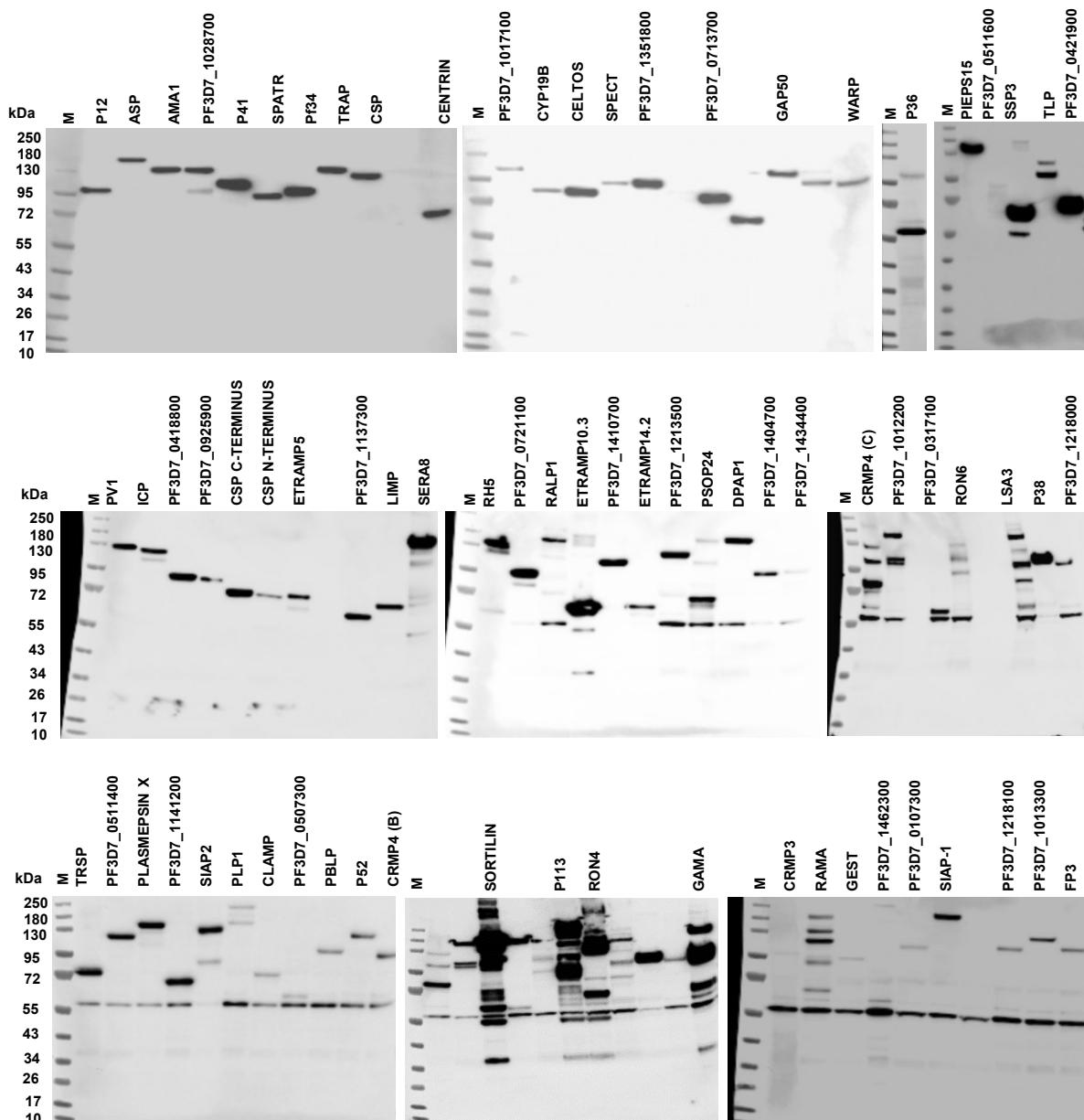
