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A2M	ACACA	ADA	ADRB1	AKAP2	ALPL	AP3B2	ARHGAP6	ATIC	AVPR2	BAZ1B
A4GALT	ACACB	ADAM10	ADRB2	AKAP9	ALS2	AP3D1	ARHGAP9	ATL1	AXIN1	BBS1
A4GNT	ACAD10	ADAM12	ADRB3	AKR1B1	ALS2CL	AP4B1	ARHGDI1A	ATM	AXIN2	BBS10
AAAS	ACAD11	ADAM17	ADRBK2	AKR1C2	ALX1	AP4E1	ARHGEF10	ATN1	AXL	BBS12
AADAC	ACAD8	ADAM19	ADSL	AKR1C3	ALX3	AP4M1	ARHGEF12	ATOH7	B2M	BBS2
AADACL2	ACAD9	ADAM22	ADTRP	AKR1C4	ALX4	AP4S1	ARHGEF6	ATP10A	B3GALNT1	BBS4
AAGAB	ACADL	ADAM23	AFF2	AKR1D1	AMACR	AP5Z1	ARHGEF7	ATP10D	B3GALNT2	BBS5
AANAT	ACADM	ADAM33	AFF3	AKR7A2	AMBN	APAF1	ARHGEF9	ATP13A2	B3GALT1	BBS7
AARS	ACADS	ADAM7	AFG3L2	AKT1	AMELX	APBA2	ARID1A	ATP13A4	B3GALT2	BBS9
AARS2	ACADSB	ADAM9	AFP	AKT2	AMELY	APBB1P	ARID1B	ATP1A2	B3GALT5	BCAM
AASS	ACADVL	ADAMTS1	AGA	AKT3	AMER1	APBB2	ARID4A	ATP1A3	B3GALT6	BCAT2
ABAT	ACAN	ADAMTS10	AGBL1	ALAD	AMH	APC	ARID4B	ATP1B1	B3GALTL	BCHE
ABCA1	ACAT1	ADAMTS13	AGGF1	ALAS2	AMHR2	APCDD1	ARL13B	ATP2A1	B3GAT1	BCKDHA
ABCA10	ACAT2	ADAMTS17	AGK	ALB	AMN	APEX1	ARL14EP	ATP2A2	B3GAT2	BCKDHB
ABCA12	ACBD5	ADAMTS18	AGL	ALDH16A1	AMPD1	APOA1	ARL3	ATP2A3	B3GAT3	BCKDK
ABCA13	ACBD6	ADAMTS19	AGMO	ALDH18A1	AMPD3	APOA2	ARL6	ATP2B2	B3GNT1	BCL10
ABCA2	ACCS	ADAMTS2	AGO1	ALDH1A1	AMT	APOA4	ARMS2	ATP2B3	B3GNT2	BCL11A
ABCA3	ACE	ADAMTSL2	AGPAT2	ALDH1A2	ANG	APOA5	ARSA	ATP2B4	B3GNT3	BCL2
ABCA4	ACHE	ADAMTSL3	AGPS	ALDH2	ANGPTL3	APOB	ARSB	ATP2C1	B3GNT4	BCL2L1
ABCB1	ACLY	ADAMTSL4	AGRN	ALDH3A2	ANGPTL4	APOBEC1	ARSE	ATP5S1	B3GNT5	BCL2L11
ABCB11	ACO2	ADAR	AGRP	ALDH4A1	ANGPTL5	APOBEC3H	ART4	ATP6AP2	B3GNT6	BCL2L2-PABPN1
ABCB4	ACOX1	ADAR1	AGT	ALDH5A1	ANGPTL6	APOC4-APOC2	ARX	ATP6V0A2	B3GNT7	BCL6
ABCB6	ACP1	ADC	AGTPBP1	ALDH6A1	ANK1	APOD	AS3MT	ATP6V0A4	B3GNT8	BCL9
ABCB7	ACP2	ADCK3	AGTR1	ALDH7A1	ANK2	APOE	ASAH1	ATP6V1B1	B4GALNT1	BCMO1
ABCC1	ACP5	ADCY10	AGTR2	ALDOA	ANK3	APOH	ASB10	ATP7A	B4GALNT2	BCOR
ABCC11	ACSF3	ADCY3	AGXT	ALDOB	ANKH	APOL1	ASCC1	ATP7B	B4GALNT3	BCORL1
ABCC2	ACSL4	ADCY5	AGXT2	ALG1	ANKK1	APOL3	ASCC3	ATP8A2	B4GALNT4	BCR
ABCC3	ACSL5	ADCY6	AHCY	ALG12	ANKRD1	APP	ASCL1	ATP8B1	B4GALT1	BCS1L
ABCC4	ACSL6	ADCY9	AH1	ALG13	ANKRD11	APRT	ASIC3	ATPAF2	B4GALT2	BDNF
ABCC6	ACSM3	ADD1	AHR	ALG14	ANKRD26	APTX	ASIP	ATR	B4GALT3	BEAN1
ABCC8	ACTA1	ADD2	AHRR	ALG2	ANKS1A	AQP1	ASL	ATRNL1	B4GALT4	BEST1
ABCC9	ACTA2	ADH1B	AHSG	ALG3	ANKS6	AQP2	ASMT	ATRX	B4GALT5	BFSP1
ABCD1	ACTB	ADH1C	AHSP	ALG5	ANO10	AQP3	ASNS	ATXN1	B4GALT6	BFSP2
ABCD3	ACTC1	ADH4	AICDA	ALG6	ANO3	AQP4	ASPA	ATXN10	B4GALT7	BGN
ABCD4	ACTG1	ADH7	AIFM1	ALG8	ANO5	AQP5	ASPM	ATXN2	B9D1	BHLHA9
ABCG2	ACTN2	ADIPOQ	AIMP1	ALG9	ANO6	AQP7	ASPN	ATXN3	B9D2	BHLHE41
ABCG5	ACTN4	ADIPOR1	AIP	ALK	ANO7	AR	ASPRV1	ATXN3L	BAAT	BICC1
ABCG8	ACVR1	ADK	AIPL1	ALMS1	ANTXR1	ARF4	ASS1	ATXN7	BAG3	BIN1
ABHD12	ACVR1B	ADM	AIRE	ALOX12	ANTXR2	ARFGEF2	ASXL1	AUH	BANF1	BLK
ABHD5	ACVR1C	ADORA2A	AK1	ALOX12B	ANXA5	ARG1	ATCAY	AURKA	BANK1	BLM
ABI3BP	ACVR2A	ADRA1A	AK2	ALOX15	AOAH	ARHGAP18	ATF3	AURKC	BAP1	BLMH
ABL1	ACVR2B	ADRA2A	AK7	ALOX5	AP1S1	ARHGAP24	ATF6	AUTS2	BARD1	BLNK
ABL2	ACVRL1	ADRA2B	AK8	ALOX5AP	AP1S2	ARHGAP26	ATG16L1	AVP	BARX2	BLOC1S5
ABO	ACY1	ADRA2C	AKAP10	ALOXE3	AP3B1	ARHGAP31	ATG7	AVPR1A	BAX	BLOC1S6



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BLVRA	C1QC	CACNG2	CBR3	CD27	CDKL3	CHD2	CHSY3	CNBP	COL5A1	CREB1	CTC1
BMI1	C1R	CACNG3	CBS	CD2AP	CDKL5	CHD3	CHUK	CNGA1	COL5A2	CREB3L3	CTDP1
BMP1	C1S	CACNG4	CBX2	CD320	CDKN1A	CHD6	CIB2	CNGA3	COL6A1	CREBBP	CTF1
BMP15	C21orf91	CADM1	CBX4	CD36	CDKN1B	CHD7	CIC	CNGB1	COL6A2	CRELD1	CTGF
BMP2	C2CD5	CADPS2	CBY1	CD38	CDKN1C	CHD8	CIDEC	CNGB3	COL6A3	CRISP2	CTH
BMP4	C2orf42	CALCA	CC2D1A	CD3D	CDKN2A	CHEK2	CIITA	CNKSR1	COL7A1	CRKL	CTHRC1
BMP5	C2orf71	CALCR	CC2D2A	CD3E	CDKN2B	CHGA	CILP	CNKSR2	COL8A2	CRLF1	CTLA4
BMP7	C3	CALCRL	CCBE1	CD3G	CDKN2C	CHI3L1	CIRH1A	CNNM2	COL9A1	CRP	CTNNA3
BMPER	C3AR1	CALHM1	CCDC103	CD4	CDON	CHIA	CISD2	CNNM4	COL9A2	CRTAP	CTNNA1
BMPR1A	C4orf19	CALM1	CCDC107	CD40	CDT1	CHIC2	CISH	CNOT4	COL9A3	CRX	CTNND2
BMPR1B	C4orf26	CALM3	CCDC11	CD40LG	CDX2	CHIT1	CITED2	CNPY3	COLEC11	CRYAA	CTNS
BMPR2	C5	CALR	CCDC127	CD44	CDYL	CHKB	CKM	CNR1	COLQ	CRYAB	CTRC
