

Supplementary Information

Phosphate Starvation: a Novel Signal that Triggers ESX-5 Secretion in *Mycobacterium tuberculosis*

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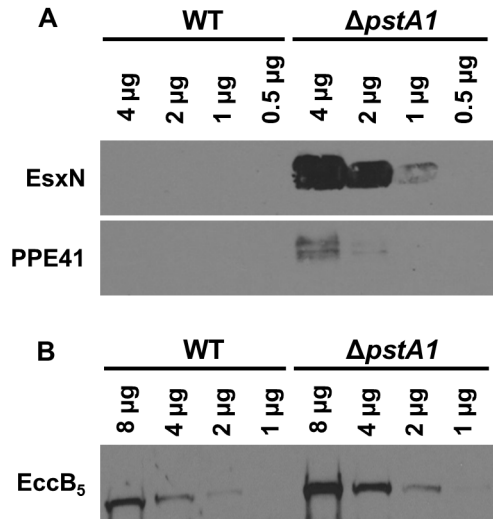


Figure S1. Quantification of ESX-5 proteins produced and secreted by the $\Delta pstA1$ mutant. Proteins were isolated from wild-type *M. tuberculosis* Erdman (WT) or the $\Delta pstA1$ mutant cultured in Sauton's complete medium without Tween-80 for 5 days. The indicated amounts of culture filtrate (A) or cell lysate (B) were subjected to SDS-PAGE and Western blot analysis. Antibodies used are indicated.

Supplementary Table 1. Oligonucleotides used for real-time quantitative RT-PCR (qRT-PCR), EMSA probes, and standard RT-PCR.

Gene or primer	F primer sequence (5'-3')	R primer sequence (5'-3')
<i>sigA</i>	TGCAGTCGGTGCTGGACAC	CGCGCAGGACCTGTGAGCGG
16S <i>rRNA</i>	GAGATACTCGAGTGGCGAAC	GGCCGGCTACCCGTCGTC
<i>esxM</i>	GGCGGGCCGTTTTGAG	CGCGGACGCCCACAT
<i>esxN</i>	TCAGGCCATCGTTCGTGAT	TGGAAGTTACGGCCCAACTG
<i>espG</i> ₅	CGTTGCGCCTGAGTTACGTT	CTCGTTTAGCCAGTCATTGGAA
<i>eccD</i> ₅	CCAACGCCCCAGTTTCG	AGCCTCACCGAGCTCTCTGA
<i>mycP</i> ₅	CGTGCATGCTGCCAACAT	GTGCACGCTGGTCGATGA
<i>ppe41</i>	GGTCCAGTGGTGATGCAGTT	CACACAGAGGTCGGTCAGC
<i>eccB</i> ₅	TGACGCCGGAGCAGGTTA	GGCAAAGCGTCGAACAATG
<i>modD</i>	CGGTTGGAGGATTCAGCTT	GTGCTGAACCGTAGTCGAAGT
<i>espA</i>	GGCGCCAAGAAAGGTCTC	CCGGGATGTAGGTCAGGTC
<i>esxB</i>	GGCAGAGATGAAGACCGATG	ACCTGGTGCATCTGGGTTT
<i>ppe27-pe19 Ig1</i>	CGCTGTTACTGTGGCGTTACC	CCCGTTTCGCAAGTGTTTAC
<i>ppe27-pe19 Ig3</i>	CGGGTGGCATCGAAATCA	GCAACGGCTCTCTGCAAGA
<i>ppe27-pe19 Ig4</i>	TCTTGCAGAGAGCCGTTGCT	CGGCTGTGTGGTCACGAA
<i>pe19</i>	GGCGAACTACAGGGTATTGG	GCACTACTCCGGTGGTTGGA
<i>dnaN</i>	TTTTCTGCGGGTGCCGATGATG	TTCCGAGCGCAACGAACTCAA
<i>esxNR3</i>		TGGAAGTTACGGCCCAACTG
<i>espG5R1</i>		TCATACTCTGCTGTGTGTTTTCCACT