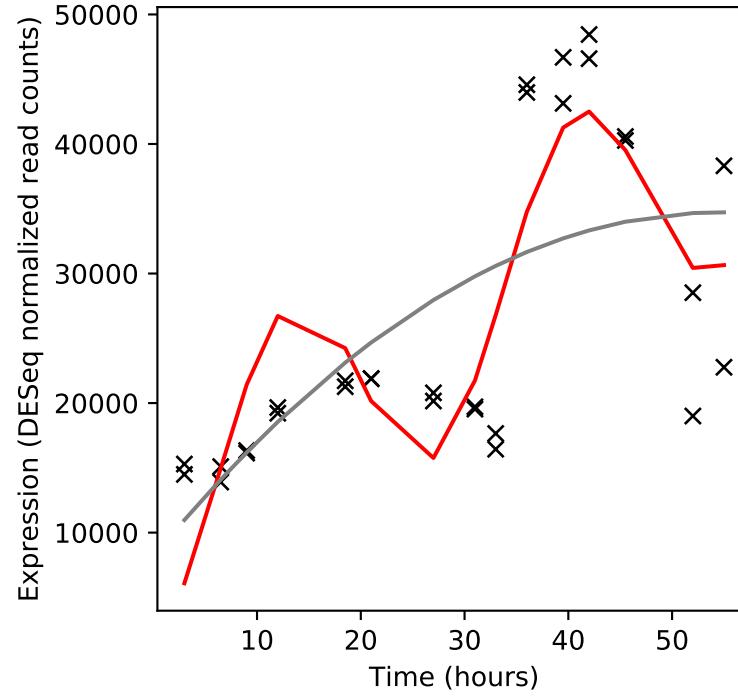
Rv2522c/-



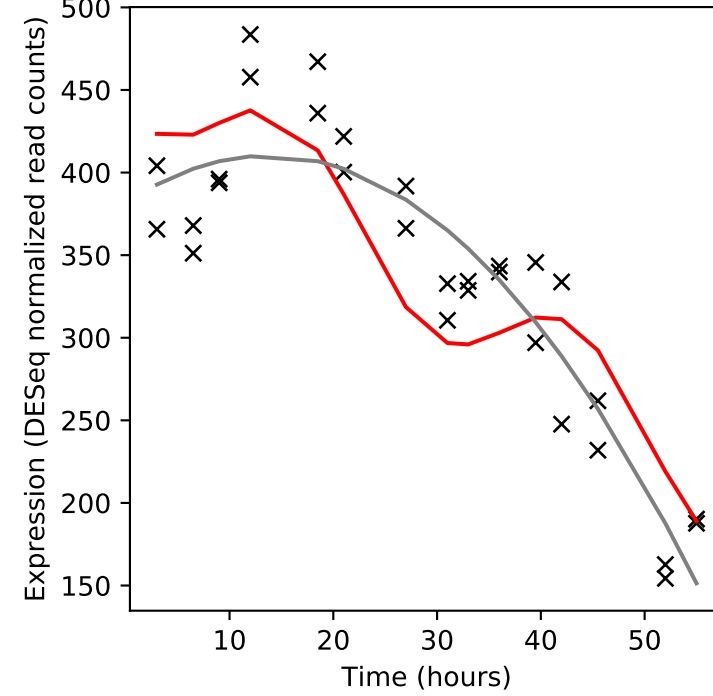
Rv2523c/acpS



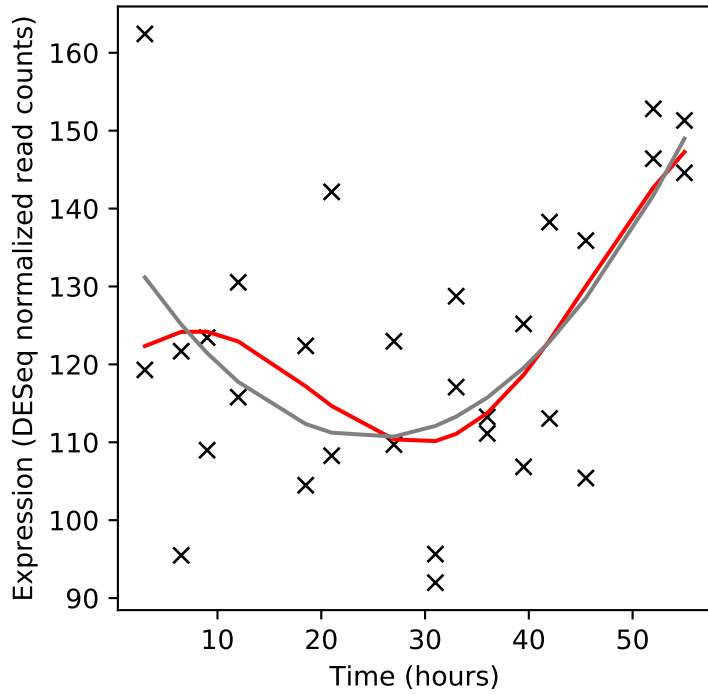
Rv2524c/fas



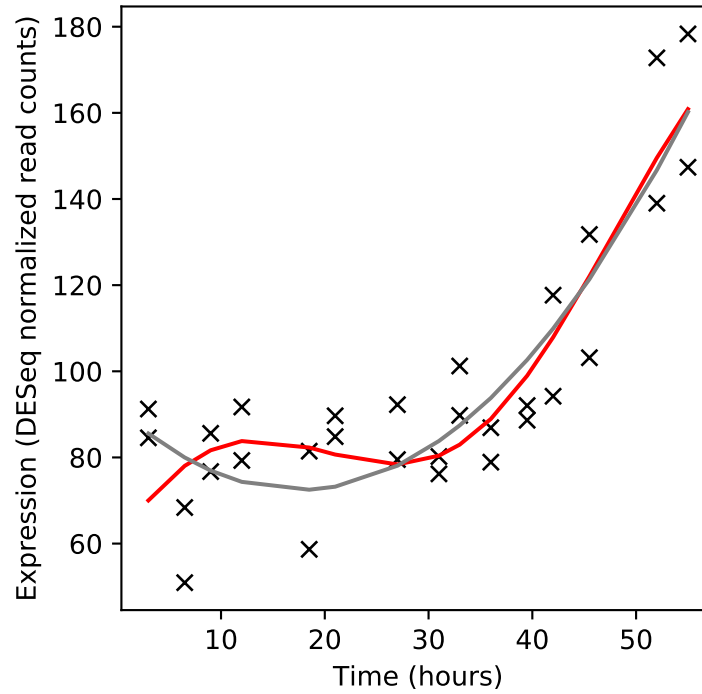
Rv2525c/-



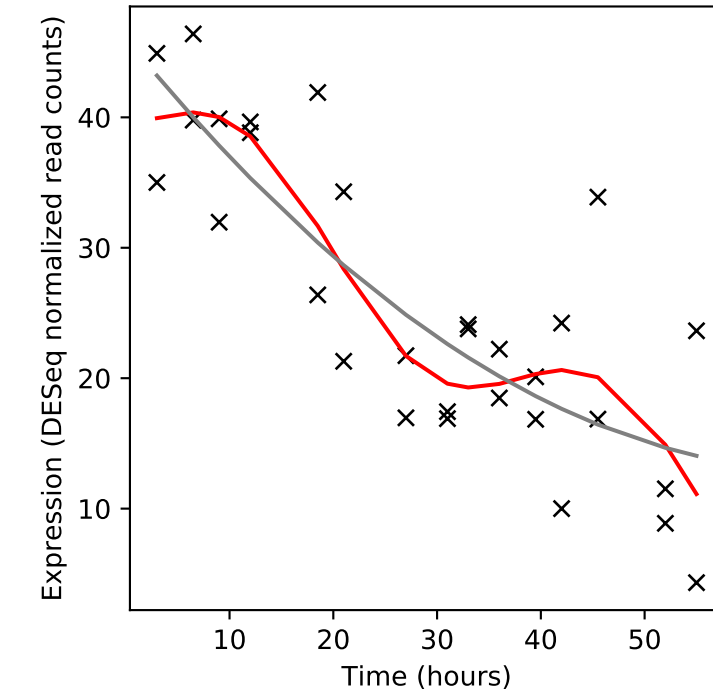
Rv2526/vapB17



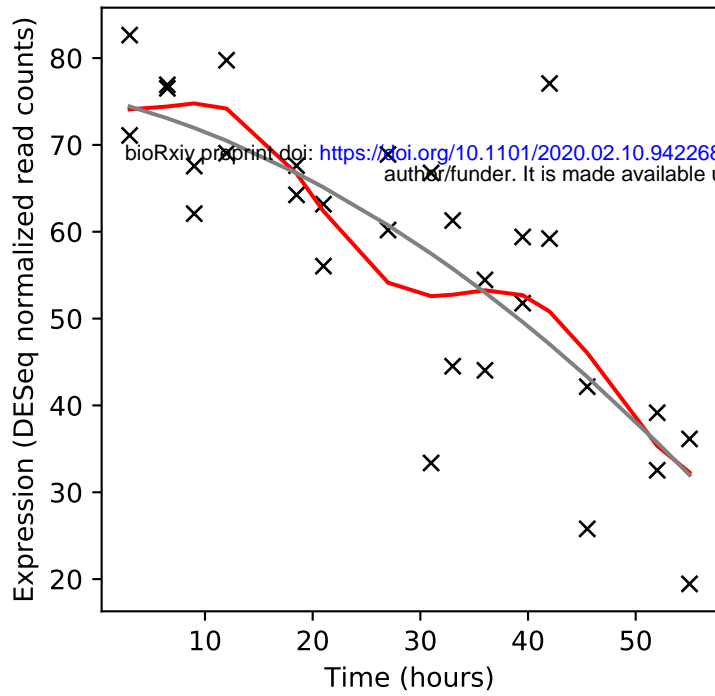
Rv2527/vapC17



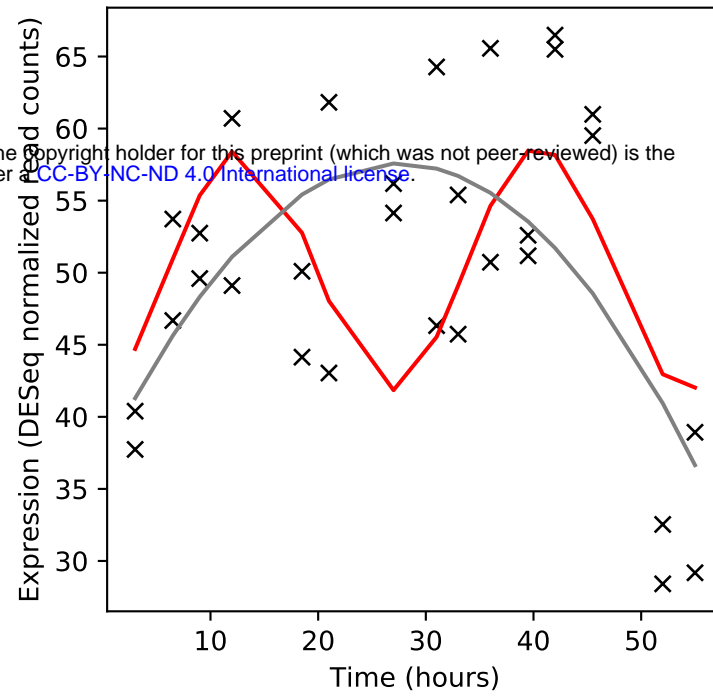
Rv2528c/mrr



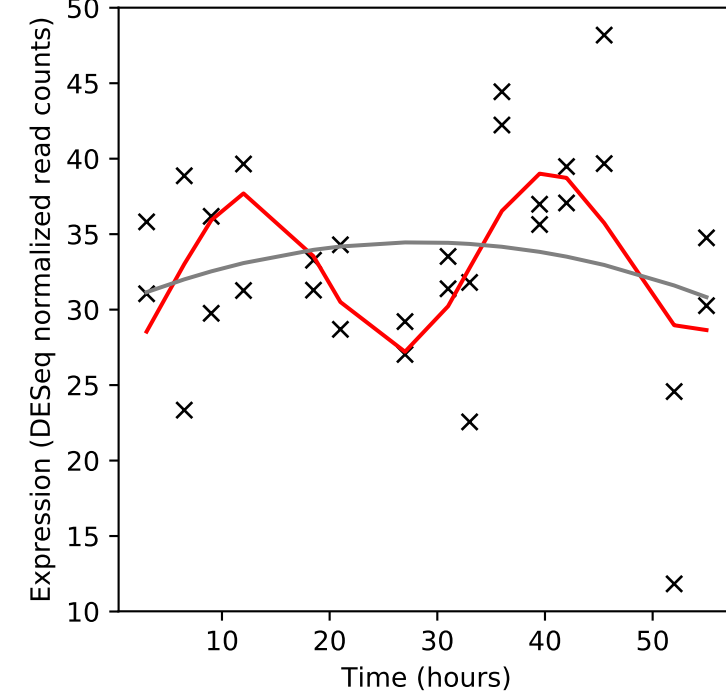
Rv2529/-



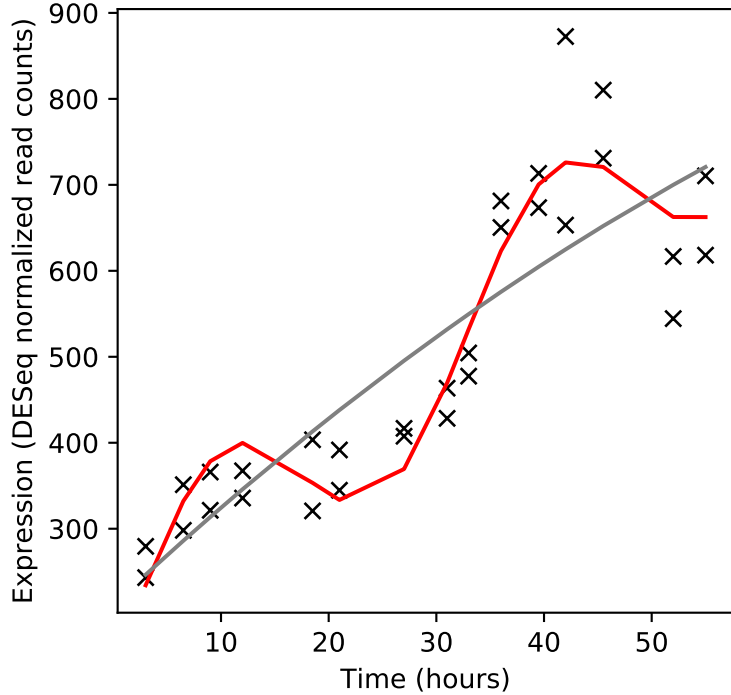
Rv2530c/vapC39



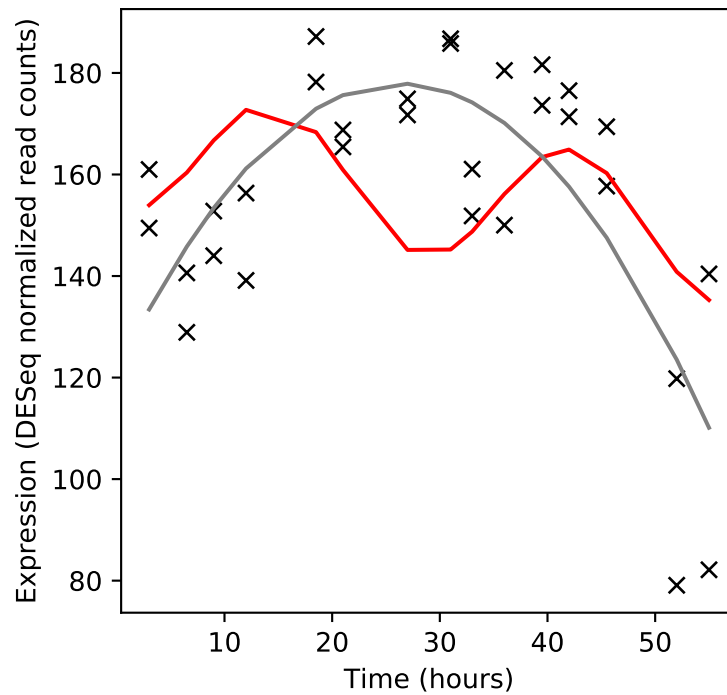
Rv2530A/vapB39



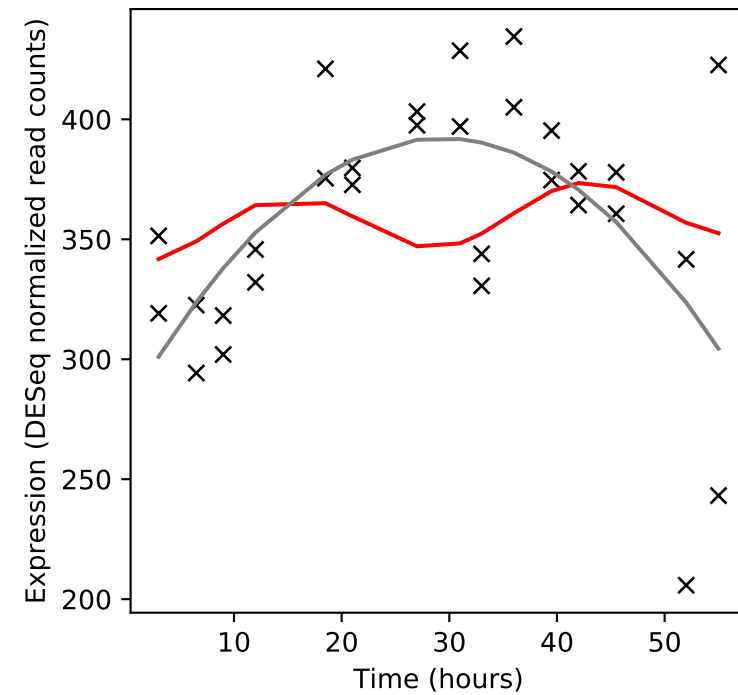
Rv2531c/-



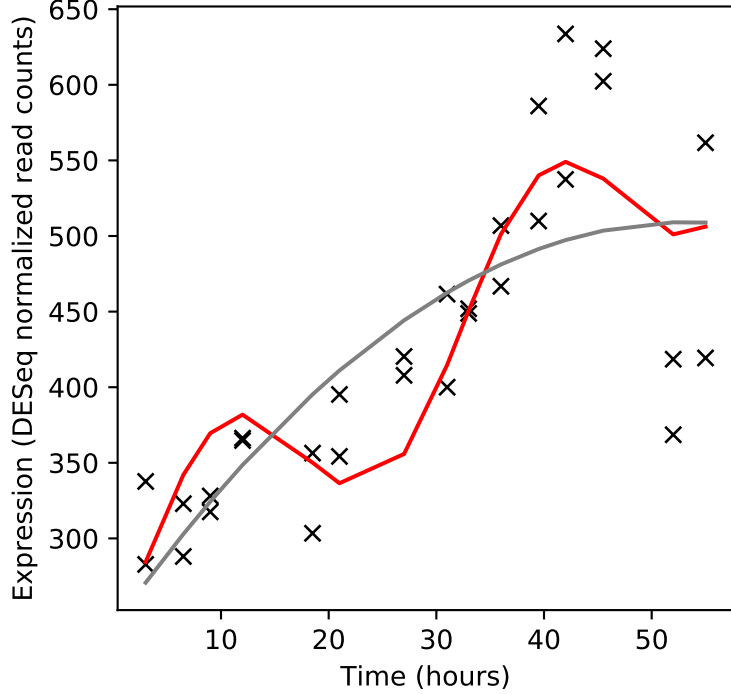
Rv2532c/-



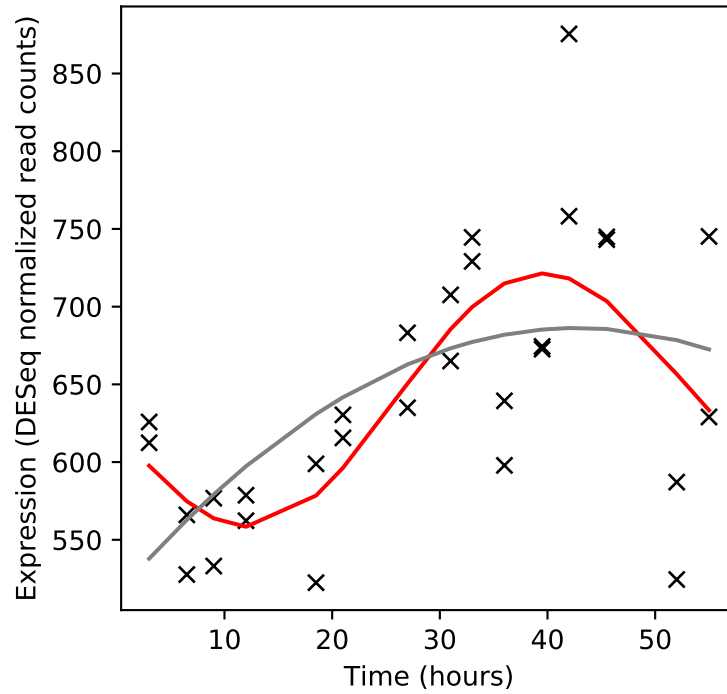
Rv2533c/nusB



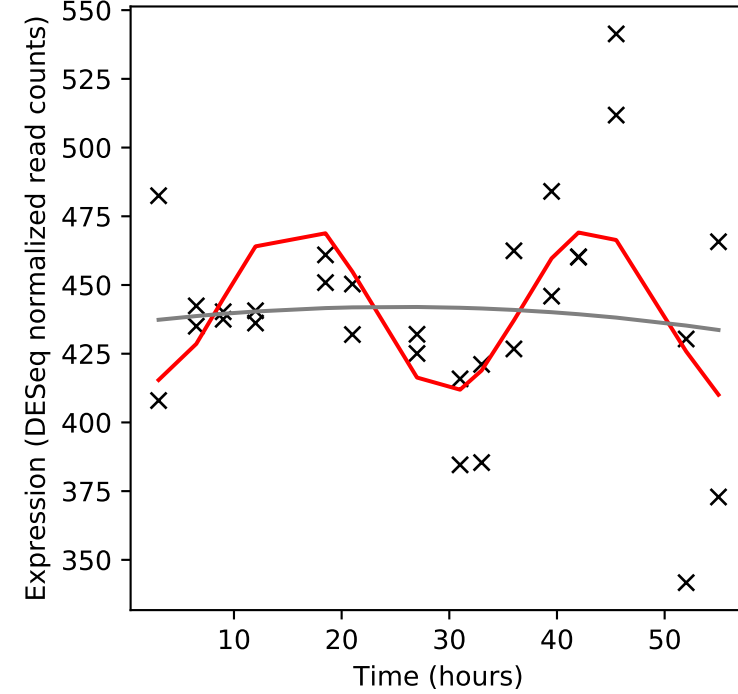
Rv2534c/efp



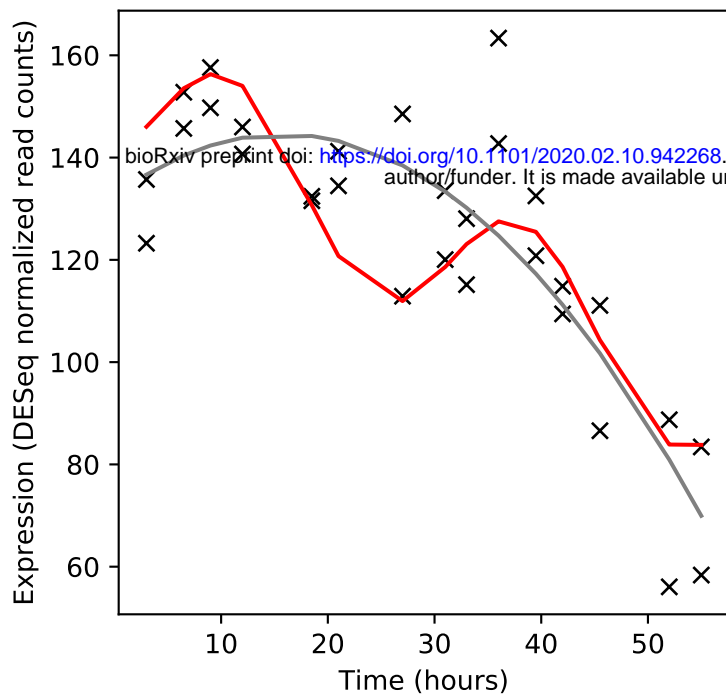
Rv2535c/pepQ



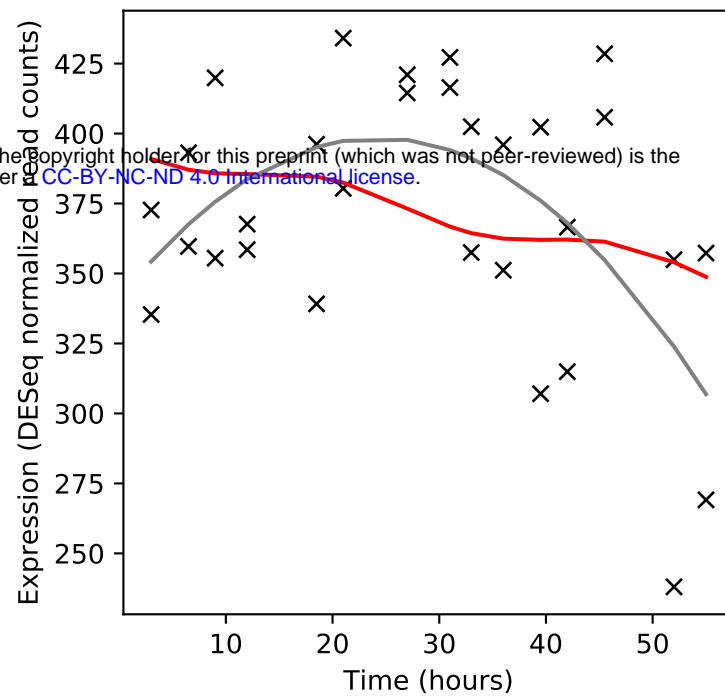
Rv2536/-



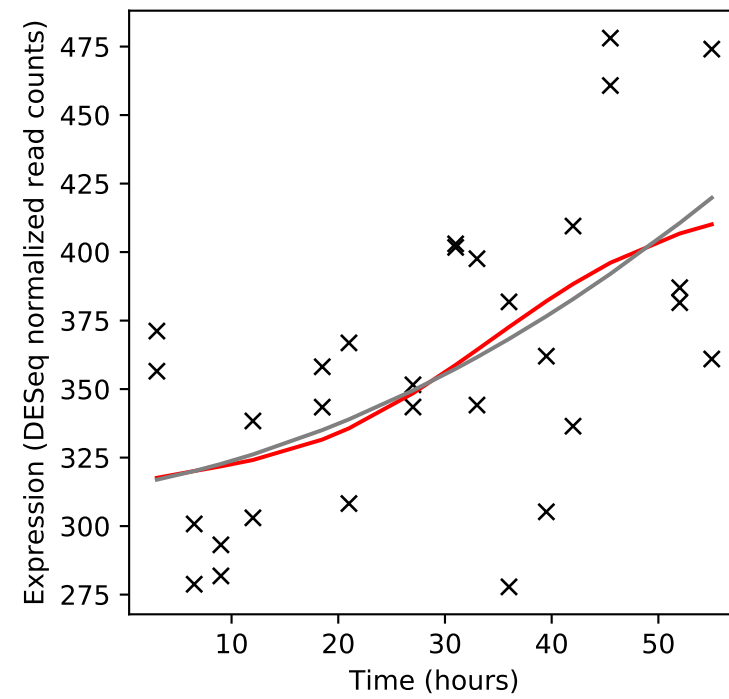
Rv2537c/aroD



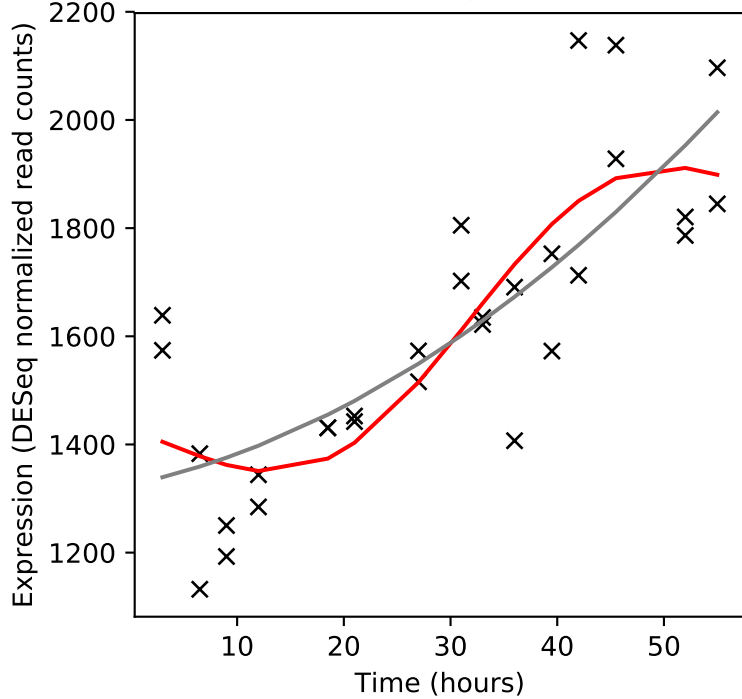
Rv2538c/aroB



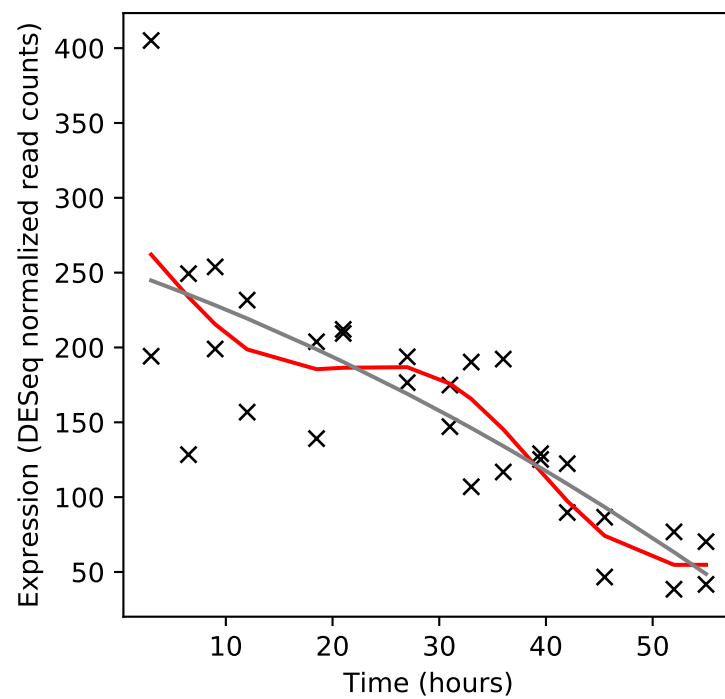
Rv2539c/aroK



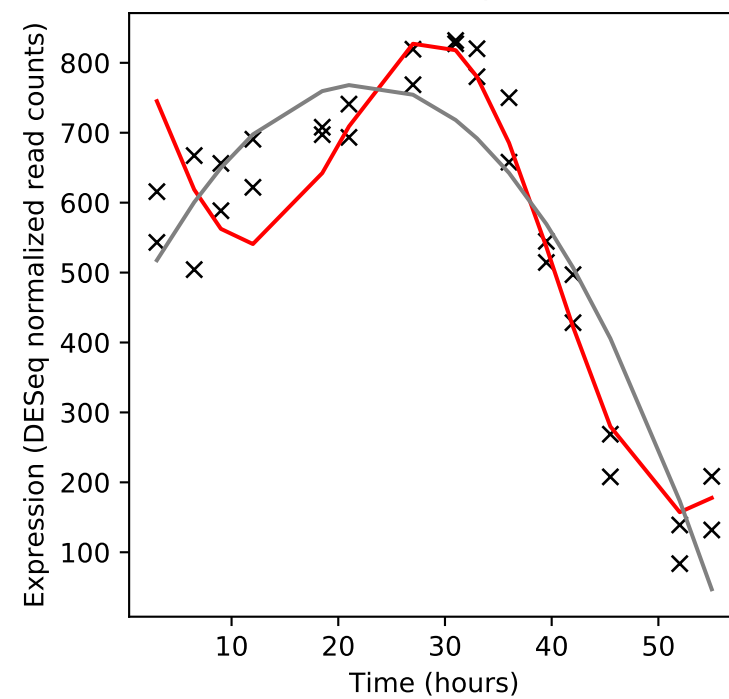
Rv2540c/aroF



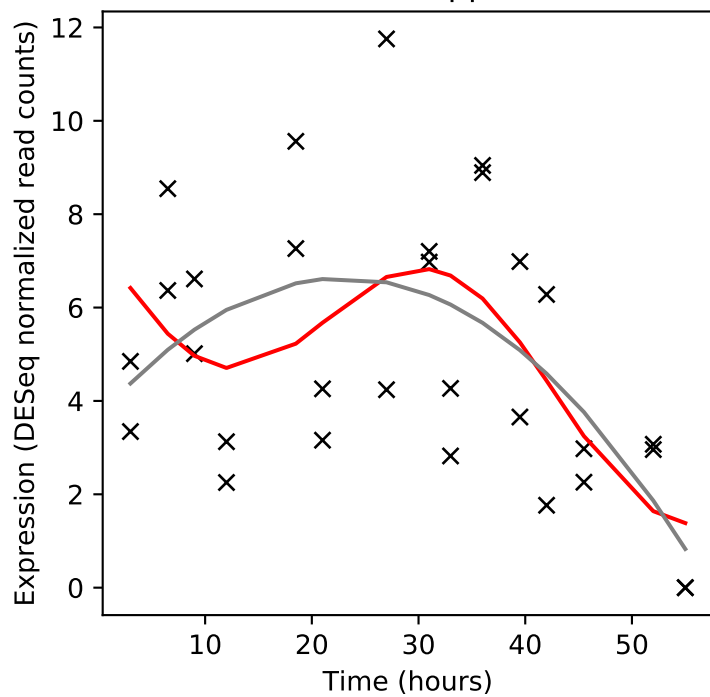
Rv2541/-



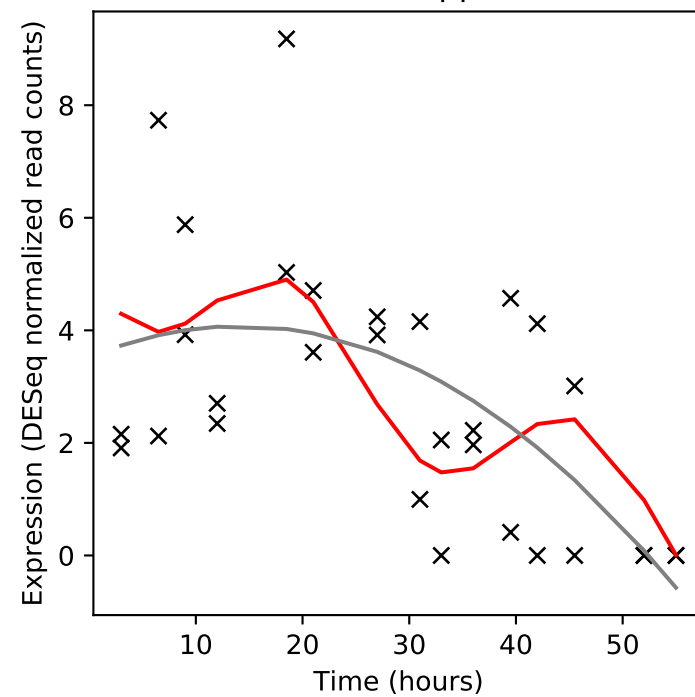
Rv2542/-



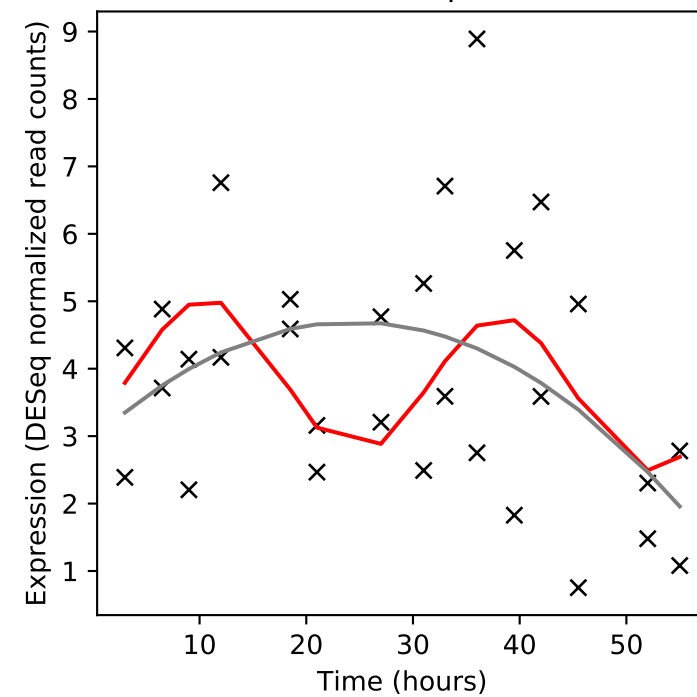
Rv2543/lppA



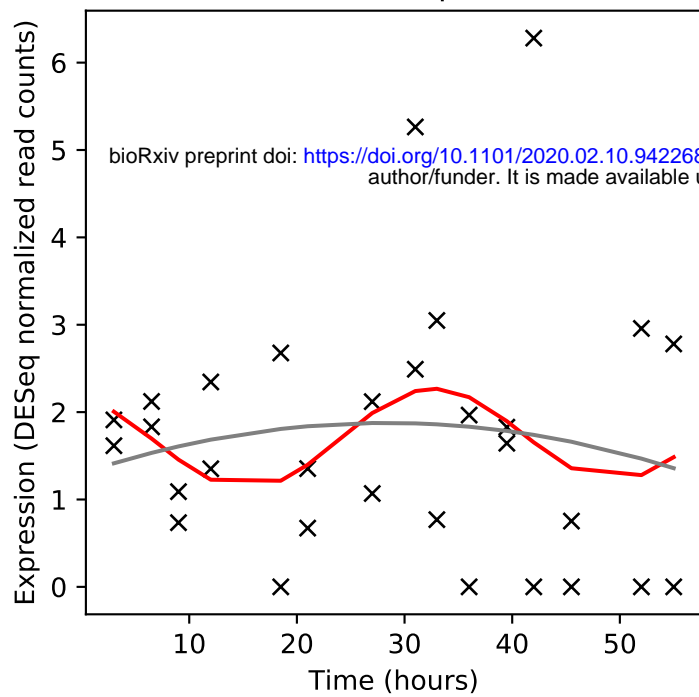
Rv2544/lppB



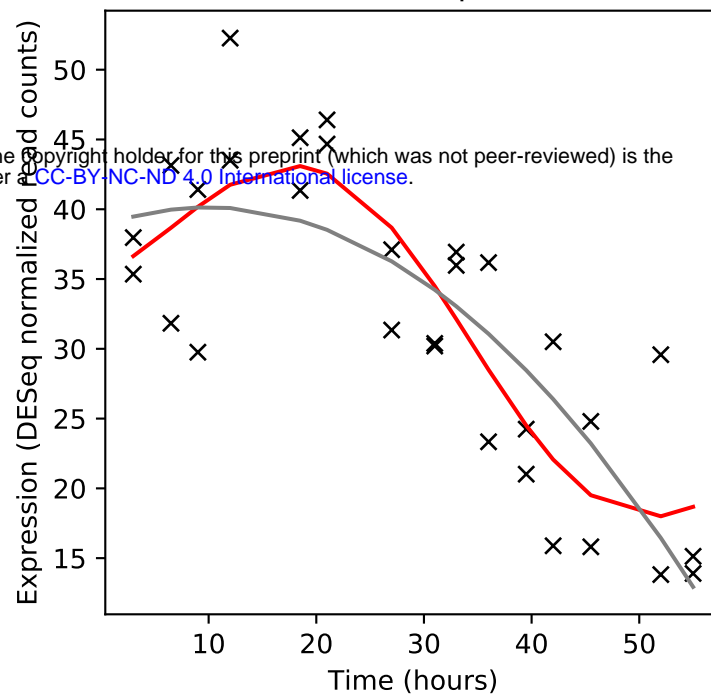
Rv2545/vapB18



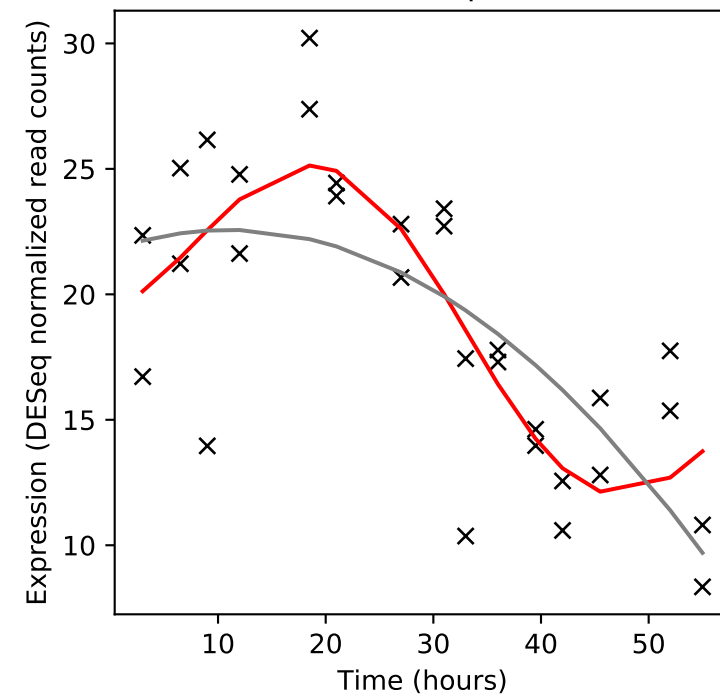
Rv2546/vapC18



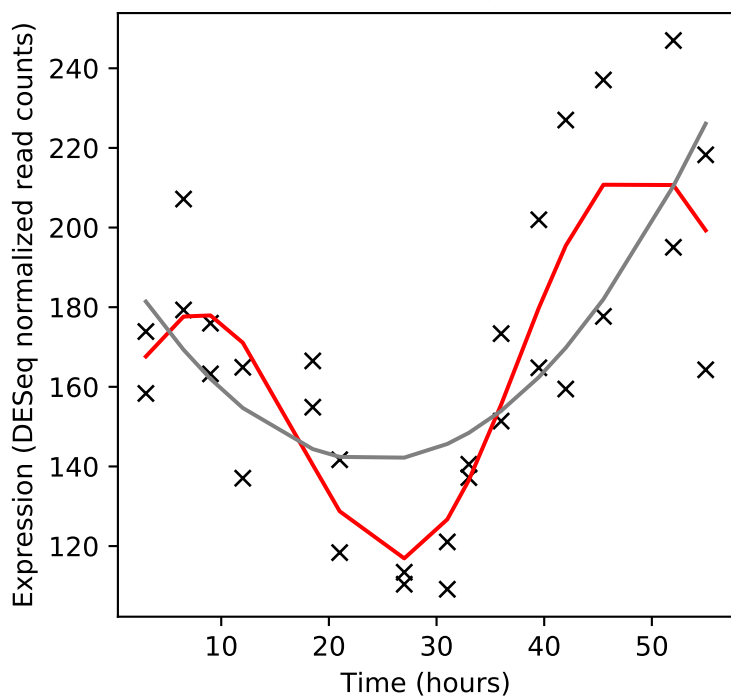
Rv2547/vapB19



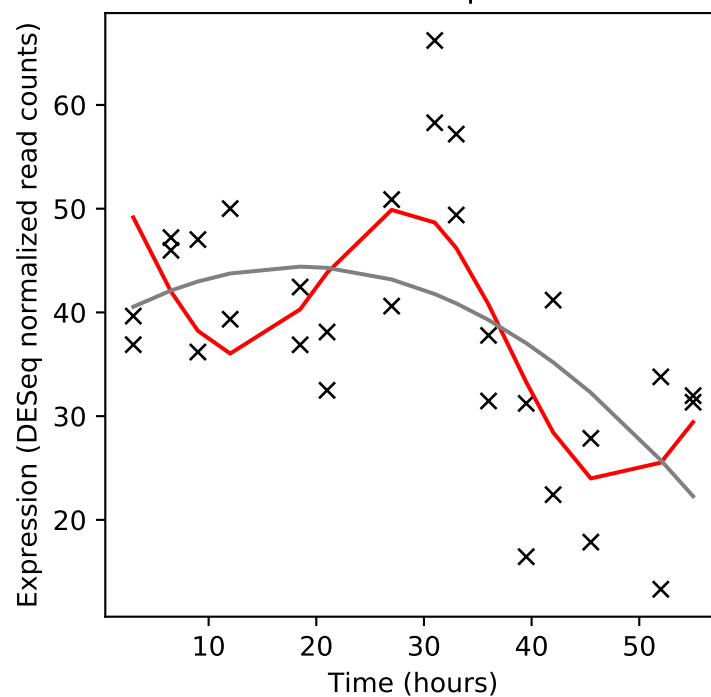
Rv2548/vapC19



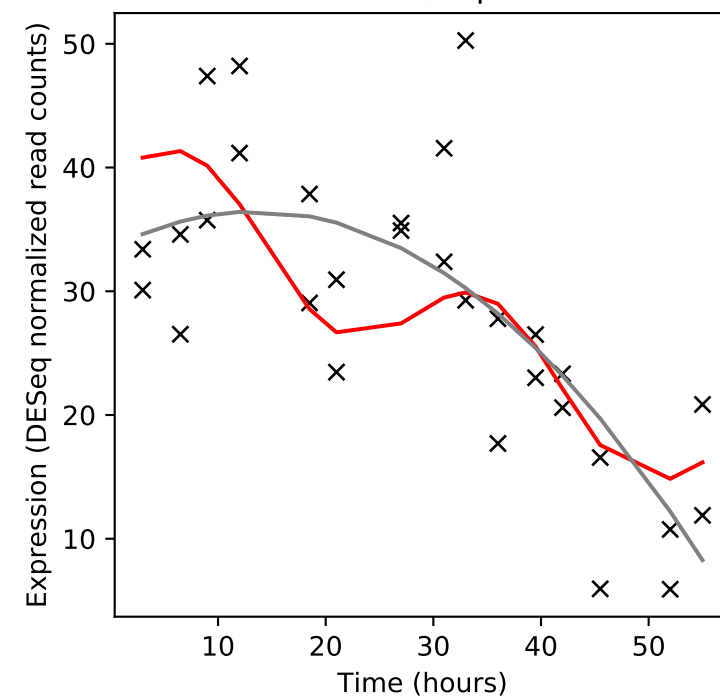
Rv2548A/-



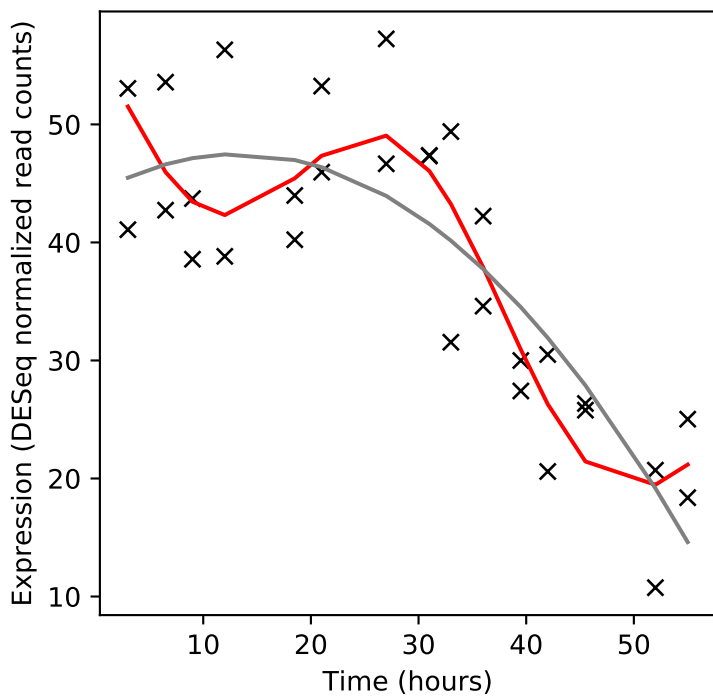
Rv2549c/vapC20



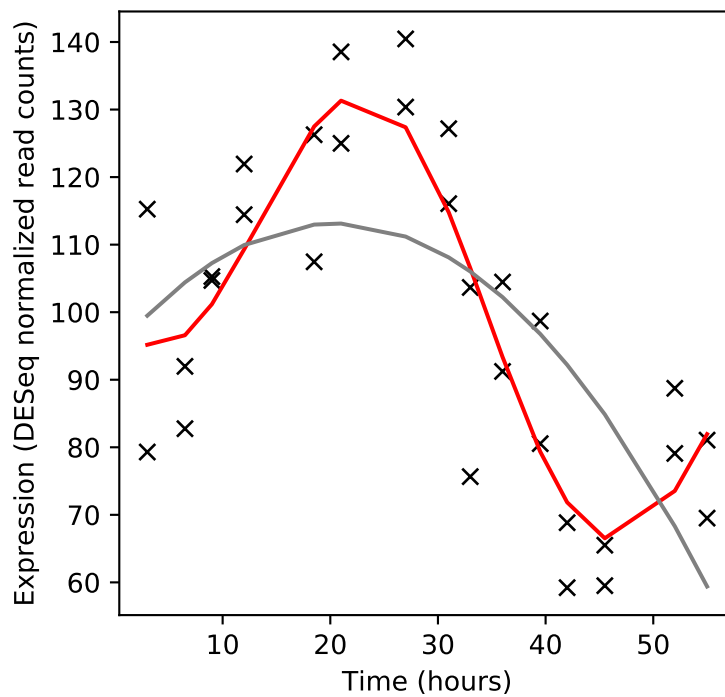
Rv2550c/vapB20



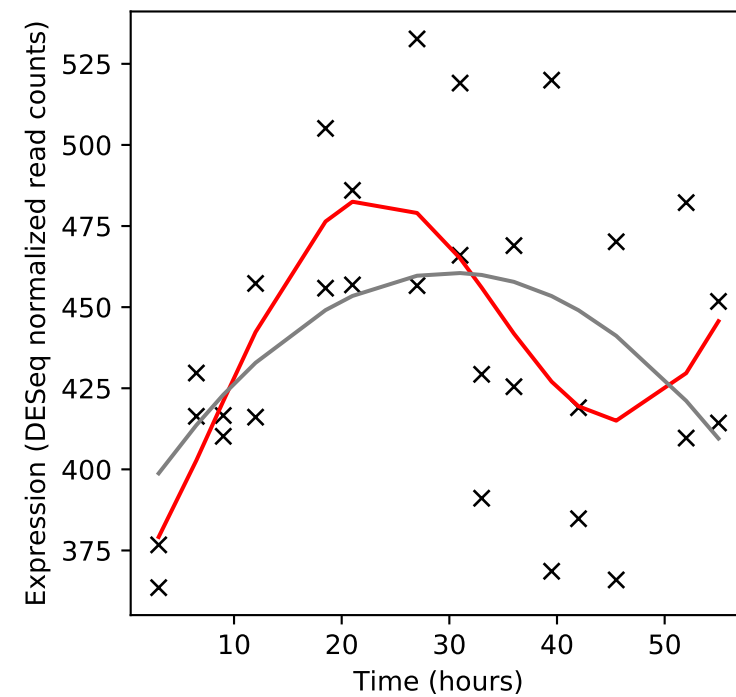
Rv2551c/-



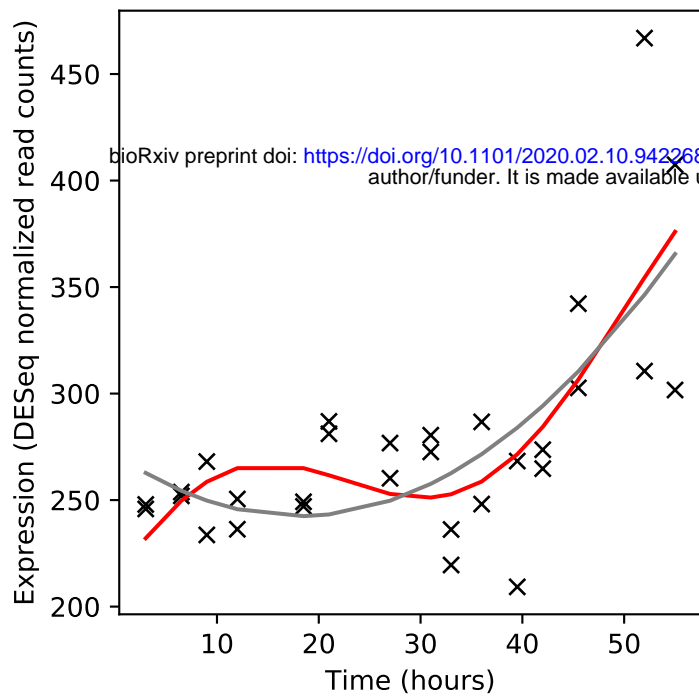
Rv2552c/aroE



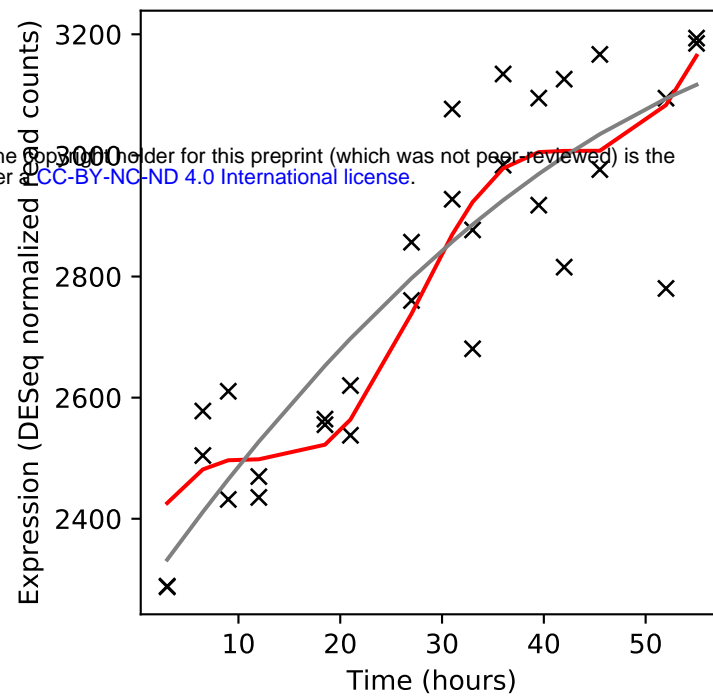
Rv2553c/-



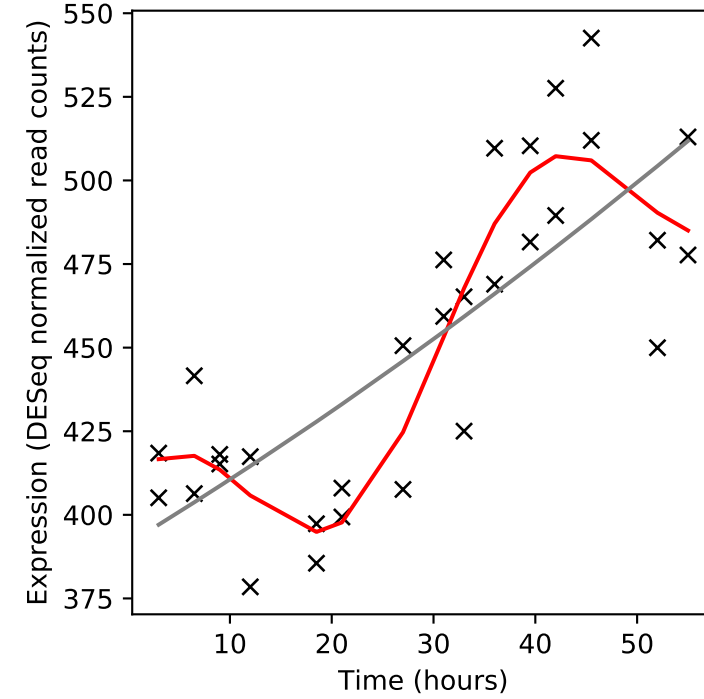
Rv2554c/-



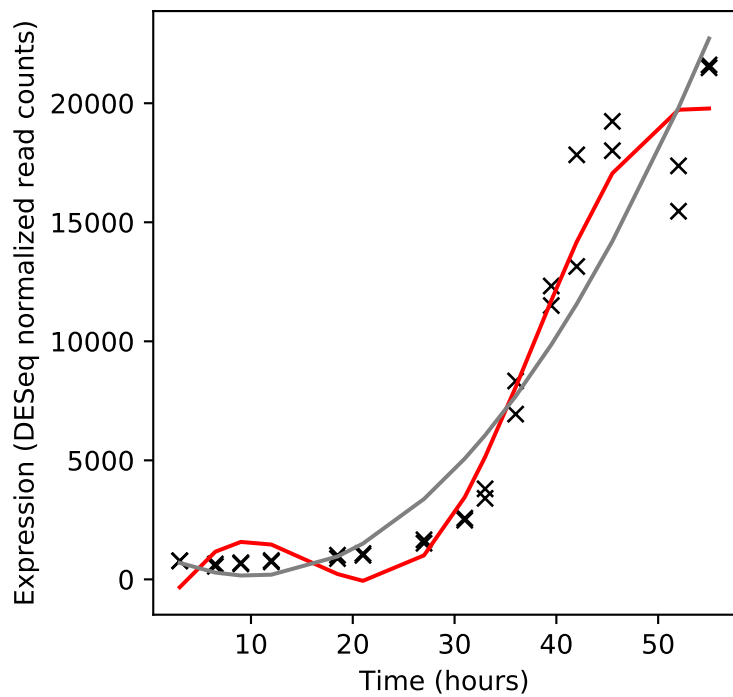
Rv2555c/alaS



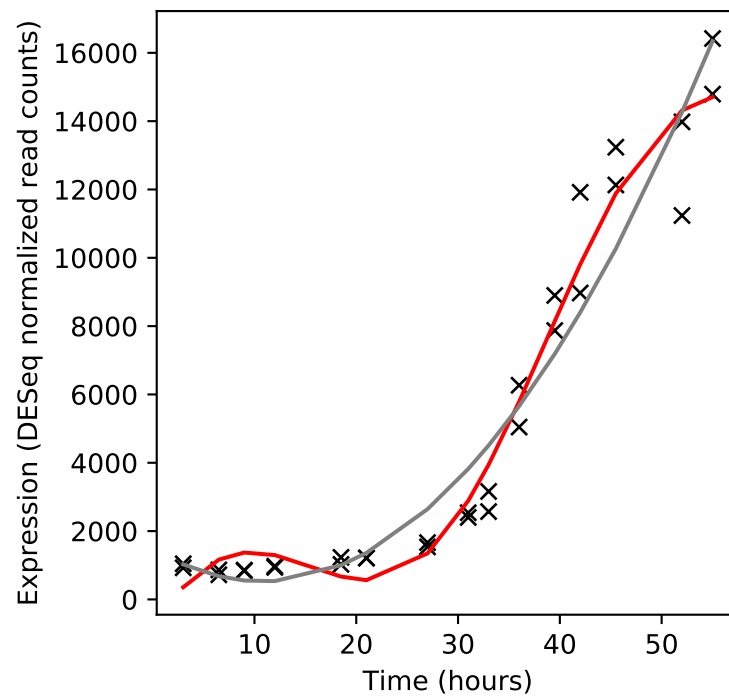
Rv2556c/-



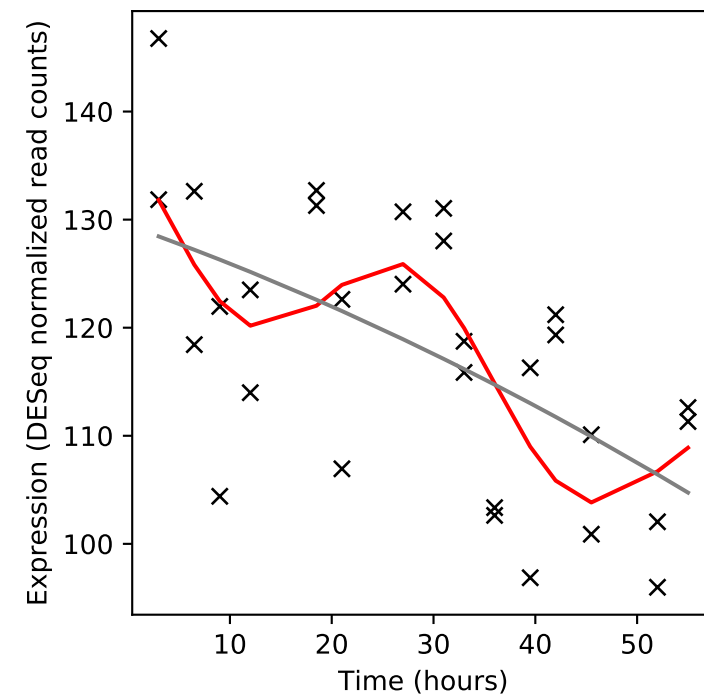
Rv2557/-



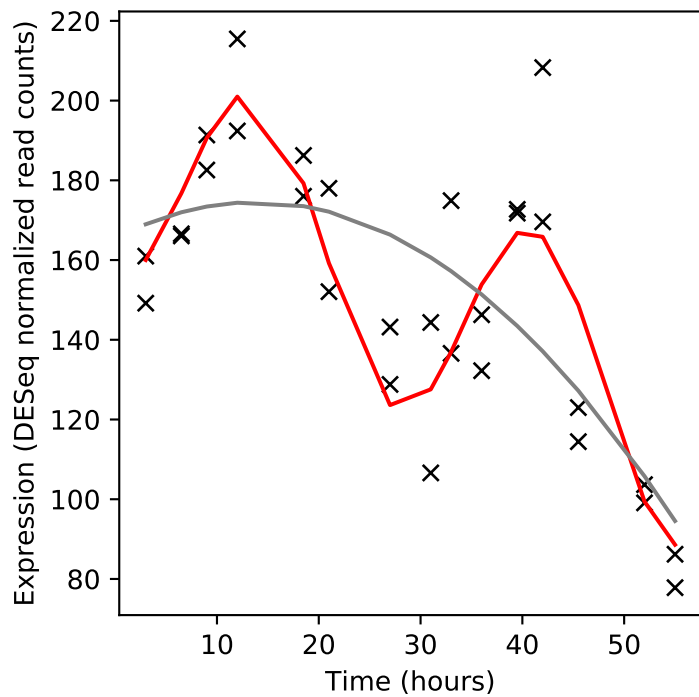
Rv2558/-



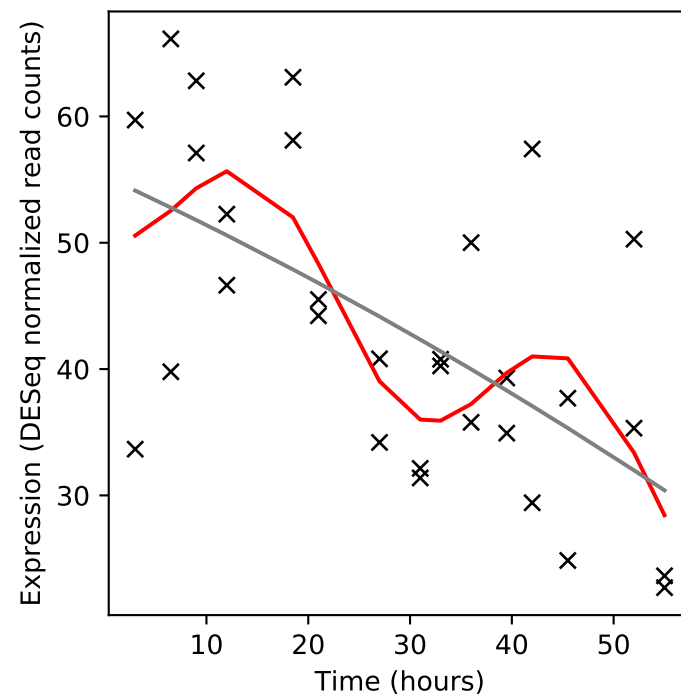
Rv2559c/-



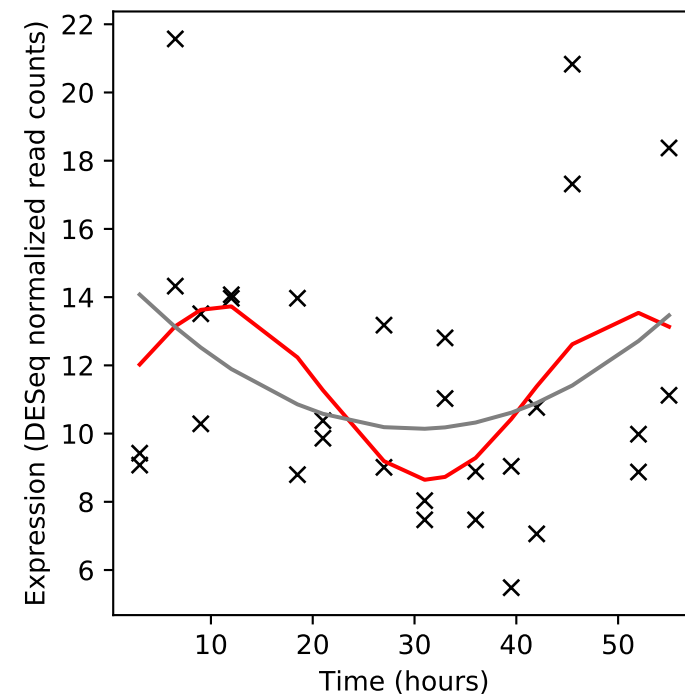
Rv2560/-



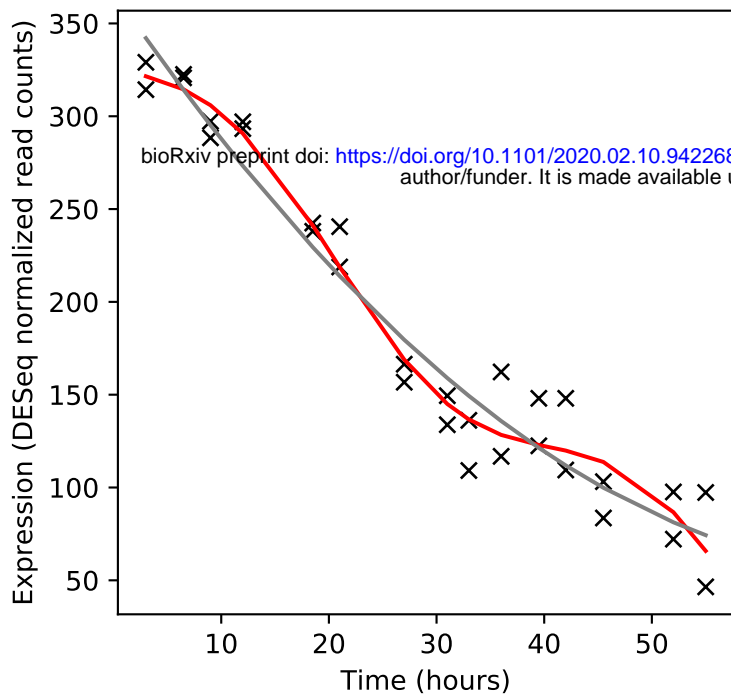
Rv2561/-



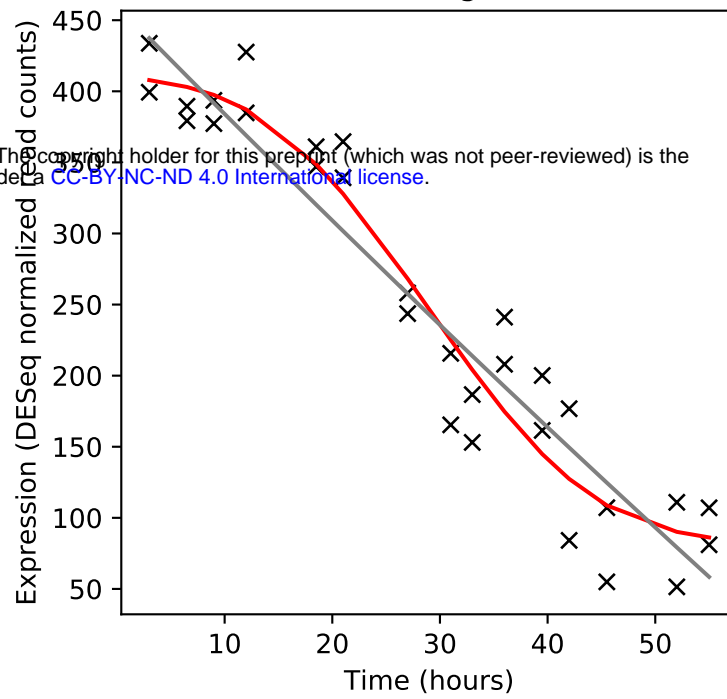
Rv2562/-



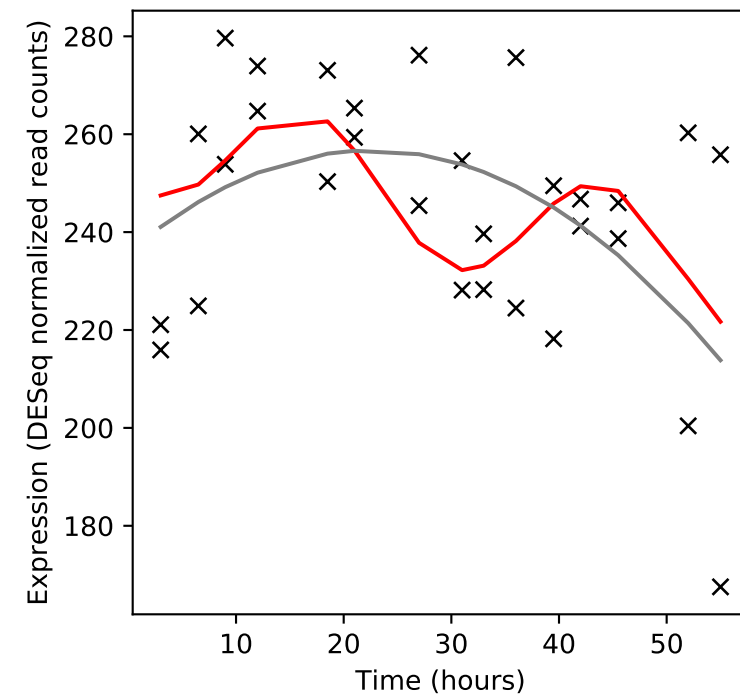
Rv2563/-



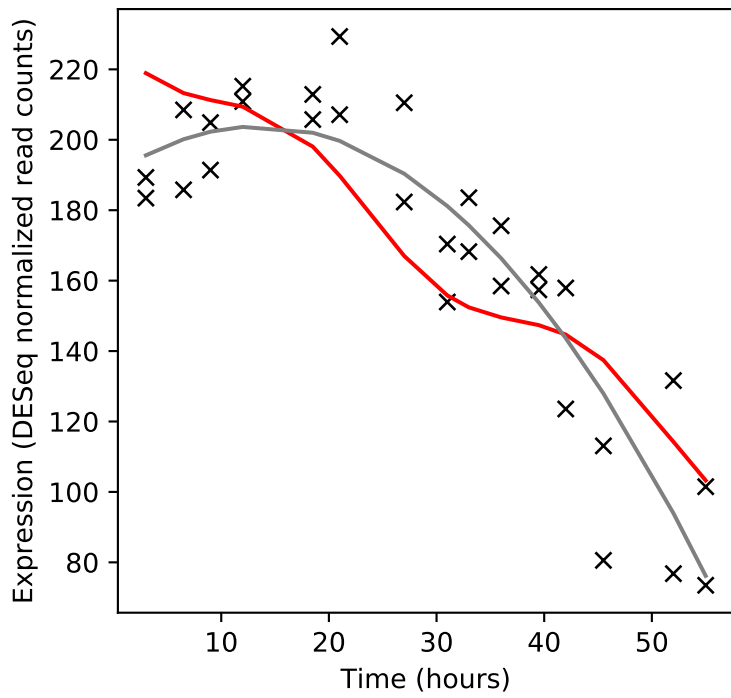
Rv2564/glnQ



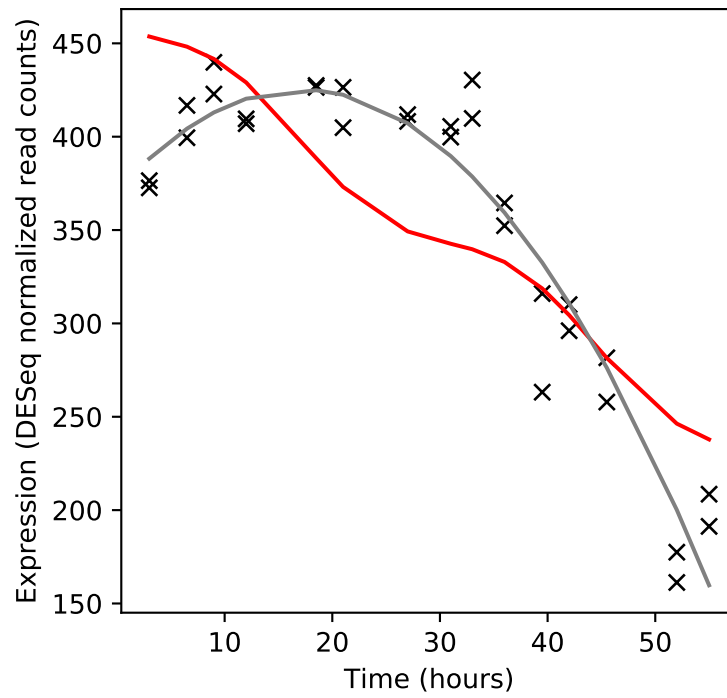
Rv2565/-



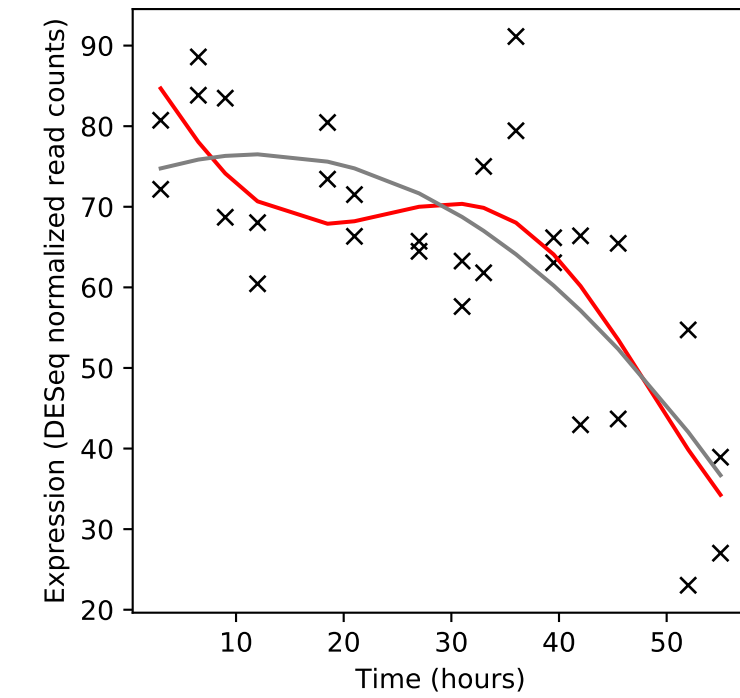
Rv2566/-



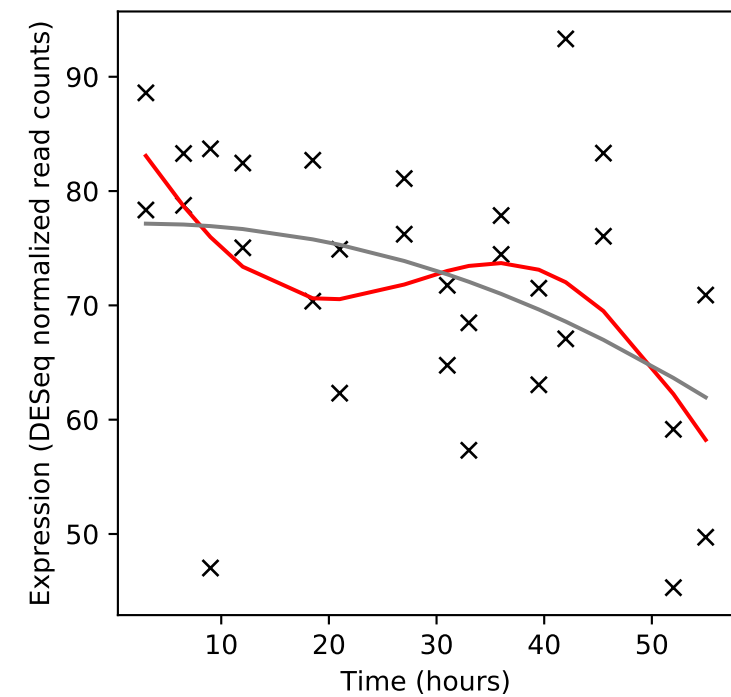
Rv2567/-



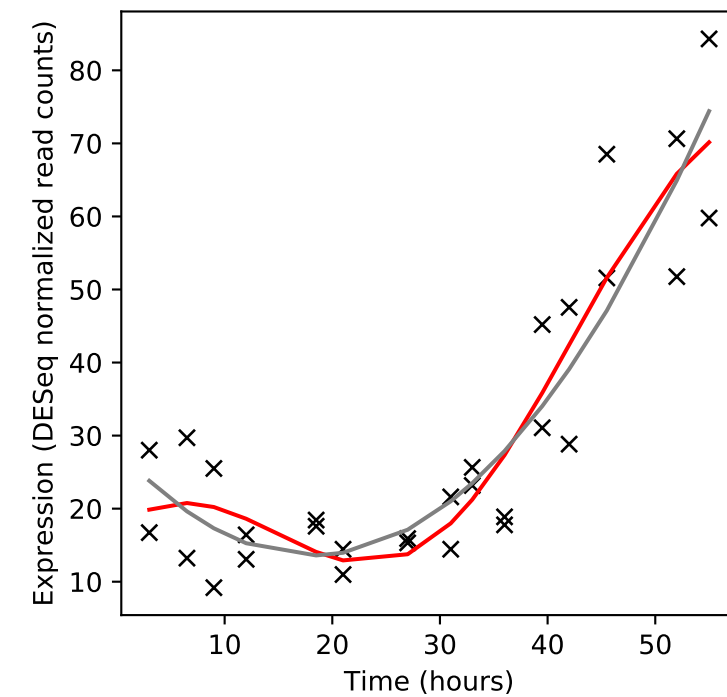
Rv2568c/-



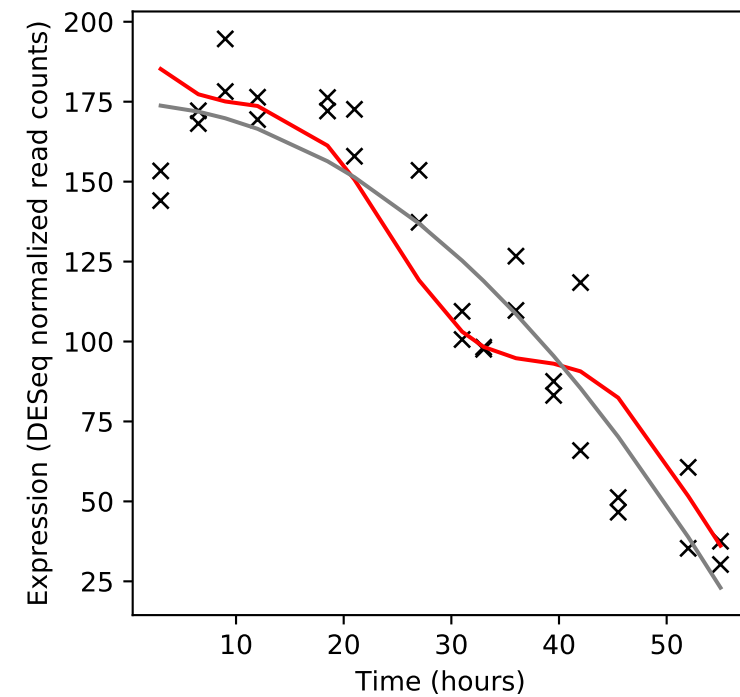
Rv2569c/-



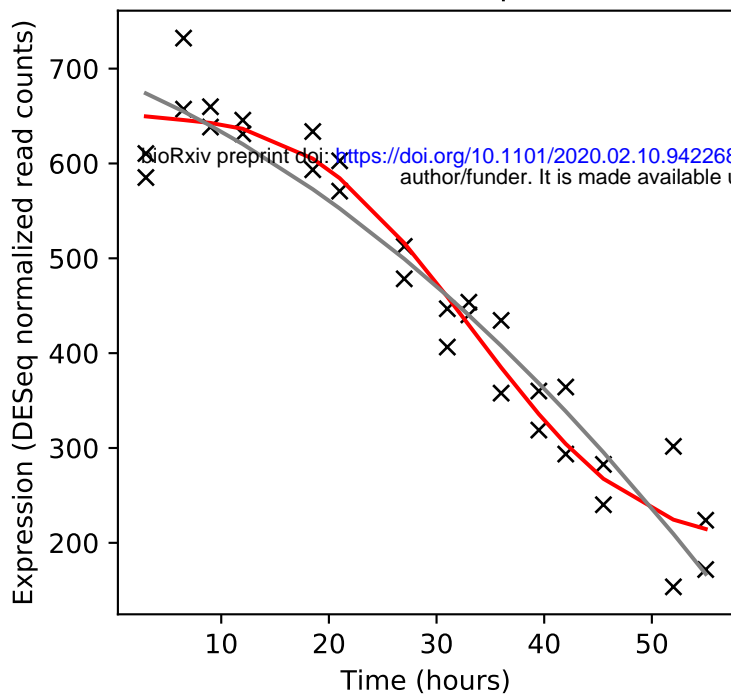
Rv2570/-



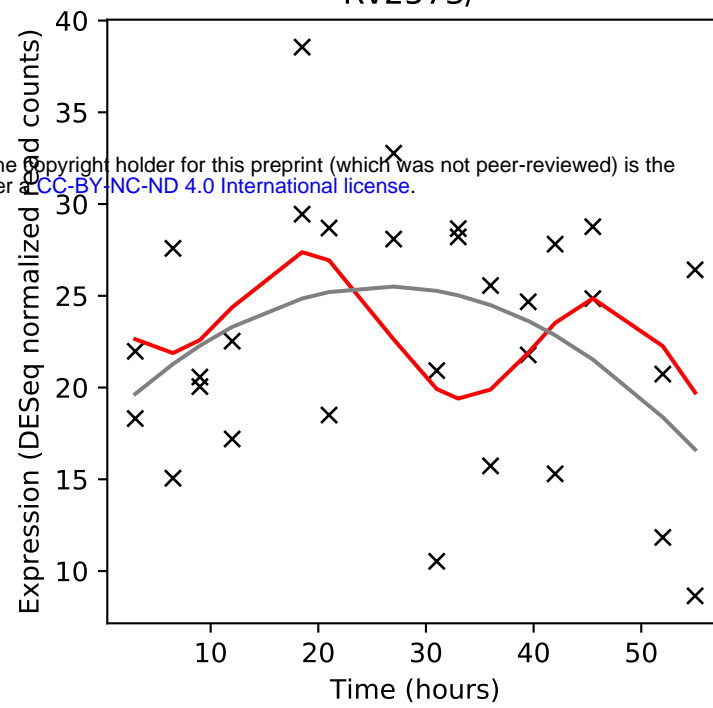
Rv2571c/-



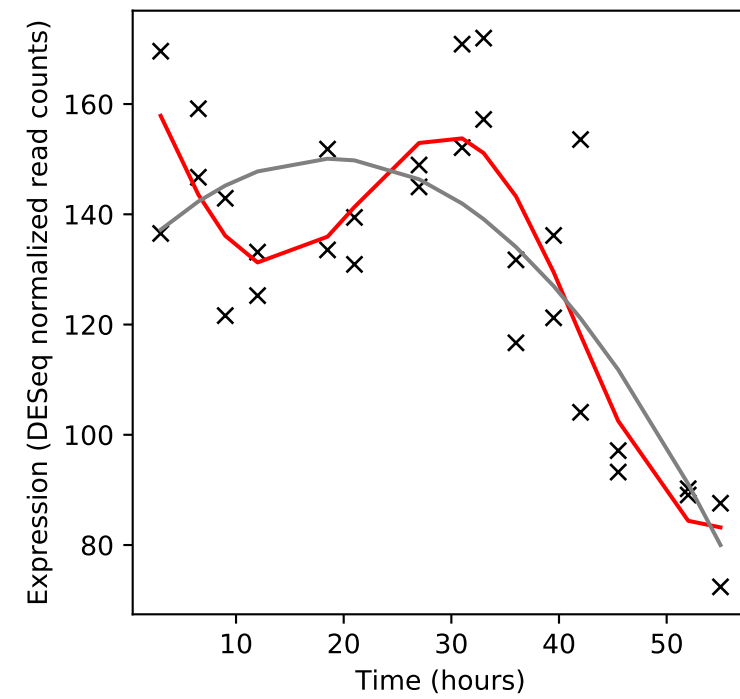
Rv2572c/aspS



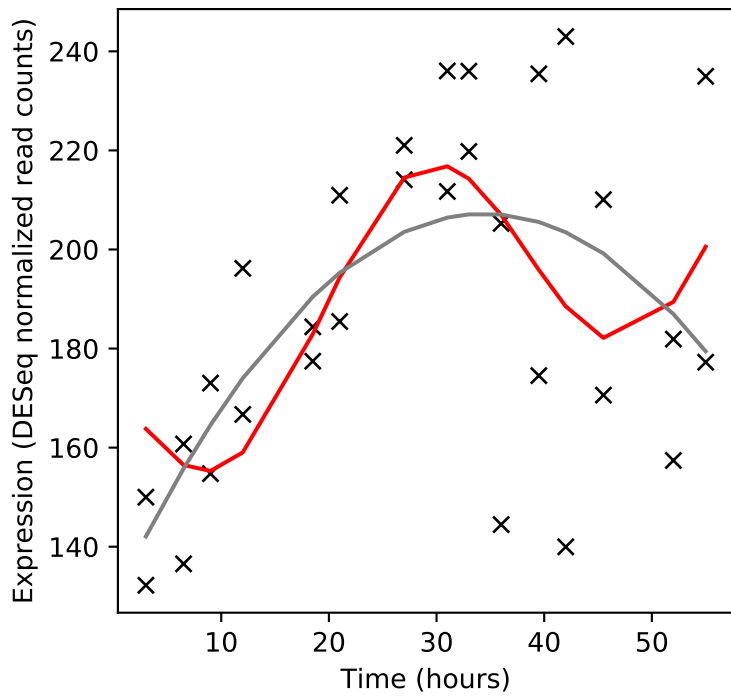
Rv2573/-



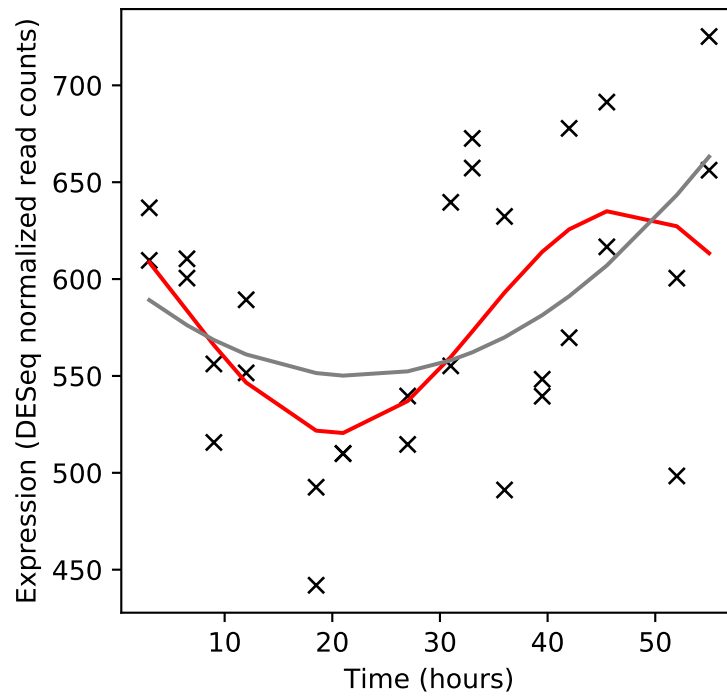
Rv2574/-



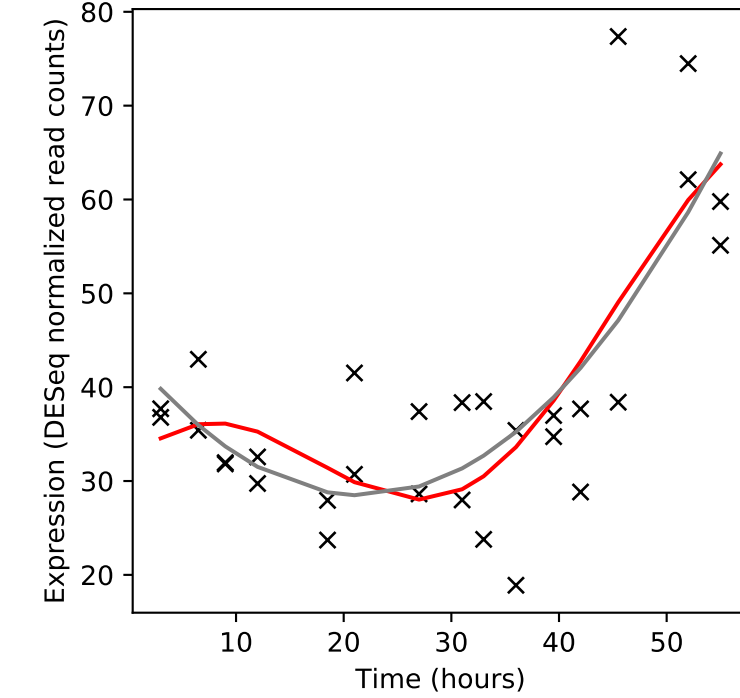
Rv2575/-



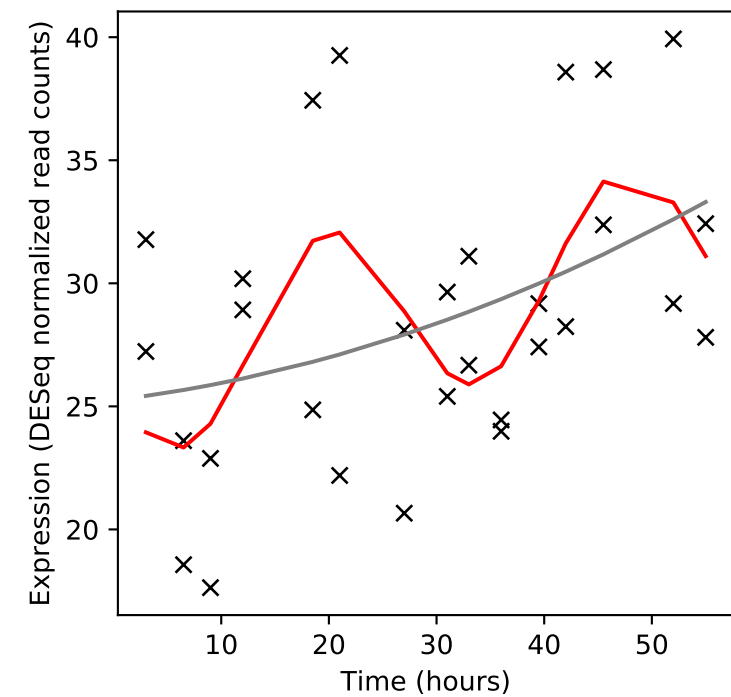
Rv2576c/-



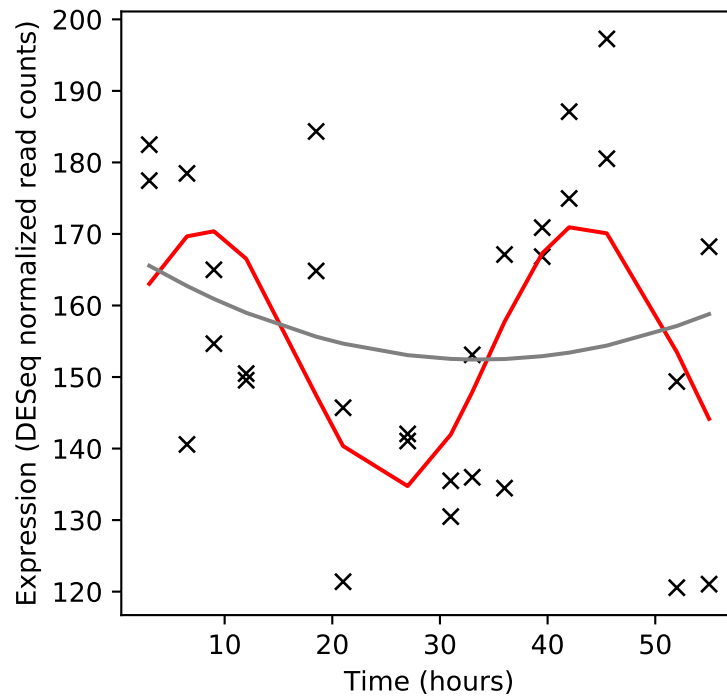
Rv2577/-



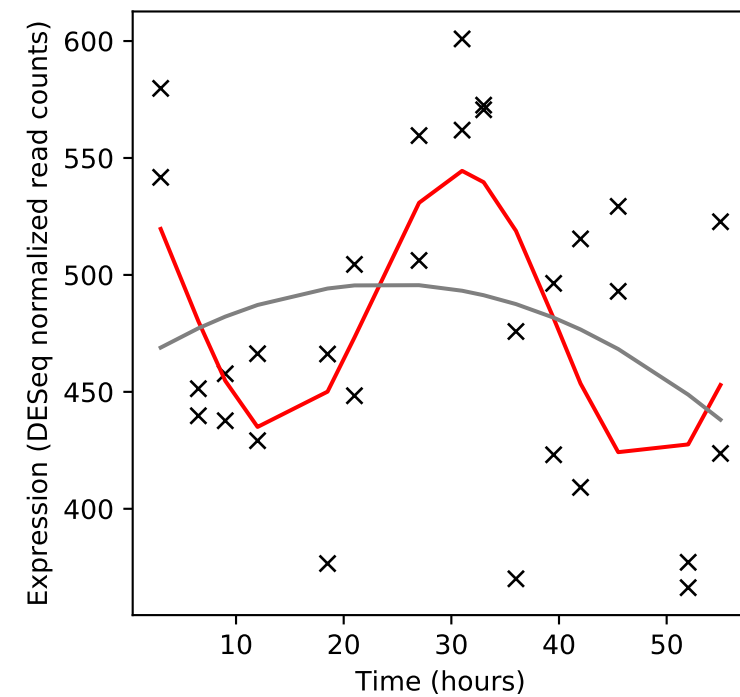
Rv2578c/-



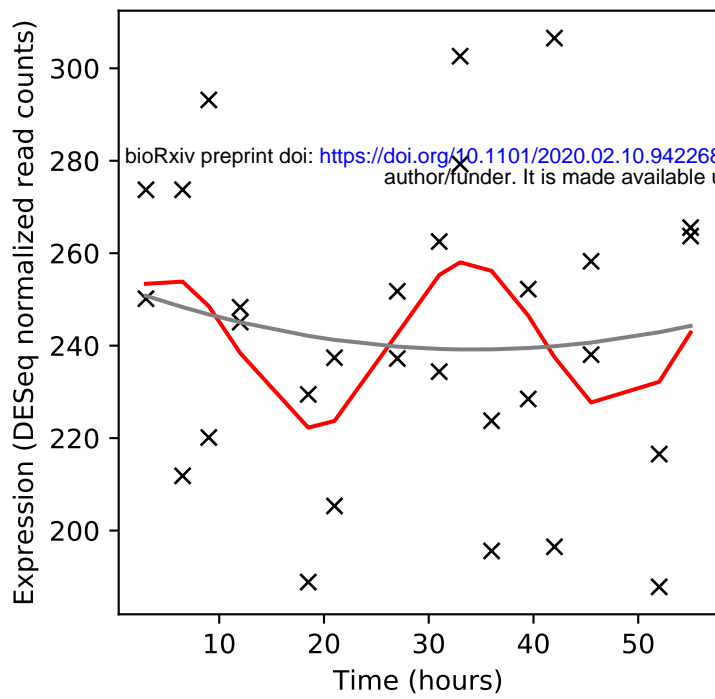
Rv2579/dhaA



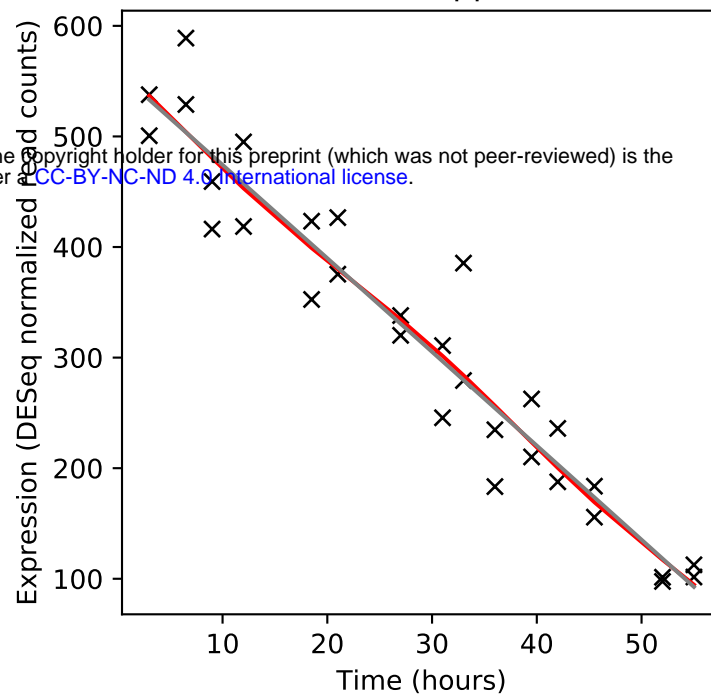
Rv2580c/hisS



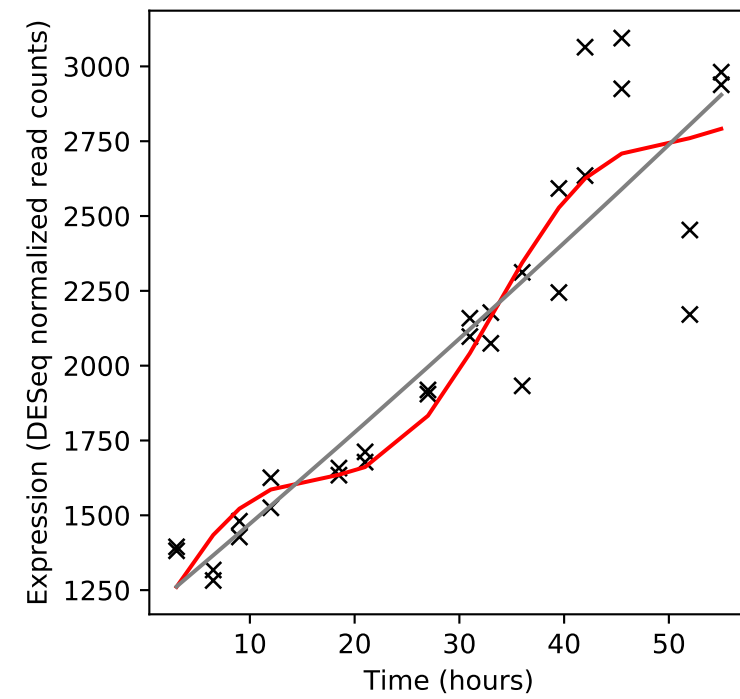
Rv2581c/-



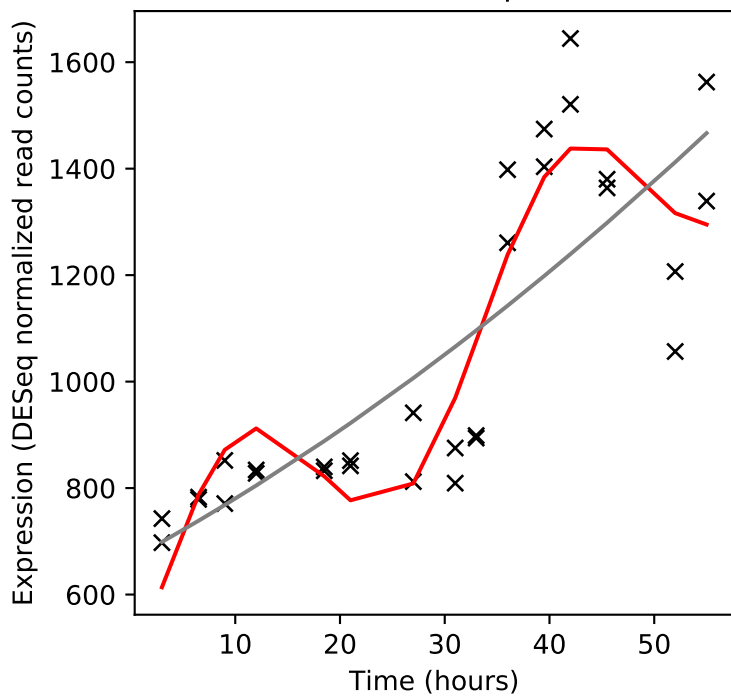
Rv2582/ppiB



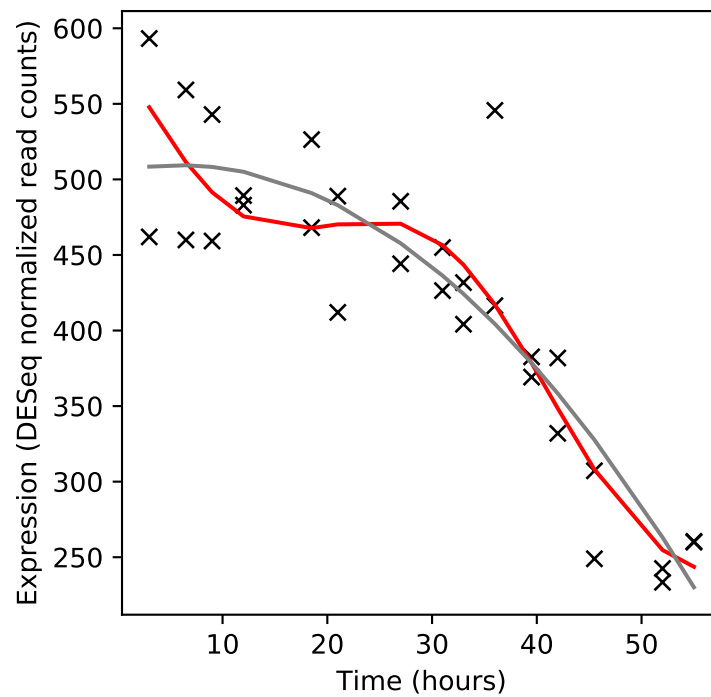
Rv2583c/relA



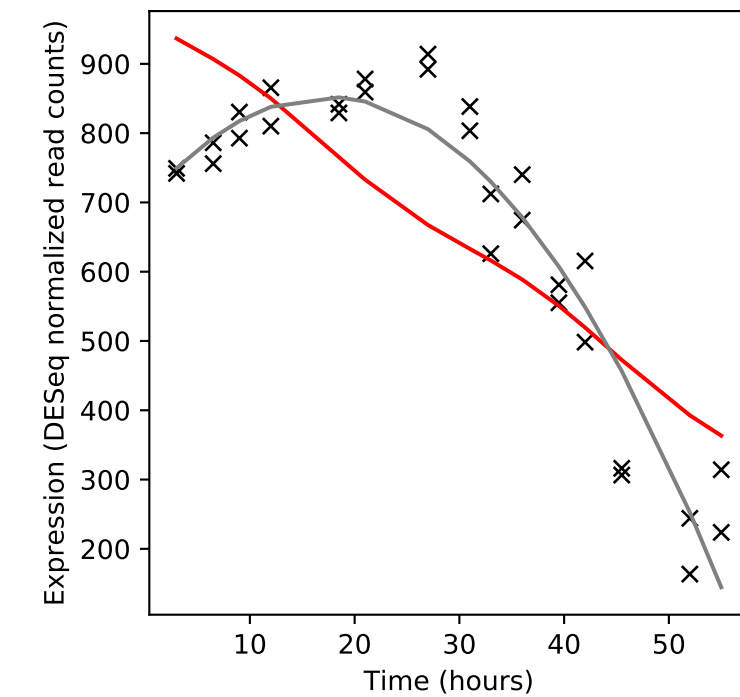
Rv2584c/apt



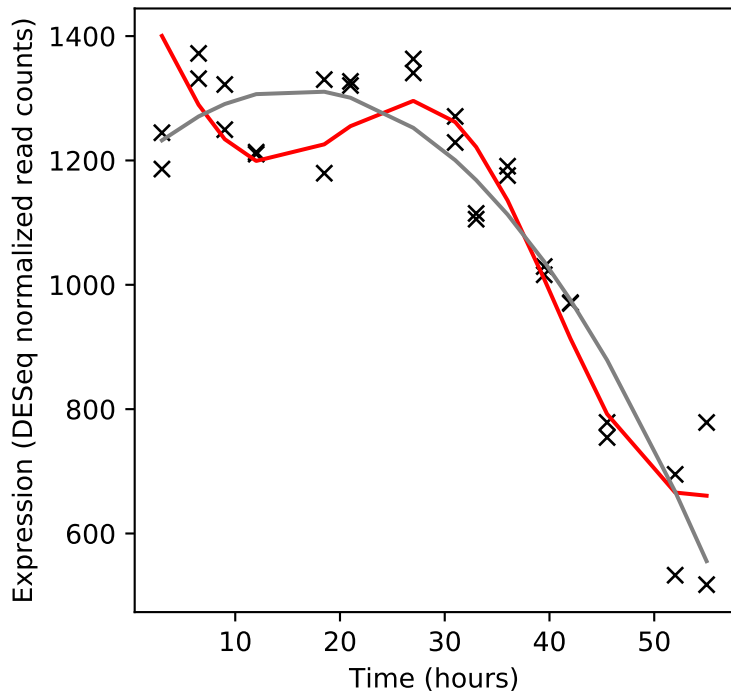
Rv2585c/-



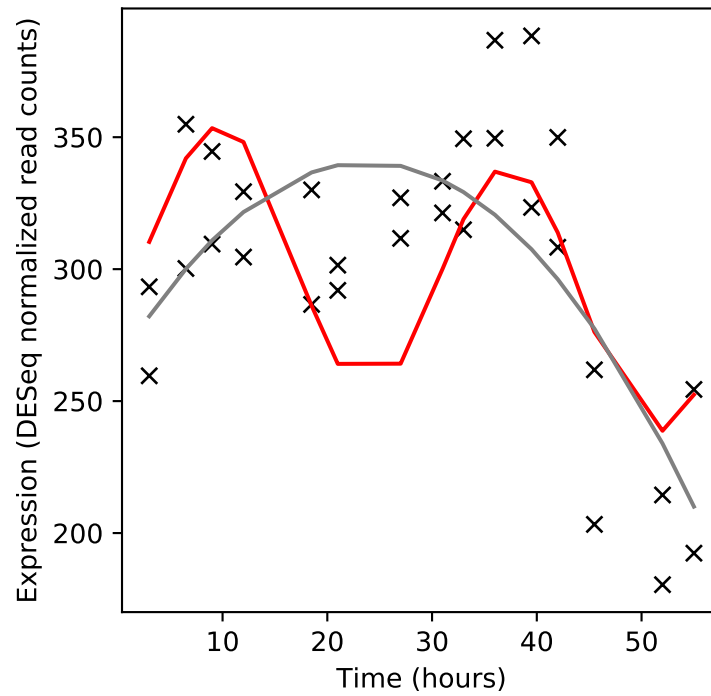
Rv2586c/secF



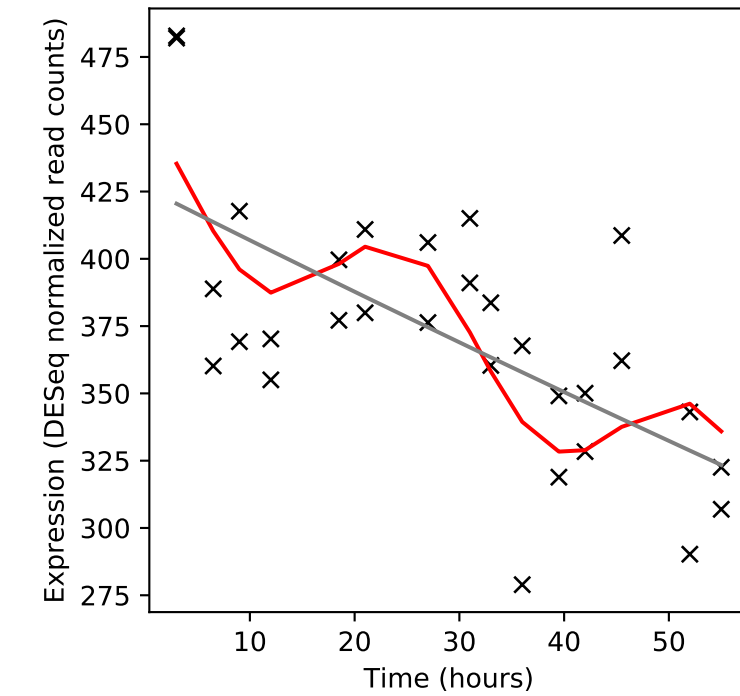
Rv2587c/secD



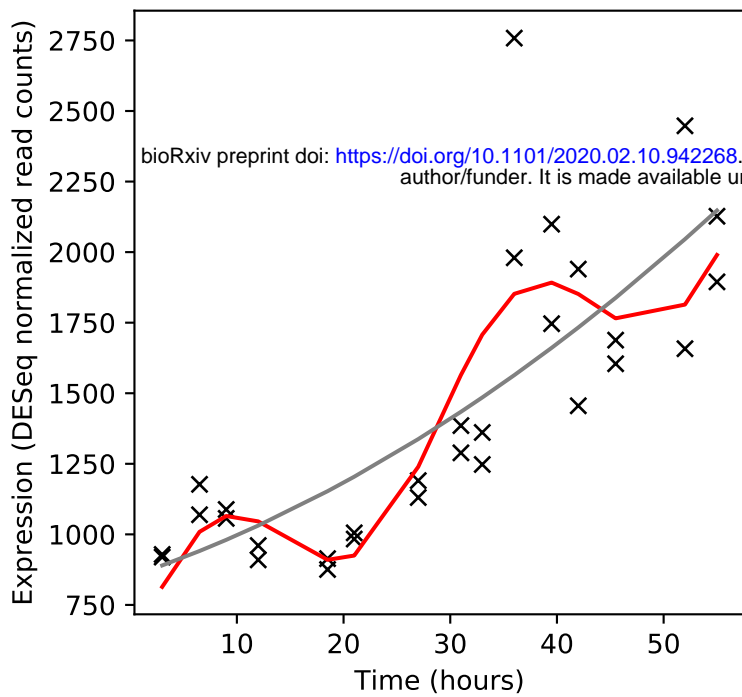
Rv2588c/yajC



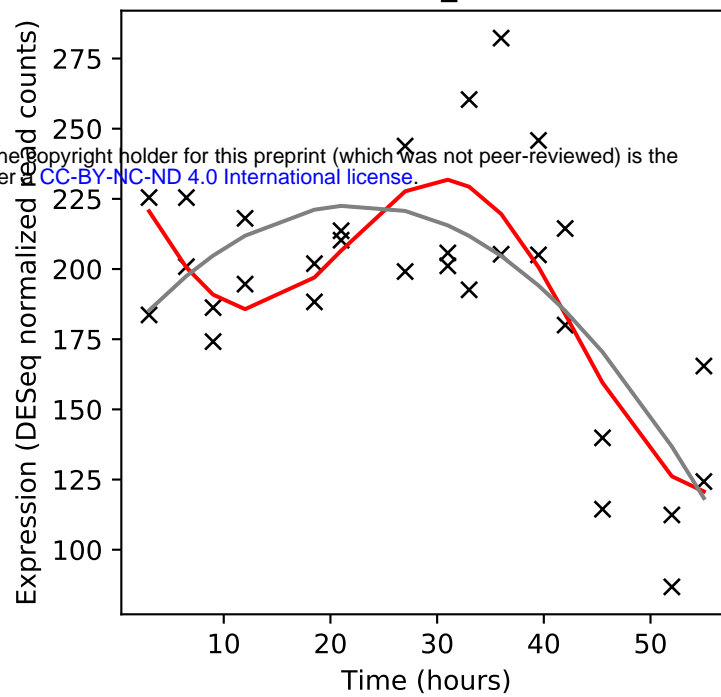
Rv2589/gabT



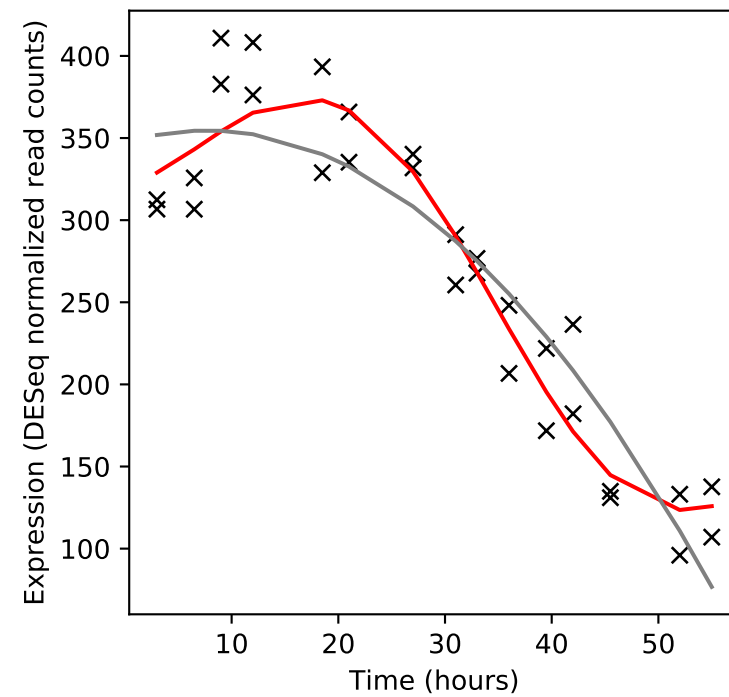
Rv2590/fadD9



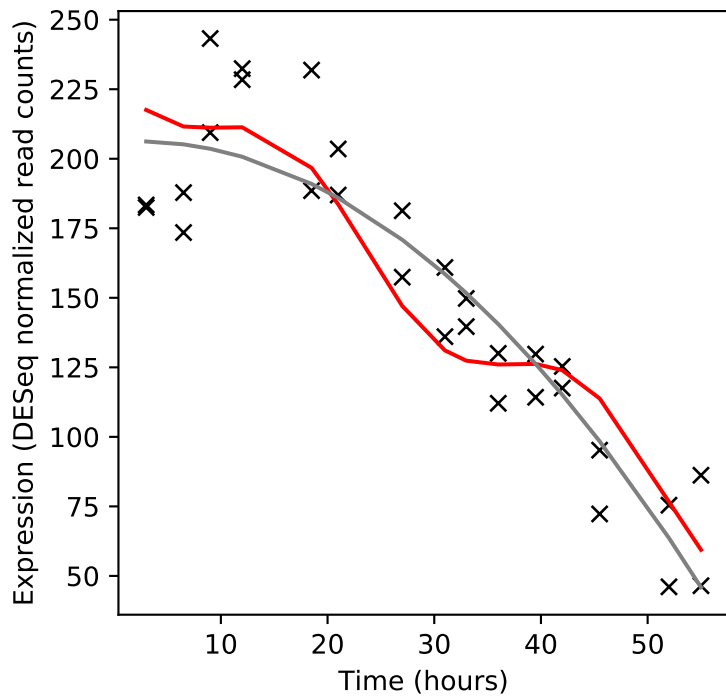
Rv2591/PE_PGRS44



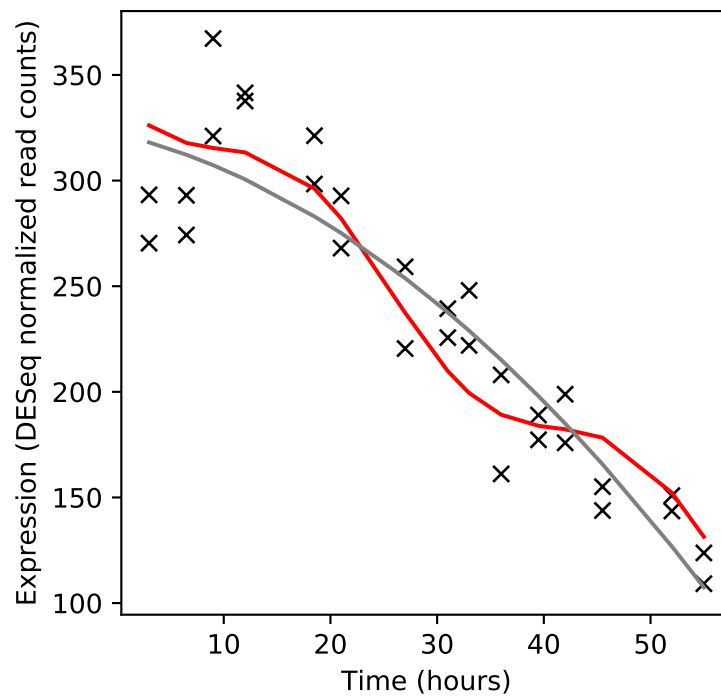
Rv2592c/ruvB



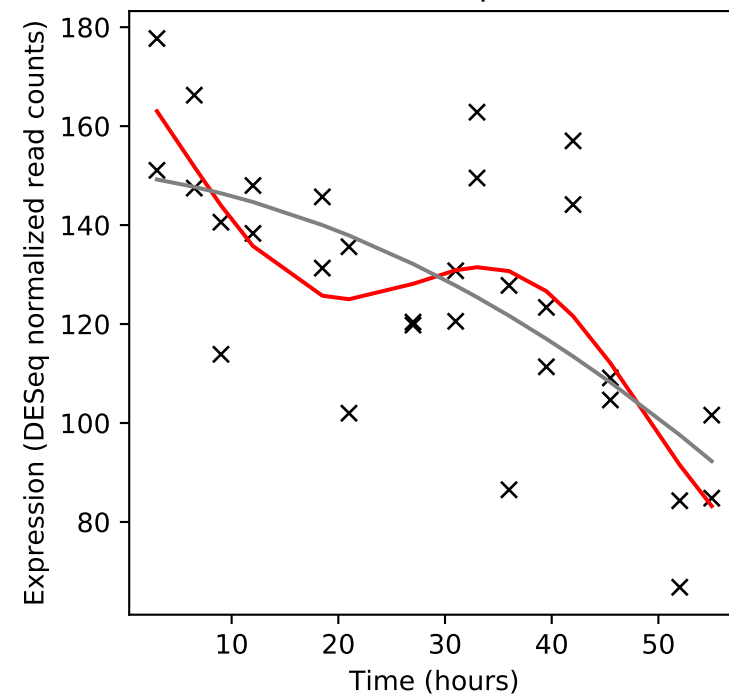
Rv2593c/ruvA



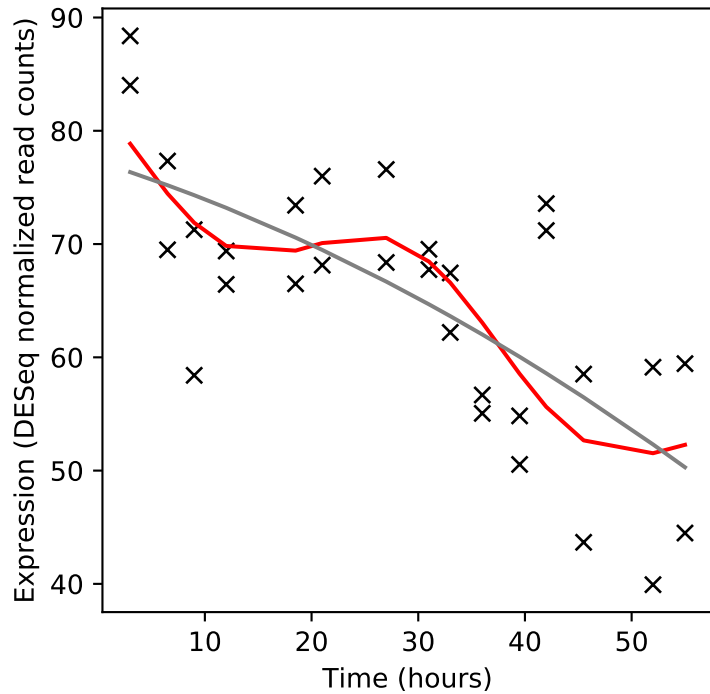
Rv2594c/ruvC



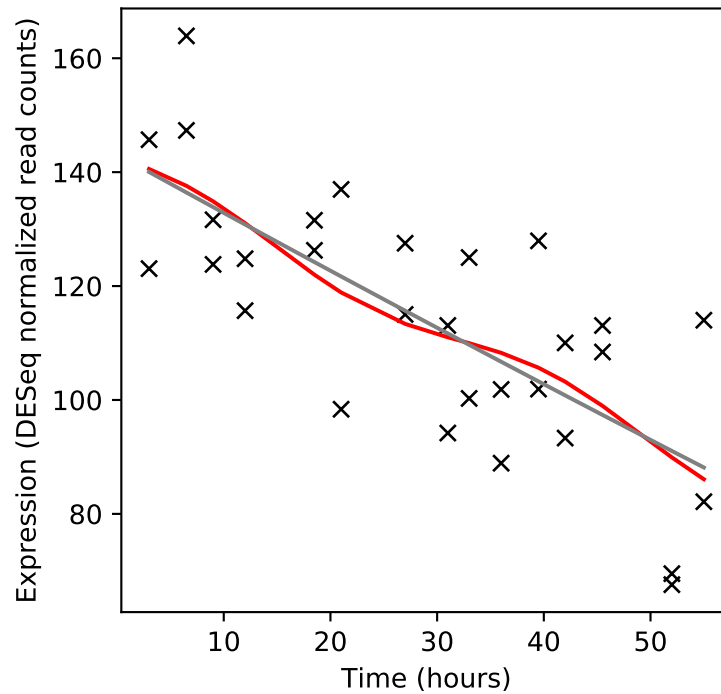
Rv2595/vapB40



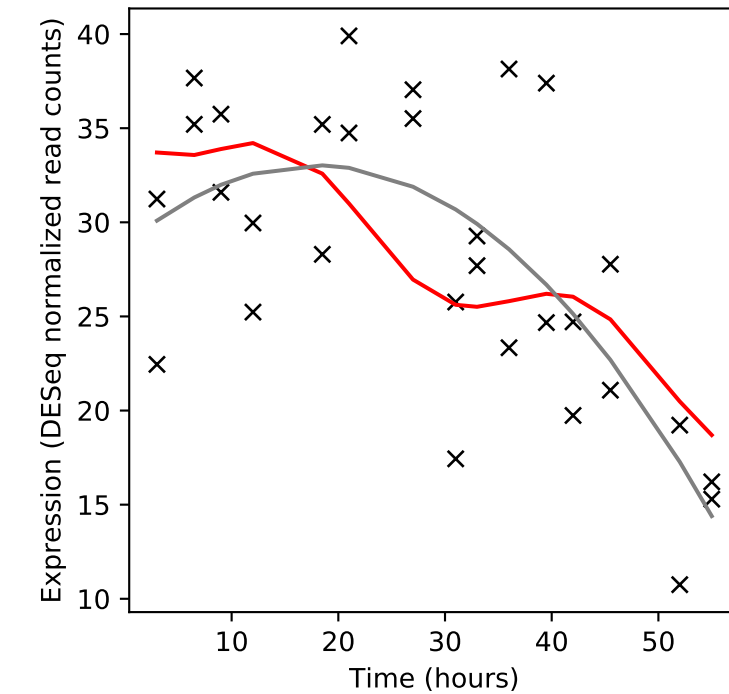
Rv2596/vapC40



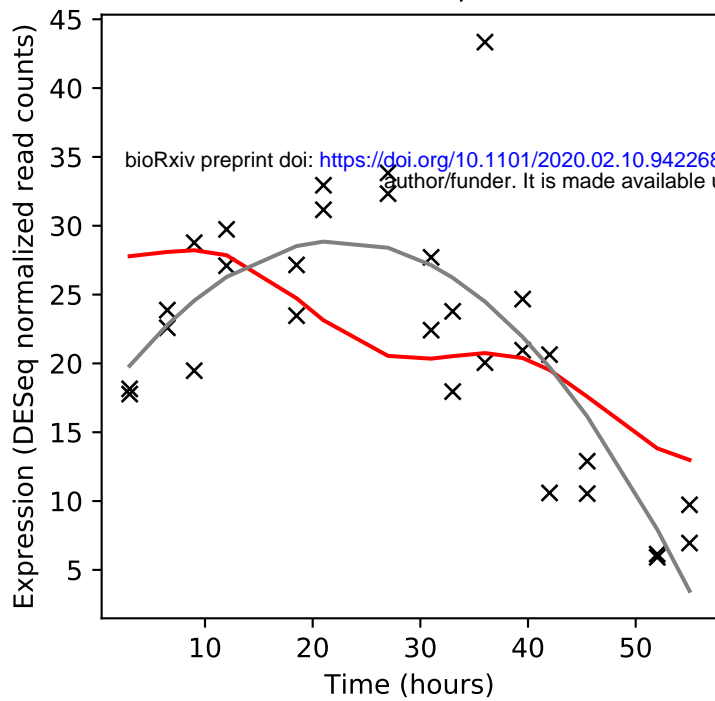
Rv2597/-



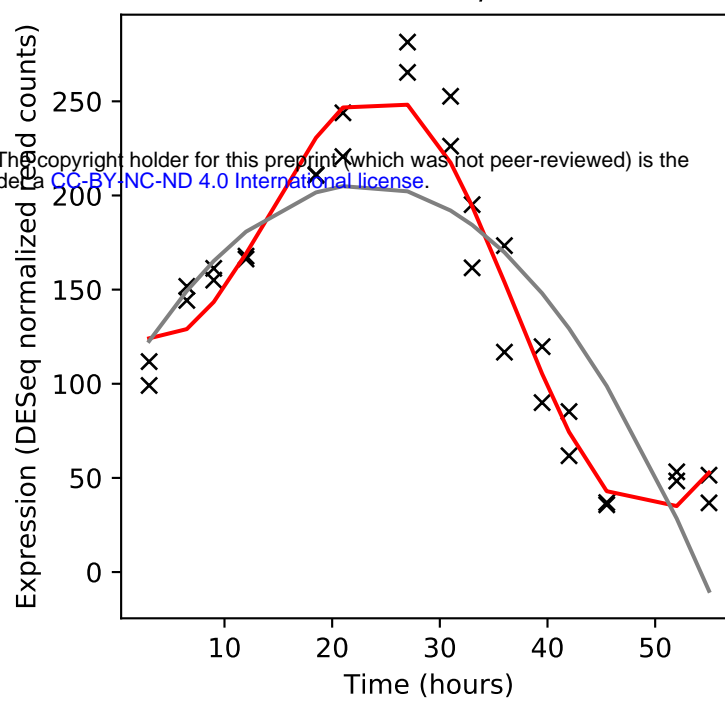
Rv2598/-



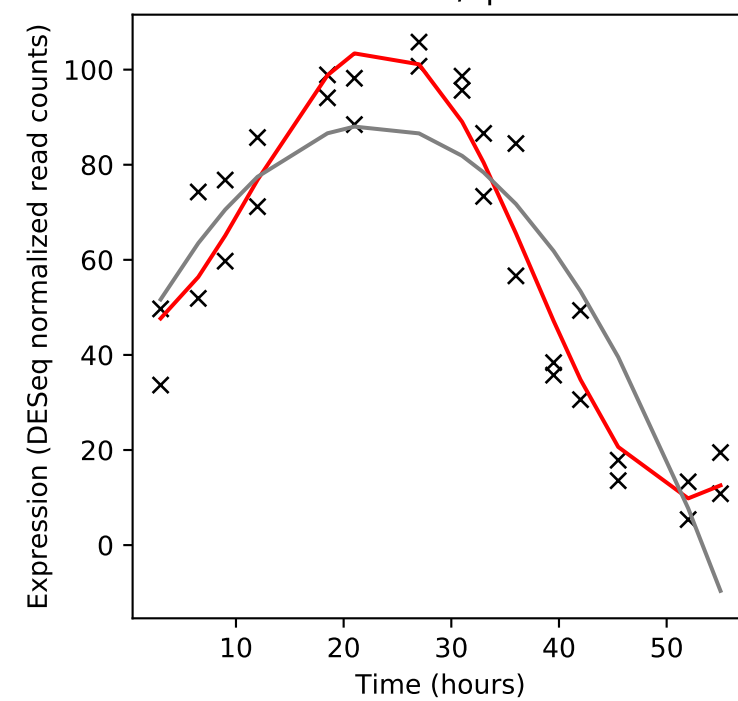
Rv2599/-



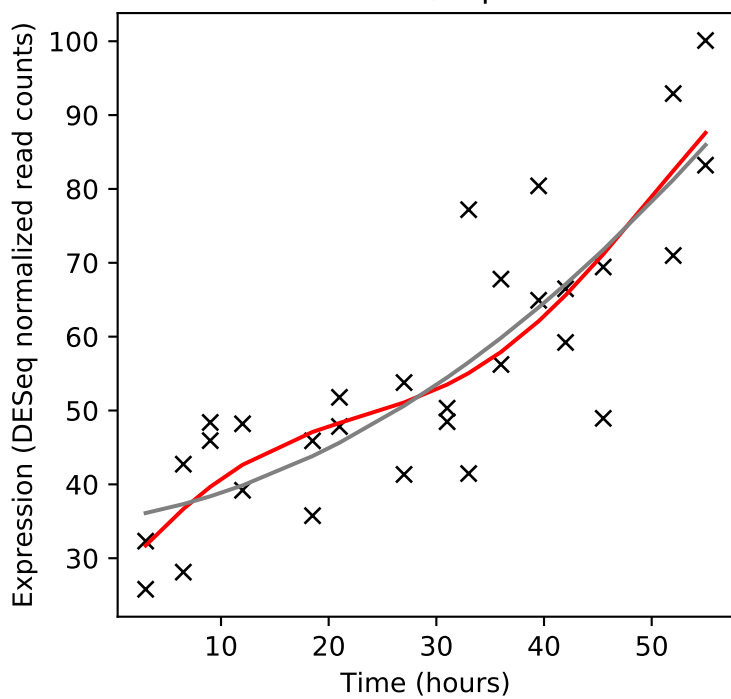
Rv2600/-



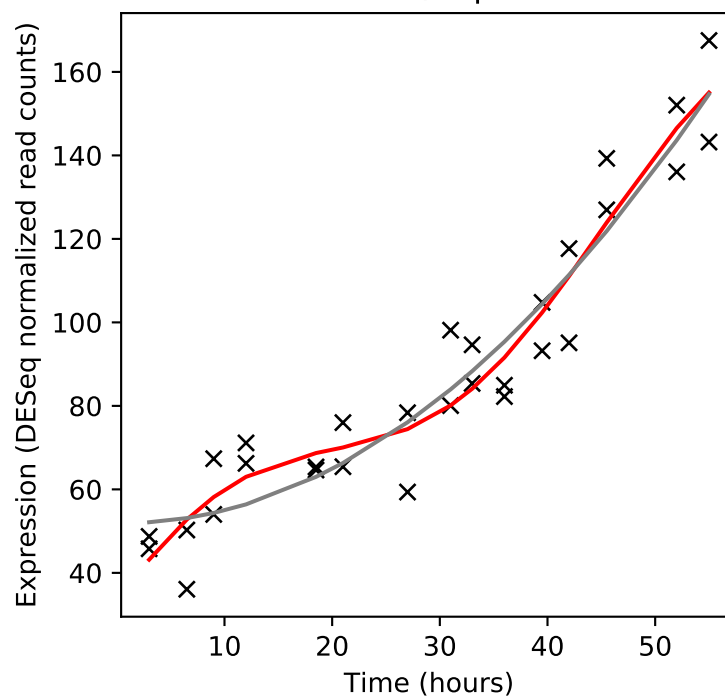
Rv2601/speE



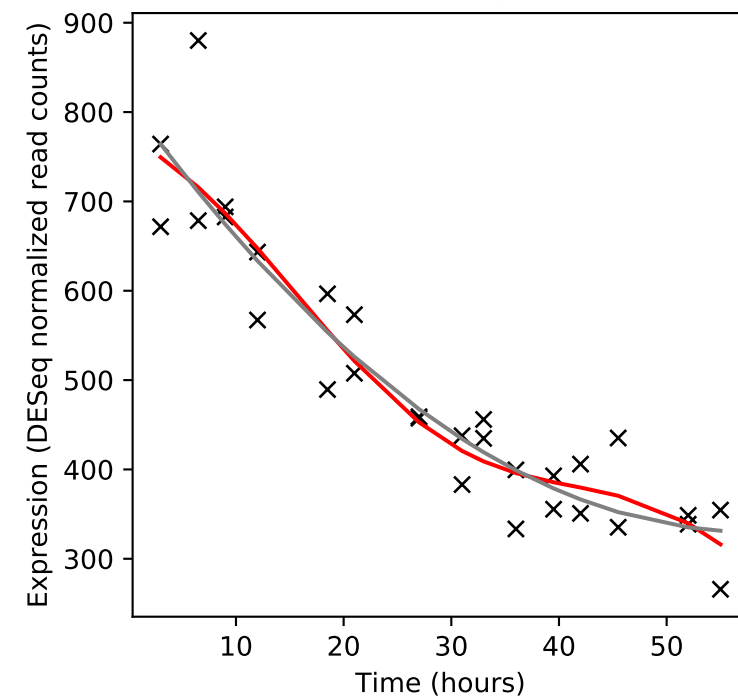
Rv2601A/vapB41



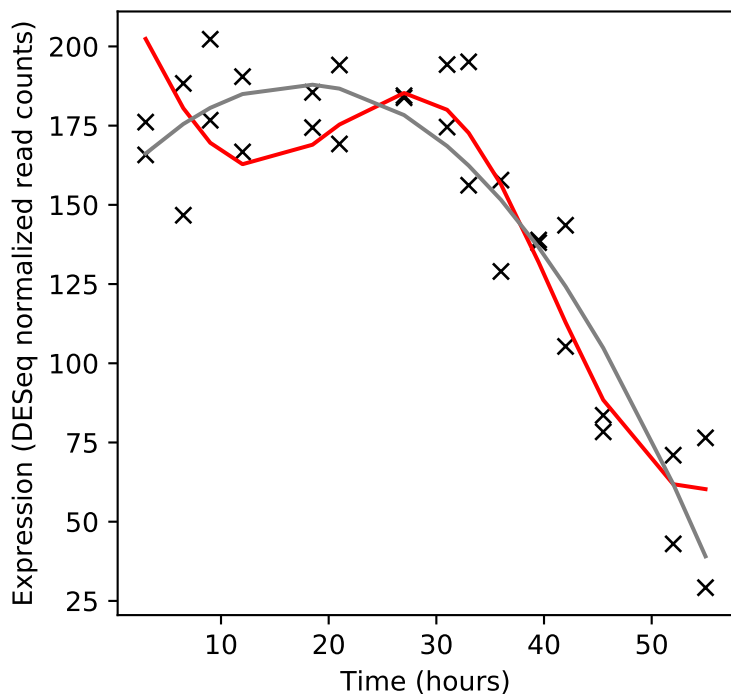
Rv2602/vapC41



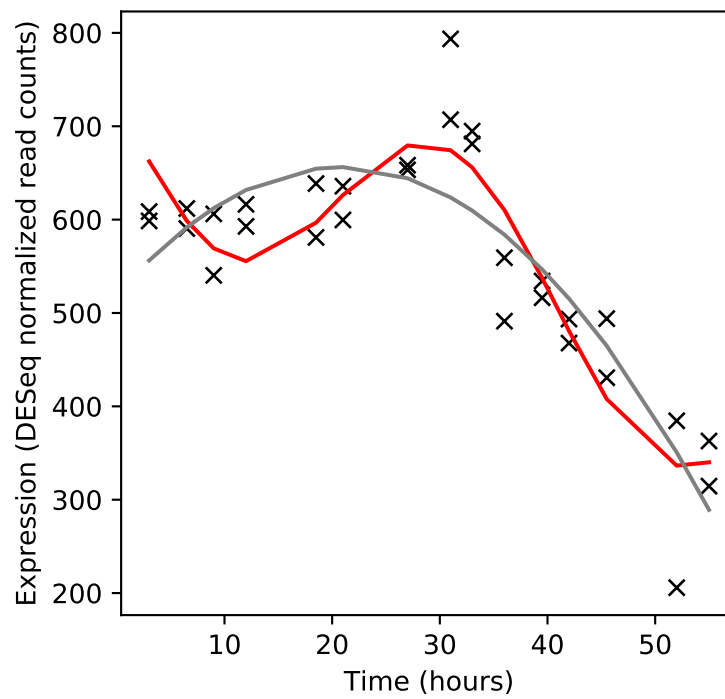
Rv2603c/-



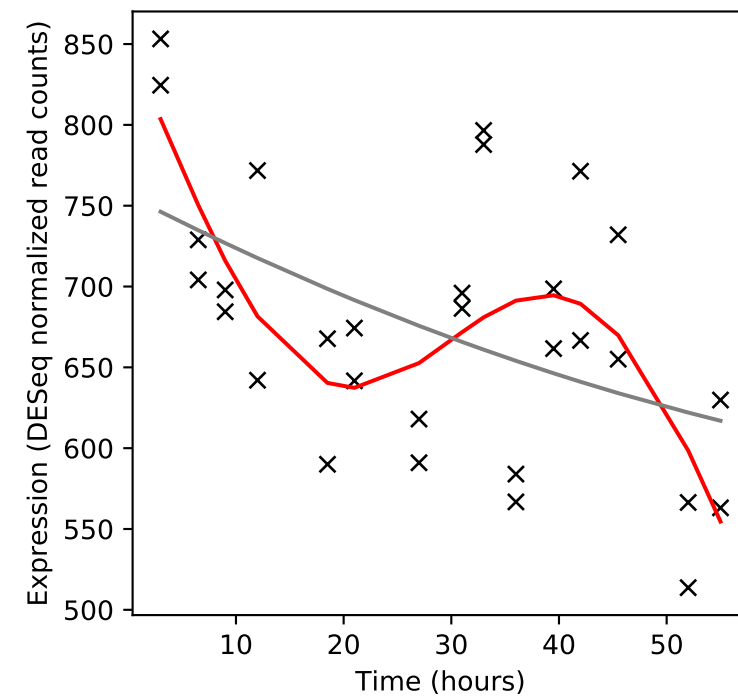
Rv2604c/snoP



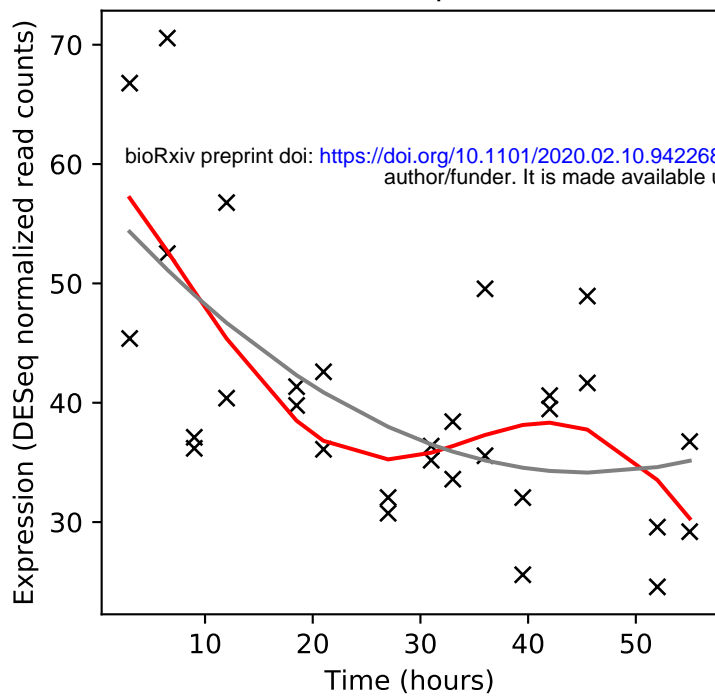
Rv2605c/tesB2



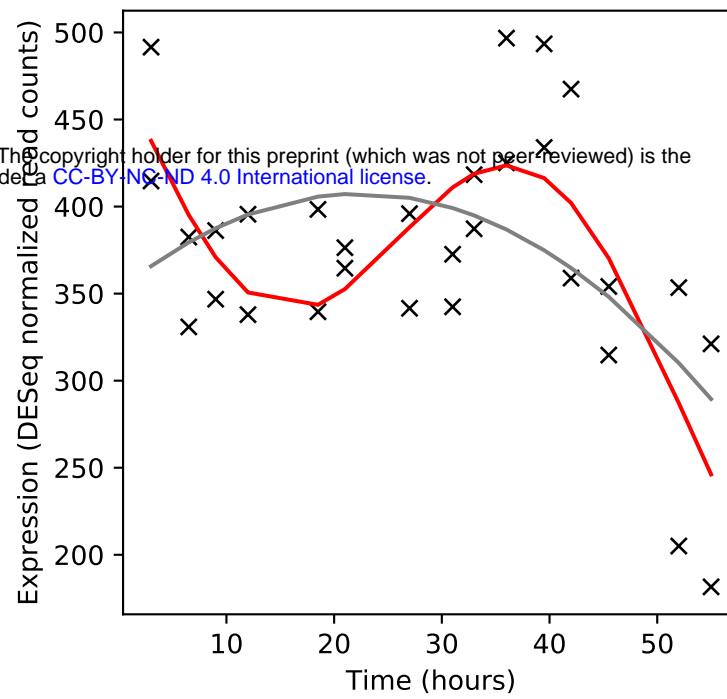
Rv2606c/snzP



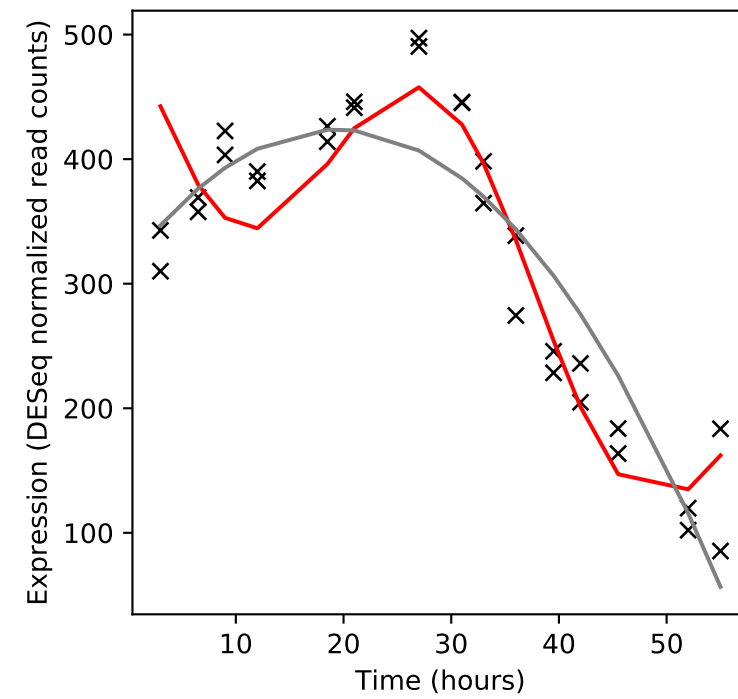
Rv2607/pdxH



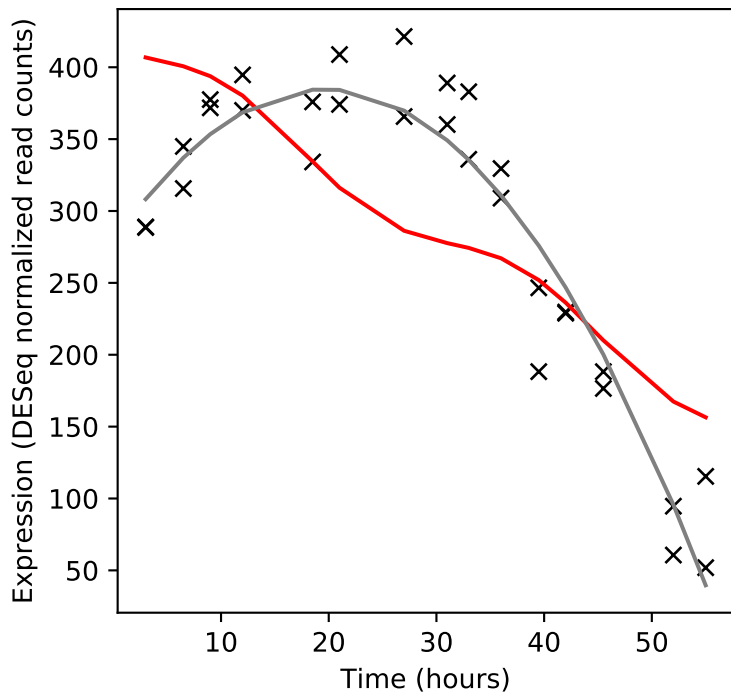
Rv2608/PPE42



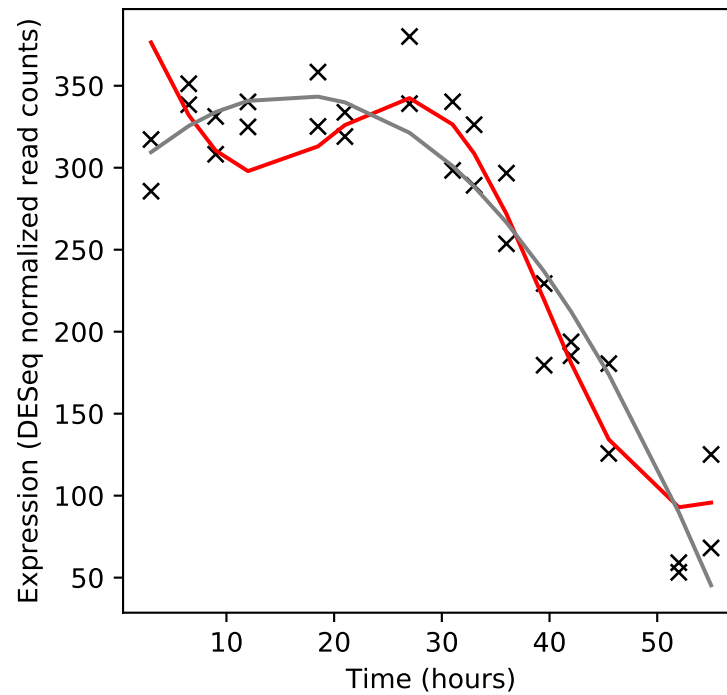
Rv2609c/-



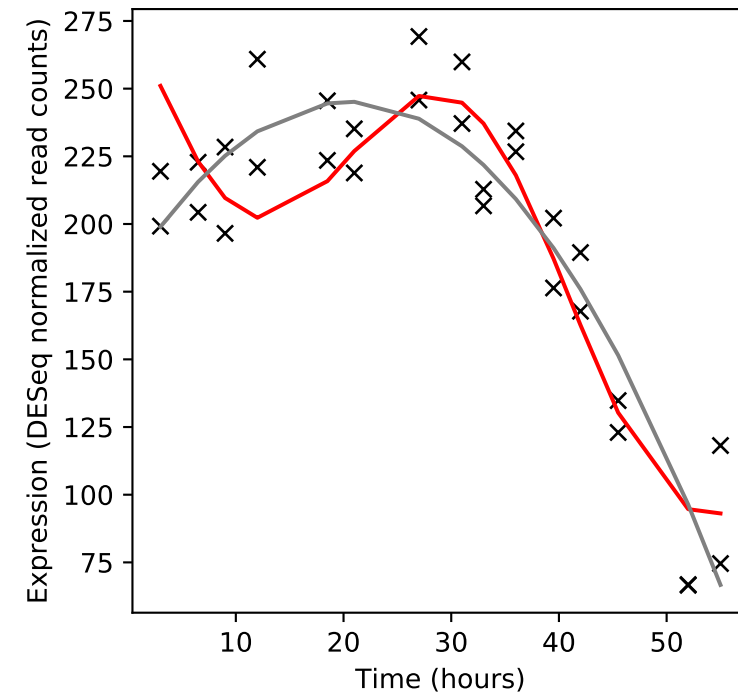
Rv2610c/pimA



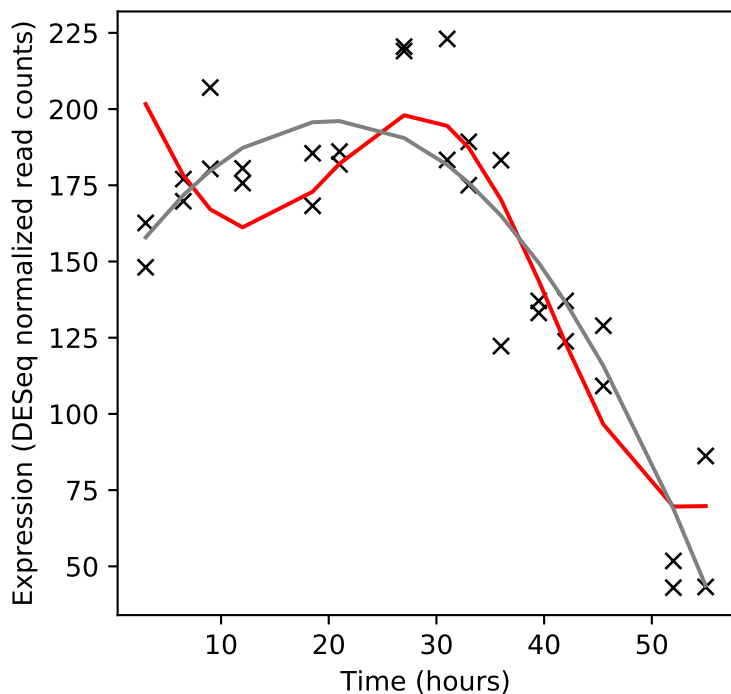
Rv2611c/-



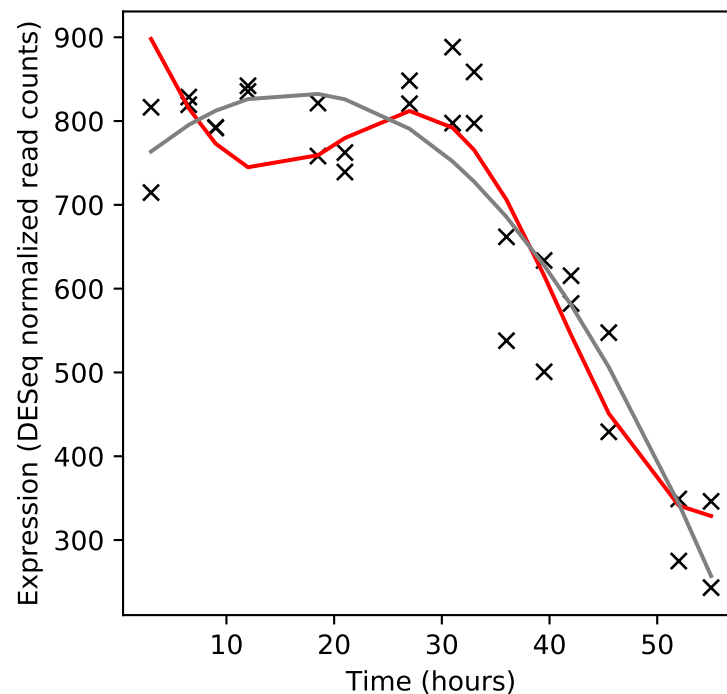
Rv2612c/pgsA1



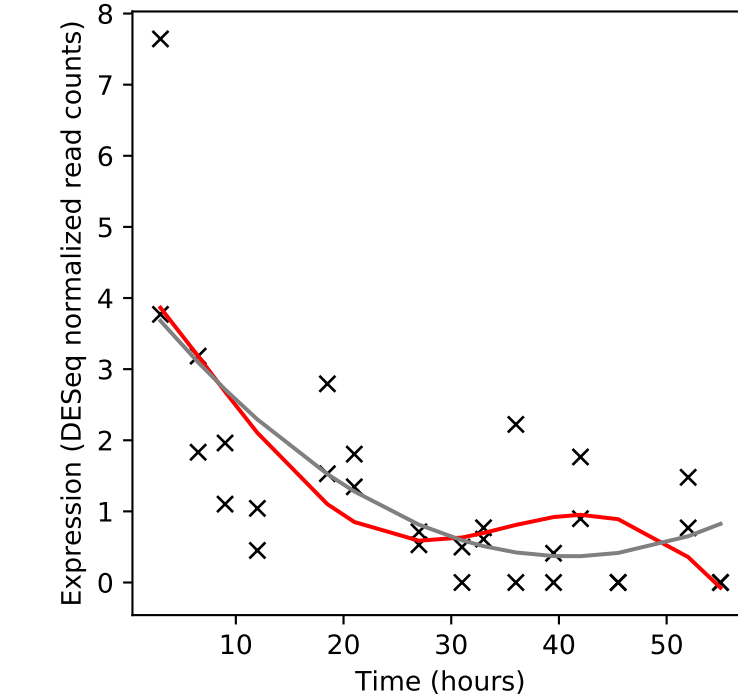
Rv2613c/-



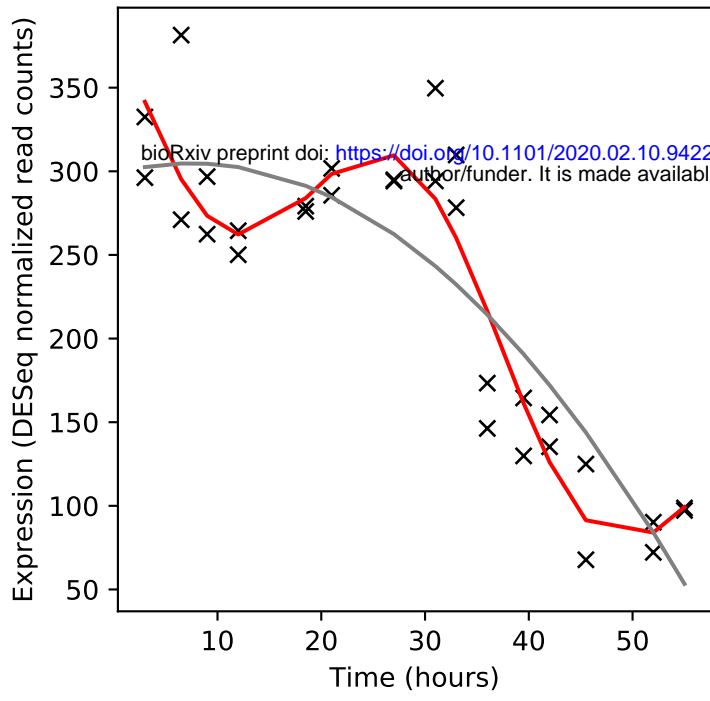
Rv2614c/thrS



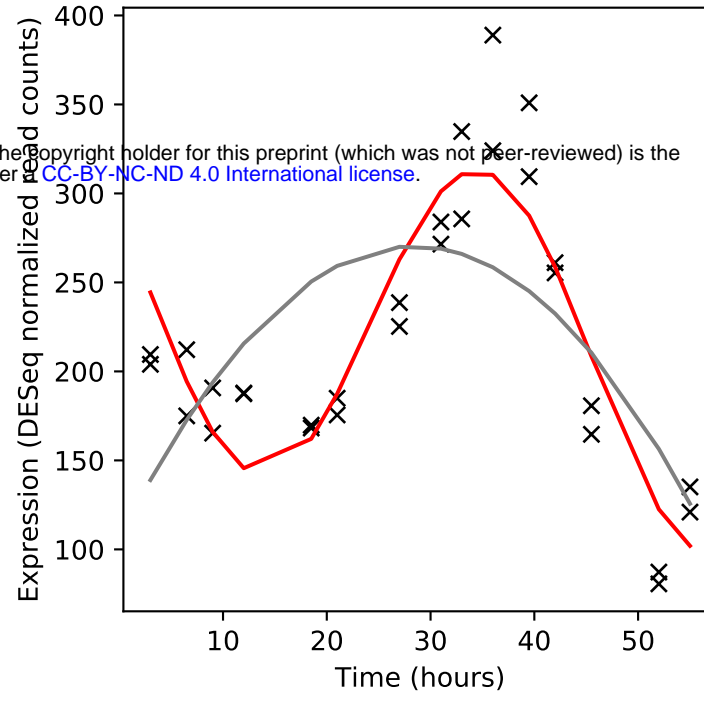
Rv2614A/-



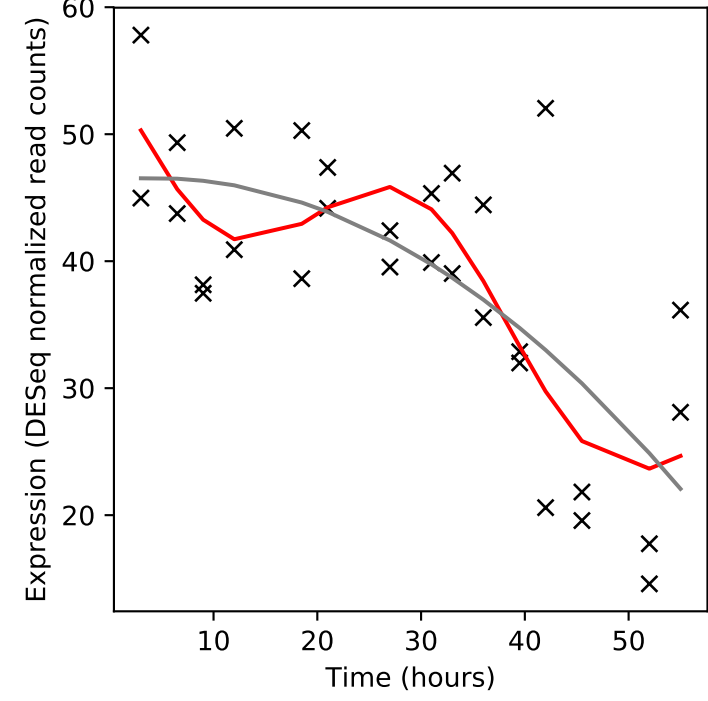
Rv2615c/PE_PGRS45



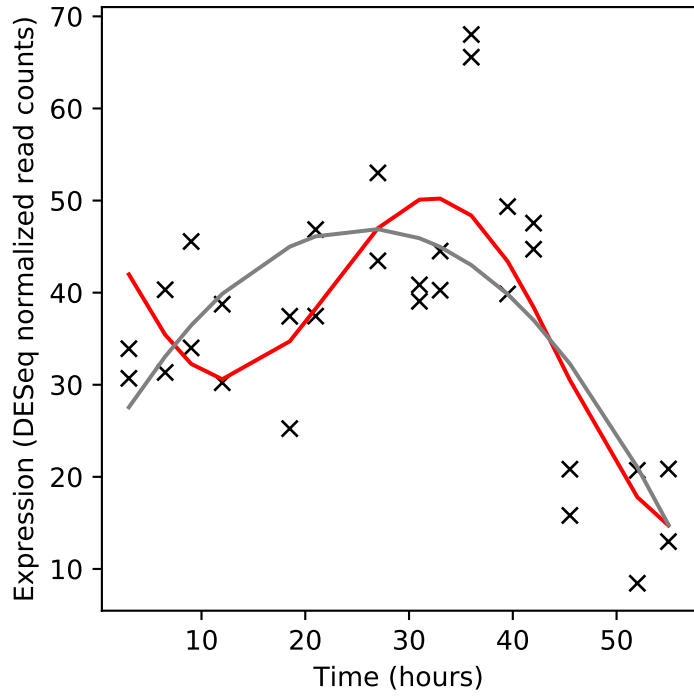
Rv2616/-



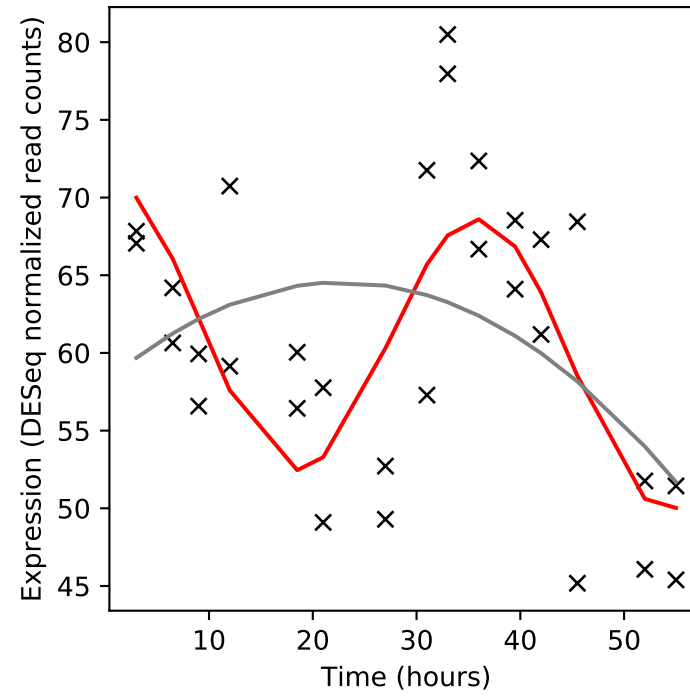
Rv2617c/-



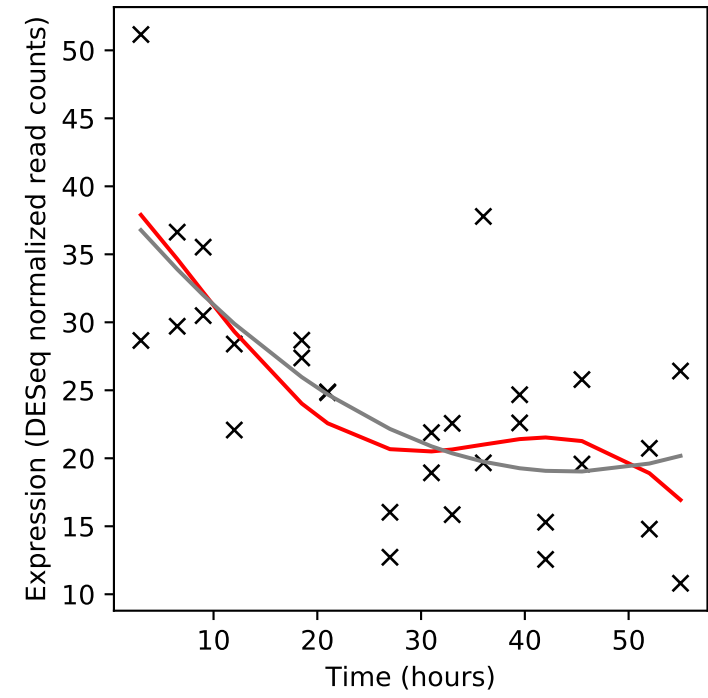
Rv2618/-



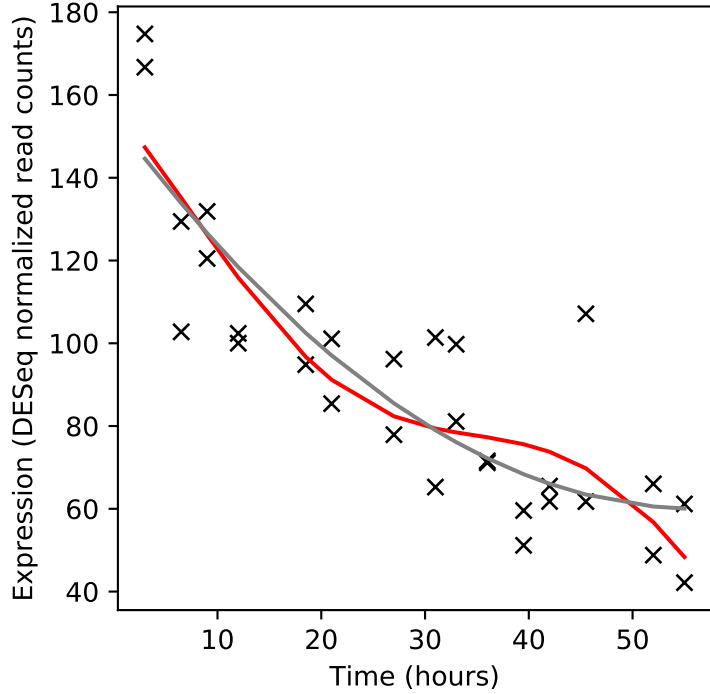
Rv2619c/-



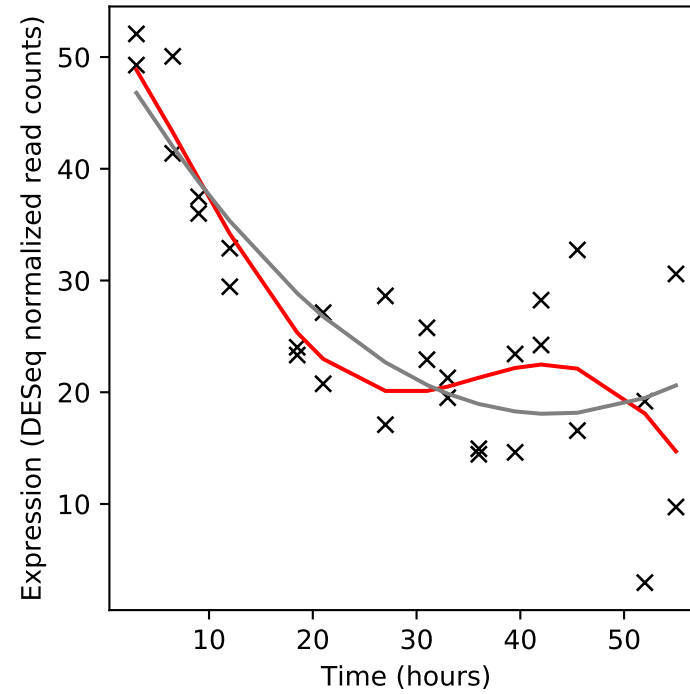
Rv2620c/-



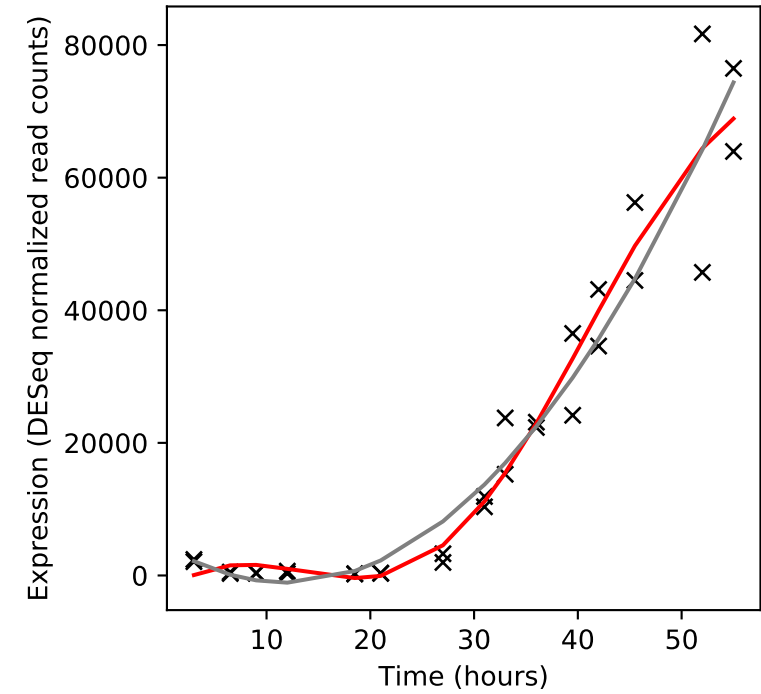
Rv2621c/-

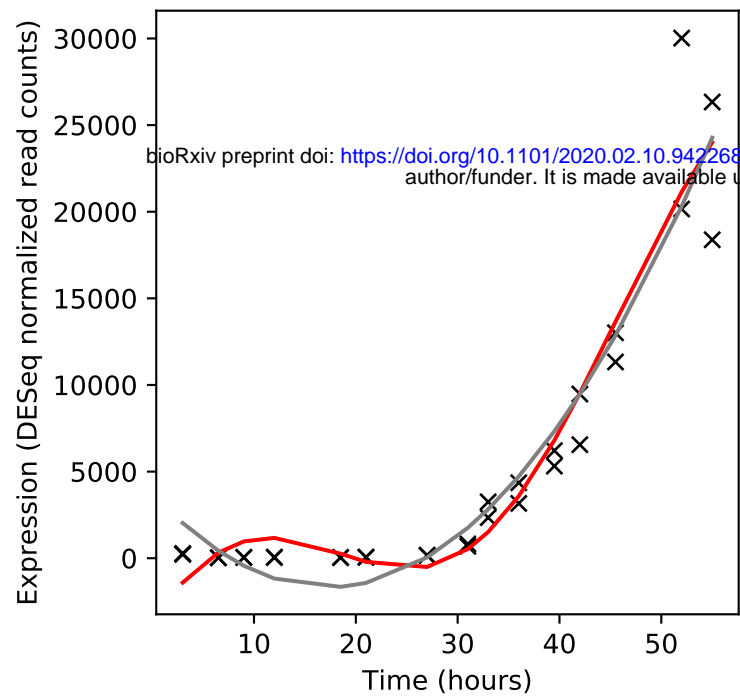
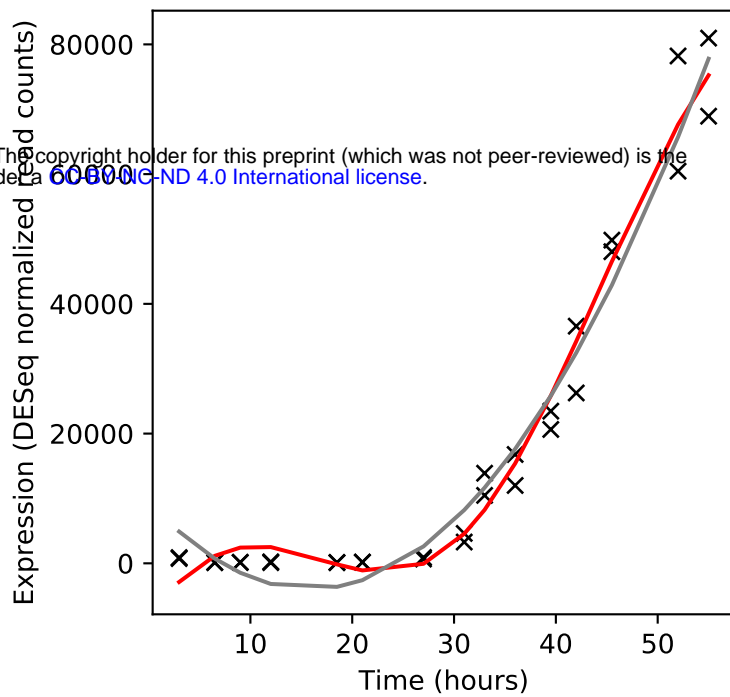
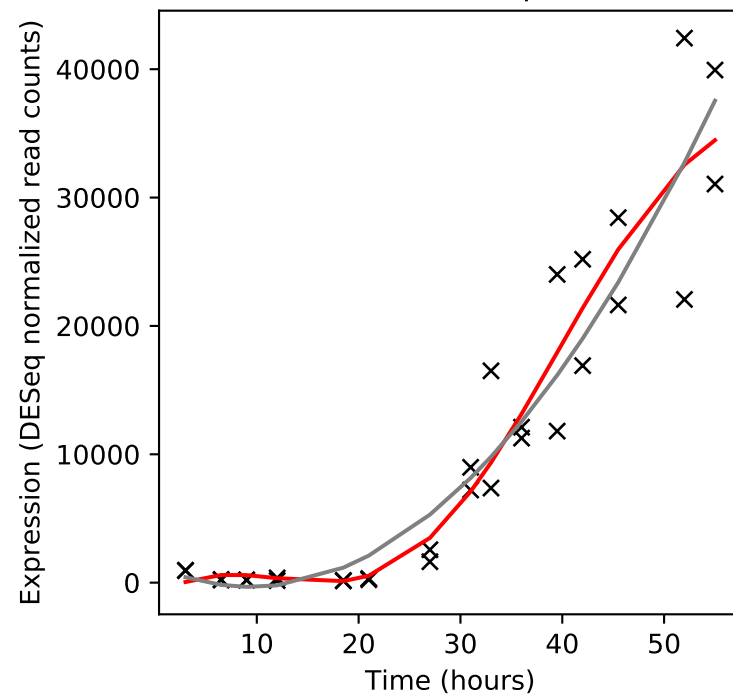
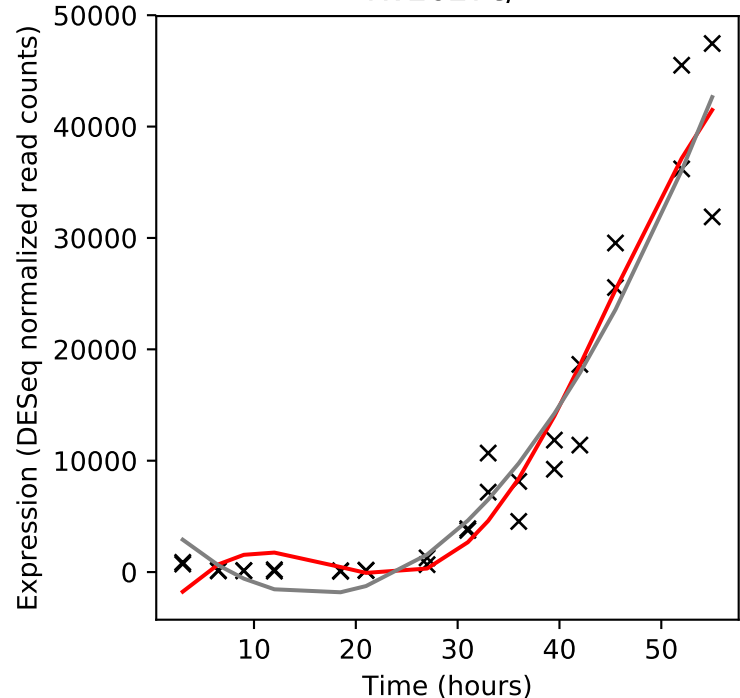
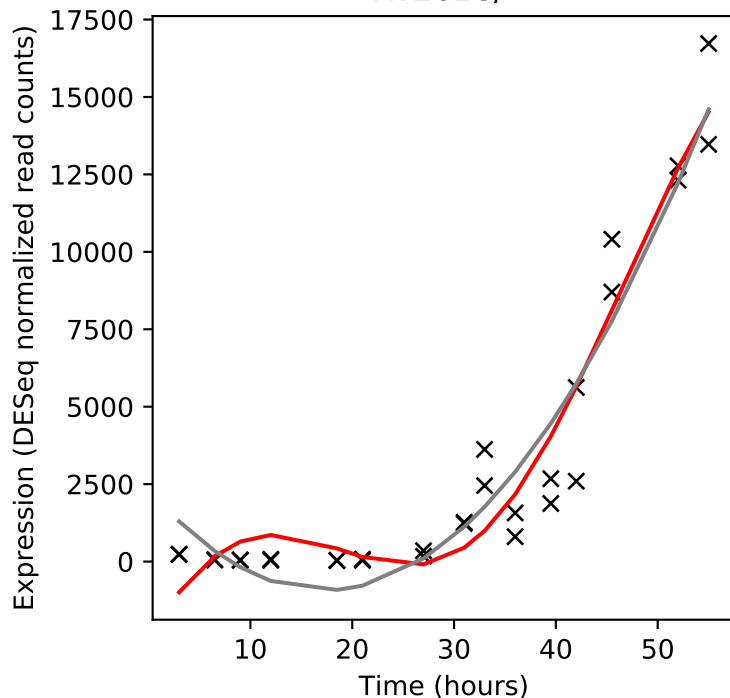
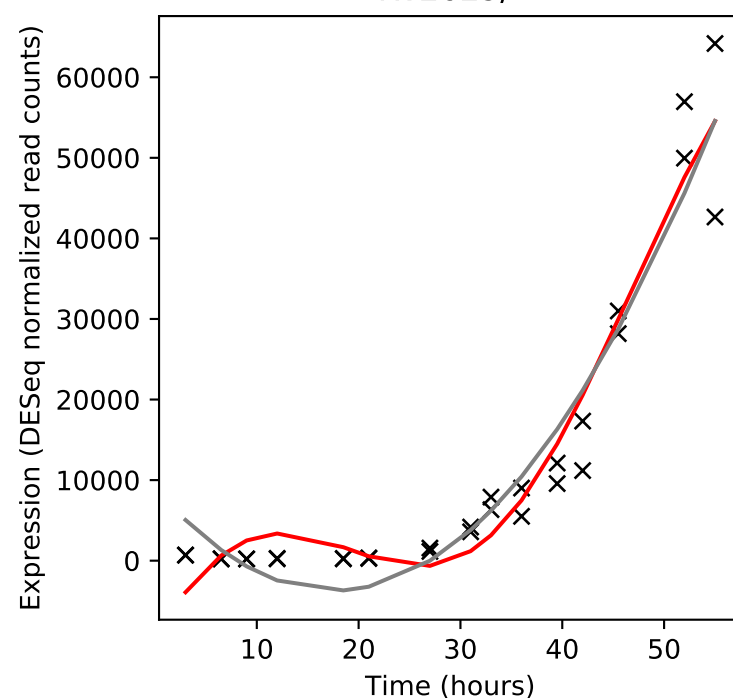
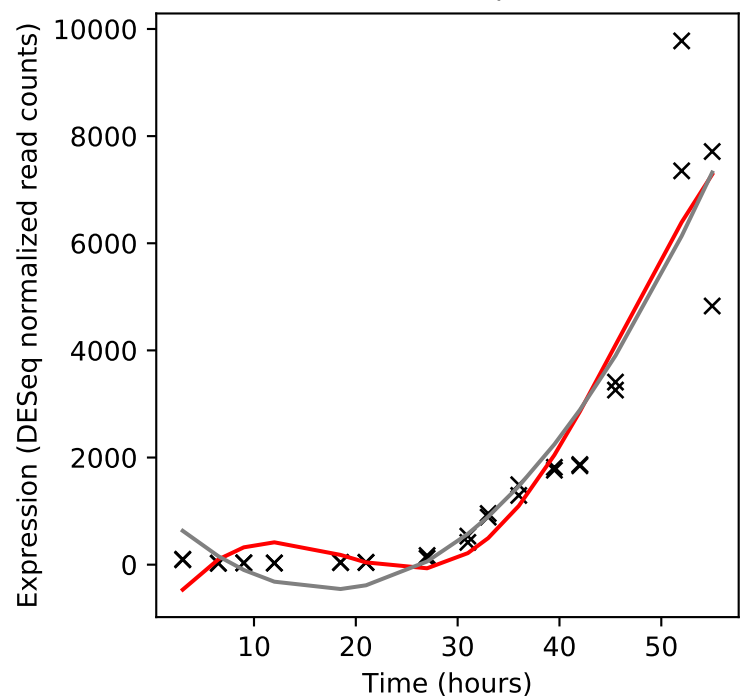
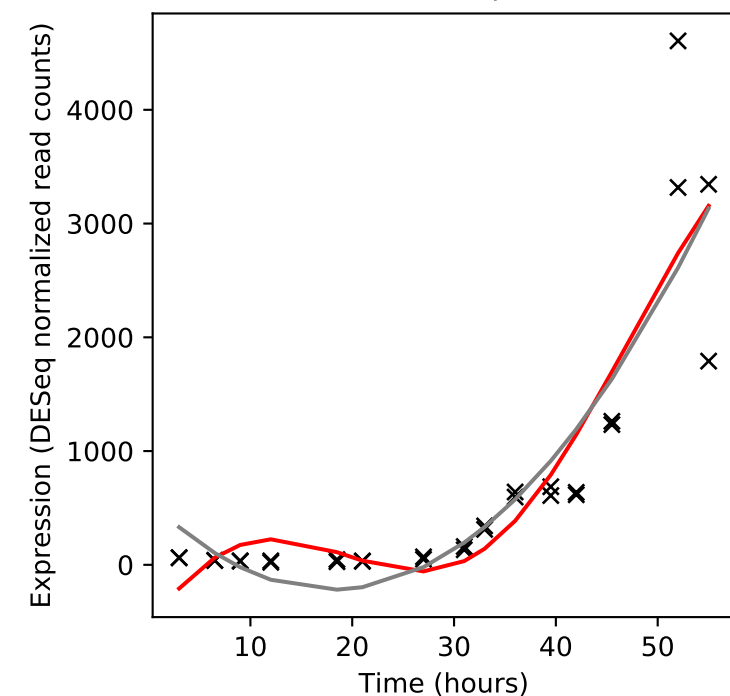
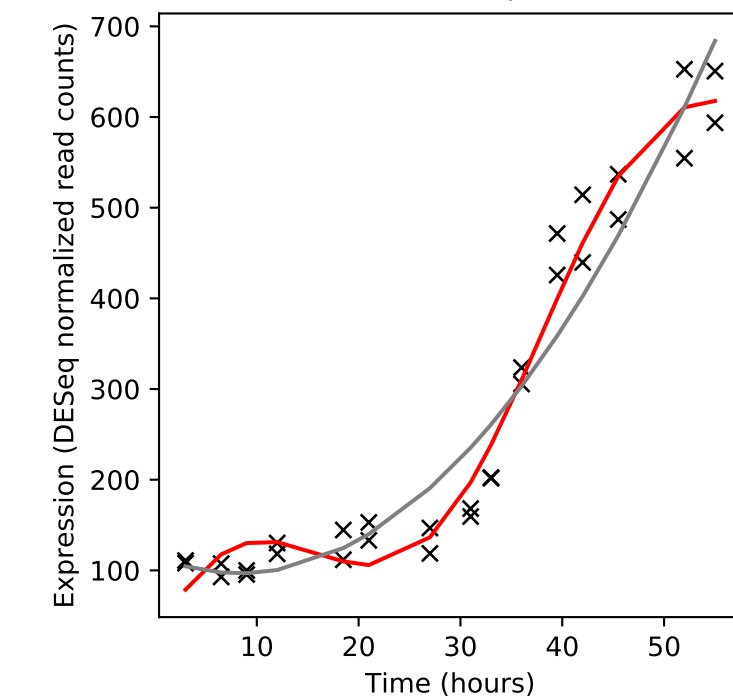


Rv2622/-

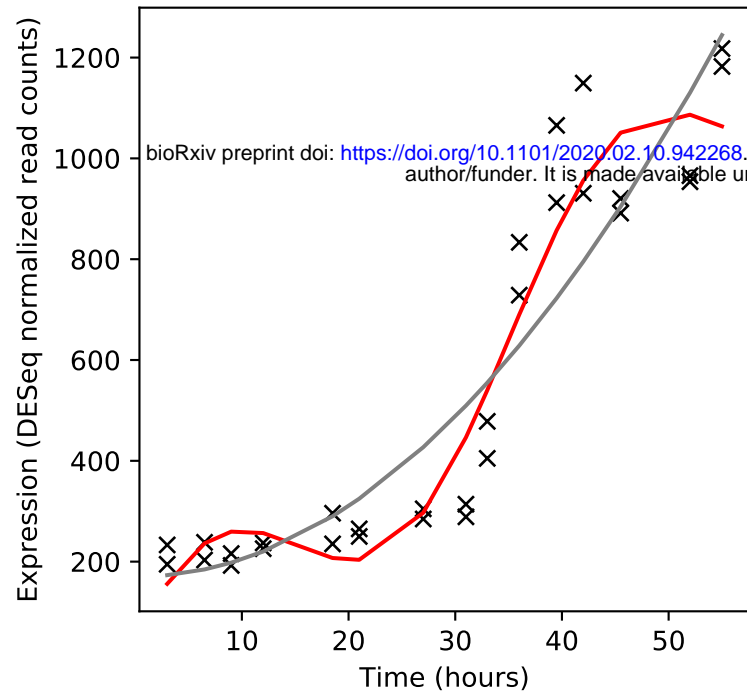


Rv2623/TB31.7

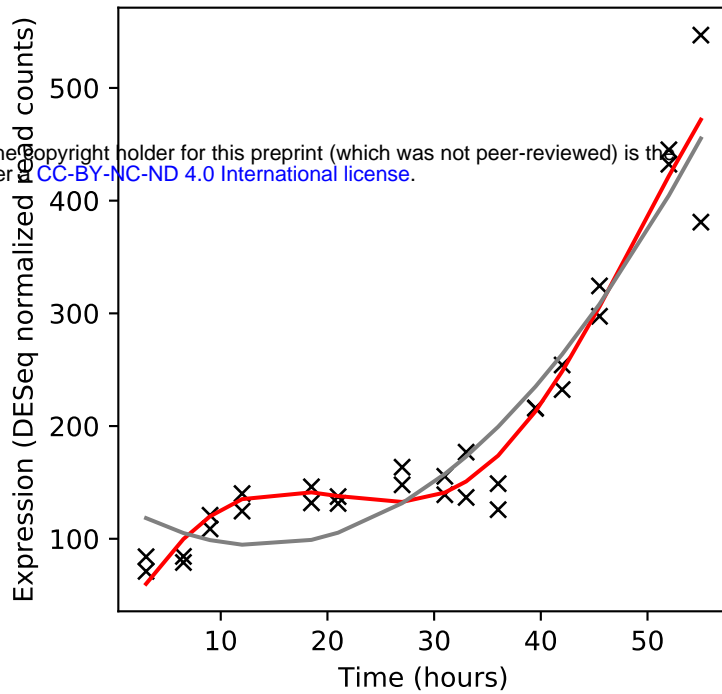


Rv2624c/-**Rv2625c/-****Rv2626c/hrp1****Rv2627c/-****Rv2628/-****Rv2629/-****Rv2630/-****Rv2631/-****Rv2632c/-**

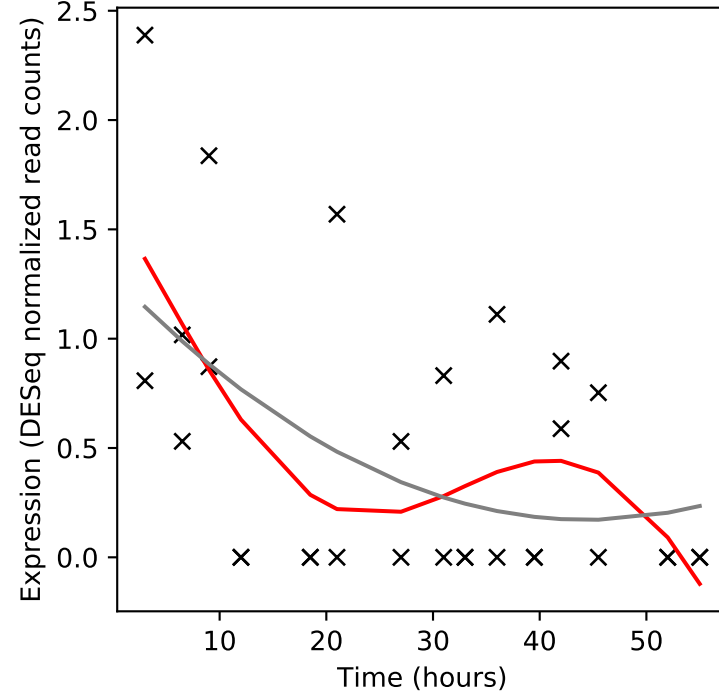
Rv2633c/-



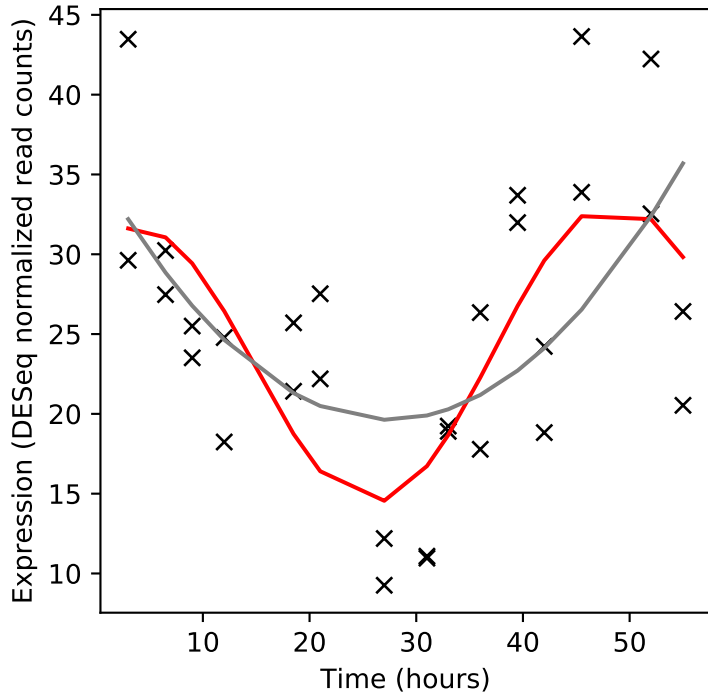
Rv2634c/PE_PGRS46



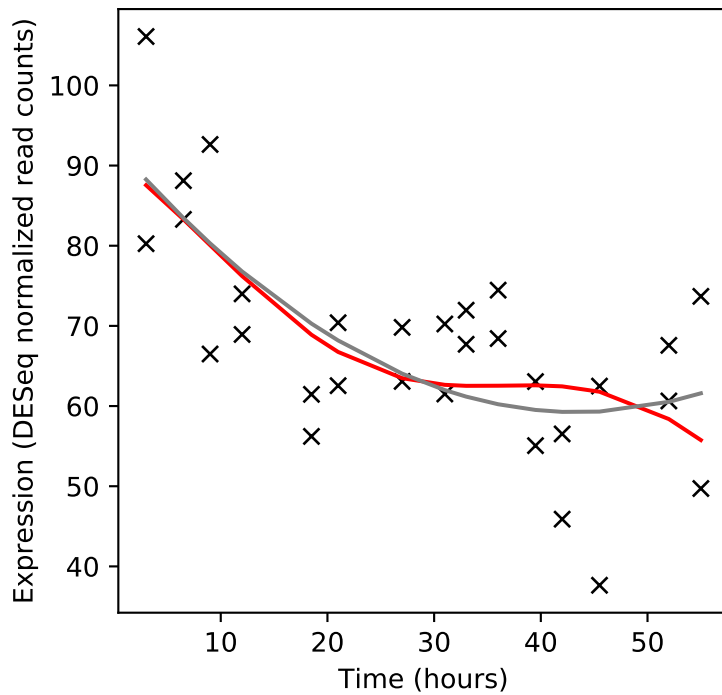
Rv2635/-



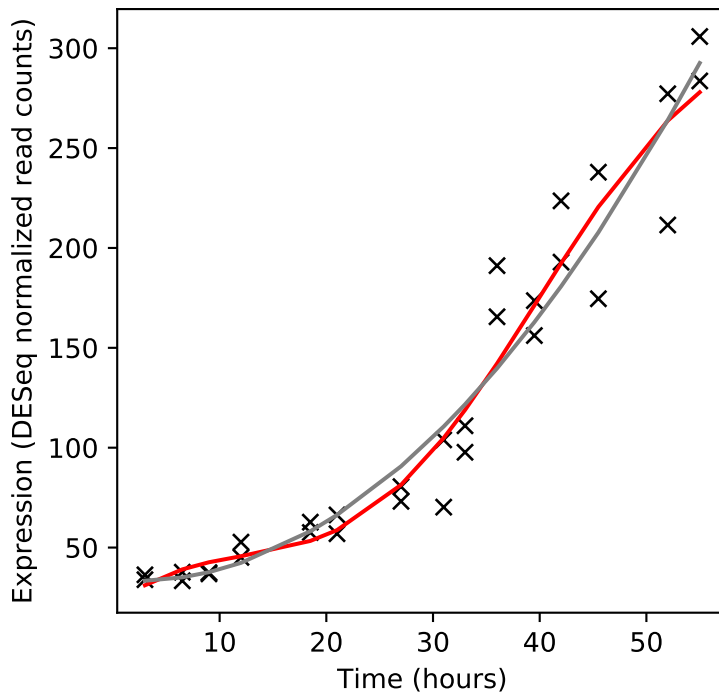
Rv2636/-



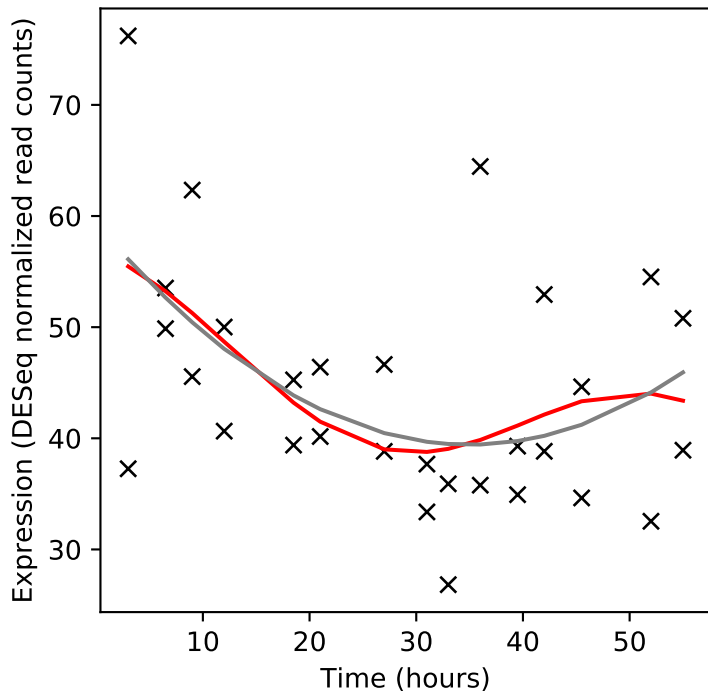
Rv2637/dedA



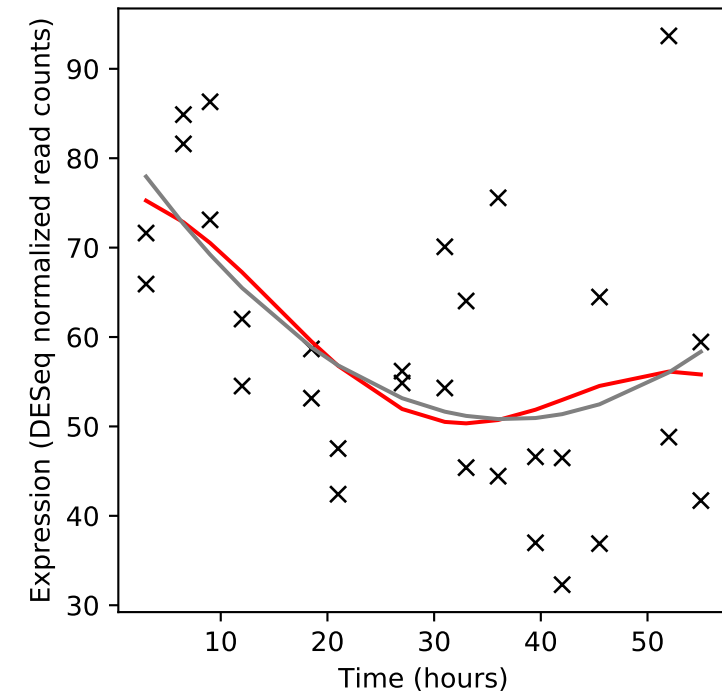
Rv2638/-



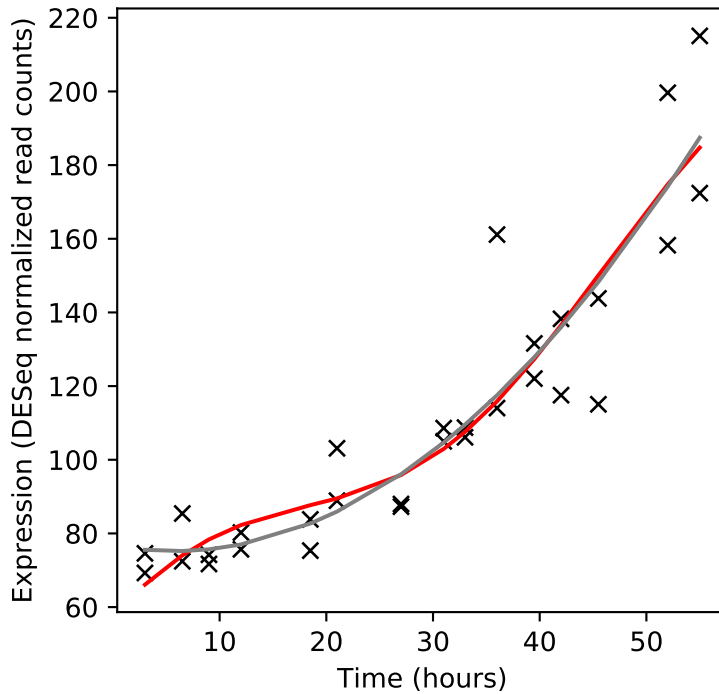
Rv2639c/-



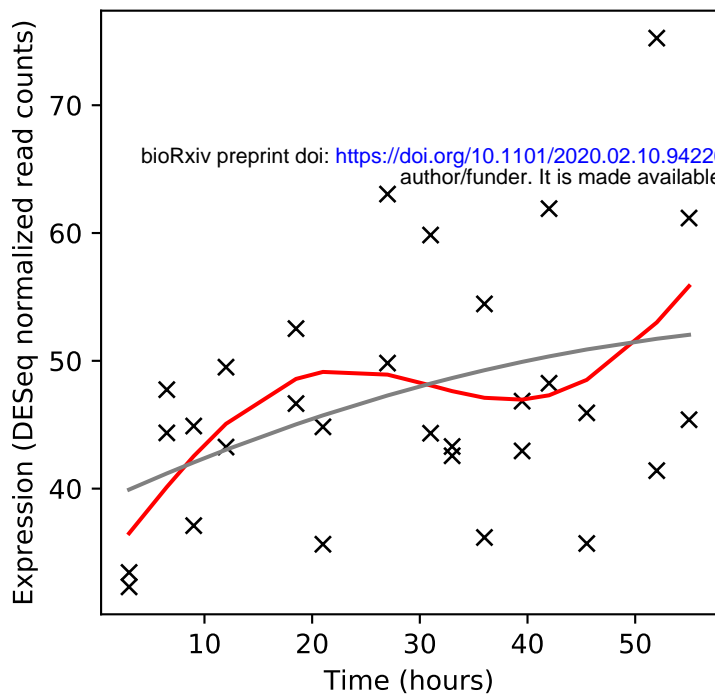
Rv2640c/-



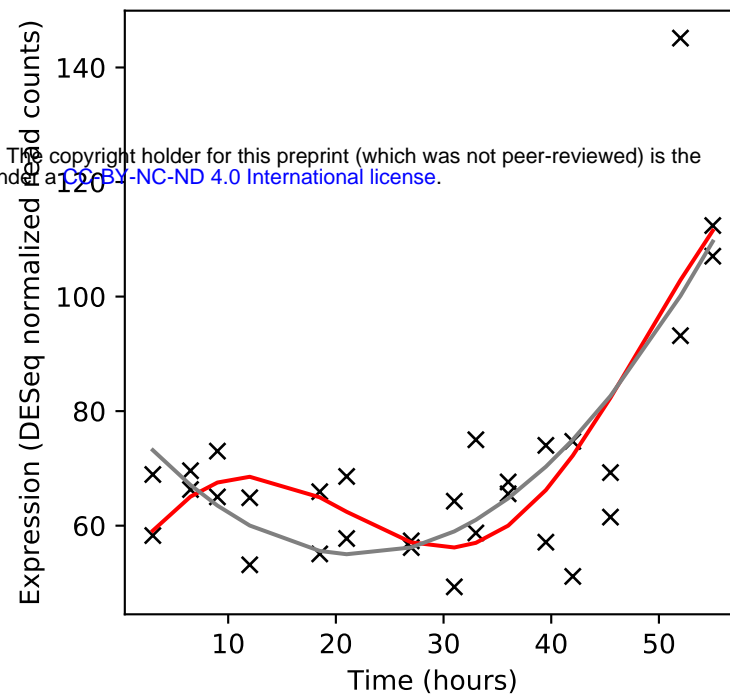
Rv2641/cadI



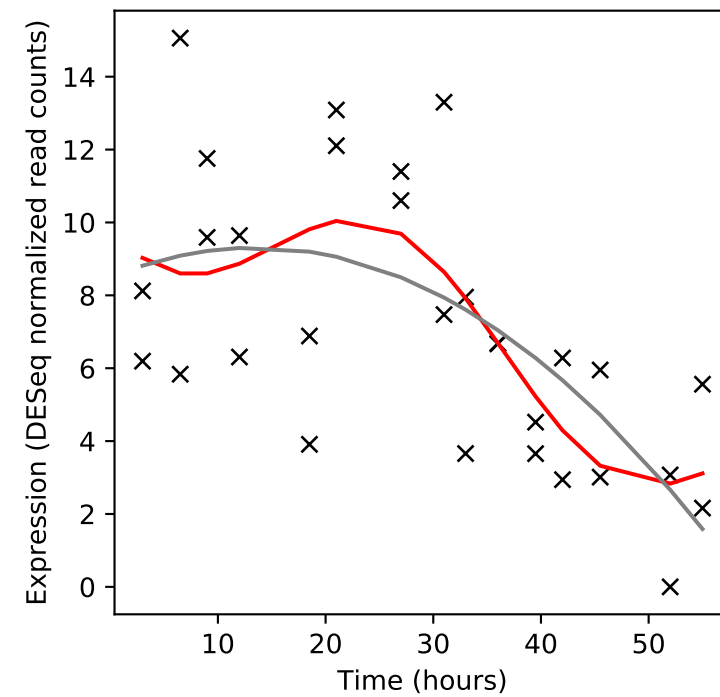
Rv2642/-



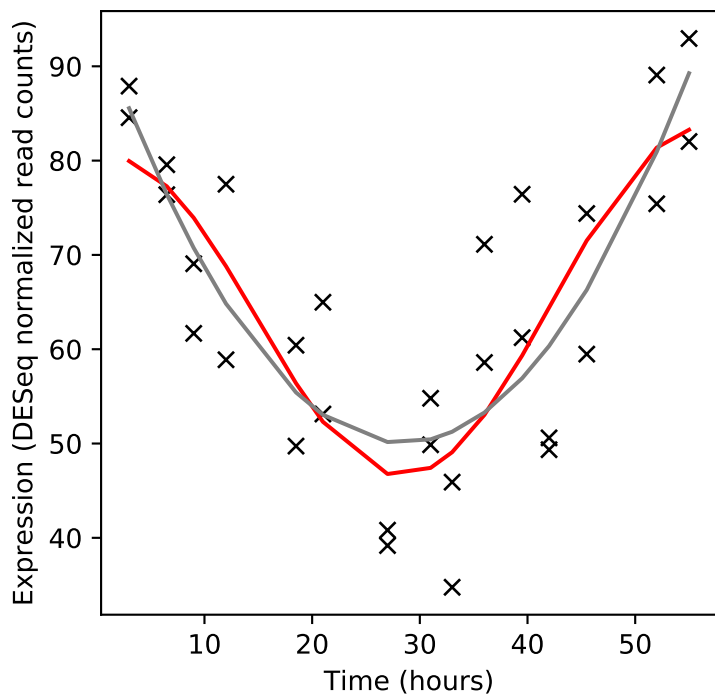
Rv2643/arsC



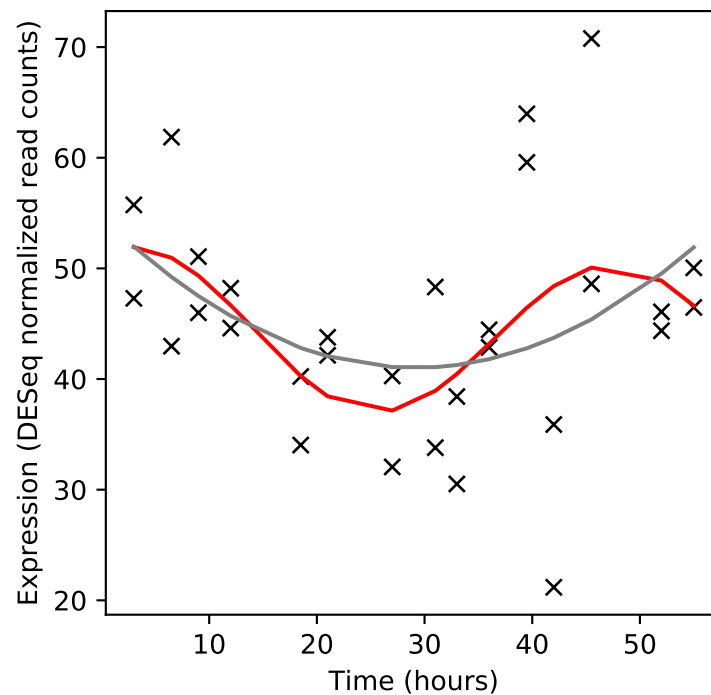
Rv2644c/-



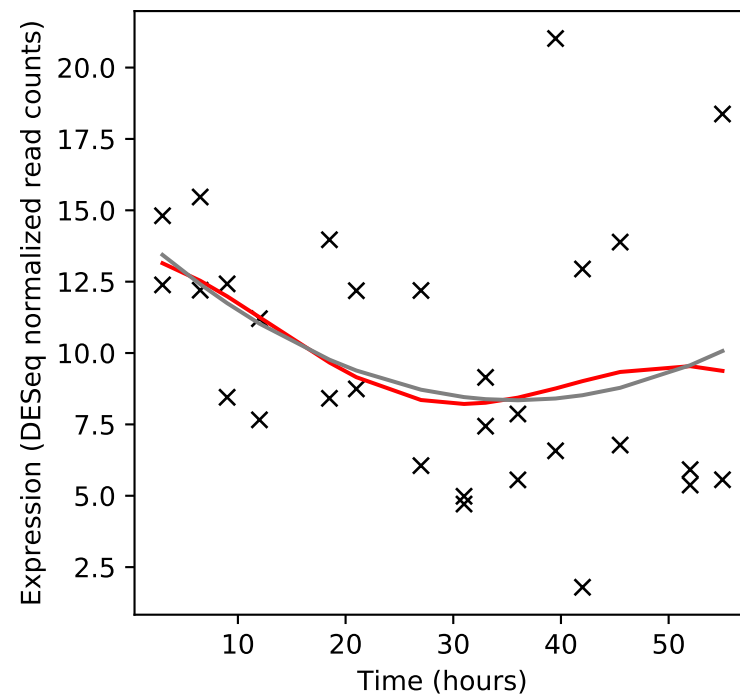
Rv2645/-



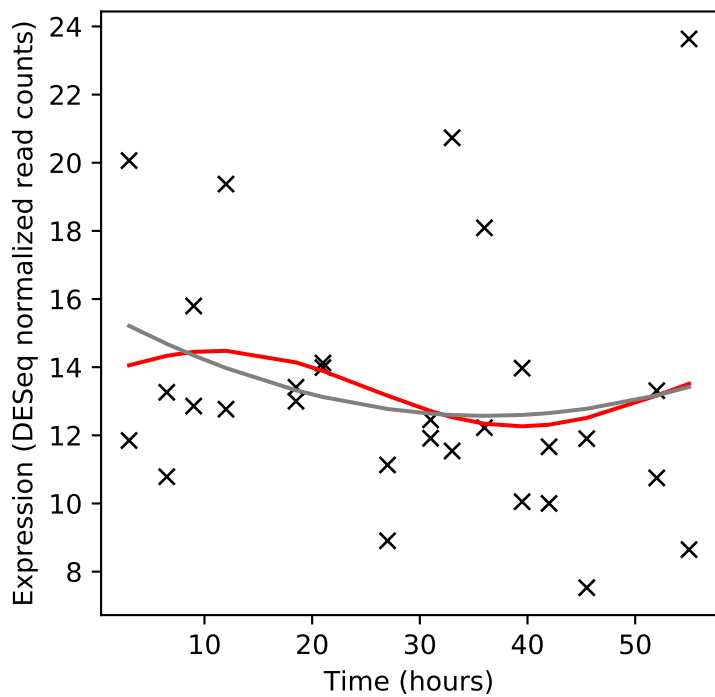
Rv2646/-



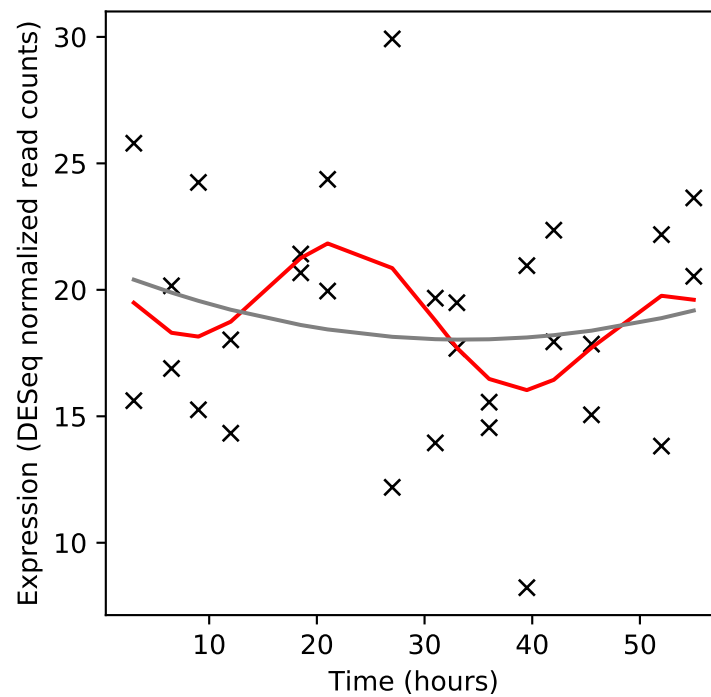
Rv2647/-



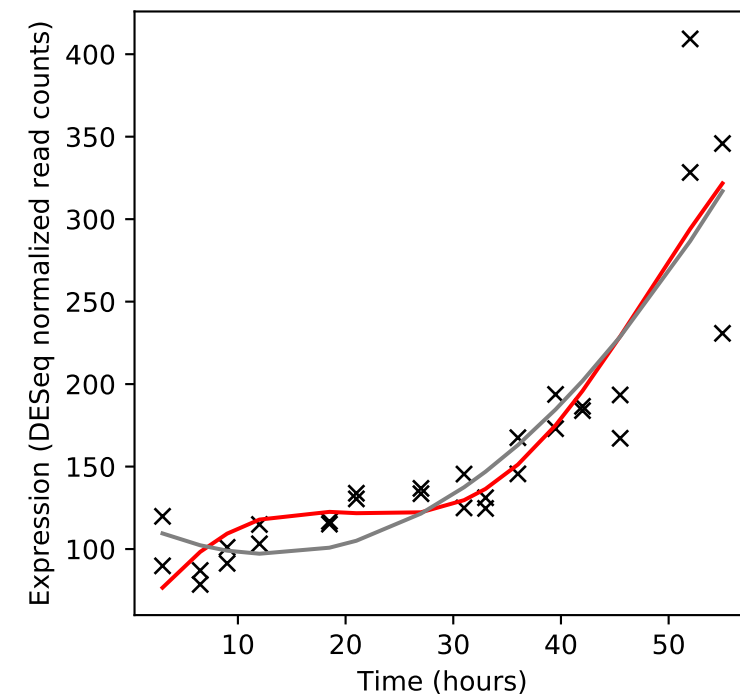
Rv2648/-



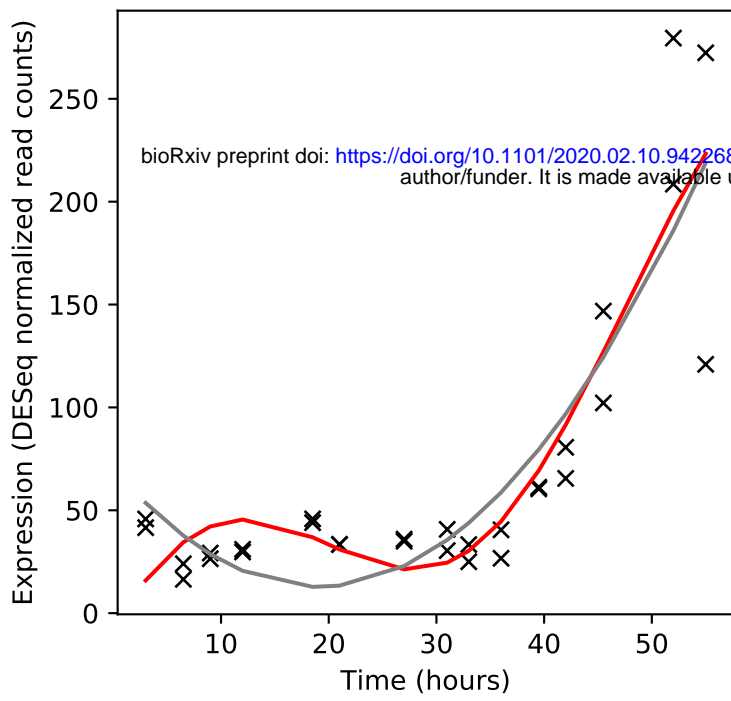
Rv2649/-



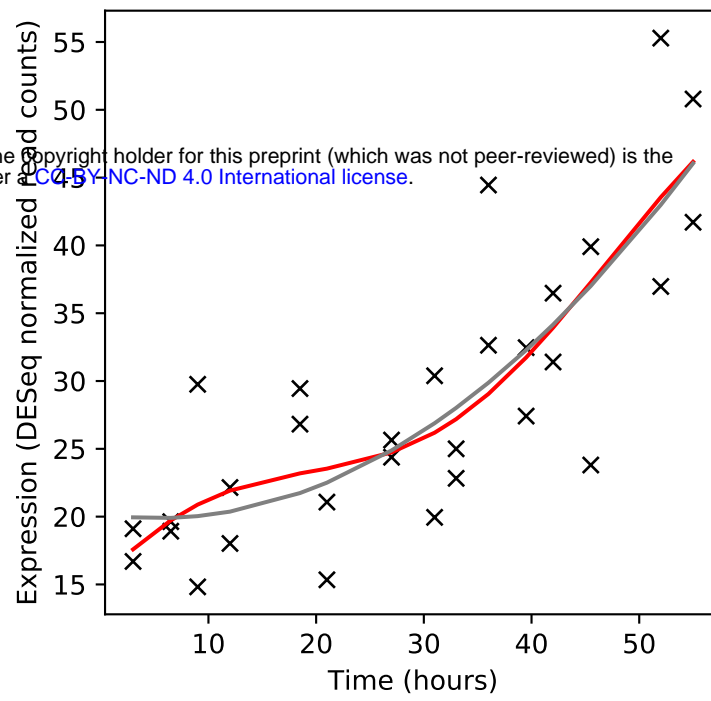
Rv2650c/-



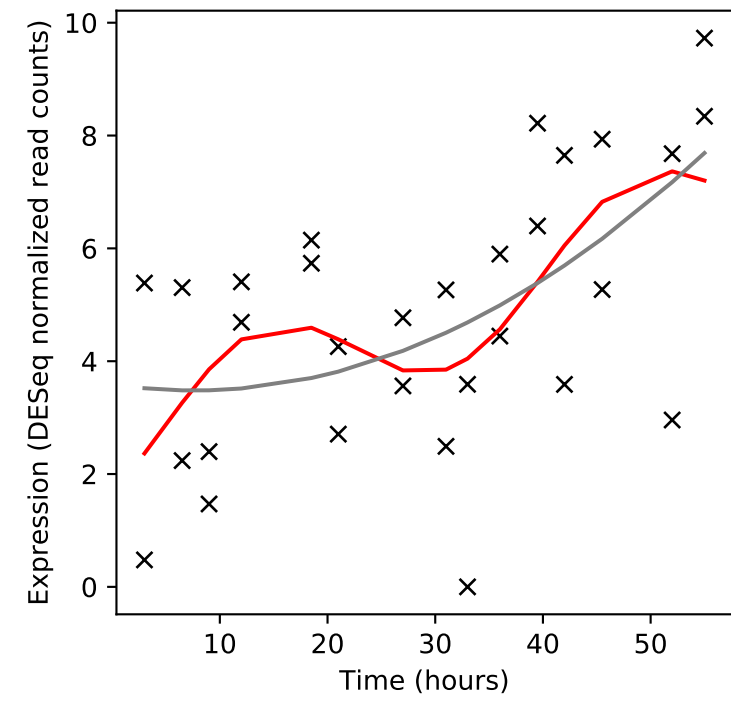
Rv2651c/-



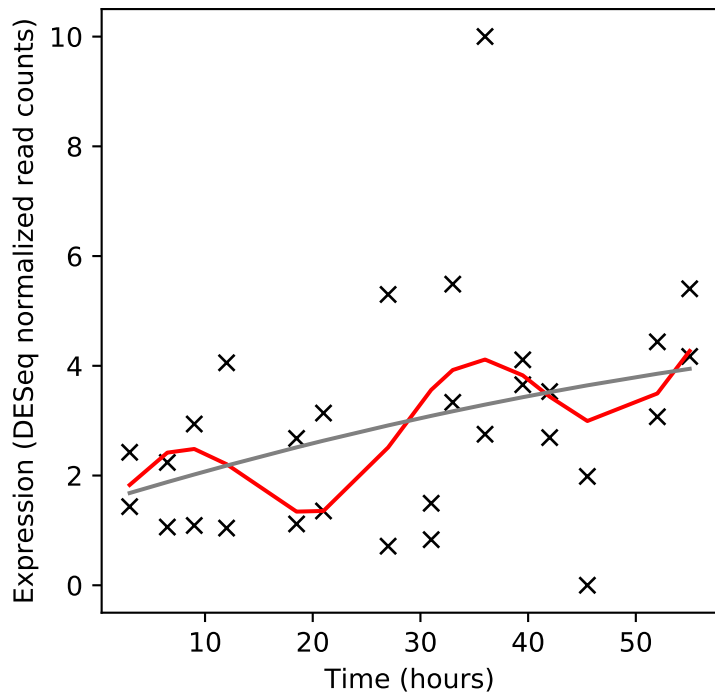
Rv2652c/-



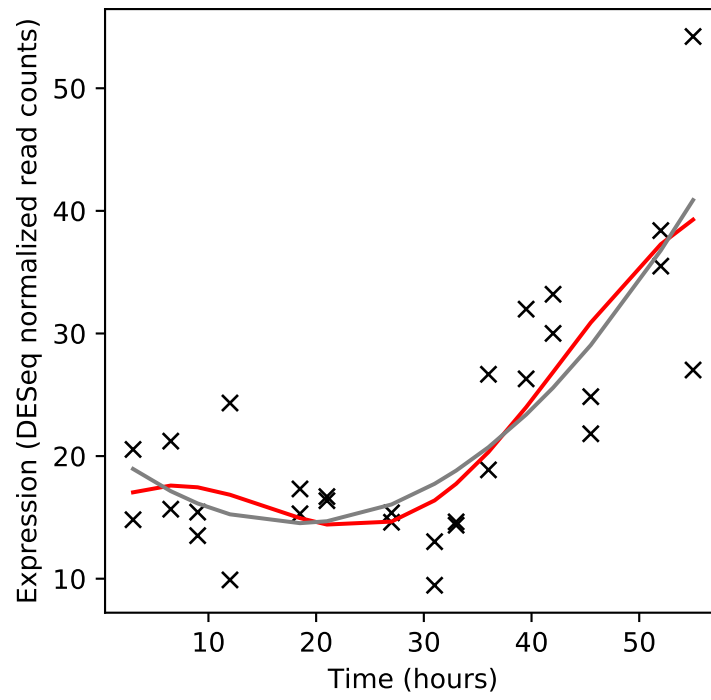
Rv2653c/-



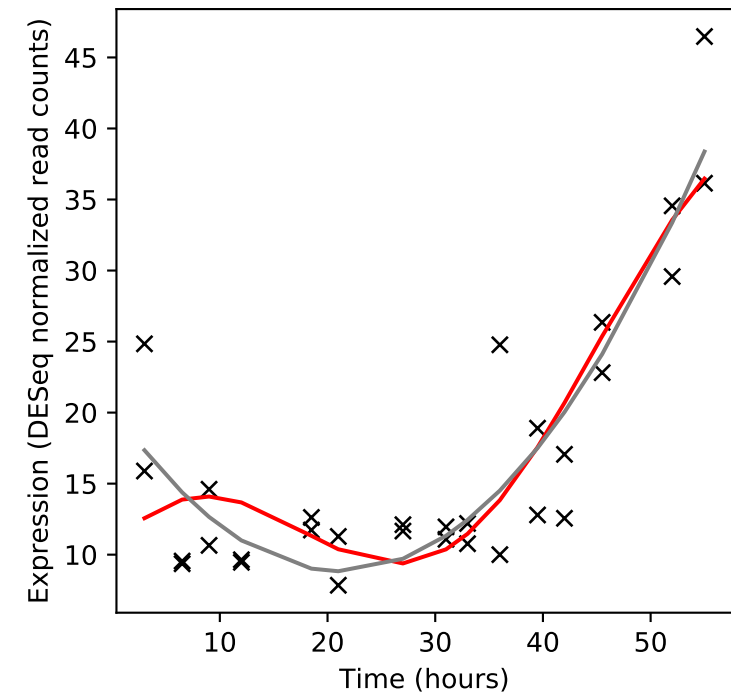
Rv2654c/-



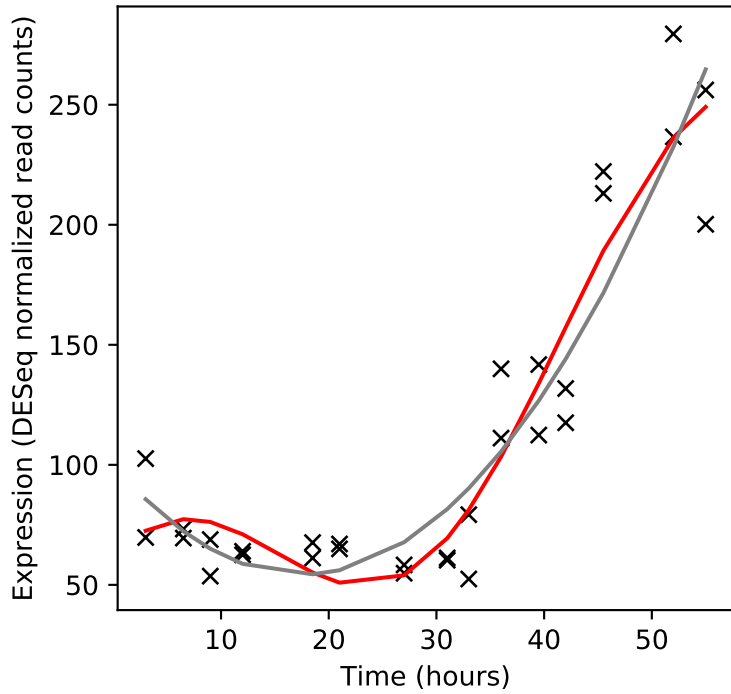
Rv2655c/-



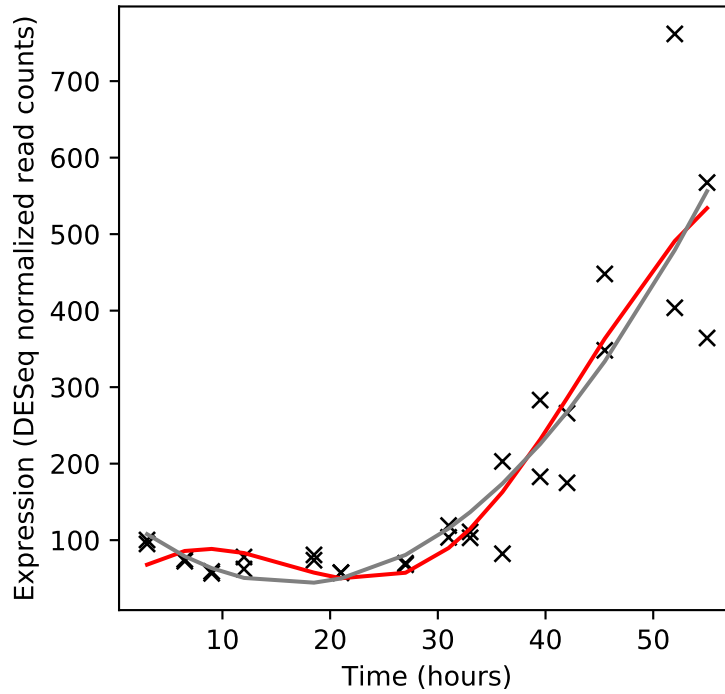
Rv2656c/-



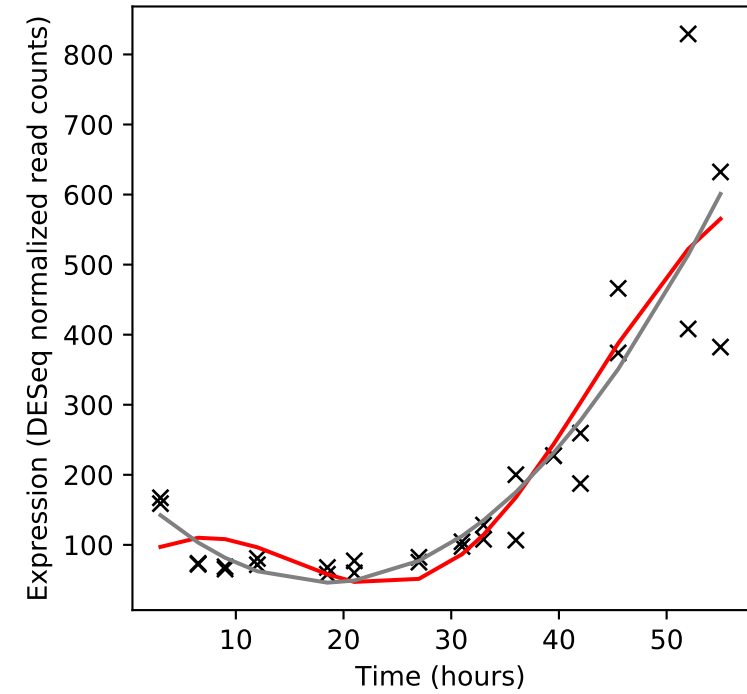
Rv2657c/-

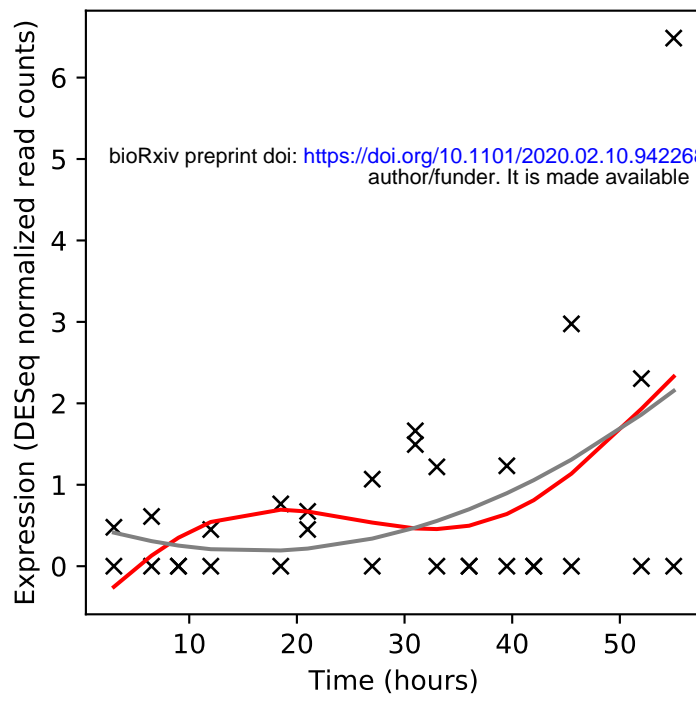
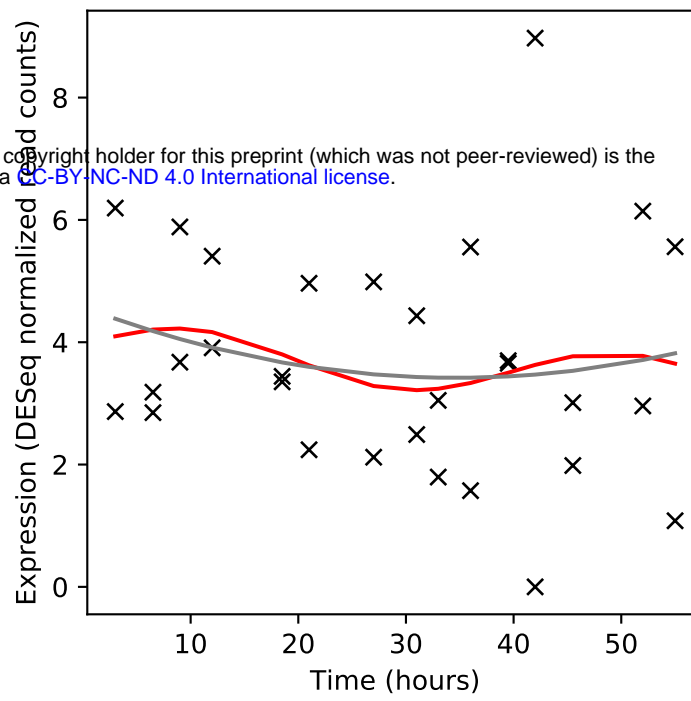
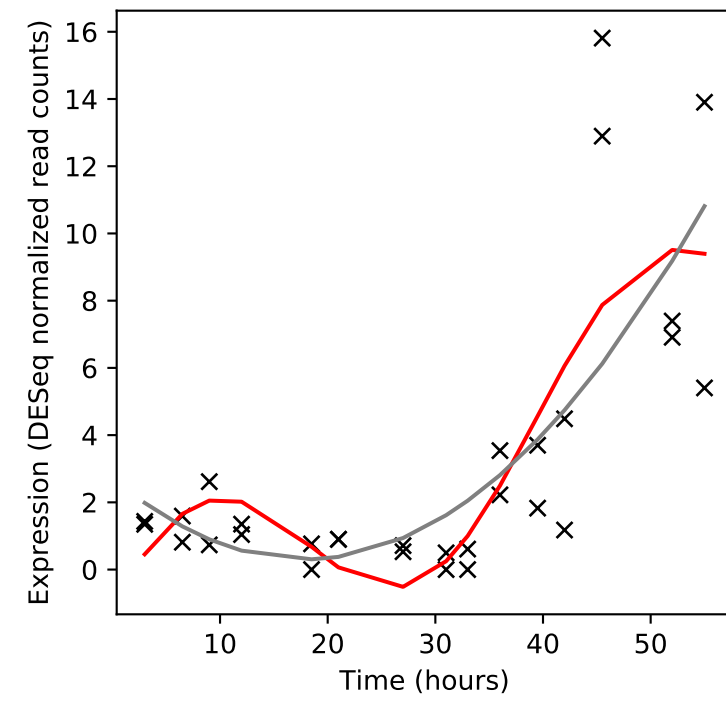
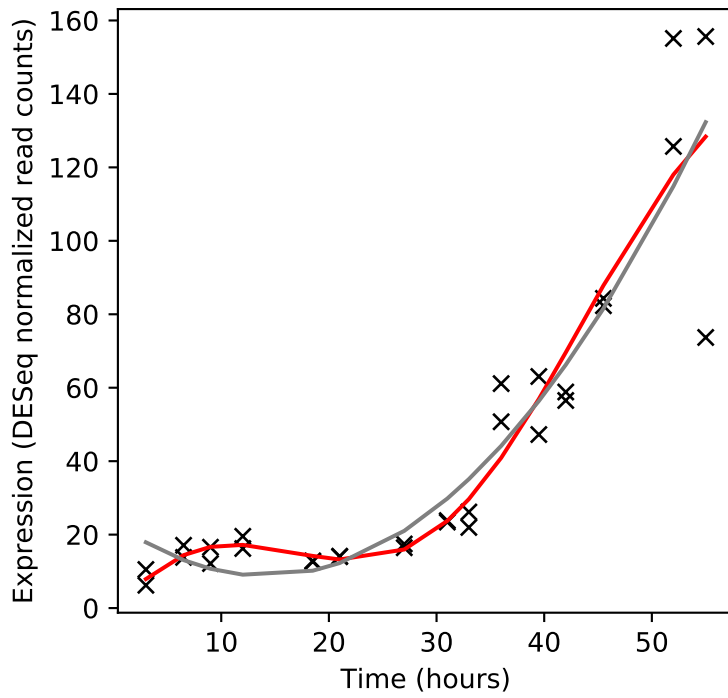
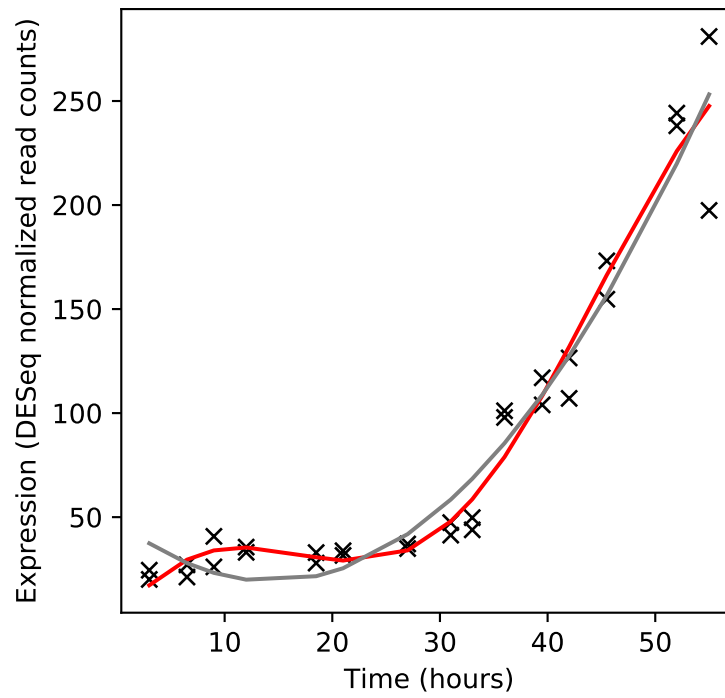
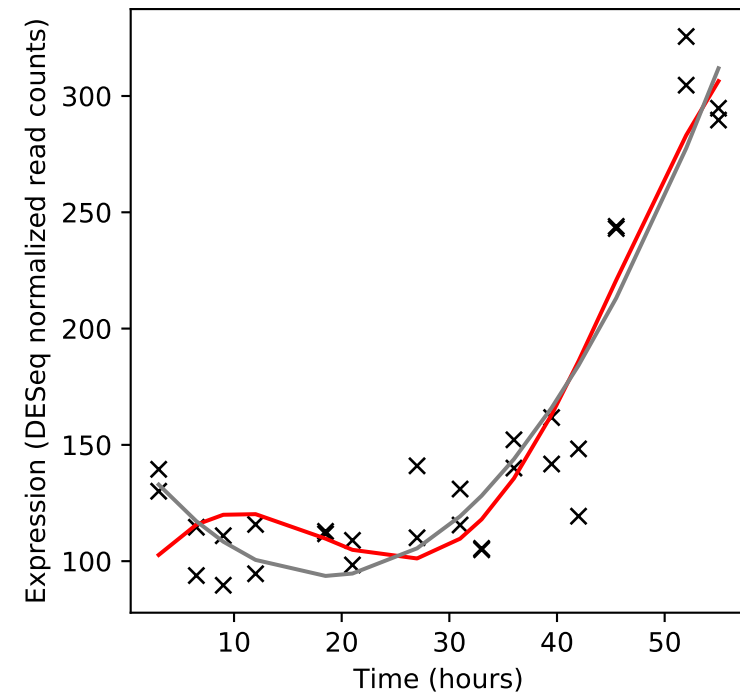
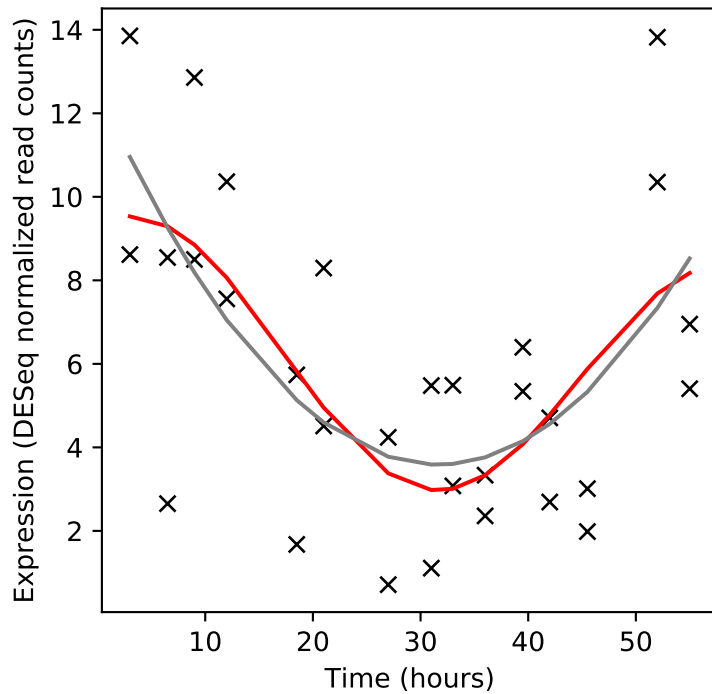
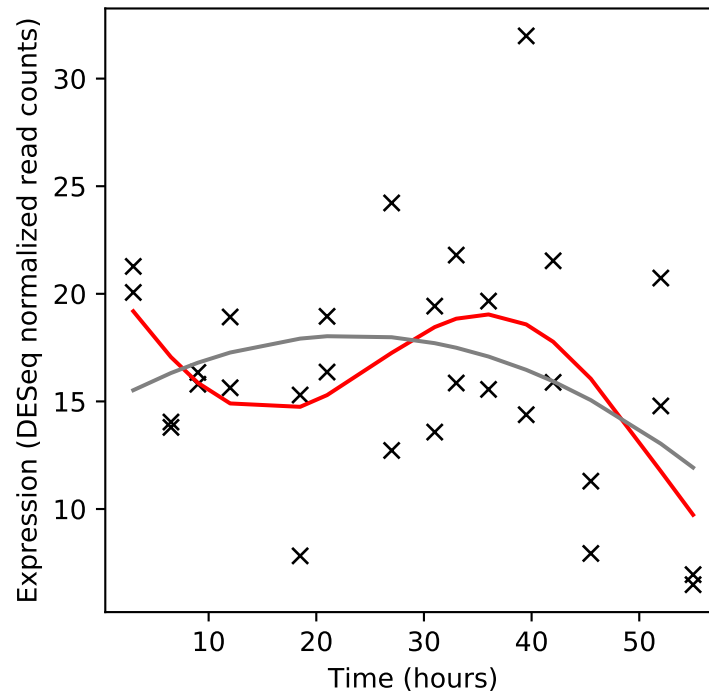
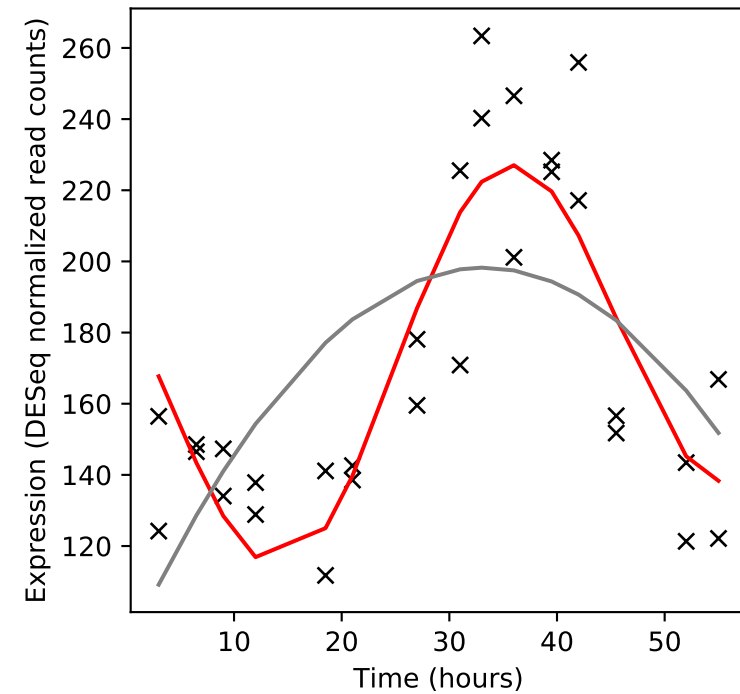


Rv2658c/-

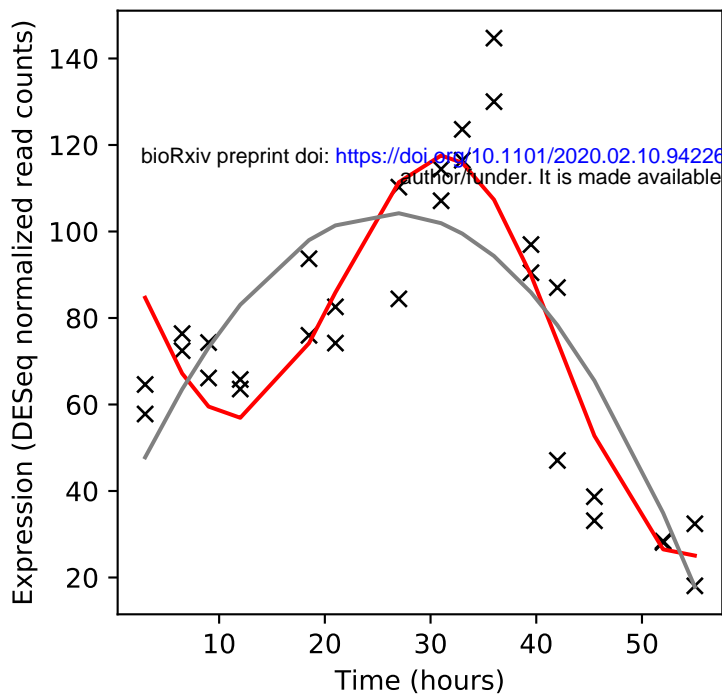


Rv2659c/-

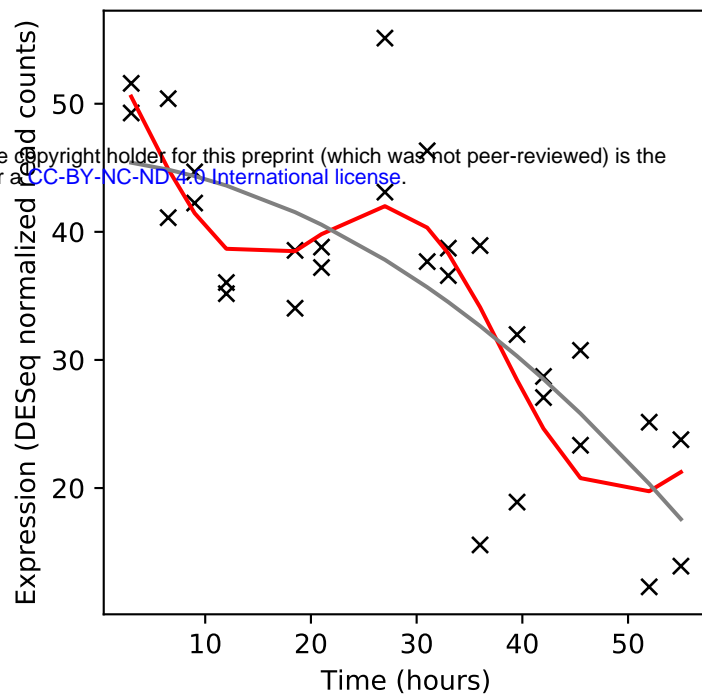


Rv2660c/-**Rv2661c/-****Rv2662/-****Rv2663/-****Rv2664/-****Rv2665/-****Rv2666/-****Rv2667/clpC2****Rv2668/-**