BNC2	C5AR2	CALR3	CCDC14	CD46	CEACAM16	CHL1	CLCF1	CNR2	COMMD1	CRYBA1	CTSA
BOC	C5orf42	CAMK4	CCDC22	CD5	CEBPA	CHM	CLCN1	CNTF	COMP	CRYBA4	CTSB
BOLA3	C6	CAMKMT	CCDC28B	CD55	CEBPE	CHMP1A	CLCN2	CNTN1	COMT	CRYBB1	CTSC
BPGM	C7	CAMSAP2	CCDC39	CD59	CECR2	CHMP2B	CLCN3	CNTN4	COQ2	CRYBB2	CTSD
BRAF	C7orf10	CAMTA1	CCDC40	CD74	CEL	CHMP4B	CLCN4	CNTNAP2	COQ5	CRYBB3	CTSG
BRAT1	C8A	CANT1	CCDC50	CD79A	CELSR1	CHN1	CLCN5	CNTNAP4	COQ6	CRYGA	CTSK
BRCA1	C8B	CAPN10	CCDC66	CD79B	CELSR2	CHPF	CLCN6	COA5	COQ9	CRYGB	CTTNBP2
BRCA2	C8orf37	CAPN3	CCDC78	CD80	CENPJ	CHPF2	CLCN7	COCH	CORIN	CRYGC	CUBN
BRCC3	C9	CARD11	CCDC8	CD81	CEP135	CHRDL1	CLCNKA	COG1	CORO1A	CRYGD	CUEDC1
BRD1	C9orf72	CARD14	CCDC88C	CD86	CEP152	CHRDL1	CLCNKB	COG2	COX10	CRYGS	CUL2
BRD2	CA1	CARD9	CCKAR	CD8A	CEP164	CHRM1	CLDN1	COG3	COX14	CRYM	CUL3
BRF1	CA12	CARTPT	CCKBR	CD96	CEP290	CHRM2	CLDN14	COG4	COX15	CSAG1	CUL4B
BRIP1	CA2	CASC5	CCL11	CDA	CEP41	CHRM3	CLDN16	COG5	COX4I1	CSDE1	CUL5
BRSK2	CA4	CASK	CCL2	CDAN1	CEP57	CHRNA1	CLDN19	COG6	COX4I2	CSF1	CUL7
BRWD1	CA8	CASP1	CCL3	CDC42	CEP63	CHRNA2	CLEC10A	COG7	COX6B1	CSF1R	CX3CR1
BRWD3	CABIN1	CASP10	CCL5	CDC42BPB	CEP85L	CHRNA3	CLEC3B	COG8	COX7B	CSF2	CXCL12
BSCL2	CABP2	CASP12	CCM2	CD6	CERKL	CHRNA4	CLEC7A	COL10A1	CP	CSF2RA	CXCL5
BSG	CABP4	CASP2	CCND1	CDC73	CERS6	CHRNA5	CLIC2	COL11A1	CPA6	CSF2RB	CXCR1
BSND	CACNA1A	CASP8	CCR2	CDH1	CES1	CHRNA7	CLIP2	COL11A2	CPB2	CSF3R	CXCR4
BTBD9	CACNA1C	CASQ2	CCR3	CDH13	CES2	CHRNA9	CLK2	COL17A1	CPE	CSGALNACT1	CY5A
BTD	CACNA1D	CASR	CCR5	CDH15	CETP	CHRN1	CLMP	COL18A1	CPLX2	CSH1	CY5R3
BTK	CACNA1E	CAT	CCR7	CDH23	CFD	CHRN2	CLN3	COL1A1	CPN1	CSMD1	CY5R4
BUB1	CACNA1F	CATSPER1	CCT5	CDH3	CFH	CHRN4	CLN5	COL1A2	CPOX	CSMD3	CYBA
BUB1B	CACNA1G	CATSPER2	CD109	CDH5	CFHR1	CHRN5	CLN6	COL21A1	CPS1	CSNK1D	CYBB
C12orf57	CACNA1H	CATSPER3	CD151	CDHR1	CFHR5	CHRNA10	CLN8	COL2A1	CPT1A	CSNK1G1	CYBRD1
C15orf62	CACNA1S	CATSPER4	CD177	CDK16	CFI	CHRNA11	CLNG	COL3A1	CPT2	CSNK2A2	CYFIP1
C16orf58	CACNA2D1	CAV1	CD19	CDK4	CFL2	CHST14	CLPTM1	COL4A1	CPZ	CSR3	CYLD
C18orf8	CACNA2D2	CAV3	CD200	CDK5R1	CFP	CHST3	CLPTM1L	COL4A2	CR1	CST3	CYP11A1
C1GALT1	CACNA2D3	CBFB	CD207	CDK5RAP2	CFTR	CHST6	CLRN1	COL4A3	CR2	CST6	CYP11B1
C1GALT1C1	CACNA2D4	CBL	CD209	CDK6	CGB	CHST7	CLTCL1	COL4A4	CRADD	CSTA	CYP11B2
C1QA	CACNB2	CBLB	CD244	CDK7	CHAT	CHST8	CLU	COL4A5	CRB1	CSTB	CYP19A1
C1QB	CACNB4	CBR1	CD247	CDKAL1	CHD1L	CHSY1	CMPK1	COL4A6	CRBN	CSTF2T	CYP1A2



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CYP1B1	DBT	DIAPH2	DNAJC5	DSG1	EFEMP2	ENG	ESRRB	FAM126A	FCN2	FKTN	FOXN1	G6PC
CYP21A1P	DCAF17	DIAPH3	DNAJC6	DSG2	EFHC1	ENOX1	ETFA	FAM134B	FCN3	FLCN	FOXO1	G6PC2
CYP21A2	DCBLD1	DICER1	DNAL1	DSG3	EFHC2	ENPP1	ETFB	FAM161A	FDFT1	FLG	FOXP1	G6PC3
CYP24A1	DCC	DIP2A	DNASE1	DSG4	EFNA5	ENTPD1	ETFDH	FAM175A	FECH	FLI1	FOXP2	G6PD
CYP26B1	DCK	DIP2B	DNASE1L3	DSP	EFNB1	EOMES	ETHE1	FAM205A	FEM1A	FLNA	FOXP3	GAA
CYP26C1	DCLRE1C	DIP2C	DNASE2	DSPP	EFR3A	EP300	ETV4	FAM20A	FEM1B	FLNB	FOXRED1	GABARAPL1
CYP27A1	DCN	DIRC2	DNM1	DST	EFTUD2	EPAS1	ETV6	FAM20C	FERMT1	FLNC	FPGS	GABBR1
CYP27B1	DCTD	DIS3L2	DNM1L	DTNA	EGF	EPB41	EVC	FAM47B	FERMT3	FLOT1	FPR1	GABRA1
CYP2A13	DCTN1	DISC1	DNM2	DTNBP1	EGFR	EPB41L1	EVC2	FAM58A	FEZF2	FLT1	FRAS1	GABRA2
CYP2A6	DCX	DISP1	DNMT1	DUOX2	EGLN1	EPB41L2	EVI5	FAM83H	FFAR1	FLT3	FREM1	GABRA6
CYP2B6	DCXR	DKC1	DNMT3A	DUOX2	EGR2	EPB42	EWSR1	FAM8A1	FFAR4	FLT4	FREM2	GABRB3
CYP2C18	DDB2	DKK3	DNMT3B	DUX4	EHBP1	EPC2	EXO1	FAM91A1	FGA	FLVCR1	FREM3	GABRD
CYP2C19	DDC	DLAT	DNMT3L	DUX4L3	EHD2	EPCAM	EXO5	FAN1	FGB	FLVCR2	FRK	GABRG1
CYP2C8	DDHD1	DLC1	DOC2A	DVL2	EHHADH	EPHA2	EXOC4	FANCA	FGD1	FMN1	FRMD5	GABRG2
CYP2C9	DDHD2	DLD	DOCK3	DYM	EHMT1	EPHA3	EXOSC3	FANCB	FGD3	FMN2	FRMD7	GABRR2
CYP2D6	DDOST	DLEC1	DOCK4	DYNAP	EIF2AK3	EPHA5	EXPH5	FANCC	FGD4	FMO1	FRMPD4	GAD1
CYP2E1	DDR2	DLG2	DOCK6	DYNC1H1	EIF2B1	EPHA7	EXT1	FANCD2	FGF10	FMO2	FRY	GAD2
CYP2F1	DDRGRK1	DLG3	DOCK7	DYNC2H1	EIF2B2	EPHB2	EXT2	FANCE	FGF14	FMO3	FRZB	GADD45A
CYP2J2	DDX25	DLG4	DOCK8	DYRK1A	EIF2B3	EPHB6	EXTL1	FANCF	FGF2	FMO4	FSCB	GAK
CYP2R1	DDX3X	DLGAP3	DOCK9	DYSF	EIF2B4	EPHX1	EXTL2	FANCG	FGF23	FMO5	FSCN2	GAL3ST1
