

Table S1. Seventeen microsatellite loci and their PCR conditions and allele size ranges in domestic yak populations

Locus Name	Chr*	Primer sequence (5' - 3') Forward (above) and Reverse (below)	A.T. (°C)	Forward primer Label	Allele range (base pairs)
AGLA293 (D5S13)	5	GAAACTCAACCCAAGACAACCTCAAG ATGACTTTATTCTCCACCTAGCAGA	55	FAM	210-240
BM1824 (D1S34)	1	GAGCAAGGTGTTTTTCCAATC CATTCTCCAACCTGCTTCCTTG	58	TET	180-194
BM2113 (D2S26)	2	GCTGCCTTCTACCAAATACCC CTTCCTGAGAGAAGCAACACC	58	TET	123-151
ETH152 (D5S1)	5	TACTCGTAGGGCAGGCTGCCTG GAGACCTCAGGGTTGGTGATCAG	55	TET	194-212
ETH225 (D9S1)	9	GATCACCTTGCCACTATTTCT ACATGACAGCCAGCTGCTACT	65	FAM	144-162
ILSTS008 (D14S15)	14	GAATCATGGATTTTCTGGGG TAGCAGTGAGTGAGGTTGGC	58	FAM	175-187
ILSTS013 (D9S10)	9	CTTGATCCTTATAGAACTGG ACACAAAATCAGATCAGTGG	58	HEX	121-135
ILSTS028 (D11S63)	11	TCCAGATTTTGTACCAGACC GTCATGTCATACCTTTGAGC	55	FAM	131-165
ILSTS050 (D2S45)	2	AAATCAGACACCCAGTTTCC GTTTTTCTACACGAGTTGGC	55	TET	161-183
MGTG4B (D4S5)	4	GAGCAGCTTCTTTCTTTCTCATCTT GCTCTTGGAAGCTTATTGTATAAAG	55	FAM	112-138
MGTG7 (D23S5)	23	TTCATTGCAGCACTATTTACAATAG TAAGTCCCTGTATCATTTTTTTGAA	55	TET	278-312
SPS115	15	AAAGTGACACAACAGCTTCTCCAG AACGAGTGTCCCTAGTTTGGCTGTG	65	TET	234-254
TGLA122 (D21S6)	21	CCCTCCTCCAGGTAATCAGC AATCACATGGCAAATAAGTACATAC	55	HEX	143-175
TGLA126 (D20S1)	20	CTAATTTAGAATGAGAGAGGCTTCT TTGGTCTCTATTCTCTGAATATTCC	55	HEX	107-121
TGLA53 (D16S3)	16	GCTTTCAGAAATAGTTTGCATTCA ATCTTCACATGATATTACAGCAGA	55	TET	151-181
TGLA57 (D1S8)	1	GCTTTTTAATCCTCAGCTTGCTG GCTTCCAAAACCTTACAATATGTAT	55	FAM	77-99
TGLA73 (D9S3)	9	GAGAATCACCTAGAGAGAGGCA CTTTCTTTTAAATTCTATATGGT	55	FAM	111-143

* Cattle chromosome assignments are given.

A.T., annealing temperature for PCR amplification.