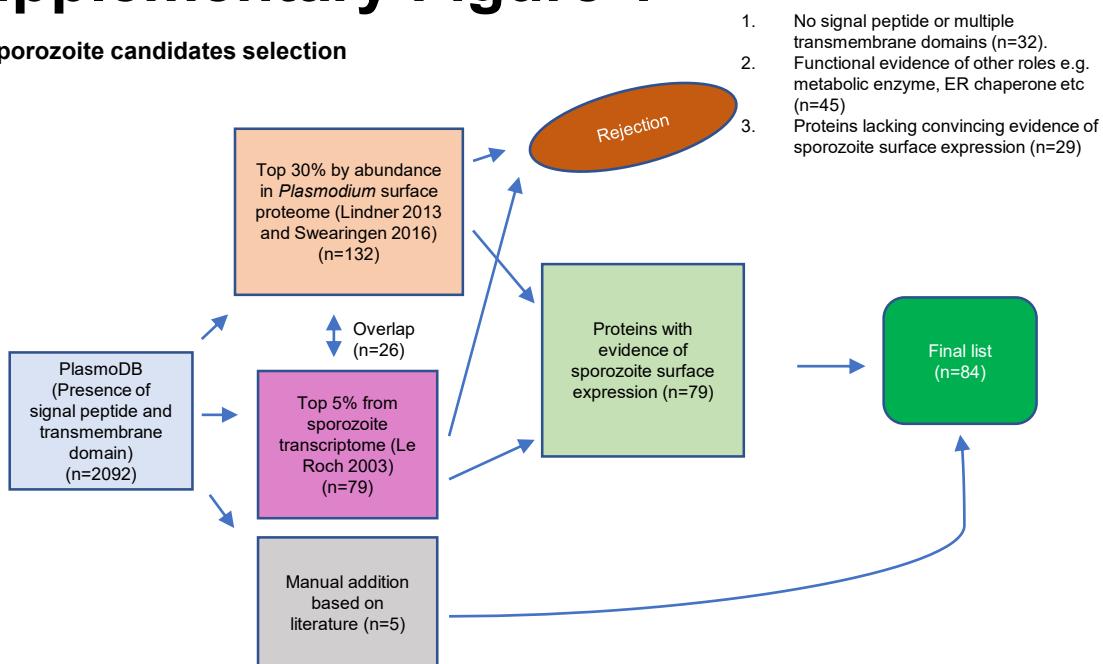


