

Supplement of Arch. Anim. Breed., 60, 61–70, 2017  
<http://www.arch-anim-breed.net/60/61/2017/>  
doi:10.5194/aab-60-61-2017-supplement  
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*Supplement of*

## **Effects of polymorphisms at *LEP*, *CAST*, *CAPN1*, *GHR*, *FABP4* and *DGAT1* genes on fattening performance and carcass traits in Simmental bulls**

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**Table S1** Summary information about the studied SNPs

	Gene					
	<i>LEP</i>	<i>CAST</i>	<i>CAPNI</i>	<i>GHR</i>	<i>FABP4</i>	<i>DGATI</i>
Chromosome	4	7	29	20	14	14
SNP name	A80V	S20T	G316A	S555G	V110M	K232A
Localisation	Exon 3	Exon 1C/1D	Exon 9	Exon 10	Exon 3	Exon 8
Allele	C/T	G/C	C/G	G/A	A/G	A/K
Protein Position	80	20	316	555	110	232
Amino acid substitution	A/V	S/T	G/A	S/G	V/M	K/A
Gen Bank Accession Numbers	AF536174.1	AF117813	AF252504	AF140284	NC_007312	AY065621

**Table S2** Summary of associations observed

Trait	Gene					
	<i>LEP</i>	<i>CAST</i>	<i>CAPNI</i>	<i>GHR</i>	<i>FABP4</i>	<i>DGATI</i>
IW (kg)	0.150	0.153	0.613	0.650	0.192	0.255
FW (kg)	0.820	0.032	0.022	0.212	0.438	0.530
FP (days)	0.442	0.028	0.002	0.566	0.459	0.914
TWG (kg)	0.820	0.032	0.022	0.212	0.438	0.530
ADG (kg)	0.960	0.036	0.056	0.167	0.388	0.498
HCW (kg)	0.006	0.176	0.189	0.404	0.578	0.126
CCW (kg)	0.006	0.187	0.193	0.405	0.584	0.127
DP (%) <sup>1</sup>	0.018	0.223	0.556	0.333	0.449	0.226
DP (%) <sup>2</sup>	0.019	0.233	0.561	0.332	0.458	0.226
CL (%)	0.986	0.169	0.626	0.151	0.593	0.836

IW – initial weight. FW – final weight. FP – fattening period. TWG – total weight gain. ADG – average daily gain. HCW – hot carcass weight. CCW – chilled carcass. DP – dressing percentage. CL – chilling loss.

<sup>1</sup> represents dressing percentage based on hot carcass weight. <sup>2</sup> represents dressing percentage based on chilled carcass weight.