CYP2U1	DDX3Y	DLL1	DOK1	DYX1C1	EIF2B5	EPHX2	EXTL3	FANCI	FGF3	FMOD	FSHB	GAL3ST2
CYP3A4	DDX58	DLL3	DOK2	E2F1	EIF2D	EPM2A	EYA1	FANCL	FGF8	FMR1	Fshr	GAL3ST3
CYP3A5	DEAF1	DLX3	DOK5	E2F4	EIF2S3	EPO	EYA4	FANCM	FGF9	FMR1-AS1	FST	GAL3ST4
CYP3A7	DEF6	DLX5	DOK7	E2F5	EIF4E	EPOR	EYS	FARS2	FGFR1	FN1	FSTL1	GALC
CYP4A22	DEFB126	DLX6	DOLK	EARS2	EIF4G1	EPX	EZH2	FAS	FGFR2	FN3K	FTCD	GALE
CYP4F12	DES	DMC1	DOLPP1	EBAG9	EIF4H	ERAP1	F10	FASLG	FGFR3	FOLH1	FTHL17	GALK1
CYP4F2	DFNA5	DMD	DOT1L	EBF4	ELAC2	ERAP2	F11	FASN	FGFR4	FOLR1	FTO	GALNS
CYP4F22	DFNB31	DMGDH	DPAGT1	EBP	ELANE	ERBB2	F12	FASTKD2	FGFRL1	FOXA1	FTSJ1	GALNT11
CYP4F3	DFNB59	DMP1	DPCD	ECE1	ELF4	ERBB3	F13A1	FBLN1	FGG	FOXA2	FUCA1	GALNT12
CYP4V2	DGCR14	DMPK	DPM1	ECE2	ELK1	ERBB4	F13B	FBLN5	FH	FOXA3	FUS	GALNT13
CYP7A1	DGCR2	DMRT1	DPM2	ECI1	ELK3	ERCC1	F2	FBN1	FHIT	FOXC1	FUT1	GALNT14
CYP7B1	DGKD	DMXL1	DPM3	ECM1	ELMOD2	ERCC2	F2RL1	FBN2	FHL1	FOXC2	FUT2	GALNT18
CYR61	DGKE	DNAAF1	DPP6	ECM2	ELN	ERCC3	F5	FBP1	FHL2	FOXD3	FUT3	GALNT2
CYS1	DGUOK	DNAAF2	DPY19L2	ECSIT	ELOVL4	ERCC4	F7	FBXL6	FIG4	FOXE1	FUT6	GALNT3
D2HGDH	DHCR24	DNAAF3	DPYD	EDA	ELP2	ERCC5	F8	FBXO10	FIGLA	FOXE3	FUT7	GALNT5
DACH1	DHCR7	DNAH11	DPYS	EDA2R	ELP4	ERCC6	F9	FBXO11	FIP1L1	FOXF1	FUT8	GALNT6
DAD1	DHDDS	DNAH5	DRD1	EDAR	EMC4	ERCC8	FA2H	FBXO18	FKBP10	FOXF2	FUZ	GALNT7
DAG1	DHH	DNAH9	DRD2	EDARADD	EMD	ERLIN2	FAAH	FBXO7	FKBP14	FOXG1	FXN	GALNT8
DAO	DHODH	DNAI1	DRD3	EDN1	EME1	ERMAP	FAAH2	FBXW11	FKBP1A	FOXH1	FXYD2	GALNT9
DARC	DHRS4L1	DNAI2	DRD4	EDN3	EMG1	ERRF1	FABP1	FBXW4	FKBP4	FOXI1	FYCO1	GALNTL6
DARS2	DHTKD1	DNAJB2	DRD5	EDNRA	EMX1	ESCO2	FABP2	FBXW7	FKBP5	FOXJ1	FZD3	GALT
DAZ4	DHX37	DNAJB6	DSC2	EDNRB	EMX2	ESPN	FADD	FCER1G	FKBP6	FOXK1	FZD4	GAMT
DAZL	DIABLO	DNAJC19	DSC3	EFCAB5	EN2	ESR1	FAH	FCGR2A	FKBP8	FOXL2	FZD6	GAN
DBH	DIAPH1	DNAJC30	DSCAM	EFEMP1	ENAM	ESR2	FAM120A	FCGR2B	FKRP	FOXN1	FZD9	GAP43



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GARS	GHR	GNAI3	GPR179	GSTP1	HCN3	HLX	HPSE2	ID3	IL10RA	INS	ITPKC
GAS1	GHRH	GNAQ	GPR37	GSTT1	HCN4	HMBS	HR	ID4	IL10RB	INSL3	ITPR1
GAS2L2	GHRHR	GNAS	GPR56	GSTZ1	HCRT	HMCN1	HRAS	IDH1	IL11	INSL6	ITSN2
GATA1	GHRL	GNAT1	GPR98	POMGNT2 (GTDC2)	HCRTR2	HMGA2	HRG	IDH2	IL11RA	INSR	IVD
GATA2	GHSR	GNAT2	GPS1	GTF2H5	HDAC4	HMGCL	HSD11B1	IDH3B	IL12B	INVS	IYD
GATA3	GIF	GNB1L	GPSM2	GTF2I	HDAC6	HMGCR	HSD11B2	IDO1	IL12RB1	IQCB1	JAG1
GATA4	GIGYF2	GNB3	GPT	GTF2IRD1	HDAC8	HMGCS2	HSD17B10	IDS	IL12RB2	IQGAP2	JAG2
GATA5	GIMAP8	GNE	GRB10	GUCA1A	HDAC9	HMHA1	HSD17B3	IDUA	IL13	IQGAP3	JAK2
GATA6	GIP	GNM7	GREM1	GUCA1B	HDC	HMMR	HSD17B4	IER3IP1	IL17F	IQSEC2	JAK3
GATAD1	GIPC3	GNMT	GRHL1	GUCY2C	HDGFRP2	HMOX1	HSD3B1	IFIH1	IL17RA	IRAK3	JAM3
GATM	GIPR	GNPAT	GRHL2	GUCY2D	HDLBP	HMX1	HSD3B2	IFITM3	IL18RAP	IRAK4	JMJD1C
GBA	GIT1	GNPTAB	GRHPR	GUCY2F	HDX	HMX2	HSD3B7	IFITM5	IL1B	IRF1	JPH2
GBE1	GJA3	GNPTG	GRIA1	GUSB	HEATR2	HNF1A	HSF1	IFNAR1	IL1R1	IRF4	JPH3
GBGT1	GJA5	GNRH1	GRIA3	GYG1	HEPACAM	HNF1B	HSF4	IFNAR2	IL1RAPL1	IRF5	JRK
GC	GJA8	GNRHR	GRID1	GYG2	HEPH	HNF4A	HSP90AA1	IFNG	IL1RN	IRF6	JUN
GCDH	GJB1	GNS	GRID2	GYLTL1B	HERC1	HNMT	HSPA9	IFNGR1	IL20RB	IRF8	JUNB
GCGR	GJB2	GOLGA3	GRIK1	GYPA	HES7	HNRNPH3	HSPB1	IFNGR2	IL21R	IRGM	JUP
GCH1	GJB3	GOLGA5	GRIK2	GYPC	HESX1	HNRNPU	HSPB3	IFNL4	IL23R	IRS1	KAL1
GCK	GJB4	GON4L	GRIK4	GYPE	HEXA	HOGA1	HSPB6	IFRD1	IL2RA	IRS2	KALRN
GCKR	GJB6	GOPC	GRIN1	GYSL	HEXB	HOXA1	HSPB7	IFT122	IL2RG	IRS4	KANK1
GCLC	GJC2	GORAB	GRIN2A	GSY2	HEY1	HOXA10	HSPB8	IFT140	IL3	IRX4	KARS
GCLM	GJC3	GOSR2	GRIN2B	H6PD	HEY2	HOXA11	HSPG2	IFT172	IL31RA	IRX5	KAT2A
GCM2	GK	GOT1	GRIN3A	HABP2	HFE	HOXA13	HTN3	IFT43	IL36RN	ISCU	KAT6A
GCNT1	GLA	GP1BA	GRIPI	HACE1	HFE2	HOXA2	HTR1A	IFT80	IL4	ISL1	KAT6B
GCNT2	GLB1	GP6	GRK1	HADH	HGD	HOXA3	HTR1B	IFT88	IL4R	ISPD	KATNAL2
GDAP1	GLCC1	GP9	GRK4	HADHA	HGF	HOXA4	HTR2A	IGBP1	IL6	ITCH	KBTBD13
GDF1	GLDC	GPAM	GRM1	HADHB	HGSNAT	HOXB1	HTR2B	IGF1	IL6R	ITGA1	KCNA1
GDF3	GLE1	GPATCH8	GRM5	HAL	HIBCH	HOXB13	HTR2C	IGF1R	IL6ST	ITGA2	KCNA4
GDF5	GLI2	GPBAR1	GRM6	HAMP	HIF1A	HOXB6	HTR3A	IGF2	IL7R	ITGA2B	KCNA5
GDF6	GLI3	GPC3	GRM7	HAND1	HIGD2A	HOXB8	HTR3B	IGF2BP2	IL9R	ITGA3	KCNA6
GDF9	GLIS2	GPC4	GRN	HAND2	HINT1	HOXC13	HTR3C	IGF2R	ILDR1	ITGA6	KCNAB1
