

Strain	Relevant genotypes and description	Source or reference
<i>E. coli</i> DH5 $\alpha$	<i>recA1</i> ; <i>endA1</i> ; <i>gyrA96</i> ; <i>thi</i> ; <i>relA1</i> ; <i>hsdR17</i> ( <i>rK</i> -; <i>mK</i> +); <i>supE44</i> ; $\phi 80\Delta$ <i>lacZ</i> $\Delta$ M15; $\Delta$ <i>lacZYA-argF</i> ; UE169	[2]
<i>M. tuberculosis</i> mc <sup>2</sup> 6230	H37Rv derivative; $\Delta$ RD1 $\Delta$ <i>panCD</i> ; avirulent	[3]
<i>M. tuberculosis</i> mc <sup>2</sup> 6206	H37Rv derivative; $\Delta$ <i>leuCD</i> $\Delta$ <i>panCD</i> ; avirulent	[4]
<i>M. tuberculosis</i> ML2256	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>rv2047c::hyg</i> <sup>R</sup> ( <i>rv2047c</i> deletion)	This study
<i>M. tuberculosis</i> ML2257	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>rv2047c::hyg</i> <sup>R</sup> , L5 attB::pML4211 ( <i>P</i> <sub><i>imyc</i></sub> :: <i>rv2047c</i> ), <i>kan</i> <sup>R</sup>	This study
<i>M. tuberculosis</i> ML2300	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>mmpL4::loxP</i>	#
<i>M. tuberculosis</i> ML2301	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>mmpL5::loxP</i>	#
<i>M. tuberculosis</i> ML2302	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>mmpL4::loxP</i> , $\Delta$ <i>mmpL5::loxP</i>	#
<i>M. tuberculosis</i> ML859	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>mmpS4::loxP</i> , $\Delta$ <i>mmpS5::loxP</i>	[5]
<i>M. tuberculosis</i> ML2277	mc <sup>2</sup> 6206 derivative; $\Delta$ <i>smtB-zur::hyg</i> <sup>R</sup> ( <i>rv2358-rv2359</i> deletion)	This study
<i>M. tuberculosis</i> ML2278	mc <sup>2</sup> 6206 derivative; $\Delta$ <i>smtB-zur::hyg</i> <sup>R</sup> , L5 attB::pML4218 ( <i>P</i> <sub><i>smtB</i></sub> :: <i>smtB</i> ), <i>kan</i> <sup>R</sup>	This study
<i>M. tuberculosis</i> ML2279	mc <sup>2</sup> 6206 derivative; $\Delta$ <i>smtB-zur::hyg</i> <sup>R</sup> , L5 attB::pML4219 ( <i>P</i> <sub><i>imyc</i></sub> :: <i>zur</i> ), <i>kan</i> <sup>R</sup>	This study
<i>M. tuberculosis</i> ML2280	mc <sup>2</sup> 6206 derivative; $\Delta$ <i>smtB-zur::hyg</i> <sup>R</sup> , L5 attB::pML4220 ( <i>P</i> <sub><i>smtB</i></sub> :: <i>smtB-zur</i> ), <i>kan</i> <sup>R</sup>	This study
<i>M. tuberculosis</i> ML1600	mc <sup>2</sup> 6230 derivative; $\Delta$ <i>mbtD::hyg</i> <sup>R</sup> ( <i>rv2381c</i> deletion)	[6]

**S1 Table. Bacterial strains used in this work.**

The annotations *hyg*<sup>R</sup> and *kan*<sup>R</sup> indicate that the strain is resistant to the antibiotics hygromycin and kanamycin, respectively. Mutant strains were constructed using either Mtb mc<sup>2</sup>6230 strain or mc<sup>2</sup>6206 strain as parent strains as indicated.

#: The construction of these strains will be published elsewhere.