**Supplementary File 2.** Bacterial strains used in this study.

|  |  |  |
| --- | --- | --- |
| **Strain** | **Relevant markers/ genotype** | **Reference/ source** |
| ***S. enterica* subsp. Typhimurium** | | |
| SL1344 | LT2 *hisG* | Laboratory stock |
| Δ*glnZ*::*kan* | SL1344 Δ*glnA* 3´UTR::*kan* | This study |
| Δ*glnZ* | SL1344 Δ*glnA* 3´UTR::FRT | This study |
| ***E. coli*** | | |
| BW25113 | F- λ- *rrnB3* Δ*lacZ*4787 *hsdR*514 Δ(*araBAD*)567 Δ(*rhaBAD*)568 *rph*-1 | NBPR strain |
| O157 |  | Laboratory stock |
| O111 |  | Laboratory stock |
| Δ*glnZ*::*kan* | BW25113 Δ*glnZ*::*kan* | This study |
| Δ*glnZ*::*cat* I-SceI | BW25113 Δ*glnZ*:: *cat* I-SceI | This study |
| Δ*glnZT*::*kan* | BW25113 Δ*glnZT*::*kan* | This study |
| Δ*glnZ* | BW25113 Δ*glnZ*::FRT | This study |
| Δ*glnZT* | BW25113 Δ*glnZT*::FRT | This study |
| *glnZ*O157 | BW25113 *glnZ*O157 | This study |
| *glnZ*O111 | BW25113 *glnZ*O111 | This study |
| *ntrC*::3xFLAG | BW25113 *ntrC*::3xFLAG *kan* | This study |
| Δ*glnZ ntrC*:::3xFLAG | BW25113 Δ*glnZ::* FRT *ntrC*::3xFLAG *kan* | This study |
| ΔΔ*glnZ ntrC*:::3xFLAG | BW25113 ΔΔ*glnZ*::FRT *ntrC*::3xFLAG *kan* | This study |
| *glnZ*O157 *ntrC*:::3xFLAG | BW25113 *glnZ*O157 *ntrC*::3xFLAG *kan* | This study |
| *glnZ*O111 *ntrC*:::3xFLAG | BW25113 *glnZ*O111 *ntrC*::3xFLAG *kan* | This study |
| Δ*nac* | BW25113 Δ*nac::kan* (JW1967) | NBPR strain |
| Δ*glnZ* Δ*nac* | BW25113 Δ*glnZ::*FRT Δ*nac::kan* | This study |
| TM587 | W3110 *mlc* Δ*hfq*::*cat* | (Morita *et al.*, 2005) |
| TM151 | W3110 *mlc* *ams-1*::Tn*10* | (Morita *et al.*, 2006) |
| ST201 | W3110 *rnc14*::Tn*10* | (Sunohara *et al.*, 2004) |
| Δ*glnZ* Δ*hfq* | BW25113 Δ*glnZ::*FRT Δ*hfq*::*cat* | This study |
| Δ*glnZ ams-1* | BW25113 Δ*glnZ::*FRT *ams-1*::Tn*10* | This study |
| *rnc14* | BW25113 *rnc14*::Tn*10* | This study |
| Δ*glnZ rnc14* | BW25113 Δ*glnZ::*FRT *rnc14*::Tn*10* | This study |