

**Table S2.** Associations for the SNPs of *IGF1* gene with body weight traits and ADG traits in Hulun Buir sheep (mean  $\pm$  SE, n = 229)

SNPs	Genotypes	Body weight (kg)			Average daily gain (ADG) (g)		
		BW	WW	NBW	0-4 ADG	4-9 ADG	0-9 ADG
SNP1	GG (225)	4.21 $\pm$ 0.04	23.32 $\pm$ 0.47	32.36 $\pm$ 0.50	153.35 $\pm$ 3.47	62.19 $\pm$ 1.27	104.47 $\pm$ 1.76
	GA (4)	4.70 $\pm$ 0.16	30.48 $\pm$ 1.82	39.60 $\pm$ 0.83	200.75 $\pm$ 12.96	63.66 $\pm$ 9.52	128.41 $\pm$ 2.27
SNP2	TT (113)	4.21 $\pm$ 0.06	22.80 $\pm$ 0.67	31.96 $\pm$ 0.73	150.49 $\pm$ 5.08	63.21 $\pm$ 1.56	103.48 $\pm$ 2.61
	TC (102)	4.23 $\pm$ 0.07	24.33 $\pm$ 0.70	33.35 $\pm$ 0.72	160.02 $\pm$ 5.00	61.74 $\pm$ 2.20	107.57 $\pm$ 2.48
	CC (14)	4.24 $\pm$ 0.14	22.33 $\pm$ 1.72	30.79 $\pm$ 1.85	143.53 $\pm$ 12.40	58.39 $\pm$ 3.91	98.07 $\pm$ 6.41
SNP3	GG (147)	4.22 $\pm$ 0.06	23.02 $\pm$ 0.59	32.09 $\pm$ 0.62	151.10 $\pm$ 4.34	<b>62.22 <math>\pm</math> 1.46<sup>a</sup></b>	103.43 $\pm$ 2.16
	GA (76)	4.26 $\pm$ 0.07	24.17 $\pm$ 0.79	33.38 $\pm$ 0.87	159.16 $\pm$ 5.92	<b>63.70 <math>\pm</math> 2.45<sup>a</sup></b>	108.05 $\pm$ 3.10
	AA (6)	3.78 $\pm$ 0.23	24.45 $\pm$ 2.26	30.52 $\pm$ 2.56	166.58 $\pm$ 15.09	<b>42.17 <math>\pm</math> 4.83<sup>b</sup></b>	99.88 $\pm$ 8.60

BW = birth weight; WW = Weaning weight; NBW = weight at 9-month of age; 0-4 ADG, 4-9 ADG and 0-9 ADG represent the average daily weight gain before weaning, after weaning and from birth to 9-month of age, respectively. Different letter (small letters:  $p < 0.05$ ; capital letters:  $p < 0.01$ ) superscripts with boldface font in a column indicate significant differences among the different genotypes.