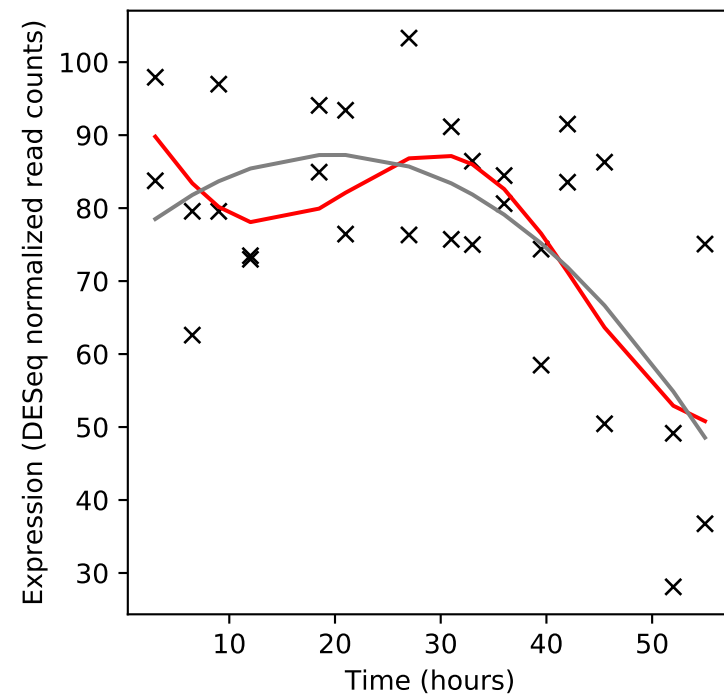
Rv2669/-



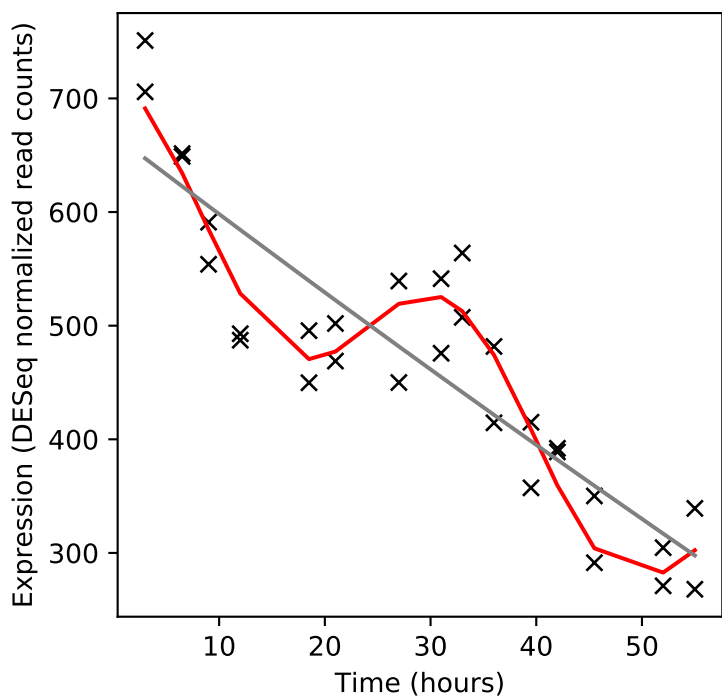
Rv2670c/-



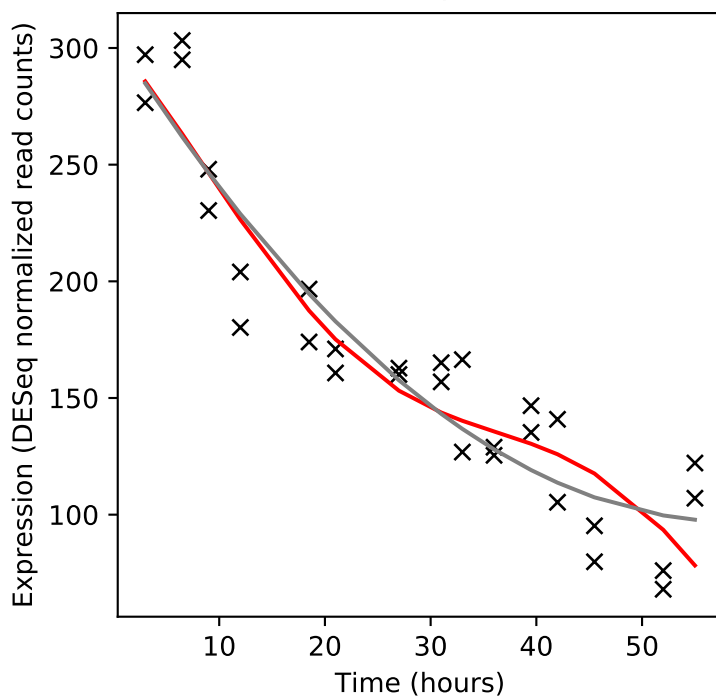
Rv2671/ribD



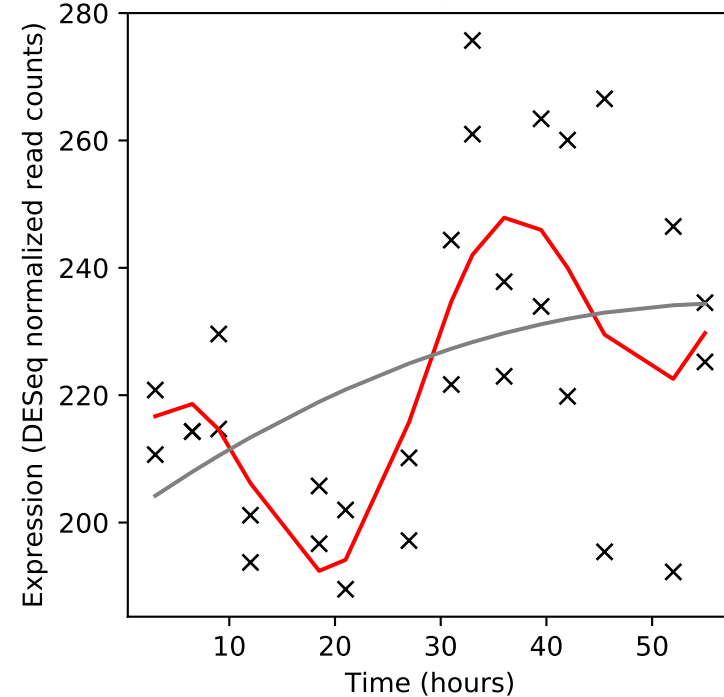
Rv2672/-



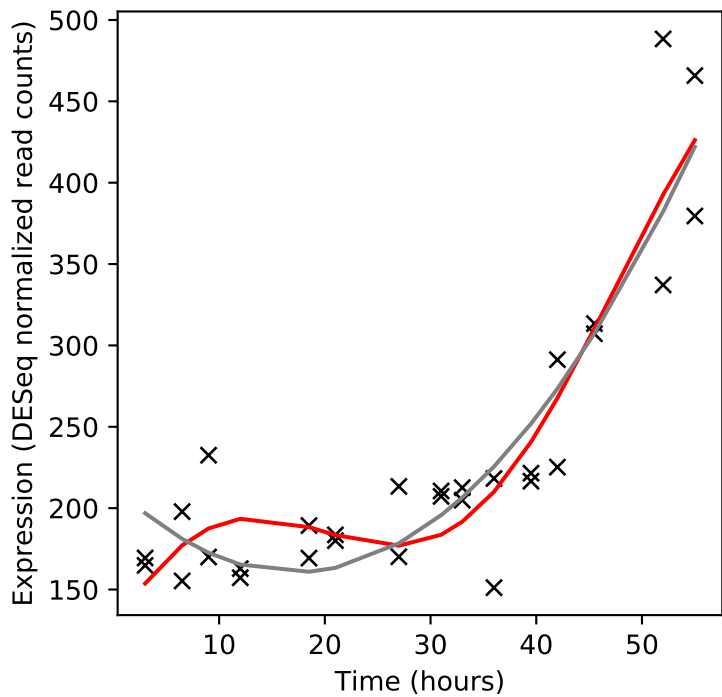
Rv2673/aftC



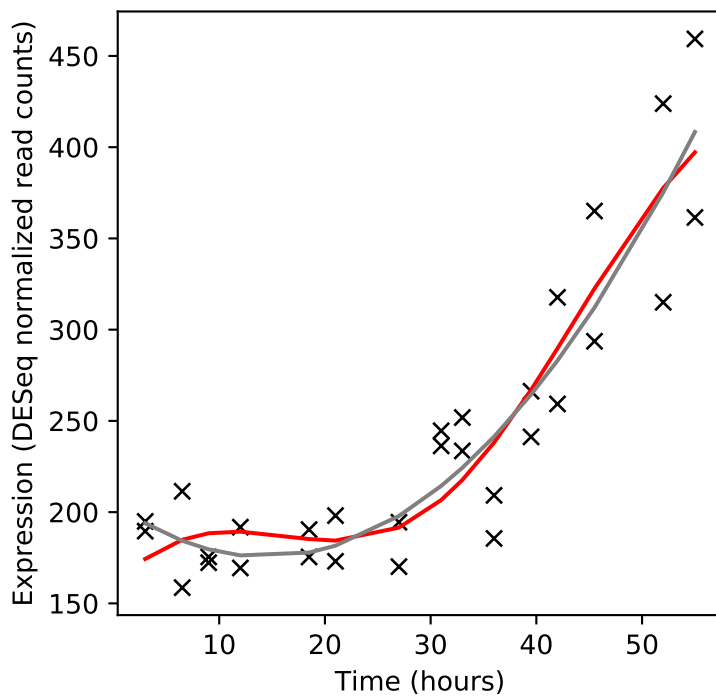
Rv2674/msrB



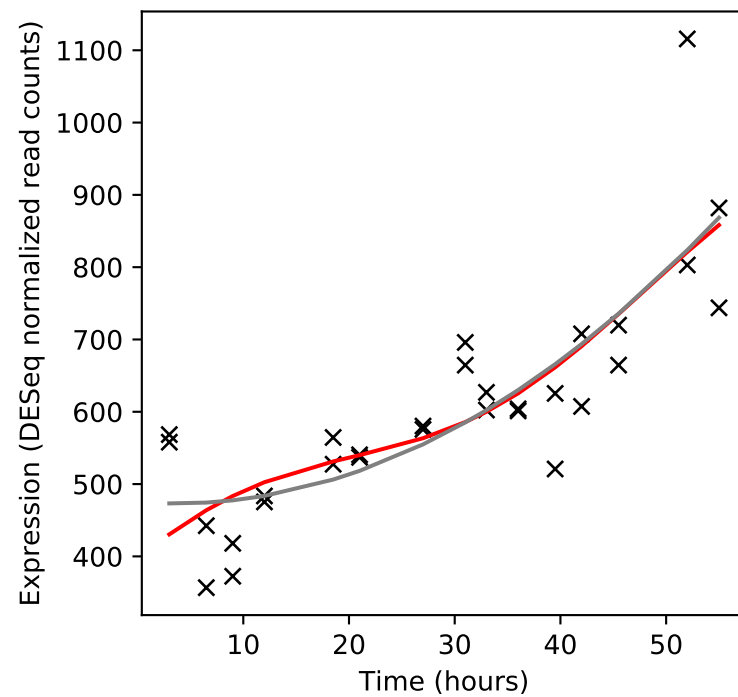
Rv2675c/-



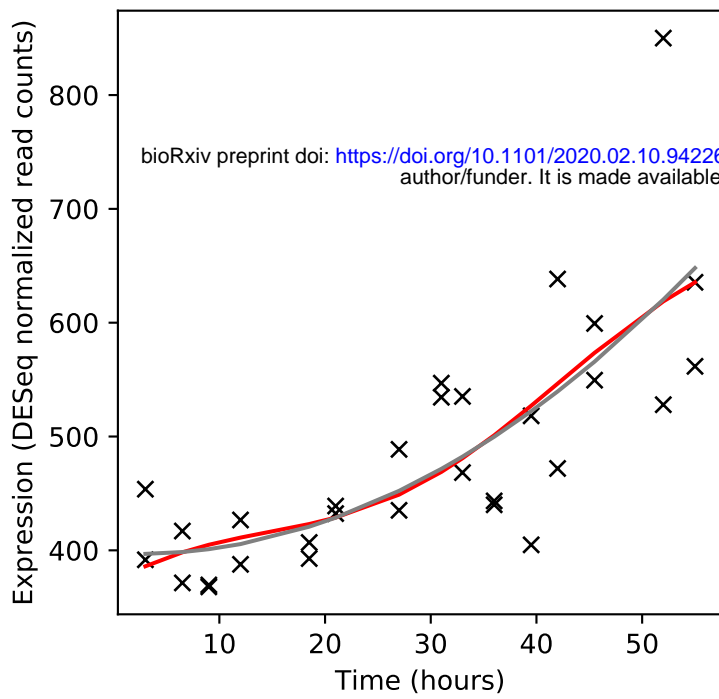
Rv2676c/-



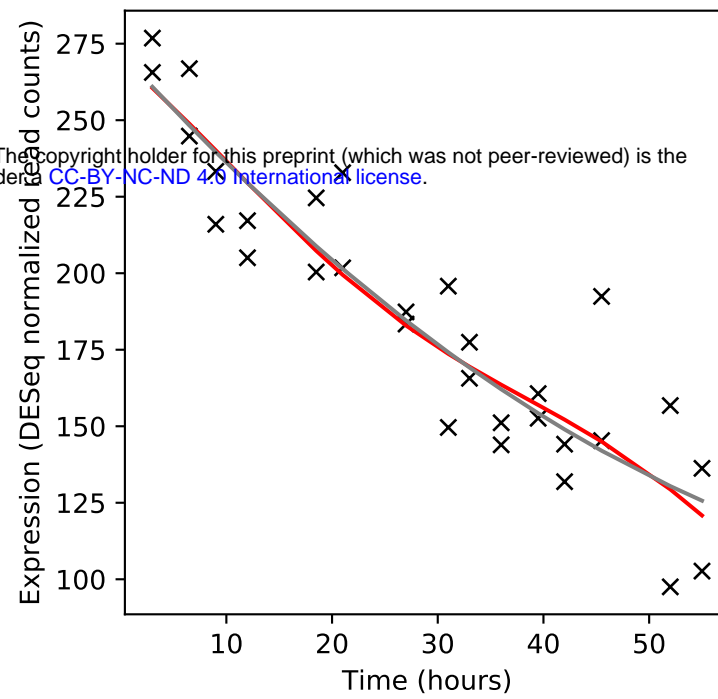
Rv2677c/hemY



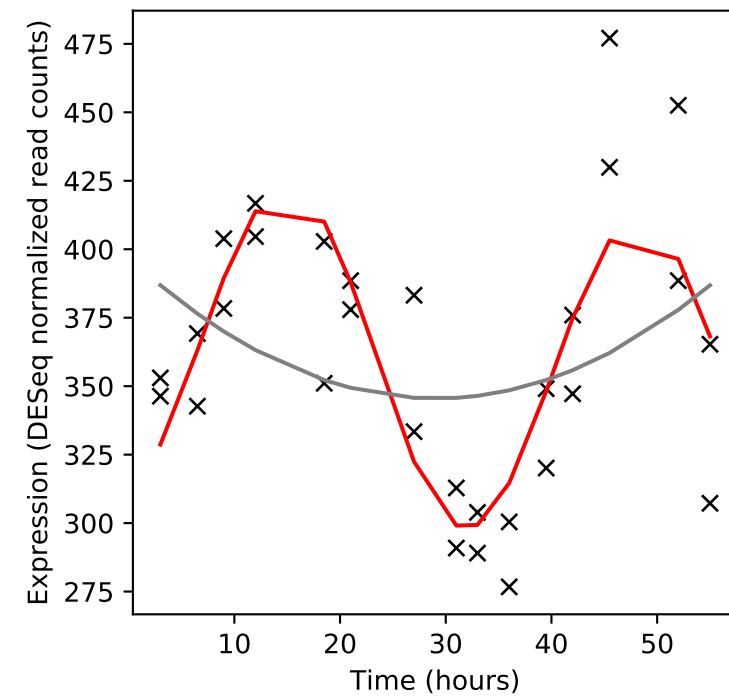
Rv2678c/hemE



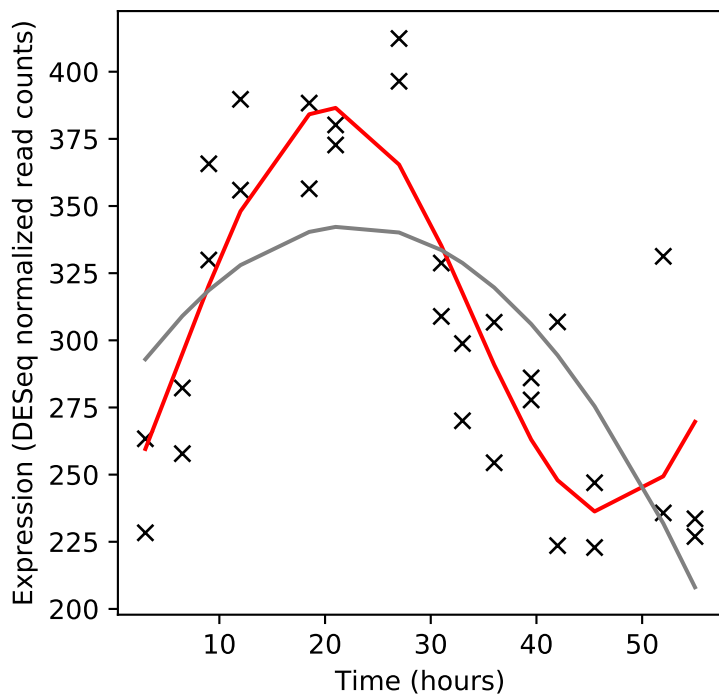
Rv2679/echA15



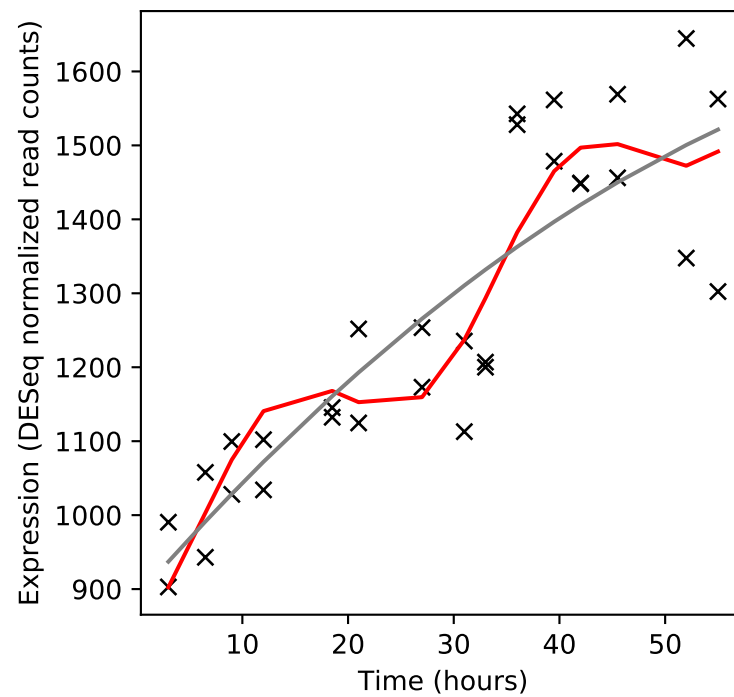
Rv2680/-



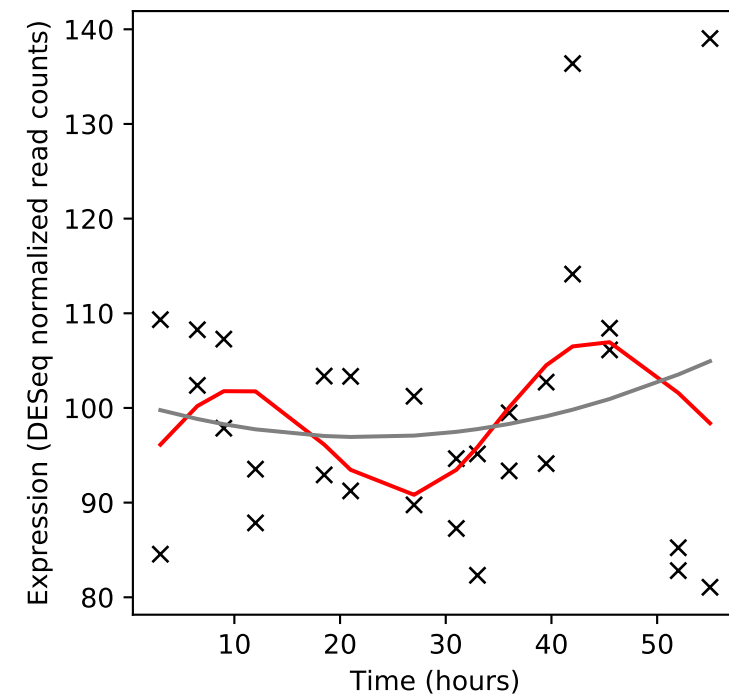
Rv2681/-



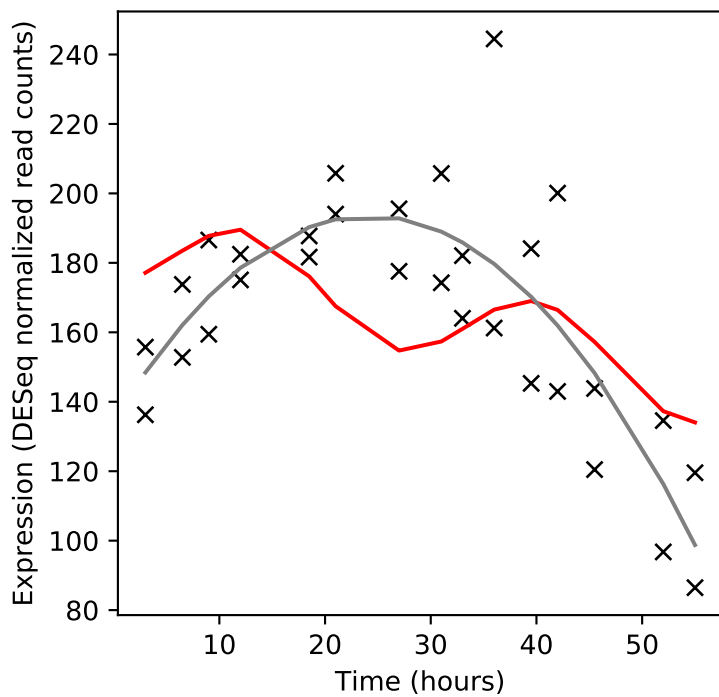
Rv2682c/dxs1



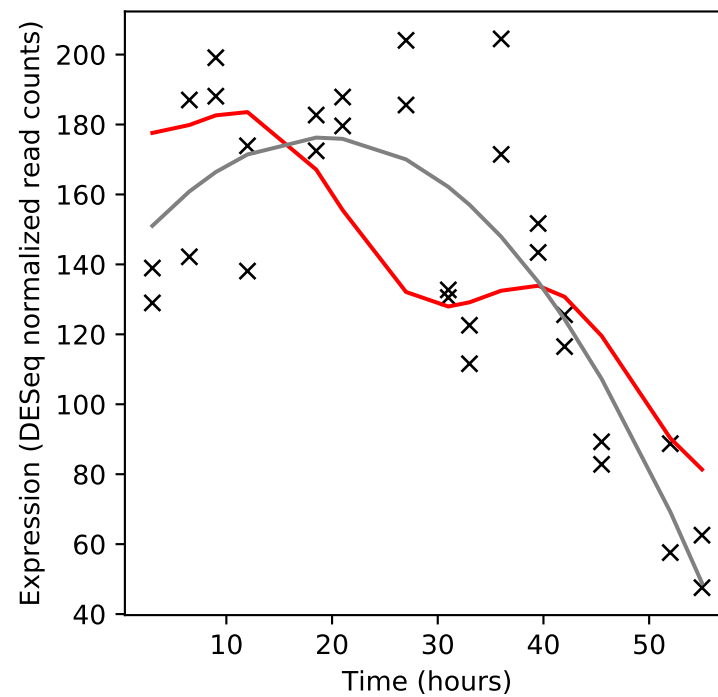
Rv2683/-



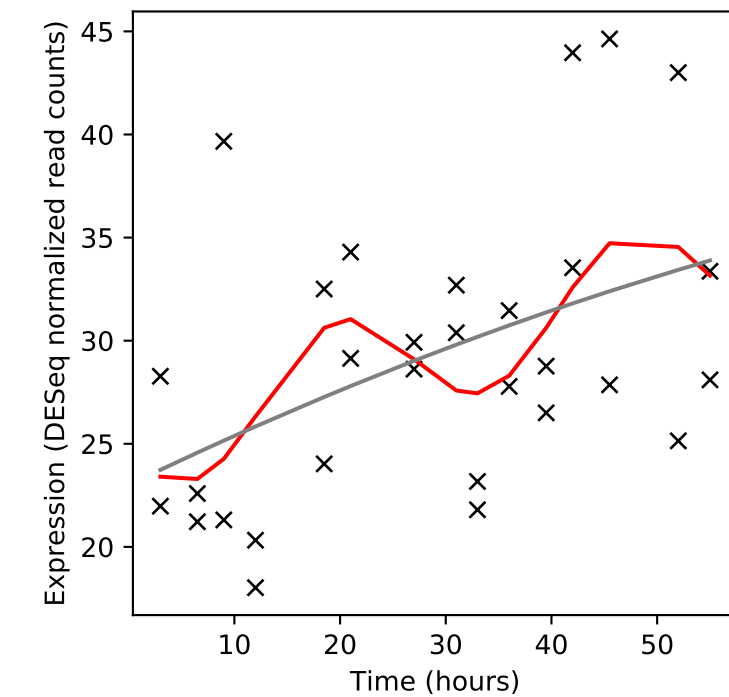
Rv2684/arsA



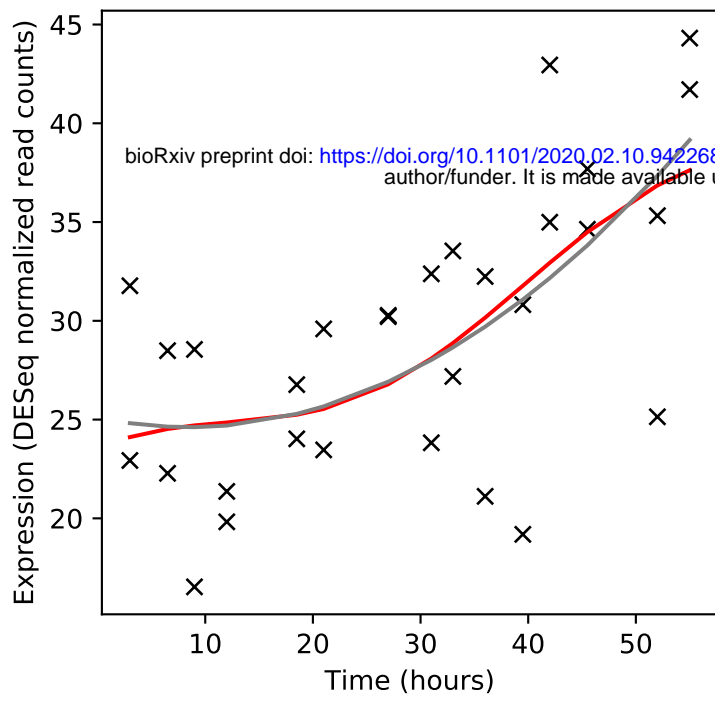
Rv2685/arsB1



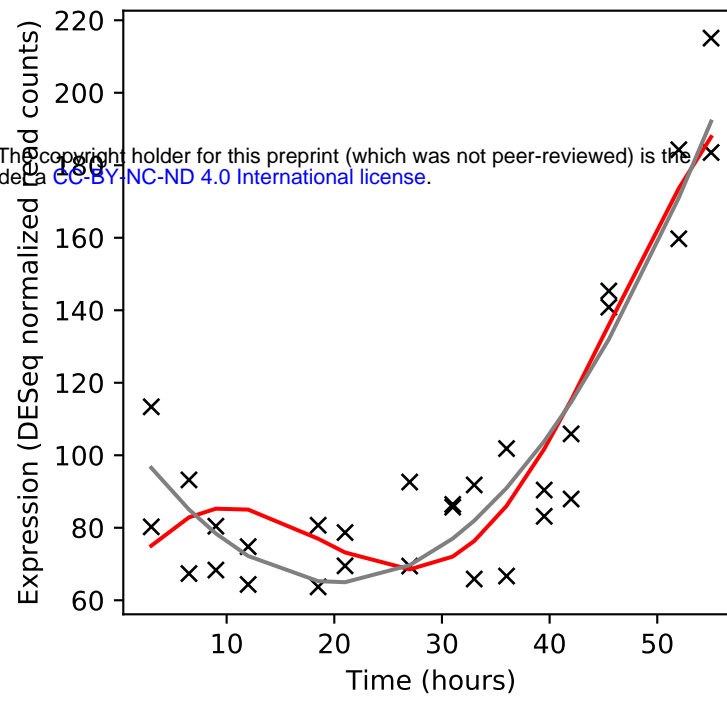
Rv2686c/-



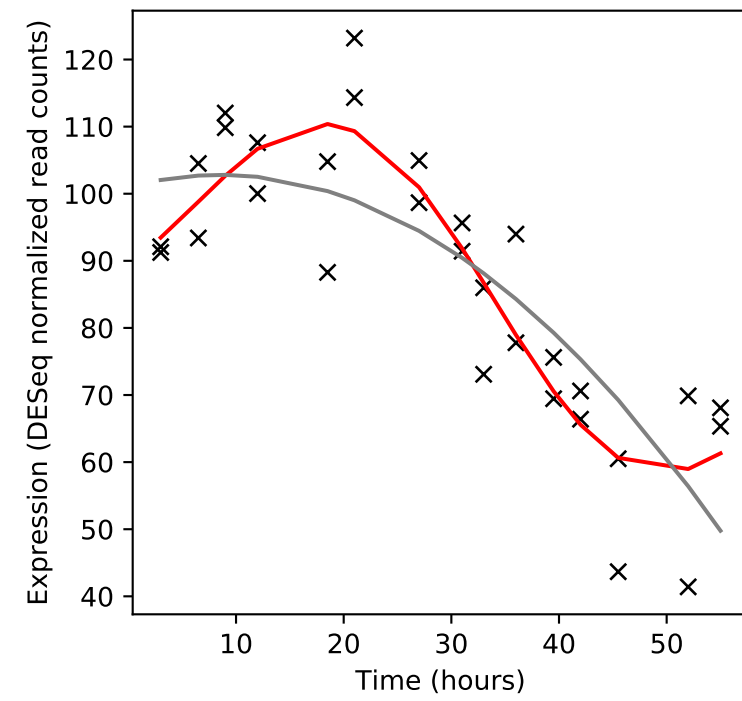
Rv2687c/-



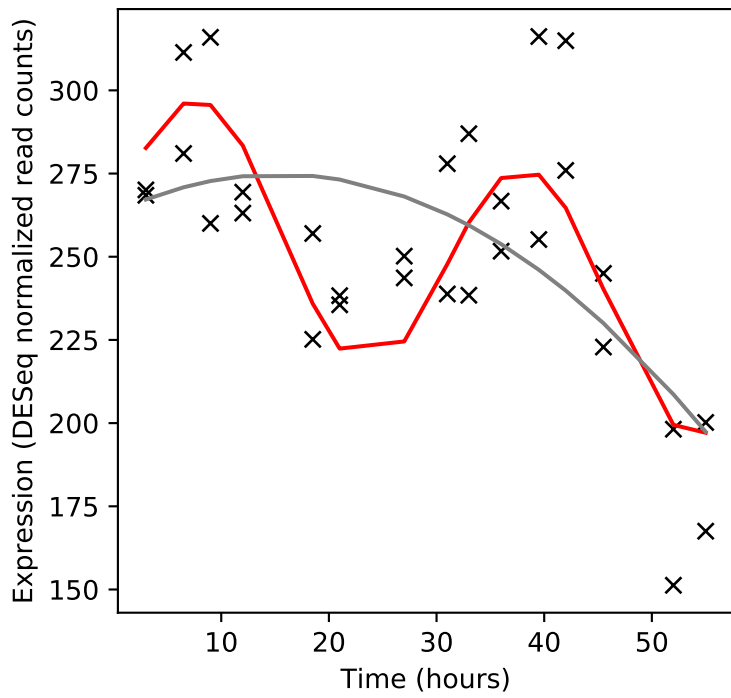
Rv2688c/-



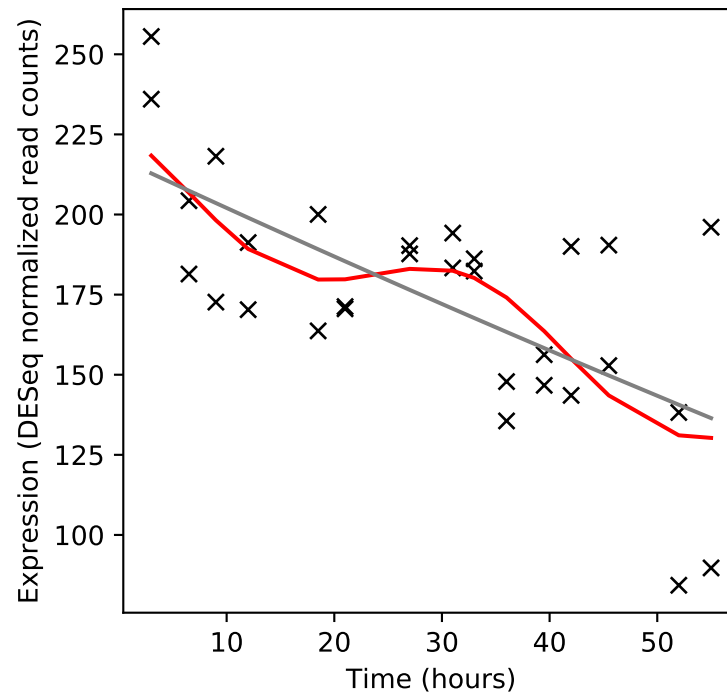
Rv2689c/-



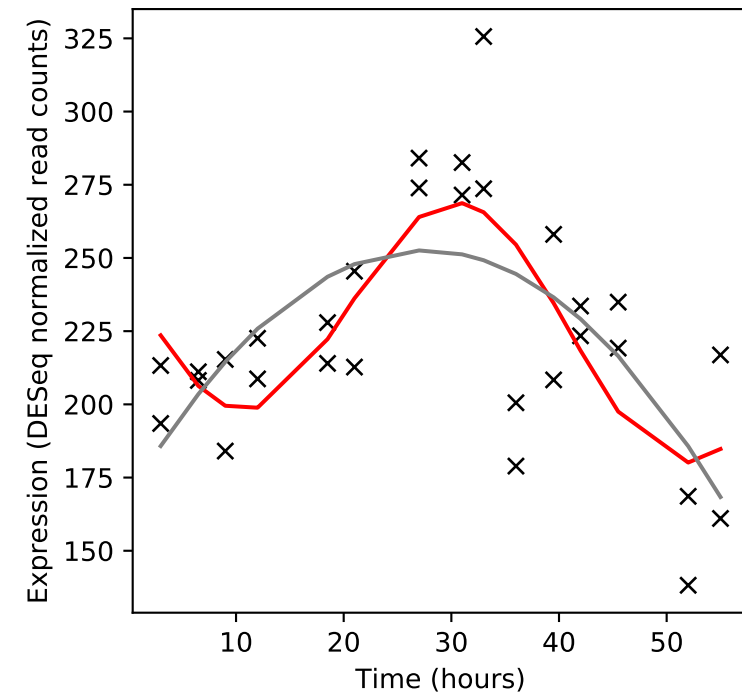
Rv2690c/-



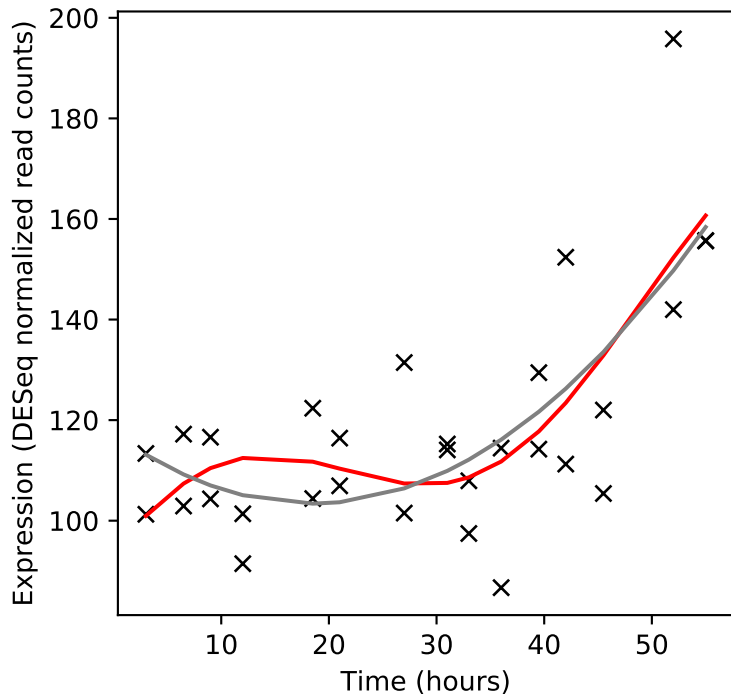
Rv2691/ceoB



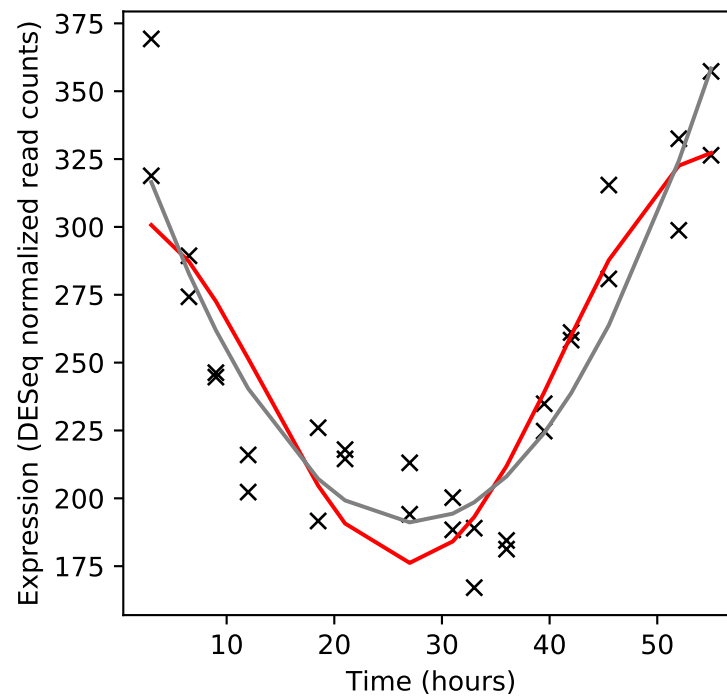
Rv2692/ceoC



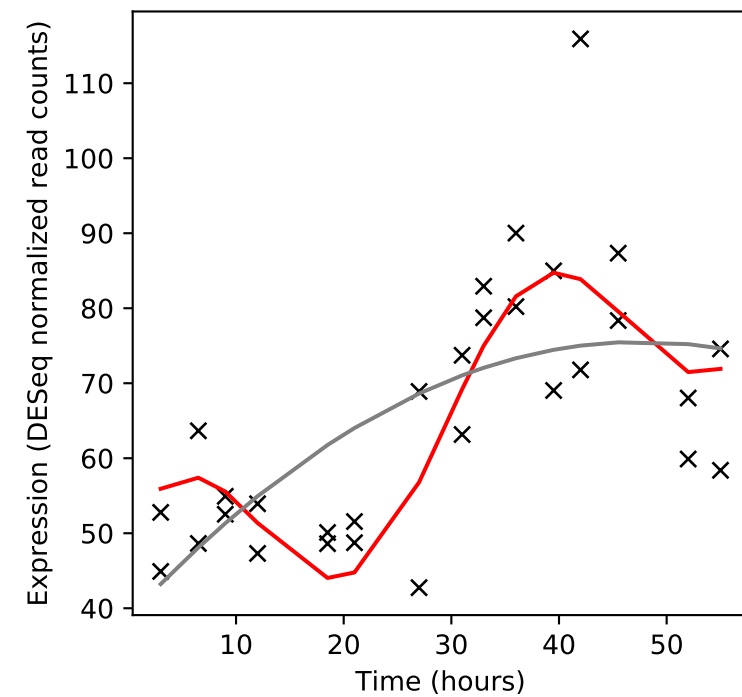
Rv2693c/-



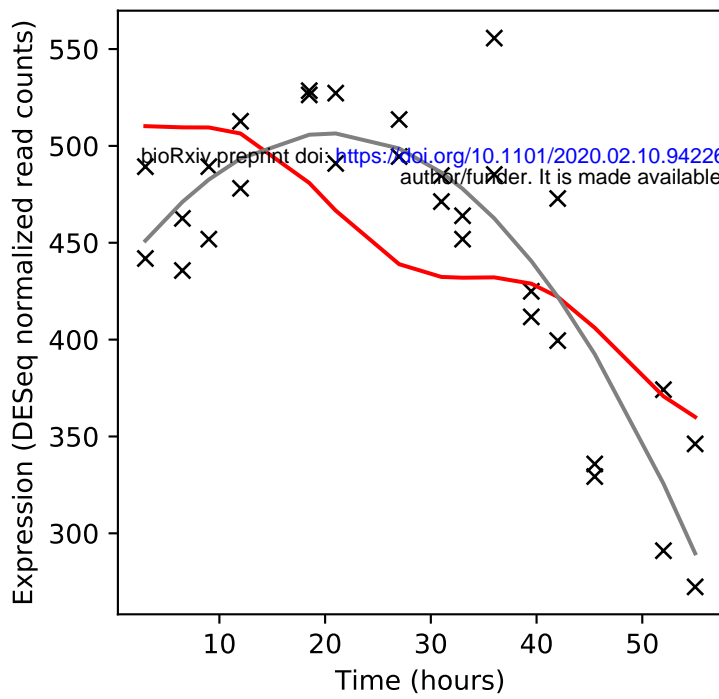
Rv2694c/-



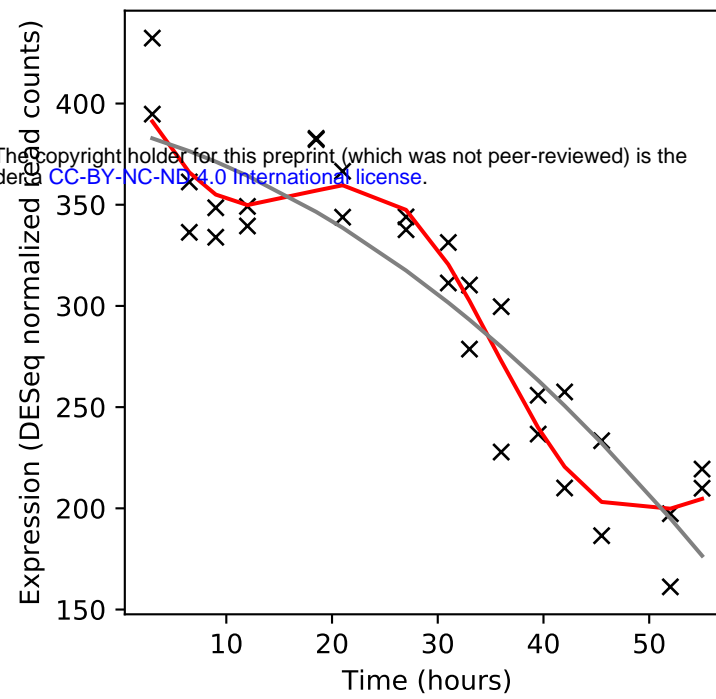
Rv2695/-



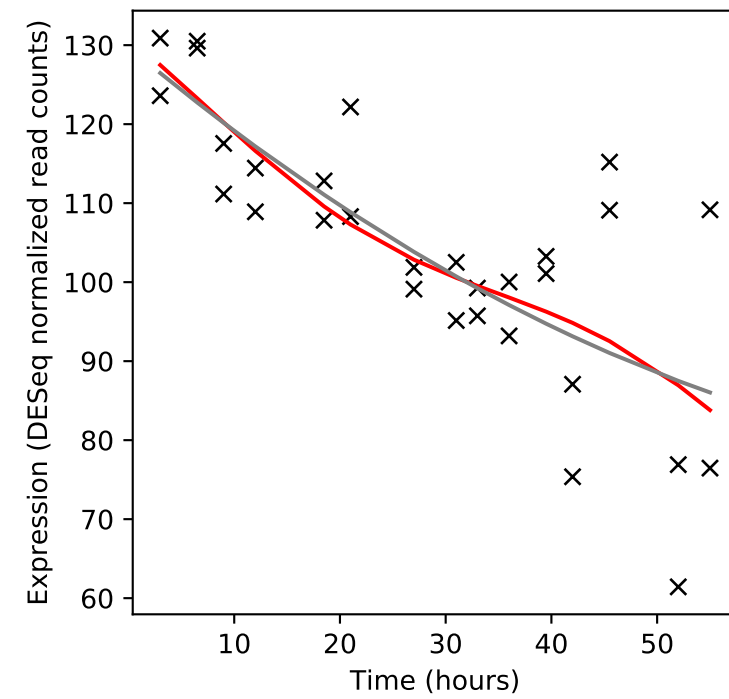
Rv2696c/-



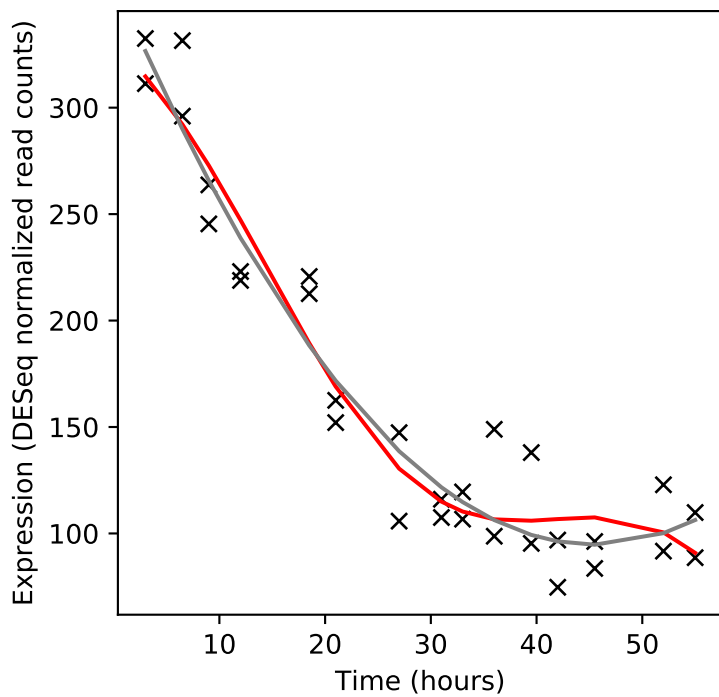
Rv2697c/dut



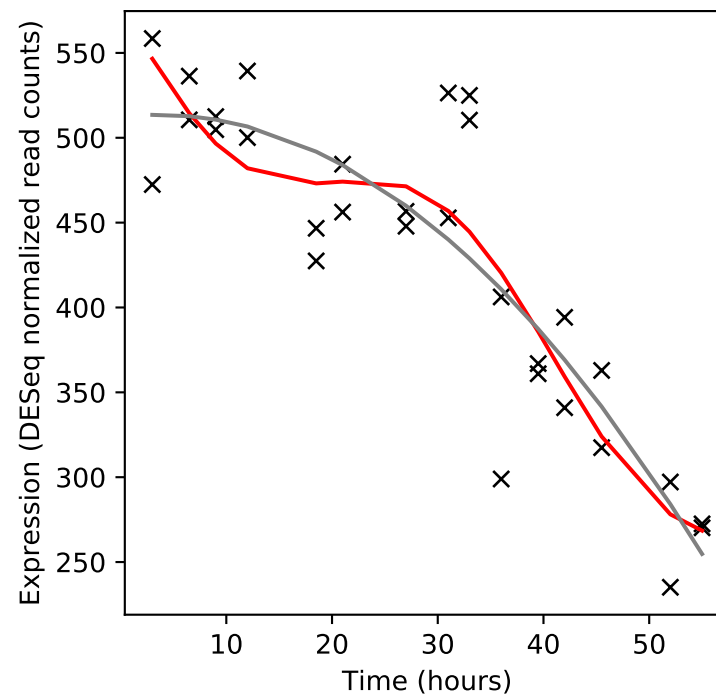
Rv2698/-



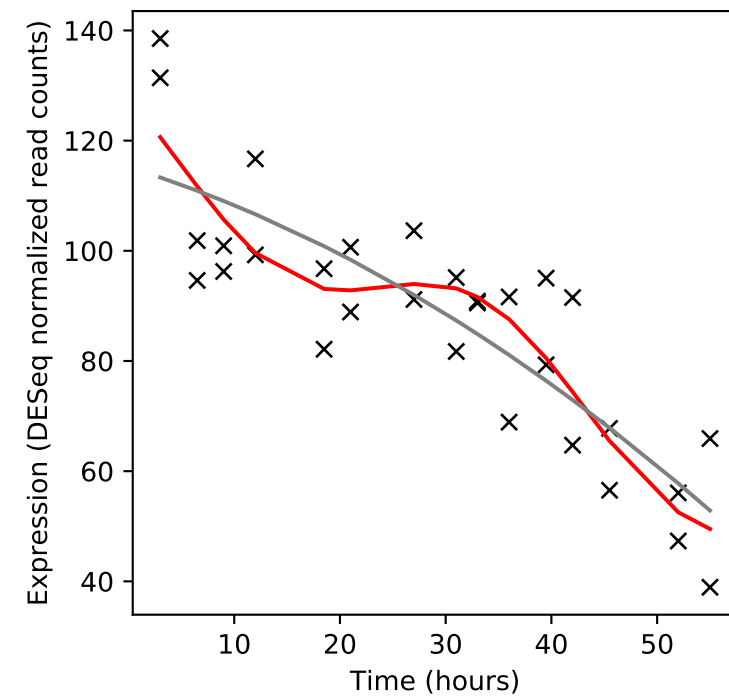
Rv2699c/-



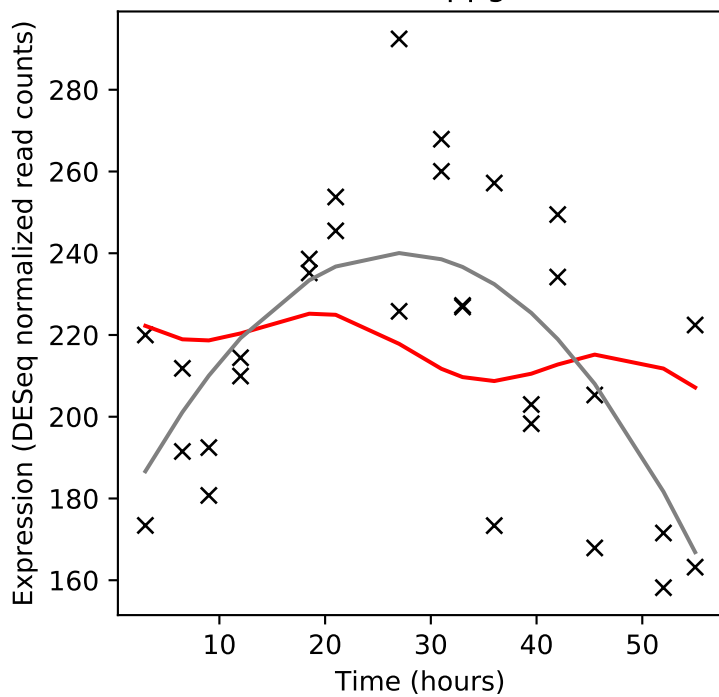
Rv2700/-



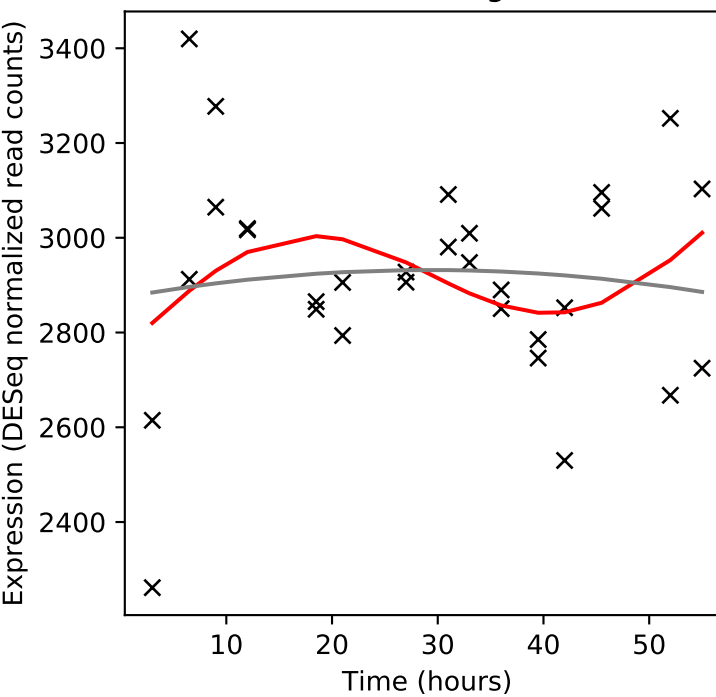
Rv2701c/suhB



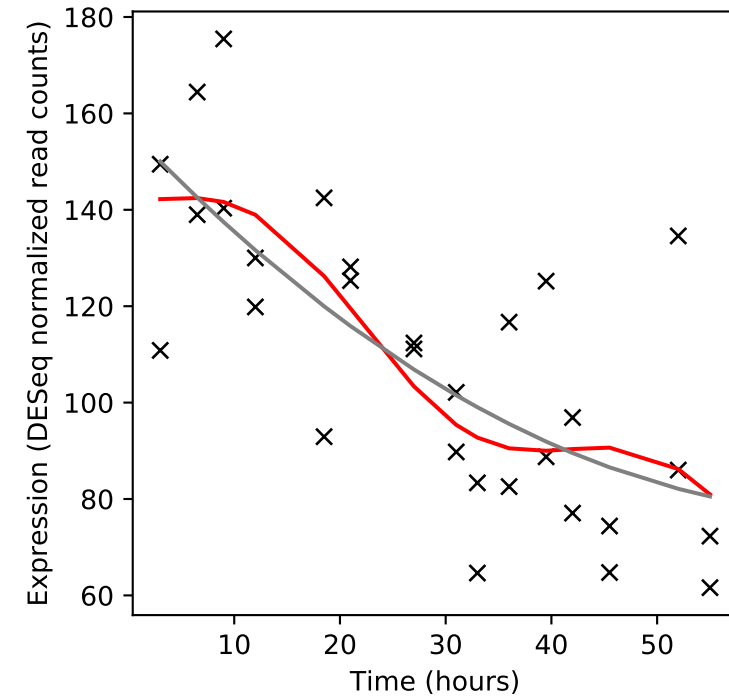
Rv2702/ppgK



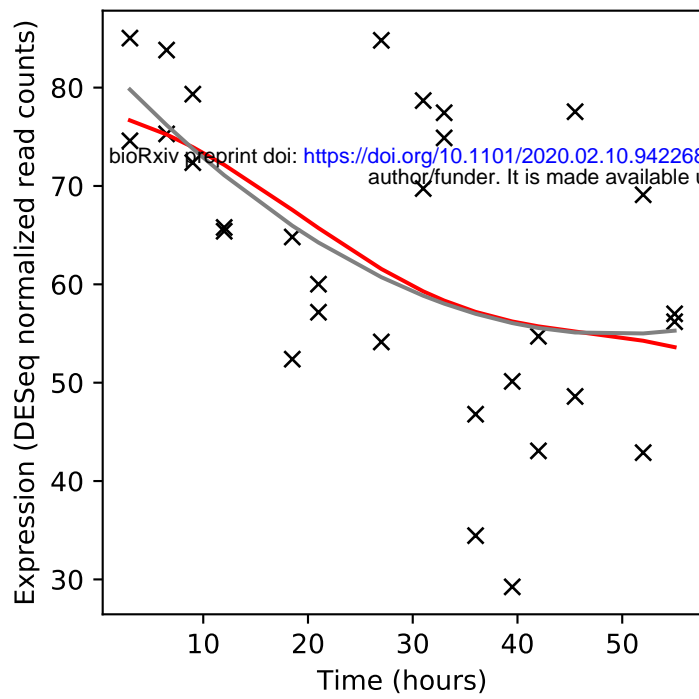
Rv2703/sigA



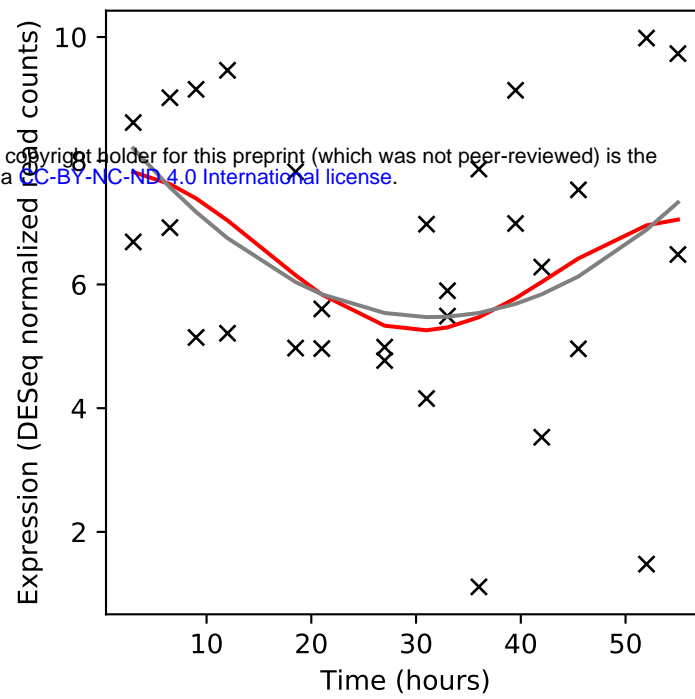
Rv2704/-



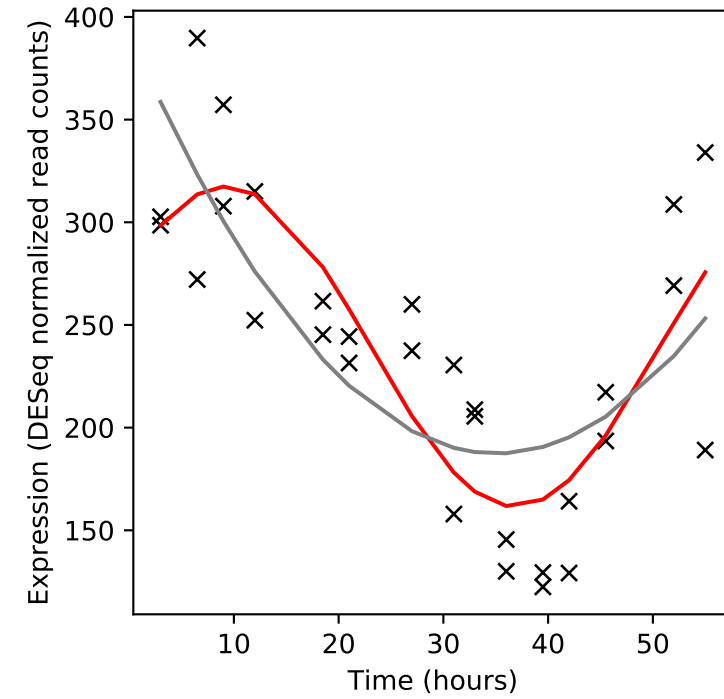
Rv2705c/-



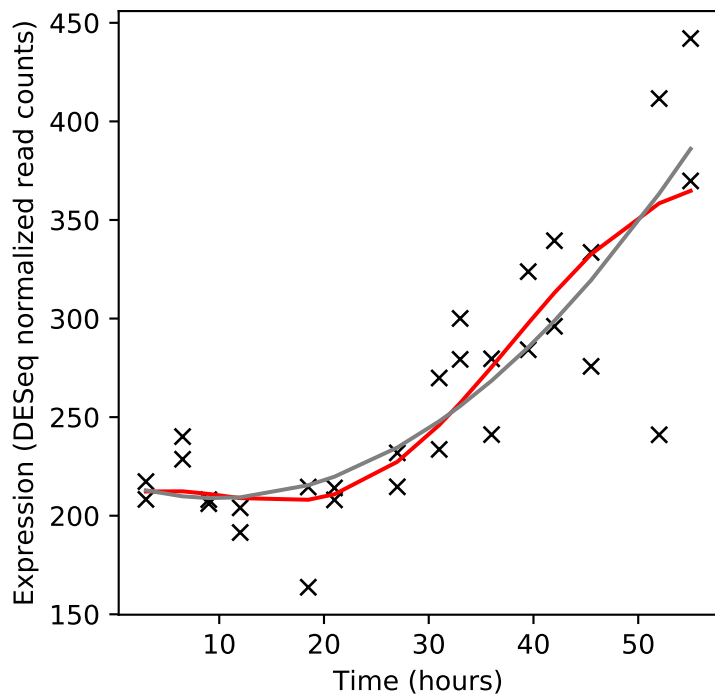
Rv2706c/-



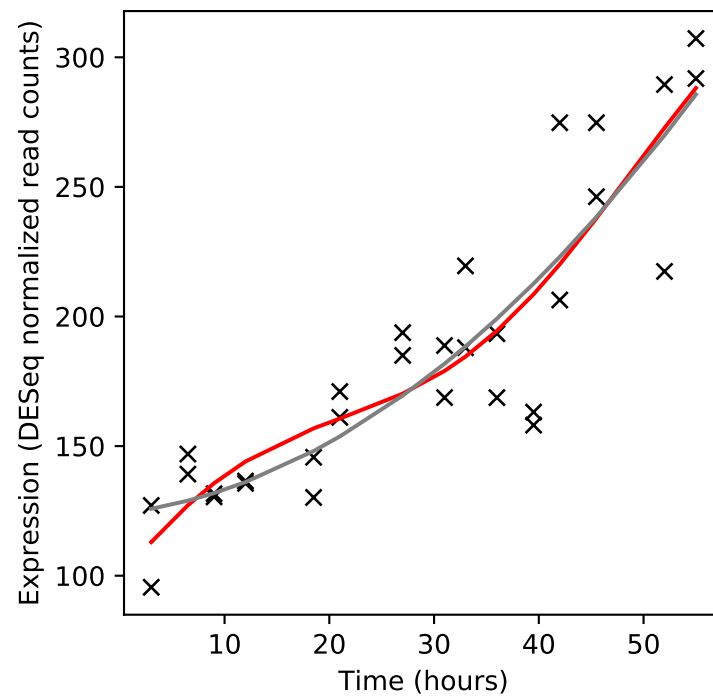
Rv2707/-



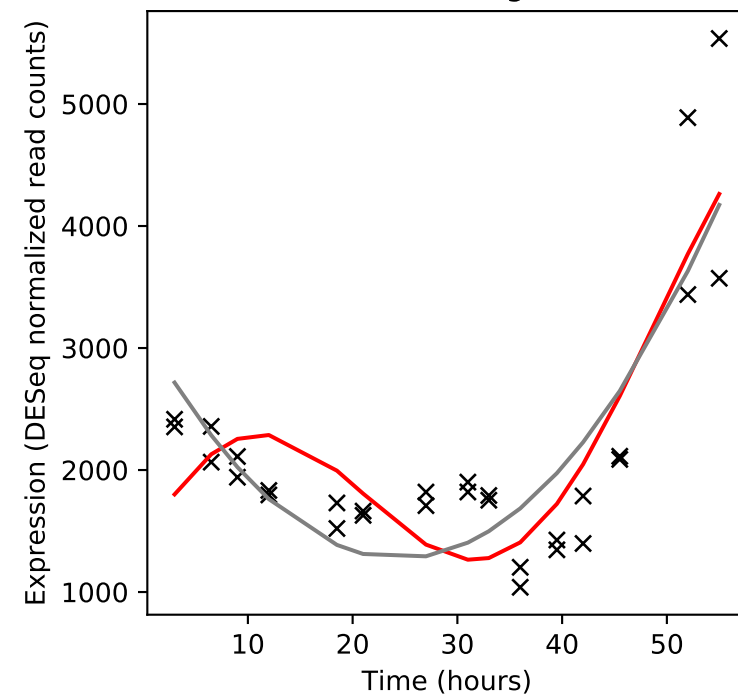
Rv2708c/-



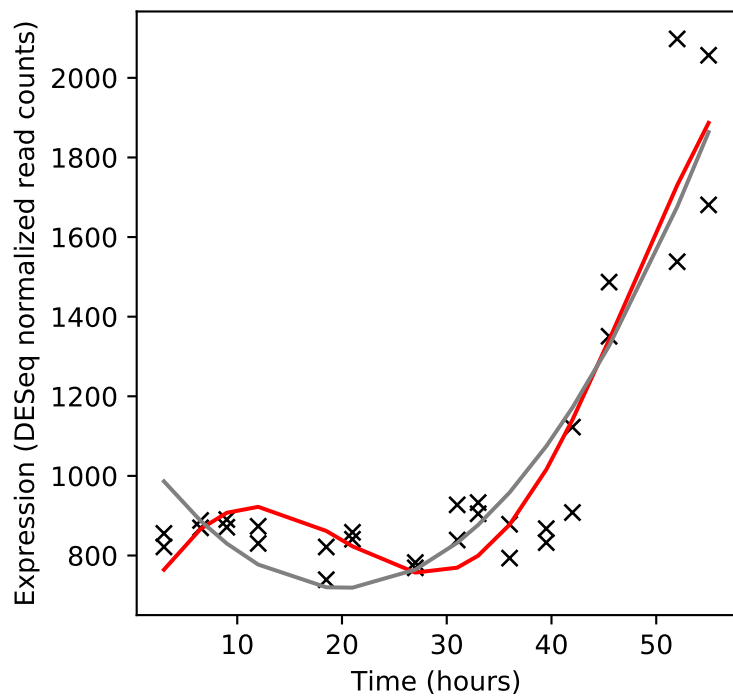
Rv2709/-



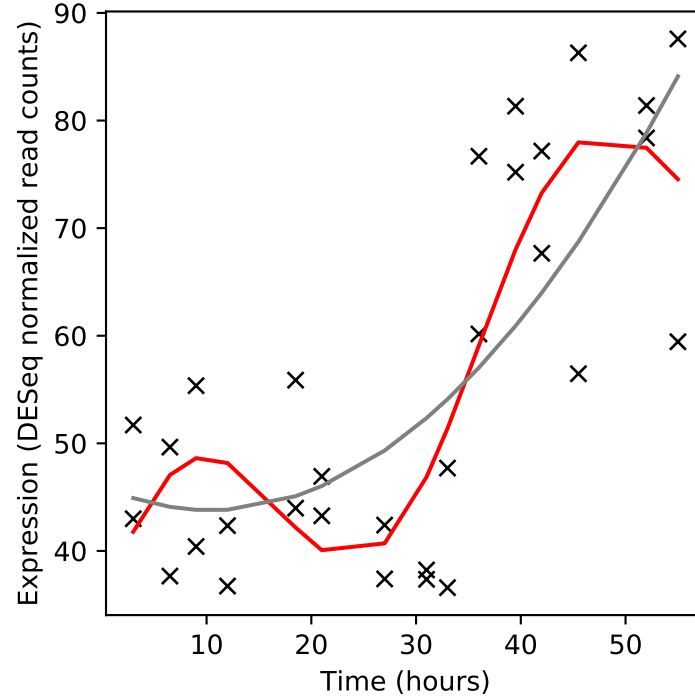
Rv2710/sigB



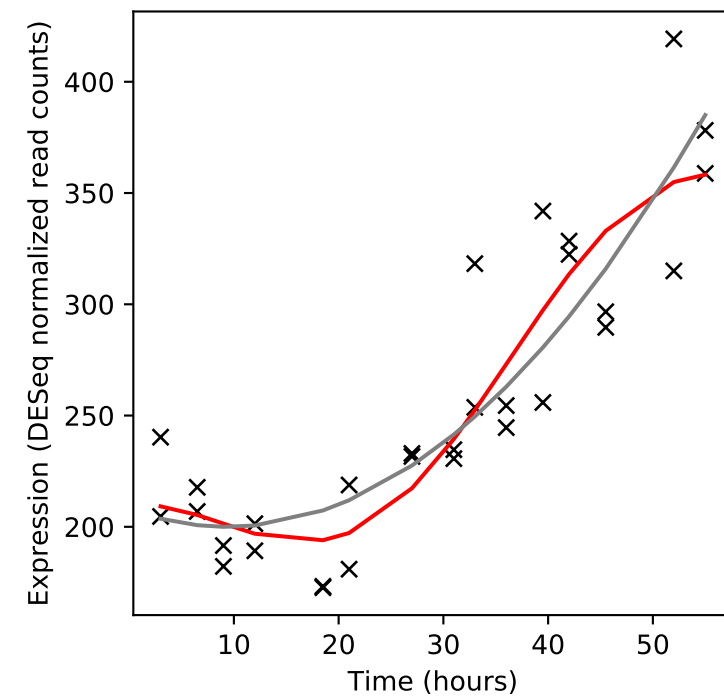
Rv2711/ideR



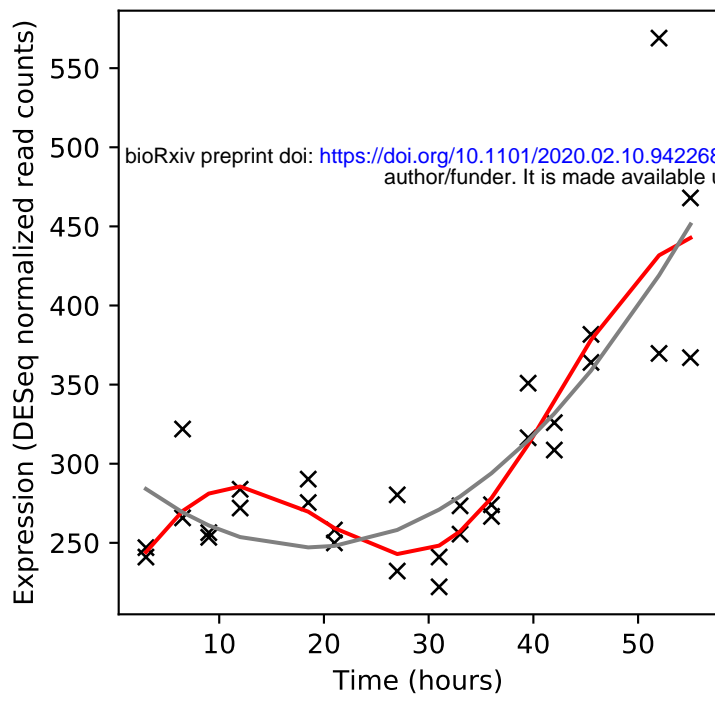
Rv2712c/-



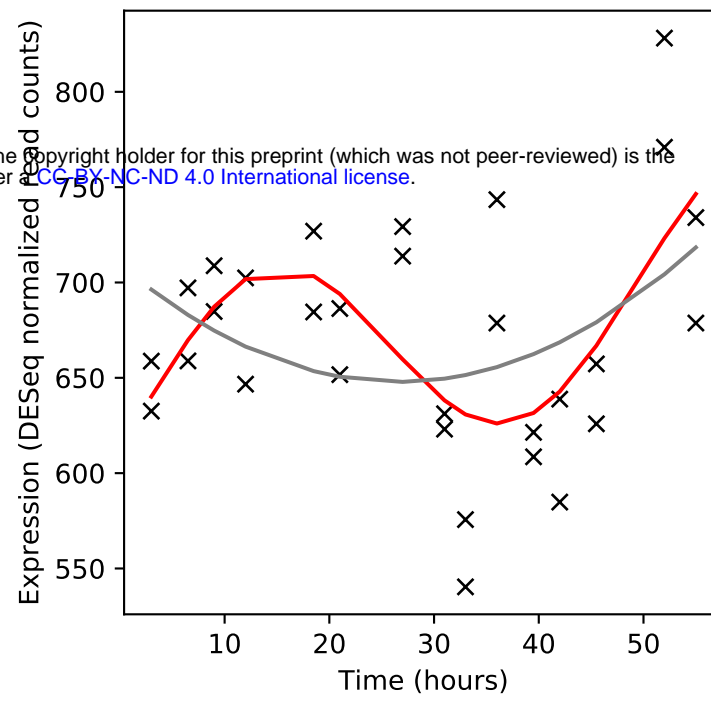
Rv2713/sthA



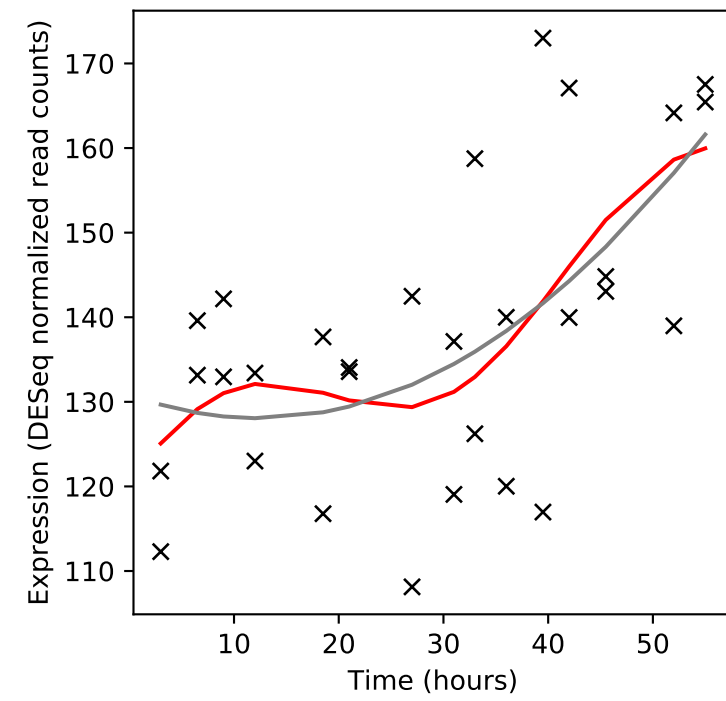
Rv2714/-



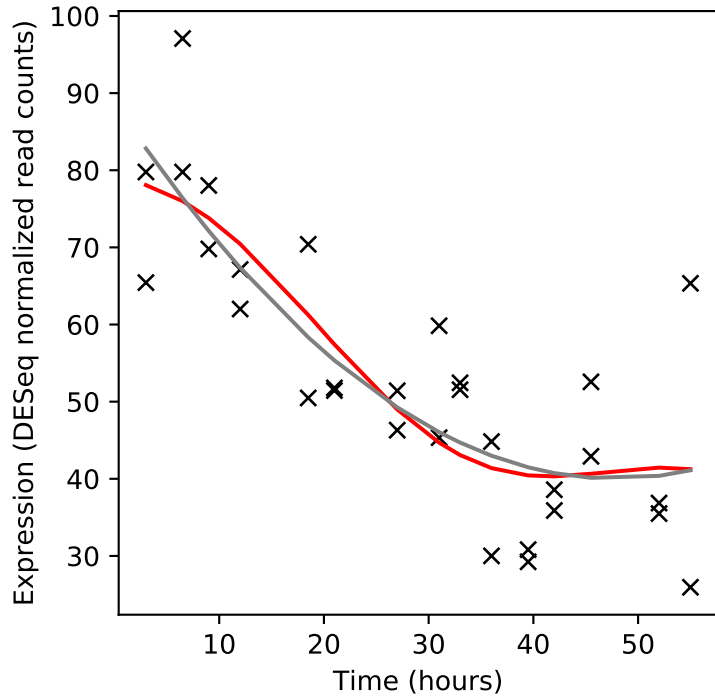
Rv2715/-



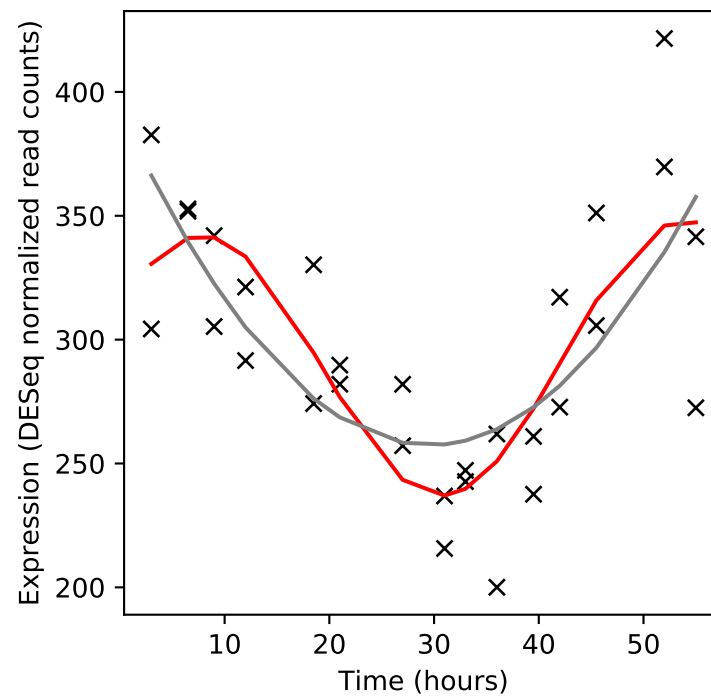
Rv2716/-



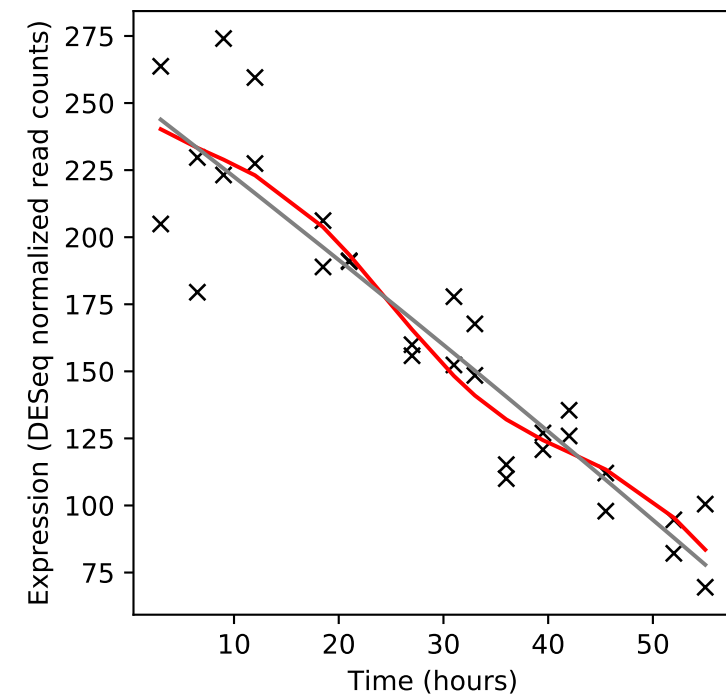
Rv2717c/-



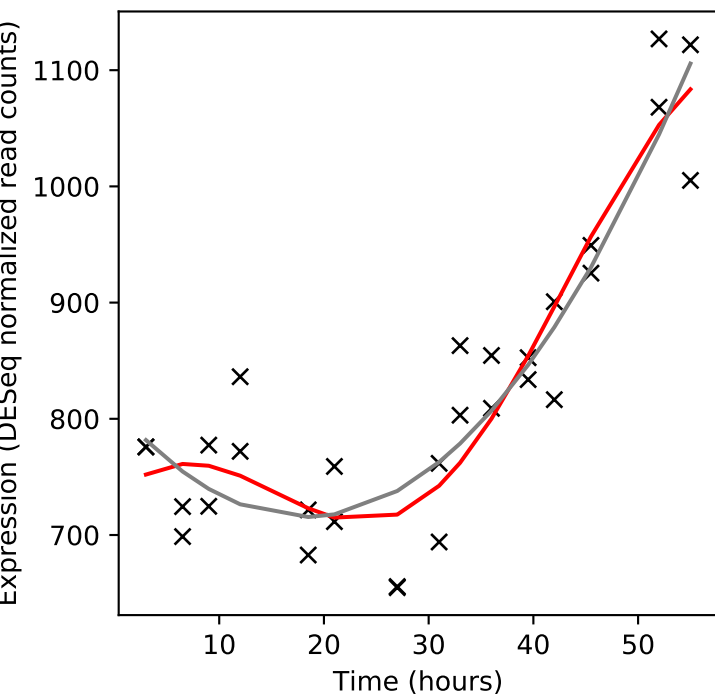
Rv2718c/nrdR



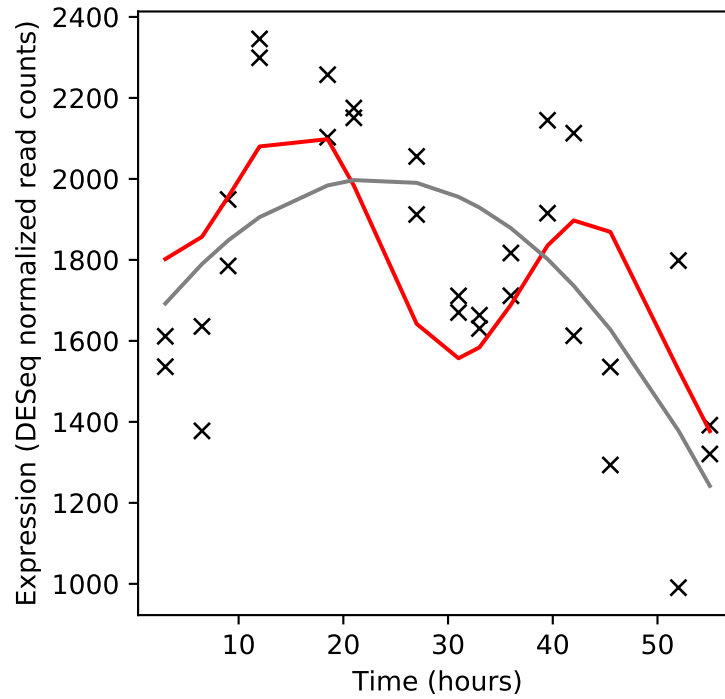
Rv2719c/-



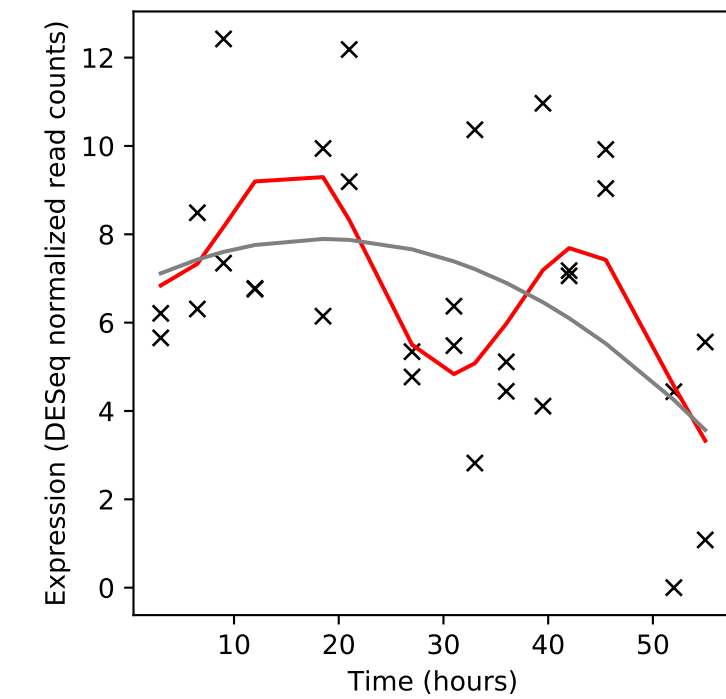
Rv2720/lexA



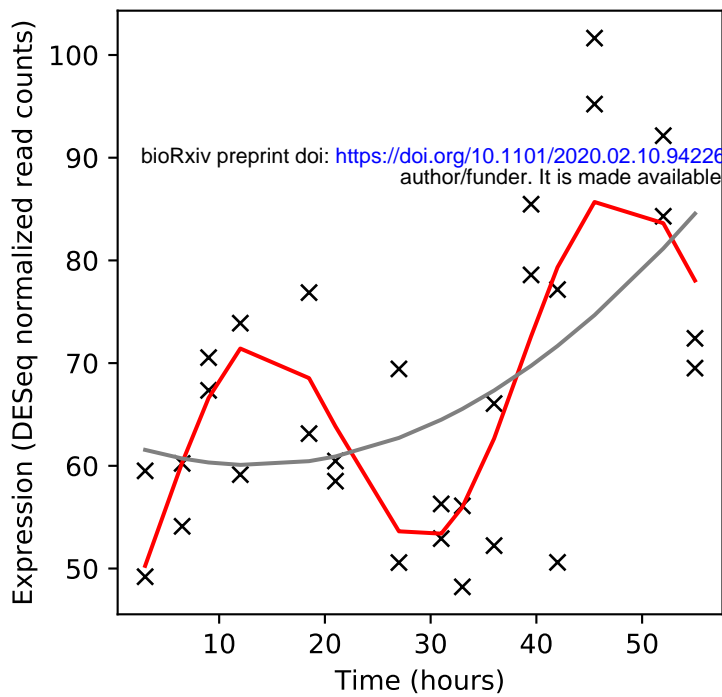
Rv2721c/-



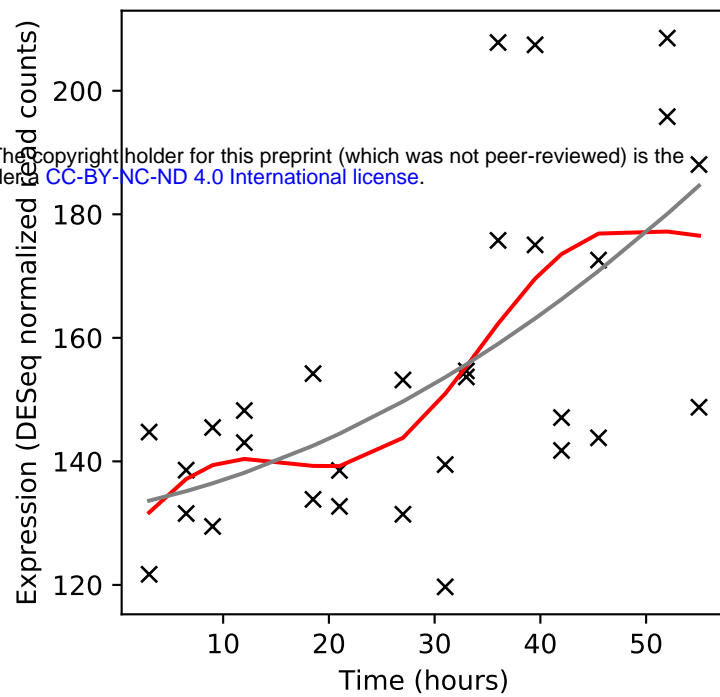
Rv2722/-



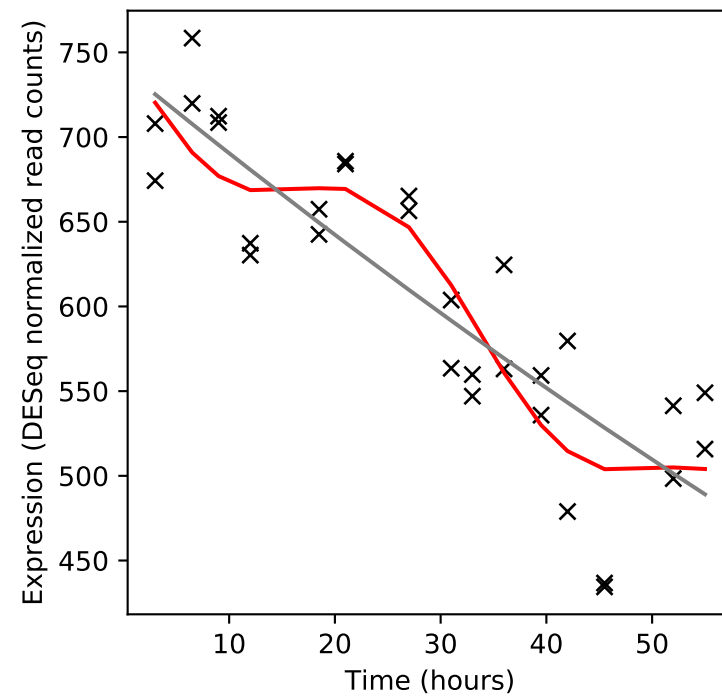
Rv2723/-



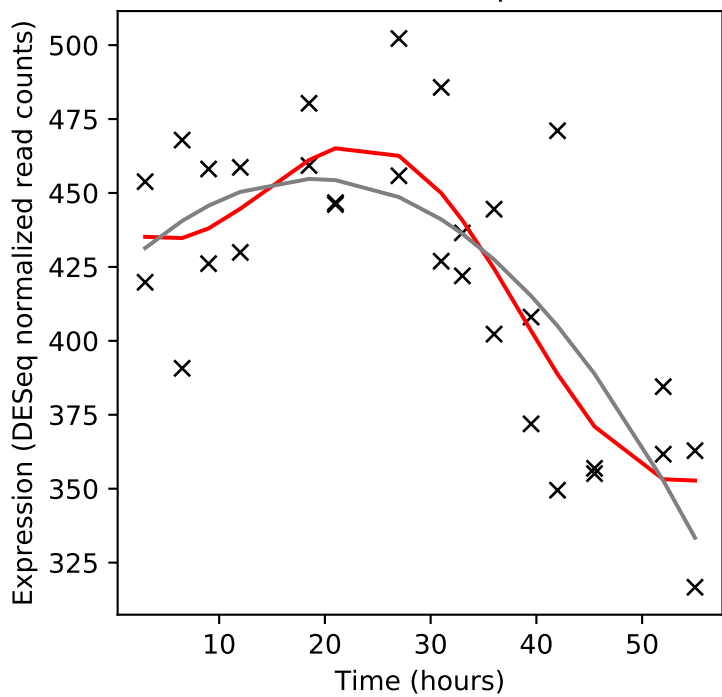
Rv2724c/fadE20



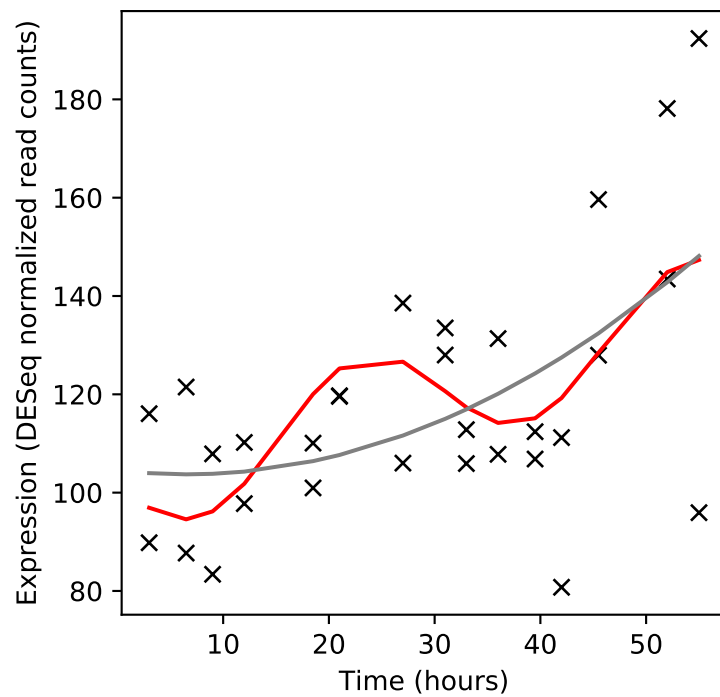
Rv2725c/hflX



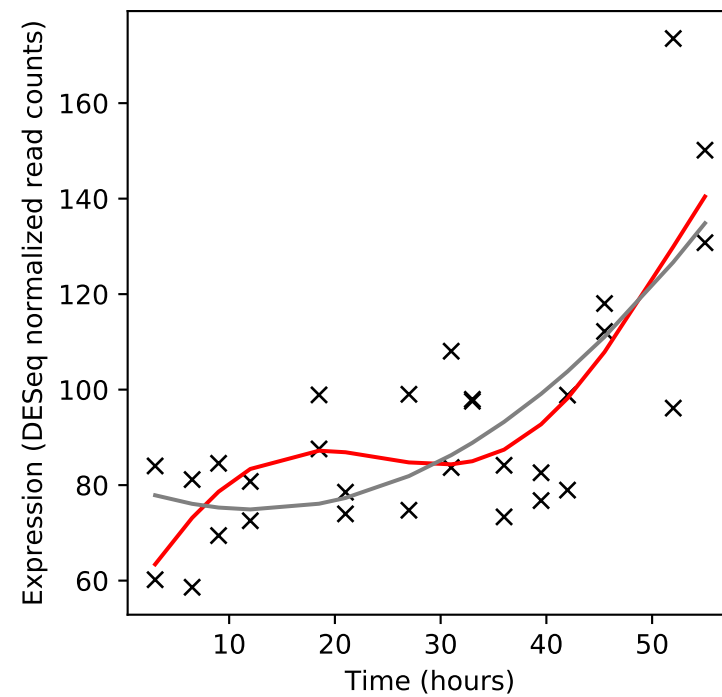
Rv2726c/dapF



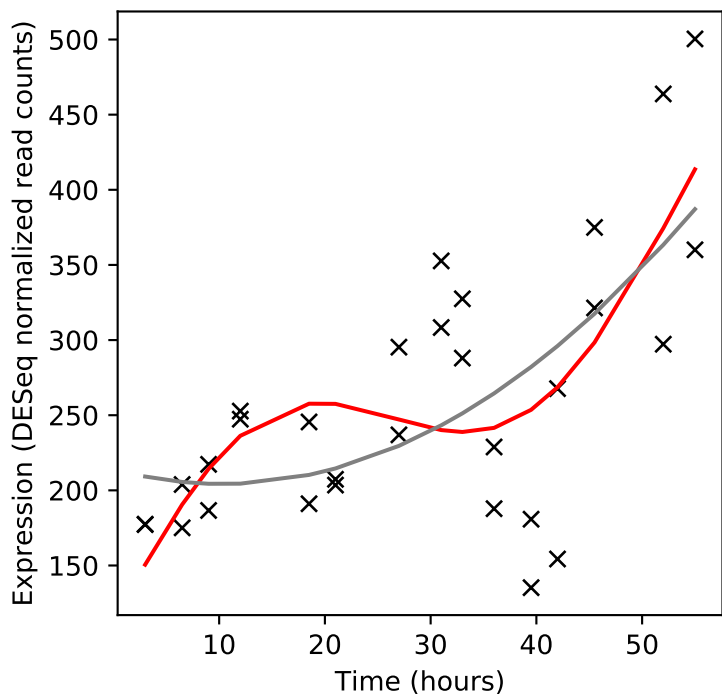
Rv2727c/miaA



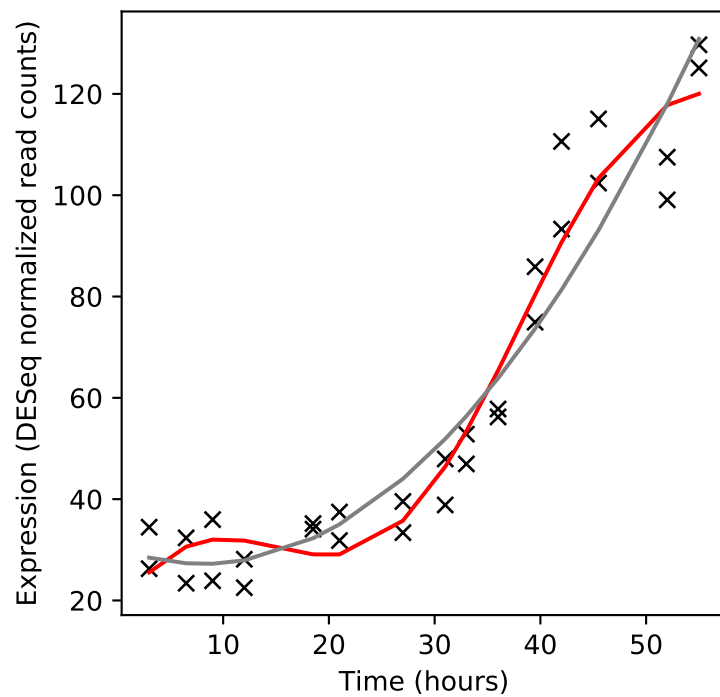
Rv2728c/-



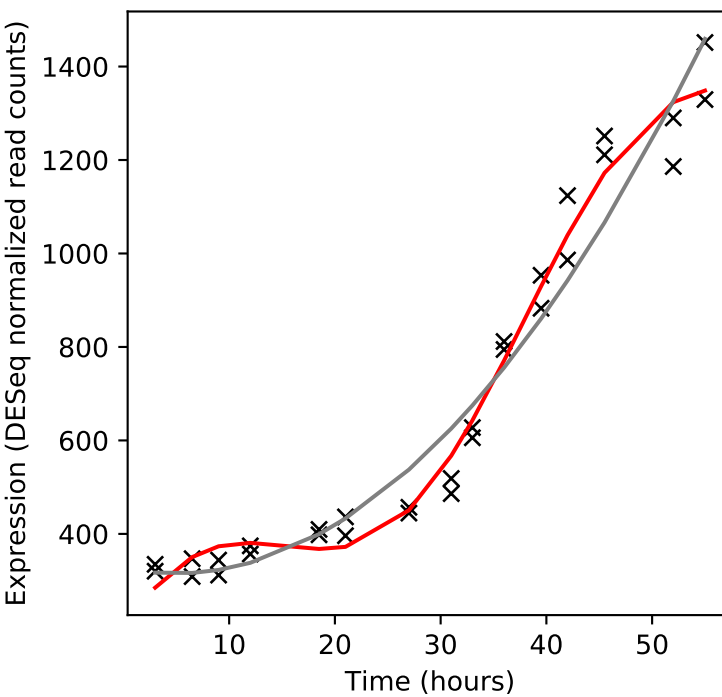
Rv2729c/-



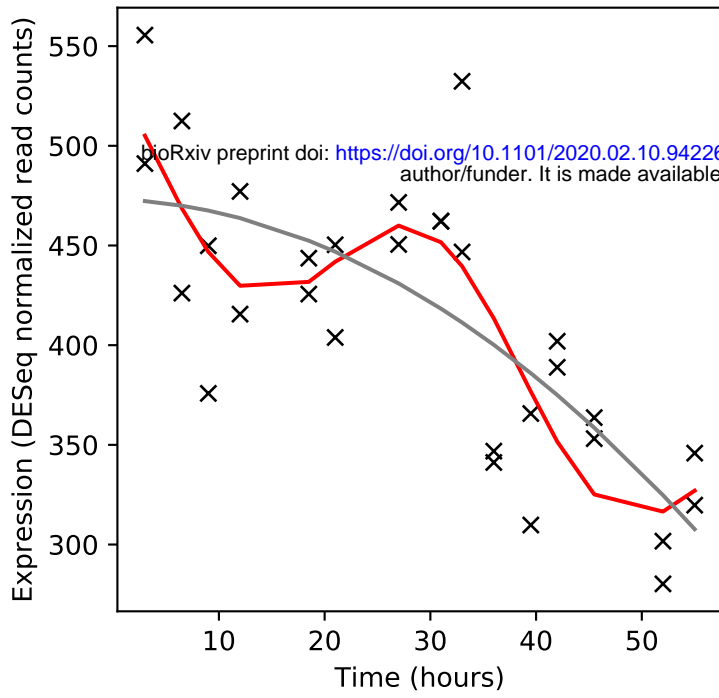
Rv2730/-



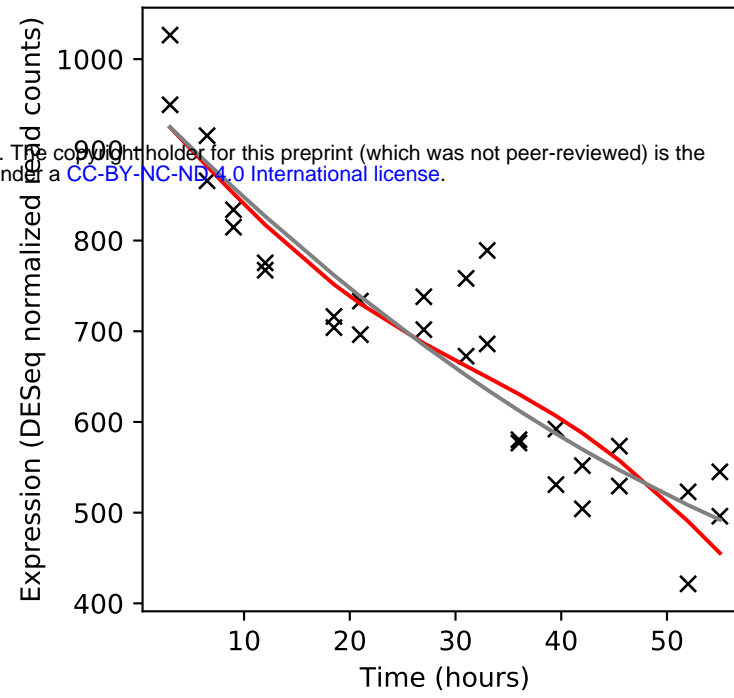
Rv2731/-



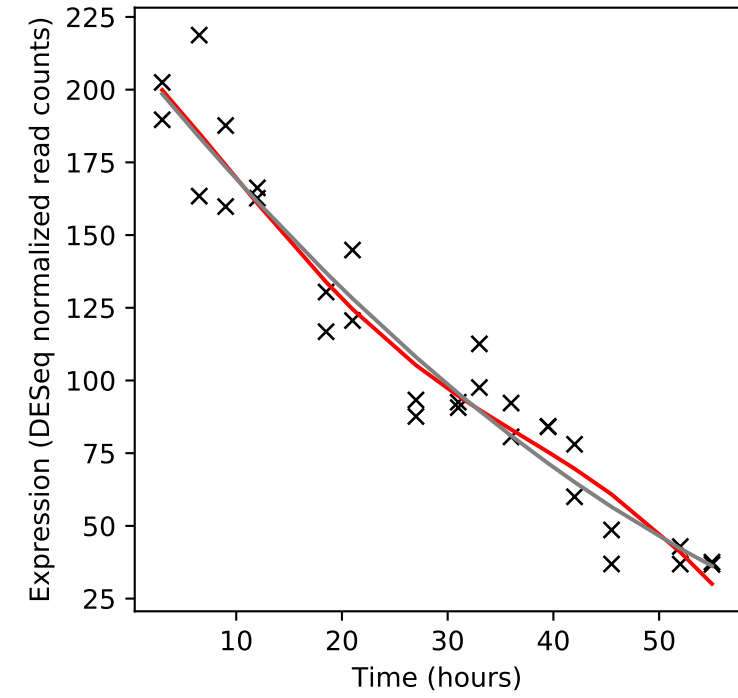
Rv2732c/-



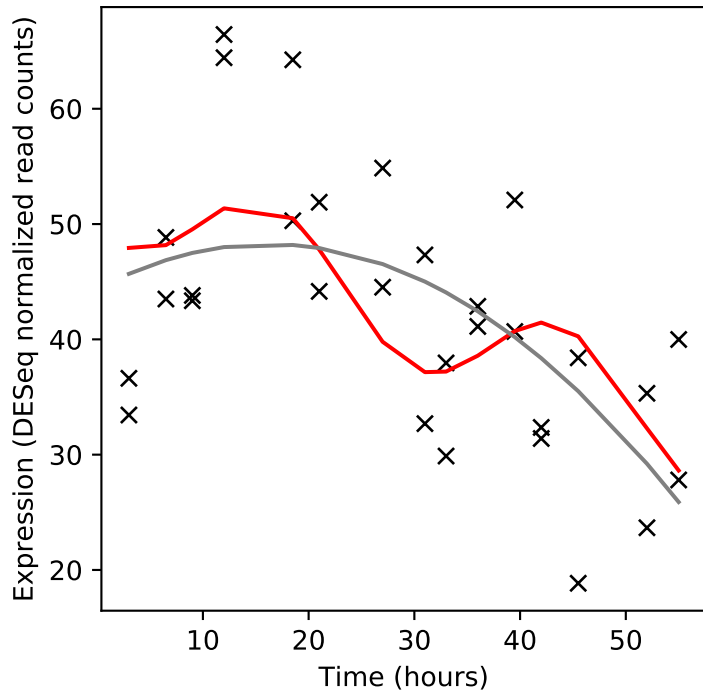
Rv2733c/-



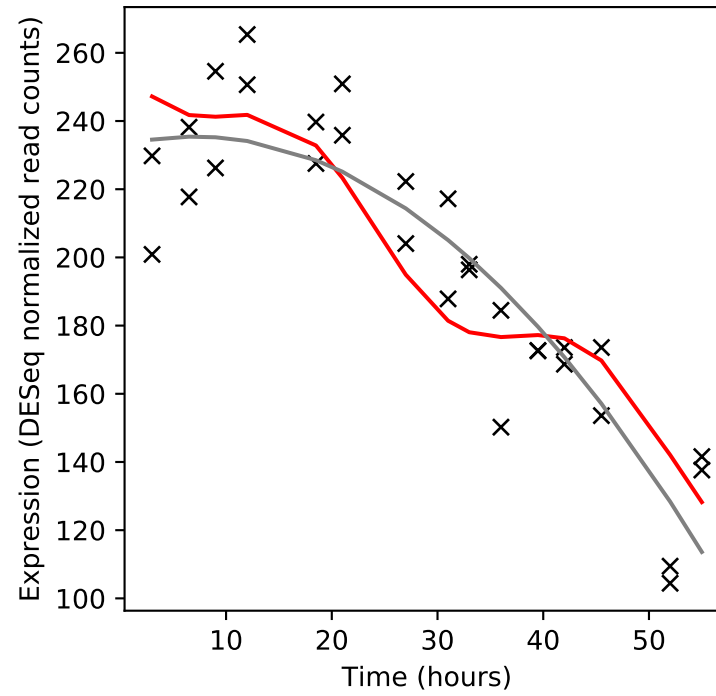
Rv2734/-



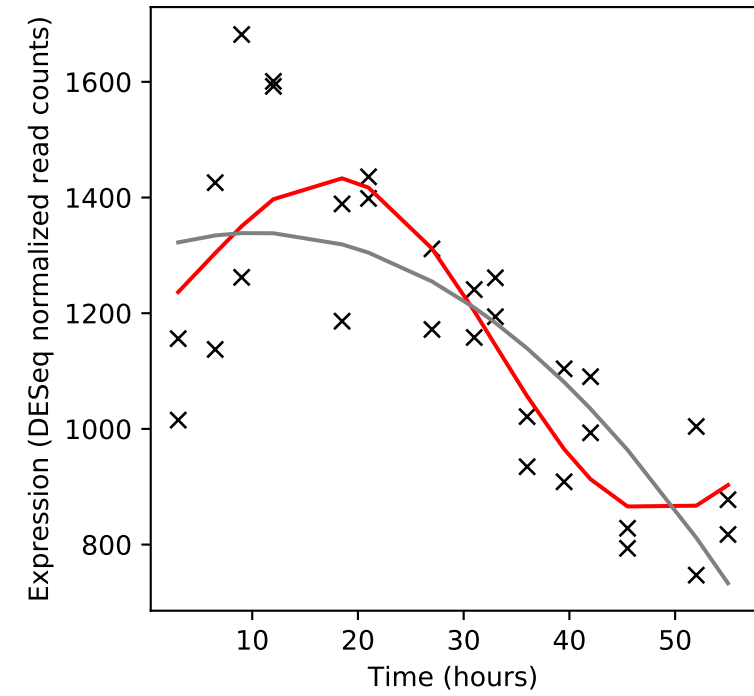
Rv2735c/-



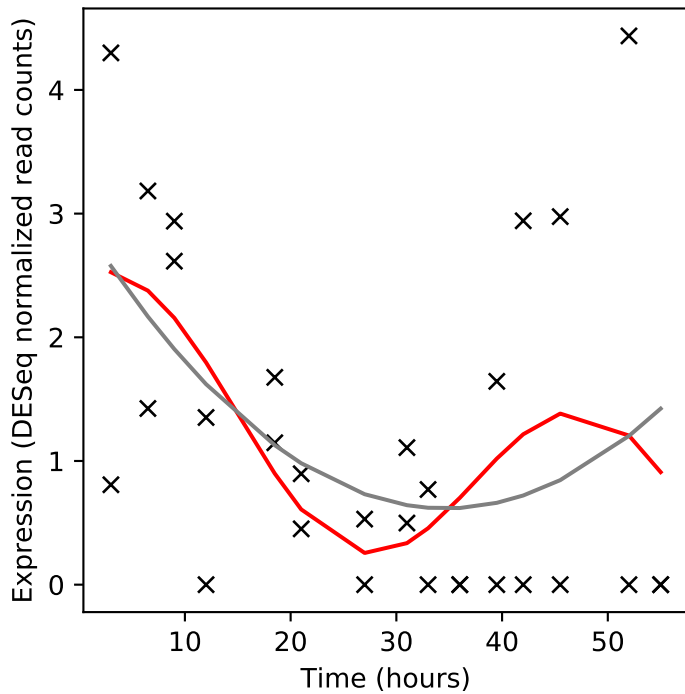
Rv2736c/recX



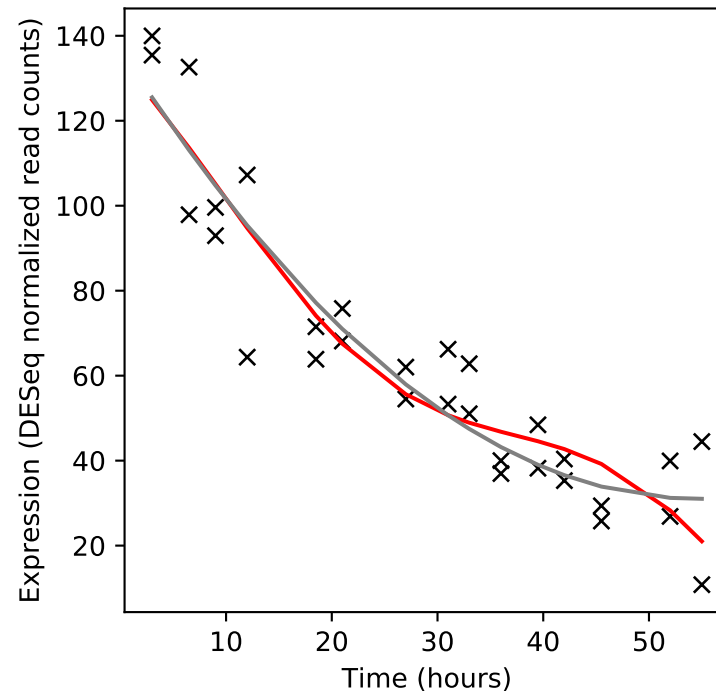
Rv2737c/recA



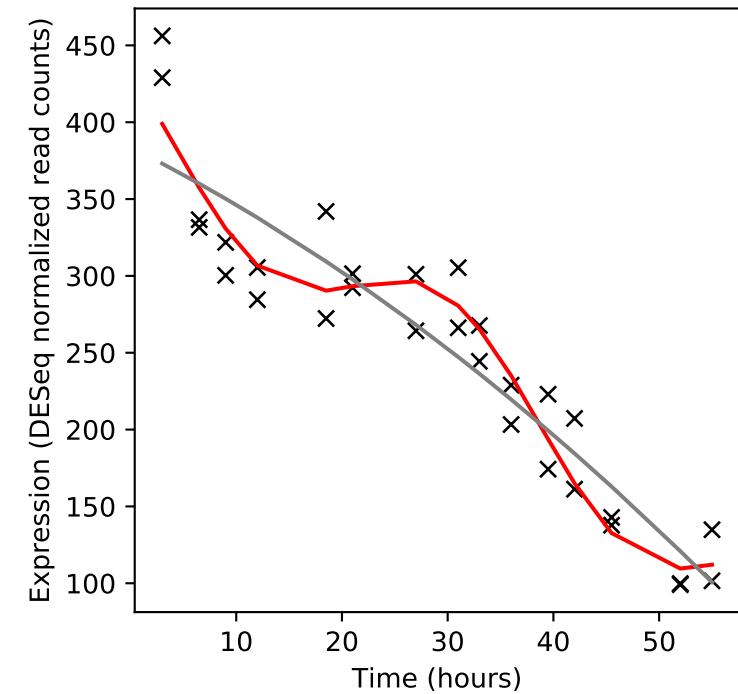
Rv2737A/-



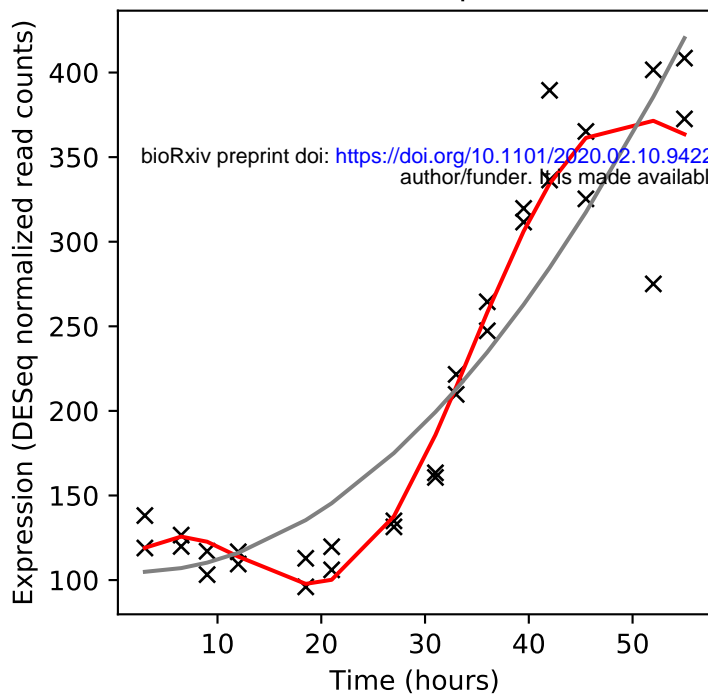
Rv2738c/-



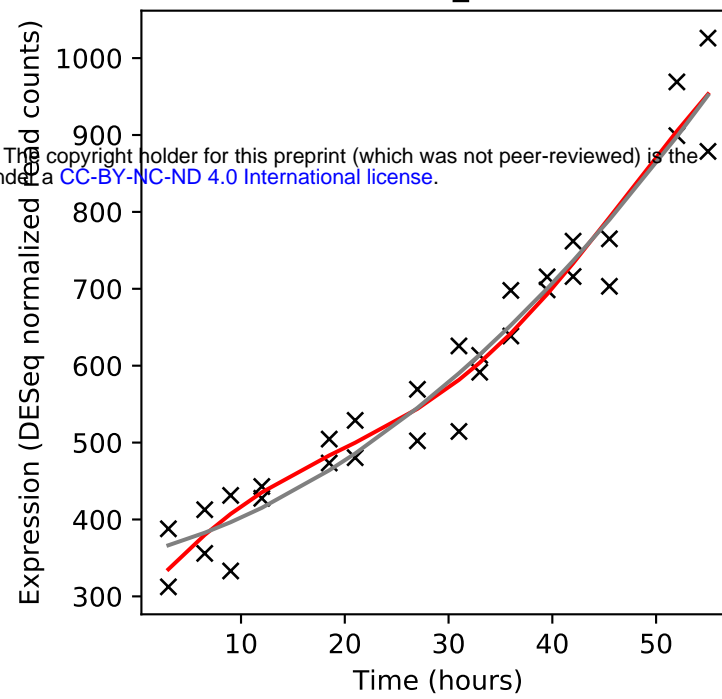
Rv2739c/-



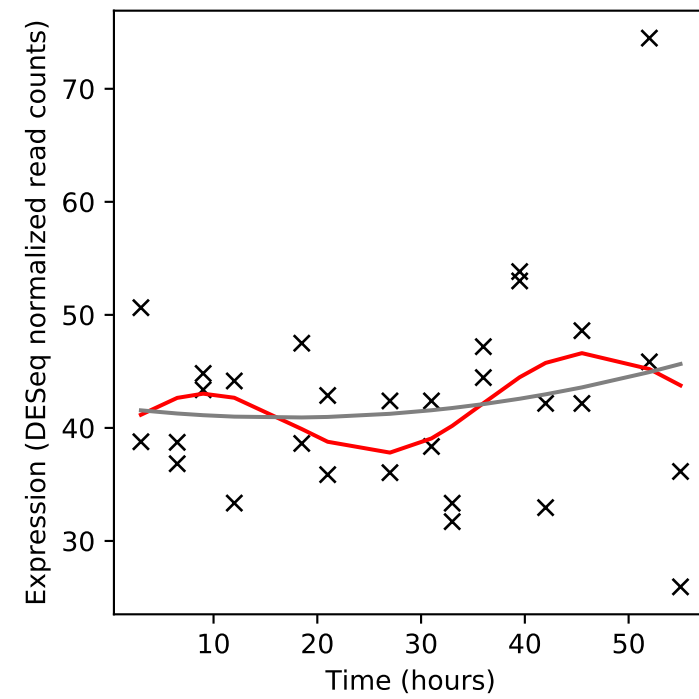
Rv2740/ephG



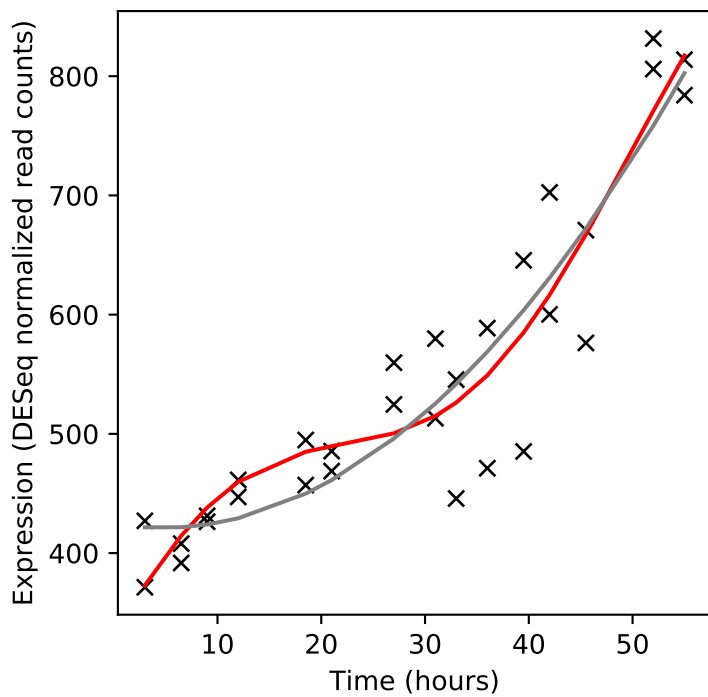
Rv2741/PE_PGRS47



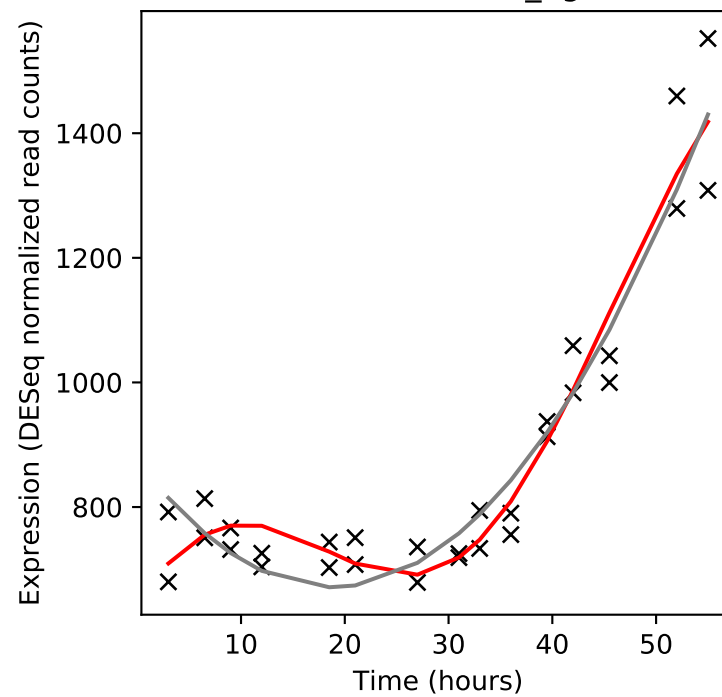
Rv2742c/-



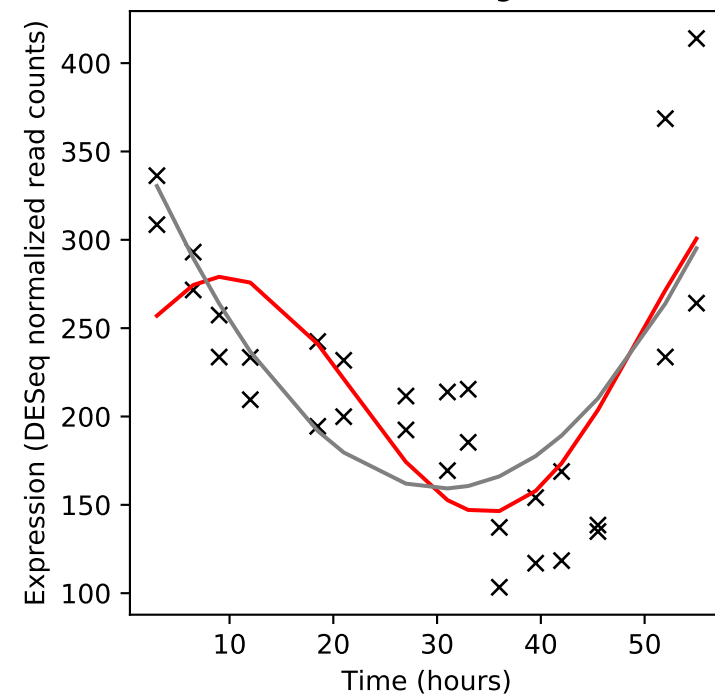
Rv2743c/-



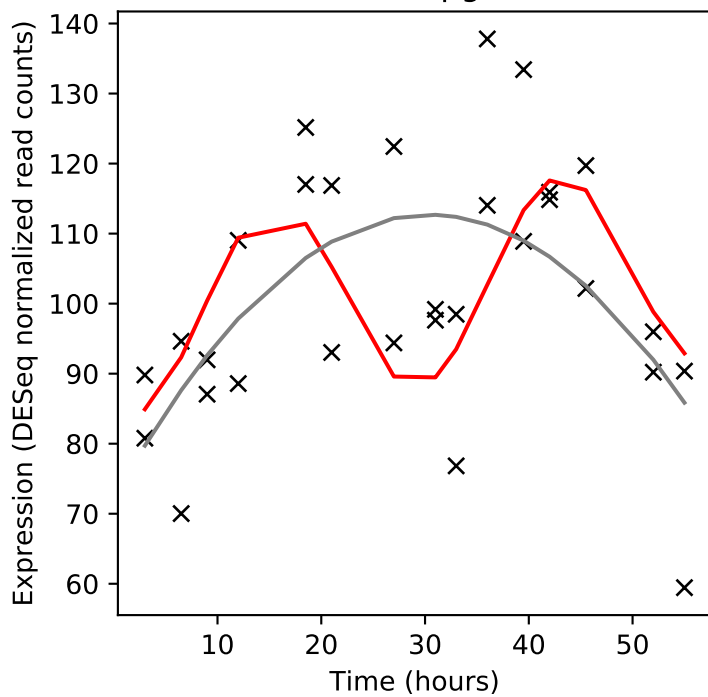
Rv2744c/35kd_ag



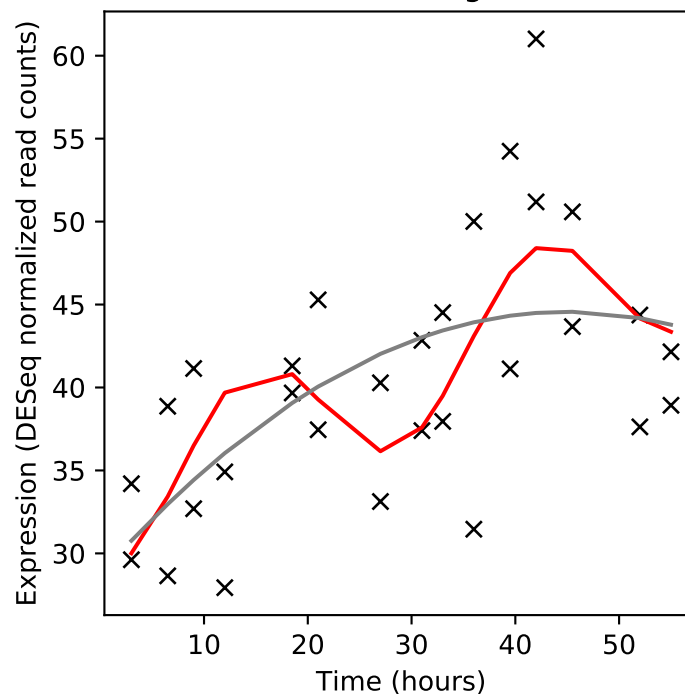
Rv2745c/clgR



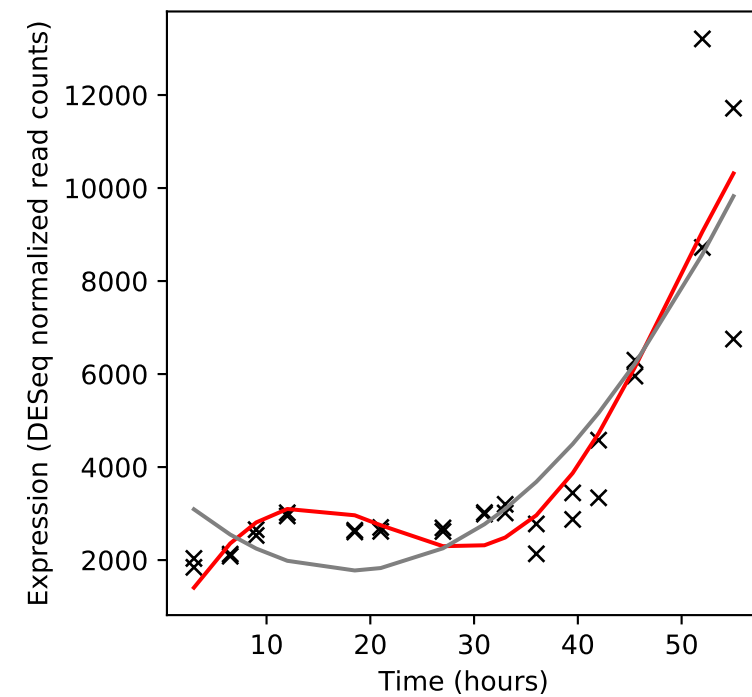
Rv2746c/pgsA3



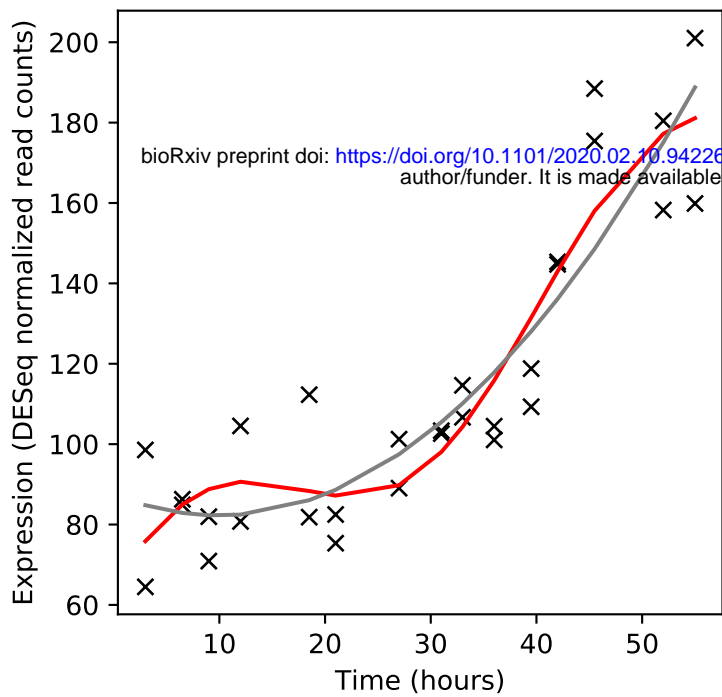
Rv2747/argA



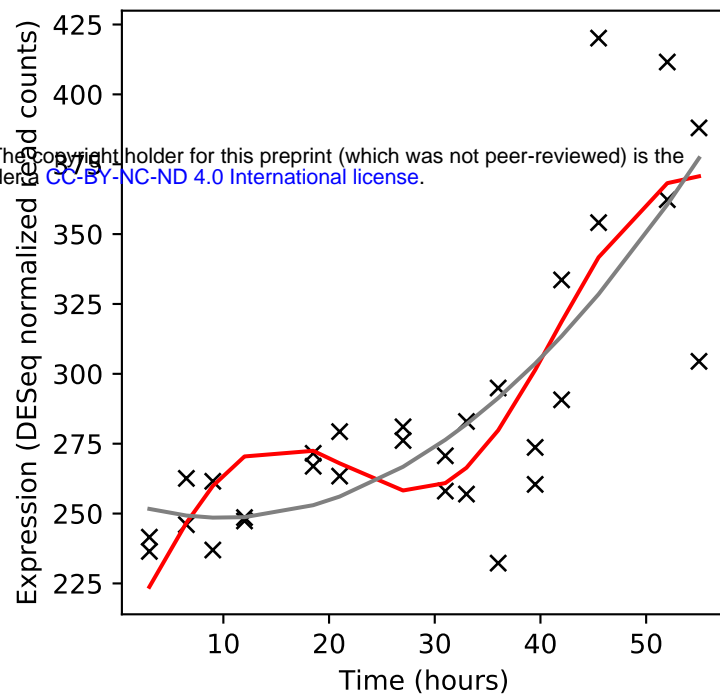
Rv2748c/ftsK



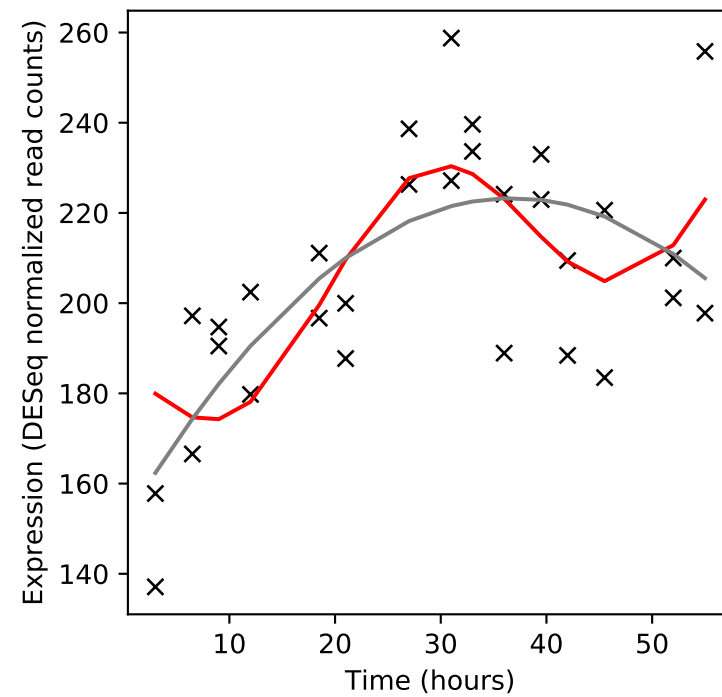
Rv2749/-



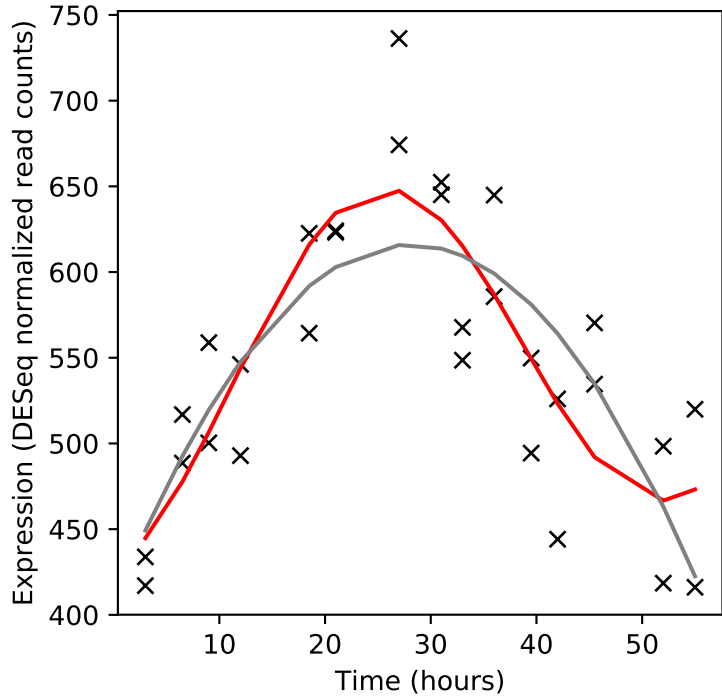
Rv2750/-



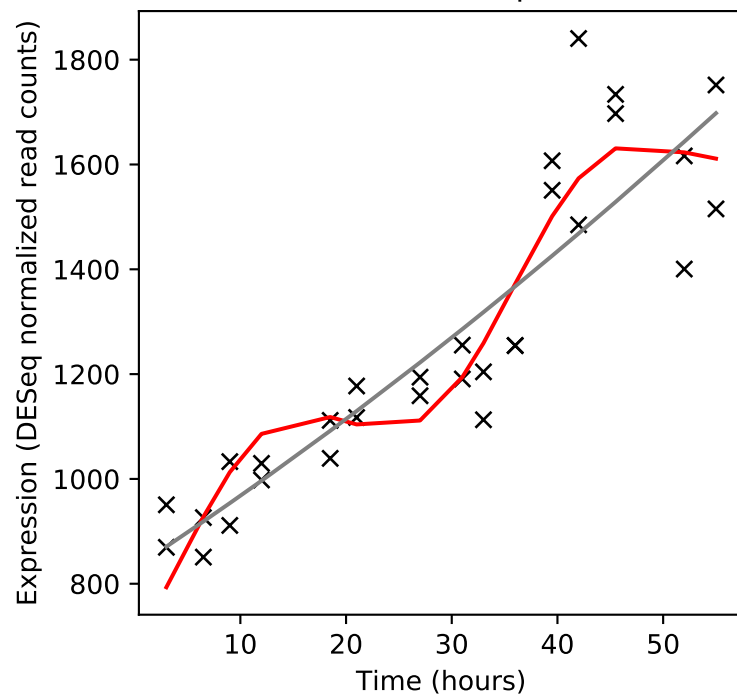
Rv2751/-



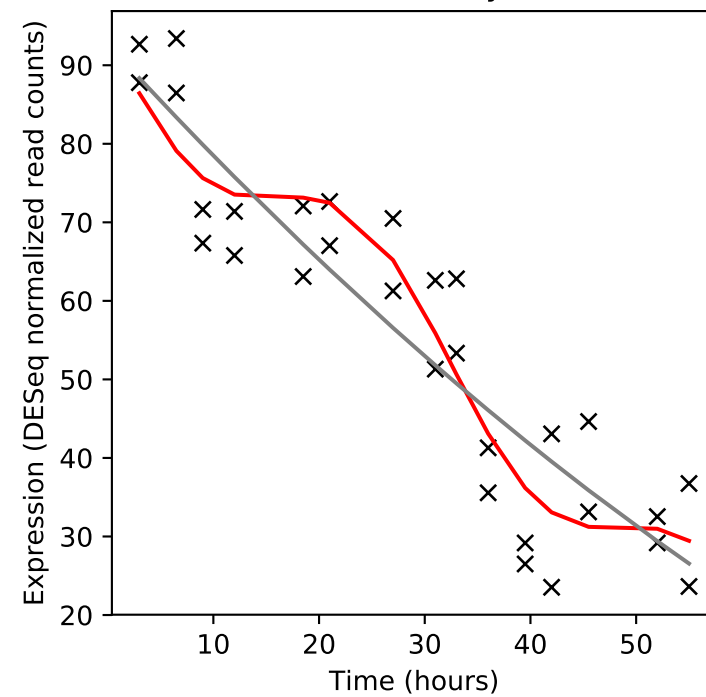
Rv2752c/-



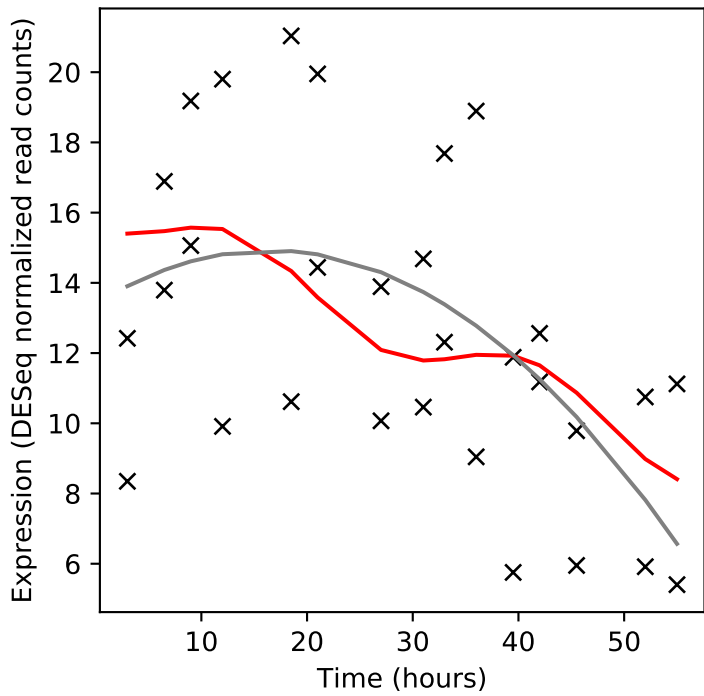
Rv2753c/dapA



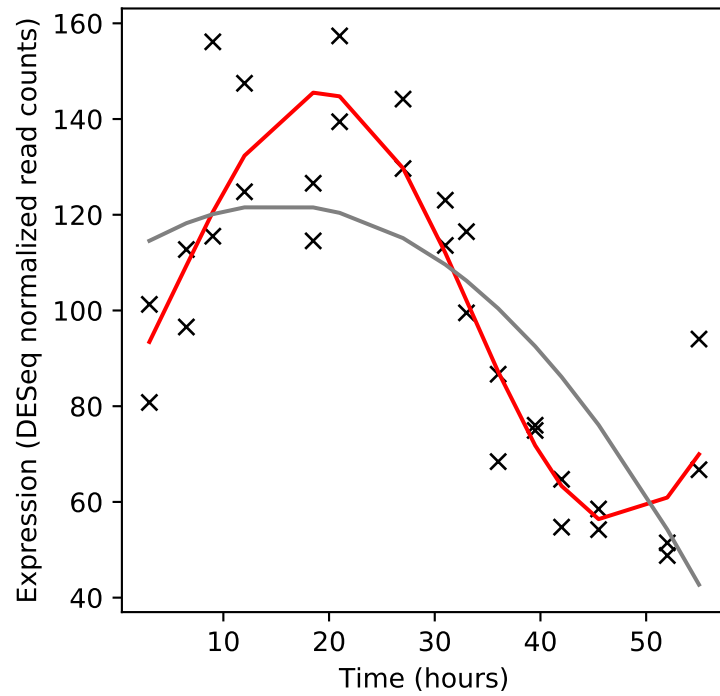
Rv2754c/thyX



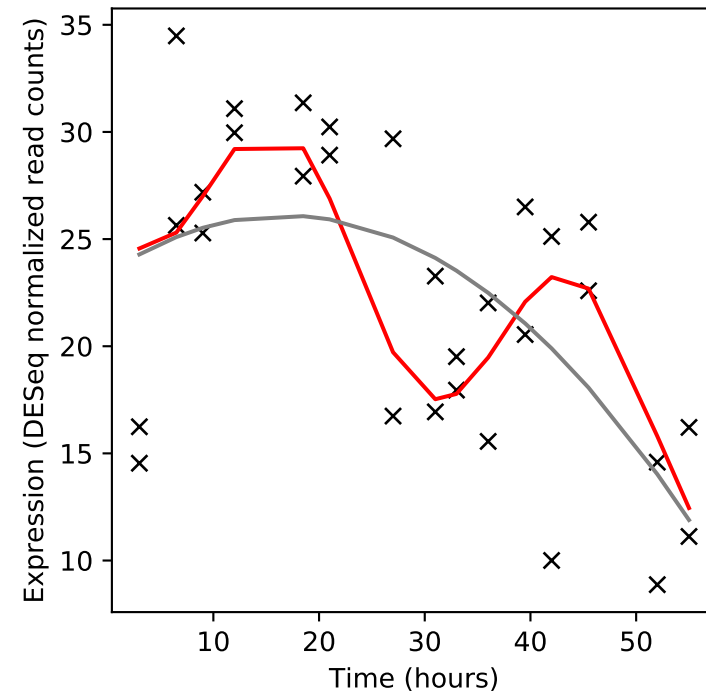
Rv2755c/hsdS.1



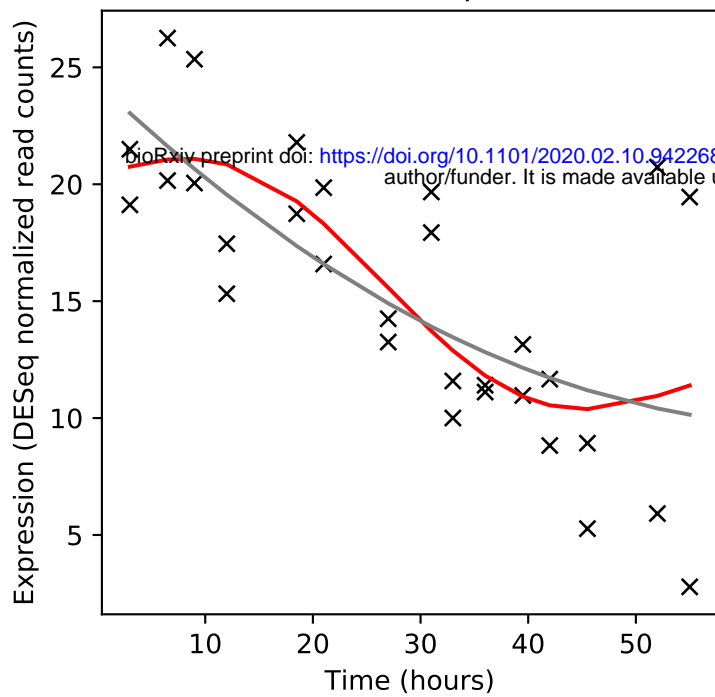
Rv2756c/hsdM



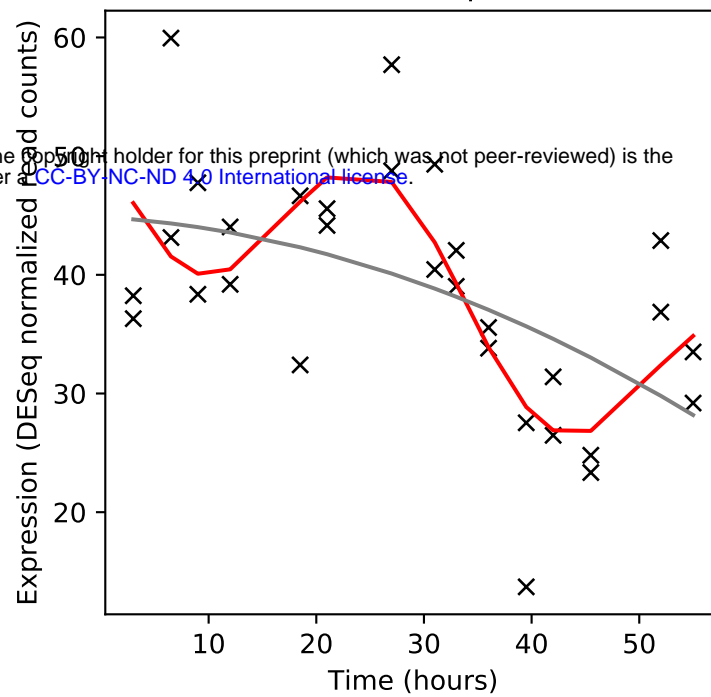
Rv2757c/vapC21



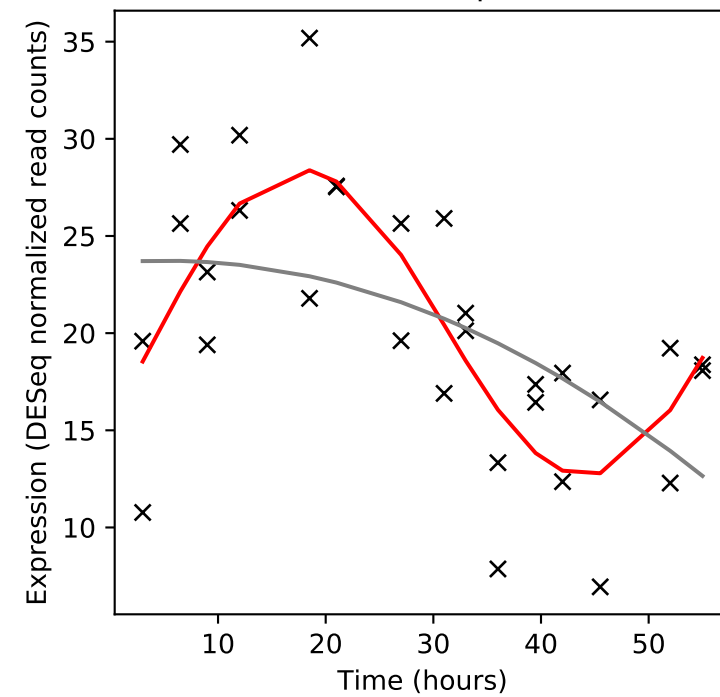
Rv2758c/vapB21



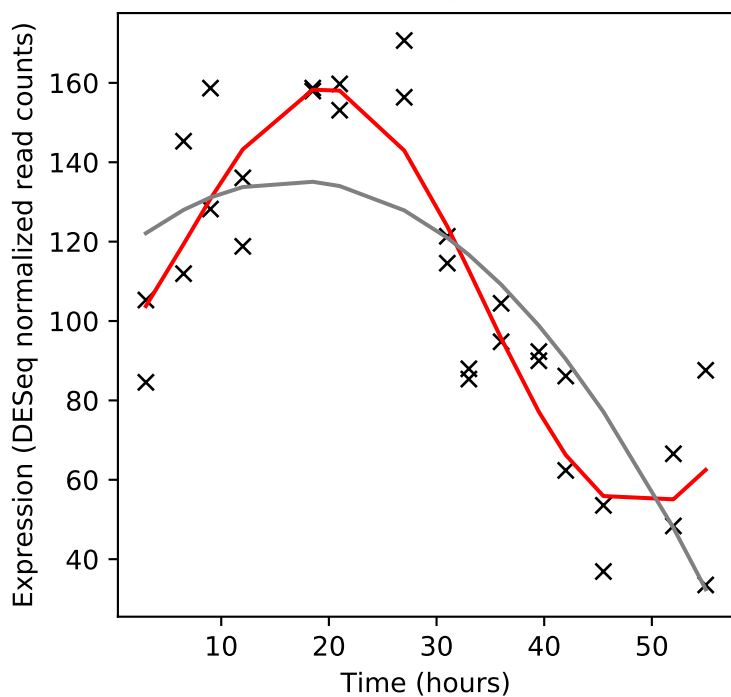
Rv2759c/vapC42



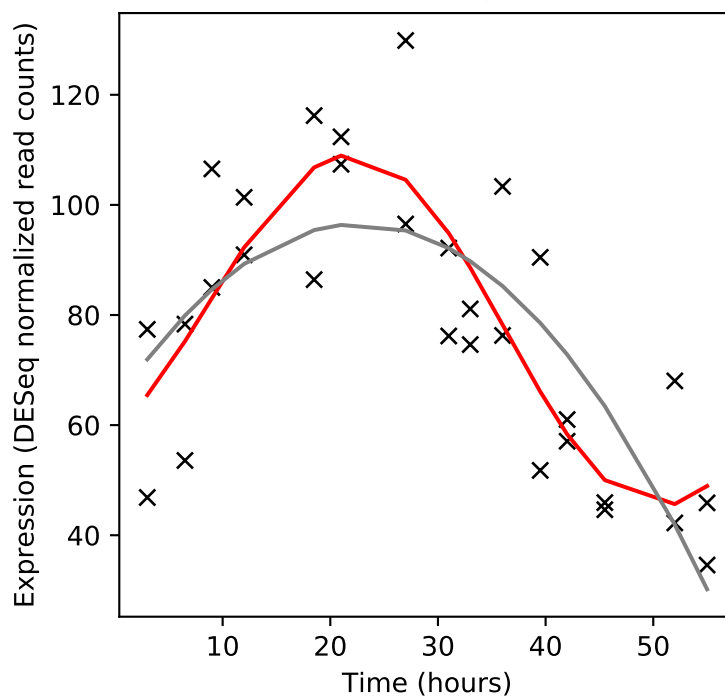
Rv2760c/vapB42



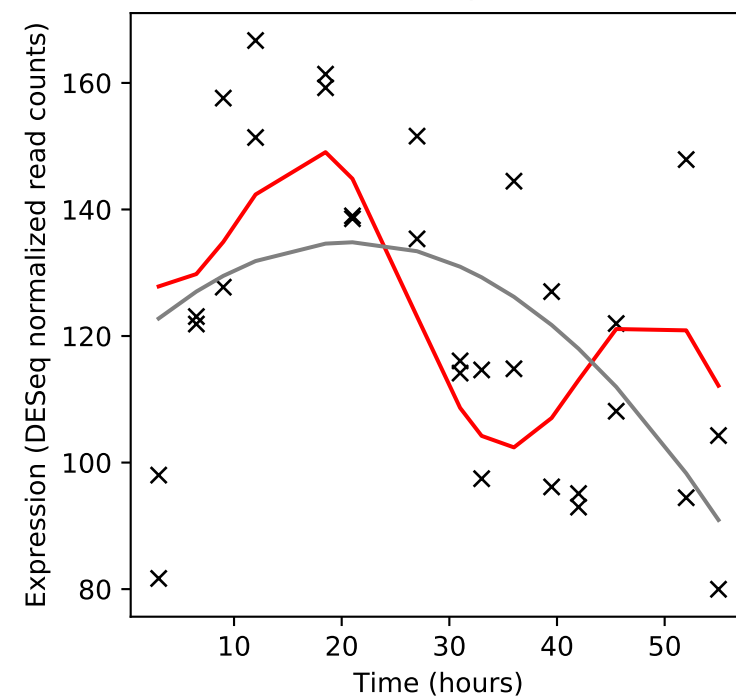
Rv2761c/hsdS



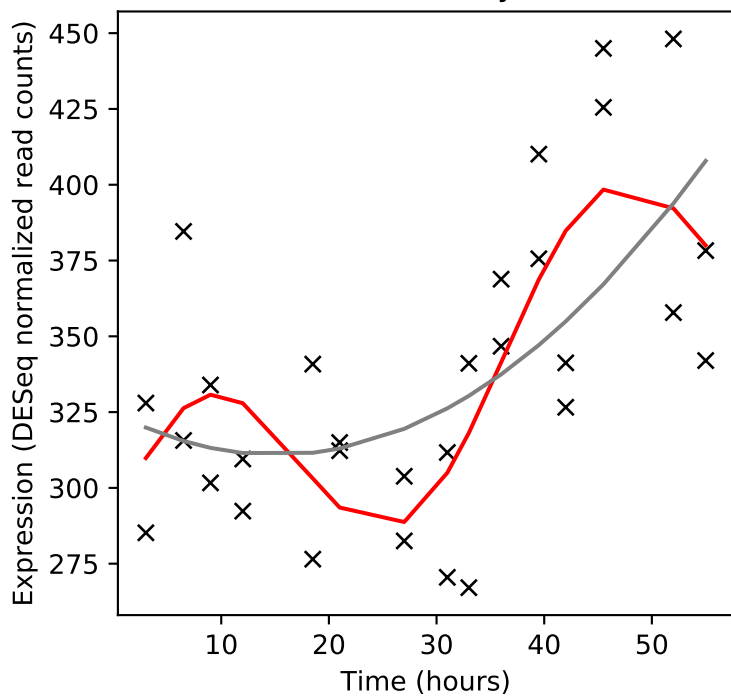
Rv2762c/-



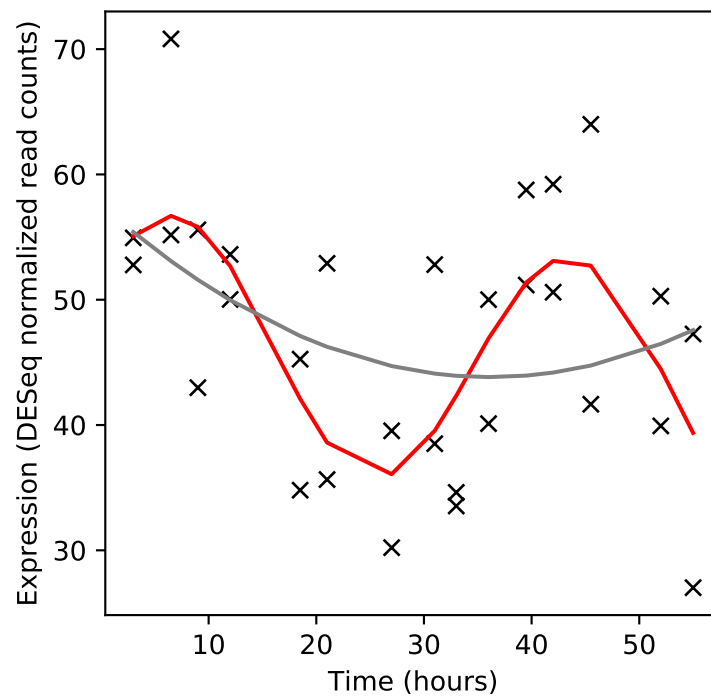
Rv2763c/dfrA



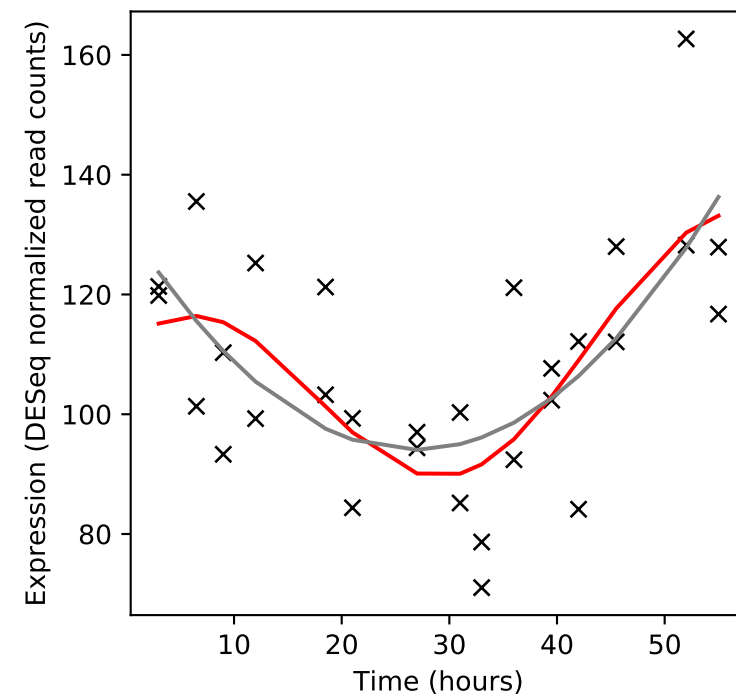
Rv2764c/thyA



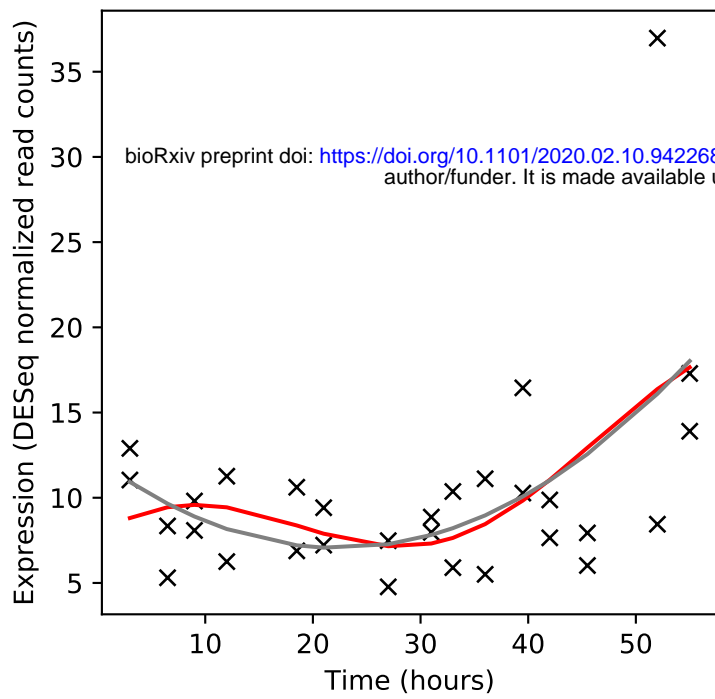
Rv2765c/-



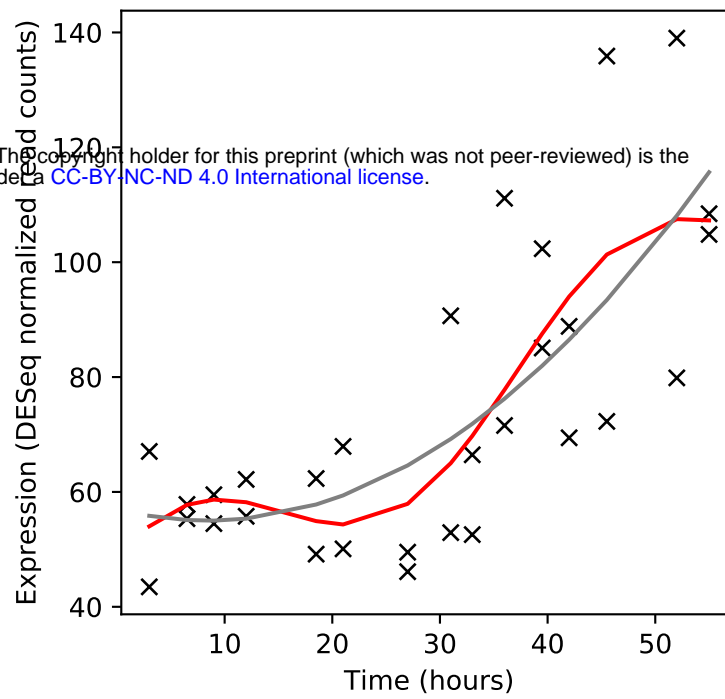
Rv2766c/-



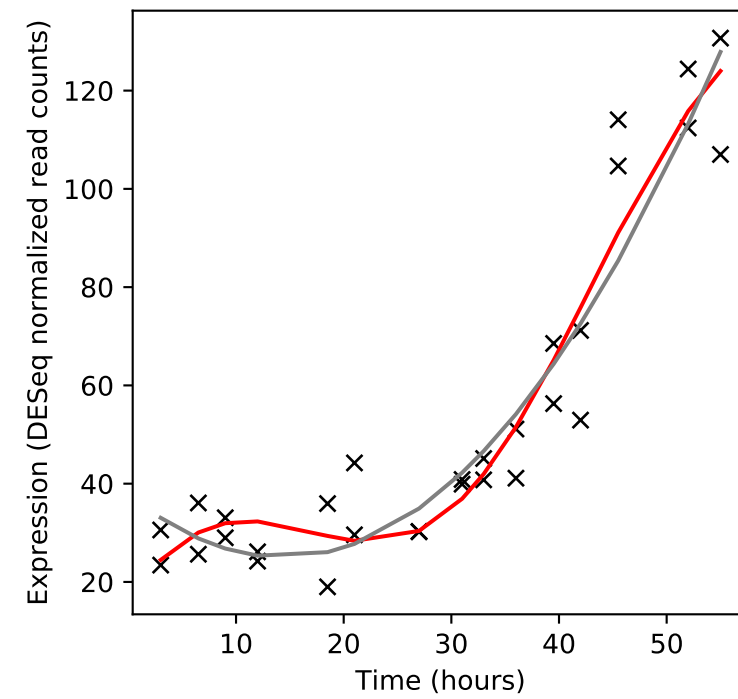
Rv2767c/-



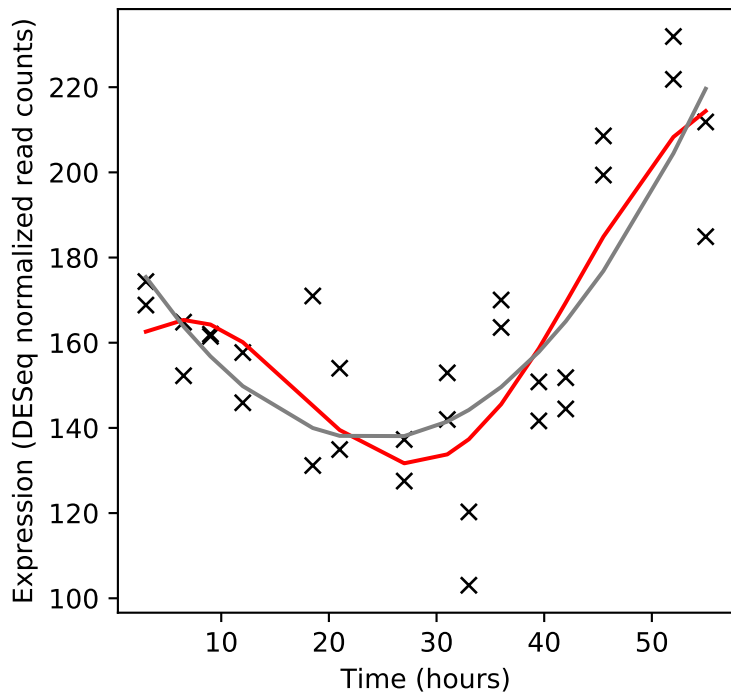
Rv2768c/PPE43



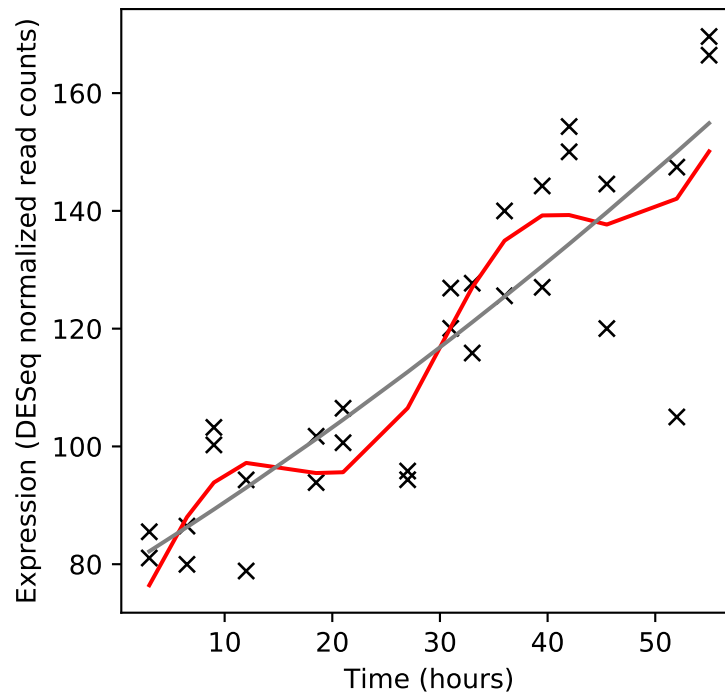
Rv2769c/PE27



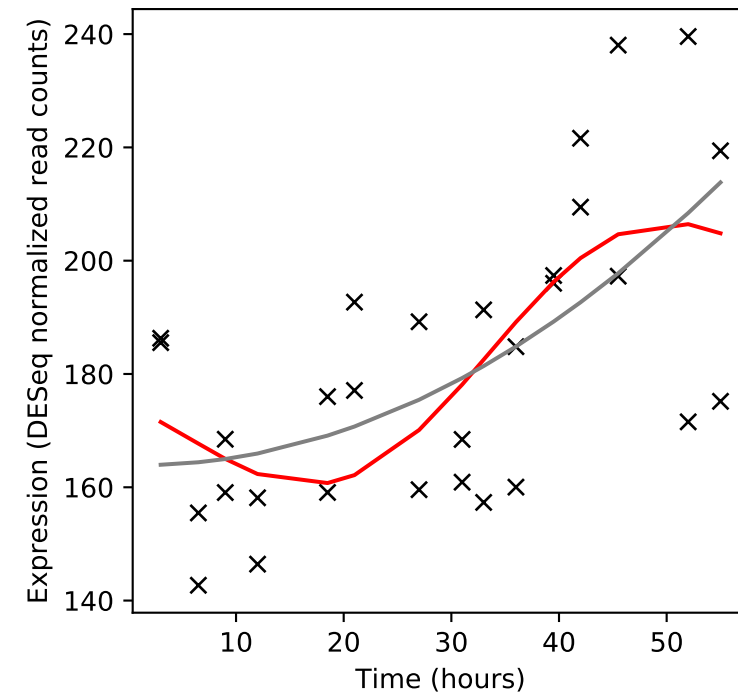
Rv2770c/PPE44



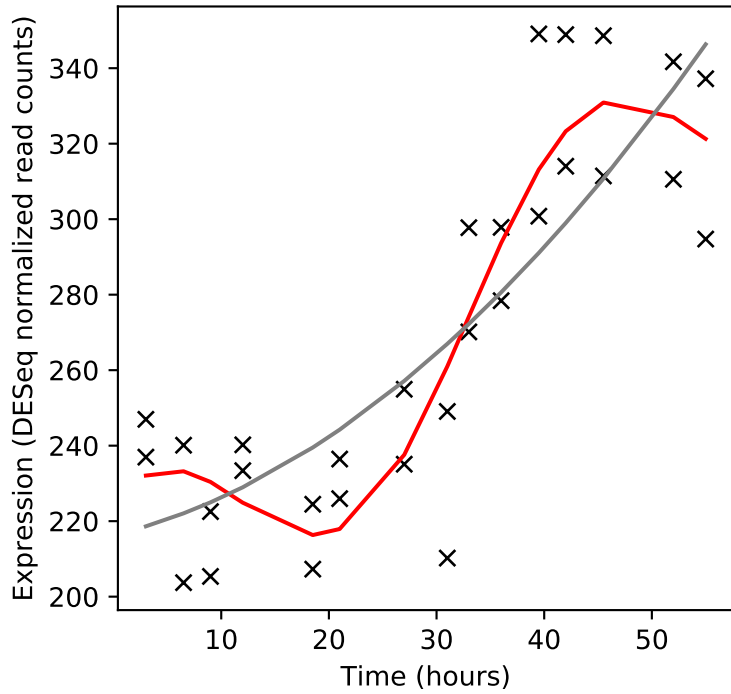
Rv2771c/-



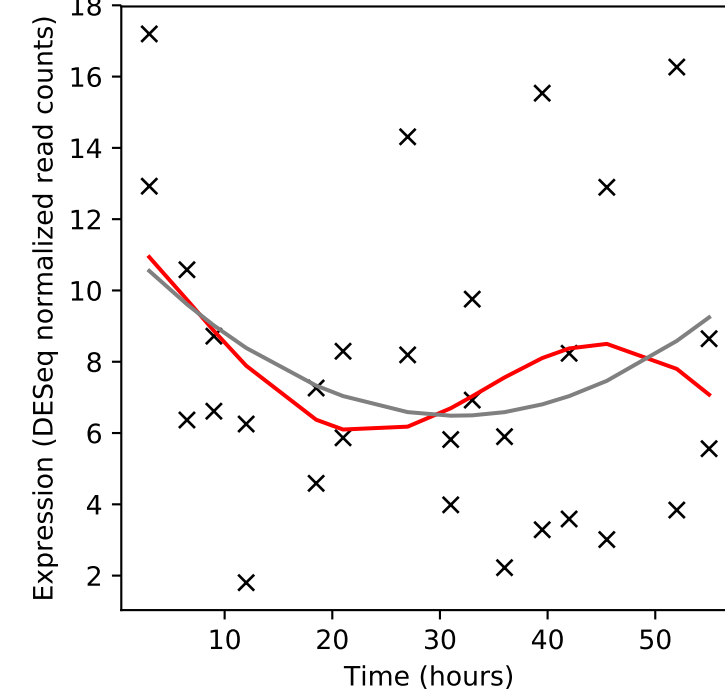
Rv2772c/-



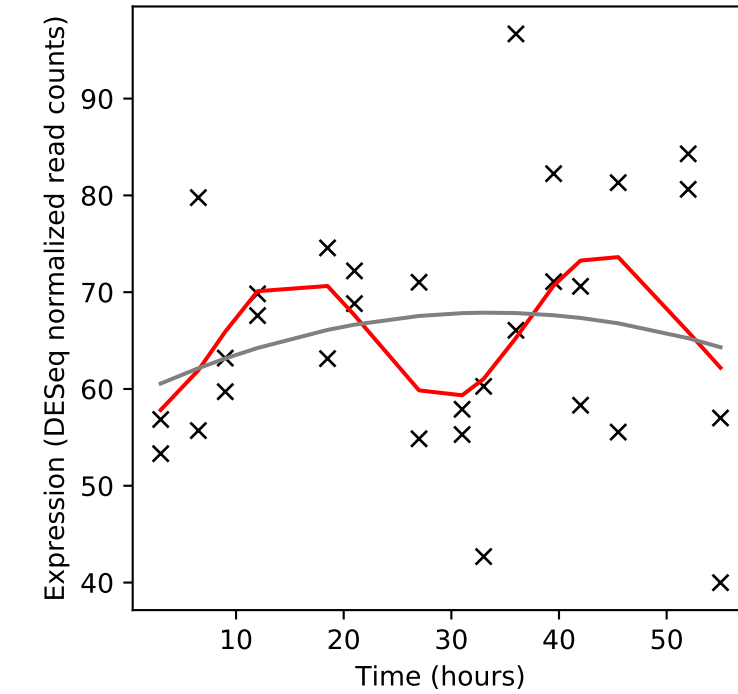
Rv2773c/dapB

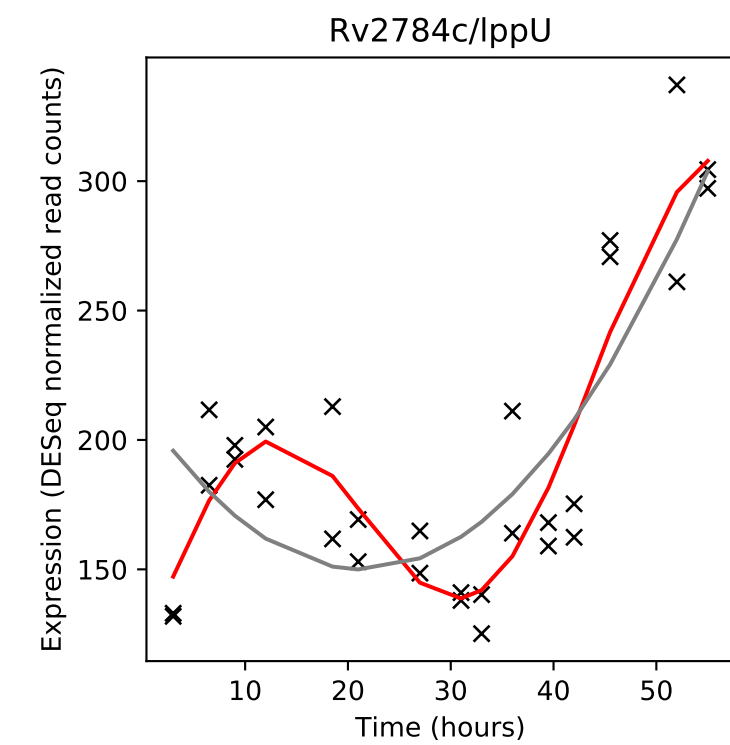
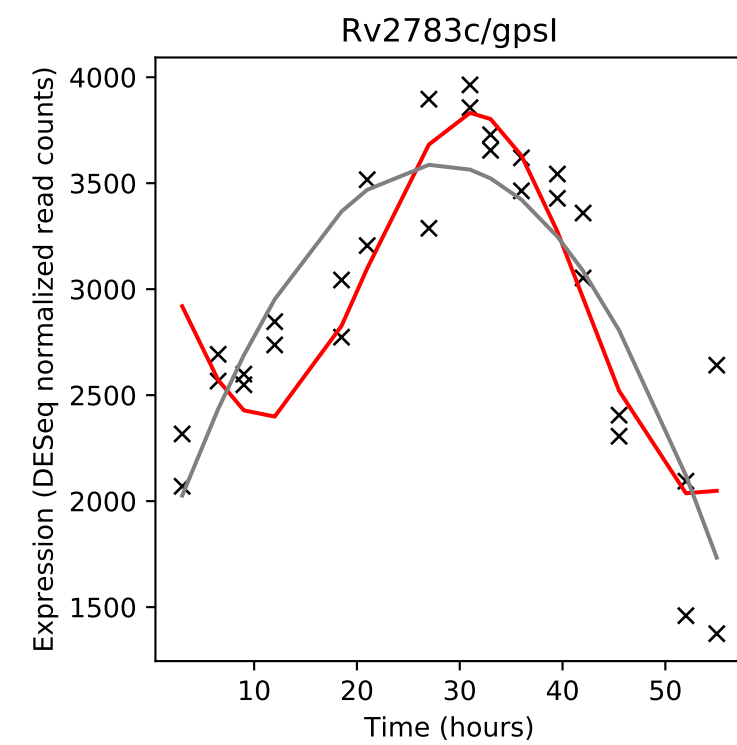
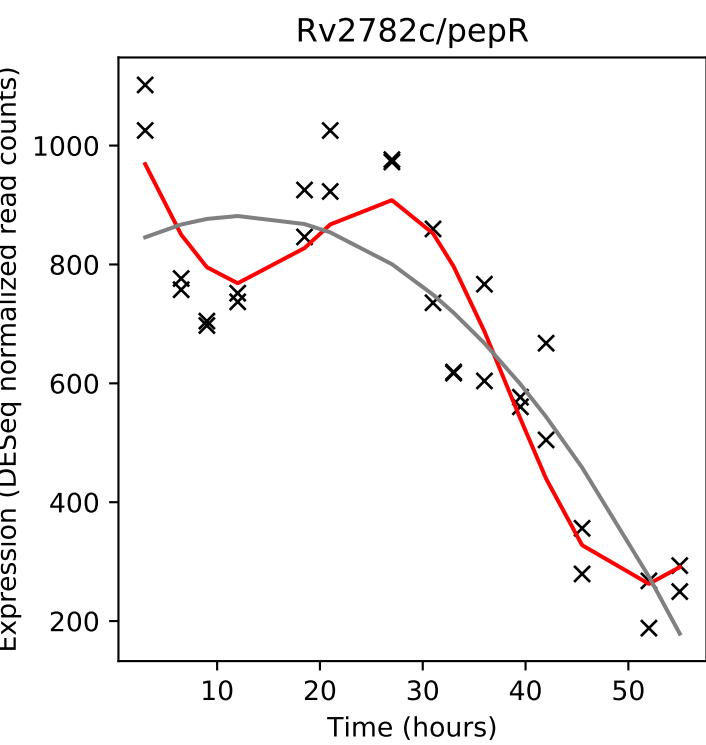
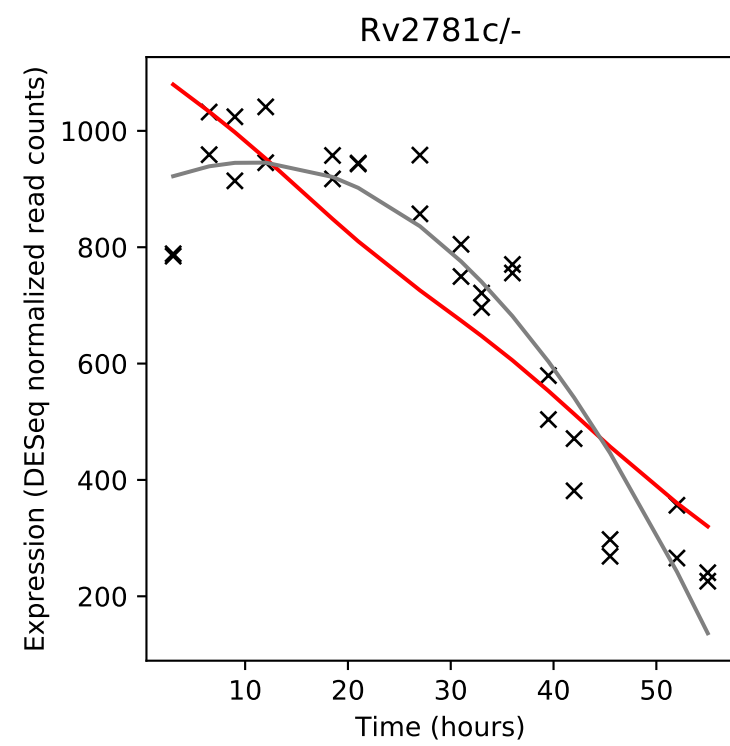
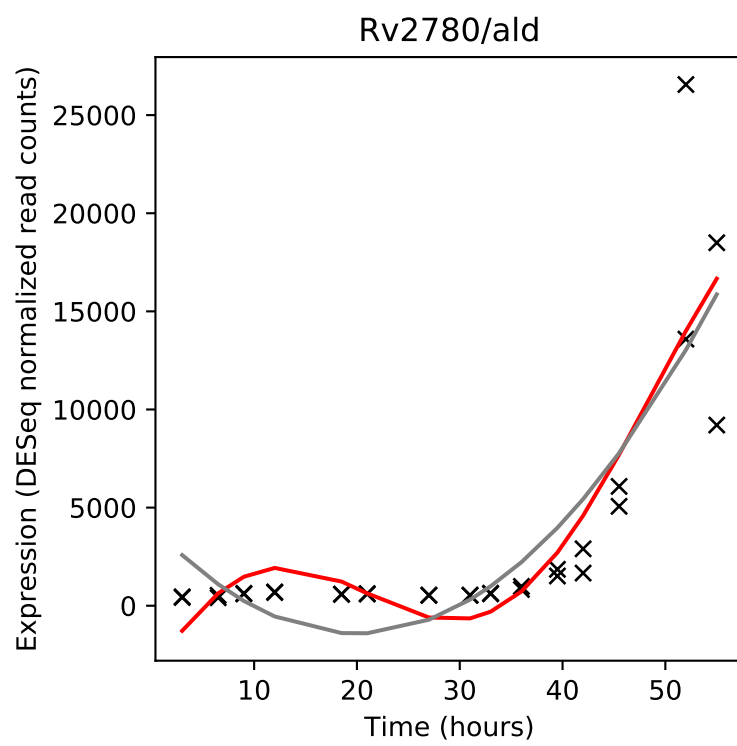
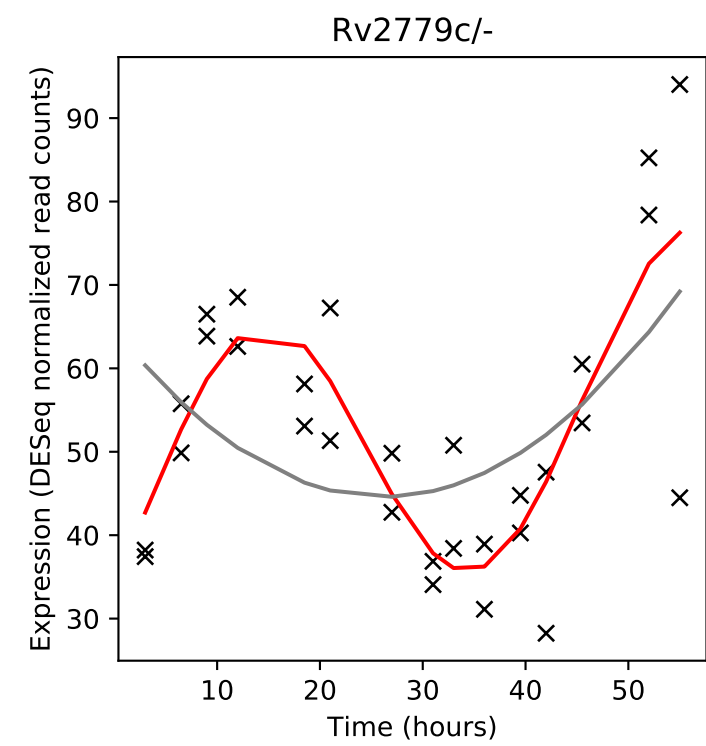
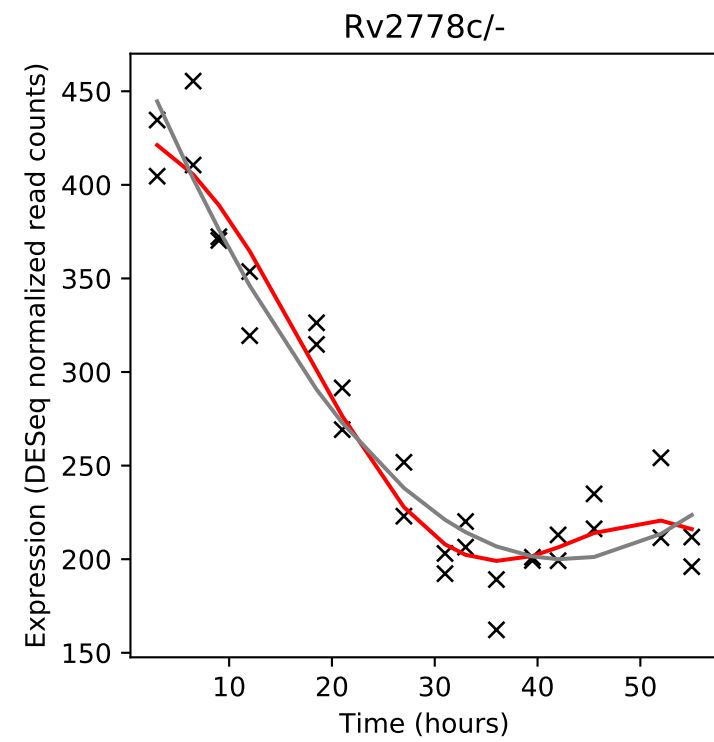
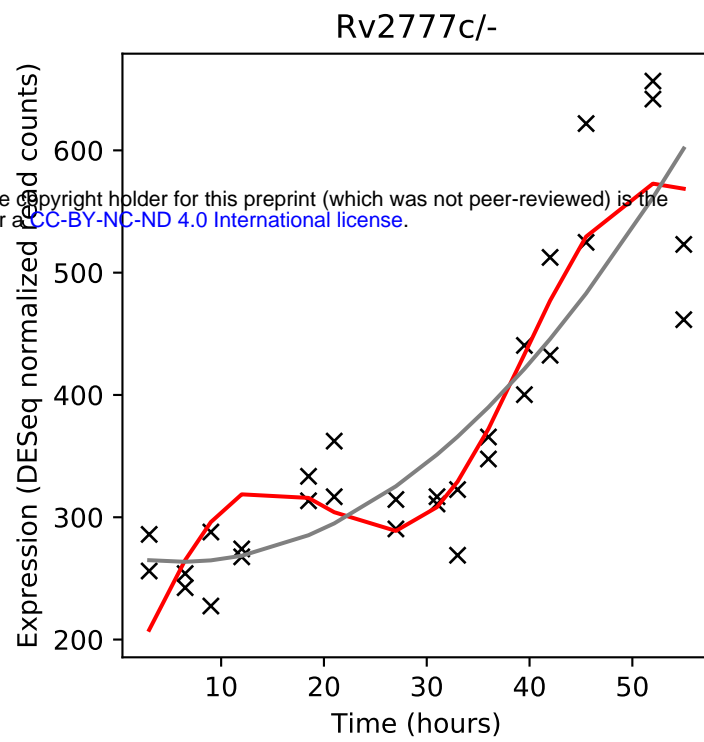
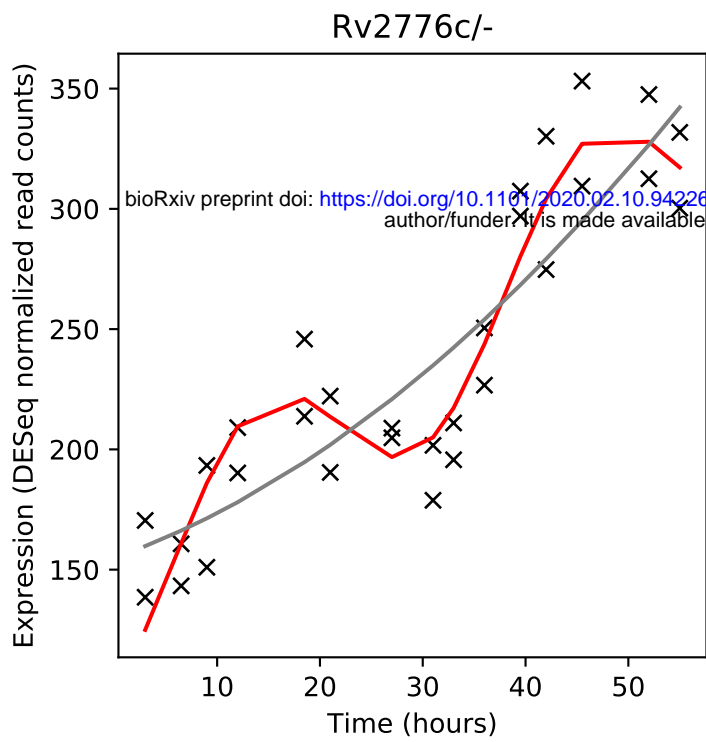


