## wgMLST for Salmonella Heidelberg dataset with Biohansel genotypes

| 8  | . 09- | -40  | -20  | <sub>ç</sub> Key | SubmittedNumber | SH BioHanse |
|----|-------|------|------|------------------|-----------------|-------------|
|    |       | 27.1 |      | SRR3028786       | SH12-012        | 2.2.3.1.1   |
|    | _     | 30.7 |      | - SRR3028785     | SH10-002        | 2.2.3.1.2   |
|    |       | L    |      | - SRR3028792     | SH08-001        | 2.2.3.1     |
|    |       |      |      | SRR3028767       | SH14-014        | 2.2.2.1.2   |
|    |       |      |      | SRR3028771       | SH14-018        | 2.2.2.1.2   |
|    |       |      |      | SRR3028765       | SH14-012        | 2.2.2.1.2   |
|    |       |      |      | SRR3028755       | SH14-002        | 2.2.2.1.2   |
|    |       |      |      | SRR3028774       | SH14-021        | 2.2.2.1.2   |
|    |       |      |      | SRR3028778       | SH14-025        | 2.2.2.1.2   |
|    |       |      |      | SRR3028757       | SH14-004        | 2.2.2.1.2   |
|    |       |      |      | SRR3028758       | SH14-005        | 2.2.2.1.2   |
|    |       |      |      | SRR3028759       | SH14-006        | 2.2.2.1.2   |
|    |       |      |      | SRR3028780       | SH14-027        | 2.2.2.1.2   |
|    |       |      |      | SRR3028769       | SH14-016        | 2.2.2.1.2   |
|    |       |      |      | SRR3028773       | SH14-020        | 2.2.2.1.2   |
|    |       |      |      | SRR3028777       | SH14-024        | 2.2.2.1.2   |
|    | 49.2  |      |      | SRR3028754       | SH14-001        | 2.2.2.1.2   |
|    |       |      |      | SRR3028761       | SH14-008        | 2.2.2.1.2   |
|    |       |      |      | SRR3028760       | SH14-007        | 2.2.2.1.2   |
|    |       |      |      | SRR3028781       | SH14-028        | 2.2.2.1.2   |
|    |       |      |      | SRR3028766       | SH14-013        | 2.2.2.1.2   |
|    |       |      |      | SRR3028762       | SH14-009        | 2.2.2.1.2   |
|    |       |      |      | SRR3028764       | SH14-011        | 2.2.2.1.2   |
|    |       |      |      | SRR3028776       | SH14-023        | 2.2.2.1.2   |
|    |       |      |      | SRR3028775       | SH14-022        | 2.2.2.1.2   |
|    |       |      |      | SRR3028772       | SH14-019        | 2.2.2.1.2   |
|    |       |      | 1.0  | SRR3028768       | SH14-015        | 2.2.2.1.2   |
|    | 51.2  |      | 1.1  | SRR3028756       | SH14-003        | 2.2.2.1.2   |
|    | 51.2  |      | 1.1  | SRR3028763       | SH14-010        | 2.2.2.1.2   |
|    |       |      | 1.1  | SRR3028779       | SH14-026        | 2.2.2.1.2   |
|    |       |      | 8.5  | SRR3028770       | SH14-017        | 2.2.2.1.2   |
|    |       |      | 13.9 | - SRR3028793     | SH09-29         | 2.2.2.1.2   |
|    |       |      |      | - SRR3028794     | SH10-30         | 2.2.2.1.2   |
|    |       |      | 4.2  | - SRR3028784     | SH11-001        | 2.2.2.2.1.2 |
|    |       |      | 7.3  | - SRR3028783     | SH10-001        | 2.2.2.2.1.2 |
|    |       |      |      | - SRR3028782     | SH12-011        | 2.2.2.2.1.2 |
|    |       |      |      | SRR3028738       | SH12-003        | 2.2.2.2.1.2 |
| 62 | .8    |      |      | SRR3028739       | SH12-004        | 2.2.2.2.1.2 |
|    |       |      |      | SRR3028743       | SH12-008        | 2.2.2.2.1.2 |
|    | L     |      | 12.0 | SRR3028744       | SH12-009        | 2.2.2.2.1.2 |
|    |       |      |      | SRR3028741       | SH12-006        | 2.2.2.2.1.2 |
|    |       |      |      | SRR3028740       | SH12-005        | 2.2.2.2.1.2 |
|    |       |      | 1.0  | SRR3028736       | SH12-001        | 2.2.2.2.1.2 |
|    |       |      | 1.2  | SRR3028745       | SH12-010        | 2.2.2.2.1.2 |
| 5  |       |      | 3.1  | SRR3028737       | SH12-002        | 2.2.2.2.1.2 |
| 1  |       |      | l    | - SRR3028742     | SH12-007        | 2.2.2.2.1.2 |
|    |       |      |      | - SRR3028787     | SH12-014        | 1           |
|    |       |      | 1.0  | SRR3028791       | SH10-015        | 2.2.1.1     |
|    |       |      | 4.7  | 1                | SH11-002        | 2.2.1.1     |
|    |       |      | L    | - SRR3028789     | SH10-014        | 2.2.1.1     |
|    |       |      |      | SRR3028753       | SH13-008        | 2.2.1.1     |
|    |       |      |      | SRR3028748       | SH13-003        | 2.2.1.1     |
| L  |       |      | 5.9  | SRR3028747       | SH13-002        | 2.2.1.1     |
|    |       |      |      | SRR3028751       | SH13-006        | 2.2.1.1     |
|    |       |      |      | SRR3028750       | SH13-005        | 2.2.1.1     |
|    |       |      |      | SRR3028752       | SH13-007        | 2.2.1.1     |
|    |       |      | 2.1  | SRR3028746       | SH13-001        | 2.2.1.1     |
|    |       |      |      |                  |                 |             |
|    |       |      |      | SRR3028749       | SH13-004        | 2.2.1.1     |

**Comparison generated using BioNumerics v 7.6.3 on 4396 alleles.** The wgMLST allele differences indicated at the nodes were calculated using UPGMA and therefore, are not whole numbers. To determine the nearest whole number value, round up if the digit following the decimal is 5 or greater; round down if the digit following the decimal is less than 5.