



Short Communication

Diversity of *TNF- α* region in Chinese domestic goats

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ABSTRACT. Tumor necrosis factor- α is a cytokine with a wide range of effects on both lymphoid and non-lymphoid cells. In this study, we identified polymorphisms in major histocompatibility complex class III gene in the 4th exon and the 3' untranslated region of tumor necrosis factor- α to evaluate the immunogenetic diversity of Chinese south indigenous goat. Three single-nucleotide polymorphisms were identified and showed similar frequencies in different except MI loci. These data suggest that the high immunodiversity of the tumor necrosis factor- α region within these breeds can be used for strengthening variety improvement and promoting animal husbandry development in Chinese indigenous goats.

Key words: Chinese indigenous goat; Immunological diversity; Major histocompatibility complex class III; Tumor necrosis factor-alpha