

# Probe List

## HTG Transcriptome Panel



For Research Use Only. Not for use in diagnostic procedures.

A1BG	ABCC9	ACAD11	ACRV1	ADA	ADCY1	ADM2	AGL
A1CF	ABCD1	ACAD8	ACSBG1	ADA2	ADCY10	ADM5	AGMAT
A2M	ABCD2	ACAD9	ACSBG2	ADAD1	ADCY2	ADNP	AGMO
A2ML1	ABCD3	ACADL	ACSF2	ADAD2	ADCY3	ADNP2	AGO1
A3GALT2	ABCD4	ACADM	ACSF3	ADAL	ADCY4	ADO	AGO2
A4GALT	ABCE1	ACADS	ACSL1	ADAM10	ADCY5	ADORA1	AGO3
A4GNT	ABCF1	ACADSB	ACSL3	ADAM11	ADCY6	ADORA2A	AGO4
AAAS	ABCF2	ACADVL	ACSL4	ADAM12	ADCY7	ADORA2B	AGPAT1
AACS	ABCF2_ABCF2-H2BE1	ACAN	ACSL5	ADAM15	ADCY8	ADORA3	AGPAT2
AADAC	ABCF3	ACAP1	ACSL6	ADAM17	ADCY9	ADPGK	AGPAT3
AADAACL2	ABCG1	ACAP2	ACSM1	ADAM18	ADCYAP1	ADPRH	AGPAT4
AADAACL3	ABCG2	ACAP3	ACSM2A	ADAM19	ADCYAP1R1	ADPRHL1	AGPAT5
AADAACL4	ABCG4	ACAT1	ACSM2B	ADAM2	ADD1	ADPRM	AGPS
AADAT	ABCG5	ACAT2	ACSM3	ADAM20	ADD2	ADPRS	AGR2
AAGAB	ABCG8	ACBD3	ACSM4	ADAM21	ADD3	ADRA1A	AGR3
AAK1	ABHD1	ACBD4	ACSM5	ADAM22	ADGB	ADRA1B	AGRN
AAMDC	ABHD10	ACBD5	ACSM6	ADAM23	ADGRA1	ADRA1D	AGRP
AAMP	ABHD11	ACBD6	ACSS1	ADAM28	ADGRA2	ADRA2A	AGT
AANAT	ABHD12	ACBD7	ACSS2	ADAM29	ADGRA3	ADRA2B	AGTPBP1
AAR2	ABHD12B	ACCS	ACSS3	ADAM30	ADGRB1	ADRA2C	AGTR1
AARD	ABHD13	ACCSL	ACTA1	ADAM32	ADGRB2	ADRB1	AGTR2
AARS1	ABHD14A	ACD	ACTA2	ADAM33	ADGRB3	ADRB2	AGTRAP
AARS2	ABHD14A_ABHD14A-ACY1	ACE	ACTB	ADAM7	ADGRD1	ADRB3	AGXT
AARSD1	ABHD14B	ACE2	ACTBL2	ADAM8	ADGRD2	ADRM1	AGXT2
AASDH	ABHD15	ACER1	ACTC1	ADAM9	ADGRE1	ADSL	AHCTF1
AASDHPPPT	ABHD16A	ACER2	ACTG1	ADAMDEC1	ADGRE2	ADSS1	AHCY
AASS	ABHD16B	ACER3	ACTG2	ADAMTS1	ADGRE3	ADSS2	AHCYL1
AATF	ABHD17A	ACHE	ACTL10	ADAMTS10	ADGRE5	ADTRP	AHCYL2
AATK	ABHD17B	ACIN1	ACTL6A	ADAMTS12	ADGRF1	AEBP1	AHDC1
ABAT	ABHD17C	ACKR1	ACTL6B	ADAMTS13	ADGRF2	AEBP2	AH1
ABCA1	ABHD18	ACKR2	ACTL7A	ADAMTS14	ADGRF3	AEN	AHNAK
ABCA10	ABHD2	ACKR3	ACTL7B	ADAMTS15	ADGRF4	AFAP1	AHNAK2
ABCA12	ABHD3	ACKR4	ACTL8	ADAMTS16	ADGRF5	AFAP1L1	AHR
ABCA13	ABHD4	ACLY	ACTL9	ADAMTS17	ADGRG1	AFAP1L2	AHRR
ABCA2	ABHD5	ACMSD	ACTN1	ADAMTS18	ADGRG2	AFDN	AHSA1
ABCA3	ABHD6	ACO1	ACTN2	ADAMTS19	ADGRG3	AFF1	AHSG
ABCA4	ABHD8	ACO2	ACTN3	ADAMTS2	ADGRG4	AFF2	AHSP
ABCA5	ABI1	ACOD1	ACTN4	ADAMTS20	ADGRG5	AFF3	AICDA
ABCA6	ABI2	ACOT1	ACTR10	ADAMTS3	ADGRG6	AFF4	AIDA
ABCA7	ABI3	ACOT11	ACTR1A	ADAMTS4	ADGRG7	AFG1L	AIF1
ABCA8	ABI3BP	ACOT12	ACTR1B	ADAMTS5	ADGRL1	AFG3L2	AIF1L
ABCA9	ABITRAM	ACOT13	ACTR2	ADAMTS6	ADGRL2	AFM	AIFM1
ABCB1	ABL1	ACOT2	ACTR3	ADAMTS7	ADGRL3	AFMID	AIFM2
ABCB10	ABL2	ACOT4	ACTR3B	ADAMTS8	ADGRL4	AFP	AIFM3
ABCB11	ABLIM1	ACOT6	ACTR3B_ACTR3C	ADAMTS9	ADGRV1	AFTPH	AIG1
ABCB4	ABLIM2	ACOT7	ACTR5	ADAMTSL1	ADH1A	AGA	AIM2
ABCB5	ABLIM3	ACOT8	ACTR6	ADAMTSL2	ADH1B	AGAP_Family	AIMP1
ABCB6	ABO	ACOT9	ACTR8	ADAMTSL3	ADH1C	AGAP1	AIMP2
ABCB7	ABR	ACOX1	ACTRT1	ADAMTSL4	ADH4	AGAP11	AIP
ABCB8	ABRA	ACOX2	ACTRT2	ADAMTSL5	ADH5	AGAP2	AIPL1
ABCB9	ABRACL	ACOX3	ACTRT3	ADAP1	ADH6	AGAP3	AIRE
ABCC1	ABRAXAS1	ACOXL	ACVR1	ADAP2	ADH7	AGBL1	AJAP1
ABCC10	ABRAXAS2	ACP1	ACVR1B	ADAR	ADHFE1	AGBL2	AJM1
ABCC11	ABT1	ACP2	ACVR1C	ADARB1	ADI1	AGBL3	AJUBA
ABCC12	ABTB1	ACP3	ACVR2A	ADARB2	ADIG	AGBL4	AK1
ABCC2	ABTB2	ACP4	ACVR2B	ADAT1	ADIPOQ	AGBL5	AK2
ABCC3	ACAA1	ACP5	ACVRL1	ADAT2	ADIPOR1	AGER	AK3
ABCC4	ACAA2	ACP6	ACY1	ADAT3	ADIPOR2	AGFG1	AK4
ABCC5	ACACA	ACP7	ACY3	ADCK1	ADIRF	AGFG2	AK5
ABCC6	ACACB	ACR	ACYP1	ADCK2	ADK	AGGF1	AK6
ABCC8	ACAD10	ACRBP	ACYP2	ADCK5	ADM	AGK	AK7

Asterisk (\*) = non-human viral genes that have demonstrated involvement in disease development and progression.  
 Family = probe targets gene of interest and other related gene family. Contact [support@htgmolecular.com](mailto:support@htgmolecular.com) for details on genes targeted by the probe.

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AK8	ALDH5A1	AMDHD1	ANKDD1B	ANKRD54	AP1G1	APOBEC3A	ARFGAP1
AK9	ALDH6A1	AMDHD2	ANKEF1	ANKRD55	AP1G2	APOBEC3A_B	ARFGAP2
AKAIN1	ALDH7A1	AMELX	ANKFN1	ANKRD6	AP1M1	APOBEC3B	ARFGAP3
AKAP1	ALDH8A1	AMELY	ANKFY1	ANKRD60	AP1M2	APOBEC3C	ARFGEF1
AKAP10	ALDH9A1	AMER1	ANKH	ANKRD61	AP1S1	APOBEC3D	ARFGEF2
AKAP11	ALDOA	AMER2	ANKHD1_ANKHD1-	ANKRD62	AP1S2	APOBEC3F	ARFGEF3
AKAP12	ALDOB	AMER3	EIF4EBP3	ANKRD63	AP1S3	APOBEC3G	ARFIP1
AKAP13	ALDOC	AMFR	ANKHD1-EIF4EBP3	ANKRD65	AP2A1	APOBEC3H	ARFIP2
AKAP14	ALG1	AMH	ANKIB1	ANKRD66	AP2A2	APOBEC4	ARFRP1
AKAP17A	ALG10	AMHR2	ANKK1	ANKRD7	AP2B1	APOBR	ARG1
AKAP3	ALG10B	AMIG01	ANKLE1	ANKRD9	AP2M1	APOC1	ARG2
AKAP4	ALG11	AMIG02	ANKLE2	ANKS1A	AP2S1	APOC2	ARGFX
AKAP5	ALG12	AMIG03	ANKMY1	ANKS1B	AP3B1	APOC3	ARGLU1
AKAP6	ALG13	AMMECR1	ANKMY2	ANKS3	AP3B2	APOC4	ARHGAP1
AKAP7	ALG14	AMMECR1L	ANKRA2	ANKS4B	AP3D1	APOD	ARHGAP10
AKAP8	ALG1L	AMN	ANKRD1	ANKS6	AP3M1	APOE	ARHGAP11A
AKAP8L	ALG1L2	AMN1	ANKRD10	ANKUB1	AP3M2	APOF	ARHGAP11A-SCG5
AKAP9	ALG2	AMOT	ANKRD11	ANKZF1	AP3S1	APOH	ARHGAP11B
AKIP1	ALG3	AMOTL1	ANKRD12	ANLN	AP3S2	APOL1	ARHGAP12
AKIRIN1	ALG5	AMOTL2	ANKRD13A	ANO1	AP4B1	APOL2	ARHGAP15
AKIRIN2	ALG6	AMPD1	ANKRD13B	ANO10	AP4E1	APOL3	ARHGAP17
AKNA	ALG8	AMPD2	ANKRD13C	ANO2	AP4M1	APOL4	ARHGAP18
AKNAD1	ALG9	AMPD3	ANKRD13D	ANO3	AP4S1	APOL5	ARHGAP19
AKR1A1	ALK	AMPH	ANKRD16	ANO4	AP5B1	APOL6	ARHGAP20
AKR1B1	ALKAL1	AMT	ANKRD17	ANO5	AP5M1	APOLD1	ARHGAP21
AKR1B10	ALKAL2	AMTN	ANKRD18A_ANKRD18B	ANO6	AP5S1	APOM	ARHGAP22
AKR1B15	ALKBH1	AMY_Family	ANKRD18B	ANO7	AP5Z1	APOO	ARHGAP23
AKR1C_Family	ALKBH2	AMY1_Family	ANKRD2	ANO8	APAF1	APOOL	ARHGAP24
AKR1C1	ALKBH3	AMY2B	ANKRD20A1	ANO9	APBA1	APP	ARHGAP25
AKR1C2	ALKBH4	AMZ1	ANKRD22	ANOS1	APBA2	APBPB2	ARHGAP26
AKR1C4	ALKBH5	AMZ2	ANKRD23	ANP32A	APBA3	APPL1	ARHGAP27
AKR1D1	ALKBH6	ANAPC1	ANKRD24	ANP32B	APBB1	APPL2	ARHGAP28
AKR1E2	ALKBH7	ANAPC10	ANKRD26	ANP32C	APBB1IP	APRT	ARHGAP29
AKR7A2	ALKBH8	ANAPC11	ANKRD27	ANP32D	APBB2	APTX	ARHGAP30
AKR7A3	ALLC	ANAPC13	ANKRD28	ANP32E	APBB3	AQP1	ARHGAP31
AKR7L	ALMS1	ANAPC15	ANKRD29	ANPEP	APC	AQP10	ARHGAP32
AKT1	ALOX12	ANAPC16	ANKRD30A	ANTKMT	APC2	AQP11	ARHGAP33
AKT1S1	ALOX12B	ANAPC2	ANKRD30B	ANTXR1	APCDD1	AQP12A_AQP12B	ARHGAP35
AKT2	ALOX15	ANAPC4	ANKRD30BL	ANTXR2	APCDD1L	AQP2	ARHGAP36
AKT3	ALOX15B	ANAPC5	ANKRD31	ANTXRL	APCS	AQP3	ARHGAP39
AKTIP	ALOX5	ANAPC7	ANKRD33	ANXA1	APEH	AQP4	ARHGAP4
AL353689	ALOX5AP	ANG	ANKRD33B	ANXA10	APELA	AQP5	ARHGAP40
ALAD	ALOXE3	ANGEL1	ANKRD34A	ANXA11	APEX1	AQP6	ARHGAP42
ALAS1	ALPG	ANGEL2	ANKRD34B	ANXA13	APEX2	AQP7	ARHGAP44
ALAS2	ALPI	ANGPT1	ANKRD34C	ANXA2	APHTA	AQP8	ARHGAP45
ALB	ALPK1	ANGPT2	ANKRD35	ANXA2R	APHTB	AQP9	ARHGAP5
ALCAM	ALPK2	ANGPT4	ANKRD36_ANKRD36C	ANXA3	API5	AQR	ARHGAP6
ALDH16A1	ALPK3	ANGPTL1	ANKRD36B_ANKRD36C	ANXA4	APIP	AR	ARHGAP8
ALDH18A1	ALPL	ANGPTL2	ANKRD36C	ANXA5	APLF	ARAF	ARHGAP9
ALDH1A1	ALPP	ANGPTL3	ANKRD37	ANXA6	APLN	ARAP1	ARHGDI A
ALDH1A2	ALS2	ANGPTL4	ANKRD39	ANXA7	APLNR	ARAP2	ARHGDI B
ALDH1A3	ALS2CL	ANGPTL5	ANKRD40	ANXA8_ ANXA8L1	APLP1	ARAP3	ARHGDI G
ALDH1B1	ALX1	ANGPTL6	ANKRD40CL	ANXA9	APLP2	ARC	ARHGEF1
ALDH1L1	ALX3	ANGPTL7	ANKRD42	AOAH	APMAP	ARCNT1	ARHGEF10
ALDH1L2	ALX4	ANGPTL8	ANKRD44	AOC1	APOA1	AREG	ARHGEF10L
ALDH2	ALYREF	ANHX	ANKRD45	AOC2	APOA2	AREL1	ARHGEF11
ALDH3A1	AMACR	ANK1	ANKRD46	AOC3	APOA4	ARF1	ARHGEF12
ALDH3A2	AMBN	ANK2	ANKRD49	AOPEP	APOA5	ARF3	ARHGEF15
ALDH3B1	AMBP	ANK3	ANKRD50	AOX1	APOB	ARF4	ARHGEF16
ALDH3B2	AMBRA1	ANKAR	ANKRD52	APTAR	APOBEC1	ARF5	ARHGEF17
ALDH4A1	AMD1	ANKDD1A	ANKRD53	AP1B1	APOBEC2	ARF6	ARHGEF18

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ARHGEF19	ARMC2	ARVCF	ASPN	ATOX1	ATP6V0D1	AVPI1	BAG3
ARHGEF2	ARMC3	ARX	ASPRV1	ATP10A	ATP6V0D2	AVPR1A	BAG4
ARHGEF25	ARMC4	AS3MT	ASPSCR1	ATP10B	ATP6V0E1	AVPR1B	BAG5
ARHGEF26	ARMC5	ASAH1	ASRGL1	ATP10D	ATP6V0E2	AVPR2	BAG6
ARHGEF28	ARMC6	ASAH2	ASS1	ATP11A	ATP6V1A	AWAT1	BAGE
ARHGEF3	ARMC7	ASAH2B	ASTE1	ATP11B	ATP6V1B1	AWAT2	BAGE3
ARHGEF33	ARMC8	ASAP1	ASTL	ATP11C	ATP6V1B2	AXDND1	BAGE4_BAGE5
ARHGEF35	ARMC9	ASAP2	ASTN1	ATP12A	ATP6V1C1	AXIN1	BAHCC1
ARHGEF37	ARMCX1	ASAP3	ASTN2	ATP13A1	ATP6V1C2	AXIN2	BAHD1
ARHGEF38	ARMCX2	ASB1	ASXL1	ATP13A2	ATP6V1D	AXL	BAIAP2
ARHGEF39	ARMCX3	ASB10	ASXL2	ATP13A3	ATP6V1E1	AZGP1	BAIAP2L1
ARHGEF4	ARMCX4	ASB11	ASXL3	ATP13A4	ATP6V1E2	AZ12	BAIAP2L2
ARHGEF40	ARMCX5	ASB12	ASZ1	ATP13A5	ATP6V1F	AZIN1	BAIAP3
ARHGEF5	ARMCX5-GPRASP2	ASB13	ATAD1	ATP1A1	ATP6V1FNB	AZIN2	BAK1
ARHGEF6	ARMCX6	ASB14	ATAD2	ATP1A2	ATP6V1G1	AZU1	BAMBI
ARHGEF7	ARMH1	ASB15	ATAD2B	ATP1A3	ATP6V1G2	B2M	BANF1
ARHGEF9	ARMH2	ASB16	ATAD3A	ATP1A4	ATP6V1G3	B3GALNT1	BANF2
ARID1A	ARMH3	ASB17	ATAD3B	ATP1B1	ATP6V1H	B3GALNT2	BANK1
ARID1B	ARMH4	ASB18	ATAD3C	ATP1B2	ATP7A	B3GALT1	BANP
ARID2	ARMS2	ASB2	ATAD5	ATP1B3	ATP7B	B3GALT2	BAP1
ARID3A	ARMT1	ASB3	ATAT1	ATP1B4	ATP8A1	B3GALT4	BARD1
ARID3B	ARNT	ASB3_GPR75-ASB3	ATCAY	ATP23	ATP8A2	B3GALT5	BARHL1
ARID3C	ARNT2	ASB4	ATE1	ATP2A1	ATP8B1	B3GALT6	BARHL2
ARID4A	ARNTL	ASB5	ATF1	ATP2A2	ATP8B2	B3GAT1	BARX1
ARID4B	ARNTL2	ASB6	ATF2	ATP2A3	ATP8B3	B3GAT2	BARX2
ARID5A	ARPC1A	ASB7	ATF3	ATP2B1	ATP8B4	B3GAT3	BASP1
ARID5B	ARPC1B	ASB8	ATF4	ATP2B2	ATP9A	B3GLCT	BATF
ARIH1	ARPC2	ASB9	ATF5	ATP2B3	ATP9B	B3GNT2	BATF2
ARIH2	ARPC3	ASCC1	ATF6	ATP2B4	ATPAF1	B3GNT3	BATF3
ARL1	ARPC4	ASCC2	ATF6B	ATP2C1	ATPAF2	B3GNT4	BAX
ARL10	ARPC4_ARPC4-TTLL3	ASCC3	ATF7	ATP2C2	ATPSCKMT	B3GNT5	BAZ1A
ARL11	ARPC5	ASCL1	ATF7IP	ATP4A	ATR	B3GNT6	BAZ1B
ARL13A	ARPC5L	ASCL2	ATF7IP2	ATP4B	ATRAID	B3GNT7	BAZ2A
ARL13B	ARPIN	ASCL3	ATG10	ATP5F1A	ATRIP	B3GNT8	BAZ2B
ARL14	ARPIN-AP3S2	ASCL4	ATG101	ATP5F1B	ATRN	B3GNT9	BBC3
ARL14EP	ARPP19	ASCL5	ATG12	ATP5F1C	ATRN1	B3GNTL1	BBIP1
ARL14EPL	ARPP21	ASDURF_ASNSD1	ATG13	ATP5F1D	ATRX	B4GALNT1	BBOF1
ARL15	ARR3	ASF1A	ATG14	ATP5F1E	ATXN1	B4GALNT2	BBOX1
ARL16	ARRB1	ASF1B	ATG16L1	ATP5F1F	ATXN10	B4GALNT3	BBS1
ARL17A_ARL17B	ARRB2	ASGR1	ATG16L2	ATP5MC1	ATXN1L	B4GALNT4	BBS10
ARL17B	ARRDC1	ASGR2	ATG2A	ATP5MC2	ATXN2	B4GALT1	BBS12
ARL2	ARRDC2	ASH1L	ATG2B	ATP5MC3	ATXN2L	B4GALT2	BBS2
ARL2BP	ARRDC3	ASH2L	ATG3	ATP5MD	ATXN3	B4GALT3	BBS4
ARL3	ARRDC4	ASIC1	ATG4A	ATP5ME	ATXN3L	B4GALT4	BBS5
ARL4A	ARRDC5	ASIC2	ATG4B	ATP5MF	ATXN7	B4GALT5	BBS7
ARL4C	ARSA	ASIC3	ATG4C	ATP5MF-PTCD1	ATXN7L1	B4GALT6	BBS9
ARL4D	ARSB	ASIC4	ATG4D	ATP5MG	ATXN7L2	B4GALT7	BBX
ARL5A	ARSD	ASIC5	ATG5	ATP5MGL	ATXN7L3	B4GAT1	BCAM
ARL5B	ARSF	ASIP	ATG7	ATP5MPL	ATXN7L3B	B9D1	BCAN
ARL5C	ARSG	ASL	ATG9A	ATP5PB	AUH	B9D2	BCAP29_DUS4L-BCAP29
ARL6	ARSH	ASMT	ATG9B	ATP5PD	AUNIP	BAALC	BCAP31
ARL6IP1	ARSI	ASMTL	ATIC	ATP5PF	AUP1	BAAT	BCAR1
ARL6IP4	ARSJ	ASNS	ATL1	ATP5PO	AURKA	BABAM1	BCAR3
ARL6IP5	ARSK	ASNSD1	ATL2	ATP6AP1	AURKAIP1	BABAM2	BCAS1
ARL6IP6	ARSL	ASPA	ATL3	ATP6AP1L	AURKB	BACE1	BCAS2
ARL8A	ART1	ASPDH	ATM	ATP6AP2	AURKC	BACE2	BCAS3
ARL8B	ART3	ASPG	ATMIN	ATP6V0A1	AUTS2	BACH1	BCAS4
ARL9	ART4	ASPH	ATN1	ATP6V0A2	AVEN	BACH2	BCAT1
ARMC1	ART5	ASPHD1	ATOH1	ATP6V0A4	AVIL	BAD	BCAT2
ARMC10	ARTN	ASPHD2	ATOH7	ATP6V0B	AVL9	BAG1	BCCIP
ARMC12	ARV1	ASPM	ATOH8	ATP6V0C	AVP	BAG2	BCCIN3D

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Continued

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BCHE	BFAR	BMP6	BRD4	BTN2A1	C12orf40	C17orf78	C1orf53
BCKDHA	BFSP1	BMP7	BRD7	BTN2A2	C12orf42	C17orf80	C1orf54
BCKDHB	BFSP2	BMP8A	BRD8	BTN3A1	C12orf43	C17orf97	C1orf56
BCKDK	BGLAP	BMP8B	BRD9	BTN3A2	C12orf45	C17orf98	C1orf61
BCL10	BGN	BMPER	BRDT	BTN3A3	C12orf49	C17orf99	C1orf68
BCL11A	BHLHA15	BMPR1A	BRF1	BTNL10	C12orf50	C18orf12	C1orf74
BCL11B	BHLHA9	BMPR1B	BRF2	BTNL2	C12orf54	C18orf21	C1orf87
BCL2	BHLHB9_ARMCX5-	BMPR2	BRI3	BTNL3	C12orf56	C18orf25	C1orf94
BCL2A1	GPRASP2	BMS1	BRI3BP	BTNL8	C12orf57	C18orf32	C1QA
BCL2L1	BHLHE22	BMT2	BRICD5	BTNL9	C12orf60	C18orf54	C1QB
BCL2L10	BHLHE23	BMX	BRINP1	BTRC	C12orf65	C18orf63	C1QBP
BCL2L11	BHLHE40	BNC1	BRINP2	BUB1	C12orf66	C19orf12	C1QC
BCL2L12	BHLHE41	BNC2	BRINP3	BUB1B	C12orf71	C19orf18	C1QL1
BCL2L13	BHMG1	BNIP1	BRIP1	BUB1B-PAK6	C12orf73	C19orf25	C1QL2
BCL2L14	BHMT	BNIP2	BRIX1	BUB3	C12orf74	C19orf33	C1QL3
BCL2L15	BHMT2	BNIP3	BRK1	BUD13	C12orf75	C19orf38	C1QL4
BCL2L2	BICC1	BNIP3L	BRMS1	BUD23	C12orf76	C19orf44	C1QTNF1
BCL2L2-PABPN1	BICD1	BNIP5	BRMS1L	BUD31	C12orf77	C19orf47	C1QTNF12
BCL3	BICD2	BNIPL	BROX	BVES	C13orf42	C19orf48	C1QTNF2
BCL6	BICDL1	BOC	BRPF1	BYSL	C13orf46	C19orf53	C1QTNF3
BCL6B	BICDL2	BOD1	BRPF3	BZWI	C14orf119	C19orf54	C1QTNF4
BCL7A	BICRA	BOD1L1	BRS3	BZW2	C14orf132	C19orf57	C1QTNF5_MFRP
BCL7B	BICRAL	BOD1L2	BRSK1	C10orf105	C14orf180	C19orf67	C1QTNF6
BCL7C	BID	BOK	BRSK2	C10orf120	C14orf28	C19orf71	C1QTNF7
BCL9	BIK	BOLA1	BRWD1	C10orf143	C14orf39	C19orf73	C1QTNF8
BCL9L	BIN1	BOLA2_BOLA2B	BRWD3	C10orf53	C14orf93	C19orf81	C1QTNF9
BCLAF1	BIN2	BOLA2_BOLA2-SMG1P6	BSCL2	C10orf62	C15orf39	C19orf84	C1QTNF9_C1QTNF9B
BCLAF3	BIN3	BOLA3	BSDC1	C10orf67	C15orf40	C1D	C1R
BCO1	BIRC2	BOLL	BSG	C10orf71	C15orf41	C1GALT1	C1RL
BCO2	BIRC3	BOP1	BSN	C10orf82	C15orf48	C1GALT1C1	C1S
BCOR	BIRC5	BORA	BSND	C10orf88	C15orf61	C1GALT1C1L	C2
BCORL1	BIRC6	BORCS5	BSPH1	C10orf90	C15orf62	C1orf100	C20orf141
BCR	BIRC7	BORCS6	BSPRY	C10orf95	C15orf65	C1orf105	C20orf144
BCS1L	BIVM	BORCS7	BST1	C10orf99	C16orf46	C1orf109	C20orf173
BDH1	BIVM_BIVM-ERCC5	BORCS8	BST2	C11orf1	C16orf54	C1orf112	C20orf194
BDH2	BLCAP	BORCS8_BORCS8-MEF2B	BSX	C11orf16	C16orf58	C1orf115	C20orf202
BDKRB1	BLID	BPGM	BTAF1	C11orf21	C16orf70	C1orf116	C20orf203
BDKRB2	BLK	BPHL	BTBD1	C11orf24	C16orf71	C1orf122	C20orf204
BDNF	BLM	BPI	BTBD10	C11orf42	C16orf72	C1orf127	C20orf27
BDP1	BLMH	BPIFA1	BTBD11	C11orf45	C16orf74	C1orf131	C20orf85
BEAN1	BLNK	BPIFA2	BTBD16	C11orf49	C16orf78	C1orf141	C20orf96
BECN1	BLOC1S1	BPIFA3	BTBD17	C11orf52	C16orf82	C1orf146	C21orf58
BECN2	BLOC1S2	BPIFB1	BTBD18	C11orf53	C16orf86	C1orf158	C21orf62
BEGAIN	BLOC1S3	BPIFB2	BTBD19	C11orf54	C16orf87	C1orf159	C21orf91
BEND2	BLOC1S4	BPIFB3	BTBD2	C11orf58	C16orf89	C1orf162	C22orf15
BEND3	BLOC1S5	BPIFB4	BTBD3	C11orf65	C16orf90	C1orf167	C22orf23
BEND4	BLOC1S6	BPIFB6	BTBD6	C11orf68	C16orf91	C1orf174	C22orf24
BEND5	BLVRA	BPIFC	BTBD7	C11orf71	C16orf92	C1orf185	C22orf31
BEND6	BLVRB	BPNT1	BTBD8	C11orf80	C16orf95	C1orf189	C22orf34
BEND7	BLZF1	BPTF	BTBD9	C11orf86	C16orf96	C1orf194	C22orf39
BEST1	BMERB1	BPY2_Family	BTC	C11orf87	C17orf100	C1orf195	C22orf42
BEST2	BMF	BRAF	BTD	C11orf88	C17orf107	C1orf198	C2CD2
BEST3	BMI1	BRAP	BTF3	C11orf91	C17orf113	C1orf21	C2CD2L
BEST4	BMP1	BRAT1	BTF3L4	C11orf94	C17orf49	C1orf210	C2CD3
BET1	BMP10	BRCA1	BTG1	C11orf95	C17orf50	C1orf216	C2CD4A
BET1L	BMP15	BRCA2	BTG2	C11orf96	C17orf53	C1orf226	C2CD4B
BEX1	BMP2	BRCC3	BTG3	C11orf97	C17orf58	C1orf232	C2CD4C
BEX2	BMP2K	BRD1	BTG4	C11orf98	C17orf64	C1orf35	C2CD4D
BEX3	BMP3	BRD2	BTk	C12orf10	C17orf67	C1orf43	C2CD5
BEX4	BMP4	BRD3	BTLA	C12orf29	C17orf75	C1orf50	C2CD6
BEX5	BMP5	BRD3OS	BTN1A1	C12orf4	C17orf77	C1orf52	C2orf15

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# Probe List

## HTG Transcriptome Panel



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C2orf16	C5orf38	C9orf43	CACNG3	CAMSAP2	CASK	CBX1	CCDC159
C2orf27A	C5orf46	C9orf47	CACNG4	CAMSAP3	CASKIN1	CBX2	CCDC160
C2orf42	C5orf47	C9orf50	CACNG5	CAMTA1	CASKIN2	CBX3	CCDC163
C2orf49	C5orf49	C9orf57	CACNG6	CAMTA2	CASP1	CBX4	CCDC166
C2orf50	C5orf51	C9orf62	CACNG7	CAND1	CASP10	CBX5	CCDC167
C2orf66	C5orf52	C9orf64	CACNG8	CAND2	CASP12	CBX6	CCDC168
C2orf68	C5orf58	C9orf72	CACTIN	CANT1	CASP14	CBX7	CCDC169-CCDC169-SOHLH2
C2orf69	C5orf60	C9orf78	CACUL1	CANX	CASP2	CBX8	SOHLH2
C2orf72	C5orf63	C9orf85	CACYBP	CAP1	CASP3	CBY1	CCDC169-SOHLH2_
C2orf73	C6	C9orf92	CAD	CAP2	CASP4	CBY2	SOHLH2
C2orf74	C6orf118	CA1	CADM1	CAPG	CASP5	CBY3	CCDC17
C2orf76	C6orf120	CA10	CADM2	CAPN1	CASP6	CC2D1A	CCDC170
C2orf78	C6orf132	CA11	CADM3	CAPN10	CASP7	CC2D1B	CCDC171
C2orf80	C6orf136	CA12	CADM4	CAPN11	CASP8	CC2D2A	CCDC172
C2orf81	C6orf141	CA13	CADPS	CAPN12	CASP8AP2	CC2D2B	CCDC173
C2orf83	C6orf15	CA14	CADPS2	CAPN13	CASP9	CCAR1	CCDC174
C2orf88	C6orf163	CA2	CAGE1	CAPN14	CASQ1	CCAR2	CCDC175
C2orf92	C6orf201	CA3	CALB1	CAPN15	CASQ2	CCBE1	CCDC177
C3	C6orf226	CA4	CALB2	CAPN2	CASR	CCDC102A	CCDC178
C3AR1	C6orf47	CA5A	CALCA	CAPN3	CASS4	CCDC102B	CCDC179
C3orf14	C6orf52	CA5B	CALCB	CAPN5	CAST	CCDC103	CCDC18
C3orf18	C6orf58	CA6	CALCOCO1	CAPN6	CASTOR1	CCDC105	CCDC180
C3orf20	C6orf62	CA7	CALCOCO2	CAPN7	CASTOR2	CCDC106	CCDC181
C3orf22	C6orf89	CA8	CALCR	CAPN8	CASZ1	CCDC107	CCDC182
C3orf33	C7	CA9	CALCRL	CAPN9	CAT	CCDC110	CCDC183
C3orf35	C7orf25	CAAP1	CALD1	CAPNS1	CATIP	CCDC112	CCDC184
C3orf38	C7orf26	CAB39	CALHM1	CAPNS2	CATSPER1	CCDC113	CCDC185
C3orf49	C7orf31	CAB39L	CALHM2	CAPRN1	CATSPER2	CCDC114	CCDC186
C3orf52	C7orf33	CABCOC01	CALHM3	CAPRN2	CATSPER3	CCDC115	CCDC187
C3orf56	C7orf50	CABIN1	CALHM4	CAPS	CATSPER4	CCDC116	CCDC188
C3orf62	C7orf57	CABLES1	CALHM5	CAPS2	CATSPERB	CCDC117	CCDC189
C3orf67	C7orf61	CABLES2	CALHM6	CAPSL	CATSPERD	CCDC12	CCDC190
C3orf70	C7orf65	CABP1	CALM1	CAPZA1	CATSPERE	CCDC120	CCDC191
C3orf80	C7orf66	CABP2	CALM2	CAPZA2	CATSPERG	CCDC121	CCDC192
C3orf84	C8A	CABP4	CALM3	CAPZA3	CATSPERZ	CCDC122	CCDC194
C3orf85	C8B	CABP5	CALML3	CAPZB	CAV1	CCDC124	CCDC196
C3orf86	C8G	CABP7	CALML4	CARD10	CAV2	CCDC125	CCDC197
C4A	C8orf33	CABS1	CALML5	CARD11	CAV3	CCDC126	CCDC198
C4B_C4B_2	C8orf34	CABYR	CALML6	CARD14	CAVIN1	CCDC127	CCDC200
C4BPA	C8orf37	CACFD1	CALN1	CARD16	CAVIN2	CCDC13	CCDC22
C4BPB	C8orf44-SGK3	CACHD1	CALR	CARD17	CAVIN3	CCDC130	CCDC24
C4orf17	C8orf48	CACNA1A	CALR3	CARD18	CAVIN4	CCDC134	CCDC25
C4orf19	C8orf49	CACNA1B	CALU	CARD19	CBARP	CCDC136	CCDC27
C4orf3	C8orf58	CACNA1C	CALY	CARD6	CBFA2T2	CCDC137	CCDC28A
C4orf33	C8orf74	CACNA1D	CAMK1	CARD8	CBFA2T3	CCDC138	CCDC28B
C4orf36	C8orf76	CACNA1E	CAMK1D	CARD9	CBFB	CCDC14	CCDC3
C4orf45	C8orf82	CACNA1F	CAMK1G	CARF	CBL	CCDC141	CCDC30
C4orf46	C8orf88	CACNA1G	CAMK2A	CARHSP1	CBLB	CCDC142	CCDC32
C4orf47	C8orf89	CACNATH	CAMK2B	CARM1	CBLC	CCDC144A	CCDC33
C4orf48	C9	CACNA1I	CAMK2D	CARMIL1	CBLIF	CCDC146	CCDC34
C4orf50	C9orf116	CACNA1S	CAMK2G	CARMIL2	CBLL1	CCDC148	CCDC36
C4orf51	C9orf131	CACNA2D1	CAMK2N1	CARMIL3	CBLL2	CCDC149	CCDC38
C4orf54	C9orf135	CACNA2D2	CAMK2N2	CARNMT1	CBLN1	CCDC15	CCDC39
C5	C9orf139	CACNA2D3	CAMK4	CARNS1	CBLN2	CCDC150	CCDC40
C5AR1	C9orf147	CACNA2D4	CAMKK1	CARS1	CBLN3	CCDC151	CCDC42
C5AR2	C9orf152	CACNB1	CAMKK2	CARS2	CBLN4	CCDC152	CCDC43
C5orf15	C9orf153	CACNB2	CAMKMT	CARTPT	CBR1	CCDC153	CCDC47
C5orf22	C9orf16	CACNB3	CAMKV	CASC1	CBR3	CCDC154	CCDC50
C5orf24	C9orf163	CACNB4	CAMLG	CASC3	CBR4	CCDC155	CCDC51
C5orf30	C9orf24	CACNG1	CAMP	CASC4	CBS_CBSL	CCDC157	CCDC54
C5orf34	C9orf40	CACNG2	CAMSAP1	CASD1	CBWD_Family	CCDC158	CCDC57