Rv2774c/-

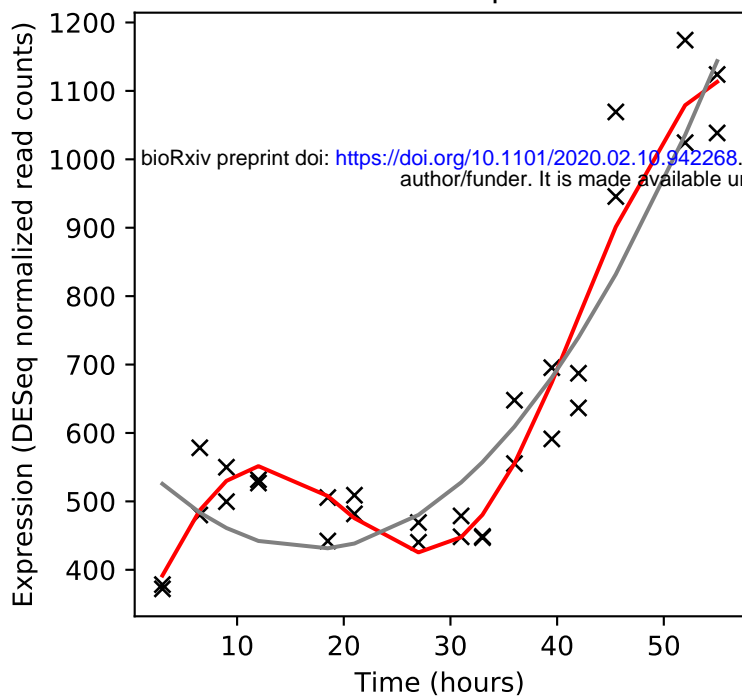


Rv2775c/-

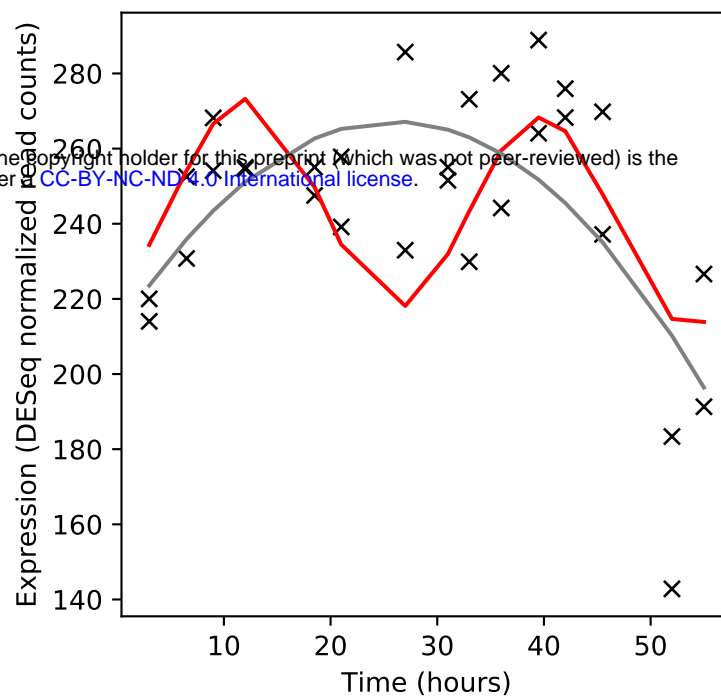




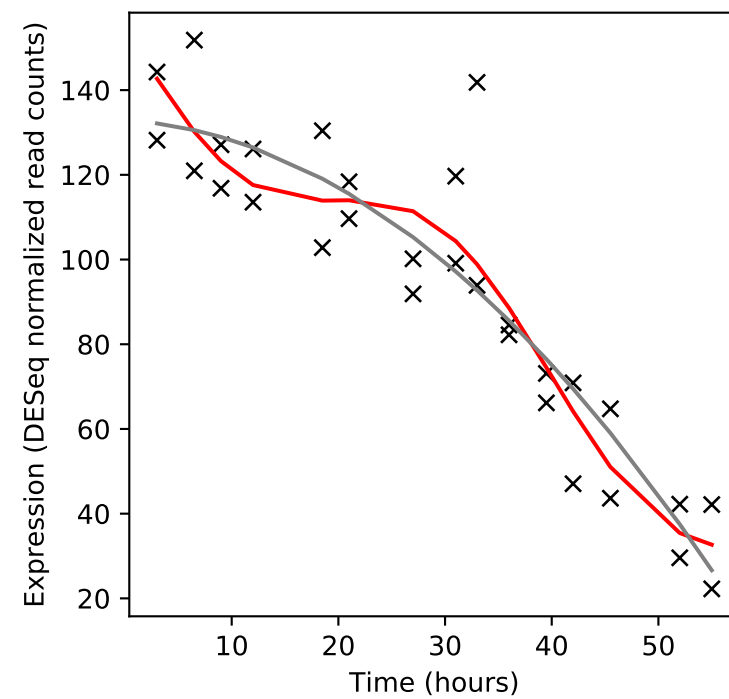
Rv2785c/rpsO



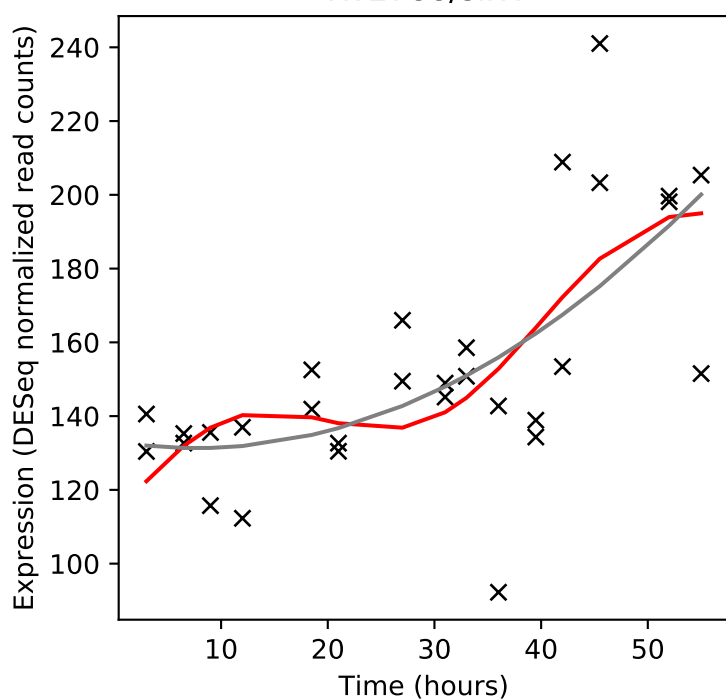
Rv2786c/ribF



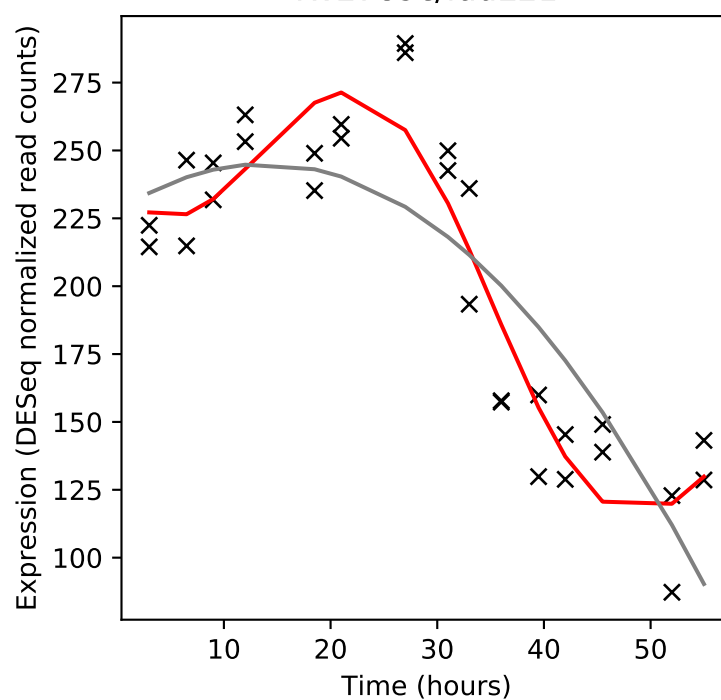
Rv2787/-



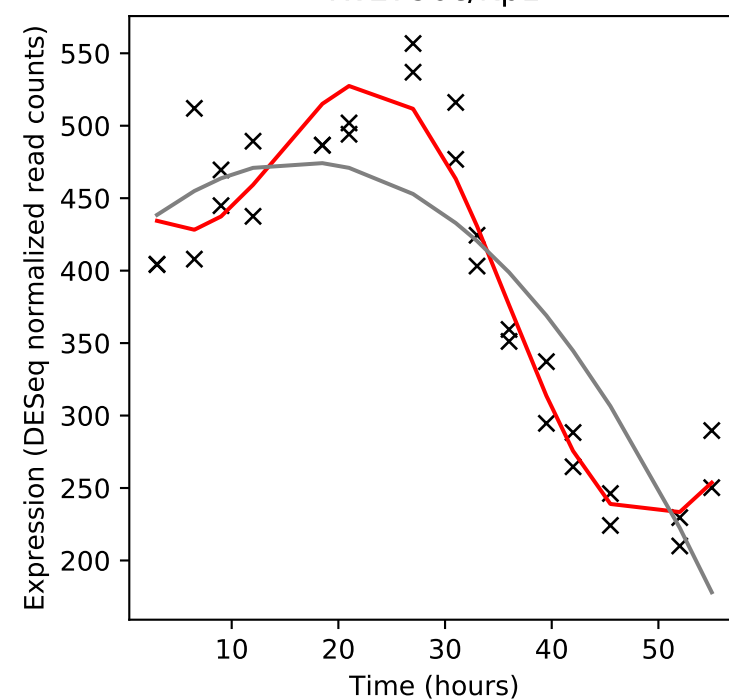
Rv2788/sirR



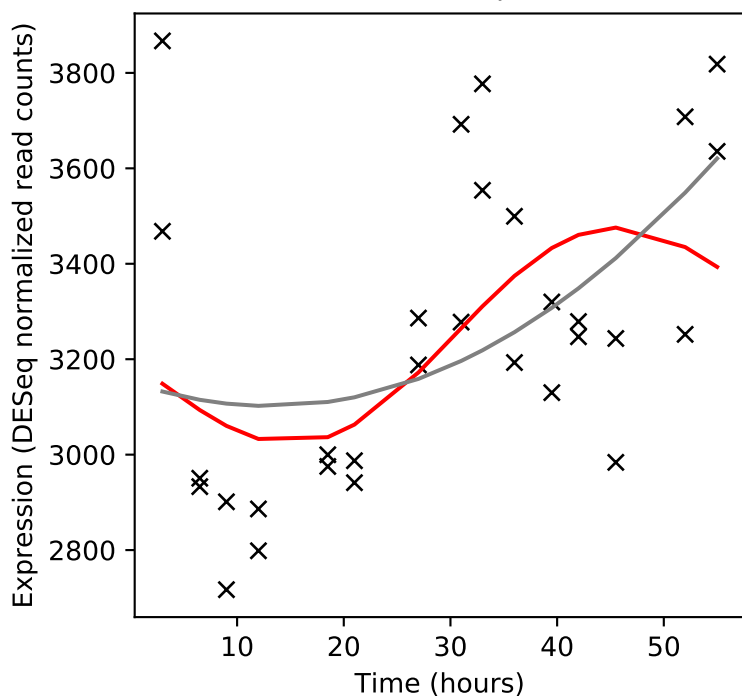
Rv2789c/fadE21



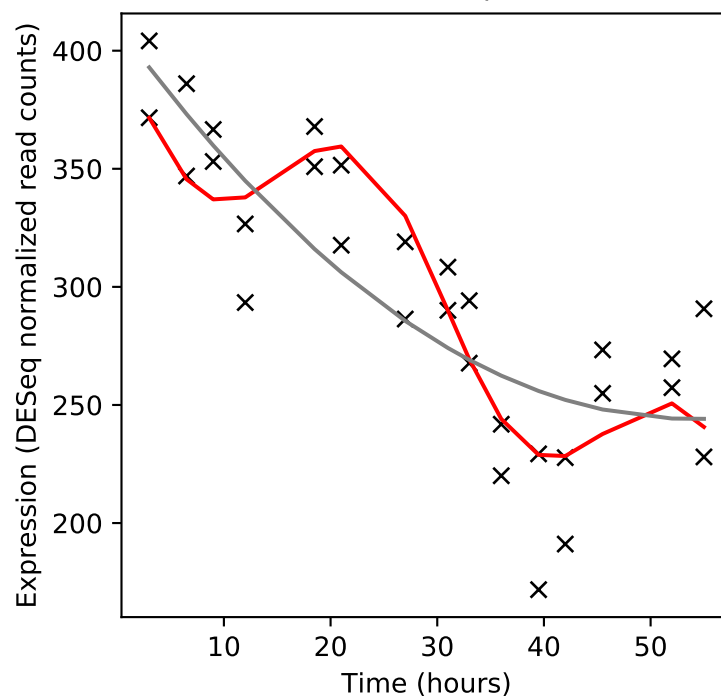
Rv2790c/ltp1



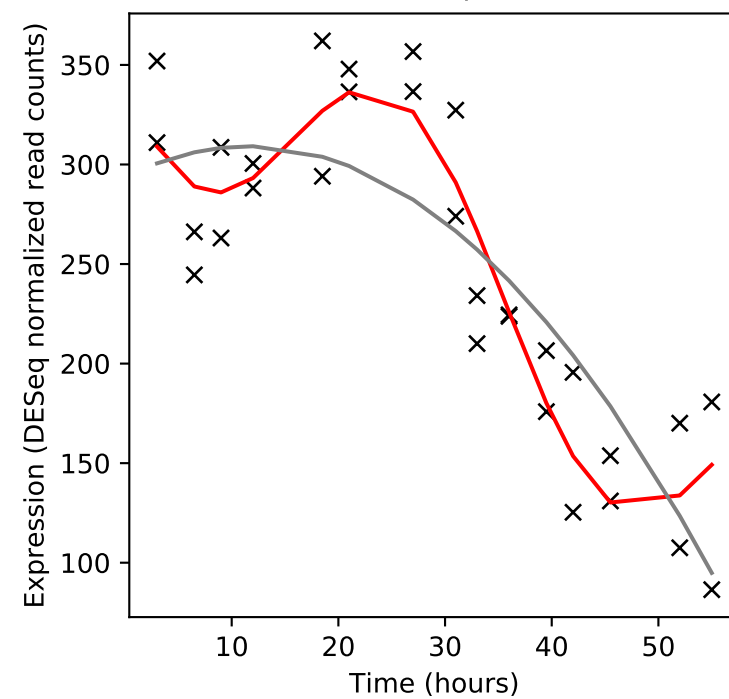
Rv2791c/-



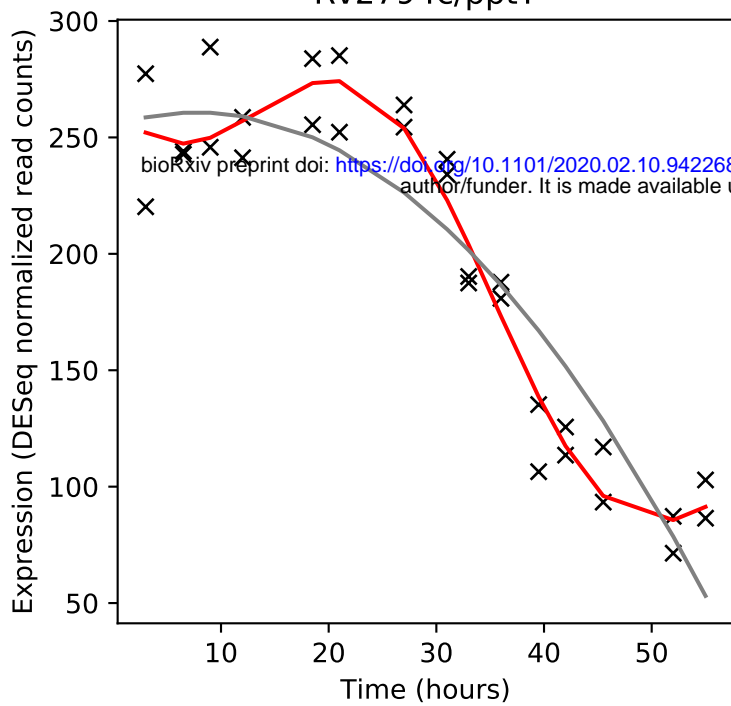
Rv2792c/-



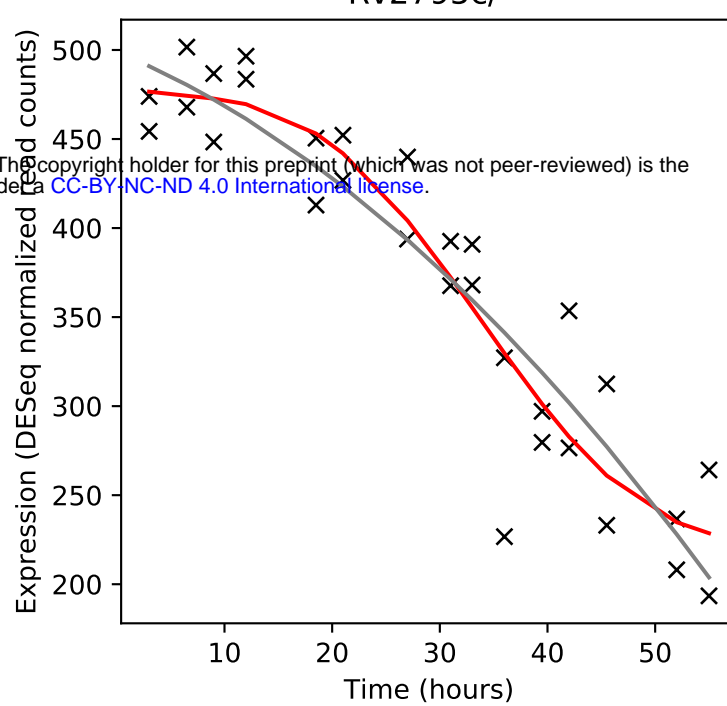
Rv2793c/truB



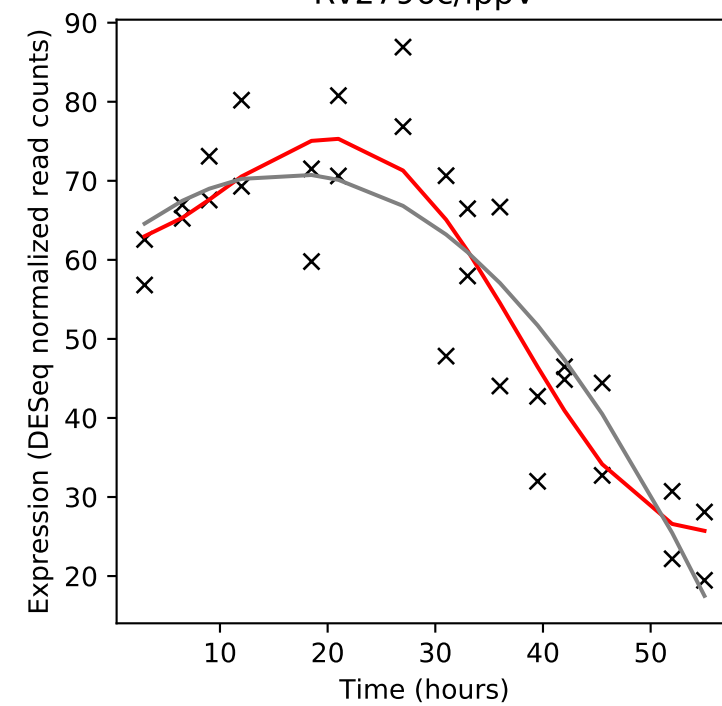
Rv2794c/pptT



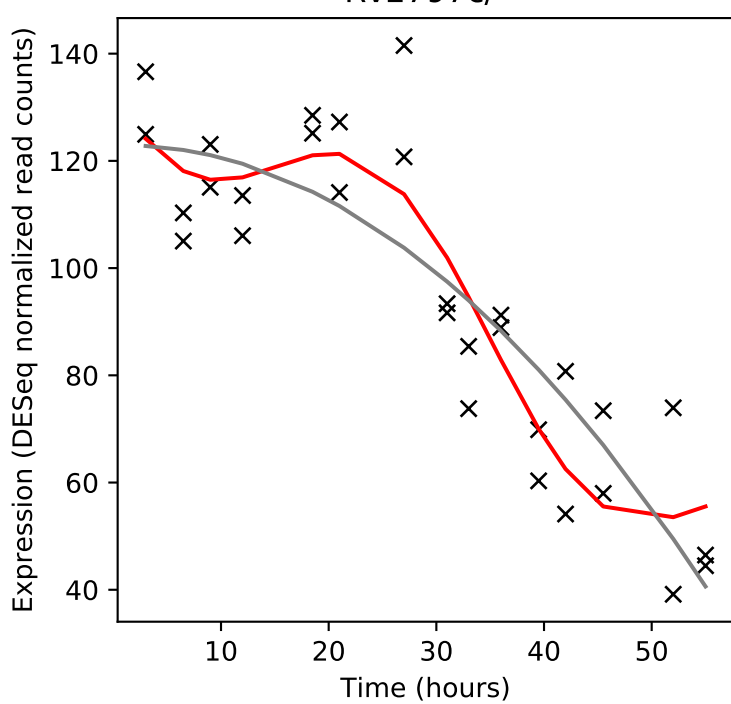
Rv2795c/-



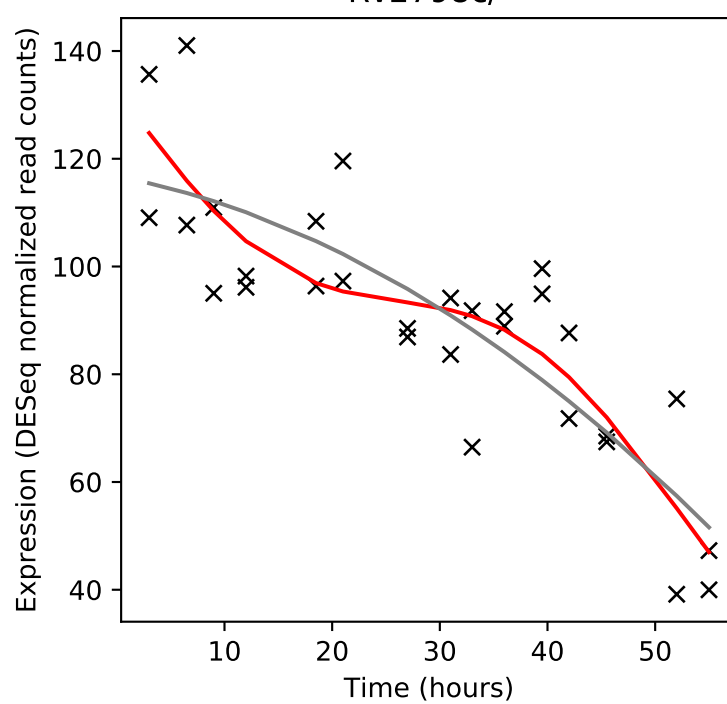
Rv2796c/lppV



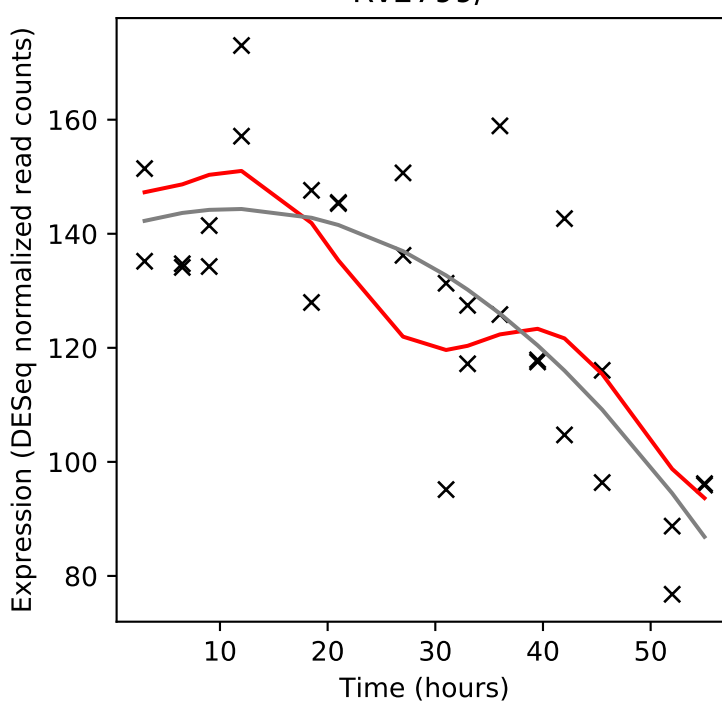
Rv2797c/-



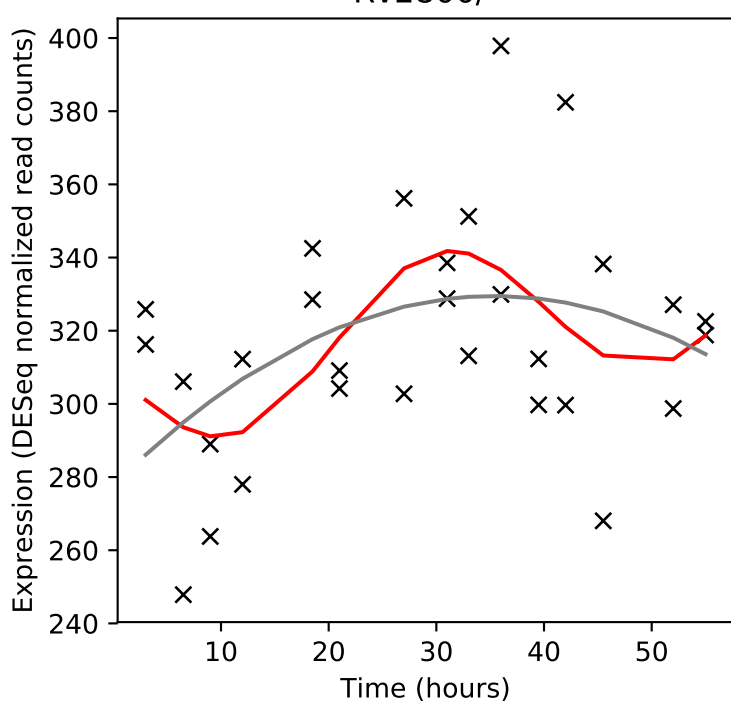
Rv2798c/-



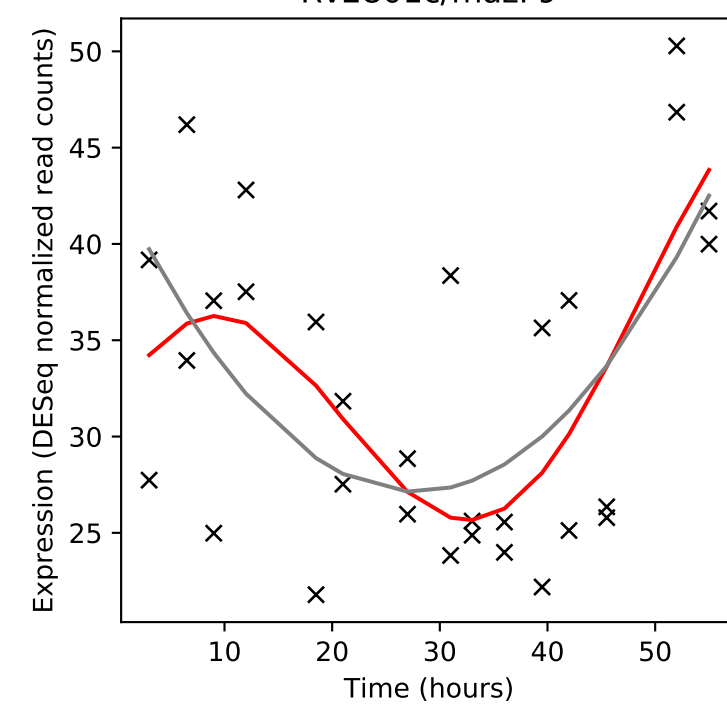
Rv2799/-



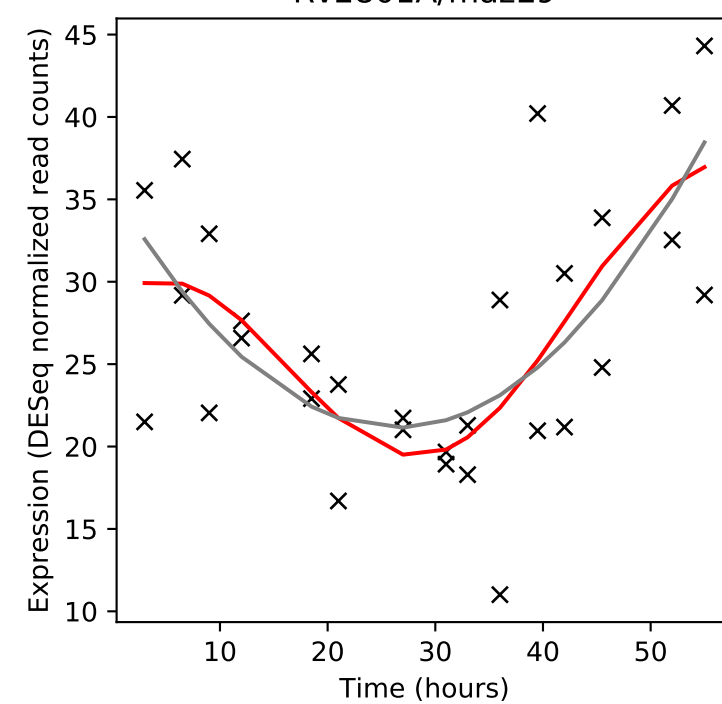
Rv2800/-



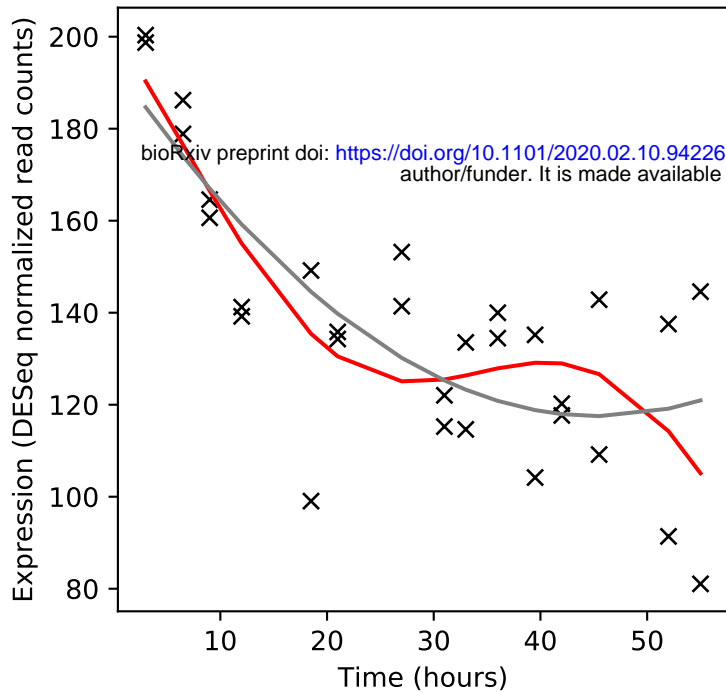
Rv2801c/mazF9



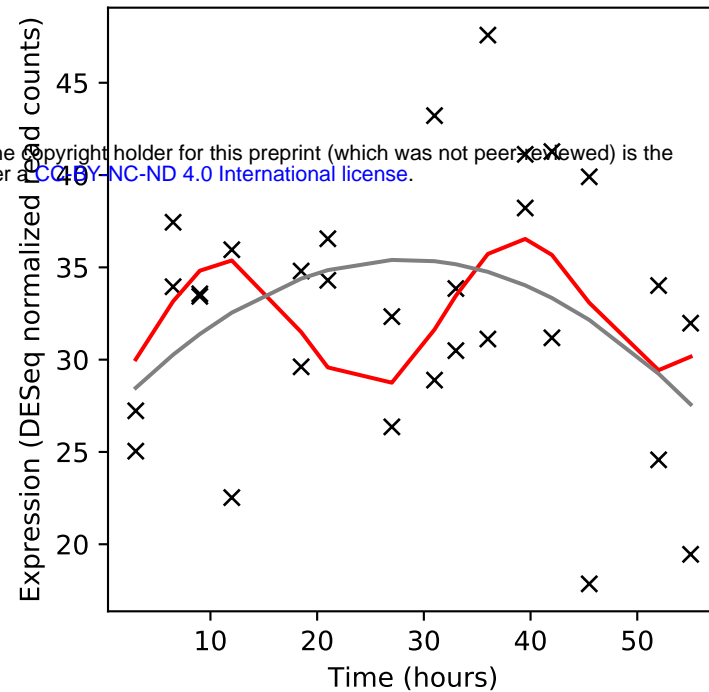
Rv2801A/mazE9



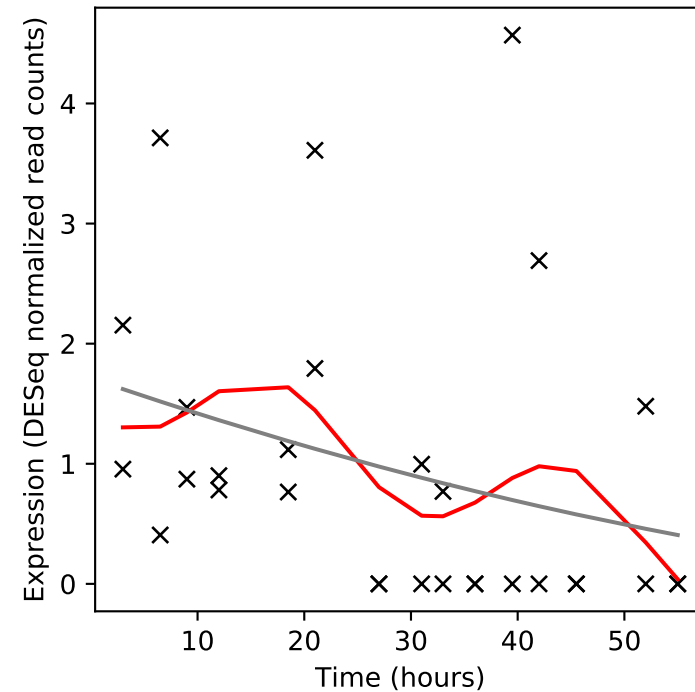
Rv2802c/-



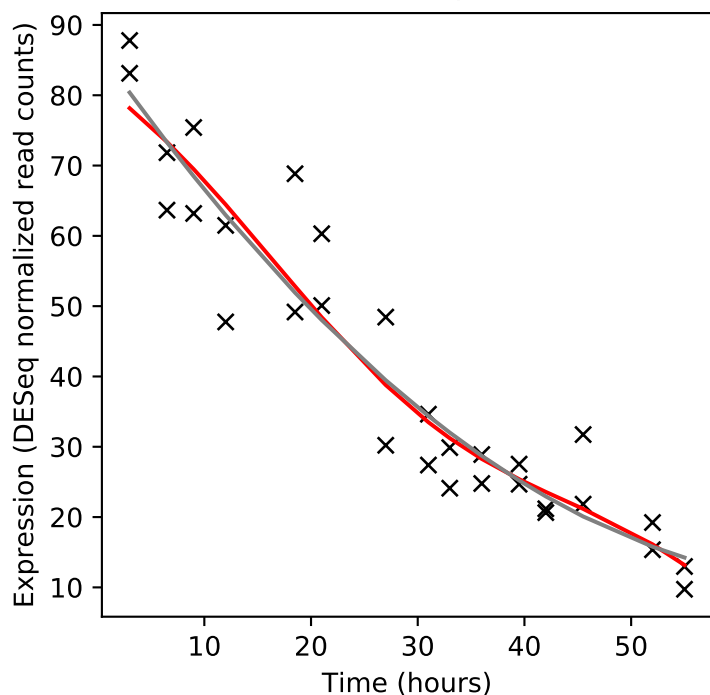
Rv2803/-



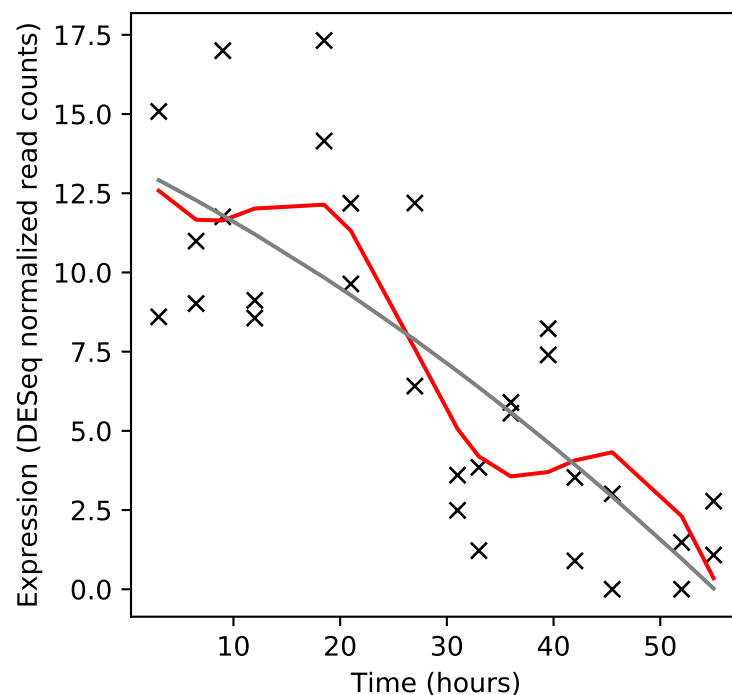
Rv2804c/-



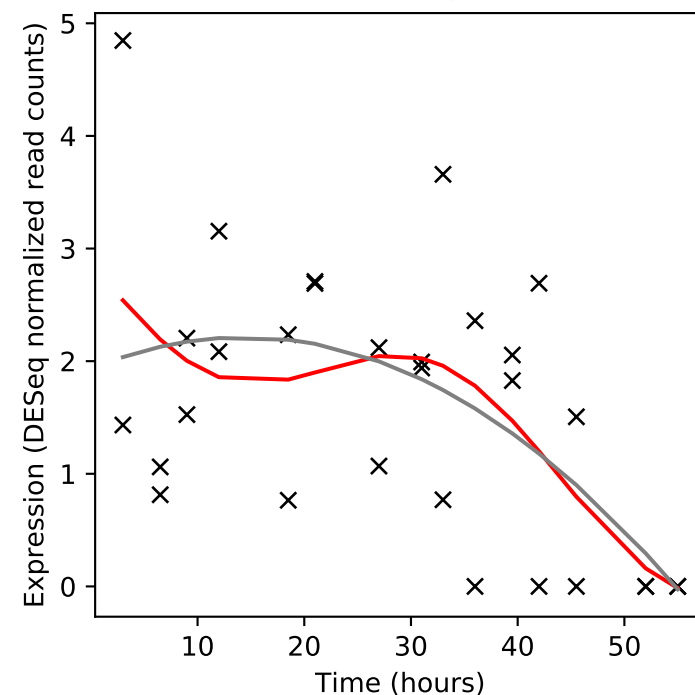
Rv2805/-



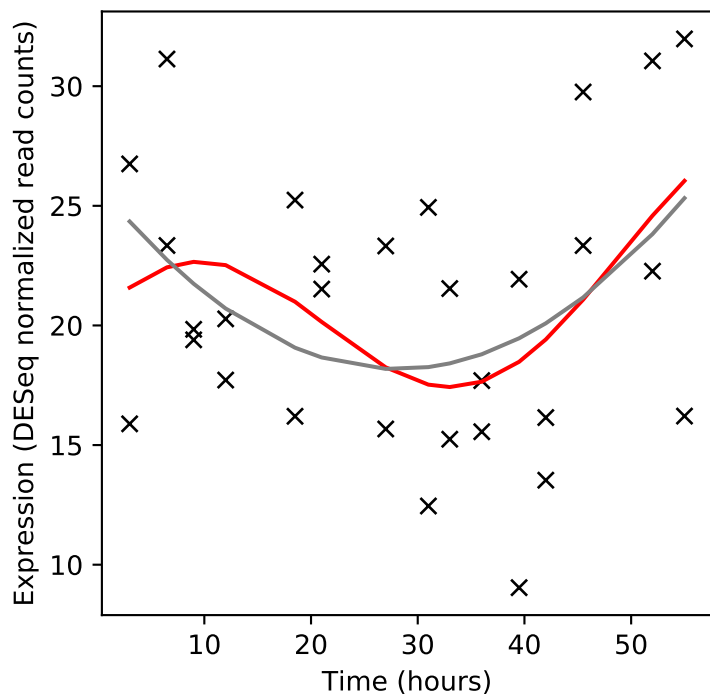
Rv2806/-



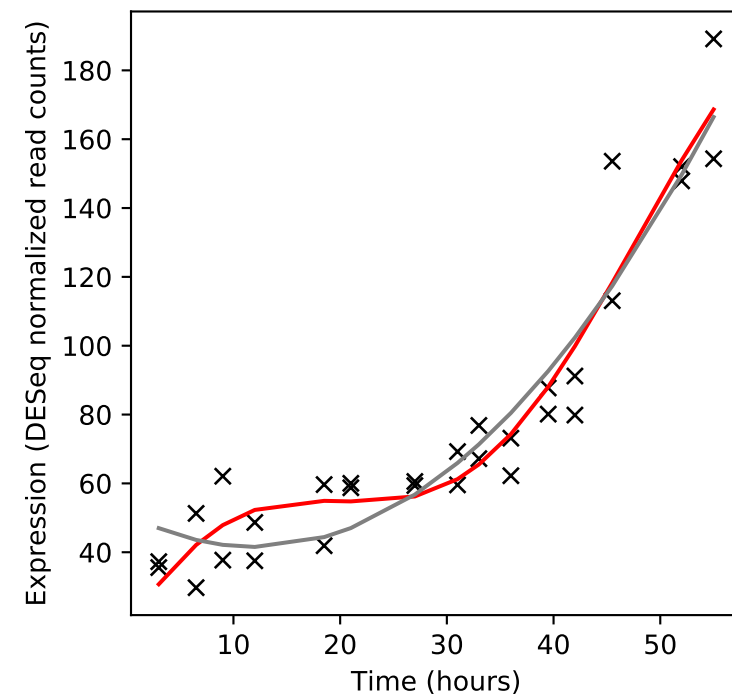
Rv2807/-



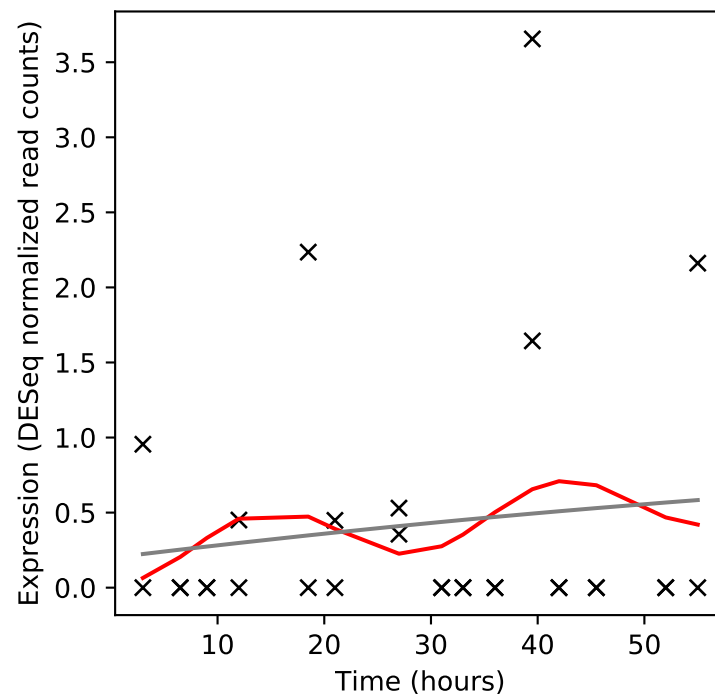
Rv2808/-



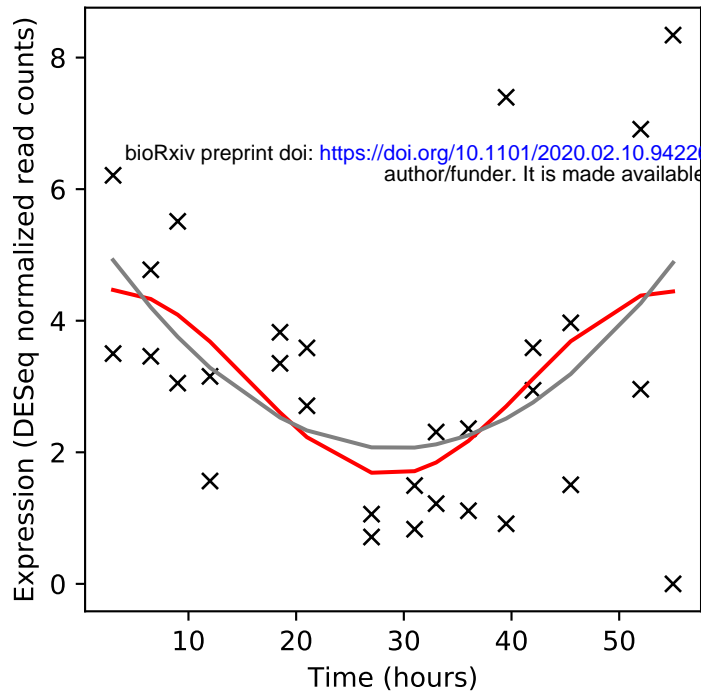
Rv2809/-



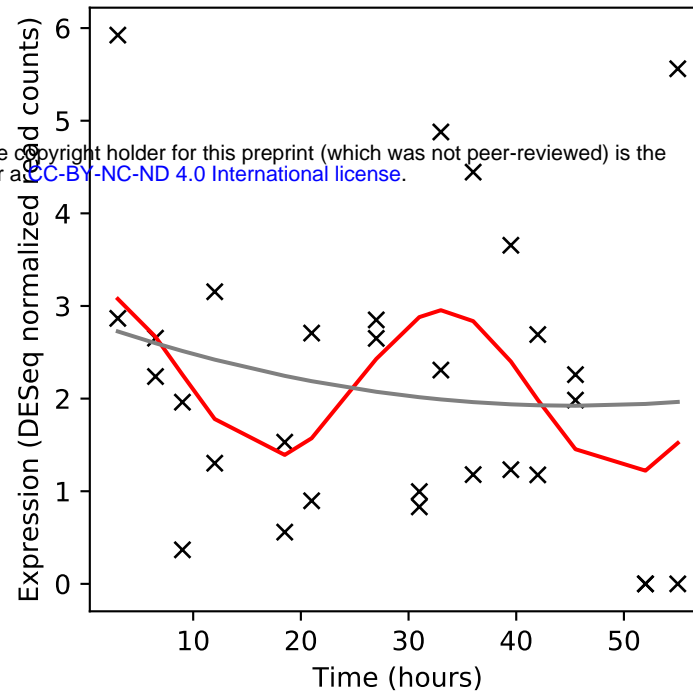
Rv2810c/-



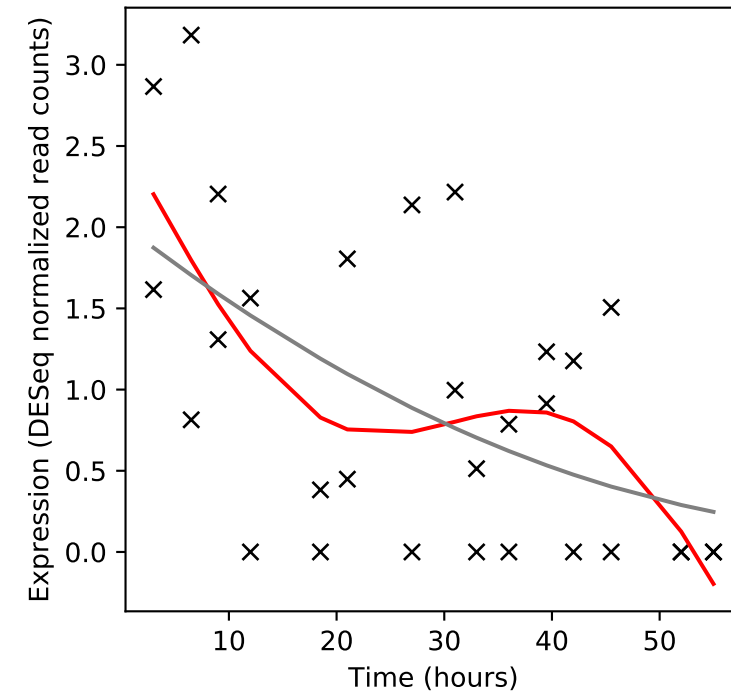
Rv2811c/-



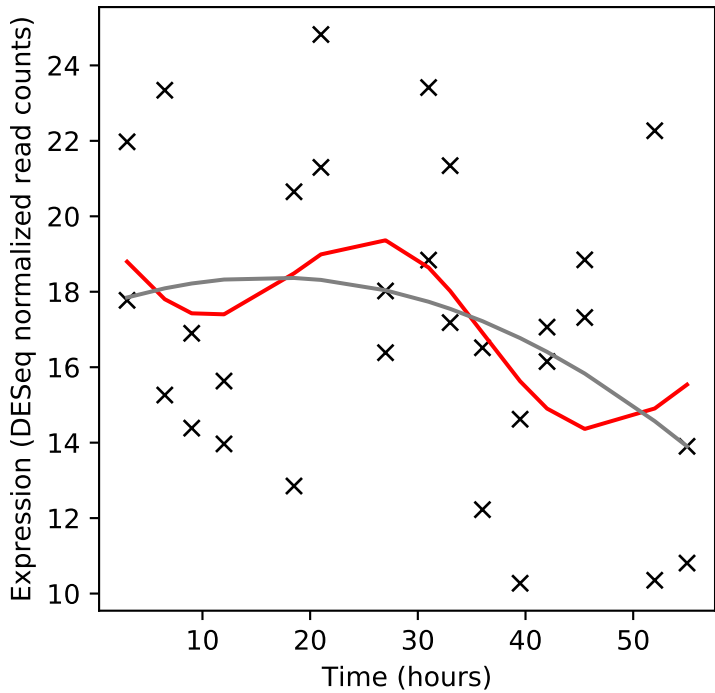
Rv2812c/-



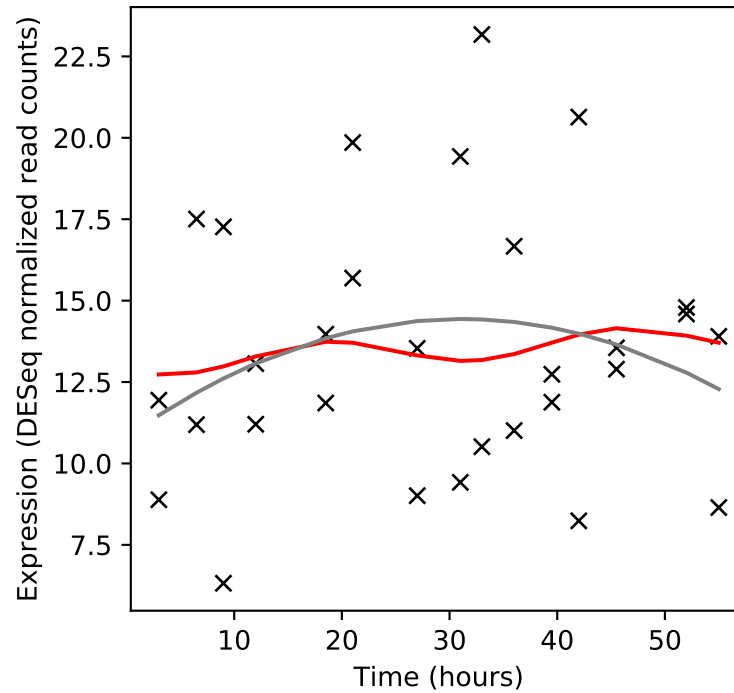
Rv2813c/-



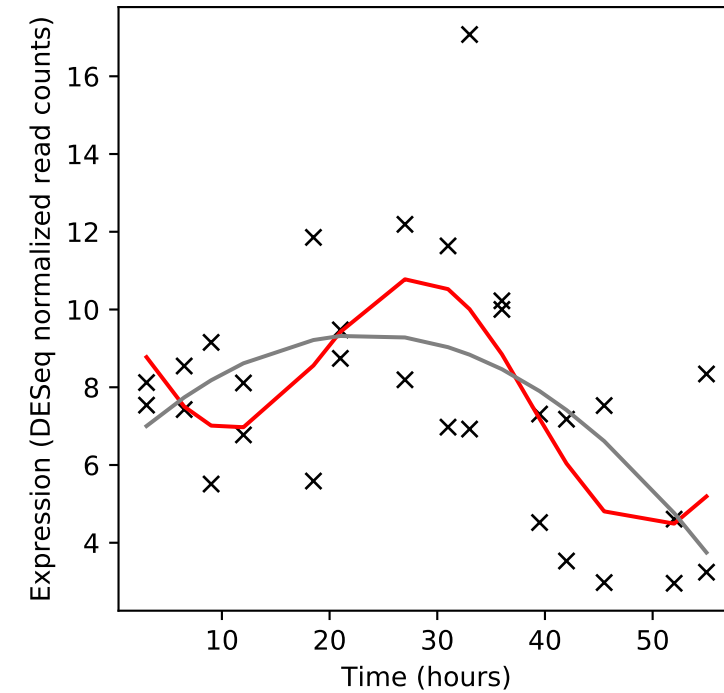
Rv2814c/-



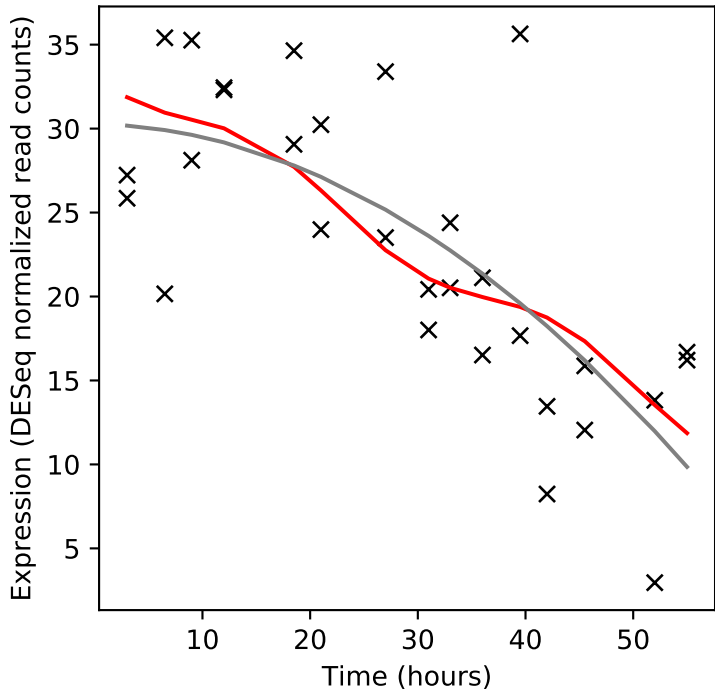
Rv2815c/-



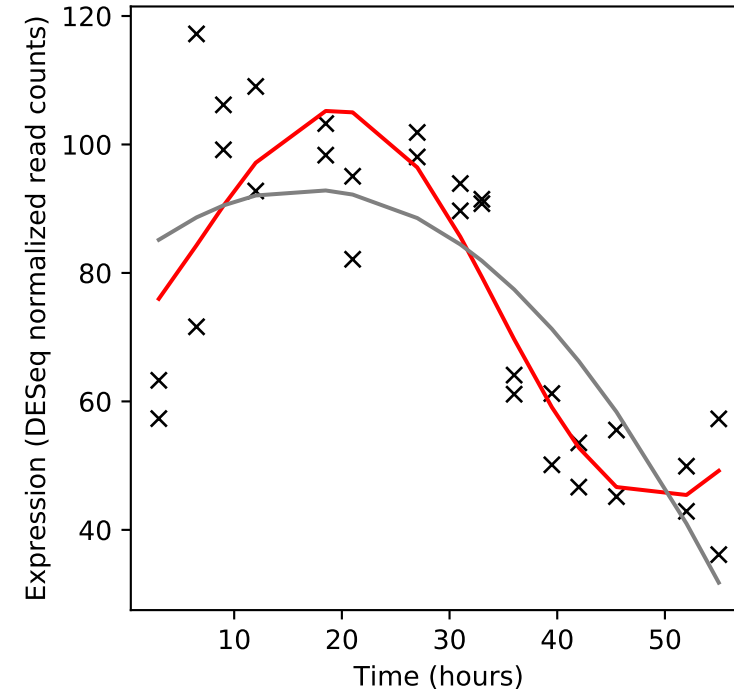
Rv2816c/-



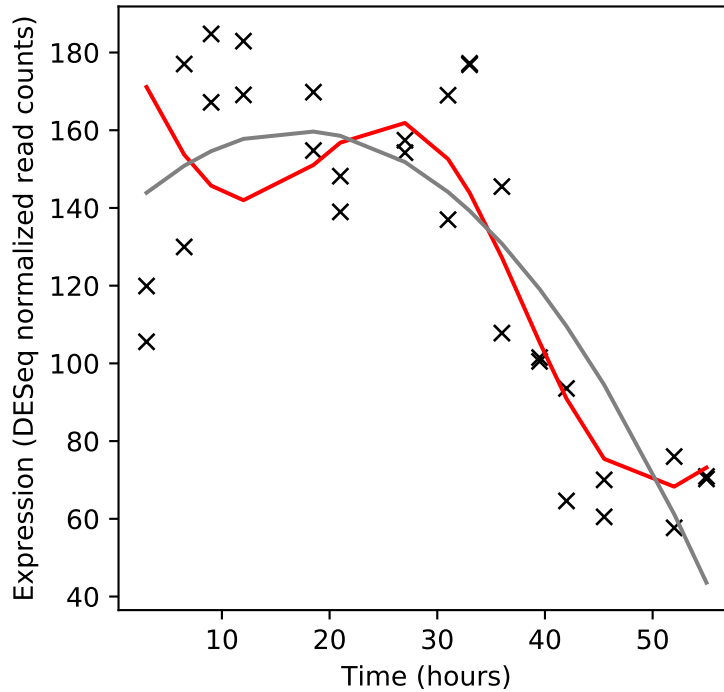
Rv2817c/-



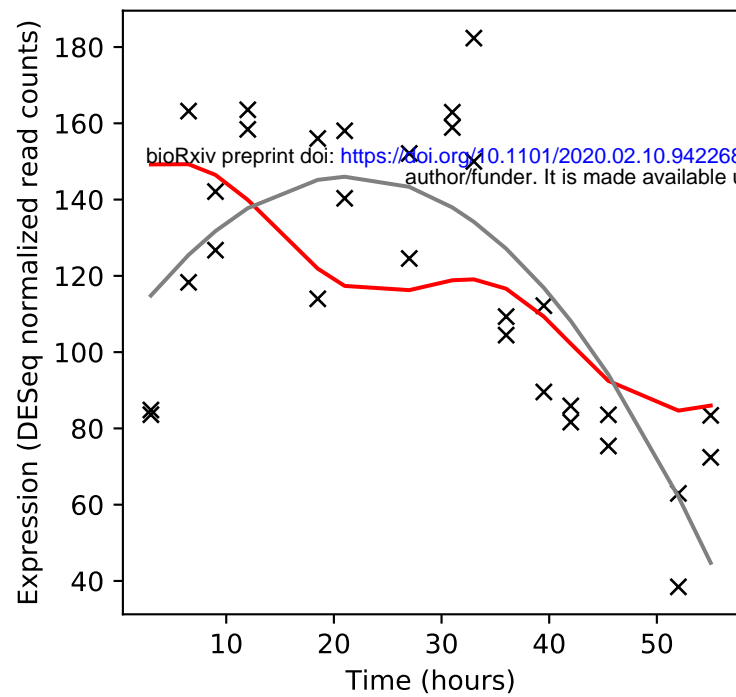
Rv2818c/-



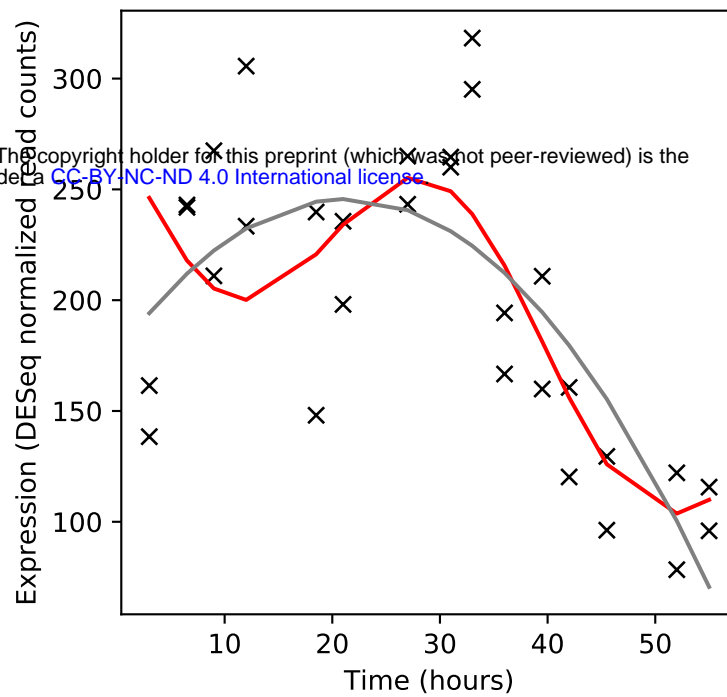
Rv2819c/-



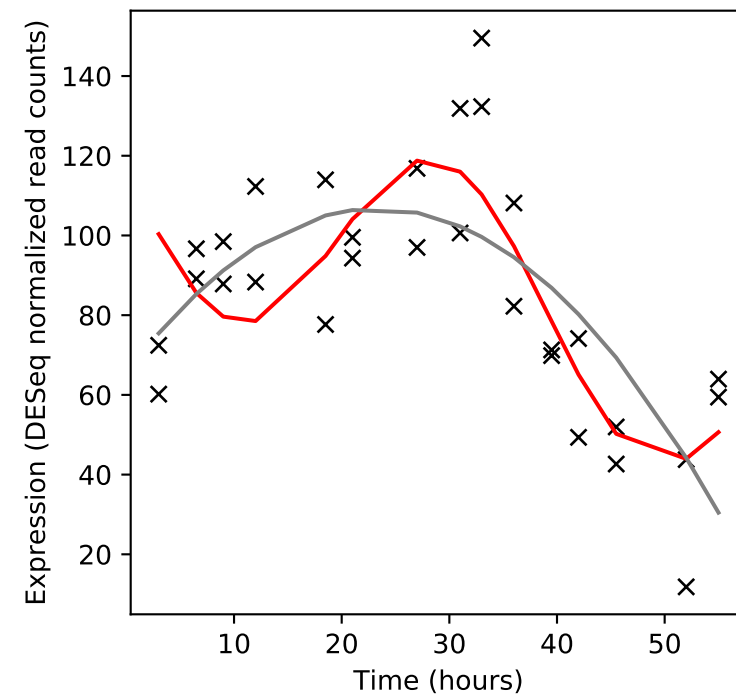
Rv2820c/-



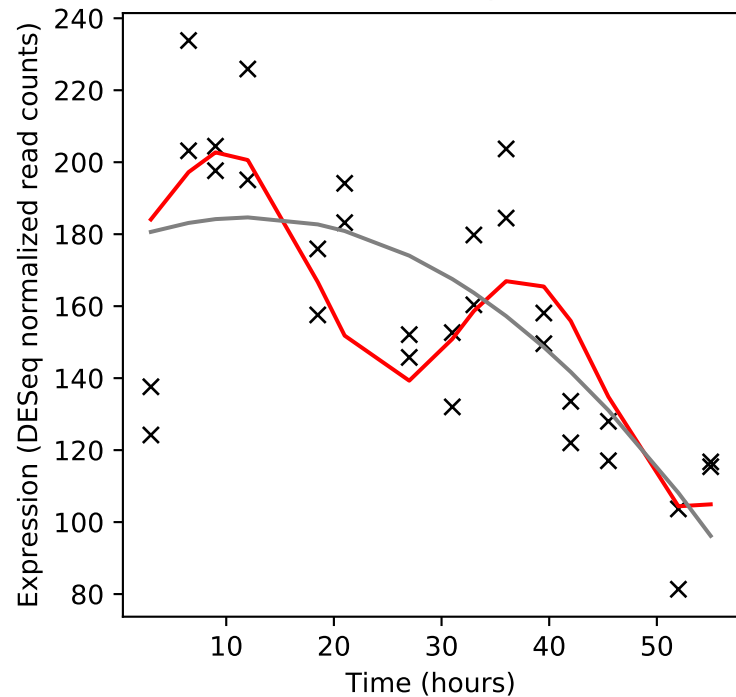
Rv2821c/-



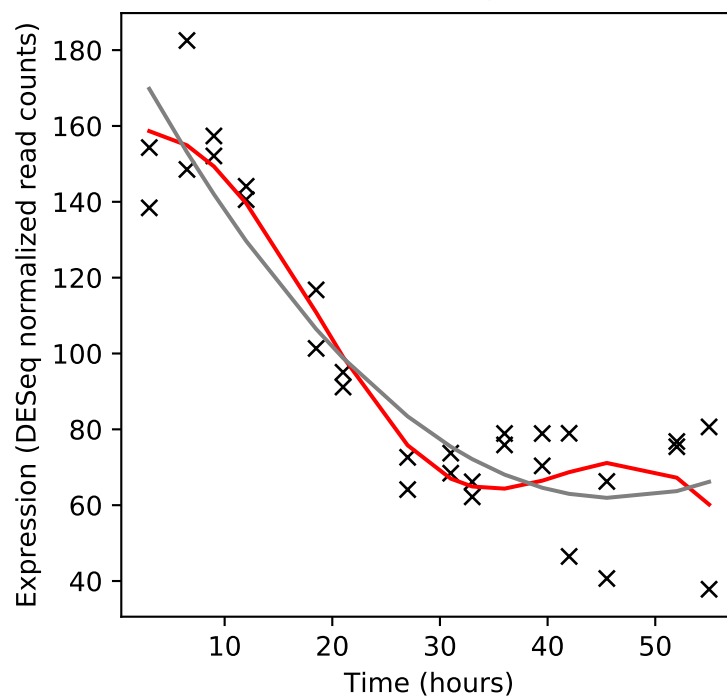
Rv2822c/-



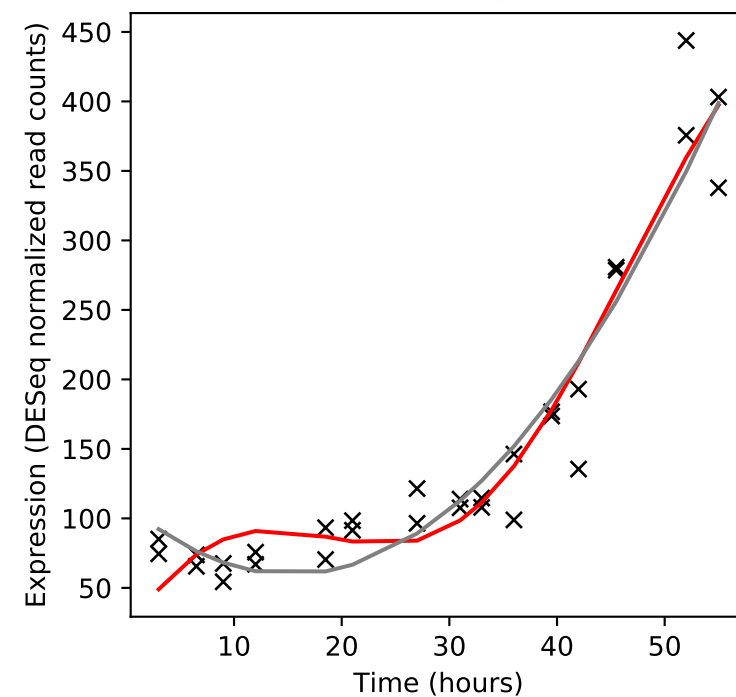
Rv2823c/-



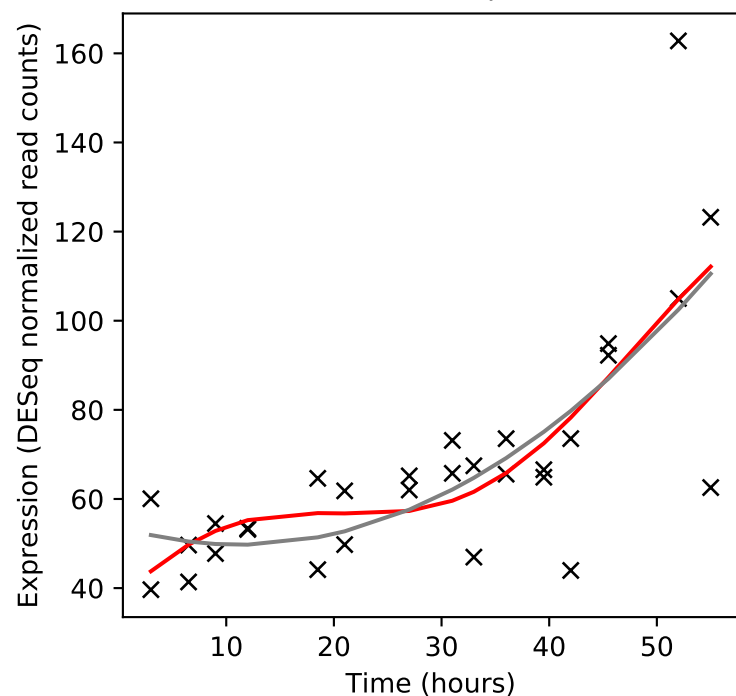
Rv2824c/-



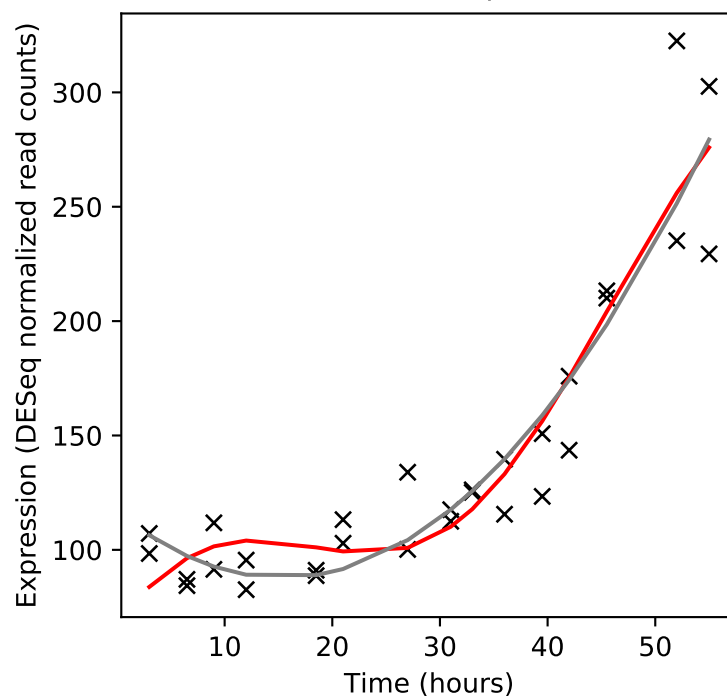
Rv2825c/-



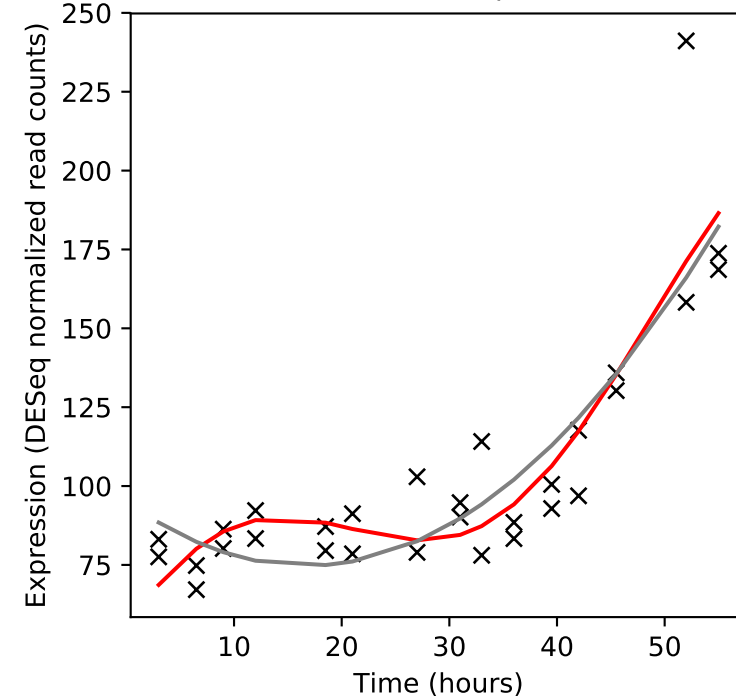
Rv2826c/-



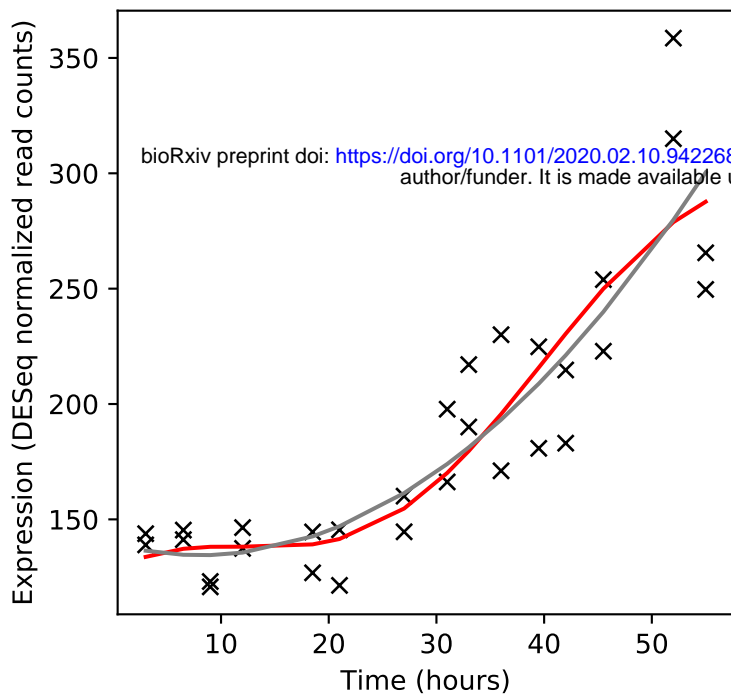
Rv2827c/-



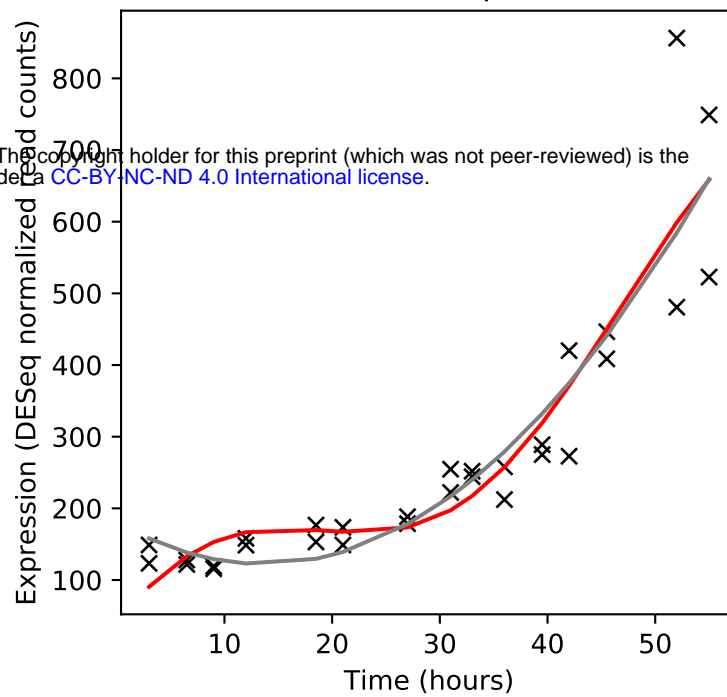
Rv2828c/-



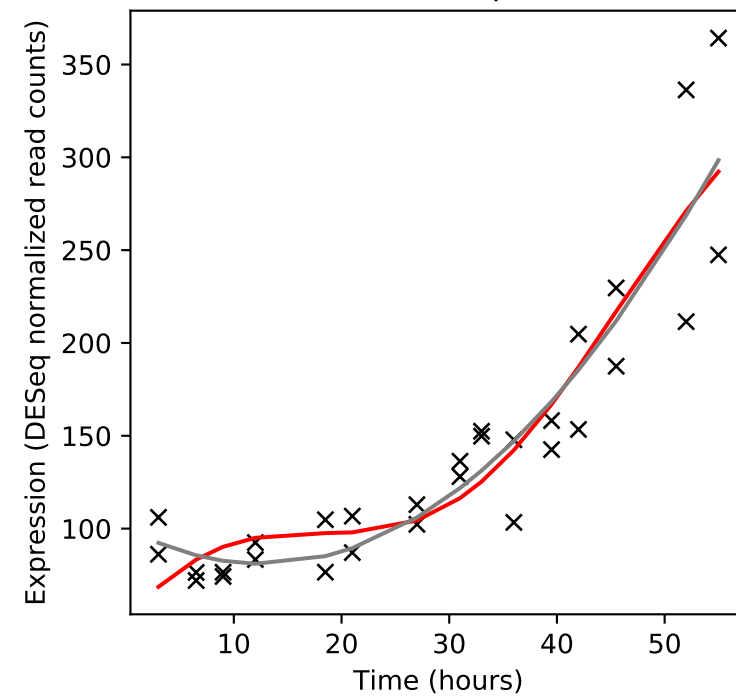
Rv2828A/-



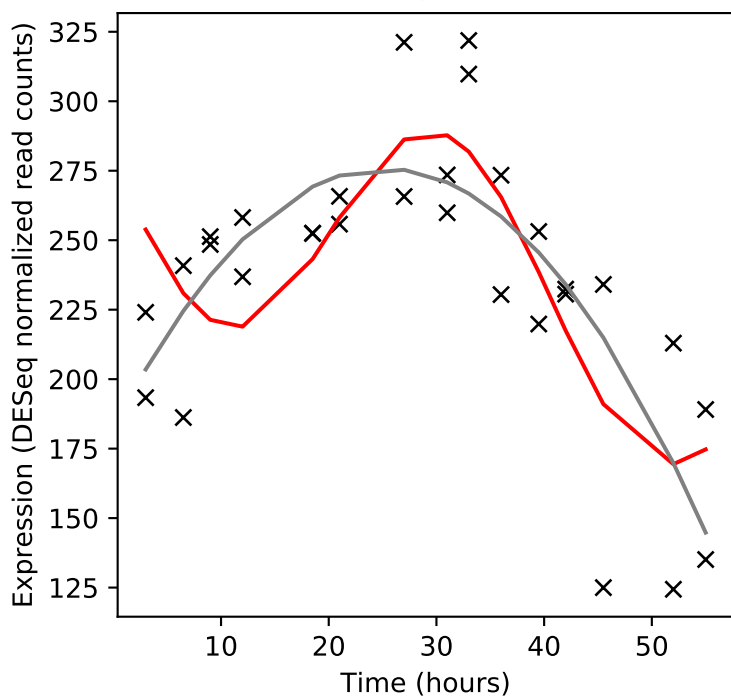
Rv2829c/vapC22



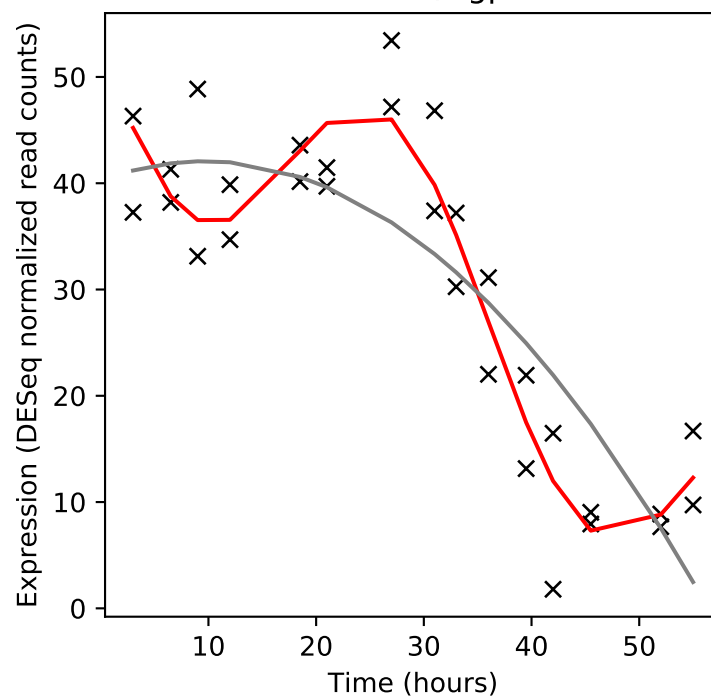
Rv2830c/vapB22



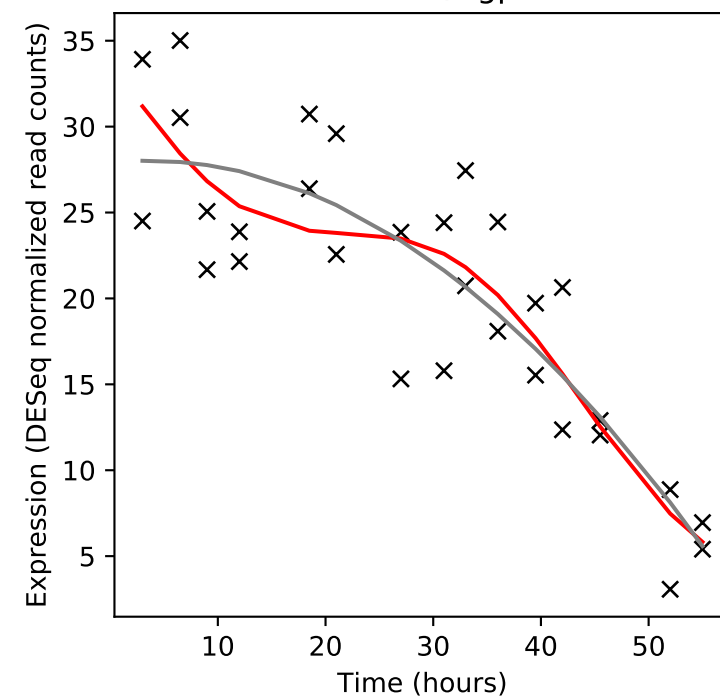
Rv2831/echA16



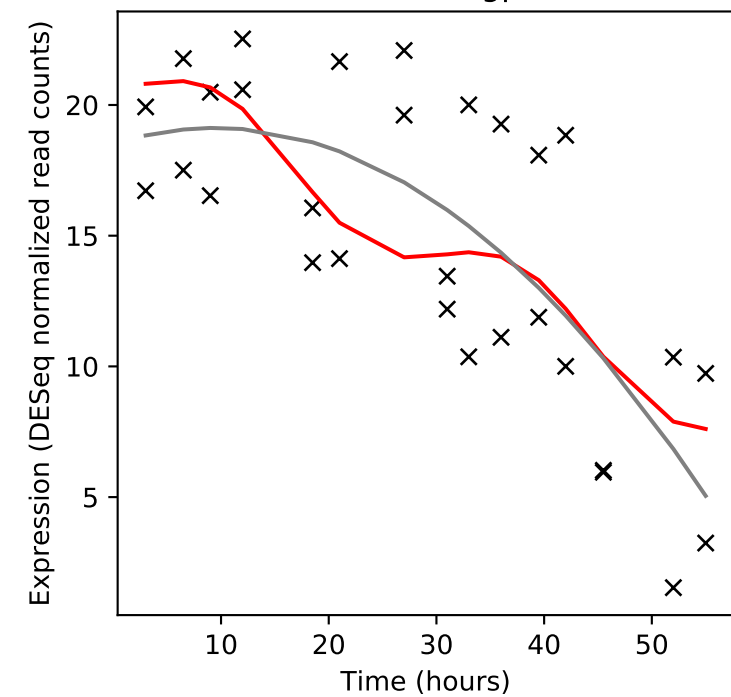
Rv2832c/ugpC



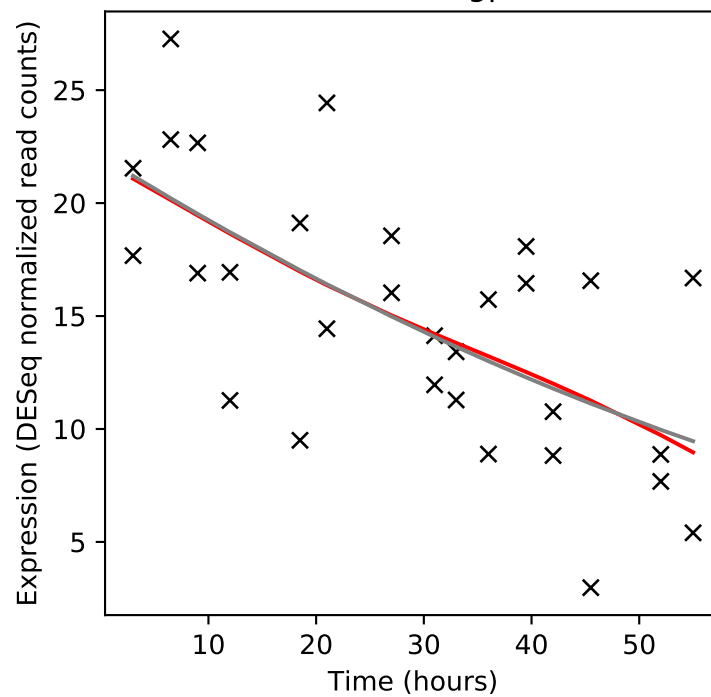
Rv2833c/ugpB



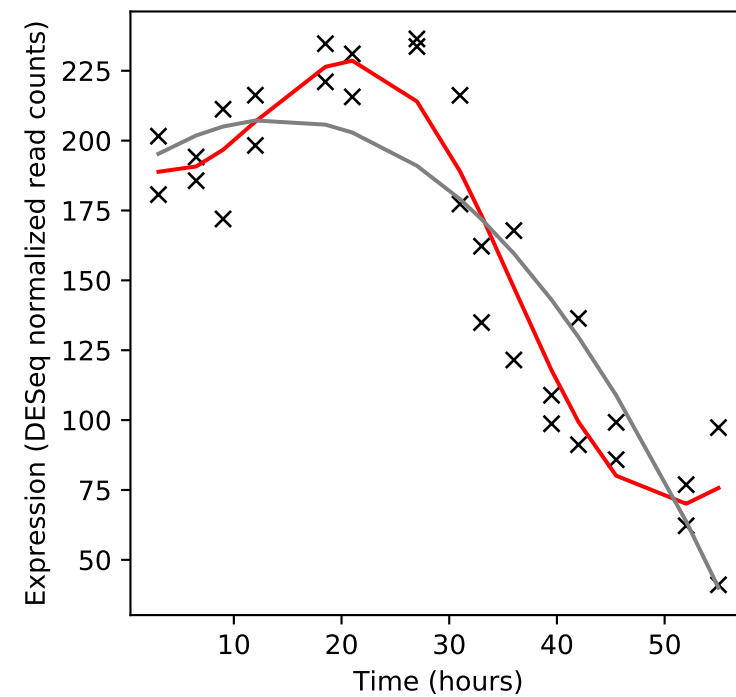
Rv2834c/ugpE



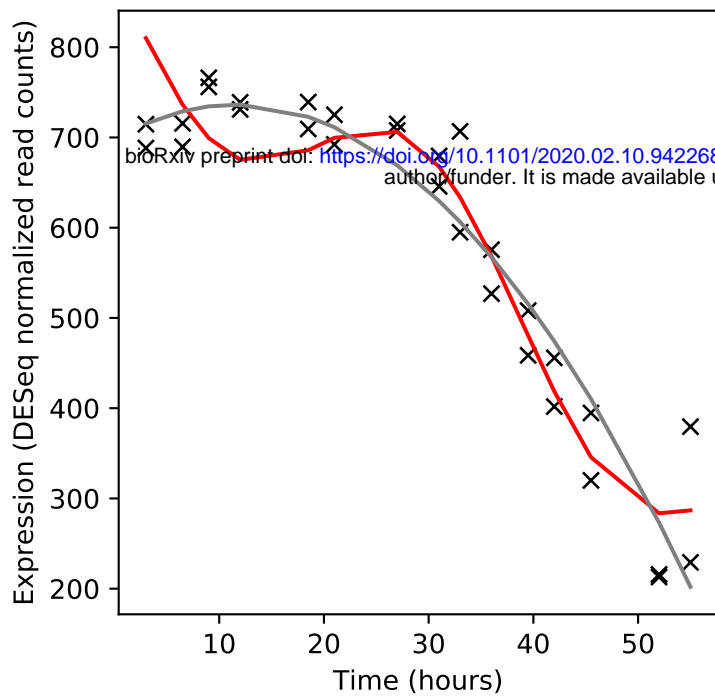
Rv2835c/ugpA



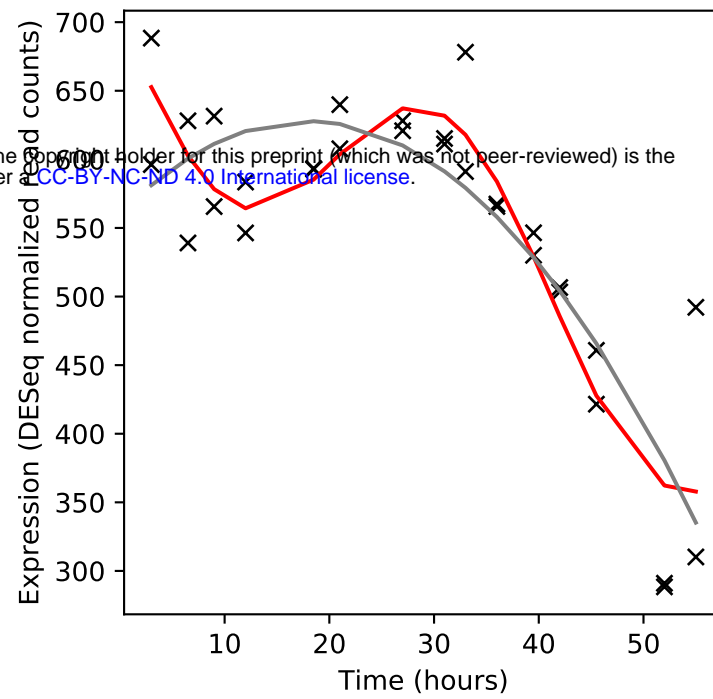
Rv2836c/dinF



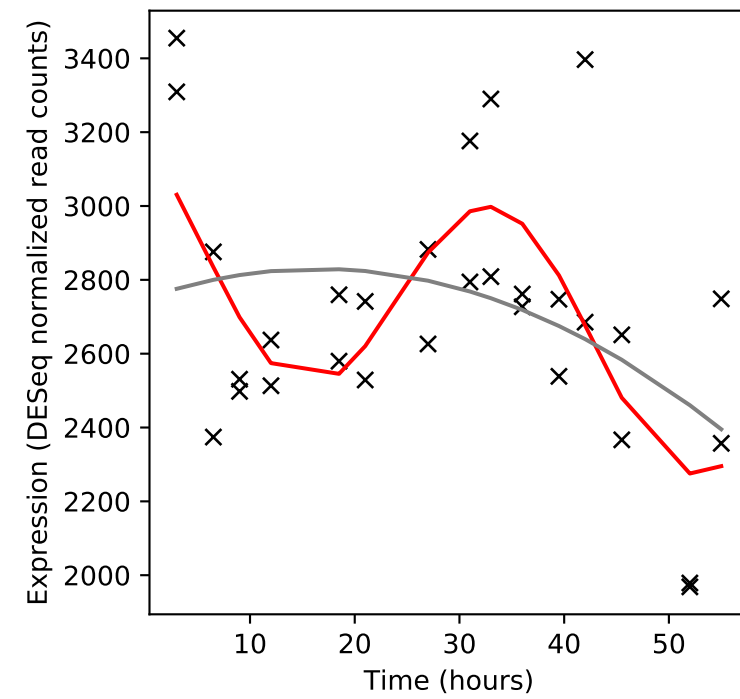
Rv2837c/-



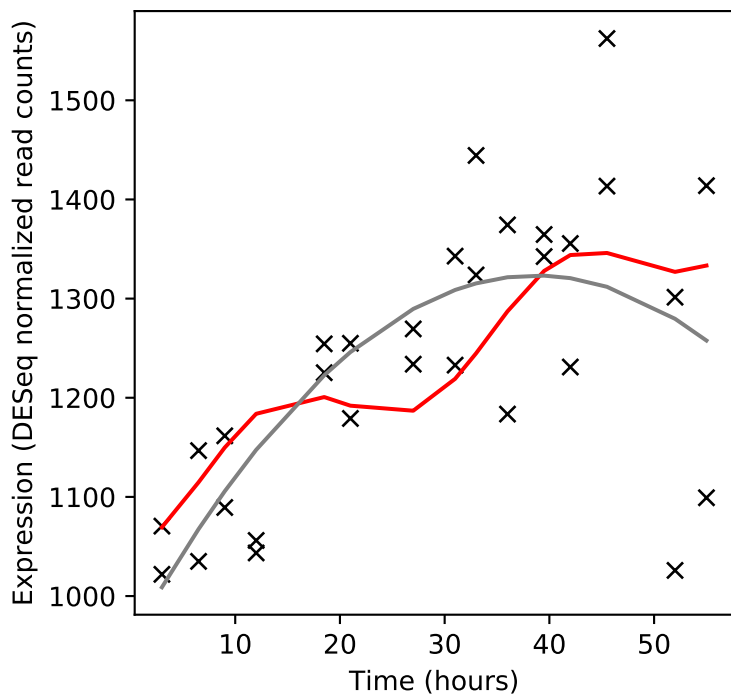
Rv2838c/rbfA



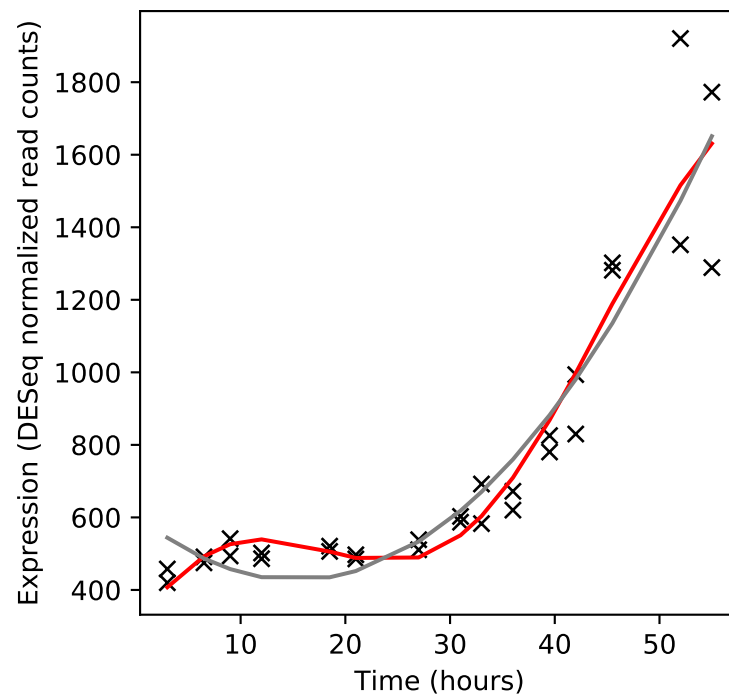
Rv2839c/infB



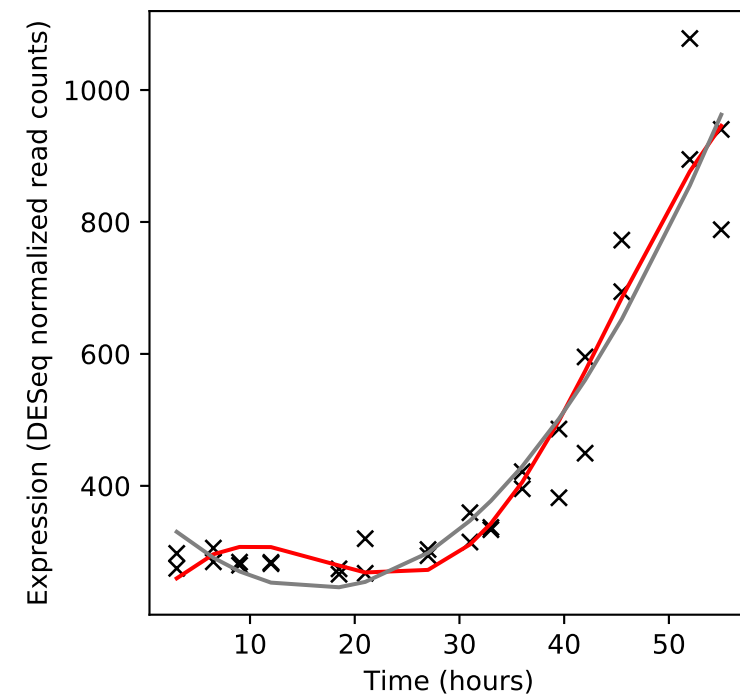
Rv2840c/-



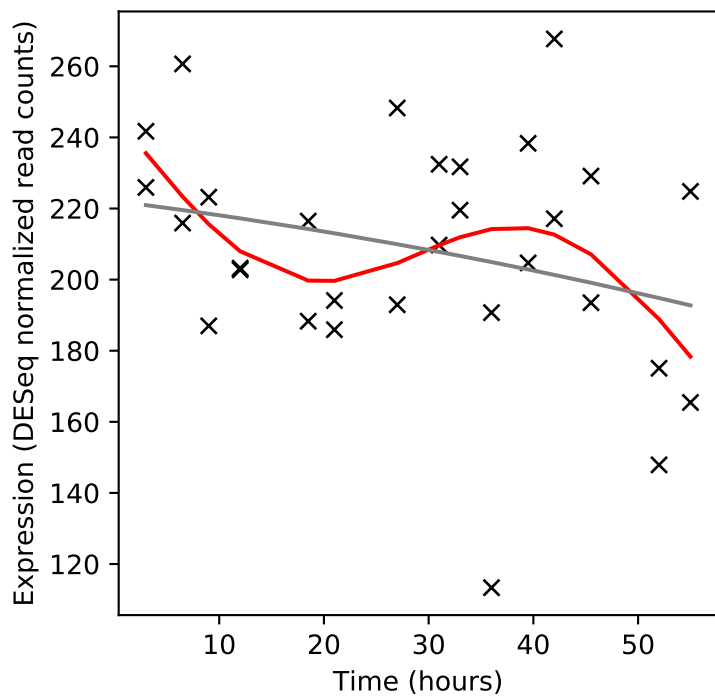
Rv2841c/nusA



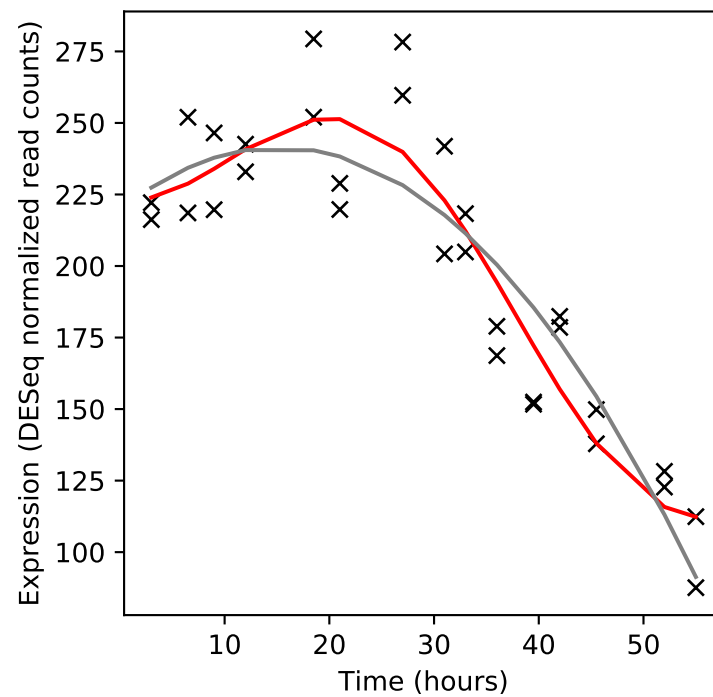
Rv2842c/-



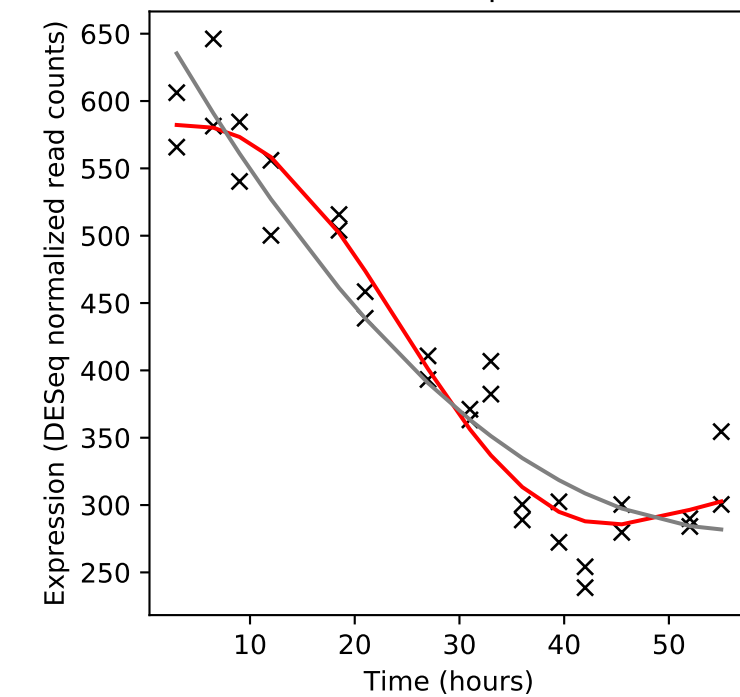
Rv2843/-



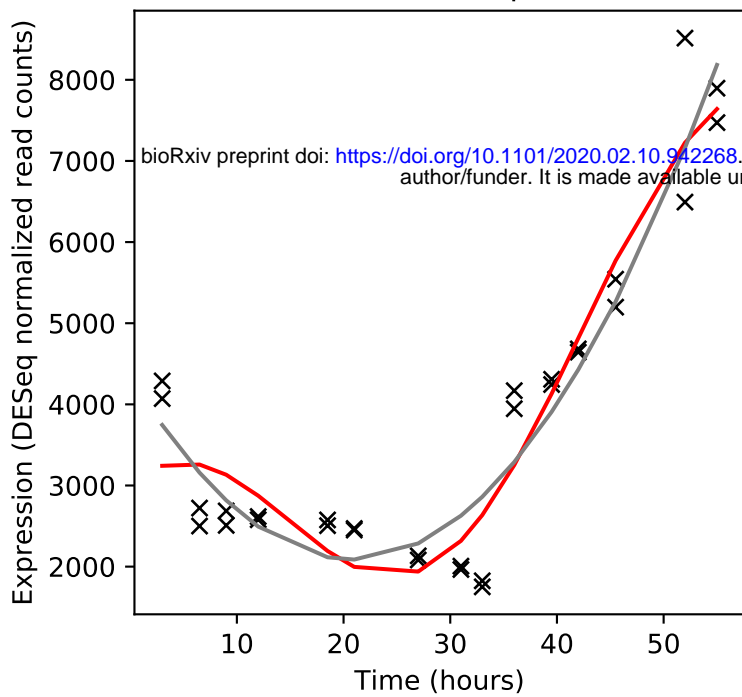
Rv2844/-



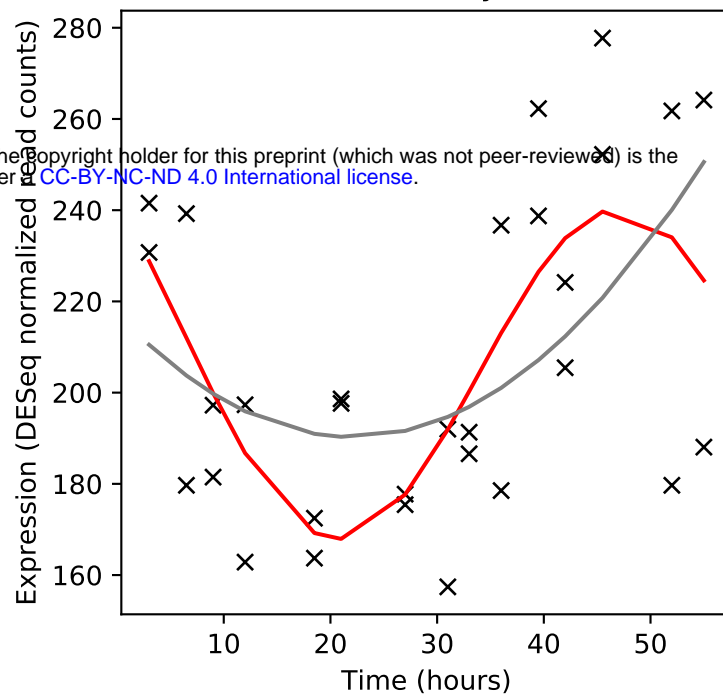
Rv2845c/proS



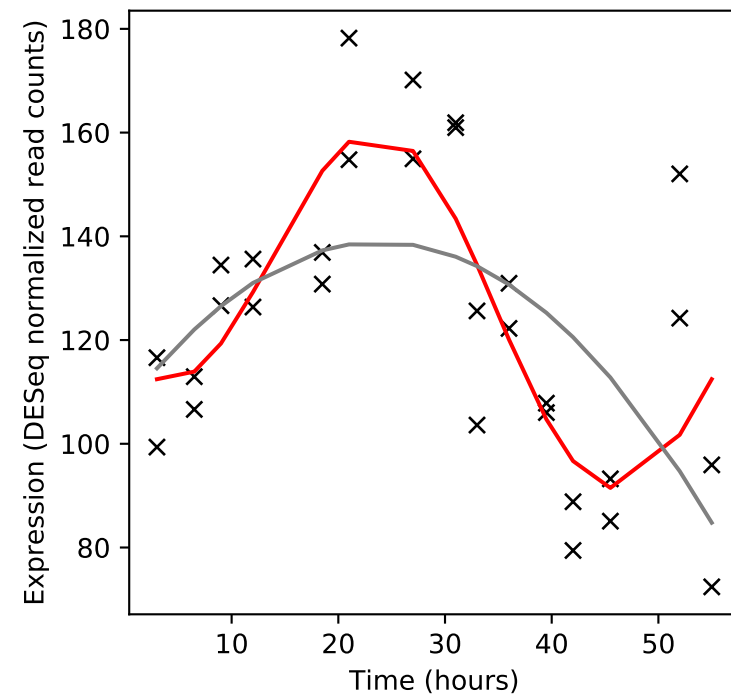
Rv2846c/efpA



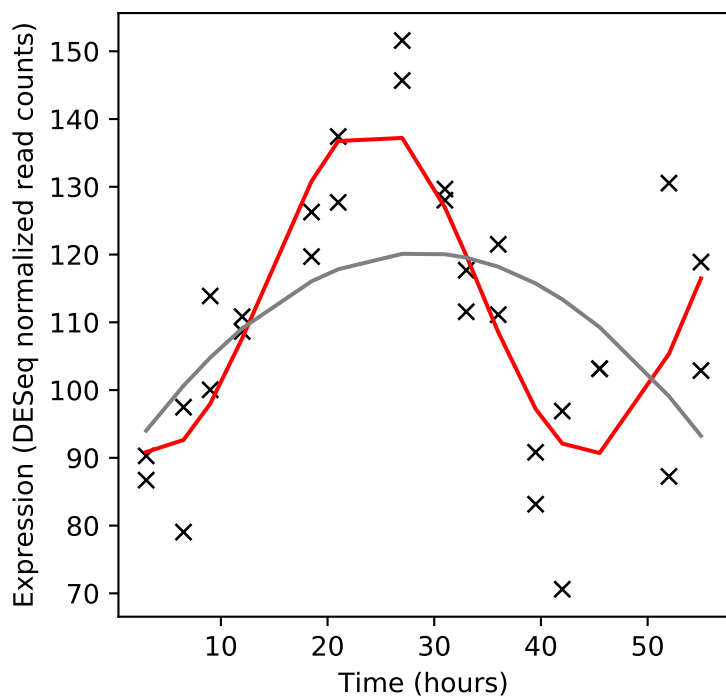
Rv2847c/cysG



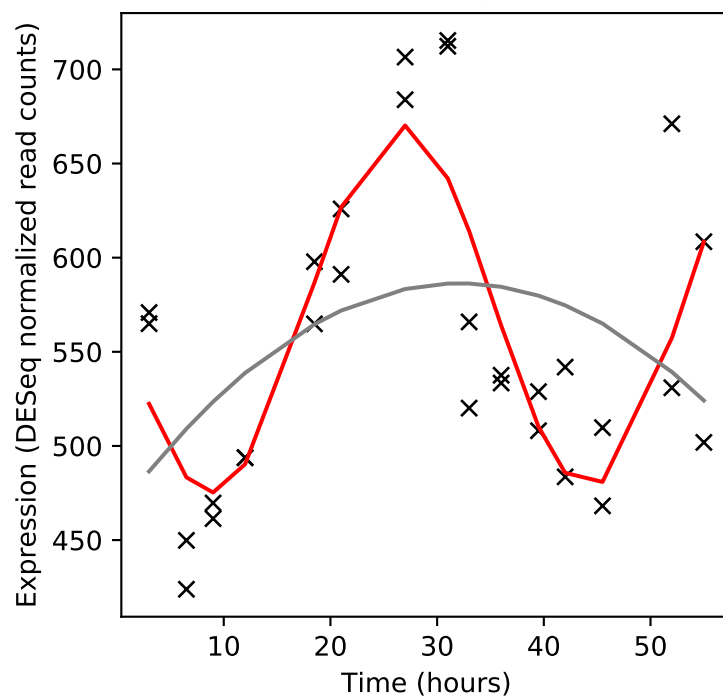
Rv2848c/cobB



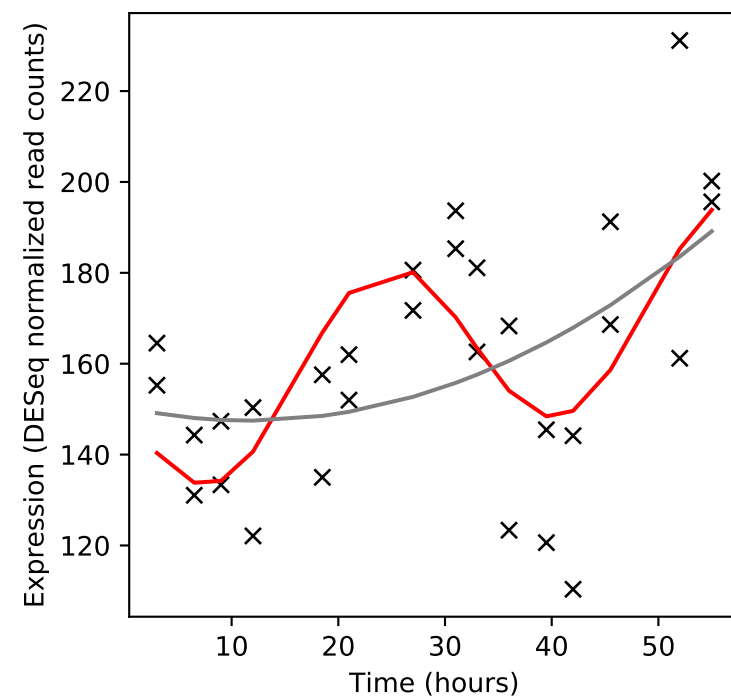
Rv2849c/cobO



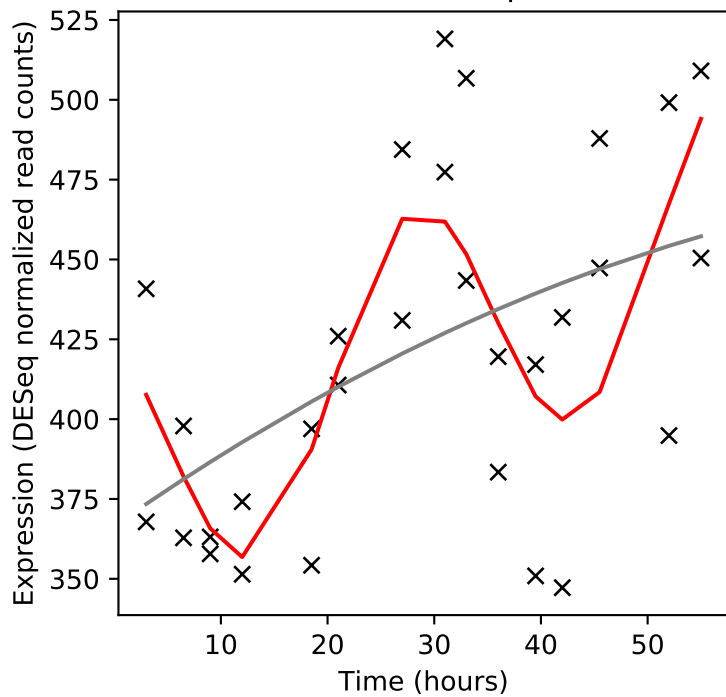
Rv2850c/-



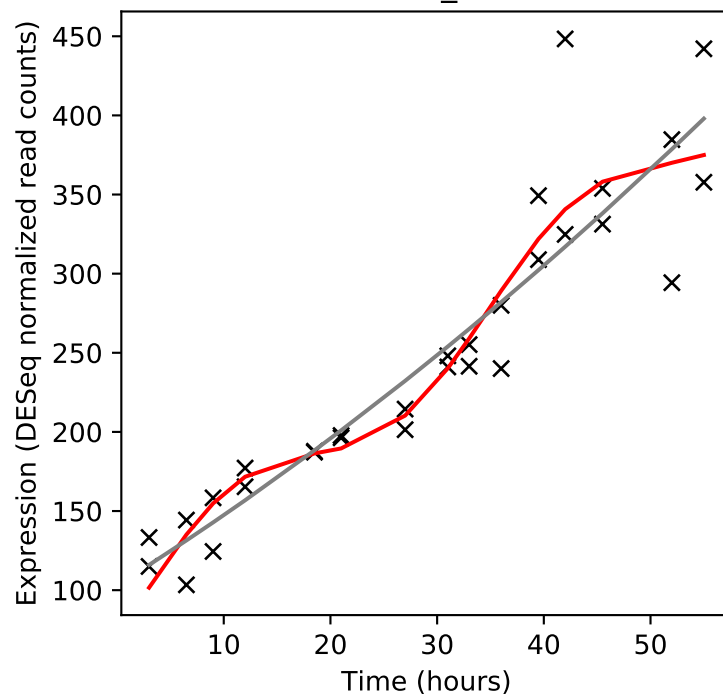
Rv2851c/-



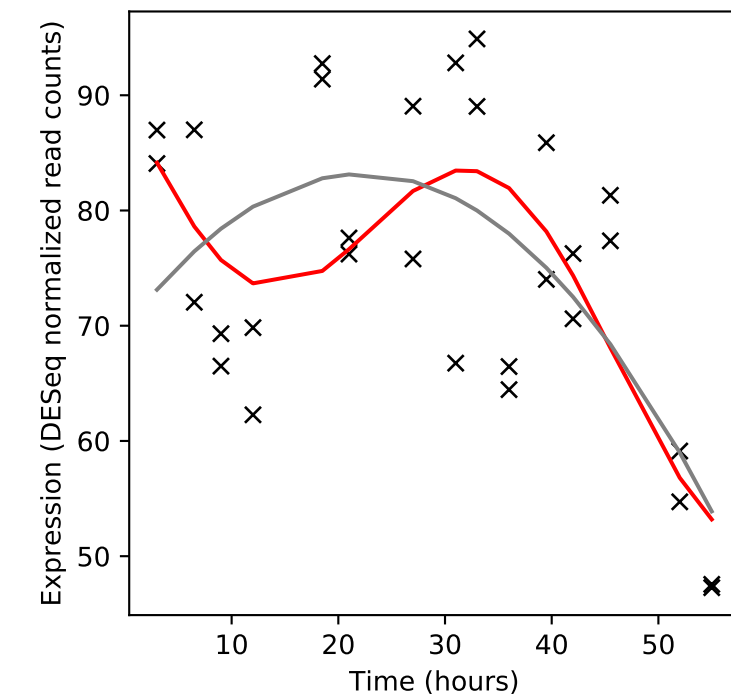
Rv2852c/mqo



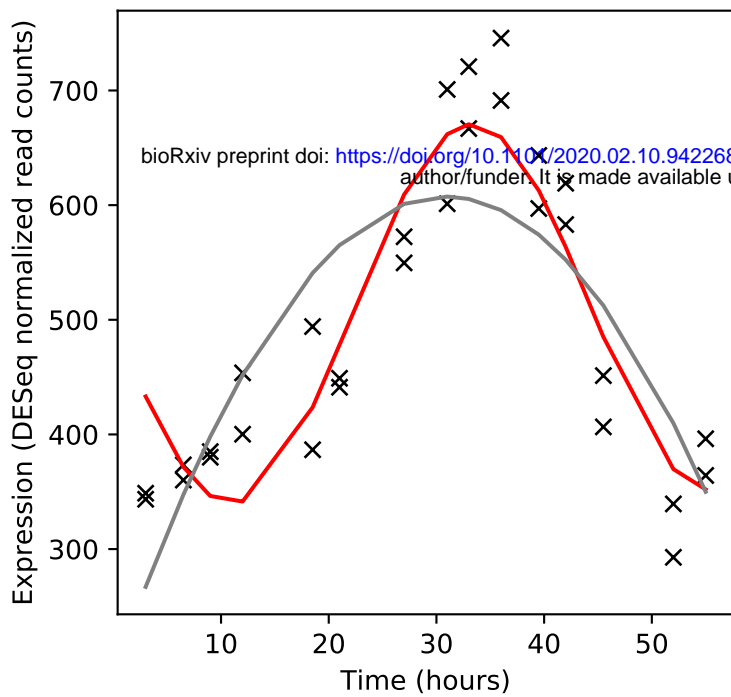
Rv2853/PE_PGRS48



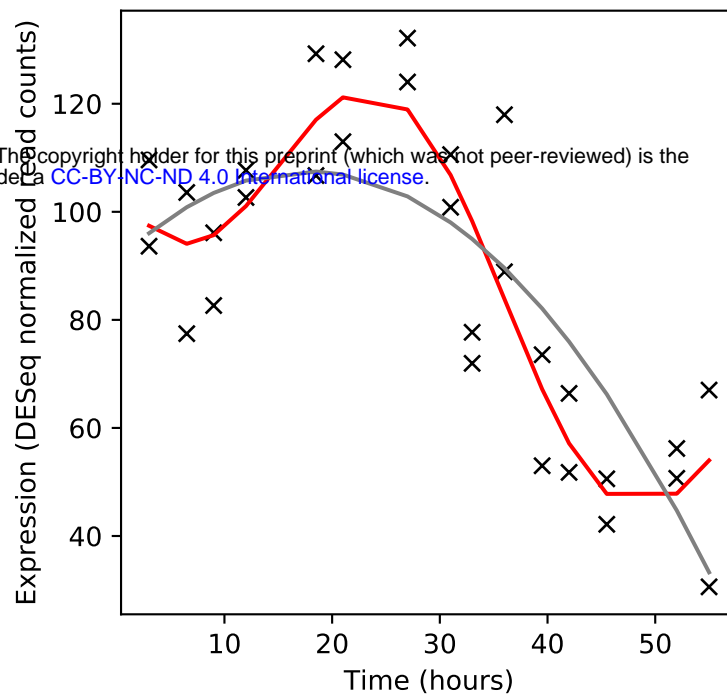
Rv2854c/-



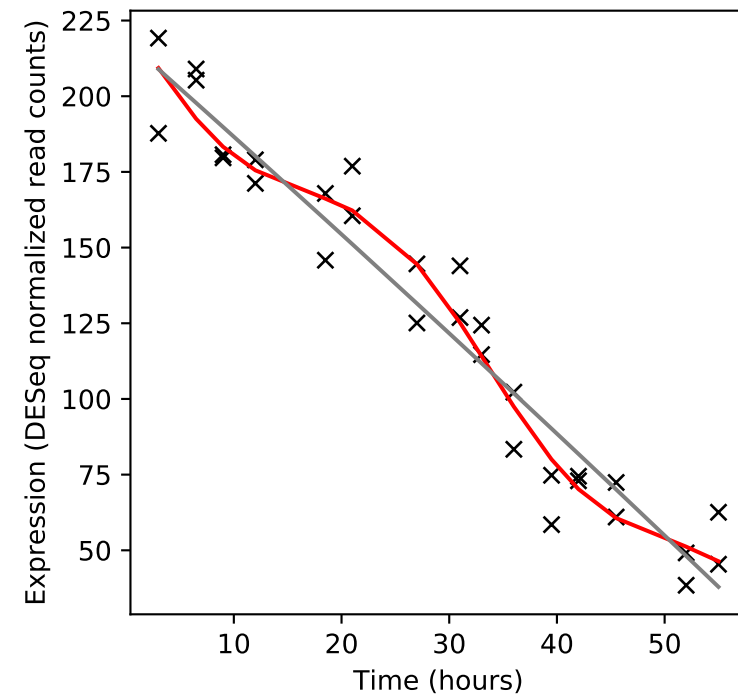
Rv2855/mtr



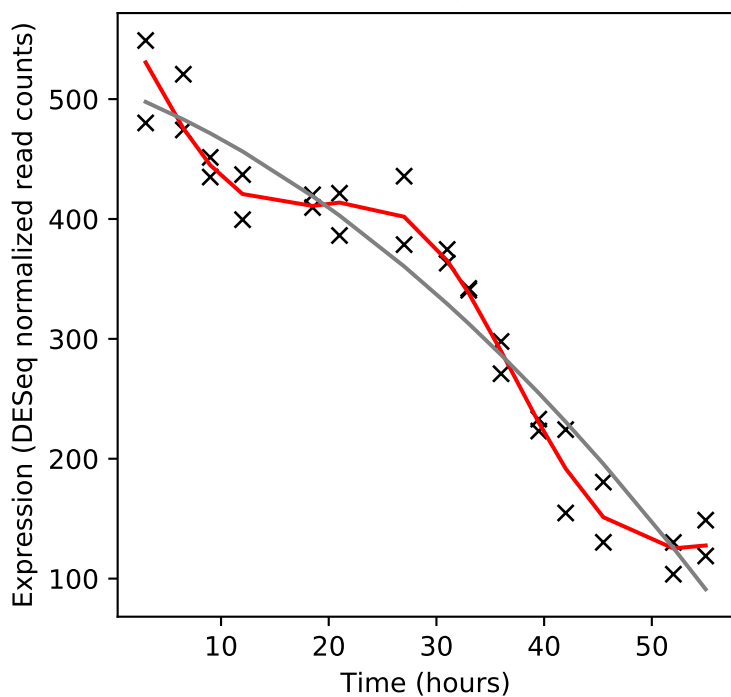
Rv2856/nicT



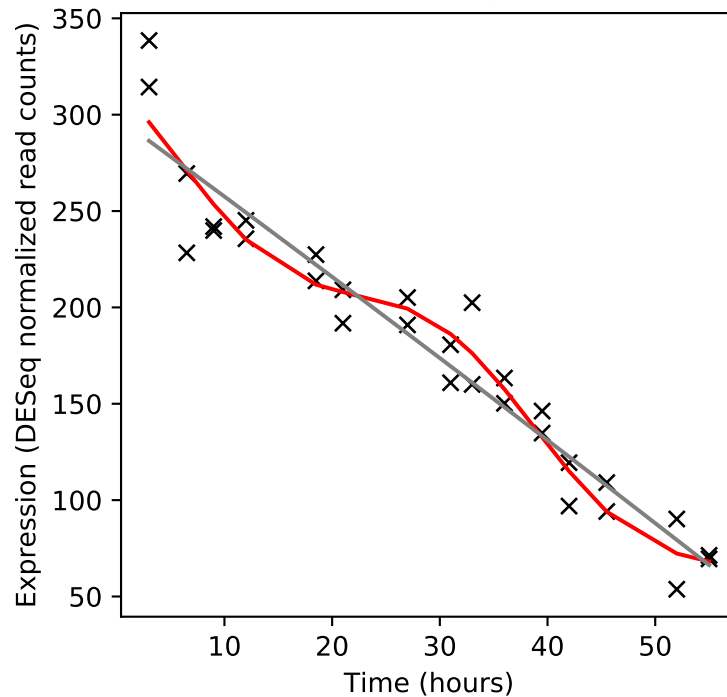
Rv2857c/-



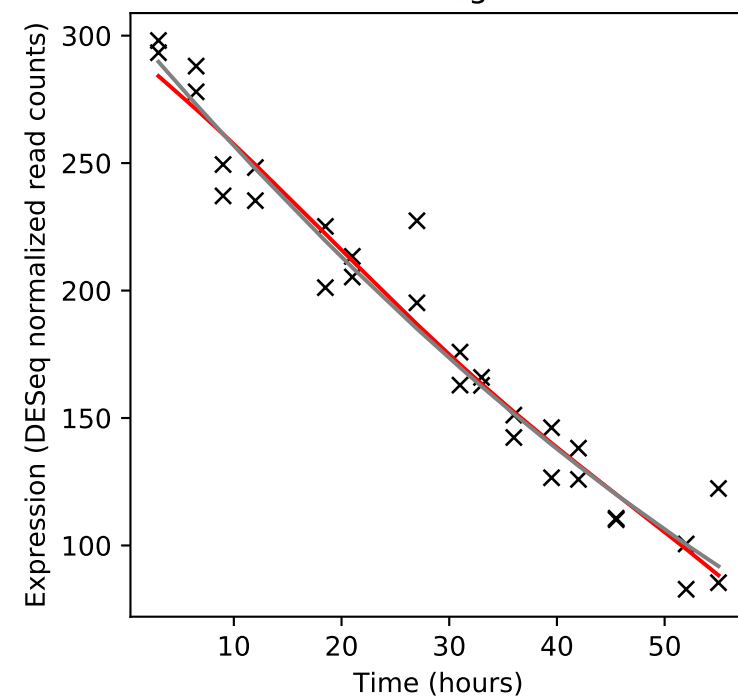
Rv2858c/aldC



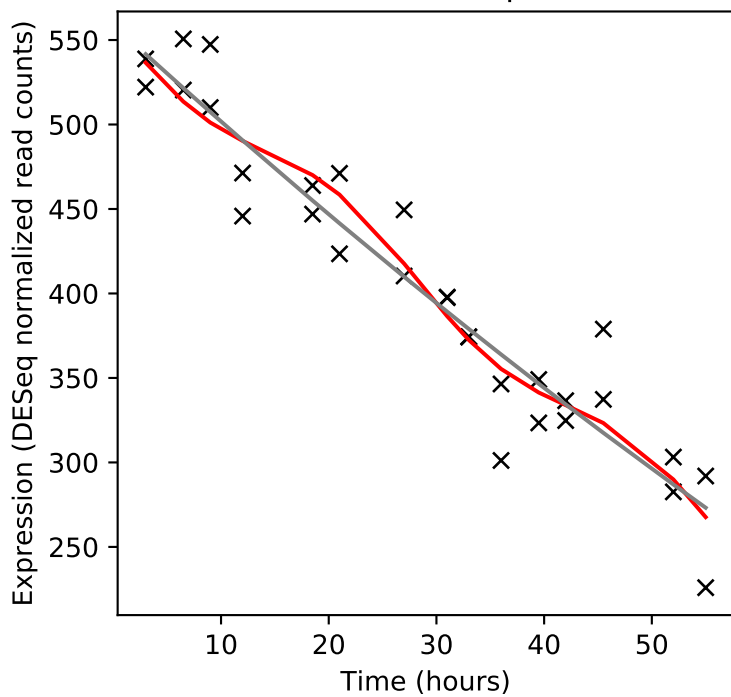
Rv2859c/-



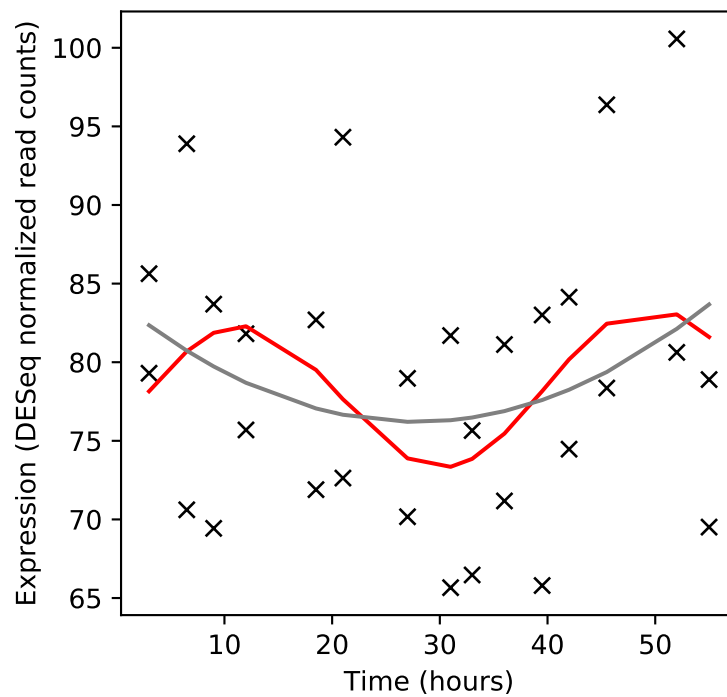
Rv2860c/glnA4



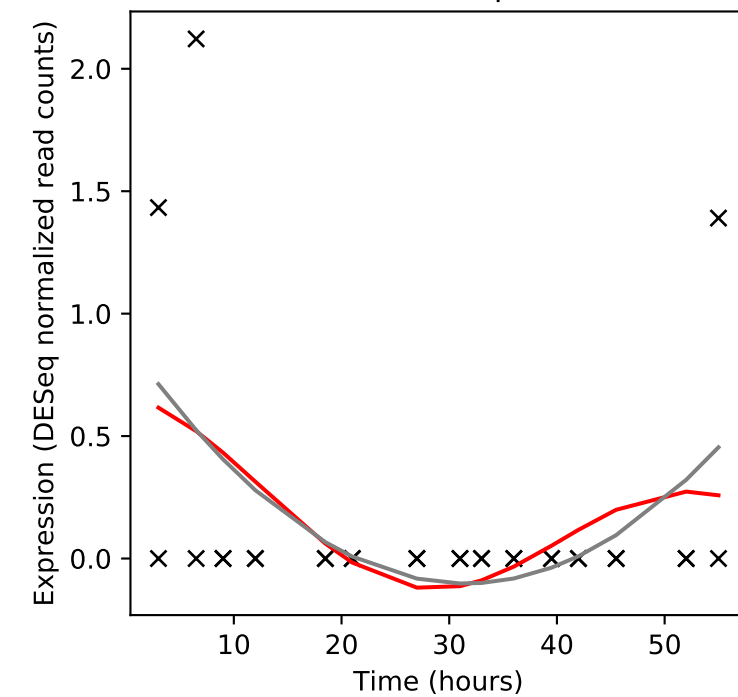
Rv2861c/mapB



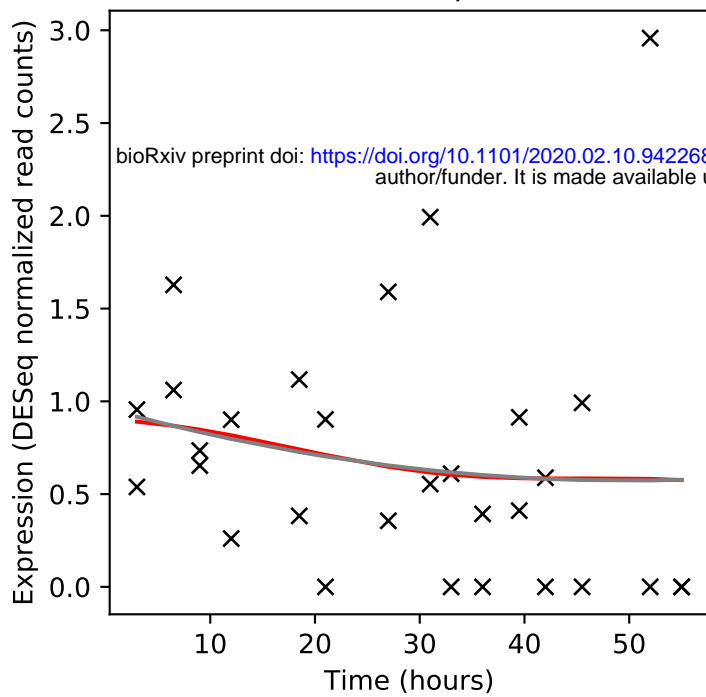
Rv2862c/-



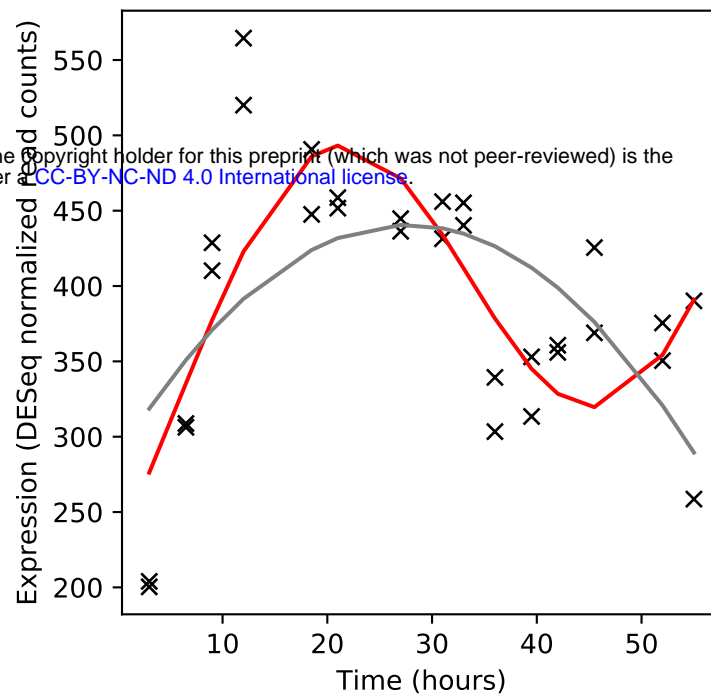
Rv2862A/vapB23



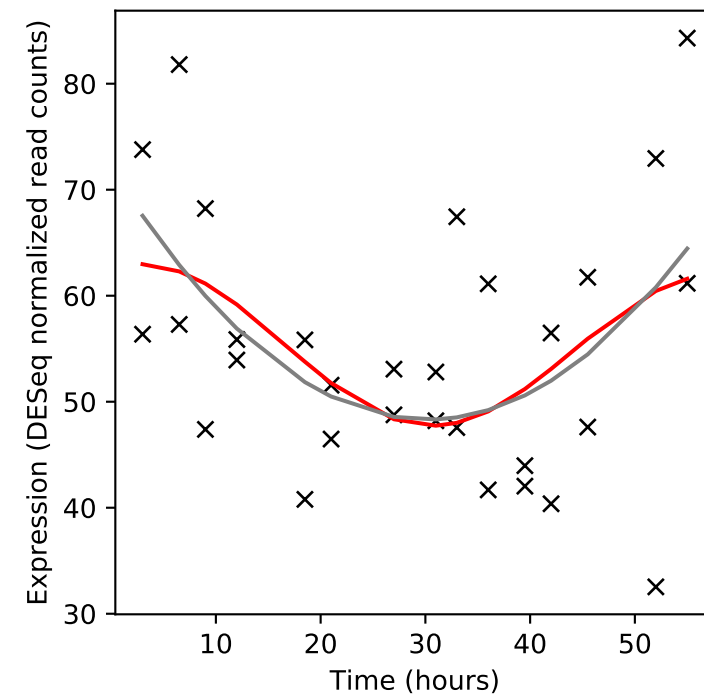
Rv2863/vapC23



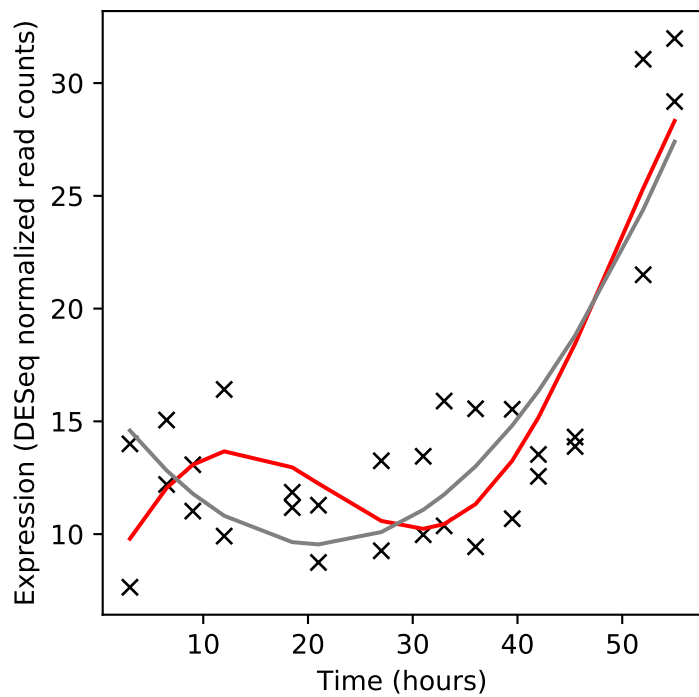
Rv2864c/-



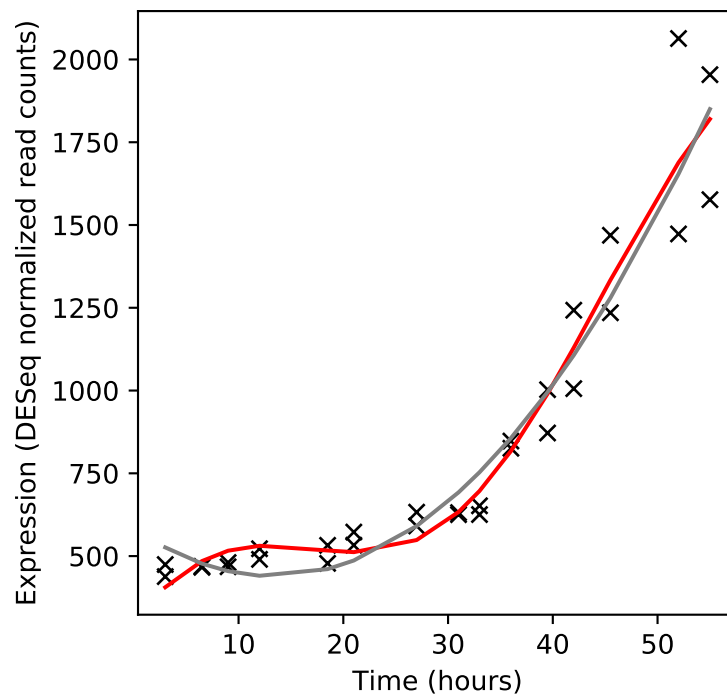
Rv2865/reIF



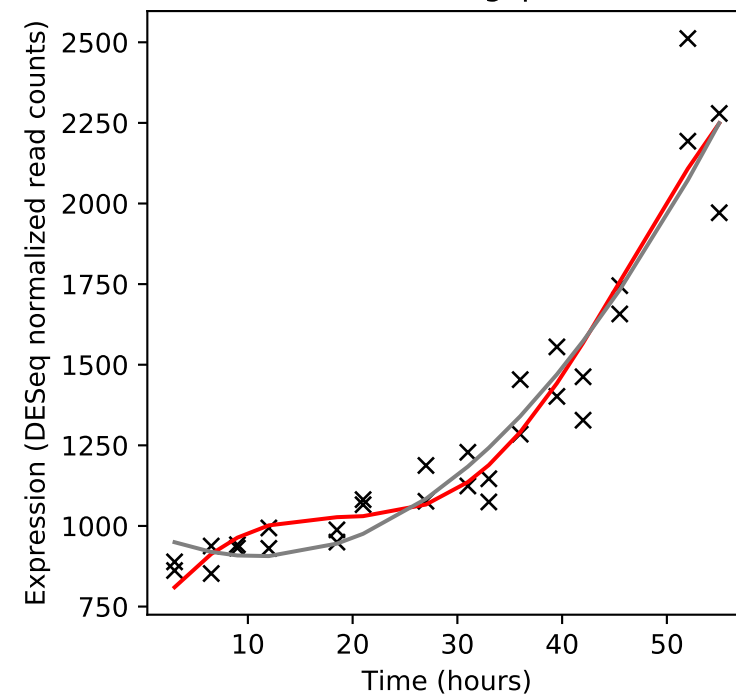
Rv2866/reIG



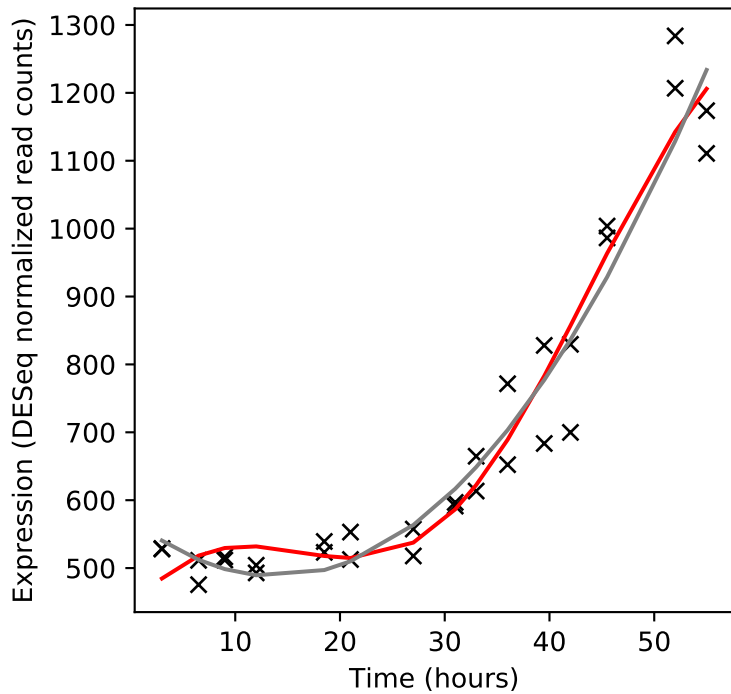
Rv2867c/-



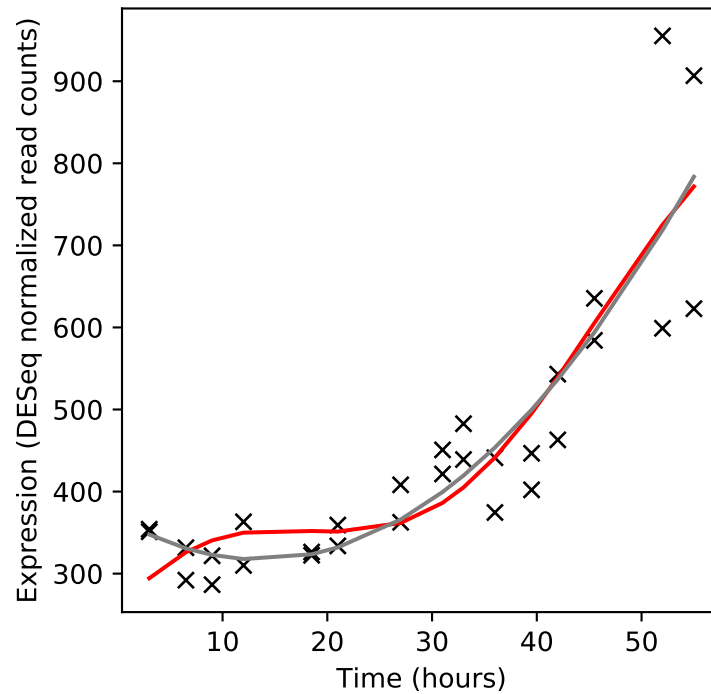
Rv2868c/gcpE



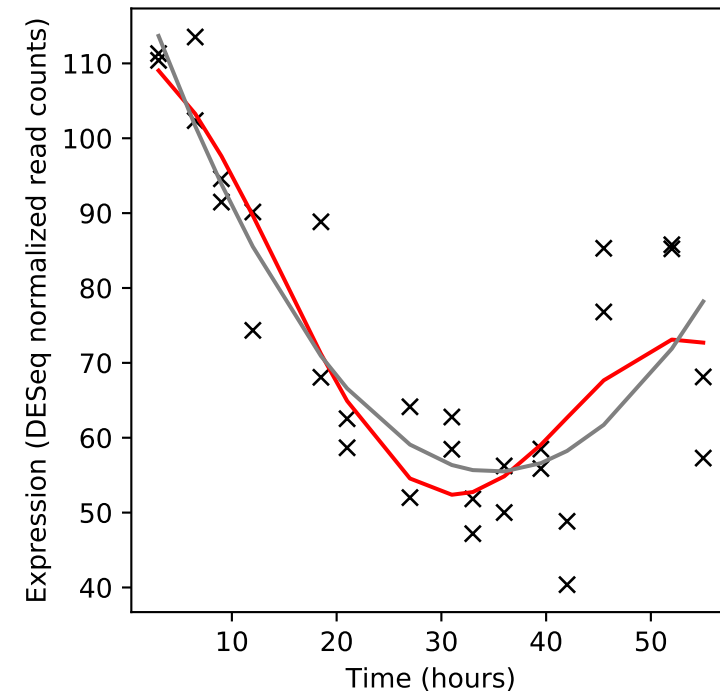
Rv2869c/rip



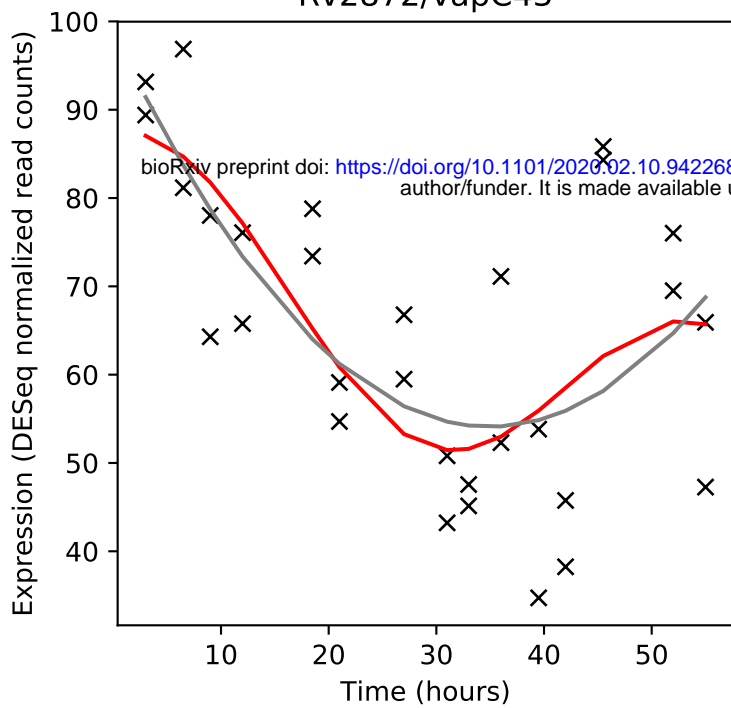
Rv2870c/dxr



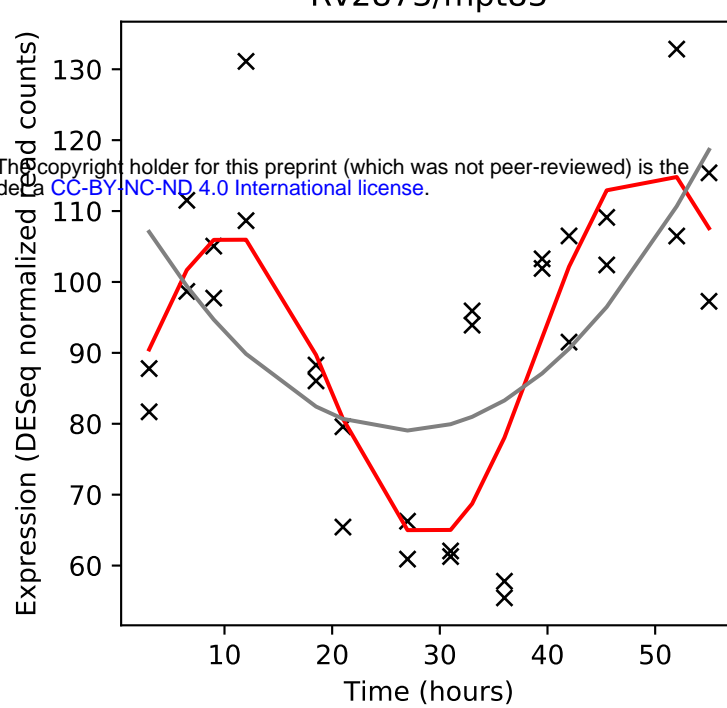
Rv2871/vapB43



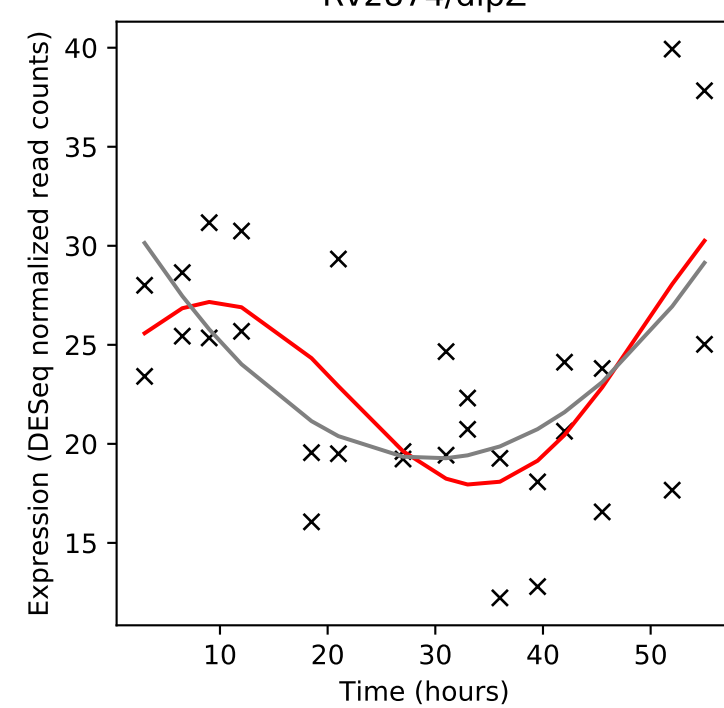
Rv2872/vapC43



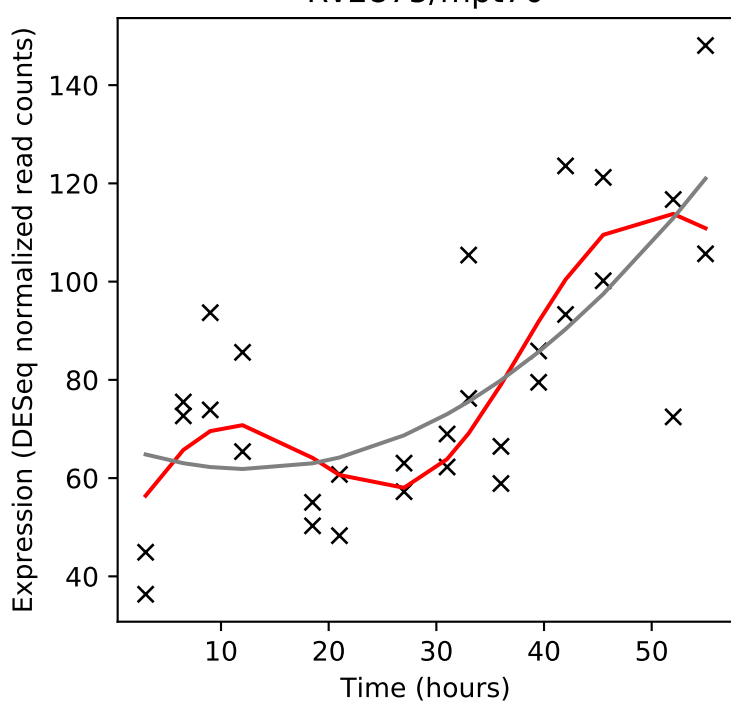
Rv2873/mpt83



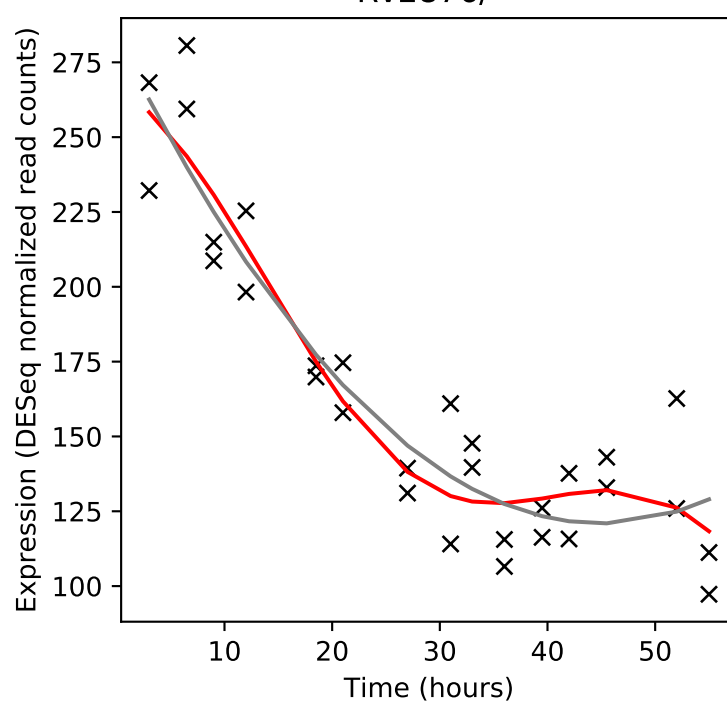
Rv2874/dipZ



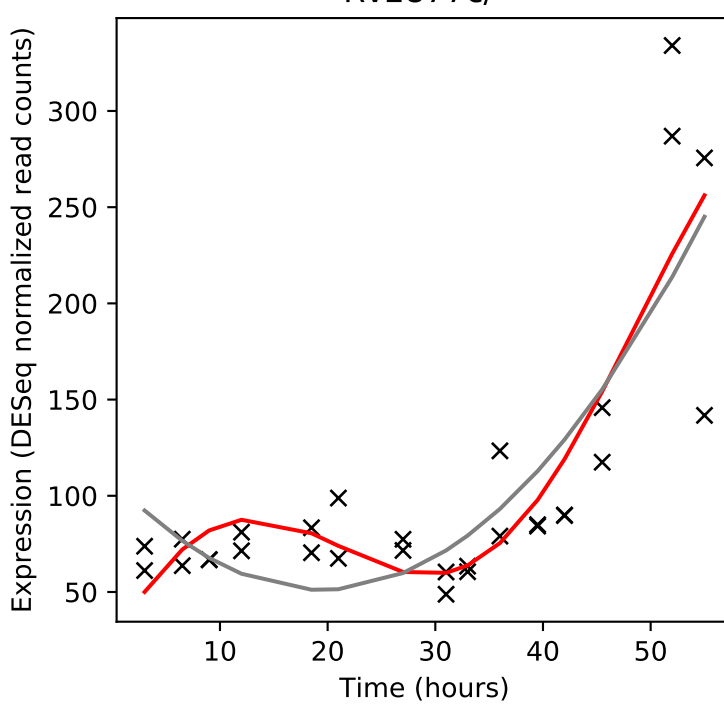
Rv2875/mpt70



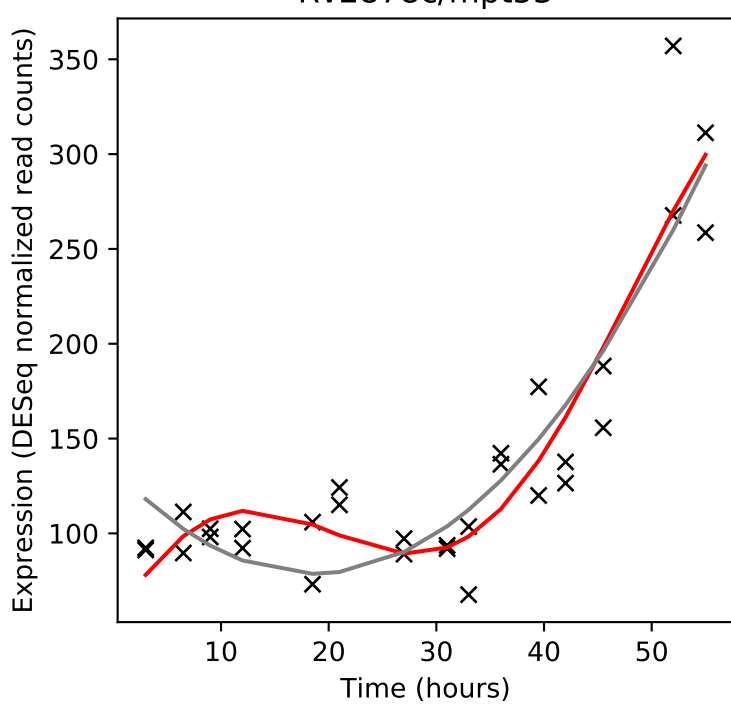
Rv2876/-



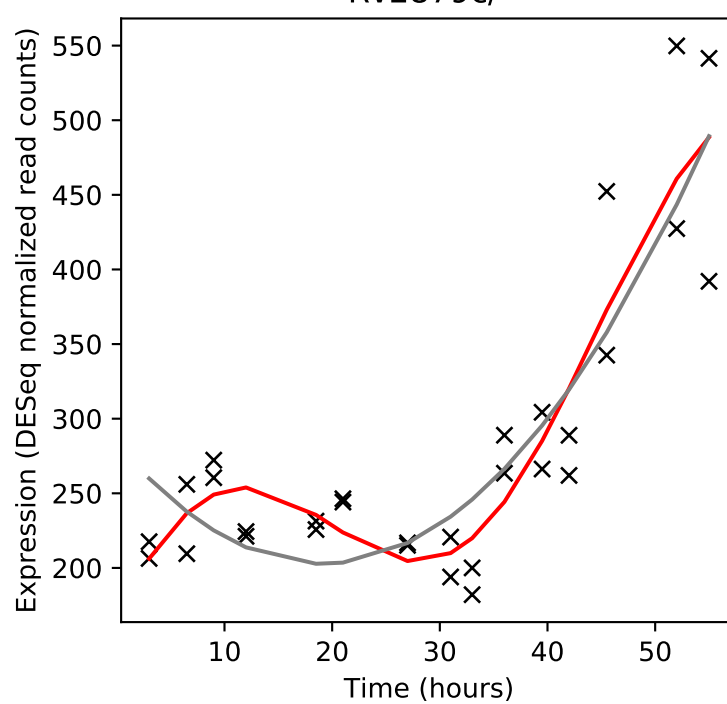
Rv2877c/-



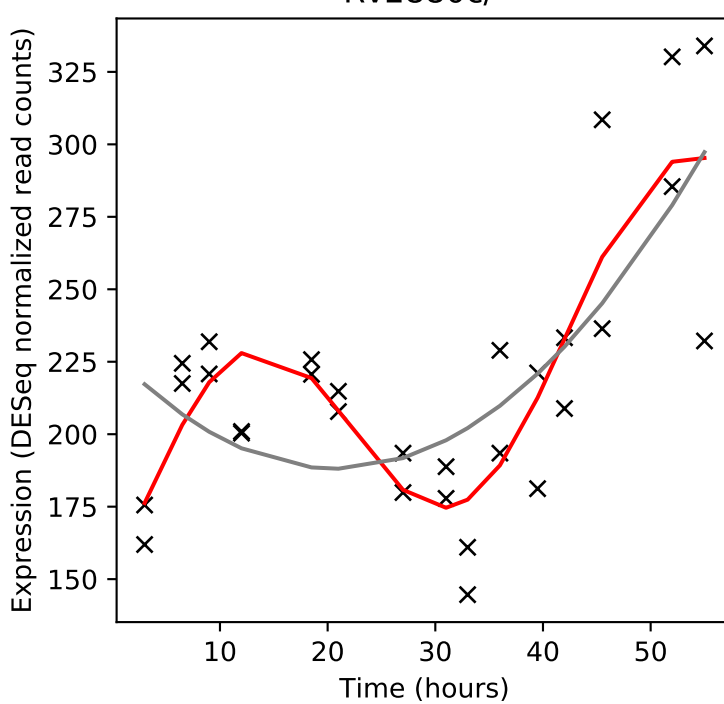
Rv2878c/mpt53



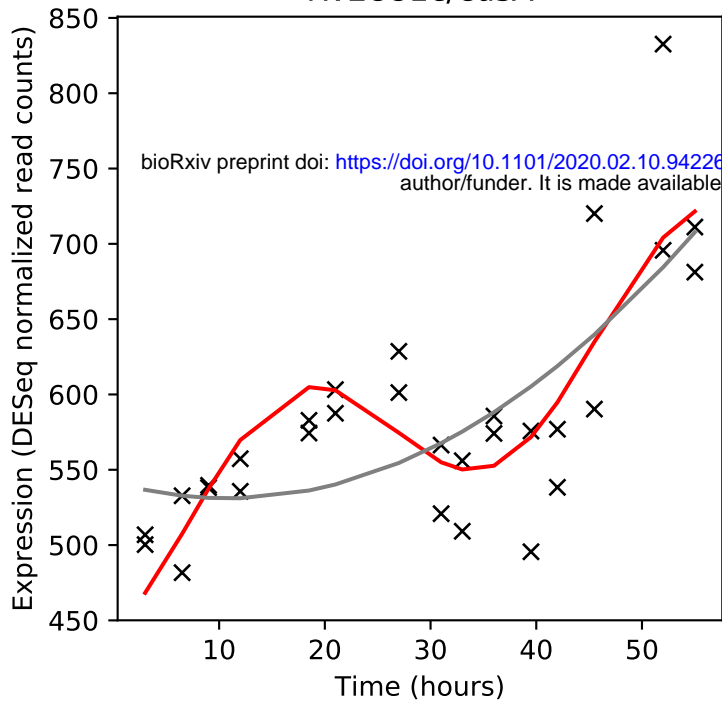
Rv2879c/-



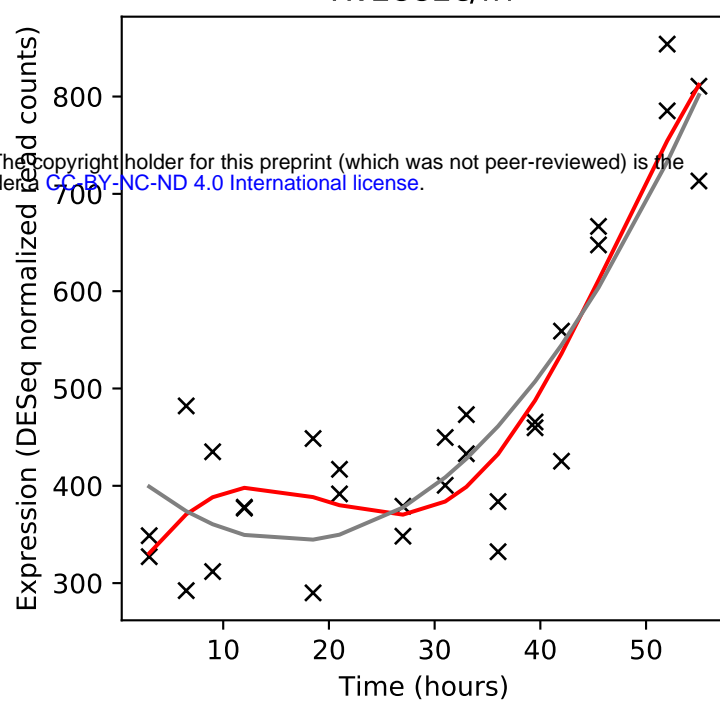
Rv2880c/-



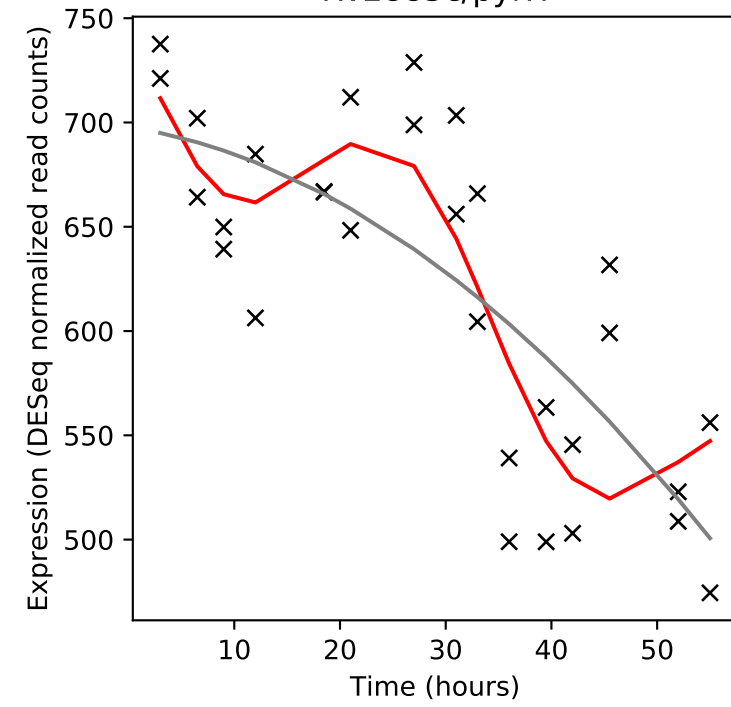
Rv2881c/cdsA



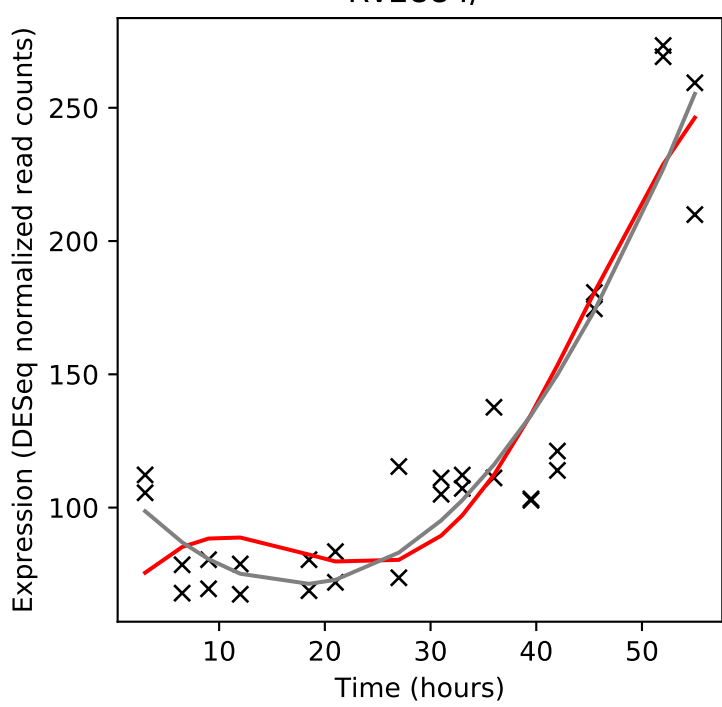
Rv2882c/frr



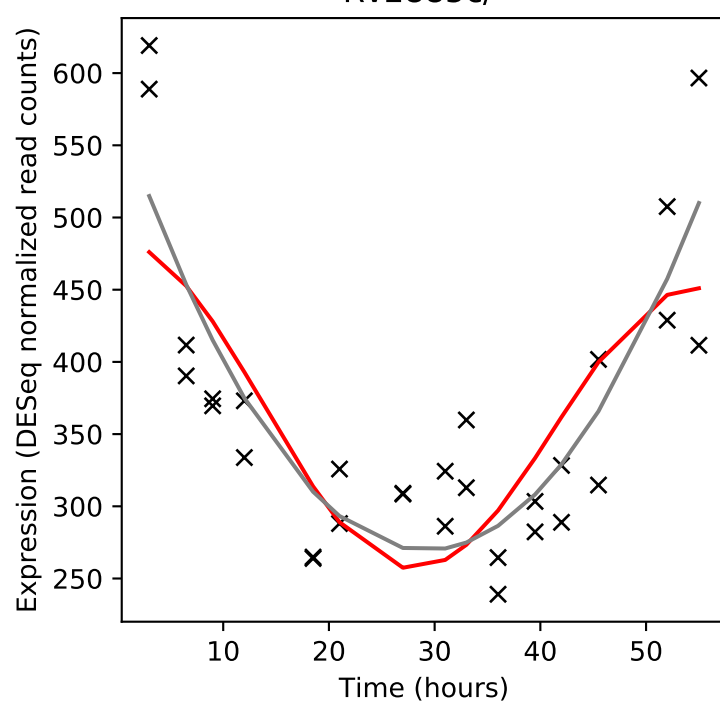
Rv2883c/pyrH



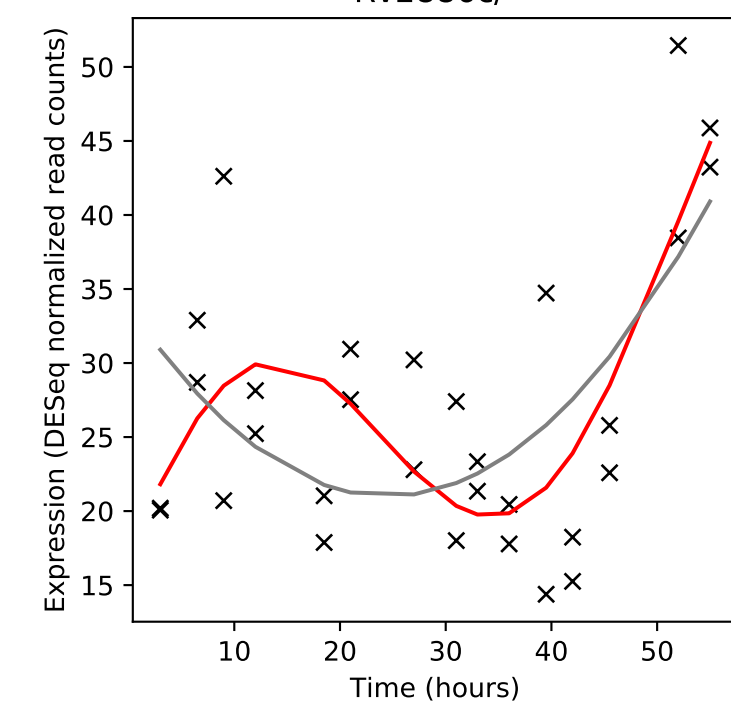
Rv2884c/-



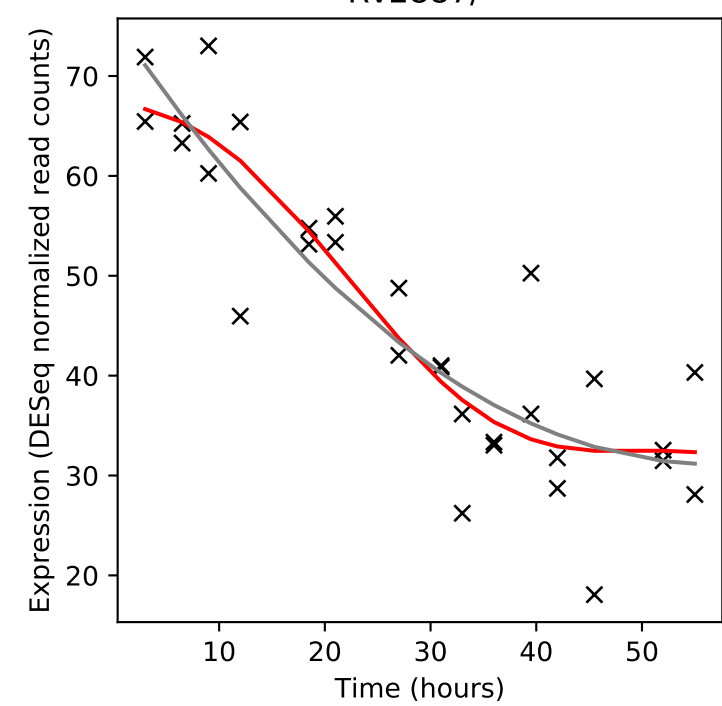
Rv2885c/-



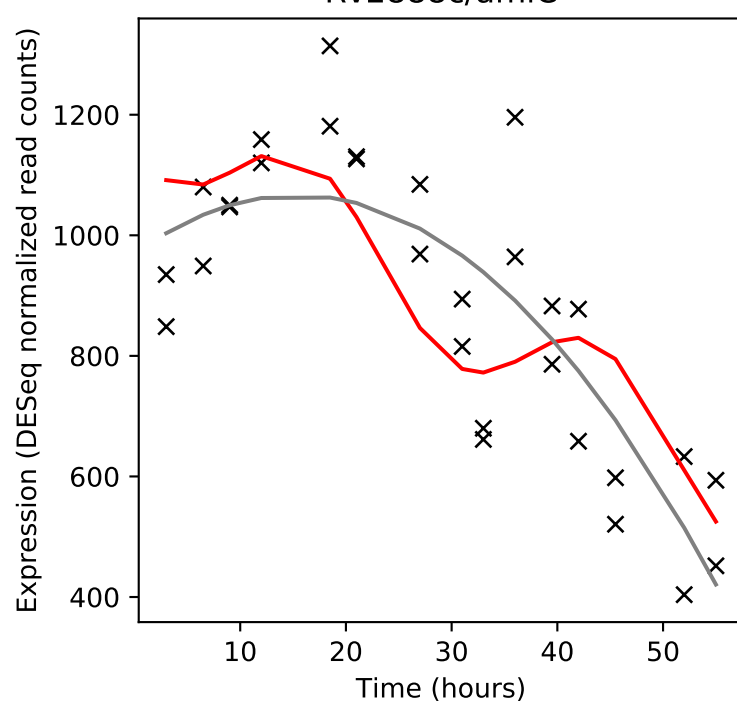
Rv2886c/-



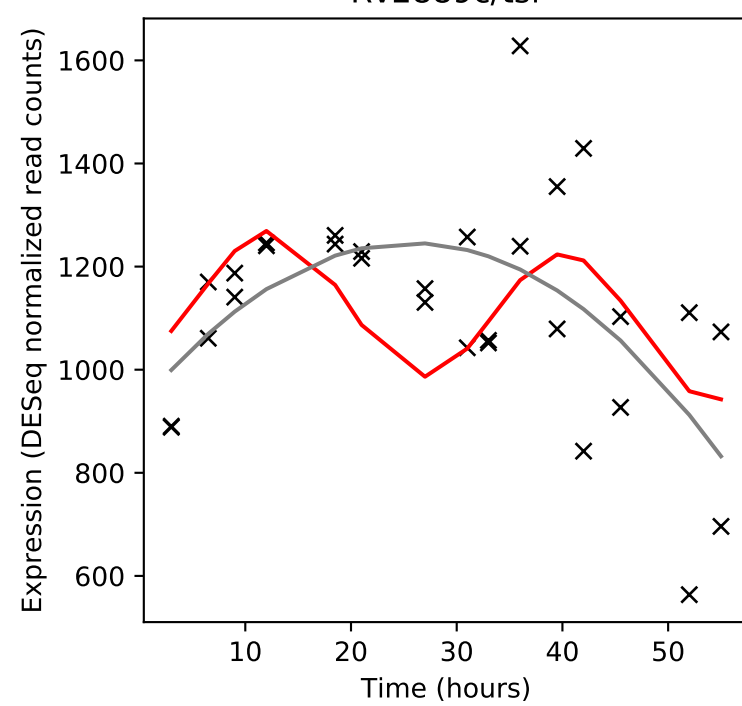
Rv2887c/-



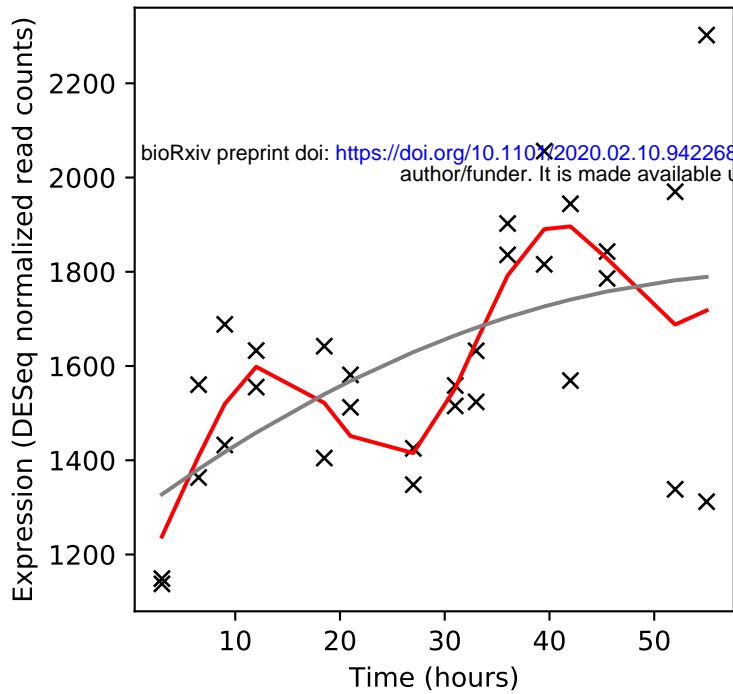
Rv2888c/amiC



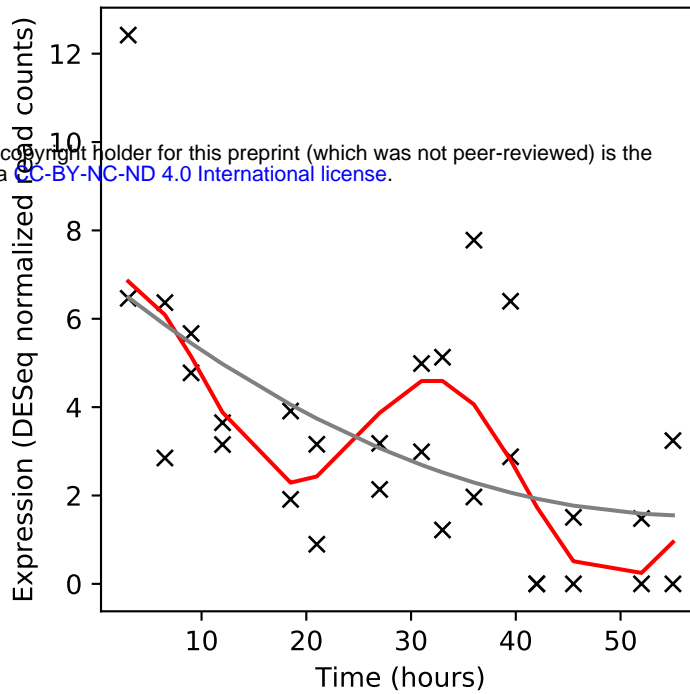
Rv2889c/tsf



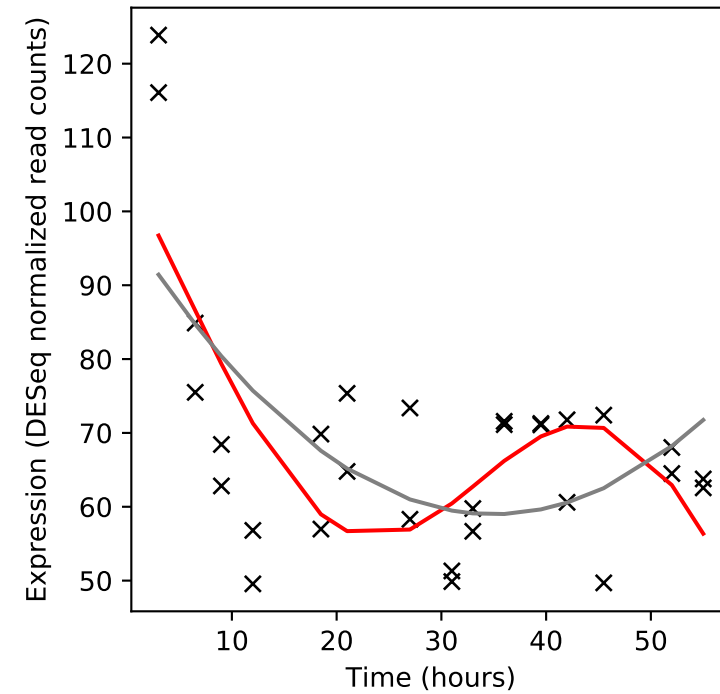
Rv2890c/rpsB



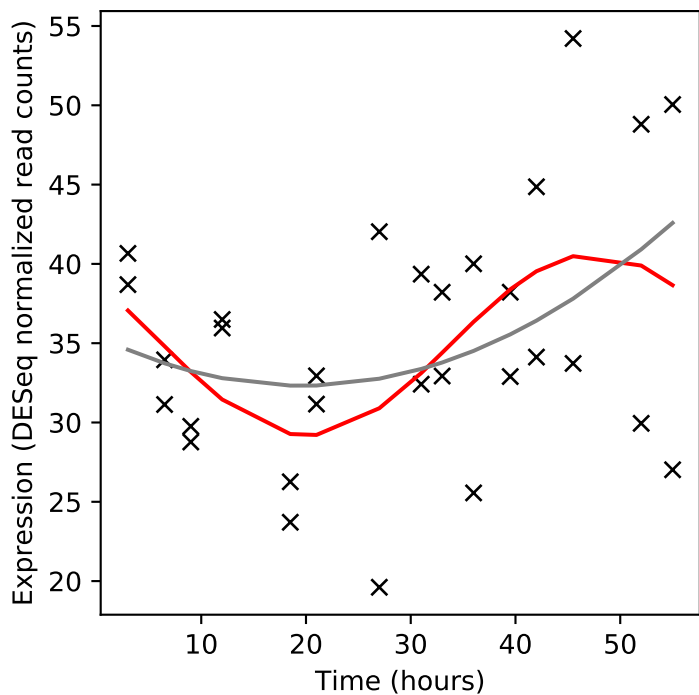
Rv2891/-



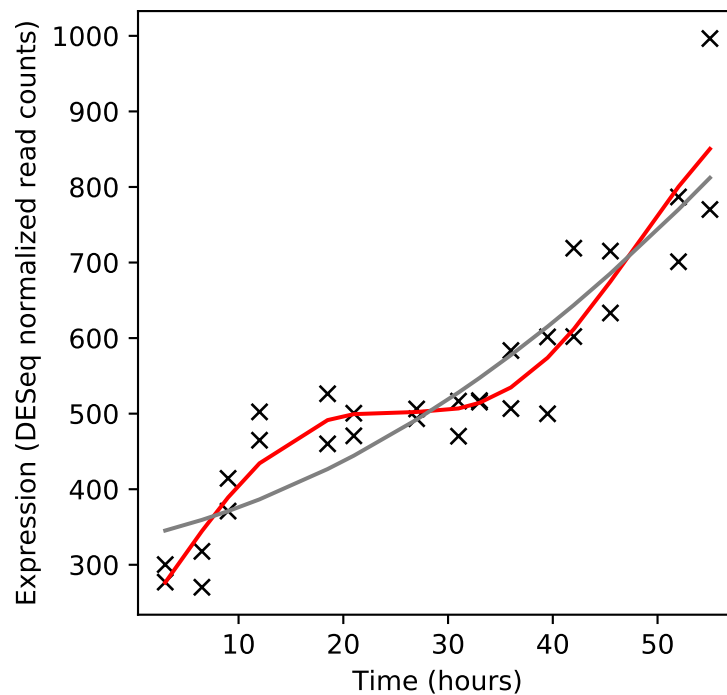
Rv2892c/PPE45



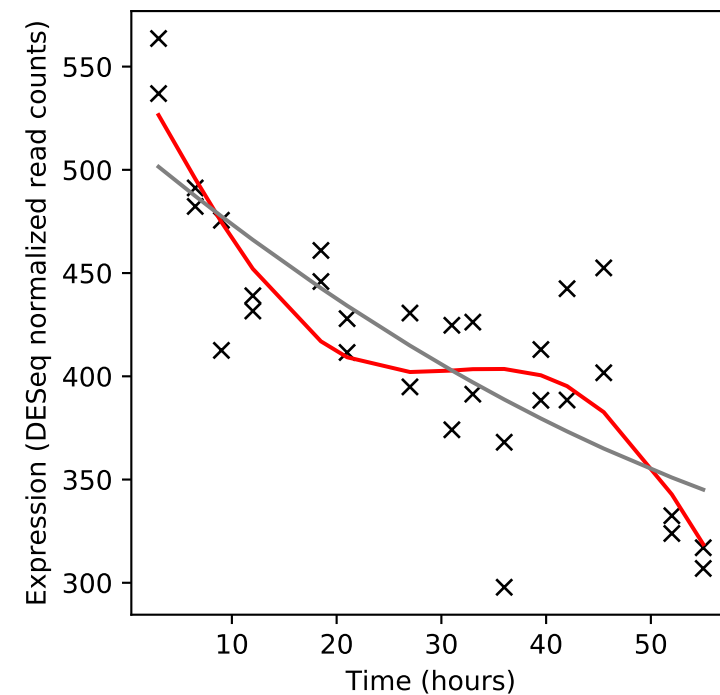
Rv2893/-



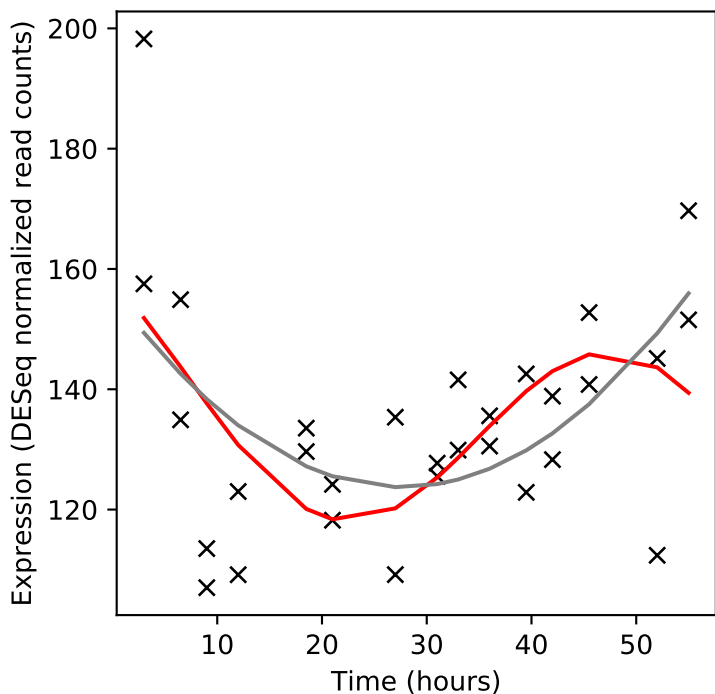
Rv2894c/xerC



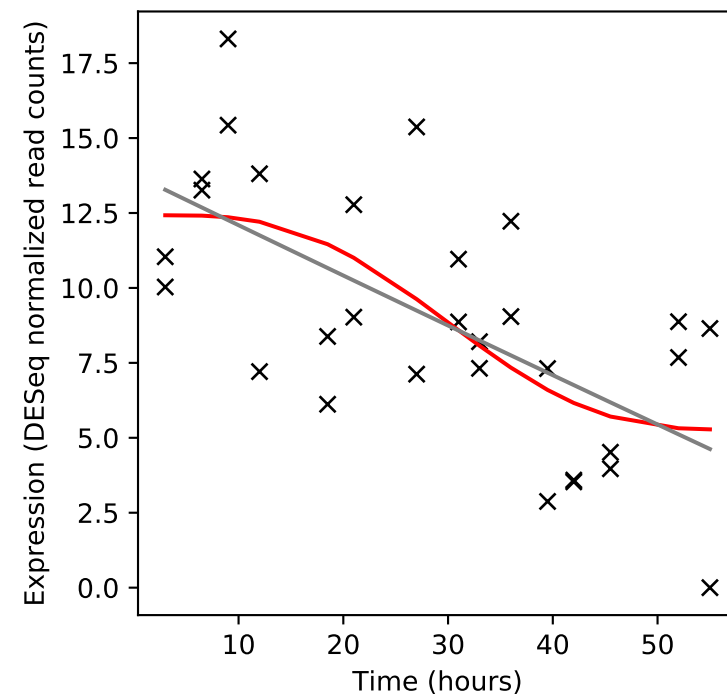
Rv2895c/viuB



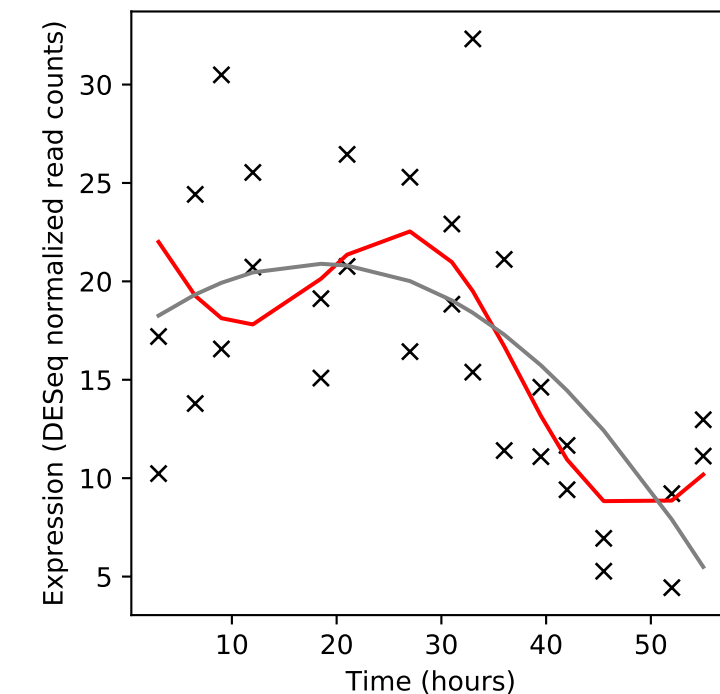
Rv2896c/-



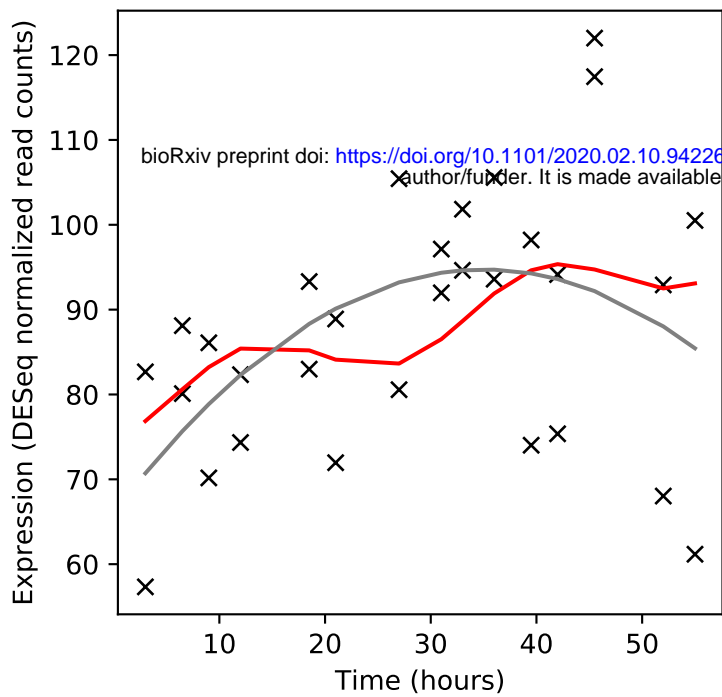
Rv2897c/-



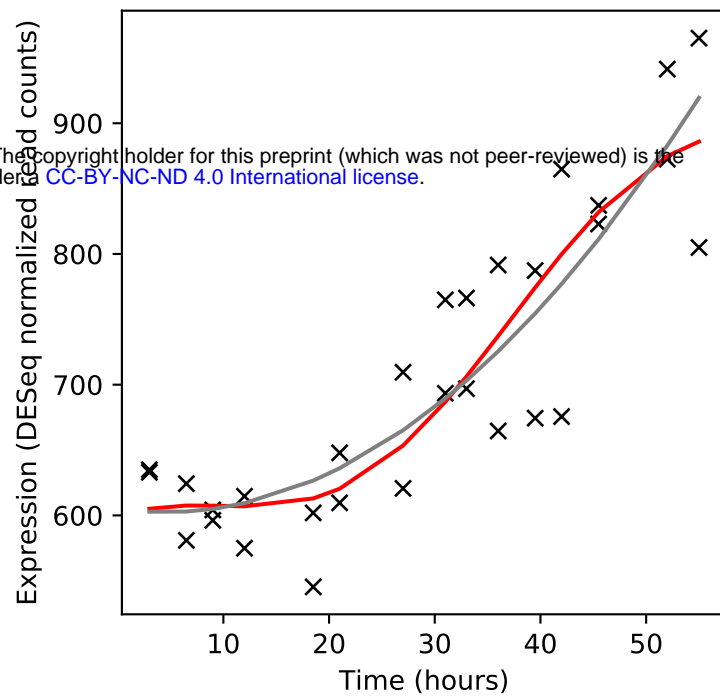
Rv2898c/-



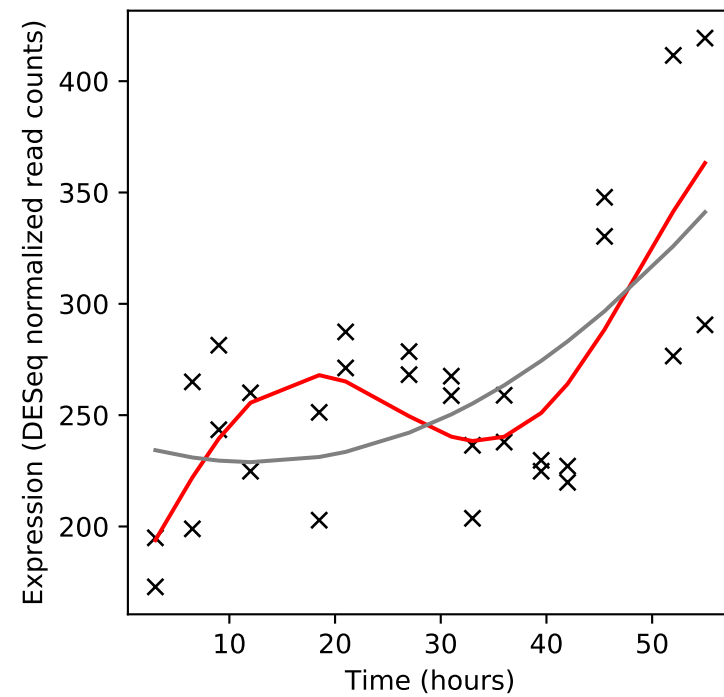
Rv2899c/fdhD



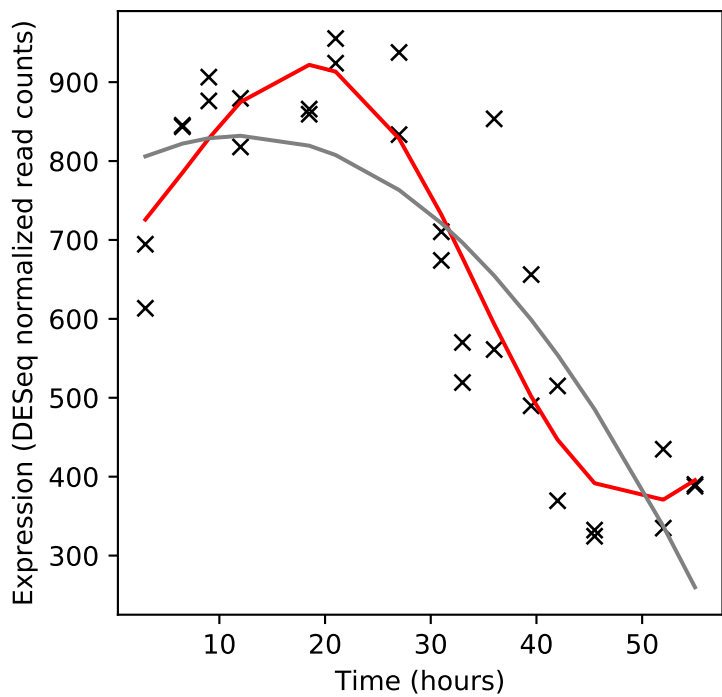
Rv2900c/fdhF



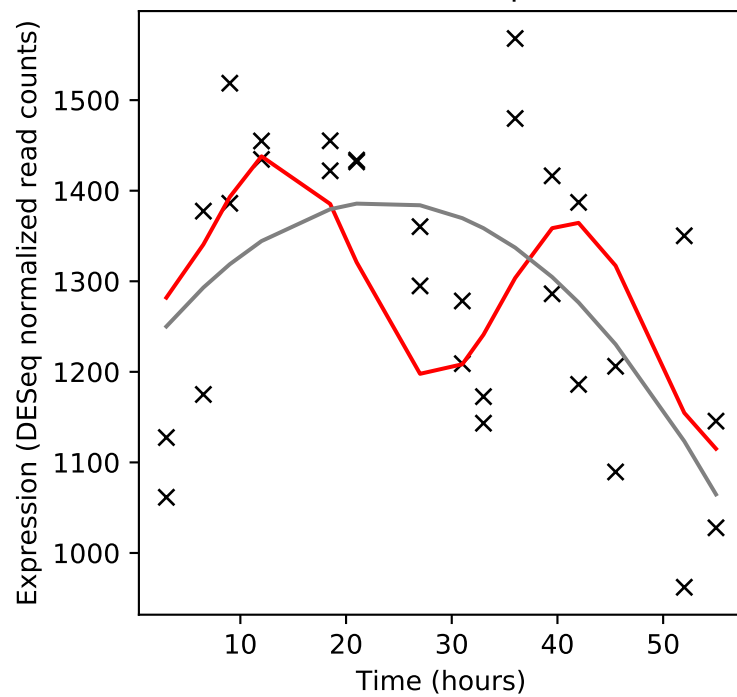
Rv2901c/-



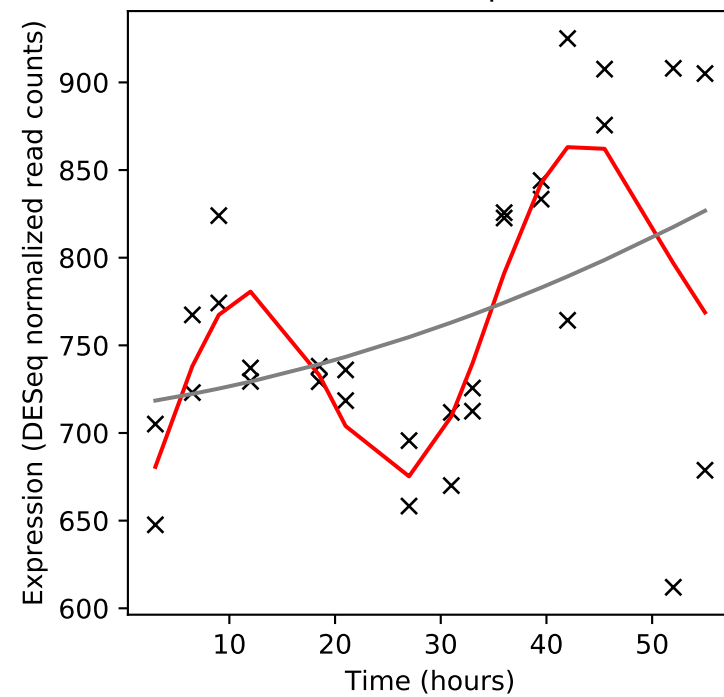
Rv2902c/rnhB



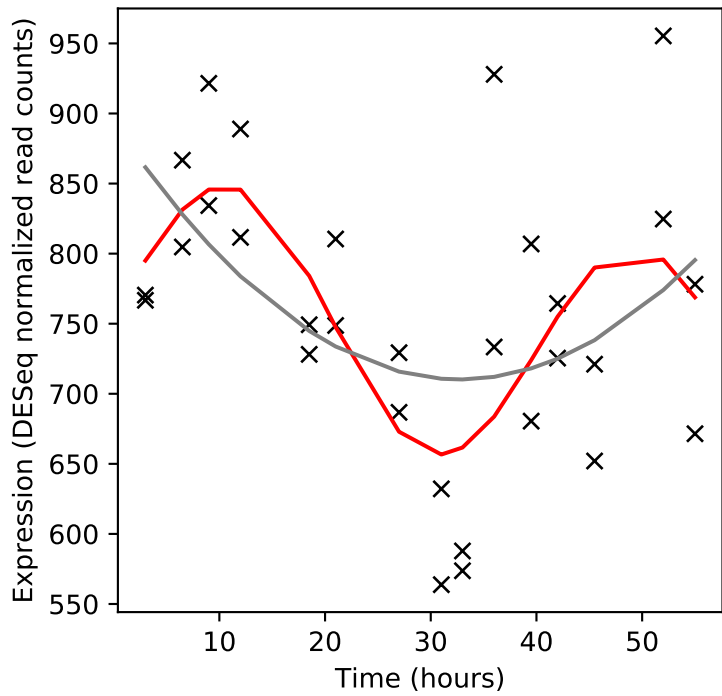
Rv2903c/lepB



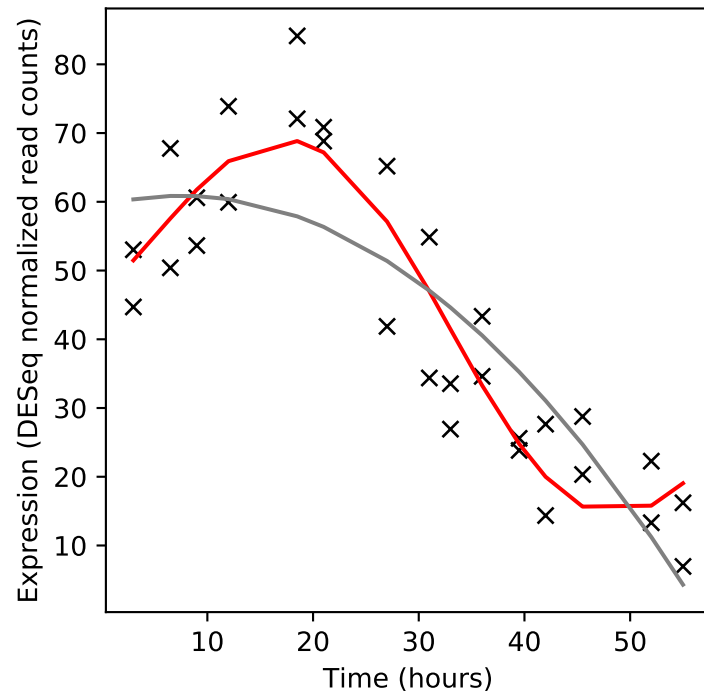
Rv2904c/rplS



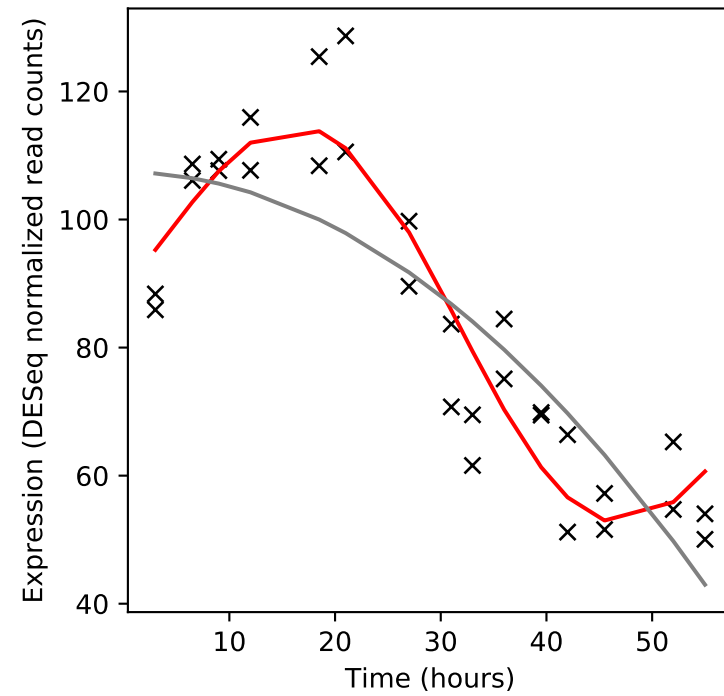
Rv2905/lppW



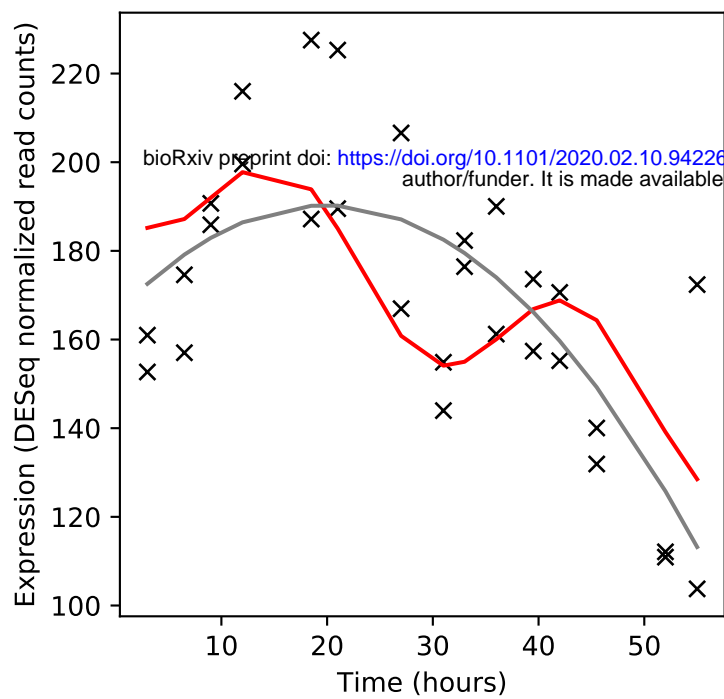
Rv2906c/trmD



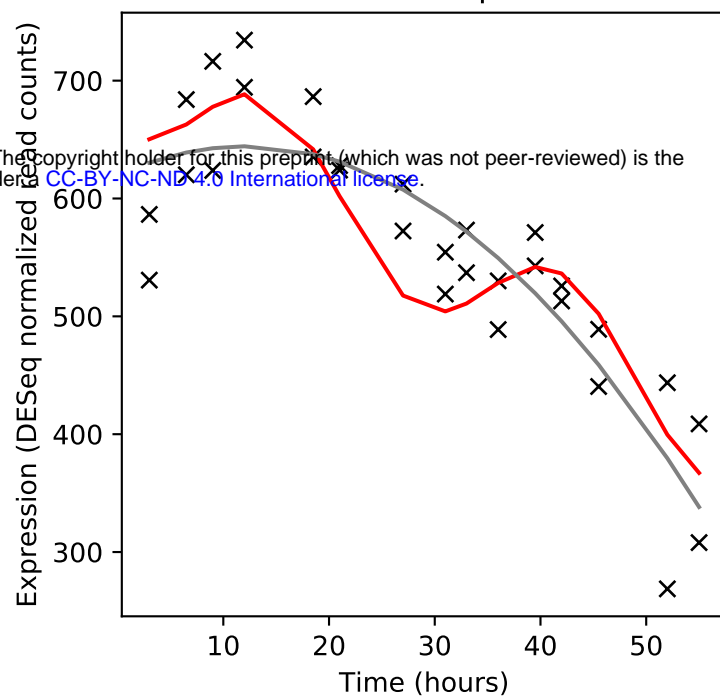
Rv2907c/rimM



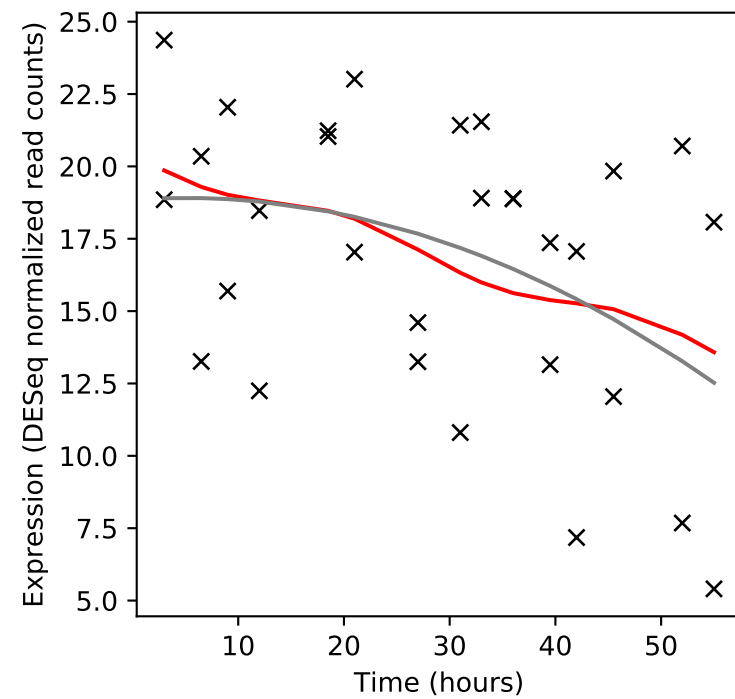
Rv2908c/-



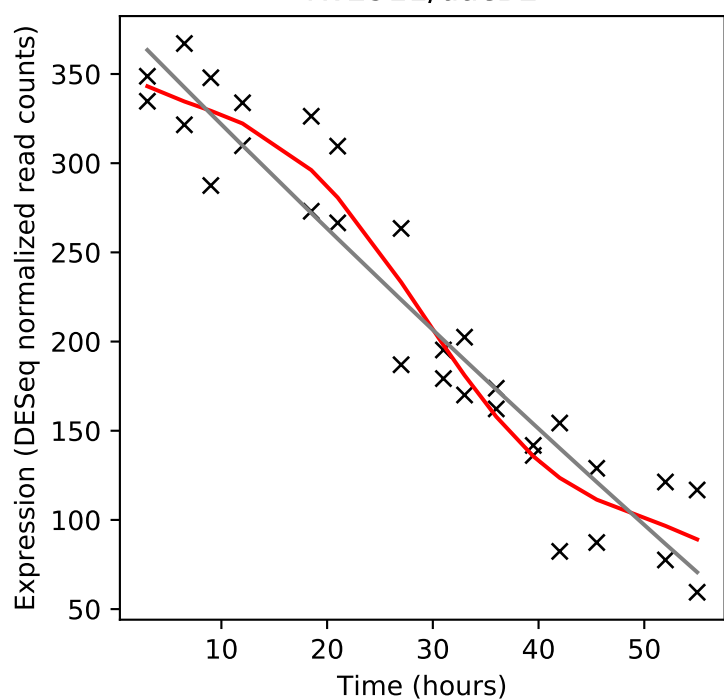
Rv2909c/rpsP



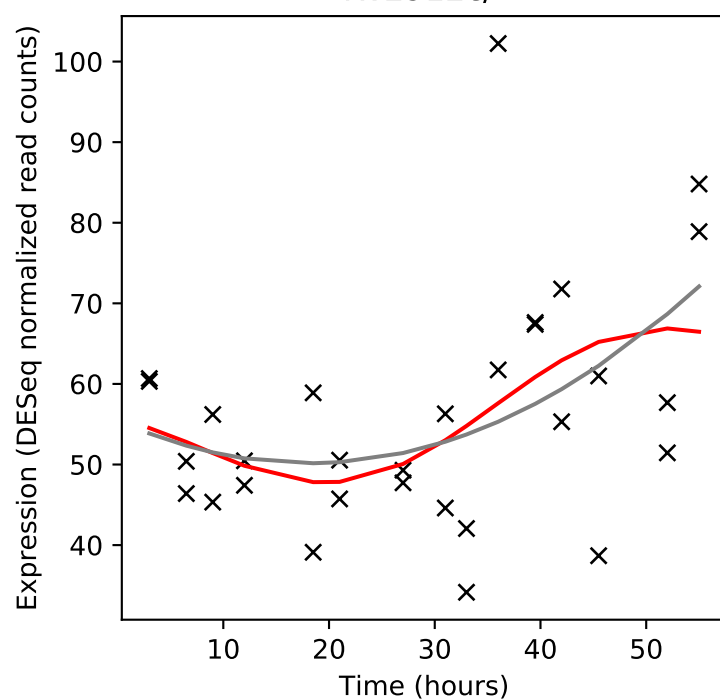
Rv2910c/-



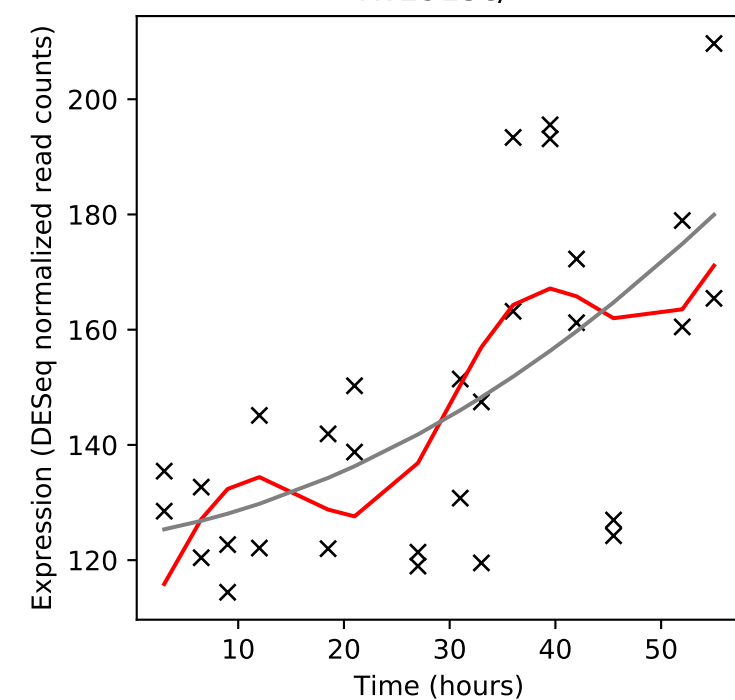
Rv2911/dacB2



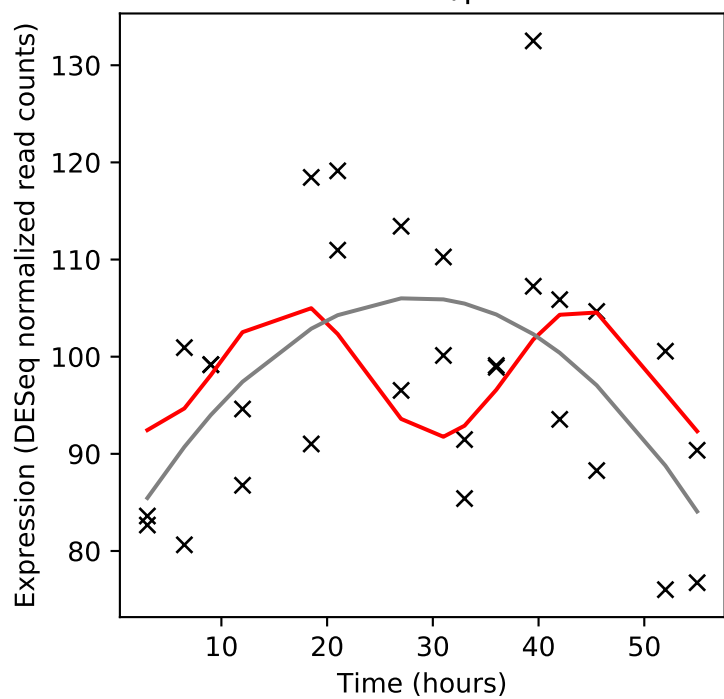
Rv2912c/-



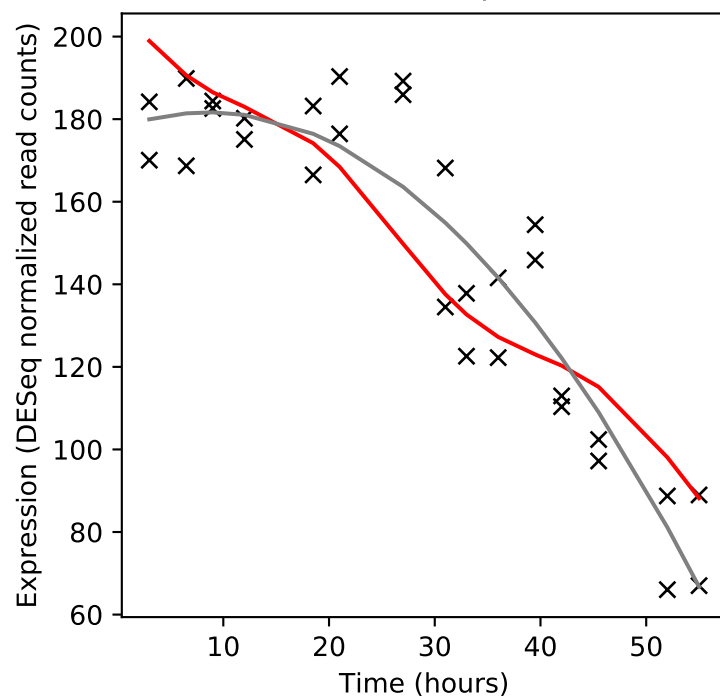
Rv2913c/-



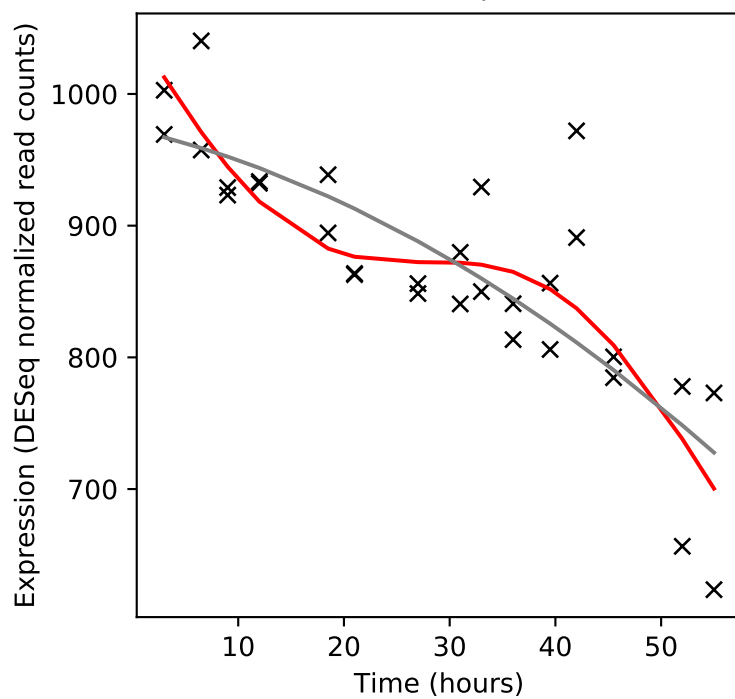
Rv2914c/pknl



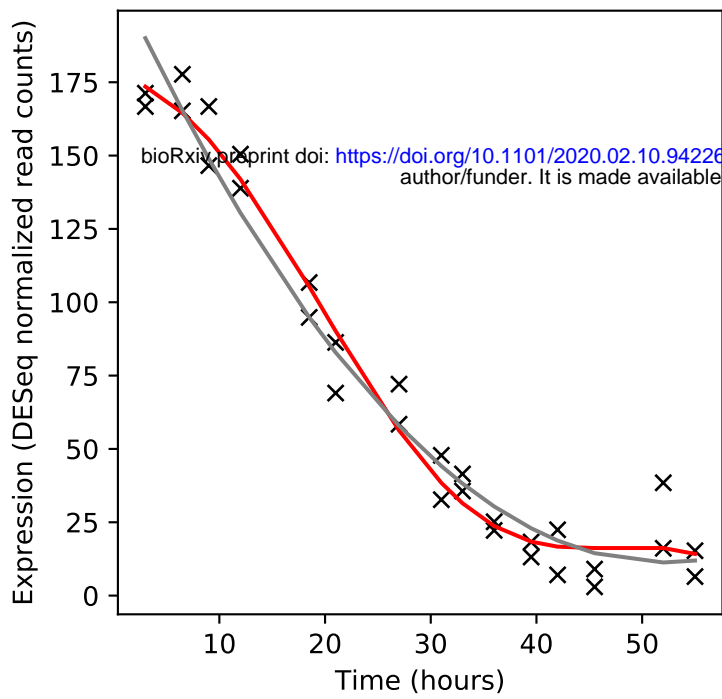
Rv2915c/-



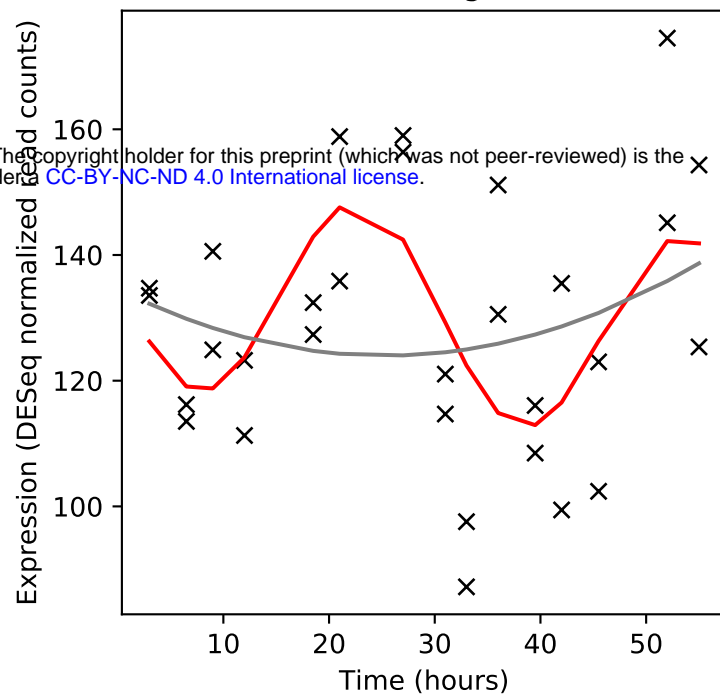
Rv2916c/ffh



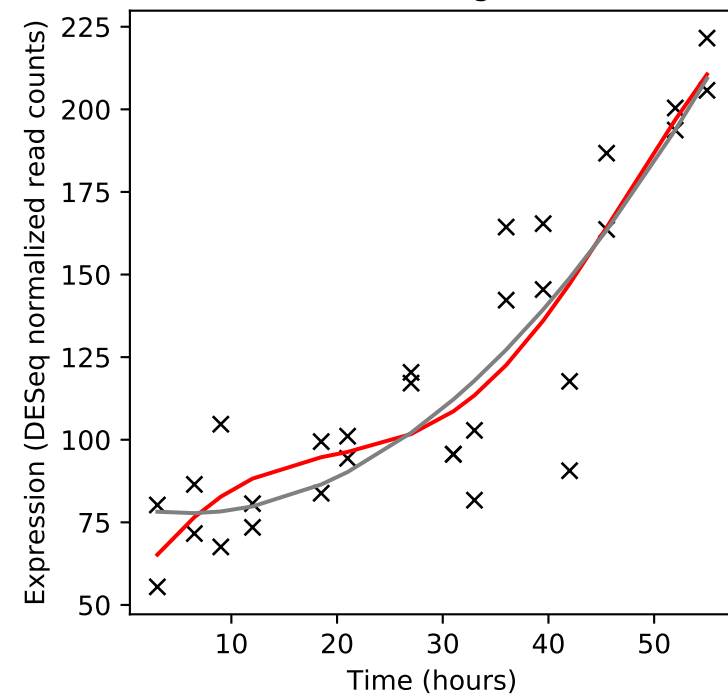
Rv2917/-



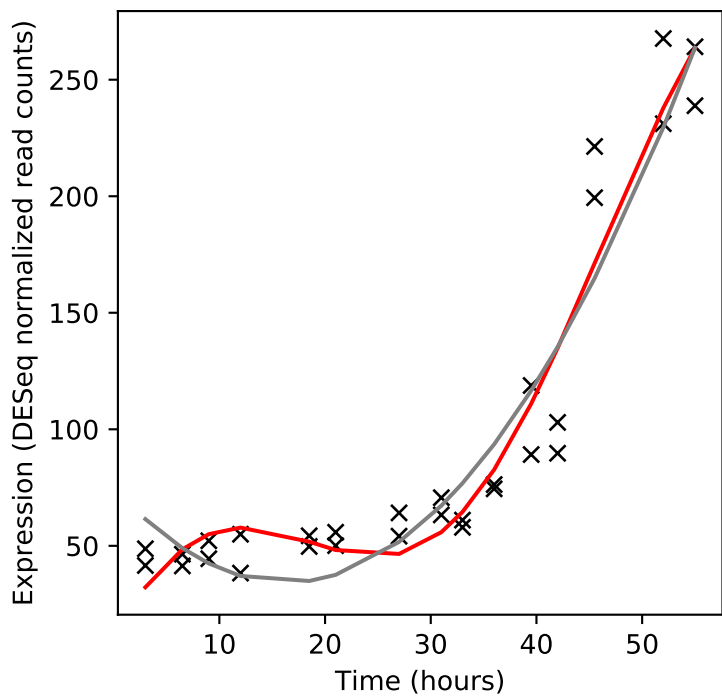
Rv2918c/glnD



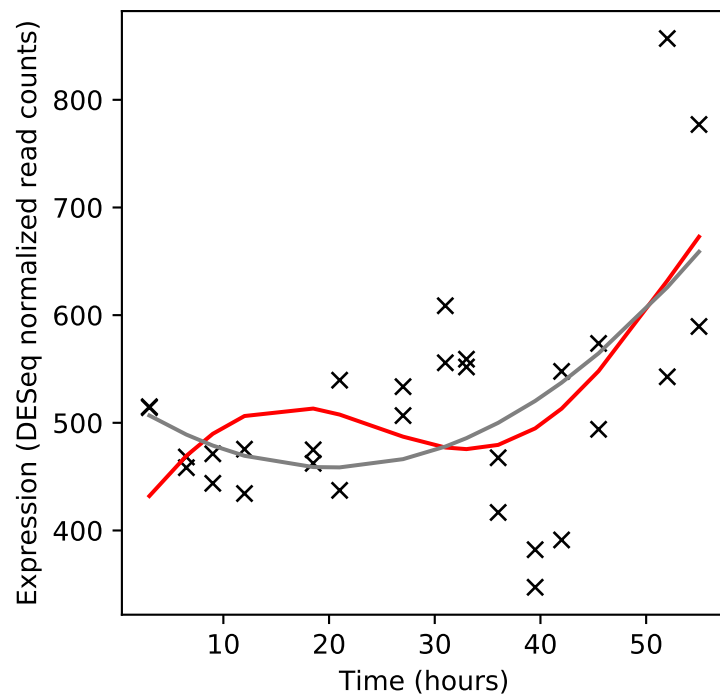
Rv2919c/glnB



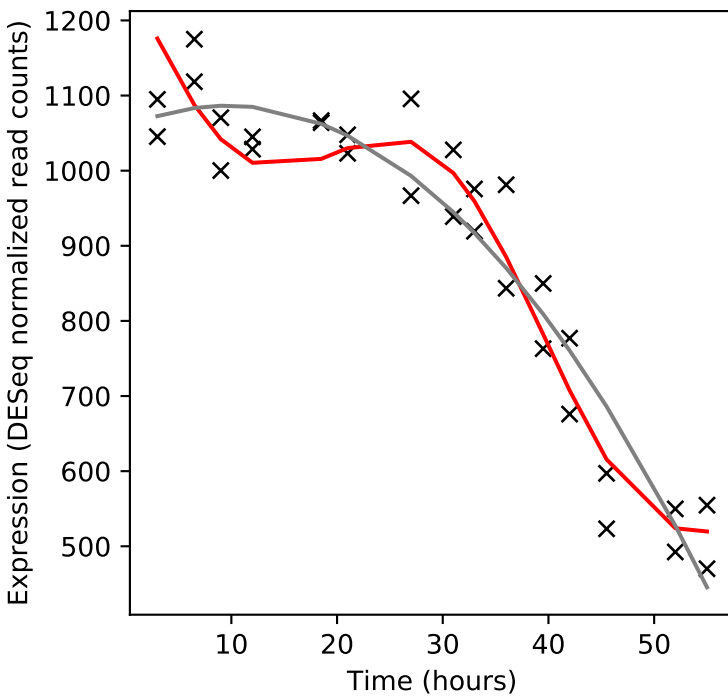
Rv2920c/amt



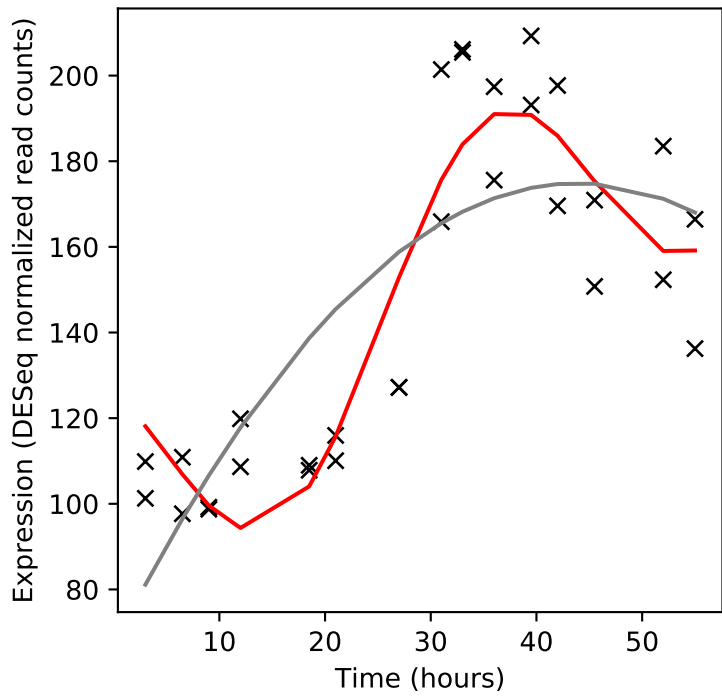
Rv2921c/ftsY



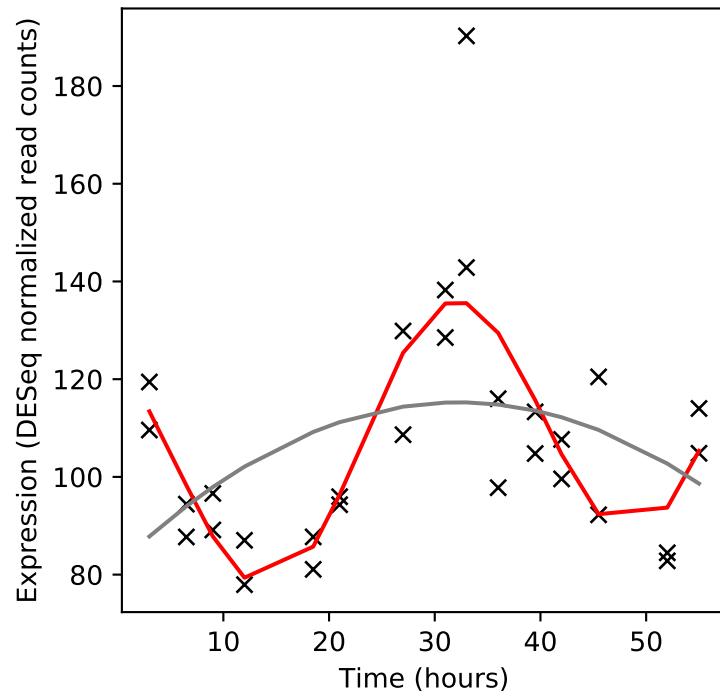
Rv2922c/smc



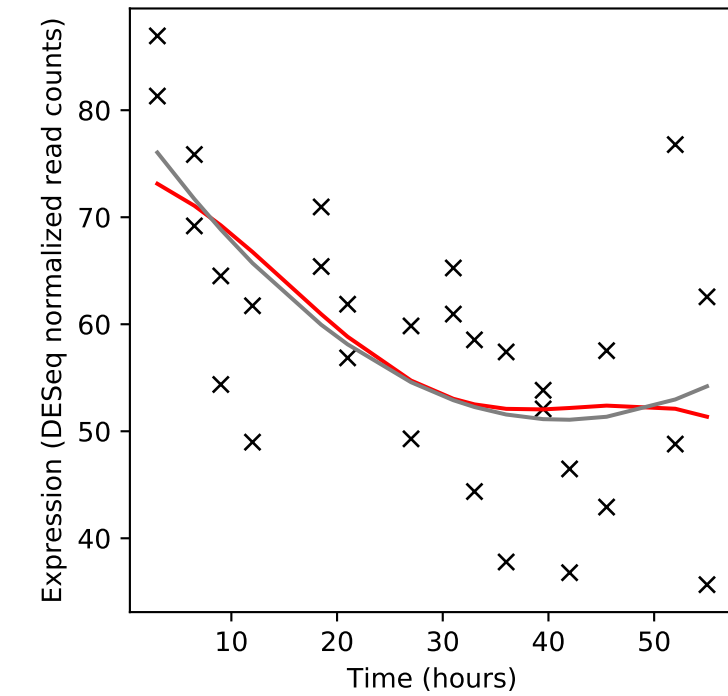
Rv2922A/acyP



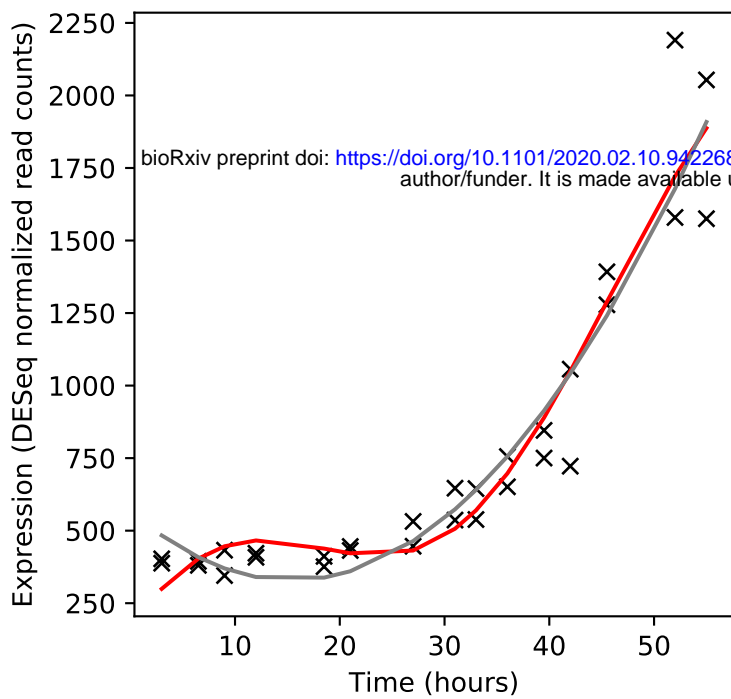
Rv2923c/-



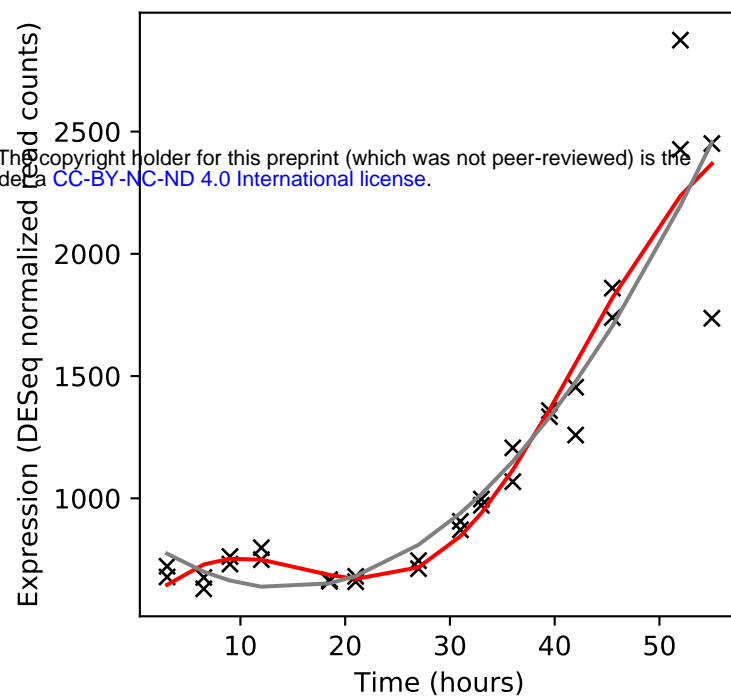
Rv2924c/fpg



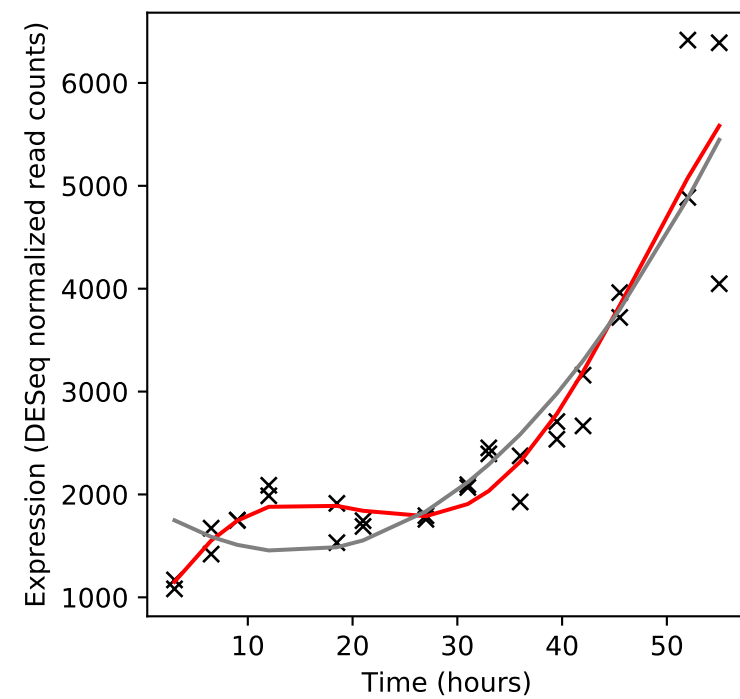
Rv2925c/rnc



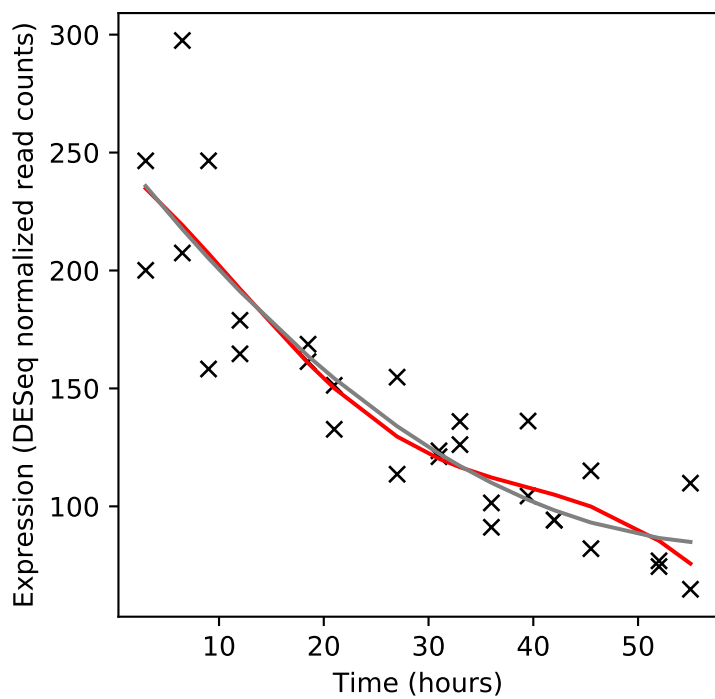
Rv2926c/-



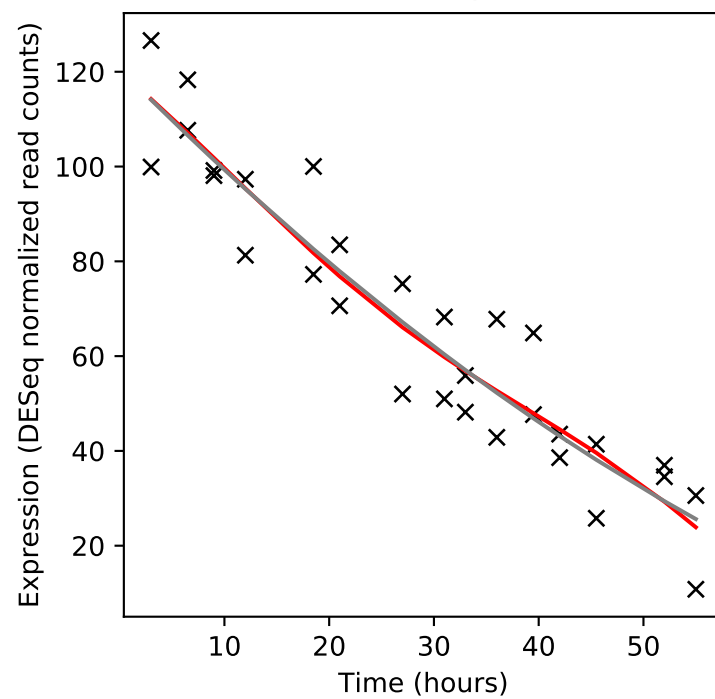
Rv2927c/-



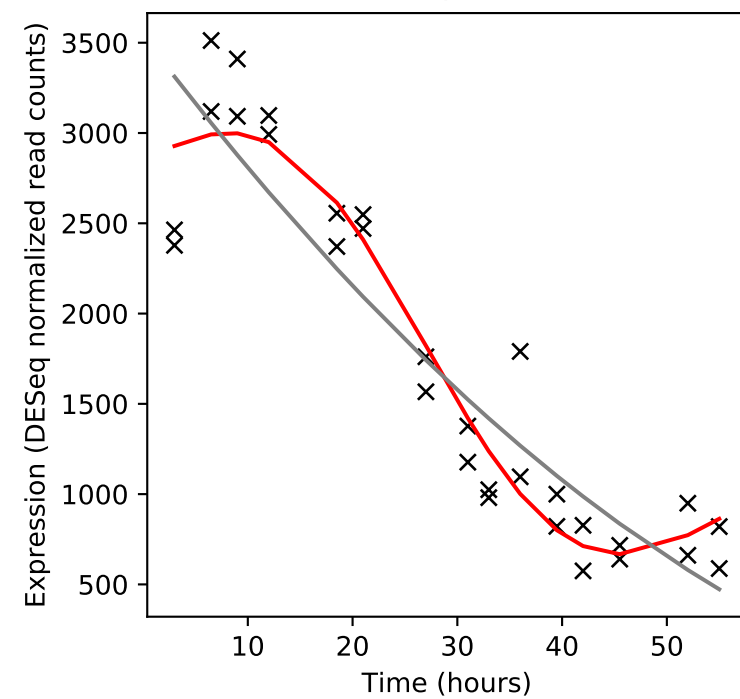
Rv2928/tesA



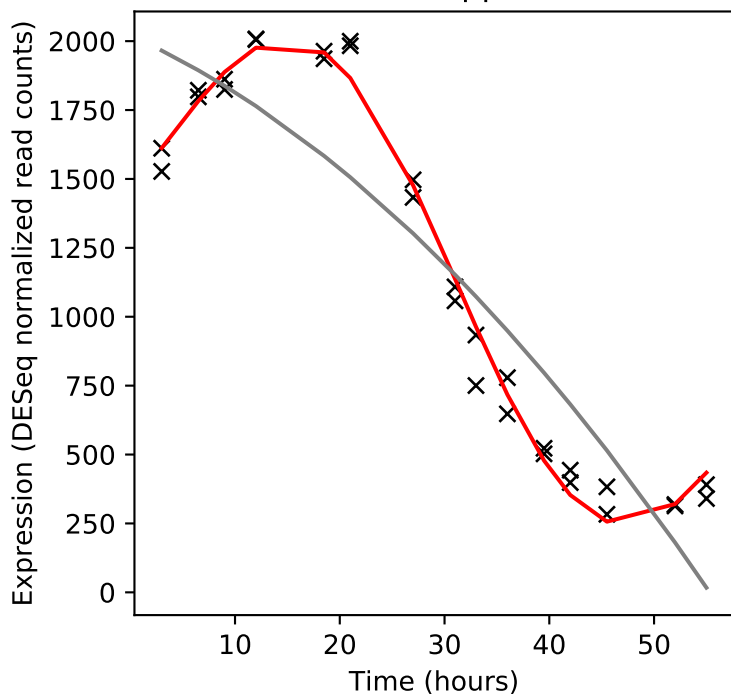
Rv2929/-



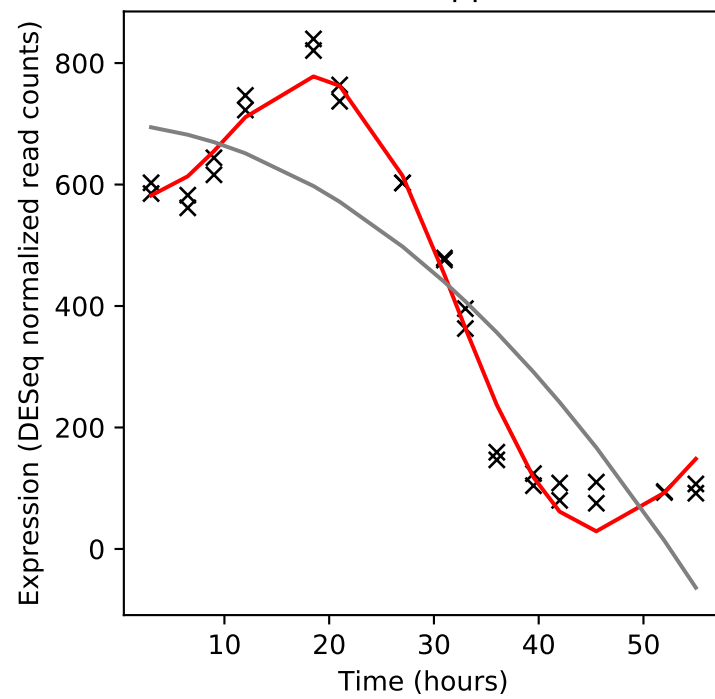
Rv2930/fadD26



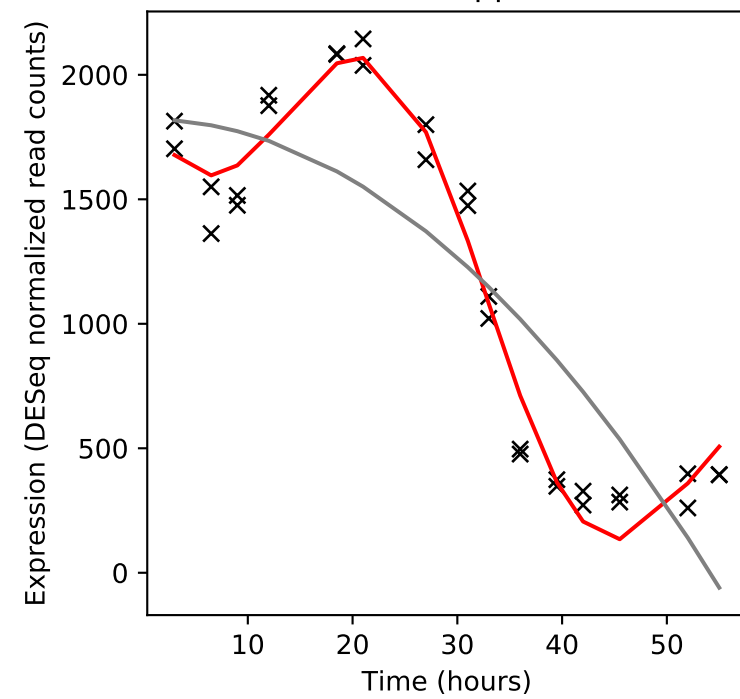
Rv2931/ppsA



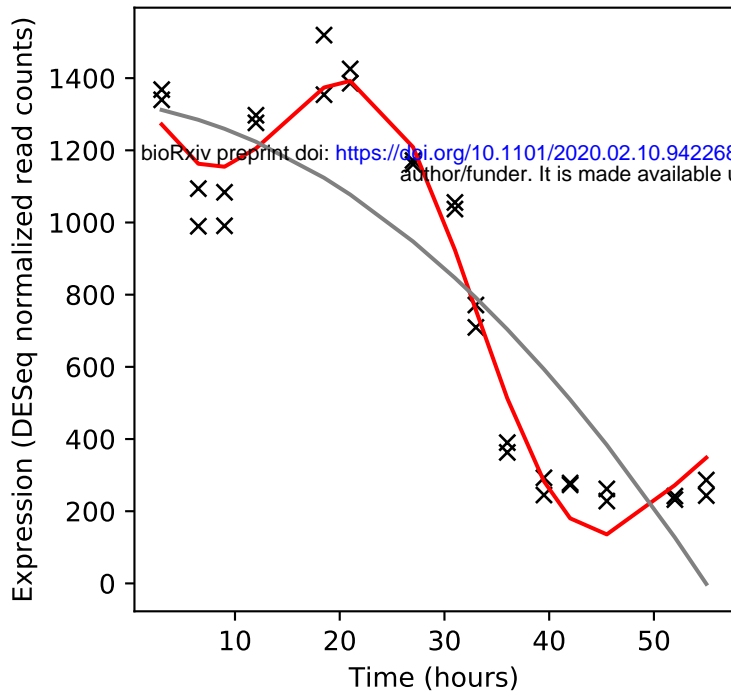
Rv2932/ppsB



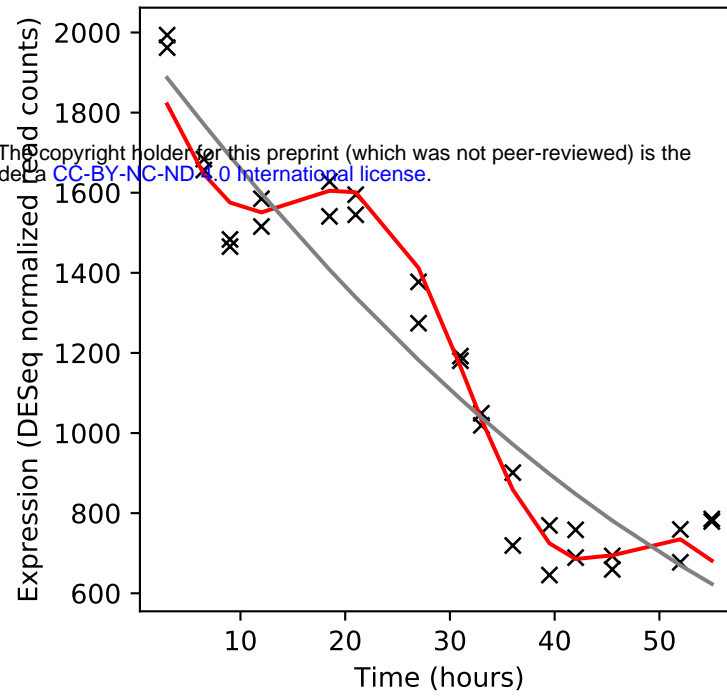
Rv2933/ppsC



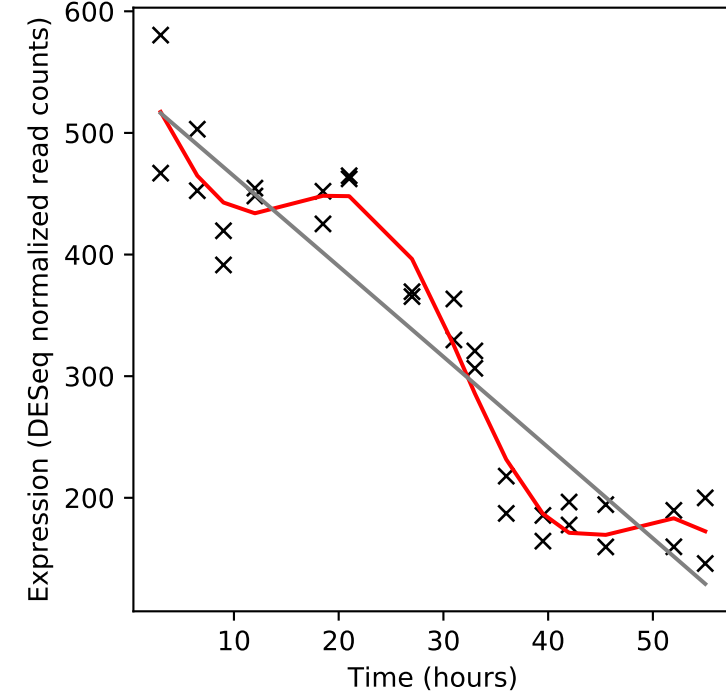
Rv2934/ppsD



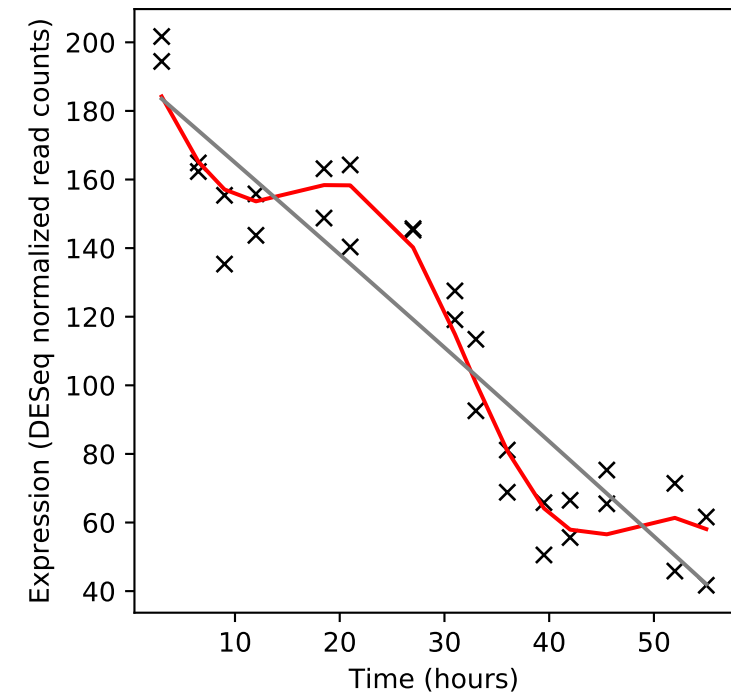
Rv2935/ppsE



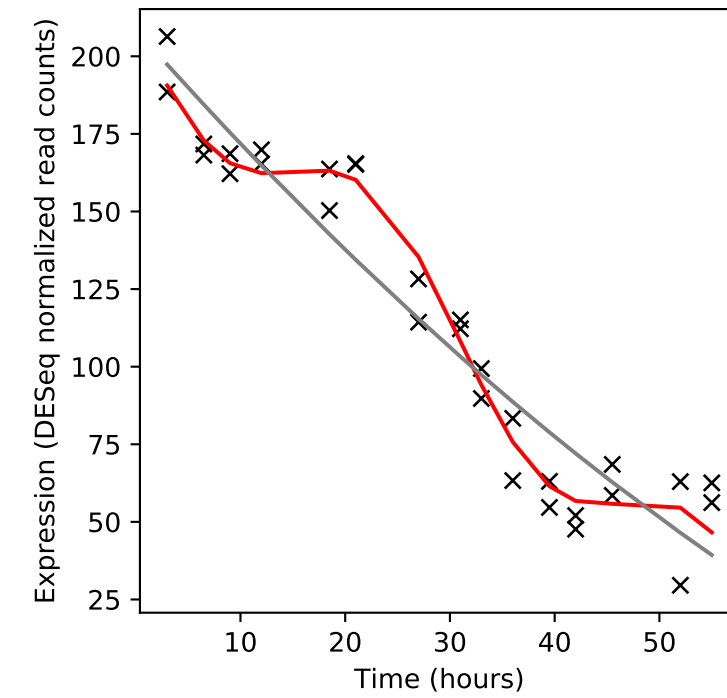
Rv2936/drrA



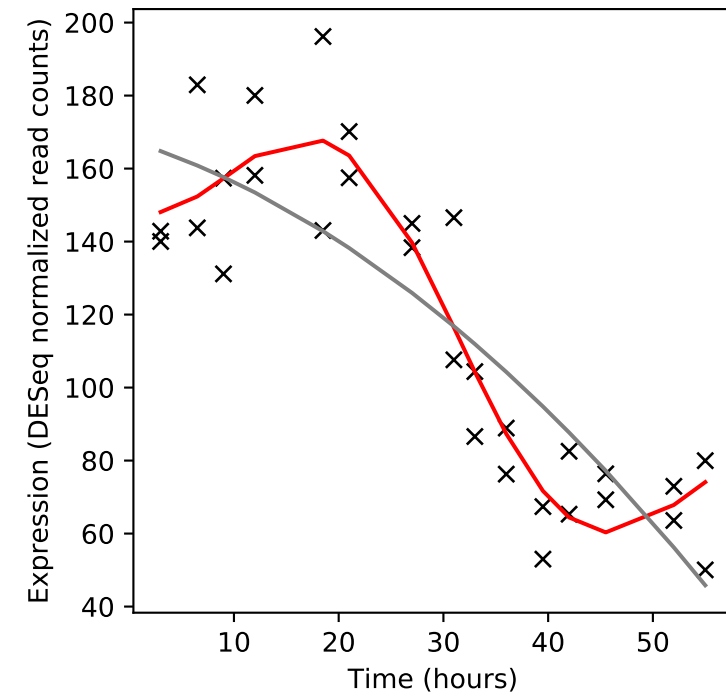
Rv2937/drrB



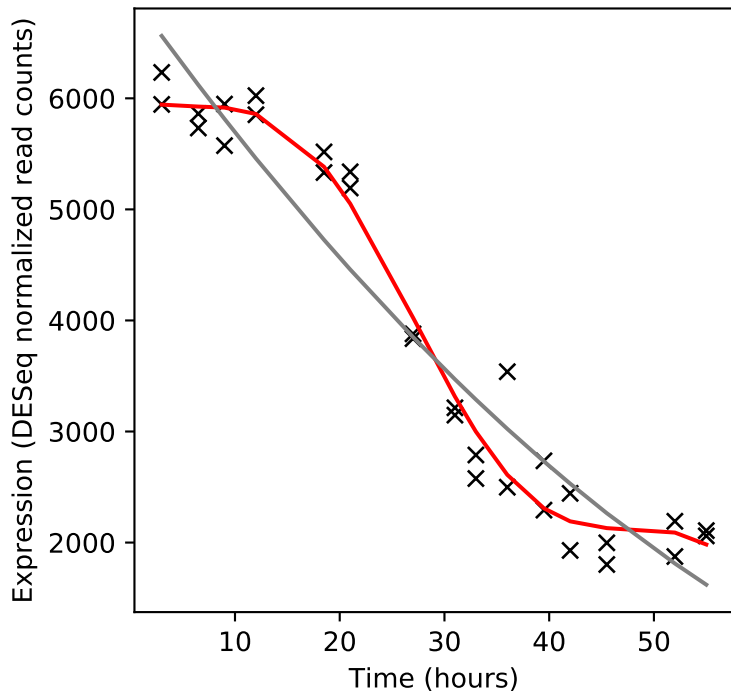
Rv2938/drrC



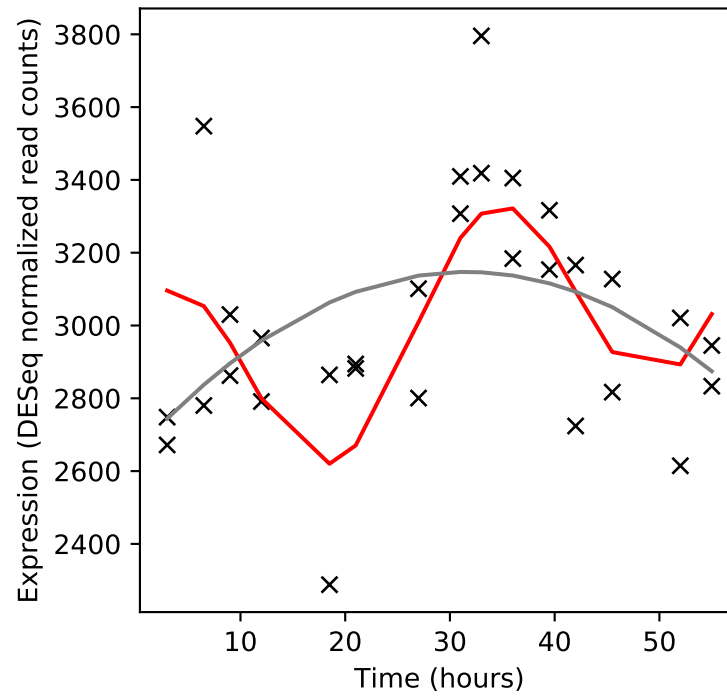
Rv2939/papA5



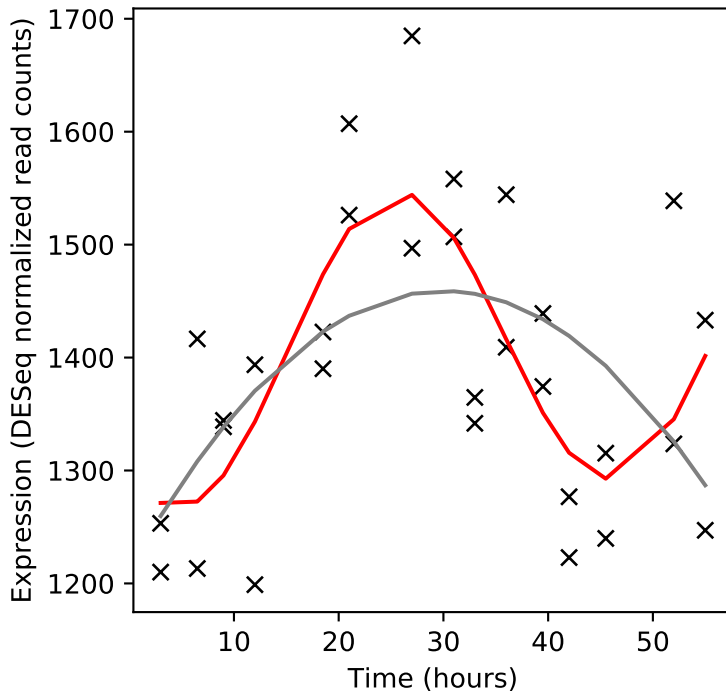
Rv2940c/mas



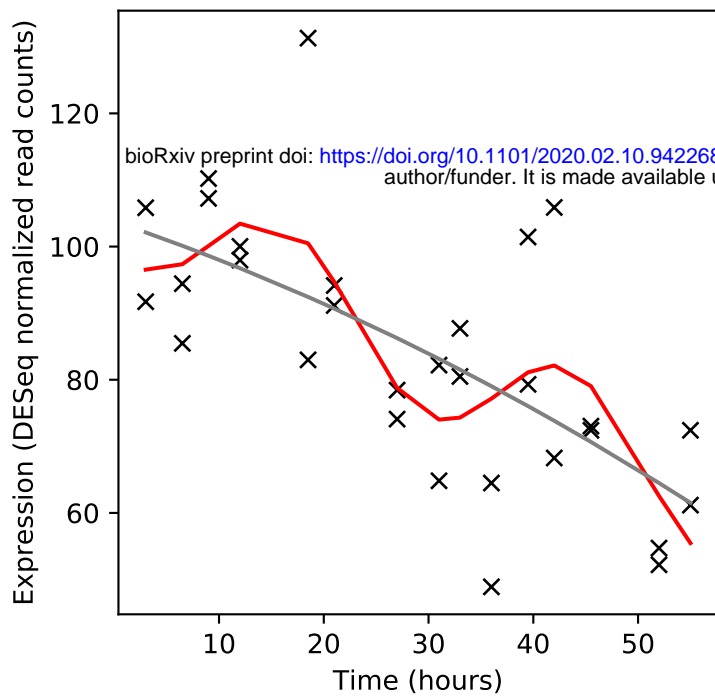
Rv2941/fadD28



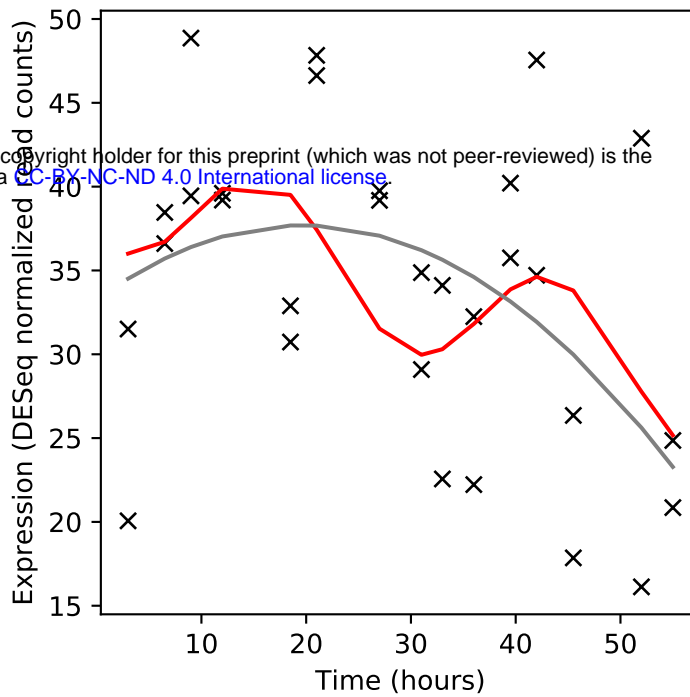
Rv2942/mmpL7



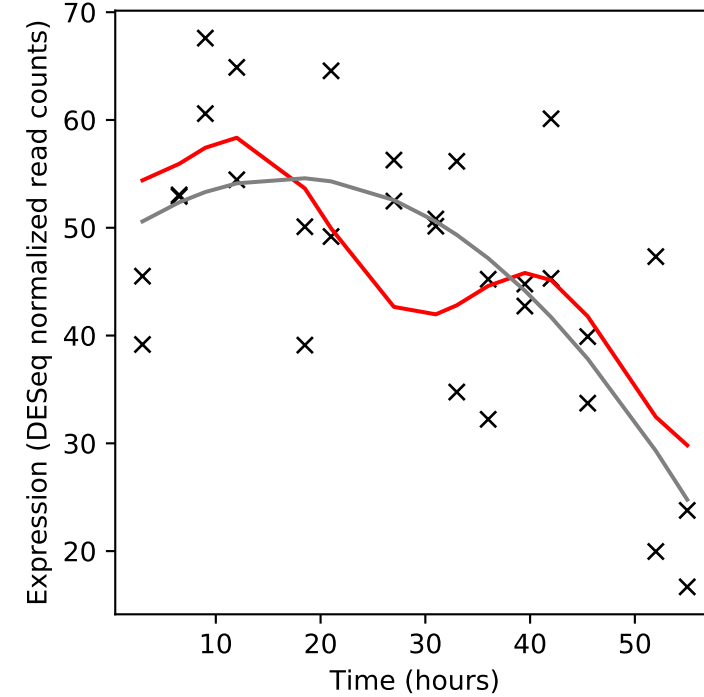
Rv2943/-



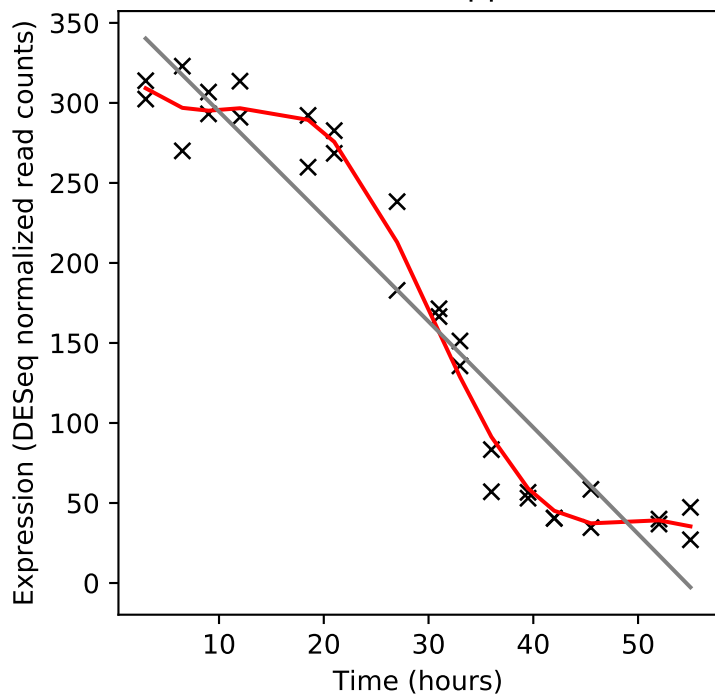
Rv2943A/-



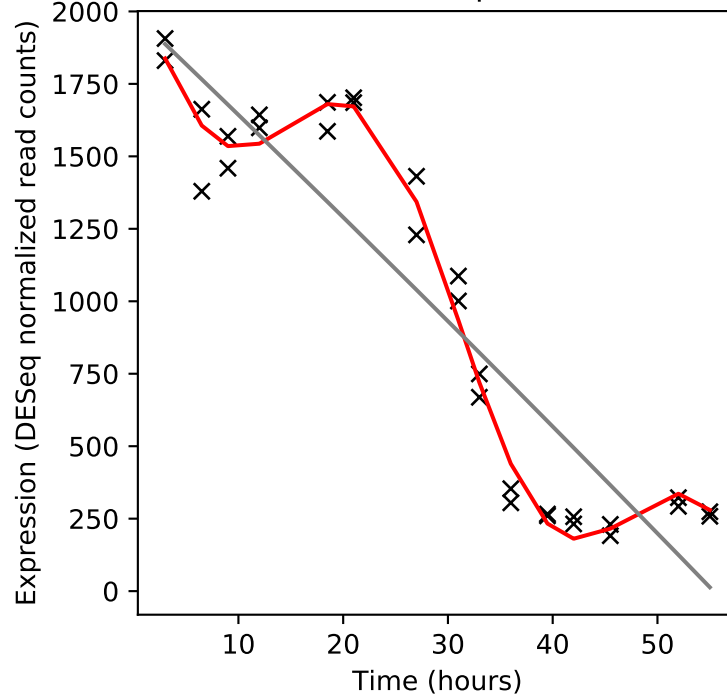
Rv2944/-



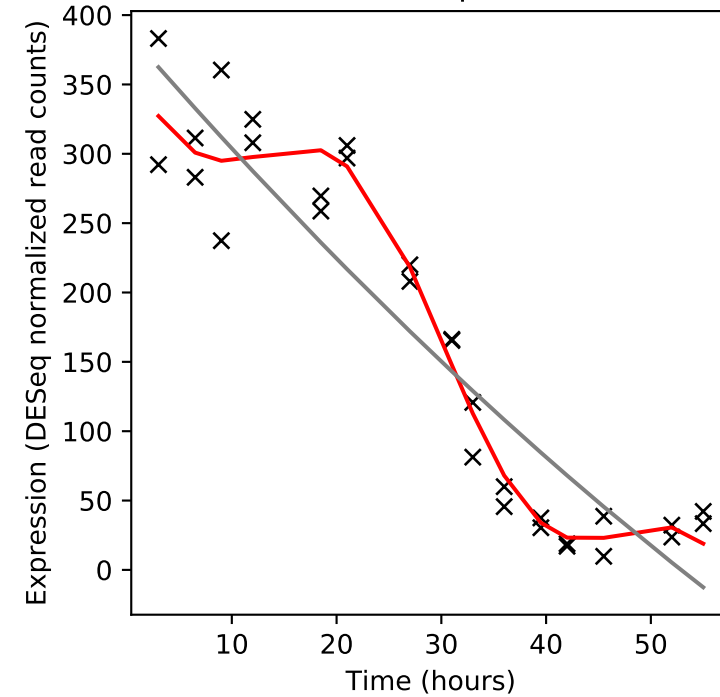
Rv2945c/lppX



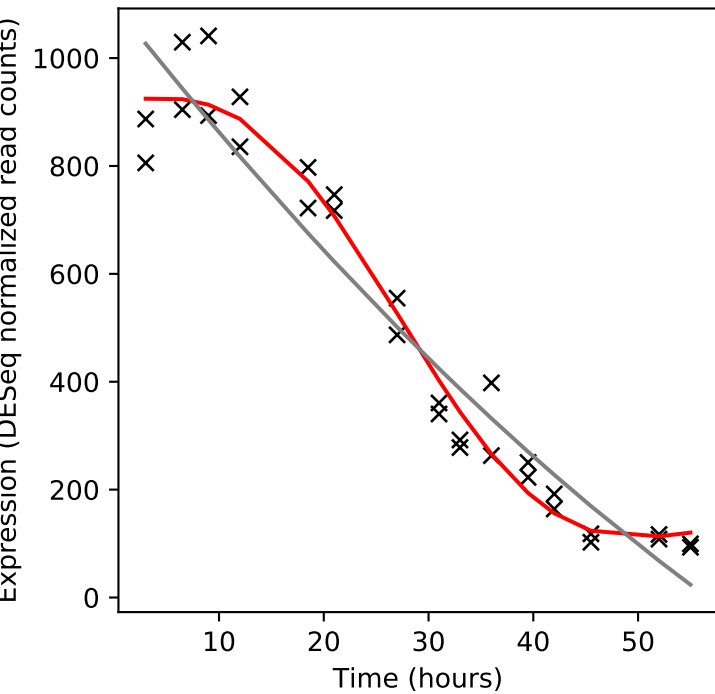
Rv2946c/pks1



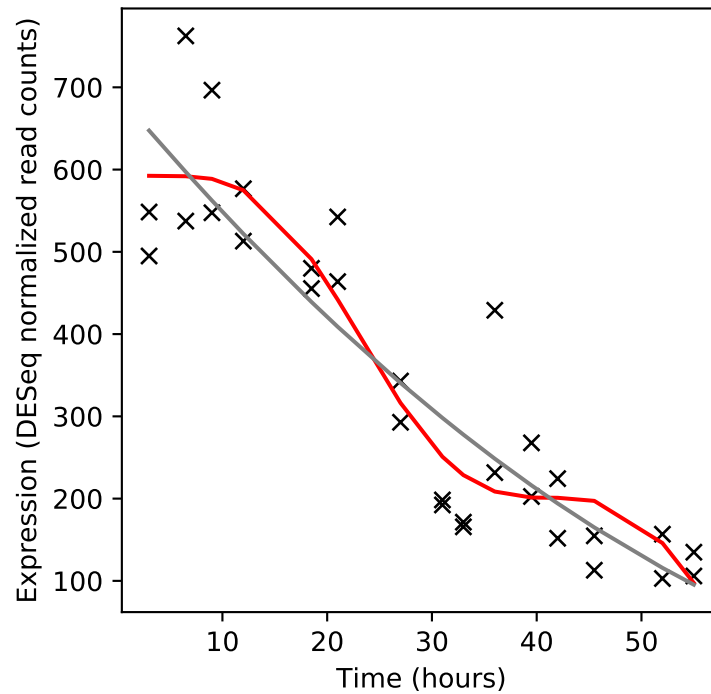
Rv2947c/pks15



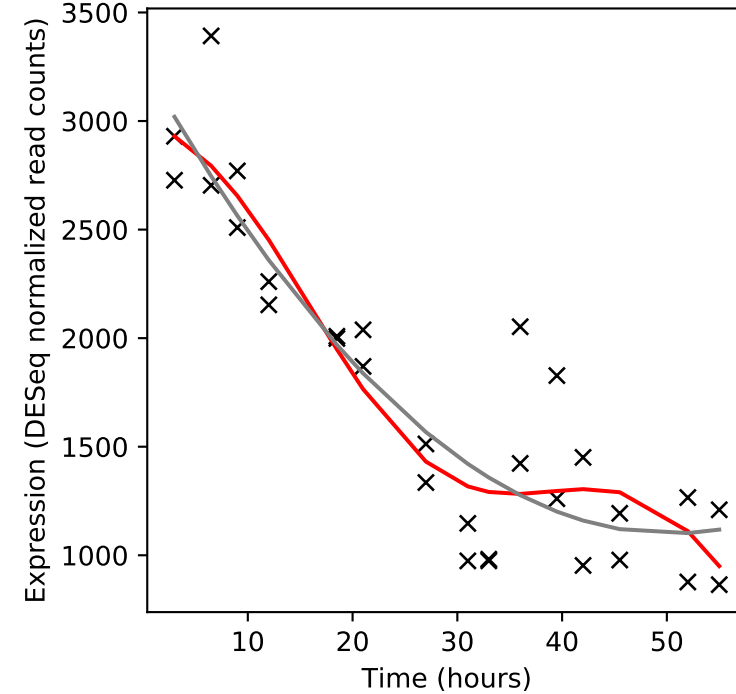
Rv2948c/fadD22



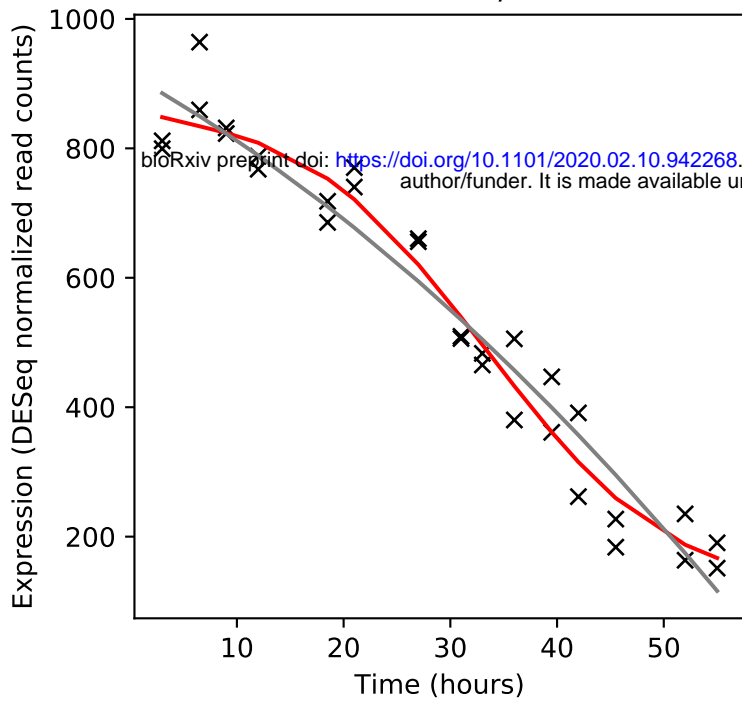
Rv2949c/-



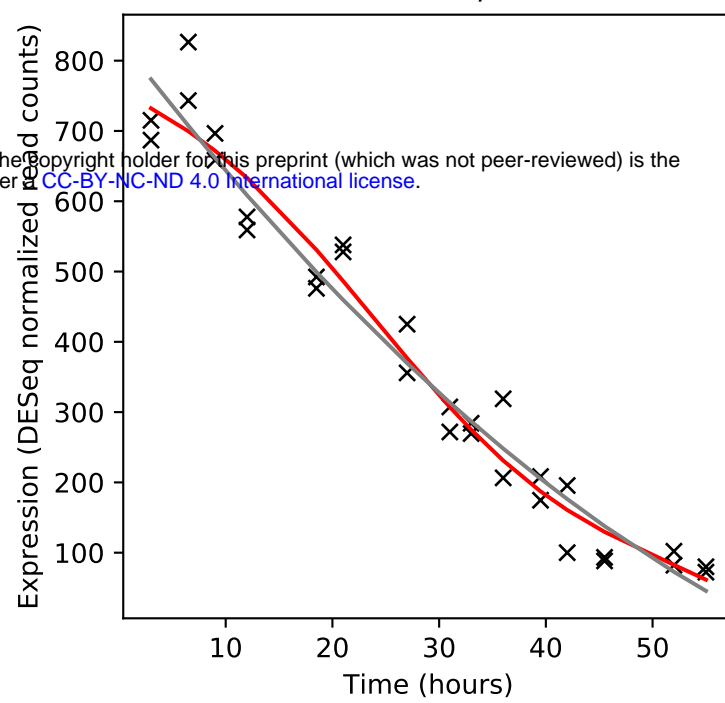
Rv2950c/fadD29



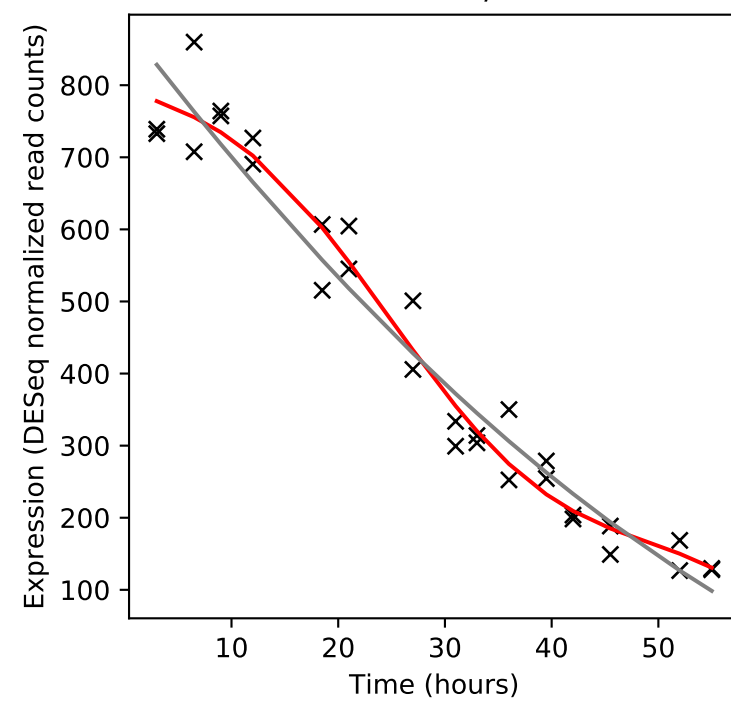
Rv2951c/-



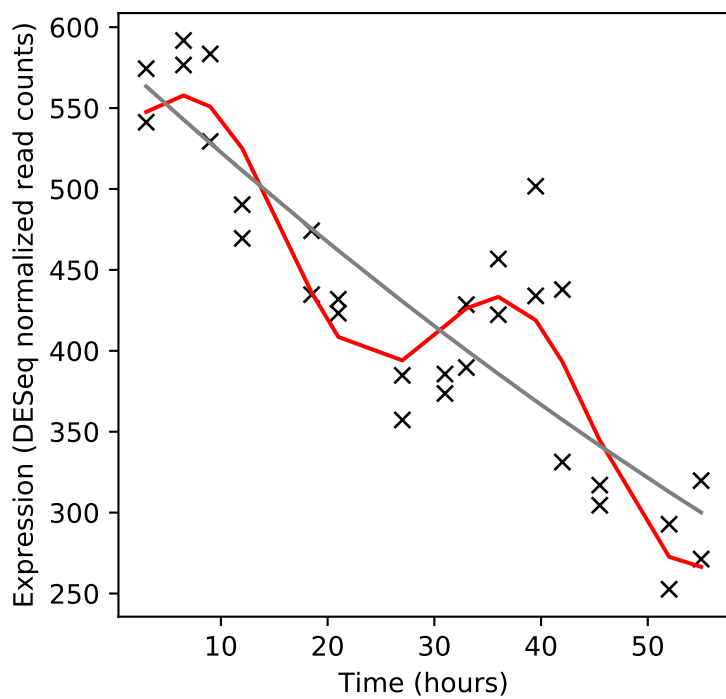
Rv2952/-



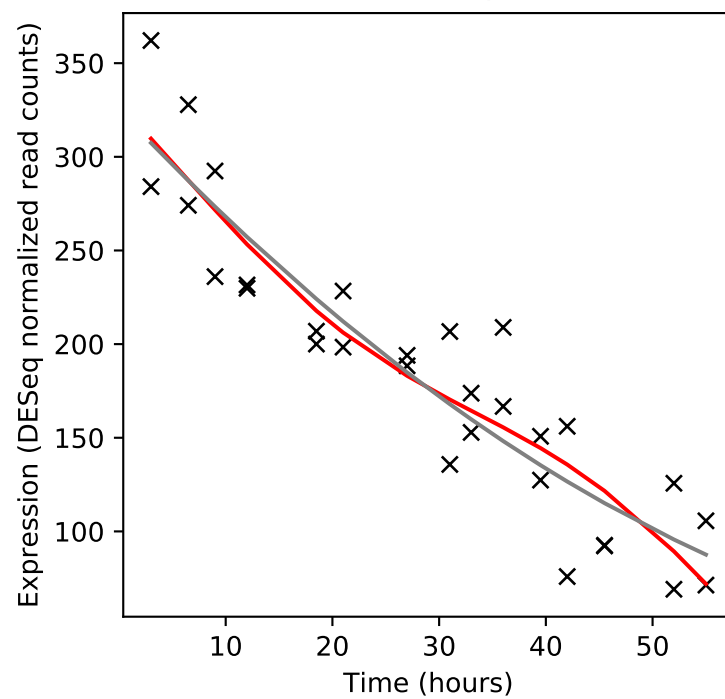
Rv2953/-



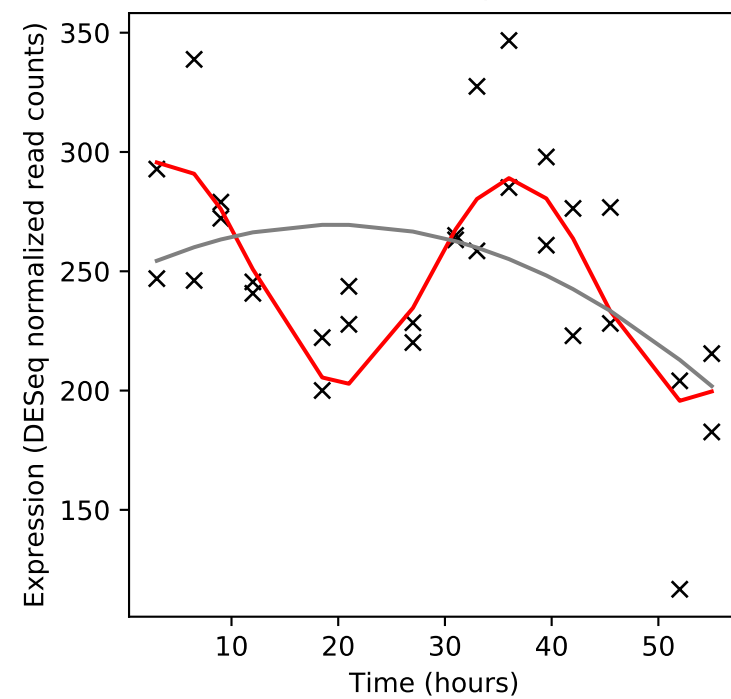
Rv2954c/-



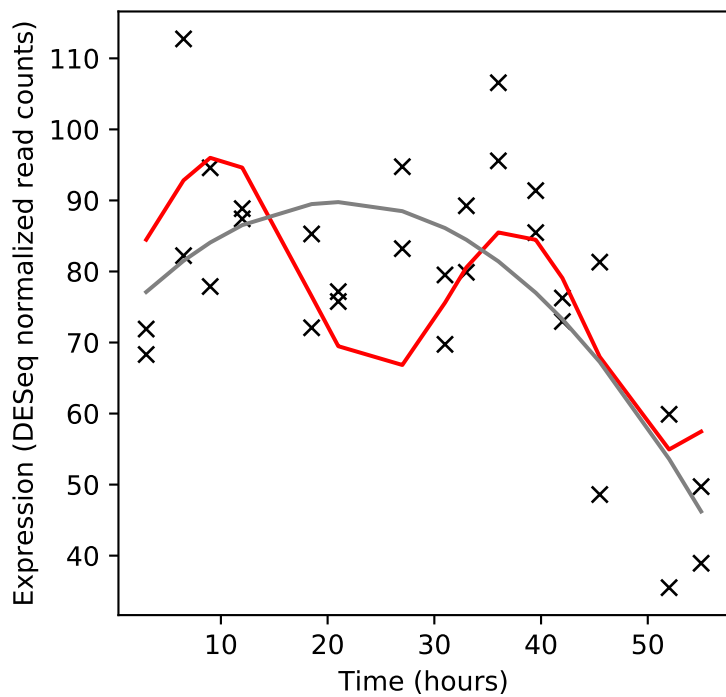
Rv2955c/-



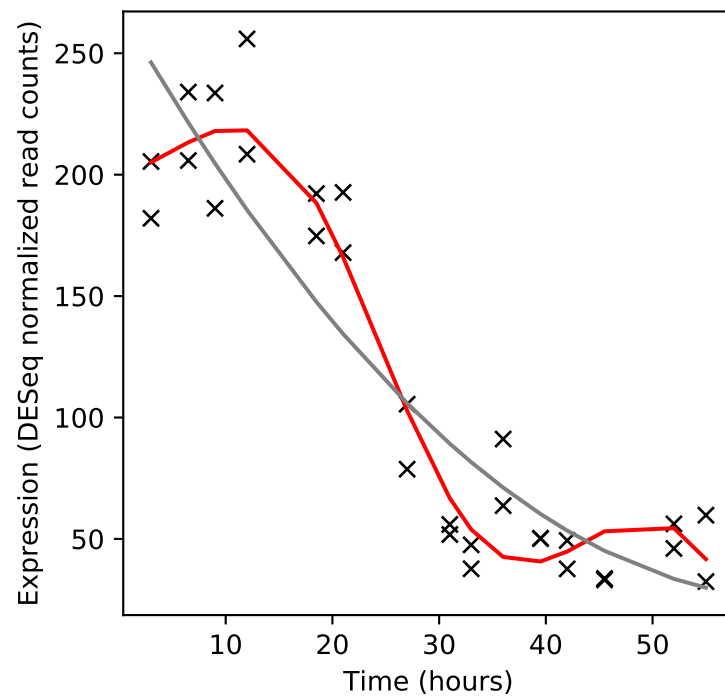
Rv2956/-



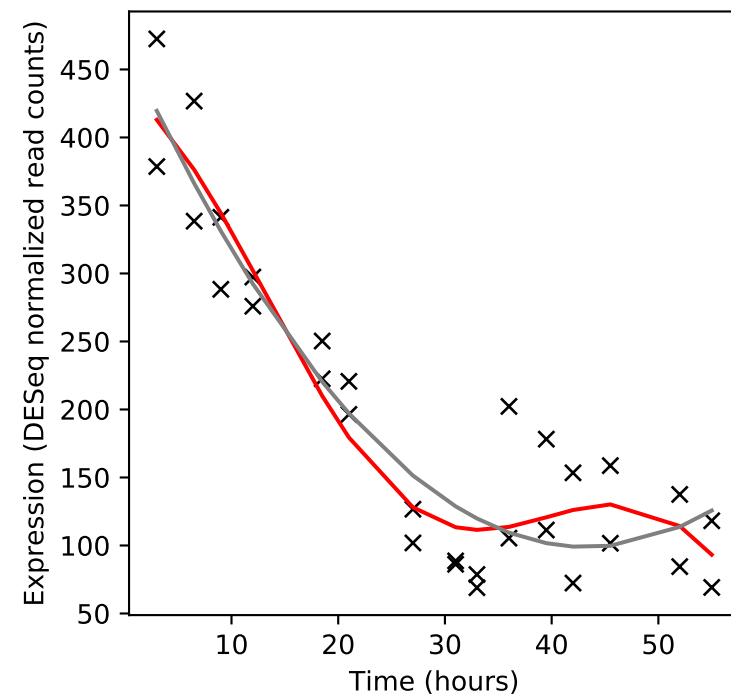
Rv2957/-



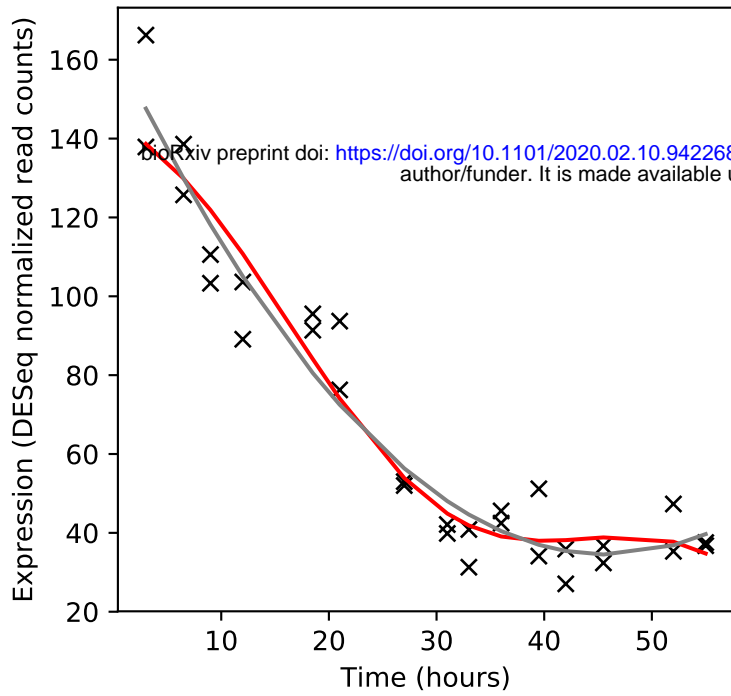
Rv2958c/-



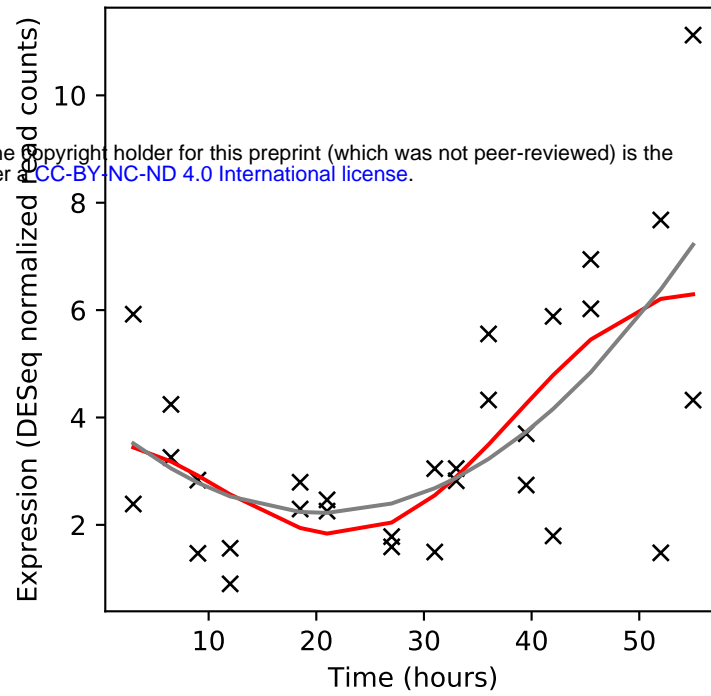
Rv2959c/-



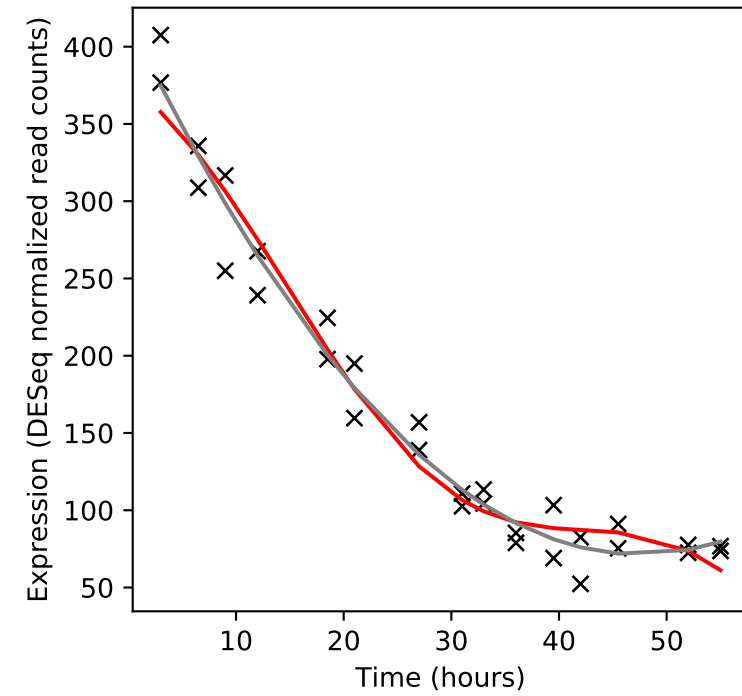
Rv2960c/-



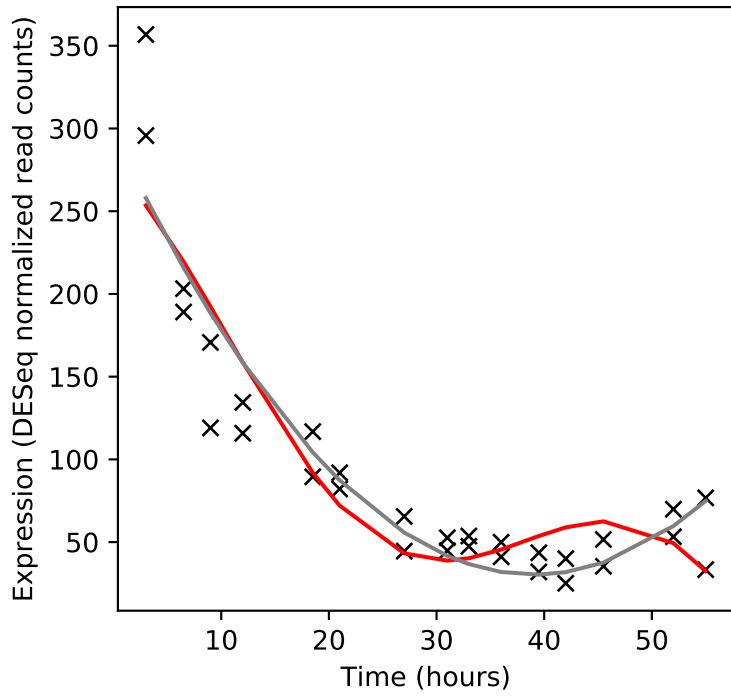
Rv2961/-



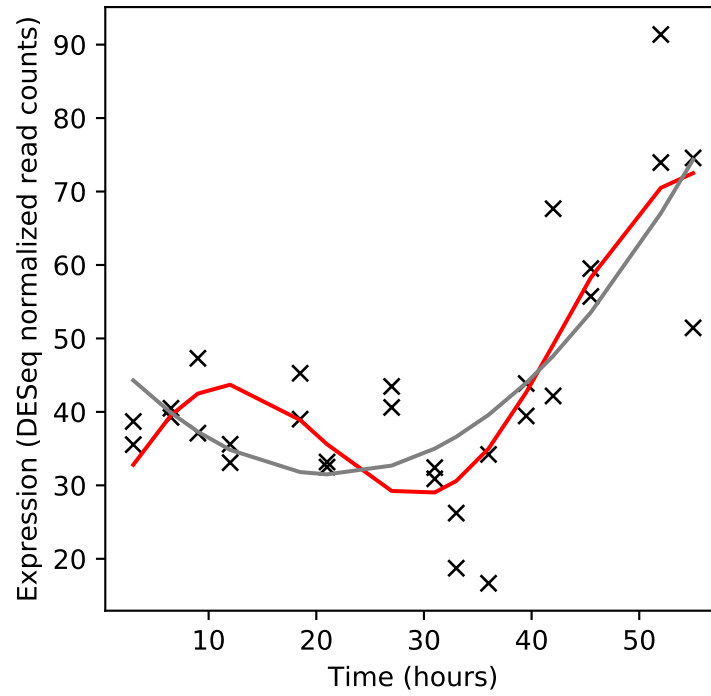
Rv2962c/-



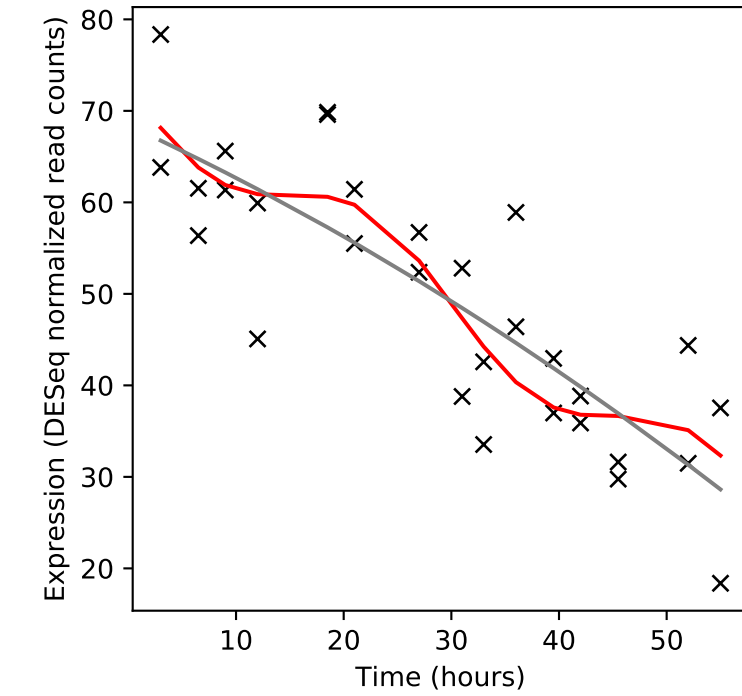
Rv2963/-



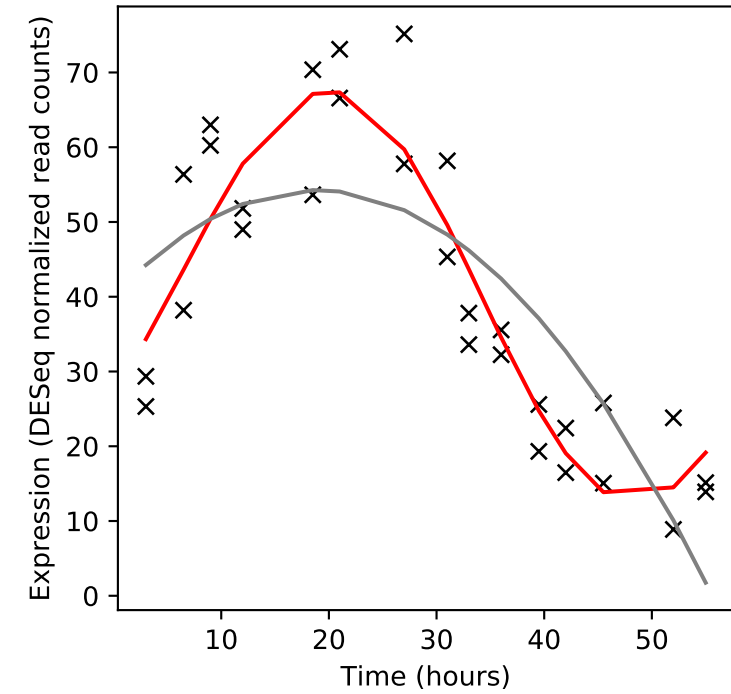
Rv2964/purU



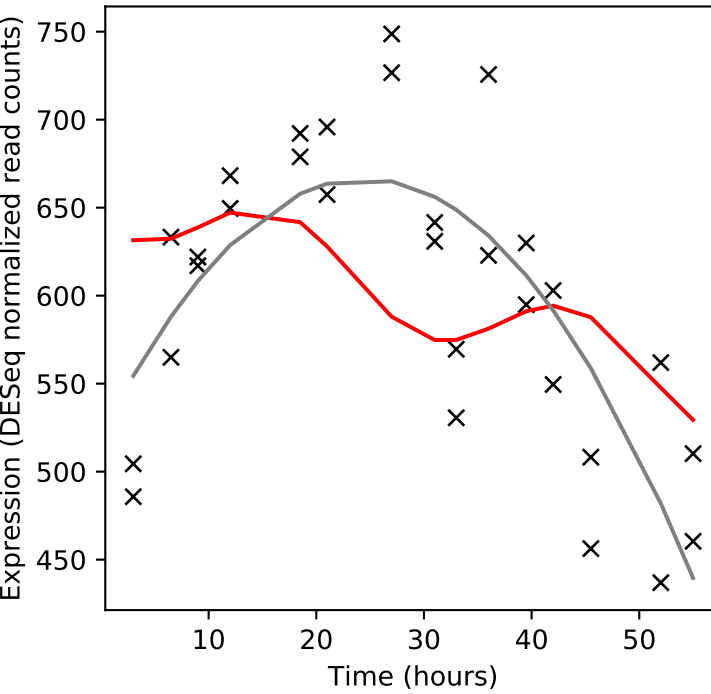
Rv2965c/kdtB



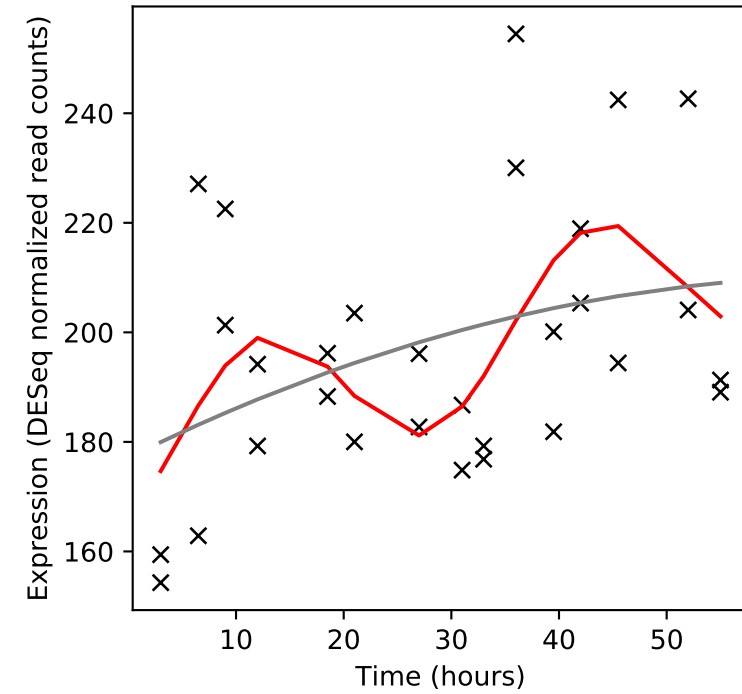
Rv2966c/-



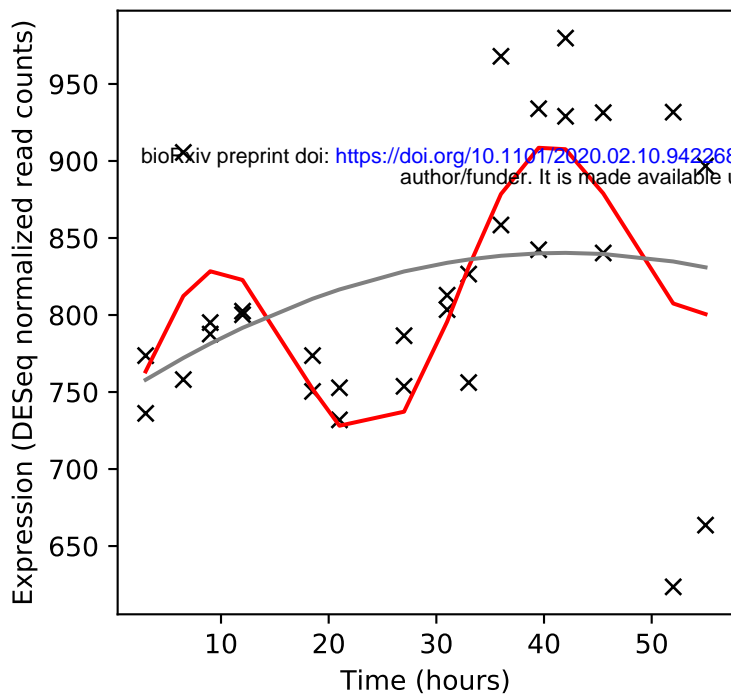
Rv2967c/pca



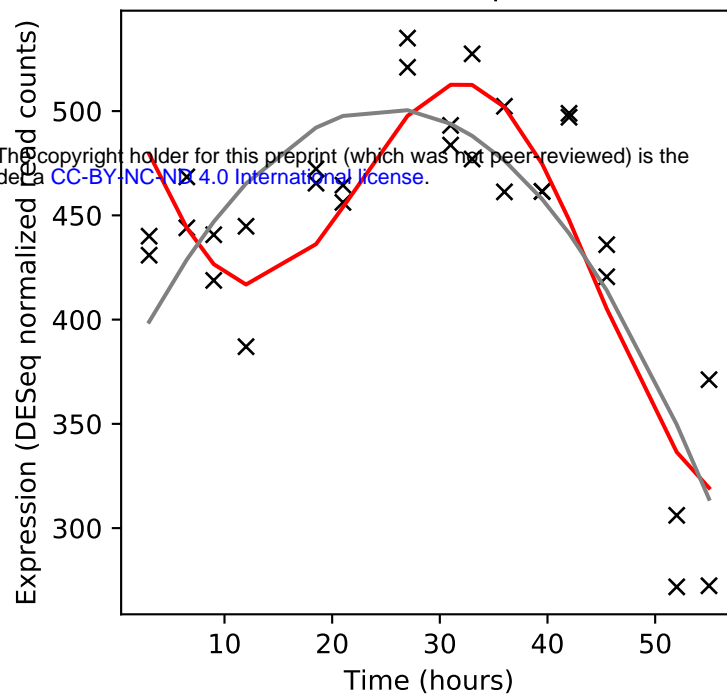
Rv2968c/-



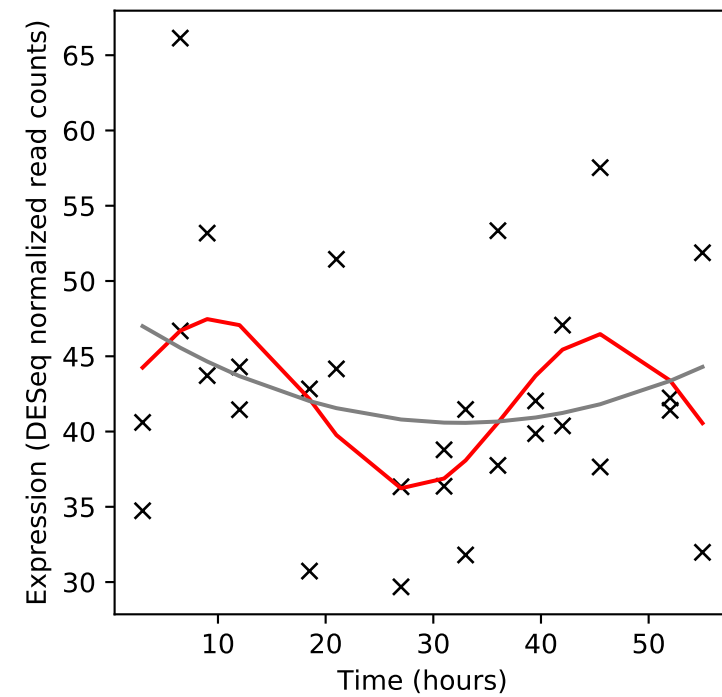
Rv2969c/-



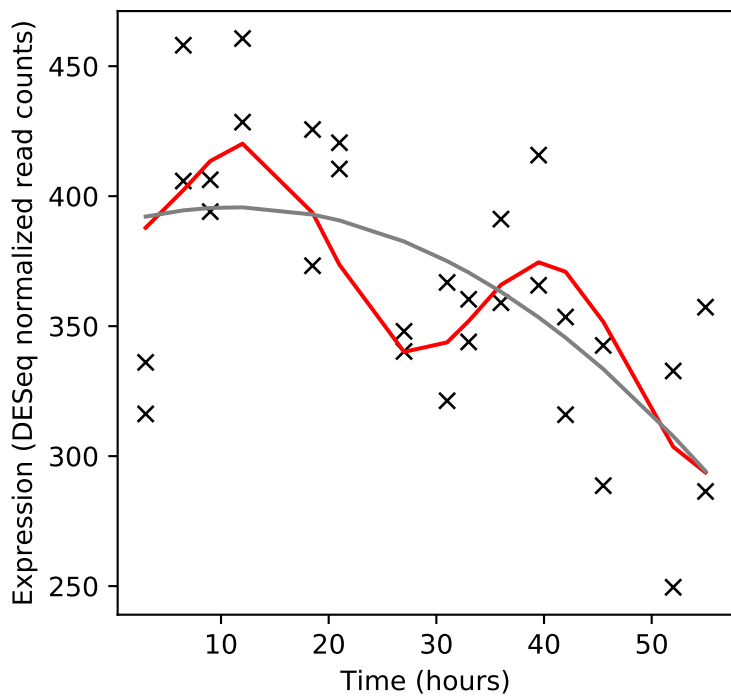
Rv2970c/lipN



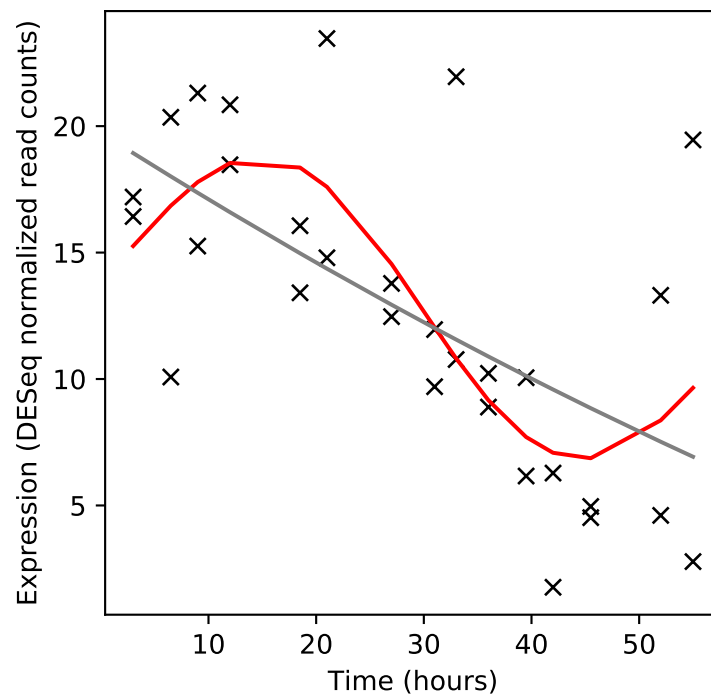
Rv2970A/-



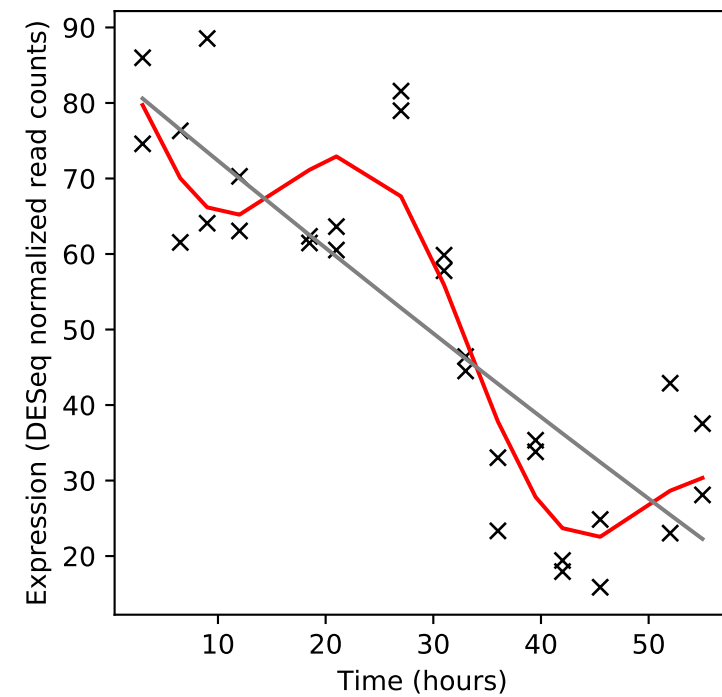
Rv2971/-



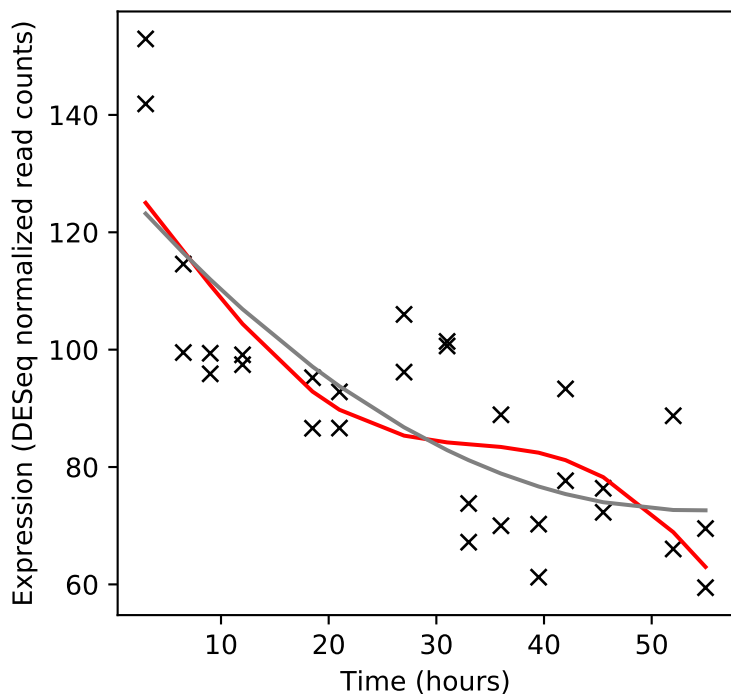
Rv2972c/-



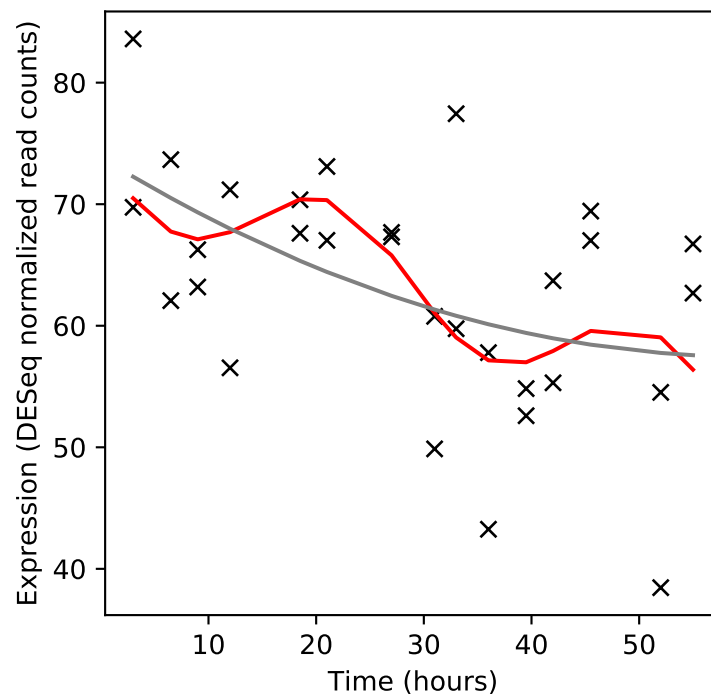
