

**Table S2. Primers and probes used for qPCR**

Gene	Foward	Reverse	UPL probe
ABCA12	cagaaagaaggcatgcatca	ggggatttccaaatcagaact	48
ABCA8	ttggtcattttgttctatgtgtc	ttcgaagatactgaacgcaaa	5
ABCB11	cagccctctcattgggatt	tccgtaaactggacacactca	83
ABCB4	tgcgcttcagagatgtattct	tgcagacagcttagctttagcat	50
ABCC1	actctctgggcatcaccac	gcatgatccctgaagactgaa	55
ABCC3	tgctctccttcatcaatcca	tggggttggagataaacctg	89
ABCG1	agagaaagcagttctcacagtttt	gaagctaaagctgccacctg	5
ABHD1	ctactgggcatgtgtgcttc	ctccaggaaggccagaaact	83
ABHD13	ctgtccgcgagctgagat	gctattagccatcttcaacaaagt	89
ADAM11	cacctctctcctcgcaata	tggtagtagcagtggtctccag	41
ADAM15	gctgaccctgtgtccaa	gctggcccctgagacttc	64
ADAM2	tgtggaatgcaaagctgga	ccaataagggcacaaatcctg	55
ADAM20	cctaaaggtcagccatgcac	caagggtgtagggcactgct	36
ADAM30	aacaaagcaattgtctgcctct	tgcggatgttcacatggat	13
ADCY1	atcaggctgaggctggacta	accttctccatgtcctctcg	13
ADCY6	tcttggcctggcaactaac	agaggaacagcagcacattg	9
ADCY7	ctgggcaacctcaccaag	tcctccaggaacagctagg	59
ADCYAP1R1	gagctgatgggcttcaatg	tccaacacgtgatgtgtcc	55
ADIPOR2	gggcattgcagccattat	aggcccaaaaactcctg	14
ADORA2B	tacctggccatctgtgtcc	gagtcaatccgatgccaaag	56
ADORA3	gggtcaagcttaccgtcaga	atgacaccagccagcaaag	81
AGPAT2	agggtactcgcaacgacaat	gtacaccacggggacgat	62
AGPAT4	gcacaagctctaccaggagaa	gaagggtcccgtcctgtag	63
AGTR1	acagtccaaaggctccacag	tcacctgggtcgaatttgtt	82
AGTRAP	atcgacgccataagcatgt	atgctgatgtgcacgatgtc	49
ALOX5AP	gtctcgggggctactttg	tgccctcacaacaagtacatca	18
AMIGO1	tgggctgagacacgtcct	ggaaggccacaaggaagat	52
AMIGO2	gtgacagacacggacagacg	tctttccaccggctcag	75
ANKH	catcgctgcgtgtatgt	cggtggccgactcattctc	38
ANO4	tgactgggatttgatagactgg	gctcaaactggggtcgtat	35
ANO7	gctctgtggtgatcgtggt	ggcacggtacaggatgataga	49
ANTXR1	tgggtcctactgaggaaagg	gacctgtggaagttgatgc	76
ANTXR2	atgaccgggttctttgatg	gagatggaactcgggagaagt	12
APOL1	agtctctgccaggggaagat	aagcagctccctccatgtc	25
AQP4	ggaaattgggaaaaccattg	gacatactataaaggccaccag	17
AQP6	ccttgggatcaacgtggt	agctgcagggtcagaagc	86
AQP9	gaacgcatttgcagatcaag	tcaaaaatggcaaagacgatt	49
AREG	cggagaatgcaaatatagagcac	caccgaaatattcttctgaca	38
ARL6IP6	tgctcttcgccattctctc	caaattctcagcatgcaactct	69
ARSE	cctcttctgatcggggatt	aacatgtgtctctctctactctc	12
ATP11C	cagcctgtccctgagattc	cagatgcccttctacagctca	2
ATP13A2	accagcaagcctctacc	ggtggacgtcgtcacaaga	75
ATP13A5	catcgggcttctgtcaac	gtggctcccgttaaccaaac	55
ATP1A4	tgcgaatgtaccactcaag	cgaagatgagaatactgtaggaat	21
