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Genetic Variations of the Bovine *MX1* and Their Association with Mastitis

NINGBO CHEN, FENGQIAO WANG, NONGQI YU, YUAN GAO, JIEPING HUANG,
YONGZHEN HUANG, XIANYONG LAN, CHUZHAO LEI, HONG CHEN, RUIHUA DANG*

College of Animal Science and Technology, Northwest A&F University, Yangling, P.R. China

Supplementary Online Material (SOM)

Table S1. Statistical information of the test-day traits of Holstein cows

Traits	Mean	SD	Maximum	Minimum
Milk yield (kg)	20.779 ± 0.208	10.048	67.88	5.80
Fat percentage (%)	4.309 ± 0.019	0.913	9.23	1.33
Protein percentage (%)	3.161 ± 0.009	0.409	7.07	2.26
Somatic cells score	4.962 ± 0.075	1.285	9.00	1.50

Table S2. Details of primers used to amplify bovine *MX1* gene

Primer	Primer sequence (5'-3')	Size (bp)	T _m (°C)	Amplification region
MX1-P1	1F: TGTCTTATGGTGGGTTTG 1R: AATGGCATCGCAGTTA	275	53.1	exon1
MX1-P2	2F: TTTTCTCCCAGGAATGA 2R: CTAAGTGCCCAAACCTCTAC	510	49.0	exon2
MX1-P3	3F: TCTGGCTGGCATTCTGTC 3R: TCTGAGGTCCTCTGTTTCTG	550	55.2	exon3
MX1-P4	4F: AAGGGTGAGAACAGGGAG 4R: AGTGGGAACAGTGACAGG	349	59.0	exon4
MX1-P5	5F: CCACCCATAACTTTCCAG 5R: CCCATACCCACTCCTCAA	646	59.0	exon5
MX1-P6	6F: AACCTCATAGTGTTCCTC 6R: TCCAGTATTCTTGCCCTCA	416	55.2	exon6
MX1-P7	7F: CACAGGGAAGTTTGAGACC 7R: CAGCCAACCTTGGACAG	585	59.9	exon7
MX1-P8	8F: CCATCCAGTGGGAAGTA 8R: GATCCTCTGACAGGCAAT	354	53.0	exon8
MX1-P9	9F: ATGTGGGCTCAGATTCAGG 9R: TTTGGATCAGCTTTAGGGA	453	54.4	exon9
MX1-P10	10F: GCGTGCTATTGGCTCTTC 10R: CCTTACTCTGACCGTCCTTG	455	55.0	exon10
MX1-P11	11F: AGTGTCTTCCCTGGCTTTA 11R: ACTGGTTGGGTTGCTTGT	491	55.0	exon11
MX1-P12	12F: GAGGGAGGCAGGGAACCTGT 12R: AGCCCAAGCCAGGACAAG	543	59.9	exon12
MX1-P13	13F: AAGTCCCACTCCCTACCCA 13R: CTCCTACAGAGGCTTACCAA	550	59.2	exon13
MX1-P14	14F: TTGGTCCCTAGCCTGGTGC 14R: CTGTGAAACGGGCAGTTGAG	497	59.9	3' UTR
MX1-P15	15F: CCAGGACAAGGACCAGTA 15R: CCACAAGACAAGCCACC	688	61.0	3' UTR