

**Table S1.** GATA6-Exon 6, detected mutation (rs405842265), genotype frequency, allele frequency and Chi-square value for CC, AC and AA genotypes detected in each ear phenotype in Awassi sheep.

Phenotype	Allele Frequency		Genotype Frequency			Chi Square <i>p</i> -value
	C	A	CC	AC	AA	
Earless	87.5%	12.5%	75%	25%	0%	0.3074 <sup>n.s</sup>
Short Ear	80%	20%	70%	20%	10%	
Normal Ear	90%	10%	80%	20%	0%	

n.s: non-significant.

**Table 2.** Gene and genotype frequencies and the relationship between ear phenotypes and deletion nucleotides detected in the inter genic region between GATA6 and MIB1 genes in Awassi sheep.

Phenotype	SS	RR	SR	Chi Square <i>p</i> -value
Earless	25%	56.25%	18.75%	0.0880 <sup>n.s</sup>
Short ear	5%	70%	25%	
Normal ear	0%	80%	20%	

n.s: non-significant.