**Table S1**. Plasmids used in this study

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| **Plasmid** | **Description** | **Reference** |
| pACYC184 (pA) | Low copy uninducible vector. CmR | Mok et al. (1991) |
| pBAD33 (pB) | Arabinose inducible vector. CbR | Guzman et al. (1995) |
| pUHE21-2 *lacIq* (pU) | Lactose inducible vector with *lacIq* repressor. CbR | Soncini et al. (1995) |
| pETDuet-1 | Lactose inducible vector with *lacI*. Two MCS sites, each with its own T7 promoters. CbR | Lab. collection |
| pA0pU | pACYC184 expressing *CSP1\_020* and empty pUHE21-2 *lacIq* | This study |
| pB1pU | pACYC184 expressing *CSP1\_021* and empty pUHE21-2 *lacIq* | This study |
| pBpU2 | pUHE21-2 *lacIq* expressing *CSP1\_022* and empty pBAD33 | This study |
| pA01pU | pACYC184 expressing *CSP1\_020* to *CSP1\_021* and empty pUHE21-2 *lacIq* | This study |
| pA0pU2 | pACYC184 expressing *CSP1\_*020 and pUHE21-2 *lacIq* expressing CSP1*\_022* | This study |
| pB1pU2 | pBAD33 expressing *CSP1\_021* and pUHE21-2 *lacIq* expressing CSP1*\_022* | This study |
| pB91 | pBAD33 expressing endolysin gene, *CSP1\_091* | This study |
| pB92 | pBAD33 expressing holin gene, *CSP1\_092* | This study |
| P | pETDuet-1 | This study |
| p12 | pETDuet-1 expressing endolysin at MCS1 and holin at MCS2 | This study |
| pB02 | pBAD33 expressing CSP1\_020 to CSP1\_022 | This study |
| pKT25 | AmpR, plasmid for bacterial two-hybrid assay | Karimova et al. (2001) |
| pUT18C | KmR, plasmid for bacterial two-hybrid assay | Karimova et al. (2001) |
| pKT25-Zip | positive control for bacterial two-hybrid assay | Karimova et al. (2001) |
| pUT18C-Zip | positive control for bacterial two-hybrid assay | Karimova et al. (2001) |
| pKT25::*CSP1\_020* | pKT25 expressing CSP1\_020 | This study |
| pKT25::*CSP1\_021* | pKT25 expressing CSP1\_021 | This study |
| pKT25::*CSP1\_022* | pKT25 expressing CSP1\_022 | This study |
| pUT18C::Holin | pKT25 expressing holin (CSP1\_092) | This study |