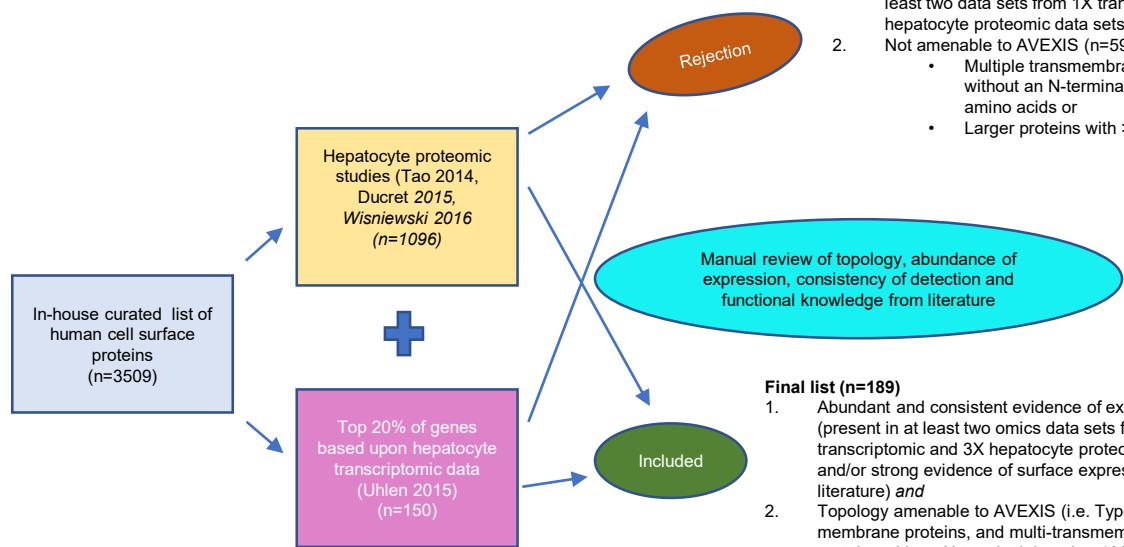
Supplementary Figure 1

Sporozoite candidates selection



Supplementary Figure 2

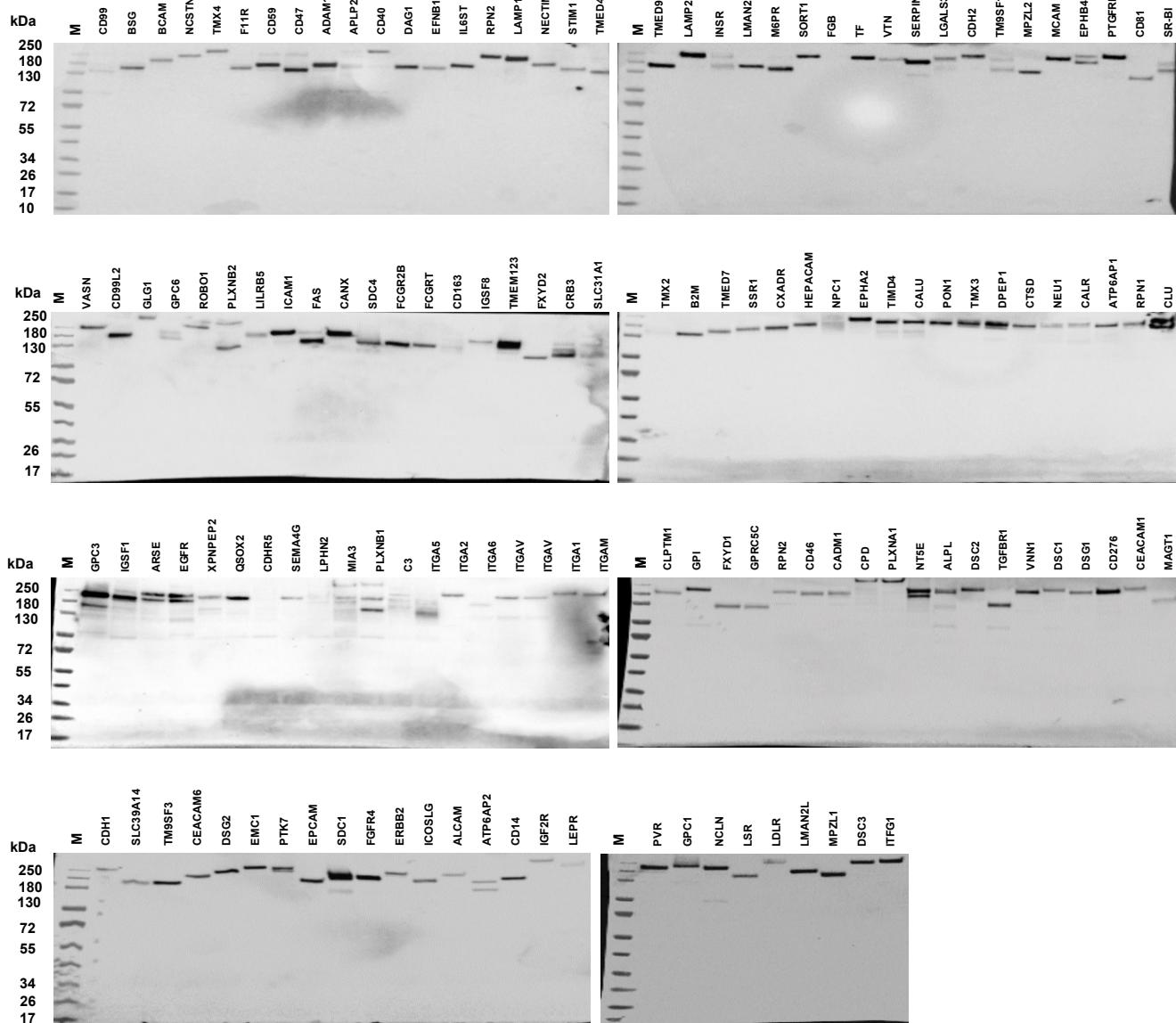
Hepatocyte candidates selection



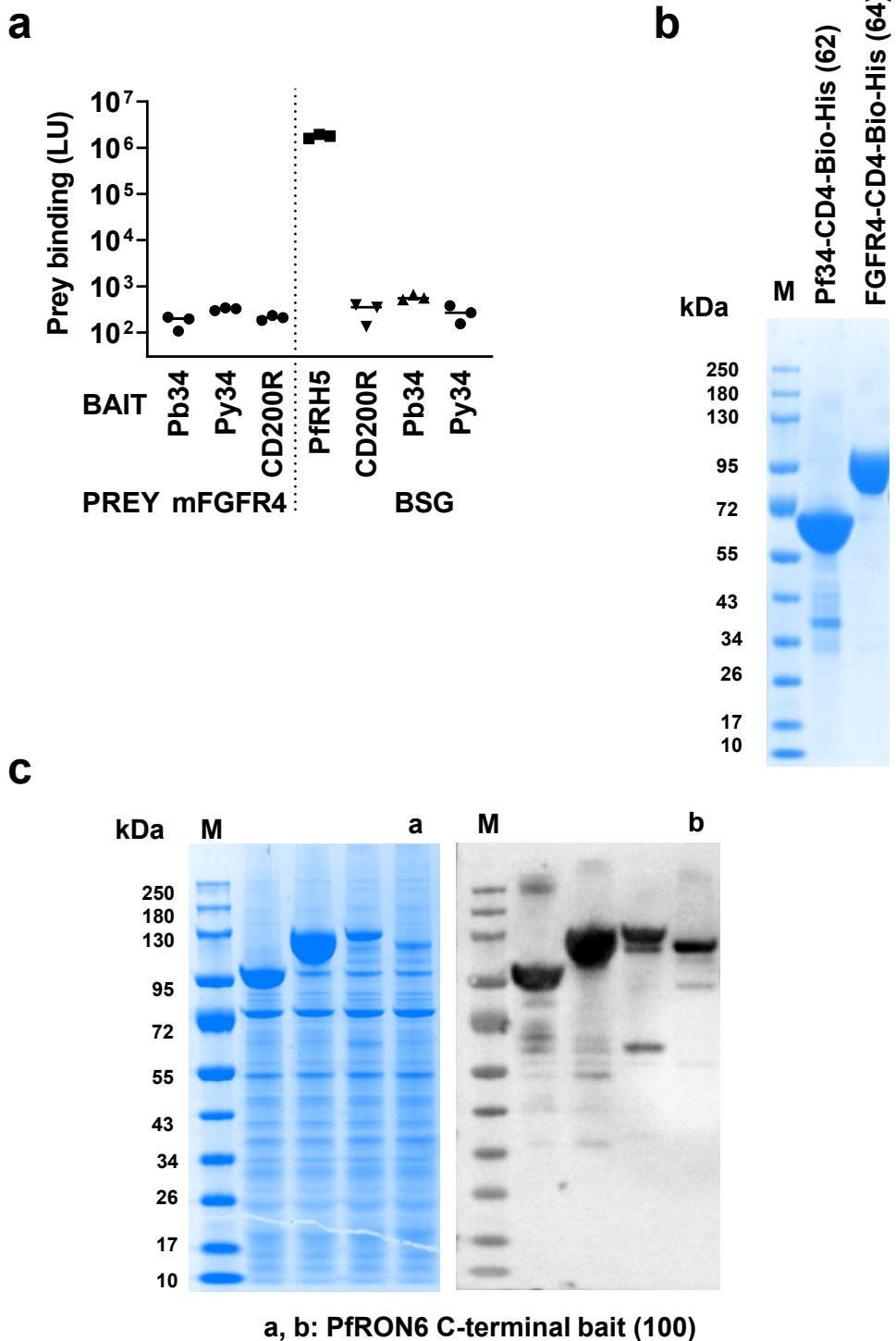
- Weak evidence of expression (not present in at least two data sets from 1X transcriptomic and 3X hepatocyte proteomic data sets) (n=464)
- Not amenable to AVEXIS (n=593)
 - Multiple transmembrane domains without an N-terminal domain >190 amino acids or
 - Larger proteins with >5 kb CDS

Final list (n=189)