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CCDC58	CCL21	CCR6	CD300LG	CDC25A	CDHR5	CDT1	CENPP
CCDC59	CCL22	CCR7	CD302	CDC25B	CDIP1	CDV3	CENPQ
CCDC6	CCL23	CCR8	CD320	CDC25C	CDIPT	CDX1	CENPS
CCDC60	CCL24	CCR9	CD33	CDC26	CDK1	CDX2	CENPS-CORT
CCDC61	CCL25	CCRL2	CD34	CDC27	CDK10	CDX4	CENPT
CCDC62	CCL26	CCS	CD36	CDC34	CDK11A	CDY_Family	CENPU
CCDC63	CCL27	CCSAP	CD37	CDC37	CDK11A_CDK11B	CDYL	CENPV
CCDC65	CCL28	CCSER1	CD38	CDC37L1	CDK12	CDYL2	CENPVL_Family
CCDC66	CCL3	CCSER2	CD3D	CDC40	CDK13	CEACAM1	CENPVL3
CCDC68	CCL3_Family	CCT2	CD3E	CDC42	CDK14	CEACAM16	CENPW
CCDC69	CCL4	CCT3	CD3EAP	CDC42BPA	CDK15	CEACAM18	CENPX
CCDC7	CCL4_Family	CCT4	CD3G	CDC42BPB	CDK16	CEACAM19	CEP104
CCDC70	CCL5	CCT5	CD4	CDC42BPG	CDK17	CEACAM20	CEP112
CCDC71	CCL7	CCT6A	CD40	CDC42EP1	CDK18	CEACAM21	CEP120
CCDC71L	CCL8	CCT6B	CD40LG	CDC42EP2	CDK19	CEACAM3	CEP126
CCDC73	CCM2	CCT7	CD44	CDC42EP3	CDK2	CEACAM4	CEP128
CCDC74A_CCDC74B	CCM2L	CCT8	CD46	CDC42EP4	CDK20	CEACAM5	CEP131
CCDC77	CCN1	CCT8L2	CD47	CDC42EP5	CDK2AP1	CEACAM6	CEP135
CCDC78	CCN2	CCZ1_CCZ1B	CD48	CDC42SE1	CDK2AP2	CEACAM7	CEP152
CCDC8	CCN3	CD101	CD5	CDC42SE2	CDK3	CEACAM8	CEP162
CCDC80	CCN4	CD109	CD52	CDC45	CDK4	CEBPA	CEP164
CCDC81	CCN5	CD14	CD53	CDC5L	CDK5	CEBPB	CEP170
CCDC82	CCN6	CD151	CD55	CDC6	CDK5R1	CEBPD	CEP170B
CCDC83	CCNA1	CD160	CD58	CDC7	CDK5R2	CEBPE	CEP19
CCDC84	CCNA2	CD163	CD59	CDC73	CDK5RAP1	CEBPG	CEP192
CCDC85A	CCNB1	CD163L1	CD5L	CDCA2	CDK5RAP2	CEBPZ	CEP250
CCDC85B	CCNB1IP1	CD164	CD6	CDCA3	CDK5RAP3	CEBPZOS	CEP290
CCDC85C	CCNB2	CD164L2	CD63	CDCA4	CDK6	CECR2	CEP295
CCDC86	CCNB3	CD177	CD68	CDCA5	CDK7	CEL	CEP295NL
CCDC87	CCNC	CD180	CD69	CDCA7	CDK8	CELA1	CEP350
CCDC88A	CCND1	CD19	CD7	CDCA7L	CDK9	CELA2A	CEP41
CCDC88B	CCND2	CD1A	CD70	CDCA8	CDKAL1	CELA2B	CEP44
CCDC88C	CCND3	CD1B	CD72	CDCP1	CDKL1	CELA3A	CEP55
CCDC89	CCNDBP1	CD1C	CD74	CDCP2	CDKL2	CELA3A_CELA3B	CEP57
CCDC9	CCNE1	CD1D	CD79A	CDH1	CDKL3	CELF1	CEP57L1
CCDC90B	CCNE2	CD1E	CD79B	CDH10	CDKL4	CELF2	CEP63
CCDC91	CCNF	CD2	CD8	CDH11	CDKL5	CELF3	CEP68
CCDC92	CCNG1	CD200	CD81	CDH12	CDKN1A	CELF4	CEP70
CCDC92B	CCNG2	CD200R1	CD82	CDH13	CDKN1B	CELF5	CEP72
CCDC93	CCNH	CD200R1L	CD83	CDH15	CDKN1C	CELF6	CEP76
CCDC96	CCNI	CD207	CD84	CDH16	CDKN2A	CELSR1	CEP78
CCDC97	CCNI2	CD209	CD86	CDH17	CDKN2AIP	CELSR2	CEP83
CCDC98	CCNJ	CD22	CD8A	CDH18	CDKN2AIPNL	CELSR3	CEP85
CCER1	CCNJL	CD226	CD8B	CDH19	CDKN2B	CEMIP	CEP85L
CCER2	CCNK	CD24	CD8B_CD8B2	CDH2	CDKN2C	CEMIP2	CEP89
CCHCR1	CCNL1	CD244	CD9	CDH20	CDKN2D	CEMP1	CEP95
CCIN	CCNL2	CD247	CD93	CDH22	CDKN3	CEND1	CEP97
CCK	CCNO	CD248	CD96	CDH23	CDNF	CENPA	CEPT1
CCKAR	CCNQ	CD27	CD99	CDH24	CDO1	CENPB	CER1
CCKBR	CCNT1	CD274	CD99L2	CDH26	CDON	CENPBD1	CERCAM
CCL1	CCNT2	CD276	CDA	CDH3	CDPF1	CENPC	CERK
CCL11	CCNY	CD28	CDADC1	CDH4	CDR1	CENPE	CERKL
CCL13	CCNYL1	CD2AP	CDAN1	CDH5	CDR2	CENPF	CERS1_GDF1
CCL14	CCP110	CD2BP2	CDC123	CDH6	CDR2L	CENPH	CERS2
CCL15	CCPG1	CD300A	CDC14A	CDH7	CDRT1	CENPI	CERS3
CCL16	CCR1	CD300C	CDC14B	CDH8	CDRT15	CENPJ	CERS4
CCL17	CCR10	CD300E	CDC14B_CDC14C	CDH9	CDRT15L2	CENPK	CERS5
CCL18	CCR2	CD300H	CDC16	CDHR1	CDRT4	CENPL	CERS6
CCL19	CCR3	CD300LB	CDC20	CDHR2	CDS1	CENPM	CERT1
CCL2	CCR4	CD300LD	CDC20B	CDHR3	CDS2	CENPN	CES1
CCL20	CCR5	CD300LF	CDC23	CDHR4	CDSN	CENPO	CES1_LOC107987423

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CES2	CGB3_CGB7	CHMP4A	CHUK	CLCN6	CLHC1	CMPK1	CNR2
CES3	CGB5	CHMP4B	CHURC1	CLCN7	CLIC1	CMPK2	CNRIP1
CES4A	CGB7	CHMP4C	CHURC1_CHURC1-FNTB	CLCNKA	CLIC2	CMSS1	CNST
CES5A	CGB8	CHMP5	CIA01	CLCNKB	CLIC3	CMTM1	CNTD1
CETN1	CGGBP1	CHMP6	CIA02A	CLDN1	CLIC4	CMTM2	CNTD2
CETN2	CGN	CHMP7	CIA02B	CLDN10	CLIC5	CMTM3	CNTF
CETN3	CGNL1	CHN1	CIA03	CLDN11	CLIC6	CMTM4	CNTFR
CETP	CGREF1	CHN2	CIAPIN1	CLDN12	CLINT1	CMTM5	CNTLN
CFAP100	CGRRF1	CHODL	CIART	CLDN14	CLIP1	CMTM6	CNTN1
CFAP126	CH25H	CHORDC1	CIB1	CLDN15	CLIP2	CMTM7	CNTN2
CFAP157	CH507-42P11.6	CHP1	CIB2	CLDN16	CLIP3	CMTM8	CNTN3
CFAP161	CHAC1	CHP2	CIB3	CLDN17	CLIP4	CMTR1	CNTN4
CFAP20	CHAC2	CHPF	CIB4	CLDN18	CLK1	CMTR2	CNTN5
CFAP206	CHAD	CHPF2	CIC	CLDN19	CLK2	CMYA5	CNTN6
CFAP221	CHADL	CHPT1	CIDEA	CLDN2	CLK3	CNBD1	CNTNAP1
CFAP298	CHAF1A	CHRA1	CIDEB	CLDN20	CLK4	CNBD2	CNTNAP2
CFAP298-TCP10L	CHAF1B	CHRD	CIDEC	CLDN22	CLMN	CNBP	CNTNAP3_CNTNAP3B
CFAP299	CHAMP1	CHRD1	CIITA	CLDN23	CLMP	CNDP1	CNTNAP4
CFAP300	CHAT	CHRD2	CILK1	CLDN24	CLN3	CNDP2	CNTNAP5
CFAP36	CHCHD1	CHRFAM7A	CILP	CLDN25	CLN5	CNEP1R1	CNTRL
CFAP410	CHCHD10_PLEKHH1	CHRM1	CILP2	CLDN3	CLN6	CNFN	CNTR0B
CFAP43	CHCHD2	CHRM2	CINP	CLDN34	CLN8	CNGA1	COA1
CFAP44	CHCHD3	CHRM3	CIP2A	CLDN4	CLNK	CNGA2	COA3
CFAP45	CHCHD4	CHRM4	CIPC	CLDN5	CLNS1A	CNGA3	COA4
CFAP46	CHCHD5	CHRM5	CIR1	CLDN6	CLOCK	CNGA4	COA5
CFAP47	CHCHD6	CHRNA1	CIRBP	CLDN7	CLP1	CNGB1	COA6
CFAP52	CHCHD7	CHRNA10	CISD1	CLDN8	CLPB	CNGB3	COA7
CFAP53	CHD1	CHRNA2	CISD2	CLDN9	CLPP	CNIH1	COA8
CFAP54	CHD1L	CHRNA3	CISD3	CLDND1	CLPS	CNIH2	COASY
CFAP57	CHD2	CHRNA4	CISH	CLDND2	CLPSL1	CNIH3	COBL
CFAP58	CHD3	CHRNA5	CIT	CLEC10A	CLPSL2	CNIH4	COBLL1
CFAP61	CHD4	CHRNA6	CITED1	CLEC11A	CLPTM1	CNKSR1	COCH
CFAP65	CHD5	CHRNA7	CITED2	CLEC12A	CLPTM1L	CNKSR2	COG1
CFAP69	CHD6	CHRNA9	CITED4	CLEC12B	CLPX	CNKSR3	COG2
CFAP70	CHD7	CHRN1	CIZ1	CLEC14A	CLRN1	CNMD	COG3
CFAP73	CHD8	CHRN2	CKAP2	CLEC16A	CLRN2	CNN1	COG4
CFAP74	CHD9	CHRN3	CKAP2L	CLEC17A	CLRN3	CNN2	COG5
CFAP77	CHDH	CHRN4	CKAP4	CLEC18_Family	CLSPN	CNN3	COG6
CFAP97	CHEK1	CHRNA10	CKAP5	CLEC19A	CLSTN1	CNNM1	COG7
CFAP97D1	CHEK2	CHRNA11	CKB	CLEC1A	CLSTN2	CNNM2	COG8
CFAP97D2	CHERP	CHRNA12	CKLF_CKLF-CMTM1	CLEC1B	CLSTN3	CNNM3	COIL
CFAP99	CHFR	CHST1	CKM	CLEC2A	CLTA	CNNM4	COL10A1
CFB	CHGA	CHST10	CKMT1A_CKMT1B	CLEC2B	CLTB	CNOT1	COL11A1
CFC1_CFC1B	CHGB	CHST11	CKMT2	CLEC2D	CLTC	CNOT10	COL11A2
CFD	CHI3L1	CHST12	CKS1B	CLEC2L	CLTCL1	CNOT11	COL12A1
CFDP1	CHI3L2	CHST13	CKS2	CLEC3A	CLTRN	CNOT2	COL13A1
CFH	CHIA	CHST14	CLASP1	CLEC3B	CLU	CNOT3	COL14A1
CFH_CFHR1	CHIC1	CHST15	CLASP2	CLEC4A	CLUAP1	CNOT4	COL15A1
CFHR2	CHIC2	CHST2	CLASRP	CLEC4C	CLUH	CNOT6	COL16A1
CFHR3	CHID1	CHST3	CLBA1	CLEC4D	CLUL1	CNOT6L	COL17A1
CFHR4	CHIT1	CHST4	CLC	CLEC4E	CLVS1	CNOT7	COL18A1
CFHR5	CHKA	CHST5	CLCA1	CLEC4F	CLVS2	CNOT8	COL19A1
CFI	CHKB	CHST6	CLCA2	CLEC4G	CLYBL	CNOT9	COL1A1
CFL1	CHL1	CHST7	CLCA4	CLEC4M	CMA1	CNP	COL1A2
CFL2	CHM	CHST8	CLCC1	CLEC4O	CMAS	CNPPD1	COL20A1
CFLAR	CHML	CHST9	CLCF1	CLEC5A	CMBL	CNPY1	COL21A1
CFP	CHMP1A	CHSY1	CLCN1	CLEC6A	CMC1	CNPY2	COL22A1
CFTR	CHMP1B	CHSY3	CLCN2	CLEC7A	CMC2	CNPY3	COL23A1
CGA	CHMP2A	CHTF18	CLCN3	CLEC9A	CMC4	CNPY3_CNPY3-GNMT	COL24A1
CGAS	CHMP2B	CHTF8_DERPC	CLCN4	CLECL1	CMIP	CNPY4	COL25A1
CGB1_CGB2	CHMP3	CHTOP	CLCN5	CLGN	CMKLR1	CNR1	COL26A1

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Continued

COL27A1	COPS7B	CPB1	CRB1	CRYAB	CSPG4	CTNND2	CXCL10
COL28A1	COPS8	CPB2	CRB2	CRYBA1	CSPG5	CTNS	CXCL11
COL2A1	COPS9	CPD	CRB3	CRYBA2	CSPP1	CTPS1	CXCL12
COL3A1	COPZ1	CPE	CRBN	CRYBA4	CSRNP1	CTPS2	CXCL13
COL4A1	COPZ2	CPEB1	CRCP	CRYBB1	CSRNP2	CTR9	CXCL14
COL4A2	COQ10A	CPEB2	CRCT1	CRYBB2	CSRNP3	CTRB1_CTRB2	CXCL16
COL4A2-AS2_0003976	COQ10B	CPEB3	CREB1	CRYBB3	CSRNP1	CTRB2	CXCL17
COL4A3	COQ2	CPEB4	CREB3	CRYBG1	CSRNP2	CTRC	CXCL2
COL4A4	COQ3	CPED1	CREB3L1	CRYBG2	CSRNP3	CTRL	CXCL3
COL4A5	COQ4	CPHXL	CREB3L2	CRYBG3	CST_Family	CTSA	CXCL5
COL4A6	COQ5	CPLANE1	CREB3L3	CRYGA	CST1	CTSB	CXCL6
COL5A1	COQ6	CPLANE2	CREB3L4	CRYGB	CST11	CTSC	CXCL8
COL5A2	COQ7	CPLX1	CREB5	CRYGC	CST2	CTSD	CXCL9
COL5A3	COQ8A	CPLX2	CREBBP	CRYGD	CST3	CTSE	CXCR1
COL6A1	COQ8B	CPLX3	CREBL2	CRYGN	CST4	CTSF	CXCR2
COL6A2	COQ9	CPLX4	CREBRF	CRYGS	CST5	CTSG	CXCR3
COL6A3	CORIN	CPM	CREBZF	CRYL1	CST6	CTSH	CXCR4
COL6A5	COR01A	CPN1	CREG1	CRYM	CST7	CTSK	CXCR5
COL6A6	COR01B	CPN2	CREG2	CRYZ	CST8	CTSL	CXCR6
COL7A1	COR01C	CPNE1	CRELD1	CRYZL1	CST9	CTSO	CXorf21
COL8A1	COR02A	CPNE2	CRELD2	CRYZL2P-SEC16B	CST9L	CTSS	CXorf38
COL8A2	COR02B	CPNE3	CREM	CS	CSTA	CTSV	CXorf49_CXorf49B
COL9A1	COR06	CPNE4	CRH	CSAD	CSTB	CTSW	CXorf51A_CXorf51B
COL9A2	COR07	CPNE5	CRHBP	CSAG_Family	CSTF1	CTSZ	CXorf56
COL9A3	COR07_COR07-PAM16	CPNE6	CRHR1	CSAG1	CSTF2	CTTN	CXorf58
COLCA1	CORT	CPNE7	CRHR2	CSAG2_CSAG3	CSTF2T	CTTNBP2	CXorf65
COLCA2	COTL1	CPNE8	CRIM1	CSDC2	CSTF3	CTTNBP2NL	CXorf66
COLEC10	COX10	CPNE9	CRIP1	CSDE1	CSTL1	CTU1	CXXC1
COLEC11	COX11	CPO	CRIP2	CSE1L	CT45A_Family	CTU2	CXXC4
COLEC12	COX14	CPOX	CRIP3	CSF1	CT47_Family	CTXN1	CXXC5
COLGALT1	COX15	CPPED1	CRIP2	CSF1R	CT55	CTXN2	CYB561
COLGALT2	COX16	CPQ	CRISP1	CSF2	CT83	CTXN3	CYB561A3
COLQ	COX17	CPS1	CRISP2	CSF2RA	CTAG_Family	CTXND1	CYB561D1
COMMD1	COX18	CPSF1	CRISP3	CSF2RB	CTAGE_Family	CTXND2	CYB561D2
COMMD10	COX19	CPSF2	CRISPLD1	CSF3	CTAGE1	CUBN	CYB5A
COMMD2	COX20	CPSF3	CRISPLD2	CSF3R	CTAGE15_CTAGE6	CUEDC1	CYB5B
COMMD3	COX411	CPSF4	CRK	CSGALNACT1	CTBP1	CUEDC2	CYB5D1
COMMD3_COMMD3-BM11	COX412	CPSF4L	CRKL	CSGALNACT2	CTBP2	CUL1	CYB5D2
COMMD4	COX5A	CPSF6	CRLF1	CSH_Family	CTBS	CUL2	CYB5R1
COMMD5	COX5B	CPSF7	CRLF2	CSH1_CSH2	CTC1	CUL3	CYB5R2
COMMD6	COX6A1	CPT1A	CRLF3	CSH2	CTCF	CUL4A	CYB5R3
COMMD7	COX6A2	CPT1B	CRLS1	CSK	CTCFL	CUL4B	CYB5R4
COMMD8	COX6B1	CPT1C	CRMP1	CSKMT	CTDNEP1	CUL5	CYB5RL
COMMD9	COX6B2	CPT2	CRNDE	CSMD1	CTDP1	CUL7	CYBA
COMP	COX6C	CPTP	CRNKL1	CSMD2	CTDSP1	CUL9	CYBB
COMT	COX7A1	CPVL	CRNN	CSMD3	CTDSP2	CUTA	CYBC1
COMTD1	COX7A2	CPXCR1	CROCC	CSNTS1	CTDSPL	CUTC	CYBRD1
COP1	COX7A2L	CPXM1	CROCC2	CSN2	CTDSPL2	CUX1	CYC1
COPA	COX7B	CPXM2	CROT	CSN3	CTF1	CUX2	CYCS
COPB1	COX7B2	CPZ	CRP	CSNK1A1	CTH	CUZD1	CYFIP1
COPB2	COX7C	CR1	CRPPA	CSNK1A1L	CTHRC1	CWC15	CYFIP2
COPE	COX8A	CR1L	CRTAC1	CSNK1D	CTIF	CWC22	CYGB
COPG1	COX8C	CR2	CRTAM	CSNK1E	CTLA4	CWC25	CYHR1
COPG2	CP	CRABP1	CRTAP	CSNK1G1	CTNNA1	CWC27	CYLC1
COPRS	CPA1	CRABP2	CRTC1	CSNK1G2	CTNNA2	CWF19L1	CYLC2
COPS2	CPA2	CRACD	CRTC2	CSNK1G3	CTNNA3	CWF19L2	CYLD
COPS3	CPA3	CRACR2A	CRTC3	CSNK2A1	CTNNAL1	CWH43	CYP11A1
COPS4	CPA4	CRACR2B	CRX	CSNK2A1_CSNK2A3	CTNNB1	CX3CL1	CYP11B1
COPS5	CPA5	CRADD	CRY1	CSNK2A2	CTNNBIP1	CX3CR1	CYP11B2
COPS6	CPA6	CRAMP1	CRY2	CSNK2B	CTNNBL1	CXADR	CYP17A1
COPS7A	CPAMD8	CRAT	CRYAA_CRYAA2	CSNK2IP	CTNND1	CXCL1	CYP19A1

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CYP1A1	CYTH4	DCAF16	DDHD2	DEFA_Family	DEPDC7	DHX30	DLGAP3
CYP1A2	CYTIP	DCAF17	DDI1	DEFA4	DEPP1	DHX32	DLGAP4
CYP1B1	CYTL1	DCAF4	DDI2	DEFA5	DEPTOR	DHX33	DLGAP5
CYP20A1	CYFR1	DCAF4L1	DDIAS	DEFA6	DERA	DHX34	DLK1
CYP21A2	CZIB	DCAF4L2	DDIT3	DEFB1	DERL1	DHX35	DLK2
CYP24A1	D2HGDH	DCAF5	DDIT4	DEFB103A_DEFB103B	DERL2	DHX36	DLL1
CYP26A1	DAAM1	DCAF6	DDIT4L	DEFB104A_DEFB104B	DERL3	DHX37	DLL3
CYP26B1	DAAM2	DCAF7	DDN	DEFB105A_DEFB105B	DERPC	DHX38	DLL4
CYP26C1	DAB1	DCAF8	DDO	DEFB106A_DEFB106B	DES	DHX40	DLST
CYP27A1	DAB2	DCAF8L1	DDOST	DEFB107A_DEFB107B	DESI1	DHX57	DLX1
CYP27B1	DAB2IP	DCAF8L2	DDR1	DEFB108B	DESI2	DHX58	DLX2
CYP27C1	DACH1	DCAKD	DDR2	DEFB109B	DET1	DHX8	DLX3
CYP2A13	DACH2	DCANP1_TIFAB	DRGRK1	DEFB110	DEUP1	DHX9	DLX4
CYP2A6_CYP2A7	DACT1	DCBLD1	DDT	DEFB112	DEXI	DIABLO	DLX5
CYP2B6	DACT2	DCBLD2	DDTL	DEFB113	DFFA	DIAPH1	DLX6
CYP2C18	DACT3	DCC	DDX1	DEFB114	DFFB	DIAPH2	DMAC1
CYP2C19	DAD1	DCD	DDX10	DEFB115	DGAT1	DIAPH3	DMAC2
CYP2C8	DAG1	DCDC1	DDX11	DEFB116	DGAT2	DICER1	DMAC2L
CYP2C9	DAGLA	DCDC2	DDX17	DEFB118	DGAT2L6	DID01	DMAP1
CYP2D6	DAGLB	DCDC2B	DDX18	DEFB119	DGCR2	DIMT1	DMBT1
CYP2D7	DALRD3	DCDC2C	DDX19A	DEFB121	DGCR6	DIO1	DMBX1
CYP2E1	DAND5	DCHS1	DDX19B	DEFB123	DGCR6_Family	DIO2	DMC1
CYP2F1	DAO	DCHS2	DDX20	DEFB124	DGCR8	DIO3	DMD
CYP2J2	DAOA	DCK	DDX21	DEFB125	DGKA	DIP2A	DMGDH
CYP2R1	DAP	DCLK1	DDX23	DEFB126	DGKB	DIP2B	DMKN
CYP2S1	DAP3	DCLK2	DDX24	DEFB127	DGKD	DIP2C	DMP1
CYP2U1	DAPK1	DCLK3	DDX25	DEFB128	DGKE	DIPK1A	DMPK
CYP2W1	DAPK2	DCLRE1A	DDX27	DEFB129	DGKG	DIPK1B	DMRT1
CYP3A1	DAPK3	DCLRE1B	DDX28	DEFB130A_DEFB130B	DGKH	DIPK1C	DMRT2
CYP3A4	DAPL1	DCLRE1C	DDX31	DEFB131A_DEFB131B	DGKI	DIPK2A	DMRT3
CYP3A43	DAPP1	DCN	DDX39A	DEFB132	DGKK	DIPK2B	DMRTA1
CYP3A5	DARS1	DCP1A	DDX39B	DEFB134	DGKQ	DIRAS1	DMRTA2
CYP3A7	DARS2	DCP1B	DDX3X	DEFB135	DGKZ	DIRAS2	DMRTB1
CYP3A7-CYP3A51P	DAW1	DCP2	DDX3Y	DEFB136	DGLUCY	DIRAS3	DMRTC1_DMRTC1B
CYP46A1	DAXX	DCPS	DDX4	DEFB4A_DEFB4B	DGUOK	DIS3	DMRTC1B
CYP4A11_CYP4A22	DAZ_Family	DCST1	DDX41	DEGS1	DHCR24	DIS3L	DMRTC2
CYP4A22	DAZ1	DCST2	DDX42	DEGS2	DHCR7	DIS3L2	DMTF1
CYP4B1	DAZAP1	DCSTAMP	DDX43	DEK	DHDDS	DISC1	DMTN
CYP4F11	DAZAP2	DCT	DDX46	DELE1	DHDH	DISP1	DMWD
CYP4F12	DAZL	DCTD	DDX47	DENND10	DHFR	DISP2	DMXL1
CYP4F2	DBF4	DCTN1	DDX49	DENND11	DHFR2	DISP3	DMXL2
CYP4F22	DBF4B	DCTN2	DDX5	DENND1A	DHH	DIXDC1	DNA2
CYP4F3	DBH	DCTN3	DDX50	DENND1B	DHODH	DKC1	DNAAF1
CYP4F8	DBI	DCTN4	DDX51	DENND1C	DHPS	DKFZP761L0424	DNAAF2
CYP4V2	DBN1	DCTN5	DDX52	DENND2A	DHRS1	DKK1	DNAAF3
CYP4X1	DBNDD1	DCTN6	DDX53	DENND2B	DHRS11	DKK2	DNAAF4
CYP4Z1	DBNDD2	DCTPP1	DDX54	DENND2C	DHRS12	DKK3	DNAAF5
CYP51A1	DBNL	DCUN1D1	DDX55	DENND2D	DHRS13	DKK4	DNAH1
CYP7A1	DBP	DCUN1D2	DDX56	DENND3	DHRS2	DKKL1	DNAH10
CYP7B1	DBR1	DCUN1D3	DDX58	DENND4A	DHRS3	DLAT	DNAH11
CYP8B1	DBT	DCUN1D4	DDX59	DENND4B	DHRS4_DHRS4L2	DLC1	DNAH12
CYREN	DBX1	DCUN1D5	DDX6	DENND4C	DHRS4L1	DLD	DNAH14
CYRIB	DBX2	DCX	DDX60	DENND5A	DHRS7	DLEC1	DNAH17
CYS1	DCAF1	DCXR	DDX60L	DENND5B	DHRS7B	DLEU7	DNAH2
CYSLTR1	DCAF10	DDA1	DEAF1	DENND6A	DHRS7C	DLG1	DNAH3
CYSLTR2	DCAF11	DDAH1	DECRI	DENND6B	DHRS9	DLG2	DNAH5
CYSRT1	DCAF12	DDAH2	DECRI2	DENR	DHRSX	DLG3	DNAH6
CYSTM1	DCAF12L1	DDB1	DEDD	DEPDC1	DHTKD1	DLG4	DNAH7
CYTH1	DCAF12L2	DDB2	DEDD2	DEPDC1B	DHX15	DLG5	DNAH8
CYTH2	DCAF13	DDC	DEF6	DEPDC4	DHX16	DLGAP1	DNAH9
CYTH3	DCAF15	DDHD1	DEF8	DEPDC5	DHX29	DLGAP2	DNAI1

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# Probe List

## HTG Transcriptome Panel



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Continued

DNAI2	DNM1L	DPP3	DTD1	DYDC2	ECI2	EFCC1	EIF2B3
DNAJA1	DNM2	DPP4	DTD2	DYM	ECM1	EFEMP1	EIF2B4
DNAJA2	DNM3	DPP6	DTHD1	DYNAP	ECM2	EFEMP2	EIF2B5
DNAJA3	DNMBP	DPP7	DTL	DYNC1H1	ECPAS	EFHB	EIF2D
DNAJA4	DNMT1	DPP8	DTNA	DYNC1I1	ECRG4	EFHC1	EIF2S1
DNAJB1	DNMT3A	DPP9	DTNB	DYNC1I2	ECSCR	EFHC2	EIF2S2
DNAJB11	DNMT3B	DPPA2	DTNBP1	DYNC1L1	ECSIT	EFHD1	EIF2S3
DNAJB12	DNMT3L	DPPA3	DTWD1	DYNC1L2	ECT2	EFHD2	EIF2S3_EIF2S3B
DNAJB13	DNPEP	DPPA4	DTWD2	DYNC2H1	ECT2L	EFL1	EIF3A
DNAJB14	DNPH1	DPPA5	DTX1	DYNC2L1	EDA	EFNA1	EIF3B
DNAJB2	DNTT	DPRX	DTX2	DYNLL1	EDA2R	EFNA2	EIF3C_EIF3CL
DNAJB3	DNTTIP1	DPT	DTX3	DYNLL2	EDAR	EFNA3	EIF3D
DNAJB4	DNTTIP2	DPY19L1	DTX3L	DYNLRB1	EDARADD	EFNA4	EIF3E
DNAJB5	DOC2A	DPY19L2	DTX4	DYNLRB2	EDC3	EFNA5	EIF3F
DNAJB6	DOC2B	DPY19L3	DTYMK	DYNLT1	EDC4	EFNB1	EIF3G
DNAJB7	DOCK1	DPY19L4	DUOX1	DYNLT3	EDDM13	EFNB2	EIF3H
DNAJB8	DOCK10	DPY30	DUOX2	DYRK1A	EDDM3A	EFNB3	EIF3I
DNAJB9	DOCK11	DPYD	DUOXA1	DYRK1B	EDDM3B	EFR3A	EIF3J
DNAJC1	DOCK2	DPYS	DUOXA2	DYRK2	EDEM1	EFR3B	EIF3K
DNAJC10	DOCK3	DPYSL2	DUS1L	DYRK3	EDEM2	EFS	EIF3L
DNAJC11	DOCK4	DPYSL3	DUS2	DYRK4	EDEM3	EFTUD2	EIF3M
DNAJC12	DOCK5	DPYSL4	DUS3L	DYSF	EDF1	EGF	EIF4A1_A2
DNAJC13	DOCK6	DPYSL5	DUS4L	DYTN	EDIL3	EGFL6	EIF4A2
DNAJC14	DOCK7	DQX1	DUS4L-BCAP29	DZANK1	EDN1	EGFL7	EIF4A3
DNAJC15	DOCK8	DR1	DUSP1	DZIP1	EDN2	EGFL8	EIF4B
DNAJC16	DOCK9	DRAM1	DUSP10	DZIP1L	EDN3	EGFLAM	EIF4E
DNAJC17	DOHH	DRAM2	DUSP11	DZIP3	EDNRA	EGFR	EIF4E1B
DNAJC18	DOK1	DRAP1	DUSP12	E2F1	EDNRB	EGLN1	EIF4E2
DNAJC19	DOK2	DRAVIN	DUSP13	E2F2	EDRF1	EGLN2	EIF4E3
DNAJC2	DOK3	DRC1	DUSP14	E2F3	EEA1	EGLN3	EIF4EBP1
DNAJC21	DOK4	DRC3	DUSP15	E2F4	EED	EGR1	EIF4EBP2
DNAJC22	DOK5	DRC7	DUSP16	E2F5	EEF1A1	EGR2	EIF4EBP3
DNAJC24	DOK6	DRD1	DUSP18	E2F6	EEF1A2	EGR3	EIF4ENIF1
DNAJC25	DOK7	DRD2	DUSP19	E2F7	EEF1AKMT1	EGR4	EIF4G1
DNAJC25-GNG10	DOLK	DRD3	DUSP2	E2F8	EEF1AKMT2	EHBP1	EIF4G2
DNAJC27	DOLPP1	DRD4	DUSP21	E4F1	EEF1AKMT3	EHBP1L1	EIF4G3
DNAJC28	DONSON	DRD5	DUSP22	EAF1	EEF1AKMT4	EHD1	EIF4H
DNAJC3	DOP1A	DRG1	DUSP23	EAF2	EEF1AKMT4-ECE2	EHD2	EIF5
DNAJC30	DOP1B	DRG2	DUSP26	EAPP	EEF1AKNMT	EHD3	EIF5A_EIF5AL1
DNAJC4	DOT1L	DRGX	DUSP27	EARS2	EEF1B2	EHD4	EIF5A2
DNAJC5	DPAGT1	DRICH1	DUSP28	EBAG9	EEF1D	EHF	EIF5B
DNAJC5B	DPCD	DROSHA	DUSP29	EBF1	EEF1E1	EHHADH	EIF6
DNAJC5G	DPEP1	DRP2	DUSP29_2	EBF2	EEF1G	EHMT1	EIPR1
DNAJC6	DPEP2	DSC1	DUSP3	EBF3	EEF2	EHMT2	ELAC1
DNAJC7	DPEP2NB	DSC2	DUSP4	EBF4	EEF2K	EI24	ELAC2
DNAJC8	DPEP3	DSC3	DUSP5	EBI3	EEF2KMT	EID1	ELANE
DNAJC9	DPF1	DSCAM	DUSP6	EBLN1	EEFSEC	EID2	ELAVL1
DNAL1	DPF2	DSCAML1	DUSP7	EBLN2	EEPD1	EID2B	ELAVL2
DNAL4	DPF3	DSCC1	DUSP8	EBNA1BP2	EFCAB1	EID3	ELAVL3
DNAL11	DPH1	DSE	DUSP9	EBP	EFCAB10	EIF1	ELAVL4
DNASE1	DPH1_OVCA2	DSEL	DUT	EBPL	EFCAB11	EIF1AD	ELF1
DNASE1L1	DPH2	DSG1	DUX1	ECD	EFCAB12	EIF1AX	ELF2
DNASE1L2	DPH3	DSG2	DUX1_DUX5	ECE1	EFCAB13	EIF1AY	ELF3
DNASE1L3	DPH3P1	DSG3	DUX4	ECE2	EFCAB14	EIF1B	ELF4
DNASE2	DPH5	DSG4	DUXA	ECEL1	EFCAB2	EIF2A	ELF5
DNASE2B	DPH6	DSN1	DUXB	ECH1	EFCAB3	EIF2AK1	ELFN1
DND1	DPH7	DSP	DVL1	ECHDC1	EFCAB5	EIF2AK2	ELFN2
DNER	DPM1	DSPP	DVL2	ECHDC2	EFCAB6	EIF2AK3	ELK1
DNHDI	DPM2	DST	DVL3	ECHDC3	EFCAB7	EIF2AK4	ELK3
DNLZ	DPM3	DSTN	DXO	ECHS1	EFCAB8	EIF2B1	ELK4
DNM1	DPP10	DSTYK	DYDC1	ECI1	EFCAB9	EIF2B2	ELL