ATP6AP1	cctgctctgctgctcattc	tgacctcatcgttgctgt	76
ATP6V0C	ttcgttttccgccgtcat	ccactgggatgatggacttc	76
ATP6V0E1	ctcactgtgctctcattgtg	caccaacatggtaatgataactcc	45

ATP8B3	aaggagctacgtgccaagg	gctccatggtgaaaatctcc	25
ATP9B	ccatgtctcctatcgtgcag	gagccatgtttccgcact	11
BAI1	gcaaaccaagttctgcaacat	ctccagctcgaccactcatt	86
BAI2	ggccctgcaacaattcag	gagcacaggctccaggac	52
BAT5	tgccctggagaaacatgc	gagatggaccagaataactgaagc	89
BMPR1B	cgaatgtaataaagacctacacccta	gtgtatagggtccatcaacaaaatctc	16
BRI3	cctgccaaactctatcgtggt	aagggtgaagcagtcctccag	75
BSG	gtcgtgctagtctcctggaacc	gacctctgtggcgctgtc	68
BTN3A1	tcagaggggaatgctaagagg	caagtatggtgaccgaagaaga	6
C10orf111	gacagagttttgccctgttg	tggagtgagccagggttcg	19
C10orf57	agagaagataaggaagatgagcaa	gtgcctctatgcctgtgtga	43
C11orf10	ctctcatgggctttggagt	tcagtgaagccatctggttg	4
C13orf36	aagtcgcgtgtcctgacc	gcacaacaaaactgttttcaa	62
C14orf147	cctggaagcagatgtcctg	caatggaaaccagcatgga	62
C14orf165	actaggaccccaccagaggt	attccttccagaaaacacatactc	75
C19orf12	cggtctgaagcactctg	tgtcatccaggcacctaaca	37
C19orf15	ggtcaatgtggtgggttca	aatgaacactggcaccatca	38
C19orf28	cgtcaccaacgacatga	caccacggtgaacgcata	39
C19orf56	aatgtaacccggccttg	caagcacaccacttcagctt	3
C1orf2	tgctattgtctgctgatcc	gtgggcctgagactgacc	7
C20orf103	ccacttcaaagacgcagtc	tgaccaaggcagagagggtg	76
C20orf54	ctccatgttcctgcctaacag	gtagcccccagcaggt	55
C22orf32	aagaaatggtgatgctctcagtt	cttccccgagcctttctg	8
C2orf28	ggttctgatttctcctga	cctggacattgggtgcat	20
C3orf57	ctaagccgcaggagataca	tctcctctctgggtgctgt	14
C4orf34	tcaagtaaatcaagctgggtaac	taggactgggactgccgtaa	29
C5AR1	ggagggacctcgcctc	ggggtgtataattgaaggagtt	54
C5orf28	aaggattcatgactttgtaatggag	gtgcagctctgacatcgaaa	55
C6orf129	aatctggcgctcgtcta	ggctgtggagtctggagttc	85
C6orf64	aaagcggttcctggtatgg	ccatggtgtctctgatgtgc	23
C7orf42	tgaattttgtcccagagaagg	aaaaacaaggagctgtggaatta	41
C9orf7	acacagtggcggagaaggt	tgatgacgatgggaacgac	29
C9orf71	ccgtggccacagtagacag	ccacctcaaggctctctca	78
CA14	ggaatcttgggtgctgtct	ccacactcttccggtttcc	2
CACNA1C	gaagctcagctccaacaggt	ttacttcataggctctatcctga	27
CACNA1G	aaagagaaggagtaaggagaagca	aagcgggagtagtcggagtag	41
CACNG2	accattccggattatgga	ttgctgcacagaccttga	62
CACNG8	cgacagcgcggagatct	cagcaggatggcgtaag	60
CADM1	gagftaacatgtaagccatcg	cgactctacccaagttacca	45
CADM2	ggcatatctaccgttctgg	gtcagctgcatcaagtcacc	9
CADM3	actcgacgagccatcag	gccaccactgtttcatcaga	50
