

**Table S4.** Alleles of microsatellites, which were occurred in museum samples, but were lost in modern populations and novel alleles, which are appeared in modern populations

Locus	Allele	Lost alleles			Emerged alleles		
		KALM_H	KRGZ_H	KZKH_H	KALM_M	KRGZ_M	KZWH_M
TGLA227	75	-	-	-	0.018	-	-
	77	-	-	-	0.089	-	0.017
	79	-	-	-	-	0.050	0.017
	83	-	-	-	0.071	-	0.100
	87	-	-	-	-	-	0.067
	93	-	-	-	-	-	0.200
	99	-	-	-	-	0.050	-
	101	-	0.045	-	-	-	-
BM2113	125	-	-	-	-	0.075	0.117
	129	0.100	-	0.167	-	-	-
	131	-	-	-	-	0.025	-
	133	-	-	-	-	-	0.267
	135	-	-	-	-	-	0.200
	141	-	-	-	0.089	0.050	0.150
TGLA53	152	-	-	-	0.045	-	-
	154	-	-	-	-	-	0.117
	156	-	-	-	0.091	-	-
	158	-	0.056	-	-	-	-
	162	-	-	-	-	0.050	-
	170	-	-	-	-	0.250	-
	172	-	-	-	-	0.075	0.267
	174	-	-	-	0.023	-	-
	178	-	-	-	-	0.025	-
	182	0.100	0.056	-	-	-	-
	186	-	-	-	0.045	-	-
ETH10	209	-	-	-	-	0.025	-
	215	-	-	-	0.036	-	-
	223	-	-	-	0.054	-	-
	225	-	0.045	-	-	-	-
SPS115	250	-	-	-	-	0.025	-
	252	-	-	-	0.054	-	0.133
	254	-	-	-	-	-	0.083
	258	-	-	-	-	0.050	-
	260	-	-	-	-	-	0.250
	262	-	-	-	-	0.025	0.050
TGLA122	137	-	-	-	0.054	-	-
	139	-	-	-	-	-	0.017
	141	-	-	-	0.018	-	0.017
	145	-	-	-	-	0.075	-
	149	-	-	-	-	0.050	0.017
	153	-	-	-	0.054	-	-
	161	-	-	-	-	-	0.317

	163	-	-	-	-	0.025	-
	165	0.050	-	-	-	-	-
	167	-	0.045	-	-	-	-
	169	-	-	-	-	-	0.033
	173	-	-	0.167	-	-	-
	179	-	-	-	-	0.075	-
	183	-	-	-	-	-	0.100
INRA23	200	-	-	0.167	-	-	-
	208	-	-	-	-	-	0.050
	210	-	-	-	0.071	-	0.017
	212	-	-	-	-	-	0.033
	214	-	-	-	-	-	0.700
	216	0.050	-	-	-	-	-
	218	-	-	-	0.018	-	-
TGLA126	107	-	0.045	-	-	-	-
	119	-	-	-	0.058	0.100	0.050
	123	-	-	-	-	-	0.067
	125	-	-	-	-	0.025	-
BM1818	256	0.050	-	-	-	-	-
	258	-	-	-	0.143	0.050	-
	264	-	-	-	-	0.050	0.033
	268	-	-	-	-	0.025	-
	272	-	-	-	-	0.025	0.017
	274	-	0.0625	-	-	-	-
ETH225	140	-	-	-	-	0.075	0.267
	142	-	-	-	-	0.025	0.017
	146	-	-	-	-	-	0.367
	146	0.100	-	-	-	-	-
	148	-	-	-	-	-	0.117
	152	0.050	-	-	-	-	-
BM1824	184	-	-	-	-	0.025	-
	186	-	-	-	0.054	-	-
	190	-	-	-	0.018	0.050	-

Notes: Locus – locus of microsatellite, Allele – allele of microsatellites, lost alleles – alleles, which were present in museum samples but were lost in modern populations, emerged alleles – novel alleles which are appeared in modern populations, museum populations: KALM\_H – Kalmyk, KRGZ\_H – Kyrgyz, KZKH\_H – Kazakh, modern populations: KALM\_M – Kalmyk, KRGZ\_M – Kyrgyz, KZWH\_M – Kazakh White-Headed.