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ELL2	EN2	EPGN	ERF	ESYT1	EXOSC1	FADS6	FAM160A1
ELL3	ENAH	EPHA1	ERFE	ESYT2	EXOSC10	FAF1	FAM160A2
ELM01	ENAM	EPHA10	ERFL	ESYT3	EXOSC2	FAF2	FAM160B1
ELM02	ENC1	EPHA2	ERGA	ETAA1	EXOSC3	FAH	FAM160B2
ELM03	ENDOD1	EPHA3	ERG28	ETDA_ETDB	EXOSC4	FAHD1	FAM161A
ELMOD1	ENDOG	EPHA4	ERGIC1	ETDB	EXOSC5	FAHD2A	FAM161B
ELMOD2	ENDOU	EPHA5	ERGIC2	ETDC	EXOSC6	FAHD2B	FAM162A
ELMOD3	ENDOV	EPHA6	ERGIC3	ETF1	EXOSC7	FAIM	FAM162B
ELN	ENG	EPHA7	ERH	ETFA	EXOSC8	FAIM2	FAM163A
ELOA	ENGASE	EPHA8	ERI1	ETFB	EXOSC9	FAM102A	FAM163B
ELOA2	ENHO	EPHB1	ERI2	ETFBKMT	EXPH5	FAM102B	FAM166A
ELOA3	ENKD1	EPHB2	ERI3	ETFDH	EXT1	FAM104A	FAM166B
ELOB	ENKUR	EPHB3	ERICH1	ETFRF1	EXT2	FAM104B	FAM166C
ELOC	ENO1	EPHB4	ERICH2	ETHE1	EXTL1	FAM106_Family	FAM167A
ELOF1	ENO2	EPHB6	ERICH3	ETNK1	EXTL2	FAM107A	FAM167B
ELOVL1	ENO3	EPHX1	ERICH4	ETNK2	EXTL3	FAM107B	FAM168A
ELOVL2	ENO4	EPHX2	ERICH5	ETNPPL	EYA1	FAM110A	FAM168B
ELOVL3	ENOPH1	EPHX3	ERICH6	ETS1	EYA2	FAM110B	FAM169A
ELOVL4	ENOSF1	EPHX4	ERICH6B	ETS2	EYA3	FAM110C	FAM169B
ELOVL5	ENOX1	EPM2A	ERLEC1	ETV1	EYA4	FAM110D	FAM170A
ELOVL6	ENOX2	EPM2AIP1	ERLIN1	ETV2	EYS	FAM111A	FAM170B
ELOVL7	ENPEP	EPN1	ERLIN2	ETV3	EZH1	FAM111B	FAM171A1
ELP1	ENPP1	EPN2	ERMAP	ETV3L	EZH2	FAM114A1	FAM171A2
ELP2	ENPP2	EPN3	ERMARD	ETV4	EZHIP	FAM114A2	FAM171B
ELP3	ENPP3	EPO	ERMN	ETV5	EZR	FAM117A	FAM172A
ELP4	ENPP4	EPOP	ERMPI	ETV6	F10	FAM117B	FAM174A
ELP5	ENPP5	EPOR	ERN1	ETV7	F11	FAM118A	FAM174B
ELP6	ENPP6	EPPIN	ERN2	EVA1A	F11R	FAM118B	FAM174C
ELSPBP1	ENPP7	EPPIN-WFDC6	ERO1A	EVA1B	F12	FAM120A	FAM177A1
EMB	ENSA	EPPK1	ERO1B	EVA1C	F13A1	FAM120AOS	FAM177B
EMC1	ENTHD1	EPRS1	ERP27	EVC	F13B	FAM120B	FAM178B
EMC10	ENTPD1	EPS15	ERP29	EVC2	F2	FAM120C	FAM180A
EMC2	ENTPD2	EPS15L1	ERP44	EVI2A	F2R	FAM122A	FAM180B
EMC3	ENTPD3	EPS8	ERRF1	EVI2B	F2RL1	FAM122B	FAM181A
EMC4	ENTPD4	EPS8L1	ERV3-1	EV15	F2RL2	FAM122C	FAM181B
EMC6	ENTPD5	EPS8L2	ERV3-1-ZNF117_ZNF1117	EVI5L	F2RL3	FAM124A	FAM183A
EMC7	ENTPD6	EPS8L3	ERVFC1	EVL	F3	FAM124B	FAM184A
EMC8	ENTPD7	EPSTI1	ERVFRD-1	EVPL	F5	FAM126A	FAM184B
EMC9	ENTPD8	EPX	ERVH48-1	EVPLL	F7	FAM126B	FAM185A
EMCN	ENTR1	EPYC	ERVMER34-1	EVX1	F8	FAM131A	FAM186A
EMD	ENY2	EQTN	ERVV-1	EVX2	F8A_Family	FAM131B	FAM186B
EME1	EOGT	ERAL1	ERVV-2	EWSR1	F9	FAM131C	FAM187A_CCDC103
EME2	EOLA1	ERAP1	ERVW-1	EXD1	FA2H	FAM133A	FAM187B
EMG1	EOLA2	ERAP2	ESAM	EXD2	FAAH	FAM133B_A	FAM189A1
EMID1	EOMES	ERAS	ESCO1	EXD3	FAAH2	FAM134B	FAM189A2
EMILIN1	EP300	ERBB2	ESCO2	EXO1	FAAP100	FAM135A	FAM189B
EMILIN2	EP400	ERBB3	ESD	EXO5	FAAP20	FAM135B	FAM193A
EMILIN3	EPAS1	ERBB4	ESF1	EXOC1	FAAP24	FAM136A	FAM193B
EML1	EPB41	ERBIN	ESM1	EXOC1L	FABP1	FAM13A	FAM199X
EML2	EPB41L1	ERC1	ESPL1	EXOC2	FABP12	FAM13B	FAM200A
EML3	EPB41L2	ERC2	ESPN	EXOC3	FABP2	FAM13C	FAM200B
EML4	EPB41L3	ERCC1	ESPNL	EXOC3L1	FABP3	FAM149A	FAM204A
EML5	EPB41L4A	ERCC2	ESR1	EXOC3L2	FABP4	FAM149B1	FAM205A
EML6	EPB41L4B	ERCC3	ESR2	EXOC3L4	FABP5_12	FAM151A	FAM205C
EMP1	EPB41L5	ERCC4	ESRP1	EXOC4	FABP6	FAM151B	FAM207A
EMP2	EPB42	ERCC5	ESRP2	EXOC5	FABP7	FAM153A	FAM209A
EMP3	EPC1	ERCC6	ESRRA	EXOC6	FABP9	FAM153A_153B	FAM209B
EMSY	EPC2	ERCC6L	ESRRB	EXOC6B	FADD	FAM155A	FAM20A
EMX1	EPCAM	ERCC6L2	ESRRG	EXOC7	FADS1	FAM155B	FAM20B
EMX2	EPDR1	ERCC8	ESS2	EXOC8	FADS2	FAM156A	FAM20C
EN1	EPG5	EREG	ESX1	EXOG	FADS3	FAM156A_156B	FAM210A

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# Probe List

## HTG Transcriptome Panel



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FAM210B	FAM72_Family	FAT3	FBX04	FECH	FGFR4	FLNC	FOXA2
FAM213B	FAM76A	FAT4	FBX040	FEM1A	FGFRL1	FLOT1	FOXA3
FAM214A	FAM76B	FATE1	FBX041	FEM1B	FGG	FLOT2	FOXB1
FAM214B	FAM78A	FAU	FBX042	FEM1C	FGGY	FLRT1	FOXB2
FAM216A	FAM78B	FAXC	FBX043	FEN1	FGL1	FLRT2	FOXC1
FAM216B	FAM81A	FAXDC2	FBX044	FER	FGL2	FLRT3	FOXC2
FAM217A	FAM81B	FBF1	FBX045	FER1L5	FGR	FLT1	FOXD1
FAM217B	FAM83A	FBH1	FBX046	FER1L6	FH	FLT3	FOXD2
FAM219A	FAM83B	FBL	FBX047	FERD3L	FHAD1	FLT3LG	FOXD3
FAM219B	FAM83C	FBLIM1	FBX048	FERMT1	FHDC1	FLT4	FOXD4
FAM220A	FAM83D	FBL1	FBX05	FERMT2	FHIT	FLVCR1	FOXD4_Family
FAM221A	FAM83E	FBLN1	FBX06	FERMT3	FHL1	FLVCR2	FOXD4L1
FAM221B	FAM83F	FBLN2	FBX07	FES	FHL2	FLYWCH1	FOXD4L3
FAM222A	FAM83G	FBLN5	FBX08	FETUB	FHL3	FLYWCH2	FOXD4L6
FAM222B	FAM83H	FBLN7	FBX09	FEV	FHL5	FMC1	FOXE1
FAM227A	FAM86B1_FAM86B2	FBN1	FBXW10	FEZ1	FHOD1	FMC1-LUC7L2	FOXE3
FAM227B	FAM89A	FBN2	FBXW11	FEZ2	FHOD3	FMN1	FOXF1
FAM228A	FAM89B	FBN3	FBXW12	FEZF1	FIBCD1	FMN2	FOXF2
FAM228B	FAM8A1	FBP1	FBXW2	FEZF2	FIBIN	FMNL1	FOXG1
FAM229A	FAM90A1	FBP2	FBXW4	FFAR1	FIBP	FMNL2	FOXH1
FAM229B	FAM90A26	fbpA*	FBXW5	FFAR2	FICD	FMNL3	FOXI1
FAM234A	FAM91A1	FBRS	FBXW7	FFAR3	FIG4	FMO1	FOXI2
FAM234B	FAM92A	FBRSL1	FBXW8	FFAR4	FIGLA	FMO2	FOXI3
FAM236_Family	FAM92B	FBXL12	FBXW9	FGA	FIGN	FMO3	FOXJ1
FAM237A	FAM98A	FBXL13	FCAMR	FGB	FIGNL1	FMO4	FOXJ2
FAM237B	FAM98B	FBXL14	FCAR	FGD1	FIGNL2	FMO5	FOXJ3
FAM240A	FAM98C	FBXL15	FCER1A	FGD2	FILIP1	FMOD	FOXK1
FAM240C	FAM9A	FBXL16	FCER1G	FGD3	FILIP1L	FMR1	FOXK2
FAM241A	FAM9B	FBXL17	FCER2	FGD4	FIP1L1	FMR1NB	FOXL1
FAM241B	FAM9C	FBXL18	FCF1	FGD5	FIS1	FN1	FOXL2
FAM243A_FAM243B	FAN1	FBXL19	FCGBP	FGD6	FITM1	FN3K	FOXL2NB
FAM24A	FANCA	FBXL2	FCGR1A	FGF1	FITM2	FN3KRP	FOXL3
FAM24B	FANCB	FBXL20	FCGR2A	FGF10	FIZ1	FNBP1	FOXM1
FAM25_Family	FANCC	FBXL22	FCGR2B	FGF11	FJX1	FNBP1L	FOXN1
FAM25E	FANCD2	FBXL3	FCGR2B_FCGR2C	FGF12	FKBP10	FNBP4	FOXN2
FAM32A	FANCD20S	FBXL4	FCGR3A_FCGR3B	FGF13	FKBP11	FNDC1	FOXN3
FAM3A	FANCE	FBXL5	FCGRT	FGF14	FKBP14	FNDC10	FOXN4
FAM3B	FANCF	FBXL6	FCH01	FGF16	FKBP15	FNDC11	FOXO1
FAM3C	FANCG	FBXL7	FCH02	FGF17	FKBP1A	FNDC3A	FOXO3
FAM3D	FANCI	FBXL8	FCHSD1	FGF18	FKBP1B	FNDC3B	FOXO3B
FAM43A	FANCL	FBX010	FCHSD2	FGF19	FKBP2	FNDC4	FOXO4
FAM43B	FANCM	FBX011	FCMR	FGF2	FKBP3	FNDC5	FOXO6
FAM47A	FANK1	FBX015	FCN1	FGF20	FKBP4	FNDC7	FOXP1
FAM47B	FAP	FBX016	FCN2	FGF21	FKBP5	FNDC8	FOXP2
FAM47B_FAM47C	FAR1	FBX017	FCN3	FGF22	FKBP6	FNDC9	FOXP3
FAM47E	FAR2	FBX02	FCRL1	FGF23	FKBP7	FNIP1	FOXP4
FAM47E_FAM47E-STBD1	FARP1	FBX021	FCRL2	FGF3	FKBP8	FNIP2	FOXQ1
FAM49A	FARP2	FBX022	FCRL3	FGF4	FKBP9	FNTA	FOXR1
FAM50A	FARS2	FBX024	FCRL4	FGF5	FKBPL	FNTB	FOXR2
FAM50B	FARSA	FBX025	FCRL5	FGF6	FKRP	FOCAD	FOXRED1
FAM53A	FARSB	FBX027	FCRL6	FGF7	FKTN	FOLH1	FOXRED2
FAM53B	FAS	FBX028	FCRLA	FGF8	FLACC1	FOLH1_FOLH1B	FOXS1
FAM53C	FASLG	FBX03	FCRLB	FGF9	FLAD1	FOLR1	FPGS
FAM71A	FASN	FBX030	FCSK	FGFBP1	FLCN	FOLR2	FPGT
FAM71B	FASTK	FBX031	FDCSP	FGFBP2	FLG	FOLR3	FPGT_FPPT-TNNI3K
FAM71C	FASTKD1	FBX032	FDFT1	FGFBP3	FLG2	FOPNL	FPR1
FAM71D	FASTKD2	FBX033	FDPS	FGFR1	FLI1	FOS	FPR2
FAM71E1	FASTKD3	FBX034	FDX1	FGFR10P	FLII	FOSB	FPR3
FAM71E2	FASTKD5	FBX036	FDX2	FGFR10P2	FLJ44635	FOSL1	FRA10AC1
FAM71F1	FAT1	FBX038	FDXACB1	FGFR2	FLNA	FOSL2	FRAS1
FAM71F2	FAT2	FBX039	FDXR	FGFR3	FLNB	FOXA1	FRAT1

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FRAT2	FUOM	GABPB1	GALNT8	GBP6	GEMIN7	GIMAP7	GLIPR2
FREM1	FURIN	GABPB2	GALNT9	GBP7	GEMIN8	GIMAP8	GLIS1
FREM2	FUS	GABRA1	GALNTL5	GBX1	GEN1	GIMD1	GLIS2
FREM3	FUT1	GABRA2	GALNTL6	GBX2	GET1	GIN1	GLIS3
FRG1	FUT10	GABRA3	GALP	GC	GET1-SH3BGR	GINM1	GLMN
FRG2_Family	FUT11	GABRA4	GALR1	GCA	GET3	GINS1	GLMP
FRG2C	FUT2	GABRA5	GALR2	GCAT	GET4	GINS2	GL01
FRK	FUT3	GABRA6	GALR3	GCC1	GFAP	GINS3	GLOD4
FRMD1	FUT4	GABRB1	GALT	GCC2	GFER	GINS4	GLOD5
FRMD3	FUT5	GABRB2	GAMT	GCDH	GF1	GIP	GLP1R
FRMD4A	FUT6	GABRB3	GAN	GCFC2	GF1B	GIPC1	GLP2R
FRMD4B	FUT7	GABRD	GANAB	GCG	GFM1	GIPC2	GLRA1
FRMD5	FUT8	GABRE	GANC	GCCR	GFM2	GIPC3	GLRA2
FRMD6	FUT9	GABRG1	GAP43	GCH1	GFOD1	GIPR	GLRA3
FRMD7	FUZ	GABRG2	GAPDH	GCHFR	GFOD2	GIT1	GLRB
FRMD8	FXN	GABRG3	GAPDHS	GCK	GFPT1	GIT2	GLRX
FRMPD1	FXR1	GABRP	GAPT	GCKR	GFPT2	GJA1	GLRX2
FRMPD2	FXR2	GABRQ	GAPVD1	GCLC	GFRA1	GJA10	GLRX3
FRMPD3	FXYD1	GABRR1	GAR1	GCLM	GFRA2	GJA3	GLRX5
FRMPD4	FXYD2	GABRR2	GAREM1	GCM1	GFRA3	GJA4	GLS
FRRS1	FXYD2_FXYD6-FXYD2	GABRR3	GAREM2	GCM2	GFRA4	GJA5	GLS2
FRRS1L	FXYD3	GAD1	GARNL3	GCN1	GFRAL	GJA8	GLT1D1
FRS2	FXYD4	GAD2	GARRE1	GCNA	GFY	GJA9	GLT6D1
FRS3	FXYD5	GADD45A	GARS1	GCNT1	GGA1	GJB1	GLT8D1
FRY	FXYD6	GADD45B	GART	GCNT2	GGA2	GJB2	GLT8D2
FRYL	FXYD7	GADD45G	GAS1	GCNT3	GGA3	GJB3	GLTP
FRZB	FYB1	GADD45GIP1	GAS2	GCNT4	GGACT	GJB4	GLTPD2
FSBP	FYB2	GADL1	GAS2L1	GCNT7	GGCT	GJB5	GLUD1
FSCB	FYC01	gag*	GAS2L2	GCOM1_MYZAP	GGCX	GJB6	GLUD1_GLUD2
FSCN1	FYN	GAGE_Family	GAS2L3	GCOM1_POLR2M	GGH	GJB7	GLUL
FSCN2	FYTTD1	GAGE_Family_2	GAS6	GCSAM	GGN	GJC1	GLYAT
FSCN3	FZD1	GAGE1	GAS7	GCSAML	GGNBP2	GJC2	GLYATL1
FSD1	FZD10	GAGE10	GAS8	GCSH	GGPS1	GJC3	GLYATL1B
FSD1L	FZD2	GAK	GASK1A	GDA	GGT1	GJD2	GLYATL2
FSD2	FZD3	GAL	GASK1B	GDAP1	GGT2	GJD3	GLYATL3
FSHB	FZD4	GAL3ST1	GAST	GDAP1L1	GGT2_GGTLC3	GJD4	GLYCTK
FSHR	FZD5	GAL3ST2	GATA1	GDAP2	GGT5	GJE1	GLYR1
FSIP1	FZD6	GAL3ST3	GATA2	GDE1	GGT6	GK	GM2A
FSIP2	FZD7	GAL3ST4	GATA3	GDF10	GGT7	GK2	GMCL1
FST	FZD8	GALC	GATA4	GDF11	GGTA1	GK5	GMCL2
FSTL1	FZD9	GALE	GATA5	GDF15	GGTLC1	GKAP1	GMDS
FSTL3	FZR1	GALK1	GATA6	GDF2	GGTLC2	GKN1	GMEB1
FSTL4	G0S2	GALK2	GATAD1	GDF3	GH1_CSH2	GKN2	GMEB2
FSTL5	G2E3	GALM	GATAD2A	GDF5	GH2	GLA	GMFB
FTCD	G3BP1	GALNS	GATAD2B	GDF6	GHDC	GLB1	GMFG
FTCD-AS1	G3BP2	GALNT1	GATB	GDF7	GHITM	GLB1L	GMIP
FTCDNL1	G6PC	GALNT10	GATC	GDF9	GHR	GLB1L2	GML
FTH1	G6PC2	GALNT11	GATD1	GD11	GHRH	GLB1L3	GMNC
FTHL17	G6PC3	GALNT12	GATD3A_3B	GD12	GHRHR	GLCCI1	GMNN
FTHL18	G6PD	GALNT13	GATM	GDNF	GHRL	GLCE	GMPPA
FTL_FTMT	GAA	GALNT14	GBA	GDPD1	GHSR	GLDC	GMPPB
FTMT	GAB1	GALNT15	GBA2	GDPD2	GID4	GLDN	GMPR
FTO	GAB2	GALNT16	GBA3	GDPD3	GID8	GLE1	GMPR2
FTSJ1	GAB3	GALNT17	GBE1	GDPD4	GIGYF1	GLG1	GMPS
FTSJ3	GAB4	GALNT18	GBF1	GDPD5	GIGYF2	GLI1	GNAT1
FUBP1	GABARAP	GALNT2	GBGT1	GDPGP1	GIMAP1	GLI2	GNAT2
FUBP3	GABARAPL1	GALNT3	GBP1	GEM	GIMAP1-GIMAP5	GLI3	GNAT3
FUCA1	GABARAPL2	GALNT4	GBP2	GEMIN2	GIMAP2	GLI4	GNAT4
FUCA2	GABBR1	GALNT5	GBP3	GEMIN4	GIMAP4	GLIPR1	GNAT5
FUNDC1	GABBR2	GALNT6	GBP4	GEMIN5	GIMAP5	GLIPR1L1	GNAT1
FUNDC2	GABPA	GALNT7	GBP5	GEMIN6	GIMAP6	GLIPR1L2	GNAT2

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GNAI3	GOLGA8A	GPIHBP1	GPR35	GRB10	GSAP	GTF3C3	H2AC12
GNAL	GOLGA8A_GOLGA8B	GPKOW	GPR37	GRB14	GSC	GTF3C4	H2AC13
GNAO1	GOLGA8F_GOLGA8G	GPLD1	GPR37L1	GRB2	GSC2	GTF3C5	H2AC14
GNAQ	GOLGA8M	GPM6A	GPR39	GRB7	GSDMA	GTF3C6	H2AC15
GNAS	GOLGB1	GPM6B	GPR4	GREB1	GSDMB	GTPBP1	H2AC16
GNAT1	GOLIM4	GPN1	GPR42	GREB1L	GSDMC	GTPBP10	H2AC17
GNAT2	GOLM1	GPN2	GPR45	GREM1	GSDMD	GTPBP2	H2AC18_H2AC19
GNAT3	GOLPH3	GPN3	GPR50	GREM2	GSDME	GTPBP3	H2AC20
GNAZ	GOLPH3L	GPNMB	GPR52	GRHL1	GSE1	GTPBP4	H2AC21
GNB1	GOLT1A	GPR1	GPR55	GRHL2	GSG1	GTPBP6	H2AC4
GNB1L	GOLT1B	GPR101	GPR6	GRHL3	GSG1L	GTPBP8	H2AC6
GNB2	GON4L	GPR107	GPR61	GRHPR	GSG1L2	GTSE1	H2AC7
GNB3	GON7	GPR108	GPR62	GRI1A1	GSK3A	GTSF1	H2AFY
GNB4	GOPC	GPR119	GPR63	GRI2A	GSK3B	GTSF1L	H2AJ
GNB5	GORAB	GPR12	GPR65	GRI3A	GSKIP	GUCA1A	H2AP
GNE	GORASP1	GPR132	GPR68	GRI4A	GSN	GUCA1A_LOC114841037	H2AW
GNG10	GORASP2	GPR135	GPR75	GRID1	GSPT1	GUCA1B	H2AX
GNG11	GOSR1	GPR137	GPR78	GRID2	GSPT2	GUC1C	H2AZ1
GNG12	GOSR2	GPR137B	GPR82	GRID2IP	GSR	GUCA2A	H2AZ2
GNG13	GOT1	GPR137C	GPR83	GRIFIN	GSS	GUCA2B	H2BC1
GNG14	GOT1L1	GPR139	GPR84	GRIK1	GSTA1_GSTA2	GUCD1	H2BC10
GNG2	GOT2	GPR141	GPR85	GRIK2	GSTA3	GUCY1A1	H2BC11
GNG3	GP1BA	GPR142	GPR87	GRIK3	GSTA4	GUCY1A2	H2BC12
GNG4	GP1BB	GPR143	GPR88	GRIK4	GSTA5	GUCY1B1	H2BC13
GNG5	GP2	GPR146	GPR89A	GRIK5	GSTCD	GUCY2C	H2BC14
GNG7	GP5	GPR148	GPR89B	GRIN1	GSTK1	GUCY2D	H2BC15
GNG8	GP6	GPR149	GPRASP1	GRIN2A	GSTM1	GUCY2F	H2BC17
GNGT1	GP9	GPR15	GPRASP2	GRIN2B	GSTM2	GUF1	H2BC18_9
GNGT2	GPA33	GPR150	GPRC5A	GRIN2C	GSTM3	GUK1	H2BC21
GNL1	GPA1	GPR151	GPRC5B	GRIN2D	GSTM4	GULP1	H2BC3
GNL2	GPALPP1	GPR152	GPRC5C	GRIN3A	GSTM5	GUSB	H2BC4
GNL3	GPAM	GPR153	GPRC5D	GRIN3B	GSTO1	GVQW3	H2BC5
GNL3L	GPANK1	GPR155	GPRC6A	GRINA	GSTO2	GXYLT1	H2BC6
GNL4	GPAT2	GPR156	GPRIN1	GRIP1	GSTP1	GXYLT2	H2BC7
GNMT	GPAT3	GPR157	GPRIN2	GRIP2	GSTT1	GYG1	H2BC8
GNPAT	GPAT4	GPR158	GPRIN3	GRIPAP1	GSTT2	GYG2	H2BC9
GNPDA1	GPATCH1	GPR160	GPS1	GRK1	GSTT2_GSTT2B	GYP1	H2BE1
GNPDA2	GPATCH11	GPR161	GPS2	GRK2	GSTT4	GYPB	H2BS1
GNPNAT1	GPATCH2	GPR162	GPSM1	GRK3	GSTZ1	GYPE	H2BS1_LOC102724334
GNPTAB	GPATCH2L	GPR17	GPSM2	GRK4	GSX1	GYS1	H2BU1
GNPTG	GPATCH3	GPR171	GPSM3	GRK5	GSX2	GYS2	H2BW1
GNRH1	GPATCH4	GPR173	GPT	GRK6	GTDC1	GZF1	H2BW2
GNRH2	GPATCH8	GPR174	GPT2	GRK7	GTF2A1	GZMA	H3_Family
GNRHR	GPBAR1	GPR176	GPX1	GRM1	GTF2A1L	GZMB	H3-3A
GNS	GPBP1	GPR179	GPX2	GRM2	GTF2A2	GZMH	H3-3B
GOLGA1	GPBP1L1	GPR18	GPX3	GRM3	GTF2B	GZMK	H3-4
GOLGA2	GPC1	GPR180	GPX4	GRM4	GTF2E1	GZMM	H3-5
GOLGA3	GPC2	GPR182	GPX5	GRM5	GTF2E2	H1-0	H3C1
GOLGA4	GPC3	GPR183	GPX6	GRM6	GTF2F1	H1-1	H3C10
GOLGA5	GPC4	GPR19	GPX7	GRM7	GTF2F2	H1-10	H3C11
GOLGA6_Family	GPC5	GPR20	GPX8	GRM8	GTF2H1	H1-2	H3C12
GOLGA6C	GPC6	GPR21	GRAMD1A	GRN	GTF2H2_Family	H1-3	H3C14_H3C15
GOLGA6L_Family	GPCPD1	GPR22	GRAMD1B	GRP	GTF2H3	H1-4	H3C2
GOLGA6L_Family_T2	GPD1	GPR25	GRAMD1C	GRPEL1	GTF2H4	H1-5	H3C3
GOLGA6L10_GOLGA6L4	GPD1L	GPR26	GRAMD2A	GRPEL2	GTF2H5	H1-6	H3C4
GOLGA6L2	GPD2	GPR27	GRAMD2B	GRPR	GTF2I	H1-7	H3C6
GOLGA6L7	GPER1	GPR3	GRAMD4	GRSF1	GTF2IRD1	H1-8	H3C7
GOLGA6L9	GPHA2	GPR31	GRAP	GRTP1	GTF2IRD2	H2AB_Family	H3C8
GOLGA7	GPHB5	GPR32	GRAP_GRAPL	GRWD1	GTF3A	H2AC1	H3Y1
GOLGA7B	GPHN	GPR33	GRAP2	GRXCR1	GTF3C1	H2AC11	H3Y2
GOLGA8_Family	GPI	GPR34	GRASP	GRXCR2	GTF3C2	H2AC11	H4-16

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# Probe List

## HTG Transcriptome Panel



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H4C1	HBEGF	HECTD3	HIBADH	HLX	HNRNPR	HPDL	HSDL2
H4C11_H4C12	HBG1	HECTD4	HIBCH	HMT3	HNRNPU	HPF1	HSF1
H4C12	HBM	HECW1	HIC1	HMBOX1	HNRNPUL1	HPGD	HSF2
H4C13	HBP1	HECW2	HIC2	HMBS	HNRNPUL2	HPGDS	HSF2BP
H4C14	HBQ1	HEG1	HID1	HMCE5	HOGA1	HPN	HSF4
H4C14_H4C15	HBS1L	HELB	HIF1A	HMCN1	HOMER1	HPR	HSF5
H4C2	HBZ	HELLS	HIF1AN	HMCN2	HOMER2	HPRT1	HSFX1
H4C3	HCAR1	HELQ	HIF3A	HMG20A	HOMER3	HPS1	HSFX3_HSFX4
H4C4	HCAR2	HELT	HIGD1A	HMG20B	HOMEZ	HPS3	HSFY1
H4C5	HCAR3	HELZ	HIGD1B	HMG1	HOOK1	HPS4	HSI2D
H4C6	HCCS	HELZ2	HIGD1C	HMGA2	HOOK2	HPS5	HSP90AA1
H4C7	HCFC1	HEMGN	HIGD2A	HMGB1	HOOK3	HPS6	HSP90AB1
H4C8	HCFC1R1	HEM1	HIGD2B	HMGB2	HOPX	HPSE	HSP90B1
H4C9	HCFC2	HENMT1	HIKESHI	HMGB3	HORMAD1	HPSE2	HSPA12A
HGPD	HCG22	HEPACAM	HILPDA	HMGB4	HORMAD2	HPX	HSPA12B
HAA0	HCK	HEPACAM2	HINFP	HMGCL	HOTS	Hpylori*	HSPA13
HABP2	HCLS1	HEPH	HINT1	HMGCLL1	HOXA1	HR	HSPA14
HABP4	HCN1	HEPHL1	HINT2	HMGCR	HOXA10	HRAS	HSPA1A
HACD1	HCN2	HEPN1	HINT3	HMGCS1	HOXA11	HRC	HSPA1B
HACD2	HCN3	HERC1	HIP1	HMGCS2	HOXA13	HRCT1	HSPA1L
HACD3	HCN4	HERC2	HIP1R	HMGN1	HOXA2	HRG	HSPA2
HACD4	HCP5	HERC3	HIPK1	HMGN2	HOXA3	HRH1	HSPA4
HACE1	HCRT	HERC4	HIPK2	HMGN3	HOXA4	HRH2	HSPA4L
HACL1	HCRT1	HERC5	HIPK3	HMGN4	HOXA5	HRH3	HSPA5
HADH	HCRT2	HERC6	HIPK4	HMGN5	HOXA6	HRH4	HSPA6
HADHA	HCST	HERPUD1	HIRA	HMGXB3	HOXA7	HRK	HSPA8
HADHB	HDAC1	HERPUD2	HIRIP3	HMGXB4	HOXA9	HRNR	HSPA9
HAGH	HDAC10	HES1	HIST1H2AE	HMH1	HOXB1	HS1BP3	HSPB1
HAGHL	HDAC11	HES2	HIVEP1	HMMR	HOXB13	HS2ST1	HSPB11
HAL	HDAC2	HES3	HIVEP2	HMOX1	HOXB2	HS3ST1	HSPB2
HAMP	HDAC3	HES4	HIVEP3	HMOX2	HOXB3	HS3ST2	HSPB3
HAND1	HDAC4	HES5	HJURP	HMSD	HOXB4	HS3ST3A1	HSPB6
HAND2	HDAC5	HES6	HJV	HMX1_HMX2_HMX3	HOXB5	HS3ST3B1	HSPB7
HA01	HDAC6	HES7	HK1	HMX2	HOXB6	HS3ST4	HSPB8
HA02	HDAC7	HESX1	HK2	HMX3	HOXB7	HS3ST5	HSPB9
HAP1	HDAC8	HEXA	HK3	HNF1A	HOXB8	HS3ST6	HSPBAP1
HAPLN1	HDAC9	HEXB	HKDC1	HNF1B	HOXB9	HS6ST1	HSPBP1
HAPLN2	HDC	HEXD	HLA-A	HNF4A	HOXC10	HS6ST2	HSPD1
HAPLN3	HDCC2	HEXIM1	HLA-B	HNF4G	HOXC11	HS6ST3	HSPE1
HAPLN4	HDCC3	HEXIM2	HLA-C	HNMT	HOXC12	HSBP1	HSPE1-MOB4
HARB1	HDF	HEY1	HLA-DMA	HNRNPA0	HOXC13	HSBP1L1	HSPG2
HARS1	HDGFL1	HEY2	HLA-DMB	HNRNPA1	HOXC4	HSCB	HSPH1
HARS2	HDGFL2	HEYL	HLA-DOA	HNRNPA1L2	HOXC5	HSD11B1	HTATIP2
HAS1	HDGFL3	HFE	HLA-DOB	HNRNPA2B1	HOXC6	HSD11B1L	HTATSF1
HAS2	HDHD2	HFM1	HLA-DPA1	HNRNPA3	HOXC8	HSD11B2	HTD2
HAS3	HDHD3	HGC6.3	HLA-DPB1	HNRNPAB	HOXC9	HSD17B1	HTN1
HASPIN	HDHD5	HGD	HLA-DQA1	HNRNPC	HOXD1	HSD17B10	HTN3
HAT1	HDLBP	HGF	HLA-DQA2	HNRNPCL_Family	HOXD10	HSD17B11	HTR1A
HAUS1	HDX	HGFAC	HLA-DQB1	HNRNPCL1	HOXD11	HSD17B12	HTR1B
HAUS2	HEATR1	HGH1	HLA-DQB2	HNRNPCL2	HOXD12	HSD17B13	HTR1D
HAUS3	HEATR3	HGS	HLA-DRA	HNRNPCL3_HNRNPCL4	HOXD13	HSD17B14	HTR1E
HAUS4	HEATR4	HGSNAT	HLA-DRB1	HNRNPD	HOXD3	HSD17B2	HTR1F
HAUS5	HEATR5A	HHAT	HLA-DRB3	HNRNPDL	HOXD4	HSD17B3	HTR2A
HAUS6	HEATR5B	HHATL	HLA-DRB4	HNRNPF	HOXD8	HSD17B4	HTR2B
HAUS7	HEATR6	HHEX	HLA-DRB5	HNRNPH1	HOXD9	HSD17B6	HTR2C
HAUS8	HEATR9	HHIP	HLA-E	HNRNPH2	HP	HSD17B7	HTR3A
HAVCR1	HEBP1	HHIPL1	HLA-F	HNRNPH3	HP1BP3	HSD17B8	HTR3B
HAVCR2	HEBP2	HHIPL2	HLA-G	HNRNPK	HPCA	HSD3B1	HTR3C
HAX1	HECA	HHLA1	HLA-C	HNRNPL	HPCAL1	HSD3B2	HTR3D
HBD	HECTD1	HHLA2	HLF	HNRNPLL	HPCAL4	HSD3B7	HTR3E
HBE1	HECTD2	HHLA3	HLTF	HNRNPM	HPD	HSDL1	HTR4

