

Supplementary Files: Identification of Ovine KRTAP28-1 and Its Association with Wool Fibre Diameter

(A)

hKAP23 - 1	.MSYNCCCGNFSSHSCEGYLCYSGGYSRGGSSYPSN..LVYSTEPLISQHL	47
sKAP28 - 1	.MSSNDSCSGNNNDSCSLGSYCHPVVNSSTTLYFTG..VNYGDAFDFSSRN	47
sKAP3 - 1MACCAPRCCSVRTGPATTICSSDKFCRCGVCLPSTCPH	38
sKAP3 - 2MACCAPRCCSVRTGPATTICSSDKFCRCGVCLPSTCPH	38
sKAP3 - 3MACCARLCCSVPTTPATTICSSDKFCRCGVCLPSTCPH	38
hKAP25 - 1	MHNRSQGFFFSSCHPQNHVSYGCQSPSFIFCRCQSLNVFSRTCYPLSYFS	50
hKAP23 - 1	PAGFLSLQGLSGDLLGNP.....	65
sKAP28 - 1	KTWLLDNPETRDKLSSYQPSSCEPTTYKTSHYSSTLNCGHRCYEQLVLS	97
sKAP3 - 1	NISLLQPTCCCDNSPVPVCVYPDTYVPTCFLNNSHPTPGLSGINLTTFIQP	88
sKAP3 - 2	DISLQPTCCCDNSPVPVCVYPDTYVPTCFLNNSHPTPGLSGINLTTFIQP	88
sKAP3 - 3	TWVFLEPPTCCCDNRPPCHIPQPSVPTCFLNNSQPTPGLESINLTTYTQP	88
hKAP25 - 1	YGNQTIGSISNSFRSLNYVSHSFQPIISFMHSSFQPACSDFVGWQSPFLRR	100
hKAP23 - 1	65
sKAP28 - 1	PLVRISPVLVNRQCIMCVVCVVAHTLHVQLFVTP	135
sKAP3 - 1	GCEENVCEPRC.....	98
sKAP3 - 2	GCEENVCEPRC.....	98
sKAP3 - 3	SCEPCIPSCC.....	98
hKAP25 - 1	TC.....	102

(B)

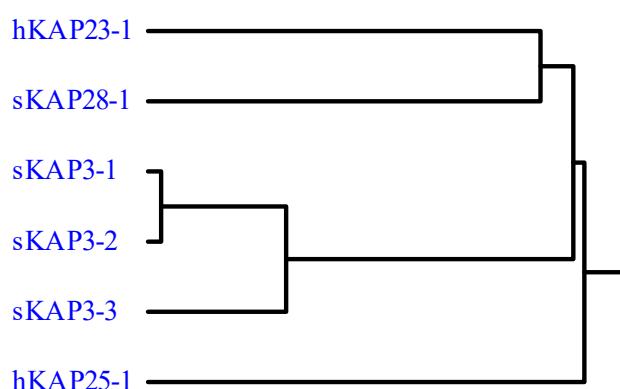


Figure S1. Comparison of the predicated amino acid sequences of the newly identified ovine KAP28-1 gene and other similar KAP genes. Three ovine KAP3-n genes and the human KAP23-1 gene that are shown to be most related to ovine KAP28-1 in Figure 1 are used for the comparison, together with the human KAP25-1 gene. The alignment of these sequences is shown (A), together with the sequence homology tree (B). The ovine KAPs are indicated with a prefix “s”, while the human KAPs are indicated with “h”. The GenBank accession numbers for other KAP genes are: M21099 (sKAP3-1), M21100 (sKAP3-2), M21103 (sKAP3-3), NM_181624 (hKAP23-1) and NM_001128598 (hKAP25-1).