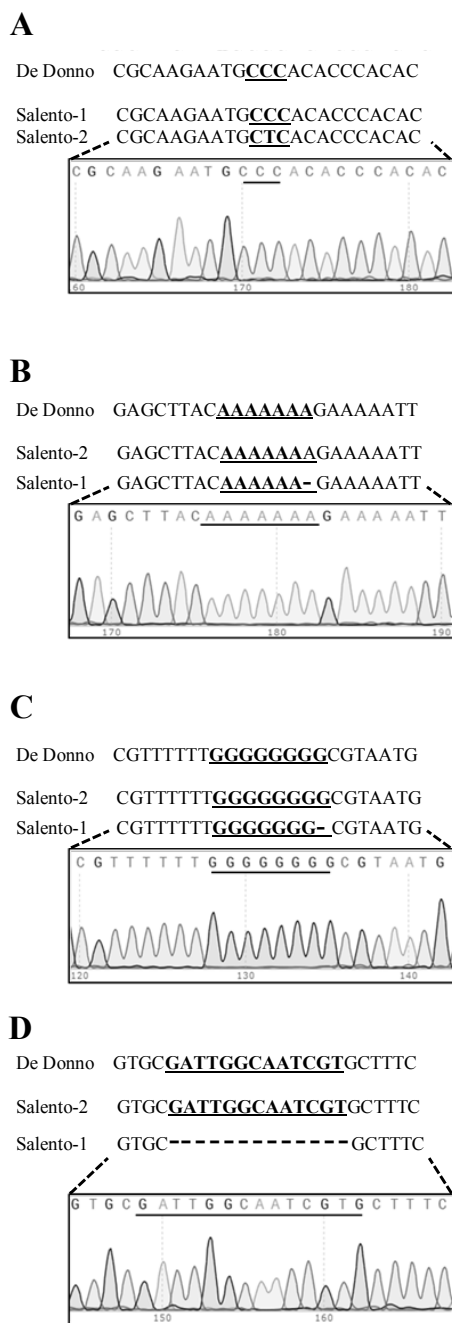


Supplementary material



Supplementary Figure S1. Results of Sanger sequencing for secondary confirmation of a single nucleotide variant (A), single nucleotide insertions/deletions (B and C) and large indels (D) in genomes of *Xylella fastidiosa* isolates Salento-1 and Salento-2.

Supplementary Table S1. PCR primers developed in this study for characterization of *Xylella fastidiosa* isolates.

Primer	Sequence (5'→3')
P1	TCAAATTCGGGCAGATAAGG
P2	TTGCCATAAGTCGCGCTAT
P3	TGCTTGATGTGTTGCTTGTT
P4	TTGGTACGCGCTCTAGAGATA
PAF	TCCCTTTGTATCGGTGGC
PAR	TCCTGATGACCATTGAGCACA
PBF	TCAGAAGCATTACGCGATCA
PBR	TTCAAATGAGGACGGATCCT
PCF	AAATGTTGGCCACACTATGGG
PCR	AAGCGCTGCACTGACAGTTTT
PDF	CATGAGGGCTATAGTGCGTTA
PDR	TGTGCCATCATCACTGCATCA

Supplementary File S1. Details of the regions containing sequence variations from the curated alignment of the genomes of *Xylella fastidiosa* isolates Salento-1, Salento-2 and De Donno.

POSITIONS: 874

REGIONS: 372

REGION EXTENDED BY 5 positions

Region 1 (indel): 1-12 (shown from 1 to 18)

Sal1: -----ATGGAA

Sal2: -----ATGGAA

deDo: ATGACAACATTGATGGAA

Annotation:

Sal1: chromosomal replication initiation protein DnaA (BCV75_00005) (actual pos 1, within 1-1320, plus)

Sal2: chromosomal replication initiation protein DnaA (BC375_00005) (actual pos 1, within 1-1320, plus)

deDo: no gene

Region 2 (indel): 10989 (shown from 10984 to 10995)

Sequence:

Sal1: CCCCC-GAAGTA

Sal2: CCCCCGAAGTA

deDo: CCCCCGAAGTA

Annotation:

Sal1: energy transducer TonB (BCV75_00045) (actual pos 10977, within 10550-11208, plus)

Sal2: energy transducer TonB (BC375_00045) (actual pos 10977, within 10550-11209, plus)
deDo: energy transducer TonB (B9J09_00045) (actual pos 10989, within 10562-11221, plus)

Region 3 (indel): 18457-18463 (shown from 18452 to 18469)
Sal1: TGCTG-----TTATGC
Sal2: TGCTGATTGCTGTTATGC
deDo: TGCTG-----TTATGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 4 (indel): 19652-19681 (shown from 19647 to 19687)
Sal1: GTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGC
TCGTGTC
Sal2: GTGCT-----
GTGCTGTGCTGTGCTGTGCTCGTGTC
deDo: GTGCT-----CGTGTC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 5 (indel): 20678 (shown from 20673 to 20684)

Sequence:
Sal1: TAAAA-GGCGTT
Sal2: TAAAAAGGCGTT
deDo: TAAAAAGGCGTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 6 (indel): 28597 (shown from 28592 to 28603)

Sequence:
Sal1: AAAAA-TCTAGG
Sal2: AAAAAATCTAGG
deDo: AAAAAATCTAGG

Annotation:
Sal1: hypothetical protein (BCV75_00125) (actual pos 28576, within 26478-30115, plus)
Sal2: hypothetical protein (BC375_00130) (actual pos 28575, within 26477-30115, plus)
deDo: hypothetical protein (B9J09_00135) (actual pos 28560, within 26462-30100, plus)

Region 7 (indel): 38814 (shown from 38809 to 38820)

Sequence:
Sal1: TTTTT-GTGATT
Sal2: TTTTTGTGATT
deDo: TTTTTGTGATT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 8 (indel): 48423 (shown from 48418 to 48429)

Sequence:
Sal1: GGGGGGAAGAGG
Sal2: GGGGG-AAGAGG
deDo: GGGGGGAAGAGG

Annotation:
Sal1: DNA helicase II (BCV75_00195) (actual pos 48400, within 46624-48810, minus)
Sal2: DNA helicase II (BC375_00200) (actual pos 48401, within 46625-48810, minus)
deDo: DNA-dependent helicase II (B9J09_00215) (actual pos 48386, within 46610-48796, minus)

Region 9 (indel): 83614 (shown from 83609 to 83620)

Sequence:
Sal1: AAAAA-GTAGTG
Sal2: AAAAAAGTAGTG
deDo: AAAAAAGTAGTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 10 (indel): 101479 (shown from 101474 to 101485)

Sequence:
Sal1: GGGGG-ATTCAT
Sal2: GGGGGGATTCAT
deDo: GGGGGGATTCAT

Annotation:
Sal1: 3-deoxy-D-manno-octulosonic acid transferase (BCV75_00410) (actual pos 101455, within 101137-102446, plus)
Sal2: 3-deoxy-D-manno-octulosonic acid transferase (BC375_00420) (actual pos 101456, within 101138-102448, plus)
deDo: 3-deoxy-D-manno-octulosonic acid transferase (B9J09_00435) (actual pos 101442, within 101088-102434, plus)

Region 11 (indel): 127077 (shown from 127072 to 127083)

Sequence:

Sal1: GCCCC-AAGGAT
Sal2: GCCCCCAAGGAT
deDo: GCCCCCAAGGAT

Annotation:

Sal1: no gene
Sal2: hypothetical protein (BC375_00520) (actual pos 127054, within 126801-127343, plus)
deDo: hypothetical protein (B9J09_00545) (actual pos 127040, within 126787-127329, plus)

Region 12 (subst): 139107 (shown from 139102 to 139113)

Sequence:

Sal1: CCCCCGGGG-AG
Sal2: CCCCCGGGGAG
deDo: CCCCCGGGGAG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 13 (indel): 139111 (shown from 139106 to 139117)

Sequence:

Sal1: CGGGG-AGGGGG
Sal2: CCGGGGAGGGGG
deDo: CCGGGGAGGGGG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 14 (indel): 142601 (shown from 142596 to 142607)

Sequence:

Sal1: TTTTT-GACGGC
Sal2: TTTTTGACGGC
deDo: TTTTTGACGGC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 15 (indel): 151960 (shown from 151955 to 151966)

Sequence:

Sal1: GGGGGCGTACA
Sal2: GGGGG-CGTACA
deDo: GGGGGCGTACA

Annotation:

Sal1: phosphomannomutase (BCV75_00615) (actual pos 151932, within 151824-154187, plus)
Sal2: no gene
deDo: phosphomannomutase/phosphoglucomutase (B9J09_00650) (actual pos 151923, within 151815-154178, plus)

Region 16 (indel): 158634 (shown from 158629 to 158640)

Sequence:

Sal1: CCCCC-ATACAT
Sal2: CCCCCCATAACAT
deDo: CCCCCCATAACAT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 17 (indel): 160433 (shown from 160428 to 160439)

Sequence:

Sal1: TTTTT-ATATGT
Sal2: TTTTTATATGT
deDo: TTTTTATATGT

Annotation:

Sal1: hypothetical protein (BCV75_00640) (actual pos 160404, within 159483-160492, plus)
Sal2: hypothetical protein (BC375_00650) (actual pos 160409, within 159488-160498, plus)
deDo: hypothetical protein (B9J09_00685) (actual pos 160396, within 159475-160485, plus)

Region 18 (indel): 180499 (shown from 180494 to 180505)

Sequence:

Sal1: CCCCC-TTCGGC
Sal2: CCCCCCTTCGGC
deDo: CCCCCCTTCGGC

Annotation:

Sal1: 3-oxoacyl-ACP reductase (BCV75_00715) (actual pos 180469, within 179897-180636, minus)
Sal2: 3-oxoacyl-ACP reductase (BC375_00725) (actual pos 180475, within 179903-180643, minus)
deDo: 3-ketoacyl-ACP reductase (B9J09_00765) (actual pos 180462, within 179890-180630, minus)

Region 19 (indel): 187885 (shown from 187880 to 187891)

Sequence:

Sal1: CTTTT-AGCAAC
Sal2: CTTTTTAGCAAC

deDo: CTTTTTAGCAAC

Annotation:

Sal1: hypothetical protein (BCV75_00745) (actual pos 187854, within 187780-188231, minus)

Sal2: hypothetical protein (BC375_00755) (actual pos 187861, within 187787-188239, minus)

deDo: hypothetical protein (B9J09_00795) (actual pos 187848, within 187769-188230, plus)

Region 20 (indel): 233094 (shown from 233089 to 233100)

Sequence:

Sal1: GGGGG-TAACGA

Sal2: GGGGG-TAACGA

deDo: GGGGGGTAACGA

Annotation:

Sal1: protein-export membrane protein SecF (BCV75_00920) (actual pos 233062, within 232797-233761, plus)

Sal2: protein-export membrane protein SecF (BC375_00935) (actual pos 233070, within 232805-233769, plus)

deDo: protein translocase subunit SecF (B9J09_00990) (actual pos 233057, within 232792-233757, plus)

Region 21 (indel): 247553 (shown from 247548 to 247559)

Sequence:

Sal1: GGGGGGAACCTT

Sal2: GGGGG-AACCTT

deDo: GGGGGGAACCTT

Annotation:

Sal1: tRNA pseudouridine(55) synthase TruB (BCV75_00990) (actual pos 247520, within 247124-248026, plus)

Sal2: tRNA pseudouridine(55) synthase TruB (BC375_01005) (actual pos 247528, within 247132-248033, plus)

deDo: tRNA pseudouridine(55) synthase (B9J09_01060) (actual pos 247516, within 247120-248022, plus)

Region 22 (indel): 260365 (shown from 260360 to 260371)

Sequence:

Sal1: TTTTT-ATTTAG

Sal2: TTTTTTATTTAG

deDo: TTTTTTATTTAG

Annotation:

Sal1: hypothetical protein (BCV75_01040) (actual pos 260332, within 259501-260414, plus)

Sal2: hypothetical protein (BC375_01060) (actual pos 260339, within 259508-260422, plus)

deDo: EamA family transporter (B9J09_01120) (actual pos 260328, within 259497-260411, plus)

Region 23 (indel): 263963 (shown from 263958 to 263969)

Sequence:

Sal1: GGGGG-CGTAAT

Sal2: GGGGGGCGTAAT

deDo: GGGGGGCGTAAT

Annotation:

Sal1: EtfB protein (BCV75_01060) (actual pos 263929, within 263900-264589, minus)

Sal2: EtfB protein (BC375_01075) (actual pos 263937, within 263849-264598, minus)

deDo: EtfB protein (B9J09_01140) (actual pos 263926, within 263838-264587, minus)

Region 24 (indel): 276633 (shown from 276628 to 276639)

Sequence:

Sal1: GGGGG-CATCGC

Sal2: GGGGG-CATCGC

deDo: GGGGGGCATCGC

Annotation:

Sal1: serine protease (BCV75_01115) (actual pos 276598, within 275670-278686, plus)

Sal2: serine protease (BC375_01130) (actual pos 276607, within 275679-278696, plus)

deDo: autotransporter domain-containing protein (B9J09_01200) (actual pos 276596, within 275668-278686, plus)

Region 25 (indel): 277428 (shown from 277423 to 277434)

Sequence:

Sal1: GGGGG-AACTCC

Sal2: GGGGGGAACTCC

deDo: GGGGGGAACTCC

Annotation:

Sal1: serine protease (BCV75_01115) (actual pos 277392, within 275670-278686, plus)

Sal2: serine protease (BC375_01130) (actual pos 277401, within 275679-278696, plus)

deDo: autotransporter domain-containing protein (B9J09_01200) (actual pos 277391, within 275668-278686, plus)

Region 26 (indel): 284559 (shown from 284554 to 284565)

Sequence:

Sal1: GGGGG-CATCGC

Sal2: GGGGGGCATCGC

deDo: GGGGGGCATCGC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 27 (indel): 291922 (shown from 291917 to 291928)

Sequence:
Sal1: GGGGG-ACAGAA
Sal2: GGGGGGACAGAA
deDo: GGGGGGACAGAA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 28 (indel): 298859 (shown from 298854 to 298865)

Sequence:
Sal1: TTTTT-ATGTGG
Sal2: TTTTTTATGTGG
deDo: TTTTTTATGTGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 29 (indel): 302962 (shown from 302957 to 302968)

Sequence:
Sal1: AAAAA-TATGTA
Sal2: AAAAAATATGTA
deDo: AAAAAATATGTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 30 (indel): 303107 (shown from 303102 to 303113)

Sequence:
Sal1: GGGGGGACGTAT
Sal2: GGGGG-ACGTAT
deDo: GGGGGGACGTAT

Annotation:
Sal1: AbrB family transcriptional regulator (BCV75_01205) (actual pos 303066, within 302960-303178, plus)
Sal2: no gene
deDo: AbrB family transcriptional regulator (B9J09_01295) (actual pos 303070, within 302964-303182, plus)

Region 31 (indel): 321593 (shown from 321588 to 321599)

Sequence:
Sal1: GGGGGGATTGTG
Sal2: GGGGG-ATTGTG
deDo: GGGGGGATTGTG

Annotation:
Sal1: NADH oxidoreductase (quinone) subunit F (BCV75_01330) (actual pos 321552, within 320557-321891, plus)
Sal2: NADH oxidoreductase (quinone) subunit F (BC375_01340) (actual pos 321565, within 320570-321903, plus)
deDo: NADH oxidoreductase (quinone) subunit F (B9J09_01405) (actual pos 321556, within 320561-321895, plus)

Region 32 (indel): 343677 (shown from 343672 to 343683)

Sequence:
Sal1: TTTTT-GAGAAA
Sal2: TTTTTTGAGAAA
deDo: TTTTTTGAGAAA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 33 (indel): 344478 (shown from 344473 to 344484)

Sequence:
Sal1: TTTTT-AAAATG
Sal2: TTTTTTAAAATG
deDo: TTTTTTAAAATG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 34 (indel): 359912 (shown from 359907 to 359918)

Sequence:
Sal1: CCCCCCAGCAGT
Sal2: CCCCC-AGCAGT
deDo: CCCCCCAGCAGT

Annotation:
Sal1: ATP-dependent DNA helicase RecG (BCV75_01485) (actual pos 359869, within 358325-360481, plus)
Sal2: ATP-dependent DNA helicase RecG (BC375_01495) (actual pos 359883, within 358339-360494, plus)
deDo: DNA helicase RecG (B9J09_01570) (actual pos 359875, within 358331-360487, plus)

(actual pos 424098, within 423558-424355, minus)
deDo: ABC transporter ATP-binding protein (B9J09_01845)
(actual pos 424120, within 423580-424377, minus)

Region 43 (indel): 425261 (shown from 425256 to 425267)

Sequence:

Sal1: CCCCC-AAGGAC
Sal2: CCCCC-AAGGAC
deDo: CCCCCAAGGAC

Annotation:

Sal1: exodeoxyribonuclease V subunit gamma
(BCV75_01760) (actual pos 425180, within 424580-427944,
plus)
Sal2: exodeoxyribonuclease V subunit gamma
(BC375_01770) (actual pos 425198, within 424598-427962,
plus)
deDo: exodeoxyribonuclease V subunit gamma
(B9J09_01850) (actual pos 425220, within 424620-427985,
plus)

Region 44 (indel): 430818 (shown from 430813 to 430824)

Sequence:

Sal1: CCCCCGCACGG
Sal2: CCCCC-GCACGG
deDo: CCCCCGCACGG

Annotation:

Sal1: exodeoxyribonuclease V subunit beta (BCV75_01765)
(actual pos 430736, within 427941-431669, plus)
Sal2: exodeoxyribonuclease V subunit beta (BC375_01775)
(actual pos 430754, within 427959-431686, plus)
deDo: exodeoxyribonuclease V subunit beta (B9J09_01855)
(actual pos 430777, within 427982-431710, plus)

Region 45 (indel): 432505 (shown from 432500 to 432511)

Sequence:

Sal1: GGGGGCCTGGG
Sal2: GGGGG-CCTGGG
deDo: GGGGGCCTGGG

Annotation:

Sal1: exodeoxyribonuclease V subunit alpha
(BCV75_01775) (actual pos 432423, within 431899-433818,
plus)
Sal2: exodeoxyribonuclease V subunit alpha
(BC375_01785) (actual pos 432440, within 431916-433834,
plus)
deDo: exodeoxyribonuclease V subunit alpha
(B9J09_01865) (actual pos 432464, within 431940-433859,
plus)

Region 46 (indel): 434407-434412 (shown from 434402 to

434418)

Sal1: GGACA-----GTTGTG
Sal2: GGACA-----GTTGTG
deDo: GGACAGGGACAGTTGTG

Annotation:

Sal1: hypothetical protein (BCV75_01780) (actual pos
434325, within 434120-434356, plus)
Sal2: no gene
deDo: hypothetical protein (B9J09_01870) (actual pos
434366, within 434161-434403, plus)

