***Supplementary Material***

**Supplementary Table S1. Bacterial strains and plasmids used in the study**

|  |  |  |
| --- | --- | --- |
| **Strains or plasmids** | **Genotype or feature(s)a** |  **Reference or source** |
| **Strains**WT Δ*clpP*Δ*clpP*/C WT/pJB908 Δ*clpP*/pJB908 Δ*clpP*/p*clpPwt*Δ*clpP*/p*clpPtrap*WT/p*csrA*Δ*clpP*/p*csrA*WT/p*ihfB*Δ*clpP*/p*ihfB*WT/p*gfp*Δ*clpP*/p*gfp*WT/p*PcsrA-gfp* | *L. pneumophila* serogroup 1, strain Philadelphia, *rpsL*, *HsdR−*, *Thy−* (LP02)WT with *clpP* deletion (XP02)Δ*clpP* containing *clpP* for complementation (XP02C)WT containing pJB908 vectorΔ*clpP* containing pJB908 vectorΔ*clpP* with expression of *clpP* wild type gene with His-tagΔ*clpP* with expression of *clpP* mutation gene (*S110→A110*) with His-tagWT containing plasmids pJB908-*csrA* with expression of CsrAΔ*clpP* containing plasmids pJB908-*csrA* with expression of CsrAWT containing plasmids pJB908-*ihfB* with expression of IHFBΔ*clpP* containing plasmids pJB908-*ihfB* with expression of IHFBWT containing plasmids pJB908- *gfp* with expression of *gfp* Δ*clpP* containing plasmids pJB908-*gfp* with expression of *gfp* WT containing plasmids pJB908-*PcsrA-gfp* with expression of *gfp* under *csrA* promoter region | Lab collectionZhao *et al*. (2016)Zhao *et al*. (2016)This studyThis studyThis studyThis studyThis studyThis studyThis studyThis studyThis studyThis studyThis study |
| Δ*clpP*/p*PcsrA-gfp* | Δ*clpP* containing plasmids pJB908-*PcsrA-gfp* with expression of *gfp* under *csrA* promoter region | This study |
| Δ*ihfB* | WT with *ihfB* deletion | This study |
| Δ*ihfB/*pJB908 | Δ*ihfB* containing pJB908 vector | This study |
| Δ*ihfB/*C | Δ*ihfB* containing plasmids pJB908-*ihfB/C* for complementation | This study |
| Δ*ihfB/*p*csrA*Δ*ihfB/*p*gfp* | Δ*ihfB* containing plasmids pJB908-*csrA* with expression of CsrAΔ*ihfB* containing plasmids pJB908-*Pmip-gfp* with expression of *gfp*  | This studyThis study |
| DH5α | F- *endA1 hsdRI7* (rk- mk+) *supE44 thi-1*λ- *recA1 gyrA96* (Nalr) *relA1 Δ*(*lacZYA-argF*)*U169 deoR* φ80d*lacZ Δ*M15 | Lab collection |
| BL21 | B F- *ompT* *hsdS*(rB- mB-) *dcm+* Tetr *gal* λ(DE3) *endA* Hte [*argU ileY leuW* Cmr] | Lab collection |
| BL21p*ihfB*-28a | BL21 containing plasmids pET-28a-*ihfB* with *in vitro* expression of IHFB | This study |
| **Plasmids** |  |  |
| pBRDX  | Suicide delivery vector, *rdxA* *sacB* Cm | LeBlanc *et al*. (2006) |
| pJB908  | Insert thy gene, mutate mob into pkB5 | Sexton *et al*. (2004) |
| pJB908-*clpPwt*pJB908-*clpPtrap*pJB908-*csrA* | pJB908 containing *clpP* (WT) with C-terminally His-tagpJB908 containing *clpP* *(*mutant *, S110→A110)* with C-terminally His-tagpJB908 containing *csrA* with C-terminally His-tag under the control of *mip* promoter | This studyThis studyThis study |
| pJB908-*ihfB*pJB908-*gfp* | pJB908 containing *ihfB* with C-terminally His-tag under the control of *mip* promoterpJB908 containing *gfp* under the control of *mip* promoter | This studyThis study |
| pJB908-*PcsrA-gfp* | pJB908 containing *gfp* under the control of *csrA* promoter | This study |
| pBRDXΔ*ihfB* | pBRDX::*clpP* for *clpP* deletion | This study |
| pJB908-*ihfB/C* | Complementation plasmid, containing *ihfB* with its own promoter region | This study |
| pET-28a-c(+) | Production of N-terminally His-tagged fusion proteins, PT7, Kanr | Novagen |
| pET-28a-*ihfB* | *In vitro* expression of *ihfB* with His-tag for EMSA | This study |

a Ampr, ampicillin resistant; Kanr , kanamycin resistant; Cmr, chloramphenicol resistant; sacBs, sucrose sensitive.