

**Zoznam génov, CES v3 kit root2, Sophia Genetics**

A2M	ABCD3	ACSL6	ADAMTSL3
A4GALT	ABCD4	ACSM3	ADAMTSL4
A4GNT	ABCG2	ACTA1	ADAR
AAAS	ABCG5	ACTA2	ADARB1
AADAC	ABCG8	ACTB	ADCY10
AADAACL2	ABHD12	ACTBP11	ADCY3
AAGAB	ABHD5	ACTBP2	ADCY5
AANAT	ABI3BP	ACTBP7	ADCY6
AARS	ABL1	ACTC1	ADCY9
AARS2	ABL2	ACTG1	ADD1
AASS	ABO	ACTN1	ADD2
ABAT	ABRAXAS1	ACTN2	ADGRG1
ABCA1	ACACA	ACTN4	ADGRG2
ABCA10	ACACB	ACTN4P1	ADGRV1
ABCA11P	ACAD10	ACTR3C	ADH1A
ABCA12	ACAD11	ACVR1	ADH1B
ABCA13	ACAD8	ACVR1B	ADH1C
ABCA17P	ACAD9	ACVR1C	ADH4
ABCA2	ACADL	ACVR2A	ADH7
ABCA3	ACADM	ACVR2B	ADIPOQ
ABCA4	ACADS	ACVRL1	ADIPOR1
ABCB1	ACADSB	ACY1	ADK
ABCB11	ACADVL	ADA	ADM
ABCB4	ACAN	ADAM10	ADNP
ABCB6	ACAT1	ADAM12	ADORA2A
ABCB7	ACAT2	ADAM17	ADRA1A
ABCC1	ACBD5	ADAM19	ADRA2A
ABCC11	ACBD6	ADAM22	ADRA2B
ABCC2	ACCS	ADAM23	ADRA2C
ABCC3	ACE	ADAM33	ADRB1
ABCC4	ACKR1	ADAM7	ADRB2
ABCC6	ACLY	ADAM9	ADRB3
ABCC6P1	ACO2	ADAMTS1	ADSL
ABCC6P2	ACOX1	ADAMTS10	ADTRP
ABCC8	ACP1	ADAMTS13	AFF2
ABCC9	ACP2	ADAMTS17	AFF3
ABCD1	ACP5	ADAMTS18	AFG3L2
ABCD1P2	ACSF3	ADAMTS19	AFP
ABCD1P4	ACSL4	ADAMTS2	AGA
ABCD1P5	ACSL5	ADAMTSL2	AGBL1

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AGBL5	AKR1C2	ALG8	ANKRD11
AGGF1	AKR1C3	ALG9	ANKRD11P2
AGK	AKR1C4	ALK	ANKRD26
AGL	AKR1C8P	ALMS1	ANKRD55
AGMO	AKR1D1	ALMS1P1	ANKS1A
AGO1	AKR7A2	ALOX12	ANKS6
AGO3	AKR7A3	ALOX12B	ANO10
AGPAT2	AKR7L	ALOX15	ANO3
AGPS	AKT1	ALOX15P1	ANO5
AGRN	AKT2	ALOX5	ANO6
AGRP	AKT3	ALOX5AP	ANO7
AGT	ALAD	ALOXE3	ANOS1
AGTPBP1	ALAS2	ALPK3	ANTXR1
AGTR1	ALB	ALPL	ANTXR2
AGTR2	ALDH16A1	ALS2	ANXA5
AGXT	ALDH18A1	ALS2CL	AOAH
AGXT2	ALDH1A1	ALX1	AP1S1
AHCY	ALDH1A2	ALX3	AP1S2
AHDC1	ALDH2	ALX4	AP3B1
AHI1	ALDH3A2	AMACR	AP3B2
AHR	ALDH4A1	AMBN	AP3D1
AHRR	ALDH5A1	AMELX	AP4B1
AHSG	ALDH6A1	AMELY	AP4E1
AHSP	ALDH7A1	AMER1	AP4M1
ACHE	ALDH7A1P1	AMH	AP4S1
AICDA	ALDOA	AMHR2	AP5Z1
AIFM1	ALDOAP2	AMN	APAF1
AG1	ALDOB	AMPD1	APBA2
AIMP1	ALG1	AMPD3	APBB1IP
AIP	ALG11	AMT	APBB2
AIPL1	ALG12	ANG	APC
AIRE	ALG13	ANGPTL3	APCDD1
AK1	ALG14	ANGPTL4	APEX1
AK2	ALG1L	ANGPTL5	APIP
AK7	ALG1L15P	ANGPTL6	APOA1
AK8	ALG1L2	ANK1	APOA2
AKAP10	ALG1L9P	ANK2	APOA4
AKAP2	ALG2	ANK3	APOA5
AKAP9	ALG3	ANKH	APOB
AKR1B1	ALG5	ANKK1	APOBEC1
AKR1C1	ALG6	ANKRD1	APOBEC3H

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APOC1	ARHGEF7	ATAD3A	ATXN1
APOC2	ARHGEF9	ATAD3B	ATXN10
APOC3	ARID1A	ATAD3C	ATXN2
APOC4	ARID1B	ATCAY	ATXN2-AS
APOC4-APOC2	ARID4A	ATF3	ATXN3
APOD	ARID4B	ATF6	ATXN3L
APOE	ARIH1	ATG16L1	ATXN7
APOH	ARL11	ATG7	AUH
APOL1	ARL13B	ATIC	AURKA
APOL3	ARL14EP	ATL1	AURKAP1
APOL4	ARL2BP	ATM	AURKC
APP	ARL3	ATN1	AUTS2
APPL1	ARL6	ATOH7	AVP
APRT	ARMS2	ATP10A	AVPR1A
APTX	ARPC3	ATP10D	AVPR2
AQP1	ARSA	ATP11A	AXIN1
AQP2	ARSB	ATP13A2	AXIN2
AQP3	ARSE	ATP13A4	AXL
AQP4	ART4	ATP1A2	AZIN2
AQP5	ARX	ATP1A3	B2M
AQP7	AS3MT	ATP1A4	B3GALNT1
AQP7P1	ASAH1	ATP1B1	B3GALNT2
AR	ASB10	ATP2A1	B3GALT1
ARF4	ASCC1	ATP2A2	B3GALT2
ARFGEF2	ASCC3	ATP2A3	B3GALT5
ARG1	ASCL1	ATP2B2	B3GALT6
ARHGAP11B	ASIC3	ATP2B3	B3GAT1
ARHGAP18	ASIP	ATP2B4	B3GAT2
ARHGAP24	ASL	ATP2C1	B3GAT3
ARHGAP26	ASMT	ATP6AP2	B3GAT3P1
ARHGAP27P1-BPTFP1-KPNA2P3	ASNS	ATP6V0A2	B3GLCT
ARHGAP29	ASPA	ATP6V0A4	B3GNT2
ARHGAP31	ASPM	ATP6V1B1	B3GNT3
ARHGAP45	ASPN	ATP7A	B3GNT4
ARHGAP6	ASPRV1	ATP7B	B3GNT5
ARHGAP9	ASS1	ATP8A2	B3GNT6
ARHGDIA	ASS1P1	ATP8B1	B3GNT7
ARHGEF10	ASS1P9	ATPAF2	B3GNT8
ARHGEF12	ASTE1	ATR	B4GALNT1
ARHGEF18	ASXL1	ATRNL1	B4GALNT2
ARHGEF6	ASXL3	ATRX	B4GALNT3

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B4GALNT4	BCL2L2-PABPN1	BMPR1AP2	C12orf57
B4GALT1	BCL6	BMPR1B	C12orf65
B4GALT2	BCL9	BMPR2	C15orf62
B4GALT3	BCO1	BMS1	C16orf58
B4GALT4	BCOR	BMS1P1	C19orf12
B4GALT5	BCORL1	BMS1P10	C1GALT1
B4GALT6	BCR	BMS1P14	C1GALT1C1
B4GALT7	BCRP1	BMS1P16	C1GALT1P2
B4GAT1	BCRP3	BMS1P2	C1QA
B9D1	BCRP5	BMS1P20	C1QB
B9D2	BCS1L	BMS1P21	C1QC
BAAT	BDNF	BMS1P4	C1QTNF3
BAG3	BDP1	BMS1P7	C1R
BANF1	BEAN1	BMS1P8	C1S
BANF1P3	BEST1	BNC2	C21orf91
BANK1	BFSP1	BOC	C2CD5
BAP1	BFSP2	BOLA3	C2orf27A
BARD1	BGN	BOLA3P3	C2orf42
BARX2	BHLHA9	BPGM	C3
BAX	BHLHE41	BRAF	C3AR1
BAZ1B	BCHE	BRAT1	C4orf19
BBIP1	BICC1	BRCA1	C5
BBS1	BIN1	BRCA2	C5AR2
BBS10	BLK	BRCC3	C5orf66
BBS12	BLM	BRD1	C6
BBS2	BLMH	BRD2	C7
BBS4	BLNK	BRF1	C8A
BBS5	BLOC1S3	BRIP1	C8B
BBS7	BLOC1S5	BRSK2	C8orf37
BBS9	BLOC1S6	BRWD1	C9
BCAM	BLVRA	BRWD3	C9orf129
BCAT2	BMI1	BSCL2	C9orf72
BCKDHA	BMP1	BSG	CA1
BCKDHB	BMP15	BSG-AS1	CA12
BCKDK	BMP2	BSND	CA2
BCL10	BMP4	BTBD9	CA4
BCL11A	BMP5	BTD	CA8
BCL2	BMP7	BTK	CABIN1
BCL2L1	BMPER	BTNL2	CABP2
BCL2L11	BMPR1A	BUB1	CABP4
BCL2L2	BMPR1AP1	BUB1B	CACNA1A