Region 47 (indel): 451777 (shown from 451772 to 451783)

Sequence:

Sal1: TTTTT-ATATTG
Sal2: TTTTTTATATTG
deDo: TTTTTTATATTG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: hypothetical protein (B9J09_01950) (actual pos
451736, within 451638-451820, plus)

Region 48 (indel): 458009 (shown from 458004 to 458015)

Sequence:

Sal1: CGGGG-ATTGGT
Sal2: CGGGGGATTGGT
deDo: CGGGGGATTGGT

Annotation:

Sal1: adenylosuccinate synthase (BCV75_01890) (actual pos
457920, within 457522-458813, plus)
Sal2: adenylosuccinate synthase (BC375_01895) (actual pos
457937, within 457539-458831, plus)
deDo: adenylosuccinate synthetase (B9J09_01985) (actual
pos 457968, within 457570-458862, plus)

Region 49 (indel): 465021-465022 (shown from 465016 to
465028)

Sal1: GGGGG--TTAACG
Sal2: GGGGG--TTAACG
deDo: GGGGGGGTTAACG

Annotation:

Sal1: hypothetical protein (BCV75_01915) (actual pos
464931, within 464323-465188, plus)
Sal2: hypothetical protein (BC375_01920) (actual pos
464949, within 464341-465206, plus)
deDo: hypothetical protein (B9J09_02010) (actual pos
464980, within 464372-465239, plus)

Region 50 (indel): 491104 (shown from 491099 to 491110)

Sequence:

Sal1: CGGGG-AATGTG
Sal2: CGGGGGAATGTG
deDo: CGGGGGAATGTG

Annotation:

Sal1: methionine--tRNA ligase (BCV75_02030) (actual pos 491012, within 489226-491297, minus)
Sal2: methionine--tRNA ligase (BC375_02045) (actual pos 491030, within 489244-491316, minus)
deDo: methionine--tRNA ligase (B9J09_02155) (actual pos 491063, within 489277-491349, minus)

Region 51 (indel): 500729-500746 (shown from 500724 to 500752)

Sal1: ATGAT-----CTGAATGATGTGAGG
Sal2: ATGATCTGAATGATCTGAATGATGTGAGG
deDo: ATGAT-----GTGAGG

Annotation:

Sal1: no gene
Sal2: hypothetical protein (BC375_02080) (actual pos 500655, within 500550-500735, plus)
deDo: no gene

Region 52 (indel): 502223 (shown from 502218 to 502229)

Sequence:

Sal1: GGGGG-ACTGGG
Sal2: GGGGGGACTGGG
deDo: GGGGGGACTGGG

Annotation:

Sal1: hypothetical protein (BCV75_02075) (actual pos 502121, within 502027-502922, plus)
Sal2: hypothetical protein (BC375_02095) (actual pos 502149, within 502055-502951, plus)
deDo: hypothetical protein (B9J09_02205) (actual pos 502164, within 502070-502966, plus)

Region 53 (indel): 503885 (shown from 503880 to 503891)

Sequence:

Sal1: GGGGG-CACATG
Sal2: GGGGG-CACATG
deDo: GGGGGGCACATG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: twin-arginine translocase subunit TatB (B9J09_02215) (actual pos 503826, within 503771-504189, minus)

Region 54 (indel): 504364 (shown from 504359 to 504370)

Sequence:

Sal1: TTTTT-GAACTC
Sal2: TTTTTTGAACTC
deDo: TTTTTTGAACTC

Annotation:

Sal1: protein translocase TatA (BCV75_02090) (actual pos 504260, within 504162-504376, minus)
Sal2: protein translocase TatA (BC375_02110) (actual pos 504289, within 504191-504406, minus)
deDo: no gene

Region 55 (indel): 509596 (shown from 509591 to 509602)

Sequence:

Sal1: GGGGGGAAGGTC
Sal2: GGGGG-AAGGTC
deDo: GGGGGGAAGGTC

Annotation:

Sal1: tRNA 2-thiocytidine(32) synthetase TtcA (BCV75_02115) (actual pos 509491, within 508606-509505, minus)
Sal2: no gene
deDo: tRNA 2-thiocytidine(32) synthetase TtcA (B9J09_02245) (actual pos 509537, within 508652-509551, minus)

Region 56 (indel): 521566 (shown from 521561 to 521572)

Sequence:

Sal1: TTTT-CTAGTC
Sal2: TTTTTTCTAGTC
deDo: TTTTTTCTAGTC

Annotation:

Sal1: AI-2E family transporter (BCV75_02170) (actual pos 521461, within 521246-522402, plus)
Sal2: AI-2E family transporter (BC375_02195) (actual pos 521490, within 521275-522432, plus)
deDo: AI-2E family transporter (B9J09_02315) (actual pos 521507, within 521292-522449, plus)

Region 57 (indel): 525335 (shown from 525330 to 525341)

Sequence:

Sal1: GGGGG-CATGTT
Sal2: GGGGG-CATGTT
deDo: GGGGGGCATGTT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 58 (indel): 529962 (shown from 529957 to 529968)

Sequence:

Sal1: AAAAA-GAGGCG
Sal2: AAAAAAGAGGCG
deDo: AAAAAAGAGGCG

Annotation:

Sal1: Fe²⁺-dependent dioxygenase (BCV75_02215) (actual pos 529855, within 529690-530381, minus)
Sal2: Fe²⁺-dependent dioxygenase (BC375_02240) (actual pos 529885, within 529720-530412, minus)
deDo: PKHD-type hydroxylase (B9J09_02360) (actual pos 529903, within 529738-530430, minus)

Region 59 (indel): 530501 (shown from 530496 to 530507)

Sequence:

Sal1: TTTTT-GAGCTA
Sal2: TTTTTTGAGCTA
deDo: TTTTTGAGCTA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 60 (indel): 545521 (shown from 545516 to 545527)

Sequence:

Sal1: TTTTT-GATGGC
Sal2: TTTTTTGATGGC
deDo: TTTTTGATGGC

Annotation:

Sal1: polysaccharide biosynthesis protein GtrA (BCV75_02275) (actual pos 545412, within 545063-545475, plus)
Sal2: polysaccharide biosynthesis protein GtrA (BC375_02300) (actual pos 545444, within 545095-545508, plus)
deDo: polysaccharide biosynthesis protein GtrA (B9J09_02420) (actual pos 545462, within 545113-545526, plus)

Region 61 (indel): 575392 (shown from 575387 to 575398)

Sequence:

Sal1: CCCCC-ATCACA
Sal2: CCCCCATCACA
deDo: CCCCCATCACA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 62 (indel): 576171 (shown from 576166 to 576177)

Sequence:

Sal1: TTTT-GGGTGC
Sal2: TTTTTTGGGTGC
deDo: TTTTTTGGGTGC

Annotation:

Sal1: hypothetical protein (BCV75_02420) (actual pos 576060, within 575707-576272, plus)
Sal2: hypothetical protein (BC375_02440) (actual pos 576094, within 575741-576307, plus)
deDo: hypothetical protein (B9J09_02590) (actual pos 576112, within 575759-576325, plus)

Region 63 (indel): 612698 (shown from 612693 to 612704)

Sequence:

Sal1: GGGGG-CTGACG
Sal2: GGGGG-CTGACG
deDo: GGGGGGCTGACG

Annotation:

Sal1: hypothetical protein (BCV75_02595) (actual pos 612586, within 612380-612888, plus)
Sal2: hypothetical protein (BC375_02615) (actual pos 612621, within 612415-612923, plus)
deDo: hypothetical protein (B9J09_02785) (actual pos 612639, within 612433-612942, plus)

Region 64 (indel): 631294 (shown from 631289 to 631300)

Sequence:

Sal1: GGGGG-CGGCGT
Sal2: GGGGGCGGGCGT
deDo: GGGGGCGGGCGT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 65 (indel): 645224 (shown from 645219 to 645230)

Sequence:

Sal1: ACCCC-GGGGAC
Sal2: ACCCCCGGGGAC
deDo: ACCCCCGGGGAC

Annotation:

Sal1: hypothetical protein (BCV75_02725) (actual pos 645110, within 644743-645677, plus)
Sal2: hypothetical protein (BC375_02745) (actual pos 645146, within 644779-645714, plus)
deDo: hypothetical protein (B9J09_02925) (actual pos 645165, within 644798-645733, plus)

Region 66 (indel): 646999 (shown from 646994 to 647005)

Sequence:

Sal1: GGGGG-CGCTGT
Sal2: GGGGG-CGCTGT
deDo: GGGGGGCGCTGT

Annotation:

Sal1: excinuclease ABC subunit A (BCV75_02730) (actual pos 646884, within 645876-648700, minus)
Sal2: excinuclease ABC subunit A (BC375_02750) (actual pos 646921, within 645913-648737, minus)
deDo: ABC-ATPase UvrA (B9J09_02930) (actual pos 646940, within 645857-648754, minus)

Region 67 (indel): 658558 (shown from 658553 to 658564)

Sequence:

Sal1: CCCCCAAGTCT
Sal2: CCCCC-AAGTCT
deDo: CCCCCAAGTCT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 68 (indel): 674332 (shown from 674327 to 674338)

Sequence:

Sal1: CCCCC-TTGATG
Sal2: CCCCCCTTGATG
deDo: CCCCCCTTGATG

Annotation:

Sal1: hypothetical protein (BCV75_02830) (actual pos 674216, within 673748-674364, minus)
Sal2: hypothetical protein (BC375_02850) (actual pos 674252, within 673784-674401, minus)
deDo: hypothetical protein (B9J09_03035) (actual pos 674273, within 673805-674422, minus)

Region 69 (indel): 674927 (shown from 674922 to 674933)

Sequence:

Sal1: TAAAA-TATAAT
Sal2: TAAAAATATAAT
deDo: TAAAAATATAAT

Annotation:

Sal1: hypothetical protein (BCV75_02840) (actual pos 674810, within 674636-675258, minus)
Sal2: hypothetical protein (BC375_02860) (actual pos 674847, within 674673-675296, minus)
deDo: hypothetical protein (B9J09_03045) (actual pos 674868, within 674694-675317, minus)

Region 70 (indel): 675903 (shown from 675898 to 675909)

Sequence:

Sal1: TTTTT-GATAAA
Sal2: TTTTTTGATAAA
deDo: TTTTTTGATAAA

Annotation:

Sal1: hypothetical protein (BCV75_02850) (actual pos 675785, within 675530-676152, minus)
Sal2: hypothetical protein (BC375_02870) (actual pos 675823, within 675568-676191, minus)
deDo: hypothetical protein (B9J09_03055) (actual pos 675844, within 675589-676212, minus)

Region 71 (indel): 676300 (shown from 676295 to 676306)

Sequence:

Sal1: GGGGG-TGTGGT
Sal2: GGGGGGTGTGGT
deDo: GGGGGGTGTGGT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 72 (indel): 676714 (shown from 676709 to 676720)

Sequence:

Sal1: AGGGG-AAGGTG
Sal2: AGGGGGAAGGTG
deDo: AGGGGGAAGGTG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 73 (indel): 676747 (shown from 676742 to 676753)

Sequence:

Sal1: GGGGG-CTGTGG
Sal2: GGGGGGCTGTGG
deDo: GGGGGGCTGTGG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 74 (indel): 676809 (shown from 676804 to 676815)

Sequence:

Sal1: GGGGG-CGGTGT
Sal2: GGGGGCGGTGT
deDo: GGGGGCGGTGT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 75 (indel): 688281 (shown from 688276 to 688287)

Sequence:
Sal1: CGGGGGAGATGC
Sal2: CGGGG-AGATGC
deDo: CGGGGGAGATGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 76 (indel): 704138 (shown from 704133 to 704144)

Sequence:
Sal1: AAAAA-TAGTTC
Sal2: AAAAAATAGTTC
deDo: AAAAAATAGTTC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 77 (indel): 707290 (shown from 707285 to 707296)

Sequence:
Sal1: AAAAA-TCACGT
Sal2: AAAAAATCACGT
deDo: AAAAAATCACGT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 78 (indel): 709707 (shown from 709702 to 709713)

Sequence:
Sal1: TTTT-CGTTGG
Sal2: TTTT-CGTTGG
deDo: TTTTTCGTTGG

Annotation:
Sal1: polysaccharide biosynthesis protein GumF
(BCV75_02980) (actual pos 709582, within 709278-710367,
plus)

Sal2: polysaccharide biosynthesis protein GumF
(BC375_03005) (actual pos 709626, within 709322-710411,
plus)
deDo: polysaccharide biosynthesis protein GumF
(B9J09_03195) (actual pos 709648, within 709344-710435,
plus)

Region 79 (indel): 709812 (shown from 709807 to 709818)

Sequence:
Sal1: GGGGG-AGGAAC
Sal2: GGGGG-AGGAAC
deDo: GGGGGGAGGAAC

Annotation:
Sal1: polysaccharide biosynthesis protein GumF
(BCV75_02980) (actual pos 709686, within 709278-710367,
plus)
Sal2: polysaccharide biosynthesis protein GumF
(BC375_03005) (actual pos 709730, within 709322-710411,
plus)
deDo: polysaccharide biosynthesis protein GumF
(B9J09_03195) (actual pos 709753, within 709344-710435,
plus)

Region 80 (indel): 712176 (shown from 712171 to 712182)

Sequence:
Sal1: TTTT-CAGTGG
Sal2: TTTTTCAGTGG
deDo: TTTTTCAGTGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 81 (indel): 714049 (shown from 714044 to 714055)

Sequence:
Sal1: TTTT-GAAAAT
Sal2: TTTTTCGAAAAT
deDo: TTTTTCGAAAAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 82 (indel): 719817-719831 (shown from 719812 to
719837)

Sal1: CGTGC-----TTTCAG
Sal2: CGTGCGATTGGCAATCGTGCTTTCAG
deDo: CGTGCGATTGGCAATCGTGCTTTCAG

Annotation:

Sal1: beta-N-acetylhexosaminidase (BCV75_03025) (actual pos 719688, within 719302-720294, plus)
Sal2: beta-N-acetylhexosaminidase (BC375_03050) (actual pos 719734, within 719348-720355, plus)
deDo: beta-N-acetylhexosaminidase (B9J09_03240) (actual pos 719758, within 719372-720379, plus)

Region 83 (indel): 732437 (shown from 732432 to 732443)

Sequence:

Sal1: GGGGG-TGCTGG
Sal2: GGGGGGTGCTGG
deDo: GGGGGGTGCTGG

Annotation:

Sal1: molecular chaperone DnaK (BCV75_03085) (actual pos 732293, within 731150-733065, plus)
Sal2: molecular chaperone DnaK (BC375_03110) (actual pos 732354, within 731211-733127, plus)
deDo: molecular chaperone DnaK (B9J09_03305) (actual pos 732378, within 731235-733151, plus)

Region 84 (indel): 754772 (shown from 754767 to 754778)

Sequence:

Sal1: TTTTT-GCGTGG
Sal2: TTTTTGCGTGG
deDo: TTTTTGCGTGG

Annotation:

Sal1: DNA methyltransferase (BCV75_03195) (actual pos 754627, within 754050-754750, minus)
Sal2: DNA methyltransferase (BC375_03220) (actual pos 754689, within 754112-754813, minus)
deDo: DNA modification methylase (B9J09_03430) (actual pos 754713, within 754136-754837, minus)

Region 85 (indel): 791988 (shown from 791983 to 791994)

Sequence:

Sal1: TTTTT-CATCAG
Sal2: TTTTTTCATCAG
deDo: TTTTTTCATCAG

Annotation:

Sal1: glycerol kinase (BCV75_03365) (actual pos 791842, within 790346-791896, minus)
Sal2: glycerol kinase (BC375_03395) (actual pos 791905, within 790409-791908, minus)
deDo: glycerol kinase (B9J09_03620) (actual pos 791929, within 790433-791932, minus)

Region 86 (indel): 800339-800341 (shown from 800334 to 800347)

Sal1: ACCAC---TCCAGC
Sal2: ACCACCACTCCAGC

deDo: ACCACCACTCCAGC

Annotation:

Sal1: polyvinylalcohol dehydrogenase (BCV75_03400) (actual pos 800192, within 799881-801488, minus)
Sal2: polyvinylalcohol dehydrogenase (BC375_03430) (actual pos 800256, within 799945-801555, minus)
deDo: polyvinylalcohol dehydrogenase (B9J09_03655) (actual pos 800280, within 799969-801579, minus)

Region 87 (indel): 801938 (shown from 801933 to 801944)

Sequence:

Sal1: CCCCCCGGGCCT
Sal2: CCCCC-GGGCCT
deDo: CCCCCCGGGCCT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 88 (indel): 808030 (shown from 808025 to 808036)

Sequence:

Sal1: GGGGG-TAAATC
Sal2: GGGGGGTAAATC
deDo: GGGGGGTAAATC

Annotation:

Sal1: cation acetate symporter (807114) (actual pos 807880, within 807114-808846, plus)
Sal2: cation acetate symporter (807180) (actual pos 807946, within 807180-808913, plus)
deDo: cation acetate symporter (807205) (actual pos 807971, within 807205-808938, plus)

Region 89 (indel): 828741 (shown from 828736 to 828747)

Sequence:

Sal1: GGGGGGCATTTC
Sal2: GGGGG-CATTTC
deDo: GGGGGGCATTTC

Annotation:

Sal1: cytochrome C biogenesis protein (BCV75_03500) (actual pos 828590, within 828282-829163, plus)
Sal2: cytochrome C biogenesis protein (BC375_03530) (actual pos 828657, within 828349-829229, plus)
deDo: cytochrome C biogenesis protein (B9J09_03755) (actual pos 828682, within 828374-829255, plus)

Region 90 (indel): 844207 (shown from 844202 to 844213)

Sequence:

Sal1: AAAAA-GCGGGC

Sal2: AAAAAAGCGGGC
deDo: AAAAAAGCGGGC

Annotation:

Sal1: ATP phosphoribosyltransferase (BCV75_03560) (actual pos 844056, within 843999-844912, plus)
Sal2: ATP phosphoribosyltransferase (BC375_03590) (actual pos 844122, within 844065-844979, plus)
deDo: ATP phosphoribosyltransferase (B9J09_03820) (actual pos 844148, within 844091-845005, plus)

Region 91 (indel): 847114 (shown from 847109 to 847120)

Sequence:

Sal1: ACCCCCTGCGTG
Sal2: ACCCC-TGCGTG
deDo: ACCCCCTGCGTG

Annotation:

Sal1: histidinol-phosphate transaminase (BCV75_03570) (actual pos 846962, within 846201-847298, plus)
Sal2: histidinol-phosphate transaminase (BC375_03600) (actual pos 847029, within 846268-847364, plus)
deDo: histidinol-phosphate transaminase (B9J09_03830) (actual pos 847055, within 846294-847391, plus)

