**Table S1: Double Mutant Cycle Analysis of TonB F125A, TonB Y163A, and TonB G186A**

| | Sensitivity[a] | | | |
|---|---|---|---|---|
| Mutant[b] | Col B | Col D | Col M | Col Ia |
| ΔtonB | T,T,T[c] | T,T,T | T,T,T | T,T,T |
| pKP325 (wt) | 9,9,9 | 6,6,6 | 4,4,4 | 9,9,10 |
| KP1270/pKP477 | 9,9,9 | 7,7,7 | 5,5,5 | 9,9,9 |
| F125A | 9,9,9 | 6,6,6 | 4,4,4 | 8,8,8 |
| Y163A | T,T,T | T,T,T | T,T,T | 8,8,8 |
| F180A | 7,7,7 | 4,4,4 | 3,3,3 | 1,2,2 |
| G186A | 7,6,7 | 4,4,4 | 3,4,3 | 5,5,5 |
| F202A | 3,3,4 | T,T,T | T,T,T | 8,8,7 |
| W213A | 6,6,6 | T,T,T | 2,2,2 | T,T,T |
| Y215A | 7,7,7 | T,T,T | 2,3,2 | T,T,T |
| F230A | 4,4,4 | 0,1,1 | T,T,T | 9,8,9 |
| F125A Y163A | T,T,T | T,T,T | T,T,T | 7,7,8 |
| F125A F180A | 7,7,7 | 4,4,4 | 2,2,2 | 2,3,2 |
| F125A F202A | 3,3,3 | T,T,T | T,T,T | 8,8,7 |
| F125A W213A | 5,5,5 | T,T,T | 2,2,1 | T,T,T |
| F125A Y215A | 7,7,7 | T,T,T | 3,3,3 | T,T,T |
| F125A F230A | 4,5,4 | 0,0,0 | T,T,T | 9,9,9 |

| | | | | |
|---|---|---|---|---|
| Y163A F180A | T,T,T | T,T,T | T,T,T | T,T,T |
| Y163A F202A | T,T,T | T,T,T | T,T,T | T,T,T |
| Y163A W213A | T,T,T | T,T,T | T,T,T | T,T,T |
| Y163A Y215A | T,T,T | T,T,T | T,T,T | T,T,T |
| Y163A F230A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A F125A | 7,7,6 | 5,5,4 | 3,3,3 | 3,4,4 |
| G186A Y163A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A F180A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A F202A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A W213A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A Y215A | T,T,T | T,T,T | T,T,T | T,T,T |
| G186A F230A | T,T,T | T,T,T | T,T,T | T,T,T |

[a] Spot titer assays were conducted in KP1406 (*tonB*, *aroB*). Numbers indicate the last 5-fold dilution at which sensitivity to the agent was apparent.

[b] TonB proteins were expressed at chromosomal levels

[c] T denotes tolerance (no sensitivity) to the particular agent tested