

Table 1: GeneScreen® Expanded - List of genes screened

AAAS	ATP7B	COL6A3	ESPN	GNPTAB	KCNV2	NBN	PEX6	SELENON	TGM1
ABCA12	ATP8B1	COL7A1	ESRRB	GNPTG	KDM5C	NDP	PEX7	SEMA4A	TH
ABCA3	ATR	COL9A1	ETFA	GNRHR	KIAA2022	NDRG1	PFKM	SEPSECS	THRA
ABCA4	ATRX	COL9A2	ETFB	GNS	KIF7	NDUFA1	PGK1	SERPINA1	THRB
ABCB11	AUH	COQ2	ETFDH	GORAB	L1CAM	NDUFA7	PGM1	SETX	TIMM8A
ABCB4	B4GALT1	COQ8A	ETHE1	GP1BA	LAMA2	NDUFAF2	PHF8	SFTPB	TK2
ABCB7	B9D2	COQ9	EVC	GP1BB	LAMA3	NDUFAF4	PHGDH	SFTPC	TLR3
ABCC2	BBS1	COX10	EVC2	GP9	LAMB2	NDUFAF5	PHKG2	SGCA	TMC1
ABCC6	BBS10	COX15	EXOSC3	GPC3	LAMB3	NDUFS3	PHYH	SGCB	TMEM216
ABCC8	BBS12	COX6B1	EYS	GPR143	LAMC2	NDUFS4	PKHD1	SGCD	TMEM67
ABCD1	BBS2	CPS1	F11	GPR179	LAMP2	NDUFS5	PKLR	SGCG	TMIE
ABCD4	BCHE	CPT1A	F2	GRHRP	LARGE1	NDUFS6	PLA2G6	SGSH	TMPRSS3
ACAD8	BCKDHA	CPT2	F5	GRIA3	LBR	NDUFS7	PLCE1	SH2D1A	TNFRSF11B
ACAD9	BCKDHB	CRB1	F8	GRIK2	LCA5	NDUFS8	PLEC	SH3TC2	TNNT1
ACADL	BCOR	CRLF1	F9	GRM6	LDHA	NDUFV1	PLEKHG5	SHROOM4	TPO
ACADM	BCS1L	CRTAP	FAH	GRXCR1	LDLR	NEB	PLG	SIL1	TPP1
ACADS	BEST1	CRX	FAM126A	GSS	LDLRAP1	NEFL	PLOD1	SIX6	TPRN
ACADSB	BLM	CSTB	FAM161A	GTF2H5	LHCGR	NEU1	PLP1	SLC12A1	TRAPPC9
ACADVL	BLOC1S6	CTH	FAM20C	GUCY2D	LHFPL5	NEUROG3	PMM2	SLC12A3	TRDN
ACAT1	BRCA2	CTNS	FANCA	GUSB	LHX3	NHEJ1	PMP22	SLC12A6	TREX1
ACE	BRIP1	CTSC	FANCB	HADH	LIFR	NHLRC1	PNPO	SLC16A2	TRIM32
ACOX1	BRWD3	CTSD	FANCC	HADHA	LIG4	NHP2	POLG	SLC17A5	TRIM37
ACSF3	BSCL2	CTSK	FANCD2	HADHB	LIPA	NHS	POLR1C	SLC19A2	TRIOBP
ACSL4	BSND	CUL4B	FANCE	HAL	LIPH	NKX2-1	POMGNT1	SLC22A5	TRMU
ACTN4	BTD	CYBA	FANCG	HAMP	LMBRD1	NKX2-5	POMT1	SLC24A1	TSEN54
ADA	BTK	CYBB	FANCI	HAX1	LMNA	NLGN3	POMT2	SLC25A13	TSMF
ADAMTS13	C3	CYP11A1	FANCL	HBA1	LOXHD1	NLGN4X	POR	SLC25A15	TSHB
ADAMTS2	CA2	CYP11B1	FANCM	HBA2	LPL	NLRP7	POU1F1	SLC25A20	TSHR
ADAMTSL2	CANT1	CYP11B2	FAS	HBB	LRAT	NMNAT1	POU3F4	SLC25A22	TSPAN7
ADGRG1	CAPN3	CYP17A1	FASLG	HCCS	LRP2	NOP10	PPT1	SLC26A2	TSPYL1
ADGRV1	CASK	CYP19A1	FASTKD2	HESX1	LRP5	NPC1	PQBP1	SLC26A3	TTC37
ADK	CASP10	CYP1B1	FBLN5	HEXA	LRPPRC	NPC2	PRCD	SLC26A4	TTN

