**Supplementary File 1.** The primers used for the construction of *Edwardsiella tarda* translocon mutants.

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| Primer | Sequence (5’-3’)a | Mutant |
| EseB/D-F1 | GGTTACCCGCATGCAGCAGCGCGCAGGCAAACGCG | Δ*eseB-D* |
| EseB/D R1 | AGAGCACTAGGAGGCACGATGGATGACG |
| EseB/D-F2 | TGCCTCCTAGTGCTCTCCTCTGAGGGAT |
| EseB/D-R2 | CCCTTCTAGATAGATCTGGAGACGCCGCTCAACGCCT |
| EscA-F1 | GGTTACCCGCATGCACTGCGCCTTAGCCTGATCCTC | Δ*escA* |
| EscA-R1 | CGCTGCATCGTCAGTTCACACCGGTGACC |
| EscA-F2 | AACTGACGATGCAGCGTAGCGAGATCGTC |
| EscA-R2 | CCCTTCTAGATAGATCTCCAGTTCATGACGCTATTCAC |
| EseB-F1 | GGTTACCCGCATGCAGTCTCCTCGGTCACCGGTGTG | Δ*eseB* |
| EseB-R1 | TAAACCACGCCGAGATGAACAAATCCATC |
| EseB-F2 | ATCTCGGCGTGGTTTACACCGCCGTGGTA |
| EseB-R2 | CCCTTCTAGATAGATCTGATAACCAAACAGCAAACGTT |
| EseC-F1 | GGTTACCCGCATGCACCGCTTAAGCTGCTGCTCGGC | Δ*eseC* |
| EseC-R1 | CTGAGACCGGCGCCATGCTCAGCAACATC |
| EseC-F2 | ATGGCGCCGGTCTCAGTGATATTGTTCAT |
| EseC-R2 | CCCTTCTAGATAGATCTAACAAATCCATCGCCCAGAAT |
| EseD-F1 | GGTTACCCGCATGCATTATCAGGGCGTGCGCCCCGG | Δ*eseD* |
| EseD-R1 | ACGGTGTTGCCCACGAACGTATCGCCAGC |
| EseD-F2 | TCGTGGGCAACACCGTGGCTGCCGCTGTC |
| EseD-R2 | CCCTTCTAGATAGATCTGCCGAGCAGAGCGGTCGCTTC |
| FliC-F1 | GGTTACCCGCATGCAGTATACAAATCAGTCACGTCG | Δ*fliC* |
| FliC-R1 | CGCTTCACCGTACAGAACCGTTTCGATTCC |
| FliC-F2 | GTTCTGTACGGTGAAGCGGTTGGAGATCG |
| FliC-R2 | CCCTTCTAGATAGATCTTACGCGTTATCGGCTCTGTTG |

aThe underlined sequences are the homologous arm sequences in pDM4.