

Supporting information for Brosch *et al.* (March 12, 2002) *Proc. Natl. Acad. Sci. USA*,  
10.1073/pnas.052548299

**Table 1: RD, RvD and TbD1 regions**

Region absent from BCG	Gene	Size kb	Internal primer pair	Flanking primers or 2 <sup>nd</sup> internal* primer pair
RD1	<b>Rv3871-Rv3879c</b>	<b>9.5</b>	RD1in-Rv3878F GTC AGC CAA GTC AGG CTA CC	RD1-flank.left GAA ACA GTC CCC AGC AGG T
			RD1in-Rv3878R CAA CGT TGT GGT TGT TGA GG	RD1-flank.right TTC AAC GGG TTA CTG CGA AT
RD2	<b>Rv1978-Rv1988</b>	<b>10.8</b>	RD2-Rv1979.int.F TAT AGC TCT CGG CAG GTT CC	RD2-flank.F CTC GAC CGC GAC GAT GTG C
			RD2-Rv1979-int.R ATC GGC ATC TAT GTC GGT GT	RD2-flank.R CCT CGT TGT CAC CGC GTA TG
RD3*	<b>Rv1573-Rv1586c</b>	<b>9.2</b>	RD3-Rv1586.int.F TTA TCT TGG CGT TGA CGA TG	RD3-int-REP.F CTG ACG TCG TTG TCG AGG TA*
			RD3-Rv1586.int.R CAT ATA AGG GTG CCC GCT AC	RD3-int-REP.R GTA CCC CCA GGC GAT CTT*
RD4	<b>Rv1505c-Rv1516c</b>	<b>12.7</b>	RD4-Rv1516.int.F CAA GGG GTA TGA GGT TCA CG	RD4-flank.F CTC GTC GAA GGC CAC TAA AG
			RD4-Rv1516.int.R CGG TGA TTC GTG ATT GAA CA	RD4-flank.R AAG GCG AAC AGA TTC AGC AT
RD5*	<b>Rv2346c-Rv2353c</b>	<b>9.0</b>	RD5A-Rv2348.int.F AAT CAC GCT GCT GCT ACT CC	RD5B-plcA.int.F CAA GTT GGG TCT GGT CGA AT
			RD5A-Rv2348.int.R GTG CTT TTG CCT CTT GGT C	RD5B-plcA.int.R GCT ACC CAA GGT CTC CTG GT
RD6*	<b>Rv3425-Rv3428c</b>	<b>4.9</b>	RD6-IS1532F CAG CTG GTG AGT TCA AAT GC	<b>ND</b>
			RD6-IS1532R CTC CCG ACA CCT GTT CGT	<b>ND</b>
RD7	<b>Rv1964-Rv1977</b>	<b>12.7</b>	RD7-Rv1976.int.F TGG ATT GTC GAC GGT ATG AA	RD7-flank.F GGT AAT CGT GGC CGA CAA G
			RD7-Rv1976.int.R GGT CGA TAA GGT CAC GGA AC	RD7-flank.R CAG CTC TTC CCC TCT CGA C
RD8	<b>ephA-lpqG</b>	<b>5.9</b>	RD8-ephA.F GGT GTG ATT TGG TGA GAC GAT G	RD8-flank.F CAA TCA GGG CTG TGC TAA CC
			RD8-ephA.R AGT TCC TCC TGA CTA ATC CAG GC	RD8-flank.R CGA CAG TTG TGC GTA CTG GT
RD9	<b>cobL-Rv2075</b>	<b>2.0</b>	RD9-intF CGA TGG TCA ACA CCA CTA CG	RD9-flankF GTG TAG GTC AGC CCC ATC C
			RD9-intR CTG GAC CTC GAT GAC CAC TC	RD9-flankR GCC CAA CAG CTC GAC ATC
RD10	<b>Rv0221-Rv0223</b>	<b>1.9</b>	RD10-intF GTA ACC GCT TCA CCG GAA T	RD10-flankF CTG CAA CCA TCC GGT ACA C
			RD10-intR GTC AAC TCC ACG GAA AGA CC	RD10-flankR GTC ATG AAC GCC GGA CAG

RD11	<b>Rv2645-Rv2659c</b>	<b>11.0</b>	RD11-Rv2646F CGG CAG CTA GAC GAC CTC	RD11-fla-F TCA CAT AGG GGC TGC GAT AG
			RD11-Rv2646R AAC GTG CTG CGA TAG GTT TT	RD11-fla-R AGA GGA ACC TTT CGG TGG TT
RD12	<b>sseC-Rv3121</b>	<b>2.8</b>	RD12-Rv3120.int.F GAA ATA CGA GTG CGC TGA CC	RD12-flank.F GCC ATC AAC GTC AAG AAC CT
			RD12-Rv3120.int.R CTC TGA ACC ATC GGT GTC G	RD12-flank.R CGG CCA GGT AAC AAG GAG T
RD13	<b>Rv1255c-Rv1257c</b>	<b>3.0</b>	RD13intF GGA TGT CAC TCG GAA CGG CA	RD13-flank.F CGA TGG TGT TTC TTG GTG AG
			RD13intR CAC CGG GCT GAT CGA GCG A	RD13-flank.R GGA TCG GCT CAG TGA ATA CC
RD14	<b>Rv1765c-Rv1773c</b>	<b>9.0</b>	RD14-Rv1769.int.F GTG GAG CAC CTT GAC CTG AT	RD14-flank.F TTG ATT CGC CAA CAA CTG AA
			RD14-Rv1769.int.R CGT CGA ATA CGA GTC GAA CA	RD14-flank.R GGG CTG GTT AGT GTC GAT TC

