

Supplementary Material to “A comprehensive transcriptome analysis of skeletal muscles in two Polish pig breeds differing in fat and meat quality traits”

Table S4 - Pearson correlation coefficient r between FPKMs of DEGs in *longissimus dorsi* and pig production traits.

Trait	Differentially expressed genes																
	<i>ASS1</i>	<i>UCLH1</i>	<i>LIPE</i>	<i>HES1</i>	<i>LXRA</i>	<i>MAOB</i>	<i>SCRF2</i>	<i>VCAN</i>	<i>APOD</i>	<i>LIMK1</i>	<i>PEX11G</i>	<i>PPP11R1</i>	<i>HP</i>	<i>OAS2</i>	<i>PVALB</i>	<i>CNN1</i>	<i>GPX3</i>
Fattening traits																	
age at slaughter (day)	0.49	<u>0.70**</u>	0.05	-0.19	0.51*	0.57*	0.01	-0.16	0.19	0.53*	0.49*	-0.32	0.43	<u>-0.67**</u>	-0.34	-0.45	0.28
daily gain (g/kg)	-0.41	-0.58*	-0.39	0.01	-0.41	-0.61*	0.26	0.49	-0.18	-0.40	-0.56*	<u>0.80***</u>	-0.35	-0.54*	0.54*	<u>0.68**</u>	-0.24
feed gain ration (g/day)	0.40	0.47	0.29	-0.12	0.41	<u>0.69**</u>	-0.31	-0.57*	0.02	0.32	0.45	-0.63**	0.18	0.44	-0.46	-0.47	0.05
feed intake (kg)	0.62*	0.54*	0.34	-0.07	0.32	<u>0.66**</u>	-0.30	-0.49	-0.01	0.57*	0.43	-0.59*	0.23	0.48	-0.56*	-0.48	0.02
Slaughter traits																	
weight of loin (kg)	0.05	-0.03	-0.41	0.03	-0.23	-0.26	0.21	0.51	-0.14	0.16	-0.19	0.57*	-0.15	-0.01	0.08	0.29	-0.17
backfat thickness (cm)	0.57*	0.31	0.55*	0.30	0.18	0.28	-0.09	-0.21	0.27	0.35	0.37	-0.44	0.44	0.40	-0.53*	-0.43	0.29
loin eye area (cm ²)	-0.41	-0.2	-0.49	-0.24	-0.25	-0.27	0.22	0.57*	-0.19	-0.27	-0.27	0.28	-0.38	-0.19	0.06	0.27	-0.26
meat percentage (%)	-0.63*	-0.39	-0.55*	-0.24	-0.45	-0.51*	0.05	0.07	-0.41	-0.33	-0.53*	0.35	-0.51*	-0.31	0.58*	0.39	-0.39
Longissimus dorsi																	
meat exudation	-0.21	<u>-0.66**</u>	-0.30	0.49	-0.42	-0.61*	0.18	0.46	-0.28	-0.37	-0.57*	<u>0.82***</u>	-0.41	-0.55*	0.45	<u>0.82***</u>	-0.26
meat redness (MA)	-0.28	-0.30	-0.13	0.31	-0.23	-0.23	0.25	0.40	0.11	-0.50*	-0.09	0.42	-0.19	-0.21	0.38	0.50*	-0.02
Intramuscular fat (%)	0.48	0.07	0.61**	0.35	0.21	0.21	-0.01	-0.07	0.23	0.13	0.20	-0.27	0.28	0.01	-0.37	-0.18	0.22
firmness by Warner-Bratzler (N)	-0.36	-0.64**	-0.41	0.37	-0.38	-0.61*	0.24	0.46	-0.32	-0.41	-0.59*	<u>0.76***</u>	-0.47	-0.63**	<u>0.71**</u>	<u>0.88***</u>	-0.32
toughness by Warner-Bratzler (N)	-0.29	-0.61*	-0.31	0.41	-0.41	-0.60*	0.21	0.41	-0.30	-0.38	-0.61*	<u>0.77***</u>	-0.45	-0.60*	<u>0.68**</u>	<u>0.83***</u>	-0.30
harness by TPA (N)	-0.49	-0.53*	-0.17	0.06	-0.25	-0.39	-0.21	-0.11	-0.34	-0.10	-0.52*	-0.10	-0.28	<u>-0.66**</u>	0.28	0.16	-0.29

* - $P \leq 0.05$; ** - $P \leq 0.01$, *** - $P \leq 0.001$, underlined values were significant after Bonferroni correction. The transcript levels of DEGs were showed as normalized FPKM values.