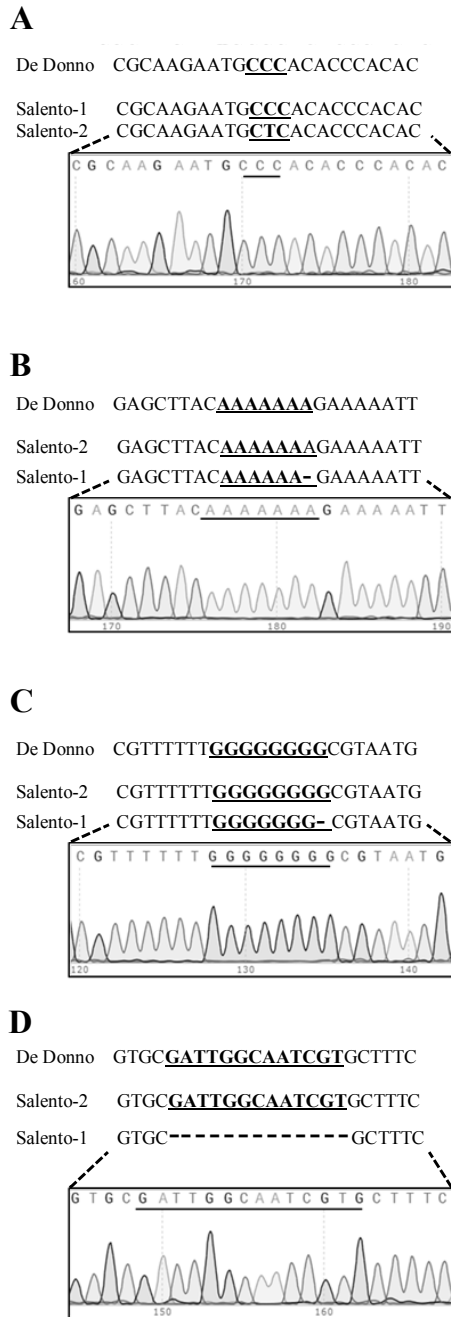


## Supplementary material



**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)



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: Fe<sup>2+</sup>-dependent dioxygenase (BCV75\_02215) (actual pos 529855, within 529690-530381, minus)  
Sal2: Fe<sup>2+</sup>-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: TTTT-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  
GTTGGTGTAGGGGTTGGTGTGGGGTGGTGTGGGG  
GTTGGTGTAGGGGTTGGTGTATCTTT  
Sal2: GGTGTGGGGTGGTGTAGGGGTTGGTGTGGGG  
GTTGGTGTAGGGGTTGGTGTGGGGTGGTGTGGGG  
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: GCCCCCAGGCCG  
deDo: GCCCCCAGGCCG

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: GCCCCCGGGAAT



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: AAAAAACTAAAA

deDo: AAAAAACTAAAA

Annotation:

Sal1: no gene

Sal2: no gene

deDo: no gene

-----

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

Sequence:

Sal1: AAAAAA-GCCCTG

Sal2: AAAAAAGCCCTG

deDo: AAAAAAGCCCTG

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: CCCCCCGGACAT

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: CCCCCCAAACCC  
Sal2: CCCCC-AAAACC  
deDo: CCCCCCAAACCC

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: AAAAAA-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: AAAAAA-TAAAAG  
Sal2: AAAAAATAAAAAG  
deDo: AAAAAATAAAAAG

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

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

Sequence:  
Sal1: GAAAAA-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-GTTCCA  
Sal2: AAAAA-GTTCCA  
deDo: AAAAAAGTTCCA

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: AATGCCACACC  
Sal2: AATGCTCACACC  
deDo: AATGCCACACC

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: CCCCCACTTTC  
deDo: CCCCCACTTTC

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