

Supplementary Information

In Vivo CRISPR Screens Identify RhoV as a Pro-Metastasis Factor of Triple-Negative Breast Cancer

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Note: 3 Supplementary figures and 4 Supplementary tables.

Fig. S1. RNA-seq based metastasis-related library construction.

Fig. S2. RhoV ranking in overall and independent metastatic foci.

Fig. S3 RhoV is frequently up-regulated in breast cancer, associated with poor clinical outcome, and essential for cancer cell migration.

Table S1. sgRNA sequence of genes in metastasis-related library.

Table S2. MAGEck ranking of screen hits.

Table S3. Correlation between clinicopathologic variables and expression of RhoV in FUSCC 360 cases of TNBC.

Table S4. Univariate and multivariate analysis of DFS in FUSCC TNBC subgroup.

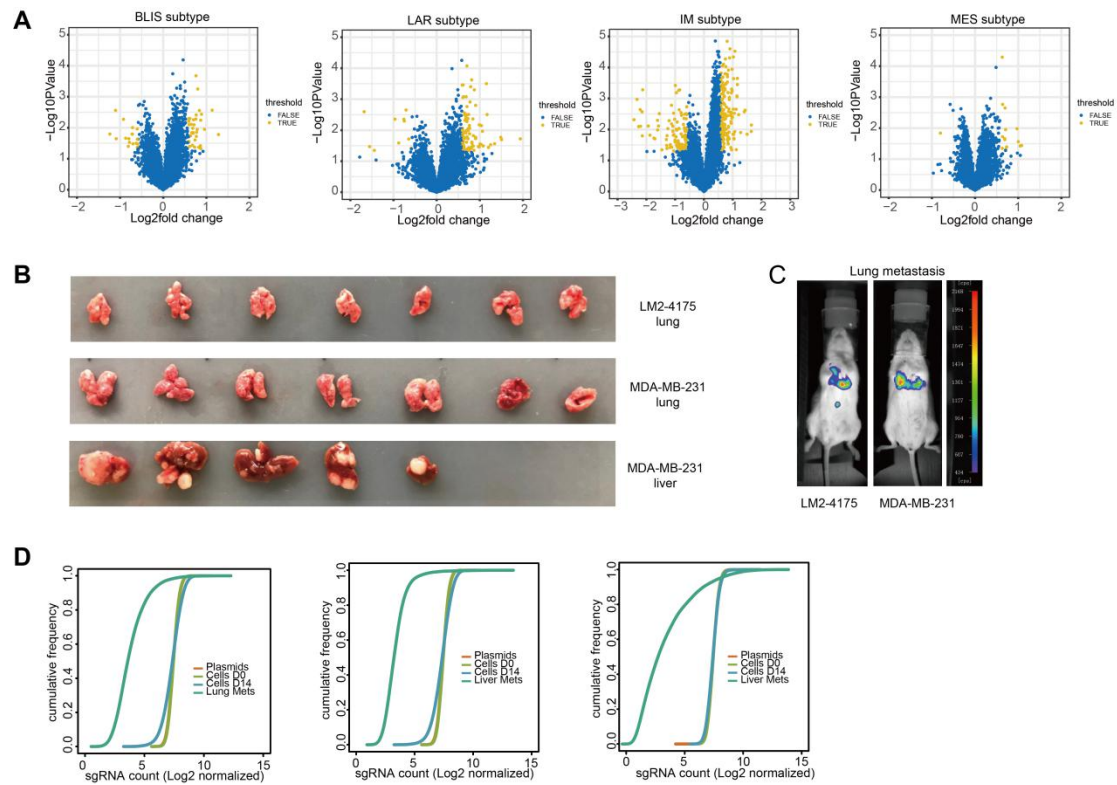
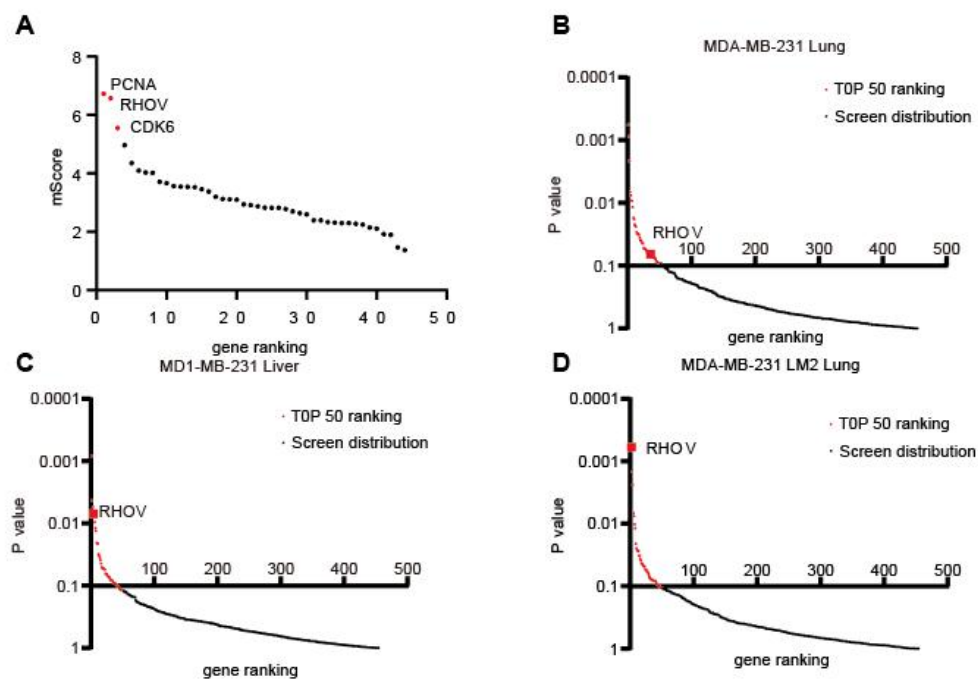


Fig. S1 RNA-seq based metastasis-related library construction. (A), Among Fudan University Shanghai Cancer Center (FUSCC) triple-negative breast cancer (TNBC) four-subtypes system, differential genes between FUSCC TNBC with or without recurrence and metastasis within three years. Each yellow dot represents a gene with $P\text{-value} < 0.05$ and $|\log_2FC| \geq 2$. (B), The growth of xenograft tumors and lung metastases was monitored by bioluminescence imaging. (C), Pictures of the lung and liver metastasis removed after 4 weeks. (D), Cumulative probability distribution of sgRNAs in each experimental group. Distributions for each sample type are averaged across individual mice and infection replications.



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3 **Fig. S2 RhoV ranking in overall and independent metastatic foci.** (A), Ranking of
 4 the RhoV according to mScore value in overall metastatic foci. (B-D), Ranking of the
 5 RhoV according to p-value of MAgEck algorithm in MDA-MB-231 lung,
 6 MDA-MB-231 Liver and MDA-MB-231 LM2 lung metastatic foci.

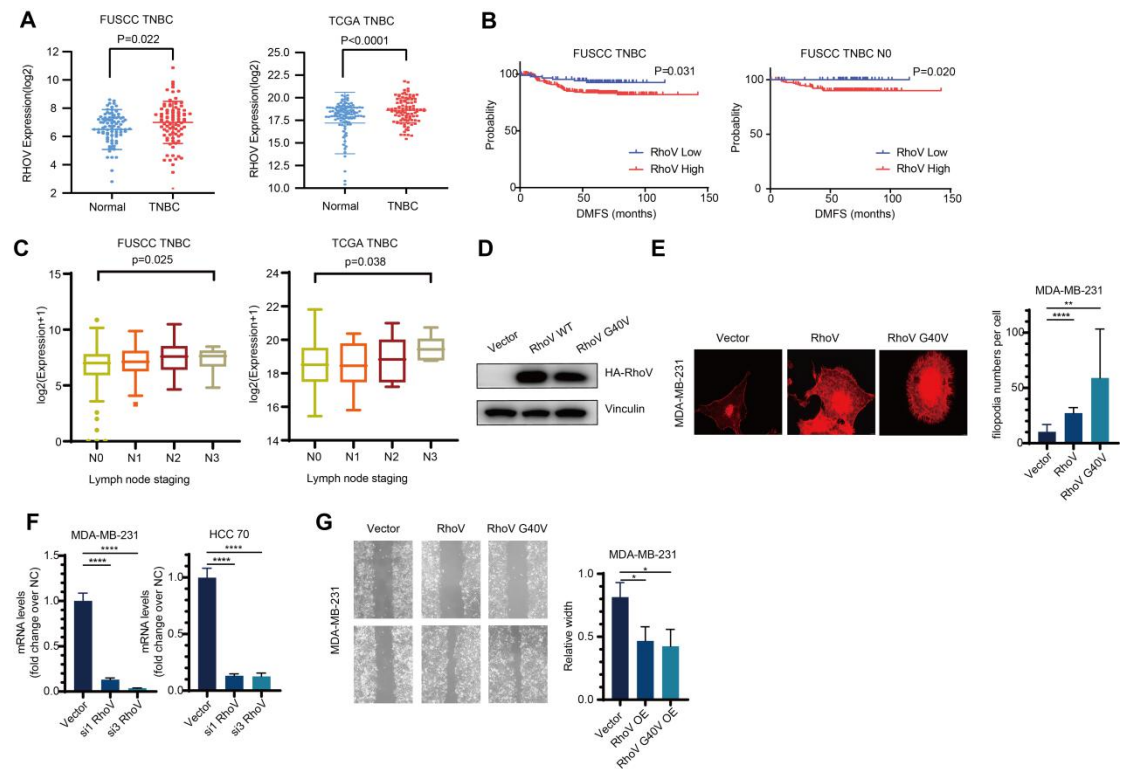


Fig. S3 RhoV is frequently up-regulated in breast cancer, associated with poor clinical outcome, and essential for cancer cell migration. (A), Significant correlation between RhoV expression and TNBC tumor in both FUSCC and The Cancer Genome Atlas (TCGA) data sets. (B), Kaplan–Meier analysis of distant-metastasis-free survival (DMFS) in FUSCC cohort and FUSCC cohort negative lymph nodes. (C), RhoV expression across the different lymph node stage of TNBC in the FUSCC and TCGA datasets. Whiskers indicate the minimum and maximum values. Student t test. (D), Western blot analyses of overexpression of RhoV and RhoV G40V. (E), MDA-MB-231 was transiently transfected with RhoV and RhoV G40V, filamentous actin was visualized with TRITC-conjugated phalloidin. (F), qPCR analyses of siRNA-mediated knockdown of RhoV in MDA-MB-231 and HCC-70.(G), Wound-healing assay for MDA-MB-231 cells transfected with RhoV and RhoV G40V. At a high cell confluence (>90%), a cell-free space was generated

1 by scrapping with a pipette tip.

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Table S1. sgRNA sequence of genes in metastasis-related library

Gene	sgRNA sequence	Gene	sgRNA sequence
ABCC2	GATGAAGAACAGGCAGGAGT	LYNX1	ACCAGTGCACGGGCTTCGGA
ABCC2	GAAAGAGCTCAAGAACCTGC	LYPD1	GAAGTGATGGAGCAAAGTGC
ABCC2	GAAGAGGGTAATGGAGGTGA	LYPD1	CATGTGTCAGAAAGAAGTGA
ABCC2	GCATGCTCAGGGGAAAGCGC	LYPD1	GAAGGACTGGTACCCGGCAG
ABCC2	GAGGTACCAGCAAGTACTGG	LYPD1	TAATTTGAGGAACAGGATGG
ABCC2	GGAGCTCTGGGATTAGCCCA	LYPD1	CAAGTCCTGTGCATCATCAG
ABCC2	GATGATGGTGAAGACAGGAG	LYPD1	GGGCCAAGGCCCAAGAAAAG
ABCC2	CAGACGCCTCAGCTGGCGGG	LYPD1	AGGATGGTGGTGCAGGAGCCC
ABCC2	GGATGAGGCCACTGCTGCGG	LYPD1	AAACTGAGTTCAGTTTCCCT
ABCC2	GGTGTGCAGCCTGTGGGCGA	LYPD1	GCCTTGGCCCGTTACAAAGA
ACADL	AAGATGTTCTCATTCCGGAG	LYPD1	GAAGTTCTGCCTCGGCCCTC
ACADL	GCATCTTGGTGGAATTGGAG	LYPD6B	CTATAGCGAGAGCGTGACAG
ACADL	GAAGCTCCCTCCCCTGCCCCA	LYPD6B	GTTCAGAATCTCGGCTGTGG
ACADL	GCTAATACCATGGGCAGGGG	LYPD6B	GTTTCATCACTTCACCAGCCA
ACADL	ACAGTTGTCCACAAATGCTC	LYPD6B	CACTACTTACGGTCGAGAGG
ACADL	ATATTTCGCCATGCAAGCAG	LYPD6B	GCTTTACTTGTGAAAACGCA
ACADL	GACTGTGTACAGCTCCATGG	LYPD6B	GTGGTTGTCAGGCTCCTCTC
ACADL	ATGGAGGTTGGGGATACATG	LYPD6B	TTACCTTGAGAAGGAGAATG
ACADL	ATGGCCGCACGCCTTCTCCG	LYPD6B	AGCATGCTGACCTTGTGTGC
ACADL	GGGTCCCTACGCGTCCTGGG	LYPD6B	TGATGGATGTGCTTCTTCCG
ACE2	GGGAAATTCCCAAAGACCAG	LYPD6B	GAATGGTGGCATCACAGCAA
ACE2	AAGGCGAGAGATAGTTGGGG	MACC1	GGCCCAGACACAACCTTGCGG
ACE2	GAGATGTCACATTTGTGCAG	MACC1	TGGAAGCATTATTACCACGA
ACE2	GATGGCTATGACTACAGCCG	MACC1	GTGGATATAATCCCAAATGG
ACE2	CCAGGTCCCAAGCTGTGGGA	MACC1	GCAACTGGTTCAACATTGGG
ACE2	GAGGTGGATGGTCTTTAAAG	MACC1	GGACACAATAGCTCTCCTCG
ACE2	GGCTTGGAATAATCAGAACCC	MACC1	GGGACAGATGTGAGTAACCC
ACE2	AATCAGCCATATGGAAACAG	MACC1	ACTCACAAAGCAACAAATGG
ACE2	GAGCAGCAGTTACAGCAACA	MACC1	CACATCAAGTTCATCACCGG
ACE2	TGTGGAACATACCTTTGAAG	MACC1	GCAAAGTAAACCATCAAGGA
ACSL1	GAAAATACCGGAACAGCTCA	MACC1	GAGTCAGGTAATGTATCTAG
ACSL1	GTTTCCGAGAGCCTAAACAA	MAOB	GGGTTCCCTAGAAGCTCTGG
ACSL1	CAAACACCACGCTGAAGCGA	MAOB	GAGACTGCCACACACTGGAG
ACSL1	AAAGAAGCAGAGCTTCGCAG	MAOB	CATGAGCAACAAATGCGACG
ACSL1	CAGCACAGTGGCAGACACCG	MAOB	GTAATTGGATTCCATACAGG
ACSL1	GTGGAACGAGGCCAGAGGTG	MAOB	TGGTATGTGAAGCAGTGTGG
ACSL1	AGTCACCAGCATGAAGGCGA	MAOB	ATCATCTCGACAACAAATGG
ACSL1	AGGCAACCCCAAAGGAGCAA	MAOB	ATATTGAGTCAGGATCCCAG
ACSL1	AGCTTTTGTGAAAGCAACAG	MAOB	GCAGTCAGAACCAGAGTCTG
ACSL1	TCAACCCACTGTCTTCCCCG	MAOB	GAAGCCCCGGGACCGTGTGGG
ADAM12	GAGGTCCCCACTCCCAACAG	MAOB	GGAGGACAATGGATGACATG
ADAM12	GCAGGGCGCGAGCAGAGCAC	MAPK10	GAATAATTCCAGCAGAATGG

ADAM12	GGGGTGAGCTTATGGAACCA	MAPK10	GTATGACCCAGCCGAAGTGG
ADAM12	GGGCTGTAGCTGTCAAATGG	MAPK10	GCAGGTAAGACATTCGCTCA
ADAM12	GACCAGCCTGGAGAAAGGAA	MAPK10	GAAAATCCTGGACTTTGGAC
ADAM12	GGAGGCCGGATTCTGTGCCG	MAPK10	GAGCCCCTGAGGTCATCCTG
ADAM12	GTCATCGCCCAAGTACACGT	MAPK10	GGGATGGGCTACAAGGAGAA
ADAM12	GTGCCTGCAAGCACAAGCCC	MAPK10	GCTCGGAGTCCGCTGGGAAG
ADAM12	GAAGAAGCTGAAAAGCGTCC	MAPK10	TGTTTCAGCCAGCCAAGCCA
ADAM12	GCCCATGTCTGAGAGGGTGG	MAPK10	ACGTTATTACAGAGCCCCTG
ADAM32	AAAGTGGTTCGCCAAGGAAG	MAPK10	ATCTGGGAAGAGTTTGGGGA
ADAM32	ACACTGTGCACCTTAAACAA	MCF2L	CAGGACGGACGCCTTCACGG
ADAM32	AATTCAACTGCAGATTCCAG	MCF2L	GGCCCAGCTGAACGAAACCG
ADAM32	AAGCCTGAAAGAACAACCAA	MCF2L	GAAGCAGGCAAGCATGGAGG
ADAM32	AACACTGCTCCCAAATAACG	MCF2L	GTGGCGGACCACGAGAAGGG
ADAM32	GAAAGGCTTTCGAGTAGGGT	MCF2L	GAAGGCCGGGTAGTCAGGGA
ADAM32	CGGCCAGCAGCAACCAGAGG	MCF2L	AGAGAAGAAGGACAAGGCGA
ADAM32	GCACGTGCTGAGTGTGACCA	MCF2L	CGGGCCTCACCTCTGCACGG
ADAM32	CGAACTTGTGTACTGAAAGA	MCF2L	GGAGCTCCTGGCACTTTGGG
ADAM32	AATGGAACCTCACCAGAATG	MCF2L	GCTGCACCGCCGCTGGAGA
ADAM9	TGTGAGACTAAAGGATACGG	MCF2L	TCAGGCTGGCCTGCCTGCGG
ADAM9	ACAGCAACCACCGACACGA	ME1	GCTCTATATACAGCTTGCGG
ADAM9	GGTGGGCCCAGTCCTCGGTG	ME1	GCTGATGGGTGTGGCGGCGA
ADAM9	AAAACAGTCGCTAAGAGCAA	ME1	GCAGTGCTACAAAATAACCA
ADAM9	GGACTGGAGATTTGGACCAA	ME1	GTTTGGTGTTTCGGAAGCCA
ADAM9	GGGGTGCTGGTGATGTGCTG	ME1	GGATGTGGGAACCGAAAATG
ADAM9	GATCCTGGGATGGTTAACGA	ME1	GAGACGAAATGCATTCACAT
ADAM9	CGGACACGAAGGGTCCCCGA	ME1	GATTGCACACCTGATTGTGA
ADAM9	GTGTGTTCAAGGAGCCACGC	ME1	ACAACACCAAGAGCAACTCC
ADAM9	ACAGTTTGGACAAATCACTG	ME1	ACGGAACCCTCACCTCAACA
ADAMTS15	GACCCCGCCAGTAGTAGCGG	ME1	TAATGGAATGGGCATCCCTG
ADAMTS15	GGTTCGCCCCGCGAAAGCCA	MED24	AGGGTGTTCTACTAAACAG
ADAMTS15	GCGGCGCAGCGCAACAGCCA	MED24	TGCAAGCCTGGAAGGAGCGC
ADAMTS15	TGGACCCTTACAAGCCGCGG	MED24	TAGCTGTCACGGCAAAGCAG
ADAMTS15	GCGGTACGTGGAGACGCTGG	MED24	GGGGCTCATTGAGTCTCCCG
ADAMTS15	GCTGACGCTGCTGGCAACGG	MED24	GGAGCTCATACTTGCAGCGC
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ADAMTS15	CAGCACTGCAGGCTGACCAG	MED24	AGACCACTCTAAGTCACCGG
ADAMTS15	GCAGTACTGCATGTAAGGAC	MED24	GAAGGATTTTCAGCTTTCCAG
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ADCY1	GTCCCATCTCCACACAGCAG	MED24	CGAGTCGCGCACAGGAGCTG
ADCY1	GCAAGCCCAGGACACCACAG	MFAP5	GGGGTCAATAGTCAACGAGG
ADCY1	GAGGGCATTAAAGAACAGCCT	MFAP5	GCTATAGACTGGATACCCCT
ADCY1	GTTGACGCGAGTGCCCGGGG	MFAP5	GAACTCACCCAAGTCATCTG
ADCY1	TCTGGCGGGCTTCTAAGAGG	MFAP5	GCTGCATTATCATCACCTC
ADCY1	GGAGCGAGAGGACATGGAGA	MFAP5	AGCAACAATCATACCTGCAG

ADCY1	GAAGTCATTGAAGTTGGGGA	MFAP5	GCAAGAAACAGCAGCACCTT
ADCY1	GGTGGGCGCTAGCCCCACAG	MFAP5	GATCCCGCTACAGATGAAAC
ADCY1	AGAGCCACATACCAACTCGG	MFAP5	CACAGAGTAGAGCCTTGTGC
ADCY1	GCTGCAGCTGGGGCACCTGC	MFAP5	AAGGAACACGAAGCTATGAA
ADD3	AAAAGTACATACTGAGAGG	MFAP5	ACGTATGTACATCGTCAACA
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ADD3	GGAGAGAATTCAACTGCAGA	MIA	ACAGCAAGATGATGACACCA
ADD3	GACTCATCTAAAGTTAGTGG	MIA	GTCCTGAAGGGCCACAGCCA
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ADD3	ACTTGGAGAAACATTAGAGG	MIA	GGGTGGTCTCTATGCCCAAGC
ADD3	GTAGCAGCGTCTGGTGGAGG	MIA	GTATGTCTTCTCCAAGCTGA
ADD3	AATGGGTTAGGAGGAGCTGG	MIA	CCTGACACCAGGTCCGGAGA
AFF3	AACCTGGCCAAGGAAAACCG	MIA	GAGGACCAGACCCTGAAACC
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AFF3	GTAGTGCTACAGATAGACGA	MLLT4	GAAGGACGAAGATGACGAGG
AFF3	GCGGCCAAGCACAGCAGCAG	MLLT4	GGAGGCTGAACGAAGAGCGA
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AGR2	CTGCCCCAGACCTCTCCAG	MLPH	GCTGCTCTTCCGGATGGGAG
AGR2	GCTGACTCCTACCTCTGGAG	MMP11	GCAGCACACAACAGCAGCCA
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AGR2	AGAGATACCACAGTCAAACC	MMP11	GGAGCAGGTGCGGCAGACGA
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AGR2	GACAAACACCTTTCTCCTGA	MMP11	GAGGCCTCACAGGCATCTGG
AGR2	CTGATGGCCAGTATGTCCCC	MMP11	CCAACTGCCATGGGAACCGA
AGR2	TCTGGCCAGAGGTGTAGGAGA	MMP11	GACGCCACTCACCTTTACTG
AGR2	TCGGCTCTAACTGTCAGAGA	MMP11	GAGTCTTGGGGAAGAAGGCA
AGR2	TGACACTGGAATTTCTCCA	MMP11	CTGGAGGTGACAGTGGGCCA

AGR3	AATGGTTATTCATCACCTGG	MMP11	GACGCGGTCTCCACCATCCG
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AGR3	CCTCTTGAGAGTGTCTGAGG	MMP16	GACATTCTGGGGTCAGTCGG
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AGR3	GAGGATTGTCAATACTCTCA	MMP16	ATTTTGA CT CAGATGAGCCA
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AGR3	AAGAACTGTGACGAGTAAG	MMP16	GGTAGAGGTCTTGTAGGTGG
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AGR3	GTGCCTAGAATCATGTTTGT	MMP16	TGGCTGAATCAATACCATGA
AKR1C1	CTGCGCTACCAGCTACAGCG	MMP16	GAAATGAAAACAATGGACCC
AKR1C1	ATTACCATGGTTCTTCTCGG	MMP7	AGACTTACCGCATATTACAG
AKR1C1	AGCTTCAATTGCCAATTTGG	MMP7	ACAAC TTT CCTGAAATGCAG
AKR1C1	GTGGAGAAGTGTAAGATGC	MMP7	TGATGGGGCCAGGAAACACGC
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AKR1D1	AAATGAACACGAAGTTGGGG	MOXD1	GAGTCCAGGAGGGTCCGGTG
AKR1D1	GTAGGTACCAAGTCCGATGA	MOXD1	CTGCAGTGCGCACCTGGAGG
AKR1D1	AGAGATGGTCCGCCCAACCC	MOXD1	GACGATGTCGGCGGACGCCA
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AKR1D1	AGTGCATCCTTTAACAAAGG	MOXD1	CGACATCGTCGTGGGCGGGG
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AKR1D1	GAATGACAACCACCCCTCGC	MOXD1	ACTTGCCCTCCGAGTCCAGG
ALDH1A3	TTCCACGGCCCCGTTAGCGG	MOXD1	CTGGAGGTAGGGCCGCCCGT
ALDH1A3	GCAGCCGGACAGGAAGCCGC	MPHOSPH6	TGATGTGTCAGATGAAGAGA
ALDH1A3	GCGCCCCATCCGCAACCTGG	MPHOSPH6	TGGCGGCCGAGCGAAAGACA
ALDH1A3	GCACCAGCTGGCTGACCTGG	MPHOSPH6	CAAGAATCTACTGCGCATGA

ALDH1A3	AGGGTGGGCAGACAAAATCC	MPHOSPH6	ACAGTTTATGCAAAGGGGAC
ALDH1A3	GATGGCCCCACAGACACCAA	MPHOSPH6	GGACAACCTTGTCTTTCGCT
ALDH1A3	GTGTTCCACAGCAGAGGGC	MPHOSPH6	AGGATTTAATCCTGAGGTTG
ALDH1A3	CAGAGAGCCGAGATAAAGGG	MPHOSPH6	ACAGATATGAGACCTTGGTG
ALDH1A3	GAAGCGGGTGACGCTGGAGC	MPHOSPH6	AAGGCATCCATCTTAATCCT
ALDH1A3	GGTTGAAGAACACTCCCTGA	MPHOSPH6	TTTCCCAATTGTCCCCACCA
ALDH3B2	AAGCCGTCAGAAATCAGCCA	MPHOSPH6	GAAGATGTTCTTAAAGCCCC
ALDH3B2	CTTGCAGAGCTGCTTTGCCG	MPPED2	AGGCAAAGTTACCATAACGG
ALDH3B2	GCAGCTGCTAGAGCACAAAGT	MPPED2	GTAGTGCGTGAATGCCTGGG
ALDH3B2	GCAGCCTCTCCTGCATCTCG	MPPED2	ATATGACACTCCAAAACCG
ALDH3B2	GCTGCACAGGACGTAGTCAG	MPPED2	AAGCCCCATCCATTAAACCA
ALDH3B2	GAACGTGCAGAGCGTGGACG	MPPED2	TGGGGCTTTAACCTACCCAG
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ALOX15B	GCGGTGTCAGCTGGAACCAG	MPV17L	GGTGGAACCTTACCTGTACAA
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ALOX15B	GGTCCCAGGACCCAACACTG	MPV17L	ACGGCTCGCTCGTCTCGGCC
ALOX15B	GCAGTGGGGCAGCTGACGCA	MPV17L	AACTTGGCCAGCAGGGCGTG
ALOX15B	GGAGCAGGTGAATATCACCA	MPV17L	TCTGGCGCCAGTTGGCCTCG
ALOX15B	AAAGGCCTGGCAACATGCGA	MPV17L	GCGGTCTCGGCCTTCTATGT
ALOX15B	GGAAGGCTTACAACCCAGGT	MPV17L	TTTTCCAGCAGAGTGGTGA
ANO1	GAAGACAGAGAAGAAGACCG	MPV17L	TATGAGCATTCTCCAAGGAA
ANO1	GAAGCGCCGGCATATTCCAG	MRPS30	ATCGCGGGCAAAGATGGCGG
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ANO1	CAACAAACAAATGGAAGCAG	MRPS30	GAAGTACTGGTACCAGCGGT
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ANXA8L2	GCGGCAGGCGAGAATATTCG	MRPS30	AACGACCTGCCAAGACGTCG
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ANXA8L2	GATGGCCTGGTGAAAGCCT	MSL1	GCGGATGCAGCTGGTAAAGA
ANXA8L2	GGCGTTCTTGTAGTACCCGC	MSL1	TGGGATGTCTCGGAAAGCTC
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ANXA8L2	CCAAGAGAAGCAACACGCAG	MSL1	AGAAGGCTTTCTCCTTGGGA
ANXA9	GAAGTTCAAGAAGGTCCTGA	MSL1	AAATCCTTCAGACCTTTTGG
ANXA9	GAGCACTGGGCAAGAGCTGG	MTL5	GCACGCGTTCAACCCCGCGC
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ANXA9	GCACGTCCACAATGGCACTG	MTL5	ACGGAGCTCTTAAGCCCCGA
ANXA9	CCAACCGGAGCAGAGAGCAA	MTL5	GGTACGCTTCTTTGAAGACG
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APBB2	AAACGTGGCACTCAAAGCGC	MTSS1	GGTAGCGGTAATGTGAGCTG
APBB2	TATGACCTCATCCAACAAGG	MTSS1	GGTGGACAGAGGTGACCCGA
APBB2	GTCCTTCATGGGTGTTGGGA	MTSS1	GTAGTCTGGAAGGTGGACAG
APBB2	TAGGCTCGCACCAGAAAACG	MTSS1	GGAGGACCCACTACCGCCAG
APBB2	AGGGACATCGAGGTTACAT	MTSS1	GCAGCCTGGTGAGGAGATGG
APBB2	GCCACTGACTTACCTTGCAA	MTSS1	GAGGACACCATCCCTTCCCA
APBB2	TACCTTGCAAAGGGACATCG	MTSS1	AAGGAATGCAGCGCGCTCGG
APOC2	GACCTTCCTCACCAGGTGA	MTSS1	AAACCCACTTCAAGAACAGA
APOC2	GGACAAGAAACAGAGCTGGG	MUCL1	AGCAGTGGTAGAAGCAGCGG
APOC2	CACCAAATCCCAATACCAGG	MUCL1	AGGAGCAGCAGTGGTTGCAG
APOC2	GGAGAGAGATTCTTCACCT	MUCL1	ACGGGCAGAGACCAGAAAGA
APOC2	GTTTCTCATCTACAGCGGGC	MUCL1	TGGAATGTCTTTACGAGCAG
APOC2	CTTCTCGTACAGGTTCTGGG	MUCL1	GCAGCGGTGGTTGCAGTGGT
APOC2	GCAGGTATGTCTTCTCGTAC	MUCL1	CTAGCTGGATACGTGTCAGC
APOC2	CTAGGCATCTCATCTTGCTG	MUCL1	CAGGACTGCTAAGAACTTCA
APOC2	GCTGGGGCTGTTGGGTCCCC	MUCL1	AGCAGTGGTTTCAGCATCAG
APOC2	GCAGCCATGAGCACTTACAC	MUCL1	GCAGTTTTACCCAAATGGGT
AREG	AGCGACAGCACCACCGGCGC	MUCL1	TGGGTTGGGGATCTCCCGAA
AREG	GAAGCGTGAACCATTTTCTG	MX1	GGATATGCTACACACCGTGA
AREG	AGAAGGCATTTCACCTCACAG	MX1	GGAGACAATCAGCCTGGTGG
AREG	GAATATTTTCGGTGAACGGTG	MX1	GACTCACCAGAGAATAACAG
AREG	GAGGACGGTTCACCTACTAGA	MX1	AGAGCAGAACAAGAGAGAGA
AREG	GAGAGCCCCGCTGCTACCGC	MX1	GATCCGCCTCCACTTCCAGA
AREG	TCTGGGGACCACAGTGCTGA	MX1	GAAGGTCAGAGAGAAGGAGC
AREG	GTAGTCATAGTCGGCTCCCCG	MX1	GGAGATCTTTCAGCACCTGA
AREG	GAATCATCGACAATATAGCC	MX1	GCATCTCCATTAGTAATAG
AREG	AGCAGACATAAAGGCAGCTA	MX1	GGAGTCAATGAGGTCGATGC
ARHGAP39	GCACCAGCGAGAACCAGTGG	MX1	CATGCTGAGAGCCTCTGTGG
ARHGAP39	GCCCGACACTGAGAAAGCGC	MX2	GCAGACGATCAACTTGGTGG