Rv2973c/recG



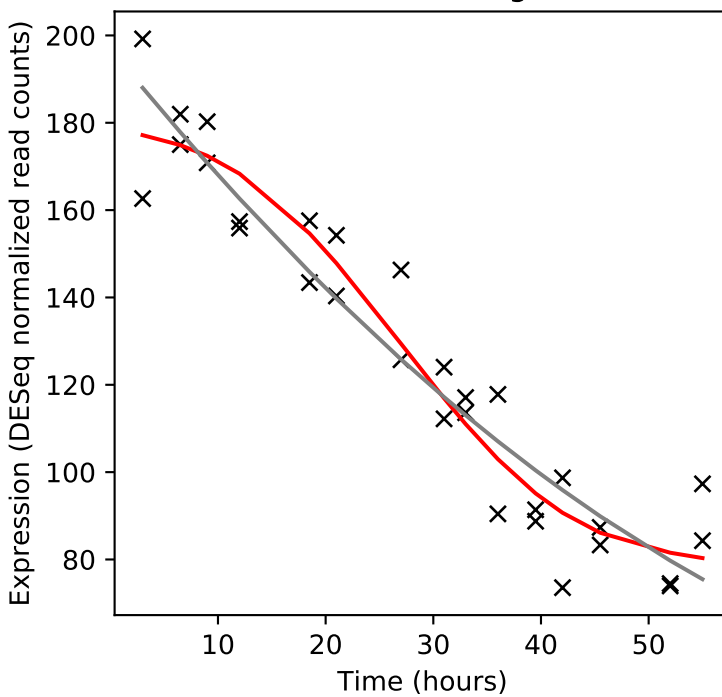
Rv2974c/-



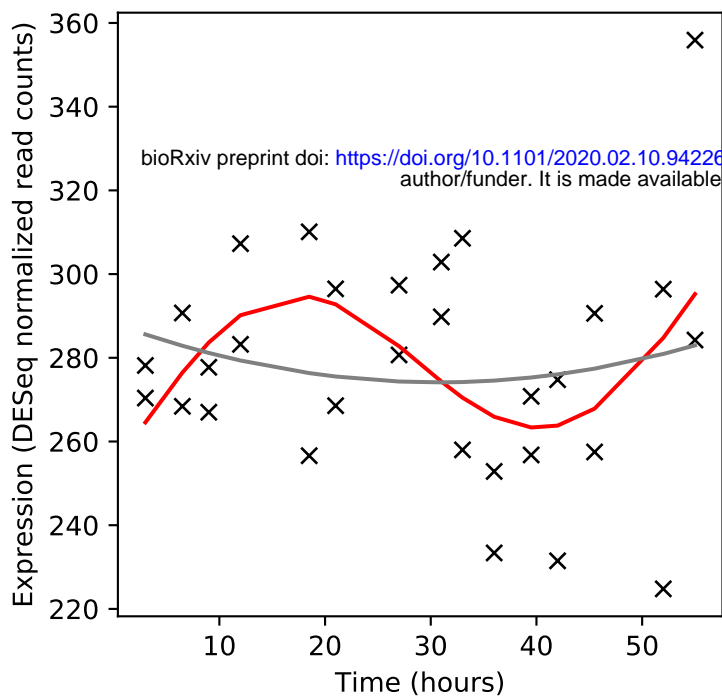
Rv2975c/-



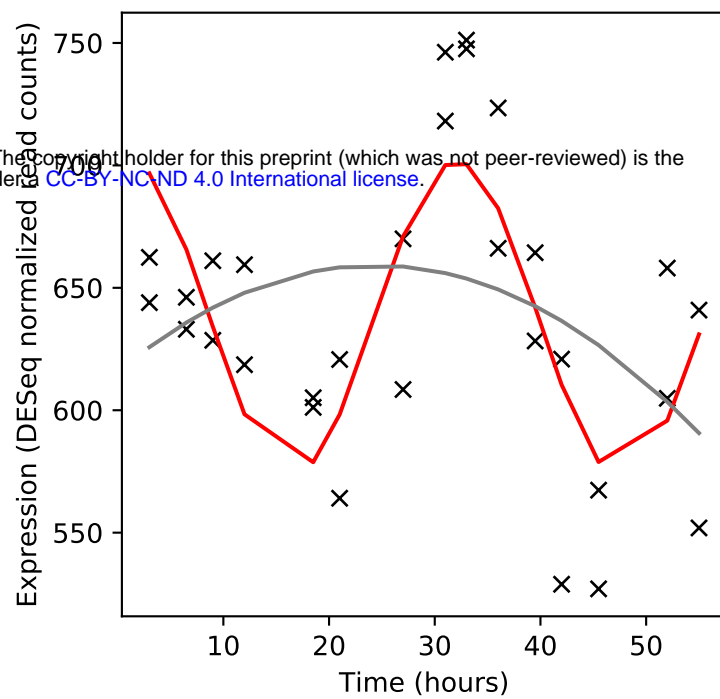
Rv2976c/ung



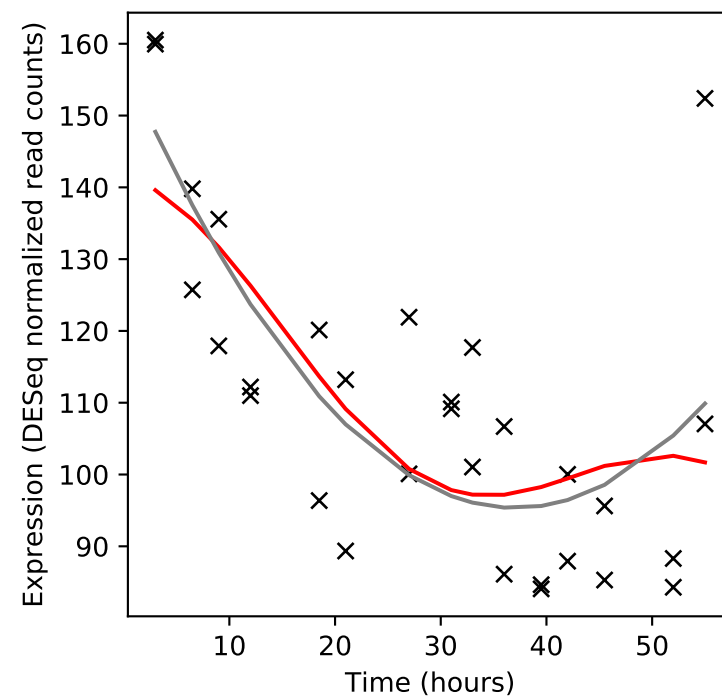
Rv2977c/thiL



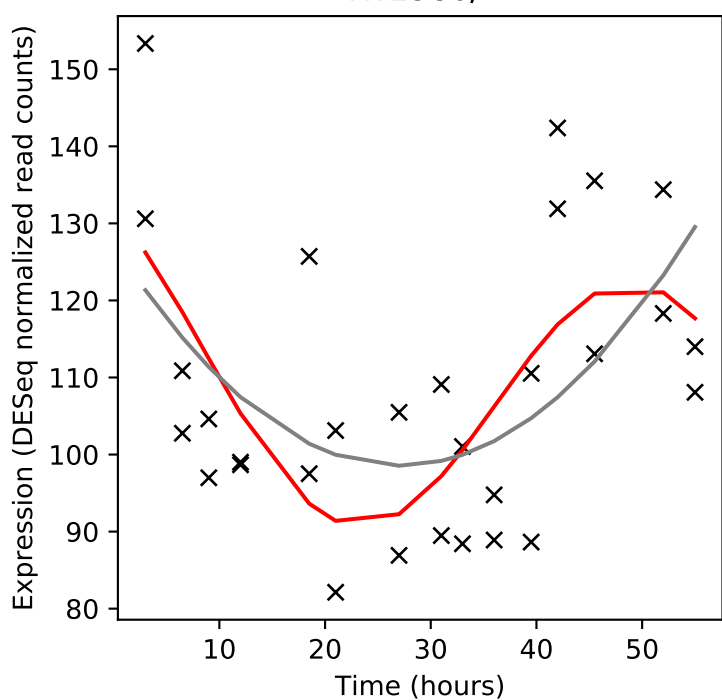
Rv2978c/-



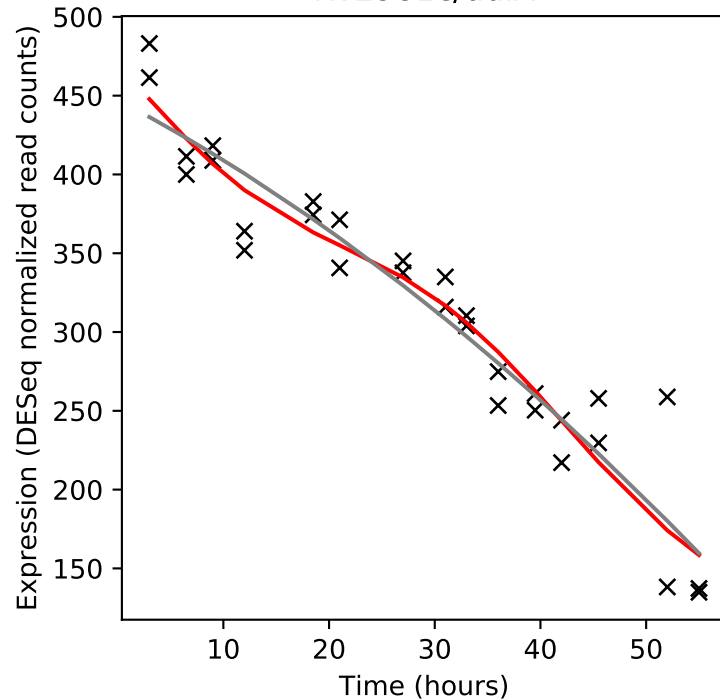
Rv2979c/-



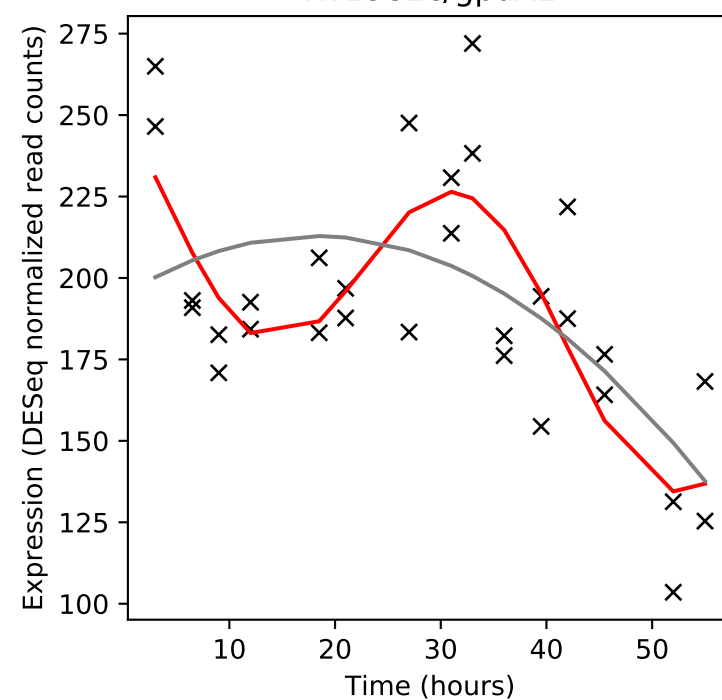
Rv2980/-



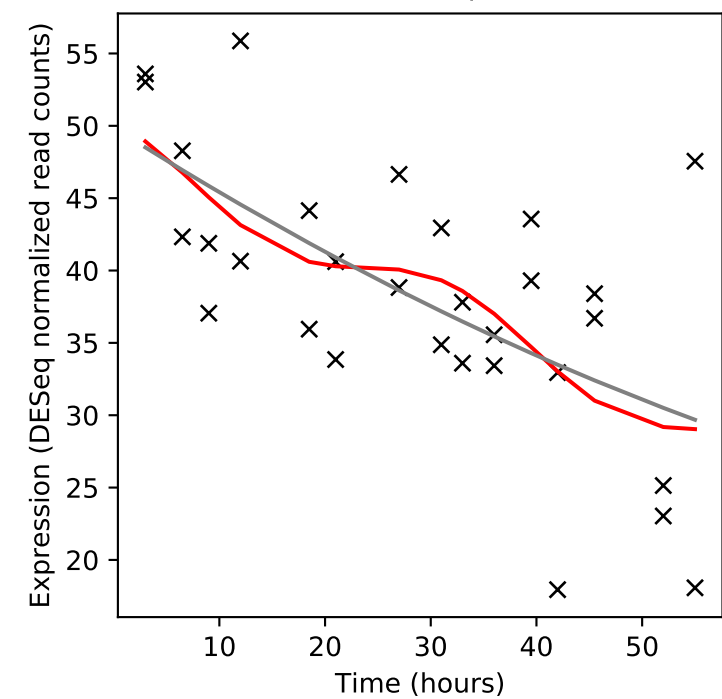
Rv2981c/ddIA



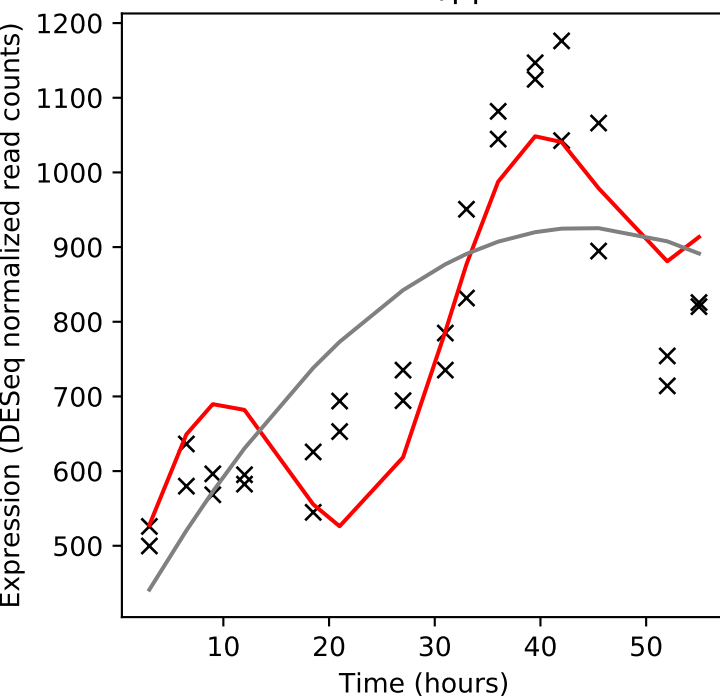
Rv2982c/gpdA2



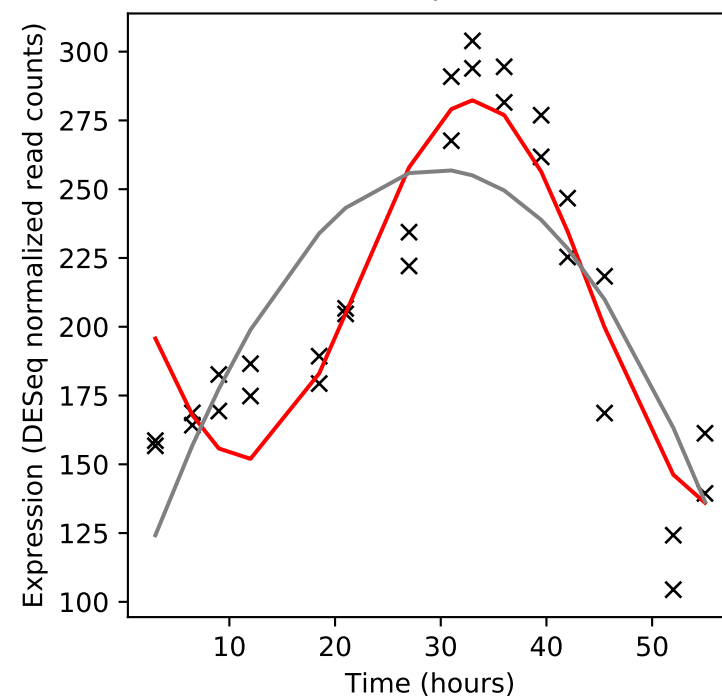
Rv2983/-



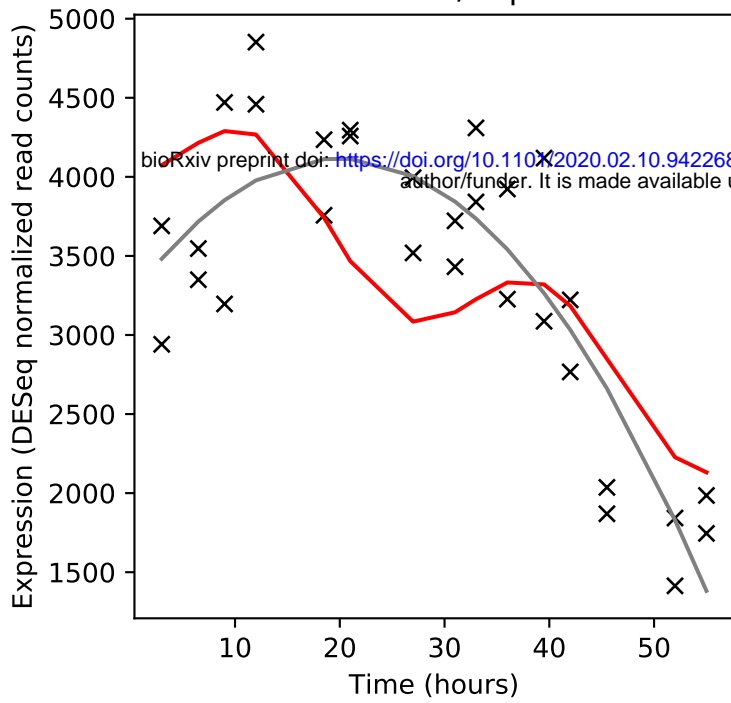
Rv2984/ppk1



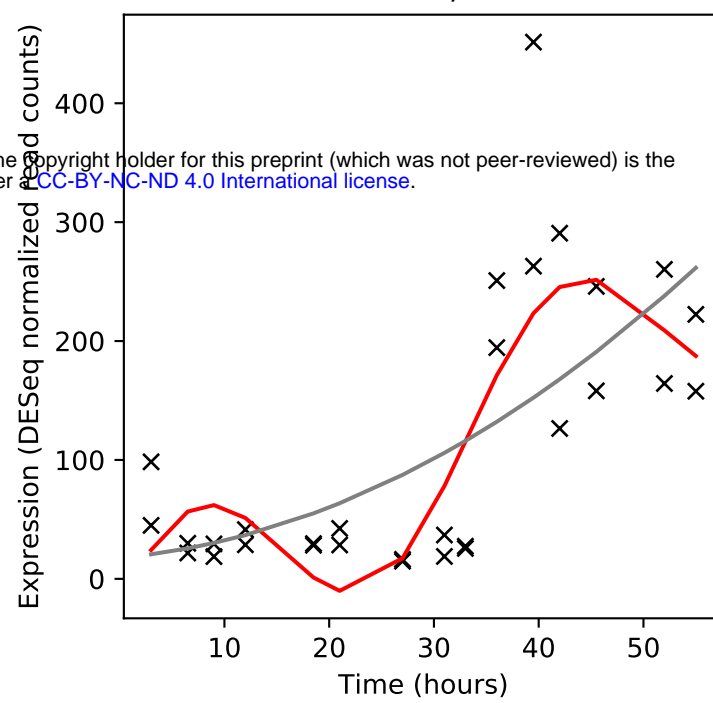
Rv2985/mutT1



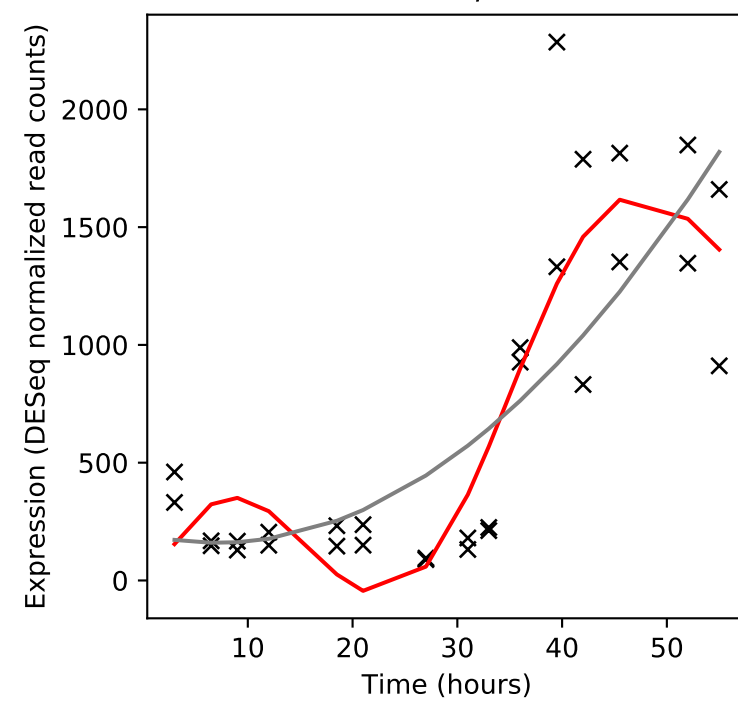
Rv2986c/hupB



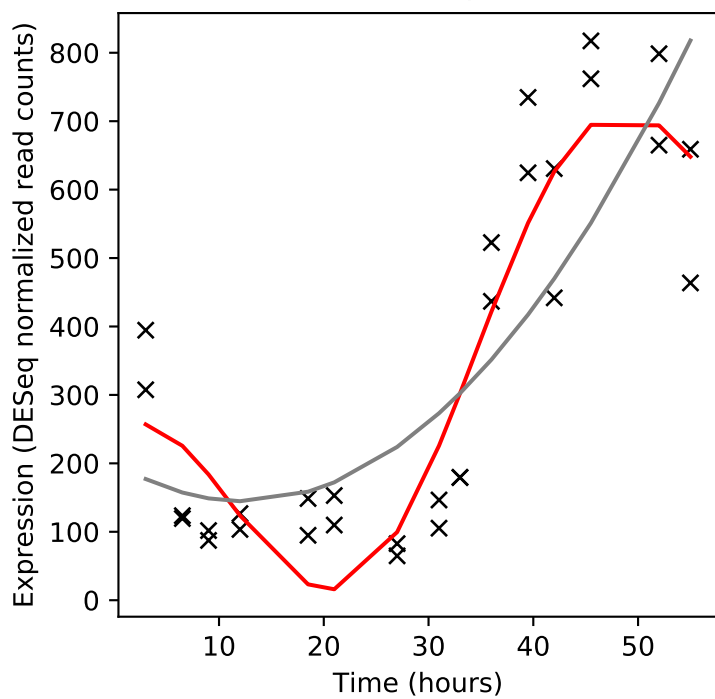
Rv2987c/leuD



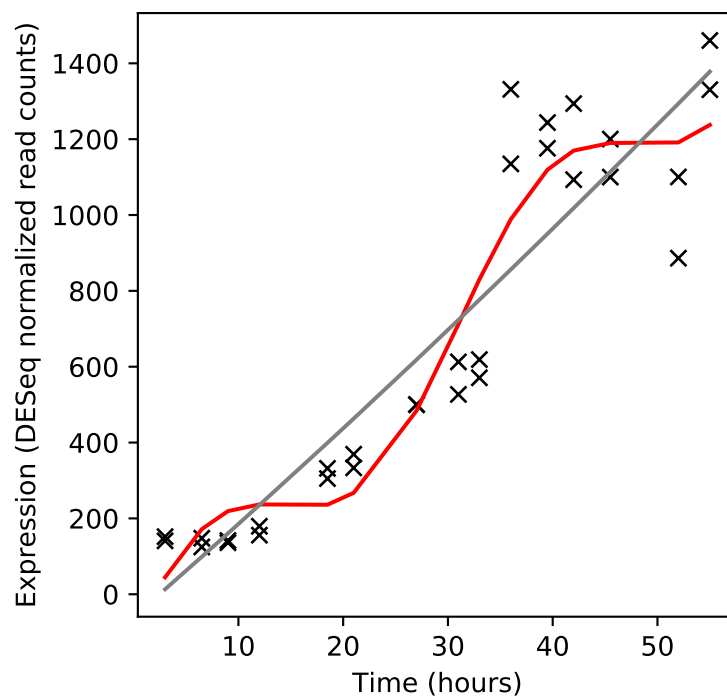
Rv2988c/leuC



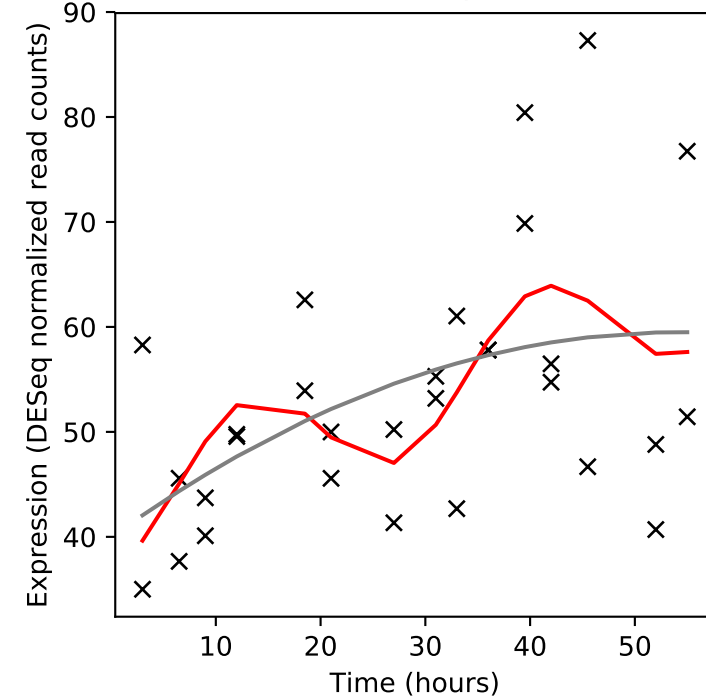
Rv2989/-



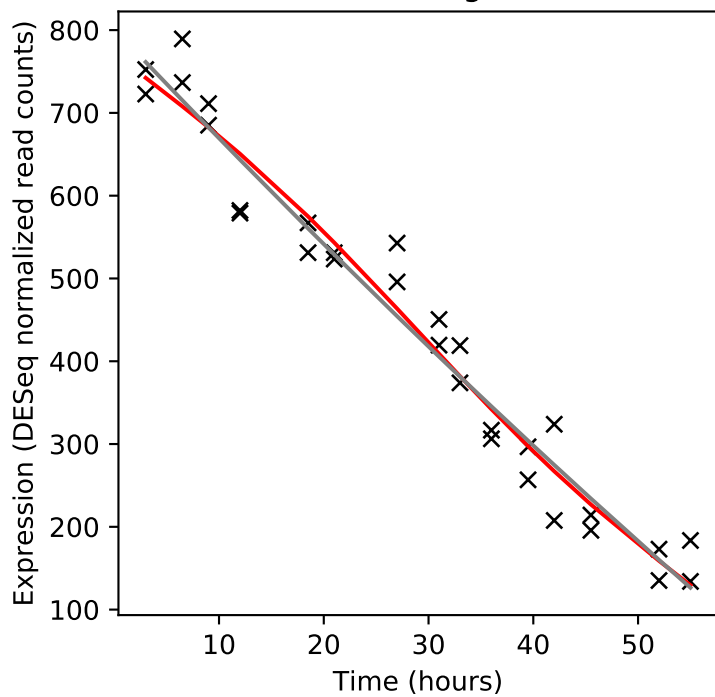
Rv2990c/-



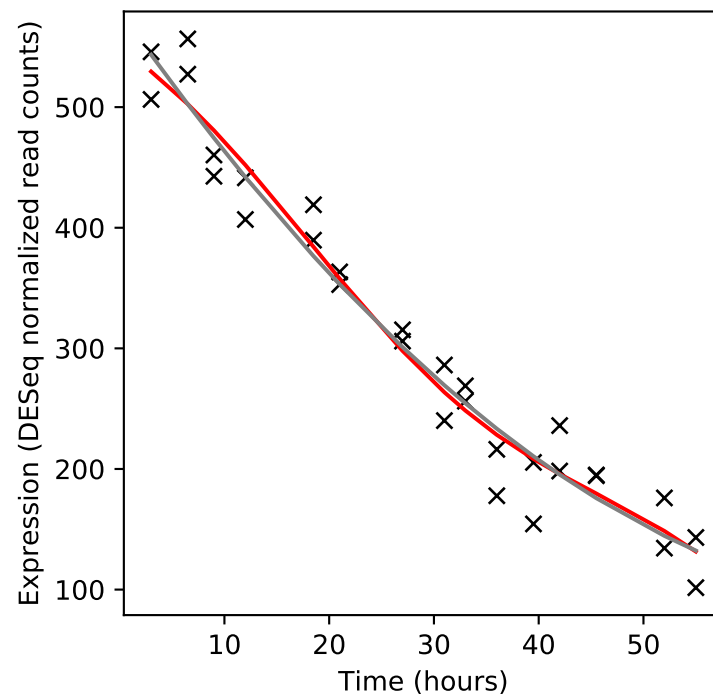
Rv2991/-



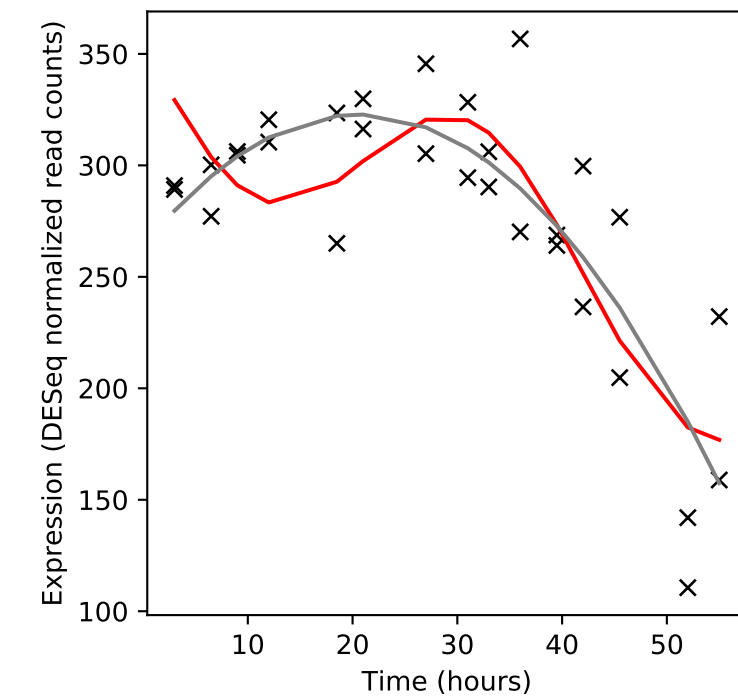
Rv2992c/gltS



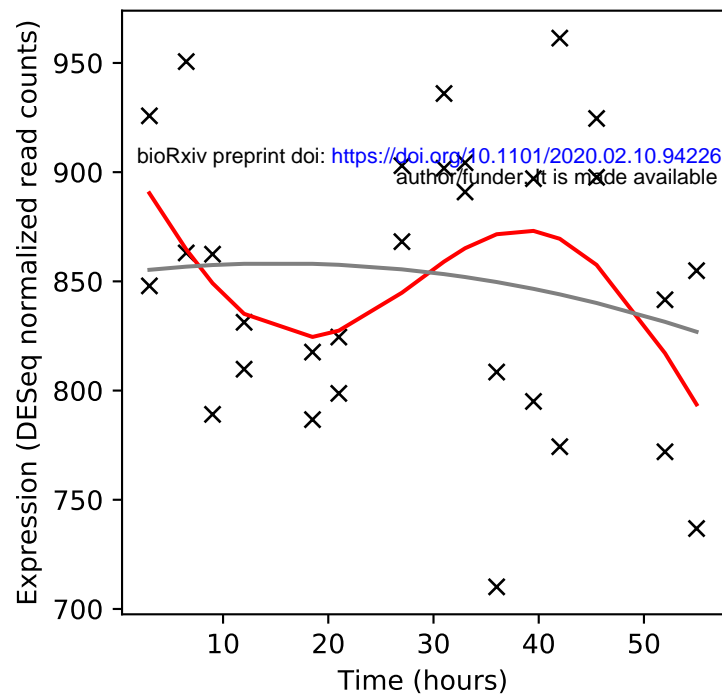
Rv2993c/-



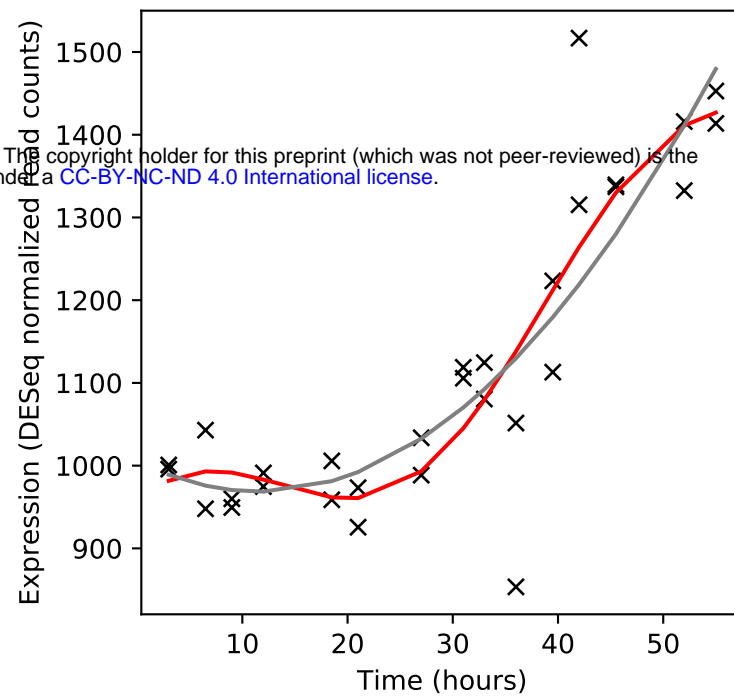
Rv2994/-



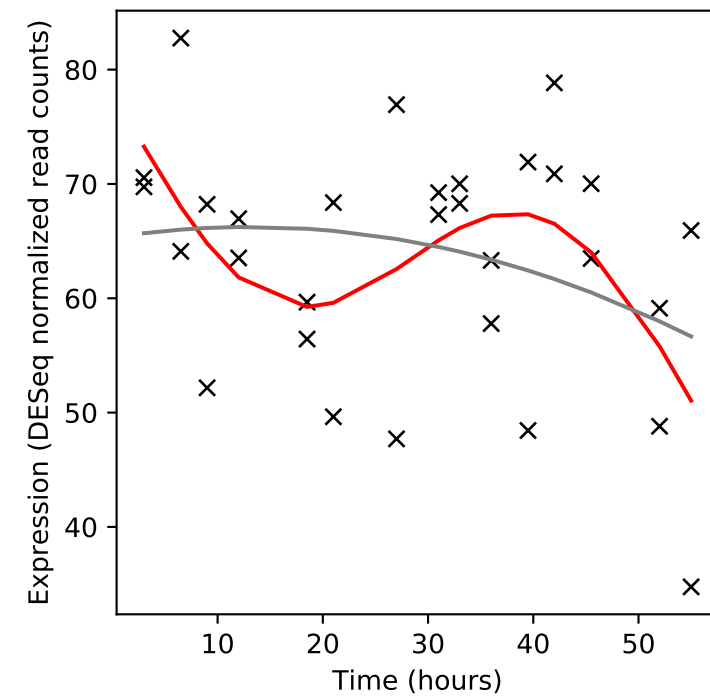
Rv2995c/leuB



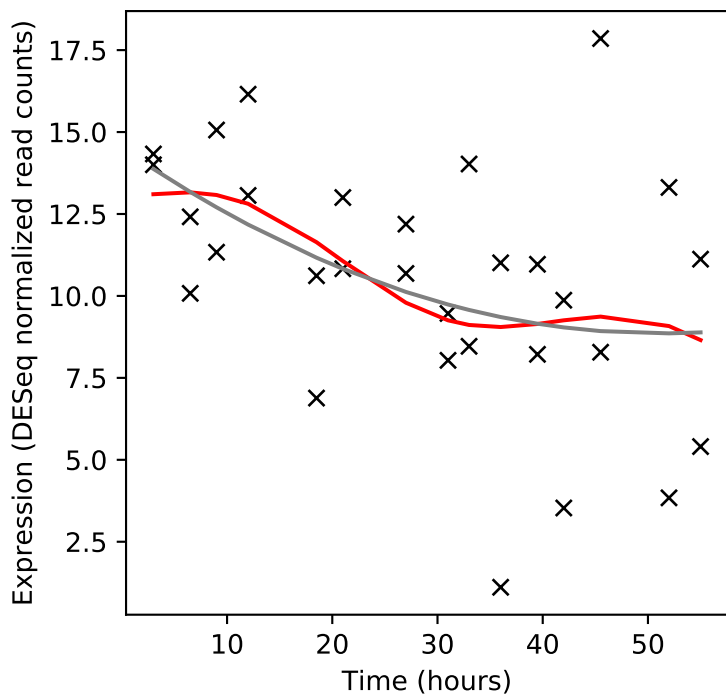
Rv2996c/serA1



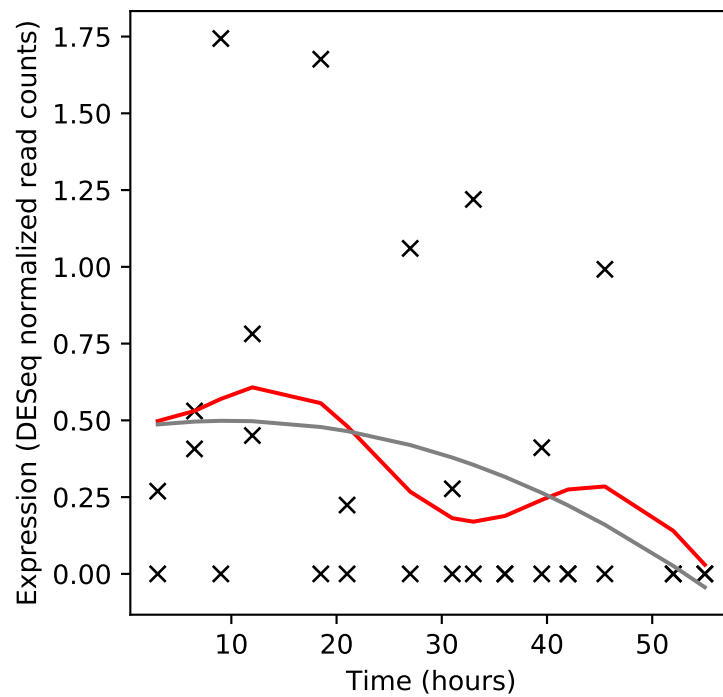
Rv2997/-



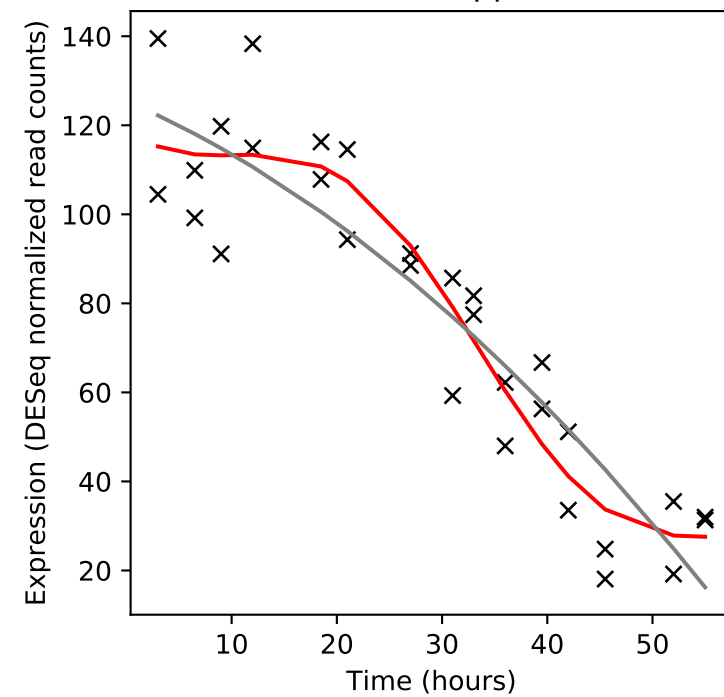
Rv2998/-



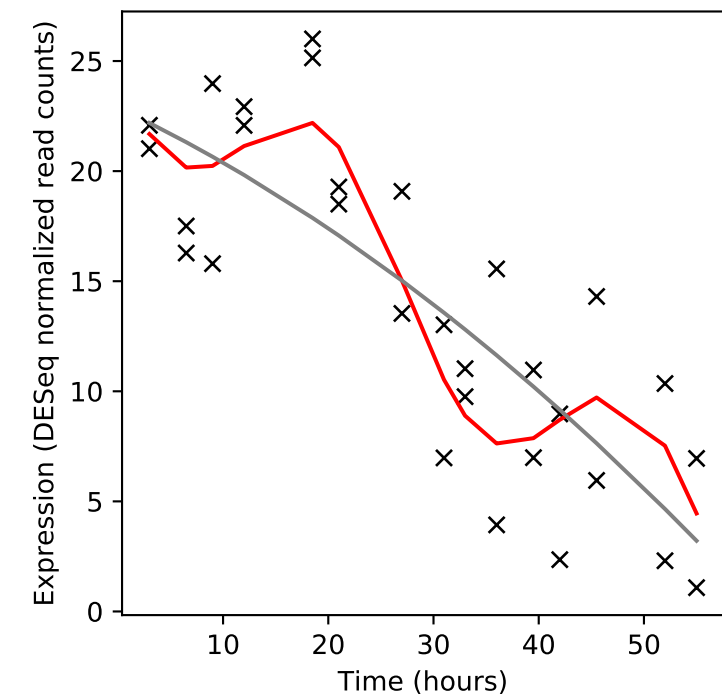
Rv2998A/-



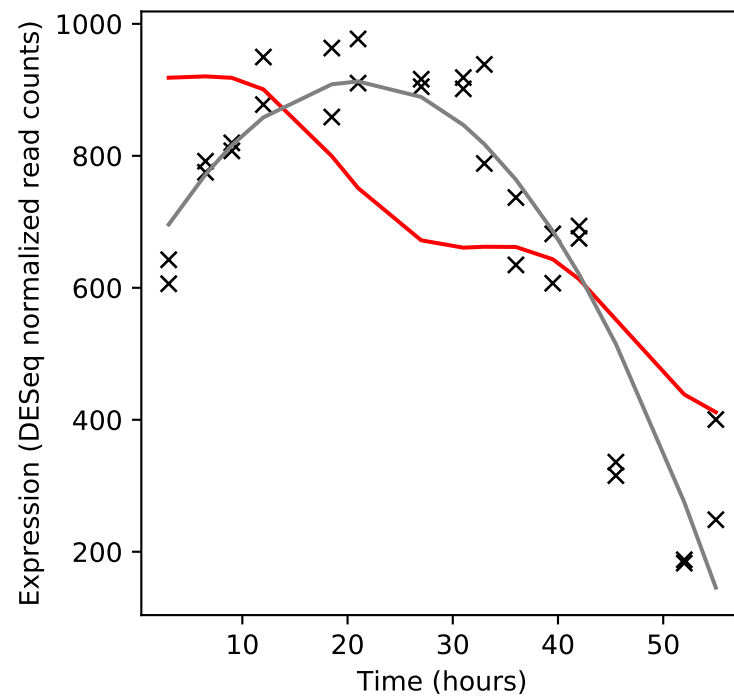
Rv2999/lppY



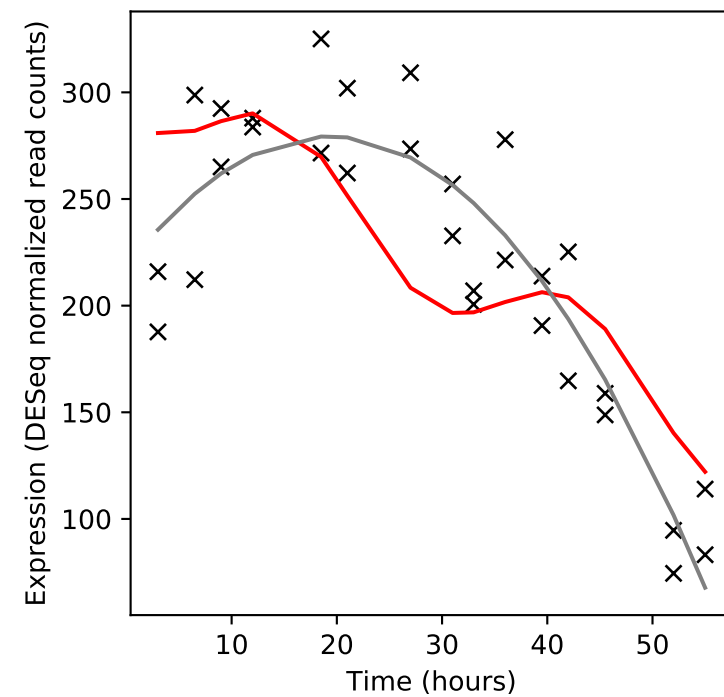
Rv3000/-



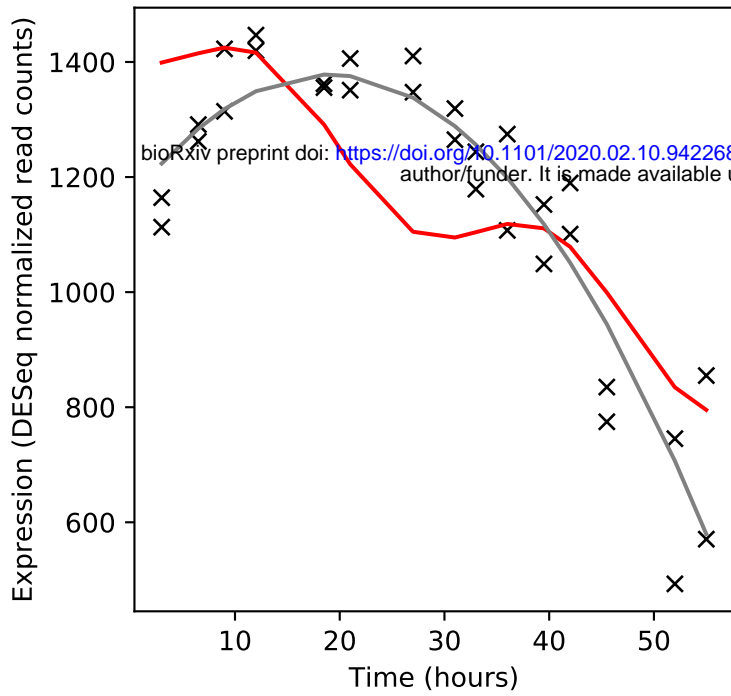
Rv3001c/ilvC



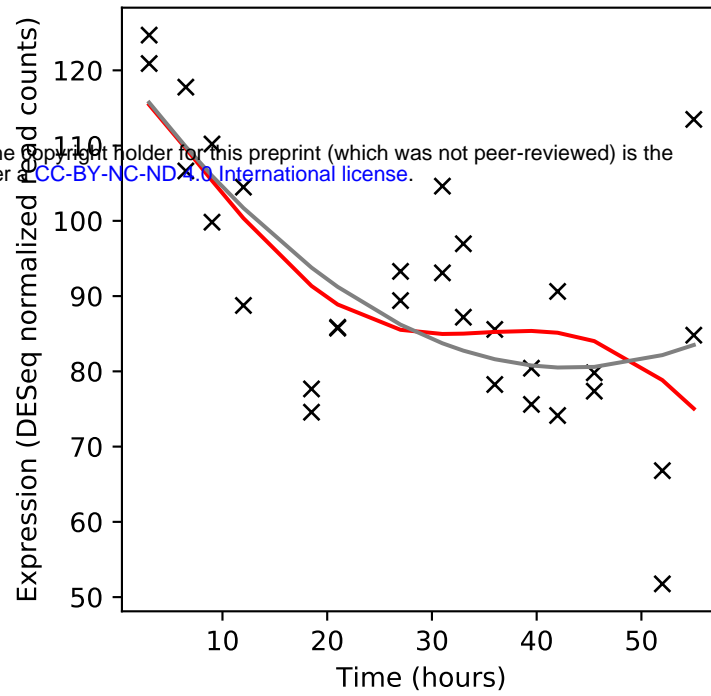
Rv3002c/ilvN



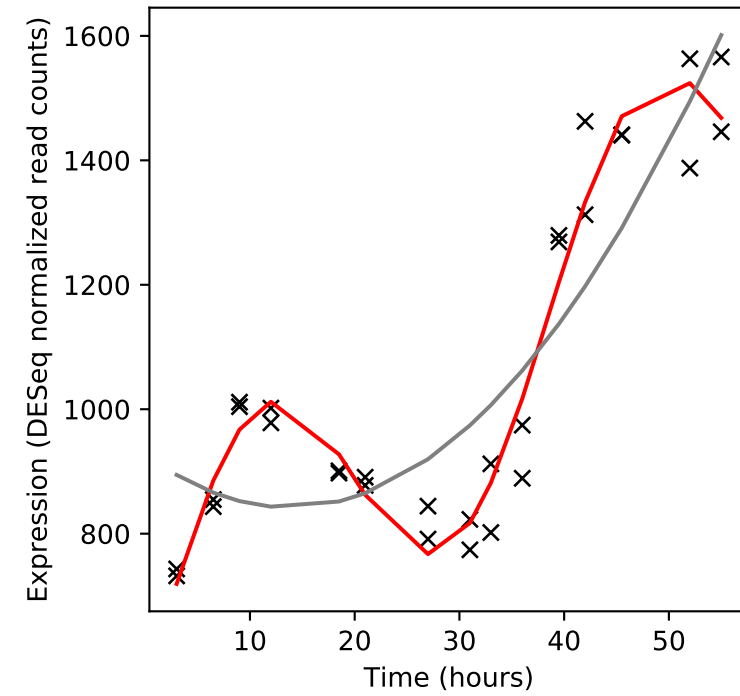
Rv3003c/ilvB1



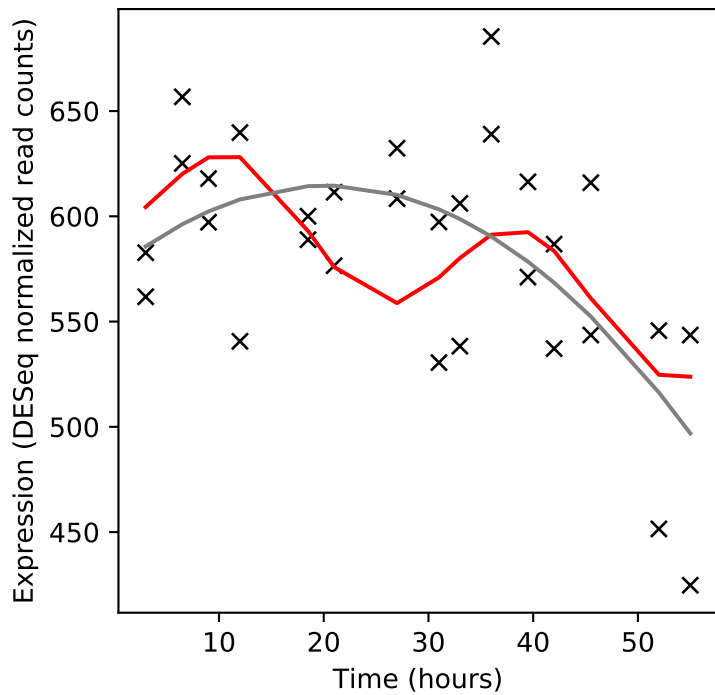
Rv3004/cfp6



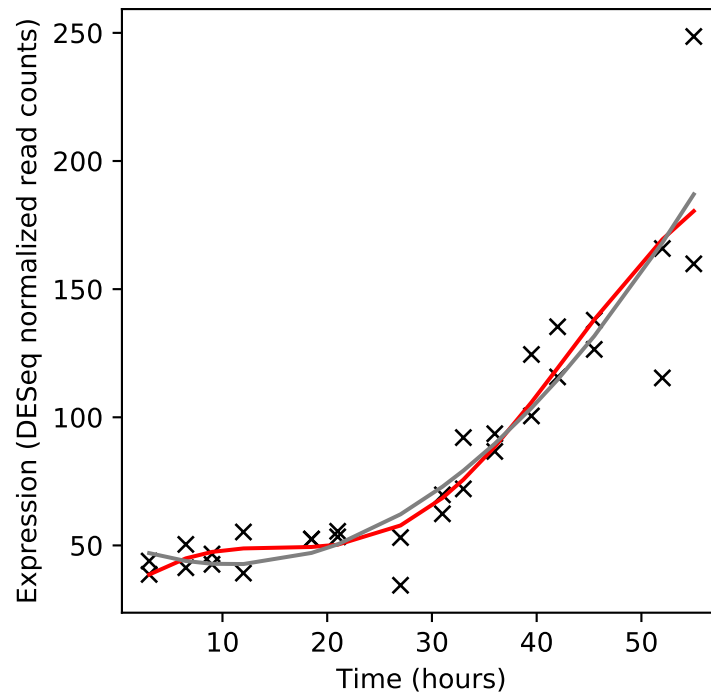
Rv3005c/-



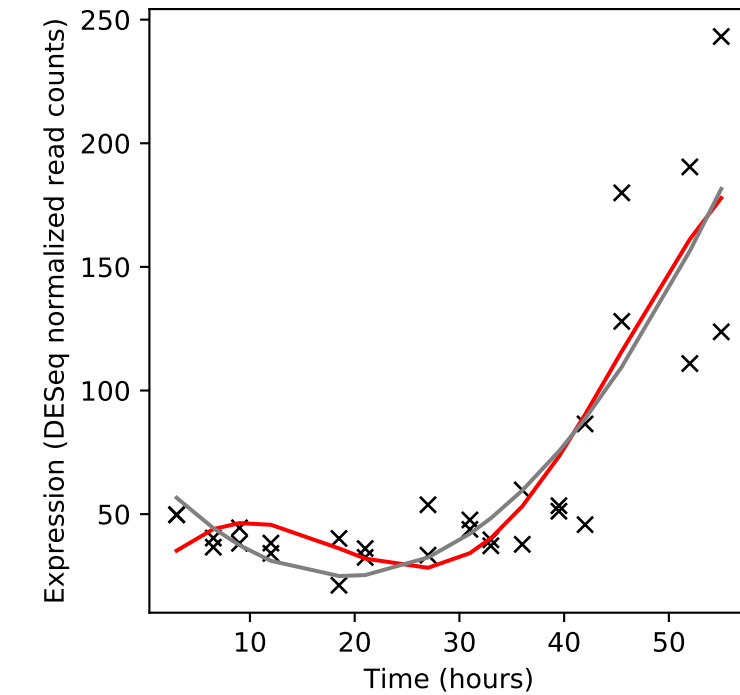
Rv3006/lppZ



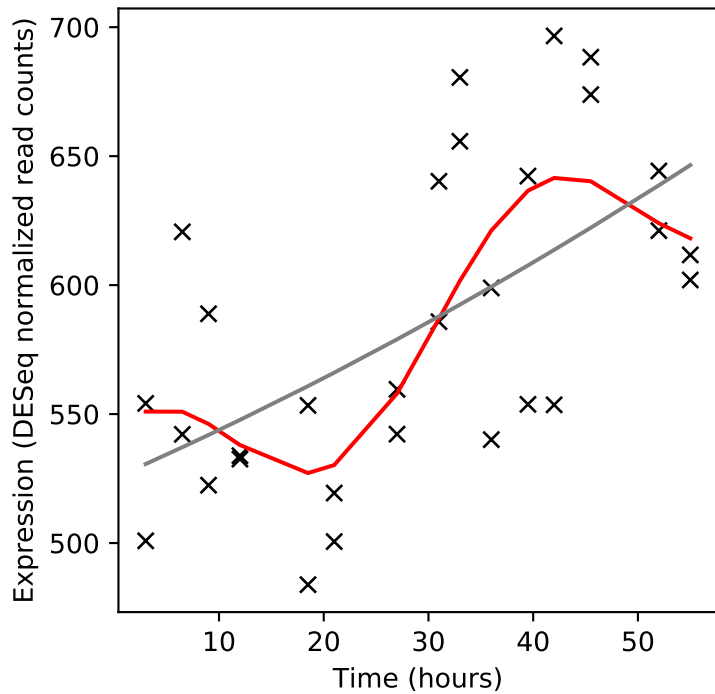
Rv3007c/-



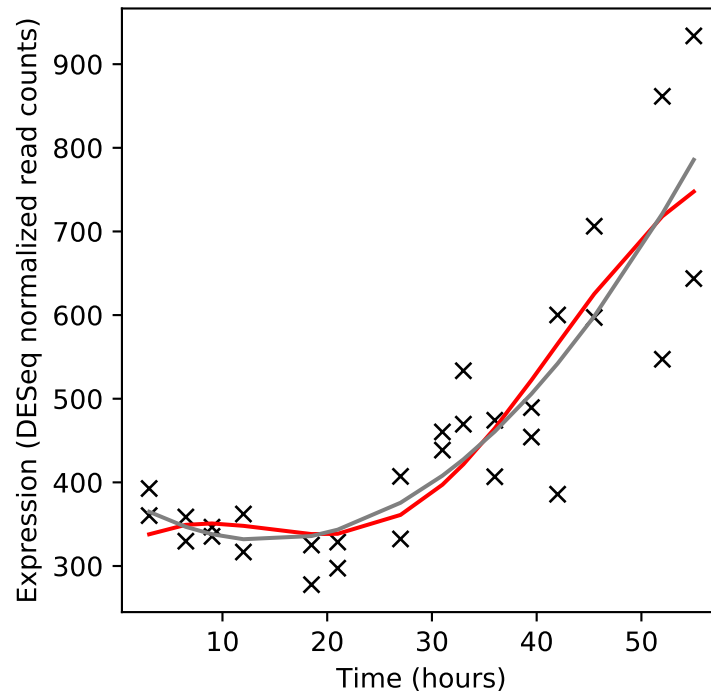
Rv3008/-



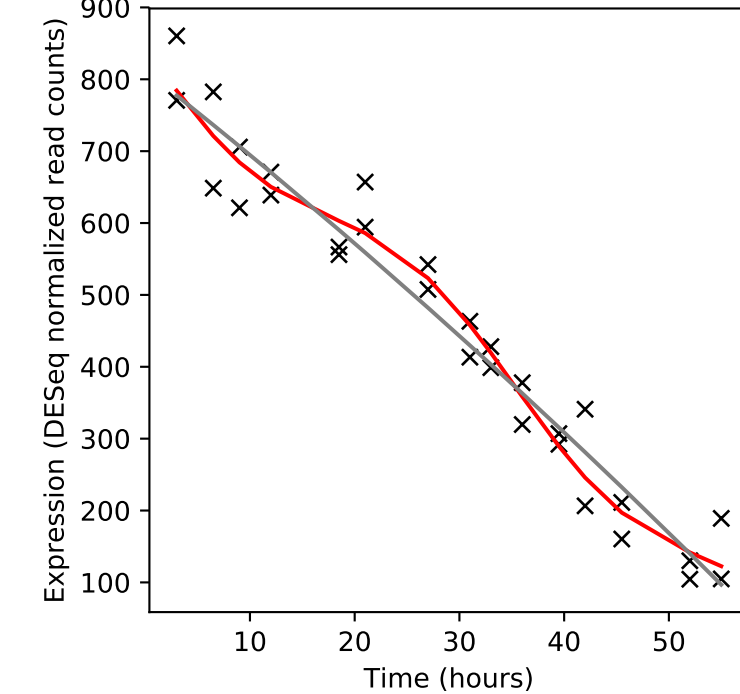
Rv3009c/gatB



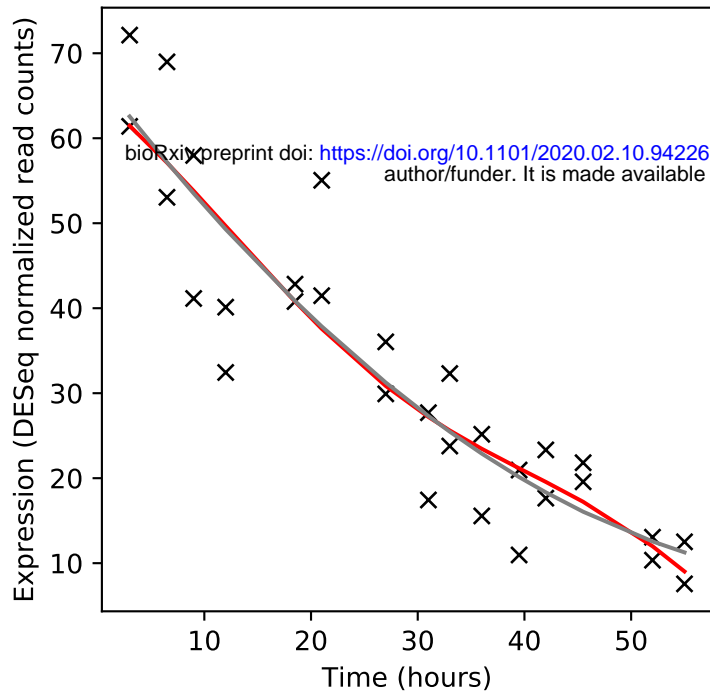
Rv3010c/pfkA



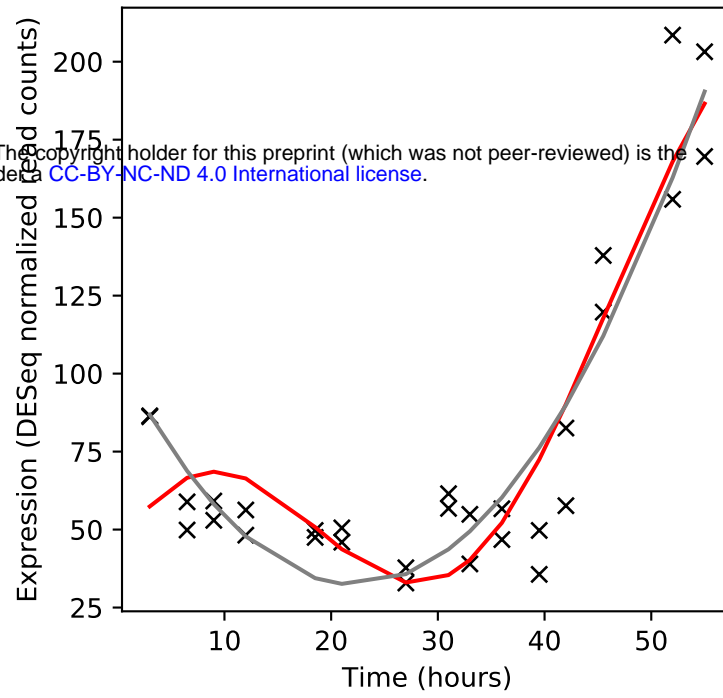
Rv3011c/gatA



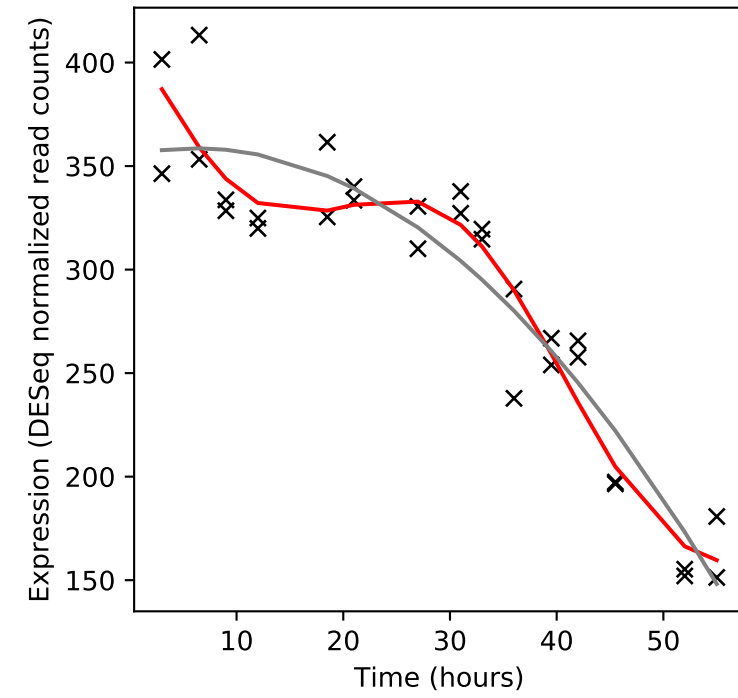
Rv3012c/gatC



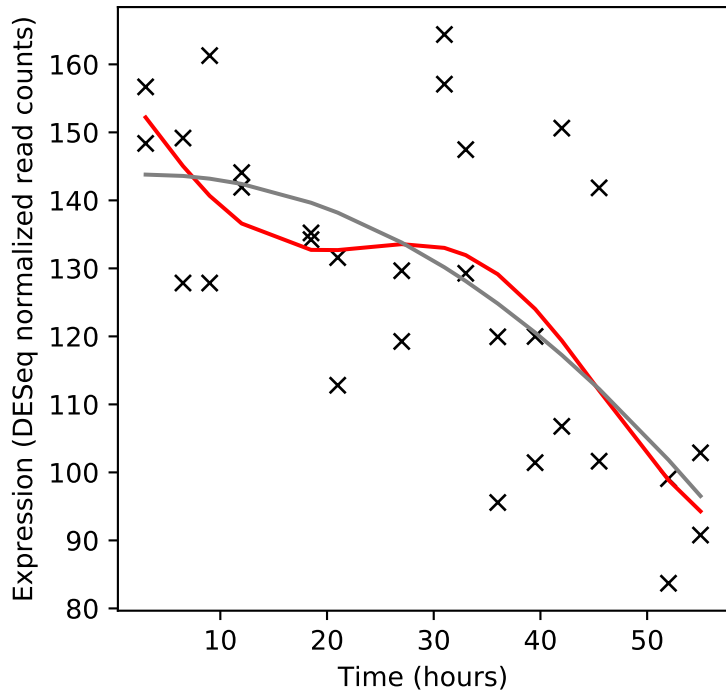
Rv3013/-



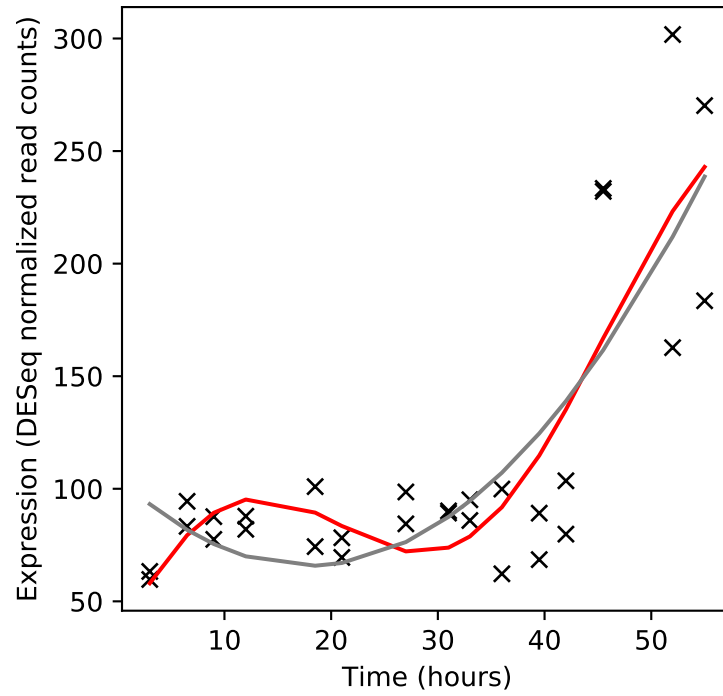
Rv3014c/ligA



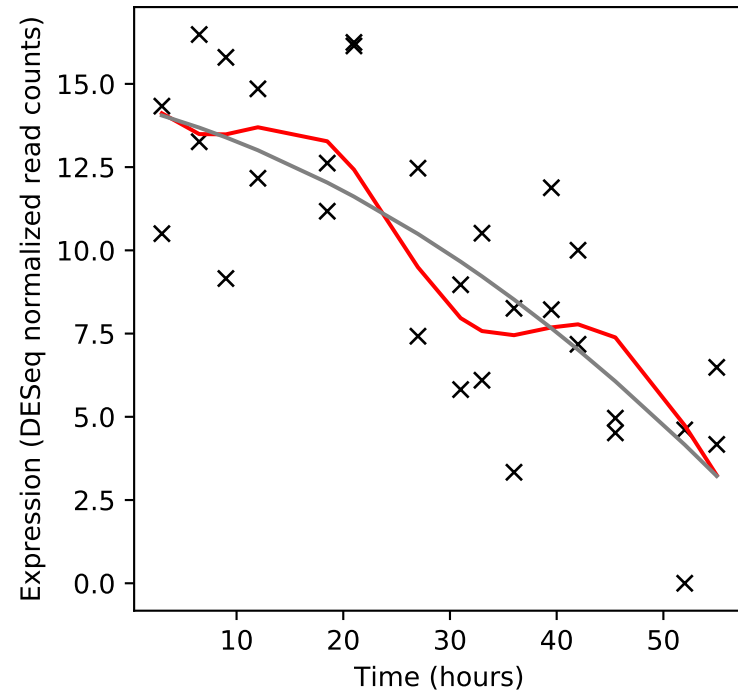
Rv3015c/-



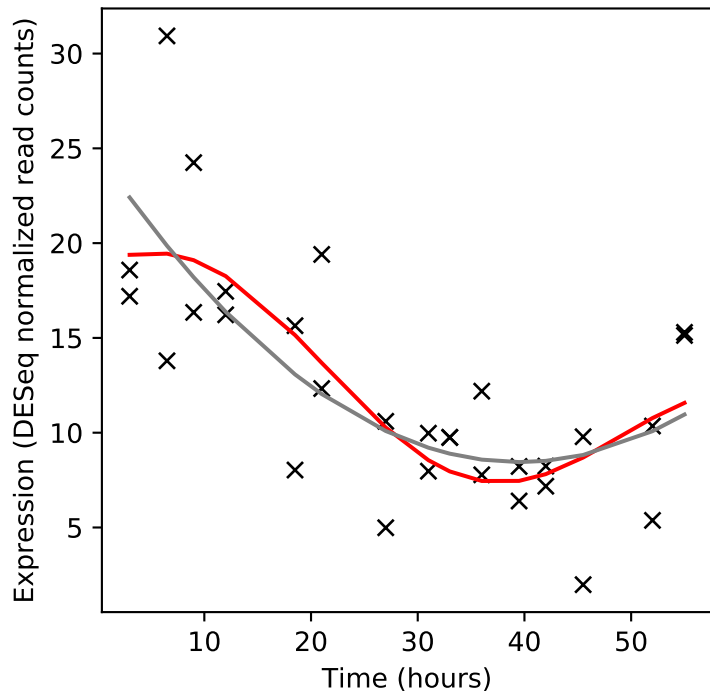
Rv3016/lpqA



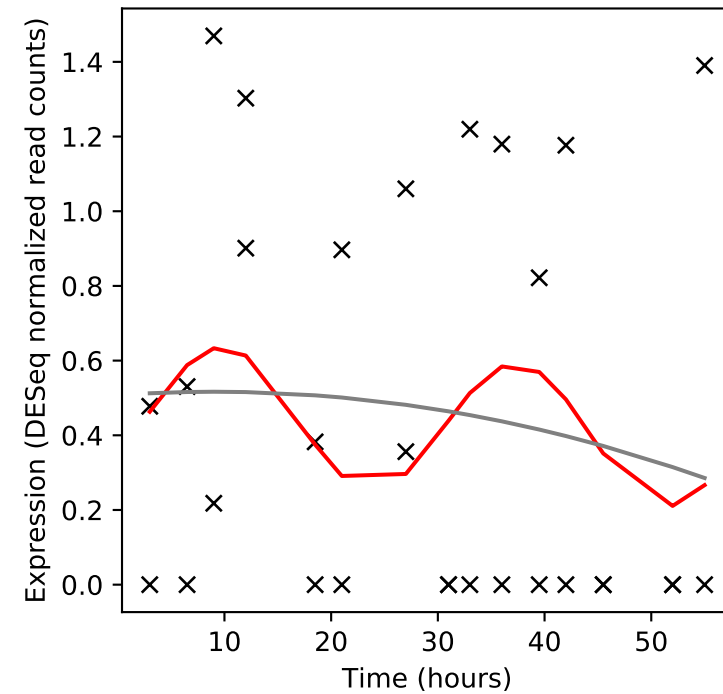
Rv3017c/esxQ



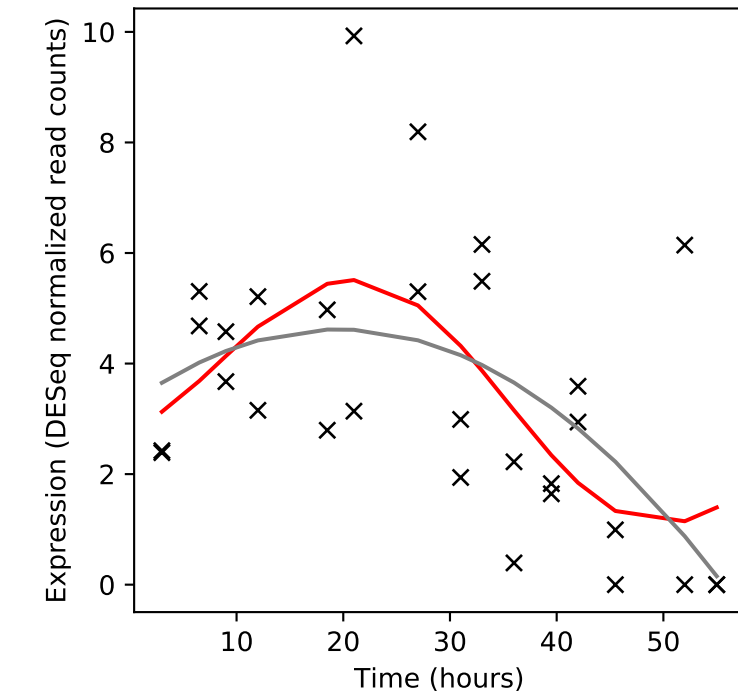
Rv3018c/PPE46



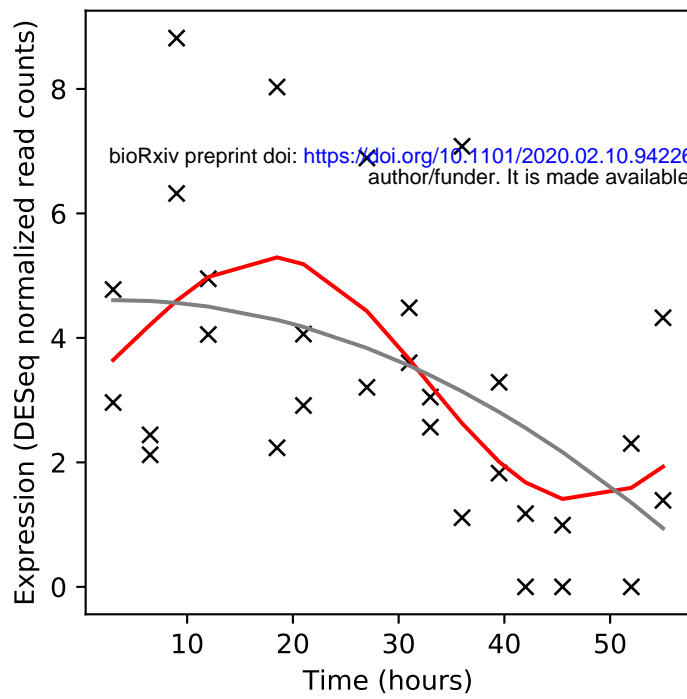
Rv3018A/PE27A



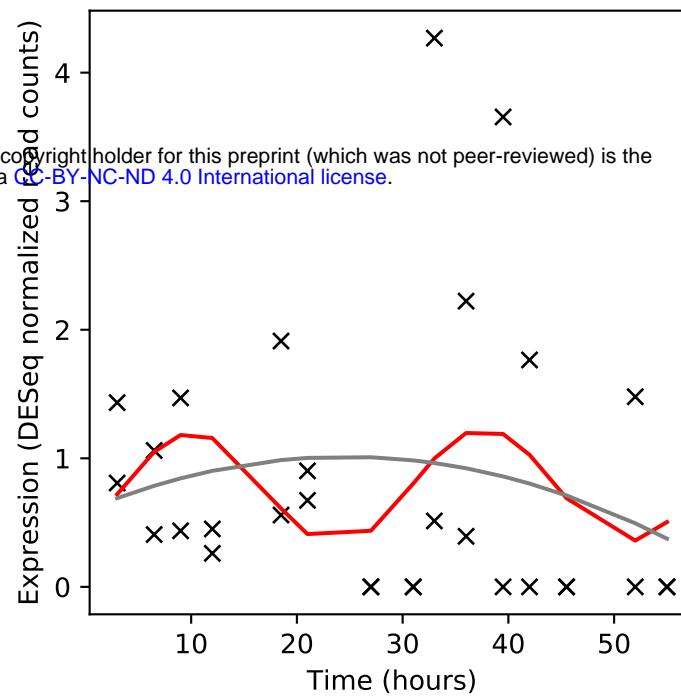
Rv3019c/esxR



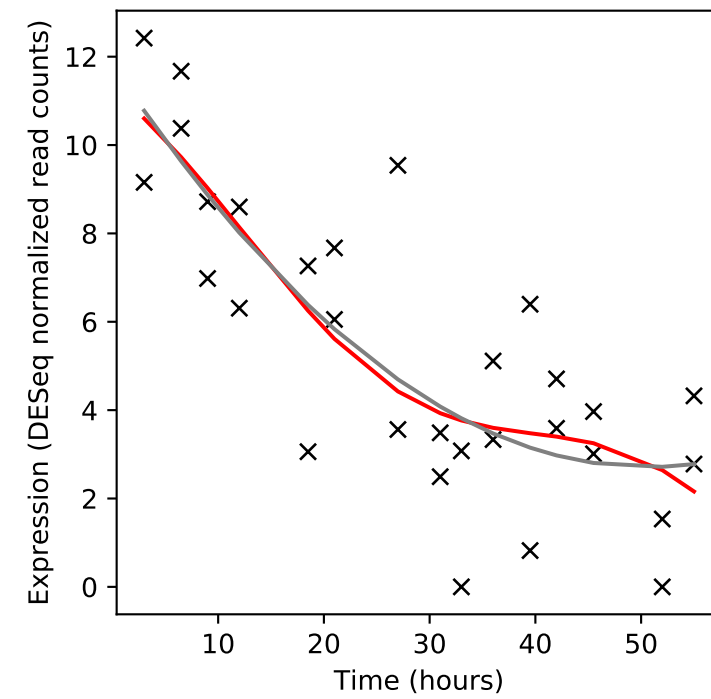
Rv3020c/esxS



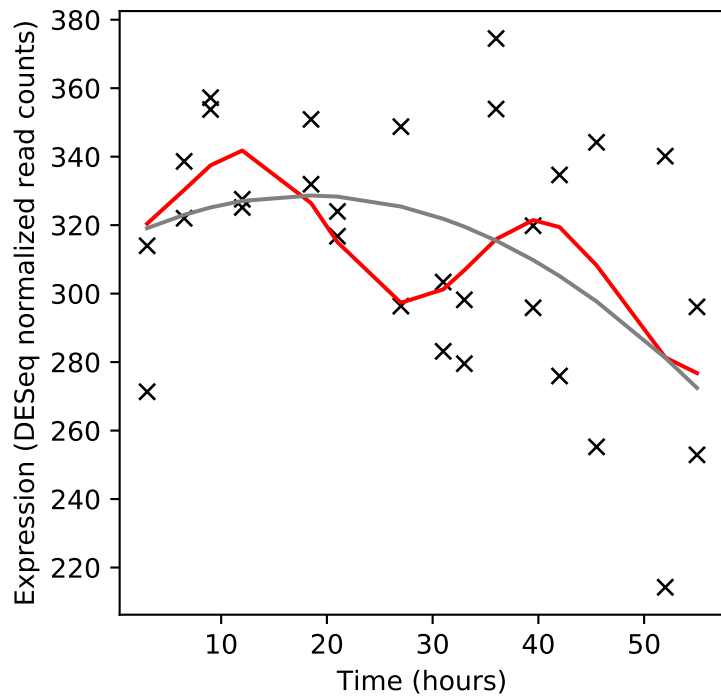
Rv3022A/PE29



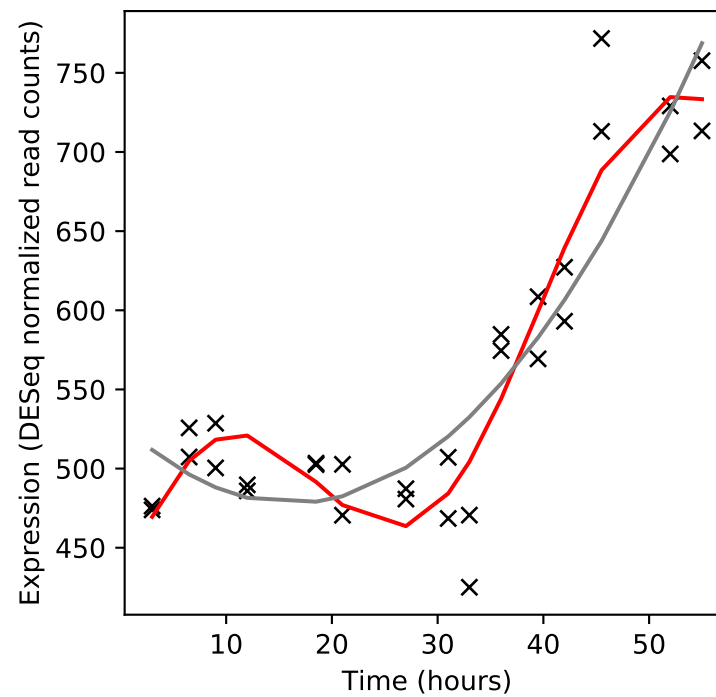
Rv3023c/-



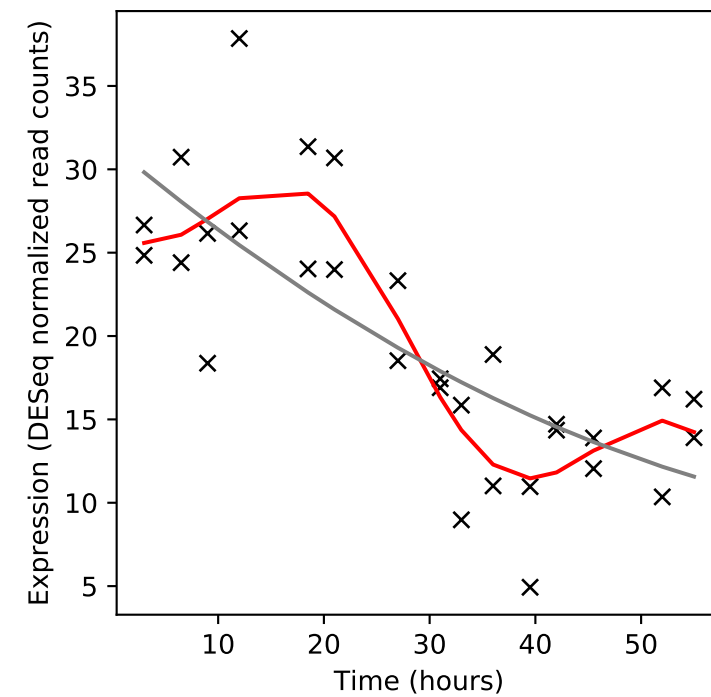
Rv3024c/trmU



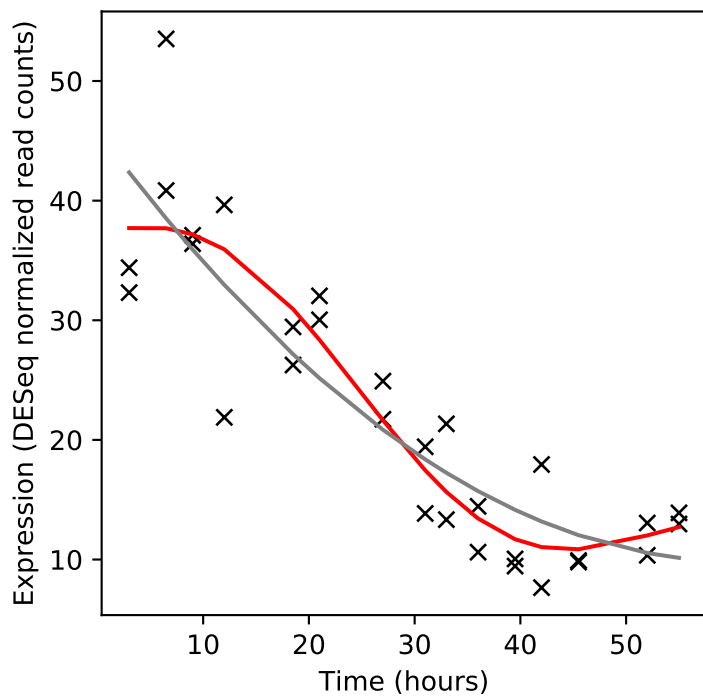
Rv3025c/iscS



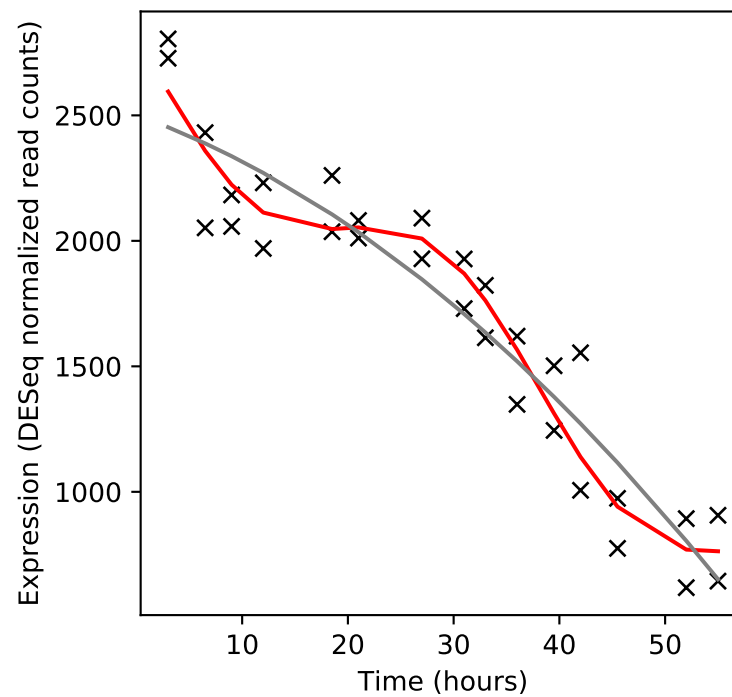
Rv3026c/-



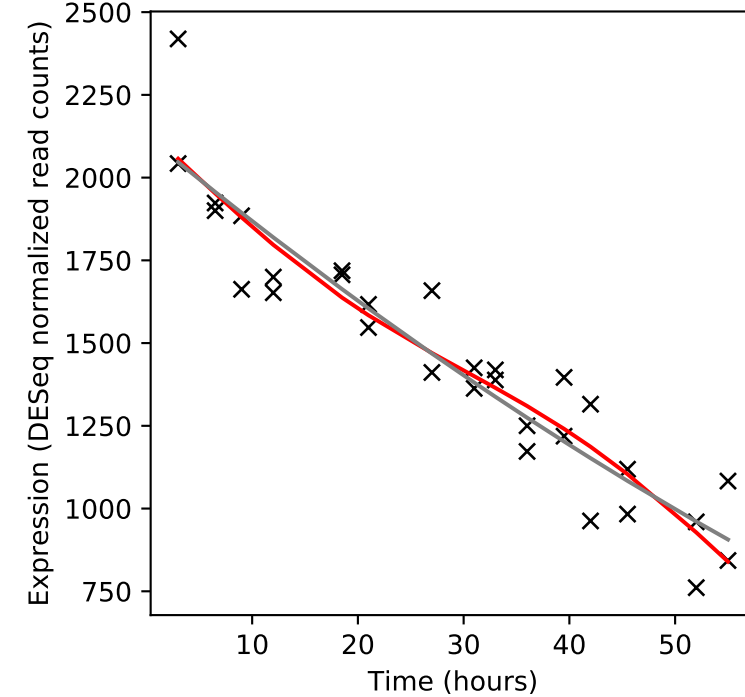
Rv3027c/-



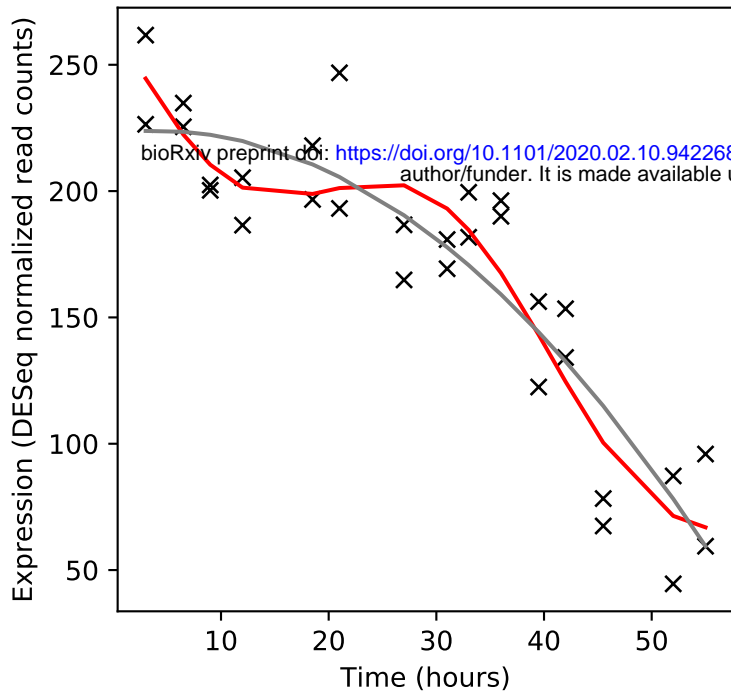
Rv3028c/fixB



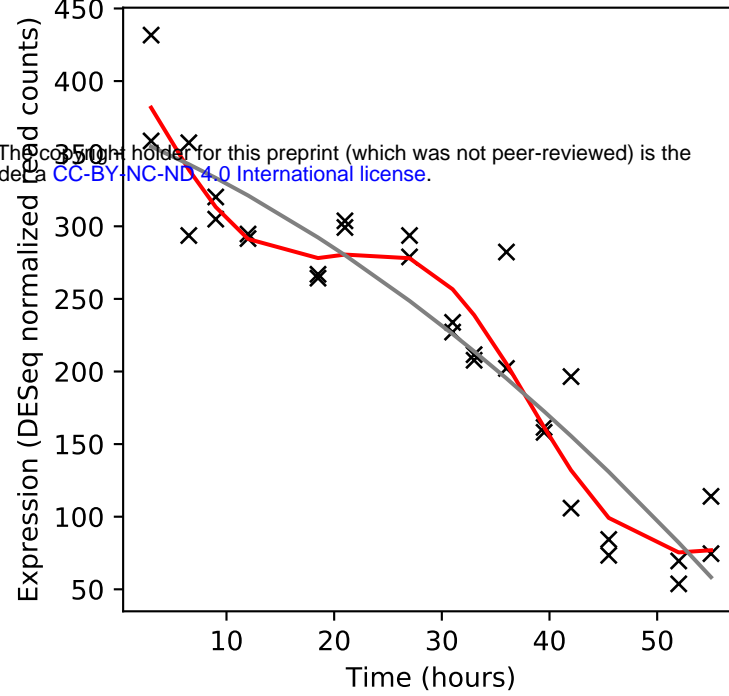
Rv3029c/fixA



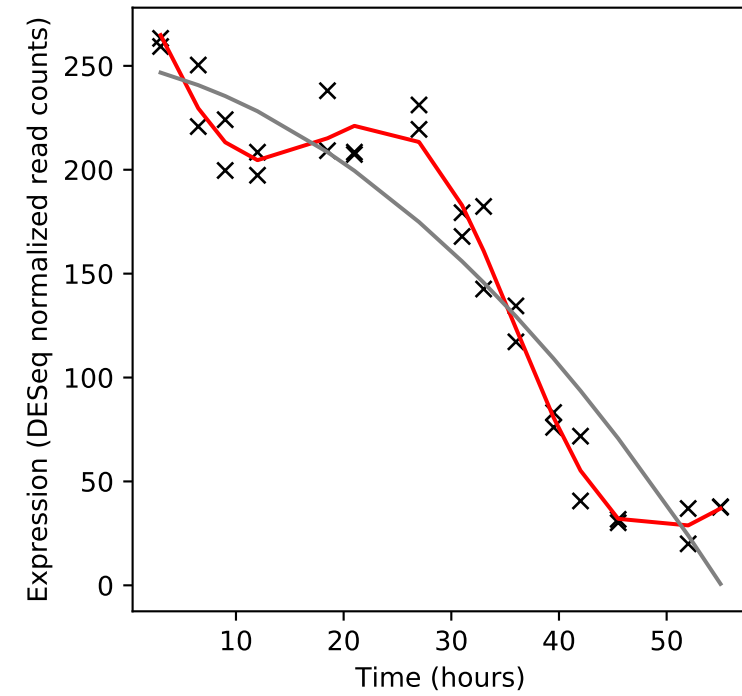
Rv3030/-



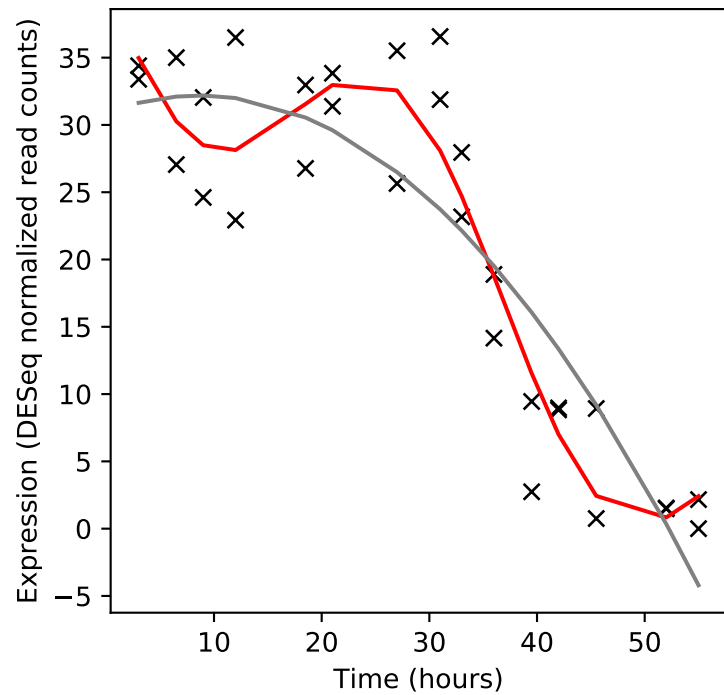
Rv3031/-



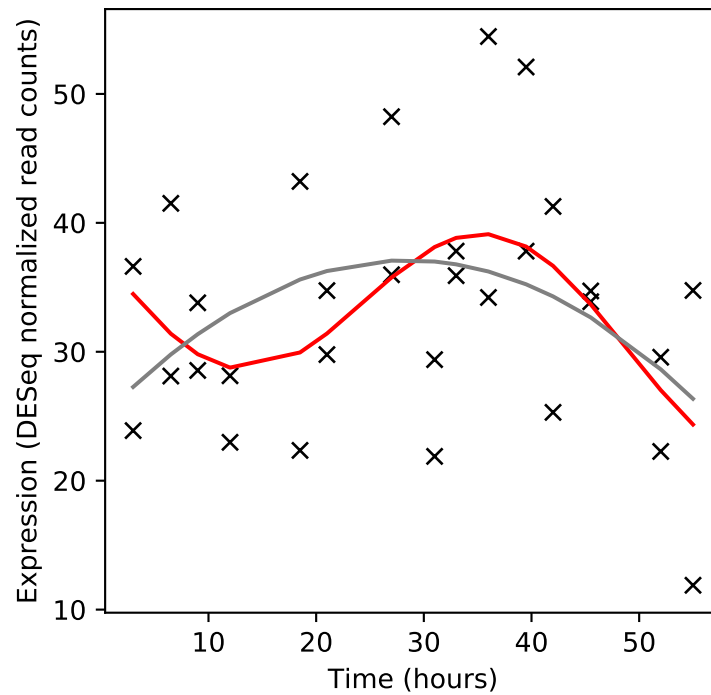
Rv3032/-



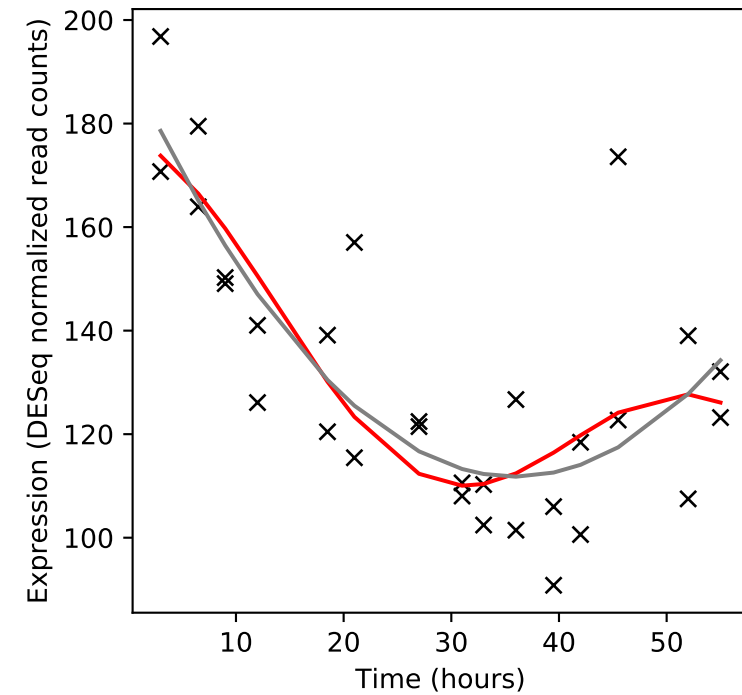
Rv3032A/-



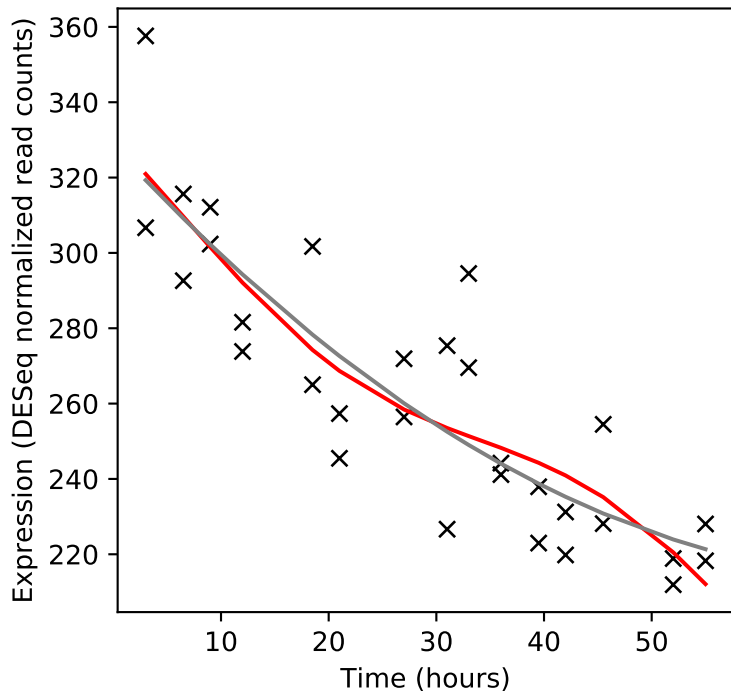
Rv3033/-



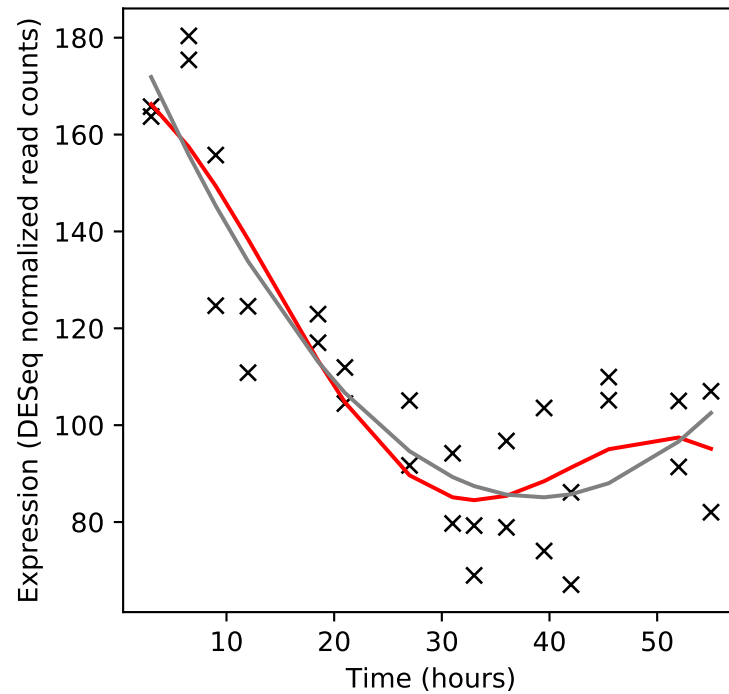
Rv3034c/-



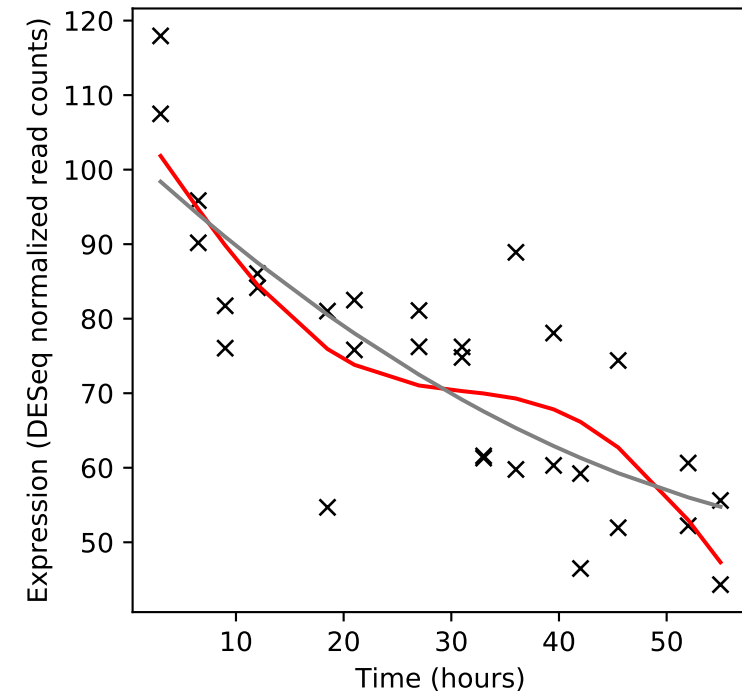
Rv3035/-



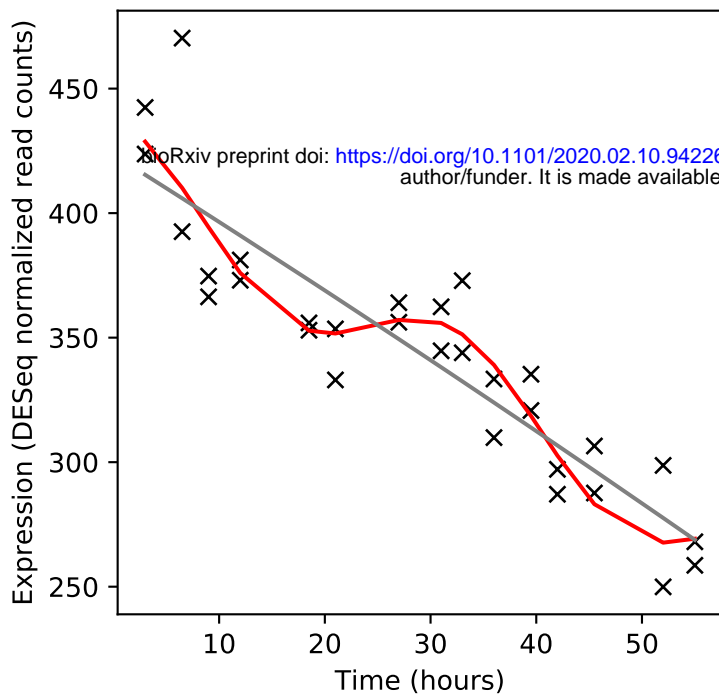
Rv3036c/TB22.2



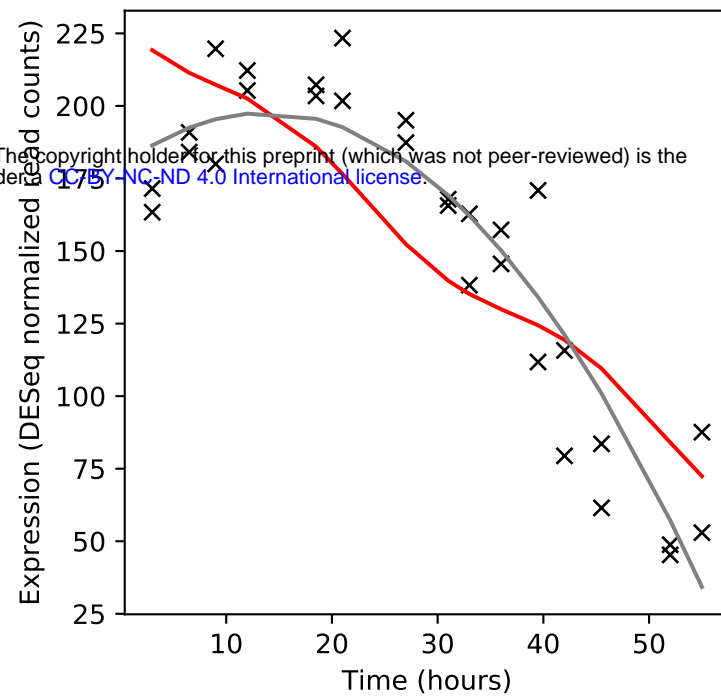
Rv3037c/-



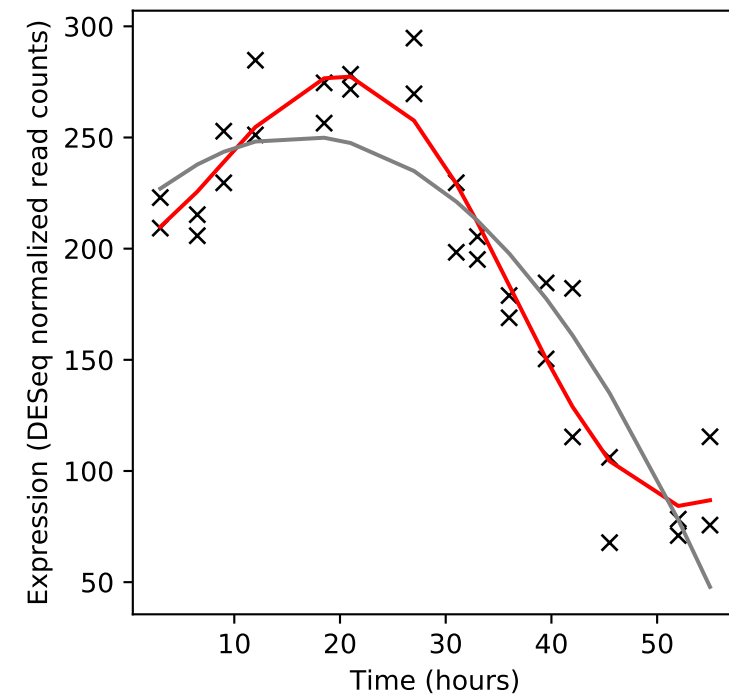
Rv3038c/-



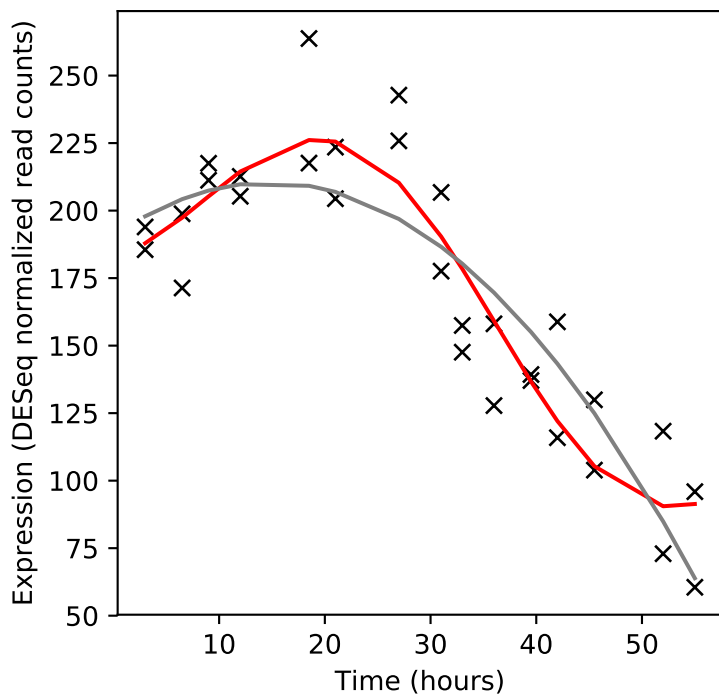
Rv3039c/echA17



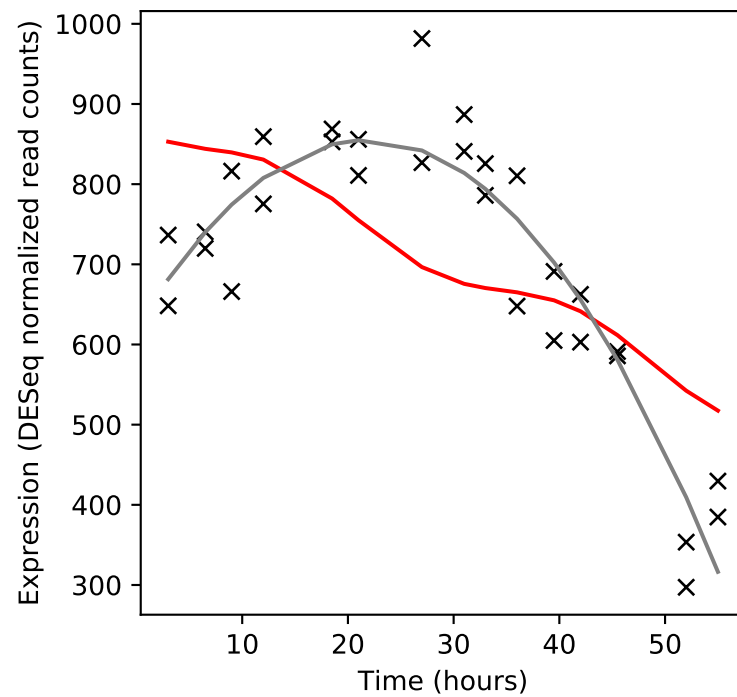
Rv3040c/-



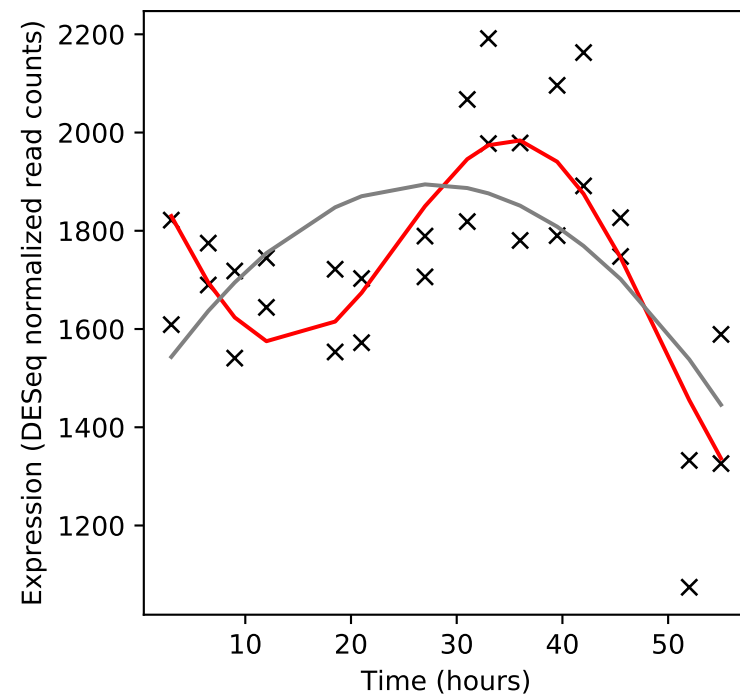
Rv3041c/-



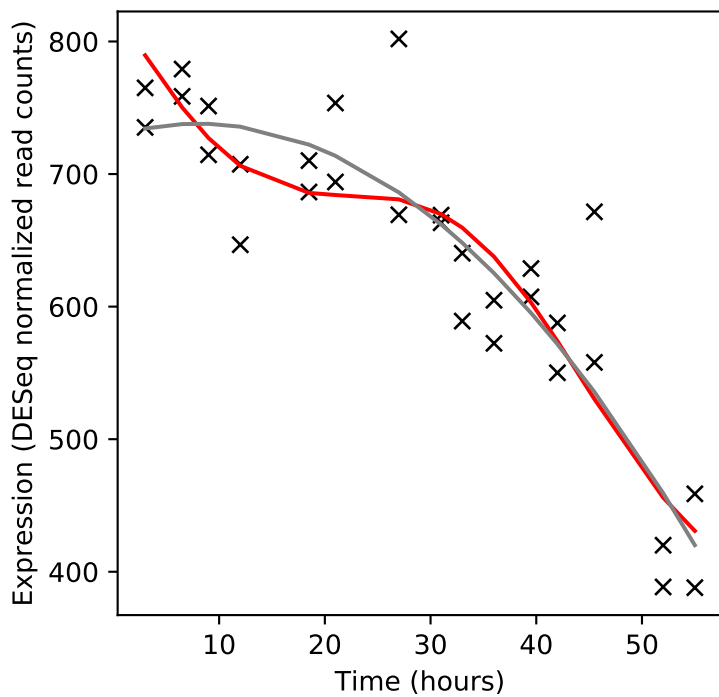
Rv3042c/serB2



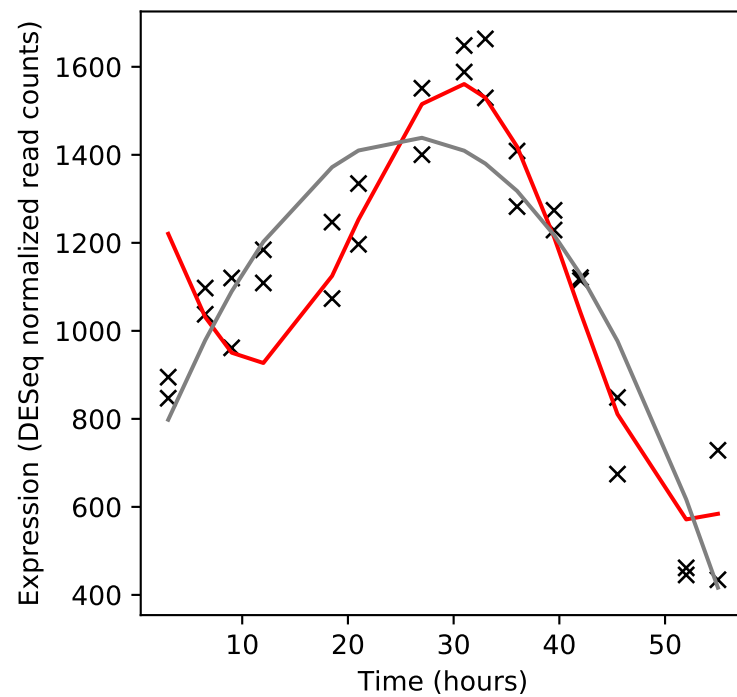
Rv3043c/ctaD



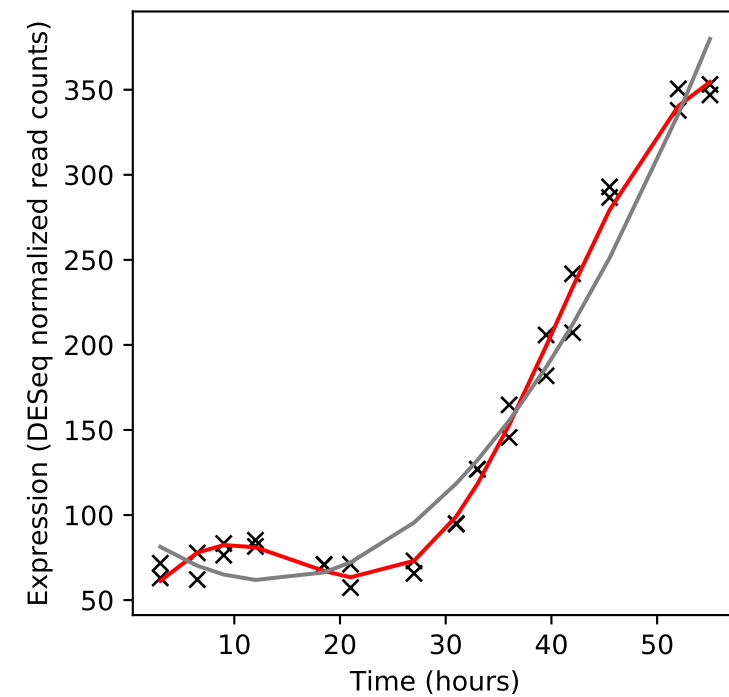
Rv3044/fecB



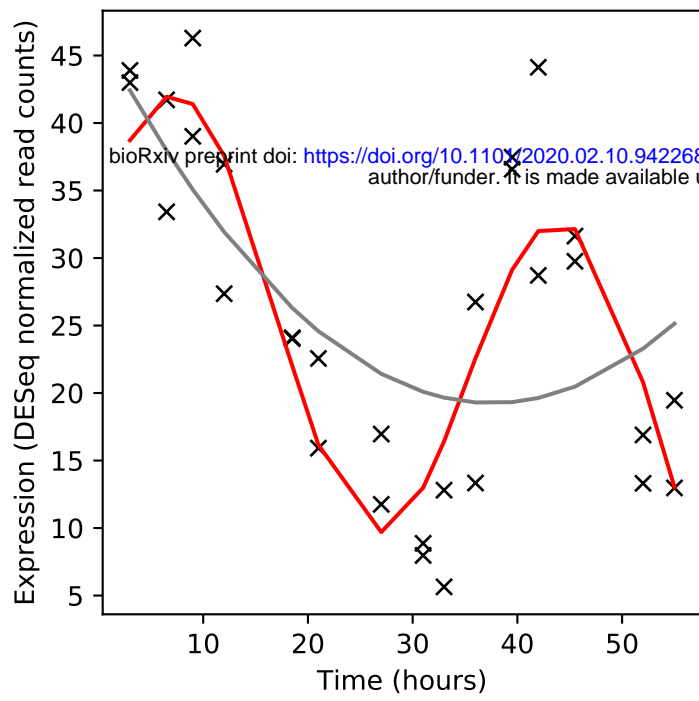
Rv3045/adhC



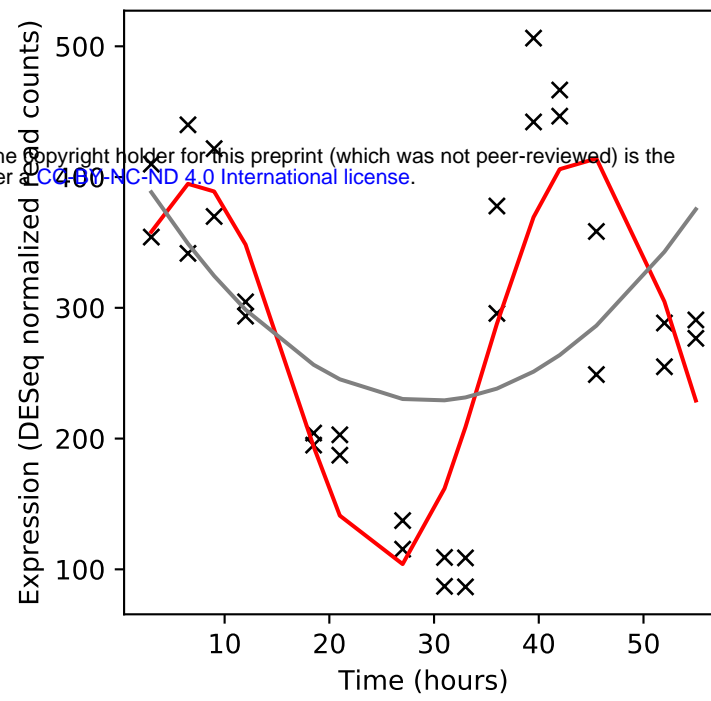
Rv3046c/-



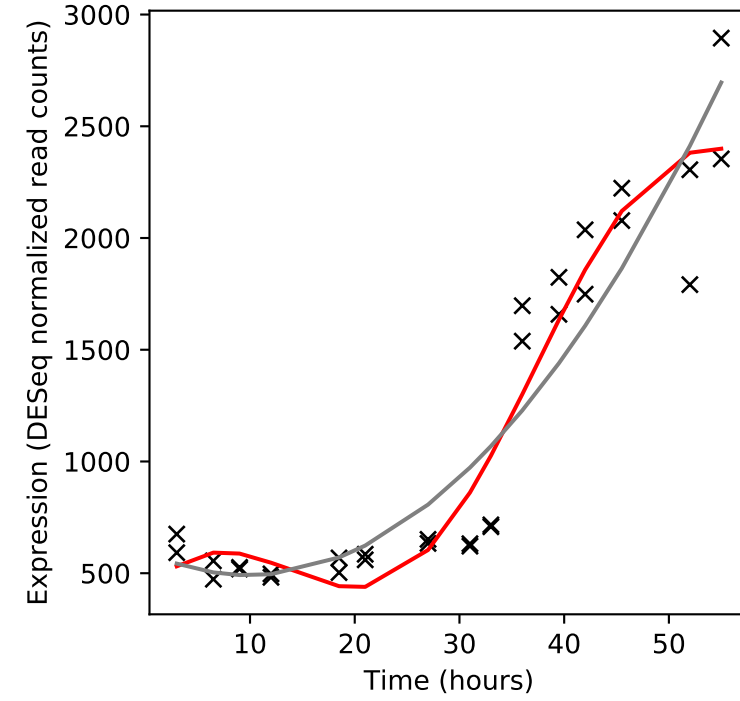
Rv3047c/-



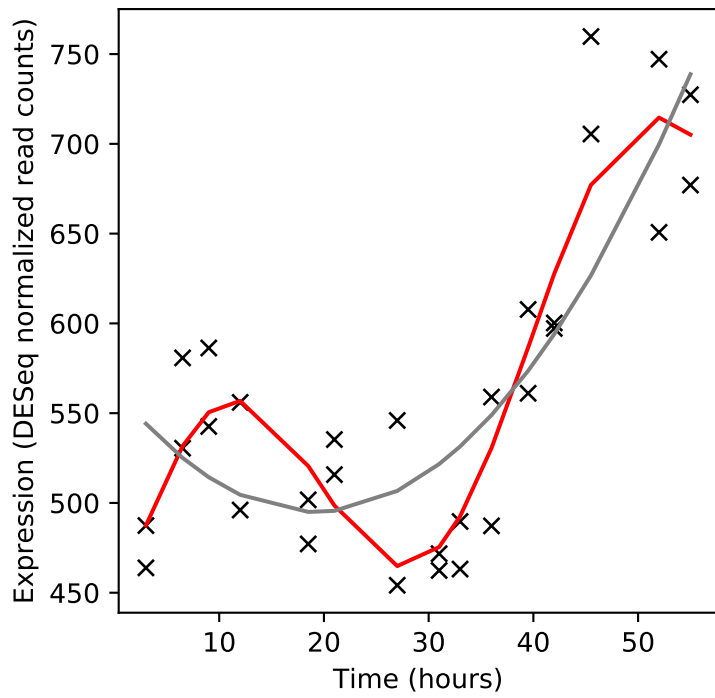
Rv3048c/nrdF2



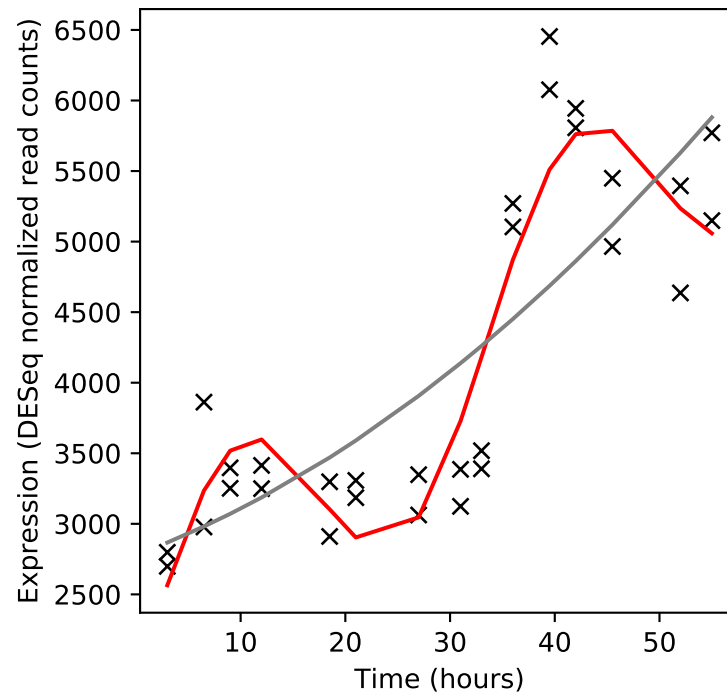
Rv3049c/-



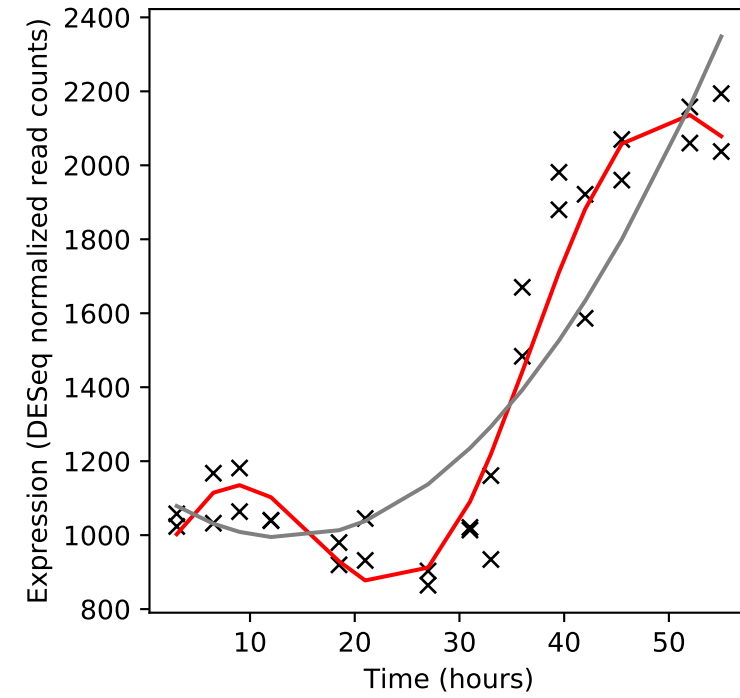
Rv3050c/-



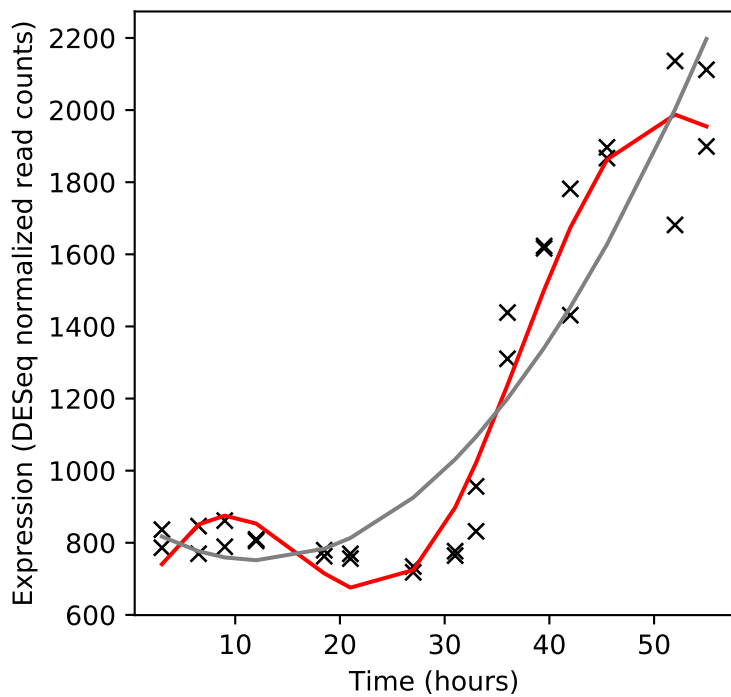
Rv3051c/nrdE



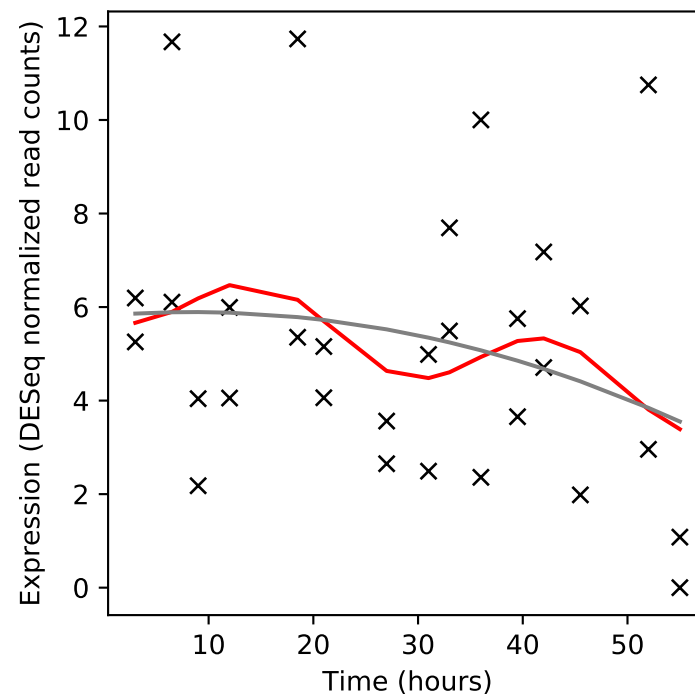
Rv3052c/nrdI



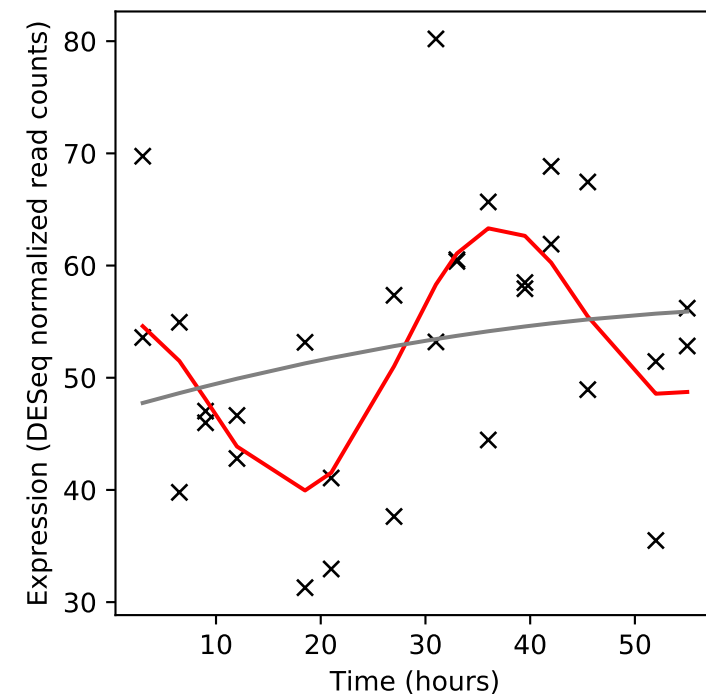
Rv3053c/nrdH



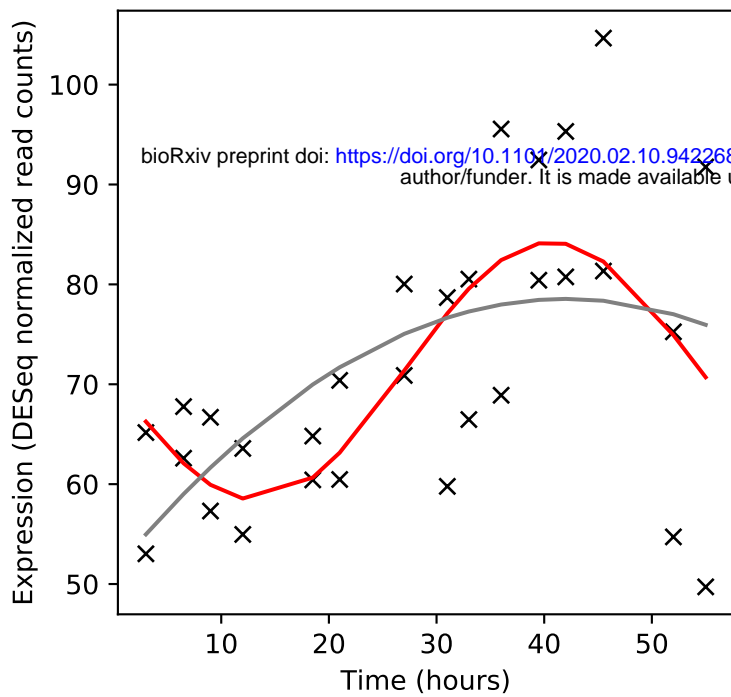
Rv3054c/-



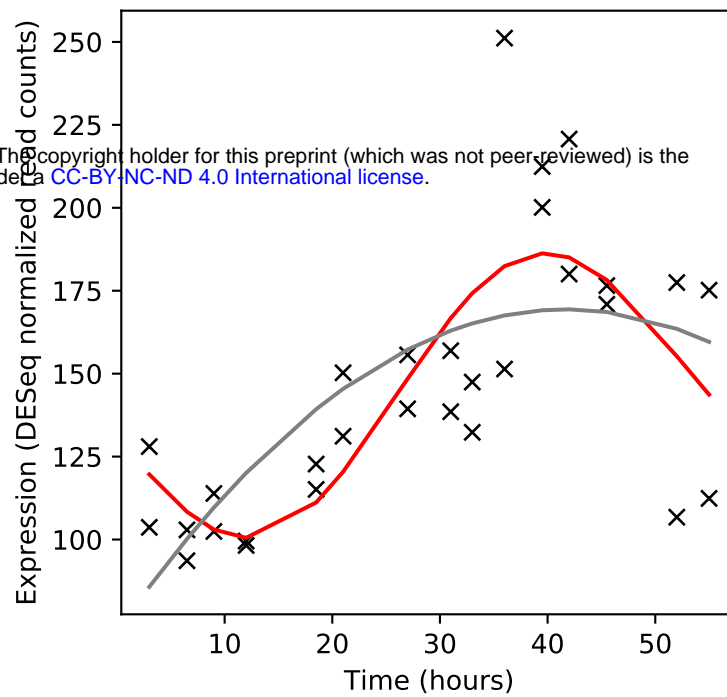
Rv3055/-



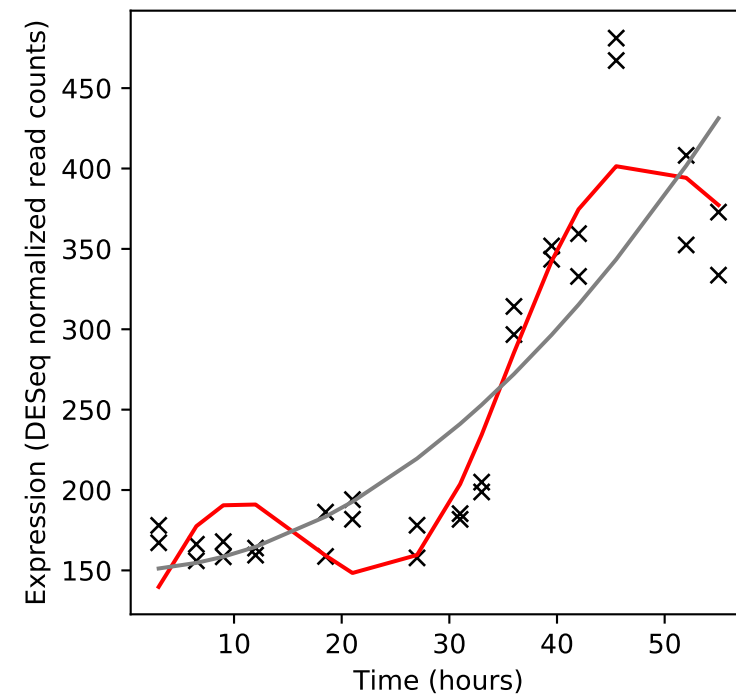
Rv3056/dinP



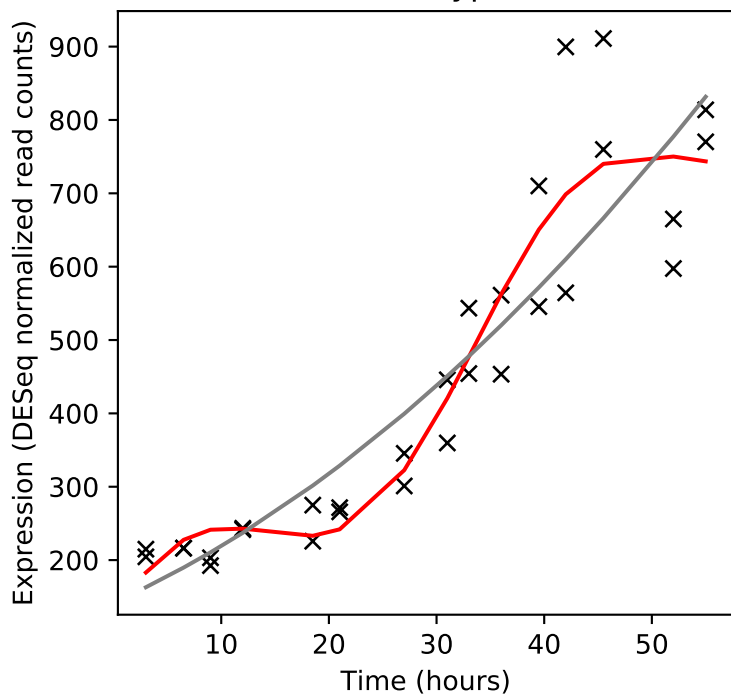
Rv3057c/-



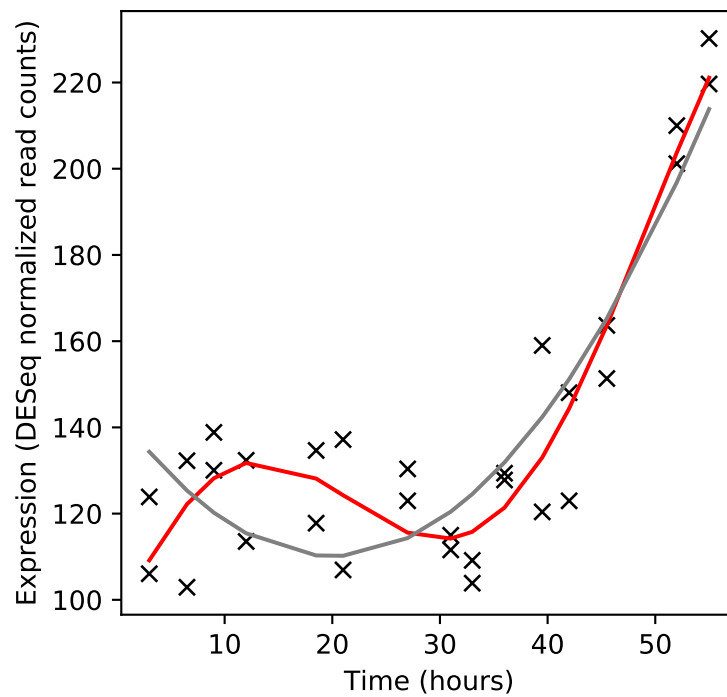
Rv3058c/-



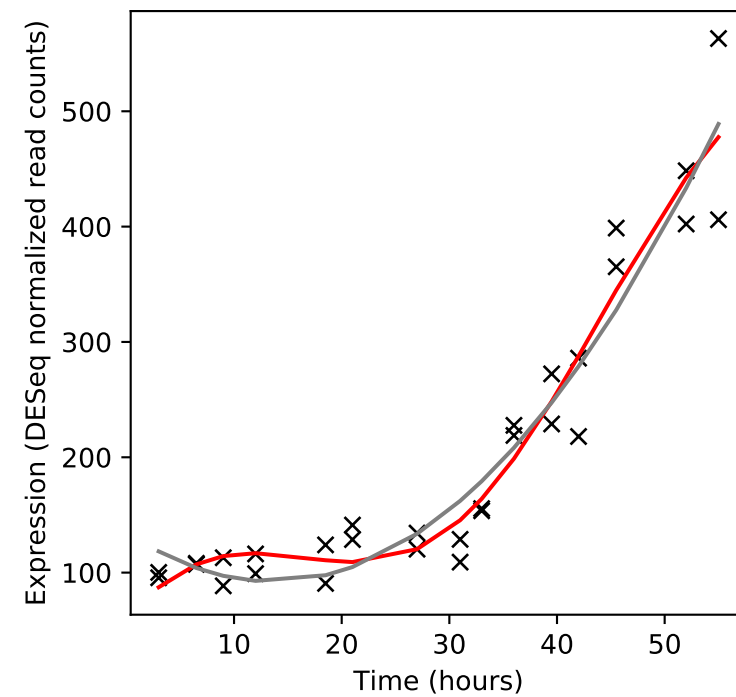
Rv3059/cyp136



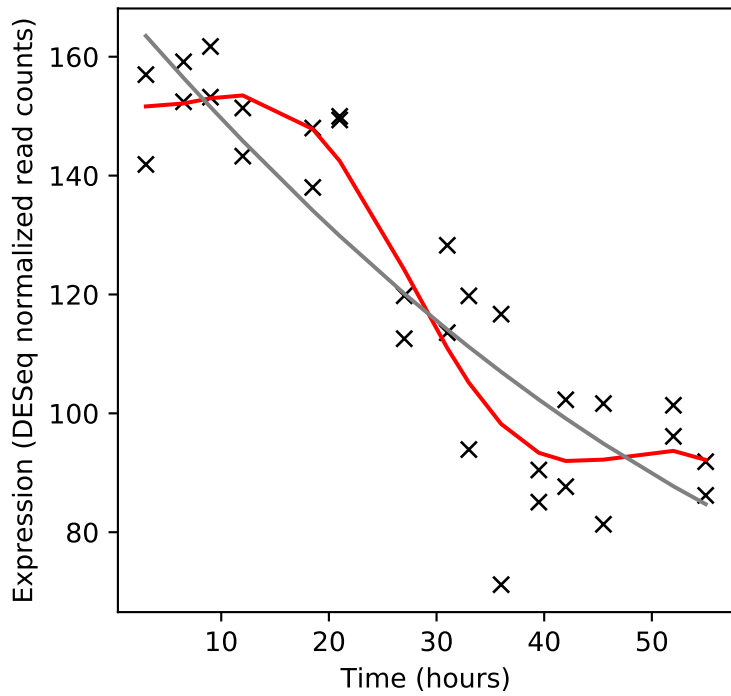
Rv3060c/-



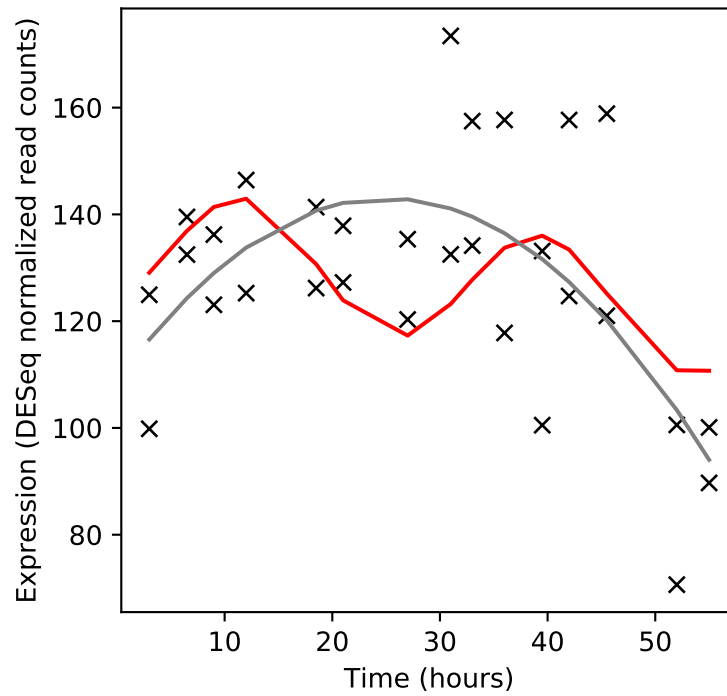
Rv3061c/fadE22



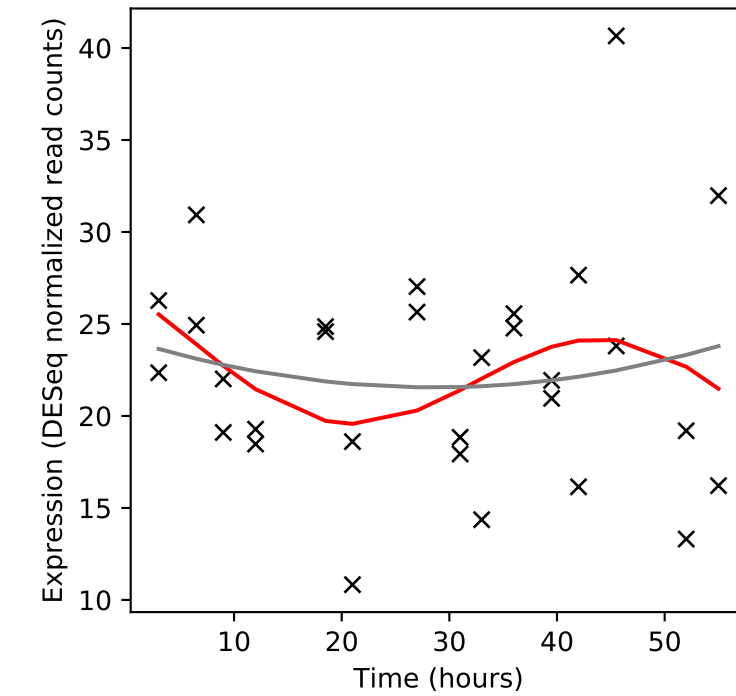
Rv3062/ligB



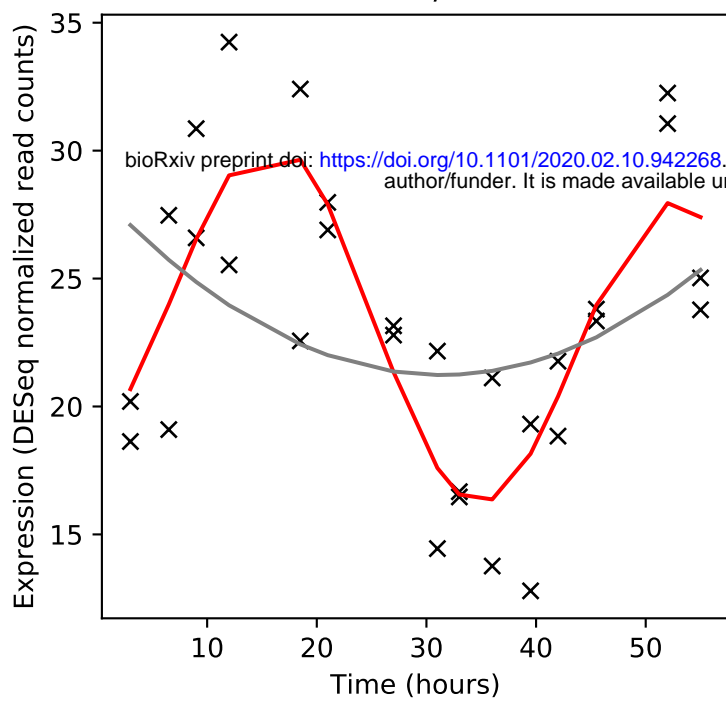
Rv3063/cstA



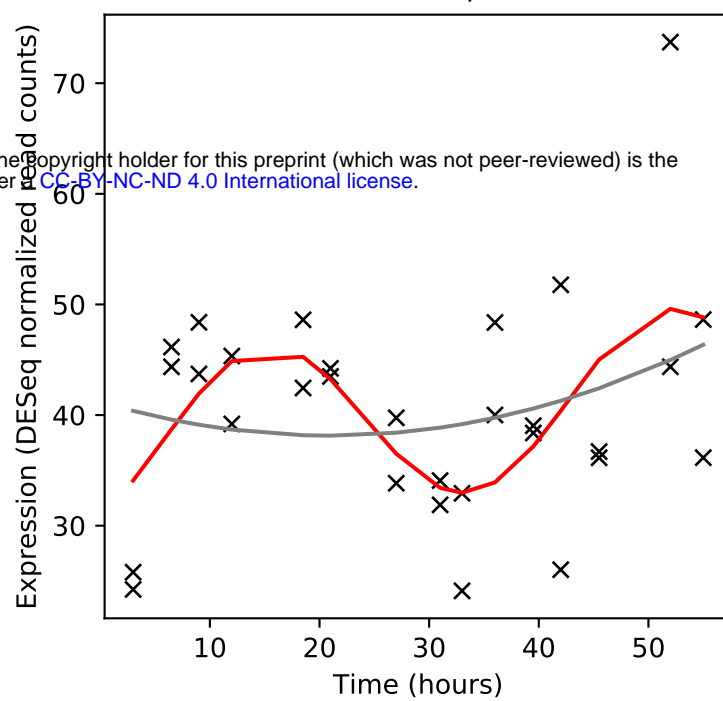
Rv3064c/-



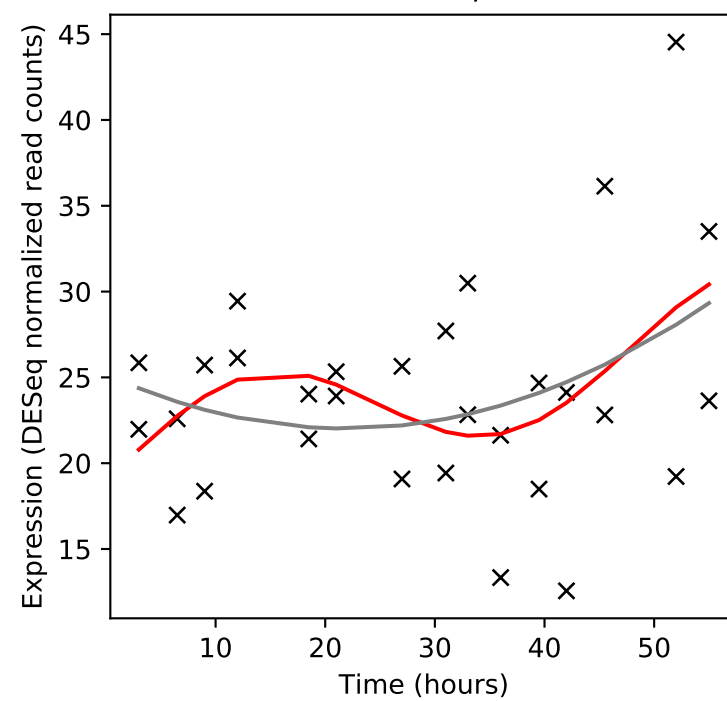
Rv3065/mmr



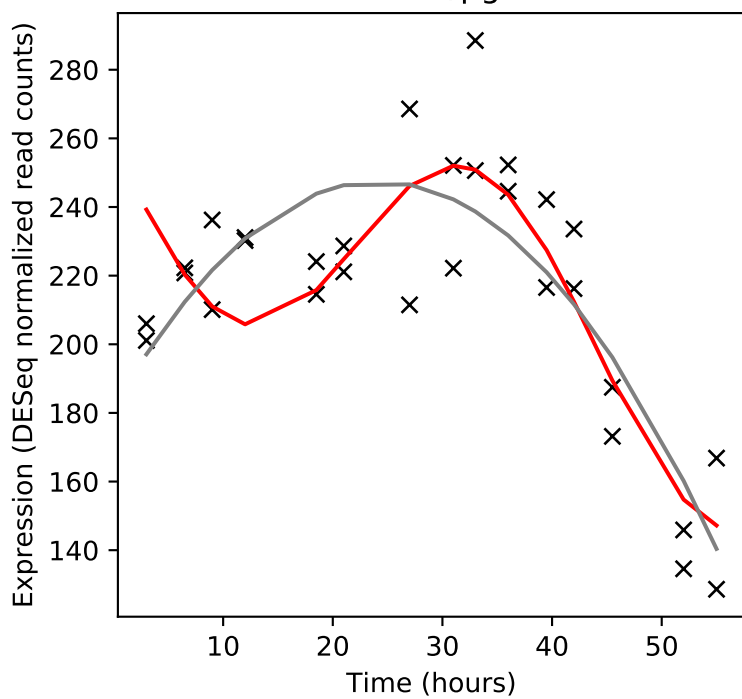
Rv3066/-



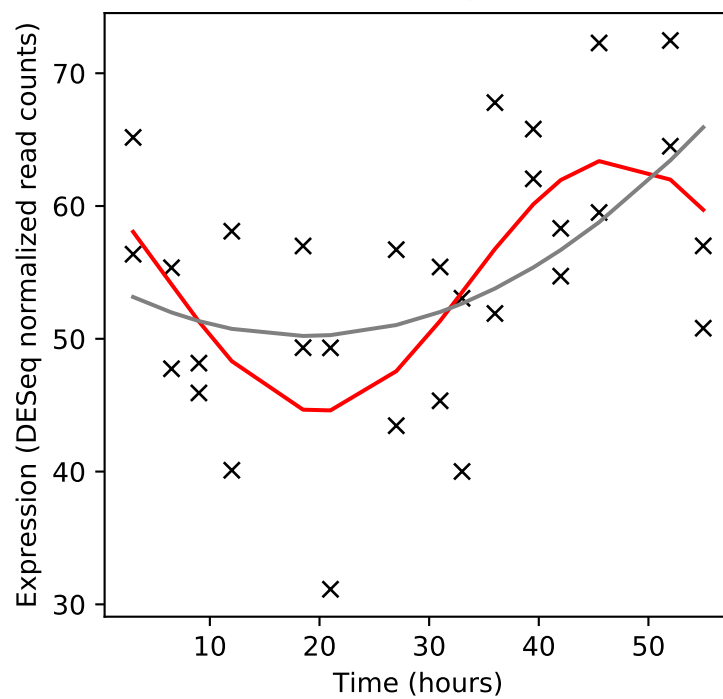
Rv3067/-



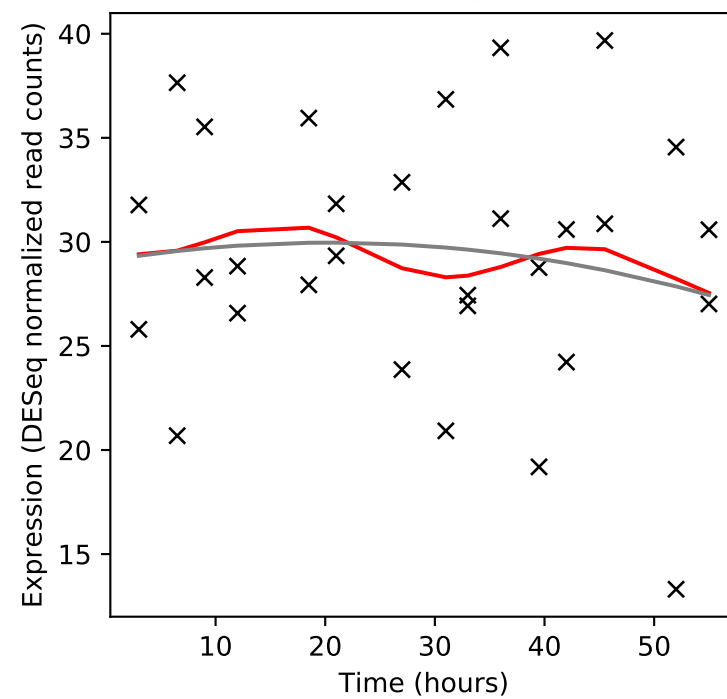
Rv3068c/pgmA



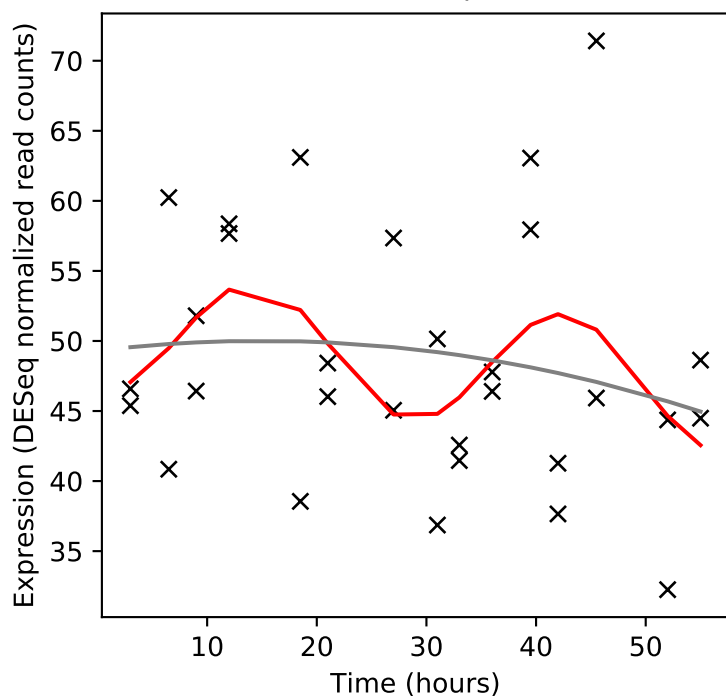
Rv3069/-



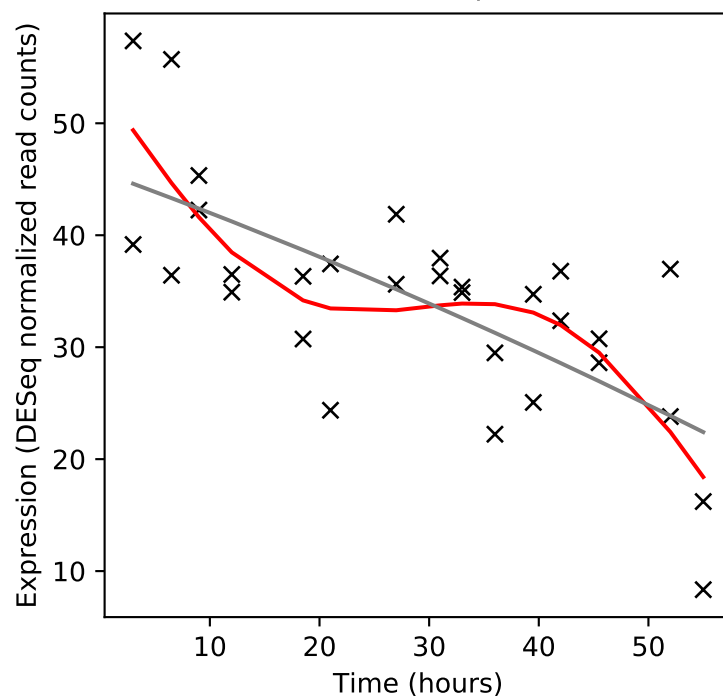
Rv3070/-



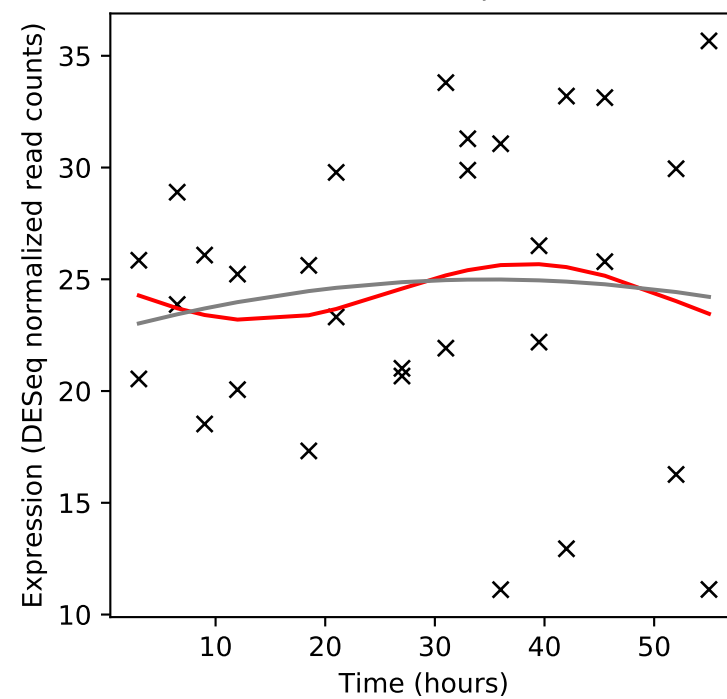
Rv3071/-



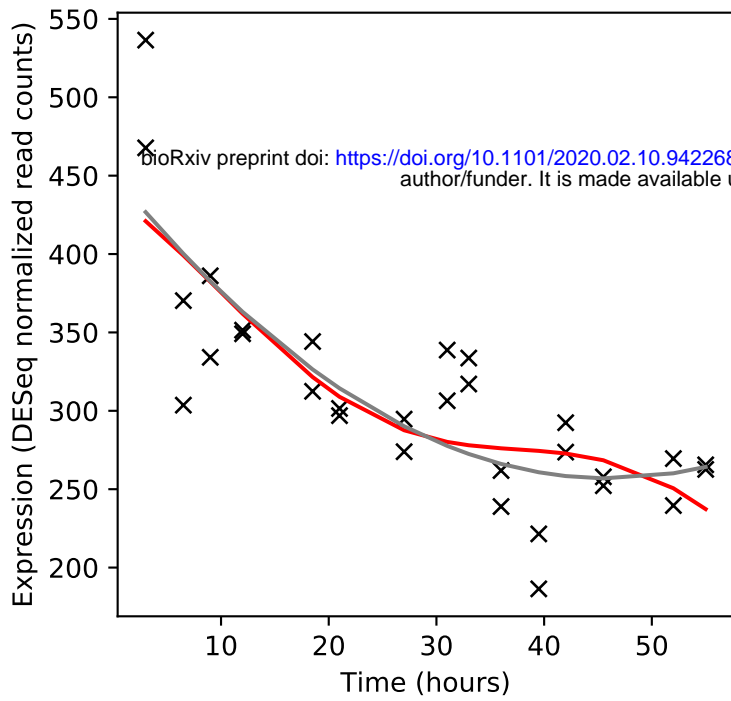
Rv3072c/-



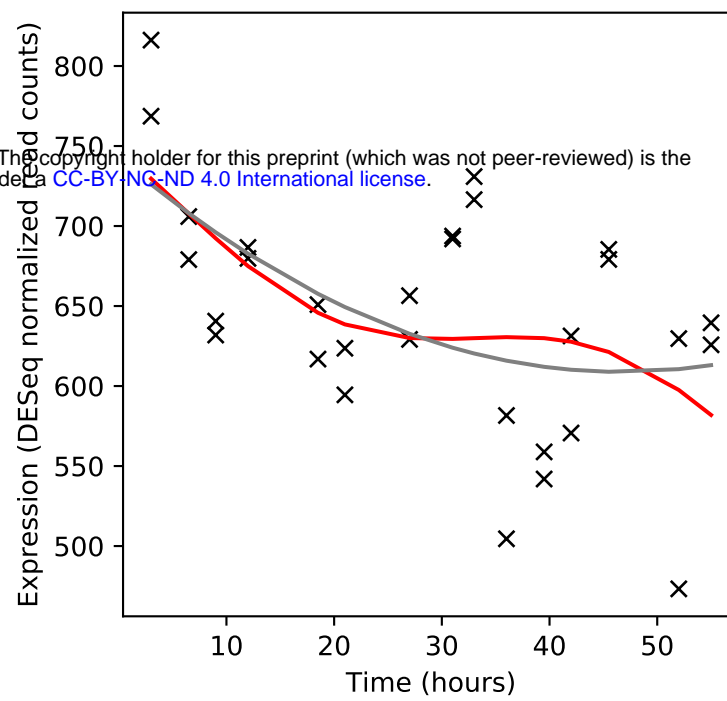
Rv3073c/-



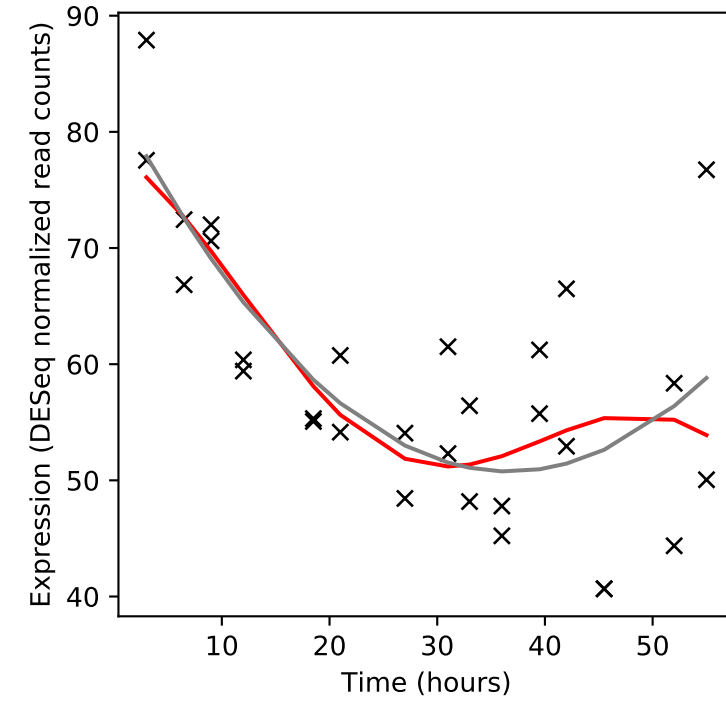
Rv3074/-



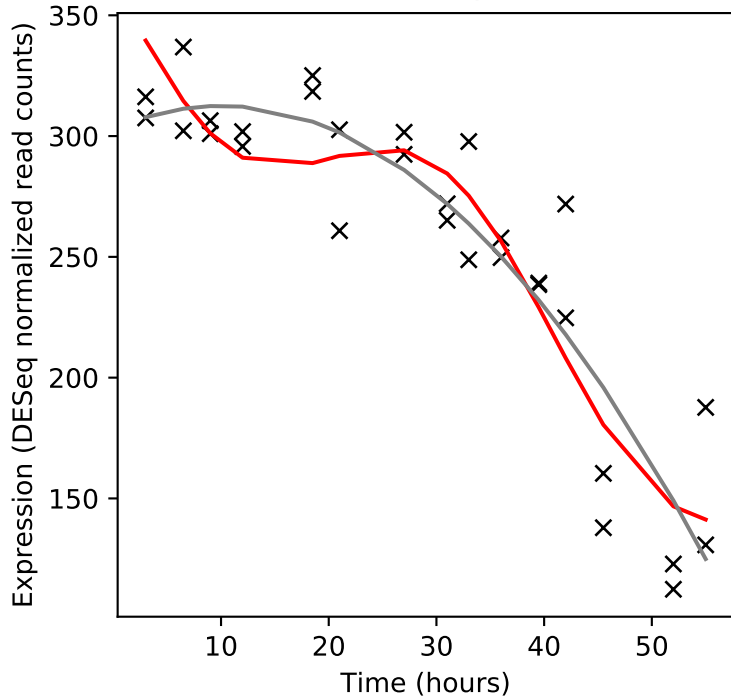
Rv3075c/-



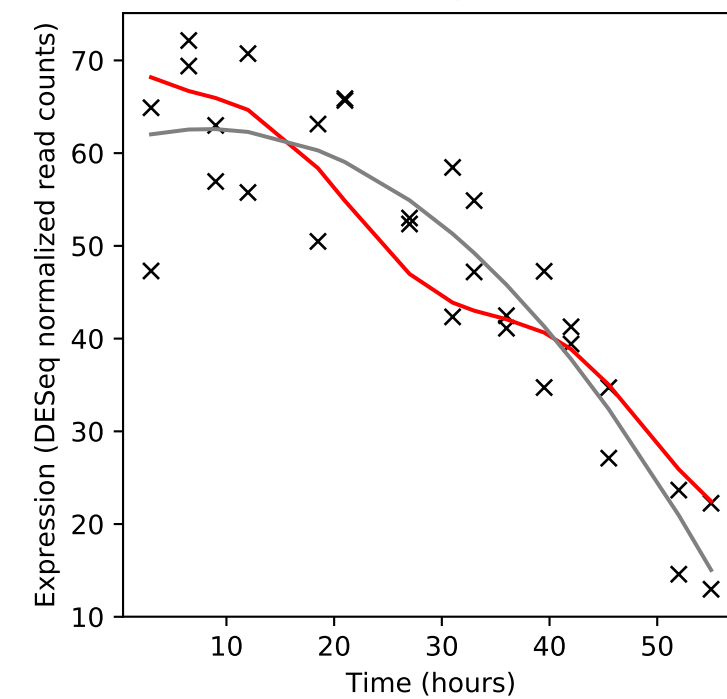
Rv3076/-



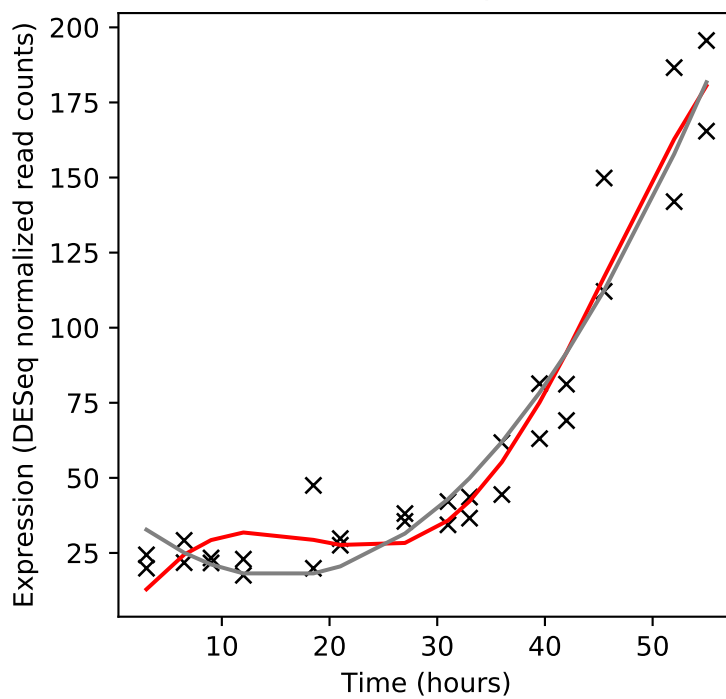
Rv3077/-



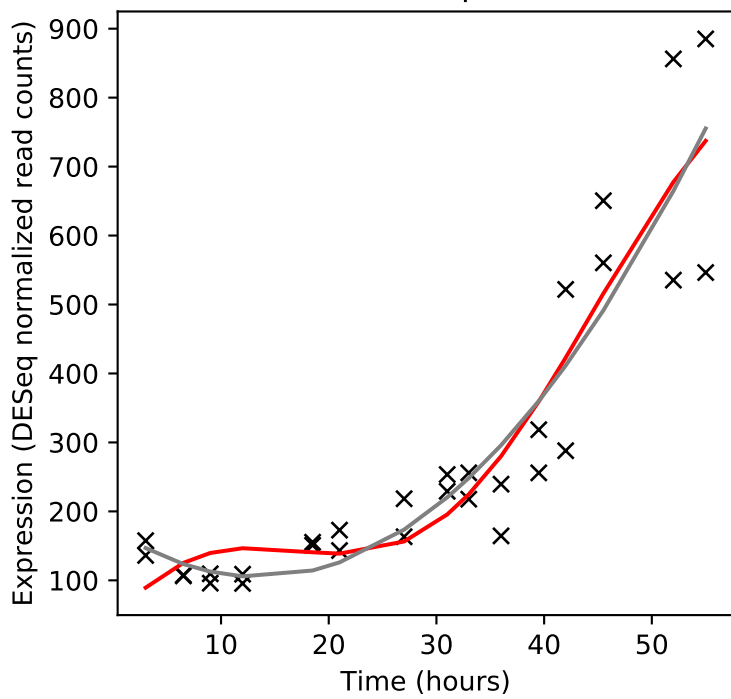
Rv3078/hab



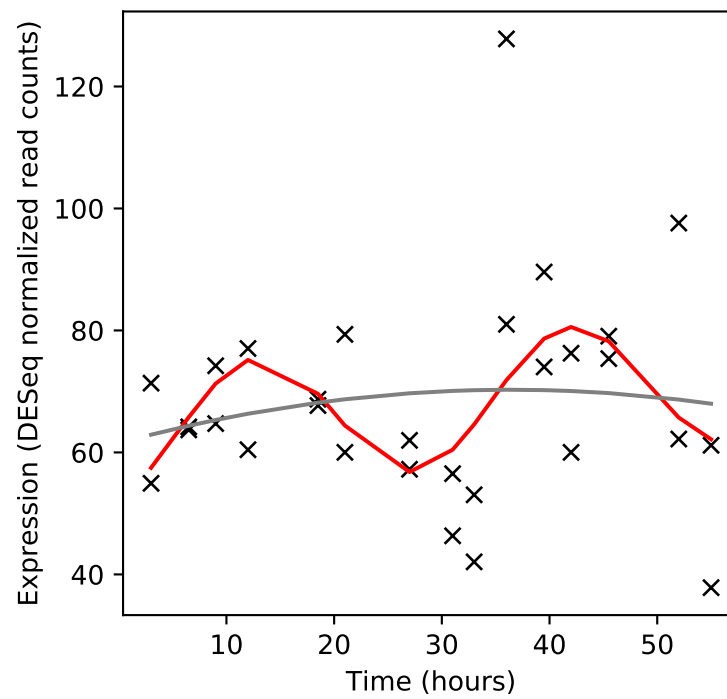
Rv3079c/-



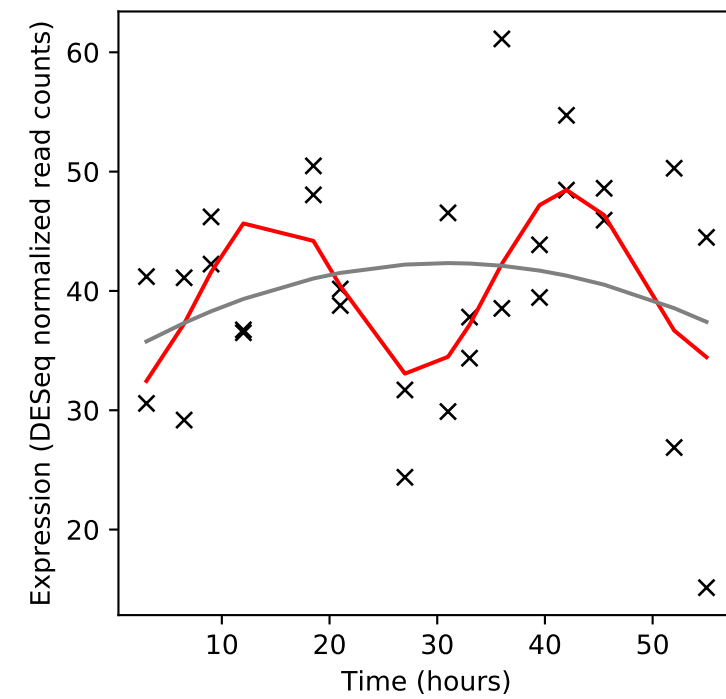
Rv3080c/pknK



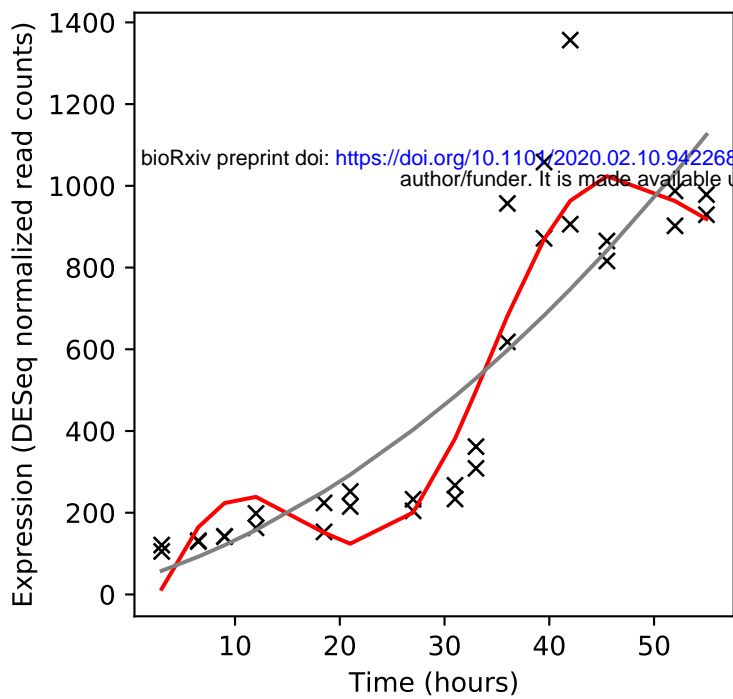
Rv3081/-



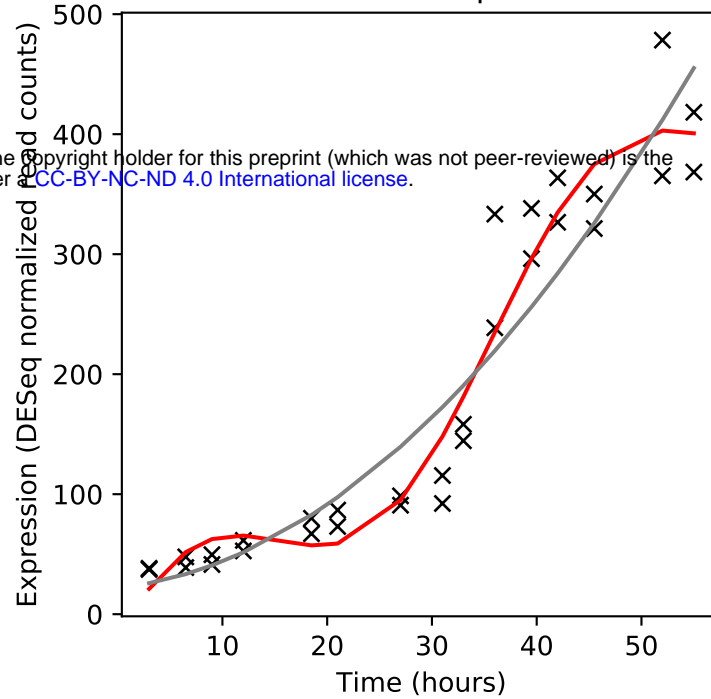
Rv3082c/virS



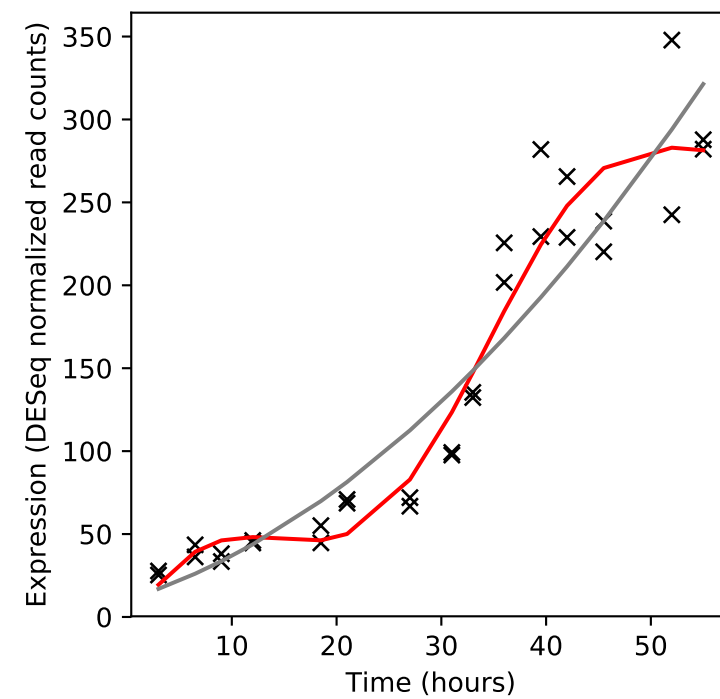
Rv3083/-



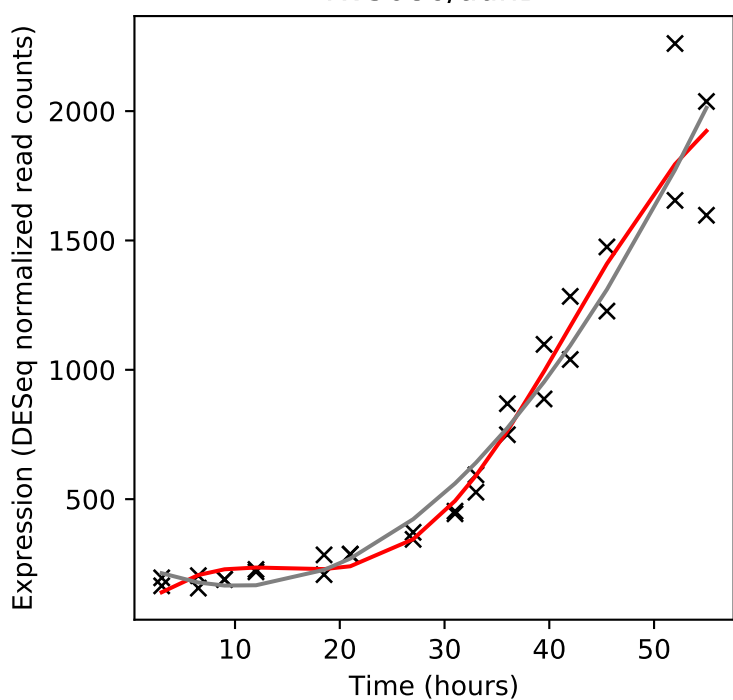
Rv3084/lipR



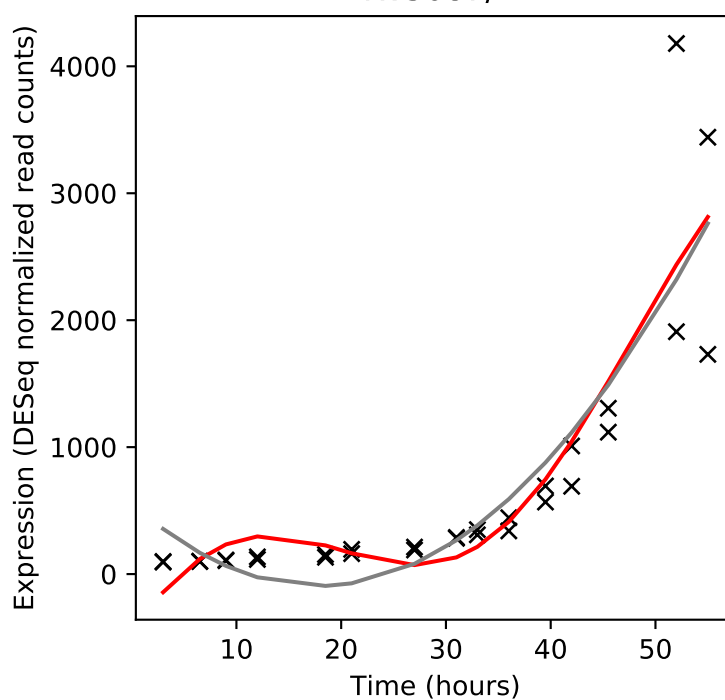
Rv3085/-



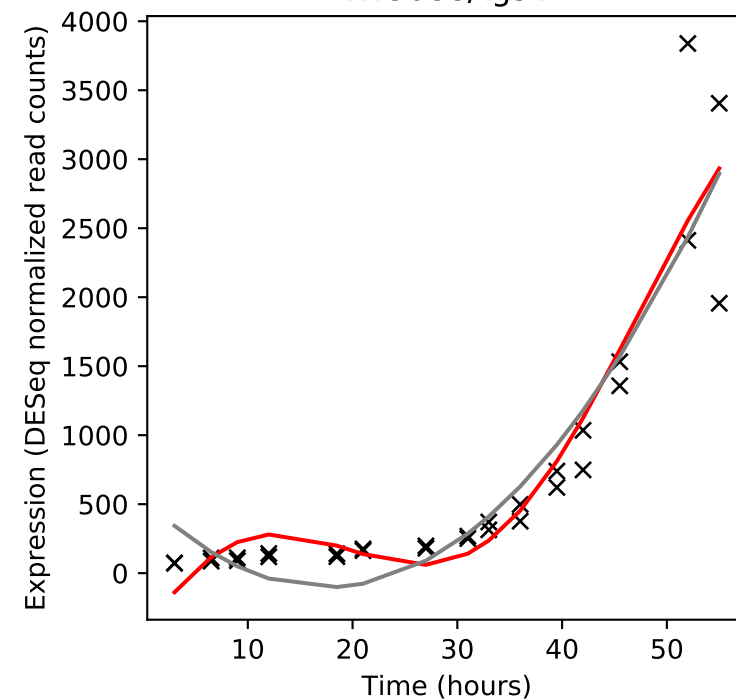
Rv3086/adhD



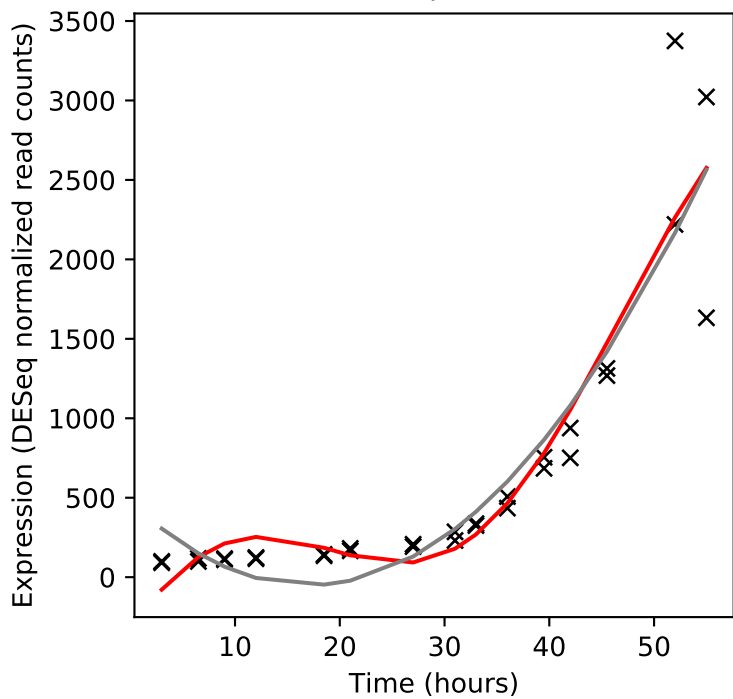
Rv3087/-



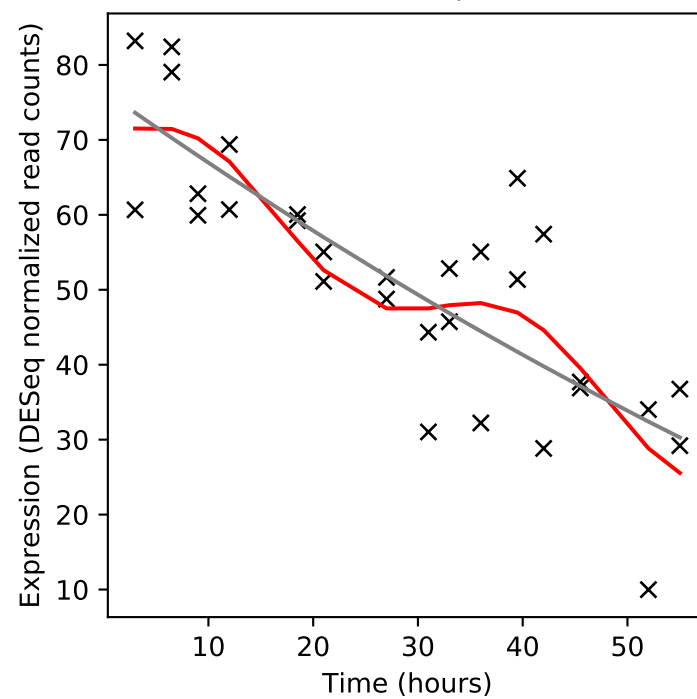
Rv3088/tgs4



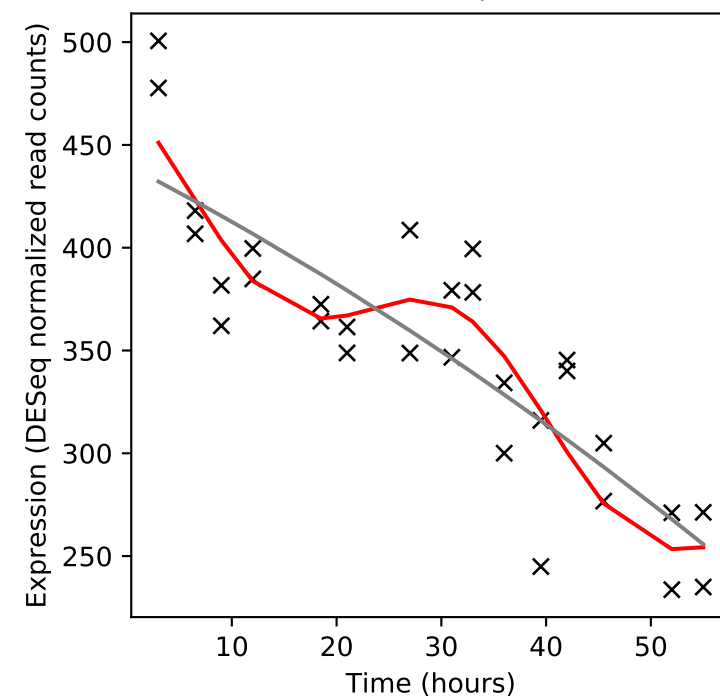
Rv3089/fadD13



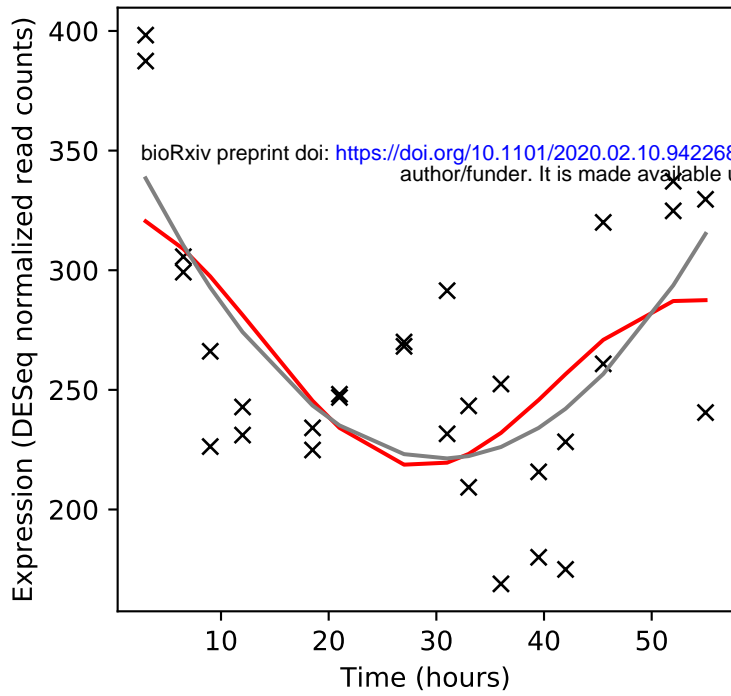
Rv3090/-



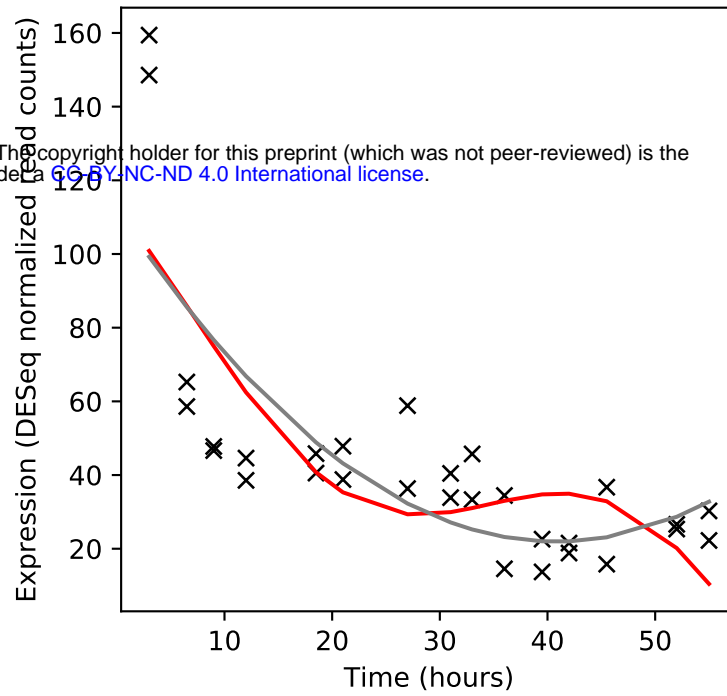
Rv3091/-



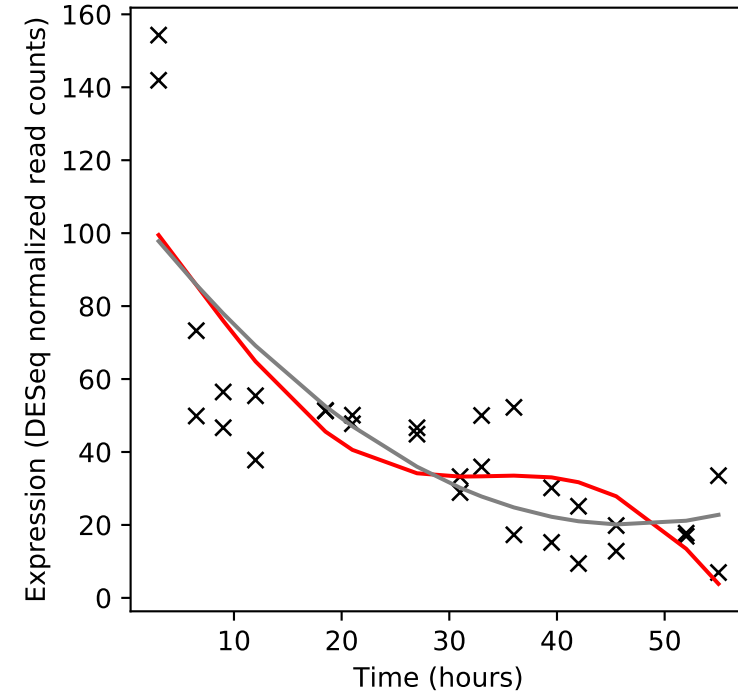
Rv3092c/-



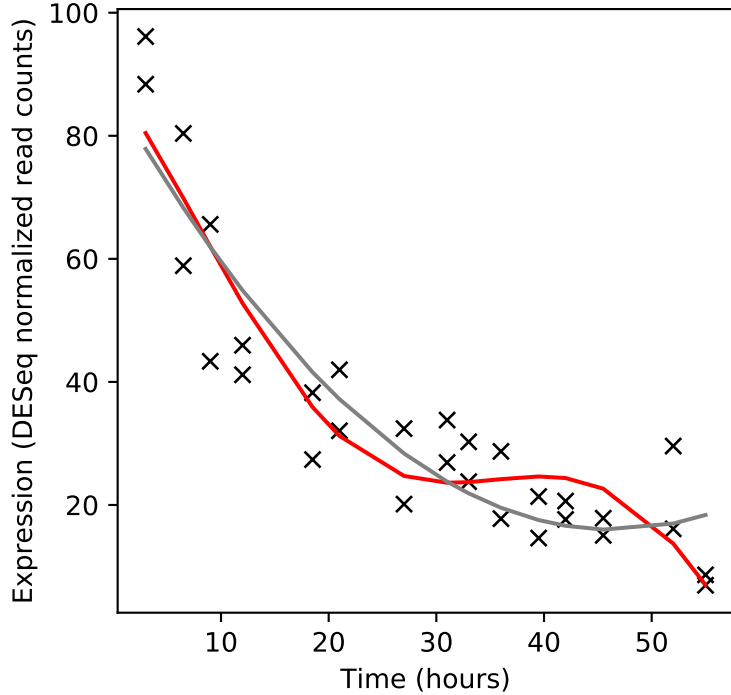
Rv3093c/-



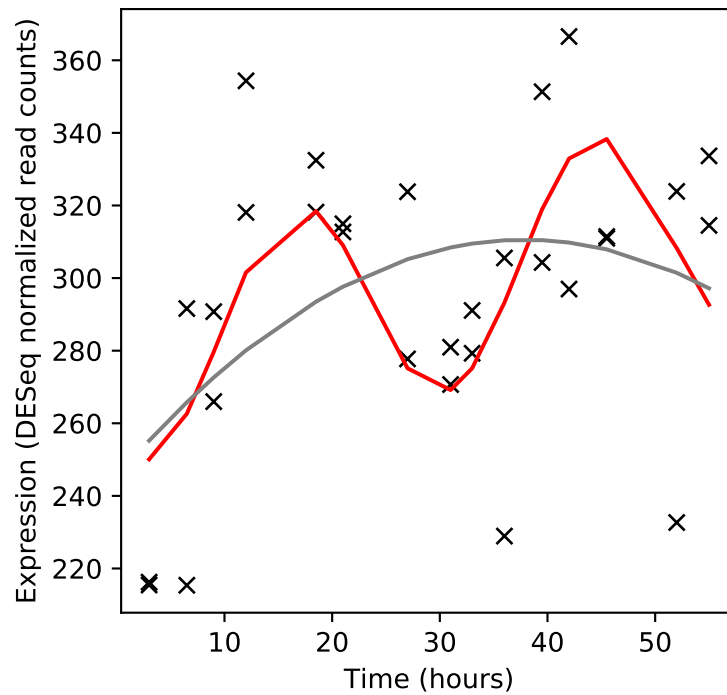
Rv3094c/-



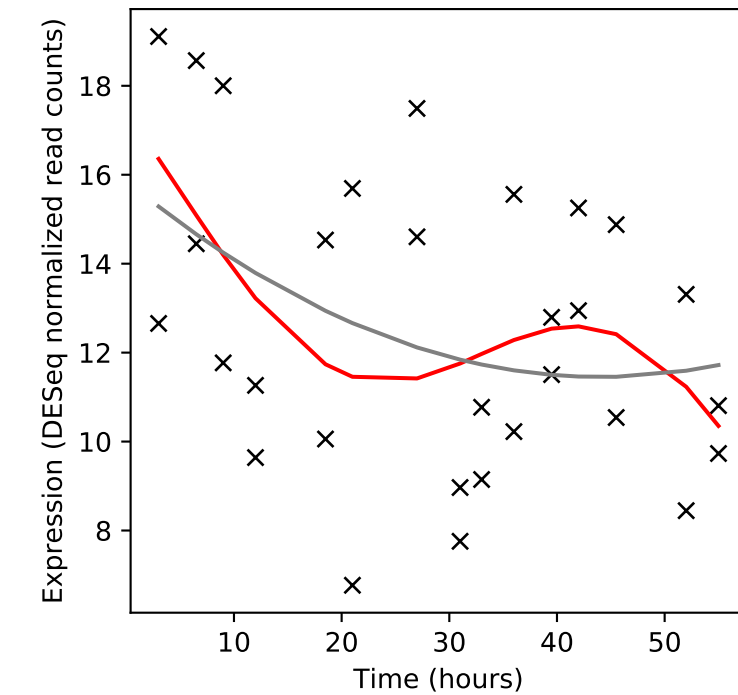
Rv3095/-



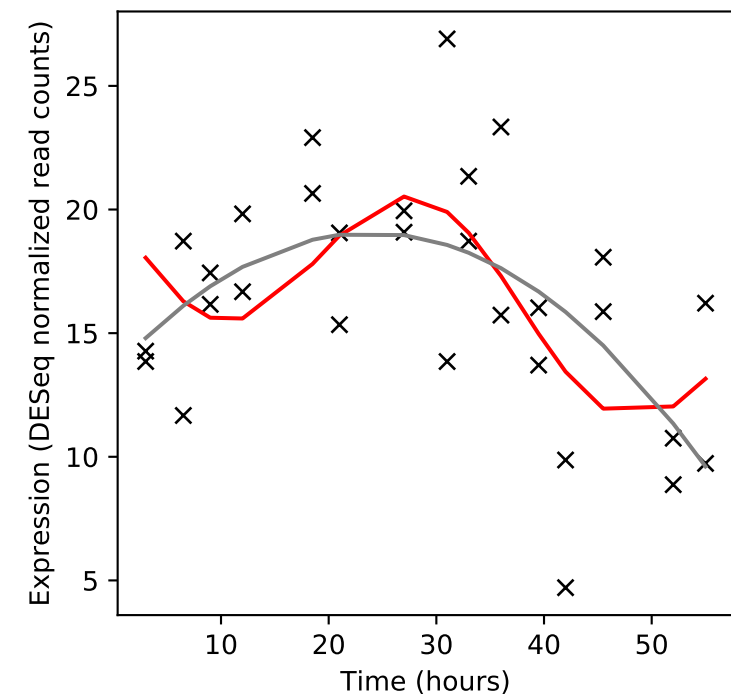
Rv3096/-



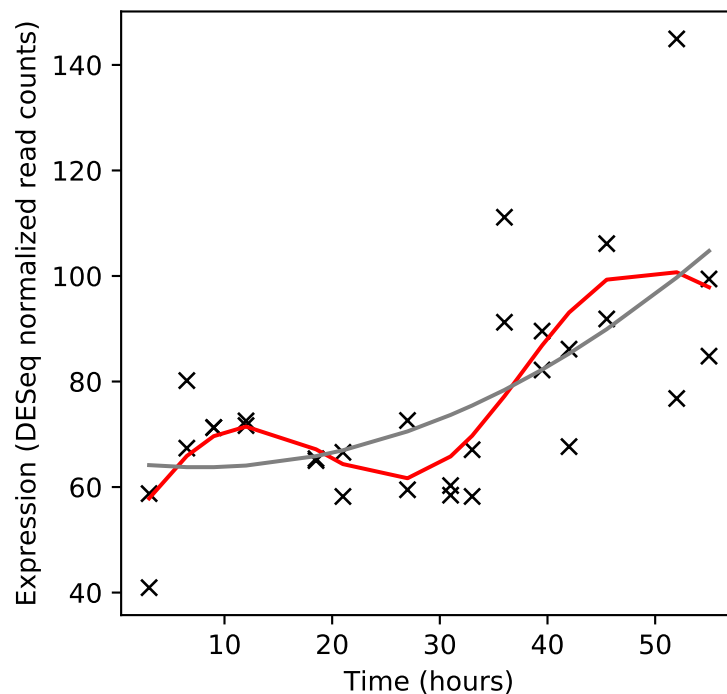
Rv3097c/lipY



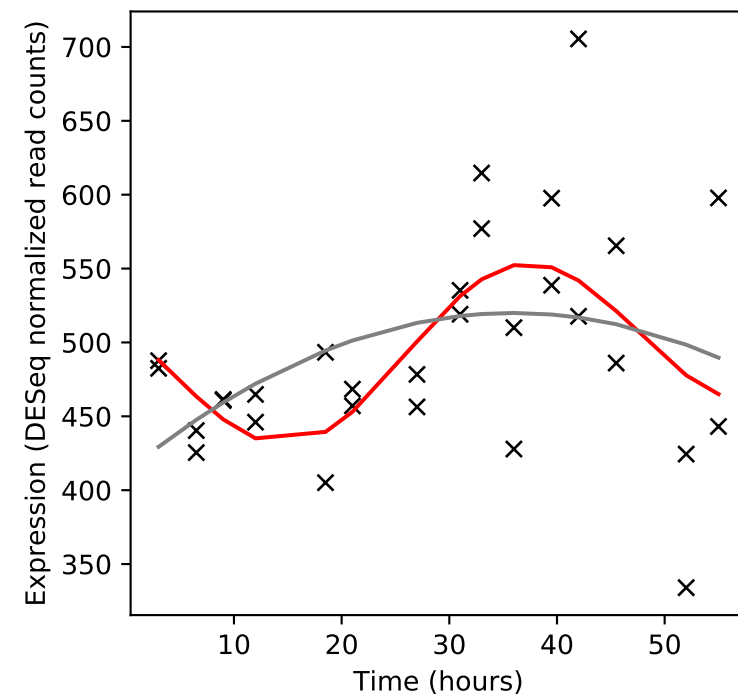
Rv3098c/-



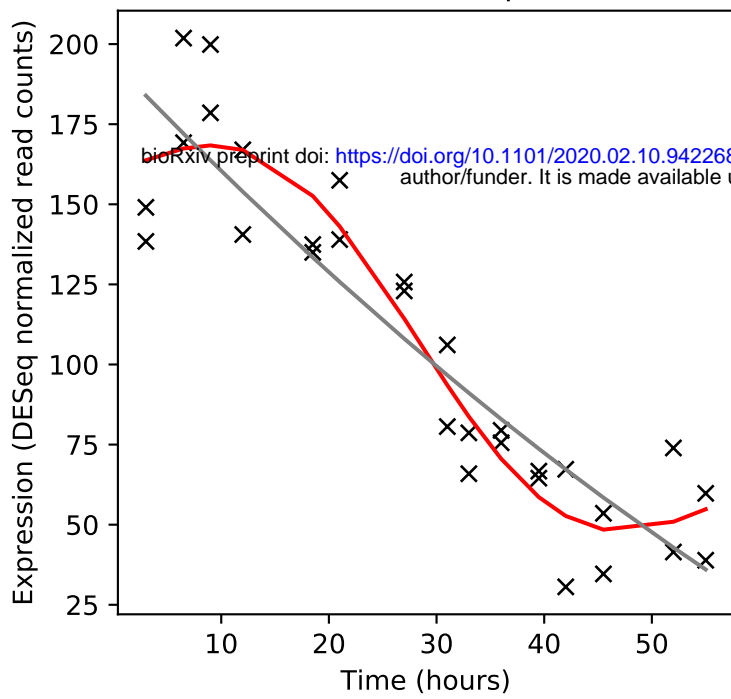
Rv3098A/-



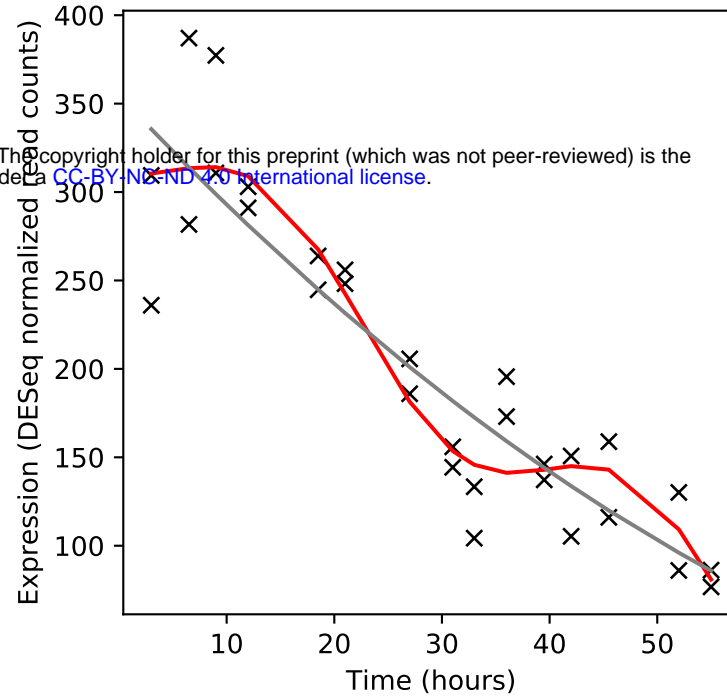
Rv3099c/-



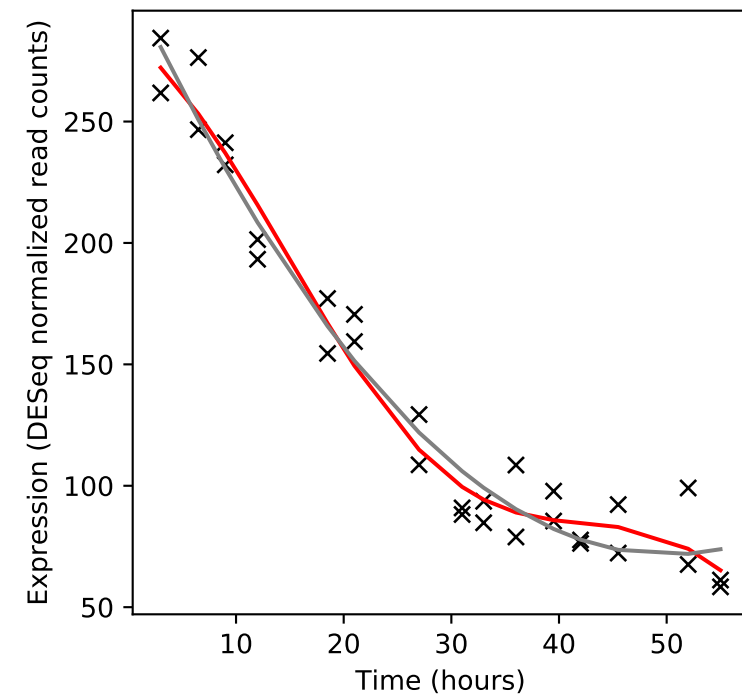
Rv3100c/smpB



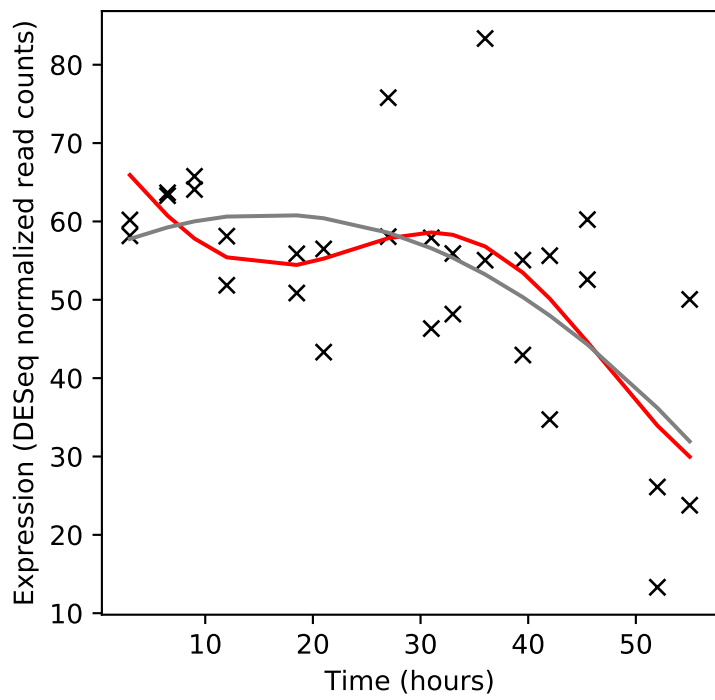
Rv3101c/ftsX



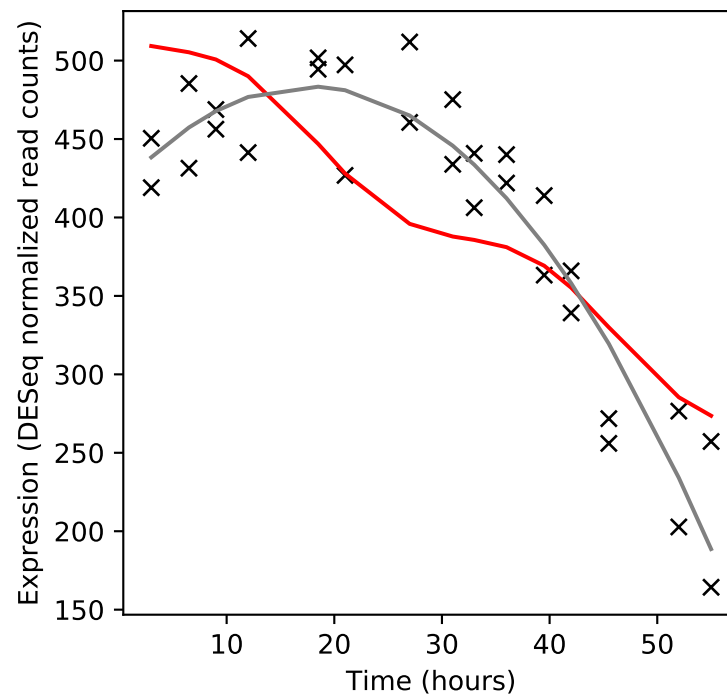
Rv3102c/ftsE



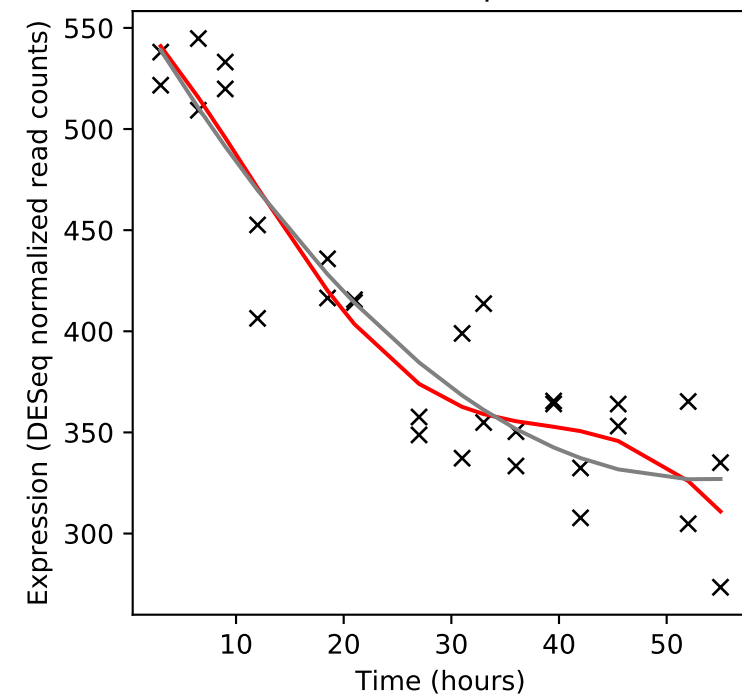
Rv3103c/-



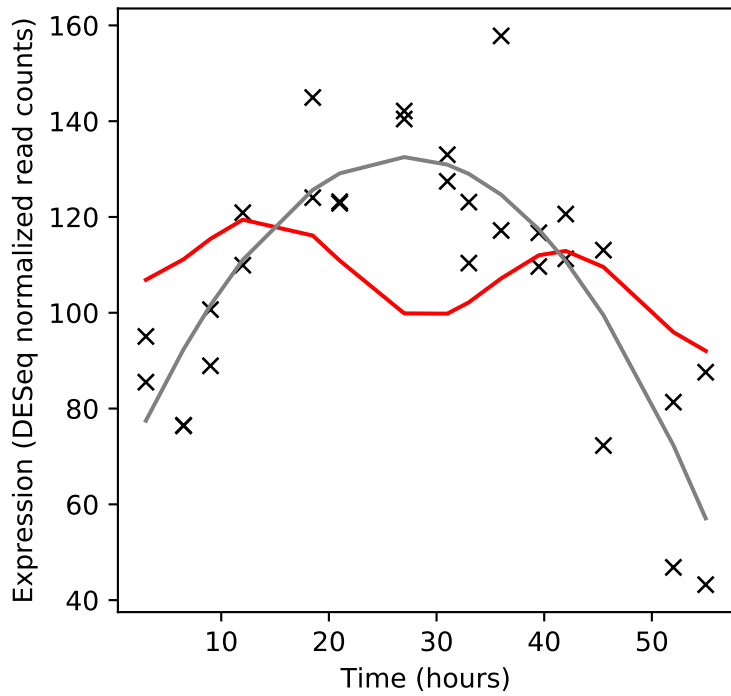
Rv3104c/-



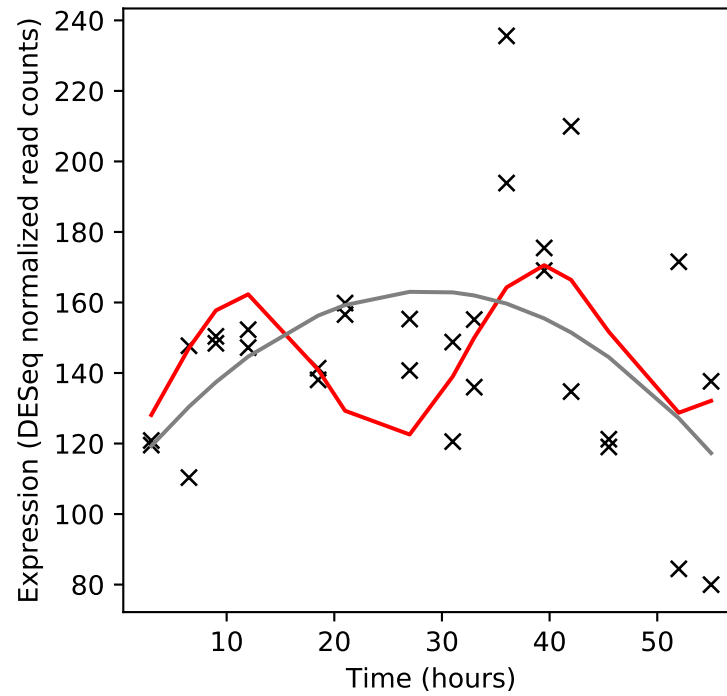
Rv3105c/prfB



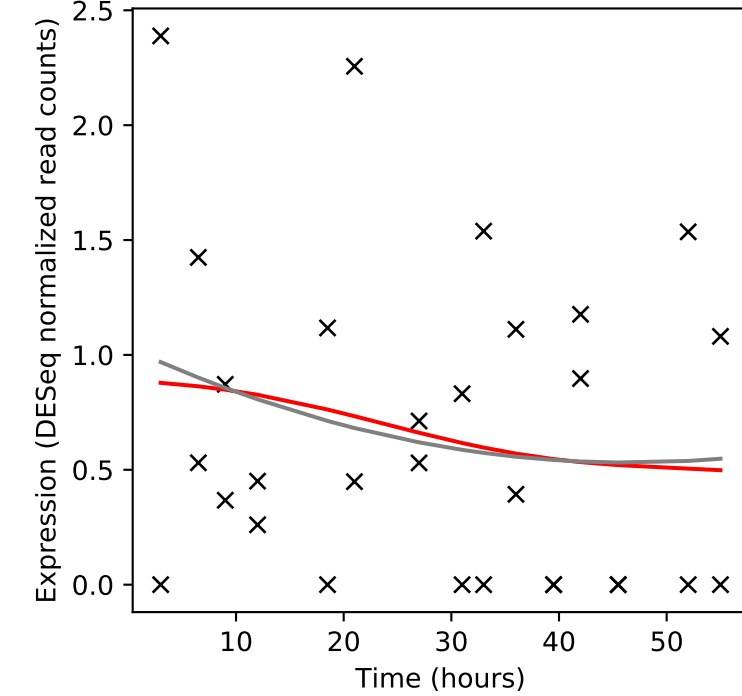
Rv3106c/fprA



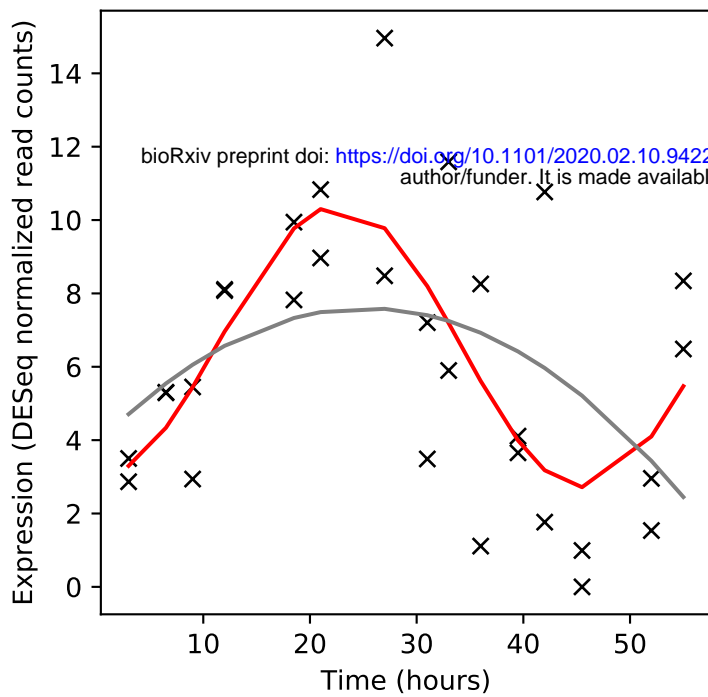
Rv3107c/agpS



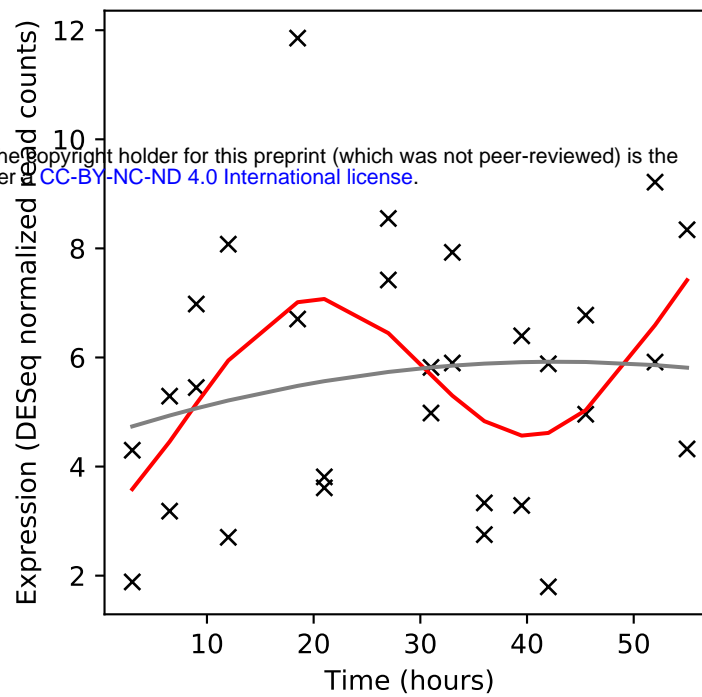
Rv3108c/-



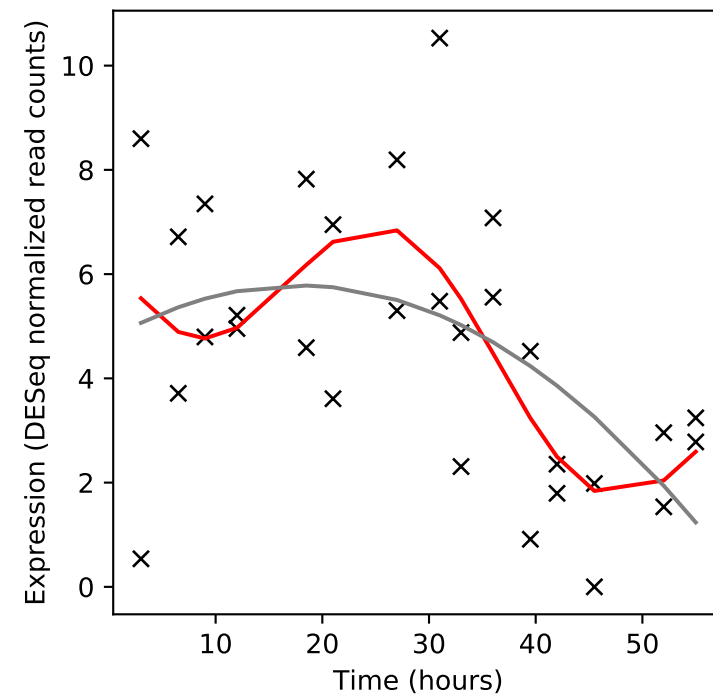
Rv3109/moaA1



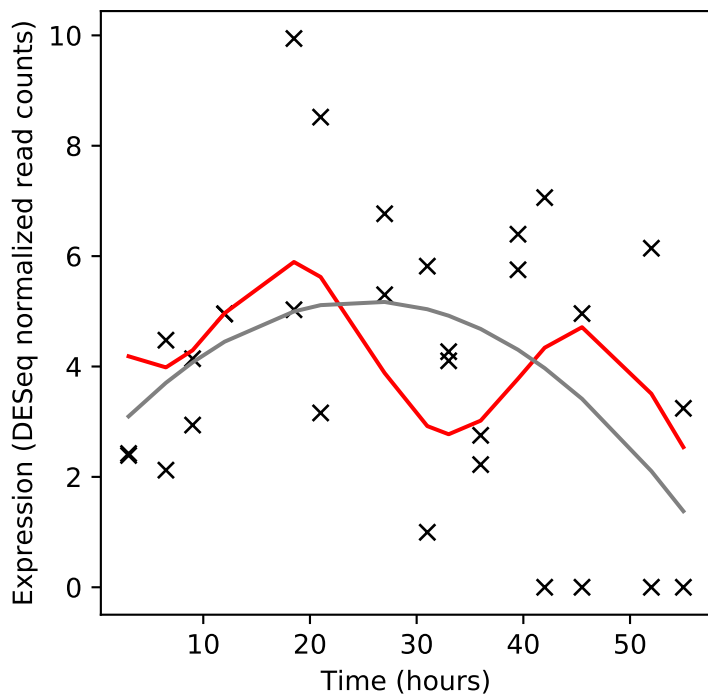
Rv3110/moaB1



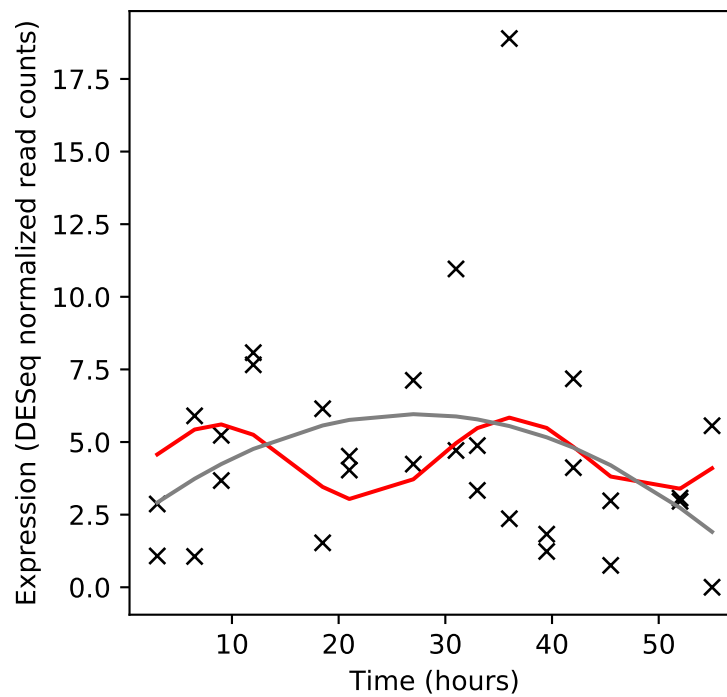
Rv3111/moaC1



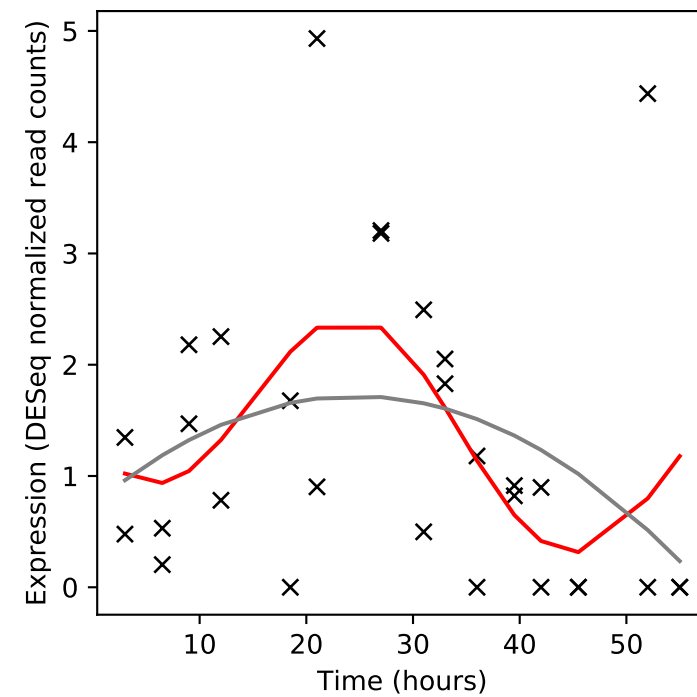
Rv3112/moaD1



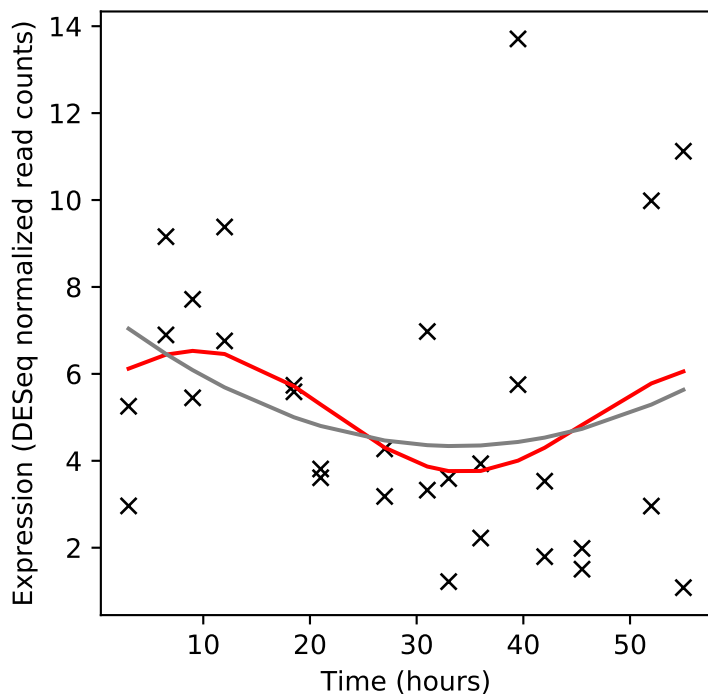
Rv3113/-



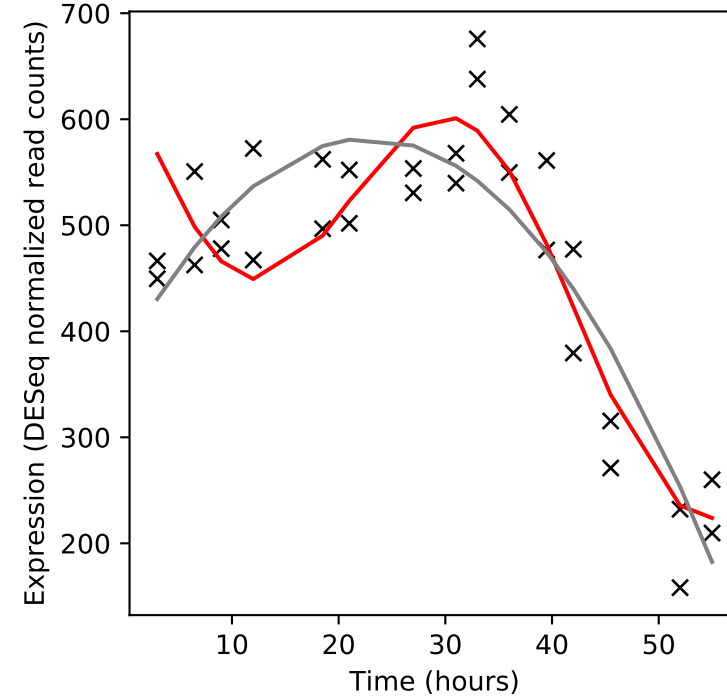
Rv3114/-



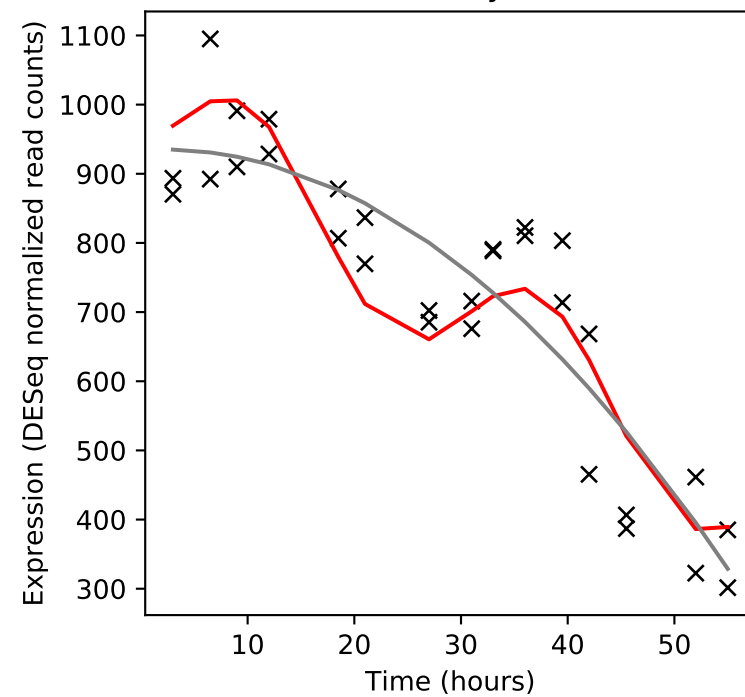
Rv3115/-



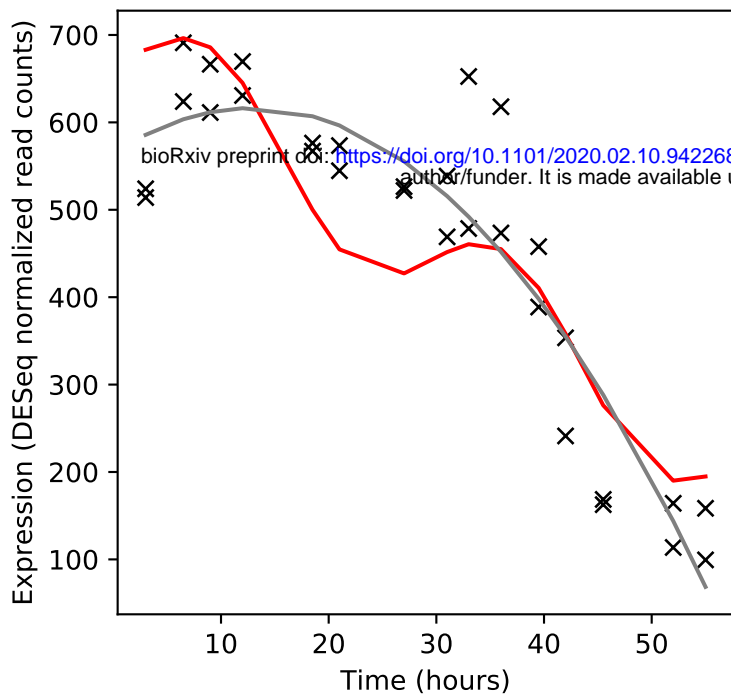
Rv3116/moeB2



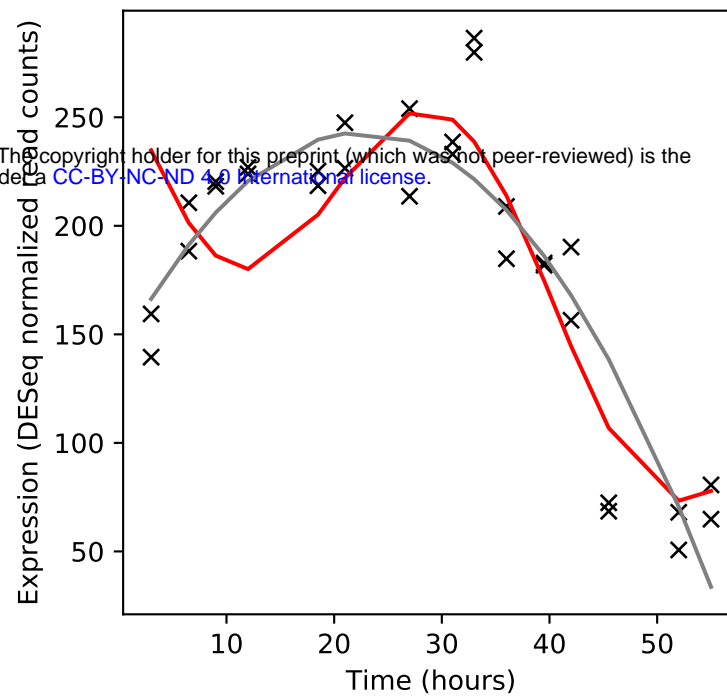
Rv3117/cysA3



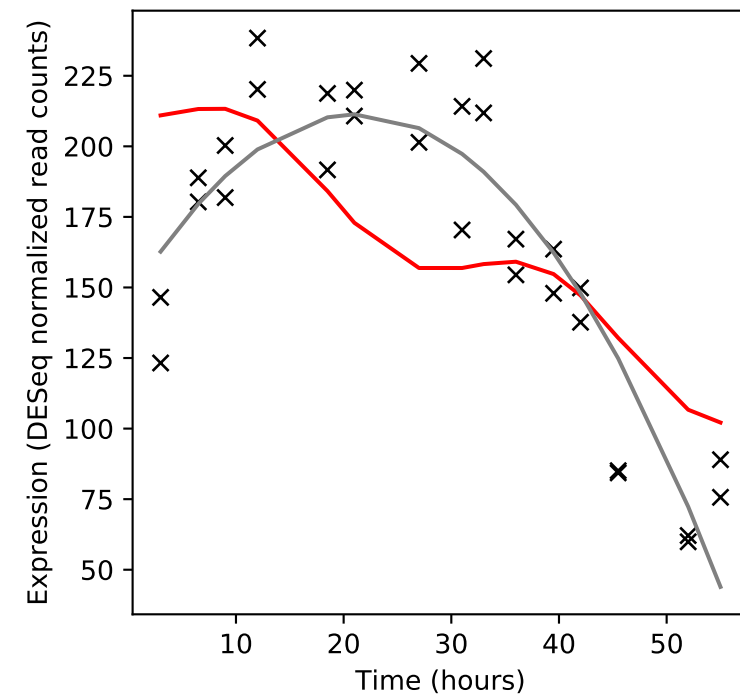
Rv3118/sseC1



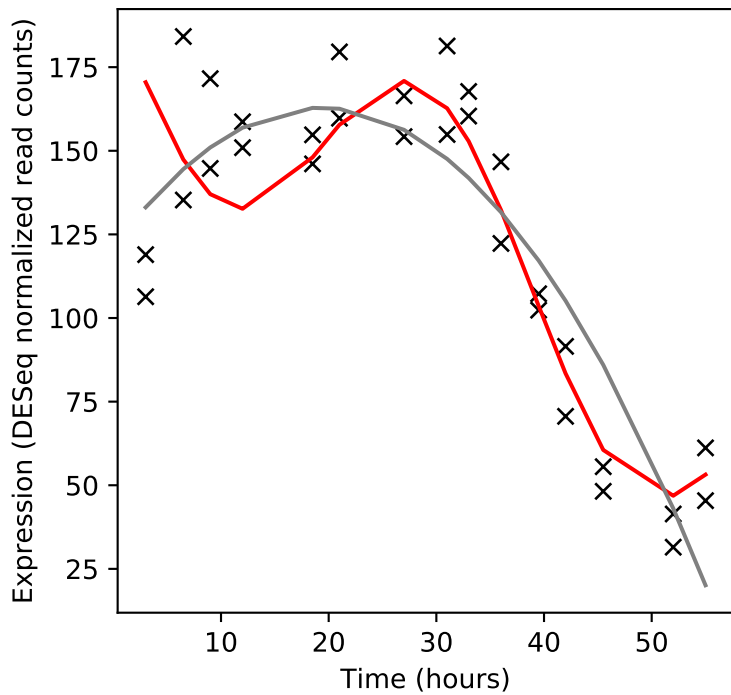
Rv3119/moaE1



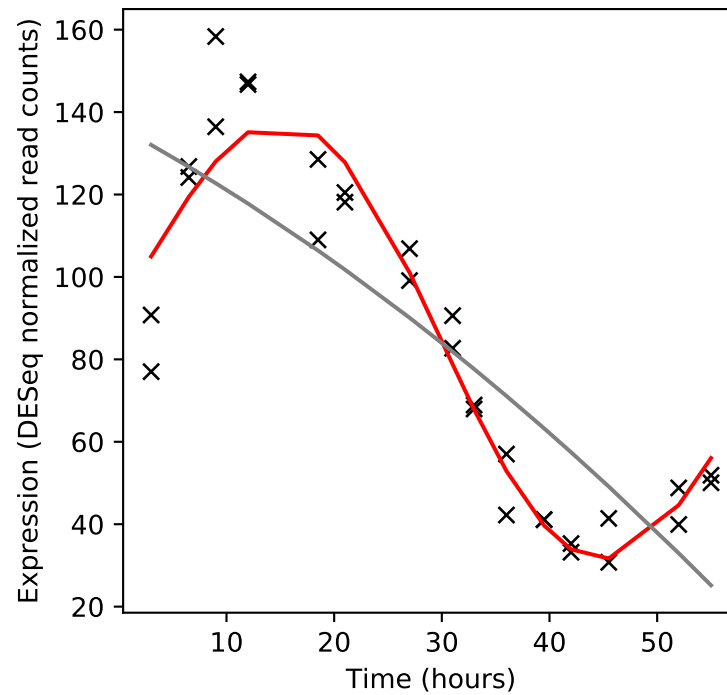
Rv3120/-



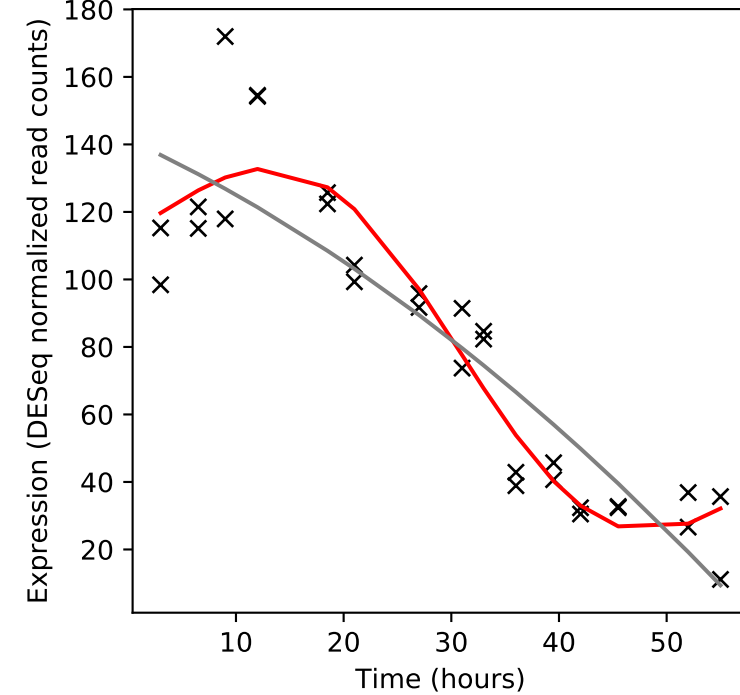
Rv3121/cyp141



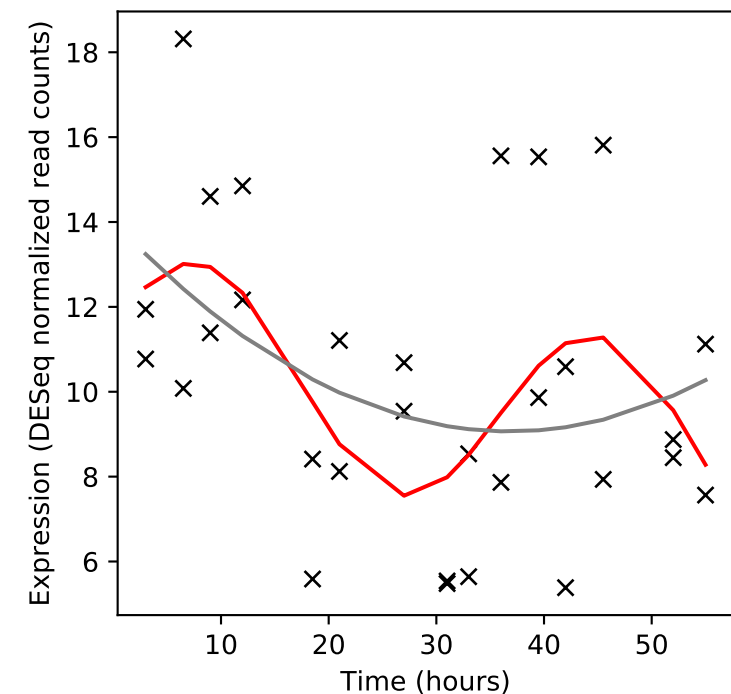
Rv3122/-



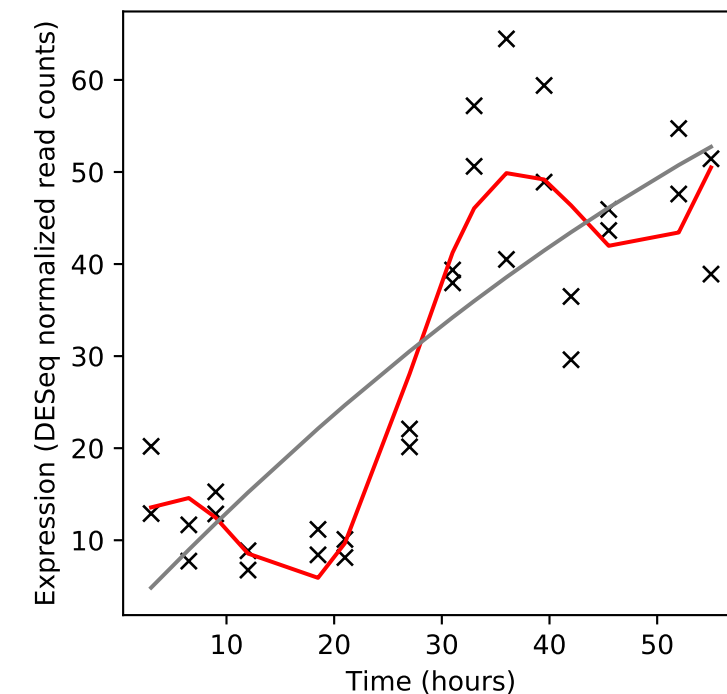
Rv3123/-



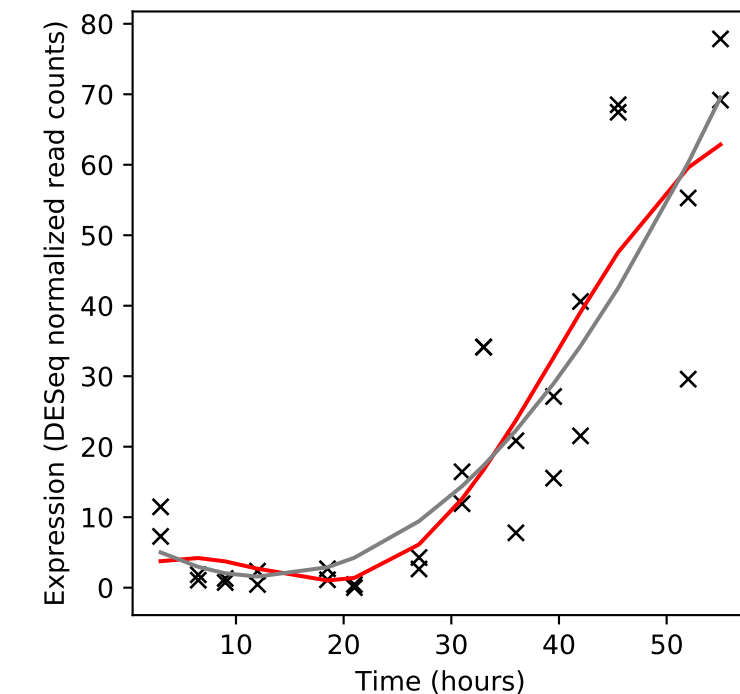
Rv3124/moaR1



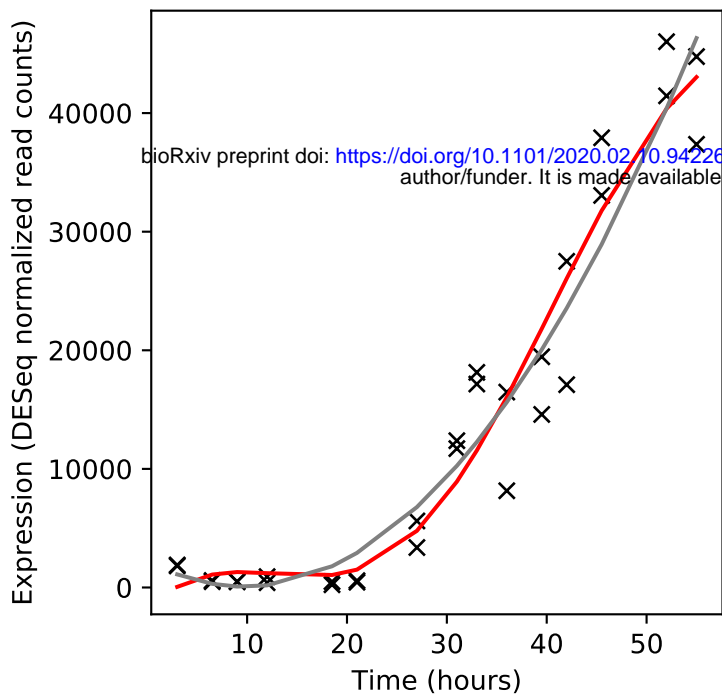
Rv3125c/PPE49



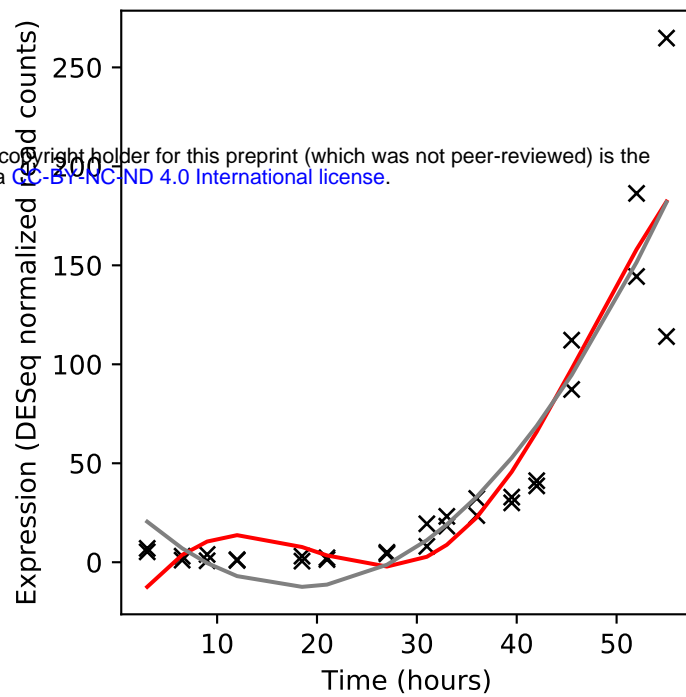
Rv3126c/-



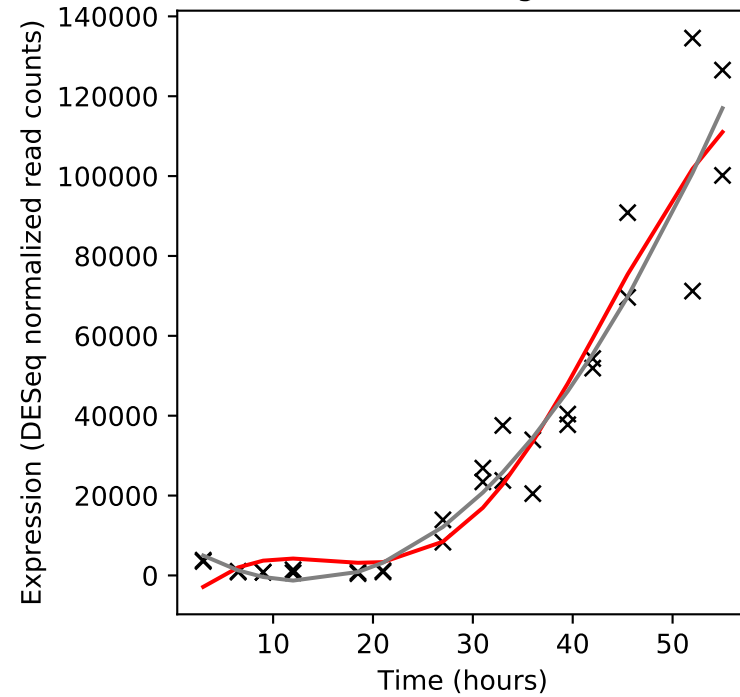
Rv3127/-



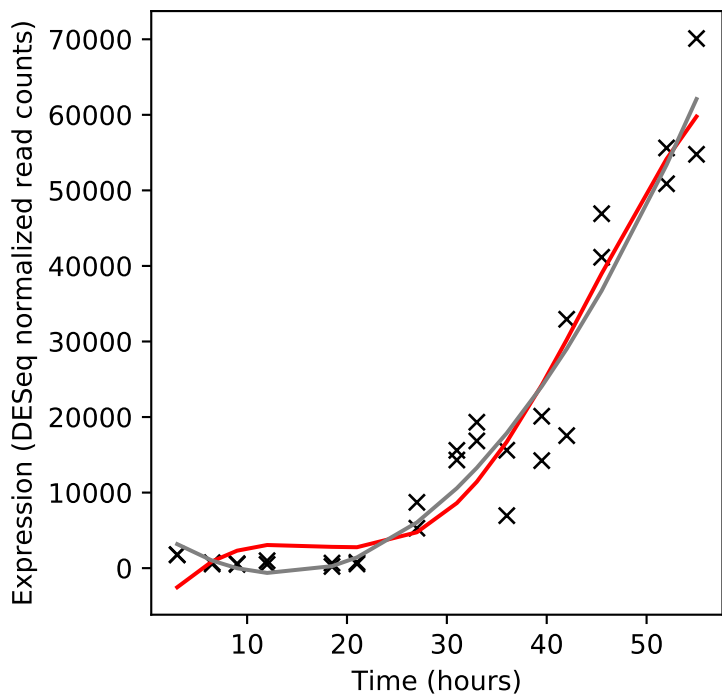
Rv3129/-



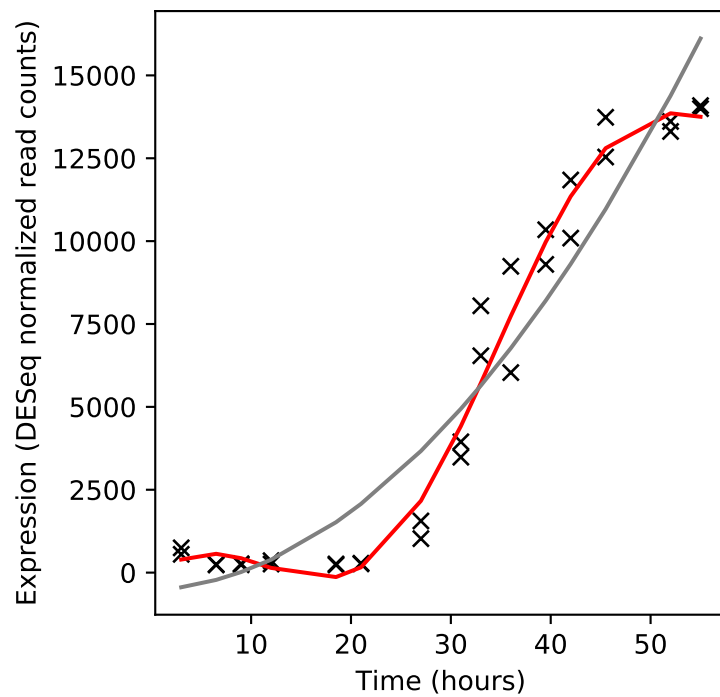
Rv3130c/tgs1



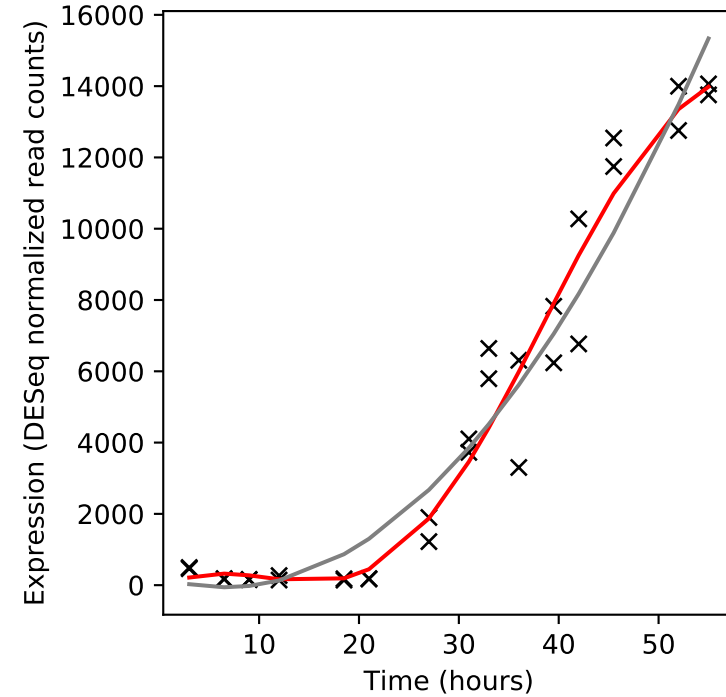
Rv3131/-



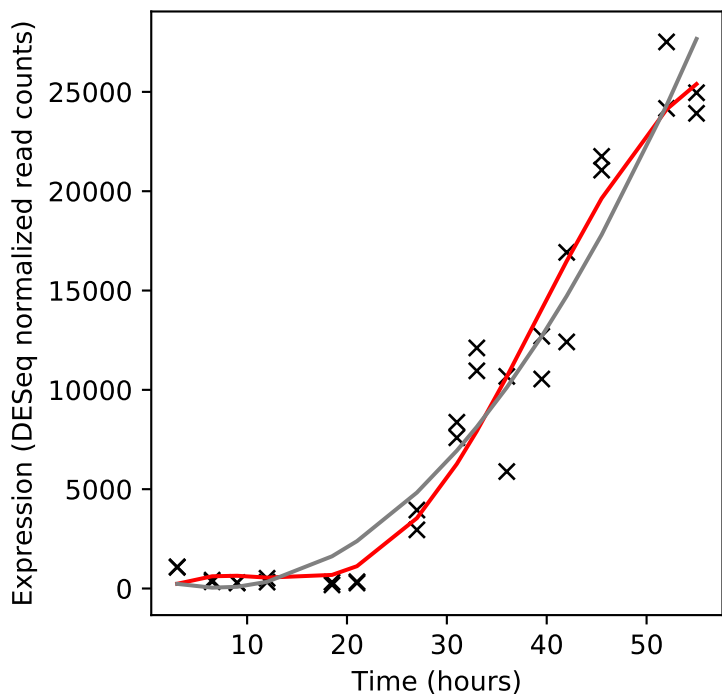
Rv3132c/devS



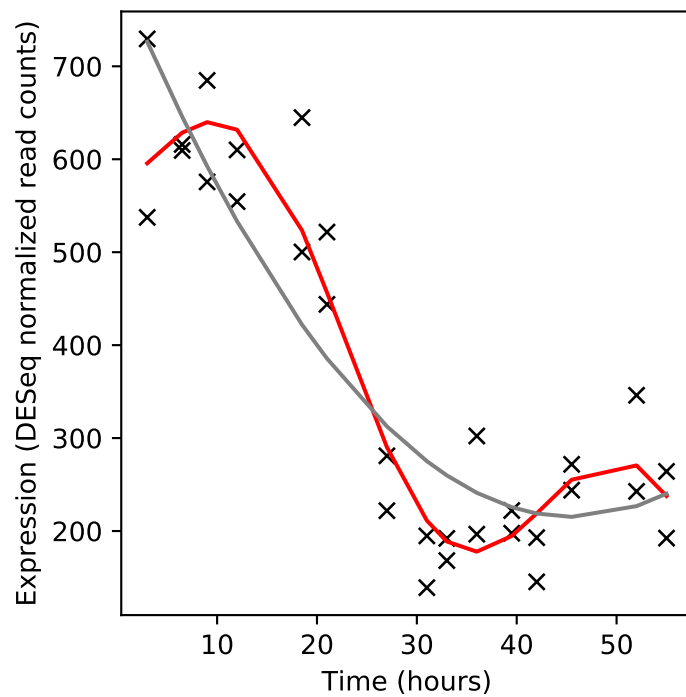
Rv3133c/devR



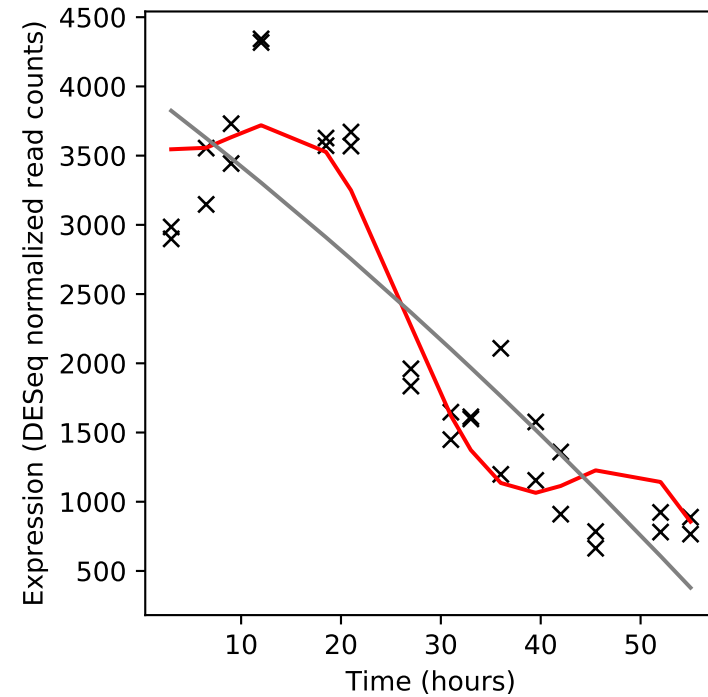
Rv3134c/-



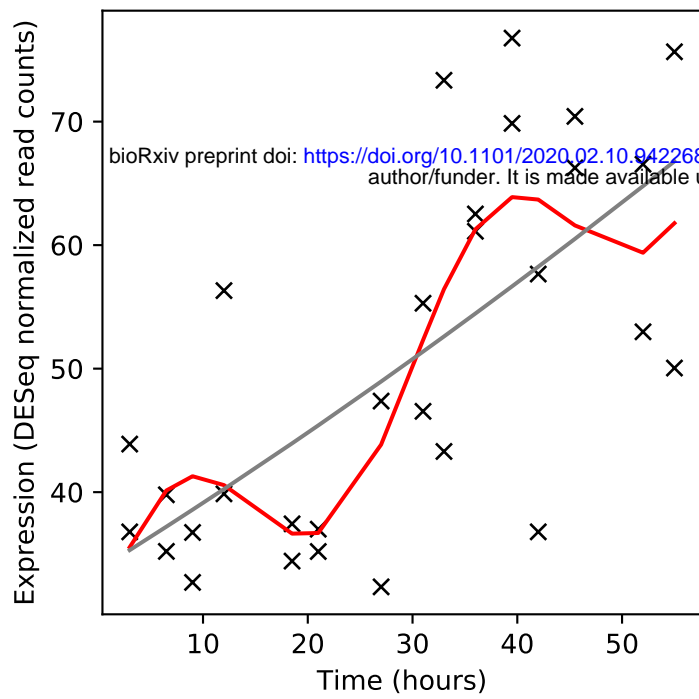
Rv3135/PPE50



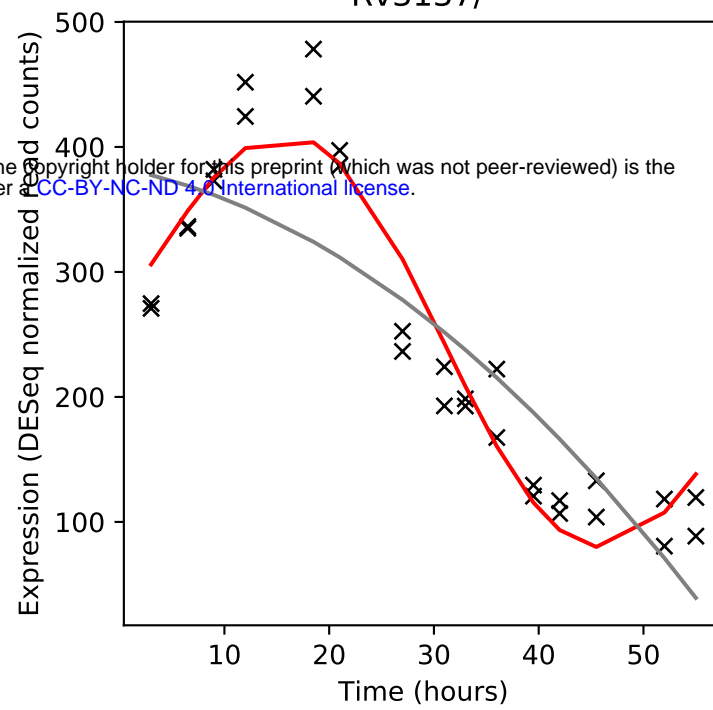
Rv3136/PPE51



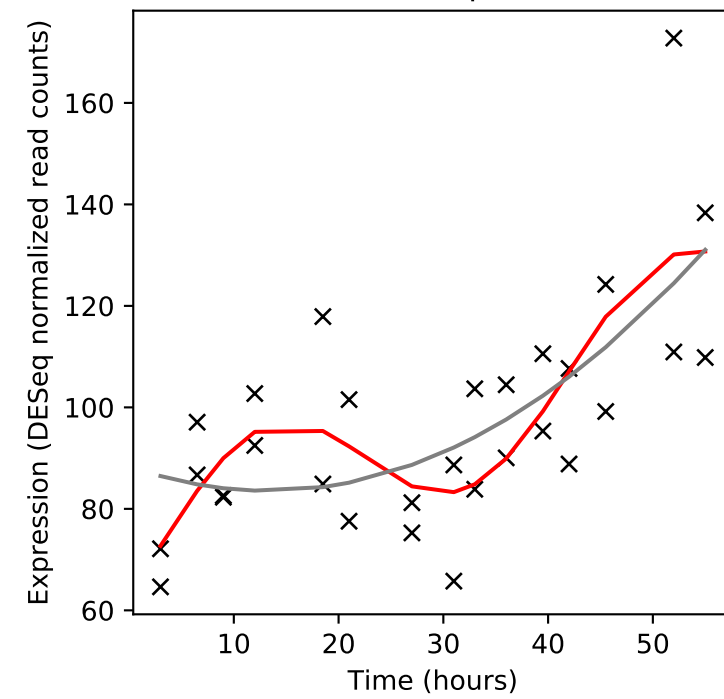
Rv3136A/-



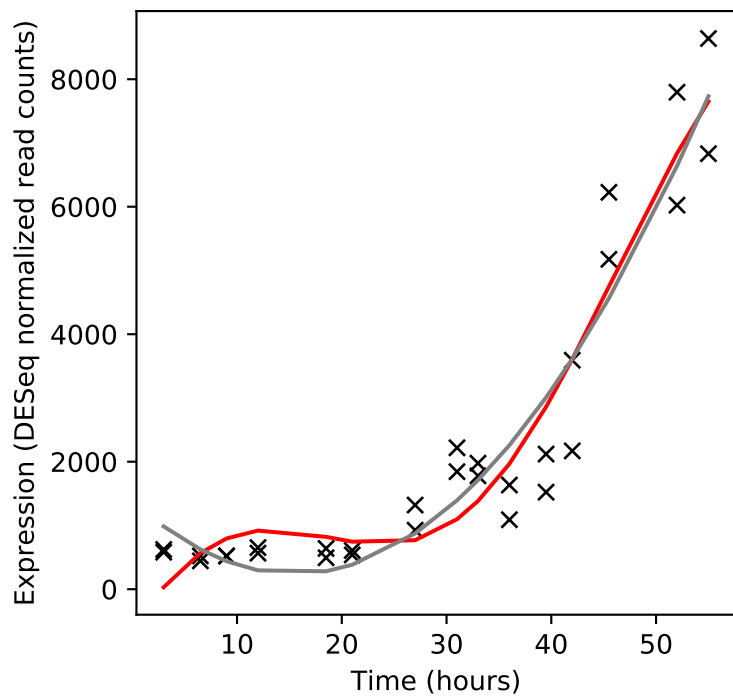
Rv3137/-



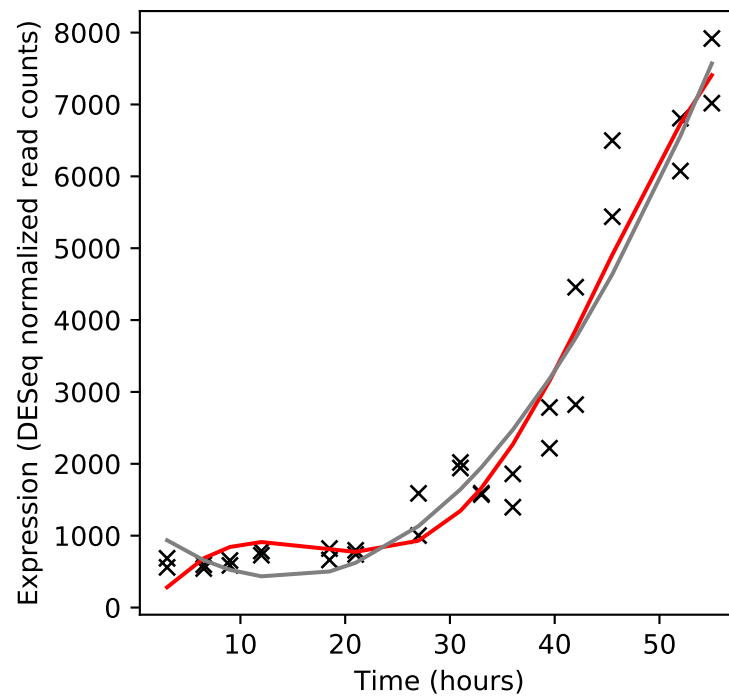
Rv3138/pflA



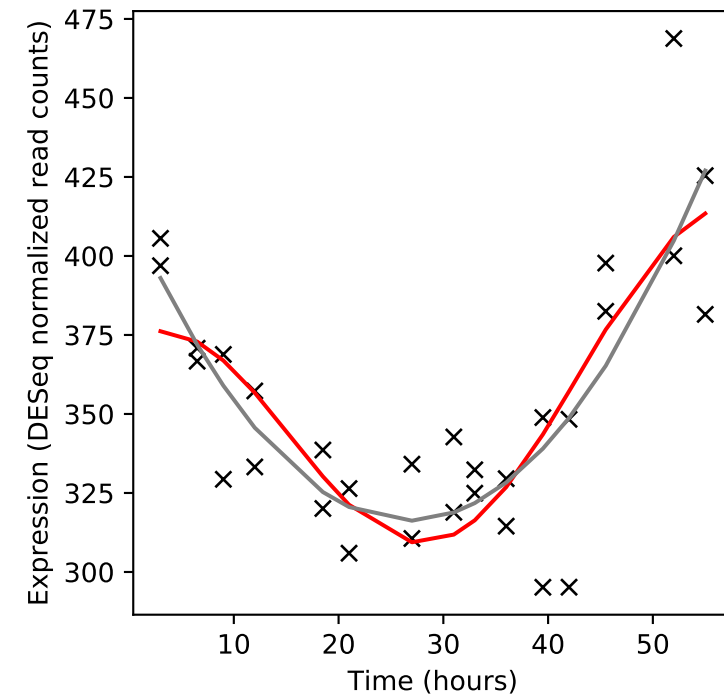
Rv3139/fadE24



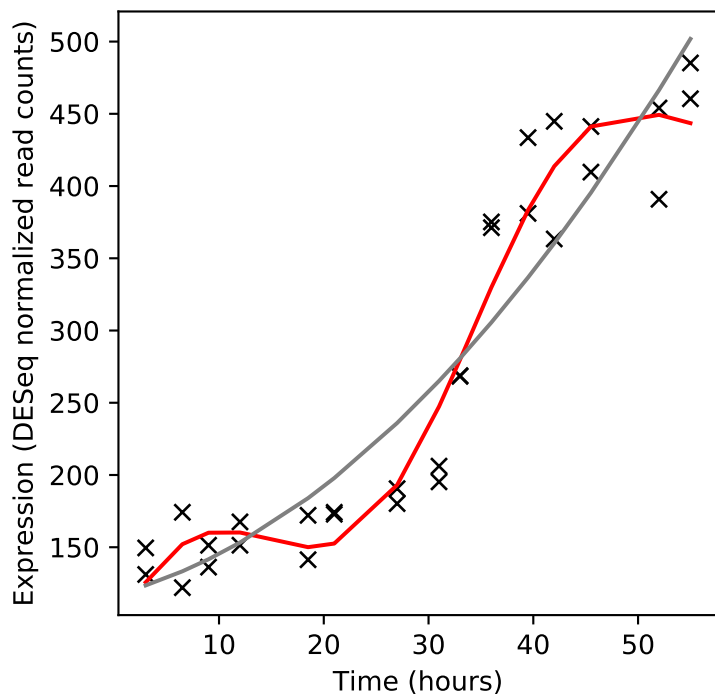
Rv3140/fadE23



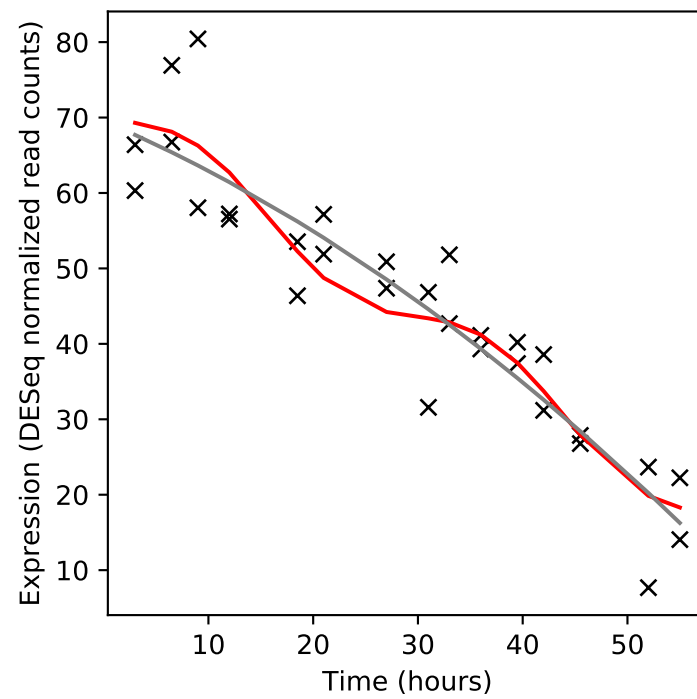
Rv3141/fadB4



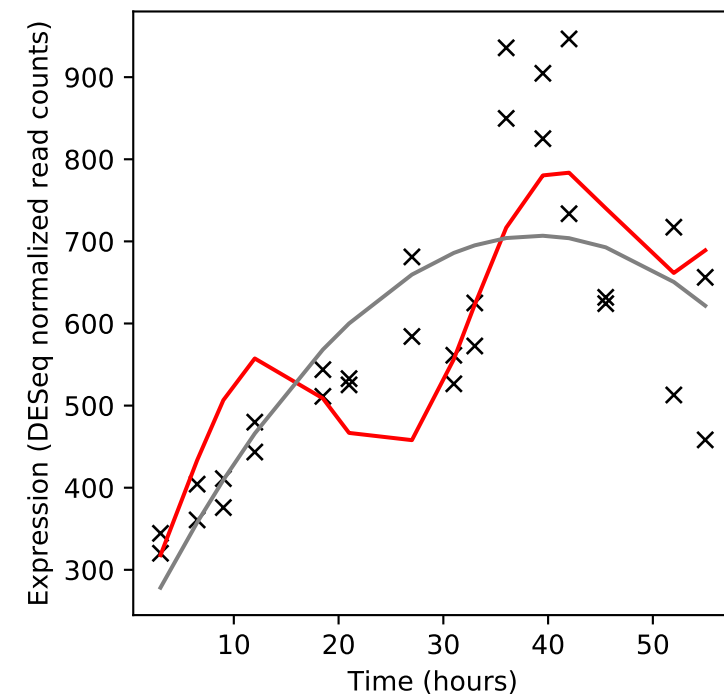
Rv3142c/-



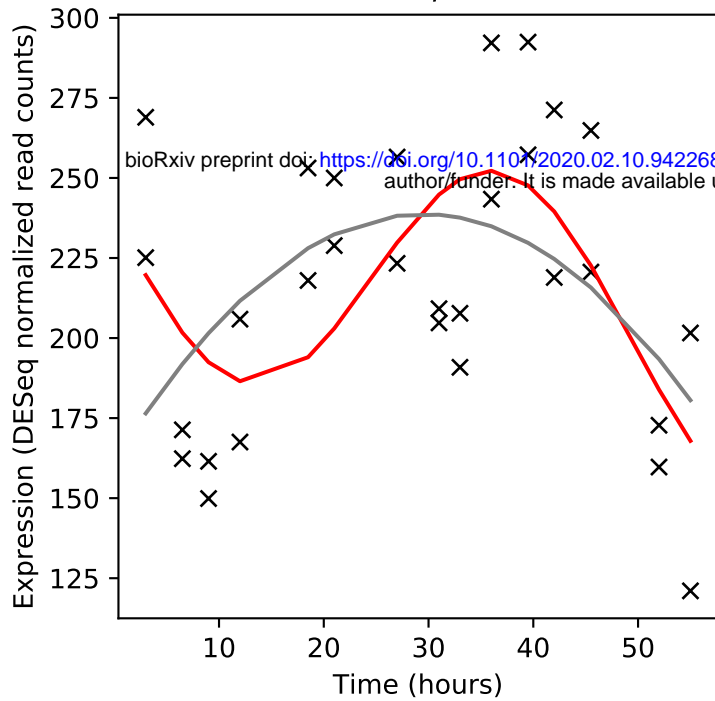
Rv3143/-



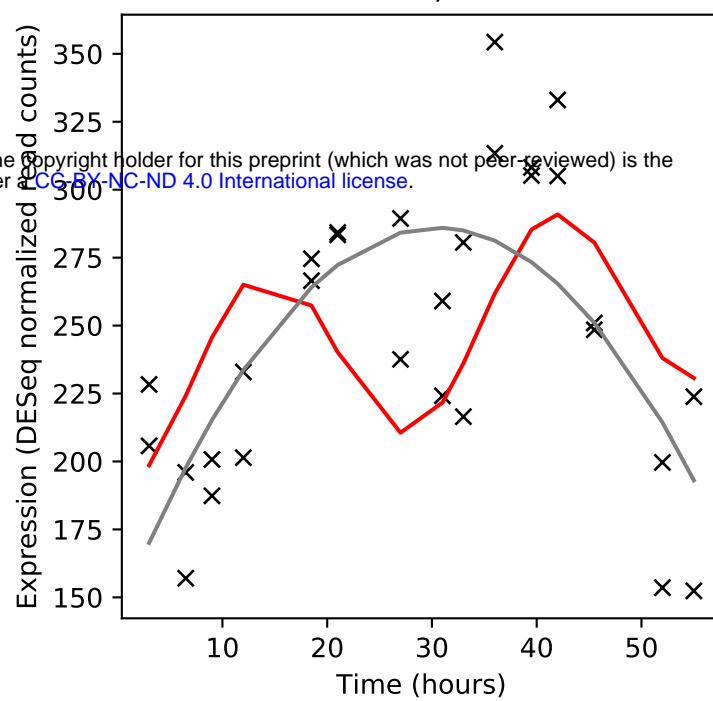
Rv3144c/PPE52



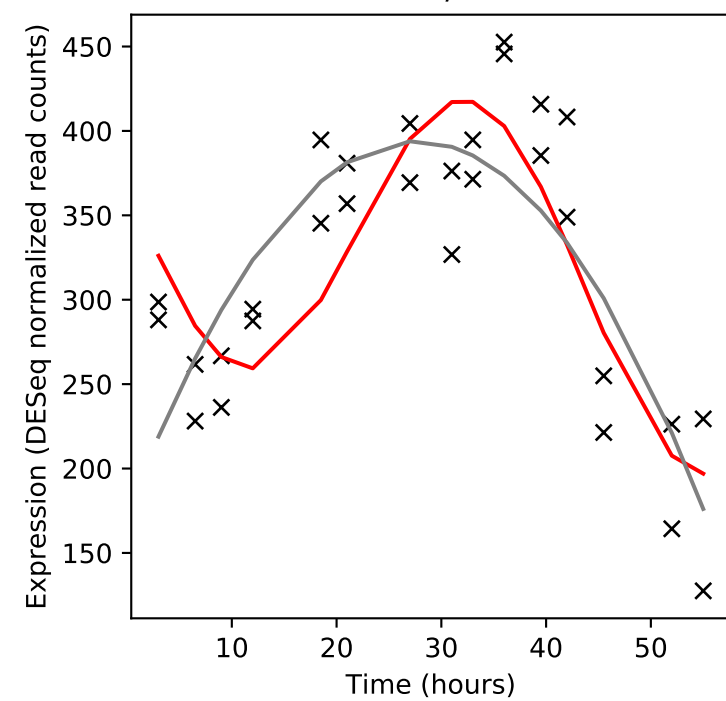
Rv3145/nuoA



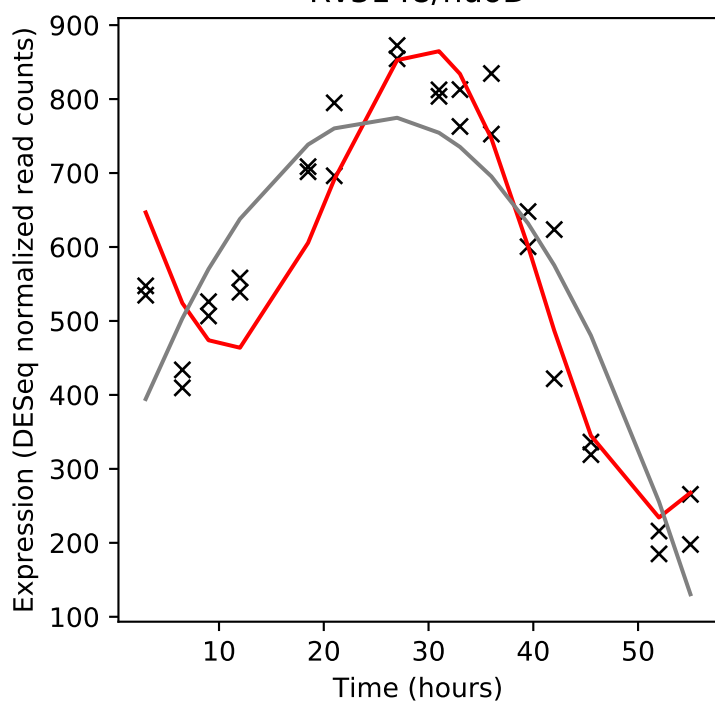
Rv3146/nuoB



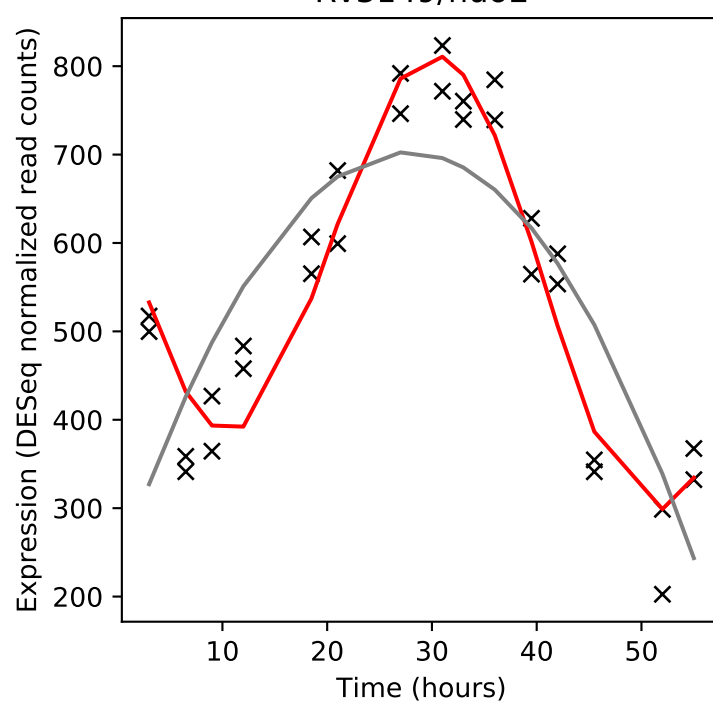
Rv3147/nuoC



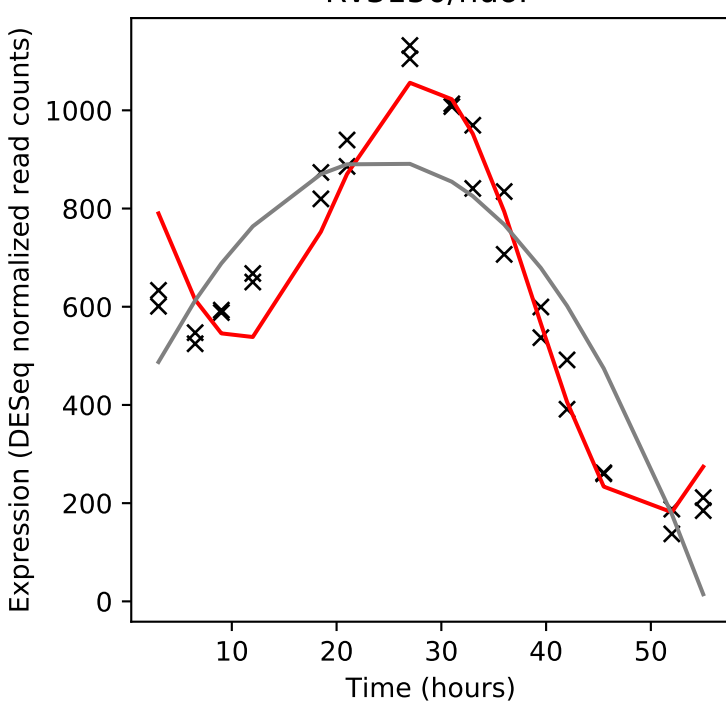
Rv3148/nuoD



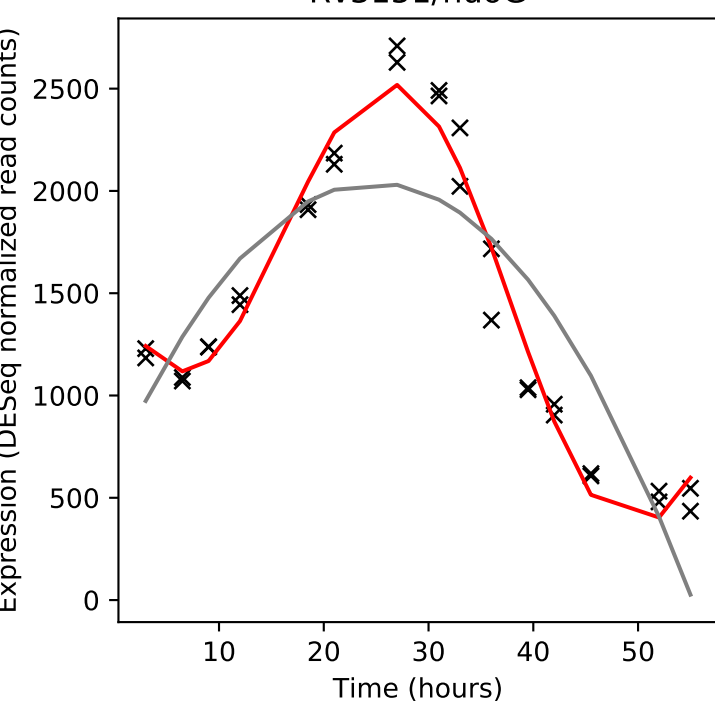
Rv3149/nuoE



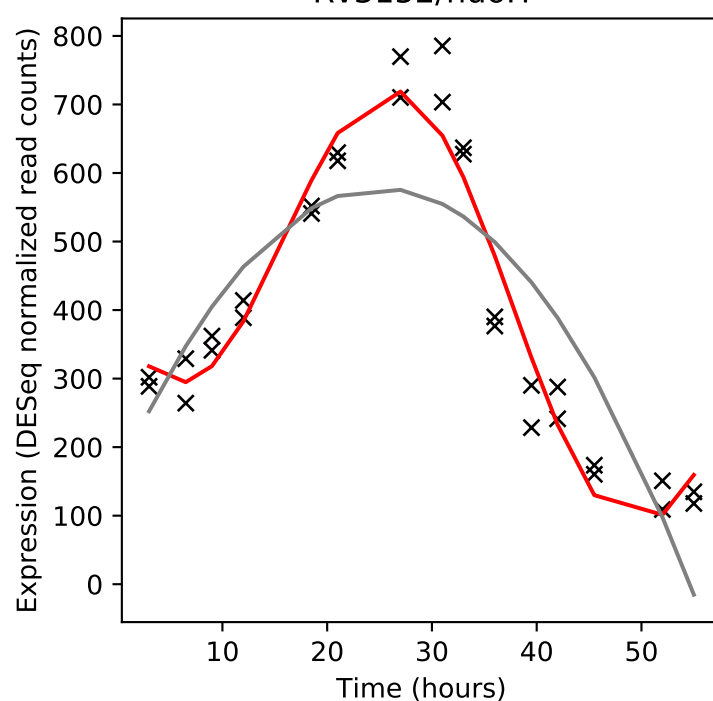
Rv3150/nuoF



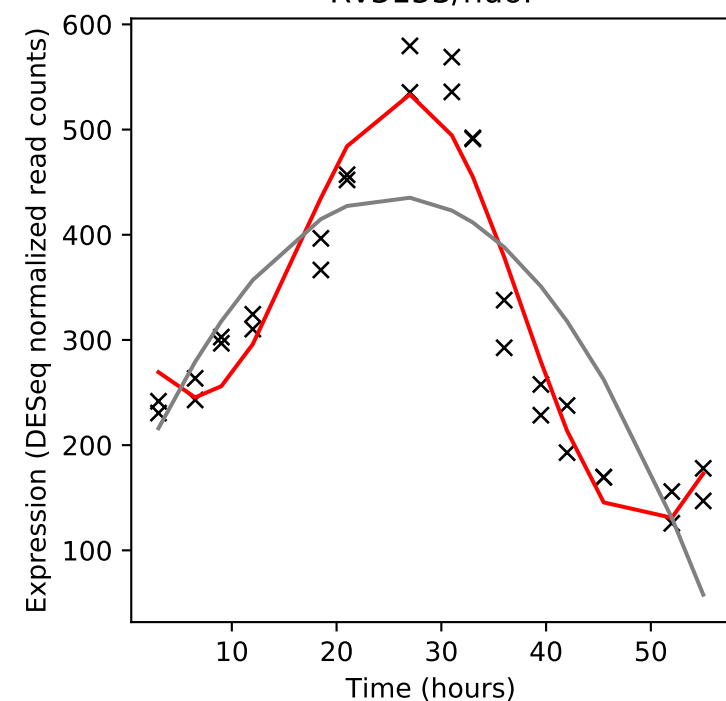
Rv3151/nuoG



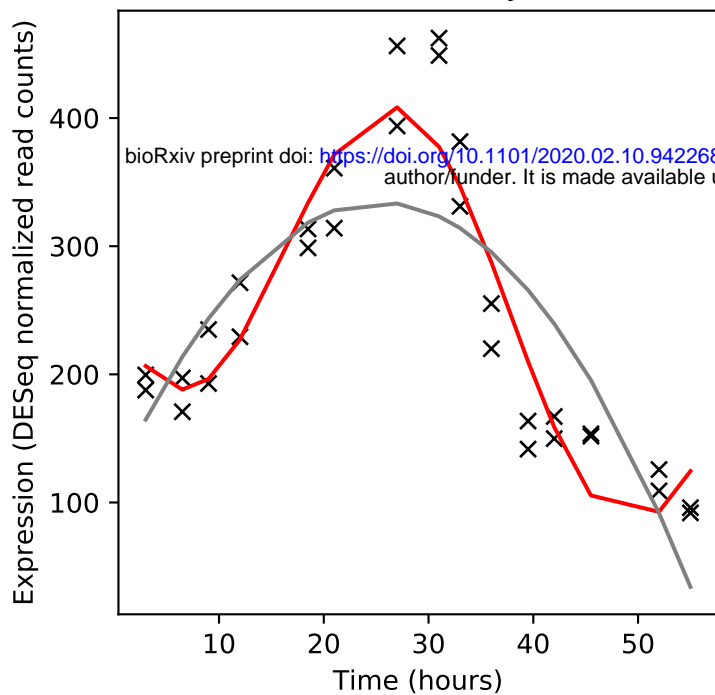
Rv3152/nuoH



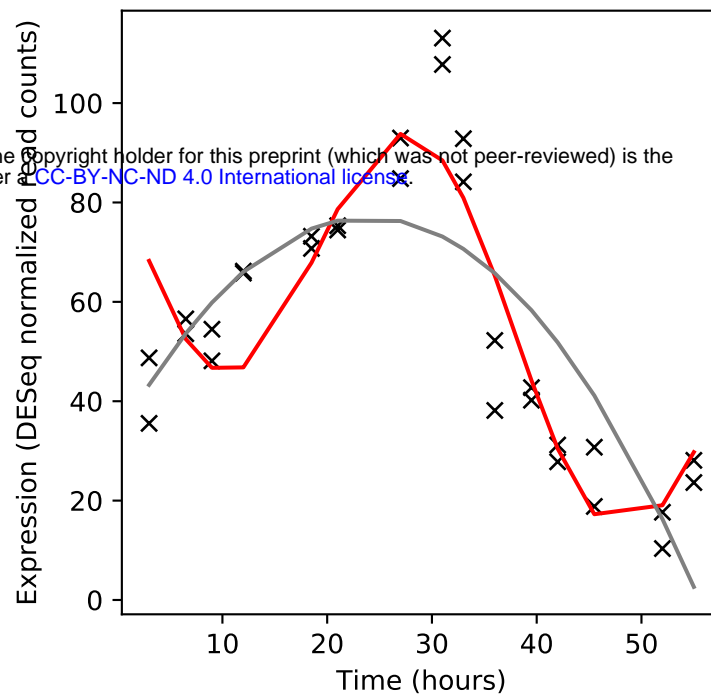
Rv3153/nuoI



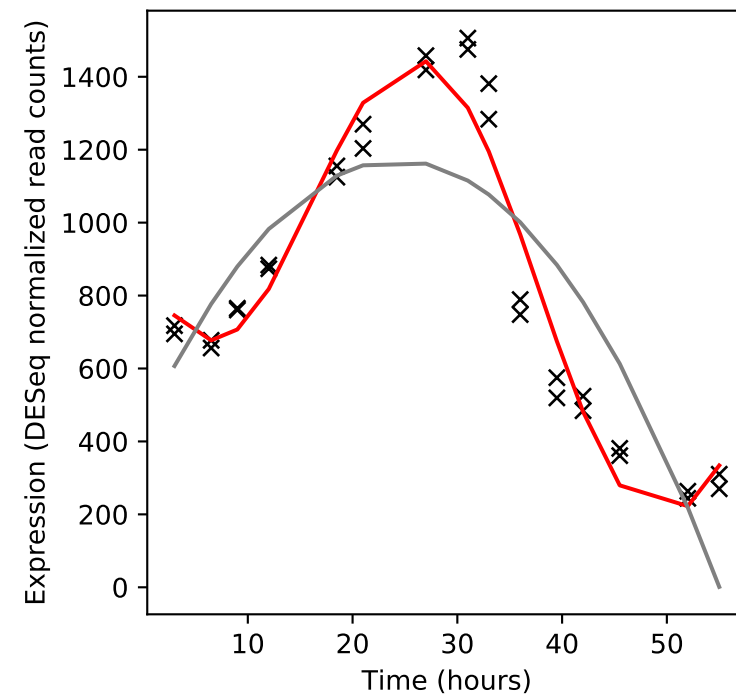
Rv3154/nuoJ



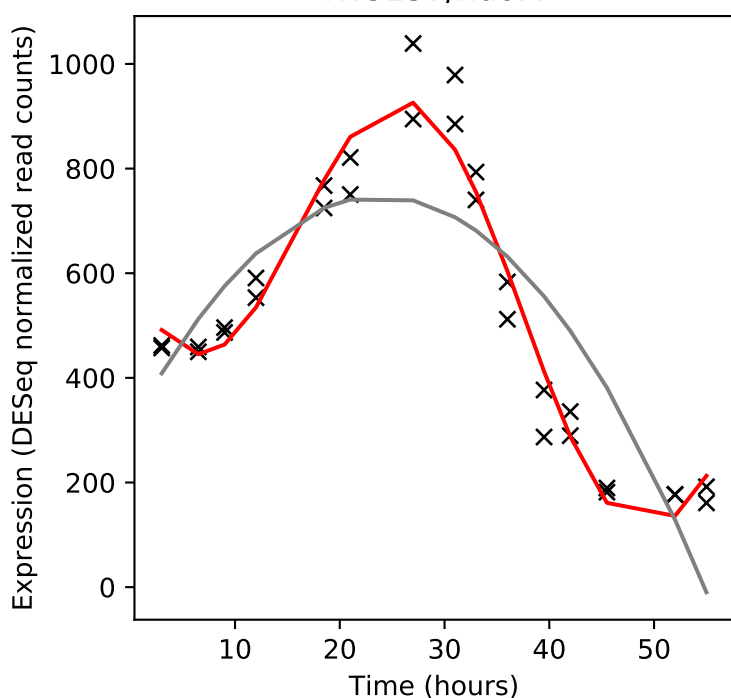
Rv3155/nuoK



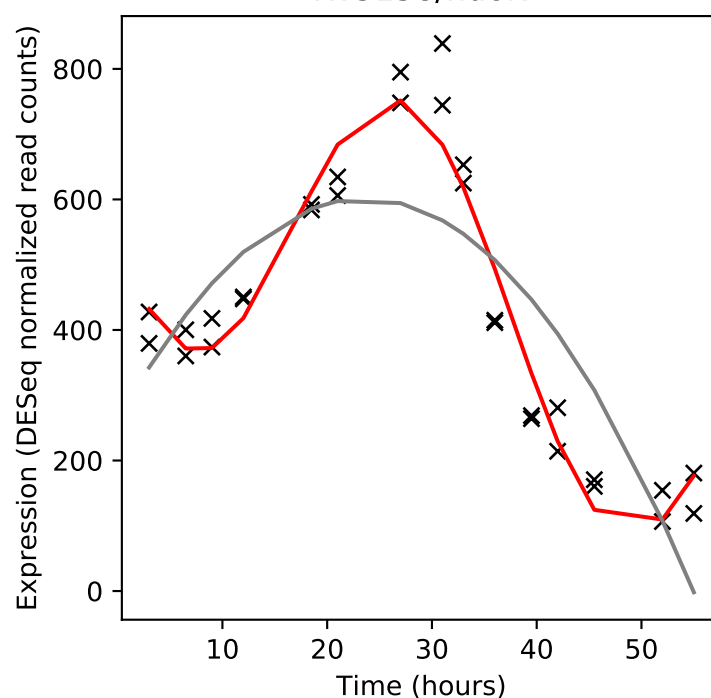
Rv3156/nuoL



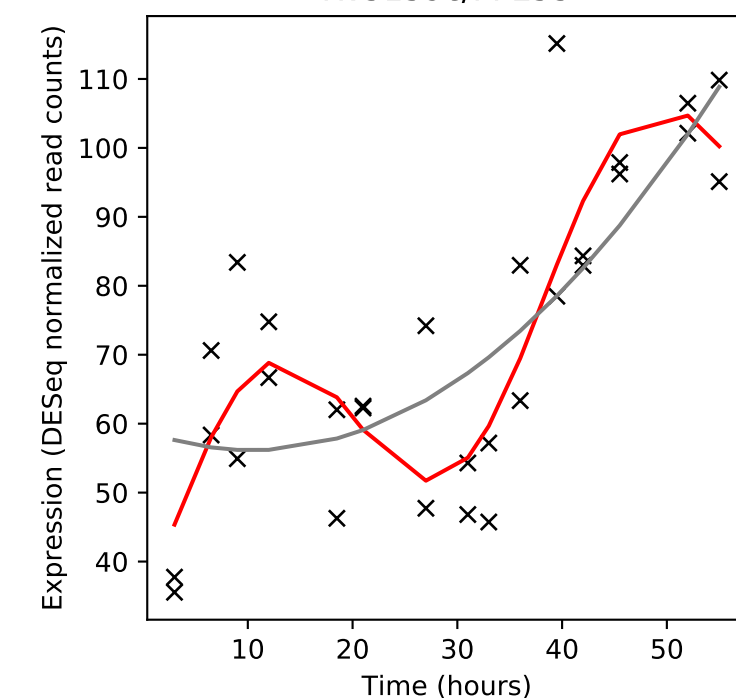
Rv3157/nuoM



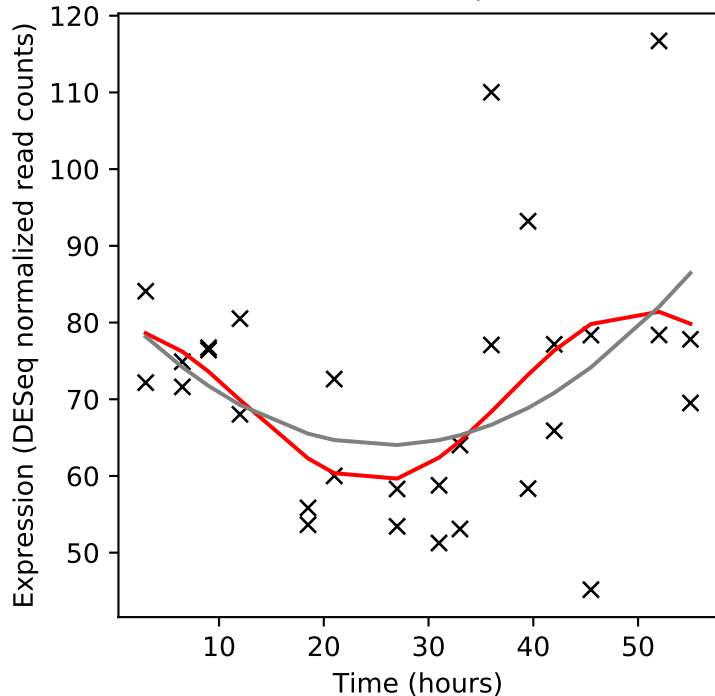
Rv3158/nuoN



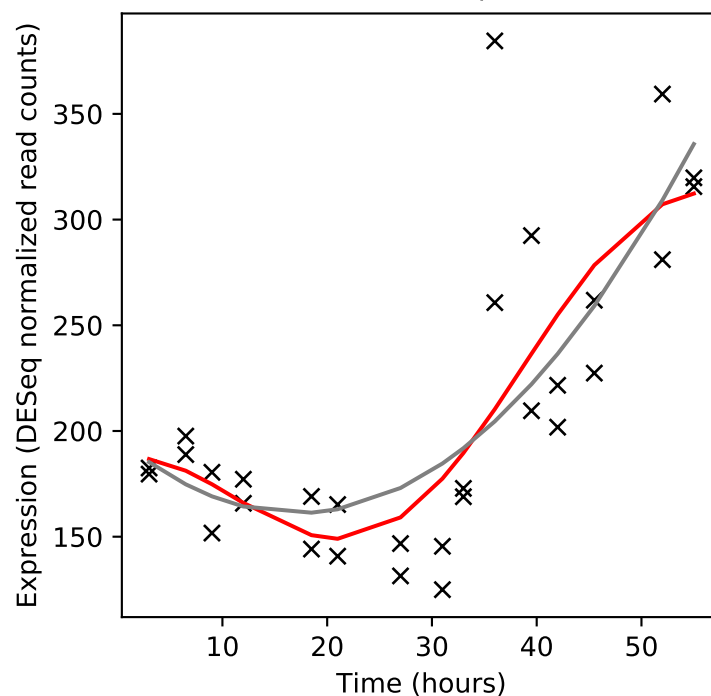
Rv3159c/PPE53



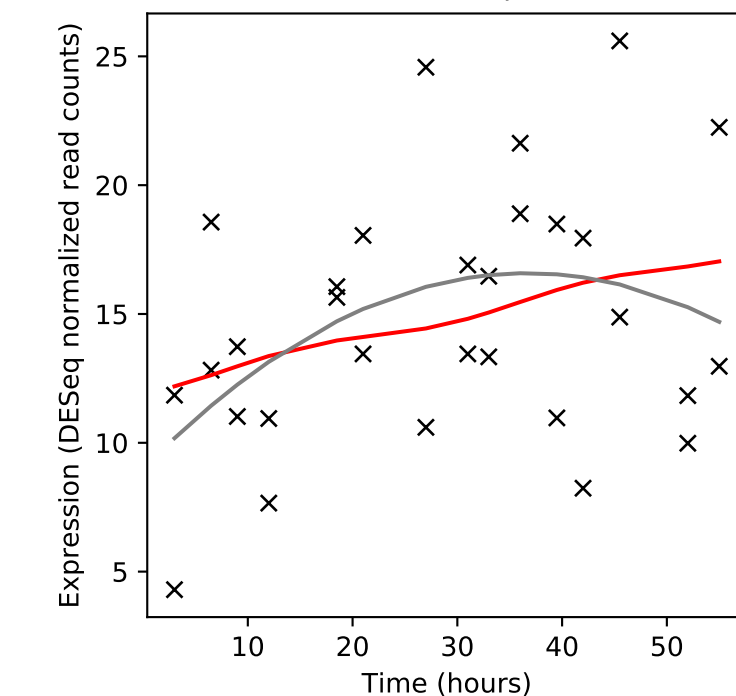
Rv3160c/-



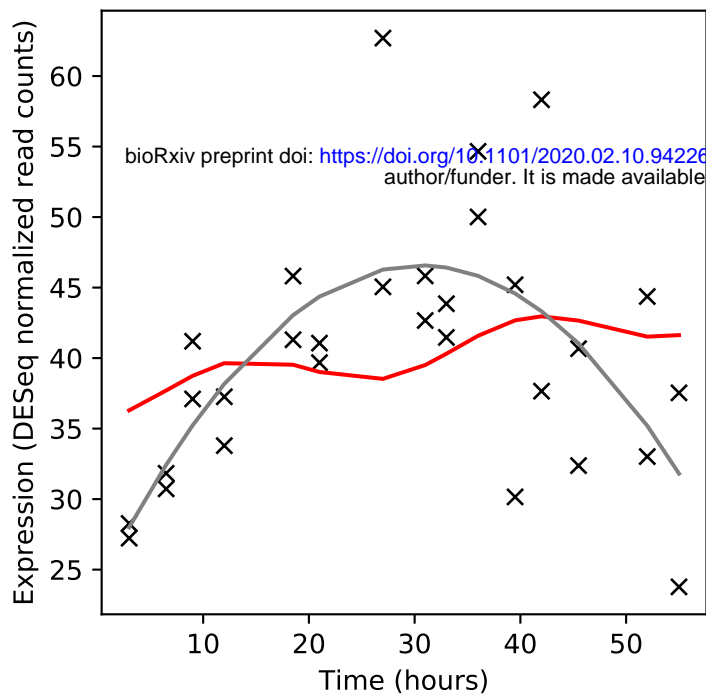
Rv3161c/-



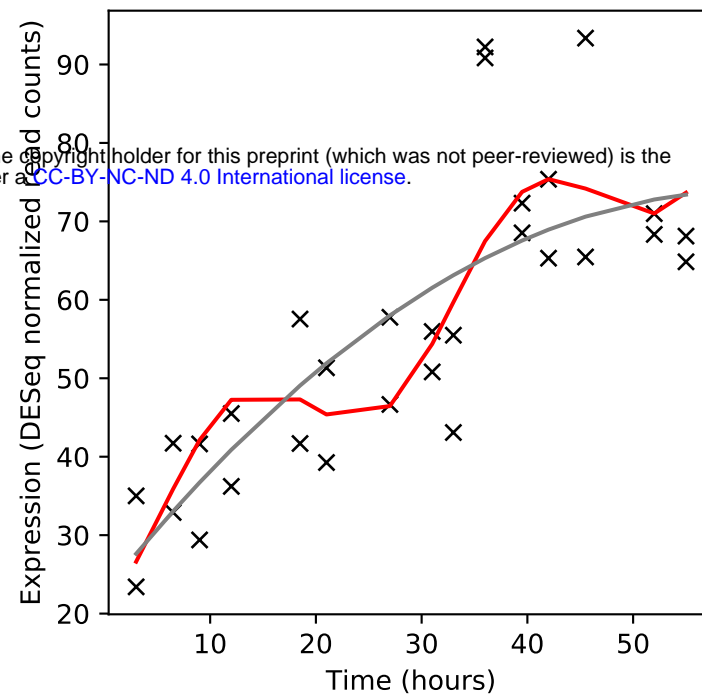
Rv3162c/-



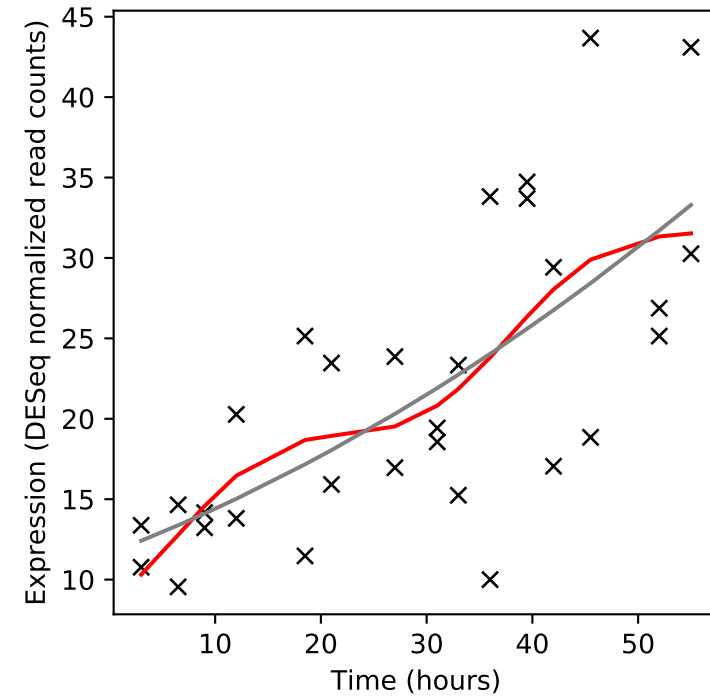
Rv3163c/-



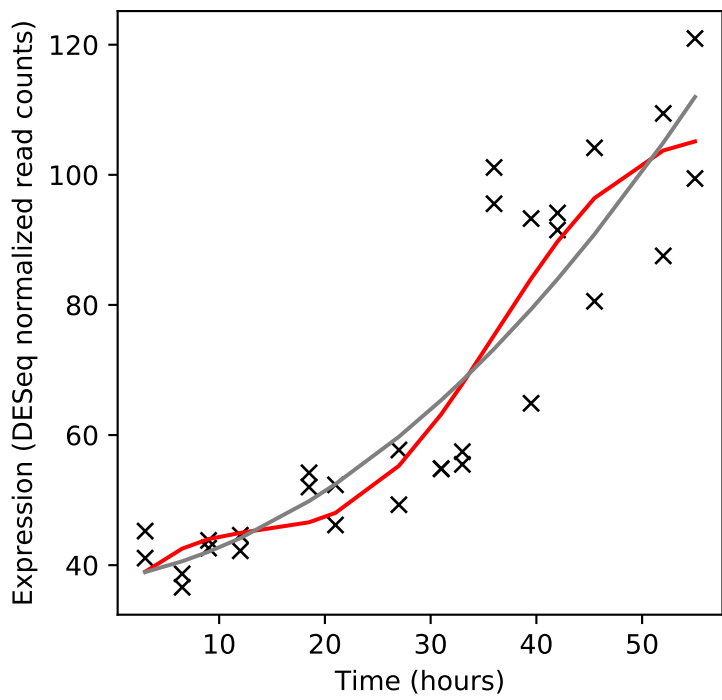
Rv3164c/moxR3



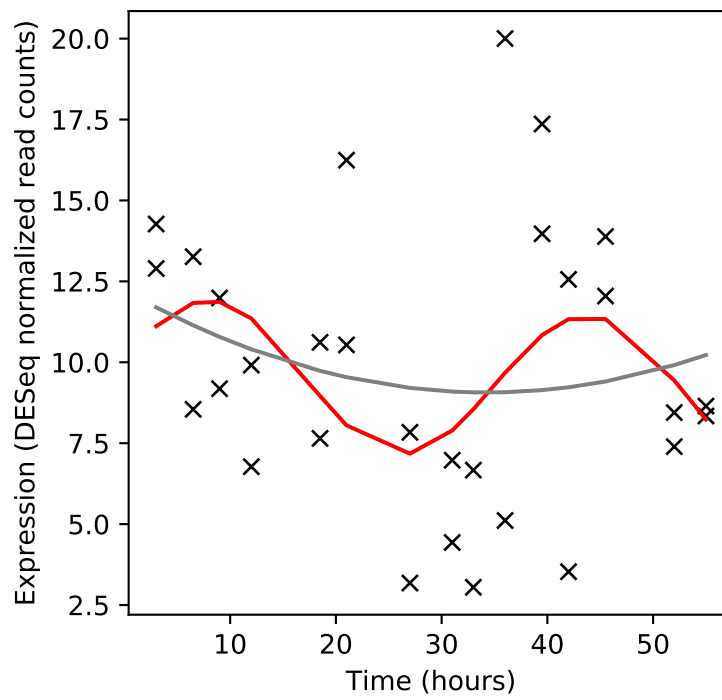
Rv3165c/-



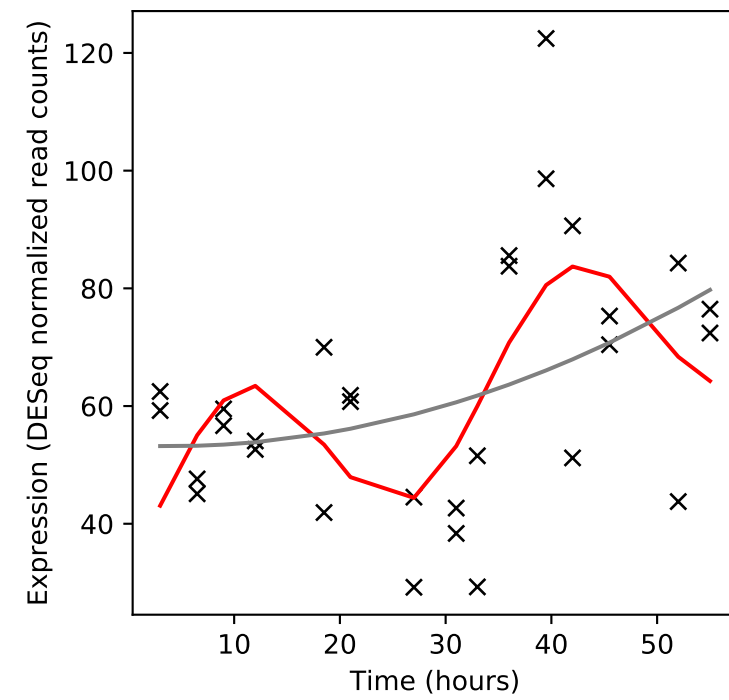
Rv3166c/-



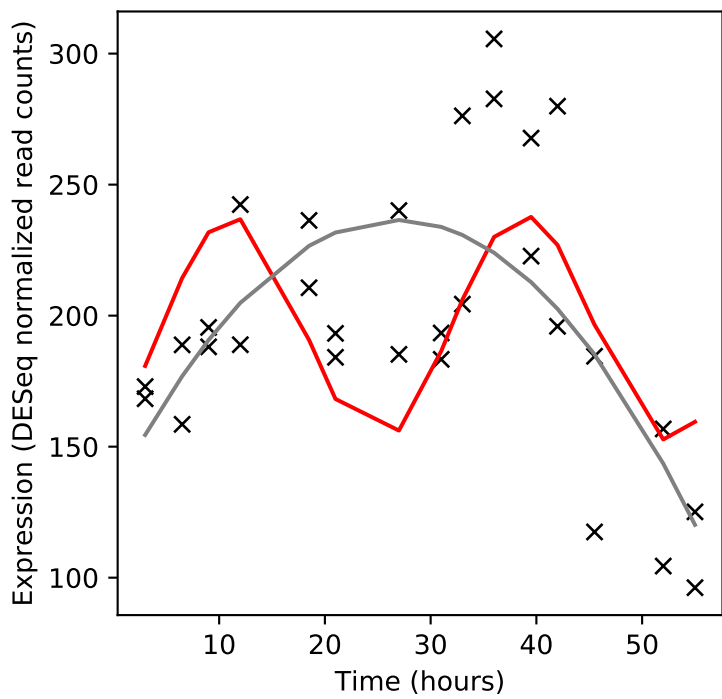
Rv3167c/-



