

**Table S8.** Associations for the haplotype combinations (block 2) of *IGF1R* gene with body weight traits and ADG traits in Hulun Buir sheep (mean  $\pm$  SE, n = 229)

Haplotype combination	Body weight (kg)			Average daily gain (ADG) (g)		
	BW	WW	NBW	0-4 ADG	4-9 ADG	0-9 ADG
H4H4 (26) CGCG	3.90 $\pm$ 0.14 <sup>b</sup>	20.98 $\pm$ 1.43 <sup>BC</sup>	30.02 $\pm$ 1.45 <sup>bc</sup>	137.77 $\pm$ 10.62 <sup>ab</sup>	62.36 $\pm$ 2.44 <sup>A</sup>	97.29 $\pm$ 5.10 <sup>B</sup>
H4H5 (84) CGTG	4.21 $\pm$ 0.07 <sup>ab</sup>	22.51 $\pm$ 0.80 <sup>ABC</sup>	31.61 $\pm$ 0.85 <sup>ab</sup>	146.56 $\pm$ 5.95 <sup>ab</sup>	62.65 $\pm$ 2.09 <sup>A</sup>	101.56 $\pm$ 3.00 <sup>AB</sup>
H4H6 (11) CGCA	4.07 $\pm$ 0.23 <sup>ab</sup>	19.16 $\pm$ 1.29 <sup>C</sup>	26.15 $\pm$ 1.39 <sup>c</sup>	123.39 $\pm$ 9.64 <sup>b</sup>	48.11 $\pm$ 5.35 <sup>B</sup>	82.44 $\pm$ 4.92 <sup>C</sup>
H5H5 (74) TG TG	4.24 $\pm$ 0.08 <sup>ab</sup>	25.14 $\pm$ 0.81 <sup>A</sup>	33.92 $\pm$ 0.84 <sup>ab</sup>	165.56 $\pm$ 5.81 <sup>a</sup>	60.72 $\pm$ 2.00 <sup>A</sup>	109.61 $\pm$ 2.86 <sup>AB</sup>
H5H6 (34) TGCA	4.33 $\pm$ 0.10 <sup>a</sup>	24.70 $\pm$ 1.02 <sup>AB</sup>	34.39 $\pm$ 1.18 <sup>a</sup>	165.80 $\pm$ 7.83 <sup>a</sup>	67.13 $\pm$ 3.85 <sup>A</sup>	112.58 $\pm$ 4.29 <sup>A</sup>

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.