ARHGAP39	GGGACAGTGAAGGAGGACAG	MX2	GCTGAGCATGGCCCATGAGG
ARHGAP39	GCAGGACCTCCTCGCTGCGG	MX2	GGCACTGTGCCGAATGGCGG
ARHGAP39	GGGGTTTCATAGCCATAGCGC	MX2	GGAGGAAACATCATTGTGG
ARHGAP39	AAGTACGCGCCCAACCCCGG	MX2	GTCATGGCCGGGAATGGCCG
ARHGAP39	AGGAGTACGAACCACCGCCG	MX2	CAGGTCTGGAACCTCAGGGG
ARHGAP39	GCTCCACAAGCAGGTCCCCG	MX2	AAACAGGCTGAGCTTGGCAG
ARHGAP39	CCCACTTCCACATGAAGCAG	MX2	GAGCCACCAGAAGGCGACCG
ARHGAP39	GGCTCTGGCTACGAGAGCGA	MX2	TAGCATGCTCCAGAAAGCCA
ATP13A4	GCAGAGGCTTACCCAGGTGG	MX2	ACAAGCCTTGCCCTACCGG
ATP13A4	TATGTGACTCGACGAGATGG	MXRA5	GGAGAAATAGCAGGAAAAGG
ATP13A4	GATTGAAGGCAGCTGTGTGG	MXRA5	GGAGTCATTAACCCAGATGG
ATP13A4	AAGGCACAGGAGGAACCTGA	MXRA5	GCATCACGGGCACCTCCCCG
ATP13A4	AGAGCAGCAGGTAGAGCCGG	MXRA5	GCAGGATCAGCACCCACGGAG
ATP13A4	GCATTATCTATGCCAGAGG	MXRA5	GAGATCCCAAGCATCCCCGA
ATP13A4	GGGAGTGCCGGCACATGCCA	MXRA5	GAATGGGATGCAAAATCCAG
ATP13A4	AGATGCTGATGAGGACCCGG	MXRA5	AGGGGCAGACCATTTTACGG
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ATP13A4	AAAATCACAGAGAGTAGCAG	MXRA5	GAGTGTTTGAATCTAGACGA
ATP6V0A4	GCACTGCTTTCAACTCCAGG	MXRA5	GTGACTTCTAGACTCAAGGA
ATP6V0A4	AGGACTTCTGCAGATACCCA	MYB	AGAAATACGGTCCGAAACGT
ATP6V0A4	TTACTGTGGCGAATCTGCCG	MYB	GAAAACAATGTAGGGAGAGG
ATP6V0A4	CCCTTGCCCAGAGCCTGCGG	MYB	GACGCATTGTAGAATTCCAG
ATP6V0A4	GGAGAGCGTCAATGTGAGGC	MYB	GGAATAGTCGTTGTTAACAG
ATP6V0A4	CCAGGAGTGCCAGTTGGCAG	MYB	GAACCTTACTAGCATCTTCAG
ATP6V0A4	GAGGGCACTGGAGCAAGGCA	MYB	GCTCCCCGTTACCTGTGCCG
ATP6V0A4	GTAGGATCAGATAGCGCCCG	MYB	GAAGCAGCCCATCATAGTCA
ATP6V0A4	GGATTTCCAAAATACACTCC	MYB	GGGGAAAACAAGGTGGACCC
ATP6V0A4	ATGGTCGTCCAGAGCCCCGT	MYB	GCAGGGAGTTGAGCTGTAGG
ATP7B	GAGCACACAGACACAGAGG	MYB	GATTGACCTTTTGATAGCTG
ATP7B	AGACAGATCACAGCCAGAGA	MYCN	GGGAAAGGGGAAGACCACGG
ATP7B	GCTGGTTCCAGGCACGGGT	MYCN	GAGAAGCTGCAGCACGGCCG
ATP7B	CGATGGCACATATTTACAG	MYCN	GGACTGGGCGGTGGAACCGG
ATP7B	GCTCCCTGCAAACCATGCCC	MYCN	CGAGTGCGTGGATCCCCGCCG
ATP7B	GCAGTCATGGAGGACTACGC	MYCN	GGGTATTGCCGCCCCAGCCG
ATP7B	GTTGTGGACACAGGACGCGC	MYCN	GCTCAGGGTGTCTCTCCGG
ATP7B	GCTGGTGGAAGGGCAACGG	MYCN	GACGTGGAGCAGCTCGGCAT
ATP7B	GAGAGACATGAGTTTAGCCA	MYCN	GCAGATCATGCCCCGCATGG
ATP7B	GCGGGGCGATATCGTCAAGG	MYCN	GCTGTAGCGAGTCAAACCTCG
BAIAP2	GGTGGAGAAGCAGTGCGCCG	MYCN	GTCTTGAGGATGACCGGGT
BAIAP2	CATGGGGAAGAATTACGAGA	MYEF2	GGAATGAATAGAAATTGGAGG
BAIAP2	GAGCTGGCCAGCGAGAGCCA	MYEF2	GGCGGACGCCAACAAGGCCG
BAIAP2	TACGCAGCTGGAGCAGAAGG	MYEF2	GCTGCTTCTCCGCCTCCGCG
BAIAP2	CAGGCGCTTCTGCTTCCTGG	MYEF2	GACAAAGATGGCAAGAGCAG
BAIAP2	GGTGCAGCTCATGCAGCAGG	MYEF2	TTGGAGCTGCTGCTGTGCTG

BAIAP2	ATGGCGAGGACTACAGCCCG	MYEF2	AGGGCATTGCAGCGAACAGG
BAIAP2	AGCTTGCTCTGAGACTGCGG	MYEF2	GCATAGCTGGAAGTGTGAAG
BAIAP2	GCTGTTGTCCCCAGCAGCGT	MYEF2	TGGTCTTGGAGGCATTGGGA
BAIAP2	CCATGGCGATGAAGTTCGGG	MYEF2	GGGATGGGACTTGGTCCGGG
BAMBI	GATGTTCTCTCTCCTCCAG	MYEF2	ATGGGAAATTTAGGTCCAGG
BAMBI	GCAGCTGGAGCTCTGCGCCA	NBPF4	CCCGCATGCTGAGAGCGCAG
BAMBI	TTTGGTGAGCAGCACGGCCA	NBPF4	CTTGACCTCTGACTGGTGG
BAMBI	CAAGAGAGTCCAGGCAGCCA	NBPF4	GCAAGTTTCACAGGCACAGC
BAMBI	GAAGACATGTGCAATTACAG	NBPF4	ATACTGCTGGAAGGACGCAA
BAMBI	CCTGAGGCCCTCACCCCTGGG	NBPF4	GGGCCAAGCCGTTCCACAG
BAMBI	TATAACCAGTGGCTACACAG	NBPF4	TGAGAAGCTGCAGGTGGTGG
BAMBI	TCAAATTCCCCACTCACCCA	NBPF4	TGGTGGAGGAAAGGCCCCGC
BAMBI	GCATTCCAATGTGGGTATGG	NBPF4	GACACGTCATGGTGAAGTGA
BAMBI	GGTTTCGGGCCTGTTTGGCT	NBPF4	GGTGGCAGTCAGACACGTCA
BCAM	ACTGCGAGCAACAGCAGCCG	NBPF4	CAGCAGGGGACCGCTGAGAG
BCAM	AGAGCCCTGCATCTCAGCCG	NCAM2	CCAGCAGGTAGAAGGAGAGG
BCAM	GGTGAGGGAGAGCAGGCCCG	NCAM2	GAAGCTGCAAGCAGAATTGG
BCAM	GCAGGGTGAGGTGGAAGGTG	NCAM2	GTTGAAGGAAAACCTTGCCG
BCAM	GGAGCACGTGCAGTTCTGGG	NCAM2	ATACATGGACAGCCAAGCAG
BCAM	CCAGCAGGCTGGGTACGCGA	NCAM2	AGCATCACCAAACAGGACGA
BCAM	GAAAAGCGTATACTCCGGGC	NCAM2	GGAGATGCTCCAAAATGATG
BCAM	ACCCTGGAGGGAGTGACCCG	NCAM2	AGGGTAGTAGTGCAAAAGGA
BCAM	GCAGATGGCAGCTGGAGGGA	NCAM2	AACCTACCTGAACCAGGAGA
BCAM	GTTTGGGGTCTGGATGGCCG	NCAM2	GGAAAGAAAAGTGGCTCCAG
BCAS1	TGAGAGCTGGACACTTCCGG	NCAM2	CAGATGTGAAGGAAGAGTGG
BCAS1	GTGCACAGAGCAGGCCACGG	NCKAP5	GTTGCCCAAAGAACAAGTGA
BCAS1	AGGACACAGATAAAACCCCA	NCKAP5	GCAGGCAGAGAATTCAGCGT
BCAS1	GAGAAGCGTGGGATCCCTGG	NCKAP5	ACAGTCACGAACTGATGCTG
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BCAS1	GACAACCCCTGAACCTGCGA	NCKAP5	CCAGTGGCTCCTCCTACACG
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BCAS1	AGAATCAGCCTTACAAACAG	NCKAP5	ATGCCAGCCAGACTCCCCAG
BCAS1	CAAACAGTGGACCTCAACGA	NCKAP5	GCAGAAAGGGCTGACTGGAG
BCAS1	ACAGTTCAGCACTTAGAGGA	NCKAP5	GAAGTGCCTTCTCCACAGA
BEX1	TTCACCAGCATCCAAAGGGA	NCKAP5	CTTCAGGGAGAAGTTGGCAG
BEX1	GCATAGGCTTGGAGAACCAC	NEBL	AGTGAGGAAGAACACCCAGG
BEX1	GTGTGCCTAGAGGAAATCGT	NEBL	GAGAGGCTTTACTCCCGTCG
BEX1	TCATATCCCATCTATACTGC	NEBL	TGTCACAGGATCGTCCACGA
BEX1	GCAGTTGAGTCATAGTCTGC	NEBL	TATCAGCAAAGCCATTCCCA
BEX1	TGGGATATGATGCATAGGCT	NEBL	AGGGGTCCACCCTCACATCG
BEX1	GGAGCCCTTGGCCCTCCCTT	NEBL	GGTGCATGTAGCCATAGCCT
BEX1	CATCATGATGGTCATGGTGA	NEBL	TGTCCATCTCCACGATGTGA
BEX1	GGTGAATACTGTGTGCC TAG	NEBL	TGATCTCATGGATGACACAC
BEX1	TCTTCTCTCATCCTTGCCTG	NEBL	CAGCGATGCTGCCTATAAAG

BGN	GAACCACCCGCAGGTGGCAG	NEBL	AGGAGACCTGGAATCATTGT
BGN	GTGGATGCGGAGCTCCACCA	NET1	GCAATATATGAAATGTCCCG
BGN	GCTTGGCCTCTGAGATGCGC	NET1	AAGGACGTGACACGAGCCAG
BGN	TGTCCAAGTGGAGCTCCCGG	NET1	AGTACCTGGATGAAAAGCAG
BGN	GGACAACAACAAGTTGGCCA	NET1	GGGATCTGTGGTCACCACGA
BGN	TCAGGGCCAGCAGAGACACG	NET1	AGAGAAGGAGCAGTGCACTG
BGN	AGGCTTCTGGGACTTCACCC	NET1	CAGGGAGATCAGACGGCAGG
BGN	CATCTCCAAGAACCACCTGG	NET1	GAGACTCGAGACATCGCTGG
BGN	TGGGCGGGATCTCCACCAGG	NET1	AAACTTCTGGGCAGAGGCTG
BGN	CAACCTACCCAGCTCCCTGG	NET1	GATGCTGGACATCACCATGA
BNIPL	GAGAAGATGGACATCACTGG	NET1	GAAGGAGTCTCTCACCA
BNIPL	TGACGTATCCAGCTTAGAGG	NIPAL1	AGAACACTCAAAGCACCCAG
BNIPL	GTCAGAACTGCCATCAGGAG	NIPAL1	TCTCGGCAGGGCTCTCCGGG
BNIPL	GACTCGGAGCAGCTGGACAG	NIPAL1	GATCTCACACCAAGCCTGGG
BNIPL	GGACATGAATTTGAATGGGA	NIPAL1	GACATTCTTACCTGAAGGAA
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BNIPL	GGGTGTTCCGAATGGGACCA	NIPAL1	TATCCATGCCCCACAAGAAG
BNIPL	CAGCATTGAGGCCATCACCG	NIPAL1	GATGTGACTTCCTCTTCTTG
BNIPL	ACAGCTGAAAGGCTGGGCCG	NIPAL1	ACCCAGAGGGGTGACCAAGG
BNIPL	GTCTTTCTGCCCCAGAGTTG	NIPAL1	AGACACAAACCTTCTCGGCA
C10orf113	TGTACATTCCAGACATGAAC	NIPAL1	AAAGAAGGGCCTCTTGCAAC
C10orf113	GGAGAGCCGAGAAGGGCCTG	NOS1AP	TCTGCAGGTACACTTGCTGA
C10orf113	GGACCAGAAGGTATAACCAA	NOS1AP	GGTCAAGCAGGTGCAAGAGC
C10orf113	GCTGGCCAAACGCTTGCCAGG	NOS1AP	GAAGGACCAGTTGGCTGCTG
C10orf113	GGGGTACCAGGCTTGAAGAA	NOS1AP	AAGCTGATGCACGCGAGCCT
C10orf113	GCAACTGGGCCAAGTCCCCA	NOS1AP	TGACCAGCAGGGAGATGTGC
C10orf113	TCTGGTCCCAGAGACAGCCT	NOS1AP	TCAGCTTTTGCTGCAGAACA
C10orf113	TCCCCAACCAAGCTTCCTGGG	NOS1AP	CAGAGGCAGGAAGTGGGCGA
C10orf113	ACAGCTGCACTTTATCCCAT	NOS1AP	TGATGAGCTCCAGACCGCCC
C10orf113	CCTGAGGCCTCCCAGGAAGC	NOS1AP	TGGGGTCACAGAGCACGGGC
C19orf33	TCAGGGCCGGTCGGAGGCAG	NOS1AP	TCAGCCAAGCCCGCGCCAG
C19orf33	GCTGGAGCTGCTGCTGGAGT	NPAS3	GAGATGCTGCTCGCTCCCGC
C19orf33	CACACCGGGCTTCTGGGAGG	NPAS3	TGAGGGACTTTGCTAACCAG
C19orf33	GTCCCCACAAAGTTCAGGGC	NPAS3	AAGTTATAGGTGCACAGCGA
C19orf33	TGCTGGAGTCGGAAGAGCTG	NPAS3	TCCATTCGCAAGTTCCACGG
C19orf33	CGATTCGGACACGGATGTGA	NPAS3	TCTCCACGTGATCTCCGGGG
C19orf33	ATGGAGTTTCGACCTGGGAGC	NPAS3	TGACAGGAGACCCCGCCAG
C19orf33	CCAGGAGCTCACCTGCTCCC	NPAS3	CGCTGGATGCAGAAAGAACGG
C19orf33	TCGGAGGCAGGGGCAGGTCC	NPAS3	TGAGTACAAGGACACACCCA
C19orf33	AGGCGACTTACCTTTGGACC	NPAS3	ACGCTCAAGAGTGTTGTGAC
C1orf116	GATCAGGCCAGAATCTCCAG	NPAS3	GCTGGGGACGGTCCTCCCGT
C1orf116	AAGAAGCTCTAGAGAAGCTG	NPB	CGCGTGGTACAAGCCAGCGG
C1orf116	AGATCTTGACACTGACACAG	NPB	GTGCAGTTGCAGCTCCGGGG
C1orf116	GGGTCCTCCCCTGATGAGAG	NPB	CAGCAGGCACAGCGCCAGGG

C1orf116	TGGCGGGACAGCCAGTGCTG	NPB	GGGGCACAGCTCCTACTCGG
C1orf116	GGCTGAGCCAGACCTGGAGC	NPB	GGCGCTCCCAGCCCTACAGA
C1orf116	ATAGCTGCTGAGGCCTGGGC	NPB	TCCGCAGGTCCCCGTACCG
C1orf116	GCTGGAGACTTCATTGGCAA	NPB	TCACGAGGCTCCGCAGCCTG
C1orf116	TGAGGCAACCCTGCAGGAGG	NPB	CAGTGTGCGGGACCGGGCCA
C1orf116	CAGGGGCAGCCTCAGTGTGG	NPB	ACGTCGCCCCAAACCTGCAG
C1orf21	AGTGGCAACATGCTTGCGCG	NPB	GGAGCCGCTCGCACCTCTGC
C1orf21	TGAGTATAGGATCAAACCAG	NRIP3	GCAGCGCCGGATGAAGCAGG
C1orf21	TGCCACTGTTCAAAATGAAG	NRIP3	GGAGACCGACATGCGGGAGG
C1orf21	ATGAAGAGGAAGCCCAGAAA	NRIP3	GGGGCTAAAGAAGTCTGAGG
C1orf21	AAGAGCAGAAAATAGCAGCC	NRIP3	CTGCTGGGCAGTCCAGGCGG
C1orf21	CAGAACGGAGATGTGTTTGG	NRIP3	GTCCAGGGGCAGCAGGTCGG
C1orf21	TTTGGCACTCAGATGAGTAT	NRIP3	TTAGAGGCCCAAGGGACACG
C1orf21	CTGGGTTGATGAACTAATCC	NRIP3	TGAGCACCTAGTGATCACAC
C1orf21	GGATTACTGTTCGGAAGAAG	NRIP3	TCAGGGCTCCTCACTGAGGG
C1orf21	AGCCAGGAACCAAGAAAACT	NRIP3	AACCTGTCTAAGCTCCGAAG
C3orf52	AATGACACCTAGGAAAATGG	NRIP3	GTGAAAGCCTTGTTGACAC
C3orf52	GGACCTCCTCGTCCAAAGAA	NUDT8	GCAGAGCGGCACGAGCACCG
C3orf52	AGGGGACCTTACCTCGGCCG	NUDT8	TCCCCAGCAAAAGGCCACCG
C3orf52	GAAGAGAACACGCCTCTCAA	NUDT8	AGCAAGCACTGGCACCACGG
C3orf52	GAGCTCCTGTAATAAGAATG	NUDT8	GGGCCTACACCAGCAAGCAC
C3orf52	TGGTTGGAAGATGCAAACCTG	NUDT8	GAGCCTCAGGCCCAACTCGG
C3orf52	CATCATGCTGAAGATTCCAG	NUDT8	GCAGCGTGTACAGCAGCGCC
C3orf52	CGTCTACTGGCTGTGAGGGT	NUDT8	GCTCCTCCCGGGTTTCCCGC
C3orf52	TGATCACTGTAATGACACCT	NUDT8	AGTGCCCGAGGAGCACGTGT
C3orf52	GCCTCTCAATGGTGCCGACA	NUDT8	ACCCACGCACTGAGCAGAG
C6orf141	GCAGGGGCGAGCCGAAGCCA	NUDT8	TGTCTGTTTAGTTTCCCAGG
C6orf141	GAGGTGGTTAGGGACTCGAG	OAS2	TCAGACACTGATCGACGAGA
C6orf141	GGACCCTGCACGGGAAGAGG	OAS2	ATGGCCACTCCCTGCACCAG
C6orf141	GAGGACCTTCCTCATGCGGG	OAS2	GAAGAGGACAAGGGTACCAT
C6orf141	GGGTGGAGAGGACCACGGCG	OAS2	TGACATCCTCGATAAAACTG
C6orf141	GCAGTAGAGAGGGACAGCCT	OAS2	CAGCTTCTGAGCAGGCACCG
C6orf141	GGACAGCCTGGGGAACGCTG	OAS2	GGAAGTGTTCGGGTTCCTGC
C6orf141	TTTGCCAGGATGGAGACCCG	OAS2	GGACGGAAAAACAGTCTTAAG
C6orf141	TCAGGGAGCTGCGAATCCCA	OAS2	GAGATCCAGAAGTCCCTTGA
C6orf141	GGGACCTCGGGCCTTTTCCG	OAS2	GAAGCTGGGTGGTTTATCC
C6orf211	CAAGATGGTTCTACTACCCG	OAS2	CTGGATGGTGAACCCATCAA
C6orf211	GTCTCTCTCAGGACAGGACG	OBP2B	GAATTCTGATACCAACCGGG
C6orf211	GAAAGTGATGGCTGTCGTCC	OBP2B	CAGGAAGCTCATGTACCTGC
C6orf211	TATAAGTCAGGTGCAACCTG	OBP2B	AAGAAATTGGTGCAGCGCAA
C6orf211	GTTGGTCTGCAGCCTGGGCA	OBP2B	ACTGCAAAGACCAGCACCAT
C6orf211	GGTCCACCAGCTGGGCTCAG	OBP2B	CCTGCAGGAGCTGCCCAGGA
C6orf211	GCTCCTAAATCAAGTCAAAG	OBP2B	GCTCCACATGGGAAAAGCTTG
C6orf211	TGTGATCTGTCTCTCTCAGG	OBP2B	AAGATGTAGTGGTCCCTCCT

C6orf211	GTCTCTGAACTGGCTACTG	OBP2B	GCAGCGCAAGGGACTCTCGG
C6orf211	AGGAGCTGTTCCCCTTGCCC	OBP2B	CCATCCTCACCCGTCTGCAG
C9orf85	GAGCTCCAGAAAAGGCAACG	OBP2B	CTTCCAACCTCCCACCGCCC
C9orf85	CGATAAAAGTGTGCAGACCA	ORM1	GTGAACGATGAGAAGAACTG
C9orf85	ACTTCAAGTTCACAGGCACA	ORM1	CCACCTACCTGAATGTCCAG
C9orf85	TCGGCGATGAGCTCCCAGAA	ORM1	AGGTGGTGTTATAGATGCAC
C9orf85	AACGTATTCTGGTGCTTCTG	ORM1	AGATGGTCCCATTTTCCCGC
C9orf85	ATTCTGGTGCTTCTGAGGTC	ORM1	TGTAGGTCTTGGTGTCCTG
C9orf85	TGCGCAAACTTCAAGTTCAC	ORM1	AAAAGCAAGCATGTAGGTCT
C9orf85	GCTGTAAAGAAGTTCCTGAG	ORM1	GGTGTACACGACATCTGACT
C9orf85	CTTGAAGTTTGCGCAAAATG	ORM1	GCAAGTGAGCGAAATGCTCT
C9orf85	TCTGCAGCTTCTTCTATGGT	ORM1	CTTCACCCCCAACAAGACAG
CA12	GAAAACTGTCCAGAGCACAG	ORM1	AAATGCTCTTGGCCTCCCAC
CA12	GATGCCAAGAATGCCAGCCA	ORM2	CCAGTTACCTGAATGTCCAG
CA12	GGGAACCCGAATGACCCGCA	ORM2	AACTGGAGTTATAGAAGCAC
CA12	GAGCACAGTGGGGTTGCAAG	ORM2	CTGGACGATGAGAAGAACTG
CA12	AATGATCAACAACCTCCGGC	ORM2	GGTGTACATGACATCTGACC
CA12	TCTTGGCATCTGTATTGTGG	ORM2	AGACGGTCCCATTCTCCCGC
CA12	AGGAGCCCGCGAAGATGCCC	ORM2	CAGGTAGGAACCAAACATCA
CA12	GGAAACTTTACCGTTCACTG	ORM2	TGGTGTCCCTAAGGAACAGC
CA12	TGAGGCTGGCGTCATACTGG	ORM2	TCGACTGCTTGTGCATTCCC
CA12	GCCCTGGATGTGCATGTCCG	ORM2	CTTTACCCCCAACAAGACAG
CA8	GATGAAGCTCAGGTCCGCCA	ORM2	GCAGGTGAGCAACATGTTCT
CA8	CGAGAAGGAAGAGGATGAGG	P2RY1	CGAGGAGGAGAGAATGACCG
CA8	AGGCGGACATCCAACAGCGA	P2RY1	GCCGGCTGTCCCCAACGGGA
CA8	GCTGTGCAGACCCTCTGCTG	P2RY1	ACACCACACCGCTGTACCGG
CA8	TGGGGAAGAGAAAACCAGCG	P2RY1	GCTGGTGTGGCTCATTGTGG
CA8	CAAACAGAGTGGAGTTCCAG	P2RY1	GGTGGTGTGTAACAGGTGA
CA8	GTGACACCTTCACTGCAAGG	P2RY1	GGGGACACAGAACATGGCCA
CA8	GAAGAGGAGGGTGTGGAGTG	P2RY1	ATTGAAAGCACACATTGCTG
CA8	CCGTGTGCTCAGAACCACGC	P2RY1	TTTGAACGACGAGGAGACGG
CA8	GCAATGATGGCGATTCCGTG	P2RY1	GTGGAAGACGAACATCCAGA
CACNB3	GCAGCAGCTCGAAAGGGCCA	P2RY1	ATGCCATGTGTAAACTGCAG
CACNB3	GCAATGACTGGTGGATCGGG	PABPC1L	AAGGTGATGAGGGACAACAG
CACNB3	GAGATGGCGGAGGGGAGCGT	PABPC1L	CAGATCGCCCACGTAAAGCG
CACNB3	AGGCTACCTAGAGATGGCGG	PABPC1L	GATGGACAGGATGGGGCCGG
CACNB3	GCACCTGGCTGAGTACCTGG	PABPC1L	AGAGAGGATGTTCCCCAAGG
CACNB3	GAGACGTCTGAGTCCAGAGA	PABPC1L	GGCAGAATGAACTGAAGCGC
CACNB3	GCGGCTAGTGAAAGAGGGCG	PABPC1L	GCTGCTGAAAGGAGCCCAGG
CACNB3	GAGCACAGATCGCTTTGCCA	PABPC1L	GGCAGGCAGGAAGTAGCTGG
CACNB3	ACAGCTGGCCAAGACCTCGC	PABPC1L	GACACTGCTGATGTGGGCCG
CACNB3	CAGCTGACTTACCTTTGGTG	PABPC1L	GGGCTGCTGGAAGTTGATGT
CALCA	GGAGAGCAGCCCAGCAGACC	PABPC1L	ATGGACAAAGCCGAAACCCC
CALCA	AGACCCGGCCACGCTCAGTG	PALLD	GGATGGCCTGAGGGAGACCG

CALCA	GGACGAAGCGCGCCTCCTGC	PALLD	GAGCTTCTCAATAAACACAG
CALCA	ATCTTGGTCCTGTTGCAGGC	PALLD	TGAGCAGGCAGATGTAGCCG
CALCA	GGAGGCTGCCTGCCTGCAAC	PALLD	GGAGCCACAAAAGAAGATGC
CALCA	CGCTTCGTCCTCACTGAGCG	PALLD	AAGGAGGACCTCCTGAACAA
CALCA	GCATGCTAACATGAGGGCGA	PALLD	CAGGCTAGAAAGGTCTCCTG
CALCA	CATGCTGGGCACATACACGC	PALLD	GGAGATCTGACTGTTCAAGA
CALCA	GGAGTTTAGTTGGCATTCTG	PALLD	GCCTTGAATTTCCCTCATCGG
CALCA	TGGACAGCCCCAGATCTAAG	PALLD	ACGAAAACCTTCGTTCAAGG
CALCRL	TAACACCCACGAGAAAGTGA	PALLD	GTACAGGCTGTCAACCAAAG
CALCRL	GATTTGTGGCTACTAAGGCC	PAPSS2	CAAGTGGTTGGAACAAGGGG
CALCRL	CCTACACACACTCATTGTGG	PAPSS2	TAGCCACCTCAGCAATCCGG
CALCRL	AAGCAGCACAAATTGGGCCA	PAPSS2	GGGGATCAAGAAGCAAAAGA
CALCRL	AGAATTAGAAGAGAGTCCTG	PAPSS2	ACAGAGAGGAAAATATCCGC
CALCRL	GACCCCATTTCAACAAGCAGA	PAPSS2	GCAGAAGTTCCACTACCTGG
CALCRL	AATCATTCACCTCACTGCAG	PAPSS2	ATGTGAGCAGGAATAAGAGA
CALCRL	ACCTGAAGGAAAGATTGCAG	PAPSS2	GGAGTAACAAGGGATGGCAT
CALCRL	TGTATACAAGCAGGAATCAG	PAPSS2	TGGGTCCAGGTTTTGAGCGA
CALCRL	GTGGGTGTTAACATTACACT	PAPSS2	TGATGCAGGACACTCGCCGC
CALML3	CCTGGGCCAGAACCCACGG	PAPSS2	CTGGCGGATGAAGCAGCACG
CALML3	GCAGGTCACAGAATTCAAGG	PARD6B	GAACCGCAGCCACCGGCACG
CALML3	GAAGGACACGGACAACGAGG	PARD6B	GTAGGCTATGCAGACATCCA
CALML3	GGAGAAGCTGAGTGACGAGG	PARD6B	CGGCTGCCTGGGCACTATGG
CALML3	GTCCTTGTCGAACACGCGGA	PARD6B	GCCTACCAAAACGTCAACAT
CALML3	GGACGAGATGATCCGGGCCG	PARD6B	AGTTTGGAGCTGAATTTCTG
CALML3	GCCGCGGACACGGACGGAGA	PARD6B	TCGCTGGAAAGATCAAAACC
CALML3	CTGTTTGACAAGGATGGGGA	PARD6B	CACTATGGAGGTGAAGAGCA
CALML3	GCATGACCGTGCCAGCTCG	PARD6B	GTTGTCAGGACGCAATACGT
CALML3	ATGAGTGAGATCGACCGGGA	PARD6B	GGAGGTCTGGCTCAAAGTAC
CAMK2N1	GTAGGGCAGCACCTCCGACA	PARD6B	CAGTGAGACCGGCAAACCAG
CAMK2N1	AAGCTGAGCCCCTACGGCGA	PATZ1	GAGCCGGACCAGGAAGCAGG
CAMK2N1	TCGGCGCCGGGCAGAACAAG	PATZ1	GTTGGGCGACGGCGGAGCTG
CAMK2N1	GCAGGCGGCAGGAGAAGATC	PATZ1	AAAGAGCATTATATCGGCGC
CAMK2N1	GTTGGTGTCTGCAGGCGGC	PATZ1	GCCTTGGCAGCCAACAGCAA
CAMK2N1	CAGATCGGCCGGAGCAAGCG	PATZ1	GTAACACAGGCAAAGAGGCT
CAMK2N1	GCTCAGCTTCTCGTCGCCGT	PATZ1	GGGCACTGGATGCCACACTG
CAMK2N1	GAACAAGCGGCCGCCAAGC	PATZ1	CTGACTGGCAAGCGAGGCCG
CAMK2N1	CCCGGACGCGACCATGTCCG	PATZ1	CAACCGGCTCCGGCAGCACG
CAMK2N1	ACCAACAACCTTCTTCGGCGC	PATZ1	GCAGATGTAAGGCTTGCCCA
CANT1	GGTGGGAGCAGAGCAGCCAG	PATZ1	GGGTACCAGGATCTGTACGT
CANT1	CAGTGGGGACAAGGTGGCCG	PBX1	GCAAGTGCTGGGACAGGCCG
CANT1	GGACAGAATCACCCAGGGCA	PBX1	GATGGGGCCGGAGGGACCGA
CANT1	GCACTCCCTCCGGATCAGTG	PBX1	TATCCGAGGAGCCCAGGAGG
CANT1	GGAATGGGACAAAGACCATG	PBX1	GTGGCGGGGCTGAGAAGGG
CANT1	GGTGGGACTCCAGGACCCCA	PBX1	GGAGCTGGAGAAATACGAGC