CADM4	tagtgggcatggtctggtg	tggcttctgggtcagata	29
CALHM2	gaggccactggagagtcc	gccttggctgggctgtag	57
CATSPER1	cgagaaaaagtttgggacat	cagctgcaggtaatggaaca	18
CATSPER3	catcctcaagctatcggcta	cagaggccacggtgtagact	37
CATSPER4	gggacaacagcaacgaataac	agtggcagctgttcattctc	6
CAV1	acagcccagggaaacctc	gatgggaacggtgtagagatg	42
CCDC108	aagaacagcggagtgggtgc	cagagctccacgtcaatcc	12
CCDC109B	caggacctacaaatgaagataagg	gctgaaatcatgttgccatct	46
CCR5	ctaagctcaaggcgtgagga	cactccaacccaaatccac	12
CCR9	ttccccagacactgagagc	catggtgggtcagtcagatg	40
CD151	ctcgcctgtacttcatcct	ttctcctgagctccgtgtt	67

CD163	ctggcgtgacatgttctgat	ggctgcctccacctctaagt	50
CD164	cctccccctctacaactcca	ccaggacaattctccaatg	71
CD248	ccactagacttgctctcagg	tggtgtatccttggcacga	38
CD27	tccaaacccttcgctgac	tgccctccagcatctcac	30
CD274	ggcatccaagatacaaaactcaa	cagaagttccaatgctggatta	25
CD276	agctgtgaggaggagaatgc	tgctgtcagagtgttcagagg	7
CD300C	agcgtgaccagaaaggaca	gaagcggacattgctgaac	23
CD300E	gggaggtgttgacccaaaat	aggaccacgagcaggaagt	66
CD300LF	gccaccacttgacaacag	agcagcaatatgggaagatga	51
CD320	ctgcgacaggacttggga	gggtacatggctcaatcctg	63
CD37	tggaatcctcatctccact	tctacgacgtcccgaag	78
CD40	gctatggctcgtctgcctct	cagtgggtggttctggatg	45
CD44	caacaacacaaatggctggt	ggtgtctgtctttcatcttatt	40
CD63	tgaaatgtgtgaagttctgctc	caatcagtcccactgcaca	18
CD7	ggcgggtatctccttct	aattctatcccgccacga	23
CD72	ttctcacatgaggctca	agcagcttttctgatgcattatc	56
CD74	agcaaaagcccactgacg	agcagggatgtggctgac	72
CD86	ggaatgctgtgtgcttatg	tggtactcagtcccatagtctgt	54
CD8B	caggccagagaccagaa	gaaaccagcagaaccaggac	40
CD9	ctgctgttcggatttaactca	gtcgaatcggagccatagtc	56
CD97	cgggaagagaccctcctg	tcactctccagaaggcaca	17
CD99	gcttaccagaaaaagaagctatgc	attccgggtggctctccat	10
CD99L2	acttgctgatgctttggat	ggctgtggtggtacatggt	69
CDH10	tgacactttgtatgaaaatgc	agggtcatcttctactgcac	37
CDH18	ggagcctaatacgtattctct	cgctcaggggtataaaaag	2
CDH19	tcgtgaaatcagtgcttgg	gcacatacagtggtatcgaa	5
CDH6	tcacagcccaagatccaga	tctgtccatactgtgtcgcgat	73
CDIPT	gctgctcgcgctcttaat	ggccaggtgaccaacag	22
CEACAM19	caagacgccaagatggagat	tccagaggaccaggattgag	15
CEACAM3	tgtgtttcctgctcctg	tgctgctcctgagggtcac	89
CELSR3	gatcctcacaccatgtgc	ctgctgtgggcagaact	8
CHIC1	tgaatttccctcgttctaaca	cggccaatgctggttta	57
CHIC2	ttctgttaatgtacgttggctac	ttctcaatcgatcttctgttc	5
CHL1	ccatcatgaaacaccaccag	tgagaggctgaaccctatg	50
CHRFAM7A	gtggtgacggtgatcgtg	gcaccagttcagaaggatgac	77