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HTR5A	IER3IP1	IFT57	IL10RB	IL31RA	INKA1	IP07	IRX6
HTR6	IER5	IFT74	IL11	IL32	INKA2	IP08	ISCA1
HTR7	IER5L	IFT80	IL11RA	IL33	INMT	IP09	ISCA2
HTRA1	IFF01	IFT81	IL12A	IL34	INO80	IPP	ISCU
HTRA2	IFF02	IFT88	IL12B	IL36A	INO80B	IPPK	ISG15
HTRA3	IFI16	IFTAP	IL12RB1	IL36B	INO80C	IQANK1	ISG20
HTRA4	IFI27	IGBP1	IL12RB2	IL36G	INO80D	IQCA1	ISG20L2
HTT	IFI27L1	IGDCC3	IL13	IL36RN	INO80E	IQCA1L	ISL1
HUNK	IFI27L2	IGDCC4	IL13RA1	IL37	INPP1	IQCB1	ISL2
HUS1	IFI30	IGF1	IL13RA2	IL3RA	INPP4A	IQCC	ISLR
HUS1B	IFI35	IGF1R	IL15	IL4	INPP4B	IQCD	ISLR2
HUWE1	IFI44	IGF2	IL15RA	IL41	INPP5A	IQCE	ISM1
HVCN1	IFI44L	IGF2BP1	IL16	IL4R	INPP5B	IQCF1	ISM2
HYAL1	IFI6	IGF2BP2	IL17A	IL5	INPP5D	IQCF2	ISOC1
HYAL2	IFIH1	IGF2BP3	IL17B	IL5RA	INPP5E	IQCF3	ISOC2
HYAL3	IFIT1	IGF2R	IL17C	IL6	INPP5F	IQCF5	IST1
HYAL4	IFIT1B	IGFALS	IL17D	IL6R	INPP5J	IQCF6	ISX
HYDIN	IFIT2	IGFBP1	IL17F	IL6ST	INPP5K	IQCG	ISY1
HYI	IFIT3	IGFBP2	IL17RA	IL7	INPPL1	IQCH	ISY1-RAB43
HYKK	IFIT5	IGFBP3	IL17RB	IL7R	INS	IQCJ	ISYNA1
HYLS1	IFITM_Family	IGFBP4	IL17RC	IL9	INSC	IQCJ-SCHIP1	ITCH
HYOU1	IFITM1	IGFBP5	IL17RD	IL9R	INSIG1	IQCK	ITFG1
HYPK	IFITM10	IGFBP6	IL17RE	ILD1R1	INSIG2	IQCM	ITFG2
IAH1	IFITM2	IGFBP7	IL17REL	ILD1R2	INS-IGF2	IQCN	ITGA1
IAPP	IFITM5	IGFBPL1	IL18	ILF2	INSL3	IQGAP1	ITGA10
IARS	IFNA_Family	IGFL1	IL18BP	ILF3	INSL4	IQGAP2	ITGA11
IARS2	IFNA1_IFNA13	IGFL2	IL18R1	ILK	INSL5	IQGAP3	ITGA2
IBA57	IFNA10	IGFL3	IL18RAP	ILKAP	INSL6	IQSEC1	ITGA2B
IBSP	IFNA14	IGFL4	IL19	ILRUN	INSM1	IQSEC2	ITGA3
IBTK	IFNA16	IGFLR1	IL1A	ILVBL	INSM2	IQSEC3	ITGA4
ICA1	IFNA2	IGFN1	IL1B	IMMP1L	INSR	IQB	ITGA5
ICA1L	IFNA21	IGHMBP2	IL1F10	IMMP2L	INSRR	IRAG1	ITGA6
ICAM1	IFNA4	IGIP	IL1R1	IMMT	INSYN1	IRAK1	ITGA7
ICAM2	IFNA5	IGLL1	IL1R2	IMP3	INSYN2A	IRAK1BP1	ITGA8
ICAM3	IFNA6	IGLL5	IL1RAP	IMP4	INSYN2B	IRAK2	ITGA9
ICAM4	IFNA8	IGLON5	IL1RAPL1	IMPA1	INTS1	IRAK3	ITGAD
ICAM5	IFNAR1	IGSF1	IL1RAPL2	IMPA2	INTS10	IRAK4	ITGAE
ICE1	IFNAR2	IGSF10	IL1RL1	IMPACT	INTS11	IREB2	ITGAL
ICE2	IFNB1	IGSF11	IL1RL2	IMPAD1	INTS12	IRF1	ITGAM
ICMT	IFNE	IGSF21	IL1RN	IMPDH1	INTS13	IRF2	ITGAV
ICOS	IFNG	IGSF22	IL2	IMPDH2	INTS14	IRF2BP1	ITGAX
ICOSLG	IFNGR1	IGSF23	IL20	IMPG1	INTS2	IRF2BP2	ITGB1
ID1	IFNGR2	IGSF3	IL20RA	IMPG2	INTS3	IRF2BPL	ITGB1BP1
ID2	IFNK	IGSF5	IL20RB	INA	INTS4	IRF3	ITGB1BP2
ID3	IFNL1	IGSF6	IL21	INAFM1	INTS5	IRF4	ITGB2
ID4	IFNL2	IGSF8	IL21R	INAFM2	INTS6	IRF5	ITGB3
IDE	IFNL2_IFNL3	IGSF9	IL22	INAVA	INTS6L	IRF6	ITGB3BP
IDH1	IFNL4	IGSF9B	IL22RA1	INCA1	INTS7	IRF7	ITGB4
IDH2	IFNLR1	IHH	IL22RA2	INCENP	INTS8	IRF8	ITGB5
IDH3A	IFNW1	IK	IL23A	INF2	INTS9	IRF9	ITGB6
IDH3B	IFRD1	IKBIP	IL23R	ING1	INTU	IRGC	ITGB7
IDH3G	IFRD2	IKBKB	IL24	ING2	INVS	IRGM	ITGB8
IDI1	IFT122	IKBKE	IL25	ING3	IP6K1	IRGQ	ITGBL1
IDI2	IFT140	IKBKG	IL26	ING4	IP6K2	IRS1	ITIH1
IDNK	IFT172	IKZF1	IL27	ING5	IP6K3	IRS2	ITIH2
IDO1	IFT20	IKZF2	IL27RA	INH1	IPCEF1	IRS4	ITIH3
IDO2	IFT22	IKZF3	IL2RA	INHBA	IPMK	IRX1	ITIH4
IDS	IFT27	IKZF4	IL2RB	INHBB	IP011	IRX2	ITIH5
IDUA	IFT43	IKZF5	IL2RG	INHBC	IP013	IRX3	ITIH6
IER2	IFT46	IL10	IL3	INHBE	IPO4	IRX4	ITK
IER3	IFT52	IL10RA	IL31	INIP	IPO5	IRX5	ITLN1

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ITLN2	JPH2	KCNB1	KCNK9	KDM5A	KIF13A	KITLG	KLHL34
ITM2A	JPH3	KCNB2	KCNMA1	KDM5B	KIF13B	KIZ	KLHL35
ITM2B	JPH4	KCNC1	KCNMB1	KDM5C	KIF14	KL	KLHL36
ITM2C	JPT1	KCNC2	KCNMB2	KDM5D	KIF15	KLB	KLHL38
ITPA	JPT2	KCNC3	KCNMB3	KDM6A	KIF16B	KLC1	KLHL4
ITPK1	JRK	KCNC4	KCNMB4	KDM6B	KIF17	KLC2	KLHL40
ITPKA	JRKL	KCND1	KCNN1	KDM7A	KIF18A	KLC3	KLHL41
ITPKB	JSRP1	KCND2	KCNN2	KDM8	KIF18B	KLC4	KLHL42
ITPKC	JTB	KCND3	KCNN3	KDR	KIF19	KLF1	KLHL5
ITPR1	JUN	KCNE1_KCNE1B	KCNN4	KDSR	KIF1A	KLF10	KLHL6
ITPR2	JUNB	KCNE2	KCNQ1	KEAP1	KIF1B	KLF11	KLHL7
ITPR3	JUND	KCNE3	KCNQ2	KEL	KIF1C	KLF12	KLHL8
ITPRID1	JUP	KCNE4	KCNQ3	KERA	KIF20A	KLF13	KLHL9
ITPRID2	KAAG1	KCNE5	KCNQ4	KHDC1	KIF20B	KLF14	KLK1
ITPRIP	KALRN	KCNF1	KCNQ5	KHDC1L	KIF21A	KLF15	KLK10
ITPRIPL1	KANK1	KCNG1	KCNRG	KHDC3L	KIF21B	KLF16	KLK11
ITPRIPL2	KANK2	KCNG2	KCNS1	KHDC4	KIF22	KLF17	KLK12
ITSN1	KANK3	KCNG3	KCNS2	KHDRBS1	KIF23	KLF18	KLK13
ITSN2	KANK4	KCNG4	KCNS3	KHDRBS2	KIF24	KLF2	KLK14
IVD	KANSL1	KCNH1	KCNT1	KHDRBS3	KIF25	KLF3	KLK15
IVL	KANSL1L	KCNH2	KCNT2	KHK	KIF26A	KLF4	KLK2
IVNS1ABP	KANSL2	KCNH3	KCNU1	KHNYN	KIF26B	KLF5	KLK3
IWS1	KANSL3	KCNH4	KCNV1	KHSRP	KIF27	KLF6	KLK4
IYD	KARS1	KCNH5	KCNV2	KIAA0040	KIF2A	KLF7	KLK5
IZUM01	KAT14	KCNH6	KCP	KIAA0100	KIF2B	KLF8	KLK6
IZUM01R	KAT2A	KCNH7	KCTD1	KIAA0232	KIF2C	KLF9	KLK7
IZUM02	KAT2B	KCNH8	KCTD10	KIAA0319	KIF3A	KLHDC1	KLK8
IZUM03	KAT5	KCNIP1	KCTD11	KIAA0319L	KIF3B	KLHDC10	KLK9
IZUM04	KAT6A	KCNIP2	KCTD12	KIAA0408	KIF3C	KLHDC2	KLKB1
JADE1	KAT6B	KCNIP3	KCTD13	KIAA0513	KIF4A	KLHDC3	KLLN
JADE2	KAT7	KCNIP4	KCTD14	KIAA0586	KIF4B	KLHDC4	KLRB1
JADE3	KAT8	KCNJ1	KCTD15	KIAA0753	KIF5A	KLHDC7A	KLRC1
JAG1	KATNA1	KCNJ10	KCTD16	KIAA0754	KIF5B	KLHDC7B	KLRC1_KLRC2
JAG2	KATNAL1	KCNJ11	KCTD17	KIAA0825	KIF5C	KLHDC8A	KLRC2
JAGN1	KATNAL2	KCNJ12	KCTD18	KIAA0895	KIF6	KLHDC8B	KLRC3
JAK1	KATNB1	KCNJ13	KCTD19	KIAA0895L	KIF7	KLHDC9	KLRC4_KLRC4-KLRK1
JAK2	KATNB1L	KCNJ14	KCTD2	KIAA0930	KIF9	KLH1	KLRC4-KLRK1
JAK3	KATNIP	KCNJ15	KCTD20	KIAA1109	KIFAP3	KLHL10	KLRD1
JAKMIP1	KAZALD1	KCNJ16	KCTD21	KIAA1143	KIFBP	KLHL11	KLRF1
JAKMIP2	KAZN	KCNJ18	KCTD3	KIAA1191	KIFC1	KLHL12	KLRF2
JAKMIP3	KBTBD11	KCNJ2	KCTD4	KIAA1210	KIFC2	KLHL13	KLRG1
JAM2	KBTBD12	KCNJ3	KCTD5	KIAA1211L	KIFC3	KLHL14	KLRG2
JAM3	KBTBD13	KCNJ4	KCTD6	KIAA1257	KIN	KLHL15	KLRK1
JAML	KBTBD2	KCNJ5	KCTD7	KIAA1324	KIR2D_Family	KLHL17	KMO
JARID2	KBTBD3	KCNJ6	KCTD8	KIAA1324L	KIR2DL_Family	KLHL18	KMT2A
JAZF1	KBTBD4	KCNJ8	KCTD9	KIAA1328	KIR2DL_Family_T2	KLHL2	KMT2B
JCAD	KBTBD6	KCNJ9	KDELRI	KIAA1522	KIR2DL4_LOC112268354	KLHL20	KMT2C
JCHAIN	KBTBD7	KCNK1	KDELRI2	KIAA1549	KIR2DL5A_KIR2DL5B	KLHL21	KMT2D
JDP2	KBTBD8	KCNK10	KDELRI3	KIAA1549L	KIR2DL5B	KLHL22	KMT2E
JHY	KCMF1	KCNK12	KDF1	KIAA1586	KIR2DS_Family	KLHL23_PHOSPHO2-	KMT5A
JKAMP	KCNA1	KCNK13	KDM1A	KIAA1614	KIR2DS2_KIR2DS4	KLHL23	KMT5B
JMJD1C	KCNA10	KCNK15	KDM1B	KIAA1671	KIR3DL1	KLHL24	KMT5C
JMJD4	KCNA2	KCNK16	KDM2A	KIAA1755	KIR3DL2_3	KLHL25	KNCN
JMJD6	KCNA3	KCNK17	KDM2B	KIAA1841	KIR3DL3	KLHL26	KNDC1
JMJD7	KCNA4	KCNK18	KDM3A	KIAA1958	KIR3DS1_LOC112268355	KLHL28	KNG1
JMJD7-PLA2G4B	KCNA5	KCNK2	KDM3B	KIAA2012	KIRREL1	KLHL29	KNL1
JMJD8	KCNA6	KCNK3	KDM4A	KIAA2013	KIRREL2	KLHL3	KNOP1
JMY	KCNA7	KCNK4	KDM4B	KIAA2026	KIRREL3	KLHL30	KNSTRN
JOSD1	KCNAB1	KCNK5	KDM4C	KIDINS220	KISS1	KLHL31	KNTC1
JOSD2	KCNAB2	KCNK6	KDM4D	KIF11	KISS1R	KLHL32	KPNA1
JPH1	KCNAB3	KCNK7	KDM4E	KIF12	KIT	KLHL33	KPNA2

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KPNA3	KRT76	KRTAP2-3	LITD1	LATS2	LDLRAD1	LHFPL6	LIPH
KPNA4	KRT77	KRTAP23-1	L2HGDH	LAX1	LDLRAD2	LHPP	LIP1
KPNA5	KRT78	KRTAP2-4	L3HYPDH	LAYN	LDLRAD3	LHX1	LIPJ
KPNA6	KRT79	KRTAP24-1	L3MBTL1	LBH	LDLRAD4	LHX2	LIPK
KPNA7	KRT8	KRTAP25-1	L3MBTL2	LBHD1	LDLRAP1	LHX3	LIPM
KPNB1	KRT80	KRTAP26-1	L3MBTL3	LBHD2	LDOC1	LHX4	LIPN
KPRP	KRT81	KRTAP27-1	L3MBTL4	LBP	LEAP2	LHX5	LIPT1
KPTN	KRT82	KRTAP29-1	LACC1	LBR	LECT2	LHX6	LIPT2
KRAS	KRT83	KRTAP3-1	LACRT	LBX1	LEF1	LHX8	LITAF
KRBA1	KRT84	KRTAP3-2	LACTB	LBX2	LEFTY1	LHX9	LITAFD
KRBA2	KRT85	KRTAP3-3	LACTB2	LCA5	LEFTY2	LIAS	LIX1
KRBOX1	KRT86	KRTAP4_Family	LACTBL1	LCA5L	LEKR1	LIF	LIX1L
KRBOX4	KRT9	KRTAP4_Family_	LAD1	LCAT	LLEP1	LIFR	LKAAEAR1
KRCC1	KRTAP10_Family	LOC100996750	LAG3	LCE1A	LEMD1	LIG1	LLCFC1
KREMEN1	KRTAP10-1_KRTAP10-5	KRTAP4-1	LAGE3	LCE1B	LEMD2	LIG3	LLGL1
KREMEN2	KRTAP10-10	KRTAP4-11	LAIR1	LCE1C	LEMD3	LIG4	LLGL2
KRII	KRTAP10-11	KRTAP4-12	LAIR2	LCE1D	LENEP	LILRA1	LLPH
KRIT1	KRTAP10-12	KRTAP4-2	LALBA	LCE1E	LENG1	LILRA2	LMAN1
KRR1	KRTAP10-2	KRTAP4-3	LAMA1	LCE1F	LENG8	LILRA3	LMAN1L
KRT1	KRTAP10-3	KRTAP4-4	LAMA2	LCE2A	LENG9	LILRA4	LMAN2
KRT10	KRTAP10-4	KRTAP4-5	LAMA3	LCE2B	LEO1	LILRA5	LMAN2L
KRT12	KRTAP10-5	KRTAP4-6	LAMA4	LCE2C	LEP	LILRA6	LMBR1
KRT13	KRTAP10-6	KRTAP4-8	LAMA5	LCE2D	LEPR	LILRB1	LMBR1L
KRT14	KRTAP10-7	KRTAP5-1	LAMB1	LCE3_Family	LEPROT	LILRB2	LMBRD1
KRT15	KRTAP10-8	KRTAP5-10	LAMB2	LCE3A	LEPROTL1	LILRB3	LMBRD2
KRT16	KRTAP10-9	KRTAP5-11	LAMB3	LCE3C	LETM1	LILRB3_MultiLoc	LMCD1
KRT17	KRTAP1-1	KRTAP5-2	LAMB4	LCE3D	LETM2	LILRB4	LMF1
KRT18_39	KRTAP11-1	KRTAP5-3	LAMC1	LCE3E	LETMD1	LILRB5	LMF2
KRT19	KRTAP12-1	KRTAP5-4	LAMC2	LCE4A	LEUTX	LIM2	LMLN
KRT2	KRTAP12-2	KRTAP5-5	LAMC3	LCE5A	LEXM	LIMA1	LMLN2
KRT20	KRTAP12-3	KRTAP5-6	LAMP1	LCE6A	LFNG	LIMCH1	LMNA
KRT222	KRTAP12-4	KRTAP5-7	LAMP2	LCK	LGALS1	LIMD1	LMNB1
KRT23	KRTAP1-3	KRTAP5-8	LAMP3	LCLAT1	LGALS12	LIMD2	LMNB2
KRT24	KRTAP13-1	KRTAP5-9	LAMP5	LCMT1	LGALS13	LIME1	LMNTD1
KRT25	KRTAP13-2	KRTAP6-1	LAMTOR1	LCMT2	LGALS14	LIMK1	LMNTD2
KRT26	KRTAP13-3	KRTAP6-2	LAMTOR2	LCN1	LGALS16	LIMK2	LMO1
KRT27	KRTAP13-4	KRTAP6-3	LAMTOR3	LCN10	LGALS2	LIMS_Family	LMO2
KRT28	KRTAP1-4	KRTAP7-1	LAMTOR4	LCN12	LGALS3	LIMS1_LIMS4	LMO3
KRT3	KRTAP1-5	KRTAP8-1	LAMTOR5	LCN15	LGALS3BP	LIMS2	LMO4
KRT31	KRTAP15-1	KRTAP9-1	LANCL1	LCN2	LGALS4	LIN28A	LMO7
KRT32	KRTAP16-1	KRTAP9-2	LANCL2	LCN6	LGALS7_LGALS7B	LIN28B	LMOD1
KRT33A	KRTAP17-1	KRTAP9-2_KRTAP9-8	LANCL3	LCN8	LGALS8	LIN37	LMOD2
KRT33B	KRTAP19-1	KRTAP9-3	LAP3	LCN9	LGALS9	LIN52	LMOD3
KRT34	KRTAP19-2	KRTAP9-4	LAPTM4A	LCNL1	LGALS9_Family	LIN54	LMTK2
KRT35	KRTAP19-3	KRTAP9-6	LAPTM4B	LCOR	LGALS1	LIN7A	LMTK3
KRT36	KRTAP19-4	KRTAP9-7	LAPTM5	LCORL	LGI1	LIN7B	LMX1A
KRT37	KRTAP19-5	KRTAP9-9	LARGE1	LCP1	LGI2	LIN7C	LMX1B
KRT38	KRTAP19-6	KRTCAP2	LARGE2	LCP2	LGI3	LIN9	LNP1
KRT39	KRTAP19-7	KRTCAP3	LARP1	LCT	LGI4	LINC01638	LNPEP
KRT4	KRTAP19-8	KRTDAP	LARP1B	LCTL	LGMN	LINC02210-CRHR1	LNPK
KRT40	KRTAP20-1	KSR1	LARP4	LDAAH	LGR4	LINC02801	LNX1
KRT5	KRTAP20-2	KSR2	LARP4B	LDB1	LGR5	LINGO1	LNX2
KRT6A	KRTAP20-3	KTI12	LARP6	LDB2	LGR6	LINGO2	LOC_Multi_1
KRT6B	KRTAP20-4	KTN1	LARP7	LDB3	LGSN	LINGO3	LOC_Multi_2
KRT6C	KRTAP2-1	KXD1	LARS1	LDHA	LHB	LINGO4	LOC_Multi_3
KRT7	KRTAP21-1	KY	LARS2	LDHAL6A	LHCGR	LINS1	LOC_Multi_POM121
KRT71	KRTAP21-2	KYAT1	LAS1L	LDHAL6B	LHFPL1	LIPA	LOC100129098
KRT72	KRTAP21-3	KYAT3	LASP1	LDHB	LHFPL2	LIPC	LOC100129307
KRT73	KRTAP2-2	KYNU	LAT	LDHC	LHFPL3	LIPF	LOC100129484
KRT74	KRTAP22-1	L_Family	LAT2	LDHD	LHFPL4	LIPF	LOC100130520
KRT75	KRTAP22-2	L1CAM	LATS1	LDLR	LHFPL5	LIPG	LOC100131107

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LOC100132202_	LOC102723407	LOC105372977	LOC105379554	LOC107985773	LOC107987388	LOC441239	LRIT1
LOC645202	LOC102723532	LOC105373057	LOC105379561	LOC107985778	LOC107987457	LOC643802	LRIT2
LOC100133315	LOC102723728	LOC105373091	LOC105379752	LOC107985792	LOC107987545	LOC644090	LRIT3
LOC100286986	LOC102723750	LOC105373102	LOC107983958	LOC107985795	LOC110117498-PIK3R3	LOC645177	LRMDA
LOC100287036	LOC102723899	LOC105373133	LOC107983981	LOC107985798	LOC112267855	LOC645188	LRMP
LOC100287896	LOC102723930	LOC105373154	LOC107983983	LOC107985805	LOC112267857	LOC647264	LRP1
LOC100289561	LOC102723971	LOC105373242	LOC107983989	LOC107985876	LOC112267859	LOC728392	LRP10
LOC100421372	LOC102724151	LOC105373244	LOC107983990	LOC107985896	LOC112267876	LOC730098	LRP11
LOC100505502	LOC102724197	LOC105373314	LOC107983998	LOC107985931	LOC112267881	LOC730183	LRP12
LOC100505841	LOC102724200	LOC105373347	LOC107984014	LOC107986004	LOC112267886	LONP1	LRP1B
LOC100506422	LOC102724237	LOC105373392	LOC107984025	LOC107986035	LOC112267897	LONP2	LRP2
LOC100506514	LOC102724250_NBPF1	LOC105373395	LOC107984043	LOC107986084	LOC112267904	LONRF1	LRP2BP
LOC100509620	LOC102724265	LOC105373750	LOC107984104	LOC107986113	LOC112267910	LONRF2	LRP3
LOC100652777	LOC102724474	LOC105373780	LOC107984124	LOC107986175	LOC112267930	LONRF3	LRP4
LOC100652833	LOC102724485	LOC105373944	LOC107984126	LOC107986211	LOC112267939	LORICRIN	LRP5
LOC100652871	LOC102724488	LOC105373985	LOC107984138	LOC107986215	LOC112267940	LOX	LRP5L
LOC100653049	LOC102724642	LOC105373989	LOC107984139	LOC107986217	LOC112267947	LOXHD1	LRP6
LOC100996413	LOC102724657	LOC105374013	LOC107984156	LOC107986244	LOC112267951	LOXL1	LRP8
LOC100996413_	LOC102724751	LOC105374103	LOC107984189	LOC107986453	LOC112267964	LOXL2	LRPAP1
LOC101060588	LOC102724813	LOC105374299	LOC107984203	LOC107986531	LOC112267968	LOXL3	LRPPRC
LOC100996574	LOC102724877	LOC105374301	LOC107984264	LOC107986532	LOC112267971	LOXL4	LRR1
LOC100996598	LOC102724957	LOC105374314	LOC107984351	LOC107986554	LOC112267992	LPA	LRRC1
LOC100996701	LOC102724965	LOC105374811	LOC107984449	LOC107986596	LOC112268052	LPAR1	LRRC10
LOC100996709	LOC102724971	LOC105375107	LOC107984512	LOC107986677	LOC112268076	LPAR2	LRRC10B
LOC100996747	LOC102725180	LOC105375112	LOC107984590	LOC107986755	LOC112268080	LPAR3	LRRC14
LOC100996842	LOC105369176	LOC105375116	LOC107984638	LOC107986762	LOC112268092	LPAR4	LRRC14B
LOC101059906	LOC105369214	LOC105375809	LOC107984745	LOC107986800	LOC112268131	LPAR5	LRRC15
LOC101059915	LOC105369246	LOC105375816	LOC107984751	LOC107986860	LOC112268145	LPAR6	LRRC17
LOC101059949	LOC105369274	LOC105375817	LOC107984814	LOC107986908	LOC112268168	LPCAT1	LRRC18
LOC101060024	LOC105369274_OR4N4	LOC105375938	LOC107984817	LOC107986910	LOC112268184	LPCAT2	LRRC19
LOC101060179	LOC105369535	LOC105375975	LOC107984832	LOC107986982	LOC112268186	LPCAT3	LRRC2
LOC101060341	LOC105369591	LOC105376204	LOC107984833	LOC107987004	LOC112268211	LPCAT4	LRRC20
LOC101927345	LOC105369669	LOC105376335	LOC107984851	LOC107987004_67	LOC112268260	LPGAT1	LRRC23
LOC101927375	LOC105369869	LOC105376341	LOC107984859	LOC107987013	LOC112268270	LPIN1	LRRC24
LOC101927572	LOC105369914	LOC105376526	LOC107984862	LOC107987035	LOC112268271	LPIN2	LRRC25
LOC101928120	LOC105370691	LOC105376678	LOC107984876	LOC107987042	LOC112268342	LPIN3	LRRC26
LOC101928193	LOC105370706	LOC105376714	LOC107984902_	LOC107987044	LOC112268350	LPL	LRRC27
LOC101928212	LOC105370733	LOC105376731	LOC107987236	LOC107987048	LOC112268354	LPO	LRRC28
LOC101928268	LOC105370849	LOC105376747	LOC107984974	LOC107987099	LOC112268384	LPP	LRRC29
LOC101928436	LOC105370980	LOC105376791	LOC107985021	LOC107987125	LOC112268387	LPXN	LRRC3
LOC101928548	LOC105371095_	LOC105376875	LOC107985022	LOC107987158	LOC112268390_95	LRAT	LRRC30
LOC101928589	LOC105376747	LOC105377021	LOC107985082	LOC107987175	LOC112268437	LRATD1	LRRC31
LOC101928592	LOC105371191	LOC105377022	LOC107985103	LOC107987233	LOC112268444	LRATD2	LRRC32
LOC101928764	LOC105371253	LOC105377310	LOC107985115	LOC107987235	LOC112577516	LRBA	LRRC34
LOC101928841	LOC105371371	LOC105377622	LOC107985149	LOC107987236	LOC112577592	LRCH1	LRRC36
LOC101928879	LOC105371409	LOC105377641	LOC107985320	LOC107987237	LOC112694756	LRCH2	LRRC37A_Family
LOC101929372	LOC105371419	LOC105377650	LOC107985381	LOC107987238	LOC114841035	LRCH3	LRRC37A3
LOC101929400	LOC105371932	LOC105377746	LOC107985388	LOC107987243	LOC150051	LRCH4	LRRC37B
LOC101929601_	LOC105371933	LOC105377805	LOC107985410	LOC107987248	LOC283710	LRCH4_ZASP	LRRC38
LOC101929627	LOC105372204	LOC105378105	LOC107985416	LOC107987254	LOC284898	LRCOL1	LRRC39
LOC101929738	LOC105372269	LOC105378148	LOC107985433	LOC107987269	LOC388282	LRFN1	LRRC3B
LOC101929773	LOC105372319	LOC105378161	LOC107985532	LOC107987276	LOC388813	LRFN2	LRRC3C
LOC101929805	LOC105372412	LOC105378193	LOC107985535	LOC107987285	LOC389199	LRFN3	LRRC4
LOC101929937	LOC105372440	LOC105378862	LOC107985555	LOC107987288	LOC389602	LRFN4	LRRC40
LOC101929959	LOC105372478	LOC105378947	LOC107985556	LOC107987289	LOC389831	LRFN5	LRRC41
LOC101930047	LOC105372585	LOC105378979	LOC107985657	LOC107987290	LOC389895	LRG1	LRRC42
LOC101930307	LOC105372704	LOC105379198	LOC107985678	LOC107987363	LOC390877	LRGUK	LRRC43
LOC101930420	LOC105372714	LOC105379356	LOC107985687	LOC107987372	LOC391322	LRIF1	LRRC45
LOC101930434	LOC105372798	LOC105379417	LOC107985692	LOC107987373	LOC400499	LRIG1	LRRC46
LOC102723360	LOC105372824	LOC105379533	LOC107985728	LOC107987382	LOC401040	LRIG2	LRRC47
LOC102723382	LOC105372836	LOC105379547	LOC107985729	LOC107987386	LOC441155	LRIG3	LRRC49

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LRRC4B	LSM3	LYNX1	MAFK	MAN1B1	MAP7D1	MAST3	MCL1
LRRC4C	LSM4	LYNX1-SLURP2	MAG	MAN1C1	MAP7D2	MAST4	MCM10
LRRC52	LSM5	LYPD1	MAGEA1	MAN2A1	MAP7D3	MASTL	MCM2
LRRC53	LSM6	LYPD2	MAGEA10	MAN2A2	MAP9	MAT1A	MCM3
LRRC55	LSM7	LYPD3	MAGEA10-MAGEA5	MAN2B1	MAPK1	MAT2A	MCM3AP
LRRC56	LSM8	LYPD4	MAGEA11	MAN2B2	MAPK10	MAT2B	MCM4
LRRC57	LSMEM1	LYPD5	MAGEA12	MAN2C1	MAPK11	MATK	MCM5
LRRC58	LSMEM2	LYPD6	MAGEA2_MAGEA2B	MANBA	MAPK12	MATN1	MCM6
LRRC59	LSP1	LYPD6B	MAGEA3	MANBAL	MAPK13	MATN2	MCM7
LRRC6	LSR	LYPD8	MAGEA4	MANEA	MAPK14	MATN3	MCM8
LRRC61	LSS	LYPLA1	MAGEA5	MANEAL	MAPK15	MATN4	MCM9
LRRC63	LST1	LYPLA2	MAGEA6	MANF	MAPK11P1L	MATR3	MCMBP
LRRC66	LTA	LYPLAL1	MAGEA8	MANSC1	MAPK3	MAU2	MCMDC2
LRRC69	LTA4H	LYRM1	MAGEA9_MAGEA9B	MANSC4	MAPK4	MAVS	MCOLN1
LRRC7	LTB	LYRM2	MAGEB1	MAOA	MAPK6	MAX	MCOLN2
LRRC70	LTB4R	LYRM4	MAGEB10	MAOB	MAPK7	MAZ	MCOLN3
LRRC71	LTB4R2	LYRM7	MAGEB16	MAP10	MAPK8	MB	MCPH1
LRRC72	LTBP1	LYRM9	MAGEB17	MAP11	MAPK8IP1	MB21D2	MCRIP1
LRRC73	LTBP2	LYSMD1	MAGEB18	MAP1A	MAPK8IP2	MBD1	MCRIP2
LRRC74A	LTBP3	LYSMD2	MAGEB2	MAP1B	MAPK8IP3	MBD2	MCRS1
LRRC74B	LTBP4	LYSMD3	MAGEB3	MAP1LC3A	MAPK9	MBD3	MCTP1
LRRC75A	LTBR	LYSMD4	MAGEB4	MAP1LC3B	MAPKAP1	MBD3L_Family	MCTP2
LRRC75B	LTC4S	LYST	MAGEB5	MAP1LC3B_MAP1LC3B2	MAPKAPK2	MBD3L1	MCTS1
LRRC8A	LTF	LYVE1	MAGEB6	MAP1LC3C	MAPKAPK3	MBD4	MCU
LRRC8B	LTK	LYZ	MAGEC1	MAP1S	MAPKAPK5	MBD5	MCUB
LRRC8C	LTN1	LYZL1_LYZL2	MAGEC2	MAP2	MAPKBP1	MBD6	MCUR1
LRRC8D	LT01	LYZL4	MAGEC3	MAP2K1	MAPRE1	MBIP	MDC1
LRRC8E	LTV1	LYZL6	MAGED1	MAP2K2	MAPRE2	MBL2	MDF1
LRRC9	LUC7L	LZIC	MAGED2	MAP2K3	MAPRE3	MBLAC1	MDFIC
LRRC1	LUC7L2	LZTFL1	MAGED4_MAGED4B	MAP2K4	MAPT	MBLAC2	MDFIC2
LRRD1	LUC7L3	LZTR1	MAGEE1	MAP2K5	MARCHF1	MBNL1	MDGA1
LRRFIP1	LUM	LZTS1	MAGEE2	MAP2K6	MARCHF10	MBNL2	MDGA2
LRRFIP2	LURAP1	LZTS2	MAGEF1	MAP2K7	MARCHF11	MBNL3	MDH1
LRRIQ1	LURAP1L	LZTS3	MAGEH1	MAP3K1	MARCHF2	MBOAT1	MDH1B
LRRIQ3	LUZP1	M1AP	MAGEL2	MAP3K10	MARCHF3	MBOAT2	MDH2
LRRIQ4	LUZP2	M6PR	MAGI1	MAP3K11	MARCHF4	MBOAT4	MDK
LRRK1	LUZP4	MAATS1	MAGI2	MAP3K12	MARCHF5	MBOAT7	MDM1
LRRK2	LUZP6	MAB21L1	MAGI3	MAP3K13	MARCHF6	MBP	MDM2
LRRN1	LUZP6_MTPN	MAB21L2	MAGIX	MAP3K14	MARCHF7	MBTD1	MDM4
LRRN2	LVRN	MAB21L3	MAGOH	MAP3K15	MARCHF8	MBTPS1	MDN1
LRRN3	LXN	MAB21L4	MAGOHB	MAP3K19	MARCHF9	MBTPS2	MDP1
LRRN4	LY6D	MACC1	MAGT1	MAP3K2	MARCKS	MC1R	MDS2
LRRN4CL	LY6E	MACF1	MAIP1	MAP3K20	MARCKSL1	MC2R	ME1
LRRTM1	LY6G5B	MACO1	MAJIN	MAP3K21	MARCO	MC3R	ME2
LRRTM2	LY6G5C	MACROD1	MAK	MAP3K3	MARCOL	MC4R	ME3
LRRTM3	LY6G6C	MACROD2	MAK16	MAP3K4	MARF1	MC5R	MEA1
LRRTM4	LY6G6D_LY6G6F-LY6G6D	MACROH2A2	MAL	MAP3K5	MARK1	MCAM	MEAF6
LRSAM1	LY6G6F	MAD1L1	MAL2	MAP3K6	MARK2	MCAT	MEAK7
LRTM1	LY6H	MAD2L1	MALL	MAP3K7	MARK3	MCC	MECOM
LRTM2	LY6K	MAD2L1BP	MALRD1	MAP3K7CL	MARK4	MCCC1	MECP2
LRTOMT	LY6L	MAD2L2	MALSU1	MAP3K8	MARS1	MCCC2	MECR
LRWD1	LY75	MADCAM1	MALT1	MAP3K9	MARS2	MCCD1_GNL1	MED1
LSAMP	LY75-CD302	MADD	MAMDC2	MAP4	MARVELD1	MCEE	MED10
LSG1	LY86	MAEA	MAMDC4	MAP4K1	MARVELD2	MCEMP1	MED11
LSM1	LY9	MAEL	MAML1	MAP4K2	MARVELD3	MCF2	MED12
LSM10	LY96	MAF	MAML2	MAP4K3	MAS1	MCF2L	MED12L
LSM11	LYAR	MAF1	MAML3	MAP4K4	MAS1L	MCF2L2	MED13
LSM12	LYG1	MAFA	MAMLD1	MAP4K5	MASP1	MCFD2	MED13L
LSM14A	LYG2	MAFB	MAMSTR	MAP6	MASP2	MCHR1	MED14
LSM14B	LYL1	MAFF	MANTA1	MAP6D1	MAST1	MCHR2	MED15
LSM2	LYN	MAFG	MANTA2	MAP7	MAST2	MCIDAS	MED16