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CACNA1C	CARTPT	CCDC39	CD3E
CACNA1D	CASK	CCDC40	CD3G
CACNA1E	CASP1	CCDC50	CD4
CACNA1F	CASP10	CCDC65	CD40
CACNA1G	CASP12	CCDC66	CD40LG
CACNA1H	CASP1P2	CCDC78	CD44
CACNA1S	CASP2	CCDC8	CD46
CACNA2D1	CASP8	CCDC88C	CD5
CACNA2D2	CASQ2	CCKAR	CD55
CACNA2D3	CASR	CCKBR	CD59
CACNA2D4	CAT	CCL11	CD74
CACNB2	CATSPER1	CCL2	CD79A
CACNB4	CATSPER2	CCL3	CD79B
CACNG2	CATSPER2P1	CCL3L3	CD80
CACNG3	CATSPER3	CCL5	CD81
CACNG4	CATSPER4	CCM2	CD86
CADM1	CAV1	CCND1	CD8A
CADPS2	CAV3	CCND2	CD96
CALCA	CAVIN1	CCNO	CDA
CALCB	CAVIN4	CCNQ	CDAN1
CALCR	CBFB	CCR2	CDC42
CALCRL	CBL	CCR3	CDC42BPB
CALHM1	CBLB	CCR5	CDC6
CALM1	CBR1	CCR7	CDC73
CALM2	CBR3	CCT5	CDH1
CALM3	CBS	CD109	CDH13
CALR	CBX2	CD151	CDH15
CALR3	CBX4	CD177	CDH23
CAMK1	CBY1	CD177P1	CDH3
CAMK4	CC2D1A	CD19	CDH5
CAMKMT	CC2D2A	CD200	CDHR1
CAMSAP2	CC2D2B	CD207	CDK11A
CAMTA1	CCBE1	CD209	CDK13
CANT1	CCDC103	CD244	CDK16
CAP2	CCDC107	CD247	CDK4
CAPN10	CCDC114	CD27	CDK5R1
CAPN3	CCDC127	CD2AP	CDK5RAP2
CARD11	CCDC14	CD320	CDK6
CARD14	CCDC22	CD36	CDK7
CARD16	CCDC28B	CD38	CDKAL1
CARD9	CCDC33	CD3D	CDKL3



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CDKL5	CFAP57	CLDN19	CNTNAP4
CDKN1A	CFB	CLEC10A	COA5
CDKN1B	CFD	CLEC3B	COA6
CDKN1C	CFH	CLEC4M	COASY
CDKN2A	CFHR1	CLEC7A	COG1
CDKN2B	CFHR2	CLIC2	COG2
CDKN2C	CFHR5	CLIP2	COG3
CDON	CFI	CLK2	COG4
CDRT1	CFL2	CLK2P1	COG5
CDT1	CFLAR	CLMP	COG6
CDX2	CFP	CLN3	COG7
CDYL	CFTR	CLN5	COG8
CEACAM16	CGB1	CLN6	COCH
CEBPA	CGB2	CLN8	COL10A1
CEBPE	CGB3	CLOCK	COL11A1
CECR2	CGB5	CLPB	COL11A2
CEL	CGB7	CLPP	COL17A1
CELA2A	CGB8	CLPTM1	COL18A1
CELP	CIB2	CLPTM1L	COL1A1
CELSR1	CIC	CLRN1	COL1A2
CELSR2	CIDEC	CLTCL1	COL21A1
CEMIP	CIDECP	CLU	COL25A1
CENPJ	CIITA	CMPK1	COL2A1
CENPP	CILP	CNBP	COL3A1
CEP104	CISD2	CNGA1	COL4A1
CEP135	CISH	CNGA3	COL4A2
CEP152	CITED2	CNGB1	COL4A3
CEP164	CKM	CNGB3	COL4A4
CEP290	CLCF1	CNKSRI	COL4A5
CEP41	CLCN1	CNKSRI	COL4A6
CEP57	CLCN2	CNNM2	COL5A1
CEP63	CLCN3	CNNM4	COL5A2
CEP83	CLCN4	CNOT3	COL6A1
CEP85L	CLCN5	CNOT4	COL6A2
CERKL	CLCN6	CNPY3	COL6A3
CERS6	CLCN7	CNR1	COL7A1
CES1	CLCNKA	CNR2	COL8A2
CES1P2	CLCNKB	CNTF	COL9A1
CES2	CLDN1	CNTN1	COL9A2
CETP	CLDN14	CNTN4	COL9A3
CFAP53	CLDN16	CNTNAP2	COLEC11



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COLQ	CREB1	CSNK1G1	CUL4B
COMMD1	CREB3L3	CSNK2A1	CUL5
COMP	CREBBP	CSNK2A2	CUL7
COMT	CRELD1	CSNK2A3	CUL9
COQ2	CRISP2	CSPP1	CUX2
COQ5	CRKL	CSRP3	CX3CR1
COQ6	CRLF1	CST3	CXCL12
COQ8A	CRP	CST6	CXCL5
COQ9	CRTAP	CSTA	CXCL6
CORIN	CRX	CSTB	CXCR1
CORO1A	CRYAA	CSTF2	CXCR2
COX10	CRYAB	CSTF2T	CXCR4
COX14	CRYBA1	CTC1	CY5A
COX15	CRYBA4	CTCF	CY5R3
COX4I1	CRYBB1	CTDP1	CY5R4
COX4I2	CRYBB2	CTF1	CYBA
COX6A1P2	CRYBB2P1	CTGF	CYBB
COX6B1	CRYBB3	CTH	CYBRD1
COX7B	CRYGA	CTHRC1	CYCSP38
COX7BP1	CRYGB	CTLA4	CYFIP1
COX7BP2	CRYGC	CTNNA1	CYLD
CP	CRYGD	CTNNA3	CYP11A1
CPA6	CRYGEP	CTNNB1	CYP11B1
CPB2	CRYGFP	CTNND2	CYP11B2
CPE	CRYGS	CTNS	CYP17A1
CPLANE1	CRYM	CTRC	CYP19A1
CPLX2	CSAG1	CTSA	CYP1A2
CPN1	CSDE1	CTSB	CYP1B1
CPOX	CSF1	CTSC	CYP21A1P
CPP	CSF1R	CTSD	CYP21A2
CPS1	CSF2	CTSG	CYP24A1
CPT1A	CSF2RA	CTSH	CYP26B1
CPT2	CSF2RB	CTSK	CYP26C1
CPZ	CSF3R	CTTNBP2	CYP27A1
CR1	CSGALNACT1	CUBN	CYP27B1
CR1L	CSH1	CUBNP1	CYP2A13
CR2	CSH2	CUBNP2	CYP2A6
CRADD	CSHL1	CUBNP3	CYP2A7
CRB1	CSMD1	CUEDC1	CYP2B6
CRB2	CSMD3	CUL2	CYP2B7P
CRBN	CSNK1D	CUL3	CYP2C18

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CYP2C19	DCK	DHX37	DMXL1
CYP2C8	DCLRE1C	DHX38	DNAAF1
CYP2C9	DCLRE1CP1	DIABLO	DNAAF2
CYP2D6	DCN	DIAPH1	DNAAF3
CYP2D7	DCTD	DIAPH2	DNAAF4
CYP2D8P	DCTN1	DIAPH3	DNAAF5
CYP2E1	DCX	DICER1	DNAH11
CYP2F1	DCXR	DINOL	DNAH5
CYP2F2P	DDB2	DIP2A	DNAH9
CYP2J2	DDC	DIP2B	DNAI1
CYP2R1	DDHD1	DIP2C	DNAI2
CYP2U1	DDHD2	DIRC2	DNAJB2
CYP3A4	DDOST	DIS3L2	DNAJB6
CYP3A5	DDR2	DISC1	DNAJB6P4
CYP3A7	DDRGK1	DISP1	DNAJB7
CYP4A11	DDX25	DKC1	DNAJC19
CYP4A22	DDX3X	DKFZP434H168	DNAJC30
CYP4F11	DDX3Y	DKK3	DNAJC5
CYP4F12	DDX58	DLAT	DNAJC6
CYP4F2	DEAF1	DLC1	DNAL1
CYP4F22	DEF6	DLD	DNASE1
CYP4F24P	DEFB126	DLEC1	DNASE1L3
CYP4F3	DENND4A	DLG1	DNASE2
CYP4V2	DEPDC5	DLG2	DNM1
CYP7A1	DES	DLG3	DNM1L
CYP7B1	DGCR2	DLG4	DNM1P46
CYR61	DGCR5	DLGAP3	DNM1P47
CYS1	DGKD	DLL1	DNM2
D2HGDH	DGKE	DLL3	DNMT1
DAD1	DGKH	DLL4	DNMT3A
DAG1	DGUOK	DLX3	DNMT3B
DACH1	DHCR24	DLX4	DNMT3L
DAO	DHCR7	DLX5	DOC2A
DARS2	DHDDS	DLX6	DOCK3
DAZ4	DHFR	DMAC2	DOCK4
DAZL	DHH	DMC1	DOCK6
DBH	DHODH	DMD	DOCK7
DBT	DHRS4	DMGDH	DOCK8
DCAF17	DHRS4L1	DMP1	DOCK9
DCBLD1	DHRS4L2	DMPK	DOK1
DCC	DHTKD1	DMRT1	DOK2



