

A)

CLUSTAL O (1.2.4) multiple sequence alignment

Rv0934 (PstS-1)

<i>M. microti</i>	MKIRLHTLLAVLTAAPLLLLAAGCGSKPPSGSPETGAGAGTVATTPASSPVTLAETGSTL	60
<i>M. tuberculosis</i>	MKIRLHTLLAVLTAAPLLLLAAGCGSKPPSGSPETGAGAGTVATTPASSPVTLAETGSTL	60

<i>M. microti</i>	LYPLFNLWGPAFHERYPNVTITAQGTGSGAGIAQAAAGTVNIGASDAYLSEGDMAAHKGL	120
<i>M. tuberculosis</i>	LYPLFNLWGPAFHERYPNVTITAQGTGSGAGIAQAAAGTVNIGASDAYLSEGDMAAHKGL	120

<i>M. microti</i>	MNIALAISAQVNYNLPGVSEHLKLNKVLAAAMYQGTIKTWDDPQIAALNPGVNLPGTAV	180
<i>M. tuberculosis</i>	MNIALAISAQVNYNLPGVSEHLKLNKVLAAAMYQGTIKTWDDPQIAALNPGVNLPGTAV	180

<i>M. microti</i>	VPLHRSDGSGDTFLFTQYLSKQDPEGWGKSPGFGTTVDFAVPFALGGENGGMTGCAE	240
<i>M. tuberculosis</i>	VPLHRSDGSGDTFLFTQYLSKQDPEGWGKSPGFGTTVDFAVPFALGGENGGMTGCAE	240

<i>M. microti</i>	TPGCVAYIGISFLDQASQRLGGEAQLGNSSGNFLLPDAQSIQAAAAGFASKTPANQAISM	300
<i>M. tuberculosis</i>	TPGCVAYIGISFLDQASQRLGGEAQLGNSSGNFLLPDAQSIQAAAAGFASKTPANQAISM	300

<i>M. microti</i>	IDGPAPDGYPIINYEYAIVNNRQKDAATAQTLQAFHLHWAITDGNKASFLDQAHFQPLPPA	360
<i>M. tuberculosis</i>	IDGPAPDGYPIINYEYAIVNNRQKDAATAQTLQAFHLHWAITDGNKASFLDQVHFQPLPPA	360

<i>M. microti</i>	VVKLSDALIATISS* 374	
<i>M. tuberculosis</i>	VVKLSDALIATISS* 374	

B)

CLUSTAL O (1.2.4) multiple sequence alignment

Rv1886c (Ag85B)

<i>M. microti</i>	MTDVSRKIRAWGRRMIGTAAAVLPLGLVGLAGGAATAGAFSRPGLPVEYLQVPSMGR	60
<i>M. tuberculosis</i>	MTDVSRKIRAWGRRMIGTAAAVLPLGLVGLAGGAATAGAFSRPGLPVEYLQVPSMGR	60

<i>M. microti</i>	DIKVQFQSGGNNSPAVYLLDGLRAQDDYNGWDINTPAFEWYYQSGLSIVMPVGGQSSFY	120
<i>M. tuberculosis</i>	DIKVQFQSGGNNSPAVYLLDGLRAQDDYNGWDINTPAFEWYYQSGLSIVMPVGGQSSFY	120

<i>M. microti</i>	DWYSPACGKAGCQTYKWETFLTSELPQWLSANRAVKPTGSAAGLSMAGSSAMILAAYHP	180
<i>M. tuberculosis</i>	DWYSPACGKAGCQTYKWETFLTSELPQWLSANRAVKPTGSAAGLSMAGSSAMILAAYHP	180

<i>M. microti</i>	QQFIYAGSLSALLDPSQGMGPSLIGLAMGDAGGYKAADMWGPSSDPAWERNDPTQQIPKL	240
<i>M. tuberculosis</i>	QQFIYAGSLSALLDPSQGMGPSLIGLAMGDAGGYKAADMWGPSSDPAWERNDPTQQIPKL	240

