

Table S5. Associations for the SNPs of *IGF1R* gene with body size traits in Hulun Buir sheep
(mean \pm SE, n = 229)

SNPs	Genotypes	Weaned body size (cm)			Body size of 9-month (cm)		
		WBH	WBL	WCG	NBH	NBL	NCG
SNP4	CC (227)	56.02 \pm 0.36	57.22 \pm 0.46	68.39 \pm 0.50	63.71 \pm 0.29	66.80 \pm 0.34	83.35 \pm 0.52
	CT (2)	58.50 \pm 1.50	60.25 \pm 1.75	73.00 \pm 4.00	64.00 \pm 0.01	69.00 \pm 2.00	81.50 \pm 2.50
SNP5	GG (187)	55.92 \pm 0.40	57.17 \pm 0.53	68.50 \pm 0.56	63.80 \pm 0.32	66.62 \pm 0.37	83.35 \pm 0.58
	GA (42)	56.61 \pm 0.72	57.58 \pm 0.84	68.11 \pm 0.97	63.32 \pm 0.61	67.70 \pm 0.87	83.25 \pm 1.13
SNP6	TT (71)	55.82 \pm 0.61	57.27 \pm 0.75	68.80 \pm 0.91	64.13 \pm 0.54	67.22 \pm 0.57^{ab}	83.15 \pm 0.92
	TC (104)	55.61 \pm 0.53	56.52 \pm 0.72	67.74 \pm 0.72	63.59 \pm 0.41	65.89 \pm 0.47^b	82.54 \pm 0.75
	CC (54)	57.19 \pm 0.75	58.60 \pm 0.92	69.27 \pm 1.01	63.40 \pm 0.58	68.07 \pm 0.79^a	85.07 \pm 1.09
SNP7	CC (83)	55.75 \pm 0.56	57.11 \pm 0.67	68.49 \pm 0.81	64.00 \pm 0.50	66.90 \pm 0.53	82.89 \pm 0.86
	CT (114)	56.06 \pm 0.50	57.04 \pm 0.69	68.06 \pm 0.70	63.52 \pm 0.37	66.56 \pm 0.49	82.95 \pm 0.70
	TT (32)	56.77 \pm 1.07	58.36 \pm 1.30	69.61 \pm 1.36	63.63 \pm 0.85	67.50 \pm 0.99	85.83 \pm 1.53
SNP8	TT (74)	57.24 \pm 0.56^A	58.82 \pm 0.71^A	69.93 \pm 0.84^A	64.49 \pm 0.51^A	67.96 \pm 0.56^A	85.86 \pm 0.9^A
	TC (118)	55.91 \pm 0.51^{AB}	57.33 \pm 0.56^A	68.33 \pm 0.7^{AB}	63.89 \pm 0.40^A	66.83 \pm 0.49^A	82.97 \pm 0.69^B
	CC (37)	54.09 \pm 0.88^B	53.84 \pm 1.55^B	65.76 \pm 1.14^B	61.59 \pm 0.59^B	64.47 \pm 0.70^B	79.39 \pm 1.17^C
SNP9	GG (184)	55.85 \pm 0.41	57.15 \pm 0.54	68.44 \pm 0.57	63.79 \pm 0.33	66.60 \pm 0.37	83.28 \pm 0.58
	GA (45)	56.83 \pm 0.69	57.63 \pm 0.80	68.39 \pm 0.95	63.39 \pm 0.58	67.70 \pm 0.81	83.53 \pm 1.09
SNP10	AA (158)	56.59 \pm 0.42	57.99 \pm 0.47	69.09 \pm 0.57	64.20 \pm 0.35	67.55 \pm 0.41	84.32 \pm 0.62
	AG (65)	54.68 \pm 0.67	55.39 \pm 1.08	66.72 \pm 0.98	62.63 \pm 0.49	64.99 \pm 0.59	80.96 \pm 0.91
	GG (6)	56.58 \pm 2.33	57.67 \pm 3.38	69.50 \pm 2.93	62.50 \pm 1.94	67.33 \pm 2.01	83.00 \pm 3.74
SNP11	TT (167)	55.70 \pm 0.42	56.94 \pm 0.58	68.26 \pm 0.60	63.62 \pm 0.34	66.50 \pm 0.39	83.11 \pm 0.61
	TC (57)	57.04 \pm 0.70	57.97 \pm 0.72	69.01 \pm 0.89	63.87 \pm 0.51	67.77 \pm 0.70	84.07 \pm 1.06
	CC (5)	56.20 \pm 2.18	59.20 \pm 1.24	67.60 \pm 2.29	64.80 \pm 2.94	66.40 \pm 2.98	82.20 \pm 1.62
SNP12	CC (213)	56.12 \pm 0.36	57.35 \pm 0.48	68.52 \pm 0.51	63.72 \pm 0.30	66.88 \pm 0.35	83.42 \pm 0.53
	CT (16)	55.00 \pm 1.52	55.84 \pm 1.27	67.28 \pm 1.68	63.63 \pm 1.11	65.97 \pm 1.30	82.13 \pm 2.08
SNP13	CC (113)	56.41 \pm 0.49	57.67 \pm 0.71	69.37 \pm 0.69^a	64.36 \pm 0.42^a	67.22 \pm 0.49^a	84.28 \pm 0.75^a
	CG (95)	55.89 \pm 0.56	57.28 \pm 0.62	67.93 \pm 0.75^{ab}	63.35 \pm 0.4^{ab}	66.82 \pm 0.5^a	82.87 \pm 0.77^{ab}
	GG (21)	54.79 \pm 1.32	54.79 \pm 1.58	65.64 \pm 1.76^b	61.83 \pm 1.09^b	64.64 \pm 1.21^b	80.29 \pm 1.67^b

WBH, WBL and WCG represent the body height, body length and chest girth measured at weaning respectively; NBH, NBL and NCG represent the body height, body length and chest girth measured at 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.