

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

Table S3. – Genes $\geq \pm 1.5$ - fold (up-regulated and down-regulated) differentially expressed in *semimembranosus* muscle of Polish Landrace pigs.

Gene		Ensemble ID	DESeq		edgeR		baySeq FDR	Validation qPCR PC ¹	
symbol	name		FC	Ad p-value	FC	FDR		r	P
<i>PPP1R11</i>	Protein phosphatase 1, regulatory (inhibitor) subunit 11	ENSSSCG00000028347	2.75	***	6.16	***	***	0.63	≤ 0.05
<i>NG</i>	Similar to E3 ubiquitin-protein ligase (HECTD2)	ENSSSCG00000020912	2.01	**	2.49	*	**		
<i>PCDH17</i>	Protocadherin 17	ENSSSCG00000009446	2.00	**	2.45	**	***		
<i>NG</i>	Similar to Nik related kinase (NRK)	ENSSSCG00000030276	1.98	*	2.83	*	**		
<i>HES1</i>	Hairy and enhancer of split 1	ENSSSCG00000026362	1.95	**	2.47	*	**	0.91	≤ 0.001
<i>SFRP2</i>	Secreted frizzled-related protein 2	ENSSSCG00000009004	1.94	*	2.73	*	***	0.87	≤ 0.001
<i>VCAN</i>	Versican	ENSSSCG00000014136	1.93	*	3.11	*	*	0.82	≤ 0.001
<i>NR4A2</i>	Nuclear receptor subfamily 4, group A, member 2	ENSSSCG00000015871	1.88	*	3.22	*	*		
<i>CHEK1</i>	Checkpoint kinase 1	ENSSSCG00000015215	1.82	*	2.21	0.057	**		
<i>MYZAP</i>	Myocardial zonula adherens protein	ENSSSCG00000004598	1.81	*	2.19	0.052	*		
<i>LXN</i>	Latexin	ENSSSCG00000020984	1.80	*	2.19	*	***		
<i>COL11A1</i>	Collagen, type XI, alpha 1	ENSSSCG00000006857	1.78	0.051	3.43	*	*		
<i>SSX2IP</i>	Synovial sarcoma, X breakpoint 2 interacting protein	ENSSSCG00000003757	1.78	*	2.20	0.063	*		
<i>FRMD6</i>	FERM domain containing 6	ENSSSCG00000005027	1.74	*	2.09	0.064	**		
<i>NUF2</i>	NDC80 kinetochore complex component	ENSSSCG00000006333	1.72	*	2.03	0.076	*		
<i>KIF23</i>	Kinesin family member 23	ENSSSCG00000004969	1.72	*	1.97	0.078	**		
<i>NG</i>	Similar to transmembrane protein 106C (<i>TMEM106C</i>)	ENSSSCG00000028397	1.71	*	1.98	0.067	*		
<i>DNAH11</i>	Dynein, axonemal, heavy chain 11	ENSSSCG00000015379	1.71	*	1.96	0.082	*		