CHRM3	gcagaaatcaccctctct	tgccactaatcagaacacaa	24
CHRNA1	tggtattctacctgccacag	cgatgaccagaaggaacaca	7
CHRNA10	gggcctctgctctgttt	cacggaacagcttgagagc	24
CHRNA3	tgaagtggaaccctctgac	ggaaatcccaacagcatt	43
CHRNA6	aaaccagatcatgaaaccaa	ggatcccagcgcaatttat	5
CHRNA9	ggccatgactgtatttcagcta	ggccatcgtggctatgtagt	87
CHRNA3	tcacctactcccctcgcac	ggtgctgtaagtctgggactg	32
CLCN4	ctgcctccattagaccctca	gcttgatgtgtgcagcttg	15
CLCN7	ggctctgtgattgtggcttt	gcactgatctgggggatt	66
CLDN1	ccctatgaccccagtcaatg	acctcccagaaggcagaga	66
CLDN16	tgctggagccacgttactaat	cacatacacatcaacagcatacca	21
CLDN20	cagtgctgctgtctctcaa	gcagtagagaaccaaatacaaagc	22
CLDN23	ttgcatcaatataatttgggttt	agtttgcatggcaaggagtt	18
CLDN9	agtgggtcccctttgat	cagggttcccaacacctct	44
CLDND2	aatgcaaccacggcatct	catgcacgccacagtcac	89
CLEC12B	ttctcaagtcacagatctccagtc	aggacatggattacatctgtggt	34
CLEC1B	actcggaaaccagctctcg	cagcagaatcaaagccatca	63

CLEC4F	gcattacctttgaacccaac	gataagctctgcatttctgc	9
CLPTM1	cagaagcggaccagaaat	tgggagatcacctccacag	30
CLPTM1L	agcaccgtggtcatctttct	tgcttcttcactttccaca	18
CMTM1	ggggaggtagccaacagc	ctggccgtctgaaccagt	28
CMTM3	ctgtgctggcccatgat	gatggagatagcaaagtagatgagg	4
CMTM8	aacaatgacctacaccaggattc	aaggcactgccgttaaagc	37
CNGA3	ctggccaaatgcaacactaa	tcgcatccttcttttcgct	63
CNOT1	ggactttcatcacagcttcca	gtccaagagcaccagttccta	27
CNTNAP4	tgtctcaagacgctactctg	gcagacacaagaggatcatcac	33
COL17A1	gctgtgaacactggcggtt	gtcatcgctctgcacactg	70
COL25A1	gggacacagggaaagatgg	ccctagaggacctatcaagc	2
COX8C	gactggagctgctgttact	tatcgctcaggtgagacaa	56
CPD	aacaaatggagctagttggtataatg	caattgtttgtaaatagttccagtcc	79
CR2	ggtgtccaactgtatcaaaa	ggttcccgttaggggtcta	10
CRHR1	agctccgtctcgtcaagg	tctcgcagtgtgtgtct	13
CRLS1	ccgaacttccaacaccac	ccttgctgatgaatgttggt	59
CSF1R	tctggtcctatggcatcctc	tgccaggttagggattca	14
CSF3R	gtccaagatcacaaaagctggt	ccgcactcctccagacttc	18
CSPG4	gagaggcagctgagatcagaa	tgagaatacagatgtctgcaggt	78
CSPG5	tgcgaccttctccaagfta	tgtagtctcgtgttgac	22
CUZD1	tcagaattatctttctatgtccag	gcagactgccctagcagag	67
CX3CR1	tctctgtaaagctgagcagga	gggaactgatccatggtgaa	83
CXADR	atgaaaaggaagttcatcacgata	aatgattactgccgatgtagctt	86
CXCR6	gcaaagcatctctgctggt	gaacctatgtcttcatggtaatca	53
CXCR7	agaggctccttctgcagtg	gcactttgcaacaactgtgag	71
CXorf1	ggtcaacctgtgtgcctg	ttgaagggtcatttcttactca	67
CYB561D1	cttggcgttctgcctctg	agggagtgtcaggtgagaaga	41
CYBRD1	aactggcaccagtgctc	cggcagctctgtagacgatga	37