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DOK5	DUOX2	EFEMP2	EMC4
DOK7	DUOXA2	EFHC1	EMD
DOLK	DUS4L	EFHC2	EME1
DOLPP1	DUX4L26	EFNA5	EMG1
DOT1L	DUX4L8	EFNB1	EMX1
DPAGT1	DUX4L9	EFR3A	EMX2
DPCD	DVL2	EFTUD2	EN2
DPM1	DXO	EGF	ENAM
DPM2	DYM	EGFR	ENG
DPM3	DYNAP	EGLN1	ENO3
DPP4-DT	DYNC1H1	EGLN1P1	ENOX1
DPP6	DYNC2H1	EGR2	ENPP1
DPP9	DYRK1A	EHBP1	ENTPD1
DPY19L2	DYSF	EHD2	EOGT
DPY19L2P1	E2F1	EHHADH	EOMES
DPY19L2P2	E2F4	EHMT1	EP300
DPY19L2P3	E2F5	EIF2AK2	EPAS1
DPY19L2P4	EARS2	EIF2AK3	EPB41
DPYD	EBAG9	EIF2B1	EPB41L1
DPYS	EBF3	EIF2B2	EPB41L2
DRD1	EBF4	EIF2B3	EPB42
DRD2	EBP	EIF2B4	EPC2
DRD3	ECE1	EIF2B5	EPCAM
DRD4	ECE2	EIF2D	EPHA2
DRD5	ECI1	EIF2S3	EPHA3
DRD5P1	ECM1	EIF2S3B	EPHA5
DSC2	ECM2	EIF4E	EPHA7
DSC3	ECSIT	EIF4G1	EPHB2
DSCAM	EDA	EIF4H	EPHB6
DSE	EDA2R	EIF4HP1	EPHX1
DSG1	EDAR	ELAC2	EPHX2
DSG2	EDARADD	ELANE	EPM2A
DSG3	EDN1	ELF4	EPO
DSG4	EDN3	ELK1	EPOR
DSP	EDNRA	ELK3	EPPK1
DSPP	EDNRB	ELMOD2	EPX
DST	EDRF1	ELN	ERAP1
DSTYK	EEF1A2	ELOVL4	ERAP2
DTNA	EEF1AKMT4	ELP1	ERBB2
DTNBP1	EFCAB5	ELP2	ERBB3
DUOX1	EFEMP1	ELP4	ERBB4

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ERCC1	EZH2	FANCC	FEM1AP2
ERCC2	F10	FANCD2	FEM1AP4
ERCC3	F11	FANCD2P1	FEM1B
ERCC4	F12	FANCD2P2	FERMT1
ERCC5	F13A1	FANCE	FERMT3
ERCC6	F13B	FANCF	FEZF2
ERCC8	F2	FANCG	FFAR1
ERLIN2	F2RL1	FANCI	FFAR4
ERMAP	F5	FANCL	FGA
ERRFI1	F7	FANCM	FGB
ESCO2	F8	FARS2	FGD1
ESPN	F9	FAS	FGD3
ESPNP	FA2H	FASLG	FGD4
ESR1	FAAH	FASN	FGF10
ESR2	FAAH2	FASTKD2	FGF12
ESRRB	FABP1	FAT4	FGF14
ESS2	FABP2	FBH1	FGF14-IT1
ETFA	FADD	FBLN1	FGF2
ETFB	FAH	FBLN5	FGF23
ETFDH	FAM120A	FBN1	FGF3
ETHE1	FAM126A	FBN2	FGF8
ETV4	FAM13A	FBP1	FGF9
ETV6	FAM161A	FBXL4	FGFR1
EVC	FAM161B	FBXL6	FGFR2
EVC2	FAM172A	FBXO10	FGFR3
EVI5	FAM205A	FBXO11	FGFR4
EWSR1	FAM205BP	FBXO7	FGFRL1
EXO1	FAM20A	FBXW11	FGG
EXO5	FAM20C	FBXW4	FH
EXOC4	FAM47B	FBXW4P1	FHIT
EXOSC3	FAM47C	FBXW7	FHL1
EXOSC3P1	FAM83H	FCER1G	FHL2
EXPH5	FAM86B3P	FCGR2A	FIG4
EXT1	FAM86C2P	FCGR2B	FIGLA
EXT2	FAM86DP	FCGR2C	FIP1L1
EXTL1	FAM86EP	FCN1	FKBP10
EXTL2	FAM8A1	FCN2	FKBP14
EXTL3	FAM91A1	FCN3	FKBP1A
EYA1	FAN1	FDFT1	FKBP1C
EYA4	FANCA	FECH	FKBP4
EYS	FANCB	FEM1A	FKBP5

**Zoznam génov, CES v3 kit root2, Sophia Genetics**

FKBP6	FOXE1	FTLP2	GAL3ST1
FKBP8	FOXE3	FTLP3	GAL3ST2
FKRP	FOXF1	FTO	GAL3ST3
FKTN	FOXF2	FTSJ1	GAL3ST4
FLAD1	FOXG1	FUCA1	GALC
FLCN	FOXH1	FUS	GALE
FLG	FOXI1	FUT1	GALK1
FLI1	FOXI2	FUT2	GALNS
FLJ42627	FOXI3	FUT3	GALNT11
FLNA	FOXJ1	FUT5	GALNT12
FLNB	FOXK1	FUT6	GALNT13
FLNC	FOXL2	FUT7	GALNT14
FLOT1	FOXM1	FUT8	GALNT17
FLT1	FOXN1	FUZ	GALNT18
FLT3	FOXO1	FXN	GALNT2
FLT4	FOXP1	FXYD2	GALNT3
FLVCR1	FOXP2	FYCO1	GALNT5
FLVCR2	FOXP3	FZD3	GALNT6
FMN1	FOXRED1	FZD4	GALNT7
FMN2	FPGS	FZD6	GALNT8
FMO1	FPR1	FZD9	GALNT9
FMO2	FRAS1	G6PC	GALNTL6
FMO3	FREM1	G6PC2	GALT
FMO4	FREM2	G6PC3	GAMT
FMO5	FREM3	G6PD	GAN
FMOD	FRK	GAA	GAP43
FMR1	FRMD5	GABARAPL1	GARS
FMR1-AS1	FRMD7	GABBR1	GAS1
FN1	FRMPD4	GABRA1	GAS2L2
FN3K	FRY	GABRA2	GAS2L3
FOLH1	FRZB	GABRA6	GAS8
FOLH1B	FSBP	GABRB3	GATA1
FOLR1	FSCB	GABRD	GATA2
FOLR1P1	FSCN2	GABRG1	GATA3
FOLR3	FSHB	GABRG2	GATA4
FOXA1	FSHR	GABRR1	GATA5
FOXA2	FST	GABRR2	GATA6
FOXA3	FSTL1	GAD1	GATAD1
FOXC1	FTCD	GAD2	GATAD2B
FOXC2	FTHL17	GADD45A	GATM
FOXD3	FTL	GAK	GBA

**Zoznam génov, CES v3 kit root2, Sophia Genetics**

GBAP1	GIF	GLYCTK	GPC3
GBE1	GIGYF2	GM2A	GPC4
GBGT1	GIMAP8	GMDS	GPC6
GC	GIP	GMPPA	GPD1
GCDH	GIPC3	GMPPB	GPD1L
GCGR	GIPR	GMPS	GPD2
GCK	GIT1	GMPSP1	GPHN
GCKR	GJA1	GNAI2	GPI
GCLC	GJA1P1	GNAI3	GPIHBP1
GCLM	GJA3	GNAO1	GPNUMB
GCM2	GJA5	GNAQ	GPR1
GCNT1	GJA8	GNAQP1	GPR12
GCNT2	GJB1	GNAS	GPR132
GDAP1	GJB2	GNAT1	GPR139
GDF1	GJB3	GNAT2	GPR143
GDF2	GJB4	GNB1L	GPR179
GDF3	GJB6	GNB3	GPR37
GDF5	GJC1	GNE	GPS1
GDF6	GJC2	GNG7	GPSM2
GDF9	GJC3	GNMT	GPT
GDI1	GK	GNPAT	GPX4
GDNF	GK3P	GNPTAB	GRB10
GFAP	GLA	GNPTG	GREM1
GFER	GLB1	GNRH1	GRHL1
GFI1	GLCCI1	GNRHR	GRHL2
GFI1B	GLDC	GNS	GRHL3
GFM1	GLDCP1	GOLGA3	GRHPR
GFPT1	GLE1	GOLGA5	GRIA1
GFRA1	GLI2	GOLGA5P1	GRIA3
GFRA2	GLI3	GON4L	GRID1
GGACT	GLIS2	GOPC	GRID2
GGCX	GLIS3	GORAB	GRIK1
GGH	GLMN	GOSR2	GRIK2
GH1	GLO1	GOT1	GRIK4
GH2	GLP1R	GP1BA	GRIN1
GHR	GLRA1	GP1BB	GRIN2A
GHRH	GLRB	GP6	GRIN2B
GHRHR	GLRX5	GP9	GRIN3A
GHRL	GLUD1	GPAM	GRIP1
GHSR	GLUD2	GPATCH8	GRK1
GCH1	GLUL	GPBAR1	GRK3

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GRK4	GUSB	HCRT	HLA-DPA1
GRM1	GUSBP1	HCRTR2	HLA-DQA1
GRM5	GUSBP10	HDAC4	HLA-DQA2
GRM6	GUSBP11	HDAC6	HLA-DQB1
GRM7	GUSBP2	HDAC8	HLA-DQB2
GRN	GUSBP4	HDAC9	HLA-DRB1
GRPR	GYG1	HDC	HLA-G
GRXCR1	GYG2	HDGFL2	HLA-H
GSC	GYPA	HDLBP	HLA-J
GSDME	GYPB	HDX	HLCS
GSE1	GYPC	HECW2	HLX
GSN	GYPE	HEPACAM	HMBS
GSN-AS1	GYS1	HEPH	HMCN1
GSPT1	GYS2	HERC1	HMGA2
GSPT2	H6PD	HES7	HMGCL
GSR	HABP2	HESX1	HMGCR
GSS	HACE1	HEXA	HMGCS2
GSTA1	HADH	HEXA-AS1	HMMR
GSTA2	HADHA	HEXB	HMOX1
GSTA3	HADHAP1	HEY1	HMX1
GSTA7P	HADHAP2	HEY2	HMX2
GSTM1	HADHB	HFE	HNF1A
GSTM2	HAL	HGD	HNF1B
GSTM3	HAMP	HGF	HNF4A
GSTM4	HAND1	HGSNAT	HNMT
GSTM5	HAND2	HIBCH	HNRNPH3
GSTO1	HAPLN1	HIF1A	HNRNPK
GSTP1	HARS	HIGD2A	HNRNPU
GSTZ1	HARS2	HIGD2B	HNRNPUP1
GTF2H5	HAVCR1	HINT1	HOGA1
GTF2I	HAX1	HIP1	HOXA1
GTF2IP1	HBB	HIST1H2AE	HOXA10
GTF2IP4	HBD	HIST1H4B	HOXA11
GTF2IRD1	HBE1	HIST3H3	HOXA13
GTF2IRD1P1	HBM	HIVEP2	HOXA2
GTPBP3	HCCS	HJV	HOXA3
GUCA1A	HCFC1	HK1	HOXA4
GUCA1B	HCN1	HK2	HOXB1
GUCY2C	HCN2	HK2P1	HOXB13
GUCY2D	HCN3	HLA-A	HOXB6
GUCY2F	HCN4	HLA-C	HOXB8



