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### Polymorphism Analysis of Exon 2, 5 and 10 of Bovine Lactoferrin Gene and its Association with Mastitis in Sahiwal Cows

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#### Abstract

The present study aimed at identifying single-nucleotide polymorphism (SNP) in coding region of bovine lactoferrin gene in Sahiwal cows to establish the baseline of polymorphism. A total of 30 animals from Sahiwal breed were screened for three loci of lactoferrin gene; Ltfe2, Ltfe5 and Ltfe10. Total of 6 SNPs with monomorphic pattern of distribution were identified in three studied loci. These polymorphisms indicated the existence of amino acids variants in the Sahiwal cows affected with mastitis. These SNPs could serve as potential markers for association with susceptibility or resistance to mastitis in Sahiwal cows. This lactoferrin has the potential to serve as candidate gene for the selection of mastitis resistance. Sahiwal cows in the animal breeding program to improve the animal health.

**Key words:** Exon, Lactoferrin, Mastitis, Sahiwal cows, SNPs



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