Supplementary Table 1. A full list of cancer genes.

Gene Symbol	Gene full name	Entrez Gene ID	Chr	Chr Band	Somatic	Germline	Tumour Types (Somatic)	Tumour Types (Germline)	Cancer Synd	Tissue Type	Molecular Genetics	Mut Types	Translocation Partner	Other Germline Mut	Other Synd	Syn
ABI1	Abl-interactor 1	10006	10	10p11.2	yes		AML			L	Dom	T	MLL			ABI1; E3B1; ABI-1; SSH3BP1; 10006
ABL1	V-abl Abelson murine leukemia viral oncogene homolog 1	25	9	9q34.1	yes		CML; ALL; T-ALL			L	Dom	T; Mis	BCR; ETV6; NUP214			ABL1; p150; ABL; c-ABL; JTK7; bcr/abl; v-abl; P00519; 25; ENSG00000097007
ABL2	C-abl oncogene 2; non-receptor tyrosine kinase	27	1	1q24-q25	yes		AML			L	Dom	T	ETV6			ABL2; ARG; RP11-177A2_3; ABLL; ENSG00000143322; P42684; 27
ACSL3	Acyl-coa synthetase long-chain family member 3	2181	2	2q36	yes		Prostate			E	Dom	T	ETV1			2181; ASPM; PRO2194; ACS3; FACL3; O95573; ENSG00000123983; ACSL3
AF15Q14	AF15q14 protein	57082	15	15q14	yes		AML			L	Dom	T	MLL			CASC5; AF15Q14; Q8NG31; D40; ENSG00000137812; 57082
AF1Q	ALL1-fused gene from chromosome 1q	10962	1	1q21	yes		ALL			L	Dom	T	MLL			MLLT11; Q13015; AF1Q; ENSG00000213190; 10962
AF3p21	SH3 protein interacting with Nck; 90 kda (ALL1 fused gene from 3p21)	51517	3	3p21	yes		ALL			L	Dom	T	MLL			Q9NZQ3; AF3P21; WISH; ORF1; WASLBP; SPIN90; ENSG00000213672; NCKIPSD; 51517
AF5q31	ALL1 fused gene from 5q31	27125	5	5q31	yes		ALL			L	Dom	T	MLL			27125; Q9UHB7; MCEF; AF5Q31; ENSG00000072364; AFF4

AKAP9	A kinase (PRKA) anchor protein (yotiao) 9	10142	7	7q21-q22	yes		Papillary thyroid			E	Dom	T	BRAF			KIAA0803; AKAP350; CG-NAP; MU-RMS-40_16A; PRKA9; YOTIAO; HYPERION; AKAP450; Q99996; ENSG00000127914; 10142; AKAP9
AKT1	V-akt murine thymoma viral oncogene homolog 1	207	14	14q32.32	yes		Breast; colorectal; ovarian; NSCLC			E	Dom	Mis				P31749; AKT1_NEW; 207; ENSG00000142208; AKT; MGC99656; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA
AKT2	V-akt murine thymoma viral oncogene homolog 2	208	19	19q13.1-q13.2	yes		Ovarian; pancreatic			E	Dom	A				AKT2; PRKBB; P31751; RAC-BETA; ENSG00000105221; 208; PKBBETA
ALDH2	Aldehyde dehydrogenase 2 family (mitochondrial)	217	12	12q24.2	yes		Leiomyoma			M	Dom	T	HMGA2			ALDH2; ALDHI; ALDM; MGC1806; P05091; ALDH-E2; ENSG00000111275; 217
ALK	Anaplastic lymphoma kinase (Ki-1)	238	2	2p23	yes	yes	ALCL; NSCLC; neuroblastoma	Neuroblastoma	Familial neuroblastoma	L; E; M	Dom	T; Mis; A	NPM1; TPM3; TFG; TPM4; ATIC; CLTC; MSN; ALO17; CARS; EML4; KIF5B; C2orf22			ENSG00000171094; CD246; TFG/ALK; Q9UM73; ALK; 238
ALO17	KIAA1618 protein	57674	17	17q25.3	yes		ALCL			L	Dom	T	ALK			57674; ENSG00000173821; C17orf27; KIAA1554; Q63HN8; RNF213

AMER1	APC membrane recruitment protein 1	139285	X	Xq11.2	yes		Wilms tumour			O	Rec	F; D; N; Mis				AMER1; RP11-403E24_2; WTX; FLJ39827; ENSG00000184675; FAM123B; 139285
APC	Adenomatous polyposis of the colon gene	324	5	5q21	yes	yes	Colorectal; pancreatic; desmoid; hepatoblastoma; glioma; other CNS	Colorectal; pancreatic; desmoid; hepatoblastoma; glioma; other CNS	Adenomatous polyposis coli; Turcot syndrome	E; M; O	Rec	D; Mis; N; F; S				324; DP2; DP2_5; DP3; GS; FPC; FAP; ENSG00000134982; P25054; APC
ARHGEF12	RHO guanine nucleotide exchange factor (GEF) 12 (LARG)	23365	11	11q23.3	yes		AML			L	Dom	T	MLL			23365; Q9NZN5; PRO2792; DKFZp686O2372; LARG; KIAA0382; ENSG00000196914; ARHGEF12
ARHH	RAS homolog gene family; member H (TTF)	399	4	4p13	yes		NHL			L	Dom	T	BCL6			RHOH; TTF; RhoH; ARHH; ENSG00000168421; 399
ARID1A	AT rich interactive domain 1A (SWI-like)	8289	1	1p35.3	yes		Clear cell ovarian carcinoma; RCC			E	Rec	Mis; N; F; S; D				8289; BAF250; BAF250a; P270; RP1-50O24_1; B120; BM029; C1orf4; SMARCF1; ENSG00000117713; ARID1A
ARID2	AT rich interactive domain 2	196528	12	12q12	yes		Hepatocellular carcinoma			E	Rec	N; S; F				196528; ENSG00000189079; BAF200; DKFZp686G052; DKFZp779P0222; FLJ30619; KIAA1557; p200; Q68CP9; ARID2

ARNT	Aryl hydrocarbon receptor nuclear translocator	405	1	1q21	yes		AML			L	Dom	T	ETV6			ARNT; HIF1BETA; TANGO; HIF1B; HIF-1beta; P27540; ENSG00000143437; 405
ASPSCR1	Alveolar soft part sarcoma chromosome region; candidate 1	79058	17	17q25	yes		Alveolar soft part sarcoma			M	Dom	T	TFE3			79058; Q9BZE9; ENSG00000169696; ASPSCR1
ASXL1	Additional sex combs like 1	171023	20	20q11.1	yes		MDS; CMML			L	Rec	F; N; Mis				171023; KIAA0978; MGC117280; MGC71111; Q8IXJ9; ENSG00000171456; ASXL1
ATF1	Activating transcription factor 1	466	12	12q13	yes		Malignant melanoma of soft parts; angiomatoid fibrous histiocytoma			E; M	Dom	T	EWSR1; FUS			466; TREB36; P18846; ENSG00000123268; ATF1
ATIC	5-Aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	471	2	2q35	yes		ALCL			L	Dom	T	ALK			P31939; IMPCHASE; PURH; AICARFT; ENSG00000138363; 471; ATIC
ATM	Ataxia telangiectasia mutated	472	11	11q22.3	yes	yes	T-PLL	Leukaemia; lymphoma; medulloblastoma; glioma	Ataxia-telangiectasia	L; O	Rec	D; Mis; N; F; S				472; TELO1; ATA; ATC; ATDC; MGC74674; Q13315; AT1; DKFZp781A0353; ATE; ATD; TEL1; ENSG00000149311; ATM

ATP1A1	ATPase; Na^+/K^+ transporting; alpha 1 polypeptide	476	1	p21	yes		Adrenal aldosterone producing adenoma			E	Dom	Mis; O				P05023; ATP1A1; 476; ENSG00000163399; MGC3285; MGC51750
ATP2B3	ATPase; Ca^{++} transporting; plasma membrane 3	492	X	q28	yes		Adrenal aldosterone producing adenoma			E	Dom	O				ATP2B3; PMCA3; ENSG00000067842; 492
ATRX	Alpha thalassemia/mental retardation syndrome X-linked	546	X	Xq21.1	yes		Pancreatic neuroendocrine tumours; paediatric GBM			E	Rec	Mis; F; N		yes	ATR-X (alpha thalassemia/mental retardation) syndrome	P46100; ATRX_ENST00000373344; 546; ATR2; MGC2094; MRXHF1; RAD54; RAD54L; SFM1; SHS; XH2; XNP; ZNF-HX
AXIN1	Axin 1	8312	16	16p13.3	yes	yes	Colorectal; endometrial; prostate and hepatocellular carcinomas; hepatoblastoma; sporadic medulloblastoma			E; O	Rec	D; Mis; N; F; S				8312; LA16c-314G4_3; MGC52315; AXIN; ENSG00000103126; O15169; AXIN1
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	8314	3	3p21.31-p21.2	yes		Uveal melanoma; breast; NSCLC; RCC	Mesothelioma; uveal melanoma		E	Rec	N; Mis; F; S; O				8314; DKFZp686N04275; FLJ37180; HUCEP-13; hucep-6; KIAA0272; ENSG00000163930; BAP1; FLJ35406; Q92560

BCL10	B-cell CLL/lymphoma 10	8915	1	1p22	yes		MALT			L	Dom	T	IGH@			BCL10; CIPER; CLAP; mE10; CARMEN; c-E10; ENSG00000142867; 8915
BCL11A	B-cell CLL/lymphoma 11A	53335	2	2p13	yes		B-CLL			L	Dom	T	IGH@			KIAA1809; BCL11A-L; FLJ10173; EVI9; Q9H165; BCL11A-XL; BCL11A-S; CTIP1; FLJ34997; ENSG00000119866; 53335; BCL11A
BCL11B	B-cell CLL/lymphoma 11B (CTIP2)	64919	14	14q32.1	yes		T-ALL			L	Dom	T	TLX3			BCL11B; RIT1; CTIP-2; Q9C0K0; hRIT1-alpha; CTIP2; 64919; ENSG00000127152
BCL2	B-cell CLL/lymphoma 2	596	18	18q21.3	yes		NHL; CLL			L	Dom	T	IGH@			BCL2; Bcl-2; ENSG00000171791; 596
BCL3	B-cell CLL/lymphoma 3	602	19	19q13	yes		CLL			L	Dom	T	IGH@			BCL3; P20749; BCL4; D19S37; ENSG00000069399; 602
BCL5	B-cell CLL/lymphoma 5	603	17	17q22	yes		CLL			L	Dom	T	MYC			
BCL6	B-cell CLL/lymphoma 6	604	3	3q27	yes		NHL; CLL			L	Dom	T; Mis	IG loci; ZNFN1A1; LCP1; PIM1; TFRC; CIITA; NACA; HSPCB; HSPCA; HIST1H4I; IL21R; POU2AF1; ARHH; EIF4A2; SFRS3			BCL6A; BCL5; ZNF51; LAZ3; P41182; ZBTB27; ENSG00000113916; 604; BCL6
BCL7A	B-cell CLL/lymphoma 7A	605	12	12q24.1	yes		BNHL			L	Dom	T	MYC			BCL7A; BCL7; ENSG00000110987; 605

BCL9	B-cell CLL/lymphoma 9	607	1	1q21	yes		B-ALL			L	Dom	T	IGH@; IGL@			607; LGS; MGC131591; ENSG00000116128; BCL9
BCOR	BCL6 corepressor	54880	X	Xp11.4	yes		Retinoblastoma; AML; APL (translocation)				Rec	F; N; S; T	RARA	yes	oculo-facio-cardio-dental genetic	ANOP2; MGC71031; FLJ20285; MGC131961; KIAA1575; MCOPS2; MAA2; ENSG00000183337; BCOR; 54880; FLJ38041
BCR	Breakpoint cluster region	613	22	22q11.21	yes		CML; ALL; AML			L	Dom	T	ABL1; FGFR1; JAK2			P11274; FLJ16453; PHL; ALL; D22S662; CML; D22S11; BCR1; BCR; ENSG00000186716; 613
BHD	Folliculin; Birt-Hogg-Dube syndrome	201163	17	17p11.2		yes		Renal; fibrofolliculomas; trichodiscomas	Birt-Hogg-Dube syndrome	E; M	Rec?	Mis. N; F				201163; BHD; FLCL; MGC17998; MGC23445; ENSG00000154803; FLCN
BIRC3	Baculoviral IAP repeat-containing 3	330	11	11q22	yes		CLL; MALT; MCL; MM			L	Dom	D; F; N; T; Mis	MALT1			BIRC3; AIP1; HAIP1; hiap-1; RNF49; MALT2; cIAP2; API2; Q13489; HIAP1; ENSG00000023445; 330; CIAP2; MIHC
BLM	Bloom syndrome	641	15	15q26.1		yes		Leukaemia; lymphoma; skin squamous cell; other tumour types	Bloom syndrome	L; E	Rec	Mis; N; F				RECQL3; MGC131620; BS; MGC126616; RECQL2; RECQ2; MGC131618; ENSG00000197299; BLM; 641
BMPR1A	Bone morphogenetic protein receptor; type IA	657	10	10q22.3		yes		gastrointestinal polyps	Juvenile polyposis	E	Rec	Mis; N; F				657; ACVRLK3; CD292; ALK3; P36894; ENSG00000107779; BMPR1A