CANT1	GGGGTCGTCTACCAGATCGA	PBX1	GGATGGAGCTGAACTTGCGG
CANT1	GGTGAACGAGAACCCGGAGT	PBX1	TCTGGCTGATAACATGGCGA
CANT1	GGTGGGCTACAAGGGCAGCG	PBX1	GCATGGGAATGCATCAGCCT
CANT1	GGGTGCTCAGACAGCTGCAC	PBX1	GCTGTTAGCGGAAGGCGTGG
CAPN6	GCAACCACCAGCTGACCCAA	PBX1	TCGCAGGAGATTTCATCACGT
CAPN6	GACCAGATCTCCGTTAATGG	PCDH18	ACAGGATTTATGAGGAACAG
CAPN6	GAAATACCAGGAACTGAAGC	PCDH18	GATAATGGGGAAAATCAGCAT
CAPN6	GAGACTGGGGCACAAGCCAA	PCDH18	GAAAAGCTGCAGATGCTCTG
CAPN6	GGTTCGCCTGAGAAACCCCT	PCDH18	GGATCAAATGCACTGTCCAG
CAPN6	GACAGGAATGGAGTGGCCCC	PCDH18	CAGAGAGCGAGTATGTGTGG
CAPN6	GCAACTCACATTTCACTCCA	PCDH18	AAGATTGCTGCTCAAAAGCA
CAPN6	GGTGTTGGGATGCTGGACTG	PCDH18	TAAGAGCAAAGTGCCAACCG
CAPN6	TGTGCGGGTGTCAATATAGG	PCDH18	AATGCCACGGATCCAGATGA
CAPN6	TAATGTTGCCCACAATCAGA	PCDH18	ACAGTGGTGATATATGCCCC
CAPN8	GCAGTACGGAGAGTGGGTGG	PCDH18	AGGATCTGTGGCTGTAACAG
CAPN8	TCAGCTTCTCTGGATGGCCC	PCDH7	GAGCTGCTCCAGGAGCCCGG
CAPN8	CAGCTGGTGTATCTAGGCAG	PCDH7	GCACCGGATCGACCGCGAGG
CAPN8	GGACTCTCTGAGTAGCGAGG	PCDH7	CAAGCCAGCCAGCGACACCG
CAPN8	GATGAGGACAGCCCTCAGGA	PCDH7	TGAGCGAGAGCGGCAGGAGG
CAPN8	GCCAGGATTTCAGACCCCTG	PCDH7	GCAGCTCCTCCGGTACCGGC
CAPN8	ACCAACGATAAACTGAGGGC	PCDH7	AGGTCCACCCAGCTCTGCGA
CAPN8	GACACTGTGCAGGTGACTGC	PCDH7	GCCCCGTGCTCACGCTCACGG
CAPN8	CTGGAGGTTCCACAGTGGAG	PCDH7	GGTGGAGGAGAATCGGCCCGG
CAPN8	CCAGCAGAGACCCCGCACAG	PCDH7	GCTCGGGAGGCTCCAAGCGG
CAPS	GGCCACTGTACACCCCGCGG	PCDH7	GCGGCGGCTGGACGCATCAG
CAPS	GCTGGTGCTGGACCAGGCGG	PCDHGA5	GATCCGCTACTCGATGCCGG
CAPS	CAGACCAAGCATGGACGCCG	PCDHGA5	GATGTGGTAAGCGGAACTGA
CAPS	CGGGCACAGTGCCTGTCCCG	PCDHGA5	GCTGCTCATGCTAACCGCCA
CAPS	AAGTGGGACCGCAATGGCAG	PCDHGA5	TGTGACCACCACCTTAGCGC
CAPS	TGGGGACGGCGTCGTGACGG	PCDHGA5	GGTGACCAAGGTGGTAGCGG
CAPS	GTGACGGTGGACGACCTCCG	PCDHGA5	GCAATGGCGAGTCCACCTAG
CAPS	CAGTGCCCGTGCCACCCCA	PCDHGA5	GAAGTGGTAGCTCAGGATGG
CAPS	GGACGCCGTGGATGCCACCA	PCDHGA5	GATGTGGCTTTCTGTAGAGA
CAPS	GACGCTGATGAGTTCCGGCA	PCDHGA5	GAGGCTTGAGGGAAAATTGGG
CASC3	GCTTCGGGCTCCGACAGCGG	PCDHGA5	GAGGTGGAGTAGGAGGCTTG
CASC3	AGAGCCTGTGGAGAACAAAG	PCDHGB2	GTACAGGGTCACCCTGAGGG
CASC3	GAAGCTGGTGGGCAGCATGG	PCDHGB2	GGGGAACAAAGACAACAGGA
CASC3	GCATCAGGAGCAGCAGCTGG	PCDHGB2	GATCCGCTATTCAATTCCAG
CASC3	GGAATCAGTCCTTCAGGAGG	PCDHGB2	GGTCGTAGGAAACCTCGCCA
CASC3	GGGGTGGTTCCTGGGACTGG	PCDHGB2	TCGAAATCCAGAACACACAG
CASC3	TGGGACCTGGGAAGCTCCGG	PCDHGB2	TGGGTCGTGCCACTTTGAGG
CASC3	GCGGGGCAGGGCTGTCACCA	PCDHGB2	AGTATCTACTCCCCTACCGG
CASC3	GCAGAGGAGCTGGTGTCTGG	PCDHGB2	AAGGCGATCACTGTTCTGG
CASC3	GGAGCAAGCAACTGCTGAGG	PCDHGB2	TGAGCGATAGAGGCGCCAGG

CCDC74A	GGGAAAGCTAGCTTCCTCCG	PCDHGB2	ACGTAGGATAAAAATCTCCCG
CCDC74A	GACAGACTGGAAGCTTGACA	PCSK1N	GAGACGCTGCGCTTAGGCCG
CCDC74A	GCTGCTGCTGCAGGAAGTGC	PCSK1N	GCGCCAGTCTCAGCCAAGGG
CCDC74A	GCTTCCTCCGGGGCTGCCTG	PCSK1N	GGGGCACTGACCGCCGGAAG
CCDC74A	ACAGGCAGCTCCTGCATTAG	PCSK1N	CGAGGGCGGCAGGGTCAAGG
CCDC74A	GGAAGTGCAGGCTTTTCTCC	PCSK1N	GACAAGCTGGGCTGCGAGGG
CCDC74A	AAAGCAGAGGCCTCTAATGC	PCSK1N	GGGGCCGTCGTCGTAGACCG
CCDC74A	AAAAGCTGACGTCTCCCAGA	PCSK1N	AGTGCCCCGAGGTGAGGCGG
CCDC74A	CAGCCTGAGCCCACCTGTGG	PCSK1N	GGCGCTGGCGCATCTGCTGG
CCDC74A	ACAGGCCAGGAGGCAAGCGT	PCSK1N	CCGGGCACCTCAACAGCTCG
CCL7	GAAAAATCCCTAAGCAGAGGC	PCSK1N	CGAGCAGCAGCAGCACCAAA
CCL7	ACATACATTACAGCTTCCCG	PDE4D	GCATGATAACAGTCAAGGGC
CCL7	CAGACACAGAAGTGCTGCAG	PDE4D	GTGGACGGACCGGATAATGG
CCL7	AGAGGCTGGAGAGCTACAGA	PDE4D	GAAATCATCATACCTTGGA
CCL7	CCGGGGACAGTGGCTACTGG	PDE4D	ATGGAGGAGTTCTTCCGCCA
CCL7	CCTGGCTGAGCAAGCCCCTG	PDE4D	GGAGACCGAGAGAGGGAACG
CCL7	GTGCTGACCCACACAGAAG	PDE4D	AGACCAATGTCTCAGATCAG
CCL7	CCAGGTGCTTCATAAAGTCC	PDE4D	TAAAGCCACAGCCAAATGA
CCL7	GTCCTGGACCCACTTCTGTG	PDE4D	TGTGATAGGCCACATCAGCA
CCL7	CTTCAAGACCAAAGTGGACA	PDE4D	ATGATGGTTCTCTAAGACTG
CD36	GAAGTGTGGGCTCATCGCTG	PDE4D	ACTAAGAAAGTGACAAGCTC
CD36	GGACTTGCATACAGAAAATG	PDLIM3	CCGGTGACGAAAGTCCATGG
CD36	GAATACCTCCAAACACAGCC	PDLIM3	GCAGCTGCCAACCTGTGTCC
CD36	AAATGTAACCCAGGACGCTG	PDLIM3	GACATCTCCAGGACACAGGT
CD36	AGGATAAAACAGACCAACTG	PDLIM3	GCGGTTCAGGCGGGGCACAG
CD36	TGGCTTTTCTCAACAAAAGG	PDLIM3	GATTACACCAGGAAGCAAGG
CD36	GACATCAGCAAATGCAAAGA	PDLIM3	CTGAAGGAGCCCGACTGGCG
CD36	TGAGGAAGTGAAATGTACAC	PDLIM3	GGAAGGCGGCATGCCCCAGA
CD36	ATGGGCTGTGACCGGAAGT	PDLIM3	CAGAGTGCTCCAGGGAATGG
CD36	GGAGGTATTCTAATGCCAGT	PDLIM3	GGAATGGTGGACGATGGCTC
CDH3	GAGACGCGAGAGGTCCACGA	PDLIM3	CTGGGGCTTCAGGCTCTCAG
CDH3	GTGCCGGGCGGTCTTCAGGG	PECR	CAAGTGGCCATCGTCACCGG
CDH3	GAAGTGACCTTGAGGCGGG	PECR	GTAGCTCCTGCCCTTAGCCC
CDH3	GCAGGAAAGAAGGTCACTGA	PECR	TGTGCTTGAGACCAACCTGA
CDH3	GAATAAGCCACTGGACCGGG	PECR	CAGTAGGAAGCAGACCACAG
CDH3	TTACCCAGGACACCTTCCGA	PECR	GATGGCTTTTCCGATGCCCC
CDH3	GACACACACAGGCTCCCCAG	PECR	CTCCAGGAGCTCCTTCACGA
CDH3	CAGAAGGGTTCCCGTGCCAG	PECR	ATGCAACATCCGGAATGAGG
CDH3	GAGCTGGGCCTGGAAGGGG	PECR	GCTTTGGAATGGGCCTGCAG
CDH3	GCCATGGCAGTCGCACACAG	PECR	TATTTATTCCCAGACTGCTG
CDK6	GCCCGCGACTTGAAGAACGG	PECR	GAACACCAATTCGTTTAGCG
CDK6	ATGCGTGGCGGAGATCGGGG	PEG10	GGAGCGCTCCAGCTTTGCTG
CDK6	CGGGGAGGGCGCCTATGGGA	PEG10	GGTAGATCCAACCGAGCCGG
CDK6	GCCGCTCTCCACCATCCGCG	PEG10	GAAGGTCATGAAGCAGTCGG

CDK6	AACATTCTGGTGACCAGCAG	PEG10	CCAGGTGCAGAAAGCTCACAG
CDK6	CAACACTCCAGAGATCCACG	PEG10	ATCATCCTCATCCTCAGGGG
CDK6	AATGAAAAGCCTGCCTGGGA	PEG10	CAGCAGCTGCTGCAGCACCG
CDK6	GCGTCCAGGCGGCATGGAGA	PEG10	GCTGATTGACCAGTACCACG
CDK6	CCAGCAGTACGAATGCGTGG	PEG10	GGAGGAGCTCTCCACCTCG
CDK6	GACCTTCGAGCACCCCAACG	PEG10	GCGACTTGGCGACCTCGAGG
CELSR1	GCCCCGGCTGTACCTACGCGG	PEG10	GTGAGGCAACACCAGCGCCC
CELSR1	TAGGTGGTGCCGAGCGCGG	PGR	GAAGCTTGACAAACTCCTGT
CELSR1	CGTGCGGGAGAACCTGGAGG	PGR	ACTTGTGAGCAAAGAACTGG
CELSR1	GGAGCACTACAGCTTCGGGG	PGR	AGATCCTACAAACACGTCAG
CELSR1	AAGGTGACGAAGGACTGGGG	PGR	AAAGTGCTGTCAGGCTGGCA
CELSR1	GTAAATGATGACCAGAGCGA	PGR	TGTTGCTCTCCACAGCCAG
CELSR1	GCGACAGCCAGCAGAAAGTCG	PGR	ATTAACAGGTTGATCAGTGG
CELSR1	GCAGTGGAAGGAGGACGA	PGR	AAGTGGTCTAAATCATTGCC
CELSR1	GATGCTGTCCAGCGAGGCGG	PGR	GTGGGATCTGCCACATGGTA
CELSR1	GAGGAGCAGGGCAGTCACCG	PGR	TGACTTCGTAGCCCTTCCAA
CELSR2	AGGTCGACTGGAGTACACCA	PGR	CAGGCTGGCATGGTCCTTGG
CELSR2	GCATCGTGCGAACGCTACGG	PI4KA	AGGGGCCTGGCACATGACGG
CELSR2	GGAGGCGATGAAGGGCGCGG	PI4KA	GGAGATGGTGGACATGCCGC
CELSR2	GAGCCAGGAAAAGGTGCAG	PI4KA	ATGTCTAAGAAAACCAACCG
CELSR2	GCAACGGGGCCCCTGAGGAG	PI4KA	ACAAATACTACATGAAGCGC
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CELSR2	GGGCAAGCTCACACTGCCCCG	PI4KA	GGAGAAGTAGGAGAGGCCTG
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CELSR2	GTAGCCAGGGCACTTCGTCTG	PI4KA	CATGTCCCTGAACATCGGCG
CELSR2	GGAGTACAAGGAGAGCCTCA	PI4KA	GTGCAGCTGGGAGCCCCGGT
CERKL	TGAGCGAGCGAGCACTGCGG	PI4KA	GTACAACCCGCTGTCAGCCC
CERKL	AAAGCGAAGAAGCTTGCCAG	PIK3R1	GCCTAGCCAATATTCACTGG
CERKL	GGGGACGTTAACAGCGCCGG	PIK3R1	AAGCTGAAAACCTGTTGCGA
CERKL	AACGTCCCCGAGCAGACGG	PIK3R1	AACAGTGCCAGACCCAAGAG
CERKL	GGGCATCTTCGAGATCGGGA	PIK3R1	CTAGAGATTTCATTCCGGTAG
CERKL	CATTTCAGCCCGAGCGCCCGG	PIK3R1	GGCAAAAGAAGTTGAACGAG
CERKL	GGTGCCACTGAACACAGGCA	PIK3R1	CATGTCTTCTCATCATGATG
CERKL	CCTGCGACTCCGCCATGCC	PIK3R1	GTCCGGGAGAGCAGTAAACA
CERKL	CGGGTGAGTGCCCTGGAGGG	PIK3R1	AGAATATACCCGCACATCCC
CERKL	GATGGATGTCCCCTAACCAA	PIK3R1	GAAAACCTCACCTGGGATGTG
CES3	GAAGGCTGATCATGGGGCCG	PIK3R1	AGATACATACTACAGAGC
CES3	GGAGCTCTCGTCCATGAGGA	PIP	GCAGAGAACCAGGAGCAGGG
CES3	GCAGCTAAGCCTCACCATGA	PIP	GGCTGGCCCTGAACAGGAGC
CES3	AATGGAGCAGATGAGCCGGG	PIP	GGTGTAAGAGTCCCAAGTAGA
CES3	TAGGTATTCATCTATGACGG	PIP	CAGGAGCAGGGTGGCAGGGC
CES3	GAGGGTGCTTTTGTGTTCCG	PIP	TGGATTGTGCTCACATAGGC
CES3	AGCCTTTCCAGAGGCCACAG	PIP	GTAGAGGGATGCTGCTAATG
CES3	GGTCAAGACGGGTGTTGAGA	PIP	GCTTGCTCCAGCTCCTGTTC

CES3	TGCGAAGATCAAACCTGCCT	PIP	TTCCCGAATAACATCAACGA
CES3	TCTCACCAGACTGGTCAAGA	PIP	GGATTACAGCAGCATCATCA
CFI	AAGGTCAAGGCAGGCCACGT	PIP	CCAACTGCAGGCAGAGAACC
CFI	GAGGTGCTGATACTCAAAGA	PKP1	GGACCAGGACAACTCCACGT
CFI	TGAGGTGGACTGCATTACAG	PKP1	GTGGTGTTACAGCTGCCCCG
CFI	GTGGCAATTAAGGATGCCAG	PKP1	GCAGATGTCGCTGCCTGCGC
CFI	GATGCCAGTGGAATCACCTG	PKP1	GTACTGCACAGCCTTGGGGA
CFI	GGAATAGGTAAGGAGACCAG	PKP1	CCAACAAGCTGGAGACCCGG
CFI	GCATGGAAATACAGATTACAG	PKP1	GAGGCAGAATGGGATCCGCG
CFI	TATGTTTGCACAGCATGCCA	PKP1	GAGACCAACCCCAAGGGCAG
CFI	GAGCATGAGGGAAGCCAACG	PKP1	AGGGAACCAGGTGTTCCCGG
CFI	TGTCTACATGTGCATTGCCG	PKP1	GAAGCATTTCGTACGCCAAGG
CGN	AGAGTTTTGAGGAGCCGCGG	PKP1	GTAGTAGCTGCTCCTGCTGG
CGN	GGAGTTGGAGAAGCAGCTGG	PLA2G16	CCTGCAGCAAAATCATCCAG
CGN	AGATGAGGAGAAGAACACCG	PLA2G16	TGGGCCATCTATGTTGGCGA
CGN	GAGATGGGCACTCTACGTCG	PLA2G16	GCAGGTGAGGTGCGAGGAGC
CGN	TCAGATGTGCTGCTCTGCGA	PLA2G16	GAAGGAATTGCTGTATGATG
CGN	GGGTCCTGTGCACTCCTCCG	PLA2G16	GAGGACGCACCTGGTCACTG
CGN	TGAGCTTACCCGAAAAGTGG	PLA2G16	GATGGCCTTGTCAGTCAGGG
CGN	TGGGCTGGAGACCCAGGTGA	PLA2G16	AGTCAGGGCGGACATGACAC
CGN	GAACAAGCTGAAACATGTCC	PLA2G16	TTTGTGAATGAGCTGCGCTA
CGN	GGAGGGGAAACAGCGAGTAG	PLA2G16	TTGCAGCCAGAGCCTAAGCC
CHMP4C	AATCCAGAGAGAAATCGCCC	PLA2G16	CCATGTGTTCTTACTTGAG
CHMP4C	TGAGTTCCAGAGAGAAGCCC	PLAT	GCTGGAGACACTCGGAGCGG
CHMP4C	GAACTCACACACCAACACTG	PLAT	GAAGAACCGCAGGCTGACGT
CHMP4C	GCTGGGTAACAGACCTGCTC	PLAT	GTAAATGTTGTGATGTGCAG
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CHMP4C	GTTCTCAACACCTCAGTGT	PLAT	AGAGGAGCCAGATCTTACCA
CHMP4C	GAAGCATTTTCTCAACGGGT	PLAT	CAACTGGAACAGCAGCGCGT
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CHMP4C	ACTGCACGTCGATCCCGAGC	PLAT	GGTGCTACGTCTTTAAGGCG
CHMP4C	GGCCTCCTGGGACTGGGAG	PLAT	GGATCATGGAATTCCACGGG
CHPT1	GGAGCACCGCTACAGCGCGG	PLAT	GCCACGTGCTGAAGAACCGC
CHPT1	GTCCAGTAGAGCTGCAGCGG	PLCB1	CAGATGAGCCCAGATGGCCG
CHPT1	GGCGAGCCCCAGCAGGGTGA	PLCB1	GGAGCAGCGCATGATCACAG
CHPT1	GTAGGAGATGAGCACGAGCG	PLCB1	TGAGGGCTCGAACATGCTGG
CHPT1	TGGAAAGAGAGTCACAGCCA	PLCB1	GTGTCCGACAGCCTCAAGAA
CHPT1	CATTCTTGCCAACACCACCA	PLCB1	GAGACACGCCAAAGCTCCCA
CHPT1	GGCCAGCCCTACCTCTTCGG	PLCB1	TTGGCGATACATCTCAACAG
CHPT1	GAGTCCAGGTGACAAGACAC	PLCB1	GAAGGGACGGACTGCAGAAG
CHPT1	GCTGAGCGAGCCGCTGAGCG	PLCB1	GAGGAACCTGTCATCACCCA
CHPT1	TTAGGGGAGCTCTTTGACCA	PLCB1	GGAGTCACTGTAGGTGTTGG
CILP	GGTGCCTCAACAGGGAGCAG	PLCB1	ACAACCTACCAAGTCTCCAG
CILP	GGGGCTGTCTCCCTTCCCGG	PLEKHA6	GGGGCTTGGGATCCAGACGG

CILP	GAAGAGGGTCAGCACTGCAT	PLEKHA6	GCTCCATGAGGGAGAAGCGG
CILP	GACCAGGAAGGAGAACACCC	PLEKHA6	TGAGCGCTTGCCAAAGGCGA
CILP	CAGGCTTGCCAAAGATGCTG	PLEKHA6	CCAGCTCCGGGGTTAAGCAG
CILP	GAGCCTCTAGCCGCAGGGGA	PLEKHA6	CAAGCGCTGGTTCGTCCTGG
CILP	AGGCTGGGGCACCTCCGGGA	PLEKHA6	GCTACCCGGAAGCTCAGGAG
CILP	GAGGTAGATAGCAGCCCCTG	PLEKHA6	GGTACTGCCAGCCATTGGGC
CILP	AAGCATCCTGAAGATCACAA	PLEKHA6	CAGTGGGTGAATCTGCGCCG
CILP	CATCAAGGCAGAGTTTGTGA	PLEKHA6	GCGGCGCAGGGAGCTAGAGG
CLCA2	ATGGTGGAAACACATCAGGG	PLEKHA6	ATTGTGTGAGCAGAACAAGG
CLCA2	CCATACACCCTACAATACAG	PLEKHF2	GGACGAGTTCCTTATTGGAGA
CLCA2	ACAGCTGGCTACGGATCACG	PLEKHF2	GATGAGGGAGACTTAAGGAA
CLCA2	GAAACTGGCAATGCCACGA	PLEKHF2	CAGAAGTCACAAATCCGCAC
CLCA2	GTGATGATATTAGTGACCAG	PLEKHF2	GAGTATTGACTAAGTTGTGC
CLCA2	AAGAAGCTTATCATCTCCGC	PLEKHF2	AACCACATTTGCGGCAATGG
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CLCA2	CATCGAACACACCCCAACGG	PLEKHF2	GCTATGACCTGCTTTCTGCT
CLCA2	TTGGGGCTGCAGATGAACCC	PLEKHF2	CCATGTCCCCAGCAGAAAAGC
CLDN1	CAACAGCTGCAGCCCCGCGT	PLEKHF2	GATGATGATAGCAGTGACTA
CLDN1	GGGCAGGGCAGTGCTGACGA	PLEKHH2	CAAGAAGGAAAACGGTGCAG
CLDN1	TGAGGTGCAGAAGATGAGGA	PLEKHH2	AAGTCAAGTCTTGGAAGCGG
CLDN1	CGAGCGAGTCATGGCCAACG	PLEKHH2	GGAAGCAACAATGTAAACGT
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CLDN1	AGATTGCTATCACTCCCAGG	PLEKHH2	CAGCAGCACTGTGTCCCCGG
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CLDN1	GTAAATCCTCCACTGGGGCA	PLEKHH2	ATCCTGTCAGAGCTTAACTG
CLDN1	TGCCAACCACCATCAAGGCA	PLEKHH2	CAAAGTTGTATACACTGGGG
CLDN3	GGAGATCACGGGCACCGCGC	PLEKHH2	CGGTGGTTTGTCTTAAAGG
CLDN3	GGGCAACGCGCAGCACACGA	PLS1	GGAGCTTGAAGAACTACAAG
CLDN3	GCACCACGCAGTTCATCCAC	PLS1	AATCAGATTGCCCTAAAGG
CLDN3	ACTGCCACAGGACCTTCAGG	PLS1	GAAGGGATTACTGCTATTGG
CLDN3	GCAGGATGGCCACCACGATG	PLS1	GGTGCATCAGATCTCAAAGA
CLDN3	GAAGTCCCGGATAATGGTGT	PLS1	GTTGCTGACAGCAACAAAGA
CLDN3	GCAGAAGCGCGAGATGGGCG	PLS1	GTTGACCACTGTACAACCAA
CLDN3	GAACAGCACGCCTGCCACGA	PLS1	CCGAGGAATTACTGCTGCGA
CLDN3	TCTGCGCCTCGGGCACACG	PLS1	GTCTTGGCTGAAGTTGCTGA
CLDN3	GATGATGTTGCTGCCGATGA	PLS1	AGGGAATTCAACACTTACCC
CLDN4	ACAGGTAATGGGCATCGCGC	PLS1	GTGTTATCGGATCTTGAGAG
CLDN4	CAAGTGTAACCAACTGCCTGG	PMEPA1	TCAGCCGGCACAGCCAGGGG
CLDN4	GCCAAGGAGCAGCAGGCCGG	PMEPA1	GTCAGGCAACGGAATCCCAG
CLDN4	GCGGGCAGCAGAATACTTGG	PMEPA1	GCGGGGCACTTACTGAGGAC
CLDN4	GCTGAACAATGGCCTCCATG	PMEPA1	CCTGACACTGTGCTCTCCGA
CLDN4	GCACCACGCAGTTCATCCAT	PMEPA1	ACCGTGCAGACAGCTTGTAG

CLDN4	ACTGCCGCAGGACCTGCAGG	PMEPA1	GGAAGGATGCCTGTGGCCCT
CLDN4	GCTGATGATGACGAGGGCGC	PMEPA1	GATAGGTGGGCTGGAAGCGG
CLDN4	GGCCAAGACCATGATCGTGG	PMEPA1	GCCACGTGCTACGGCAGCGG
CLDN4	CATCTCCCGCTTCTGCCCGG	PMEPA1	GAAGCGCTCCCGCTGGGCGA
CLDN8	AAGGCCGACACTCTCCACTG	PMEPA1	GTGCTGCAGGTACGGATAGG
CLDN8	AAAACCTTCTGGGAAGGACTG	PNLIPRP3	CCAGGTGTGCTCCCAAGCTG
CLDN8	GAGAAGCTCTCTACTTAGGA	PNLIPRP3	AAGATGACCACAAGCATCAA
CLDN8	AACAATCAGCACCAGTGCCG	PNLIPRP3	GGCATGGTTACAGTCAAAGA
CLDN8	GAAAGCCAAGAAGGACATCA	PNLIPRP3	GATTGTGTATAGTGTAGAGC
CLDN8	GGTGCATTTTCATGCCAAGGA	PNLIPRP3	GGGTCAAGGATACCAAGCCT
CLDN8	GAAGGCTCACATTCTGCTGA	PNLIPRP3	CAACAAAGTTGGCATCCGAG
CLDN8	GCCCAGCGATTCTAAGGCA	PNLIPRP3	AGTGGAAGCGAAGTCACTCA
CLDN8	GGTCCGGAGAAAGAGCCAGC	PNLIPRP3	CGGGGCAGTTAGGAAAACCTG
CLDN8	GAAATCTCTGATGATGGCAT	PNLIPRP3	ATCGATGCAGATGTTAACGT
CLMN	GAGTGGGCTGGCTTTCCTGG	PNLIPRP3	AAGATGGTTTACCATGGACC
CLMN	GGTGGACATGAAACAGGCCC	POLG2	GTAAATGGGGACCTAGACCG
CLMN	GAAGGCTTTCAGCATCGCAC	POLG2	GAAAGGAGTAGCCCCAAAGG
CLMN	GGCTGGAAACACCATCCAGG	POLG2	AGGGCATGTGAAGTCGCACG
CLMN	GACTCCGGAGAAGAAGCTGA	POLG2	CCAAGGGTCCGAAGCCGGGG
CLMN	GTGGGAAATAGAAGAGGTCG	POLG2	AGAATGGTGGACCTCGGTGG
CLMN	GGCTTATGTAGAAGACCCGG	POLG2	CAGGGAGCAGGTATTCCCGG
CLMN	CAGGTGCTGTATCTCAGCAG	POLG2	GCAAAGGGCCTGGTTTGTGG
CLMN	GATGCAGCAGAAATAGCAGA	POLG2	GCACTGTCCCCGGGTAGCAA
CLMN	GAAGGCTATCAAGGCCCTGT	POLG2	CACTGGTTTGAAGTTCTCGG
CLSTN2	GCAGCTCTGTGACGATCTGG	POLG2	GTAACCAGAAATCAAGCCAC
CLSTN2	GCAGACTAATTACATTGGGA	PON3	CAAGCGCTAGAAATCAGTGG
CLSTN2	GAGGTCAATGATGCCAGAGG	PON3	GAACCTACTTCTGATCCTGG
CLSTN2	CAGGGTGCCAAAGTCCCCGA	PON3	GGTCGGCCTGTCTTAGTCG
CLSTN2	TCCGCAAGAGAAAGACGAGG	PON3	GTAGCTTCATAGGATTAGGA
CLSTN2	GTGCCCCGGAGGGTGATCCG	PON3	CAGCGCCACGAGCTTCCCCA
CLSTN2	GAAGTGGTCTGTGCCCCGGA	PON3	GGTGAATGCCTCTCGAGAAG
CLSTN2	GGGCAGCAGGTCTCCAGAAG	PON3	GGAGGGAGTTGGTAAAATAG
CLSTN2	TATCACAGTCAACCCCATGG	PON3	CCCAAGGGAGGTTAAAGTGG
CLSTN2	TAGTCAATAAGCACAAGCCA	PON3	GCTACTGAACTATAACCCTG
CMPK2	GCAGCTGGTGCAGCAGGCGC	PON3	TCTTTTCTACAGCCCAAGGG
CMPK2	GGAGCTTCCCGACTGCACCC	POTEC	TTAAAAGCAGATGGTGACTG
CMPK2	GCCTAGGGCGAAGTGAGCCA	POTEC	CTTGCCGCTCCCCTTGACAGC
CMPK2	GCAGCTGGCACCCTGGAAG	POTEC	ACCGCTTCCCCTGCTGCAAG
CMPK2	GCTGTGGCAGCGCCTCTGGG	POTEC	ACTCCTTTATGAAGACGCTC
CMPK2	GACCAGGTCAAGCACTGCCC	POTEC	GAATGGCTTCTTCACAGCAG
CMPK2	ATGACCTGCAGGTAAAACCA	POTEC	GGGACACGGACATGAACAAG
CMPK2	TCCAGGACGAAGCGGCGCGG	POTEC	GTGGACAGCATAGTGTAGAG
CMPK2	CGGGTGTCAGGGTCATCCAG	POTEC	GTGACGAACAAAATGATACC
CMPK2	GCTGCTGGGCGCCTGTCAGG	POTEC	GTGGGGTAAGGTCCCCAGAA

