Table 1. Overgo primers used to identify BAC clones containing equine orthologs of selected genes from HSA19 and HSA5. Gene name in parentheses is an alternate symbol used for the gene. Column labeled "Gene ID" lists the identification number of the sequence used for overgo design.

Gene symbol	Accession # (ENSEMBL or NCBI)	Forward overgo primer (5 –3)	Reverse overgo primer (5 –3)
ADAMTS6	ENSG00000049192	GTGTGTAGAGAGCTCTGGTGTCTC	AGCGGTTGCTTTTGCTGAGACACC
ADAMTS6	ENSG00000049192	GCATACTTCAGACAGATGTGTTGT	GTCCTTGGCAGGTCTTACAACACA
AKAP8	ENSG00000105127	TCTGACTCTCTCATTGCCAAGATC	TGTCCAAACGCTGGTTGATCTTGG
ASF1B	ENSG00000105011	CGAGCCCTTTCCACAGCCCCTTCC	AAGCTGATCTCGAACCGGAAGGGG
CCDC105	ENSG00000160994	CCCTGGCGCTTTCGTGTGGAGATG	TGCTGCCCCCTTTGAGCATCTCCA
CDK7	ENSG00000134058	AGTCTTGTGCTGACACCATCACAC	ACATGTAGGCTTTGATGTGTGATG
CHERP	ENSG00000085872	ATGACAGCAAGCCTCCCATCCAGA	TCTGAAGAGCCAGGCATCTGGATG
COMP	ENSG00000105664	TTCTCCCAGGAGAACATCATCTGG	GGTAACGCAGGTTGGCCCAGATGA
COPE	ENSG00000105669	TGAGAAGCTGCAGGATGCCTACTA	CATCTCCTGGAAGATGTAGTAGGC
CRLF1	ENSG00000006016	CTCTTTACGCCCTATGAGATCTGG	GGTTGGTGGCCTCCACCCAGATCT
CRTC1	ENSG00000105662	GAGCAGTTCAACATGATGGAGAAC	TGCTGGAGCTGATGGCGTTCTCCA
CYP4F11	ENSG00000171903	CACTGCCCATCCTTGCCCCTTTCC	AAGCTCCAAGGACAGTGGAAAGGG
CYP4F22	ENSG00000171954	CGTCCTGCCACTGTTGGTTCTGGT	GATATAGTCAGGGTGCACCAGAAC
DDX39	ENSG00000123136	CATGGAGGTGTTTGTAGACGACGA	CAGTGTGAGCTTGGTCTCGTCGTC
ELL	ENSG00000105656	GAAGGTTCAGTTTCGGAAACCAGC	GTCTGTTGCACCTGGGGCTGGTTT
EMR3	ENSG00000131355	GACAAGGGATTCATCTGGAGTTTC	CACAGACAGGGCCCAGGAAACTCC
ERBB2IP	ENSG00000112851	TGGCACAGTGATAGAGAATTGCTG	GCTCTACAACTCTCCACAGCAATT
F2RL3	ENSG00000127533	ACTCTATGGTCACATGTATGGCTC	GGCCAGCAGCAGCACTGAGCCATA
FKBP8	ENSG00000105701	GCCCTGTACCGGAAAATGCTGGGC	GCAGCCGGCTGGGGTTGCCCAGCA
GMIP	ENSG00000089639	TGAGGTTATCCGCTCGCTGAAGAC	CAGCTGTACCAAGAGGGTCTTCAG
GTPBP3	ENSG00000130299	TCTGACTTGGCCTCTCCGTACAGC	TGTCCAGGAAGTTGCAGCTGTACG
HAPLN4	ENSG00000187664	AACGCCGAGGAACGCTACGACGCC	TGGACGTGAAGCAGAAGGCGTCGT
INSL3	ENSG00000105639	ACAGCGGGCCAGACCAGCAGAGGG	ATCTCCCGCTGAAAGTCCCTCTGC
JUND	ENSG00000130522	AGAAAGTCCTCAGCCACGTCAACA	AGCAGCTGGCAGCCGCTGTTGACG
KCNN1	ENSG00000105642	GGGTTCGGAAACACCAGCGTAAGT	TGGATGGCTTGGAGGAACTTACGC