AFF2	CASQ2	-----	FERMT3	HEXB	LRTOMT	NPHP1	PRF1	SLC26A5	TTPA
AGA	CBS	CYP27A1	FGA	HFE	LYST	NPHP3	PRKRA	SLC35A1	TUBA1A
AGL	CC2D2A	CYP27B1	FGB	HFE2	MAGT1	NPHP4	PRODH	SLC35C1	TUFM
AGPS	CCDC103	CYP4V2	FGD1	HGD	MAK	NPHS1	PROM1	SLC35D1	TULP1
AGT	CCDC39	CYP7B1	FGD4	HGF	MAN2B1	NPHS2	PROP1	SLC37A4	TUSC3
AGTR1	CD19	D2HGDH	FH	HGSNAT	MARVELD 2	NR0B1	PRPS1	SLC39A4	TWNK
AGTR2	CD247	DBT	FHL1	HIBCH	MAT1A	NR2E3	PRSS12	SLC3A1	TYK2
AGXT	CD2AP	DCLRE1 C	FIG4	HLCS	MATN3	NR5A1	PRX	SLC45A2	TYMP
AHCY	CD320	DCX	FKRP	HMGCL	MBTPS2	NSD1	PSAP	SLC46A1	TYR
AHI1	CD3D	DDB2	FKTN	HMOX1	MCCC1	NSDHL	PSAT1	SLC4A11	TYRP1
AIPL1	CD3E	DDC	FLNA	HOGA1	MCCC2	NSUN2	PTEN	SLC5A5	UBA1
AIRE	CD3G	DFNB59	FLVCR1	HP	MCEE	NTRK1	PTH1R	SLC6A19	UBE2A
ALAS2	CD40LG	DGUOK	FMR1	HPD	MCOLN1	NUP62	PTS	SLC6A8	UBE3A
ALDH3A2	CDH23	DHCR24	FOLR1	HPRT1	MCPH1	NXF5	PUS1	SLC7A7	UBR1
ALDH4A1	CDH3	DHCR7	FOXG1	HPS1	MECP2	NYX	PYGM	SLC7A9	UGT1A1
ALDH5A1	CDHR1	DHDDS	FOXN1	HPS3	MED12	OAT	QDPR	SLC9A6	UNC13D
ALDH7A1	CDK5RAP 2	DKC1	FOXP3	HSD11B2	MED17	OCA2	RAB23	SLX4	UNC93B1
ALDOA	CDKL5	DLD	FRAS1	HSD17B1 0	MED25	OCRL	RAB27A	SMARCAL 1	UPF3B
ALDOB	CENPJ	DLG3	FREM2	HSD17B3	MEFV	OFD1	RAB39B	SMN1	UQCRB
ALG1	CEP152	DLL3	FTCD	HSD17B4	MERTK	OPA3	RAB3GAP 1	SMN2	UQCRQ
ALG12	CEP290	DMD	FTSJ1	HSD3B2	MESP2	OPHN1	RAB3GAP 2	SMPD1	UROS
ALG2	CERKL	DMP1	FUCA1	HSPD1	MFRP	ORAI1	RAD51C	SMS	USH1C
ALG3	CFH	DNAH5	FXN	HSPG2	MFSB8	OSTM1	RAG1	SNAI2	USH1G
ALG6	CFP	DNAI1	G6PC	HTRA1	MGAT2	OTC	RAG2	SNAP29	USH2A
ALG8	CFTR	DNAI2	G6PC3	HUWE1	MID1	OTOA	RAPSN	SOX3	USP9X
ALG9	CHM	DNAJC19	G6PD	HYAL1	MKKS	OTOF	RARS2	SP110	VDR
ALMS1	CHRNA1	DNAL1	GAA	HYLS1	MKS1	OXCT1	RAX	SPG11	VIPAS39
ALPL	CHRND	DNMT3B	GALC	ICOS	MLC1	P3H1	RDH12	SPG20	VLDLR
ALS2	CHRNE	DOCK8	GALE	IDH3B	MLYCD	PAH	RDX	SPG7	VPS13A
AMACR	CHRNA1	DOK7	GALK1	IDS	MMAA	PAK3	RELN	SRD5A2	VPS13B
AMPD1	CHST6	DOLK	GALNS	IDUA	MMAB	PALB2	REN	SRD5A3	VPS33B
AMT	CHTA	DPAGT1	GALNT3	IFNGR1	MMACHC	PANK2	RFT1	SRPX2	VRK1
ANO5	CLCN1	DPM1	GALT	IFNGR2	MMADHC	PAX3	RGR	ST3GAL3	VSX2