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# Probe List

## HTG Transcriptome Panel



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Continued

MED17	METTL1	MGAM	MINDY4	MMP10	MORC4	MRFAP1L1	MRPL46
MED18	METTL11B	MGAM2	MINDY4B	MMP11	MORF4L1	MRGBP	MRPL47
MED19	METTL14	MGARP	MINK1	MMP12	MORF4L2	MRGPRD	MRPL48
MED20	METTL15	MGAT1	MINPP1	MMP13	MORN1	MRGPRE	MRPL49
MED21	METTL16	MGAT2	MIOS	MMP14	MORN2	MRGPRF	MRPL50
MED22	METTL17	MGAT3	MIOX	MMP15	MORN3	MRGPRG	MRPL51
MED23	METTL18	MGAT4A	MIP	MMP16	MORN4	MRGPRX1	MRPL52
MED24	METTL21A	MGAT4B	MIP	MMP17	MORN5	MRGPRX2	MRPL53
MED25	METTL21C	MGAT4C	MIPOL1	MMP19	MOS	MRGPRX3	MRPL54
MED26	METTL22	MGAT4D	MIR1-1HG	MMP2	MOSMO	MRGPRX4	MRPL55
MED27	METTL23	MGAT5	MIS12	MMP20	MOSPD1	MRI1	MRPL57
MED28	METTL24	MGAT5B	MIS18A	MMP21	MOSPD2	MRLN	MRPL58
MED29	METTL25	MGLL	MIS18BP1	MMP23B	MOSPD3	MRM1	MRPL9
MED30	METTL26	MGME1	MISP	MMP24	MOV10	MRM2	MRPS10
MED31	METTL27	MGMT	MISP3	MMP24-AS1-EDEM2	MOV10L1	MRM3	MRPS11
MED4	METTL2A	MGP	MITD1	MMP24OS	MOXD1	MRNIP	MRPS12
MED6	METTL2A_METTL2B	MGRN1	MITF	MMP25	MPC1	MRO	MRPS14
MED7	METTL3	MGST1	MIXL1	MMP26	MPC1L	MROH1	MRPS15
MED8	METTL4	MGST2	MKI67	MMP27	MPC2	MROH2A	MRPS16
MED9	METTL5	MGST3	MKKS	MMP28	MPDU1	MROH2B	MRPS17
MEDAG	METTL6	MIA	MKLN1	MMP3	MPDZ	MROH5	MRPS18A
MEF2A	METTL7A	MIA2	MKNK1	MMP7	MPEG1	MROH6	MRPS18B
MEF2B	METTL7B	MIA3	MKNK2	MMP8	MPG	MROH7	MRPS18C
MEF2C	METTL8	MIB1	MKRN1	MMP9	MPHOSPH10	MROH8	MRPS2
MEF2D	METTL9	MIB2	MKRN2	MMRN1	MPHOSPH6	MROH9	MRPS21
MEFV	MEX3A	MICA	MKRN2OS	MMRN2	MPHOSPH8	MRPL1	MRPS22
MEGF10	MEX3B	MICAL1	MKRN3	MMS19	MPHOSPH9	MRPL10	MRPS23
MEGF11	MEX3C	MICAL2	MKS1	MMS22L	MPI	MRPL11	MRPS24
MEGF6	MEX3D_Family	MICAL3	MKX	MMUT	MPIG6B	MRPL12	MRPS25
MEGF8	MFAP1	MICALCL	MLANA	MN1	MPL	MRPL13	MRPS26
MEGF9	MFAP2	MICALL1	MLC1	MNAT1	MPLKIP	MRPL14	MRPS27
MEI1	MFAP3	MICALL2	MLEC	MND1	MPND	MRPL15	MRPS28
MEI4	MFAP3L	MICB	MLF1	MNDA	MPO	MRPL16	MRPS30
MEIG1	MFAP4	MICOS10	MLF2	MNS1	MPP1	MRPL17	MRPS31
MEIKIN	MFAP5	MICOS10-NBL1	MLH1	MNT	MPP2	MRPL18	MRPS33
MEIOB	MFF	MICOS13	MLH3	MXN1	MPP3	MRPL19	MRPS34
MEIOC	MFGE8	MICU1	MLIP	MOAP1	MPP4	MRPL2	MRPS35
MEIS1	MFHAS1	MICU2	MLKL	MOB1A	MPP5	MRPL20	MRPS36
MEIS2	MFN1	MICU3	MLLT1	MOB1B	MPP6	MRPL21	MRPS5
MEIS3	MFN2	MID1	MLLT10	MOB2	MPP7	MRPL22	MRPS6
MELK	MFNG	MID1IP1	MLLT11	MOB3A	MPPE1	MRPL23	MRPS7
MELTF	MFRP	MID2	MLLT3	MOB3B	MPPED1	MRPL24	MRPS9
MEMO1	MFSD1	MIDEAS	MLLT6	MOB3C	MPPED2	MRPL27	MRRF
MEN1	MFSD10	MIDN	MLN	MOB4	MPRIP	MRPL28	MRS2
MEOX1	MFSD11	MIEF1	MLNR	MOBP	MPST	MRPL3	MRTFA
MEOX2	MFSD12	MIEF2	MLPH	MOCOS	MPV17	MRPL30	MRTFB
MEP1A	MFSD13A	MIEN1	MLST8	MOC1	MPV17L	MRPL32	MRT04
MEP1B	MFSD14A	MIER1	MLX	MOC2	MPV17L2	MRPL33	MS4A1
MEPCE	MFSD14B	MIER2	MLXIP	MOC3	MPZ	MRPL34	MS4A10
MEPE	MFSD14B_MFSD14C	MIER3	MLXIPL	MOG	MPZL1	MRPL35	MS4A12
MERTK	MFSD2A	MIF	MLYCD	MOGAT1	MPZL2	MRPL36	MS4A13
MESD	MFSD2B	MIF4GD	MMAA	MOGAT2	MPZL3	MRPL37	MS4A14
MESP1	MFSD3	MIGA1	MMAB	MOGAT3	MR1	MRPL38	MS4A15
MESP2	MFSD4A	MIGA2	MMACHC	MOGS	MRAP	MRPL39	MS4A18
MEST	MFSD4B	MIIP	MMADHC	MOK	MRAP2	MRPL4	MS4A2
MET	MFSD5	MILR1	MMD	MON1A	MRAS	MRPL40	MS4A3
METAP1	MFSD6	MINAR1	MMD2	MON1B	MRC1	MRPL41	MS4A4A
METAP1D	MFSD6L	MINAR2	MME	MON2	MRC2	MRPL42	MS4A4E
METAP2	MFSD8	MINDY1	MME1	MORC1	MRE11	MRPL43	MS4A5
METRN	MFSD9	MINDY2	MMGT1	MORC2	MREG	MRPL44	MS4A6A
METRNL	MGA	MINDY3	MMP1	MORC3	MRFAP1	MRPL45	MS4A6E

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MS4A7	MTERF1	MTX3	MYEOV	MYO9A	NACC2	NBPF10	NDFIP2
MS4A8	MTERF2	MUC1	MYF5	MYO9B	NADK	NBPF11_NBPF12	NDN
MSANTD1	MTERF3	MUC12	MYF6	MYOC	NADK2	NBPF15	NDNF
MSANTD2	MTERF4	MUC13	MYH1	MYOCD	NADSYN1	NBPF20	NDOR1
MSANTD3	MTF1	MUC15	MYH10	MYOCOS	NAE1	NBPF3	NDP
MSANTD3-TMEFF1	MTF2	MUC16	MYH11	MYOD1	NAF1	NBPF4_NBPF6	NDRG1
MSANTD4	MTFMT	MUC17	MYH13	MYOF	NAGA	NBPF6	NDRG2
MSC	MTFP1	MUC19	MYH14	MYOG	NAGK	NBPF7	NDRG3
MSGN1	MTFR1	MUC2	MYH15	MYOM1	NAGLU	NBPF8	NDRG4
MSH2	MTFR1L	MUC20	MYH2	MYOM2	NAGPA	NBR1	NDST1
MSH3	MTFR2	MUC21	MYH3	MYOM3	NAGS	NCALD	NDST2
MSH4	MTG1	MUC22	MYH4	MYORG	NAIF1	NCAM1	NDST3
MSH5	MTG2	MUC3A	MYH6	MYOT	NAIP	NCAM2	NDST4
MSH6	MTHFD1	MUC4	MYH7	MYOZ1	NALCN	NCAN	NDUFA1
MSI1	MTHFD1L	MUC5AC	MYH7B	MYOZ2	NAMPT	NCAPD2	NDUFA10
MSI2	MTHFD2	MUC5B	MYH8	MYOZ3	NANOG_NANOGP8	NCAPD3	NDUFA11
MSL1	MTHFD2L	MUC6	MYH9	MYPN	NANOGNB	NCAPG	NDUFA12
MSL2	MTHFR	MUC7	MYL1	MYPOP	NANOS1	NCAPG2	NDUFA13
MSL3	MTHFS	MUC8	MYL10	MYRF	NANOS2	NCAPH	NDUFA2
MSLN	MTHFSD	MUCL1	MYL12A_B	MYRFL	NANOS3	NCAPH2	NDUFA3
MSMB	MTIF2	MUCL3	MYL12B	MYRIP	NANP	NCBP1	NDUFA4
MSM01	MTIF3	MUL1	MYL2	MYSM1	NANS	NCBP2	NDUFA4L2
MSMP	MTLN	MUS81	MYL3	MYT1	NAP1L1	NCBP2AS2	NDUFA5
MSN	MTM1	MUSK	MYL4	MYT1L	NAP1L2	NCBP2L	NDUFA6
MSR1	MTMR1	MUSTN1	MYL5	MYZAP	NAP1L3	NCBP3	NDUFA7
MSRA	MTMR10	MUTYH	MYL6	MZB1	NAP1L4	NCCRP1	NDUFA8
MSRB1	MTMR11	MVB12A	MYL6B	MZF1	NAP1L5	NCN	NDUFA9
MSRB2	MTMR12	MVB12B	MYL7	MZT1	NAPA	NCEH1	NDUFAB1
MSRB3	MTMR14	MVD	MYL9	MZT2A_MZT2B	NAPB	NCF1	NDUFAF1
MSS51	MTMR2	MVK	MYLIP	MZT2B	NAPEPLD	NCF2	NDUFAF2
MST1	MTMR3	MVP	MYLK	N4BP1	NAPG	NCF4	NDUFAF3
MST1L	MTMR4	MX1	MYLK2	N4BP2	NAPRT	NCK1	NDUFAF4
MST1R	MTMR6	MX2	MYLK3	N4BP2L1	NAPSA	NCK2	NDUFAF5
MSTN	MTMR7	MXD1	MYLK4	N4BP2L2	NARF	NCKAP1	NDUFAF6
MSTO1	MTMR8	MXD3	MYLPF	N4BP3	NARS1	NCKAP1L	NDUFAF7
MSX1	MTMR9	MXD4	MYMK	N6AMT1	NARS2	NCKAP5	NDUFAF8
MSX2	MTNR1A	MXI1	MYMX	NAA10	NASP	NCKAP5L	NDUFB1
MT1A	MTNR1B	MXRA5	MYNN	NAA11	NAT1	NCKIPSD	NDUFB10
MT1B	MTO1	MXRA7	MYO10	NAA15	NAT10	NCL	NDUFB11
MT1E	MTOR	MXRA8	MYO15A	NAA16	NAT14	NCLN	NDUFB2
MT1F	MTPAP	MYADM	MYO15B	NAA20	NAT16	NCMAP	NDUFB3
MT1G	MTR	MYADML2	MYO16	NAA25	NAT2	NCOA1	NDUFB4
MT1H	MTRFS1	MYB	MYO18A	NAA30	NAT8	NCOA2	NDUFB5
MT1HL1	MTREX	MYBBP1A	MYO18B	NAA35	NAT8B	NCOA3	NDUFB6
MT1M	MTRF1	MYBL1	MYO19	NAA38	NAT8L	NCOA4	NDUFB7
MT1X	MTRF1L	MYBL2	MYO1A	NAA40	NAT9	NCOA5	NDUFB8
MT2A	MTRNR2L10	MYBPC1	MYO1B	NAA50	NATD1	NCOA6	NDUFB9
MT3	MTRNR2L3	MYBPC2	MYO1C	NAA60	NAV1	NCOA7	NDUFC1
MT4	MTRNR2L5	MYBPC3	MYO1D	NAA80	NAV2	NCOR1	NDUFC2
MTA1	MTRNR2L6	MYBPH	MYO1E	NAAA	NAV3	NCOR2	NDUFC2_NDUFC2-KCTD14
MTA2	MTRNR2L7	MYBPHL	MYO1F	NAALAD2	NAXD	NCR1	NDUFS1
MTA3	MTRNR2L9	MYC	MYO1G	NAALADL1	NAXE	NCR2	NDUFS2
MTAP	MTRR	MYCBP	MYO1H	NAALADL2	NBAS	NCR3	NDUFS3
MTARC1	MTSS1	MYCBP2	MYO3A	NAB1	NBDY	NCR3LG1	NDUFS4
MTARC2	MTSS2	MYCBPAP	MYO3B	NAB2	NBEA	NCS1	NDUFS5
MTBP	MTTP	MYCL	MYO5A	NABP1	NBEAL1	NCSTN	NDUFS6
MTCH1	MTURN	MYCN	MYO5B	NABP2	NBEAL2	NDC1	NDUFS7
MTCH2	MTUS1	MYCT1	MYO5C	NACA	NBL1	NDC80	NDUFS8
MTCL1	MTUS2	MYD88	MYO6	NACA2	NBN	NDE1	NDUFV1
MTCP1	MTX1	MYDGF	MYO7A	NACAD	NBPF_Family	NDEL1	NDUFV2
MTDH	MTX2	MYEF2	MYO7B	NACC1	NBPF1	NDFIP1	

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## HTG Transcriptome Panel



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NDUFV3	NEUROD1	NHSL1	NLGN2	NOD1	NPEPL1	NR2F2	NSUN2
NEB	NEUROD2	NHSL2	NLGN3	NOD2	NPEPPS	NR2F6	NSUN3
NEBL	NEUROD4	NIBAN1	NLGN4X	NODAL	NPFF	NR3C1	NSUN4
NECAB1	NEUROD6	NIBAN2	NLGN4X_NLGN4Y	NOG	NPFFR1	NR3C2	NSUN5
NECAB2	NEUROG1	NIBAN3	NLK	NOL10	NPFFR2	NR4A1	NSUN6
NECAB3	NEUROG2	NICN1	NLN	NOL11	NPHP1	NR4A2	NSUN7
NECAP1	NEUROG3	NID1	NLRC3	NOL12	NPHP3	NR4A3	NT5C
NECAP2	NEXMIF	NID2	NLRC4	NOL3	NPHP4	NR5A1	NT5C1A
NECTIN1	NEXN	NIF3L1	NLRC5	NOL4	NPHS1	NR5A2	NT5C1B
NECTIN2	NF1	NIFK	NLRP1	NOL4L	NPHS2	NR6A1	NT5C1B-RDH14
NECTIN3	NF2	NIM1K	NLRP10	NOL6	NPIPA_Family	NRAP	NT5C2
NECTIN4	NFAM1	NIN	NLRP11	NOL7	NPIPA8	NRARP	NT5C3A
NEDD1	NFASC	NINJ1	NLRP12	NOL8	NPIPB_Family	NRAS	NT5C3B
NEDD4	NFAT5	NINJ2	NLRP13	NOL9	NPIPB15	NRBF2	NT5DC1
NEDD4L	NFATC1	NINL	NLRP14	NOLC1	NPIPB2	NRBP1	NT5DC2
NEDD8	NFATC2	NIP7	NLRP2	NOM1	NPIPB6	NRBP2	NT5DC3
NEDD8-MDP1	NFATC2IP	NIPA1	NLRP2B	NOMO_Family	NPL	NRCAM	NT5DC4
NEDD9	NFATC3	NIPA2	NLRP3	NONO	NPLOC4	NRDC	NT5E
NEFH	NFATC4	NIPAL1	NLRP4	NOP10	NPM1	NRDE2	NT5M
NEFL	NFE2	NIPAL2	NLRP5	NOP14	NPM2	NREP	NTAN1
NEFM	NFE2L1	NIPAL3	NLRP6	NOP16	NPM3	NREP_T2	NTF3
NEGR1	NFE2L2	NIPAL4	NLRP7	NOP2	NPNT	NRF1	NTF4_NTF3
NEIL1	NFE2L3	NIPBL	NLRP8	NOP53	NPPA	NRG1	NTHL1
NEIL2	NFIA	NIPSNAP1	NLRP9	NOP56	NPPB	NRG2	NTM
NEIL3	NFIB	NIPSNAP2	NLRX1	NOP58	NPPC	NRG3	NTMT1
NEK1	NFIC	NIPSNAP3A	NMB	NOP9	NPR1	NRG4	NTN1
NEK10	NFIL3	NIPSNAP3B	NMBR	NOS1	NPR2	NRGN	NTN3
NEK11	NFILZ	NISCH	NMD3	NOS1AP	NPR3	NRIP1	NTN4
NEK2	NFIX	NIT1	NME1	NOS2	NPRL2	NRIP2	NTN5
NEK3	NFKB1	NIT2	NME1-NME2	NOS3	NPRL3	NRIP3	NTNG1
NEK4	NFKB2	NKAIN1	NME1-NME2_NME2	NOSIP	NPS	NRK	NTNG2
NEK5	NFKBIA	NKAIN2	NME3	NOSTRIN	NPSR1	NRL	NTPCR
NEK6	NFKBIB	NKAIN3	NME4	NOTCH1	NPTN	NRM	NTRK1
NEK7	NFKBID	NKAIN4	NME5	NOTCH2	NPTX1	NRN1	NTRK2
NEK8	NFKBIE	NKAP	NME6	NOTCH2NL_Family	NPTX2	NRN1L	NTRK3
NEK9	NFKBIL1	NKAPD1	NME7	NOTCH3	NPTXR	RRP1	NTS
NELFA	NFKBIZ	NKAPL	NME8	NOTCH4	NPVF	RRP2	NTSR1
NELFB	NFRKB	NKD1	NME9	NOTO	NPW	RRR0S	NTSR2
NELFCD	NFS1	NKD2	NMI	NOTUM	NPY	NRSN1	NUAK1
NELFE	NFU1	NKG7	NMNAT1	NOVA1	NPY1R	NRSN2	NUAK2
NELL1	NFX1	NKIRAS1	NMNAT2	NOVA2	NPY2R	NRTN	NUB1
NELL2	NFXL1	NKIRAS2	NMNAT3	NOX1	NPY4R_NPY4R2	NRXN1	NUBP1
NEMF	NFYA	NKPD1	NMRAL1	NOX3	NPY4R2	NRXN2	NUBP2
NEMP1	NFYB	NKRF	NMRK1	NOX4	NPY5R	NRXN3	NUBPL
NEMP2	NFYC	NKTR	NMRK2	NOX5	NQ01	NSA2	NUCB1
NENF	NGB	NKX1-1_HMX1_HMX3	NMS	NOXA1	NQ02	NSD1	NUCB2
NEO1	NGDN	NKX1-2	NMT1	NOXO1	NR0B1	NSD2	NUCKS1
NEPRO	NGEF	NKX2-1	NMT2	NOXRED1	NR0B2	NSD3	NUDC
NES	NGF	NKX2-2	NMU	NPAP1	NR1D1	NSDHL	NUDCD1
NET1	NGFR	NKX2-3	NMUR1	NPAS1	NR1D2	NSF	NUDCD2
NETO1	NGLY1	NKX2-4	NMUR2	NPAS2	NR1H2	NSFL1C	NUDCD3
NETO2	NGRN	NKX2-5	NNAT	NPAS3	NR1H3	NSG1	NUDT1
NEU1	NHEJ1	NKX2-6	NNMT	NPAS4	NR1H4	NSG2	NUDT10
NEU2	NHLH1	NKX2-8	NNT	NPAT	NR1I2	NSL1	NUDT11
NEU3	NHLH2	NKX3-1	NOA1	NPB	NR1I3	NSMAF	NUDT12
NEU4	NHLRC1	NKX3-2	NOB1	NPBWR1	NR2C1	NSMCE1	NUDT13
NEURL1	NHLRC2	NKX6-1	NOBOX	NPBWR2	NR2C2	NSMCE2	NUDT14
NEURL1B	NHLRC3	NKX6-2	NOC2L	NPC1	NR2C2AP	NSMCE3	NUDT15
NEURL2	NHLRC4	NKX6-3	NOC3L	NPC1L1	NR2E1	NSMCE4A	NUDT16
NEURL3	NHP2	NLE1	NOC4L	NPC2	NR2E3	NSMF	NUDT16L1
NEURL4	NHS	NLGN1	NOCT	NPDC1	NR2F1	NSRPI	NUDT17

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NUDT18	NXNL2	OGN	OR10G6	OR1F12	OR2T_Family	OR4M1_OR4M2	OR56A3
NUDT19	NXPE1	OGT	OR10G7	OR1G1	OR2T1	OR4N2	OR56A4
NUDT2	NXPE2	OIP5	OR10G8	OR1I1	OR2T10	OR4N5	OR56A5
NUDT21	NXPE3	OIT3	OR10G9	OR1J1	OR2T11	OR4P4	OR56B1
NUDT22	NXPE4	OLA1	OR10H1	OR1J2	OR2T12	OR4Q2	OR56B4
NUDT3	NXPH1	OLAH	OR10H2	OR1J4	OR2T2_OR2T35	OR4Q3	OR5A1
NUDT4	NXPH2	OLFM1	OR10H3	OR1K1	OR2T27_OR2T7	OR4S1	OR5A2
NUDT4_NUDT4B	NXPH3	OLFM2	OR10H4	OR1L1	OR2T3_OR2T34	OR4S2	OR5AC2
NUDT5	NXPH4	OLFM3	OR10H5	OR1L3	OR2T33	OR4X1	OR5AK2
NUDT6	NXT1	OLFM4	OR10J1	OR1L4	OR2T4	OR4X2	OR5AL1
NUDT7	NXT2	OLFML1	OR10J3	OR1L6	OR2T6	OR51A2_OR51A4	OR5AN1
NUDT8	NYAP1	OLFML2A	OR10J4	OR1L8	OR2T8	OR51A7	OR5AP2
NUDT9	NYAP2	OLFML2B	OR10J5	OR1M1	OR2V1	OR51B2	OR5AR1
NUF2	NYNRIN	OLFML3	OR10K1	OR1N1	OR2V2	OR51B4	OR5AS1
NUFIP1	NYX	OLIG1	OR10K2	OR1N2	OR2W1	OR51B5	OR5AU1
NUFIP2	OAF	OLIG2	OR10P1	OR1Q1	OR2W3	OR51B6	OR5B12
NUGGC	OARD1	OLIG3	OR10Q1	OR1S1	OR2W5	OR51D1	OR5B17
NUMA1	OAS1	OLR1	OR10R2	OR1S2	OR2Y1	OR51E1	OR5B2
NUMB	OAS2	OMA1	OR10S1	OR2A1_OR2A42	OR2Z1	OR51E2	OR5B21
NUMBL	OAS3	OMD	OR10T2	OR2A12	OR3A1	OR51F1	OR5B3
NUP107	OASL	OMG	OR10V1	OR2A14	OR3A2	OR51F2	OR5C1
NUP133	OAT	OMP	OR10W1	OR2A2	OR3A3	OR51G1	OR5D13
NUP153	OAZ1	ONECUT1	OR10X1	OR2A25	OR4A15	OR51G2	OR5D14
NUP155	OAZ2	ONECUT2	OR10Z1	OR2A4_OR2A7	OR4A16	OR51H1	OR5D16
NUP160	OAZ3	ONECUT3	OR11A1	OR2A5	OR4A47	OR51I1	OR5D18
NUP188	OB11	OCEP	OR11G2	OR2AE1	OR4A5	OR51I2	OR5F1
NUP205	OBP2A_OBP2B	OOSP2	OR11H_Family	OR2AG1	OR4B1	OR51J1	OR5H1_OR5H15
NUP210	OBSCN	OOSP4B	OR11H4	OR2AG2	OR4C11	OR51L1	OR5H14
NUP210L	OBSL1	OPA1	OR11H6	OR2AJ1	OR4C12	OR51M1	OR5H2
NUP214	OC90	OPA3	OR11H7	OR2AK2	OR4C13	OR51Q1	OR5H6
NUP35	OCA2	OPALIN	OR11L1	OR2AP1	OR4C15	OR51S1	OR5I1
NUP37	OCEL1	OPCML	OR12D1	OR2AT4	OR4C16	OR51T1	OR5J2
NUP42	OCIAD1	OPHN1	OR12D2	OR2B11	OR4C3	OR51V1	OR5K1
NUP43	OCIAD2	OPLAH	OR12D3	OR2B2	OR4C45	OR52A1	OR5K2
NUP50	OCLN	OPN1_Family	OR13A1	OR2B3	OR4C46	OR52A5	OR5K3
NUP54	OCM_OCM2	OPN1LW	OR13C2_OR13C5	OR2B6	OR4C5	OR52B2	OR5K4
NUP58	OCRL	OPN1SW	OR13C3	OR2C1	OR4C6	OR52B4	OR5L1
NUP62	OCSTAMP	OPN3	OR13C4	OR2C3	OR4D1	OR52B6	OR5L2
NUP62CL	ODAM	OPN4	OR13C8	OR2D2	OR4D10	OR52D1	OR5M1
NUP85	ODAPH	OPN5	OR13C9	OR2D3	OR4D11	OR52E1	OR5M10
NUP88	ODC1	OPRD1	OR13D1	OR2F1	OR4D2	OR52E2	OR5M11
NUP93	ODF1	OPRK1	OR13F1	OR2F2	OR4D5	OR52E4	OR5M3
NUP98	ODF2	OPRL1	OR13G1	OR2G2	OR4D6	OR52E5	OR5M8
NUPR1	ODF2L	OPRM1	OR13H1	OR2G3	OR4D9	OR52E6	OR5M9
NUPR2	ODF3	OPRPN	OR13J1	OR2G6	OR4E1	OR52E8	OR5P2
NUS1	ODF3B	OPTC	OR14A16	OR2H1	OR4E2	OR52H1	OR5P3
NUSAP1	ODF3L1	OPTN	OR14A2	OR2H1_OR2H2	OR4F_Family	OR52I1	OR5R1
NUTF2	ODF3L2	OR10A2	OR14C36	OR2J1	OR4F15	OR52I2	OR5T1
NUTM1	ODF4	OR10A3	OR14I1	OR2J2	OR4F17	OR52J3	OR5T2
NUTM2_Family	ODR4	OR10A4	OR14J1	OR2J3	OR4F17_Family	OR52K1	OR5T3
NUTM2F	OFCC1	OR10A5	OR14K1	OR2K2	OR4F5	OR52K2	OR5V1
NUTM2F_NUTM2G	OFD1	OR10A6	OR1A1	OR2L13	OR4F6	OR52L1	OR5W2
NVL	OGA	OR10A7	OR1A2	OR2L2	OR4K1	OR52M1	OR6A2
NWD1	OGDH	OR10AC1	OR1B1	OR2L3_OR2L8	OR4K13	OR52N1	OR6B1
NWD2	OGDHL	OR10AD1	OR1C1	OR2L5	OR4K14	OR52N2	OR6B2
NXF1	OGFOD1	OR10AG1	OR1D2	OR2M2	OR4K15	OR52N4	OR6B3
NXF2_NXF2B	OGFOD2	OR10C1	OR1D4_OR1D5	OR2M3	OR4K17	OR52N5	OR6C1
NXF3	OGFOD3	OR10D3	OR1E1	OR2M4	OR4K2	OR52R1	OR6C2
NXF5	OGFR	OR10G2	OR1E1_OR1E2	OR2M5	OR4K3	OR52W1	OR6C3
NXN	OGFRL1	OR10G3	OR1E3	OR2M7	OR4K5	OR52Z1	OR6C4
NXNL1	OGG1	OR10G4	OR1F1	OR2S2	OR4L1	OR56A1	OR6C6

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OR6C65	OR9I1	OTUD1	PABPC1L2A	PANK3	PAX1	PCDHB10	PCNX4
OR6C68	OR9K2	OTUD3	PABPC1L2B	PANK4	PAX2	PCDHB11	PCOLCE
OR6C70	OR9Q1	OTUD4	PABPC3	PANO1	PAX3	PCDHB12	PCOLCE2
OR6C74	OR9Q2	OTUD5	PABPC4	PANX1	PAX4	PCDHB13	PCOTH
OR6C75	ORAI1	OTUD6A	PABPC4L	PANX2	PAX5	PCDHB14	PCP2
OR6C76	ORAI2	OTUD6B	PABPC5	PANX3	PAX6	PCDHB15	PCP4
OR6F1	ORAI3	OTUD7A	PABPN1	PAOX	PAX7	PCDHB16	PCP4L1
OR6J1	ORC1	OTUD7B	PABPN1L	PAPLN	PAX8	PCDHB2	PCSK1
OR6K2	ORC2	OTULIN	PACC1	PAPOLA	PAX9	PCDHB3	PCSK1N
OR6K3	ORC3	OTULINL	PACRG	PAPOLB	PAXBP1	PCDHB4	PCSK2
OR6K6	ORC4	OTX1	PACRGL	PAPOLG	PAXIP1	PCDHB5	PCSK4
OR6M1	ORC5	OTX2	PACCS1	PAPPA	PAXX	PCDHB6	PCSK5
OR6N1	ORC6	OVCH1	PACCS2	PAPPA2	PBDC1	PCDHB7	PCSK6
OR6N2	ORM1	OVCH2	PACCSIN1	PAPSS1	PBK	PCDHB8	PCSK7
OR6P1	ORM2	OVGP1	PACCSIN2	PAPSS2	PBLD	PCDHB9	PCSK9
OR6Q1	ORMDL1	OVOL1	PACCSIN3	PAQR3	PBOV1	PCDHGA1	PCTP
OR6S1	ORMDL2	OVOL2	PADI1	PAQR4	PBRM1	PCDHGA10	PCYOX1
OR6T1	ORMDL3	OVOL3	PADI2	PAQR5	PBX1	PCDHGA11	PCYOX1L
OR6V1	OS9	OXATL	PADI3	PAQR6	PBX2	PCDHGA12	PCYT1A
OR6X1	OSBP	OXCT1	PADI4	PAQR7	PBX3	PCDHGA2	PCYT1B
OR6Y1	OSBP2	OXCT2	PADI6	PAQR8	PBX4	PCDHGA3	PCYT2
OR7A10	OSBPL10	OXER1	PAEP	PAQR9	PBXIP1	PCDHGA4	PDAP1
OR7A17	OSBPL11	OXGR1	PAF1	PARD3	PC	PCDHGA5	PDC
OR7A5	OSBPL1A	OXLD1	PAFAH1B1	PARD3B	PCARE	PCDHGA6	PDCD1
OR7C1	OSBPL2	OXNAD1	PAFAH1B2	PARD6A	PCBD1	PCDHGA7	PDCD10
OR7C2	OSBPL3	OXR1	PAFAH1B3	PARD6B	PCBD2	PCDHGA8	PDCD11
OR7D2	OSBPL5	OXSM	PAFAH2	PARD6G	PCBP1	PCDHGA9	PDCD1LG2
OR7D4	OSBPL6	OXSR1	PAG1	PARG	PCBP2	PCDHGB1	PDCD2
OR7E24	OSBPL7	OXT	PAGE1	PARK7	PCBP3	PCDHGB2	PDCD2L
OR7G1	OSBPL8	OXTR	PAGE2_PAGE2B	PARL	PCBP4	PCDHGB3	PDCD4
OR7G2	OSBPL9	P2RX1	PAGE2B	PARM1	PCCA	PCDHGB4	PDCD5
OR7G3	OSCAR	P2RX2	PAGE3	PARN	PCCB	PCDHGB5	PDCD6
OR8A1	OSCP1	P2RX3	PAGE4	PARP1	PCDH1	PCDHGB6	PDCD6IP
OR8B12	OSER1	P2RX4	PAGE5	PARP10	PCDH10	PCDHGB7	PDCD7
OR8B2	OSGEP	P2RX5	PAGR1	PARP11	PCDH11X	PCDHGC3	PDCL
OR8B4	OSGEP1	P2RX6	PAH	PARP12	PCDH11Y	PCDHGC4	PDCL2
OR8B8	OSGIN1	P2RX7	PAICS	PARP14	PCDH12	PCDHGC5	PDCL3
OR8D1	OSGIN2	P2RY1	PAIP1	PARP15	PCDH15	PCED1A	PDE10A
OR8D2	OSM	P2RY10	PAIP2	PARP16	PCDH17	PCED1B	PDE11A
OR8D4	OSMR	P2RY11	PAIP2B	PARP2	PCDH18	PCF11	PDE12
OR8G1	OSR1	P2RY12	PAK1	PARP3	PCDH19	PCGF1	PDE1A
OR8G2P	OSR2	P2RY13	PAK1IP1	PARP4	PCDH20	PCGF2	PDE1B
OR8G5	OST4	P2RY14	PAK2	PARP6	PCDH7	PCGF3	PDE1C
OR8H1	OSTC	P2RY2	PAK3	PARP8	PCDH8	PCGF5	PDE2A
OR8H2	OSTF1	P2RY4	PAK4	PARP9	PCDH9	PCGF6	PDE3A
OR8H3	OSTM1	P2RY6	PAK5	PARPBP	PCDHA1	PCID2	PDE3B
OR8I2	OSTN	P2RY8	PAK6	PARS2	PCDHA10	PCIF1	PDE4A
OR8J1_OR8J3	OTC	P3H1	PALB2	PARVA	PCDHA11	PCK1	PDE4B
OR8J3	OTOA	P3H2	PALD1	PARVB	PCDHA12	PCK2	PDE4C
OR8K1	OTOF	P3H3	PALLD	PARVG	PCDHA13	PCLAF	PDE4D
OR8K3	OTOG	P3H4	PALM	PASD1	PCDHA2	PCL0	PDE4DIP
OR8K5	OTOGL	P3R3URF	PALM2AKAP2	PASK	PCDHA3	PCM1	PDE5A
OR8S1	OTOL1	P4HA1	PALM3	PATE1	PCDHA4	PCMT1	PDE6A
OR8U1	OTOP1	P4HA2	PALMD	PATE2	PCDHA5	PCMTD1	PDE6B
OR8U1_OR8U8	OTOP2	P4HA3	PAM	PATE3	PCDHA6	PCMTD2	PDE6C
OR8U9	OTOP3	P4HB	PAM16	PATE4	PCDHA7	PCNA	PDE6D
OR9A2	OTOR	P4HTM	PAMR1	PATJ	PCDHA8	PCNP	PDE6G
OR9A4	OTOS	PA2G4	PAN2	PATL1	PCDHA9	PCNT	PDE6H
OR9G1	OTP	PAAF1	PAN3	PATL2	PCDHAC1	PCNX1	PDE7A
OR9G4	OTUB1	PABPC1	PANK1	PATZ1	PCDHAC2	PCNX2	PDE7B
OR9G9	OTUB2	PABPC1L	PANK2	PAWR	PCDHB1	PCNX3	PDE8A