BRAF	V-raf murine sarcoma viral oncogene homolog B1	673	7	7q34	yes		Melanoma; colorectal; papillary thyroid; borderline ovarian; NSCLC; cholangiocarcinoma; pilocytic astrocytoma			E	Dom	Mis; T; O	AKAP9; KIAA1549	yes	Cardio-facio-cutaneous syndrome	P15056; MGC126806; BRAF1; B-raf 1; RAFB1; MGC138284; ENSG00000157764; 673; BRAF; B-raf1
BRCA1	Familial breast/ovarian cancer gene 1	672	17	17q21	yes	yes	Ovarian	Breast; ovarian	Hereditary breast/ovarian cancer	E	Rec	D; Mis; N; F; S				IRIS; BRCAI; PSCP; RNF53; BRCC1; ENSG00000012048; 672; BRCA1
BRCA2	Familial breast/ovarian cancer gene 2	675	13	13q12	yes	yes	Breast; ovarian; pancreatic	Breast; ovarian; pancreatic; leukaemia (FANCB; FANCD1)	Hereditary breast/ovarian cancer	L; E	Rec	D; Mis; N; F; S				BRCA2; FAD; RP11-298P3_4; FANCB; BRCC2; FANCD1; FANCD; FAD1; FACD; ENSG00000139618; 675
BRD3	Bromodomain containing 3	8019	9	9q34	yes		Lethal midline carcinoma of young people			E	Dom	T	C15orf55			8019; KIAA0043; RING3L; ORFX; Q15059; BRD3; ENSG00000169925
BRD4	Bromodomain containing 4	23476	19	19p13.1	yes		Lethal midline carcinoma of young people			E	Dom	T	C15orf55			23476; MCAP; O60885; CAP; HUNKI; ENSG00000141867; BRD4
BRIP1	BRCA1 interacting protein C-terminal helicase 1	83990	17	17q22		yes		AML; leukaemia; breast	Fanconi anaemia J; breast cancer susceptibility	L; E	Rec	F; N; Mis				83990; MGC126521; OF; MGC126523; Q9BX63; FLJ90232; FANCJ; BACH1; ENSG00000136492; BRIP1

BTG1	B-cell translocation gene 1; anti-proliferative	694	12	12q22	yes		BCLL			L	Dom	T	MYC			BTG1; P62324; ENSG00000133639; 694
BUB1B	BUB1 budding uninhibited by benzimidazoles 1 homolog beta (yeast)	701	15	15q15		yes		Rhabdomyosarcoma	Mosaic variegated aneuploidy	M	Rec	Mis; N; F; S				BUB1B; Bub1A; hBUBR1; O60566; BUB1beta; SSK1; ENSG00000156970; 701; BUBR1; MAD3L
C12orf9	Chromosome 12 open reading frame 9	93669	12	12q14.3	yes		Lipoma			M	Dom	T	LPP			
C15orf21	Chromosome 15 open reading frame 21	283651	15	15q21.1	yes		Prostate			E	Dom	T	ETV1			
C15orf55	Chromosome 15 open reading frame 55	256646	15	15q14	yes		Lethal midline carcinoma			E	Dom	T	BRD3; BRD4			256646; NUT; ENSG00000184507; NUT
C16orf75	Chromosome 16 open reading frame 75	116028	16	16p13.13	yes		PMBL; Hodgkin lymphoma			L	Dom	T	CIITA			116028; MGC24665; ENSG00000175643; C16orf75; C16orf75
C2orf44	Chromosome 2 open reading frame 44	80304	2	2p23.3	yes		NSCLC			E	Dom	T	ALK			FLJ21945; PP384; ENSG00000163026; C2orf44; 80304

CACNA1D	Calcium channel; voltage-dependent; L type; alpha 1D subunit	776	3	p14.3	yes		Adrenal aldosterone producing adenoma			E	Dom	Mis		yes	Syndrome featuring primary aldosteronism; seizures and neuromuscular disease.	CCHL1A2; CACNA1D; 776; ENSG00000157388; CACH3; CACN4; CACNL1A2; Cav1_3
CALR	Calreticulin	811	19	p13.3-p13.2	yes		MPN; MDS			L	Dom	F; Mis				811; ENSG00000179218; cC1qR; FLJ26680; RO; SSA; P27797; CALR
CAMTA1	Calmodulin binding transcription activator 1	23261	1	1p36.31-p36.23	yes		Epithelioid haemangioendothelioma			M	Dom	T	WWTR1			23261; ENSG00000171735; KIAA0833; Q9Y6Y1; CAMTA1
CANT1	Calcium activated nucleotidase 1	124583	17	17q25	yes		Prostate			E	Dom	T	ETV4			124583; SCAN-1; SHAPY; Q8WVQ1; ENSG00000171302; CANT1
CARD11	Caspase recruitment domain family; member 11	84433	7	7p22	yes		DLBCL			L	Dom	Mis				CARD11; BIMP3; Q9BXL7; MGC133069; CARMA1; ENSG00000198286; 84433
CARS	Cysteinyl-trna synthetase	833	11	11p15.5	yes		ALCL			L	Dom	T	ALK			CARS; P49589; ENSG00000110619; 833
CASP8	Caspase 8; apoptosis-related cysteine peptidase	841	2	q33-q34	yes		Hepatocellular; oral squamous cell; breast			E	Rec	N; S; F				ALPS2B; FLICE; MCH5; MACH; CAP4; MGC78473; ENSG00000064012; 841; CASP8

CBFA2T1	Core-binding factor; runt domain; a subunit 2;translocated to; 1 (ETO)	862	8	8q22	yes		AML			L	Dom	T	MLL; RUNX1			RUNX1T1; ENSG00000079102; 862
CBFA2T3	Core-binding factor; runt domain; a subunit 2; translocated to; 3 (MTG-16)	863	16	16q24	yes		AML			L	Dom	T	RUNX1			CBFA2T3; MTG16; ETO2; MTGR2; ZMYND4; ENSG00000129993; 863
CBFB	Core-binding factor; beta subunit	865	16	16q22	yes		AML			L	Dom	T	MYH11			865; PEBP2B; Q13951; ENSG00000067955; CBFB
CBL	Cas-Br-M (murine) ecotropic retroviral transforming	867	11	11q23.3	yes		AML; JMML; MDS			L	Dom; Rec	T; Mis S; O	MLL			CBL; RNF55; CBL2; C-CBL; ENSG00000110395; 867
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	868	3	3q13.11	yes		AML			L	Rec	Mis S				Nbla00127; DKFZp686J10223; DKFZp779A0729; DKFZp779F1443; FLJ36865; FLJ41152; RNF56; ENSG00000114423; 868; CBLB
CBLC	Cas-Br-M (murine) ecotropic retroviral transforming sequence c	23624	19	19q13.2	yes		AML			L	Rec	M				23624; CBL-3; CBL-SL; Q9ULV8; ENSG00000142273; CBLC; RNF57
CCDC6	Coiled-coil domain containing 6	8030	10	10q21	yes		NSCLC			E	Dom	T	RET			8030; D10S170; PTC; TST1; H4; TPC; Q16204; ENSG00000108091; CCDC6

CCNB1IP1	Cyclin B1 interacting protein 1; E3 ubiquitin protein ligase	57820	14	14q11.2	yes		Leiomyoma			M	Dom	T	HMGA2			57820; C14orf18; HEI10; Q9NPC3; ENSG00000100814; CCNB1IP1
CCND1	Cyclin D_1	595	11	11q13	yes		CLL; B-ALL; breast			L; E	Dom	T	IGH@; FSTL3			D11S287E; BCL1; U21B31; PRAD1; ENSG00000110092; 595; CCND1
CCND2	Cyclin D_2	894	12	12p13	yes		NHL; CLL			L	Dom	T	IGL@			P30279; KIAK0002; MGC102758; CCND2; ENSG00000118971; 894
CCND3	Cyclin D_3	896	6	6p21	yes		MM			L	Dom	T	IGH@			CCND3; P30281; ENSG00000112576; 896
CCNE1	Cyclin E_{1+B89}	898	19	19q12	yes		Serous ovarian			E	Dom	A				898; CCNE; P24864; ENSG00000105173; CCNE1
CD273	Programmed cell death 1 ligand 2	80380	9	9p24.2	yes		PMBL; Hodgkin lymphoma			L	Dom	T	CIITA			bA574F11_2; Q9BQ51; PDL2; PD-L2; MGC142238; CD273; PDCD1L2; Btdc; MGC142240; ENSG00000197646; 80380; PDCD1LG2; B7DC
CD274	CD274 molecule	29126	9	9p24	yes		PMBL; Hodgkin lymphoma			L	Dom	T	CIITA			CD274; PDL1; B7-H; Q9NZQ7; B7H1; MGC142294; PDCD1LG1; MGC142296; PD-L1; PDCD1L1; ENSG00000120217; 29126

CD74	CD74 molecule; major histocompatibility complex; class II invariant chain	972	5	5q32	yes		NSCLC			E	Dom	T	ROS1			972; ENSG00000019582; DHLAG; HLADG; Ia-GAMMA; protein 41; CD74
CD79A	CD79a molecule; immunoglobulin-associated alpha	973	19	19q13.2	yes		DLBCL; WM			L	Dom	S			agammaglobulinaemia	973; ENSG00000105369; IGA; MB-1; P11912; CD79A
CD79B	CD79b molecule; immunoglobulin-associated beta	974	17	17q23	yes		DLBCL; WM			L	Dom	Mis; S			agammaglobulinaemia	974; ENSG00000007312; B29; IGB; P40259; CD79B
CDC73	Cell division cycle 73	79577	1	1q21-q31	yes	yes	Parathyroid adenoma	Parathyroid adenoma; multiple ossifying jaw fibroma	Hyperparathyroidism-jaw tumour syndrome	E; M	Rec	Mis; N; F				79577; HRPT2; C1orf28; FLJ23316; Q6P1J9; HPT-JT; ENSG00000134371; CDC73
CDH1	Cadherin 1; type 1; E-cadherin (epithelial) (ECAD)	999	16	16q22.1	yes	yes	Lobular breast; gastric	gastric	Familial gastric carcinoma	E	Rec	Mis; N; F; S				999; uvomorulin; ECAD; CD324; LCAM; UVO; Arc-1; CDHE; ENSG00000039068; CDH1; P12830
CDH11	Cadherin 11; type 2; OB-cadherin (osteoblast)	1009	16	16q22.1	yes		Aneurysmal bone cyst			M	Dom	T	USP6			1009; OB; P55287; CAD11; ENSG00000140937; CDH11
CDK12	Cyclin-dependent kinase 12	51755	17	17q12	yes		Serous ovarian			E	Rec	Mis; N; F				CRKRS; KIAA0904; Q9NYV4; CRKR; CRK7; ENSG00000167258; CRKRS; 51755

CDK4	Cyclin-dependent kinase 4	1019	12	12q14		yes		Melanoma	Familial malignant melanoma	E	Dom	Mis				MGC14458; PSK-J3; P11802; CMM3; ENSG00000135446; CDK4; 1019
CDK6	Cyclin-dependent kinase 6	1021	7	7q21-q22	yes		ALL			L	Dom	T	MLLT10			MGC59692; PLSTIRE; ENSG00000105810; Q00534; CDK6; 1021
CDKN2A	Cyclin-dependent kinase inhibitor 2A (p16(INK4a)) gene	1029	9	9p21	yes	yes	Melanoma; multiple other tumour types	Melanoma; pancreatic	Familial malignant melanoma	L; E; M; O	Rec	D; Mis; N; F; S				p19; CDK4I; INK4; MLM; p16INK4; p14ARF; INK4a; p16INK4a; MTS1; p16; TP16; ARF; CMM2; p14; ENSG00000147889; P42771; 1029; CDKN2A; CDKN2
CDKN2a (p14)	Cyclin-dependent kinase inhibitor 2A--p14arf protein	1031	1	1p32	yes		Glioma; MM			O; L	Rec	D				1031; P42773; p18-INK4C; p18; INK4C; CDKN2C; ENSG00000123080
CDKN2C	Cyclin-dependent kinase inhibitor 2C (p18; inhibits CDK_4)	1029	9	9p21	yes	yes	Melanoma; multiple other tumour types	Melanoma; pancreatic	Familial malignant melanoma	L; E; M; O	Rec	D; S				Q8N726; CDKN2a(p14); 1029; ENSG00000147889; ARF; CDK4I; CDKN2; CMM2; INK4; INK4a; MLM; MTS1; p14; p14ARF; p16; p16INK4; p16INK4a; p19; TP16
CDX2	Caudal type homeo box transcription factor 2	1045	13	13q12.3	yes		AML			L	Dom	T	ETV6			1045; CDX3; Q99626; ENSG00000165556; CDX2

CEBPA	CCAAT/enhancer binding protein (C/EBP); alpha	1050	19	19q13.1	yes		AML; MDS			L	Dom	Mis; N; F				CEBPA; CEBP; P49715; C/EBP-alpha; 1050
CEP1	Centrosomal protein 1	11064	9	9q33	yes		MPN; NHL			L	Dom	T	FGFR1			CEP110; CEP1; ENSG00000119397; 11064; CEP110
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7	79145	8	8q11.2	yes		salivary gland adenoma			E	Dom	T	PLAG1			79145; ENSG00000170791; FLJ40966; MGC2217; Q9BUK0; CHCHD7
CHEK2	CHK2 checkpoint homolog (S. Pombe)	11200	22	22q12.1		yes		Breast	Familial breast cancer	E	Rec	F				HuCds1; bA444G7; CDS1; CHK2; LFS2; PP1425; RP11-436C9_1; RAD53; O96017; ENSG00000183765; 11200; CHEK2
CHIC2	Cysteine-rich hydrophobic domain 2	26511	4	4q11-q12	yes		AML			L	Dom	T	ETV6			26511; BTL; Q9UKJ5; CHIC2
CHN1	Chimerin (chimaerin) 1	1123	2	2q31-q32.1	yes		Extraskeletal myxoid chondrosarcoma			M	Dom	T	TAF15			CHN1; ARHGAP2; RHOGAP2; n-chimerin; CHN; RhoGAP2; ENSG00000128656; 1123
CIC	Capicua homolog	23152	19	19q13.2	yes		Oligodendroglioma; soft tissue sarcoma			O	Rec					
CIITA	Class II; major histocompatibility complex; transactivator	4261	16	16p13	yes		PMBL; Hodgkin lymphoma			L	Dom	T	FLJ27352; CD274; CD273; RALGDS; RUNDC2A; C16orf75; BCL6			4261; P33076; C2TA; MHC2TA; ENSG00000179583; CIITA

