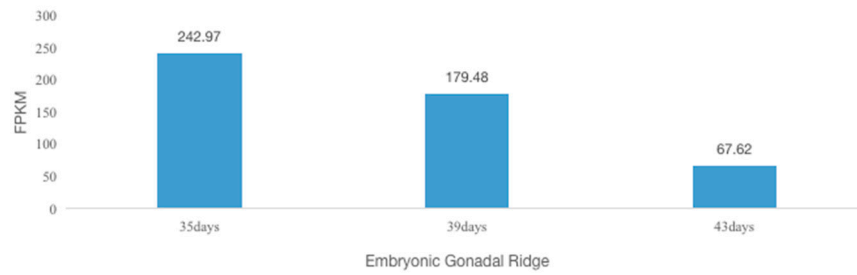


**Figure S1.** Electrophoresis pattern of bovine *HMGA2* gene of P1-I<sub>8</sub>-bp

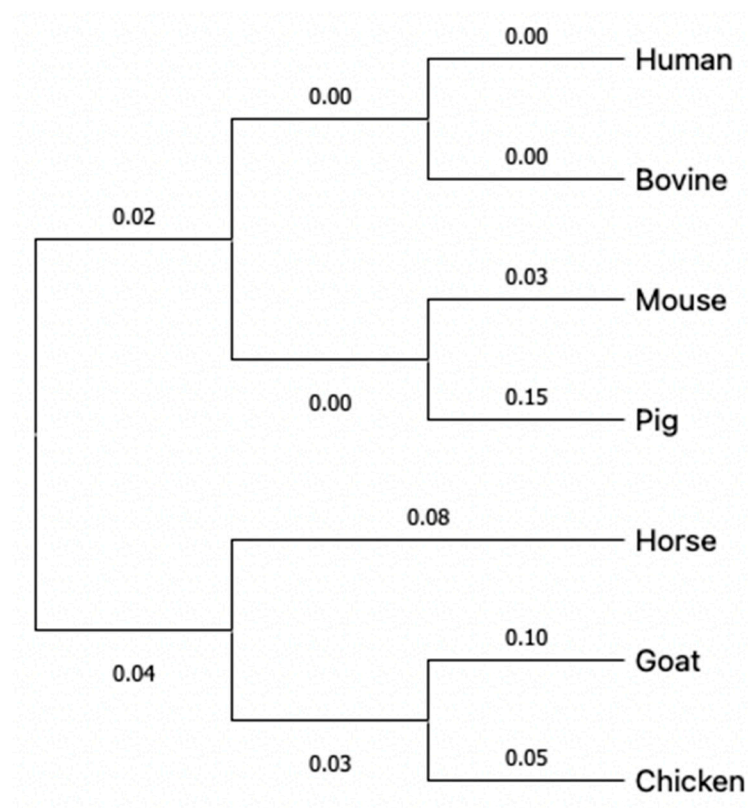
**Table S1.** Polymorphism parameters of P1-I<sub>8</sub>-bp of bovine *HMGA2* gene.

Size *	Genotypic frequencies			Allelic frequencies		HWE	Population parameters			
	II	ID	DD	I	D	<i>P</i> value	Ho	He	Ne	PIC
130	0.22	0.26	0.52	0.35	0.65	<i>P</i> <0.05	0.52	0.48	1.840	0.35

**Note:** \* refers to the number of individual bovine analyzed. *HWE*, Hardy-Weinberg equilibrium; *Ho*, homozygosity; *He*, heterozygosity; *Ne*, effective number of alleles; *PIC*, Polymorphism information content. **Sizes:** the number of individual cattle analyzed.



**Figure S2. Expression of *HMGA2* gene in bovine.** Note: FPKM: Fragment Per Kilobase of transcript, per Million mapped reads



**Figure S3. Phylogenetic tree based on the amino acid sequences of *HMGA2* among different species.** Note: Bootstrap method: 1000