Region 92 (indel): 856647 (shown from 856642 to 856653)

Sequence:

Sal1: CCCCC-TGATAG
Sal2: CCCCCCTGATAG
deDo: CCCCCCTGATAG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 93 (indel): 861755 (shown from 861750 to 861761)

Sequence:

Sal1: CCCCC-AATCCA
Sal2: CCCCC-AATCCA
deDo: CCCCCAATCCA

Annotation:

Sal1: ribosomal protein L11 methyltransferase (BCV75_03645) (actual pos 861602, within 860941-861860, minus)
Sal2: ribosomal protein L11 methyltransferase (BC375_03675) (actual pos 861669, within 861008-861927, minus)
deDo: 50S ribosomal protein L11 methyltransferase (B9J09_03905) (actual pos 861696, within 861035-861955, minus)

Region 94 (indel): 863632 (shown from 863627 to 863638)

Sequence:

Sal1: AAGGG-AGGGGG
Sal2: AAGGGGAGGGGG
deDo: AAGGGGAGGGGG

Annotation:

Sal1: hypothetical protein (BCV75_03665) (actual pos 863478, within 863130-863530, plus)
Sal2: hypothetical protein (BC375_03695) (actual pos 863545, within 863197-863598, plus)
deDo: hypothetical protein (B9J09_03925) (actual pos 863573, within 863225-863626, plus)

Region 95 (indel): 868021 (shown from 868016 to 868027)

Sequence:

Sal1: CCCCC-ATCCGA
Sal2: CCCCC-ATCCGA
deDo: CCCCCATCCGA

Annotation:

Sal1: hypothetical protein (BCV75_03695) (actual pos 867866, within 867174-867980, minus)
Sal2: hypothetical protein (BC375_03725) (actual pos 867934, within 867242-868048, minus)
deDo: hemagglutinin (B9J09_03935) (actual pos 867962, within 864138-872655, plus)

Region 96 (indel): 868496 (shown from 868491 to 868502)

Sequence:

Sal1: CCCCC-GCCGTC
Sal2: CCCCC-GCCGTC
deDo: CCCCCGCCGTC

Annotation:

Sal1: hypothetical protein (BCV75_03705) (actual pos 868340, within 868298-868657, minus)
Sal2: hypothetical protein (BC375_03735) (actual pos 868408, within 868366-868725, minus)
deDo: hemagglutinin (B9J09_03935) (actual pos 868437, within 864138-872655, plus)

Region 97 (indel): 870131 (shown from 870126 to 870137)

Sequence:

Sal1: AAAAAAGTCGAC
Sal2: AAAAA-GTCGAC
deDo: AAAAAAGTCGAC

Annotation:

Sal1: hypothetical protein (BCV75_03720) (actual pos 869974, within 869750-870100, minus)
Sal2: hypothetical protein (BC375_03750) (actual pos 870042, within 869979-870161, minus)

deDo: hemagglutinin (B9J09_03935) (actual pos 870072, within 864138-872655, plus)

Region 98 (indel): 871316 (shown from 871311 to 871322)

Sequence:

Sal1: CCCCC-AGCGCC
Sal2: CCCCCAGCGCC
deDo: CCCCCAGCGCC

Annotation:

Sal1: hemagglutinin (BCV75_03725) (actual pos 871159, within 870095-872556, plus)
Sal2: hemagglutinin (BC375_03755) (actual pos 871226, within 870162-872624, plus)
deDo: hemagglutinin (B9J09_03935) (actual pos 871257, within 864138-872655, plus)

Region 99 (indel): 874888 (shown from 874883 to 874894)

Sequence:

Sal1: GGGGGCATTTA
Sal2: GGGGG-CATTTA
deDo: GGGGGCATTTA

Annotation:

Sal1: hemagglutinin (BCV75_03740) (actual pos 874730, within 874294-875531, plus)
Sal2: hypothetical protein (BC375_03770) (actual pos 874798, within 874362-874808, plus)
deDo: hemagglutinin (B9J09_03950) (actual pos 874829, within 874774-875630, plus)

Region 100 (indel): 875749 (shown from 875744 to 875755)

Sequence:

Sal1: GGGGG-CTTTGG
Sal2: GGGGGGCTTTGG
deDo: GGGGGGCTTTGG

Annotation:

Sal1: hypothetical protein (BCV75_03745) (actual pos 875591, within 875543-875925, plus)
Sal2: hypothetical protein (BC375_03780) (actual pos 875658, within 875610-875993, plus)
deDo: hypothetical protein (B9J09_03955) (actual pos 875690, within 875642-876025, plus)

Region 101 (indel): 876594 (shown from 876589 to 876600)

Sequence:

Sal1: AAAAA-GAAAAA
Sal2: AAAAAAGAAAAA
deDo: AAAAAAGAAAAA

Annotation:

Sal1: hemagglutinin (BCV75_03750) (actual pos 876435, within 876208-876468, plus)

Sal2: hemagglutinin (BC375_03785) (actual pos 876503, within 876276-876530, plus)

deDo: hemagglutinin (B9J09_03960) (actual pos 876535, within 876257-876562, plus)

Region 102 (indel): 905145 (shown from 905140 to 905151)

Sequence:

Sal1: GGGGG-CGAGCC
Sal2: GGGGGCGAGCC
deDo: GGGGGCGAGCC

Annotation:

Sal1: 3-deoxy-D-manno-octulosonic acid kinase (BCV75_03885) (actual pos 904985, within 904854-905602, plus)
Sal2: 3-deoxy-D-manno-octulosonic acid kinase (BC375_03925) (actual pos 905054, within 904923-905672, plus)
deDo: 3-deoxy-D-manno-octulosonic acid kinase (B9J09_04120) (actual pos 905086, within 904955-905704, plus)

Region 103 (indel): 918248 (shown from 918243 to 918254)

Sequence:

Sal1: GGGGG-AATGCT
Sal2: GGGGGGAATGCT
deDo: GGGGGGAATGCT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 104 (indel): 918736 (shown from 918731 to 918742)

Sequence:

Sal1: TTTTT-GTGCCA
Sal2: TTTTTGTGCCA
deDo: TTTTTGTGCCA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 105 (indel): 930015 (shown from 930010 to 930021)

Sequence:

Sal1: ACCCC-TGTGGT
Sal2: ACCCCCTGTGGT
deDo: ACCCCCTGTGGT

Annotation:

Sal1: hypothetical protein (BCV75_03985) (actual pos 929852, within 929845-930387, minus)

Sal2: hypothetical protein (BC375_04020) (actual pos 929924, within 929441-930460, minus)

deDo: hypothetical protein (B9J09_04230) (actual pos 929956, within 929473-930492, minus)

Region 106 (indel): 936047 (shown from 936042 to 936053)

Sequence:

Sal1: CCCCCCAGCCT

Sal2: CCCCC-ACGCCT

deDo: CCCCCCAGCCT

Annotation:

Sal1: terminase (BCV75_04020) (actual pos 935883, within 935795-937894, plus)

Sal2: terminase (BC375_04055) (actual pos 935956, within 935868-937965, plus)

deDo: terminase (B9J09_04270) (actual pos 935988, within 935900-937999, plus)

Region 107 (indel): 936364 (shown from 936359 to 936370)

Sequence:

Sal1: CCCCCCTGCTCA

Sal2: CCCCC-TGCTCA

deDo: CCCCCCTGCTCA

Annotation:

Sal1: terminase (BCV75_04020) (actual pos 936200, within 935795-937894, plus)

Sal2: terminase (BC375_04055) (actual pos 936272, within 935868-937965, plus)

deDo: terminase (B9J09_04270) (actual pos 936305, within 935900-937999, plus)

Region 108 (indel): 938384 (shown from 938379 to 938390)

Sequence:

Sal1: CCCCC-GCGCCT

Sal2: CCCCCCGCGCCT

deDo: CCCCCCGCGCCT

Annotation:

Sal1: hypothetical protein (BCV75_04025) (actual pos 938220, within 938167-938717, plus)

Sal2: hypothetical protein (BC375_04065) (actual pos 938291, within 938275-938790, plus)

deDo: hypothetical protein (B9J09_04280) (actual pos 938325, within 938309-938824, plus)

Region 109 (indel): 938698 (shown from 938693 to 938704)

Sequence:

Sal1: CCCCC-GCGACG

Sal2: CCCCCCGCGACG

deDo: CCCCCCGCGACG

Annotation:

Sal1: hypothetical protein (BCV75_04025) (actual pos 938533, within 938167-938717, plus)

Sal2: hypothetical protein (BC375_04065) (actual pos 938605, within 938275-938790, plus)

deDo: hypothetical protein (B9J09_04280) (actual pos 938639, within 938309-938824, plus)

Region 110 (indel): 958502 (shown from 958497 to 958508)

Sequence:

Sal1: AAAAA-TGCTGT

Sal2: AAAAAATGCTGT

deDo: AAAAAATGCTGT

Annotation:

Sal1: multidrug efflux RND transporter permease (BCV75_04130) (actual pos 958336, within 956786-959952, minus)

Sal2: multidrug efflux RND transporter permease (BC375_04170) (actual pos 958409, within 956859-960026, minus)

deDo: no gene

Region 111 (indel): 968888 (shown from 968883 to 968894)

Sequence:

Sal1: GGGGG-ACGGCA

Sal2: GGGGGGACGGCA

deDo: GGGGGGACGGCA

Annotation:

Sal1: 5'-nucleotidase (BCV75_04155) (actual pos 968721, within 967904-968862, plus)

Sal2: 5'-nucleotidase (BC375_04195) (actual pos 968795, within 967978-968937, plus)

deDo: 5'-nucleotidase (B9J09_04440) (actual pos 968829, within 968012-968971, plus)

Region 112 (indel): 983743 (shown from 983738 to 983749)

Sequence:

Sal1: AAAAA-TCGAAG

Sal2: AAAAAATCGAAG

deDo: AAAAAATCGAAG

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 113 (indel): 988795 (shown from 988790 to 988801)

Sequence:
Sal1: GGGGG-CATGAG
Sal2: GGGGGGCATGAG
deDo: GGGGGGCATGAG

Annotation:
Sal1: hypothetical protein (BCV75_04275) (actual pos 988626, within 988061-989058, minus)
Sal2: hypothetical protein (BC375_04320) (actual pos 988702, within 988137-989135, minus)
deDo: hypothetical protein (B9J09_04580) (actual pos 988736, within 988171-989169, minus)

Region 114 (indel): 989285 (shown from 989280 to 989291)

Sequence:
Sal1: AGGGG-CTGGTG
Sal2: AGGGGGCTGGTG
deDo: AGGGGGCTGGTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 115 (indel): 998800 (shown from 998795 to 998806)

Sequence:
Sal1: GGGGG-CGAGAC
Sal2: GGGGG-CGAGAC
deDo: GGGGGCGAGAC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 116 (indel): 1000123 (shown from 1000118 to 1000129)

Sequence:
Sal1: CCCCC-AAAGGG
Sal2: CCCCCAAAGGG
deDo: CCCCCAAAGGG

Annotation:
Sal1: hypothetical protein (BCV75_04340) (actual pos 999951, within 999781-1000325, plus)
Sal2: hypothetical protein (BC375_04385) (actual pos 1000029, within 999859-1000404, plus)
deDo: hypothetical protein (B9J09_04645) (actual pos 1000064, within 999882-1000439, plus)

Region 117 (indel): 1008995 (shown from 1008990 to 1009001)

Sequence:
Sal1: GGGGG-CTCTGC
Sal2: GGGGG-CTCTGC
deDo: GGGGGGCTCTGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 118 (indel): 1065850 (shown from 1065845 to 1065856)

Sequence:
Sal1: GGGGG-ATGGGT
Sal2: GGGGGGATGGGT
deDo: GGGGGGATGGGT

Annotation:
Sal1: glutamate methyltransferase (BCV75_04580) (actual pos 1065676, within 1064613-1065811, plus)
Sal2: glutamate methyltransferase (BC375_04625) (actual pos 1065755, within 1064692-1065891, plus)
deDo: glutamate methyltransferase (B9J09_04915) (actual pos 1065791, within 1064728-1065927, plus)

Region 119 (indel): 1066813 (shown from 1066808 to 1066819)

Sequence:
Sal1: TTTTT-GAGATA
Sal2: TTTTTTGAGATA
deDo: TTTTTTGAGATA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 120 (indel): 1068528 (shown from 1068523 to 1068534)

Sequence:
Sal1: GGGGG-TAAATA
Sal2: GGGGG-TAAATA
deDo: GGGGGTAAATA

Annotation:
Sal1: colicin V synthesis protein (BCV75_04595) (actual pos 1068352, within 1068335-1068922, minus)
Sal2: colicin V synthesis protein (BC375_04640) (actual pos 1068433, within 1068416-1069003, minus)
deDo: colicin V synthesis protein (B9J09_04930) (actual pos 1068469, within 1068382-1069040, minus)

Region 121 (indel): 1074221 (shown from 1074216 to 1074227)

Sequence:

Sal1: TTTTT-CATCAA
Sal2: TTTTTTCATCAA
deDo: TTTTTTCATCAA

Annotation:

Sal1: dipeptidyl carboxypeptidase II (BCV75_04610) (actual pos 1074044, within 1072552-1074719, minus)
Sal2: dipeptidyl carboxypeptidase II (BC375_04660) (actual pos 1074125, within 1072633-1074801, minus)
deDo: dipeptidyl carboxypeptidase II (B9J09_04950) (actual pos 1074162, within 1072670-1074838, minus)

Region 122 (indel): 1087423 (shown from 1087418 to 1087429)

Sequence:

Sal1: CCCCC-TGACGT
Sal2: CCCCCCTGACGT
deDo: CCCCCCTGACGT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 123 (indel): 1095170 (shown from 1095165 to 1095176)

Sequence:

Sal1: TTTTT-ATAATT
Sal2: TTTTTTATAATT
deDo: TTTTTTATAATT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 124 (indel): 1102516 (shown from 1102511 to 1102522)

Sequence:

Sal1: TTTTT-AAATTT
Sal2: TTTTTTAAATTT
deDo: TTTTTTAAATTT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 125 (indel): 1112727 (shown from 1112722 to

1112733)

Sequence:

Sal1: GGGGG-ATCAAC
Sal2: GGGGGGATCAAC
deDo: GGGGGGATCAAC

Annotation:

Sal1: protein TolQ (BCV75_04825) (actual pos 1112546, within 1112445-1113217, plus)
Sal2: protein TolQ (BC375_04880) (actual pos 1112631, within 1112530-1113303, plus)
deDo: protein TolQ (B9J09_05180) (actual pos 1112668, within 1112567-1113340, plus)

Region 126 (indel): 1113953 (shown from 1113948 to 1113959)

Sequence:

Sal1: GGGGG-TGTTTT
Sal2: GGGGGGTGTTTT
deDo: GGGGGGTGTTTT

Annotation:

Sal1: protein TolA (BCV75_04835) (actual pos 1113771, within 1113675-1114714, plus)
Sal2: protein TolA (BC375_04890) (actual pos 1113857, within 1113761-1114801, plus)
deDo: protein TolA (B9J09_05190) (actual pos 1113894, within 1113798-1114838, plus)

Region 127 (indel): 1128989 (shown from 1128984 to 1128995)

Sequence:

Sal1: TTTT-CTTTGA
Sal2: TTTTTCTTTGA
deDo: TTTTTCTTTGA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 128 (subst): 1129764 (shown from 1129759 to 1129770)

Sequence:

Sal1: GAACGGGGCGCA
Sal2: GAACGGGGCGCA
deDo: GAACGAGGCGCG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 129 (subst): 1129770 (shown from 1129765 to 1129776)

Sequence:
Sal1: GGCGCACGCATG
Sal2: GGCGCACGCATG
deDo: GGCGCGCGCATG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 130 (subst): 1129805 (shown from 1129800 to 1129811)

Sequence:
Sal1: CGTTCGTCAATT
Sal2: CGTTCGTCAATT
deDo: CGTTCATCAATT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 131 (subst): 1129834 (shown from 1129829 to 1129840)

Sequence:
Sal1: GTTTATCTCAGC
Sal2: GTTTATCTCAGC
deDo: GTTTACCTCAGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 132 (indel): 1130355 (shown from 1130350 to 1130361)

Sequence:
Sal1: TTTTT-ACATAG
Sal2: TTTTTTACATAG
deDo: TTTTTTACATAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 133 (indel): 1131755 (shown from 1131750 to 1131761)

Sequence:
Sal1: TCCCC-GGGTGA
Sal2: TCCCCCGGGTGA
deDo: TCCCCCGGGTGA

Annotation:
Sal1: hypothetical protein (BCV75_04915) (actual pos 1131570, within 1131407-1131720, plus)
Sal2: hypothetical protein (BC375_04975) (actual pos 1131659, within 1131496-1131810, plus)
deDo: hypothetical protein (B9J09_05290) (actual pos 1131696, within 1131533-1131847, plus)

Region 134 (indel): 1131929 (shown from 1131924 to 1131935)

Sequence:
Sal1: TTTTT-GTTTTA
Sal2: TTTTTTGTTTTA
deDo: TTTTTTGTTTTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 135 (indel): 1131952 (shown from 1131947 to 1131958)

Sequence:
Sal1: GTTTT-GTGTTG
Sal2: GTTTTGTGTTG
deDo: GTTTTGTGTTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 136 (indel): 1131976 (shown from 1131971 to 1131982)

Sequence:
Sal1: TTTTT-GTTGTT
Sal2: TTTTTGTGTTGTT
deDo: TTTTTGTGTTGTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 137 (subst): 1132558 (shown from 1132553 to 1132564)

Sequence:

Sal1: CTGGACGCTTCA
Sal2: CTGGACGCTTCA
deDo: CTGGATGCTTCA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 138 (indel): 1132593 (shown from 1132588 to 1132599)

Sequence:
Sal1: TTTTT-GTGATT
Sal2: TTTTTGTGATT
deDo: TTTTTGTGATT

Annotation:
Sal1: hypothetical protein (BCV75_04930) (actual pos 1132404, within 1132375-1133675, plus)
Sal2: hypothetical protein (BC375_04990) (actual pos 1132497, within 1132468-1133769, plus)
deDo: hypothetical protein (B9J09_05305) (actual pos 1132534, within 1132505-1133806, plus)

Region 139 (indel): 1135550 (shown from 1135545 to 1135556)

Sequence:
Sal1: TTTTT-GGTCTT
Sal2: TTTTTGGTCTT
deDo: TTTTTGGTCTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 140 (indel): 1140122 (shown from 1140117 to 1140128)

Sequence:
Sal1: TTTTT-GTTTTT
Sal2: TTTTTGTTTTT
deDo: TTTTTGTTTTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 141 (indel): 1140180 (shown from 1140175 to 1140186)