CLTC	Clathrin; heavy polypeptide (Hc)	1213	17	17q11-qter	yes		ALCL; renal			L	Dom	T	ALK; TFE3			Q00610; CLTCL2; ENSG00000141367; 1213; CLTC
CLTCL1	Clathrin; heavy polypeptide-like 1	8218	22	22q11.21	yes		ALCL			L	Dom	T	?			8218; CLTCL; P53675; ENSG00000070371; CLTCL1
CMKOR1	Chemokine orphan receptor 1	57007	2	2q37.3	yes		Lipoma			M	Dom	T	HMGA2			CMKOR1; GPR159; P25106; RDC1; ENSG00000144476; 57007; CXCR7
CNOT3	CCR4-NOT transcription complex subunit 3	4849	19	19q13.4	yes		T-ALL			L	Rec	Mis; N; F				4849; KIAA0691; LENG2; NOT3; NOT3H; O75175; ENSG00000088038; CNOT3
COL1A1	Collagen; type I; alpha 1	1277	17	17q21.31-q22	yes		Dermatofibrosarcoma protuberans; aneurysmal bone cyst			M	Dom	T	PDGFB; USP6	yes	Osteogenesis imperfecta	COL1A1; P02452; OI4; ENSG00000108821; 1277
COPEB	Core promoter element binding protein (KLF6)	1316	10	10p15	yes		Prostate; glioma			E; O	Rec	Mis; N				DKFZp686N0199; RP11-184A2_1; BCD1; GBF; PAC1; ZF9; COPEB; Zf9; CPBP; ST12; ENSG00000067082; 1316; KLF6
COX6C	Cytochrome c oxidase subunit vic	1345	8	8q22-q23	yes		Uterine leiomyoma			M	Dom	T	HMGA2			COX6C; P09669; ENSG00000164919; 1345
CREB1	Camp responsive element binding protein 1	1385	2	2q34	yes		Clear cell sarcoma; angiomatoid fibrous histiocytoma			M	Dom	T	EWSR1			CREB1; ENSG00000118260; 1385

CREB3L1	Camp responsive element binding protein 3-like 1	90993	11	11p11.2	yes		Myxofibrosarcoma			M	Dom	T	FUS			90993; CREB3L1; ENSG00000157613; OASIS; Q96BA8
CREB3L2	Camp responsive element binding protein 3-like 2	64764	7	7q34	yes		Fibromyxoid sarcoma			M	Dom	T	FUS			MGC131709; MGC71006; BBF2H7; TCAG_1951439; ENSG00000182158; CREB3L2; 64764
CREBBP	CREB binding protein (CBP)	1387	16	16p13.3	yes		ALL; AML; DLBCL; B-NHL			L	Dom/Rec	T; N; F; Mis; O	MLL; MORF; RUNXBP2	yes	Rubinstein-Taybi syndrome	1387; CBP; RTS; RSTS; ENSG00000005339; CREBBP
CRLF2	Cytokine receptor-like factor 2	64109	X; Y	Xp22.3; Yp11.3	yes		B-ALL; Downs associated ALL			L	Dom	Mis; T	P2RY8; IGH@			CRLF2; ENSG00000205755
CRTC3	CREB regulated transcription coactivator 3	64784	15	15q26.1	yes		Salivary gland mucoepidermoid			E	Dom	T	MAML2			64784; FLJ21868; TORC3; ENSG00000140577; CRTC3
CSF3R	Colony stimulating factor 3 receptor (granulocyte)	1441	1	1p35-p34.3	yes		aCML; chronic neutrophilic leukaemia			L						1441; CD114; GCSFR; ENSG00000119535; CSF3R
CTNNB1	Catenin (cadherin-associated protein); β1	1499	3	3p22-p21.3	yes		Colorectal; ovarian; hepatoblastoma; pleomorphic salivary gland adenoma; other tumour types			E; M; O	Dom	H; Mis; T	PLAG1			P35222; CTNNB; ENSG00000168036; 1499; CTNNB1

CYLD	Familial cylindromatosis gene	1540	16	16q12-q13	yes	yes	Cylindroma	Cylindroma	Familial cylindromatosis	E	Rec	Mis; N; F; S				1540; CYLD1; FLJ20180; EAC; FLJ31664; HSPC057; CDMT; CYLDI; KIAA0849; USPL2; ENSG00000083799; CYLD
D10S170	DNA segment on chromosome 10 (unique) 170; H4 gene (PTC1)	8030	10	10q21	yes		Papillary thyroid; CML			E	Dom	T	RET; PDGFRB			
DAXX	Death-domain associated protein	1616	6	6p21.3	yes		Pancreatic neuroendocrine tumour; paediatric glioblastoma			E	Rec	Mis; F; N				MGC126246; BING2; DAP6; DAQB-126H3_2; MGC126245; Q9UER7; ENSG00000206206; 1616; DAXX
DDB2	Damage-specific DNA binding protein 2	1643	11	11p12		yes		Skin basal cell; skin squamous cell; melanoma	Xeroderma pigmentosum (E)	E	Rec	Mis; N				DDB2; Q92466; FLJ34321; ENSG00000134574; 1643
DDIT3	DNA-damage-inducible transcript 3	1649	12	12q13.1-q13.2	yes		Liposarcoma			M	Dom	T	FUS			DDIT3; CEBPZ; CHOP; P35638; CHOP10; GADD153; MGC4154; _C/EBP zeta_; ENSG00000175197; 1649
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	1662	11	11q22-q23	yes		AML*			L	Dom	T	NUP98			1662; HRH-J8; Q13206; ENSG00000178105; DDX10

DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	1655	17	17q21	yes		Prostate			E	Dom	T	ETV4			1655; HLR1; HUMP68; G17P1; p68; DKFZp686J01190; P17844; ENSG00000108654; DDX5
DDX6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	1656	11	11q23.3	yes		B-NHL			L	Dom	T	IGH@			1656; P54; FLJ36338; RCK; P26196; HLR2; ENSG00000110367; DDX6
DEK	DEK oncogene (DNA binding)	7913	6	6p23	yes		AML			L	Dom	T	NUP214			7913; D6S231E; P35659; ENSG00000124795; DEK
DICER1	Dicer 1; ribonuclease type III	23405	14	14q32.13	yes	yes	Sex cord-stromal tumour; TGCT; embryonal rhabdomyosarcoma	Pleuropulmonary blastoma	Familial pleuropulmonary blastoma	E; M; O	Rec	Mis F; N				23405; Dicer; Q9UPY3; K12H4_8-LIKE; HERNA; KIAA0928; ENSG00000100697; DICER1
DNM2	Dynamin 2	1785	19	19p13.2	yes		ETP ALL			L	Rec	F; N; Splice; Mis; O				1785; CMTDI1; CMTDIB; DYN2; DYNII; ENSG00000079805; DNM2
DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	1788	2	2p23	yes		AML			L	Rec	Mis; F; N; S				DNMT3A; Q9Y6K1; M_HsaIIIA; DNMT3A2; 1788; ENSG00000119772
DUX4	Double homeobox; 4	22947	4	4q35	yes		Soft tissue sarcoma			M	Dom	T	CIC			P0CJ90; DUX4; P0CJ85; P0CJ86; P0CJ88; P0CJ89
EBF1	Early B-cell factor 1	1879	5	5q34	yes		Lipoma			M	Dom	T	HMGA2			1879; COE1; EBF; O/E-1; OLF1; Q9UH73; ENSG00000164330; EBF1

ECT2L	Epithelial cell transforming sequence 2 oncogene-like	345930	6	6q24.1	yes		ETP ALL			L	Rec	N; Splice; Mis				345930; C6orf91; ENSG00000203734; dJ509I19_2; dJ509I19_3; Q008S8; C6orf91; LFDH
EGFR	Epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog; avian)	1956	7	7p12.3-p12.1	yes	yes	Glioma; NSCLC	NSCLC	Familial lung cancer	E; O	Dom	A; O; Mis				EGFR; mENA; ERBB; ERBB1; ENSG00000146648; P00533; 1956
EIF4A2	Eukaryotic translation initiation factor 4A; isoform 2	1974	3	3q27.3	yes		NHL			L	Dom	T	BCL6			1974; DDX2B; EIF4A; BM-010; EIF4F; ENSG00000156976; EIF4A2
ELF4	E74-like factor 4 (ets domain transcription factor)	2000	X	Xq26	yes		AML			L	Dom	T	ERG			2000; MEF; Q99607; RP3-510O21_2; ELFR; ENSG00000102034; ELF4
ELK4	ELK4; ETS-domain protein (SRF accessory protein 1)	2005	1	1q32	yes		prostate			E	Dom	T	SLC45A3			2005; SAP1; P28324; ENSG00000158711; ELK4
ELKS	ELKS protein	23085	12	12p13.3	yes		Papillary thyroid			E	Dom	T	RET			ERC1; KIAA108; Q8IUD2; Cast2; KIAA1081; RAB6IP2; MGC12974; ENSG00000082805; 23085; ELKS
ELL	ELL gene (11-19 lysine-rich leukemia gene)	8178	19	19p13.1	yes		AL			L	Dom	T	MLL			ELL; P55199; Men; C19orf17; ELL1; ENSG00000105656; 8178

ELN	Elastin	2006	7	7q11.23	yes		B-ALL			L	Dom	T	PAX5	yes	Supravalvular Aortic Stenosis; Cutis laxa; Williams-Beuren Syndrome	2006; ENSG00000049540; FLJ38671; FLJ43523; SVAS; WBS; WS; ELN
EML4	Echinoderm microtubule associated protein like 4	27436	2	2p21	yes		NSCLC			E	Dom	T	ALK			EML4; ENSG00000143924; 27436
EP300	300 kDa E1A-Binding protein gene	2033	22	22q13	yes		Colorectal; breast; pancreatic; AML; ALL; DLBCL			L; E	Rec	T; N; F; Mis; O	MLL; RUNXBP2			2033; ENSG00000100393; p300; RP1-85F18_1; EP300
EPS15	Epidermal growth factor receptor pathway substrate 15 (AF1p)	2060	1	1p32	yes		ALL			L	Dom	T	MLL			AF-1P; AF1P; MLLT5; P42566; ENSG00000085832; EPS15; 2060
ERBB2	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2; neuro/glioblastoma derived oncogene homolog (avian)	2064	17	17q21.1	yes		Breast; ovarian; other tumour types; NSCLC; gastric			E	Dom	A; Mis; O				HER-2; c-erb B2; NEU; TKR1; NGL; HER2; HER-2/neu; c-erbB2; ENSG00000141736; P04626; 2064; ERBB2

ERCC2	Excision repair cross-complementing rodent repair deficiency; complementation group 2 (xeroderma pigmentosum D)	2068	19	19q13.2-q13.3		yes		Skin basal cell; skin squamous cell; melanoma	Xeroderma pigmentosum (D)	E	Rec	Mis; N; F; S				XPD; TTD; MGC126218; MGC126219; P18074; MAG; COFS2; ENSG00000104884; ERCC2; 2068; MGC102762; EM9
ERCC3	Excision repair cross-complementing rodent repair deficiency; complementation group 3 (xeroderma pigmentosum group B complementing)	2071	2	2q21		yes		Skin basal cell; skin squamous cell; melanoma	Xeroderma pigmentosum (B)	E	Rec	Mis; S				2071; RAD25; XPB; BTF2; P19447; TFIIH; GTF2H; ENSG00000163161; ERCC3
ERCC4	Excision repair cross-complementing rodent repair deficiency; complementation group 4	2072	16	16p13.3-p13.13		yes		Skin basal cell; skin squamous cell; melanoma	Xeroderma pigmentosum (F)	E	Rec	Mis; N; F				Q92889; XPF; RAD1; ENSG00000175595; 2072; ERCC4

ERCC5	Excision repair cross-complementing rodent repair deficiency; complementation group 5 (xeroderma pigmentosum; complementation group G (Cockayne syndrome))	2073	13	13q33		yes		Skin basal cell; skin squamous cell; melanoma	Xeroderma pigmentosum (G)	E	Rec	Mis; N; F				2073; XPGC; ERCM2; UVDR; XPG; COFS3; RP11-484I6_5; ENSG00000134899; ERCC5
ERG	V-ets erythroblastosis virus E26 oncogene like (avian)	2078	21	21q22.3	yes		Ewing sarcoma; prostate; AML			M; E; L	Dom	T	EWSR1; TMPRSS2; ELF4; FUS; HERPUD1; NDRG1			ERG; P11308; 2078
ETV1	Ets variant gene 1	2115	7	7p22	yes		Ewing sarcoma; prostate			M; E	Dom	T	EWSR1; TMPRSS2; SLC45A3; C15orf21; HNRNPA2B1. ACSL3			ETV1; DKFZp781L0674; MGC120534; MGC104699; MGC120533; ER81; ENSG00000006468; 2115
ETV4	Ets variant gene 4 (E1A enhancer binding protein; E1AF)	2118	17	17q21	yes		Ewing sarcoma; prostate carcinoma			M; E	Dom	T	EWSR1; TMPRSS2; DDX5; KLK2; CANT1			2118; PEA3; PEAS3; E1A-F; E1AF; ENSG00000175832; ETV4
ETV5	Ets variant gene 5	2119	3	3q28	yes		Prostate			E	Dom	T	TMPRSS2; SCL45A3			2119; P41161; ERM; ENSG00000244405; ETV5