CNN1	GCCTCGGTTGAAGTGAGCAG	POTEC	ATTCGATCTCAGGAGCAAGA
CNN1	AAAGGAAACAAGGTGAACGT	PPM1H	GGGGCTGTCTCAGGACGAGG
CNN1	GCAGGAGCGGAAATTCGAGC	PPM1H	GCAACTATTGGAGTGACCAG
CNN1	GAGCCGGGGAAGCTAAGAGA	PPM1H	GCCGTGGCCAATTTTCATGGG
CNN1	GGAGCTGAGAGAGTGGATCG	PPM1H	TCAGGCTCCGAGCACGGCGG
CNN1	GAACATCGGCAACTTCATCA	PPM1H	TCATCCTCAAGGAGACTCGG
CNN1	TGAGAACACCAACCATAAC	PPM1H	ACAGGAACTCATCCAAGAGA
CNN1	TGCCTACGGGCTGTCAGCCG	PPM1H	GCAGCCCTTCCCCATTGGGA
CNN1	GTATGACCACCAGCGGGAGC	PPM1H	CAGGCGTGACGCCACCACCG
CNN1	GGGGTGACAGGCCGTCGCAT	PPM1H	GGAGCAGCTGCAGGACATCG
CNNM4	GAGCCAGAGCAACATGGCGC	PPM1H	GCTGTATGTTGCAAATGCTG
CNNM4	CAGCTGGTCAACGTGAGCCG	PRAME	GTAAGGAGAAAATTTGCGCA
CNNM4	GGTGAGCACCACCAGCACGC	PRAME	GTCGCTTCAAAATGGAACGA
CNNM4	GGACTCACTGCTCTTCATGG	PRAME	GCAGAGCCTGCTGAAGGATG
CNNM4	GAAGGTAGTTGCCCTTGCGC	PRAME	AAGGCTGCCATGAAGAGTGG
CNNM4	GATGACAATGCCAATGGTGG	PRAME	GAGACACAGCCAGACCCTGA
CNNM4	GGAAGACAAAGTGCACCGGG	PRAME	TGAGTGTGTGGACAAGCCCA
CNNM4	TGAGCGGCCAGGAGGAGCTG	PRAME	CCAGCTCCACAAGTCTCCGT
CNNM4	GGAGAACATGAAGTTTGAGA	PRAME	TCATCAGCACTCCCAGAGGG
CNNM4	GCGGTCTGGGTAAGTGAAGG	PRAME	GCAGCCCTTCATTCCAGTAG
COL10A1	GAACGATACCAAATGCCAC	PRAME	GTAGACCTGTTCTCAAGGA
COL10A1	GAAGAACTGTGTCTTGGTGT	PREX1	CAAGCACCCAGACCACCCCG
COL10A1	TAGTGGGCCTTTTATGCCTG	PREX1	CAGAAGTCCAGGCCACACAG
COL10A1	GCTGCTAGTATCCTTGAAGT	PREX1	CAAGTGGCTGGAGCAGGTGG
COL10A1	GGAATCCTGAGAAAGAGGAG	PREX1	AGTGGAGAAGGGCCTCACGG
COL10A1	GGAGGGCCTTGGGGACCTGG	PREX1	GTGTAAACAATACTCCAAGG
COL10A1	AATGCCCCGACACAATGGAG	PREX1	GCAACCATGAGAAAGCCCTG
COL10A1	GGGAATCCTGGAATGCCTGG	PREX1	GGGTCAACTTACCAAAAAGGA
COL10A1	CCTACAGCTGATGGTCCCGG	PREX1	GGAGCAAGAAGTCCACCAAG
COL10A1	GGGATTCCAGGTGGTCCTGG	PREX1	CCAGCGGATTACCATAGCAA
COL12A1	GGAGTGTCTCACCAGAGCTG	PREX1	GGGAGACTGCCAGACTCGGG
COL12A1	GCAGGGCCTGGAGGTCCTGG	PROM1	CAAAAGAAATACCCCACCAG
COL12A1	GAAGAGCTTGTGCAAGCTG	PROM1	CAAGGAGACCAAAGAGGCGT
COL12A1	AGCTCACTCTAAAAGAACGA	PROM1	CCAGCGTGAAAAGTACGCTG
COL12A1	GTTACTGTTATAGGTAGAGG	PROM1	TGAATAGCAACCCTGAAGT
COL12A1	GTTTCTGCAGTACATGACGA	PROM1	ACACGCCACACAGTAAGCCC
COL12A1	GCGCTACCAGGAGGTCCCGG	PROM1	CATGCCACCCCGACACCCG
COL12A1	GAAGAATCACAGTATCCAGG	PROM1	GGCTGTGTCTCCAACACCGG
COL12A1	GAAACTCAAGGATGAGGGAG	PROM1	GCTCACCTCAATAATAACAG
COL12A1	GAATACTATCCAGTTTCTGG	PROM1	GAATAATAAACAGCAGCCCC
COL1A1	GGGGCGACCATCTTGACCGG	PROM1	CGTTGCTGTAACAAATGTGG
COL1A1	AACAGGGCCGACAGGACCGG	PRR15	GAAAAGCAAGGAAGCCGCAG
COL1A1	GCTGAAGTCGAAACCAGCGC	PRR15	GCTGCTGGTCCAGTCCGGGC
COL1A1	GACGAGACCAAGAACTGCCC	PRR15	GCGAGATCTTCAAATTGCGG

COL1A1	TATGATGAGAAATCAACCGG	PRR15	CCAGCACCCCAATCTCCTCG
COL1A1	AGGGAGACCACGAGGACCAG	PRR15	GAGCGATTTCCACCAGGGGC
COL1A1	GATACTCACAGGTGCACCAG	PRR15	AGGAAAGCCTGCCTCCTCCG
COL1A1	AGGCTCGCCAGGCTCACCAG	PRR15	CCTCCGGCCATGGCCGACAG
COL1A1	GAAGGCGGCAAAGGTCCCCG	PRR15	GCTGCCAGCATCGCCGCTGT
COL1A1	GCAGGGCCAGTCTCACCACG	PRR15	CAACAGCAGAAAAGAAAAGCA
COL1A2	GGAGCACCAAGAAGACCCTG	PRR15	CAAACCAGACAAGTTATACG
COL1A2	GGACTACCCACAGCACCAGG	PRRX1	GAGTCGCCGGGACTCACCAG
COL1A2	GGACCTCCAGGTGTAAGCGG	PRRX1	CCGCCGGGTGAACCTCACCG
COL1A2	GGGGCACCTGGGAAGCCTGG	PRRX1	GCTAGACCTGGAGGAAGCCG
COL1A2	GAGCCCCAGCAACGCCGGGA	PRRX1	AAAAGAAGAGAAAGCAGCGA
COL1A2	ACAGGGCCAGGAATACCGCG	PRRX1	CAGAACGTGCCCCGTAGCTGG
COL1A2	CTTGCAACACGACTACCAGG	PRRX1	GGAAGCCGGGGACATGGTGG
COL1A2	GGTGCTGCTGGCATACTGG	PRRX1	GCACAGGCGGATGAGAACGT
COL1A2	GCAGTACCAGCCTCTCCAGA	PRRX1	TCTGGAGCGGCAACCGGCGC
COL1A2	TGAGGACCTGGAGTGCCAGG	PRRX1	GGGCAACCTCGACACCCTGC
COL3A1	GCAGTTCCAGGAGGACCAGG	PRRX1	CAGGTCTAGCAGGTGACTGA
COL3A1	GGTGCTCCTGGACTGCGAGG	PTN	AAAGTGAAGAAGTCTGACTG
COL3A1	GGTAAGAATGGAGAACGAGG	PTN	CTGTGGGCTGGGCACACGGG
COL3A1	GGTGCACCTGGAGCTCCAGG	PTN	GCAGGGAAGAAAGAGAAACC
COL3A1	GGGGCCCCAGGACTTAGAGG	PTN	CTGACTGTGGAGAATGGCAG
COL3A1	GGAGTACCAGCAGCACCAGG	PTN	AGTGTGTGTGTGCCCACCAG
COL3A1	GGAATGCCTGGAGAAAGAGG	PTN	ATTGCTTCTTCCAGTTGCAG
COL3A1	GGGGTCCTGCAACTCCAGGA	PTN	GCTGTGGATACTGCTGAAGC
COL3A1	GCATGATTACAGATTCCAG	PTN	GCAAATACCAGTTCCAGGCC
COL3A1	ATAGCACCAAGGAGGTCCTGG	PTN	GTTCAGGTCACATTCTCCCC
COL6A1	GTACCGGCGCAACTTCACGG	PTN	TCTGGCATTCTGGCATTGTGC
COL6A1	CAAGCGTGGCATCGACGGGG	PTPN13	GAGGCCCTGGAGGTTCTGGGG
COL6A1	GCAGGCCCCAGACATGAGGG	PTPN13	AAGGCCAGTCACAGAGACCG
COL6A1	AGGATGAGCCGGAGACCCCG	PTPN13	ACAGAAGATACAGACTGCGA
COL6A1	TCTTCGGCCAGACTGCCCCG	PTPN13	ATGGAGAAATGATGAAGCCA
COL6A1	GCTGCACTACAGTGACGAGG	PTPN13	TAGAAAGCACATCAATGCCA
COL6A1	GAGGGCTACAAGGAACCCTG	PTPN13	AAGAGGTTTGAATCCAGCAG
COL6A1	GGGCGTCAAAGTCTTCTCGG	PTPN13	GGAAGAATGAGGATAACCGA
COL6A1	GCGTCTGAGCATCATCGCCA	PTPN13	AATACGAGTGTCAGACATGG
COL6A1	AGGGAGAACGAGGCAAGCCG	PTPN13	GGACAGCCAGCAGCAGAAAG
COMP	GGTGAGCAGAAGAACGCAGG	PTPN13	TCAGCTCCAAAGTCAACCAA
COMP	GGAAGTGCAGGAAACCAACG	PVALB	GACAGACTTGCTGAACGCTG
COMP	GCACCGGCCTACCCAGCGTG	PVALB	TGAGGACATCAAGAAGGCGG
COMP	GCTGTATCAACACCAGCCCCG	PVALB	CAAAAGTGGCTTCATCGAGG
COMP	GACTGTGCCCAACTCAGGGC	PVALB	TCATCGAGGAGGATGAGCTG
COMP	CAGGAGGATGTGGACCGCGA	PVALB	ATGGCTGCTGGAGACAAAGA
COMP	GACACAGACCAGGACGGCCG	PVALB	GAGTGCGGATGATGTGAAGA
COMP	CAGAAGGACAGTGATGGCGA	PVALB	GGTGTTTCACATGCTGGACA

COMP	AAGCATCTCCACAAAGTCG	PVALB	ATGCTGGACAAGGACAAAAG
COMP	GGTGCCTAACAGTGCCCAGG	PVALB	AAGGCGGTGGGAGCCTTTAG
COMTD1	GAAGAGGCCAGTGGCGAAGG	PVALB	AGATGGGGACGGCAAAATTG
COMTD1	GGTCCTGCTCACCCAGGAAG	PXMP4	GTTCCGGAAGCCCTTAAGCA
COMTD1	GCTGACCCTGGAGCAGCCGC	PXMP4	AATCCGGGCCCCCTCACGCGC
COMTD1	GCGCTCACCTGCCTCCACAG	PXMP4	GCAGAGCCCTTAGCTGCGGC
COMTD1	GCAAGACGAGCTGCTGGCGG	PXMP4	GCGCCGCTACCACGCTGCGT
COMTD1	CTGCAGCTGCTGCGACCCGG	PXMP4	TAAGCACGGCCAACGCAGCG
COMTD1	GAAGCAGGCACTGCTCTCGC	PXMP4	AGGTCATGACCAGCGCGTGA
COMTD1	GCGCGTGGTGACCTGCGAGG	PXMP4	TGGCAGCCCCGCCGAGCTA
COMTD1	CCAAGGCGGGCTTCAGCCGG	PXMP4	ACAGCTATGGAGCCAAAATC
COMTD1	CGAGGCCGGCACCTTCGACG	PXMP4	CAAACAGGACGCGTGACAAC
CORO2A	TGTCCACAGGCACATCCCGA	PXMP4	GCAGCCTCCAGGAGAAGCTG
CORO2A	GAAGGGAAACAGCACGCCCG	QSOX1	GGAAGTTCTGGACTAAGGGC
CORO2A	GAAGCGGAAGATCTCGCAGG	QSOX1	GCAGAACAAAGTTCACGGGG
CORO2A	GCAGTCAGAATCCTACCAAG	QSOX1	CAGCTGGGTGAGCTGCCCGG
CORO2A	CATATACCCTCCAACAGCAG	QSOX1	GATGCAGTGGCCGCACCAGG
CORO2A	AGTGGTTGTGCTGAACGCTG	QSOX1	GGAGAGGCTCATTGACGCCC
CORO2A	GCAGTTGTGACTGAGTGTGC	QSOX1	GCGCAGGGTGCTGAACACAG
CORO2A	GGTGTCCCTTACCTGGTGCA	QSOX1	ACAGGGAGCAGGGAAAGCCC
CORO2A	GCTGCTGACCAGGAACCTCA	QSOX1	GAAGTGGAAGAGGACCCACA
CORO2A	GAACCTCACGGCCTACAGGA	QSOX1	GCTGCCTCCATGCACCGGGT
COX6C	GTAGCATTCGTGCTATCCCT	QSOX1	AGGATGAGGAGGTGCAACAG
COX6C	GCCAGAAGGCCACGCATCCG	RAB11FIP1	GGTCCGGAGGACAGCAGCGA
COX6C	CCGAAGTTTTGCCAAAACCT	RAB11FIP1	GCAGCACCGTCACCTGCACG
COX6C	CAGGCGTCTGCGAAATCATA	RAB11FIP1	GCTGCGCTCCGACACGGAGG
COX6C	TTGCCAAAACCTCGGATGCG	RAB11FIP1	GGTGAGCTGCAGGGTGGCGG
COX6C	TGTGGCTGATCAAAGAAAGA	RAB11FIP1	CGTGCTAGGGATGATGGCGG
COX6C	TGGCAAAACTTCGGGAGCCA	RAB11FIP1	AAGGAGCCTGCTGAAGGAGG
COX6C	TAGCATTCGTGCTATCCCTG	RAB11FIP1	AGAGGCCACAAAAGAAGCTA
COX6C	CATATGATTTGCGAGACGCC	RAB11FIP1	GATGACGGGGAAGAAGGATG
COX6C	GGGGGTTGCAGCTTTGTATA	RAB11FIP1	GATGTGGCTAAGGGCAGTGA
CPA3	CATGAGGCTCATCCTGCCTG	RAB11FIP1	GGTCTGGGGAGCCCTCGGAG
CPA3	TCATATTAGCAGCTACGTGG	RAB11FIP4	GCAGTTTGAAGACTATGGGG
CPA3	GACAGGAGCAATTGCAAGAG	RAB11FIP4	CACGGAGCGCAGCAGAGCCG
CPA3	GGATTTCCGAGTTAGTGAGA	RAB11FIP4	GAGAATGACAGCCTGACCAA
CPA3	GGCTTGGACTIONGAAAAGATGA	RAB11FIP4	GCTTGCCGTAGGCCTCGCGG
CPA3	TTACCTGATAGACAAACCAC	RAB11FIP4	GGAGAGGGAGAAGGCTACCG
CPA3	AAGCCACCTGAATGAAATCA	RAB11FIP4	GAACCGCCTTGAGTTCCAGA
CPA3	AAAACCTGCCACCTAACCATG	RAB11FIP4	GAACCTCGCTAGGCCAGAGG
CPA3	TAGCAATCAAACCCACAGGC	RAB11FIP4	ACACCTCGAACACCTCGCGC
CPA3	GGTGTTCGCGTGAAAGCCCC	RAB11FIP4	AGGGTGCGAGGAGCTGCTGA
CRABP2	GCAGAAGCTCCTGAAGGGAG	RAB11FIP4	GTGCTGTGCGGTGGAGAGCGC
CRABP2	GATTAACCTCAAGGTTGGGG	RAB17	GCAGTGGCTGAAGGACCTGG

CRABP2	GGAGTTTGAGGAGCAGACTG	RAB17	GATCTCAAGCTTCAGAGAGG
CRABP2	GAGAGGGCCCCAAGACCTCG	RAB17	GTACACCAGAAGCGCAGCGT
CRABP2	CAGGGGTGAATGTGATGCTG	RAB17	GGTGTACGACATCACCAGGA
CRABP2	GCAGTGAGATCAAACAGGA	RAB17	GACGGACCTCAGCCAGGAGC
CRABP2	TGTGGTGCGCACGGTGGTGG	RAB17	AGCCAAGCTGGACTTACCCA
CRABP2	GTTGCCAGAGAAGTTGGGCA	RAB17	CAAGAGTATCCTGCCTACGG
CRABP2	GATGCTGAGGAAGATTGCTG	RAB17	TGCGTTCCTCACAAAGGTGG
CRABP2	CAGAGAACTGACCAACGATG	RAB17	AGTAGAGGTGGCAGACGCTG
CRISPLD1	GGAGTGGTTCGAAATCACGG	RAB17	CTGGAGGAGGAGCTGCACCC
CRISPLD1	GGTGGATAGCCAAACAACGA	RAPGEFL1	GCAGACAGGAGTCTATCCGG
CRISPLD1	ATGCCCCTTACAAACATGGG	RAPGEFL1	GGGGCTGCTTCAAGAGGAAG
CRISPLD1	GGCTAGAGCAATTCCAGCCA	RAPGEFL1	AAGGACGAGTCCCTTTACCA
CRISPLD1	CAGAATTTGGGAGCACACTG	RAPGEFL1	TCTGAGGCTGCACCAGCTGG
CRISPLD1	AGTGGCATTGGGAACCACCA	RAPGEFL1	GGGAGACCTGGATCTCCTCG
CRISPLD1	TGGATGAGGATGGTGAGTGG	RAPGEFL1	GCTGCAGCGAGGTCACGCAC
CRISPLD1	GTAGACATGGGATGTAGAGC	RAPGEFL1	GGAGGCATGGAGGGCCCTGA
CRISPLD1	CGATTGTACATGAAACGTCG	RAPGEFL1	AGAGCCCCGGAAGGCCACCC
CRISPLD1	GCACACCAGGTAGACAGCTT	RAPGEFL1	GGTGAAAACACAGTCCTCAG
CTNND2	GGAGTAGTAGAGCGCGGCGG	RAPGEFL1	CCCGAGTACAGGCAAACAGG
CTNND2	GGAGATGGTGGACTGCACGG	RBMS3	GCTGGGGCTGGGAGGAGCCA
CTNND2	GAGCTCCACAGGCACTACGG	RBMS3	GACGCTAATGGAGTCAGCAG
CTNND2	TGAAAGGCTGACCCGAGAGC	RBMS3	TCAGCAGCAACAGATAGCAG
CTNND2	GGCCGGGAGCTGTGAAGGGG	RBMS3	GCTGCTGTTTGTGCTGGGGC
CTNND2	GATGGGCGAGGAGGAGATGG	RBMS3	CAGCAGCAACAACAGCAGCG
CTNND2	GGAGTCTCAGCCAGAGCCAG	RBMS3	GAGGCCTCGAATGTACAGGT
CTNND2	GCCTGTGCGCTGCAAGGGGA	RBMS3	GCAAATATACCCAGAATGGG
CTNND2	GCTGTATGGAGACTCAACAG	RBMS3	GAAACAGCTGTCTGGAGGCAC
CTNND2	GCCGCGTTAGACTGGACCGA	RBMS3	CCTTCATCCCAGGACACCAG
CTSG	GAAGATACGCCATGTAGGGG	RBMS3	GGATAGTAGTAAGTGTA
CTSG	GCAGGTCAGAGCAGATGTGG	RBP7	GCAGGGTCCAAGTACCGCTG
CTSG	GCCACCCTCAATATAATCAG	RBP7	GAAAGTGATTGAGCAGAATG
CTSG	GAATCGAAACGTGAACCCAG	RBP7	GAAGTTGTCGCTGCTGAGCA
CTSG	GCTCTGCCTAGAGCCCAGGA	RBP7	TGATGAAGATAACAGAGGCC
CTSG	GGCAGGGTCAGCATGAGGAG	RBP7	CGAAGGAGACAACTCCACC
CTSG	CGTAGGAACCGAAGATGCGG	RBP7	ACCATGCCCCGCCGACCTCAG
CTSG	GCAGCCACTCCTGCTTCTGC	RBP7	CAGGCTCACCTGTATCCAGA
CTSG	GGTGCAGCTGAGAGTGAGA	RBP7	GAGGGCTACATGCTGGCCCT
CTSG	CAGCAGCTCATTGCTGGGGA	RBP7	CAACTGGCTATTTTACGAG
CWH43	AGGATTTCTCTCCACAGCGA	RBP7	AGAACAGAGGCTGGACCCAT
CWH43	GGTCAGGAAGTCATTTGCAA	RBPMs	GAGCGAGGCCAACCTTCAGG
CWH43	GAAGACTGGTGAGGTAGCCA	RBPMs	GGATAGGTGAAAGCAGGAGG
CWH43	GGGTCTAGAGGCCATCCCCG	RBPMs	AGGACCGGGAAGATGAACAA
CWH43	ATTAACCTCAGGGACAAACCC	RBPMs	GAGGTTTGATATCCAGAGGA
CWH43	GTGAGTTCTAGTGTTGCAA	RBPMs	GCGGAATTTTCAGGATCGAAG

CWH43	AGTGGATGCTAACCCTGCTG	RBPMs	CCAGTACCTCCTCCTCTGA
CWH43	GTA CTGCTGTGCTTG GCAAG	RBPMs	AAAAGCAGATAGAGCTCCCCG
CWH43	AACAGGAACAGCTTCAGCTG	RBPMs	ACTACGACTAGAGTTTGCTA
CWH43	ACAGCACTGATCATGACAGA	RBPMs	TGCTAAGGCAAACACGAAGA
CXCL2	CAGCGCAGTTCAGTGGCCAG	RBPMs	GGCTCTCTGGCAATGAACTG
CXCL2	CAAGAACATCCAAAGTGTGA	RET	AGGGGTGGTCACCTCAGCCG
CXCL2	GAGAGCGTGGCGCGGGCCAT	RET	GGGTCTCCACAACATCGCAG
CXCL2	TCTCAACCCCGCATCGCCCA	RET	CAACAGCAGACGCAGCCCCG
CXCL2	GGGCGAGACTTACATGACTT	RET	CAACTGGATCTGCATCCAGG
CXCL2	TCTTGAGGTGAATTCCCTGC	RET	GGCTCCGGTTAAGGTAGAGG
CXCL2	GGGACTTCACCTTCACACTT	RET	GAAGAAGGAGAAGTATACGC
CXCL2	TTTCTGCCCATTCTTGAGTG	RET	GAACTGGTGGAAGGTGCCTG
CXCL2	GCTGCTGCTCCTGCTCCTGG	RET	GCAGCGGGAGAAGTACGAGC
CXCL2	CAATCCCCGGCTCCTGCGGG	RET	GGTGGAGTTCAAGCGGAAGG
CXorf40A	ACTGGGAAGGCGATGCCTGG	RET	GGCCCAGCAGACCTTCCGGG
CXorf40A	GTTCCGCTGGCTGCTCAGCA	RGL3	GCTGCCCAGAGGCAAAGCGA
CXorf40A	CTCCACCAGCAGCTCCCGCC	RGL3	GGACTGGGGTGAAGAGACCG
CXorf40A	CAGAGCACCTGATCCCATTG	RGL3	CAGTCAGCGCAGGAGCCCCG
CXorf40A	AGCAAGGTCTGAATCTGAGC	RGL3	GGAAGGCGGGCATGAAGCTG
CXorf40A	ATTGCTCACAGGGACTGGGA	RGL3	TGAGCTTCAACAAGAACCTG
CXorf40A	CATAAGGCTGCCGGAAGGAG	RGL3	GGTCTCGGAAATCCTGAGGG
CXorf40A	GAGCCCATACCTAGGAAAGG	RGL3	GGACTTCAGCGTGGACGAGG
CXorf40A	GTGAGCAATGTGGACGGCGA	RGL3	GGTGTTGAACTGGGCCACGG
CXorf40A	CTGTGATTTCAAACCCCAGG	RGL3	GAAGTGGATCCGCATCGCCC
CYB5R2	AAATCAGCCACAACCCCGG	RGL3	GGACAGGATGGCGCGCAAGG
CYB5R2	CTACAGGAAGCCCTAAGACA	RHOJ	GAAGATGTTGAAGTGTGTGG
CYB5R2	GCTTCTTTTCTAGACAGAGG	RHOJ	GAGGGAAGTACAGCAGCTG
CYB5R2	GCAGTCCAAAGCGGAACCTC	RHOJ	GCTCGGACTGTATGACACCG
CYB5R2	TCACCTGGGAATGATTGCTG	RHOJ	AGGAGGACTACAACCAGCTG
CYB5R2	ATGGATGTTCGTACCAATGGG	RHOJ	CAGCAGGCAGGTTTTCCCCA
CYB5R2	GTCATCATCACTGGAGACAG	RHOJ	CGCCAACGACGCCTTCCAG
CYB5R2	GTGGCGAATGAGCTGCAACA	RHOJ	GGACATTGTGGTAAGAGGCA
CYB5R2	AAAACACTGGCCGATCACCT	RHOJ	GGCATGCAGTCCTTGAGCTC
CYB5R2	ACATCCTGGTCCTGTCACTG	RHOJ	CGCAAGAATGAACTGCAAAG
CYP1B1	GCCACTGATCGGAAACGCGG	RHOJ	GGCGTAGCTCATCAGCAGGC
CYP1B1	GCCGCCGGACACCACACGGA	RHOV	GCTGGGCATCAAGTGCGTGC
CYP1B1	ACGGCGCCTTCCTCGACCCG	RHOV	AGAGAAGGTGTCCAGCGCAG
CYP1B1	GTAGCGGCAGCCGAAACACA	RHOV	AAGTGCGTGCTGGTGGGCGA
CYP1B1	TGAGCAGCTCACGGAACTCG	RHOV	GATGAGGCTGCTCTTGCCCA
CYP1B1	GAGCAGCCACTGCAGCGCGG	RHOV	TCGGCCTCGCTCAGCTCCCCG
CYP1B1	GTGGTCTGCTGGATGGACAG	RHOV	GCACCGGAGCTCCATCCACC
CYP1B1	AGCGGCTGCTGAGGCAACGG	RHOV	TGCAGGTGTAGCTGACGATG
CYP1B1	GCGCCAGGCGAGCGAACGAG	RHOV	GCAGTGCAAGTCCTGGTGGA
CYP1B1	GACGTTGGCCACGGCCACGA	RHOV	TTGAACGTACGTACCAGAGA

CYYR1	GTAGGAGCAACAGTAGGGCG	RHOV	CATTGAGCTCTGGGACACAG
CYYR1	GAACCACAGGGCGACCCGCG	RHPN2	GGAGGGGCTGAACATCTCGG
CYYR1	GAGGCTACCCGTGCGTCCAG	RHPN2	GAACGACGGCTACTTTCGGA
CYYR1	GACCTGCGTAGACAAAGAGC	RHPN2	GATGCCTTTCAGAGAGCCGC
CYYR1	GCATGTGCATGAAGAACCAC	RHPN2	GTACGCCCAGCACCAGGAGG
CYYR1	GTTTTGCTCACCAGGATAGG	RHPN2	GCCTAGCCGGGATGAGGCCG
CYYR1	AGCAAGACCCCTGGACGCAC	RHPN2	TGTTTTCGGCTAACAAGCGG
CYYR1	ACAAAGAGCAGGACCAACTT	RHPN2	CCAGGAAGTGAACCTGAACG
CYYR1	GATGATTGCCTTGCTCAGTG	RHPN2	CCGCTGGAGAAGGAGAACGA
CYYR1	TCGTCCTGAGGATGCCCACG	RHPN2	CGTGCGGATGAGGACCGGAG
DACH1	GAAGCGGCTGGAGATCACGC	RHPN2	TAGGTATGACTCTCTCACCG
DACH1	GAGATAGAGGCTGACCGCAG	RMND1	GGACAGTCAAACTTCACAG
DACH1	GGAGGTGGTGGTGCCAGAGG	RMND1	GCACTGCACAGCATTTGCAA
DACH1	AGTTGGCCCAGAGGACGCCG	RMND1	GGAATCACCTGAATGAGAAG
DACH1	GCCACAGTCACCTCTACCGG	RMND1	TATATGATGAGATCTGGCCA
DACH1	GTAACAACCCGTCCCCAG	RMND1	GAAGTAACAAGCTTGCCTAG
DACH1	ACAATGACTGCACCAACGCA	RMND1	AGCCACACTCCTCAGAGCCG
DACH1	AAAGGAGATGGAAAACCTGG	RMND1	TCAGCCCTATGAAATCGCAC
DACH1	AGACGAAGTCGCCGAAGAGG	RMND1	TGGGACAGAGAAAACCTGGA
DACH1	CCGAAGCGATGGGCTCCGGG	RMND1	AGAGGGCACTCCGCTTGAG
DCLK1	CAGGAAGCCTGCGGAAGCAG	RMND1	GACCCACAAACCAATCTGT
DCLK1	GAGAACGATGGCCCTGGAGA	RNASE1	GAGGCGCCGGAATATGACAC
DCLK1	TCTCTGGCTTGATATCACGG	RNASE1	GATGTGTCTCTCCTTCGGGC
DCLK1	GTGCCACAGACTGTGTACAG	RNASE1	GCAGTATCAGGACAAGCAGA
DCLK1	GAGTCACTTACATTAACCCA	RNASE1	ACATTCTGGACATCTACCAG
DCLK1	AGCTCGATGGATGAGAACGA	RNASE1	GGTCACCTGCAAGAACGGGC
DCLK1	GAGTAGAGAGCTGACTACCA	RNASE1	AAGAGACTTCTCCAGAGCCA
DCLK1	GGTGGACGCAAGTGACGTAG	RNASE1	CCCGGGCCAAGAAATTCAG
DCLK1	GATTCTTTCAGAAGTGTCGG	RNASE1	ACAGTAGGTGGAGCTGCTGC
DCLK1	GTCGGAAGAACAATAGGAGA	RNASE1	GTAACCAAATGATGAGGCGC
DEFB1	GAGAGTAAACAGCAGAAGGT	RNASE1	GCAGTCTGTGATGTGCATGC
DEFB1	CAGAAGGTAGGAAGTTCTCA	RNF128	AAGAGGCATACAAGTGACAA
DEFB1	CTGCTTACTTTTGTCTGAGA	RNF128	GGAATGCAAGAGCTCAAAGC
DEFB1	AATTTTGGTAAAGATCGGGC	RNF128	ATAAGACATGTGTTGACCCA
DEFB1	TACAATTGCGTCAGCAGTGG	RNF128	GCGATTATCCTCTTCATGGG
DEFB1	AGGCACCTGTTACAGAGGGA	RNF128	TGCACGTGTTCCCTCCAGAGG
DEFB1	GGTAACTTTCTCACAGGCCT	RNF128	CAACTACGCACACTGAAACA
DEFB1	ACAGGTGGTAACTTTCTCAC	RNF128	GTCCTGTGTTCTAACAGCCA
DEFB1	AATGATCAGATCTGTGGCCA	RNF128	GAGTATGTCACATTTGCACA
DEFB1	ATTCAAGGCACCTGTTACAG	RNF128	AACAGATGAACCGCCTCTGG
DNALI1	TGCGGGCGGAATCATGGCGG	RNF128	CAGCACAACTATCTCCATCA
DNALI1	ACTGTGAGTAGAGTTCCCTG	RNF43	GCAGCTGGTAGCATGAGTGG
DNALI1	GAGGCAAGTGAACGAGCAGA	RNF43	ACTGGTACTGGCAGCAGCGG
DNALI1	AATGTGAAGCCACTGAGAAG	RNF43	GTGGATCCTAATGACAGTGG

