

E. coli:

Strain	Description	Reference
DH5 α	F-, p80d/ <i>acZΔM15</i> Δ(<i>lacZYA-argF</i>)U169 <i>deoR recA1 endA1 hsdR17</i> (<i>r_k-m_k+</i>) <i>phoA supE44 λ-thi-1 gyrA96 relA1</i>	GIBCO, BRL
ER2566	F- λ- <i>fhuA2</i> [lon] <i>ompT lacZ::T7 gene1 gal sulA11</i> Δ(<i>mcrC-mrr</i>)114::IS10 R(<i>mcr-73::miniTn10</i>)2 R(<i>zgb-210::Tn10</i>)(Tets) <i>endA1</i> [dcm]	(1)

M. tuberculosis:

Strain	Description	Reference
H37Rv	WT ATCC collection #25618	ATCC
MHD2	Kan ^R ; <i>pafA</i> ::ΦMycoMarT7	(2)
MHD5	Kan ^R ; <i>mpa</i> ::ΦMycoMarT7	(2)
MHD802	Hyg ^R ; Δ <i>prcBA</i> :: <i>hyg</i>	(3)
MHD827	Hyg ^R ; H37Rv, pOLYG-WT ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD828	Hyg ^R ; H37Rv, pOLYG-T1A ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD829	Kan ^R , Hyg ^R ; MHD2, pOLYG-WT ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD830	Kan ^R , Hyg ^R ; MHD2, pOLYG-T1A ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD831	Kan ^R , Hyg ^R ; MHD5, pOLYG-WT ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD832	Kan ^R , Hyg ^R ; MHD5, pOLYG-T1A ΔPP <i>prcB</i> (FLAG-GGGG-His ₆)A	This study
MHD872	Hyg ^R ; H37Rv, pOLYG-His ₆ - <i>pafE</i>	This study
MHD879	Hyg ^R ; H37Rv, pOLYG-His ₆ - <i>pafE</i> _{Y173A}	This study
MHD920	Kan ^R ; H37Rv, L5 <i>attB</i> ::Rv3781-Rv3783	This study
MHD924	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{L604A}	This study
MHD925	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{G605A}	This study
MHD926	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{Q606A}	This study
MHD927	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{Y607A}	This study
MHD928	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{L608A}	This study
MHD929	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{AL608}	This study
MHD930	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{Q606L}	This study
MHD931	Kan ^R , Hyg ^R ; MHD5, L5 <i>attB</i> :: <i>mpa</i> _{K591R}	This study
MHD932	Kan ^R , Hyg ^R ; MHD920, Δ <i>pafE</i> :: <i>hyg</i>	This study
MHD946	Kan ^R , Strep ^R ; MHD920, pAJF381	This study
MHD947	Kan ^R , Hyg ^R , Strep ^R ; MHD932, pAJF381- <i>pafE</i>	This study
MHD980	Kan ^R , Hyg ^R , Strep ^R ; MHD932, pAJF381	This study
MHD981	Kan ^R , Hyg ^R , Strep ^R ; MHD932, pAJF381- <i>pafE</i> _{Y173A}	This study

Primers:

Primer Name	Primer sequence
<i>prcB</i> Promoter HindIII F	agAAGCTTgtagaaggcgcatgtgg
<i>prcB</i> WT SOE R	tcagcgcgacaatggtggCcatatgtataatctccctcgccgcctctgcgtcc
<i>prcB</i> WT SOE F	ggaaggcaggaggcgccgaaaggagatatacatatgGccaccattgtcgccgtga
<i>prcB</i> T1A SOE R	tcagcgcgacaatggtggTcatatgtataatctccctcgccgcctctgcgtcc
<i>prcB</i> T1A SOE R	ggaaggcaggaggcgccgaaaggagatatacatatgAccaccattgtcgccgtga
<i>prcB</i> -TAP-Nhel SOE R	atGCTAGCtaATGATGATGATGATGTGCTCTCCatcgcatcctgtaatccctcacc
<i>prcB</i> -Nhel-prcA SOE F	CATCATCATCATtgaGCTAGCgaaggagatatacatgtgagttccgtatttc
<i>prcA</i> BamHI F	taGGATCCGaaaggagatatacatgtgagttccgtatttc
RBS- <i>prcA</i> OG KpnI F	ataGGTACCCtttaagaaggagatataatggagcaggcgatgcgcgagcgcagcgatgg
<i>prcA</i> XbaI R	actctagatcagcccqacatttc
<i>mpa</i> promoter KpnI F	TAGGTACCCactacgcctgtggctagg
<i>mpa</i> HindIII R	TGAAGCTTctacaggactggccgagggtg
<i>thrHis-pafE</i> NdeI F	TTACATATGCATCATCATCATCATCTAGTACCAAGAGGTAGTGTGATTGGATTGAGTACC
<i>pafE</i> HindIII R	TATAAGCTTTACAGGTATTGTCGGTGC
<i>pafE</i> promoter HindIII F	TTAAAGCTTGCATCCTCGGGTACTCG
<i>pafE</i> BamHI R	TATGGATCCTTACAGGTATTGTCGGTGC
<i>pafE</i> pYUB 5' SstI F	tctaggcctAGTTCTTCTATCACGATCC
<i>pafE</i> pYUB 5' XbaI R	tagtctagaGACGTGCTCGTCGCTGCCGGTACTC
<i>pafE</i> pYUB 3' HindIII F	tataaggctGTGCGCTGCCGCCGGGTGGCAAGTC
<i>pafE</i> pYUB 3' XbaI R	tatctcgagGCATAGTCGAGCCAAAAC
<i>pafE</i> Y173A HindIII R	TATAAGCTTTACAGGGCTTGTCGGTGC
<i>pafE</i> Y173A BamHI R	TATGGATCCTTACAGGGCTTGTCGGTGC
<i>rv3779</i> promoter XbaI F	tagtctagaACACGGTGGTCGCCACCGAACATCG
<i>rv3781</i> SOE R	GGATGGTGCAGGATCCGACACTCGATTAGTATGGCTGGCCGGGTGACATGG
<i>rv3781</i> SOE F	CCATGTCACCCGCCAGCCATAACTATCGAGTGTCCGATCCGCACCATCC
<i>rv3783</i> HindIII R	tagaaggctCTACACCCAGTAGGGCACCGCGCGATAC
<i>mpa</i> L604A HindIII R	atcaaggctCTACAGGTACTGGCCGGCGTTGG
<i>mpa</i> G605A HindIII R	atcaaggctCTACAGGTACTGGCGAGGTTGG
<i>mpa</i> Q606A HindIII R	atcaaggctCTACAGGTACGCCGGAGGTTGG
<i>mpa</i> Y607A HindIII R	atcaaggctCTACAGGGCTGGCCGGAGGTTGG
<i>mpa</i> L608A HindIII R	atcaaggctCTACGCGTACTGGCCGGAGGTTGG
<i>mpa</i> ΔL608 HindIII R	atcaaggctCTAGTACTGGCCGGAGGTTGG
<i>mpa</i> Q606L HindIII R	atcaaggctCTACAGGTACAGGCCGGAGGTTGG
<i>mpa</i> K591R HindIII R	atcaaggctCTACAGGTACTGGCCGGAGGTTGGACTCGGTATCAATAGCCCTGCTGGCCGACGAACCTTCC
<i>rv3779</i> prom Spel F	AGAACTAGTACACGGTGGTCGCCACGGAATCG
<i>pafE</i> SOE R	CCTCTAGGAGTGTGGCTGCTCGATTAGTATGGCTGGCCGGGTGACATGG
<i>pafE</i> SOE F	CCATGTCACCCGCCAGCCATAACTATCGAGCAGCAACACACTCCTAGAAGG
<i>pafE</i> KpnI R	TATGGTACCTTACAGGTATTGTCGGTGC
<i>pafE</i> Y173A KpnI R	TATGGTACCTTACAGGGCTTGTCGGTGC
<i>pafE</i> T170A HindIII R	TATAAGCTTTACAGGTATTGTCGGCGCCGTGGCCGTG
<i>pafE</i> G171A HindIII R	TATAAGCTTTACAGGTATTGTCGGTGCCTGGCCGTG
<i>pafE</i> Q172A HindIII R	TATAAGCTTTACAGGTATGCTCCGGTGCCTGGCCGTG
<i>pafE</i> L174A HindIII R	TATAAGCTTTACCGTATTGTCGGTGCCTGGCCGTG
<i>pafE</i> ΔL174 HindIII R	TATAAGCTTTAGTATTGTCGGTGCCTGGCCGTG