Table-S1: BLAST hits for exclusive pathogenic genes in each of the non-pathogens considered in this study. The exclusive genes in *M. tuberculosis* H37Rv were used as reference for BLAST.

GENE PRODUCT	MTB	MSMEG		MGIL		MKMS		MVAN	
succinate-semialdehyde	Rv0234c	6452		4860		-		1844	
dehydrogenase	KV02540	46	88	36	90	-	-	43	89
	Rv0364	0750		0237		0512		0688	
Conserved membrane protein	KV0304	42	96	41	92	42	96	44	92
Orotate	Rv0382c	6520		1084		5212		5738	
phosphoribosyltransferase	KV0382C	38	65	31	86	34	86	32	86
	Rv0451c	0380		-		5264		3834	
Membrane protein	KV0431C	60	99	-	-	50	97	51	99
	Rv1404	5566		0546		5561		0537	
Transcriptional regulator	KV1404	32	75	25	76	25	76	25	76
	Rv1524	0385		-		3175		-	
Glycosyl transferase	KV1324	58	99	-	-	62	100	-	-
	Rv3484	0107		4737		1335		1726	
Hypothetical protein cpsA	103464	41	84	38	77	41	77	36	86
	Rv3631	3859		3118		2548		0886	
Glycosyl transferase	KV3031	25	93	25	93	26	93	30	80
	Rv3632	2455		-		-		-	
Conserved membrane protein	KV3032	54	24	-	-	-	-	-	-

^{*} The numbers in white row indicate the loci for each organism. For example, the best homolog hit for Rv0234c in *M. smegmatis* was found to be MSMEG_6452. Numbers in orange blocks indicate % identity, while the numbers in green blocks represent % coverage.