

Table S1 Plasmids used in this study.

Plasmid	Description	Source or reference
Cloning vectors:		
pJET1.2/blunt	PCR products cloning vector, Amp ^R	Fermentas
p2NIL	Recombination vector, nonreplicating in mycobacteria, Kan ^R	(54)
pGOAL17	Source of PacI marker cassette (<i>sucB</i> , <i>lacZ</i>), Amp ^R	(54)
pJam2	Shuttle vector carrying inducible P _{ami} promoter, Kan ^R	(75)
pMV306Km	Mycobacterial integrating vector, Kan ^R	Med-Immune Inc.
pMV306Hyg	Mycobacterial integrating vector, Hyg ^R	Med-Immune Inc.
pMV306Gm	pMV306Km vector with a defective Kan ^R gene (the Gm ^R gene cloned into the SmaI site of the Kan ^R gene), Gm ^R	This study
pHIS.Parallel1	Protein expression vector, Amp ^R	(69)
Vectors used for gene replacement:		
pJPD6Ms	p2NIL-based recombination vector carrying the 5' end of <i>M. smegmatis accD6</i> and its upstream flanking sequence (1762 bp) cloned next to the 3' end of <i>accD6</i> and its downstream flanking sequence (1237 bp), enriched with the PacI cassette from pGOAL17, Kan ^R	This study
pJPD6Tb	p2NIL-based recombination vector carrying the <i>M. tuberculosis accD6</i> 5' end and its upstream flanking sequence (1595 bp) cloned next to the <i>accD6</i> 3' end and its downstream flanking sequence (1197 bp), enriched with the PacI cassette from pGOAL17, Kan ^R	This study
Vectors used for complementation in <i>M. tuberculosis</i>:		
pFASTb	PCR fragment harboring the promoter of the <i>M. tuberculosis</i> FAS-II operon and the first 114 bp of the <i>fabD</i> gene cloned into the NotI/XbaI site of the pMV306Gm integrative vector	This study
pFASTb1	PCR fragment carrying 795 bp of the 3' end of <i>fabD</i> , all of <i>acpM</i> and <i>kasA</i> , and the first 259 bp of <i>kasB</i> , cloned into the XbaI/EcoRI site of the pFASTb vector	This study
pFASTb2	PCR fragment carrying 1058 bp of the <i>kasB</i> 3' end and the full-length <i>accD6</i> gene cloned into the EcoRI site of pFASTb1 to generate a vector harboring a reconstitution of the whole and continuous <i>M. tuberculosis</i> FAS-II gene cluster (P _{fasII} FASII _{Mtb}) (Fig. 2A)	This study
pFD6Tb	PCR fragment carrying the full-length sequence of <i>M. tuberculosis accD6</i> (Rv2247) (1486 bp) cloned into the XbaI/HindIII site of the pMV306Hyg integrative vector	This study
pFD6Tb1	pFD6Tb with PCR fragment carrying the FAS-II promoter (1028 bp), cloned into the NotI/XbaI site upstream of the <i>accD6</i> gene sequence (P _{fasII} <i>accD6</i> _{Mtb}) (Fig. 2A)	This study
pPD6Tb	PCR fragment (2542 bp) carrying all of <i>accD6</i> (Rv2247) together with 1088 bp of upstream sequence (the 30 bp intergenic region and a 1058 bp fragment of <i>kasB</i>), cloned into the EcoRI site of the pMV306Gm integrative vector (P _{acc} <i>accD6</i> _{Mtb}) (Fig. 5B)	This study
Vectors used for complementation in <i>M. smegmatis</i>:		
pAceD6Ms	<i>accD6</i> _{Msm} under the control of the P _{ami} promoter in pJam2 vector, Kan ^R (P _{ami} <i>accD6</i> _{Msm})	This study
pAceD6Tb	<i>accD6</i> _{Mtb} under the control of the P _{ami} promoter in pJam2 vector, Kan ^R (P _{ami} <i>accD6</i> _{Mtb})	This study
pPD6Ms	PCR fragment (1637 bp) carrying all of <i>M. smegmatis accD6</i> (MSMEG_4329) and 180 bp of sequence upstream from the <i>accD6</i> start codon, cloned into the ClaI/EcoRI site of the pMV306Km vector	This study
pPD6Ms1	pPD6Ms with a PCR fragment (827 bp) upstream from the above-described 180 bp sequence, cloned into the ClaI site to generate pPD6Ms1 (P _{acc} <i>accD6</i> _{Msm}) (Fig. 5A)	This study
Vector used for overexpression of AccD6_{Mtb} protein:		
pHD6Tb	pHIS.Parallel1 expression vector with <i>accD6</i> _{Mtb} cloned into the BamHI/HindIII site	This study