<i>M. microti</i>	VANNTRLWVYCGNGTPNELGGANIPAEFLENFVRSSNLKFQDAYNAAGGHNAVFNPNG	300
<i>M. tuberculosis</i>	VANNTRLWVYCGNGTPNELGGANIPAEFLENFVRSSNLKFQDAYNAAGGHNAVFNPNG	300

<i>M. microti</i>	THSWEYWGQQLNAMKGDLQSSLGAG* 325	
<i>M. tuberculosis</i>	THSWEYWGQQLNAMKGDLQSSLGAG* 325	

Figure S1. Protein sequence translation and alignments of genes A) Rv0934 and B) Rv1886c from strains *M. microti* and *M. tuberculosis* used in this study.

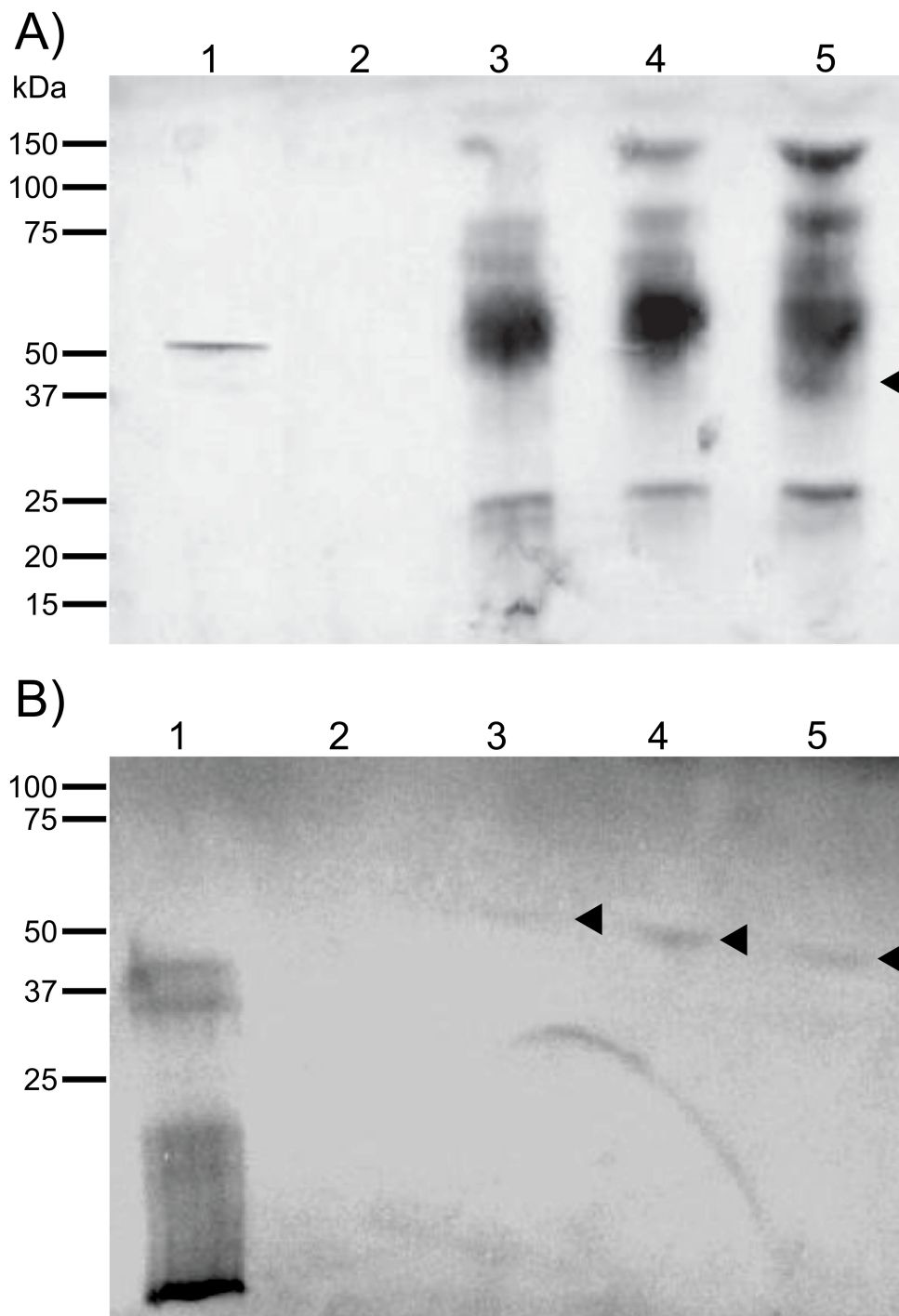