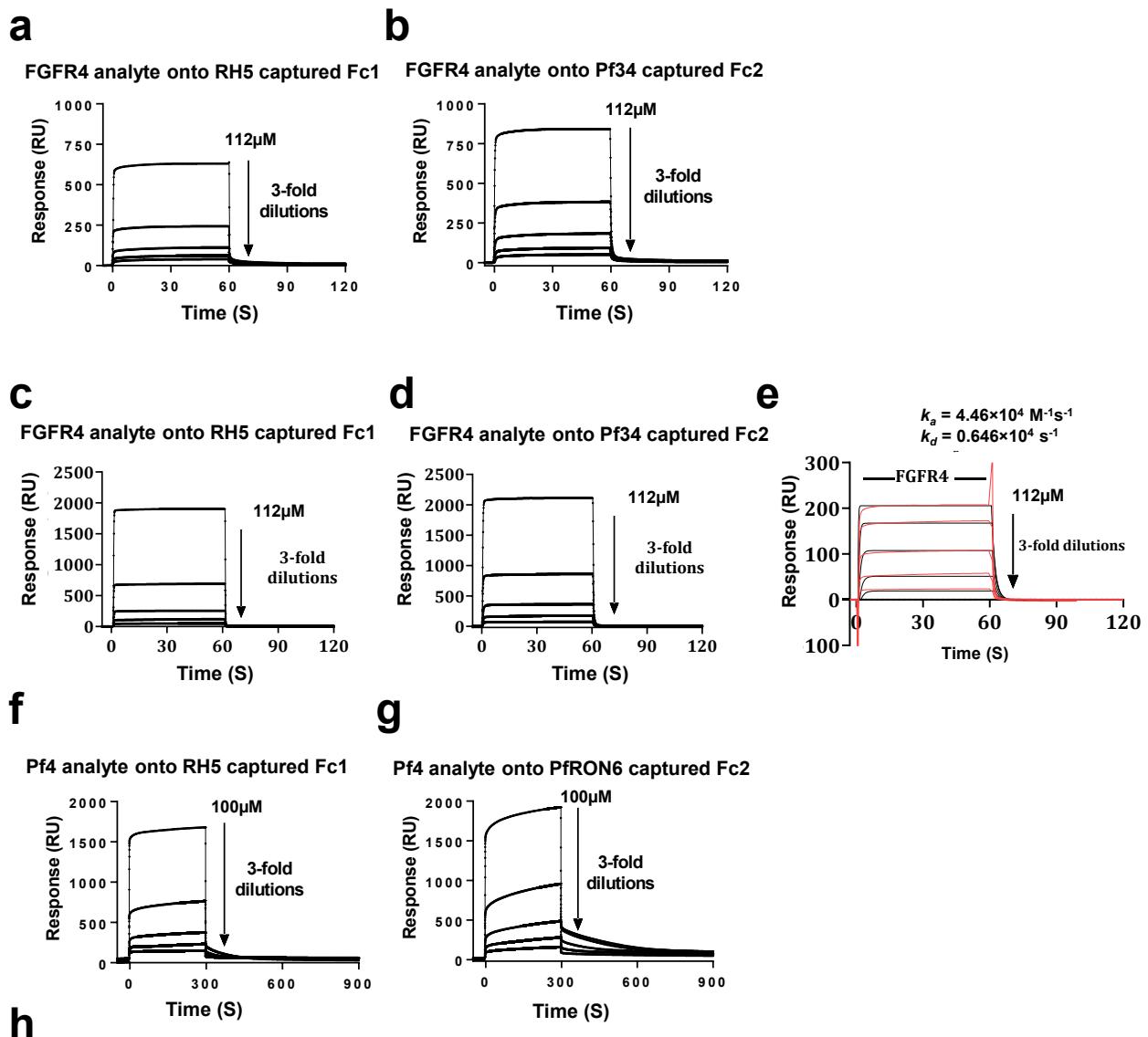
- Abundant and consistent evidence of expression (present in at least two omics data sets from 1X transcriptomic and 3X hepatocyte proteomic data sets and/or strong evidence of surface expression from literature) *and*
- Topology amenable to AVEXIS (i.e. Type I and type II membrane proteins, and multi-transmembrane proteins with an N-terminal domain >190 amino acids *and* ≤ 5 kb CDS)