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PDE8B	PEBP1	PFN4	PHF21A	PIGB	PIP5KL1	PLA2G4A	PLEKHA6
PDE9A	PEBP4	PGA3	PHF21B	PIGBOS1	PIPOX	PLA2G4B	PLEKHA7
PDF	PECAM1	PGAM1	PHF23	PIGC	PIR	PLA2G4C	PLEKHA8
PDGFA	PECR	PGAM2	PHF24	PIGF	PIRT	PLA2G4D	PLEKHB1
PDGFB	PEDS1	PGAM5	PHF3	PIGG	PISD	PLA2G4E	PLEKHB2
PDGFC	PEDS1-UBE2V1	PGAP1	PHF5A	PIGH	PITHD1	PLA2G4F	PLEKHD1
PDGFD	PEF1	PGAP2	PHF6	PIGK	PITPNA	PLA2G5	PLEKHF1
PDGFRA	PEG10	PGAP3	PHF7	PIGL	PITPNB	PLA2G6	PLEKHF2
PDGFRB	PEG3	PGAP6	PHF8	PIGM	PITPNC1	PLA2G7	PLEKHG1
PDGFRL	PELI1	PGBD1	PHGDH	PIGN	PITPNM1	PLA2R1	PLEKHG2
PDHA1	PELI2	PGBD2	PHGR1	PIGO	PITPNM2	PLAA	PLEKHG3
PDHA2	PELI3	PGBD3	PHIP	PIGP	PITPNM3	PLAAT1	PLEKHG4
PDHB	PELO	PGBD4	PHKA1	PIGQ	PITRM1	PLAAT2	PLEKHG4B
PDHX	PELP1	PGBD5	PHKA2	PIGR	PITX1	PLAAT3	PLEKHG5
PDIA2	PEMT	PGC	PHKB	PIGS	PITX2	PLAAT4	PLEKHG6
PDIA3	PENK	PGD	PHKG1	PIGT	PITX3	PLAAT5	PLEKHH1
PDIA4	PEPD	PGF	PHKG2	PIGU	PIWIL1	PLAC1	PLEKHH2
PDIA5	PER1	PGGHG	PHLDA1	PIGV	PIWIL2	PLAC8	PLEKHH3
PDIA6	PER2	PGGT1B	PHLDA2	PIGW	PIWIL3	PLAC8L1	PLEKHJ1
PDIK1L	PER3	PGK1	PHLDA3	PIGX	PIWIL4	PLAC9	PLEKHM1
PDILT	PERCC1	PGK2	PHLDB1	PIGZ	PJA1	PLAG1	PLEKHM2
PDK1	PERM1	PGLS	PHLDB2	PIH1D1	PJA2	PLAGL1	PLEKHM3
PDK2	PERP	PGLYRP1	PHLDB3	PIH1D2	PJVK	PLAGL2	PLEKHN1
PDK3	PES1	PGLYRP2	PHLPP1	PIH1D3	PKD1	PLAT	PLEKH01
PDK4	PET100	PGLYRP3	PHLPP2	PIK3AP1	PKD1L1	PLAU	PLEKH02
PDLIM1	PET117	PGLYRP4	PHOSPH01	PIK3C2A	PKD1L2	PLAUR	PLEKHS1
PDLIM2	PEX1	PGM1	PHOSPH02	PIK3C2B	PKD1L3	PLB1	PLET1
PDLIM3	PEX10	PGM2	PHOSPH02-KLHL23	PIK3C2G	PKD2	PLBD1	PLG
PDLIM4	PEX11A	PGM2L1	PHOX2A	PIK3C3	PKD2L1	PLBD2	PLG_PLGLB1_PLGLB2
PDLIM5	PEX11B	PGM3	PHOX2B	PIK3CA	PKD2L2	PLCB1	PLGRKT
PDLIM7	PEX11G	PGM5	PHPT1	PIK3CB	PKDCC	PLCB2	PLIN1
PDP1	PEX12	PGP	PHRF1	PIK3CD	PKDREJ	PLCB3	PLIN2
PDP2	PEX13	PGPEP1	PHTF1	PIK3CG	PKHD1	PLCB4	PLIN3
PDPK1	PEX14	PGPEP1L	PHTF2	PIK3IP1	PKHD1L1	PLCD1	PLIN4
PDPN	PEX16	PGR	PHYH	PIK3R1	PKIA	PLCD3	PLIN5
P DPR	PEX19	PGRMC1	PHYHD1	PIK3R2	PKIB	PLCD4	PLK1
PDRG1	PEX2	PGRMC2	PHYHIP	PIK3R3	PKIG	PLCE1	PLK2
PDS5A	PEX26	PGS1	PHYHIPL	PIK3R4	PKLR	PLCG1	PLK3
PDS5B	PEX3	PHACTR1	PHYKPL	PIK3R5	PKM	PLCG2	PLK4
PDSS1	PEX5	PHACTR2	PI15	PIK3R6	PKMYT1	PLCH1	PLK5
PDSS2	PEX5L	PHACTR3	PI16	PIKFYVE	PKN1	PLCH2	PLLP
PDX1	PEX6	PHACTR4	PI3	PILRA	PKN2	PLCL1	PLN
PDXDC1	PEX7	PHAX	PI4K2A	PILRB	PKN3	PLCL2	PLOD1
PDXK	PF4	PHB	PI4K2B	PIM1	PKNOX1	PLCXD1	PLOD2
PDXP	PF4V1	PHB2	PI4KA	PIM2	PKNOX2	PLCXD2	PLOD3
P DYN	PFAS	PHC1	PI4KB	PIM3	PKP1	PLCXD3	PLP1
PDZD11	PFDN1	PHC2	PIANP	PIMREG	PKP2	PLCZ1	PLP2
PDZD2	PFDN2	PHC3	PIAS1	PIN1	PKP3	PLD1	PLPBP
PDZD3	PFDN4	PHETA1	PIAS2	PIN4	PKP4	PLD2	PLPP1
PDZD4	PFDN5	PHETA2	PIAS3	PINK1	PLA1A	PLD3	PLPP2
PDZD7	PFDN6	PHEX	PIAS4	PINLYP	PLA2G10	PLD4	PLPP3
PDZD8	PFKFB1	PHF1	PIBF1	PINX1	PLA2G12A	PLD5	PLPP4
PDZD9	PFKFB2	PHF10	PICALM	PIP	PLA2G12B	PLD6	PLPP5
PDZK1	PFKFB3	PHF11	PICK1	PIP4K2A	PLA2G15	PLEC	PLPP6
PDZK1IP1	PFKFB4	PHF12	PID1	PIP4K2B	PLA2G1B	PLEK	PLPP7
PDZRN3	PFLK	PHF13	PIDD1	PIP4K2C	PLA2G2A	PLEK2	PLPPR1
PDZRN4	PFKM	PHF14	PIEZ01	PIP4P1	PLA2G2C	PLEKHA1	PLPPR2
PEA15	PFKP	PHF19	PIEZ02	PIP4P2	PLA2G2D	PLEKHA2	PLPPR3
PEAK1	PFN1	PHF2	PIF1	PIP5K1A	PLA2G2E	PLEKHA3	PLPPR4
PEAK3	PFN2	PHF20	PIFO	PIP5K1B	PLA2G2F	PLEKHA4	PLPPR5
PEAR1	PFN3	PHF20L1	PIGA	PIP5K1C	PLA2G3	PLEKHA5	PLRG1

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PLS1	PNP	POLR2F	POU3F2	PPMIK	PPP2R3C	PRDM12	PRKCG
PLS3	PNPLA1	POLR2G	POU3F3	PPMIL	PPP2R5A	PRDM13	PRKCH
PLSCR1	PNPLA2	POLR2H	POU3F4	PPM1M	PPP2R5B	PRDM14	PRKCI
PLSCR2	PNPLA3	POLR2I	POU4F1	PPM1N	PPP2R5C	PRDM15	PRKCQ
PLSCR3	PNPLA4	POLR2J	POU4F2	PPME1	PPP2R5D	PRDM16	PRKCSH
PLSCR4	PNPLA5	POLR2K	POU4F3	PPOX	PPP2R5E	PRDM2	PRKCZ
PLSCR5	PNPLA6	POLR2L	POU5F1	PPP1CA	PPP3CA	PRDM4	PRKD1
PLTP	PNPLA7	POLR2M	POU5F1_POU5F1B	PPP1CB	PPP3CB	PRDM5	PRKD2
PLVAP	PNPLA8	POLR3A	POU5F2	PPP1CC	PPP3CC	PRDM6	PRKD3
PLXDC1	PNP0	POLR3B	POU6F1	PPP1R10	PPP3R1	PRDM7	PRKDC
PLXDC2	PNPT1	POLR3C	POU6F2	PPP1R11	PPP3R2	PRDM8	PRKG1
PLXNA1	PNRC1	POLR3D	PP2D1	PPP1R12A	PPP4C	PRDM9	PRKG2
PLXNA2	PNRC2	POLR3E	PPA1	PPP1R12B	PPP4R1	PRDX1	PRKN
PLXNA3	POC1A	POLR3F	PPA2	PPP1R12C	PPP4R2	PRDX2	PRKRA
PLXNA4	POC1B	POLR3G	PPAN_PPAN-P2RY11	PPP1R13B	PPP4R3A	PRDX3	PRKRIP1
PLXNB1	POC1B-GALNT4	POLR3GL	PPAN-P2RY11	PPP1R13L	PPP4R3B	PRDX4	PRKX
PLXNB2	POC5	POLR3H	PPARA	PPP1R14A	PPP4R3C	PRDX5	PRL
PLXNB3	PODN	POLR3K	PPARD	PPP1R14B	PPP4R4	PRDX6	PRLH
PLXNC1	PODNL1	POLRMT	PPARG	PPP1R14C	PPP5C	PREB	PRLHR
PLXND1	PODXL	POM121	PPARGC1A	PPP1R14D	PPP5D1	PRELID1	PRLR
PM20D1	PODXL2	POM121C	PPARGC1B	PPP1R15A	PPP6C	PRELID2	PRM1
PM20D2	POF1B	POM121L12	PPAT	PPP1R15B	PPP6R1	PRELID3A	PRM2
PMAIP1	POFUT1	POM121L2	PPBP	PPP1R16A	PPP6R2	PRELID3B	PRM3
PMCH	POFUT2	POMC	PPCDC	PPP1R16B	PPP6R3	PRELP	PRMT1
PMEL	POGK	POMGNT1	PPCS	PPP1R17	PPRC1	PREP	PRMT2
PMEP1A1	POGLUT1	POMGNT2	PPDPF	PPP1R18	PPT1	PREPL	PRMT3
PMF1	POGLUT2	POMK	PPDPFL	PPP1R1A	PPT2	PREX1	PRMT5
PMF1-BGLAP	POGLUT3	POMP	PPEF1	PPP1R1B	PPTC7	PREX2	PRMT6
PMFBP1	POGZ	POMT1	PPEF2	PPP1R1C	PPWD1	PRF1	PRMT7
PML	POLA1	POMT2	PPFIA1	PPP1R2	PPY	PRG2	PRMT8
PMM1	POLA2	POMZP3	PPFIA2	PPP1R21	QQBP1	PRG3	PRMT9
PMM2	POLB	PON1	PPFIA3	PPP1R26	PRACT1	PRG4	PRND
PMP2	POLD1	PON2	PPFIA4	PPP1R27	PRAC2	PRH1	PRNP
PMP22	POLD2	PON3	PPFIBP1	PPP1R2B	PRADC1	PRH1-TAS2R14	PROB1
PMPCA	POLD3	POP1	PPFIBP2	PPP1R2C	PRAF2	PRH2	PROC
PMPCB	POLD4	POP4	PPHLN1	PPP1R32	PRAG1	PRICKLE1	PROCA1
PMS1	POLDIP2	POP5	PPIA	PPP1R35	PRAM1	PRICKLE2	PROCR
PMS2	POLDIP3	POP7	PPIA_Family	PPP1R36	PRAME	PRICKLE3	PRODH_Family
PMVK	POLE	POPDC2	PPIB	PPP1R37	PRAMEF_Family	PRICKLE4	PRODH2
PNCK	POLE2	POPDC3	PPIC	PPP1R3A	PRAMEF_Family_2	PRIM1	PROK1
PNISR	POLE3	POR	PPID	PPP1R3B	PRAMEF1	PRIM2	PROK2
PNKD	POLE4	PORCN	PPIE	PPP1R3C	PRAMEF10_PRAMEF33	PRIMA1	PROKR1
PNKP	POLG	POSTN	PPIF	PPP1R3D	PRAMEF11	PRIMPOL	PROKR2
PNLDC1	POLG2	POT1	PPIG	PPP1R3E	PRAMEF12	PRKAA1	PROM1
PNLIP	POLH	POTE_Family	PPIH	PPP1R3F	PRAMEF17	PRKAA2	PROM2
PNLIPRP1	POLI	POTE_Family_T2	PPIL1	PPP1R3G	PRAMEF18_PRAMEF19	PRKAB1	PROP1
PNLIPRP2	POLK	POTE_Family_T3	PPIL2	PPP1R42	PRAMEF19	PRKAB2	PRORP
PNLIPRP3	POLL	POTEA	PPIL3	PPP1R7	PRAMEF2	PRKACA	PRORY
PNMA1	POLM	POTEB	PPIL4	PPP1R8	PRAMEF20	PRKACB	PROS1
PNMA2	POLN	POTEB3_POTED	PPIL6	PPP1R9A	PRAMEF7_PRAMEF8	PRKACG	PROSER1
PNMA3	POLQ	POTEE	PPIP5K1	PPP1R9B	PRAP1	PRKAG1	PROSER2
PNMA5	POLR1A	POTEF	PPIP5K2	PPP2CA	PRB1_PRB2	PRKAG2	PROSER3
PNMA6A	POLR1B	POTEF_POTEI	PPL	PPP2CB	PRB3	PRKAG3	PROX1
PNMA6E	POLR1C	POTEG	PPM1A	PPP2R1A	PRB4	PRKAR1A	PROX2
PNMA6F	POLR1D	POTEJ	PPM1B	PPP2R1B	PRC1	PRKAR1B	PROZ
PNMA8A	POLR1E	POU1F1	PPM1D	PPP2R2A	PRCC	PRKAR2A	PRPF18
PNMA8B	POLR2A	POU2AF1	PPM1E	PPP2R2B	PRCD	PRKAR2B	PRPF19
PNMT	POLR2B	POU2F1	PPM1F	PPP2R2C	PRCP	PRKCA	PRPF3
PNN	POLR2C	POU2F2	PPM1G	PPP2R2D	PRDM1	PRKCB	PRPF31
PNO1	POLR2D	POU2F3	PPM1H	PPP2R3A	PRDM10	PRKCD	PRPF38A
PNOC	POLR2E	POU3F1	PPM1J	PPP2R3B	PRDM11	PRKCE	PRPF38B

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PRPF39	PRRX2	PSMA3	PTBP3	PTPN20	PWWP2B	RAB12	RAB7B
PRPF4	PRSS1	PSMA4	PTCD1	PTPN21	PWWP3A	RAB13	RAB8A
PRPF40A	PRSS12	PSMA5	PTCD2	PTPN22	PWWP3B	RAB14	RAB8B
PRPF40B	PRSS16	PSMA6	PTCD3	PTPN23	PXDC1	RAB15	RAB9A
PRPF48	PRSS2	PSMA7	PTCH1	PTPN3	PXDN	RAB17	RAB9B
PRPF6	PRSS21	PSMA8	PTCH2	PTPN4	PXDNL	RAB18	RABAC1
PRPF8	PRSS22	PSMB1	PTCHD1	PTPN5	PXK	RAB19	RABEP1
PRPH	PRSS23	PSMB10	PTCHD3	PTPN6	PXMP2	RAB1A	RABEP2
PRPH2	PRSS27	PSMB11	PTCHD4	PTPN7	PXMP4	RAB1B	RABEPK
PRPS1	PRSS3	PSMB2	PTCRA	PTPN9	PXN	RAB20	RABGAP1
PRPSTL1	PRSS33	PSMB3	PTDSS1	PTPRA	PXT1	RAB21	RABGAP1L
PRPS2	PRSS35	PSMB4	PTDSS2	PTPRB	PXYLP1	RAB22A	RABGEF1
PRPSAP1	PRSS36	PSMB5	PTEN	PTPRC	PYCARD	RAB23	RABGGTA
PRPSAP2	PRSS37	PSMB6	PTER	PTPRCAP	PYCR1	RAB24	RABGGTB
PRR11	PRSS38	PSMB7	PTF1A	PTPRD	PYCR2	RAB25	RABIF
PRR12	PRSS41	PSMB8	PTGDR	PTPRE	PYCR3	RAB26	RABL2A_RABL2B
PRR13	PRSS47	PSMB9	PTGDR2	PTPRF	PYDC1	RAB27A	RABL3
PRR14	PRSS48	PSMC1	PTGDS	PTPRG	PYDC2	RAB27B	RABL6
PRR14L	PRSS50	PSMC2	PTGER1	PTPRH	PYDC5	RAB28	RAC1
PRR15	PRSS53	PSMC3	PTGER2	PTPRJ	PYGB	RAB29	RAC2
PRR15L	PRSS54	PSMC3IP	PTGER3	PTPRK	PYGL	RAB2A	RAC3
PRR16	PRSS55	PSMC4	PTGER4	PTPRM	PYGM	RAB2B	RACGAP1
PRR18	PRSS56	PSMC5	PTGES	PTPRN	PYG01	RAB30	RACK1
PRR19	PRSS57	PSMC6	PTGES2	PTPRN2	PYG02	RAB31	RAD1
PRR20_Family	PRSS58	PSMD1	PTGES3	PTPRO	PYHIN1	RAB32	RAD17
PRR20A	PRSS8	PSMD10	PTGES3L	PTPRQ	PYM1	RAB33A	RAD18
PRR20G	PRTFDC1	PSMD11	PTGES3L-AARSD1	PTPRR	PYROXD1	RAB33B	RAD21
PRR22	PRTG	PSMD12	PTGFR	PTPRS	PYROXD2	RAB34	RAD21L1
PRR23A	PRTN3	PSMD13	PTGFRN	PTPRT	PYURF	RAB35	RAD23A
PRR23B	PRUNE1	PSMD14	PTGIS	PTPRU	PYY	RAB36	RAD23B
PRR23C	PRUNE2	PSMD2	PTGIS	PTPRZ1	PZP	RAB37	RAD50
PRR23D1	PRX	PSMD3	PTGR1	PTRH1	QARS1	RAB38	RAD51
PRR23D1_D2	PRXL2A	PSMD4	PTGR2	PTRH2	QDPR	RAB39A	RAD51AP1
PRR25	PRXL2B	PSMD5	PTGS1	PTRHD1	QKI	RAB39B	RAD51AP2
PRR27	PRXL2C	PSMD6	PTGS2	PTS	QPCT	RAB3A	RAD51B
PRR29	PRY	PSMD7	PTH	PTTG1	QPCTL	RAB3B	RAD51C
PRR3	PRY_PRY2	PSMD8	PTH1R	PTTG1IP	QPRT	RAB3C	RAD51D
PRR30	PSAP	PSMD9	PTH2	PTTG2	QRFP	RAB3D	RAD52
PRR32	PSAPL1	PSME1	PTH2R	PTX3	QRFP	RAB3GAP1	RAD54B
PRR35	PSAT1	PSME2	PTHLH	PTX4	QRICH1	RAB3GAP2	RAD54L
PRR36	PSCA	PSME3	PTK2	PUDP	QRICH2	RAB31L	RAD54L2
PRR4	PSD	PSME3IP1	PTK2B	PUF60	QRS1	RAB3IP	RAD9A
PRR5	PSD2	PSME4	PTK6	PUM1	QSER1	RAB40A	RAD9B
PRR5-ARHGAP8	PSD3	PSMF1	PTK7	PUM2	QSOX1	RAB40AL	RADIL
PRR5L	PSD4	PSMG1	PTMA	PUM3	QSOX2	RAB40B	RADX
PRR7	PSEN1	PSMG2	PTMS	PURA	QTRT1	RAB40C	RAE1
PRR9	PSEN2	PSMG3	PTN	PURB	QTRT2	RAB41	RAET1E
PRRC1	PSENEN	PSMG4	PTOV1	PURG	R3HCC1	RAB42	RAET1G
PRRC2A	PSG1_PSG8	PSORS1C1	PTP4A1	PUS1	R3HCC1L	RAB43	RAET1L
PRRC2B	PSG2	PSORS1C2	PTP4A2	PUS10	R3HDM1	RAB44	RAF1
PRRC2C	PSG3	PSPC1	PTP4A3	PUS3	R3HDM2	RAB4A	RAG1
PRRG1	PSG4	PSPH	PTPA	PUS7	R3HDM4	RAB4B	RAG2
PRRG2	PSG5	PSPN	PTPDC1	PUS7L	R3HDM1L	RAB5A	RAI1
PRRG3	PSG6	PSRC1	PTPMT1	PUSL1	RAB10	RAB5B	RAI14
PRRG4	PSG7	PSTK	PTPN1	PVALB	RAB11A	RAB5C	RAI2
PRRT1	PSG9	PSTPIP1	PTPN11	PVALEF	RAB11B	RAB5IF	RALA
PRRT1B	PSIP1	PSTPIP2	PTPN12	PVR	RAB11FIP1	RAB6A	RALB
PRRT2	PSKH1	PTAFR	PTPN13	PVRIG	RAB11FIP2	RAB6B	RALBP1
PRRT3	PSKH2	PTARI	PTPN14	PWP1	RAB11FIP3	RAB6C	RALGAPA1
PRRT4	PSMA1	PTBP1	PTPN18	PWP2_LOC102724159	RAB11FIP4	RAB6D	RALGAPA2
PRRX1	PSMA2	PTBP2	PTPN2	PWWP2A	RAB11FIP5	RAB7A	RALGAPB

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RALGDS	RASGRP2	RBM28	RCS01	RETSAT	RGS18	RIDA	RNASE6
RALGPS1	RASGRP3	RBM3	RCVRN	REV1	RGS19	RIF1	RNASE7
RALGPS2	RASGRP4	RBM33	RD3	REV3L	RGS2	RIIAD1	RNASE8
RALY	RASIP1	RBM34	RD3L	REX1BD	RGS20	RILP	RNASE9
RALYL	RASL10A	RBM38	RDH10	REX01	RGS21	RILPL1	RNASEH1
RAMAC	RASL10B	RBM39	RDH11	REX02	RGS22	RILPL2	RNASEH2A
RAMP1	RASL11A	RBM4	RDH12	REX04	RGS3	RIMBP2	RNASEH2B
RAMP2	RASL11B	RBM41	RDH13	REX05	RGS4	RIMBP3_Family	RNASEH2C
RAMP3	RASLI2	RBM42	RDH14	RFC1	RGS5	RIMKLA	RNASEK
RAN	RASSF1	RBM43	RDH16	RFC2	RGS6	RIMKLB	RNASEL
RANBP1	RASSF10	RBM44	RDH5	RFC3	RGS7	RIMS1	RNASET2
RANBP10	RASSF2	RBM45	RDH8	RFC4	RGS7BP	RIMS2	RND1
RANBP17	RASSF3	RBM46	RDM1	RFC5	RGS8	RIMS3	RND2
RANBP2	RASSF4	RBM47	RDX	RFESD	RGS9	RIMS4	RND3
RANBP3	RASSF5	RBM48	REC114	RFFL	RGS9BP	RIN1	RNF10
RANBP3L	RASSF6	RBM4B	REC8	RFK_SERPINE1	RGSL1	RIN2	RNF103
RANBP6	RASSF7	RBM5	RECK	RFLNA_ZNF664-RFLNA	RHAG	RIN3	RNF103-CHMP3
RANBP9	RASSF8	RBM6	RECQL	RFLNB	RHBDD1	RING1	RNF11
RANGAP1	RASSF9	RBM7	RECQL4	RFNG	RHBDD2	RINL	RNF111
RANGRF	RAVER1	RBM8A	RECQL5	RFPL_Family	RHBDD3	RINT1	RNF112
RAP1A	RAVER2	RBM81	REELD1	RFPL1	RHBDF1	RIOK1	RNF113A
RAP1B	RAX	RBMS2	REEP1	RFPL2	RHBDF2	RIOK2	RNF113B
RAP1GAP	RAX2	RBMS3	REEP2	RFPL3	RHBDL1	RIOK3	RNF114
RAP1GAP2	RB1	RBMX	REEP3	RFPL4A_RFPL4AL1	RHBDL2	RIOX1	RNF115
RAP1GDS1	RB1CC1	RBMX2	REEP4	RFPL4AL1	RHBDL3	RIOX2	RNF121
RAP2A	RBAK	RBMXL1	REEP5	RFPL4B	RHBG	RIPK1	RNF122
RAP2B	RBAK-RBAKDN	RBMXL2	REEP6	RFT1	RHCE	RIPK2	RNF123
RAP2C	RBBP4	RBMXL3	REG1A	RFTN1	RHCG	RIPK3	RNF125
RAPGEF1	RBBP5	RBMY1_Family	REG1B	RFTN2	RHD	RIPK4	RNF126
RAPGEF2	RBBP6	RBP1	REG3A	RFWD3	RHEB	RIPOR1	RNF128
RAPGEF3	RBBP7	RBP2	REG3G	RFX1	RHEBL1	RIPOR2	RNF13
RAPGEF4	RBBP8	RBP3	REG4	RFX2	RHEX	RIPOR3	RNF130
RAPGEF5	RBBP8NL	RBP4	REL	RFX3	RHNO1	RIPPLY1	RNF133
RAPGEF6	RBBP9	RBP5	RELA	RFX4	RHO	RIPPLY2	RNF135
RAPGEFL1	RBCK1	RBP7	RELB	RFX5	RHOA	RIPPLY3	RNF138
RAPH1	RBFA	RBPJ	RELC	RFX6	RHOB	RIT1	RNF139
RAPSN	RBFOX1	RBPJL	RELL1	RFX7	RHOBTB1	RIT2	RNF14
RARA	RBFOX2	RBPMS	RELL2	RFX8	RHOBTB2	RITAI	RNF141
RARB	RBFOX3	RBPMS2	RELN	RFXANK	RHOBTB3	RLBP1	RNF144A
RARG	RBIS	RBSN	RELT	RFXAP	RHOC	RLF	RNF144B
RARRES1	RBKS	RBX1	REM1	RGCC	RHOD	RLIM	RNF145
RARRES2	RBL1	RC3H1	REM2	RGL1	RHOF	RLN1	RNF146
RARS1	RBL2	RC3H2	REN	RGL2	RHOG	RLN2	RNF148
RARS2	RBM10	RCAN1	RENBP	RGL3	RHOH	RLN3	RNF149
RASA1	RBM11	RCAN2	REP15	RGL4	RHOJ	RMC1	RNF150
RASA2	RBM12	RCAN3	REPIN1	RGMA	RHOQ	RMDN1	RNF151
RASA3	RBM12B	RCBTB1	REPS1	RGMB	RHOT1	RMDN2	RNF152
RASA4	RBM14	RCBTB2	REPS2	RGN	RHOT2	RMDN3	RNF157
RASA4B	RBM14-RBM4_RBM4	RCC1	RER1	RGP1	RHOU	RMI1	RNF165
RASAL1	RBM15	RCC1L	RERE	RGPD_Family	RHOV	RMI2	RNF166
RASAL2	RBM15B	RCC2	RERG	RGPD1	RHOXF1	RMND1	RNF167
RASAL3	RBM17	RCCD1	REERGL	RGPD5_RGPD6	RHOXF2_RHOXF2B	RMND5A	RNF168
RASD1	RBM18	RCE1	RESF1	RGR	RHPN1	RMND5B	RNF169
RASD2	RBM19	RCHY1	RESP18	RGS1	RHPN2	RNASE1	RNF17
RASEF	RBM20	RCL1	REST	RGS10	RIBC1	RNASE10	RNF170
RASGEF1A	RBM22	RCN1	RET	RGS11	RIBC2	RNASE11	RNF175
RASGEF1B	RBM23	RCN2	RETN	RGS12	RIC1	RNASE12	RNF180
RASGEF1C	RBM24	RCN3	RETNLB	RGS13	RIC3	RNASE13	RNF181
RASGRF1	RBM25	RCOR1	RETREG1	RGS14	RIC8A	RNASE2	RNF182
RASGRF2	RBM26	RCOR2	RETREG2	RGS16	RIC8B	RNASE3	RNF183
RASGRP1	RBM27	RCOR3	RETREG3	RGS17	RICTOR	RNASE4	RNF185

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# Probe List

## HTG Transcriptome Panel



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Continued

RNF186	ROR1	RPL35A	RPS28	RSL24D1	RUNX2	SAGE1	SBSN
RNF187	ROR2	RPL36	RPS29	RSPH1	RUNX3	SALL1	SBSPON
RNF19A	RORA	RPL36A_AL	RPS3	RSPH10B_RSPH10B2	RUSC1	SALL2	SC5D
RNF19B	RORB	RPL36A-HNRNPH2_	RPS4X	RSPH14	RUSC2	SALL3	SCAF1
RNF2	RORC	RPL6A	RPS4Y1	RSPH3	RUVBL1	SALL4	SCAF11
RNF20	ROS1	RPL36AL	RPS4Y2	RSPH4A	RUVBL2	SAMD1	SCAF4
RNF207	RP1	RPL37	RPS5	RSPH6A	RWDD1	SAMD10	SCAF8
RNF208	RP1L1	RPL37A	RPS6	RSPH9	RWDD2A	SAMD11	SCAI
RNF212	RP2	RPL38	RPS6KA1	RSPH14	RWDD2B	SAMD12	SCAMP1
RNF212B	RP9	RPL39	RPS6KA2	RSPH14	RWDD3	SAMD13	SCAMP2
RNF213	RPA1	RPL39L	RPS6KA3	RSPH14	RWDD4_HECTD1	SAMD14	SCAMP3
RNF214	RPA2	RPL3L	RPS6KA4	RSPH14	RXFP1	SAMD15	SCAMP4
RNF215	RPA3	RPL4	RPS6KA5	RSPH14	RXFP2	SAMD3	SCAMP5
RNF216	RPA4	RPL41	RPS6KA6	RSPH14	RXFP3	SAMD4A	SCAND1
RNF217	RPAIN	RPL5	RPS6KB1	RSPH14	RXFP4	SAMD4B	SCAP
RNF220	RPAP1	RPL6	RPS6KB2	RSPH14	RXRA	SAMD5	SCAPER
RNF222	RPAP2	RPL7	RPS6KC1	RSPH14	RXRB	SAMD7	SCARA3
RNF223	RPAP3	RPL7A	RPS6KL1	RSPH14	RXRG	SAMD8	SCARA5
RNF224	RPE	RPL7L1	RPS8	RSPH14	RXYLT1	SAMD9	SCARB1
RNF225	RPE65	RPL8	RPS9	RSPH14	RYBP	SAMD9L	SCARB2
RNF227	RPEL1	RPL9	RPSA	RSPH14	RYK	SAMHD1	SCARF1
RNF24	RPF1	RPLP0	RPSA_RPSAP58	RSPH14	RYR1	SAMM50	SCARF2
RNF25	RPF2	RPLP1	RPTN	RSPH14	RYR2	SAMSN1	SCCPDH
RNF26	RPGR	RPLP2	RPTOR	RSPH14	RYR3	SAPT30	SCD
RNF31	RPGRIP1	RPN1	RPUSD1	RSPH14	RTKN2	SAP18	SCD5
RNF32	RPGRIP1L	RPN2	RPUSD2	RSPH14	RTKN1	SAP25	SCEL
RNF34	RPH3A	RPP14	RPUSD3	RSPH14	RTL10	SAP30	SCFD1
RNF38	RPH3AL	RPP21	RPUSD4	RSPH14	RTL3	SAP30BP	SCFD2
RNF39	RPIA	RPP25	RRAD	RSPH14	RTL4	SAP30L	SCG2
RNF4	RPL10	RPP25L	RRAGA	RSPH14	RTL5	SAPCD1	SCG3
RNF40	RPL10A	RPP30	RRAGB	RSPH14	RTL6	SAPCD2_PCARE	SCG5
RNF41	RPL10L	RPP38	RRAGC	RSPH14	RTL8A	SAR1A	SCGB1A1
RNF43	RPL11	RPP40	RRAGD	RSPH14	RTL8B	SAR1B	SCGB1C1
RNF44	RPL12	RPRD1A	RRAS	RSPH14	RTL8C	SARAF	SCGB1C2
RNF5	RPL13	RPRD1B	RRAS2	RSPH14	RTL9	SARDH	SCGB1D1
RNF6	RPL13A	RPRD2	RRBP1	RSPH14	RTN1	SARM1	SCGB1D2
RNF7	RPL14	RPRM	RRBE1	RSPH14	RTN2	SARNP	SCGB1D4
RNF8	RPL15	RPRML	RRH	RSPH14	RTN3	SARS1	SCGB2A1
RNFT1	RPL17_RPL17-C18orf32	RPS10	RRM1	RSPH14	RTN4	SARS2	SCGB2A2
RNFT2	RPL17-C18orf32	RPS10_RPS10-NUDT3	RRM2	RSPH14	RTN4IP1	SART1	SCGB2B2
RNGTT	RPL18	RPS10-NUDT3	RRM2B	RSPH14	RTN4R	SART3	SCGB3A1
RNH1	RPL18A	RPS11	RRN3	RSPH14	RTN4RL1	SASH1	SCGB3A2
RNLS	RPL19	RPS12	RRNAD1	RSPH14	RTN4RL2	SASH3	SCGN
RNMT	RPL21	RPS13	RRP1	RSPH14	RTP1	SASS6	SCHIP1
RNPC3	RPL22	RPS14	RRP12	RSPH14	RTP2	SAT1	SCIMP
RNPEP	RPL22L1	RPS15	RRP15	RSPH14	RTP3	SAT2	SCIN
RNPEPL1	RPL23	RPS15A	RRP1B	RSPH14	RTP4	SATB1	SCLT1
RNPS1	RPL23A	RPS16	RRP36	RSPH14	RTP5	SATB2	SCLY
RO60	RPL24	RPS17	RRP7A	RSPH14	RTRAF	SATL1	SCMH1
ROB01	RPL26	RPS18	RRP8	RSPH14	RTTN	SAV1	SCML1
ROB02	RPL26L1	RPS19	RRP9	RSPH14	RUBCN	SAXO1	SCML2
ROB03	RPL27	RPS19BP1	RRS1	RSPH14	RUBCNL	SAXO2	SCML4
ROB04	RPL27A	RPS2	RS1	RSPH14	RUFY1	SAYS1	SCN10A
ROCK1	RPL28	RPS20	RSAD1	RSPH14	RUFY2	SBDS	SCN11A
ROCK2	RPL29	RPS21	RSAD2	RSPH14	RUFY3	SBF1	SCN1A
ROGDI	RPL3	RPS23	RSBN1	RSPH14	RUFY4	SBF2	SCN1B
ROM1	RPL30	RPS24	RSBN1L	RSPH14	RUNDC1	SBK1	SCN2A
ROMO1	RPL31	RPS25	RSC1A1	RSPH14	RUNDC3A	SAE1	SBK2
ROPN1	RPL32	RPS26	RSF1	RSPH14	RUNDC3B	SAFB	SBK3
ROPN1_ROPN1B	RPL34	RPS27A	RSKR	RSPH14	RUNX1	SAFB2	SBN01
ROPN1L	RPL35	RPS27L	RSL1D1	RSPH14	RUNX1T1	SAG	SBN02
							SCN4A

