

Supplementary Information for

Monitoring IgG against *Mycobacterium tuberculosis* proteins in an Asian elephant cured of tuberculosis that developed from long-term latency

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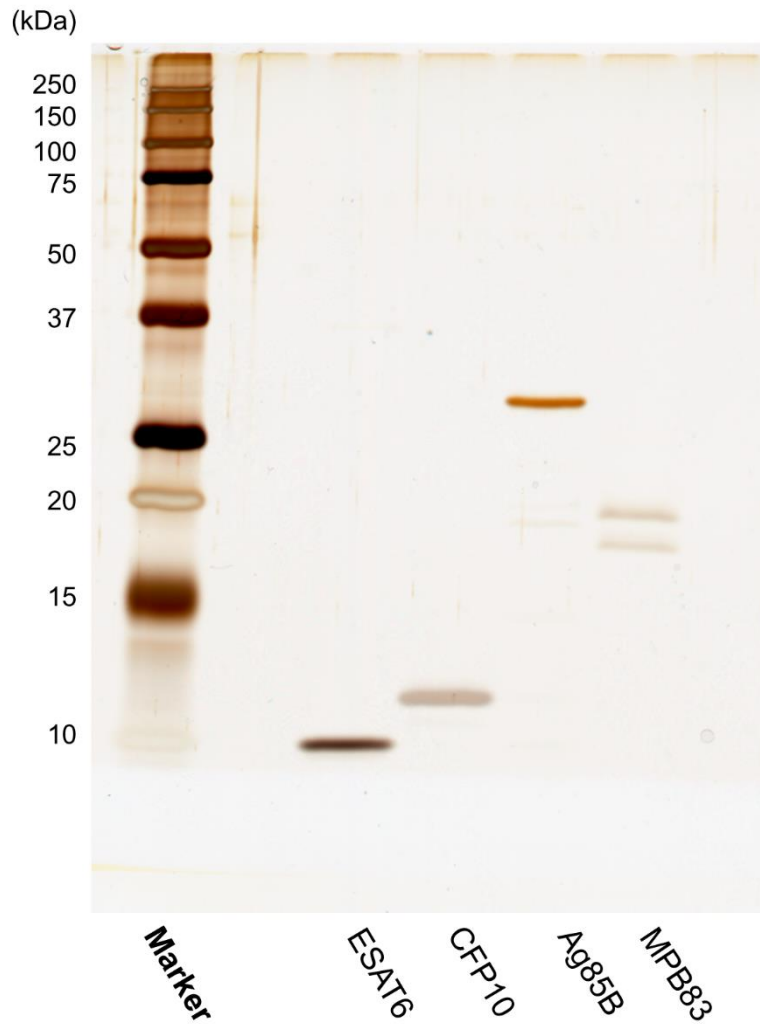
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Supplemental Table 1

<u>CATATGATTA</u>	ATGTTCAAGC	GAAACCGGCG	GCGGCGGCGA	GCCTGGCGGC
1	11	21	31	41
GATTGCGATT	GCGTTCCTGG	CGGGTTGCAG	CAGCACCAAA	CCGGTTAGCC
51	61	71	81	91
AGGACACCAG	CCCGAAGCCG	GCAACCAGCC	CGGCAGCACC	GGTTACCACC
101	111	121	131	141
GCGGCGATGG	CGGACCCGGC	AGCAGATCTG	ATTGGTCGTG	GCTGCGCACA
151	161	171	181	191
GTATGCAGCA	CAAAACCCGA	CCGGTCCGGG	CAGCGTGGCA	GGTATGGCAC
201	211	221	231	241
AAGACCCGGT	TGCAACCGCA	GCAAGCAACA	ACCCGATGCT	GAGCACCCCTG
251	261	271	281	291
ACCAGCGCAC	TGAGCGGCAA	GCTGAACCCG	GACGTGAACC	TGGTTGATAC
301	311	321	331	341
CCTGAACGGT	GGCGAGTACA	CCGTGTTCGC	GCCGACCAAC	GCGGCGTTTG
351	361	371	381	391
ATAAACTGCC	GGCGGCGACC	ATTGACCAGC	TGAAGACCGA	TGCGAAACTA
401	411	421	431	441
CTGAGCAGCA	TCCTGACCTA	TCACGTTATT	GCAGGTCAAG	CGAGCCCGAG
451	461	471	481	491
CCGTATTGAT	GGCACCCACC	AGACCCTGCA	GGGTGCGGAT	CTGACCGTGA
501	511	521	531	541
TTGGTGCGCG	TGACGATCTG	ATGGTTAACA	ACGCGGGTCT	GGTGTGCGGT
551	561	571	581	591
GGCGTTCACA	CCGCGAACGC	GACCGTTTAC	ATGATTGACA	CCGTTCTGAT
601	611	621	631	641
GCCGCCGGCG	<u>CAGCACCACC</u>	<u>ACCACCACCA</u>	<u>CTAATAGGTA</u>	<u>CC</u>
651	661	671	681	691