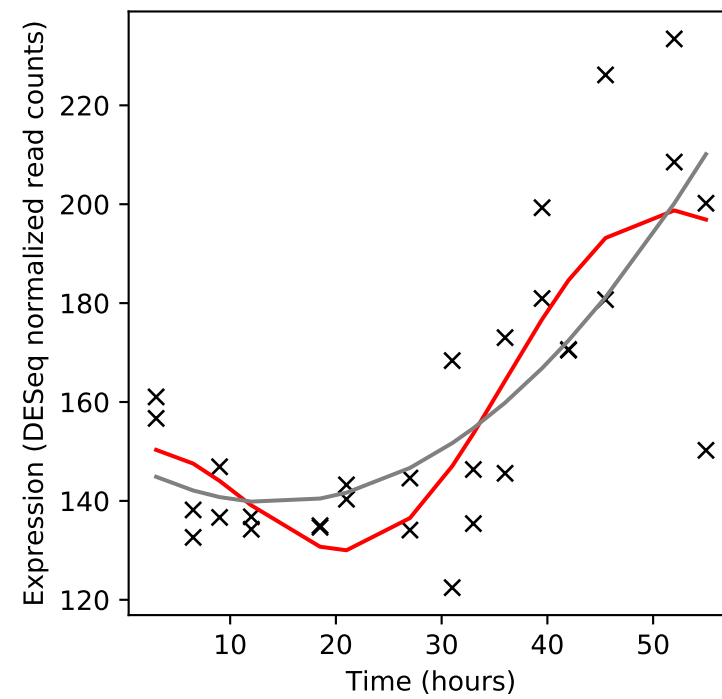
Rv3168/-



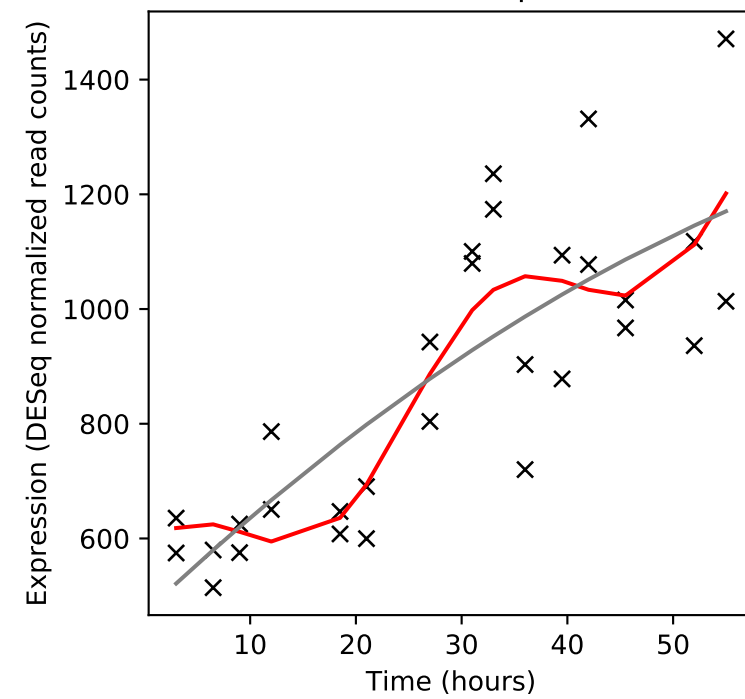
Rv3169/-



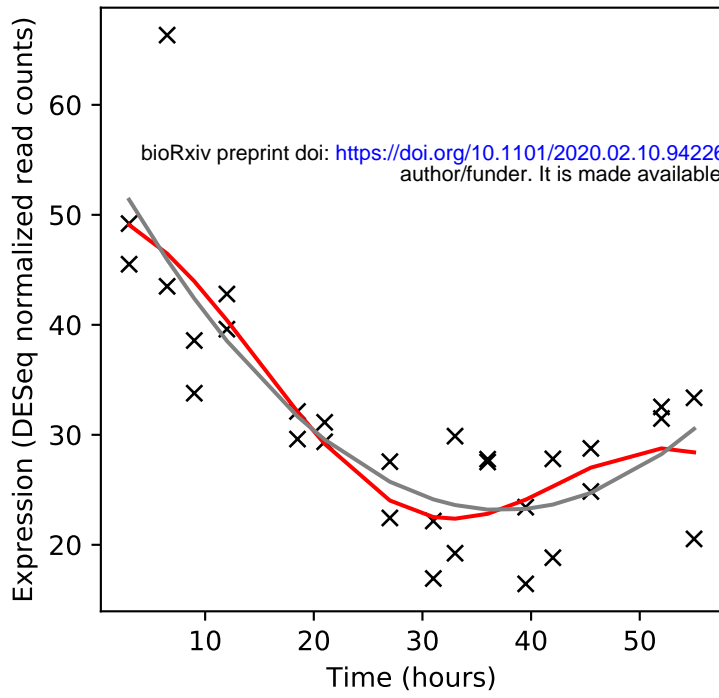
Rv3170/aofH



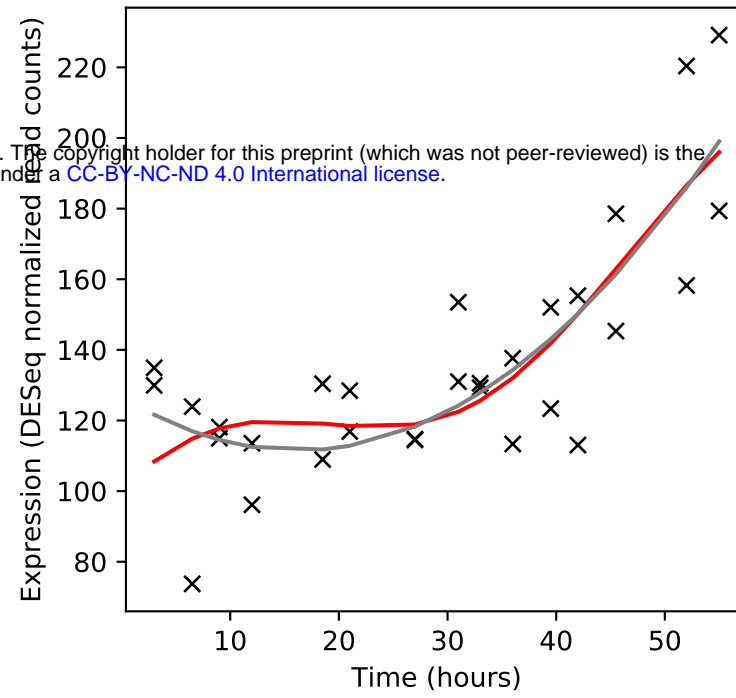
Rv3171c/hpx



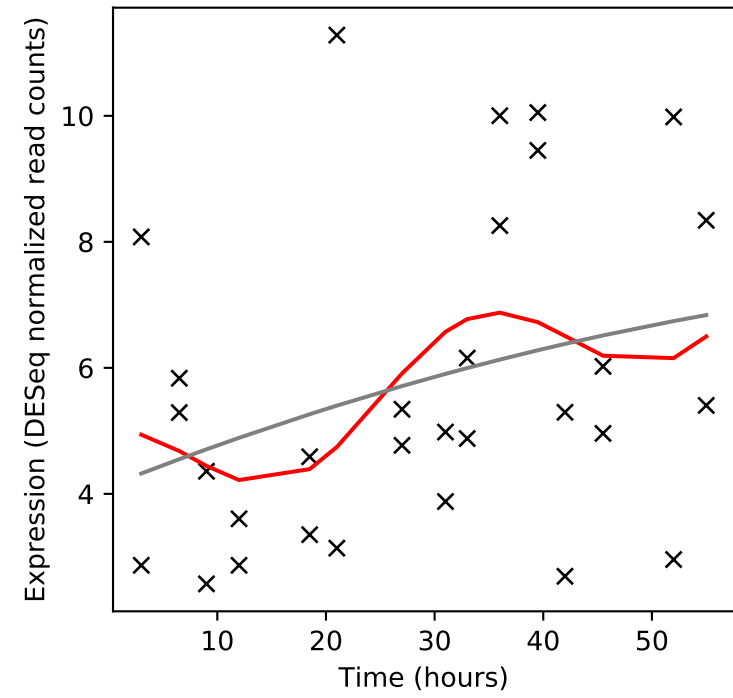
Rv3172c/-



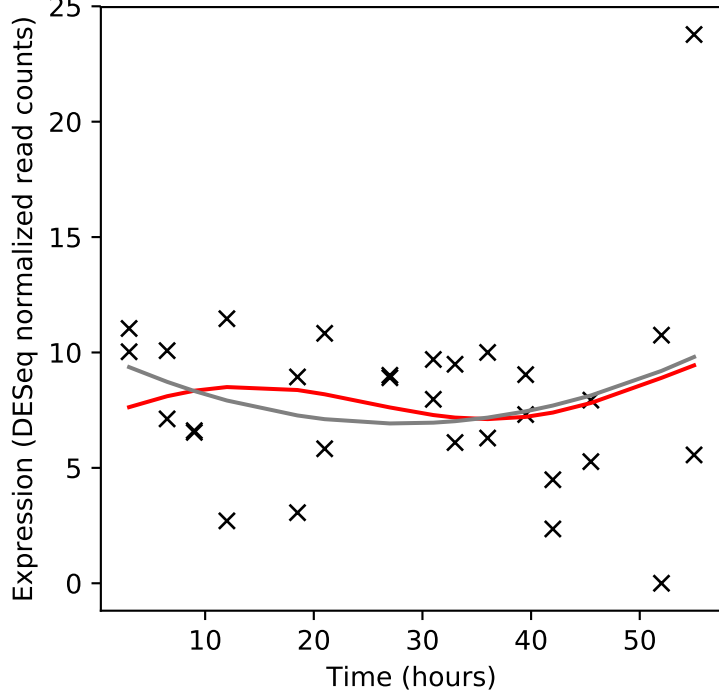
Rv3173c/-



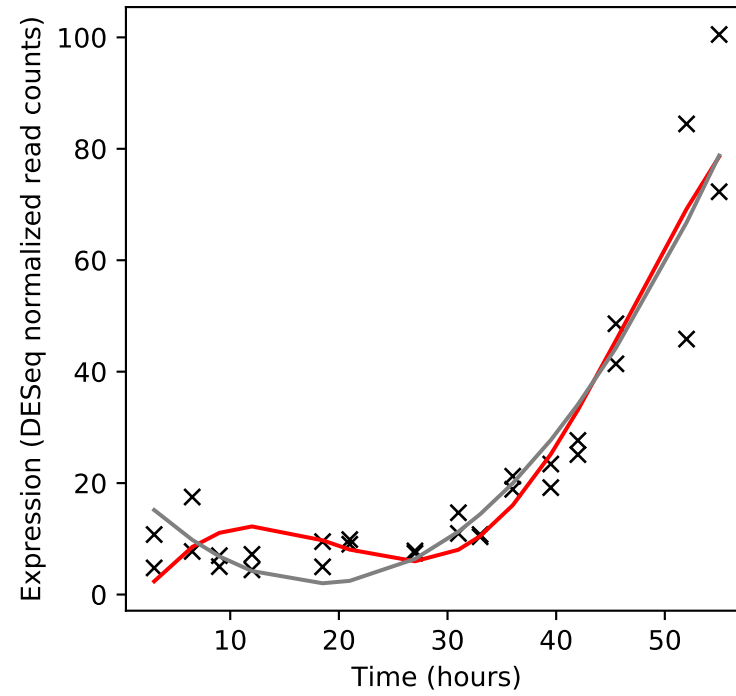
Rv3174/-



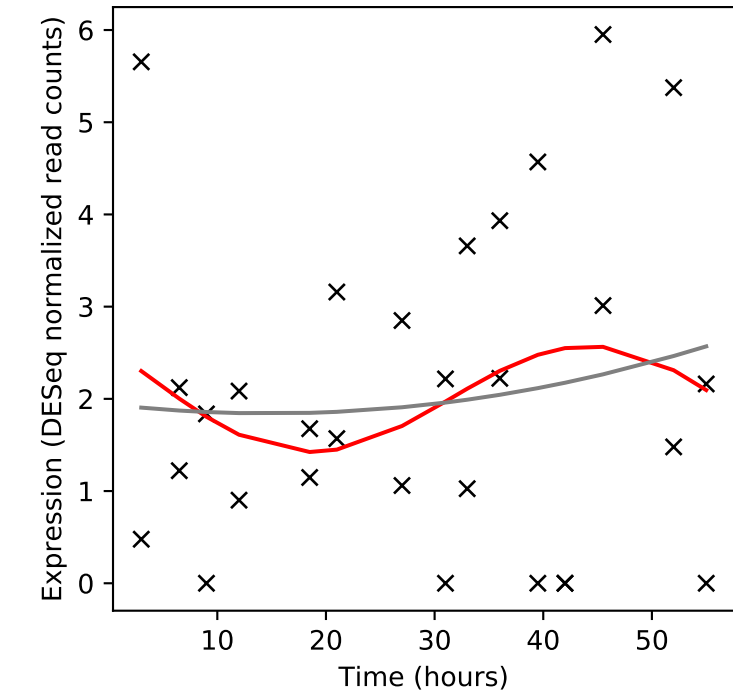
Rv3175/-



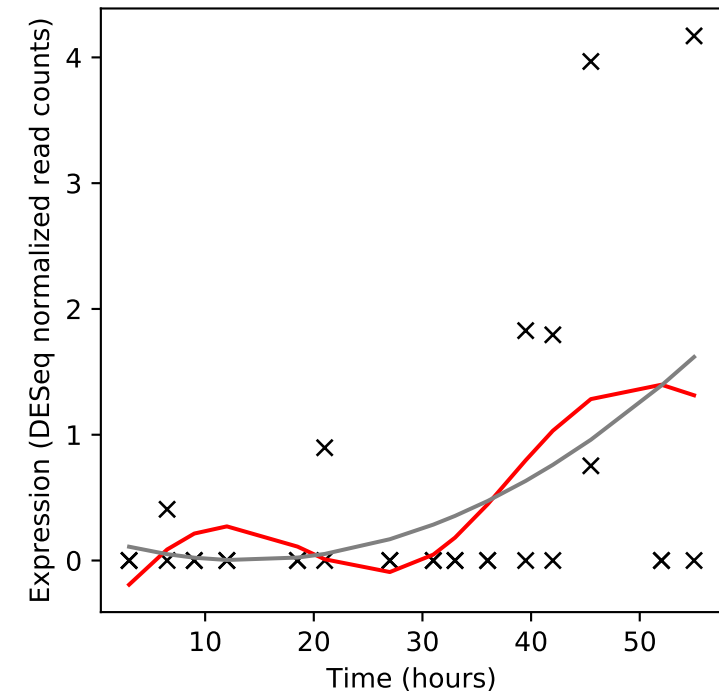
Rv3176c/mesT



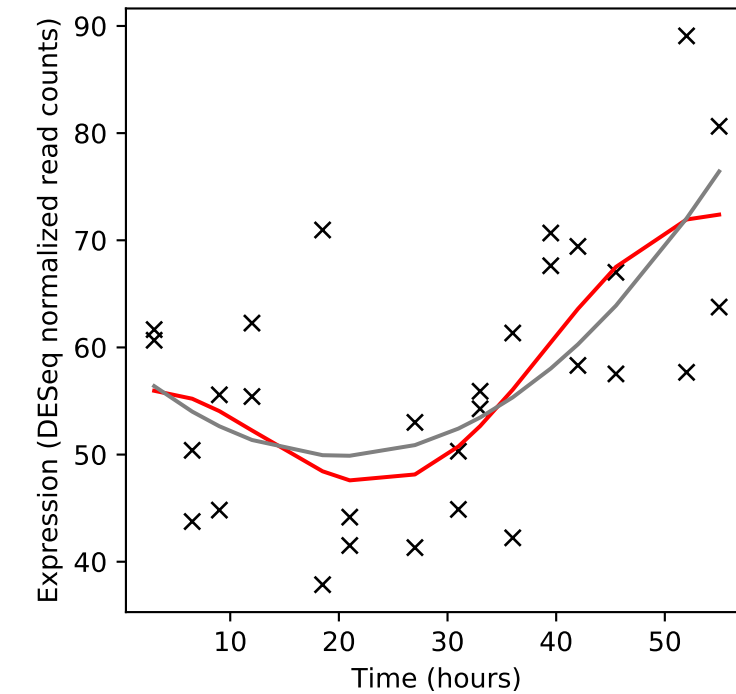
Rv3177/-



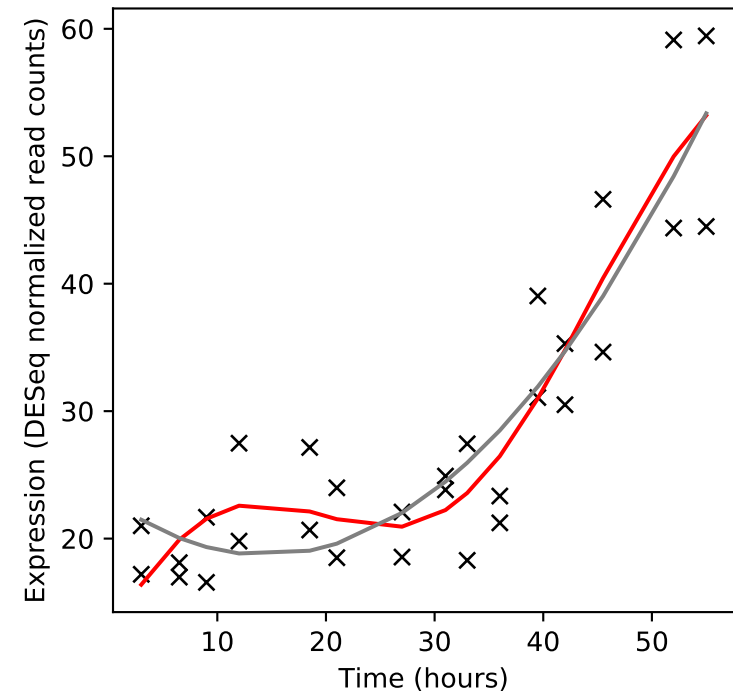
Rv3178/-



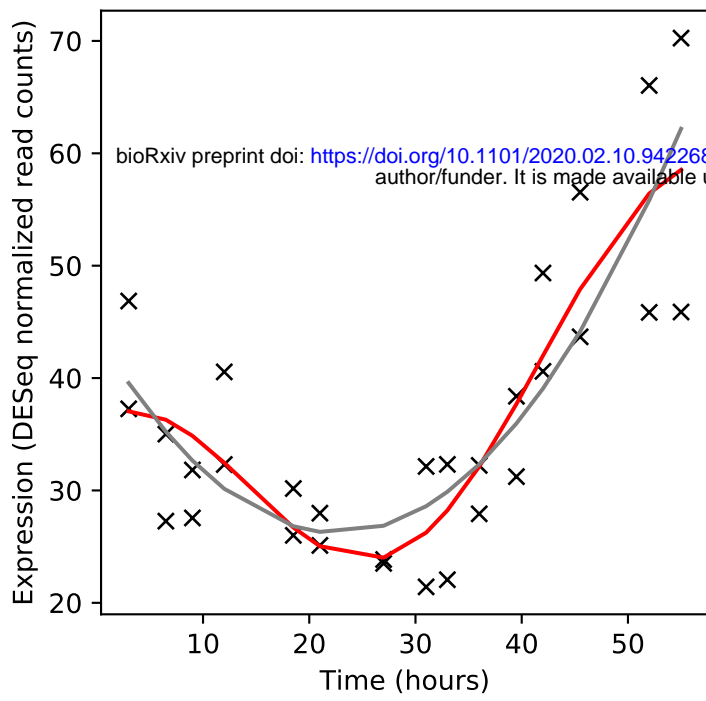
Rv3179/-



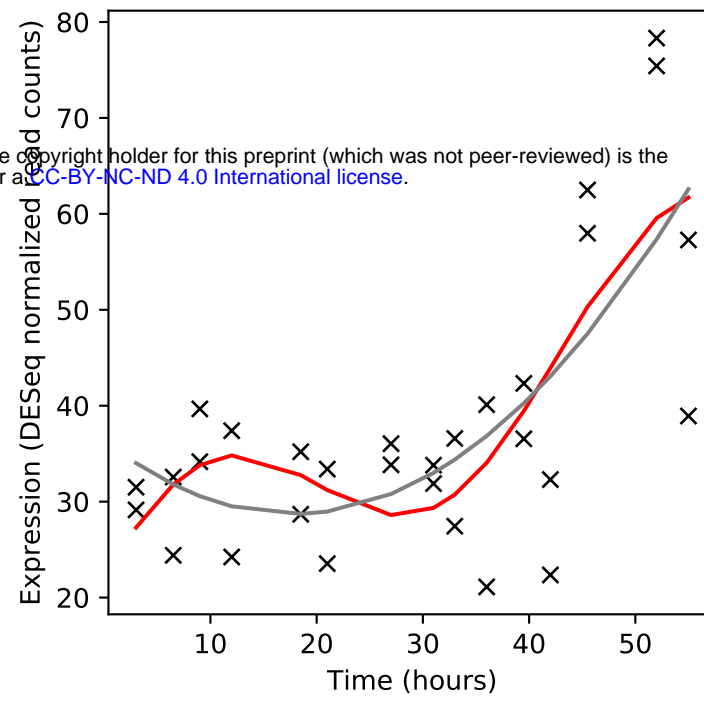
Rv3180c/-



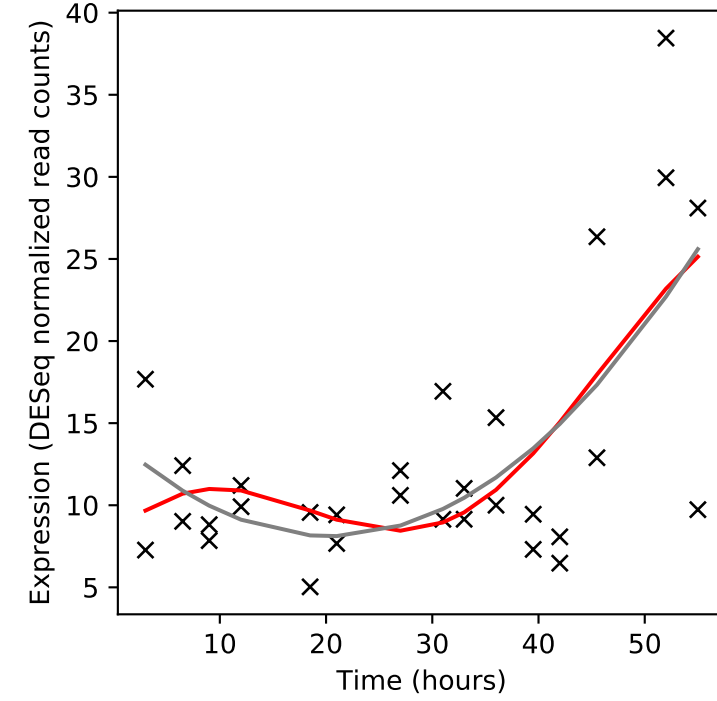
Rv3181c/-



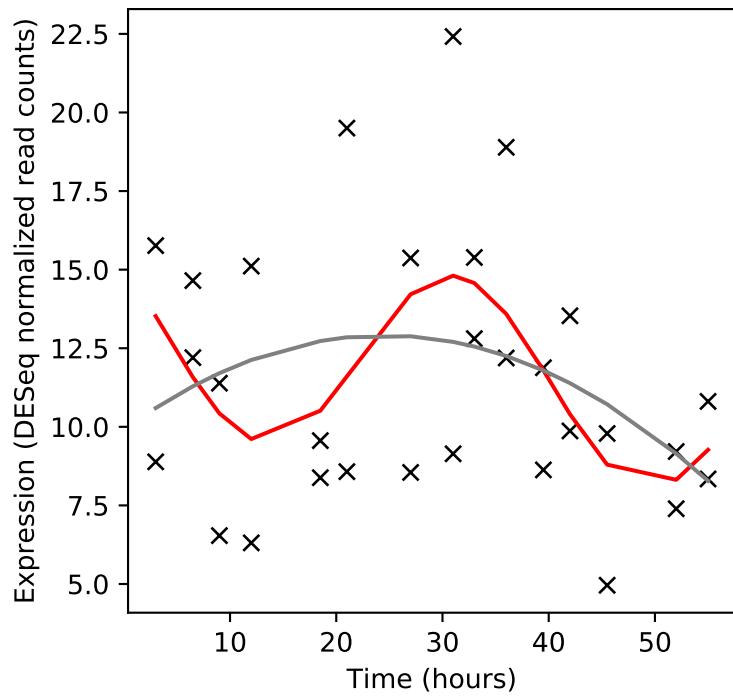
Rv3182/-



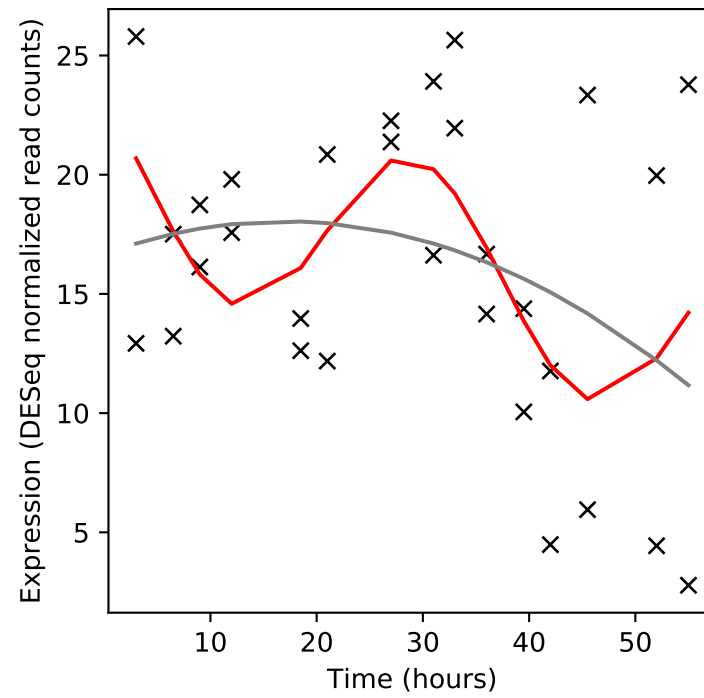
Rv3183/-



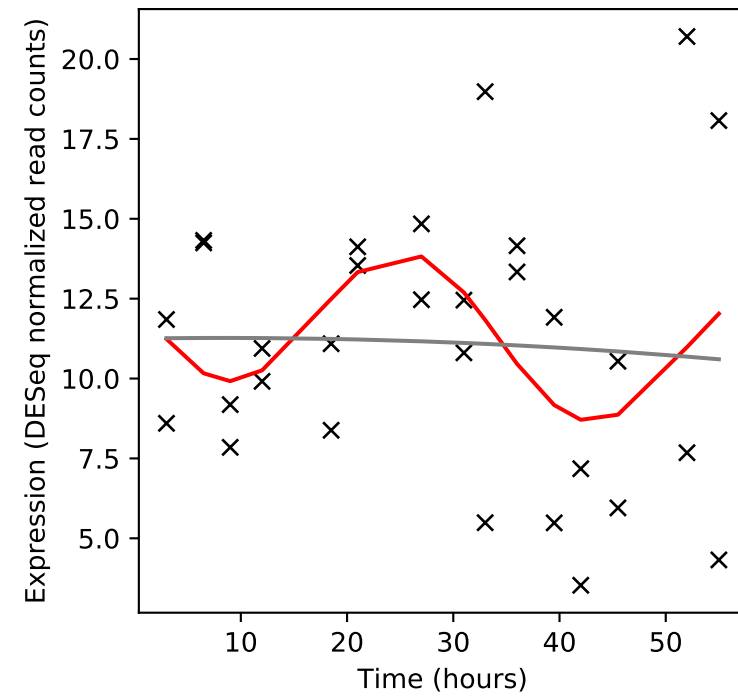
Rv3184/-



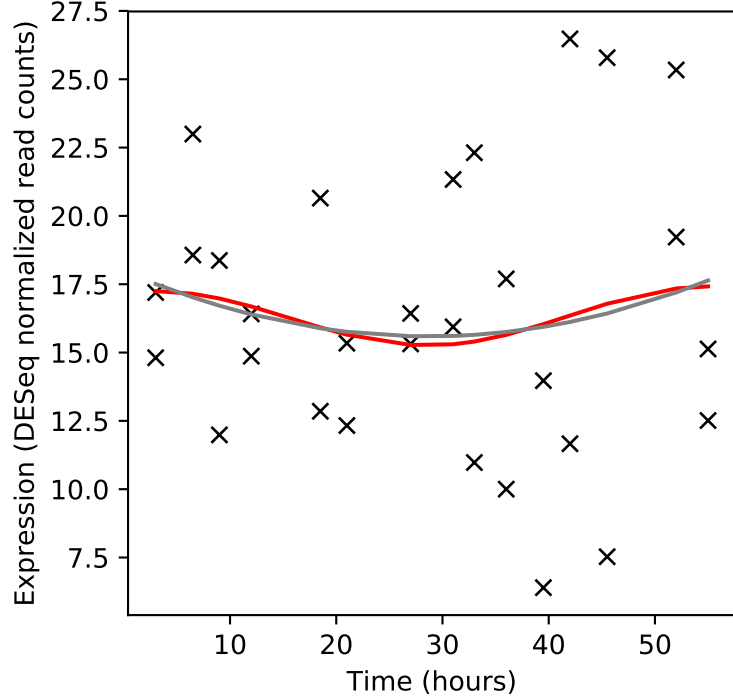
Rv3185/-



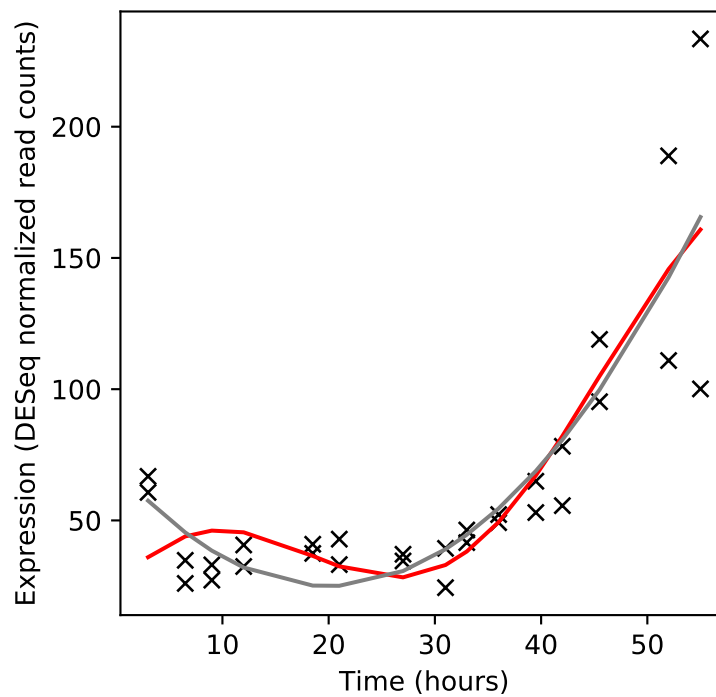
Rv3186/-



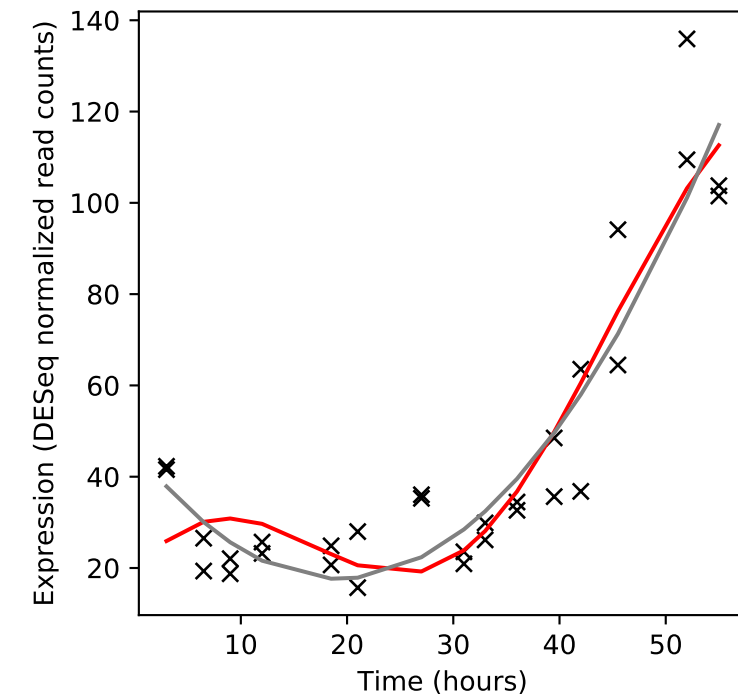
Rv3187/-



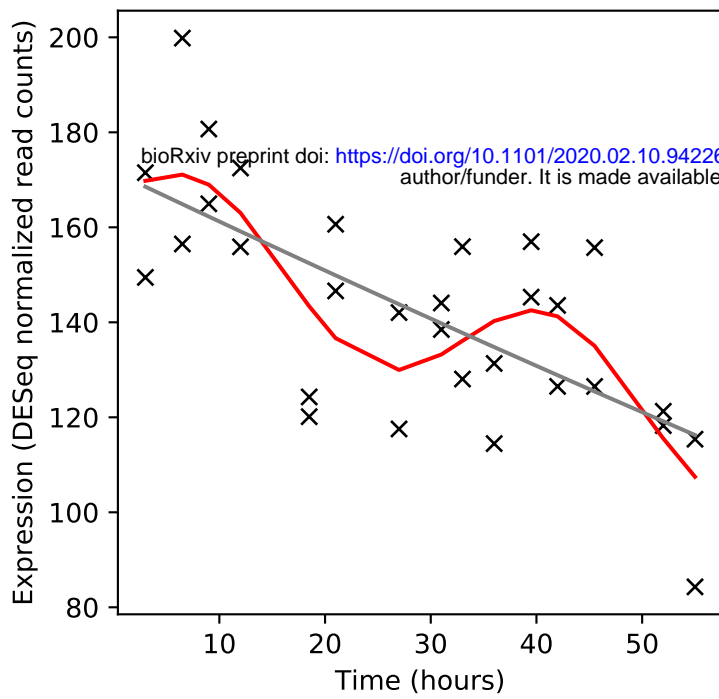
Rv3188/-



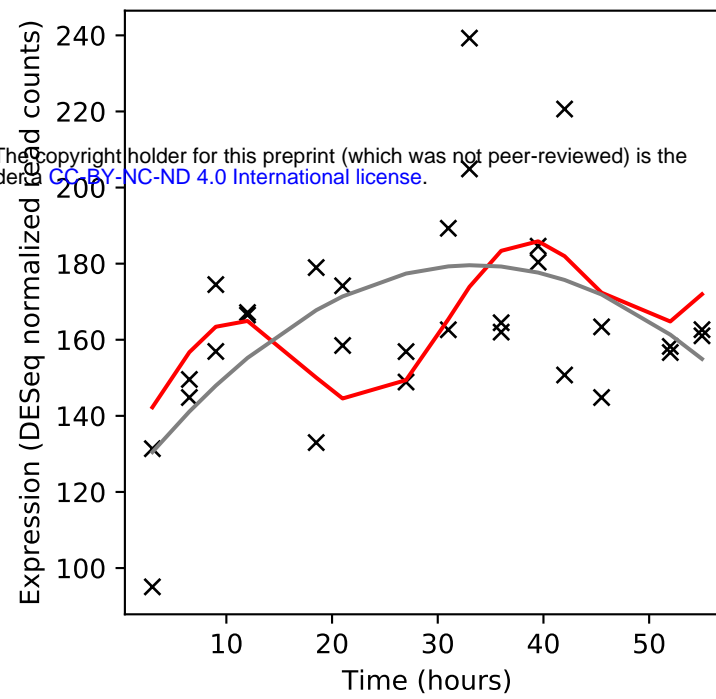
Rv3189/-



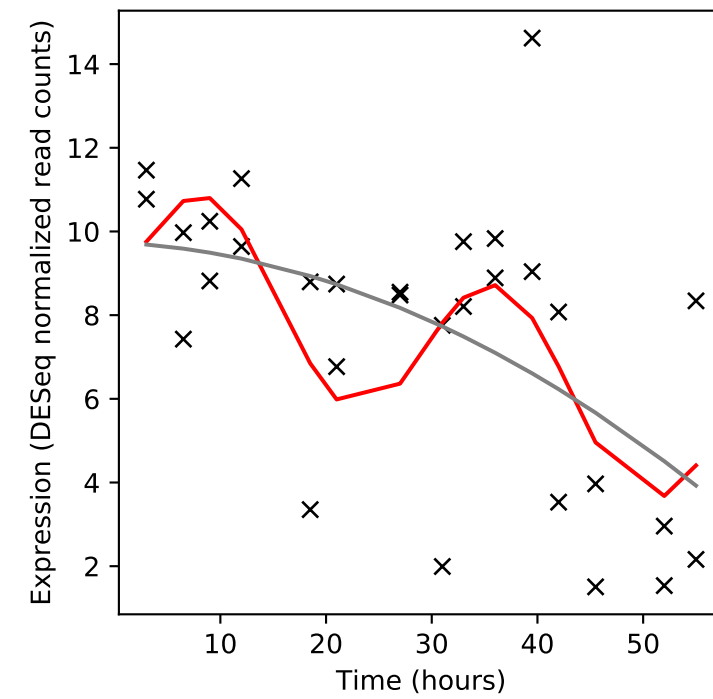
Rv3190c/-



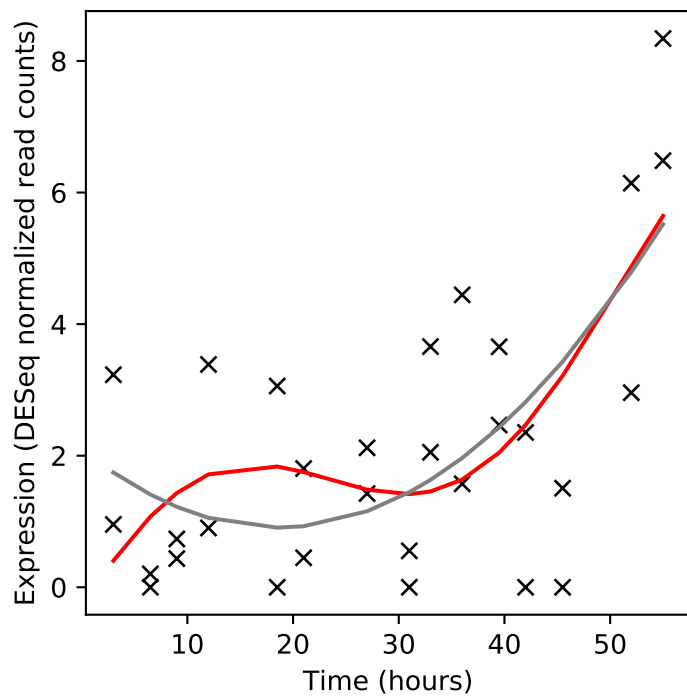
Rv3190A/-



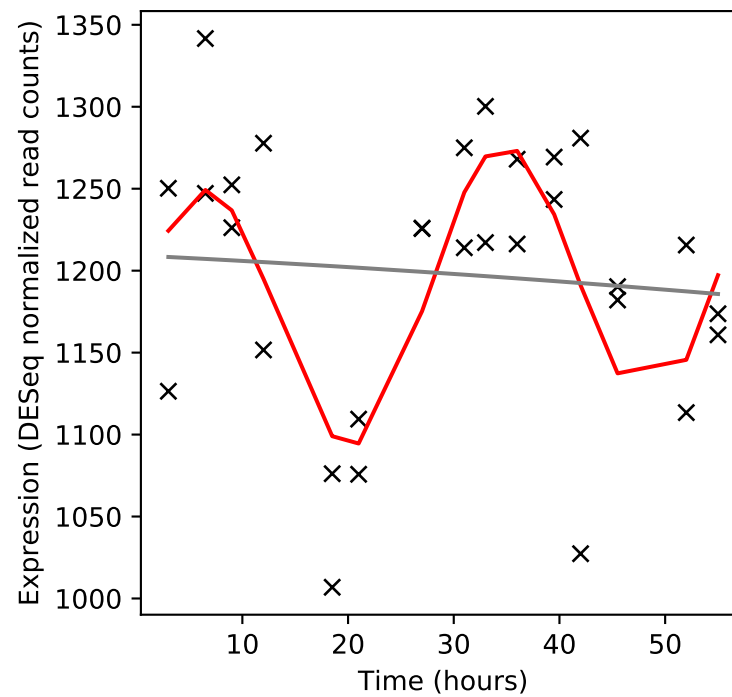
Rv3191c/-



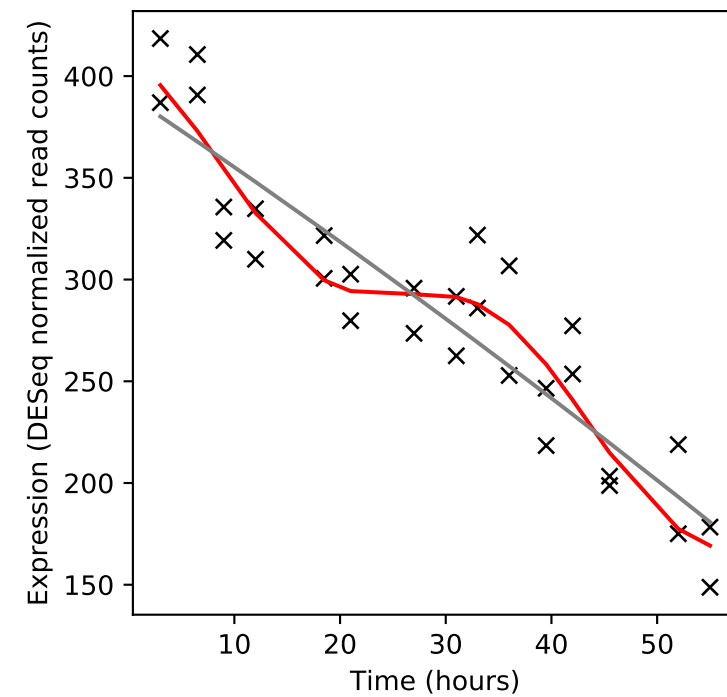
Rv3192/-



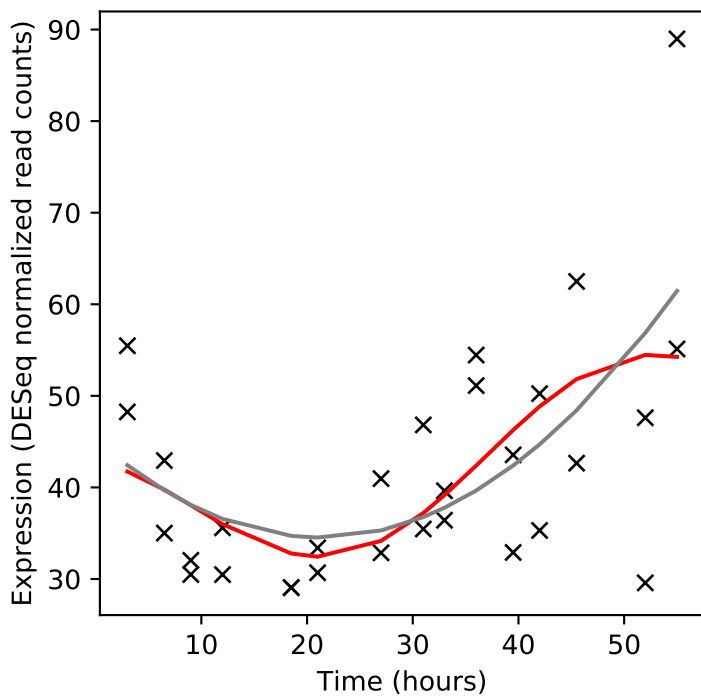
Rv3193c/-



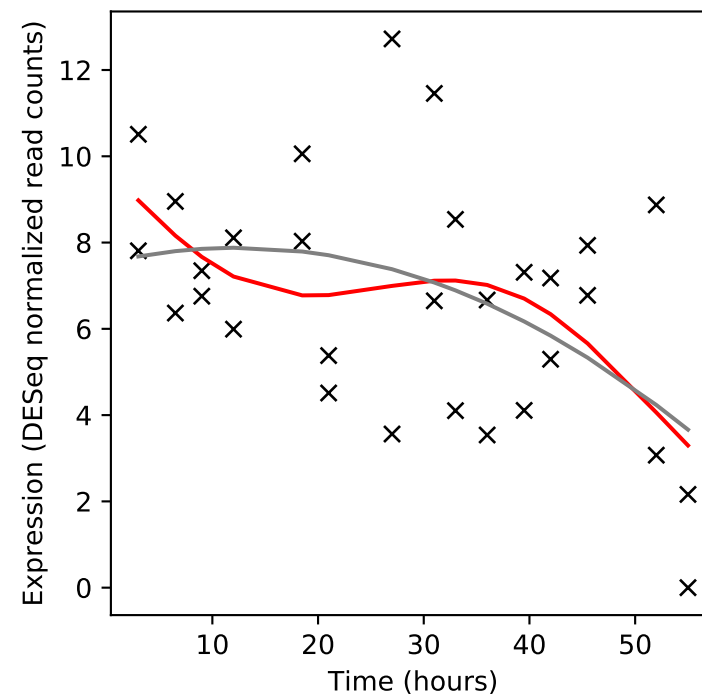
Rv3194c/-



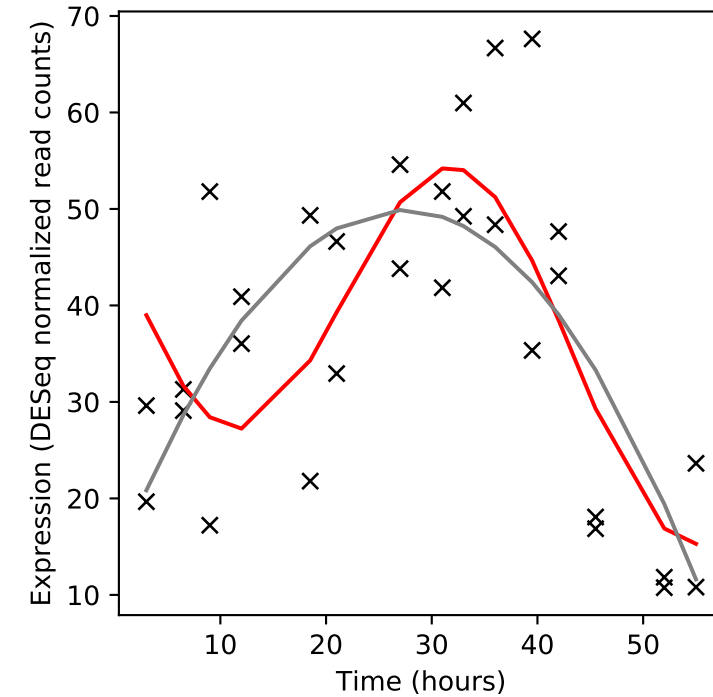
Rv3195/-



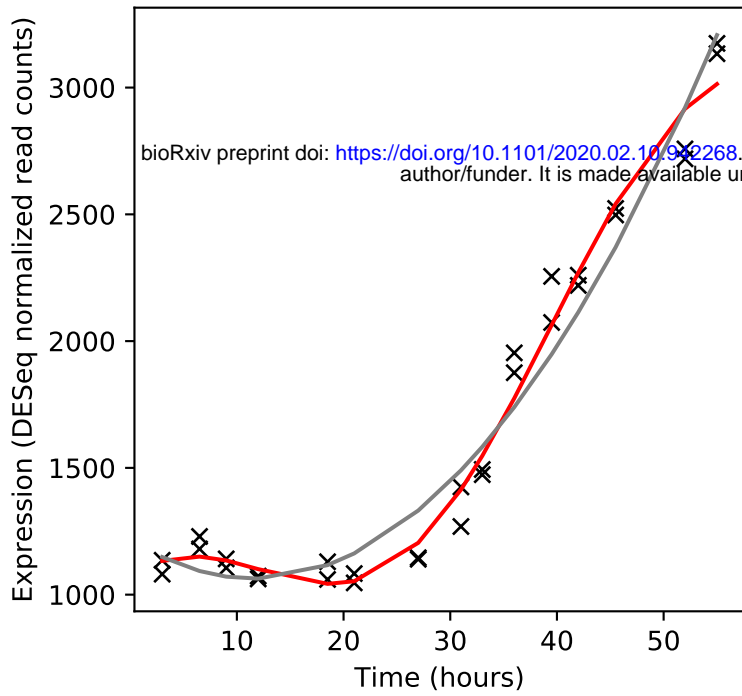
Rv3196/-



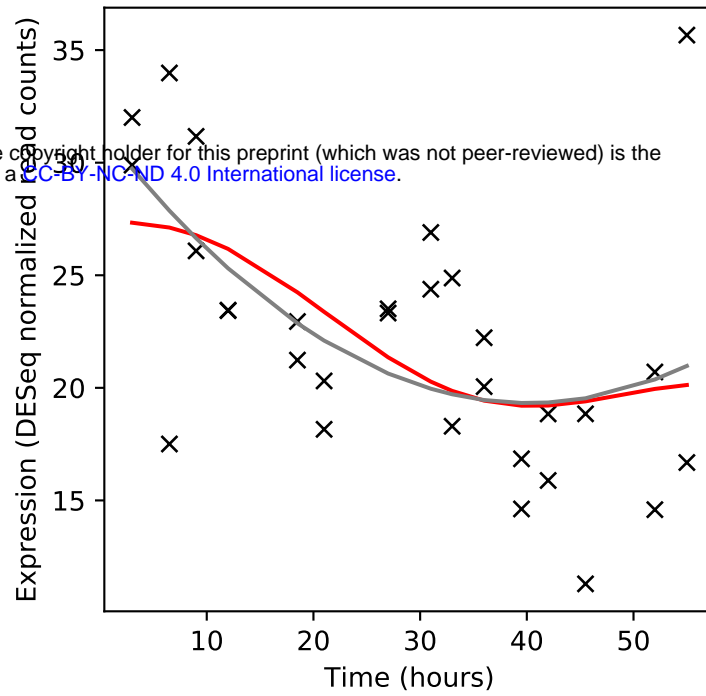
Rv3196A/-



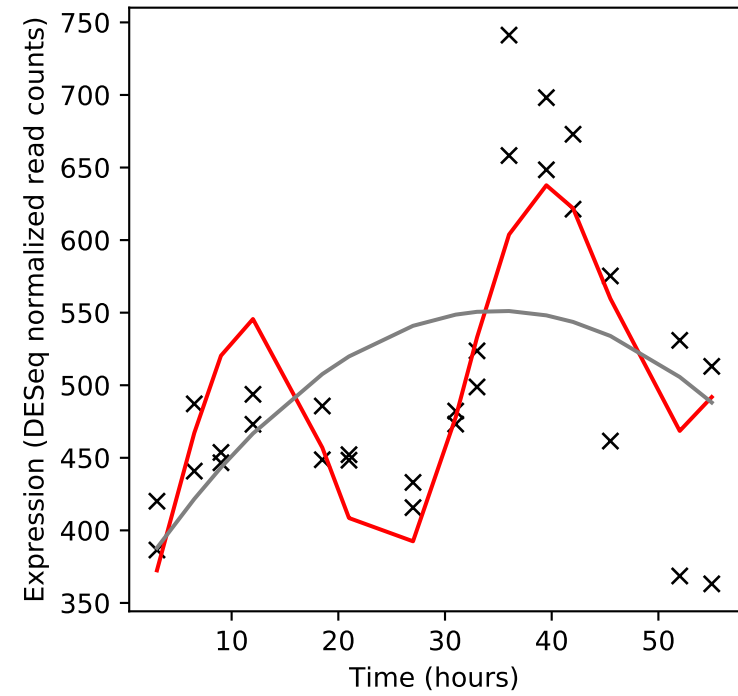
Rv3197/-



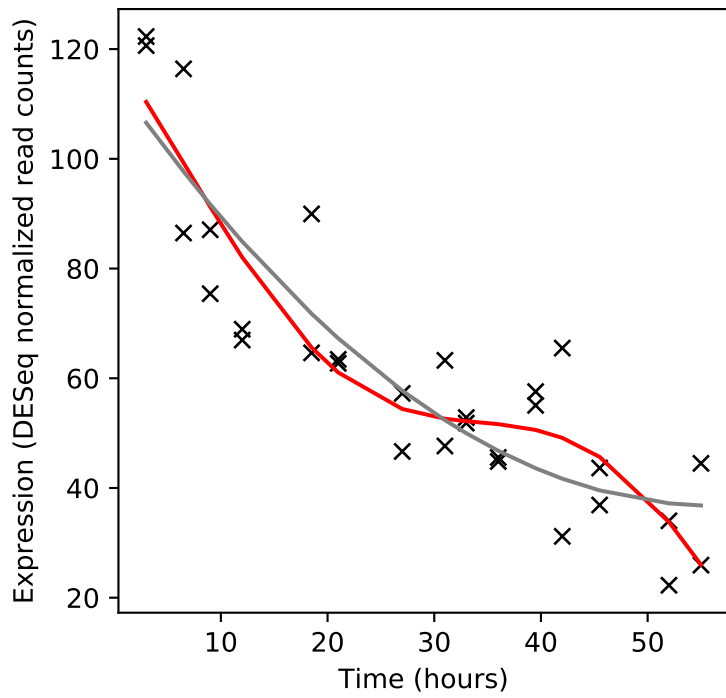
Rv3197A/whiB7



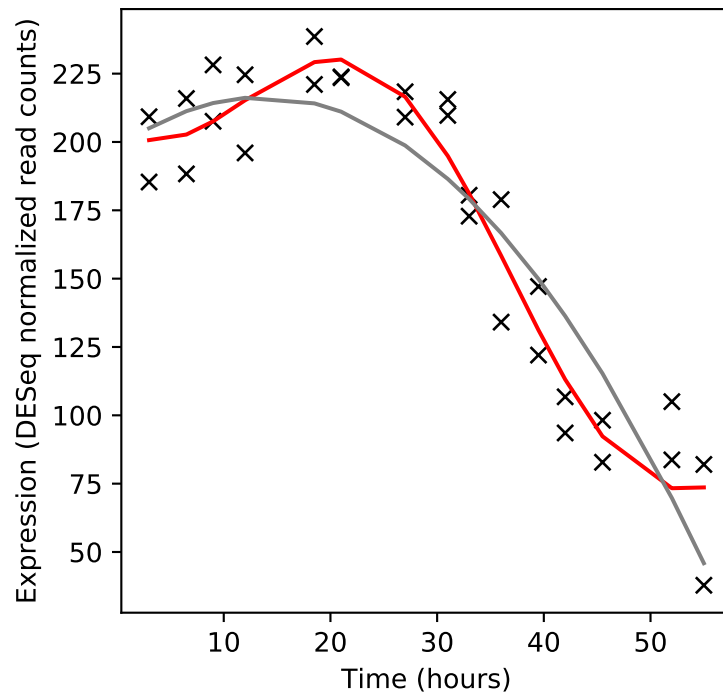
Rv3198c/uvrD2



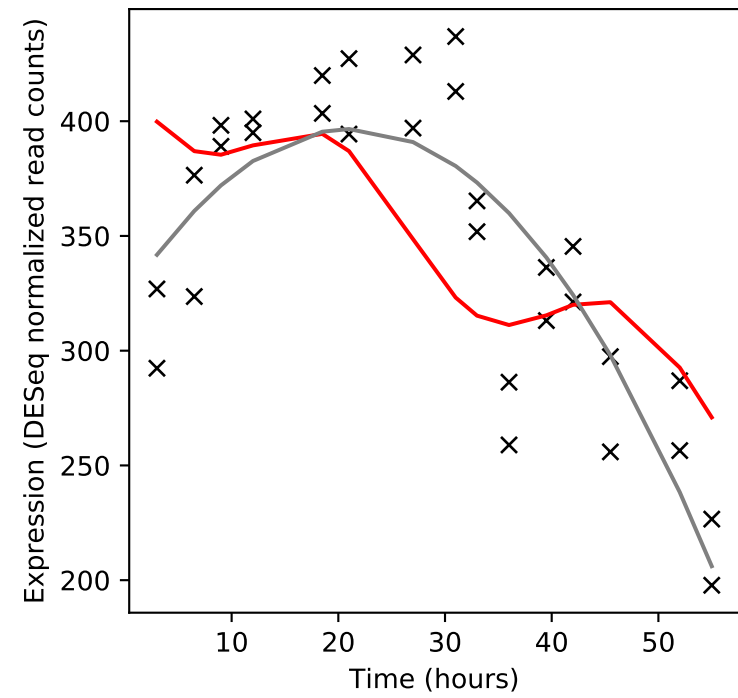
Rv3198A/-



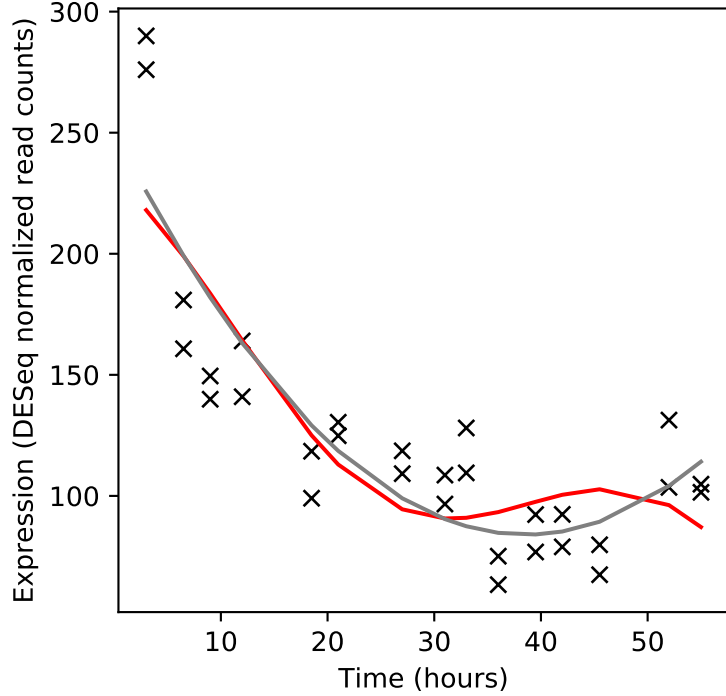
Rv3199c/nudC



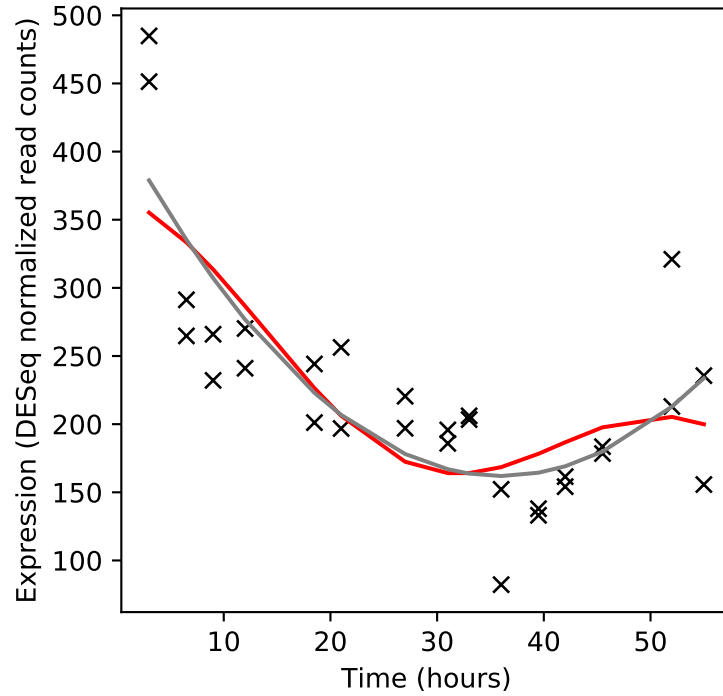
Rv3200c/-



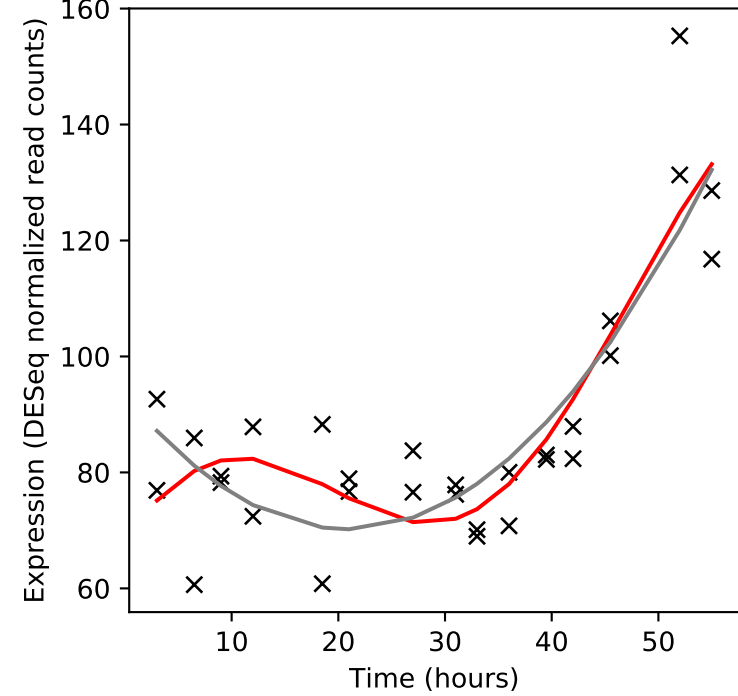
Rv3201c/-



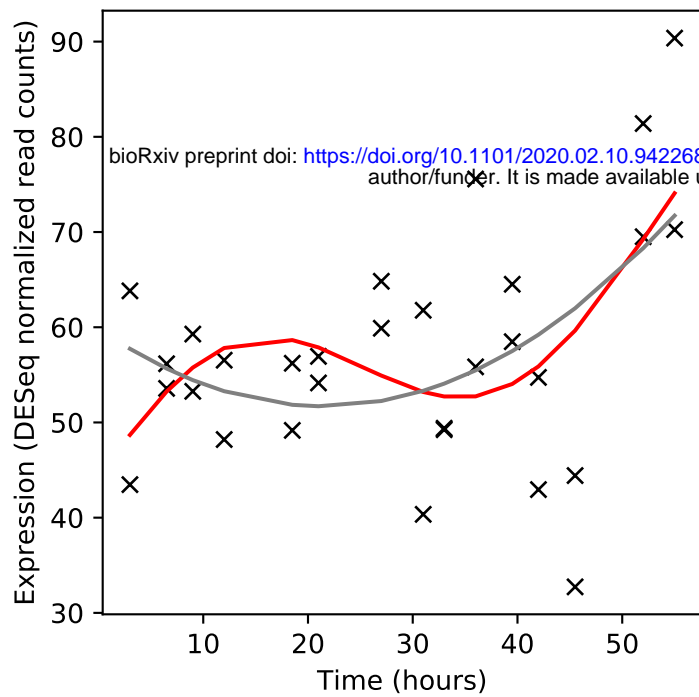
Rv3202c/-



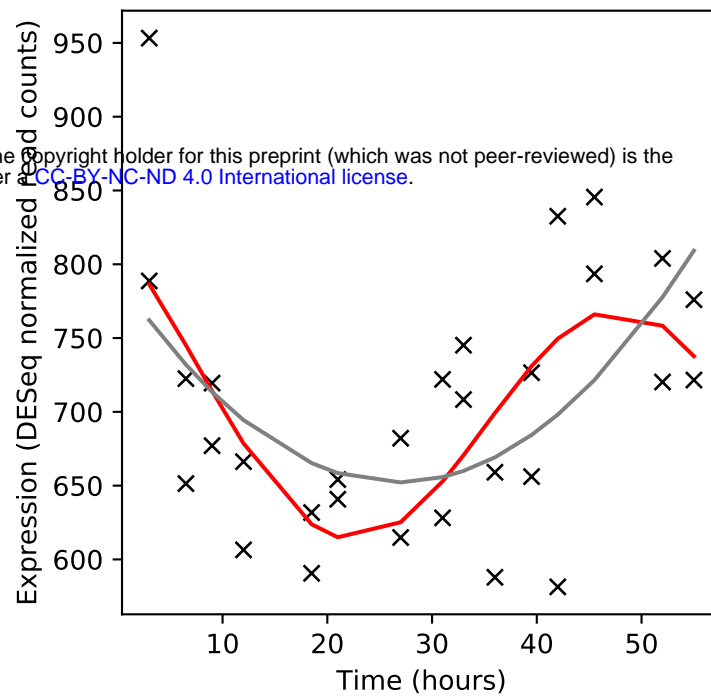
Rv3203/lipV



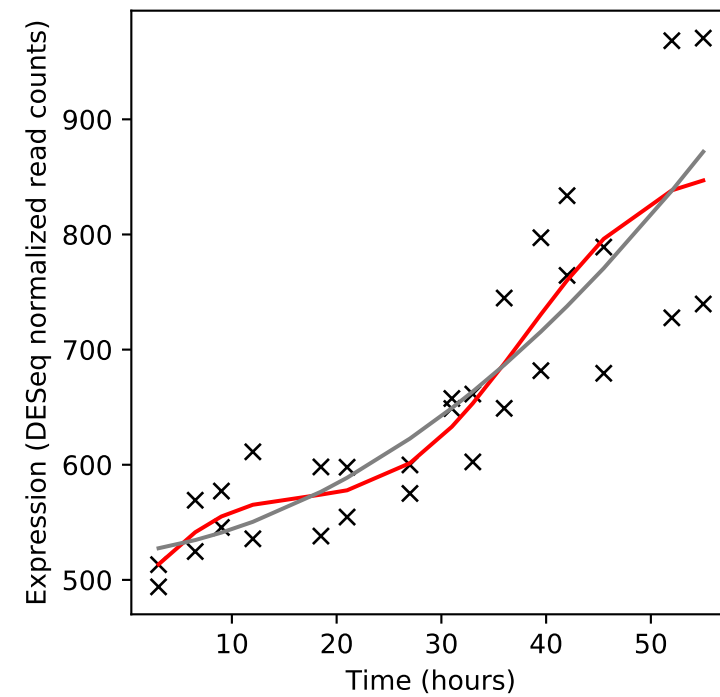
Rv3204/-



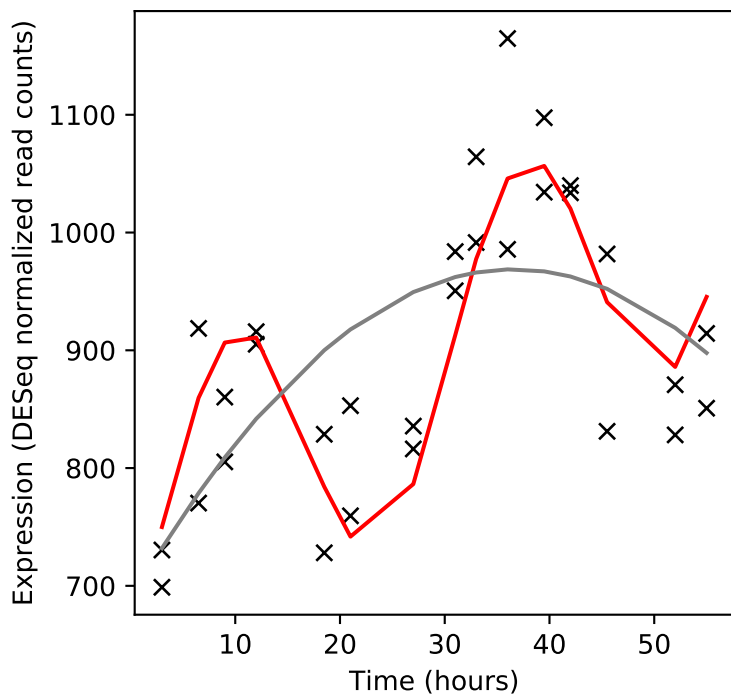
Rv3205c/-



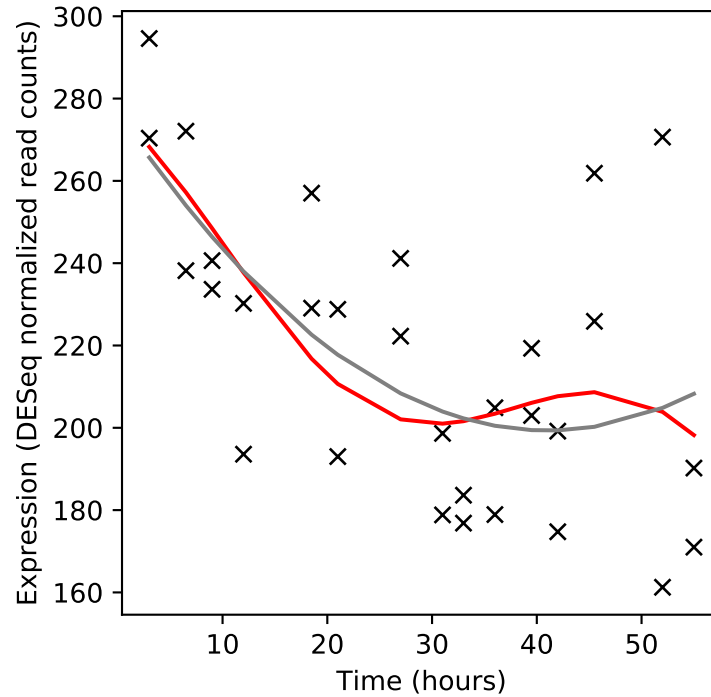
Rv3206c/moeB1



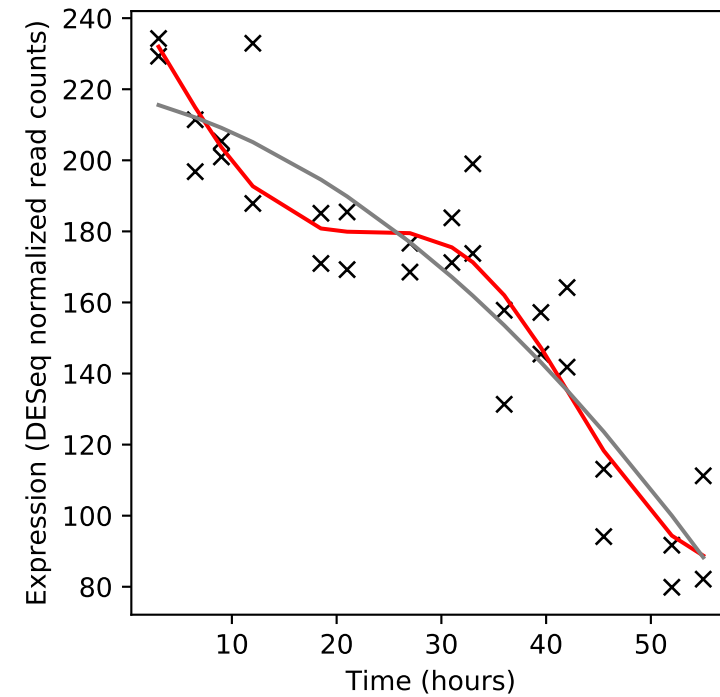
Rv3207c/-



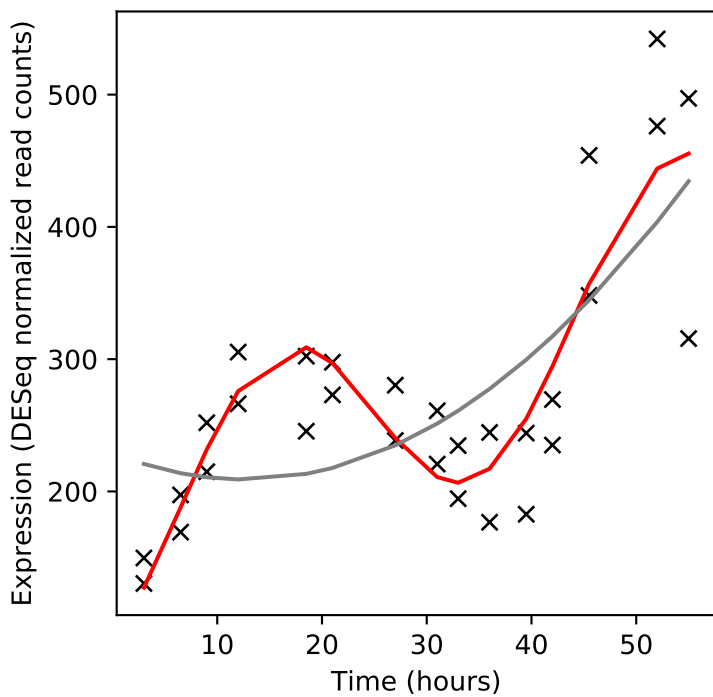
Rv3208/-



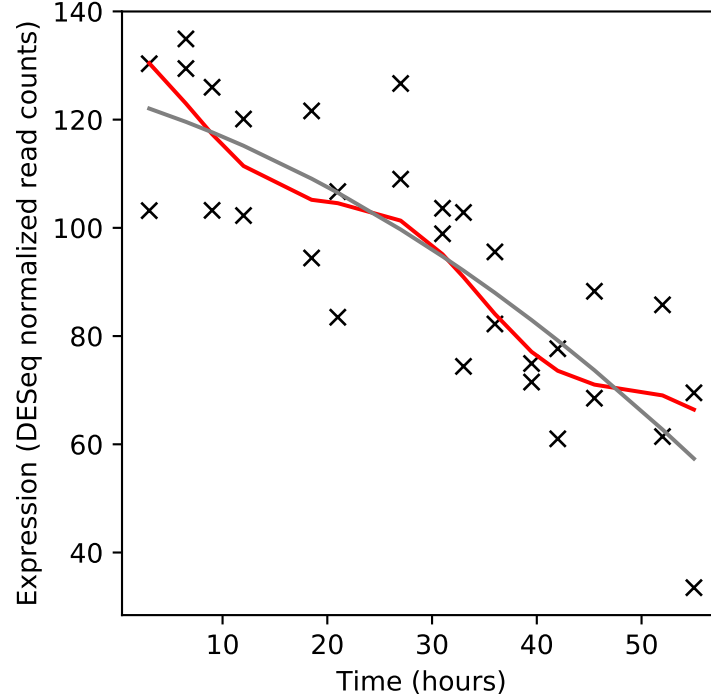
Rv3208A/TB9.4



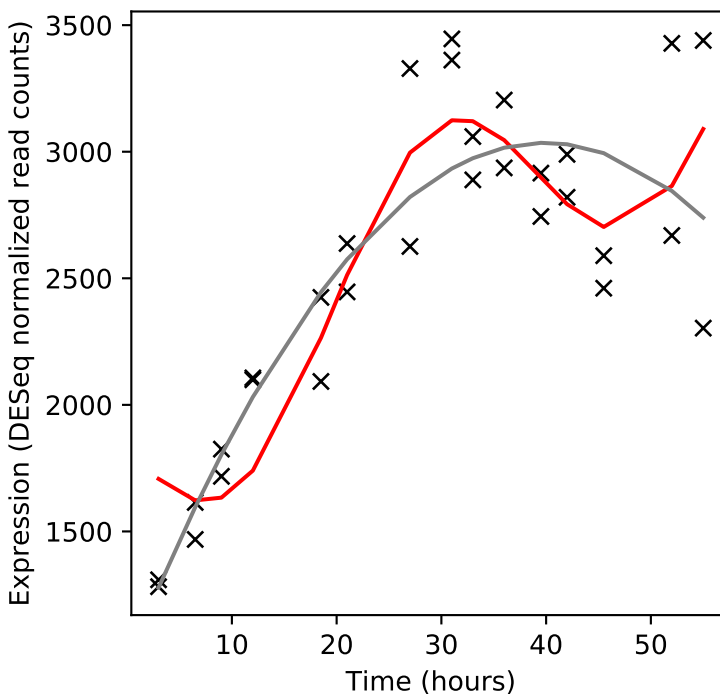
Rv3209/-



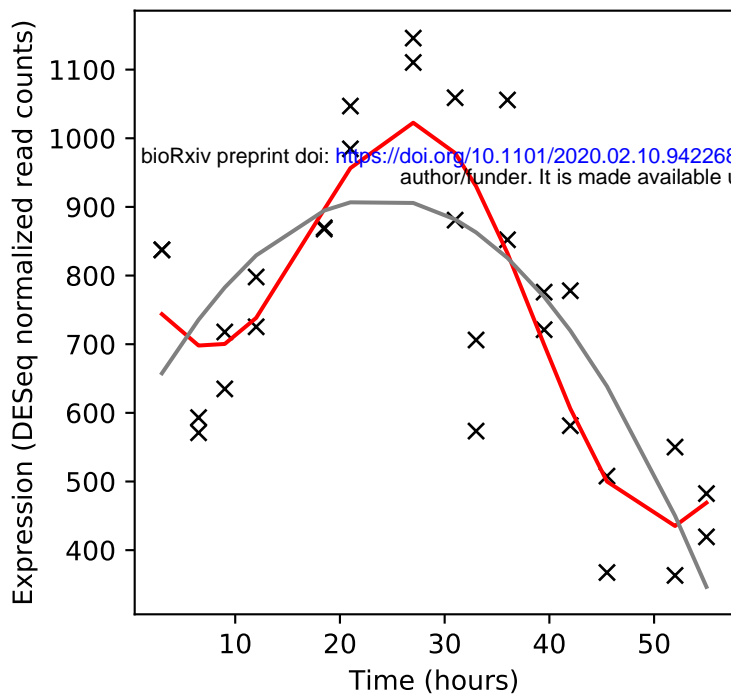
Rv3210c/-



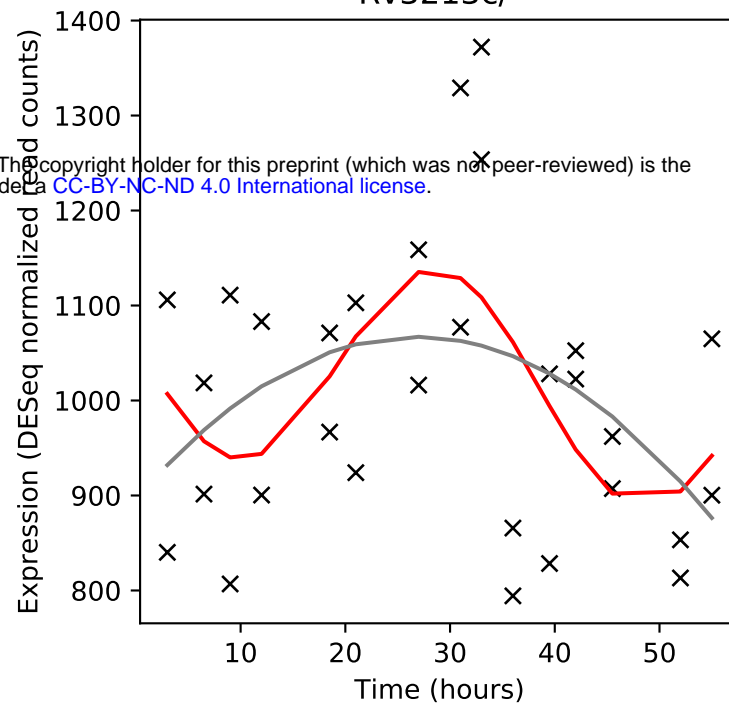
Rv3211/rhIE



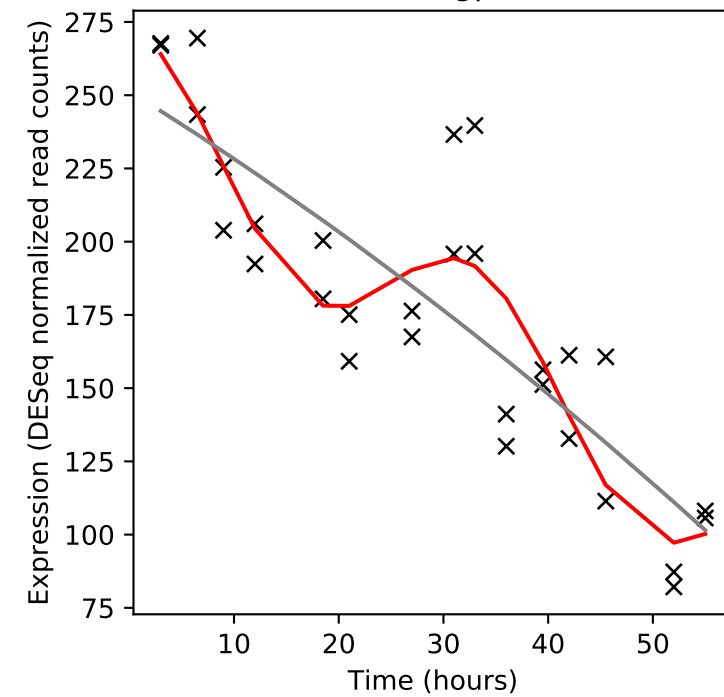
Rv3212/-



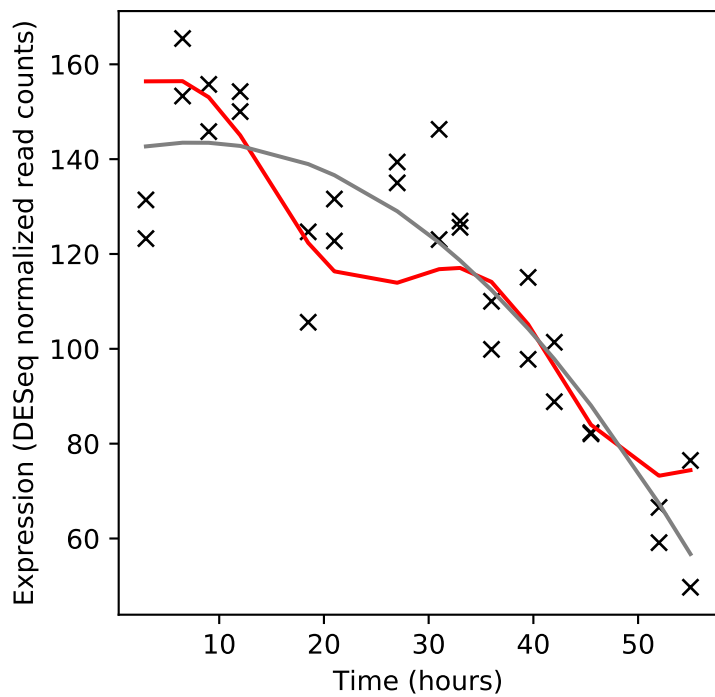
Rv3213c/-



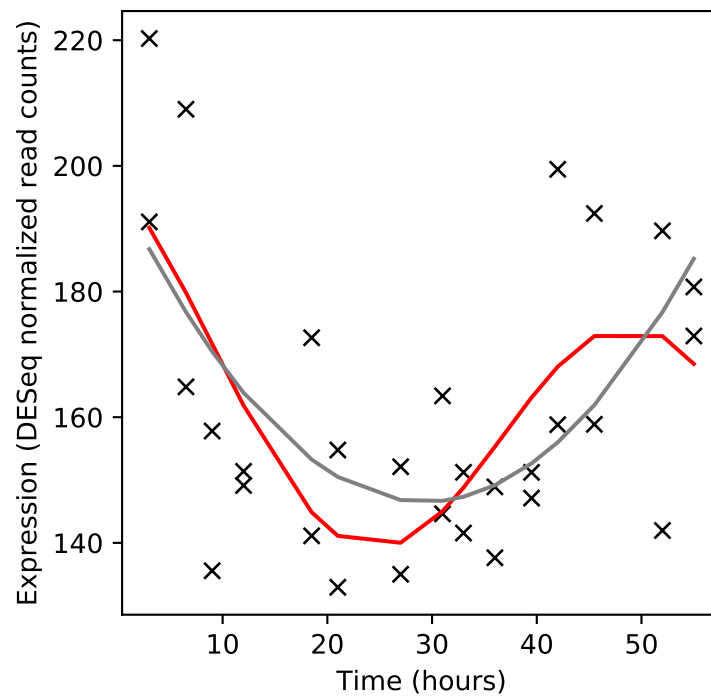
Rv3214/gpm2



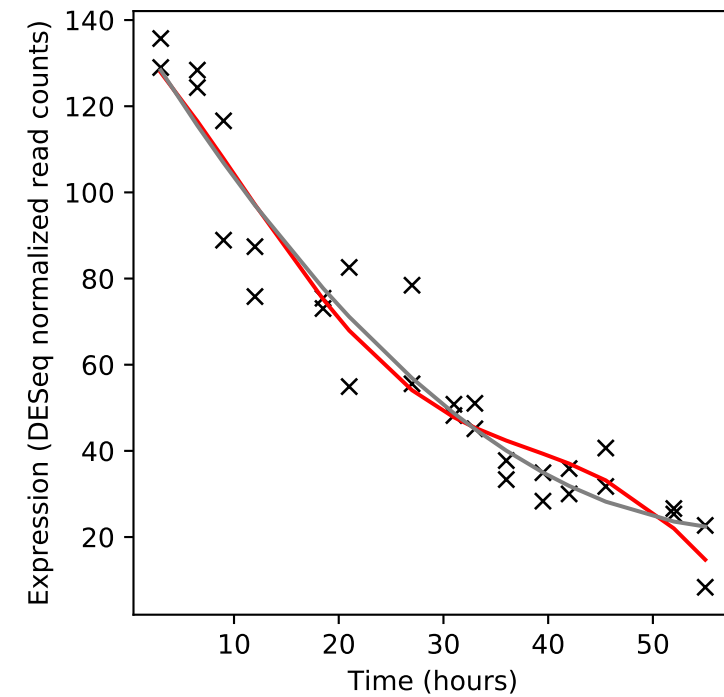
Rv3215/entC



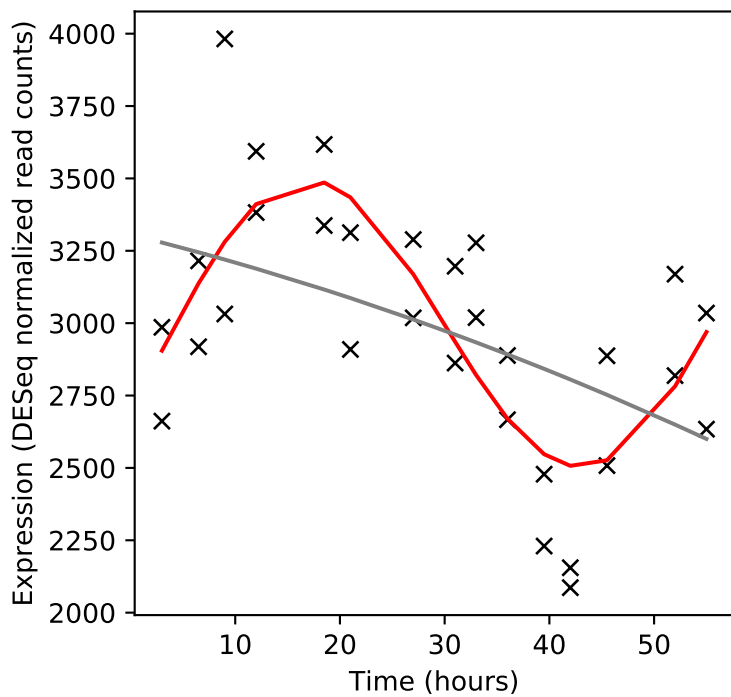
Rv3217c/-



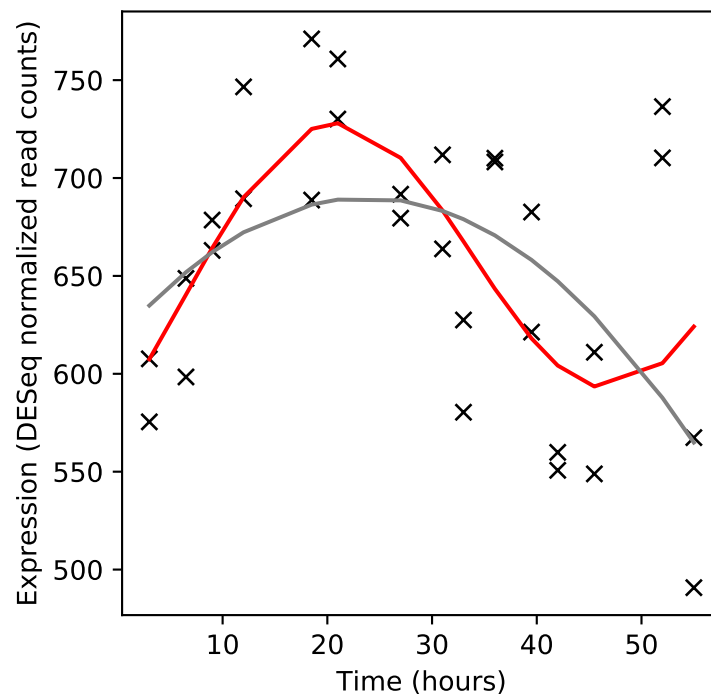
Rv3218/-



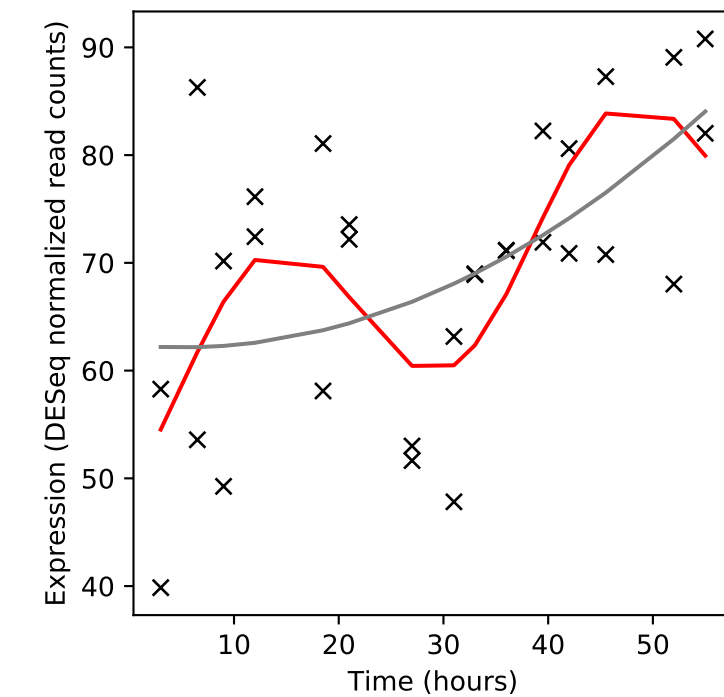
Rv3219/whiB1



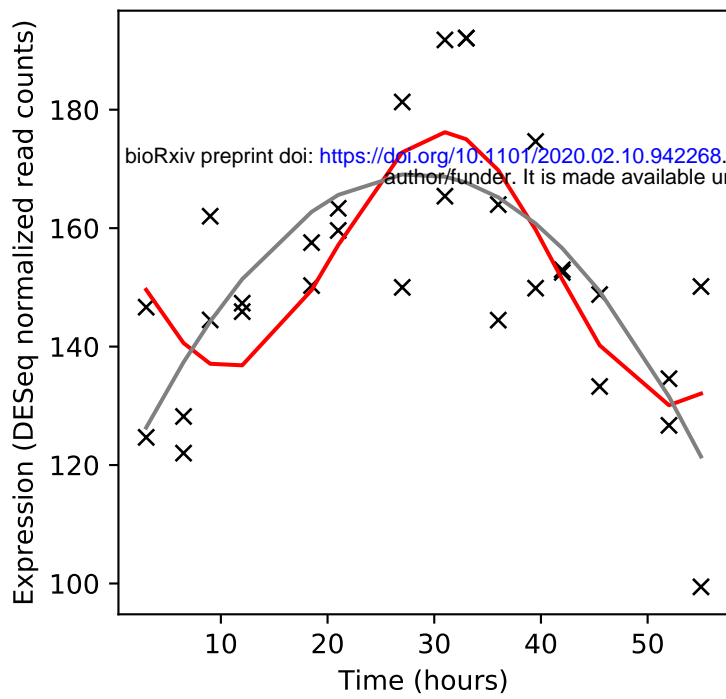
Rv3220c/-



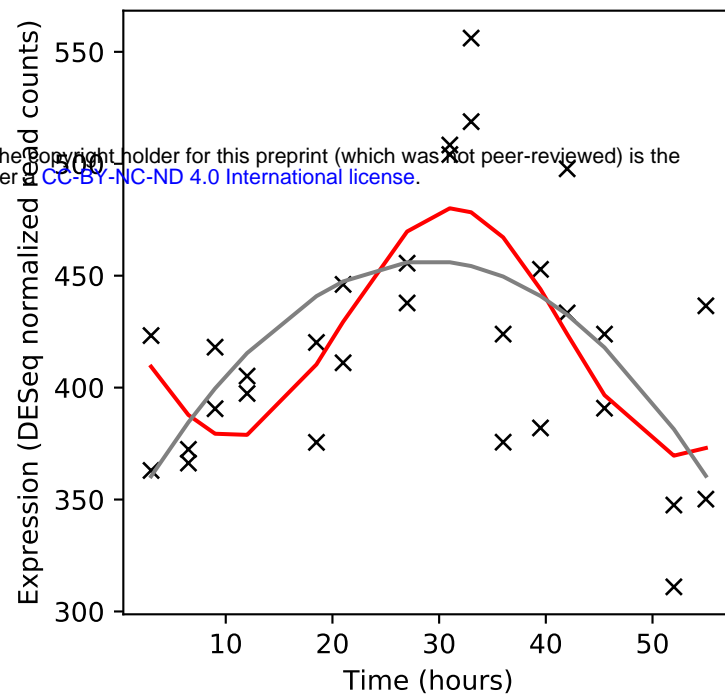
Rv3221c/TB7.3



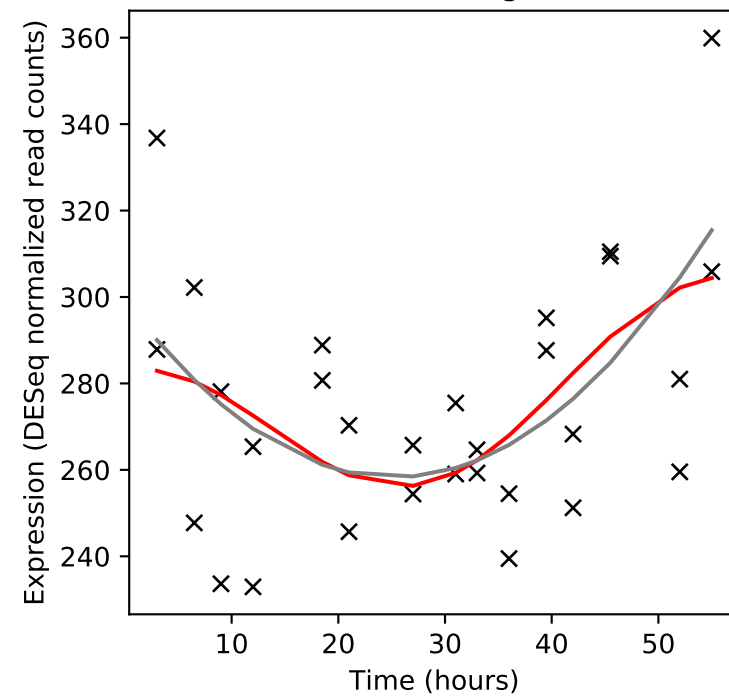
Rv3221A/rshA



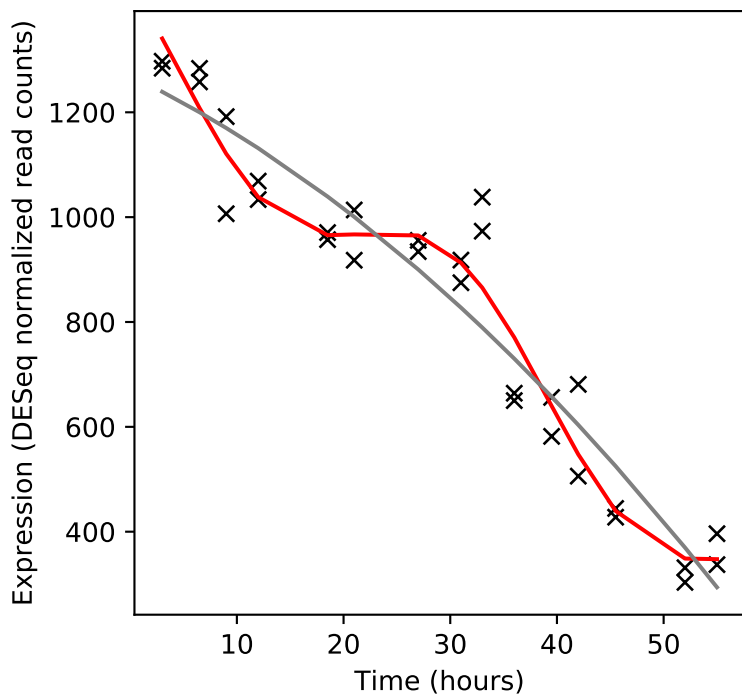
Rv3222c/-



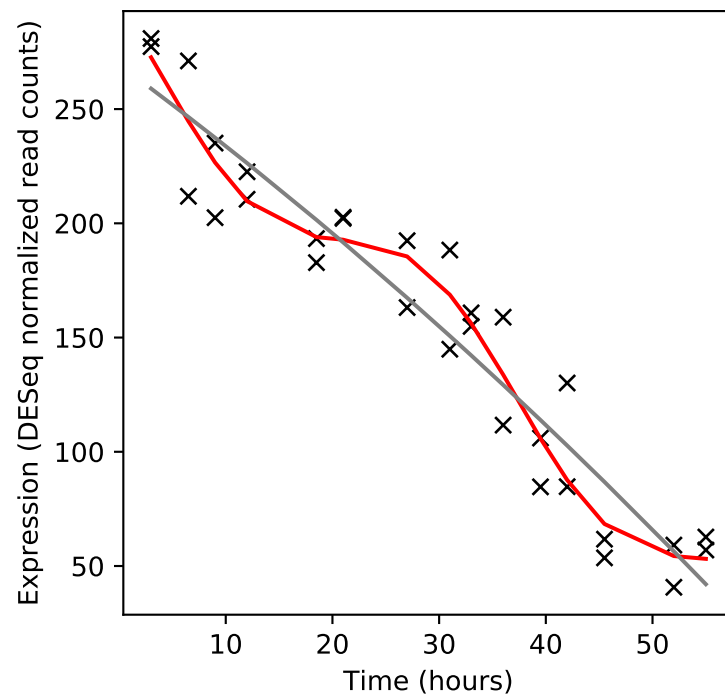
Rv3223c/sigH



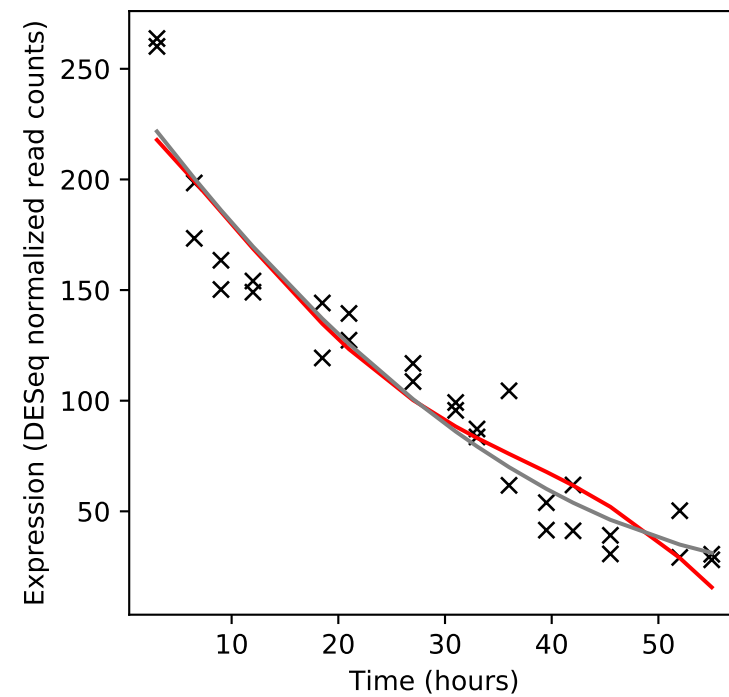
Rv3224/-



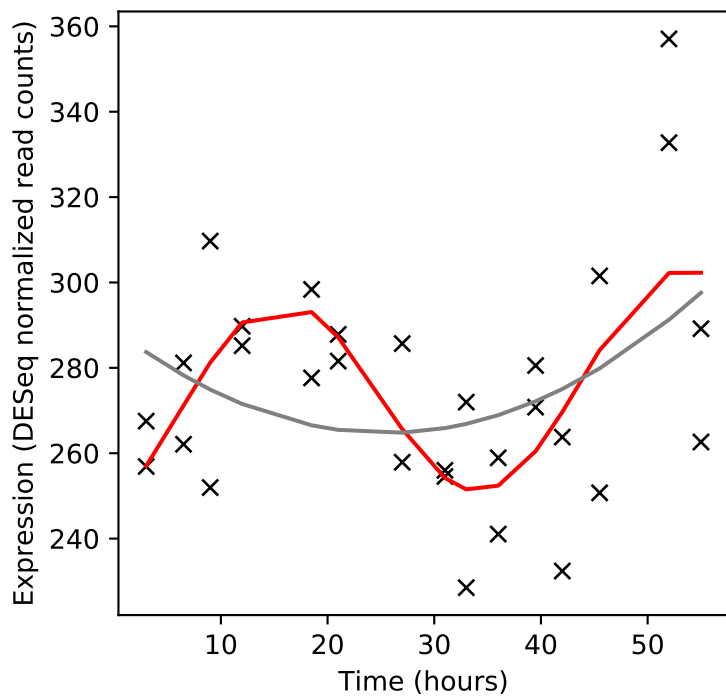
Rv3224A/-



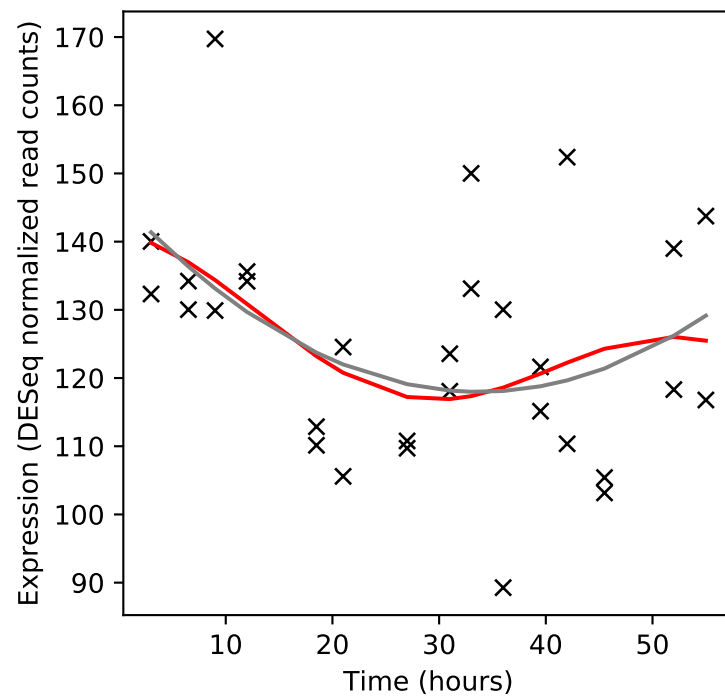
Rv3224B/-



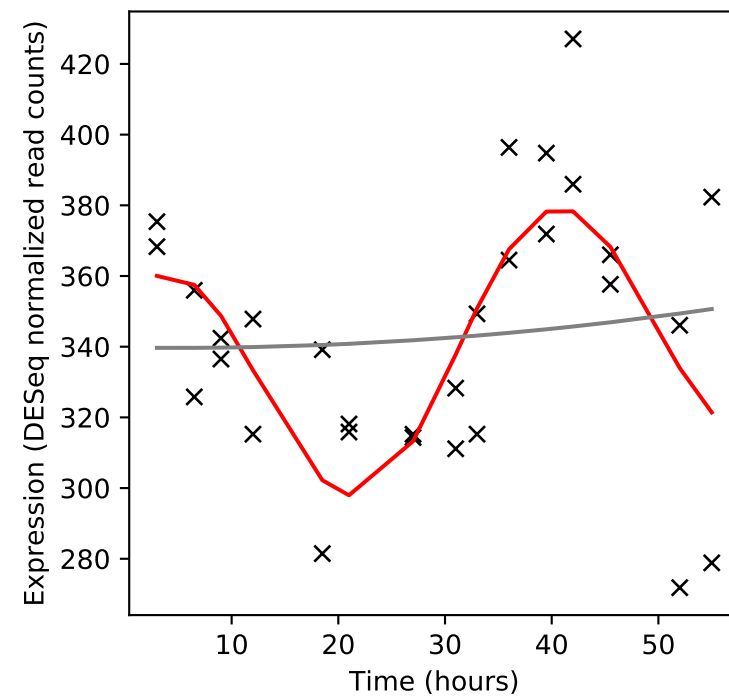
Rv3225c/-



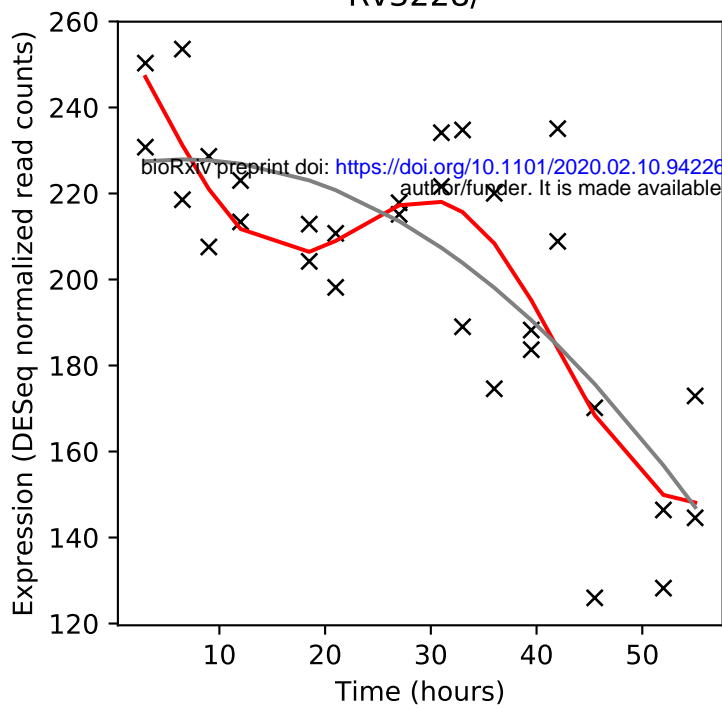
Rv3226c/-



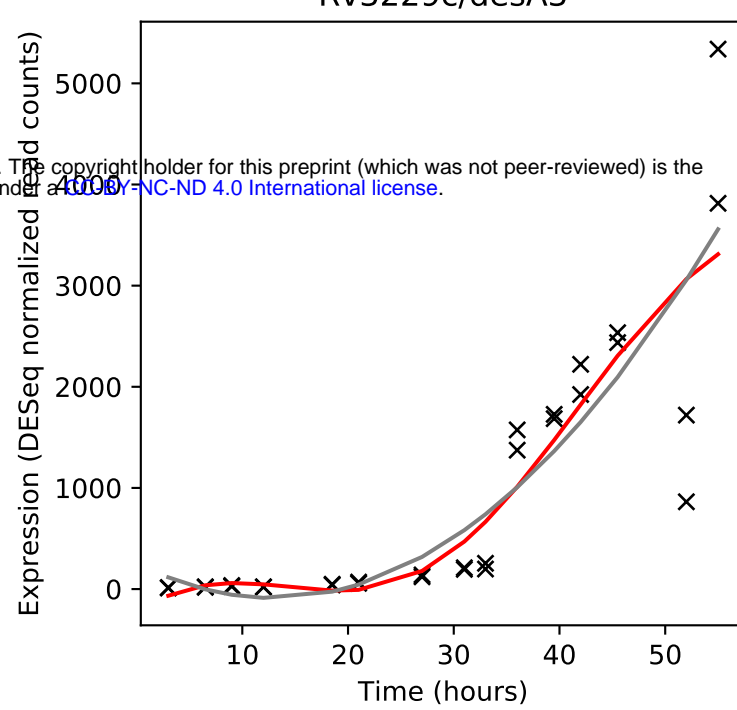
Rv3227/aroA



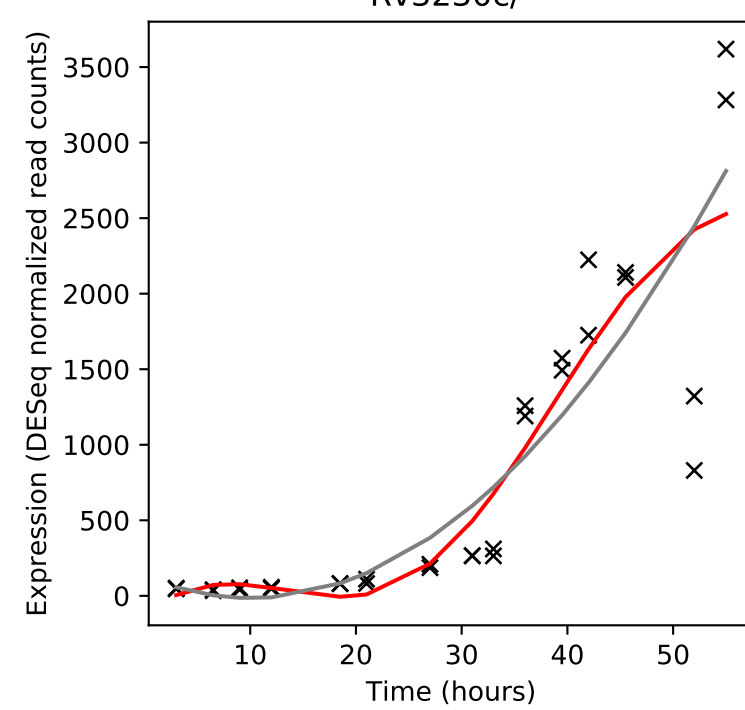
Rv3228/-



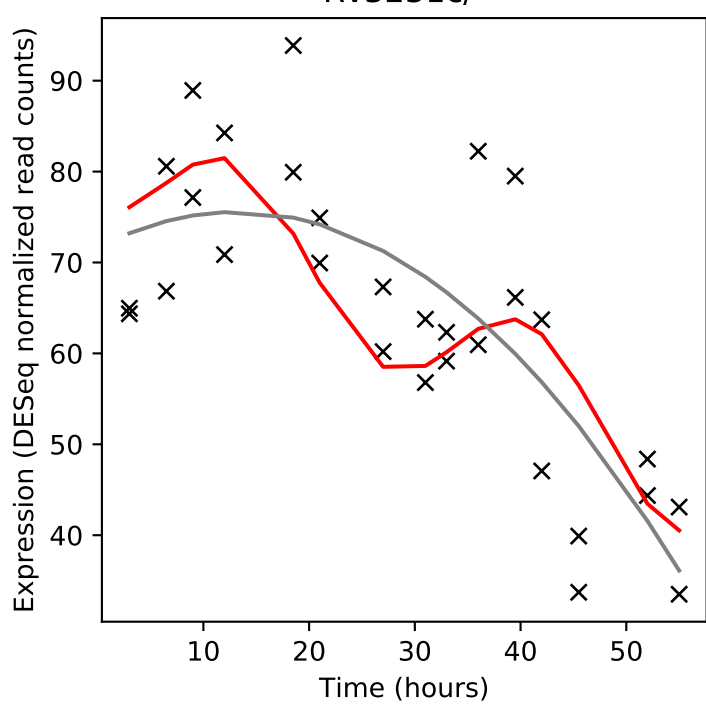
Rv3229c/desA3



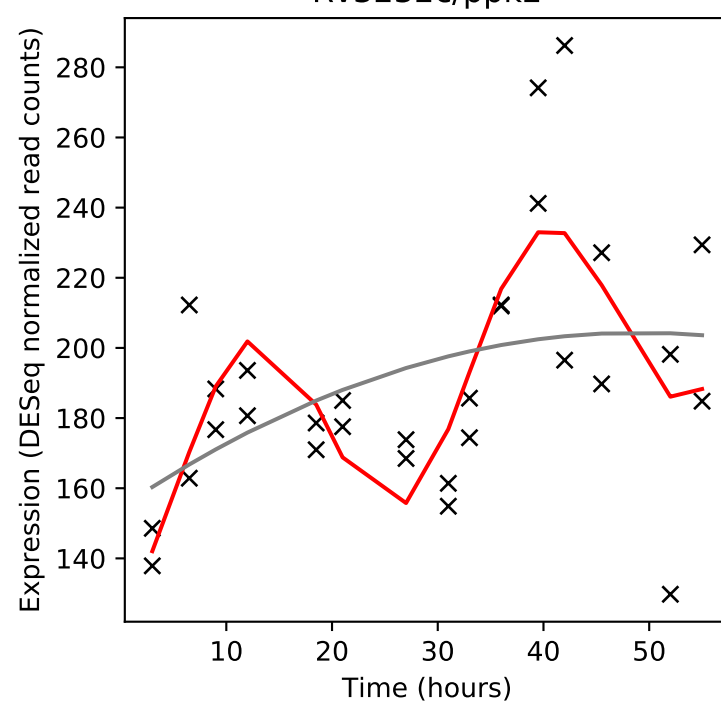
Rv3230c/-



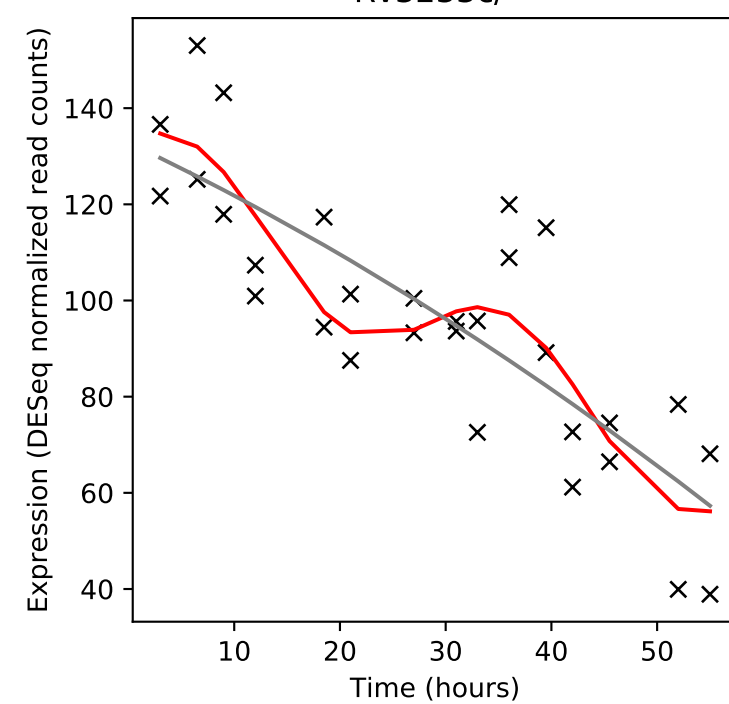
Rv3231c/-



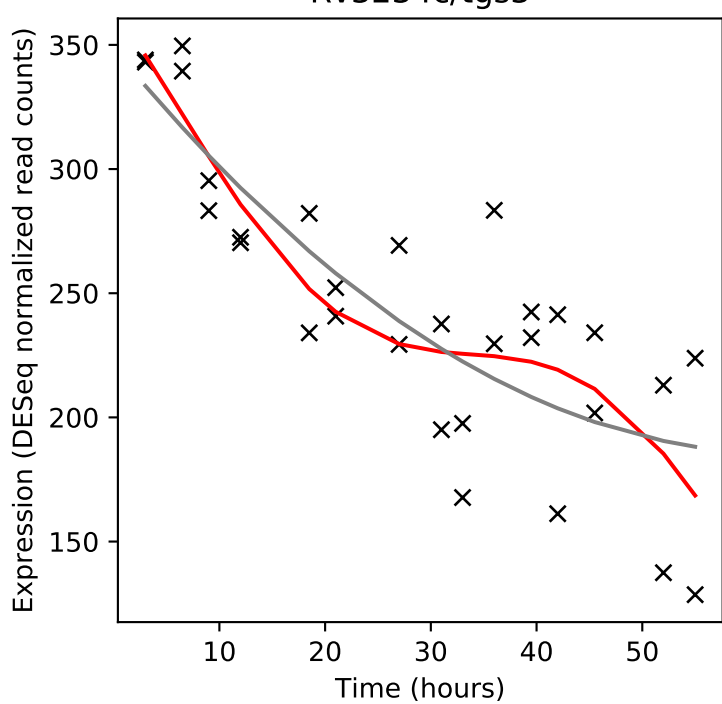
Rv3232c/ppk2



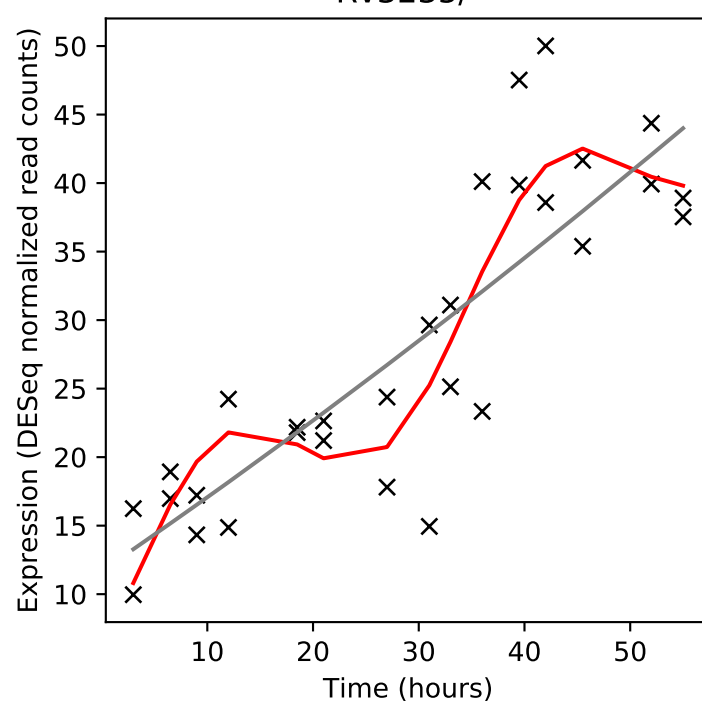
Rv3233c/-



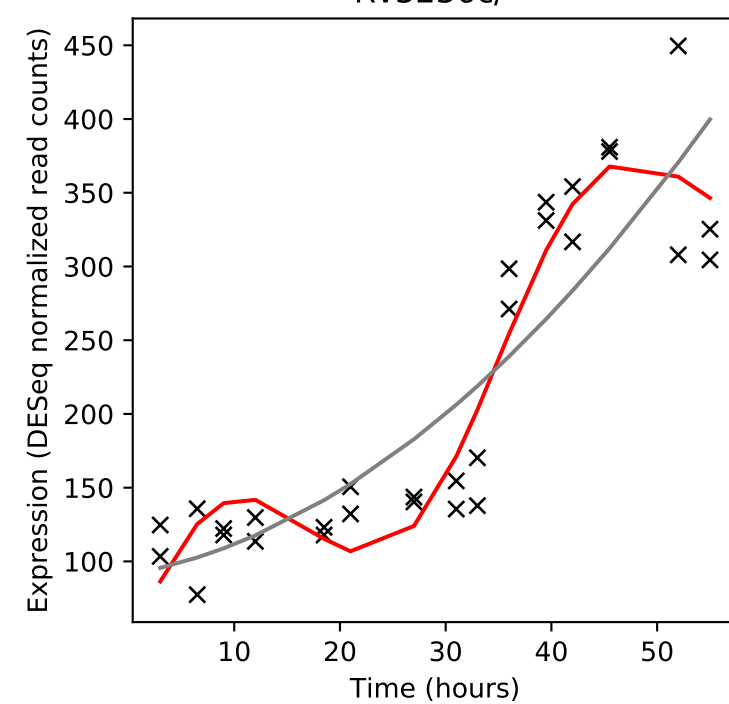
Rv3234c/tgs3



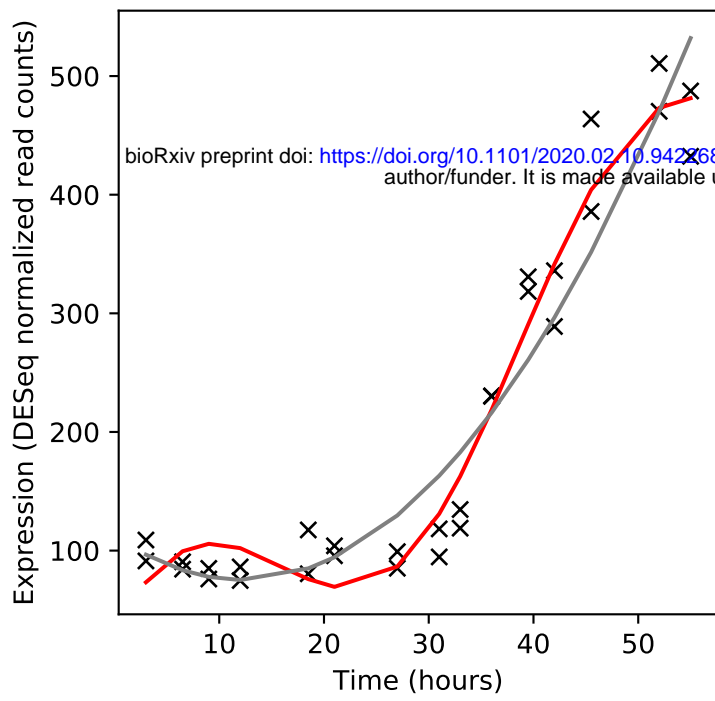
Rv3235/-



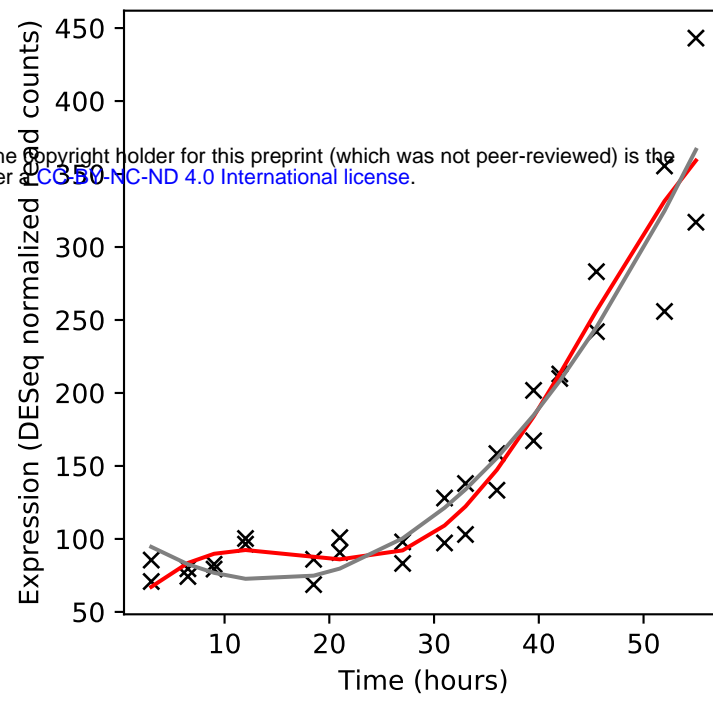
Rv3236c/-



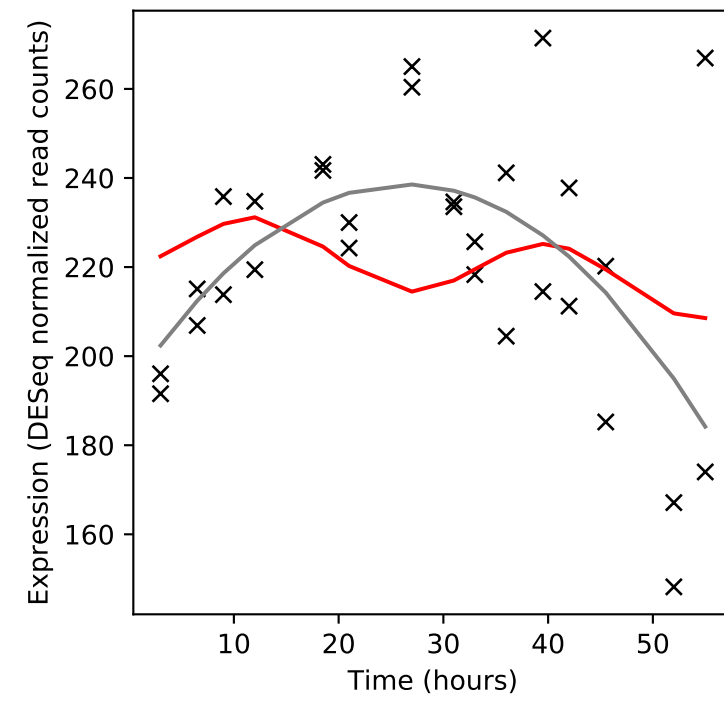
Rv3237c/-



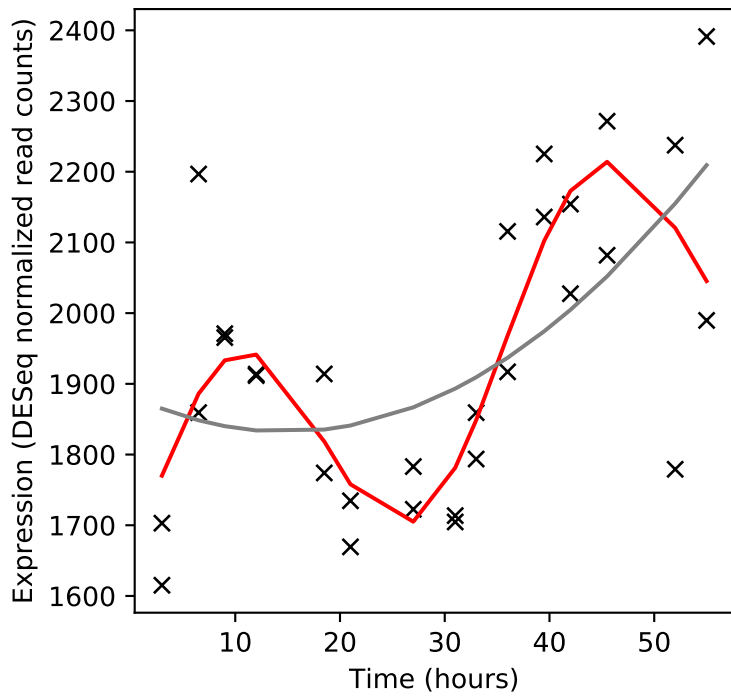
Rv3238c/-



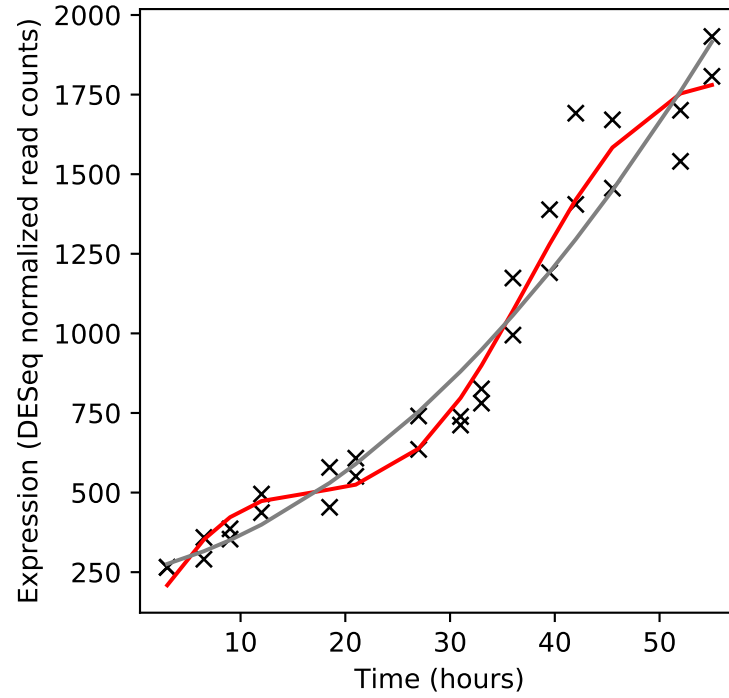
Rv3239c/-



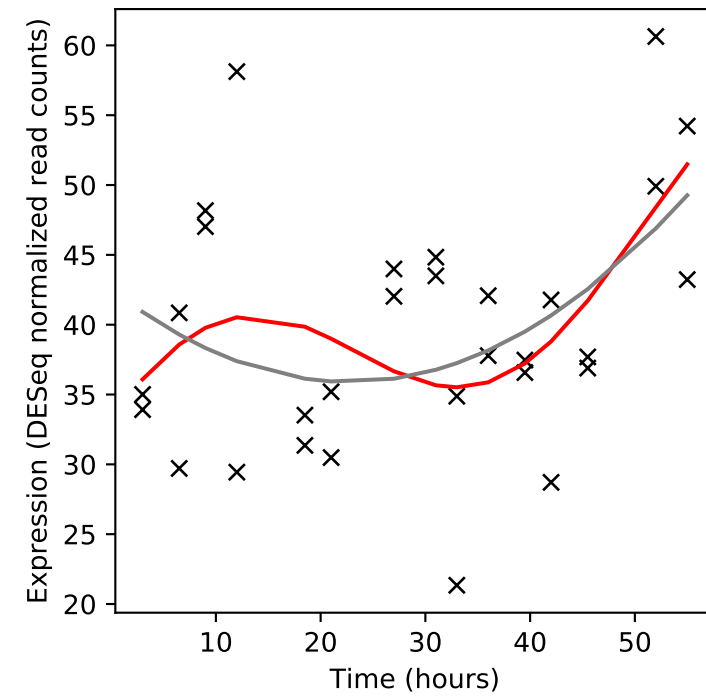
Rv3240c/secA1



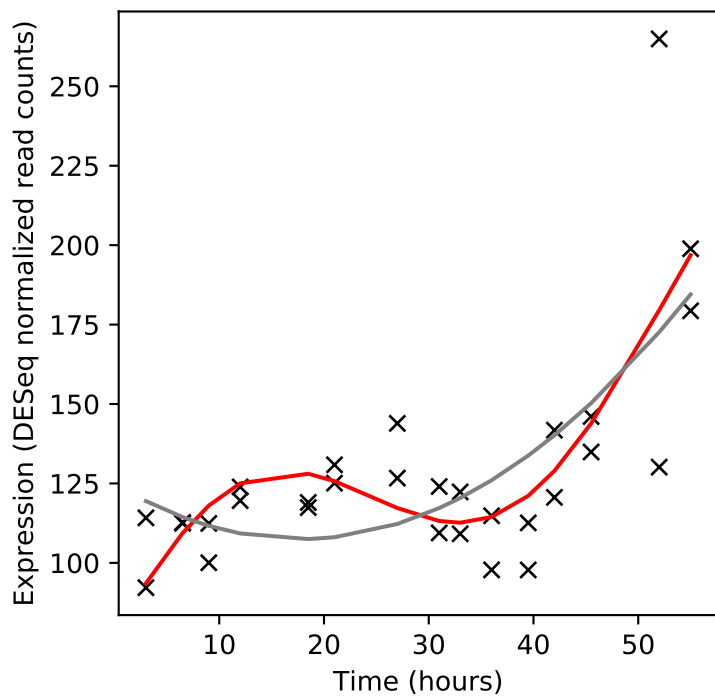
Rv3241c/-



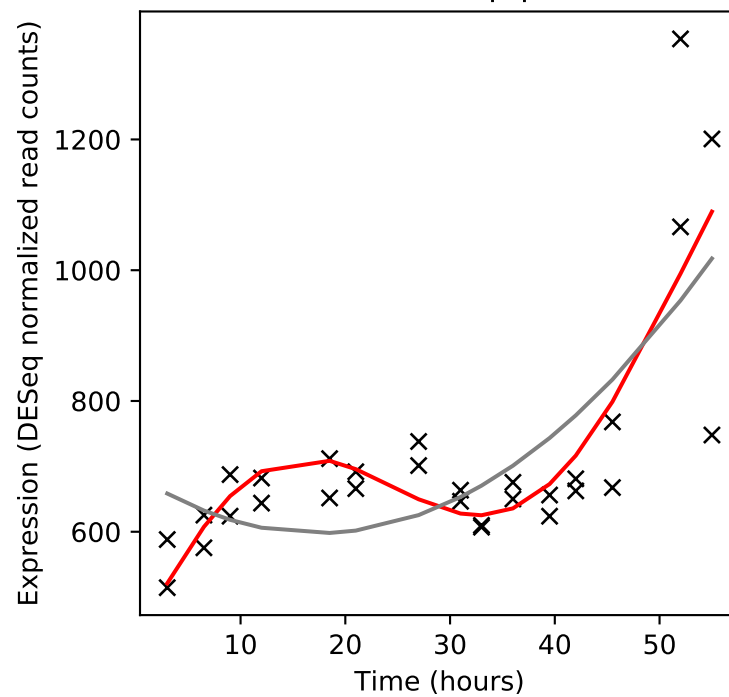
Rv3242c/-



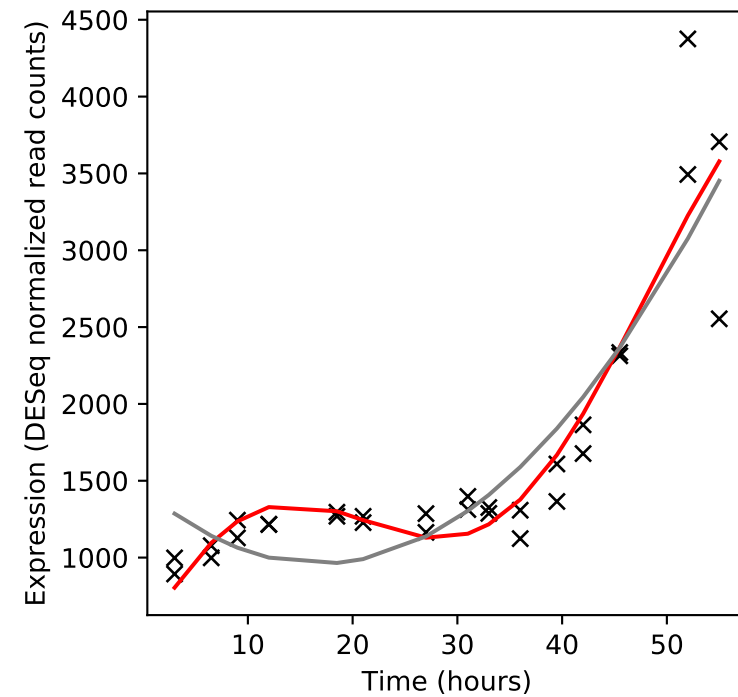
Rv3243c/-



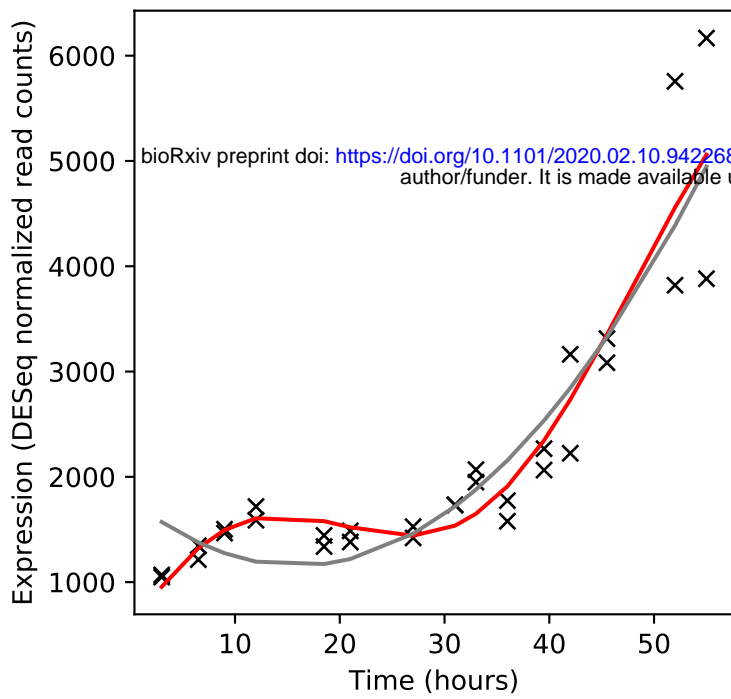
Rv3244c/lpqB



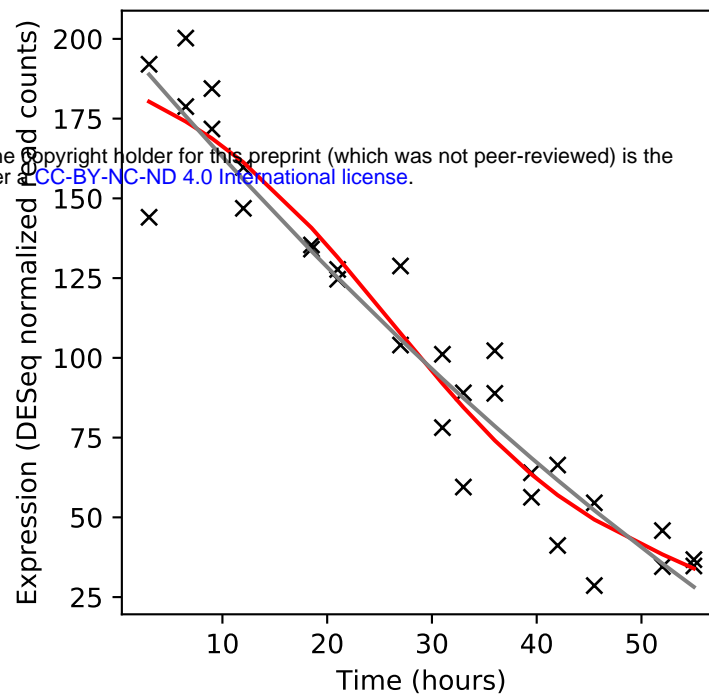
Rv3245c/mtrB



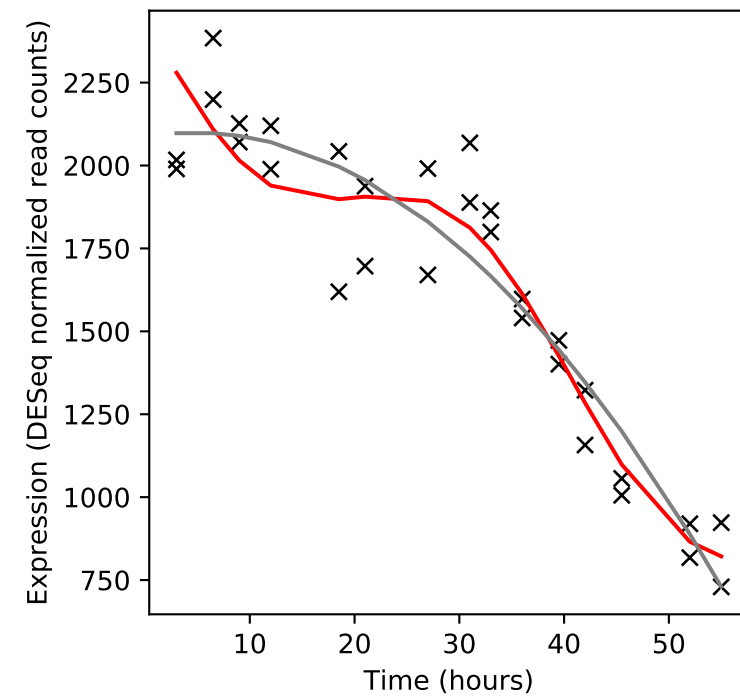
Rv3246c/mtrA



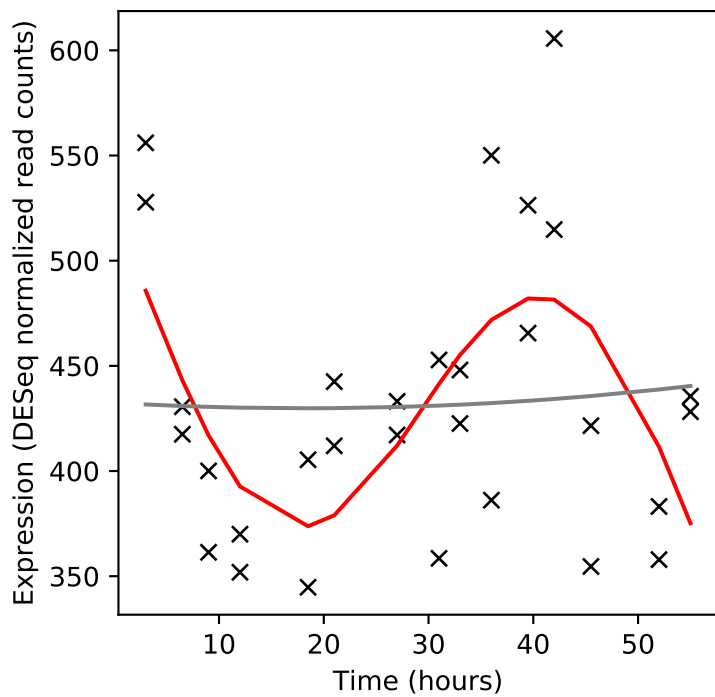
Rv3247c/tmk



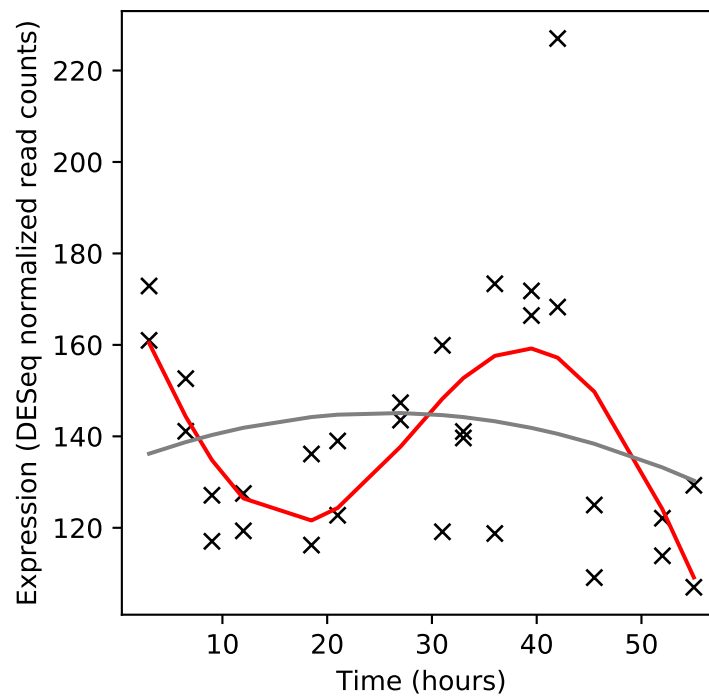
Rv3248c/sahH



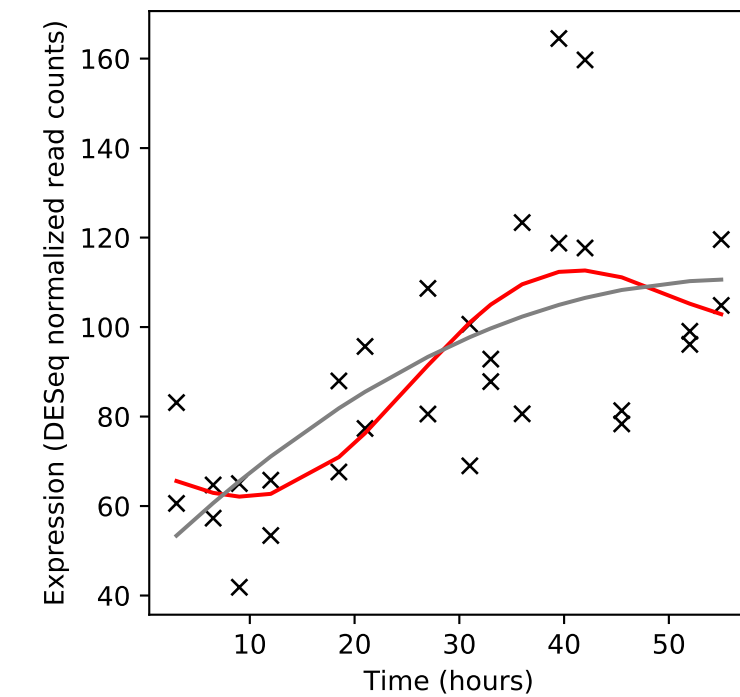
Rv3249c/-



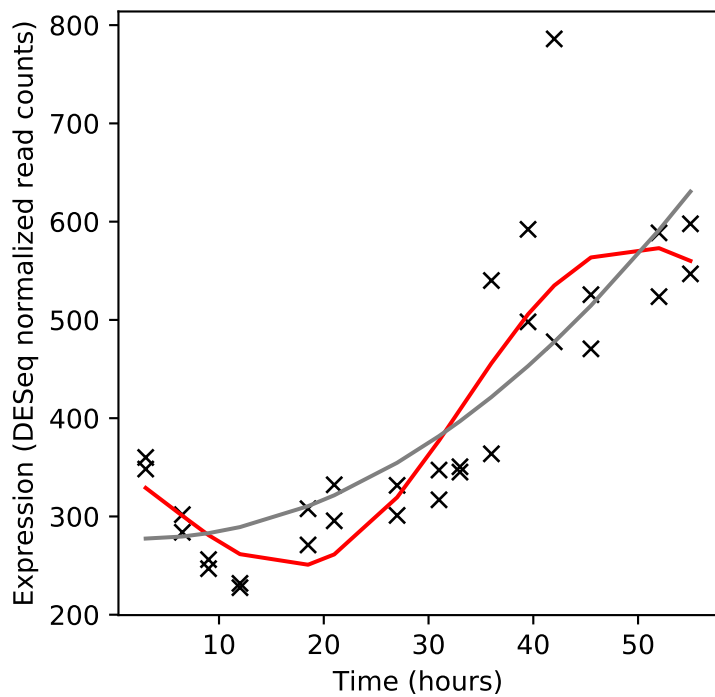
Rv3250c/rubB



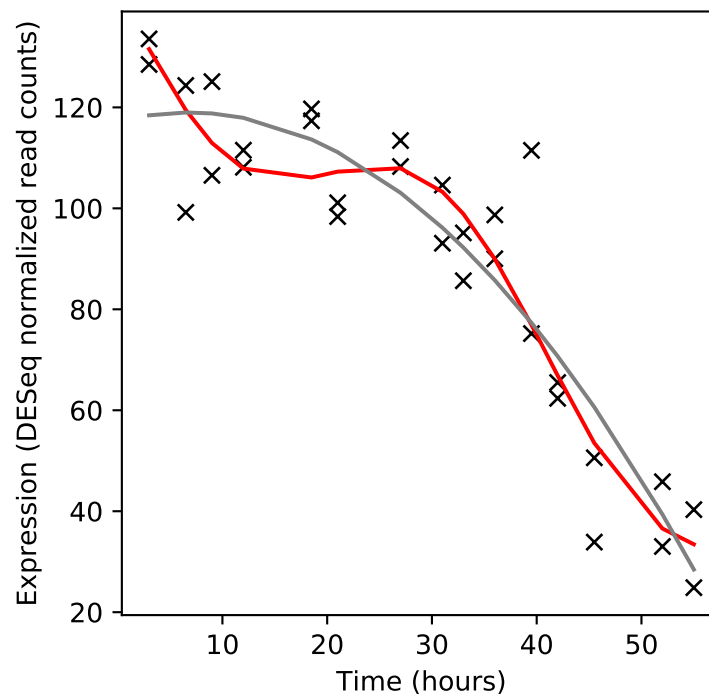
Rv3251c/rubA



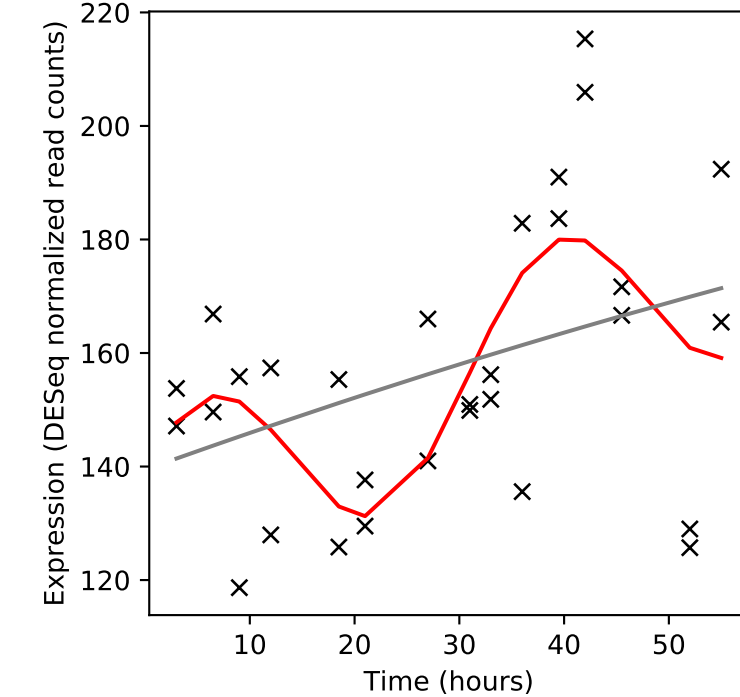
Rv3252c/alkB



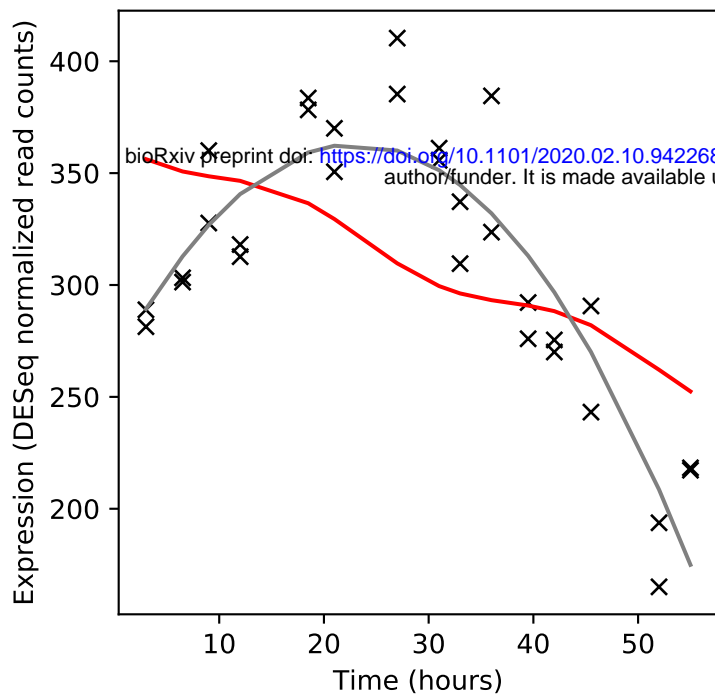
Rv3253c/-



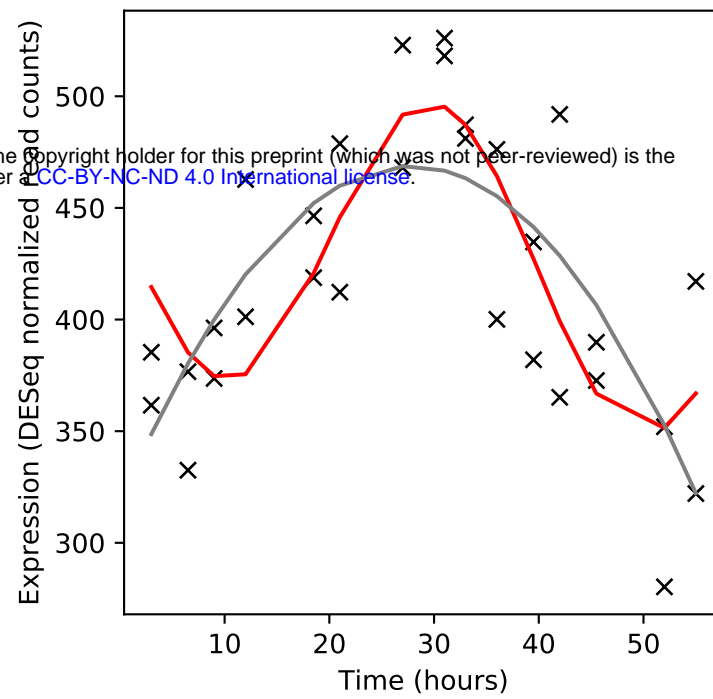
Rv3254c/-



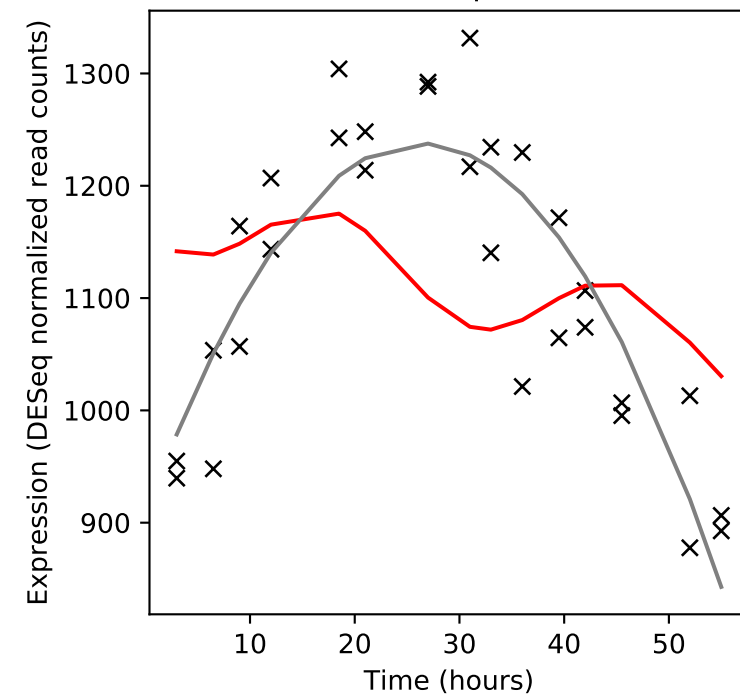
Rv3255c/maA



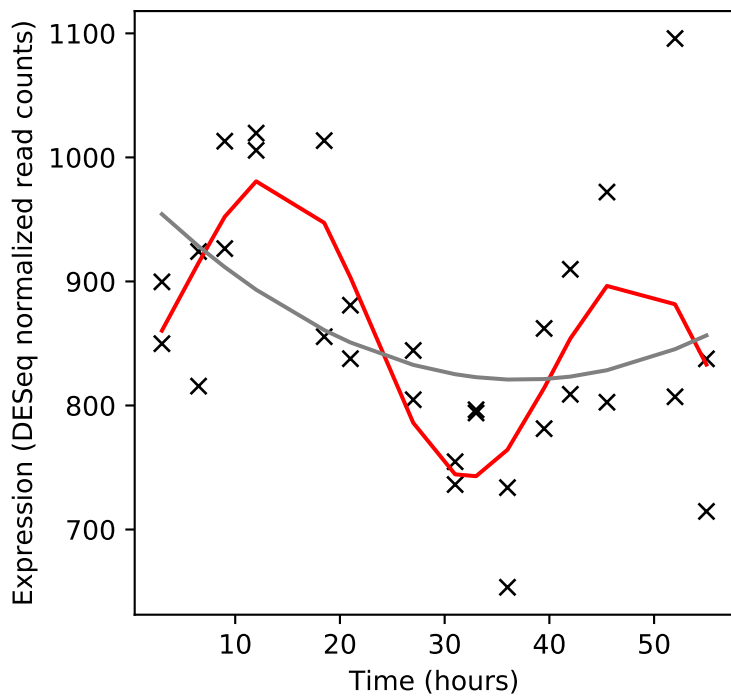
Rv3256c/-



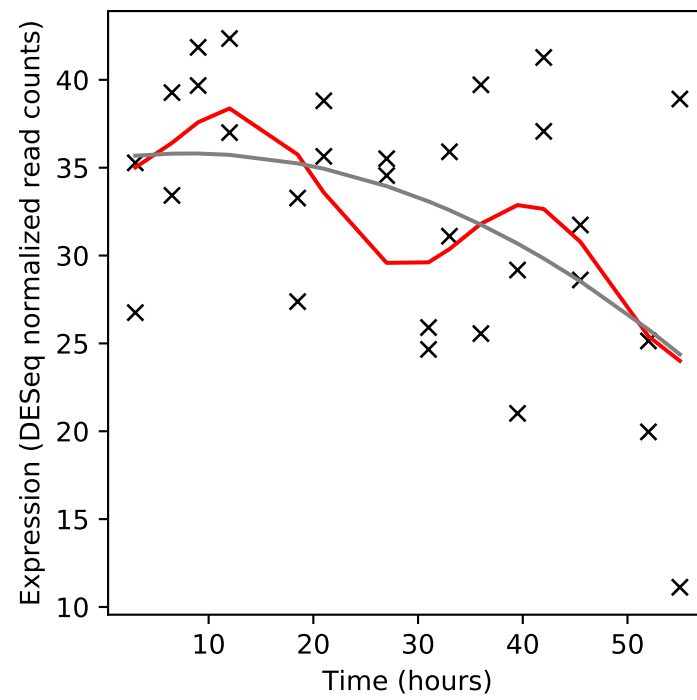
Rv3257c/pmmA



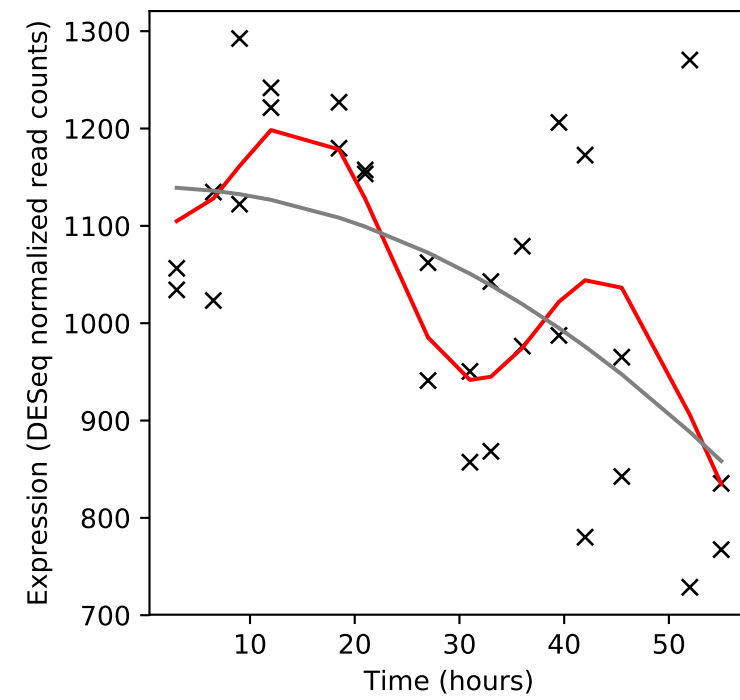
Rv3258c/-



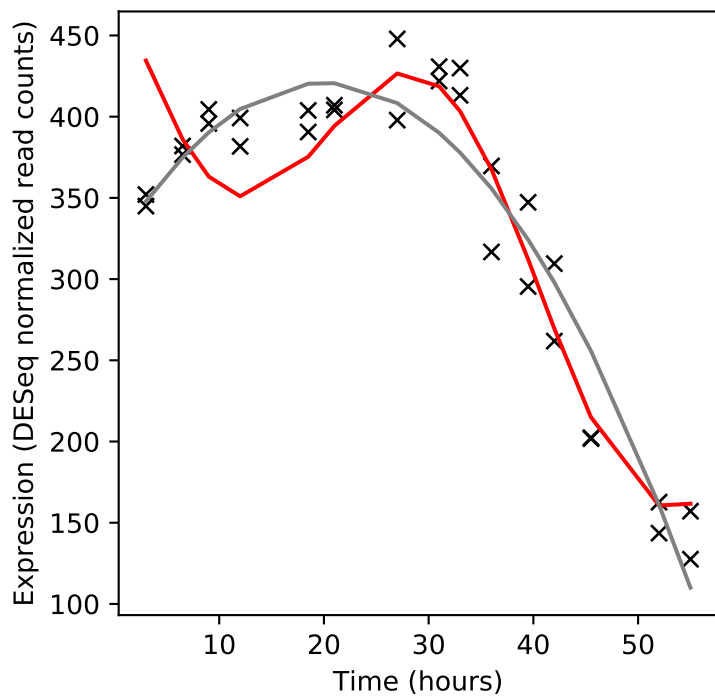
Rv3259c/-



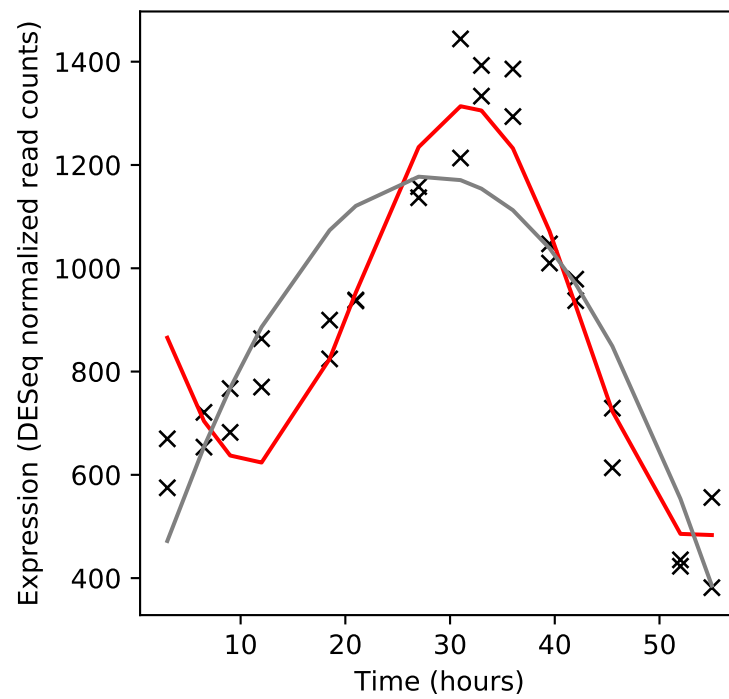
Rv3260c/whiB2



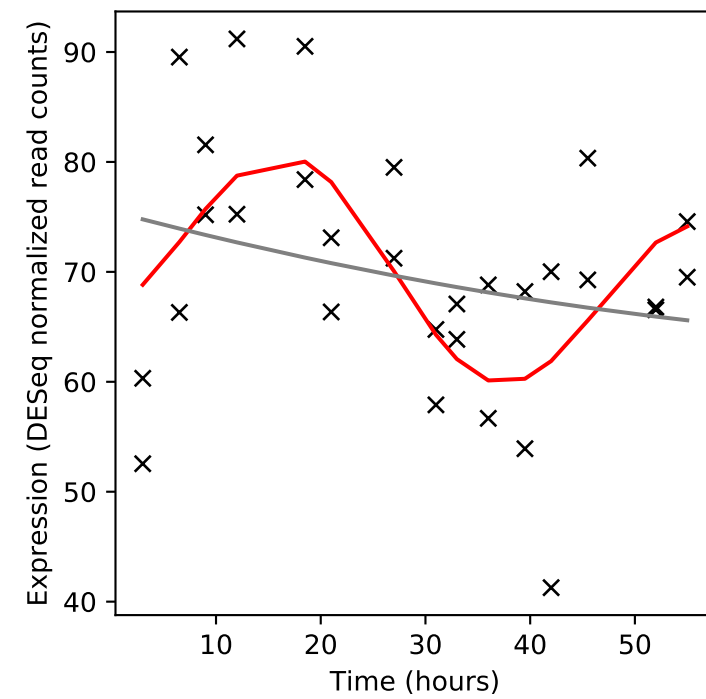
Rv3261c/fbiA



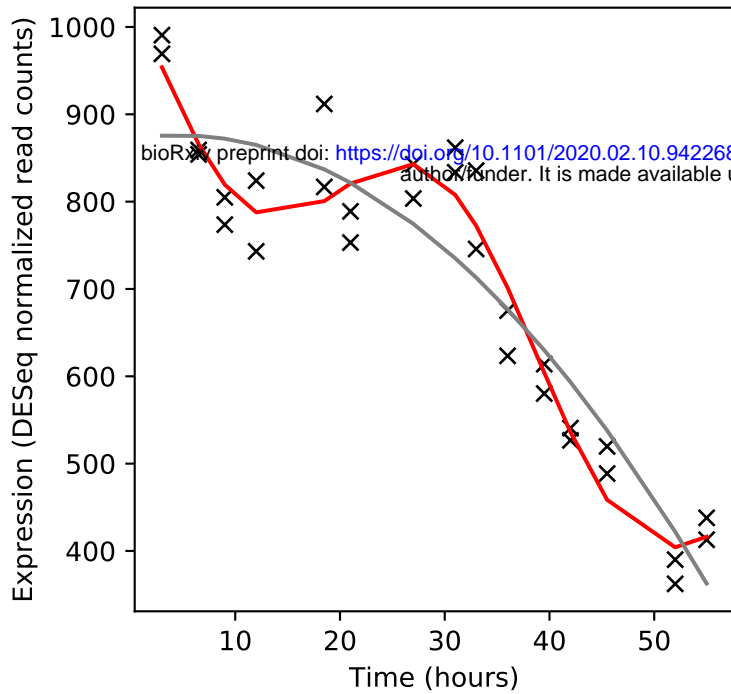
Rv3262c/fbiB



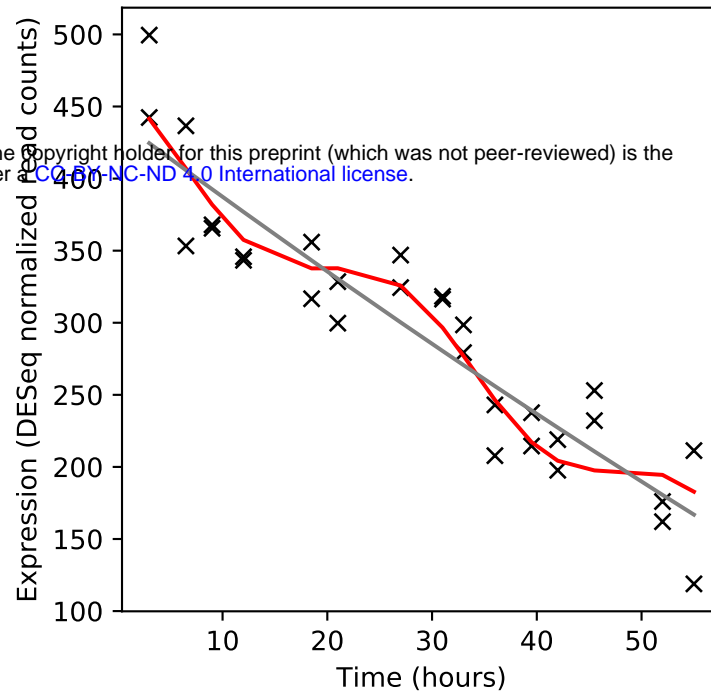
Rv3263c/-



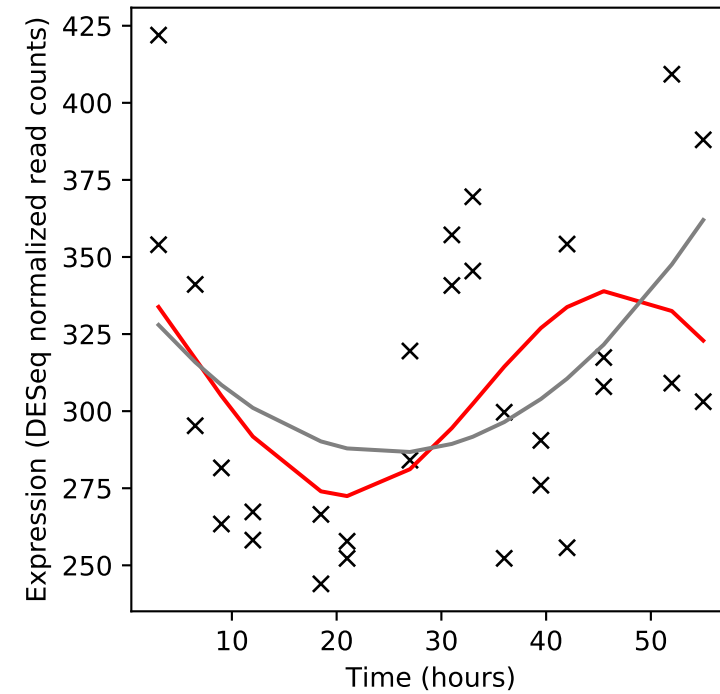
Rv3264c/manB



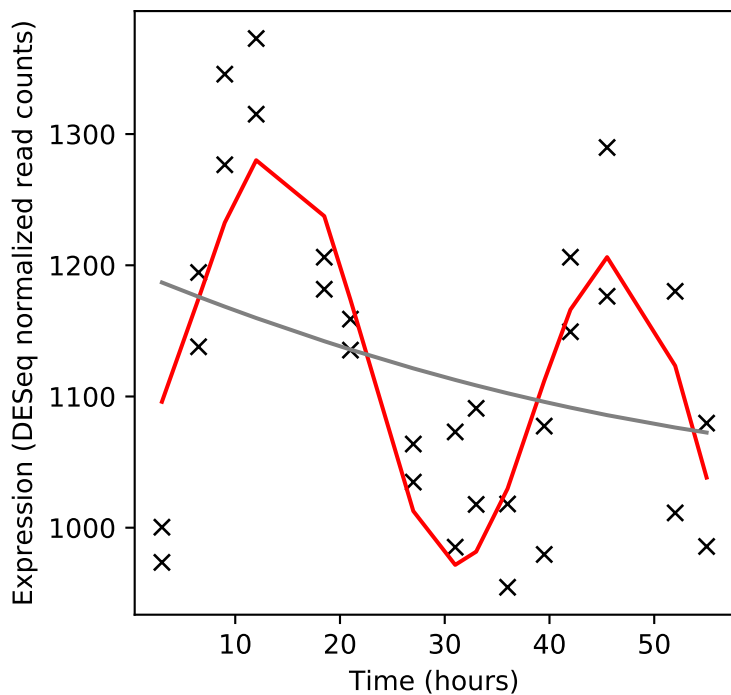
Rv3265c/wbbL1



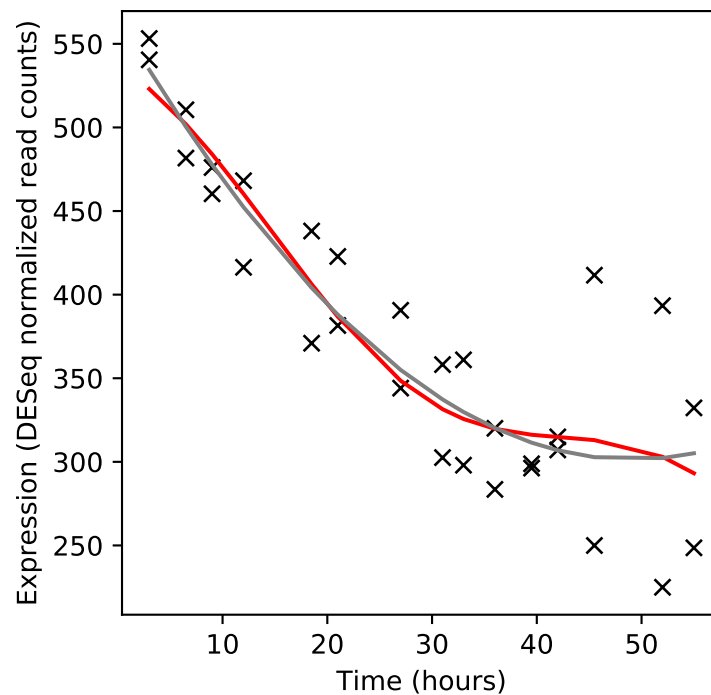
Rv3266c/rmlD



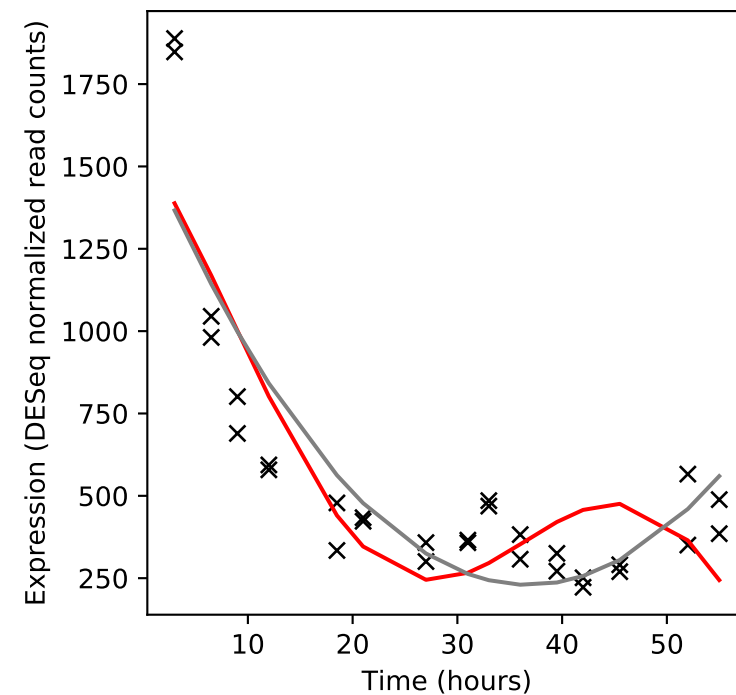
Rv3267/-



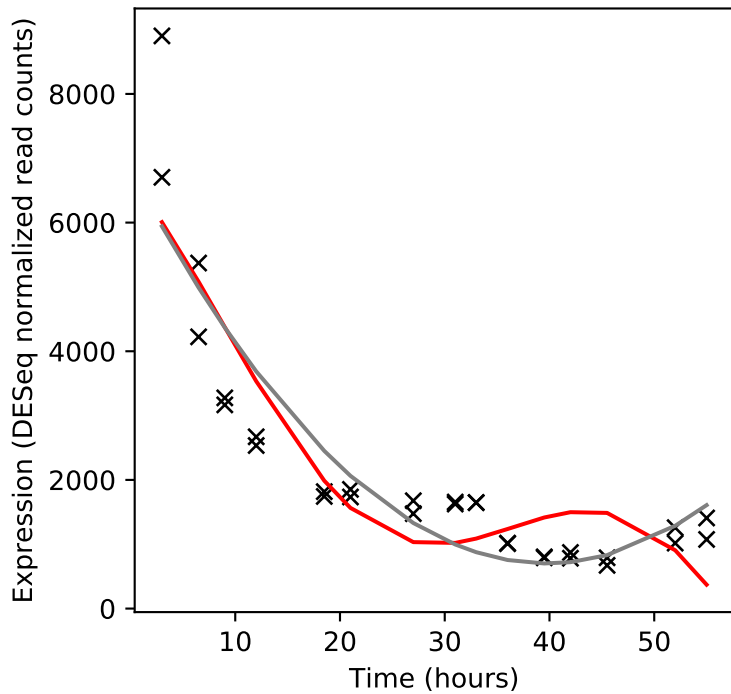
Rv3268/-



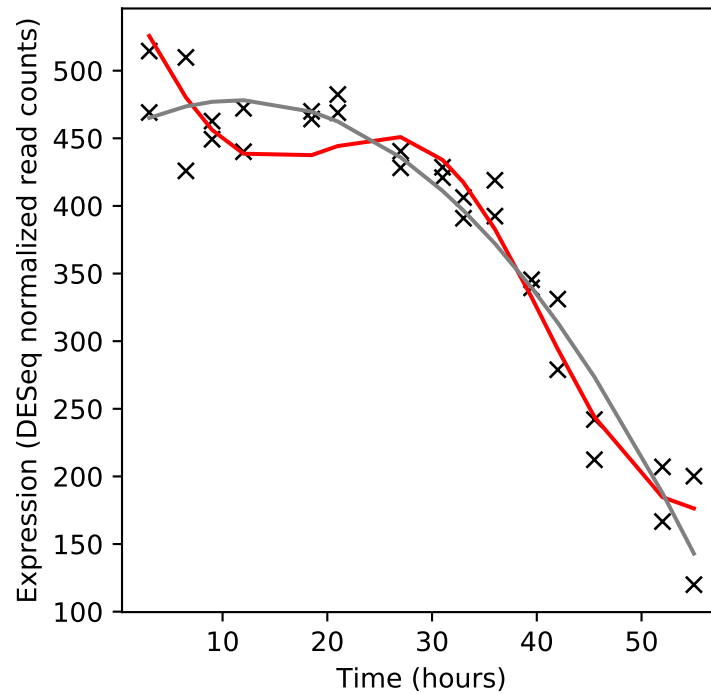
Rv3269/-



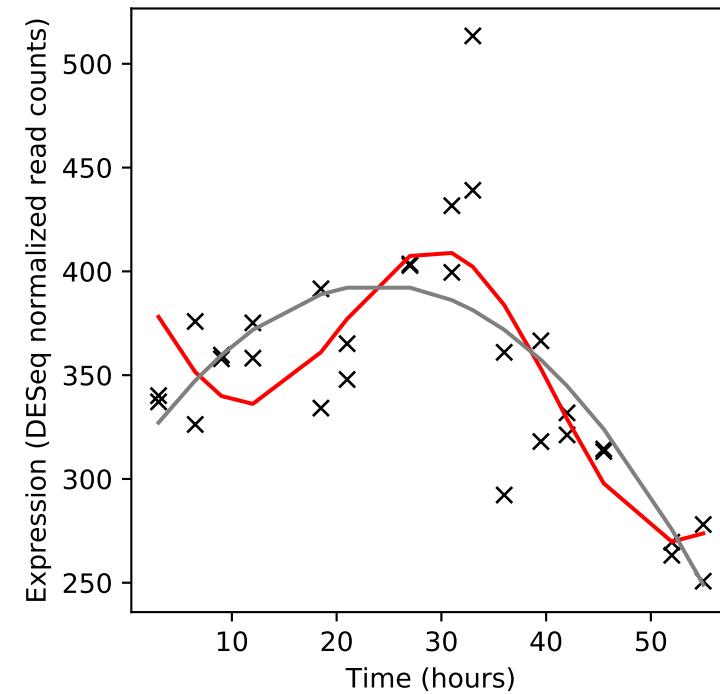
Rv3270/ctpC



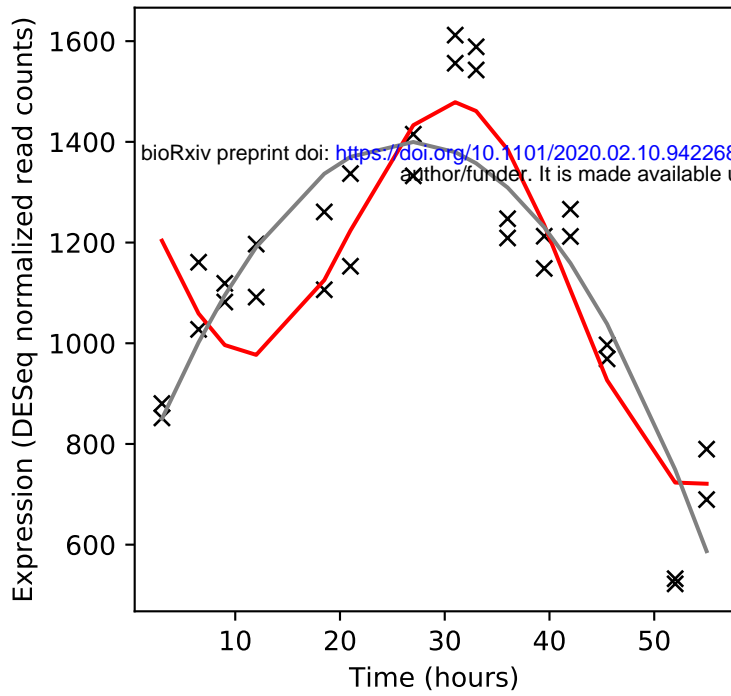
Rv3271c/-



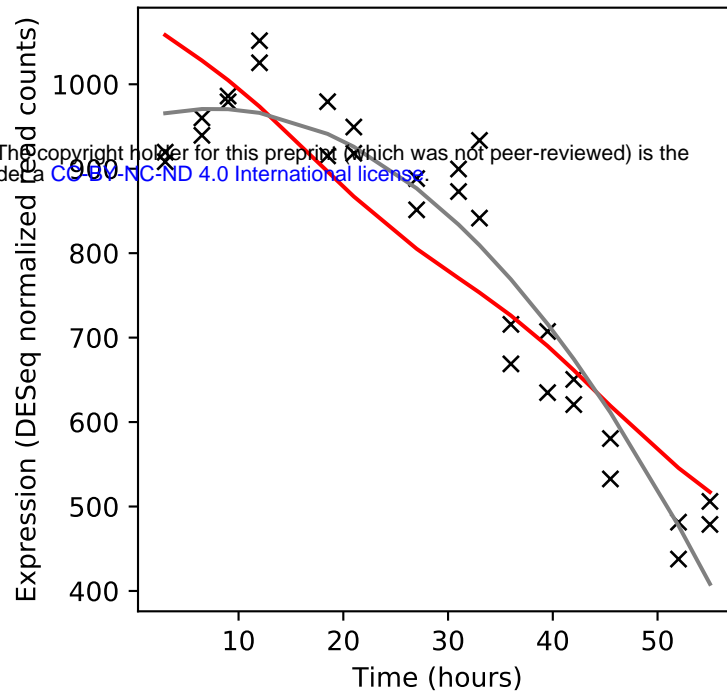
Rv3272/-



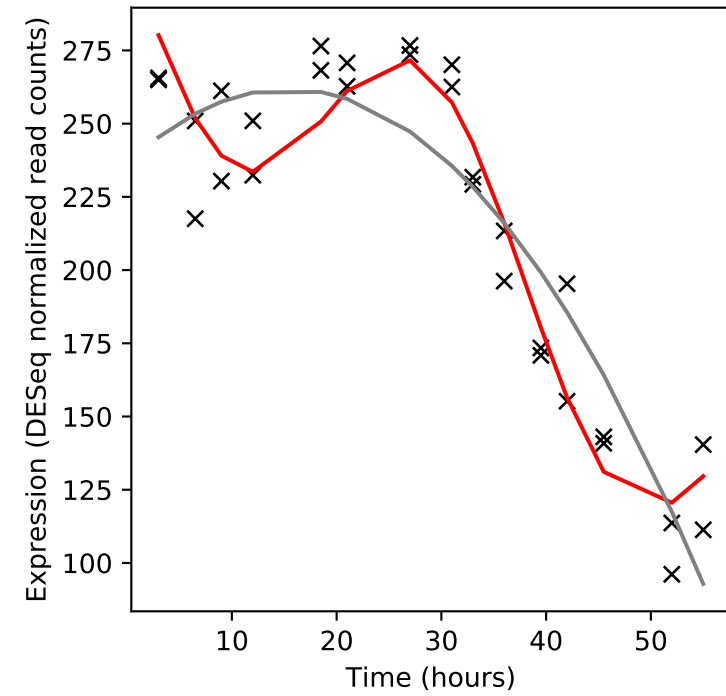
Rv3273/-



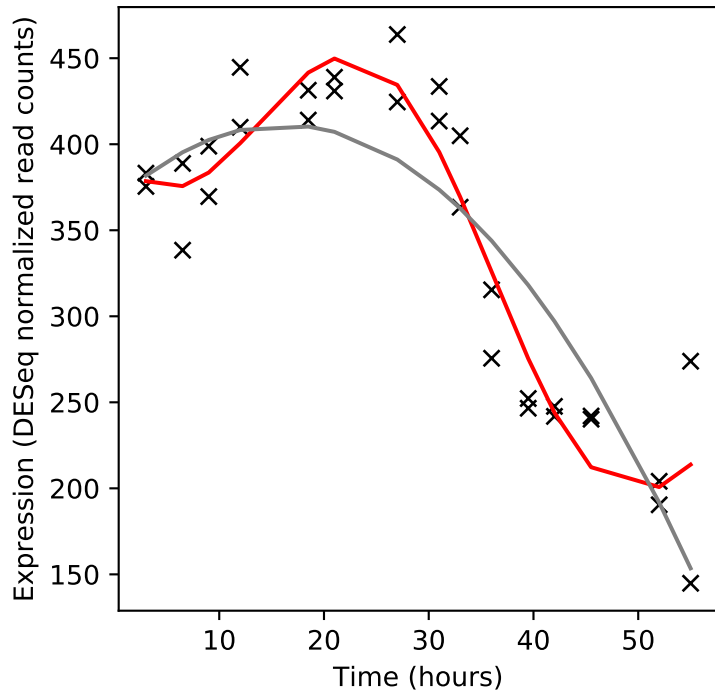
Rv3274c/fadE25



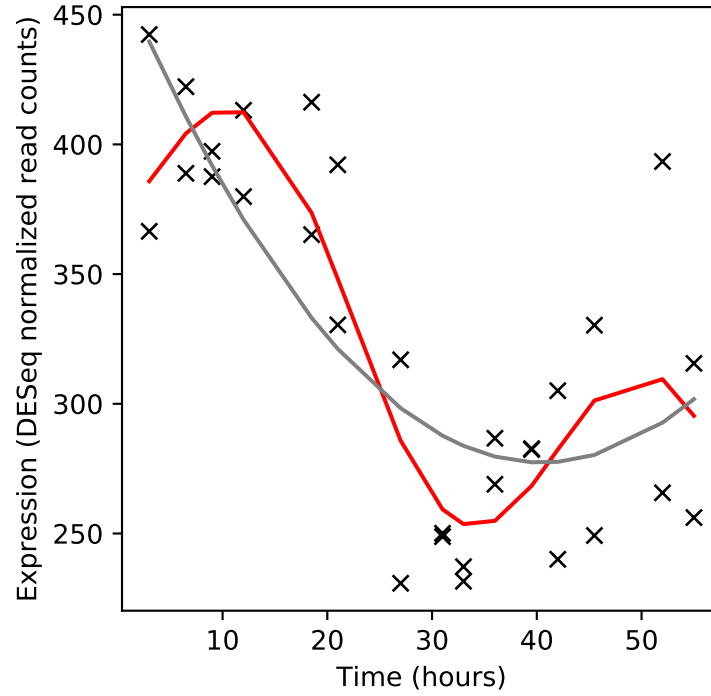
Rv3275c/purE



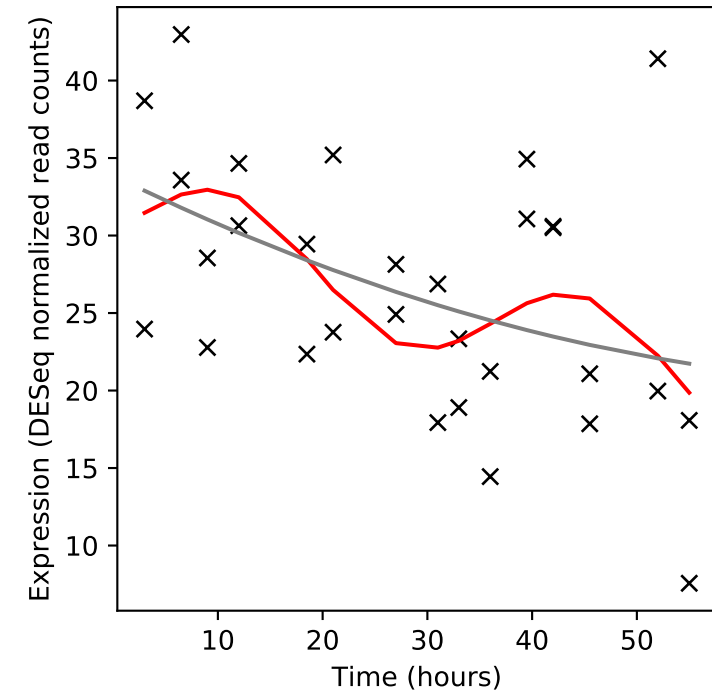
Rv3276c/purK



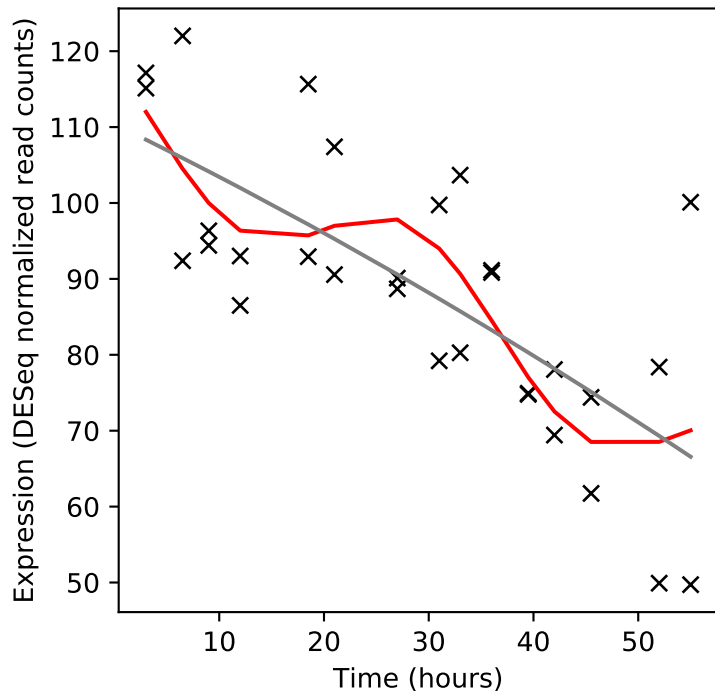
Rv3277/-



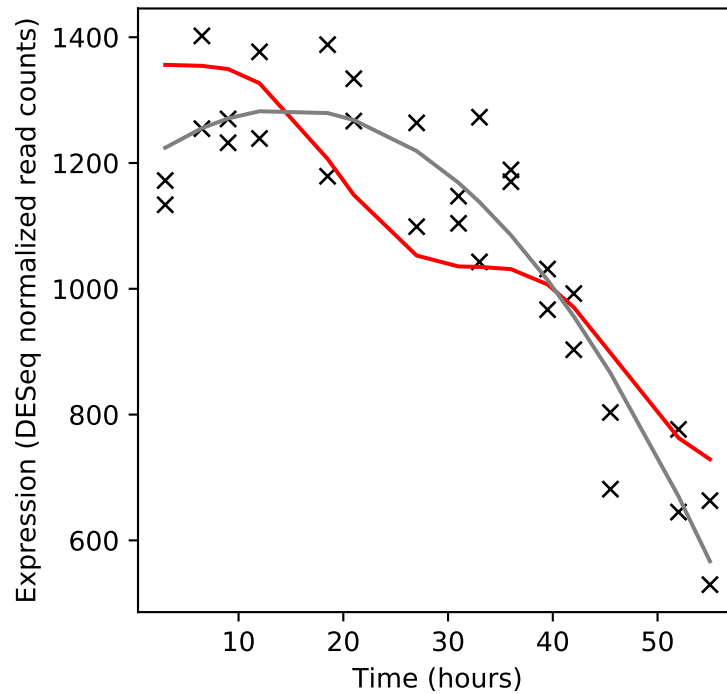
Rv3278c/-



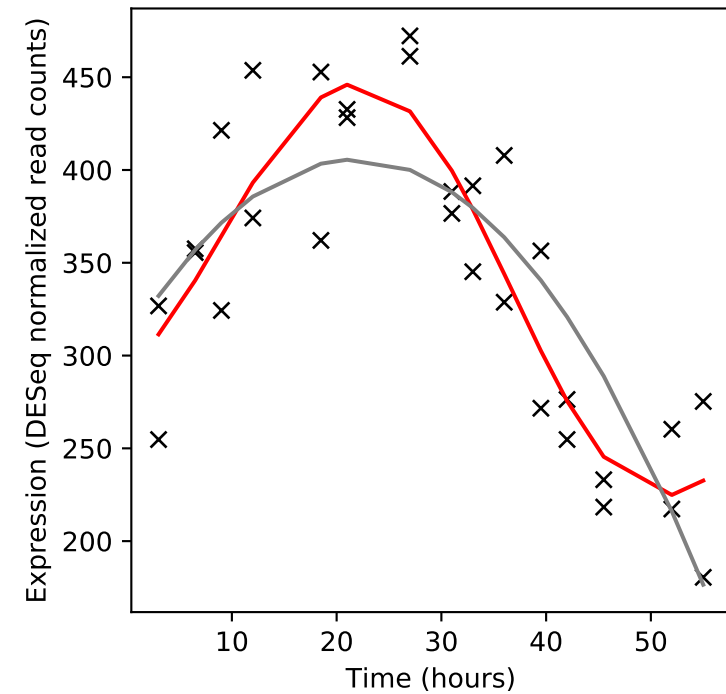
Rv3279c/birA



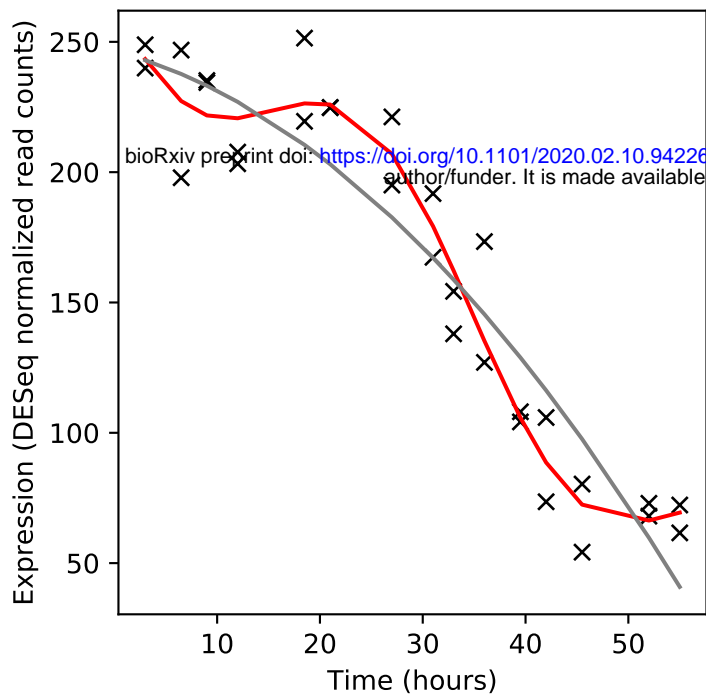
Rv3280/accD5



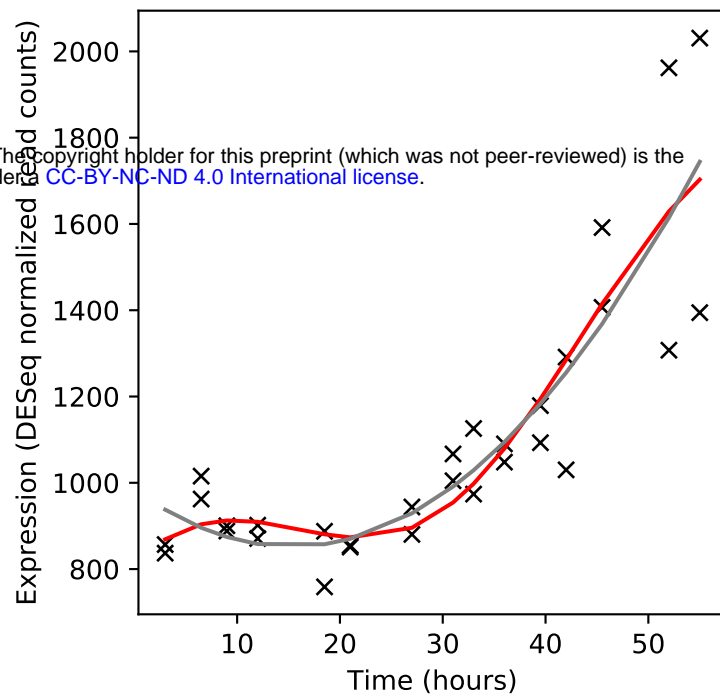
Rv3281/accE5



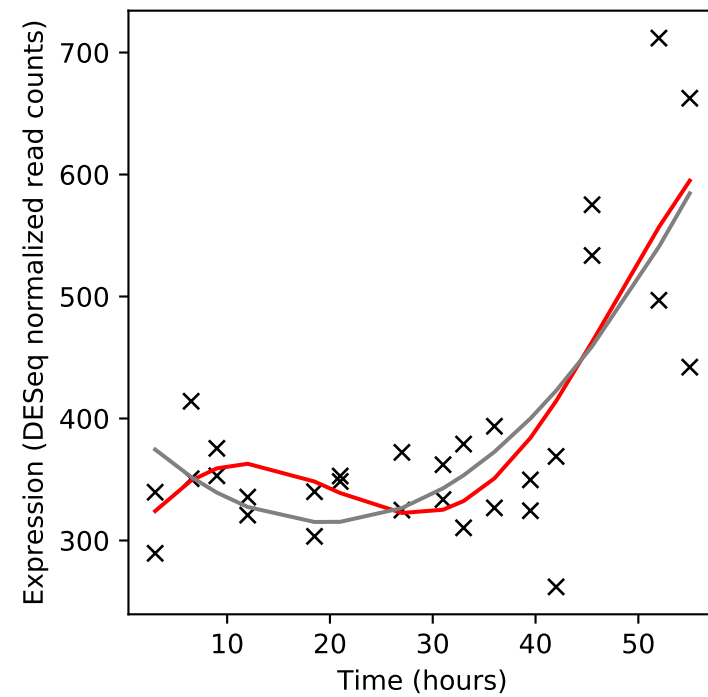
Rv3282/-



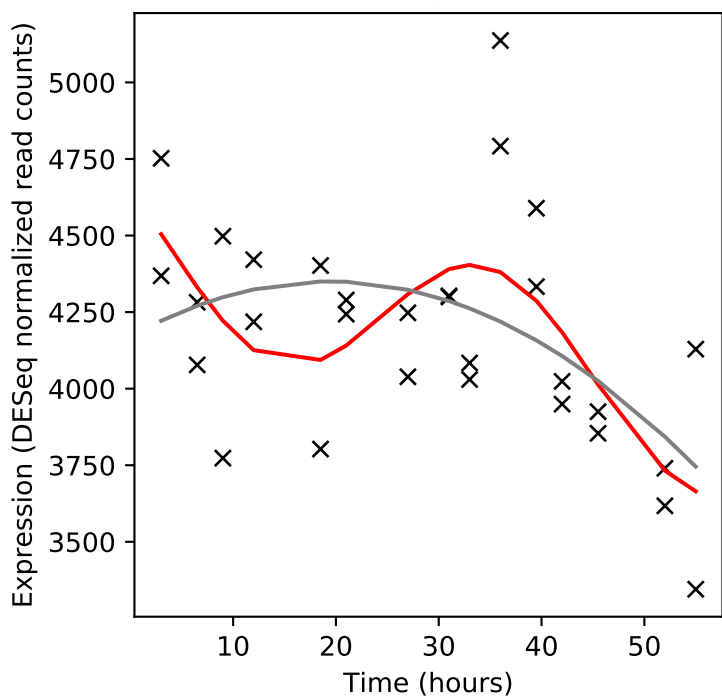
Rv3283/sseA



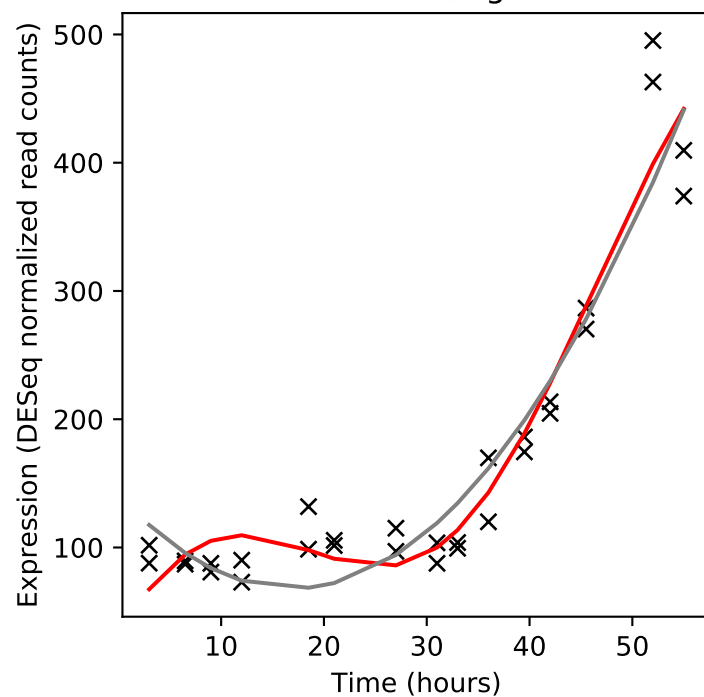
Rv3284/-



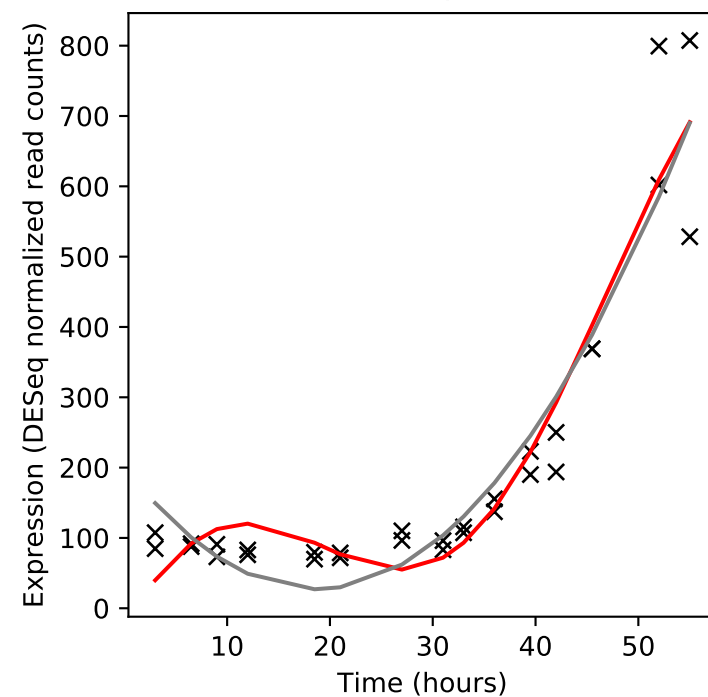
Rv3285/accA3



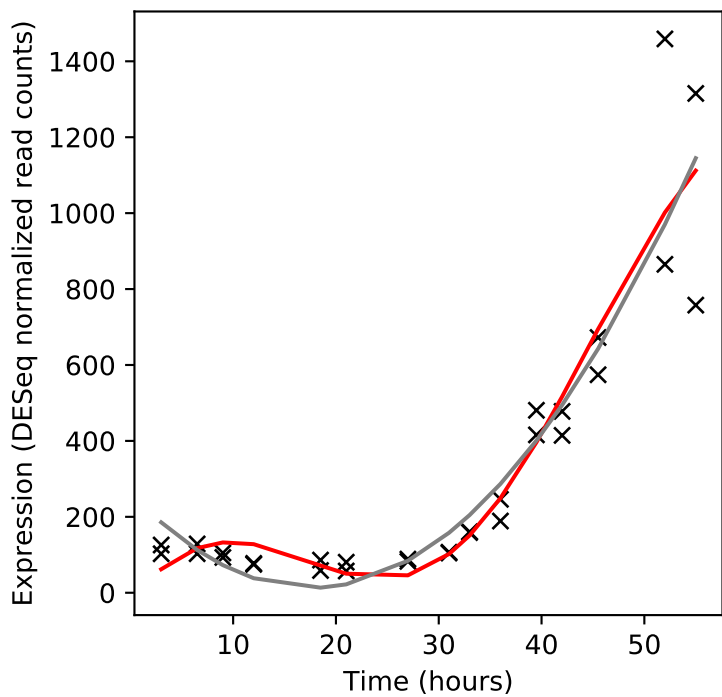
Rv3286c/sigF



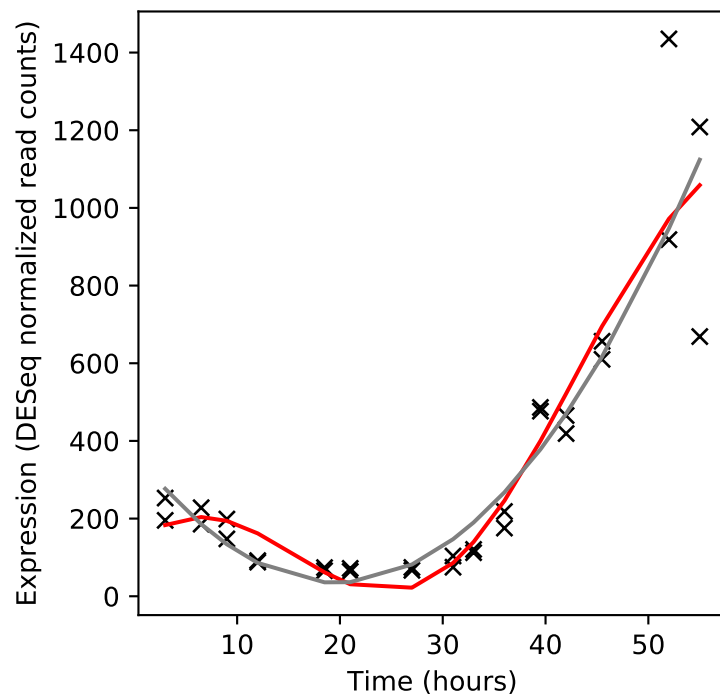
Rv3287c/rsbW



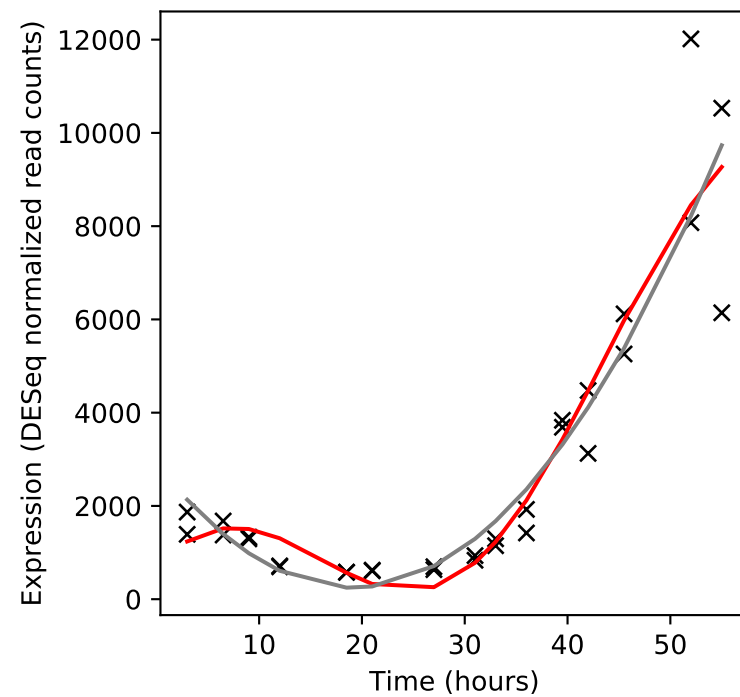
Rv3288c/usfY



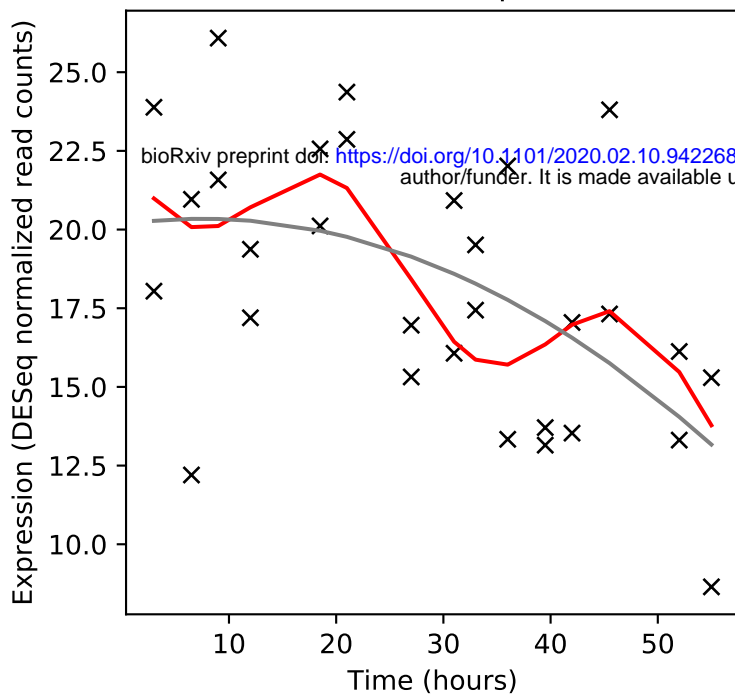
Rv3289c/-



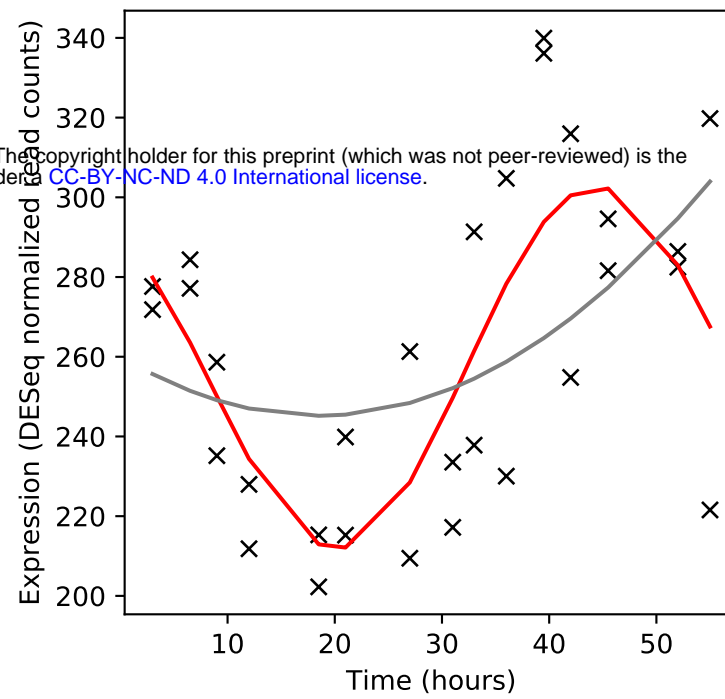
Rv3290c/lat



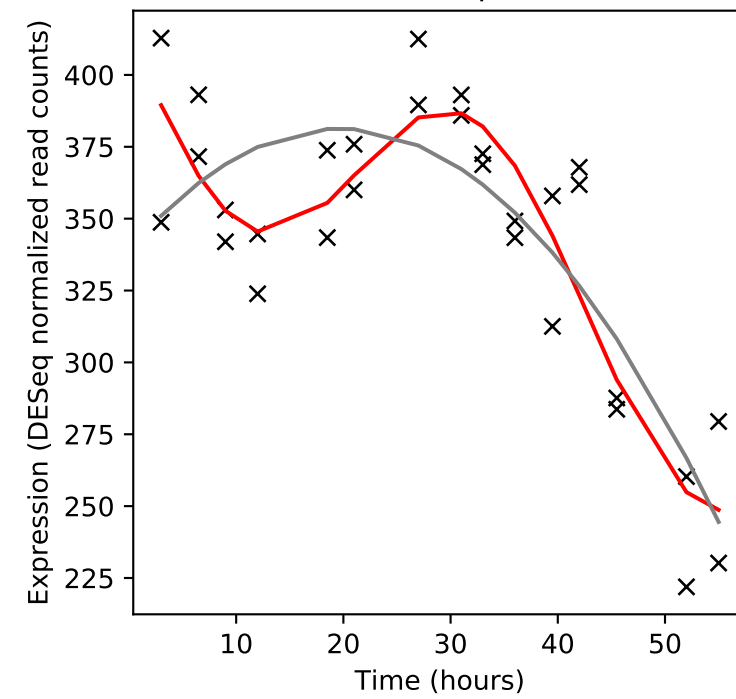
Rv3291c/lrpA



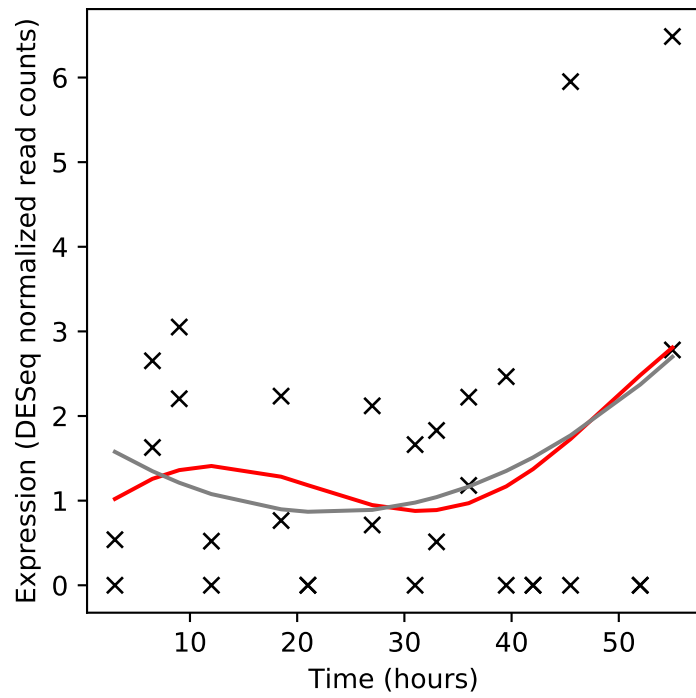
Rv3292/-



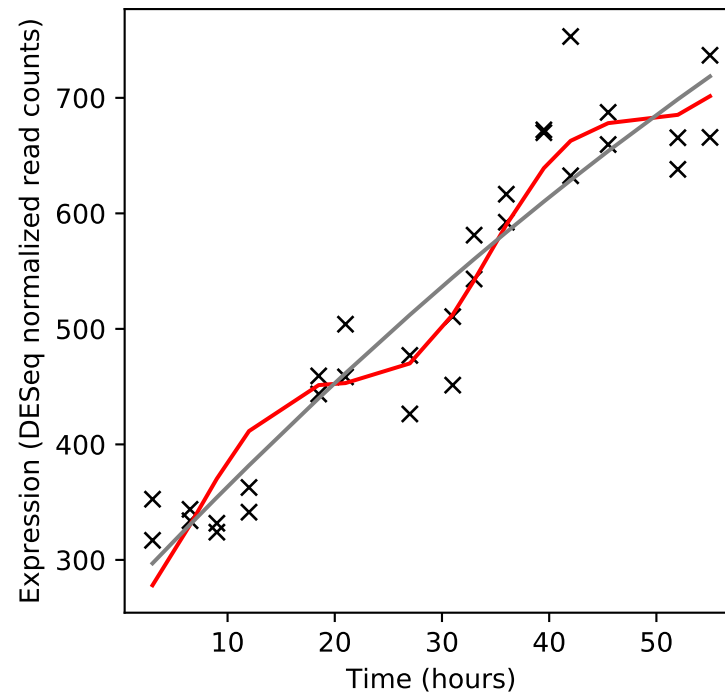
Rv3293/pcd



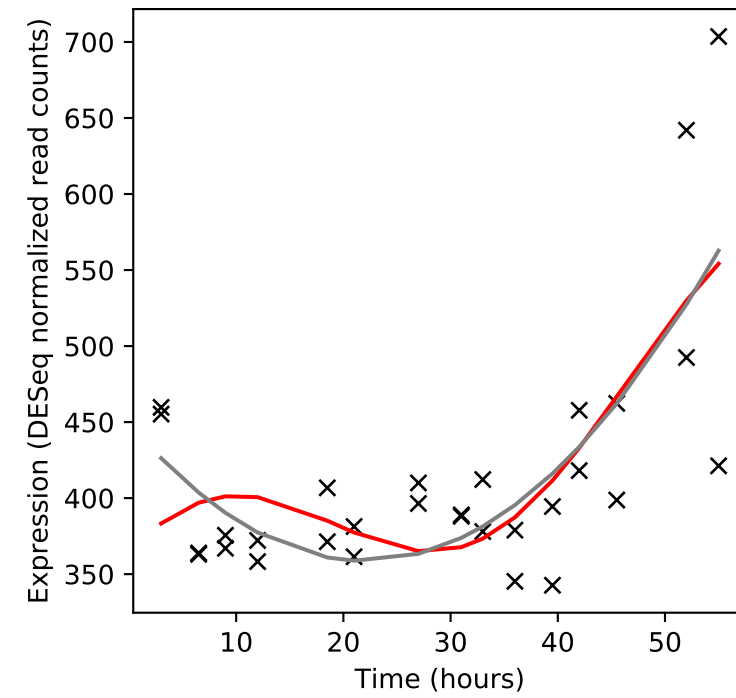
Rv3294c/-



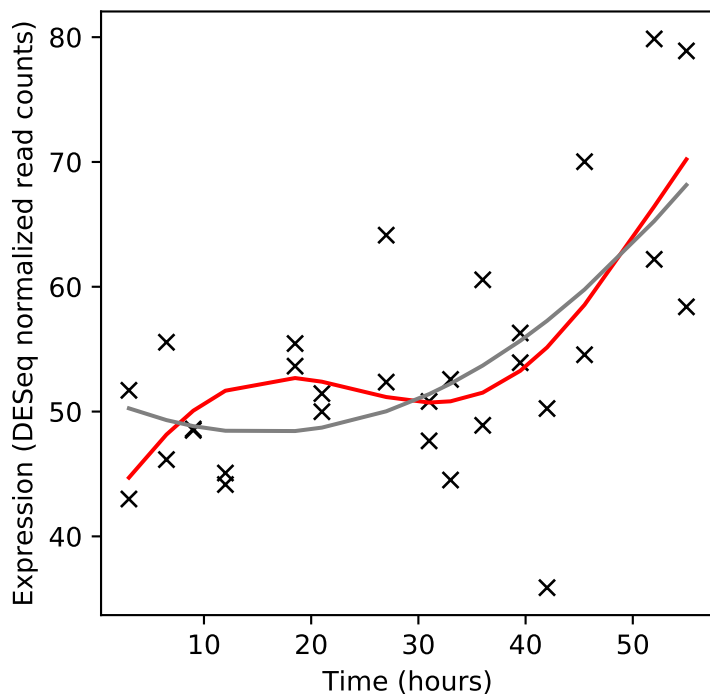
Rv3295/-



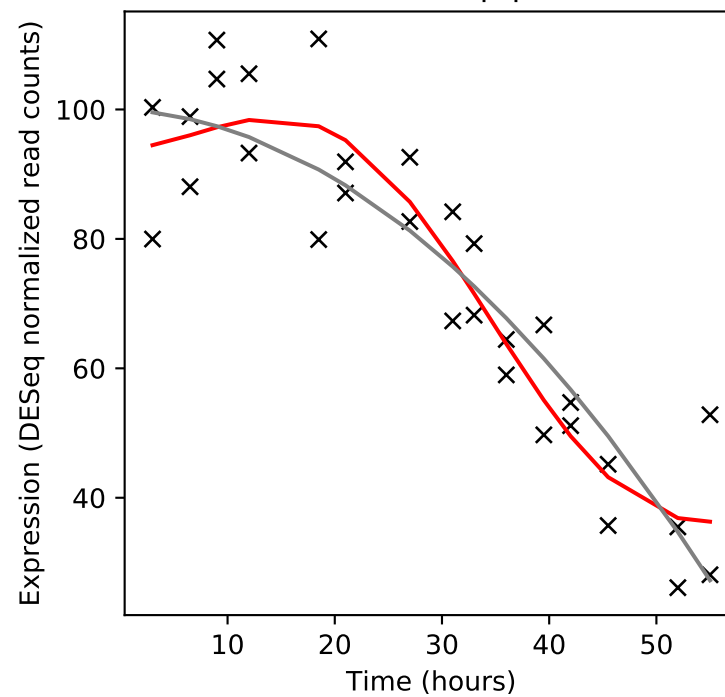
Rv3296/lhr



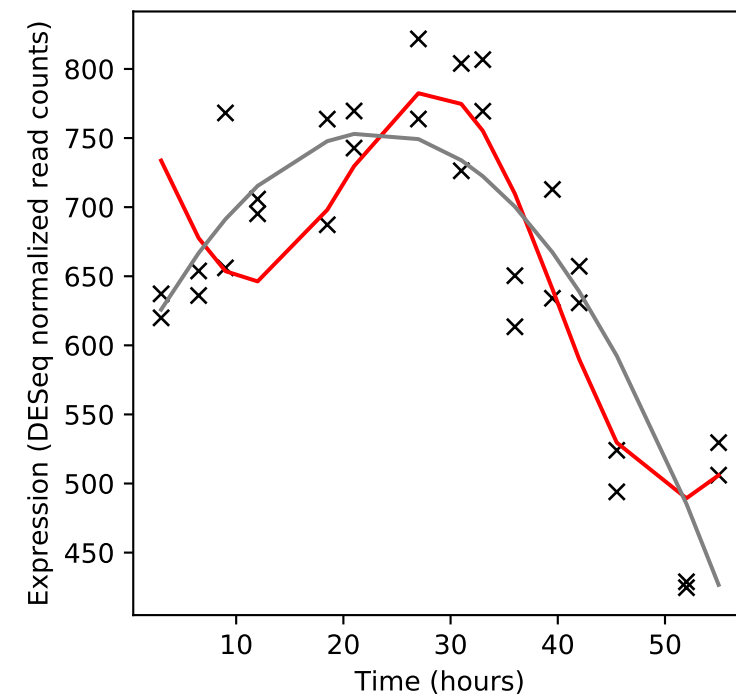
Rv3297/nei



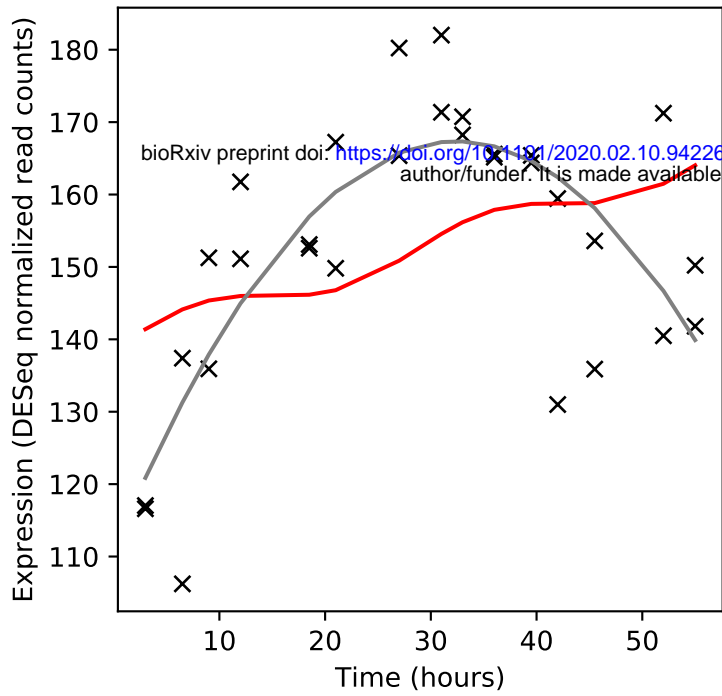
Rv3298c/lpqC



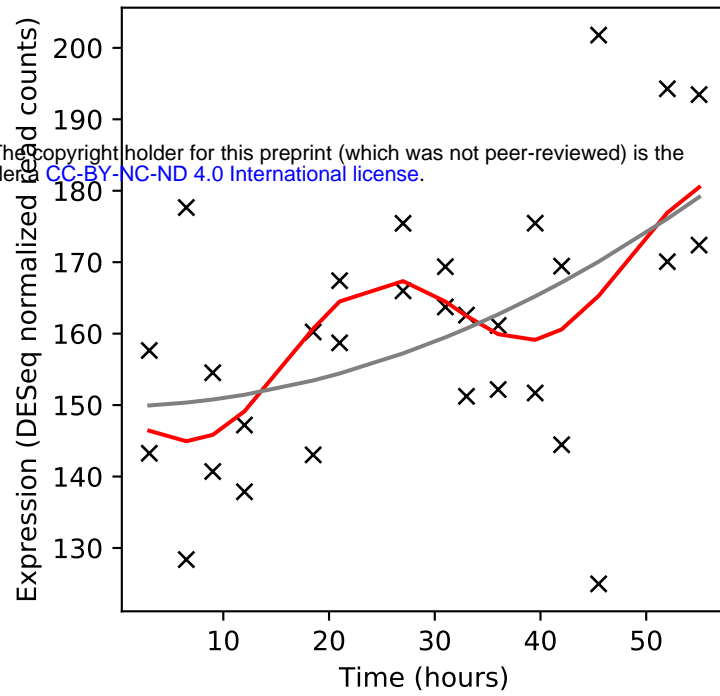
Rv3299c/atsB



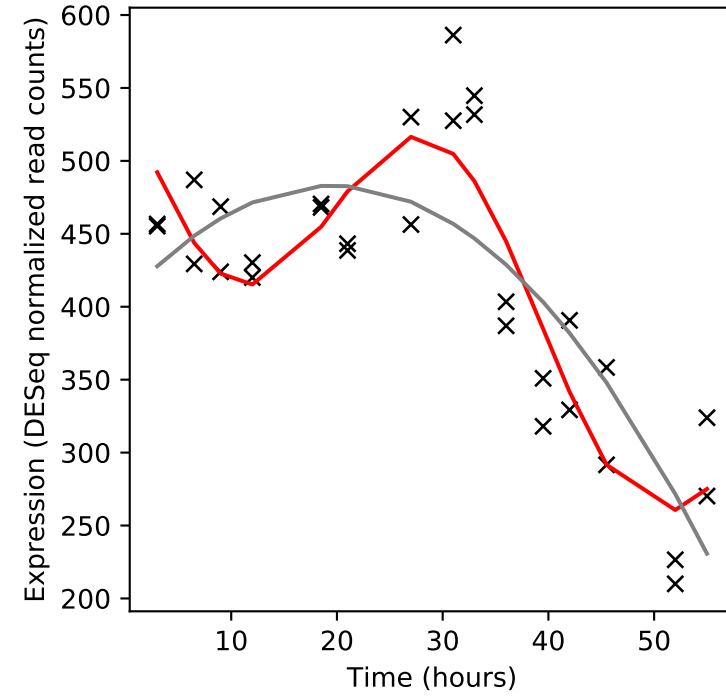
Rv3300c/-



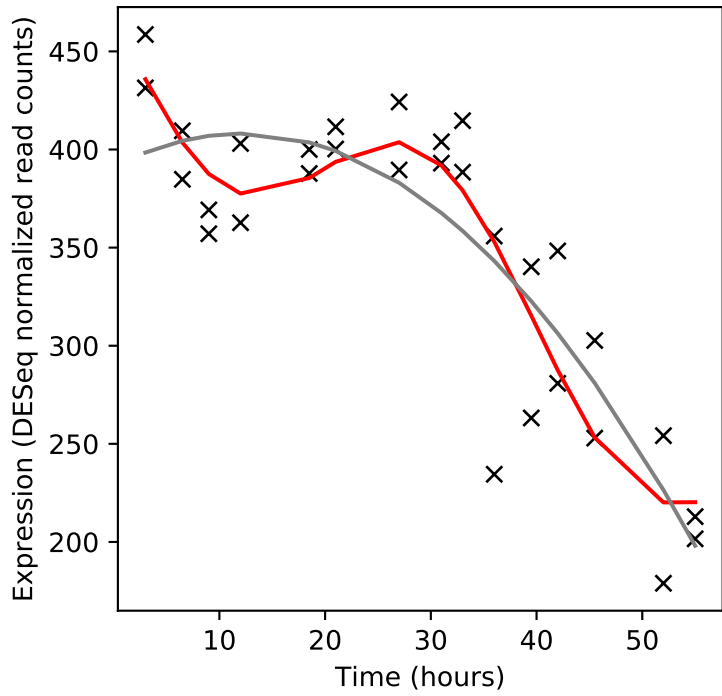
Rv3301c/phoY1



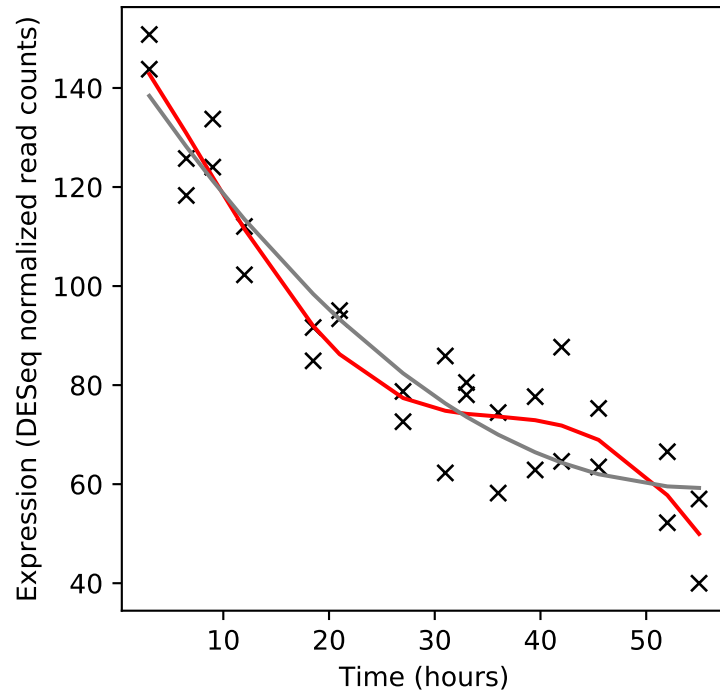
Rv3302c/glpD2



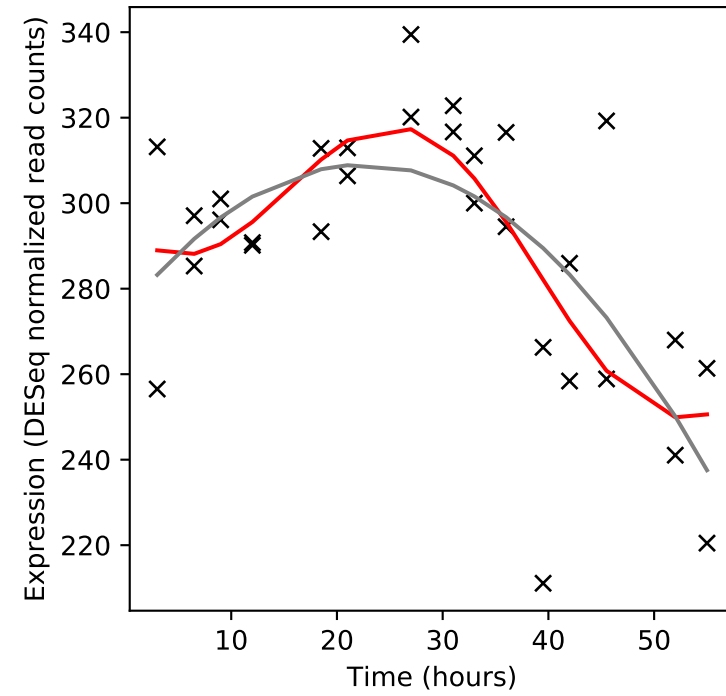
Rv3303c/lpdA



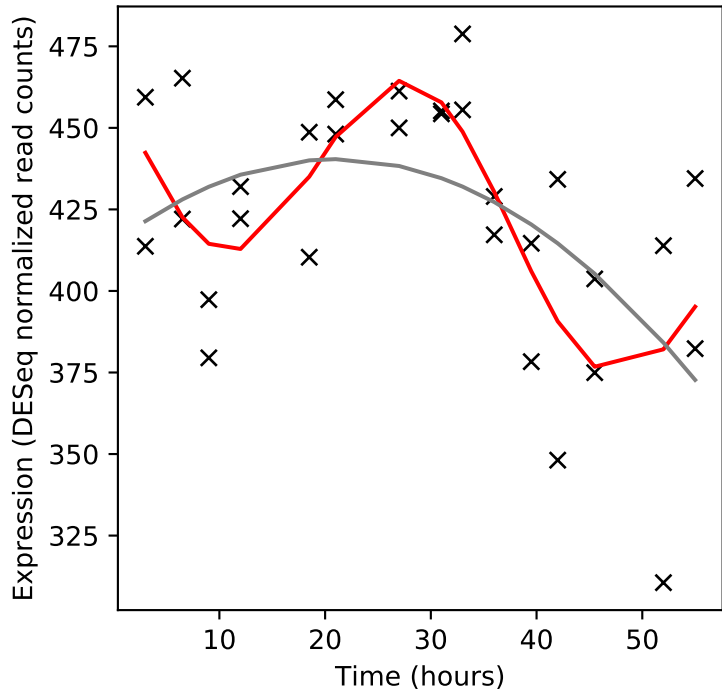
Rv3304/-



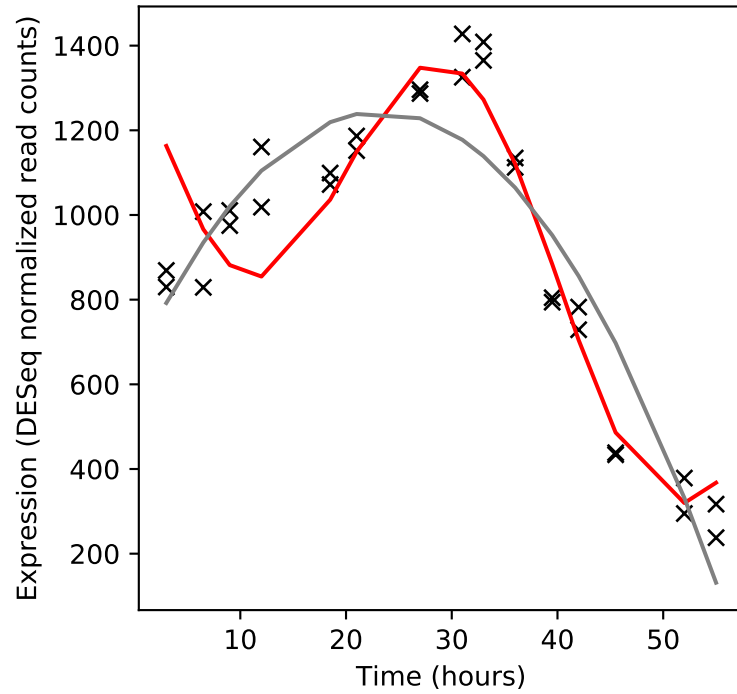
Rv3305c/amiA1



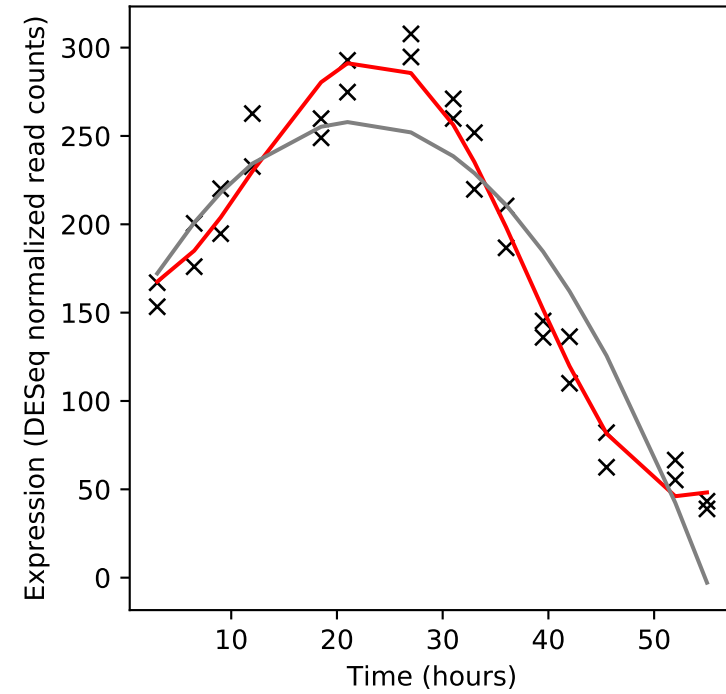
Rv3306c/amiB1



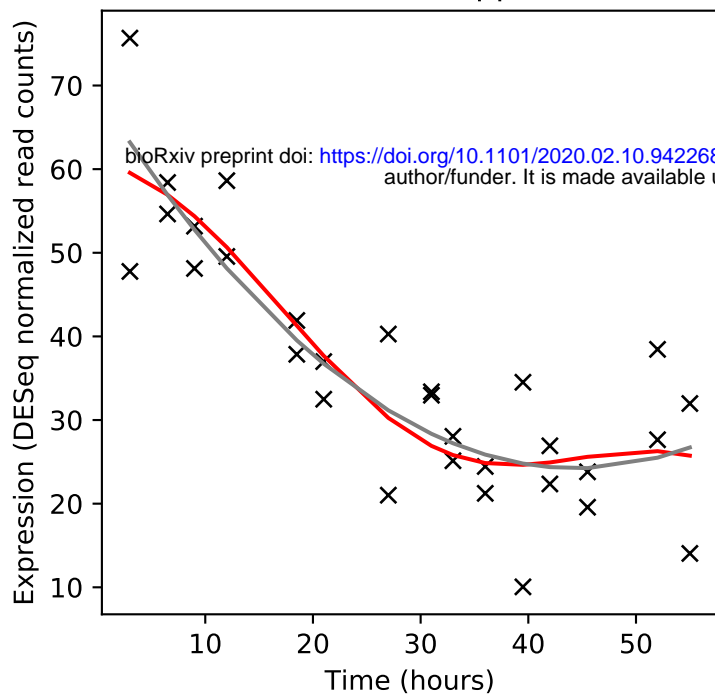
Rv3307/deoD



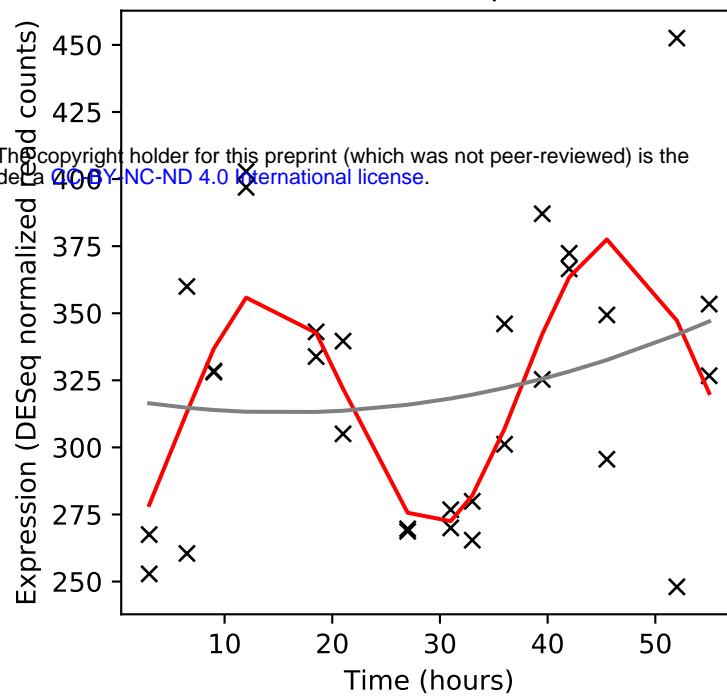
Rv3308/pmmB



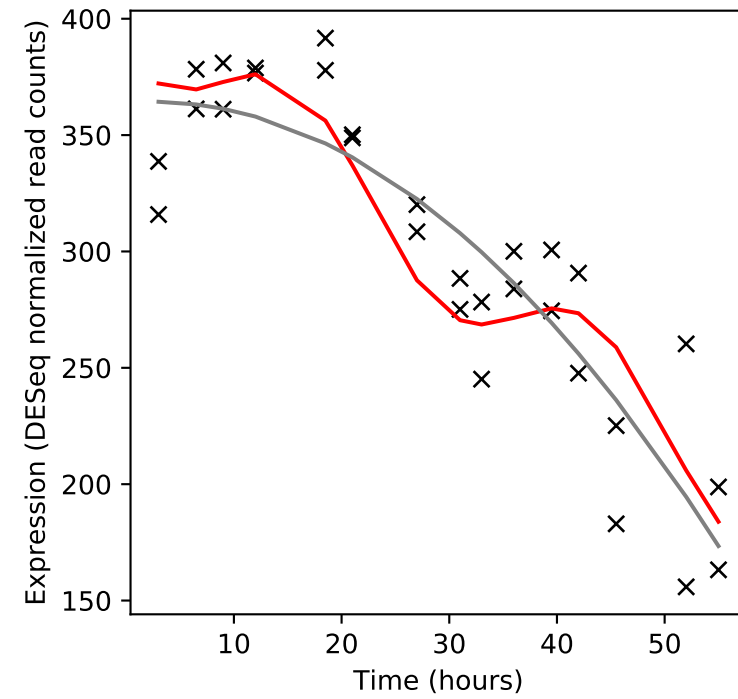
Rv3309c/upp



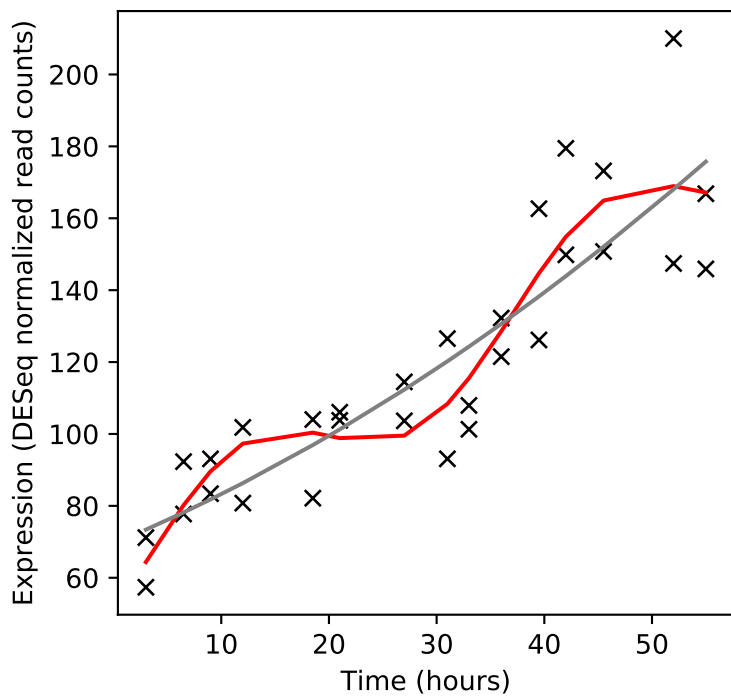
Rv3310/sapM



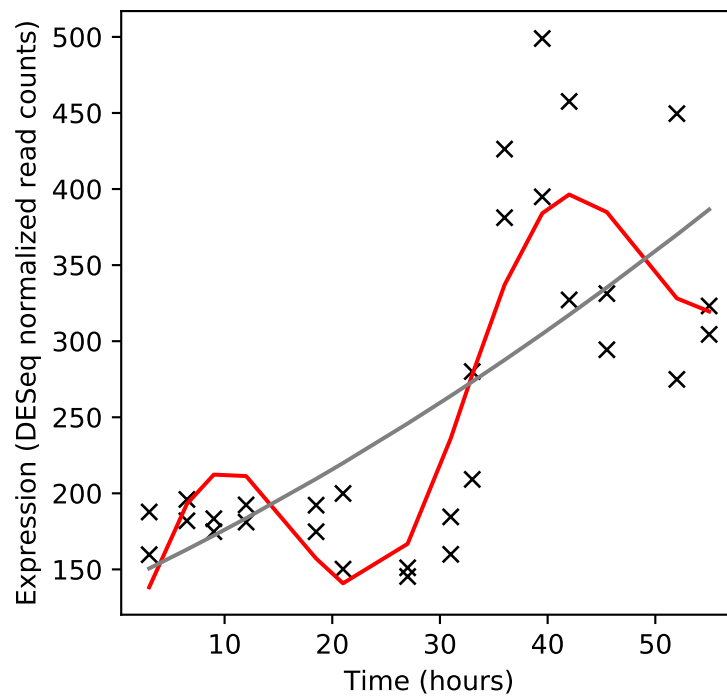
Rv3311/-



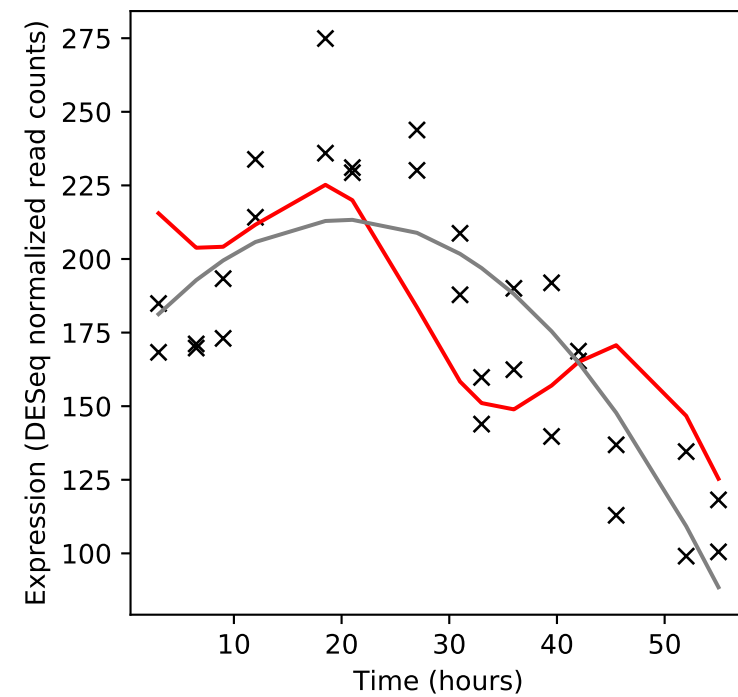
Rv3312c/-



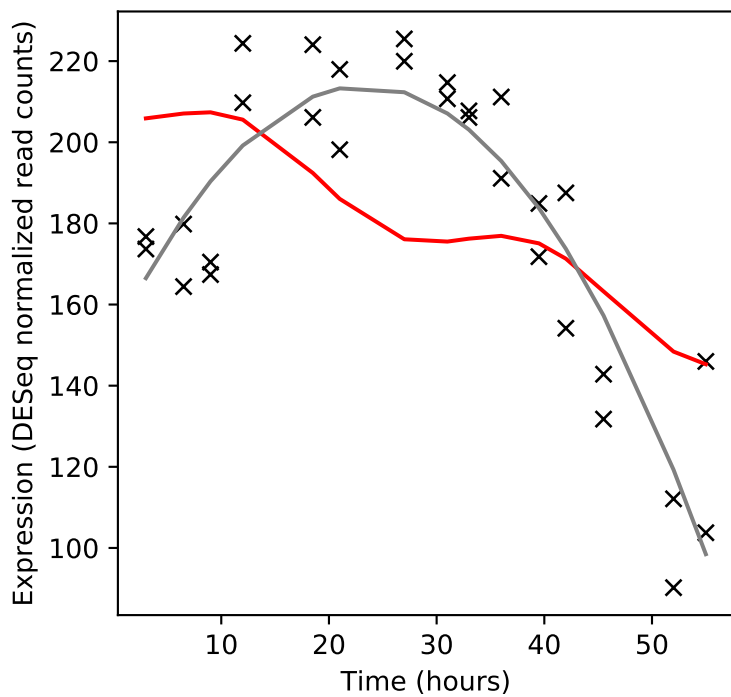
Rv3312A/-



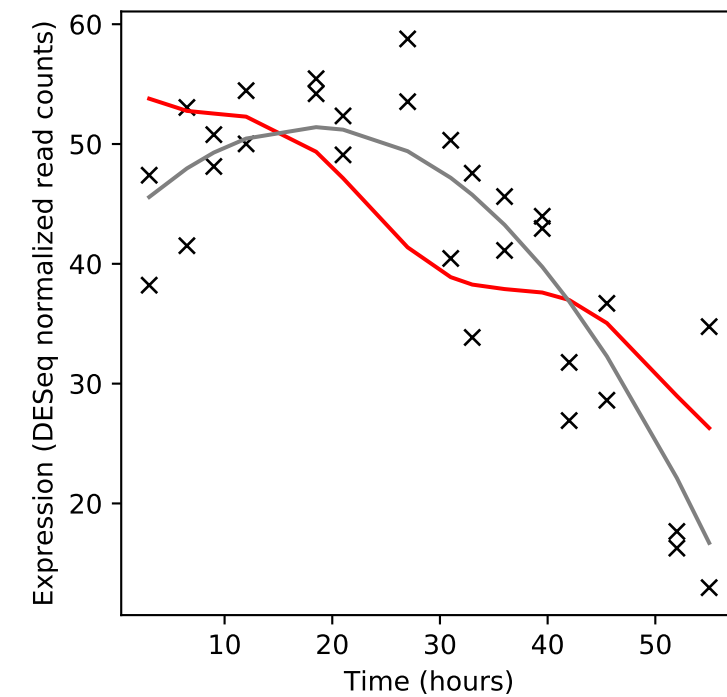
Rv3313c/add



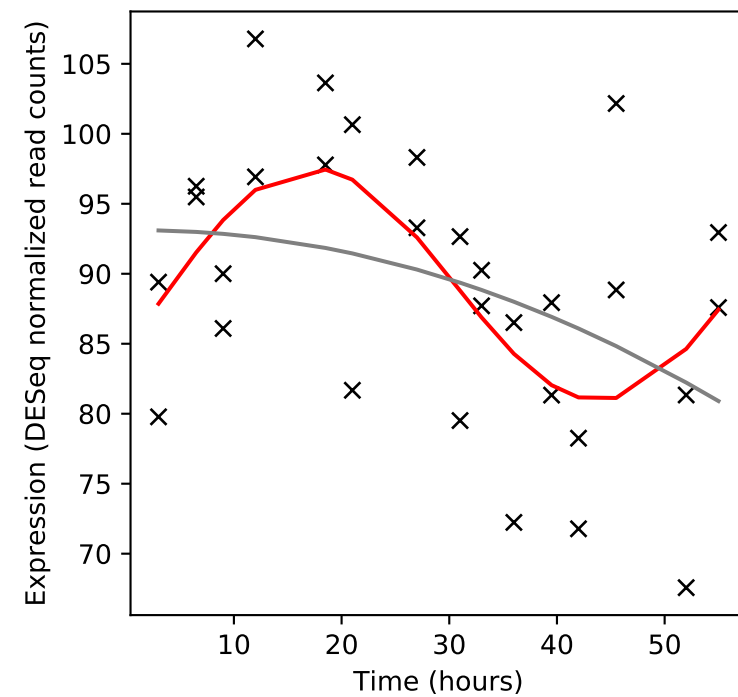
Rv3314c/deoA



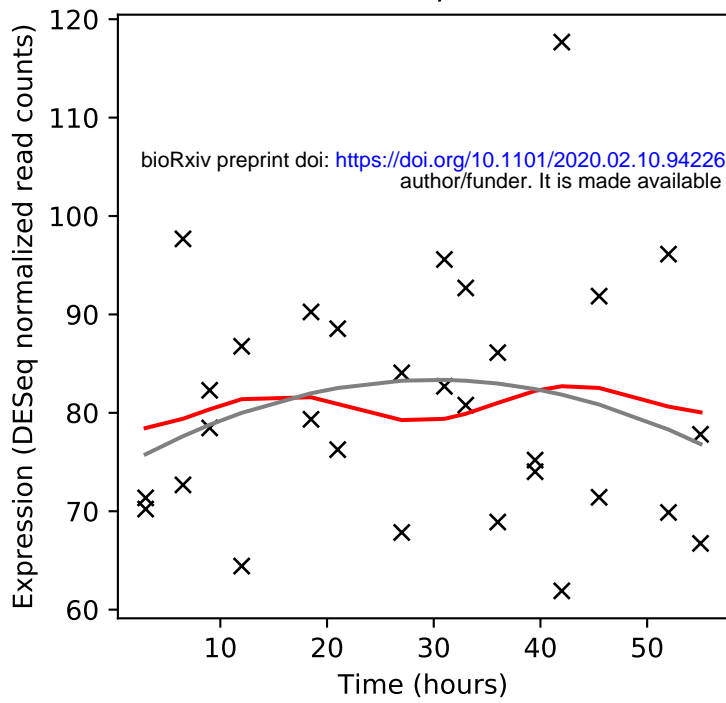
Rv3315c/cdd



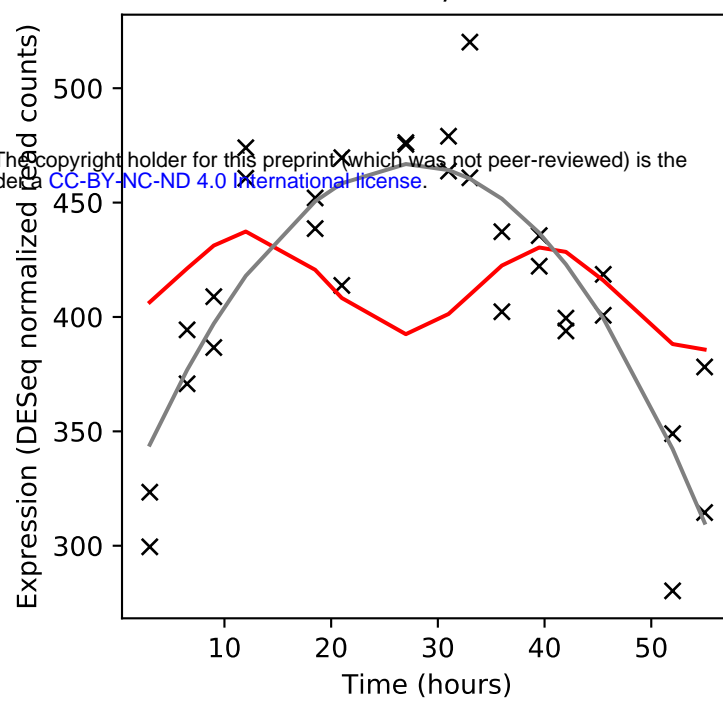
Rv3316/sdhC



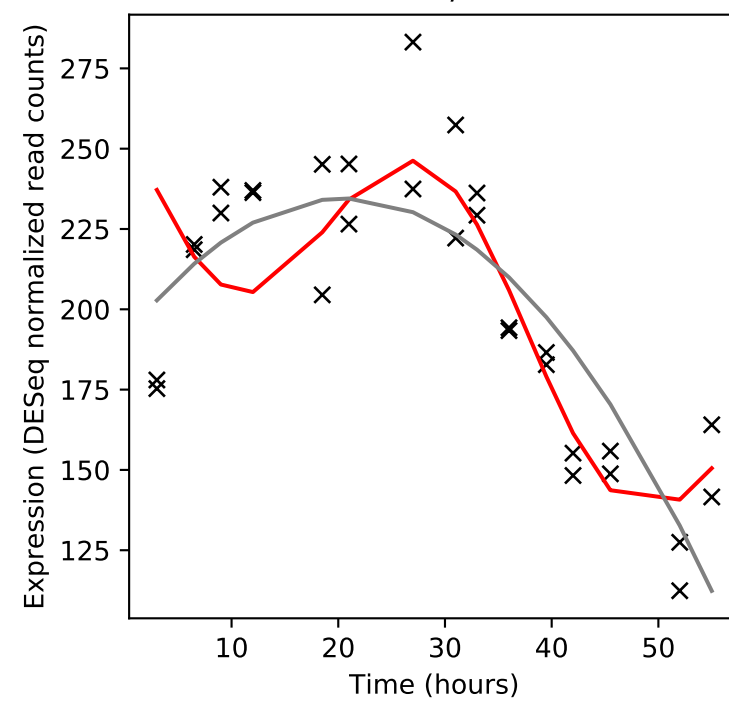
Rv3317/sdhD



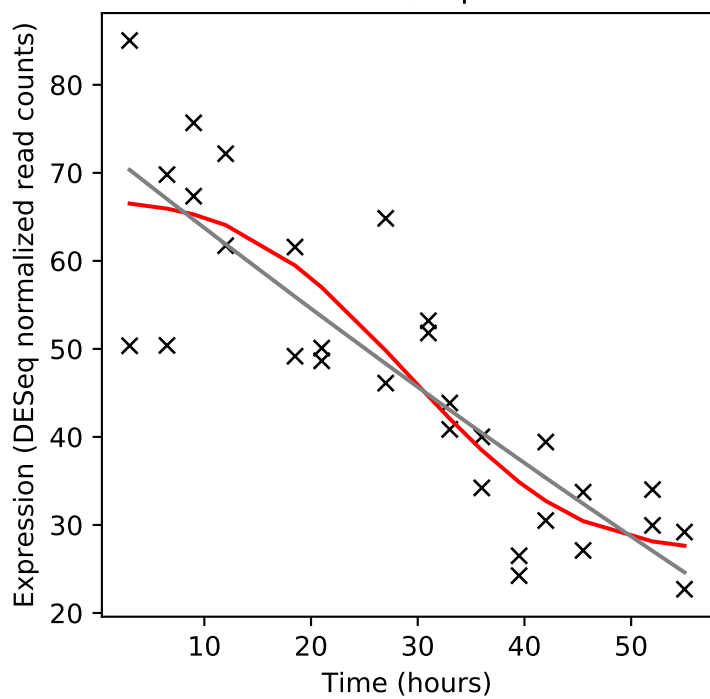
Rv3318/sdhA



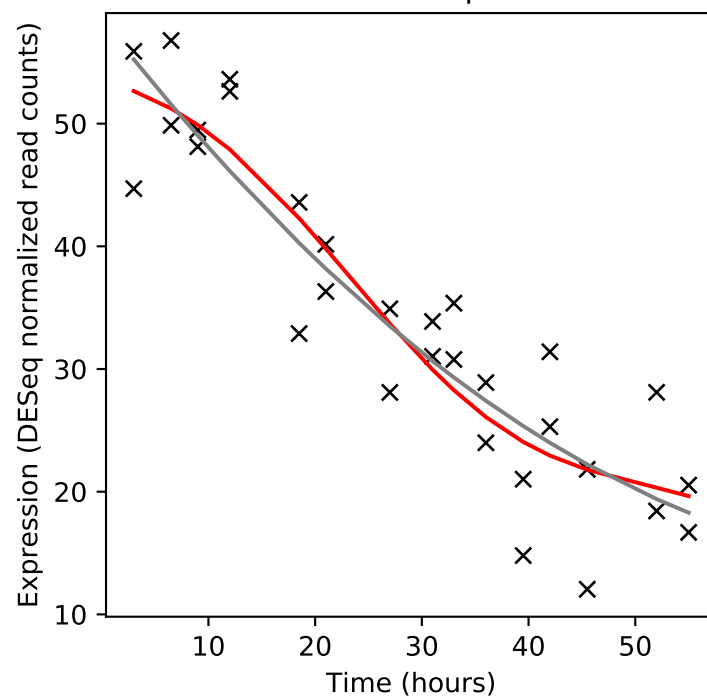
Rv3319/sdhB



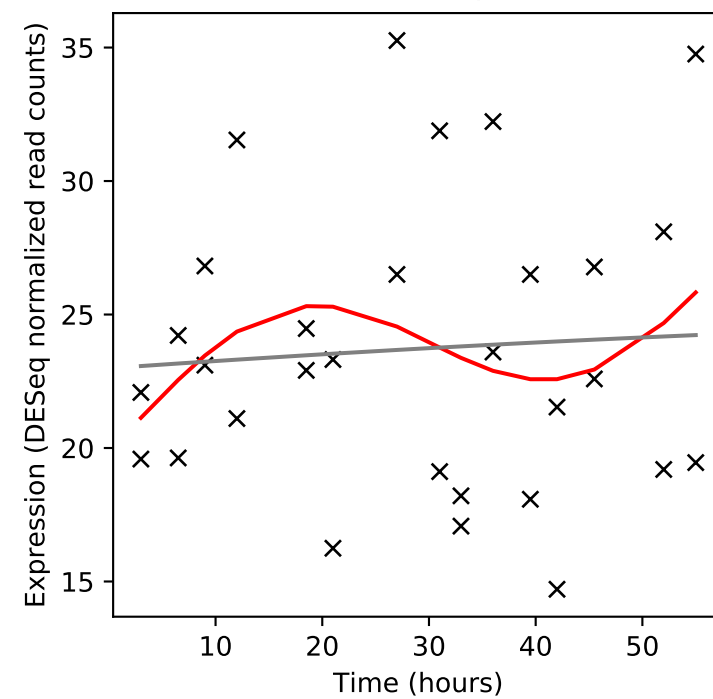
Rv3320c/vapC44



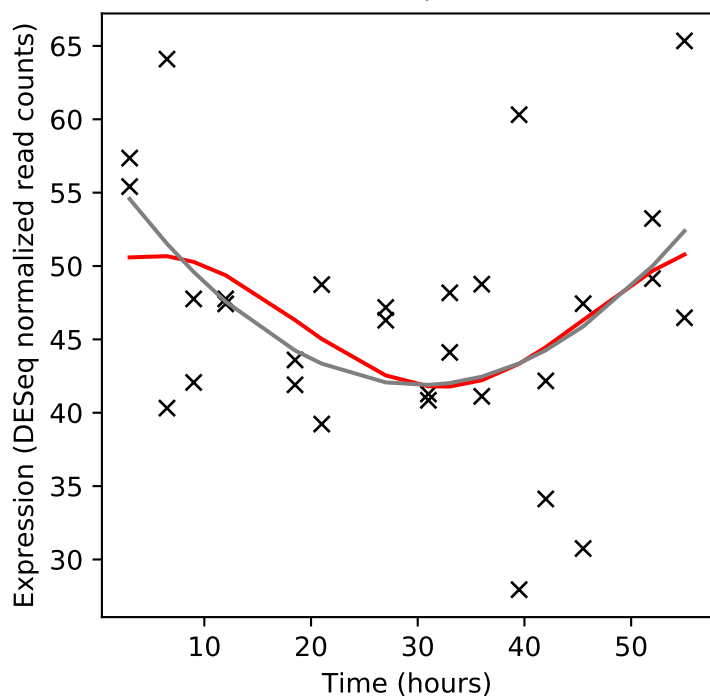
Rv3321c/vapB44



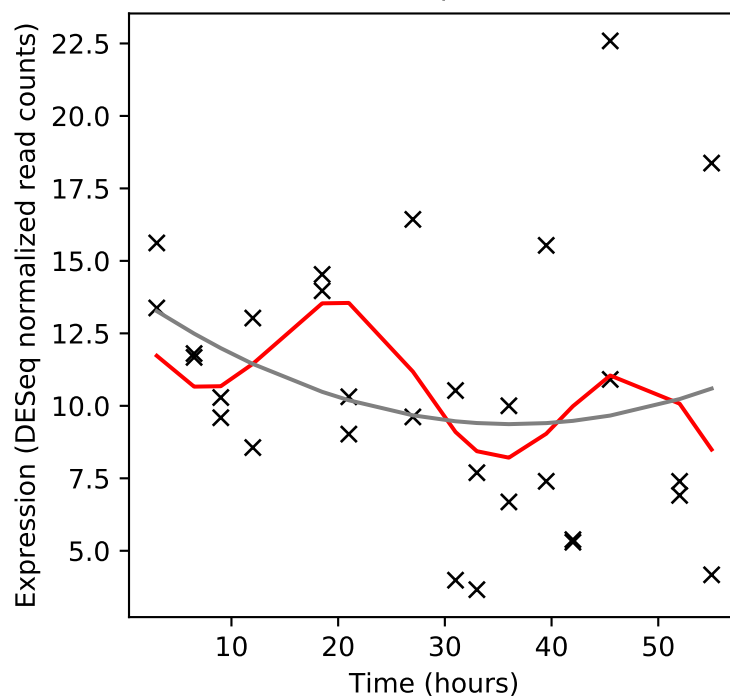
Rv3322c/-



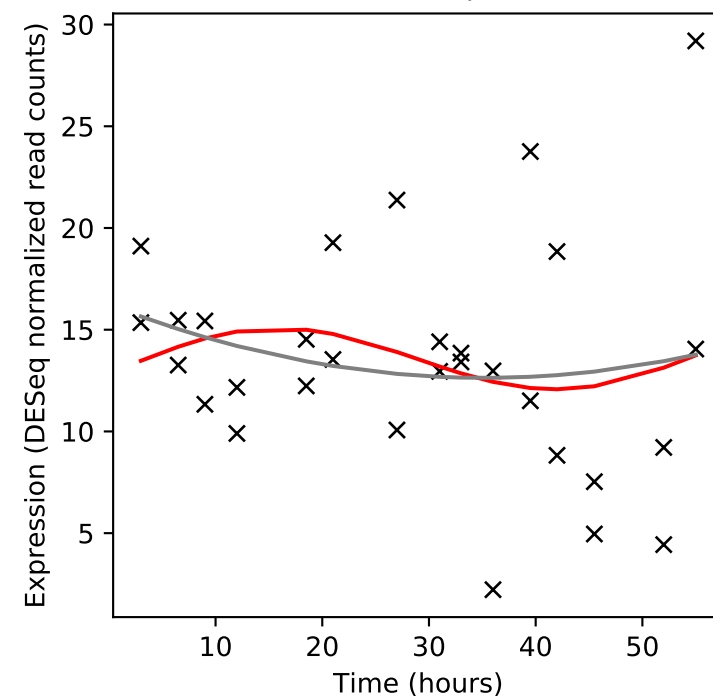
Rv3323c/moaX



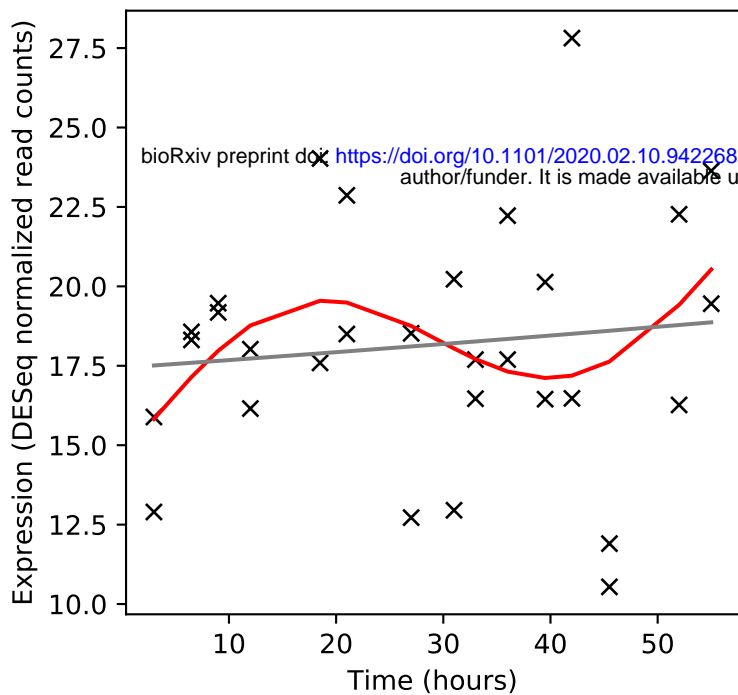
Rv3324c/moaC3



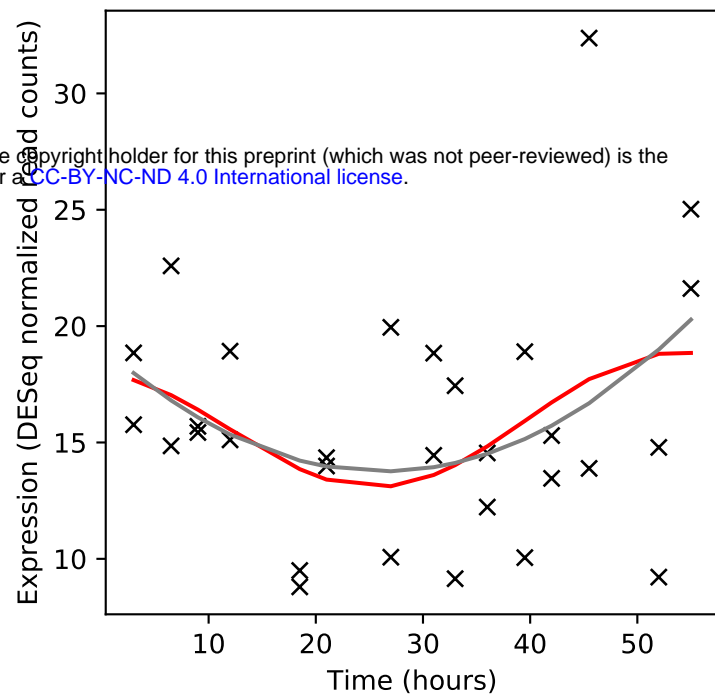
Rv3325/-



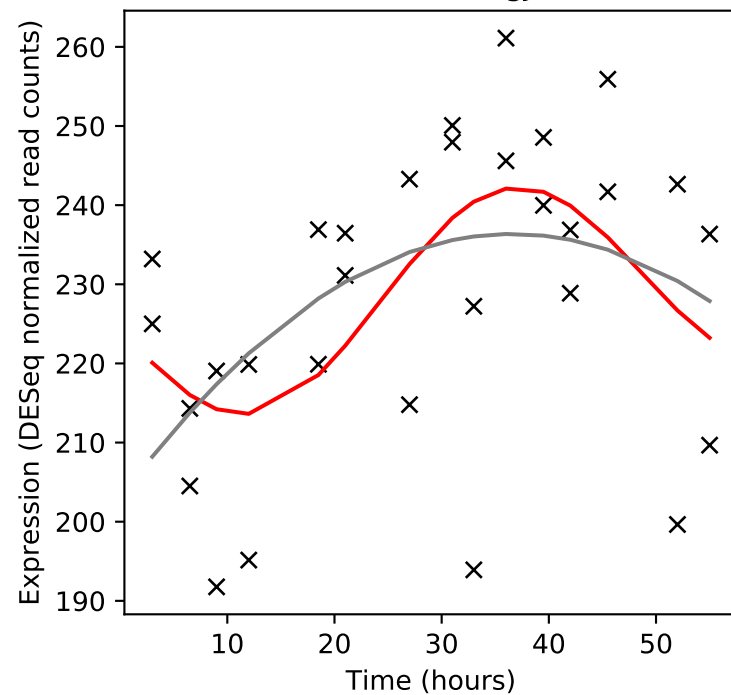
Rv3326/-



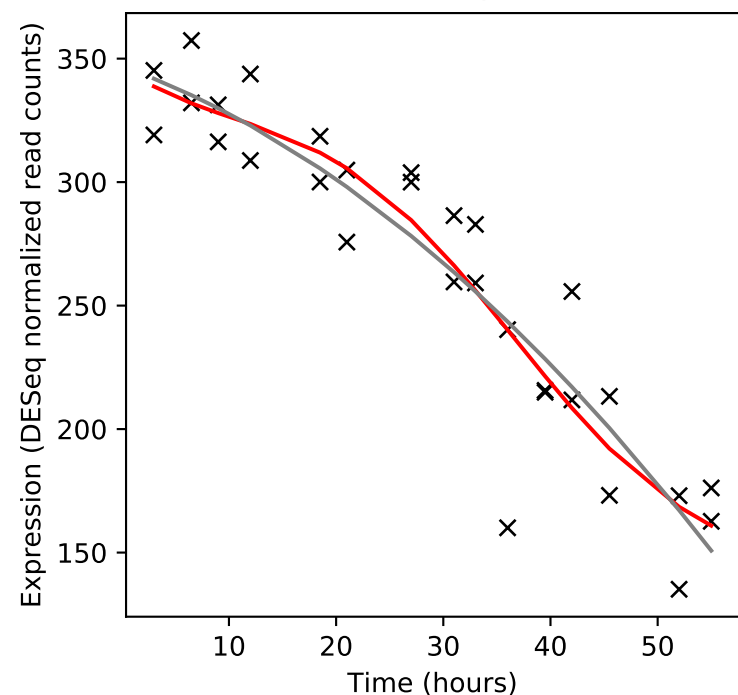
Rv3327/-



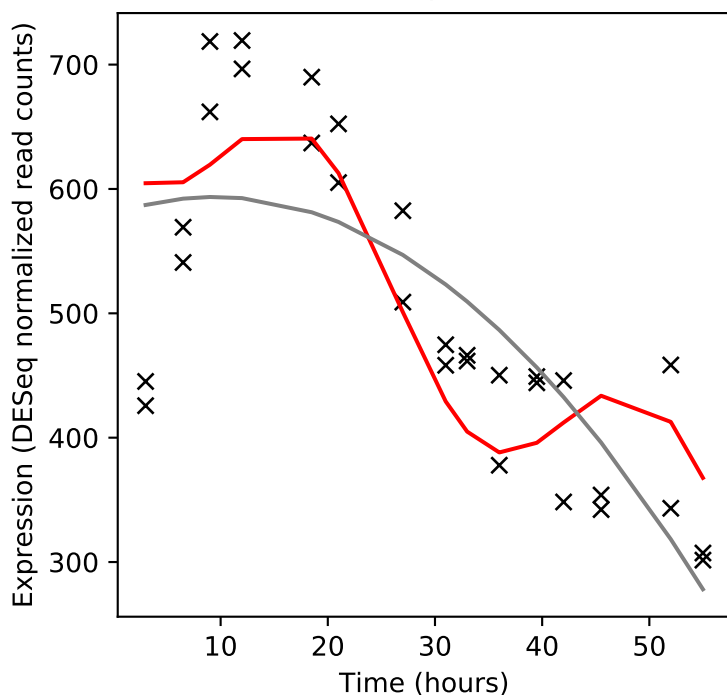
Rv3328c/sig



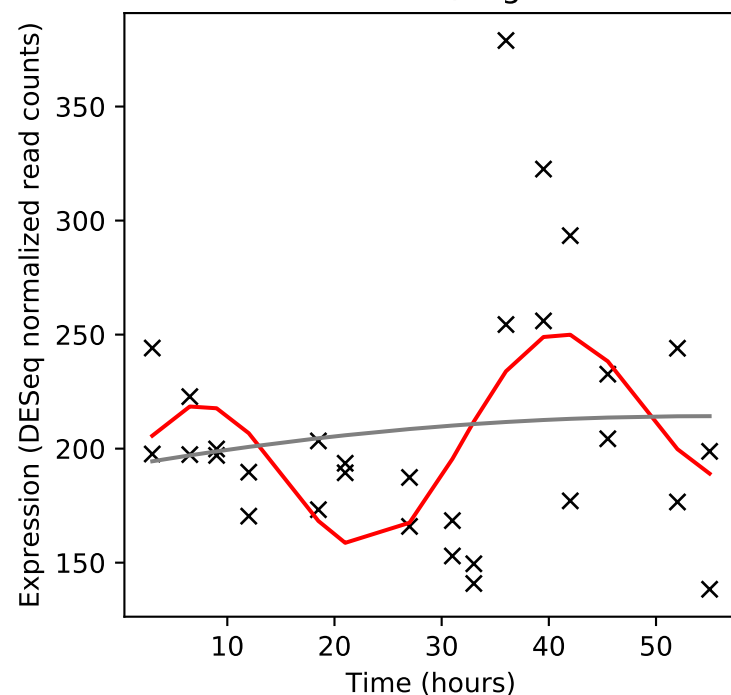
Rv3329/-



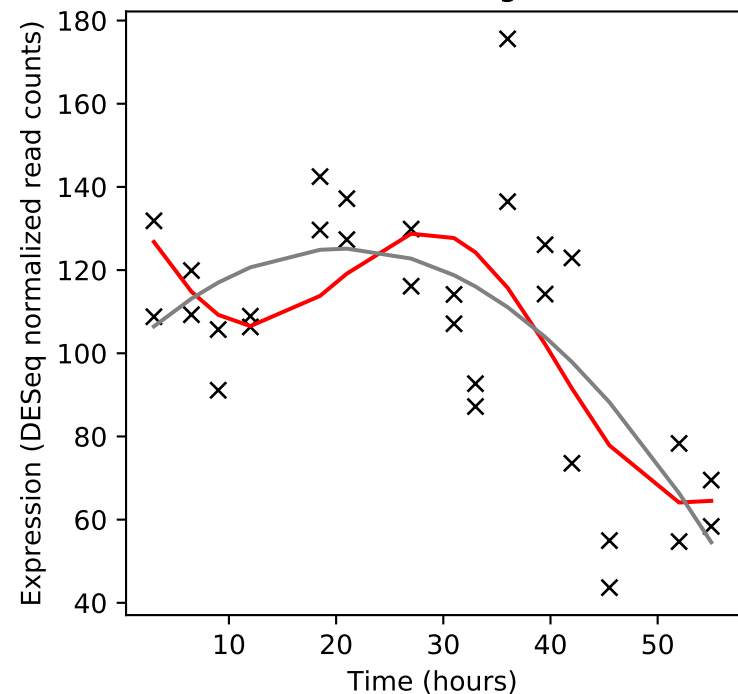
Rv3330/dacB1



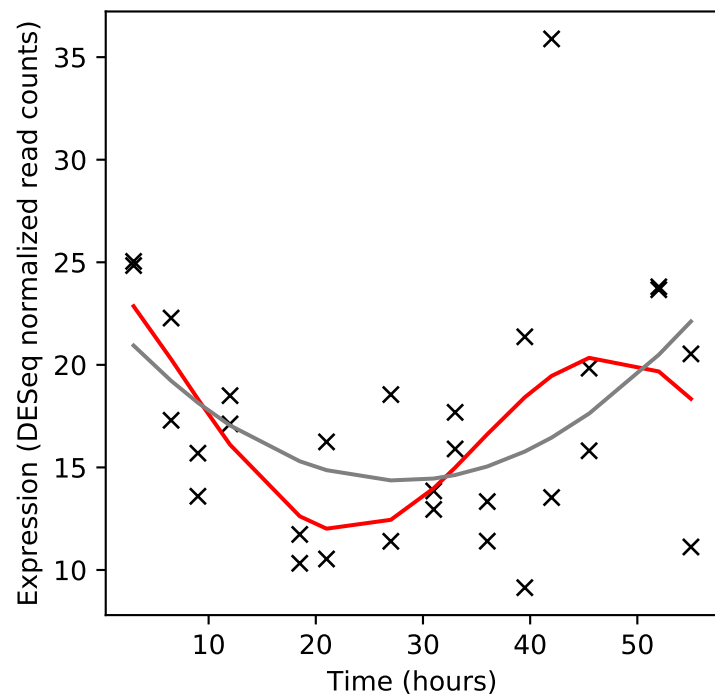
Rv3331/sugI



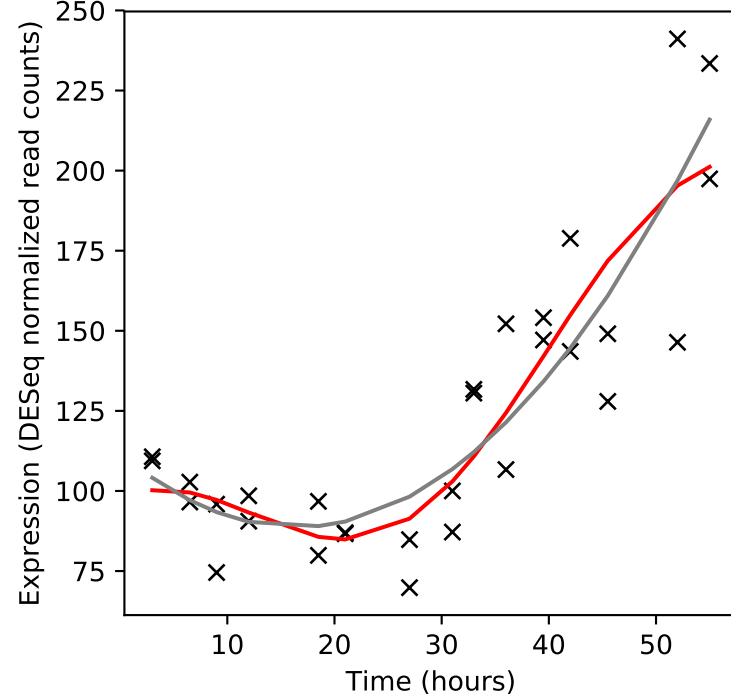
Rv3332/nagA



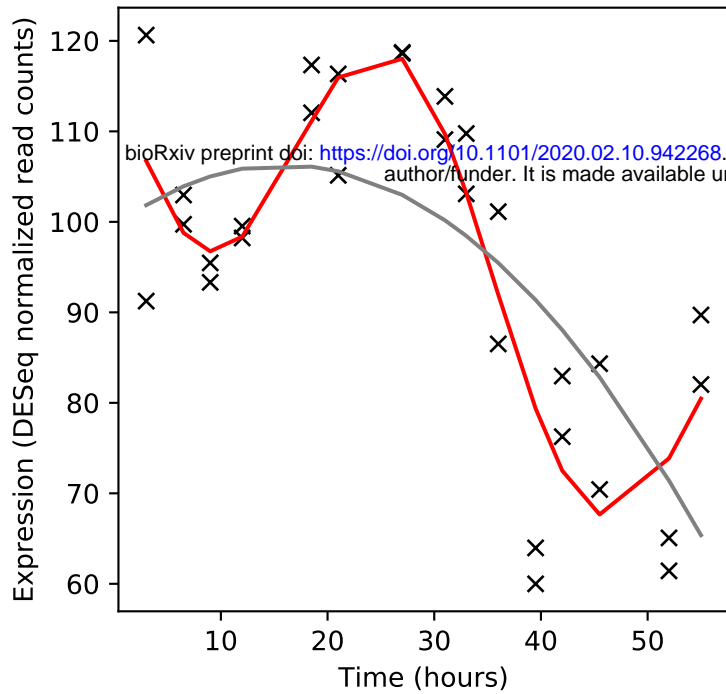
Rv3333c/-



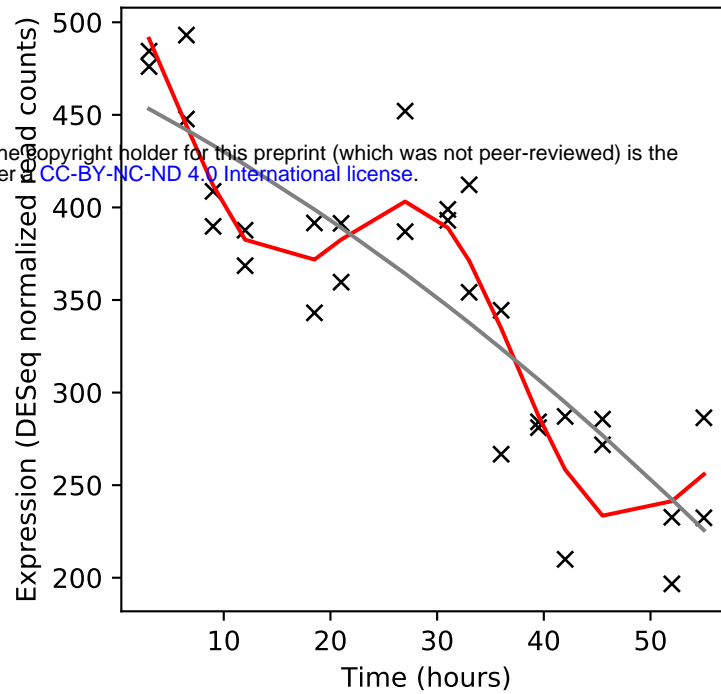
Rv3334/-



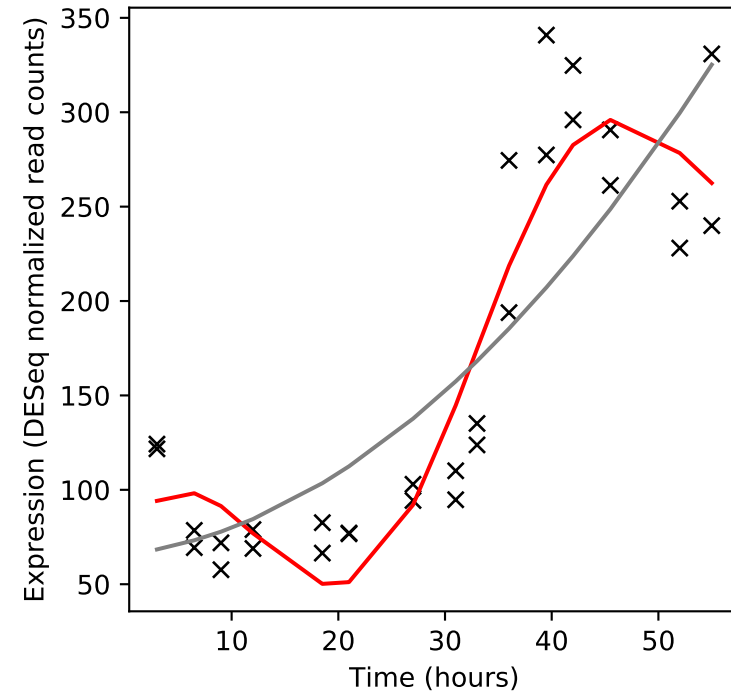
Rv3335c/-



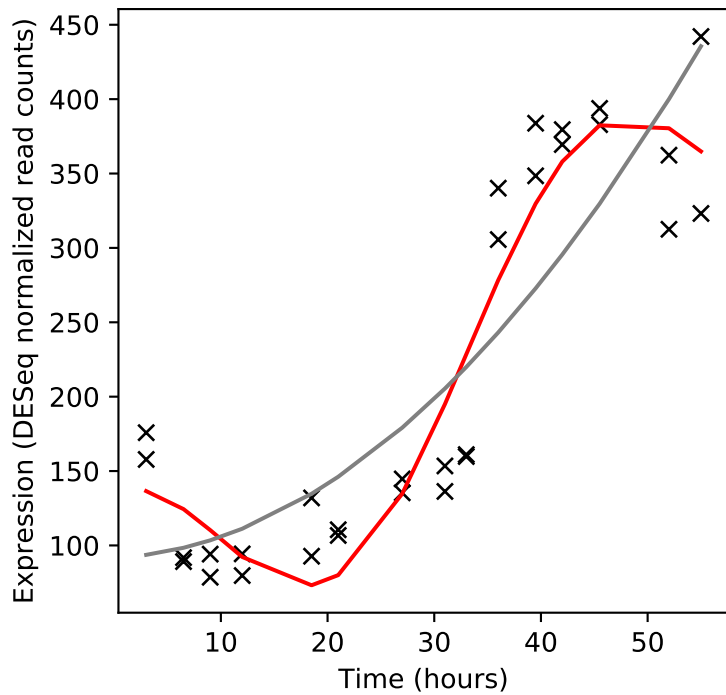
Rv3336c/trpS



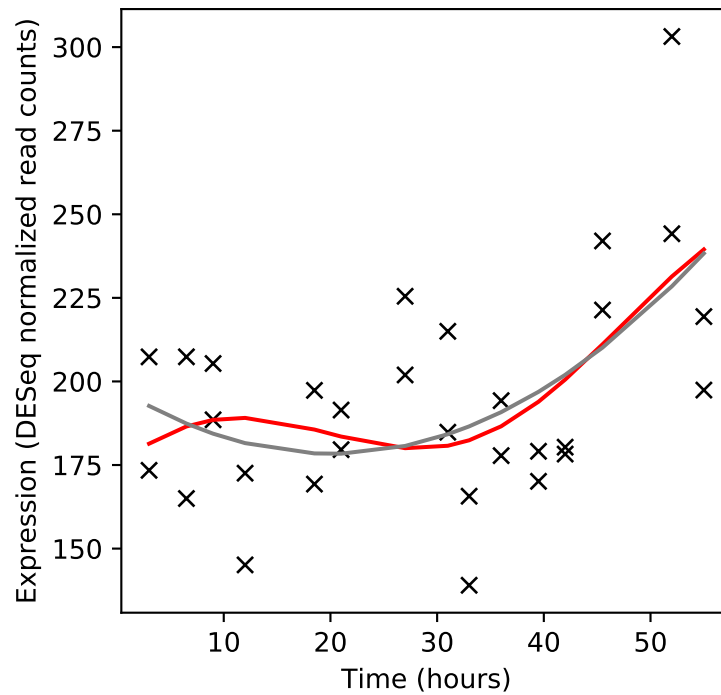
Rv3337/-



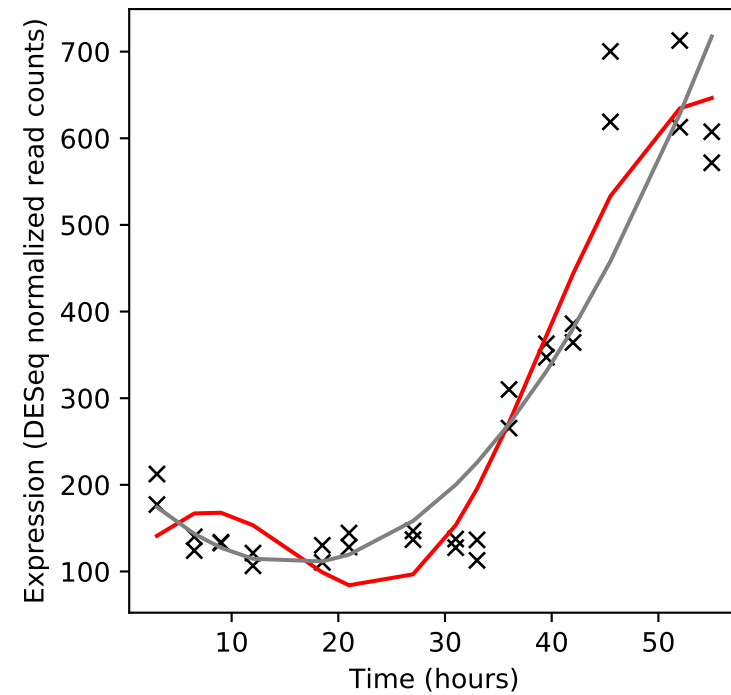
Rv3338/-



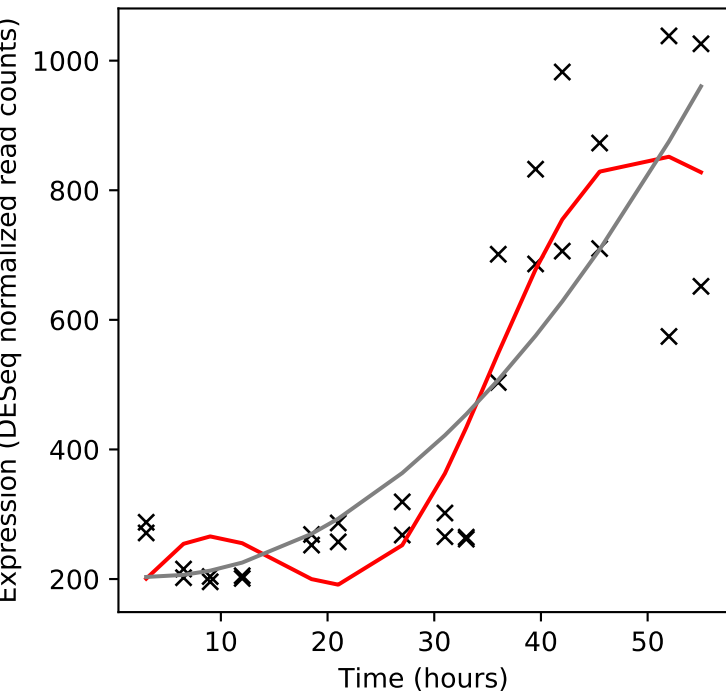
Rv3339c/icd1



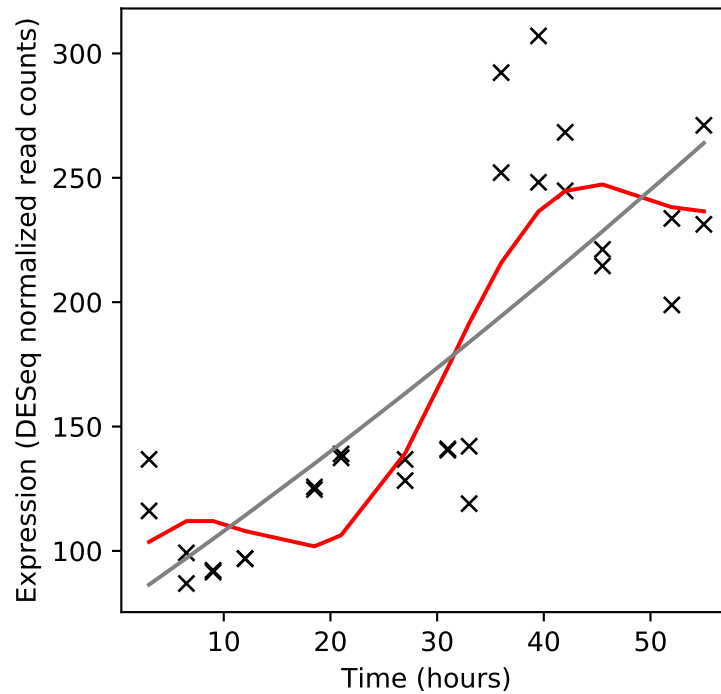
Rv3340/metC



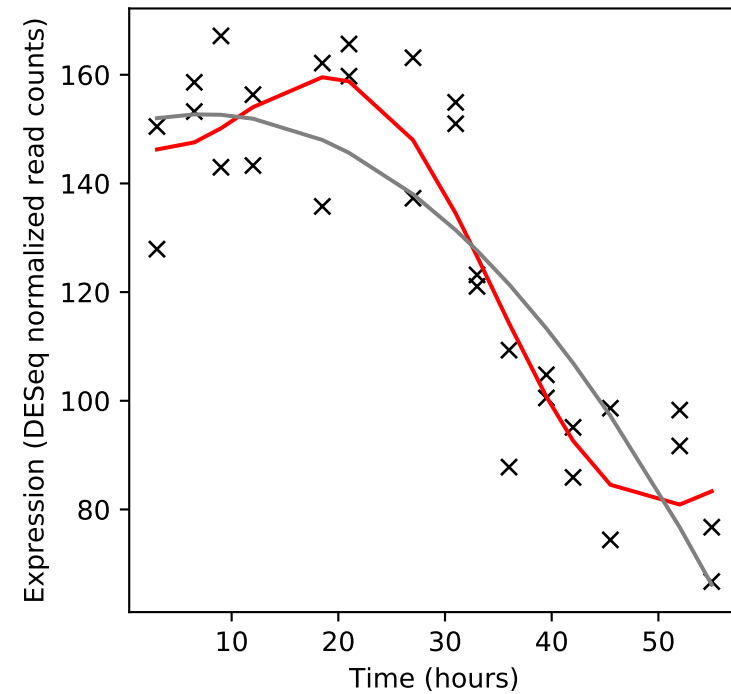
Rv3341/metA



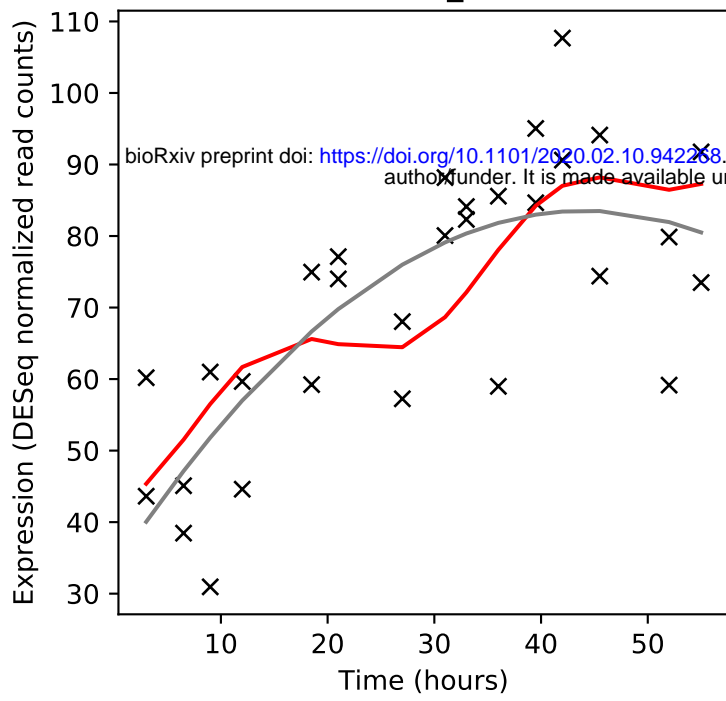
Rv3342/-



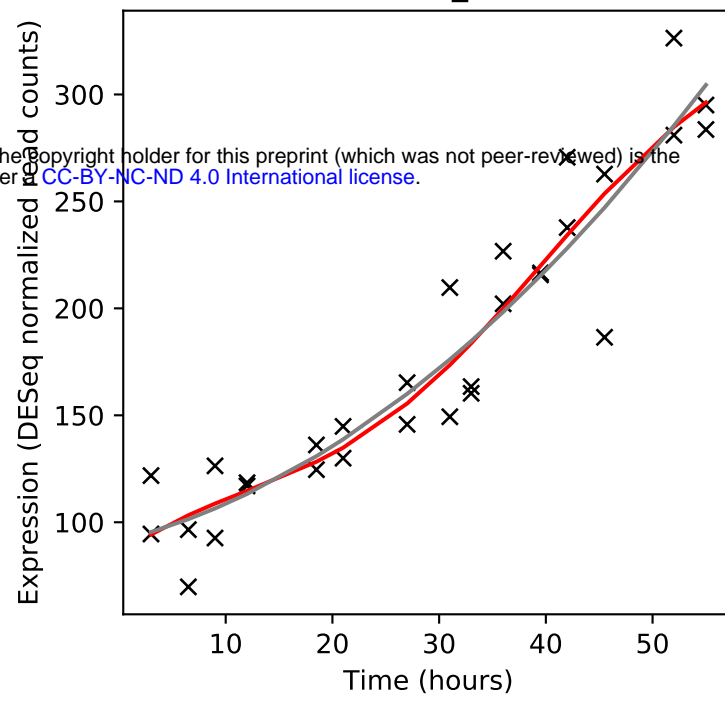
Rv3343c/PPE54



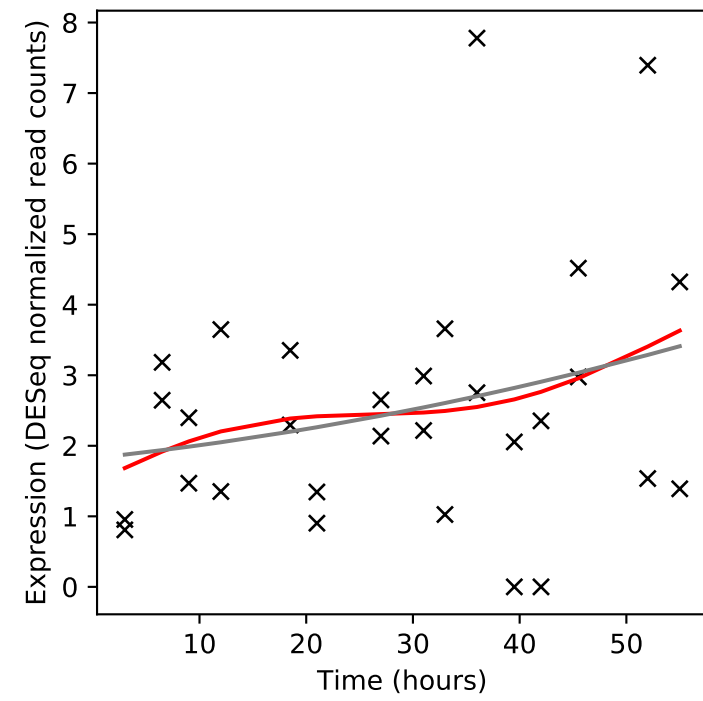
Rv3344c/PE_PGRS49



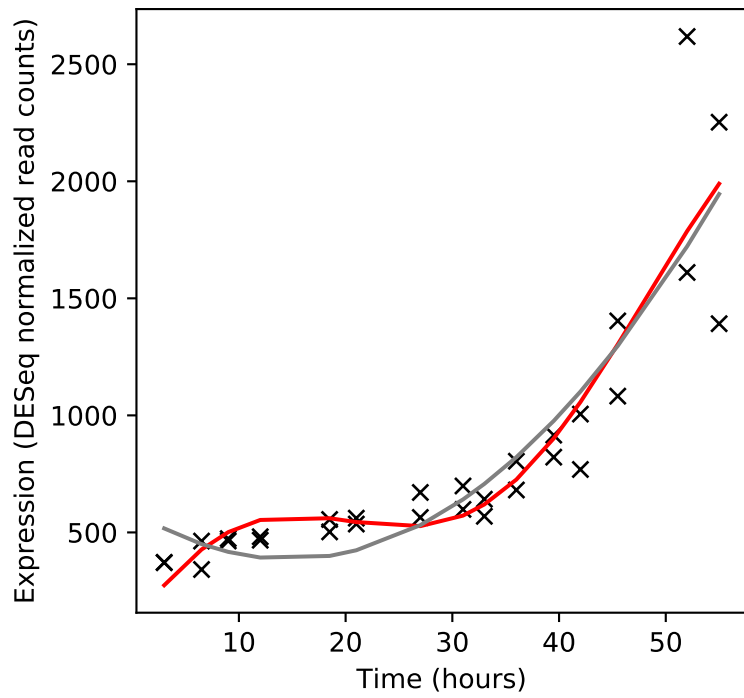
Rv3345c/PE_PGRS50



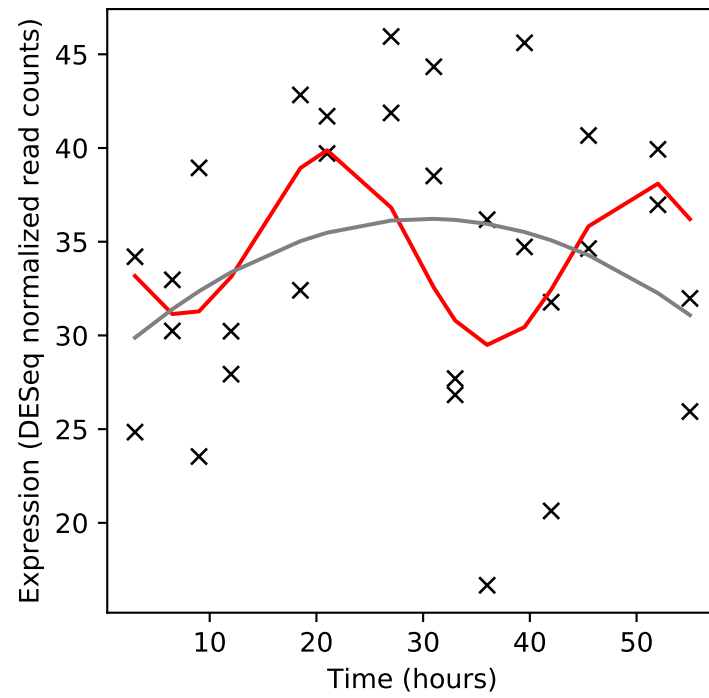
Rv3346c/-



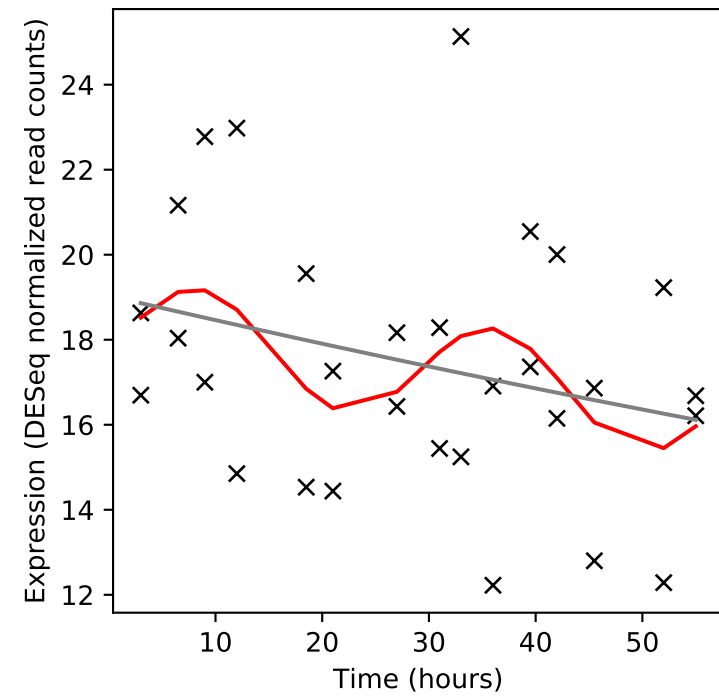
Rv3347c/PPE55



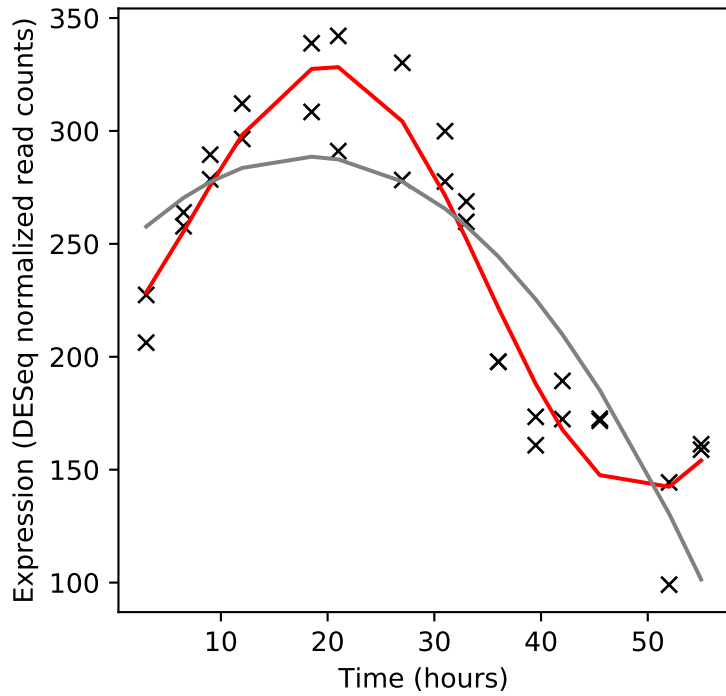
Rv3348/-



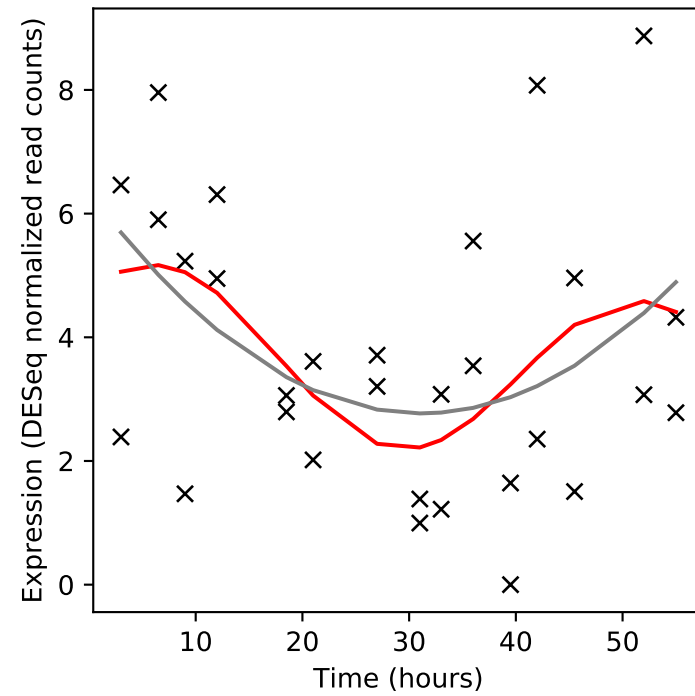
Rv3349c/-



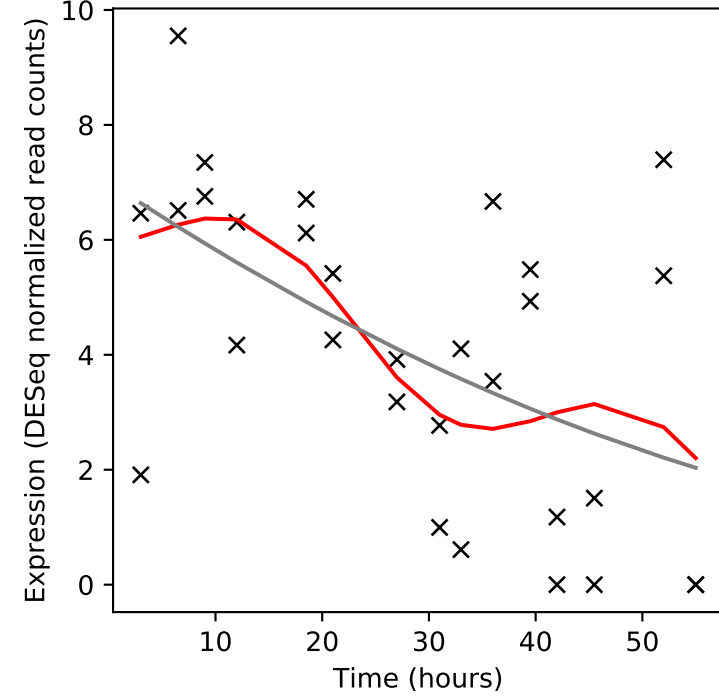
Rv3350c/PPE56

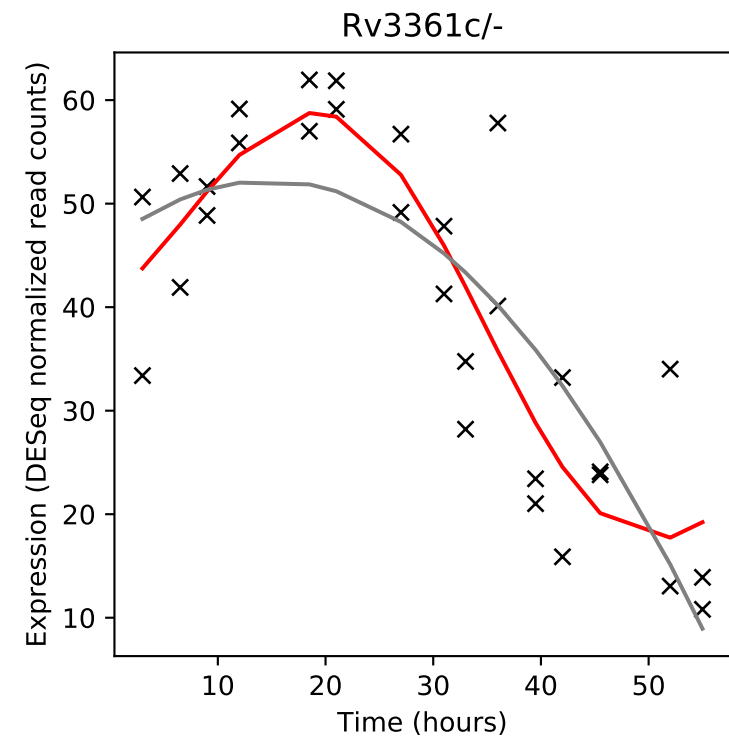
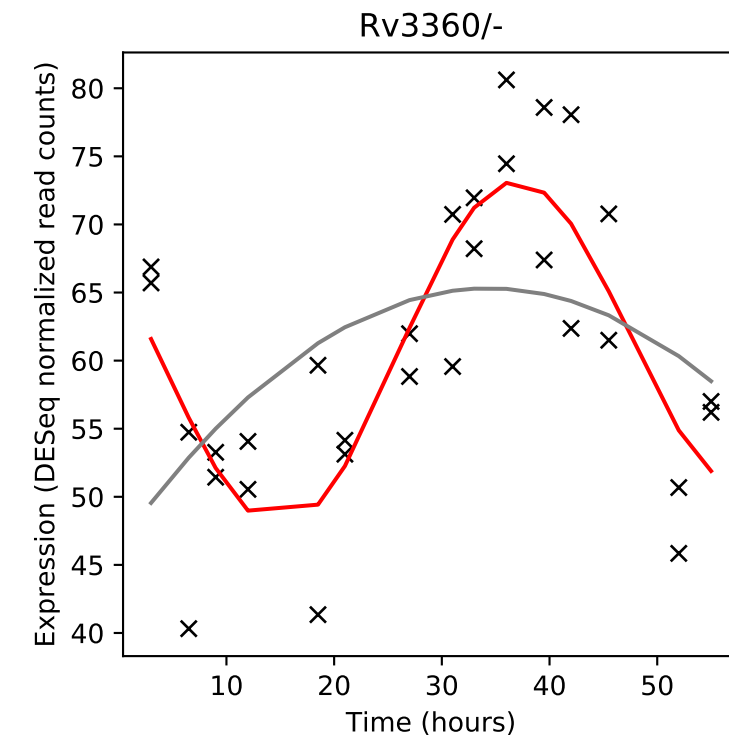
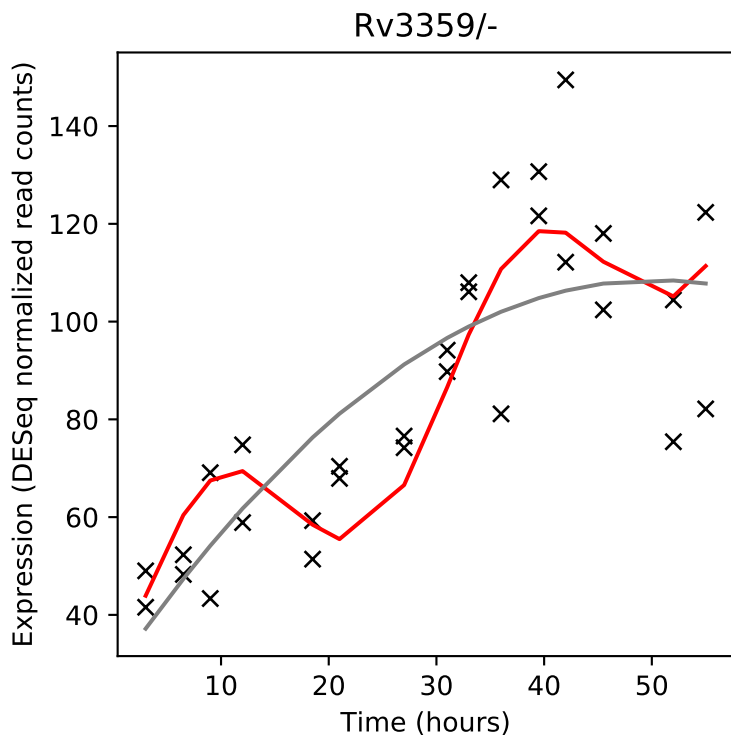
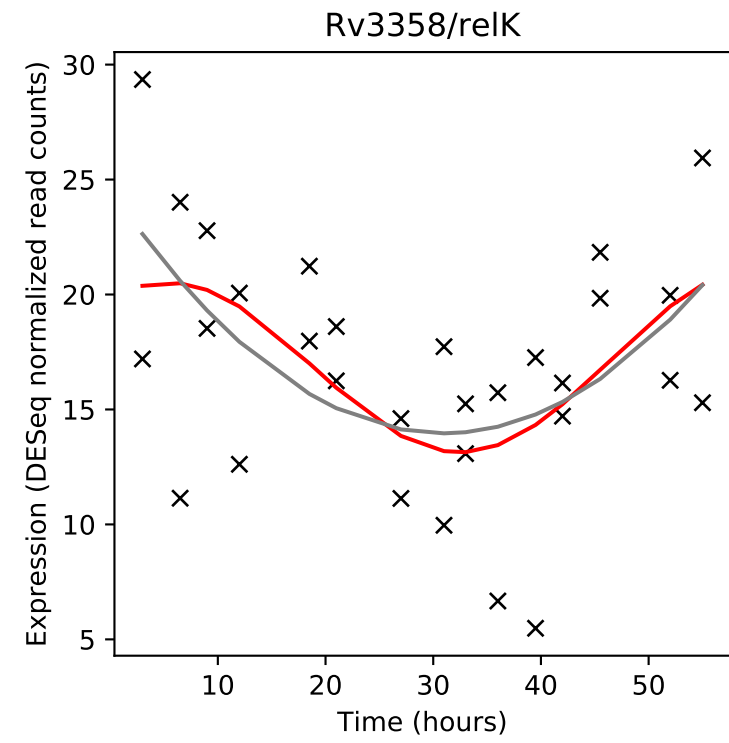
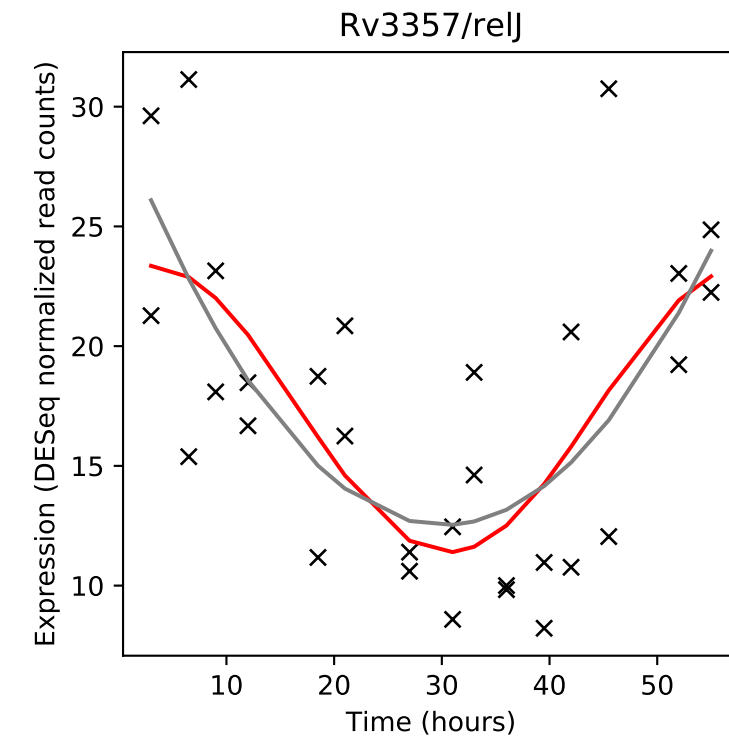
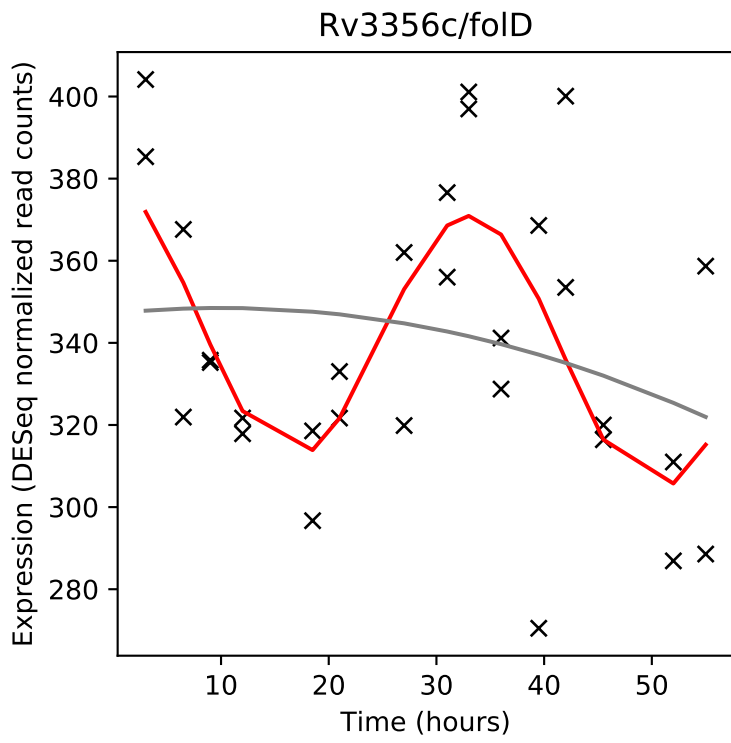
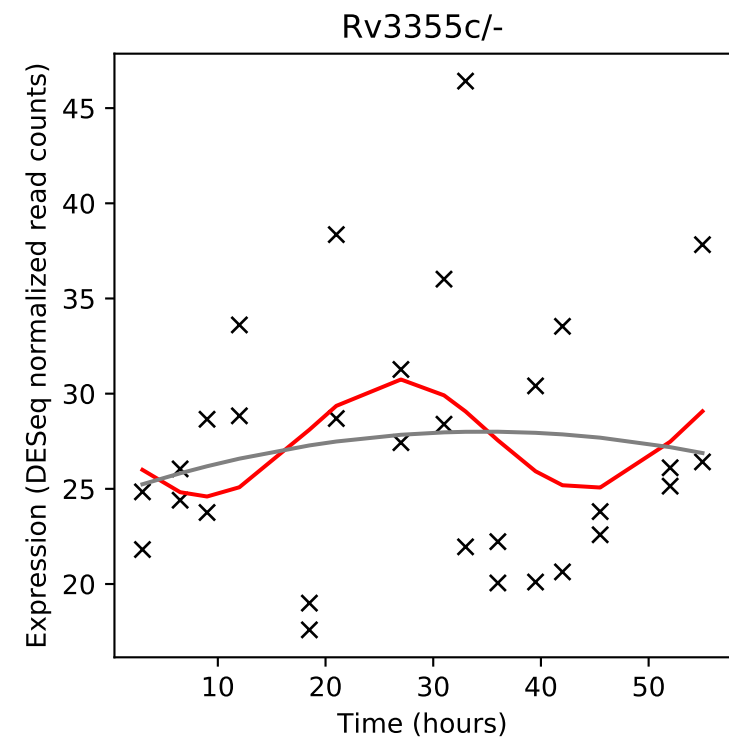
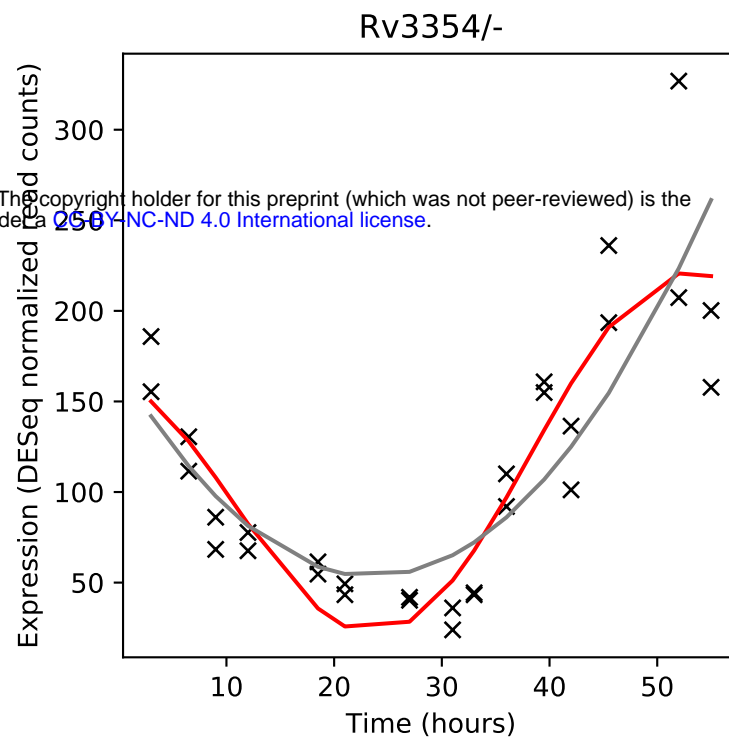
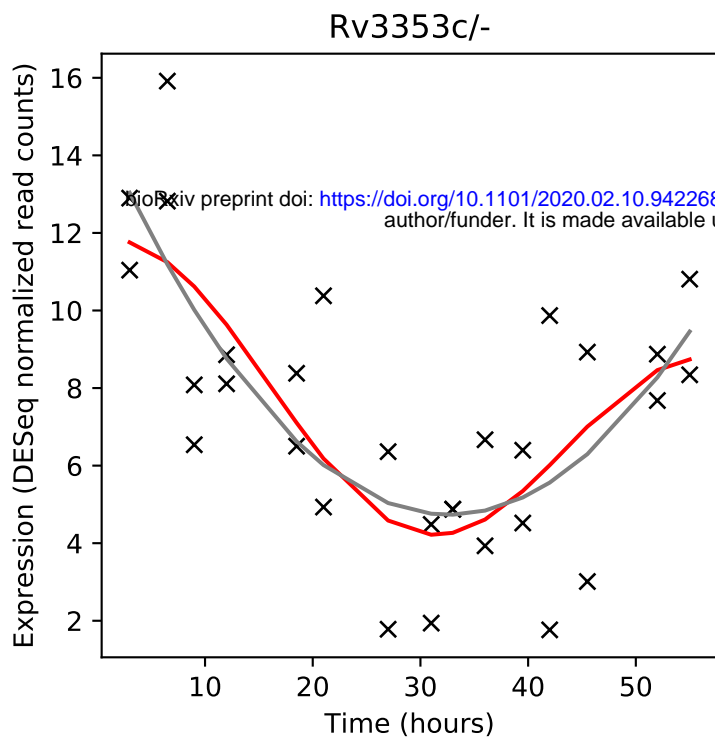