ANTXR2	CLCN5	DPYD	GAMT	IFT80	MOCS1	PAX6	RHO	ST3GAL5	VWF
AP1S1	CLCN7	DSP	GAN	IGBP1	MOCS2	PAX8	RLBP1	STAR	WAS
AP1S2	CLDN1	DUOX2	GBA	IGF1	MOGS	PC	RMRP	STAT1	WDR62
AP3B1	CLDN14	DUOXA2	GBE1	IGHMBP2	MPDU1	PCBD1	RNASEH2A	STIL	WFS1
APTX	CLDN19	DYNC2H1	GCDH	IKBKAP	MPI	PCCA	RNASEH2B	STIM1	WHRN
AQP2	CLN3	DYSF	GCH1	IKBKG	MPL	PCCB	RNASEH2C	STRA6	WISP3
AR	CLN5	EDA	GCSH	IL12B	MPV17	PCDH15	RP2	STRC	WNT10A
ARG1	CLN6	EDAR	GDAP1	IL12RB1	MPZ	PCDH19	RPE65	STX11	WNT3
ARHGEF6	CLN8	EDN3	GDF5	IL1RAPL1	MRE11	PDE6A	RPGR	STXBP2	WNT7A
ARHGEF9	CLRN1	EDNRB	GDI1	IL1RN	MRPS16	PDE6B	RPGRIP1L	SUCLA2	WRN
ARL13B	CNGA1	EFEMP2	GFM1	IL2RA	MRPS22	PDE6C	RPL10	SUCLG1	XIAP
ARL6	CNGA3	EFNB1	GHRHR	IL2RG	MTHFR	PDE6G	RPS6KA3	SUMF1	XPA
ARSA	CNGB1	EGR2	GJA1	IMPDH1	MTM1	PDHA1	RRM2B	SUOX	XPC
ARSB	CNGB3	EIF2AK3	GJB1	IMPG2	MTMR2	PDHB	RS1	SURF1	ZDHHC9
ARSE	COG1	EIF2B5	GJB2	INPP5E	MTR	PDHX	RYR1	SYN1	ZEB2
ARSF	COG7	ELK1	GJB3	INSR	MTRR	PDP1	SACS	SYN1	ZFYVE26
ARX	COG8	EMD	GJB6	INVS	MTTP	PDSS1	SAG	TAF1	ZIC3
ASL	COL11A1	ENO3	GJC2	IQCB1	MUT	PDSS2	SAMD9	TAT	ZMPSTE24
ASNS	COL17A1	ENPP1	GK	IQSEC2	MVK	PDX1	SAMHD1	TAZ	ZNF41
ASPA	COL18A1	EPM2A	GLA	ISCU	MYD88	PDZD7	SBDS	TBCE	ZNF469
ASPM	COL1A1	ERBB3	GLB1	ITGA6	MYO15A	PEPD	SBF2	TCAP	ZNF674
ASS1	COL1A2	ERCC2	GLDC	ITGB4	MYO3A	PEX1	SC5D	TCF4	ZNF711
ATIC	COL2A1	ERCC3	GLE1	IVD	MYO5A	PEX10	SCN2A	TCIRG1	ZNF81
ATM	COL4A3	ERCC4	GLIS3	IYD	MYO6	PEX12	SCNN1A	TCN2	
ATP6AP2	COL4A4	ERCC5	GM2A	JAK3	MYO7A	PEX13	SCNN1B	TECTA	
ATP6V0A2	COL4A5	ERCC6	GNAS	KCNJ1	NAGA	PEX2	SCNN1G	TERT	
ATP6V1B1	COL6A1	ERCC8	GNE	KCNJ11	NAGLU	PEX26	SCO1	TFR2	
ATP7A	COL6A2	ESCO2	GNMT	KCNJ13	NAGS	PEX5	SCO2	TG	

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