GD1	GLIS3	GPC6	GRPR	HAPLN1	HIP1	HOXD10	HTR7	IGFALS	ILK	ITGA7	KCNAB2
GDNF	GLMN	GPD1	GRXCR1	HARS	HIST1H2AE	HOXD13	HTRA1	IGFBP7	IMMP2L	ITGA9	KCNC3
GFAP	GLO1	GPD1L	GSC	HARS2	HIST3H3	HOXD4	HTRA2	IGHMBP2	IMPAD1	ITGA9	KCND2
GF1	GLP1R	GP2	GSE1	HAVCR1	HK1	HP	HTT	IGLL1	IMPDH1	ITGB1	KCND3
GF1B	GLRA1	GPHN	GSN	HAX1	HK2	HPCAL4	HUWE1	IGSF1	IMPDH2	ITGB2	KCNE1
GFM1	GLRB	GPI	GSPT2	HBB	HLA-A	HPD	HYAL1	IHH	IMPG2	ITGB3	KCNE1L
GFPT1	GLRX5	GPIHBP1	GSR	HBD	HLA-B	HPGD	HYDIN	IKBIP	INF2	ITGB4	KCNE2
GFRA1	GLUL	GPNUMB	GSS	HBE1	HLA-C	HPRT1	HYLS1	IKBKAP	ING1	ITGB6	KCNE3
GFRA2	GLYCTK	GPR1	GSTA2	HBM	HLA-DQA1	HPS1	IAPP	IKBKB	INHA	ITIH4	KCNE4
GGCX	GM2A	GPR12	GSTA3	HCCS	HLA-DQB1	HPS3	ICAM1	IKBKG	INMT	ITIH6	KCNH2
GGH	GMD5	GPR132	GSTM1	HCFC1	HLA-DRB5	HPS4	ICAM4	IKZF1	INPP5B	ITK	KCNH3
GH1	GMPS	GPR139	GSTM3	HCN1	HLA-G	HPS5	ICK	IKZF3	INPP5D	ITM2B	KCNIP4
GH2	GNAI2	GPR143	GSTO1	HCN2	HLCS	HPS6	ICOS	IL10	INPP5E	ITPA	KCNJ1



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KCNJ10	KIAA1279	KRT13	LCK	LIPC	LRRC4	MAOB	MCM4	MGAT5	MNX1	MSX1	MYH8
KCNJ11	KIAA1432	KRT14	LCN10	LIPG	LRRC6	MAP2	MCM5	MGAT5B	MOCOS	MSX2	MYH9
KCNJ12	KIAA1462	KRT16	LCT	LIPH	LRRC8A	MAP2K1	MCM6	MGLL	MOCOS1	MTA1	MYL1
KCNJ13	KIAA2022	KRT17	LDB1	LIP1	LRRFIP2	MAP2K2	MCM9	MGMT	MOCOS2	MTA2	MYL2
KCNJ2	KIF11	KRT18	LDB3	LIPN	LRRIQ1	MAP2K3	MCOLN1	MGP	MOG	MTAP	MYL3
KCNJ5	KIF17	KRT2	LDHA	LITAF	LRRC2	MAP2K4	MCPH1	MGST2	MOGS	MTFMT	MYLK
KCNJ6	KIF1A	KRT3	LDHB	LLGL1	LRRTM1	MAP2K7	MDGA2	MGST3	MOK	MTHFD1	MYLK2
KCNJ8	KIF1B	KRT37	LDLR	LMAN1	LRSAM1	MAP3K1	MDK	MICA	MPC1	MTHFR	MYO15A
KCNK18	KIF21A	KRT38	LDLRAP1	LMBR1	LRTOMT	MAP3K14	MDM2	MID1	MPDU1	MTHFS	MYO1A
KCNK3	KIF22	KRT4	LECT2	LMBRD1	LTBP1	MAP3K15	MDN1	MIF	MPDZ	MTM1	MYO1C
KCNK9	KIF27	KRT5	LEF1	LMF1	LTBP2	MAP3K8	ME2	MINPP1	MPG	MTMR14	MYO1D
KCNMA1	KIF3C	KRT6A	LEFTY2	LMNA	LTBP3	MAP6	MECOM	MIP	MPHOSPH8	MTMR2	MYO1E
KCNMB1	KIF5A	KRT74	LEMD3	LMNB1	LTBP4	MAP7D1	MECP2	MIPOL1	MPI	MTMR9	MYO1F
KCNMB4	KIF7	KRT75	LEP	LMNB2	LTBR	MAPK1	MED12	MIR182	MPL	MTNR1A	MYO3A
KCNN2	KIR2DL3	KRT8	LEPR	LMO2	LTC4S	MAPK10	MED13L	MIR183	MPLKIP	MTNR1B	MYO5A
KCNN3	KIRREL3	KRT81	LEPRE1	LMO4	LTN1	MAPK8IP1	MED17	MIR96	MPO	MTO1	MYO5B
KCNQ1	KISS1	KRT83	LEPREL1	LMTK3	LUM	MAPT	MED23	MITF	MPP6	MTPAP	MYO5C
KCNQ2	KISS1R	KRT85	LETM1	LMX1B	LY96	MARS2	MED25	MKKS	MPST	MTR	MYO6
KCNQ3	KIT	KRT86	LFNG	LOC100271832	LYN	MARVELD2	MEF2A	MKL1	MPV17	MTRR	MYO7A
KCNQ4	KITLG	KRT9	LGALS13	LOC100996485	LYST	MASP1	MEF2C	MKS1	MPZ	MTSS1	MYO7B
KCNQ5	KL	KRTAP1-1	LGALS2	LOC338817	LYZ	MASP2	MEFV	MLC1	MR1	MTTP	MYO9B
KCNS1	KLC1	KYNU	LGI1	LOR	LZTFL1	MASTL	MEGF10	MLH1	MRAP	MUC5B	MYOC
KCNT1	KLF1	L1CAM	LGI4	LOX	LZTS1	MAT1A	MEGF11	MLH3	MRC1	MUC7	MYOCD
KCNV1	KLF10	L2HGDH	LGR5	LOXHD1	MACROD2	MATN3	MEGF8	MLLT10	MRE11A	MURC	MYOD1
KCNV2	KLF11	L3MBTL1	LHB	LOXL1	MAD1L1	MATR3	MEIS1	MLLT11	MREG	MUS81	MYOM1
KCTD13	KLF6	LAMA1	LHCGR	LPA	MADD	MAX	MEN1	MLT3	MRPL3	MUSK	MYOT
KCTD7	KLF8	LAMA2	LHFPL5	LPAR6	MAEA	MBD1	MEPE	MLPH	MRPL48	MUT	MYOZ2
KDM3A	KLHDC8B	LAMA3	LHX1	LPIN1	MAF	MBD3	MERTK	MLXIPL	MRPS16	MUTYH	MYPN
KDM5A	KLHL10	LAMA4	LHX3	LPIN2	MAFA	MBD4	MESDC2	MLYCD	MRPS22	MVK	MYT1
KDM5C	KLHL3	LAMB1	LHX4	LPIN3	MAFB	MBD5	MESP2	MMAA	MRRF	MXI1	MYT1L
KDM6A	KLHL7	LAMB2	LHX8	LPL	MAGEE2	MBL2	MEST	MMAB	MS4A1	MYB	NAA10
KDM6B	KLHL9	LAMB3	LIAS	LPP	MAGEL2	MBNL1	MET	MMACHC	MS4A12	MYBPC1	NAALADL2
KDR	KLK1	LAMB4	LIF	LRAT	MAGI2	MBOAT7	MFAP4	MMADHC	MS4A2	MYBPC3	NAGA
KEL	KLK12	LAMC2	LIFR	LRBA	MAGT1	MBTPS2	MFF	MME	MSH2	MYC	NAGLU
KERA	KLK4	LAMC3	LIG1	LRFN5	MAK	MC1R	MFGES	MMEL1	MSH3	MYCN	NAGPA
KHDC3L	KLKB1	LAMP2	LIG3	LRIT3	MALT1	MC2R	MFN2	MMP1	MSH6	MYD88	NAGS
KHK	KMT2D	LAMTOR2	LIG4	LRP1	MAML2	MC3R	MFRP	MMP13	MSMB	MYF5	NAIP
KIAA0100	KNG1	LARGE	LILRA3	LRP1B	MAMLD1	MC4R	MFSDB	MMP14	MSMO1	MYF6	NAPRT1
KIAA0196	KPNA1	LAS1L	LIM2	LRP2	MAN1A2	MCC	MGAT1	MMP2	MSR1	MYH11	NARS2
KIAA0226	KRAS	LBR	LIMK1	LRP4	MAN1B1	MCCC1	MGAT2	MMP20	MSRA	MYH14	NAT1
KIAA0232	KRIT1	LCA5	LINC00470	LRP5	MAN2A1	MCCC2	MGAT3	MMP3	MSRB3	MYH2	NAT2
KIAA0319	KRT1	LCAT	LINC00523	LRP6	MAN2B1	MCEE	MGAT4A	MMP8	MST1	MYH3	NAT8L
KIAA1033	KRT10	LCE3B	LINS	LRP8	MANBA	MCFD2	MGAT4B	MMP9	MST1R	MYH6	NAV2