Rv3351c/-

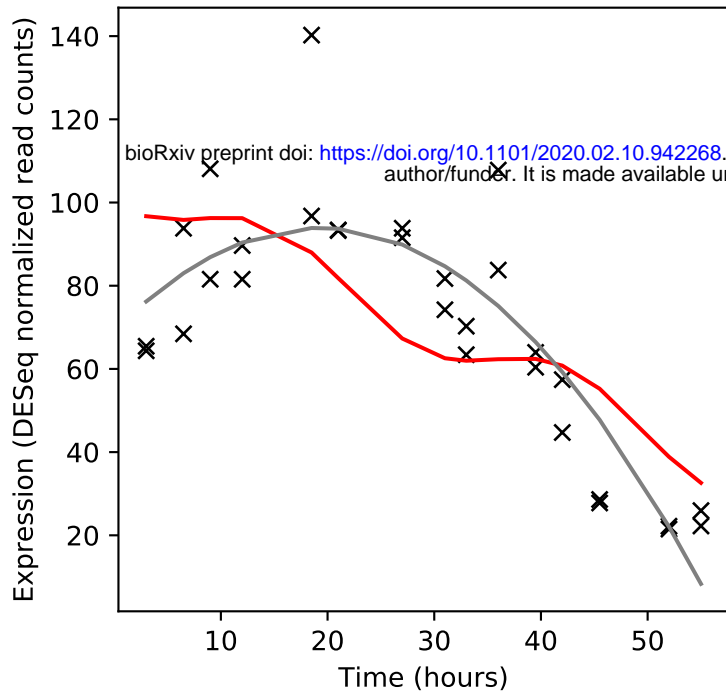


Rv3352c/-

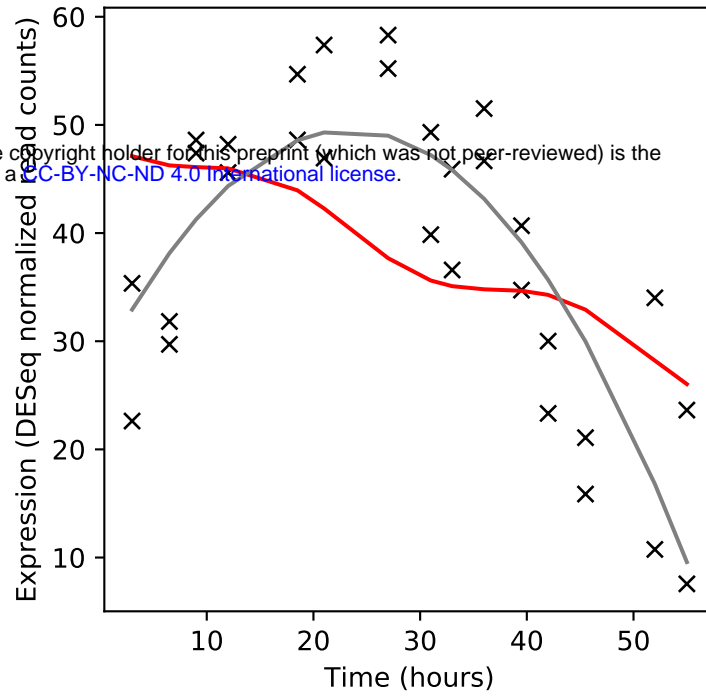




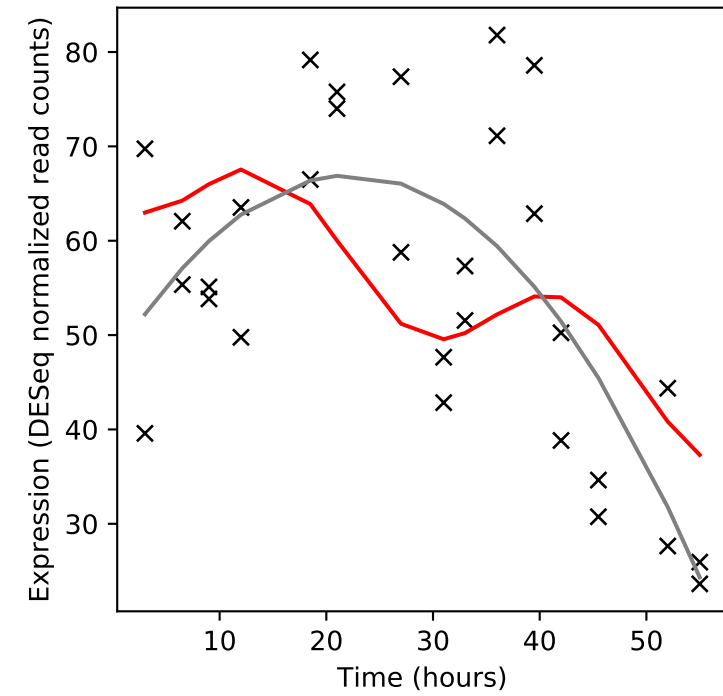
Rv3362c/-



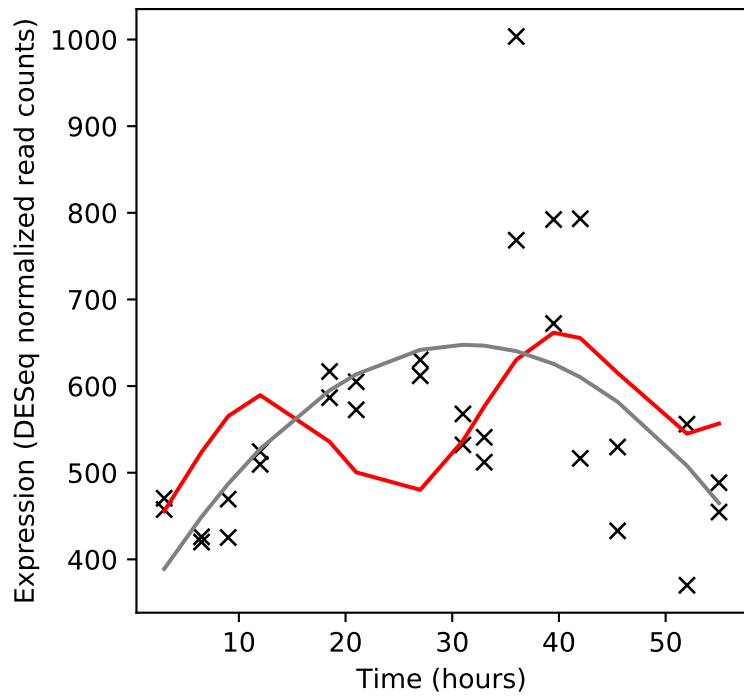
Rv3363c/-



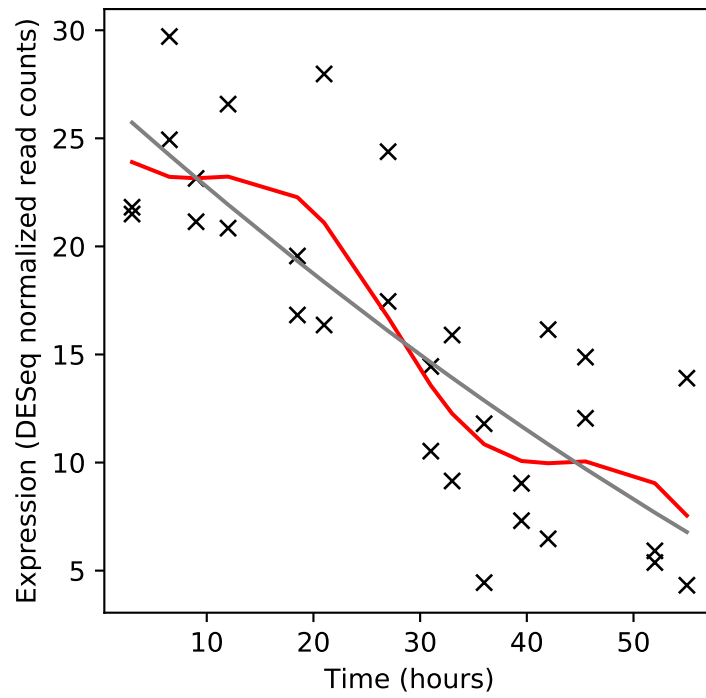
Rv3364c/-



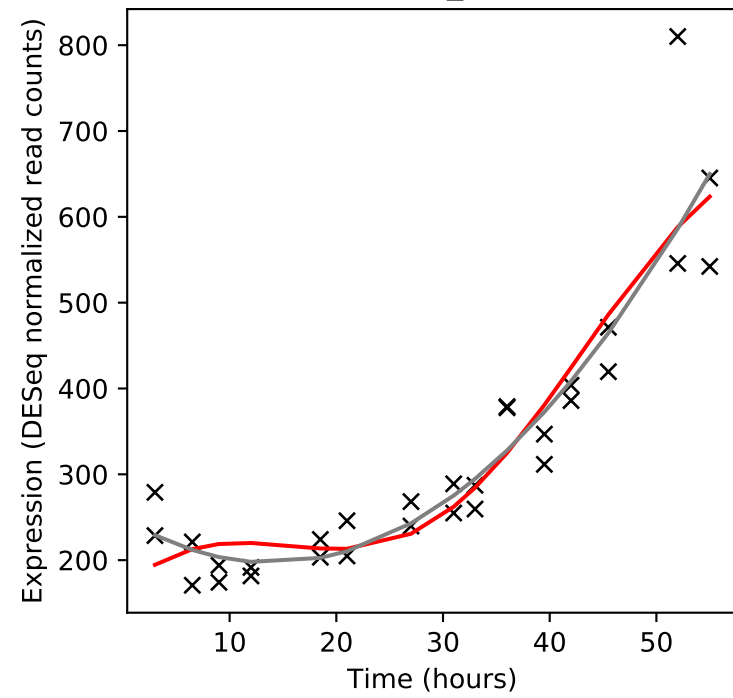
Rv3365c/-



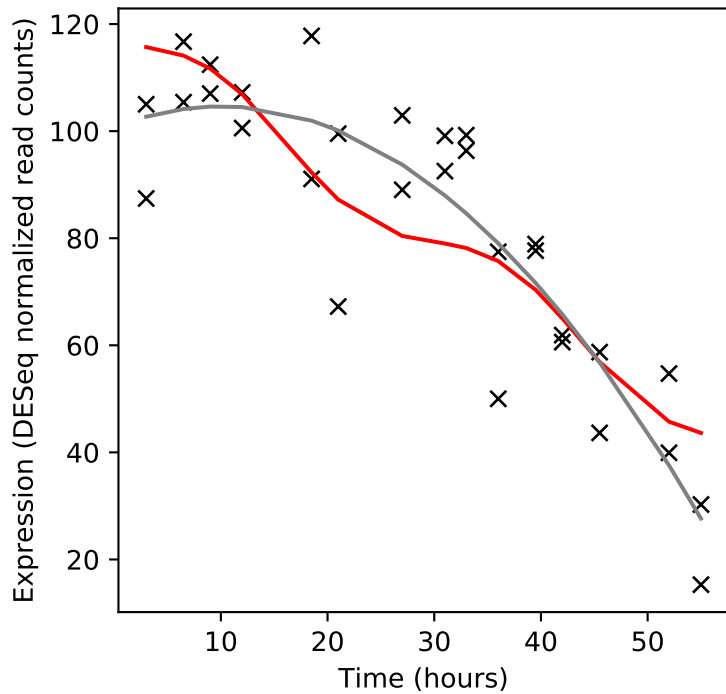
Rv3366/spoU



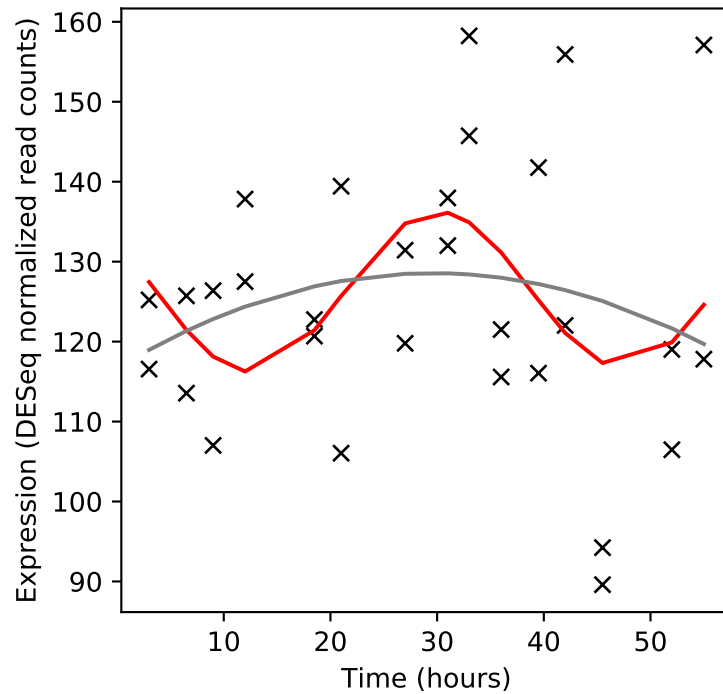
Rv3367/PE_PGRS51



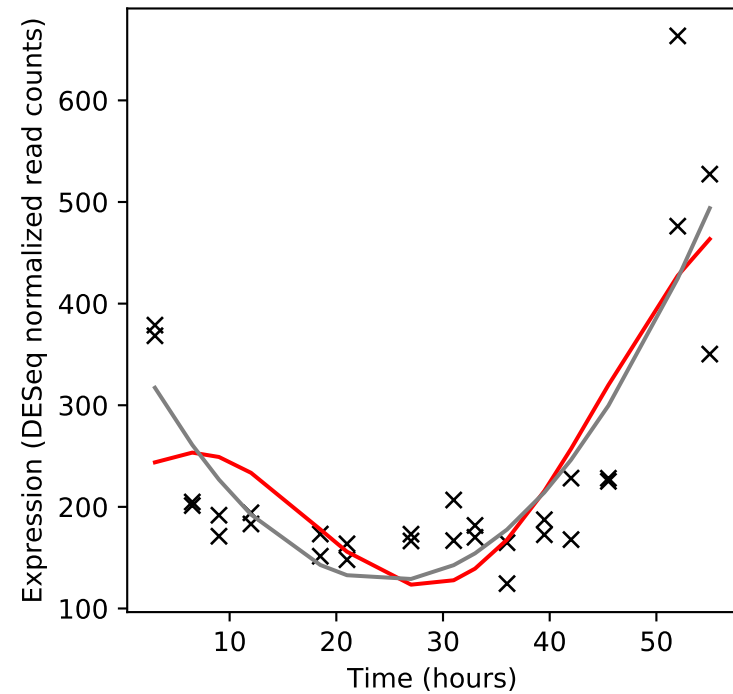
Rv3368c/-



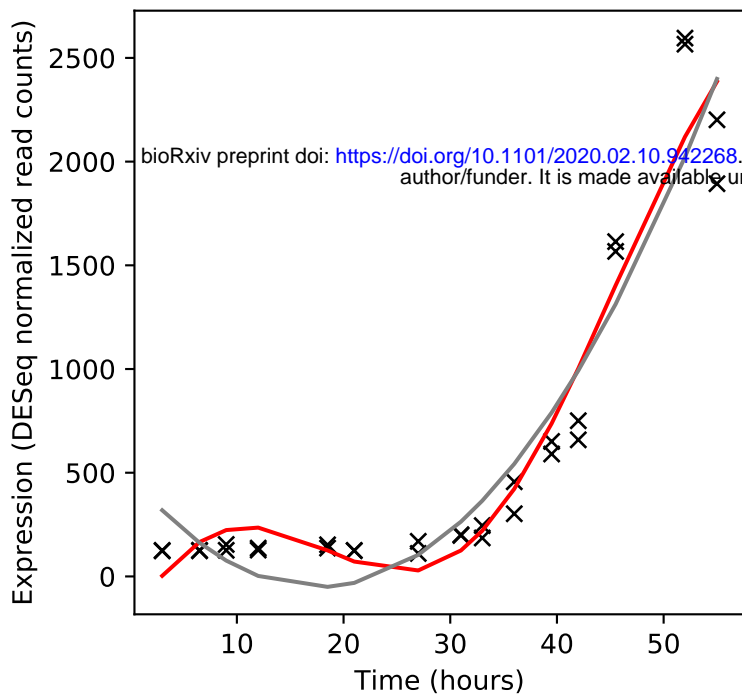
Rv3369/-



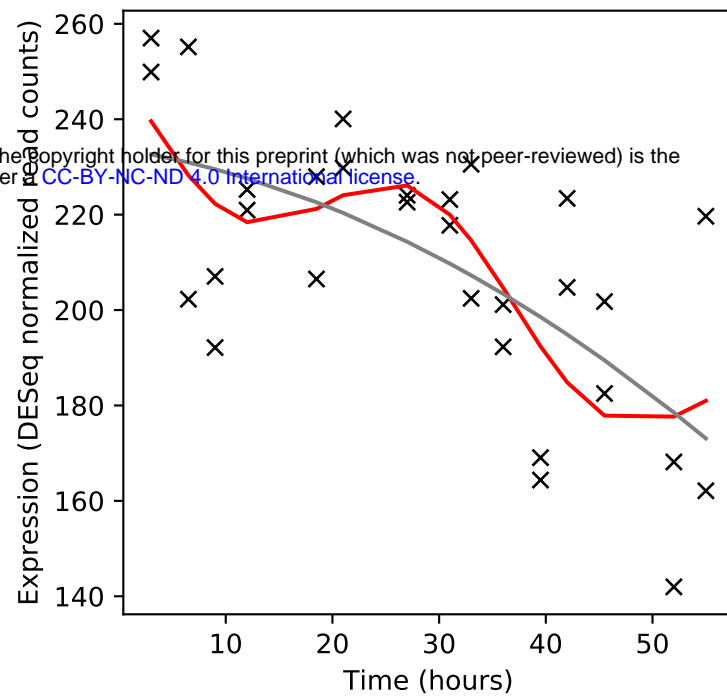
Rv3370c/dnaE2



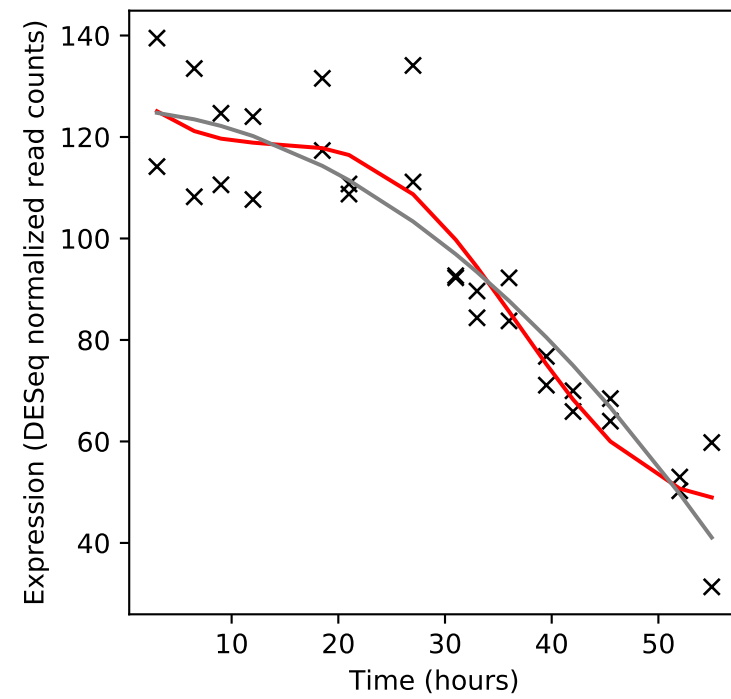
Rv3371/-



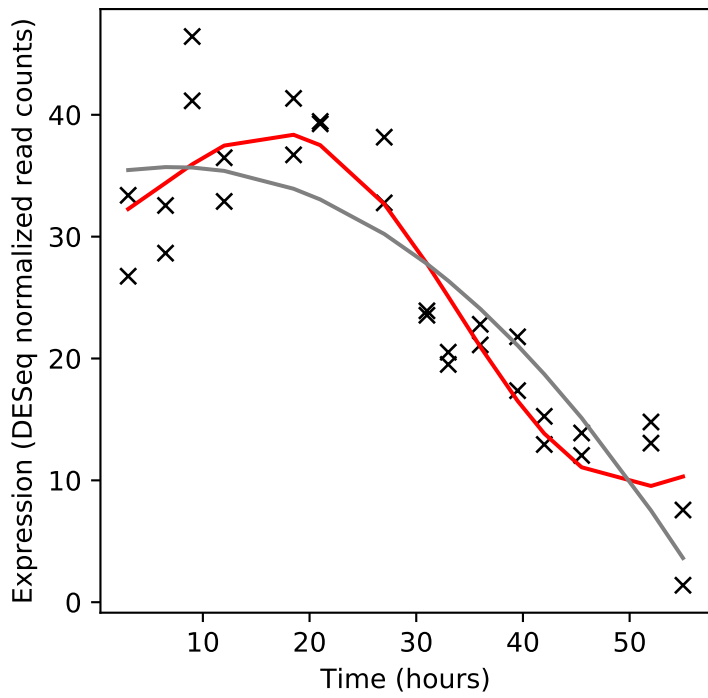
Rv3372/otsB2



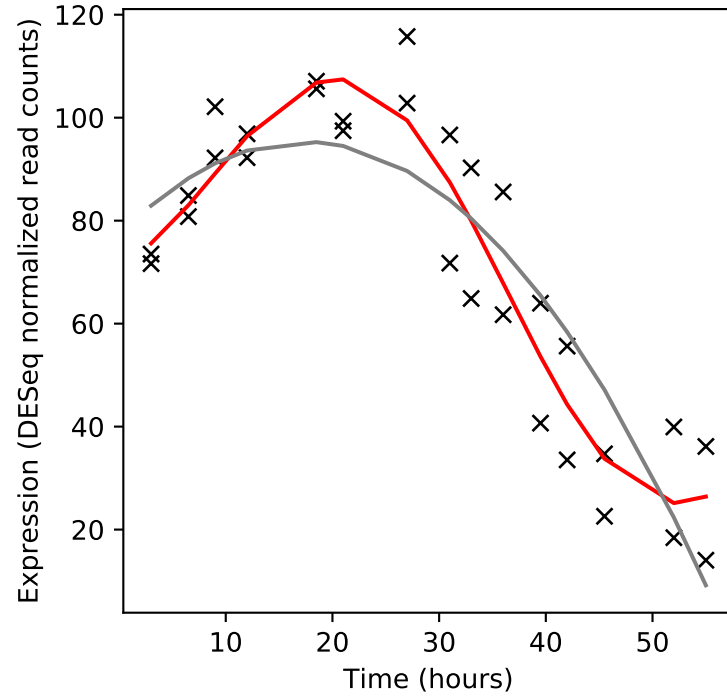
Rv3373/echA18



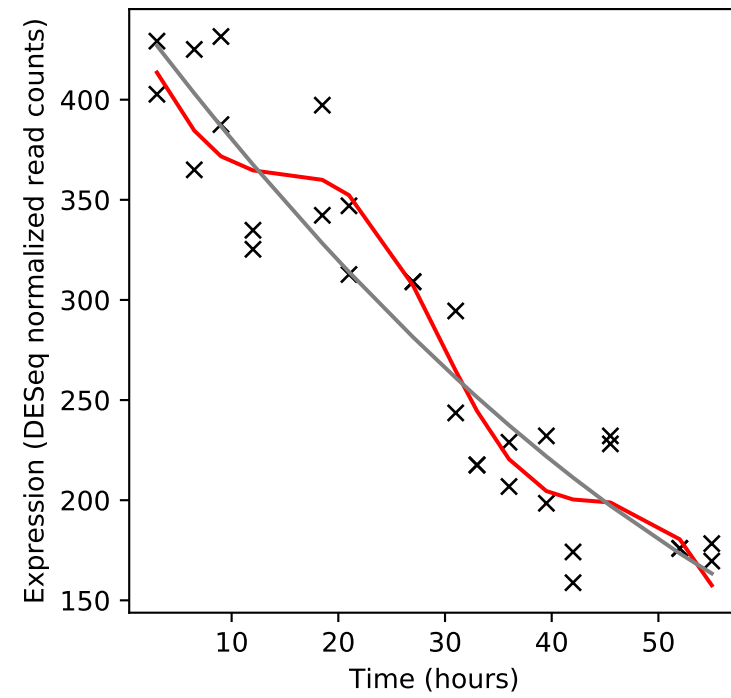
Rv3374/echA18.1



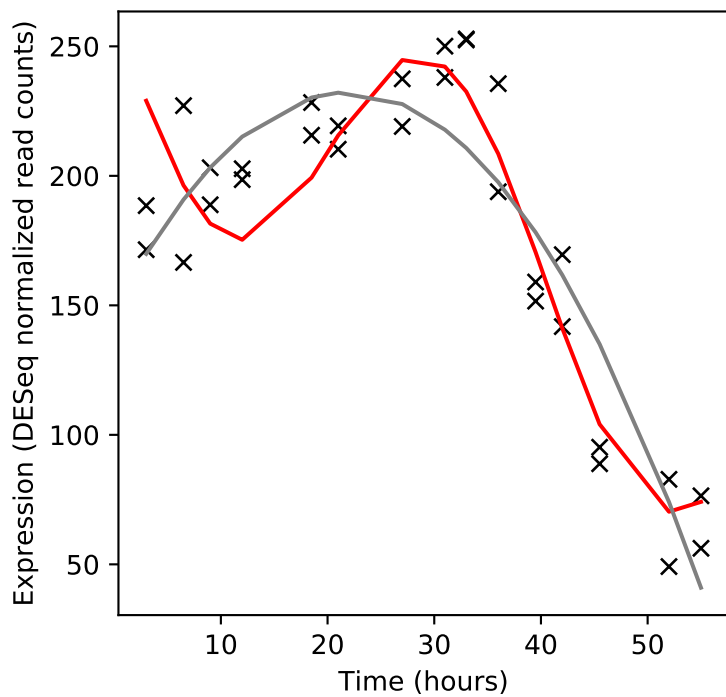
Rv3375/amiD



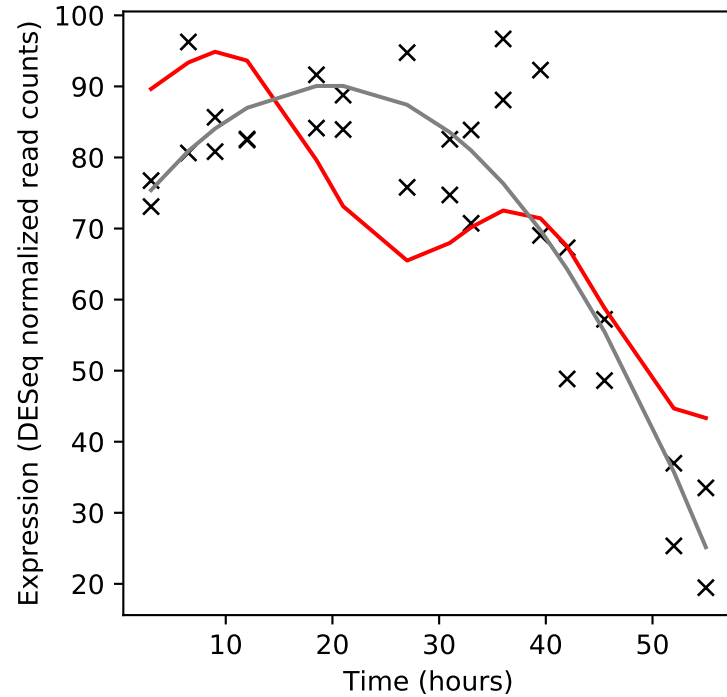
Rv3376/-



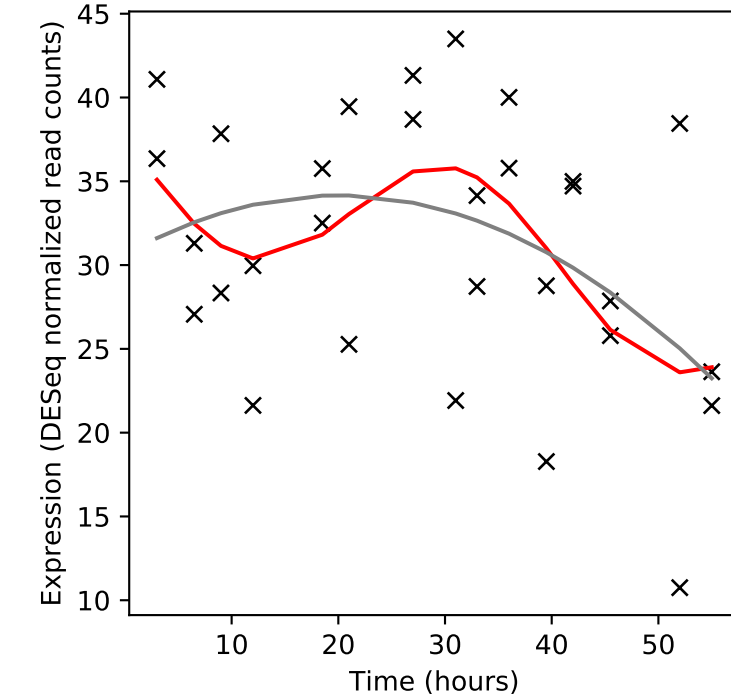
Rv3377c/-



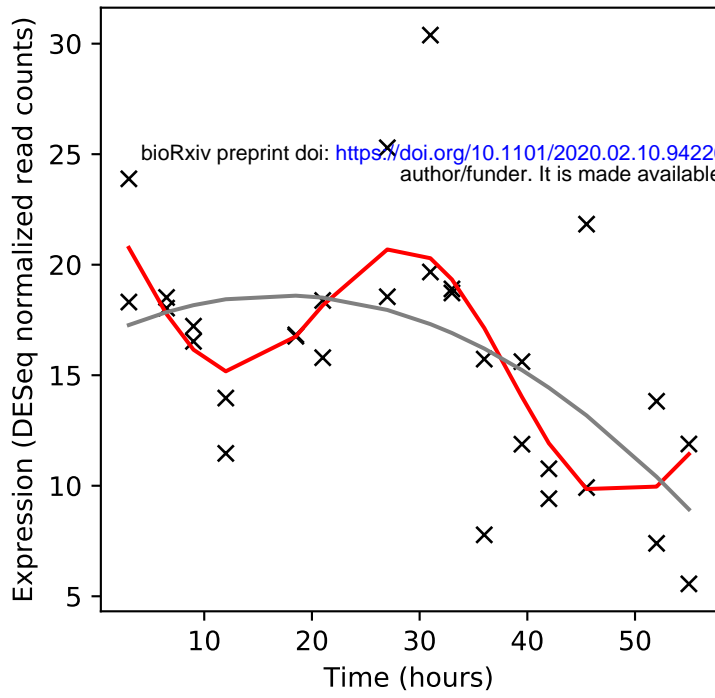
Rv3378c/-



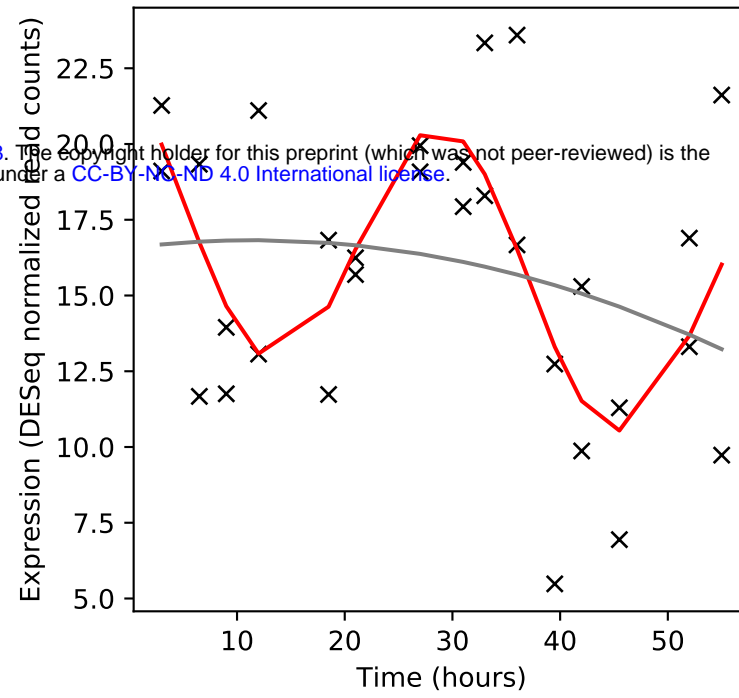
Rv3379c/dxs2



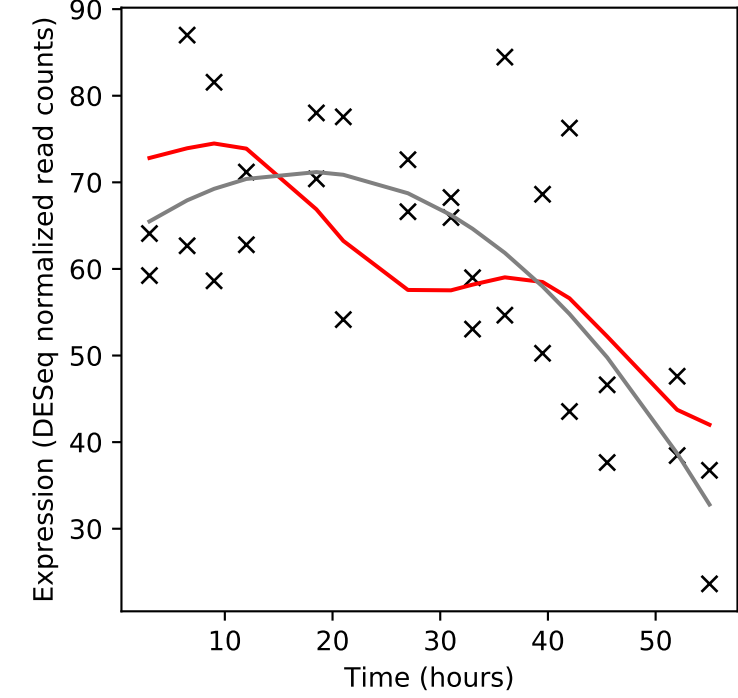
Rv3380c/-



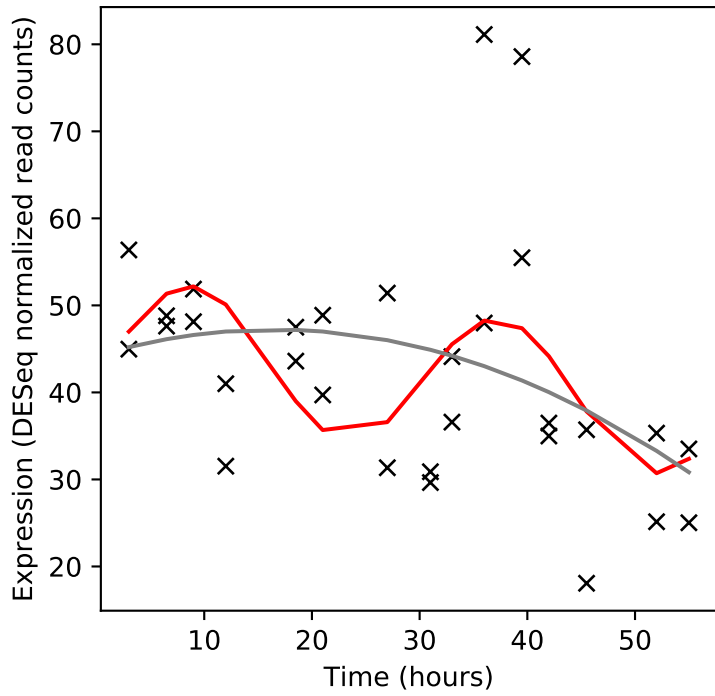
Rv3381c/-



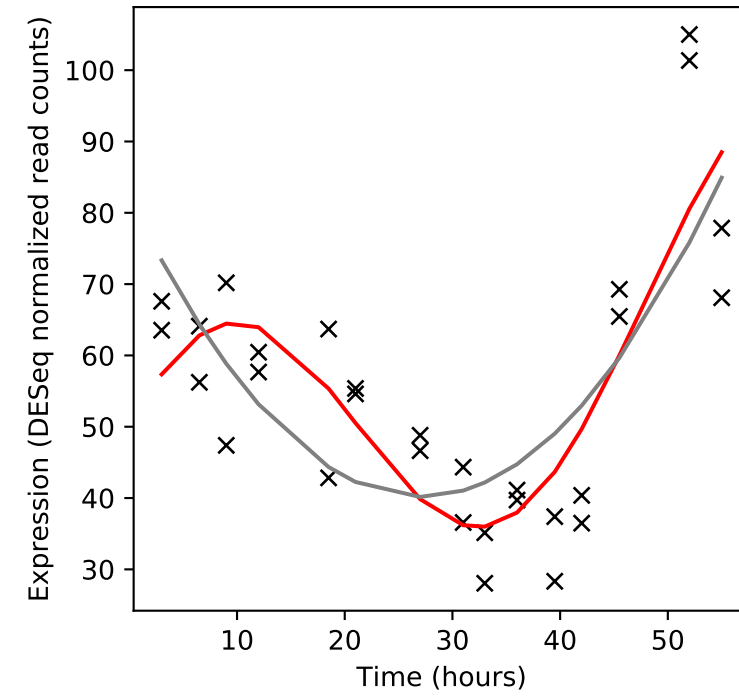
Rv3382c/lytB1



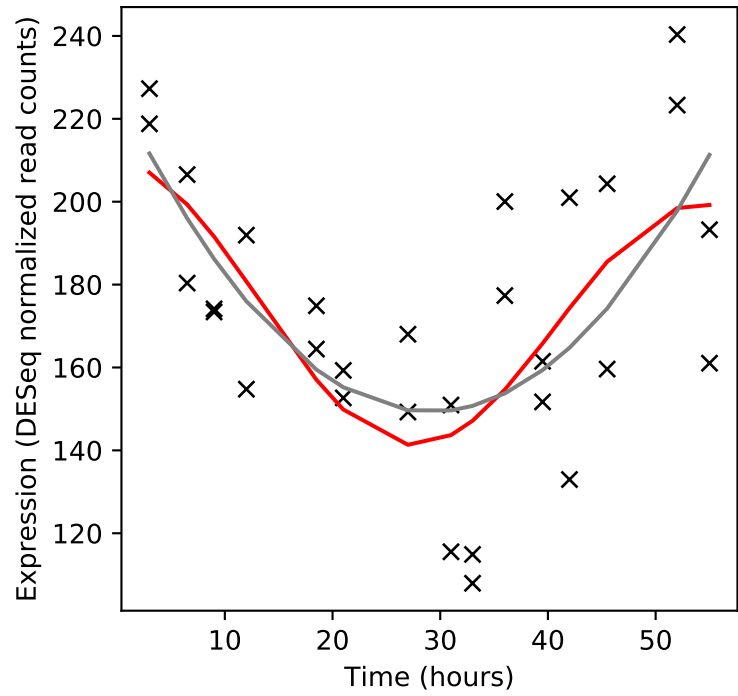
Rv3383c/idsB



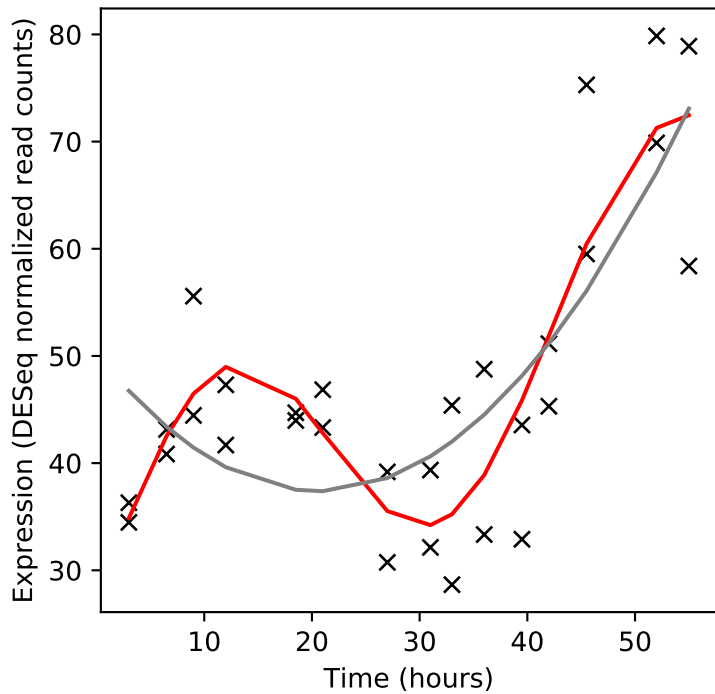
Rv3384c/vapC46



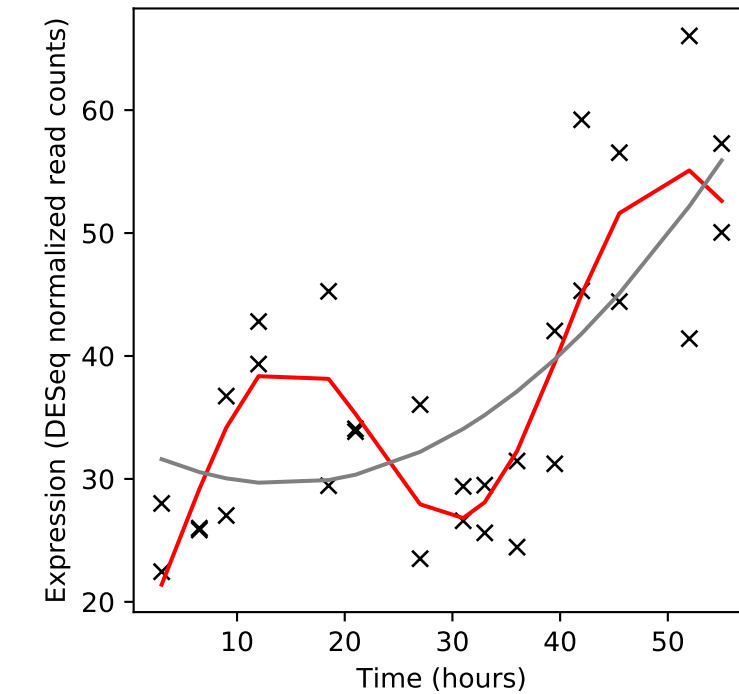
Rv3385c/vapB46



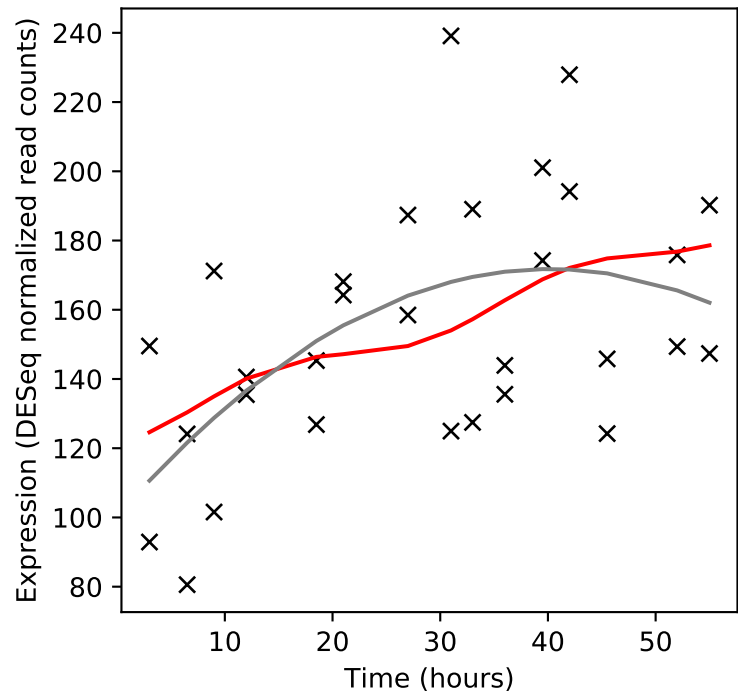
Rv3386/-



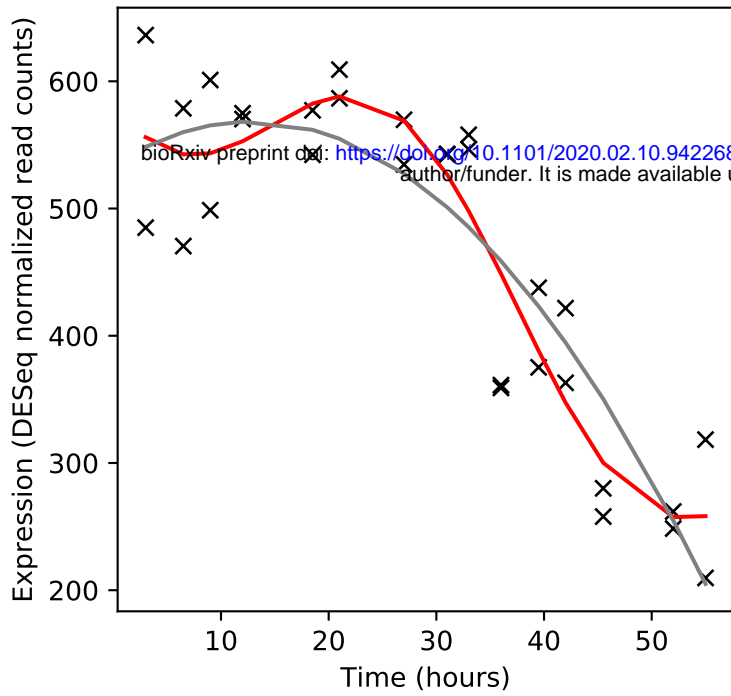
Rv3387/-



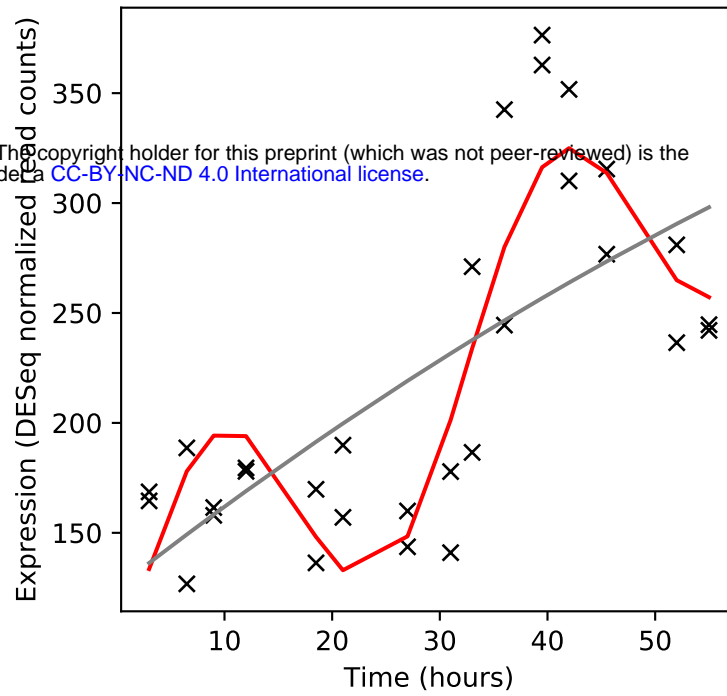
Rv3388/PE_PGRS52



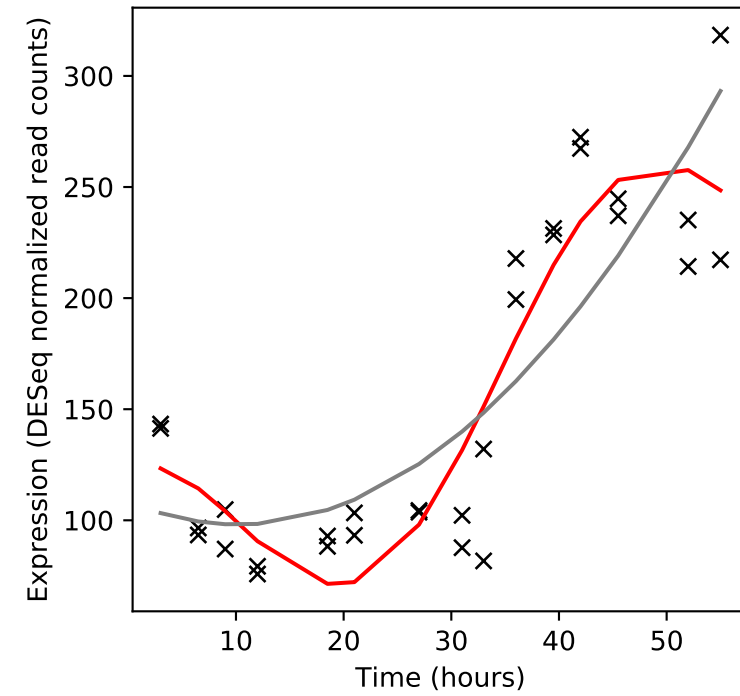
Rv3389c/htdY



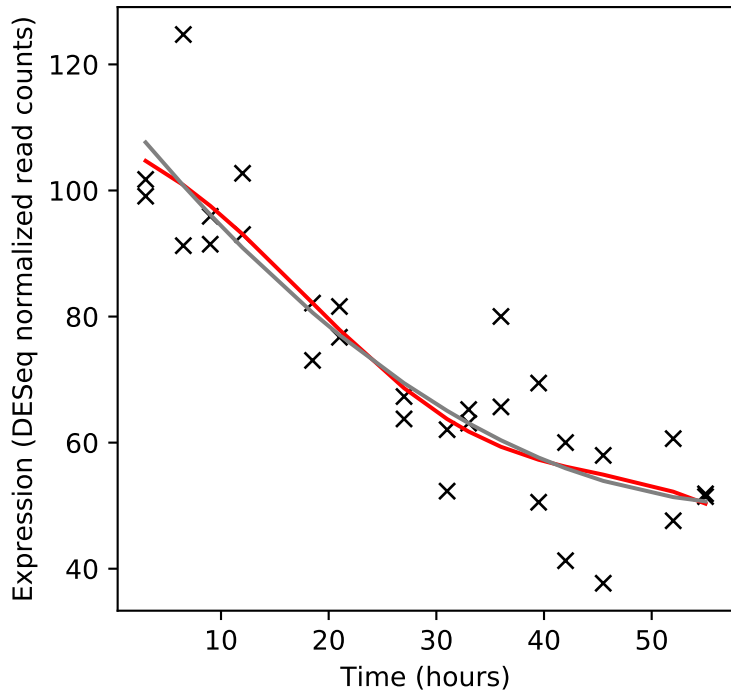
Rv3390/lpqD



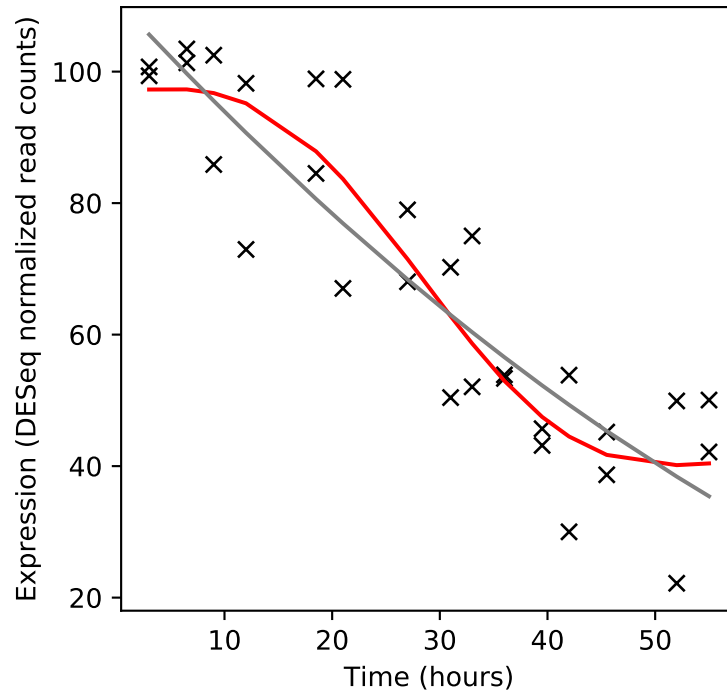
Rv3391/acrA1



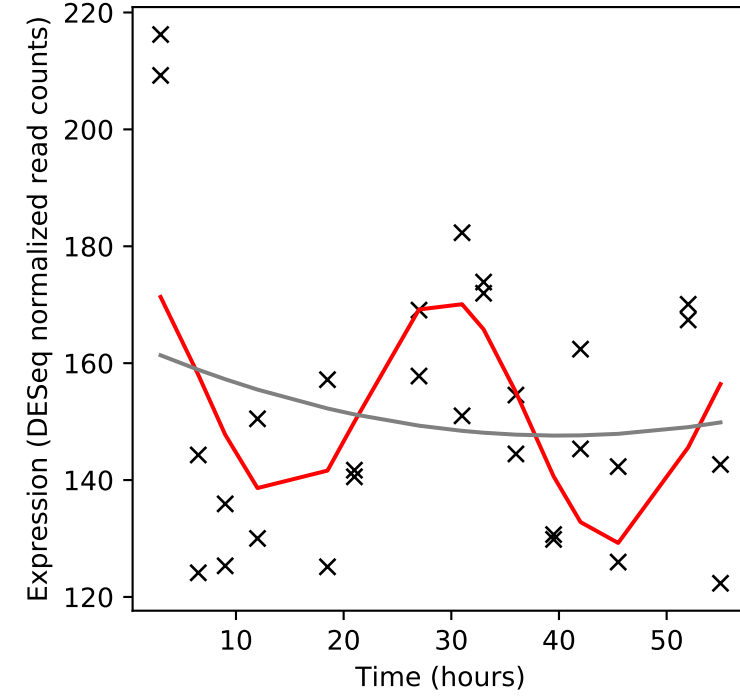
Rv3392c/cmaA1



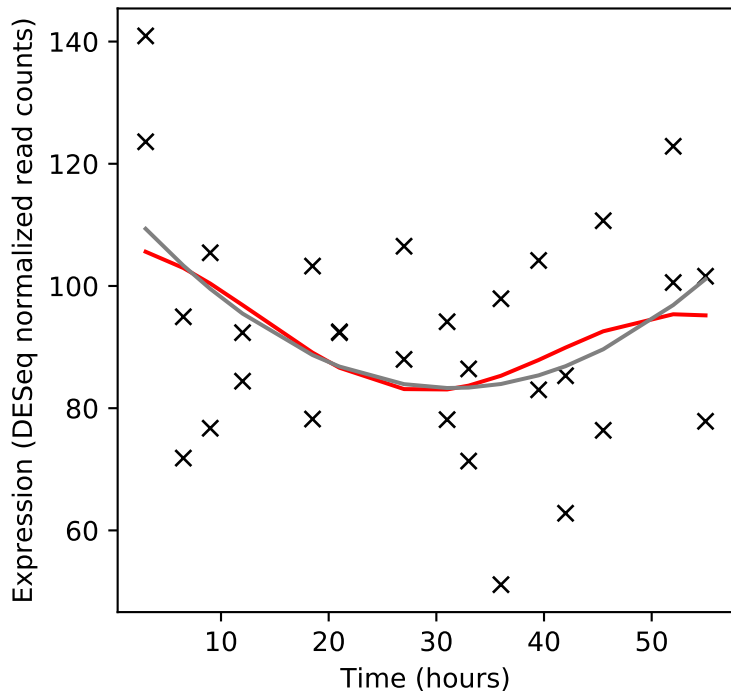
Rv3393/iunH



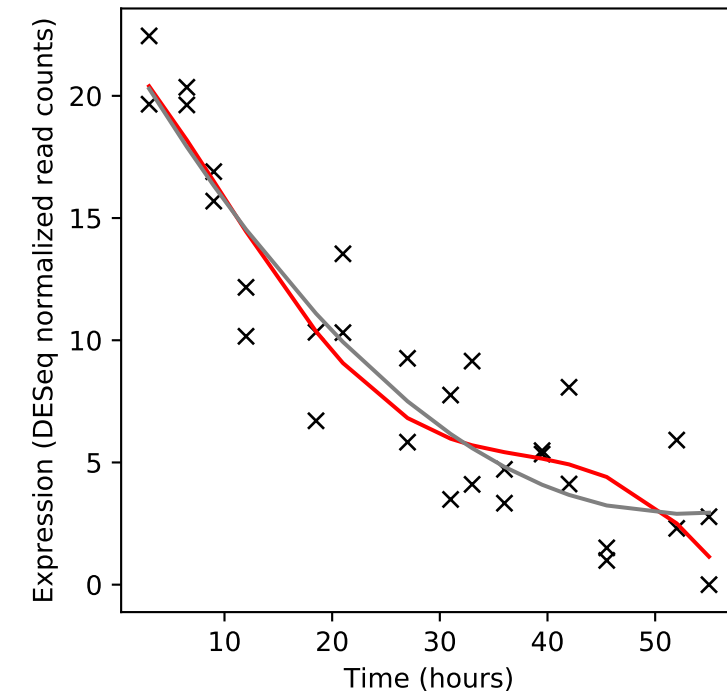
Rv3394c/-



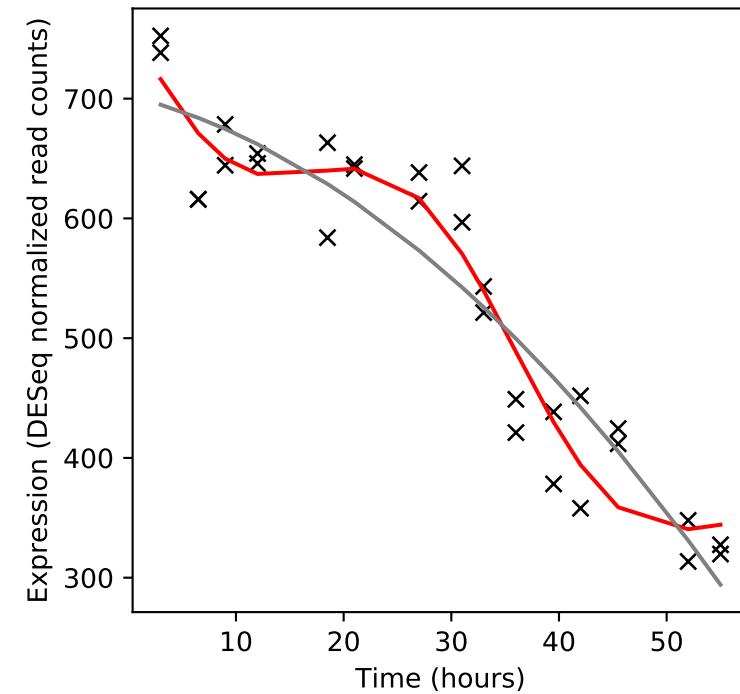
Rv3395c/-



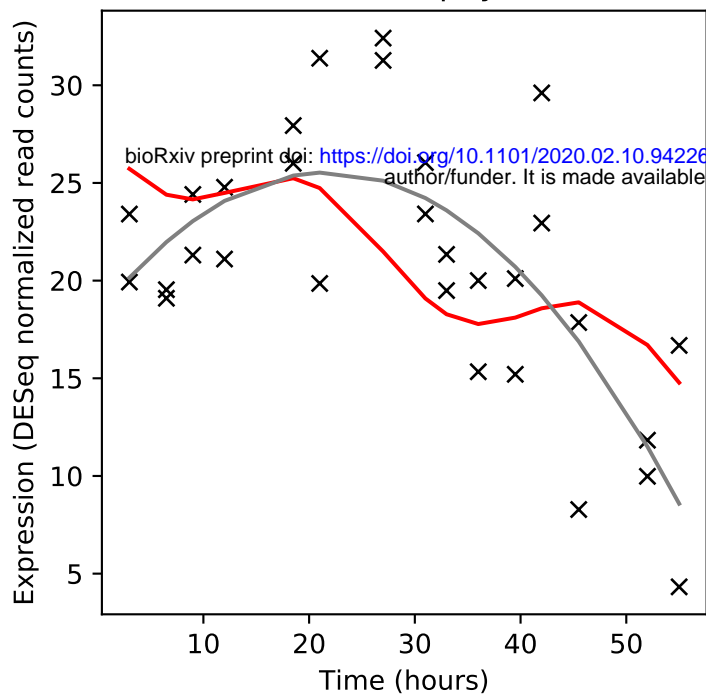
Rv3395A/-



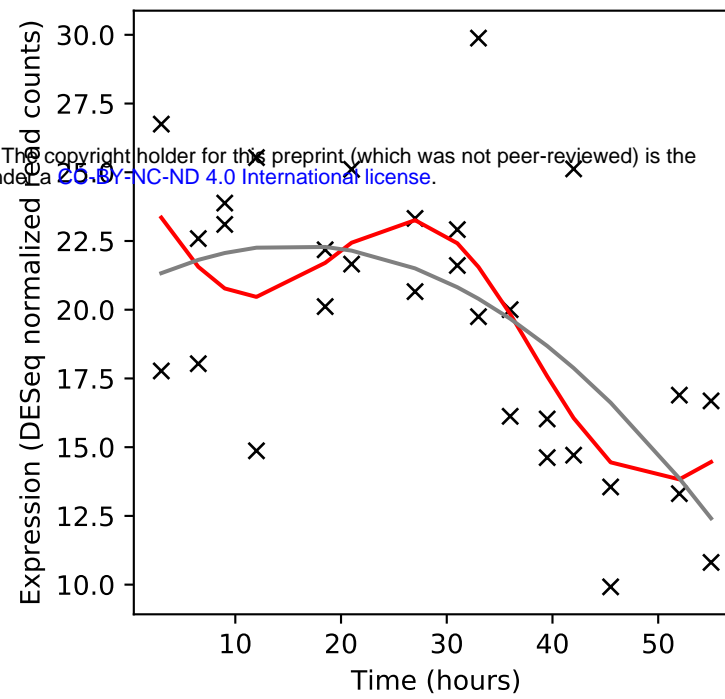
Rv3396c/guaA



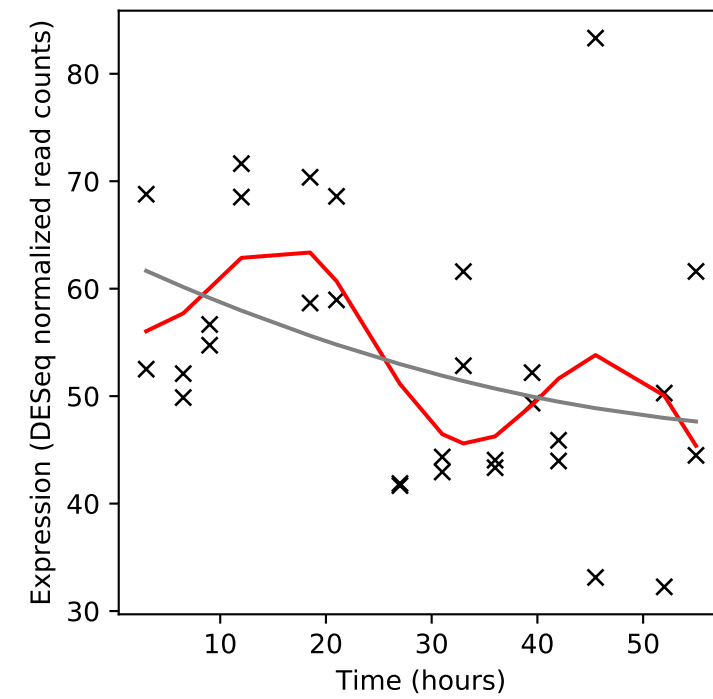
Rv3397c/phyA



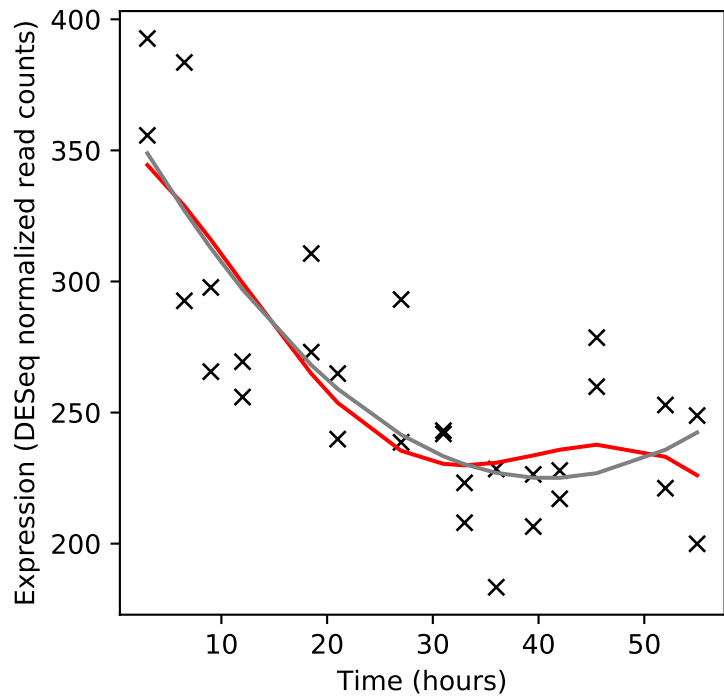
Rv3398c/idsA1



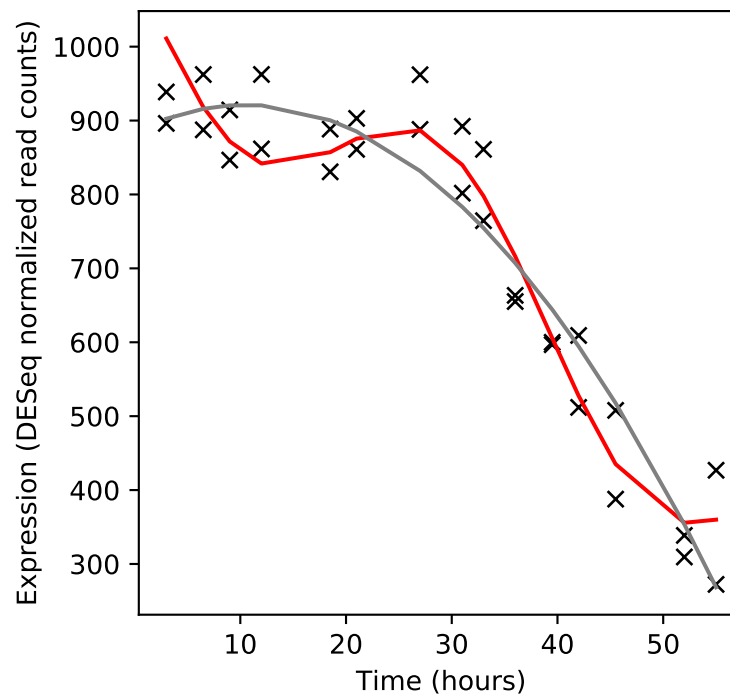
Rv3399/-



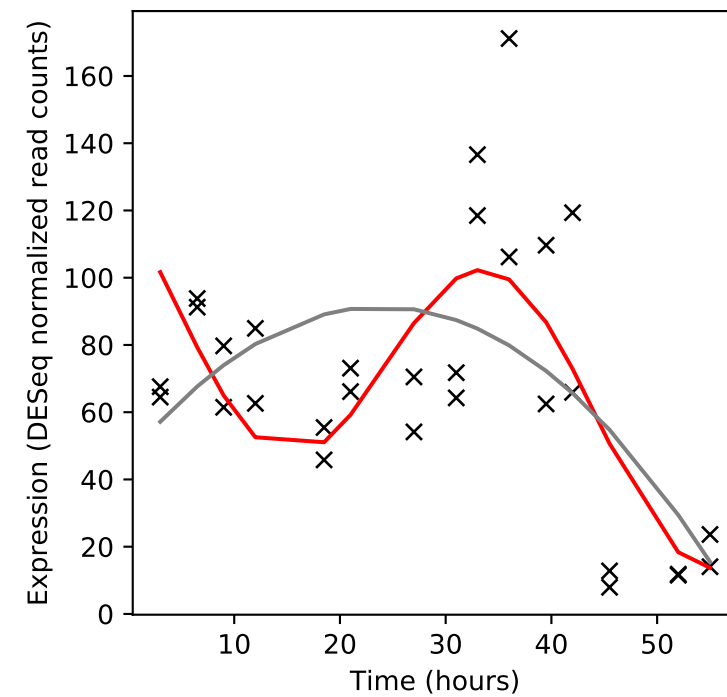
Rv3400/-



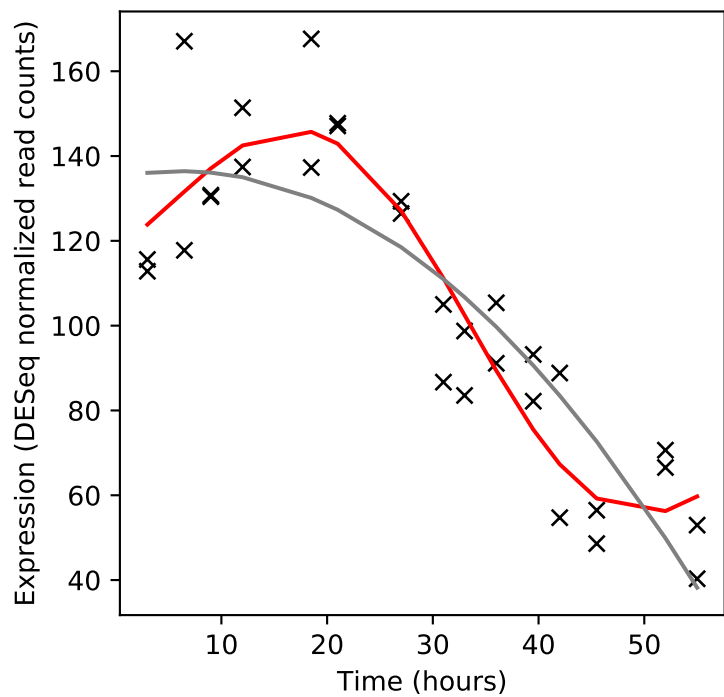
Rv3401/-



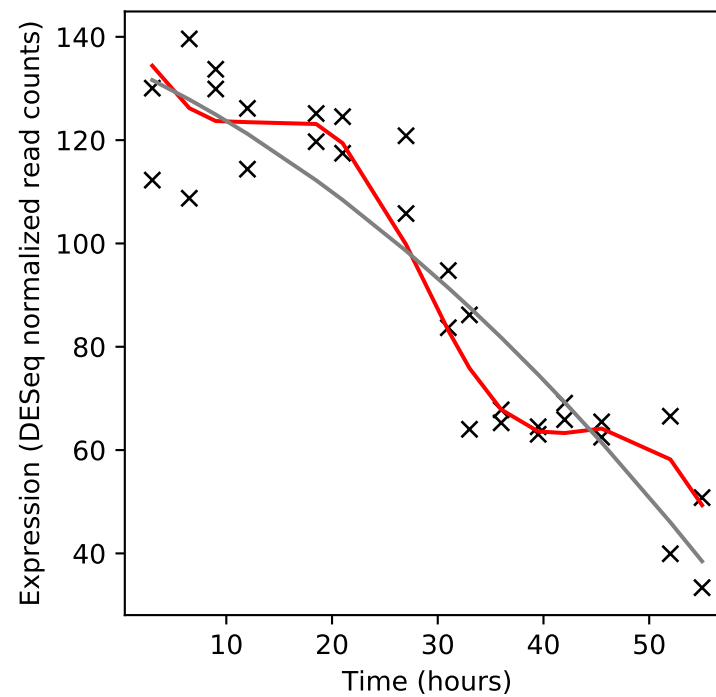
Rv3402c/-



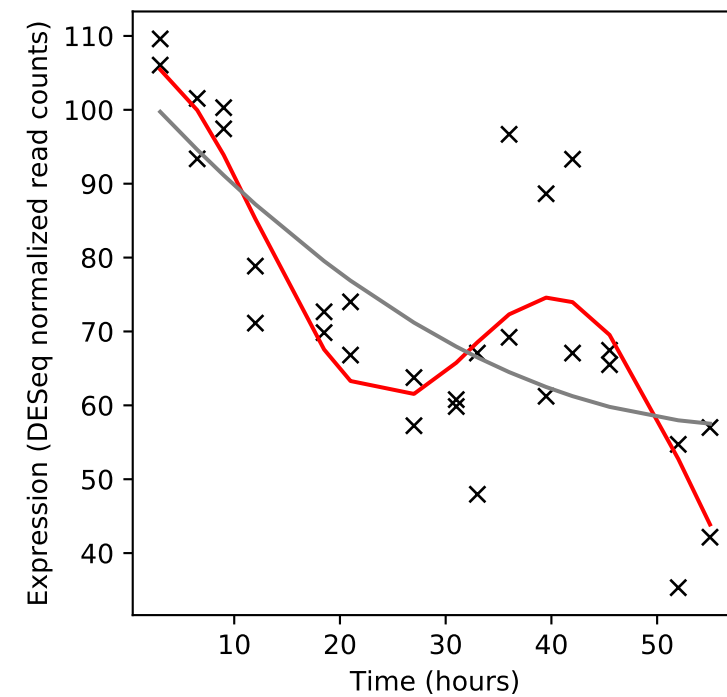
Rv3403c/-



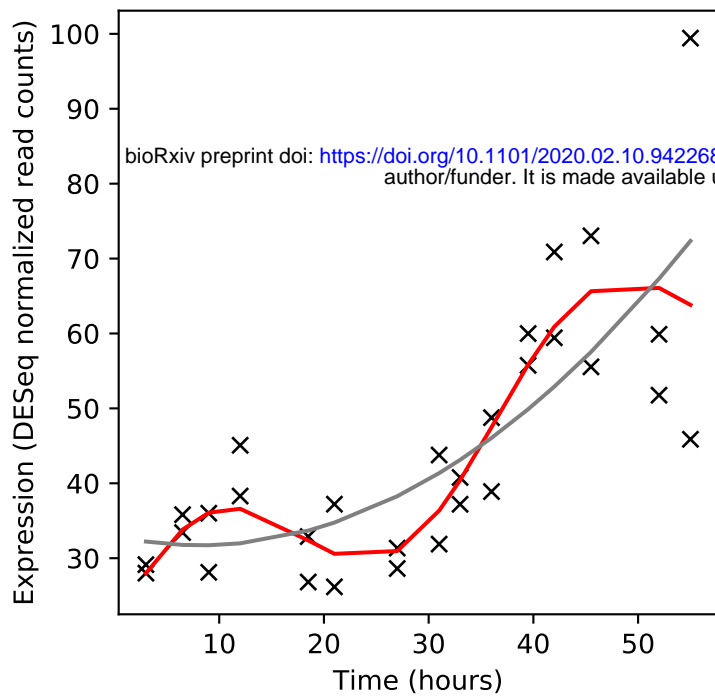
Rv3404c/-



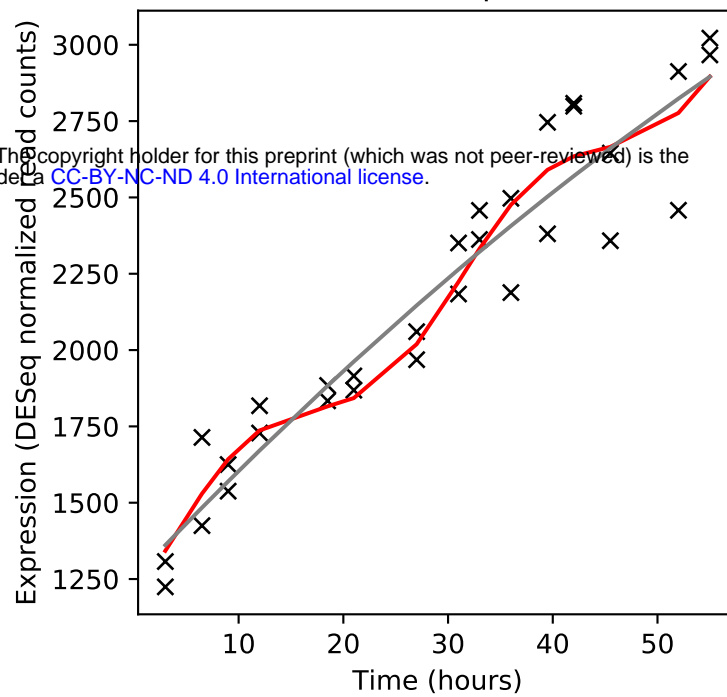
Rv3405c/-



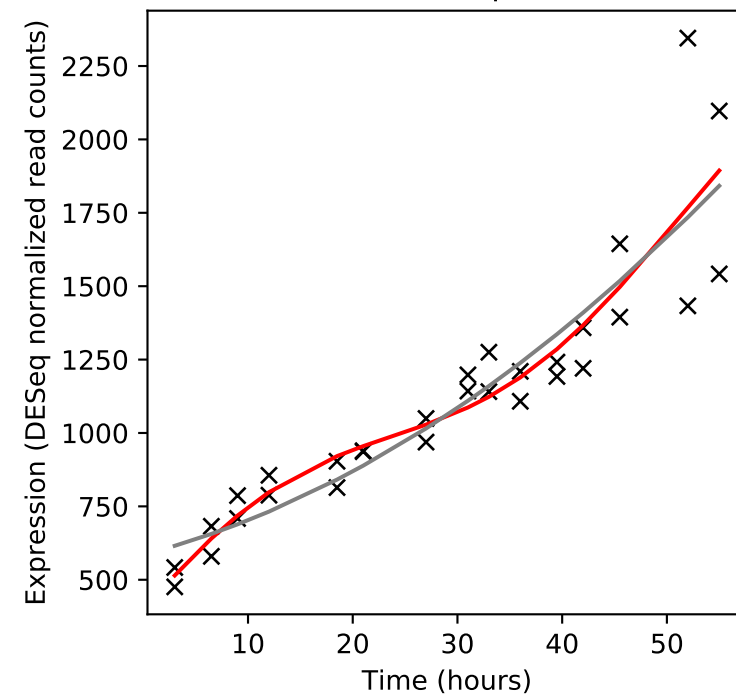
Rv3406/-



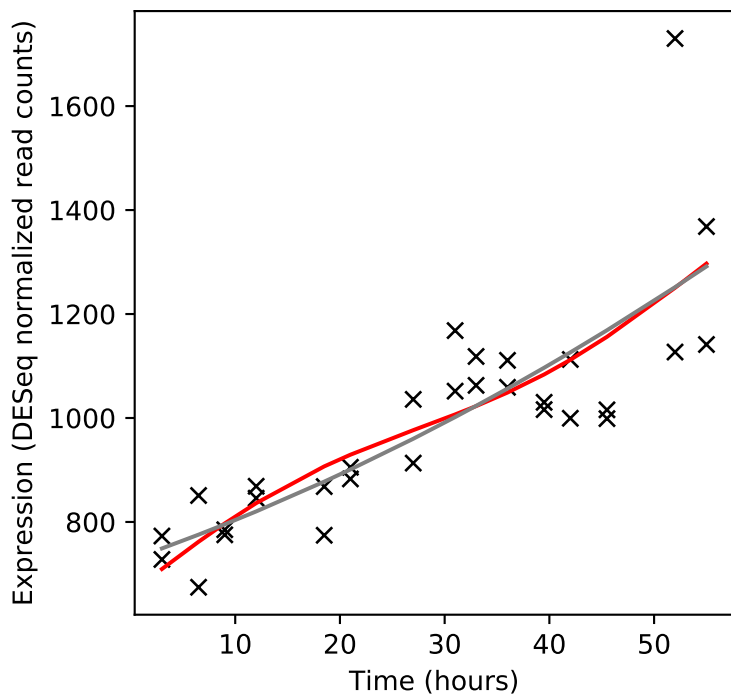
Rv3407/vapB47



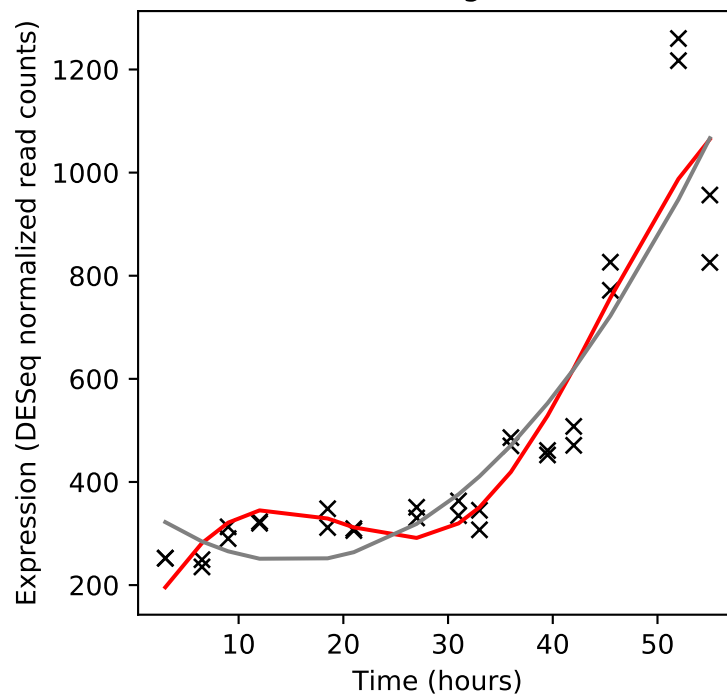
Rv3408/vapC47



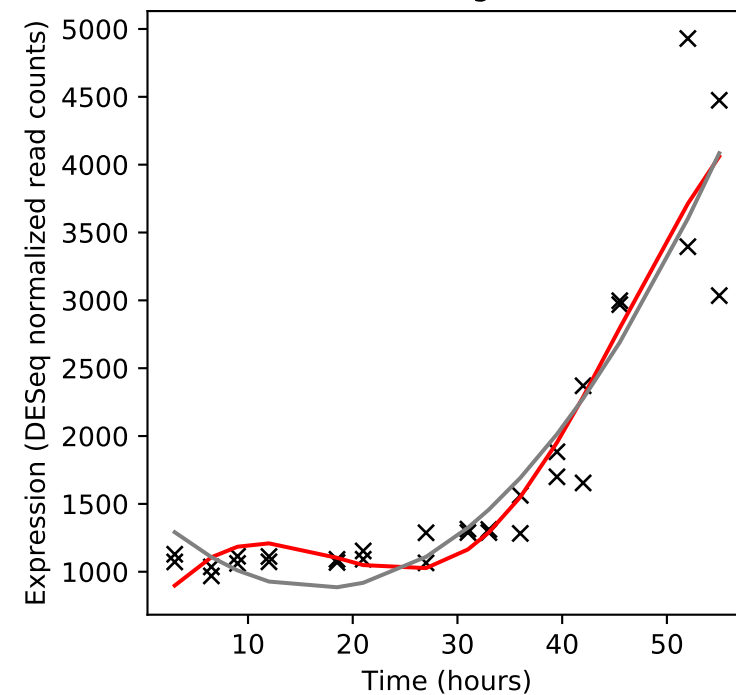
Rv3409c/choD



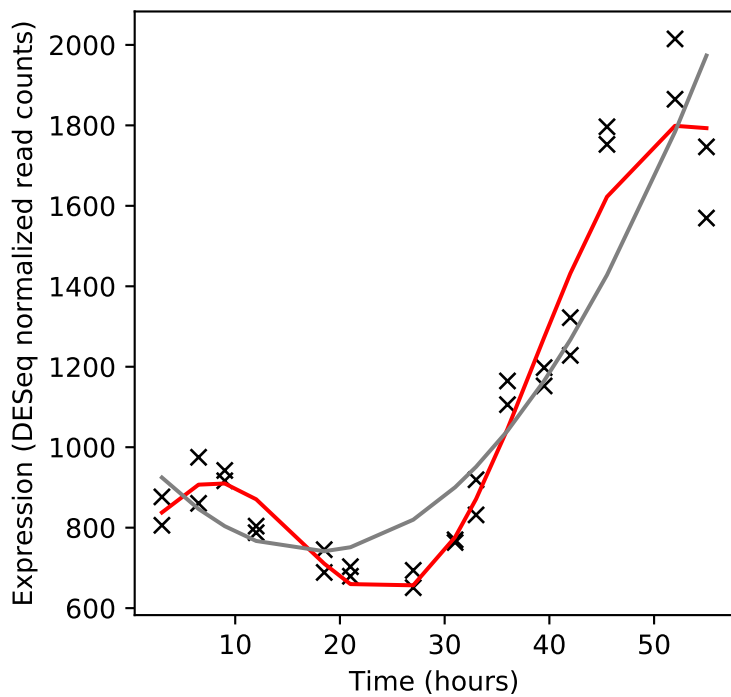
Rv3410c/guaB3



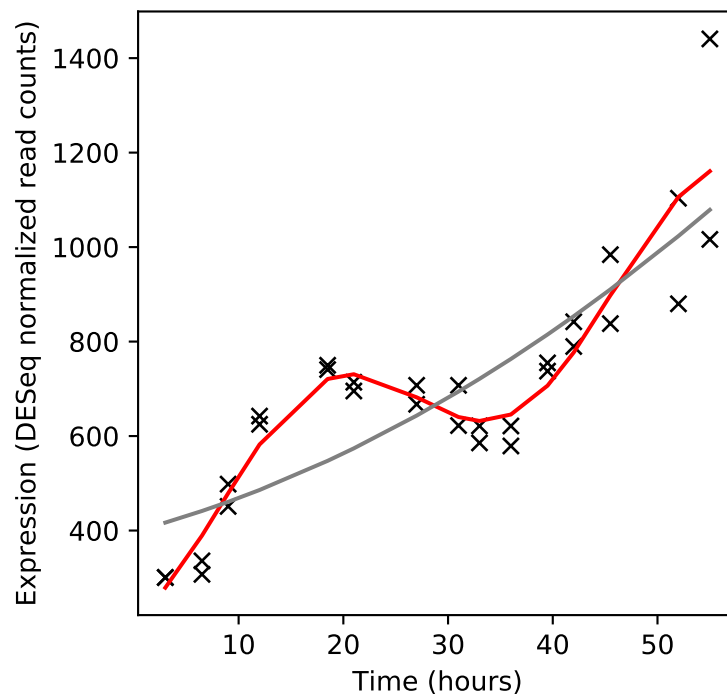
Rv3411c/guaB2



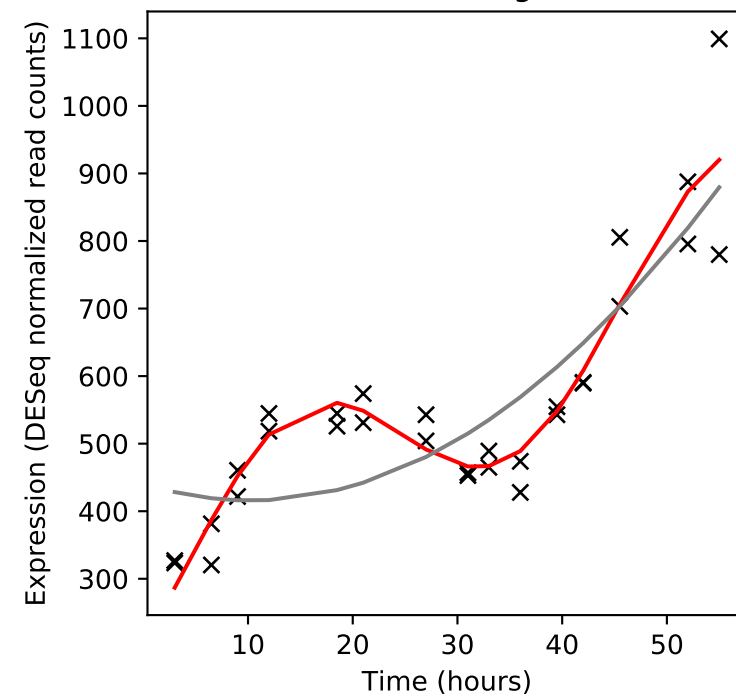
Rv3412/-



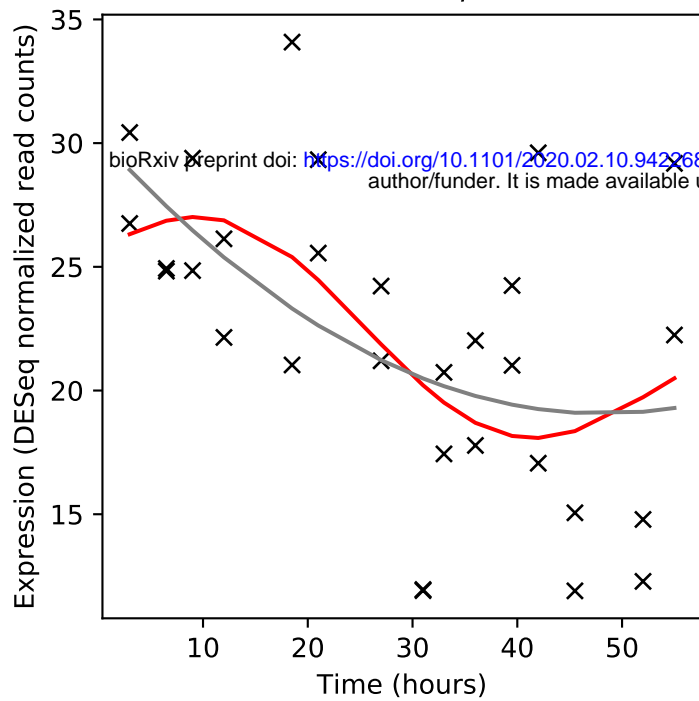
Rv3413c/-



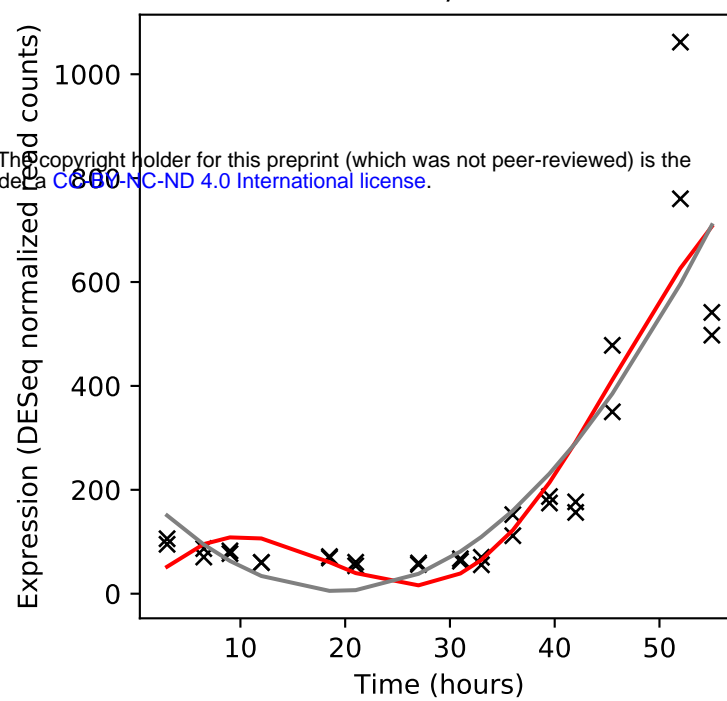
Rv3414c/sigD



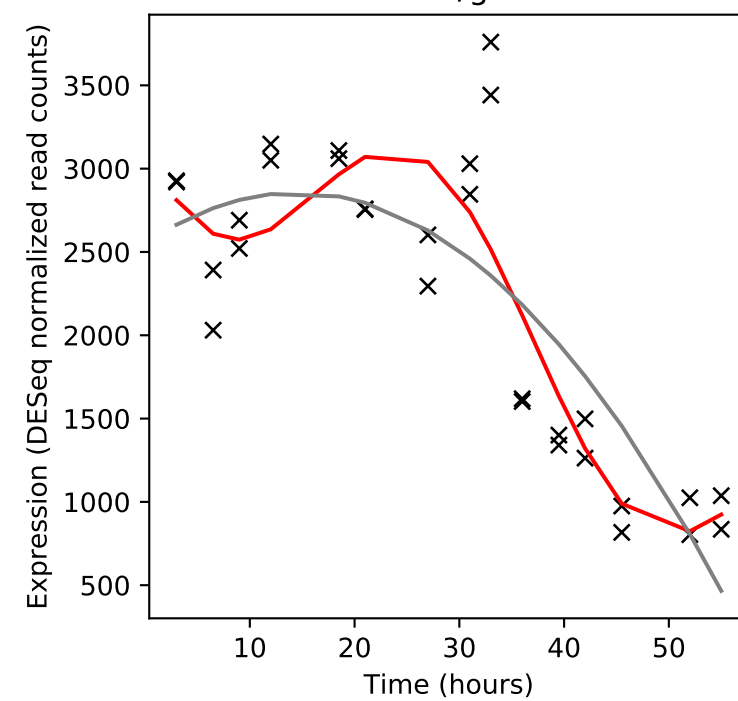
Rv3415c/-



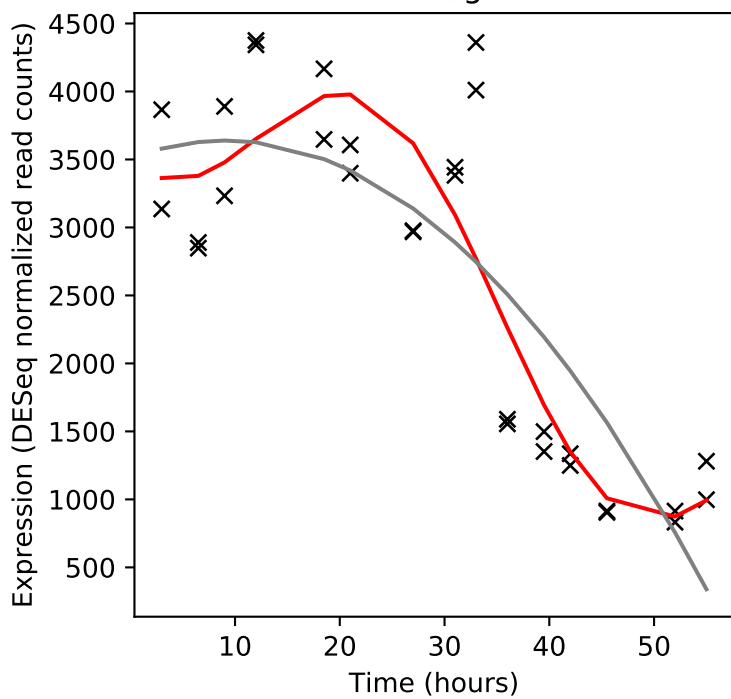
Rv3416/whiB3



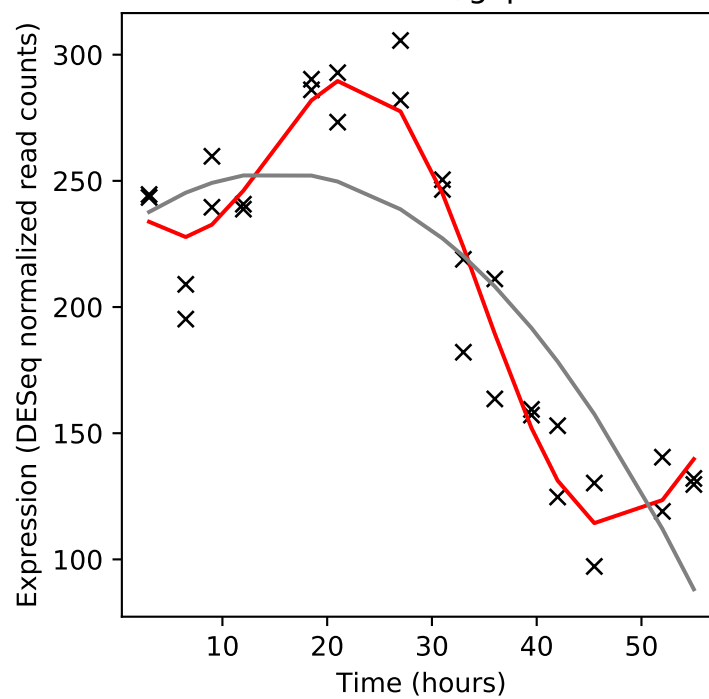
Rv3417c/groEL1



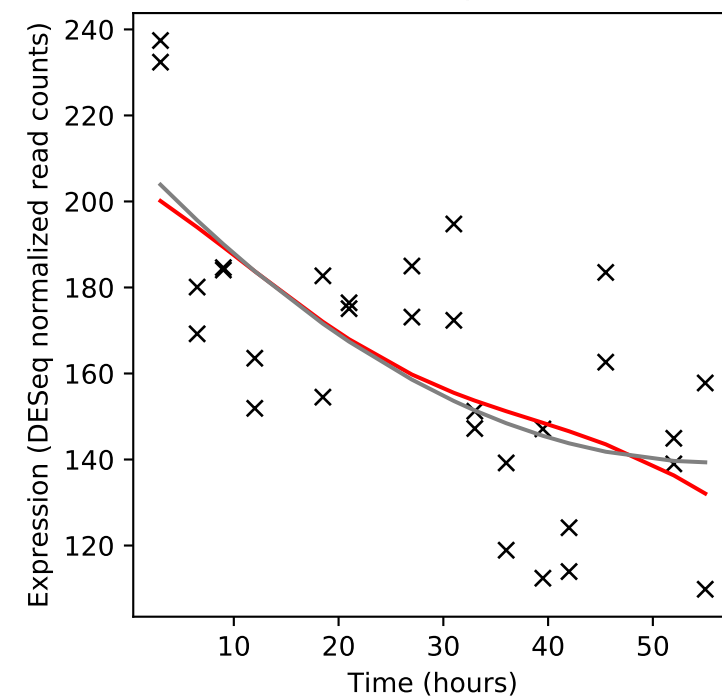
Rv3418c/groES



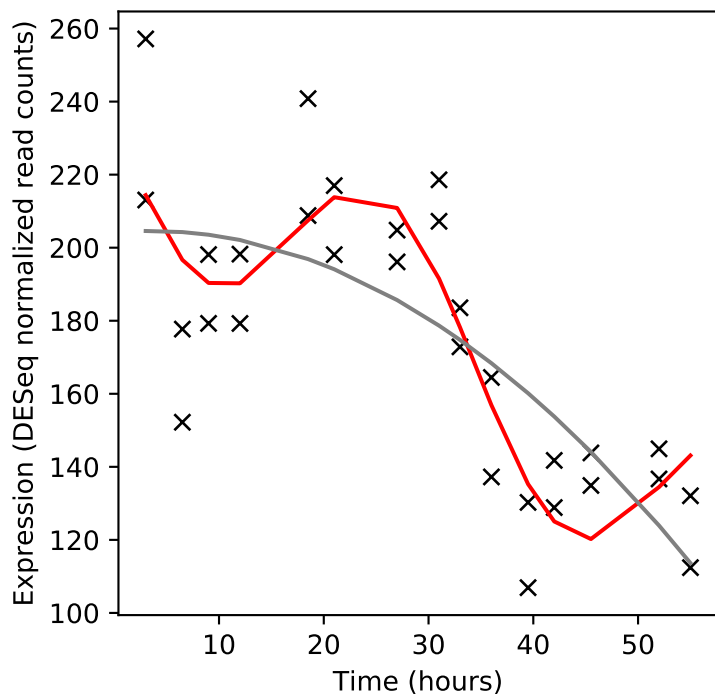
Rv3419c/gcp



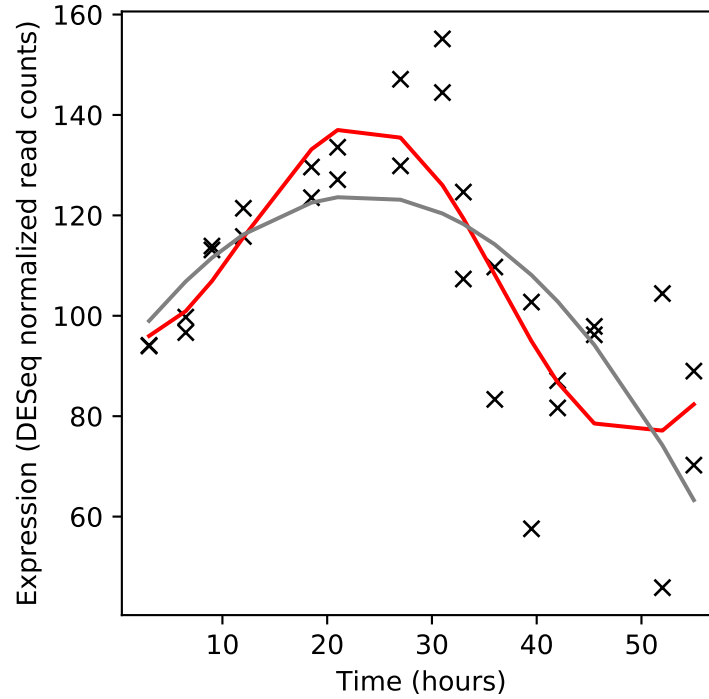
Rv3420c/rimI



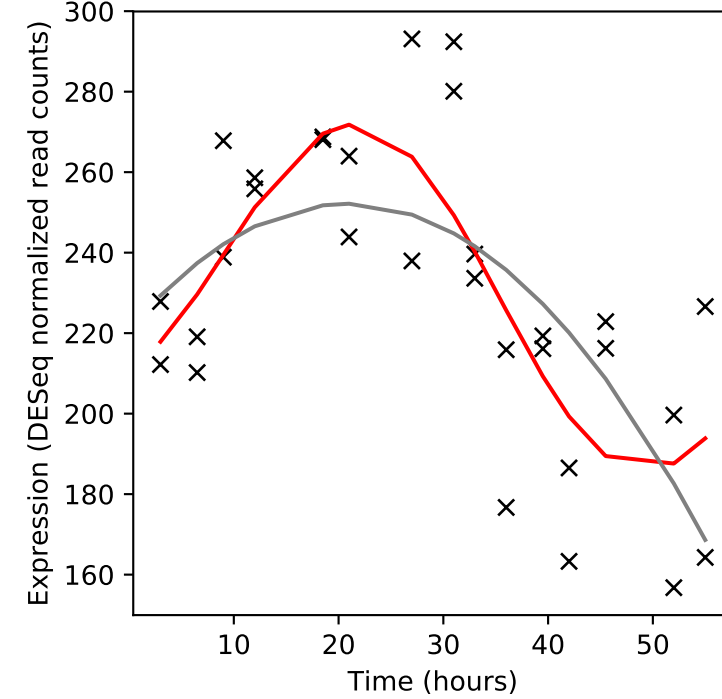
Rv3421c/-



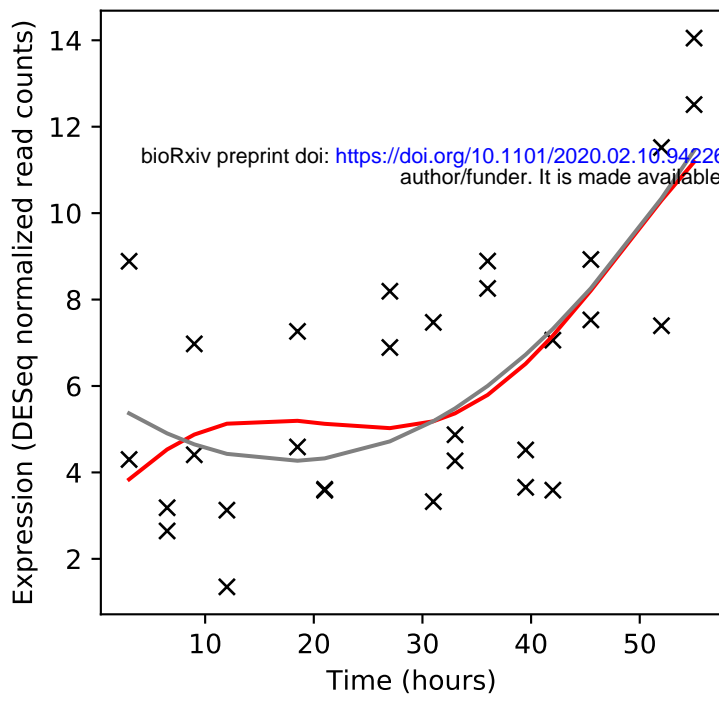
Rv3422c/-



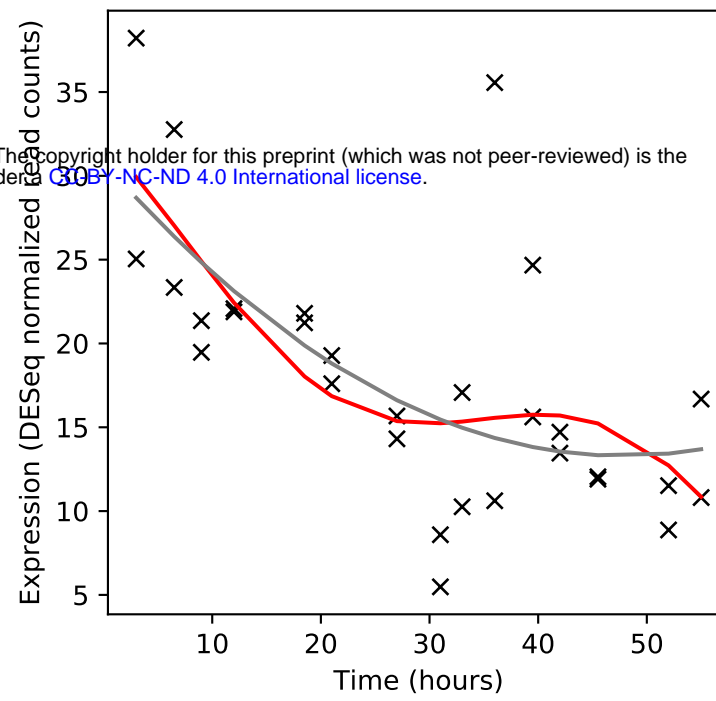
Rv3423c/alr



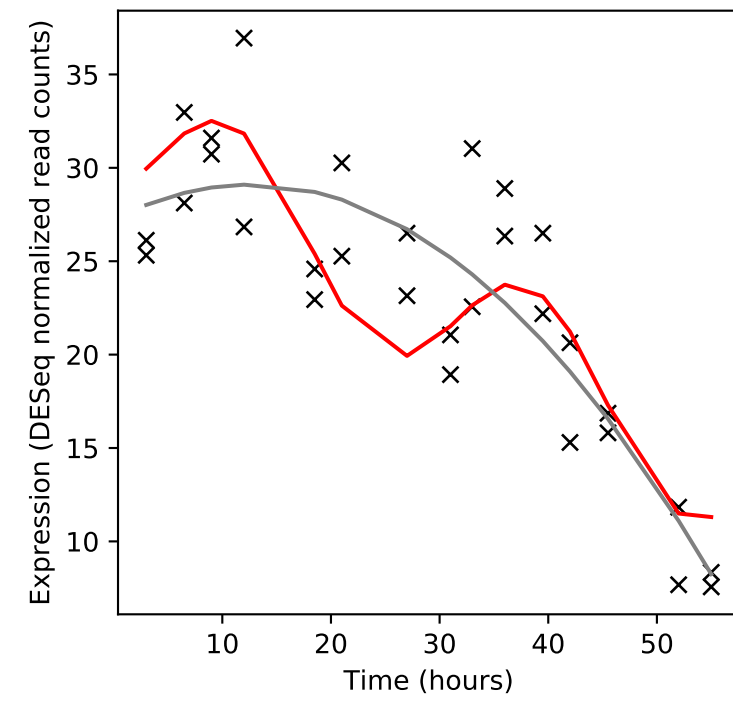
Rv3424c/-



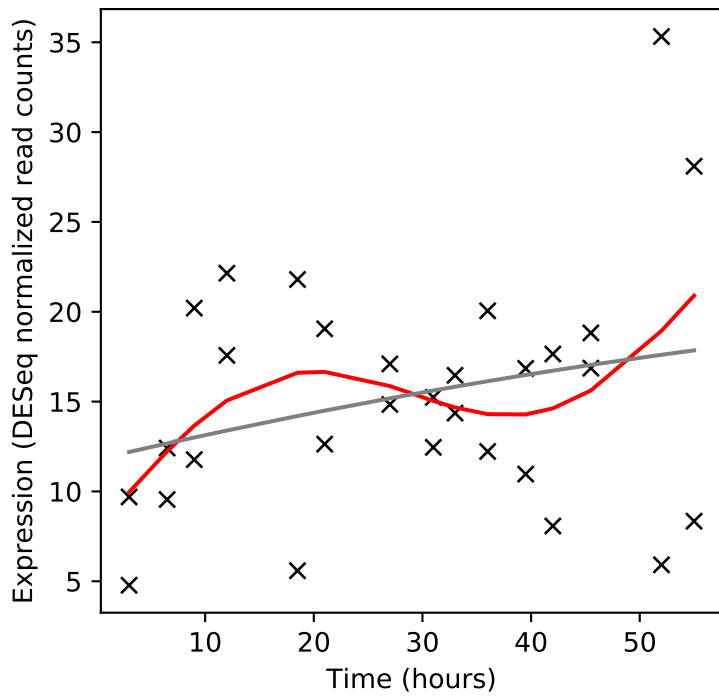
Rv3425/PPE57



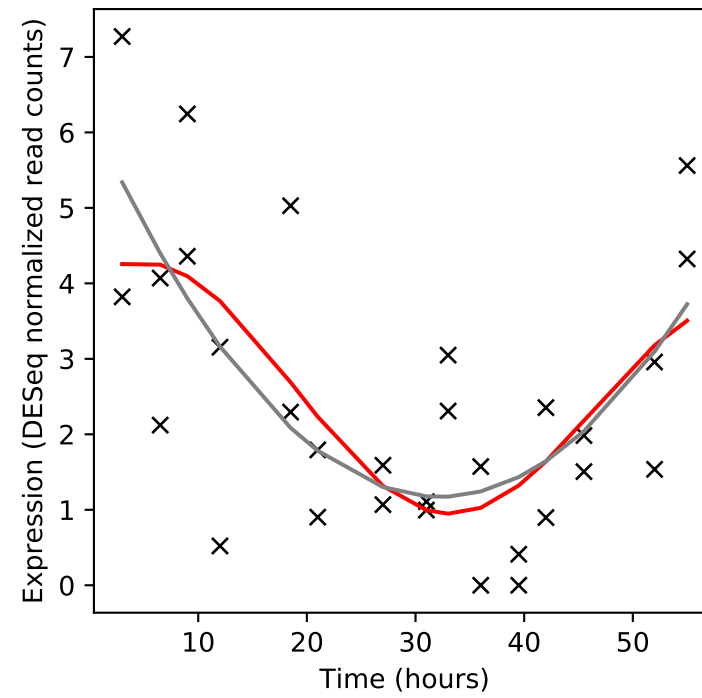
Rv3426/PPE58



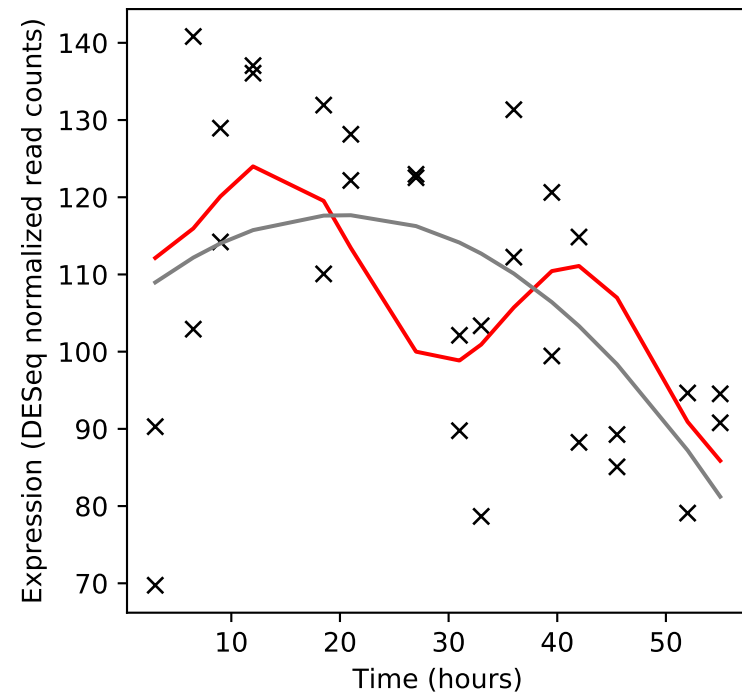
Rv3427c/-



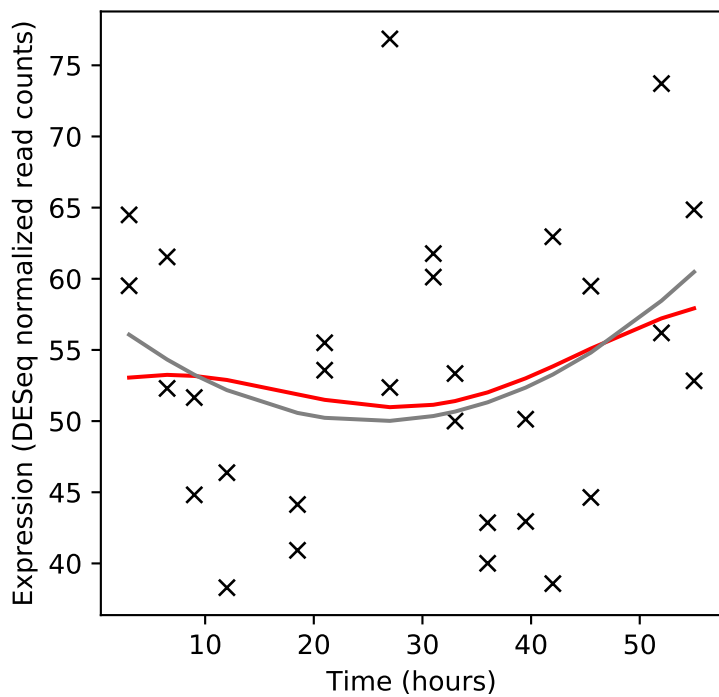
Rv3428c/-



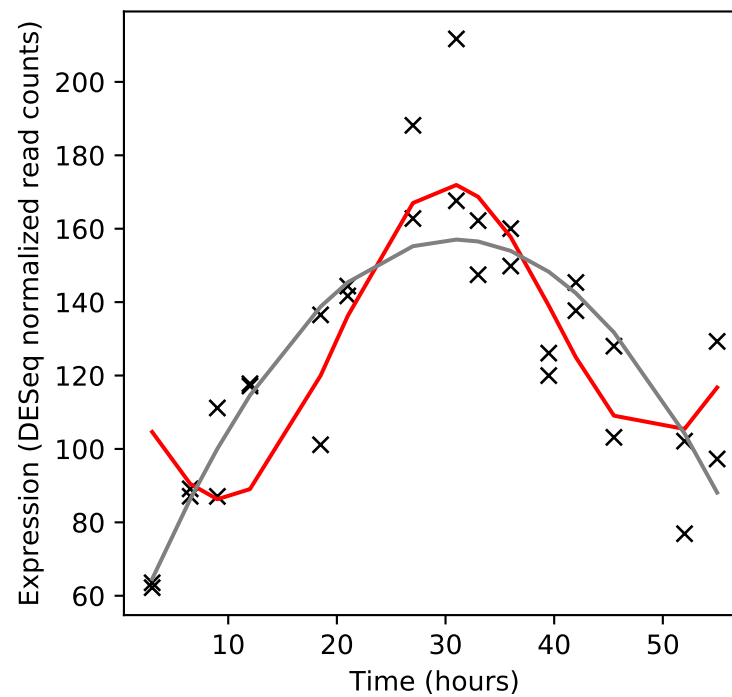
Rv3429/PPE59



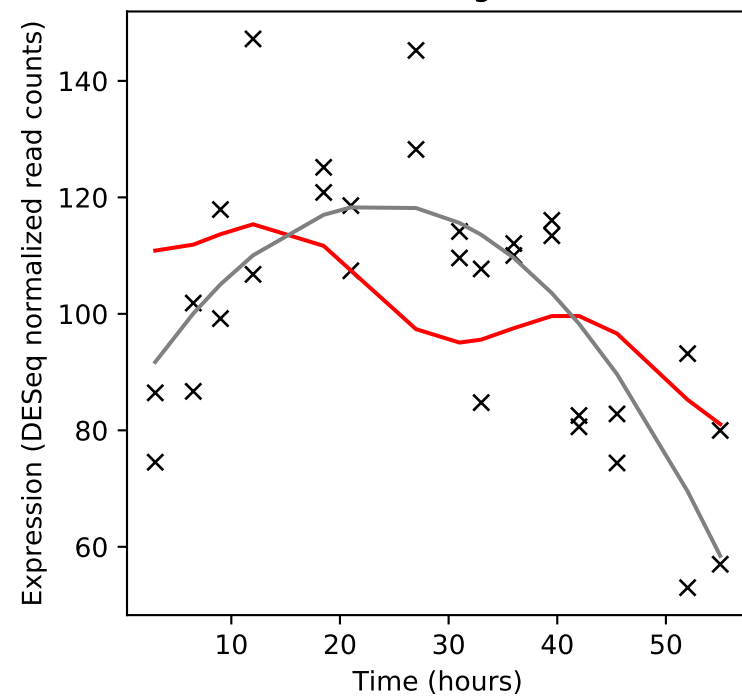
Rv3430c/-



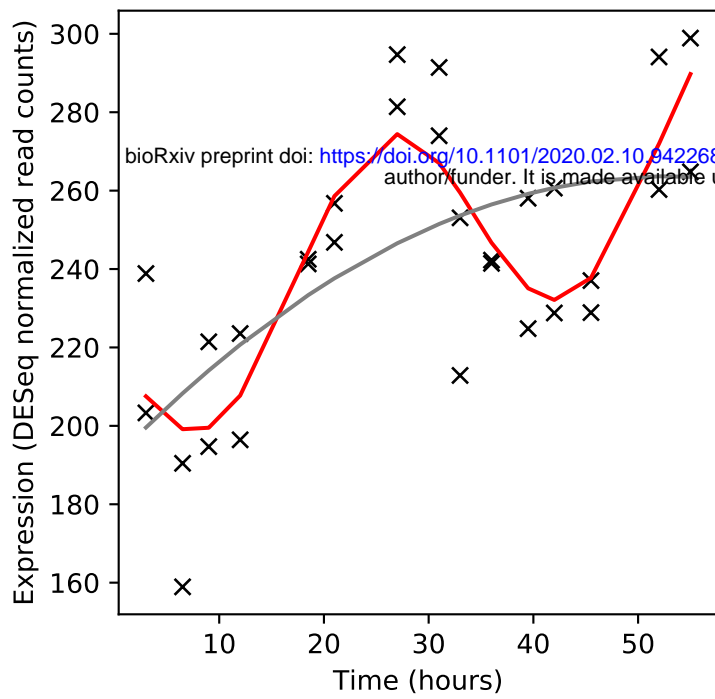
Rv3431c/-



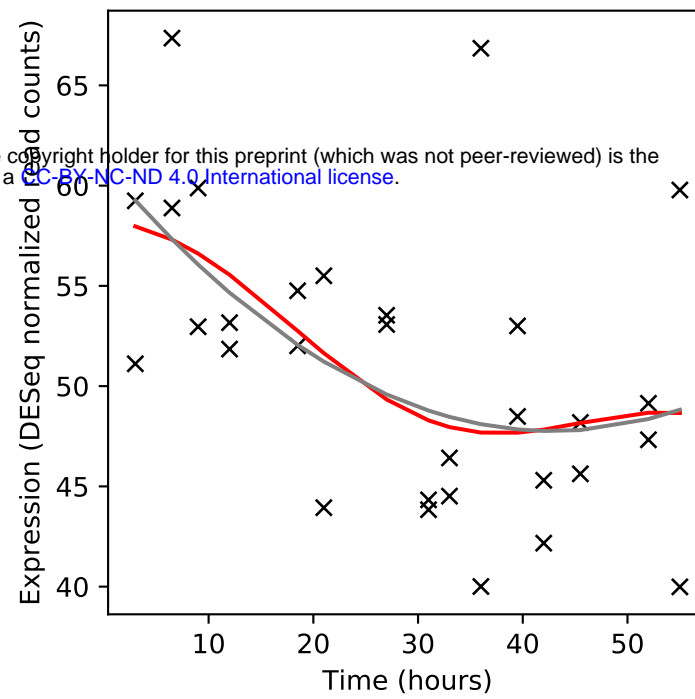
Rv3432c/gadB



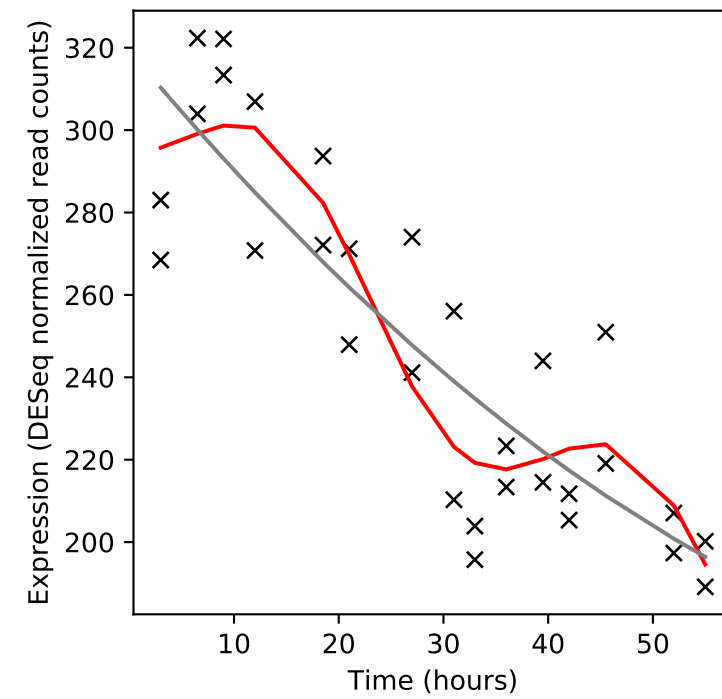
Rv3433c/-



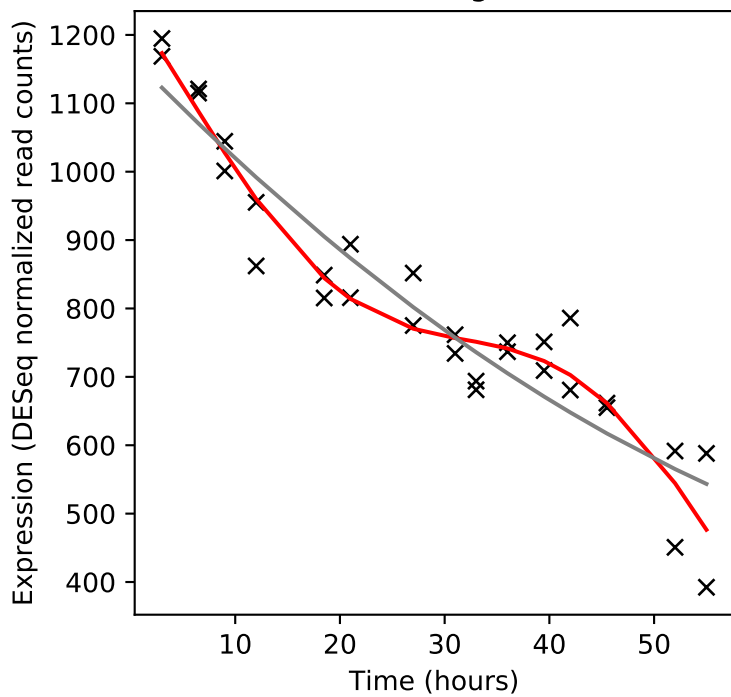
Rv3434c/-



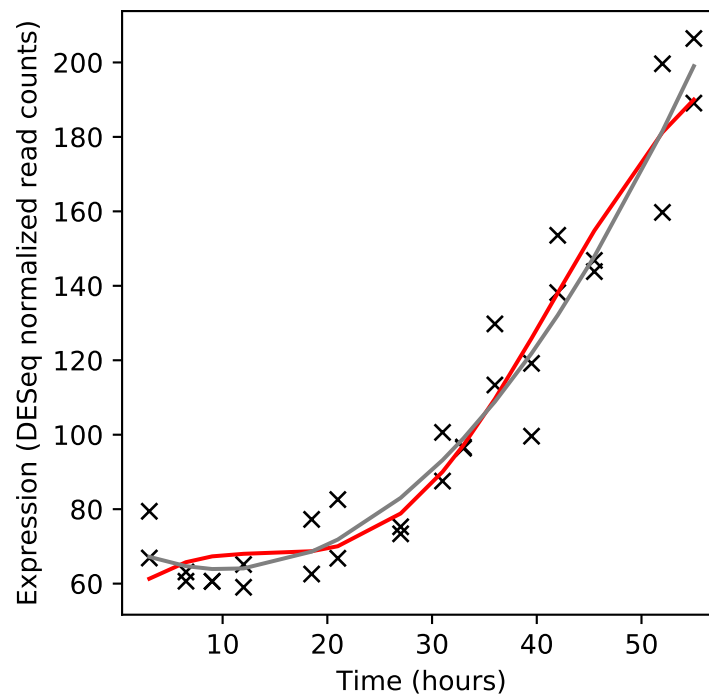
Rv3435c/-



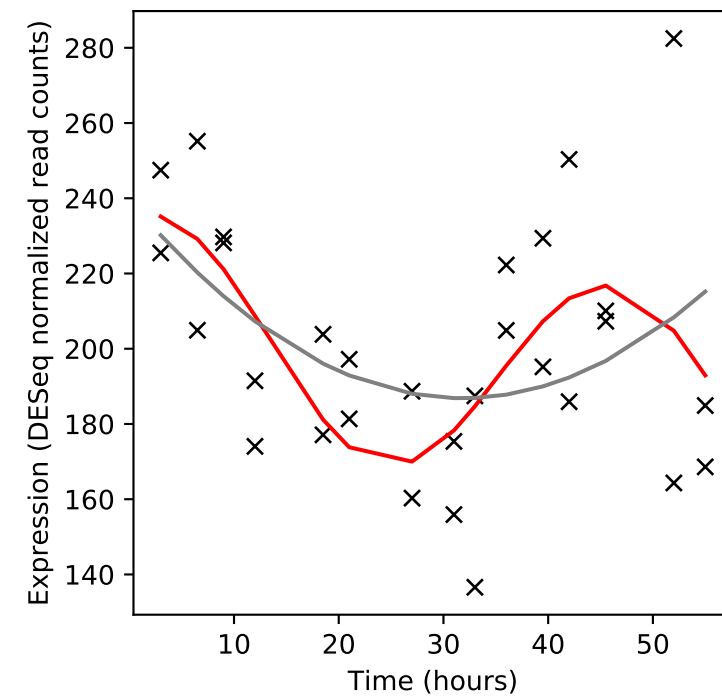
Rv3436c/glmS



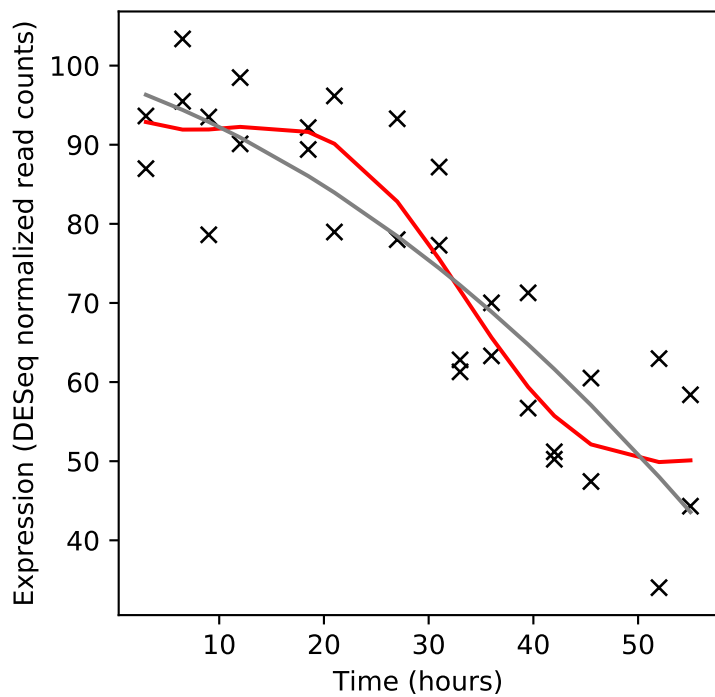
Rv3437/-



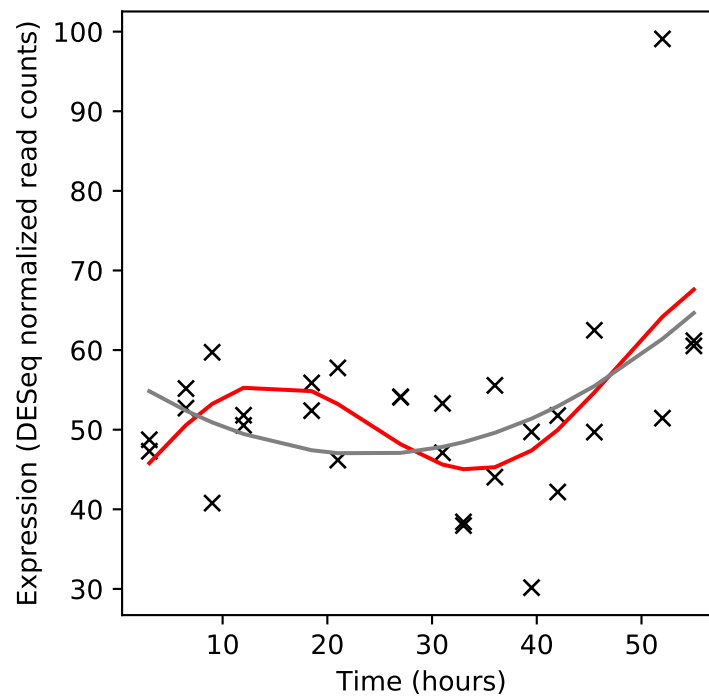
Rv3438/-



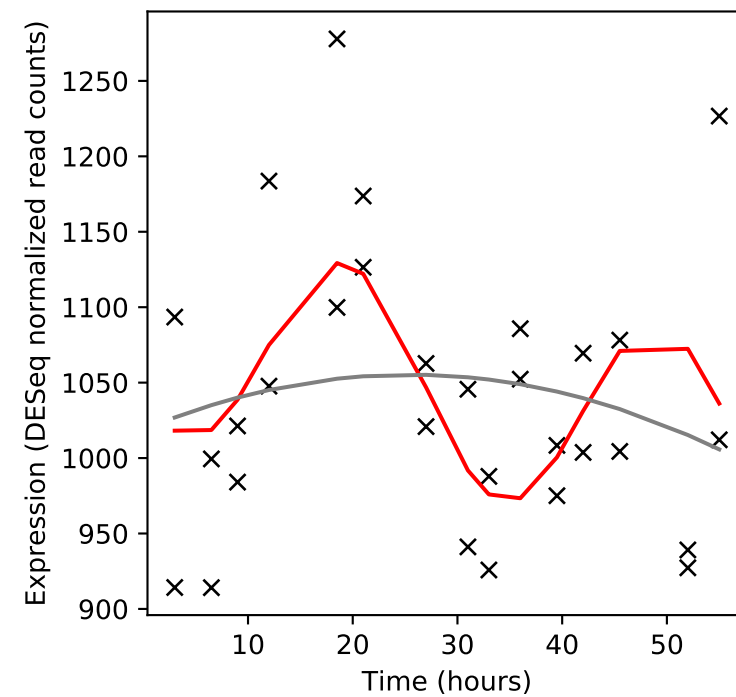
Rv3439c/-



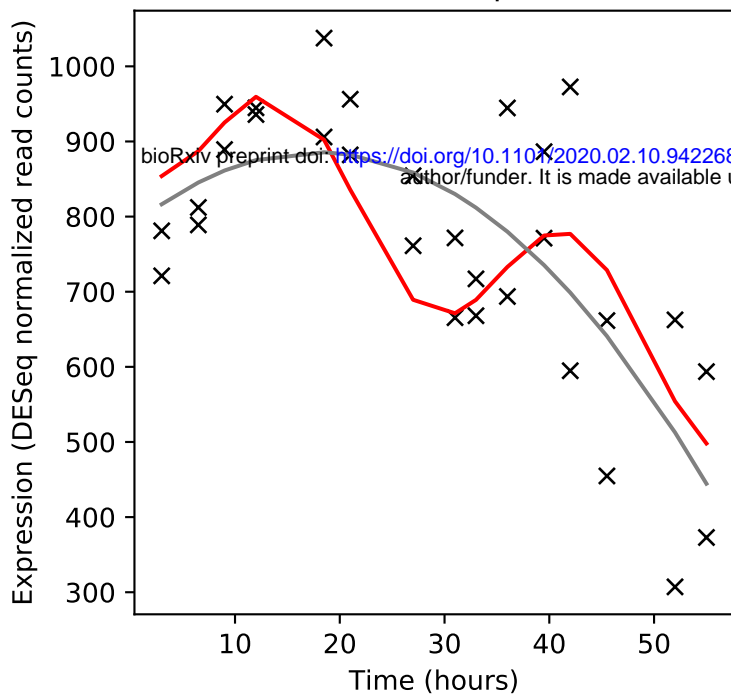
Rv3440c/-



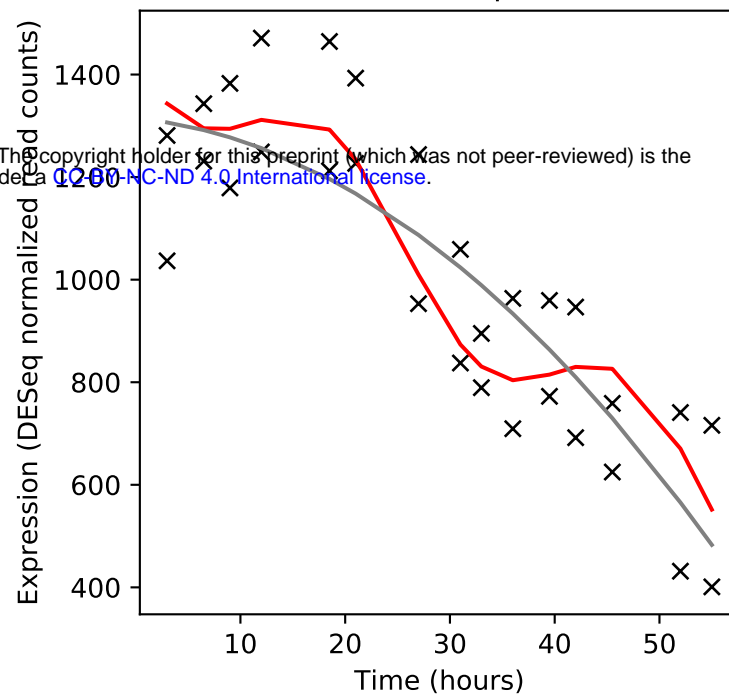
Rv3441c/mrsA



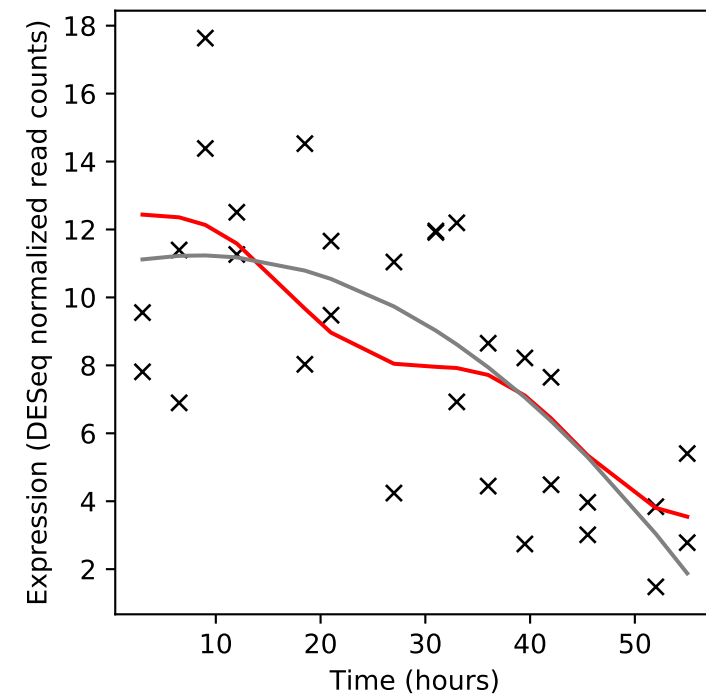
Rv3442c/rpsI



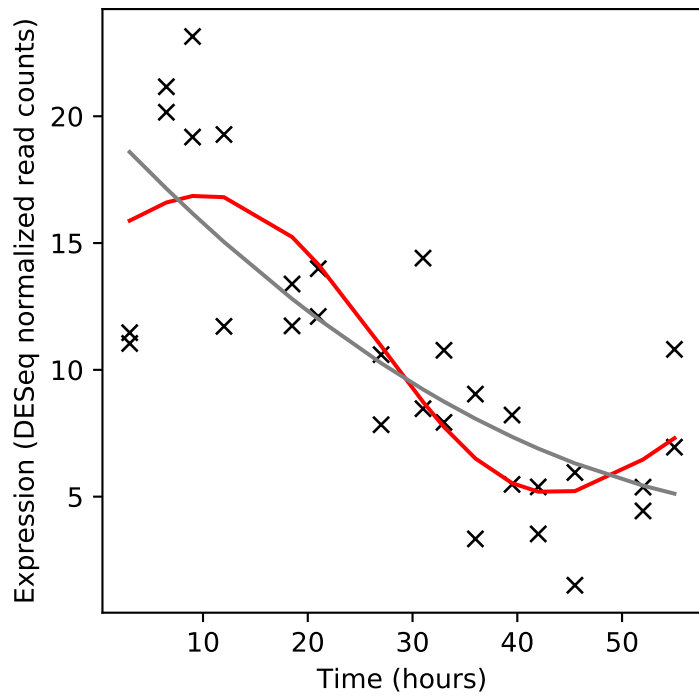
Rv3443c/rpIM



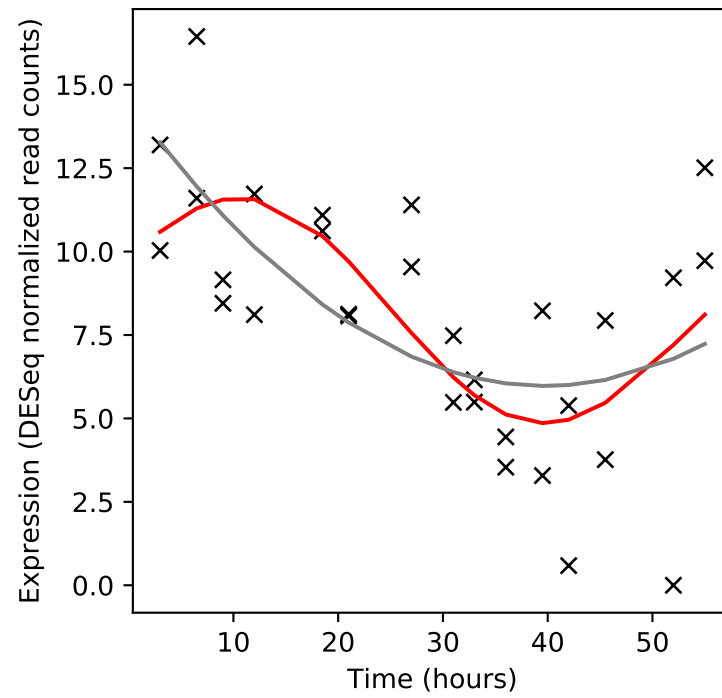
Rv3444c/esxT



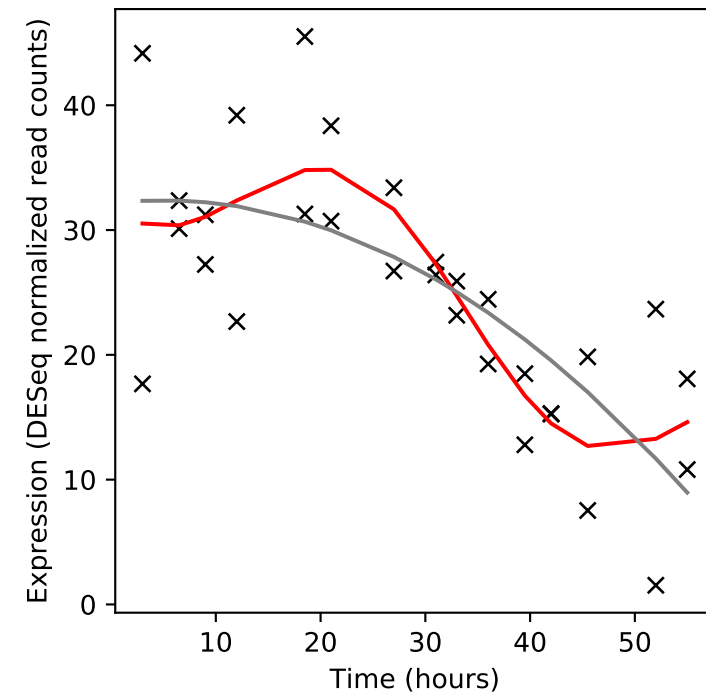
Rv3445c/esxU



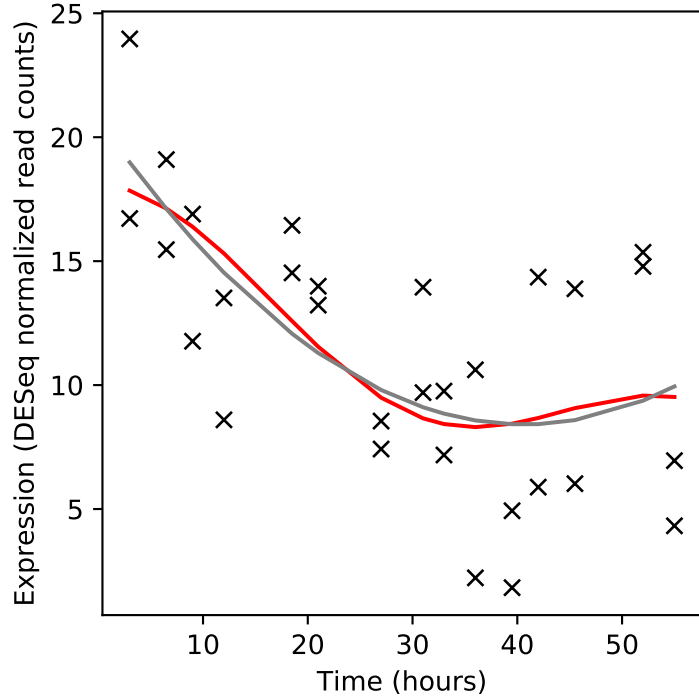
Rv3446c/-



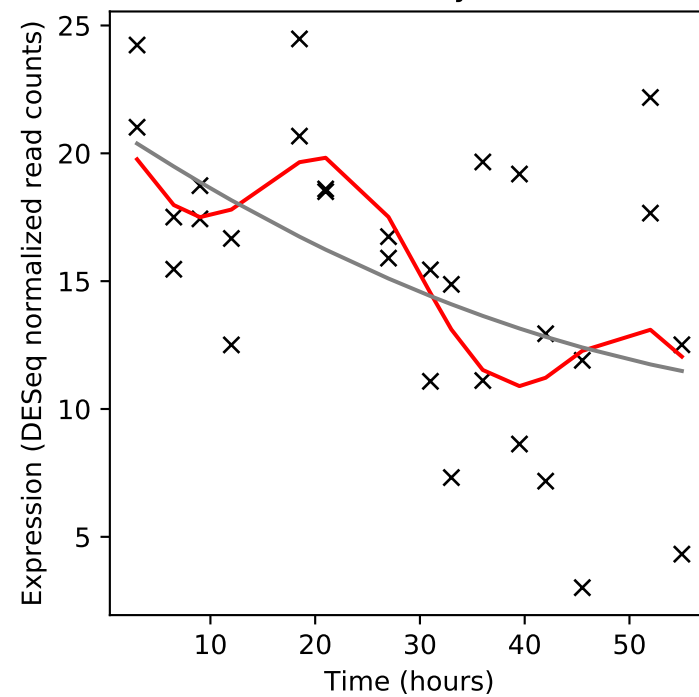
Rv3447c/eccC4



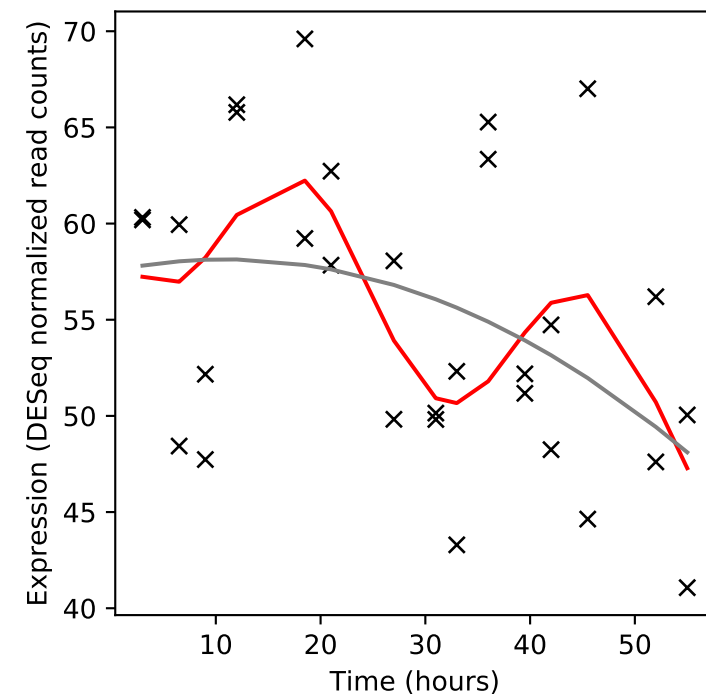
Rv3448/eccD4



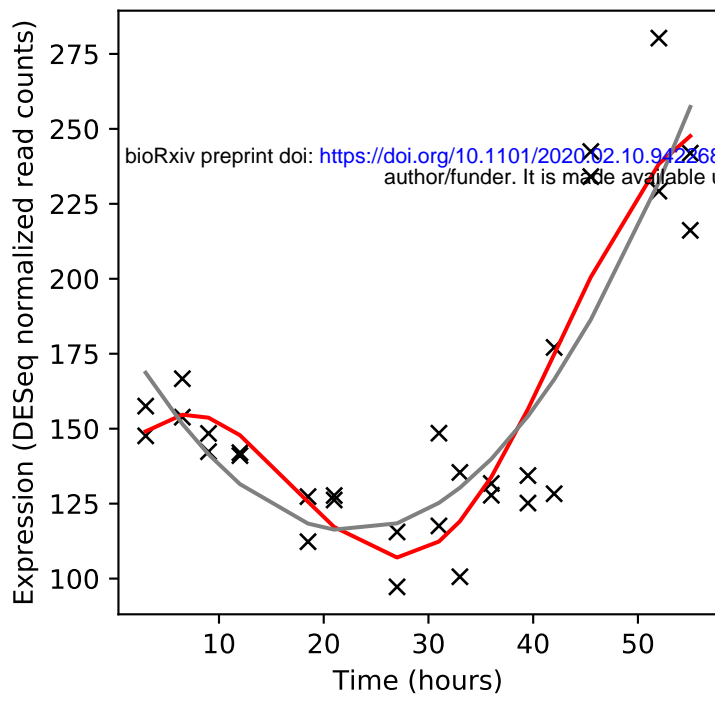
Rv3449/mycP4



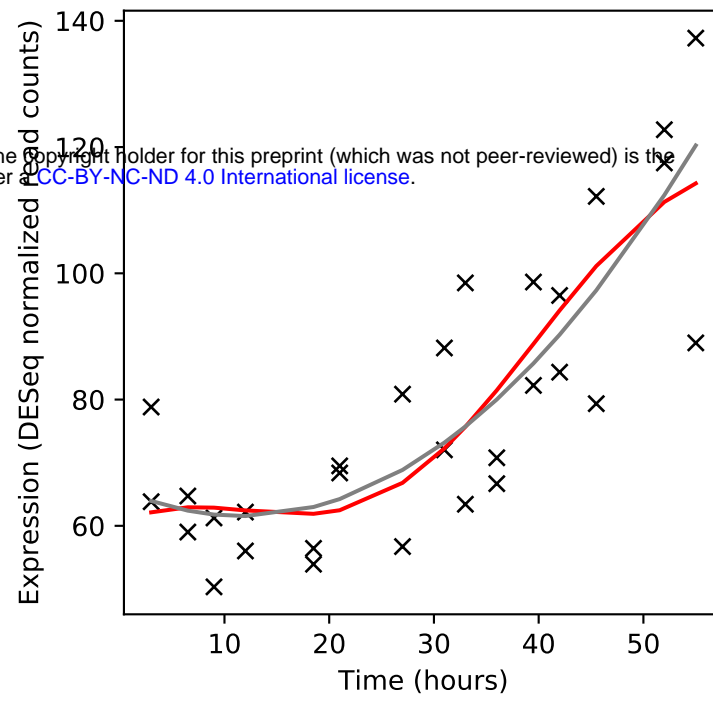
Rv3450c/eccB4



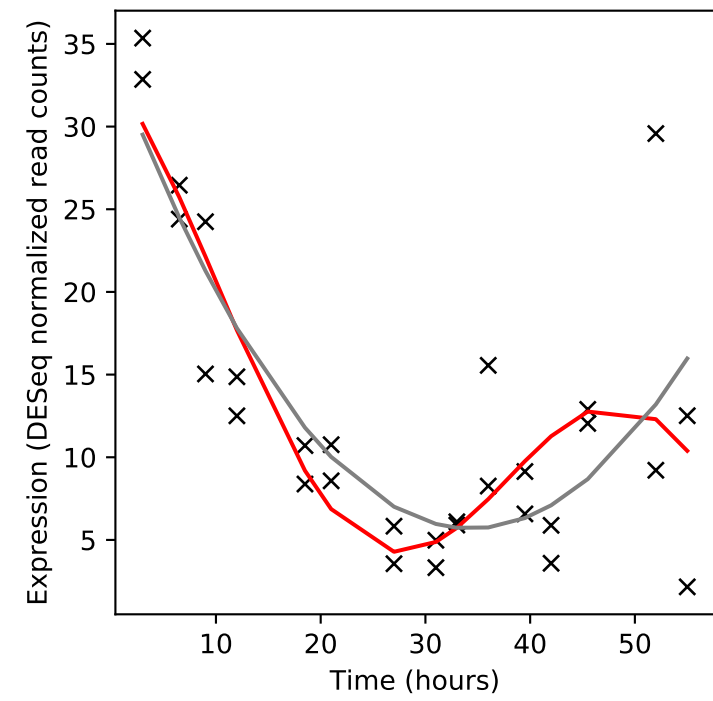
Rv3451/cut3



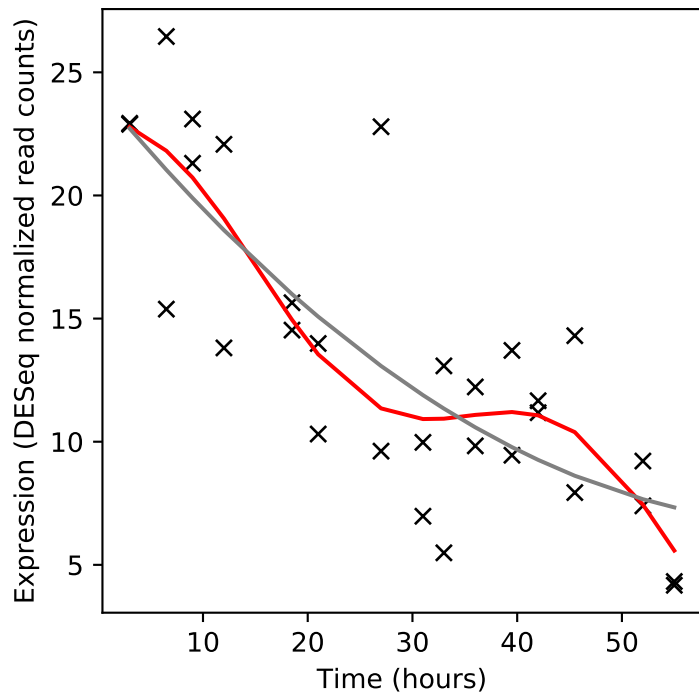
Rv3452/cut4



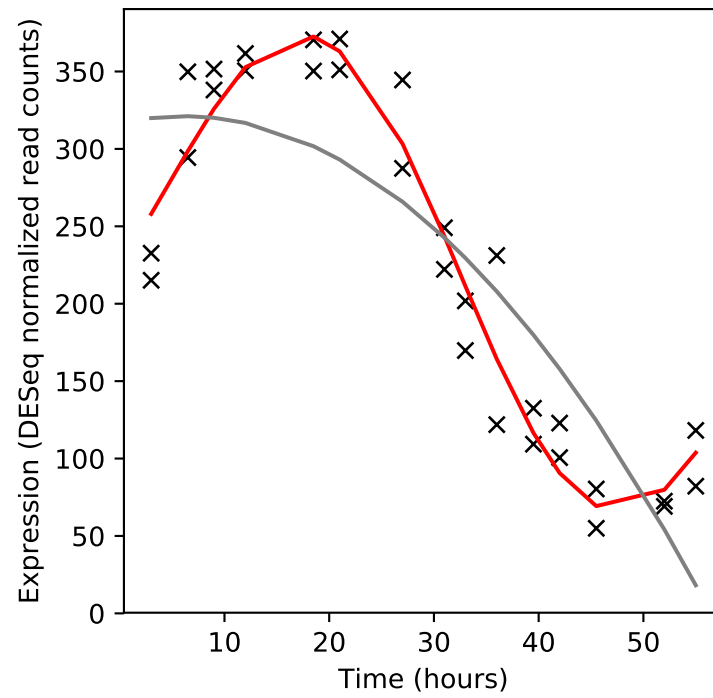
Rv3453/-



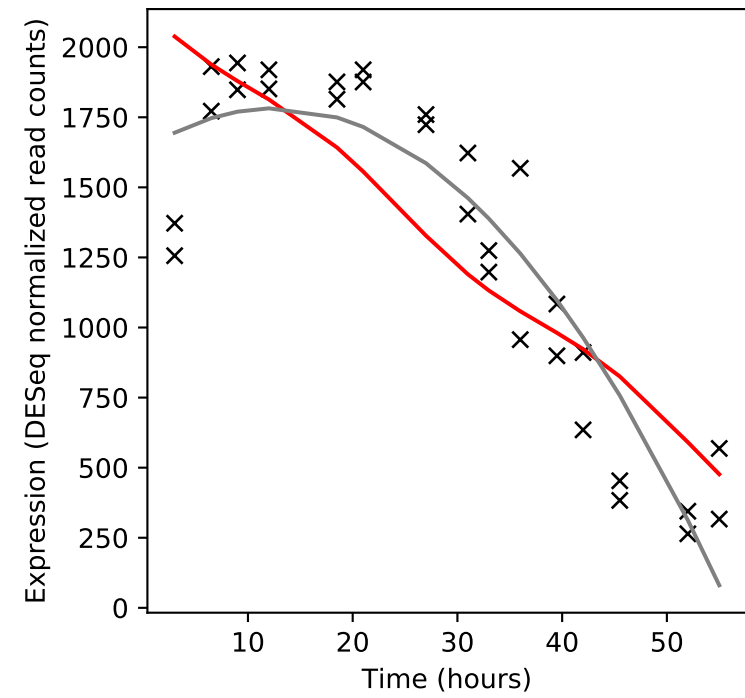
Rv3454/-



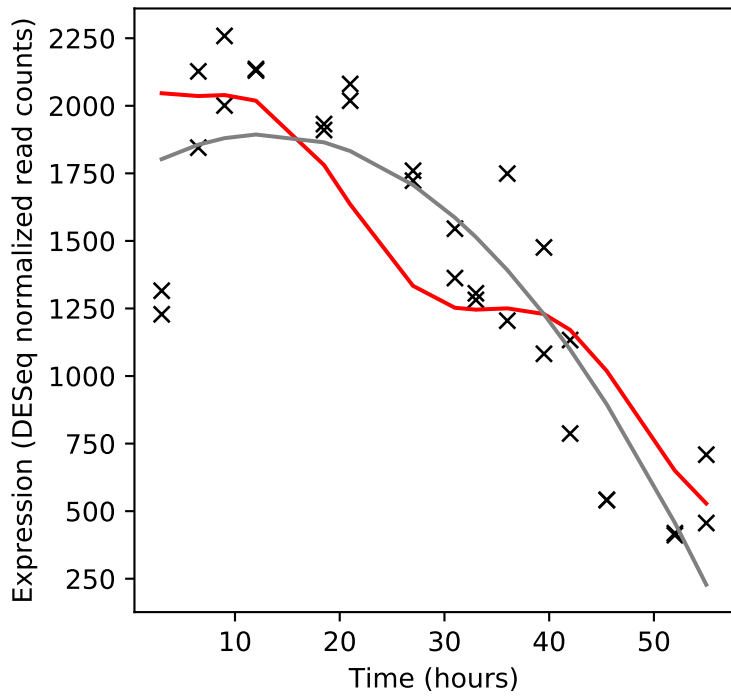
Rv3455c/truA



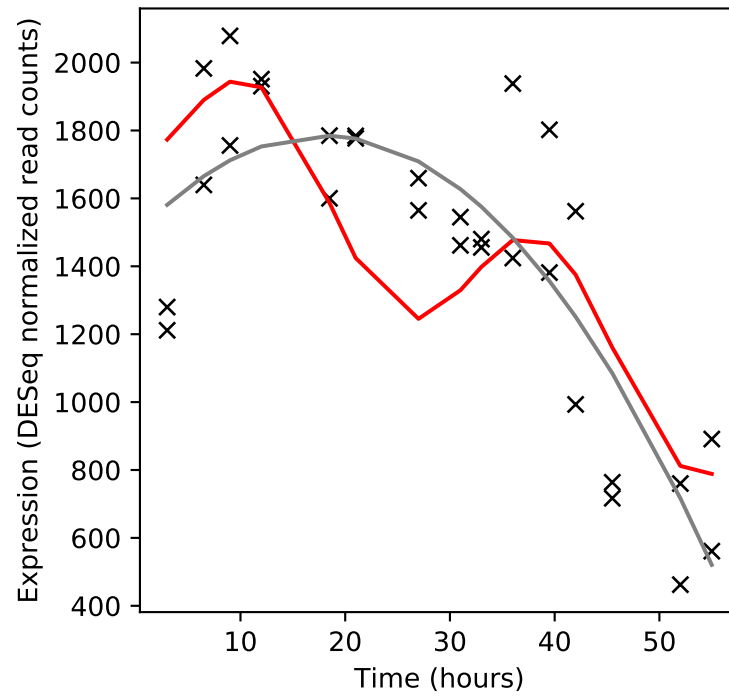
Rv3456c/rplQ



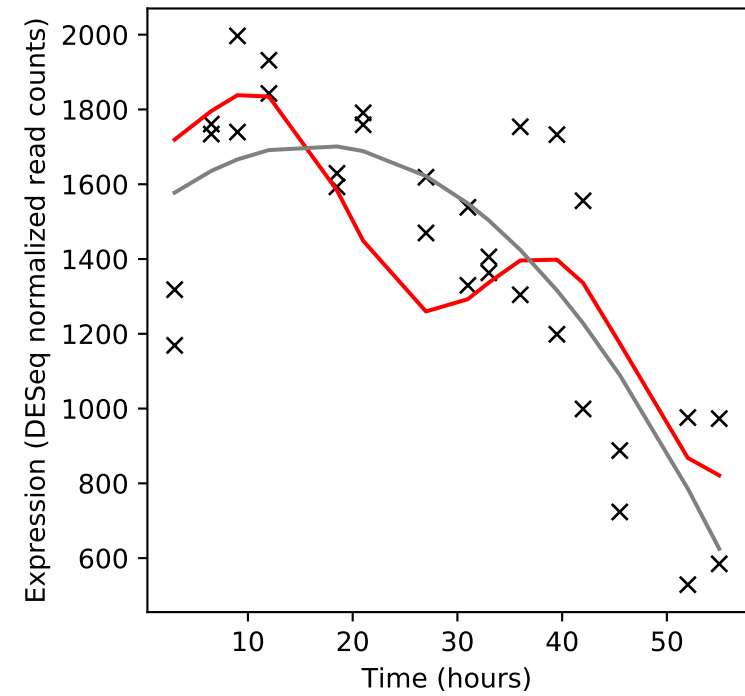
Rv3457c/rpoA



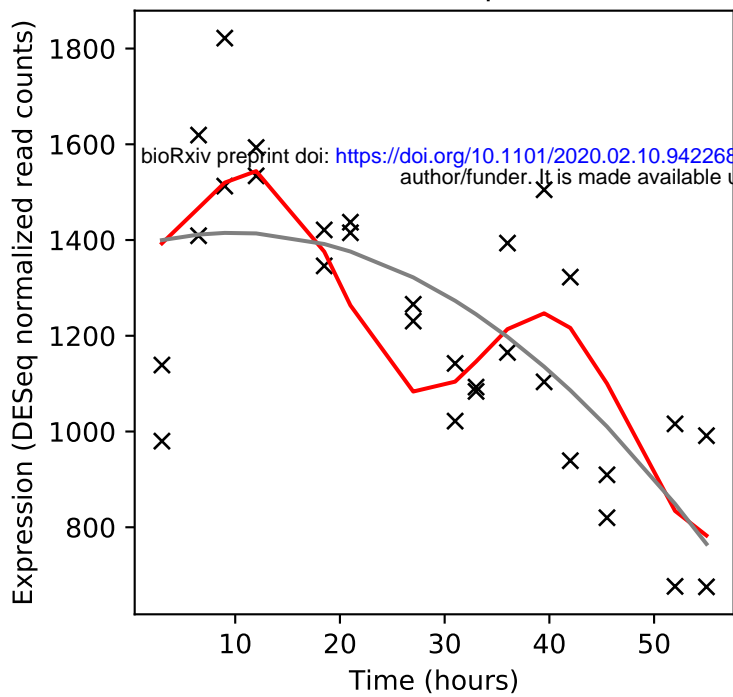
Rv3458c/rpsD



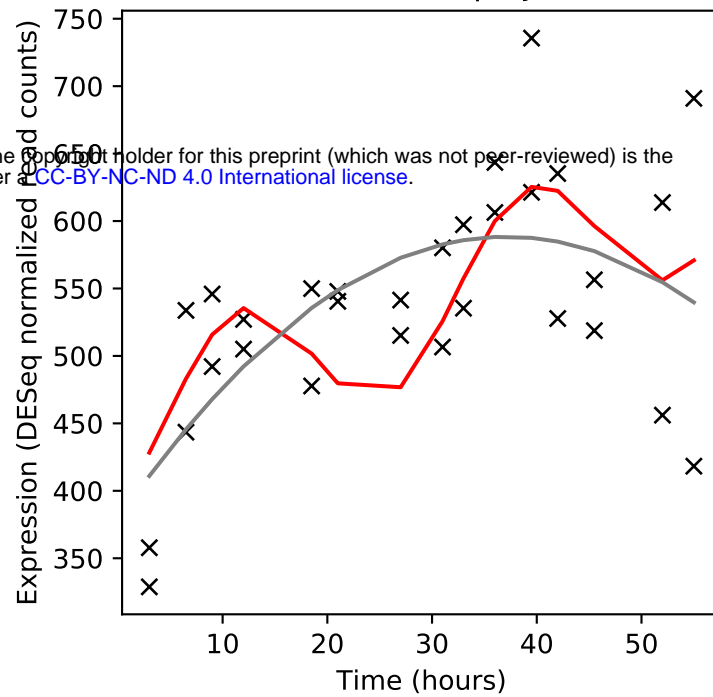
Rv3459c/rpsK



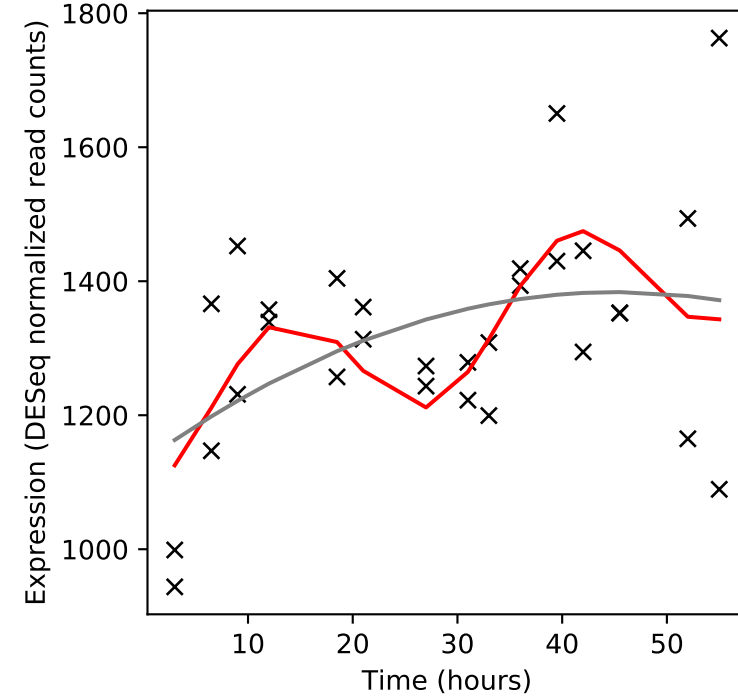
Rv3460c/rpsM



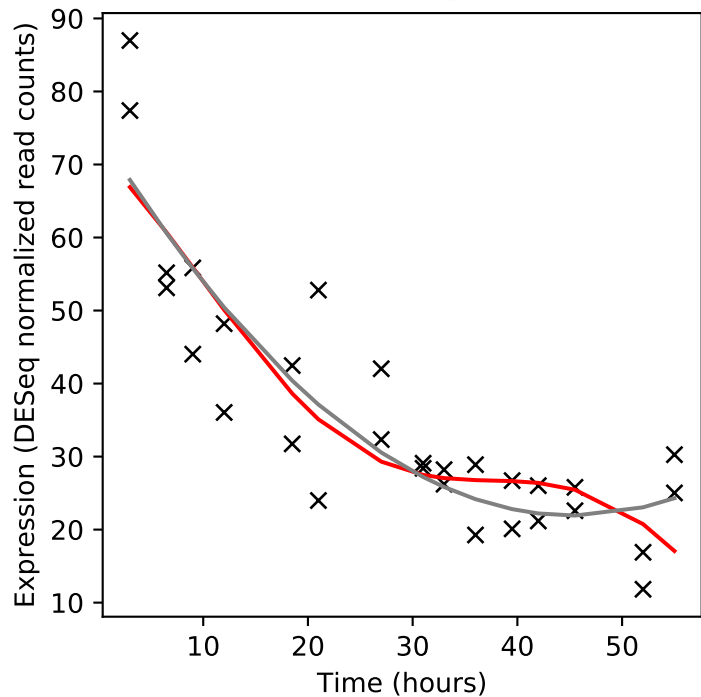
Rv3461c/rpmJ



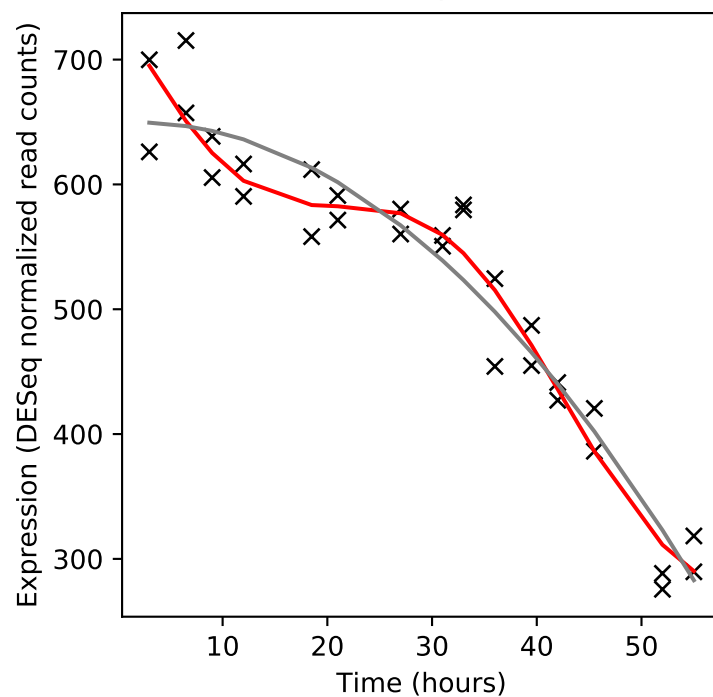
Rv3462c/infA



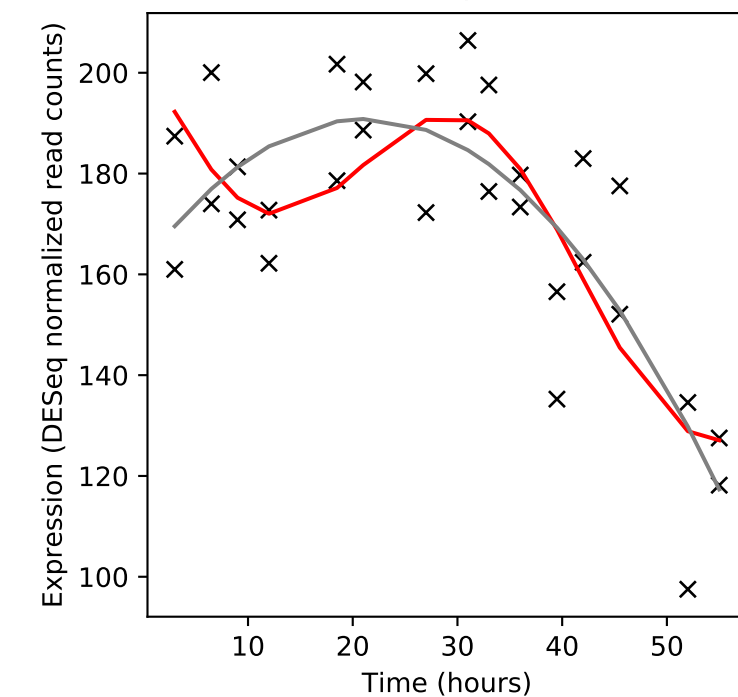
Rv3463/-



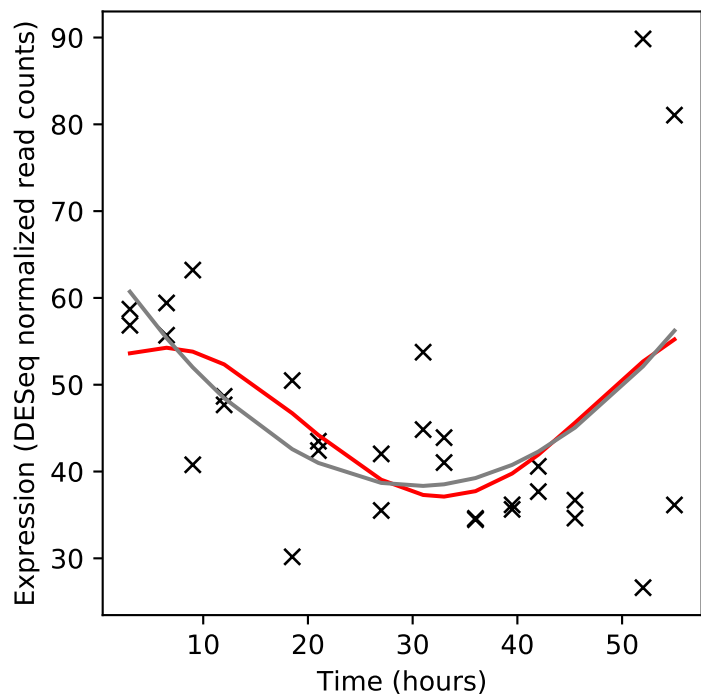
Rv3464/rmlB



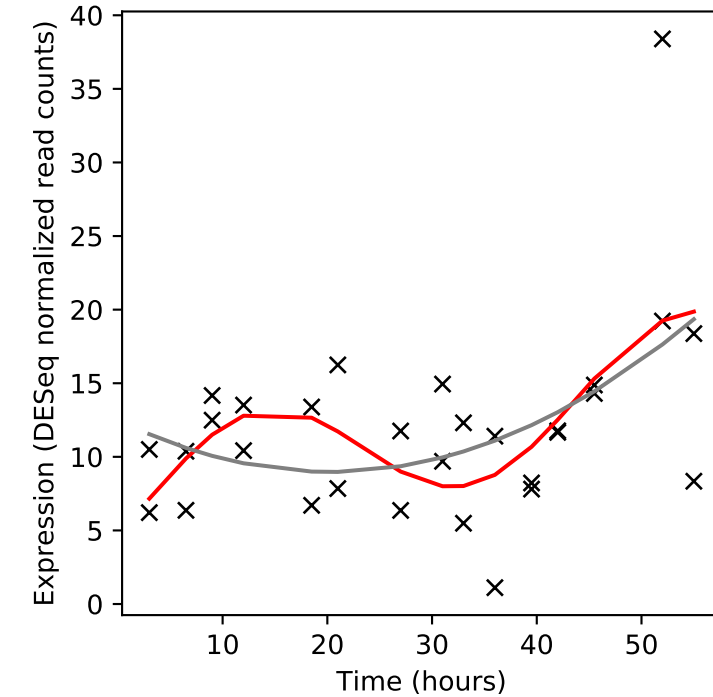
Rv3465/rmlC



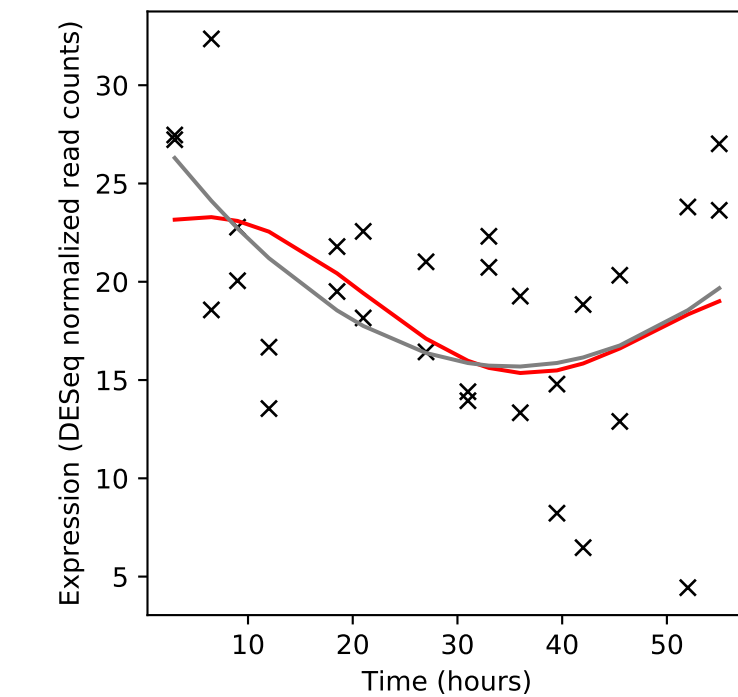
Rv3466/-



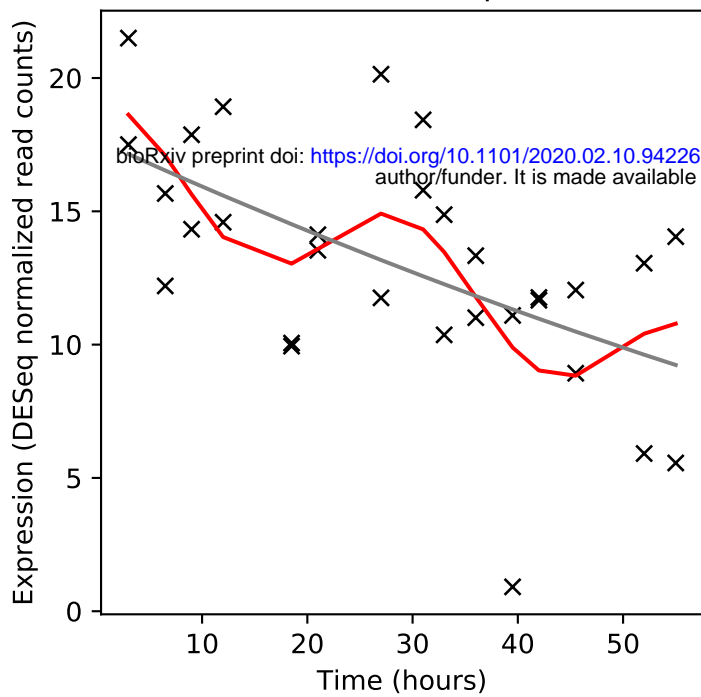
Rv3467/-



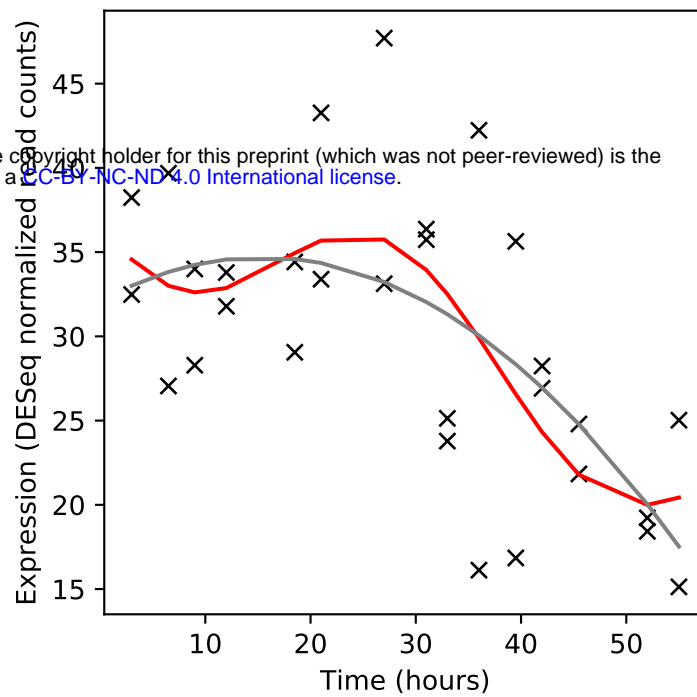
Rv3468c/-



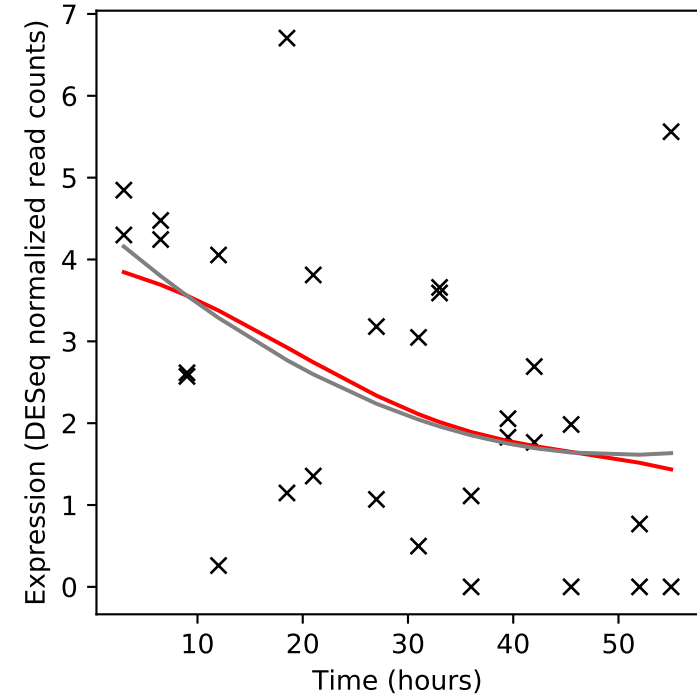
Rv3469c/mhpE



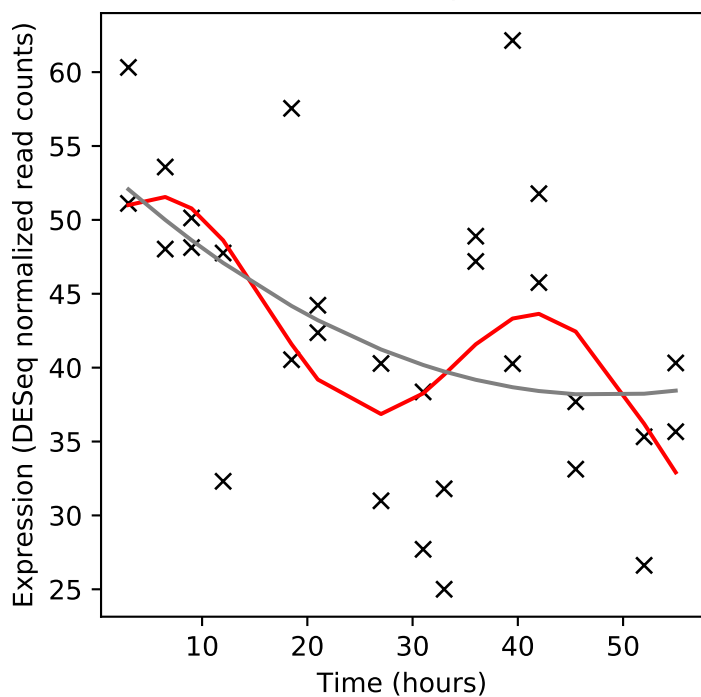
Rv3470c/ilvB2



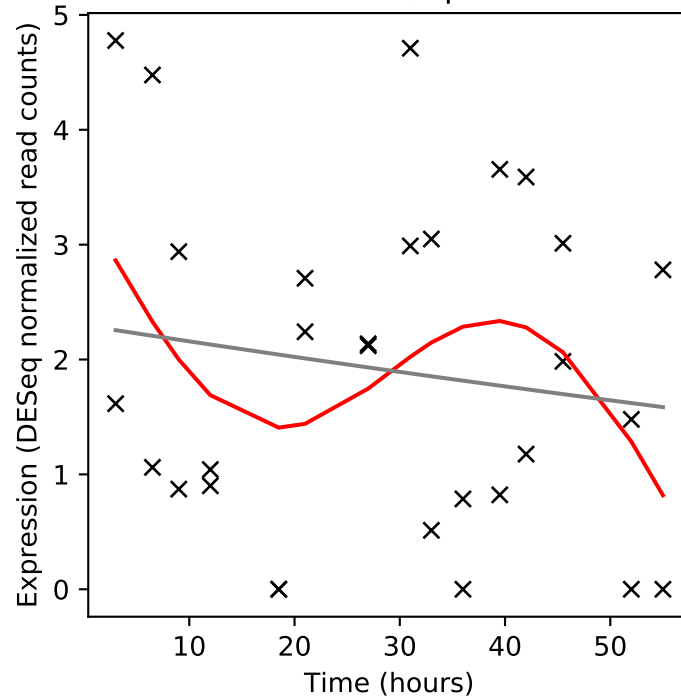
Rv3471c/-



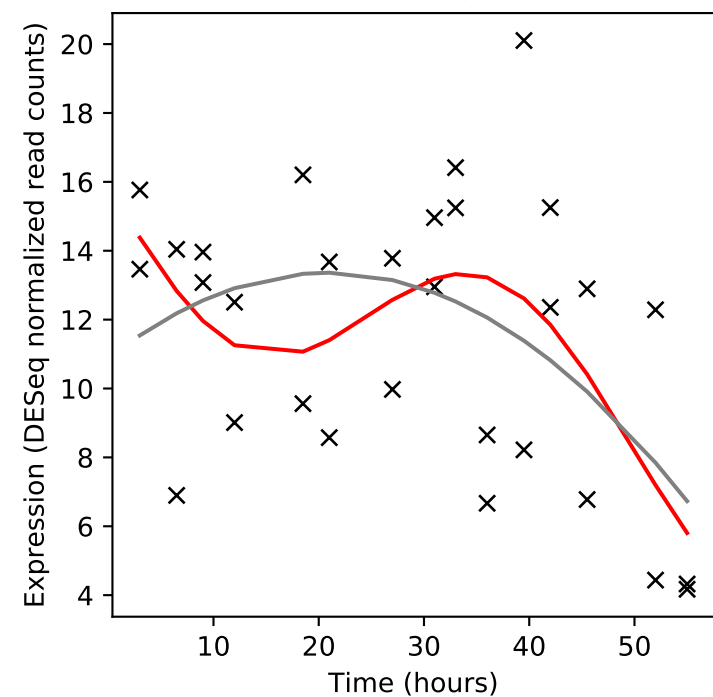
Rv3472/-



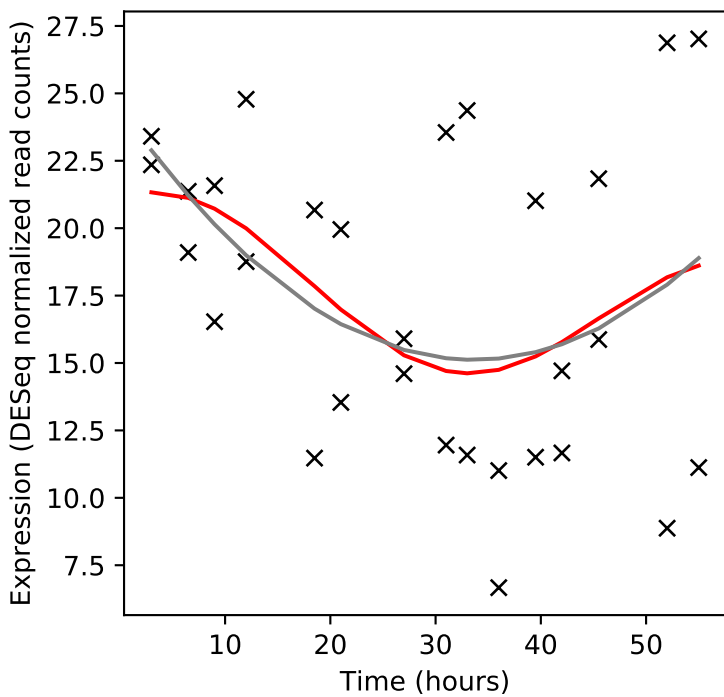
Rv3473c/bpoA



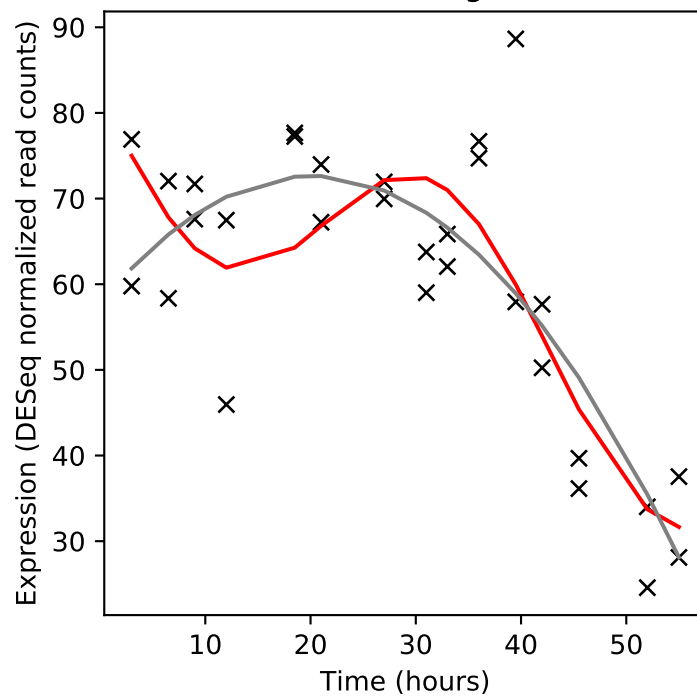
Rv3474/-



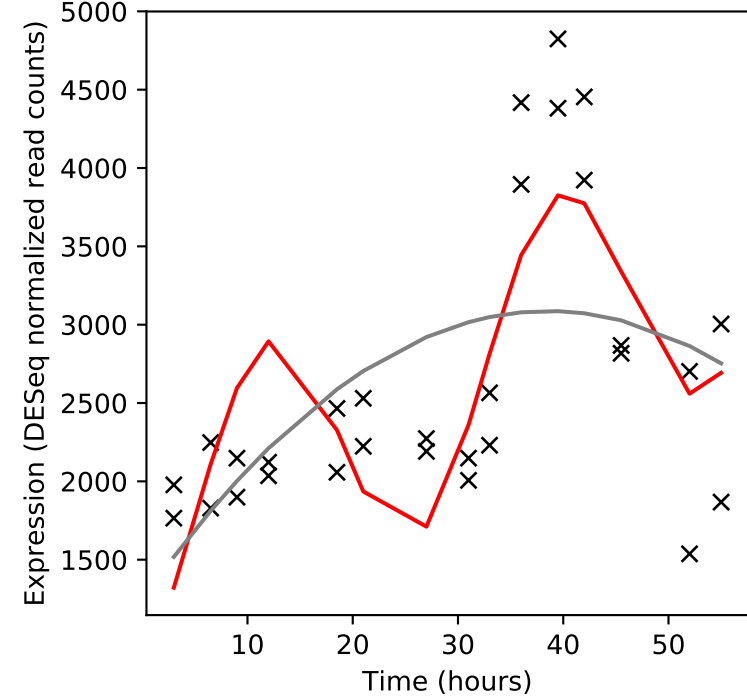
Rv3475/-



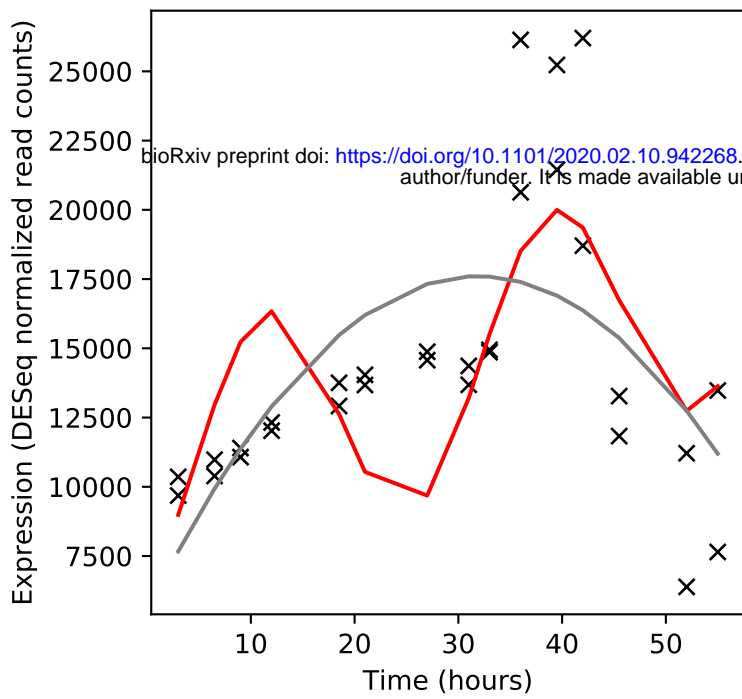
Rv3476c/kgtP



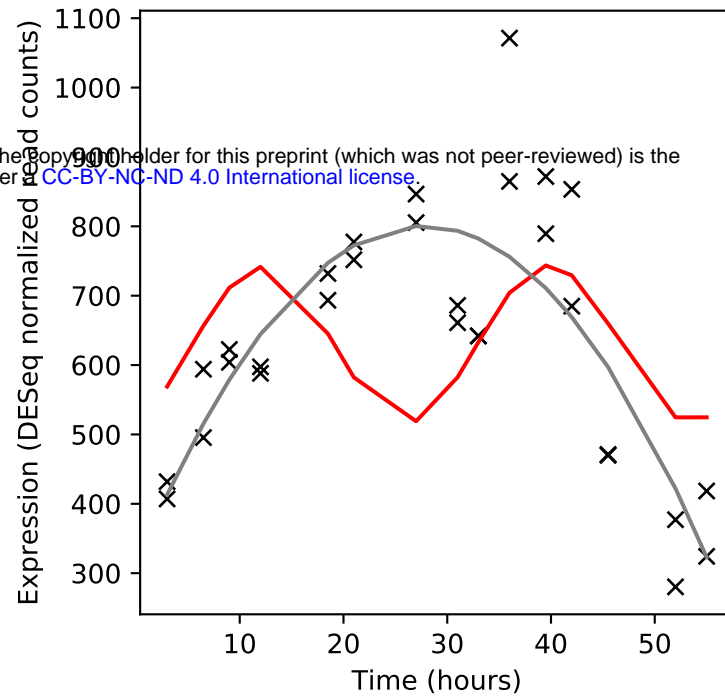
Rv3477/PE31



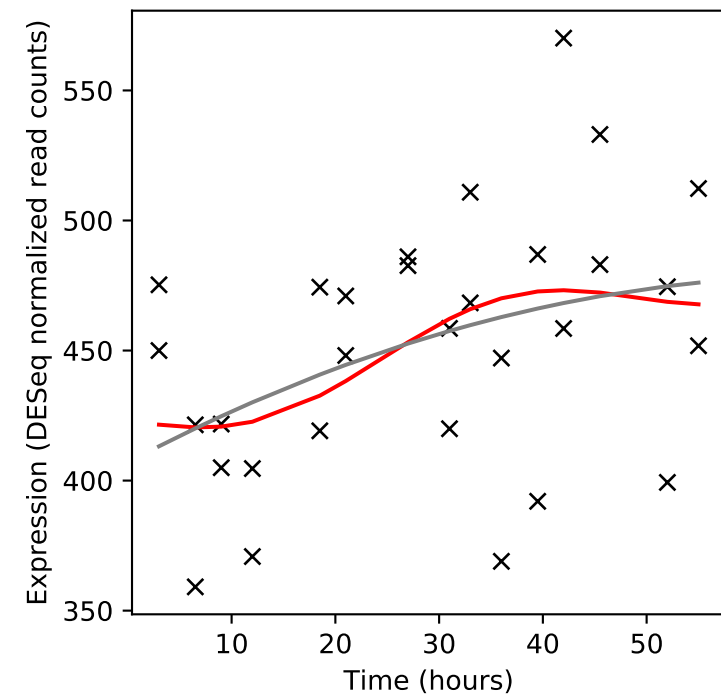
Rv3478/PPE60



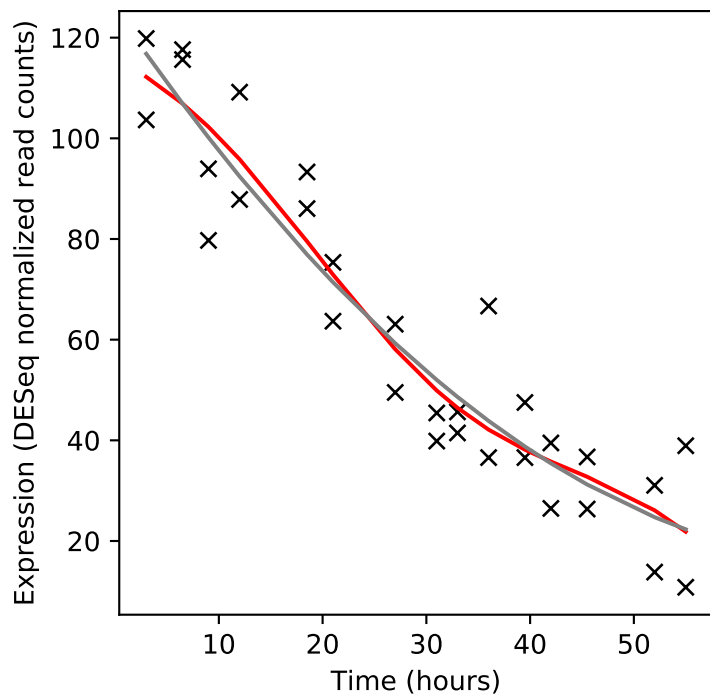
Rv3479/-



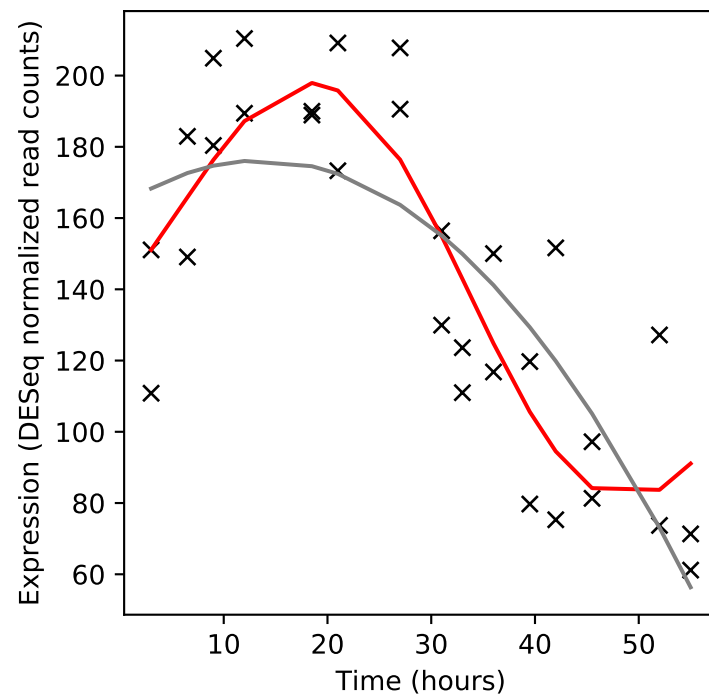
Rv3480c/-



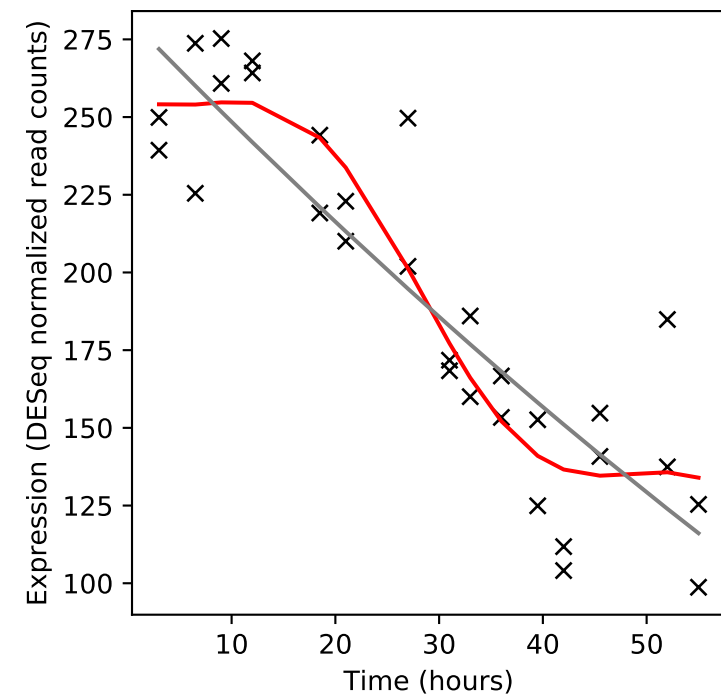
Rv3481c/-



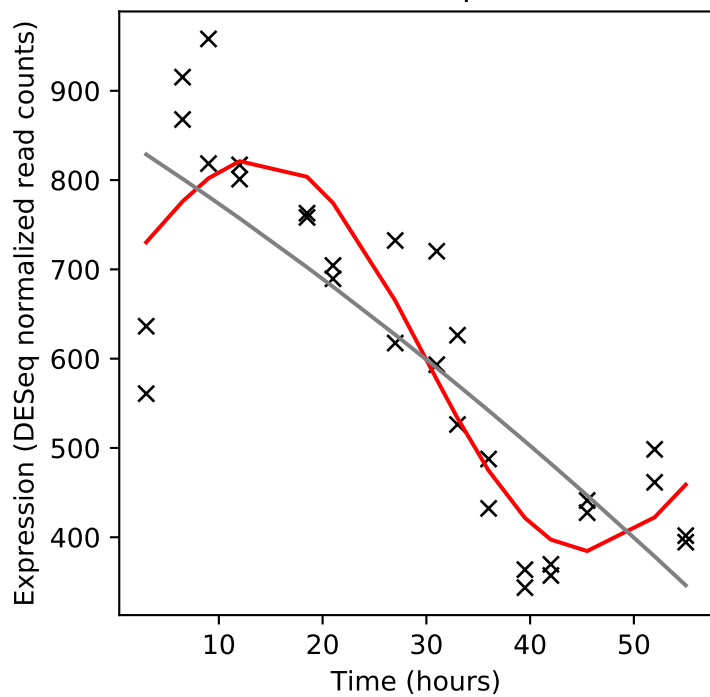
Rv3482c/-



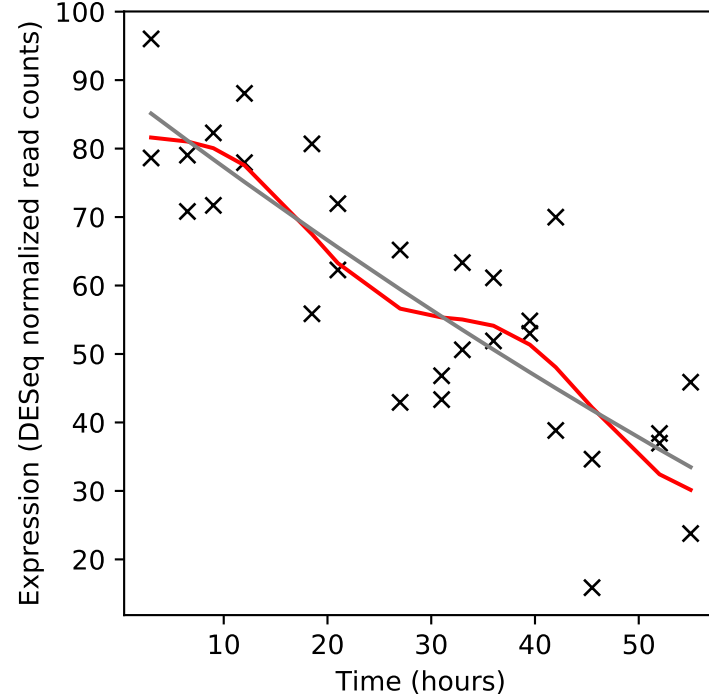
Rv3483c/-



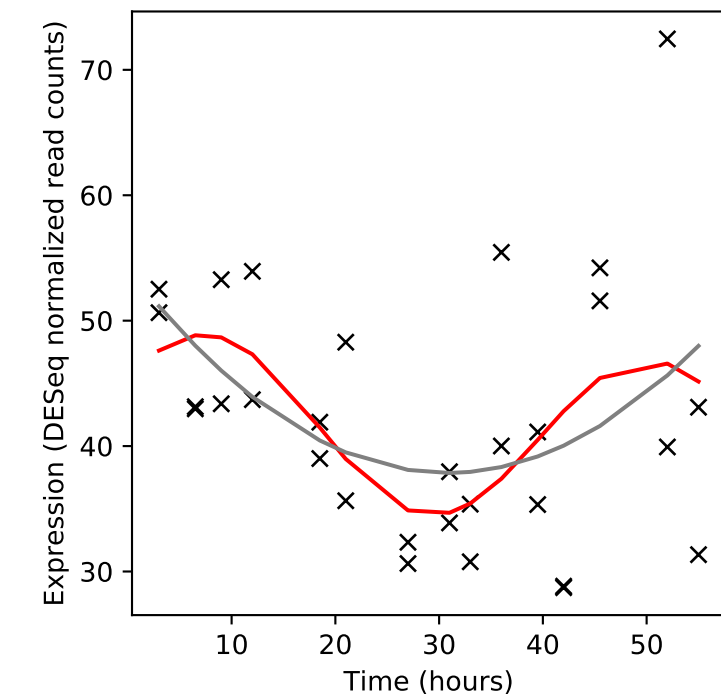
Rv3484/cpsA



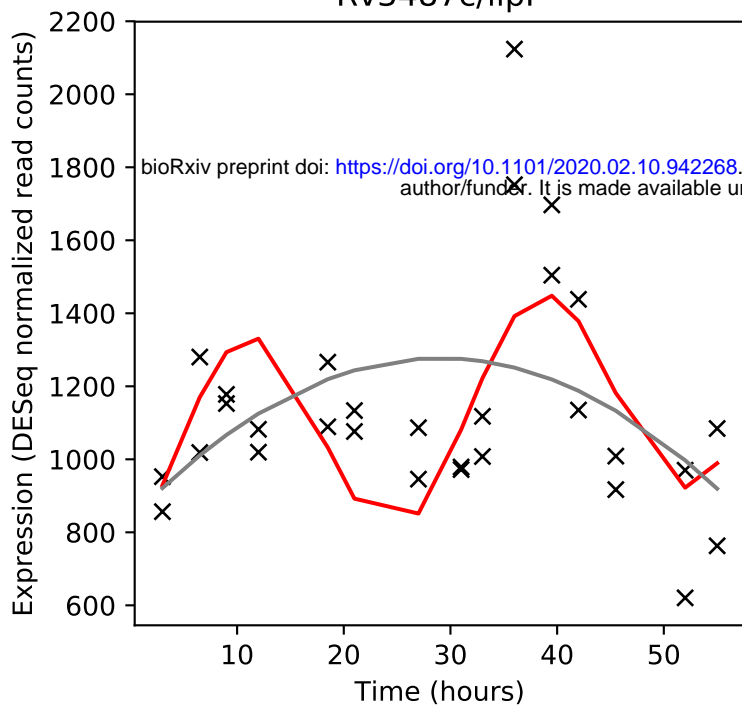
Rv3485c/-



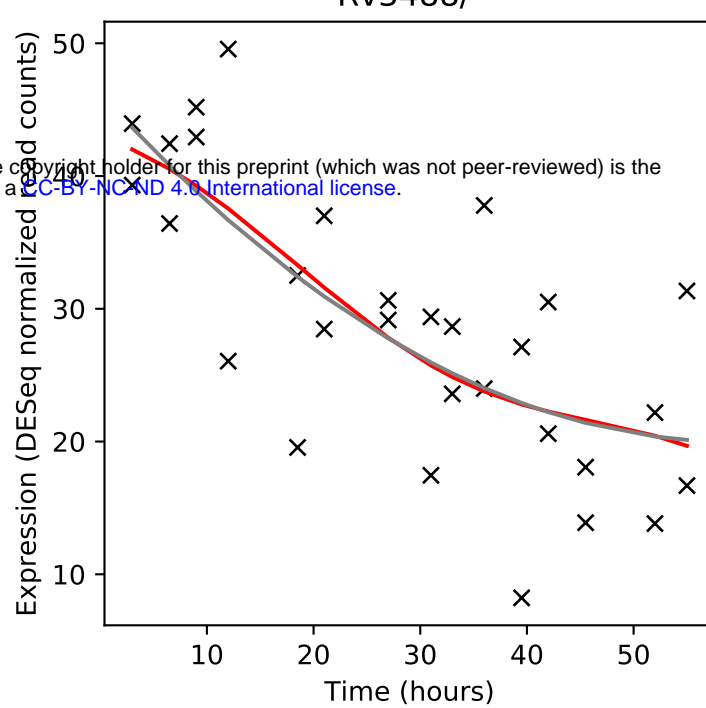
Rv3486/-



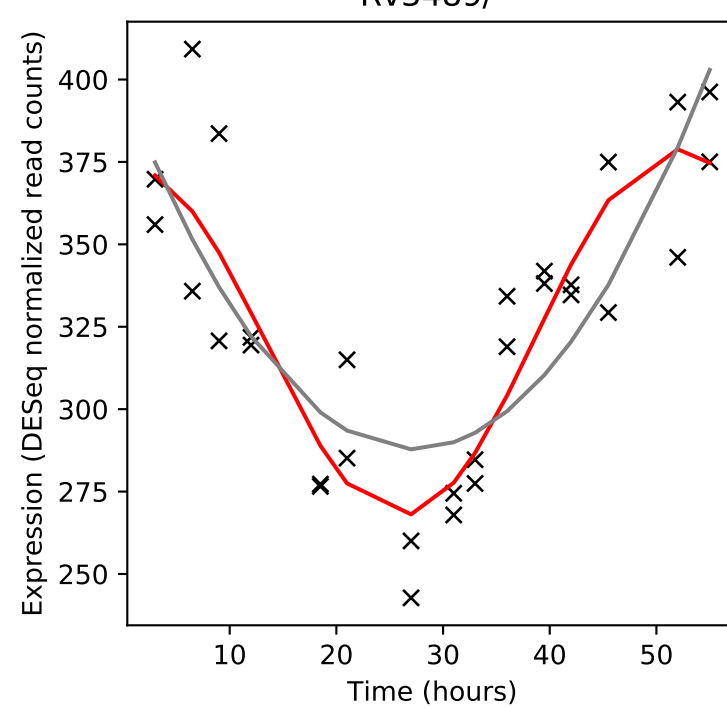
Rv3487c/lipF



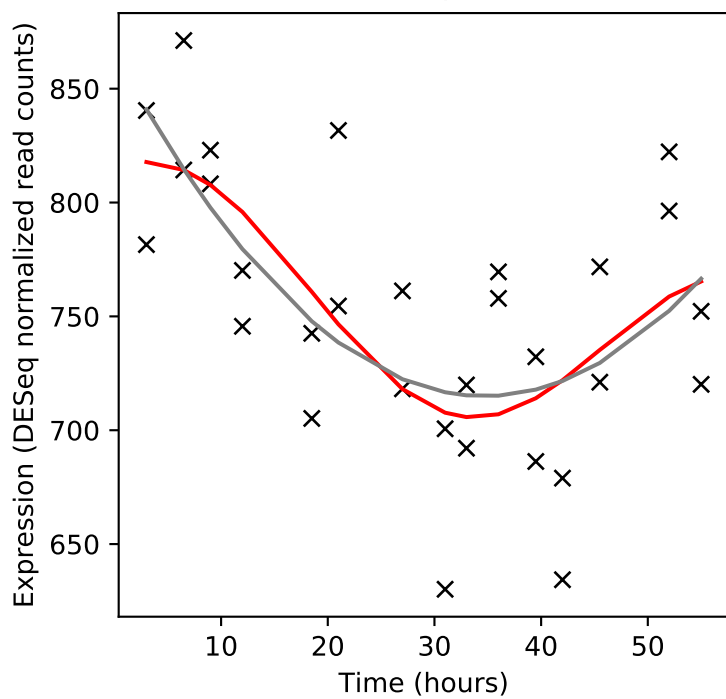
Rv3488/-



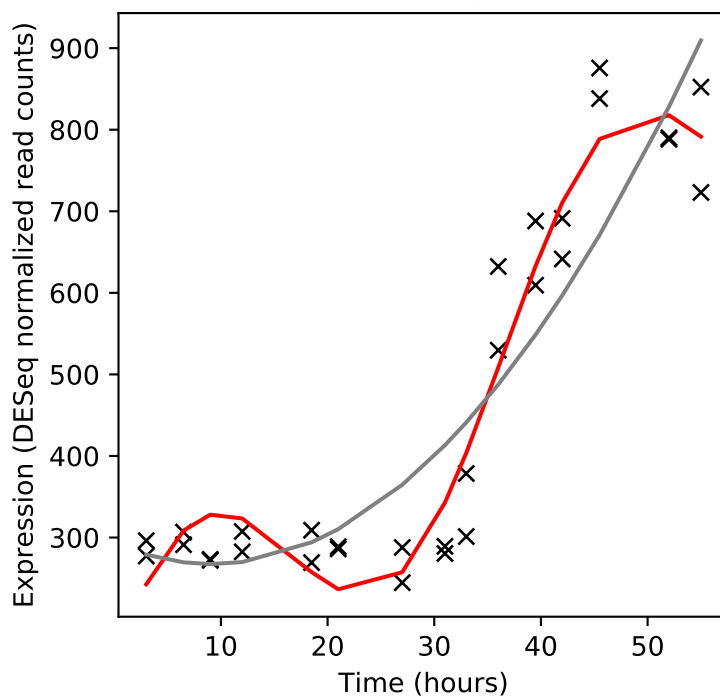
Rv3489/-



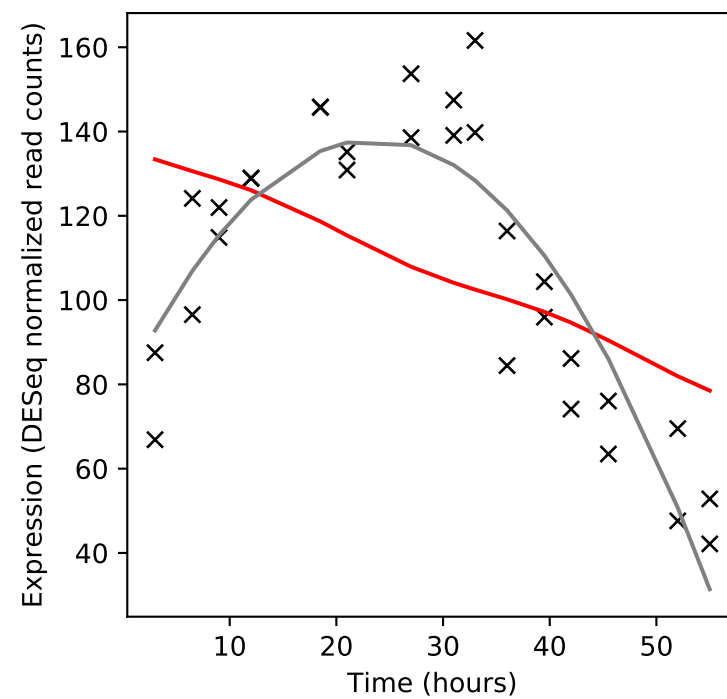
Rv3490/otsA



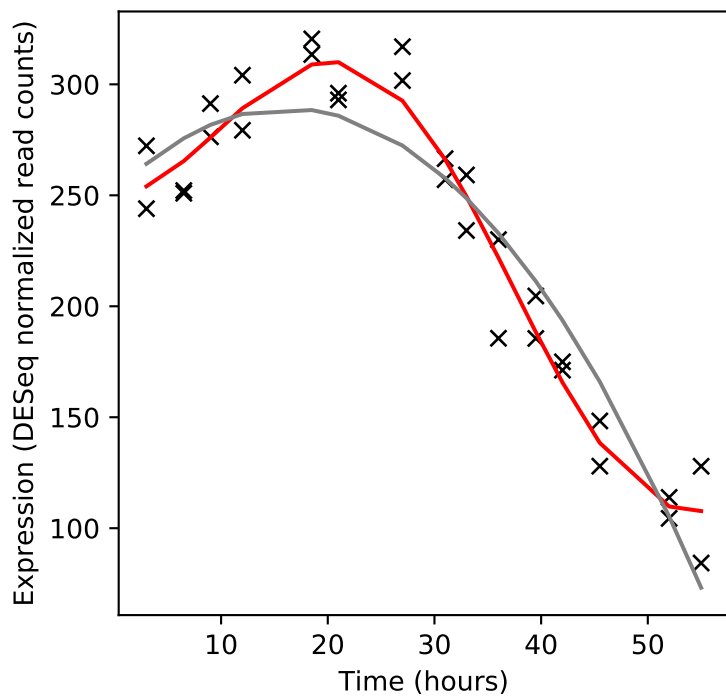
Rv3491/-



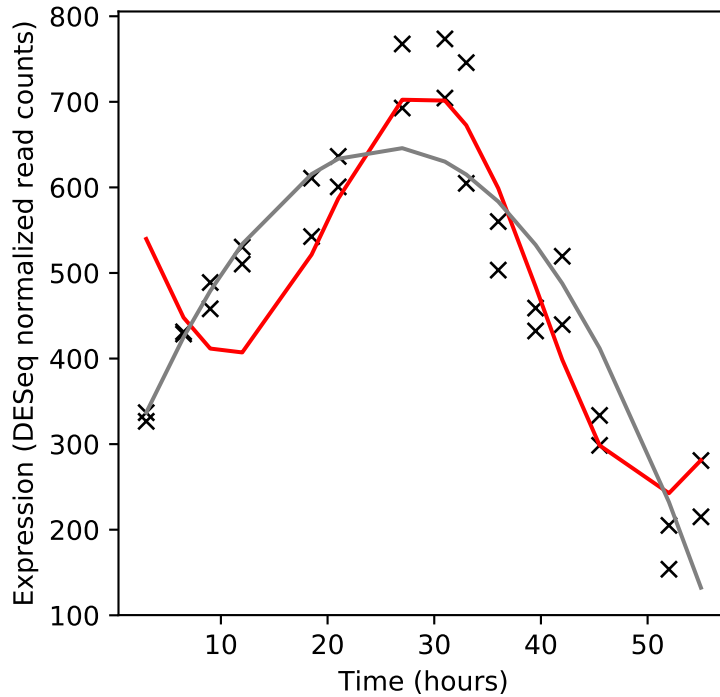
Rv3492c/-



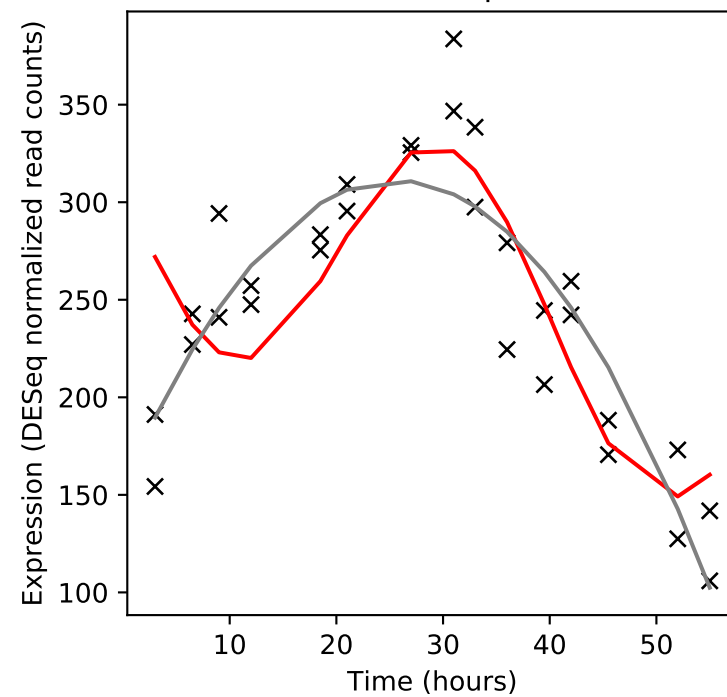
Rv3493c/-



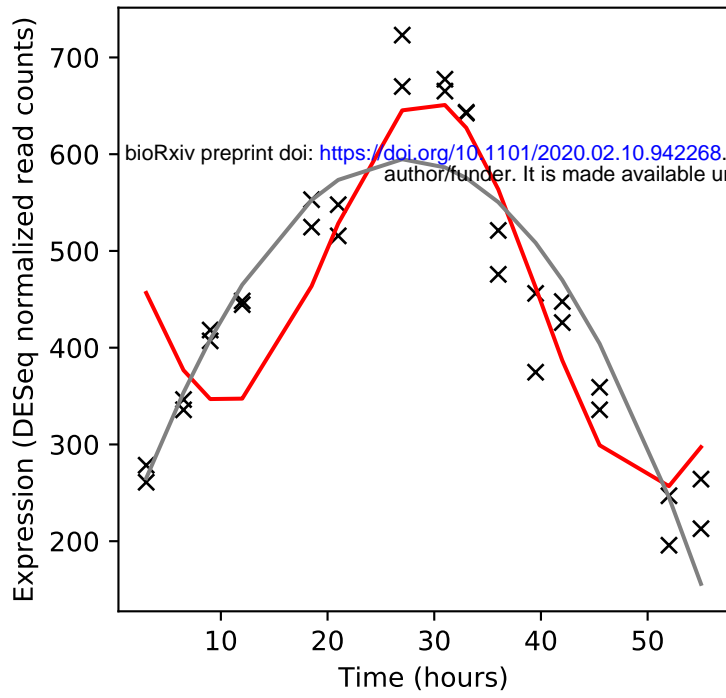
Rv3494c/mce4F



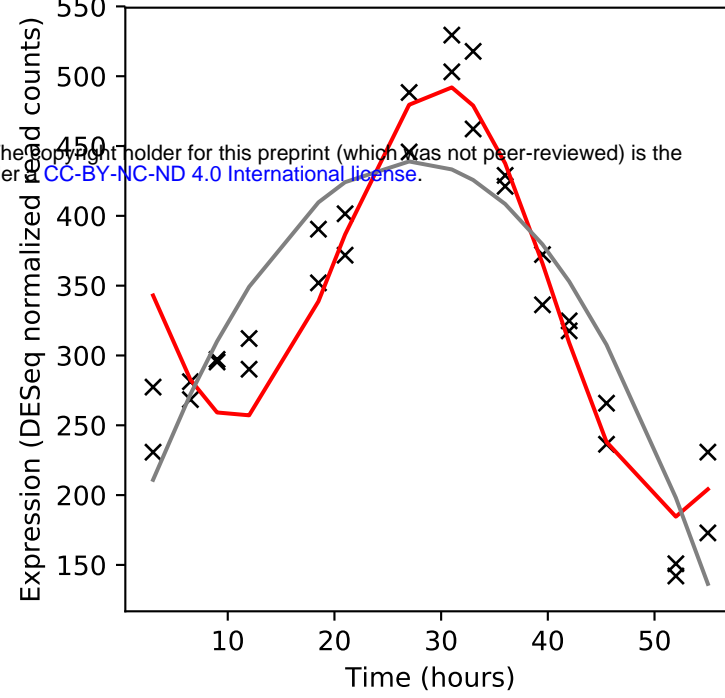
Rv3495c/lprN



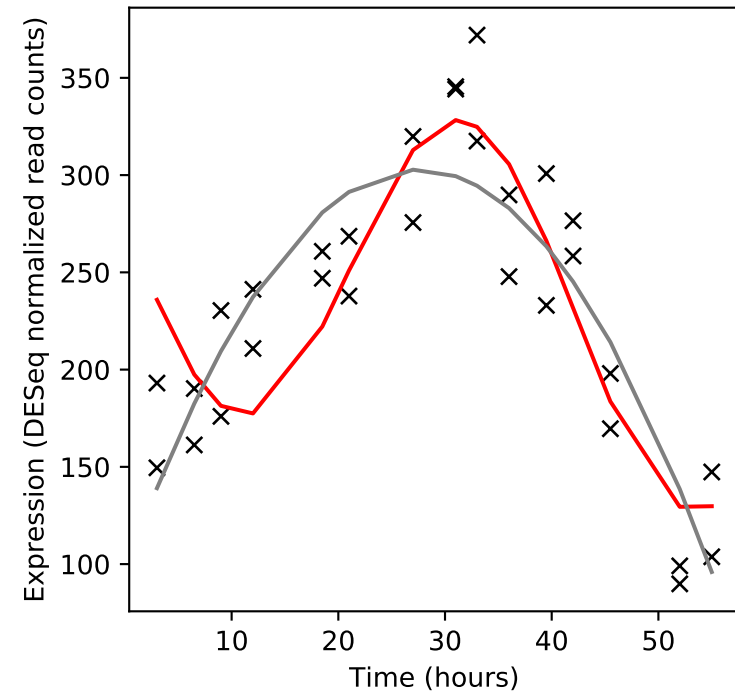
Rv3496c/mce4D



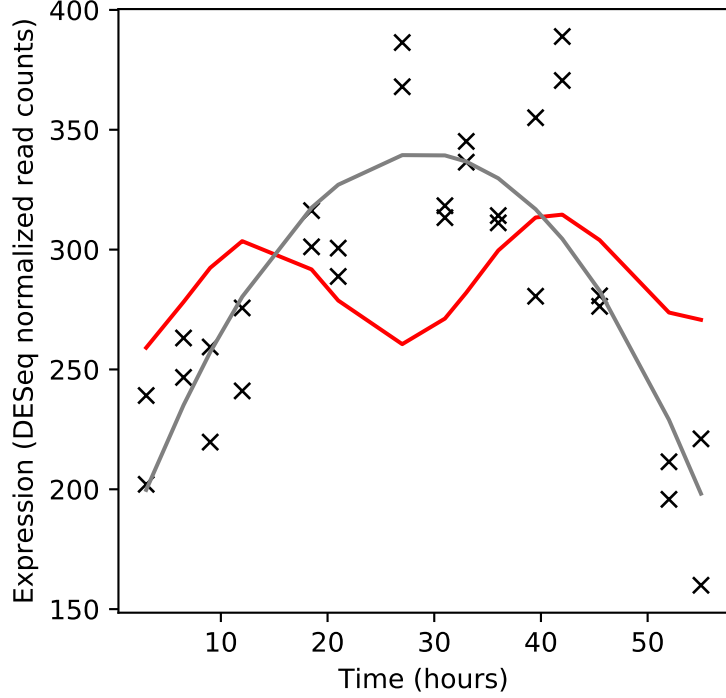
Rv3497c/mce4C



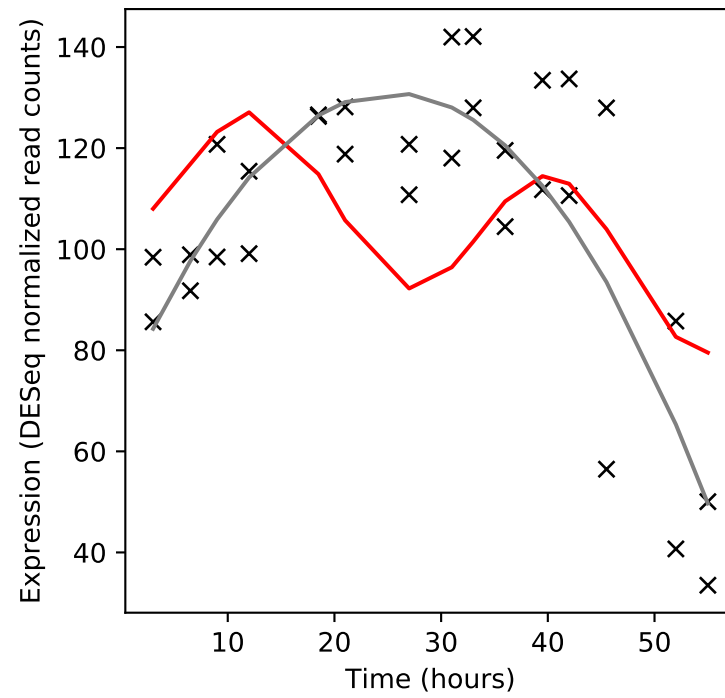
Rv3498c/mce4B



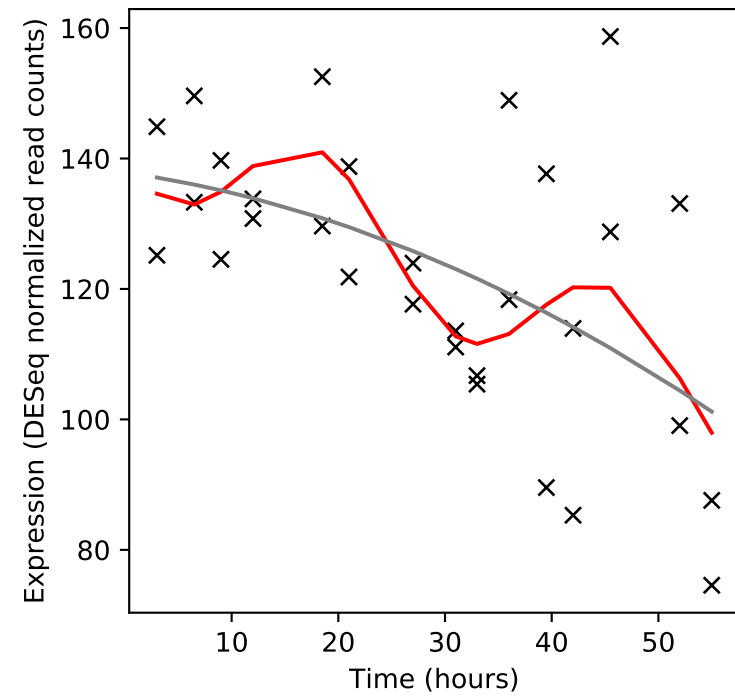
Rv3499c/mce4A



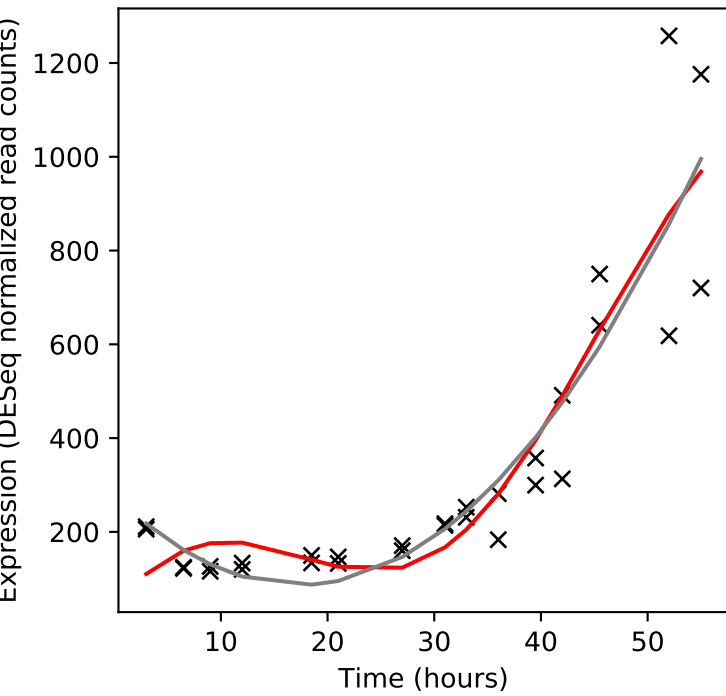
Rv3500c/yrbE4B



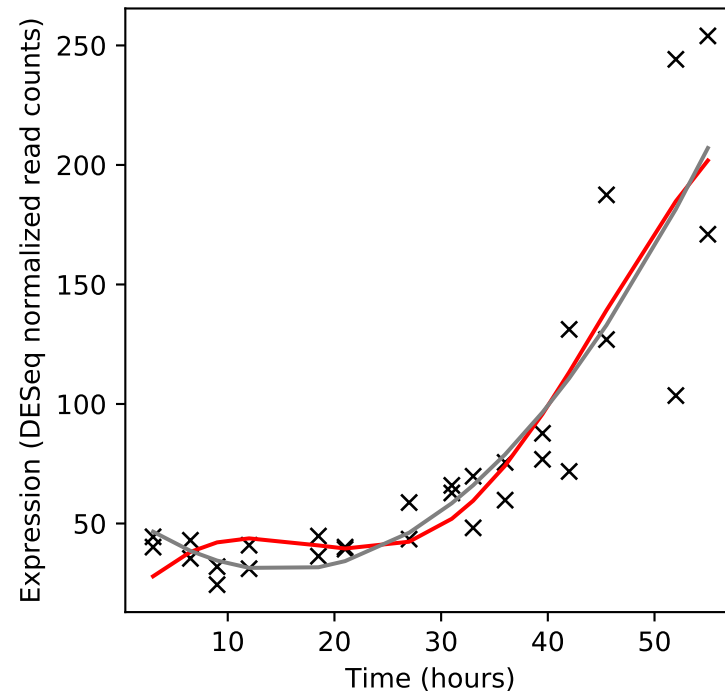
Rv3501c/yrbE4A



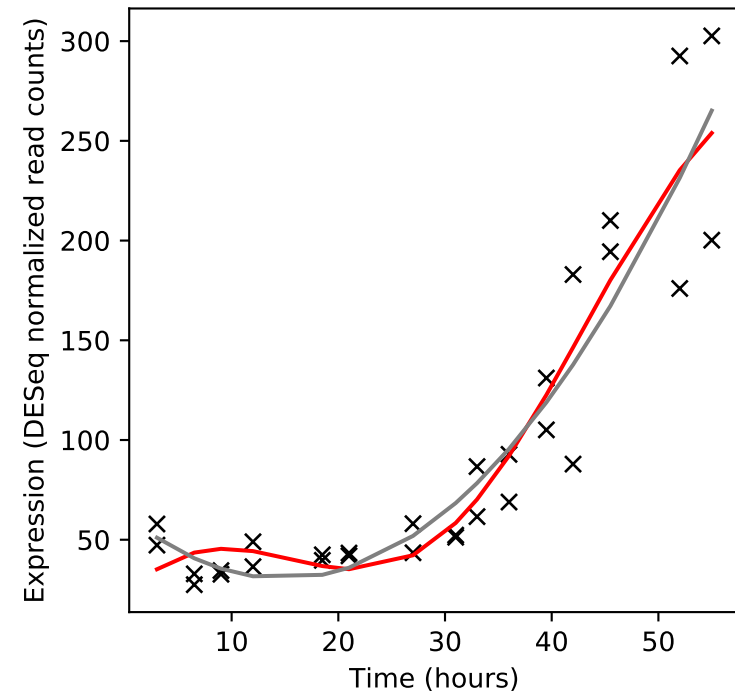
Rv3502c/-



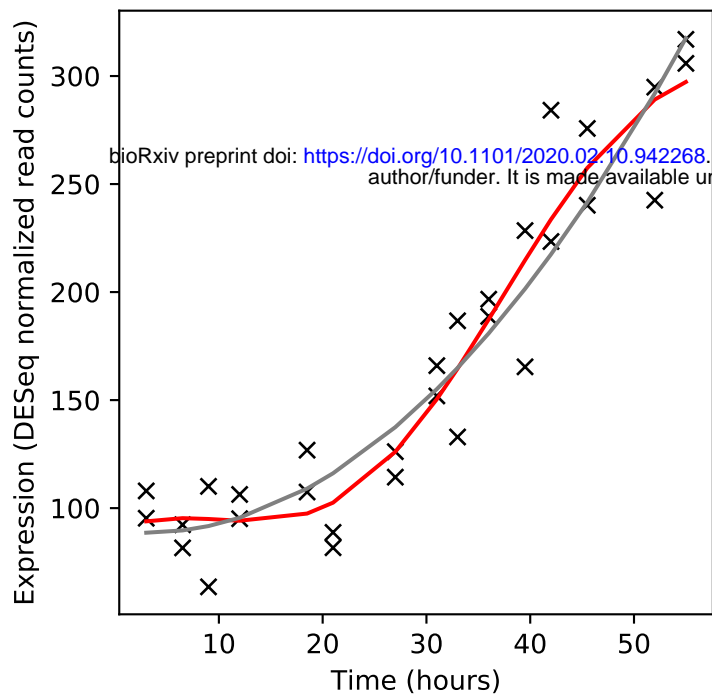
Rv3503c/fdxD



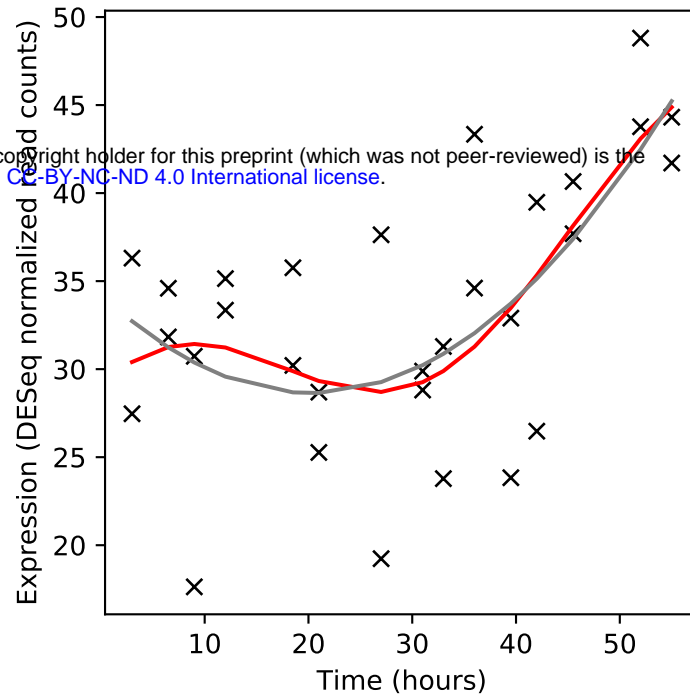
Rv3504/fadE26



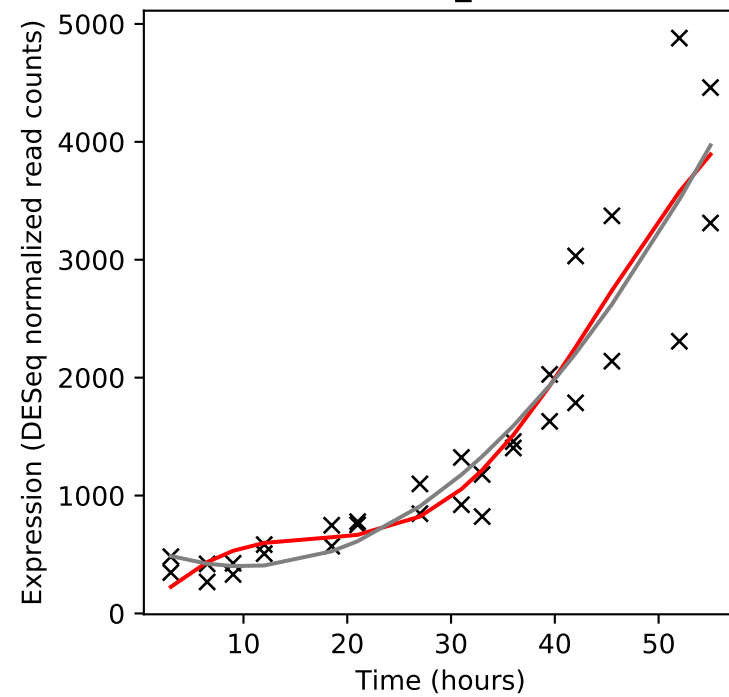
Rv3505/fadE27



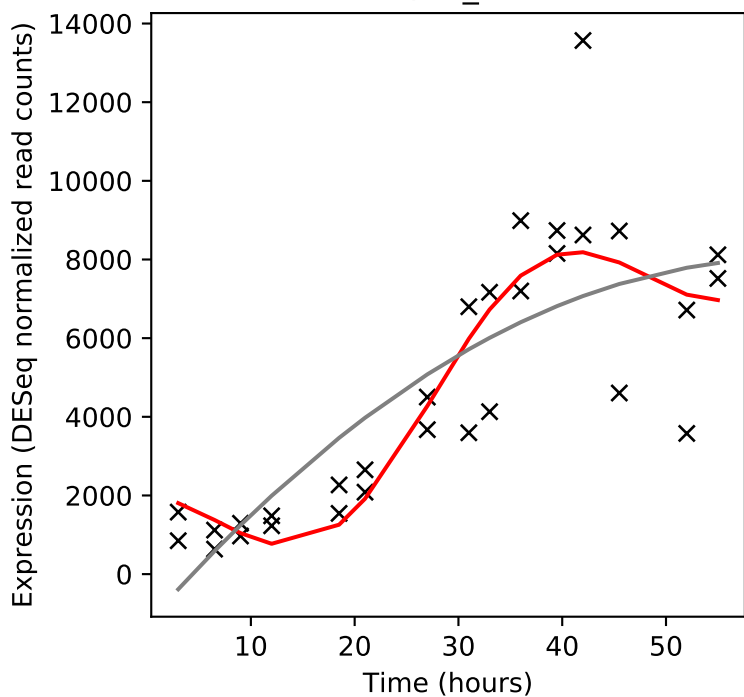
Rv3506/fadD17



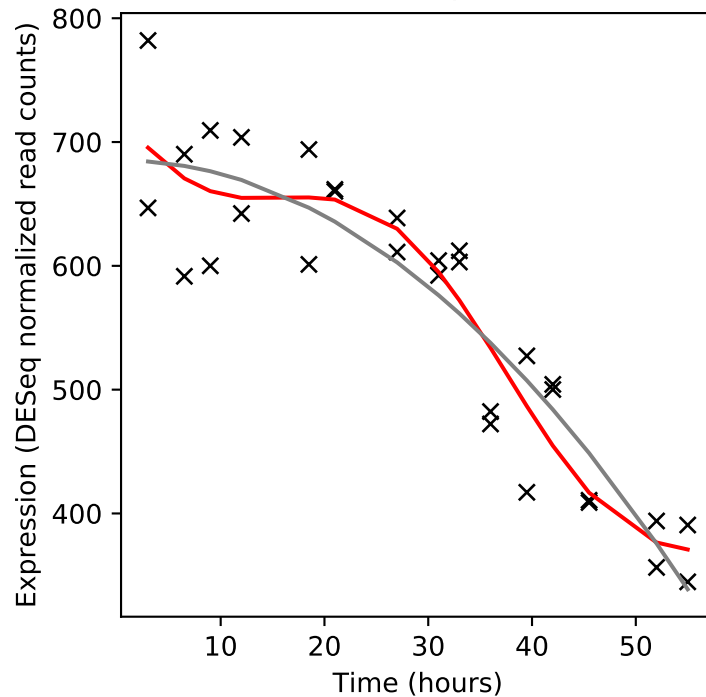
Rv3507/PE_PGRS53



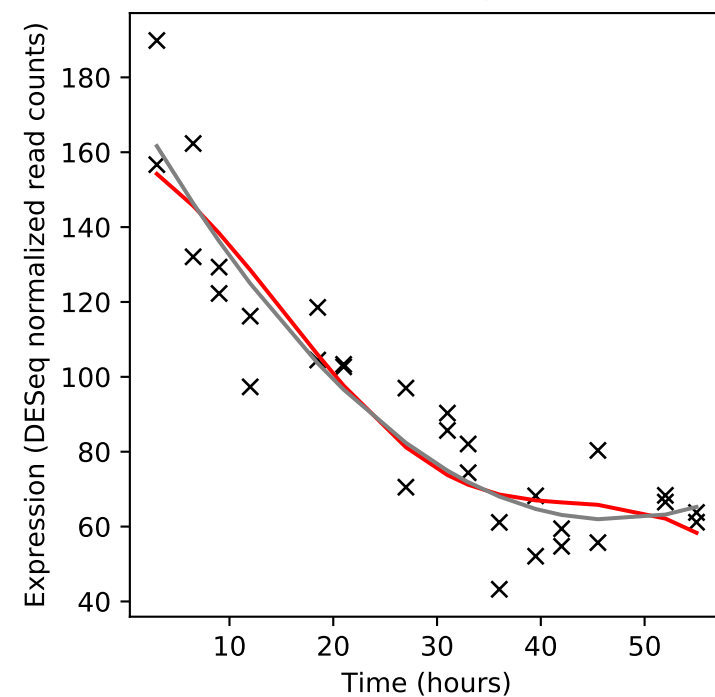
Rv3508/PE_PGRS54



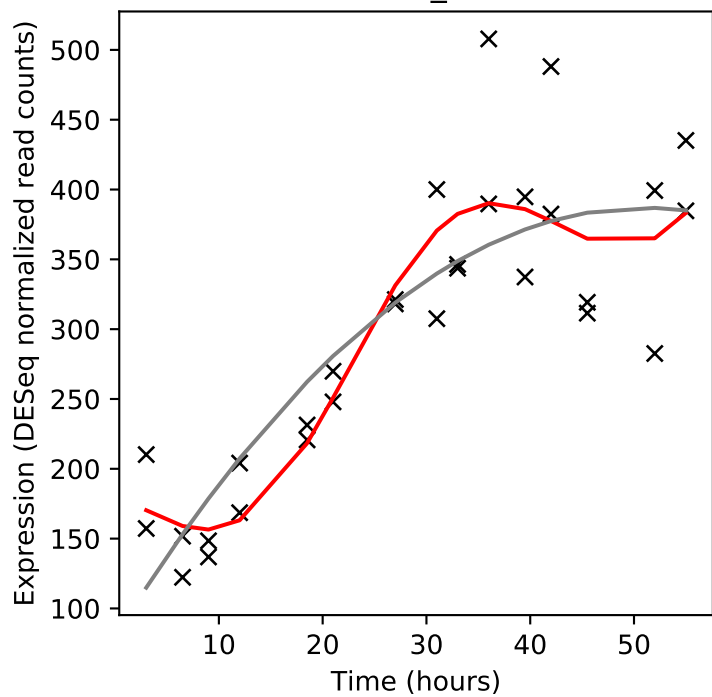
Rv3509c/ilvX



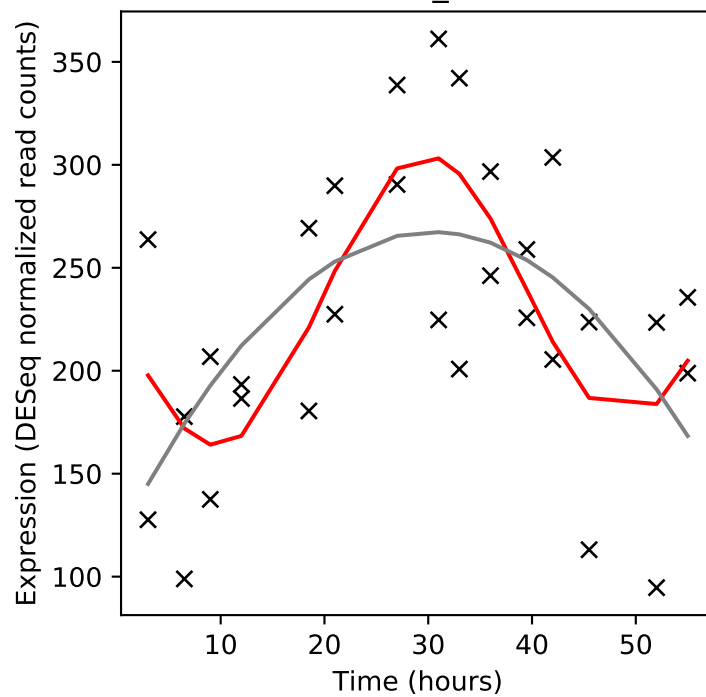
Rv3510c/-



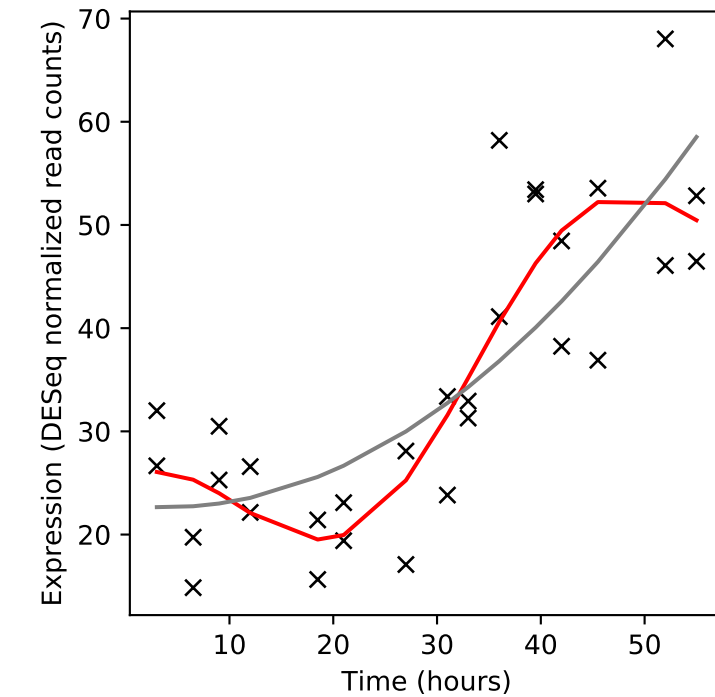
Rv3511/PE_PGRS55



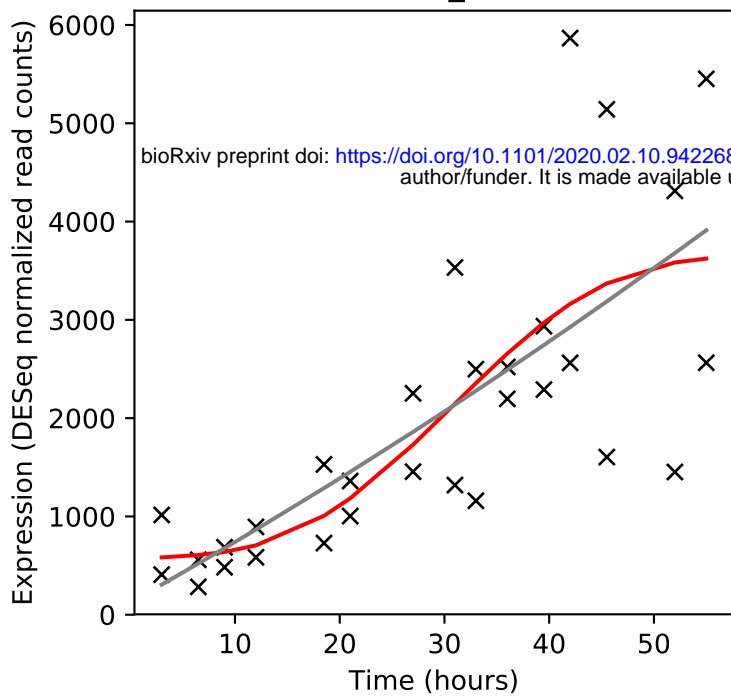
Rv3512/PE_PGRS56



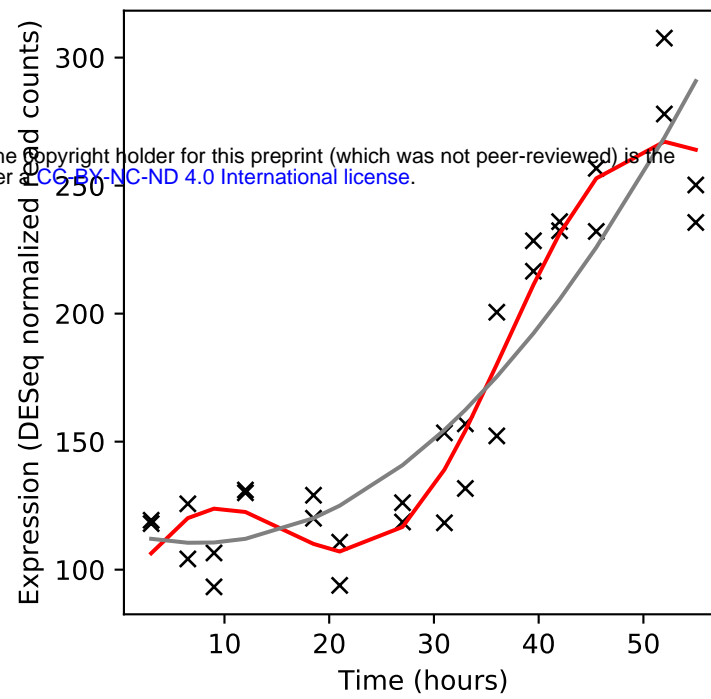
Rv3513c/fadD18



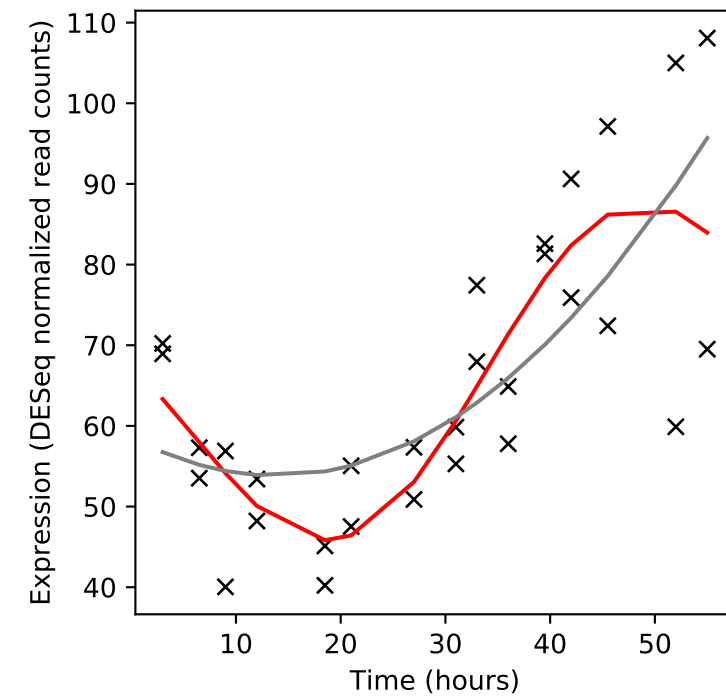
Rv3514/PE_PGRS57



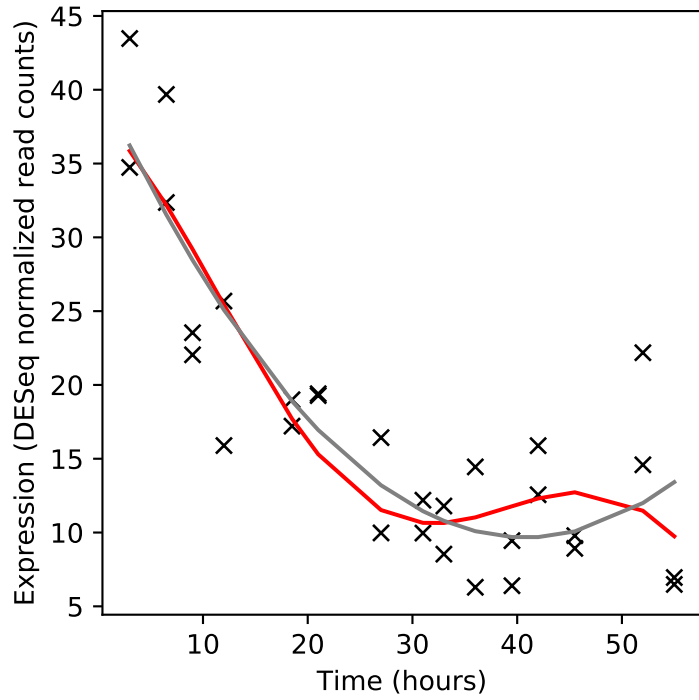
Rv3515c/fadD19



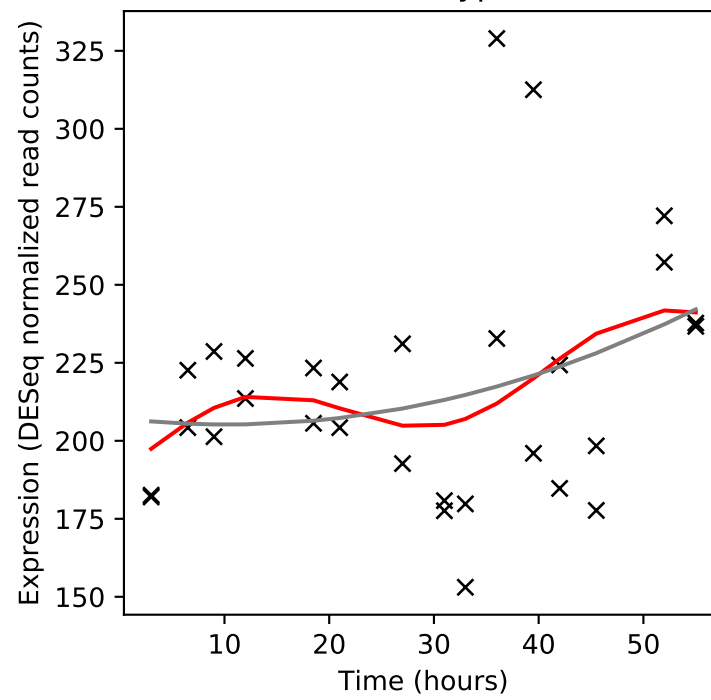
Rv3516/echA19



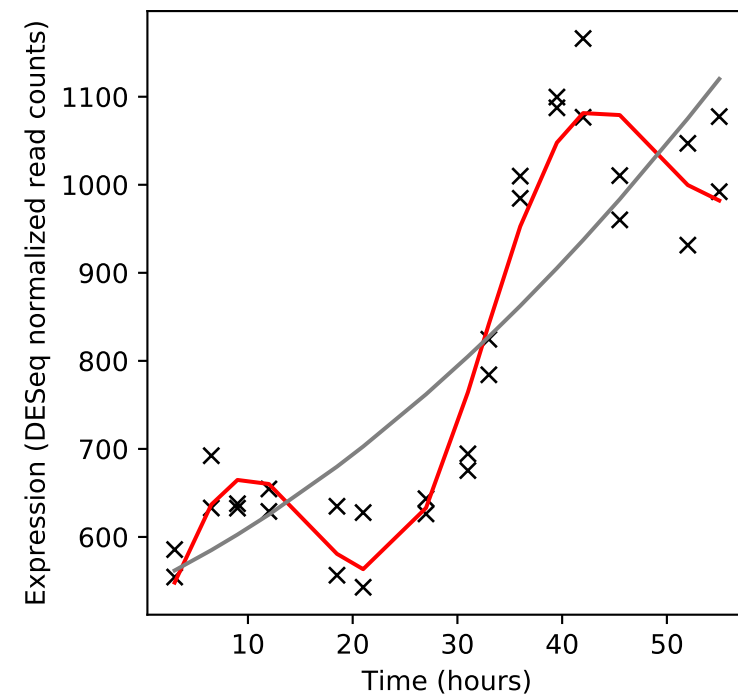
Rv3517/-