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symbol	name		FC	Ad p-value	FC	FDR		r	P
<i>KIT</i>	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene	ENSSSCG00000008842	1.69	*	1.94	0.1	*		
<i>ZNF300</i>	Zinc finger protein 300	ENSSSCG00000021371	1.64	*	1.85	0.013	**		
<i>NG</i>	Similar to trichoplein, keratin filament binding (<i>TCHP</i>)	ENSSSCG00000009926	1.64	*	1.85	0.086	*		
<i>CDH11</i>	Cadherin 11, type 2, OB-cadherin	ENSSSCG00000002795	1.56	0.076	2.93	*	**		
<i>NG</i>	Similar to tetratricopeptide repeat domain 21B (<i>TTC21B</i>)	ENSSSCG00000015909	1.57	*	1.67	0.01	**		
<i>ALDH1L2</i>	Aldehyde dehydrogenase 1 family, member L2	ENSSSCG00000000839	1.57	**	1.65	0.066	*		
<i>C5orf42</i>	Chromosome 5 open reading frame 42	ENSSSCG00000016843	1.55	*	1.67	0.17	*		
<i>CCDC25</i>	Coiled-coil domain containing 25	ENSSSCG00000024972	1.54	***	1.59	0.052	**		
<i>HELQ</i>	Helicase, POLQ-like	ENSSSCG00000009236	1.53	*	1.60	0.17	*		
<i>CXorf38</i>	Chromosome X open reading frame	ENSSSCG00000012249	1.46	**	1.51	0.19	*		
<i>ISG15</i>	ISG15 ubiquitin-like modifier	ENSSSCG00000027982	-1.13	0.073	-7.71	*	***		
<i>TRNAUIAP</i>	tRNA selenocysteine 1 associated protein 1	ENSSSCG00000030284	-1.37	**	-1.38	0.023	**		
<i>RGPI</i>	Retrograde golgi transport homolog	ENSSSCG00000005320	-1.38	*	-1.40	0.29	*		
<i>NG</i>	Similar to PPFIA binding protein 2 (PPFIBP2)	ENSSSCG00000014598	-1.41	*	-1.43	0.26	*		
<i>THTPA</i>	Thiamine triphosphatase	ENSSSCG00000002016	-1.45	*	-1.48	0.19	**		
<i>NR1H3</i>	Nuclear receptor subfamily 1, group H, member 3 (LXRA)	ENSSSCG00000013241	-1.48	*	-1.53	0.13	**	0.64	≤0.05
<i>MAGIX</i>	MAGI family member, X-linked	ENSSSCG00000012295	-1.52	*	-1.57	0.11	*		
<i>NG</i>	Similar to DnaJ homolog subfamily C member 8 (DNAJC8)	ENSSSCG00000028809	-1.54	**	-1.58	0.052	**		
<i>NG</i>	Similar to dual specificity phosphatase 13 (DUSP13)	ENSSSCG00000029128	-1.55	*	-1.65	0.17	*		
<i>GPX3</i>	Glutathione peroxidase 3	ENSSSCG00000017092	-1.57	0.022	-4.07	*	***	0.98	≤0.001
<i>AP2B1</i>	Adaptor-related protein complex 2, beta 1 subunit	ENSSSCG00000024434	-1.57	**	-1.61	0.052	**		
<i>RNPEPL1</i>	Arginyl aminopeptidase (aminopeptidase B)-like 1	ENSSSCG00000016367	-1.59	*	-1.70	0.064	*		
<i>KHK</i>	Ketohexokinase (fructokinase)	ENSSSCG00000008556	-1.59	*	-1.73	0.110	*		
<i>SLC38A3</i>	Solute carrier family 38, member 3	ENSSSCG00000011397	-1.60	*	-1.73	0.086	**		
<i>CST6</i>	Cystatin E/M	ENSSSCG00000012960	-1.60	*	-1.68	0.063	**		
<i>NG</i>	Cathepsin D (CTSD)	ENSSSCG00000026418	-1.60	*	-1.69	0.076	*		

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symbol	name		FC	Ad p-value	FC	FDR	FDR	r	P
<i>EXOC7</i>	Exocyst complex component 7	ENSSSCG00000017190	-1.66	**	-1.77	*	**		
<i>ASS1</i>	Argininosuccinate synthase 1	ENSSSCG00000005701	-1.68	0.12	-6.07	*	***	0.98	≤0.001
<i>LRR30</i>	Leucine rich repeat containing 30	ENSSSCG00000023672	-1.75	*	-2.00	0.073	***		
<i>MAOB</i>	Monoamine oxidase B	ENSSSCG00000023215	-1.77	**	-1.96	*	*		
<i>UCHL1</i>	Ubiquitin carboxyl-terminal esterase L1	ENSSSCG00000022945	-1.84	*	-2.43	0.056	*	0.81	≤0.01
<i>PEX11G</i>	Peroxisomal biogenesis factor 11 gamma	ENSSSCG00000013569	-1.86	**	-2.07	*	***	0.70	≤0.01
<i>LIPE</i>	Lipase, hormone-sensitive (HSL)	ENSSSCG00000003018	-1.87	*	-2.51	*	**	0.57	≤0.05
<i>LIMK1</i>	LIM domain kinase 1	ENSSSCG00000030378	-1.89	*	-2.36	*	**	0.85	≤0.01
<i>OAS2</i>	Helicase, POLQ-like	ENSSSCG00000009881	-1.93	*	-3.36	*	***	0.90	≤0.001
<i>HP</i>	Haptoglobin	ENSSSCG00000002749	-2.10	**	-11.18	***	***	0.99	≤0.001
<i>NG</i>	Similar to SWI/SNF related, matrix associated, actin dependent	ENSSSCG00000022002	-2.14	**	-2.91	**	***		
<i>APOD</i>	Apolipoprotein D	ENSSSCG00000011831	-2.26	***	-2.67	***	***	0.89	≤0.001
<i>SEPT6-007</i>	6-isoform of septin 6	ENSSSCT00000013798	-1.95	**	-2.24	**	***		

Abbreviation: Ad *P*-value - adjusted *P*-value, FDR- false discovery rate; rate of type I errors, FC- fold change, PL –Polish Landrace pigs, NG – novel gene according to Ensembl browser

¹The Pearson Correlation Coefficients had *P*-value at least <0.05, *P*-values of DESeq, edgeR and baySeq methods****P*<0.001, ***P*<0.01, **P*<0.05.