

Association of the CACNA2D1 gene with milk yield and milk quality traits in Holstein cattle

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SUPPLEMENTARY FILE

Table S1: PCR-RFLP conditions of the SNPs

SNP	AT	RE	Genotype	Reference
<i>rs43389227</i>	61	<i>RsaI</i>	CC: 236 bp, and 86 bp CT: 322 bp, 236 bp, and 86 bp TT: 322 bp	Yuan et al., 2011b
<i>rs43390124</i>	59	<i>TaqI</i>	AA: 386 bp AG: 386 bp, 229 bp, and 157 bp GG: 229 bp, and 157 bp	Yuan et al., 2011b
<i>rs482883241</i>	54.6	<i>HpaII</i>	AA: 386 bp AG: 269 bp, 175 bp, and 94 bp GG: 175 bp, and 94 bp	Yuan et al., 2011b

AT: PCR Annealing temperature, RE: Restriction endonuclease enzyme; bp: Base pair

Table S2: Descriptive statistics of the investigated milk yield and milk composition

Traits	N	Minimum	Maximum	Mean	Std. Error
Fat %	166	2.00	4.93	3.20	0.04
Dry matter	166	7.64	9.62	9.07	0.02
Density	166	26.10	37.60	30.94	0.10
Protein %	166	3.16	6.43	3.44	0.02
Freezing	166	55.20	63.10	59.67	0.12
Latose %	166	4.59	5.27	4.98	0.01
Milk yield (305 days)	166	2232	13410.00	7996.430	177.23
SCS	166	21	2823	378.35	29.47
EC	166	4.40	76.14	5.4695	0.43
pH	166	6.51	7.24	6.8909	0.01