

Table S3. Primers used in this study

| Purpose | Primer designation | Sequence (5'-3') |
|---|---------------------------|---|
| Insertion-deletion mutagenesis | | |
| Elongation of <i>hk08</i> gene | hk08_826 | 5'-GTGAGGTTCAACTTATCACC-3' |
| | hk08_827 | 5'-CGTTATCCAAACGACGTTCC-3' |
| Inverse PCR of <i>hk08</i> cloned fragment | hk08_824 | 5'-CCGGCCTGCAGGTTAAGAGGGTTGAAATAATATAT-3' |
| | hk08_825 | 5'-CCGGCCTGCAGCCATCAATTGGGTGGGGAAATCA-3' |
| Elongation of <i>rr08</i> gene | rr08_249 | 5'-GCGCGCGGATCCCATCAGACACAGCAAATGGTTC-3' |
| | rr08_250 | 5'-GCGCGCCTGCAGGTGGACATCTCTTCTCCTG-3' |
| Inverse PCR of <i>rr08</i> cloned fragment | rr08_984 | 5'-TCATCGGGTACCCATGGGCTACCAAGACCTGA-3' |
| | rr08_985 | 5'-TCACTGCTCGAGTAAGACAGTTTGGGGTTGG-3' |
| Elongation of <i>tcs08</i> genes | rr08_249 | 5'-GCGCGCGGATCCCATCAGACACAGCAAATGGTTC-3' |
| | rr08_250 | 5'-GCGCGCCTGCAGGTGGACATCTCTTCTCCTG-3' |
| Inverse PCR of <i>tcs08</i> cloned fragment | tcs08_252 | 5'-GCGCGCAAGCTTTTGAACAGCTCTAGCGCTTC-3' |
| | tcs08_253 | 5'-GCGCGCAAGCTTTGATTCCCTTGAAGAAAGC-3' |
| Antibiotic cassette preparation | | |
| Spectinomycin (<i>aad9</i>) | spec_117 | 5'-AAAAAGCTTGAATTCGGATCCATCGATTTTCGTTCTGTAATAC3' |
| | spec_118 | 5'-AAAAAGCTTGCTAGCAATTAGAATGAATATTTCCC-3' |
| Erythromycin (<i>ermB</i>) | <i>ermpst1_67</i> | 5'-GCGCGCCTGCAGACGGTTCGTGTTCTGCTG-3' |
| | <i>Ermpst2_68</i> | 5'-GCGCGCCTGCAGCGTAGGCGCTAGGGACCTC-3' |
| Erythromycin (<i>ermB</i>) | <i>erm_105</i> | 5'-GATGATGATGATCCCCTGACCAAGCTTGAATTCACGGTTCGTGTTCTGCTG-3' |
| | <i>erm_106</i> | 5'-AGTGAGTGAGTCCCCTGCGAGAGCTTGAATTCGTAGGCGCTAGGGACCTC-3' |
| Real-Time PCR | | |
| <i>arcA</i> (<i>sp_2148</i>) | <i>arcART_0611</i> | 5'-TGCCGGACTATCTTGAAAGG-3' |
| | <i>arcART_1578</i> | 5'-GAGAGGTCAATGATTTCAGCA-3' |
| <i>arcD</i> (<i>sp_2152</i>) | <i>RT_arcD_F_1676</i> | 5'-GGGGCCTTTATAGAAGGTAT-3' |
| | <i>RT_arcD_R_1677</i> | 5'-GGCTACATCAATCGCTGCG-3' |
| <i>psaA</i> (<i>sp_1650</i>) | <i>RT_psaA_F_1680</i> | 5'-GCTACAAACTCAATCATCGC-3' |
| | <i>RT_psaA_R_1681</i> | 5'-GAAAATCAAATTAGCCTCAGAA-3' |
| <i>pavB</i> (<i>sp_0082</i>) | <i>pavBRT_1436</i> | 5'-CGGTGTTGCCTCAGTTGTTG-3' |
| | <i>pavBRT_1437</i> | 5'-CCCTCAGGTTTCGCTTGAGT-3' |
| <i>rrgB</i> (<i>sp_0463</i>) | <i>rrgBRT_1488</i> | 5'-AGCAGAAACGCCTGAAACCA-3' |
| | <i>rrgBRT_1489</i> | 5'-CCTGTTTGCGCCTCTGTCC-3' |
| <i>ribosomal protein S16</i> (<i>sp_0775</i>) | <i>RT_16S_F</i> | 5'-CTACCGTATCAACGTAGCAG-3' |
| | <i>RT_16S_R</i> | 5'-AGTACTTGGTTTTTCAGCAACA-3' |
| <i>rr08</i> (<i>sp_0083</i>) | <i>F_qRTPCR_RR08_1702</i> | 5'-AGGCAGGTTATCAGGTCTTG-3' |
| | <i>R_qRTPCR_RR08_1703</i> | 5'-TTCACCTGGTCTTAGCAGTAATA-3' |
| <i>hk08</i> (<i>sp_0084</i>) | <i>F_qRTPCR_HK08_1704</i> | 5'-AGGCGAGATTTACTTTTTGCT-3' |
| | <i>R_qRTPCR_HK08_1705</i> | 5'-CTAATTGCTGAAATTCTACAGG-3' |