Sequence:
Sal1: TTTTTCTTGTT

Sal2: TTTTT-CTTGTT
deDo: TTTTTCTTGTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 142 (subst): 1141272 (shown from 1141267 to 1141278)

Sequence:
Sal1: TTCTCTGTCCGG
Sal2: TTCTCTGTCCGG
deDo: TTCTCCGTCCGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 143 (subst): 1141429 (shown from 1141424 to 1141435)

Sequence:
Sal1: TGGAACCAGGT
Sal2: TGGAACCAGGT
deDo: TGGAAGCCAGGT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 144 (subst): 1141522 (shown from 1141517 to 1141528)

Sequence:
Sal1: GACGCTCCTAAG
Sal2: GACGCTCCTAAG
deDo: GACGCGCCTAAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 145 (indel): 1148119 (shown from 1148114 to 1148125)

Sequence:
Sal1: TTTTT-GTTTTT
Sal2: TTTTTGTTTTT
deDo: TTTTTGTTTTT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 146 (indel): 1148177 (shown from 1148172 to 1148183)

Sequence:
Sal1: TTTTT-CTTGTT
Sal2: TTTTTCTTGTT
deDo: TTTTTCTTGTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 147 (subst): 1149269 (shown from 1149264 to 1149275)

Sequence:
Sal1: TTCTCTGTCCGG
Sal2: TTCTCTGTCCGG
deDo: TTCTCCGTCCGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 148 (subst): 1149426 (shown from 1149421 to 1149432)

Sequence:
Sal1: TGGAAACCAGGT
Sal2: TGGAAACCAGGT
deDo: TGGAAAGCCAGGT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 149 (subst): 1149519 (shown from 1149514 to 1149525)

Sequence:
Sal1: GACGCTCCTAAG
Sal2: GACGCTCCTAAG
deDo: GACGCGCCTAAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 150 (subst): 1153944 (shown from 1153939 to 1153950)

Sequence:
Sal1: GAACGGGGCGCA
Sal2: GAACGGGGCGCA
deDo: GAACGAGGCGCG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 151 (subst): 1153950 (shown from 1153945 to 1153956)

Sequence:
Sal1: GGCGCACGCATG
Sal2: GGCGCACGCATG
deDo: GGCGCGCGCATG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 152 (subst): 1153985 (shown from 1153980 to 1153991)

Sequence:
Sal1: CGTTCGTCAATT
Sal2: CGTTCGTCAATT
deDo: CGTTCATCAATT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 153 (subst): 1154014 (shown from 1154009 to 1154020)

Sequence:
Sal1: GTTTATCTCAGC
Sal2: GTTTATCTCAGC
deDo: GTTIACCTCAGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 154 (indel): 1154535 (shown from 1154530 to 1154541)

Sequence:
Sal1: TTTTT-ACATAG
Sal2: TTTTTTACATAG
deDo: TTTTTTACATAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 155 (indel): 1155242 (shown from 1155237 to 1155248)

Sequence:
Sal1: TGGGGGCGGGTC
Sal2: TGGGG-CGGGTC
deDo: TGGGGGCGGGTC

Annotation:
Sal1: Replication initiation factor (BCV75_05090) (actual pos 1155047, within 1154356-1155531, plus)
Sal2: Replication initiation factor (BC375_05155) (actual pos 1155145, within 1154454-1155628, plus)
deDo: Replication initiation factor (B9J09_05515) (actual pos 1155183, within 1154492-1155667, plus)

Region 156 (indel): 1156126 (shown from 1156121 to 1156132)

Sequence:
Sal1: TTTTT-GTTTTT
Sal2: TTTTTIGTTTTT
deDo: TTTTTIGTTTTT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 157 (indel): 1156166 (shown from 1156161 to 1156172)

Sequence:
Sal1: TTTTT-GTTGAT
Sal2: TTTTTTGTTGAT
deDo: TTTTTTGTTGAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 158 (indel): 1159651 (shown from 1159646 to 1159657)

Sequence:

Sal1: GGGGG-TGTGAT
Sal2: GGGGGGTGTGAT
deDo: GGGGGGTGTGAT

Annotation:
Sal1: Zonular occludens toxin (BCV75_05120) (actual pos 1159454, within 1158226-1159553, plus)
Sal2: Zonular occludens toxin (BC375_05185) (actual pos 1159553, within 1158325-1159653, plus)
deDo: Zonular occludens toxin (B9J09_05545) (actual pos 1159592, within 1158364-1159692, plus)

Region 159 (indel): 1160164 (shown from 1160159 to 1160170)

Sequence:
Sal1: TTTTT-CTTTCT
Sal2: TTTTTCTTTCT
deDo: TTTTTCTTTCT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 160 (indel): 1165662-1165675 (shown from 1165657 to 1165681)

Sal1: TCGTC-----ATCTCA
Sal2: TCGICTTTCGICTTTCGTCATCTCA
deDo: TCGICTTTCGTC-----ATCTCA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 161 (indel): 1167900 (shown from 1167895 to 1167906)

Sequence:
Sal1: AAAAA-TATGCA
Sal2: AAAAAATATGCA
deDo: AAAAAATATGCA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 162 (indel): 1168538 (shown from 1168533 to 1168544)

Sequence:
Sal1: AGGGG-CACACC
Sal2: AGGGGGCACACC
deDo: AGGGGGCACACC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 163 (indel): 1168557 (shown from 1168552 to 1168563)

Sequence:
Sal1: CCCCC-ACACAC
Sal2: CCCCC-ACACAC
deDo: CCCCCACACAC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 164 (subst): 1177621-1177622 (shown from 1177616 to 1177628)
Sal1: TTTTACCCC-TG
Sal2: TTTTACCCCCTG
deDo: TTTTACCCCCTG

Annotation:
Sal1: peptidase S41 (BCV75_05235) (actual pos 1177410, within 1176385-1177982, minus)
Sal2: peptidase S41 (BC375_05300) (actual pos 1177527, within 1176502-1178100, minus)
deDo: peptidase S41 (B9J09_05680) (actual pos 1177560, within 1176535-1178133, minus)

Region 165 (indel): 1177626 (shown from 1177621 to 1177632)

Sequence:
Sal1: ACCCC-TGCTGT
Sal2: TACCCCTGCTGT
deDo: TACCCCTGCTGT

Annotation:
Sal1: peptidase S41 (BCV75_05235) (actual pos 1177410, within 1176385-1177982, minus)
Sal2: peptidase S41 (BC375_05300) (actual pos 1177527, within 1176502-1178100, minus)
deDo: peptidase S41 (B9J09_05680) (actual pos 1177560, within 1176535-1178133, minus)

Region 166 (indel): 1179267 (shown from 1179262 to 1179273)

Sequence:
Sal1: CCCCCGCAGGC
Sal2: CCCCC-GCAGGC
deDo: CCCCCGCAGGC

Annotation:
Sal1: peptidase S41 (BCV75_05240) (actual pos 1179050, within 1178095-1179688, minus)
Sal2: peptidase S41 (BC375_05305) (actual pos 1179168, within 1178213-1179805, minus)
deDo: peptidase S41 (B9J09_05685) (actual pos 1179201, within 1178246-1179839, minus)

Region 167 (indel): 1183843-1183926 (shown from 1183838 to 1183932)
Sal1: GGTGTGGGGTGGTGTAGGGGTTGGTGTGGGG
GTTGGTGTAGGGGTTGGTGTGGGGGTTGGTGTGGGG
GTTGGTGTAGGGGTTGGTGTATCTTT
Sal2: GGTGTGGGGTGGTGTAGGGGTTGGTGTGGGG
GTTGGTGTAGGGGTTGGTGTGGGGGTTGGTGTGGGG
GTTGGTGTAGGGGTTGGTGTATCTTT
deDo: GGTGT-----
-----ATCTTT

Annotation:
Sal1: hypothetical protein (BCV75_05250) (actual pos 1183626, within 1183453-1183707, plus)
Sal2: no gene
deDo: hypothetical protein (B9J09_05700) (actual pos 1183777, within 1183604-1183783, plus)

Region 168 (subst): 1203349-1203350 (shown from 1203344 to 1203356)
Sal1: CCCCCG-ACCATG
Sal2: CCCCCGACCATG
deDo: CCCCCGACCATG

Annotation:
Sal1: hypothetical protein (BCV75_05355) (actual pos 1203133, within 1202906-1203627, minus)
Sal2: hypothetical protein (BC375_05415) (actual pos 1203250, within 1203023-1203745, minus)
deDo: hypothetical protein (B9J09_05805) (actual pos 1203200, within 1202973-1203695, minus)

Region 169 (indel): 1206686 (shown from 1206681 to 1206692)

Sequence:
Sal1: CCCCC-TCAGCC
Sal2: CCCCCCTCAGCC
deDo: CCCCCCTCAGCC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 170 (indel): 1211875 (shown from 1211870 to 1211881)

Sequence:

Sal1: TCCCC-TACAGC
Sal2: TCCCCCTACAGC
deDo: TCCCCCTACAGC

Annotation:

Sal1: hypothetical protein (BCV75_05420) (actual pos 1211656, within 1211447-1211841, plus)
Sal2: hypothetical protein (BC375_05480) (actual pos 1211775, within 1211566-1211961, plus)
deDo: hypothetical protein (B9J09_05875) (actual pos 1211725, within 1211516-1211911, plus)

Region 171 (indel): 1216935 (shown from 1216930 to 1216941)

Sequence:

Sal1: GGGGG-ACCTAG
Sal2: GGGGGGACCTAG
deDo: GGGGGGACCTAG

Annotation:

Sal1: DNA polymerase (BCV75_05465) (actual pos 1216715, within 1216708-1218825, plus)
Sal2: DNA polymerase (BC375_05525) (actual pos 1216835, within 1216796-1218946, plus)
deDo: DNA polymerase (B9J09_05920) (actual pos 1216785, within 1216746-1218896, plus)

Region 172 (indel): 1227598 (shown from 1227593 to 1227604)

Sequence:

Sal1: AAAAA-CCATTC
Sal2: AAAAAACCATTC
deDo: AAAAAACCATTC

Annotation:

Sal1: no gene
Sal2: ammonia channel protein (BC375_05565) (actual pos 1227498, within 1226085-1227539, minus)
deDo: ammonia channel protein (B9J09_05965) (actual pos 1227448, within 1226035-1227489, minus)

Region 173 (indel): 1232974 (shown from 1232969 to 1232980)

Sequence:

Sal1: GAAAA-TAAGTT
Sal2: GAAAAATAAGTT
deDo: GAAAAATAAGTT

Annotation:

Sal1: no gene
Sal2: hypothetical protein (BC375_05595) (actual pos 1232874, within 1232867-1233718, plus)

deDo: hypothetical protein (B9J09_05995) (actual pos 1232824, within 1232817-1233668, plus)

Region 174 (indel): 1251028 (shown from 1251023 to 1251034)

Sequence:

Sal1: CCCCCCGCACAT
Sal2: CCCCC-GCACAT
deDo: CCCCCCGCACAT

Annotation:

Sal1: acetolactate synthase 2 catalytic subunit (BCV75_05605) (actual pos 1250805, within 1249772-1251529, plus)
Sal2: acetolactate synthase 2 catalytic subunit (BC375_05670) (actual pos 1250928, within 1249895-1251651, plus)
deDo: acetolactate synthase 2 catalytic subunit (B9J09_06065) (actual pos 1250878, within 1249845-1251602, plus)

Region 175 (indel): 1264278 (shown from 1264273 to 1264284)

Sequence:

Sal1: GGGGG-ACTCGA
Sal2: GGGGGGACTCGA
deDo: GGGGGGACTCGA

Annotation:

Sal1: recombination protein RecR (BCV75_05670) (actual pos 1264055, within 1263715-1264310, minus)
Sal2: recombination protein RecR (BC375_05735) (actual pos 1264177, within 1263837-1264433, minus)
deDo: recombination protein RecR (B9J09_06130) (actual pos 1264128, within 1263788-1264384, minus)

Region 176 (indel): 1290146 (shown from 1290141 to 1290152)

Sequence:

Sal1: ATTTT-GATGGA
Sal2: ATTTTGTATGGA
deDo: ATTTTGTATGGA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 177 (indel): 1299987 (shown from 1299982 to 1299993)

Sequence:

Sal1: GGGGGGATGGGC

Sal2: GGGGG-ATGGGC
deDo: GGGGGGATGGGC

Annotation:

Sal1: hypothetical protein (BCV75_05885) (actual pos 1299762, within 1299399-1300169, minus)
Sal2: hypothetical protein (BC375_05950) (actual pos 1299886, within 1299523-1300292, minus)
deDo: hypothetical protein (B9J09_06340) (actual pos 1299837, within 1299474-1300244, minus)

Region 178 (indel): 1303923 (shown from 1303918 to 1303929)

Sequence:

Sal1: GGGGG-TGGTGA
Sal2: GGGGGGTGGTGA
deDo: GGGGGGTGGTGA

Annotation:

Sal1: hypothetical protein (BCV75_05905) (actual pos 1303698, within 1303595-1304031, minus)
Sal2: hypothetical protein (BC375_05970) (actual pos 1303821, within 1303718-1304155, minus)
deDo: hypothetical protein (B9J09_06360) (actual pos 1303773, within 1303670-1304107, minus)

Region 179 (indel): 1307073 (shown from 1307068 to 1307079)

Sequence:

Sal1: GCCCC-AGGCCG
Sal2: GCCCCAGGCCG
deDo: GCCCCAGGCCG

Annotation:

Sal1: hypothetical protein (BCV75_05930) (actual pos 1306847, within 1306843-1307193, minus)
Sal2: hypothetical protein (BC375_05995) (actual pos 1306971, within 1306950-1307318, minus)
deDo: hypothetical protein (B9J09_06385) (actual pos 1306923, within 1306902-1307270, minus)

Region 180 (indel): 1308149 (shown from 1308144 to 1308155)

Sequence:

Sal1: GCGGG-TGGAGA
Sal2: GCGGGGTGGAGA
deDo: GCGGGGTGGAGA

Annotation:

Sal1: hypothetical protein (BCV75_05940) (actual pos 1307922, within 1307612-1308594, minus)
Sal2: hypothetical protein (BC375_06005) (actual pos 1308047, within 1307737-1308720, minus)
deDo: hypothetical protein (B9J09_06395) (actual pos

1307999, within 1307689-1308672, minus)

Region 181 (indel): 1309142 (shown from 1309137 to 1309148)

Sequence:

Sal1: CGGGG-CTTTGC
Sal2: CGGGGGCTTTGC
deDo: CGGGGGCTTTGC

Annotation:

Sal1: hypothetical protein (BCV75_05945) (actual pos 1308914, within 1308604-1309085, minus)
Sal2: hypothetical protein (BC375_06010) (actual pos 1309040, within 1308730-1309212, minus)
deDo: hypothetical protein (B9J09_06400) (actual pos 1308992, within 1308682-1309164, minus)

Region 182 (indel): 1310374 (shown from 1310369 to 1310380)

Sequence:

Sal1: GGGGG-CGGTAG
Sal2: GGGGGCGGTAG
deDo: GGGGGCGGTAG

Annotation:

Sal1: hypothetical protein (BCV75_05950) (actual pos 1310145, within 1309113-1310302, minus)
Sal2: hypothetical protein (BC375_06015) (actual pos 1310272, within 1309240-1310430, minus)
deDo: hypothetical protein (B9J09_06405) (actual pos 1310224, within 1309192-1310382, minus)

Region 183 (indel): 1312397 (shown from 1312392 to 1312403)

Sequence:

Sal1: TCCCC-ACAGAC
Sal2: TCCCCACAGAC
deDo: TCCCCACAGAC

Annotation:

Sal1: hypothetical protein (BCV75_05970) (actual pos 1312167, within 1311885-1313044, minus)
Sal2: hypothetical protein (BC375_06035) (actual pos 1312295, within 1312013-1313173, minus)
deDo: hypothetical protein (B9J09_06425) (actual pos 1312247, within 1311965-1313269, minus)

Region 184 (indel): 1314313 (shown from 1314308 to 1314319)

Sequence:

Sal1: GCCCC-GGGAAT
Sal2: GCCCCGGGAAT

deDo: GCCCCCGGGAAT

Annotation:

Sal1: hypothetical protein (BCV75_05975) (actual pos 1314082, within 1313269-1314818, minus)

Sal2: hypothetical protein (BC375_06040) (actual pos 1314211, within 1313398-1314948, minus)

deDo: hypothetical protein (B9J09_06430) (actual pos 1314163, within 1313350-1314900, minus)

Region 185 (indel): 1315475 (shown from 1315470 to 1315481)

Sequence:

Sal1: AAAAAA-CTAAAA

Sal2: AAAAAA-CTAAAA

deDo: AAAAAA-CTAAAA

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 186 (indel): 1317037 (shown from 1317032 to 1317043)

Sequence:

Sal1: AAAAAA-GCCCTG

Sal2: AAAAAA-GCCCTG

deDo: AAAAAA-GCCCTG

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 187 (indel): 1318138 (shown from 1318133 to 1318144)

Sequence:

Sal1: CCCCC-GCACGC

Sal2: CCCCCGCACGC

deDo: CCCCCGCACGC

Annotation:

Sal1: hypothetical protein (BCV75_06015) (actual pos 1317904, within 1317725-1318421, minus)

Sal2: hypothetical protein (BC375_06075) (actual pos 1318036, within 1317857-1318555, minus)

deDo: hypothetical protein (B9J09_06470) (actual pos 1317988, within 1317809-1318507, minus)

Region 188 (indel): 1318185 (shown from 1318180 to 1318191)

Sequence:

Sal1: CCCCC-GGCCAT

Sal2: CCCCCCGGCCAT

deDo: CCCCCCGGCCAT

Annotation:

Sal1: hypothetical protein (BCV75_06015) (actual pos 1317950, within 1317725-1318421, minus)

Sal2: hypothetical protein (BC375_06075) (actual pos 1318083, within 1317857-1318555, minus)

deDo: hypothetical protein (B9J09_06470) (actual pos 1318035, within 1317809-1318507, minus)

Region 189 (indel): 1325781 (shown from 1325776 to 1325787)

Sequence:

Sal1: CCCCC-ACAGCA

Sal2: CCCCCACAGCA

deDo: CCCCCACAGCA

Annotation:

Sal1: hypothetical protein (BCV75_06075) (actual pos 1325545, within 1325241-1325972, plus)

Sal2: hypothetical protein (BC375_06135) (actual pos 1325679, within 1325375-1325854, plus)

deDo: hypothetical protein (B9J09_06535) (actual pos 1325631, within 1325327-1325806, plus)

Region 190 (indel): 1342022 (shown from 1342017 to 1342028)

Sequence:

Sal1: CCCCC-TCATCG

Sal2: CCCCCCTCATCG

deDo: CCCCCCTCATCG

Annotation:

Sal1: hypothetical protein (BCV75_06175) (actual pos 1341785, within 1340950-1344254, minus)

Sal2: hypothetical protein (BC375_06240) (actual pos 1341920, within 1341085-1344390, minus)

deDo: hypothetical protein (B9J09_06650) (actual pos 1341872, within 1341037-1344342, minus)

Region 191 (indel): 1351577 (shown from 1351572 to 1351583)

Sequence:

Sal1: TCAAA-CGCCCT

Sal2: TCAAAACGCCCT

deDo: TCAAAACGCCCT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 192 (indel): 1377106 (shown from 1377101 to 1377112)

Sequence:
Sal1: GGGGG-AATTA
Sal2: GGGGGGAATTA
deDo: GGGGGGAATTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 193 (indel): 1393639 (shown from 1393634 to 1393645)

Sequence:
Sal1: GGGGG-ATGGGC
Sal2: GGGGGGATGGGC
deDo: GGGGGGATGGGC

Annotation:
Sal1: hypothetical protein (BCV75_06440) (actual pos 1393399, within 1393036-1393805, minus)
Sal2: hypothetical protein (BC375_06505) (actual pos 1393537, within 1393174-1393944, minus)
deDo: hypothetical protein (B9J09_06925) (actual pos 1393489, within 1393126-1393896, minus)

Region 194 (indel): 1397234 (shown from 1397229 to 1397240)

Sequence:
Sal1: CGGGG-TCTTGA
Sal2: CGGGG-TCTTGA
deDo: CGGGGTCTTGA

Annotation:
Sal1: hypothetical protein (BCV75_06455) (actual pos 1396993, within 1396812-1397233, minus)
Sal2: hypothetical protein (BC375_06520) (actual pos 1397132, within 1396951-1397372, minus)
deDo: hypothetical protein (B9J09_06940) (actual pos 1397084, within 1396903-1397325, minus)

Region 195 (indel): 1397575 (shown from 1397570 to 1397581)

Sequence:
Sal1: GGGGGTGGTGA
Sal2: GGGGG-TGGTGA
deDo: GGGGGTGGTGA

Annotation:
Sal1: hypothetical protein (BCV75_06460) (actual pos 1397333, within 1397230-1397667, minus)

Sal2: hypothetical protein (BC375_06525) (actual pos 1397472, within 1397369-1397805, minus)
deDo: hypothetical protein (B9J09_06945) (actual pos 1397425, within 1397322-1397759, minus)

Region 196 (indel): 1398584 (shown from 1398579 to 1398590)

Sequence:
Sal1: TTTTAAAGTC
Sal2: TTTT-AAAGTC
deDo: TTTTAAAGTC

Annotation:
Sal1: hypothetical protein (BCV75_06465) (actual pos 1398342, within 1397677-1399173, minus)
Sal2: hypothetical protein (BC375_06530) (actual pos 1398480, within 1397815-1399310, minus)
deDo: hypothetical protein (B9J09_06950) (actual pos 1398434, within 1397769-1399265, minus)

Region 197 (indel): 1399843 (shown from 1399838 to 1399849)

Sequence:
Sal1: AGGGGCGGCTT
Sal2: AGGGG-CGGCTT
deDo: AGGGGCGGCTT

Annotation:
Sal1: hypothetical protein (BCV75_06470) (actual pos 1399601, within 1399174-1399677, minus)
Sal2: hypothetical protein (BC375_06535) (actual pos 1399738, within 1399311-1399813, minus)
deDo: hypothetical protein (B9J09_06955) (actual pos 1399693, within 1399266-1399736, minus)

Region 198 (indel): 1400337 (shown from 1400332 to 1400343)

Sequence:
Sal1: GGGGGCAAGAT
Sal2: GGGGG-CAAGAT
deDo: GGGGGCAAGAT

Annotation:
Sal1: hypothetical protein (BCV75_06480) (actual pos 1400095, within 1399986-1400465, minus)
Sal2: no gene
deDo: hypothetical protein (B9J09_06965) (actual pos 1400187, within 1400078-1400557, minus)

Region 199 (indel): 1400472 (shown from 1400467 to 1400478)

Sequence:

Sal1: ATTTTCTTGAT
Sal2: ATTTT-CTTGAT
deDo: ATTTTCTTGAT

Annotation:

Sal1: hypothetical protein (BCV75_06480) (actual pos 1400230, within 1399986-1400465, minus)
Sal2: no gene
deDo: hypothetical protein (B9J09_06965) (actual pos 1400322, within 1400078-1400557, minus)

Region 200 (indel): 1400601 (shown from 1400596 to 1400607)

Sequence:

Sal1: GCGCGCAGGAA
Sal2: GCGCG-CAGGAA
deDo: GCGCGCAGGAA

Annotation:

Sal1: hypothetical protein (BCV75_06480) (actual pos 1400359, within 1399986-1400465, minus)
Sal2: no gene
deDo: hypothetical protein (B9J09_06965) (actual pos 1400451, within 1400078-1400557, minus)

Region 201 (indel): 1400671 (shown from 1400666 to 1400677)

Sequence:

Sal1: CTTTTGGGATC
Sal2: CTTTT-GGGATC
deDo: CTTTTGGGATC

Annotation:

Sal1: hypothetical protein (BCV75_06480) (actual pos 1400429, within 1399986-1400465, minus)
Sal2: no gene
deDo: hypothetical protein (B9J09_06965) (actual pos 1400521, within 1400078-1400557, minus)

Region 202 (indel): 1400711 (shown from 1400706 to 1400717)

Sequence:

Sal1: ATGGGGCAACCA
Sal2: ATGGG-CAACCA
deDo: ATGGGGCAACCA

Annotation:

Sal1: hypothetical protein (BCV75_06485) (actual pos 1400469, within 1400462-1400830, minus)
Sal2: hypothetical protein (BC375_06545) (actual pos 1400601, within 1400599-1400960, minus)
deDo: hypothetical protein (B9J09_06970) (actual pos 1400561, within 1400554-1400922, minus)

Region 203 (indel): 1400973 (shown from 1400968 to 1400979)

Sequence:

Sal1: CCAGGGATGGGC
Sal2: CCAGG-ATGGGC
deDo: CCAGGGATGGGC

Annotation:

Sal1: hypothetical protein (BCV75_06485) (actual pos 1400731, within 1400462-1400830, minus)
Sal2: hypothetical protein (BC375_06545) (actual pos 1400862, within 1400599-1400960, minus)
deDo: hypothetical protein (B9J09_06970) (actual pos 1400823, within 1400554-1400922, minus)

Region 204 (indel): 1401132 (shown from 1401127 to 1401138)

Sequence:

Sal1: GTCCCCGGAAGG
Sal2: GTCCC-GGAAGG
deDo: GTCCCCGGAAGG

Annotation:

Sal1: hypothetical protein (BCV75_06490) (actual pos 1400890, within 1400830-1401183, minus)
Sal2: hypothetical protein (BC375_06550) (actual pos 1401020, within 1400960-1401311, minus)
deDo: hypothetical protein (B9J09_06975) (actual pos 1400982, within 1400922-1401275, minus)

Region 205 (indel): 1401204 (shown from 1401199 to 1401210)

Sequence:

Sal1: GGGGGCTGTGC
Sal2: GGGGG-CTGTGC
deDo: GGGGGCTGTGC

Annotation:

Sal1: hypothetical protein (BCV75_06490) (actual pos 1400962, within 1400830-1401183, minus)
Sal2: hypothetical protein (BC375_06550) (actual pos 1401091, within 1400960-1401311, minus)
deDo: hypothetical protein (B9J09_06975) (actual pos 1401054, within 1400922-1401275, minus)

Region 206 (indel): 1401451 (shown from 1401446 to 1401457)

Sequence:

Sal1: AAAAAAGCGCCT
Sal2: AAAAA-GCGCCT
deDo: AAAAAAGCGCCT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 207 (indel): 1401641 (shown from 1401636 to 1401647)

Sequence:
Sal1: GTGGGGTTCTTG
Sal2: GTGGG-TTCTTG
deDo: GTGGGGTTCTTG

Annotation:
Sal1: hypothetical protein (BCV75_06495) (actual pos 1401399, within 1401249-1402232, minus)
Sal2: hypothetical protein (BC375_06555) (actual pos 1401526, within 1401376-1402358, minus)
deDo: hypothetical protein (B9J09_06980) (actual pos 1401491, within 1401341-1402324, minus)

Region 208 (indel): 1402521 (shown from 1402516 to 1402527)

Sequence:
Sal1: CGGGGGCGGTGG
Sal2: CGGGG-CGGTGG
deDo: CGGGGGCGGTGG

Annotation:
Sal1: hypothetical protein (BCV75_06500) (actual pos 1402279, within 1402242-1402724, minus)
Sal2: hypothetical protein (BC375_06560) (actual pos 1402405, within 1402368-1402848, minus)
deDo: hypothetical protein (B9J09_06985) (actual pos 1402371, within 1402334-1402816, minus)

Region 209 (indel): 1402604 (shown from 1402599 to 1402610)

Sequence:
Sal1: GCCCCGTTCCC
Sal2: GCCCC-GTTCCC
deDo: GCCCCCGTTCCC

Annotation:
Sal1: hypothetical protein (BCV75_06500) (actual pos 1402362, within 1402242-1402724, minus)
Sal2: hypothetical protein (BC375_06560) (actual pos 1402487, within 1402368-1402848, minus)
deDo: hypothetical protein (B9J09_06985) (actual pos 1402454, within 1402334-1402816, minus)

Region 210 (indel): 1403475 (shown from 1403470 to 1403481)

Sequence:
Sal1: TGGGGGCCTGGG
Sal2: TGGGG-CCTGGG
deDo: TGGGGGCCTGGG

Annotation:
Sal1: hypothetical protein (BCV75_06505) (actual pos 1403233, within 1402752-1403942, minus)
Sal2: hypothetical protein (BC375_06565) (actual pos 1403357, within 1402876-1404062, minus)
deDo: hypothetical protein (B9J09_06990) (actual pos 1403325, within 1402844-1404034, minus)

Region 211 (indel): 1403624 (shown from 1403619 to 1403630)

Sequence:
Sal1: ATGGGGTGTCT
Sal2: ATGGG-TGTCT
deDo: ATGGGGTGTCT

Annotation:
Sal1: hypothetical protein (BCV75_06505) (actual pos 1403382, within 1402752-1403942, minus)
Sal2: hypothetical protein (BC375_06565) (actual pos 1403505, within 1402876-1404062, minus)
deDo: hypothetical protein (B9J09_06990) (actual pos 1403474, within 1402844-1404034, minus)

Region 212 (indel): 1403644 (shown from 1403639 to 1403650)

Sequence:
Sal1: TGGGGGTAAGGC
Sal2: TGGGG-TAAGGC
deDo: TGGGGGTAAGGC

Annotation:
Sal1: hypothetical protein (BCV75_06505) (actual pos 1403402, within 1402752-1403942, minus)
Sal2: hypothetical protein (BC375_06565) (actual pos 1403524, within 1402876-1404062, minus)
deDo: hypothetical protein (B9J09_06990) (actual pos 1403494, within 1402844-1404034, minus)

Region 213 (indel): 1404026 (shown from 1404021 to 1404032)

Sequence:
Sal1: GGGGGCGGTAG
Sal2: GGGGG-CGGTAG
deDo: GGGGGCGGTAG

Annotation:
Sal1: hypothetical protein (BCV75_06505) (actual pos 1403784, within 1402752-1403942, minus)
Sal2: hypothetical protein (BC375_06565) (actual pos

1403905, within 1402876-1404062, minus)
deDo: hypothetical protein (B9J09_06990) (actual pos
1403876, within 1402844-1404034, minus)

Region 214 (indel): 1411837 (shown from 1411832 to
1411843)

Sequence:
Sal1: CCCCCCGGCCAT
Sal2: CCCCC-GGCCAT
deDo: CCCCCCGGCCAT

Annotation:
Sal1: hypothetical protein (BCV75_06570) (actual pos
1411595, within 1411369-1412067, minus)
Sal2: hypothetical protein (BC375_06625) (actual pos
1411715, within 1411489-1412186, minus)
deDo: hypothetical protein (B9J09_07055) (actual pos
1411687, within 1411461-1412159, minus)

Region 215 (indel): 1414094-1414107 (shown from 1414089
to 1414113)

Sal1: TCTGGGGTCTGGGGTCTGGTGGGCT
Sal2: TCTGGGGTCTGGGGTCTGGTGGGCT
deDo: TCTGG-----TGGGCT

Annotation:
Sal1: hypothetical protein (BCV75_06585) (actual pos
1413852, within 1413324-1414316, minus)
Sal2: hypothetical protein (BC375_06640) (actual pos
1413971, within 1413443-1414435, minus)
deDo: hypothetical protein (B9J09_07070) (actual pos
1413944, within 1413416-1414394, minus)

Region 216 (indel): 1418308-1418331 (shown from 1418303
to 1418337)

Sal1: GATCA-----GGAATG
Sal2: GATCACAGGATCACAGGATCACAGGATCAG-
GAATG
deDo: GATCACAGGATCACAGGATCACAGGATCAG-
GAATG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 217 (indel): 1428721 (shown from 1428716 to
1428727)

Sequence:
Sal1: AAAAA-TAAATA
Sal2: AAAAAATAAATA
deDo: AAAAAATAAATA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 218 (indel): 1471451 (shown from 1471446 to
1471457)

Sequence:
Sal1: GGGGG-AATAGG
Sal2: GGGGGGAATAGG
deDo: GGGGGGAATAGG

Annotation:
Sal1: YggW family oxidoreductase (BCV75_06800) (actual
pos 1471184, within 1470248-1471404, minus)
Sal2: YggW family oxidoreductase (BC375_06860) (actual
pos 1471328, within 1470392-1471549, minus)
deDo: YggW family oxidoreductase (B9J09_07305) (actual
pos 1471287, within 1470351-1471502, minus)

Region 219 (indel): 1492397 (shown from 1492392 to
1492403)

Sequence:
Sal1: AAAAA-TCGAAT
Sal2: AAAAA-TCGAAT
deDo: AAAAAATCGAAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 220 (indel): 1500387 (shown from 1500382 to
1500393)

Sequence:
Sal1: CCCCC-AACGCA
Sal2: CCCCC-AACGCA
deDo: CCCCCAACGCA

Annotation:
Sal1: tyrosine recombinase XerC (BCV75_06910) (actual
pos 1500118, within 1499694-1500577, minus)
Sal2: tyrosine recombinase XerC (BC375_06970) (actual pos
1500263, within 1499839-1500722, minus)
deDo: tyrosine recombinase XerC (B9J09_07415) (actual
pos 1500223, within 1499799-1500683, minus)

Region 221 (indel): 1522016 (shown from 1522011 to
1522022)

Sequence:
Sal1: GGGGG-AGGTCA
Sal2: GGGGGGAGGTCA
deDo: GGGGGGAGGTCA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 222 (indel): 1543788 (shown from 1543783 to 1543794)

Sequence:
Sal1: CCCCC-TACGCA
Sal2: CCCCCCTACGCA
deDo: CCCCCCTACGCA

Annotation:
Sal1: NUDIX hydrolase (BCV75_07100) (actual pos 1543517, within 1543145-1543602, plus)
Sal2: NUDIX hydrolase (BC375_07160) (actual pos 1543663, within 1543291-1543749, plus)
deDo: NUDIX hydrolase (B9J09_07615) (actual pos 1543624, within 1543252-1543710, plus)

Region 223 (indel): 1557331 (shown from 1557326 to 1557337)

Sequence:
Sal1: AGGGGGCTGAGA
Sal2: AGGGG-CTGAGA
deDo: AGGGGGCTGAGA

Annotation:
Sal1: disulfide bond formation protein DsbC (BCV75_07160) (actual pos 1557059, within 1556275-1557063, plus)
Sal2: no gene
deDo: disulfide bond formation protein DsbC (B9J09_07680) (actual pos 1557167, within 1556383-1557171, plus)

Region 224 (indel): 1559373 (shown from 1559368 to 1559379)

Sequence:
Sal1: CCCCC-GTCAGG
Sal2: CCCCC-GTCAGG
deDo: CCCCCCGTCAGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: phosphoribosylformylglycinamide synthase (B9J09_07685) (actual pos 1559209, within 1557368-1561336, plus)

Region 225 (indel): 1565783 (shown from 1565778 to 1565789)

Sequence:
Sal1: CCCCCCATCAAA
Sal2: CCCCC-ATCAAA
deDo: CCCCCCATCAAA

Annotation:
Sal1: BolA family transcriptional regulator (BCV75_07210) (actual pos 1565510, within 1565456-1565683, minus)
Sal2: BolA family transcriptional regulator (BC375_07270) (actual pos 1565656, within 1565602-1565828, minus)
deDo: BolA family transcriptional regulator (B9J09_07725) (actual pos 1565619, within 1565565-1565792, minus)

Region 226 (indel): 1578449 (shown from 1578444 to 1578455)

Sequence:
Sal1: CCCCCAGCCGA
Sal2: CCCCC-AGCCGA
deDo: CCCCCAGCCGA

Annotation:
Sal1: sodium:proton antiporter (BCV75_07285) (actual pos 1578176, within 1578100-1579313, minus)
Sal2: sodium:proton antiporter (BC375_07345) (actual pos 1578321, within 1578245-1579457, minus)
deDo: sodium:proton antiporter (B9J09_07800) (actual pos 1578285, within 1578209-1579422, minus)

Region 227 (indel): 1592188 (shown from 1592183 to 1592194)

Sequence:
Sal1: CCCCC-ACTGCT
Sal2: CCCCC-ACTGCT
deDo: CCCCCACTGCT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 228 (indel): 1595065 (shown from 1595060 to 1595071)

Sequence:
Sal1: CCCCC-TTCGCC
Sal2: CCCCCCTTCGCC
deDo: CCCCCCTTCGCC

Annotation:
Sal1: ATP-dependent helicase (BCV75_07340) (actual pos 1594791, within 1593430-1597829, minus)
Sal2: ATP-dependent helicase (BC375_07400) (actual pos 1594935, within 1593574-1597974, minus)
deDo: ATP-dependent helicase (B9J09_07855) (actual pos

1594901, within 1593540-1597940, minus)

Region 229 (indel): 1608588 (shown from 1608583 to 1608594)

Sequence:

Sal1: GGGGG-CCAGGC
Sal2: GGGGGGCCAGGC
deDo: GGGGGGCCAGGC

Annotation:

Sal1: TspA protein (BCV75_07390) (actual pos 1608313, within 1608157-1609951, minus)
Sal2: TspA protein (BC375_07450) (actual pos 1608458, within 1608302-1610098, minus)
deDo: TspA protein (B9J09_07905) (actual pos 1608424, within 1608268-1610064, minus)

