

**Supplementary Table S1.** Results of sequence similarity search for BLAST.  
Only the first match for each search has been reported.

| Setting | Contig name | Contig length (bp) | Identity   | Accession  | Score     | Query coverage  | Identities | Gaps |
|---------|-------------|--------------------|--|------------|-----------|-----------------|------------|------|
| S1      | S1tig1197   | 8,170              | <i>Salmonella enterica</i> strain 2016K-0213 chromosome  | CP053402.1 | 12386     | 99%             | 97%        | 1%   |
|         | S1tig1196   | 9,839              | <i>Salmonella enterica</i> strain QH chromosome  | CP043773.1 | 17091     | 99%             | 99%        | 0%   |
|         | S1tig1194   | 12,692             | <i>Salmonella enterica</i> strain QH chromosome  | CP043773.1 | 21549     | 100%            | 99%        | 0%   |
|         | S1tig0014   | 104,582            | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 plasmid pSal610 | CP076746.1 | 1.059e+05 | 99%             | 99%        | 0%   |
|         | S1tig0012   | 449,158            | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 chromosome      | CP076747.1 | 8.287e+05 | NA <sup>1</sup> | 99%        | 0%   |
|         | S1tig0008   | 1,041,510          | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 chromosome      | CP076747.1 | 1.576e+06 | NA <sup>1</sup> | 99%        | 0%   |
|         | S1tig0001   | 3,162,597          | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 chromosome      | CP076747.1 | 3.935e+06 | NA <sup>1</sup> | 99%        | 0%   |
| S2      | S2tig0037   | 104,427            | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 plasmid pSal610 | CP076746.1 | 1.056e+05 | 99%             | 99%        | 0%   |
|         | S2tig0001   | 4,670,990          | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str. Sal610 chromosome      | CP076747.1 | 3.938e+06 | NA <sup>1</sup> | 99%        | 0%   |
| S3      | S3tig1087   | 8,085              | <i>Salmonella enterica</i> strain QH chromosome  | CP043773.1 | 11771     | 100%            | 96%        | 2%   |
|         | S3tig1086   | 9,217              | <i>Salmonella enterica</i> strain 2016K-0213 chromosome  | CP053402.1 | 13367     | 100%            | 99%        | 0%   |
|         | S3tig1084   | 12,753             | <i>Salmonella enterica</i> strain 2016K-0213 chromosome  | CP053402.1 | 21571     | 100%            | 99%        | 0%   |
|         | S3tig0013   | 105,247            | <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bovismorbificans str.                        | CP076746.1 | 1.480e+05 | 99%             | 99%        | 0%   |

|    |           |           |   |            |               |                 |     |    |
|----|-----------|-----------|---|------------|---------------|-----------------|-----|----|
|    |           |           | Sal610 plasmid<br>pSal610<br><i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome |            |               |                 |     |    |
|    | S3tig0011 | 450,621   | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 8.311e<br>+05 | NA <sup>1</sup> | 99% | 0% |
|    | S3tig0007 | 1,041,507 | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 1.576e<br>+06 | NA <sup>1</sup> | 99% | 0% |
|    | S3tig0001 | 3,162,557 | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 3.934e<br>+06 | NA <sup>1</sup> | 99% | 0% |
| S6 | S6tig1068 | 7,465     | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 12848         | 100%            | 98% | 1% |
|    | S6tig1071 | 9,414     | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> strain<br>EQAS2016S1   | CP033360.1 | 16299         | 100%            | 98% | 1% |
|    | S6tig0015 | 105,533   | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 plasmid<br>pSal610                      | CP076746.1 | 1.100e<br>+05 | 99%             | 99% | 0% |
|    | S6tig0016 | 208,910   | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 3.853e<br>+05 | NA <sup>1</sup> | 99% | 0% |
|    | S6tig0013 | 234,155   | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 4.318e<br>+05 | NA <sup>1</sup> | 99% | 0% |
|    | S6tig1070 | 943,000   | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 1.739e<br>+06 | NA <sup>1</sup> | 99% | 0% |
|    | S6tig1069 | 1,040,624 | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 1.574e<br>+06 | NA <sup>1</sup> | 99% | 0% |
|    | S6tig0001 | 2,217,452 | <i>Salmonella enterica</i><br>subsp. <i>enterica</i> serovar<br>Bovismorbificans str.<br>Sal610 chromosome                              | CP076747.1 | 2.190e<br>+06 | NA <sup>1</sup> | 99% | 0% |

<sup>1</sup>Alignments obtained by BLAST+ did not report the query coverage value.