Supplementary File 2. Strains and plasmids used in the study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Species and strain** | **Strain number** | **Phenotype/Genotype** | **Ref.** |
| ***P. aeruginosa*** | | | |
| PA14 | SMC232 | Laboratory reference strain | (1) |
| PA14Δ*lasR* | SMC5021 | in-frame deletion of *lasR* gene | (2) |
| PA14Δ*lasR*::*lasR* | SMC9421 | SMC5021 with complementation of *lasR* at the native locus | This study |
| PA14Δ*mvfR* | SMC5018 | In-frame deletion of *mvfR* gene | (3) |
| PA14Δ*rhlR* | DH2742 | In-frame deletion of *rhlR* gene | (4) |
| PA14ΔΔ*phz* | SMC5020 | In-frame deletions of *phzA1-G1* and *phzA2-G2* genes | (5) |
| PA14Δ*mvfR*Δ*lasR* | DH1111 | In-frame deletion of *lasR* and *mvfR* genes | (3) |
| PA14Δ*lasR*Δ*rhlR* | DH2944 | In-frame deletion of *lasR* and  *rhlR* genes | (4) |
| PA14ΔΔ*phz*Δ*lasR* | SMC9422 | In-frame deletion of *phzA1-G1*, *phzA2-G2* and  *lasR* genes | This study |
| NC-AMT0101-1-2 | DH2417 | Chronic lung infection isolate with functional LasR allele, parent of NC-AMT0101-1-1 | (6) |
| NC-AMT0101-1-1 | DH2415 | Chronic lung infection isolate related to DH2417 with LasR loss-of-function (frame shift) allele | (6) |
| PA14Δ*lasI*Δ*rhlI* | DH242 | In-frame deletions of *lasI* and *rhlI* genes | (7) |
| PAO-MW1qsc102 | DH161 | PAO1 Δ*lasI*Δ*rhlI* AHL-sensing *lacZ* bioreporter for 3-oxo-C12-HSL production | (8) |
| Clinical isolate | SMC1587 | Mucoid CF isolate | (9) |
| Clinical isolate | SMC1595 | Non-mucoid CF isolate | (9) |
| Clinical isolate | SMC1596 | Non-mucoid CF isolate | (9) |
| ***S. aureus*** | | | |
| Newman | SMC1007 | Methicillin susceptible *Staphylococcus aureus* | (10) |
| JE2 | SMC8668 | Methicillin resistant *Staphylococcus aureus* | (11) |
| USA300 | SMC6979 | Methicillin resistant *Staphylococcus aureus* | (12) |
|  |  |  |  |
| ***Streptococcus* spp*.*** | | | |
| *S. sanguinis* | SMC7474 | Strain SK36 | (13) |
| *S. constellatus* | SMC7155 | *Streptococcus milleri* group | (14) |
| *S. intermedius* | SMC7156 | *Streptococcus milleri* group | (14) |
| *S. anginosus* | SMC5342 | *Streptococcus milleri* group | (14) |
|  |  |  |  |
| ***Prevotella*** **spp.** |  |  |  |
| *P. melaninogenica* | SMC6965 | ATCC25845 | (15) |
| *P. intermedia* | SMC5371 | ATCC25611 | (15) |
|  |  |  |  |
| ***E. coli*** |  |  |  |
| SM10 λpir | SMC32 | Used as a conjugation partner for introducing pEX18-based plasmids. |  |
| S17 λpir | SMC117 | Used as a conjugation partner for introducing pMQ30-based plasmids. |  |
|  |  |  |  |
| **Plasmids** |  |  |  |
| pEX18Gm-Δ*lasR* | DH123 | PA14 *lasR* in-frame deletion construct; GmR | (2) |
| pMQ30 + *lasR* | DH3548 | For complementing WT *lasR* gene at the native locus; GmR | (16) |

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