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SCN4B	SEBOX	SEMA3G	SERPINA7	SF3B3	SH2D4A	SHLD3	SIRT5
SCN5A	SEC11A	SEMA4A	SERPINA9	SF3B4	SH2D4B	SHMT1	SIRT6
SCN7A	SEC11C	SEMA4B	SERPINB1	SF3B5	SH2D5	SHMT2	SIRT7
SCN8A	SEC13	SEMA4C	SERPINB10	SF3B6	SH2D6	SHOC1	SIT1
SCN9A	SEC14L1	SEMA4D	SERPINB11	SF11	SH2D7	SHOC2	SIVA1
SCNM1	SEC14L2	SEMA4F	SERPINB12	SFMBT1	SH3BGR	SHOX	SIX1
SCNN1A	SEC14L3	SEMA4G	SERPINB13	SFMBT2	SH3BGRL	SHOX2	SIX2
SCNN1B	SEC14L4	SEMA5A	SERPINB2	SFN	SH3BGRL2	SHPK	SIX3
SCNN1D	SEC14L5	SEMA5B	SERPINB3	SFPQ	SH3BGRL3	SHPRH	SIX4
SCNN1G	SEC14L6	SEMA6A	SERPINB4	SFR1	SH3BP1	SHQ1	SIX5
SCO1	SEC16A	SEMA6B	SERPINB5	SFRP1	SH3BP2	SHROOM1	SIX6
SCO2	SEC16B	SEMA6C	SERPINB6	SFRP2	SH3BP4	SHROOM2	SKA1
SCOC	SEC22A	SEMA6D	SERPINB7	SFRP4	SH3BP5	SHROOM3	SKA2
SCP2	SEC22B	SEMA7A	SERPINB8	SFRP5	SH3BP5L	SHROOM4	SKA3
SCP2D1	SEC22C	SEMG1	SERPINB9	SFSWAP	SH3D19	SHTN1	SKAP1
SCPEP1	SEC23A	SEMG2	SERPINC1	SFT2D1	SH3D21	SI	SKAP2
SCRG1	SEC23B	SENP1	SERPIND1	SFT2D2	SH3GL1	SIAE	SKI
SCRIB	SEC23IP	SENP2	SERPINE1	SFT2D3	SH3GL2	SIAH1	SKIDA1
SCRN1	SEC24A	SENP3	SERPINE2	SFTA2	SH3GL3	SIAH2	SKIL
SCRN2	SEC24B	SENP5	SERPINE3	SFTPA1	SH3GLB1	SIAH3	SKIV2L
SCRN3	SEC24C	SENP6	SERPINF1	SFTPA1_SFTPA2	SH3GLB2	SIDT1	SKOR1
SCRT1	SEC24D	SENP7	SERPINF2	SFTPB	SH3KBP1	SIDT2	SKOR2
SCRT2	SEC31A	SENP8	SERPING1	SFTPC	SH3PXD2A	SIGIRR	SKP1
SCT	SEC31B	SEPHS1	SERPINH1	SFTPD	SH3PXD2B	SIGLEC1	SKP2
SCTR	SEC61A1	SEPHS2	SERPINI1	SFXN1	SH3RF1	SIGLEC10	SLA
SCUBE1	SEC61A2	SEPSECS	SERPINI2	SFXN2	SH3RF2	SIGLEC11	SLA2
SCUBE2	SEC61B	SEPTIN1	SERTAD1	SFXN3	SH3RF3	SIGLEC12	SLAIN1
SCUBE3	SEC61G	SEPTIN10	SERTAD2	SFXN4	SH3TC1	SIGLEC14	SLAIN2
SCX	SEC62	SEPTIN11	SERTAD3	SFXN5	SH3TC2	SIGLEC15	SLAMF1
SCYL1	SEC63	SEPTIN12	SERTAD4	SGCA	SH3YL1	SIGLEC16	SLAMF6
SCYL2	SECISBP2	SEPTIN14	SERTM1	SGCB	SHANK1	SIGLEC5	SLAMF7
SCYL3	SECISBP2L	SEPTIN2	SERTM2	SGCD	SHANK2	SIGLEC6	SLAMF8
SDAD1	SECTM1	SEPTIN3	SES1	SGCE	SHANK3	SIGLEC7	SLAMF9
SDC1	SEH1L	SEPTIN4	SES2	SGCG	SHARPIN	SIGLEC8	SLBP
SDC2	SEL1L	SEPTIN5	SES3	SGCZ	SHB	SIGLEC9	SLC10A1
SDC3	SEL1L2	SEPTIN6	SESD1	SGF29	SHBG	SIGLECL1	SLC10A2
SDC4	SEL1L3	SEPTIN7	SET_SETSIP	SGIP1	SHC1	SIGMAR1	SLC10A3
SDCBP	SELE	SEPTIN8	SETBP1	SGK1	SHC2	SIK1_SIK1B	SLC10A4
SDCBP2	SELENBP1	SEPTIN9	SETD1A	SGK2	SHC3	SIK2	SLC10A5
SDCCA68	SELENOF	SERAC1	SETD1B	SGK3	SHC4	SIK3	SLC10A6
SDE2	SELENOH	SERBP1	SETD2	SGMS1	SHCBP1	SIKE1	SLC10A7
SDF2	SELENOI	SERF1A_1B	SETD3	SGMS2	SHCBP1L	SIL1	SLC11A1
SDF2L1	SELENOK	SERF2	SETD4	SGO1	SHD	SIM1	SLC11A2
SDF4	SELENOM	SERGEF	SETD5	SGO2	SHE	SIM2	SLC12A1
SDHA	SELENON	SERHL2	SETD6	SGPL1	SHF	SIMC1	SLC12A2
SDHAF1	SELENOO	SERINC1	SETD7	SGPP1	SHFL	SIN3A	SLC12A3
SDHAF2	SELENOP	SERINC2	SETD9	SGPP2	SHH	SIN3B	SLC12A4
SDHAF3	SELENOS	SERINC3	SETDB1	SGSH	SHISA2	SINHCAF	SLC12A5
SDHAF4	SELENOT	SERINC4	SETDB2	SGSM1	SHISA3	SIPA1	SLC12A6
SDHB	SELENOV	SERINC5	SETDB2_SETDB2-PHF11	SGSM2	SHISA4	SIPA1L1	SLC12A7
SDHC	SELENOW	SERP1	SETMAR	SGSM3	SHISA5	SIPA1L2	SLC12A8
SDHD	SELL	SERP2	SETX	SGTA	SHISA6	SIPA1L3	SLC12A9
SDK1	SELP	SERPINA1	SEZ6	SGTB	SHISA7	SIRPA	SLC13A1
SDK2	SELPLG	SERPINA10	SEZ6L	SH2B1	SHISA8	SIRPB1	SLC13A2
SDR16C5	SEM1	SERPINA11	SEZ6L2	SH2B2	SHISA9	SIRPB2	SLC13A3
SDR39U1	SEMA3A	SERPINA12	SF1	SH2B3	SHISAL1	SIRPD	SLC13A4
SDR42E1	SEMA3B	SERPINA2	SF3A1	SH2D1A	SHISAL2A	SIRPG	SLC13A5
SDR42E2	SEMA3C	SERPINA3	SF3A2	SH2D1B	SHISAL2B	SIRT1	SLC14A1
SDR9C7	SEMA3D	SERPINA4	SF3A3	SH2D2A	SHKBP1	SIRT2	SLC14A2
SDS	SEMA3E	SERPINA5	SF3B1	SH2D3A	SHLD1	SIRT3	SLC15A1
SDSL	SEMA3F	SERPINA6	SF3B2	SH2D3C	SHLD2	SIRT4	SLC15A2

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# Probe List

## HTG Transcriptome Panel



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SLC15A3	SLC22A6	SLC26A2	SLC35B4	SLC43A2	SLC6A19	SLFN12L	SMCO4
SLC15A4	SLC22A7	SLC26A3	SLC35C1	SLC43A3	SLC6A2	SLFN13	SMCP
SLC15A5	SLC22A8	SLC26A4	SLC35C2	SLC44A1	SLC6A20	SLFN14	SMCR8
SLC16A1	SLC22A9	SLC26A5	SLC35D1	SLC44A2	SLC6A3	SLFN5	SMDT1
SLC16A10	SLC23A1	SLC26A6	SLC35D2	SLC44A3	SLC6A4	SLFNL1	SMG1
SLC16A11	SLC23A2	SLC26A7	SLC35D3	SLC44A4	SLC6A5	SLIRP	SMG5
SLC16A12	SLC23A3	SLC26A8	SLC35E1	SLC44A5	SLC6A6	SLIT1	SMG6
SLC16A13	SLC24A1	SLC26A9	SLC35E2A_SLC35E2B	SLC45A1	SLC6A7	SLIT2	SMG7
SLC16A14	SLC24A2	SLC27A1	SLC35E2B	SLC45A2	SLC6A8	SLIT3	SMG8
SLC16A2	SLC24A3	SLC27A2	SLC35E3	SLC45A3	SLC6A9	SLITRK1	SMG9
SLC16A3	SLC24A4	SLC27A3	SLC35E4	SLC45A4	SLC7A1	SLITRK2	SMIM1
SLC16A4	SLC24A5	SLC27A4	SLC35F1	SLC46A1	SLC7A10	SLITRK3	SMIM10
SLC16A5	SLC25A1	SLC27A5	SLC35F2	SLC46A2	SLC7A11	SLITRK4	SMIM10L1
SLC16A6	SLC25A10	SLC27A6	SLC35F3	SLC46A3	SLC7A13	SLITRK5	SMIM10L2A
SLC16A7	SLC25A11	SLC28A1	SLC35F4	SLC47A1	SLC7A14	SLITRK6	SMIM10L2B
SLC16A8	SLC25A12	SLC28A2	SLC35F5	SLC47A2	SLC7A2	SLK	SMIM11A_SMIM11B
SLC16A9	SLC25A13	SLC28A3	SLC35F6	SLC48A1	SLC7A3	SLMAP	SMIM12
SLC17A1	SLC25A14	SLC29A1	SLC35G_Family	SLC49A3	SLC7A4	SLN	SMIM13
SLC17A2	SLC25A15	SLC29A2	SLC35G1	SLC49A4	SLC7A5	SLPI	SMIM14
SLC17A3	SLC25A16	SLC29A3	SLC35G2	SLC4A1	SLC7A6	SLTM	SMIM15
SLC17A4	SLC25A17	SLC29A4	SLC35G4	SLC4A10	SLC7A60S	SLU7	SMIM17
SLC17A5	SLC25A18	SLC2A1	SLC36A1	SLC4A11	SLC7A7	SLURP1	SMIM18
SLC17A6	SLC25A19	SLC2A10	SLC36A2	SLC4A1AP	SLC7A8	SLURP2	SMIM19
SLC17A7	SLC25A2	SLC2A11	SLC36A3	SLC4A2	SLC7A9	SLX1A_SLX1B	SMIM2
SLC17A8	SLC25A20	SLC2A12	SLC36A4	SLC4A3	SLC8A1	SLX4	SMIM20
SLC17A9	SLC25A21	SLC2A13	SLC37A1	SLC4A4	SLC8A2	SLX4IP	SMIM21
SLC18A1	SLC25A22	SLC2A14	SLC37A2	SLC4A5	SLC8A3	SMAD1	SMIM22
SLC18A2	SLC25A23	SLC2A2	SLC37A3	SLC4A7	SLC8B1	SMAD2	SMIM23
SLC18A3	SLC25A24	SLC2A3	SLC37A4	SLC4A8	SLC9A1	SMAD3	SMIM24
SLC18B1	SLC25A25	SLC2A4	SLC38A1	SLC4A9	SLC9A2	SMAD4	SMIM25
SLC19A1	SLC25A26	SLC2A4RG	SLC38A10	SLC50A1	SLC9A3	SMAD5	SMIM26
SLC19A2	SLC25A27	SLC2A5	SLC38A11	SLC51A	SLC9A3R1	SMAD6	SMIM27
SLC19A3	SLC25A28	SLC2A6	SLC38A2	SLC51B	SLC9A3R2	SMAD7	SMIM28
SLC1A1	SLC25A29	SLC2A7	SLC38A3	SLC52A1	SLC9A4	SMAD9	SMIM29
SLC1A2	SLC25A3	SLC2A8	SLC38A4	SLC52A2	SLC9A5	SMAGP	SMIM3
SLC1A3	SLC25A30	SLC2A9	SLC38A5	SLC52A3	SLC9A6	SMAP1	SMIM30
SLC1A4	SLC25A31	SLC30A1	SLC38A6	SLC5A1	SLC9A7	SMAP2	SMIM31
SLC1A5	SLC25A32	SLC30A10	SLC38A7	SLC5A10	SLC9A8	SMARCA1	SMIM32
SLC1A6	SLC25A33	SLC30A2	SLC38A8	SLC5A11	SLC9A9	SMARCA2	SMIM33
SLC1A7	SLC25A34	SLC30A3	SLC38A9	SLC5A12	SLC9B1	SMARCA4	SMIM34A
SLC20A1	SLC25A35	SLC30A4	SLC39A1	SLC5A2	SLC9B2	SMARCA5	SMIM35
SLC20A2	SLC25A36	SLC30A5	SLC39A10	SLC5A3	SLC9C1	SMARCAD1	SMIM38
SLC22A1	SLC25A37	SLC30A6	SLC39A11	SLC5A4	SLC9C2	SMARCAL1	SMIM4
SLC22A10	SLC25A38	SLC30A7	SLC39A12	SLC5A5	SLC01A2	SMARCB1	SMIM40
SLC22A11	SLC25A39	SLC30A8	SLC39A13	SLC5A6	SLC01B1	SMARCC1	SMIM41
SLC22A12	SLC25A4	SLC30A9	SLC39A14	SLC5A7	SLC01B3	SMARCC2	SMIM43
SLC22A13	SLC25A40	SLC31A1	SLC39A2	SLC5A8	SLC01B3_SLC01B3-	SMARCD1	SMIM5
SLC22A14	SLC25A41	SLC31A2	SLC39A3	SLC5A9	SLC01B7	SMARCD2	SMIM6
SLC22A15	SLC25A42	SLC32A1	SLC39A4	SLC66A1	SLC01B7	SMARCD3	SMIM7
SLC22A16	SLC25A43	SLC33A1	SLC39A5	SLC66A1L	SLC01C1	SMARCE1	SMIM8
SLC22A17	SLC25A44	SLC34A1	SLC39A6	SLC66A2	SLC02A1	SMC1A	SMIM9
SLC22A18	SLC25A45	SLC34A2	SLC39A7	SLC66A3	SLC02B1	SMC1B	SMKR1
SLC22A18AS	SLC25A46	SLC34A3	SLC39A8	SLC6A1	SLC03A1	SMC2	SMLR1
SLC22A2	SLC25A47	SLC35A1	SLC39A9	SLC6A11	SLC04A1	SMC3	SMN1_SMN2
SLC22A23	SLC25A48	SLC35A2	SLC3A1	SLC6A12	SLC04C1	SMC4	SMNDC1
SLC22A24	SLC25A5	SLC35A3	SLC3A2	SLC6A13	SLC05A1	SMC5	SMO
SLC22A25	SLC25A51_SLC25A52	SLC35A4	SLC40A1	SLC6A14	SLC06A1	SMC6	SMOC1
SLC22A3	SLC25A53	SLC35A5	SLC41A1	SLC6A15	SLF1	SMCHD1	SMOC2
SLC22A31	SLC25A6	SLC35B1	SLC41A2	SLC6A16	SLF2	SMC01	SMOX
SLC22A4	SLC26A1	SLC35B2	SLC41A3	SLC6A17	SLFN11	SMC02	SMPD1
SLC22A5	SLC26A11	SLC35B3	SLC43A1	SLC6A18	SLFN12	SMC03	SMPD2

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SMPD3	SNRPE	SORBS2	SPAG17	SPCS2	SPNS3	SQOR	SS18
SMPD4	SNRPF	SORBS3	SPAG4	SPCS3	SP011	SQSTM1	SS18L1
SMPDL3A	SNRPG	SORCS1	SPAG5	SPDEF	SPOCD1	SRA1	SS18L2
SMPDL3B	SNRPN_SNURF	SORCS2	SPAG6	SPDL1	SPOCK1	SRARP	SSB
SMPX	SNTA1	SORCS3	SPAG7	SPDYA	SPOCK2	SRBD1	SSBP1
SMR3A	SNTB1	SORD	SPAG8	SPDYC	SPOCK3	SRC	SSBP2
SMR3B	SNTB2	SORL1	SPAG9	SPDYE_Family_1	SPON1	SRCAP	SSBP3
SMS_KIAA1549L	SNTG1	SORT1	SPAM1	SPDYE_Family_2	SPON2	SRCIN1	SSBP4
SMTN	SNTG2	SOS1	SPANX_Family	SPDYE_Family_3	SPOP	SRD5A1	SSC4D
SMTNL1	SNTN	SOS2	SPANXB1	SPDYE1_SPDYE16	SPOPL	SRD5A2	SSC5D
SMTNL2	SNU13	SOST	SPANXN1	SPDYE10P	SPOUT1	SRD5A3	SSH1
SMU1	SNUPN	SOSTDC1	SPANXN2	SPDYE14	SPP1	SREBF1	SSH2
SMUG1	SNW1	SOWAHA	SPANXN3	SPDYE3	SPP2	SREBF2	SSH3
SMURF1	SNX1	SOWAHB	SPANXN4	SPDYE4	SPPL2A	SREK1	SSMEM1
SMURF2	SNX10	SOWAHC	SPANXN5	SPECC1	SPPL2B	SREK1IP1	SSNA1
SMYD1	SNX11	SOWAHD	SPARC	SPECC1L	SPPL2C	SRF	SSPN
SMYD2	SNX12	SOX1	SPARCL1	SPEF1	SPPL3	SRFBP1	SSR1
SMYD3	SNX13	SOX10	SPART	SPEF2	SPR	SRGAP1	SSR2
SMYD4	SNX14	SOX11	SPAST	SPEG	SPRED1	SRGAP2	SSR3
SMYD5	SNX15	SOX12	SPATA1	SPEGNB	SPRED2	SRGAP2_Family	SSR4
SNAI1	SNX16	SOX13	SPATA12	SPEM1	SPRED3	SRGAP3	SSRP1
SNAI2	SNX17	SOX14	SPATA13	SPEM2	SPRN	SRGN	SST
SNAI3	SNX18	SOX15	SPATA16	SPEM3	SPRR1A	SRI	SSTR1
SNAP23	SNX19	SOX17	SPATA17	SPEN	SPRR1B	SRL	SSTR2
SNAP25	SNX2	SOX18	SPATA18	SPESP1	SPRR2_Family	SRM	SSTR3
SNAP29	SNX20	SOX2	SPATA19	SPG11	SPRR2B	SRMS	SSTR4
SNAP47	SNX21	SOX21	SPATA2	SPG21	SPRR2D	SRP14	SSTR5
SNAP91	SNX22	SOX3	SPATA20	SPG7	SPRR2E	SRP19	SSU72
SNAPC1	SNX24	SOX30	SPATA21	SPHK1	SPRR2F	SRP54	SSUH2
SNAPC2	SNX25	SOX4	SPATA22	SPHK2	SPRR2G	SRP68	SSX1
SNAPC3	SNX27	SOX5	SPATA24	SPHKAP	SPRR3	SRP72	SSX2_SSX2B
SNAPC4	SNX29	SOX6	SPATA25	SPI1	SPRR4	SRP9	SSX2IP
SNAPC5	SNX3	SOX7	SPATA2L	SPIB	SPRTN	SRPK1	SSX3
SNAPIN	SNX30	SOX8	SPATA3	SPIC	SPRY1	SRPK2	SSX4_SSX4B
SNCA	SNX31	SOX9	SPATA31A1	SPICE1	SPRY2	SRPK3	SSX5
SNCAIP	SNX32	SP1	SPATA31C1	SPIDR	SPRY3	SRPRA	SSX7
SNCB	SNX33	SP100	SPATA31C1_SPATA31C2	SPIN1	SPRY4	SPRPB	ST13
SNCG	SNX4	SP110	SPATA31D1	SPIN2A	SPRYD3	SRPX	ST14
SND1	SNX5	SP140	SPATA31D3	SPIN2A_SPIN2B	SPRYD4	SRPX2	ST18
SNED1	SNX6	SP140L	SPATA31D3_SPATA31D4	SPIN3	SPRYD7	SRR	ST20-MTHFS
SNF8	SNX7	SP2	SPATA31E1	SPIN4	SPSB1	SRRD	ST3GAL1
SNIP1	SNX8	SP3	SPATA32	SPINDOC	SPSB2	SRRM1	ST3GAL2
SNN	SNX9	SP4	SPATA33	SPINK1	SPSB3	SRRM2	ST3GAL3
SNORC	SOAT1	SP5	SPATA4	SPINK13	SPSB4	SRRM3	ST3GAL4
SNPH	SOAT2	SP6	SPATA45	SPINK14	SPTA1	SRRM4	ST3GAL5
SNRK	SOBP	SP7	SPATA46	SPINK2	SPTAN1	SRRM5	ST3GAL6
SNRNP200	SOCS1	SP8	SPATA48	SPINK4	SPTB	SRRT	ST6GAL1
SNRNP25	SOCS2	SP9	SPATA5	SPINK5	SPTBN1	SRSF1	ST6GAL2
SNRNP27	SOCS3	SPA17	SPATA5L1	SPINK6	SPTBN2	SRSF10	ST6GALNAC1
SNRNP35	SOCS4	SPAAR	SPATA6	SPINK7	SPTBN4	SRSF11	ST6GALNAC2
SNRNP40	SOCS5	SPACA1	SPATA6L	SPINK8	SPTBN5	SRSF12	ST6GALNAC3
SNRNP48	SOCS6	SPACA3	SPATA7	SPINK9	SPTLC1	SRSF2	ST6GALNAC4
SNRNP70	SOCS7	SPACA4	SPATA9	SPINT1	SPTLC2	SRSF3	ST6GALNAC5
SNRPA	SOD1	SPACA5	SPATC1	SPINT2	SPTLC3	SRSF4	ST6GALNAC6
SNRPA1	SOD2	SPACA5_SPACA5B	SPATC1L	SPINT3	SPTSSA	SRSF5	ST7
SNRPB	SOD3	SPACA6	SPATS1	SPINT4	SPTSSB	SRSF6	ST7L
SNRPB2	SOGA1	SPACA7	SPATS2	SPIRE1	SPTY2D1	SRSF7	ST8SIA1
SNRPC	SOGA3	SPACA9	SPATS2L	SPIRE2	SPTY2D10S	SRSF8	ST8SIA2
SNRPD1	SOHLH1	SPAG1	SPC24	SPN	SPX	SRSF9	ST8SIA3
SNRPD2	SON	SPAG11A_B	SPC25	SPNS1	SPZ1	SRXN1	ST8SIA4
SNRPD3	SORBS1	SPAG16	SPCS1	SPNS2	SQLE	SRY	ST8SIA5

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ST8SIA6	STK26	STX1B	SUPT5H	SYNGR4	TADA2A	TAS1R1	TBC1D2B
STAB1	STK3	STX2	SUPT6H	SYNJ1	TADA2B	TAS1R2	TBC1D3
STAB2	STK31	STX3	SUPT7L	SYNJ2	TADA3	TAS1R3	TBC1D3_Family
STAC	STK32A	STX4	SUPV3L1	SYNJ2BP	TAF1	TAS2R1	TBC1D30
STAC2	STK32B	STX5	SURF1	SYNJ2BP.SYNJ2BP-	TAF10	TAS2R10	TBC1D31
STAC3	STK32C	STX6	SURF2	COX16	TAF11	TAS2R13	TBC1D32
STAG1	STK33	STX7	SURF4	SYNM	TAF12	TAS2R14	TBC1D4
STAG2	STK35	STX8	SURF6	SYNPO	TAF13	TAS2R16	TBC1D5
STAG3	STK36	STXBP1	SUSD1	SYNPO2	TAF15	TAS2R19	TBC1D7_TBC1D7-
STAM	STK38	STXBP2	SUSD2	SYNPO2L	TAF1A	TAS2R20	LOC100130357
STAM2	STK38L	STXBP3	SUSD3	SYNPR	TAF1B	TAS2R3	TBC1D8
STAMBP	STK39	STXBP4	SUSD4	SYNRG	TAF1C	TAS2R30	TBC1D8B
STAMBPL1	STK4	STXBP5	SUSD5	SYP	TAF1D	TAS2R31_Family	TBC1D9
STAP1	STK40	STXBP5L	SUSD6	SYPL1	TAF1L	TAS2R38	TBC1D9B
STAP2	STKLD1	STXBP6	SUV39H1	SYPL2	TAF2	TAS2R39	TBCA
STAR	STMN1	STYK1	SUV39H2	YS1	TAF3	TAS2R4	TBCB
STARD10	STMN2	STYX	SUZ12	SYT1	TAF4	TAS2R40	TBCC
STARD13	STMN3	STYXL1	SV2A	SYT10	TAF4B	TAS2R41	TBCCD1
STARD3	STMN4	SUB1	SV2B	SYT11	TAF5	TAS2R42	TBCD
STARD3NL	STMND1	SUCLA2	SV2C	SYT12	TAF5L	TAS2R43	TBCE
STARD4	STMP1	SUCLG1	SVBP	SYT13	TAF6	TAS2R45	TBCEL
STARD5	STN1	SUCLG2	SVEP1	SYT14	TAF6L	TAS2R46	TBCEL-TECTA
STARD6	STOM	SUCNR1	SVIL	SYT16	TAF7	TAS2R5	TBCK
STARD7	STOML1	SUCO	SVIP	SYT17	TAF7L	TAS2R50	TBK1
STARD8	STOML2	SUDS3	SVOP	SYT2	TAF8	TAS2R60	TBKBP1
STARD9	STOML3	SUFU	SVOPL	SYT3	TAF9	TAS2R7	TBL1X
STAT1	STON1	SUGCT	SWAP70	SYT4	TAF9B	TAS2R8	TBL1XR1
STAT2	STON1-GTF2AIL	SUGP1	SWI5	SYT5	TAF1A	TAS2R9	TBL1Y
STAT3	STON2	SUGP2	SWSAP1	SYT6	TAF1A2	TASOR	TBL2
STAT4	STOX1	SUGT1	SWT1	SYT7	TAF1A3	TASOR2	TBL3
STAT5A	STOX2	SULF1	SYAP1	SYT8	TAF1A4	TASP1	TBP
STAT5B	STPG1	SULF2	SYBU	SYT9	TAF1A5	TAT	TBPL1
STAT6	STPG2	SULT1A_Family	SYCE1	SYTL1	TAGAP	TATDN1	TBPL2
STATH	STPG3	SULT1A1	SYCE1L	SYTL2	TAGLN	TATDN2	TBR1
STAU1	STPG4	SULT1A2	SYCE2	SYTL3	TAGLN2	TATDN3	TBRG1
STAU2	STRA6	SULT1B1	SYCE3	SYTL4	TAGLN3	TAX1BP1	TBRG4
STBD1	STRA8	SULT1C2	SYCN	SYTL5	TAL1	TAX1BP3	TBX1
STC1	STRADA	SULT1C3	SYCP1	SYVN1	TAL2	TAZ	TBX10
STC2	STRADB	SULT1C4	SYCP2	SZRD1	TALD01	TBATA	TBX15
STEAP1_STEAP1B	STRAP	SULT1E1	SYCP2L	SZT2	TAMM41	TBC1D1	TBX18
STEAP2	STRBP	SULT2A1	SYCP3	TAAR1	TANC1	TBC1D10A	TBX19
STEAP3	STRC	SULT2B1	SYDE1	TAAR2	TANC2	TBC1D10B	TBX2
STEAP4	STRIP1	SULT4A1	SYDE2	TAAR5	TANG02	TBC1D10C	TBX20
STH	STRIP2	SULT6B1	SYF2	TAAR6	TANG06	TBC1D12	TBX21
STIL	STRIT1	SUMF1	SYK	TAAR8	TANK	TBC1D13	TBX22
STIM1	STRN	SUMF2	SYMPK	TAAR9	TAOK1	TBC1D14	TBX3
STIM2	STRN3	SUMO1	SYN1	TAB1	TAOK2	TBC1D15	TBX4
STIMATE	STRN4	SUMO2	SYN2	TAB2	TAOK3	TBC1D16	TBX5
STIMATE_STIMATE-	STS	SUMO3	SYN3	TAB3	TAP1	TBC1D17	TBX6
MUSTN1	STT3A	SUMO4	SYNC	TAC1	TAP2	TBC1D19	TBXA2R
STING1	STT3B	SUN1	SYNCRIP	TAC3	TAPBP	TBC1D2	TBXA1
STIP1	STUB1	SUN2	SYNDIG1	TAC4	TAPBPL	TBC1D20	TBXT
STK10	STUM	SUN3	SYNDIG1L	TACC1	TAPT1	TBC1D21	TC2N
STK11	STX10	SUN5	SYNE1	TACC2	TARBP1	TBC1D22A	TCAF1
STK11IP	STX11	SUOX	SYNE2	TACC3	TARBP2	TBC1D22B	TCAF2
STK16	STX12	SUPT16H	SYNE3	TAC01	TARDBP	TBC1D23	TCAIM
STK17A	STX16	SUPT20H	SYNE4	TACR1	TARM1	TBC1D24	TCAP
STK17B	STX17	SUPT20HL1	SYNGAP1	TACR2	TARP	TBC1D25	TCEA1
STK19	STX18	SUPT20HL2	SYNGR1	TACR3	TARS1	TBC1D26	TCEA2
STK24	STX19	SUPT3H	SYNGR2	TACSTD2	TARS2	TBC1D26_TBC1D28	TCEA3
STK25	STX1A	SUPT4H1	SYNGR3	TADA1	TARS3	TBC1D29P	TCEAL1

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TCEAL2	TDRD5	TEX11	TFR2	THOC5	TINAG	TM6SF1	TMEM121
TCEAL3	TDRD6	TEX12	TFRC	THOC6	TINAGL1	TM6SF2	TMEM121B
TCEAL4	TDRD7	TEX13A	TG	THOC7	TINF2	TM7SF2	TMEM123
TCEAL5	TDRD9	TEX13B	TGDS	THOP1	TIPARP	TM7SF3	TMEM125
TCEAL6	TDRKH	TEX13C	TGFA	THPO	TIPIN	TM9SF1	TMEM126A
TCEAL7	TDRP	TEX13D	TGFB1	THRA	TIPRL	TM9SF2	TMEM126B
TCEAL8	TEAD1	TEX14	TGFB1I1	THRAP3	TIRAP	TM9SF3	TMEM127
TCEAL9	TEAD2	TEX15	TGFB2	THRB	TJAP1	TM9SF4	TMEM128
TCEANC	TEAD3	TEX19	TGFB3	THRSP	TJP1	TMA16	TMEM129
TCEANC2	TEAD4	TEX2	TGFB1	THSD1	TJP2	TMA7	TMEM130
TCERG1	TEC	TEX22	TGFBR1	THSD4	TJP3	TMBIM1	TMEM131
TCERG1L	TECPR1	TEX26	TGFBR2	THSD7A	TK1	TMBIM4	TMEM131L
TCF12	TECPR2	TEX26I	TGFBR3	THSD7B	TK2	TMBIM6	TMEM132A
TCF15	TECR	TEX264	TGFBR3L	THTPA	TKFC	TMC1	TMEM132B
TCF19	TECRL	TEX28	TGFBRAP1	THUMPDI	TKT	TMC2	TMEM132C
TCF20	TECTA	TEX29	TGIF1	THUMPDI2	TKTL1	TMC3	TMEM132D
TCF21	TECTB	TEX30	TGIF2	THUMPDI3	TKTL2	TMC4	TMEM132E
TCF23	TEDC1	TEX33	TGIF2LX_TGIF2LY	THY1	TLCD1	TMC5	TMEM134
TCF24	TEDC2	TEX35	TGIF2-RAB5IF	THYN1	TLCD2	TMC6	TMEM135
TCF25	TEDDM1	TEX36	TGM1	TIA1	TLCD3A	TMC7	TMEM138
TCF3	TEF	TEX37	TGM2	TIAF1	TLCD3B	TMC8	TMEM139
TCF4	TEFM	TEX38	TGM3	TIAL1	TLCD4	TMCC1	TMEM140
TCF7	TEK	TEX43	TGM4	TIAM1	TLCD4-RWDD3	TMCC2	TMEM141
TCF7L1	TEKT1	TEX44	TGM5	TIAM2	TLCD5	TMCC3	TMEM143
TCF7L2	TEKT2	TEX45	TGM6	TICAM1	TLDC2	TMCO1	TMEM144
TCFL5	TEKT3	TEX46	TGM7	TICAM2	TLE1	TMCO2	TMEM145
TCHH	TEKT4	TEX47	TGOLN2	TICRR	TLE2	TMCO3	TMEM147
TCHHL1	TEKT5	TEX48	TGS1	TIE1	TLE3	TMCO4	TMEM14A
TCHP	TELO2	TEX49	TH	TIFA	TLE4	TMCO5A	TMEM14B
TCIM	TEN1	TEX50	THADA	TIFAB	TLE5	TMCO6	TMEM14C
TCIRG1	TENM1	TEX51	THAP1	TIGAR	TLE6	TMED1	TMEM150A
TCL1A	TENM2	TEX52	THAP10	TIGD1	TLE7	TMED10	TMEM150B
TCL1B	TENM3	TEX53	THAP11	TIGD2	TLK1	TMED2	TMEM150C
TCN1	TENM4	TEX55	THAP12_CLPX	TIGD3	TLK2	TMED3	TMEM151A
TCN2	TENT2	TEX9	THAP2	TIGD4	TLL1	TMED4	TMEM151B
TCOF1	TENT4A	TF	THAP3	TIGD5	TLL2	TMED5	TMEM154
TCP1	TENT4B	TFAM	THAP4	TIGD6	TLN1	TMED6	TMEM156
TCP10L	TENT5A	TFAP2A	THAP5	TIGD7	TLN2	TMED7	TMEM158
TCP11	TENT5B	TFAP2B	THAP6	TIGIT	TLNRD1	TMED7_TMED7-TICAM2	TMEM159
TCP11L1	TENT5C	TFAP2C	THAP7	TIMD4	TLR1	TMED8	TMEM160
TCP11L2	TENT5D	TFAP2D	THAP8	TIMELESS	TLR10	TMED9	TMEM161A
TCP11X1_TCP11X2	TEP1	TFAP2E	THAP9	TIMM10	TLR2	TMEFF1	TMEM161B
TCTA	TEPP	TFAP4	THBD	TIMM10B	TLR3	TMEFF2	TMEM163
TCTE1	TEPSIN	TFB1M	THBS1	TIMM13	TLR4	TMEM100	TMEM164
TCTE3	TERB1	TFB2M	THBS2	TIMM17A	TLR5	TMEM101	TMEM165
TCTEX1D1	TERB2	TFCP2	THBS3	TIMM17B	TLR6	TMEM102	TMEM167A
TCTEX1D2	TERF1	TFCP2L1	THBS4	TIMM21	TLR7	TMEM104	TMEM167B
TCTEX1D4	TERF2	TFDP1	THEG	TIMM22	TLR8	TMEM106A	TMEM168
TCTN1	TERF2IP	TFDP2	THEG5	TIMM23	TLR9	TMEM106B	TMEM169
TCTN2	TERT	TFDP3	THEGL	TIMM23B	TLX1	TMEM106C	TMEM17
TCTN3	TES	TFE3	THEM4	TIMM29	TLX2	TMEM107	TMEM170A
TDG	TESC	TFEB	THEM5	TIMM44	TLX3	TMEM108	TMEM170B
TDGF1	TESK1	TFEC	THEM6	TIMM50	TM2D1	TMEM109	TMEM171
TD02	TESK2	TFF1	THEMIS	TIMM8A	TM2D2	TMEM11	TMEM174
TDP1	TESMIN	TFF2	THEMIS2	TIMM8B	TM2D3	TMEM114	TMEM175
TDP2	TESPA1	TFF3	THG1L	TIMM9	TM4SF1	TMEM115	TMEM176A
TDRD1	TET1	TFG	THNSL1	TIMMDC1	TM4SF18	TMEM116	TMEM176B
TDRD10	TET2	TFIP11	THNSL2	TIMP1	TM4SF19	TMEM117	TMEM177
TDRD12	TET3	TFPI	THOC1	TIMP2	TM4SF20	TMEM119	TMEM178A
TDRD15	TEX10	TFPI2	THOC2	TIMP3	TM4SF4	TMEM120A	TMEM178B
TDRD3	TEX101	TFPT	THOC3	TIMP4	TM4SF5	TMEM120B	TMEM179