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HOXC13	HSPB7	CHIC2	ICAM1
HOXD10	HSPB8	CHIT1	ICAM4
HOXD13	HSPD1	CHKB	ICK
HOXD4	HSPG2	CHL1	ICOS
HP	HTN1	CHM	ID3
HPCAL4	HTN3	CHMP1A	ID4
HPD	HTR1A	CHMP2B	IDH1
HPGD	HTR1B	CHMP4B	IDH2
HPR	HTR2A	CHMP4BP1	IDH3B
HPRT1	HTR2B	CHN1	IDO1
HPS1	HTR2C	CHPF	IDS
HPS3	HTR3A	CHPF2	IDUA
HPS4	HTR3B	CHRD	IER3IP1
HPS5	HTR3C	CHRD1	IFIH1
HPS6	HTR3C2P	CHRFAM7A	IFITM1
HPSE2	HTR3D	CHRM1	IFITM2
HR	HTR3E	CHRM2	IFITM3
HRAS	HTR7	CHRM3	IFITM3P2
HRG	HTR7P1	CHRNA1	IFITM3P5
HSD11B1	HTRA1	CHRNA2	IFITM4P
HSD11B2	HTRA2	CHRNA3	IFITM5
HSD17B10	HTT	CHRNA4	IFNAR1
HSD17B3	HUWE1	CHRNA5	IFNAR2
HSD17B4	HYAL1	CHRNA7	IFNG
HSD3B1	HYDIN	CHRNA9	IFNGR1
HSD3B2	HYDIN2	CHRN1	IFNGR2
HSD3B7	HYLS1	CHRN2	IFNL4
HSD3BP4	CHAMP1	CHRN4	IFNL4P1
HSD3BP5	CHAT	CHRNA	IFRD1
HSF1	CHD1L	CHRNE	IFT122
HSF4	CHD2	CHRNA	IFT140
HSP90AA1	CHD3	CHST14	IFT172
HSP90AA2P	CHD6	CHST3	IFT27
HSP90AA3P	CHD7	CHST5	IFT43
HSPA9	CHD8	CHST6	IFT80
HSPA9P1	CHEK2	CHST7	IFT88
HSPB1	CHEK2P2	CHST8	IGBP1
HSPB1P1	CHGA	CHSY1	IGBP1P4
HSPB1P2	CHI3L1	CHSY3	IGF1
HSPB3	CHIA	CHUK	IGF1R
HSPB6	CHIAP2	IAPP	IGF2



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IGF2BP2	IL4R	IRF4	IYD
IGF2R	IL6	IRF5	JAG1
IGFALS	IL6R	IRF6	JAG2
IGFBP7	IL6ST	IRF8	JAK2
IGHMBP2	IL7R	IRGM	JAK3
IGLL1	IL9R	IRS1	JAM3
IGLL3P	IL9RP3	IRS2	JCAD
IGSF1	IL9RP4	IRS4	JMJD1C
IHH	ILDR1	IRX1	JPH2
IKBIP	ILK	IRX2	JPH3
IKBKB	IMMP2L	IRX3	JRK
IKBKG	IMPAD1	IRX4	JUN
IKZF1	IMPDH1	IRX5	JUNB
IKZF3	IMPDH1P1	ISCU	JUP
IL10	IMPDH1P11	ISL1	KALRN
IL10RA	IMPDH1P8	ISPD	KANK1
IL10RB	IMPDH2	ITFG2-AS1	KANSL1
IL11	IMPG1	ITGA1	KARS
IL11RA	IMPG2	ITGA2	KAT2A
IL12A	INAVA	ITGA2B	KAT6A
IL12B	INF2	ITGA3	KAT6B
IL12RB1	ING1	ITGA6	KATNAL2
IL12RB2	INHA	ITGA7	KBTBD13
IL13	INMT	ITGA9	KCNA1
IL17F	INPP5B	ITGAM	KCNA2
IL17RA	INPP5D	ITGAX	KCNA4
IL18RAP	INPP5E	ITGB1	KCNA5
IL1B	INS	ITGB2	KCNA6
IL1R1	INSL3	ITGB3	KCNAB1
IL1RAPL1	INSL6	ITGB4	KCNAB2
IL1RN	INSR	ITGB6	KCNB1
IL20RB	INSRR	ITCH	KCNC1
IL21R	INVS	ITIH4	KCNC2
IL23R	IPCEF1	ITIH6	KCNC3
IL2RA	IQCB1	ITK	KCND2
IL2RB	IQGAP2	ITM2B	KCND3
IL2RG	IQGAP3	ITPA	KCNE1
IL3	IQSEC2	ITPKC	KCNE2
IL31RA	IRAK3	ITPR1	KCNE3
IL36RN	IRAK4	ITSN2	KCNE4
IL4	IRF1	IVD	KCNE5



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KCNH2	KHK	KLK1	KRT74
KCNH3	KIAA0100	KLK12	KRT75
KCNIP4	KIAA0232	KLK4	KRT76
KCNJ1	KIAA0319	KLKB1	KRT8
KCNJ10	KIAA0586	KMT2A	KRT81
KCNJ11	KIAA1549	KMT2D	KRT83
KCNJ12	KIF11	KMT5A	KRT85
KCNJ13	KIF17	KMT5B	KRT86
KCNJ18	KIF1A	KNG1	KRT8P3
KCNJ2	KIF1B	KNL1	KRT9
KCNJ5	KIF1BP	KPNA1	KRTAP1-1
KCNJ6	KIF21A	KRAS	KRTAP1-3
KCNJ8	KIF22	KRBOX4	KRTAP1-4
KCNK18	KIF27	KRIT1	KYNU
KCNK3	KIF3C	KRT1	L1CAM
KCNK9	KIF5A	KRT10	L2HGDH
KCNMA1	KIF7	KRT12	L3MBTL1
KCNMB1	KIR2DL1	KRT13	LAMA1
KCNMB4	KIR2DL3	KRT14	LAMA2
KCNN2	KIR2DS4	KRT16	LAMA3
KCNN3	KIR3DL2	KRT16P1	LAMA4
KCNQ1	KIR3DL3	KRT16P2	LAMB1
KCNQ2	KIRREL3	KRT16P3	LAMB2
KCNQ3	KISS1	KRT16P5	LAMB3
KCNQ4	KISS1R	KRT17	LAMB4
KCNQ5	KIT	KRT17P3	LAMC2
KCNS1	KITLG	KRT17P6	LAMC3
KCNT1	KIZ	KRT18	LAMP2
KCNV1	KL	KRT18P55	LAMTOR2
KCNV2	KLC1	KRT2	LAMTOR3
KCTD13	KLF1	KRT3	LARGE1
KCTD7	KLF10	KRT37	LARGE2
KDM3A	KLF11	KRT38	LARS2
KDM5A	KLF6	KRT4	LAS1L
KDM5C	KLF8	KRT5	LBR
KDM6A	KLHDC8B	KRT6A	LCA5
KDM6B	KLHL10	KRT6B	LCAT
KDR	KLHL15	KRT6C	LCE3B
KEL	KLHL3	KRT7	LCE3E
KERA	KLHL7	KRT71	LCE5A
KHDC3L	KLHL9	KRT73	LCK



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LCLAT1	LILRA6	LOC100129707	LOC102725072
LCN10	LILRB1	LOC100130331	LOC105369602
LCT	LILRB2	LOC100133073	LOC105370032
LDB1	LILRP1	LOC100287430	LOC105371022
LDB3	LILRP2	LOC100287467	LOC105371254
LDHA	LIM2	LOC100418730	LOC105371705
LDHB	LIMK1	LOC100418888	LOC105371841
LDLR	LIN28B	LOC100418938	LOC105373142
LDLRAP1	LINC00674	LOC100418957	LOC105373194
LECT2	LINC00869	LOC100419161	LOC105373757
LEF1	LINC01138	LOC100419170	LOC105374260
LEFTY1	LINC01252	LOC100419892	LOC105374794
LEFTY2	LINC01824	LOC100419928	LOC105375061
LEMD3	LINC01844	LOC100420027	LOC105375095
LEP	LINC02014	LOC100420305	LOC105375740
LEPR	LINC02356	LOC100420423	LOC105377267
LETM1	LINS1	LOC100420547	LOC105378327
LETM1P2	LIPA	LOC100420548	LOC107983976
LFNG	LIPC	LOC100420667	LOC107984213
LGALS13	LIPG	LOC100420831	LOC107984413
LGALS16	LIPH	LOC100421513	LOC107984819
LGALS2	LIPI	LOC100421580	LOC107985131
LGI1	LIPN	LOC100421620	LOC107985291
LGI4	LITAF	LOC100421822	LOC107986088
LGR5	LLOXNC01-250H12.3	LOC100422375	LOC107986193
LHB	LLGL1	LOC100422434	LOC107986412
LHCGR	LMAN1	LOC100422478	LOC107986665
LHFPL5	LMBR1	LOC100506133	LOC107986727
LHX1	LMBRD1	LOC100507002	LOC112267934
LHX3	LMF1	LOC100507586	LOC122455342
LHX4	LMNA	LOC101927089	LOC124900386
LHX8	LMNB1	LOC101928093	LOC124900546
LIAS	LMNB2	LOC101928134	LOC124901018
LIF	LMO1	LOC101928446	LOC124901089
LIFR	LMO2	LOC101929098	LOC124901301
LIG1	LMO4	LOC101929798	LOC124901337
LIG3	LMTK3	LOC102723904	LOC124902040
LIG4	LMX1B	LOC102724181	LOC124902644
LILRA1	LOC100101148	LOC102724223	LOC124902899
LILRA2	LOC100128164	LOC102724428	LOC124903019
LILRA4	LOC100128334	LOC102724652	LOC124903291