Supplementary Figure 3



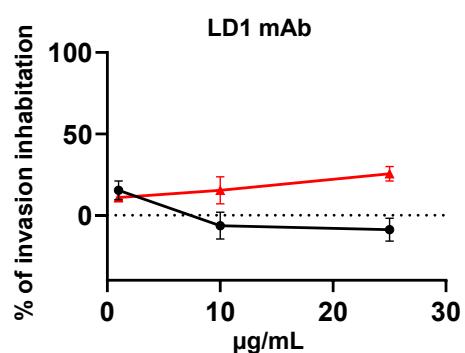
Supplementary Figure 4



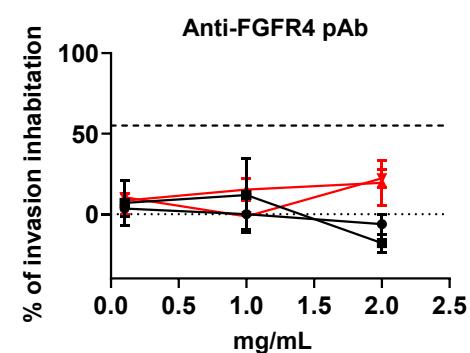
Interaction	Experiment	Ligand	Analyte	K_a ($\text{M}^{-1}\text{s}^{-1}$)	SE of K_a ($\text{M}^{-1}\text{s}^{-1}$)	K_d (s^{-1})	SE of K_d (s^{-1})	K_D (M)	K_D (mg/mL)	Interaction half-life (sec)	R_{max} (RU)	χ^2 (RU^2)
Pf34-FGFR4	1	Pf34	FGFR4	1.6E+04	1.8E+02	6.8E-01	6.7E-03	4.7E-05			288.9	27.5
	2	Pf34	FRGR4	4.4E+04	8.4E+02	6.4E-01	1.1E-02	1.4E-05			232	120
	Median			3.0E+04	5.1E+02	6.6E-01	8.9E-03	3.1E-05	2	1		
Pf34-PfRON6	1	PfRON6 C-terminal fragment	Pf34	5.2E+02	2.2E+00	1.5E-03	5.0E+06	2.9E-06			196	293