KIAA1199	KRT12	LCE5A	LIPA	LRPPRC	MAOA	MCHR1	MGAT4C	MN1	MSTN	MYH7	NBAS



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NBEA	NDUFS3	NIN	NOS3	NRAS	OGG1	PABPC4L	PCM1	PEX13	PIGV	PLEKHG5	POMT1	PRDM5
NBEAL2	NDUFS4	NINJ1	NOTCH1	NRCAM	OGT	PACRG	PCMT1	PEX14	PIGZ	PLG	POMT2	PRDM9
NBN	NDUFS5	NIPA1	NOTCH2	NRG1	OLFM2	PACS1	PCNT	PEX16	PIK3CA	PLIN1	PON1	PREPL
NBPF1	NDUFS6	NIPAL4	NOTCH3	NRL	OLIG2	PADI4	PCOLCE	PEX19	PIK3CB	PLOD1	PON2	PRF1
NCALD	NDUFS7	NIPBL	NOX3	NRP2	OLR1	PAFAH1B1	PCP4	PEX2	PIK3CD	PLOD2	PON3	PRG4
NCAPD2	NDUFS8	NIPSNAP1	NPAS2	NRTN	OMG	PAFAH1B3	PCSK1	PEX26	PIK3R1	PLOD3	POP1	PRICKLE1
NCF2	NDUFV1	NIPSNAP3A	NPAS3	NRXN1	OPA1	PAH	PCSK5	PEX3	PIK3R2	PLP1	POR	PRICKLE2
NCF4	NDUFV2	NKAIN2	NPAT	NRXN2	OPA3	PAK3	PCSK9	PEX5	PIK3R5	PLP2	PORCN	PRKACA
NCKAP1	NDUFV3	NKX2-1	NPC1	NRXN3	OPCML	PALB2	PDCD1	PEX6	PIKFYVE	PLSCR3	POSTN	PRKAG2
NCOA1	NEB	NKX2-5	NPC1L1	NSD1	OPHN1	PALLD	PDCD10	PEX7	PIM1	PLTP	POU1F1	PRKAG3
NCOA4	NEBL	NKX2-6	NPC2	NSDHL	OPLAH	PAMR1	PDE11A	PFKM	PIN1	PML	POU3F4	PRKAR1A
NCR3	NEDD4	NKX3-1	NPFRR2	NSMF	OPN1SW	PANK2	PDE4B	PFN1	PINK1	PMM2	POU4F3	PRKCA
NCS1	NEDD4L	NKX3-2	NPHP1	NSUN2	OPRL1	PAPSS2	PDE4D	PGAM2	PIP5K1C	PMP22	POU5F1	PRKCG
NCSTN	NEFH	NLGN1	NPHP3	NSUN7	OPRM1	PARD3B	PDE6A	PGAM5	PITPNA	PMS1	POU6F2	PRKCH
NDE1	NEFL	NLGN2	NPHP4	NT5C3A	OPTC	PARK2	PDE6B	PGK1	PITPNM3	PMS2	PPARA	PRKCSH
NDN	NEFM	NLGN3	NPHS1	NT5E	OPTN	PARK7	PDE6C	PGM1	PITX1	PNKD	PPARG	PRKDC
NDOR1	NEGR1	NLGN4X	NPHS2	NTF3	OR10X1	PARL	PDE6G	PGR	PITX2	PNKP	PPARGC1B	PRKG2
NDP	NEIL1	NLGN4Y	NPL	NTF4	OR13G1	PARP1	PDE6H	PGRMC1	PITX3	PNLIP	PPIB	PRLH
NDRG1	NEIL2	NLRP1	NPM1	NTHL1	OR1B1	PASK	PDE8B	PHB	PKD1	PNMT	PPM1B	PRLR
NDST1	NEK1	NLRP12	NPPA	NTNG1	OR51G1	PAX1	PDGFB	PHFX	PKD2	PNP	PPM1D	PRM1
NDST2	NEK8	NLRP14	NPPC	NTRK1	OR52H1	PAX2	PDGFRA	PHF11	PKHD1	PNPLA1	PPM1G	PRM2
NDST3	NEU2	NLRP2	NPR2	NTRK2	OR52N4	PAX3	PDGFRB	PHF2	PKLR	PNPLA2	PPM1K	PRMT10
NDST4	NEUROD1	NLRP3	NPSR1	NTRK3	OR5AC2	PAX4	PDGFRL	PHF3	PKM	PNPLA6	PPOX	PRMT3
NDUFA1	NEUROG3	NLRP7	NPY	NUAK1	OR5H6	PAX5	PDHA1	PHF6	PKN3	PNPO	PPP1R12B	PRMT7
NDUFA10	NEXN	NLRX1	NPY1R	NUBPL	OR8K3	PAX6	PDHB	PHF8	PKP1	PNPT1	PPP1R17	PRND
NDUFA11	NF1	NME1	NPY2R	NUDC	ORAI1	PAX7	PDHX	PHGDH	PKP2	POC1A	PPP1R1A	PRNP
NDUFA12	NF2	NME5	NQO1	NUDT1	ORC1	PAX8	PKD1	PHIP	PLA2G10	POF1B	PPP1R3A	PROC
NDUFA13	NFATC2	NME7	NROB1	NUMA1	ORC4	PAX9	PDLIM3	PHKA1	PLA2G2A	POFUT2	PPP1R3C	PROCR
NDUFA2	NFATC3	NME8	NROB2	NUP155	ORC6	PBX1	PDLIM4	PHKA2	PLA2G4A	POGZ	PPP2R1B	PRODH
NDUFA4	NFATC4	NMNAT1	NR1H2	NUP214	OSMR	PC	PDP1	PHKB	PLA2G5	POLB	PPP2R2A	PROK1
NDUFA6	NFE2L1	NMT2	NR1H3	NUP62	OSTM1	PCBD1	PDPK1	PHKG2	PLA2G6	POLD1	PPP2R2B	PROK2
NDUFA8	NFIA	NMU	NR1H4	NXF5	OTC	PCBP3	PDSS1	PHLPP2	PLA2G7	POLE2	PPP2R2C	PROKR1
NDUFA9	NFIB	NNT	NR1I2	NXNL1	OTOA	PCCA	PDSS2	PHOX2A	PLAG1	POLG	PPP3CA	PROKR2
NDUFAF1	NFIX	NOBOX	NR1I3	NYX	OTOF	PCCB	PDX1	PHOX2B	PLAGL1	POLG2	PPP3R1	PROM1
NDUFAF3	NFKB2	NOD1	NR2E1	OAS1	OTOG	PCDH11X	PDYN	PHYH	PLAU	POLH	PPT1	PROP1
NDUFAF4	NFKBIA	NOD2	NR2E3	OAS2	OTOGL	PCDH15	PDZD7	PICALM	PLCB1	POLL	PQBP1	PROS1
NDUFAF5	NFKBIZ	NODAL	NR2F1	OAT	OTX2	PCDH18	PECR	PICK1	PLCB4	POLR1C	PRAF2	PROX1
NDUFAF6	NFU1	NOG	NR2F2	OBSCN	OVCH2	PCDH19	PEPD	PIF1	PLCD1	POLR1D	PRB1	PROZ
NDUFAF7	NGF	NOL3	NR3C1	OBSL1	OXCT1	PCDHA1	PER1	PIGA	PLCE1	POLR3A	PRB3	PRPF3
NDUFB1	NGLY1	NOP10	NR3C2	OCA2	P2RX1	PCDHA10	PER2	PIGL	PLCG2	POLR3B	PRB4	PRPF31
NDUFB3	NHEJ1	NOP56	NR4A1	OCLN	P2RX5	PCDHA13	PEX1	PIGM	PLCZ1	POLRMT	PRCC	PRPF6
NDUFB9	NHLRC1	NOS1	NR4A2	OCRL	P2RX7	PCDHB4	PEX10	PIGN	PLD2	POMC	PRCD	PRPF8
NDUFS1	NHS	NOS1AP	NR4A3	ODC1	P2RY12	PCK2	PEX11B	PIGO	PLEC	POMGNT1	PRCP	PRPH
NDUFS2	NICN1	NOS2	NR5A1	OFD1	P2RY4	PCLO	PEX12	PIGR	PLEKHG4	POMP	PRDM16	PRPH2



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PRPS1	PTPN11	RAD51	RDH12	RMDN2	RPN2	SART3	SEC23B	SEZ6L	SIM2	SLC24A2	SLC35C1
PRRT2	PTPN12	RAD51B	RDH5	RMND1	RPS15	SAT1	SEC63	SEZ6L2	SIPA1	SLC24A5	SLC35D1
PRRX1	PTPN14	RAD51C	RDH8	RNASEH2A	RPS17L	SATB2	SECISBP2	SF3B1	SIPA1L1	SLC25A12	SLC35F3
PRSS1	PTPN22	RAD51D	RDX	RNASEH2B	RPS19	SATL1	SELE	SF3B4	SIRT1	SLC25A13	SLC35G2