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LOC124903459	LPAL2	LYZ	MAPK10
LOC124904444	LPAR6	LZTFL1	MAPK8IP1
LOC124909346	LPIN1	LZTR1	MAPK8IP1P1
LOC127011	LPIN2	LZTS1	MAPK8IP1P2
LOC220729	LPIN3	MACROD2	MAPT
LOC284685	LPL	MAD1L1	MARS2
LOC341378	LPP	MADD	MARVELD2
LOC343508	LRAT	MAEA	MASP1
LOC344593	LRBA	MAF	MASP2
LOC347097	LRFN5	MAFA	MASTL
LOC389765	LRIT3	MAFB	MAT1A
LOC391771	LRMDA	MAGEE2	MATN3
LOC392232	LRP1	MAGEL2	MATR3
LOC400927	LRP1B	MAGI2	MAX
LOC403323	LRP2	MAGT1	MBD1
LOC407835	LRP4	MAK	MBD3
LOC440040	LRP5	MALT1	MBD4
LOC440489	LRP5L	MAML2	MBD5
LOC441996	LRP6	MAMLD1	MBL2
LOC442113	LRP8	MAN1A2	MBNL1
LOC541473	LRPPRC	MAN1B1	MBOAT7
LOC550113	LRRC4	MAN2A1	MBTPS2
LOC641695	LRRC6	MAN2B1	MC1R
LOC642502	LRRC8A	MANBA	MC2R
LOC642943	LRRFIP2	MAOA	MC3R
LOC643387	LRRIQ1	MAOB	MC4R
LOC644110	LRRK2	MAP2	MCC
LOC644584	LRRTM1	MAP2K1	MCCC1
LOC644762	LRSAM1	MAP2K1P1	MCCC2
LOC644936	LRTOMT	MAP2K2	MCEE
LOC653653	LTBP1	MAP2K3	MCFD2
LOC653712	LTBP2	MAP2K4	MCM4
LOC727947	LTBP3	MAP2K4P1	MCM5
LOC728424	LTBP4	MAP2K7	MCM6
LOC728613	LTBR	MAP3K1	MCM9
LOC729999	LTC4S	MAP3K14	MCOLN1
LOR	LTN1	MAP3K15	MCPH1
LOX	LUM	MAP3K8	MDGA2
LOXHD1	LY96	MAP6	MDK
LOXL1	LYN	MAP7D1	MDM2
LPA	LYST	MAPK1	MDN1

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ME2	MGST3	MIR6774	MLXIPL
MECOM	MCHR1	MIR6775	MLYCD
MECP2	MICA	MIR6777	MMAA
MED12	MICB	MIR6778	MMAB
MED13L	MICU1	MIR6793	MMADHC
MED17	MID1	MIR6795	MMACHC
MED23	MIF	MIR6797	MME
MED25	MINPP1	MIR6801	MMEL1
MEF2A	MIP	MIR6810	MMP1
MEF2C	MIPOL1	MIR6811	MMP10
MEFV	MIR1225	MIR6812	MMP13
MEGF10	MIR1228	MIR6814	MMP14
MEGF11	MIR1229	MIR6815	MMP2
MEGF8	MIR182	MIR6819	MMP20
MEIS1	MIR183	MIR6824	MMP3
MEN1	MIR222	MIR6841	MMP8
MEPE	MIR4310	MIR6843	MMP9
MERTK	MIR4632	MIR6846	MN1
MESD	MIR4648	MIR6857	MNX1
MESP2	MIR4668	MIR6869	MOCOS
MEST	MIR4673	MIR6870	MOCS1
MESTP1	MIR4685	MIR6881	MOCS2
MET	MIR4695	MIR6883	MOG
MFAP4	MIR4701	MIR6886	MOGS
MFF	MIR4728	MIR6894	MOK
MFGE8	MIR638	MIR6895	MPC1
MFN2	MIR642A	MIR7108	MPDU1
MFRP	MIR6505	MIR7113	MPDZ
MFSD8	MIR6511B2	MIR7114	MPG
MGAT1	MIR6515	MIR96	MPHOSPH8
MGAT2	MIR6731	MITF	MPI
MGAT3	MIR6735	MKKS	MPL
MGAT4A	MIR6744	MKS1	MPLKIP
MGAT4B	MIR6752	MLC1	MPO
MGAT4C	MIR6753	MLH1	MPP6
MGAT5	MIR6757	MLH3	MPST
MGAT5B	MIR6760	MLLT10	MPV17
MGLL	MIR6761	MLLT11	MPV17L
MGMT	MIR6764	MLLT3	MPZ
MGP	MIR6765	MLPH	MR1
MGST2	MIR6766	MLXIP	MRAP

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MRC1	MTHFD1	MT-TR	MYO15A
MRE11	MTHFD1P1	MT-TS1	MYO1A
MREG	MTHFR	MT-TS2	MYO1C
MRPL3	MTHFS	MT-TT	MYO1D
MRPL3P1	MTM1	MT-TV	MYO1E
MRPL44	MTMR14	MT-TW	MYO1F
MRPL48	MTMR2	MT-TY	MYO3A
MRPS16	MTMR9	MUC5B	MYO5A
MRPS22	MT-ND1	MUC7	MYO5B
MRRF	MT-ND2	MUS81	MYO5BP3
MRTFA	MT-ND3	MUSK	MYO5C
MS4A1	MT-ND4	MUT	MYO6
MS4A12	MT-ND4L	MUTYH	MYO7A
MS4A2	MT-ND5	MVK	MYO7B
MSH2	MT-ND6	MXI1	MYO9B
MSH3	MTNR1A	MYB	MYOC
MSH6	MTNR1B	MYBPC1	MYOCD
MSMB	MTO1	MYBPC3	MYOD1
MSMO1	MTOR	MYC	MYOM1
MSR1	MTPAP	MYCN	MYOT
MSRA	MTR	MYD88	MYOZ2
MSRB3	MT-RNR1	MYF5	MYPN
MST1	MT-RNR2	MYF6	MYT1
MST1L	MTRR	MYH1	MYT1L
MST1R	MTSS1	MYH11	NAA10
MSTN	MT-TA	MYH13	NAALADL2
MSTO1	MT-TC	MYH14	NAGA
MSX1	MT-TD	MYH16	NAGLU
MSX2	MT-TE	MYH2	NAGPA
MSX2P1	MT-TF	MYH3	NAGS
MTA1	MT-TG	MYH4	NAIP
MTA2	MT-TH	MYH6	NAIPP2
MTAP	MT-TI	MYH7	NAIPP4
MTAPP2	MT-TK	MYH8	NALCN
MT-ATP6	MT-TL1	MYH9	NAPRT
MT-ATP8	MT-TL2	MYL1	NARS2
MT-CO1	MT-TM	MYL2	NAT1
MT-CO2	MT-TN	MYL3	NAT2
MT-CO3	MTPP	MYLK	NAT8L
MT-CYB	MT-TP	MYLK2	NAV2
MTFMT	MT-TQ	MYLKP1	NBAS



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NBEA	NDUFAF4P4	NEUROD1	NKX3-2
NBEAL2	NDUFAF5	NEUROG3	NLGN1
NBEAP1	NDUFAF6	NEXMIF	NLGN2
NBN	NDUFAF7	NEXN	NLGN3
NBPF15	NDUFB1	NF1	NLGN4X
NBPF26	NDUFB1P1	NF1P6	NLGN4Y
NCALD	NDUFB3	NF1P8	NLRP1
NCAPD2	NDUFB3P4	NF2	NLRP12
NCAPD2P1	NDUFB9	NFATC2	NLRP14
NCF2	NDUFS1	NFATC3	NLRP2
NCF4	NDUFS2	NFATC4	NLRP3
NCKAP1	NDUFS3	NFE2L1	NLRP7
NCOA1	NDUFS4	NFIA	NLRX1
NCOA4	NDUFS5	NFIB	NME1
NCR3	NDUFS6	NFIC	NME5
NCS1	NDUFS7	NFIX	NME7
NCSTN	NDUFS8	NFKB2	NME8
NDE1	NDUFV1	NFKBIA	NMNAT1
NDN	NDUFV2	NFKBIZ	NMNAT1P1
NDOR1	NDUFV2P1	NFU1	NMT2
NDP	NDUFV3	NGF	NMU
NDRG1	NEB	NGLY1	NNT
NDST1	NEBL	NHEJ1	NOBOX
NDST2	NECTIN1	NHLRC1	NOD1
NDST3	NECTIN4	NHS	NOD2
NDST4	NEDD4	NICN1	NODAL
NDUFA1	NEDD4L	NICN2P	NOG
NDUFA10	NEFH	NIN	NOL3
NDUFA11	NEFHP1	NINJ1	NOP10
NDUFA12	NEFL	NIPA1	NOP56
NDUFA13	NEFM	NIPAL4	NOP56P1
NDUFA2	NEFMP1	NIPBL	NOS1
NDUFA4	NEGR1	NIPSNAP1	NOS1AP
NDUFA6	NEIL1	NIPSNAP3A	NOS2
NDUFA8	NEIL2	NIPSNAP3B	NOS2P1
NDUFA9	NEK1	NKAIN2	NOS3
NDUFAF1	NEK2	NKX2-1	NOTCH1
NDUFAF3	NEK8	NKX2-4	NOTCH2
NDUFAF4	NEU1	NKX2-5	NOTCH2NLB
NDUFAF4P1	NEU2	NKX2-6	NOTCH2NLC
NDUFAF4P3	NEURL2	NKX3-1	NOTCH3