KIAA0892	ENSG00000129933	TCTTTCACTGGCTGCCCAAGGAAC	ACAAGCACACACATGTGTTCCTTG
KLF2	ENSG00000127528	ACGACCTCAACAGCGTGCTGGACT	CCCATGGACAGGATGAAGTCCAGC
LOC388524	ENSG00000205246	TCTCTTCTGTTCCGCGTCCTCCAC	ACCAGGGGCTACCGAGGTGGAGGA
LSM4	ENSG00000130520	AGTGCTACATCCGCGGCAGCACCA	ATGCGCAGGTACTTGATGGTGCTG
MAP1S	ENSG00000130479	GTCAATGGCTTCACTGTGCTGGTC	GGTTTGAGCCACCGTTGACCAGCA
MAST4	ENSG00000196567	TGGAACAGTTTGCTGAGACAGAAG	GGGGAATAAATTCTGCCTTCTGTC
MEF2B	ENSG00000064489	AAGTTCGGGCTGATGAAGAAAGCT	GCACGCTCAACTCGTAAGCTTTCT
MYO9B	ENSG00000099331	TTCCGGGAGAAGAACATGGACTAC	CGATGTCTGGCCGCATGTAGTCCA
NLN	ENSG00000123213	ATGGACATGCTCCACAATTTCTTG	GGTTTGGCTCACGTTTCAAGAAAT
NOTCH3	ENSG00000074181	CCCTTTGCAACGTGGAGATCAATG	GGGCTGGACGCACACTCATTGATC
OCLN	ENSG00000197822	TCCACCTATCACTTCAGATCAACA	CTTGTACAGTTGTCTTTGTTGATC
PGLS	ENSG00000130313	TGGTCCAGCCCCACACTGGGAAAC	TCCAGGAACCAGCAGAGTTTCCCA
PIK3R1	ENSG00000145675	GACTGTGAATAAAGGGTCCTTAGT	ACTGAATCCAAGAGCTACTAAGGA
PIK3R2	ENSG00000105647	GCAGTACCAGGACAAGAGCCGCGA	ATAAAGCTGGTCATACTCGCGGCT
PTGER1	ENSG00000160951	TGTACATCCTGCTGCGCCAGGCGG	AGCAGTTGGCGCAGCACCGCCTGG
SDCCAG10	ENSG00000153015	TTGCACTGCTGAACCAGTTTAAAT	GCTTGAGTGAGTTTAGATTTAAAC
SFRS12	ENSG00000153914	CTCAGGCTGCAGCTAAGGAGTTAG	CGCTTCATTACTTCTTCTAACTCC
SFRS14	ENSG00000064607	TCGGAAGAGGATCAGCAGCAAGTC	CATGCCAACCTTCAATGACTTGCT
SLC30A5	ENSG00000145740	GATTAATATCATACCGAGACCCTC	GAATGACGCCAAAAATGAGGGTCT
TAF9	ENSG00000185057	AACCACGCTAGGCAAAGAACTTGC	CAGTCCTGATCTTGATGCAAGTTC
TMEM38A	ENSG00000072954	ACATGTCTTTCCCCACCAAGGCCA	ATGGCTCCATACAGGCTGGCCTTG
TPM4	ENSG00000167460	GTGGGCTTACATCAGACACTGGAT	GTTCGTTTAGTGTCTGATCCAGTG
TRIM23	ENSG00000113595	TTGGGATGTAGGTGGAAAACACAA	CCACAATGGTCTTAATTTGTGTTT
TSSK6 (SSTK)	ENSG00000178093	CTCTACGTCATGGTCACCGGGTGC	AGTCATCGAAGGGCATGCACCCGG
UNC13A	ENSG00000130477	TACTACGCACACACCACCGCCTCC	AGGCAGACACGTTGGTGGAGGCGG
USE1	ENSG00000053501	AACCAGTTCCTGGCCCCTGGCCGT	TGGCTGTGGTTGGCACGCGGCCAG
ZNF14	ENSG00000105708	TTCCTGGCCCATGGGAAGATTGCG	TCAGGAGCAGGTGAAACGCAATCT
ZNF254	ENSG00000213096	CTGTCGCCGGAGTCCCAGGTCTGT	ACACAGAGCAGTGAAGACAGACCT
ZNF506	ENSG00000198584	ATGTACATGTTCGTGTTCATGGCC	TAAATTGCAATGGTCCGGCCATGA
ZNF682	ENSG00000197124	GCAATGTGGCAAAGTCTTTAAATC	AGAAAGGCCTGAGTGAGATTTAAA