

Expression of DAZL gene in selected tissues and association of its polymorphisms with testicular size in Hu sheep

Zehu Yuan, Jing Luo · Li Wang, Fadi Li · Wanhong Li, Xiangpeng Yue

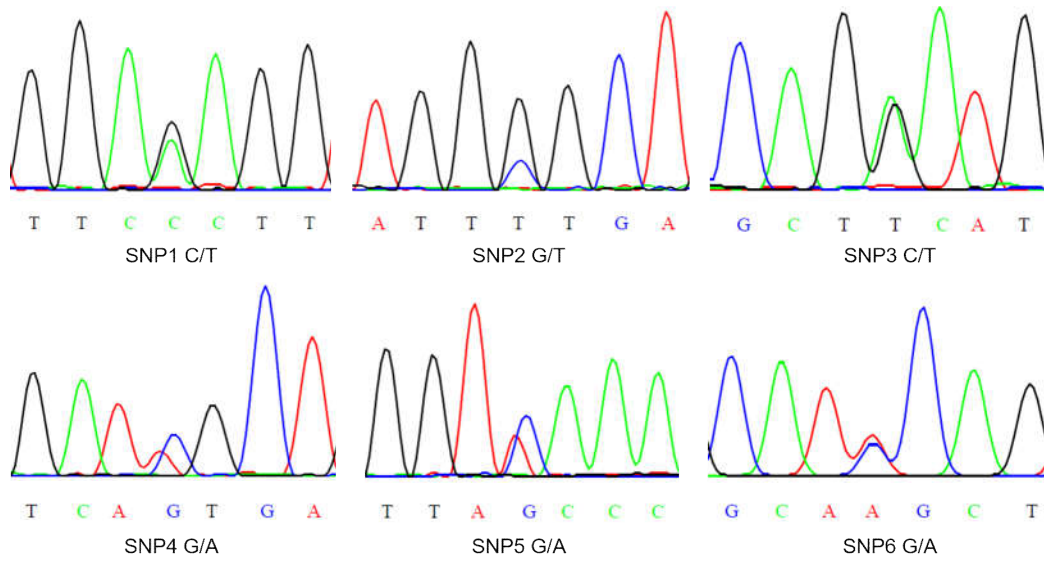


Figure S1 the sequencing results of six single nucleotide polymorphisms (SNPs)

Table S1 Normality test for 13 phenotypes

Phenotype	W before transformed	P before transformed	W after transformed	P after transformed
LTV ¹	0.974	1.376E-05	0.991	5.855E-02
LTW ²	0.982	4.593E-04	0.995	4.674E-01
RTV ³	0.978	7.903E-05	0.990	3.229E-02
RTW ⁴	0.985	2.620E-03	0.994	2.988E-01
LEW ⁵	0.938	3.227E-10	0.960	1.315E-07
REW ⁶	0.971	5.428E-06	0.991	5.194E-02
VCTW ⁷	0.802	2.176E-19	0.952	1.249E-08
VCEW ⁸	0.838	1.768E-17	0.979	1.224E-04
TI ⁹	0.980	6.000E-04	0.985	4.767E-03
REW/RTW ¹⁰	0.863	4.318E-16	0.916	2.576E-12
LEW/LTW ¹¹	0.890	2.329E-14	0.939	3.986E-10
TEW/TTW ¹²	0.898	1.064E-13	0.944	1.430E-09
TTW ¹³	0.982	5.251E-04	0.996	4.967E-01

¹ left testicular volume; ² left testicular weight; ³ right testicular volume; ⁴ right testicular weight; ⁵ left epididymis weight; ⁶ right epididymis weight; ⁷ variation coefficient between left and right testis weight; ⁸ variation coefficient between left and right epididymis weight; ⁹ testicular index; ¹⁰ right epididymis weight/ right testis weight; ¹¹ left epididymis weight/ left testis weight; ¹² total epididymis weight/ total testis weight; ¹³ total testicular weight.

Table 2. P values of Least Absolute Shrinkage and Selection Operator (LASSO) regression for 13 phenotypes.

SNP						Phenotype
SNP1	SNP2	SNP3	SNP4	SNP5	SNP6	
0.693	0.784	0.860	0.946	0.550	0.872	LTV1
0.548	0.796	0.838	0.974	0.568	0.962	LTW2
0.588	0.632	0.672	1.000	0.412	1.000	RTV3
0.710	0.694	0.716	1.000	0.439	0.990	RTW4
0.877	0.879	0.367	0.390	0.917	0.345	LEW5
1.000	0.473	0.036	0.392	1.000	0.417	REW6
0.265	0.162	0.106	0.685	0.562	0.592	VCTW7
0.288	1.000	0.761	0.538	0.585	0.661	VCEW8
0.409	0.743	1.000	0.633	0.423	0.634	TI9
0.651	0.659	0.826	0.487	0.573	0.847	REW/RTW10
0.786	0.601	0.979	0.560	0.498	0.960	LEW/LTW11
0.674	0.570	0.906	0.464	0.471	1.000	TEW/TTW12
0.593	0.713	0.769	0.973	0.485	0.826	TTW13

¹ left testicular volume; ² left testicular weight; ³ right testicular volume; ⁴ right testicular weight; ⁵ left epididymis weight; ⁶ right epididymis weight; ⁷ variation coefficient between left and right testis weight; ⁸ variation coefficient between left and right epididymis weight; ⁹ testicular index; ¹⁰ right epididymis weight/ right testis weight; ¹¹ left epididymis weight/ left testis weight; ¹² total epididymis weight/ total testis weight; ¹³ total testicular weight.