CYYR1	gggtctgtctccaagtt	cactgagcaaggcaatcatc	15
DAD1	tggattttctcagattgacact	agttgttctgacacacagtgaactc	2
DAG1	tccagtgagatatcatcaaggt	tcccagtgagccaagat	12
DKAKD	gattcgcaaggagatgatgaa	agcagggggatccagaat	69
DDR2	accttggctggactctcct	agagcattctgggaatcagg	14
DEGS2	gcgacttcgagtggtctac	ttgatggccgggtactg	28
DLK1	gacggggagctctgtgatag	catagaggccatcgtccag	68
DNAJC15	agattcagatagagtgccagcat	tggaatgaaccaagattgt	48
ECE2	tggaccaggtgttgatgag	gagaggcacctgtaagacc	78
ECEL1	accggctgctgtacaagg	agcccccttggtcaatg	64
EDA	ccaagggtcagcaattcaag	tgatgcgagaccagtcattg	39
EDA2R	ccagcccttaacttaatgagg	tgctgctgttggtatagga	61
EDNRB	cttggagtctggacatctgaaa	ctgcatgctgtacctgct	21
EFNB1	ctggccaagaacctggag	caagcccttcccactcag	1
EGFR	acacagaatctatacccaccagagt	atcaactcccaaaccggtcac	50
ELFN2	agccagtgtaaggttaggg	cagacaggagaggtggcaat	20
ELOVL6	gtttgaactgaggaagccattag	cagttcgaagagcaccgaat	54
EMP3	tccgactccagctctgactt	caccagcaagaggagtgaca	86
EMR2	tcatggcccactacgatgt	cagccccatgtaggatgatg	63
ENG	cttctggagttccaacg	ggtgccattttgcttggga	80
ENTPD1	tgagatgatgaaaagtctgtgc	cctttactccagcgttaagatgtt	52
EPGN	ccgtgactgtaacacctcca	ttcaaggctatgggtccttc	26
EPHA10	aaggaactggatgcgaaaag	cagcacagctcccaaac	25
EPHA2	ccagtgctcagcatcaaccag	acgctaagcaggtggtg	19

EPHA5	tctgatccaccacaatgg	ttcattaacattgagatggcatt	68
EPHA7	gaggatgatccagaagctgtctat	gggtgctgccacctactgg	31
EPHA8	ccgctgtggtcaacatca	cgctcttgacggatcacc	27
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EPHB3	tgccaaggagtcccagtg	aggtggtacggctgttg	16
EPHB4	ttggctccttcgagctg	ctggacactggccaagattt	73
ERBB2	tgctgtcctgttcaccactc	tcctcctcatcatcttcacattg	67
ERBB3	cacaatgccgacctctcc	cacgaggacatagcctgtca	86
ERMAP	ggccactggaagttggag	tcctccccatgcagaga	32
F2R	taaccgccccagacacag	ccctctctcctgactctgc	13
F2RL2	ttatctagttcaccttgccttctt	gctgaagtgagctatgatcagg	41
F3	cagcccggtagagtgtatgg	ccacagctccaatgatgtagaa	2
FAIM2	ccctagctgggctatgtg	gtggggaaaccgtgtcata	3
FAIM3	gccagctacaaccacca	tgtgagccatagtccagtg	64
FAM174B	gactccacagtattcgacatcaa	accaactttccacaggatgc	64
FAM176B	atcacgtcgcagggtgt	gagcaactccatgtcccttc	24
FAM38A	tgaccttggtgccatgt	cagcttctcttcacaaactgg	18
FAM70B	ctaccctctgcccttcag	tgagggtcctcagacgaag	48
FAT	ccttctgacagcgactccat	cagggatcaagatccaccac	33
FCGR1A	tggaagatcgcgtacac	gcactggagctggaatagc	18
FCGR1B	cagctggaatccacagagg	gccagaggttctccttccat	67
FCGR3A	agggggcttttgggagta	ggttgacactgccaaacctt	9
FCGRT	ggaaacctggagtggaagg	tgcaggtgaagcacggaaaa	3
