

Transcriptome analysis of miRNA and mRNA in the livers of pigs with highly diverged backfat thickness

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Table S2. The genealogy information of selected animals.

Sample ID	Boar ID	Sow ID	Litter ID
14817	LLNHPF708007239	LLNHPF708006338	148
15805	LLNHPF708007239	LLNHPF710007876	158
22509	LLNHPF111011101	LLNHPF709002652	225
22511	LLNHPF111011101	LLNHPF709002652	225
23709	LLNHPF710006737	LLNHPF108001825	237
23712	LLNHPF710006737	LLNHPF108001825	237
31208	LLNHPF710001599	LLNHPF109005690	312
31210	LLNHPF710001599	LLNHPF109005690	312

14817 and 15805 are half-sib pair; 22509 and 22511 are full-sib pair; 23709 and 23712 are full-sib; 31208 and 31210 are full-sib.

Table S3. The mapping rate of each sample

Sample ID	14817	15805	23712	23709	31210	31208	22509	22511
Raw reads number	27734508	25868236	29167050	30577066	28546699	29654984	27614544	27895944
Clean reads number	24962054	23102658	26276375	27426569	25629568	26740904	24871531	25008304
Left reads mapped	20642000	19036539	22813393	23786251	21378352	23077371	20658022	20874850
Right reads mapped	20435152	18886352	22138138	23495630	22181574	22834309	20282848	20602969
Reads mapped rate	82.3%	82.1%	85.5%	86.2%	85.0%	85.8%	82.3%	82.9%

Table S5. DEGs through homology with human reference genome

Gene_ID	locus	Gene stable ID	Gene name	chromosome	Gene start (bp)	Gene end (bp)
XLOC_023053	4:118767853-118768431	ENSG00000171385	KCND3	1	111770662	111989155
XLOC_022825	4:96310880-96317115	ENSG00000198929	NOS1AP	1	162069774	162370475
XLOC_009845	14:60362808-60377442	ENSG00000238005	AL391832.2	1	234957342	234970062
XLOC_029886	7:96763348-96763667	ENSG00000171723	GPHN	14	66507407	67181803
XLOC_001134	1:310241039-310241573	ENSG00000122490	PQLC1	18	79902420	79951664
XLOC_021066	3:124268443-124292801	ENSG00000231200	LINC01830	2	21933336	22531105
XLOC_021066	3:124268443-124292801	ENSG00000228999	AC068490.1	2	21942178	21965680
XLOC_009025	13:108862113-108865348	ENSG00000163590	PPM1L	3	160755602	161078907
XLOC_033496	9:102509899-102510297	ENSG00000085563	ABCB1	7	87503633	87713323
XLOC_015726	18:34021752-34022173	ENSG00000128573	FOXP2	7	114086327	114693772
XLOC_015562	18:19001647-19008040	ENSG00000226380	AC016831.1	7	130876809	130913310

Table S7. The list of DEGs annotated in DAVID

Gene Symbol	Homolog - Human Ens Gene ID
ZCCHC8	ENSG00000033030
THBS1	ENSG00000137801
SPP1	ENSG00000118785
S1PR3	ENSG00000213694
PHGDH	ENSG00000092621
MYL9	ENSG00000101335
LIPG	ENSG00000101670
GRAMD3	ENSG00000155324
GCK	ENSG00000106633
FLNC	ENSG00000128591
FGG	ENSG00000171557
DES	ENSG00000175084
CYP2J34	ENSG00000134716
CNN1	ENSG00000130176
CKS2	ENSG00000123975
APOA4	ENSG00000110244
ANXA2	ENSG00000182718
ADAM8	ENSG00000151651
ACTG2	ENSG00000163017
ACTA1	ENSG00000143632
MYH11	ENSG00000133392
FASN	ENSG00000169710
SEC14L2	ENSG00000100003
CLEC18A	ENSG00000140839
ACTA2	ENSG00000107796

Table S9. Primers used in qPCR for eight genes

Gene name	forward primer (5'-3')	reverse primer (5'-3')
FASN	GGGCCCAGCATCACCATAGACA	GTTCGTGCCCCGCATTGAGGAT
THBS1	ACCACGACAAGGATGGCAAG	TCGGCGGAAATCAGTCTCAC
ACTA2	AGAACACGGCATCATCACCAACTG	CACCGCCTGAATAGCCACATACAT
LIPG	TGCAACAGCCAAAACCTTCT	TGTCCCACTTTCCTCGTGTT
GCK	AGCCCAGTGCTGACCCTCTA	GGATTTCTGTGCCTTCTTTA
CYP2J34	CCCTCANTTCAAGATCAACA	GCAGATGAGGTTTTCTTCAT
APOA4	GATGAAGAAGCAGGCAGAGG	TGTTGAAGGTCTCCCCGTAG
GAPDH	GGTCACCAGGGCTGCTTTTA	CCTTGACTGTGCCGTGGAAC

Figure S1. the VN of DEGs between pigs in pair