Supplementary Figure 5

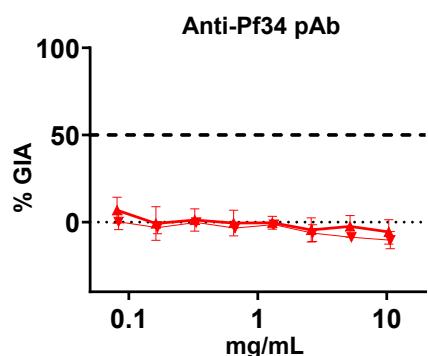
a



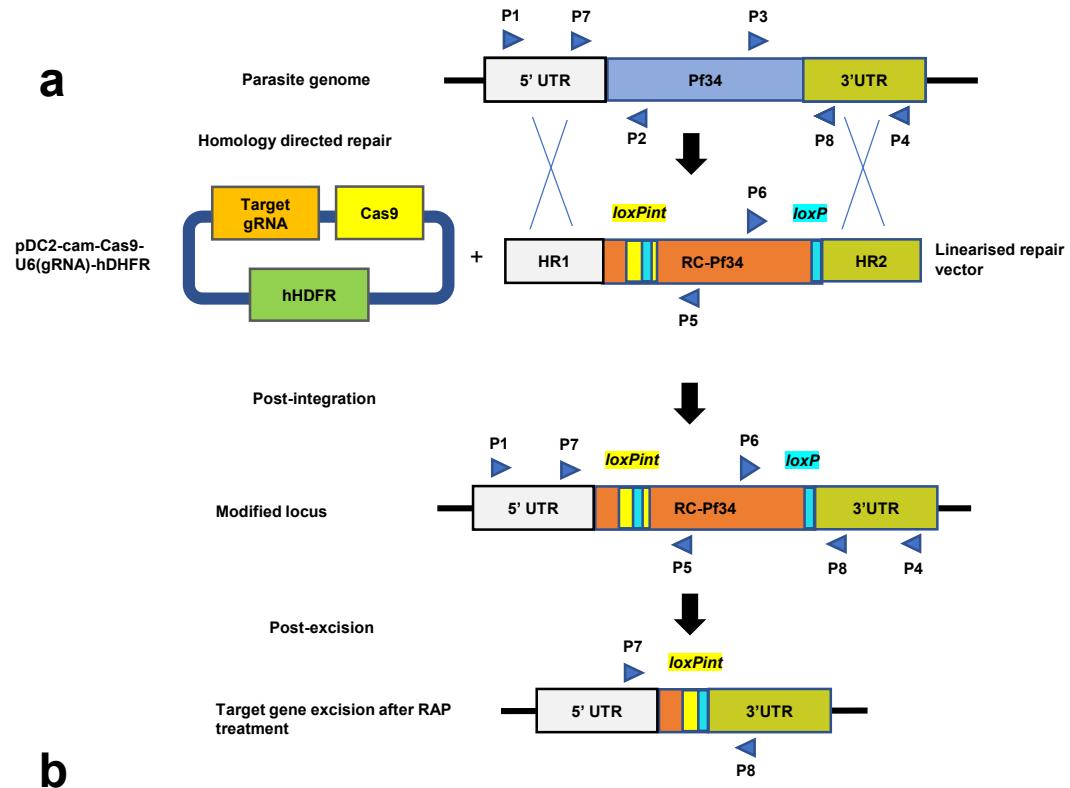
b



