

goat CDK8 (XP_005687614.1)	MDYDFKVKLSSERERVEDLFYEYGCKVGRGTYGHVYKAKRKDGKDDKDYLKQIEGTGIS	60
goat CDK19 (XP_017908559.1)	-----	1
goat CDK8 (XP_005687614.1)	MSACREIALLRELKHNPVISLQKVFLSHADRKVWLFDYAEHDLWHIIKFHRASKANKP	120
goat CDK19 (XP_017908559.1)	.....A.....S.....	60
goat CDK8 (XP_005687614.1)	VQLPRGMVKSLLYQILDGIHYLHANWVLHRDLKPANILVMGEGPERGRVKIADMGFARLF	180
goat CDK19 (XP_017908559.1)	M.....S.....	120
goat CDK8 (XP_005687614.1)	NSPLKPLADLDPVVVTFWYRAPELLL GARHYTKAIDIWAIGCIFAELLTSEPIFHCRQED	240
goat CDK19 (XP_017908559.1)	.....	180
goat CDK8 (XP_005687614.1)	IKTTSNPYHHDQLDRIFNVMGFPADKDWE DIKKMPEHSTLMKDFRRNNTYTNCSLIKYMEKH	300
goat CDK19 (XP_017908559.1)	.....F.....S.....R....YP..Q.....T..A.S.....	240
goat CDK8 (XP_005687614.1)	KVKPDSKA FHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTSDVFAGCQIPYPKREFLT	360
goat CDK19 (XP_017908559.1)	.....V.L.....T.....L.....Q.....L.....N	300
goat CDK8 (XP_005687614.1)	EEEPDDKGDKKNQQQ-----PGNNHTNGTG----HPG---	389
goat CDK19 (XP_017908559.1)	.D..EE....NQ....NQHQQPTAPPQAAAPPQAPPQQQNSTQ....AGGAGAG.AGAG	360
goat CDK8 (XP_005687614.1)	--NQDSSHTQGPPLKKVRVPPPTTSGGLIMTS DYQRSNPHAA YPNPGPSTSQPQSSMG	446
goat CDK19 (XP_017908559.1)	LQHS...GLN.V..N..P..LG.SG.N...PV.P...H.SSRLN.QSSVQGS..S..TL.	420
goat CDK8 (XP_005687614.1)	YSTTSQQPPQY--SHQTHRY 464	
goat CDK19 (XP_017908559.1)	..SS...SA..HP...A... 440	

**Figure S1.** A protein sequence alignment between CDK8 and CDK19 in goat.

**Table S1.** Details of the primers in this study and their corresponding amplicon size.

Genes	Reference	Primer pair with sequence (5'-3') <sup>a</sup>	Primer length (nt)	TA <sup>b</sup> (°C)	Amplicon size <sup>c</sup> (bp)
circRNA-1926	[16]	F: GGTGGCATCGATAATCCTGC R: ACAGATCCCACATTTCAGAACT	20 22	55	182
Keratin 6	XM_018049019.1 in GenBank	F: CAGTCGCAGCCTCTACAACCT	21	56	159
		R: CAAATGCCACCTCCATAACCA	21		
Keratin 7	XM_005680100.3 in GenBank	F: GAGTTTGTGGTGTGAAGAA	20	56	194
		R: AAGTCCAGGGAGCGGTTGTT	20		
Keratin 8	XM_005679931.3 in GenBank	F: TCCTTCAGCAGCCGCTCTA	20	58	160
		R: CTGTAATGCCCCCCAACACT	20		
Keratin 16	XM_013972083.2 in GenBank	F: CCTTTGTGGCTAGTGGTATG	20	55	188
		R: CAGTTTCAGGGGTTGCTTAT	20		
Keratin 17	XM_018065055.1 in GenBank	F: GGGGAATGAAACAGAGGAG	20	56	112
		R: GAGGAGAGAAGCCCAAGATG	20		
CDK19	XM_005684572.3 in GenBank	F: TGAGAGGGGAGAGTCAAAATA R: ACCAGAAAGTCACAACACTACAGG	22 22	55	104
UBC	[23]	F: GCATTGTTGGGTTCTGTGT R: TTTGCATTTGACCTGTGAG	20 20	52	90
YWHAZ	[23]	F: TGTAGGAGCCCGTAGGTCATCT R: TTCTCTCTGTATTCTCGAGCCATCT	22 25	56	102
SDHA	[23]	F: AGCACTGGAGGAAGCACAC R: CACAGTCGGTCTCGTTCAA	19 19	53	105
CDK19 <sup>d</sup>	The present study	F: TTGAATGTTAGTTTGAAAT R: ACAACTCCCATACTAACATAAA	22 22	55	544
miR-152-3p	MIMAT0000162 in miRBase	F: CGTCAGTGCATGACAGAACTTGG	23	62	N.A.
miR-148a-3p	MIMAT0035977 in miRBase	F: CGTCAGTGCACTACAGAACTTTGT	24	60	N.A.
miR-148b-3p	MIMAT0035979 in miRBase	F: CGTCAGTGCATCACAGAACTTTGT	24	62	N.A.
miR-642a-5p	MIMAT0003312 in miRBase	F: CGGTCCCTCTCCAAATGTGTCTTG	24	63	N.A.
let-7d-5p	[24]	F: CGAGAGCTAGTAGGTTCCATAGTT	24	62	N.A.
miR-26a-5p	[24]	F: CGTTCAAGTAATCCAGGATAGGCT	24	61	N.A.
miR-15a-5p	[24]	F: CGTAGCAGCACATAATGGTTGTG	24	63	N.A.

<sup>a</sup> F: forward, R:reverse; <sup>b</sup> TA annealing temperature; <sup>c</sup> N.A.: not available; <sup>d</sup> CDK19 was used for the designing of BSP primers.