Figure S2. Differential expression and glycosylation of proteins from wild-type and recombinant *M. microti* strains. A) Mannose lectin blot, B) Sialic acid lectin blot.

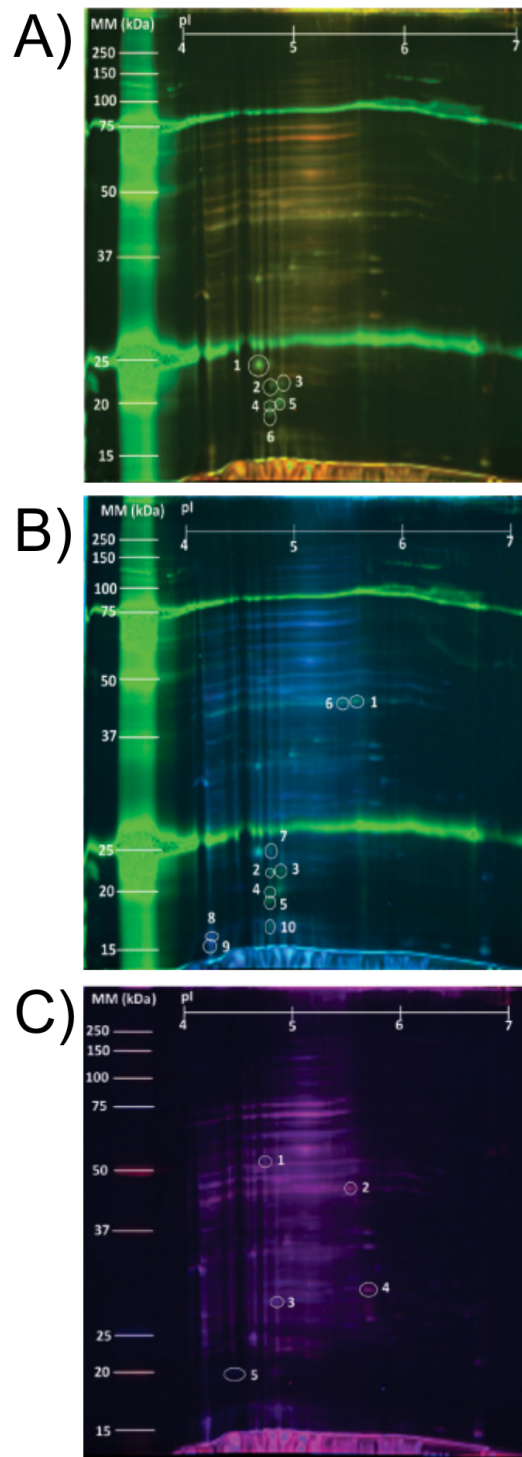


Figure S3. Two-dimensional fluorescence difference gel electrophoresis with labelled proteins from the cell extract of A) *M. microti* vs. *M. microti*-PstS-1, B) *M. microti* vs. *M. microti*-AG85B and C) *M. microti*-PstS-1 vs. *M. microti*-Ag85B.