PRSS12	PTPN6	RAD52	RECQL4	RNASEH2C	RPS24	SBF2	SELL	SFRP1	SIRT3	SLC25A15	SLC36A2
PRSS3P2	PTPRC	RAD54B	REEP1	RNASEL	RPS26	SC5D	SELP	SFTPA1	SIX1	SLC25A19	SLC37A4
PRSS56	PTPRJ	RAD54L	REL	RNASET2	RPS5	SCARB1	SELPPLG	SFTPA2	SIX2	SLC25A20	SLC39A12
PRSS8	PTPRK	RAF1	RELN	RNF113A	RPS6KA3	SCARB2	SEMA3A	SFTPB	SIX3	SLC25A22	SLC39A13
PRTG	PTPRN2	RAG1	REN	RNF135	RPS6KL1	SCARF2	SEMA3E	SFTPC	SIX5	SLC25A3	SLC39A4
PRX	PTPRO	RAG2	REPS2	RNF139	RPSAP52	SCGB1A1	SEMA4A	SFTPD	SIX6	SLC25A38	SLC3A1
PSAP	PTPRQ	RAI1	RET	RNF168	RPTOR	SCGB3A2	SEMA4C	SGCA	SKI	SLC25A39	SLC40A1
PSAT1	PTPRT	RALGAPA1	RETN	RNF170	RRAS2	SCLT1	SEMA4G	SGCB	SLA2	SLC25A4	SLC41A1
PSEN1	PTRF	RALGDS	RFC2	RNF212	RRH	SCN10A	SEMA6D	SGCD	SLC10A1	SLC26A1	SLC44A2
PSEN2	PTS	RANBP2	RFT1	RNF213	RRM2B	SCN11A	SEMA7A	SGCE	SLC10A2	SLC26A10	SLC45A2
PSENE1	PUS1	RANGRF	RFX2	RNF219-AS1	RS1	SCN1A	SEMG1	SGCG	SLC11A1	SLC26A2	SLC46A1
PSMA4	PVRL1	RAP1GDS1	RFX5	RNF6	RSC1A1	SCN1B	SEPN1	POMK (SGK196)	SLC11A2	SLC26A3	SLC47A1
PSMA6	PVRL4	RAPSN	RFX6	ROBO1	RSPH4A	SCN2A	SEPSECS	SGSH	SLC12A1	SLC26A4	SLC47A2
PSMB8	PXDN	RARA	RFX8	ROBO2	RSPH9	SCN2B	12-Sep	SH2B1	SLC12A3	SLC26A5	SLC4A1
PSMC3IP	PYCR1	RARS2	RFXANK	ROBO3	RSPO1	SCN3A	SEPT5-GP1BB	SH2B3	SLC12A6	SLC26A6	SLC4A10
PSMD7	PYGL	RASA1	RFXAP	ROCK1	RSPO4	SCN3B	7-Sep	SH2D1A	SLC13A2	SLC26A9	SLC4A11
PSPH	PYGM	RASGEF1B	RGL1	ROGDI	RSRC1	SCN4A	SERAC1	SH3BP2	SLC14A1	SLC27A1	SLC4A3
PSPN	PYY	RASGRP1	RGMA	ROM1	RTN2	SCN4B	SERPINA1	SH3GL1	SLC15A1	SLC27A4	SLC4A4
PSTPIP1	PZP	RASGRP2	RGR	ROR2	RTN4R	SCN5A	SERPINA10	SH3PXD2B	SLC16A1	SLC27A5	SLC4A7
PSTPIP2	QDPR	RASSF5	RGS2	RORA	RTTN	SCN7A	SERPINA3	SH3TC2	SLC16A12	SLC28A1	SLC52A1
PTAFR	QKI	RAX	RGS5	ROS1	RUNX1	SCN8A	SERPINA6	SHANK2	SLC16A2	SLC28A2	SLC52A2
PTCD1	RAB11FIP5	RAX2	RGS7	RP1	RUNX2	SCN9A	SERPINA7	SHANK3	SLC17A3	SLC28A3	SLC52A3
PTCH1	RAB18	RB1	RGS9	RP1L1	RUNX3	SCNN1A	SERPINB11	SHARPIN	SLC17A5	SLC29A1	SLC5A1
PTCH2	RAB23	RB1CC1	RGS9BP	RP2	RUVBL1	SCNN1B	SERPINB5	SHBG	SLC17A8	SLC29A2	SLC5A11
PTCHD1	RAB25	RBBP8	RHAG	RP9	RXFP2	SCNN1D	SERPINB6	SHFM1	SLC19A2	SLC29A3	SLC5A2
PTCHD3	RAB27A	RBFOX1	RHBDF2	RPA1	RXRA	SCNN1G	SERPINC1	SHH	SLC19A3	SLC2A1	SLC5A5
PTEN	RAB27B	RBL1	RHCE	RPA4	RYK	SCO1	SERPIND1	SHMT1	SLC1A1	SLC2A10	SLC5A7
PTF1A	RAB2A	RBL2	RHD	RPE65	RYR1	SCO2	SERPINE1	SHOC2	SLC1A3	SLC2A2	SLC6A1
PTGDR	RAB39B	RBM10	RHO	RPGR	RYR2	SCP2	SERPINF1	SHOX	SLC1A5	SLC2A4	SLC6A11
PTGER2	RAB3GAP1	RBM15	RHOG	RPGRIP1	SAA1	SCRIB	SERPINF2	SHOX2	SLC20A2	SLC2A9	SLC6A12
PTGER4	RAB3GAP2	RBM20	RHOH	RPGRIP1L	SACS	SCUBE2	SERPING1	SHROOM3	SLC22A1	SLC30A10	SLC6A13
PTGIR	RAB7A	RBM28	RHPN2	RPIA	SAG	SDC3	SERPINH1	SHROOM4	SLC22A12	SLC30A2	SLC6A14
PTGIS	RAB7L1	RBMXL2	RIMS1	RPL10	SAGE1	SDCCAG8	SERPINI1	SI	SLC22A18	SLC30A5	SLC6A18
PTGS1	RABGGTA	RBP3	RIMS2	RPL11	SALL1	SDHA	SERPINI2	SIAE	SLC22A2	SLC30A8	SLC6A19
PTGS2	RABL6	RBP4	RIMS3	RPL24	SALL4	SDHAF1	SESN2	SIGLEC12	SLC22A3	SLC31A1	SLC6A2
PTH	RAC1	RBPJ	RIN2	RPL35A	SAMD9	SDHAF2	SETBP1	SIGLEC14	SLC22A4	SLC33A1	SLC6A20
PTH1R	RAC2	RC3H1	RIOK2	RPL36	SAMHD1	SDHB	SETD2	SIGMAR1	SLC22A5	SLC34A1	SLC6A3
PTHLH	RAD21	RCBTB1	RIPK4	RPL38	SAR1B	SDHC	SETD8	SIK3	SLC22A6	SLC34A2	SLC6A4
PTK7	RAD21L1	RCHY1	RIT2	RPL5	SARDH	SDHD	SETX	SIL1	SLC22A9	SLC34A3	SLC6A5
PTPN1	RAD50	RD3	RLBP1	RPL6	SARS2	SEC23A	SEZ6	SIM1	SLC24A1	SLC35A1	SLC6A6



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SLC6A8	SMG1	SOX3	SRC	STAT5B	SYN1	TBCE	TEKT2	TIMM44	TMPRSS15	TPM3	TRPV1
SLC6A9	SMIM3	SOX5	SRCAP	STEAP3	SYN2	TBK1	TENC1	TIMM8A	TMPRSS3	TPMT	TRPV3
SLC7A10	SMN2	SOX6	SRD5A2	STIL	SYNE1	TBL1X	TENM2	TIMP3	TMPRSS5	TPO	TRPV4
SLC7A11	SMO	SOX7	SRD5A3	STIM1	SYNE2	TBL1XR1	TENM4	TINAG	TMPRSS6	TPP1	TRPV5
SLC7A2	SMOC1	SOX9	SREBF1	STK11	SYNGR1	TBL1Y	TERC	TINF2	TMTC3	TPRN	TRRAP
SLC7A5	SMOC2	SP110	SREBF2	STK11P	SYNM	TBP	TERT	TIRAP	TNFRSF10B	TPTE	TSC1
SLC7A7	SMPD1	SP7	SRGAP3	STK19	SYNPO	TBX1	TET1	TJP2	TNFRSF11A	TRADD	TSC2
SLC7A9	SMPD3	SP8	SRI	STK35	SYNPR	TBX10	TET2	TK2	TNFRSF11B	TRAF3	TSEN2
SLC9A3	SMPX	SPAG17	SRP72	STK36	SYP	TBX15	TEX14	TLL1	TNFRSF13B	TRAF3IP2	TSEN34
SLC9A3R1	SMS	SPANXN5	SRPX	STK39	SYT14	TBX19	TF	TLR1	TNFRSF13C	TRAF6	TSEN54
