**Table S2.** Bacterial strains used in this study

|  |  |  |
| --- | --- | --- |
| **Strains** | **Genotype** | **Source** |
| *Escherichia coli* |
| MG1655 | WT | Lab. strain |
| MG1655 + pApU | WT + pACYC184 + pUHE21-2 *lacIq* | This study |
| MG1655 + pA03pU | WT + pACTC184::*CSP1\_020 ~ CSP1\_023* + pUHE21-2 *lacIq* | This study |
| MG1655 + pA02pU | WT + pACTC184::*CSP1\_020 ~ CSP1\_022* + pUHE21-2 *lacIq* | This study |
| MG1655 + pA01pU | WT + pACTC184::*CSP1\_020 ~ CSP1\_021* + pUHE21-2 *lacIq* | This study |
| MG1655 + pA0pU | WT + pACTC184::*CSP1\_020* + pUHE21-2 *lacIq* | This study |
| MG1655 + pA1pU | WT + pACTC184::*CSP1\_021* + pUHE21-2 *lacIq* | This study |
| MG1655 + pApU2 | WT + pACTC184 + pUHE21-2 *lacIq*::*CSP1\_022* | This study |
| MG1655 + pA01pU | WT + pACTC184::*CSP1\_020 ~ CSP1\_021* + pUHE21-2 *lacIq* | This study |
| MG1655 + pA0pU2 | WT + pACTC184::*CSP1\_020* + pUHE21-2 *lacIq*::*CSP1\_022* | This study |
| MG1655 + pA1pU2 | WT + pACTC184::*CSP1\_021*+ pUHE21-2 *lacIq*::*CSP1\_022* | This study |
| MG1655 + pB91 | WT + pBAD33::endolysin | This study |
| MG1655 + pB92 | WT + pBAD33::holin | This study |
| BL21 (DE3) + ppB | WT + pETDuet-1 + pBAD33 | This study |
| BL21 (DE3) + p12pB | WT + pETDuet-1::*CSP1\_091*, *CSP1\_092* + pBAD33 | This study |
| BL21 (DE3) + p12pB02 | WT + pETDuet-1::*CSP1\_091*, *CSP1\_092* + pBAD33::*CSP1\_020* to *CSP1\_022* | This study |
| DH5a | WT | This study |
| BTH101 + pUT18C + pKT25 | WT + pUT18C + pKT25 | This study |
| BTH101 + pUT18C::Holin + pKT25 | WT + pUT18C::Holin + pKT25 | This study |
| BTH101 + pUT18C::Holin + pKT25::*CSP1\_020* | WT + pUT18C::Holin + pKT25::*CSP1\_020* | This study |
| BTH101 + pUT18C::Holin + pKT25::*CSP1\_021* | WT + pUT18C::Holin + pKT25::*CSP1\_021* | This study |
| BTH101 + pUT18C::Holin + pKT25::*CSP1\_022* | WT + pUT18C::Holin + pKT25::*CSP1\_022* | This study |
| BTH101 + pUT18C + pKT25::*CSP1\_020* | WT + pUT18C + pKT25::*CSP1\_020* | This study |
| BTH101 + pUT18C + pKT25::*CSP1\_021* | WT + pUT18C + pKT25::*CSP1\_021* | This study |
| BTH101 + pUT18C + pKT25::*CSP1\_022* | WT + pUT18C + pKT25::*CSP1\_022* | This study |
| BTH101 + pUT18C-Zip + pKT25-Zip | WT + pUT18C-Zip + pKT25-Zip | This study |