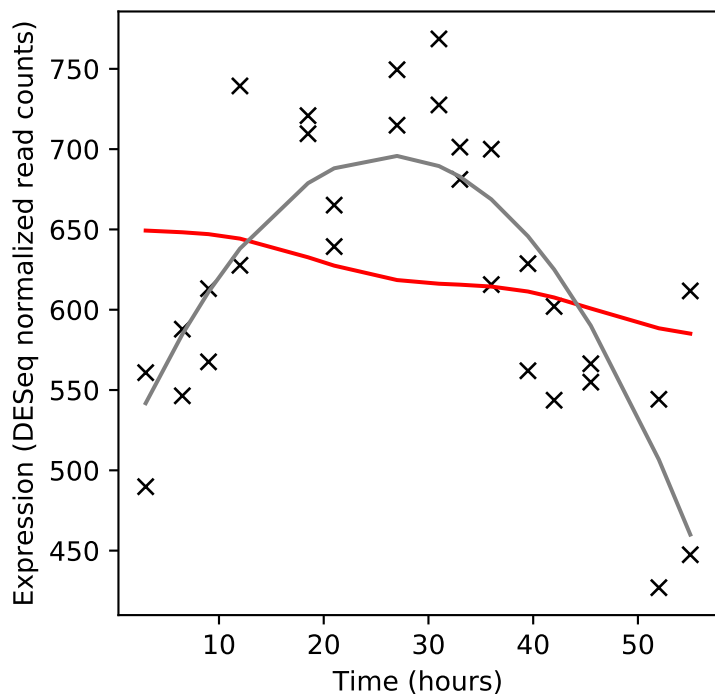
Rv3518c/cyp142



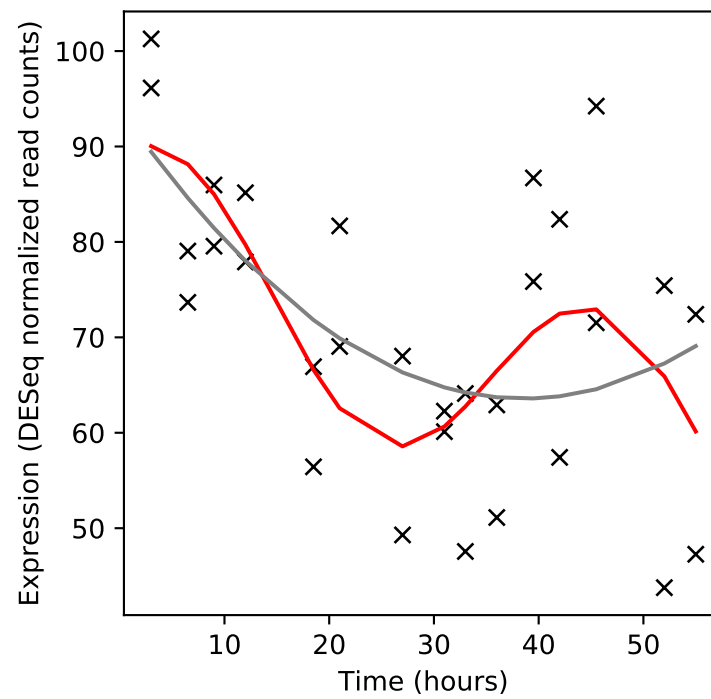
Rv3519/-



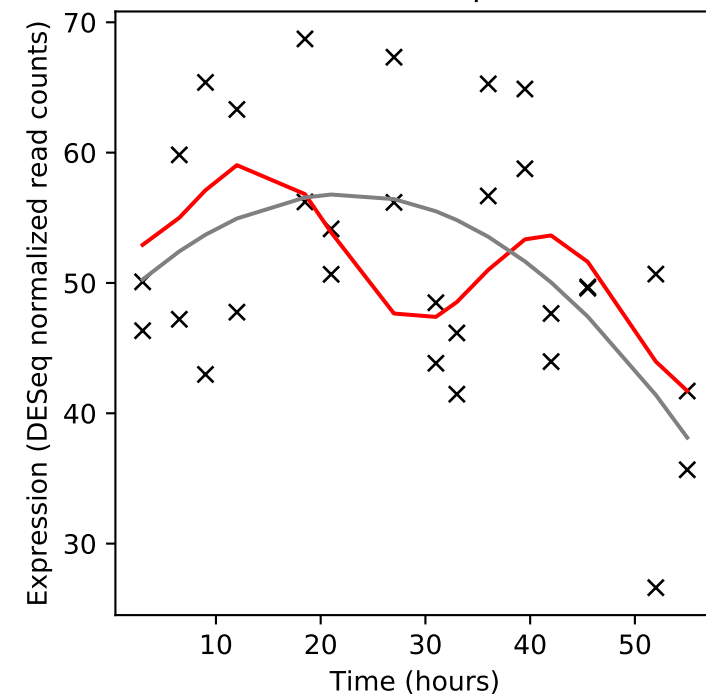
Rv3520c/-



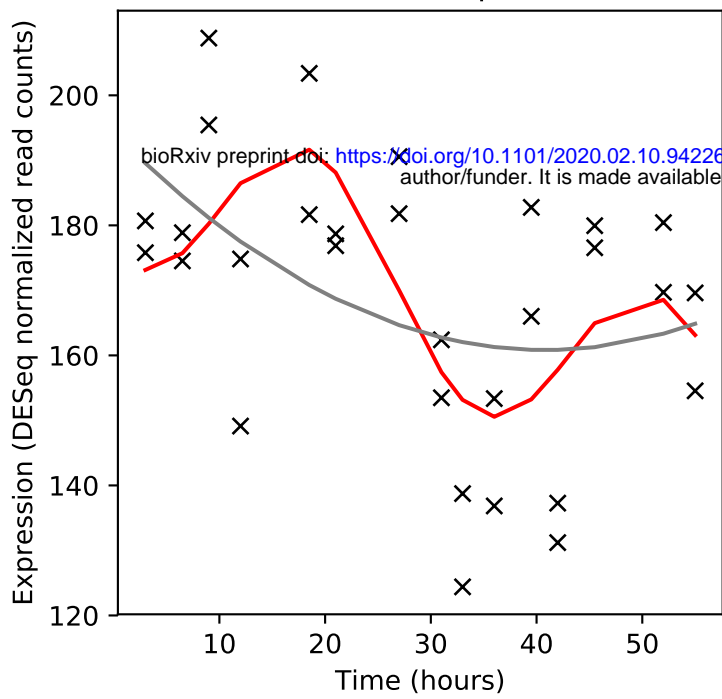
Rv3521/-



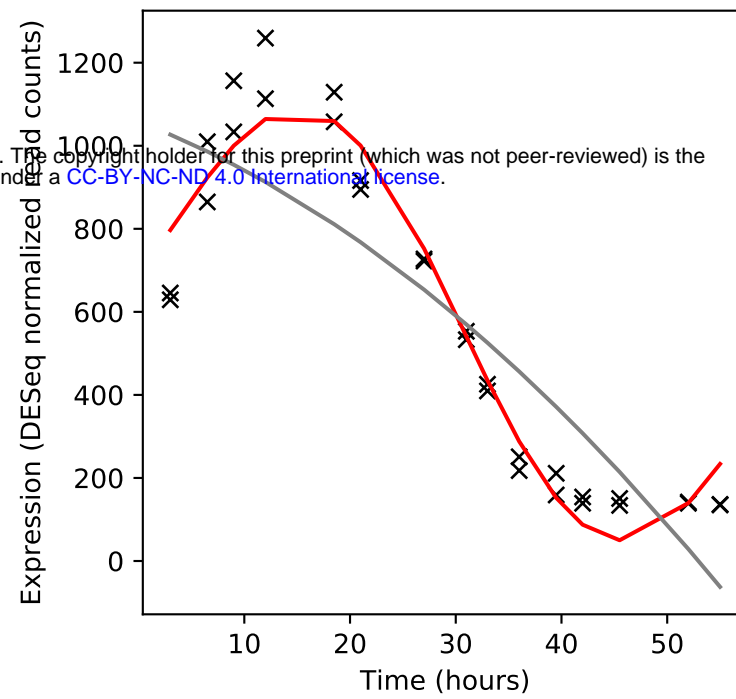
Rv3522/ltp4



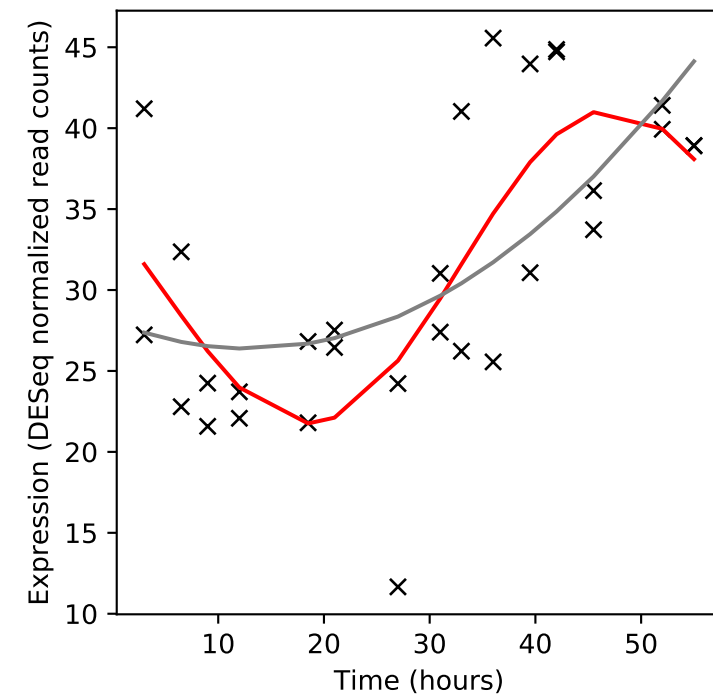
Rv3523/ltp3



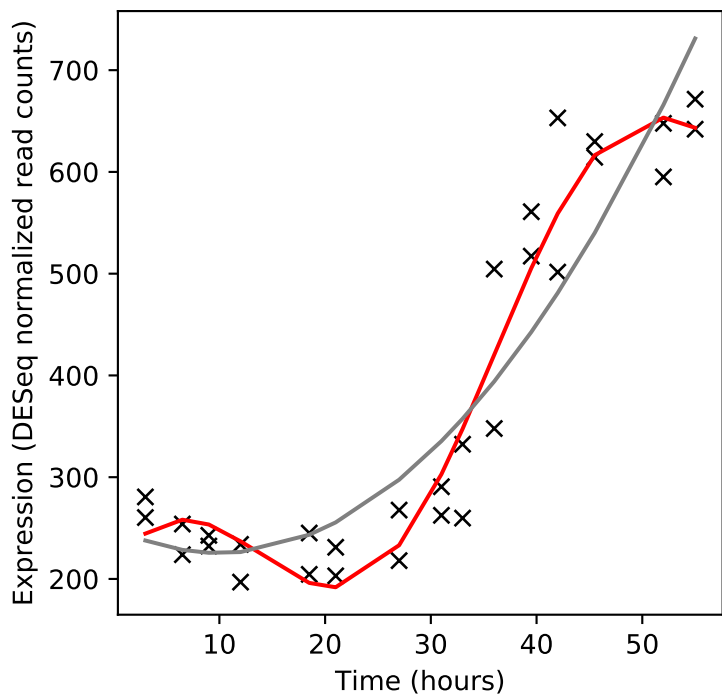
Rv3524/-



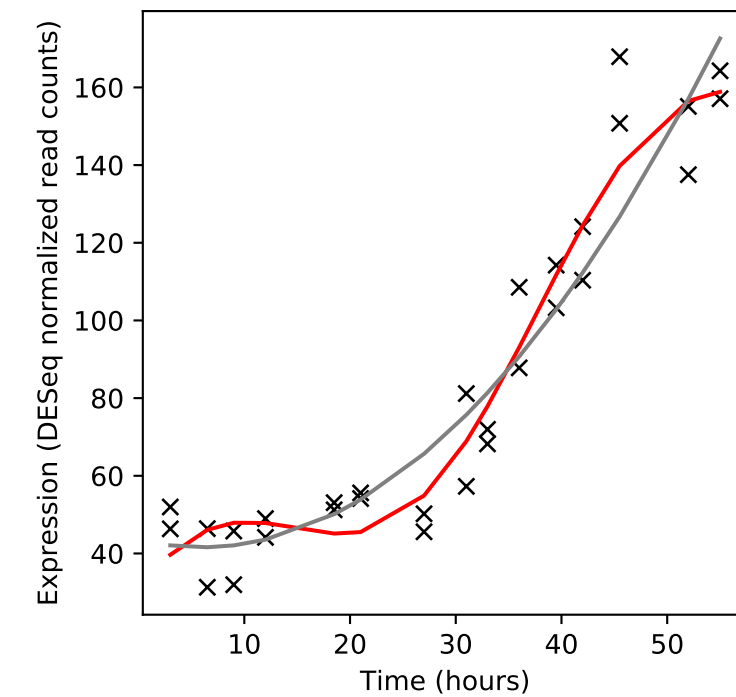
Rv3525c/-



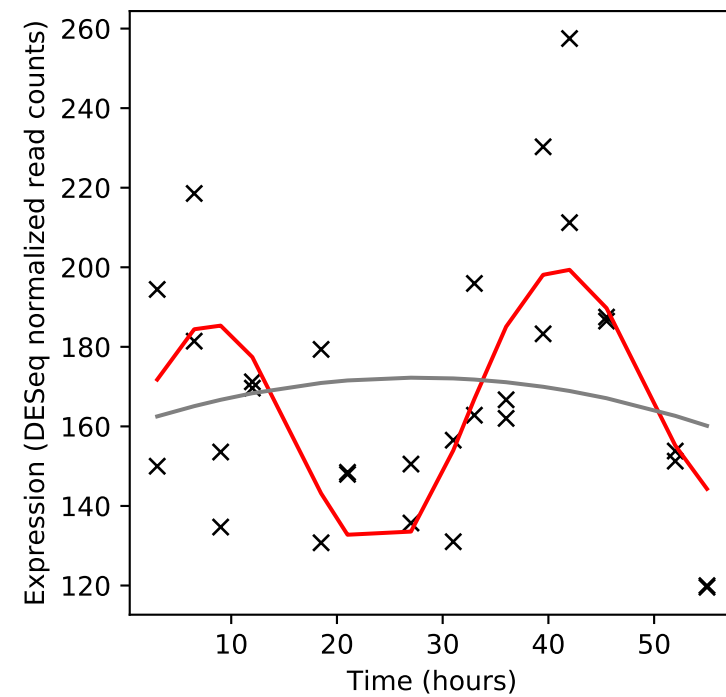
Rv3526/kshA



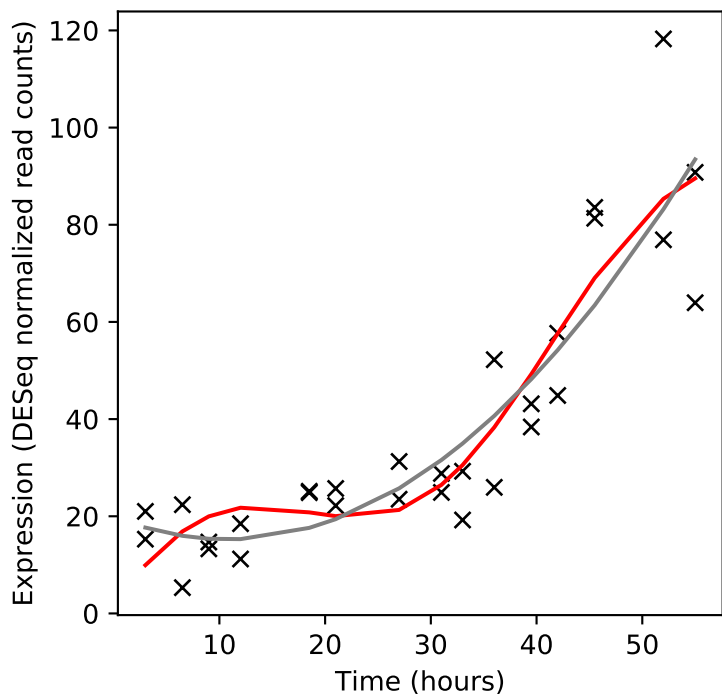
Rv3527/-



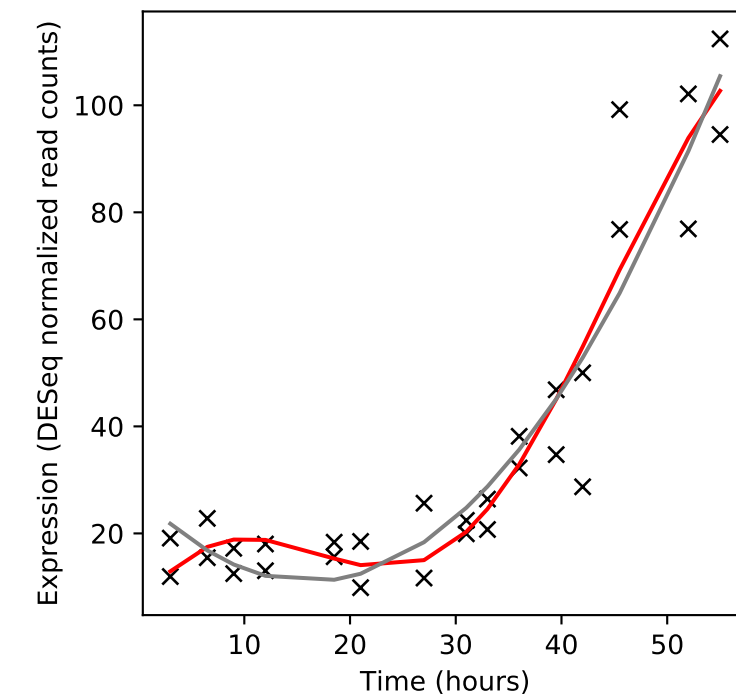
Rv3528c/-



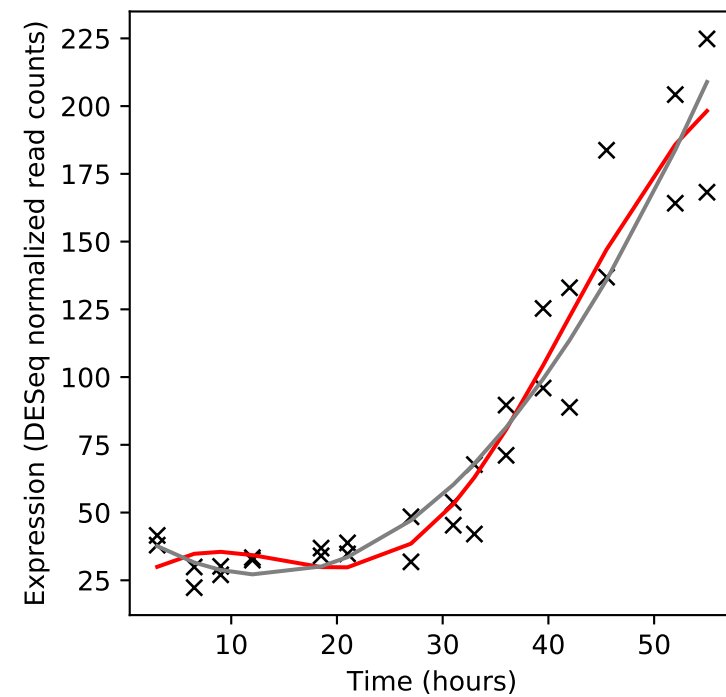
Rv3529c/-



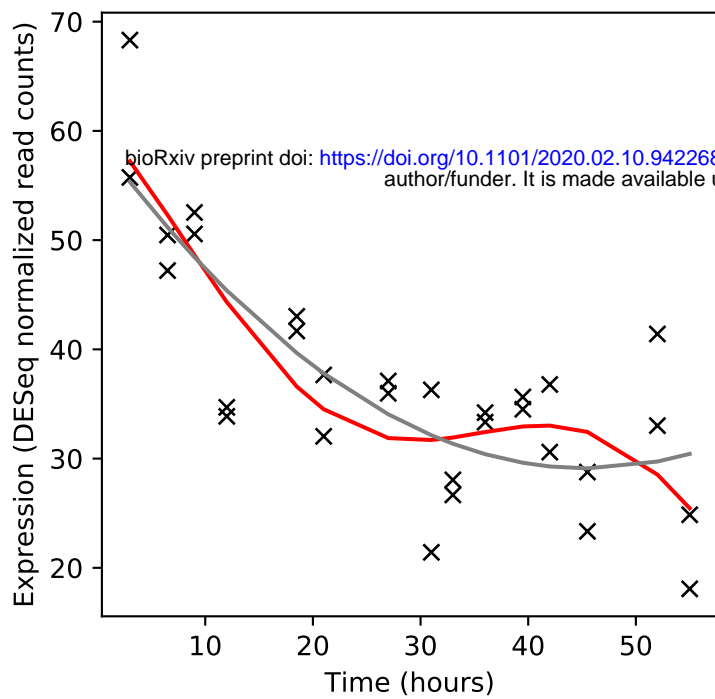
Rv3530c/-



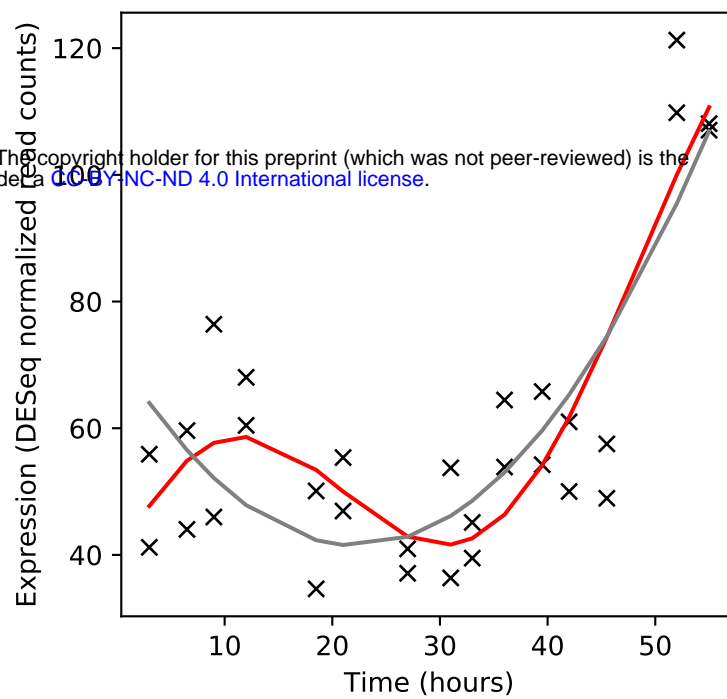
Rv3531c/-



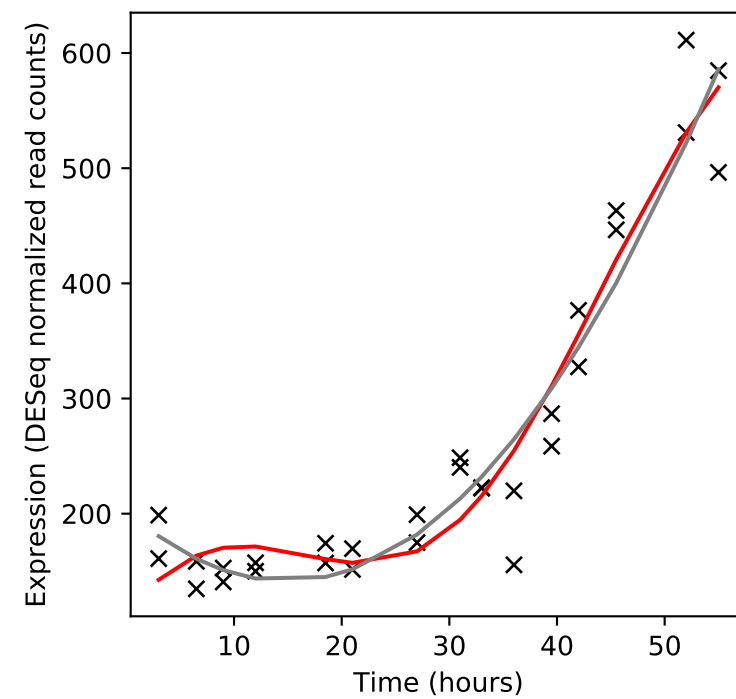
Rv3532/PPE61



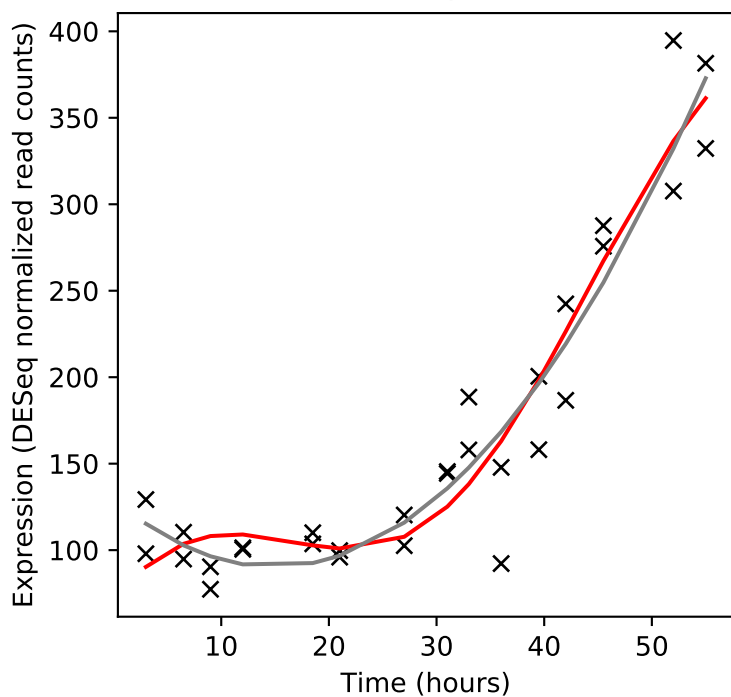
Rv3533c/PPE62



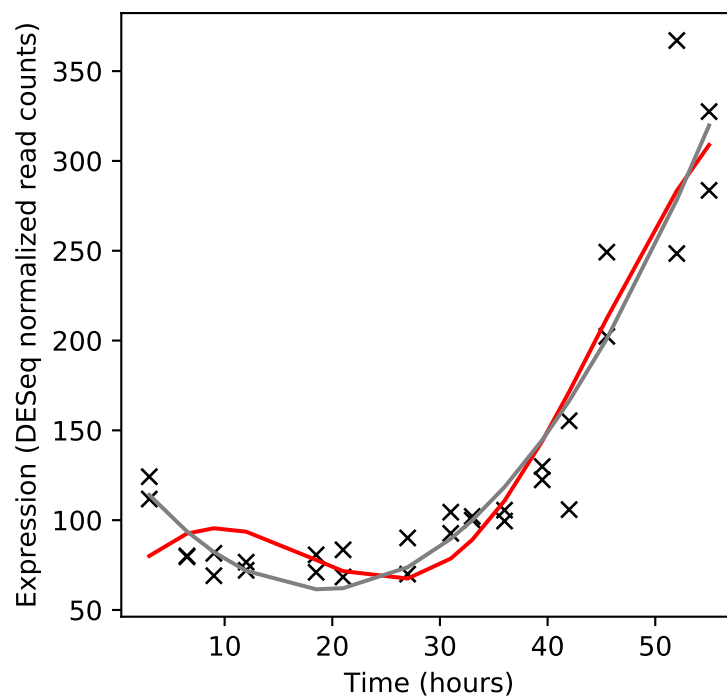
Rv3534c/hsaF



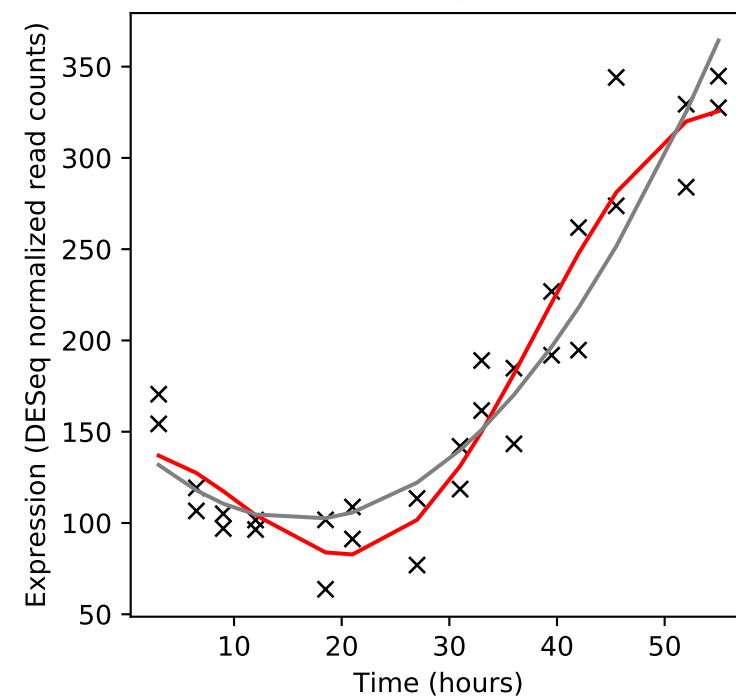
Rv3535c/hsaG



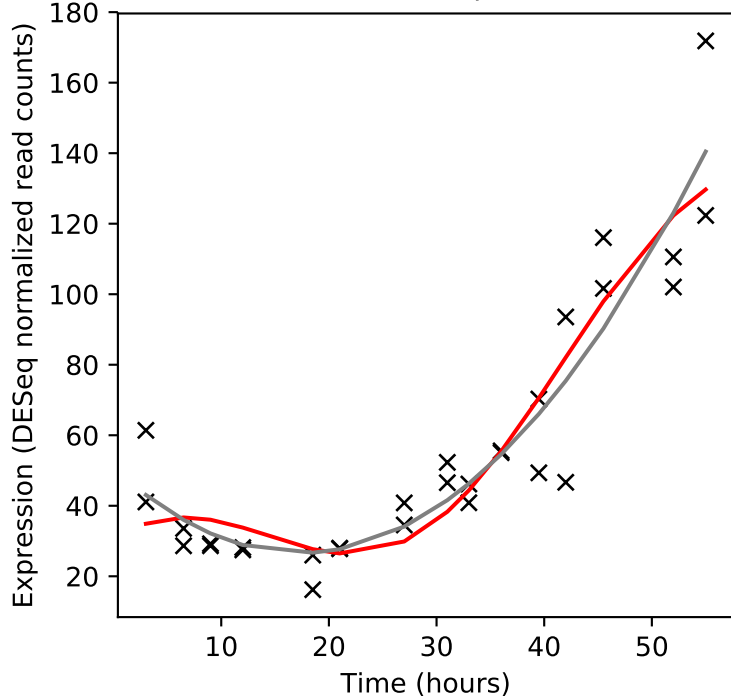
Rv3536c/hsaE



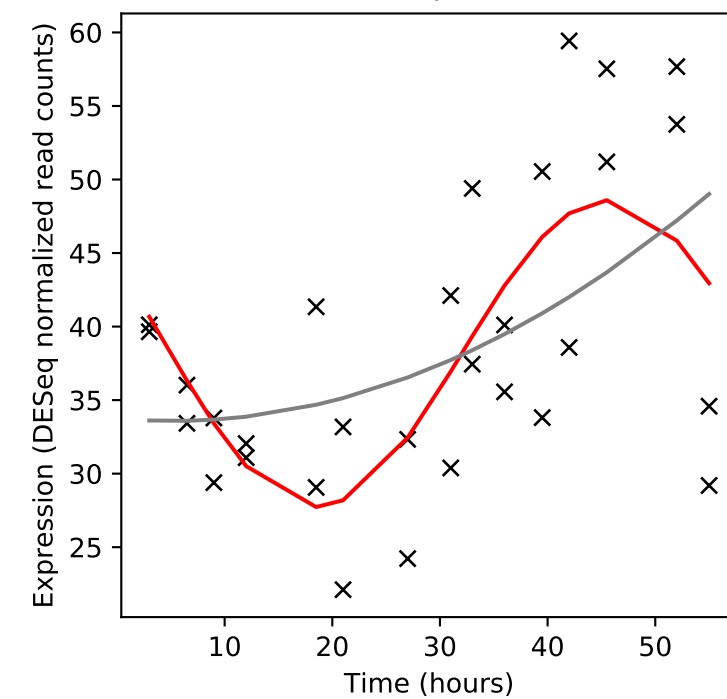
Rv3537/kstD



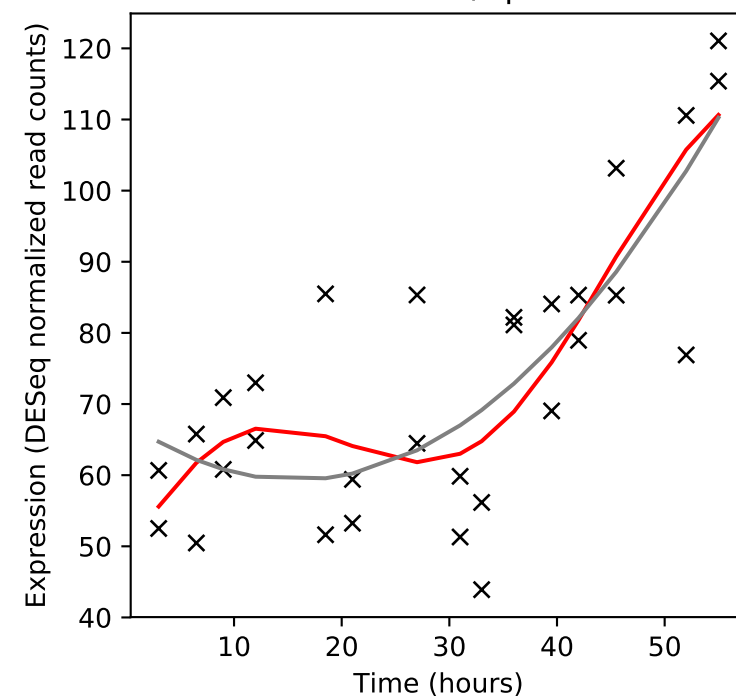
Rv3538/-



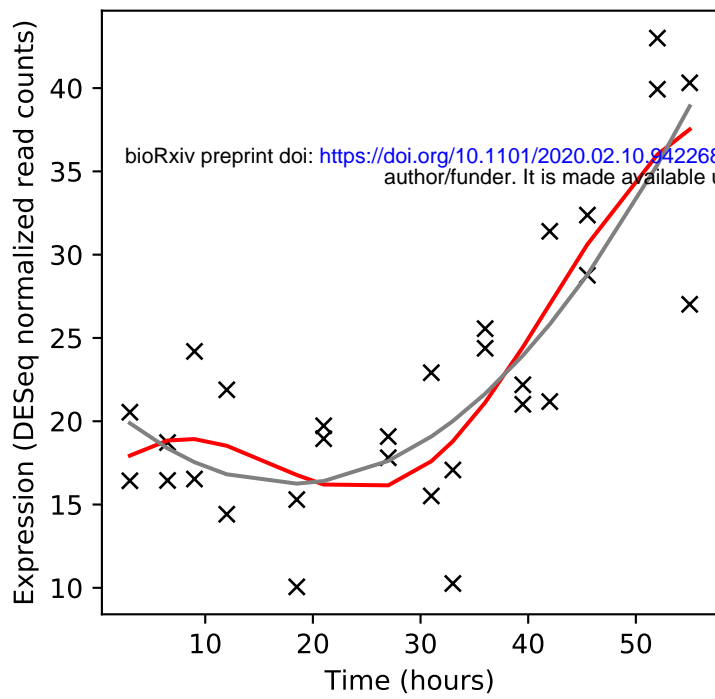
Rv3539/PPE63



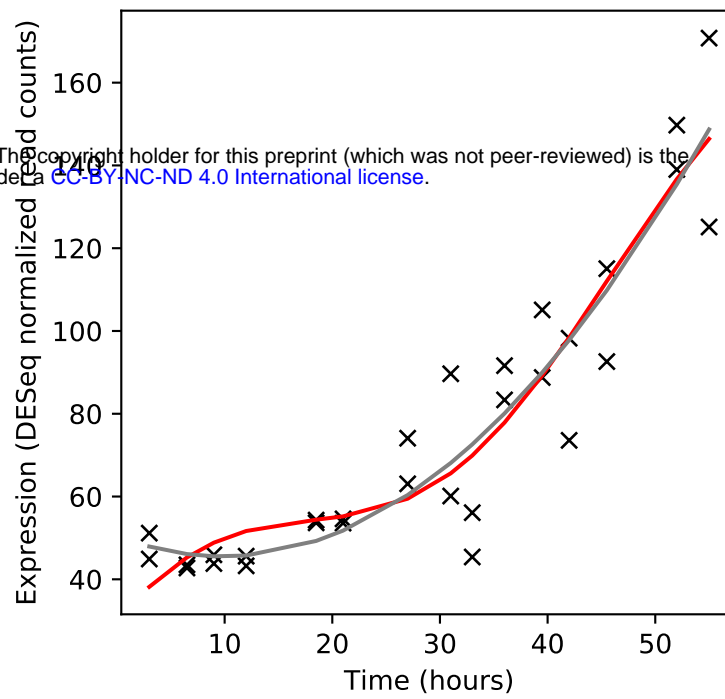
Rv3540c/Itp2



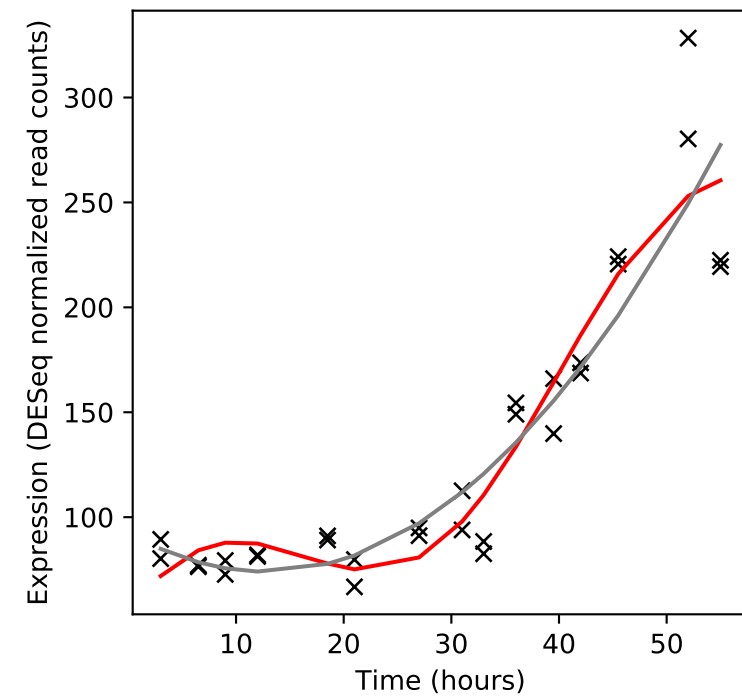
Rv3541c/-



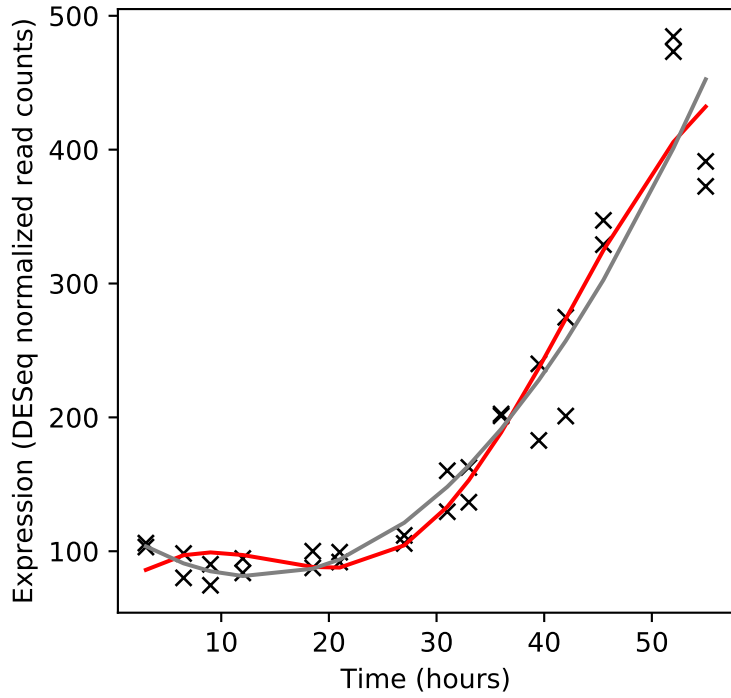
Rv3542c/-



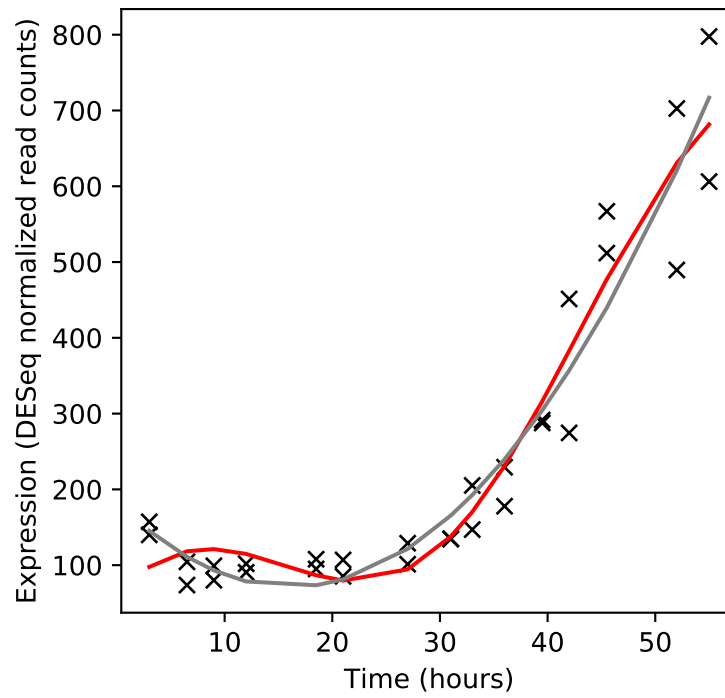
Rv3543c/fadE29



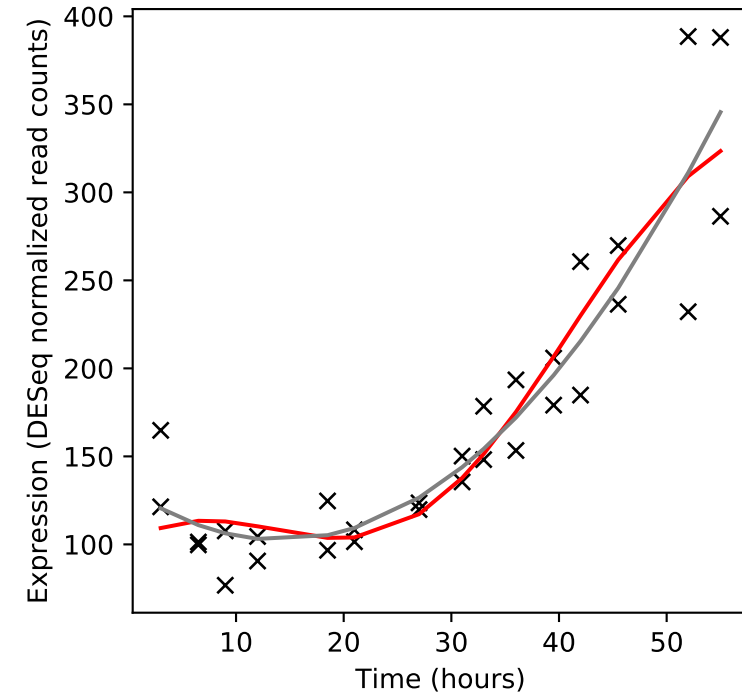
Rv3544c/fadE28



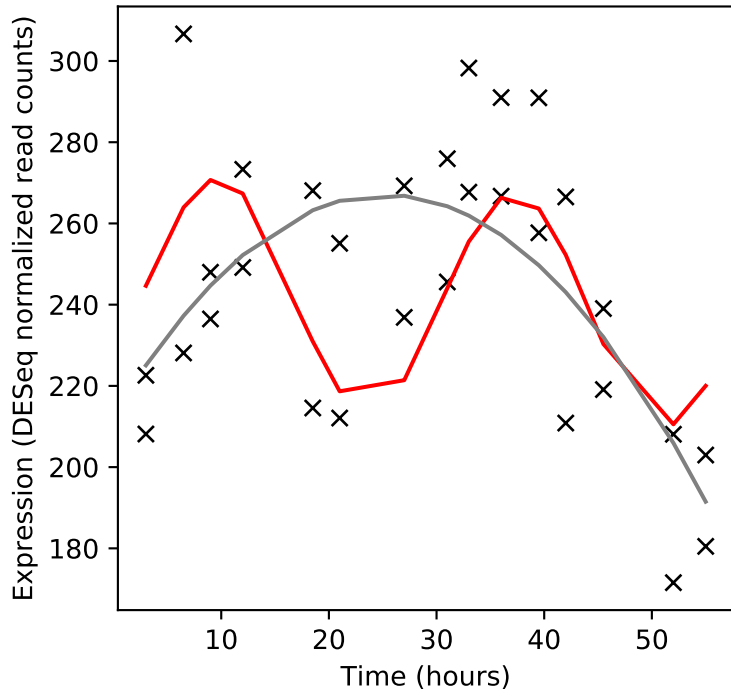
Rv3545c/cyp125



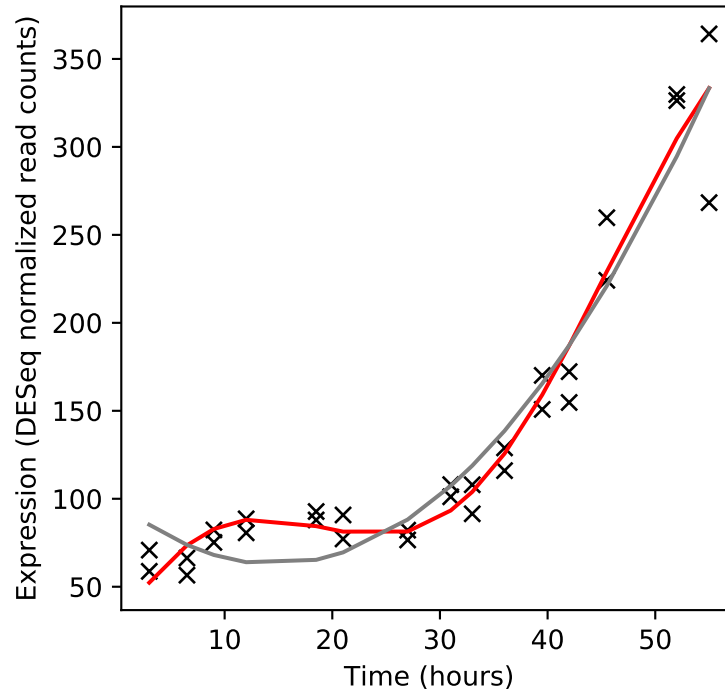
Rv3546/fadA5



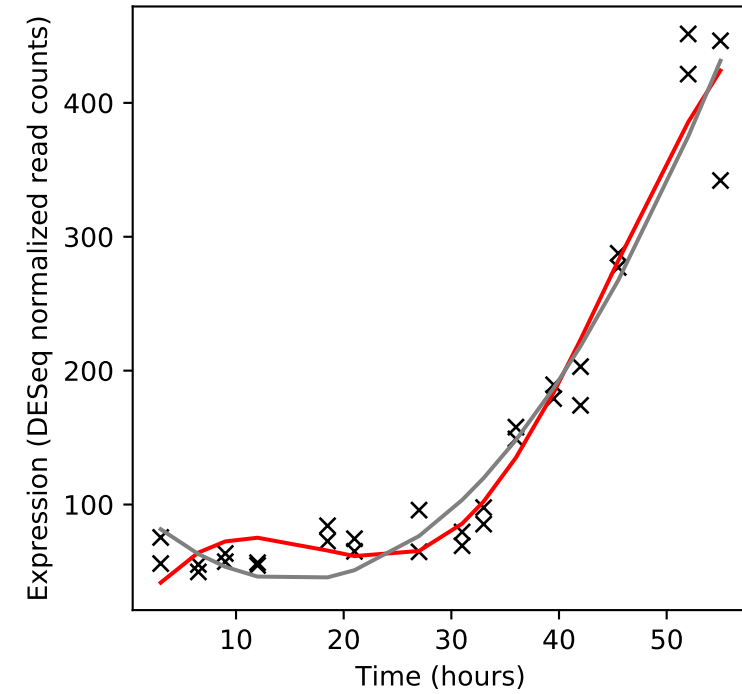
Rv3547/ddn



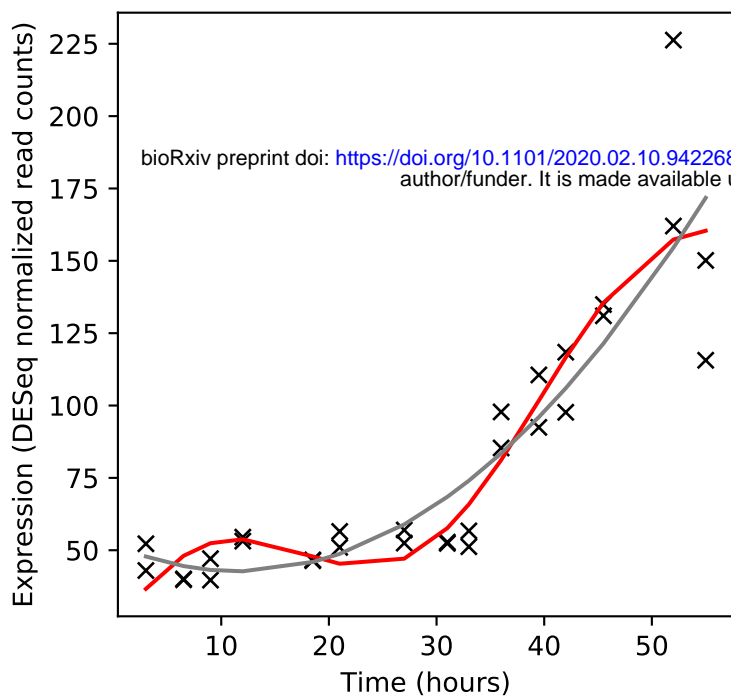
Rv3548c/-



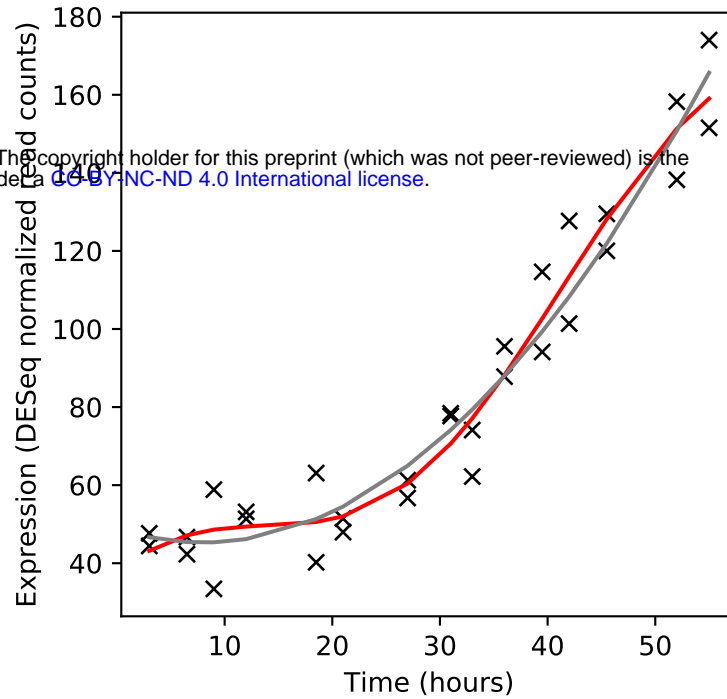
Rv3549c/-



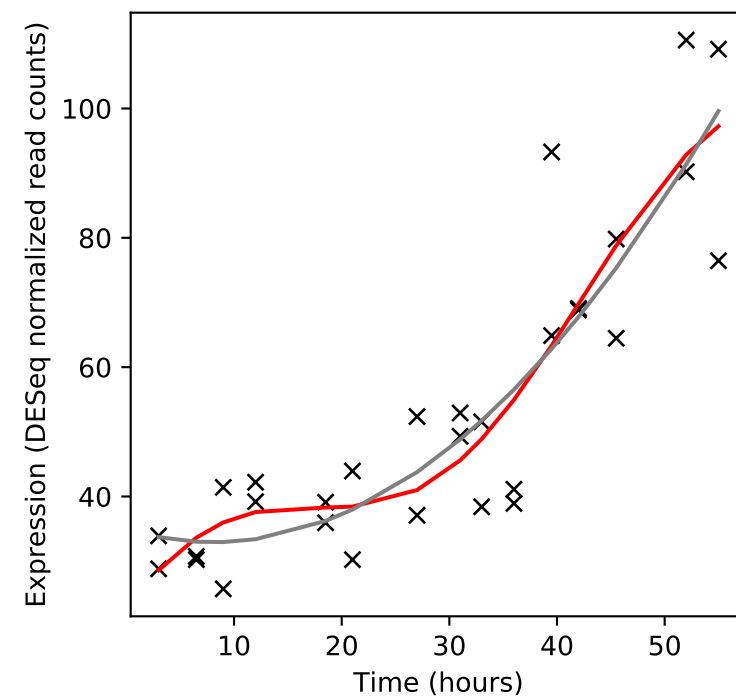
Rv3550/echA20



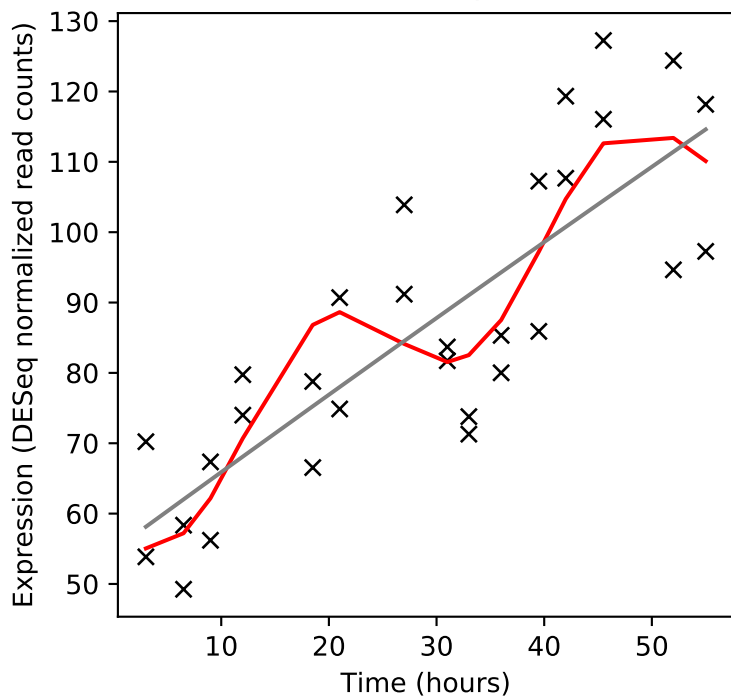
Rv3551/-



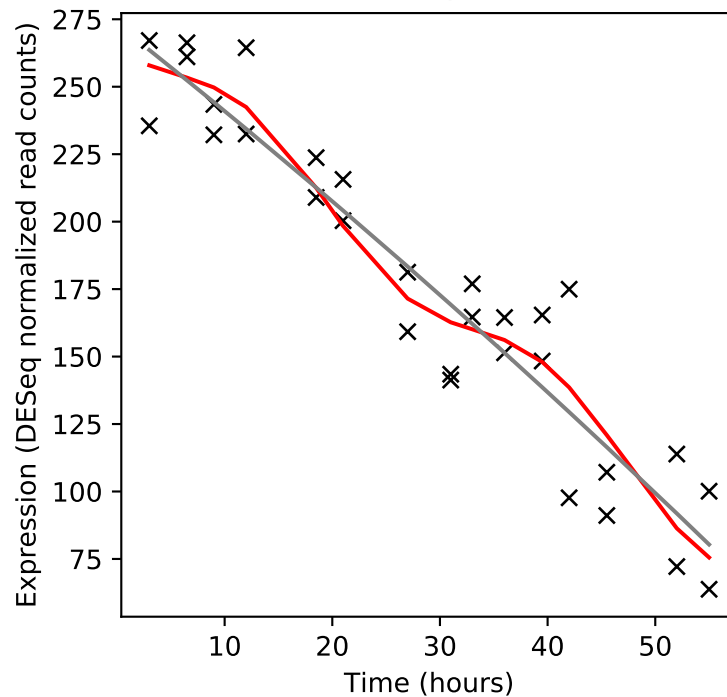
Rv3552/-



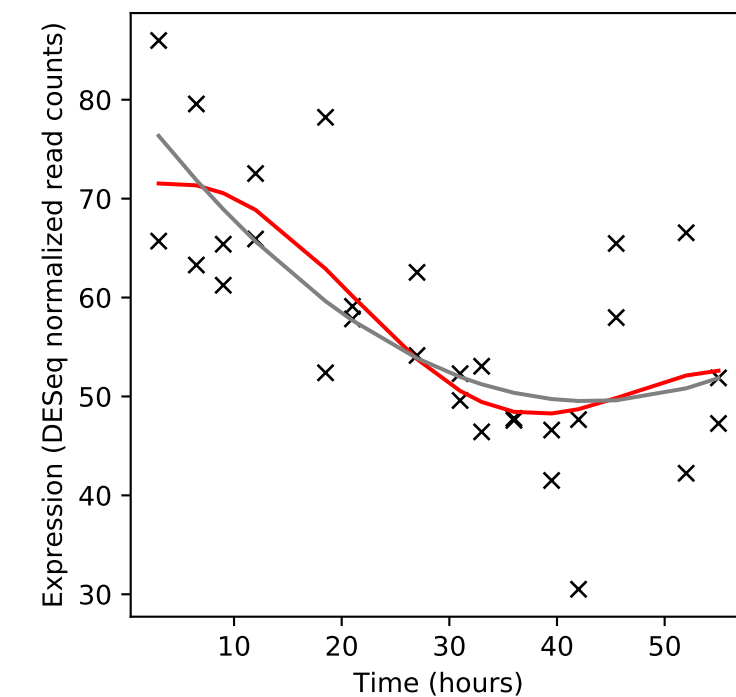
Rv3553/-



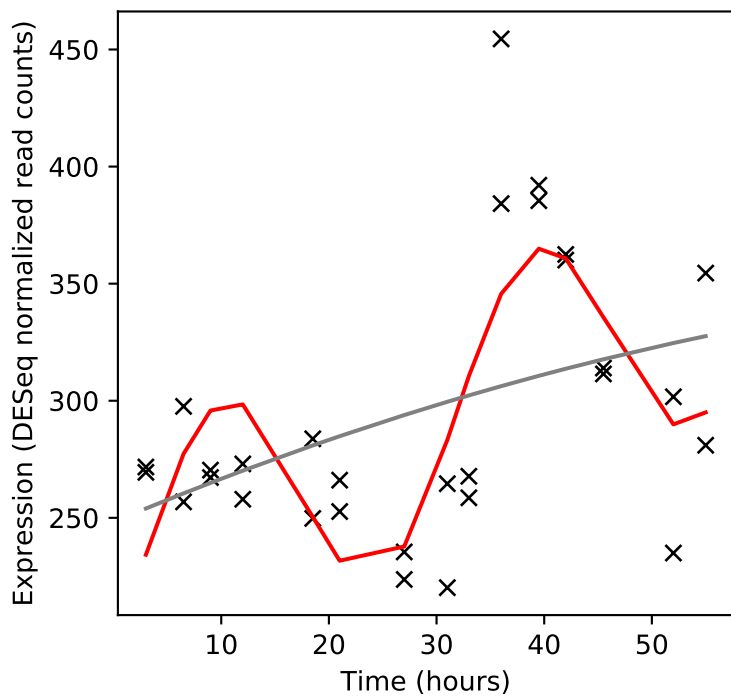
Rv3554/fdxB



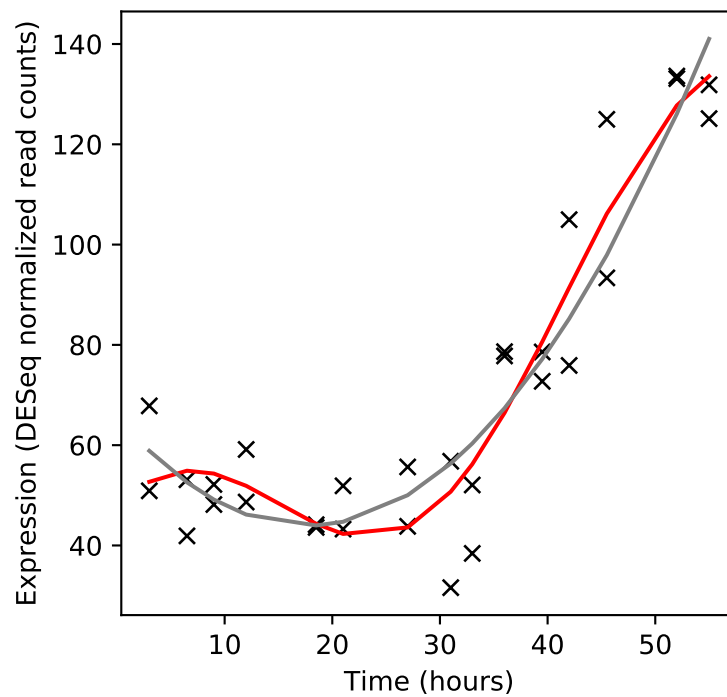
Rv3555c/-



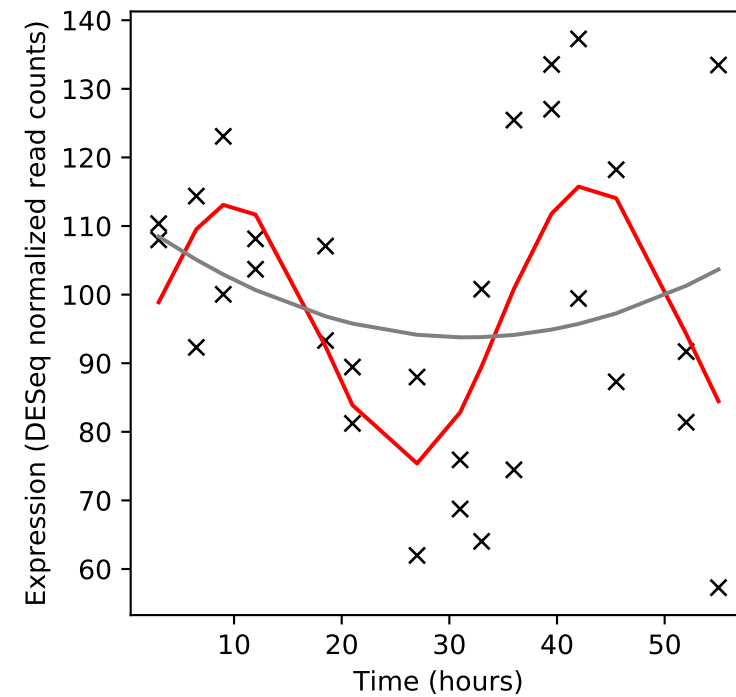
Rv3556c/fadA6



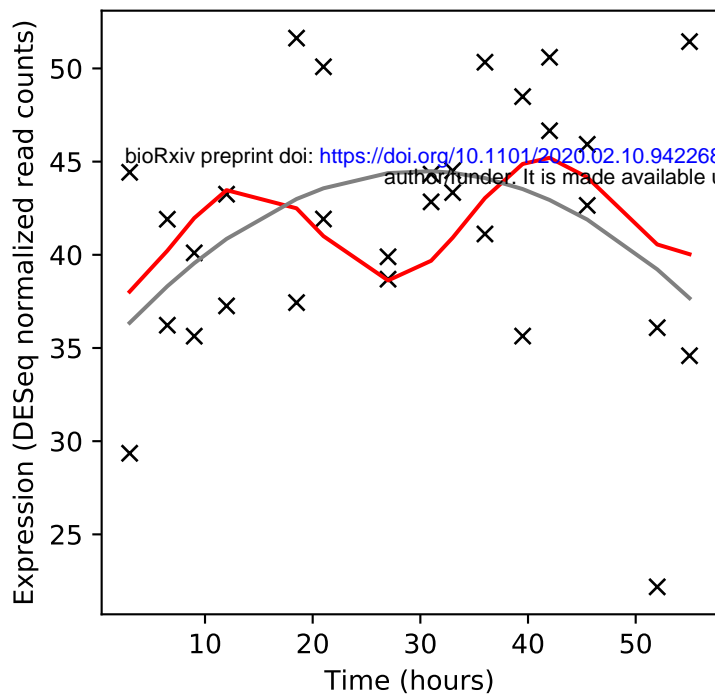
Rv3557c/-



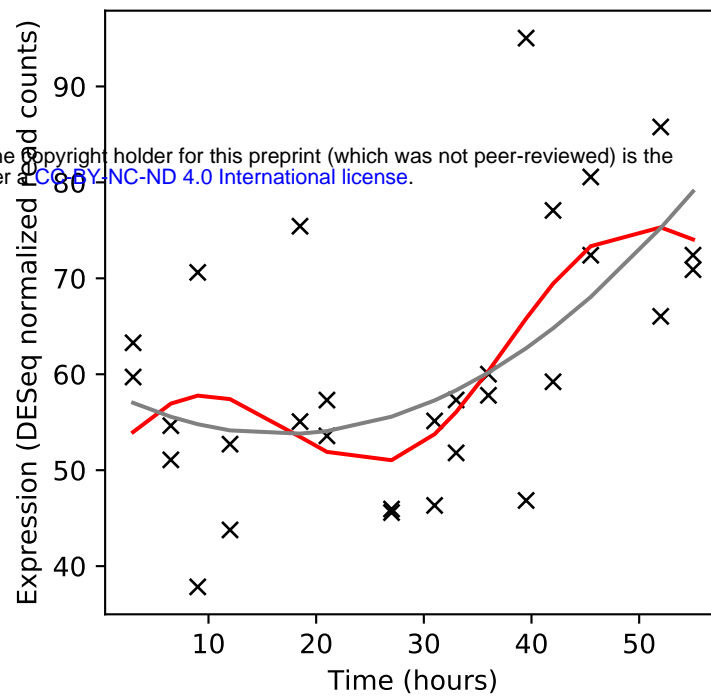
Rv3558/PPE64



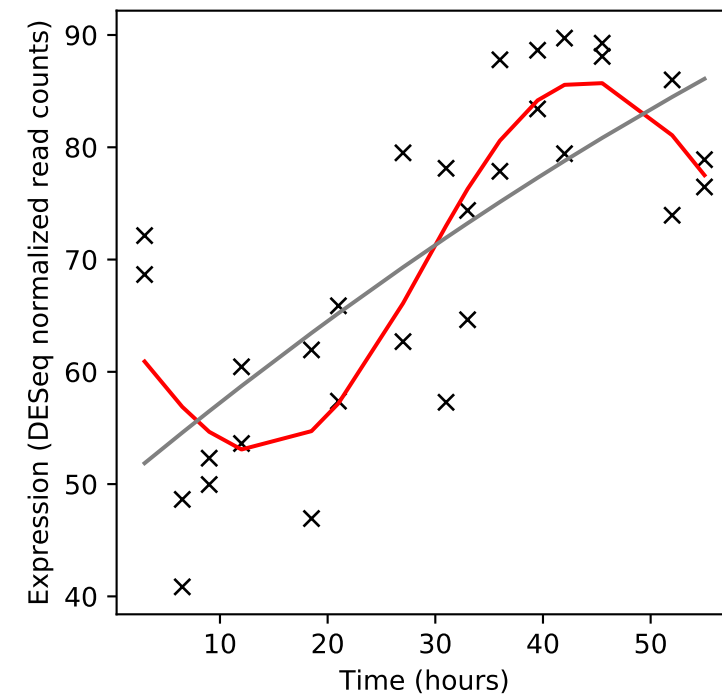
Rv3559c/-



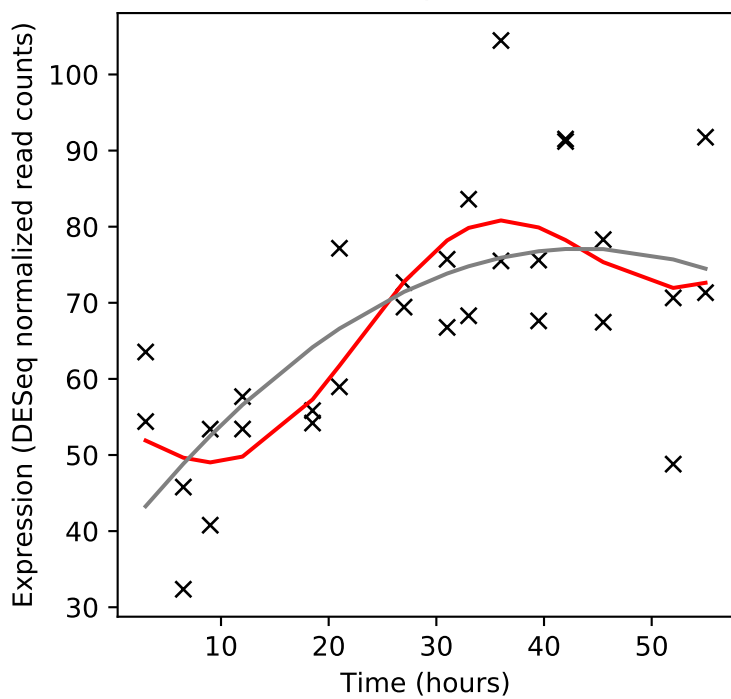
Rv3560c/fadE30



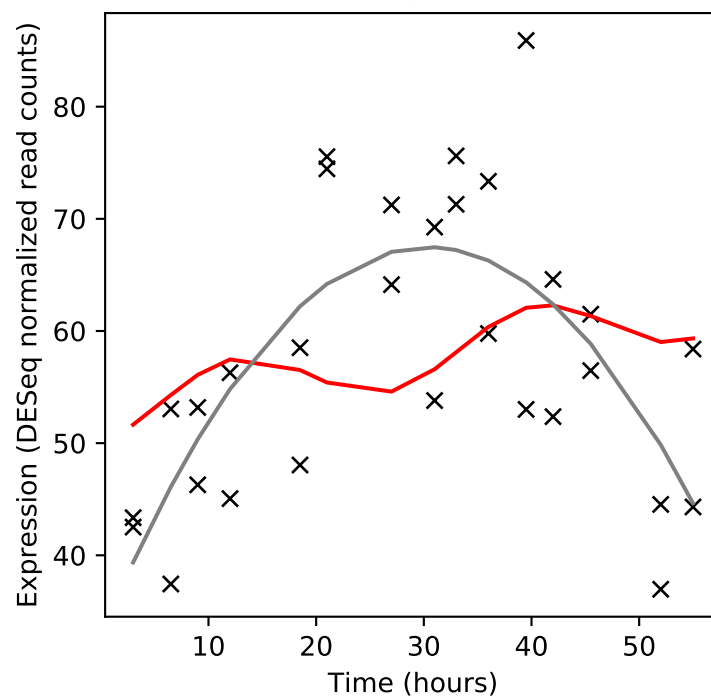
Rv3561/fadD3



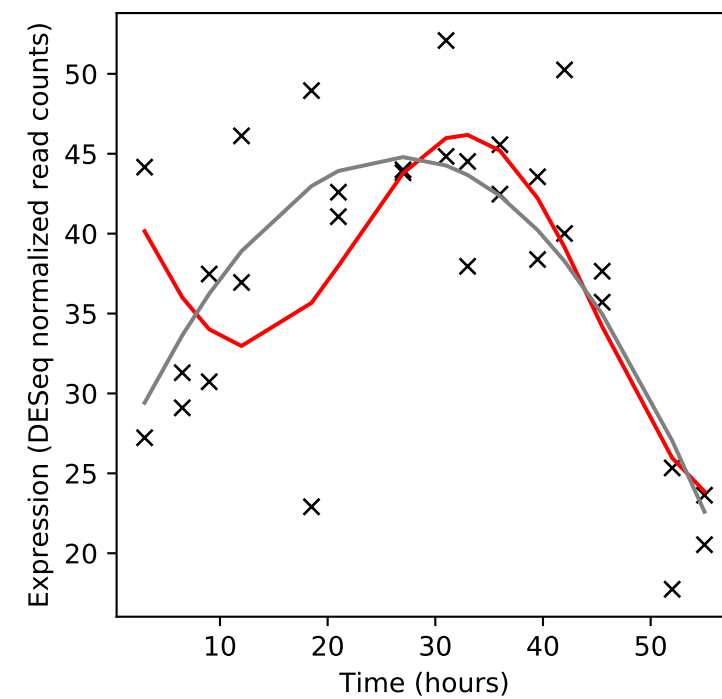
Rv3562/fadE31



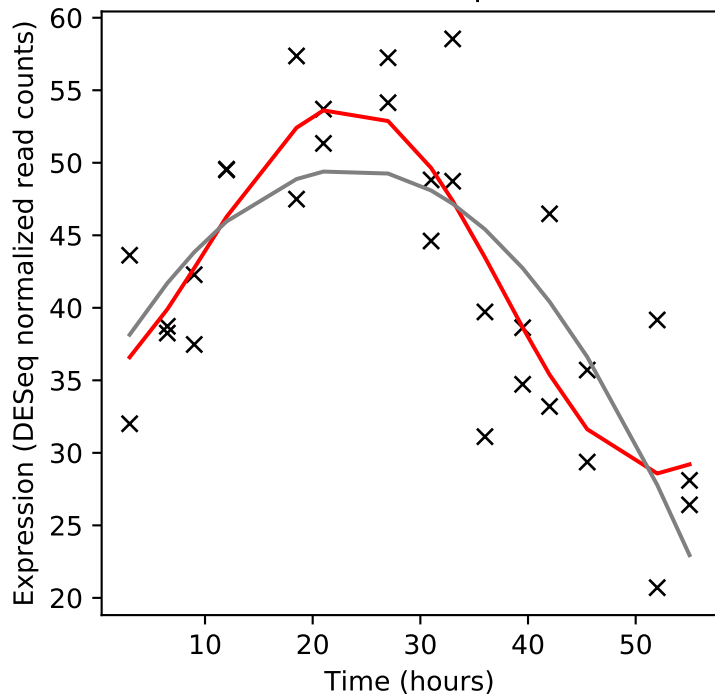
Rv3563/fadE32



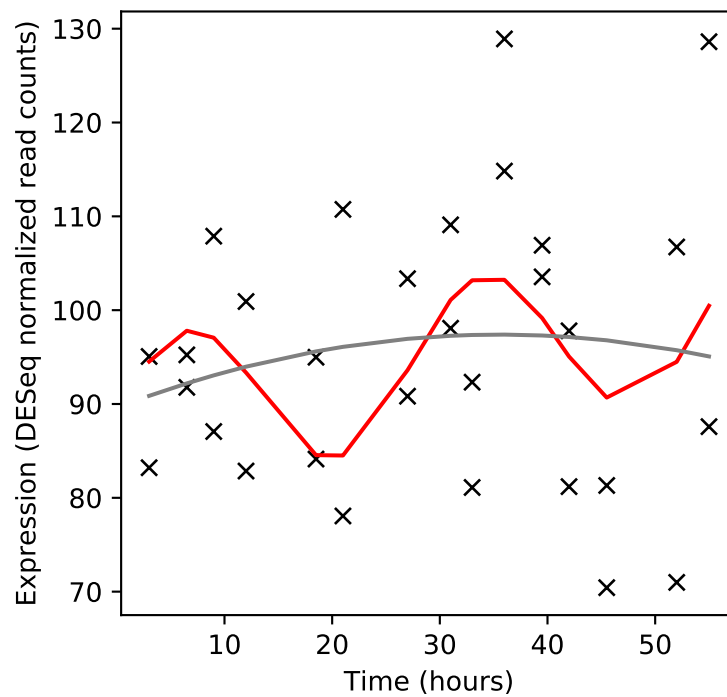
Rv3564/fadE33



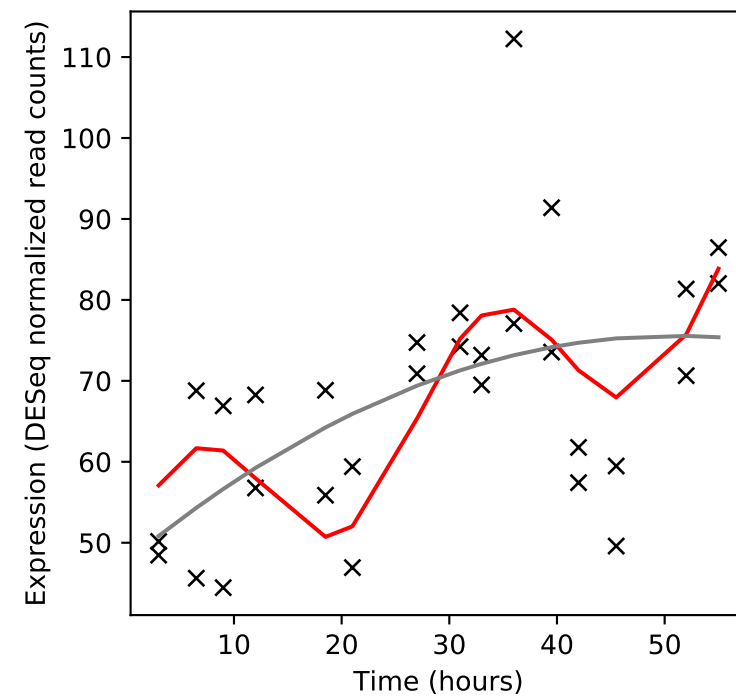
Rv3565/aspB



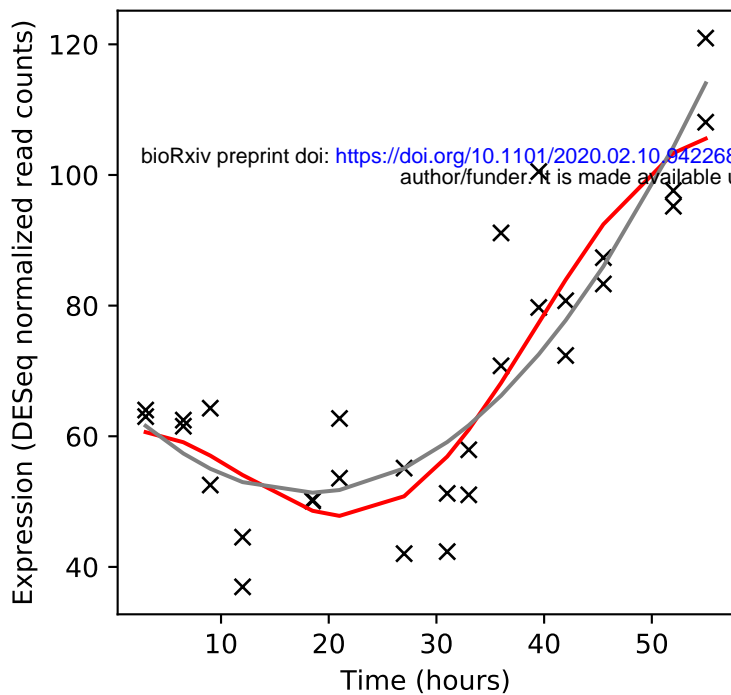
Rv3566c/nat



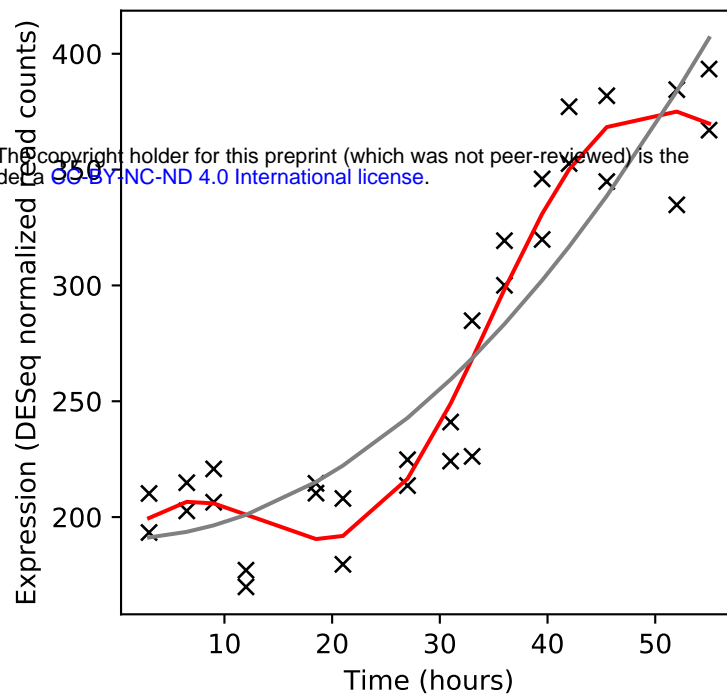
Rv3566A/-



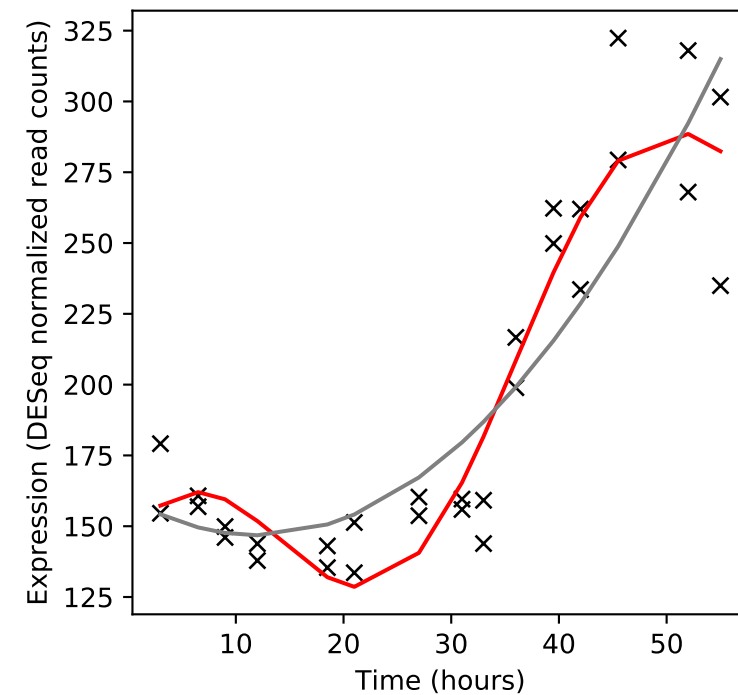
Rv3567c/hsaB



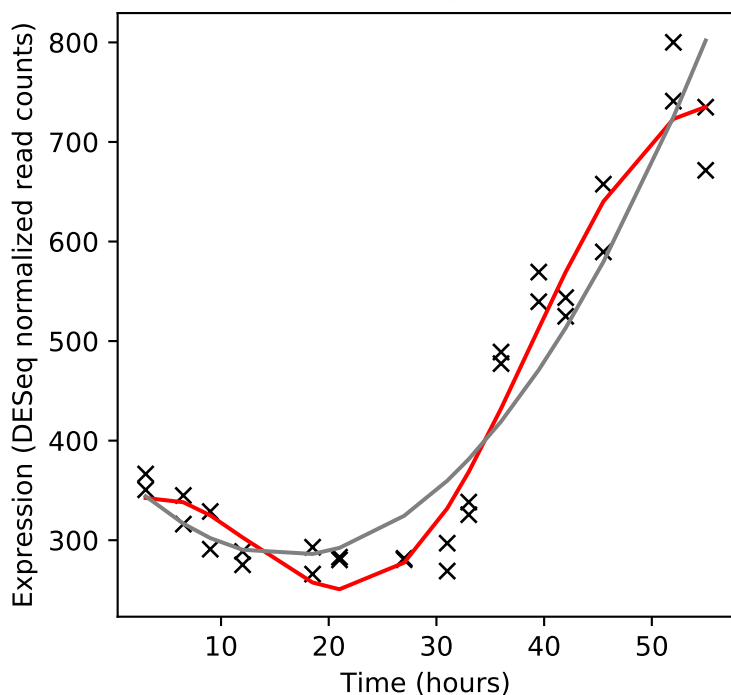
Rv3568c/hsaC



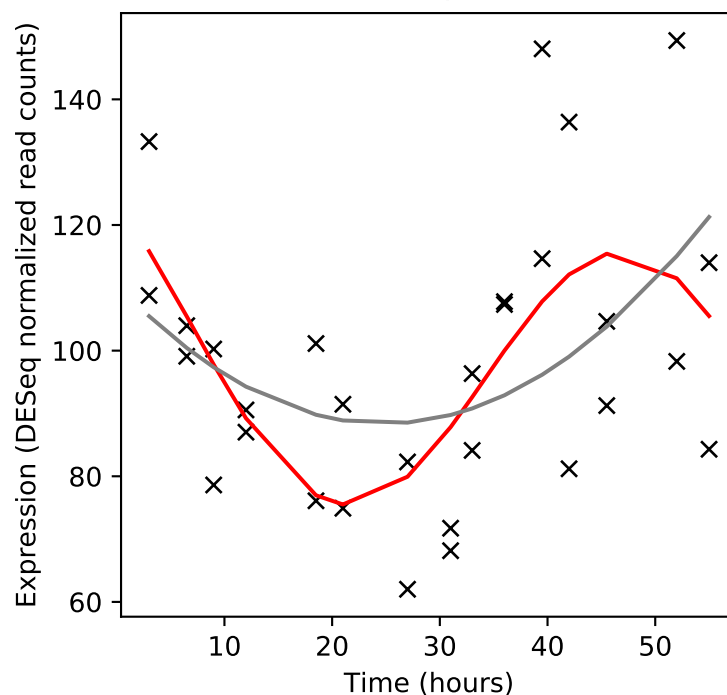
Rv3569c/hsaD



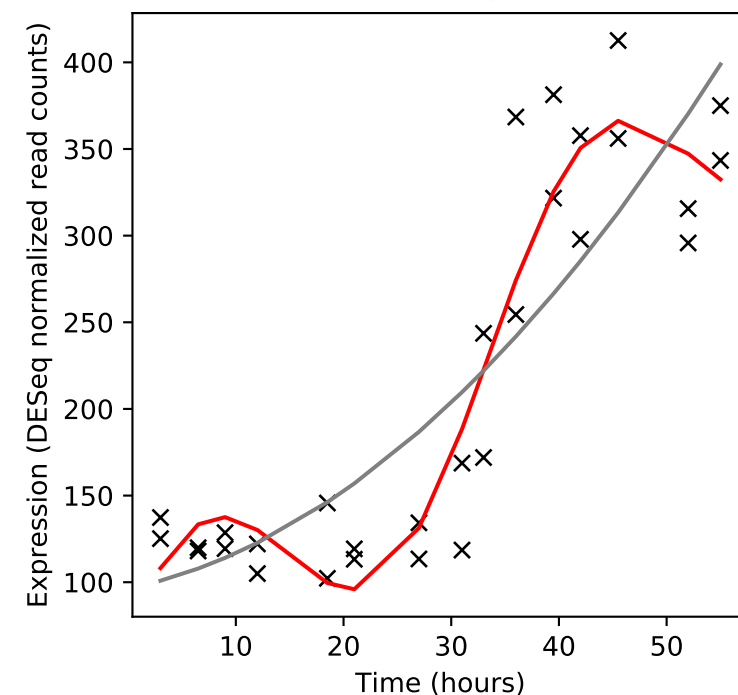
Rv3570c/hsaA



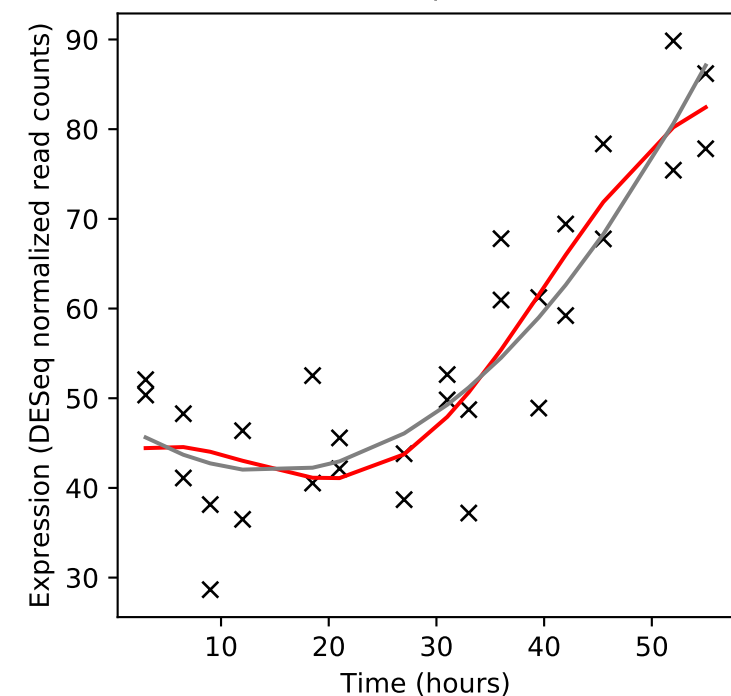
Rv3571/kshB



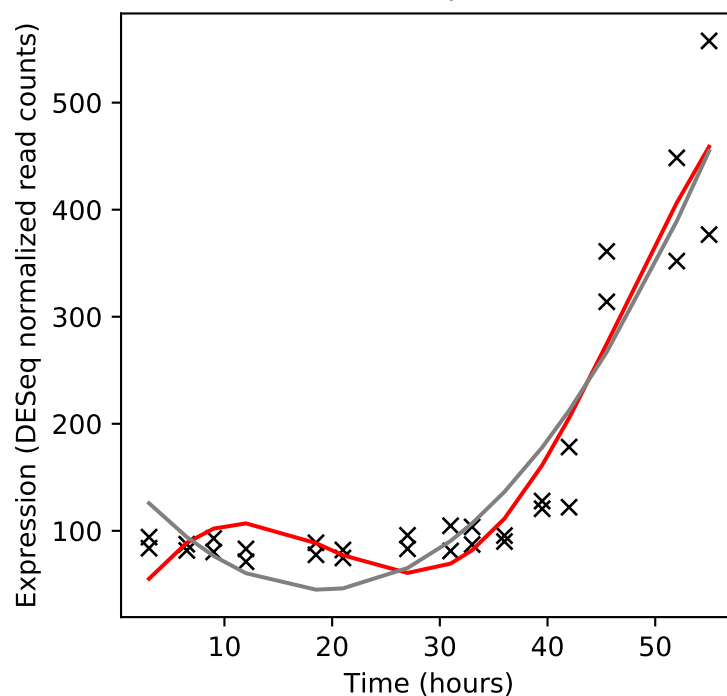
Rv3572/-



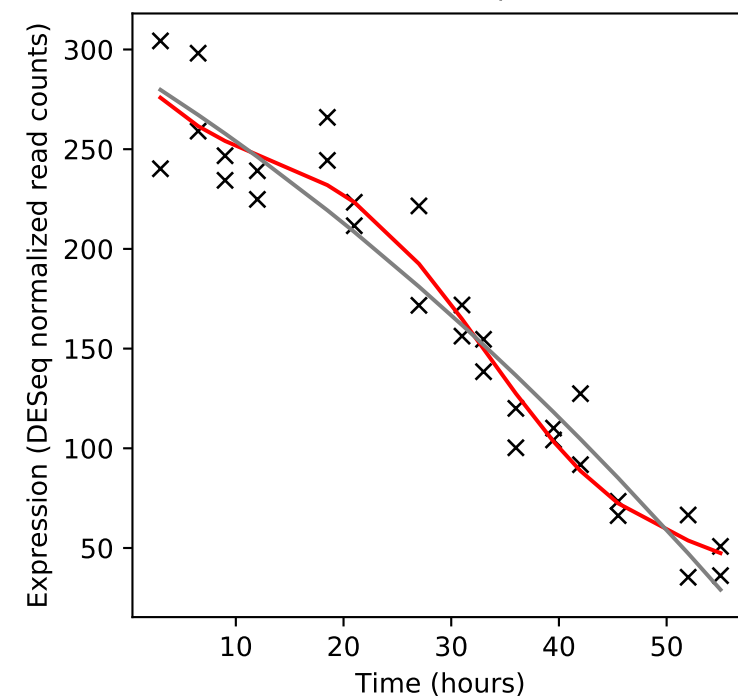
Rv3573c/fadE34



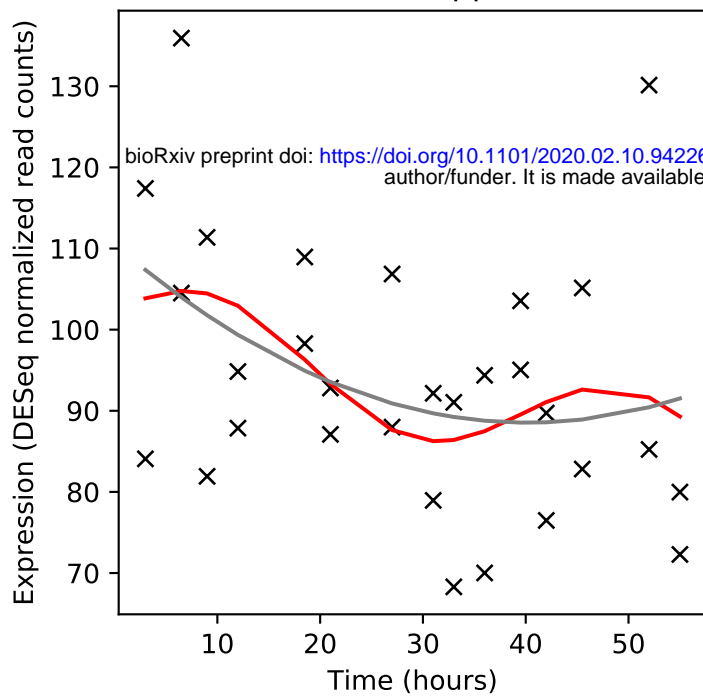
Rv3574/kstR



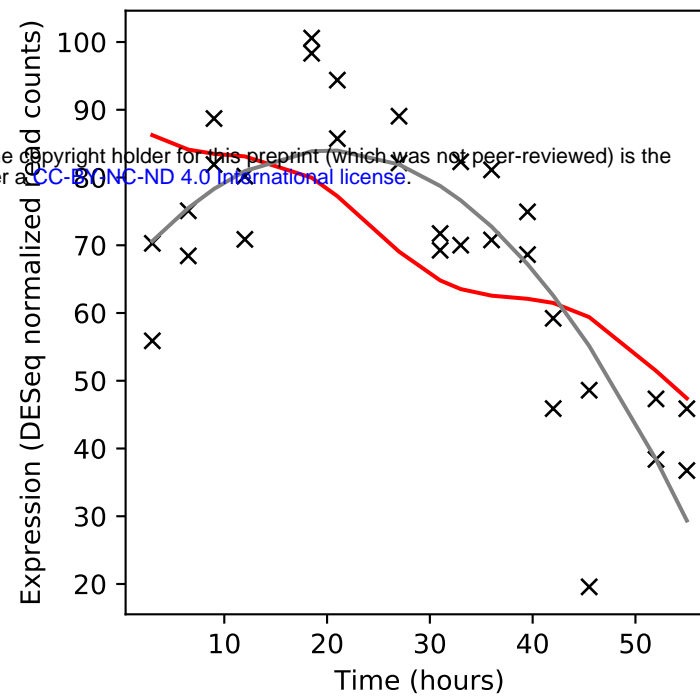
Rv3575c/-



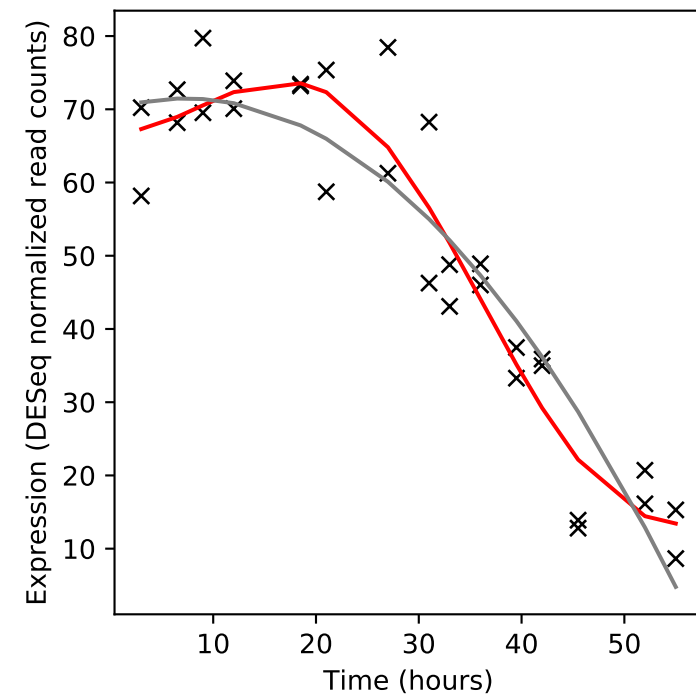
Rv3576/lppH



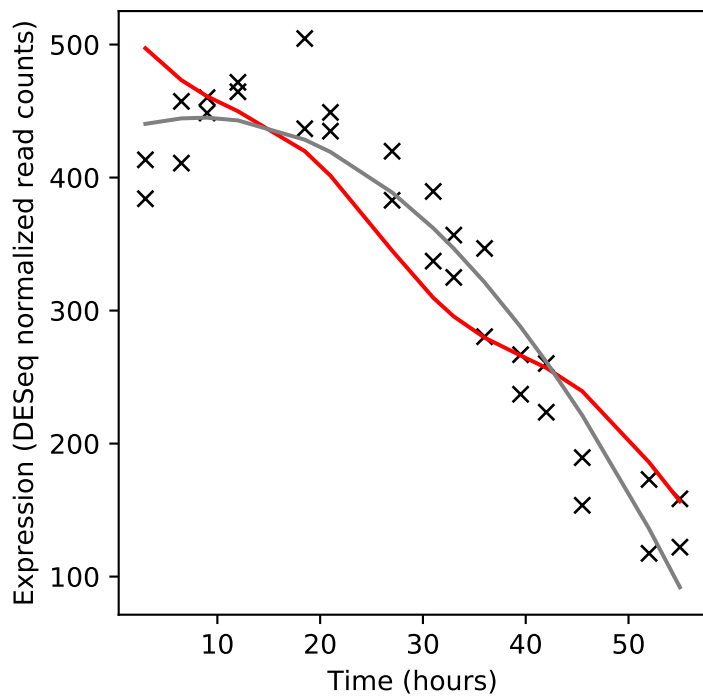
Rv3577/-



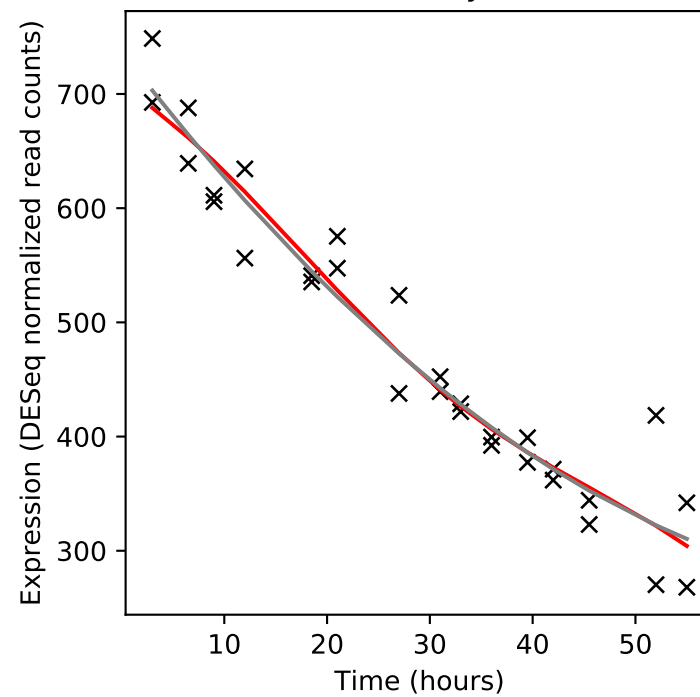
Rv3578/arsB2



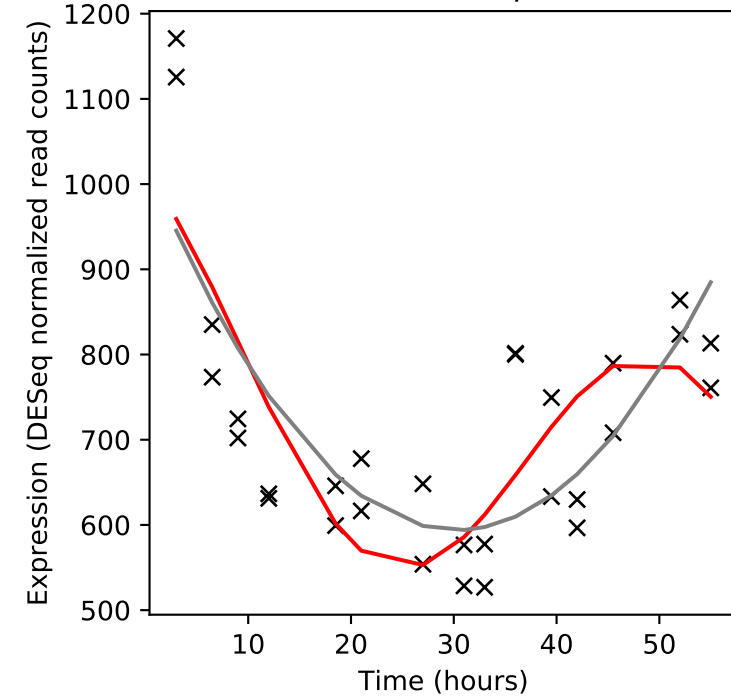
Rv3579c/-



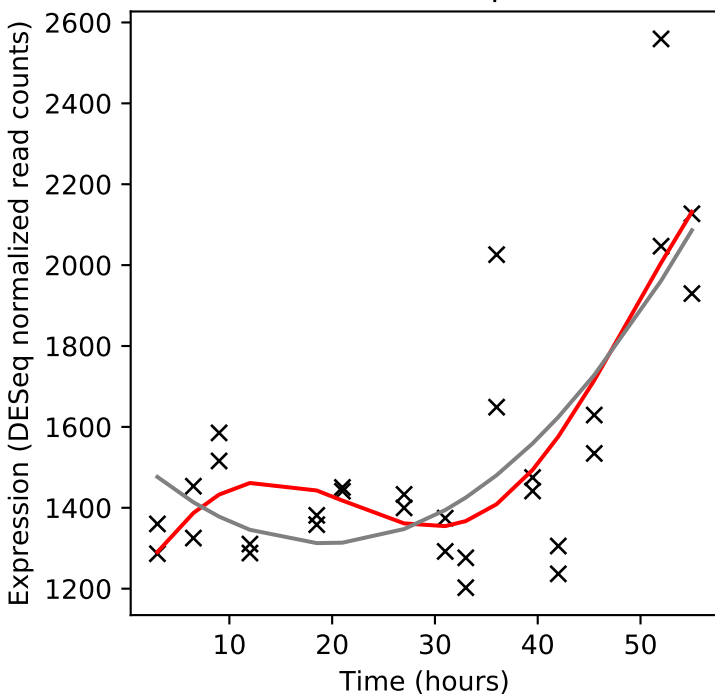
Rv3580c/cysS1



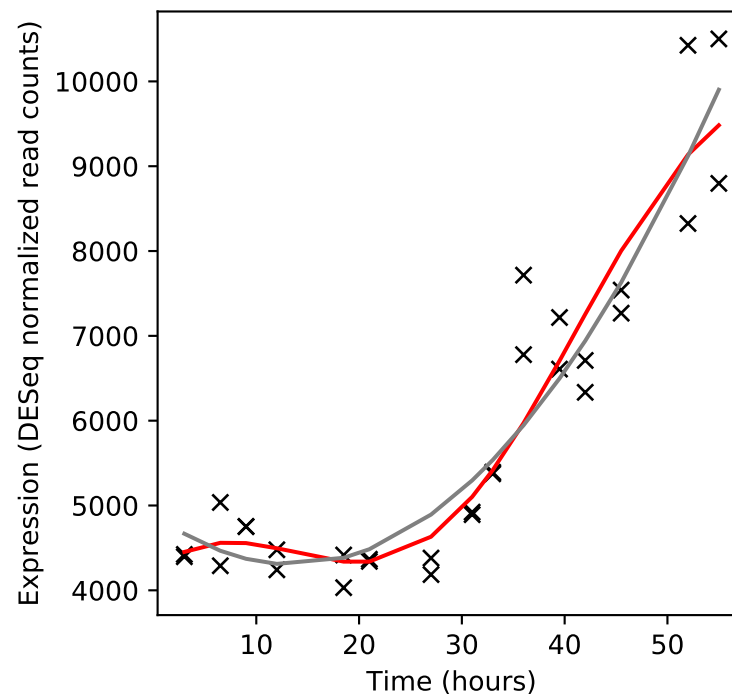
Rv3581c/ispF



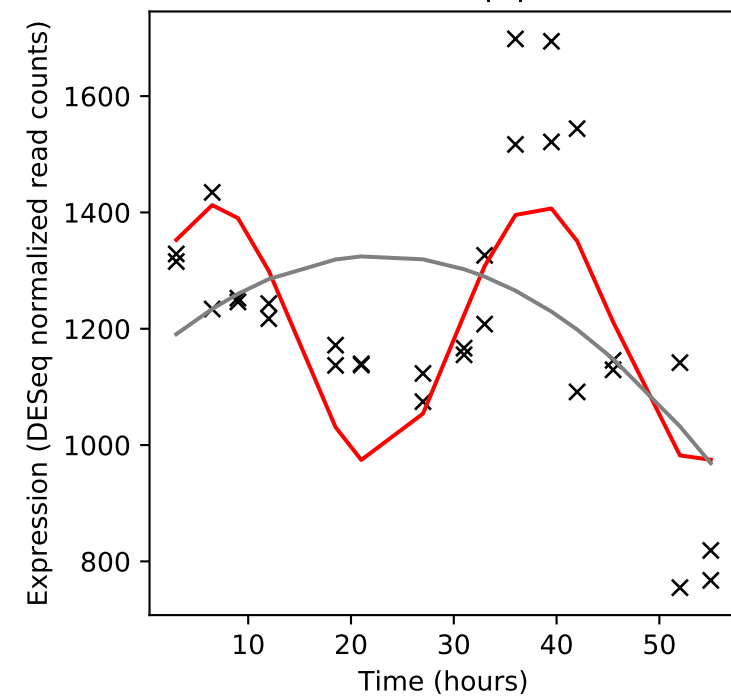
Rv3582c/ispD



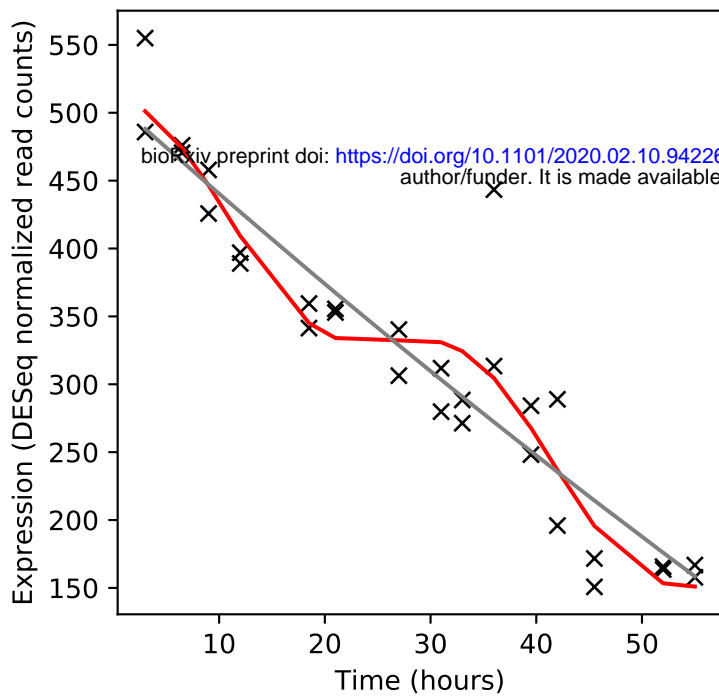
Rv3583c/-



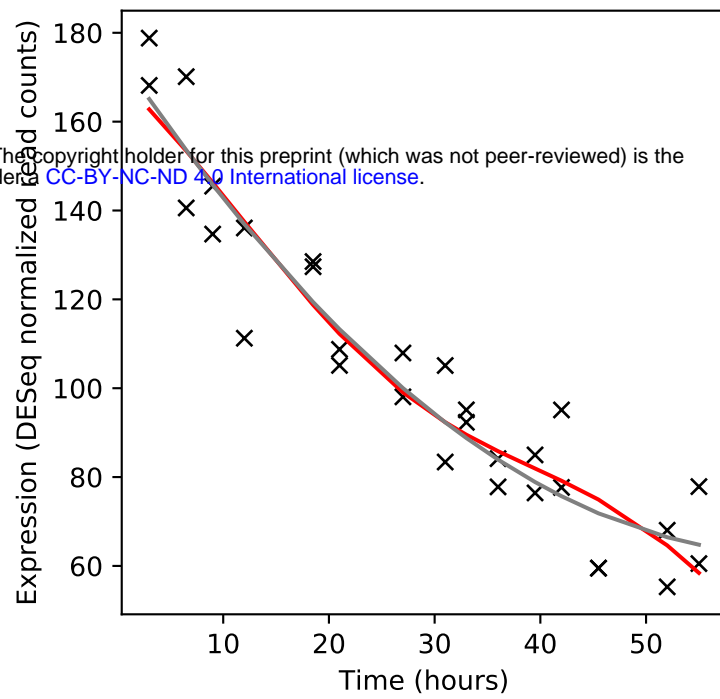
Rv3584/lpqE



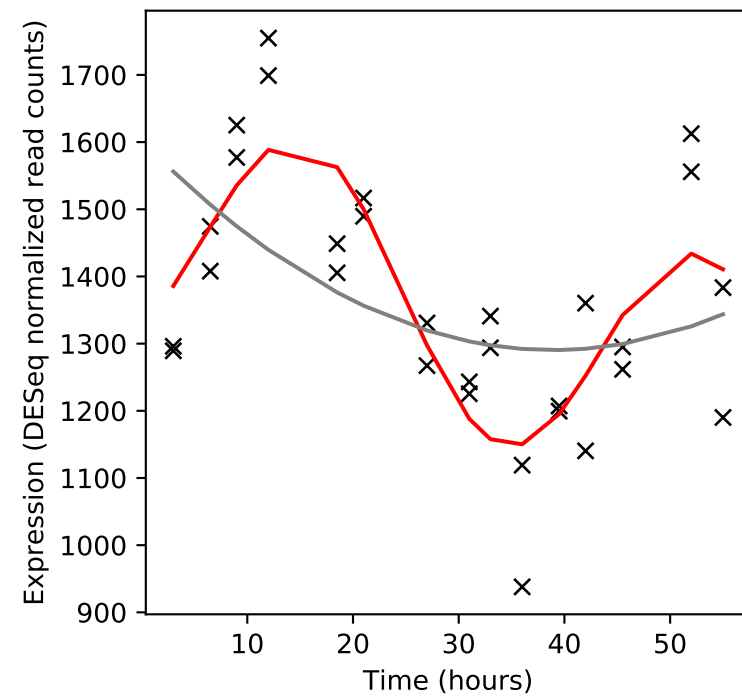
Rv3585/radA



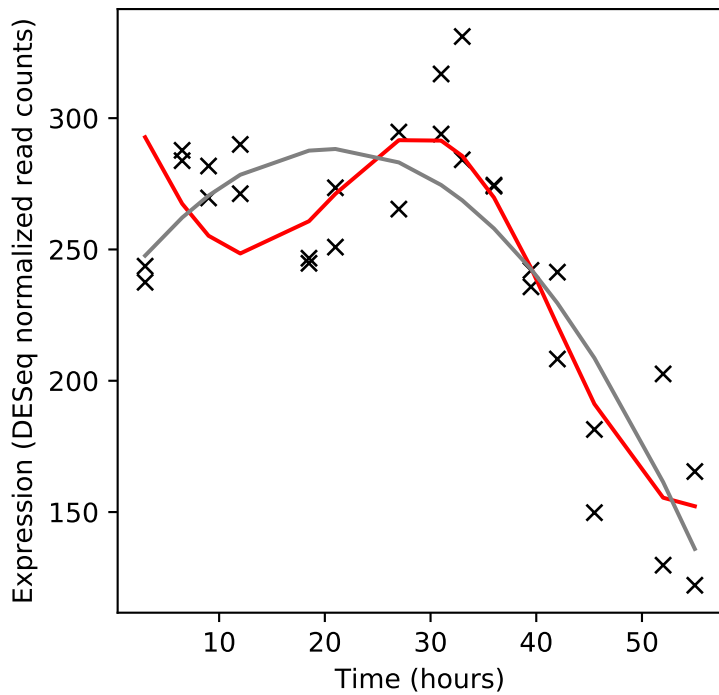
Rv3586/-



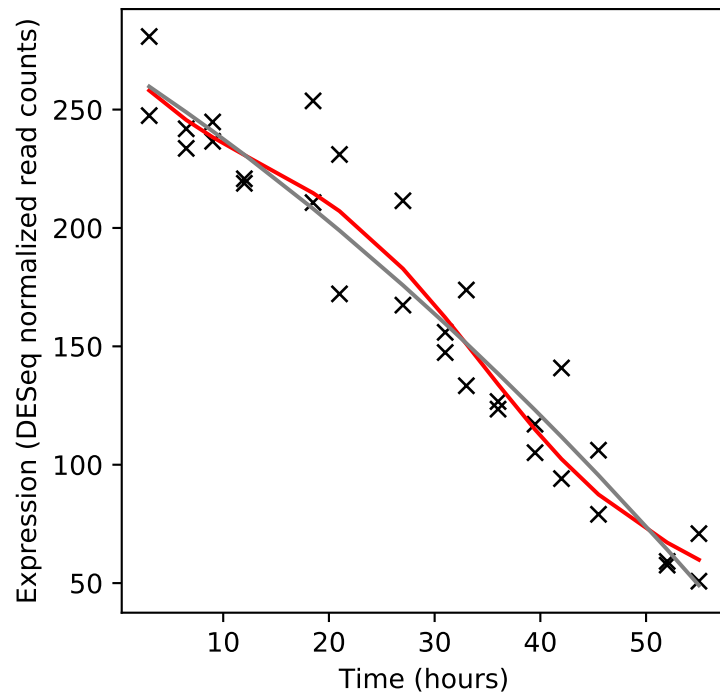
Rv3587c/-



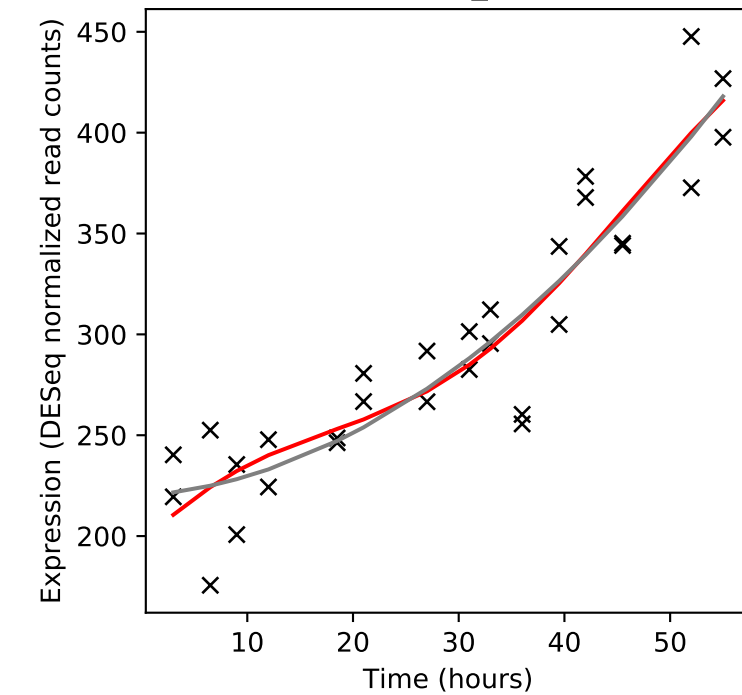
Rv3588c/canB



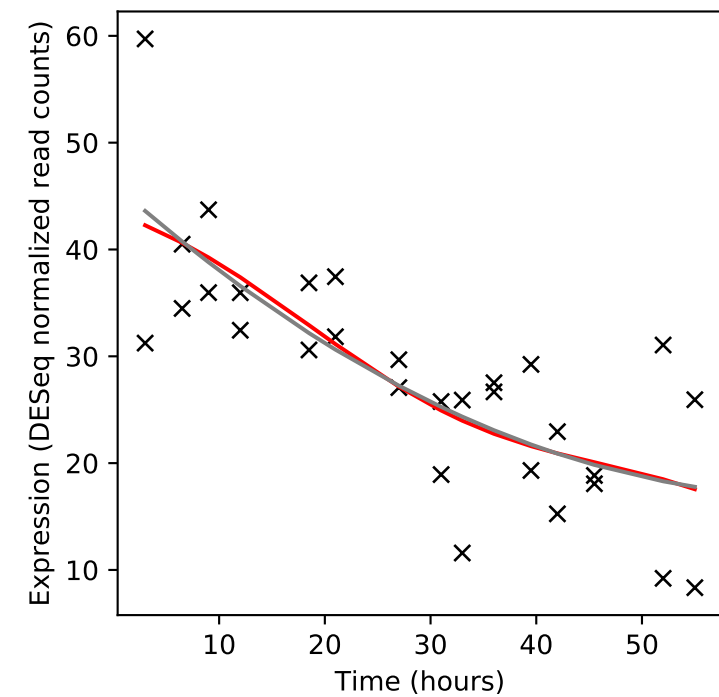
Rv3589/mutY



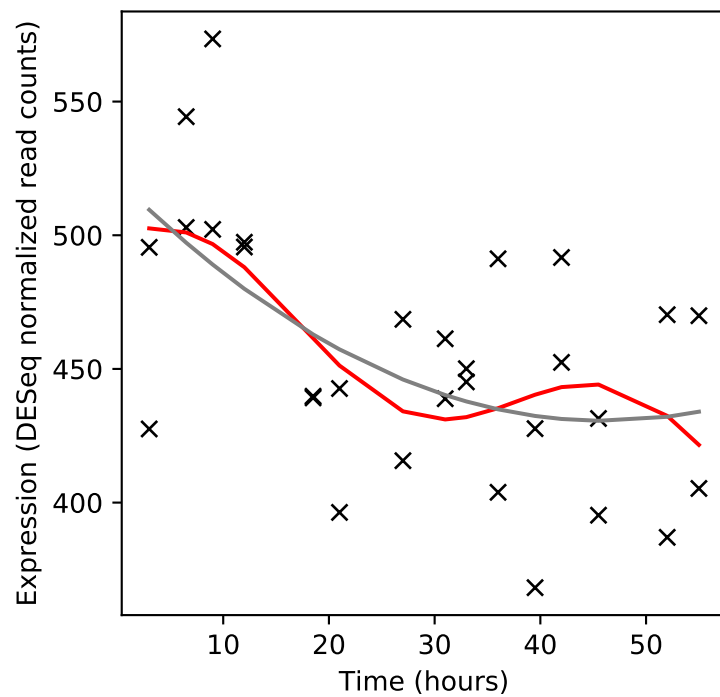
Rv3590c/PE_PGRS58



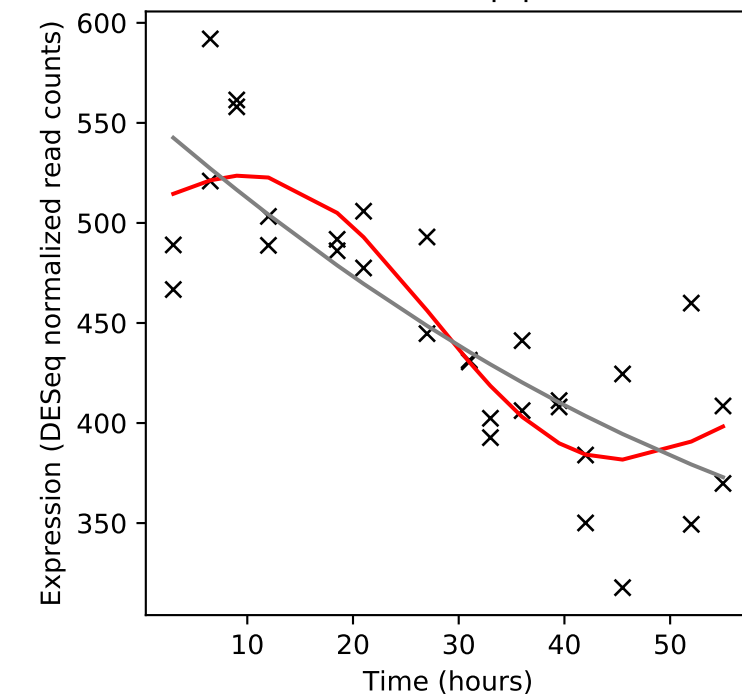
Rv3591c/-



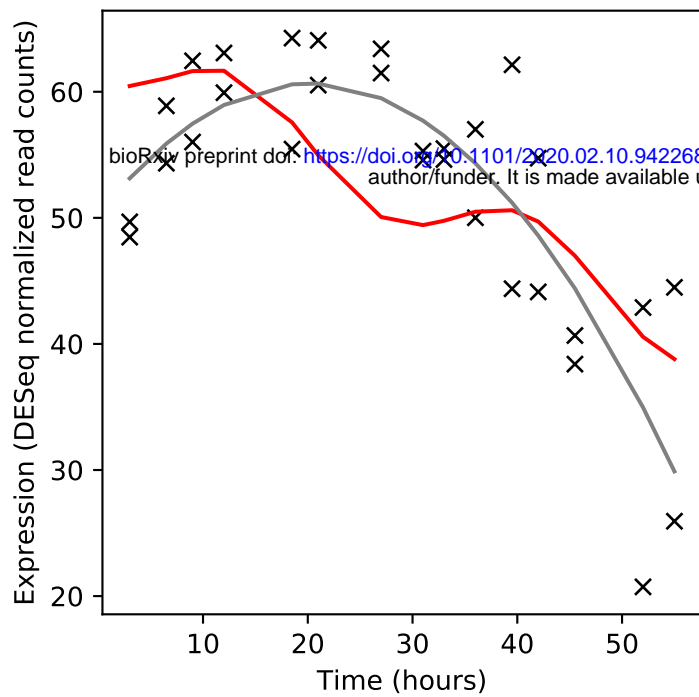
Rv3592/mhuD



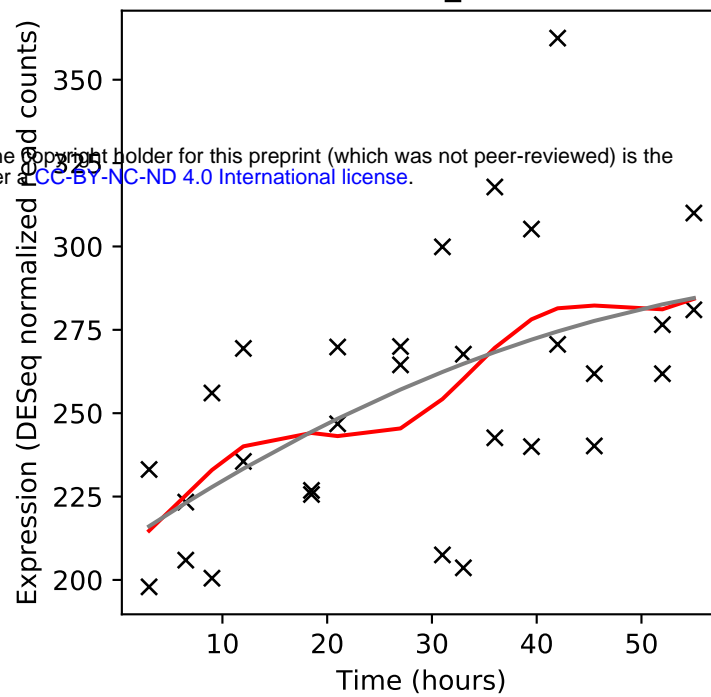
Rv3593/lpqF



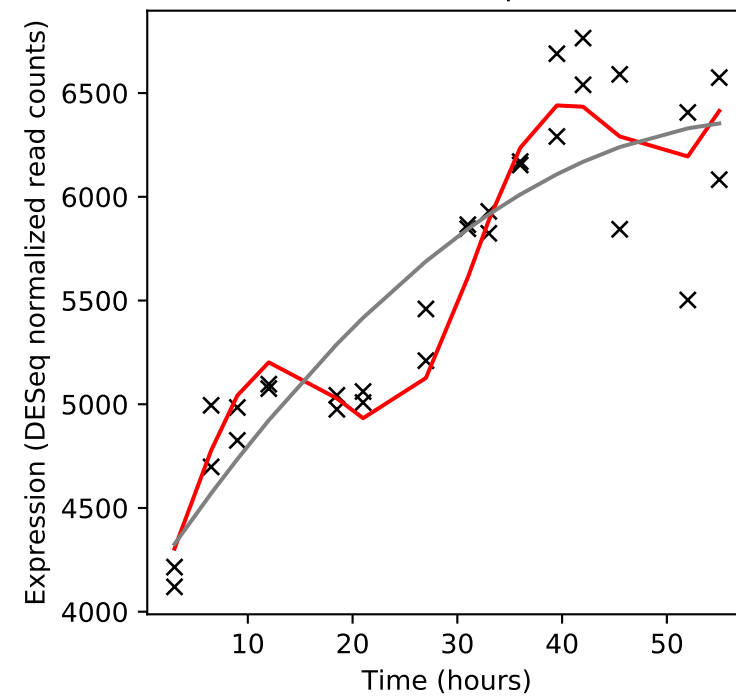
Rv3594/-



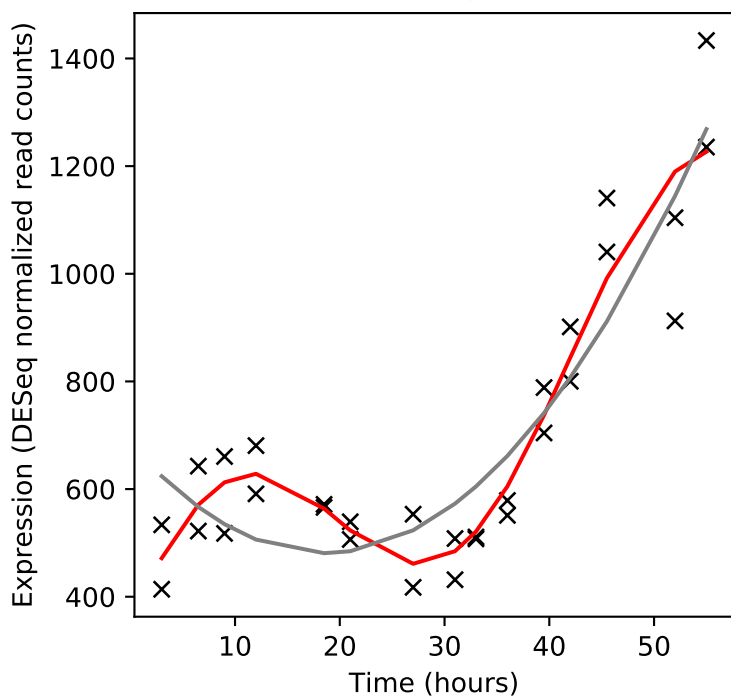
Rv3595c/PE_PGRS59



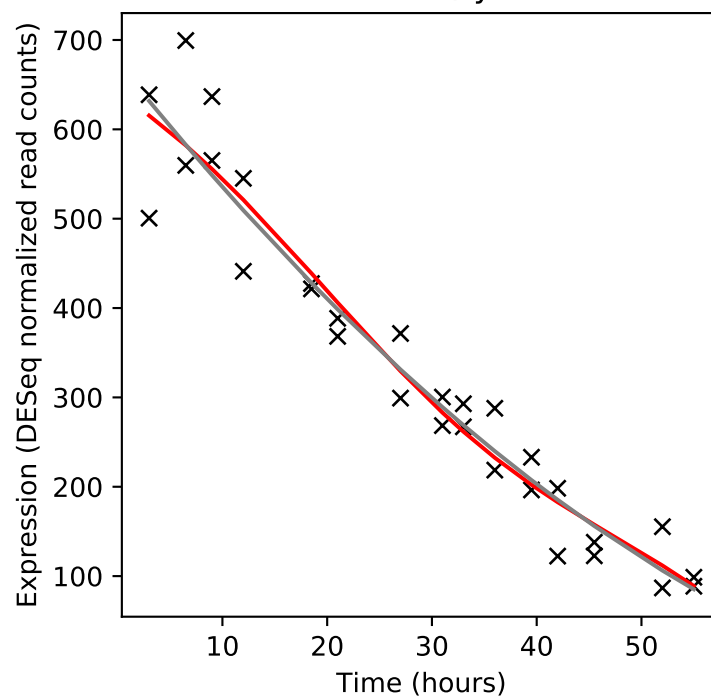
Rv3596c/clpC1



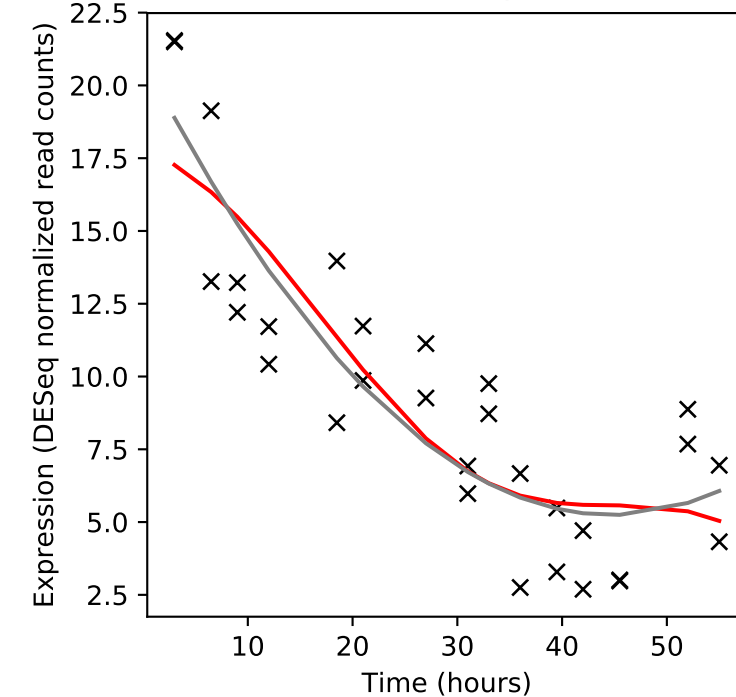
Rv3597c/lsr2



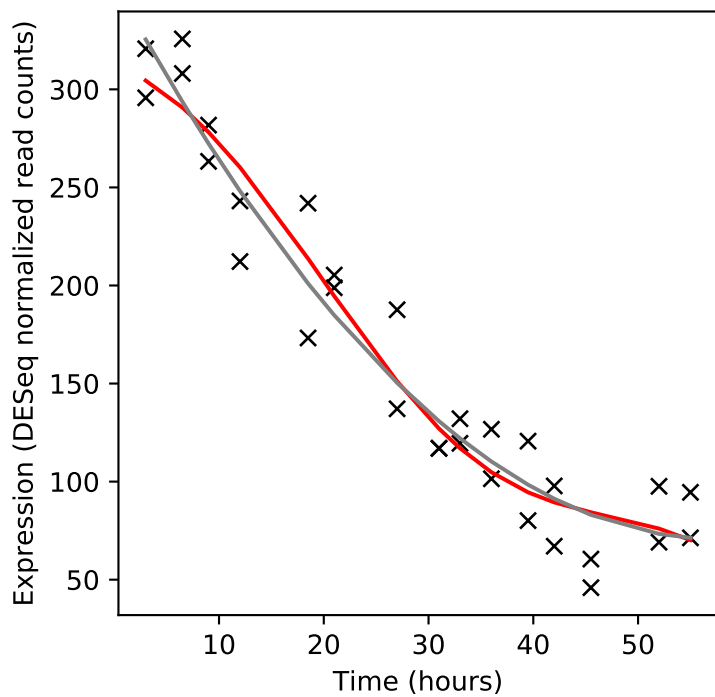
Rv3598c/lysS



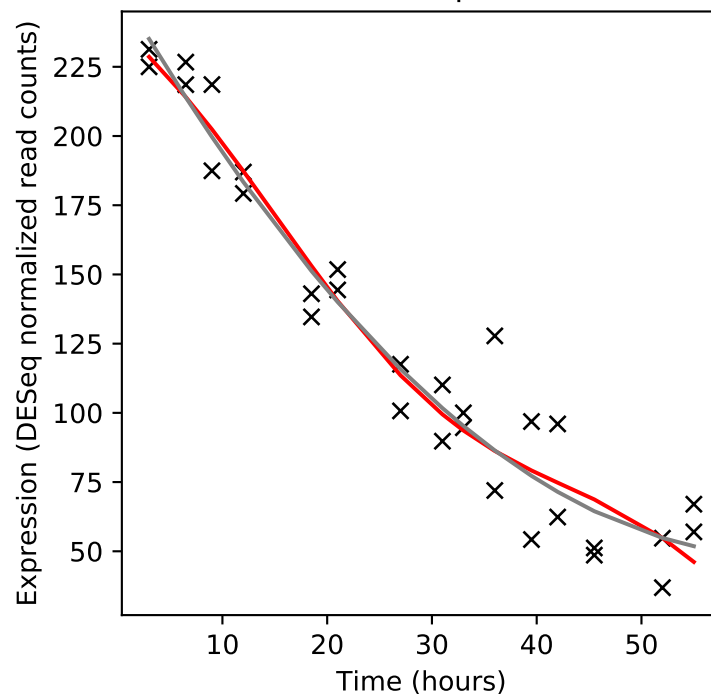
Rv3599c/-



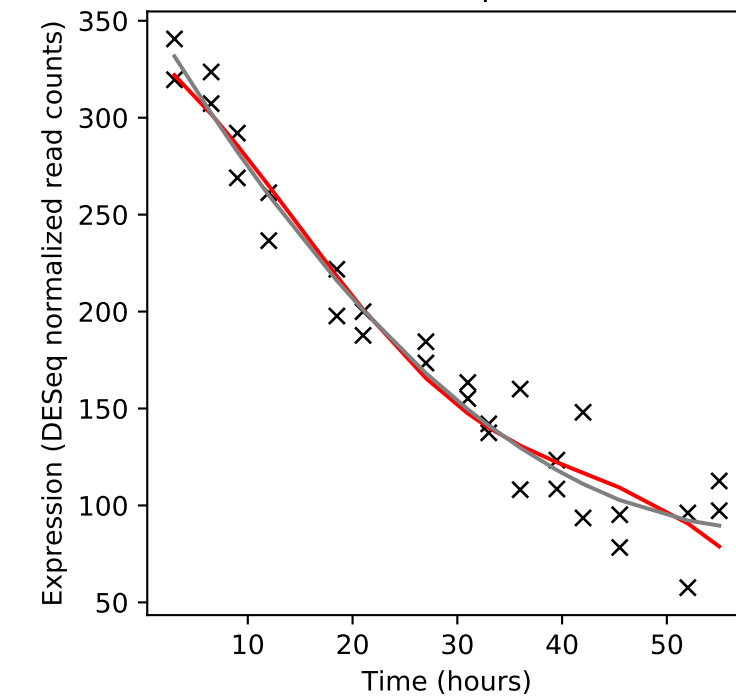
Rv3600c/-



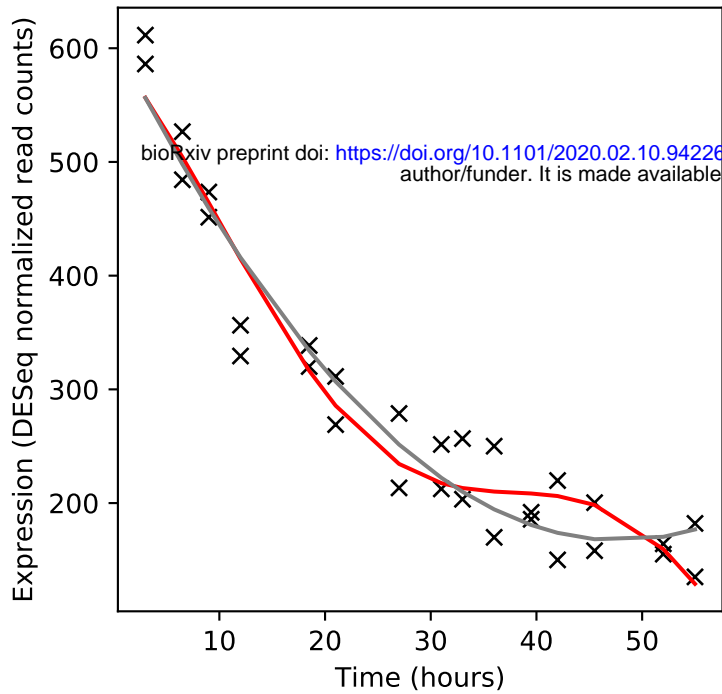
Rv3601c/panD



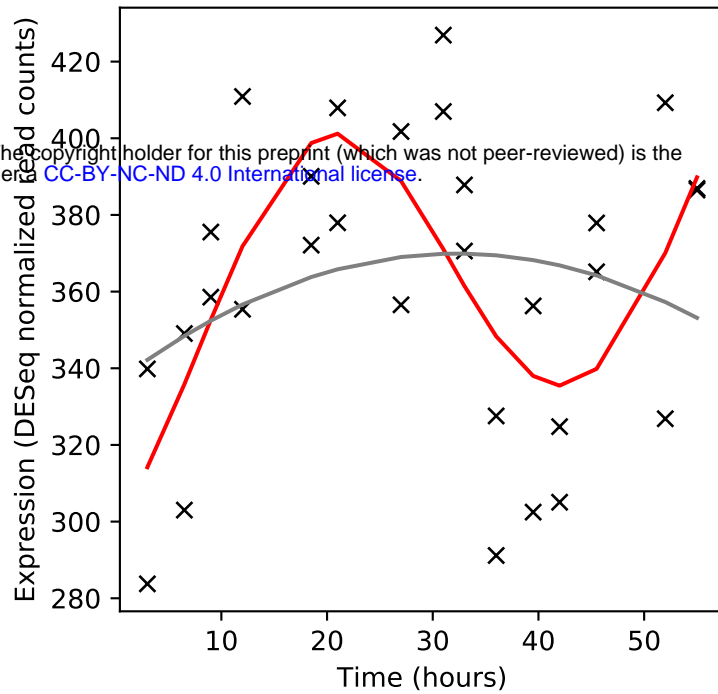
Rv3602c/panC



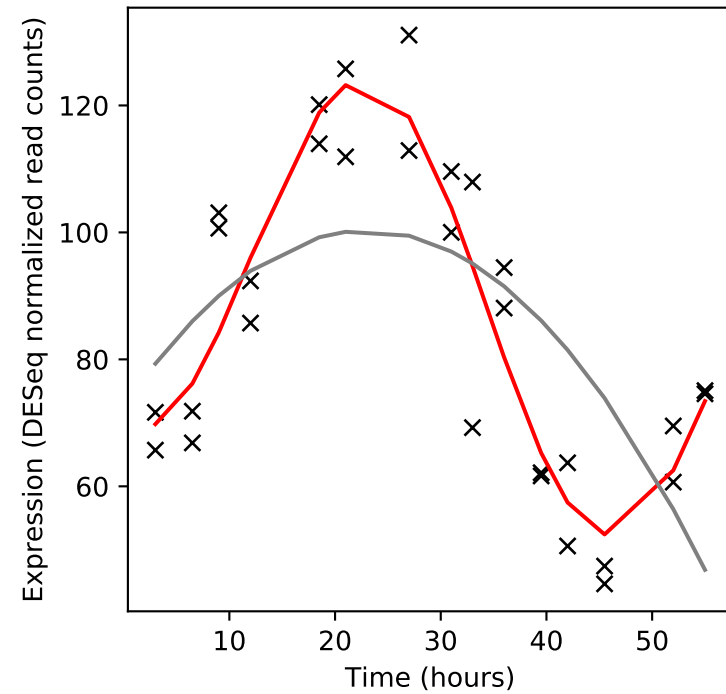
Rv3603c/-



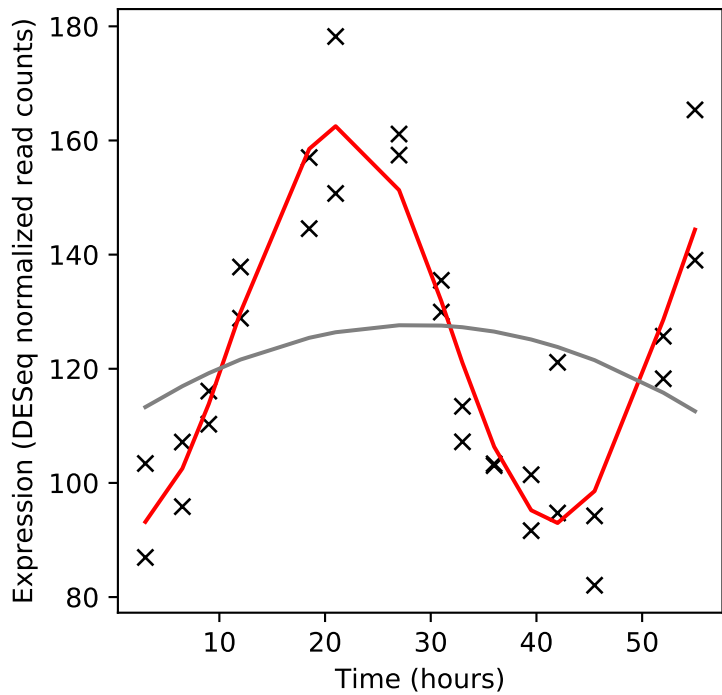
Rv3604c/-



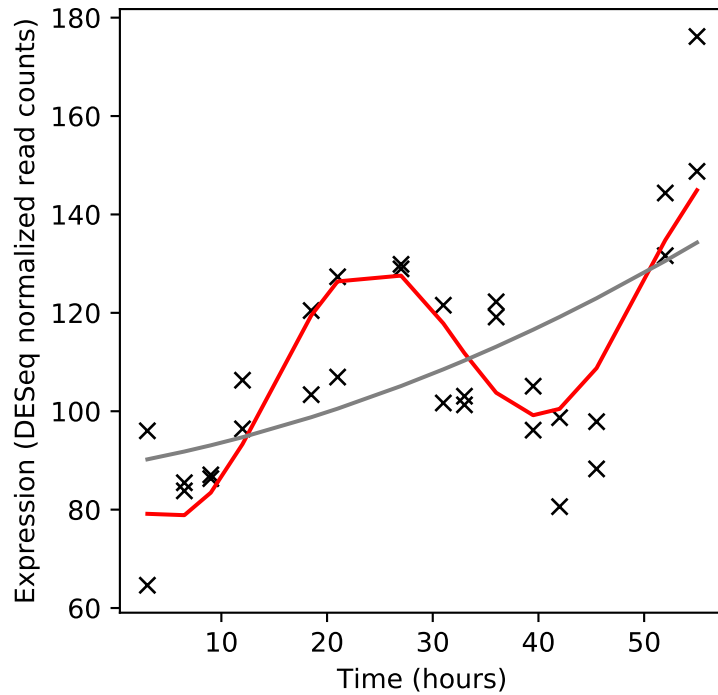
Rv3605c/-



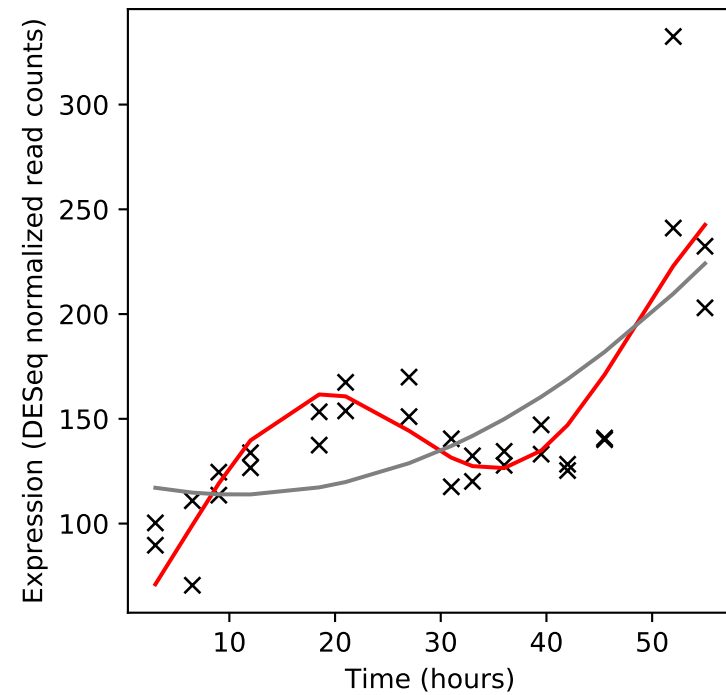
Rv3606c/foIK



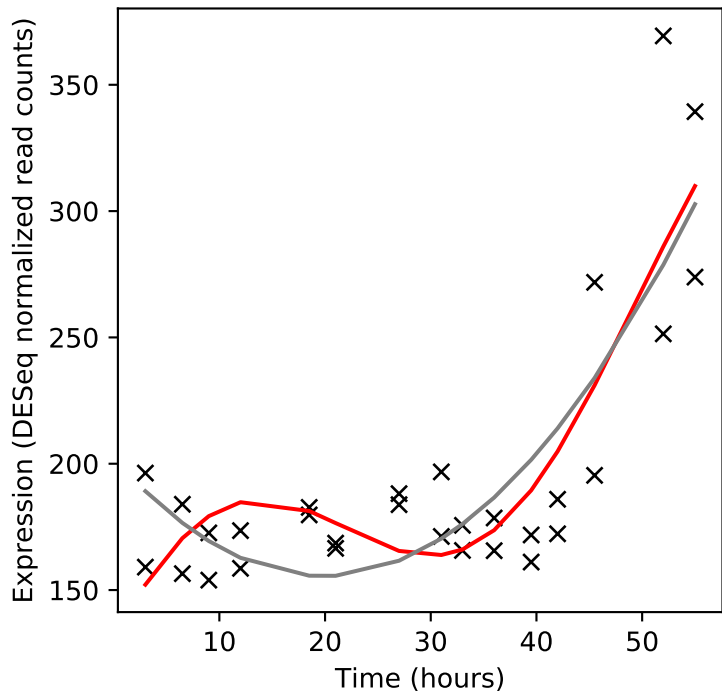
Rv3607c/foIB



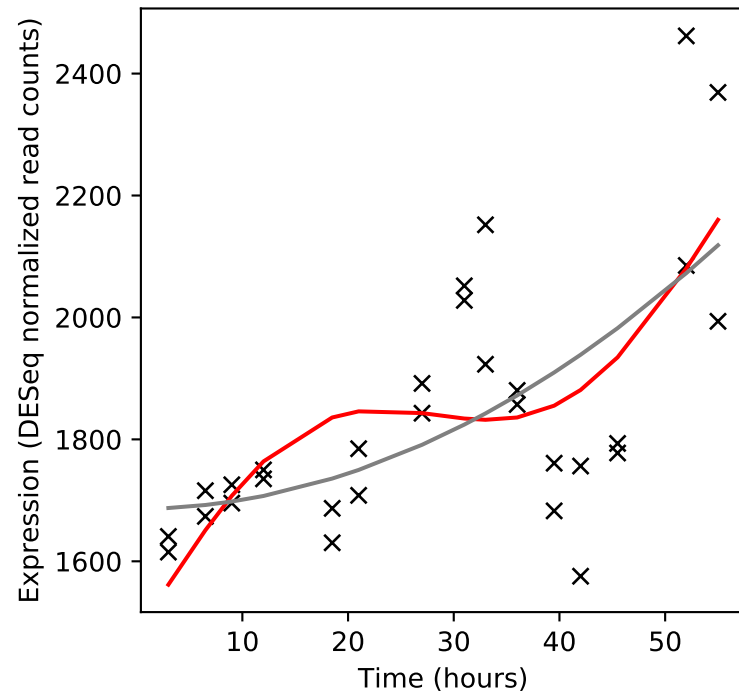
Rv3608c/foIP1



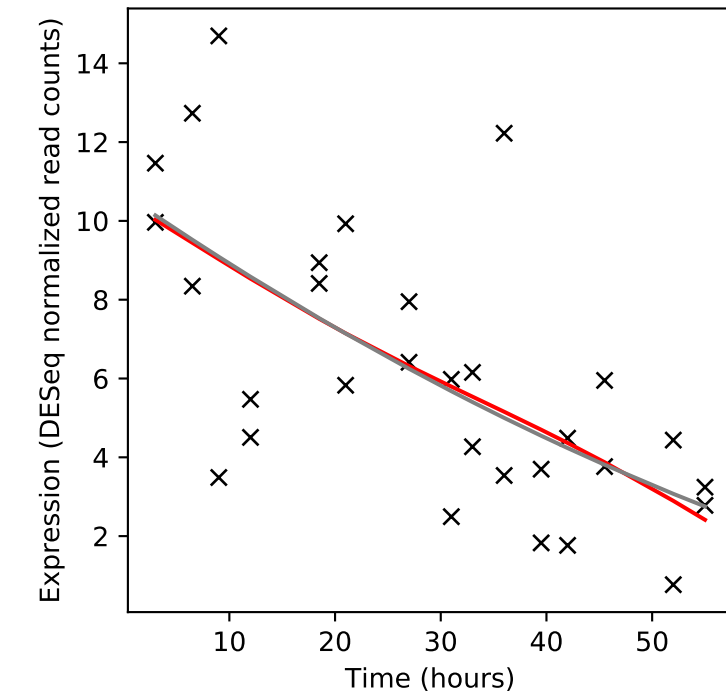
Rv3609c/foIE

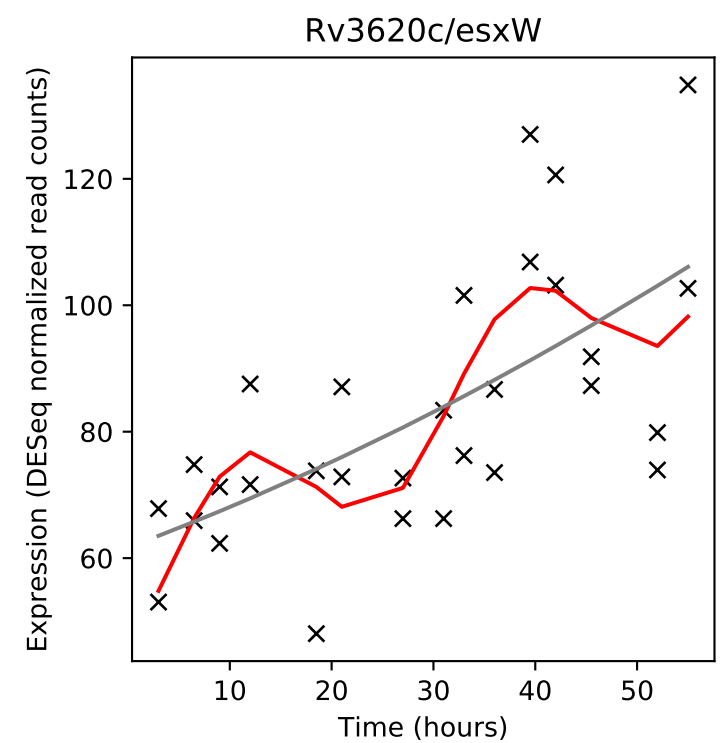
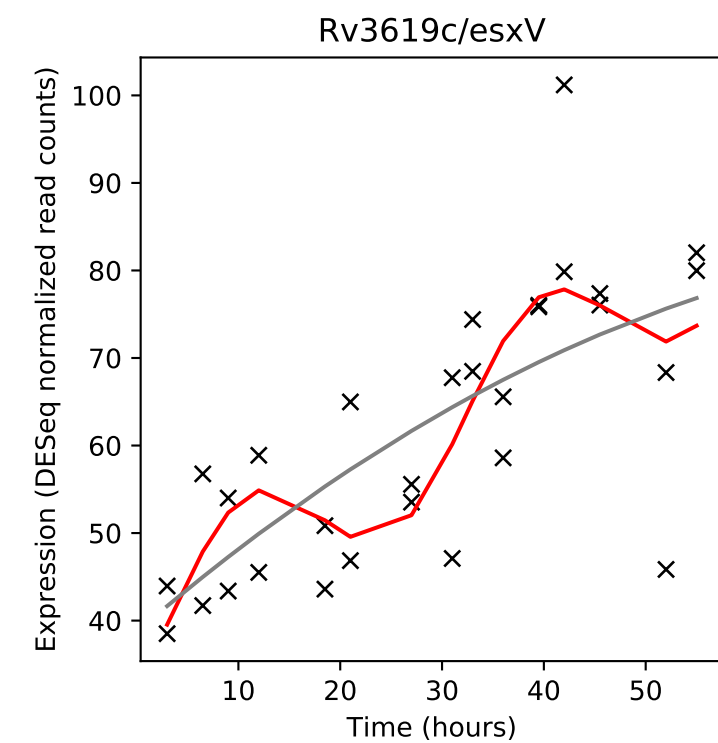
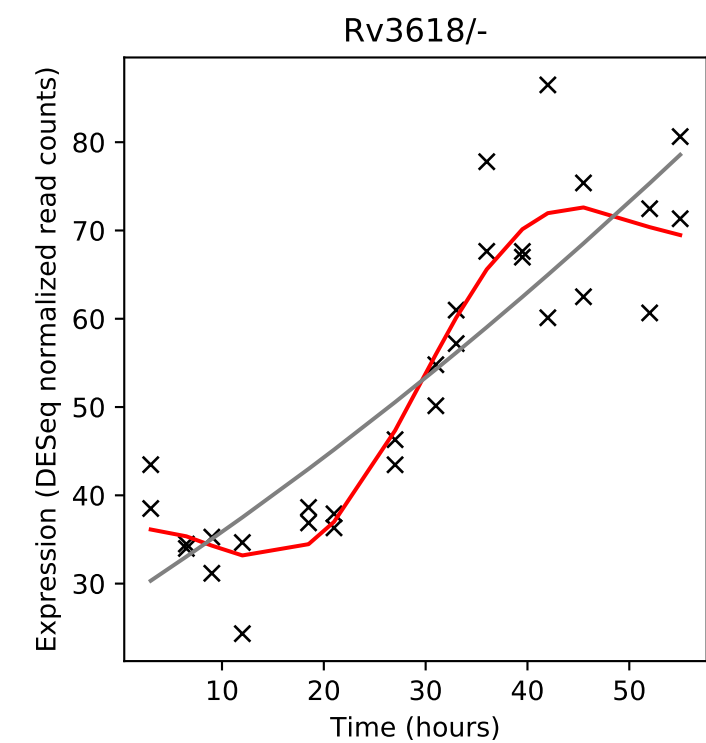
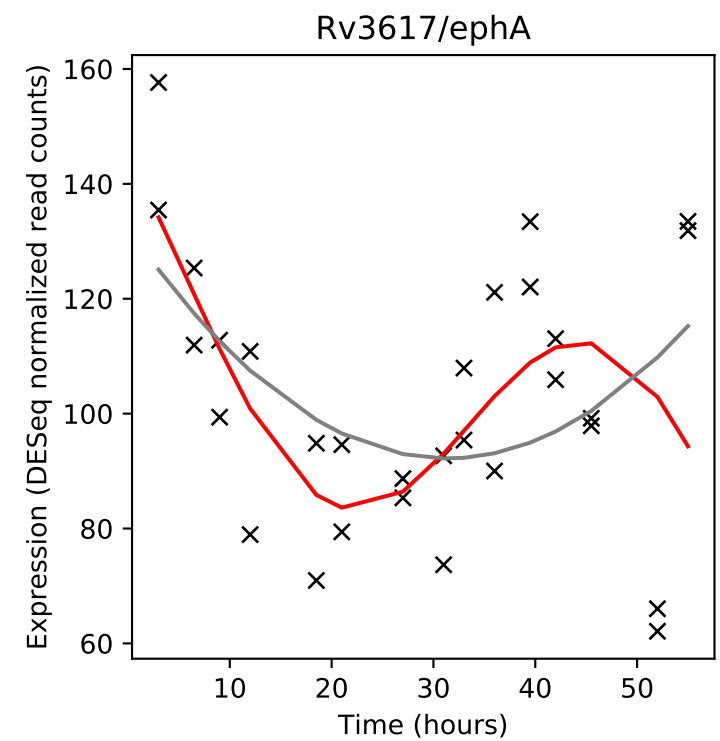
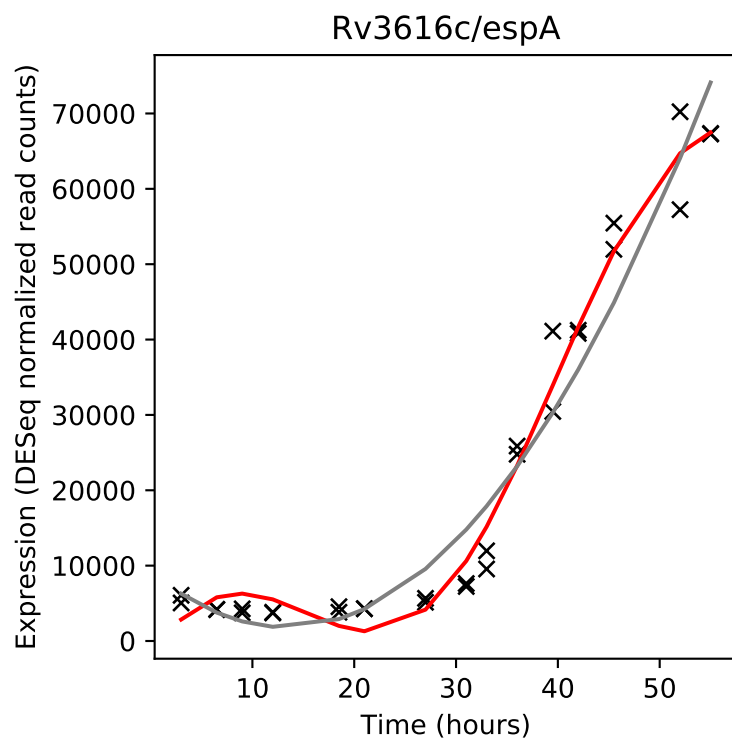
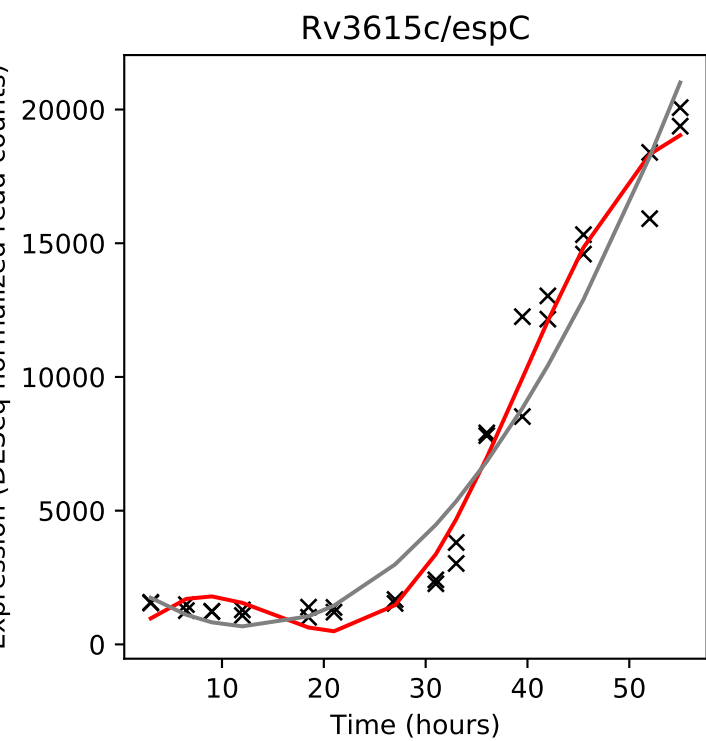
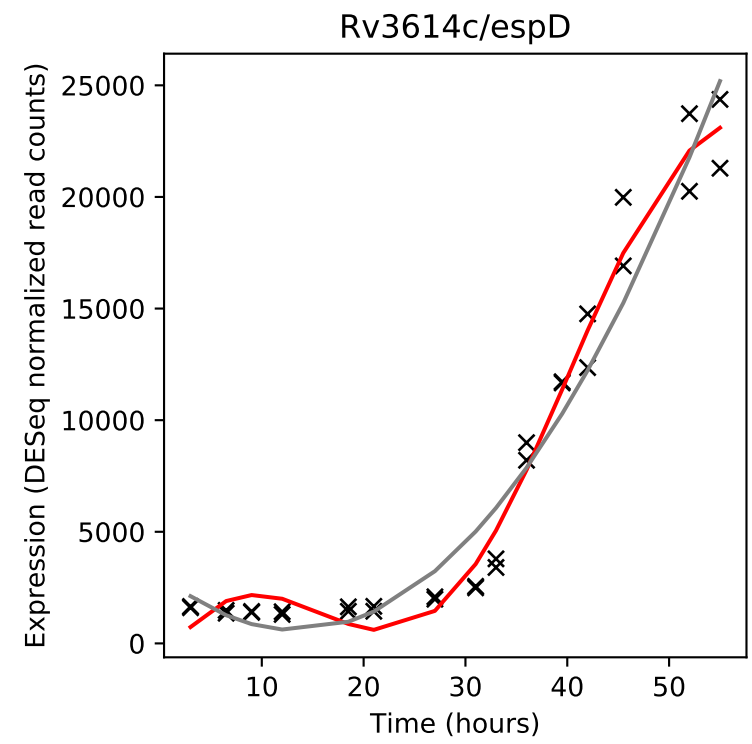
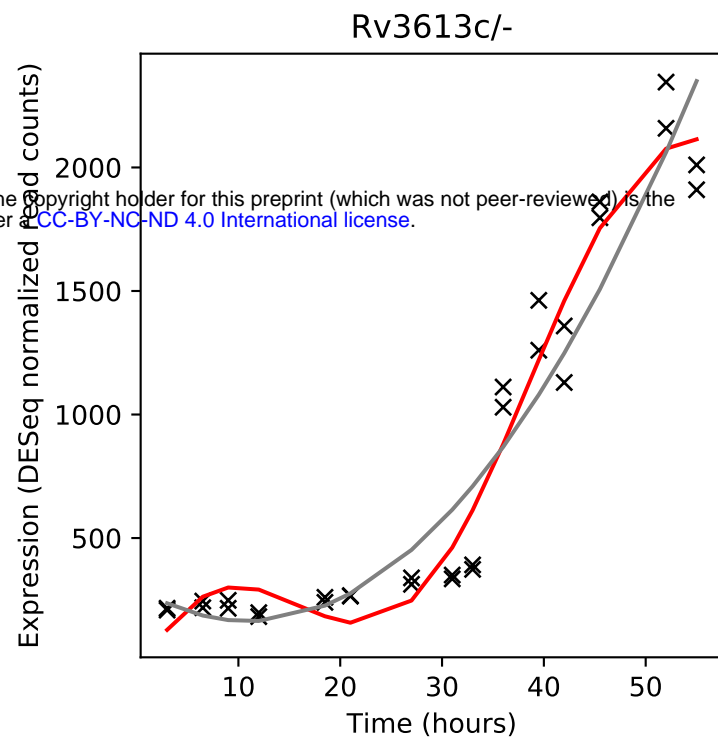
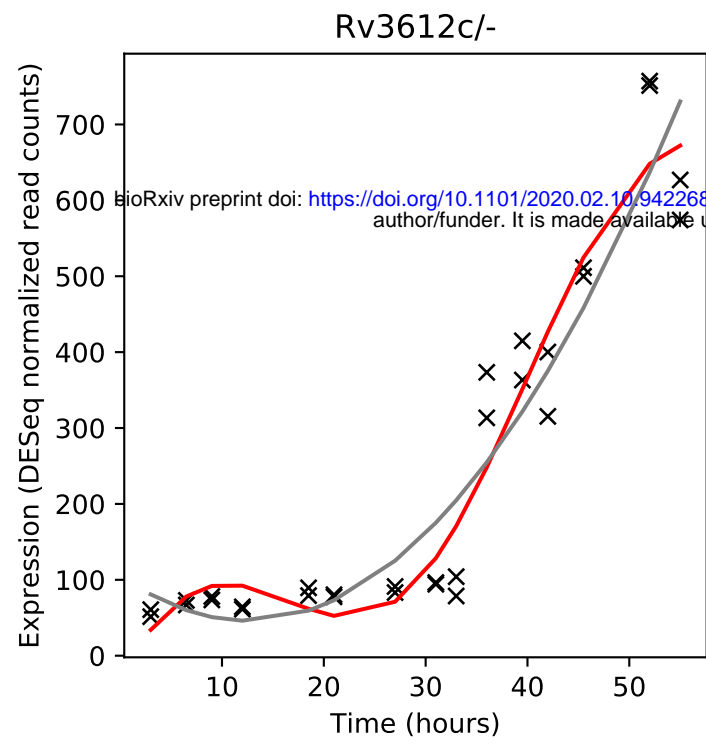


Rv3610c/ftsH



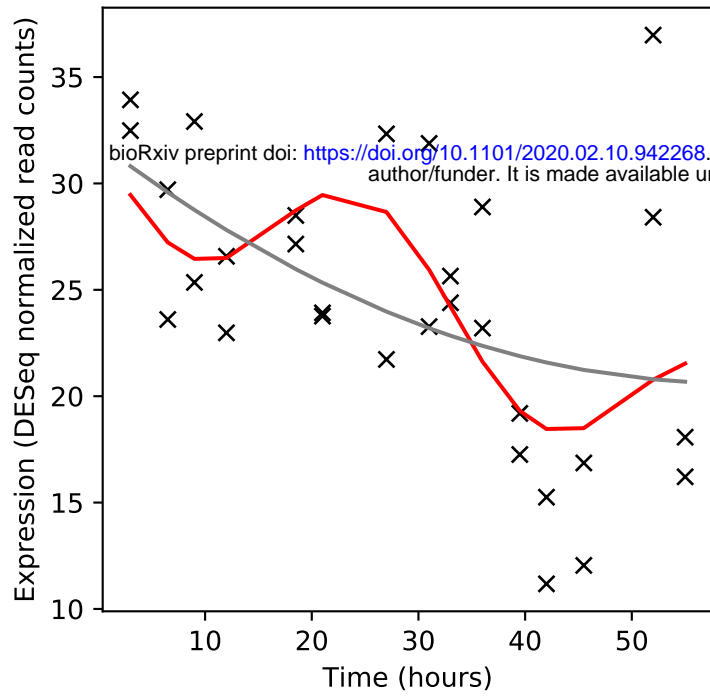
Rv3611/-



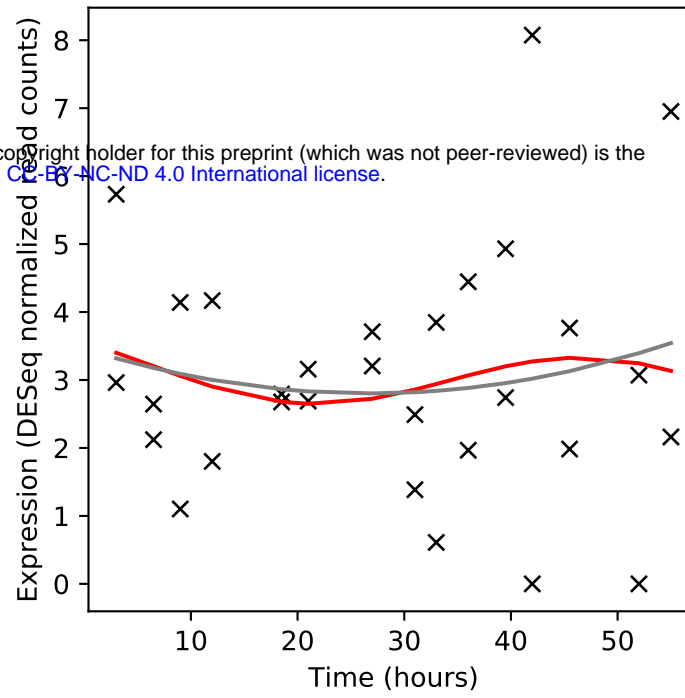


BioRxiv preprint doi: <https://doi.org/10.1101/2020.02.10.942268>; this version posted February 10, 2020. The copyright holder for this preprint (which was not peer-reviewed) is the author/funder. It is made available under aCC-BY-NC-ND 4.0 International license.

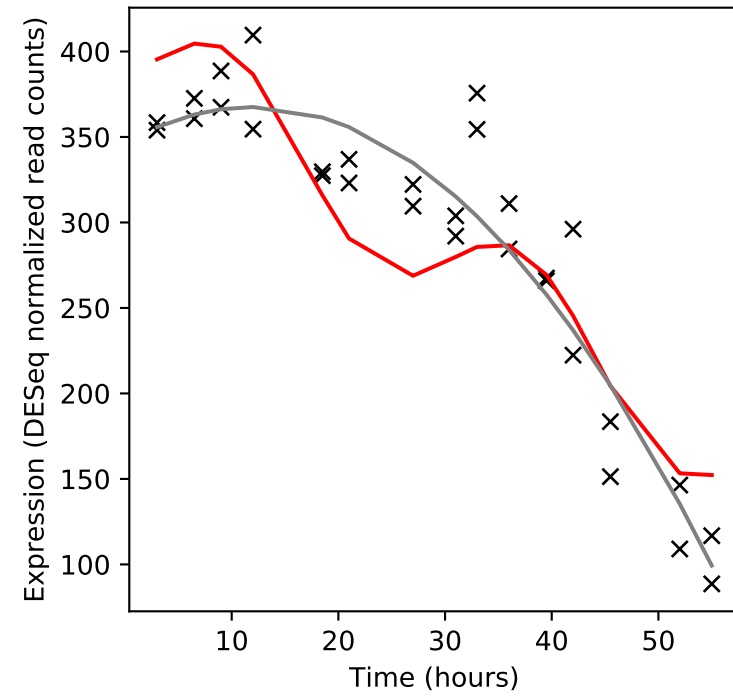
Rv3621c/PPE65



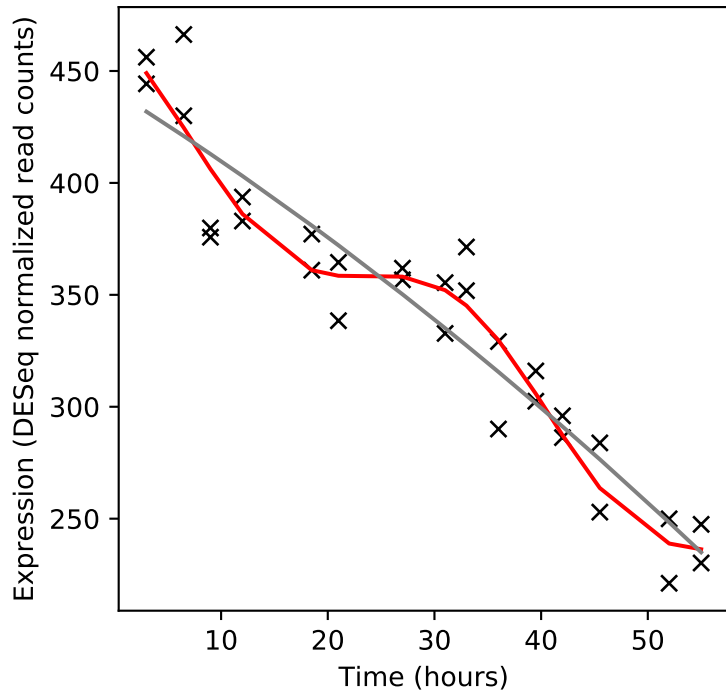
Rv3622c/PE32



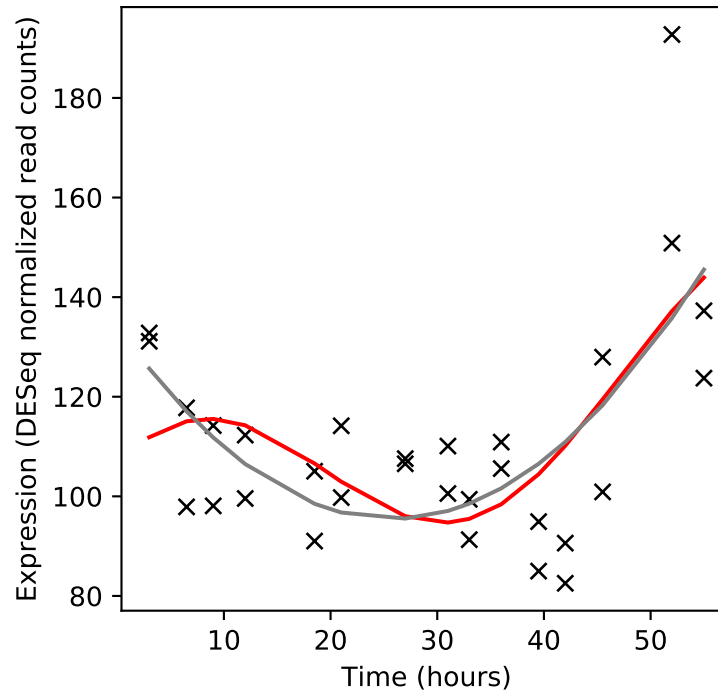
Rv3623c/lpqG



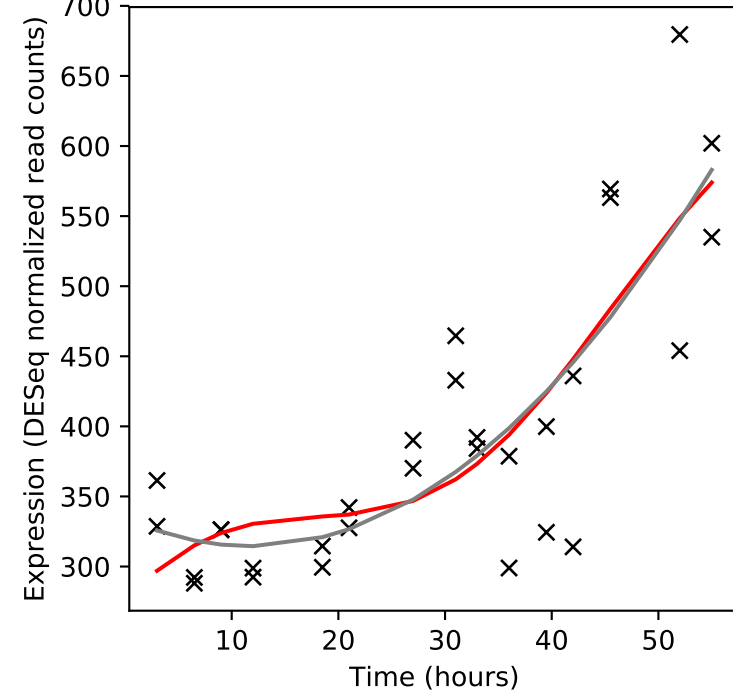
Rv3624c/hpt



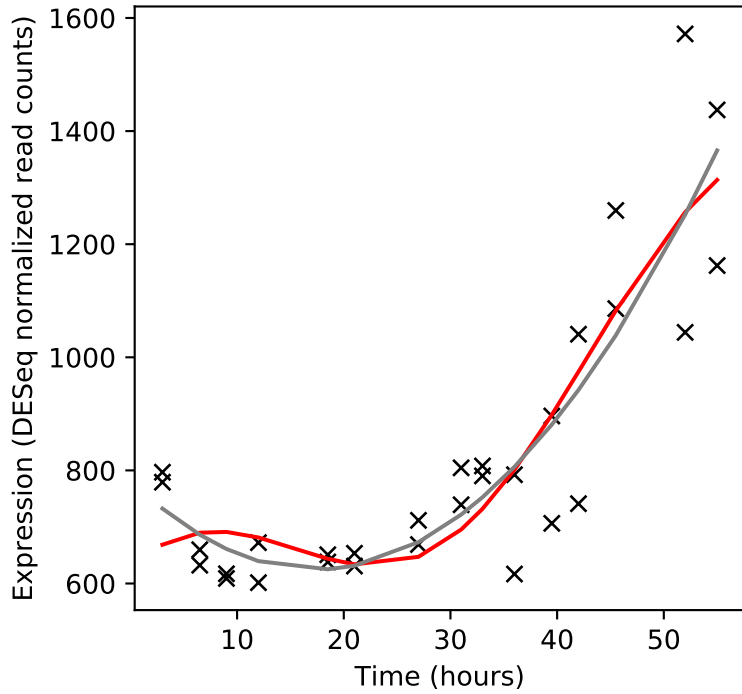
Rv3625c/mesJ



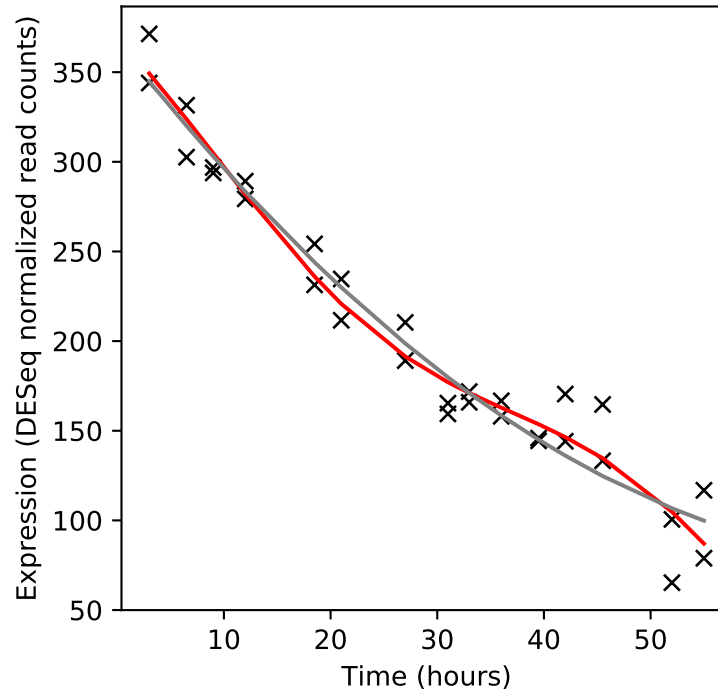
Rv3626c/-



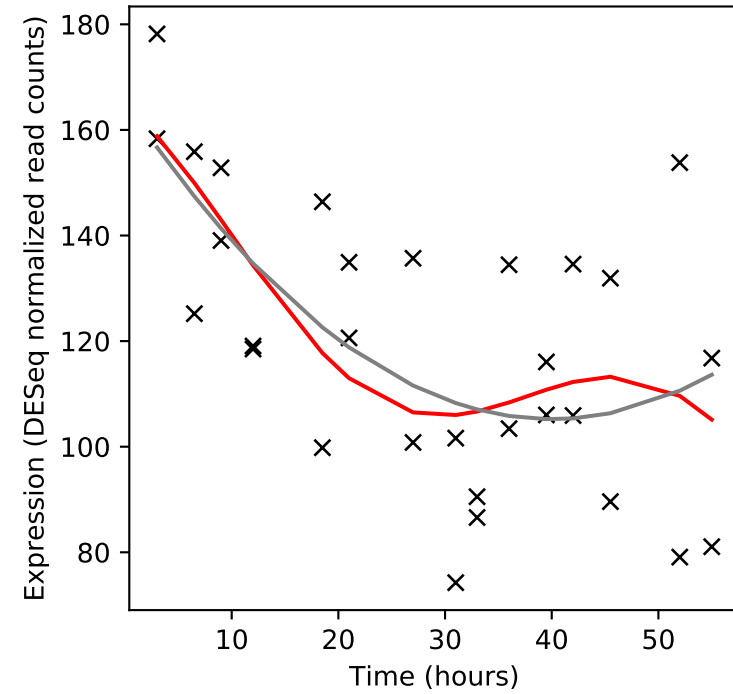
Rv3627c/-



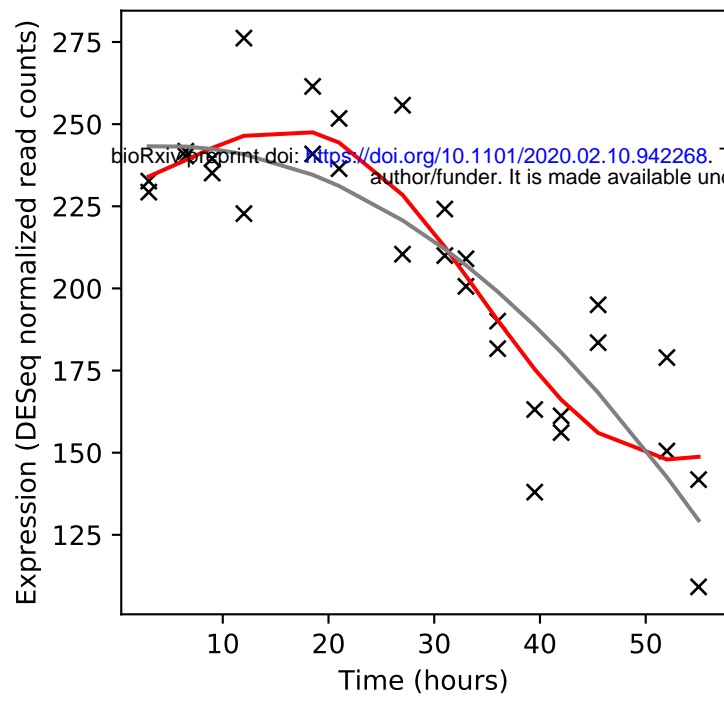
Rv3628c/ppa



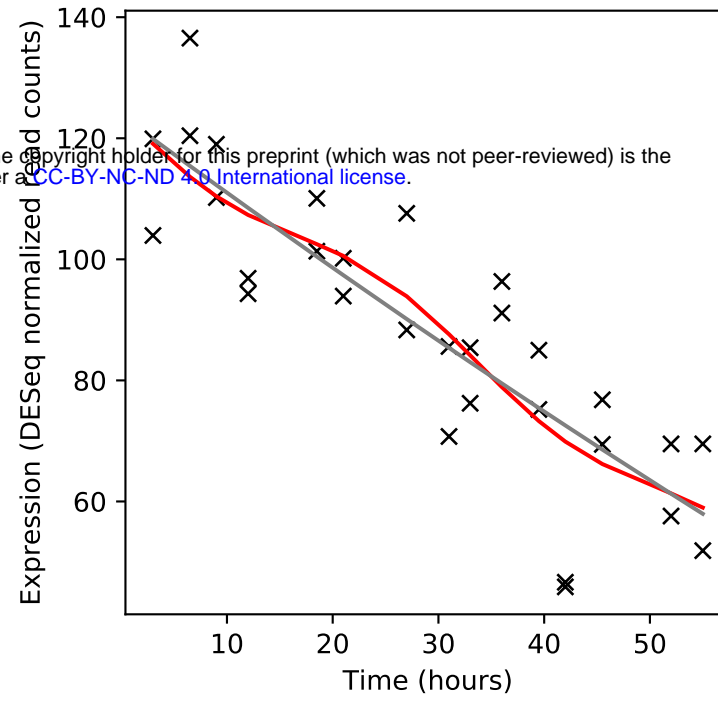
Rv3629c/-



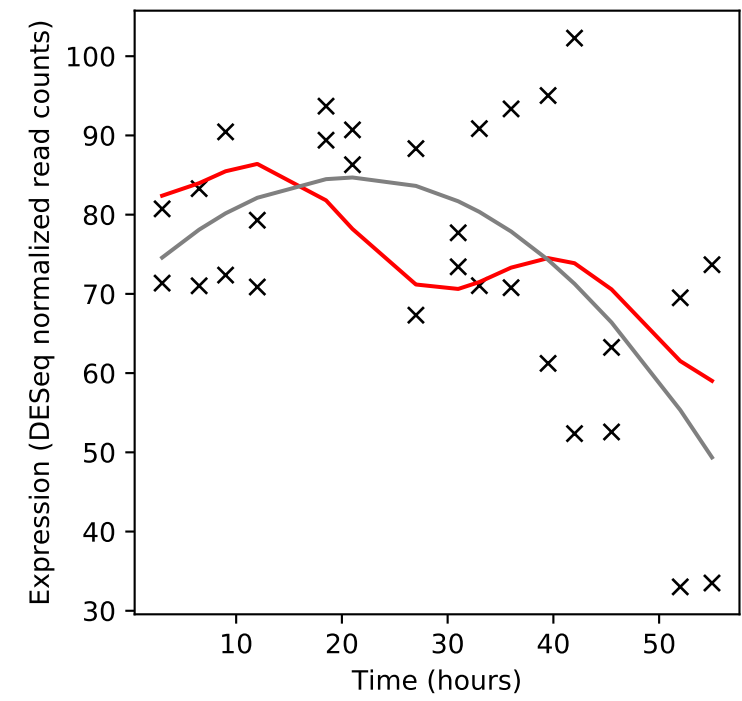
Rv3630/-



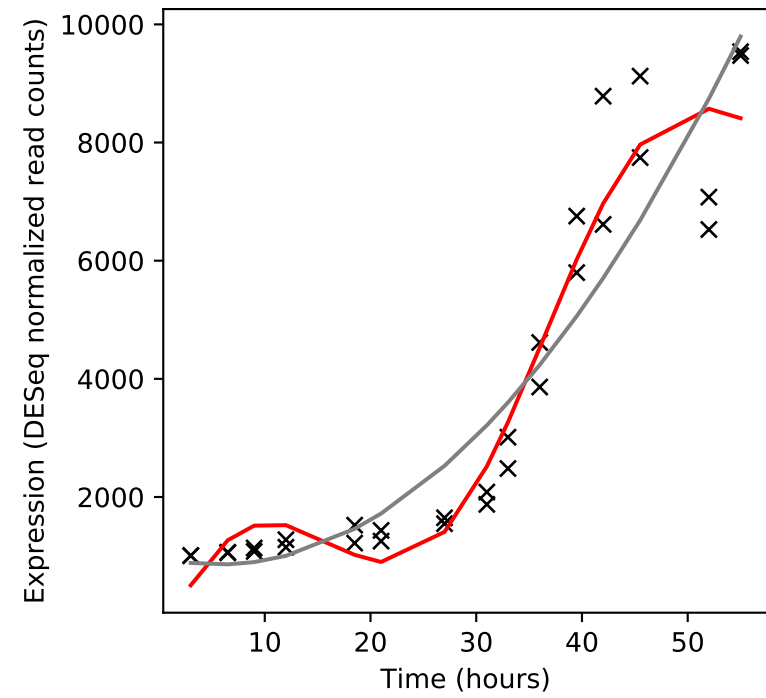
Rv3631/-



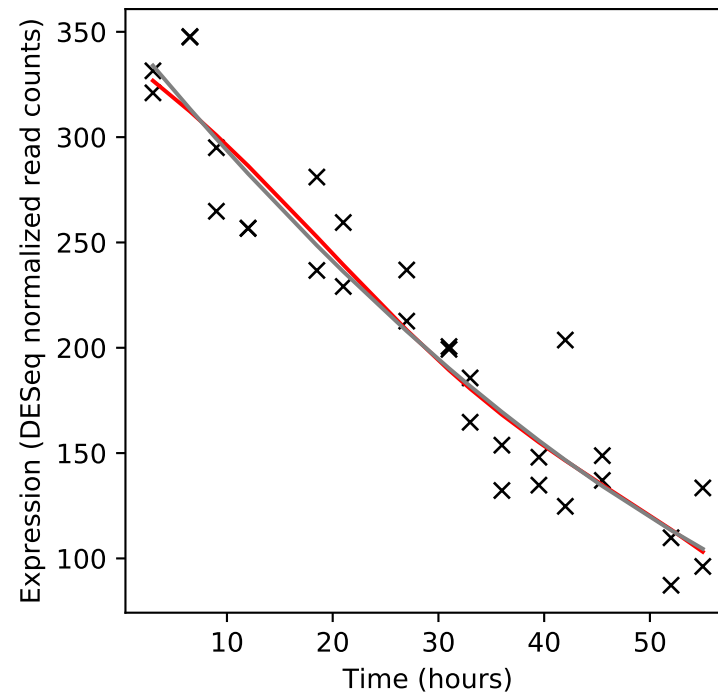
Rv3632/-



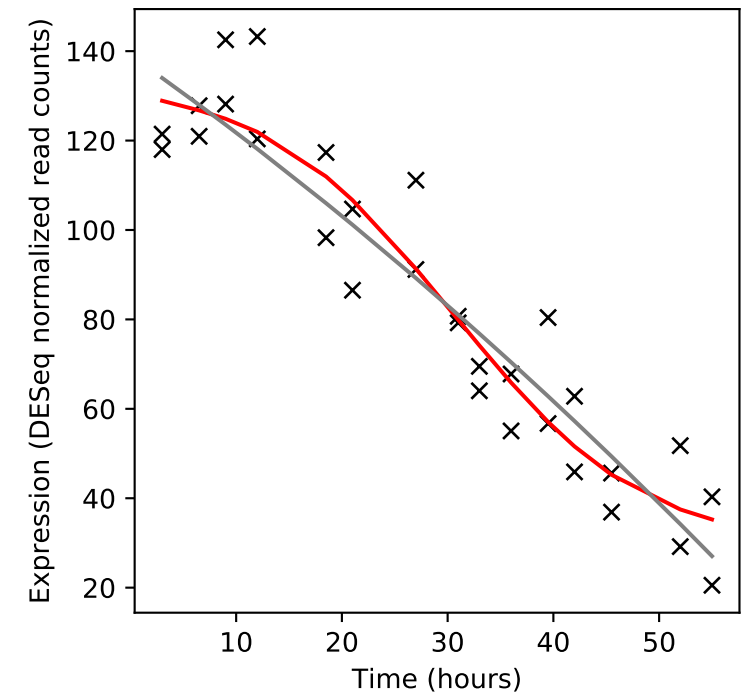
Rv3633/-



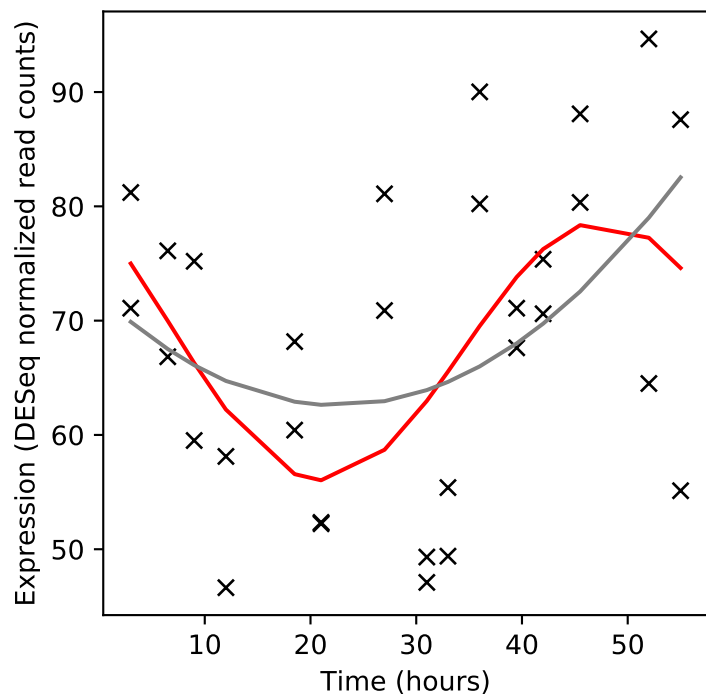
Rv3634c/galE1



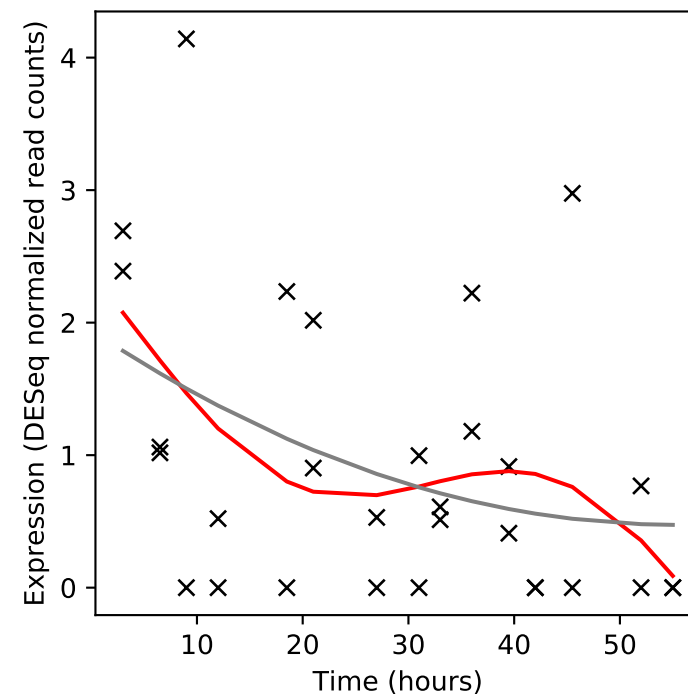
Rv3635/-



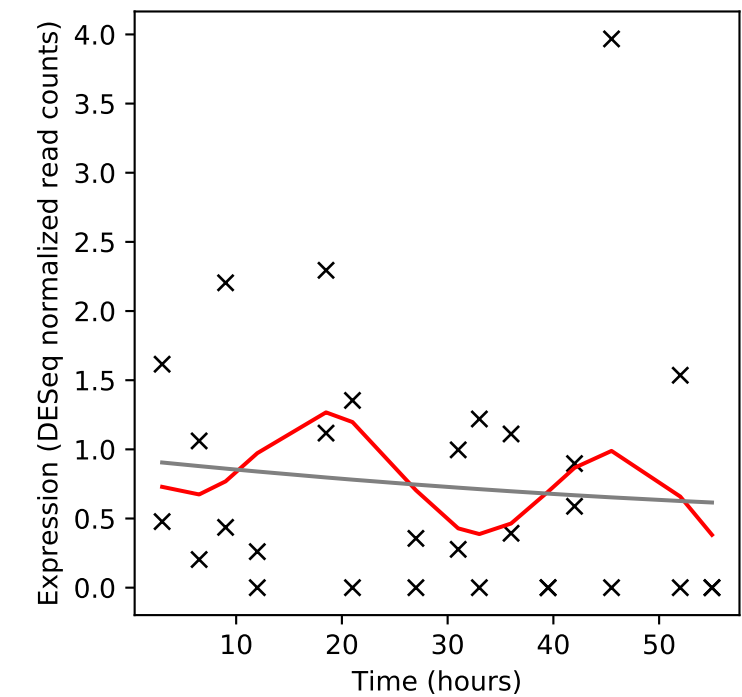
Rv3636/-



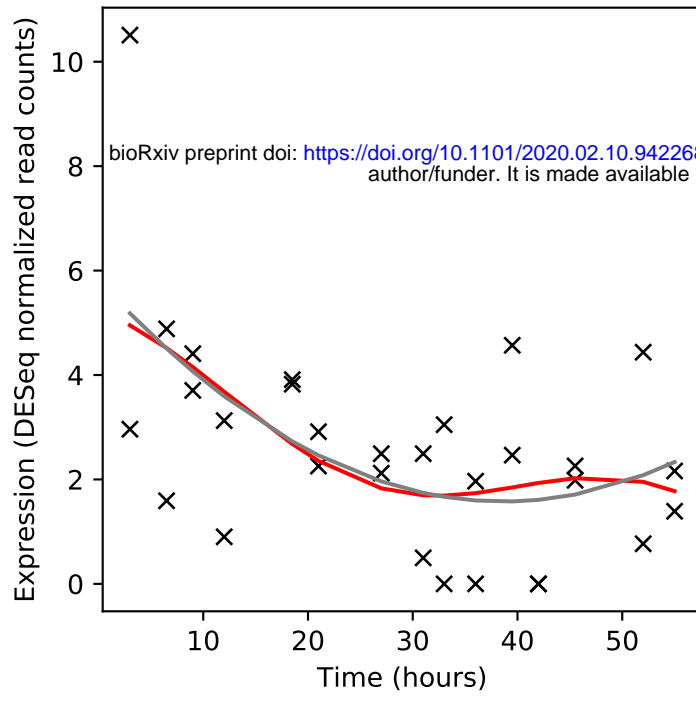
Rv3637/-



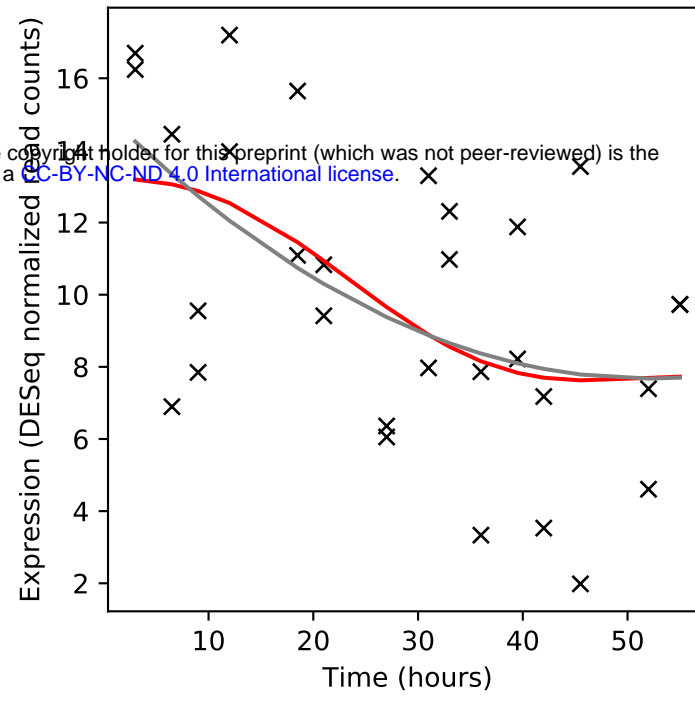
Rv3638/-



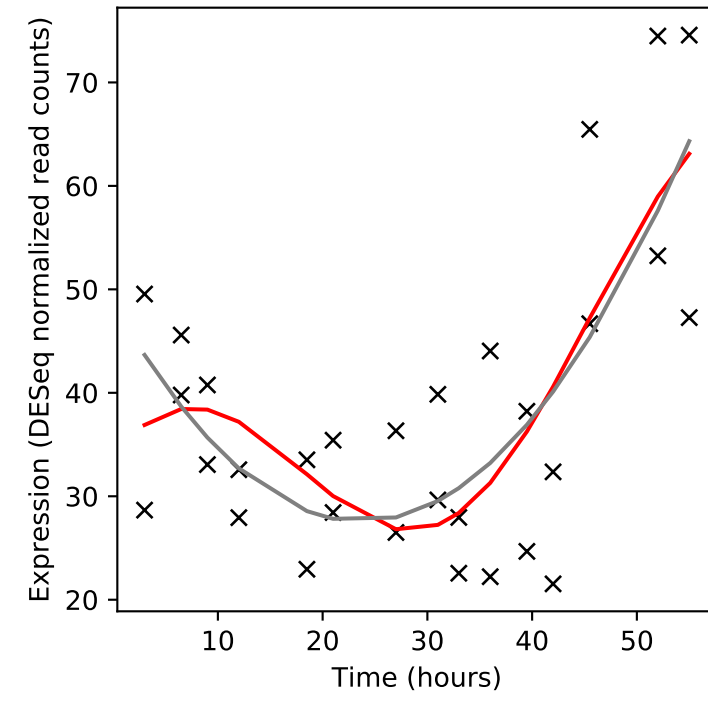
Rv3639c/-



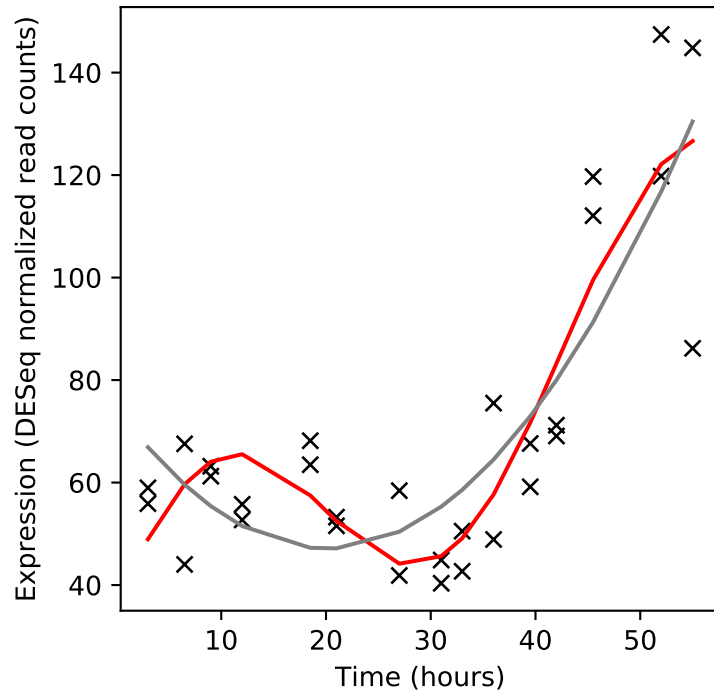
Rv3640c/-



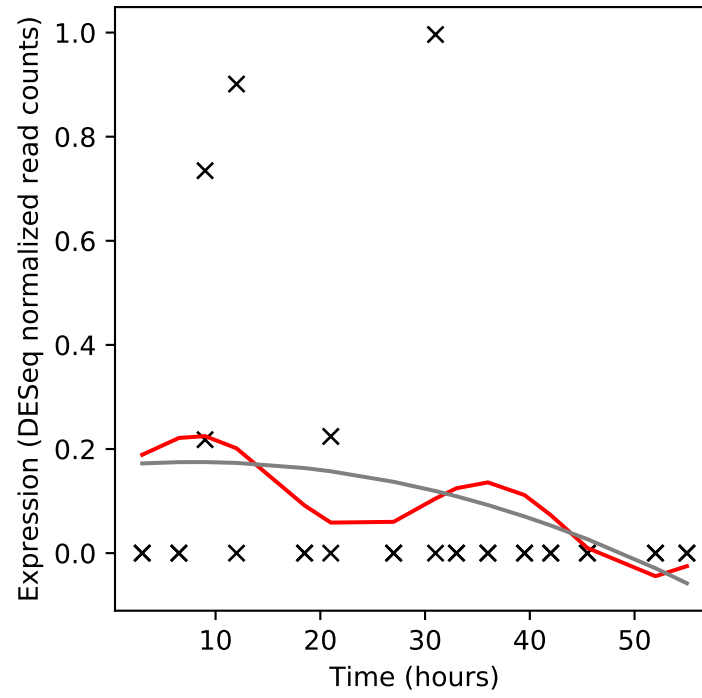
Rv3641c/fic



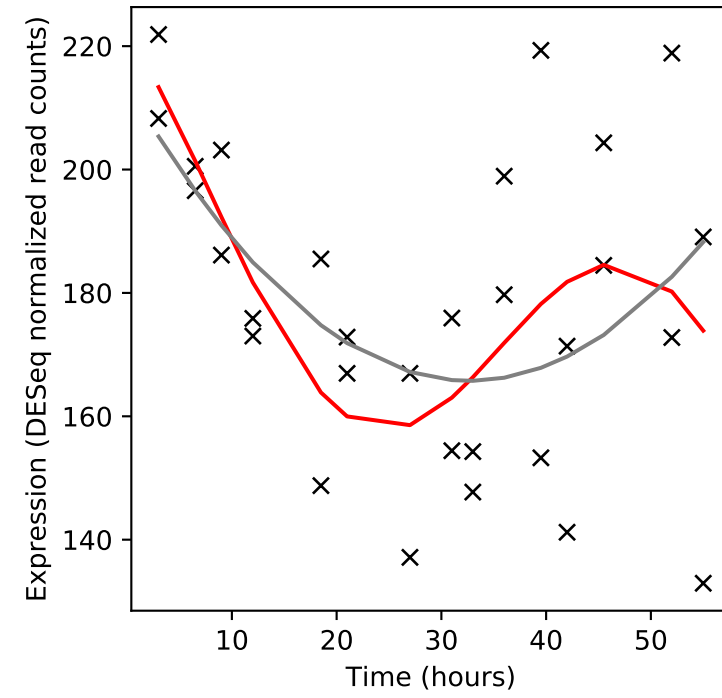
Rv3642c/-



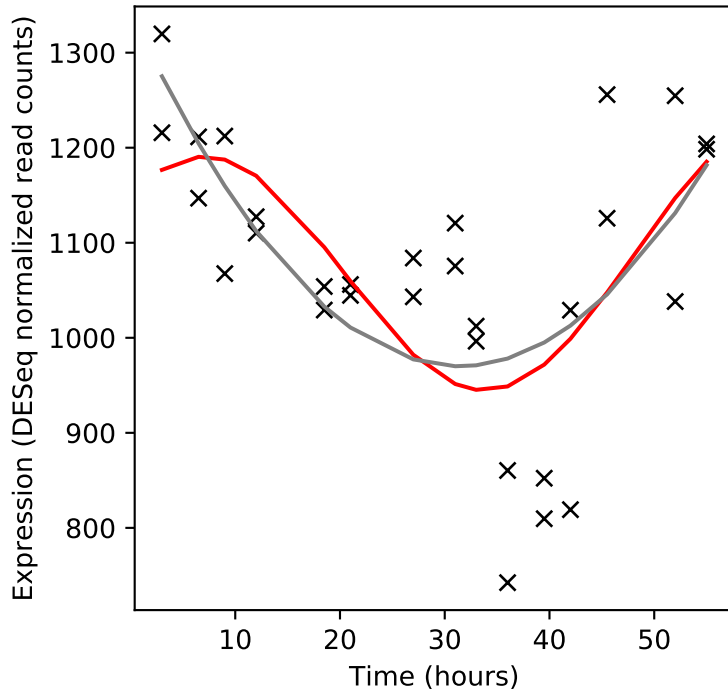
Rv3643/-



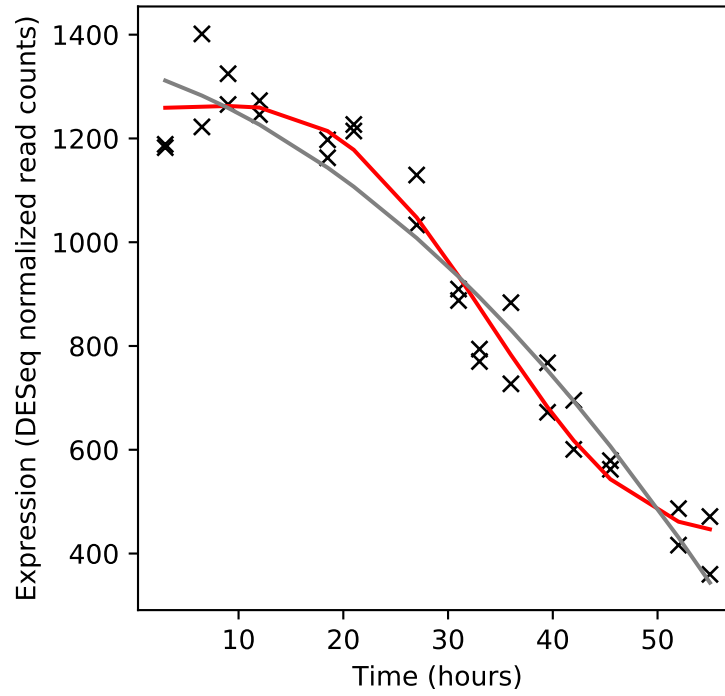
Rv3644c/-



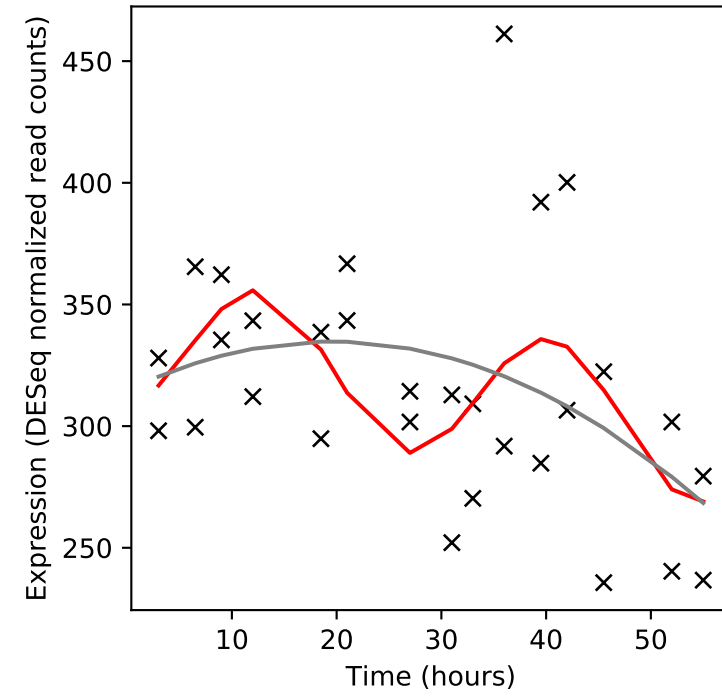
Rv3645/-



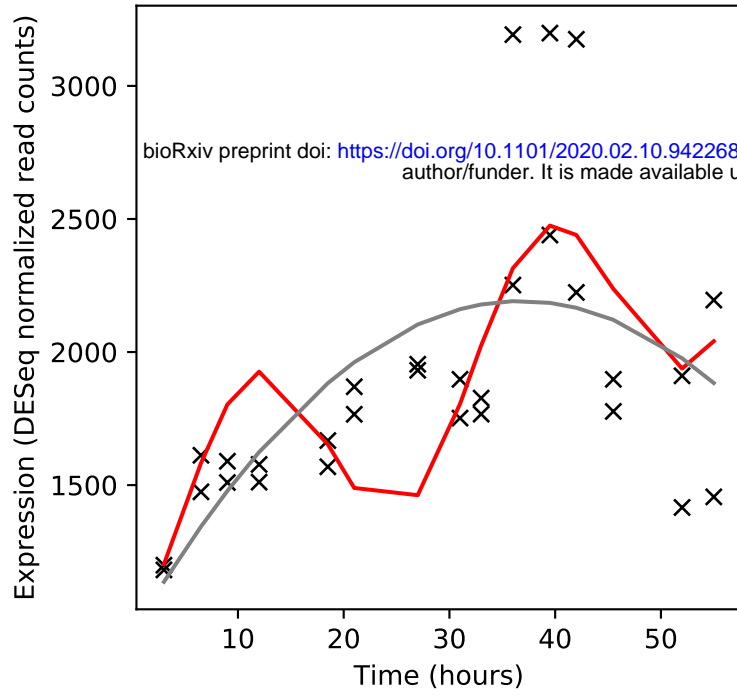
Rv3646c/topA



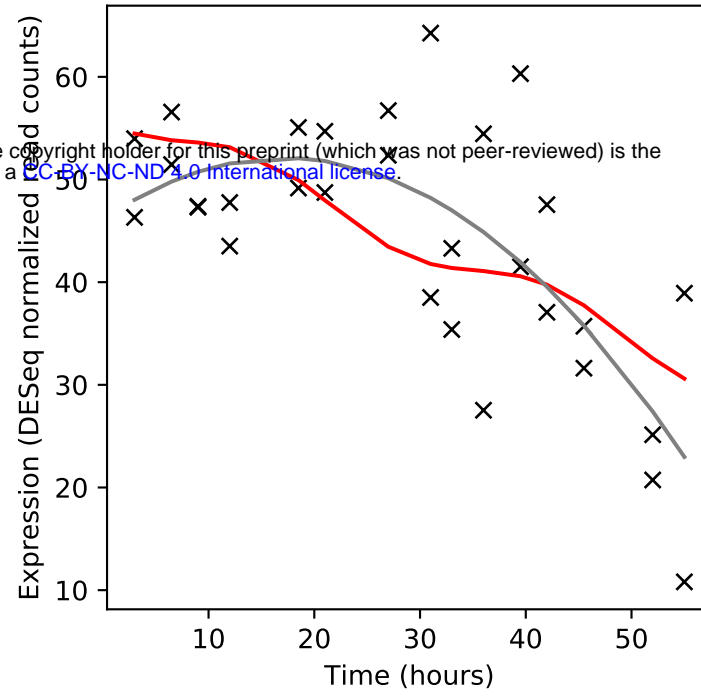
Rv3647c/-



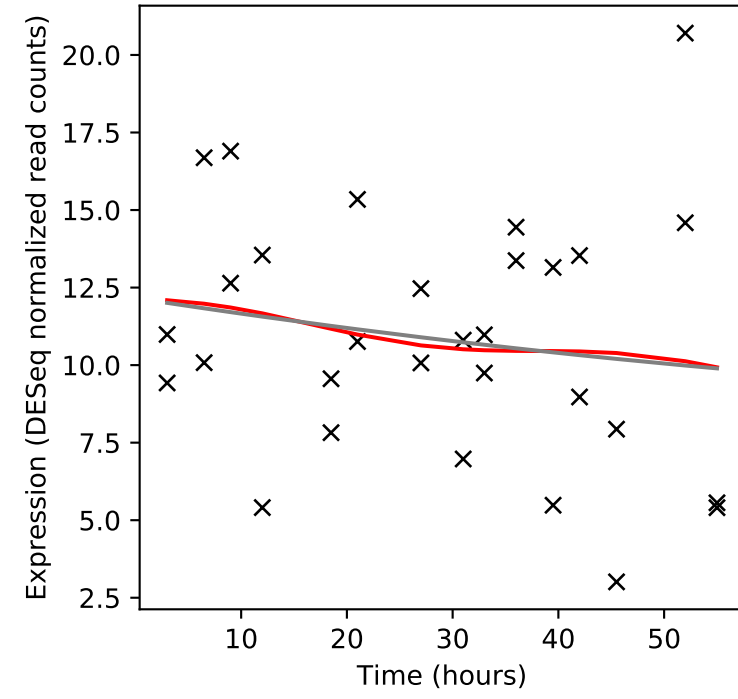
Rv3648c/cspA



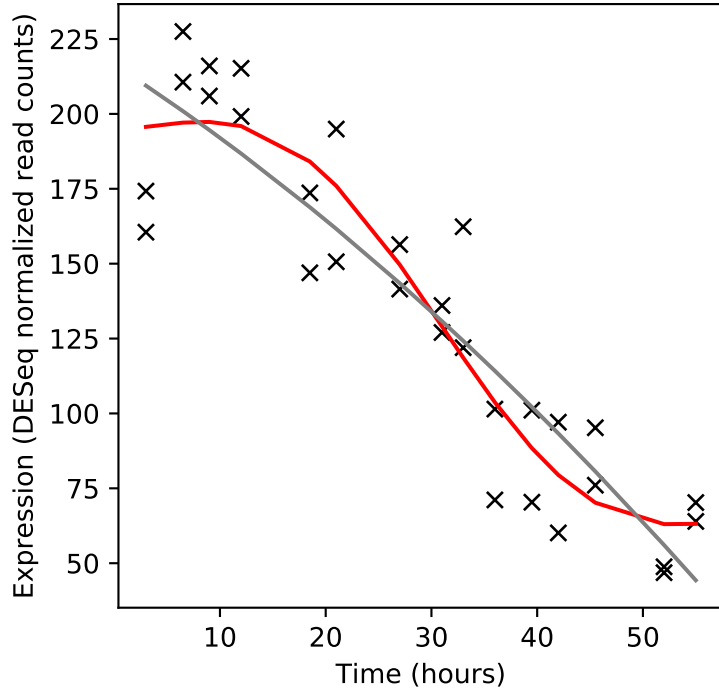
Rv3649/-



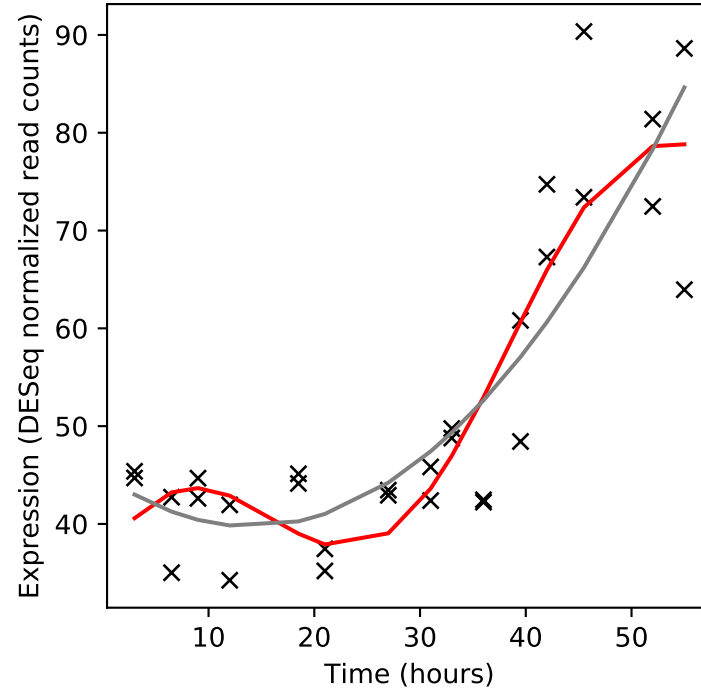
Rv3650/PE33



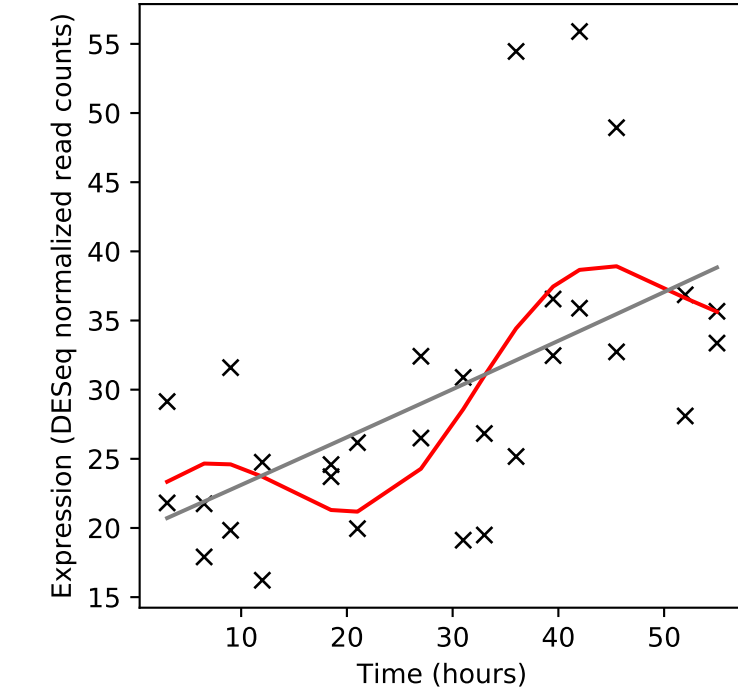
Rv3651/-



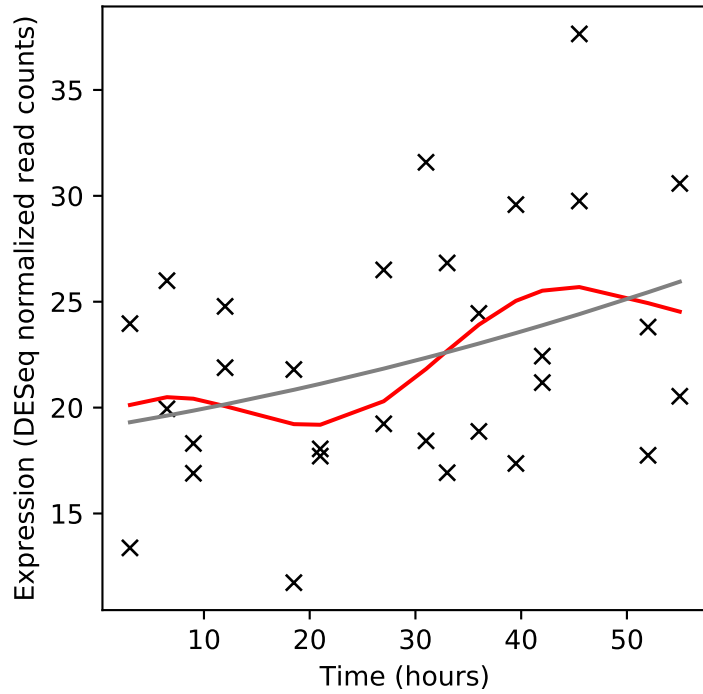
Rv3652/PE_PGRS60



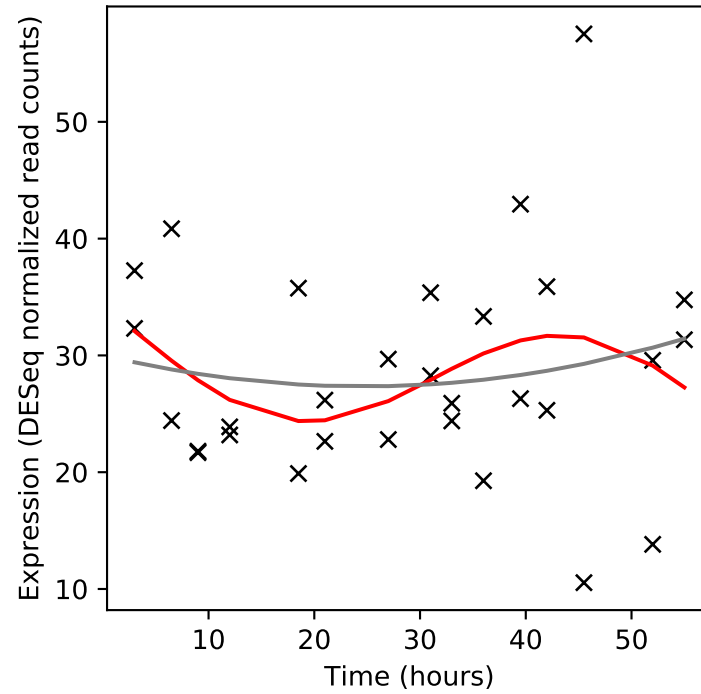
Rv3653/PE_PGRS61



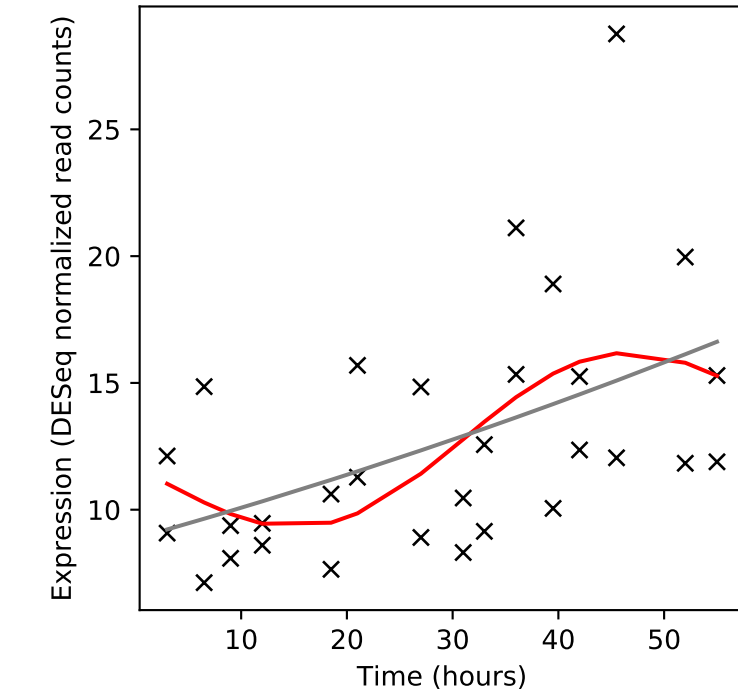
Rv3654c/-



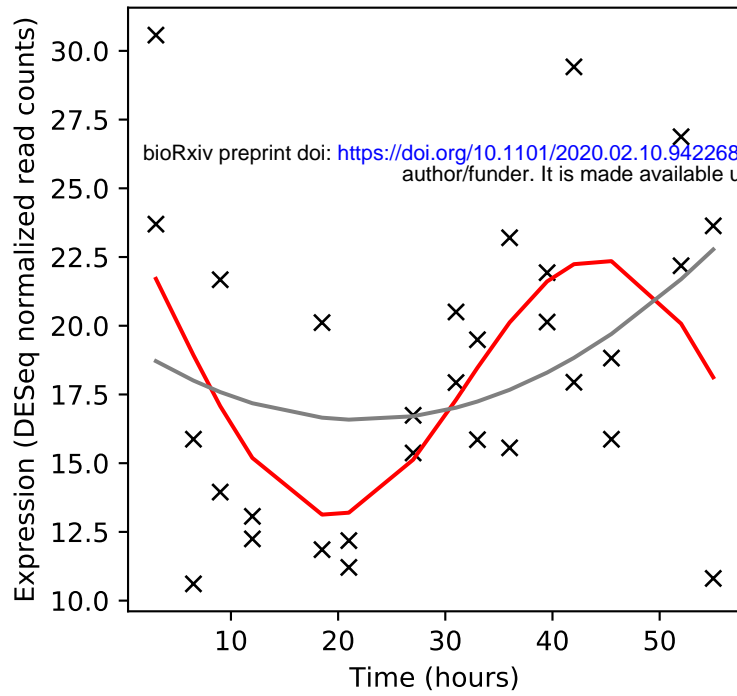
Rv3655c/-



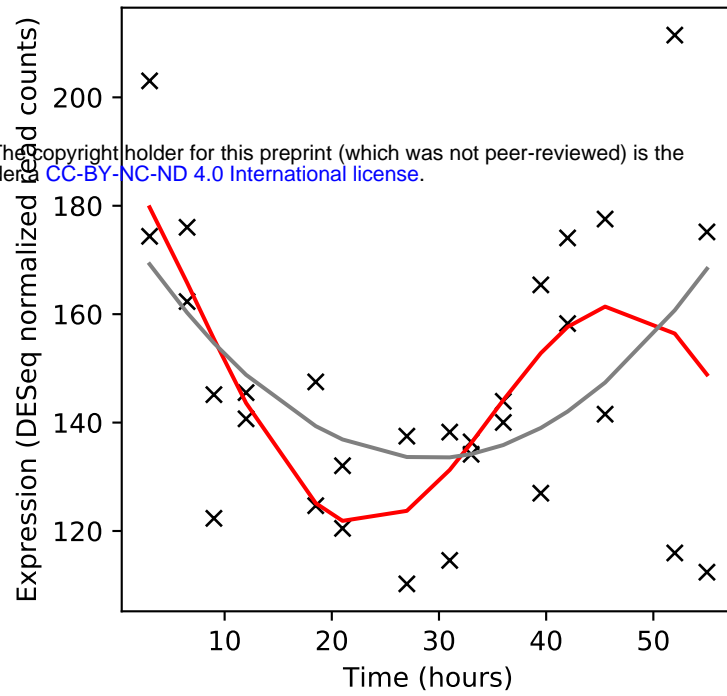
Rv3656c/-



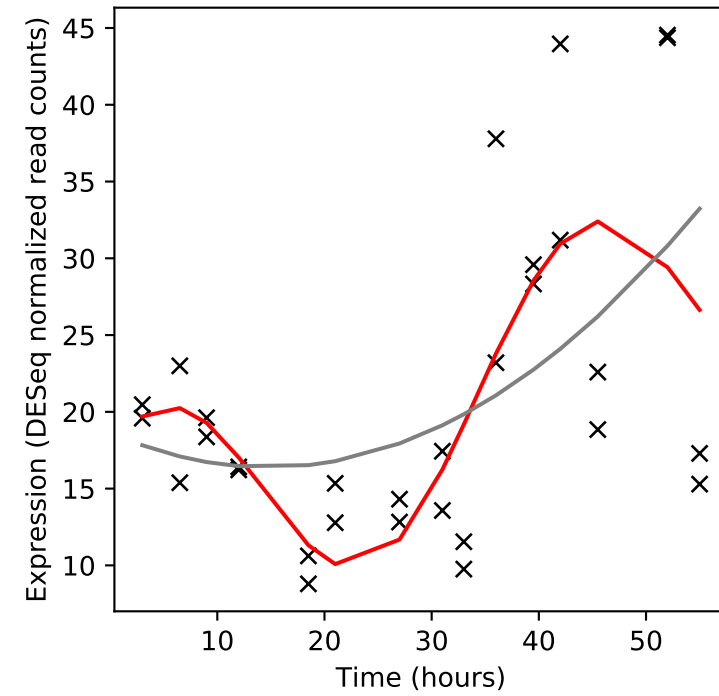
Rv3657c/-



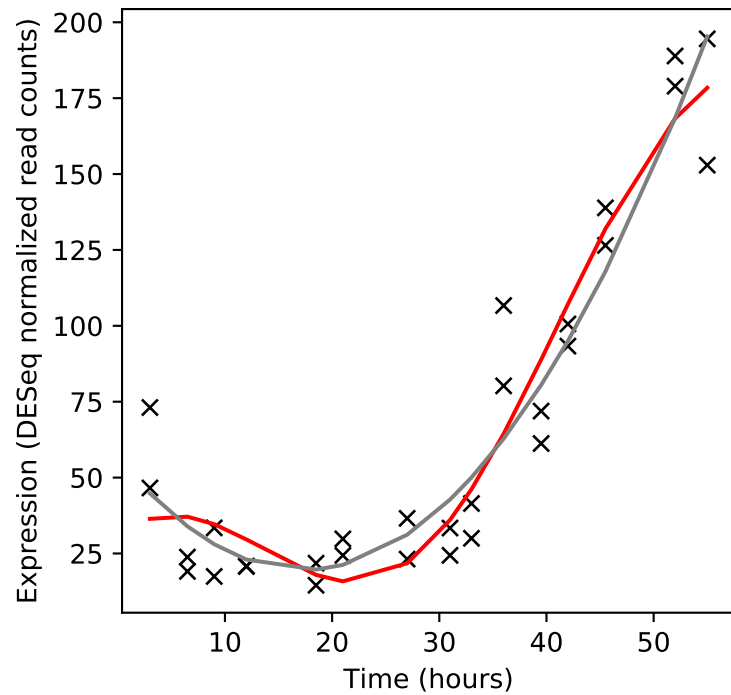
Rv3658c/-



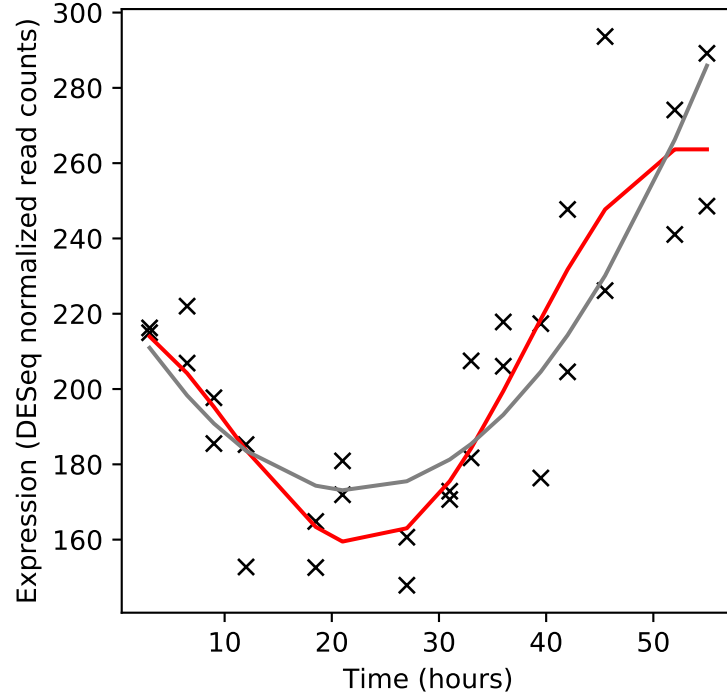
Rv3659c/-



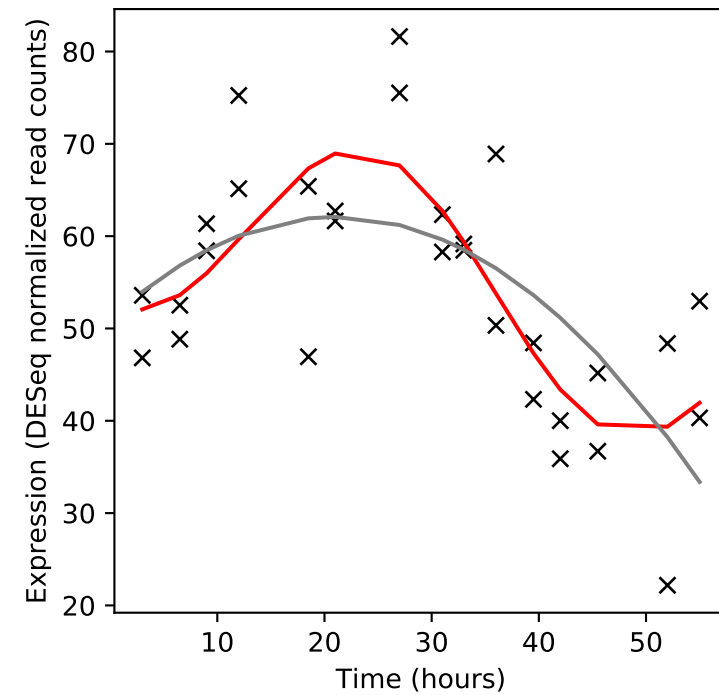
Rv3660c/-



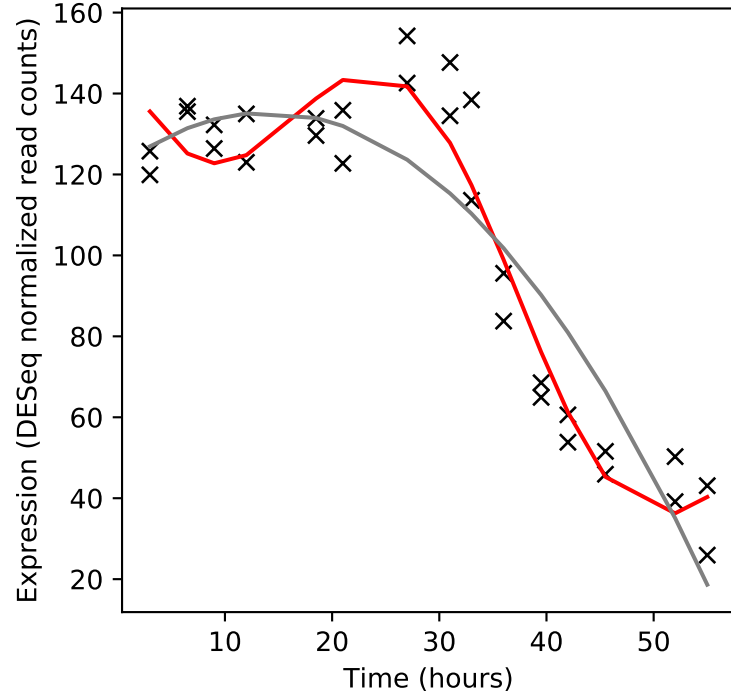
Rv3661c/-



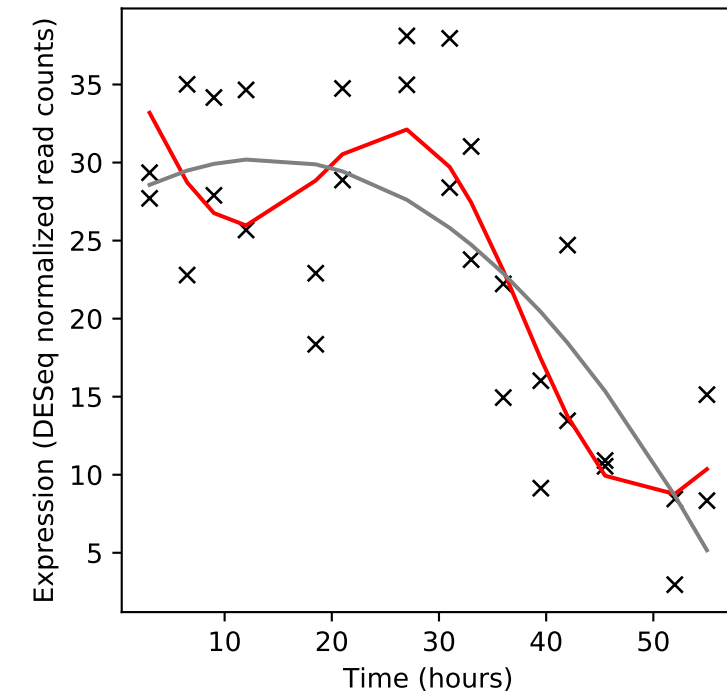
Rv3662c/-



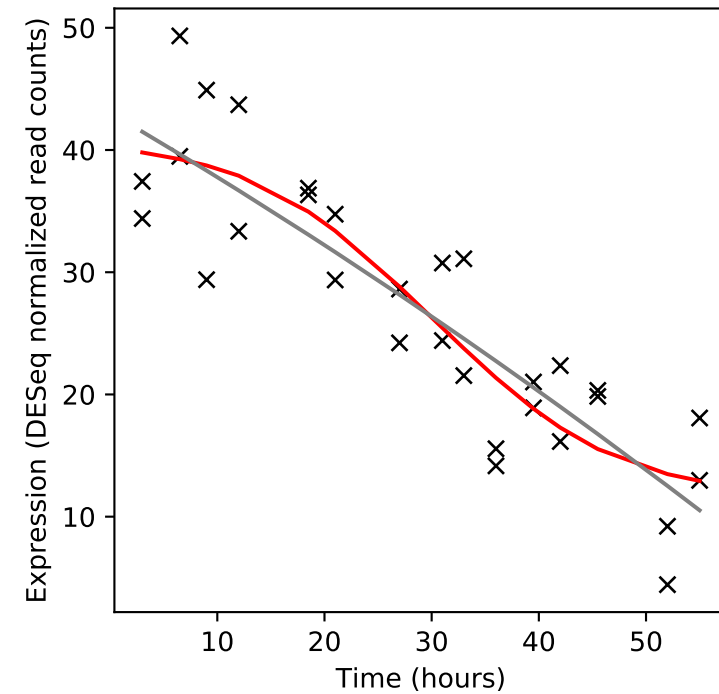
Rv3663c/dppD

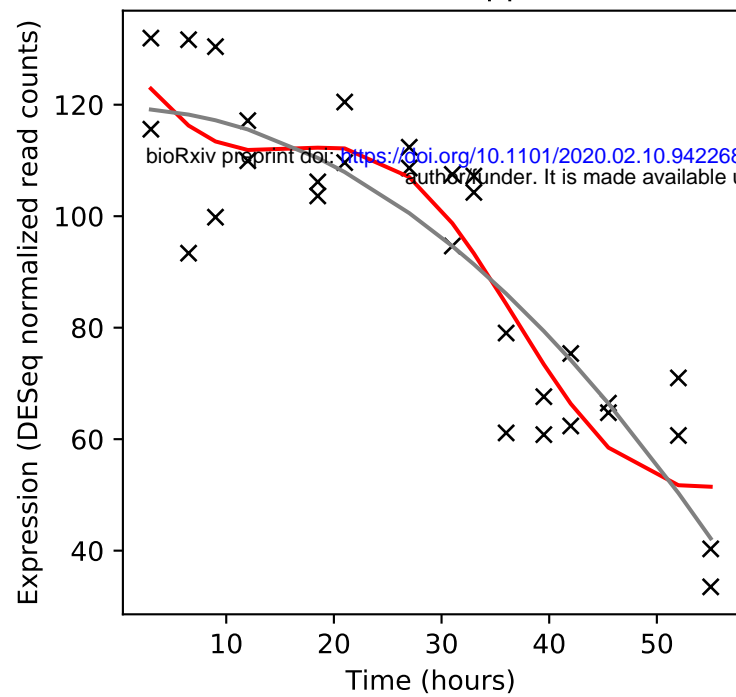
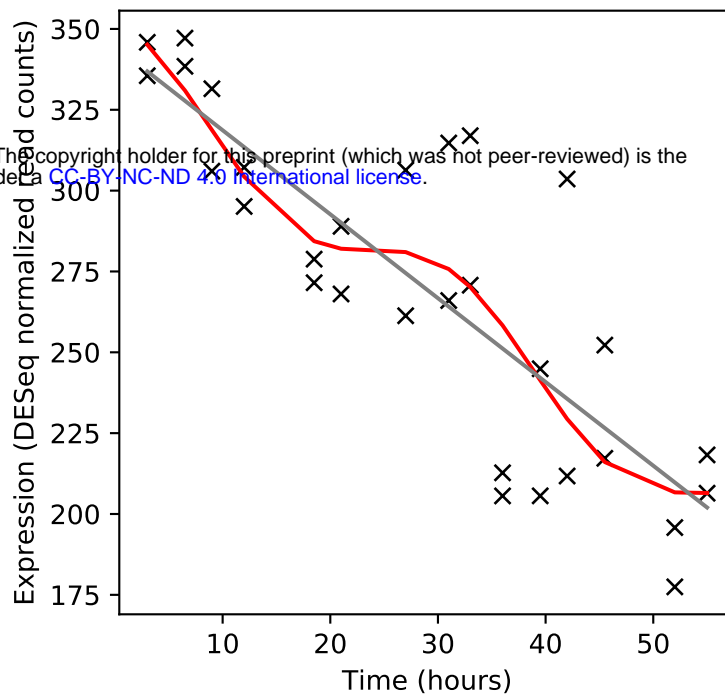
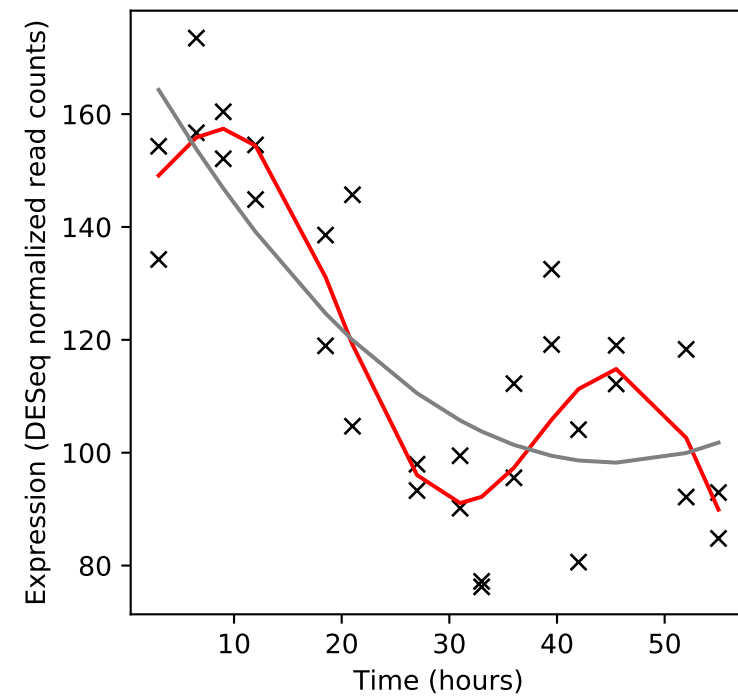
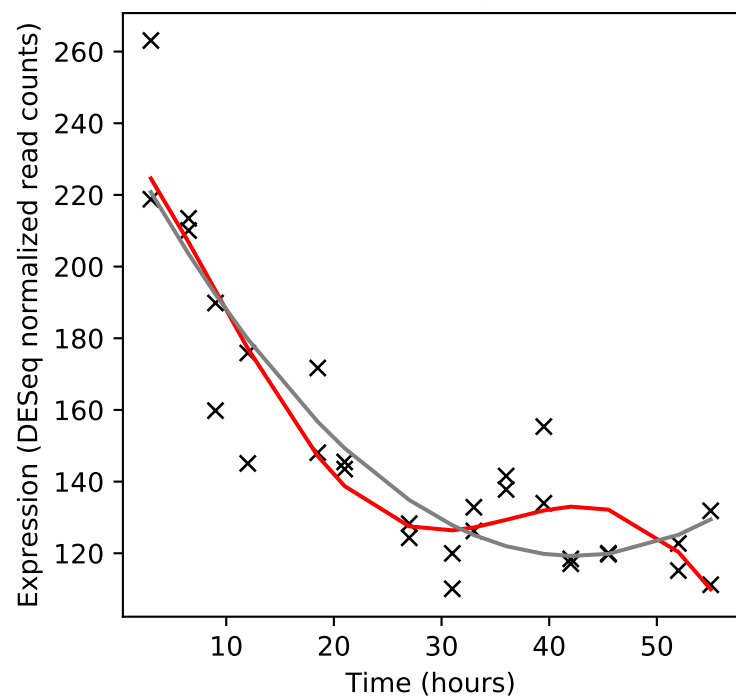
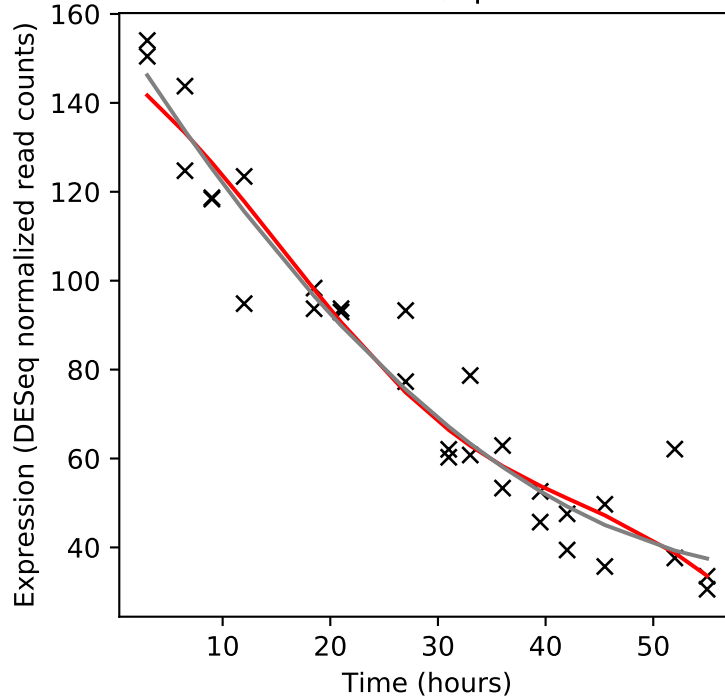
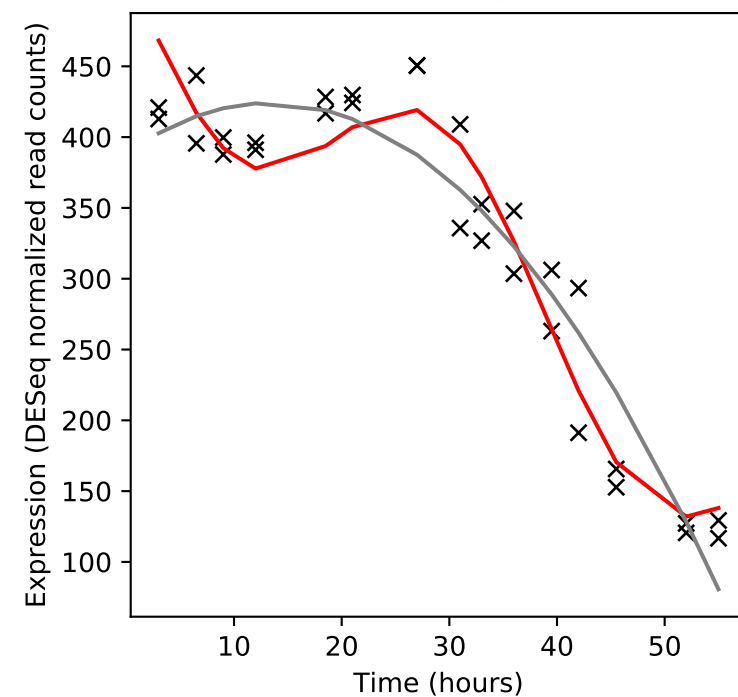
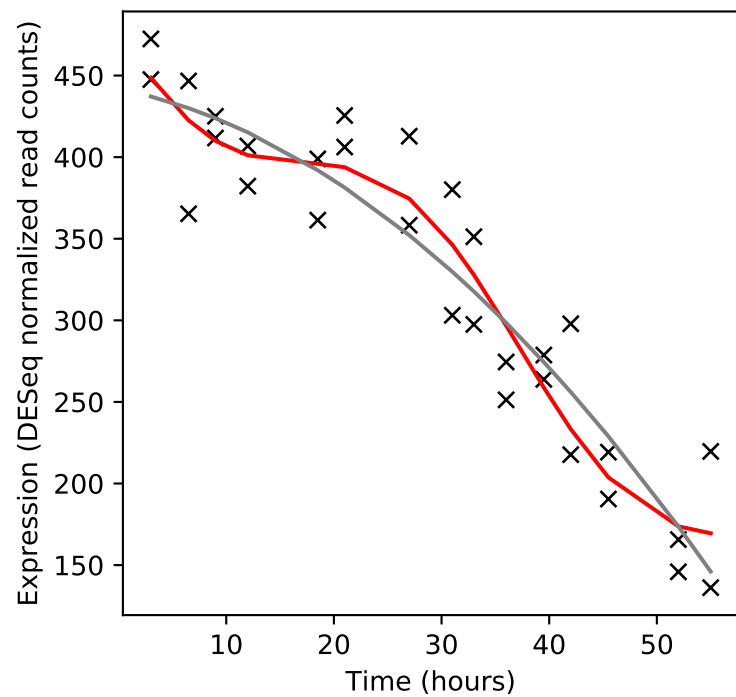
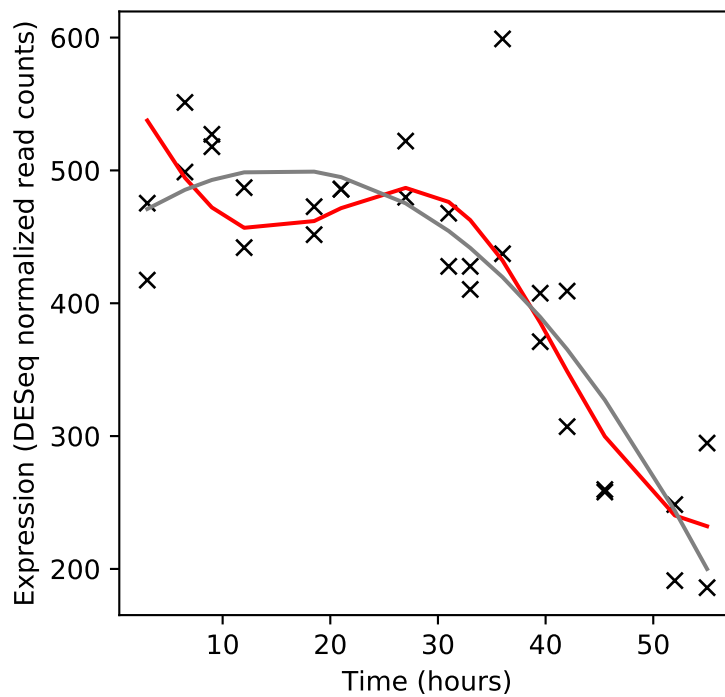
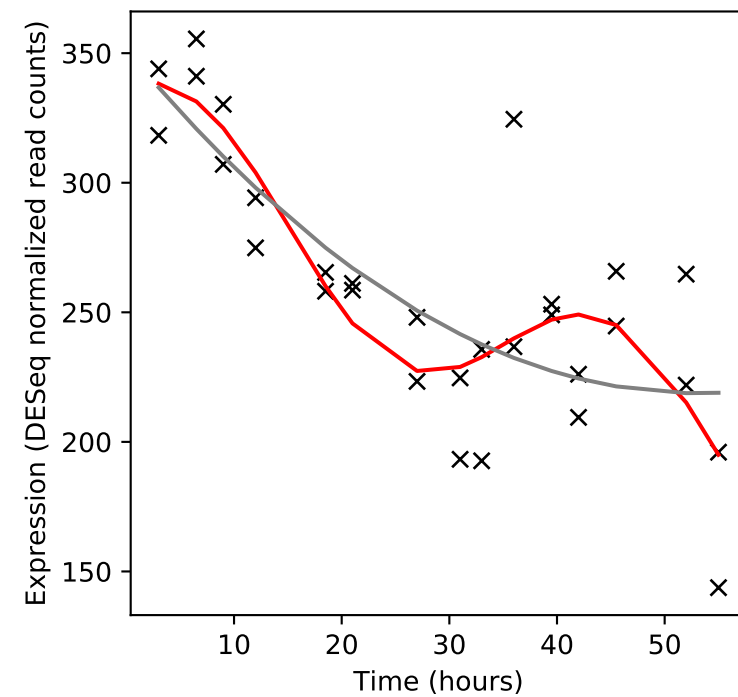


Rv3664c/dppC

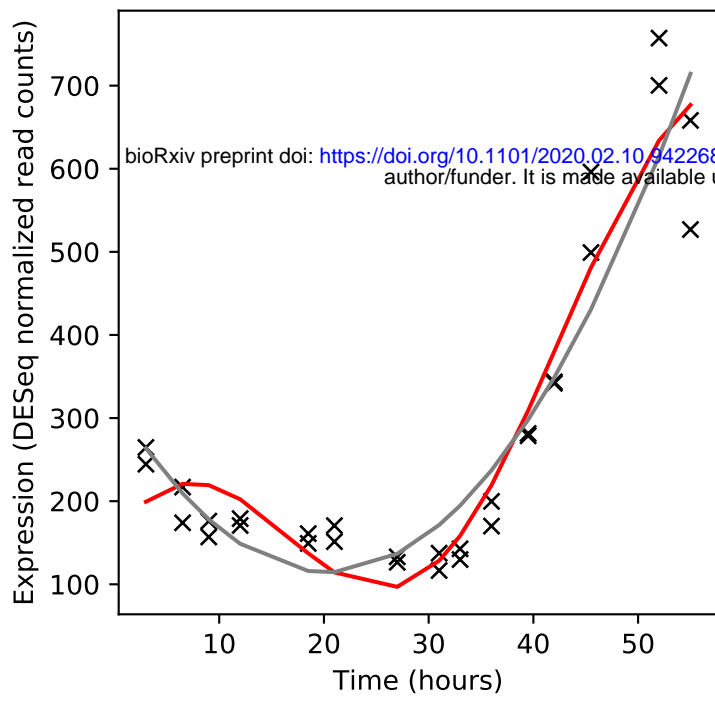


Rv3665c/dppB

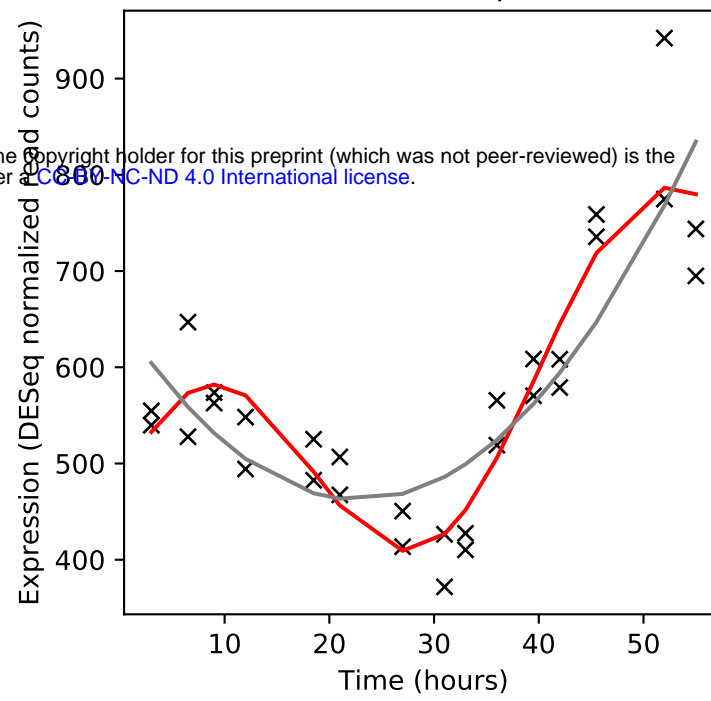


Rv3666c/dppA**Rv3667/acs****Rv3668c/-****Rv3669/-****Rv3670/ephE****Rv3671c/-****Rv3672c/-****Rv3673c/-****Rv3674c/nth**