ETV6	Ets variant gene 6 (TEL oncogene)	2120	12	12p13	yes		Congenital fibrosarcoma; multiple leukaemia and lymphoma; secretory breast; MDS; ALL			L; E; M	Dom	T	NTRK3; RUNX1; PDGFRB; ABL1; MN1; ABL2; FACL6; CHIC2; ARNT; JAK2; EVI1; CDX2; STL; HLXB9; MDS2; PER1; SYK; TTL; FGFR3; PAX5			P41212; TEL/ABL; TEL; ETV6; ENSG00000139083; 2120
EVI1	Ecotropic viral integration site 1	2122	3	3q26	yes		AML; CML			L	Dom	T	RUNX1; ETV6; PRDM16; RPN1			EVI1; MDS1-EVI1; PRDM3; Q03112; ENSG00000085276; 2122; EVI1
EWSR1	Ewing sarcoma breakpoint region 1 (EWS)	2130	22	22q12	yes		Ewing sarcoma; desmoplastic small round cell tumour ; ALL; clear cell sarcoma; sarcoma; myoepithelioma			L; M	Dom	T	FLI1; ERG; ZNF278; NR4A3; FEV; ATF1; ETV1; ETV4; WT1; ZNF384; CREB1; POU5F1; PBX1			2130; EWS; ENSG00000182944; EWSR1
EXT1	Multiple exostoses type 1 gene	2131	8	8q24.11-q24.13		yes		Exostoses; osteosarcoma	Multiple exostoses type 1	M	Rec	Mis; N; F; S				2131; ttv; Q16394; EXT; ENSG00000182197; EXT1
EXT2	Multiple exostoses type 2 gene	2132	11	11p12-p11		yes		Exostoses; osteosarcoma	Multiple exostoses type 2	M	Rec	Mis; N; F; S				ENSG00000151348; Q93063; SOTV; 2132; EXT2

EZH2	Enhancer of zeste homolog 2	2146	7	7q35-q36	yes		DLBCL			L	Rec?	Mis				EZH1; ENX-1; MGC9169; Q15910; ENSG00000106462; EZH2; 2146
EZR	Ezrin	7430	6	6q25.3	yes		NSCLC			E	Dom	T	ROS1			7430; ENSG00000092820; CVL; DKFZp762H157; MGC1584; P15311; CVIL; FLJ26216; EZR
FACL6	Fatty-acid-coenzyme A ligase; long-chain 6	23305	5	5q31	yes		AML; AEL			L	Dom	T	ETV6			23305; FACL6; LACS2; ACS2; LACS5; KIAA0837; ENSG00000164398; ACSL6
FAM46C	Family with sequence similarity 46; member C	54855	1	1p12	yes		MM			L	Rec	Mis; F; O				Q5VWP2; FAM46C; 54855; ENSG00000183508; FLJ20202
FANCA	Fanconi anemia; complementation group A	2175	16	16q24.3		yes		AML; leukaemia	Fanconi anaemia A	L	Rec	D; Mis; N; F; S				FA1; MGC75158; FANCH; FAH; FA; FA-H; ENSG00000187741; 2175; FANCA; FAA; FACA
FANCC	Fanconi anemia; complementation group C	2176	9	9q22.3		yes		AML; leukaemia	Fanconi anaemia C	L	Rec	D; Mis; N; F; S				FAC; ENSG00000158169; FLJ14675; FACC; FA3; RP11-80I15_2; 2176; FANCC
FANCD2	Fanconi anemia; complementation group D2	2177	3	3p26		yes		AML; leukaemia	Fanconi anaemia D2	L	Rec	D; Mis; N; F				FACD; FANCD; DKFZp762A223; FAD2; FA4; FLJ23826; ENSG00000144554; FANCD2; 2177; FAD; FA-D2
FANCE	Fanconi anemia; complementation group E	2178	6	6p21-p22		yes		AML; leukaemia	Fanconi anaemia E	L	Rec	N; F; S				FANCE; FACE; FAE; ENSG00000112039; 2178

FANCF	Fanconi anemia; complementation group F	2188	11	11p15		yes		AML; leukaemia	Fanconi anaemia F	L	Rec	N; F				FANCF; FAF; MGC126856; Q9NPI8; ENSG00000183161; 2188
FANCG	Fanconi anemia; complementation group G	2189	9	9p13		yes		AML; leukaemia	Fanconi anaemia G	L	Rec	Mis; N; F; S				FANCG; ENSG00000221829; FAG; XRCC9; O15287; 2189
FAS	Fas cell surface death receptor	355	10	10q24.1	yes		TGCT; nasal NK/T lymphoma; skin squamous cell carcinoma-burn scar related			L; E; O	Rec	Mis		yes	Autoimmune lymphoproliferative syndrome	FAS; FAS1; APT1; TNFRSF6; ALPS1A; CD95; P25445; APO-1; FASTM; ENSG00000026103; 355
FBXO11	F-box protein 11	80204	2	2p16.3	yes		DLBCL			L	Rec	Mis; F; D				FBX11; MGC44383; FLJ12673; PRMT9; UG063H01; Q86XK2; ENSG00000138081; 80204; FBXO11; VIT1
FBXW7	F-box and WD-40 domain protein 7 (archipelago homolog; Drosophila)	55294	4	4q31.3	yes		Colorectal; endometrial; T-ALL			E; L	Rec	Mis; N; D; F				DKFZp686F23254; AGO; FBX30; FBW7; SEL10; FBXW6; CDC4; SEL-10; FLJ11071; ENSG00000109670; 55294; FBXW7
FCGR2B	Fc fragment of igg; low affinity iib; receptor for (CD32)	2213	1	1q23	yes		ALL			L	Dom	T	?			CD32; FCGR2; IGFR2; CD32B; ENSG00000072694; FCGR2B; 2213; P31994; FCG2
FEV	FEV protein - (HSRNAFEV)	54738	2	2q36	yes		Ewing sarcoma			M	Dom	T	EWSR1; FUS			54738; Pet-1; HSRNAFEV; PET-1; ENSG00000163497; FEV

FGFR1	Fibroblast growth factor receptor 1	2260	8	8p11.2-p11.1	yes		MPN; NHL			L	Dom	T	BCR; FOP; ZNF198; CEP1	yes	Pfeiffer syndrome; Kallman syndrome	2260; CEK; H4; N-SAM; BFGFR; H2; KAL2; H5; FGFBR; FLG; HBGFR; H3; CD331; FLT2; P11362; ENSG00000077782; FGFR1
FGFR1OP	FGFR1 oncogene partner (FOP)	11116	6	6q27	yes		MPN; NHL			L	Dom	T	FGFR1			11116; FOP; ENSG00000213066; FGFR1OP
FGFR2	Fibroblast growth factor receptor 2	2263	10	10q26	yes		Gastric; NSCLC; endometrial			E	Dom	Mis		yes	Crouzon; Pfeiffer; and Apert syndromes	2263; BFR-1; KGFR; CFD1; K-SAM; CEK3; ECT1; TK25; JWS; CD332; BEK; TK14; ENSG00000066468; FGFR2
FGFR3	Fibroblast growth factor receptor 3	2261	4	4p16.3	yes		Bladder; MM; T-cell lymphoma			L; E	Dom	Mis; T	IGH@; ETV6	yes	Hypochondroplasia; Thanatophoric dysplasia	FGFR3; CD333; CEK2; HSFGFR3EX; ACH; JTK4; P22607; ENSG00000068078; 2261
FH	Fumarate hydratase	2271	1	1q42.1		yes		Leiomyomatosis; renal	Hereditary leiomyomatosis and renal cell cancer	E; M	Rec	Mis; N; F				2271; HLRCC; P07954; LRCC; MCL; MCUL1; ENSG00000091483; FH
FHIT	Fragile histidine triad gene	2272	3	3p14.2	yes		Pleomorphic salivary gland adenoma			E	Dom	T	HMGA2			P49789; FHIT; 2272; ENSG00000189283; AP3Aase; FRA3B
FIP1L1	FIP1 like 1 (S. Cerevisiae)	81608	4	4q12	yes		Idiopathic hypereosinophilic syndrome			L	Dom	T	PDGFRA			81608; DKFZp586K0717; Q6UN15; ENSG00000145216; FIP1L1

FLI1	Friend leukemia virus integration 1	2313	11	11q24	yes		Ewing sarcoma			M	Dom	T	EWSR1			FLI1; SIC-1; Q01543; EWSR2; ENSG00000151702; 2313
FLJ27352	BX648577; FLJ27352 hypothetical LOC145788	145788	15	15q21.3	yes		PMBL; Hodgkin lymphoma			L	Dom	T	CIITA			
FLT3	Fms-related tyrosine kinase 3	2322	13	13q12	yes		AML; ALL			L	Dom	Mis; O				2322; STK1; RP11-153M24_3; CD135; FLK2; P36888; ENSG00000122025; FLT3
FNBP1	Formin binding protein 1 (FBP17)	23048	9	9q23	yes		AML			L	Dom	T	MLL			SH2D3B; NSP2; KIAA0554; ENSG00000137936; BCAR3; 8412
FOXA1	Forkhead box A1	3169	14	q12-q13	yes		Breast; prostate			E	Dom	Mis; F				3169; TCF3A; MGC33105; HNF3A; P55317; ENSG00000129514; FOXA1
FOXL2	Forkhead box L2	668	3	3q23	yes		Granulosa-cell tumour of the ovary			O	Dom	Mis		yes	Blepharophimosis; ptosis and epicanthus inversus Types I; II; Premature ovarian failure type III	668; BPES; BPES1; PINTO; POF3; PFRK; P58012; ENSG00000183770; FOXL2
FOXO1A	Forkhead box O1A (FKHR)	2308	13	13q14.1	yes		Alveolar rhabdomyosarcoma			M	Dom	T	PAX3			Q12778; FOXO1; FKHR; FKH1; ENSG00000150907; FOXO1A; FOXO1A; 2308

FOXO3A	Forkhead box O3A	2309	6	6q21	yes		AL			L	Dom	T	MLL			FOXO2; DKFZp781A0677; FKHRL1P2; AF6q21; O43524; FOXO3A; MGC12739; MGC31925; ENSG00000118689; FOXO3; 2309; FKHRL1
FOXP1	Forkhead box P1	27086	3	3p14.1	yes		ALL			L	Dom	T	PAX5			27086; MGC12942; MGC88572; HSPC215; 12CC4; QRF1; FLJ23741; MGC99551; hFKH1B; ENSG00000114861; FOXP1
FSTL3	Follistatin-like 3 (secreted glycoprotein)	10272	19	19p13	yes		B-CLL			L	Dom	T	CCND1			10272; FLRG; O95633; ENSG00000070404; FSTL3
FUBP1	Far upstream element (FUSE) binding protein 1	8880	1	1p13.1	yes		Oligodendroglioma			O	Rec	F; N				FUBP; FBP; ENSG00000162613; 8880; FUBP1
FUS	Fusion; derived from t(12;16) malignant liposarcoma	2521	16	16p11.2	yes		Liposarcoma; AML; Ewing sarcoma; angiomatoid fibrous histiocytoma; fibromyxoid sarcoma			M; L	Dom	T	DDIT3; ERG; FEV; ATF1; CREB3L2; CREB3L1			2521; TLS; P35637; FUS1; CHOP; FUS-CHOP; TLS/CHOP; ENSG00000089280; FUS
FVT1	Follicular lymphoma variant translocation 1	2531	18	18q21.3	yes		B-NHL			L	Dom	T	IGK@			2531; Q06136; FVT1; ENSG00000119537; FVT1

GAS7	Growth arrest-specific 7	8522	17	17p	yes		AML*			L	Dom	T	MLL			8522; KIAA0394; O60861; MLL/GAS7; MGC1348; ENSG00000007237; GAS7
GATA1	GATA binding protein 1 (globin transcription factor 1)	2623	X	Xp11.23	yes		Megakaryoblastic leukaemia of Downs syndrome			L	Dom	Mis; F				P15976; ERYF1; GF1; NFE1; ENSG00000102145; GATA1; 2623
GATA2	GATA binding protein 2	2624	3	3q21.3	yes		AML (CML blast transformation)			L	Dom	Mis				2624; NFE1B; P23769; MGC2306; ENSG00000179348; GATA2
GATA3	GATA binding protein 3	2625	10	10p15	yes		Breast			E	Rec	F; N; S		yes	HDR syndrome (HYPOPARATHYROIDISM; SENSORINEURAL DEAFNESS; AND RENAL DISEASE)	GATA3; HDR; MGC2346; MGC5199; MGC5445; ENSG00000107485; 2625
GMPS	Guanine monphosphate synthetase	8833	3	3q24	yes		AML			L	Dom	T	MLL			8833; ENSG00000163655; GMPS
GNA11	Guanine nucleotide binding protein (G protein); alpha 11 (Gq class)	2767	19	19p13.3	yes		Uveal melanoma			E	Dom	Mis				GNA11; GNA-11; ENSG00000088256; 2767

GNAQ	Guanine nucleotide binding protein (G protein); q polypeptide	2776	9	9q21	yes		Uveal melanoma			E	Dom	Mis				2776; P50148; GAQ; RP11-494N1_1; G-ALPHA-q; ENSG00000156052; GNAQ
GNAS	Guanine nucleotide binding protein (G protein); alpha stimulating activity polypeptide 1	2778	20	20q13.2	yes		Pituitary adenoma			E	Dom	Mis		yes	McCune-Albright syndrome; pseudohypoparathyroidism; type IA	2778; RP4-543J19_4; PHP1B; XLalphas; AHO; GSA; PHP1A; XL; MGC33735; XL2; dJ806M20_3_3; Gnas; GPSA; SCG6; dJ309F20_1_1; C20orf45; GNAS1; GNASXL; POH; GSP; NESP; NESP55; ENSG00000087460; GNAS
GOLGA5	Golgi autoantigen; golgin subfamily a; 5 (PTC5)	9950	14	14q	yes		Papillary thyroid			E	Dom	T	RET			9950; ret-II; Q8TBA6; golgin-84; rfg5; ENSG00000066455; GOLGA5
GOPC	Golgi associated PDZ and coiled-coil motif containing	57120	6	6q21	yes		Glioblastoma			O	Dom	O				
GPC3	Glypican 3	2719	X	Xq26.1		yes		Wilms tumour	Simpson-Golabi-Behmel syndrome	O	Rec/X	T; D; Mis; N; F; S				2719; OCI-5; SGBS1; AC002420_1; P51654; SDYS; DGSX; SGB; SGBS; ENSG00000147257; GPC3
GPHN	Gephyrin (GPH)	10243	14	14q24	yes		AL			L	Dom	T	MLL			10243; ENSG00000171723; GPHN

