

Table S1. The overall population statistics with/without hybrids.

Population with hybrids	<i>n</i>	Loci typed	$H_E \pm SD$	$H_O \pm SD$	$NA \pm SD$
Red deer	63	11	0.8415 ± 0.0180	0.7305 ± 0.0171	13.00 ± 2.83
Sika deer	60	11	0.6809 ± 0.0327	0.6386 ± 0.0189	7.64 ± 2.20
Population without hybrids					
Red deer	54	11	0.8340 ± 0.0194	0.7168 ± 0.0187	12.18 ± 2.93
Sika deer	56	11	0.6680 ± 0.0343	0.6382 ± 0.0196	6.55 ± 1.92

H_E = expected heterozygosity; H_O = observed heterozygosity; NA = No of Alleles;
 SD = standard deviation