**Additional file 7**: Primers for studying target genes by qPCR

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| Gene symbol | Gene name | Accession number1 | Primer and probe sequences |
| ACACB | Acetyl-CoA carboxylase beta | CV869475 | F2: CCATCCGAGAGAACATCAAATACTTR3: TGAACCAGGCCTCTGATGGT |
| AKAP12 | A-kinase anchoring protein 12 | XM\_001927265.7 | F: GAGCCCAAGCGCAAGGTTR: GATGACCCCACACAAATTAAAGC |
| ATP1B1 | ATPase, Na+/K+ transpor-ting, beta 1 polypeptide | NM\_001001542 | F: GGCCCCACCAGGATTAACACR: GCTTTGGGGATCATTAGGACGA |
| BLCAP | bladder cancer associated protein | XM\_001928462.4 | F: GGCGTTGTGGGCACCTAAR: CCGTCTTCTGCTTCCTTGGA |
| CD40 | TNF receptor superfamily member 5 | NM\_214194.1 | F: GCGCCTGTGAAAGTTGCAR: CTCTGTCGCCATCTGCTTGA |
| CSRNP3 | cysteine-serine-rich nuclear protein 3 | ENSSSCT00000017319 | F: TCAATCCATCCACTTCCAATCAR:GCCGCTTCTCCCTTTTGAG |
| EZR | Ezrin | XM\_013992459.2 | F: GCCGAAACCAATCAACGTCCR:TCCTGTTGTGTTTGGCTGGA |
| FKBP5 | FK506 Binding protein 5 | NM\_001315611.1 | F: GTCCACAGCAGCATCACTTGR:GTTCGGGAGGTGGCTAAGTC |
| FRAS1 | Fraser extracellular matrix complex subunit 1 | XM\_013978814.2 | F:AGCACAACCGTCTGGACAATC R: CCCTCGTCAACCGTGATGA |
| FYN | proto-oncogene, Src family tyrosine kinase | NM\_001080206.2 | F: GCCAAGGACTCACCGTCTTCR:TCACTCCTGTTCCTCCTCTCGTA  |
| HSD11B1 | hydroxysteroid 11-beta dehydrogenase 1 | NM\_214248.3 | F: CATAGACACAGACACGGCCAR: CAGGGCGCATTCTTCCTTTG |
| IGF2 | Insulin-like growth factor 2 | NM\_213883.2 | F: CGTGCTGCTATGCTGCTTAC R: CCGGCCTGCTGAAGTAGAAG |
| IL4R | interleukin 4 receptor | NM\_214340.1 | F:CCCCACGGATTTCAGAATCTATAR:ACGCGTGCGCTGTAAGC |
| MUM1 | melanoma associated antigen (mutated) 1 | XM\_021084240.1 | F: ACCACTTGCCACATGAGTCTR:CAGTTCCGGCCAAGACCTTT |
| PDZD2 | PDZ domain containing 2 | XM\_021077090.1 | F: CCTCCTGGCATCTACATTCACAR:GCGGACGTTGACAGAGTTCA |
| PHKB | phosphorylase kinase regulatory subunit beta | XM\_021094235.1 | F: TGGCAACCAGGGCTGTTCR: TCTGCCGGTTGCGATTGT |
| PSEN1 | presenilin 1 | XM\_005666340.1 | F:GTCACGATCTGCTGTACAGGATCTR: ATCCAAGTTTTACTCCCCTTTCTTC |
| RPL6 | ribosomal protein L6 | NM\_001044542.1 | F: ACAGAGGCAAGAGGGTCATTTTCR:CAGAGGTCCAGTCACAAGTAACAAG |
| SERINC3 | serine incorporator 3 | XM\_021077977.1 | F: TCCGGGAGATTCTCGGTAGTR: CACAAAGGCATGGAACCCAG |
| SERPINA1 | serpin family A member 1 | NM\_214395.2 | F: TGAGCTTGACAAAGACACCGTATTR: GCTTCTCCCATTTGCCTTTAAA |
| SOCS6 | suppressor of cytokine signaling 6 | HM135392.1 | F: CGCTGCCGGAAAATGGCR: CTCAGACATCTGGGGAGGCT |
| TFG | TRK-fused gene | XM\_021070561.1 | F: TTCTTCCTCCTCTGCAGCTCR:CATCTGACCTTCACTCTGACCT  |
| TMED3 | transmembrane p24 trafficking protein 3 | NM\_001204363.1 | F:ACGAGCCTCCTATTCTCCCAR:GACTCCATCTGGGTGAGAGC  |
| UGDH | UDP-glucose 6-dehydrogenase | XM\_003356899.5 | F: TGGTGCTTGGAAGTGGTACAR: GTGGGTCCTCCAACATAGCC |
| RPL44 | Ribosomal Protein L4 | ENSSSCG00000004945 | F:AGGAGGCTGTTCTGCTTCTGR: TCCAGGGATGTTTCTGAAGG |
| TBP14 | TATA box binding protein | DN110073 | F: AACAGTTCAGTAGTTATGAGCCAGAR: AGATGTTCTCAAACGCTTCG |

1Accession number in the National Center for Biotechnology Information database (<http://www.ncbi.nlm.nih.gov/gene>) or Ensembl project database (<http://www.ensembl.org/Sus_scrofa/Info/Index>) for pig sequences

2F = forward primer; 3R = reverse primer; 4Genes used as references for qPCR normalization.