GRAF	Gtpase regulator associated with focal adhesion kinase pp125(FAK)	23092	5	5q31	yes		AML; MDS			L	Dom	T; F; S	MLL			OPHN1L1; KIAA0621; FLJ42530; GRAF; OPHN1L; ENSG00000145819; 23092; ARHGAP26
H3F3A	H3 histone; family 3A	3020	1	1q42.12	yes		Glioma			O	Dom	Mis				ENSG00000163041; H3F3A; 3020; H3_3A; H3F3; MGC87782; MGC87783; H3_3B; H3F3A; LOC347376; P84243
H3F3B	H3 histone; family 3B (H3.3B)	3021	17	q25.1	yes		Chondroblastoma			M	Dom	Mis				3021; H3_3A; H3F3; MGC87782; MGC87783; H3_3B; H3F3A; LOC347376; P84243; ENSG00000132475; H3F3B
HCMOGT-1	Sperm antigen HCMOGT-1	92521	17	17p11.2	yes		JMML			L	Dom	T	PDGFRB			SPECC1; FLJ36955; HCMOGT-1; NSP; Q5M775; ENSG00000128487; CYTSB; SPECC1; 92521
HEAB	ATP_GTP binding protein	10978	11	11q12	yes		AML			L	Dom	T	MLL			10978; ENSG00000172409; HEAB; Q92989; hClp1; CLP1
HERPUD1	Homocysteine-inducible; endoplasmic reticulum stress-inducible; ubiquitin-like domain member 1	9709	16	16q12.2-q13	yes		prostate			E	Dom	T	ERG			9709; ENSG00000051108; HERP; KIAA0025; Mif1; SUP; Q15011; HERPUD1

HEY1	Hairy/enhancer-of-split related with YRPW motif 1	23462	8	8q21	yes		Mesenchymal chondrosarcoma			M	Dom	T	NCOA2			HESR1; HERP2; OAF1; CHF-2; HRT-1; MGC1274; HESR-1; CHF2; ENSG00000164683; HEY1; 23462
HIP1	Huntingtin interacting protein 1	3092	7	7q11.23	yes		CMML			L	Dom	T	PDGFRB			3092; ILWEQ; ENSG00000127946; HIP1
HIST1H3B	Histone cluster 1; h3b	3020	6	6p22.1	yes		Glioma			O	Dom	Mis				H3_1; HIST1H3B; 8358; ENSG00000124693; H3/A; H3FA; H3/l; H3FL; H3/c; H3FC; H3/b; H3FB; H3/d; H3FD; H3/i; H3FI; H3/h; H3FH; H3/k; H3F1K; H3FK; H3_f; H3/f; H3FF; H3/j; H3FJ; P68431
HIST1H4I	Histone 1; H4i (H4FM)	8294	6	6p21.3	yes		NHL			L	Dom	T	BCL6			8294; HIST4H4; MGC24116; P62805; HIST1H4I
HLF	Hepatic leukemia factor	3131	17	17q22	yes		ALL			L	Dom	T	TCF3			3131; Q16534; ENSG00000108924; HLF
HLXB9	Homeo box HB9	3110	7	7q36	yes		AML			L	Dom	T	ETV6	yes	CURRARINO SYNDROME	3110; HB9; HLXB9; P50219; ENSG00000130675; HLXB9
HMGA1	High mobility group AT-hook 1	3159	6	6p21	yes		Microfollicular thyroid adenoma; various benign mesenchymal tumours			E; M	Dom	T	?			HMGA1; MGC4242; HMG-R; MGC4854; P17096; HMGIY; MGC12816; ENSG00000137309; 3159

HMGA2	High mobility group AT-hook 2 (HMGIC)	8091	12	12q15	yes		Lipoma; leiomyoma; pleomorphic salivary gland adenoma			M	Dom	T	LHFP; RAD51L1; LPP; COX6C; CMKOR1; NFIB; ALDH2; CCNB1IP1; EBF1; WIF1; FHIT			8091; HMGI-C; BABL; HMGIC; LIPO; ENSG00000149948; HMGA2
HNRNPA2B1	Heterogeneous nuclear ribonucleoprotein A2/B1	3181	7	7p15	yes		Prostate			E	Dom	T	ETV1			HNRNPA2B1; ENSG00000122566; 3181; HNRNPA2; HNRNPB1; HNRPB1; RNPA2; SNRPB1; HNRPA2
HOOK3	Hook homolog 3	84376	8	8p11.21	yes		Papillary thyroid			E	Dom	T	RET			84376; ENSG00000168172; HK3; Q86VS8; HOOK3
HOXA11	Homeo box A11	3207	7	7p15-p14.2	yes		CML			L	Dom	T	NUP98			HOXA11; HOX1; P31270; HOX1I; ENSG00000005073; 3207
HOXA13	Homeo box A13	3209	7	7p15-p14.2	yes		AML			L	Dom	T	NUP98			HOX1; P31271; HOX1J; ENSG00000106031; 3209; HOXA13
HOXA9	Homeo box A9	3205	7	7p15-p14.2	yes		AML*			L	Dom	T	NUP98; MSI2			HOXA9; HOX1; P31269; HOX1G; ENSG00000078399; 3205
HOXC11	Homeo box C11	3227	12	12q13.3	yes		AML			L	Dom	T	NUP98			3227; HOX3H; O43248; ENSG00000123388; HOXC11
HOXC13	Homeo box C13	3229	12	12q13.3	yes		AML			L	Dom	T	NUP98			3229; HOX3G; HOX3; P31276; ENSG00000123364; HOXC13
HOXD11	Homeo box D11	3237	2	2q31-q32	yes		AML			L	Dom	T	NUP98			3237; ENSG00000128713; HOXD11
HOXD13	Homeo box D13	3239	2	2q31-q32	yes		AML*			L	Dom	T	NUP98			3239; SPD; HOX4I; P35453; HOXD13

HRAS	V-Ha-ras Harvey rat sarcoma viral oncogene homolog	3265	11	11p15.5	yes	yes	Infrequent sarcomas; rare other tumour types	Rhabdomyosarcoma; ganglioneuroblastoma; bladder	Costello syndrome	E; L; M	Dom	Mis				HRAS; K-ras; N-ras; P01112; c-bas/has; RASH1; HRAS1; ENSG00000174775; 3265
HSPCA	Heat shock 90 kDa protein 1; α	3320	14	14q32.31	yes		NHL			L	Dom	T	BCL6			3320; FLJ31884; HSP86; Hsp89; Hsp90; HSP90A; HSP90N; HSPC1; HSPCA; HSPCAL1; HSPCAL4; HSPN; LAP2; P07900; ENSG00000080824; HSP90AA1
HSPCB	Heat shock 90 kDa protein 1; β	3326	6	6p12	yes		NHL			L	Dom	T	BCL6			3326; HSPCB; FLJ26984; HSPC2; D6S182; P08238; HSP90-BETA; HSP90B; ENSG00000096384; HSP90AB1
IDH1	Isocitrate dehydrogenase 1 ($NADP^+$); soluble	3417	2	2q33.3	yes		Glioblastoma			O	Dom	Mis				IDH1; IDP; O75874; PICD; IDH; ENSG00000138413; 3417
IDH2	Socitrate dehydrogenase 2 ($NADP^+$); mitochondrial	3418	15	15q26.1	yes		Glioblastoma			M	Dom	M				ICD-M; P48735; IDP; IDH; mNADP-IDH; ENSG00000182054; IDHM; IDH2; 3418

IGH@	Immunoglobulin heavy locus	3492	14	14q32.33	yes		MM; Burkitt lymphoma; NHL; CLL; B-ALL; MALT; MLCLS			L	Dom	T	MYC; FGFR3; PAX5; IRTA1; IRF4; CCND1; BCL9; BCL8; BCL6; BCL2; BCL3; BCL10; BCL11A. LHX4; DDX6; NFKB2; PAFAH1B2; PCSK7; CRLF2			
IGK@	Immunoglobulin kappa locus	50802	2	2p12	yes		Burkitt lymphoma; B-NHL			L	Dom	T	MYC; FVT1			
IGL@	Immunoglobulin lambda locus	3535	22	22q11.1-q11.2	yes		Burkitt lymphoma			L	Dom	T	BCL9; MYC; CCND2			
IKZF1	IKAROS family zinc finger 1	10320	7	7p12.2	yes		ALL; DLBCL			L	Rec; Dom	D; T	BCL6			Q13422; LyF-1; IKAROS; ZNFN1A1; Hs_54452; ENSG00000185811; 10320; IKZF1; hIk-1
IL2	Interleukin 2	3558	4	4q26-q27	yes		Intestinal T-cell lymphoma			L	Dom	T	TNFRSF17			3558; IL-2; P60568; ENSG00000109471; IL2
IL21R	Interleukin 21 receptor	50615	16	16p11	yes		NHL			L	Dom	T	BCL6			IL21R; Q9HBE5; ENSG00000103522; 50615

IL6ST	Interleukin 6 signal transducer (gp130; oncostatin M receptor)	3572	5	5q11	yes		Hepatocellular carcinoma			E	Dom	O				GP130; CDw130; CD130; GP130-RAPS; IL6R-beta; P40189; ENSG00000134352; IL6ST; 3572
IL7R	Interleukin 7 receptor	3575	5	5p13	yes		ALL; ETP ALL			L	Dom	Mis; O		yes	Severe combined immune deficiency	ENSG00000168685; IL7R; 3575; CD127; CDW127; IL-7R-alpha; P16871
IRF4	Interferon regulatory factor 4	3662	6	6p25-p23	yes		MM			L	Dom	T	IGH@			3662; LSIRF; Q15306; MUM1; ENSG00000137265; IRF4
IRTA1	Immunoglobulin superfamily receptor translocation associated 1	83417	1	1q21	yes		B-NHL			L	Dom	T	IGH@			83417; FCRH4; IGFP2; IRTA1; ENSG00000163518; FCRL4
ITK	IL2-inducible T-cell kinase	3702	5	5q31-q32	yes		Peripheral T-cell lymphoma			L	Dom	T	SYK			3702; PSCTK2; MGC126257; LYK; MGC126258; EMT; ENSG00000113263; Q08881; ITK
JAK1	Janus kinase 1	3716	1	1p32.3-p31.3	yes		ALL			L	Dom	Mis				JAK1A; JAK1_ENST00000342505; 3716; ENSG00000162434; JAK1B; JTK3; P23458
JAK2	Janus kinase 2	3717	9	9p24	yes		ALL; AML; MPN; CML			L	Dom	T; Mis; O	ETV6; PCM1; BCR			O60674; JAK2_ENST00000381652; 3717; ENSG00000096968; JTK10
JAK3	Janus kinase 3	3718	19	19p13.1	yes		Acute megakaryocytic leukaemia; ETP ALL			L	Dom	Mis				3718; L-JAK; JAK3_HUMAN; LJAK; JAK-3; JAKL; ENSG00000105639; P52333; JAK3

JAZF1	Juxtaposed with another zinc finger gene 1	221895	7	7p15.2-p15.1	yes		Endometrial stromal tumour			M	Dom	T	SUZ12			221895; Q86VZ6; ENSG00000153814; JAZF1
JUN	Jun oncogene	3725	1	1p32-p31	yes		Sarcoma			M	Dom	A				JUN; P05412; c-Jun; AP1; ENSG00000177606; 3725
KCNJ5	Potassium inwardly-rectifying channel; subfamily J; member 5	3762	11	11q24	yes	yes	Adrenal adenoma	Adrenal	Familial hyperaldosteronism type III	E	Dom	Mis		yes	Long QT syndrome	3762; ENSG00000120457; CIR; GIRK4; KATP1; KIR3_4; P48544; KCNJ5
KDM5A	Lysine (K)-specific demethylase 5A; JARID1A	5927	12	12p11	yes		AML			L	Dom	T	NUP98			5927; RBBP2; RBP2; JARID1A; ENSG00000073614; JARID1A
KDM5C	Lysine (K)-specific demethylase 5C (JARID1C)	8242	X	Xp11.22-p11.21	yes		Clear cell renal carcinoma			E	Rec	N; F; S				SMCX; XE169; RP11-258C19_2; MRXJ; MRXSJ; DXS1272E; ENSG00000126012; SMCX; 8242; JARID1C
KDM6A	Lysine (K)-specific demethylase 6A; UTX	7403	X	Xp11.2	yes		Renal; oesophageal SCC; MM			E; L	Rec	D; N; F; S				UTX; O15550; bA386N14_2; MGC141941; RP13-886N14_3; DKFZp686A03225; 7403; ENSG00000147050; UTX
KDR	Vascular endothelial growth factor receptor 2	3791	4	4q11-q12	yes		NSCLC; angiosarcoma			E	Dom	Mis				3791; VEGFR2; FLK1; CD309; VEGFR; P35968; KDR; ENSG00000128052
KIAA1549	Kiaa1549	57670	7	7q34	yes		Pilocytic astrocytoma			O	Dom	O	BRAF			57670; ENSG00000122778; KIAA1549

KIF5B	Kinesin family member 5B	3799	10	10p11.22	yes		NSCLC			E	Dom	T	RET; ALK			3799; ENSG00000170759; KINH; KNS; KNS1; UKHC; P33176; KIF5B
KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	3815	4	4q12	yes	yes	GIST; AML; TGCT; mastocytosis; mucosal melanoma	GIST; epithelioma	Familial gastrointestinal stromal tumour	L; M; O; E	Dom	Mis; O		yes	Piebald trait	3815; C-Kit; P10721; SCFR; CD117; ENSG00000157404; KIT
KLF4	Kruppel-like factor 4	9314	9	9q31	yes		Meningioma			O	Dom	Mis				KLF4; EZF; O43474; GKLF; ENSG00000136826; 9314
KLK2	Kallikrein-related peptidase 2	3817	19	19q13.41	yes		Prostate			E	Dom	T	ETV4			KLK2; P20151; KLK2A2; hK2; MGC12201; ENSG00000167751; 3817
KMT2D	Lysine (K)-specific methyltransferase 2D	8085	12	12q13.12	yes		Medulloblastoma; renal			O; E	Rec	N; F; Mis				KMT2D; ENSG00000167548; MLL2; 8085
KRAS	V-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog	3845	12	12p12.1	yes		Pancreatic; colorectal; lung; thyroid; AML; other tumour types			L; E; M; O	Dom	Mis				K-RAS2B; C-K-RAS; RASK2; KRAS1; K-RAS4B; K-RAS2A; K-RAS4A; KRAS2; KI-RAS; NS3; P01116; 3845; KRAS
KTN1	Kinectin 1 (kinesin receptor)	3895	14	14q22.1	yes		Papillary thyroid			E	Dom	T	RET			KTN1; Q86UP2; CG1; KIAA0004; ENSG00000126777; 3895
LAF4	Lymphoid nuclear protein related to AF4	3899	2	2q11.2-q12	yes		ALL; T-ALL			L	Dom	T	MLL; RUNX1			MLLT2-like; P51826; LAF4; ENSG00000144218; AFF3; 3899