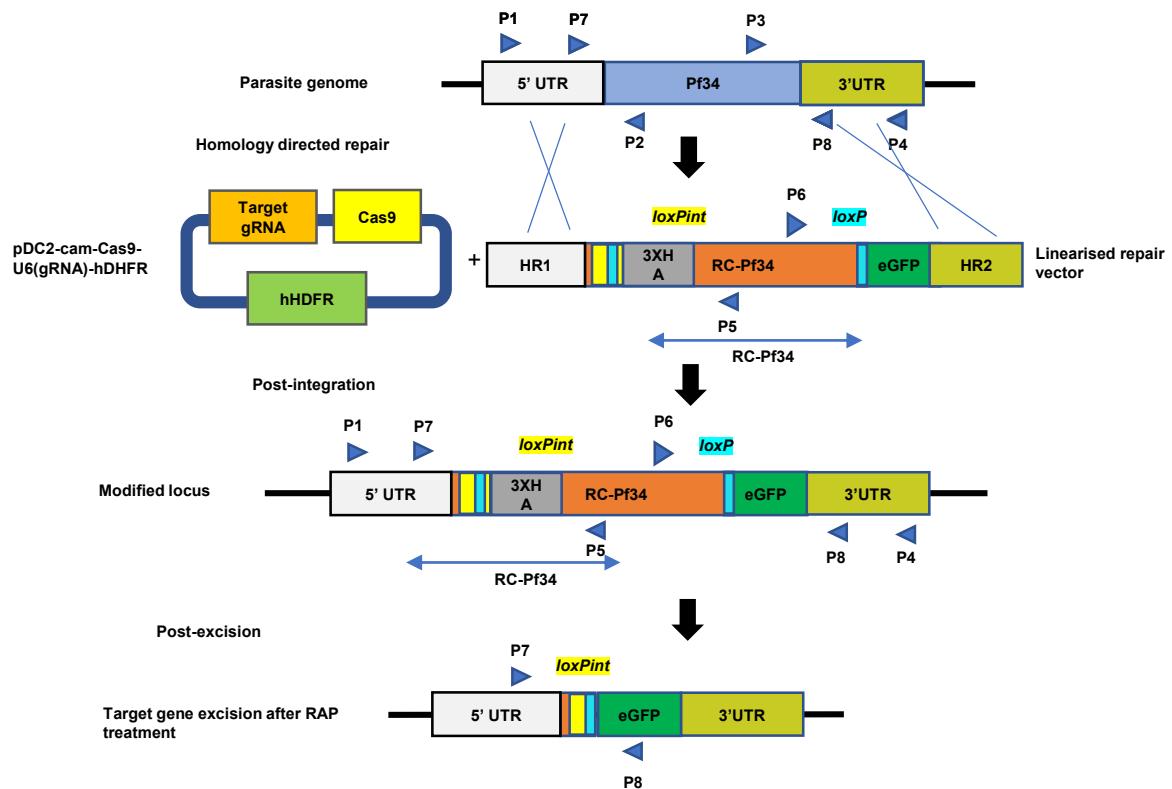
c



Supplementary Figure 6

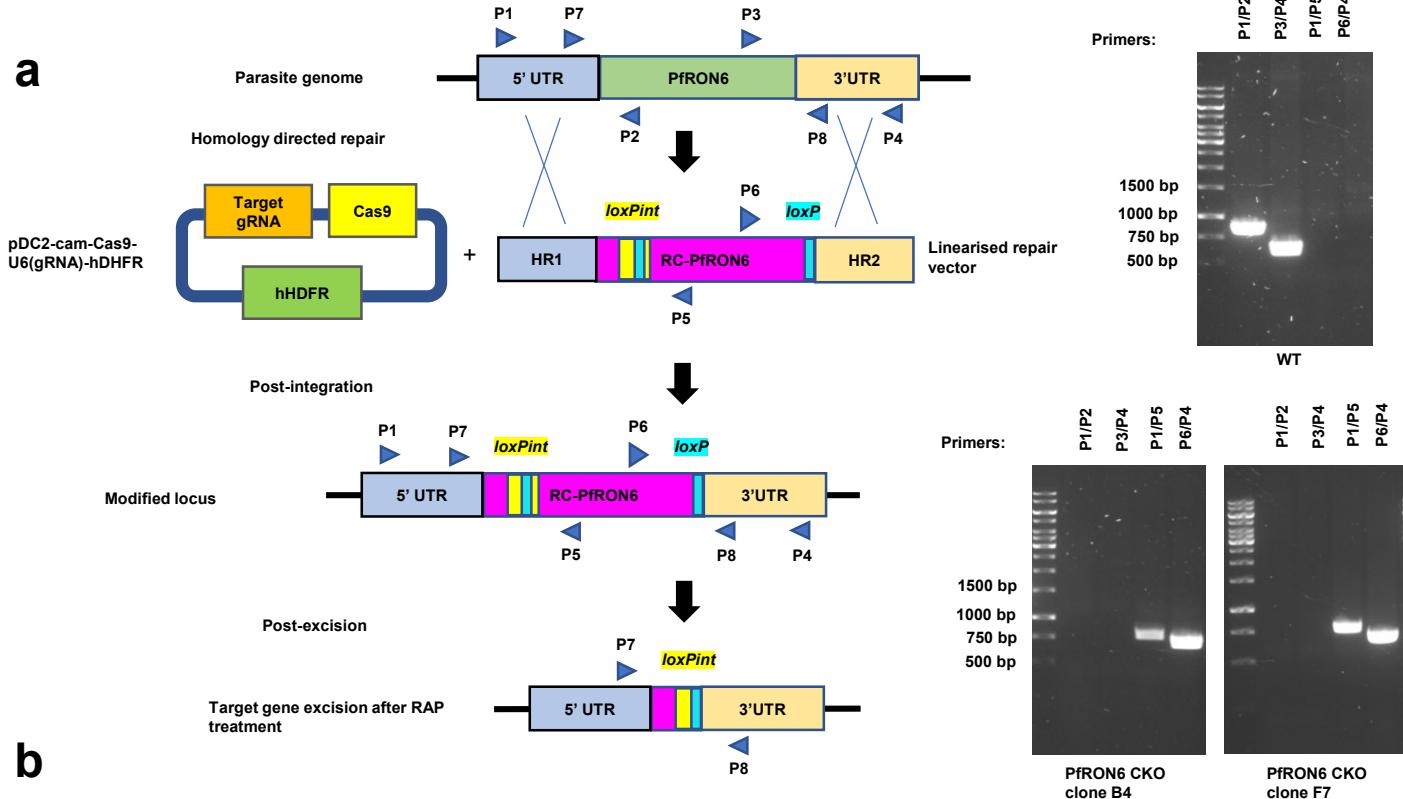


b



Supplementary Figure 7

a



b

