|  |  |  |
| --- | --- | --- |
| **Strain**  | **Parent strain and relevant genotype** | **Source, reference, notes** |
| *E. coli* DH5α | *rec*A1, *end*A1, *gyr*A96, *thi*; *rel*A1,*hsd*R17(rK-,mK+), *sup*E44, φ80Δ*lacZ*ΔM15, Δ*lacZ*(YA-argF)UE169 | (1) |
| *M. smegmatis* ML16 | ML15, Δ*mspA*::*FRT*, Δ*mspC*::*FRT*, Δ*mspD*::*FRT, attB::loxP, FRT*, HygR | (2) |
|  |  |  |
| **Plasmid** | **Parent vector, relevant genotype and properties** |  |
| pMS2 | ColE1 origin, PAL5000 origin, HygR | (3) |
| pMN016 | psmyc-*mspA,* ColE1 origin, PAL5000 origin, HygR | (2) |
| pML904 | pMN016 derivative, *psmyc-mspA D909193N*  | (4) |
| pMN042 | psmyc-*mspB,* ColE1 origin, PAL5000 origin, HygR |  |
| pMN013 | pimyc-*mspA,* ColE1 origin, PAL5000 origin, HygR |  |
| pML972 | psmyc-*msmeg3748,*MCS,ColE1 origin, PAL5000 origin, HygR |  |
| pML869 | pML972 derivative, *psmyc-mspA(EcoRV),* ColE1 origin, PAL5000 origin, HygR | this study |
| pML2610 | pMN016 derivative, *psmyc-mspAM1-mspA1*,ColE1 origin, PAL5000 origin, HygR | this study |
| pML870 | pML869 derivative, *psmyc -mspA-mspB*17 *,* ColE1 origin, PAL5000 origin, HygR | this study |
| pML870-10 | pML869 derivative, *psmyc -mspA-mspB*42 *,* ColE1 origin, PAL5000 origin, HygR *c*  | this study |
| pML870-6 | pML869 derivative, *psmyc -mspA-mspB*62 *,* ColE1 origin, PAL5000 origin, HygR | this study |
| pML871 | pML869 derivative, *psmyc -mspA-mspB*16LTR *,* ColE1 origin, PAL5000 origin, HygR | this study |
| pML872 | pML869 derivative, *psmyc -mspA-mspB*14TLT *,* ColE1 origin, PAL5000 origin, HygR | this study |
| pML2632 | pML2610 derivative, *psmyc –mspAM1-mspAM1* *,* ColE1 origin, PAL5000 origin, HygR | this study |
|  |  |  |
| **Oligonucleotide** | **Sequence (5’ to 3’ direction)** |  |
| COLE1 | GCGAGTCAGTGAGCGAGGAAGCG | Amplification and sequencing of *msp*A |
| pMS-SEQ1 | CGTTCTCGGCTCGATGATCC | Amplification and sequencing of *msp*A |
| mspA\_EcoRV | GCGATATCGTTCATGTTCCAGGGTTCGCCG | Cloning of pML870 |
| mspB\_EcoRV | CGGATATCGGCGGTGGCGGTAGCGGCGGTGGCGGTAGCGGCGGTGGCGGTAGCGGGCTCGACAACGAATTGAGC | Cloning of pML870 |
| M1 NsiI | AAAAAAAAAATGCATGGCCTGGACAACGAGCTGAGCCTCGTTGAT | Cloning of pML2632 |

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