### Region

missing from

### *M. tuberculosis* H37Rv

RvD1*		<b>5.0</b>	RvD1-int1F AGC GCG TCG AAC ACC GGC	RvD1-int2.F GAG CCA CTC CGA TGT TGA CT
			RvD1-int1R CCT GAA TCC GCG CAA TTC CAT	RvD1-int2.R CAC GCG AAC CCT ACC TAC AT
RvD2*	<i>plcD</i>	<b>5.1</b>	RvD2-int1F GTT CTC CTG TCG AAC CTC CA	RvD2-int2F GGA CGG TGA CGG TAT TTG TC
			RvD2-int1R ACT TCA CCG GTT TCA TCT CG	RvD2-int2R TCG CCA ACT TCT ATG GAC CT
RvD3		<b>1.0</b>	RvD3-intF ATC GAT CAG GTC GTC AAT GC	RvD3-flank.F AAA CCA TGC AGC GTC TGC CA
			RvD3-intR ACG CCA CCA TCA AGA TCC	RvD3-flank.R GCG TTT CTG CGT CTG GTT GA
RvD4*	<b>PPE gene</b>	<b>0.8</b>	RvD4-intF-PPE GGT TGC CAA CGT TAC CGA TGC	<b>ND</b>
			RvD4-intR-PPE CCG GTG GTG GTG GCG GCT	<b>ND</b>
RvD5	<i>moa</i>	<b>4.0</b>	RvD5intF GGG TTC ACG TTC ATT ACT GTT C	RvD5-flankF CCC ATC GTG GTC GTT CAC C
			RvD5intR CCT GCG CTT ATC TCT AGC GG	RvD5-flankR GTA CCC GCA CCA CCT GCT G
TbD1	<i>mmpS6</i> <i>mmpL6</i>	<b>2.1</b>	TBD1intS.F CGT TCA ACC CCA AAC AGG TA	TBD1fla1-F CTA CCT CAT CTT CCG GTC CA
			TBD1intS.R AAT CGA ACT CGT GGA ACA CC	TBD1fla1-R CAT AGA TCC CGG ACA TGG TG

<i>katG</i> , <i>gyrA</i> , <i>oxyR'</i> , <i>pncA</i> and <i>mmpL6</i>		PCR	and sequencing primers
<i>katG</i> <sup>463</sup>	<i>katG</i> -2154,225-PCR-F CTA CCA GCA CCG TCA TCT CA	<i>katG</i> -2154,872-SEQ-R ACA AGC TGA TCC ACC GAG AC	
	<i>katG</i> -2155,157-PCR-R AGG TCG TAT GGA CGAACCA CC		
<i>gyrA</i> <sup>95</sup>	<i>gyrA</i> -7,127-PCR-F GTT CGT GTG TTG CGT CAA GT	<i>gyrA</i> -7,461F CGG GTG CTC TAT GCA ATG TT	
	<i>gyrA</i> - 8,312-PCR-R CAG CTG GGT GTG CTT GTA AA		
<i>oxyR</i> ' <sup>285</sup>	<i>oxyR</i> 2725,559F TAT GCG ATC AGG CGT ACT TG	<i>oxyR</i> -2726,024-SEQ-R CAA AGC AGT GGT TCA GCA GT	
	<i>oxyR</i> -2726,024-PCR-R CAA AGC AGT GGT TCA GCA GT		
<i>pncA</i> <sup>57</sup>	<i>pncA</i> -2288,678-PCR-F ATC AGG AGC TGC AAA CCA AC	<i>pncA</i> - 2289,319-SEQ-R GGC GTC ATG GAC CCT ATA TC	
	<i>pncA</i> - 2289,319-PCR-R GGC GTC ATG GAC CCT ATA TC		
<i>mmpL6</i> <sup>551</sup>	<i>mmpL</i> -seq5F GTA TCA GAG GGA CCG AGC AG	<i>mmpL</i> -seq5F GTA TCA GAG GGA CCG AGC AG	
	TBD1fla1-R CAT AGA TCC CGG ACA TGG TG		

The RD nomenclature used in this table is based on that used by Brosch *et al.* (1) and differs from that proposed by Behr *et al.* (2). Primer sequences are shown in 5' → 3' direction.

More information on the exact location of the deleted regions can be obtained at  
<http://www.pasteur.fr/recherche/unites/Lgmb/>.

\* Regions where a second pair of internal primers was used rather than flanking primers, because of flanking repetitive regions, and/or mobile genetic elements.

## References

1. Brosch, R., Gordon, S. V., Eiglmeier, K., Garnier, T., Tekaia, F., Yeramian, E., & Cole, S.T. (2000) in *Molecular Genetics of Mycobacteria*, eds. Hatfull, G. F., & Jacobs, W. R., Jr. (Am. Soc. Microbiol., Washington, DC), pp. 19-36.
2. Behr, M. A., Wilson, M. A., Gill, W. P., Salamon, H., Schoolnik, G. K., Rane, S. & Small, P. M. (1999) *Science* **284**, 1520-1523.