LASP1	LIM and SH3 protein 1	3927	17	17q11-q21.3	yes		AML			L	Dom	T	MLL			3927; ENSG00000002834; Lasp-1; MLN50; Q14847; LASP1
LCK	Lymphocyte-specific protein tyrosine kinase	3932	1	1p35-p34.3	yes		T-ALL			L	Dom	T	TRB@			3932; YT16; pp58lck; p56lck; ENSG00000182866; P06239; LCK
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)	3936	13	13q14.1-q14.3	yes		NHL			L	Dom	T	BCL6			LCP1; CP64; LC64P; PLS2; FLJ26114; P13796; FLJ25423; L-PLASTIN; DKFZp781A23186; FLJ39956; ENSG00000136167; 3936
LCX	Leukemia-associated protein with a CXXC domain	80312	10	10q21	yes		AML			L	Dom	T	MLL			80312; KIAA1676; LCX; Q8NFU7; TET1; bA119F7_1; CXXC6; ENSG00000138336; CXXC6
LHFP	Lipoma HMGIC fusion partner	10186	13	13q12	yes		Lipoma			M	Dom	T	HMGA2			10186; MGC22429; ENSG00000183722; LHFP
LIFR	Leukemia inhibitory factor receptor	3977	5	5p13-p12	yes		Salivary adenoma			E	Dom	T	PLAG1			LIFR; SJS2; CD118; STWS; SWS; 3977; ENSG00000113594
LMO1	LIM domain only 1 (rhombotin 1) (RBTN1)	4004	11	11p15	yes	yes	T-ALL; neuroblastoma	Neuroblastoma		L	Dom	T; A	TRD@			P25800; RBTN1; TTG1; RHOM1; ENSG00000166407; LMO1; 4004
LMO2	LIM domain only 2 (rhombotin-like 1) (RBTN2)	4005	11	11p13	yes		T-ALL			L	Dom	T	TRD@			LMO2; RBTN2; RHOM2; RBTNL1; TTG2; P25791; ENSG00000135363; 4005

LPP	LIM domain containing preferred translocation partner in lipoma	4026	3	3q28	yes		Lipoma; leukaemia			L; M	Dom	T	HMGA2; MLL; C12orf9			4026; Q93052; ENSG00000145012; LPP
LRIG3	Leucine-rich repeats and immunoglobulin-like domains 3	121227	12	12q14.1	yes		NSCLC			E	Dom	T	ROS1			Q6UXM1; FLJ26573; KIAA3016; FLJ90440; ENSG00000139263; LRIG3; 121227
LYL1	Lymphoblastic leukemia derived sequence 1	4066	19	19p13.2-p13.1	yes		T-ALL			L	Dom	T	TRB@			LYL1; P12980; ENSG00000104903; 4066
MADH4	Homolog of Drosophila Mothers Against Decapentaplegic 4 gene	4089	18	18q21.1	yes	yes	Colorectal; pancreatic; small intestine	Gastrointestinal polyp	Juvenile polyposis	E	Rec	D; Mis; N; F				Q13485; JIP; DPC4; MADH4; ENSG00000141646; 4089; SMAD4
MAF	V-maf musculoaponeurotic fibrosarcoma oncogene homolog	4094	16	16q22-q23	yes		MM			L	Dom	T	IGH@			MAF; MGC71685; 4094; ENSG00000178573
MAFB	V-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	9935	20	20q11.2-q13.1	yes		MM			L	Dom	T	IGH@			9935; Q9Y5Q3; KRML; MGC43127; ENSG00000204103; MAFB
MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (lnc-RNA; non-protein coding)	378938	11	11q31.1	yes		Renal cell carcinoma (childhood epithelioid); lung			E	Dom	T	TFEB			MALAT1; Q9UHZ2; 378938; PRO1073

MALT1	Mucosa associated lymphoid tissue lymphoma translocation gene 1	10892	18	18q21	yes		MALT			L	Dom	T	BIRC3			MALT1; ENSG00000172175; 10892
MAML2	Mastermind-like 2 (Drosophila)	84441	11	11q22-q23	yes		Salivary gland mucoepidermoid			E	Dom	T	MECT1; CRTC3			MAM2; MAM3; DKFZp686N0150; KIAA1819; MLL-MAML2; Q8IZL2; MAM-3; ENSG00000184384; 84441; MAML2
MAP2K1	Mitogen-activated protein kinase kinase 1	5604	15	15q22.1-q22.33	yes		NSCLC; melanoma; colorectal			E	Dom	Mis			Cardiofaciocutaneous syndrome	5604; PRKMK1; MKK1; MEK1; Q02750; ENSG00000169032; MAP2K1; MAPKK1
MAP2K2	Mitogen-activated protein kinase kinase 2	5605	19	19p13.3	yes		NSCLC; melanoma			E	Dom	Mis			Cardiofaciocutaneous syndrome	MAP2K2; MEK2; PRKMK2; MAPKK2; MKK2; ENSG00000126934; P36507; 5605
MAP2K4	Mitogen-activated protein kinase kinase 4	6416	17	17p11.2	yes		Pancreatic; breast; colorectal			E	Rec	D; Mis; N				SERK1; MEK4; SEK1; JNKK; MAPKK4; PRKMK4; MKK4; JNKK1; ENSG00000065559; P45985; MAP2K4; 6416
MAX	Myc associated factor X	4149	14	14q23	yes	yes	Pheochromocytoma; endometrioid carcinoma; colon carcinoma	Pheochromocytoma		E; O	Rec	Mis; N; F				4149; MGC36767; MGC34679; orf1; MGC11225; P61244; MGC10775; ENSG00000125952; MGC18164; MAX

MDM2	Mdm2 p53 binding protein homolog	4193	12	12q15	yes		Sarcoma; glioma; colorectal; other tumour types			M; O; E; L	Dom	A				4193; HDM2; Q00987; hdm2; MGC71221; HDMX; ENSG00000135679; MDM2
MDM4	Mdm4 p53 binding protein homolog	4194	1	1q32	yes		Glioblastoma; bladder; retinoblastoma			M	Dom	A				MDM4; DKFZp781B1423; MGC132766; MRP1; MDMX; RP11-430C7_1; ENSG00000198625; 4194
MDS1	Myelodysplasia syndrome 1	2122	3	3q26	yes		MDS; AML			L	Dom	T	RUNX1			4197; MDS1-EVI1; Q13465; PRDM3; MDS1
MDS2	Myelodysplastic syndrome 2	259283	1	1p36	yes		MDS			L	Dom	T	ETV6			MDS2; Q8NDY4; ENSG00000197880; 259283
MECT1	Mucoepidermoid translocated 1	23373	19	19p13	yes		Salivary gland mucoepidermoid			E	Dom	T	MAML2			23373; Q6UUV9; FLJ14027; WAMTP1; MECT1; TORC1; KIAA0616; ENSG00000105662; CRTC1
MED12	Mediator complex subunit 12	9968	X	Xq13	yes		Uterine leiomyoma			M	Dom	M; S		Yes	Opitz-Kaveggia Syndrome	Q93074; MED12_ENST00000374080; 9968; ARC240; CAGH45; FGS1; HOPA; OKS; OPA1; TNRC11; TRAP230; KIAA0192
MEN1	Multiple endocrine neoplasia type 1 gene	4221	11	11q13	yes	yes	Parathyroid tumours; pancreatic neuroendocrine tumour	Parathyroid adenoma; pituitary adenoma; pancreatic islet cell; carcinoid	Multiple endocrine neoplasia type 1	E	Rec	D; Mis; N; F; S				MEN1; ENSG00000133895; 4221

MET	Met proto-oncogene (hepatocyte growth factor receptor)	4233	7	7q31	yes		Papillary renal; head-neck squamous cell	Papillary renal	Familial papillary renal cancer	E	Dom	Mis				4233; RCCP2; AUTS9; HGFR; P08581; ENSG00000105976; MET
MITF	Microphthalmia-associated transcription factor	4286	3	3p14.1	yes		Melanoma			E	Dom	A		yes	Waardenburg syndrome type 2; Tietz syndrome	WS2A; MITF; 4286; ENSG00000187098
MKL1	Megakaryoblastic leukemia (translocation) 1	57591	22	22q13	yes		Acute megakaryocytic leukaemia			L	Dom	T	RBM15			57591; BSAC; MAL; MRTF-A; Q969V6; ENSG00000196588; MKL1
MLF1	Myeloid leukemia factor 1	4291	3	3q25.1	yes		AML			L	Dom	T	NPM1			MLF1; P58340; ENSG00000178053; 4291
MLH1	E.coli mutl homolog gene	4292	3	3p21.3	yes	yes	Colorectal; endometrial; ovarian; CNS	Colorectal; endometrial; ovarian; CNS	Hereditary non-polyposis colorectal cancer; Turcot syndrome	E; O	Rec	D; Mis; N; F; S				FCC2; COCA2; HNPCC; MGC5172; P40692; HNPCC2; hMLH1; ENSG00000076242; 4292; MLH1

MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila)	4297	11	11q23	yes		AML; ALL			L	Dom	T; O	MLL; MLLT1; MLLT2; MLLT3; MLLT4; MLLT7; MLLT10; MLLT6; ELL; EPS15; AF1Q; CREBBP; SH3GL1; FNBP1; PNUTL1; MSF; GPHN; GMPS; SSH3BP1; ARHGEF12; GAS7; FOXO3A; LAF4; LCX; SEPT6; LPP; CBFA2T1; GRAF; EP300; PICALM; HEAB			TRX1; CXXC7; MLL1A; HRX; HTRX1; MLL/GAS7; ENSG00000118058; MLL; 4297; ALL-1
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3	58508	7	7q36.1	yes		Medulloblastoma			O	Rec	N				MLL3; 58508; ENSG00000055609

MLLT1	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 1 (ENL)	4298	19	19p13.3	yes		AL			L	Dom	T	MLL			Q03111; ENL; LTG19; YEATS1; ENSG00000130382; MLLT1; 4298
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 10 (AF10)	8028	10	10p12	yes		AL			L	Dom	T	MLL; PICALM; CDK6			8028; P55197; AF10; ENSG00000078403; MLLT10
MLLT2	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 2 (AF4)	4299	4	4q21	yes		AL			L	Dom	T	MLL			4299; MLLT2; PBM1; AF-4; P51825; ENSG00000172493; AFF1
MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 3 (AF9)	4300	9	9p22	yes		ALL			L	Dom	T	MLL			AF9; AF-9; YEATS3; P42568; ENSG00000171843; MLLT3; 4300

MLLT4	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 4 (AF6)	4301	6	6q27	yes		AL			L	Dom	T				
MLLT6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 6 (AF17)	4302	17	17q21	yes		AL			L	Dom	T	MLL			4302; P55198; AF17; ENSG00000108292; MLLT6
MLLT7	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog; Drosophila); translocated to; 7 (AFX1)	4303	X	Xq13.1	yes		AL			L	Dom	T	MLL			4303; P98177; MLLT7; AFX1; ENSG00000184481; MLLT7
MN1	Meningioma (disrupted in balanced translocation) 1	4330	22	22q13	yes		AML; meningioma			L; O	Dom	T	ETV6			Q10571; MN1; 4330; ENSG00000169184; dJ353E16_2; MGCR; MGCR1; MGCR1-PEN

MPL	Myeloproliferative leukemia virus oncogene; thrombopoietin receptor	4352	1	p34	yes	yes	MPN	MPN	Familial essential thrombocythemia	L	Dom	Mis		yes	congenital amegakaryocytic thrombocytopenia	P40238; TPOR; RP1-92O14_1; C-MPL; MPLV; CD110; ENSG00000117400; MPL; 4352
MSF	MLL septin-like fusion	10801	17	17q25	yes		AML*			L	Dom	T	MLL			NAPB; PNUTL4; SINT1; SeptD1; MSF; AF17q25; KIAA0991; MSF1; SEPT9; ENSG00000184640; 10801
MSH2	Muts homolog 2 (*E. Col* i)	4436	2	2p22-p21	yes	yes	Colorectal; endometrial; ovarian	Colorectal; endometrial; ovarian	Hereditary non-polyposis colorectal cancer	E	Rec	D; Mis; N; F; S				4436; COCA1; P43246; HNPCC1; FCC1; HNPCC; ENSG00000095002; MSH2
MSH6	Muts homolog 6 (*E. Coli*)	2956	2	2p16	yes	yes	Colorectal	Colorectal; endometrial; ovarian	Hereditary non-polyposis colorectal cancer	E	Rec	Mis; N; F; S				MSH6; GTBP; HNPCC5; HSAP; ENSG00000116062; 2956; P52701
MSI2	Musashi homolog 2 (Drosophila)	124540	17	17q23.2	yes		CML			L	Dom	T	HOXA9			MSI2; ENSG00000153944; 124540
MSN	Moesin	4478	X	Xq11.2-q12	yes		ALCL			L	Dom	T	ALK			MSN; P26038; ENSG00000147065; 4478
MTCP1	Mature T-cell proliferation 1	4515	X	Xq28	yes		T cell prolymphocytic leukaemia			L	Dom	T	TRA@			GS1-273L24_4; C6_1B; ENSG00000214827; 4515; MTCP1
MUC1	Mucin 1; transmembrane	4582	1	1q21	yes		B-NHL			L	Dom	T	IGH@			MUC1; PEM; H23AG; CD227; EMA; MAM6; PEMT; PUM; ENSG00000185499; 4582

