**Supplementary File 1: List of strains used.**

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| **Strains** | **Genotype and relevant features** | **Reference** |
| MC4100 | F− *araD139* Δ*(argF-lac)U169 rpsL150 relA1 flbB5301 deoC1 ptsF25 rbsR thi* | (Casadaban, 1976) |
| NR698 | MC4100 *lptD4213 (*Δ330-352) | (Wu et al., 2005) |
| NR1134 | NR754 Δ*lptD::kan* pACYC184::*lptD* (*lptD* depletion strain)  | (Lee et al., 2018) |
| JCM166 | MC4100 *arar/-* Δ(*λatt-lom*)::*bla* PBAD*yaeT araC* Δ*yaeT* | (Wu et al., 2005) |
| DEK1 | MC4100, *bamA*E470G (*bamA*E470G haploid strain) | This study |
| DH5α λ*pir* | *supE4* Δ*lacU169* (φ80 *lacZ*ΔM15) *hsdR17* *recA1* *endA1* *gyrA96* *thi-1* *relA1* λ*pir* | (Metcalf et al., 1994; Simon et al., 1983) |