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TMEM179B	TMEM242	TMEM59L	TMPRSS6	TNFSF8	TOP3A	TPRN	TREML1
TMEM18	TMEM243	TMEM60	TMPRSS7	TNFSF9	TOP3B	TPRX1	TREML2
TMEM181	TMEM244	TMEM61	TMPRSS9	TNIK	TOPAZ1	TPS_Family	TREML4
TMEM182	TMEM245	TMEM62	TMSB10	TNIP1	TOPBP1	TPSD1	TRERF1
TMEM183A	TMEM246	TMEM63A	TMSB15A	TNIP2	TOPORS	TPSG1	TREX1
TMEM183A_TMEM183B	TMEM247	TMEM63B	TMSB15B	TNIP3	TOR1A	TPST1	TREX2
TMEM184A	TMEM248	TMEM63C	TMSB4X	TNK1	TOR1AIP1	TPST2	TRH
TMEM184B	TMEM249	TMEM64	TMSB4Y	TNK2	TOR1AIP2	TPT1	TRHDE
TMEM184C	TMEM25	TMEM65	TMTC1	TNKS	TOR1B	TPTTE	TRHR
TMEM185A	TMEM250	TMEM67	TMTC2	TNKS1BP1	TOR2A	TPTE_TPTE2	TRIAP1
TMEM185B	TMEM251	TMEM68	TMTC3	TNKS2	TOR3A	TPTE2	TRIB1
TMEM186	TMEM252	TMEM69	TMTC4	TNMD	TOR4A	TPTEP2-CSNK1E	TRIB2
TMEM187	TMEM253	TMEM70	TMUB1	TNN	TOX	TPX2	TRIB3
TMEM19	TMEM254	TMEM71	TMUB2	TNNC1	TOX2	TRA2A	TRIL
TMEM190	TMEM255A	TMEM72	TMX1	TNNC2	TOX3	TRA2B	TRIM10
TMEM191B_TMEM191C	TMEM255B	TMEM74	TMX2	TNNI1	TOX4	TRABD	TRIM11
TMEM192	TMEM256	TMEM74B	TMX3	TNNI2	TP53	TRABD2A	TRIM13
TMEM196	TMEM258	TMEM79	TMX4	TNNI3	TP53AIP1	TRABD2B	TRIM14
TMEM198	TMEM259	TMEM80	TNC	TNNI3K	TP53BP1	TRADD	TRIM15
TMEM199	TMEM26	TMEM81	TNF	TNNT1	TP53BP2	TRAF1	TRIM16_TRIM16L
TMEM200A	TMEM260	TMEM82	TNFAIP1	TNNT2	TP53I11	TRAF2	TRIM16L
TMEM200B	TMEM262	TMEM86A	TNFAIP2	TNNT3	TP53I13	TRAF3	TRIM17
TMEM200C	TMEM263	TMEM86B	TNFAIP3	TNP1	TP53I3	TRAF3IP1	TRIM2
TMEM201	TMEM265	TMEM87A	TNFAIP6	TNP2	TP53INP1	TRAF3IP2	TRIM21
TMEM202	TMEM266	TMEM87B	TNFAIP8	TNPO1	TP53INP2	TRAF3IP3	TRIM22
TMEM203	TMEM267	TMEM88	TNFAIP8L1	TNPO2	TP53RK	TRAF4	TRIM23
TMEM204	TMEM268	TMEM88B	TNFAIP8L2	TNPO3	TP53TG3_Family	TRAF5	TRIM24
TMEM205	TMEM269	TMEM89	TNFAIP8L2_TN- FAIP8L2-SCNM1	TNR	TP53TG3B	TRAF6	TRIM25
TMEM207	TMEM270	TMEM8B	TNFAIP8L3	TNRC18	TP53TG5	TRAF7	TRIM26
TMEM208	TMEM271	TMEM9	TNFAIP8L3	TNRC6A	TP63	TRAFD1	TRIM27
TMEM209	TMEM272	TMEM91	TNFRSF10A	TNRC6B	TP73	TRAIIP	TRIM28
TMEM210	TMEM273	TMEM92	TNFRSF10B	TNRC6C	TPBG	TRAK1	TRIM29
TMEM211	TMEM275	TMEM94	TNFRSF10C	TNS1	TPBGL	TRAK2	TRIM3
TMEM212	TMEM30A	TMEM95	TNFRSF10D	TNS2	TPCN1	TRAM1	TRIM31
TMEM213	TMEM30B	TMEM97	TNFRSF11A	TNS3	TPCN2	TRAM1L1	TRIM32
TMEM214	TMEM31	TMEM98	TNFRSF11B	TNS4	TPD52	TRAM2	TRIM33
TMEM215	TMEM33	TMEM9B	TNFRSF12A	TNXB	TPD52L1	TRANK1	TRIM34
TMEM216	TMEM35A	TMF1	TNFRSF13B	TOB1	TPD52L2	TRAP1	TRIM34_TRIM6-TRIM34
TMEM217	TMEM35B	TMIE	TNFRSF13C	TOB2	TPD52L3	TRAPPC1	TRIM35
TMEM218	TMEM37	TMIGD1	TNFRSF14	TOE1	TPGS1	TRAPPC10	TRIM36
TMEM219	TMEM38A	TMIGD2	TNFRSF17	TOGARAM1	TPGS2	TRAPPC11	TRIM37
TMEM220	TMEM38B	TMIGD3	TNFRSF18	TOGARAM2	TPH1	TRAPPC12	TRIM38
TMEM221	TMEM39A	TMLHE	TNFRSF19	TOLLIP	TPH2	TRAPPC13	TRIM39
TMEM222	TMEM39B	TMOD1	TNFRSF1A	TOM1	TPH1	TRAPPC2	TRIM39-RPP21
TMEM223	TMEM40	TMOD2	TNFRSF1B	TOM1L1	TPK1	TRAPPC2B	TRIM4
TMEM225	TMEM41A	TMOD3	TNFRSF21	TOM1L2	TPM1	TRAPPC2L	TRIM40
TMEM225B	TMEM41B	TMOD4	TNFRSF25	TOMM20	TPM2	TRAPPC3	TRIM41
TMEM229A	TMEM42	TMPO	TNFRSF4	TOMM20L	TPM3	TRAPPC3L	TRIM42
TMEM229B	TMEM43	TMPPE	TNFRSF6B	TOMM22	TPM4_TPM1	TRAPPC4	TRIM43_TRIM43B
TMEM230	TMEM44	TMPRSS11A	TNFRSF8	TOMM34	TPMT	TRAPPC5	TRIM44
TMEM231	TMEM45A	TMPRSS11B	TNFRSF9	TOMM40	TPO	TRAPPC6A	TRIM45
TMEM232	TMEM45B	TMPRSS11D	TNFSF10	TOMM40L	TPP1	TRAPPC6B	TRIM46
TMEM233	TMEM47	TMPRSS11E	TNFSF11	TOMM5	TPP2	TRAPPC8	TRIM47
TMEM234	TMEM50A	TMPRSS11F	TNFSF12	TOMM6	TPPP	TRAPPC9	TRIM48
TMEM235	TMEM50B	TMPRSS12	TNFSF12-TNFSF13	TOMM7	TPPP2	TRARG1	TRIM49
TMEM236	TMEM51	TMPRSS13	TNFSF13	TOMM70	TPPP3	TRAT1	TRIM49D1
TMEM237	TMEM52	TMPRSS15	TNFSF13B	TONSL	TPR	TRDMT1	TRIM5
TMEM238	TMEM52B	TMPRSS2	TNFSF14	TOP1	TPRA1	TRDN	TRIM50
TMEM239	TMEM53	TMPRSS3	TNFSF15	TOP1MT	TPRG1	TREH	TRIM51
TMEM240	TMEM54	TMPRSS4	TNFSF18	TOP2A	TPRG1L	TREM1	TRIM52
TMEM241	TMEM59	TMPRSS5	TNFSF4	TOP2B	TPRKB	TREM2	TRIM54

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TRIM55	TRPA1	TSPAN13	TTC29	TUBB2B	TYMS	UBE2N_UBE2NL	UCMA
TRIM56	TRPC1	TSPAN14	TTC3	TUBB3	TYMSOS	UBE2O	UCN
TRIM58	TRPC3	TSPAN15	TTC30A	TUBB4A	TYR	UBE2Q1	UCN2
TRIM59	TRPC4	TSPAN16	TTC30B	TUBB4B	TYRO3	UBE2Q2	UCN3
TRIM6	TRPC4AP	TSPAN17	TTC31	TUBB6	TYROBP	UBE2QL1	UCP1
TRIM60	TRPC5	TSPAN18	TTC32	TUBB8_TUBB8B	TYRP1	UBE2R2	UCP2
TRIM61	TRPC5OS	TSPAN19	TTC33	TUBD1	TYSDN1	UBE2S	UCP3
TRIM62	TRPC6	TSPAN2	TTC34	TUBE1	TYW1	UBE2T	UEVLD
TRIM63	TRPC7	TSPAN3	TTC36	TUBG1	TYW1B	UBE2U	UFC1
TRIM64	TRPM1	TSPAN31	TTC37	TUBG2	TYW3	UBE2V1	UFD1
TRIM64_Family	TRPM2	TSPAN32	TTC38	TUBGCP2	TYW5	UBE2V2	UFL1
TRIM65	TRPM3	TSPAN33	TTC39A	TUBGCP3	U2AF1_U2AF1L5	UBE2W	UFM1
TRIM66	TRPM4	TSPAN4	TTC39B	TUBGCP4	U2AF1L4	UBE2Z	UFSP1
TRIM67	TRPM5	TSPAN5	TTC39C	TUBGCP5	U2AF2	UBE3A	UFSP2
TRIM68	TRPM6	TSPAN6	TTC4	TUBGCP6	U2SURP	UBE3B	UGCG
TRIM69	TRPM7	TSPAN7	TTC5	TUFM	UACA	UBE3C	UGDH
TRIM7	TRPM8	TSPAN8	TTC6	TUFT1	UAP1	UBE3D	UGGT1
TRIM71	TRPS1	TSPAN9	TTC7A	TULP1	UAP1L1	UBE4A	UGGT2
TRIM72	TRPT1	TSPEAR	TTC7B	TULP2	UBA1	UBE4B	UGP2
TRIM73_TRIM74	TRPV1	TSP0	TTC8	TULP3	UBA2	UBFD1	UGT1A_Family
TRIM77	TRPV2	TSP02	TTC9	TULP4	UBA3	UBIAD1	UGT1A1
TRIM8	TRPV3	TSP0AP1	TTC9B	TUSC1	UBA5	UBL3	UGT1A10
TRIM9	TRPV4	TSPY_Family	TTC9C	TUSC2	UBA52	UBL4A	UGT1A4
TRIML1	TRPV5	TSPYL1	TTF1	TUSC3	UBA6	UBL4B	UGT1A6
TRIML2	TRPV6	TSPYL2	TTF2	TUT1	UBA7	UBL5	UGT1A8
TRIO	TRRAP	TSPYL4	TTI1	TUT4	UBAC1	UBL7	UGT1A9
TRIOBP	TRUB1	TSPYL5	TTI2	TUT7	UBAC2	UBLCP1	UGT2A1
TRIP10	TRUB2	TSPYL6	TTK	TVP23_Family	UBALD1	UBN1	UGT2A2
TRIP11	TSACC	TSR1	TTL	TVP23A	UBALD2	UBN2	UGT2A3
TRIP12	TSBP1	TSR2	TTL1	TVP23C-CDRT4	UBAP1	UBOX5	UGT2B10
TRIP13	TSC1	TSR3	TTL10	TWF1	UBAP1L	UBP1	UGT2B11
TRIP4	TSC2	TSSC4	TTL11	TWF2	UBAP2	UBQLN1	UGT2B15
TRIP6	TSC22D1	TSSK1B	TTL12	TWIST1	UBAP2L	UBQLN2	UGT2B17
TRIQK	TSC22D2	TSSK2	TTL2	TWIST2	UBASH3A	UBQLN3	UGT2B28
TRIR	TSC22D3	TSSK3	TTL3	TWISTNB	UBASH3B	UBQLN4	UGT2B4
TRIT1	TSC22D4	TSSK4	TTL4	TWNK	UBB	UBQLNL	UGT2B7
TRMO	TSEN15	TSSK6	TTL5	TWSG1	UBC	UBR1	UGT3A1
TRMT1	TSEN2	TST	TTL6	TXK	UBD	UBR2	UGT3A2
TRMT10A	TSEN34	TSTA3	TTL7	TXLNA	UBE2A	UBR3	UGT8
TRMT10B	TSEN54	TSTD1	TTL8	TXLNB	UBE2B	UBR4	UHMK1
TRMT10C	TSFM	TSTD2	TTL9	TXLNG	UBE2C	UBR5	UHRF1
TRMT11	TSG101	TSTD3	TTN	TXN	UBE2D1	UBR7	UHRF1BP1
TRMT112	TSGA10	TTBK1	TPA	TXN2	UBE2D2	UBTD1	UHRF1BP1L
TRMT12	TSGA10P	TTBK2	TPAL	TXNDC11	UBE2D3	UBTD2	UHRF2
TRMT13	TSGA13	TTC1	TTR	TXNDC12	UBE2D4	UBTF	UIMC1
TRMT1L	TSHB	TTC12	TTYH1	TXNDC15	UBE2E1	UBTFL1	ULBP1
TRMT2A	TSHR	TTC13	TTYH2	TXNDC16	UBE2E2	UBXN1	ULBP2
TRMT2B	TSHZ1	TTC14	TTYH3	TXNDC17	UBE2E3	UBXN10	ULBP3
TRMT44	TSHZ2	TTC16	TUB	TXNDC2	UBE2F	UBXN11	ULK1
TRMT5	TSHZ3	TTC17	TUBA1_3_4_L3	TXNDC5	UBE2G1	UBXN2A	ULK2
TRMT6	TSKS	TTC19	TUBA1_Family	TXNDC8	UBE2G2	UBXN2B	ULK3
TRMT61A	TSKU	TTC21A	TUBA1C	TXNDC9	UBE2H	UBXN4	ULK4
TRMT61B	TSLP	TTC21B	TUBA3C	TXNIP	UBE2I	UBXN6	UMAD1
TRMT9B	TSN	TTC22	TUBA3D	TXNL1	UBE2J1	UBXN7	UMOD
TRMU	TSNARE1	TTC23	TUBA4A	TXNL4A	UBE2J2	UBXN8	UMODL1
TRNAU1AP	TSNAX	TTC23L	TUBA4B	TXNL4B	UBE2K	UCHL1	UMPS
TRNP1	TSNAXIP1	TTC24	TUBA8	TXNRD1	UBE2L3	UCHL3	UNC119
TRNT1	TSPAN1	TTC25	TUBAL3	TXNRD2	UBE2L5	UCHL5	UNC119B
TRO	TSPAN10	TTC26	TUBB	TXNRD3	UBE2L6	UCK1	UNC13A
TROAP	TSPAN11	TTC27	TUBB1	TYK2	UBE2M	UCK2	UNC13B
TROVE2	TSPAN12	TTC28	TUBB2A	TYMP	UBE2N	UCKL1	UNC13C

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UNC13D	US01	USPL1	VDR	VPS37A	WARS2	WDR60	WNK4
UNC45A	USP1	UST	VEGFA	VPS37B	WAS	WDR61	WNT1
UNC45B	USP10	UTF1	VEGFB	VPS37C	WASF1	WDR62	WNT10A
UNC50	USP11	UTP11	VEGFC	VPS37D	WASF2	WDR63	WNT10B
UNC5A	USP12	UTP14A	VEGFD	VPS39	WASF3	WDR64	WNT11
UNC5B	USP13	UTP14C	VENTX	VPS41	WASHC1	WDR66	WNT16
UNC5C	USP14	UTP15	VEPH1	VPS45	WASHC2A_WASHC2C	WDR7	WNT2
UNC5CL	USP15	UTP18	VEZF1	VPS4A	WASHC3	WDR70	WNT2B
UNC5D	USP16	UTP20	VEZT	VPS4B	WASHC4	WDR72	WNT3
UNC79	USP17L_Family	UTP23	VG	VPS50	WASHC5	WDR73	WNT3A
UNC80	USP17L_Family_T2	UTP25	VGLL1	VPS51	WASL	WDR74	WNT4
UNC93A	USP17L_Family_T3	UTP3	VGLL2	VPS52	WBP1	WDR75	WNT5A
UNC93B1	USP17L_Family_T4	UTP4	VGLL3	VPS53	WBP11	WDR76	WNT5B
UNCX	USP17L_Family_T5	UTP6	VGLL4	VPS54	WBP1L	WDR77	WNT6
UNG	USP17L1	UTRN	VHL	VPS72	WBP2	WDR78	WNT7A
UNK	USP17L10	UTS2	VHLL	VPS8	WBP2NL	WDR81	WNT7B
UNKL	USP18	UTS2B	VIL1	VPS9D1	WBP4	WDR82	WNT8A
UPB1	USP19	UTS2R	VILL	VRK1	WDCP	WDR83	WNT8B
UPF1	USP2	UTY	VIM	VRK2	WDFY1	WDR830S	WNT9A
UPF2	USP20	UVRAG	VIP	VRK3	WDFY2	WDR86	WNT9B
UPF3A	USP21	UVSSA	VIPAS39	VRTN	WDFY3	WDR87	WRAP53
UPF3B	USP22	UXS1	VIPR1	VSIG1	WDFY4	WDR88	WRAP73
UPK1A	USP24	UXT	VIPR2	VSIG10	WDHD1	WDR89	WRN
UPK1B	USP25	VAC14	VIRMA	VSIG10L	WDPCP	WDR90	WRNIP1
UPK2	USP26	VAMP1	VIT	VSIG10L2	WDR1	WDR91	WSB1
UPK3A	USP27X	VAMP2	VKORC1	VSIG2	WDR11	WDR92	WSB2
UPK3B	USP28	VAMP3	VKORC1L1	VSIG4	WDR12	WDR93	WSCD1
UPK3BL1_2	USP29	VAMP4	VLDLR	VSIG8	WDR13	WDR97	WSCD2
UPP1	USP3	VAMP5	VMA21	VSIR	WDR17	WDSUB1	WT1
UPP2	USP30	VAMP7	VMAC	VSNL1	WDR18	WDTC1	WTAP
UPRT	USP31	VAMP8	VMO1	VSTM1	WDR19	WDYHV1	WTIP
UQCC1	USP32	VANGL1	VMP1	VSTM2A	WDR20	WEE1	WWC1
UQCC2	USP33	VANGL2	VN1R1	VSTM2B	WDR24	WEE2	WWC2
UQCC3	USP34	VAPA	VN1R2	VSTM2L	WDR25	WFDC1	WWC3
UQCR10	USP35	VAPB	VN1R3	VSTM4	WDR26	WFDC10A	WWOX
UQCR11	USP36	VARS1	VN1R4	VSTM5	WDR27	WFDC10B	WWP1
UQCRB	USP37	VARS2	VN1R5	VSX1	WDR3	WFDC11	WWP2
UQCRC1	USP38	VASH1	VNN1	VSX2	WDR31	WFDC12	WWTR1
UQCRC2	USP39	VASH2	VNN2	VT A1	WDR33	WFDC13	XAB2
UQCRFS1	USP4	VASN	VNN3	VTGN1	WDR34	WFDC2	XAF1
UQCRH_UQCRHL	USP40	VASP	VOPP1	VTI1A	WDR35	WFDC3	XAGE1A_XAGE1B
UQCRQ	USP41	VAT1	VPREB1	VTI1B	WDR36	WFDC5	XAGE2
URAD	USP42	VAT1L	VPREB3	VTN	WDR37	WFDC6	XAGE3
URB1	USP43	VAV1	VPS11	VWA1	WDR38	WFDC8	XAGE5
URB2	USP44	VAV2	VPS13A	VWA2	WDR4	WFDC9	XBP1
URGCP	USP45	VAV3	VPS13B	VWA3A	WDR41	WFIKKN1	XCL1
URGCP_URGCP-MRPS24	USP46	VAX1	VPS13C	VWA3B	WDR43	WFIKKN2	XCL1_XCL2
URI1	USP47	VAX2	VPST3D	VWA5A	WDR44	WFS1	XCR1
URM1	USP48	VBP1	VPS16	VWA5B1	WDR45	WHAMM	XDH
UROC1	USP49	VCAM1	VPS18	VWA5B2	WDR45B	WHRN	XG
UROD	USP5	VCAN	VPS25	VWA7	WDR46	WIF1	XIAP
UROS	USP50	VCL	VPS26A	VWA8	WDR47	WIPF1	XIRP1
USB1	USP51	VCP	VPS26B	VWC2	WDR48	WIPF2	XIRP2
USE1	USP53	VCPPI1	VPS26C	VWC2L	WDR49	WIPF3	XK
USF1	USP54	VCPKMT	VPS28	VWCE	WDR5	WIPI1	XKR3
USF2	USP6	VCX	VPS29	VWDE	WDR53	WIPI2	XKR4
USF3	USP6NL	VCX_Family	VPS33A	VWF	WDR54	WIZ	XKR5
USH1C	USP7	VCY_VCY1B	VPS33B	VXN	WDR55	WLS	XKR6
USH1G	USP8	VDAC1_VDAC3	VPS35	WAC	WDR59	WNK1	XKR7
USH2A	USP9X	VDAC2	VPS35L	WAPL	WDR5B	WNK2	XKR8
USHBP1	USP9Y	VDAC3	VPS36	WARS1	WDR6	WNK3	XKR9

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# Probe List

## HTG Transcriptome Panel



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Continued

XKRX	YTHDC2	ZBTB48	ZDHH18	ZFYVE21	ZNF132	ZNF234	ZNF337
XKRY_XKRY2	YTHDF1	ZBTB49	ZDHH19	ZFYVE26	ZNF133	ZNF235	ZNF33A
XPA	YTHDF2	ZBTB5	ZDHH2	ZFYVE27	ZNF134	ZNF236	ZNF33B
XPC	YTHDF3	ZBTB6	ZDHH20	ZFYVE28	ZNF135	ZNF239	ZNF34
XPNPEP1	YWHAB	ZBTB7A	ZDHH21	ZFYVE9	ZNF136	ZNF24	ZNF341
XPNPEP2	YWHAE	ZBTB7B	ZDHH22	ZG16	ZNF138_ZNF723	ZNF248	ZNF343
XPNPEP3	YWHAG	ZBTB7C	ZDHH23	ZG16B	ZNF14	ZNF25	ZNF345
XPO1	YWHAH	ZBTB8A	ZDHH24	ZGLP1	ZNF140	ZNF250	ZNF346
XPO4	YWHAQ	ZBTB8B	ZDHH3	ZGPAT	ZNF141	ZNF251	ZNF347
XPO5	YWHAZ	ZBTB80S	ZDHH4	ZGRF1	ZNF142	ZNF253	ZNF35
XPO6	YY1	ZBTB9	ZDHH5	ZHX1	ZNF143	ZNF254	ZNF350
XPOT	YY1AP1	ZC2HC1A	ZDHH6	ZHX1-C8orf76	ZNF146	ZNF256	ZNF354A
XPR1	YY2	ZC2HC1B	ZDHH7	ZHX2	ZNF148	ZNF257	ZNF354B
XRCC1	ZACN	ZC2HC1C	ZDHH8	ZHX3	ZNF154	ZNF26	ZNF354C
XRCC2	ZADH2	ZC3H10	ZDHH9	ZIC1	ZNF155	ZNF260	ZNF358
XRCC3	ZAN	ZC3H11A	ZEB1	ZIC2	ZNF157	ZNF263	ZNF362
XRCC4	ZAP70	ZC3H11A_ZC3H11B	ZEB2	ZIC3	ZNF16	ZNF264	ZNF365
XRCC5	ZAR1	ZC3H12A	ZER1	ZIC4	ZNF160	ZNF266	ZNF366
XRCC6	ZAR1L	ZC3H12B	ZFAND1	ZIC5	ZNF165	ZNF267	ZNF367
XRN1	ZBBX	ZC3H12C	ZFAND2A	ZIK1	ZNF169	ZNF268	ZNF37A
XRN2	ZBED1_MDH1B	ZC3H12D	ZFAND2B	ZIM2	ZNF17	ZNF273	ZNF382
XRR1	ZBED2	ZC3H13	ZFAND3	ZIM3	ZNF174	ZNF274	ZNF383
XXYLT1	ZBED3	ZC3H14	ZFAND4	ZKSCAN1	ZNF175	ZNF275	ZNF384
XYLB	ZBED4	ZC3H15	ZFAND5	ZKSCAN2	ZNF177	ZNF276	ZNF385A
XYLT1	ZBED5	ZC3H18	ZFAND6	ZKSCAN3	ZNF18	ZNF277	ZNF385B
XYLT2	ZBED6	ZC3H3	ZFAT	ZKSCAN4	ZNF180	ZNF278	ZNF385C
YAE1	ZBED6CL	ZC3H4	ZFC3H1	ZKSCAN5	ZNF181	ZNF280A	ZNF385D
YAF2	ZBED8	ZC3H6	ZFH2	ZKSCAN7	ZNF182	ZNF280B	ZNF391
YAP1	ZBED9	ZC3H7A	ZFH3	ZKSCAN8	ZNF184	ZNF280C	ZNF394
YARS1	ZBP1	ZC3H7B	ZFH4	ZMAT1	ZNF185	ZNF280D	ZNF395
YARS2	ZBTB1	ZC3H8	ZFP1	ZMAT2	ZNF189	ZNF281	ZNF396
YBEY	ZBTB10	ZC3HAV1	ZFP14	ZMAT3	ZNF19	ZNF282	ZNF397
YBX1	ZBTB11	ZC3HAV1L	ZFP2	ZMAT4	ZNF195	ZNF283	ZNF398
YBX2	ZBTB12	ZC3HC1	ZFP28	ZMAT5	ZNF197	ZNF284	ZNF404
YBX3	ZBTB14	ZC4H2	ZFP3	ZMI21	ZNF2	ZNF285	ZNF407
YDJC	ZBTB16	ZCCHC10	ZFP30	ZMI22	ZNF20	ZNF286A	ZNF408
YEATS2	ZBTB17	ZCCHC12	ZFP36	ZMPSTE24	ZNF200	ZNF287	ZNF41
YEATS4	ZBTB18	ZCCHC13	ZFP36L1	ZMYM1	ZNF202	ZNF292	ZNF410
YES1	ZBTB2	ZCCHC14	ZFP36L2	ZMYM2	ZNF205	ZNF296	ZNF414
YIF1A	ZBTB20	ZCCHC17	ZFP37	ZMYM3	ZNF207	ZNF3	ZNF415
YIF1B	ZBTB21	ZCCHC18	ZFP41	ZMYM4	ZNF208	ZNF30	ZNF416
YIPF1	ZBTB22	ZCCHC2	ZFP42	ZMYM5	ZNF211	ZNF300	ZNF417
YIPF2	ZBTB24	ZCCHC24	ZFP57	ZMYM6	ZNF212	ZNF302	ZNF418
YIPF3	ZBTB25	ZCCHC3	ZFP62	ZMYND10	ZNF213	ZNF304	ZNF419
YIPF4	ZBTB26	ZCCHC4	ZFP64	ZMYND11	ZNF214	ZNF311	ZNF420
YIPF5	ZBTB3	ZCCHC7	ZFP69	ZMYND12	ZNF215	ZNF316	ZNF423
YIPF6	ZBTB32	ZCCHC8	ZFP69B	ZMYND15	ZNF217	ZNF317	ZNF425
YIPF7	ZBTB33	ZCCHC9	ZFP82	ZMYND19	ZNF219	ZNF318	ZNF426
YJEFN3	ZBTB34	ZCRB1	ZFP90	ZMYND8	ZNF22	ZNF319	ZNF428
YJU2	ZBTB37	ZCWPW1	ZFP91	ZNF10	ZNF221	ZNF32	ZNF429
YKT6	ZBTB38	ZCWPW2	ZFP92	ZNF100	ZNF222	ZNF320	ZNF43
YLPM1	ZBTB39	ZDBF2	ZFPL1	ZNF101	ZNF223	ZNF322	ZNF430
YME1L1	ZBTB4	ZDHH1	ZFPM1	ZNF106	ZNF224	ZNF324	ZNF431
YOD1	ZBTB40	ZDHH11	ZFPM2	ZNF107	ZNF225	ZNF324B	ZNF432
YPEL1	ZBTB41	ZDHH11B	ZFR	ZNF112	ZNF226	ZNF326	ZNF433
YPEL2	ZBTB42	ZDHH12	ZFR2	ZNF114	ZNF227	ZNF329	ZNF436
YPEL3	ZBTB43	ZDHH13	ZFX	ZNF117	ZNF229	ZNF330	ZNF438
YPEL4	ZBTB44	ZDHH14	ZFY	ZNF12	ZNF23	ZNF331	ZNF439
YPEL5	ZBTB45	ZDHH15	ZFYVE1	ZNF121	ZNF230	ZNF333	ZNF44
YRDC	ZBTB46	ZDHH16	ZFYVE16	ZNF124	ZNF232	ZNF334	ZNF440
YTHDC1	ZBTB47	ZDHH17	ZFYVE19	ZNF131	ZNF233	ZNF335	ZNF441

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Continued

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ZNF442	ZNF518A	ZNF574	ZNF629	ZNF7	ZNF765	ZNF830	ZPLD1
ZNF443	ZNF518B	ZNF575	ZNF630	ZNF70	ZNF765-ZNF761	ZNF831	ZPR1
ZNF444	ZNF519	ZNF576	ZNF638	ZNF700	ZNF766	ZNF835	ZRANB1
ZNF445	ZNF521	ZNF577	ZNF639	ZNF701	ZNF768	ZNF836	ZRANB2
ZNF446	ZNF524	ZNF578	ZNF641	ZNF703	ZNF77	ZNF837	ZRANB3
ZNF449	ZNF525	ZNF579	ZNF644	ZNF704	ZNF770	ZNF839	ZRSR2
ZNF45	ZNF526	ZNF580	ZNF646	ZNF705_Family	ZNF771	ZNF84	ZSCAN1
ZNF451	ZNF527	ZNF581	ZNF648	ZNF705A	ZNF772	ZNF841	ZSCAN10
ZNF454	ZNF528	ZNF582	ZNF649	ZNF705B_ZNF705G	ZNF773	ZNF843	ZSCAN12
ZNF460	ZNF529	ZNF583	ZNF652	ZNF705G	ZNF774	ZNF844	ZSCAN16
ZNF461	ZNF530	ZNF584	ZNF653	ZNF706	ZNF775	ZNF846	ZSCAN18
ZNF462	ZNF532	ZNF585A	ZNF654	ZNF707	ZNF776	ZNF85	ZSCAN2
ZNF467	ZNF534	ZNF585B	ZNF655	ZNF708	ZNF777	ZNF850	ZSCAN20
ZNF468	ZNF536	ZNF586	ZNF658	ZNF709	ZNF778	ZNF852	ZSCAN21
ZNF469	ZNF540	ZNF587	ZNF66_ZNF69	ZNF71	ZNF780A	ZNF853	ZSCAN22
ZNF470	ZNF541	ZNF587B	ZNF660	ZNF710	ZNF780B	ZNF860	ZSCAN23
ZNF471	ZNF543	ZNF589	ZNF660-ZNF197	ZNF711	ZNF781	ZNF862	ZSCAN25
ZNF473	ZNF544	ZNF592	ZNF662	ZNF713	ZNF782	ZNF865	ZSCAN26
ZNF474	ZNF546	ZNF593	ZNF664	ZNF714	ZNF783	ZNF875	ZSCAN29
ZNF479	ZNF547	ZNF594	ZNF664-RFLNA	ZNF716	ZNF784	ZNF878	ZSCAN30
ZNF48	ZNF548	ZNF595	ZNF665	ZNF717	ZNF785	ZNF879_T02	ZSCAN31
ZNF480	ZNF549	ZNF596	ZNF667	ZNF718	ZNF786	ZNF880_T02	ZSCAN32
ZNF483	ZNF550	ZNF597	ZNF668	ZNF720	ZNF787	ZNF883	ZSCAN4
ZNF484	ZNF551	ZNF598	ZNF669	ZNF721	ZNF788P	ZNF888	ZSCAN5A
ZNF485	ZNF552	ZNF599	ZNF670	ZNF723	ZNF789	ZNF891	ZSCAN5B
ZNF486	ZNF554	ZNF600_ZNF808	ZNF671	ZNF724	ZNF79	ZNF90	ZSCAN5C
ZNF487	ZNF555	ZNF605	ZNF672	ZNF726	ZNF790	ZNF91	ZSCAN9
ZNF488	ZNF556	ZNF606	ZNF674	ZNF727	ZNF791	ZNF92	ZSWIM1
ZNF490	ZNF557	ZNF607	ZNF675	ZNF728	ZNF792	ZNF93	ZSWIM2
ZNF491	ZNF558	ZNF608	ZNF676	ZNF729	ZNF793	ZNF98_ZNF90	ZSWIM3
ZNF492	ZNF559	ZNF609	ZNF677	ZNF730	ZNF799	ZNF99	ZSWIM4
ZNF493	ZNF559-ZNF177	ZNF610	ZNF678	ZNF732	ZNF8	ZNF91	ZSWIM5
ZNF496	ZNF56	ZNF611	ZNF679	ZNF735	ZNF80	ZNF99	ZSWIM6
ZNF497	ZNF560	ZNF613	ZNF680	ZNF736	ZNF800	ZNF99	ZSWIM7
ZNF500	ZNF561	ZNF614	ZNF681	ZNF737	ZNF804A	ZNF99	ZSWIM8
ZNF501	ZNF562	ZNF615	ZNF682	ZNF738	ZNF804B	ZNF99	ZSWIM9
ZNF502	ZNF563	ZNF616	ZNF683	ZNF74	ZNF805	ZNRD1_T02	ZUP1
ZNF503	ZNF564	ZNF618	ZNF684	ZNF740	ZNF806	ZNRD2	ZW10
ZNF506	ZNF565	ZNF619	ZNF687	ZNF746	ZNF81	ZNRF1	ZWILCH
ZNF507	ZNF566	ZNF620	ZNF688	ZNF747	ZNF813	ZNRF2	ZWINT
ZNF510	ZNF567	ZNF621	ZNF689	ZNF749	ZNF814	ZNRF3	ZXDA
ZNF511	ZNF568	ZNF622	ZNF69	ZNF750	ZNF816	ZNRF4	ZXDB
ZNF512	ZNF569	ZNF623	ZNF691	ZNF75A	ZNF816-ZNF321P	ZP1	ZXDC
ZNF512B	ZNF57	ZNF624	ZNF692	ZNF75D	ZNF821	ZP2	ZYG11A
ZNF513	ZNF570	ZNF625	ZNF695	ZNF76	ZNF823	ZP3	ZYG11B
ZNF514	ZNF571	ZNF626	ZNF696	ZNF761	ZNF827	ZP4	ZYX
ZNF516	ZNF572	ZNF627	ZNF697	ZNF763	ZNF829	ZPBP	ZZEF1
ZNF517	ZNF573	ZNF628	ZNF699	ZNF764	ZNF83	ZPBP2	ZZZ3

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Control Probes

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ERCC-00002	ERCC-00054	ERCC-00104	ERCC-00160	GDNA-021	NC-027	NC-055	NC-083
ERCC-00003	ERCC-00057	ERCC-00108	ERCC-00162	GDNA-022	NC-028	NC-056	NC-084
ERCC-00004	ERCC-00058	ERCC-00109	ERCC-00163	NC-001	NC-029	NC-057	NC-085
ERCC-00009	ERCC-00059	ERCC-00111	ERCC-00164	NC-002	NC-030	NC-058	NC-086
ERCC-00012	ERCC-00060	ERCC-00112	ERCC-00165	NC-003	NC-031	NC-059	NC-087
ERCC-00013	ERCC-00061	ERCC-00113	ERCC-00168	NC-004	NC-032	NC-060	NC-088
ERCC-00014	ERCC-00062	ERCC-00116	ERCC-00170	NC-005	NC-033	NC-061	NC-089
ERCC-00016	ERCC-00067	ERCC-00117	ERCC-00171	NC-006	NC-034	NC-062	NC-090
ERCC-00017	ERCC-00069	ERCC-00120	GDNA-001	NC-007	NC-035	NC-063	NC-091
ERCC-00019	ERCC-00071	ERCC-00123	GDNA-002	NC-008	NC-036	NC-064	NC-092
ERCC-00022	ERCC-00073	ERCC-00126	GDNA-003	NC-009	NC-037	NC-065	NC-093
ERCC-00024	ERCC-00074	ERCC-00130	GDNA-004	NC-010	NC-038	NC-066	NC-094
ERCC-00025	ERCC-00075	ERCC-00131	GDNA-005	NC-011	NC-039	NC-067	NC-095
ERCC-00028	ERCC-00076	ERCC-00134	GDNA-006	NC-012	NC-040	NC-068	NC-096
ERCC-00031	ERCC-00077	ERCC-00136	GDNA-007	NC-013	NC-041	NC-069	NC-097
ERCC-00033	ERCC-00078	ERCC-00137	GDNA-008	NC-014	NC-042	NC-070	NC-098
ERCC-00034	ERCC-00079	ERCC-00138	GDNA-009	NC-015	NC-043	NC-071	NC-099
ERCC-00035	ERCC-00081	ERCC-00142	GDNA-010	NC-016	NC-044	NC-072	NC-100
ERCC-00039	ERCC-00083	ERCC-00143	GDNA-011	NC-017	NC-045	NC-073	POS-001
ERCC-00040	ERCC-00084	ERCC-00144	GDNA-012	NC-018	NC-046	NC-074	POS-002
ERCC-00041	ERCC-00085	ERCC-00145	GDNA-013	NC-019	NC-047	NC-075	POS-003
ERCC-00042	ERCC-00086	ERCC-00147	GDNA-014	NC-020	NC-048	NC-076	POS-004
ERCC-00043	ERCC-00092	ERCC-00148	GDNA-015	NC-021	NC-049	NC-077	
ERCC-00044	ERCC-00095	ERCC-00150	GDNA-016	NC-022	NC-050	NC-078	
ERCC-00046	ERCC-00096	ERCC-00154	GDNA-017	NC-023	NC-051	NC-079	
ERCC-00048	ERCC-00097	ERCC-00156	GDNA-018	NC-024	NC-052	NC-080	
ERCC-00051	ERCC-00098	ERCC-00157	GDNA-019	NC-025	NC-053	NC-081	
ERCC-00053	ERCC-00099	ERCC-00158	GDNA-020	NC-026	NC-054	NC-082	