Region 230 (indel): 1609718 (shown from 1609713 to 1609724)

Sequence:

Sal1: AGGGG-AGGGGG
Sal2: AGGGGGAGGGGG
deDo: AGGGGGAGGGGG

Annotation:

Sal1: TspA protein (BCV75_07390) (actual pos 1609442, within 1608157-1609951, minus)
Sal2: TspA protein (BC375_07450) (actual pos 1609588, within 1608302-1610098, minus)
deDo: TspA protein (B9J09_07905) (actual pos 1609554, within 1608268-1610064, minus)

Region 231 (indel): 1616136 (shown from 1616131 to 1616142)

Sequence:

Sal1: CCCCC-AAGCAA
Sal2: CCCCCAAGCAA
deDo: CCCCCAAGCAA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 232 (indel): 1622710 (shown from 1622705 to 1622716)

Sequence:

Sal1: CCCCCAGGGCA
Sal2: CCCCC-AGGGCA
deDo: CCCCCAGGGCA

Annotation:

Sal1: cytochrome oxidase assembly protein (BCV75_07445) (actual pos 1622432, within 1621988-1623151, minus)

Sal2: cytochrome oxidase assembly protein (BC375_07505) (actual pos 1622580, within 1622136-1623298, minus)

deDo: heme A synthase (B9J09_07965) (actual pos 1622546, within 1622102-1623265, minus)

Region 233 (indel): 1635868 (shown from 1635863 to 1635874)

Sequence:

Sal1: TGCCC-TGAACA
Sal2: TGCCCCTGAACA
deDo: TGCCCCTGAACA

Annotation:

Sal1: no gene
Sal2: sulfate ABC transporter permease subunit CysW (BC375_07550) (actual pos 1635737, within 1634819-1635778, minus)
deDo: sulfate ABC transporter permease subunit CysW (B9J09_08010) (actual pos 1635704, within 1634786-1635745, minus)

Region 234 (indel): 1639633 (shown from 1639628 to 1639639)

Sequence:

Sal1: ACCCCCACCACC
Sal2: ACCCC-ACCACC
deDo: ACCCCCACCACC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 235 (indel): 1651069 (shown from 1651064 to 1651075)

Sequence:

Sal1: AGGGG-AACTGG
Sal2: AGGGGGA ACTGG
deDo: AGGGGGA ACTGG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 236 (indel): 1664488 (shown from 1664483 to 1664494)

Sequence:

Sal1: AAAAA-GACAAA
Sal2: AAAAAAGACAAA

deDo: AAAAAAGACAAA

Annotation:

Sal1: rod shape-determining protein RodA (BCV75_07625) (actual pos 1664208, within 1664040-1665160, minus)

Sal2: rod shape-determining protein RodA (BC375_07685) (actual pos 1664356, within 1664188-1665309, minus)

deDo: rod shape-determining protein RodA (B9J09_08155) (actual pos 1664324, within 1664156-1665277, minus)

Region 237 (indel): 1700743 (shown from 1700738 to 1700749)

Sequence:

Sal1: GGGGG-TTGATA

Sal2: GGGGGGTTGATA

deDo: GGGGGGTTGATA

Annotation:

Sal1: hypothetical protein (BCV75_07785) (actual pos 1700462, within 1700033-1700835, plus)

Sal2: hypothetical protein (BC375_07850) (actual pos 1700611, within 1700182-1700985, plus)

deDo: hypothetical protein (B9J09_08330) (actual pos 1700579, within 1700150-1700953, plus)

Region 238 (indel): 1725608 (shown from 1725603 to 1725614)

Sequence:

Sal1: CCCCC-ACTTTT

Sal2: CCCCCCACTTTT

deDo: CCCCCCACTTTT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 239 (indel): 1727414 (shown from 1727409 to 1727420)

Sequence:

Sal1: CCCCCCGCGATC

Sal2: CCCCC-GCGATC

deDo: CCCCCCGCGATC

Annotation:

Sal1: no gene

Sal2: no gene

deDo: hypothetical protein (B9J09_08430) (actual pos 1727250, within 1726951-1727392, minus)

Region 240 (indel): 1738459 (shown from 1738454 to 1738465)

Sequence:

Sal1: TTTTT-GTTTTT

Sal2: TTTTTTGTTTTT

deDo: TTTTTTGTTTTT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 241 (indel): 1738489 (shown from 1738484 to 1738495)

Sequence:

Sal1: TTTTT-GTTGTT

Sal2: TTTTTTGTTGTT

deDo: TTTTTTGTTGTT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 242 (subst): 1739071 (shown from 1739066 to 1739077)

Sequence:

Sal1: CTGGACGCTTCA

Sal2: CTGGACGCTTCA

deDo: CTGGATGCTTCA

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 243 (subst): 1739145 (shown from 1739140 to 1739151)

Sequence:

Sal1: TGCGAAATTGGT

Sal2: TGCGAAATTGGT

deDo: TGCGAGATCGGT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 244 (subst): 1739148 (shown from 1739143 to 1739154)

Sequence:

Sal1: GAAATTGGTGAG

Sal2: GAAATTGGTGAG

deDo: GAGATCGGTGAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 245 (subst): 1739203 (shown from 1739198 to 1739209)

Sequence:
Sal1: ATGCAGTTGCTA
Sal2: ATGCAGTTGCTA
deDo: ATGCAATTGCTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 246 (subst): 1739214 (shown from 1739209 to 1739220)

Sequence:
Sal1: AGTGCAAGTTAT
Sal2: AGTGCAAGTTAT
deDo: AGTGCCAGTTAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 247 (subst): 1739248 (shown from 1739243 to 1739254)

Sequence:
Sal1: TGAAGGATAGTA
Sal2: TGAAGGATAGTA
deDo: TGAAGAATAGTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 248 (indel): 1748653 (shown from 1748648 to 1748659)

Sequence:
Sal1: CCCCC-GGACAT
Sal2: CCCCCGGACAT
deDo: CCCCCGGACAT

Annotation:
Sal1: pathogenicity protein (BCV75_07975) (actual pos 1748368, within 1745832-1749652, minus)

Sal2: pathogenicity protein (BC375_08035) (actual pos 1748520, within 1745984-1749805, minus)
deDo: pathogenicity protein (B9J09_08570) (actual pos 1748489, within 1745953-1749774, minus)

Region 249 (indel): 1757270 (shown from 1757265 to 1757276)

Sequence:
Sal1: CCCCCCAAACC
Sal2: CCCCC-AAAACC
deDo: CCCCCCAAACC

Annotation:
Sal1: hypothetical protein (BCV75_08000) (actual pos 1756984, within 1756832-1757323, plus)
Sal2: hypothetical protein (BC375_08060) (actual pos 1757137, within 1756985-1757475, plus)
deDo: hypothetical protein (B9J09_08600) (actual pos 1757106, within 1756954-1757445, plus)

Region 250 (indel): 1757763 (shown from 1757758 to 1757769)

Sequence:
Sal1: AAAAA-TGTCAG
Sal2: AAAAAATGTCAG
deDo: AAAAAATGTCAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 251 (subst): 1758632 (shown from 1758627 to 1758638)

Sequence:
Sal1: CATGCTCCCCGT
Sal2: CATGCTCCCCGT
deDo: CATGCGCCCCGT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 252 (subst): 1758642 (shown from 1758637 to 1758648)

Sequence:
Sal1: GTGGAACGCTCA
Sal2: GTGGAACGCTCA
deDo: GTGAGCGCTCA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 253 (subst): 1759302 (shown from 1759297 to 1759308)

Sequence:
Sal1: GCACCCACGTAA
Sal2: GCACCCACGTAA
deDo: GCACCTACGTAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 254 (subst): 1759308 (shown from 1759303 to 1759314)

Sequence:
Sal1: ACGTAAACCACC
Sal2: ACGTAAACCACC
deDo: ACGTAGACCACT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 255 (subst): 1759314 (shown from 1759309 to 1759320)

Sequence:
Sal1: ACCACCGGGGCA
Sal2: ACCACCGGGGCA
deDo: ACCACTGGTAGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 256 (subst): 1759317-1759320 (shown from 1759312 to 1759326)

Sal1: ACCGGGGCACGGTTG
Sal2: ACCGGGGCACGGTTG
deDo: ACTGGTAGCCGGTTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 257 (subst): 1759333 (shown from 1759328 to

1759339)

Sequence:
Sal1: CCTGCTGGGCGA
Sal2: CCTGCTGGGCGA
deDo: CCTGCCGAGCGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 258 (subst): 1759335 (shown from 1759330 to 1759341)

Sequence:
Sal1: TGCTGGGCGACG
Sal2: TGCTGGGCGACG
deDo: TGCCGAGCGGCG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 259 (subst): 1759339 (shown from 1759334 to 1759345)

Sequence:
Sal1: GGGCGACGAACG
Sal2: GGGCGACGAACG
deDo: GAGCGGCGAACG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 260 (subst): 1759348 (shown from 1759343 to 1759354)

Sequence:
Sal1: ACGCGGCATAGG
Sal2: ACGCGGCATAGG
deDo: ACGCGGCATAGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 261 (subst): 1759452 (shown from 1759447 to 1759458)

Sequence:
Sal1: CCGCTACGGATG

Sal2: CCGCTACGGATG
deDo: CCGCTGCGGATG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 262 (indel): 1761953 (shown from 1761948 to 1761959)

Sequence:
Sal1: AAAAA-GAAAGA
Sal2: AAAAAAGAAAGA
deDo: AAAAAAGAAAGA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 263 (indel): 1767961 (shown from 1767956 to 1767967)

Sequence:
Sal1: AAAAA-TAAAAG
Sal2: AAAAAATAAAAG
deDo: AAAAAATAAAAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 264 (indel): 1768228 (shown from 1768223 to 1768234)

Sequence:
Sal1: GAAAA-GCCTAT
Sal2: GAAAAAGCCTAT
deDo: GAAAAAGCCTAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: hypothetical protein (B9J09_08635) (actual pos 1768064, within 1767966-1768271, minus)

Region 265 (indel): 1772314 (shown from 1772309 to 1772320)

Sequence:
Sal1: CCCCC-GAATAT
Sal2: CCCCCGAATAT
deDo: CCCCCGAATAT

Annotation:
Sal1: GTP-binding protein TypA (BCV75_08045) (actual pos 1772024, within 1771172-1773000, minus)
Sal2: GTP-binding protein TypA (BC375_08100) (actual pos 1772180, within 1771328-1773157, minus)
deDo: translational GTPase TypA (B9J09_08655) (actual pos 1772150, within 1771298-1773127, minus)

Region 266 (indel): 1775605 (shown from 1775600 to 1775611)

Sequence:
Sal1: CCCCCCAAAGAG
Sal2: CCCCC-AAAGAG
deDo: CCCCCCAAAGAG

Annotation:
Sal1: glutathione S-transferase (BCV75_08060) (actual pos 1775314, within 1775027-1775644, minus)
Sal2: glutathione S-transferase (BC375_08115) (actual pos 1775471, within 1775184-1775800, minus)
deDo: glutathione S-transferase (B9J09_08670) (actual pos 1775441, within 1775154-1775771, minus)

Region 267 (indel): 1780224-1780241 (shown from 1780219 to 1780247)

Sal1: GCTAC-----CAACAT
Sal2: GCTACTGCTAC-----CAACAT
deDo: GCTACTGCTACTGCTACTGCTACCAACAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: hypothetical protein (B9J09_08705) (actual pos 1780060, within 1779857-1780105, minus)

Region 268 (indel): 1786966 (shown from 1786961 to 1786972)

Sequence:
Sal1: GGGGG-CTGTAC
Sal2: GGGGGGCTGTAC
deDo: GGGGGGCTGTAC

Annotation:
Sal1: no gene
Sal2: hypothetical protein (BC375_08170) (actual pos 1786819, within 1786797-1787006, minus)
deDo: hypothetical protein (B9J09_08740) (actual pos 1786802, within 1786780-1786989, minus)

Region 269 (indel): 1797714 (shown from 1797709 to 1797720)

Sequence:
Sal1: CCCCC-GGCTAG

Sal2: CCCCCGGCTAG
deDo: CCCCCGGCTAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: ATP-dependent Clp protease proteolytic subunit (B9J09_08785) (actual pos 1797550, within 1796982-1797608, minus)

Region 270 (indel): 1800866 (shown from 1800861 to 1800872)

Sequence:
Sal1: AAAAA-GTTCCTA
Sal2: AAAAA-GTTCCTA
deDo: AAAAAAGTTCCTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 271 (indel): 1802066 (shown from 1802061 to 1802072)

Sequence:
Sal1: TAAAA-TATTCA
Sal2: TAAAAATATTCA
deDo: TAAAAATATTCA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 272 (indel): 1823871 (shown from 1823866 to 1823877)

Sequence:
Sal1: CAAAA-CATAGA
Sal2: CAAAAACATAGA
deDo: CAAAAACATAGA

Annotation:
Sal1: no gene
Sal2: 50S ribosomal protein L23 (BC375_08365) (actual pos 1823723, within 1823515-1823817, minus)
deDo: 50S ribosomal protein L23 (B9J09_08950) (actual pos 1823707, within 1823499-1823801, minus)

Region 273 (indel): 1831247 (shown from 1831242 to 1831253)

Sequence:
Sal1: ACCCCCTCCCTA

Sal2: ACCCC-TCCCTA
deDo: ACCCCCTCCCTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 274 (indel): 1846115 (shown from 1846110 to 1846121)

Sequence:
Sal1: CCCCC-TATTCT
Sal2: CCCCC-TATTCT
deDo: CCCCCCTATTCT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: DUF3971 domain-containing protein (B9J09_09070) (actual pos 1845951, within 1845935-1849810, minus)

Region 275 (indel): 1862955 (shown from 1862950 to 1862961)

Sequence:
Sal1: AAAAA-CTGAGC
Sal2: AAAAAACTGAGC
deDo: AAAAAACTGAGC

Annotation:
Sal1: enoyl-CoA hydratase (BCV75_08460) (actual pos 1862640, within 1861766-1862662, plus)
Sal2: enoyl-CoA hydratase (BC375_08530) (actual pos 1862805, within 1861931-1862809, plus)
deDo: enoyl-CoA hydratase (B9J09_09120) (actual pos 1862791, within 1861917-1862795, plus)

Region 276 (indel): 1874657 (shown from 1874652 to 1874663)

Sequence:
Sal1: CCCCC-AAGATC
Sal2: CCCCC-AAGATC
deDo: CCCCCAAGATC

Annotation:
Sal1: carbamoyl phosphate synthase large subunit (BCV75_08500) (actual pos 1874341, within 1872793-1876034, minus)
Sal2: carbamoyl phosphate synthase large subunit (BC375_08570) (actual pos 1874507, within 1872959-1876200, minus)
deDo: carbamoyl phosphate synthase large subunit () (actual pos 1874493, within 1872945-1876187, minus)

Region 277 (indel): 1901293 (shown from 1901288 to 1901299)

Sequence:
Sal1: CAAAA-CAGAAC
Sal2: CAAAAACAGAAC
deDo: CAAAAACAGAAC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 278 (indel): 1918191 (shown from 1918186 to 1918197)

Sequence:
Sal1: TTTTT-CACCAC
Sal2: TTTTTTCACCAC
deDo: TTTTTTCACCAC

Annotation:
Sal1: UMP kinase (BCV75_08690) (actual pos 1917873, within 1917455-1918185, plus)
Sal2: UMP kinase (BC375_08760) (actual pos 1918040, within 1917622-1918353, plus)
deDo: UMP kinase (B9J09_09370) (actual pos 1918027, within 1917609-1918340, plus)

Region 279 (indel): 1921760 (shown from 1921755 to 1921766)

Sequence:
Sal1: GGGGG-CTTGTT
Sal2: GGGGGGCTTGTT
deDo: GGGGGGCTTGTT

Annotation:
Sal1: hypothetical protein (BCV75_08715) (actual pos 1921441, within 1920741-1922083, plus)
Sal2: hypothetical protein (BC375_08785) (actual pos 1921609, within 1920909-1922252, plus)
deDo: hypothetical protein (B9J09_09395) (actual pos 1921596, within 1920896-1922239, plus)

Region 280 (indel): 1922442 (shown from 1922437 to 1922448)

Sequence:
Sal1: ACCCCCAGAAGG
Sal2: ACCCC-AGAAGG
deDo: ACCCCCAGAAGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 281 (indel): 1927759 (shown from 1927754 to 1927765)

Sequence:
Sal1: GGGGG-CACCTA
Sal2: GGGGGGCACCTA
deDo: GGGGGGCACCTA

Annotation:
Sal1: RIP metalloprotease RseP (BCV75_08740) (actual pos 1927439, within 1926243-1927576, plus)
Sal2: RIP metalloprotease RseP (BC375_08810) (actual pos 1927607, within 1926411-1927745, plus)
deDo: RIP metalloprotease RseP (B9J09_09420) (actual pos 1927595, within 1926399-1927733, plus)

Region 282 (indel): 1930459 (shown from 1930454 to 1930465)

Sequence:
Sal1: CGGGGGCAGCAT
Sal2: CGGGG-CAGCAT
deDo: CGGGGGCAGCAT

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 283 (indel): 1937661 (shown from 1937656 to 1937667)

Sequence:
Sal1: AAAAA-TAATTC
Sal2: AAAAAATAATTC
deDo: AAAAAATAATTC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 284 (indel): 1947576 (shown from 1947571 to 1947582)

Sequence:
Sal1: CCCCC-TCCCCC
Sal2: CCCCC-TCCCCC
deDo: CCCCCCTCCCCC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 285 (indel): 1952351 (shown from 1952346 to 1952357)

Sequence:
Sal1: CCCCC-TTTCAG
Sal2: CCCCC-TTTCAG
deDo: CCCCCCTTTCAG

Annotation:
Sal1: serine protease (BCV75_08810) (actual pos 1952028, within 1950727-1953730, minus)
Sal2: serine protease (BC375_08880) (actual pos 1952197, within 1950896-1953906, minus)
deDo: autotransporter domain-containing protein (B9J09_09500) (actual pos 1952187, within 1950886-1953885, minus)

Region 286 (indel): 1953123 (shown from 1953118 to 1953129)

Sequence:
Sal1: CCCCC-TCCACC
Sal2: CCCCCCTCCACC
deDo: CCCCCCTCCACC

Annotation:
Sal1: serine protease (BCV75_08810) (actual pos 1952799, within 1950727-1953730, minus)
Sal2: serine protease (BC375_08880) (actual pos 1952968, within 1950896-1953906, minus)
deDo: autotransporter domain-containing protein (B9J09_09500) (actual pos 1952959, within 1950886-1953885, minus)

Region 287 (subst): 1953853 (shown from 1953848 to 1953859)