MUTYH	Muty homolog (E. Coli)	4595	1	1p34.3-1p32.1		yes		Colorectal	Adenomatous polyposis coli	E	Rec	Mis				MUTYH; MYH; MYHbeta; MGC4416; hMYH; ENSG00000132781; 4595
MYB	V-myb myeloblastosis viral oncogene homolog	4602	6	6q22-23	yes		Adenoid cystic carcinoma			E	Dom	T	NFIB			MYB; c-myb_CDS; c-myb; Cmyb; efg; P10242; ENSG00000118513; 4602
MYC	V-myc myelocytomatosis viral oncogene homolog (avian)	4609	8	8q24.12-q24.13	yes		Burkitt lymphoma; amplified in other cancers; B-CLL			L; E	Dom	A; T	IGK@; BCL5; BCL7A ; BTG1; TRA@; IGH@			4609; c-Myc; ENSG00000136997; MYC
MYCL1	V-myc myelocytomatosis viral oncogene homolog 1; lung carcinoma derived (avian)	4610	1	1p34.3	yes		Small cell lung carcinoma			E	Dom	A				4610; LMYC; MYCL; ENSG00000116990; MYCL1
MYCN	V-myc myelocytomatosis viral related oncogene; neuroblastoma derived (avian)	4613	2	2p24.1	yes		Neuroblastoma			O	Dom	A				MYCN; N-myc; ODED; MODED; NMYC; ENSG00000134323; 4613
MYD88	Myeloid differentiation primary response gene (88)	4615	3	3p22	yes		ABC-DLBCL			L	Dom	Mis				Q99836; MYD88_ENST00000396334; 4615; MYD88D
MYH11	Myosin; heavy polypeptide 11; smooth muscle	4629	16	16p13.13-p13.12	yes		AML			L	Dom	T	CBFB			MYH11; ENSG00000133392; 4629

MYH9	Myosin; heavy polypeptide 9; non-muscle	4627	22	22q13.1	yes		ALCL			L	Dom	T	ALK	yes	Deafness; autosomal dominant 17; Epstein syndrome; Fechtner syndrome; May-Hegglin anomaly; Sebastian syndrome	4627; P35579; DFNA17; ENSG00000100345; MYH9
MYST4	MYST histone acetyltransferase (monocytic leukemia) 4 (MORF)	23522	10	10q22	yes		AML			L	Dom	T	CREBBP			23522; ENSG00000156650; DKFZp313G1618; FLJ90335; KIAA0383; MORF; MOZ2; qkf; querkopf; Q8WYB5; MYST4
NACA	Nascent-polypeptide-associated complex alpha polypeptide	4666	12	12q23-q24.1	yes		NHL			L	Dom	T	BCL6			4666; NACAP1; FKSG17; Q13765; NACA1; ENSG00000196531; NACA; HSD48; MGC117224
NBS1	Nijmegen breakage syndrome 1 (nibrin)	4683	8	8q21		yes		NHL; glioma; medulloblastoma; rhabdomyosarcoma	Nijmegen breakage syndrome	L; E; M; O	Rec	Mis; N; F				NBN; AT-V2; NBS1; MGC87362; AT-V1; NBS; FLJ10155; ATV; ENSG00000104320; 4683

NCOA1	Nuclear receptor coactivator 1	8648	2	2p23	yes		Alveolar rhabdomyosarcoma			M	Dom	T	PAX3			NCOA1; RIP160; F-SRC-1; MGC129720; MGC129719; NCoA-1; SRC1; ENSG00000084676; 8648
NCOA2	Nuclear receptor coactivator 2 (TIF2)	10499	8	8q13.1	yes		AML; chondrosarcoma			L	Dom	T	RUNXBP2; HEY1			10499; TIF2; GRIP1; MGC138808; NCoA-2; ENSG00000140396; NCOA2
NCOA4	Nuclear receptor coactivator 4 - PTC3 (ELE1)	8031	10	10q11.2	yes		Papillary thyroid			E	Dom	T	RET			8031; RP11-481A12_4; ARA70; DKFZp762E1112; RFG; Q13772; ELE1; PTC3; ENSG00000138293; NCOA4
NDRG1	N-myc downstream regulated 1	10397	8	8q24.3	yes		Prostate			E	Dom	T	ERG			NDRG1; NDR1; CAP43; NMSL; PROXY1; TDD5; DRG1; RTP; GC4; HMSNL; TARG1; CMT4D; RIT42; Q92597; ENSG00000104419; 10397
NF1	Neurofibromatosis type 1 gene	4763	17	17q12	yes	yes	Neurofibroma; glioma	Neurofibroma; glioma	Neurofibromatosis type 1	O	Rec	D; Mis; N; F; S; O				4763; NFNS; P21359; ENSG00000196712; NF1
NF2	Neurofibromatosis type 2 gene	4771	22	22q12.2	yes	yes	Meningioma; acoustic neuroma; renal	Meningioma; acoustic neuroma	Neurofibromatosis type 2	O	Rec	D; Mis; N; F; S; O				SCH; ACN; Merlin; P35240; ENSG00000186575; 4771; NF2; BANF
NFE2L2	Nuclear factor (erythroid-derived 2)-like 2 (NRF2)	4780	2	2q31	yes		NSCLC; HNSCC			E	Dom	Mis				4780; ENSG00000116044; NRF2; Q16236; NFE2L2

NFIB	Nuclear factor I/B	4781	9	9p24.1	yes		Adenoid cystic carcinoma; lipoma			E	Dom	T	MYB; HGMA2			4781; RP11-280O24_2; NFIB3; NFI-RED; NFIB2; ENSG00000147862; NFIB
NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	4791	10	10q24	yes		B-NHL			L	Dom	T	IGH@			LYT10; ENSG00000077150; NFKB2; 4791; LYT-10
NIN	Ninein (GSK3B interacting protein)	51199	14	14q24	yes		MPN			L	Dom	T	PDGFRB			51199; KIAA1565; ENSG00000100503; NIN
NKX2-1	NK2 homeobox 1	7080	14	14q13	yes		NSCLC			E	Dom	A				TTF-1; BCH; NK-2; NKX2_1; NKX2A; BHC; TTF1; TITF1; P43699; ENSG00000136352; TITF1; 7080; TEBP
NONO	Non-POU domain containing; octamer-binding	4841	X	Xq13.1	yes		Papillary renal			E	Dom	T	TFE3			4841; Q15233; P54; NMT55; P54NRB; NRB54; ENSG00000147140; NONO
NOTCH1	Notch homolog 1; translocation-associated (Drosophila) (TAN1)	4851	9	9q34.3	yes		T-ALL			L	Dom	T; Mis; O	TRB@			NOTCH1; hN1; ENSG00000148400; 4851; P46531; TAN1
NOTCH2	Notch homolog 2	4853	1	1p13-p11	yes		Marginal zone lymphoma; DLBCL			L	Dom	N; F; Mis				4853; Q04721; hN2; AGS2; ENSG00000134250; NOTCH2
NPM1	Nucleophosmin (nucleolar phosphoprotein B23; numatrin)	4869	5	5q35	yes		NHL; APL; AML			L	Dom	T; F	ALK; RARA; MLF1			NPM1; NPM; MGC104254; B23; ENSG00000181163; P06748; 4869

NR4A3	Nuclear receptor subfamily 4; group A; member 3 (NOR1)	8013	9	9q22	yes		Extraskeletal myxoid chondrosarcoma			M	Dom	T	EWSR1			NR4A3; MINOR; CSMF; NOR1; TEC; CHN; Q92570; ENSG00000119508; 8013
NRAS	Neuroblastoma RAS viral (v-ras) oncogene homolog	4893	1	1p13.2	yes		Melanoma; MM; AML; thyroid			L; E	Dom	Mis				N-ras; NRAS1; P01111; ENSG00000213281; 4893; NRAS
NSD1	Nuclear receptor binding SET domain protein 1	64324	5	5q35	yes		AML			L	Dom	T	NUP98	yes	Sotos Syndrome	64324; FLJ44628; STO; ARA267; DKFZp666C163; FLJ22263; Q96L73; ENSG00000165671; NSD1; SOTOS
NT5C2	5'-Nucleotidase; cytosolic II	22978	10	10q24.32	yes		Relapse ALL			L		Mis				22978; ENSG00000076685; cN-II; GMP; NT5B; PNT5; P49902; NT5C2
NTRK1	Neurotrophic tyrosine kinase; receptor; type 1	4914	1	1q21-q22	yes		Papillary thyroid			E	Dom	T	TPM3; TPR; TFG			DKFZp781I14186; ENSG00000198400; TRK; TRKA; p140-TrkA; MTC; TRK1; P04629; NTRK1; 4914
NTRK3	Neurotrophic tyrosine kinase; receptor; type 3	4916	15	15q25	yes		Congenital fibrosarcoma; secretory breast			E; M	Dom	T	ETV6			Q16288; TRKC; gp145(trkC); ENSG00000140538; 4916; NTRK3
NUMA1	Nuclear mitotic apparatus protein 1	4926	11	11q13	yes		APL			L	Dom	T	RARA			NUMA; Q14980; ENSG00000137497; 4926; NUMA1
NUP214	Nucleoporin 214 kDa (CAN)	8021	9	9q34.1	yes		AML; T-ALL			L	Dom	T	DEK; SET; ABL1			NUP214; ENSG00000126883; CAN; P35658; CAIN; N214; RP11-544A12_7; D9S46E; MGC104525; 8021

NUP98	Nucleoporin 98 kDa	4928	11	11p15	yes		AML			L	Dom	T	HOXA9; NSD1; WHSC1L1; DDX10; TOP1; HOXD13; PMX1; HOXA13; HOXD11; HOXA11; RAP1GDS1; HOXC11			NUP196; ENSG00000110713; ADIR2; 4928; NUP98
NUTM2A	NUT family member 2A	728118	10	10q23.2	yes		Endometrial stromal sarcoma			M	Dom	T	YWHAE			KIAA2020; NUTM2A; ENSG00000184923; FAM22A; 728118; Q8IVF1; Q5VT03
NUTM2B	NUT family member 2B	729262	10	10q22.3	yes		Endometrial stromal sarcoma			M	Dom	T	YWHAE			A6NNL0; NUTM2B; FAM22B
OLIG2	Oligodendrocyte lineage transcription factor 2 (BHLHB1)	10215	21	21q22.11	yes		T-ALL			L	Dom	T	TRA@			OLIG2; OLIGO2; PRKCBP2; RACK17; BHLHB1; ENSG00000205927; 10215
OMD	Osteomodulin	4958	9	9q22.31	yes		Aneurysmal bone cyst			M	Dom	T	USP6			OMD; osteoadherin; SLRR2C; Q99983; ENSG00000127083; 4958
P2RY8	Purinergic receptor P2Y; G-protein coupled; 8	286530	X; Y	Xp22.3; Yp11.3	yes		B-ALL; Down syndrome associated ALL			L	Dom	T	CRLF2			286530; RP11-261P4_4; Q86VZ1; P2Y8; MGC50878; ENSG00000182162; P2RY8

PAFAH1B2	Platelet-activating factor acetylhydrolase; isoform Ib; beta subunit 30 kDa	5049	11	11q23	yes		MLCLS			L	Dom	T	IGH@			5049; P68402; ENSG00000168092; PAFAH1B2
PALB2	Partner and localizer of BRCA2	79728	16	16p12.1		yes		Wilms tumour; medulloblastoma; AML ; breast	Fanconi anaemia N; breast cancer susceptibility	L; O; E	Rec	F; N; Mis				79728; ENSG00000083093; PALB2
PAX3	Paired box gene 3	5077	2	2q35	yes		Alveolar rhabdomyosarcoma			M	Dom	T	FOXO1A; NCOA1	yes	Waardenburg syndrome; craniofacial-deafness-hand syndrome	5077; MGC120382; MGC120381; MGC134778; MGC120384; WS1; P23760; HUP2; MGC120383; CDHS; ENSG00000135903; PAX3
PAX5	Paired box gene 5 (B-cell lineage specific activator protein)	5079	9	9p13	yes		NHL; ALL; B-ALL			L	Dom	T; Mis; D; F; S	IGH@; ETV6; PML; FOXP1; ZNF521; ELN			PAX5; Q02548; BSAP; ENSG00000196092; 5079
PAX7	Paired box gene 7	5081	1	1p36.2-p36.12	yes		Alveolar rhabdomyosarcoma			M	Dom	T	FOXO1A			PAX7; PAX7B; HUP1; P23759; ENSG00000009709; 5081
PAX8	Paired box gene 8	7849	2	2q12-q14	yes		Follicular thyroid			E	Dom	T	PPARG	yes	Thyroid dysgenesis	7849; ENSG00000125618; PAX8
PBRM1	Polybromo 1	55193	3	3p21	yes		Clear cell renal carcinoma; breast			E	Rec	Mis; N; F; S; D; O				55193; BAF180; MGC156155; MGC156156; PB1; PBRM1
PBX1	Pre-B-cell leukemia transcription factor 1	5087	1	1q23	yes		Pre B-ALL; myoepithelioma			L; M	Dom	T	TCF3; EWSR1			PBX1; P40424; 5087