DNALI1	GGAGAGCGAGAGGCGGCAGG	RNF43	GCTGGCCTGGTACCTCCTGG
DNALI1	CAAGTACGACACCCCAGTGC	RNF43	CAGACAGATGGCACACACAG
DNALI1	GGGTGGAAGACACGCAGCTA	RNF43	AGGGGTCCACACAGTTACGA
DNALI1	GCTGCAGCAGCGGCAGGCCA	RNF43	CGGGATGCTGGCGAATGAGG
DNALI1	GGAGACGGAAGAGAGAGACC	RNF43	ACAGGTAGGCAGCAGGGAGG
DNALI1	GGAGGAGAAGAAGCACAAATG	RNF43	GGGCCCTTCCCGGAGTGACG
DSG1	GTAGCCATTGAAAACACTGG	RNF43	GGACTCGGTGGTGCCACAG
DSG1	AAGGTGAAGACAACCTCAAAG	RSAD2	GCCCTCAGCCAGCAGAACAG
DSG1	AGAGGCTCTGACCGAGATGG	RSAD2	CAAGAGGAGAAAGCAGCAGC
DSG1	GAAATGCAAGATCTGGGAGG	RSAD2	GCCAGATGAGACCAAAGAGG
DSG1	GACAGGATTTGAACTAACAG	RSAD2	GTTGGGGTGGTGGGCAGAGG
DSG1	TCAAATGGCATTCAATCCGA	RSAD2	GAAGCCTGATCCGGGAGAGG
DSG1	AGAGTCAGTAGAAGTTGTGC	RSAD2	ATAGTTGACGCTGGTTGGGG
DSG1	AAGGACCACAGCCTGAACCC	RSAD2	GAGAAGATCAACTTTTCAGG
DSG1	CAATGGGCCAAGATTTAGAG	RSAD2	TGGAACACCTTCAAAAGCTG
DSG1	GTAGCTACTGACCTGGACAC	RSAD2	AGCGTGAGCATCGTGAGCAA
ECSCR	CCAGCTGACATGGGCACCGC	RSAD2	CTCCTGTGACAGCTTTGACG
ECSCR	GGGTACCAGTGCTGGACAGA	S100A1	AATGGGCTCTGAGCTGGAGA
ECSCR	GCACAGCTGCATGGCTCCTG	S100A1	GGCGTGGAACACGTTGATGA
ECSCR	TGGTCAGACTTAGACCGCCA	S100A1	GCTGAAAGAGCTGCTGCAGA
ECSCR	AGGATACATCCCTTCCTCAG	S100A1	ACGCCCCACTCGGGCAAAGAG
ECSCR	CTCGGAACAGGAGGAAGCCC	S100A1	CAAGTACAAGCTGAGCAAGA
ECSCR	GGCCTGTTAGCCTCTGAGGA	S100A1	CCAGAAGGATGTGGATGCTG
ECSCR	ACAAAGTCTCTCAGCAGAGA	S100A1	CGAGAATGGAGACGGGGAGG
ECSCR	TCTGTTTCAGGAGGCCTTGG	S100A1	TGCTGTGGACAAGGTGATGA
ECSCR	GTTGGAAGAACTGGCTCTG	S100A1	GCTTGTGGCTGCTCTCACAG
EEF1A2	GATGGGCACAAAGGGCACGG	S100A1	CCACAAGCACCATACTCC
EEF1A2	GAAGACCCACATCAACATCG	S100A14	GTGTCGGTCAGCCAACGCAG
EEF1A2	GATGAGGTGGCCCGTGGTGG	S100A14	GAATGAGCCCACCTCTGCGT
EEF1A2	TGAGAAGTTCGAGAAGGAGG	S100A14	GAACCTTCACCACTACTCCG
EEF1A2	GGTGCTGGACAAGCTGAAGG	S100A14	GCAGCTGCCCCATCTCATGC
EEF1A2	TGTTCTTGATGAAGTCGCGG	S100A14	GGAATTCAGTGATGTGGAGA
EEF1A2	GGGCGTGGGCGAGTTCGAGG	S100A14	GTACTCCGTGGAGGGTGGGA
EEF1A2	TGTGTGGCAGTCGATGACCG	S100A14	CAGGTCCCGTAGCTCAGAAG
EEF1A2	CACCTCATCTACAAATGCGG	S100A14	GTCCATACCGGCATGAGATG
EEF1A2	TCACCCGCTCCAGATGGGGA	S100A14	GTTCTTGATGAGGGTCTCAA
EFNA3	TGGGCCAGCAGCGGCAGCAG	S100A14	AAGCTGGAGAGGCCTGTCCG
EFNA3	CCAGCCAGGGCTTCAAGCGC	S100A9	CCAGCTTCACAGAGTATTGG
EFNA3	GAGAGAAGGCGCTGTAGCGC	S100A9	CACCCAGACACCCTGAACCA
EFNA3	GTGCAGGTTGTGAGTGCGG	S100A9	GACTTGCAAAATGTGCGCAGC
EFNA3	GCCCGCACTACAACAGCTCG	S100A9	TTGGTGGAAGGTGTTGATGA
EFNA3	GAACCTCGTAGCCAGAGAGA	S100A9	GGTCATAGAACACATCATGG
EFNA3	AGTGGGGACCGGCTTCTCCC	S100A9	GAAGATGCACGAGGGTGACG
EFNA3	GCGAGAGGGCTACACCGTGC	S100A9	CCATAAGCCAGGCCTCGGGG

EFNA3	GGCGCTGGGAAACCGGCATG	S100A9	AGTTCATCATGCTGATGGCG
EFNA3	TGTTCCAGTACACCGCATGC	S100A9	GCTGATGGCGAGGCTAACCT
EGFR	GCAACGTGGAGAGCATCCAG	S100A9	CCTGGCCACCACCATAAGCC
EGFR	GATGTTCAATAACTGTGAGG	SAA1	GGTTTTCTGCTCCTTGGTCC
EGFR	CCAGATGGATGTGAACCCCG	SAA1	GAGATTCTTTGGCCATGGTG
EGFR	AGCGATGCGACCCTCCGGGA	SAA1	GATCAGGCTGCCAATGAATG
EGFR	GAAAACCTGCAGATCATCAG	SAA1	GCCACTCCTGCCCCATTCAT
EGFR	GGGGTTGTAGAGCATGAGTG	SAA1	AGCTTCGGCTGCTGACACCC
EGFR	GTGGAGATCGCCACTGATGG	SAA1	CGTGATCACTTCTGCAGCCC
EGFR	CGATCTCCACATCCTGCCGG	SAA1	CCATGGTGCGGAGGACTCGC
EGFR	TGGAAATTACCTATGTGCAG	SAA1	GAATCTCTGGATATTCTCTC
EGFR	GAATTCGCTCCACTGTGTTG	SAA1	GCTGCTGACACCCAGGACCA
ELF5	GGTGGTTAAATCGGAAGCCC	SAA1	ACAAATACTTCCATGCTCGG
ELF5	GAATGGGAAGATAGGGAACA	SAA2	ATCCAGAGACTCACAGGCCG
ELF5	AGATCAGTCCACGACATCAG	SAA2	GATCAGGCTGCCAATAAATG
ELF5	CTGTCTGATGCTCAAAGGCA	SAA2	GGAGGACTCGCTGGCCGATC
ELF5	CTATCTCCTGAAGAAAAGT	SAA2	GCTGCTGACACTCAGGACCA
ELF5	CGGAAGCCCTGGCAAAGATG	SAA2	CCTGATCACTTCTGCAGCCC
ELF5	AAAAGTTGAGCAGAGCCCTG	SAA2	CAAGGAACGAAAAGAAGCTT
ELF5	TCTGCGATCCCCTGATGTCTG	SAA2	TACCATCAAAAGCCTCGCCA
ELF5	GAAGGATGCATTAGGCAGGA	SAA2	GGCTTCTCTCATGTCAGAGT
ELF5	AAAAGTGTGGCATTCTGGAA	SAA2	CCTGGGCTGCAGAAGTGATC
EMCN	CAAGCACTTCAGCAACCAGC	SAA2	AGCTTCGGCTGCTGACACTC
EMCN	ATTTGCAGCAGTAACAGCAC	SAMD12	GCAGGGTGATCAATACCCCG
EMCN	AAAGTAATAGGCACTGAGGG	SAMD12	GGTGAAGCTATCTAAACCGG
EMCN	AATGTTGTACACCAACAAC	SAMD12	GCAAATTGAAGGTGAAGGTG
EMCN	GAAAACACCTCACAGTCTCA	SAMD12	GTTGTAAGATGTGCTGCCGG
EMCN	GTCATTCTTCTGACATCAG	SAMD12	CCCGTGGATTCAAACCACAG
EMCN	TGGGTTTGTACCGAATGTGC	SAMD12	ACTGCAGGCAGAAGCTGAGA
EMCN	ACAACTGGAACAACCTCTAA	SAMD12	CGAGCGAATGGGGATTGCCC
EMCN	ACGCTCTCTTTATCAGACTG	SAMD12	GGATTGCCCAGGAGAACCTC
EMCN	CTCACTGGAATAAGACCGGC	SAMD12	AGGAACTCCCAAGCGACTGC
ENPP3	GCAGACAAGAATATCACCCA	SAMD12	AAGCTCTGAGAGAATGGCTG
ENPP3	CAGGAGGATAGAGGAAGCCG	SCD5	GGGAGAAGAAGAAGCCCCGG
ENPP3	GATGTGGCATGTAAAGACCG	SCD5	GGGCTCGAAAGCTCTGAGGG
ENPP3	GTTTCAGATGACTGTTTGAG	SCD5	ACAGCCAGAAATATCCTCAG
ENPP3	GAAGTGTCCCATTTGAAGAG	SCD5	ACCTGTGGCTCCACAAGCGA
ENPP3	GATTCTCTGGACATGCAGG	SCD5	AGTACTTGTGGTGGGCTCGG
ENPP3	GCACCAAACAATGGAACCCA	SCD5	GAAAGGGATCTTCCCCGCGT
ENPP3	GGTGAGGGATGATAAAGGGT	SCD5	GCCAAGGAAGAAATCCGTGC
ENPP3	GGAGAACTGCCGGTGTGATG	SCD5	GGCTTTGGGGATGAGCACCA
ENPP3	GACTATAAGAGTGTTTGCCA	SCD5	GGCCAGGAGGAAGCAGAAGT
EPHB6	TGAGGAACTCACCAGTGCAG	SCD5	GCCGCTCTGGGTGTGACAGC
EPHB6	CCAGTTAGGGAACAGAGTGG	SCRIB	GAGGTTCTCACAGTCCCCGA

EPHB6	CCAGCGTTTGAGGTGCCAGG	SCRIB	GGTGGTGGCAACAGCAGCGG
EPHB6	GGCTCATGCAGAGCCAGAGG	SCRIB	GCAGCAGCTCCTCCAGGCTG
EPHB6	CAGGCTGCACTGCAACGGGG	SCRIB	TGAGCGACAACGAGATCCAG
EPHB6	GGCCAGTTCCGACCCACCAG	SCRIB	CCAGCGGTTGCCTCCCGAGG
EPHB6	GTGCACCACAGGGACAGCAG	SCRIB	CGTGTCGGAAAACCGGCTGG
EPHB6	AGGGCTCAGCTGTGTACCGG	SCRIB	TGTCCCAGAACCTGCTGCGG
EPHB6	TGTGGGCAGACAGCGAGCGA	SCRIB	GGCGGTTGTCCCTCAAGGAG
EPHB6	GCTTCGCTGGGCAGCCCCAG	SCRIB	GCTGCACGTGCTGGACGTGG
EPHX1	GCAGCTGTCCTCCAAAGGTG	SCRIB	ACAGGGCCTTGAGATTGAGG
EPHX1	GGAATTCTACATTCAAGGAG	SEMA3F	CGGATCAGTACAACCTCCCGG
EPHX1	CGAAACGCTGTCCCAGGAGG	SEMA3F	GGAGGAGCTCATGCTGGAGG
EPHX1	GAAGCGCTGGGAGGAGATGA	SEMA3F	ATGTGCACCTATGTGAACCG
EPHX1	ACGTTTCCACCTTGAAAGGG	SEMA3F	TGAGCGACTCGAGTCAGGGA
EPHX1	TGAGAAGCCATAGCCAGGGA	SEMA3F	GGAGCACATTCTGAAGGCG
EPHX1	ACTGCCAGGGTTCAACTCGG	SEMA3F	GACCATGCGAATATCAGCCA
EPHX1	CTTGTAAGAGATCCTGGCGG	SEMA3F	AAGAGGGGCCCAACTACCAG
EPHX1	GAAAGGCCTGCACTTGAACA	SEMA3F	AAGATGCCCTACCCACGGCC
EPHX1	GGAGCTGCTGTACCCCGTCA	SEMA3F	GGACTTCATAGATGGCGTGA
EPN3	CAAGACGGGCTCCGAGCGGG	SEMA3F	AGGCCGTGTACCCTCTGCAG
EPN3	CGAGAAGGTCAAGCAGGTGA	SERPINA5	GAAGCACCAGGCACAAGAGG
EPN3	TGTAGTCCTCGCCGTAGCGG	SERPINA5	GGGGTGGTGGCGGTGAAGGG
EPN3	ATAGCGGGGTGACGAAGAGG	SERPINA5	GGGGAGAATGAACAAAGCCG
EPN3	GAGCCGGCAGGAGCACGAGA	SERPINA5	GGAGATGAAGAAGAGAGTCG
EPN3	GATGTCAGCCAAGTCCAGGA	SERPINA5	TCAGAGAAGGAGCTGCACAG
EPN3	AGGCCGAACACAGAGGCCAG	SERPINA5	GAACTCAACCAGCCCAGAGA
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EPN3	AGGGCTGCTGGGCTTCCCAG	SERPINA5	GACTGAGTGAGAAAACGCTG
EPN3	TGACCTGACCTTCAACACAG	SERPINA5	CCTCCATGTAGGTGCCACGG
ERAP2	CCAGAGAGGTGAGATTGGGG	SERPINA5	CACAAAGATGCAGATCCTGG
ERAP2	GAGTGGCTTCACTTCATCAG	SH3GLB2	GGTGCTGCTCAGGGGTGGGG
ERAP2	GATCACATTAGAAGAACTCG	SH3GLB2	GAAGAAGCTGGCGTCGGACG
ERAP2	GTGCTCAGACAACAGCAGGA	SH3GLB2	GAAGATCTTGAGGCAGACAG
ERAP2	ATCTTCTCTGACTGAAGGG	SH3GLB2	CAGACGCGGCCAGTGAGCTG
ERAP2	ACAACGGTTCATCAAAGCAA	SH3GLB2	AGGGAAGACACTGATCAAGG
ERAP2	GCAACCTGGTCACAATGGAA	SH3GLB2	AGCGAGGCTGAAGAAGGCCA
ERAP2	CCGCCCTATCTCAAACCAG	SH3GLB2	GAGACTTGACGAACTCGTGG
ERAP2	AAAGGGGCAGCAACTAGCAT	SH3GLB2	TCTGCAAGTCCAGCATGTGG
ERAP2	GTGGCTACTGGGAAAGCCCC	SH3GLB2	TGTGGTGGCCACGAAGGTGC
ERBB2	GCACCGTGTGCACGAAGCAG	SH3GLB2	GGGCATCTTCTTACCCGGG
ERBB2	GAGACTGCTGCAGGAAACGG	SHC2	GGAGAGGCTGAGGCCATCAG
ERBB2	ACAATCCGCAGCCTCTGCAG	SHC2	ACAGAGCATCATCAGCACCG
ERBB2	GGAGGCCCCCTGTGACAGGGG	SHC2	ATTACTACAACAGCATCCCCG
ERBB2	GCAGCTCACAGATGCCACTG	SHC2	GAGTCCACTAGCCCCGCCAG
ERBB2	GAGTCCATGCCCAATCCCCGA	SHC2	GCCCATCCTACCTGTACCGG

ERBB2	CAGCAGAGGATGGAACACAG	SHC2	TACACTCCCCAGCTCCACCG
ERBB2	GGAGCTGCTCTGGCTGGAGC	SHC2	GAAGTTGCATGAGTGCTCAG
ERBB2	GCAGGTTCTTGAAGACGCTG	SHC2	GCATCCTCTCTGCCGCCCGG
ERBB2	TCACTGAGGGAACCTGGGCAG	SHC2	GCCATGACGCAGGGTCCGGG
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ERBB3	GAGGTGGGCAACTCTCAGGC	SIPA1L3	GCAGCGGCGGAACACCACCA
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ERBB4	GGTGAGCCTTCTCGTGGCGG	SIPA1L3	GGCCCCGAAGAAACCTGCGC
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ERBB4	CCGTTCTGGGGCAAACACGG	SIX1	GCGGTGGTCGCCTTCCACCG
ERBB4	GCTTTACCCGCAGGAAGGAG	SIX1	ACAGTTGCTGCAGTTTGGGG
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ERBB4	ATTGTGCTCCAGTTGAAAGG	SIX1	TGTGCGCGTACCACTCCCGC
ERBB4	GCAGGCACGCACACAAGAAC	SIX1	GAGGCAAAGAGACCGGGCCG
ERBB4	GTTTCCTGAACATACAGTCA	SIX1	GCCGTCGTTTGGCTTTACGC
ERBB4	GAGTCTTGTAACCTCTATGA	SIX1	TGCGAGGTTCTGCAGCAAGG
ESR1	GCCGTGTACAACCTACCCCGA	SIX1	ACTGCTTCAAGGAGAAGTCG
ESR1	GTAGACCTGCGCGTTGGCGG	SLAMF9	GAGAAGAAGCAGCCAAGGAA
ESR1	AGGAAAGGCGACAGCTGCGG	SLAMF9	GGAAATACCACCAGATGAAG
ESR1	GAAGTGGAATGATGAAAGG	SLAMF9	CCAGGAAGCTCACTTGGCCC
ESR1	GGGATACGAAAAGACCGAAG	SLAMF9	TGATATGCAGGGAATAGCTG
ESR1	GCGCCAGAGAGATGATGGGG	SLAMF9	GCCAAAGGAGACTCTGGAGA
ESR1	GAACCAGGGAAAATGTGTAG	SLAMF9	GGGACATCCAGCTACCATCA
ESR1	TGATCTTGTCCAGGACTCGG	SLAMF9	ATGGTGTGGATCCGAGGAAG
ESR1	TGTCCAGGTACACCTCGCCC	SLAMF9	GTCTTGCCACTGTGGTGCCA
ESR1	ACGCCGCAGCCTCAGACCCG	SLAMF9	GTGTGGATTGGTCACCATGA
EVL	ACAGAGTATCTGCCAAGCCC	SLAMF9	TCTTCTCCTGCTGCTCCAGG
EVL	GTAGACCATCACGGAAGCCC	SLC12A2	GAAACGGCTCTGGCTCGGGG
EVL	GCAGATGAAGGATGTCCTGG	SLC12A2	GGGGACACGGTGCTGAGCGA
EVL	GGGGTAGCCCCAGTGGGTGG	SLC12A2	GTGCGGCAGCTATGGAGCCG
EVL	GATGCCAACCGGGCAAGCAG	SLC12A2	GCAGCATCCTCCGGCACCGA
EVL	GGAGGAAATGAACAAACTGC	SLC12A2	GGTTTCCGAGAACGCCGGGC
EVL	GAGAGAGCTCCACAAGGTGA	SLC12A2	AACGTGAGCTTCCAGAACGG
EVL	GTGAAGGAGGAGATCATCGA	SLC12A2	GGTTGGATTTGCAGAAACCG
EVL	GAGGCCCCACTACATGAGACG	SLC12A2	AGTGTCATTAACGTTTCCAG
EVL	GGGGCTCTTTGCCACAGACG	SLC12A2	ATCAAGCCAAATATCAGCGA

F12	ACTTTGATCAGGACCAGCGA	SLC12A2	CGAGCCGGCTAAAGGCAGCG
F12	ACAGCCCCTGCCAGAAAGGA	SLC13A3	GGAGGGCAAGATGCCCATGA
F12	GGTGTGTGGACAGAGACAG	SLC13A3	CCACATGGACAAGAACGAGG
F12	ACAGTGCCAGACCCCAACCC	SLC13A3	GGGAAGCATCATGGCAGTGG
F12	ATGAAGCCTAGGGGACACCG	SLC13A3	TTAAAGCAAAGACCACCCTG
F12	AGGAACGGCCCACTGAGCTG	SLC13A3	GAACCTCTGTCTCCCCAGGG
F12	ACTGTGGCCCCAGTACAGCG	SLC13A3	GAGTCAGCCGGCAGATCCAG
F12	CGGCCGTCAGCACCCAGCAG	SLC13A3	AATACTGGCTGAGTAGGGGA
F12	GGTGGTACTGGAAGGGGAAG	SLC13A3	GGGAAGAATACCAGAACCTG
F12	ACAAATGTACCCACAAGGGC	SLC13A3	GGACGGGAAGAAGAACAAGA
F2RL1	GCAGCCTCTCTCTCTGCAG	SLC13A3	GATGAGCAGCACAGCCAGGG
F2RL1	GAGGATGCGGAGCCCCAGCG	SLC16A6	GAAGTGCCTGATGGAGGATG
F2RL1	AGAGGCTGCTAGCAGGATGG	SLC16A6	GCTACTTGTCAGCACCGGGA
F2RL1	GCCAGGTTTCTCACCTTGGA	SLC16A6	AAATGTCTTGATGATGCCGT
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F2RL1	GACAGAGAGGAGGTCAGCCA	SLC16A6	AACCTCTTGTGAGAAGGAGG
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F2RL1	TGACCTGCCTCAGTGTGCAG	SLC16A6	CCATTGCAGAAGTTTTCGGA
F2RL1	AATCAGCAGCCATATTGCCA	SLC16A6	GGTGTCCGAAACGATTGCTC
F2RL1	TGGGAACAGAAAGACCCCAA	SLC16A6	CTTACCAGAGATGATGCCGA
FABP7	GGGAAATGTGACCAAACCAA	SLC16A6	GCTTGCTGAGGATGATGTCTG
FABP7	ACAGTTTCTATCATCTGCAG	SLC26A9	GAAGGACCGGACATACCCAG
FABP7	GGAAAGGGCAAGGATGGTGG	SLC26A9	AATCAGGATCTGCAGGCCGG
FABP7	GTTACATACAGAAATGGGA	SLC26A9	GATGAGAGCGAAGATGAGCG
FABP7	CGTGGGCTTTGCCACTAGGC	SLC26A9	GACCACAGGCGACACCGGGG
FABP7	CACGGAGATTAGTTTCCAGC	SLC26A9	CAACAAGCACGGCTACGACG
FABP7	CACATTTCCACCTGCCTAG	SLC26A9	GAATGAGGCCCACACAACAG
FABP7	TCTCAGCACATTCAAGAACA	SLC26A9	GAAGGTGATATAGGACACGC
FABP7	CATCAAACCTCTTCTCCCAGC	SLC26A9	GAGGGTGTGGAAGGTGACGA
FABP7	GAACAAGTTTGTCTCCATCC	SLC26A9	GTGTACAATGACATTAGCCA
FADS2	GTCGGCAGGCAGCATGGGGA	SLC26A9	CTATGTGGACACAGCAGCCA
FADS2	GAAGGGAGGGAACCAGGGCG	SLC27A2	GGAAGAAGTATGGGCAGCAG
FADS2	GCCAGTTCACCAATCAGCAG	SLC27A2	TGCGCAGCTACGGGAAGCGG
FADS2	GGAGGAGGAGGAAGAACACG	SLC27A2	CGAGACTCTCACCTACGCGC
FADS2	AGGGTGCCCTCTGCCAACTGG	SLC27A2	GGACCGGCGCAGCAATCAAG
FADS2	TACATGGGGATGAGCAGCGG	SLC27A2	GGAGACCTCTATTTCAACAG
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FADS2	ATAACCTGCGCACCGACAGG	SLC27A2	GGTGAAGCTGGGCTGTGCCA
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FAM150B	GCACCAGCAGCAGCCCCAGG	SLC27A2	GTATTTATGCAACTCACCAC
FAM150B	GCTGCGGAAGCACCACTCGG	SLC41A2	AGTGGTGGTCCAAGTAGTGG
FAM150B	CGGACGGACAGGCGCTGCTG	SLC41A2	GGAGCCTGTCTATAACAGCTA
FAM150B	AGGGCCTGCAGCTCCTCGGG	SLC41A2	AGTGACCCCAAAATTACCAA

FAM150B	GCCTTCGCCGAGCAGCGAG	SLC41A2	AGTGGGTTTTCTAGCAGCTG
FAM150B	GCTGGTGGTGGAACCTCGTCC	SLC41A2	GAATTGCCTGATGAACCCAA
FAM150B	TGTCAGTCCAGTGTGCATGG	SLC41A2	AGGGAACCTGGAAATGACAT
FAM150B	GGCCCTTGCTCCGCCGAG	SLC41A2	ATAATGGTTGGGGTTATCGT
FAM150B	AAATTGTTCTCGAGATCTG	SLC41A2	CTGGAATGCTATGTAAATGG
FAM150B	TAGACTATAAAAGATGCGCC	SLC41A2	AACAGTTCTCCACTCAGGCT
FAM196A	GCGAGGCACAGAATGAGCAG	SLC41A2	TGGATTCACCCATTGAAAAG
FAM196A	GAGGGCAGGTGCGTAAACGG	SLC4A11	ATTGAGAGACCCGAAAGCGA
FAM196A	CCTGGAGATGAAATACGCCC	SLC4A11	GGAGAAGGCGAGCACCGCGA
FAM196A	GGAATGGAACCAAGGCTG	SLC4A11	CAGGCCATTACCTTTTCGGG
FAM196A	CAACCAACACATGAACACAG	SLC4A11	GAAAAGCACTAAGACTGCGA
FAM196A	GGGAGGGCCAAGCAGGACCG	SLC4A11	CCTGGAGACCCGCACAGAGG
FAM196A	CAGGAGGGTGTTAAAACGG	SLC4A11	GTGGTCAGCAGAATCACCAA
FAM196A	GCCCGGCAGATGACGAGCGG	SLC4A11	GCCTCCTGGCAGGTGACGG
FAM196A	CAGGCCAGGCAGTTTCCGA	SLC4A11	GATGAGGAGGCTGAGCACGG
FAM196A	GGCGGGGTGTGAGTCTGCGA	SLC4A11	ACAGGATCTCTCGCACGAG
FAM198A	GGAGGTGGTGACAAAGCCA	SLC4A11	GAAGCCATGGGAGCTGATGA
FAM198A	GGAGCCTCTCTTCCACACAG	SLC7A2	ACATCGGGCAAAGGTCAGCG
FAM198A	GGAGAAGCCGTGCTTTGCCC	SLC7A2	GGTCCATGGTGGATAAGCAG
FAM198A	GGGACCTCAGGCATCCAGGG	SLC7A2	GGTTTATGTCTCGCTGGGG
FAM198A	CCAGGAGACACAGAGTGAGG	SLC7A2	GCCAGCCATCACTGAAGCCA
FAM198A	GACTGGTGGGCAACAAGCAG	SLC7A2	GTTGGAAGCACCCTTGGGGC
FAM198A	GAGTTGGCTGAGCCTGGGAG	SLC7A2	GAGGTGGCCAAGGCAGACTC
FAM198A	GCTGAACTTTCGGCTGCTGG	SLC7A2	GGAAGGACACCACGATGCTG
FAM198A	GAAAGCTGCGTGGCAAGAGG	SLC7A2	GCTGTGTTGGCAGAAGGGAG
FAM198A	GCATCCAGGGAGGGTGAGGA	SLC7A2	AGACACTCAGGCCCAACACG
FAM3B	CAGATGGGCAGGGAGTCCAG	SLC7A2	GAAACAGCGCGAGGAGAGCG
FAM3B	GCCTACAGGTTACTCAGCGG	SLC9A2	GTTCAGCAAGGTCTCCGCCA
FAM3B	AAGATGCGCCATTGGCTGG	SLC9A2	GAAGTACTTGATGGTCGTGT
FAM3B	GCATAGGTGTCAGATGGGCA	SLC9A2	GGCCAGGGTGAAGCAGACGA
FAM3B	CAGCTGGGAAATGTTGCCAG	SLC9A2	TTTGCAGAAAGCATTAGGA
FAM3B	GCGCACTCACCACCAGCCAA	SLC9A2	GGGTAATCCAGCGTAAACAC
FAM3B	CATAGGTCACCATGAAGAGC	SLC9A2	ATAGCCGGCATCCAGCACGA
FAM3B	AAGAATGCCATAGAAGCACT	SLC9A2	GGAGCAAAGTGATGTCGCTG
FAM3B	AGACTTATGGGAGAACAGCT	SLC9A2	AAGACAGCAAGCACAGCCAC
FAM3B	CCTATGACGACGGAAGCACA	SLC9A2	GCAGGGACTCTCAAAGACC
FAM63A	GCAGTTCTTGAGACCACCG	SLC9A2	GCTGAATGATGCAGTAACAG
FAM63A	GTGGATCAACAAGCCAGCCA	SLC9A3R1	GAACGGCGAAAACGTGGAGA
FAM63A	GTAGGTCAGCTGGGCCGCGG	SLC9A3R1	GAAGGAGACCCACCAGCAGG
FAM63A	AAGGGGCCCTGGAGCAGAAGG	SLC9A3R1	GCACGGCGTTGAGTGCGGCG
FAM63A	CCTGGGGCTTGATGGACAGG	SLC9A3R1	GAGCCCTGAAGCCTCAGCCG
FAM63A	ACTGAGTTACAACCAGCTGG	SLC9A3R1	CGAGATGAGCGCGGACGCAG
FAM63A	GCAACAGCCACGAGGCCCGC	SLC9A3R1	GAGAAGGGTCCGAACGGCTA
FAM63A	GAAGTCCCTCTGACTTCTCC	SLC9A3R1	GCTACGGCTTCCACCTGCAC

FAM63A	GCAGAAGGAAGTGATCACAT	SLC9A3R1	GTTGGGCCAGTACATCCGGC
FAM63A	GTGCTGCCTAAACTGGCCAC	SLC9A3R1	GCTGGTGGTCGACCCCGAGA
FAM84B	CCATCTGGCCCCCTGAGGCGG	SLC9A3R1	GGTGAACGGGGTCTGCATGG
FAM84B	GGTGCACCTGCACCGGCTGG	SLC01B1	AAGTGGTCCACCAACAAGT
FAM84B	GGAGGAGGACGGAGAGGCAG	SLC01B1	GGACTAACCATGACCTATGA
FAM84B	CGATCCGCGGCTGCACGAGG	SLC01B1	AGGAATCTGGGTCATACATG
FAM84B	CTACCAGAAGAGCTTCGCGC	SLC01B1	CCAACAAGTGTGGCACACGT
FAM84B	ATATGTGGGTAAC TTCCAGG	SLC01B1	GGAGACTCCCATAGTACCAT
FAM84B	GGAGGAGGGCGACAGCAACG	SLC01B1	TCAATGTAAGAAAGCCCCAA
FAM84B	CAGCGTGATGGGCAACCAGG	SLC01B1	GTGCTCGTATAACCATTGAG
FAM84B	AAGTTACAAGGAAGTTCCCA	SLC01B1	TAGAGCATCACCTGAGATAG
FAM84B	ATGTAGGAGACCCCAATGCG	SLC01B1	GCAATGATTGGTCCAATCAT
FAR1	GCAGCACTAATCCTTTCCAC	SLC01B1	TCCAATCATTGGCTTTACCC
FAR1	AACCGGTAGCTCCTGTGAGG	SLIT2	TGAGTGTACAGACCAACCCG
FAR1	ACAGACACCACAAGAGCGAG	SLIT2	GAGAGGCCATAATGTAGCCG
FAR1	CAACTGGCACCAACAATCGA	SLIT2	GCAACTCAGGAAACAGCTGA
FAR1	AACTCGTCTTCACAAAGCTA	SLIT2	ATGGTGAGAAAGCTCCAGGA
FAR1	TACAGGAACAAGATCTGCAA	SLIT2	ACTGTGATTGTAACATGCAG
FAR1	TCATACCAACTTCACCCAG	SLIT2	GGAAGTTGCCACTTAAAGGA
FAR1	GAGAGGATTCTCTTGAAAG	SLIT2	ACAGATGTGACTGCACACCA
FAR1	GTTTTGGTGAGGCAGAAAGC	SLIT2	TATACGTGCATATGCCCCGA
FAR1	CGAGTGGAAGAAGTCCTTAG	SLIT2	TGAGCTGCAGGACTTCCAGA
FBLN1	AGGCCGCCGAGCAGCAGCAG	SLIT2	GCTGGCGATCCTGAACAAGG
FBLN1	GGAGGAGCTGCACTGTGCCA	SLITRK6	GTGGTGGTAAAAGTTGGAGG
FBLN1	AGAATCCTGCATCAACACAG	SLITRK6	CACATGACAACATGAAGCTG
FBLN1	TCTGACAGATAAAATCGGGG	SLITRK6	GAAGTTGTTTCAGGAGGCCA
FBLN1	CTTACGTGGCTGCGGAGCGG	SLITRK6	TCACCAATTATAGACTGTGG
FBLN1	CCGCACAGCAGGCCTCCAGG	SLITRK6	GGGTAGTTTTAGAATGGACG
FBLN1	GTGCTGCCACAGCCAGCTGG	SLITRK6	GGTCACAGGAGCAGTCCCAG
FBLN1	TAAGATCATTGAGGTTGAGG	SLITRK6	ACAGCACATGGTGAGCCCCA
FBLN1	GACTGGCTATGAGCTCACAG	SLITRK6	AGATGCTTTGGACCAAAGGA
FBLN1	ACAGAGGACAATAGCTGCAA	SLITRK6	TCAGCTCCAGCCTGATATGG
FBN1	GGGCAGGACACATCTCACAG	SLITRK6	GAGCCTCTGGATGAGAGCAC
FBN1	TACGAACTGGACAGAAGCGG	SNRPN	CCAGCTGCCCTACCAACCCC
FBN1	GTCCTACACGAGCCATGGGG	SNRPN	AGGGCCTGCCAATCCAGCAG
FBN1	AGTCGGGCCAAGAGAAGAGG	SNRPN	GTAATGACTCCACAGGGAAG
FBN1	TATTTGGAATGAAGCCACGG	SNRPN	GGGGTTGCTCTGCCGACGGG
FBN1	GCATCTGGTACCATCTGGAG	SNRPN	CCACTTGCTGGAGCTGCTGG
FBN1	GGAGGAATGGGGCCAAGGGG	SNRPN	GCTGCTGGAGGCCCTGGGGT
FBN1	GGAGGAACAGGGGAGAACTGG	SNRPN	GCTGGTAGAGGAGTACCAGC
FBN1	TTAGTGACAGCACCAAACAA	SNRPN	GCTACAGTGCCTCTTCCCTG
FBN1	GGAATGACGTCAGCAGGCAG	SNRPN	ACACAGTACCCACCAGGACG
FBN2	GCTGTGCACAAGAGCTCCCG	SNRPN	GTTTCAGACTGGCATTGCTC
FBN2	GGAAGTTCCAGGAACGGGG	SORBS2	CCAGTGACTTCAGGAAGCGG