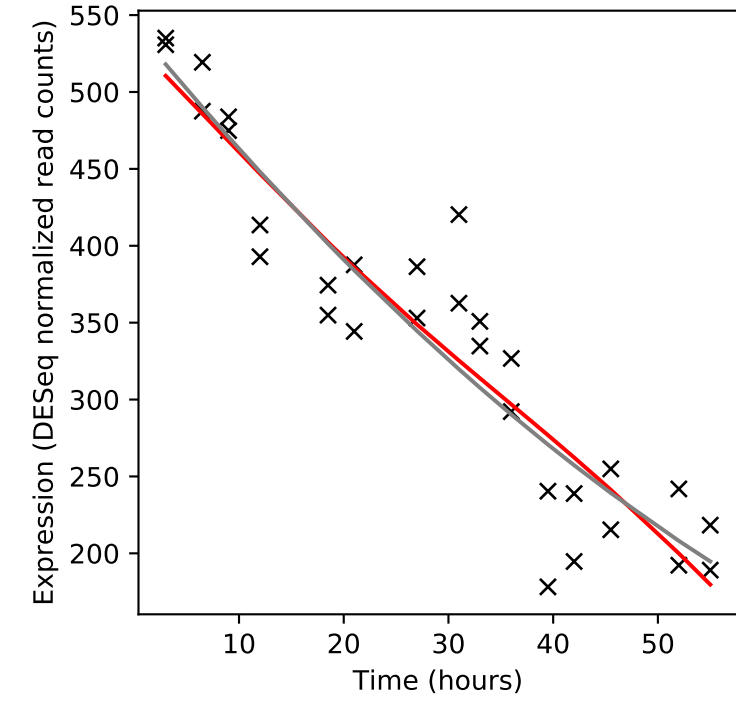
Rv3675/-



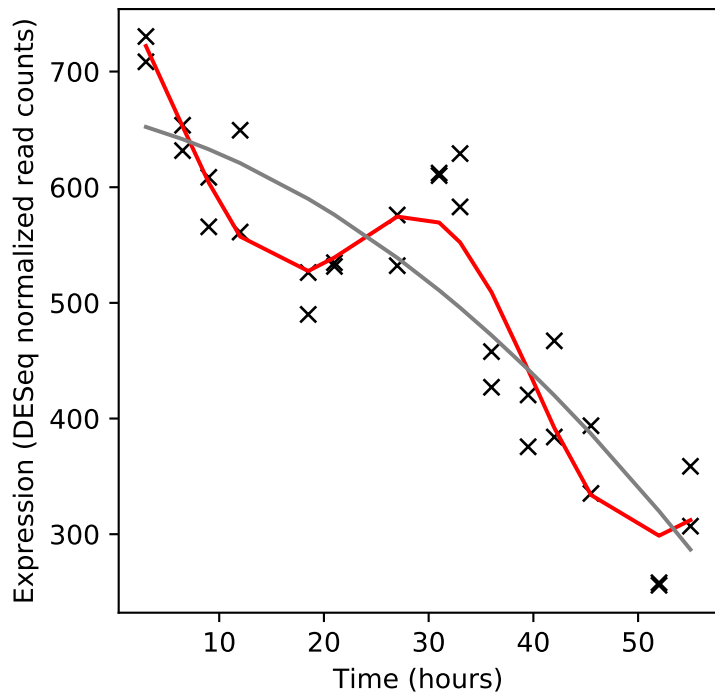
Rv3676/crp



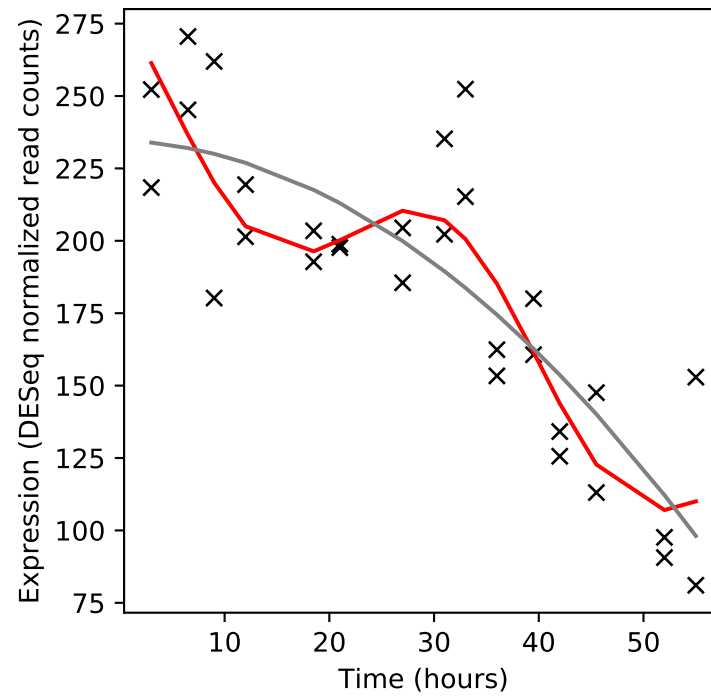
Rv3677c/-



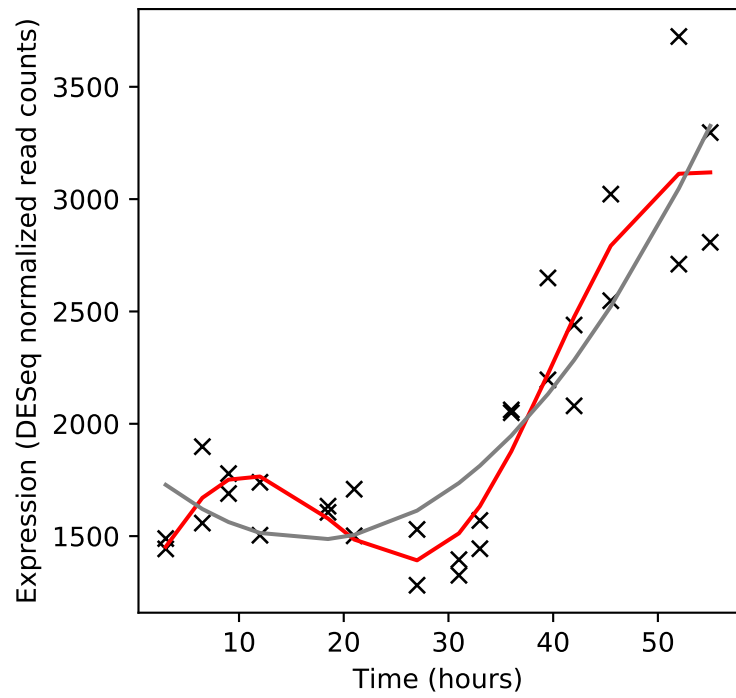
Rv3678c/-



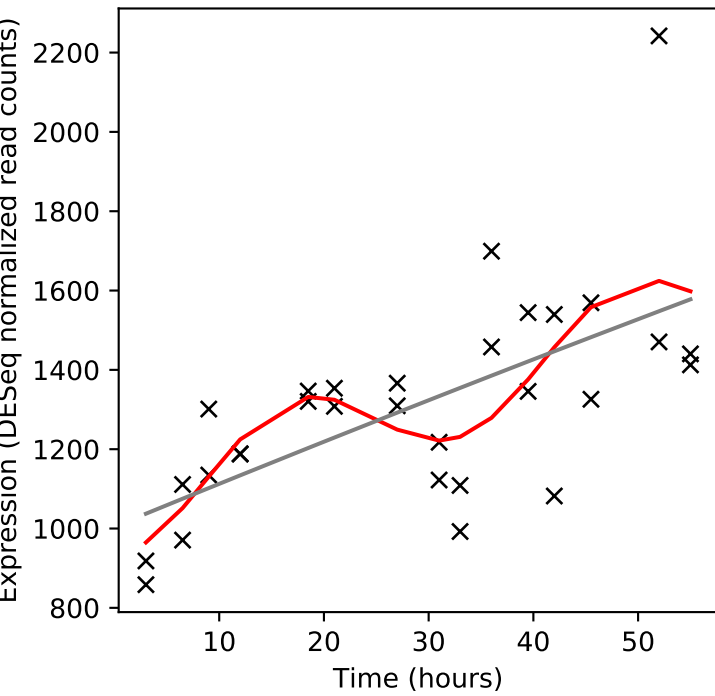
Rv3678A/-



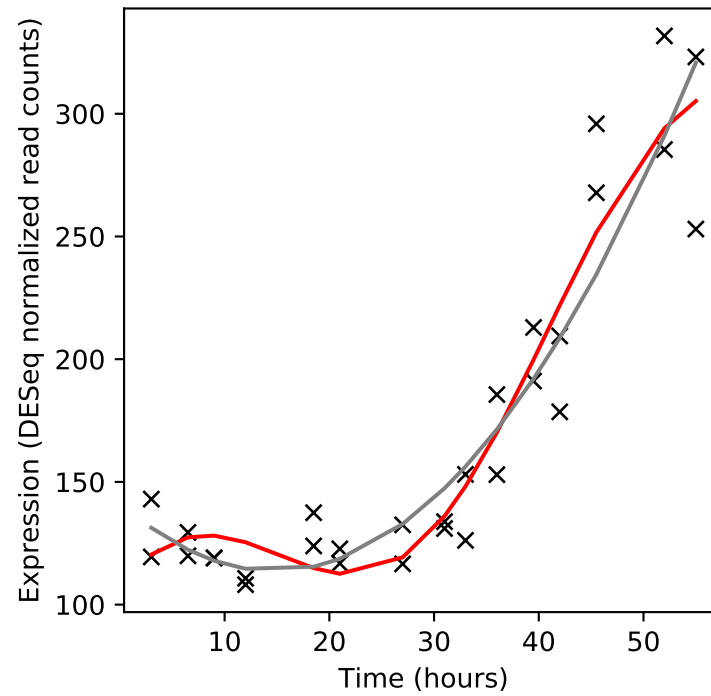
Rv3679/-



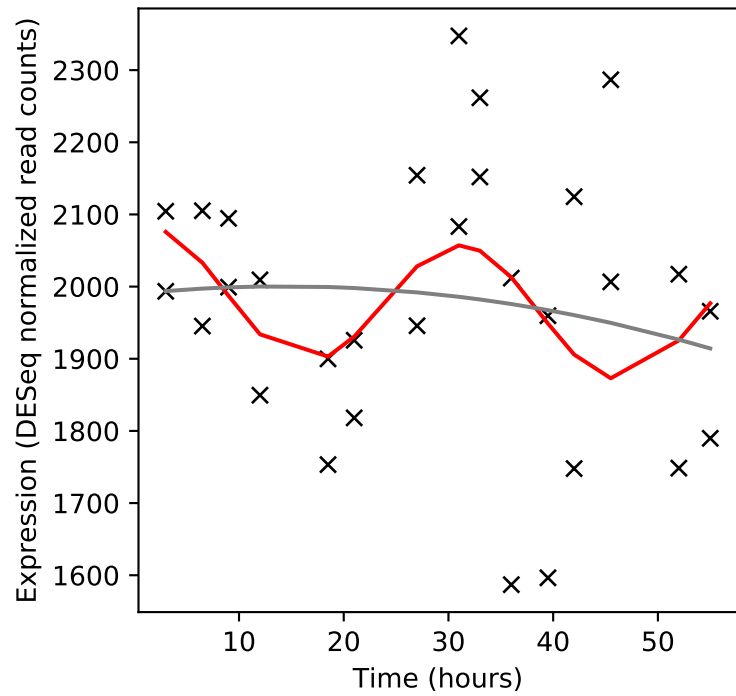
Rv3680/-



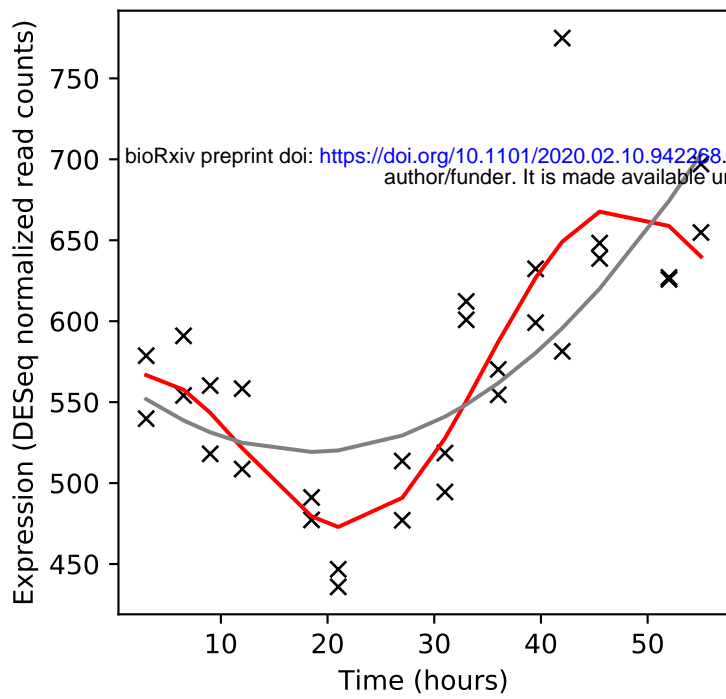
Rv3681c/whiB4



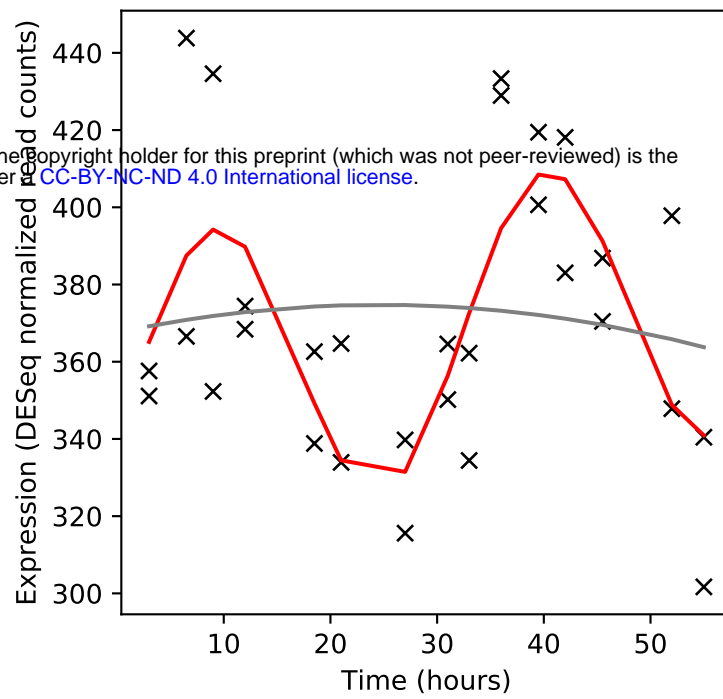
Rv3682/ponA2



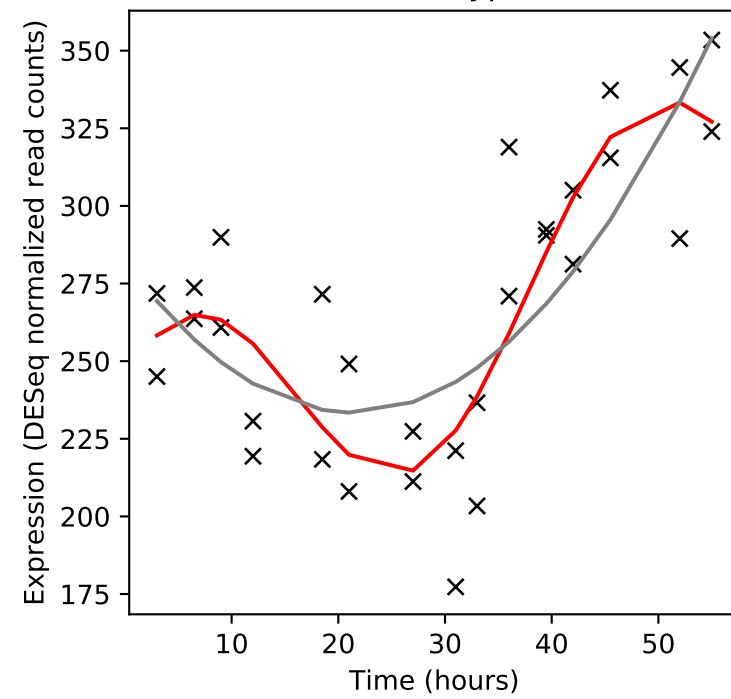
Rv3683/-



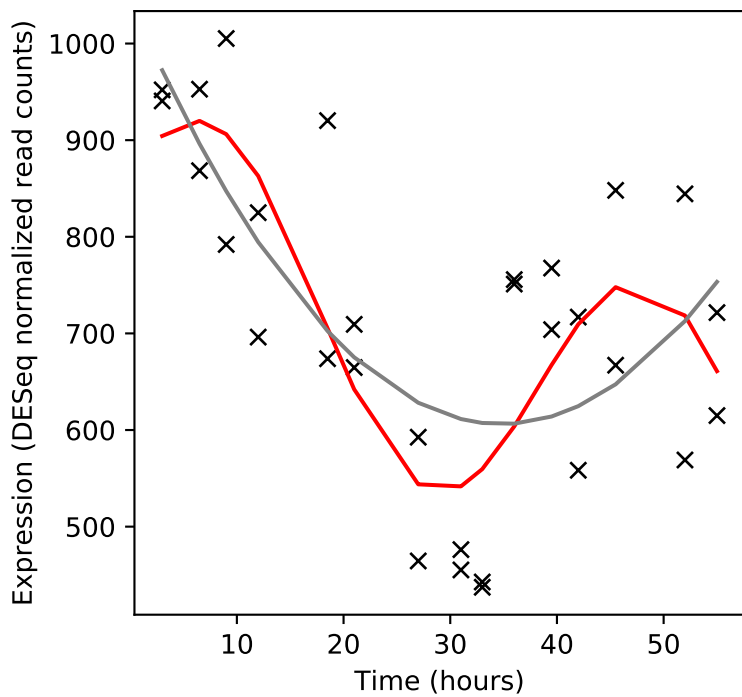
Rv3684/-



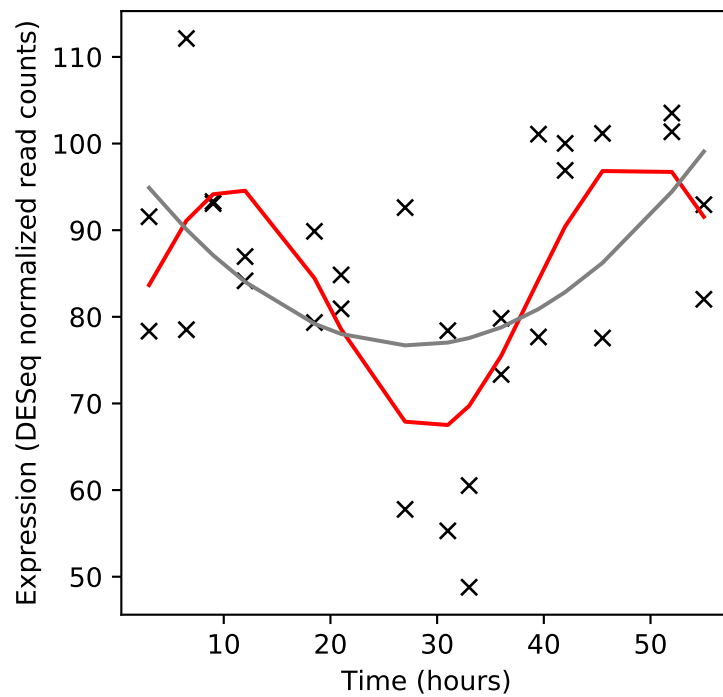
Rv3685c/cyp137



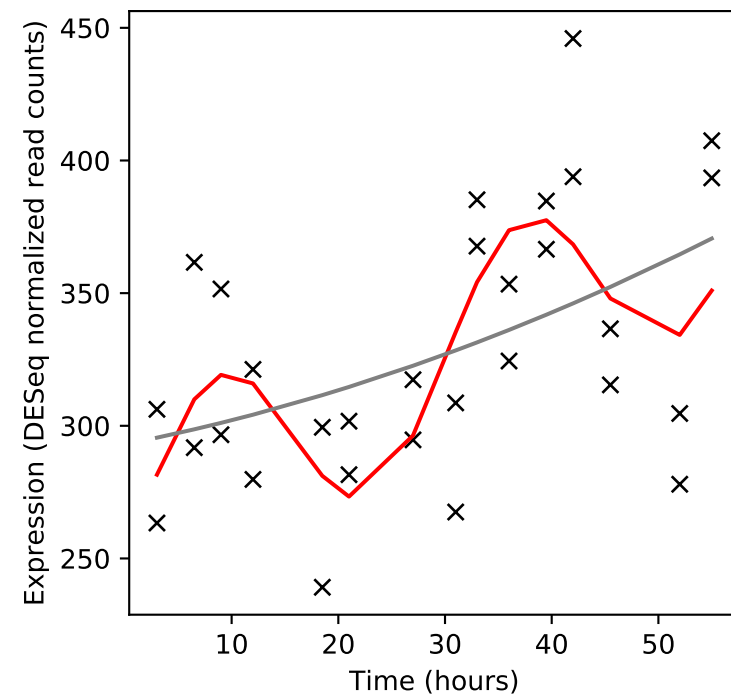
Rv3686c/-



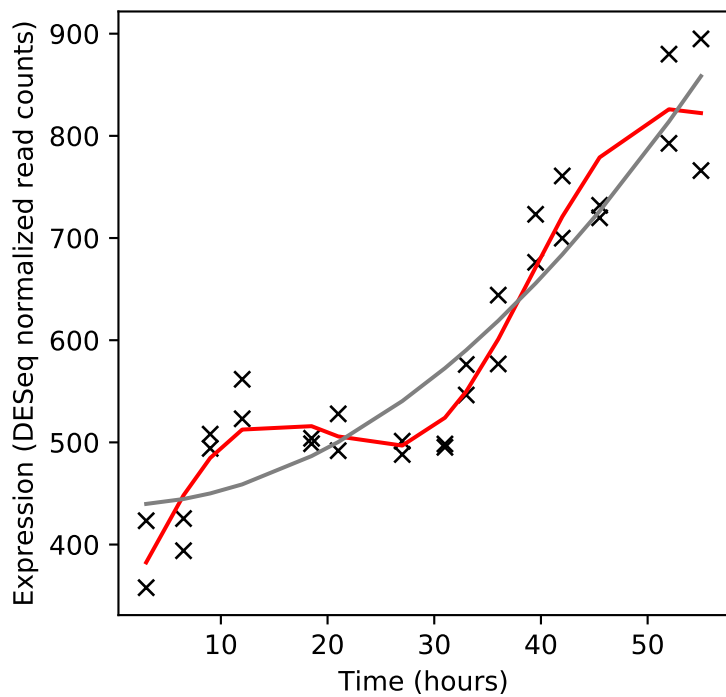
Rv3687c/rsfB



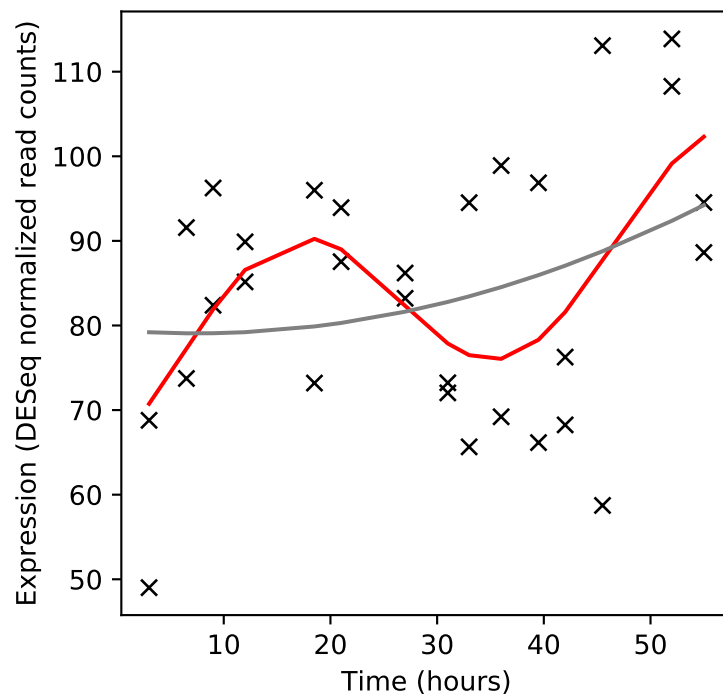
Rv3688c/-



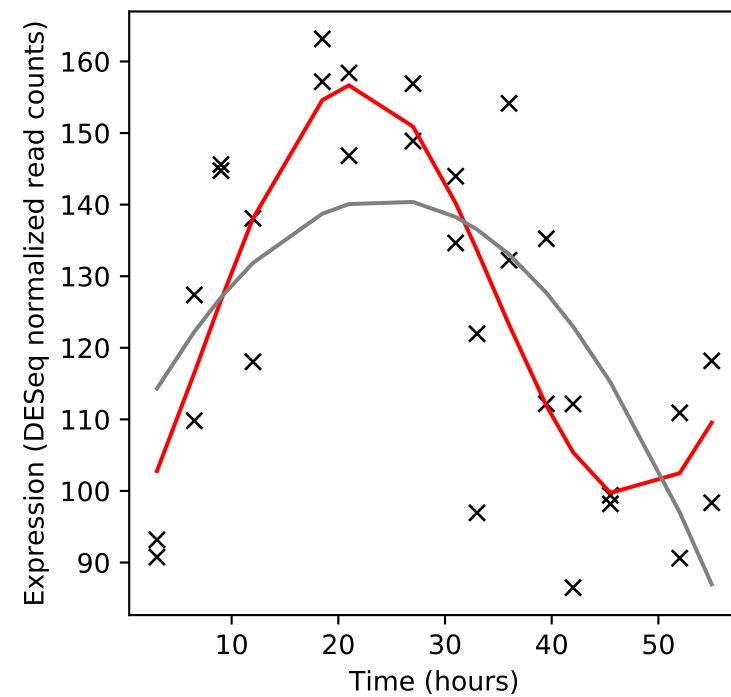
Rv3689/-



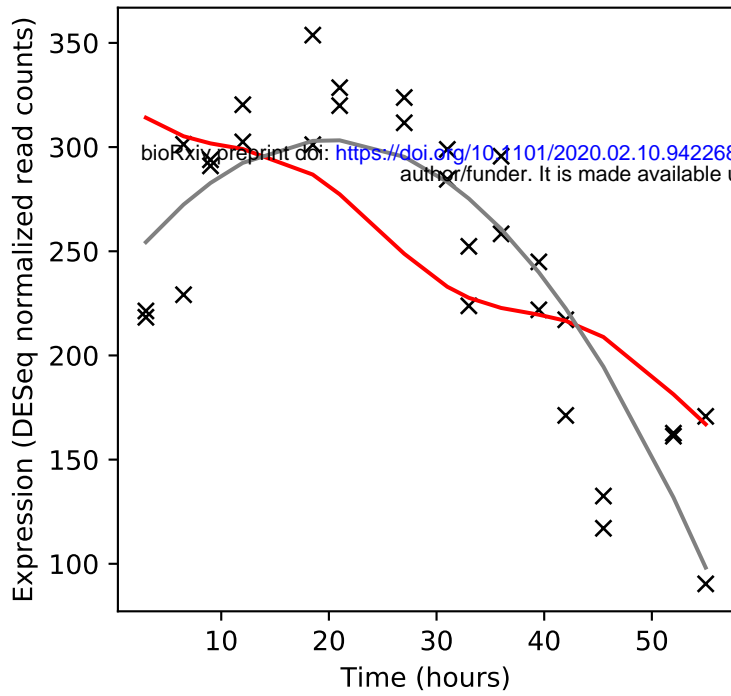
Rv3690/-



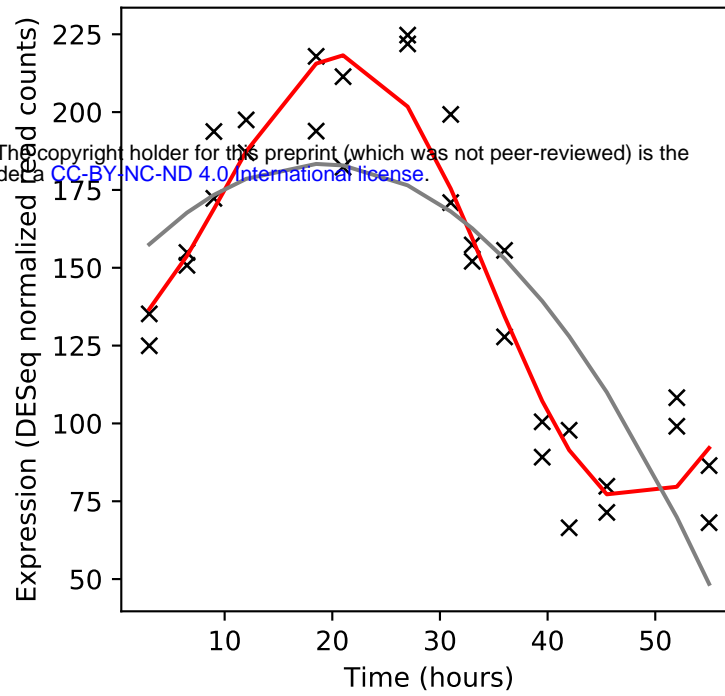
Rv3691/-



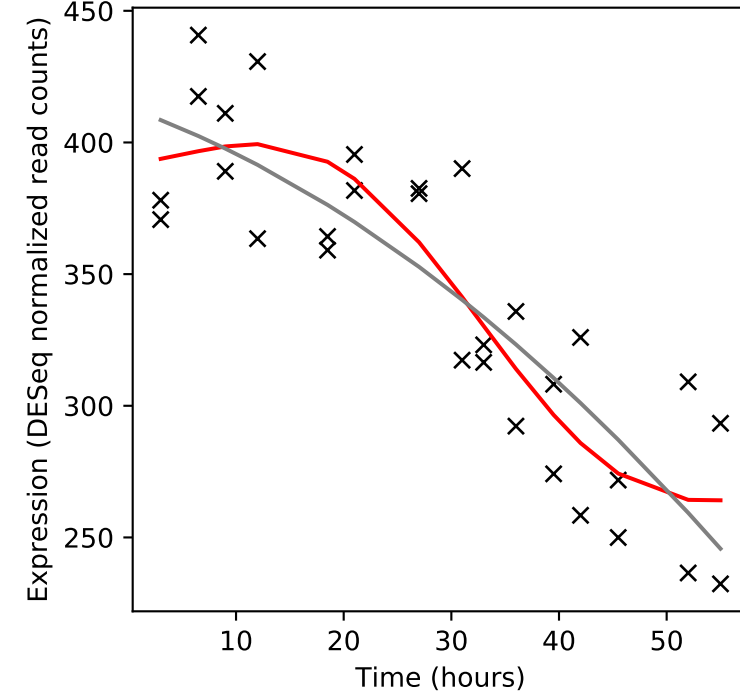
Rv3692/moxR2



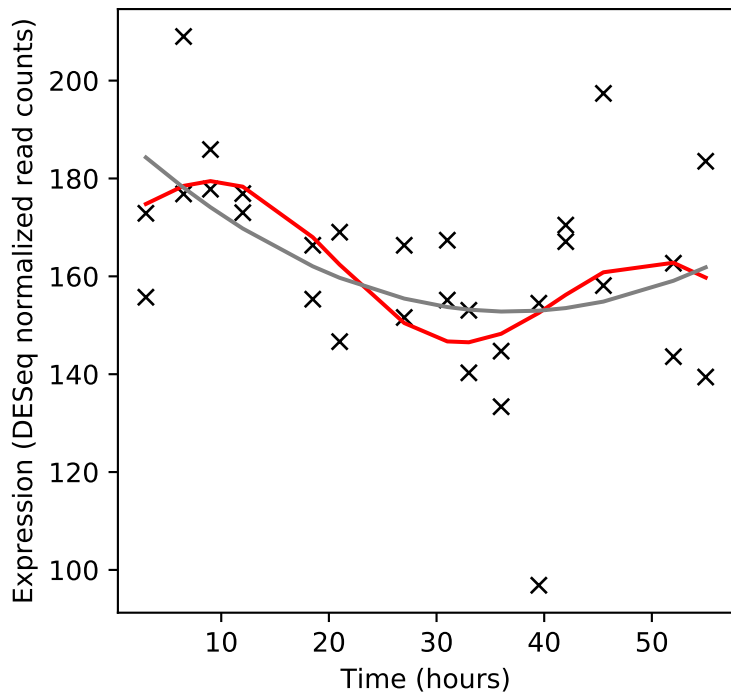
Rv3693/-



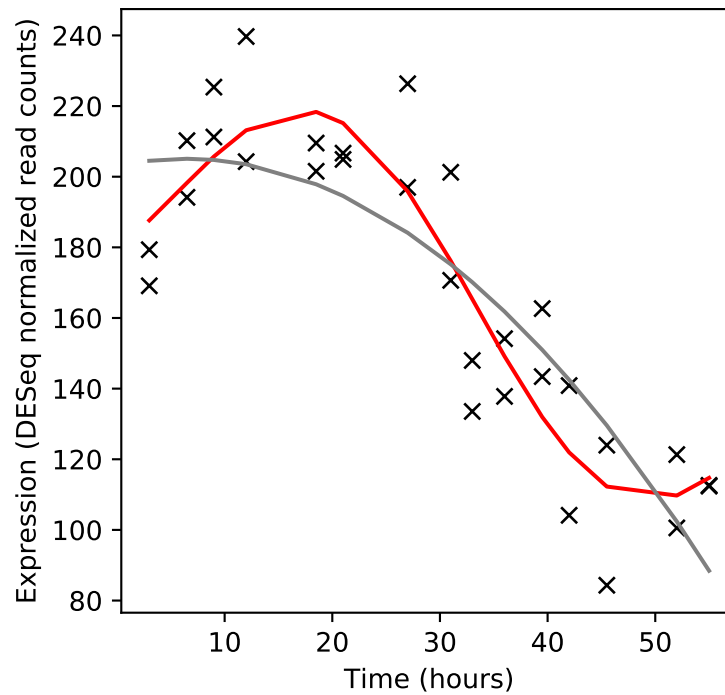
Rv3694c/-



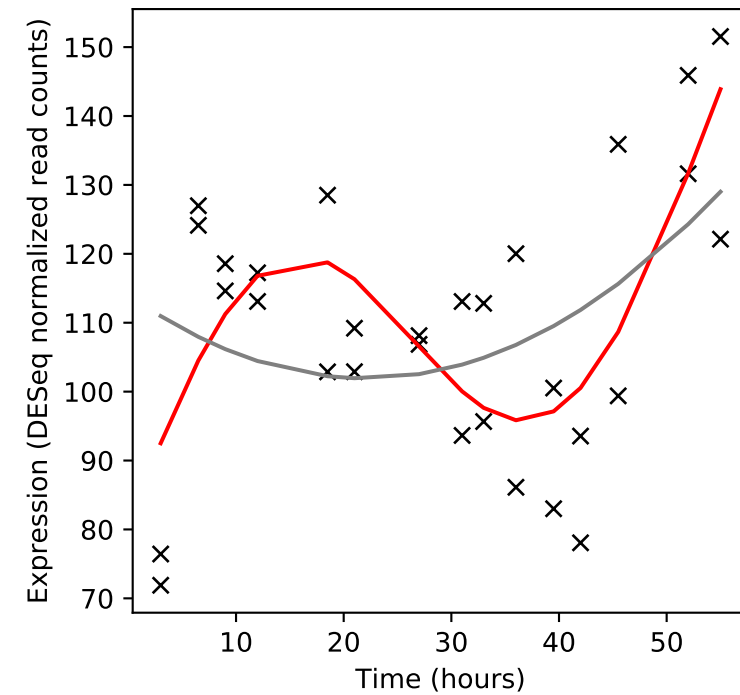
Rv3695/-



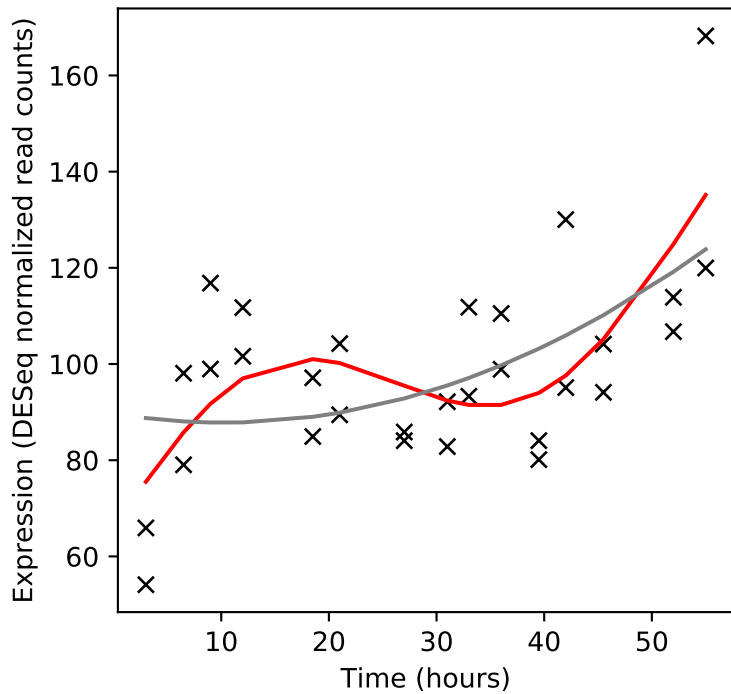
Rv3696c/glpK



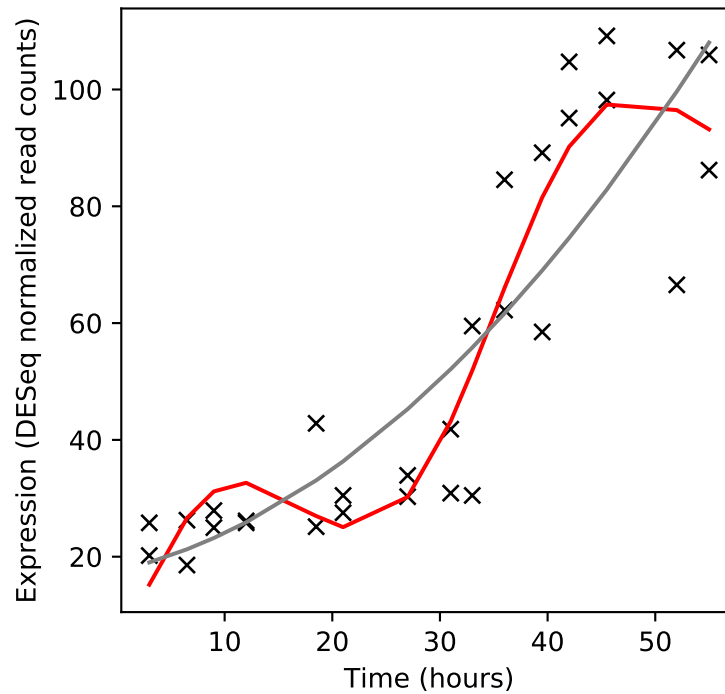
Rv3697c/vapC48



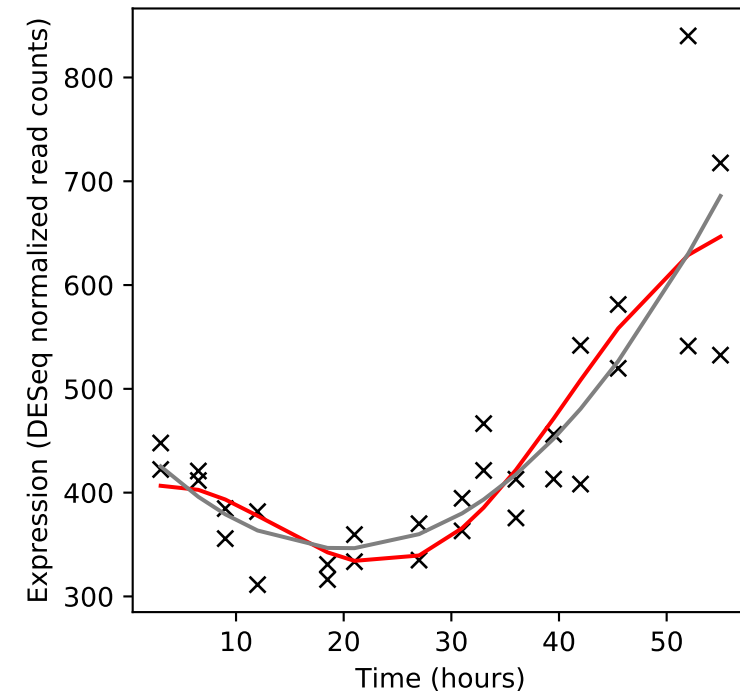
Rv3697A/vapB48



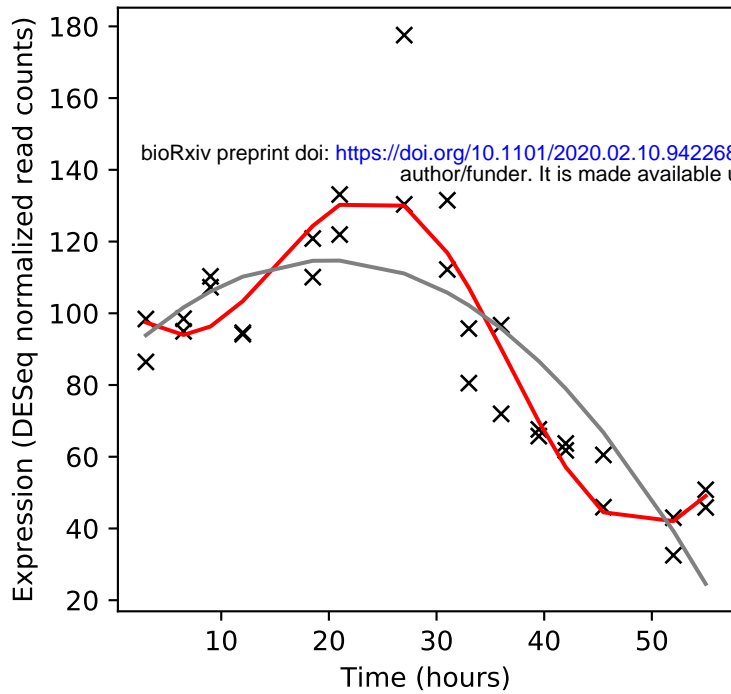
Rv3698/-



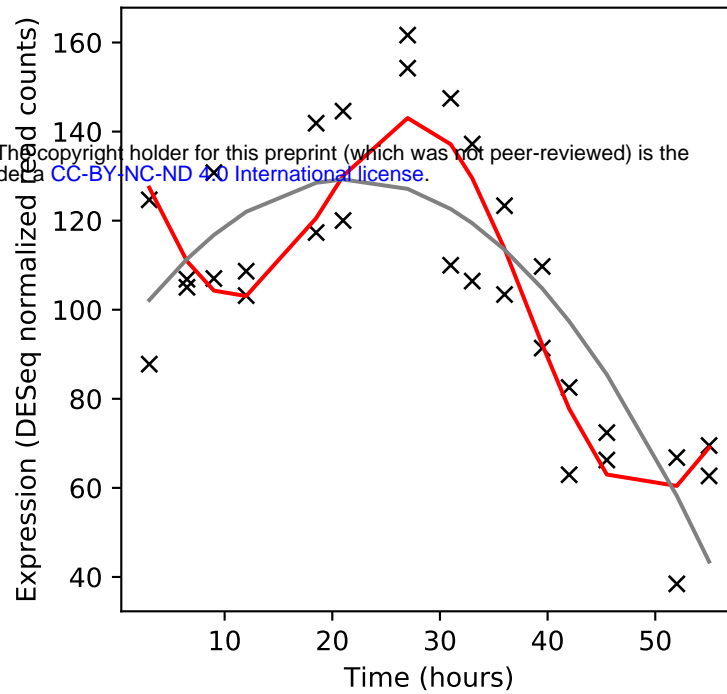
Rv3699/-



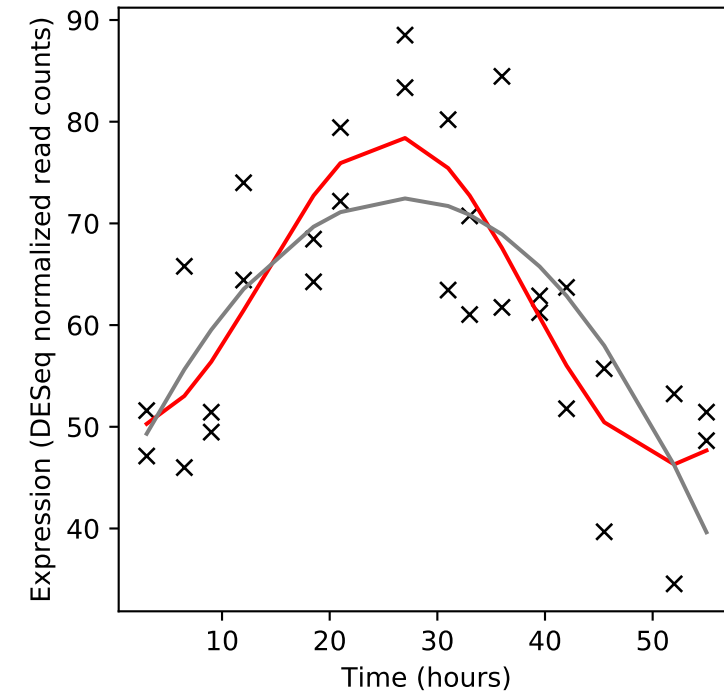
Rv3700c/-



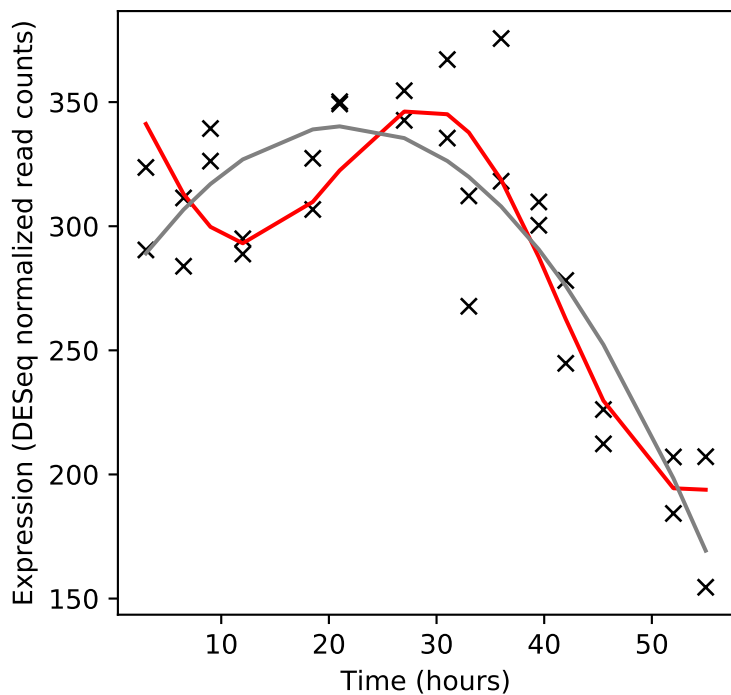
Rv3701c/-



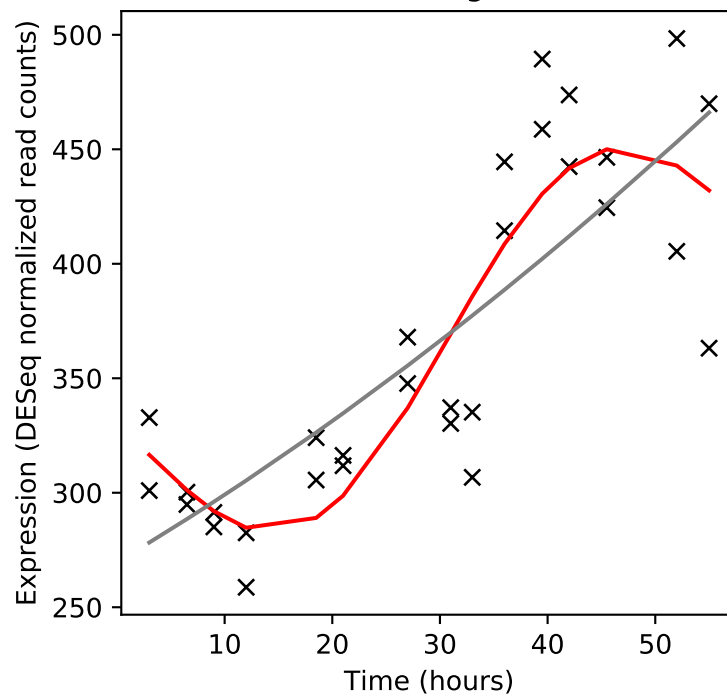
Rv3702c/-



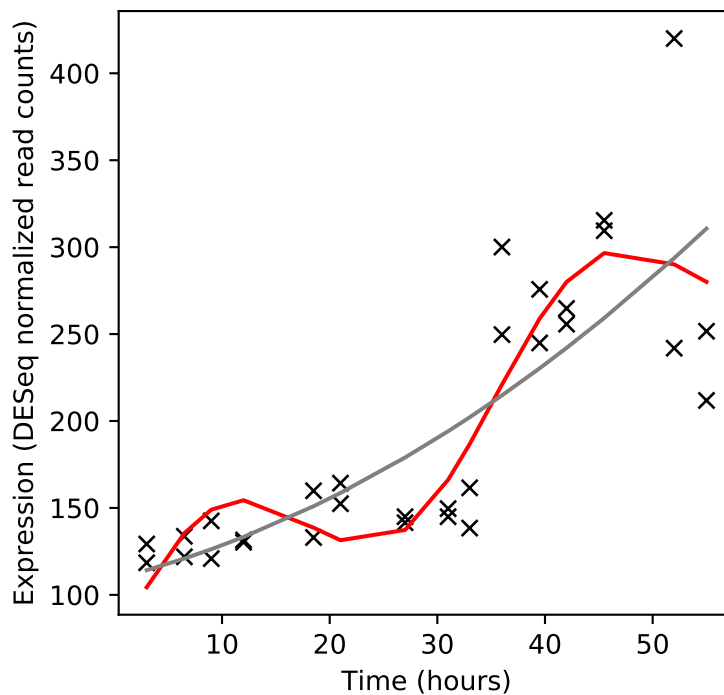
Rv3703c/-



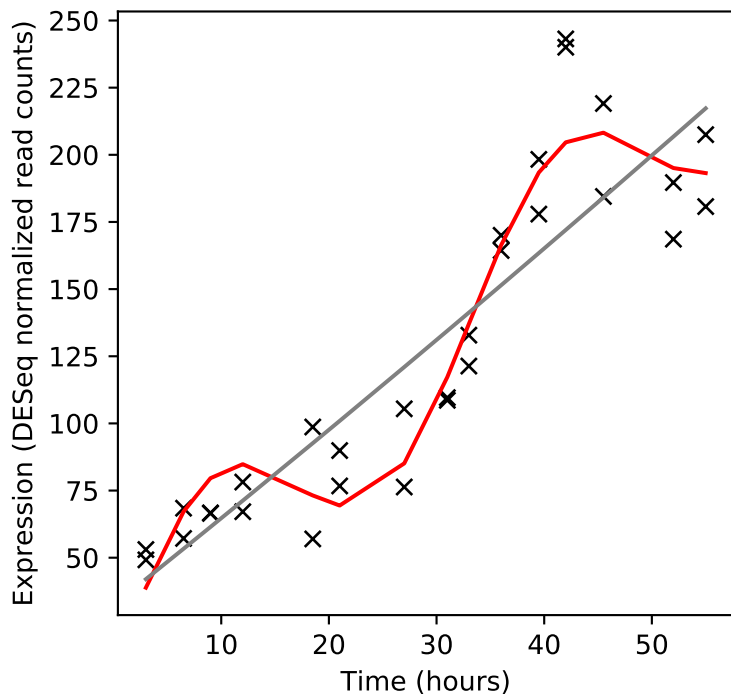
Rv3704c/gshA



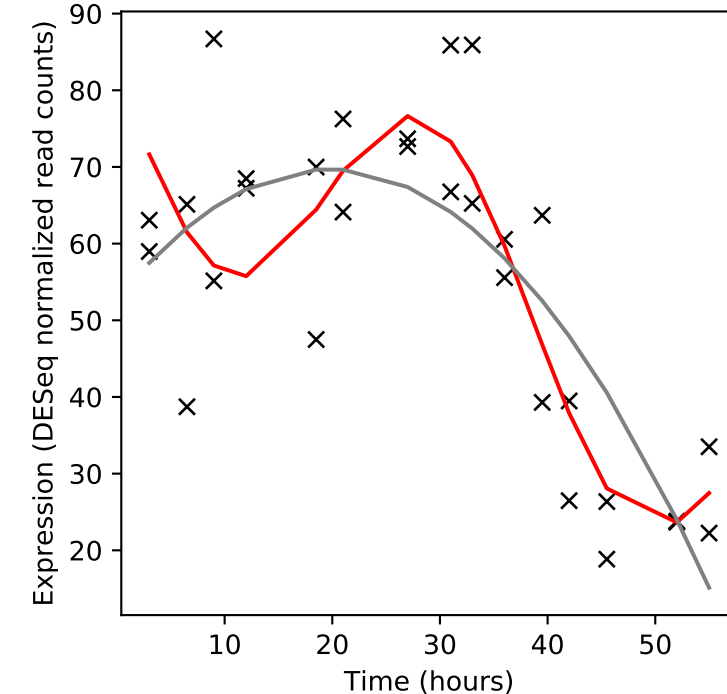
Rv3705c/-



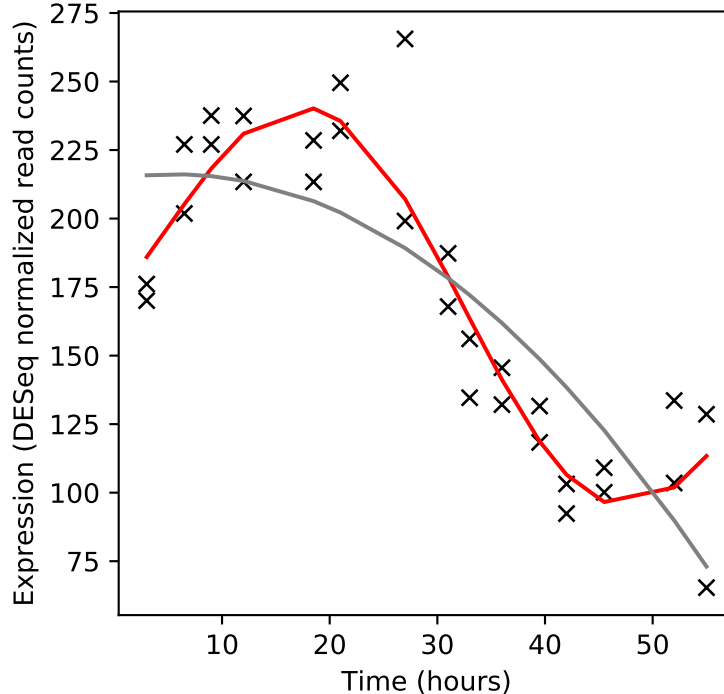
Rv3705A/-



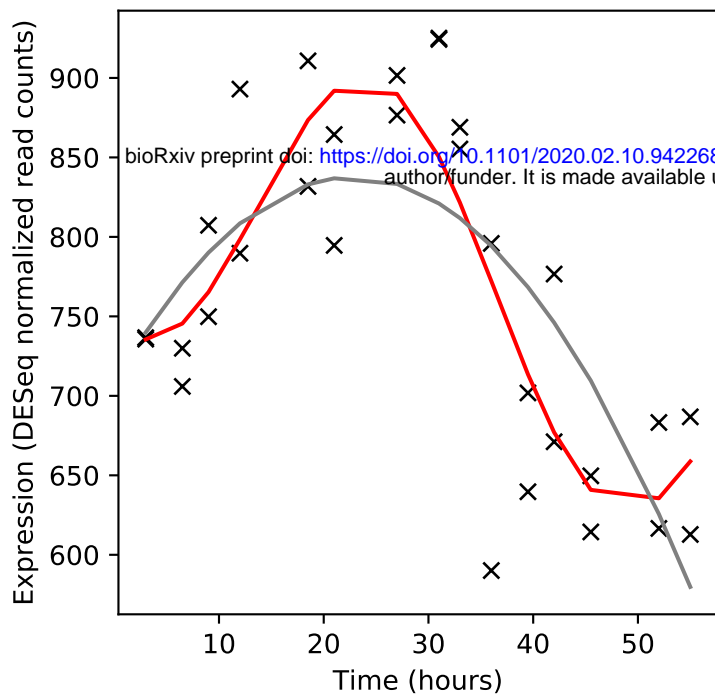
Rv3706c/-



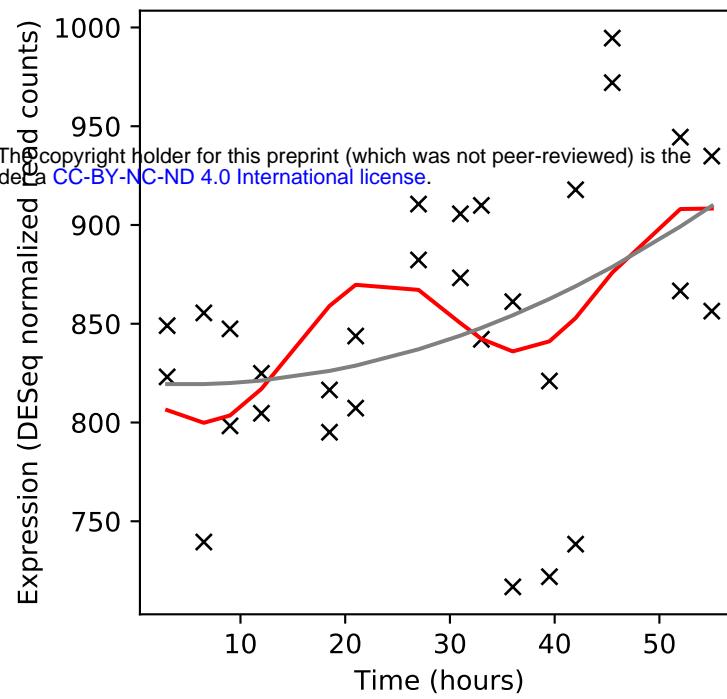
Rv3707c/-



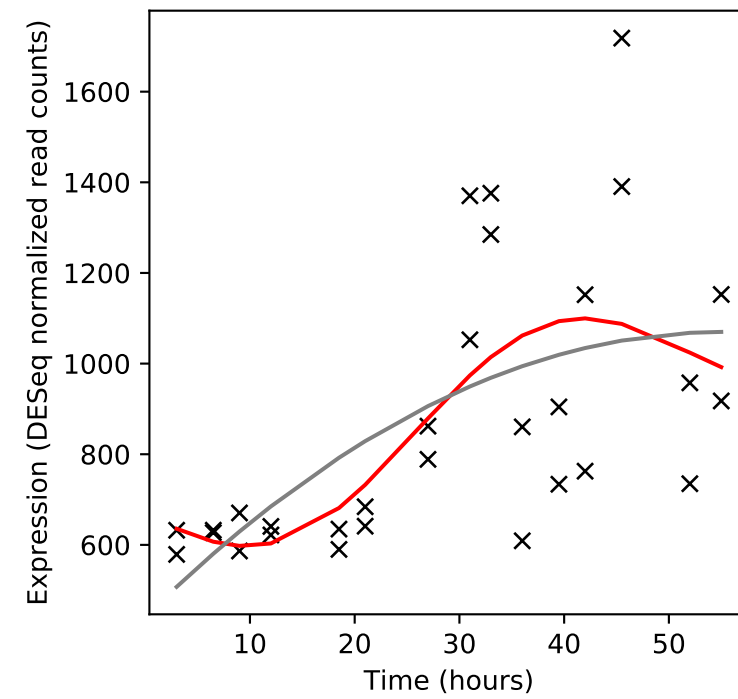
Rv3708c/asd



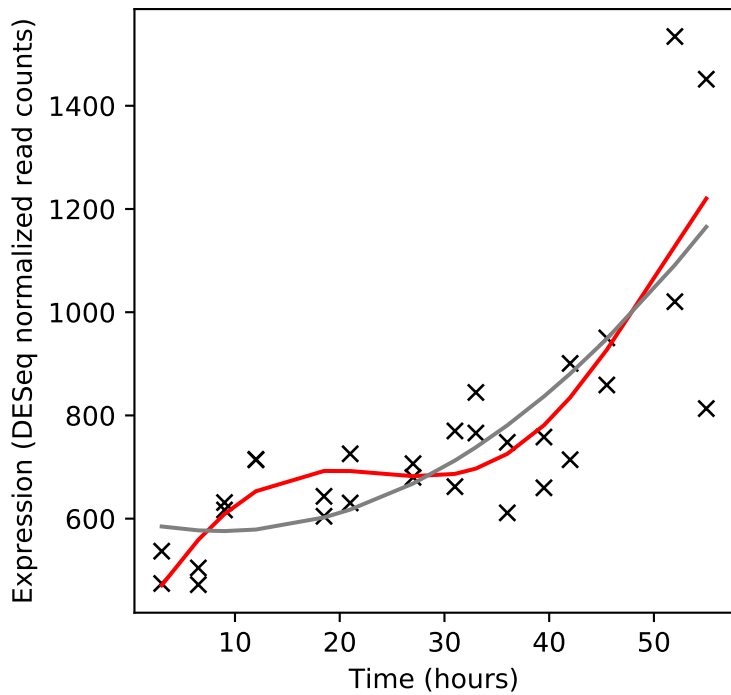
Rv3709c/ask



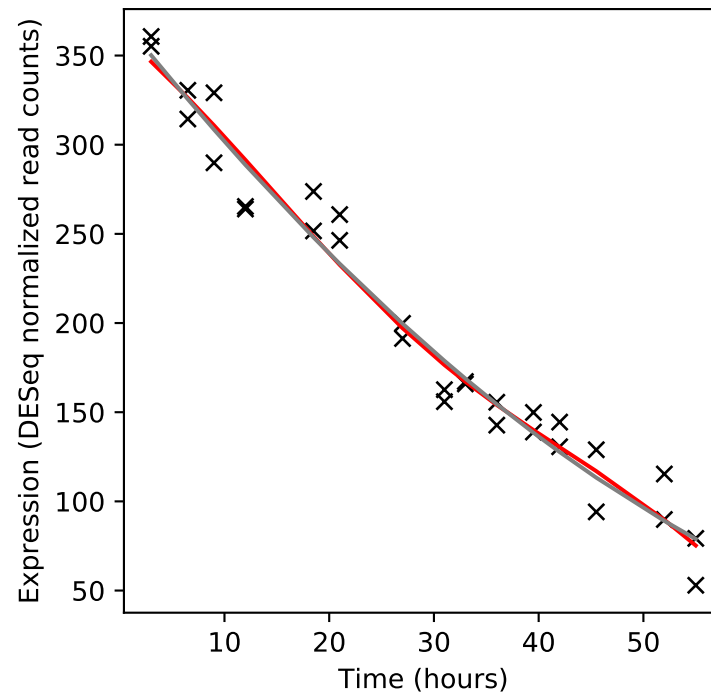
Rv3710/leuA



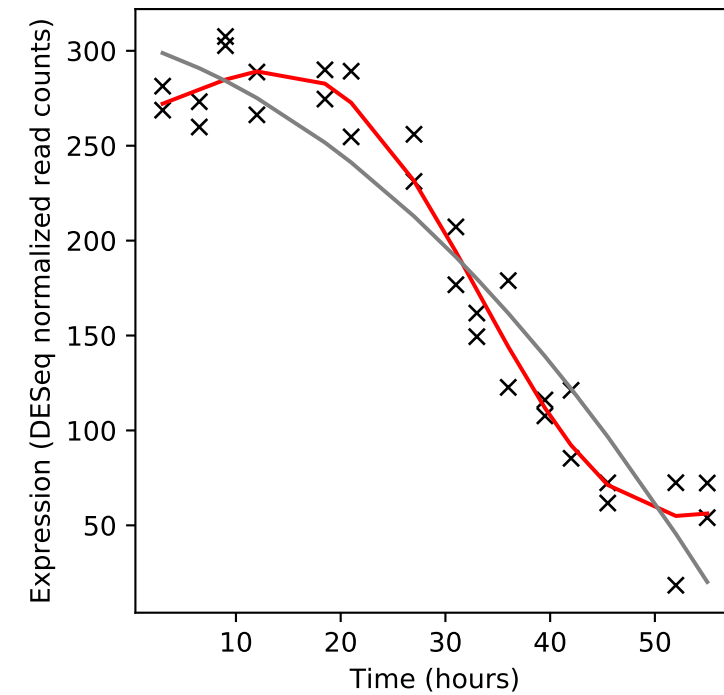
Rv3711c/dnaQ



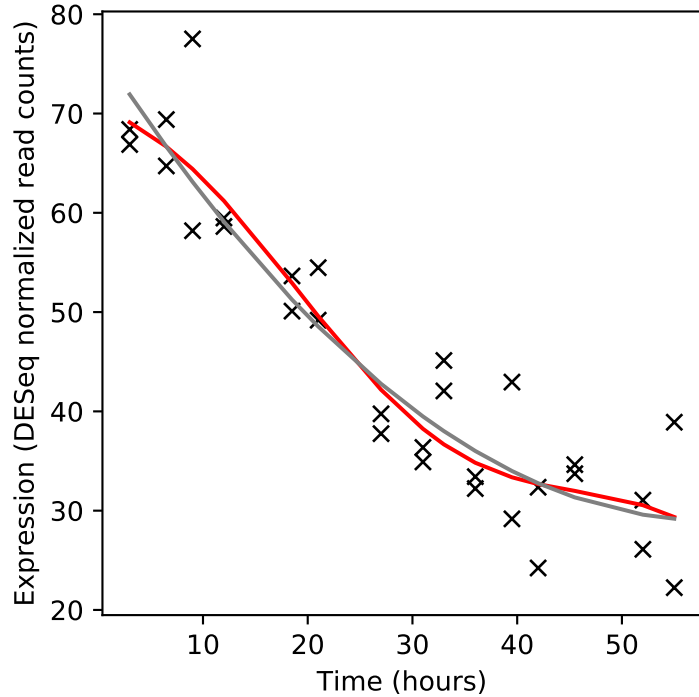
Rv3712/-



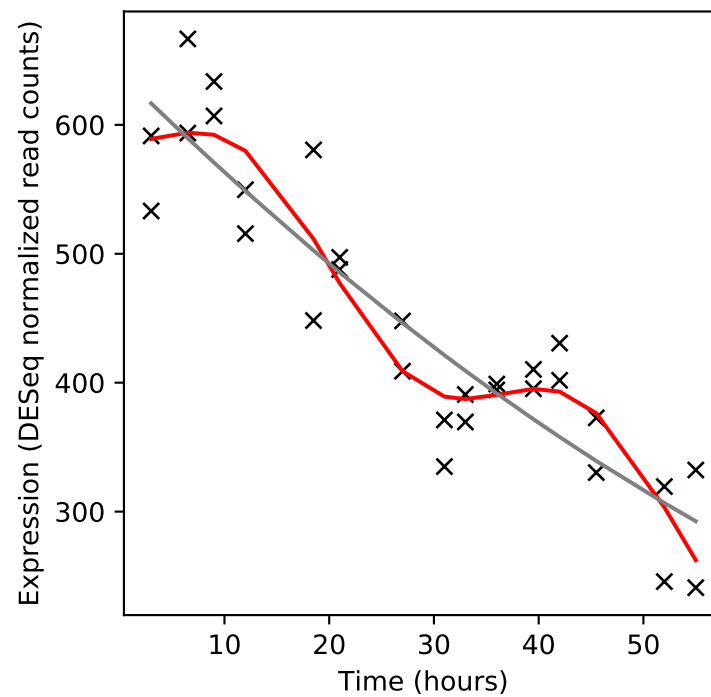
Rv3713/cobQ2



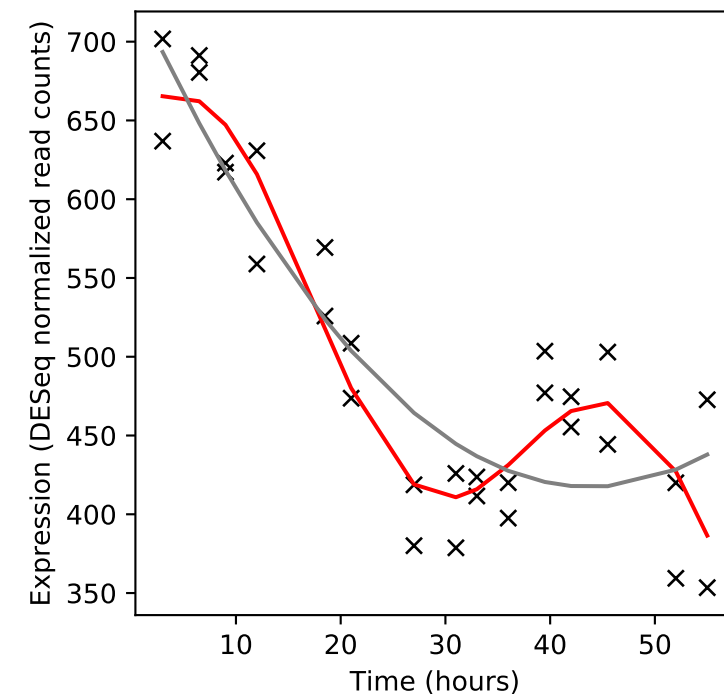
Rv3714c/-



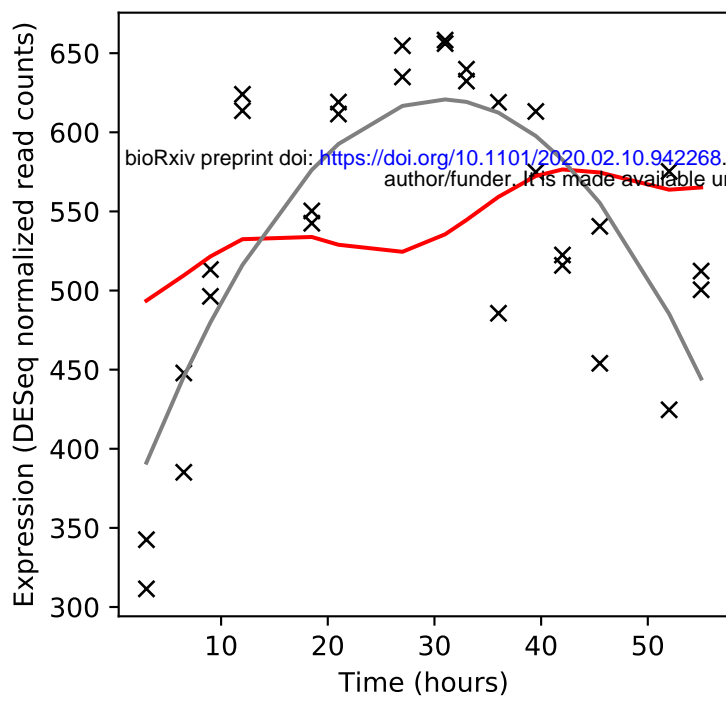
Rv3715c/recR



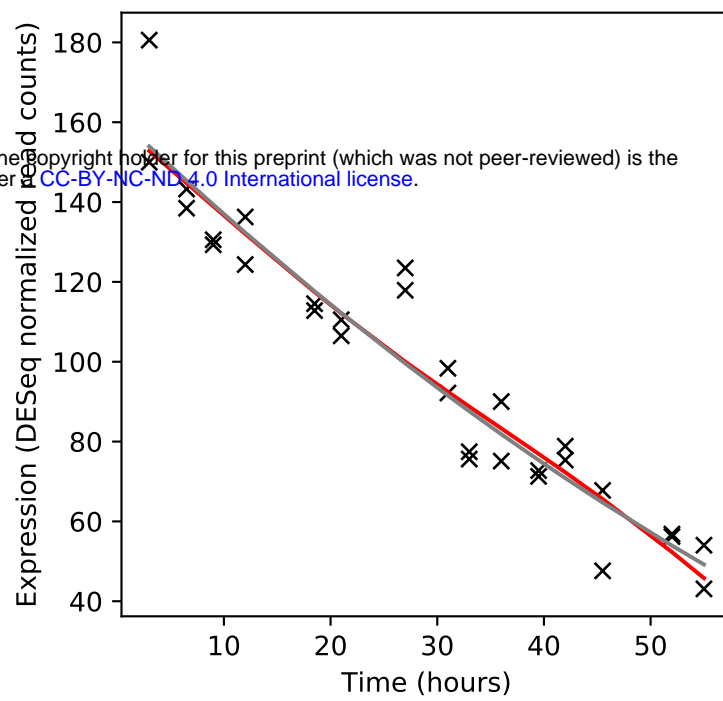
Rv3716c/-



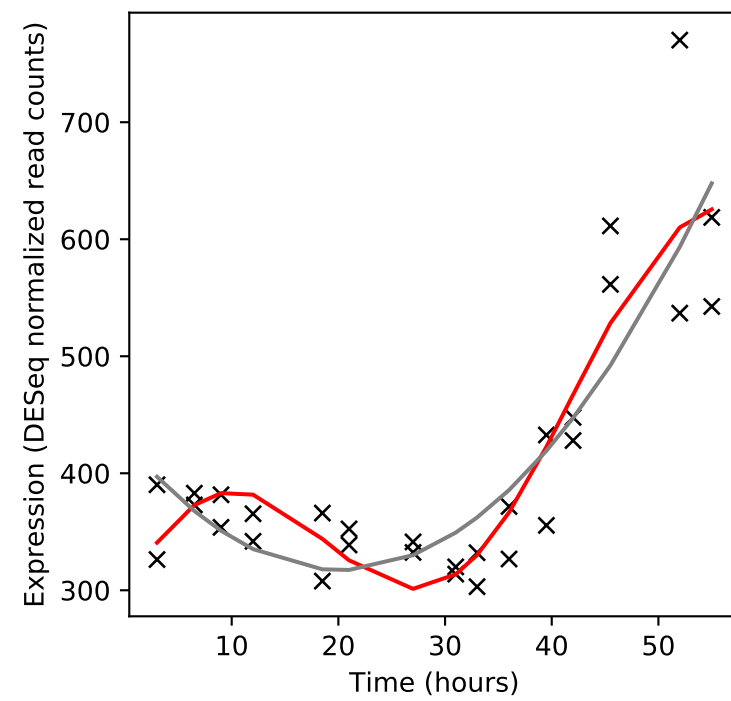
Rv3717/-



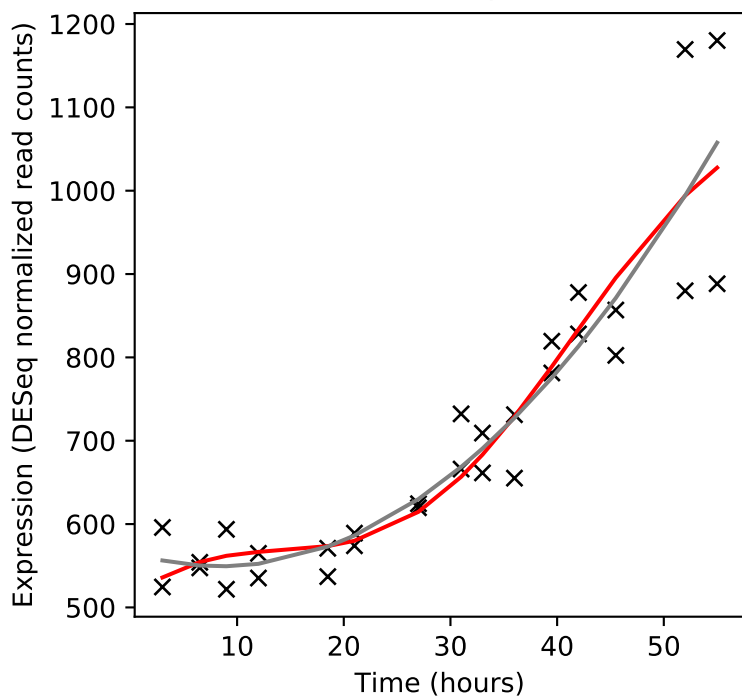
Rv3718c/-



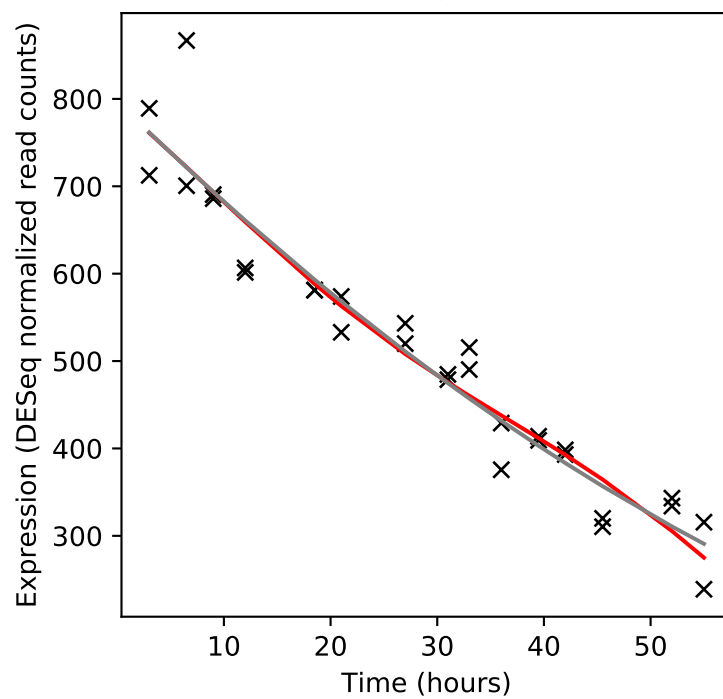
Rv3719/-



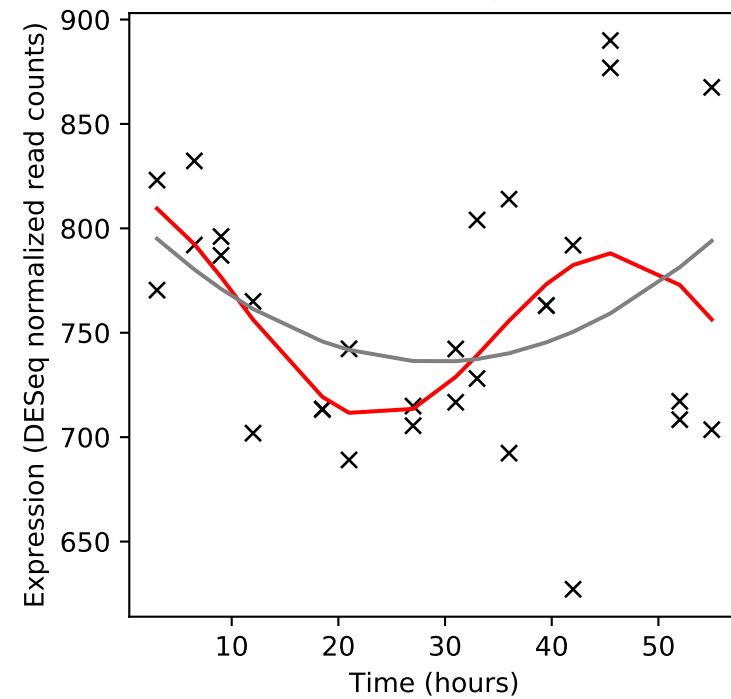
Rv3720/-



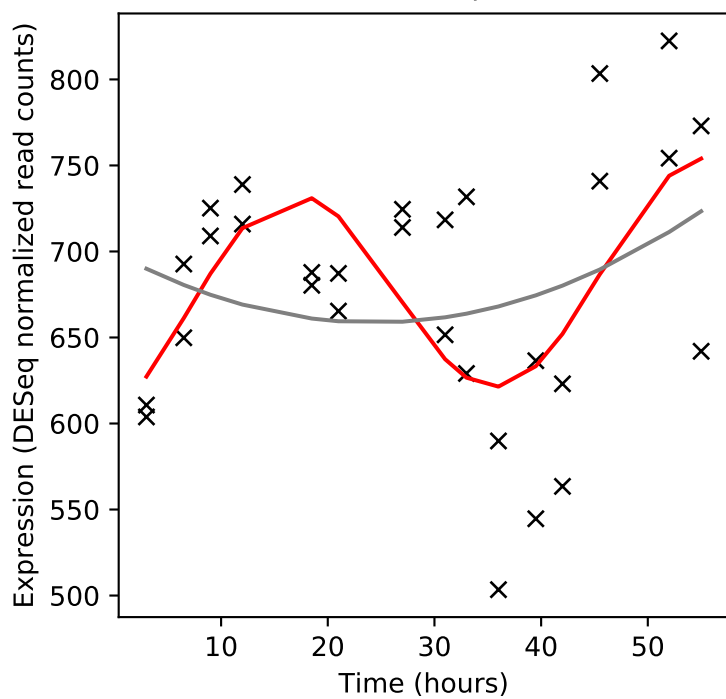
Rv3721c/dnaZX



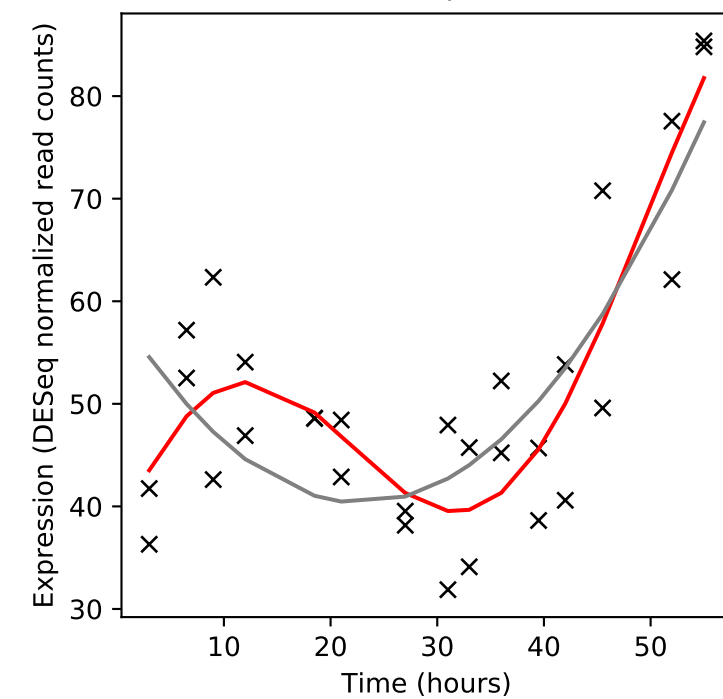
Rv3722c/-



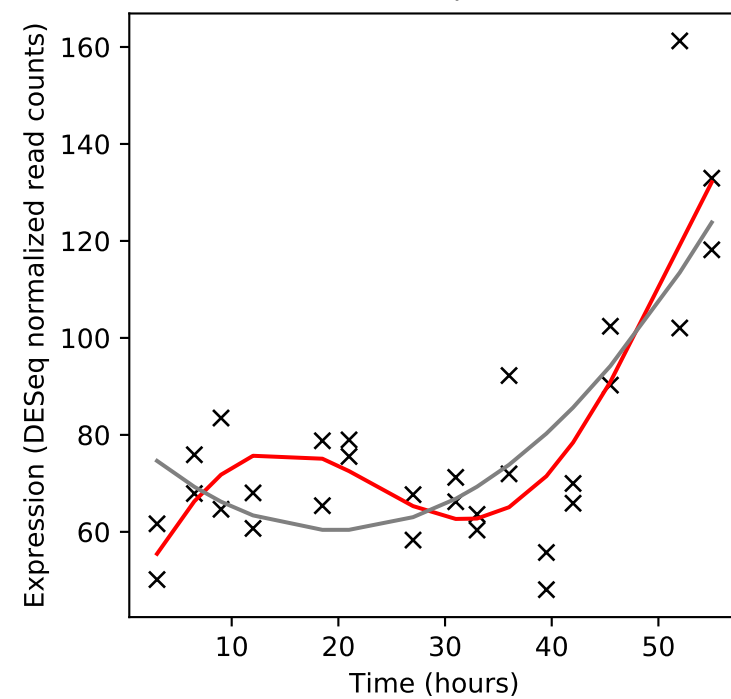
Rv3723/-



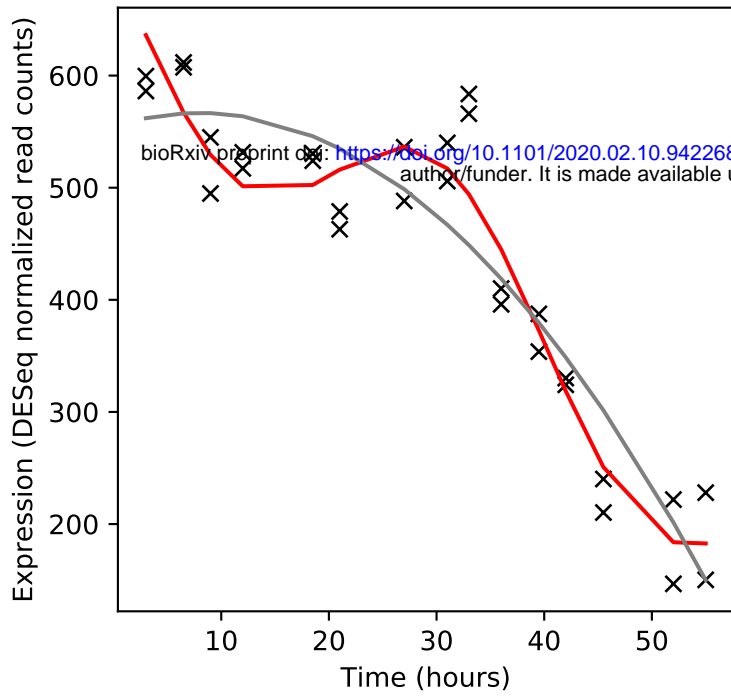
Rv3724A/cut5a



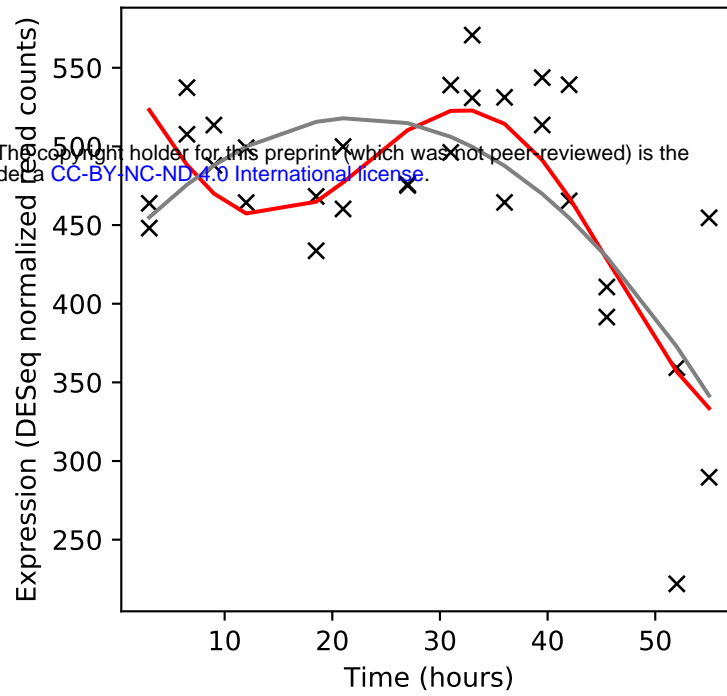
Rv3724B/cut5b



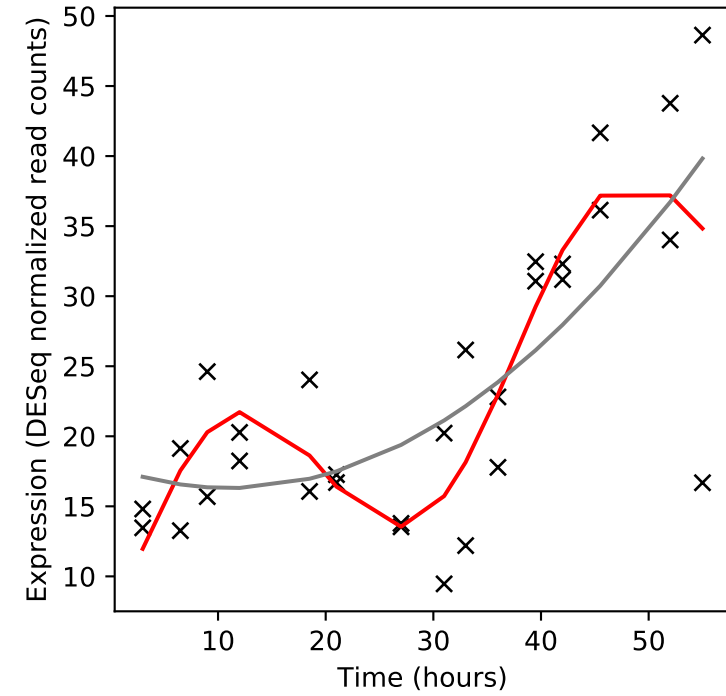
Rv3725/-



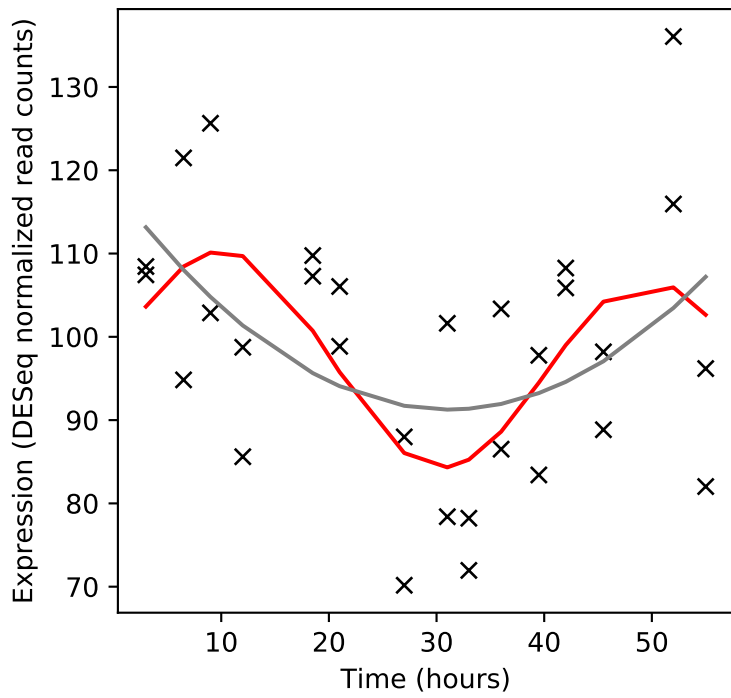
Rv3726/-



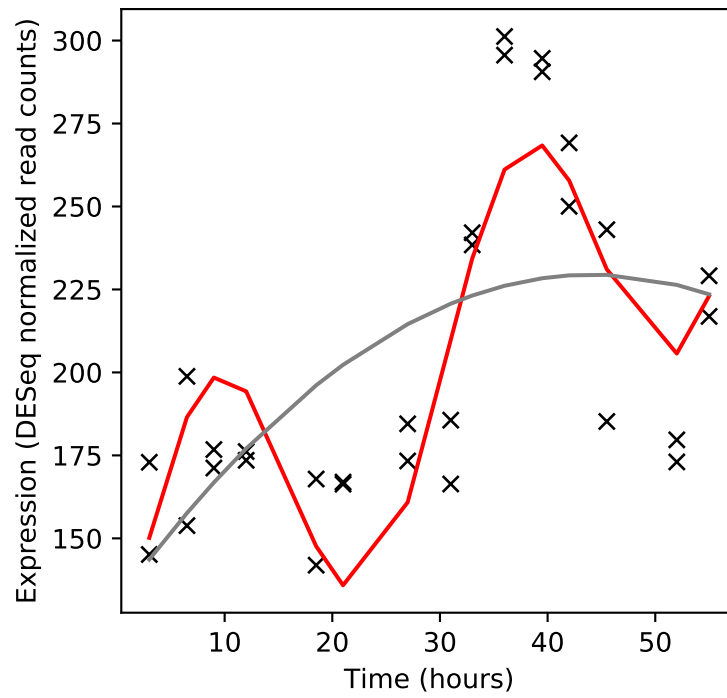
Rv3727/-



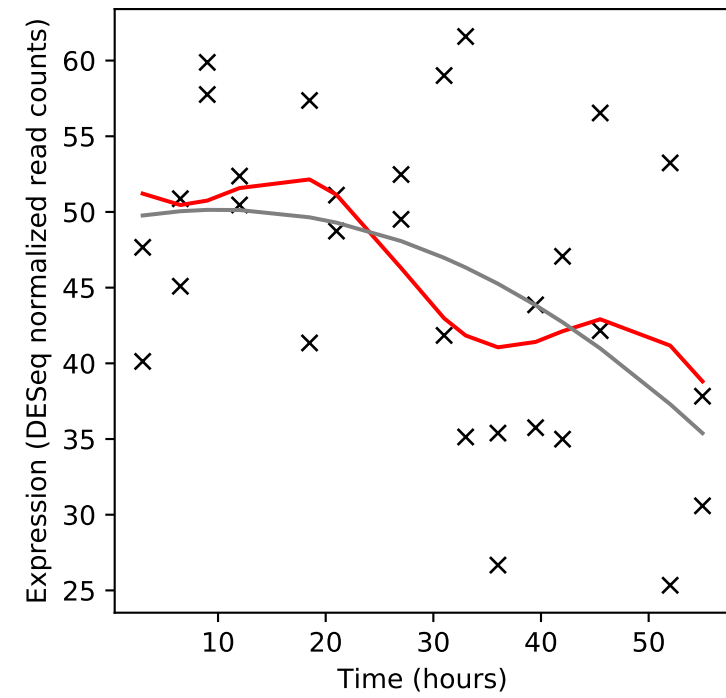
Rv3728/-



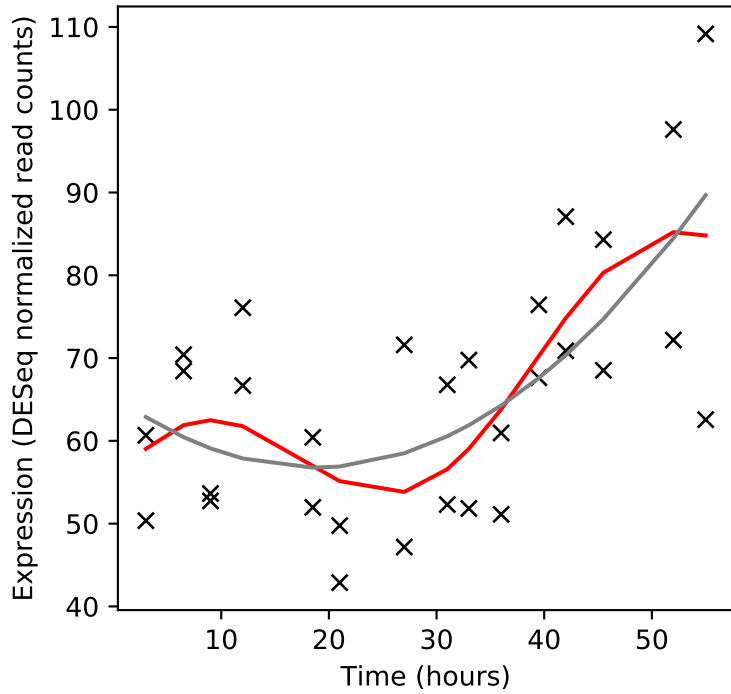
Rv3729/-



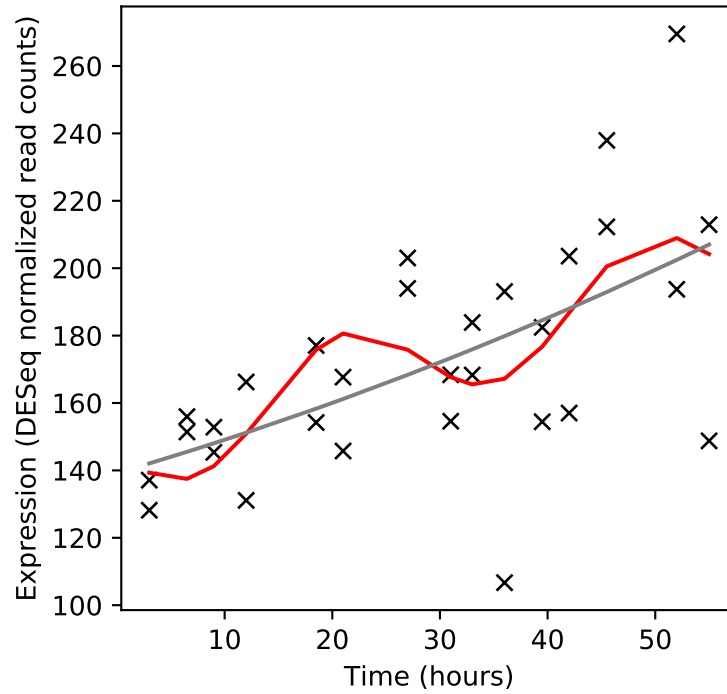
Rv3730c/-



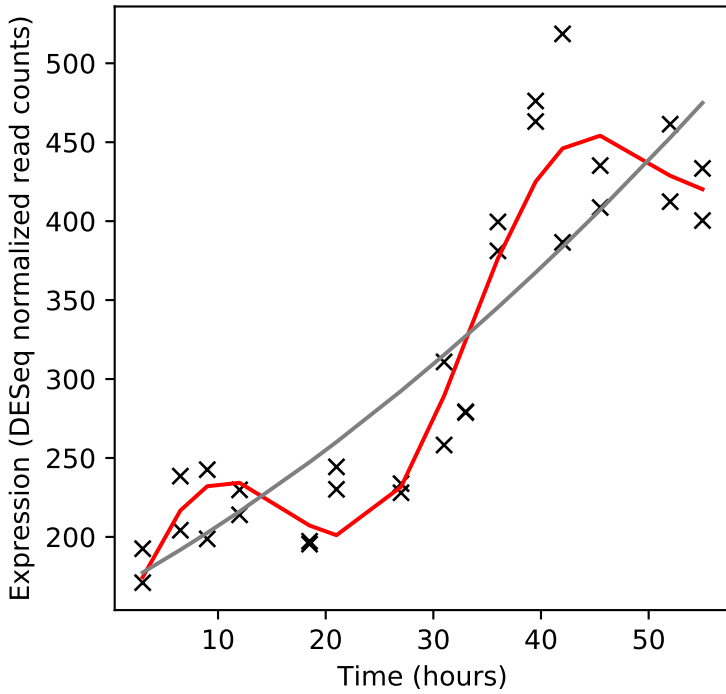
Rv3731/ligC



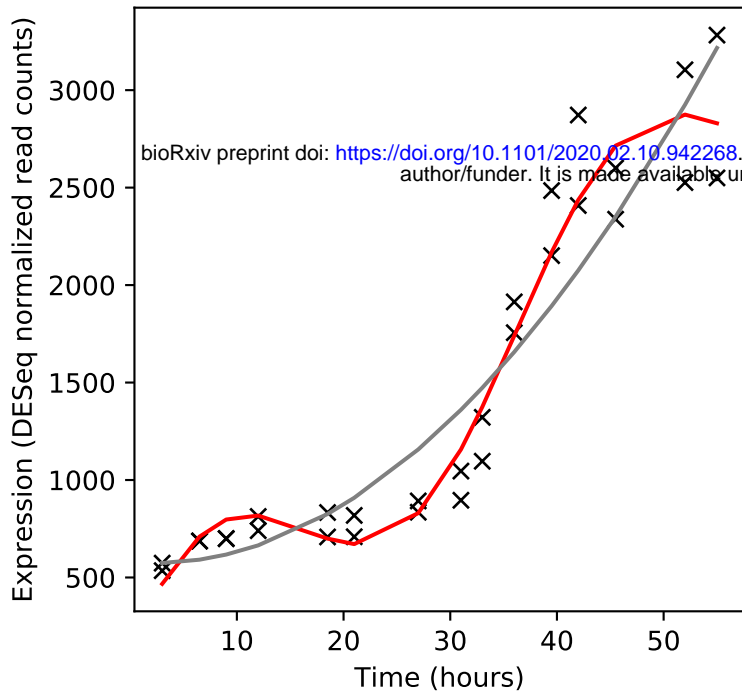
Rv3732/-



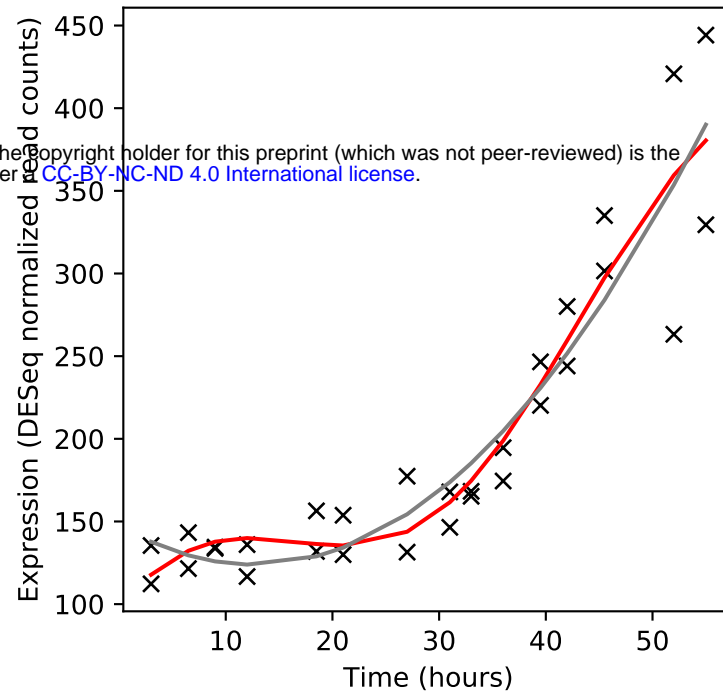
Rv3733c/-



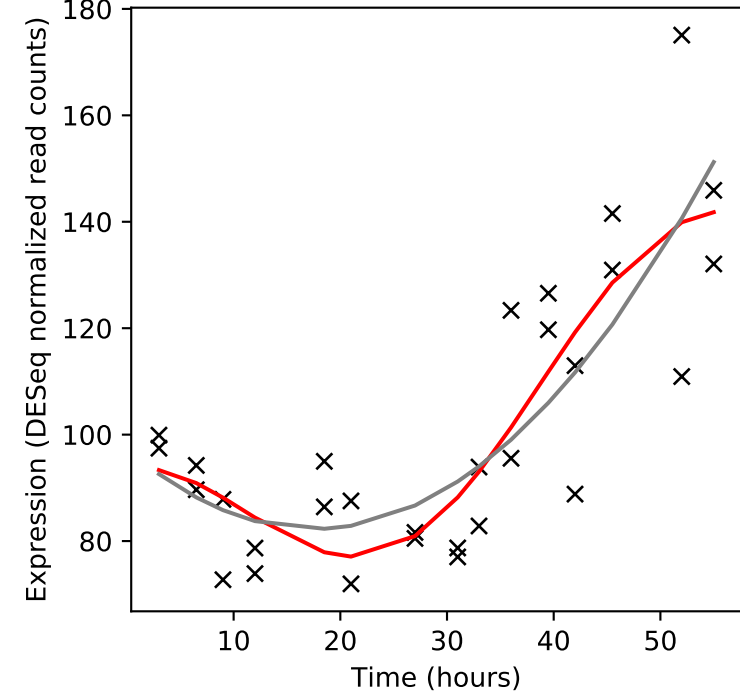
Rv3734c/tgs2



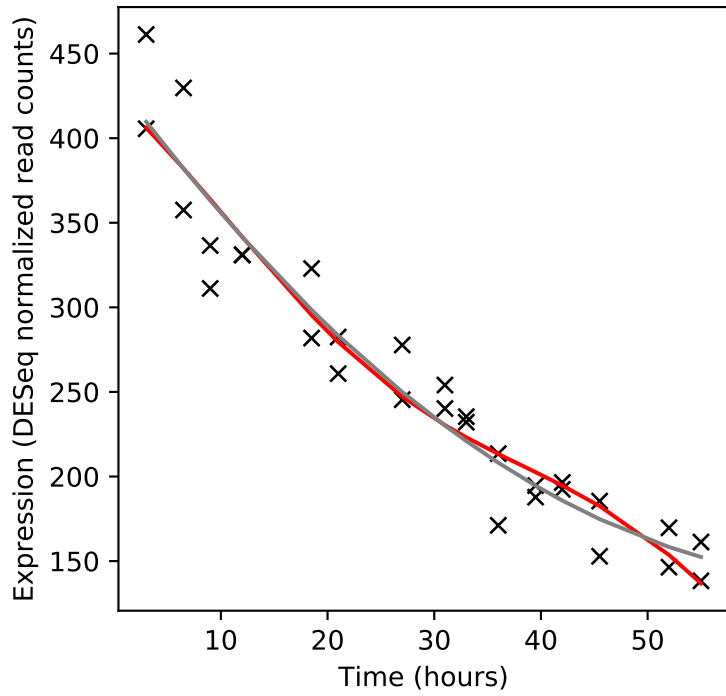
Rv3735/-



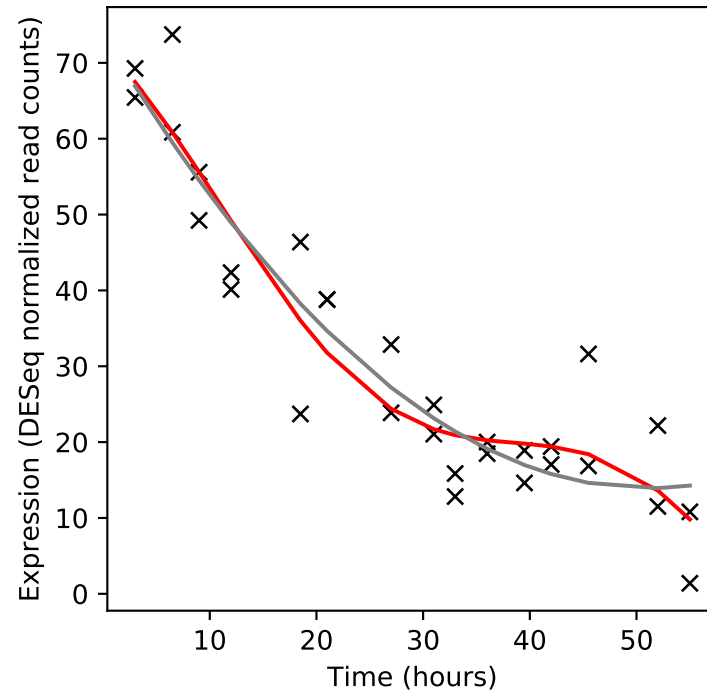
Rv3736/-



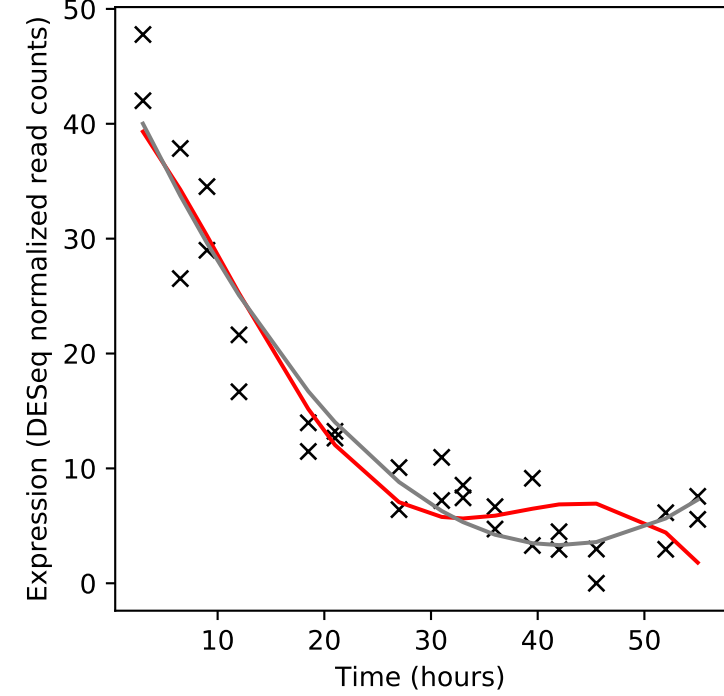
Rv3737/-



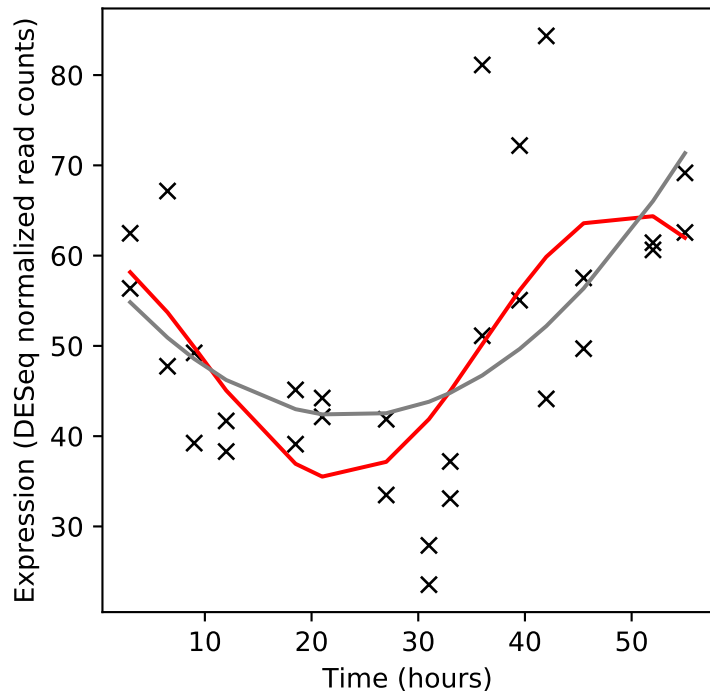
Rv3738c/PPE66



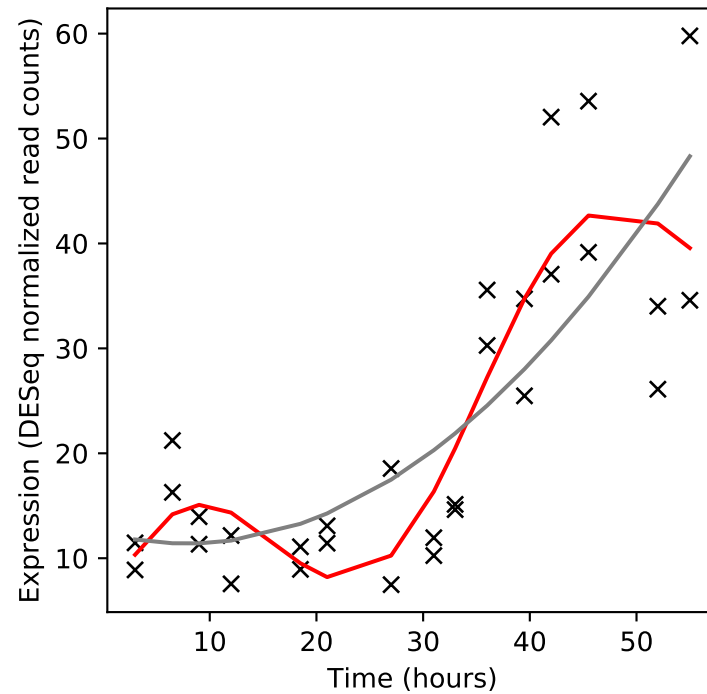
Rv3739c/PPE67



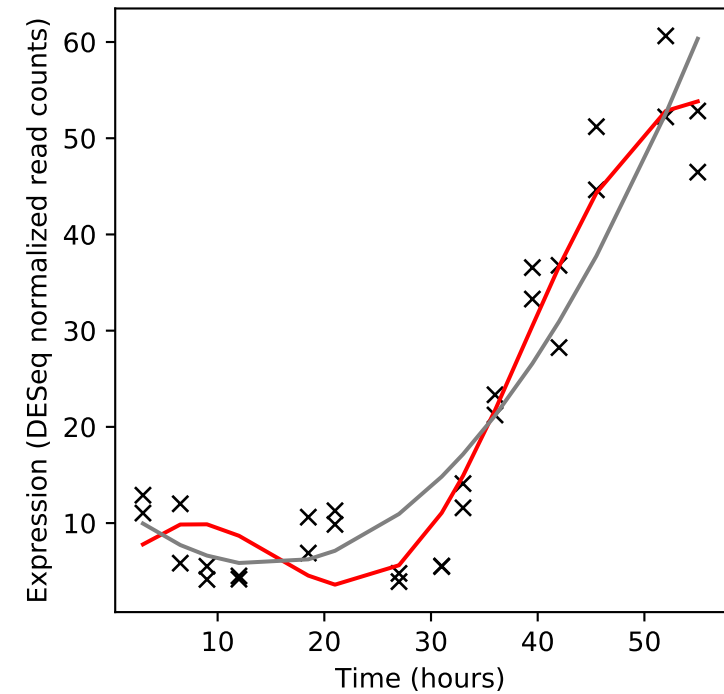
Rv3740c/-



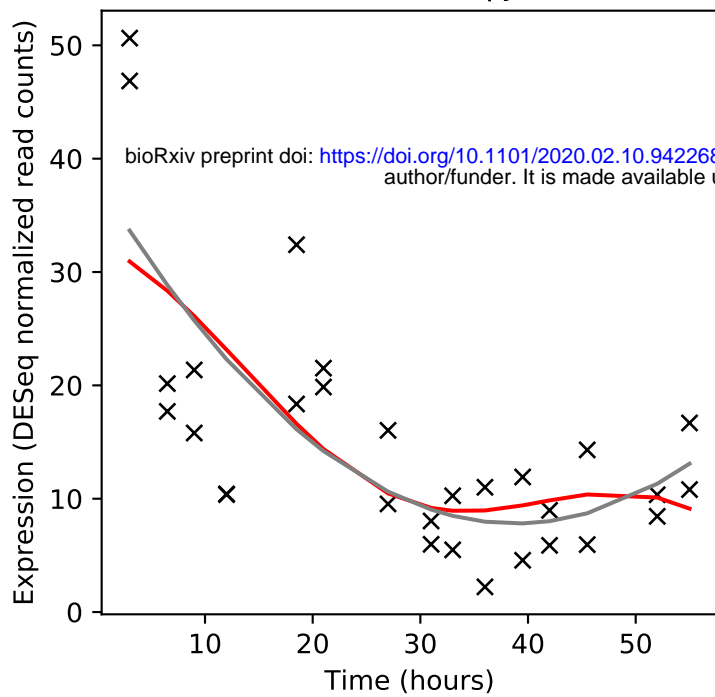
Rv3741c/-



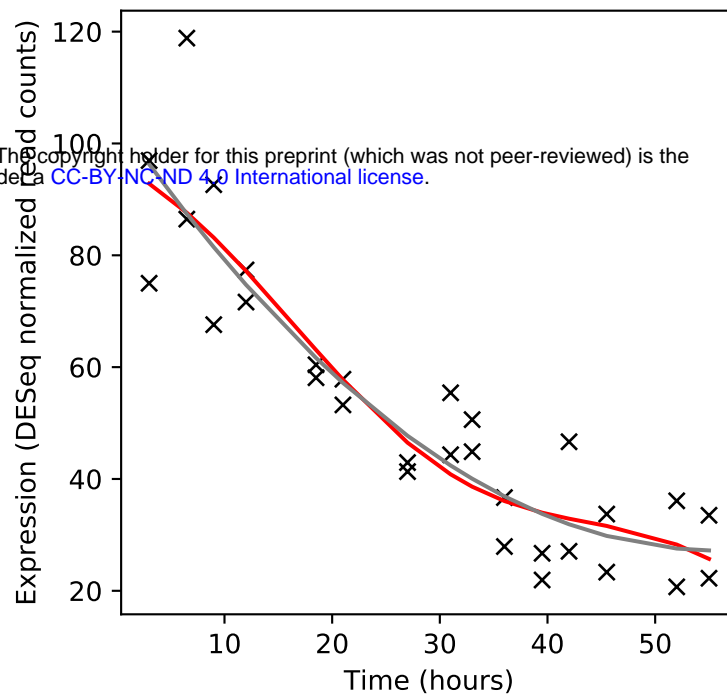
Rv3742c/-



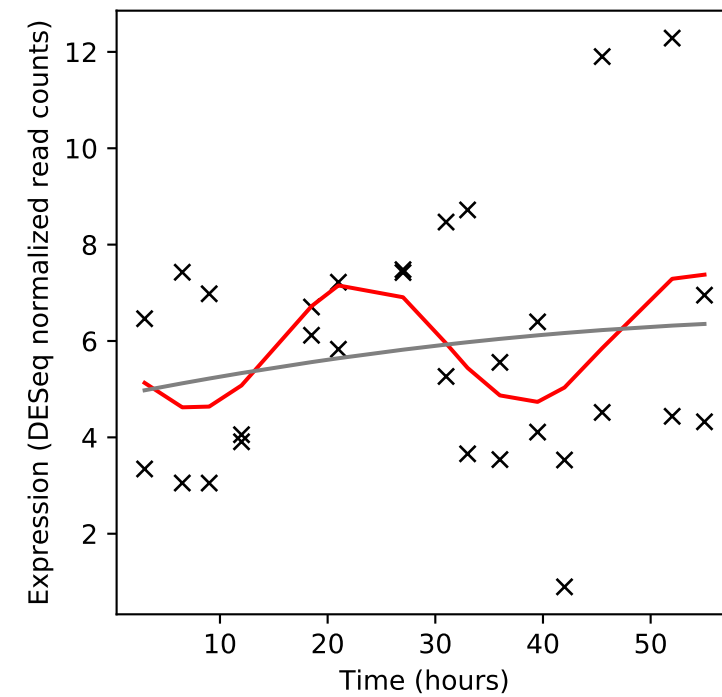
Rv3743c/ctpj



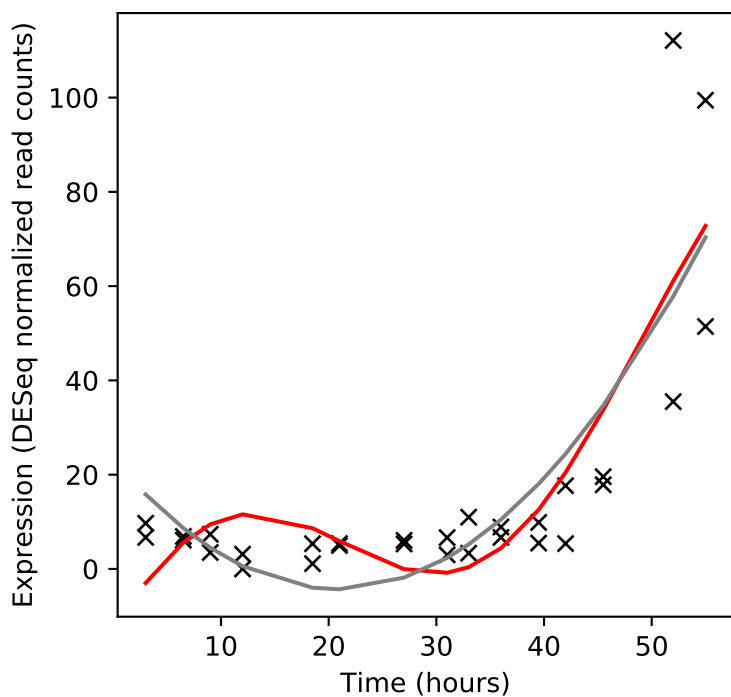
Rv3744/nmtR



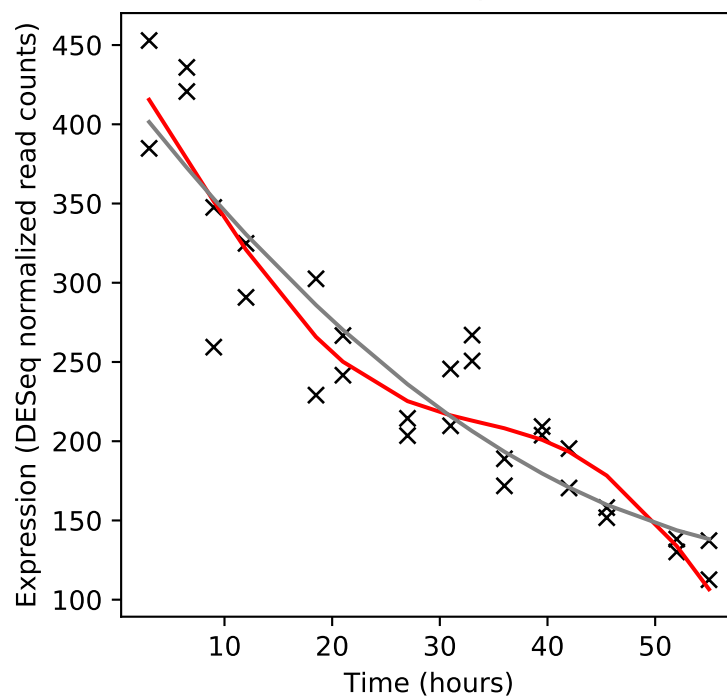
Rv3745c/-



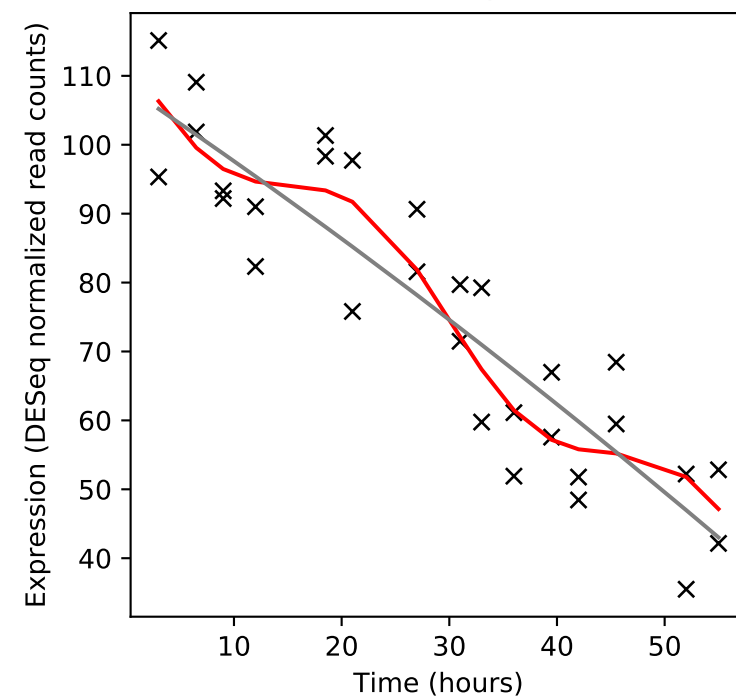
Rv3746c/PE34



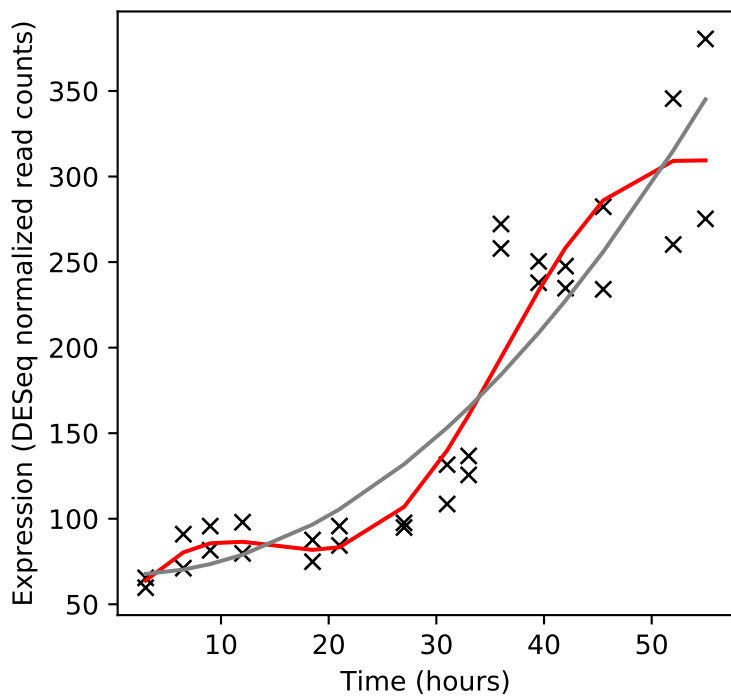
Rv3747/-



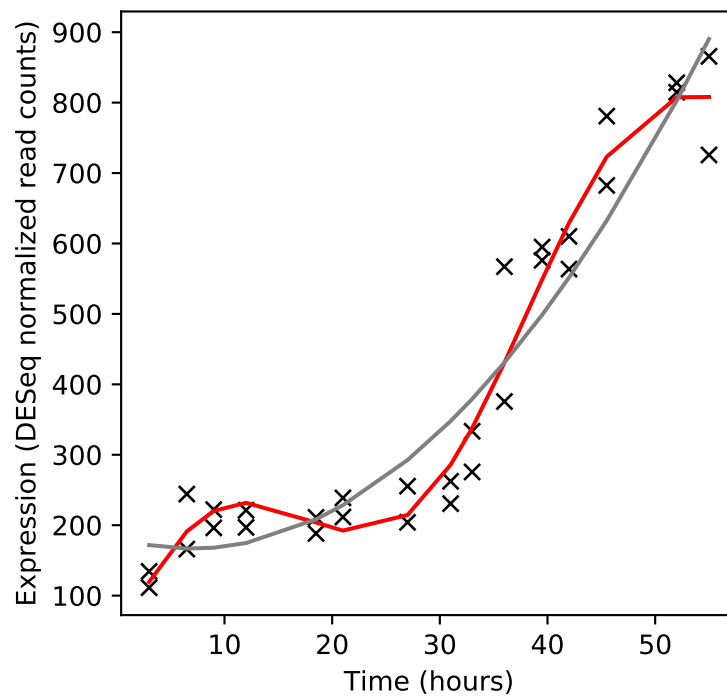
Rv3748/-



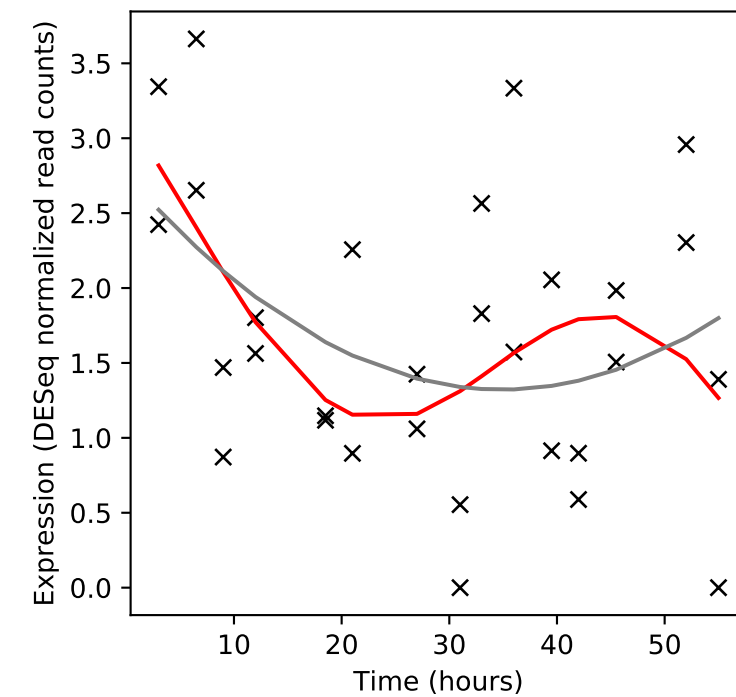
Rv3749c/-



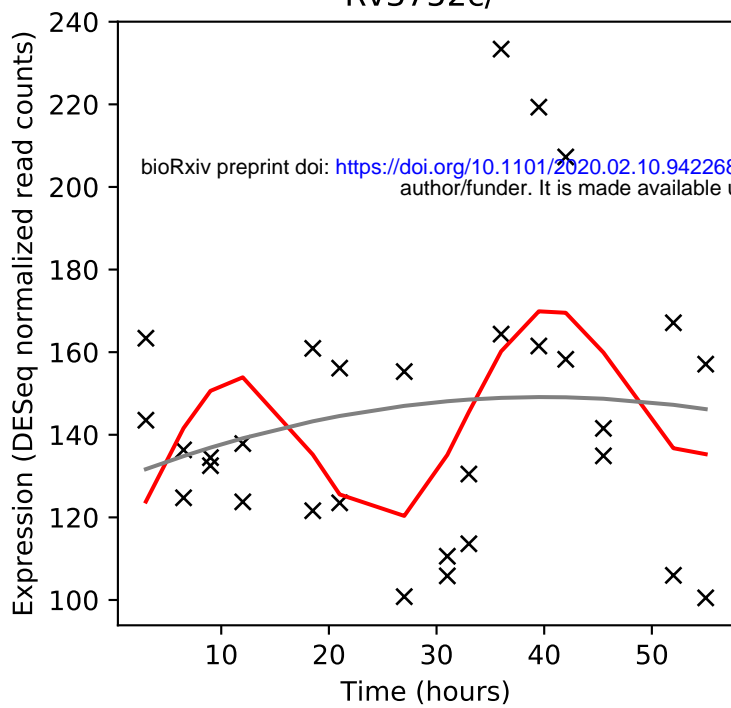
Rv3750c/-



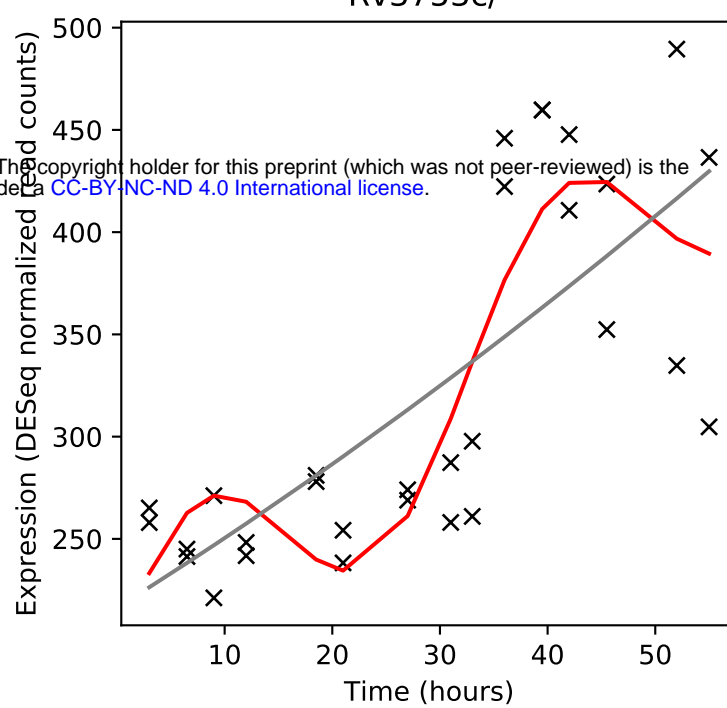
Rv3751/-



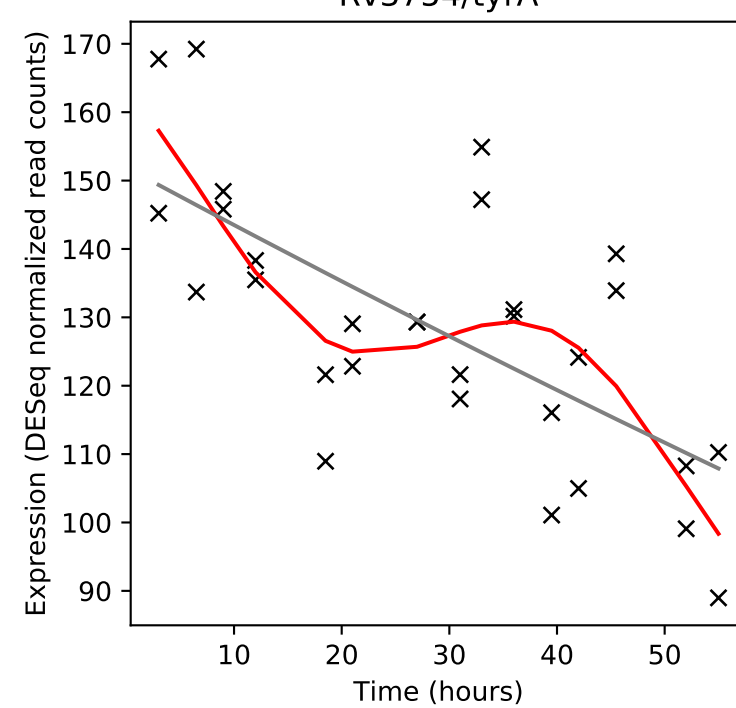
Rv3752c/-



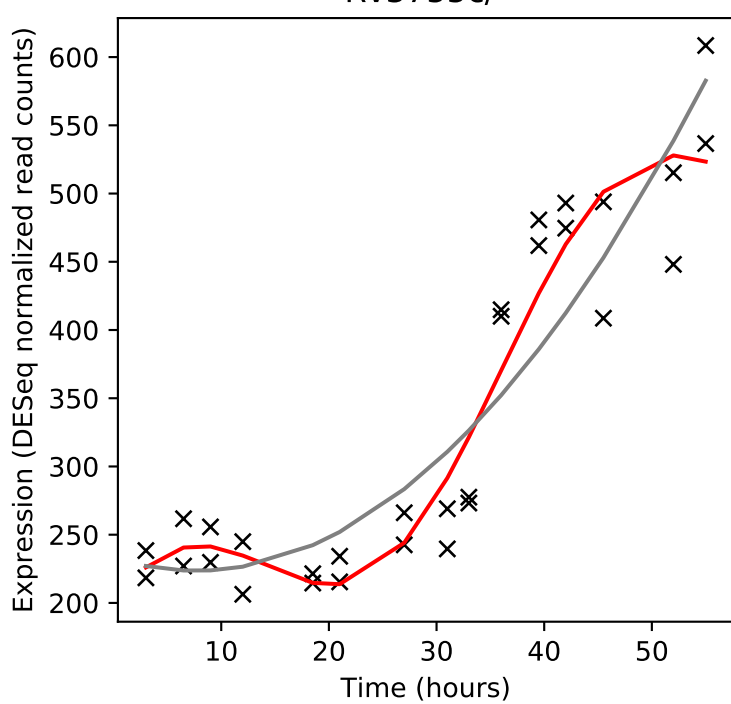
Rv3753c/-



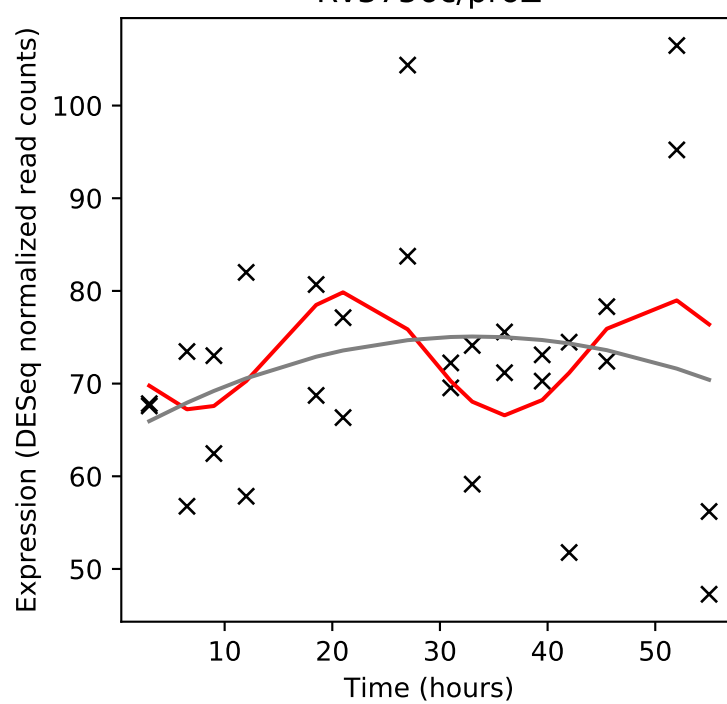
Rv3754/tyrA



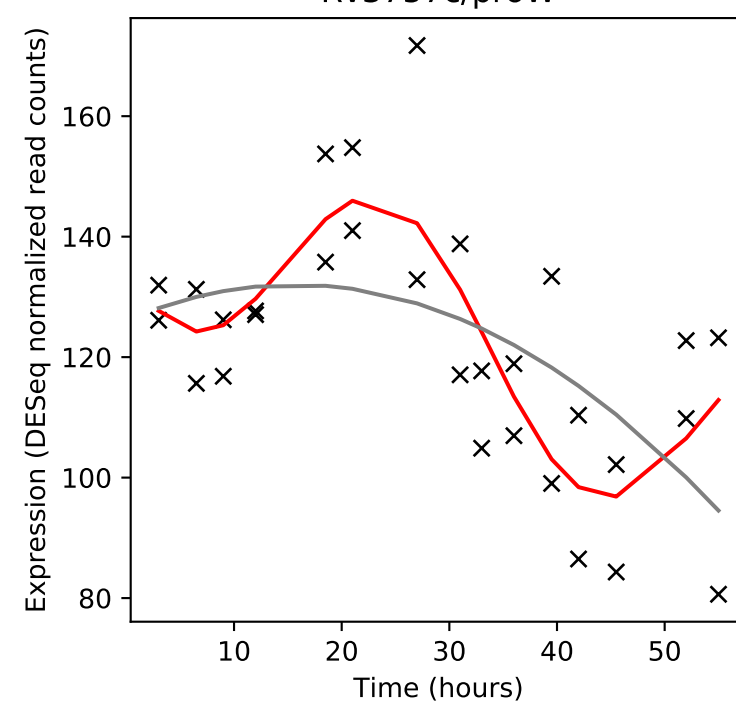
Rv3755c/-



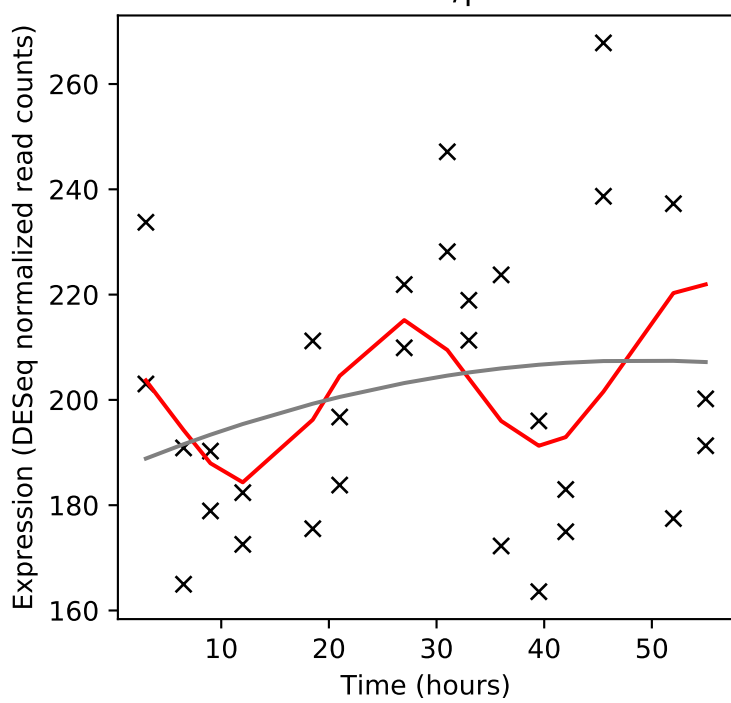
Rv3756c/proZ



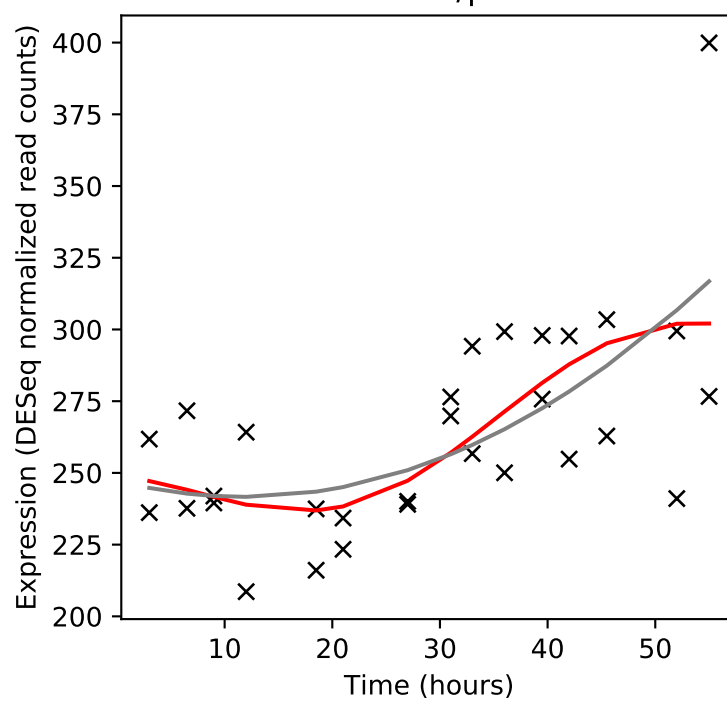
Rv3757c/proW



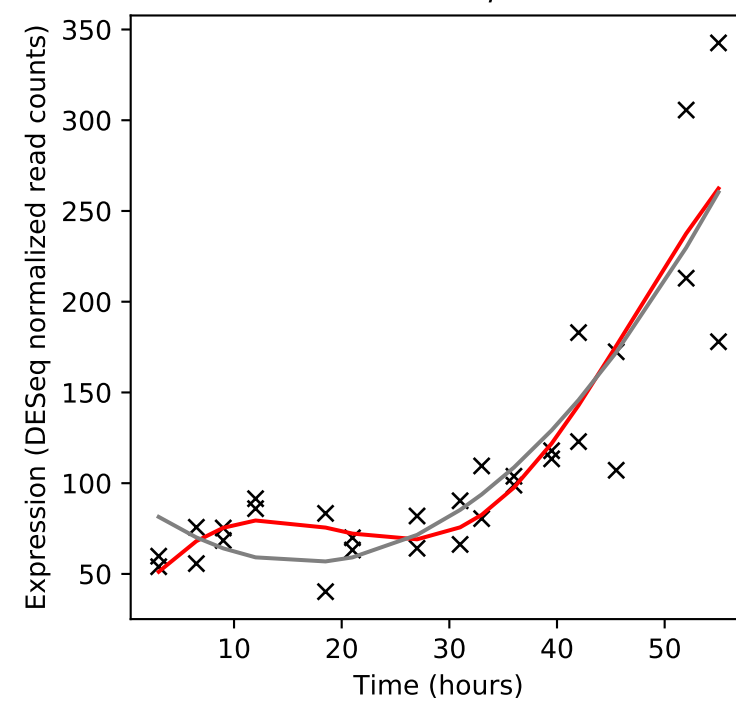
Rv3758c/proV



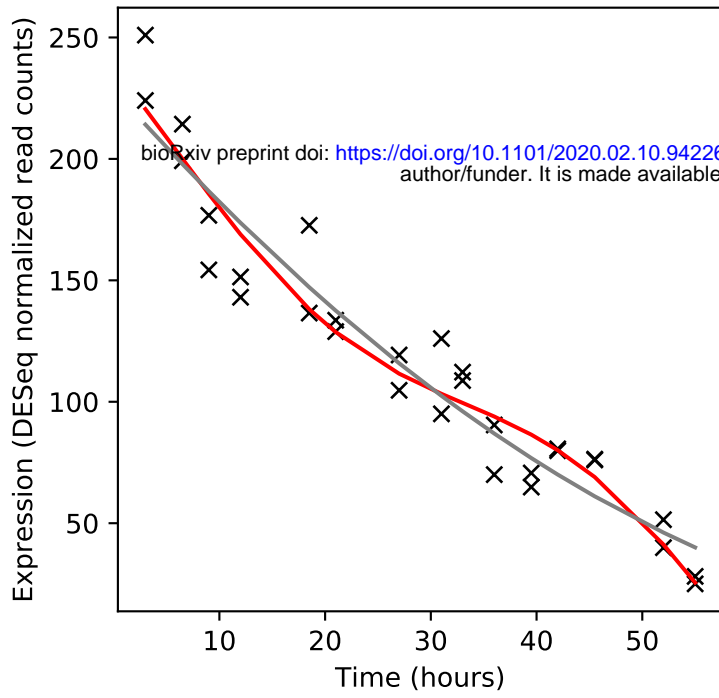
Rv3759c/proX



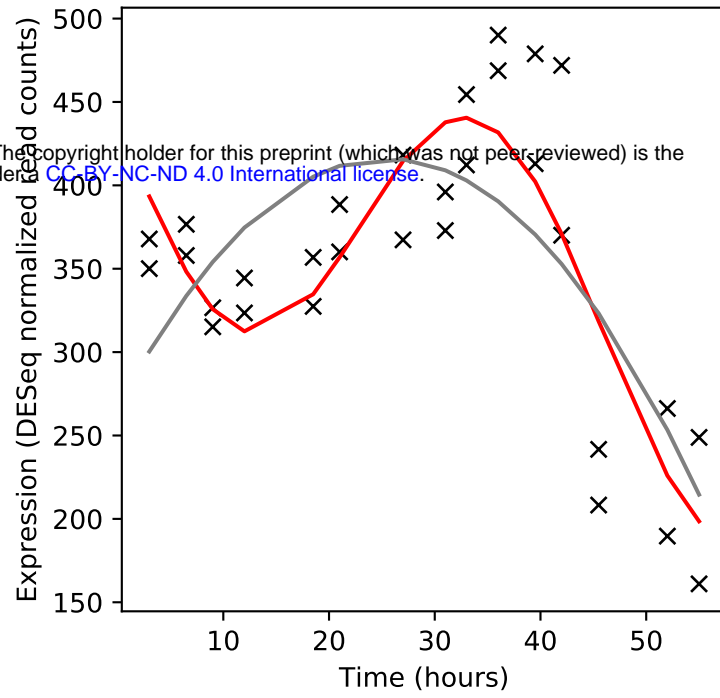
Rv3760/-



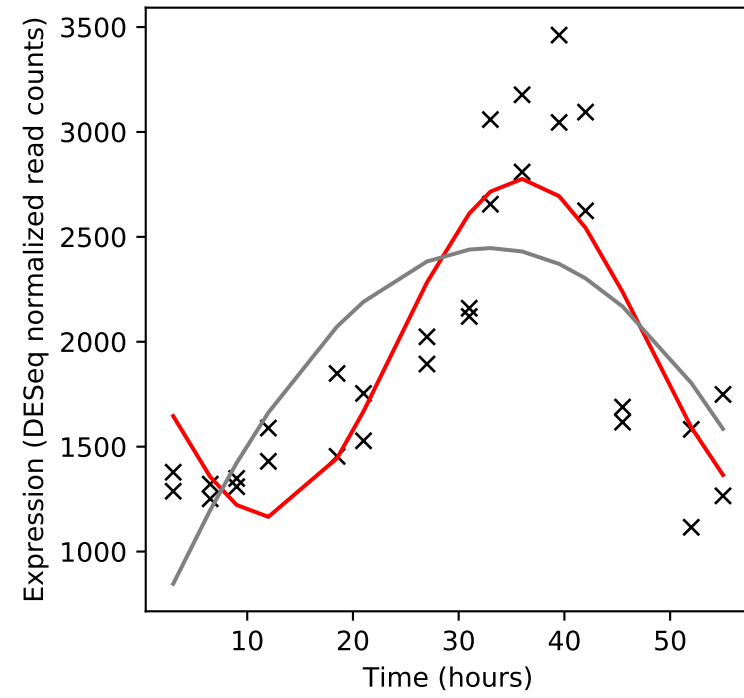
Rv3761c/fadE36



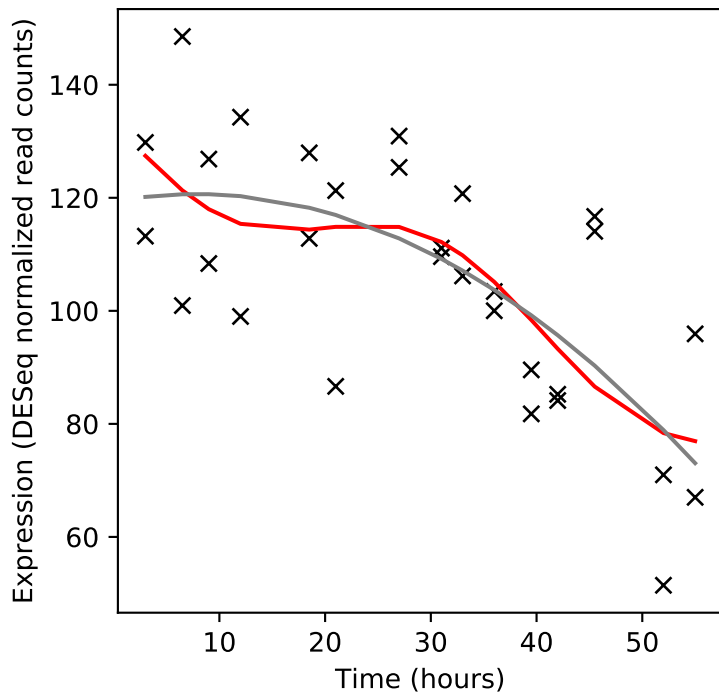
Rv3762c/-



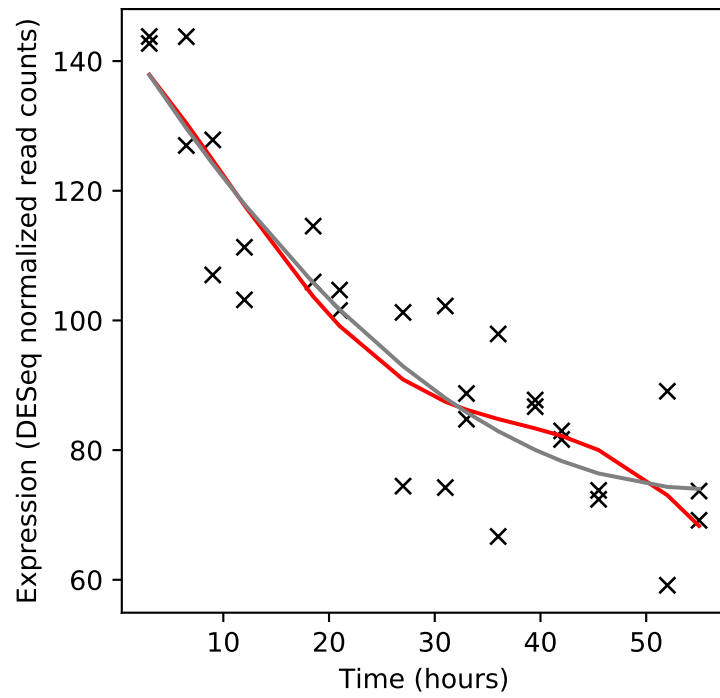
Rv3763/lpqH



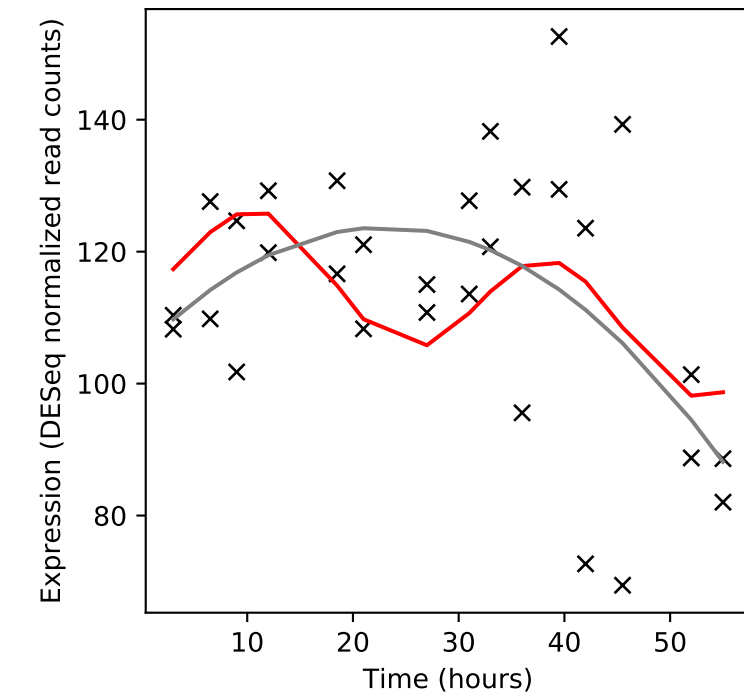
Rv3764c/tcrY



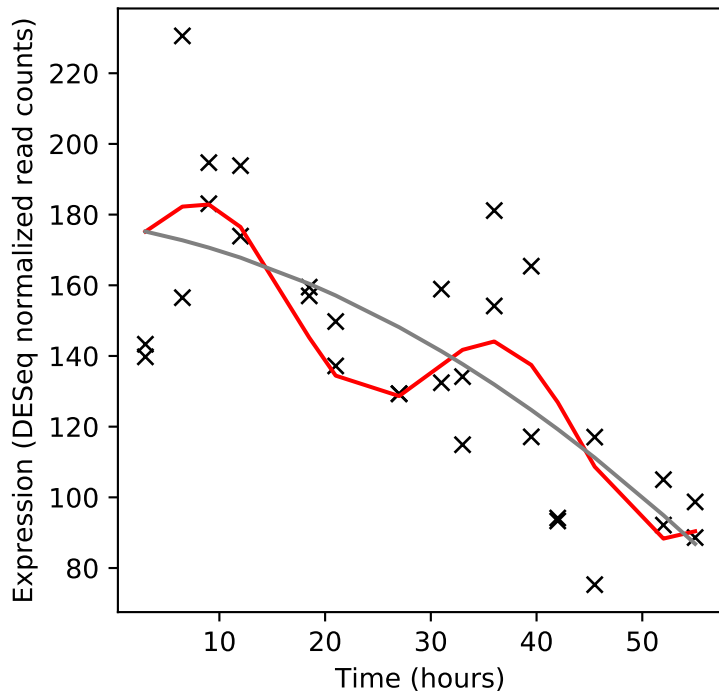
Rv3765c/tcrX



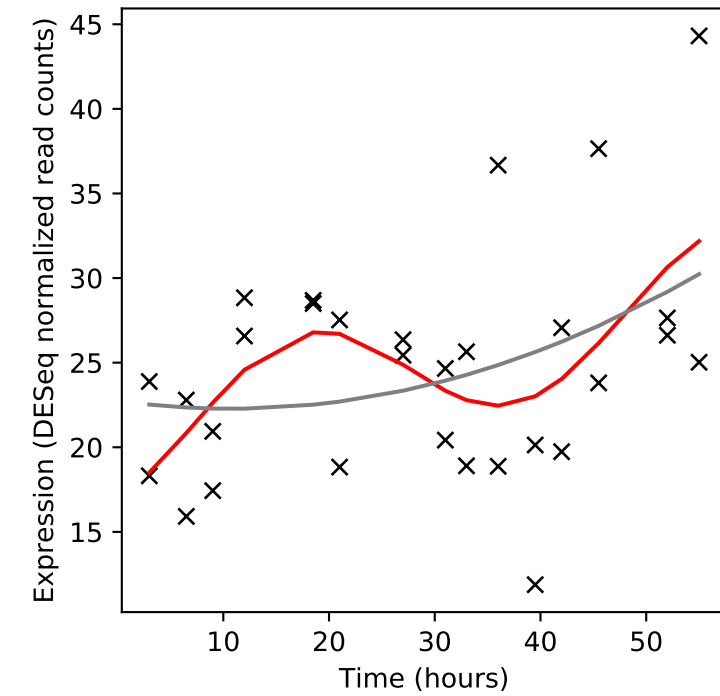
Rv3766/-



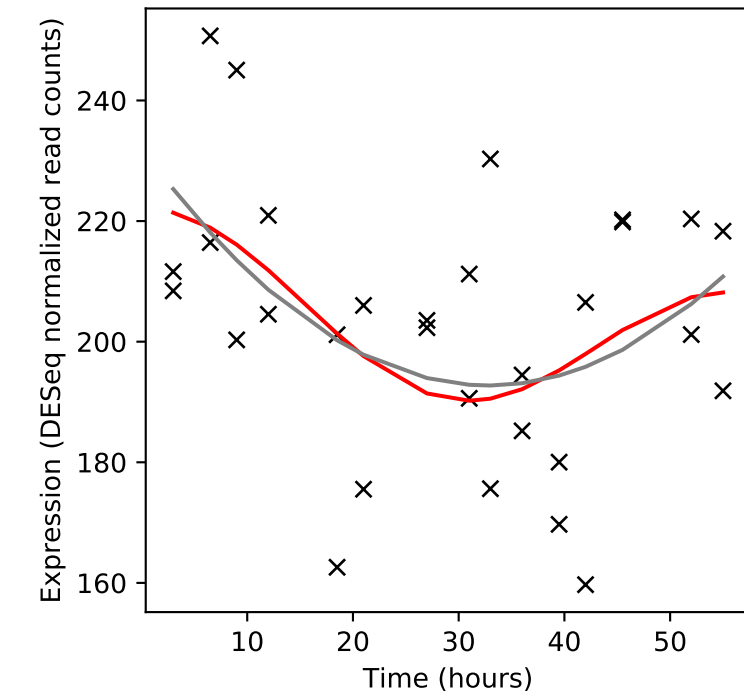
Rv3767c/-

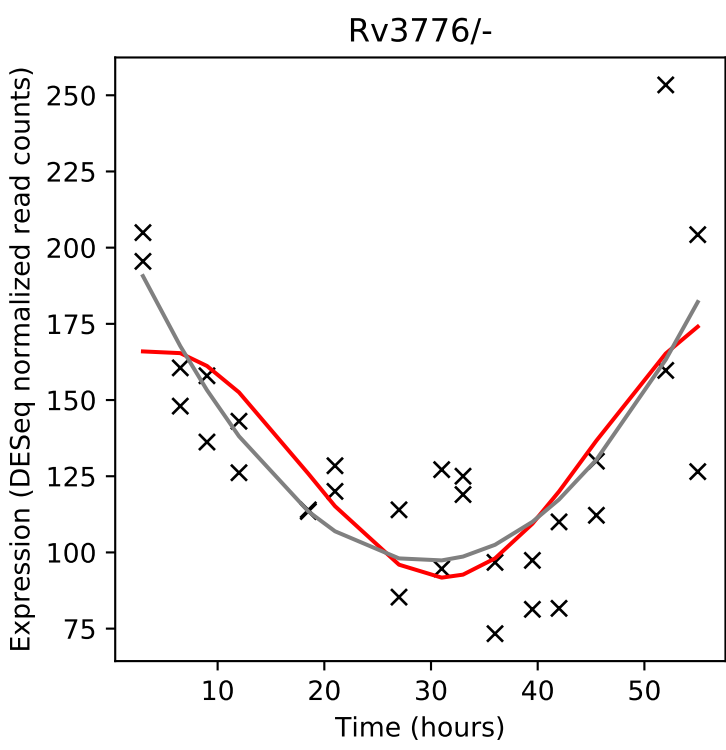
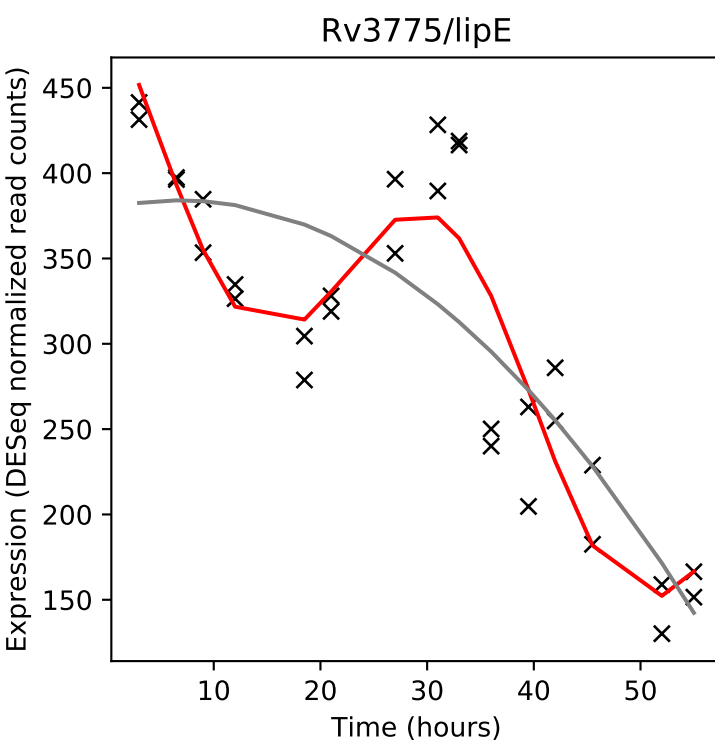
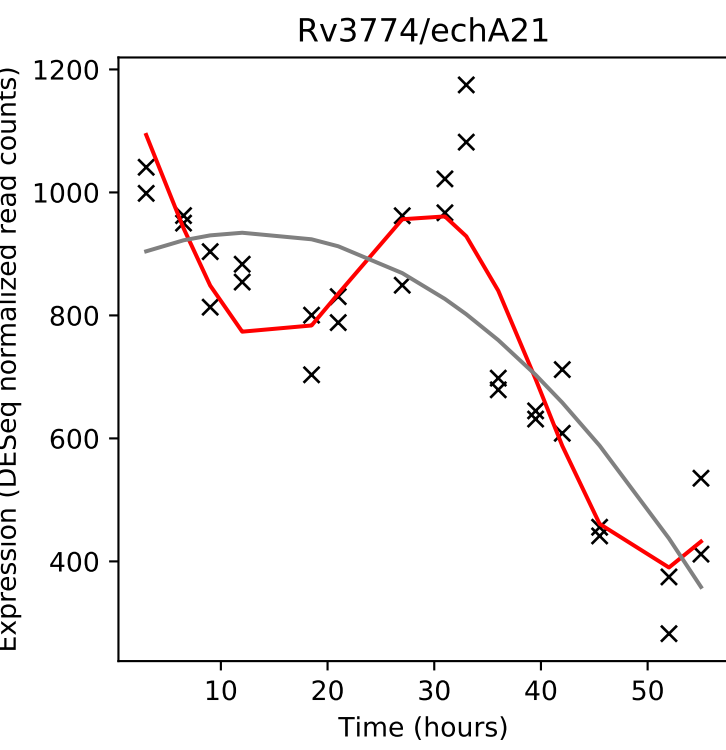
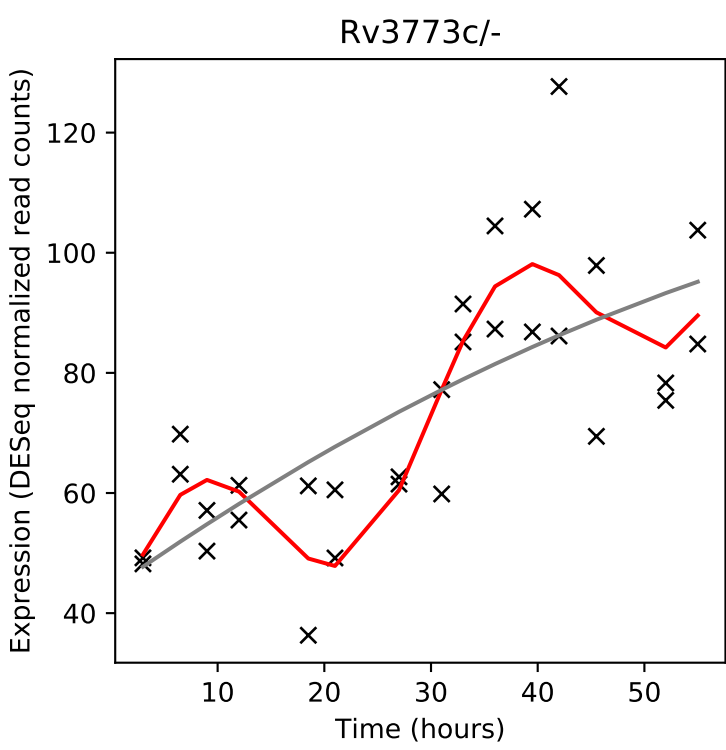
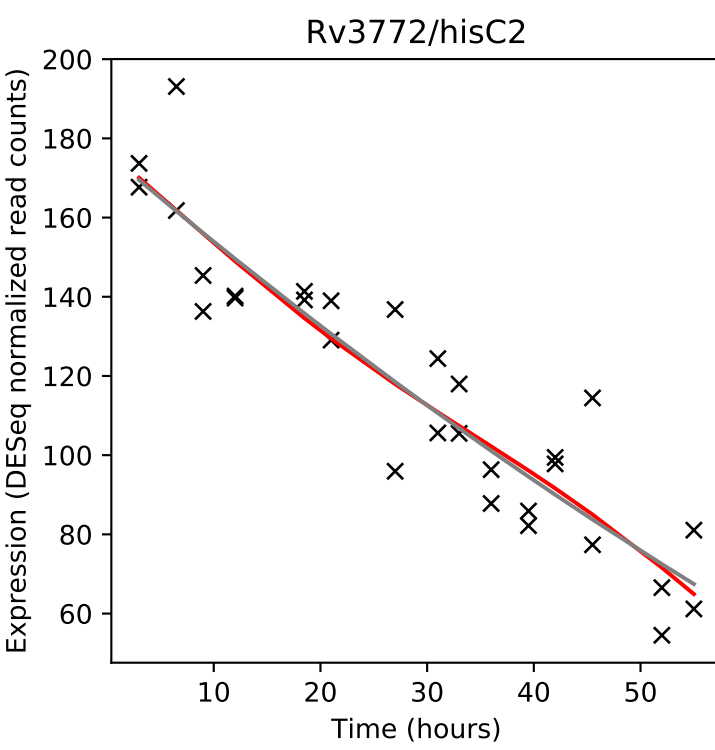
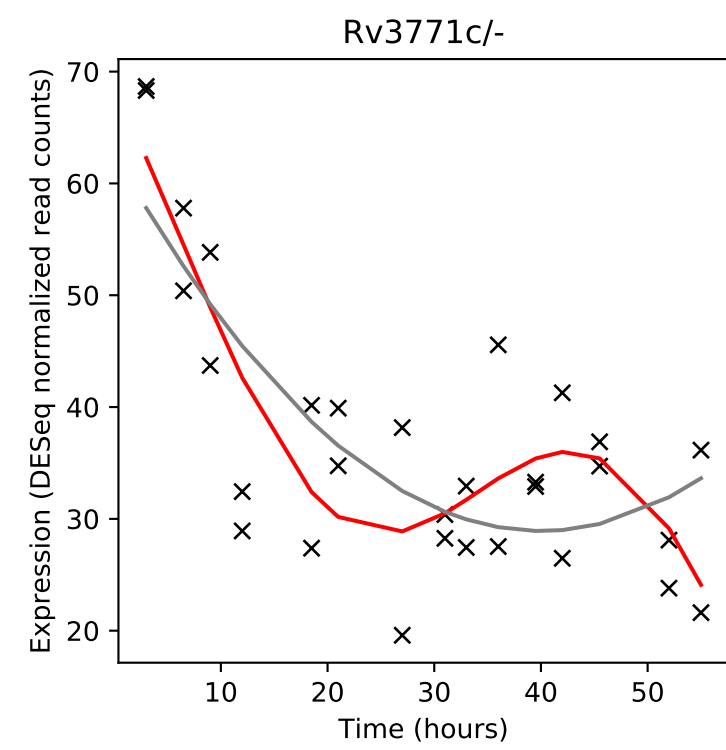
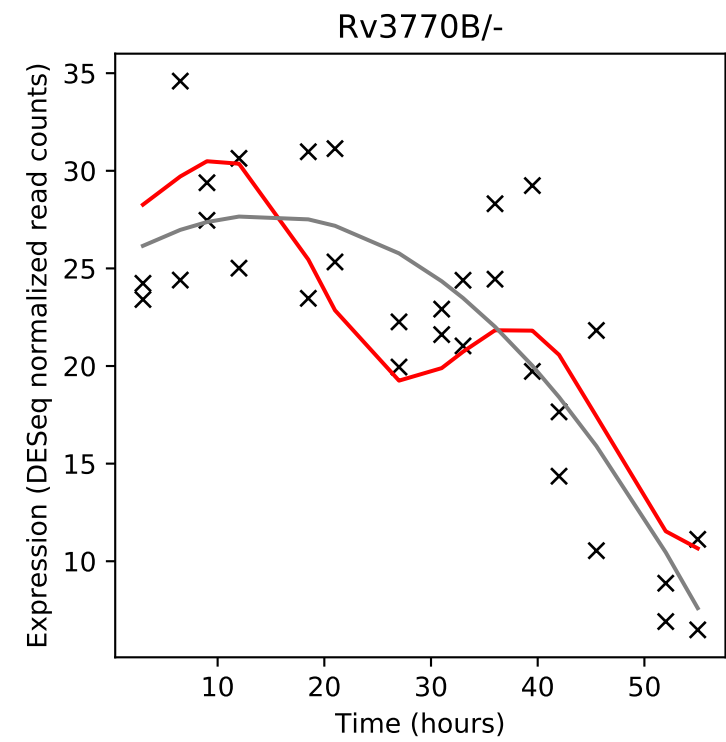
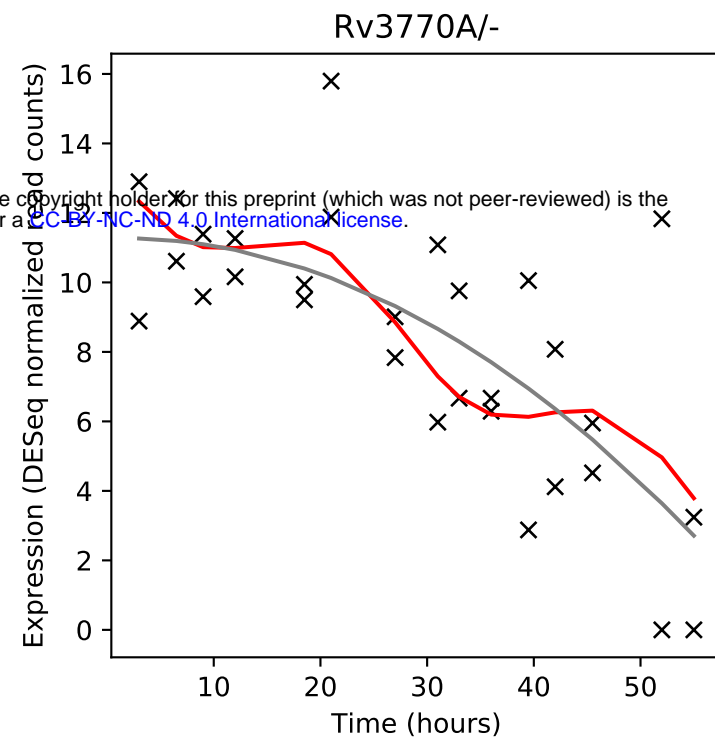
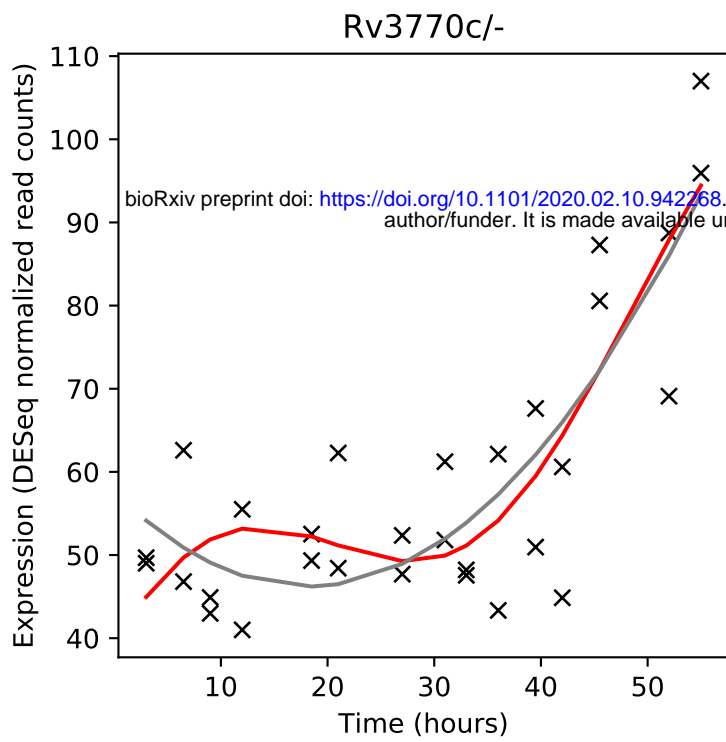


Rv3768/-

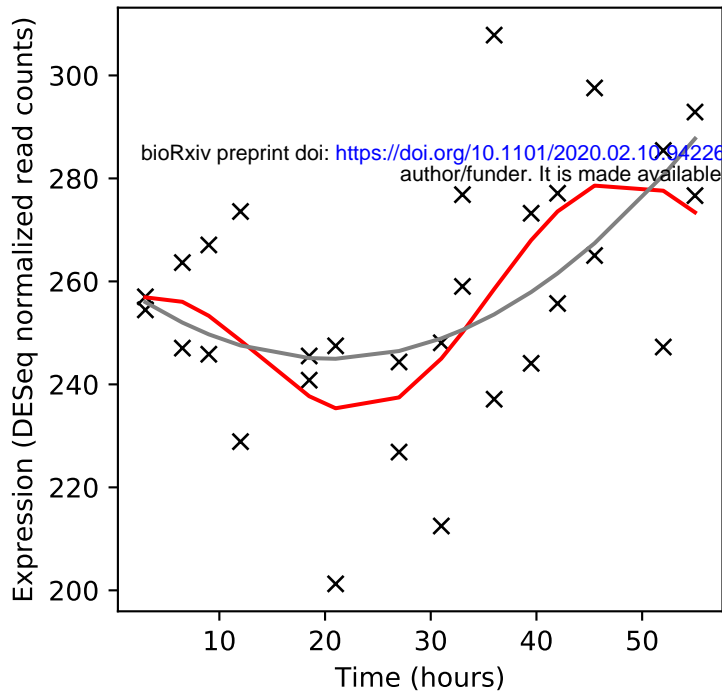


Rv3769/-

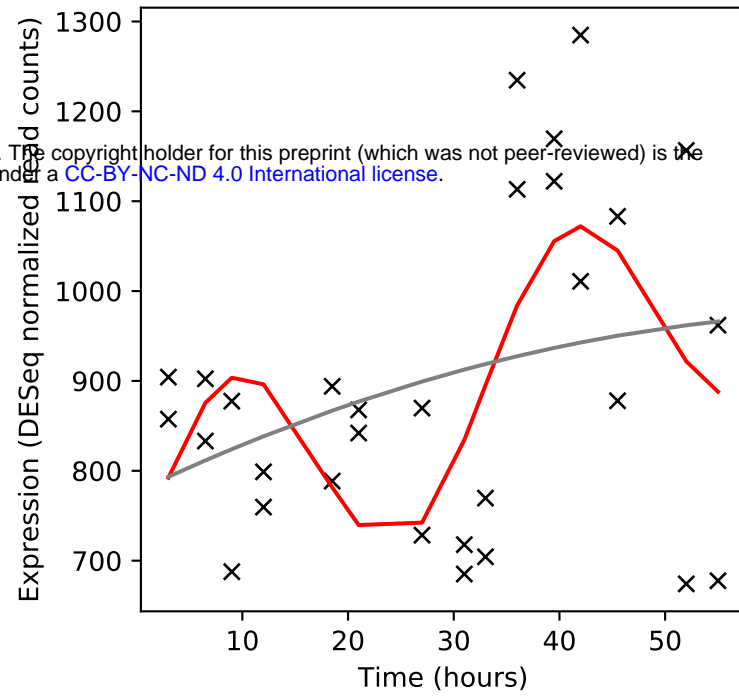




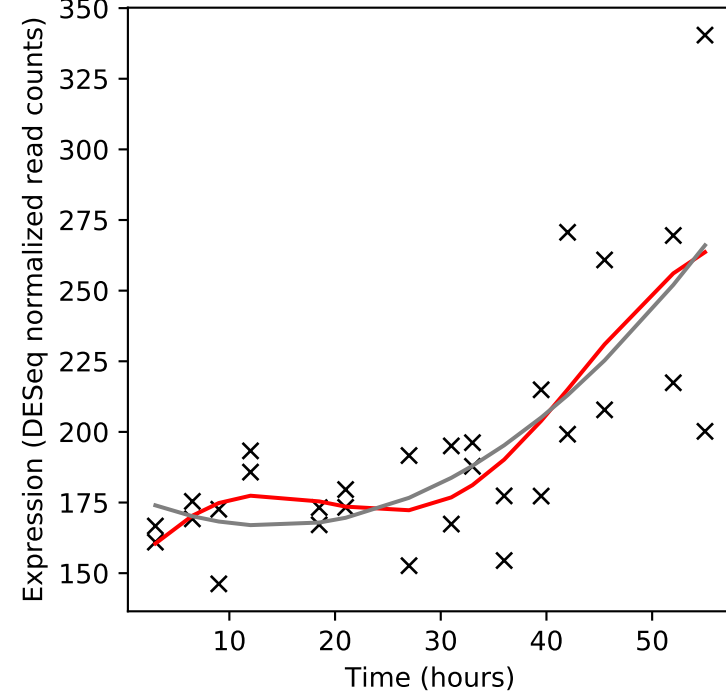
Rv3777/-



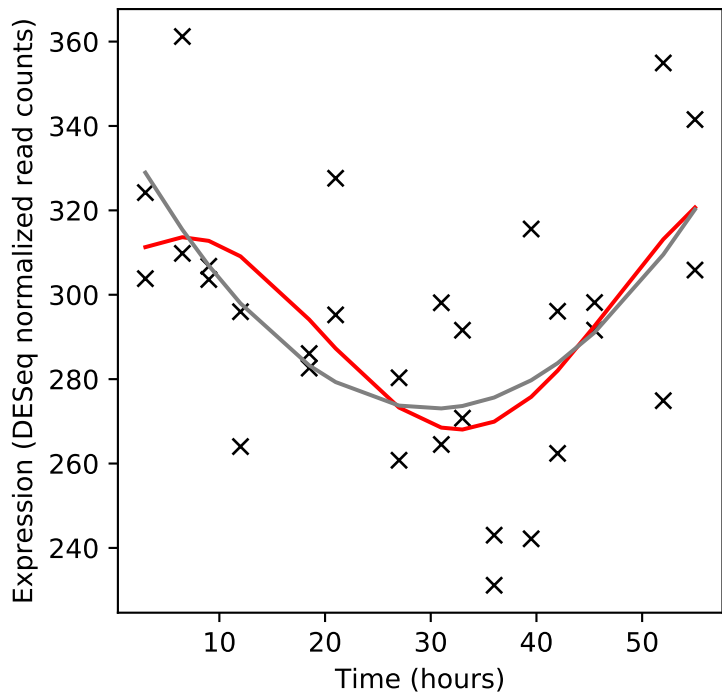
Rv3778c/-



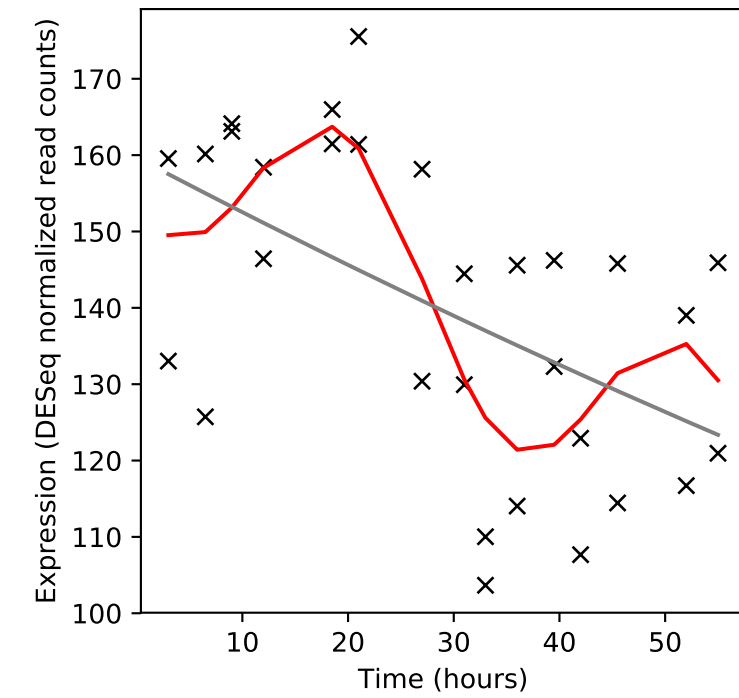
Rv3779/-



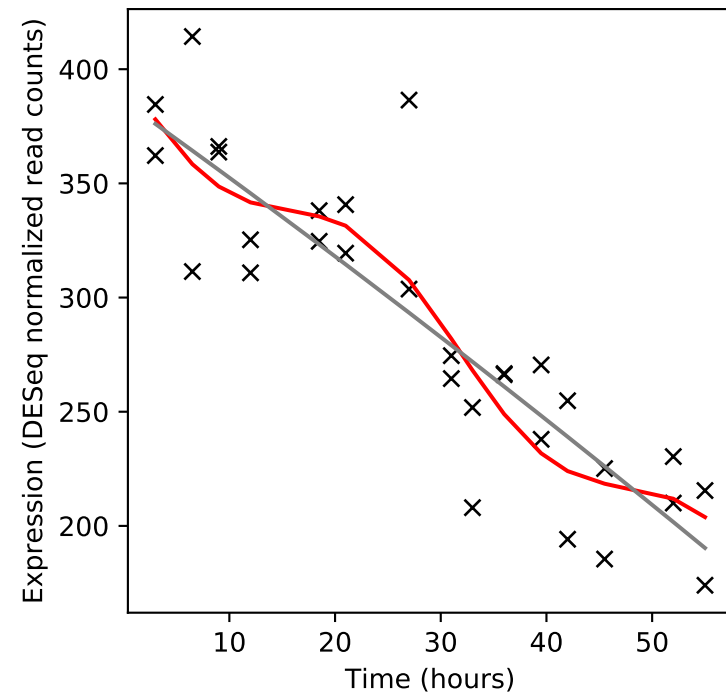
Rv3780/-



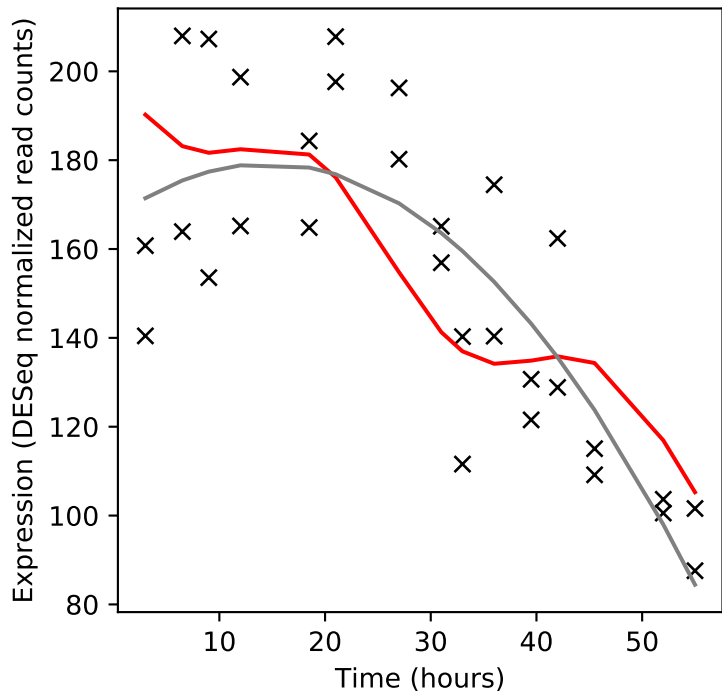
Rv3781/rfbE



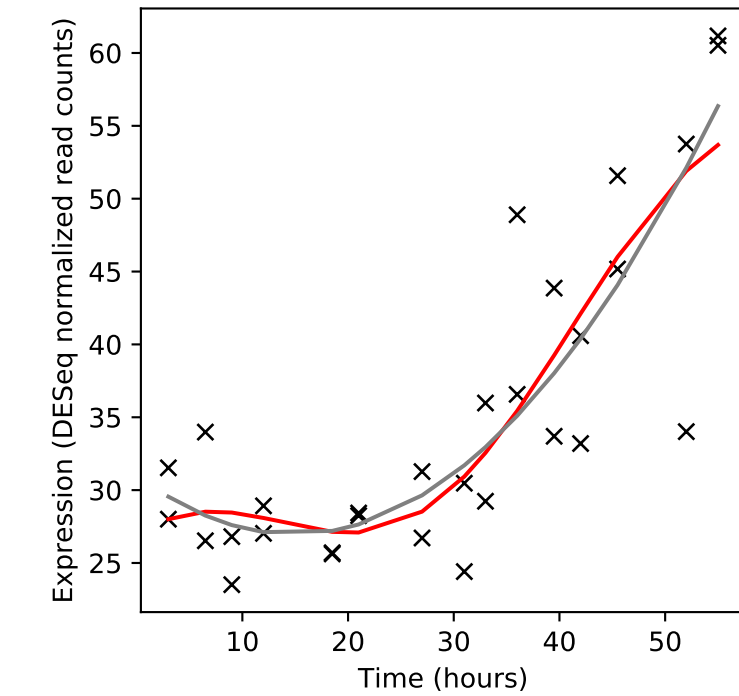
Rv3782/glfT1



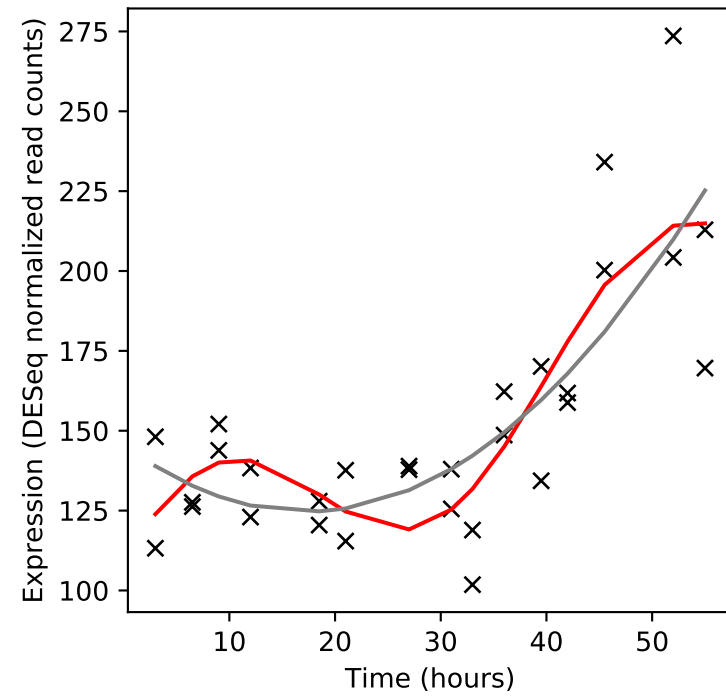
Rv3783/rfbD



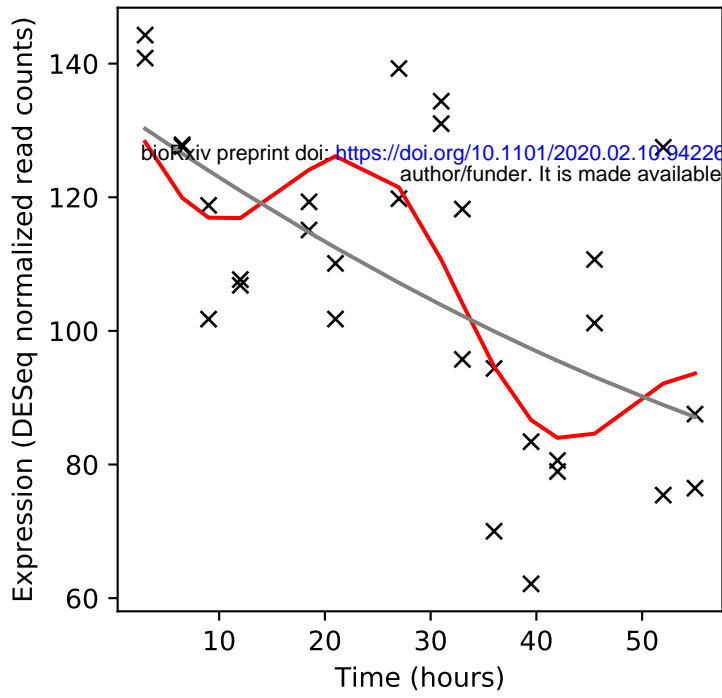
Rv3784/-



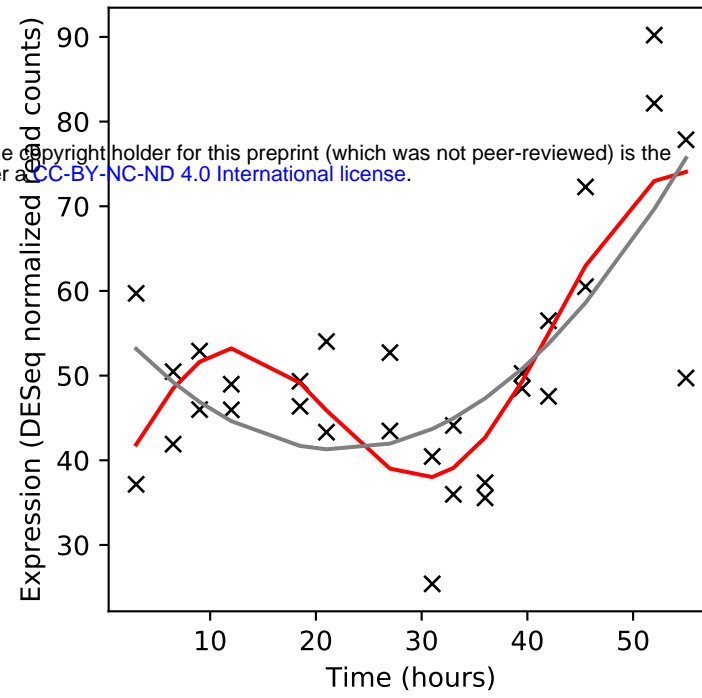
Rv3785/-



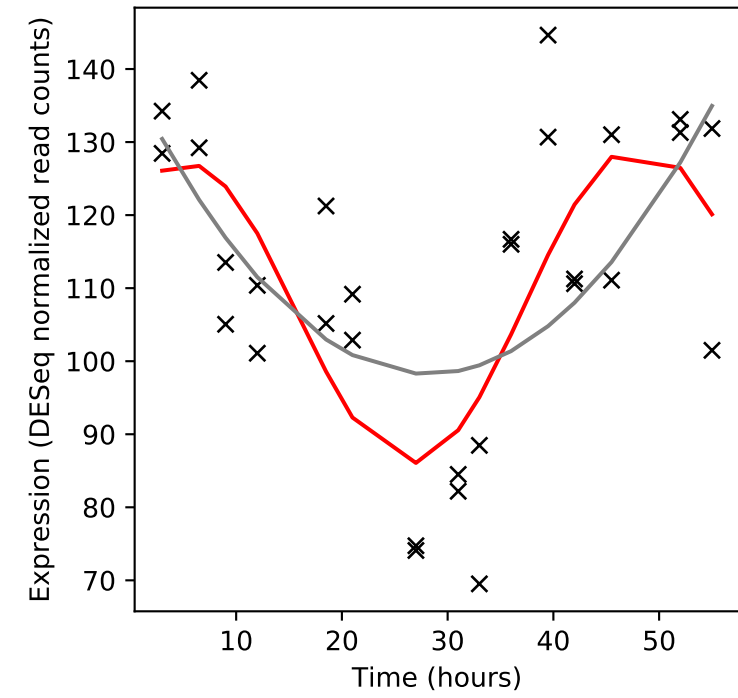
Rv3786c/-



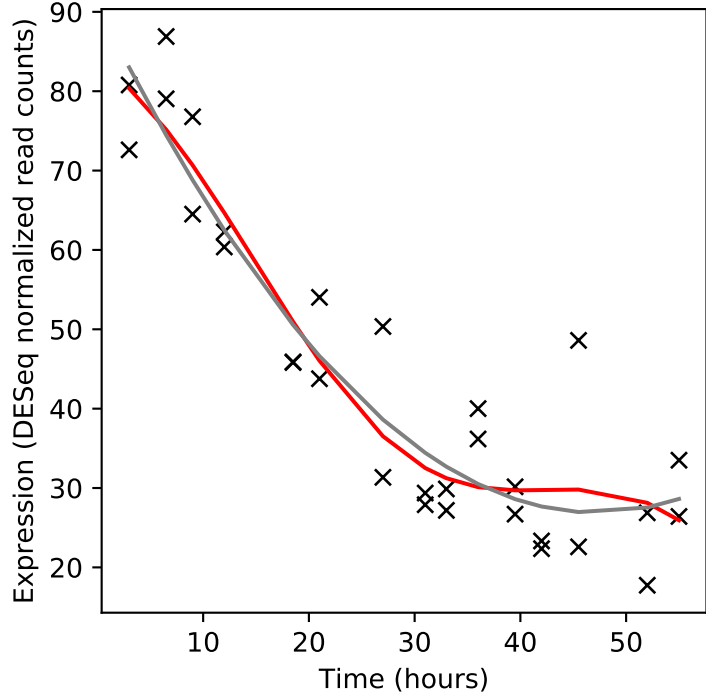
Rv3787c/-



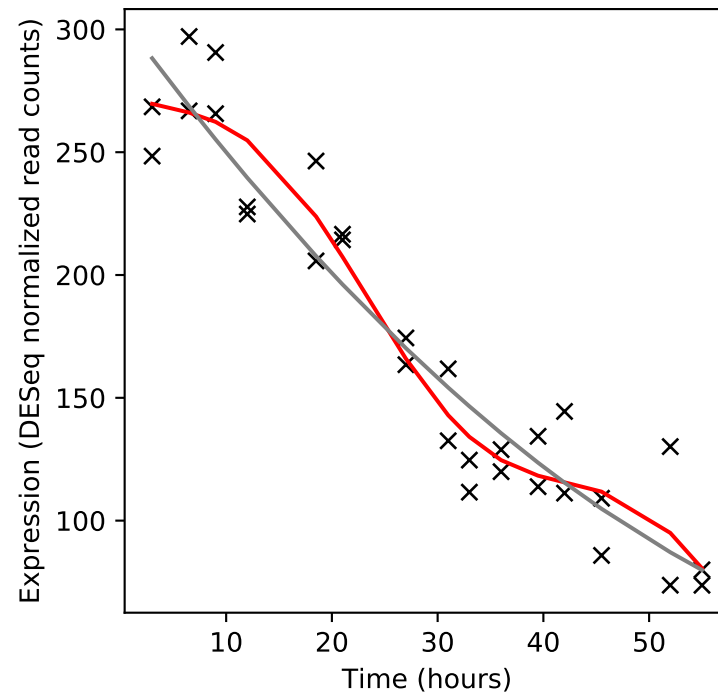
Rv3788/-



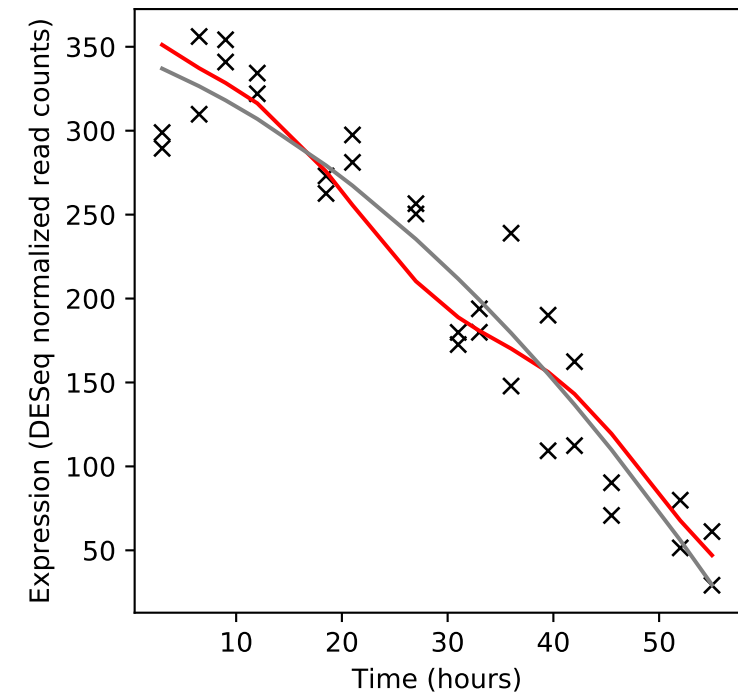
Rv3789/-



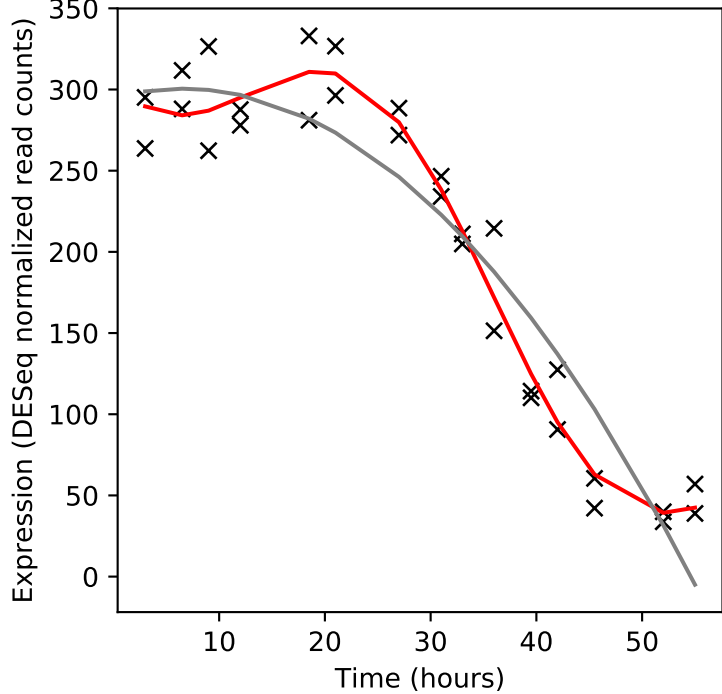
Rv3790/dprE1



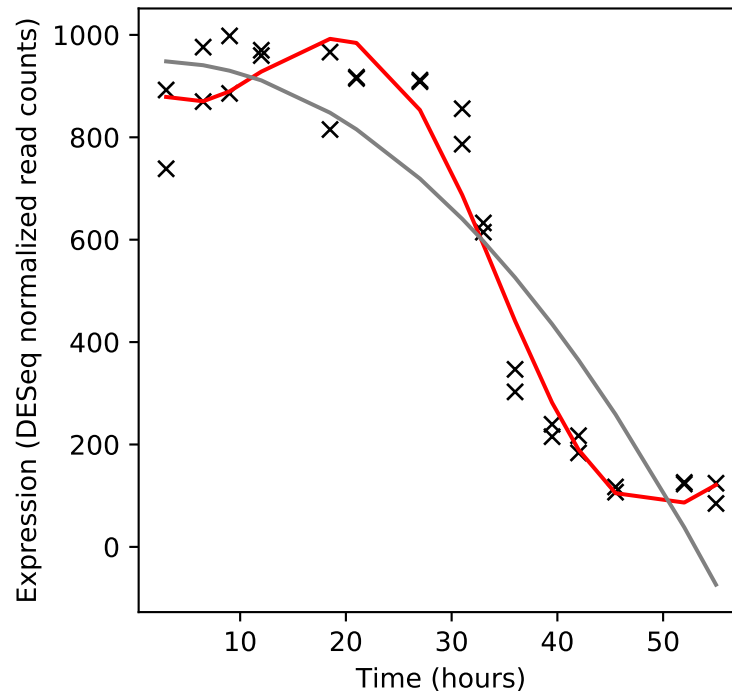
Rv3791/dprE2



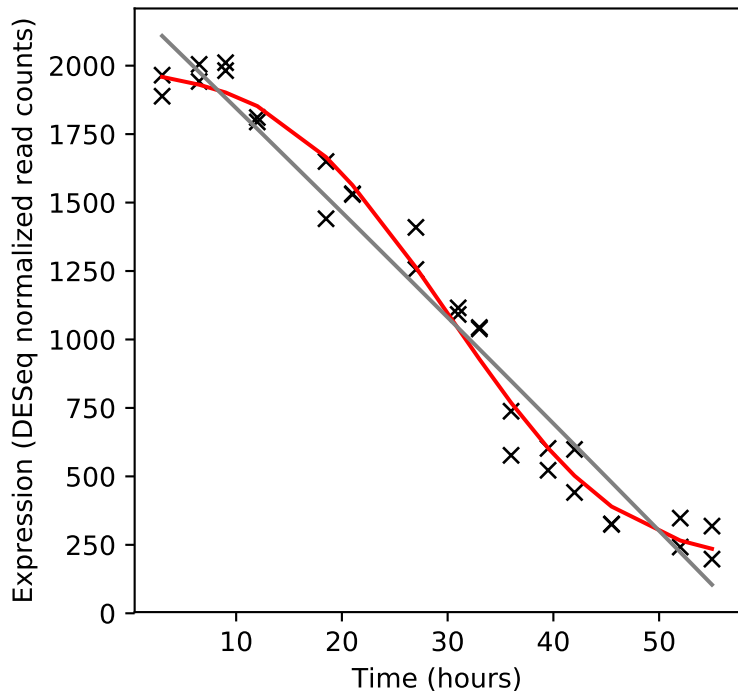
Rv3792/aftA



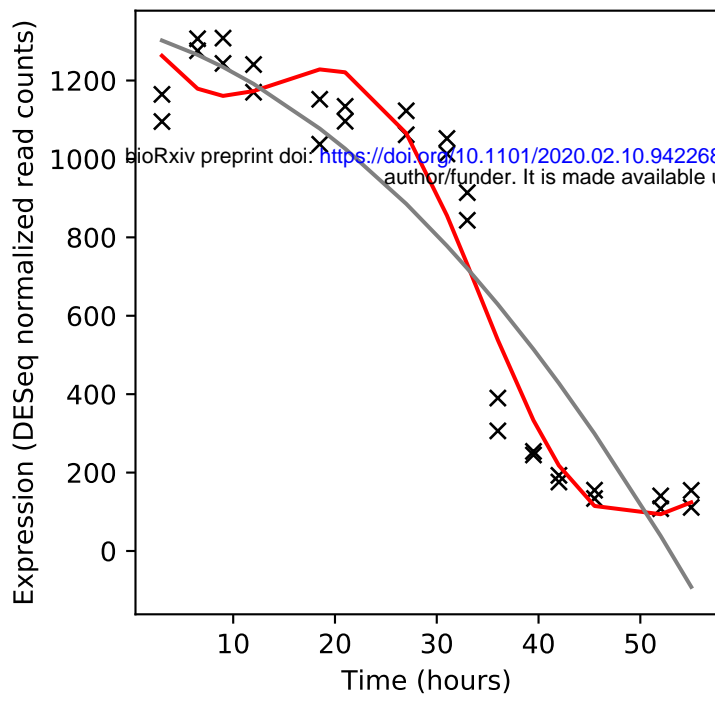
Rv3793/embC



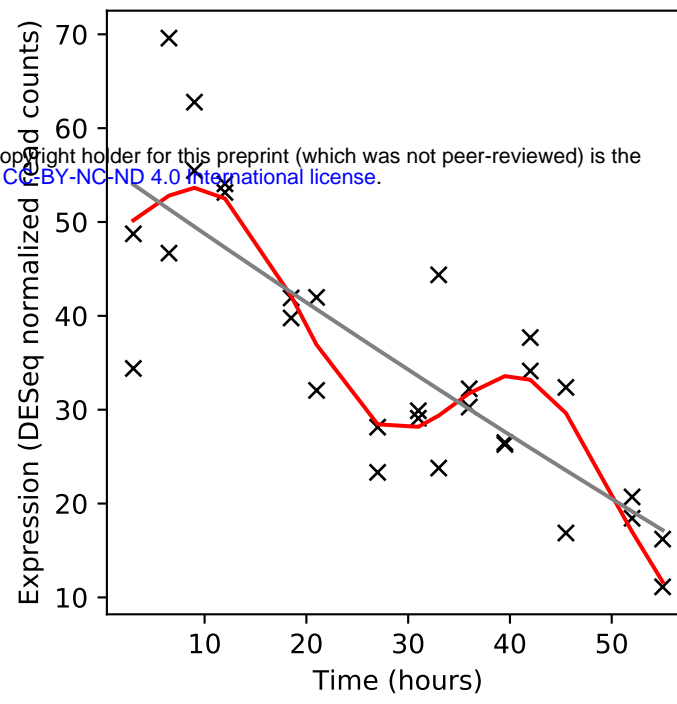
Rv3794/embA



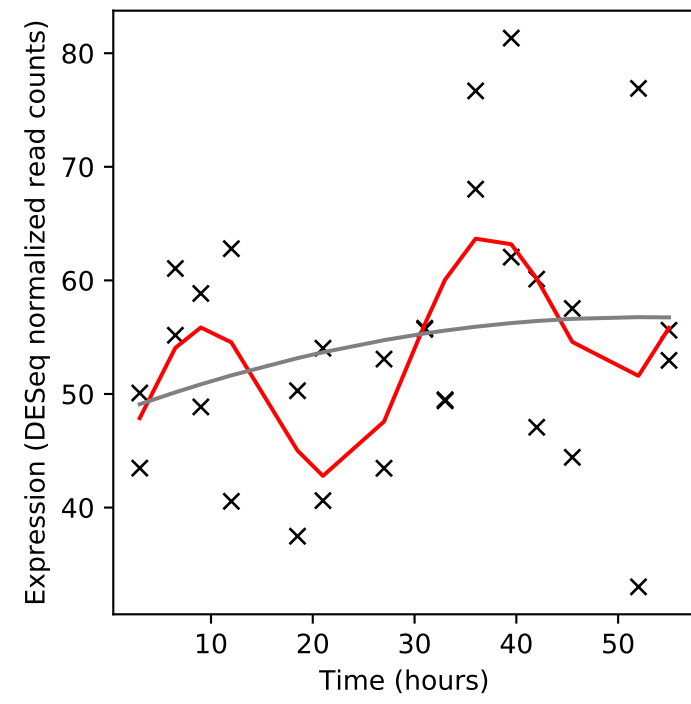
Rv3795/embB



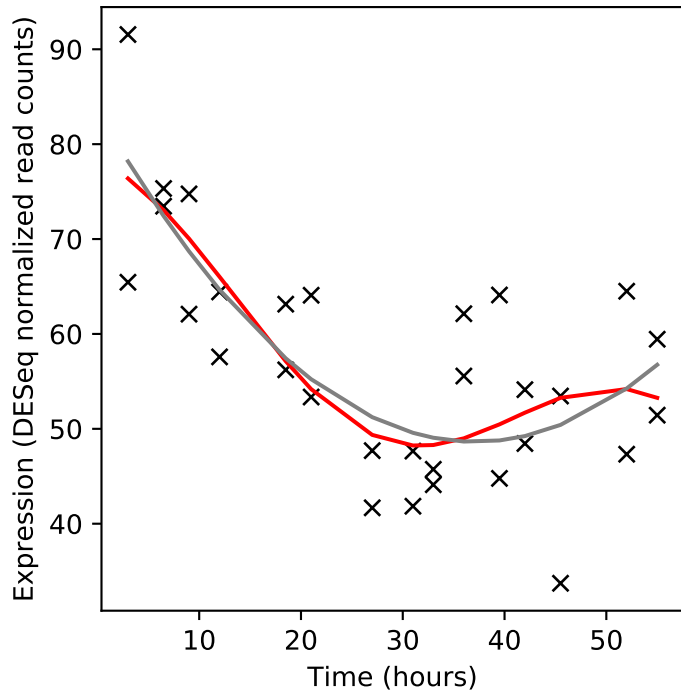
Rv3796/-



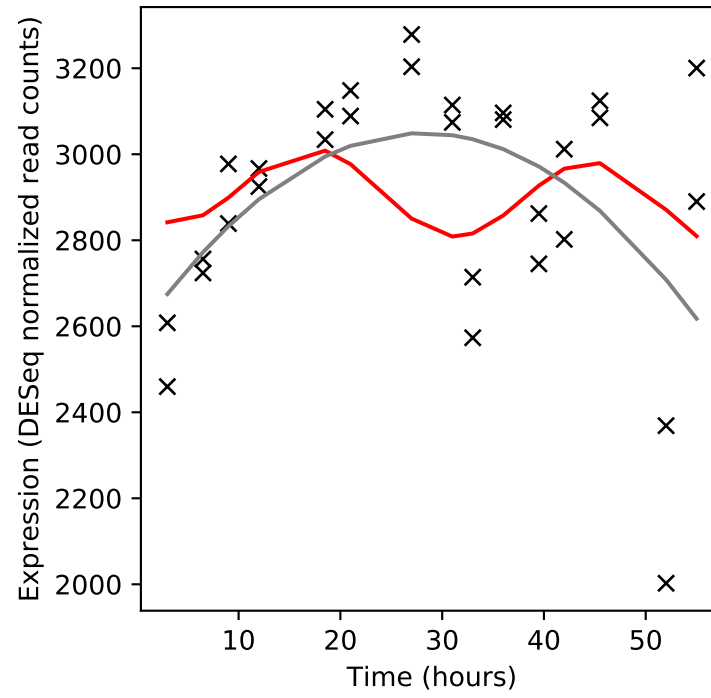
Rv3797/fadE35



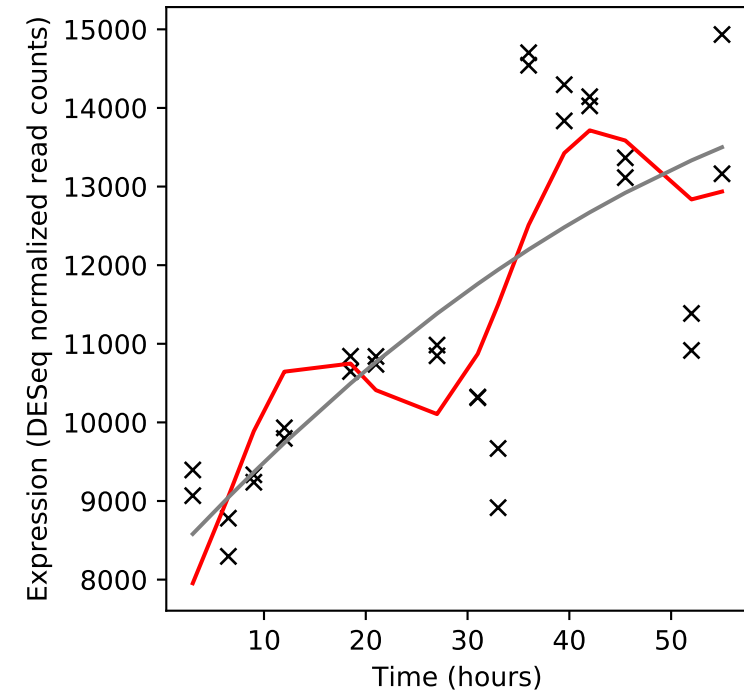
Rv3798/-



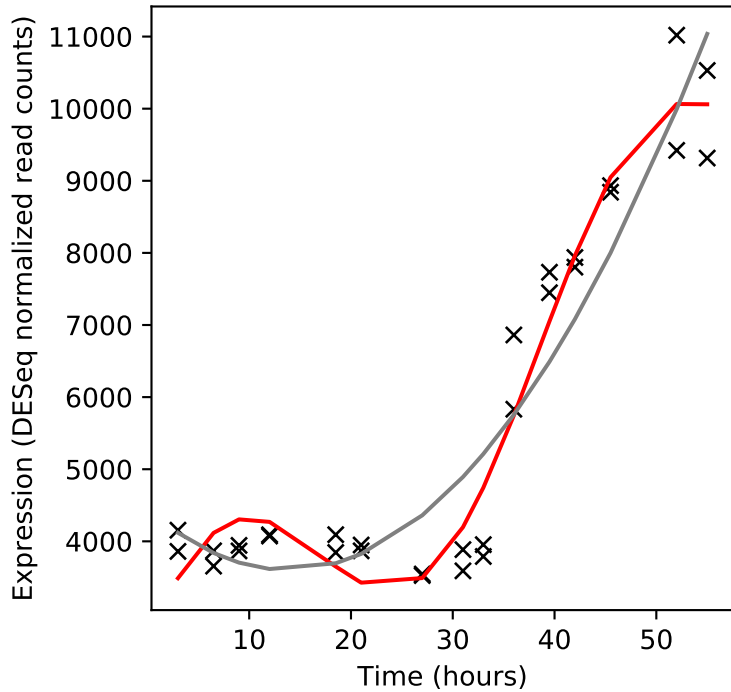
Rv3799c/accD4



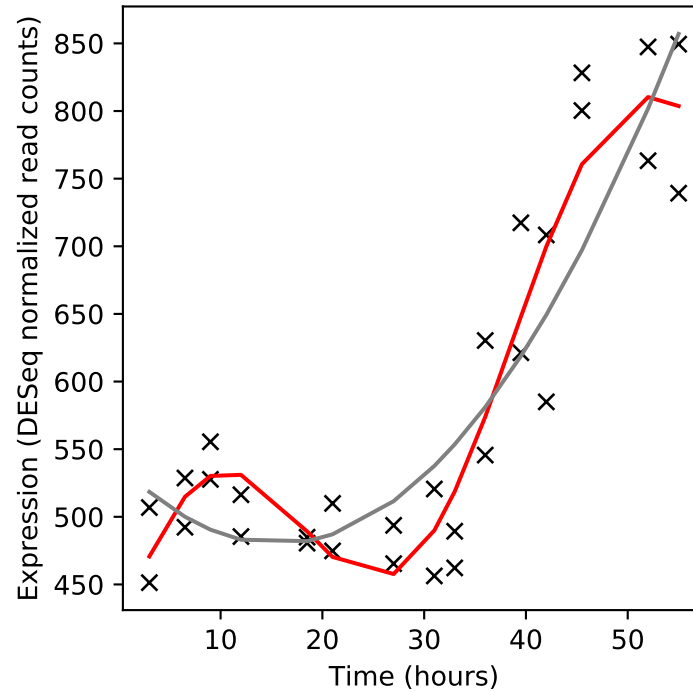
Rv3800c/pks13



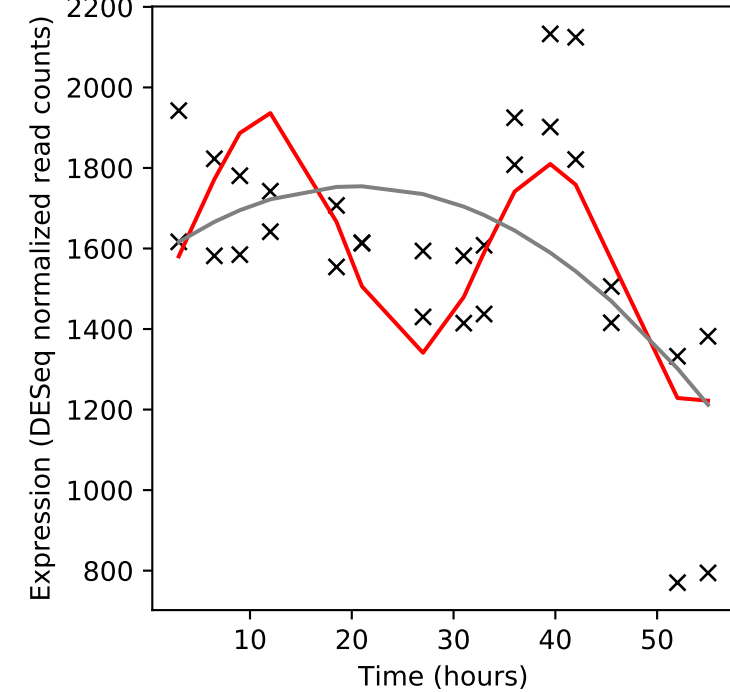
Rv3801c/fadD32



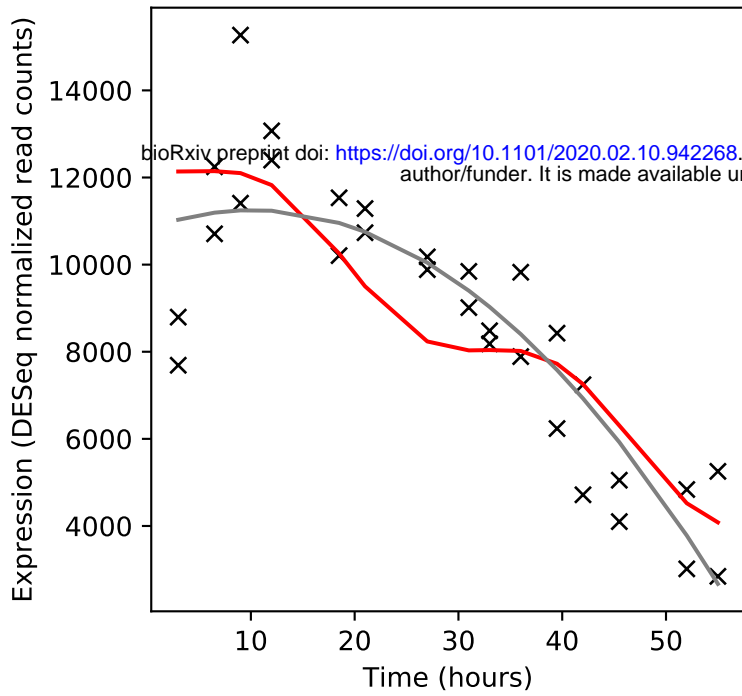
Rv3802c/-



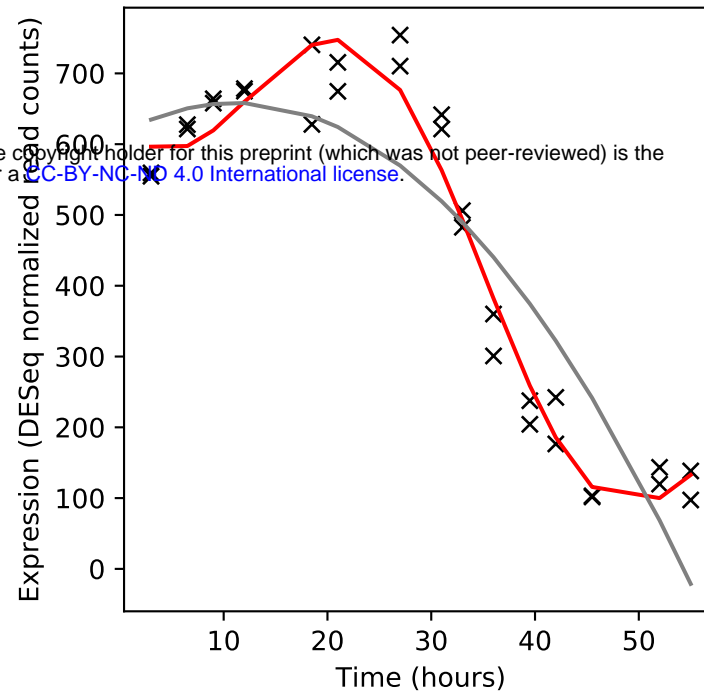
Rv3803c/fbpD



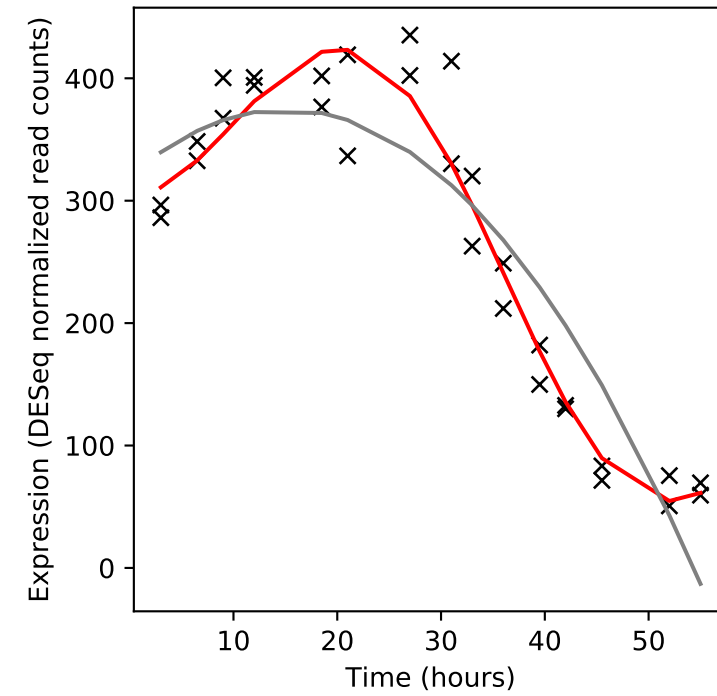
Rv3804c/fbpA



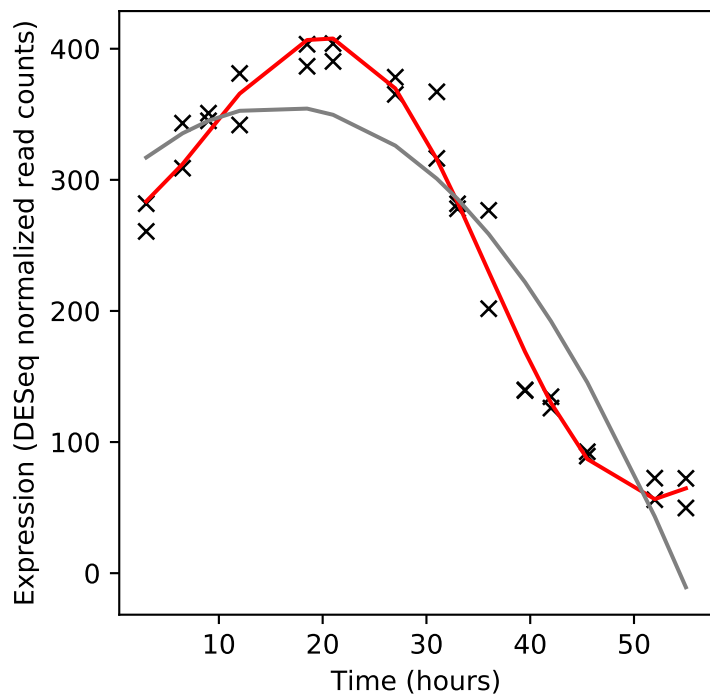
Rv3805c/aftB



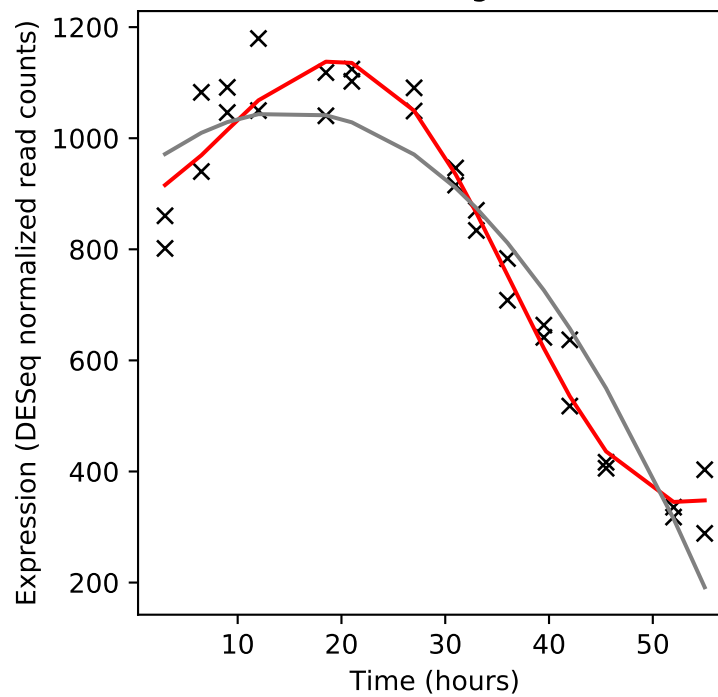
Rv3806c/ubiA



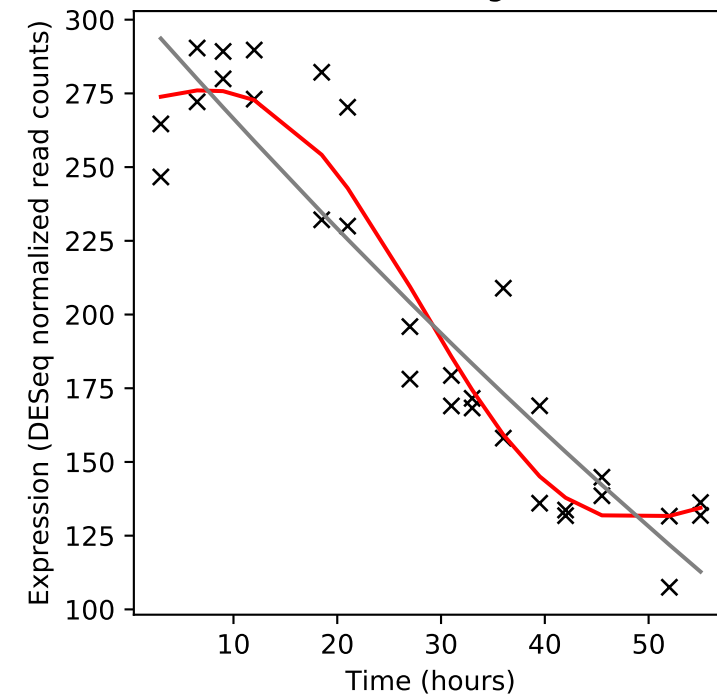
Rv3807c/-



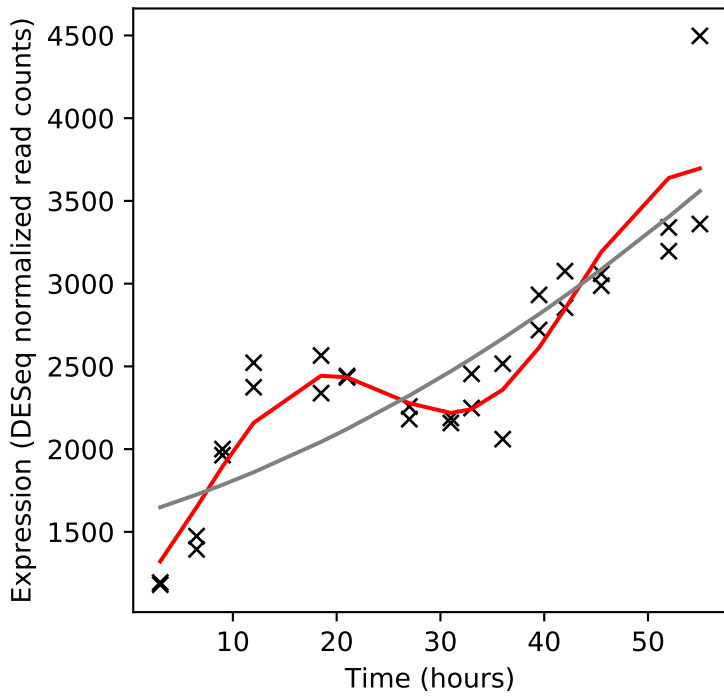
Rv3808c/glfT2



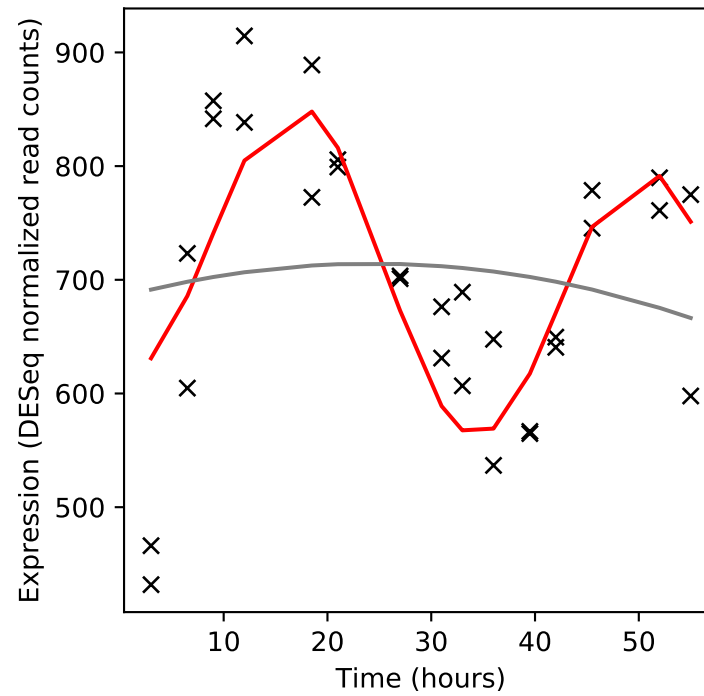
Rv3809c/glf



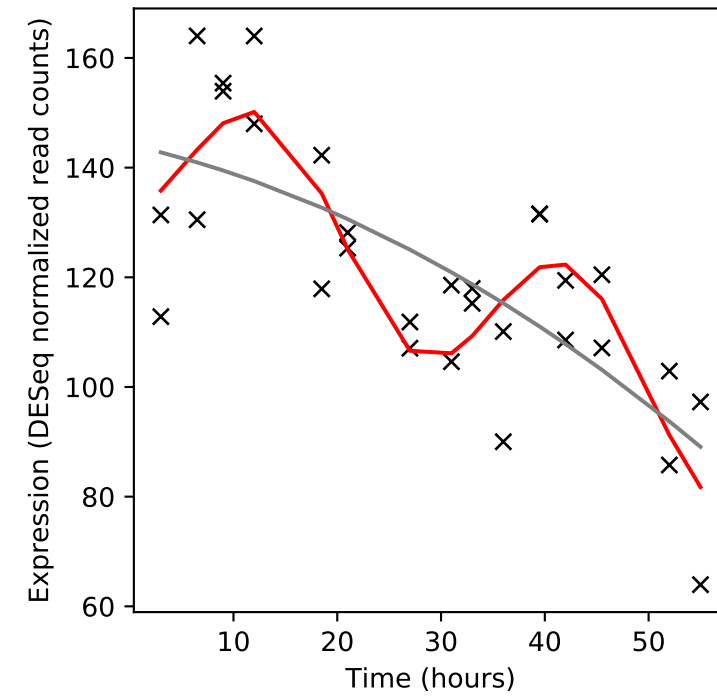
Rv3810/pirG



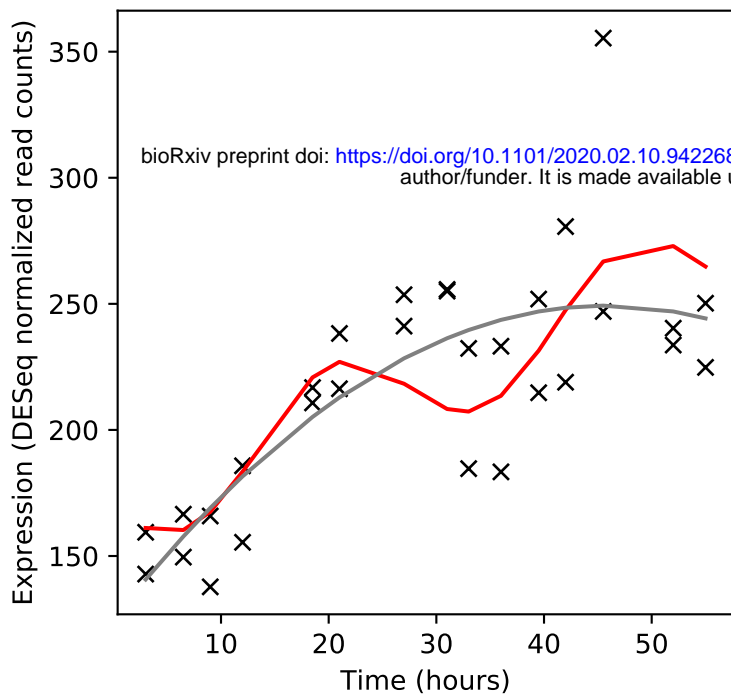
Rv3811/-



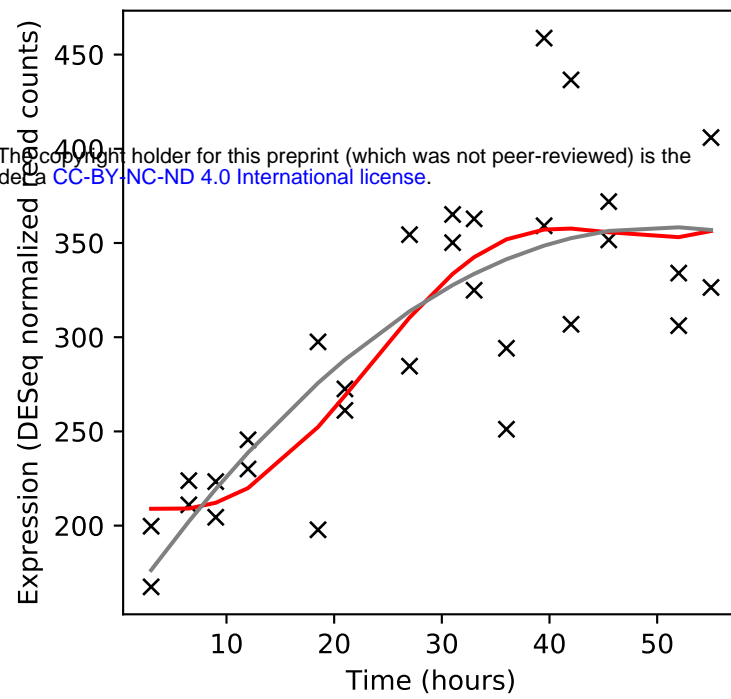
Rv3812/PE_PGRS62



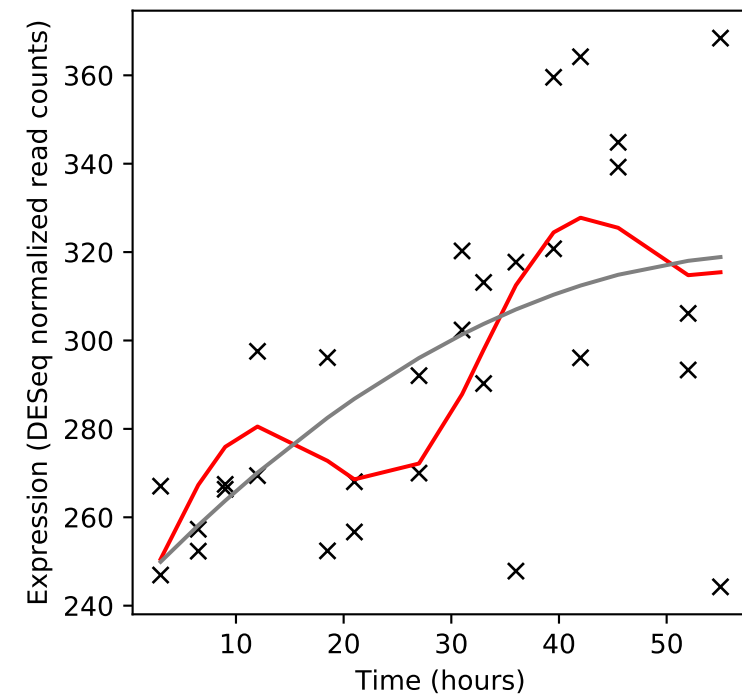
Rv3813c/-



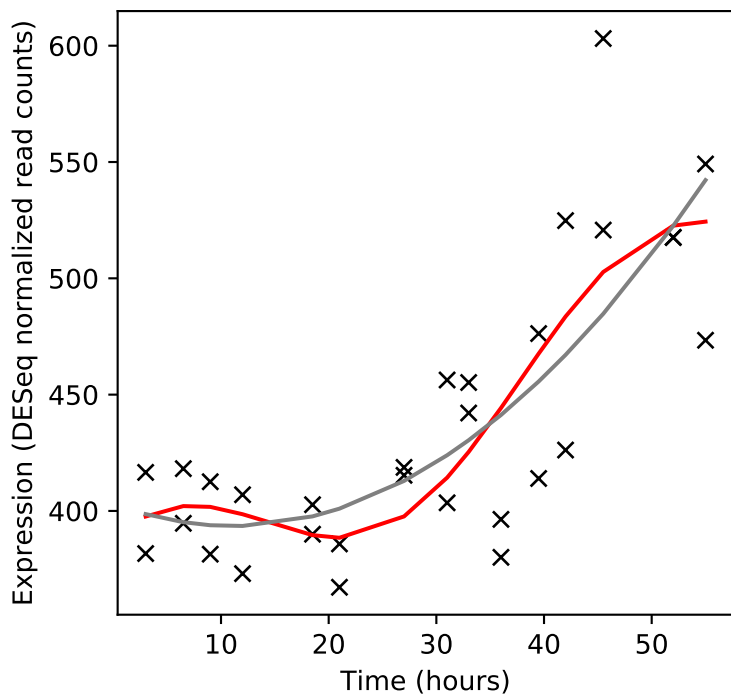
Rv3814c/-



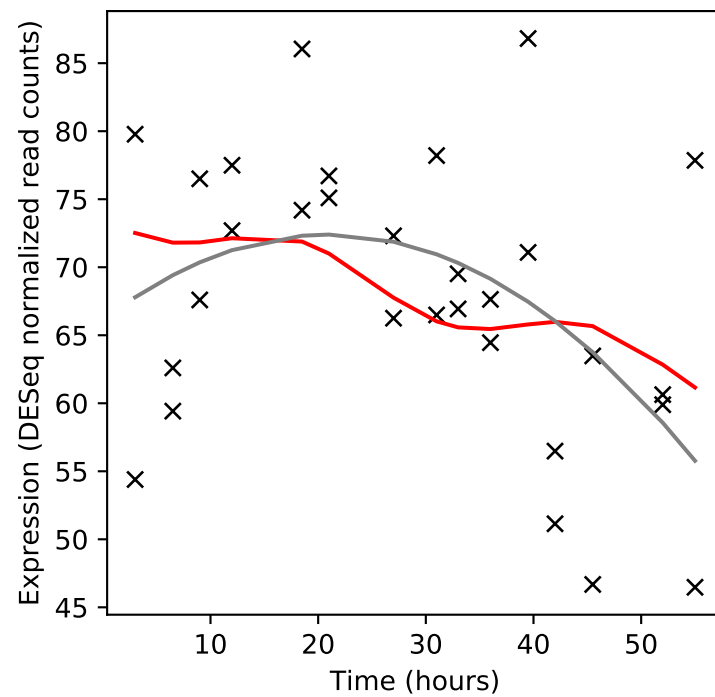
Rv3815c/-



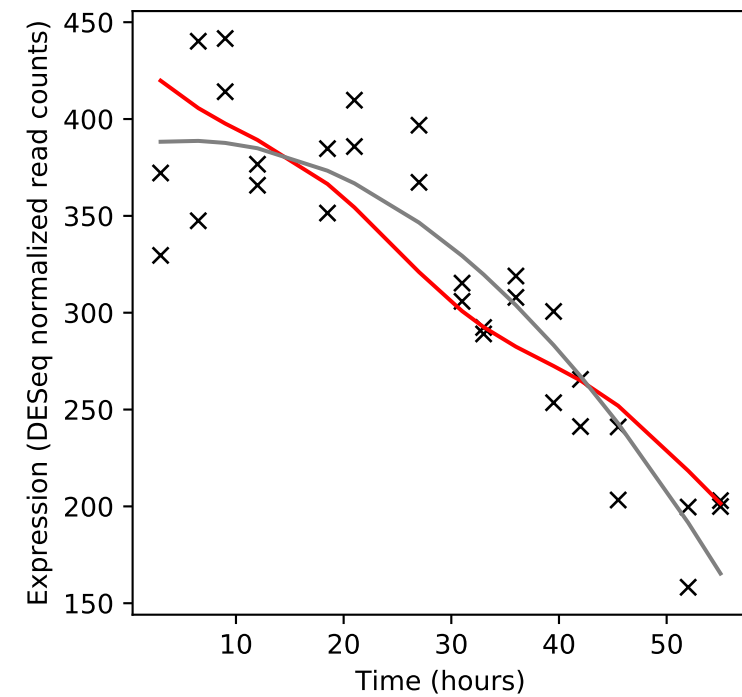
Rv3816c/-



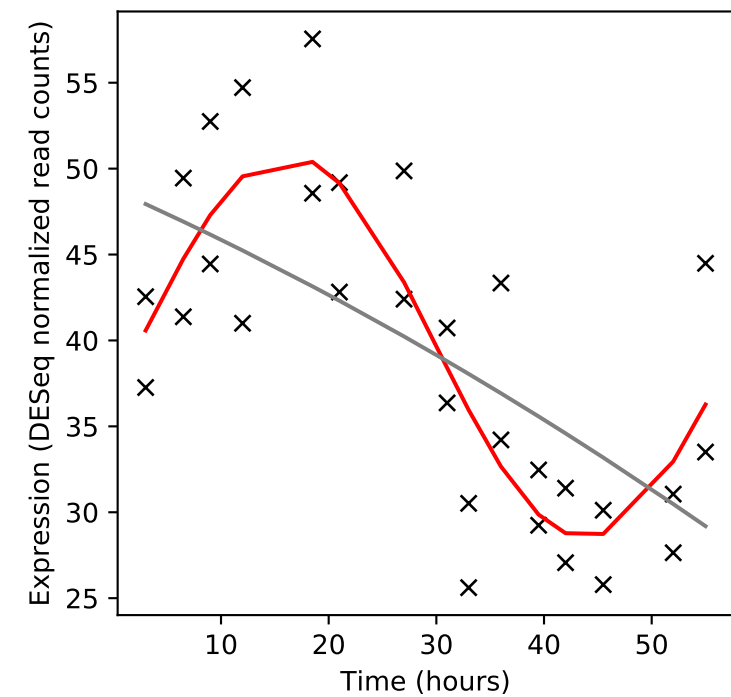
Rv3817/-



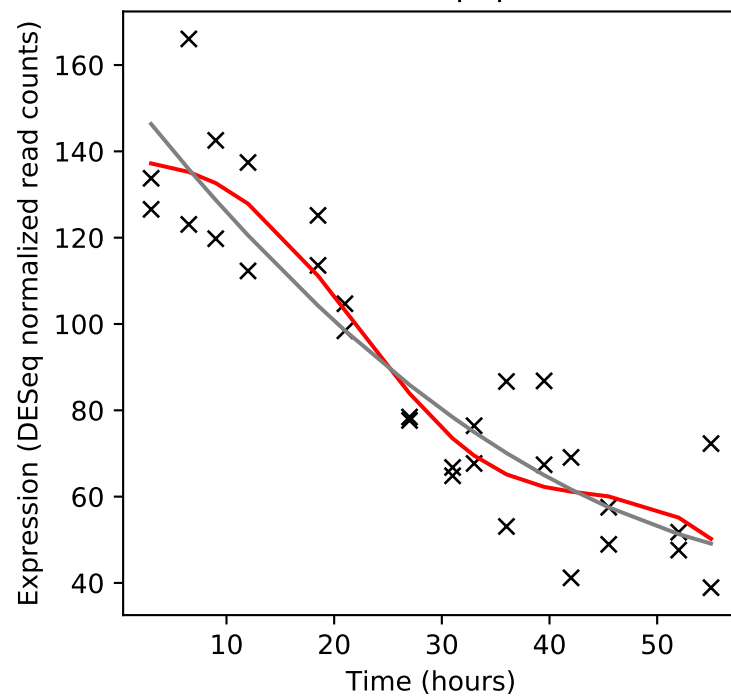
Rv3818/-



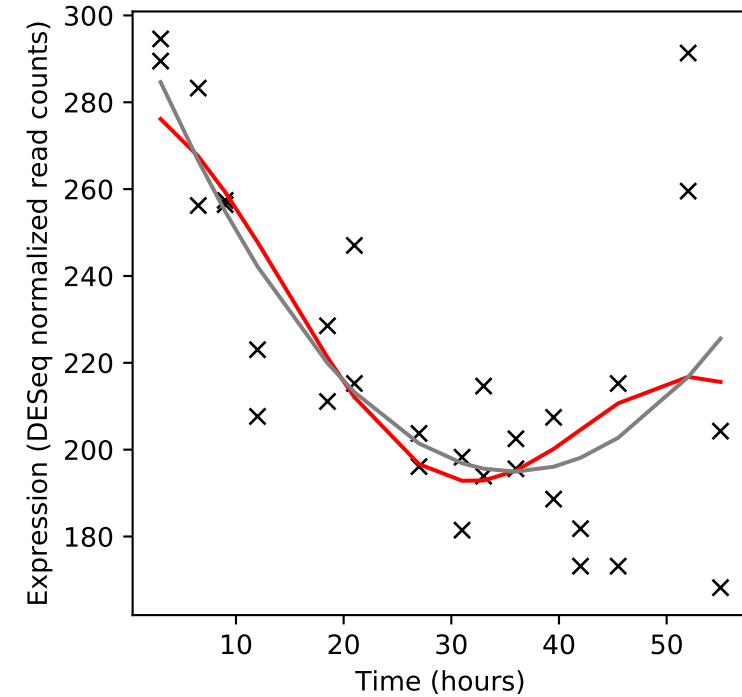
Rv3819/-



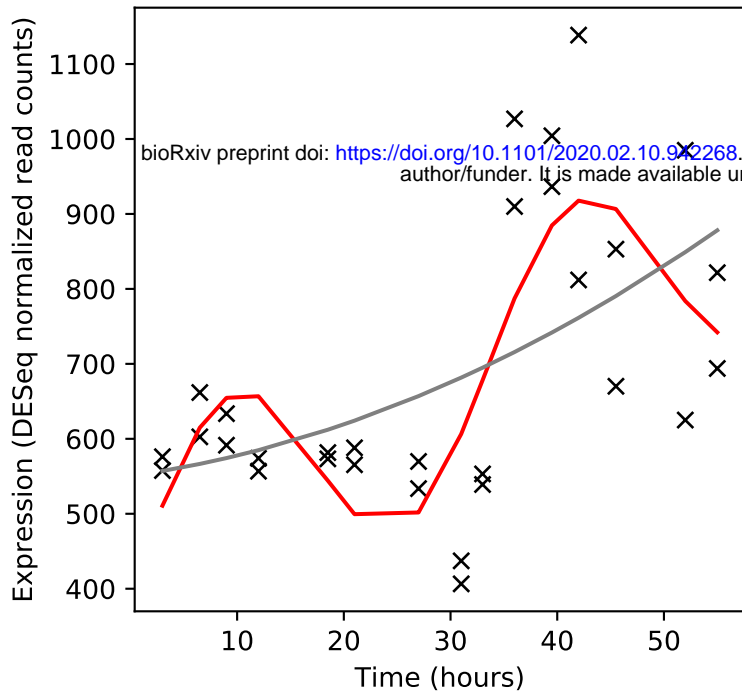
Rv3820c/papA2



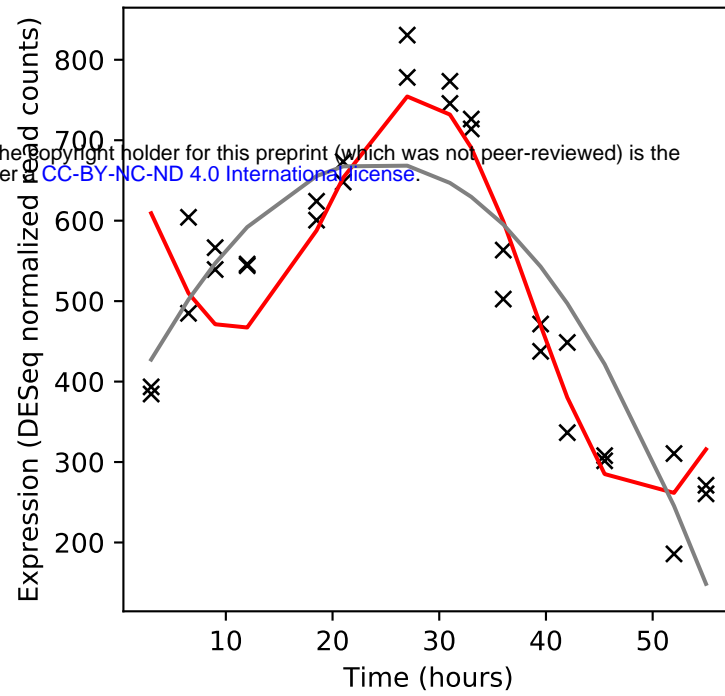
Rv3821/-



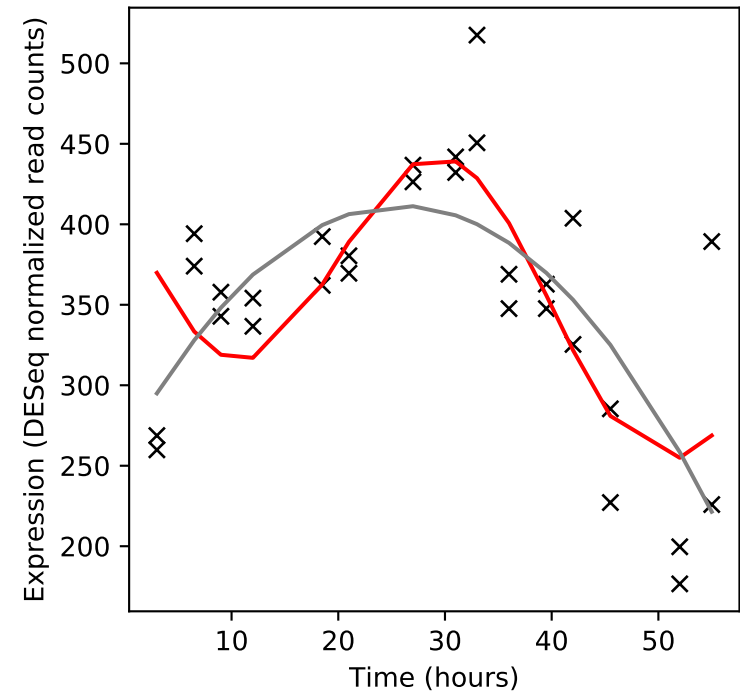
Rv3822c/-



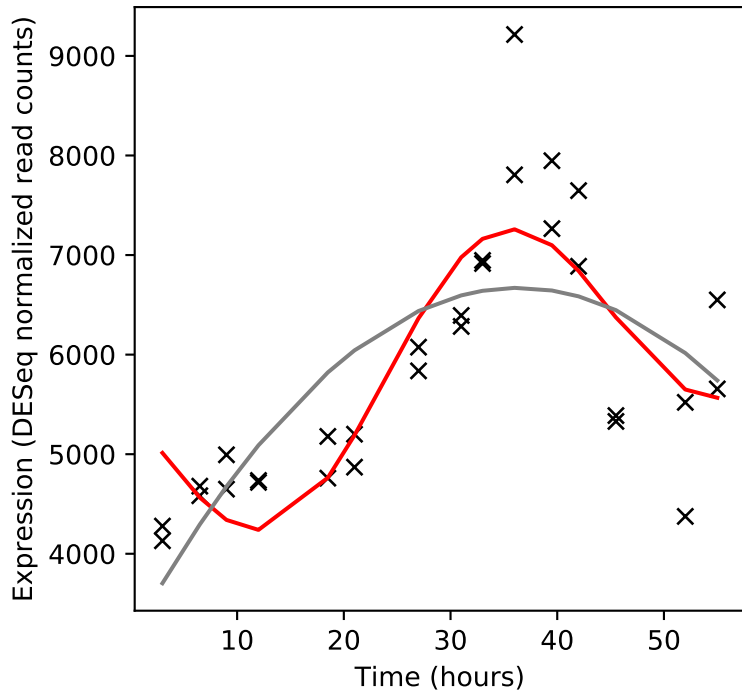
Rv3823c/mmpL8



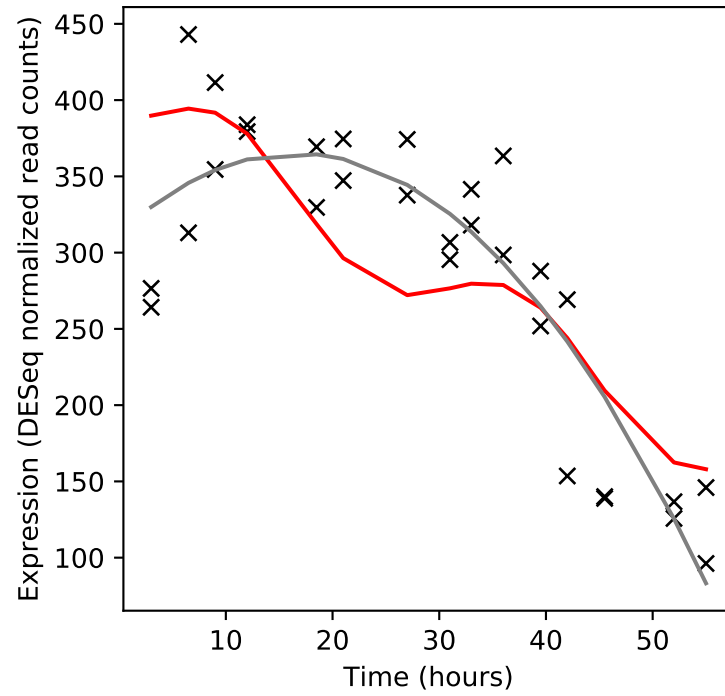
Rv3824c/papA1



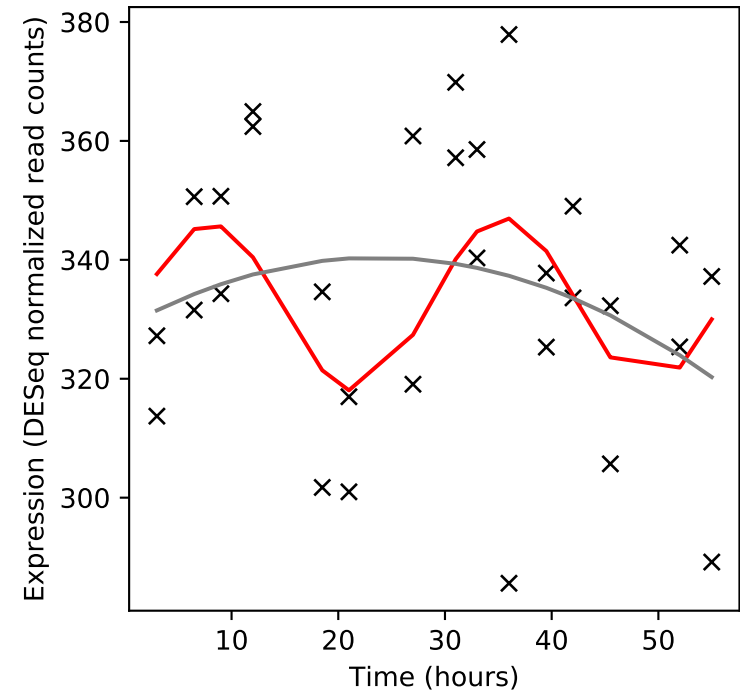
Rv3825c/pks2



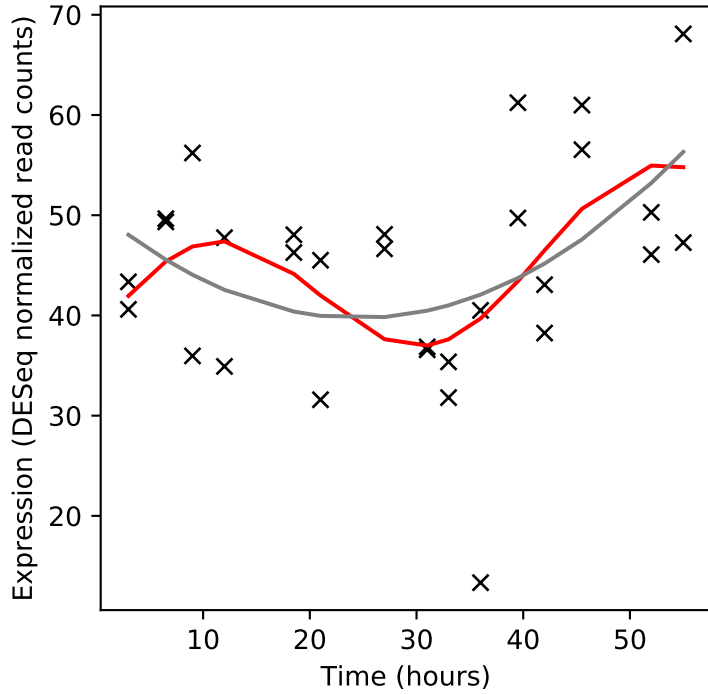
Rv3826c/fadD23



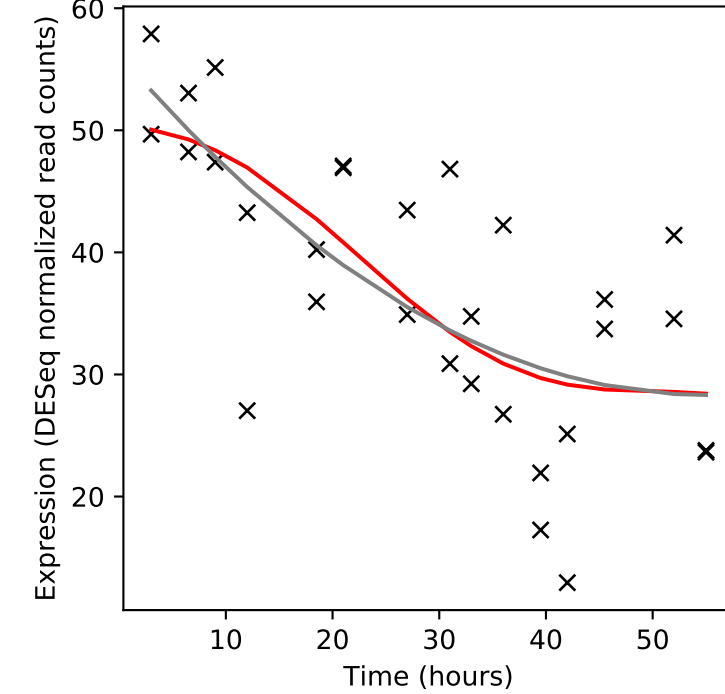
Rv3827c/-



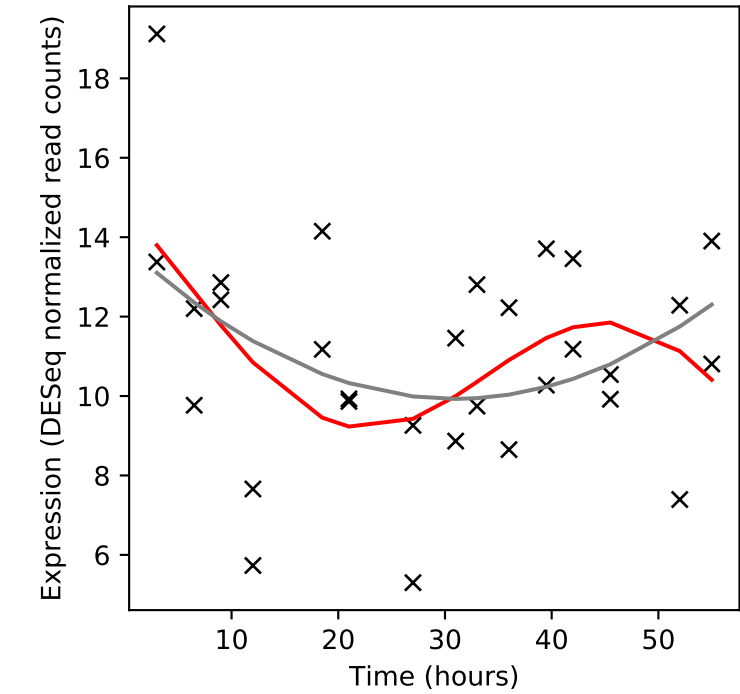
Rv3828c/-



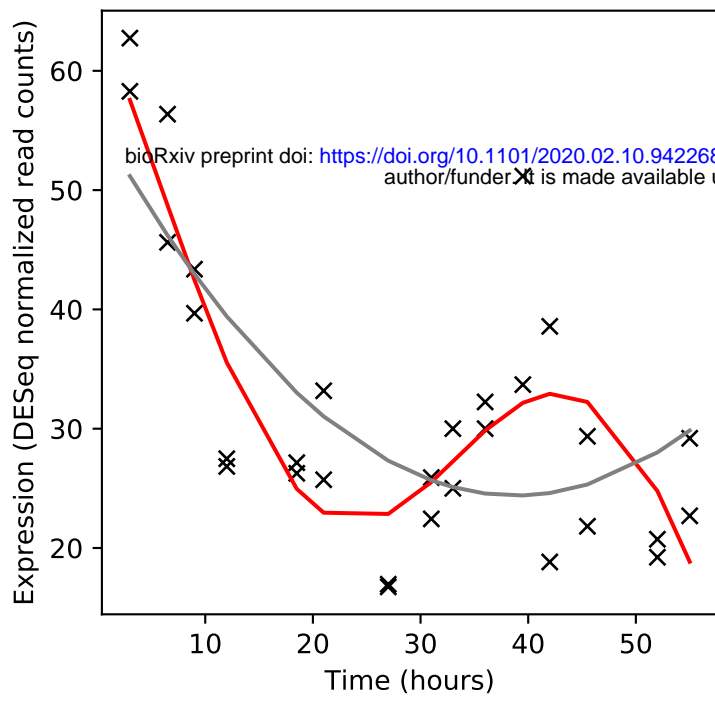
Rv3829c/-



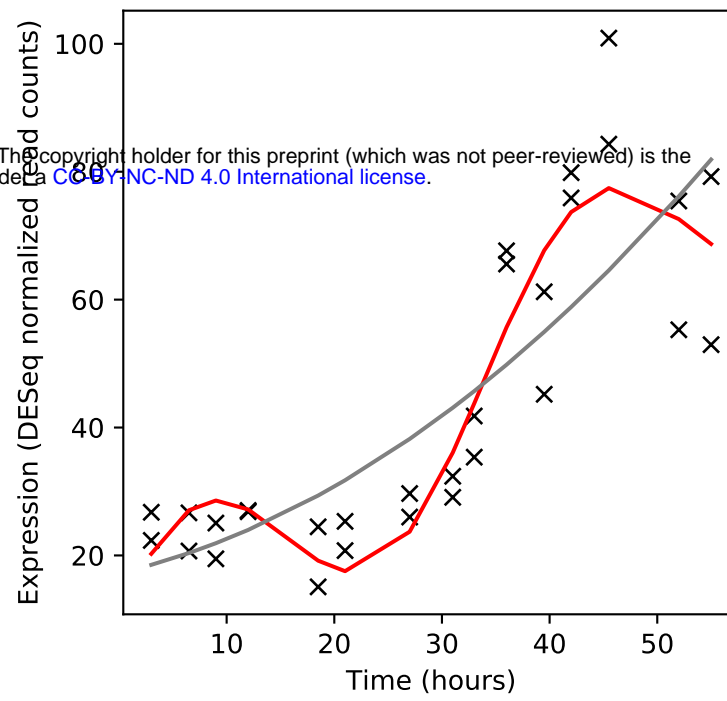
Rv3830c/-



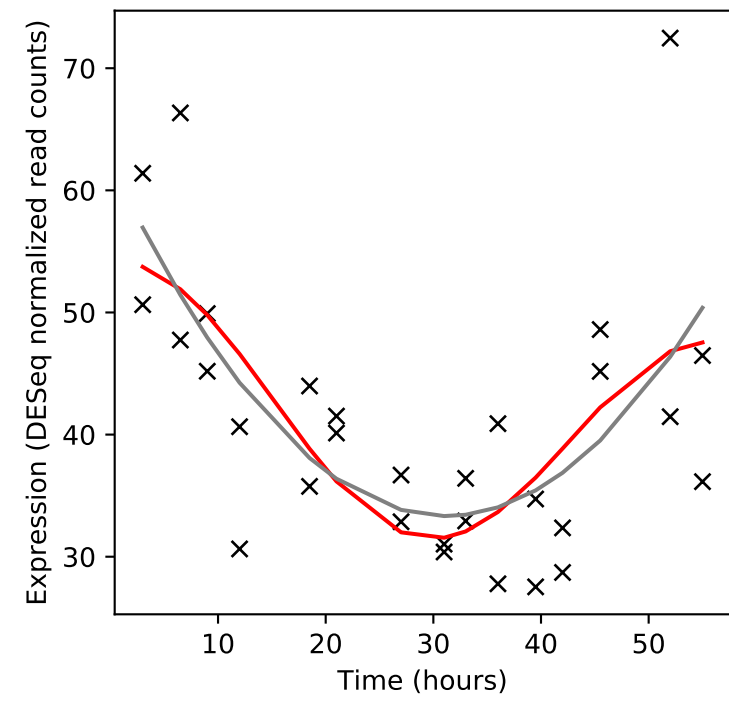
Rv3831/-



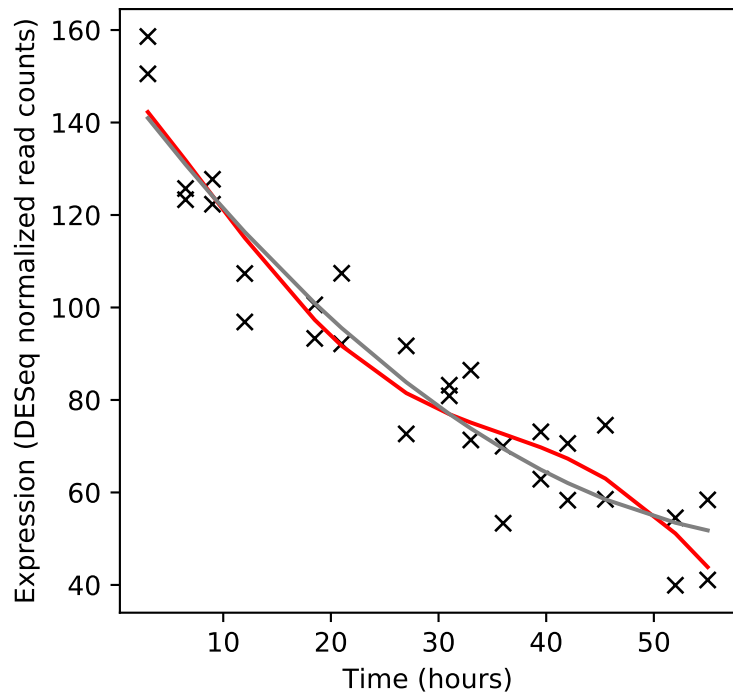
Rv3832c/-



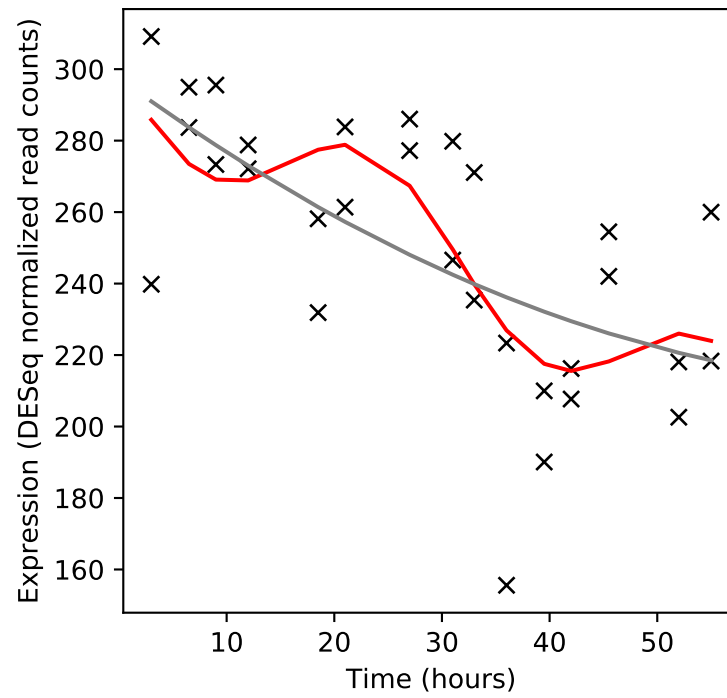
Rv3833/-



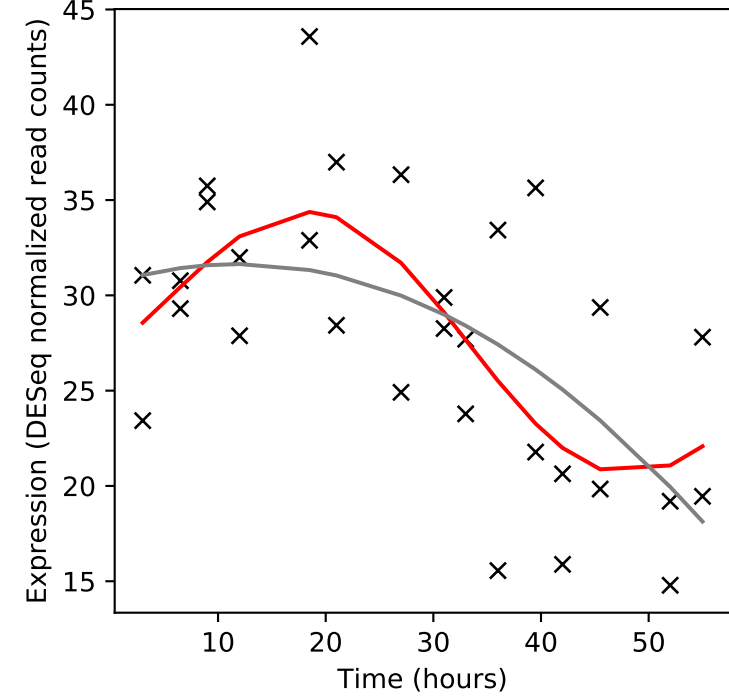
Rv3834c/serS



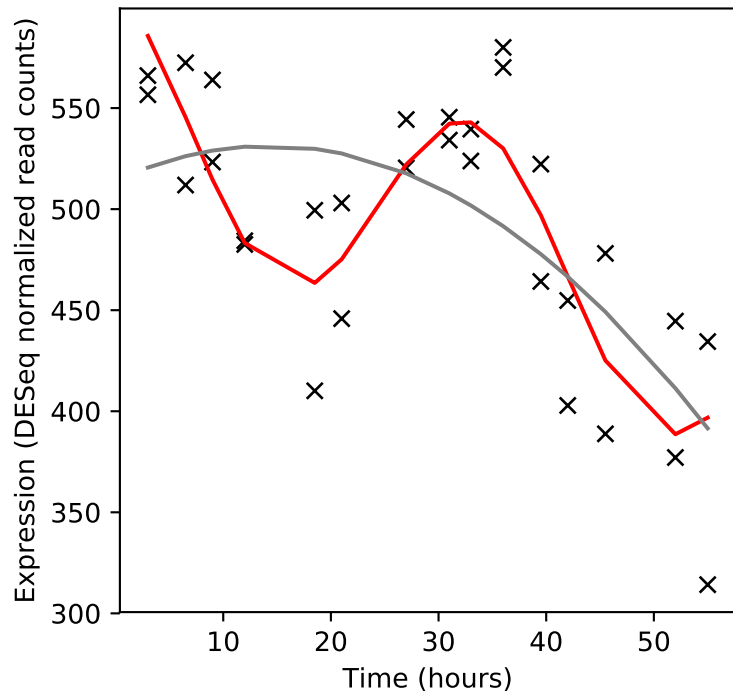
Rv3835/-



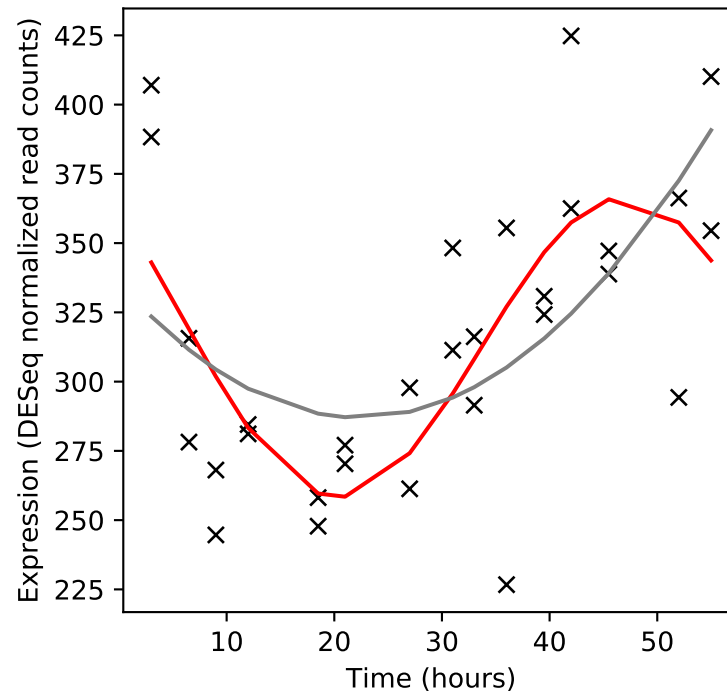
Rv3836/-



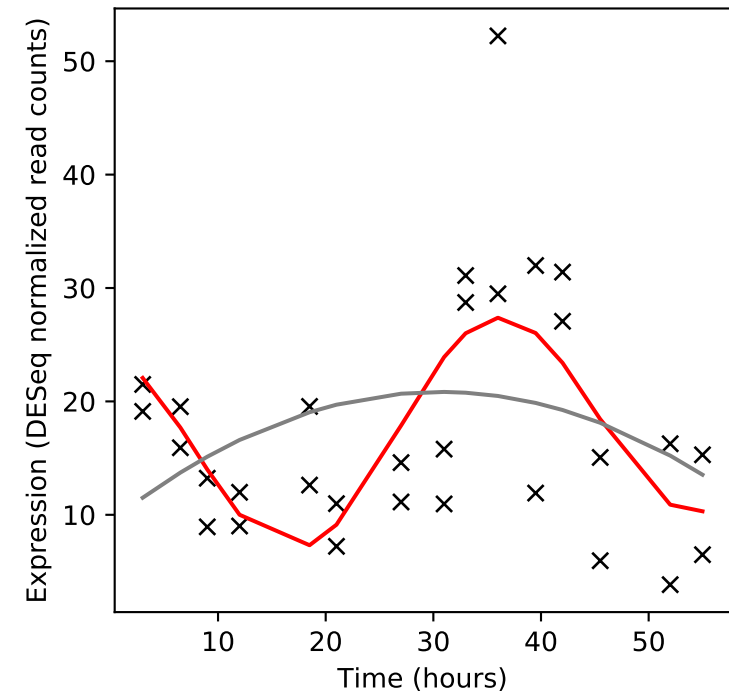
Rv3837c/-



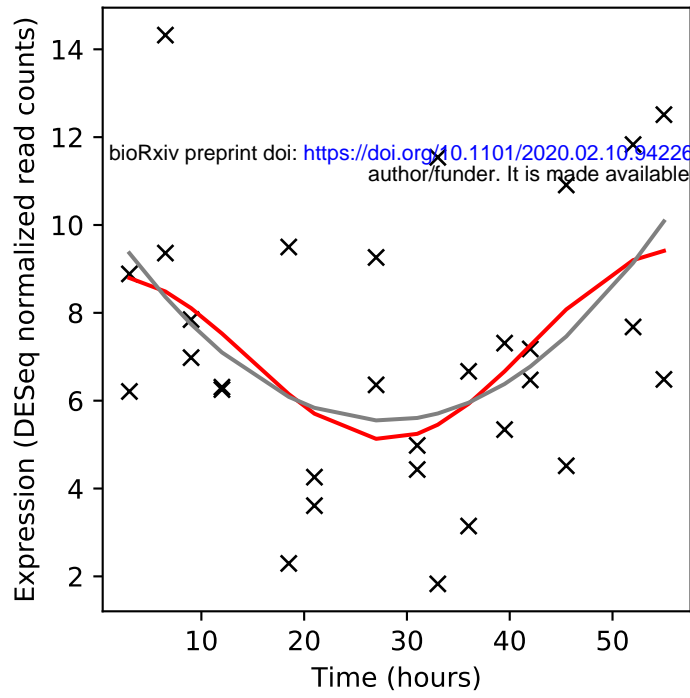
Rv3838c/pheA



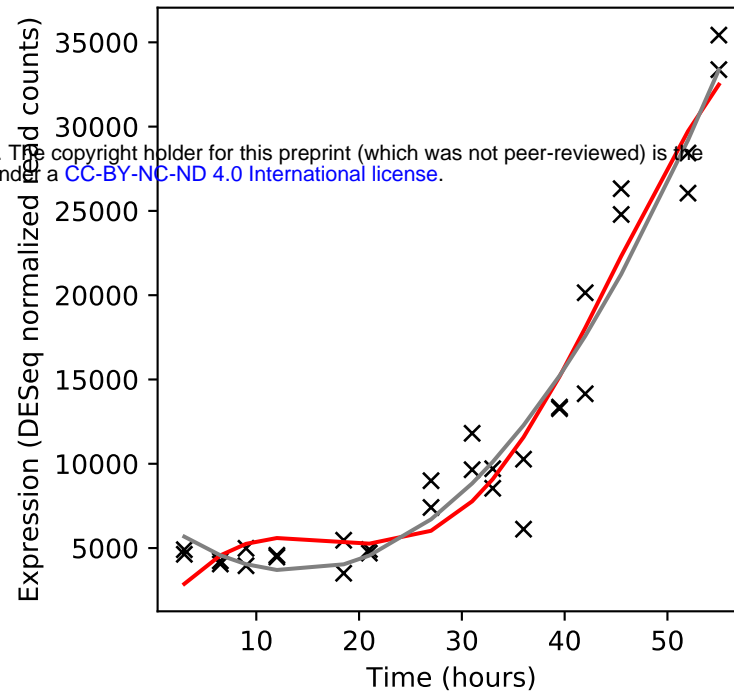
Rv3839/-



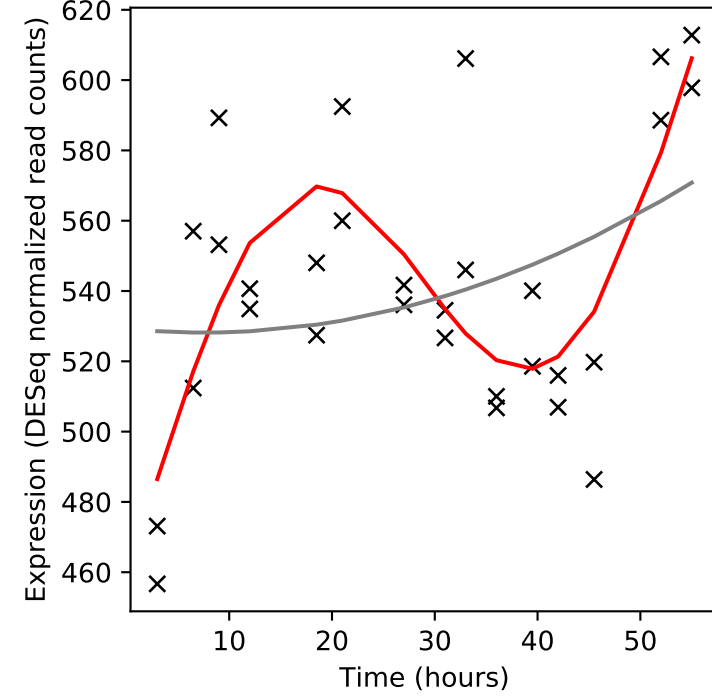
Rv3840/-



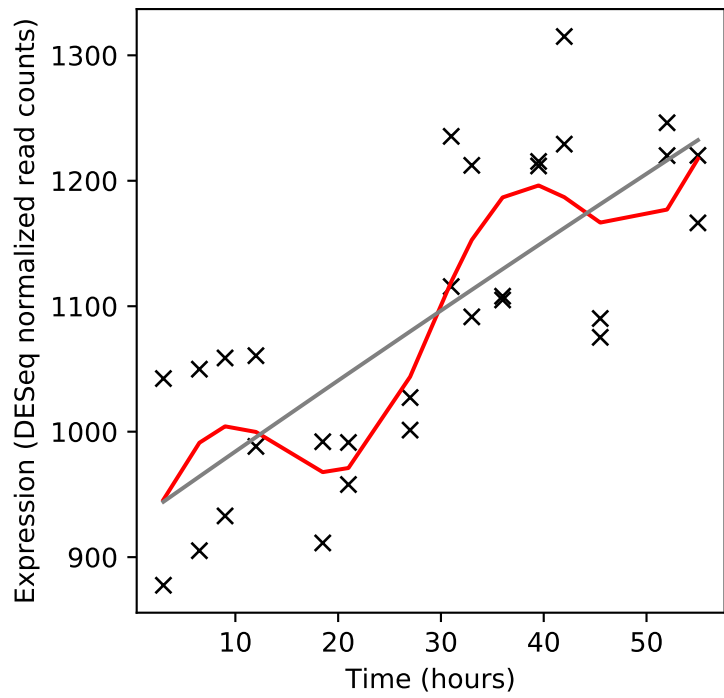
Rv3841/bfrB



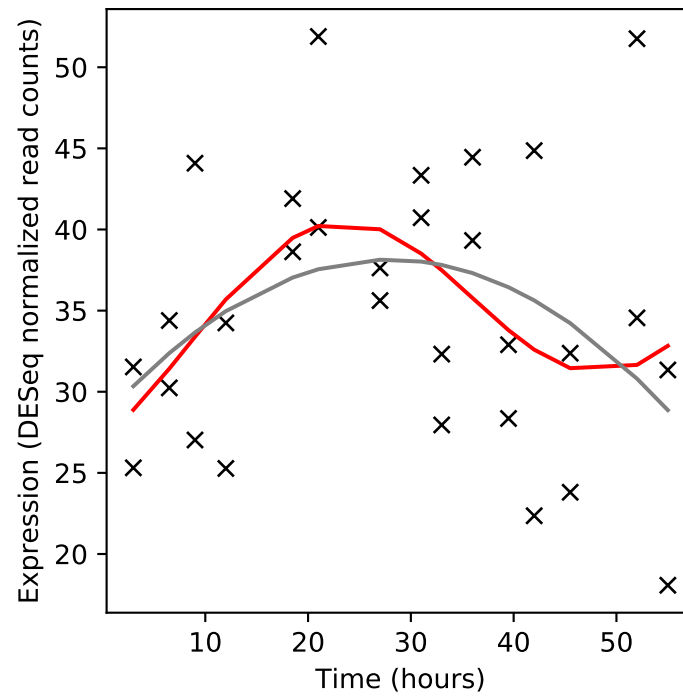
Rv3842c/glpQ1



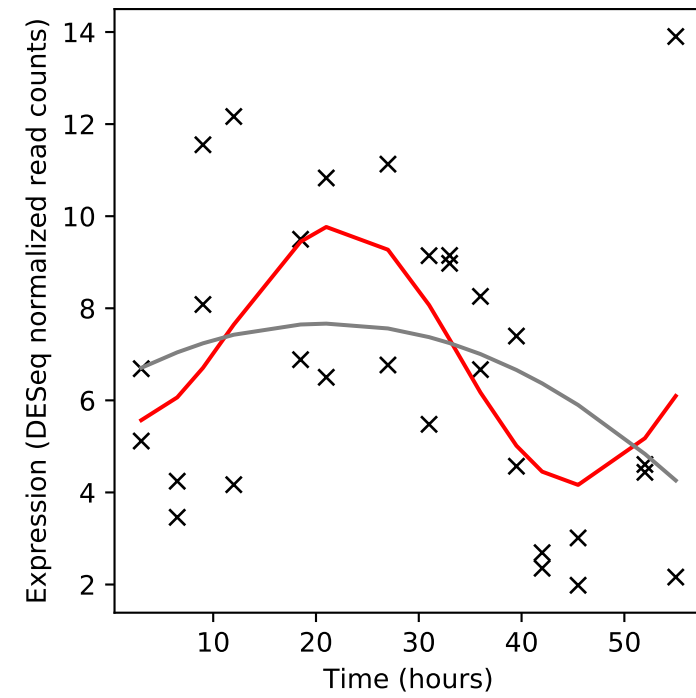
Rv3843c/-



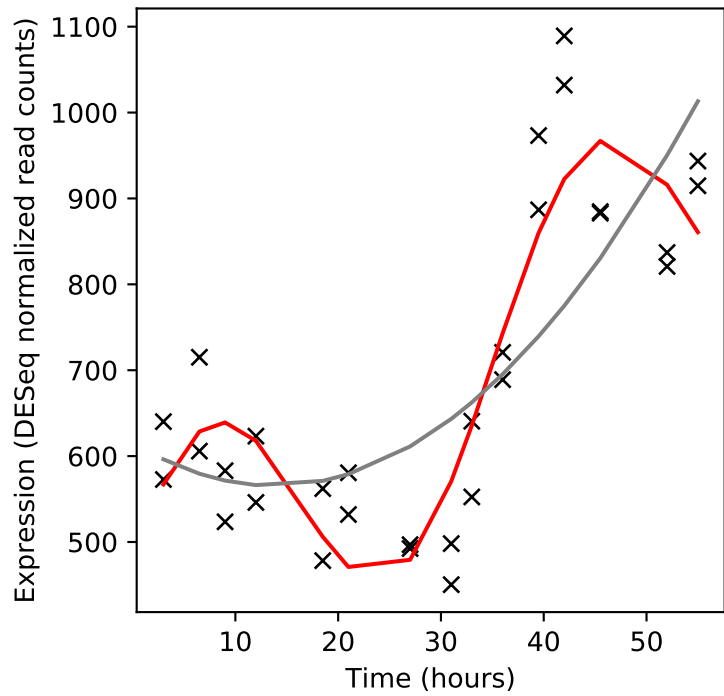
Rv3844/-



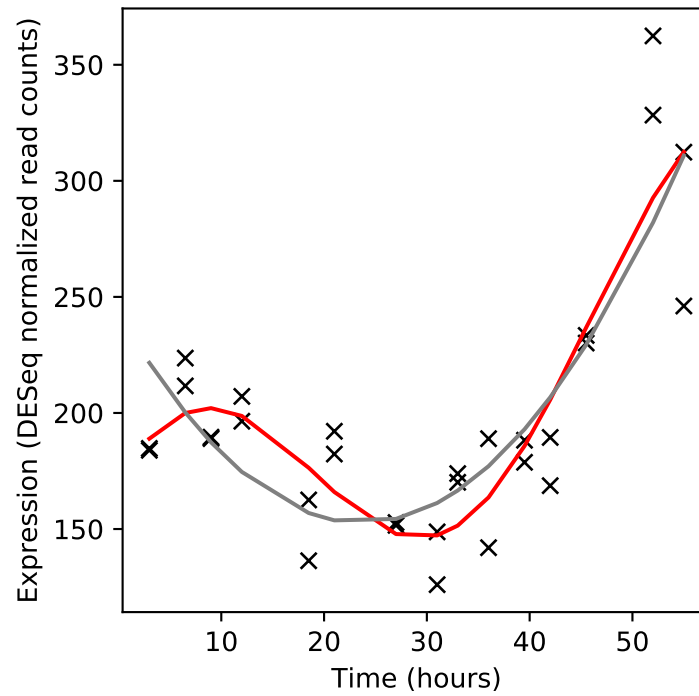
Rv3845/-



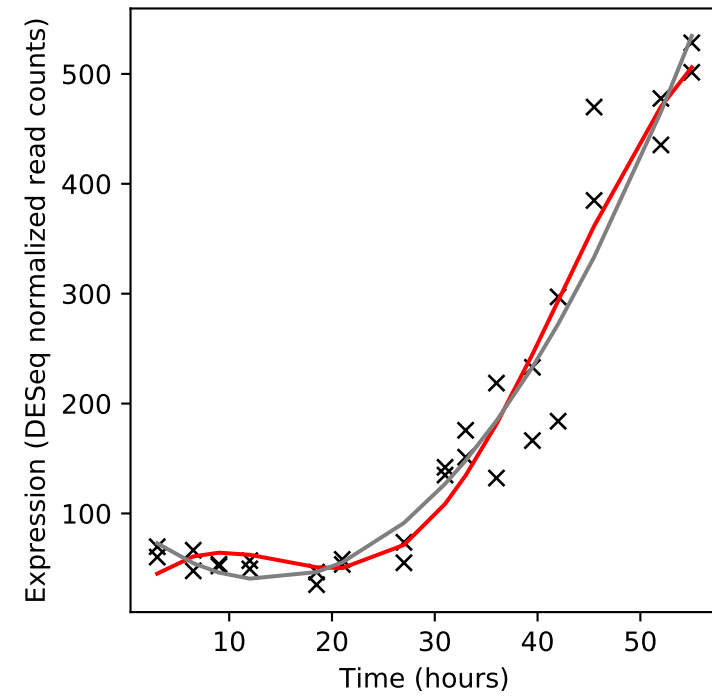
Rv3846/sodA



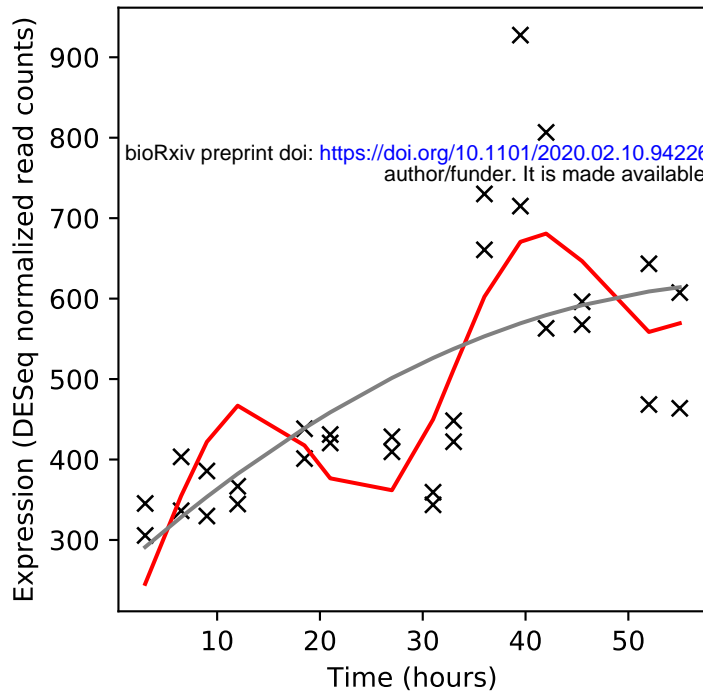
Rv3847/-



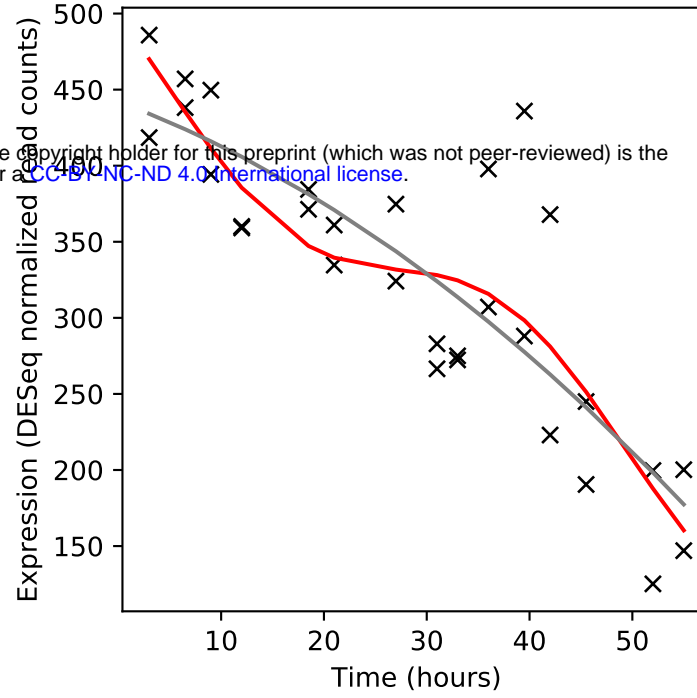
Rv3848/-



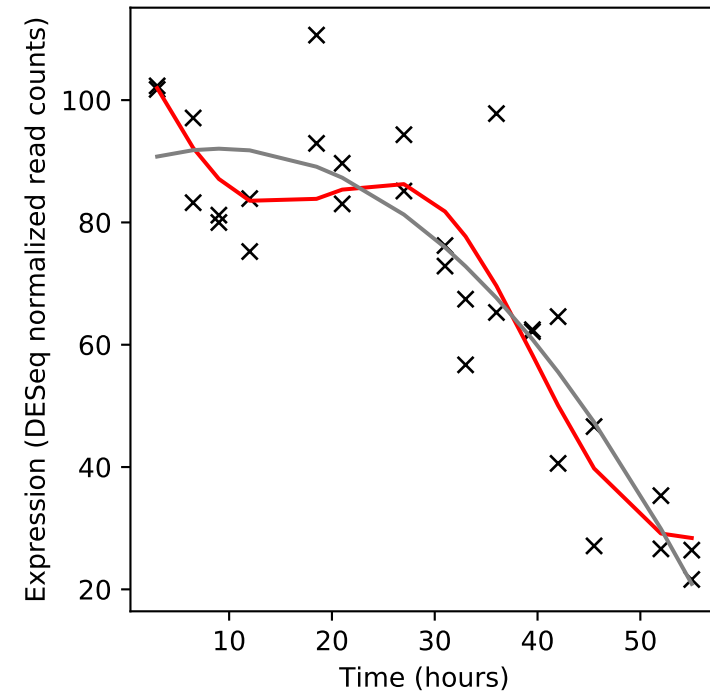
Rv3849/espR



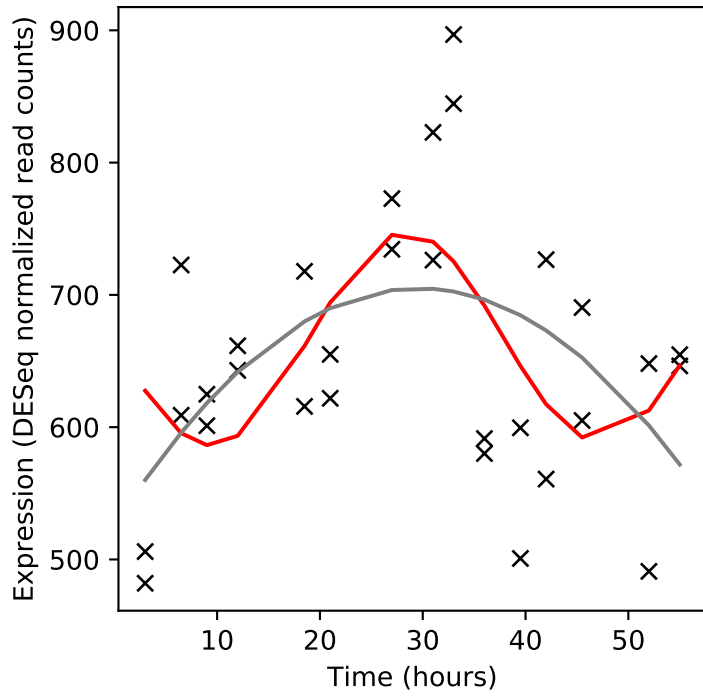
Rv3850/-



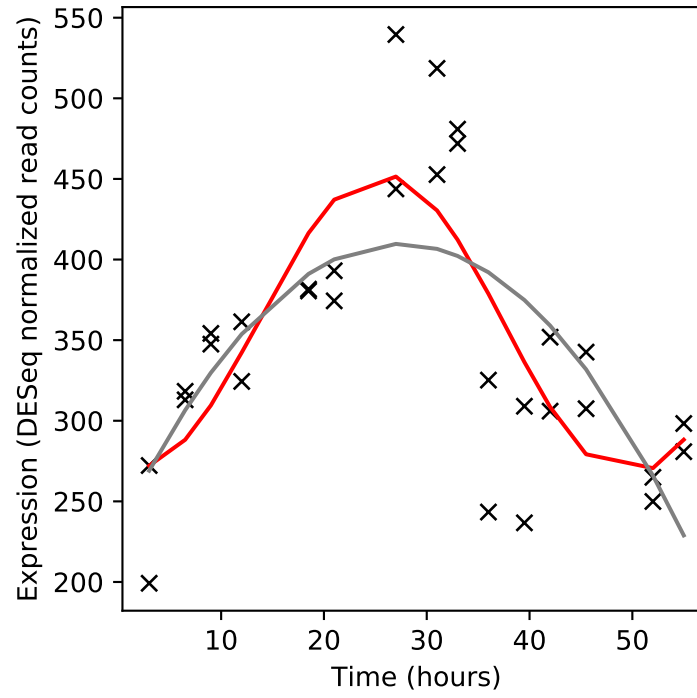
Rv3851/-



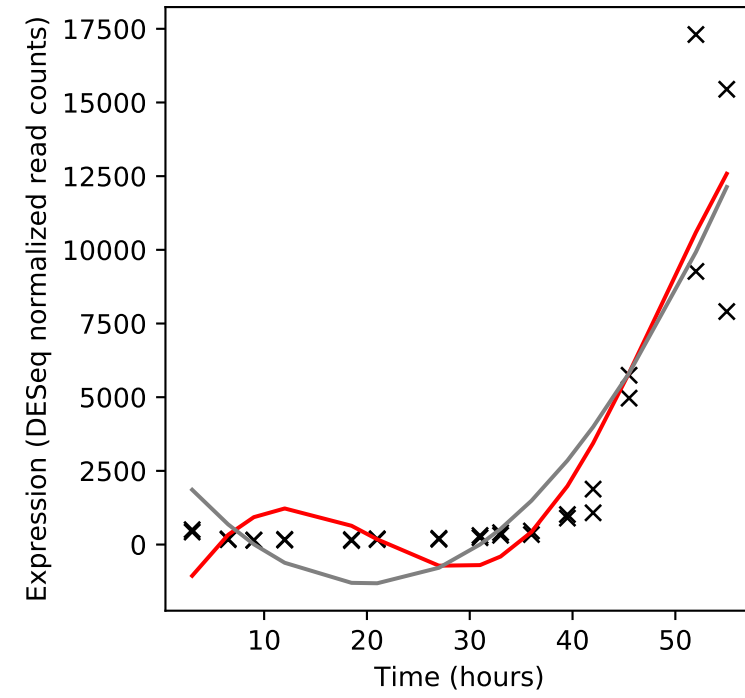
Rv3852/hns



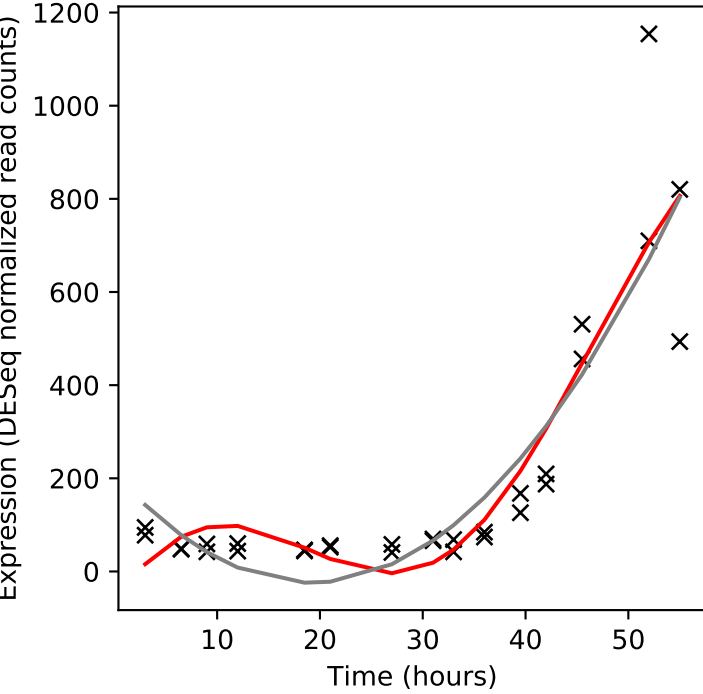
Rv3853/rraA



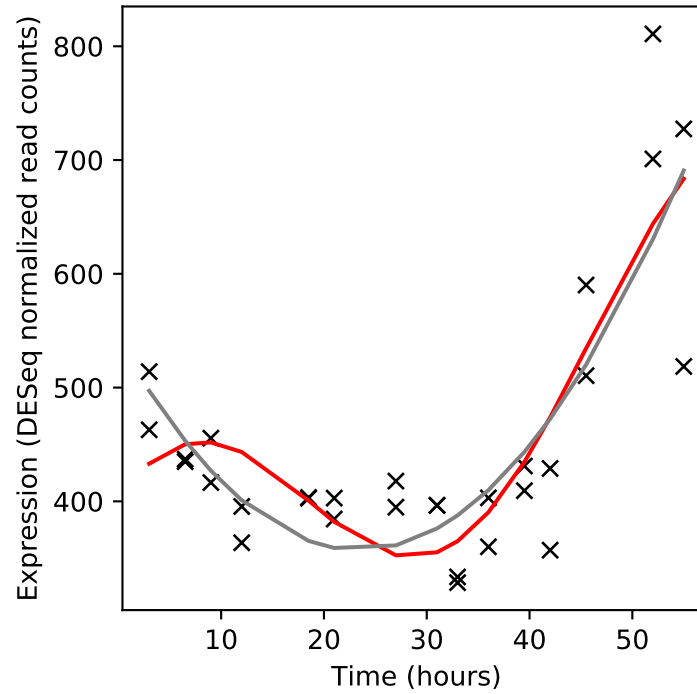
Rv3854c/ethA



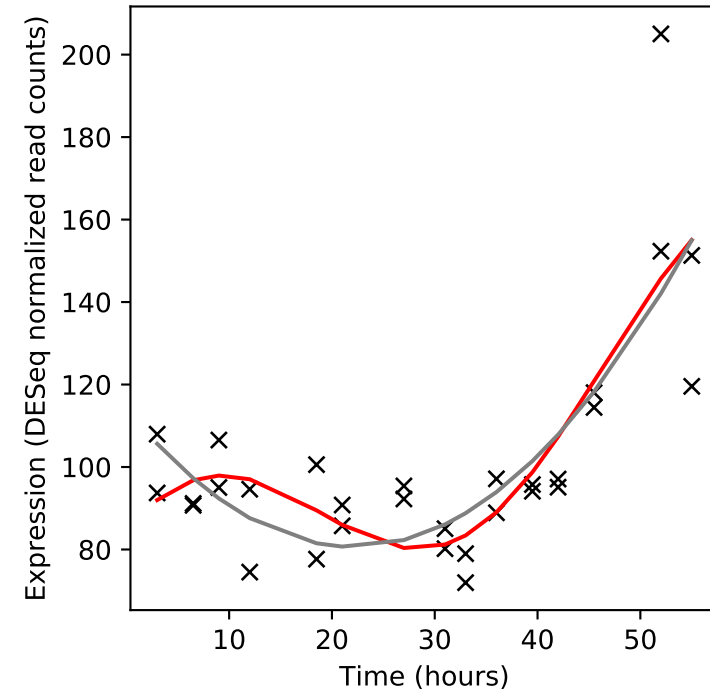
Rv3855/ethR



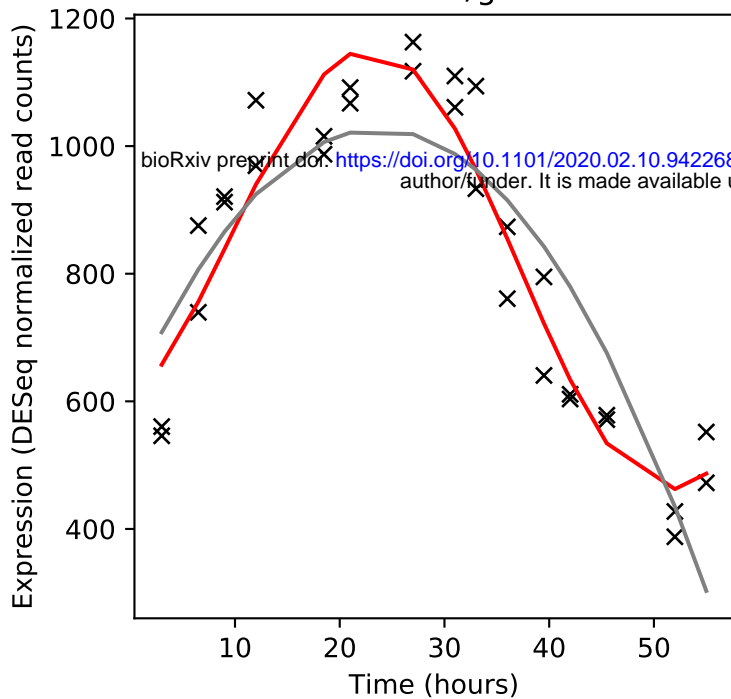
Rv3856c/-



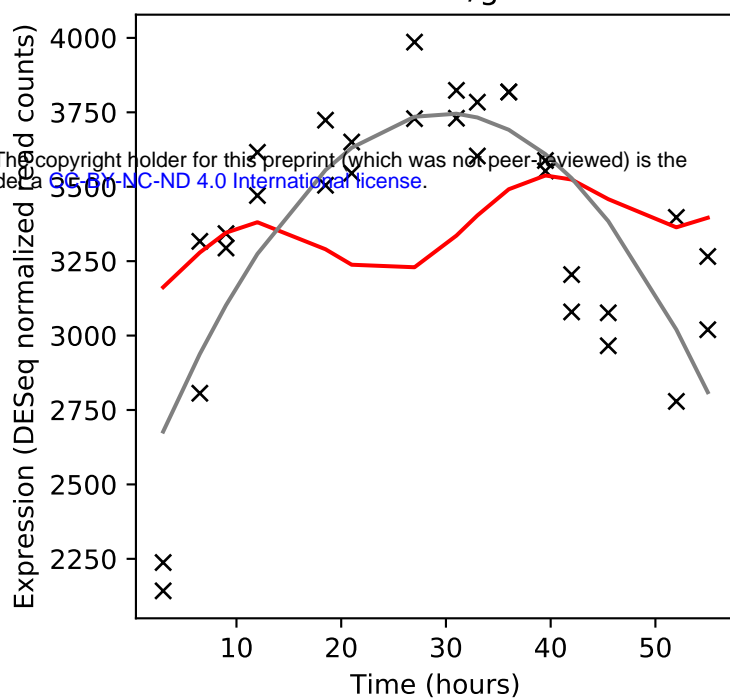
Rv3857c/-



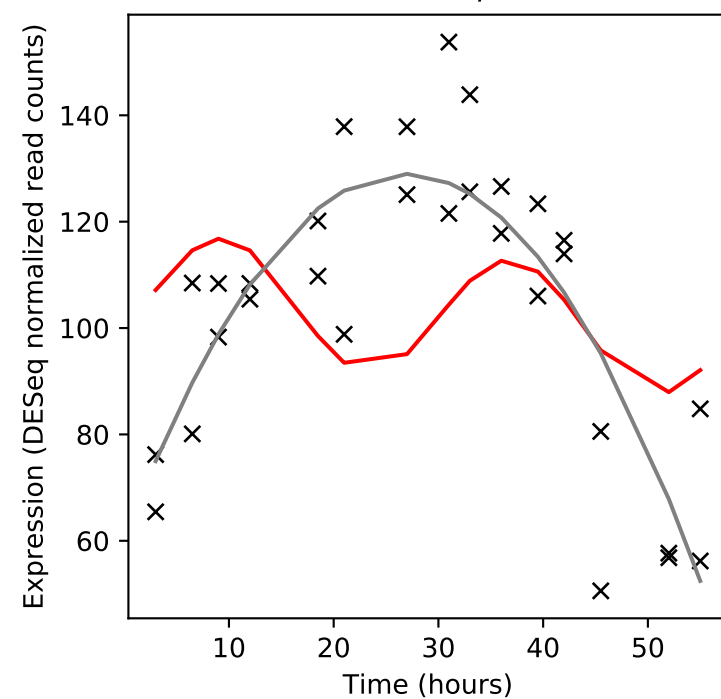
Rv3858c/gltD



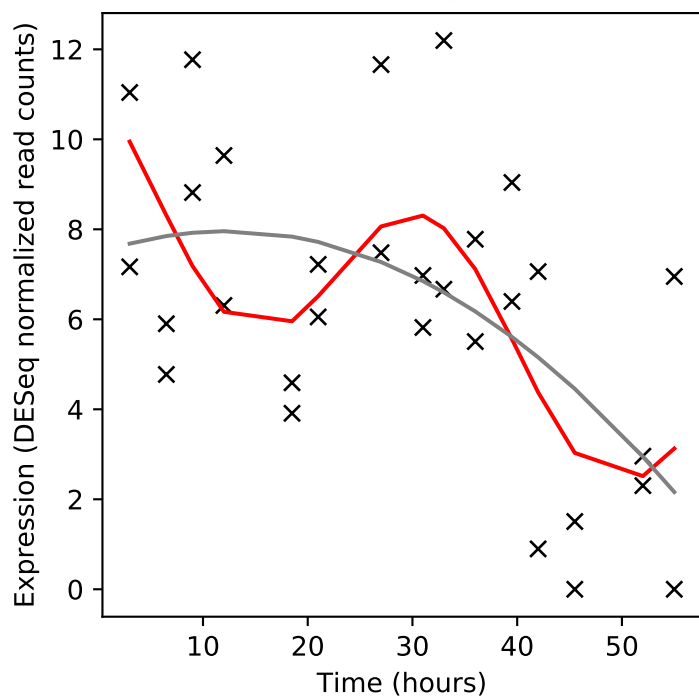
Rv3859c/gltB



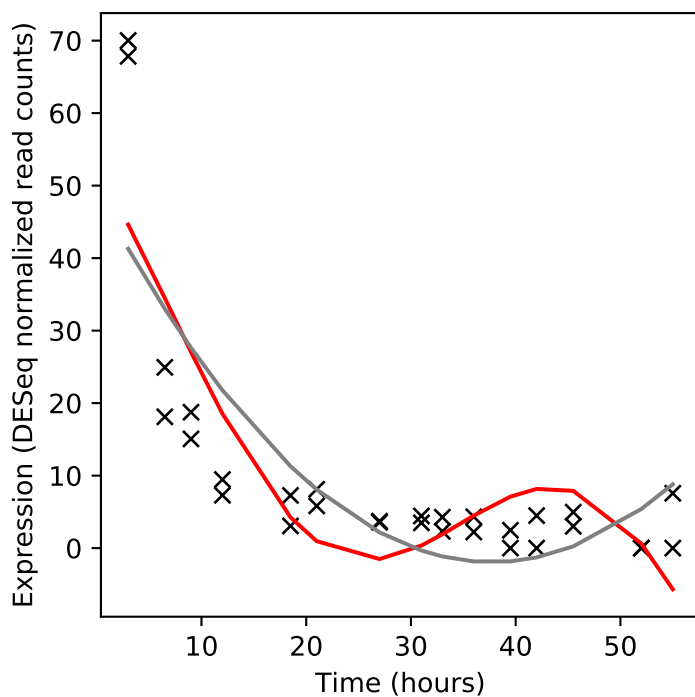
Rv3860/-



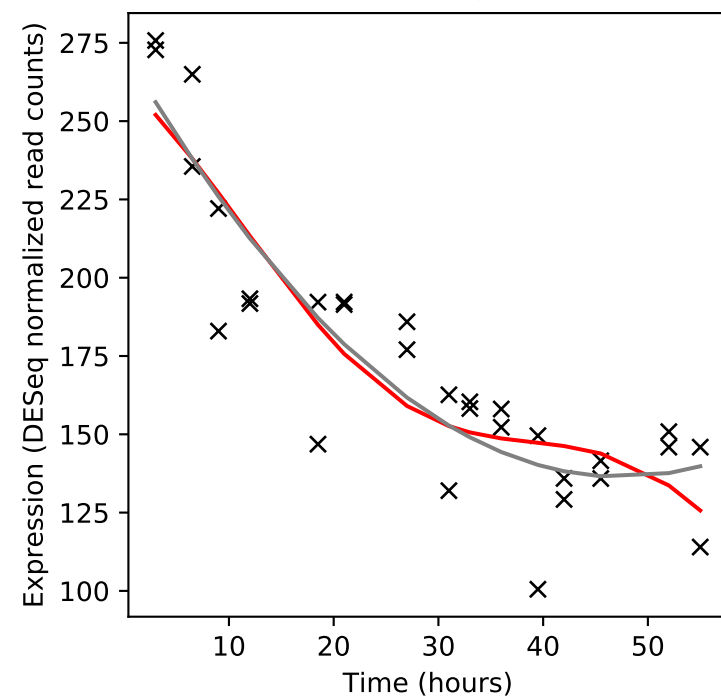
Rv3861/-



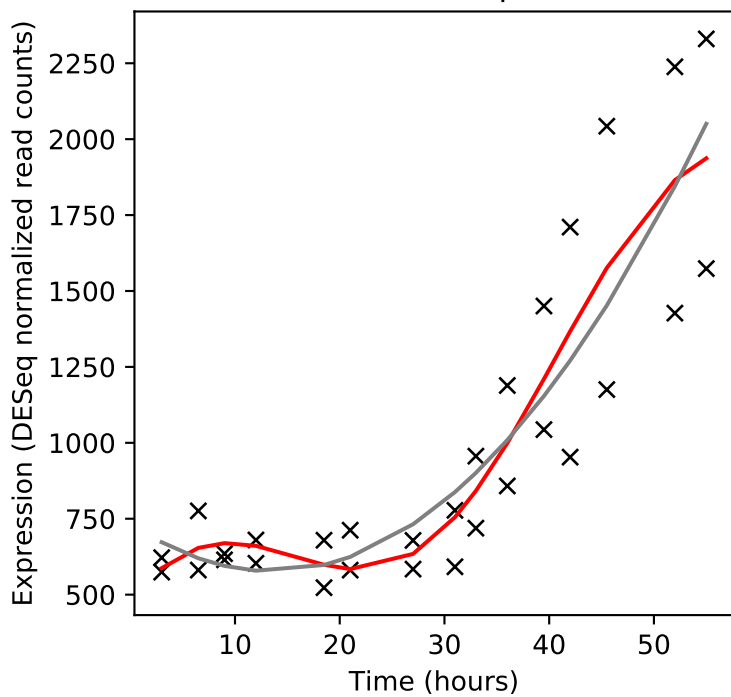
Rv3862c/whiB6



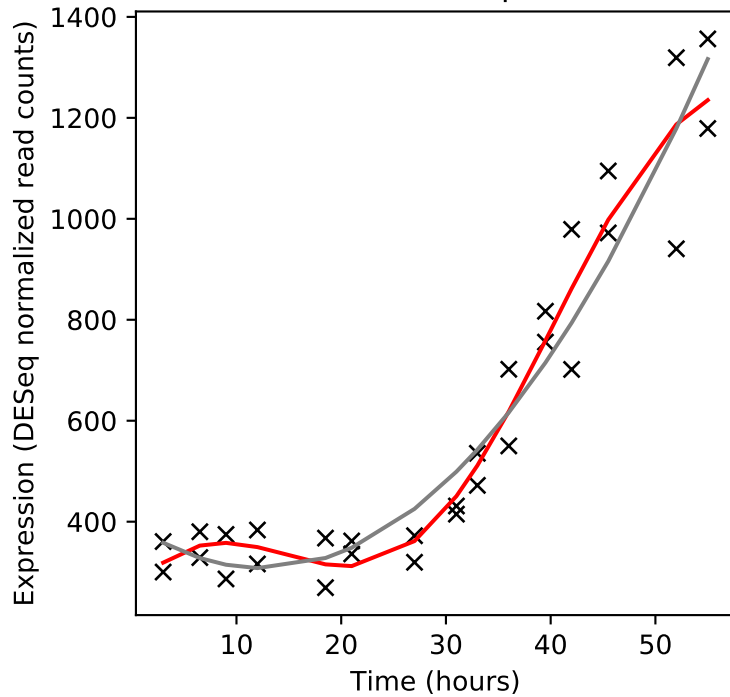
Rv3863/-



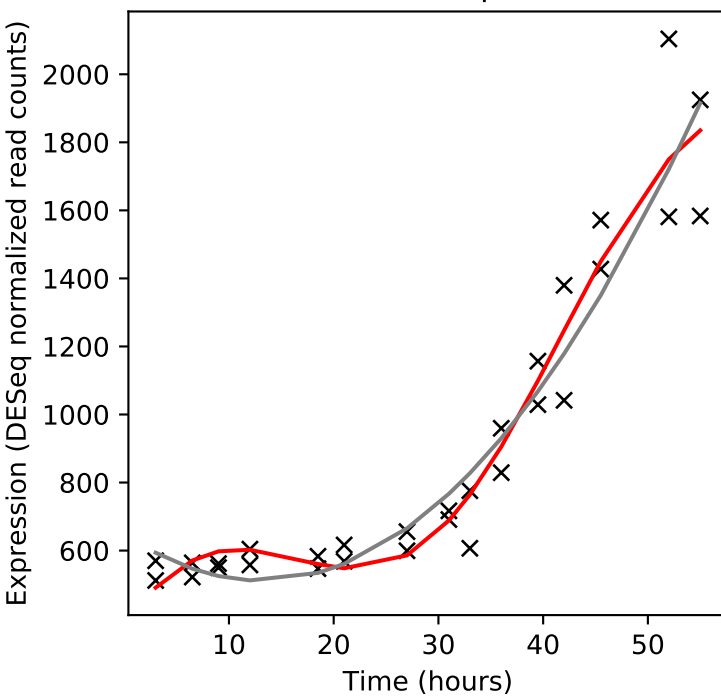
Rv3864/espE



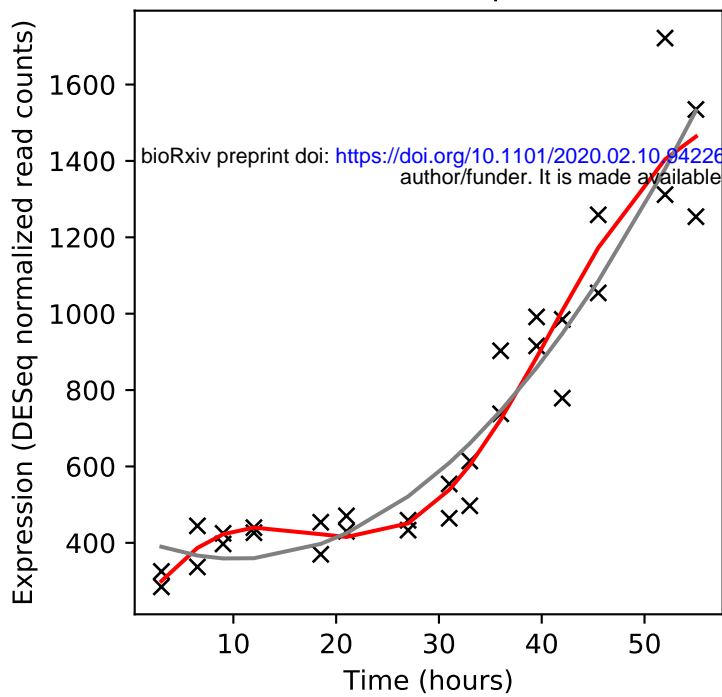
Rv3865/espF



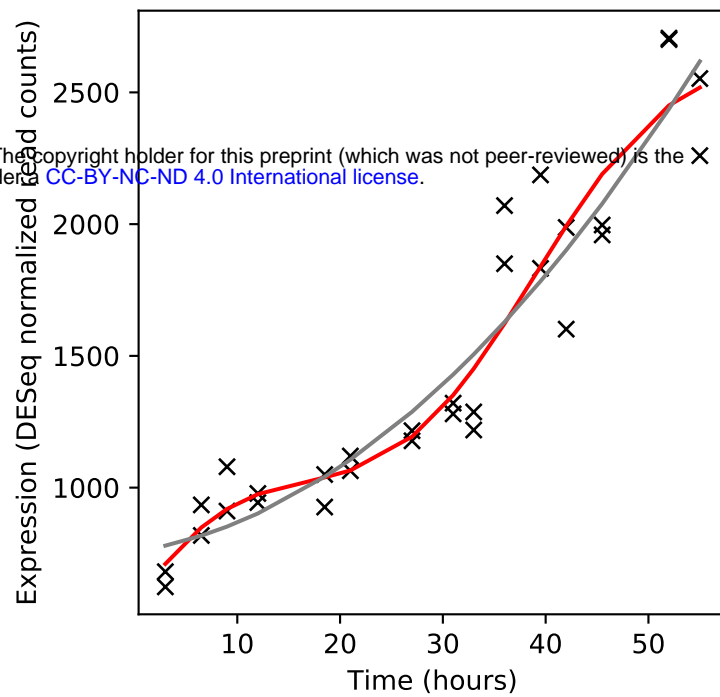
Rv3866/espG1



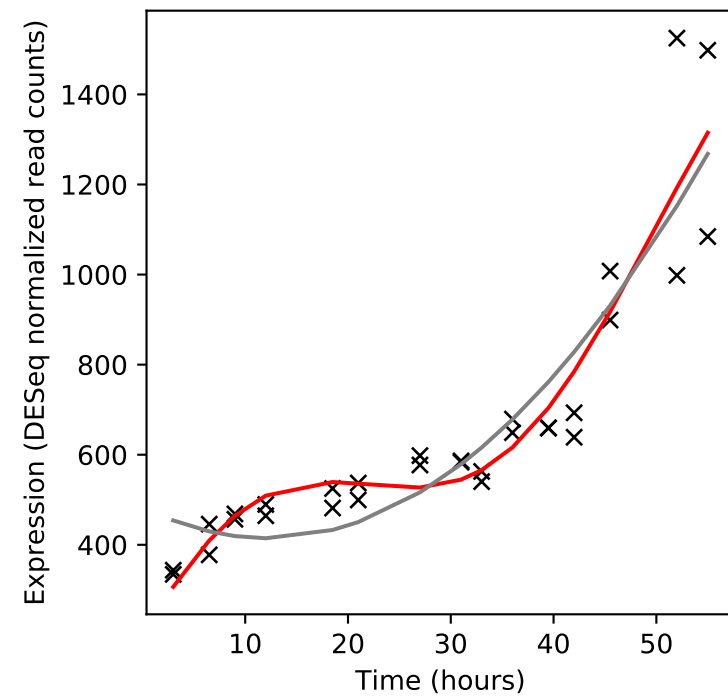
Rv3867/espH



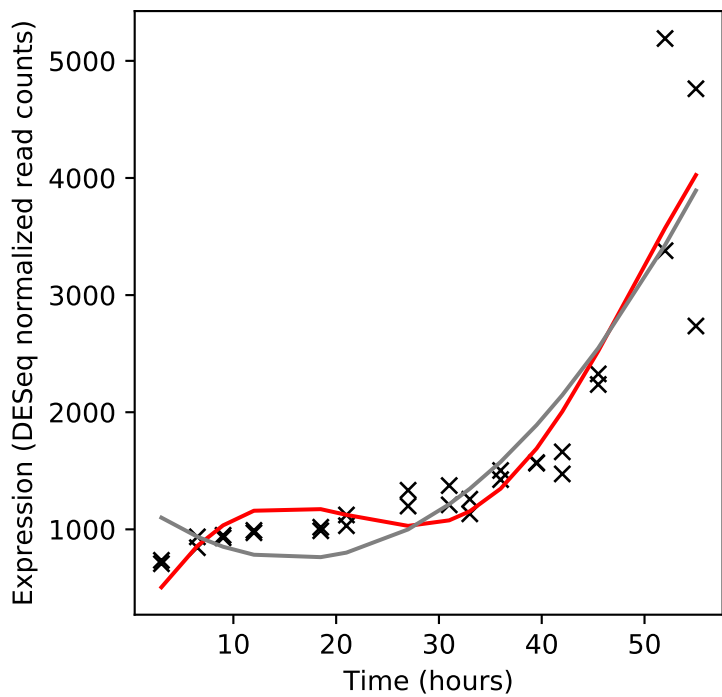
Rv3868/eccA1



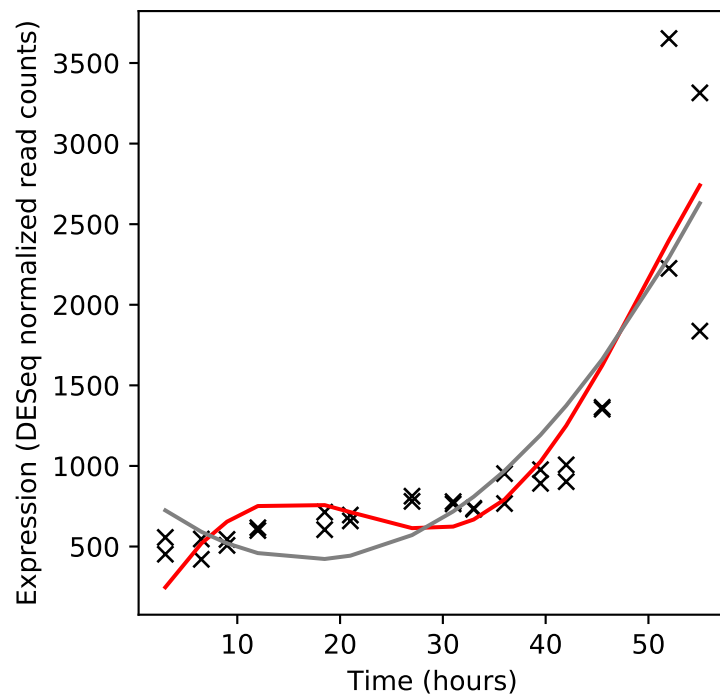
Rv3869/eccB1



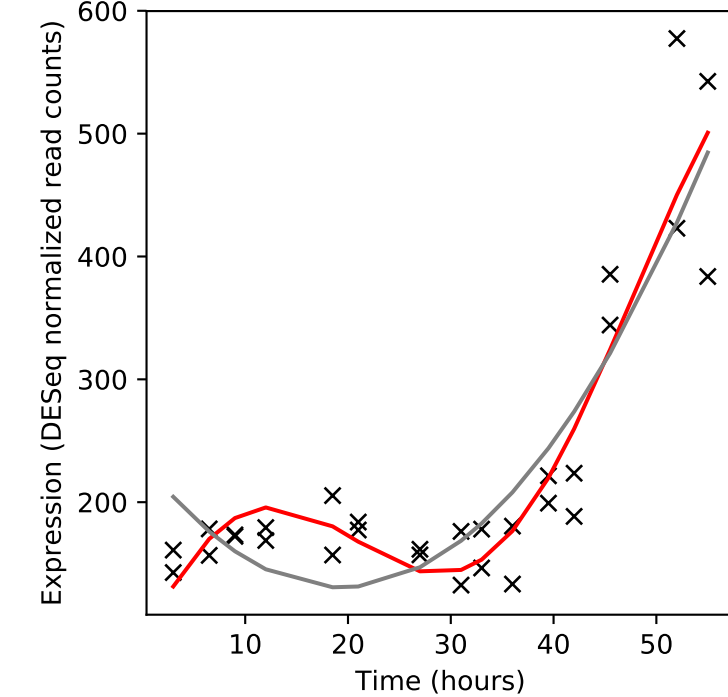
Rv3870/eccCa1



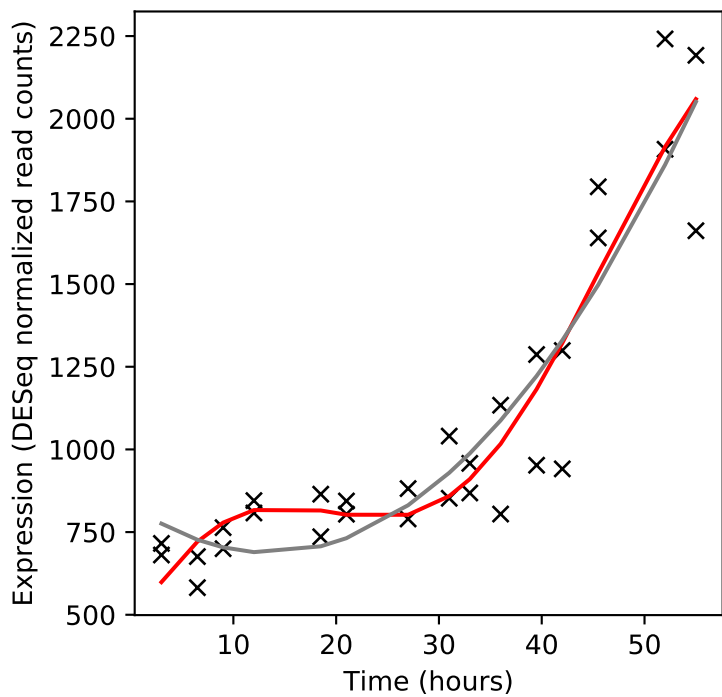
Rv3871/eccCb1



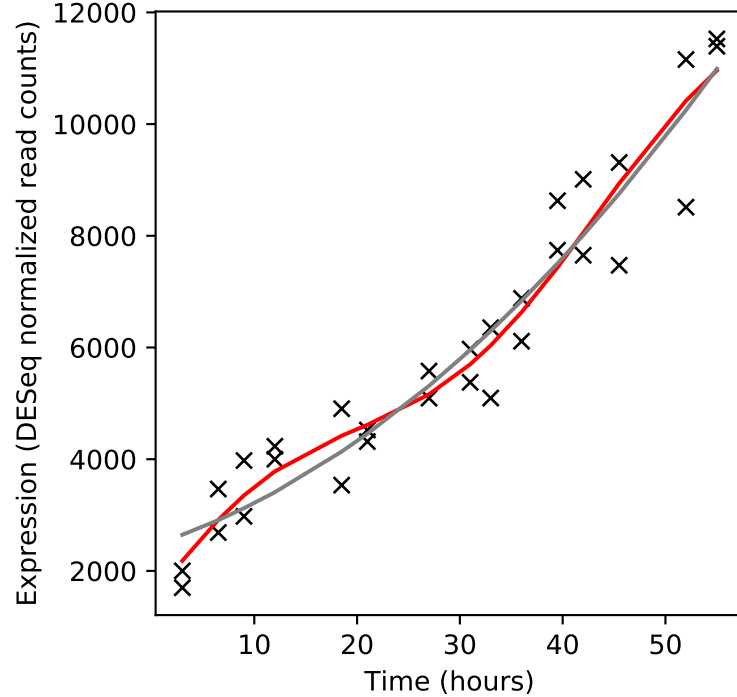
Rv3872/PE35



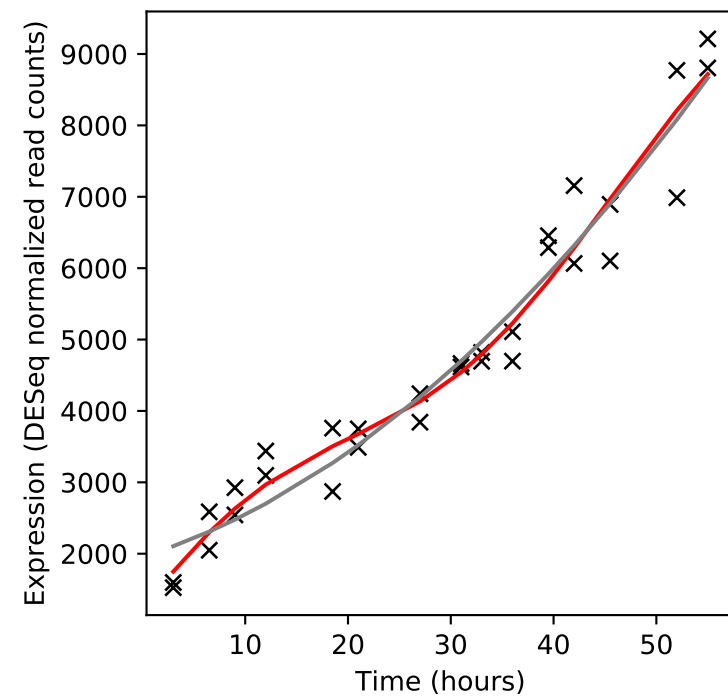
Rv3873/PPE68



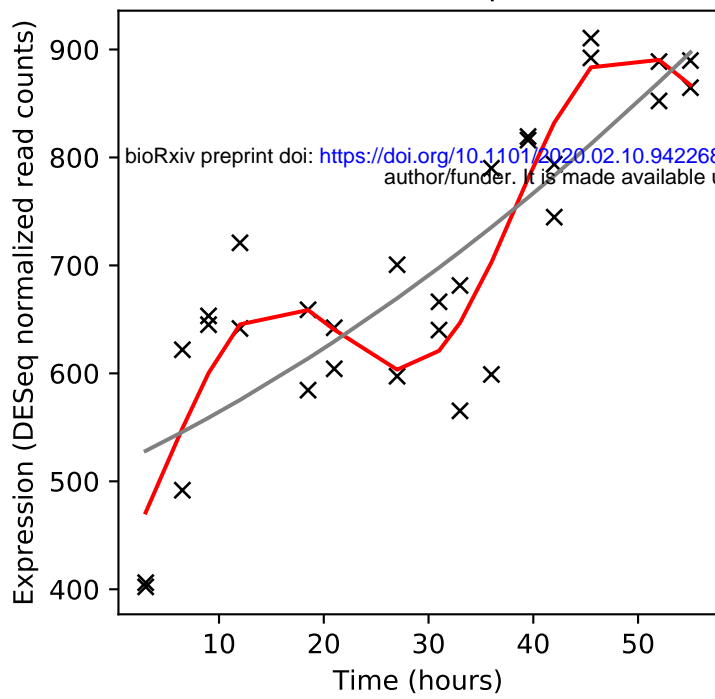
Rv3874/esxB



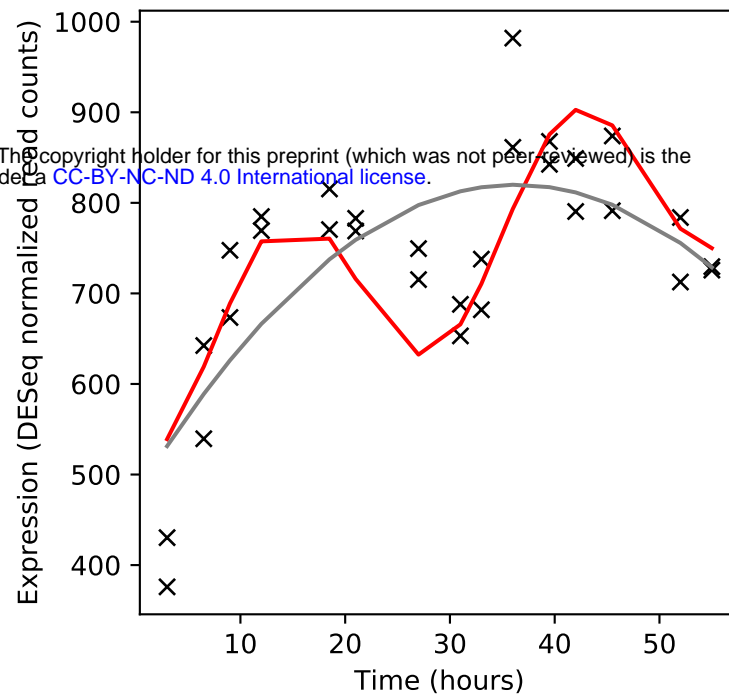
Rv3875/esxA



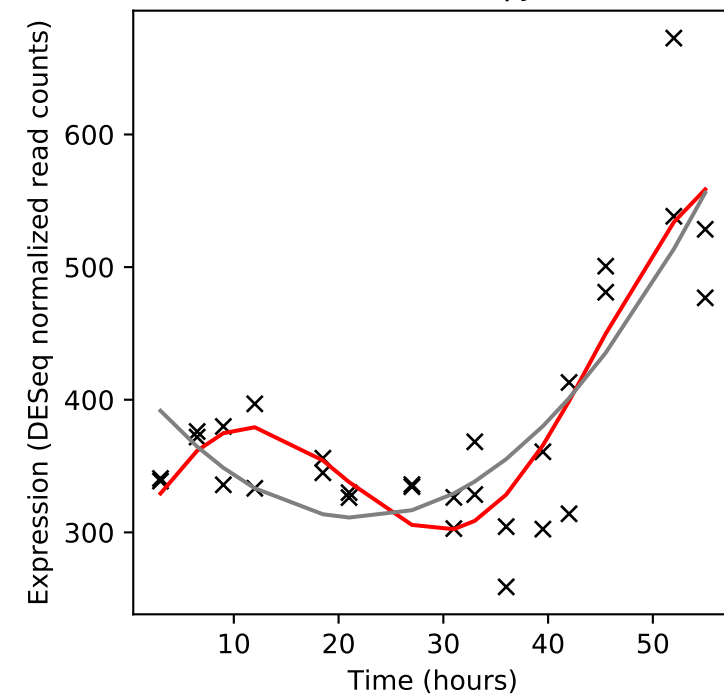
Rv3876/espl



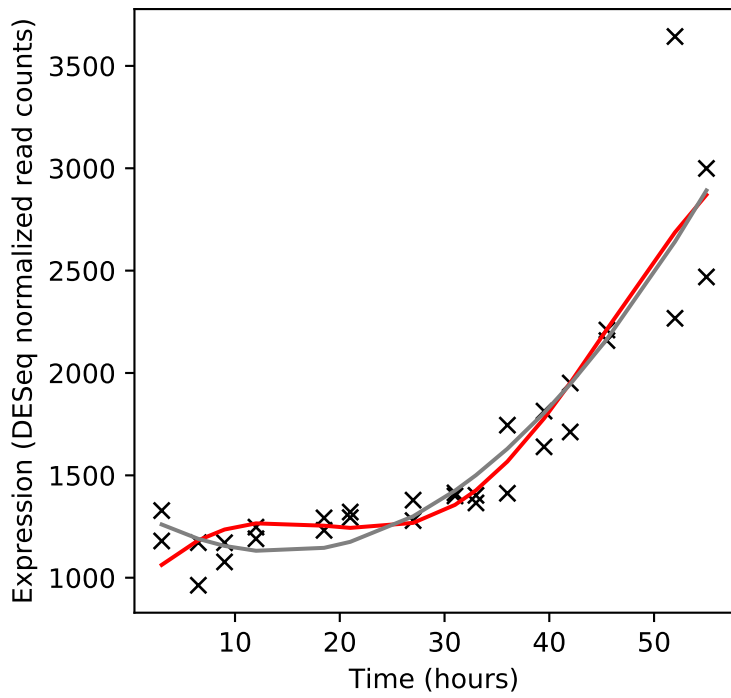
Rv3877/eccD1



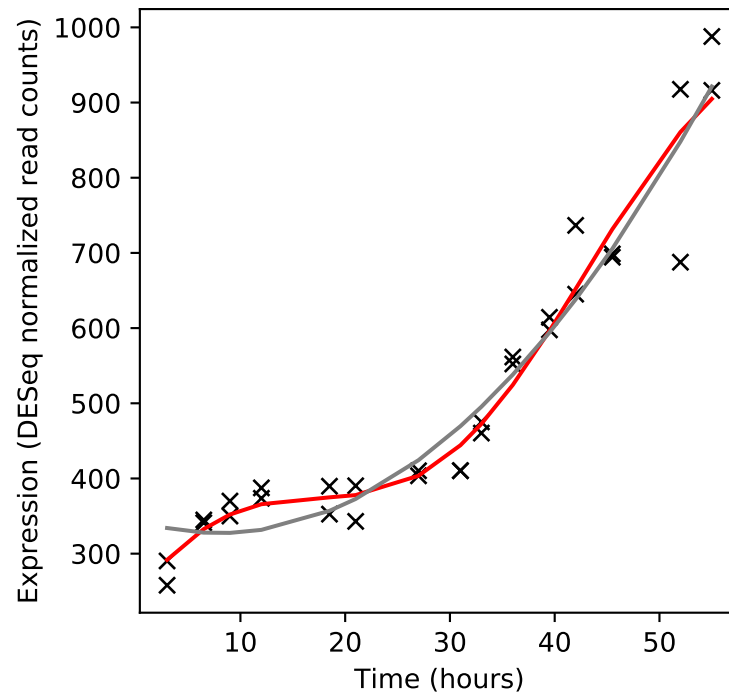
Rv3878/espl



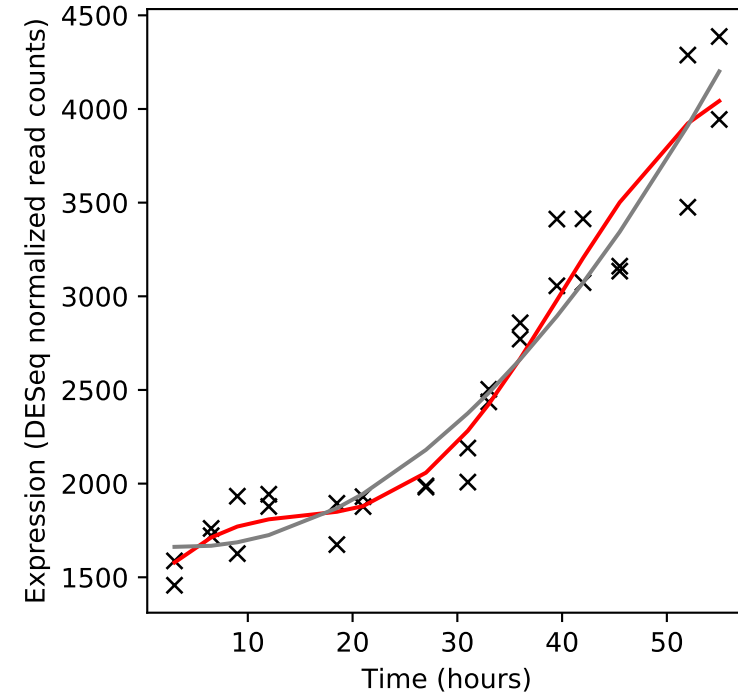
Rv3879c/espK



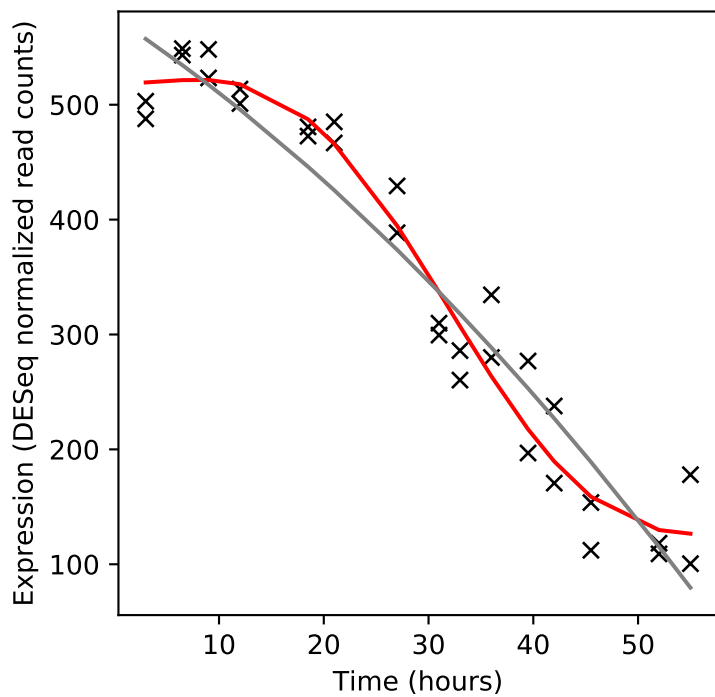
Rv3880c/espl



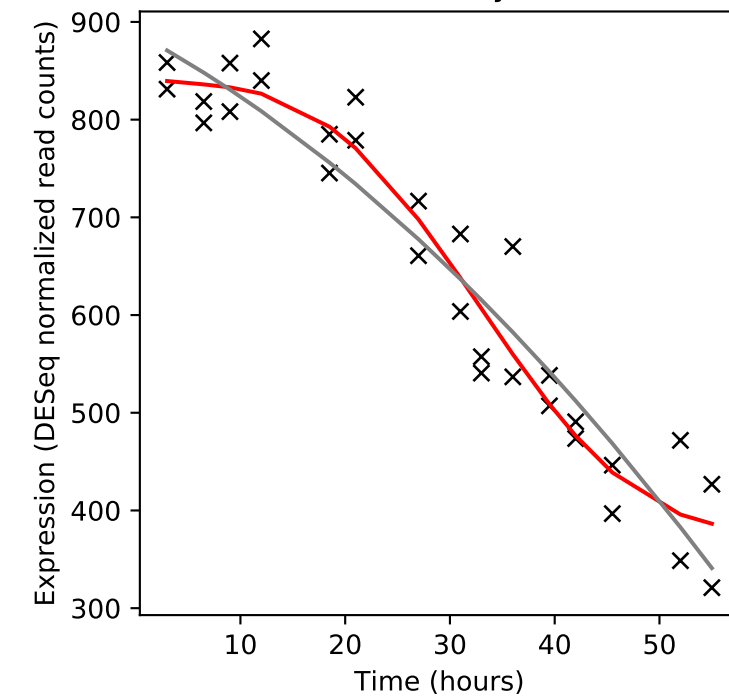
Rv3881c/espB



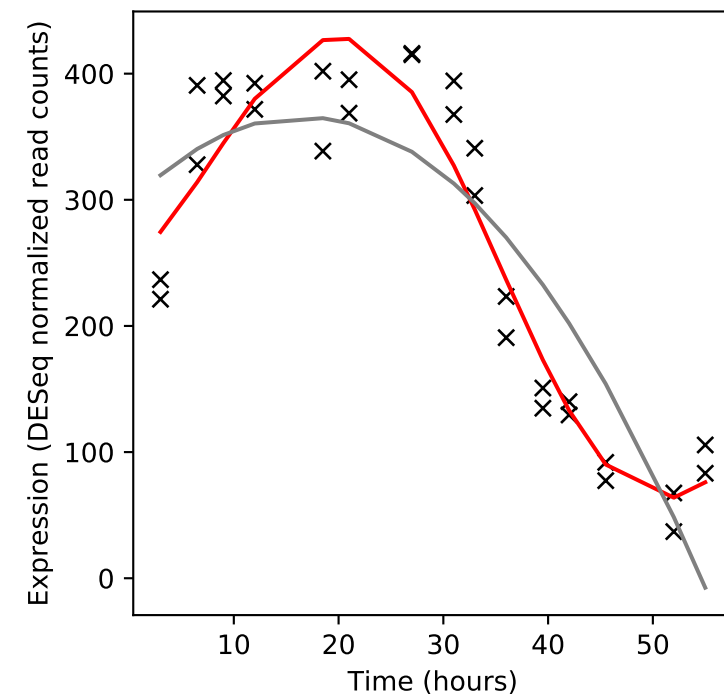
Rv3882c/eccE1



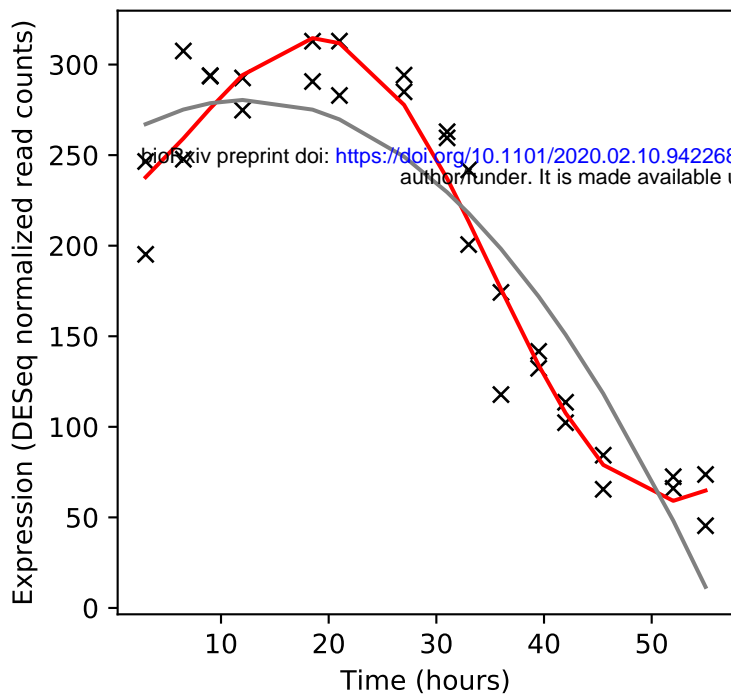
Rv3883c/mycP1



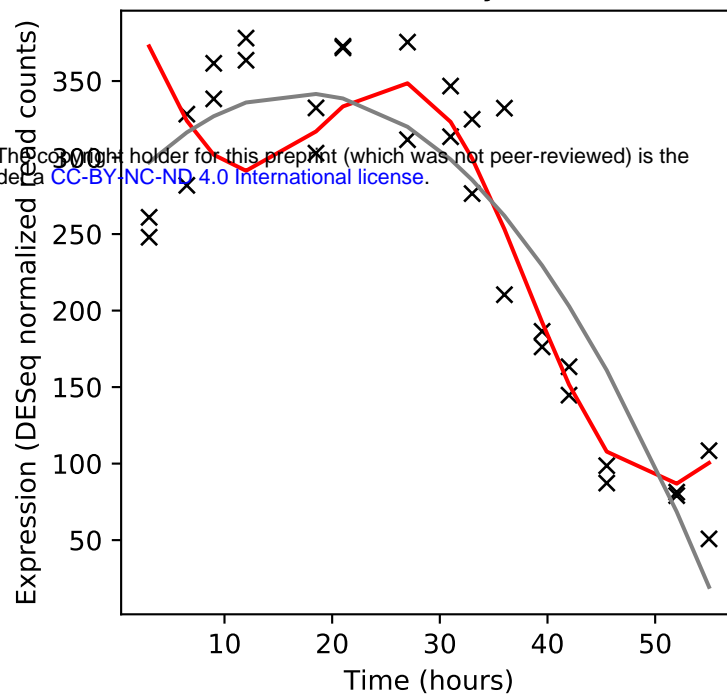
Rv3884c/eccA2



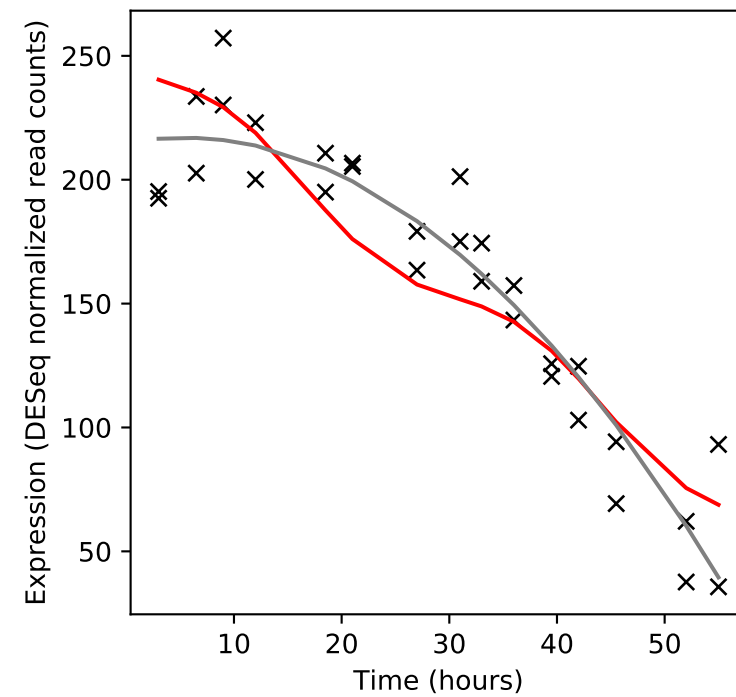
Rv3885c/eccE2



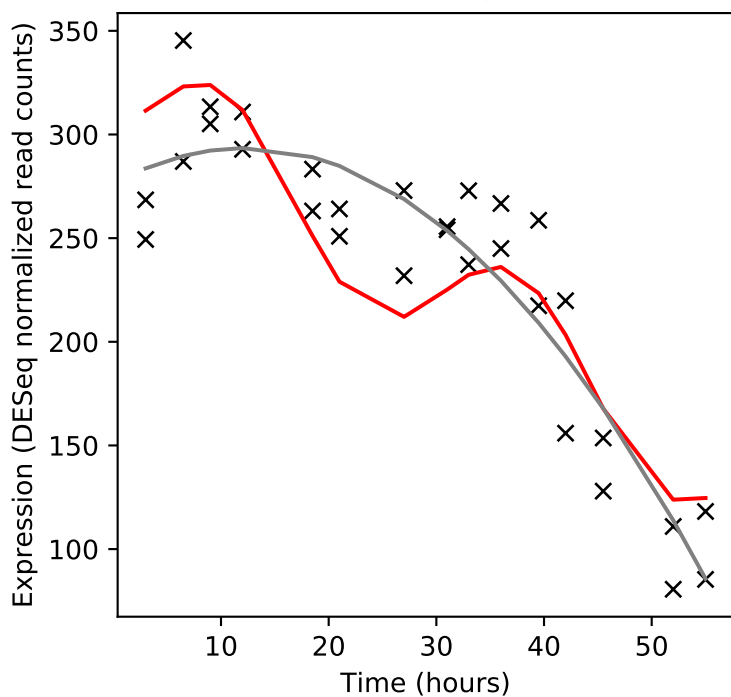
Rv3886c/mycP2



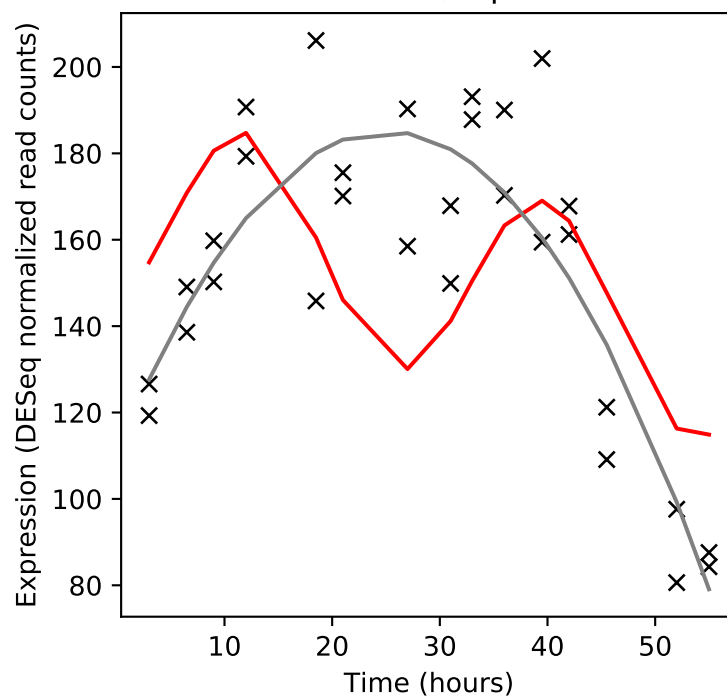
Rv3887c/eccD2



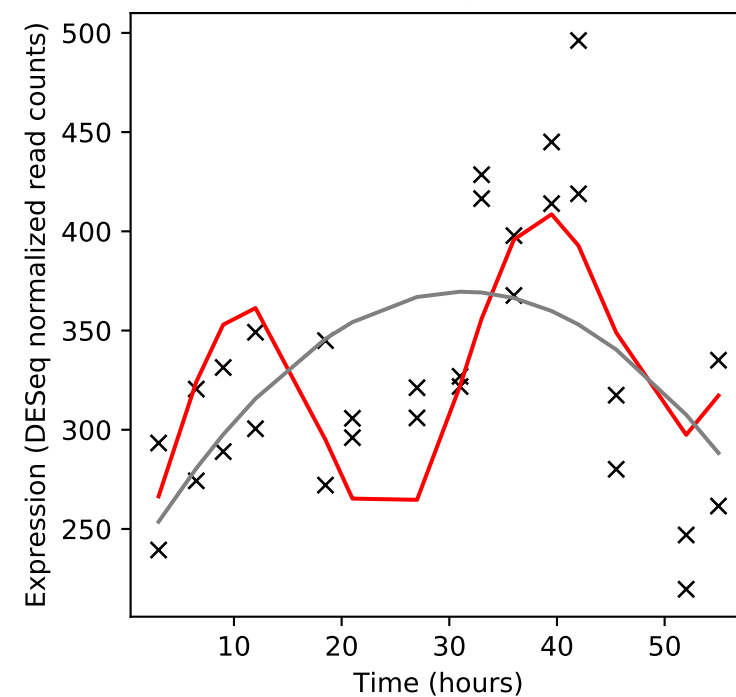
Rv3888c/-



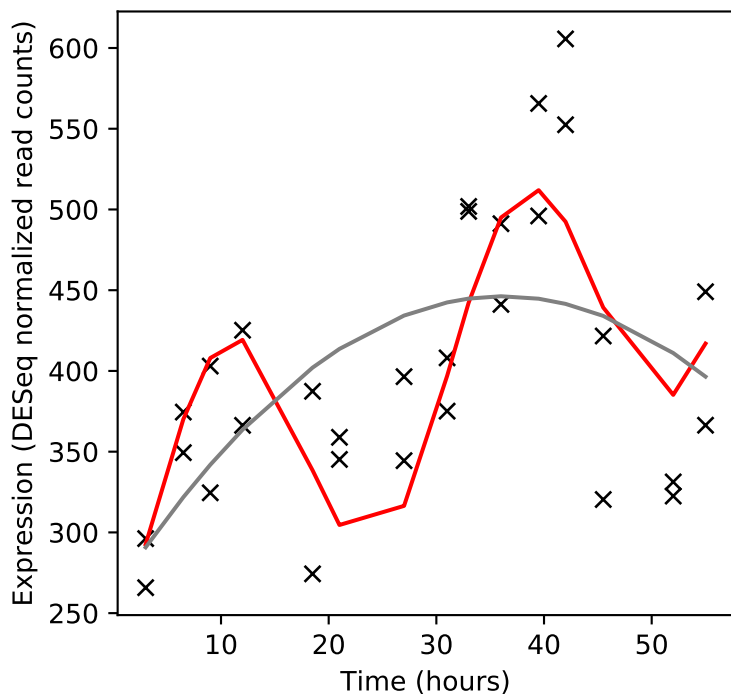
Rv3889c/espG2



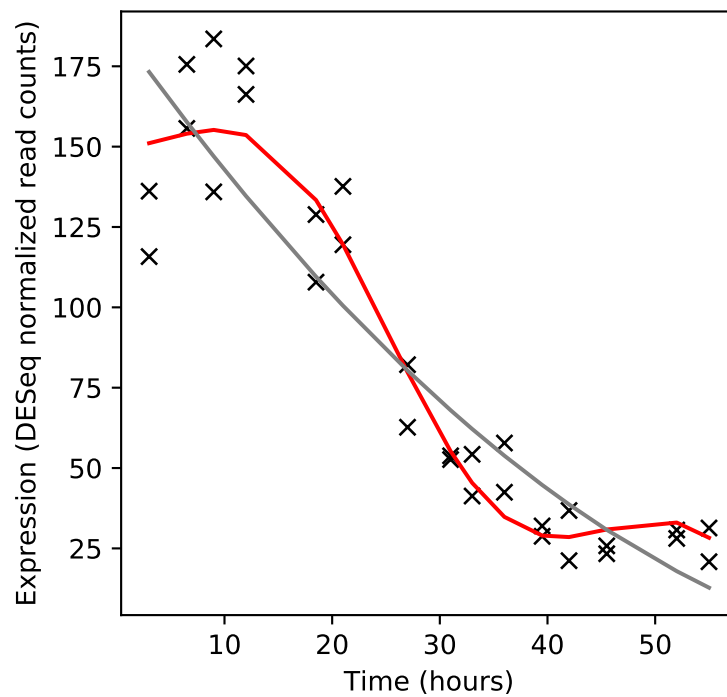
Rv3890c/esxC



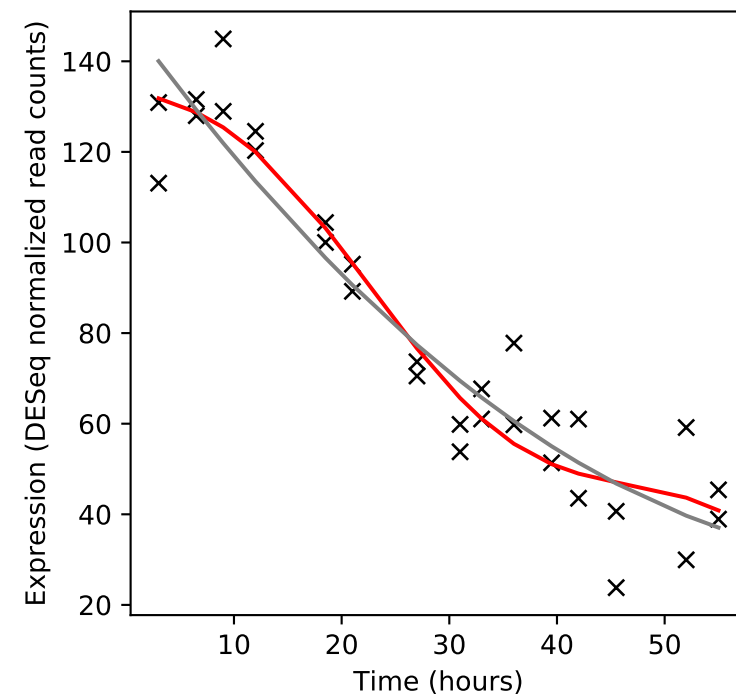
Rv3891c/esxD



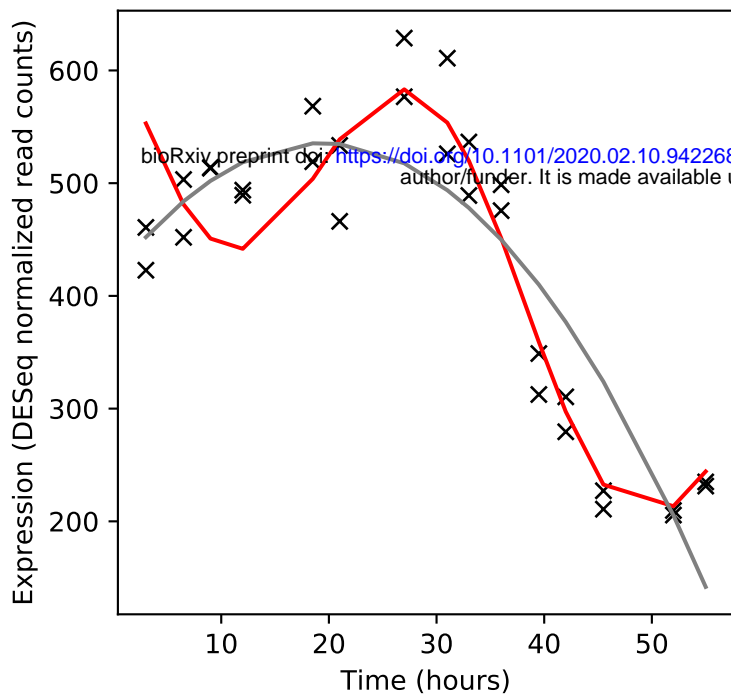
Rv3892c/PPE69



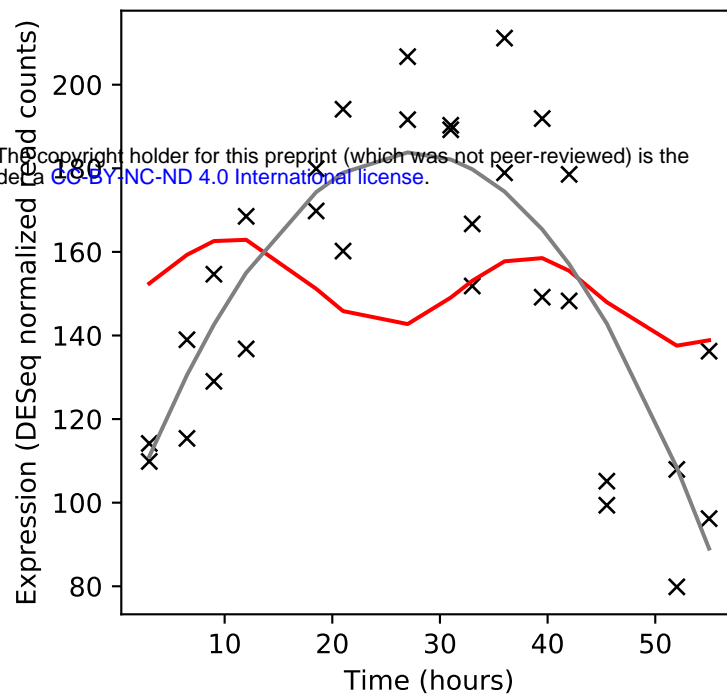
Rv3893c/PE36



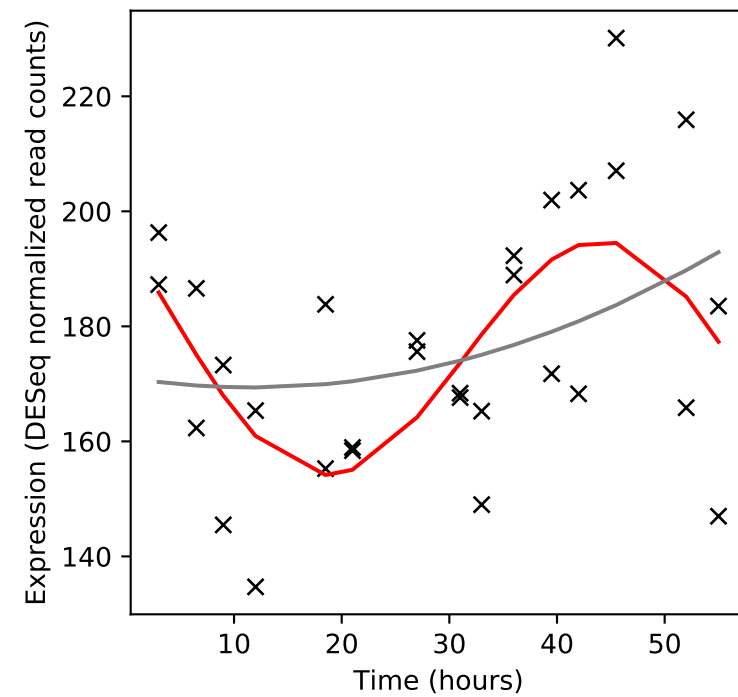
Rv3894c/eccC2



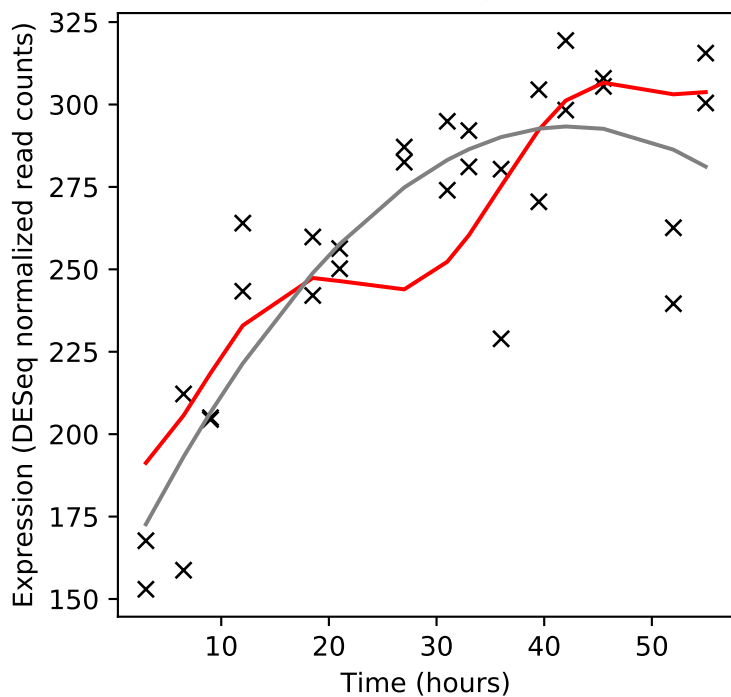
Rv3895c/eccB2



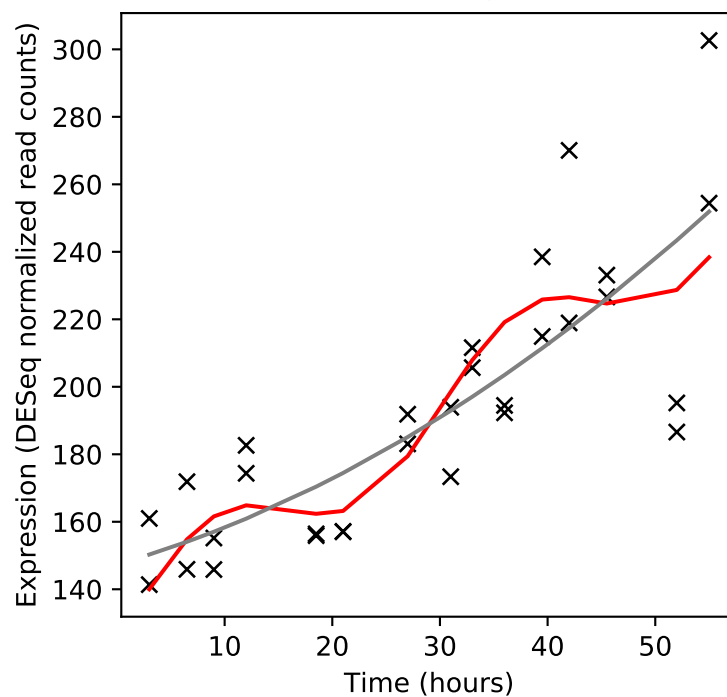
Rv3896c/-



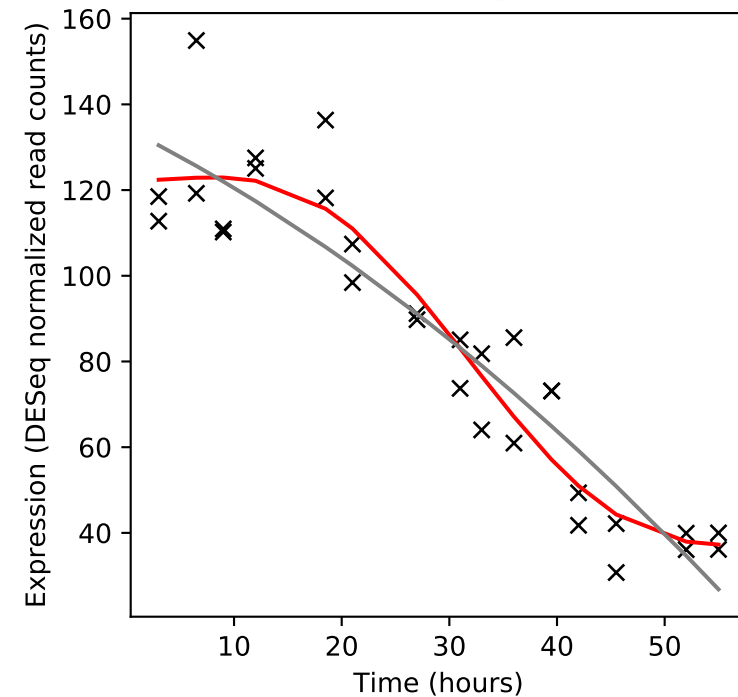
Rv3897c/-



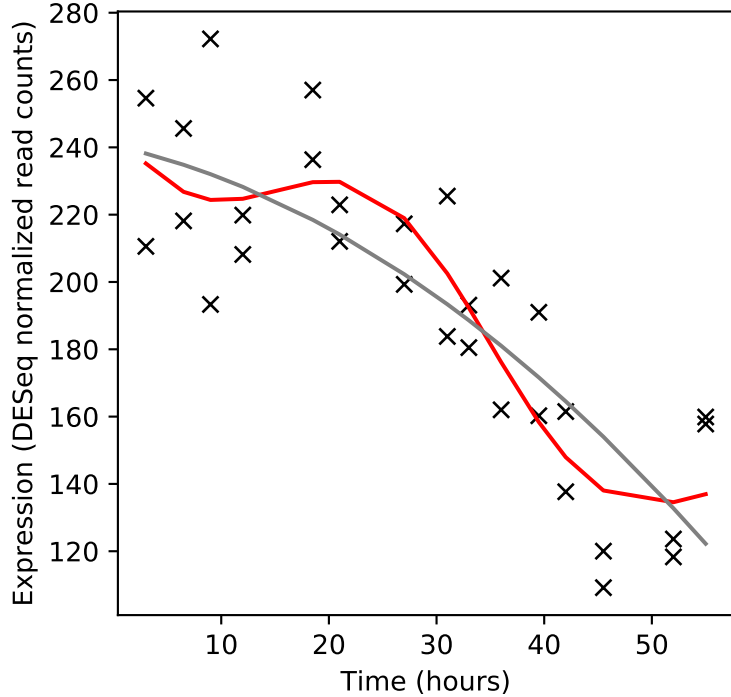
Rv3898c/-



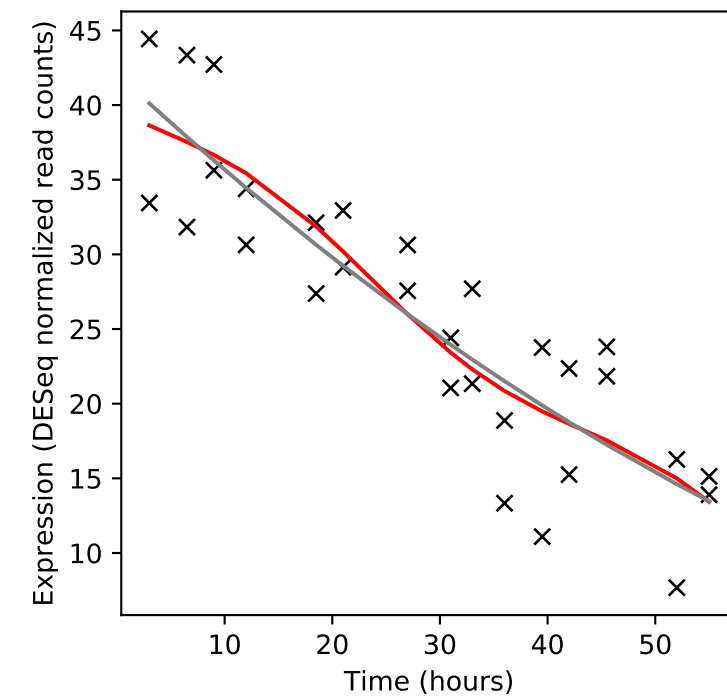
Rv3899c/-



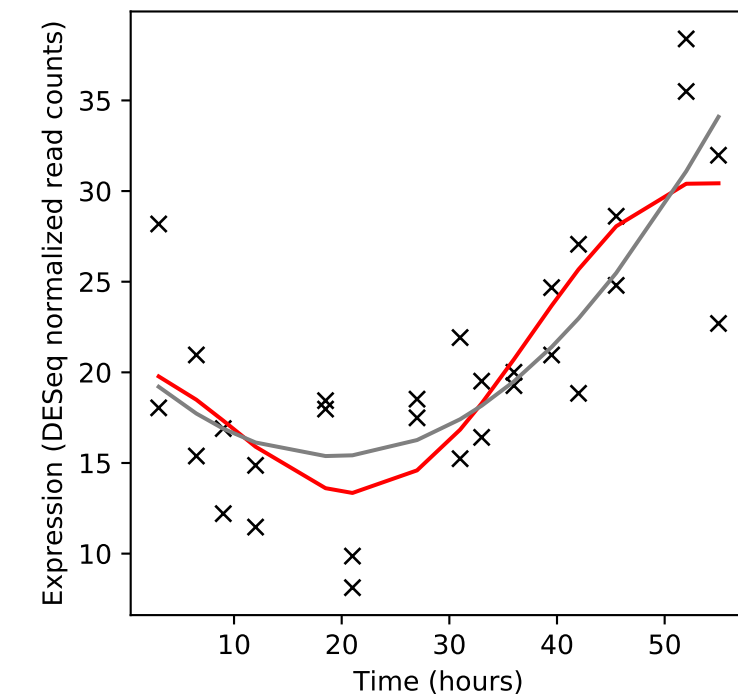
Rv3900c/-



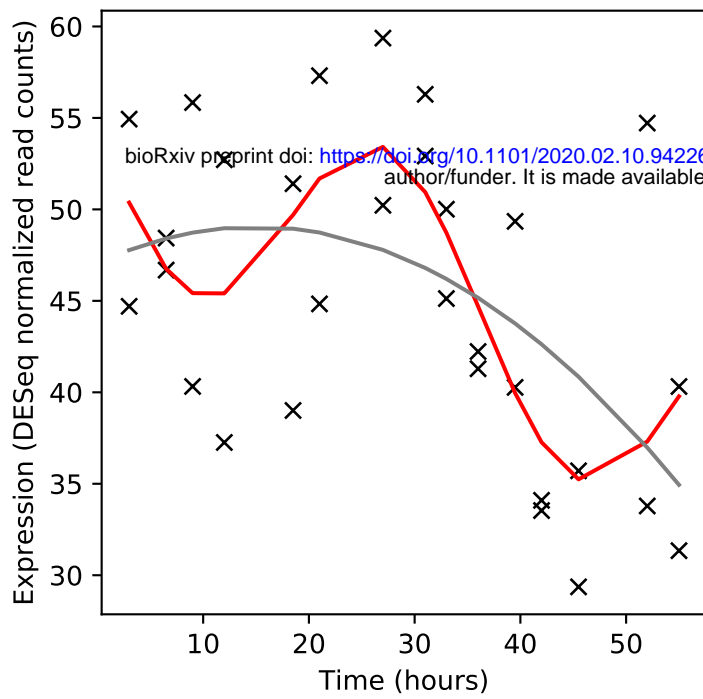
Rv3901c/-



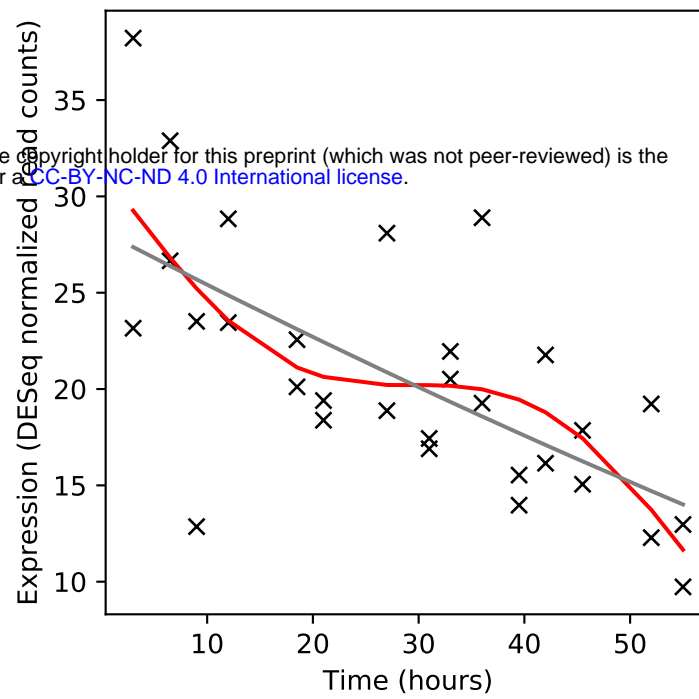
Rv3902c/-



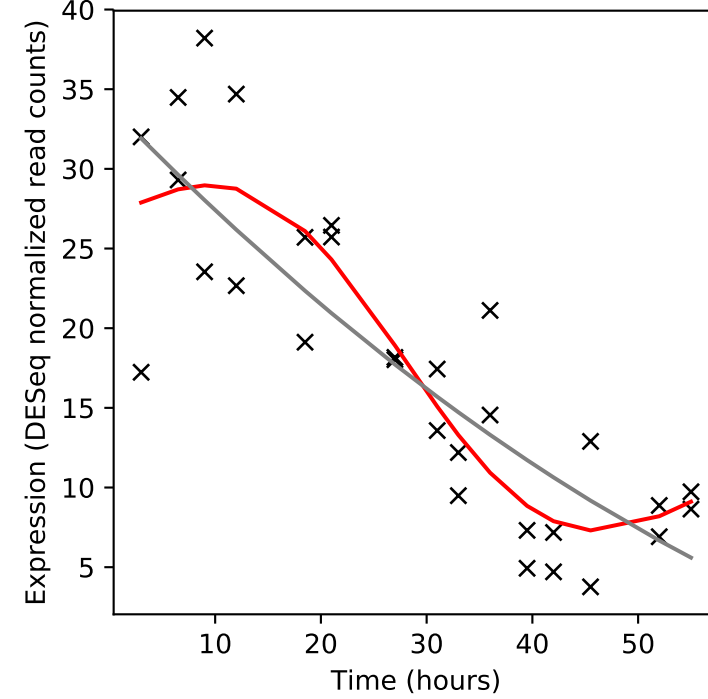
Rv3903c/-



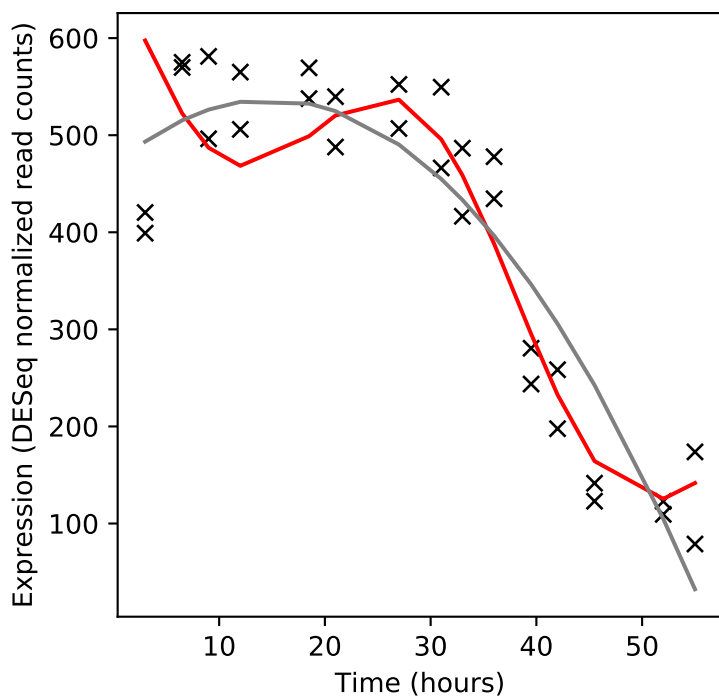
Rv3904c/esxE



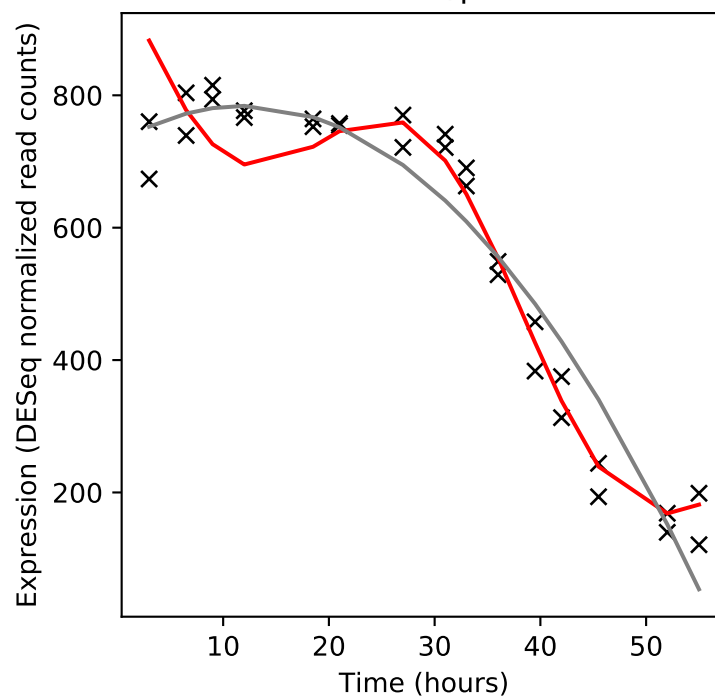
Rv3905c/esxF



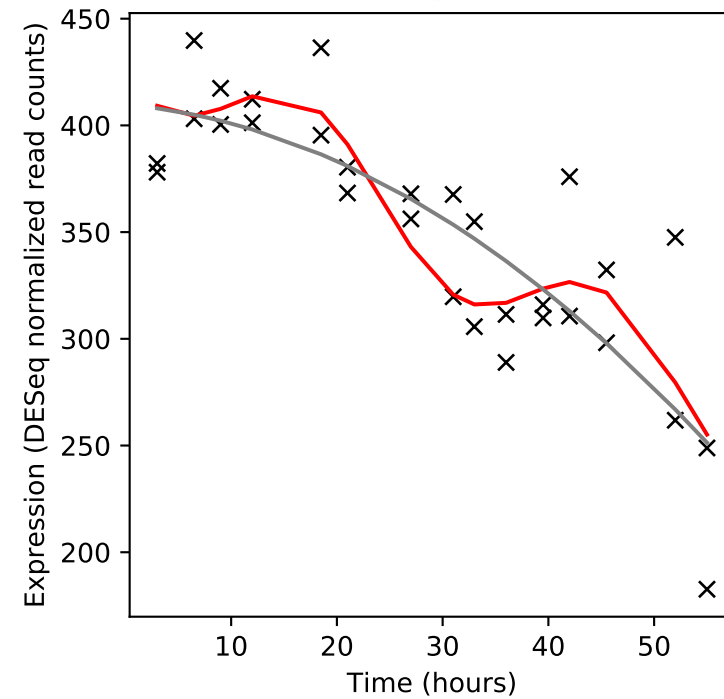
Rv3906c/-



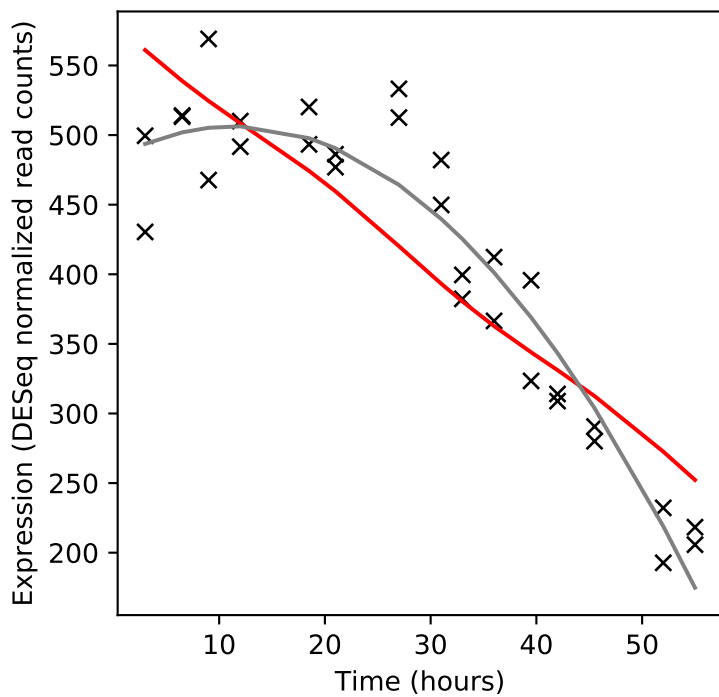
Rv3907c/pcnA



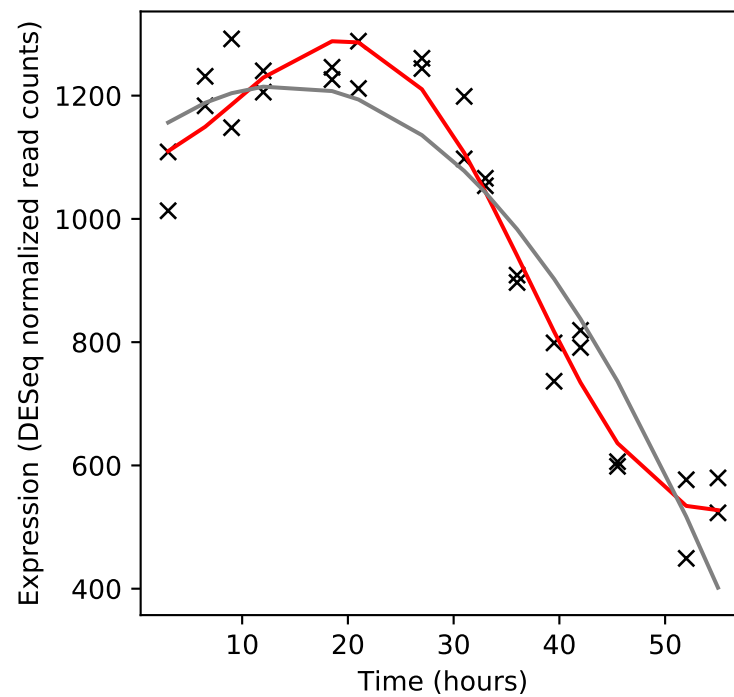
Rv3908/mutT4



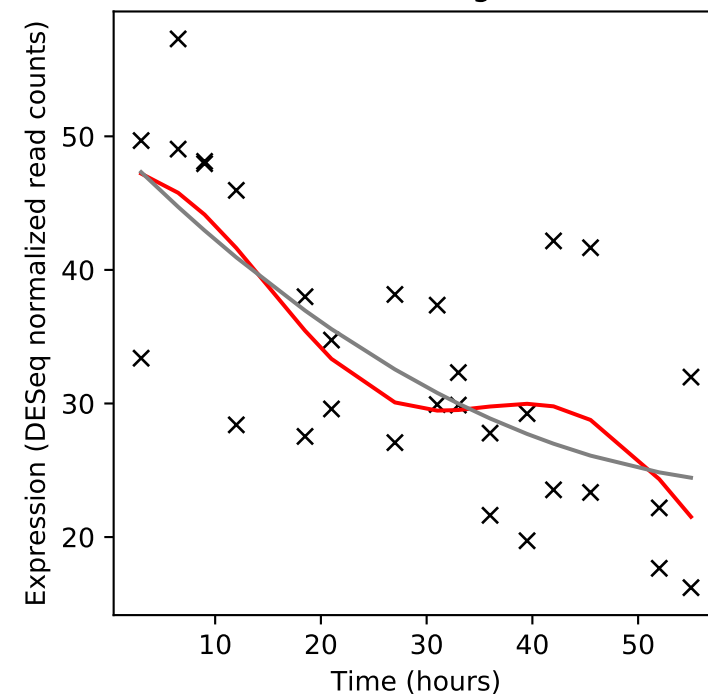
Rv3909/-



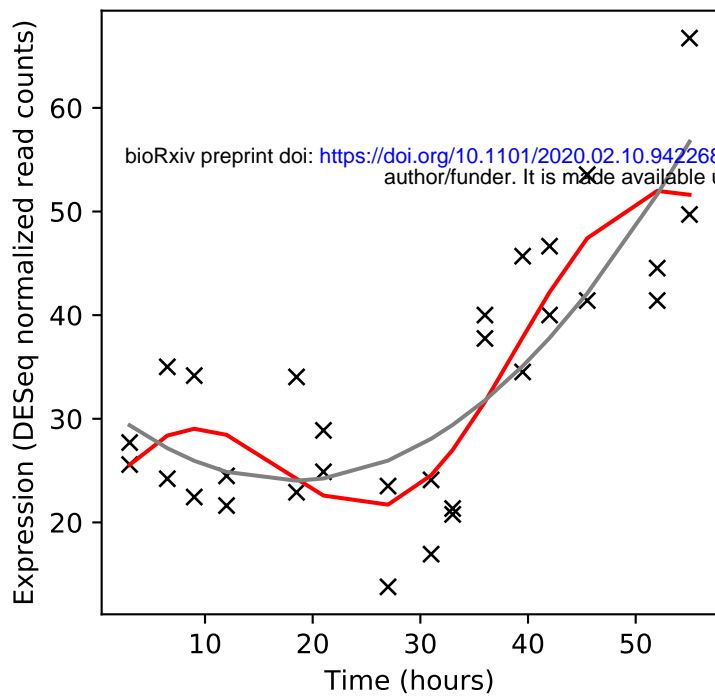
Rv3910/-



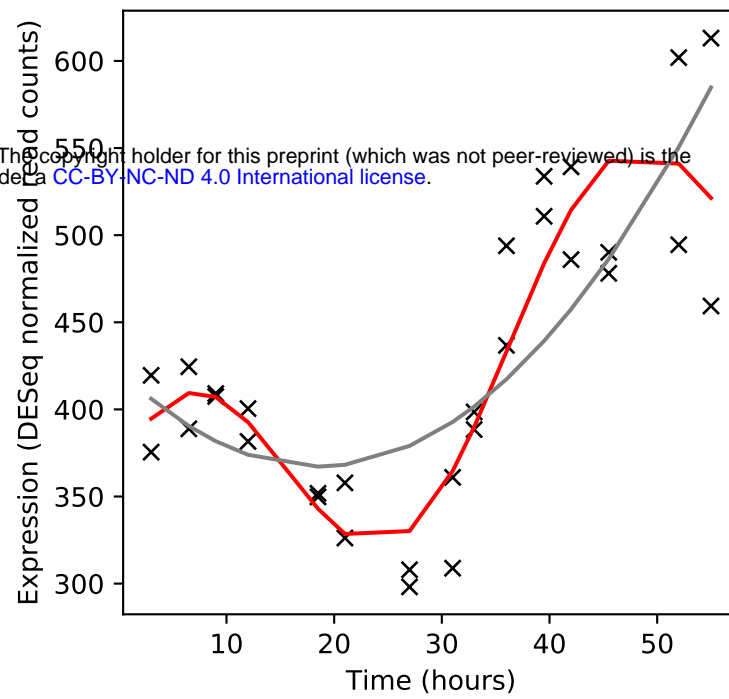
Rv3911/sigM



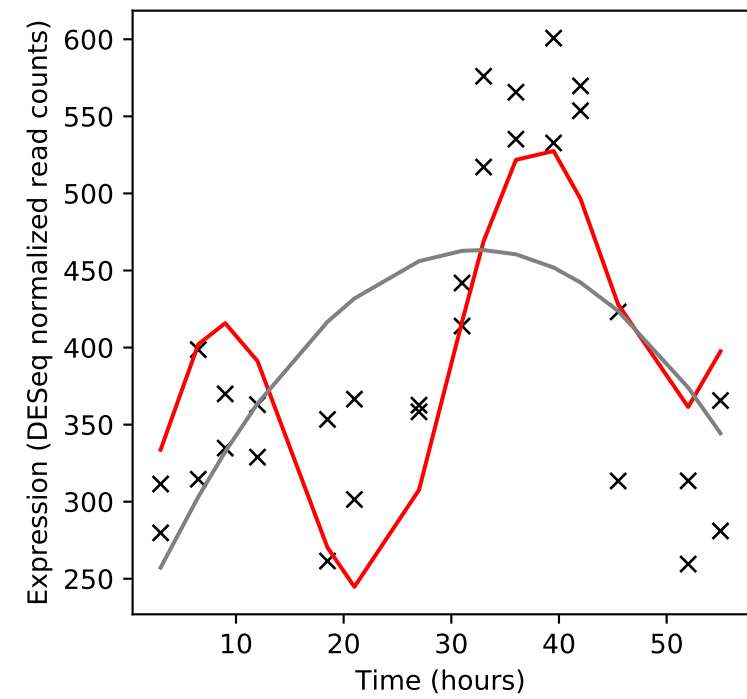
Rv3912/-



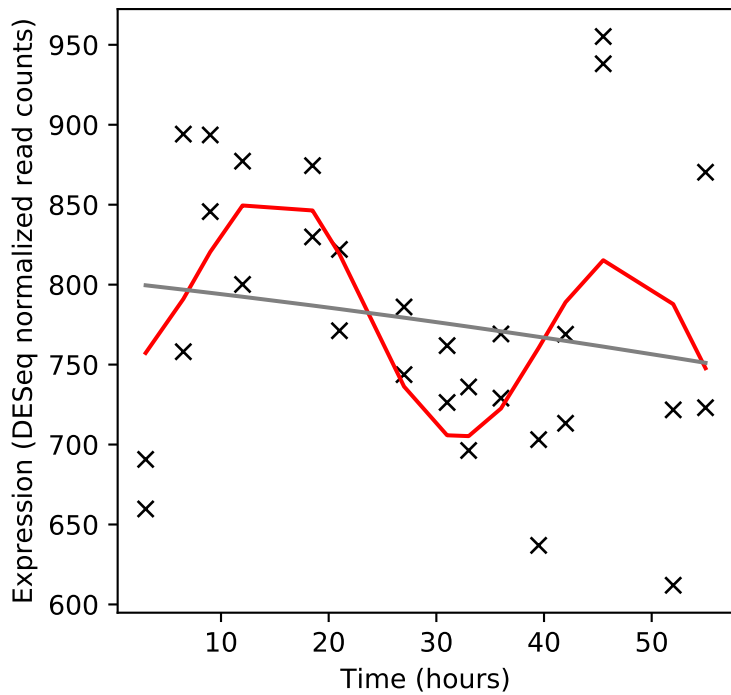
Rv3913/trxB2



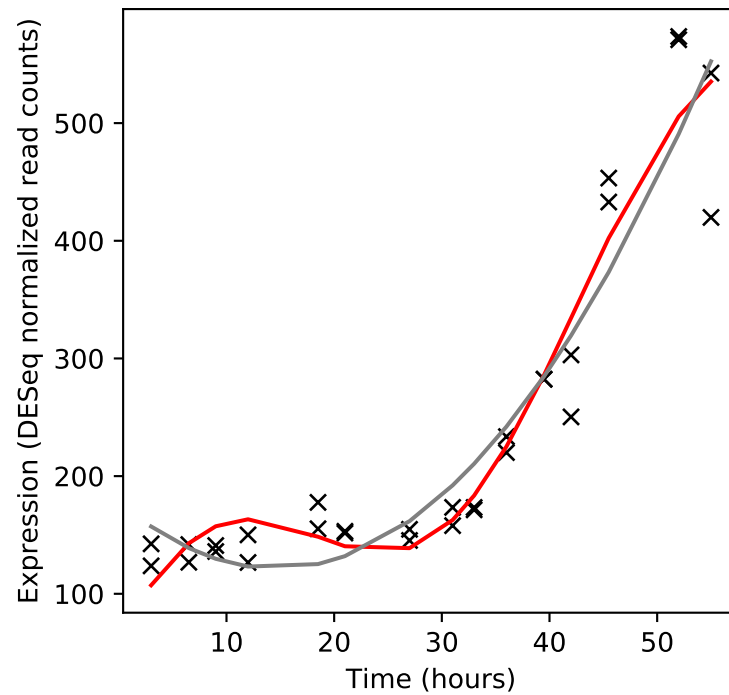
Rv3914/trxC



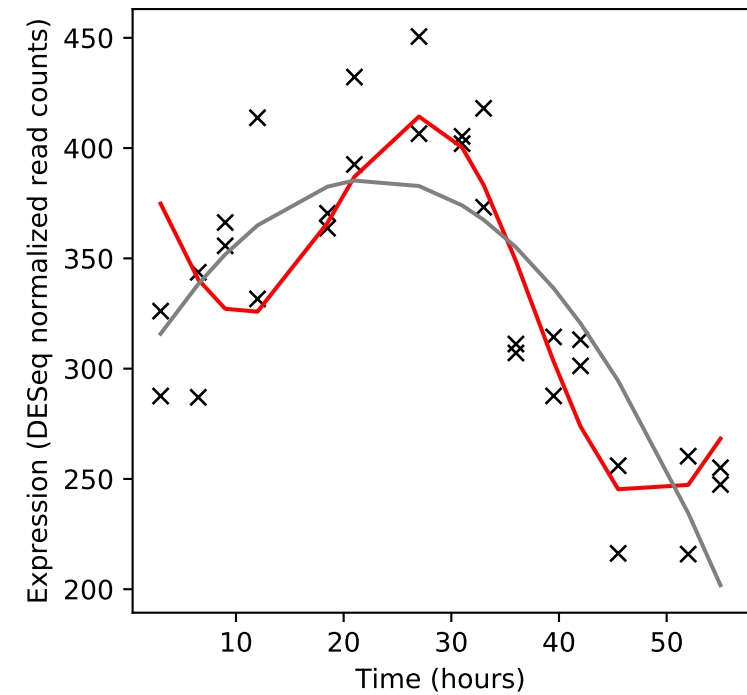
Rv3915/-



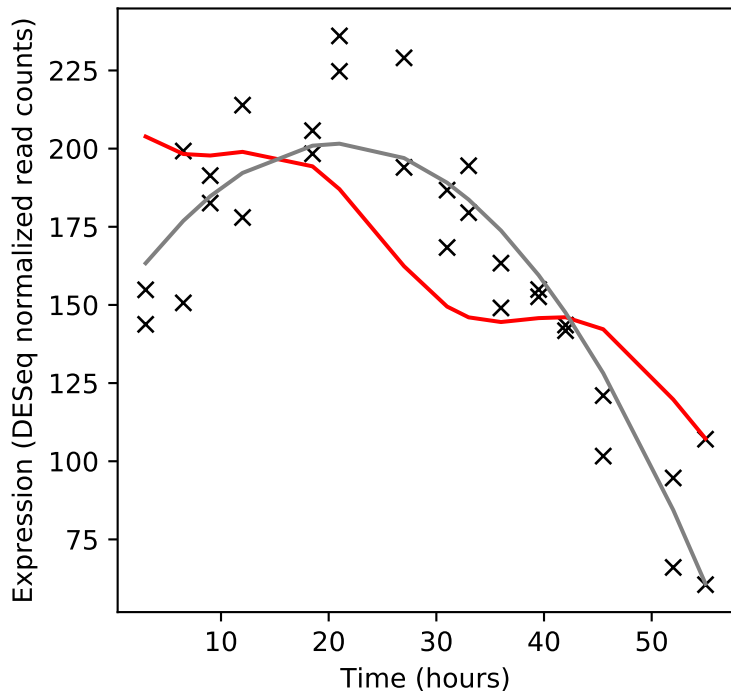
Rv3916c/-



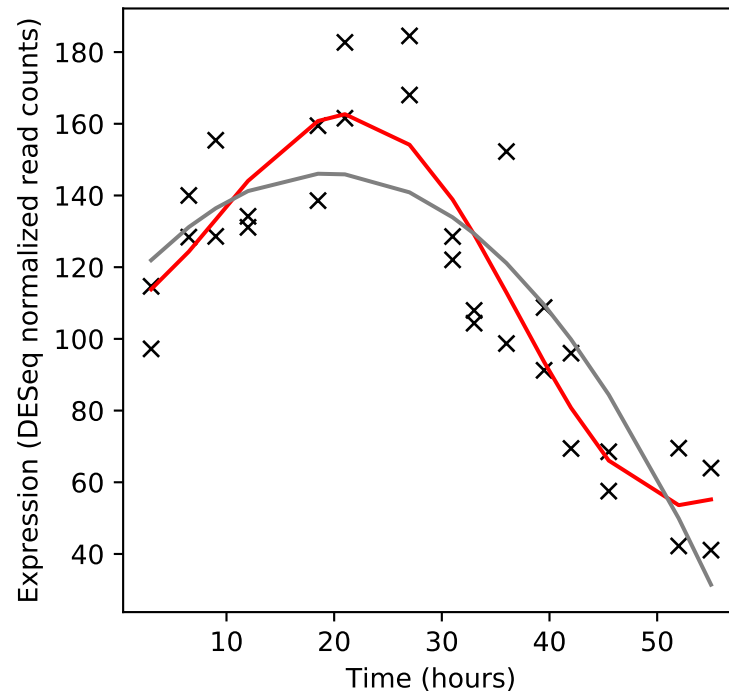
Rv3917c/parB



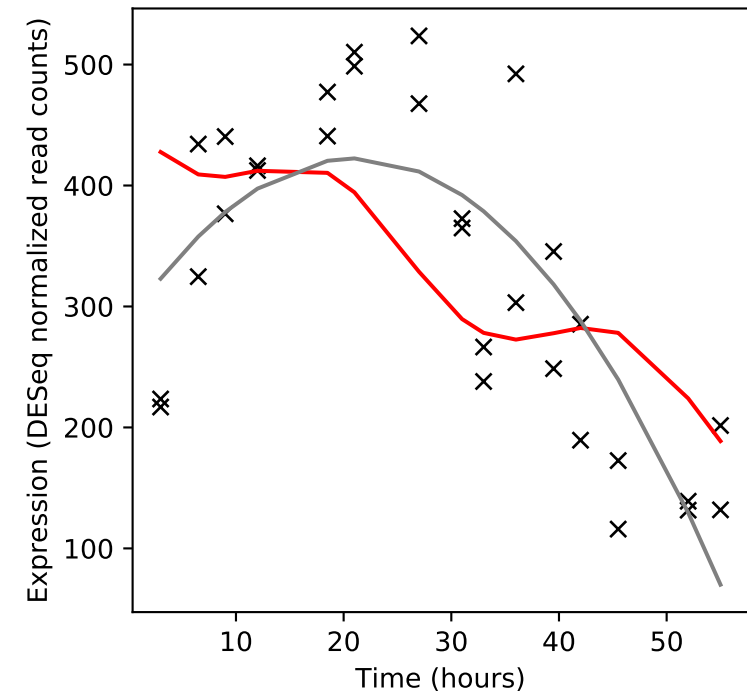
Rv3918c/parA



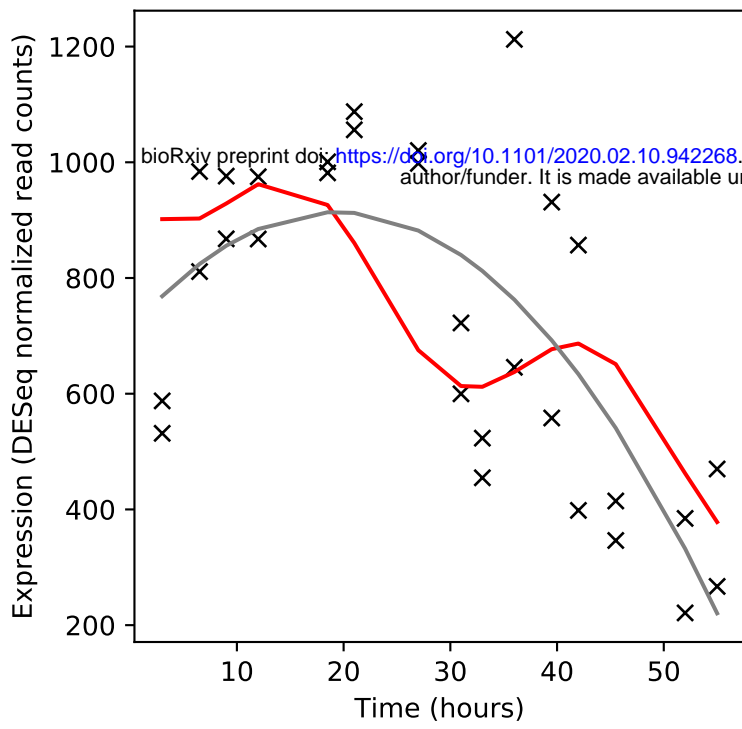
Rv3919c/gid



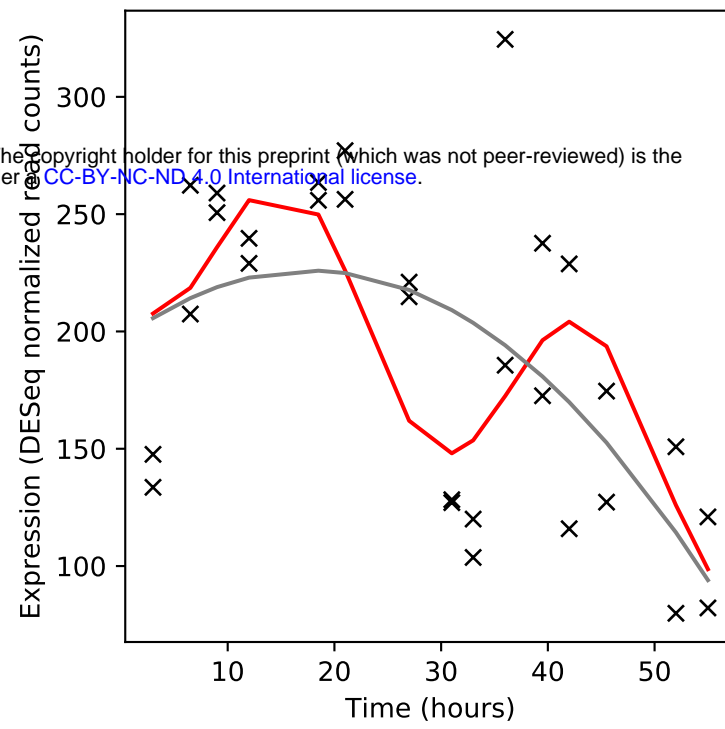
Rv3920c/-



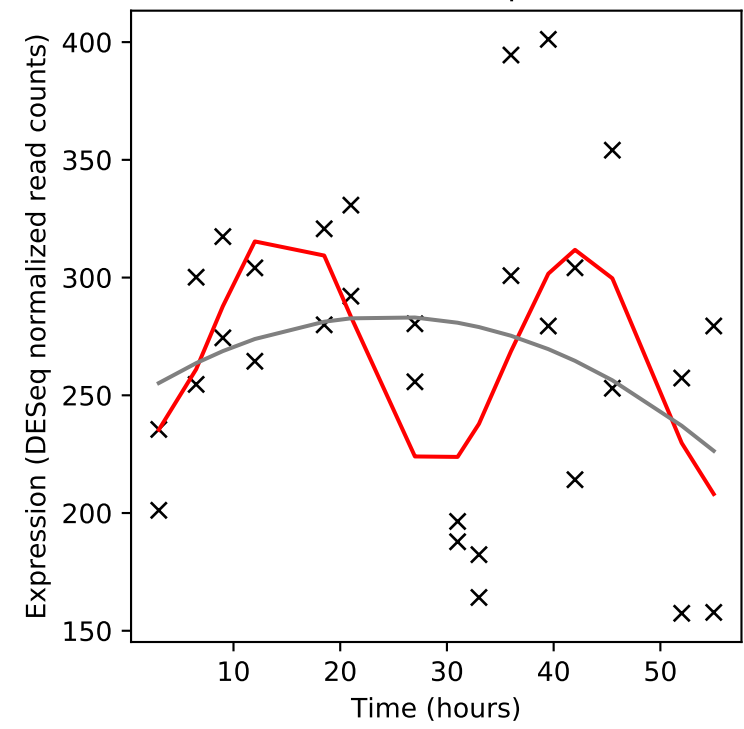
Rv3921c/-



Rv3922c/-



Rv3923c/rnpA



Rv3924c/rpmH