FCRL2	tccagagcaagggtggaat	gagacctgagggtaggaca	47
FCRL5	agatggtgacactgaaagtgc	agcctctcagggcctcac	62
FFAR3	tggggtctcaagaagcagt	gtgattgccggagaagtagg	77
FGFR2	cctgctggagacaggtaacag	cgggggtgtggagtcat	17
FGFR3	gcctcctcggagtccttg	cgaagaccaactgctcctg	29
FIT1	cacggcaacttctcaacataa	caacacaaagccccctaaga	45
FLJ20674	caccgagctcctgttact	tcctgatccatctgtgc	24
FLJ22222	aggaggggtgccaacaagac	caagacatcatccggaaca	42
FLJ35773	agcaaggaacgaatggactg	cagtccagggcaggttcc	73
FLJ40235	cacgatggaggcccaata	tcctcgtgaaggcctgttc	47
FLJ46321	tattcgtcaccaccgaaa	ttgaatgtcccaccttcc	21
FLT3	ctttaagcacagctccctgaa	tgacctggaacaactcctc	5
FLVCR1	cccaaagagggtccacag	ggtagcaaaaagccaactgc	61
FMR1NB	ggatgctcatgctctccatt	tgcaagcaciaaatatgaggac	18
FNDC3A	tctgctgctactgtaaaaacgaa	atttggggacatcattggaa	15
FNDC3B	cccacttggatgatggagat	cacctggattaactgaacgaga	62
FOLR1	ttcctgagagtacagatttctc	cctactacagccaccacact	68
FPR3	gtgtgggaagatggaacca	agggagcacctcctcagttt	6
FRAS1	agcacaacacacctaacaacac	cagttacctctggctgattgc	18
FREM2	gacatccgattccaacaggt	ggtacatttgggtgtcaagc	66
FRRS1	tcattggagtatgggaacagc	aatccattcccaggaacatc	59
FXYD1	agtcaaccagcagcagagg	tcgctccaggtgttctacc	58
FXYD3	tcagcctggtgaaccaca	gacaggaaggctggcatct	26
FXYD5	ttcaggtcccagacagag	aggttgggggttgagagg	19
FZD3	acagcaaagtgagcagctacc	ctgtaactgcagggcgtgta	75
FZD7	gccagcttgtgctaatagaa	agccgggagaaactcacag	54
GABBR1	ggctcctggacagatatgga	ggtcaataagacttggagcaga	28
GABBR2	aagaccttgaacactttgcac	cccaaaagcggctgtgta	85
GABRD	acgggtggagaacaagctca	ggccacagtggaggtgat	89

GABRE	tccagtcctcctagcatctt	cacttatgattgagcacttctctg	65
GABRG3	aaaagatgctacgccagcaa	tcaggggtggcatggctcag	9
GALR2	atggacatctgcacctcgt	gtaggtcaggccgagaacc	38
GDAP1L1	gcccatggatgcctacac	tgccattggctaaatgtctg	46
GDPD2	cagggaggcaacagaacg	ccgagacattatccttatgcaa	57
GDPD4	ggcggagagagactgaaaaag	cattcttactccactctgagtatctg	67
GGT7	acctgcagtccaacctcct	tggttccaggaactcaatc	6
GHSR	accacaagcaaaccgtgaa	aaatatcgccctacgtggaa	36
GJA8	ccgtgggacactcctgtat	tgacggtaggagtgtcatt	25
GJB1	ttatctgctctaccctggctatg	aggggtagacgtcgactt	28
GJB4	ttgtctgcaacaccaagca	cggggaagaactcgcatag	43
GJC3	caagaaagcaaccgatagcc	tctttgttttctctgggctaag	31
GLP1R	cagcgtccctgactgag	caggcgtattcatcgaaggt	10
GLP2R	ttttcattcagttgacactgagc	ttctccattggcaaaacat	49
GNRHR	cacgggtccttcatcagg	gcaaatgcaaccgtcatttt	41
GPBAR1	caatacctgctcccaacagc	ggcgtcatcttggctcctg	1
GPBR	gtgaaatccgcaaccatga	ggaggtgtacctctgctgga	49
