

Supplementary Materials

Table S1. Primer information

Gene name		5'-3'	Length	Note
<i>ANGPT1</i>	F	GGTGGGGCAATGAGAGGAAA	150	Exonic-CNV1
	R	ACAGGGTGTATGGAGAGCCT		Chr14:24950807-249509
				37
	F	GTGGTTGGGGAGTTCCAAGT	233	Intronic-CNV2
	R	CCAGTTACTCAGGCTCCACG		Chr14:25041614-250418
				27
	F	CAAAGAGTAGAGATGGGAAAGGCCA	135	Intronic-CNV3
	R	TTACCCTTACGTCTTCTGTGCC		Chr14:25113621-251137
				34
<i>MC1R</i>	F	GGGCAGTCCCTTGACAAAGA	129	CNV-qPCR
	R	ATCTCCCCAGCCTCCTCATT		
<i>ANGPT1</i>	F	GAAGGGTCACACTGGGACAG	134	mRNA-qPCR
	R	CAAACCACCAGCCTCCTGTT		
<i>GADPH</i>	F	TGAAGGTCGGTGTGAACGGATTTGG	277	mRNA-qPCR
	R	ACGACATACTCAGCACCAGCATCAC		

Table S2. The copy number spectrum of three CNVs in goat *ANGPT1* gene.

CNVs	Copy Number Spectrum							
	1 copy	2	3	4	5	6	7	8
		copies	copies	copies	copies	copies	copies	copies
CNV-1	0	319	61	37	-	-	-	-
CNV-2	31	245	94	46	-	-	-	-
CNV-3	53	201	137	17	2	4	1	2

Table S3. The association analysis between the traits and the goat *ANGPT1* CNV-2.

Traits	CNV Types (Mean \pm SE)			<i>p</i>
	Loss	Normal	Gain	values
	(1 Copy)	(2 Copies)	(≥ 3 Copies)	
	(<i>n</i> = 31)	(<i>n</i> =245)	(<i>n</i> = 140)	
body weight (BW, kg)	20.14 \pm 0.22	20.39 \pm 0.17	21.03 \pm 0.16	0.037
Carcass weight (CW, kg)	9.07 ^b \pm 0.18	9.32 ^b \pm 0.21	9.98 ^a \pm 0.15	0.025
shear stress (SS, N)	48.79 ^a \pm 0.28	48.46 ^b \pm 0.12	46.33 ^b \pm 0.21	0.043