

Table S5: Primer sets used to amplify 5 modern mitogenomes for FLX sequencing. Primer set names as from Table S4, primer sets from Pr3 to 14.3+Pr3 t make up shorter regions of the LF fragment. Pr1 and Pr2 are shorter primers to cover the hypervariable region of the control region, while the last four are to fill in gaps throughout the mitogenome.

Sample	Species	SF	LF	Pr3	LF+ Pr3.2	6.3+ 11.3	1.6+ 7.8	10.5+ 15.4	14.3+ Pr3	Pr1	Pr2	16.2+ 16.4	16.5+ 16.6	1.8+ 2.0	1.4+ 1.6	
Kulan	<i>E. hemionus kulan</i>	x				x	x	x	x	x	x	x				x
1023	<i>E. zebra</i>	x		x	x	x	x			x			x			
1041	<i>E. zebra</i>	x	x			x	x	x	x	x			x			
6390	<i>E. grevyi</i>	x	x							x		x	x	x		
6381	<i>E. quagga chapmani</i>	x	x							x						x