FBN2	GCGGACCGAACCTGTTGCGG	SORBS2	GGATCCTCCAGACAGAAAAG
FBN2	AGTGTGAGATGCATGAATGG	SORBS2	GAAGCCTGGAAAGACCCATG
FBN2	ATGAATGCCAGGCTATCCCA	SORBS2	GAGGAAGAGCGAGCCTGCAG
FBN2	GGAGGAATTCCAGGGAGTGC	SORBS2	AGTGCAGAGCAGGACTAGCCC
FBN2	AATGTCATGCTGGATTCCAG	SORBS2	ACATGGGGAGAAGTGCACCA
FBN2	GTCCTGAACACATACCCCTGG	SORBS2	GAAGAACACAAAAGGTGCTG
FBN2	GGGGCCTGCAGAAACAACCT	SORBS2	TGAGTAAACACAGGACGCTG
FBN2	GGTTAGCAAAGCCAGCCCCG	SORBS2	GTGACTGAGCACTGTAGGGT
FBP1	GACCCGCTTCGTCATGGAGG	SORBS2	CGATCTCTTGGTCGAAGCGG
FBP1	GCAACCAGGCCGGAACCTGG	SOX10	GTAGTGGGCCTGGATGGCGG
FBP1	GGATGTACTCAGTGACGGCA	SOX10	GGACCACCGGCACCCAGGAG
FBP1	GCGATGAACATCAGCCACCA	SOX10	GGAGGAGCAGGACCTATCGG
FBP1	GGGTCAACTCGCCCGTGCCG	SOX10	GAGGTGGAGCTGAGCCCCGT
FBP1	CAAGAAGAGCCCCAATGGAA	SOX10	GAAGGAGCAGCAGGACGGCG
FBP1	GCAGTTGACCCACAGTCCA	SOX10	TGTGGGCTCAGGCAGCGCGC
FBP1	CACCAAAATGAACTCCCCGA	SOX10	CAAGCGCCCCCTTCATCGAGG
FBP1	AGTCAAAGCCATCTCTTCGG	SOX10	CAGGCGGCGGAAGAACGGGA
FBP1	CTTGCGCACCGCCGAAGAGA	SOX10	GCCGTTGACGCGCACGGGCA
FCGR3B	GCTGCCACAGTCAACGACAG	SOX10	GCAGCACAAGAAAGACCACC
FCGR3B	ATGGTACAGCGTGCTTGAGA	SOX13	TGTGGGCCAAGGATGAGCGG
FCGR3B	AAAGCCCACTCAAAGATAG	SOX13	GGAGTTGTGCATGTCTGGGA
FCGR3B	CAGGTGACAGAGATGGGTGG	SOX13	GGGGTCAGCACTATCCTGGG
FCGR3B	ACCAAGCCGACTAGACAGGA	SOX13	GGAGCCCCTGAAATTCCTCT
FCGR3B	ATAGCGGCTCCTACTTCTGC	SOX13	GCAGGACTGTAGCTCTCCAG
FCGR3B	TGAGAACCTCATCTCAAGCC	SOX13	GGGCTGTGCAGCAGCTGCAG
FCGR3B	AGGTGGAGAGAATGATGAGA	SOX13	GTAGAGGGCGGTACCTGCAG
FCGR3B	TGGGTGGAGGGACTGGGGAA	SOX13	GCTGCTGCACAGCCACAGTG
FCGR3B	GCTTGGTCCCTTTAGGGCTC	SOX13	GAAACAGCAGCCACATCAAG
FCN2	GGAGAGCCCAGGCCATGCCC	SOX13	CTGACTACAAGTACAAGCCG
FCN2	GCAGGCACCAATGGAAAGAG	SPAG16	CAGAGATGGCTGCTCAGCGA
FCN2	GCAAGGACCTGCTAGACCGA	SPAG16	GAGGGTCCTGGAAGAGGCGT
FCN2	GATGGAGCTGGACAGAGCTG	SPAG16	CATGGGTTTGACGGCAGCCG
FCN2	CAGGAAAGAGAGCAGCAGGG	SPAG16	GATGCCCAGCTCCGCCGTGA
FCN2	GGTGGTCCTGCCTTCCCAGG	SPAG16	GACAATTTTAGCATCCCAGA
FCN2	GTCACCTGTCAGGCACGGCT	SPAG16	TCTGGCAAAAGCAATTCAGA
FCN2	GACTGGGCCACGTACAAGCA	SPAG16	GTGACTGAACTTAGAACTGT
FCN2	GCAGGGCTTCGGCAGTCGGC	SPAG16	AATTCAGATGGCCCAAGAAC
FCN2	AAGACCAGAAGAGATGGAGC	SPAG16	TCAGGTACTGCATGCTTTGA
FGF13	GTA ACTATAACCTTAAGCTG	SPAG16	GAAACACCACACTTTACTGA
FGF13	CATTGATGGCACCAAAGATG	SPINK5	GGGCAGAAGCACTGACACTG
FGF13	CTACCACTTGACAGCTGCAGG	SPINK5	GCTGCAGGACATGGTTCCAG
FGF13	GCCACCACTCGCAGACCCAC	SPINK5	GACTGGATCAGAATCAGGGA
FGF13	TTAGGCAGAAAATGAGCTGC	SPINK5	GCATTTAGCAAGAGCTCCCA
FGF13	GTACTTGGAATGAACAGTG	SPINK5	AGAGAGAATGACCCCATCCA

FGF13	CGTCAGCAGCAGTCAGGCCG	SPINK5	GGTGGACACTCACAACACAC
FGF13	CAGGCGGATGGAACCATTGA	SPINK5	ACATGGAGCAGGTGTTGCCG
FGF13	TCTGTTTAACCTCATCCCTG	SPINK5	GAAGATCAGAGAAATGCTGC
FGF13	ACAGCTTGTTTGAACCTCT	SPINK5	GGTTCCAGTGGTGGTGGAGG
FGFR1	GTTGCCCCGCAACAAAACAG	SPINK5	CAAGCCCTCAAATAATGCAA
FGFR1	CCAGTGGCTAAAGCACATCG	SPRY1	GGAGTACTGCATGTCCCAGG
FGFR1	CCAAAGCAGCCCTCTCCCAG	SPRY1	GCAGGTCTTTTCACCACCGA
FGFR1	CAACCCCAGCCACAACCCAG	SPRY1	AGTACTCCCAAGTAATGCCA
FGFR1	GGATGTCCAATATGGAGCTA	SPRY1	GGTTTACCCTGACCCCGGGA
FGFR1	TAATACCACCGACAAAGAGA	SPRY1	GCTGGCTGCACTTCCAGTGC
FGFR1	ATGATGATCTCCAGGTACAG	SPRY1	CCCCAAAATCAACATGGCAG
FGFR1	TGGGACTCCCATGCTAGCAG	SPRY1	GGAGGATAACAGAGTAAGCA
FGFR1	GGGAGTACCTGCAGGCCCGG	SPRY1	TATGACTGGATCCATCGCCC
FGFR1	GGAGTATCTGGCCTCCAAGA	SPRY1	CTGGAGAGCTGCCCCCTCCCG
FGFR3	GGGAGATGACGAAGACGGGG	SPRY1	GGCAGCAATGAATACACAGA
FGFR3	GCTGCCGGCCAACCAGACGG	SQLE	ACATTAGAGGAGAAATGCCA
FGFR3	CCAGTGGCTCAAGCACGTGG	SQLE	ATGAGGCATCCACTTACTGG
FGFR3	GAGCAGTTGGTCTTCGGCAG	SQLE	AGAGCACCAGGCCCAGCGAG
FGFR3	GGAGGGAGTGGGGTTGCCAG	SQLE	AGAAAATAAGGAGCAGCTCG
FGFR3	GCACCGGCCCATCCTGCAGG	SQLE	GCAGCTGTGCTTTCCAGAGA
FGFR3	CGTCACTGTACACCTTGCA	SQLE	GGAGAATTCTGCAGCCGGG
FGFR3	ACGCACAGCCCCACATCCAG	SQLE	CGATTGCTTTGCAGATACAG
FGFR3	GGGAGTTTCTGCGGGCGCGG	SQLE	GAAAACAATCAAGTGCAGAG
FGFR3	GAAGATCGCAGACTTCGGGC	SQLE	AATGCCCAGAAAAGTCCACA
FIBCD1	GGAAGATGGTCAACGACCGG	SQLE	TGAGAGAATATCCGAGAAGA
FIBCD1	CCTGAACCACGCCACGCGC	SRD5A1	CAGCTGGTCTGTCCAAGGCG
FIBCD1	GGAGTGCATGGGGCTGCGGA	SRD5A1	GCACTGCAGGTAGGCGAGCG
FIBCD1	AGGACGTCCAGACAGTCTCG	SRD5A1	TGTGGCTGGGCAGCGCGTGG
FIBCD1	GACATGCGCACGGACGGCGG	SRD5A1	CAGCTCCTGCACCACCCAGG
FIBCD1	GCAGGTGTTTCAGCGCCGGG	SRD5A1	GTAGAGCGGCAGGGCCAGCG
FIBCD1	GTTTCAGGAAGAGCACGGCAC	SRD5A1	GACGTTACCGATGCCCGTAG
FIBCD1	GCCCCAGTGCTGACGACAGG	SRD5A1	GGAGAAATCATGGAGTGGTG
FIBCD1	GGCGTGCGAAGCTGTGCGTG	SRD5A1	CCTGGCGATGGCAACGGCGA
FIBCD1	TGTCAGCGCCTGCAGACCG	SRD5A1	GGCACTCGGAGCCTGTGGCT
FIGF	TGGAGGTGGCCAGTGAGCTG	SRD5A1	TTGGGCGCGCTGCGGAGACG
FIGF	AATGTACAGAGAGTGGGTAG	SSPO	AAGGTGCCTCACCTCCCTGG
FIGF	GTTGTACGTCCAGCTGGTGC	SSPO	GGTGACTATGGGACCCGAGG
FIGF	GCGATCATCTCAGTCCACAT	SSPO	GCAGTGTTGACCGCATGCTG
FIGF	GAATTACTCACTCTGAGGAC	SSPO	CAACACAGGACACCTCCCCG
FIGF	GTGAACGTGTTCCGATGTGG	SSPO	GGAGAGCCTGGAACCCGGAG
FIGF	ATAATTGAGTATGGATGGCG	SSPO	AGGGAGGACGAGCACAGCGC
FIGF	ATGTGTGGCCACAGAGAGC	SSPO	GCAGAGGCACGGGCATGAGG
FIGF	GAAAGTTGCCGCAAACCTAG	SSPO	GGTGCTTACCCTCAGTGCA
FIGF	TAGAGAAACGTGCGTGGAGG	SSPO	CAGGAGGCACAGGTGGCCGA

FM01	GTGTTCTCAGCACCACCGG	SSPO	GTAGTGGAAGCCCGACCAGG
FM01	GTACCTGGAAAGGAATCCAG	ST3GAL5	TGTGTGGTTATTGGAAGCGG
FM01	GATGAGGCCAATAATGGCCA	ST3GAL5	CGGGTGTACCATTGCAGGGA
FM01	GCTGACCCCAGCTCCCACAA	ST3GAL5	AACTTCCGGAACCCAAAAGG
FM01	GATGCTGTTCATGGTCTGCAC	ST3GAL5	GCTCTGGCAAGAGTTCCAAG
FM01	CATCAGGCCAAGCATAAAAAG	ST3GAL5	GAGCTCAAAGCAAGATGAGA
FM01	CTACAGACTCATCAAGGAAG	ST3GAL5	ATTTGAGCACAGGTATAGCG
FM01	GTACAGGAACATGTTGAAGA	ST3GAL5	ACTGAGGCTCTGAGTACTGA
FM01	TGTCTCTGGCCAATGGGAGG	ST3GAL5	CGGCCCCAGAACCTTGACTG
FM01	GAGAGTCCTTGTGATTGGAA	ST3GAL5	GGAAGCGGAGGAATACTGCA
FRAS1	GAAGTTCTCCACATTAGCAG	ST3GAL5	GTAAACAGTGCACCAGTTG
FRAS1	GTATTGCCTCATCATTCCGA	ST6GALNAC2	GCTGTATGGGGCTCCCGCGC
FRAS1	GGAGTCCTCAAAACACACTC	ST6GALNAC2	ACACCGGATACACTTTGGAG
FRAS1	GCACACACTACATGGAGAAG	ST6GALNAC2	GCCAGAAGAACGACCCGCGC
FRAS1	TGGTGTCCACATGACAGCGG	ST6GALNAC2	TGTACTTCTCGCGGTTGCAG
FRAS1	GGCACTCACACACCTTGCAA	ST6GALNAC2	CAGGCGGTCCCAGAGCGCTG
FRAS1	AGTGTGCCCCACTGGACATGG	ST6GALNAC2	GCCGTTTCTGAGAGGCTCAGG
FRAS1	GGATGGTGTGTGCACAGCTG	ST6GALNAC2	TGGAGAGATTGAACAGGCCA
FRAS1	GGAGATCAGCTGCACAGTGC	ST6GALNAC2	ATTCTGAATGGGTCCCGCCA
FRAS1	AAGGGCAGTCAGGAACACAG	ST6GALNAC2	CAGGTGAAGCAGGTGTCGGC
GABRE	GGAGGATCAATAAGATGCCT	ST6GALNAC2	AAAGCCCCGTATGGCTGGCG
GABRE	GAGAGGAGCTGATTTTCCAG	ST8SIA6	CCGGCTGTGCAGGATTCTGG
GABRE	GATCTCAACAGTGACCACAG	ST8SIA6	GACTAATATGAGTTACGAGG
GABRE	TATGACCACAACTGCGCCC	ST8SIA6	GGAGCGTCTCAGCGCTGCG
GABRE	GAAATAATCACAACCCAGT	ST8SIA6	AGGGTAGTCCACAAAAGGCT
GABRE	GGAAACCCAGGAGAGCATCG	ST8SIA6	CCTGTGGCTCAGGATGCGGC
GABRE	GCTGTGATATAGGAGACACG	ST8SIA6	GGTGGGTGGGTTACCTGGCG
GABRE	GAAGCAGAAGACGAAGCAGA	ST8SIA6	TGAGAAGTCGCTCCAAGTGA
GABRE	TGGAGACTCACCTCGACTGG	ST8SIA6	GATTCTGGTGGAGGAAAGCA
GABRE	GATTTTCCAGAGGCTGGGGC	ST8SIA6	GAAAGCAGGGAGGCCACCCA
GATA3	GGTAGGGATCCATGAAGCAG	ST8SIA6	GTTTTGAACAGCATCACAGC
GATA3	GGGGTGGTGGGTCGACGAGG	STARD10	GCGGCCTCTACAGAGCCCCA
GATA3	GCTGCCCCGTTGAGCACGGCG	STARD10	CCATGGGGAGCCAGGAGCGG
GATA3	GCGCCGCGTCCATGTAGGAG	STARD10	GCTCGGACCAAGTCTTTCCG
GATA3	GCAGTACCCGCTGCCGGAGG	STARD10	ACTCCCCATGGAGAAGCTGG
GATA3	GAGCCTGGGGTGGACAGCGA	STARD10	TGCGGTACTCAATGTCGTGT
GATA3	GGGCAACCTCGACCCCACTG	STARD10	ATACCCACCTCGGAAAGACT
GATA3	GCTTGGGCTTAATGAGGGGC	STARD10	CCGGTCAGAGTGTGAGGCTG
GATA3	GGTGGTCTGACAGTTCGCAC	STARD10	TCGGACGCTGCACAAGATCA
GATA3	AGAAGGGGCTGAGATTCCAG	STARD10	CGTCAGCGTTGACTGTCAAG
GEM	TAGCAGAATGGCGGTTGCGG	STARD10	ATCCCCAGAAATACCCACCT
GEM	GCTGCATGCCCACAGTGCCC	STC1	GAGCCCCAGGAAATCCCGAG
GEM	AGACCGAGCGAGCTTCGAGA	STC1	GGAGGTGCTCCACTTTCCAA
GEM	GCTGCGAATCCAGCTCCGCA	STC1	GAACCCTGAAGCCATCACTG

GEM	AATAATGTCACCATGCGCCA	STC1	TGCTTCTGCAACCCATGAGG
GEM	GGAGCATCCCAGCTGATGGC	STC1	CGAGTGGCGGCTCAAAACTC
GEM	AGTCAGAGGACCAGCTTCGG	STC1	CCGAATGGCGAGGAAGACCT
GEM	AGGGAACACCTACTACCGAG	STC1	CAGCTGGACGACCTCAGTGA
GEM	TGCAGCCACAGCAGCAGCGC	STC1	AGAATGACTCTGTGAGCCCC
GEM	GGTTGCGGTGGCTGTACTGG	STC1	AGTGCTCTACAGGTGGGCTG
GJB1	GAGGATGATGCAGATGCCAG	STC1	CATCCCATCTGTGTCACAGG
GJB1	GGCATCAGCAGGCCGAGCAG	STC2	GACGCCACCAACCCACCCGA
GJB1	GCAGGGACCACAGCCGCACA	STC2	GGTGGCCAACACCAAAGCCA
GJB1	GGAGGAGGTGAAGAGGCACA	STC2	GAACCTGTGCCGAGAGCGT
GJB1	AGACGGCCTCAAACAACAGC	STC2	AAATGGTGTCCAGTTGCAG
GJB1	GCCGCACCATGGCATAGCCA	STC2	ATGACTTTTCTGCACAACGC
GJB1	GCACTTGACCAGCCGCACCA	STC2	GGCTGCCCAGGAGAACACCC
GJB1	AAGGTGGATTGGAGCGGCGC	STC2	GCAGCAGCAAGTCCTTGAAA
GJB1	TGTATTCAAGGTGAGAGGCGG	STC2	GGCCACCTTTGACCCGGCGC
GJB1	GGTTTGTACACCTTGCTCAG	STC2	CTGTCTTGGGGACCCTCGGG
GLYATL1	GAATATCTTCCGTAACCAAG	STC2	GGATCATCTCCACTATCACC
GLYATL1	GCCTCCAGTAAAAGCAAGCT	SULT1C3	GGAGTGGTCCATAATGCTGG
GLYATL1	GCATTCGAGAGCACTCCTCT	SULT1C3	GATGGTGGAATCAGATGTGA
GLYATL1	AACCATCTGATATTCAGGCC	SULT1C3	GGGCTGCAAAAGACATGCAC
GLYATL1	CTGTGTATCACATCAATCAC	SULT1C3	CTATGTGGCCAGAAATCCCA
GLYATL1	TAAATGACAACTGGAAGCGA	SULT1C3	CAGCCCACCATCCTTTCACA
GLYATL1	AGTAGGAATGGCCTACAGCA	SULT1C3	TAGGACACCAGGCAATCCTT
GLYATL1	CAGCTGGGCATACTTAAAGT	SULT1C3	TATCCTCGTAGAAGAGGTAG
GLYATL1	CAGAATAAGAGACATCCAGC	SULT1C3	TAAGATCATCAGGCTTGGCT
GLYATL1	AGGCAACATGGCACGAGTGA	SULT1C3	CTACTACCACTTTCACAGGA
GLYATL2	TCAGGAGATGAAAGATGACC	SULT1C3	GGTGGGCAAAGTGGTATAGT
GLYATL2	GGTGAAGATGTGGTAAGTGT	SULT1E1	GAGGCAGGAAGAAGTTCAGG
GLYATL2	GACCTCAAGTAATGACAAGA	SULT1E1	GGAGAAATTCATGCAAGGAC
GLYATL2	GAGCATCCCTGAATCCATAA	SULT1E1	GAAGCCATCAGAGGAGCTTG
GLYATL2	GAGGCCGGGTAATGACGATC	SULT1E1	CTATCTTTGCCGGAATGCAA
GLYATL2	GACGATCTGGTAATCTGGCC	SULT1E1	GATCTATAAAGAGGGTGATG
GLYATL2	CAAAGCTCCTGACAAATTAG	SULT1E1	GTGGCTGGTCATCCAAATCC
GLYATL2	CATACTCCAATGTAATCAGC	SULT1E1	TTTCTCCACAACTCTGGAA
GLYATL2	GAGCAAACCTTTCAGATCCA	SULT1E1	TTTCTACGAAGACCTGAAAG
GLYATL2	CCAGCACCTCCATGTTGAAA	SULT1E1	CTTGAACGTTACCATTTCATG
GNAI1	AGAGATCTGAGCGGAAGAAG	SULT1E1	ATTGTCGCCCTTCATGAGAA
GNAI1	CTATCATTAGGGCTATGGGG	SUSD2	GACATGCTGGGCACTCGGGG
GNAI1	AGACTTTGGTGACTCAGCCC	SUSD2	GCAGGGAGGCATACCTGCTG
GNAI1	AAGTGGATTTCATTGCTTCGA	SUSD2	TCAGCTGCCCCAACTTCCTGG
GNAI1	AGCACTGAGTGACTACGACC	SUSD2	GAAGCGGCCGGAGTCAGCCC
GNAI1	CTCCAGCTAGCACAAAGAGT	SUSD2	CGTGTGCACCTACCACCCCG
GNAI1	CTAGCTGGAGCTGCTGAAGA	SUSD2	GCTGACCTGAGCCGTACCGG
GNAI1	CTGGATAGCATATAGTGAGA	SUSD2	GGCAGCAGTAATAGAAGCTG

GNAI1	TGAAGCTGGTTATTCAGAAG	SUSD2	GTGTGGGTCTCCGAAGGCGG
GNAI1	GGGAGGTTGAAGATAGACTT	SUSD2	ACCGCAGGCACGGAGACCCG
GPR160	GGTCTCCCAAAACATAAGCA	SUSD2	TGGCACTGGGCTGACCCGAG
GPR160	GATAGTTAACATCTAGGGGC	SUSD3	GCAGCAGGTGAGGAAGGCCA
GPR160	TCTCACAGTATAACTGGAGT	SUSD3	GGGGCAGCGGAACATGAGCA
GPR160	CAGTTGACAAATGGATCCAA	SUSD3	GCCCAGACCCCACCATCTGG
GPR160	GAGAAAACAGACAATGAGCT	SUSD3	GCGTGAAGAAGAGCAAGCGG
GPR160	AGCCATCTACCAAAGCCTGA	SUSD3	GGGTCACCACGCCTGCCCCA
GPR160	ATACAAGCTGTCAGGAAAAC	SUSD3	CAGGCACGTGCGCTAAGCTG
GPR160	GCTGGTTTGTGTTGACGTAAC	SUSD3	CGGAAGCACCATTTGCCACGA
GPR160	AATAAGCATTCTGTGCCTTC	SUSD3	GATGATGGCACAGCTCACAA
GPR160	AGTAGTAACTTCTTCCCAAC	SUSD3	GTGGTCCCAGCTGAAAGATG
GPX8	GAAAAGCCAAACACGCTGAAG	SUSD3	GAAAGATGAGGACTTGAGAG
GPX8	GGTTTCACTAGTTGTAAACG	SVIL	GATGCTGTGAGAAAGCGGGG
GPX8	ATGTTCCGGGCCCAGAGCAA	SVIL	GCTGTGGGTACCAAAGGAG
GPX8	GATTCTCCAAACTGATTGCA	SVIL	GGAAACACTGCAGGAAACAG
GPX8	TCTACTTCCTTGCTTGGGCG	SVIL	AGGCCGATCAAATGAAGAGG
GPX8	AAGGAACTGCACAAAGAGTT	SVIL	TGAGTCACCGTGGACACCGG
GPX8	ATCGGAGCCCCGCCAAGCA	SVIL	GTACCCCGGGACCGAGACGA
GPX8	AACTGCAAATACCTTTGCTC	SVIL	AAGAGCCGTACCCACATGG
GPX8	GCTTACCCGCTAAAATGTTC	SVIL	GTTCAGCAGCACCTCCGGGT
GPX8	GAAGTATCTTGTCAACCCTG	SVIL	GTCTCGCCCAGAGAAAGAGA
GRB7	GCCCACTCAGAGCCTCCCG	SVIL	GCCCATCACCACTGAAGAGG
GRB7	GGAGAGCTGCTAAGATGAGG	SYBU	GCAGCAGCCCATCATCCCCG
GRB7	GGAAACTTCGAGAGGAGGAG	SYBU	AAGAAGGTGCATAACTGGGA
GRB7	AGGGGTTGGGGATAGAGGGG	SYBU	GAGCAGGACTCACCTCATGA
GRB7	GGACTGCAGAGCTCAGGGAA	SYBU	CGACATATGGACCTCAGGAG
GRB7	GGCCTGCAGGTCTGTGGAGG	SYBU	CCAGTCGAGGTCTCATGGG
GRB7	GGAGGACCACGAGTCCGTGG	SYBU	GGAGCTTCGTACACAAGCC
GRB7	AGGGTCTCACCTTGAAGAGG	SYBU	GACAGAAGGTCCCTTTTCCCG
GRB7	GCATGGGCAGGCTGAGGCGG	SYBU	AGTGGAGTCAAATACTGCTC
GRB7	GGAACCAGAGTTGGGTGCGG	SYBU	AATGCTGCCTGTGCTGCTCG
GREB1	GAAGACGACACGCTTTGAAG	SYBU	AACTGGGATGGATATTGACA
GREB1	GGACCGCAGGGATGCCTCGA	SYCP2	GAAAGGATTTTAGATGCTGG
GREB1	GCAGAGGGTGCAGCTGGAAA	SYCP2	GCAGAGCTCGTCATTTGCAG
GREB1	GTACAGCATCCTTCAGGCAG	SYCP2	GTGAAGGAAGAGAGAAAACG
GREB1	AGGGTTTTGCCAGGCCGGGA	SYCP2	ATAACCAGGGAAACAAATGCG
GREB1	GGAGATGGTCCGGCAGGCTG	SYCP2	GCATGCTTGAGACAAAAGA
GREB1	GCACAAGGGACTCTAACCAA	SYCP2	CATGTGTTGCTGAAAAGCAC
GREB1	GGAAGTGAACAAGTACTGG	SYCP2	TATACCAGATTCACAGGCAG
GREB1	GCAGAGCTACCTAAAGCCGA	SYCP2	ATGGACAAGACAATTCCGGA
GREB1	GAATCTCCATCAGCTCCAGA	SYCP2	GGAAGCAGTTACTGTGCCAG
GSTO2	ACAGGTTCCACCAAAGAAGG	SYCP2	GGTGTTTTAGACAACATCTG
GSTO2	GCTCAAACCAGGGCCAGAGG	SYCP3	GAAAGATCTGAGTGGATCAG

GSTO2	ACATCCAGCCGCTCAAACCA	SYCP3	GAAGTGCAGAATATGCTGGA
GSTO2	CTTTGGCCTTGAGGACGAGG	SYCP3	ACTAGTTTTGAGAGAAGCCT
GSTO2	GGCGGGTCCCTGTGAGAATAG	SYCP3	GAAATCTGGGAAGCCGTCTG
GSTO2	GGACAGGAATGTGGCCAAAA	SYCP3	GTAAACTGATCTTCCACAGA
GSTO2	TGGATGATGCTTATCCAGGA	SYCP3	CTGCAGTCATTGAGAAACGT
GSTO2	CAGAACACCACCTTCTTTGG	SYCP3	CAGGAGTAGTTGAAGATATG
GSTO2	GGTTCTGCCCCATTCTCAC	SYCP3	AGGAAGAAAAGGTCTTCTGC
GSTO2	ATAGATCAGTTGACATTGGC	SYCP3	CATCTAAATATGGTGTCTCTC
GUCY1A3	GATGCCGGGAAGAATCAGGG	SYCP3	TTCTGACTTTGTTTCAGCAG
GUCY1A3	TGAGCAAGCCCACCAAGCCC	SYNGAP1	GAGTGGCTCATCCATCACGG
GUCY1A3	GATTTTCAGGAGTTCCAGTGG	SYNGAP1	GCAGGTGAAGGAGTACGAGG
GUCY1A3	GGGTGCCTCCAACCACCCCA	SYNGAP1	GCAGCGGCTCAGCCATGGCG
GUCY1A3	GCGAGGACTGGGGTTTGCTG	SYNGAP1	GAGGAGGAAGAGTGTCCCAG
GUCY1A3	GGAATCACCAGCGAGGACTG	SYNGAP1	AATGGATTGAGAATCTGCAG
GUCY1A3	GAACAAGCCCCGAGCTCAAGA	SYNGAP1	CATGCCAGGACAACAGCCGC
GUCY1A3	GTGAGGTTGCTCAGCAGCTG	SYNGAP1	GAAGTGGCGCCAGCCAGGG
GUCY1A3	AACGATGTCTGAGAAGAGCA	SYNGAP1	GTAACCCTGCCAACAGGCAG
GUCY1A3	GCAGAGCAAGCAGTTGCAGC	SYNGAP1	GGCTAGGTTTACCTCAAAGG
HBA1	ACCAACGTCAAGGCCGCCTG	SYNGAP1	CAGTGGACCCAGCTTCAGGA
HBA1	GCACGCTGGCGAGTATGGTG	SYT1	GGGTGGCAAAACCCTAGTGA
HBA1	CGCGCCGACCTTACCCCAGG	SYT1	ATTGCAATTAAGGCCACCG
HBA1	TGCCGACAAGACCAACGTCA	SYT1	CAGCAGTAGGTACGTAGCGA
HBA1	GACCAACGCCGTGGCGCACG	SYT1	GTCGCGACAGTGGTGACAGG
HBA1	GCACGCGCACAAGCTTCGGG	SYT1	TGGCAGAACAGTCGCGACAG
HBA1	CCGTGGCTCAGGTCGAAGTG	SYT1	GAGCCAGCCAGTCCTGGAGA
HBA1	AAGGCCGCTGGGGTAAGGT	SYT1	GCAAAGTGCTGAGAAGGAAG
HBA1	CGCTGGCGAGTATGGTGCGG	SYT1	GGTGAGCGAGAGTCACCATG
HBA1	GGTTAAGGGCCACGGCAAGA	SYT1	GCTGAAACTGGATTGACAGA
HBA2	CCGCACTTCGACCTGAGCCA	SYT1	GTACCATACTCGGAATTGGG
HBA2	ACCCCAGGCGGCCTTGACGT	SYT7	GACCATGTACCGGGACCCGG
HBA2	GTGCGGGAAGTAGGTCTTGG	SYT7	GGCACGCCAGACTCAGGGCG
HBA2	GGTAAGGTCGGCGCGCACGC	SYT7	GGAGTTGACGAGGTCTGAGA
HBA2	CACGGCGTTGGTCAGCGCGT	SYT7	GAGGAGGATGAGGCCACGA
HBA2	GAGGGAGCCTCACCTCTCCA	SYT7	GCAGGTAGATCTTGACGAAG
HBA2	CCTGCACGCGCACAAGCTTC	SYT7	CCGCAACGACCCCATTTGGGG
HBA2	GGCGCGCACGCTGGCGAGTA	SYT7	GATCTGAAGCCATGCAGCGA
HBA2	CTCAGGGCGGACAGCGCGTT	SYT7	GATGTACAAGGACAAGCGGG
HBA2	TCTGCCCAGGTTAAGGGCCA	SYT7	GACCAGCAGGACGTCGCGCG
HBB	AGTCTGCCGTTACTGCCCTG	SYT7	CCAGTTTGCGCTGACACCAG
HBB	AAGGTGAACGTGGATGAAGT	SYTL4	GAGGTGCAAGGTGTGCGCCA
HBB	ACAGTGCAGCTCACTCAGTG	SYTL4	AGAGTTGAAGAAAGCAACTG
HBB	CCTGTGGGGCAAGGTGAACG	SYTL4	AGGAGCGGCAGAAGGAGCCC
HBB	GTGTGGCAAAGGTGCCCTTG	SYTL4	GAAGTGCCAAAGCTGAAAAG
HBB	TCCCACCCTTAGGCTGCTGG	SYTL4	GAAGATGTGGTACATGAAAG