Sequence:
Sal1: TCGGTATCGGTA
Sal2: TCGGTGTCGGTA
deDo: TCGGTATCGGTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 288 (subst): 1953871 (shown from 1953866 to 1953877)

Sequence:
Sal1: TCGGTGTCGGTA
Sal2: TCGGTATCGGTG
deDo: TCGGTGTCGGTA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 289 (subst): 1953877 (shown from 1953872 to 1953883)

Sequence:
Sal1: TCGGTATCGGTG
Sal2: TCGGTGTCGGTA
deDo: TCGGTATCGGTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 290 (subst): 1953883 (shown from 1953878 to 1953889)

Sequence:
Sal1: TCGGTGTCGGTA
Sal2: TCGGTATCGGTG
deDo: TCGGTGTCGGTA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 291 (subst): 1953889 (shown from 1953884 to 1953895)

Sequence:
Sal1: TCGGTATCGGTG
Sal2: TCGGTGTCGGTA
deDo: TCGGTATCGGTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 292 (subst): 1953895 (shown from 1953890 to 1953901)

Sequence:
Sal1: TCGGTGTCGGTG
Sal2: TCGGTATCGGTG
deDo: TCGGTGTCGGTG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 293 (indel): 1953960-1953974 (shown from 1953955 to 1953980)

Sal1: GTCGGTGTCGG---CGG---ACGAAC
Sal2: GTCGGTGTCGGTGTCGGCGGACGAAC
deDo: GTCGG-----CGGACGAAC

Annotation:

Sal1: serine protease (BCV75_08810) (actual pos 1953635, within 1950727-1953730, minus)
Sal2: serine protease (BC375_08880) (actual pos 1953805, within 1950896-1953906, minus)
deDo: autotransporter domain-containing protein (B9J09_09500) (actual pos 1953796, within 1950886-1953885, minus)

Region 294 (indel): 1961984 (shown from 1961979 to 1961990)

Sequence:

Sal1: CCCCC-TCCCCC
Sal2: CCCCCCTCCCCC
deDo: CCCCCCTCCCCC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 295 (indel): 1967615 (shown from 1967610 to 1967621)

Sequence:

Sal1: CCCCCGTATAA
Sal2: CCCCC-GTATAA
deDo: CCCCCGTATAA

Annotation:

Sal1: hypothetical protein (BCV75_08855) (actual pos 1967283, within 1966909-1967421, minus)
Sal2: hypothetical protein (BC375_08925) (actual pos 1967460, within 1967086-1967597, minus)
deDo: hypothetical protein (B9J09_09550) (actual pos 1967439, within 1967065-1967577, minus)

Region 296 (indel): 1968634 (shown from 1968629 to 1968640)

Sequence:

Sal1: CCCCC-GTATAA
Sal2: CCCCCGTATAA
deDo: CCCCCGTATAA

Annotation:

Sal1: hypothetical protein (BCV75_08870) (actual pos 1968302, within 1968239-1968436, minus)
Sal2: hypothetical protein (BC375_08935) (actual pos

1968478, within 1968113-1968613, minus)

deDo: hypothetical protein (B9J09_09560) (actual pos 1968458, within 1968093-1968593, minus)

Region 297 (indel): 1969883 (shown from 1969878 to 1969889)

Sequence:

Sal1: GGGGG-AGGGTG
Sal2: GGGGGGAGGGTG
deDo: GGGGGGAGGGTG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 298 (indel): 1969992 (shown from 1969987 to 1969998)

Sequence:

Sal1: TTTTT-GGCGAT
Sal2: TTTTTGGCGAT
deDo: TTTTTGGCGAT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 299 (indel): 1970008 (shown from 1970003 to 1970014)

Sequence:

Sal1: GGGGG-CAGGCG
Sal2: GGGGGCAGGCG
deDo: GGGGGCAGGCG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 300 (indel): 1971508 (shown from 1971503 to 1971514)

Sequence:

Sal1: GGGGG-CATCGA
Sal2: GGGGGCATCGA
deDo: GGGGGCATCGA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 301 (indel): 1972733 (shown from 1972728 to 1972739)

Sequence:

Sal1: GGGGG-ATGGGT
Sal2: GGGGGGATGGGT
deDo: GGGGGGATGGGT

Annotation:

Sal1: no gene
Sal2: glutamate 5-kinase (BC375_08955) (actual pos 1972577, within 1971467-1972621, minus)
deDo: glutamate 5-kinase (B9J09_09580) (actual pos 1972557, within 1971447-1972601, minus)

Region 302 (indel): 1972762 (shown from 1972757 to 1972768)

Sequence:

Sal1: GGGGG-AGGGGT
Sal2: GGGGGGAGGGGT
deDo: GGGGGGAGGGGT

Annotation:

Sal1: no gene
Sal2: glutamate 5-kinase (BC375_08955) (actual pos 1972606, within 1971467-1972621, minus)
deDo: glutamate 5-kinase (B9J09_09580) (actual pos 1972586, within 1971447-1972601, minus)

Region 303 (indel): 1974483 (shown from 1974478 to 1974489)

Sequence:

Sal1: GGGGG-CGATGA
Sal2: GGGGGGCGATGA
deDo: GGGGGGCGATGA

Annotation:

Sal1: N-acetyl-gamma-glutamyl-phosphate reductase (BCV75_08900) (actual pos 1974144, within 1973921-1974903, minus)
Sal2: N-acetyl-gamma-glutamyl-phosphate reductase (BC375_08965) (actual pos 1974327, within 1974104-1975087, minus)
deDo: N-acetyl-gamma-glutamyl-phosphate reductase (B9J09_09590) (actual pos 1974307, within 1974084-1975067, minus)

Region 304 (indel): 1977656 (shown from 1977651 to 1977662)

Sequence:

Sal1: GGGGG-TTGCGG
Sal2: GGGGGGTTGCGG
deDo: GGGGGGTTGCGG

Annotation:

Sal1: acetylornithine deacetylase (BCV75_08910) (actual pos 1977316, within 1976287-1977380, minus)
Sal2: acetylornithine deacetylase (BC375_08975) (actual pos 1977500, within 1976471-1977565, minus)
deDo: acetylornithine deacetylase (B9J09_09600) (actual pos 1977480, within 1976451-1977545, minus)

Region 305 (indel): 2014845 (shown from 2014840 to 2014851)

Sequence:

Sal1: CCCCCCTGAAAG
Sal2: CCCCC-TGAAAG
deDo: CCCCCCTGAAAG

Annotation:

Sal1: phosphate starvation-inducible protein PhoH (BCV75_09090) (actual pos 2014504, within 2014260-2015678, plus)
Sal2: phosphate starvation-inducible protein PhoH (BC375_09155) (actual pos 2014689, within 2014445-2015862, plus)
deDo: phosphate starvation-inducible protein PhoH (B9J09_09790) (actual pos 2014669, within 2014425-2015843, plus)

Region 306 (indel): 2030912 (shown from 2030907 to 2030918)

Sequence:

Sal1: CCCCCCAACCGT
Sal2: CCCCC-AACCGT
deDo: CCCCCCAACCGT

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 307 (indel): 2031469 (shown from 2031464 to 2031475)

Sequence:

Sal1: CCCCC-ATAAAT
Sal2: CCCCC-ATAAAT
deDo: CCCCCATAAAT

Annotation:

Sal1: multi-copper polyphenol oxidoreductase (BCV75_09170) (actual pos 2031128, within 2031027-2031808, minus)
Sal2: multi-copper polyphenol oxidoreductase (BC375_09235) (actual pos 2031311, within 2031210-2031991, minus)
deDo: multi-copper polyphenol oxidoreductase

(B9J09_09875) (actual pos 2031293, within 2031192-2031974, minus)

Region 308 (indel): 2037204-2037207 (shown from 2037199 to 2037213)

Sal1: AAGCAAGCACATCAT

Sal2: AAGCAAGCACATCAT

deDo: AAGCA---CATCAT

Annotation:

Sal1: hypothetical protein (BCV75_09200) (actual pos 2036862, within 2036725-2036906, plus)

Sal2: hypothetical protein (BC375_09265) (actual pos 2037045, within 2036908-2037089, plus)

deDo: no gene

Region 309 (indel): 2056592 (shown from 2056587 to 2056598)

Sequence:

Sal1: CCCCC-TTCCAT

Sal2: CCCCCCTTCCAT

deDo: CCCCCCTTCCAT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 310 (indel): 2057790 (shown from 2057785 to 2057796)

Sequence:

Sal1: CCCCC-AGCTAC

Sal2: CCCCC-AGCTAC

deDo: CCCCCAGCTAC

Annotation:

Sal1: transglycosylase (BCV75_09310) (actual pos 2057447, within 2056848-2057740, minus)

Sal2: transglycosylase (BC375_09375) (actual pos 2057631, within 2057032-2057924, minus)

deDo: transglycosylase (B9J09_10005) (actual pos 2057610, within 2057011-2057904, minus)

Region 311 (indel): 2059122 (shown from 2059117 to 2059128)

Sequence:

Sal1: ACCCC-TGGAAT

Sal2: ACCCCCTGGAAT

deDo: ACCCCCTGGAAT

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 312 (indel): 2065616 (shown from 2065611 to 2065622)

Sequence:

Sal1: CAAAA-CGACGT

Sal2: CAAAAACGACGT

deDo: CAAAAACGACGT

Annotation:

Sal1: hypothetical protein (BCV75_09350) (actual pos 2065271, within 2065200-2065379, plus)

Sal2: no gene

deDo: no gene

Region 313 (indel): 2069836 (shown from 2069831 to 2069842)

Sequence:

Sal1: GGGGG-CCACTG

Sal2: GGGGGGCCACTG

deDo: GGGGGGCCACTG

Annotation:

Sal1: hypothetical protein (BCV75_09380) (actual pos 2069490, within 2068713-2069560, minus)

Sal2: hypothetical protein (BC375_09440) (actual pos 2069676, within 2068899-2069747, minus)

deDo: hypothetical protein (B9J09_10070) (actual pos 2069656, within 2068879-2069727, minus)

Region 314 (indel): 2074793 (shown from 2074788 to 2074799)

Sequence:

Sal1: GGGGG-AGGCCA

Sal2: GGGGGGAGGCCA

deDo: GGGGGGAGGCCA

Annotation:

Sal1: hypothetical protein (BCV75_09410) (actual pos 2074446, within 2074322-2075128, plus)

Sal2: no gene

deDo: hemagglutinin (B9J09_10075) (actual pos 2074613, within 2069740-2079763, minus)

Region 315 (indel): 2086753 (shown from 2086748 to 2086759)

Sequence:

Sal1: CCCCC-ACAACG

Sal2: CCCCCACAACG

deDo: CCCCCACAACG

Annotation:

Sal1: penicillin-binding protein 1B (BCV75_09465) (actual pos 2086405, within 2084060-2086437, plus)
Sal2: penicillin-binding protein 1B (BC375_09525) (actual pos 2086593, within 2084248-2086626, plus)
deDo: penicillin-binding protein 1B (B9J09_10095) (actual pos 2086573, within 2084228-2086606, plus)

Region 316 (indel): 2092246 (shown from 2092241 to 2092252)

Sequence:
Sal1: CCCCC-ACCTCC
Sal2: CCCCCACCTCC
deDo: CCCCCACCTCC

Annotation:
Sal1: no gene
Sal2: glycosyl transferase family 1 (BC375_09550) (actual pos 2092086, within 2091010-2092122, minus)
deDo: glycosyl transferase family 1 (B9J09_10120) (actual pos 2092066, within 2090990-2092102, minus)

Region 317 (indel): 2095941 (shown from 2095936 to 2095947)

Sequence:
Sal1: GGGGG-ATTGGG
Sal2: GGGGG-ATTGGG
deDo: GGGGGATTGGG

Annotation:
Sal1: metal ABC transporter permease (BCV75_09505) (actual pos 2095591, within 2095026-2095732, plus)
Sal2: metal ABC transporter permease (BC375_09565) (actual pos 2095781, within 2095216-2095922, plus)
deDo: metal ABC transporter permease (B9J09_10145) (actual pos 2095761, within 2095196-2095903, plus)

Region 318 (indel): 2100560 (shown from 2100555 to 2100566)

Sequence:
Sal1: CCCCCCTACCA
Sal2: CCCCC-TCACCA
deDo: CCCCCCTACCA

Annotation:
Sal1: dihydrolipoyl dehydrogenase (BCV75_09525) (actual pos 2100209, within 2099955-2101766, plus)
Sal2: hypothetical protein (BC375_09585) (actual pos 2100399, within 2100145-2100612, plus)
deDo: dihydrolipoyl dehydrogenase (B9J09_10170) (actual pos 2100380, within 2100126-2101937, plus)

Region 319 (indel): 2118553 (shown from 2118548 to 2118559)

Sequence:
Sal1: CCCCC-TCAGCC
Sal2: CCCCCCTCAGCC
deDo: CCCCCCTCAGCC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 320 (indel): 2122181 (shown from 2122176 to 2122187)

Sequence:
Sal1: CCCCCACACAC
Sal2: CCCCC-ACACAC
deDo: CCCCCACACAC

Annotation:
Sal1: beta-hexosaminidase (BCV75_09605) (actual pos 2121829, within 2119400-2121838, plus)
Sal2: beta-hexosaminidase (BC375_09670) (actual pos 2122019, within 2119590-2122019, plus)
deDo: beta-hexosaminidase (B9J09_10265) (actual pos 2122001, within 2119572-2122010, plus)

Region 321 (indel): 2139770 (shown from 2139765 to 2139776)

Sequence:
Sal1: GGGGGCTACCC
Sal2: GGGGG-CTACCC
deDo: GGGGGGCTACCC

Annotation:
Sal1: 2-octaprenyl-6-methoxyphenyl hydroxylase (BCV75_09655) (actual pos 2139418, within 2139299-2140507, plus)
Sal2: 2-octaprenyl-6-methoxyphenyl hydroxylase (BC375_09720) (actual pos 2139607, within 2139488-2140695, plus)
deDo: 2-octaprenyl-6-methoxyphenyl hydroxylase (B9J09_10320) (actual pos 2139590, within 2139471-2140679, plus)

Region 322 (indel): 2142329 (shown from 2142324 to 2142335)

Sequence:
Sal1: CCCCCGCCACC
Sal2: CCCCC-GCCACC
deDo: CCCCCGCCACC

Annotation:
Sal1: hypothetical protein (BCV75_09665) (actual pos 2141977, within 2141778-2142011, minus)

Sal2: hypothetical protein (BC375_09730) (actual pos 2142165, within 2141966-2142172, minus)
deDo: hypothetical protein (B9J09_10330) (actual pos 2142149, within 2141868-2142179, minus)

Region 323 (subst): 2142653 (shown from 2142648 to 2142659)

Sequence:
Sal1: AATGCCCACACC
Sal2: AATGCTCACACC
deDo: AATGCCCACACC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 324 (indel): 2144175 (shown from 2144170 to 2144181)

Sequence:
Sal1: CCCCC-ACGGAG
Sal2: CCCCC-ACGGAG
deDo: CCCCCACGGAG

Annotation:
Sal1: uroporphyrinogen-III C-methyltransferase (BCV75_09675) (actual pos 2143823, within 2143176-2144609, plus)
Sal2: uroporphyrinogen-III C-methyltransferase (BC375_09740) (actual pos 2144010, within 2143363-2144796, plus)
deDo: uroporphyrinogen-III C-methyltransferase (B9J09_10340) (actual pos 2143995, within 2143348-2144783, plus)

Region 325 (indel): 2144943 (shown from 2144938 to 2144949)

Sequence:
Sal1: CCCCC-GCACTC
Sal2: CCCCC-GCACTC
deDo: CCCCCGCACTC

Annotation:
Sal1: uroporphyrinogen-III C-methyltransferase (BCV75_09675) (actual pos 2144590, within 2143176-2144609, plus)
Sal2: uroporphyrinogen-III C-methyltransferase (BC375_09740) (actual pos 2144777, within 2143363-2144796, plus)
deDo: uroporphyrinogen-III C-methyltransferase (B9J09_10340) (actual pos 2144763, within 2143348-2144783, plus)

Region 326 (subst): 2156607-2156611 (shown from 2156602 to 2156617)

Sal1: GCCCCGAGCAAAACCC
Sal2: GCCCCGAGCAAAACC
deDo: GCCCCGAGCAAAACC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 327 (subst): 2156615 (shown from 2156610 to 2156621)

Sequence:
Sal1: CAAAACCCC-GC
Sal2: GCAAACCCCGC
deDo: GCAAACCCCGC

Annotation:
Sal1: peptidase M20 (BCV75_09725) (actual pos 2156265, within 2155664-2157327, minus)
Sal2: peptidase M20 (BC375_09790) (actual pos 2156452, within 2155851-2157515, minus)
deDo: peptidase M20 (B9J09_10400) (actual pos 2156439, within 2155838-2157502, minus)

Region 328 (indel): 2156619 (shown from 2156614 to 2156625)

Sequence:
Sal1: ACCCC-GCGCCA
Sal2: AACCCCGCGCCA
deDo: AACCCCGCGCCA

Annotation:
Sal1: peptidase M20 (BCV75_09725) (actual pos 2156265, within 2155664-2157327, minus)
Sal2: peptidase M20 (BC375_09790) (actual pos 2156452, within 2155851-2157515, minus)
deDo: peptidase M20 (B9J09_10400) (actual pos 2156439, within 2155838-2157502, minus)

Region 329 (indel): 2168363 (shown from 2168358 to 2168369)

Sequence:
Sal1: CCCCC-AACAGC
Sal2: CCCCCAACAGC
deDo: CCCCCAACAGC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 330 (indel): 2174328 (shown from 2174323 to 2174334)

Sequence:

Sal1: CCCCCCATATTA
Sal2: CCCCC-ATATTA
deDo: CCCCCCATATTA

Annotation:

Sal1: cell division protein FtsZ (BCV75_09775) (actual pos 2173972, within 2173804-2175039, minus)
Sal2: cell division protein FtsZ (BC375_09840) (actual pos 2174161, within 2173993-2175227, minus)
deDo: cell division protein FtsZ (B9J09_10460) (actual pos 2174148, within 2173980-2175215, minus)

Region 331 (indel): 2182892 (shown from 2182887 to 2182898)

Sequence:

Sal1: AAAAA-CCAAGA
Sal2: AAAAAACCAAGA
deDo: AAAAAACCAAGA

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 332 (indel): 2197735 (shown from 2197730 to 2197741)

Sequence:

Sal1: CCCCC-GAAGTC
Sal2: CCCCC-GAAGTC
deDo: CCCCCGAAGTC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 333 (indel): 2197779 (shown from 2197774 to 2197785)

Sequence:

Sal1: GGGGGGATAGTT
Sal2: GGGGG-ATAGTT
deDo: GGGGGGATAGTT

Annotation:

Sal1: hypothetical protein (BCV75_09885) (actual pos 2197421, within 2197411-2198073, minus)
Sal2: hypothetical protein (BC375_09950) (actual pos 2197610, within 2197581-2198261, minus)
deDo: hypothetical protein (B9J09_10575) (actual pos 2197599, within 2197589-2198251, minus)

Region 334 (indel): 2218541 (shown from 2218536 to 2218547)

Sequence:

Sal1: CCCCC-ATCACG
Sal2: CCCCCCATCACG
deDo: CCCCCATCACG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 335 (indel): 2240476 (shown from 2240471 to 2240482)

Sequence:

Sal1: CCCCC-ATGTGG
Sal2: CCCCCCATGTGG
deDo: CCCCCATGTGG

Annotation:

Sal1: ribosomal protein S6 modification protein (BCV75_10095) (actual pos 2240117, within 2239706-2240569, plus)
Sal2: ribosomal protein S6 modification protein (BC375_10160) (actual pos 2240306, within 2239895-2240759, plus)
deDo: 30S ribosomal protein S6--L-glutamate ligase (B9J09_10790) (actual pos 2240296, within 2239885-2240749, plus)

Region 336 (indel): 2241076 (shown from 2241071 to 2241082)

Sequence:

Sal1: TTTT-GTTAGG
Sal2: TTTTTTGTAGG
deDo: TTTTTTGTAGG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 337 (indel): 2242912 (shown from 2242907 to 2242918)

Sequence:

Sal1: CCCCC-ACTTTC
Sal2: CCCCCCACTTTC
deDo: CCCCCCACTTTC

Annotation:

Sal1: two-component sensor histidine kinase

(BCV75_10105) (actual pos 2242551, within 2241924-2243260, plus)

Sal2: two-component sensor histidine kinase (BC375_10170) (actual pos 2242742, within 2242115-2243452, plus)

deDo: two-component sensor histidine kinase (B9J09_10800) (actual pos 2242732, within 2242105-2243442, plus)

Region 338 (indel): 2246153-2246163 (shown from 2246148 to 2246169)

Sal1: TAACTAGCAATCGTATCAAGCA

Sal2: TAACTAGCAATCGTATCAAGCA

deDo: TAACT-----CAAGCA

Annotation:

Sal1: type II secretory pathway protein (BCV75_10120) (actual pos 2245791, within 2245032-2246423, minus)

Sal2: type II secretory pathway protein (BC375_10185) (actual pos 2245983, within 2245224-2246615, minus)

deDo: type II secretory pathway protein (B9J09_10815) (actual pos 2245973, within 2245214-2246462, minus)

Region 339 (indel): 2247788 (shown from 2247783 to 2247794)

Sequence:

Sal1: AAAAA-TATTTA

Sal2: AAAAAATATTTA

deDo: AAAAAATATTTA

Annotation:

Sal1: no gene

Sal2: hypothetical protein (BC375_10195) (actual pos 2247618, within 2247559-2247785, minus)

deDo: hypothetical protein (B9J09_10825) (actual pos 2247597, within 2247538-2247764, minus)

Region 340 (indel): 2261504 (shown from 2261499 to 2261510)

Sequence:

Sal1: CGGGG-TCGGAT

Sal2: CGGGGGTCGGAT

deDo: CGGGGGTCGGAT

Annotation:

Sal1: peptidase (BCV75_10175) (actual pos 2261141, within 2260306-2262808, minus)

Sal2: peptidase (BC375_10245) (actual pos 2261334, within 2260499-2263002, minus)

deDo: peptidase (B9J09_10875) (actual pos 2261313, within 2260478-2262982, minus)

Region 341 (indel): 2263082 (shown from 2263077 to 2263088)

Sequence:

Sal1: GGGGG-TACGGT

Sal2: GGGGG-TACGGT

deDo: GGGGGGTACGGT

Annotation:

Sal1: peptidase (BCV75_10175) (actual pos 2262718, within 2260306-2262808, minus)

Sal2: peptidase (BC375_10245) (actual pos 2262912, within 2260499-2263002, minus)

deDo: peptidase (B9J09_10875) (actual pos 2262891, within 2260478-2262982, minus)

Region 342 (indel): 2271545 (shown from 2271540 to 2271551)

Sequence:

Sal1: GGGGG-AGACGG

Sal2: GGGGG-AGACGG

deDo: GGGGGGAGACGG

Annotation:

Sal1: DNA ligase (NAD(+)) LigA (BCV75_10205) (actual pos 2271180, within 2269448-2271933, minus)

Sal2: DNA ligase (NAD(+)) LigA (BC375_10275) (actual pos 2271374, within 2269642-2272136, minus)

deDo: DNA ligase (NAD(+)) LigA (B9J09_10905) (actual pos 2271354, within 2269622-2272117, minus)

Region 343 (indel): 2272303 (shown from 2272298 to 2272309)

Sequence:

Sal1: AGGGG-ATCATG

Sal2: AGGGGGATCATG

deDo: AGGGGGATCATG

Annotation:

Sal1: no gene

Sal2: DNA ligase (NAD(+)) LigA (BC375_10275) (actual pos 2272131, within 2269642-2272136, minus)

deDo: DNA ligase (NAD(+)) LigA (B9J09_10905) (actual pos 2272112, within 2269622-2272117, minus)

Region 344 (indel): 2294074 (shown from 2294069 to 2294080)

Sequence:

Sal1: CCCCC-TCTTCC

Sal2: CCCCCCTCTTCC

deDo: CCCCCCTCTTCC

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

Region 345 (indel): 2308571 (shown from 2308566 to 2308577)

Sequence:
Sal1: CCCCC-GTGAGT
Sal2: CCCCC-GTGAGT
deDo: CCCCCGTGAGT

Annotation:
Sal1: peptidase (BCV75_10360) (actual pos 2308203, within 2307393-2309020, minus)
Sal2: peptidase (BC375_10430) (actual pos 2308399, within 2307589-2309251, minus)
deDo: peptidase (B9J09_11075) (actual pos 2308380, within 2307570-2309234, minus)

Region 346 (indel): 2309342 (shown from 2309337 to 2309348)

Sequence:
Sal1: CCCCCAGAGGC
Sal2: CCCCC-AGAGGC
deDo: CCCCCAGAGGC

Annotation:
Sal1: peptidase (BCV75_10360) (actual pos 2308973, within 2307393-2309020, minus)
Sal2: peptidase (BC375_10430) (actual pos 2309169, within 2307589-2309251, minus)
deDo: peptidase (B9J09_11075) (actual pos 2309151, within 2307570-2309234, minus)

Region 347 (indel): 2318658 (shown from 2318653 to 2318664)

Sequence:
Sal1: CCCCC-AAGTAT
Sal2: CCCCC-AAGTAT
deDo: CCCCCAAGTAT

Annotation:
Sal1: energy transducer TonB (BCV75_10410) (actual pos 2318289, within 2318164-2318576, plus)
Sal2: energy transducer TonB (BC375_10480) (actual pos 2318484, within 2318359-2318771, plus)
deDo: energy transducer TonB (B9J09_11125) (actual pos 2318467, within 2318342-2318755, plus)

Region 348 (indel): 2320137 (shown from 2320132 to 2320143)

Sequence:
Sal1: CCCCCATCCAA
Sal2: CCCCC-ATCCAA
deDo: CCCCCATCCAA

Annotation:
Sal1: 23S rRNA pseudouridylate synthase (BCV75_10415) (actual pos 2319767, within 2318988-2319980, minus)
Sal2: 23S rRNA pseudouridylate synthase (BC375_10485) (actual pos 2319962, within 2319183-2320174, minus)
deDo: 23S rRNA pseudouridine(955/2504/2580) synthase (B9J09_11130) (actual pos 2319946, within 2319167-2320159, minus)

Region 349 (indel): 2320466 (shown from 2320461 to 2320472)

Sequence:
Sal1: CCCCC-ATCAGG
Sal2: CCCCCATCAGG
deDo: CCCCCATCAGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 350 (indel): 2320864 (shown from 2320859 to 2320870)

Sequence:
Sal1: AAAAA-TCCAAC
Sal2: AAAAAATCCAAC
deDo: AAAAAATCCAAC

Annotation:
Sal1: ribonuclease E (BCV75_10420) (actual pos 2320493, within 2320380-2323777, plus)
Sal2: ribonuclease E (BC375_10490) (actual pos 2320688, within 2320575-2323973, plus)
deDo: ribonuclease E/G (B9J09_11135) (actual pos 2320673, within 2320560-2323958, plus)

Region 351 (indel): 2335702 (shown from 2335697 to 2335708)

Sequence:
Sal1: CCCCC-TCTTAG
Sal2: CCCCC-TCTTAG
deDo: CCCCCCTCTTAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 352 (indel): 2362224 (shown from 2362219 to 2362230)

Sequence:

Sal1: CCCCC-ATCGAC
Sal2: CCCCC-ATCGAC
deDo: CCCCCATCGAC

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 353 (indel): 2362972 (shown from 2362967 to 2362978)

Sequence:
Sal1: CCCCC-ACATCC
Sal2: CCCCC-ACATCC
deDo: CCCCCACATCC

Annotation:
Sal1: ribose-phosphate pyrophosphokinase (BCV75_10585) (actual pos 2362598, within 2362163-2363121, minus)
Sal2: ribose-phosphate pyrophosphokinase (BC375_10655) (actual pos 2362794, within 2362359-2363317, minus)
deDo: ribose-phosphate pyrophosphokinase (B9J09_11310) (actual pos 2362781, within 2362346-2363305, minus)

Region 354 (indel): 2373079 (shown from 2373074 to 2373085)

Sequence:
Sal1: CCCCC-ATTCAG
Sal2: CCCCC-ATTCAG
deDo: CCCCCATTCAG

Annotation:
Sal1: N-acetylmuramoyl-L-alanine amidase (BCV75_10630) (actual pos 2372704, within 2372668-2373252, plus)
Sal2: N-acetylmuramoyl-L-alanine amidase (BC375_10700) (actual pos 2372900, within 2372864-2373448, plus)
deDo: hypothetical protein (B9J09_11365) (actual pos 2372888, within 2372708-2372890, minus)

Region 355 (indel): 2395583 (shown from 2395578 to 2395589)

Sequence:
Sal1: TCCCCCGAGTTC
Sal2: TCCCC-GAGTTC
deDo: TCCCCCGAGTTC

Annotation:
Sal1: signal peptide peptidase SppA (BCV75_10705) (actual pos 2395207, within 2394911-2396812, minus)
Sal2: signal peptide peptidase SppA (BC375_10770) (actual pos 2395403, within 2395107-2397007, minus)
deDo: signal peptide peptidase SppA (B9J09_11460) (actual pos 2395392, within 2395096-2396997, minus)

Region 356 (indel): 2400704 (shown from 2400699 to 2400710)

Sequence:
Sal1: AAAAA-TTATGG
Sal2: AAAAAATTATGG
deDo: AAAAAATTATGG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 357 (indel): 2403154 (shown from 2403149 to 2403160)

Sequence:
Sal1: AAAAA-TAAAAA
Sal2: AAAAAATAAAAA
deDo: AAAAAATAAAAA

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 358 (indel): 2404653 (shown from 2404648 to 2404659)

Sequence:
Sal1: TTTT-AAGCGC
Sal2: TTTTTAAGCGC
deDo: TTTTTAAGCGC

Annotation:
Sal1: RNA polymerase factor sigma-32 (BCV75_10735) (actual pos 2404275, within 2404266-2405111, minus)
Sal2: RNA polymerase factor sigma-32 (BC375_10800) (actual pos 2404472, within 2404443-2405309, minus)
deDo: RNA polymerase sigma factor RpoH (B9J09_11490) (actual pos 2404462, within 2404433-2405299, minus)

Region 359 (indel): 2423982 (shown from 2423977 to 2423988)

Sequence:
Sal1: CCCCCCGGACAG
Sal2: CCCCC-GGACAG
deDo: CCCCCCGGACAG

Annotation:
Sal1: no gene
Sal2: no gene
deDo: no gene

Region 360 (indel): 2426062 (shown from 2426057 to 2426068)

Sequence:

Sal1: CCCCCGTGAAC
Sal2: CCCCC-GTGAAC
deDo: CCCCCGTGAAC

Annotation:

Sal1: glutamate synthase large subunit (BCV75_10810) (actual pos 2425683, within 2425410-2429879, minus)
Sal2: glutamate synthase large subunit (BC375_10875) (actual pos 2425880, within 2425607-2430075, minus)
deDo: glutamate synthase large subunit (B9J09_11570) (actual pos 2425871, within 2425598-2430067, minus)

Region 361 (indel): 2432893 (shown from 2432888 to 2432899)

Sequence:

Sal1: AAAAA-GCACCC
Sal2: AAAAAAGCACCC
deDo: AAAAAAGCACCC

Annotation:

Sal1: TonB-dependent receptor (BCV75_10820) (actual pos 2432514, within 2431929-2434533, plus)
Sal2: TonB-dependent receptor (BC375_10885) (actual pos 2432710, within 2432125-2434731, plus)
deDo: TonB-dependent receptor (B9J09_11585) (actual pos 2432702, within 2432117-2434723, plus)

Region 362 (indel): 2433038 (shown from 2433033 to 2433044)

Sequence:

Sal1: CCCCC-TGAGGC
Sal2: CCCCCCTGAGGC
deDo: CCCCCCTGAGGC

Annotation:

Sal1: TonB-dependent receptor (BCV75_10820) (actual pos 2432658, within 2431929-2434533, plus)
Sal2: TonB-dependent receptor (BC375_10885) (actual pos 2432855, within 2432125-2434731, plus)
deDo: TonB-dependent receptor (B9J09_11585) (actual pos 2432847, within 2432117-2434723, plus)

Region 363 (indel): 2448174 (shown from 2448169 to 2448180)

Sequence:

Sal1: CGGGG-CACACA
Sal2: CGGGGGCACACA
deDo: CGGGGGCACACA

Annotation:

Sal1: hypothetical protein (BCV75_10880) (actual pos 2447793, within 2447426-2448126, minus)
Sal2: hypothetical protein (BC375_10945) (actual pos 2447991, within 2447624-2448325, minus)
deDo: HNH endonuclease (B9J09_11640) (actual pos 2447983, within 2447616-2448317, minus)

Region 364 (indel): 2451699 (shown from 2451694 to 2451705)

Sequence:

Sal1: GGGGG-ATGGGG
Sal2: GGGGG-ATGGGG
deDo: GGGGGGATGGGG

Annotation:

Sal1: hypothetical protein (BCV75_10890) (actual pos 2451317, within 2451157-2452410, minus)
Sal2: hypothetical protein (BC375_10955) (actual pos 2451516, within 2451356-2452609, minus)
deDo: hypothetical protein (B9J09_11650) (actual pos 2451508, within 2451442-2452602, minus)

Region 365 (indel): 2492664 (shown from 2492659 to 2492670)

Sequence:

Sal1: GGGGG-AGGCGC
Sal2: GGGGGGAGGCGC
deDo: GGGGGGAGGCGC

Annotation:

Sal1: no gene
Sal2: no gene
deDo: hemagglutinin (B9J09_11875) (actual pos 2492473, within 2490726-2500920, minus)

Region 366 (subst): 2495483-2495484 (shown from 2495478 to 2495490)

Sal1: GGGGGCGGCGGG
Sal2: GGGGGCGGCGGG
deDo: GGGGGCGGCGGG

Annotation:

Sal1: no gene
Sal2: no gene
deDo: no gene

Region 367 (subst): 2495486-2495487 (shown from 2495481 to 2495493)

Sal1: GGGCGGCGGGGTC
Sal2: GGCGGCGGGG-TC
deDo: GGGCGGCGGGGTC

Annotation:

Sal1: hypothetical protein (BCV75_11130) (actual pos

2495107, within 2494775-2495155, plus)
 Sal2: hypothetical protein (BC375_11190) (actual pos
 2495307, within 2494975-2495334, plus)
 deDo: hemagglutinin (B9J09_11875) (actual pos 2495300,
 within 2490726-2500920, minus)

 Region 368 (indel): 2495491 (shown from 2495486 to
 2495497)

Sequence:
 Sal1: GCGGGGTCGCGA
 Sal2: CGGGG-TCGCGA
 deDo: GCGGGGTCGCGA

Annotation:
 Sal1: hypothetical protein (BCV75_11130) (actual pos
 2495107, within 2494775-2495155, plus)
 Sal2: hypothetical protein (BC375_11190) (actual pos
 2495307, within 2494975-2495334, plus)
 deDo: hemagglutinin (B9J09_11875) (actual pos 2495300,
 within 2490726-2500920, minus)

 Region 369 (indel): 2495961 (shown from 2495956 to
 2495967)

Sequence:
 Sal1: GGGGG-AGGCCA
 Sal2: GGGGG-AGGCCA
 deDo: GGGGGGAGGCCA

Annotation:
 Sal1: hypothetical protein (BCV75_11140) (actual pos
 2495577, within 2495453-2496259, plus)
 Sal2: hypothetical protein (BC375_11200) (actual pos
 2495776, within 2495652-2496458, plus)
 deDo: hemagglutinin (B9J09_11875) (actual pos 2495770,
 within 2490726-2500920, minus)

 Region 370 (subst): 2498452 (shown from 2498447 to
 2498458)

Sequence:
 Sal1: GGCCGGTG----
 Sal2: GGCCGGTG----
 deDo: GGCCGCTGTGAA

Annotation:
 Sal1: no gene
 Sal2: no gene
 deDo: hemagglutinin (B9J09_11875) (actual pos 2498264,
 within 2490726-2500920, minus)

 Region 371 (indel): 2498455-2498640 (shown from 2498450
 to 2498646)

Sal1: CGGTG-----

 -----AGGGTG
 Sal2: CGGTG-----

-----AGGGTG
 deDo: CGCTGTGA-
 AGGGTGAGGCTGCCGGTGGTGGTGCCGA-
 GACGGCCGCTGGTGTGTC-
 CAGGGTGTGGGCTTGGGTGTCCAGGGTGAG
 GGCGGCCGCGGTGAGGGTGCCGCGGCCGTT
 GGTGAGGTCAGCGCTGGTGAGCCAGAGGGT-
 GTGGGCGGTTTGGAGGAGGCCGCGGTGTTGTC-
 CAGCAGGCCGGTGAGGGTG

Annotation:
 Sal1: no gene
 Sal2: no gene
 deDo: hemagglutinin (B9J09_11875) (actual pos 2498264,
 within 2490726-2500920, minus)

 Region 372 (indel): 2508657-2508668 (shown from 2508652
 to 2508668)

Sal1: TACTGATGACAACATTG
 Sal2: TACTGATGACAACATTG
 deDo: TACTG-----

Annotation:
 Sal1: no gene
 Sal2: no gene
 deDo: no gene