SLC9A6	SMUG1	SPAST	SRPX2	STK4	SYT17	TBX2	TFAM	TLR2	TNFRSF1A	TRAK1	TSFM
SLC9A9	SNAI2	SPATA13	SRR	STOX1	SYT2	TBX20	TFAP2A	TLR3	TNFRSF1B	TRAPPC9	TSG101
SLCO1A2	SNAP25	SPATA16	SRY	STRA6	SYTL3	TBX21	TFAP2B	TLR4	TNFRSF9	TRDN	TSHB
SLCO1B1	SNAP29	SPATA21	SSH1	STRADA	SYTL5	TBX22	TFB1M	TLR5	TNFSF11	TREH	TSHR
SLCO1B3	SNAPC5	SPATA31C1	SSPN	STRC	T	TBX3	TFE3	TLR6	TNFSF14	TREM2	TSHZ1
SLCO1C1	SNCA	SPATA7	SSTR5	STS	TAAR1	TBX4	TFF1	TLR9	TNFSF4	TRERF1	TSLP
SLCO2A1	SNCAIP	SPECC1	SSX7	STT3A	TAAR9	TBX5	TFG	TLX1	TNKS	TREX1	TSPAN12
SLCO2B1	SNCB	SPECC1L	ST14	STT3B	TAB2	TBX6	TFPI	TLX2	TNNC1	TRHR	TSPAN17
SLCO5A1	SNIP1	SPEF2	ST3GAL1	STX11	TAC3	TBXA2R	TFR2	TLX3	TNNI2	TRIB2	TSPAN7
SLFN5	SNRK	SPG11	ST3GAL2	STX16	TACO1	TBXA51	TFRC	TM4SF19	TNNI3	TRIB3	TSPEAR
SLIT1	SNRNP200	SPG20	ST3GAL3	STXBP1	TACR3	TCAP	TG	TMC1	TNNI3K	TRIM21	TSP0
SLIT3	SNTA1	SPG21	ST3GAL4	STXBP2	TACSTD2	TCF21	TGFB1	TMC6	TNNT1	TRIM24	TSPYL1
SLITRK1	SNTB1	SPG7	ST3GAL5	SUCLA2	TAF1	TCF3	TGFB2	TMC8	TNNT2	TRIM32	TSSC4
SLITRK5	SNTG2	SPI1	ST3GAL6	SUCLG1	TAF15	TCF4	TGFB3	TMCO1	TNNT3	TRIM33	TSSK4
SLITRK6	SNURF	SPINK1	ST5	SUCO	TAF1C	TCF7L1	TGFB1	TMEM114	TNP1	TRIM37	TST
SLURP1	SNX1	SPINK5	ST6GAL1	SUFU	TAF1L	TCF7L2	TGFB1	TMEM126A	TNR	TRIO	TTBK2
SLX4	SNX10	SPINT2	ST6GAL2	SULF1	TAF2	TCIRG1	TGFB2	TMEM127	TNRC6B	TRIOBP	TTC19
SMAD1	SNX3	SPP1	ST6GALNAC1	SULT1A1	TAL1	TCN1	TGFB3	TMEM135	TNS3	TRIP11	TTC21B
SMAD2	SOBP	SPR	ST6GALNAC2	SULT1C2	TAL2	TCN2	TGIF1	TMEM138	TNXB	TRIP12	TTC37
SMAD3	SOCS3	SPRED1	ST6GALNAC3	SULT2A1	TALDO1	TCOF1	TGM1	TMEM165	TOP1	TRIP13	TTC8
SMAD4	SOD1	SPRED2	ST6GALNAC4	SULT2B1	TAP2	TCTE1	TGM2	TMEM173	TOP2A	TRMU	TTI2
SMAD5	SOD2	SPRN	ST6GALNAC5	SULT4A1	TARDBP	TCTE3	TGM5	TMEM187	TOPORS	TROAP	TTL1
SMAD6	SOD3	SPRY2	ST6GALNAC6	SUMF1	TAS1R1	TCTN1	TGM6	TMEM216	TOR1A	TROVE2	TTN
SMAD7	SOGA3	SPRY4	ST8SIA1	SUMO1	TAS1R3	TCTN2	TH	TMEM231	TP53	TRPA1	TPPA
SMAD9	SOHLH1	SPSB1	ST8SIA2	SUMO4	TAS2R16	TCTN3	THAP1	TMEM237	TP53BP1	TRPC3	TTR
SMARCA2	SORCS1	SPTA1	ST8SIA3	SUOX	TAS2R3	TDO2	THBD	TMEM43	TP53RK	TRPC4	TUB
SMARCA4	SORL1	SPTAN1	ST8SIA4	SUPT16H	TAS2R38	TDP1	THBS1	TMEM5	TP63	TRPC6	TUBA1A
SMARCAD1	SORT1	SPTB	ST8SIA5	SURF1	TAS2R46	TDRD7	THBS2	TMEM67	TP73	TRPM1	TUBA8
SMARCAL1	SOS1	SPTBN1	ST8SIA6	SUV420H1	TAT	TEAD1	THOC2	TMEM70	TPCN2	TRPM2	TUBB1
SMARCB1	SOST	SPTBN2	STAR	SUZ12	TAZ	TEC	THPO	TMEM8A	TPH1	TRPM3	TUBB2B
SMARCE1	SOX10	SPTBN5	STARD9	SV2B	TBC1D23	TECPR2	THRA	TMEM99	TPH2	TRPM4	TUBB3
SMC1A	SOX17	SPTLC1	STAT1	SYCE2	TBC1D24	TECR	THRB	TMIE	TPK1	TRPM6	TUBGCP5
SMC3	SOX18	SPTLC2	STAT3	SYCP3	TBC1D4	TECTA	THSD7A	TMLHE	TPM1	TRPM7	TUBGCP6
SMCHD1	SOX2	SQSTM1	STAT4	SYK	TBC1D9	TEK	TICAM1	TMPO	TPM2	TRPS1	TUFM



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TULP1	UGT2A1	UVSSA	WDR45B	YWHAE	ZNF433	SNPs	SNPs	SNPs	SNPs	SNPs
TUSC3	UGT2B10	VAMP7	WDR62	YY1	ZNF469	rs10079352	rs1372116	rs2868756	rs6697376	rs9600257
TWIST1	UGT2B17	VANGL1	WDR65	ZAN	ZNF480	rs10118253	rs1406961	rs299964	rs6722213	rs961425
TWIST2	UGT2B4	VANGL2	WDR72	ZAP70	ZNF513	rs10194115	rs1412329	rs3095966	rs6731289	rs9830186
TXNIP	UGT2B7	VAPB	WDR81	ZBTB16	ZNF526	rs1025542	rs1488298	rs3130544	rs6759244	rs9862216
TXNRD2	UGT8	VAX1	WFS1	ZBTB18	ZNF592	rs10258757	rs1495908	rs330650	rs6874954	rs9897184
TYK2	UIMC1	VCAM1	WHSC1	ZBTB24	ZNF644	rs10486776	rs1527243	rs35229355	rs6904219	rs9911767
TYMP	ULK4	VCAN	WIPF1	ZBTB40	ZNF674	rs10493887	rs1593304	rs3738694	rs6957441	rs9912380
TYMS	UMOD	VCL	WISP3	ZBTB41	ZNF711	rs10509835	rs1643209	rs3848521	rs7043482	rs9934438
TYR	UMPS	VCP	WNK1	ZC3H14	ZNF750	rs10513702	rs16847697	rs387096	rs7085224	
TYRO3	UNC119	VCX3A	WNK4	ZCCHC12	ZNF75D	rs10515552	rs16861326	rs3915716	rs7128311	
TYROBP	UNC13D	VDR	WNT10A	ZCCHC13	ZNF80	rs10744177	rs1689282	rs3997520	rs7189583	
TYRP1	UNC5C	VEGFA	WNT10B	ZCCHC8	ZNF81	rs10762771	rs16920624	rs433317	rs7251928	
UACA	UNC5CL	VEGFC	WNT3	ZDHHC15	ZBPB	rs10828675	rs16937883	rs4337777	rs72561473	
UBA1	UNC80	VHL	WNT4	ZDHHC17	ZBPB2	rs10841937	rs16938910	rs439401	rs7261103	
UBAC2	UNC93A	VIM	WNT5A	ZDHHC2		rs10888501	rs16962638	rs4489167	rs7299662	
UBE2A	UNC93B1	VIPAS39	WNT7A	ZDHHC9		rs10928927	rs16996148	rs4512236	rs735480	