HBB	GGCTGCCTATCAGAAAGTGG	SYTL4	GAAGAAAGATCATTTCAGGAG
HBB	ACAGCTCCTGGGCAACGTGC	SYTL4	GAAAAGTGAAAGAGTGCAT
HBB	AGAATTCACCCCACCAAGTGC	SYTL4	GATGCCAAACTGAGAACTGC
HBB	ATAGGCAGCCTGCACTGGTG	SYTL4	GTGTGATGGCAAGCCAGTCG
HEXIM1	GACGCCCCGTCCAAGAAGAAG	SYTL4	TTTGGGACTCAAACGGCCC
HEXIM1	GGTGTCTGTCGGATTTGGCGG	TANC2	GTGGCCCAGCCAAACCGCCG
HEXIM1	GAAGTGCCTCTCGCGCATGG	TANC2	GAGCAGGGGCTACTGGCTGG
HEXIM1	GCCTGGGTCTGCAAGGGAGG	TANC2	TGGGTGGGAGTGTAGAGCAG
HEXIM1	GAATCTAGCTGCCTGAGAGA	TANC2	GGAACGCACAAAATATGCTG
HEXIM1	GGTTCCACTTCTGCCGGCGG	TANC2	GGTCTTGAACACAGGAACGA
HEXIM1	GACAGCAGCAGAGACAGCTG	TANC2	GCCACTGCCACATTTCAGGAG
HEXIM1	CATGGATGATCACGACCAGG	TANC2	GCTGTGCAAGAAACGGGCCA
HEXIM1	GGGGCAGCGATGGGATGGGA	TANC2	TTTGCTCTTGGAACAAGGGG
HEXIM1	ACGGCAGCGAGTTTCTGCAG	TANC2	CATGATGTCTGGCTTGGAGG
HEY2	GGAGCGAGAACAATTACTCG	TANC2	ACAGGATTTTGAATGGCGG
HEY2	GAAGATGCTTCAGGCAACAG	TBC1D24	GGAGTGGCTGAGTGGGGCGG
HEY2	CATGGACGAGACCATCGACG	TBC1D24	GAATGTCCCGGATCAGGCGC
HEY2	ATGGCAAGAAAGAAAAGGAG	TBC1D24	GGTGAACAAGTACTGCCAGG
HEY2	CGGAGGTCGTCTCCTCGCAG	TBC1D24	GGAGATCCAGCTCCTGCAGA
HEY2	CGGGATGAAGCGCCCCTGCG	TBC1D24	GCAGGGAGGAGAACAGCAGA
HEY2	CTCGTCCATGTCGCTCTCGG	TBC1D24	GCTCGGCAGCCATCAAGGGT
HEY2	GAAGCTGTGTGCAGCCGCGG	TBC1D24	CGAGTTCTGTGGACAACACGC
HEY2	GACACAAGCCGCACCCGCAG	TBC1D24	GCACAGGAGGATCTTGCGCA
HEY2	CACTTGCGCCACCCAGCGGG	TBC1D24	GGCGGGGCAGAAGGAGATGT
HMGCS2	GGAAGCAGGAAAGTATACAG	TBC1D24	GTGCAGCAGCAGGGCCACCA
HMGCS2	GGAGCGCATACAGCTCCCAT	TBC1D9	CATGTGGGTGAACCCGAGG
HMGCS2	AGGAGACACACACTTTCGGG	TBC1D9	TAGGCTGTTTGGGATGCCAG
HMGCS2	CAGGCGAGCAGGTGTGAGGG	TBC1D9	CAGATACTTACCTCACGGAG
HMGCS2	GTTTGGTCCACATATTGGGC	TBC1D9	GTATCGGCGGCGGTCTCCCG
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HMGCS2	GTTGGCAGCATTGAAGAGGG	TBC1D9	GCATCCCGGAGAGCATGCGT
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HMGCS2	GCAACTGACAAGAGCGGTGC	TBC1D9	GCTGCTTTATGCCAAAGAGG
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HOOK1	GAGAAGAATTGAGATTCTGG	TBC1D9	GAACCAAGACAGGGAGATGG
HOOK1	ATGAACTGGAAACTGAGCAG	TBX3	GACGCTGCCTCCCAACGGCG
HOOK1	AGGGGCAGCTTAGGCTGCGG	TBX3	GGAGCCCGAAGAAGAGGTGG
HOOK1	GATGTCAAACAGCTGACTAG	TBX3	CGAGGGTGAGAGCGACGCCG
HOOK1	AAGTTTTCACCTGCTTGCGA	TBX3	CAGGAGGGGACCCATGCCAG
HOOK1	GCTGACTAGTGGAGTTGCCA	TBX3	GTAGATTTATGTCCCAGCGA
HOOK1	GTTCTGTAAAGATTTCTGG	TBX3	GAAAAGGTGAGCCTTGACCG
HOOK1	TTGATGAAGAACTTGTGCCA	TBX3	GCACCCAGCCAGTTTGCCA
HOOK1	AACCGAATGTTTCAGATCCAG	TBX3	GGTGGAGGCCCCAGAAACCG
HOOK1	AGAATTGCAGCAGCAGATTG	TBX3	ATCCAGGCCCCGAGACACCGG

HOXA10	GAAGGGAGCCAGTTCGGCGG	TBX3	GTCAGCGCGGGGAAGAACGG
HOXA10	GTTGTGGGATAATTTGGCGA	TCAP	GGAGAACTGTGAGCGCCGGG
HOXA10	GGCGGTTACTACGCCCACGG	TCAP	GACACTGTCCACACGGCCCCG
HOXA10	GCTGGCTGGGGTGGTTGCGG	TCAP	GCTGAGCTGCGAGGTGTCTGG
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HOXA10	GAGATCGAAACCGCGCCCCG	TCAP	GACCCACACTCACCCCTCCT
HOXA10	ACGCTGGCTTGCGGCAGCGG	TCAP	GCAGGGGTGAAGATGGGCAG
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HOXA10	CAAGAAATGTCAGCCAGAAA	TCAP	CGGATGGGCATCCTCGGCCG
HOXA10	GGGCTCTTCCCCACGCTGGG	TCAP	GGTGGCGCCCATCTTGCCAG
HOXA5	AATGGCATGGATCTCAGCGT	TCAP	CCAGTGTGTGGACCGCCAGG
HOXA5	GGCAGCGACAGCCACCACGG	TESK2	GAAGAGTTTGAAGGAGGTGG
HOXA5	GATGTGGGTGCTGCCGGCGT	TESK2	GGAGATTGGGAAGACCCTGG
HOXA5	TGTGCAGCTTGCGCATCCAG	TESK2	GGGCTACACACCTGACATCG
HOXA5	GGCGCTGGCAGCGTAGCTGC	TESK2	GGGGAGTGAGAAGCTGGCCG
HOXA5	AACTCCCTAAGCAACTCCAG	TESK2	GGACTATCTTCCCCGCACAG
HOXA5	GGGGTAGATCTGGGGTTGGG	TESK2	ACAATTGCATGCACCTTACAG
HOXA5	GTAGCCGTAGCCGTACCTGC	TESK2	TGAGAATGGTTACTCTGCAG
HOXA5	GACTCGGCGAGCATGCACTC	TESK2	GACAGTCTCCCACCATGTGC
HOXA5	CTGGCTGTACCTGGGCTCGG	TESK2	AAGCTGCAGCCCACAGCCAG
HOXA7	GCTCCCAACTCACAGAGAAG	TESK2	TCAAGACGCTCCACACGTGG
HOXA7	ACAGAGAAGCGGCTACGGGG	TF	GGAGCTTCTCAACCAGGCCC
HOXA7	CCTACGACCAAAACATCCCC	TF	CCGGAAGATGAGGCTCGCCG
HOXA7	GGAGCAAAGGAGCAAGAAGT	TF	GCAACACTGGGACCATCGGA
HOXA7	GGCGCAGGGCAGGTTGCCGT	TF	AGGGTGGAGCAGCCACACCC
HOXA7	GTATAAGCCCGGAACGGTCG	TF	GCCATCCGGAATCTACGGGA
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HOXA7	TACCTGAAGACCGCATCCAG	TF	GGAGTCTTTCTTAGACCCAG
HOXA7	AACGGTCGAGGCGAAGGCGC	TF	CAATAACCTGAAGCCTGTGG
HOXA9	GCCGCGGATGAGCTGAGCGT	TF	GGACACAGTTGACACAGCTG
HOXA9	GTGGAACCCAGTGACGCGG	TFF1	AGAGGAGGCAATGGCCACCA
HOXA9	ATGGTGGTGGTACACCGCAG	TFF1	GAACAAGGTGATCTGCGCCC
HOXA9	GCTGGAGGGCAAGCCCGCGA	TFF1	GCCCTTATTTGCACACTGGG
HOXA9	AAAGTGTGAGTGTCAAGCGT	TFF1	GCACCAGGGGACCCACGAA
HOXA9	AATGCTGAGAATGAGAGCGG	TFF1	TATTAGGATAGAAGCACCAG
HOXA9	GTTGCCACAGGCCCCAGTGG	TFF1	ACTTTCAGAGACGTGTACAG
HOXA9	GAGCGTTGGCCGCTATGCGC	TFF1	AAAAGGCCATACCTTCTGGA
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HOXA9	GAACCGCTGTGCGCCAGAAG	TFF1	GTTTCGACGACACCGTTCTGT
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HOXC9	GTCCACGTAATAGTTACTGA	TFF3	GCTGTCCTCCAGCTCTGCTG
HOXC9	AAGGAGACGGCGCCGGACAG	TFF3	CGTGCCAGCCAAGGACAGGG
HOXC9	GCAGACACTGCCCTCGCCCCG	TFF3	TCTGGCAGCCATGACCACCG

HOXC9	CAAACCGCTGGGTCTGGCGG	TFF3	CCAGAGCGCTCTGCATGCTG
HOXC9	TTGGGCGCGAAGCTACAGGA	TFF3	CCCAAGGAGTGCAACAACCG
HOXC9	CGGCAGTGTTTCAGCACGTCG	TFF3	TGGAGTCAAAGCAGCAGCCC
HOXC9	ACGGACGACTGAGAGGGCAC	TFF3	CCAGGATCCCTGGAGTGCTT
HOXC9	CGGGAAGCTGGGGAAGGAGA	TFF3	GCCTTACCTGCTTCCTGCAG
HOXC9	ACTACATGTACGGCTCGCCC	TFF3	AGCTCTGCTGAGGAGTACGT
HPD	GGACACCACACACACCCTGG	TFF3	TTGGTGTTTCAAGCCCCTGC
HPD	GAAGGACATTGCGTTCGAGG	TGFB3	GATGTGGCCGAAGTCCAAGG
HPD	CATCCACGGACCAGAAGCGG	TGFB3	GGGTTGTGTCTGCACTGCGG
HPD	GGAATATGTGGACTATAACG	TGFB3	GGCCCTGCTGAACCTTGCCA
HPD	GGAGAACATTGATGCCCTGG	TGFB3	GGACAGAGAGAGGCTGACCG
HPD	GGAGACCGGTTCCCGGGAGG	TGFB3	CAGCACCCGGGAGCTGCTGG
HPD	CCATGTAATCAAACAAGGGA	TGFB3	GGAGGAGATGCATGGGGAGA
HPD	GCGCTCAACCCCTGGAACAA	TGFB3	GCTCTAAGCGGAATGAGCAG
HPD	GCACCTCACCTTTGTTCCAG	TGFB3	AATGAGGATGACCATGGCCG
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HPGD	AATCCATTGGCAATCAATGG	TGFB3	GACAGATCTTGAGCAAGCTC
HPGD	CATAGGCAGAGCCTTTGCAG	THSD4	CGGGAATCTCCACGACGCGG
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HPGD	GCTGGTCAGCCACATCGCAC	THSD4	GAAAGGGAGGAACGAGGAGA
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HPGD	AGTGGCGCTGGTGACCGGCG	THSD4	CCTGGCGGCACAGAACCTGG
HPGD	GCCTATGCCCTGAGCCGCGC	THSD4	GAAGTGTGTGAGCAACATTG
HPGD	TGGATGAACAGAGTCTTCTG	THSD4	GGGTCCGTTGTACATGGGG
HRSP12	TCAGCACCGCGAAAGCCCCA	THSD4	GAGCGGGACGCAACAGAGGG
HRSP12	GTAGGGTCCAATGGCCCCTG	TIAM1	GCCTCTCGCACAAGACGCGG
HRSP12	AGTGGACAGCTTGTGTCAGG	TIAM1	AAGGATGTTAATGCAGGCGA
HRSP12	GGTGAAATTCTGAAAGCTGC	TIAM1	CCTGTGGATCACCTTCCCCG
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HSD17B2	TGAGCAGGCAGACTGCACAG	TIAM1	AGGTGGAGTCAGCCACCCGG
HSD17B2	GGAAGCATGACACCGAGAAG	TMC5	CAGCAAATGAAGAAGCAGG
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HSD17B2	TAGGAGGGGGCCCCAATGGAA	TMC5	AATTGAGCTGAAGGATACGA

HSD17B2	GTTGCTTCCATCCAACCTGG	TMC5	AAGACGCTGAAGATCATTGG
HSD17B2	GCAAATACAAGAAGAGCTCA	TMC5	AATCCCCACATTTACTCCGG
HTRA3	GAGGTCGGGCACGTAGCCGC	TMC5	TGTTCTGGAAAGGAGAGAGG
HTRA3	ACACCAGGCAGCAGTTGCAG	TMEM100	GATGAAGACAACCACAGCAA
HTRA3	GGAGAAGATCGCACCCAGCCG	TMEM100	AGATGGAGATAATAGACCCA
HTRA3	GCGGCCTGGGGAGTTTGTGG	TMEM100	GGAGCAAGAAAGCCAAGAGA
HTRA3	GCATCGTCAGCACTGCCCAG	TMEM100	CAGCAAAGGGGATGATGCAG
HTRA3	CAGCAACCCGGACTTCCCAG	TMEM100	CGGCATCGTGGTCACCGCGG
HTRA3	AGCGAGGGCGAGCCCTGTGG	TMEM100	GGAGAGTCAAACAGCTCTCG
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HTRA3	GAAGAGCTCTATGTGGACCA	TMEM100	ATTGAAGCTGTAAGCCACCG
HTRA3	GGCACGTTGCGGCCAAACAG	TMEM100	TGTGCTGGAAAGTGAGACAA
ICA1	AGGGCGAGTTCAGCAAAGAG	TMEM100	AATGACTGAAGAGCCCCATCA
ICA1	GATGATGCAAGCGACAGGAA	TMEM150C	GATGCCGACAGAATAACCCG
ICA1	TTTGCTGGGAAGAAAAGCAG	TMEM150C	GCGCAGAACAGCTACCACAA
ICA1	GTGTCGATTTACCAAGAAG	TMEM150C	CTAAACACACAGCTTGCAGG
ICA1	GCAAATGGAGAAGTTCAGGA	TMEM150C	CTTCATACAACCTGAAACCGA
ICA1	GCAGGGACCCCGGAACCTGA	TMEM150C	ACCAAGTAAGGTCATTCCGA
ICA1	TTGGCCGTCTCCAAACACAG	TMEM150C	GATTTGGCACATTGACCTGC
ICA1	TTTTGGTCTAAAAGCTGCGA	TMEM150C	AAGAATGAAGGACGGAGAGT
ICA1	GAAGAAGAAAATCAACCAGC	TMEM150C	ACGGAGAGTTGGAATTCCAC
ICA1	AGAGGAAGAAAACCAGCGCA	TMEM150C	AACCGAAGGTTTTAAACCCG
IDH1	ATAACCTACACACCAAGTGA	TMEM150C	GCTGAATATTAGTGGATTGG
IDH1	TAGGCTCATCGACGACATGG	TMEM26	CCGAGGTGAAGAAGGAGCCG
IDH1	GTAGAAGCAGAGGCTGCCCA	TMEM26	CAGCAGGAACAGCAACCGAG
IDH1	ATGTAGATCCAATTCCACGT	TMEM26	AGCGCAAGCAGCCAGTACCG
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IER3	GCAGCTGCGAGAGTGACACA	TMEM26	CGGGGTCTGGCGAGTGACCG
IER3	CTCGAGGGTAGAGAACCCTG	TMPRSS11E	ATGACGAGGCCGATAACCCA
IER3	GCAGGATGGTCATGGTCGGG	TMPRSS11E	GGTGGGACAGAAGTAGAAGA
IER3	GGGGTCCCGGGATGGTGGAG	TMPRSS11E	TCAGGGATATGAAGATGACG
IER3	GGCACCGAAAGCGCAGCCGC	TMPRSS11E	GAAAAGCTGCAAGATGCTGT
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IER3	GAAGGTGAAGATCTCAGGAC	TMPRSS11E	TAGAAGAGGGTGAATGGCCC
IER3	GGGCTCCGGGAGAGGGTCTGA	TMPRSS11E	CAGGCTAGCCTGCAGTGGGA
IER3	TCGGCGATACTCACCCTCG	TMPRSS11E	AAATCATCTTCGACAAGCAC
IER3	GAGGACGGCGGACACAGGGG	TMPRSS11E	CCTTAGGCCAGATGTGGTGA
IFI27	GCTACAGTTGTGATTGGAGG	TMPRSS11E	GAGCCAGAGACTTGAATCAA
IFI27	TGCCATGGGCTTCACTGCGG	TNN	GAAGCTGGAGGAAGAGATGG

IFI27	AGCCAAGATGATGTCCGCGG	TNN	GCAGCTGCTCAAGAACACGG
IFI27	TGTGGCCAAAGTGGTCAGGG	TNN	GACTGAGTATAAGATCACGG
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IFI27	GTGACTGCAGAGTAGCCACA	TNN	GTAGTGATCCACCTGGCTGG
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IFI44L	CTAGATGGGGCAGAAGGAGC	TNN	GACGGGCCTGAAGCCAGGAG
IFI44L	GCATCTGCCTCAGTGCAGAG	TOX3	GCAGGGTCTGACTCTGGAGG
IFI44L	CACATTCCAAATACTGACGG	TOX3	GATGGCGTGCTTCATAGCAG
IFI44L	TGACTGGCCAAGCCGTAGTG	TOX3	GATGGACCGCATGATCAGGG
IFI44L	GGTGATATCAGACCCCACTA	TOX3	ATTGATGGAGCTGGAAGGGG
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IFI44L	GAAGGACAGGATTCACTGTG	TOX3	GGGAAGGCAATGGATCGCTG
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IFI44L	CAGAGCCAAATGATTCCCTA	TOX3	GTGGCTGATTTGCTTGCTGG
IFI6	GCTCTTCACTTGCAGTGGGG	TOX3	ACATCCGGCATGCCTAGGGC
IFI6	GTGGCCACGCTGCAGAGCCT	TPD52L1	ATGAAACCCTGAGTCACGCA
IFI6	TCCGACGGCCATGAAGGTCA	TPD52L1	ACTGCAGCTTTCAGCAACGT
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IFI6	CGGCATCGCGGCCAACTCGG	TPD52L1	AACAGAACTTCAGCAAAAGC
IFI6	GAGAGCTCGGACAGCGGCTC	TPD52L1	CTCTAGCATGCTCTCTGAGG
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IFI6	CGCAGACCAGCTCATCAGCG	TPD52L1	TGCTCATTTTCAGACGAAAGT
IFI6	CTGGTCTGCGATCCTGAATG	TPD52L1	GTCAGCCACCATGGAGGCGC
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IFIT1	GAAAACCCTGAATCCAGCGC	TPD52L1	TAGCAGGCATACTTATGGAA
IFIT1	AGAGATCGCATACCCAGCGC	TRIM45	GAAAACGACTTACCACACCA
IFIT1	GTGAGGAGTCTGGTGACCTG	TRIM45	AGGGTGAACAGGACACAGGA
IFIT1	GGATGGGCCTTGCTGAAGTG	TRIM45	GCAATGTCATCCACAAGCAT
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IFIT1	GTGTCCAGAAATAGACTGTG	TRIM45	GCATCACATCATTCACGGCC
IFIT3	GGGTGGACACAACCTGAAGTG	TRIM45	GATGCTGGAGAGCCTACGTG
IFIT3	AAAATTTGGCTGCACTGCGG	TRPM8	GAActACAAGAAACACACCA
IFIT3	GGTAGTGAGGAAATGGGCCA	TRPM8	GAACTGGGGAAAGAAAGGGA
IFIT3	GTGAAATGGCATTTCAGCTG	TRPM8	GGTGCTTGGATTCTCACGGG
IFIT3	CACTTGGGGAACTACGCCT	TRPM8	CCTGATGAAGTACATCGGGG
IFIT3	TGGAAGAAATGAAAGGGCGA	TRPM8	AGCCATTCTCCAGAAAGAGG

IFIT3	GCAGTTTGTGTAAGAAGCCT	TRPM8	CAGATGAAGAGAGCTTGCAG
IFIT3	GACTGGAGCTGACTGCGCCC	TRPM8	GAACGACATCAATGCTGCTG
IFIT3	TTGGAATCCACACCAAACAA	TRPM8	TGTGGACTCACCAACAGCCC
IFIT3	GAGGTAGCCATTGTTTGGTG	TRPM8	CAACTGTCTGGAGCTGGCGG
IFITM1	GCACAAGGAGGAACATGAGG	TRPM8	GGTTTACCTGGACCCCAGGC
IFITM1	AAGCCAGAAGATGCACAAGG	TRPS1	GAAGTCTCCGCAAAGAGCAG
IFITM1	GACAGCACCAAGTTCAAGAAG	TRPS1	AACGTTGCAAGTGAAGGCGA
IFITM1	GGACCTTGGAAGGATGGTGC	TRPS1	GATGTCACCAAAGGCTACAG
IFITM1	CAGTAACAGGATGAATCCAA	TRPS1	AGGTTTTGCAACCTCAGAGG
IFITM1	CTGGGCATCCTCATGACCAT	TRPS1	GCAGAAGCAAGAGTGCACAG
IFITM1	GCTGTGGATGTTGATCACGG	TRPS1	GAGTACATCTACGTCAGGGG
IFITM1	AACATGAGGTGGCTGTGCTG	TRPS1	GGAGAGGGGCAGACATCCTG
IFITM1	CAAGAAGAGGGTGTGAACA	TRPS1	AAGGGATAGTCCCAATGTGG
IFITM1	AGCATTGCGCTACTCCGTGA	TRPS1	GGTGAATGACAACCCAGACC
IGF1R	GAAGCAGGCCGAGAAGGAGG	TRPS1	CCATTCCAAAGACTTCCAGA
IGF1R	GCTTGGGGAAGCGGTAGCTG	TSNARE1	GCGACGGGCAGGGGAAATGG
IGF1R	GGTTGGGGAAGAGGTCTCCG	TSNARE1	GCACTACCCGGGCCAAGAAG
IGF1R	GGGACCAGTCCACAGTGGAG	TSNARE1	TGGACCTGAAGCACAAAGTGG
IGF1R	GAGGGGTTTGTGATCCACGA	TSNARE1	CAAGCTGGGCGACCTCCGGA
IGF1R	GCCGTTGCGGATGAAGCCCG	TSNARE1	GGGCAGTGACCTCCTTGGAG
IGF1R	GATGCGATTCTTCGACGTGG	TSNARE1	GGGAGTGACAACATGTGGCA
IGF1R	GTAGTAACTCAGGTTGCCGT	TSNARE1	TGTGTGGGGAAGGACGGGGA
IGF1R	GGAATACAGGAAGTATGGAG	TSNARE1	GCCAATGGTGGGTGATGAGG
IGF1R	GAAGTACTCCGGGTTACAG	TSNARE1	CCTGCAGGCCGTGAATGCGC
IGFBP2	GCAGCACCGGCAGATGGGCA	TSNARE1	GGGCTTGCCGGAACCAGGGC
IGFBP2	AAGGGTGGCAAGCATCACCT	TSPAN1	GGTTTCACACACCGTCACGA
IGFBP2	GGCGTCTACACCCGCGCTG	TSPAN1	GTTGACAAACTGCATGGCAC
IGFBP2	AGGGCACTTGTGAGAAGCGC	TSPAN1	GAGCAAGTGTGCCCTCGTGA
IGFBP2	GGCGATGACCACTCAGAAGG	TSPAN1	CCGAACTAATGCAGTCACCG
IGFBP2	AGGCCTGGTGGAGAACCACG	TSPAN1	AGGAAGACTTCACTCAAGTG
IGFBP2	GAGGGCCCCGCTCATCCGGA	TSPAN1	TGTGGAACACCACCATGAAA
IGFBP2	CTACTGGGCGCGAGTGGCGG	TSPAN1	AATGAAGCTGAAGCACTGCA
IGFBP2	AGGCGCTCGGGTGTGCAGGG	TSPAN1	TGGTGCAGCCCTGTTGGCAG
IGFBP2	GGGGATAGCAGCGCAGCCCC	TSPAN1	AAGAGCAAAGACCACAACGC
IGSF9	ACTGCCACCAGACCCCGCGG	TSPAN1	CCTCAGCAATGAAGATGAGG
IGSF9	GCTGACGAAGCTGCCCCGCGA	TUBB3	GATGTCCAAAGGCCCTGAG
IGSF9	GGAGGGACTTACCTTGCGCG	TUBB3	ACCATGGACAGTGTCCGCTC
IGSF9	GAAGCCTGAGGTGGTATCGG	TUBB3	AGGCCTGAAGAGATGTCCAA
IGSF9	GCCACGGGCCACACAACGCA	TUBB3	GATGTACGAAGACGACGAGG
IGSF9	GTCCAGCTGACAAAGAGCAG	TUBB3	GAGGAGGAGTCGGAGGCCCA
IGSF9	GGTCACAGGAGAGGGCCCCG	TUBB3	GAAGGTGTTTATGATGCGGT
IGSF9	GGGCCGCTCTATAAAAGCTG	TUBB3	GCCCCGGAAGCGCAAGGAGG
IGSF9	GTCCAAGAGACAACAGGAGG	TUBB3	TGTACAGGTCAGAGTGGGGC
IGSF9	GTGGTTCTGTAGGTGGGCCG	TUBB3	CCAAGGGTCACTACACGGAG

IL17RB	ACTCAGACCAGACCCTCTGG	TUBB3	GATGAGCAACGTGCCCCATGC
IL17RB	TGTGAGGTGCAATTACACAG	TUFT1	GCGGAACTGGTGTACCCTGG
IL17RB	GTATCTGTTTCCCAGGGGAG	TUFT1	GCACCCAGAGGACCAGGCGG
IL17RB	GGAGGTCCCTCAAGTCTCCG	TUFT1	GGGCAGGAAGACCTATGCCA
IL17RB	TTGTAACAGGTTCTACTCGG	TUFT1	TGAGGTCCAGTACATCCAGG
IL17RB	GTGAAATTCACAGACATGGA	TUFT1	GGAAGTGCCTACAGAAGCTC
IL17RB	GAAC TTCACAACCACTCCCC	TUFT1	GGACAGAGTGGAGCAGAAAG
IL17RB	GAAACAAACGCGAGCTTCAG	TUFT1	GCAGAGGCGCTTGCTAGGGA
IL17RB	CCAGTGACTGGGGATAGTGA	TUFT1	GGCGAAAGTGAGGGAAGGGG
IL17RB	CCACCAGCAGAGACAGCAGG	TUFT1	GGAGAAAATCGCCTATCTGG
INPP4B	GATCTCCGTAATCCACCCCG	TUFT1	GAGGGAAGATGAACGGGACG
INPP4B	TCAGACTCTGCTCCACGGGG	UBXN10	CAACAGAAAGAACCTGGAGG
INPP4B	TGAAAACACAGCCAAAGCAA	UBXN10	AGGTGGTGCTATATTCACAG
INPP4B	GATGGTGGCAGTGAAGGCAG	UBXN10	GATAAGGCCCAAGTCCGCCA
INPP4B	GAAGGACTGCATGGGAGAAG	UBXN10	GCAGAAATCCCAGGGCGTGG
INPP4B	GGACTTCTTTATCCGAGCGC	UBXN10	GGAATGGCTGGAGGCGGAGA
INPP4B	GAGGAAGGGGCATCAGAAGA	UBXN10	GCAGCAGCAAGTACCCACTG
INPP4B	GGTATGTGAATGTACAGCCC	UBXN10	GAGAGAAGAGGAAGCCCCAG
INPP4B	GCTGCTGCTTGATTTGAAAG	UBXN10	GCACCCAAATCTCCAAACCA
INPP4B	GCACTCTACACTGCAAGGCC	UBXN10	GGCTCTTTACCAAGACGAGA
IRS1	ATAGCTGGTCCCGGAAGGGA	UBXN10	ACACTGCAGCATTGAAACAA
IRS1	GCTGCTTCAACATCAACAAG	UHL1	GAAGATGCAGCTCAAGCCGA
IRS1	CGAGCACTTTGCCATCGCGG	UHL1	AATCGGACTTATTCACGCAG
IRS1	GCTGGGGAGGACTTGAGCTA	UHL1	ACAGGCAGCCCATGATGCCG
IRS1	GAAGCTGAACTCGGAGGCAG	UHL1	GCCGATGGAGATCAACCCCG
IRS1	GGAGCGGCTGTGGTTGAGCG	UHL1	GGACGTGCTGGGGCTGGAAG
IRS1	GGACGACAGACTGACCGGGC	UHL1	AAACAGCAGCAGCAGCGCGC
IRS1	GAAGCCACTGAGGACTGGGA	UHL1	AAAGCAGATTGAAGAGCTGA
IRS1	GGAGCGGGTGGGCACGAAGG	UHL1	CAGACCATTGGGAATTCCTG
IRS1	CAGGAGAGCAGCCACCGCTG	UHL1	GCATTTTGCTCTGTCTTCAG
ISG15	GGTACGGCTGACGCAGACCG	UHL1	ACATTGGCCTTCCTGTGCCA
ISG15	CCTGACGGTGAAGATGCTGG	UGT2B11	TGGGAGTTGTGGAAAAGTGC
ISG15	CAGCACGGTCCTGCTGGTGG	UGT2B11	GAATTTGTATGCCCCACAA
ISG15	GCAGCAAGTGAGCGGGCTGG	UGT2B11	GCACCAGGATGACTCTGAAA
ISG15	ATGAATCTGCGCCTGCGGGG	UGT2B11	TTGTGTAGCCAGGAGTAAAG
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ISG15	GGTGGACAGCCAGACGCTGC	UGT2B11	GGGCCGCAGAATACAGCCAT
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ISG15	CCTGGAGGACCAGCTCCCGC	UGT2B11	AAGGGCTGTTGCAATTACAT
ISG15	ATCCTGGTGAGGAATAACAA	UGT2B11	CAATGGGAAAAGCTGACATA
ISYNA1	GGGATGTAAACAGAAGGCCG	UGT2B11	CAATCTAACAGCTGCTCCCT
ISYNA1	CAGGTGGTTGTAACTCACGA	UGT2B28	GGACCGGTGAATACAGCCAT
ISYNA1	GGTGTCCAAGAGCAACGTGG	UGT2B28	GCACCAGGATGGCTCTGAAG
ISYNA1	GGGTGACAGCAAGCGCGCGC	UGT2B28	GTACAGAGCTCTGGTGAAAA

