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Supplement of

Individual and combined effects of *CAPNI*, *CAST*, *LEP* and *GHR* gene polymorphisms on carcass characteristics and meat quality in Holstein bulls

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Table S1 Detailed information about the studied SNPs

	GENE				
	<i>CAPNI</i>	<i>CAPNI</i>	<i>CAST</i>	<i>LEP</i>	<i>GHR</i>
Chromosome	29	29	7	4	20
SNP localization	Exon 9	Exon 14	Exon 1C/1D	Exon 3	Exon 10
SNP name	G316A	V530I	S20T	A80V	S555G
SNP ID	rs17872000	rs17871051	rs459238462	rs29004508	rs109300983
Allele	C/G	A/G	G/C	C/T	G/A
Codon	GGC/GCC	GTC/ATC	AGC/ACC	GCG/GTG	AGC/GGC
Forward primer	GACTGGGGTCTCTG GACTT	AGCGCAGGGACCCA GTGA	TGGGGCCCAATGAC GCCATCGATG	GGGAAGGGCAGAAA GATAG	GCTAACTTCATCGTG GACAAC
Reverse primer	GGAACCTCTGGCTCT TGA	TCCCCTGCCAGTTGT CTGAAG	GGTGGAGCAGCACT TCTGATCACC	CCAAGCTCTCCAAG CTCTC	CTATGGCATGATTTT GTTCAG
Transcript position	947	1588	189	286	1700
Amino acid	G/A	V/I	S/T	A/V	S/G
Protein position	316	530	20	80	555
Coding sequence	947	1588	61	239	1663
GenBank Acc. No	AF252504	AF248054	AF117813	AF536174.1	AF140284
Amplicon size (bp)	415	787	624	458	342
PCR conditions	95°C for 5 min, followed by 35 cycles of 95°C for 45 sec, 63°C for 45 sec, and 72°C for 45 sec, followed by a final extension step at 72°C for 5 min	95°C for 5 min, followed by 35 cycles of 95°C for 1 min, 63°C for 1 min, and 72°C for 1 min, followed by a final extension step at 72°C for 5 min	94°C for 5 min, followed by 32 cycles of 94°C for 30 sec, 62°C for 45 sec, and 72°C for 45 sec, followed by a final extension step at 72°C for 5 min	94°C for 2 min, followed by 35 cycles of 94°C for 30 sec, 57°C for 1 min, and 72°C for 30 sec, followed by a final extension step at 72°C for 15 min	95°C for 5 min, followed by 35 cycles of 94°C for 45 sec, 53°C for 30 sec, and 72°C for 50 sec, followed by a final extension step at 72°C for 5 min
Restriction enzyme	<i>BtgI</i>	<i>AvaII</i>	<i>AluI</i>	<i>HphI</i>	<i>AluI</i>

CAPNI: micro molar calcium-activated neutral protease 1; *CAST*: calpastatin; *LEP*: leptin; *GHR*: growth hormone receptor