UBE2B	UNG	VKORC1	WRAP53	ZEB1		rs10947670	rs17008327	rs4632227	rs7406339	
UBE2NL	UNKL	VLDLR	WRN	ZEB2		rs10953615	rs17034770	rs4639272	rs7453135	
UBE3A	UPB1	VMA21	WT1	ZFAT		rs11067228	rs17120651	rs4687006	rs745767	
UBE3C	UPF3B	VNN1	WWC1	ZFH3		rs11083515	rs17167582	rs4745841	rs746017	
UBIAD1	UPK3A	VPS13A	WWOX	ZFP36		rs11157653	rs17186051	rs4784207	rs7579747	
UBQLN2	UQCRB	VPS13B	WWTR1	ZFP36L1		rs1122927	rs17431357	rs4789659	rs7635839	
UBR1	UQCRF51	VPS33B	XBP1	ZFP36L2		rs1163183	rs17677051	rs480700	rs767983	
UBR3	UQCRQ	VPS35	XDH	ZFP69		rs11648965	rs1860230	rs4808069	rs7703051	
UBR7	UROC1	VPS37A	XG	ZFP90		rs11762273	rs1871426	rs4875051	rs7723040	
UCHL1	UROD	VPS54	XIAP	ZFPM2		rs11794323	rs1898036	rs4877455	rs7732591	
UCN	UROS	VRK1	XK	ZFYVE26		rs11837475	rs1921998	rs4889035	rs7736417	
UCP1	USB1	VSIG4	XKR6	ZFYVE27		rs12318959	rs1955848	rs4975709	rs7780323	
UCP2	USF1	VSX1	XPA	ZHX3		rs12336160	rs1997937	rs4984473	rs7824027	
UCP3	USH1C	VSX2	XPC	ZIC2		rs12452133	rs200113	rs556018	rs7844620	
UFD1L	USH1G	VWF	XPNPEP2	ZIC3		rs12473565	rs2063164	rs569629	rs791443	
UGCG	USH2A	WAS	XPNPEP3	ZIC4		rs1250223	rs2157453	rs5761946	rs798443	
UGGT1	USP1	WASF3	XRCC1	ZKSCAN5		rs12503744	rs2162440	rs5927164	rs8066483	
UGGT2	USP15	WBSR17	XRCC2	ZMPSTE24		rs12541800	rs2178603	rs6046748	rs810087	
UGT1A1	USP26	WDFY3	XRCC3	ZMYM3		rs12637723	rs2251110	rs609096	rs9272346	
UGT1A10	USP3	WDPCP	XRCC4	ZNF175		rs12655917	rs22954029	rs6129168	rs9286879	
UGT1A3	USP46	WDR11	XRCC5	ZNF213		rs12667787	rs236528	rs6138892	rs9313296	
UGT1A4	USP9X	WDR13	XRCC6	ZNF335		rs1288097	rs2416996	rs6475870	rs9319321	
UGT1A5	USP9Y	WDR19	XYLT1	ZNF365		rs1297370	rs2623382	rs6546856	rs9349653	
UGT1A6	UST	WDR35	XYLT2	ZNF41		rs13094242	rs2647044	rs6585677	rs937878	
UGT1A7	UTF1	WDR36	YARS	ZNF419		rs13294589	rs2700367	rs6603109	rs9396715	
UGT1A8	UTP14C	WDR4	YARS2	ZNF420		rs1329568	rs2734583	rs66718538	rs9398652	
UGT1A9	UTRN	WDR45	YBX2	ZNF423		rs1355845	rs274741	rs6694222	rs9513354	



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Important Notes:

- 1- Only known exons of these genes will be examined
- 2- Repeat expansion disorders will not be covered
- 3- Genomic regions beside exons of protein-coding genes, genes that are not listed here in this list, repeat expansions and mutations in the upstream and downstream regulatory regions will not be investigated.

Additional Comments:

- Although next generation sequencing (NGS) is a method of choice for high throughput sequencing purposes, **NGS has not been approved for clinical and diagnostic use**; therefore, Sanger sequencing must be done to confirm the sequencing data, particularly on identified mutations.
- Genetic counseling is recommended to explain risks and potential pitfalls of the experiment.
- It is of utmost importance for all clinicians involved in the care of families requesting molecular genetic diagnostic tests and the families themselves to be aware of the risk of errors in DNA analysis. Incorrect analysis may result from 1) incorrect data and clinical diagnosis 2) incomplete family studies and history 3) mix-up of DNA samples and mislabeling 4) rare molecular events 5) new or spontaneous mutations 6) paternity problems, adaptation, IVF, egg donor, bone marrow transplantation, recent blood product transfusion 7) maternal DNA contamination of CVS or amniotic fluid samples 8) technical errors. The risk of errors from various reasons mentioned above and several others is about 0.5%, while the chance of technical errors of all types is estimated to be around 0.5%. The risk of errors due to DNA recombination in diagnosis is approximately 0.3%. We take no responsibility about patient identity and possible mis-labeling of the DAN samples. Any feedback from our colleagues in the clinical field would be most welcomed. Comments can be given in writing or by calling my number listed below or by e-mail to: [Mohammad.ali.faghihi@gmail.com](mailto: Mohammad.ali.faghihi@gmail.com)