**Zoznam génov, CES v3 kit root2, Sophia Genetics**

NOX3	NRCAM	OBSCN	OSTM1
NPAS2	NRG1	OBSL1	OTC
NPAS3	NRL	OCA2	OTOA
NPAT	NRP2	OCLN	OTOAP1
NPC1	NRTN	OCRL	OTOF
NPC1L1	NRXN1	ODAPH	OTOG
NPC2	NRXN2	ODC1	OTOGL
NPFFR2	NRXN3	OFD1	OTX2
NPHP1	NSD1	OGG1	OVCH2
NPHP3	NSD2	OGT	OXCT1
NPHP4	NSDHL	OLFM2	OXTR
NPHS1	NSMF	OLIG2	P2RX1
NPHS2	NSUN2	OLR1	P2RX2
NPL	NSUN7	OMG	P2RX5
NPM1	NT5C3A	OPA1	P2RX7
NPPA	NT5E	OPA3	P2RY11
NPPC	NTF3	OPCML	P2RY12
NPR2	NTF4	OPHN1	P2RY4
NPSR1	NTHL1	OPLAH	P3H1
NPY	NTNG1	OPN1SW	P3H2
NPY1R	NTRK1	OPRL1	PABPC4L
NPY2R	NTRK2	OPRM1	PACRG
NQO1	NTRK3	OPTC	PACS1
NR0B1	NUAK1	OPTN	PADI4
NR0B2	NUBPL	OR10X1	PAFAH1B1
NR1H2	NUDC	OR13G1	PAFAH1B3
NR1H3	NUDCP1	OR1B1	PAH
NR1H4	NUDCP2	OR51G1	PAK3
NR1I2	NUDT1	OR52H1	PALB2
NR1I3	NUDT15	OR52N4	PALLD
NR2E1	NUMA1	OR5AC2	PAMR1
NR2E3	NUP107	OR5H1	PANK2
NR2F1	NUP155	OR5H14	PANK2-AS1
NR2F2	NUP214	OR5H6	PAPSS2
NR3C1	NUP62	OR8K3	PARD3B
NR3C2	NXF5	ORAI1	PARK7
NR4A1	NXNL1	ORC1	PARL
NR4A2	NYX	ORC4	PARN
NR4A3	OAS1	ORC6	PARP1
NR5A1	OAS2	OSBPL2	PASK
NRAS	OAT	OSMR	PAX1

**Zoznam génov, CES v3 kit root2, Sophia Genetics**

PAX2	PCDHB9	PDYN	PHGDH
PAX3	PCGF2	PDZD7	PHIP
PAX4	PCK2	PECR	PHKA1
PAX5	PCLO	PEPD	PHKA2
PAX6	PCM1	PER1	PHKB
PAX7	PCMT1	PER2	PHKG2
PAX8	PCNT	PEX1	PHLPP2
PAX9	PCOLCE	PEX10	PHOX2A
PBX1	PCP4	PEX11B	PHOX2B
PC	PCSK1	PEX12	PHYH
PCARE	PCSK5	PEX13	PICALM
PCBD1	PCSK9	PEX14	PICK1
PCBP3	PCYT1A	PEX16	PIF1
PCCA	PDCD1	PEX19	PIGA
PCCB	PDCD10	PEX2	PIGL
PCDH11X	PDCD6	PEX26	PIGM
PCDH15	PDE11A	PEX3	PIGN
PCDH18	PDE4B	PEX5	PIGO
PCDH19	PDE4D	PEX6	PIGR
PCDH8	PDE6A	PEX7	PIGT
PCDH8P1	PDE6B	PFKM	PIGV
PCDHA1	PDE6C	PFN1	PIGZ
PCDHA10	PDE6G	PFN1P1	PIH1D3
PCDHA13	PDE6H	PGAM2	PIK3CA
PCDHB10	PDE8B	PGAM5	PIK3CB
PCDHB11	PDGFB	PGAP2	PIK3CD
PCDHB12	PDGFRA	PGAP3	PIK3R1
PCDHB13	PDGFRB	PGK1	PIK3R2
PCDHB14	PDGFRL	PGK1P1	PIK3R5
PCDHB15	PDHA1	PGK1P2	PIKFYVE
PCDHB16	PDHB	PGK2	PIM1
PCDHB17P	PDHX	PGM1	PIN1
PCDHB18P	PDK1	PGR	PINK1
PCDHB19P	PDLIM1P4	PGRMC1	PIP5K1C
PCDHB2	PDLIM3	PHB	PITPNA
PCDHB3	PDLIM4	PHEX	PITPNM3
PCDHB4	PDP1	PHF11	PITX1
PCDHB5	PDPK1	PHF2	PITX2
PCDHB6	PDSS1	PHF3	PITX3
PCDHB7	PDSS2	PHF6	PJVK
PCDHB8	PDX1	PHF8	PKD1



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PKD1P1	PLP1	POLRMTP1	PPP1R12B
PKD1P2	PLP2	POM121L1P	PPP1R17
PKD1P3	PLSCR3	POMC	PPP1R1A
PKD1P4	PLTP	POMGNT1	PPP1R3A
PKD1P5	PML	POMGNT2	PPP1R3C
PKD1P6-NPIPP1	PMM2	POMK	PPP2R1A
PKD2	PMP22	POMP	PPP2R1B
PKHD1	PMS1	POMT1	PPP2R2B
PKLR	PMS2	POMT2	PPP2R2C
PKM	PMS2CL	PON1	PPP2R5D
PKN3	PMS2P1	PON2	PPP3CA
PKP1	PMS2P9	PON3	PPP3R1
PKP2	PNKD	POP1	PPT1
PLA2G10	PNKP	POR	PQBP1
PLA2G2A	PNLIP	PORCN	PRB1
PLA2G4A	PNMT	POSTN	PRB2
PLA2G5	PNP	POT1	PRB3
PLA2G6	PNPLA1	POTEE	PRB4
PLA2G7	PNPLA2	POU1F1	PRCC
PLAG1	PNPLA6	POU2AF1	PRCD
PLAGL1	PNPO	POU3F4	PRCP
PLAU	PNPT1	POU4F3	PRDM16
PLCB1	POC1A	POU5F1	PRDM5
PLCB4	POC1B	POU5F1B	PRDM7
PLCD1	PODXL	POU5F1P3	PRDM9
PLCE1	POF1B	POU5F1P4	PRELID2
PLCG2	POFUT2	POU6F2	PREPL
PLCZ1	POGZ	PPA2	PRF1
PLD2	POLB	PPARA	PRG4
PLEC	POLD1	PPARG	PRICKLE1
PLEKHG4	POLE2	PPARGC1B	PRICKLE2
PLEKHG5	POLG	PPCS	PRKACA
PLG	POLG2	PPIB	PRKAG2
PLGLA	POLH	PPIL1P1	PRKAG3
PLGLB2	POLHP1	PPM1B	PRKAR1A
PLIN1	POLL	PPM1D	PRKCA
PLK4	POLR1C	PPM1E	PRKCG
PLN	POLR1D	PPM1G	PRKCSH
PLOD1	POLR3A	PPM1K	PRKDC
PLOD2	POLR3B	PPOX	PRKG2
PLOD3	POLRMT	PPP1CB	PRKCH

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PRKN	PRX	PTPN12	RAC2
PRKRA	PSAP	PTPN14	RAD21
PRLH	PSAT1	PTPN2	RAD21L1
PRLR	PSAT1P3	PTPN22	RAD50
PRM1	PSAT1P4	PTPN6	RAD51
PRM2	PSEN1	PTPRC	RAD51B
PRMT3	PSEN2	PTPRJ	RAD51C
PRMT7	PSENE1	PTPRK	RAD51D
PRMT9	PSMA4	PTPRN2	RAD52
PRND	PSMA6	PTPRO	RAD54B
PRNP	PSMB8	PTPRQ	RAD54L
PROC	PSMB8-AS1	PTPRT	RAF1
PROCR	PSMC3IP	PTS	RAG1
PRODH	PSMD7	PUF60	RAG2
PRODHLP	PSPH	PURA	RAI1
PROK1	PSPHP1	PUS1	RALGAPA1
PROK2	PSPN	PXDN	RALGAPA1P1
PROKR1	PSTPIP1	PYCR1	RALGDS
PROKR2	PSTPIP2	PYGL	RANBP2
PROM1	PTAFR	PYGM	RANGRF
PROP1	PTCD1	PYY	RAP1GDS1
PROS1	PTEN	PZP	RAPSN
PROX1	PTENP1	QDPR	RARA
PROZ	PTF1A	QKI	RARS2
PRPF3	PTGDR	RAB11FIP5	RASA1
PRPF31	PTGER2	RAB18	RASGEF1B
PRPF4	PTGER4	RAB23	RASGRP1
PRPF6	PTGIR	RAB25	RASGRP2
PRPF8	PTGIS	RAB27A	RASSF5
PRPH	PTGS1	RAB27B	RAX
PRPH2	PTGS2	RAB29	RAX2
PRPS1	PTH	RAB2A	RB1
PRPS1L1	PTH1R	RAB39B	RB1CC1
PRRT2	PTHLH	RAB3GAP1	RBBP8
PRRX1	PTCH1	RAB3GAP2	RBFOX1
PRSS1	PTCH2	RAB40AL	RBL1
PRSS12	PTCHD1	RAB7A	RBL2
PRSS3	PTCHD3	RABGGTA	RBM10
PRSS56	PTK7	RABL6	RBM15
PRSS8	PTPN1	RAC1	RBM20
PRTG	PTPN11	RAC1P2	RBM28



