

Supplementary Table S1.

Table S1. Analysis of single nucleotide polymorphisms (SNPs) compared between vaccine strain and parent strain.

| SNP_Pattern | FcB27_Contig | FcB27_PosInContig | Fc1723_Contig | Fc1723_PosInContig | RAST Annotation ID |
|-------------|------------------|-------------------|------------------|--------------------|----------------------|
| TG | scf7180000000036 | 99642 | scf7180000000021 | 520299 | fig 996.58.peg.158 |
| GA | scf7180000000036 | 125027 | scf7180000000021 | 545685 | fig 996.58.peg.168 |
| GT | scf7180000000036 | 125076 | scf7180000000021 | 545734 | fig 996.58.peg.168 |
| CA | scf7180000000039 | 83013 | scf7180000000021 | 98057 | fig 996.58.peg.405 |
| GA | scf7180000000039 | 132995 | scf7180000000021 | 148039 | fig 996.58.peg.443 |
| CA | scf7180000000043 | 500199 | scf7180000000023 | 1492283 | fig 996.58.peg.1308 |
| CT | scf7180000000043 | 534202 | scf7180000000023 | 1526286 | fig 996.58.peg.1341 |
| GT | scf7180000000044 | 91216 | scf7180000000018 | 340971 | fig 996.58.peg.1428 |
| TC | scf7180000000044 | 41423 | scf7180000000018 | 390758 | fig 996.58.peg.1396 |
| CT | scf7180000000044 | 41416 | scf7180000000018 | 390765 | fig 996.58.peg.1396 |
| GA | scf7180000000044 | 1363 | scf7180000000018 | 430889 | none CDS or RNA |
| CT | scf7180000000044 | 1361 | scf7180000000018 | 430893 | none CDS or RNA |
| AG | scf7180000000044 | 1147 | scf7180000000018 | 431113 | none CDS or RNA |
| GA | scf7180000000047 | 741630 | scf7180000000023 | 245486 | hypothetical protein |
| GT | scf7180000000047 | 249370 | scf7180000000023 | 737762 | none CDS or RNA |
| CA | scf7180000000044 | 114715 | scf7180000000018 | 317483 | none CDS or RNA |