GPM6A	tgaccttcgtcagtttg	tcaagaaattctcagagacagtacaaa	55
GPNMB	aaaccaccccttcttagc	tgccagtttcatcaggaatc	62
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TMEM55A	cactccggaaatgtcactcc	tggcaatggctgtatatgga	45
TMEM60	tcattcctttatgggcctg	aaaaagacattatatccgagttctgt	45
TMEM61	tccttaccaccacaccttc	ggctcccgtcacacatct	24
TMEM63B	cagatgcagacaggctcg	ccccgtgcatagctgaag	51
TMEM64	ttcagaatgcagtgtttcgat	gcaggggtgtaccaagtaa	38
TMEM67	ttcagtttaaaaggagaaaaccag	ctccttctaaagttgccactg	38
TMEM77	ccatatagaccggctttacc	cattgccccaaataagcatt	50
TMEM82	ccatctgtacacgctgct	gtctgcacctggctctgc	63
TMEM85	tcattgagccccctgaga	cgctgcttctcatgttcac	22
TMEM86B	ggacgctgtcctcatctg	aggggagagaagccgaag	10
TMEM88	gtcaccatgctgggcttc	ccagtagggccgtgaaac	53
TMEM89	tgatctgccgaagatactg	aggggtgtggtctgagattgg	49



TMEM92	agccaaatgtggctcatcc	ccaggaagatgatgacgaaga	2
TMEM93	gacctcccggcagcttc	gcgccggacacactacta	86
TMEM95	tctctgcttctgggtgctc	gcgcttcacaagccacttt	10
TMPRSS11F	ggagccagcctcatcagtaa	caatccattgagttgggtcttt	46
TMPRSS4	cgaggagcactgtgtcaaga	agtgtggatcggtccttg	59
TMPRSS5	gctctgctccctgcactc	gtggctgatccctcacttg	11
TMPRSS6	gccagtggacgatccaga	gatcctctcggcgtaggg	75
TMPRSS9	catcatcaacgccaggtg	ttcgtcgggtcttggaaact	84
TMTC3	ccgactcaagcaggcttac	gctcctttgctttaagaggttt	82
TNF	cagcctcttctcctctgat	gccagagggtgattagaga	29
TNFRSF10B	tcagccttatcagtgtttaagattg	gagccaagatcgtagcgttg	19
TNFRSF12A	gaccgcacagcgactct	cacgaaggcaggctcaga	26
TNFRSF18	aggccaggggtacagtc	aaggtttgagtgccctc	47
TNFRSF19	ggagtgtgtgcctgtgga	gcgatctcagcagggtga	63
TNFRSF1A	gagaggccatagctgtctg	gaggggtatattcccaccaac	59
TNFRSF8	tgtgtcccctacccaatctg	tggtgtccttctcagccata	45
TNMD	gccggaggtacccaaaa	ctggtcacaggatcaattcc	86
TOR1AIP2	gatacactgaggaggcgactg	ccaattttgtgtttgtgtgg	11
TP53I13	ccaagagtgcactacacacgag	caggggtgtagaggaaggt	30
TPBG	cgctactctggtggaactca	cctctcgcctctgttgg	70
TPE	tggatttgacctagacctcactt	accgcacaactccttgatt	8
TREM2	tctgagagcttcgaggatgc	ggtgggaaggggatttctc	80
TREML1	cccagattttgcacagagt	actccaatcttatgggtctct	6
TRPC3	ttctggccattggctact	aaaagggcttcgagaattt	40
TRPM1	taactgccctgctgaaagga	agccagtccaagctcag	50
TRPM3	cggacctctaccacaacc	ctcgctcaaggaatatca	3
TRPM5	agctggacacggtcatcct	tgagctcatccagatagctctg	76
TRPM6	aaagtcaattggagttgacaaga	tggtctgagaaagcctcatta	75
TRPM8	ggtcctgtactcgctggtct	cacccatttacgtaccactg	35
TRPV1	cagcagcgagaccctaa	cctgcaggagtcggttca	22