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RBMXL2	RGR	RNF212	RPL5P32
RBMXL3	RGS2	RNF213	RPL5P34
RBP3	RGS5	RNF43	RPL6
RBP4	RGS7	RNF6	RPN2
RBPJ	RGS9	ROBO1	RPS15
RC3H1	RGS9BP	ROBO2	RPS15AP28
RCBTB1	RHAG	ROBO3	RPS15P1
RCBTB2	RHBDF2	ROCK1	RPS15P2
RCC2P5	RHCE	ROCK1P1	RPS15P4
RD3	RHD	ROGDI	RPS15P7
RDH12	RHO	ROM1	RPS17
RDH5	RHOG	ROR2	RPS19
RDH8	RHOH	RORA	RPS19P1
RDX	RHPN2	ROS1	RPS21P1
RECQL4	RHPN2P1	RP1	RPS24
REEP1	RCHY1	RP1L1	RPS26
REEP6	RIC1	RP2	RPS26P15
REL	RIMS1	RP9	RPS26P25
RELN	RIMS2	RP9P	RPS26P28
REN	RIMS3	RPA1	RPS26P3
REPS2	RIN2	RPA4	RPS26P32
RERE	RIOK2	RPE65	RPS26P50
REREP3	RIPK4	RPGR	RPS26P58
RET	RIT1	RPGRIP1	RPS26P6
RETN	RIT2	RPGRIP1L	RPS26P7
RETREG1	RLBP1	RPIA	RPS26P8
RFC2	RLIM	RPL10	RPS5
RFT1	RLIMP3	RPL10P15	RPS6KA3
RFX2	RMC1	RPL10P16	RPS6KL1
RFX5	RMDN2	RPL10P3	RPS7
RFX6	RMND1	RPL10P9	RPS7P1
RFX8	RNASEH2A	RPL11	RPS7P11
RFXANK	RNASEH2B	RPL11P3	RPTOR
RFXAP	RNASEH2C	RPL18P7	RRAS
RGL1	RNASEL	RPL24	RRAS2
RGMA	RNASET2	RPL35A	RRH
RGPD1	RNF113A	RPL36	RRM2B
RGPD3	RNF135	RPL36P14	RRN3P3
RGPD4	RNF139	RPL38	RS1
RGPD6	RNF168	RPL5	RSC1A1
RGPD8	RNF170	RPL5P29	RSPH1

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RSPH3	SBDSP1	SDHB	SERPINA6
RSPH4A	SBF2	SDHC	SERPINA7
RSPH9	SC5D	SDHCP2	SERPINB11
RSPO1	SCAPER	SDHCP3	SERPINB5
RSPO4	SCARB1	SDHCP4	SERPINB6
RSRC1	SCARB2	SDHD	SERPINC1
RTEL1	SCARF2	SDHDP1	SERPIND1
RTEL1P1	SCGB1A1	SDHDP2	SERPINE1
RTN2	SCGB3A2	SDHDP3	SERPINF1
RTN4IP1	SCLT1	SDHDP7	SERPINF2
RTN4R	SCN10A	SEC1P	SERPING1
RTTN	SCN11A	SEC23A	SERPINH1
RUBCN	SCN1A	SEC23B	SERPINI1
RUNX1	SCN1B	SEC61A1	SERPINI2
RUNX2	SCN2A	SEC63	SESN2
RUNX3	SCN2B	SEC63P1	SETBP1
RUNX3-AS1	SCN3A	SECISBP2	SETD2
RUVBL1	SCN3B	SELE	SETD5
RXFP2	SCN4A	SELENON	SETX
RXRA	SCN4B	SELL	SEZ6
RXYLT1	SCN5A	SELP	SEZ6L
RYK	SCN7A	SELPLG	SEZ6L2
RYR1	SCN8A	SEM1	SF3B1
RYR2	SCN9A	SEMA3A	SF3B4
SAA1	SCNN1A	SEMA3C	SF3B4P1
SAA2	SCNN1B	SEMA3D	SFPQ
SACS	SCNN1D	SEMA3E	SFRP1
SAG	SCNN1G	SEMA4A	SFTPA1
SAGE1	SCO1	SEMA4C	SFTPA2
SALL1	SCO2	SEMA4G	SFTPB
SALL4	SCP2	SEMA6D	SFTPC
SAMD9	SCRIB	SEMA7A	SFTPD
SAMHD1	SCUBE2	SEMG1	SGCA
SAR1B	SDC3	SEMG2	SGCB
SARDH	SDCCAG8	SEPSECS	SGCD
SARS2	SDHA	SEPT12	SGCE
SART3	SDHAF1	SEPT9	SGCG
SAT1	SDHAF2	SERAC1	SGSH
SATB2	SDHAP1	SERPINA1	SH2B1
SATL1	SDHAP2	SERPINA10	SH2B3
SBDS	SDHAP3	SERPINA3	SH2D1A



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SH3BP2	SLA2	SLC25A15P3	SLC34A3
SH3GL1	SLC10A1	SLC25A15P4	SLC35A1
SH3PXD2B	SLC10A2	SLC25A15P5	SLC35A2
SH3TC2	SLC11A1	SLC25A19	SLC35A3
SHANK1	SLC11A2	SLC25A20	SLC35C1
SHANK2	SLC12A1	SLC25A22	SLC35D1
SHANK3	SLC12A3	SLC25A3	SLC35F3
SHARPIN	SLC12A5	SLC25A38	SLC35G2
SHBG	SLC12A6	SLC25A39	SLC36A1
SHH	SLC13A2	SLC25A4	SLC36A2
SHMT1	SLC13A5	SLC26A1	SLC37A4
SHOC2	SLC14A1	SLC26A10	SLC39A12
SHOX	SLC15A1	SLC26A2	SLC39A13
SHOX2	SLC16A1	SLC26A3	SLC39A4
SHROOM3	SLC16A12	SLC26A4	SLC3A1
SHROOM4	SLC16A2	SLC26A5	SLC40A1
SI	SLC17A3	SLC26A6	SLC41A1
SIAE	SLC17A5	SLC26A9	SLC44A2
SIGLEC12	SLC17A8	SLC27A1	SLC45A2
SIGLEC14	SLC19A2	SLC27A4	SLC46A1
SIGLEC5	SLC19A3	SLC27A5	SLC47A1
SIGLEC7	SLC1A1	SLC28A1	SLC47A2
SIGLEC8	SLC1A3	SLC28A2	SLC4A1
SIGMAR1	SLC1A5	SLC28A3	SLC4A10
SIK1	SLC20A2	SLC29A1	SLC4A11
SIK2	SLC22A1	SLC29A2	SLC4A3
SIK3	SLC22A12	SLC29A3	SLC4A4
SIL1	SLC22A18	SLC2A1	SLC4A7
SIM1	SLC22A2	SLC2A10	SLC52A1
SIM2	SLC22A3	SLC2A2	SLC52A2
SIPA1	SLC22A4	SLC2A4	SLC52A3
SIPA1L1	SLC22A5	SLC2A9	SLC5A1
SIRT1	SLC22A6	SLC30A10	SLC5A11
SIRT3	SLC22A9	SLC30A2	SLC5A2
SIX1	SLC24A1	SLC30A5	SLC5A5
SIX2	SLC24A2	SLC30A8	SLC5A7
SIX3	SLC24A5	SLC31A1	SLC6A1
SIX5	SLC25A1	SLC31A1P1	SLC6A10P
SIX6	SLC25A12	SLC33A1	SLC6A11
SKI	SLC25A13	SLC34A1	SLC6A12
SKIV2L	SLC25A15	SLC34A2	SLC6A13

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SLC6A14	SLX4	SNCA	SP7
SLC6A17	SMAD1	SNCAIP	SP8
SLC6A18	SMAD2	SNCB	SP9
SLC6A19	SMAD3	SNIP1	SPAG1
SLC6A2	SMAD4	SNORA36A	SPAG17
SLC6A20	SMAD5	SNORA70I	SPANXN1
SLC6A3	SMAD6	SNORD86	SPANXN2
SLC6A4	SMAD7	SNRK	SPANXN5
SLC6A5	SMAD9	SNRNP200	SPART
SLC6A6	SMARCA2	SNRPN	SPAST
SLC6A8	SMARCA4	SNTA1	SPATA13
SLC6A9	SMARCAD1	SNTB1	SPATA16
SLC7A10	SMARCAL1	SNTG2	SPATA21
SLC7A11	SMARCB1	SNX1	SPATA31C1
SLC7A14	SMARCE1	SNX10	SPATA31C2
SLC7A2	SMARCE1P5	SNX3	SPATA33
SLC7A5	SMC1A	SOBP	SPATA45
SLC7A5P1	SMC3	SOC53	SPATA5
SLC7A5P2	SMC3P1	SOD1	SPATA7
SLC7A7	SMG1	SOD2	SPECC1
SLC7A9	SMG1P3	SOD3	SPECC1L
SLC8A1	SMG1P4	SOGA3	SPEF2
SLC9A3	SMG1P5	SOHLH1	SPEG
SLC9A3R1	SMG1P6	SON	SPG11
SLC9A6	SMG1P7	SORCS1	SPG21
SLC9A9	SMCHD1	SORL1	SPG7
SLCO1A2	SMIM3	SORT1	SPI1
SLCO1B1	SMN1	SOS1	SPIB
SLCO1B3	SMN2	SOS2	SPINK1
SLCO1C1	SMO	SOST	SPINK5
SLCO2A1	SMOC1	SOX1	SPINT2
SLCO2B1	SMOC2	SOX10	SPP1
SLCO5A1	SMPD1	SOX17	SPR
SLFN5	SMPD3	SOX18	SPRED1
SLIT1	SMPX	SOX2	SPRED2
SLIT3	SMS	SOX3	SPRN
SLITRK1	SMUG1	SOX5	SPRY2
SLITRK5	SNAI2	SOX6	SPRY4
SLITRK6	SNAP25	SOX7	SPSB1
SLMAP	SNAP29	SOX9	SPTA1
SLURP1	SNAPC5	SP110	SPTAN1



