Table S2 List of primers

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| Primer name | Sequence (5-3’) |
| PglE1F | AAGTAATGAAAATGTCGAACTTA |
| PglE3R | CGGAAATTTTCTAAATCGGCA |
| PilE-HisB | TCACCCAAGCTTTTAGCTATCACTTGCGT |
| PilE-HisC | ggatccatgaacacccttCAAAAAGG |
| PilE-TrypF | CACGGCAAATGGCCCGGGAAC |
| PilE-TrypR | GTTCCCGGGCCATTTGCCGTG |
| RfpB 14 | TTCGGAAACATTGTTCACAA |
| RfpB 9 | TTTTCGGCACTTTTGCCGCA  |
| MWK1 | AACATTATGAGCCAAGCCTTACCC |
| MWK3b | GTATCGGCGGCGCAGCAGGGGCTTTTCTTCCTGC |
| Ser 34 ⇒ Ala For | GCACAAGTTGCCGAAGCCATTCTTTTGG |
| Ser 34 ⇒ Ala Rev | CCAAAAGAATGGCTTCGGCAACTTGTGC |
| Ser45 ⇒ Ala For | CCGAAGGTCAAAAAGCAGCCGTCACAGAG |
| Ser 45 ⇒ Ala Rev | CTCTGTGACGGCTGCTTTTTGACCTTCGG |
| Ser 68 ⇒ Ala For | GCGTGGCAGCTTCTTCAACAATCAAAGGC |
| Ser 68 ⇒ Ala Rev | GCCTTTGATTGTTGAAGAAGCTGCCACGC |
| Ser 69 ⇒ Ala For | GCGTGGCATCTGCTTCAACAATCAAAGGC  |
| Ser 69 ⇒ Ala Rev | GCCTTTGATTGTTGAAGCAGATGCCACGC |
| Ser 70 ⇒ Ala For | GCGTGGCATCTTCTGCAACAATCAAAGGC  |
| Ser 70 ⇒ Ala Rev | GCCTTTGATTGTTGCAGAAGATGCCACGC |
| Ser157 ⇒ Ala For | CGACGCAGGTGATGCCAGCAGAGGATCG |
| Ser157 ⇒ Ala Rev | CGATCCTCTGCTGGCATCACCTGCGTCG |
| Ser160 ⇒ Ala For | GATGCCGGCAGAGGATCGCATCACC |
| Ser160 ⇒ Ala Rev | GGTGATGCGATCCTCTGCCGGCATC |
| PilE-NotI | GACCTGCAGGCGGCCGCGAATTCACTA |
| Tet-HindIII | CTCCACTGTTATATAATAAGCTTTCTGTTAAGG |
| FLAG-XhoI | TTAAAACTCGAGCTTATCGTCGTCATCCTTGTAATCGCTAGCATCACTTGCGTCGCGGCAGG |
| S157/160A-XhoI | AAAACTCGAGCTTATTAGCTGGCATCACTTGCGTCGCGGCAGG |
| *pptA*\_EagI For | CAATTAACGGCCGAATAAAAGGAAGCCGATATGAAACAATCCGCCCGAATA |
| *pptA*\_NcoI Rev | TGGAATCCATGGTCATTTTTTAGACGTATTTTTAGTCG |
| C311*pptA*11GFor | GGGGGGTATTTGCTGACGTAAAAAAC |
| C311*pptA*11GRev | CCCCCGATACACAATATTTCCAAAC |
| 8013*pptA*8GFor | GGGGTATTTGCTGACGTAAAAAAC |
| 8013*pptA*8GRev | CCCCGATACACAATATCTCCAAAC |