ISYNA1	TGAGCAGGGACAGCACGGGG	UGT2B28	GGAAAGGTGCTGGTGTGGAC
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ISYNA1	CTCGACGAAGAAGTGGGCGG	UGT2B28	CAGAAGACTGCTCGATGCAG
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ITGB4	GAGCAGCTTCCAAATCACAG	UGT2B28	TCAGGTTGATCCCCAAAACAA
ITGB4	AATGTCACTCAGAGAGCCGG	VAV3	AGGGACACTCAAACCTACCAG
ITGB4	TGAGCTGGACGTGGAAACGG	VAV3	GCGAAGAACTCCTAAACAGG
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IYD	GATTTCGAAAGATCATTGAGG	VAV3	GAGAGGAGAAGTAAATGGCA
IYD	TAGCAGGATGCCACAAGCGA	VSIG10	GAGGAACCTTACCCAGCCCCG
IYD	GCAGAGAATGGCTACCAAGA	VSIG10	AGCGAGGCTCAGCTGGCCGG
IYD	GATAATGTCATCAGAACGGC	VSIG10	GCCACCGGCACACTCCCCAA
IYD	GTGACAGGAACAGCCCCGAG	VSIG10	ACAGTAGACCAGGAGCTCGG
IYD	TGGGTCCCTTCACAACCACGA	VSIG10	GCACTGGGGAGCTGATGGAG
IYD	GAAAAGGATGGGACATCGCT	VSIG10	ATGGGCTCAGAGAGAAGGGA
IYD	TCACAGACCTCAAGAACTG	VSIG10	GCTGGATGATCACCTCGGGC
IYD	GATAGTGGTTATGAGAGAAG	VSIG10	GCAGTTGTGGATAGTGAGGG
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JRK	GCTGCCGCTCCGCAAAGCGC	VSIG10	AACCACCATTCAACCACGGG
JRK	GGAGAAGGGCGAGAGCCGGA	WBSCR17	GAAGCGCCTGTCGCTGCTGG
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JRK	AAAGCGCCAAAGCCACCCTC	WBSCR17	GTAAGAAATCAGAAGAGGGA
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JRK	GCAGAGGGGAGAAGCGGAAG	WBSCR17	GAGAAGAGTCAAAGTGCTGT
KALRN	GGAGGGCCTCACAAAGCTGG	WBSCR17	GACGATAATCCGGAATGGAA
KALRN	TCTGCACCAGTACATCACGG	WISP2	GCTGCCGGGTATGTGCACGG
KALRN	GCAGGTACAGCAGAAAGCCG	WISP2	GGAGGGAGAAGGCCAGGAGG
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KALRN	AAGGAAATGGGTGACCACGG	WISP2	GCTGGGAGTACCCCTGGTGC
KALRN	AAGCAGAAGAAAGTTCGCGA	WISP2	GGACCTCGACCCTCCTGGGG
KALRN	AATACGTCACGAGTTTCCGC	WISP2	GAGTGGGTGTGCGGCCAAGG
KALRN	GACGAGCATGGTATCTGTGG	WISP2	CCACAGCCATCCAGCACCAG

KALRN	GGACCCCTCCCAGCTGACGG	WISP2	AAACCTGCTTACAGAGGCAC
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KCNG1	GCTGTACTGGGGCATCGCGG	WISP2	CCTTGAGAGGAGGCAGAGG
KCNG1	GGAGGAAGAGGACGACGCGC	WNK4	GGAGTACGGGTACTCAGAGG
KCNG1	GAAGGTCAGGATAGTGCCGA	WNK4	TGTGCACGTGGAAGTAGCGG
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KIF12	GCGGTCCAACAGCCAGGCGA	ZBTB10	GGGTTGGTCACCGCTAGCGG

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KIF12	AGAGATGCTGCAGCTCCAGG	ZBTB10	GGCAACAATGGCAGTAGCCG
KIF12	CCAGCTGGAAGTGCAGGCGA	ZBTB10	GCCACACCGAGGTCTCGGGG
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KLHDC7A	GAAAAGGCTCAGGTGAGGAG	ZDHHHC13	GTTGAAACAATACTGCCAGG
KLHDC7A	GGACTCATTGCAGCAGCCGA	ZDHHHC13	GCTGCAACTGCCCAGTGAAG
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KLHDC7A	GACCTGTGGGGCTGAAGCAG	ZDHHHC13	AACACTGCCTGTGGACTGGA
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KRT14	GCAGATTCTCACAGCCACAG	ZDHHHC13	TGAGACAGGCCAGAACCAAC
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KRT14	TGACAATGCCCCGTCTGGCCG	ZNF239	GGAGAGAAGCCCTATCACTG
KRT14	CTTGGTGCGGAAGTCATCCG	ZNF239	GTTGCCTCACCATTTAACAA
KRT14	CCAGGTTCTGCATGGTGCGC	ZNF239	GGATGCACCGGTGAATGTGA
KRT14	ATATAGTTCTCACCTCCTCG	ZNF239	ATATTTCCCCCTGTCAACAG
KRT15	TGAGGAGCTGAACAAAGAGG	ZNF239	CCTGTGACCATAATAACTGT
KRT15	GGGGCTGGTAGTGTTTTCCG	ZNF334	AGAAGAGCCATGGATAGTGG
KRT15	GGAGCAGTACGAGGCCATGG	ZNF334	TGAACTTCACCCAAGAGGAA
KRT15	GAAGAACCGCCGGGATGTCG	ZNF334	GAGAATTCTCCACTATCCA
KRT15	AGAAGTTTGCAGAAATGTGG	ZNF334	TGAAGTTCACAGTCAGGTCC
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KRT16	CGAGGAGCTGAACAAAGAAG	ZNF467	GCACGAGGCCCTACACCGG
KRT16	GTGAGGTGACGGAGCTCCGG	ZNF467	TGCCCACACAGAACAAGCCG
KRT16	GACCGGCGGAGATGTGAACG	ZNF467	GGAAGGATCCCATAATGCCC
KRT16	GAGCTCCGGAGGGTGCTCCA	ZNF467	TTCTAGGGAAGAGAGAGCAC
KRT16	GCGTGACCAGTACGAGCAGA	ZNF467	CAAGCCGAGGCTCCCTGCAG

KRT16	GGCTCCTGCGGCATCGGAGG	ZNF467	CCAGCTCACCCAGGGAGCTG
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LBP	GGTCCACAGACAGATTCCCA	ZNF703	GAGTGGAGGACAGCGGCTGC
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LDB2	AGCACTTCCAACAGCAGCGC	ZNF703	AGCCGGTTCGCCTGGCGCAG
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LDB2	GGACTGCGACCAGTGTACCA	HRAS	TTGGACATCCTGGATACCGC
LDHD	GCTCTGCAGGGACTTCGTAG	HRAS	GACCTCGGCCAAGACCCGGC
LDHD	AGAGGCTCTGAAGGCCGTGG	PCNA	TGAGCTGCACCAAAGAGACG
LDHD	GTGCTGCTCTCGGACCACCG	PCNA	GCTCTGCAGGTTTACACCGC
LDHD	GGCCACACCACAGCATCAGG	PCNA	TGGCCAGGTTGCGGTTCGACG
LDHD	GGTGCCGTAGCGGACCGCGT	PCNA	GCAAGTGGAGAACTTGAAA
LDHD	GGACAACGTGCTCAACCTGG	PCNA	CCAGGGCTCCATCCTCAAGA
LDHD	ACTGGGGAACGCACACGTGG	PCNA	GCTGGAGCTAATATCCCAGC
LDHD	GATGGGCACACACATCCG	PCNA	ACTAAGGGCCGAAGATAACG
LDHD	GGAGATCGTGGTGCAGACCA	PCNA	ATGTCTGCAGATGTACCCCT
LDHD	GGTCAACCCGTATGACGCCG	PCNA	TGTCGAAGCCCTCAGACCGC
LGALS12	GCTTGGTGGTATGGAAGCGA	PCNA	GCCGCGAGGCTCACCTGGTG
LGALS12	GCTGGCAAAGGGAGGCCCGG	TM4SF1	GCGGCTGAGGTGGTTTTCGG
LGALS12	AGGGTGTTGCAGATGACATG	TM4SF1	CAGAAAAGAACCACACGAAG
LGALS12	GAGACAGTGGGAGCCGGTAG	TM4SF1	AGTGCCTCGGACCATGTGG
LGALS12	ACTGTCTCATGTGGACACGC	TM4SF1	TATTAGCCGCGATGCACAGG
LGALS12	GATGGTCATGCTGCAAGGAG	TM4SF1	TTTTCTGGCATCGTAGGAGG
LGALS12	TGGAAGGCGATATCTGGCCG	TM4SF1	GTGGTCCTTCTGCTAAGCCA
LGALS12	GAAGCGAGGGTTGAAGTGGA	TM4SF1	GGTGTAGTTCCACTGGCCGA
LGALS12	GGCCAGAGTTCTGTCTGCGA	TM4SF1	GTAATAAATGGAGTGCTTGG
LGALS12	GCCTCTTCGCAGGGCCAGGT	TM4SF1	GCATCGGACATTCTCTGGTG
LGR5	GCAGCAGCACAGGCAAGGAC	TM4SF1	GGGAAGTGTGCACGATGCAT
LGR5	GGTAGGAGGTGAAGACGCTG	CDH1	GCTGAGGATGGTGTAAAGCGA
LGR5	AGGAAGCGGAGACTGGGCAG	CDH1	GCAGCAGCGCCGAGAGGCTG
LGR5	GGAGAGTGTCTAATTGCAG	CDH1	GGAGCTCAGGATCTTGGCTG
LGR5	GTGATACTCACAGCGATCGG	CDH1	GTGGTGGGATTGAAGATCGG
LGR5	CAGGAGCACACCGAGCCGGG	CDH1	GCCAAAGATGGCCTTAGAGG
LGR5	CGGCAGGATGTTGCTCAGGG	CDH1	GTTTCTTCGAGGAGAGCGG
LGR5	GTGAACACTGCACTGAATGA	CDH1	TACTATGATGAAGAAGGAGG
LGR5	GTCATTGCGAGCCCGACGGC	CDH1	GACTTGAGCCAGCTGCACAG
LGR5	CGCTCTGACATACATTCCCA	CDH1	GCAGGGCGGGGAAGATACCG
LIMCH1	AAGATGGGACAAGTGAACGA	CDH1	TCTCGGCGTCAAAGCCAGGG
LIMCH1	GAAGGAAAGAGAGTGTCCCA	VIM	AAGACGGTTGAAACTAGAGA
LIMCH1	AGGGTTCCCAGAATGAGCCA	VIM	GCGGCTCCTGCAGGACTCGG
LIMCH1	AGGATGACATGTCTGCACGG	VIM	GAACACCCGCACCAACGAGA

LIMCH1	GAGTACCGCCACCTCCCCGC	VIM	GGAGCGCGACAACCTGGCCG
LIMCH1	AAGGGCCTCTCCCCACCCAG	VIM	GCAGTCCCTCACCTGTGAAG
LIMCH1	GCTGATAAATAACCAGCTGA	VIM	GCAGGTCTTGGTATTACGA
LIMCH1	GAACGCTCGGTCCCAGGAGG	VIM	GGACGAGGACACGGACCTGG
LIMCH1	GAGGCAGTGACTGTTGCCGC	VIM	GCCCAGGCTGTAGGTGCGGG
LIMCH1	AGAGACGGTTCATAGAGAGG	VIM	GTAGAGGCTGCGGCTGGTGC
LIN7A	GGAGGGGTGGCTGAAAGACA	VIM	GGGACGAGGCGTAGAGGCTG
LIN7A	GCAGCTTTTGCAGCTAGTGA	FN1	GCTGTAACCCAGACTTACGG
LIN7A	GCTGCTATCAGTGAACGGAG	FN1	CCAACTCCCACCCCATCCAG
LIN7A	AGACATGGCGACATTGACAG	FN1	GGTTCAGCCCCAGTCCCCGG
LIN7A	CAGCCGCTCACCTGGACAG	FN1	GCTTTGACTGACAGCCACCG
LIN7A	GCAGTTCAACTACTCGAGGG	FN1	GTTTTGGTTCAGACTCGAGG
LIN7A	GAACTGCCAAAGACTGATGA	FN1	GCAGAAGAGACAACATGAAG
LIN7A	GTGGGAGCCGAAGTGACGCT	FN1	GAAATCTGCACAACCAATGA
LIN7A	TCGCATAATTCCTGGAGGGG	FN1	AATGCCACTCCCCAATGCCA
LIN7A	GTTTTGTACAGCTATTCGAG	FN1	ACGGCCAGCAGCAGCAGCCC
LMX1B	GGGATGACGGGAAGGACCCG	FN1	GCTCTTCGAGGCTCCCGTGG
LMX1B	GAAGAGCGAGGATGAAGATG	CDH2	GCAGTGTACAGAATCAGTGG
LMX1B	GGGCAGGGCAGTCAGAGCAA	CDH2	GAGATAGTACCATTGAGAAG
LMX1B	AGGAGCAGCAGAACTCCCAG	CDH2	GACTGGTGACATCATCACAG
LMX1B	GACTCGCATCAGGAAGCGGT	CDH2	TGGCCTTTCAAACACAGCCA
LMX1B	GAAGTAGCAGCTGGTGGTGA	CDH2	GCAGAGCAGGATGGCAATGA
LMX1B	TGTGAACGGCAGCTACGCAA	CDH2	GCAGATCGGACCGGATACTG
LMX1B	GAGGGCCAGCTGCTGTGCAA	CDH2	GCCGGATAGCGGGAGCGCTG
LMX1B	GGGTGACTACGAGAAGGAGA	CDH2	GTGAAGTTTAGCAACTGCAA
LMX1B	GACGGGCCTCAGTGTGCGCG	CDH2	CCTGAAGCCAACCTTAAGTG
LPAR4	GAAGCCTTCAAAGCAGGTGG	CDH2	GTGGCGGAGATCCTACTGGA
LPAR4	GACAAACAGAGAGACACTGT	CXCR4	GAAGATGATGGAGTAGATGG
LPAR4	GAAAAGGATAGACAATGGCC	CXCR4	GAAGCGTGATGACAAAGAGG
LPAR4	GCACCAGGGCATAACAAGAAG	CXCR4	GCACTCACCTCTGTGAGCAG
LPAR4	CAGTTCCAGAGATCTTGACAG	CXCR4	CACTTCAGATAACTACACCG
LPAR4	CCAGACACCAGCACACACAA	CXCR4	GAAGCTGTTGGCTGAAAAGG
LPAR4	AGGCTGAAATACCGCCACTG	CXCR4	GGAATAGTCAGCAGGAGGGC
LPAR4	TGCATTGTTGACATTAGTGG	CXCR4	CAAGTGGATTTCCATCACCG
LPAR4	GGGTGTCAACAAAAGGCCAG	CXCR4	GGATGGGGTTTACAGACAACAG
LPAR4	GAAACGATCCACACTAATAC	CXCR4	GCTGGACCCTCTGCTCACAG
LPHN3	TCTTCCTGACACTGACGGGG	CXCR4	GTACAGGCTGCACCTGTACG
LPHN3	TAACAGAACCCAGTGTGCAG	SPARC	GCCTGATGAGACAGAGGTGG
LPHN3	ATGATACCTCCCCCTTACCGA	SPARC	AGAGGTGGTGGAAGAACTG
LPHN3	GGTCCGAAGGGTGGTACTGG	SPARC	GGAAACCGAAGAGGAGGTGG
LPHN3	GCAAAATCAGGAGACAAACAA	SPARC	GAAGTGGCAGGAAGAGTCGA
LPHN3	GACACAGCCACAATGAGTGC	SPARC	GAAGGGCCACAAGCTCCACC
LPHN3	GTGGTGCAAAGACCCTCTGC	SPARC	TGAGCCAGTCCCGCATGCGC
LPHN3	GATTTGCCTCCCCATCGGTA	SPARC	TGACTGAGAAGCAGAAGCTG

LPHN3	TTACCTGATCTACTATCCAG	SPARC	TGAGAATGAGAAGCGCCTGG
LPHN3	GATGGAATTTGGGATCCCCA	SPARC	GGAGGCAGGAGACCACCCCG
LRIG3	GGAGTAACGAAACTTATGGA	SPARC	GCAGTGGAGCCAGCTCGGTG
LRIG3	GGGTGTCGTGATCATAGCCG	TWIST1	ACGAGGAGCTGCAGACGCAG
LRIG3	GCCCACCACACAGCAAACCA	TWIST1	CGACAGCCTGAGCAACAGCG
LRIG3	TCATATAACCACACAAGGCGG	TWIST1	GCAGCTATGTGGCTCACGAG
LRIG3	GGAGCTTCAGTAATATATCG	TWIST1	CAAGCGCGGCAAGAAGTCTG
LRIG3	GCAGTTTAAACATCTTGGGT	TWIST1	AAGAAGTCTGCGGGCTGTGG
LRIG3	TCAGAGACTTCAGAGCACCA	TWIST1	GCGGGTCATGGCCAACGTGC
LRIG3	CAATGCATCCAAACCAGTGA	TWIST1	CAAGATTCAGACCCTCAAGC
LRIG3	AAAATGGCTCCCACAGTGGG	TWIST1	GCTACGCCTTCTCGGTCTGG
LRIG3	AAGATGTGACAAACTGGTGG	TWIST1	GCGCACCCAGTCGCTGAACG
LRP2	GCATCCTAGAGGAATTGCCG	TWIST1	ATCTTGCTCAGCTTGTCCGA
LRP2	GGAATGCACCTCCTGTCCGG	VCAM1	GGTGCTGCAAGTCAATGAGA
LRP2	GACGCGGATGAAATTGGCTG	VCAM1	GAAGAGTCAGGAATTTCTGG
LRP2	CCAGACTATCCGACCTGCGG	VCAM1	AAGATATCTAGATTCTGGGG
LRP2	AGTGAAGTGGTAACCACCGC	VCAM1	CCAGAAATCGAGATGAGTGG
LRP2	GATGGGATTTTAGATTGCCC	VCAM1	TGGAATTCTGAACCCAAACAA
LRP2	GTGGTTGATGATATAACCTG	VCAM1	GGAGGAAGGGCTGACCAAGA
LRP2	GGAGTCTCAGAATCGTGGAG	VCAM1	AATATGACATGCTTGAGCCA
LRP2	ATAGTGGAAGCCACACCCA	VCAM1	GACAGCAACTTAAAAATGCCT
LRP2	AGGAAGACTGTAGTTCATGG	VCAM1	TCGGCTTCCCAGCCTCCAGA
LRRC15	GGCGTTCCAGGGCAGAGGGG	VCAM1	TGACAGAGCTCCCATTACG
LRRC15	GCTTCGTGAGTCCTACCAGG	BRMS1	GAAAGGATACCAGAAACCAG
LRRC15	GAATCAGGACCTGCAACTGG	BRMS1	GGGAGCCAAACAGCACCTGG
LRRC15	CAGGTGATCGAAGATGCCGA	BRMS1	GGAGCGGATCCAGAGGCTGG
LRRC15	GCAGCTCACACAGTTTCCCC	BRMS1	ACAGAAGAGATGGAAGCAGA
LRRC15	GGGTCATGCCCCAAACGCTG	BRMS1	GGGAACGACTGAGTCAGCTG
LRRC15	GCAGCAGCAACAGCCGACGC	BRMS1	GCGGTTGCGGCTGGAGGAAG
LRRC15	CAGGCCCTGGAAGAGGCCGA	BRMS1	GATGACAAACTGCACGCCAG
LRRC15	GCCTCACCCACATCTCACCC	BRMS1	AAGCAAAGACACAGAAGAGA
LRRC15	CATACAGCCGAGGACCTGG	BRMS1	TGCTGCTGAGATGAATGGGG
LRRC31	GCATTTGCTGAGTGATGGAA	BRMS1	GAGAGTGAGGAGGAGCGGAG
LRRC31	CAGCTTACCAGTCTCTGAGG	CD44	GTGCCACCAAAACTTGTCCA
LRRC31	GAAGTGGATATCTCCTGGAA	CD44	CTACAGCATCTCTCGGACGG
LRRC31	CAGAGCAGAGAGGTGAACAG	CD44	GAATACACCTGCAAAGCGGC
LRRC31	GTGATTCCCAACCCAGCGAC	CD44	GAAAGCCTTGACAGAGGTCAG
LRRC31	CAGTGCTTGAACATCGTCAG	CD44	GCATCGGATTTGAGACCTGC
LRRC31	TGGAAGTTCTGAAGGATCAG	CD44	ATGGAGAAAGCTCTGAGCAT
LRRC31	TTAGGTATTTGGGTGAGCTG	CD44	CCGATCTGCGCCAGGCTCAG
LRRC31	TGAATACTTCCAGAGCAGAG	CD44	CTTGCCCAACATGGCCCAGA
LRRC31	CAATGCTGAAAGCAGAAAAG	CD44	CGGCACGAGGCAGAGTCCCC
LTF	GAAGTCCTGCCACACCGCCG	CD44	CAACAGTGGCAATGGAGCTG
LTF	GTGGCTGTGGTGAAGAAGGG	KISS1	GGGTCTAGAATTCCCCACAG

LTF	GCGGGTCGTGTGGTGTGCGG	KISS1	TGGGGAGCCATTAGAAAAGG
LTF	GGAGCTCCCTACCAGCACCA	KISS1	ACAGAGGCCACCTTTTCTAA
LTF	GAGATACTACGGCTACACTG	KISS1	CCCCAAAGTGGGTGGCACAG
LTF	GATGCTGTGACCTTGATGG	KISS1	GGTGCTGGTGCAGCGGGAGA
LTF	CAAAGTGCACCTGTAGCGG	KISS1	GGGAACACCGGCAGAAGCGC
LTF	ACGAACTCACTATTATGCCG	KISS1	CCTGCGCTTCGGCAAGCGGG
LTF	ACGAAGTGTGAATGGCAAGG	KISS1	GAGGCGGCACCAGGGAACCA
LTF	GAATCTTCTCCGCCAGGCAC	KISS1	GAAGCGCTGGGCGGGGCTGA
LY6D	GGTCTTGCAGAAGCGAGAGC	KISS1	AGAGCCTGCCGTGCACCGAG
LY6D	GCTCCTTGCAGCCCTGGCTG	KLF17	GCAACATCTGAGCCATGGAG
LY6D	TGGCCCTGTAGCCACAGCCA	KLF17	GCAGGCTGAGATGGAACAGG
LY6D	TGGTGCACACGTGGCAGCGC	KLF17	GGAGCTGAGCCGGTGGCAGG
LY6D	CAGCAACTGCAAGCATTCTG	KLF17	AGGGTAGCCAGGCCCTTCGG
LY6D	GCTGAGGGCACTGTGGGCGA	KLF17	GGCGCCTCAACAGACACCAA
LY6D	CTGCAAGGCCAGGTCAGCAG	KLF17	GAAGGAGTGAGAGTCGCTTG
LY6D	GGGCTAAGATGACGGCCAGG	KLF17	GGGCCCCAACTAATGCCCGT
LY6D	GTCCTCCTGGCAGCACTGGG	KLF17	CAATGACTGGGACTCAGCTG
LY6D	TGTGCAGCTTCTCATTGCAC	KLF17	AAGAACTCCAGGCCTCAGGA
LYNX1	GGGTGGCAGTGGTGACACAG	KLF17	TGCGCTGGTGGCTCACGAGG
LYNX1	CCTGCTCACCTGATCCTGG	OFCC1	GGTAAGATCGATGTCACAGT
LYNX1	ATATGGTGTACCAAGTGCAC	OFCC1	GGACTGCTCATGTTAAAAGC
LYNX1	GCCAACCCCAGCCCAGGCCT	OFCC1	GTCTGACATGCTGAGAGATC
LYNX1	GGTGCGCGTGGTCATGCAGT	OFCC1	GCGACGGAGGTCAGCAGAGA
LYNX1	GTAAGCCCATGAGGACCACC	OFCC1	GATAATTGGTCTCTTACCTT
LYNX1	ACACGTGGCAGTCCAAGGCC	OFCC1	GGTAAACAGATGAGAGTGGC
LYNX1	ACCATAGCCGGGCAGCGCAT	OFCC1	GTGGATTTTCGTGACTCTTAT
LYNX1	CCCATGGATCCAGATGCCTG	OFCC1	GAACCTCCTCAAGGTGAGCAG

Table S2. MAGEck ranking of screen hits.

MAGEck rank	231 liver Mets		231 lung Mets		Lm2-4175 Mets	
	Genes	neg p-value	Genes	neg p-value	Genes	neg p-value
1	ACADL	0.00082847	CDK6	0.00056058	POLG2	0.00053082
2	CTNND2	0.0042813	PCNA	0.00086816	RHOV	0.00059035
3	NOS1AP	0.0054124	LGR5	0.002158	ANO1	0.0014535
4	RHOV	0.0070098	ITGB4	0.0066923	PCNA	0.0023862
5	TSNARE1	0.0075852	SIPA1L3	0.0075852	LGALS12	0.0067816
6	FN1	0.0095795	KRT16	0.0091926	ERAP2	0.0075852
7	ALDH3B2	0.011822	IFI6	0.0092719	CWH43	0.010215
8	RAB11FIP4	0.013211	WNK4	0.011683	SRD5A1	0.011782
9	LY6D	0.020464	SYTL4	0.017229	MYEF2	0.02097
10	CXCL2	0.02097	EFNA3	0.018182	CAPN8	0.024879
11	HEXIM1	0.021218	PATZ1	0.021942	CGN	0.026208
12	ITGB4	0.031011	SYT1	0.023351	KLHDC7A	0.026784
13	KYNU	0.032757	ALDH3B2	0.023698	PEG10	0.0273
14	SLC12A2	0.035237	FCGR3B	0.029225	MFAP5	0.032191
15	CILP	0.038998	SYNGAP1	0.030614	C19orf33	0.032757
16	SIPA1L3	0.044137	SLC12A2	0.03111	CANT1	0.036577
17	SEMA3F	0.050408	SCRIB	0.031715	ORM1	0.03876
18	LGR5	0.052154	PBX1	0.032499	HPD	0.043095
19	SOX10	0.052184	TBX3	0.03614	ARHGAP39	0.044137
20	VCAM1	0.05393	KYNU	0.039752	NRIP3	0.045685
21	TGFB3	0.054684	CELSR1	0.03994	SLC4A11	0.047263
22	INPP4B	0.05524	RAB11FIP1	0.041339	NBPF4	0.047878
23	GJB1	0.063872	GREB1	0.044137	EPHX1	0.048949
24	CDK6	0.064923	UCHL1	0.044346	FAM196A	0.05393
25	DCLK1	0.065013	ERBB2	0.052045	GRB7	0.054684
26	SAA1	0.068396	KIAA1522	0.05392	PRRX1	0.056738
27	ERBB3	0.070519	KIAA1045	0.054049	CILP	0.05774
28	PPM1H	0.072196	PI4KA	0.054684	ATP7B	0.060488
29	CALML3	0.073089	FAR1	0.056867	FAM63A	0.063872
30	PCDHGB2	0.0768	PABPC1L	0.060736	CHMP4C	0.069964
31	VSIG10	0.080679	GPX8	0.060855	PARD6B	0.073089
32	MLLT4	0.081513	VCAM1	0.060965	KIAA1045	0.076591
33	AKR1D1	0.082148	BCAS1	0.062314	CDK6	0.077613
34	LIN7A	0.083011	KIF12	0.064507	SEMA3F	0.078189
35	CAPN6	0.088676	IGFBP2	0.064725	CELSR2	0.078864
36	F12	0.090085	RHOV	0.065439	SLC26A9	0.081513
37	CDH1	0.090303	POLG2	0.067682	MUCL1	0.081662
38	PCNA	0.091355	QSOX1	0.069964	SLAMF9	0.082168
39	CLSTN2	0.091901	TNN	0.071095	HRAS	0.082247
40	CMPK2	0.09581	ABCC2	0.073159	EFNA3	0.083011
41	ALOX15B	0.098509	XG	0.073922	MAPK10	0.090254

42	PEG10	0.10115	CLCA2	0.074607	CALCRL	0.093002
43	MPHOSPH6	0.10307	SOX10	0.075093	RHPN2	0.094352
44	PIP	0.10617	RHOJ	0.078864	PBX1	0.09452
45	IRS1	0.11116	SYCP3	0.08562	TGFB3	0.096872
46	FAR1	0.11369	TGFB3	0.085779	TIAM1	0.098509
47	GREB1	0.11373	ZBTB10	0.089758	C1orf21	0.10499
48	IFI44L	0.11688	TMC5	0.090303	FIBCD1	0.1052
49	RET	0.1175	SAA1	0.090829	CMPK2	0.10576
50	MSL1	0.1193	MPHOSPH6	0.091603	CHPT1	0.10617

- 1 Abbreviations: Mets, metastases.
- 2 Based on MAGEck algorithm. sgRNAs were scored according to their differential effects between 2 classes, early
- 3 time-point samples and late time-point samples.
- 4

Table S3. Correlation between clinicopathologic variables and expression of RhoV in FUSCC 360 cases of TNBC.

Variables	Number of patients	RhoV expression		P ^a value
		low expression n (%)	high expression n (%)	
Total	360	92	268	
Age				0.138
≤50 years	137	41	96	
>50years	223	51	172	
Menopausal status				0.0324
Premenopause	132	42	90	
Postmenopause	224	48	176	
Tumor size stage				0.7299
T1	131	31	100	
T2	219	58	161	
T3	9	3	6	
Lymph node status				0.0103
Negative	215	65	150	
Positive	143	26	117	
Grade				0.4533
1 or 2	64	14	50	
3	262	69	192	
FUSCC TNBC subtype				0.0003
BLIS	139	34	105	
IM	87	35	52	
LAR	81	9	72	
MES	53	14	39	

1 Abbreviations: FUSCC, Fudan University Shanghai Cancer Center; TNBC, Triple Negative Breast Cancer; BLIS,
2 Basal-Like Immune suppressed; LAR, Luminal-androgen receptor; IM, Immunomodulatory; MES,
3 Mesenchymal-like.

4 a. Based on Fisher exact method.

5

6

Table S4. Univariate and multivariate analysis of DFS in FUSCC TNBC subgroup.

Variables	Univariate analysis	Multivariate analysis	HR (95% CI)	P value
	HR (95% CI)	P value		
Age			Reference	
≤50 years	Reference		0.63 (0.37-1.05)	0.072
>50years	0.69 (0.42-1.14)	0.149		
Tumor size stage			Reference	
T1	Reference		1.11 (0.63-1.93)	0.718
T2	1.21 (0.70-2.11)	0.489	3.75 (1.27-11.06)	0.017
T3	3.46 (1.17-10.19)	0.024		
Lymph node status			Reference	
Negative	Reference		2.41 (1.43-4.08)	<0.001
Positive	2.52 (1.50-4.22)	<0.001		
RhoV				
Low	Reference		2.22 (1.00-4.92)	0.048
High	2.21 (1.05-4.66)	0.036		

1 Abbreviations: FUSCC, Fudan University Shanghai Cancer Center; TNBC, Triple Negative Breast Cancer;

2