

TABLE S1
Rifampicin-resistant mutants used in this study

Nucleotide changes		Amino acid changes		Source
1	2	1	2	
A1553G	none	Q518R	none	<i>a</i>
A1553T	C1550T	Q518L	S517L	<i>b</i>
A1553T	none	Q518L	none	<i>a</i>
A1562T	A455G	D521V	Q152R	<i>b</i>
A1562T	none	D521V	none	<i>a</i>
A1592G	none	H531R	none	<i>a</i>
A455G	A1562G	Q152R	D521G	<i>b</i>
A455G	C1550T	Q152R	S517L	<i>b</i>
A455G	C1563A	Q152R	D521E	<i>b</i>
A455G	C1591G	Q152R	H531D	<i>b</i>
A455G	C1593A	Q152R	H531Q	<i>b</i>
A455G	C1736T	Q152R	S579F	<i>b</i>
A455G	G1724C	Q152R	G575A	<i>b</i>
A455G	none	Q152R	none	<i>a</i>
A455G	T1529C	Q152R	F510S	<i>b</i>
A455G	T1547C	Q152R	L516P	<i>b</i>
A455G	T1549G	Q152R	S517A	<i>b</i>
A455G	T449C	Q152R	V150A	<i>b</i>
A455T	A1553G	Q152L	Q518R	<i>b</i>
A455T	A1562G	Q152L	D521G	<i>b</i>
A455T	A1567G	Q152L	N523D	<i>b</i>
A455T	A1592T	Q152L	H531L	<i>b</i>
A455T	A1718G	Q152L	N573S	<i>b</i>
A455T	C1550T	Q152L	S517L	<i>b</i>
A455T	C1563G	Q152L	D521E	<i>b</i>
A455T	C1591T	Q152L	H531Y	<i>b</i>
A455T	C1607T	Q152L	S536F	<i>b</i>
A455T	C1736T	Q152L	S579F	<i>b</i>
A455T	C2296A	Q152L	Q766K	<i>b</i>
A455T	none	Q152L	none	<i>a</i>
A455T	T1549G	Q152L	S517A	<i>b</i>
A455T	T1731C	Q152L	I577T	<i>b</i>
A455T	T1731C	Q152L	I577T	<i>b</i>
C1542G	none	S514R	none	<i>c</i>
C1550T	A1553G	S517L	Q518R	<i>b</i>
C1550T	A1562G	S517L	D521G	<i>b</i>
C1550T	C1375T	S517L	R459C	<i>b</i>
C1550T	C1563G	S517L	D521E	<i>b</i>
C1550T	C1591T	S517L	H531Y	<i>b</i>
C1550T	C1607T	S517L	S536F	<i>b</i>
C1550T	C1610T	S517L	A537V	<i>b</i>
C1550T	C1619T	S517L	P540L	<i>b</i>
C1550T	C1736T	S517L	S579F	<i>b</i>

C1550T	G1561A	S517L	D521N	<i>b</i>
C1550T	G1622A	S517L	G541D	<i>b</i>
C1550T	G1624T	S517L	G542C	<i>b</i>
C1550T	none	S517L	none	<i>a</i>
C1550T	T1655G	S517L	V552G	<i>b</i>
C1563G	none	D521E	none	<i>a</i>
C1591T	A1592G	H531Y	H531R	<i>d</i>
C1591T	none	H531Y	none	<i>a</i>
C1607A	none	S536Y	none	<i>c</i>
C1607T	none	S536F	none	<i>a</i>

a. MacLean & Buckling (2009).

b. MacLean et al. (2010).

c. Fluctuation test using the same protocol as described in MacLean & Buckling (2009).

d. Hall et al. (2010). These substitutions combine to give a single amino acid change (H531C) relative to the wild type.