The DNA sequence encoding MPB83 with addition of a NdeI site (blue underline, 1-6) at the N terminal, 6XHistidine (red underline, 664-681) and a KpnI site (blue underline, 587-692) at the C terminal

Supplemental Figure 1



SDS-PAGE of purified proteins

Purified proteins were analyzed with SDS-PAGE with 15% polyacrylamide gel, followed to detect with silver stain.

Supplemental Figure 2



Nov. 2003



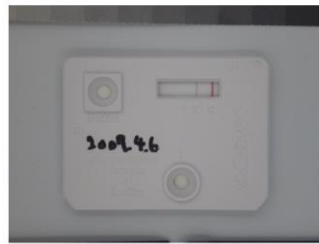
Dec. 2004



Dec. 2005



Feb. 2006



Apr. 2007



Jul. 2011



Feb. 2014



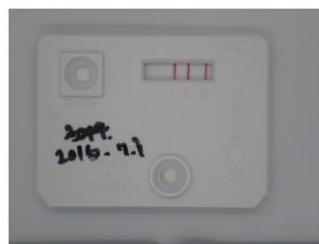
Dec. 2015



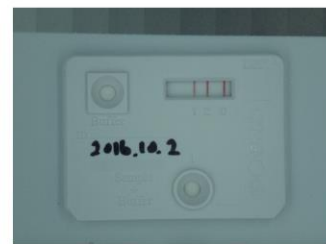
Feb. 2016



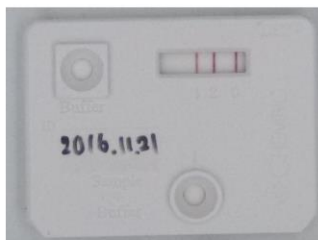
May. 2016



Jul. 2016



Oct. 2016



Nov. 2016



Dec. 2016



Mar. 2017



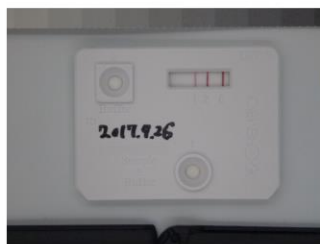
Apr. 2017



May. 2017



Jul. 2017



Sep. 2017



Dec. 2017



Mar. 2018



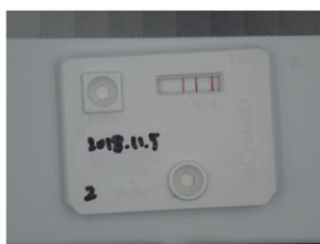
May. 2018



Jul. 2018



Sep. 2018



Nov. 2018



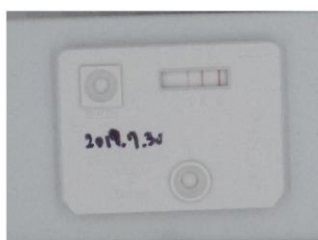
Jan. 2019



Mar. 2019



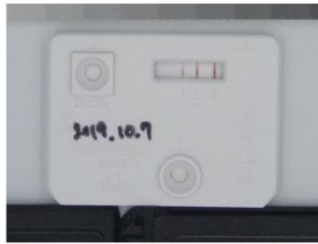
May. 2019



Jul. 2019



Sep. 2019



Oct. 2019



Dec. 2019



One of the
healthy elephants

Uncropped images of DPP results with 32 sera from the TB positive elephant and one of the sera from the healthy elephants

Full images of DPP results in Figure 2 were presented as Supplemental Figure 2.

Thirty-two images from Nov. 2003 to Dec. 2019 show the results of DPP performed with sera collected at different time points from the TB positive elephant. The last image with the words "One of the healthy elephants" is the same one as A-c in Figure 2.

In the test windows, the appearance of the red line on the left (T1 line) and the red line in the middle (T2 line) indicate the presence of MPB83 and ESAT6/CFP10 antibodies, respectively. The red line on the right is the control: if it does not appear, the test is invalid.