

Supplementary Material 4. Mitochondrial gene sequence divergence between African

(RS460) and Asian elephant lice (B1567, SRR5308122 and SRR2051491)

Gene	Sequence divergence (%)		
	RS460 vs B1567	RS460 vs SRR5308122	RS460 vs SRR2051491
<i>cob</i>	27.56	27.23	27.66
<i>cox1</i>	17.05	17.05	16.89
<i>cox2</i>	20.61	21.05	21.05
<i>cox3</i>	24.73	25.00	25.00
<i>nad1</i>	26.61	26.81	27.01
<i>nad3</i>	29.82	30.12	29.82
<i>nad4</i>	37.86	38.84	38.84
<i>nad4L</i>	25.53	25.53	25.53
<i>rrnS</i>	24.60	24.60	24.48
<i>rrnL</i>	18.37	18.11	18.37
<i>A</i>	31.51	31.51	27.54
<i>C</i>	25.68	25.68	25.68
<i>E</i>	26.76	26.76	26.76
<i>F</i>	23.08	23.08	25.00
<i>G</i>	26.03	27.40	25.93
<i>L₂</i>	12.99	12.99	12.99
<i>M</i>	9.09	9.09	9.09
<i>R</i>	23.94	23.94	23.94

<i>S</i> ₂	20.00	20.00	20.00
<i>T</i>	16.00	16.00	16.00
<i>V</i>	9.59	9.59	13.70
<i>W</i>	27.27	25.97	25.97
<i>Y</i>	23.94	23.94	23.94
23 genes combined	23.61	23.66	23.71

Note: See Table 1 for gene name annotations. Sources of louse specimens are: RS460 from an African savanna elephant, Manyeleti Nature Reserve, Mpumalanga Province, South Africa; B1567 from Asian elephants, Chitwan National Park, Nepal (Shao et al. 2015); SRR5308122 from an Asiatic elephant, Mae Taeng, Chiang Mai Province, Thailand; and SRR2051491 from Asiatic elephants, Zoological Garden Leipzig, Germany.