TRPV2	cccctgctactgagaagctc	gtcgggtgtggcctgact	3
TRPV4	caacaacgacggcctctc	ggatgatgtgctgaaagatcc	46
TSPAN1	ccctcgtgacgttctcttc	gcaacgtcaggaagtgtc	63
TSPAN10	tctgtccagcgtcaaggat	ttctggcctgcagtttct	55
TSPAN13	ccctcaacctgctttacacc	aatcagcccgaagccaat	84
TSPAN17	gacgtccggctcaaactg	agcctttggtgtgaggaag	24
TSPAN6	ttggagttgctgtctcca	ttgggttacactatctcactggtt	34
TSPAN9	gttctctcaattgatattctg	gagagccagatgcccactc	5
TUSC5	catcatgggcatcgctatta	cccagctccctgcttaagtt	49
TYROBP	gagaccgagtcgccttatca	ctgtgtgtgaggtcgtgt	1
UBIAD1	cacttggtcttatctactttgga	gtctccagagccacgtact	36
UNC50	gacctgcttctgtgtcct	gtccagcacaagccaaatc	21
UNC5A	agcacagacgggagcagt	cctgctgcctgagacatta	44
UNC93A	accaacagcaccagagg	atcatcaggacagccaggac	3
UNC93B1	gcaactggtatcgcttgg	taagccacgaggaggaagc	19
UPK1A	ggtagccagttttgtgtgg	agcatgagcaccaggtacg	70
UPK2	gcataccaggtgacaaacctc	tggattccatgttctctg	72
UTS2R	gtacgtctacgtgtgcaacctg	cacgatgaaggggatgct	62
VAMP1	gtgctccaagctaaagagg	agatggctcccagcatga	31
VAMP3	cgaagactcagcagacacaa	tgtccacgttaactcgatt	77
VAMP5	agcgttcagaccaactcctg	ccacgcagatccggtaac	14
VANGL1	ccctgttgggaaatgattctac	tctctcccagttgtcatcc	6

VAPB	tttgctccaactgacactca	ccataaggtctccggtttg	38
VASN	cgccaggaaagactgagg	accctggagcacatcttctg	70
VLDLR	ggagaagatgaagaaaactgtgg	catcctggccattgcatac	80
VSIG4	cactgacatggatggctacct	aagacaggcaggctctttcc	54
VSIG8	acaccgagcctagagacatga	gttgatccgcacagcagac	25
WBP1	ggttactgcttgacctcg	gcctggggccacagtataa	73
WBSR28	acgaggtctcagtgtgtt	acaccagtggtgaagagg	68
WFS1	ccaagtccctgcagaag	atccagcgcgatgtagtct	89
XCR1	ctgggctcaagcaatcttc	gcaggacggttagagcatc	33
XKR6	tctggagtgggggaagt	tgagtctgccacccaac	27
XKRY	gcatctggagaaaattcagtaaaa	cctacccttctccatgagtata	73
XKRY2	gcatctggagaaaattcagtaaaa	cctacccttctccatgagtata	73
YIF1B	gcaatggcttcatcacctac	aggaggtctggggagaacc	83
ZDHC1	ggcttgggatcctgttc	caaggtggcagcaaaga	51
ZDHC12	gaatcacgctggtgctctc	caggagcaggaaggtgagg	24
ZDHC16	gcctcaggcaaaatcag	taaccagcagcagaaggag	13
ZDHC19	cctgcaatggtgtccaag	gcagtggtggtcaaagtct	38
ZDHC20	cgctgtggacagtgaatc	tgcaaatgaaaattgaaaatacca	19
ZDHC4	tgaaaattaccaaccaagagaa	gcaccgaagccaggtaga	35
ZP1	gccacagggtccatcac	gttgaagacacagcgacat	11
ZP2	agtgaacgtgtcgtggat	ggatggaaggtggtctgta	85
*RPL27	atgaaacctgggaaggtgt	gtagggcgatctgaggtg	20
*BCR	ctatgagcgtgcagagtga	agctccacggatgtcagg	32

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\*Primers used for reference genes.