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SPTB	ST6GALNAC2	STX1B	SYT14
SPTBN1	ST6GALNAC3	STXBP1	SYT17
SPTBN2	ST6GALNAC4	STXBP2	SYT2
SPTBN5	ST6GALNAC5	SUCLA2	SYTL3
SPTLC1	ST6GALNAC6	SUCLA2P1	SYTL5
SPTLC1P1	ST8SIA1	SUCLG1	SZT2
SPTLC1P2	ST8SIA2	SUCO	TAAR1
SPTLC1P4	ST8SIA3	SUFU	TAAR9
SPTLC1P5	ST8SIA4	SUGCT	TAB2
SPTLC2	ST8SIA5	SULF1	TAC3
SQSTM1	ST8SIA6	SULT1A1	TACO1
SRC	STAR	SULT1A2	TACR3
SRCAP	STARD9	SULT1C2	TACSTD2
SRD5A2	STARP1	SULT2A1	TAF1
SRD5A3	STAT1	SULT2B1	TAF15
SREBF1	STAT3	SULT4A1	TAF1A
SREBF2	STAT4	SUMF1	TAF1C
SRGAP3	STAT5A	SUMO1	TAF1L
SRI	STAT5B	SUMO1P3	TAF2
SRP72	STEAP3	SUMO2P10	TAL1
SRPX	STIL	SUMO4	TAL2
SRPX2	STIM1	SUOX	TALDO1
SRR	STK11	SUPT16H	TAP2
SRY	STK11IP	SURF1	TARDBP
SSH1	STK19	SUZ12	TAS1R1
SSPN	STK35	SUZ12P1	TAS1R3
SSTR5	STK36	SV2B	TAS2R15P
SSX6P	STK39	SVIL-AS1	TAS2R16
SSX7	STK4	SYCE2	TAS2R19
ST14	STN1	SYCP3	TAS2R20
ST3GAL1	STOX1	SYK	TAS2R3
ST3GAL1P1	STRA6	SYN1	TAS2R30
ST3GAL2	STRADA	SYN2	TAS2R31
ST3GAL3	STRC	SYNE1	TAS2R38
ST3GAL4	STRCP1	SYNE2	TAS2R46
ST3GAL5	STRN	SYNGAP1	TAS2R50
ST3GAL6	STS	SYNGR1	TAS2R63P
ST5	STT3A	SYNM	TAT
ST6GAL1	STT3B	SYNPO	TAZ
ST6GAL2	STX11	SYNPR	TBC1D23
ST6GALNAC1	STX16	SYP	TBC1D24



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TBC1D4	TDO2	TGM5	TMEM138
TBC1D9	TDP1	TGM6	TMEM165
TBCE	TDRD7	TH	TMEM173
TBCK	TEAD1	THAP1	TMEM187
TBK1	TEC	THBD	TMEM216
TBL1X	TECPR2	THBS1	TMEM231
TBL1XR1	TECR	THBS2	TMEM231P1
TBL1Y	TECRL	THOC2	TMEM237
TBP	TECRP1	THPO	TMEM43
TBR1	TECTA	THRA	TMEM67
TBX1	TEK	THRB	TMEM70
TBX10	TEKT2	THSD7A	TMEM8A
TBX15	TENM2	TICAM1	TMEM99
TBX19	TENM4	TIMM44	TMIE
TBX2	TERC	TIMM8A	TMLHE
TBX20	TERT	TIMP3	TMPO
TBX21	TET1	TINAG	TMPRSS15
TBX22	TET2	TINF2	TMPRSS3
TBX3	TEX14	TIRAP	TMPRSS5
TBX4	TF	TJP2	TMPRSS6
TBX5	TFAM	TK2	TMTC3
TBX6	TFAP2A	TLL1	TNFRSF10B
TBXA2R	TFAP2B	TLR1	TNFRSF11A
TBXAS1	TFB1M	TLR2	TNFRSF11B
TBXT	TFE3	TLR3	TNFRSF13B
TCAP	TFF1	TLR4	TNFRSF13C
TCF20	TFG	TLR5	TNFRSF1A
TCF21	TFPI	TLR6	TNFRSF1B
TCF3	TFR2	TLR9	TNFRSF9
TCF4	TFRC	TLX1	TNFSF11
TCF7L1	TG	TLX2	TNFSF14
TCF7L2	TGFB1	TLX3	TNFSF15
TCIRG1	TGFB2	TM4SF19	TNFSF4
TCN1	TGFB3	TMC1	TNKS
TCN2	TGFBI	TMC6	TNNC1
TCOF1	TGFBR1	TMC8	TNNI2
TCTE1	TGFBR2	TMCO1	TNNI3
TCTE3	TGFBR3	TMEM114	TNNI3K
TCTN1	TGIF1	TMEM126A	TNNT1
TCTN2	TGM1	TMEM127	TNNT2
TCTN3	TGM2	TMEM135	TNNT3

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TNP1	TRAK1	TRPV5	TUBB1
TNPO3	TRAPPC9	TRPV6	TUBB2A
TNR	TRDN	TRRAP	TUBB2B
TNRC6B	TREH	TSC1	TUBB2BP1
TNS2	TREHP1	TSC2	TUBB3
TNS3	TREM2	TSEN2	TUBB3P1
TNXB	TRERF1	TSEN34	TUBB4A
TOE1	TREX1	TSEN54	TUBB4B
TOP1	TRHR	TSFM	TUBB6
TOP1P1	TRIB2	TSG101	TUBGCP5
TOP2A	TRIB3	TSHB	TUBGCP6
TOPORS	TRIM21	TSHR	TUFM
TOR1A	TRIM24	TSHZ1	TULP1
TP53	TRIM32	TSLP	TUSC3
TP53BP1	TRIM33	TSPAN12	TWIST1
TP53RK	TRIM37	TSPAN17	TWIST2
TP63	TRIM52-AS1	TSPAN7	TWNK
TP73	TRIM74	TSPEAR	TXNIP
TPCN2	TRIO	TSPO	TXNRD2
TPH1	TRIOBP	TSPYL1	TYK2
TPH2	TRIP11	TSSC2	TYMP
TPK1	TRIP12	TSSC4	TYMS
TPM1	TRIP13	TSSK4	TYR
TPM1-AS	TRMU	TST	TYRL
TPM2	TRNT1	TTBK2	TYRO3
TPM3	TROAP	TTC19	TYRO3P
TPMT	TROVE2	TTC21B	TYROBP
TPO	TRPA1	TTC37	TYRP1
TPP1	TRPC3	TTC7A	UACA
TPRN	TRPC4	TTC8	UBA1
TPTE	TRPC6	TTI2	UBAC2
TPTE2	TRPM1	TTLL1	UBAC2-AS1
TPTE2P1	TRPM2	TTN	UBB
TPTE2P6	TRPM3	TTPA	UBBP4
TPTEP1	TRPM4	TTR	UBE2A
TRADD	TRPM6	TUB	UBE2B
TRAF3	TRPM7	TUBA1A	UBE2NL
TRAF3IP2	TRPS1	TUBA1B	UBE3A
TRAF3IP2-AS1	TRPV1	TUBA1C	UBE3AP2
TRAF6	TRPV3	TUBA8	UBE3B
TRAF6P1	TRPV4	TUBAP2	UBE3C



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UBIAD1	UNC119	UTP14A	WAC
UBQLN2	UNC13D	UTP4	WAS
UBR1	UNC5C	UTRN	WASF3
UBR3	UNC5CL	UVSSA	WASHC4
UBR7	UNC80	VAMP7	WASHC5
UCN	UNC93A	VANGL1	WDFY3
UCP1	UNC93B1	VANGL2	WDPCP
UCP2	UNC93B2	VAPB	WDR11
UCP3	UNC93B3	VAX1	WDR13
UFD1	UNC93B5	VCAM1	WDR19
UGCG	UNC93B6	VCAN	WDR35
UGGT1	UNC93B7	VCL	WDR36
UGGT2	UNC93B8	VCP	WDR4
UGT1A1	UNG	VCX	WDR45
UGT1A10	UNKL	VCX3A	WDR45B
UGT1A3	UPB1	VDR	WDR45BP1
UGT1A4	UPF3B	VEGFA	WDR62
UGT1A5	UPK3A	VEGFC	WDR72
UGT1A6	UQCRB	VHL	WDR81
UGT1A7	UQCRB-AS1	VIM	WFS1
UGT1A8	UQCRFS1	VIPAS39	WHRN
UGT1A9	UQCRFS1P1	VKORC1	WIPF1
UGT2A1	UQCRQ	VLDLR	WISP3
UGT2A3	UROC1	VMA21	WNK1
UGT2B10	UROD	VNN1	WNK4
UGT2B15	UROS	VPS13A	WNT1
UGT2B17	USB1	VPS13B	WNT10A
UGT2B24P	USF1	VPS13C	WNT10B
UGT2B25P	USF1P1	VPS33B	WNT3
UGT2B27P	USH1C	VPS35	WNT4
UGT2B4	USH1G	VPS35P1	WNT5A
UGT2B7	USH2A	VPS37A	WNT7A
UGT8	USP1	VPS53	WRAP53
UCHL1	USP15	VPS54	WRN
UIMC1	USP26	VRK1	WT1
ULK4	USP3	VRTN	WWC1
ULK4P1	USP46	VSIG4	WWOX
ULK4P2	USP9X	VSX1	WWTR1
ULK4P3	USP9Y	VSX2	XBP1
UMOD	UST	VWF	XDH
UMPS	UTF1	VWFP1	XG



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XIAP	YY1	ZFP36	ZNF41
XK	YY1AP1	ZFP36L1	ZNF419
XKR6	ZAN	ZFP36L2	ZNF420
XPA	ZAP70	ZFP57	ZNF423
XPC	ZBTB16	ZFP69	ZNF433
XPNPEP2	ZBTB18	ZFP90	ZNF469
XPNPEP3	ZBTB20	ZFPM2	ZNF480
XRCC1	ZBTB24	ZFYVE26	ZNF513
XRCC2	ZBTB40	ZFYVE27	ZNF526
XRCC3	ZBTB41	ZHX3	ZNF592
XRCC4	ZC3H14	ZIC2	ZNF644
XRCC5	ZC4H2	ZIC3	ZNF674
XRCC6	ZCCHC12	ZIC4	ZNF711
XRCC6P2	ZCCHC13	ZKSCAN5	ZNF750
XYLT1	ZCCHC8	ZMPSTE24	ZNF75A
XYLT2	ZDHHC15	ZMYM3	ZNF75BP
YARS	ZDHHC17	ZNF175	ZNF75D
YARS2	ZDHHC2	ZNF184	ZNF773
YBX2	ZDHHC9	ZNF213	ZNF80
YBX2P1	ZEB1	ZNF292	ZNF81
YBX2P2	ZEB2	ZNF335	ZPBP
YWHAE	ZFAT	ZNF365	ZPBP2
YWHAEP5	ZFHX3	ZNF408	ZSCAN25