PCM1	Pericentriolar material 1 (PTC4)	5108	8	8p22-p21.3	yes		Papillary thyroid; CML; MPN			E; L	Dom	T	RET; JAK2			Q15154; PCM1; 5108; ENSG00000078674; PTC4
PCSK7	Proprotein convertase subtilisin/kexin type 7	9159	11	11q23.3	yes		MLCLS			L	Dom	T	IGH@			9159; LPC; Q16549; PC7; SPC7; PC8; ENSG00000160613; PCSK7
PDE4DIP	Phosphodiesterase 4D interacting protein (myomegalin)	9659	1	1q12	yes		MPN			L	Dom	T	PDGFRB			9659; ENSG00000178104; PDE4DIP
PDGFB	Platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	5155	22	22q12.3-q13.1	yes		DFSP			M	Dom	T	COL1A1			5155; SIS; SSV; c-sis; P01127; PDGF2; FLJ12858; PDGFB; ENSG00000100311
PDGFRA	Platelet-derived growth factor; a-receptor	5156	4	4q11-q13	yes		GIST; idiopathic hypereosinophilic syndrome; paediatric glioblastoma			L; M; O	Dom	Mis; O; T	FIP1L1			PDGFRA; MGC74795; P16234; CD140a; Rhe-PDGFRA; CD140A; PDGFR2; ENSG00000134853; 5156
PDGFRB	Platelet-derived growth factor receptor; beta polypeptide	5159	5	5q31-q32	yes		MPN; AML; CMML; CML			L	Dom	T	ETV6; TRIP11; HIP1; RAB5EP; H4; NIN; HCMOGT-1; PDE4DIP			5159; JTK12; CD140b; PDGFR; CD140B; PDGFR1; PDGF-R-beta; ENSG00000113721; P09619; PDGFRB
PER1	Period homolog 1 (Drosophila)	5187	17	17p13.1-17p12	yes		AML; CMML			L	Dom	T	ETV6			5187; O15534; RIGUI; PER; ENSG00000179094; PER1

PHF6	PHD finger protein 6	84295	X	Xq26.3	yes		ETP ALL			L	Rec	F; N; Splice; Mis				84295; BORJ; MGC14797; ENSG00000156531; PHF6
PHOX2B	Paired-like homeobox 2b	8929	4	4p12	yes	yes	Neuroblastoma	Neuroblastoma	Familial neuroblastoma	O	Rec	Mis; F		yes	congenital central hypoventilation syndrome	8929; PHOX2B
PICALM	Phosphatidylinositol binding clathrin assembly protein (CALM)	8301	11	11q14	yes		TALL; AML;			L	Dom	T	MLLT10; MLL			PICALM; CLTH; Q13492; CALM; ENSG00000073921; 8301
PIK3CA	Phosphoinositide-3-kinase; catalytic; alpha polypeptide	5290	3	3q26.3	yes		Colorectal; gastric; glioblastoma; breast			E; O	Dom	Mis				PIK3CA; MGC142161; p110-alpha; PI3K; MGC142163; ENSG00000121879; P42336; 5290
PIK3R1	Phosphoinositide-3-kinase; regulatory subunit 1 (alpha)	5295	5	5q13.1	yes		Glioblastoma; ovarian; colorectal			E; O	Rec	Mis; F; O				p85-ALPHA; P27986; ENSG00000145675; PIK3R1; 5295; GRB1
PIM1	Pim-1 oncogene	5292	6	6p21.2	yes		NHL			L	Dom	T	BCL6			5292; PIM; P11309; PIM1; ENSG00000137193
PLAG1	Pleiomorphic adenoma gene 1	5324	8	8q12	yes		Salivary adenoma			E	Dom	T	TCEA1; LIFR; CTNNB1; CHCHD7			PLAG1; ENSG00000181690; 5324
PML	Promyelocytic leukemia	5371	15	15q22	yes		APL; ALL			L	Dom	T	RARA; PAX5			PML; TRIM19; RNF71; MYL; ENSG00000140464; 5371; PP8675

PMS1	PMS1 postmeiotic segregation increased 1 (*S. Cerevisiae*)	5378	2	2q31-q33		yes		Colorectal; endometrial; ovarian	Hereditary non-polyposis colorectal cancer	E	Rec	Mis; N				DKFZp781M0253; hPMS1; HNPCC3; PMSL1; ENSG00000064933; PMS1; 5378
PMS2	PMS2 postmeiotic segregation increased 2 (*S. Cerevisiae*)	5395	7	7p22		yes		Colorectal; endometrial; ovarian; medulloblastoma; glioma	Hereditary non-polyposis colorectal cancer; Turcot syndrome	E	Rec	Mis; N; F				PMS2; HNPCC4; PMS2CL; PMSL2; H_DJ0042M02_9; ENSG00000122512; 5395
PMX1	Paired mesoderm homeo box 1	5396	1	1q24	yes		AML			L	Dom	T	NUP98			5396; ENSG00000116132; PRRX1
PNUTL1	Peanut-like 1 (Drosophila)	5413	22	22q11.2	yes		AML			L	Dom	T	MLL			5413; HCDCREL-1; H5; PNUTL1; Q99719; ENSG00000184702; SEPT5
POT1	Protection of telomeres 1	25913	7	7q31.33	yes		CLL			L		Mis; N				DKFZP586D211; DKFZp586D211; hPot1; ENSG00000128513; 25913; POT1
POU2AF1	POU domain; class 2; associating factor 1 (OBF1)	5450	11	11q23.1	yes		NHL			L	Dom	T	BCL6			5450; OBF1; OBF-1; Q16633; OCAB; BOB1; ENSG00000110777; POU2AF1
POU5F1	POU domain; class 5; transcription factor 1	5460	6	6p21.31	yes		Sarcoma			M	Dom	T	EWSR1			OTF3C; MGC22487; OTF3; OCT3; OCT4; Oct4; OTF3P1; POU5F1P1; ENSG00000230336; POU5F1; 5460; OTF4

PPARG	Peroxisome proliferative activated receptor; gamma	5468	3	3p25	yes		Follicular thyroid			E	Dom	T	PAX8	yes	Insulin resistance; lipodystrophy; familial partial L;diabetes mellitus; insulin-resistantI; with acanthosis nigricans and hypertension	HUMPPARG; PPARG1; NR1C3; PPARG2; ENSG00000132170; 5468; PPARG
PPP2R1A	Protein phosphatase 2; regulatory subunit A; alpha	5518	19	19q13.41	yes		Clear cell ovarian carcinoma			E	Dom?	Mis				MGC786; PR65A; P30153; ENSG00000105568; PPP2R1A; 5518
PRCC	Papillary renal cell carcinoma (translocation-associated)	5546	1	1q21.1	yes		Papillary renal			E	Dom	T	TFE3			Q92733; PRCC; 5546; ENSG00000143294; MGC17178; MGC4723; RCCP1; TPRC
PRDM1	PR domain containing 1; with ZNF domain	639	6	6q21	yes		DLBCL			L	Rec	D; N; Mis; F; S				PRDM1; O75626; BLIMP1; MGC118923; RP1-134E15_1; MGC118922; MGC118924; PRDI-BF1; MGC118925; ENSG00000057657; 639
PRDM16	PR domain containing 16	63976	1	1p36.23-p33	yes		MDS; AML			L	Dom	T	EVI1			KIAA1675; Q9HAZ2; PFM13; MEL1; ENSG00000142611; 63976; PRDM16

PRF1	Perforin 1 (pore forming protein)	5551	10	10q22		yes		Various leukaemia; lymphoma		L	Rec	M			Type 2 familial hemophagocytic lymphohistiocytosis	P14222; PRF1; 5551; ENSG00000180644; FLH2; HPLH2; MGC65093; P1; PFP
PRKAR1A	Protein kinase; camp-dependent; regulatory; type I; alpha (tissue specific extinguisher 1)	5573	17	17q23-q24	yes	yes	Papillary thyroid	Myxoma; endocrine; papillary thyroid	Carney complex	E; M	Dom; Rec	T; Mis; N; F; S	RET			PPNAD1; CAR; CNC; TSE1; MGC17251; PKR1; CNC1; P10644; PRKAR1; PRKAR1A; ENSG00000108946; 5573; DKFZp779L0468
PSIP1	PC4 and SFRS1 interacting protein 1 (LEDGF)	11168	9	9p22.3	yes		AML			L	Dom	T	NUP98			PSIP1; PSIP2; ENSG00000164985; 11168
PTCH	Homolog of Drosophila Patched gene	5727	9	9q22.3	yes	yes	Skin basal cell; medulloblastoma	Skin basal cell; medulloblastoma	Nevoid basal cell carcinoma syndrome	E; M	Rec	Mis; N; F; S				Q13635; RP11-435O5_3; FLJ42602; PTCH1; ENSG00000185920; PTC; PTC1; BCNS; NBCCS; FLJ26746; HPE7; PTCH; 5727; PTCH
PTEN	Phosphatase and tensin homolog gene	5728	10	10q23.3	yes	yes	Glioma; prostate; endometrial	Harmartoma; glioma; prostate; endometrial	Cowden syndrome; Bannayan-Riley-Ruvalcaba syndrome	L; E; M; O	Rec	D; Mis; N; F; S				P60484; MMAC1; ENSG00000171862; BZS; PTEN1; TEP1; MGC11227; PTEN; 5728; MHAM

PTPN11	Protein tyrosine phosphatase; non-receptor type 11	5781	12	12q24.1	yes		JMML; AML; MDS			L	Dom	Mis		yes	Noonan Syndrome	SH-PTP2; PTP2C; NS1; SH-PTP3; PTP-1D; BPTP3; SHP-2; MGC14433; SHP2; ENSG00000179295; PTPN11; 5781; Q06124; CFC
PTPRC	Protein tyrosine phosphatase; receptor type; C	5788	1	1q31-q32	yes		T-ALL			L						PTPRC; CD45; LY5; B220; GP180; T200; ENSG00000081237; 5788; LCA
RAB5EP	Rabaptin; RAB gtpase binding effector protein 1 (RABPT5)	9135	17	17p13	yes		CMML			L	Dom	T	PDGFRB			9135; Q15276; rabaptin-5; RABPT5; neurocrescin; RAB5EP; ENSG00000029725; RABEP1
RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family; small GTP binding protein Rac1)	5879	7	7p22	yes		Melanoma; carcinoma			E	Dom	Mis; F				MIG5; ENSG00000136238; TC-25; p21-Rac1; P63000; MGC111543; RAC1; 5879
RAD21	RAD21 homolog (S. Pombe)	5885	8	q24.11	yes		AML; endometrium; colorectal; lung			L; E	Rec	Mis; N; F			Cornelia de Lange syndrome-4	RAD21; HR21; SCC1; FLJ40596; HRAD21; NXP1; O60216; MCD1; hHR21; KIAA0078; ENSG00000164754; 5885; FLJ25655
RAD51L1	RAD51-like 1 (S. Cerevisiae) (RAD51B)	5890	14	14q23-q24.2	yes		Lipoma; uterine leiomyoma			M	Dom	T	HMGA2			RAD51L1; ENSG00000182185; MGC34245; RAD51B; REC2; R51H2; hREC2; O15315; 5890; RAD51L1

RAF1	V-raf-1 murine leukemia viral oncogene homolog 1	5894	3	3p25	yes		Pilocytic astrocytoma			M	Dom	T	SRGAP3			RAF1; Raf-1; CRAF; c-Raf; ENSG00000132155; P04049; 5894
RALGDS	Ral guanine nucleotide dissociation stimulator	5900	9	9q34.3	yes		PMBL; Hodgkin lymphoma;			L	Dom	T	CIITA			5900; FLJ20922; Q12967; RGF; RalGEF; RALGDS; ENSG00000160271
RANBP17	RAN binding protein 17	64901	5	5q34	yes		ALL			L	Dom	T				
RAP1GDS1	RAP1; GTP-GDP dissociation stimulator 1	5910	4	4q21-q25	yes		T-ALL			L	Dom	T	NUP98			MGC118861; P52306; ENSG00000138698; GDS1; MGC118859; 5910; RAP1GDS1
RARA	Retinoic acid receptor; alpha	5914	17	17q12	yes		APL			L	Dom	T	PML; ZNF145; TIF1; NUMA1; NPM1			RARA; RAR; NR1B1; ENSG00000131759; 5914
RB1	Retinoblastoma gene	5925	13	13q14	yes	yes	Retinoblastoma; sarcoma; breast; small cell lung carcinoma	Retinoblastoma; sarcoma; breast; small cell lung carcinoma	familial retinoblastoma	L; E; M; O	Rec	D; Mis; N; F; S				ENSG00000139687; OSRC; P06400; RB; 5925; RB1
RBM15	RNA binding motif protein 15	64783	1	1p13	yes		Acute megakaryocytic leukaemia			L	Dom	T	MKL1			RBM15; Q96T37; OTT1; OTT; ENSG00000162775; 64783
RECQL4	Recq protein-like 4	9401	8	8q24.3		yes		Osteosarcoma; skin basal cell; skin sqamous cell	Rothmund-Thompson syndrome	M	Rec	N; F; S				RECQL4; RecQ4; RTS; RECQ4; ENSG00000160957; 9401

REL	V-rel reticuloendotheliosis viral oncogene homolog (avian)	5966	2	2p13-p12	yes		Hodgkin lymphoma			L	Dom	A				REL; I-Rel; C-Rel; ENSG00000162924; 5966
RET	Ret proto-oncogene	5979	10	10q11.2	yes	yes	Medullary thyroid; papillary thyroid; pheochromocytoma; NSCLC	Medullary thyroid; papillary thyroid; pheochromocytoma	multiple endocrine neoplasia 2A/2B	E; O	Dom	T; Mis; N; F	H4; PRKAR1A; NCOA4; PCM1; GOLGA5; TRIM33; KTN1; TRIM27; HOOK3; KIF5B; CCDC6	yes	Hirschsprung disease	RET-ELE1; CDHF12; RET51; MEN2B; PTC; HSCR1; MEN2A; MTC1; ENSG00000165731; P07949; RET; 5979
RNF43	Ring finger protein 43	54894	17	q23.2	yes		Cholangiocarcinoma; ovary; pancreas			E	Rec	Mis; N; F; S				54894; DKFZp781H02126; DKFZp781H0392; FLJ20315; MGC125630; RNF124; URCC; Q68DV7; RNF43
ROS1	V-ros UR2 sarcoma virus oncogene homolog 1 (avian)	6098	6	6q22	yes		Glioblastoma; NSCLC			O; E	Dom	T	GOPC; SDC4; SLC34A2; EZR; LRIG3			6098; ROS; RP1-179P9_1; MCF3; P08922; ENSG00000047936; ROS1
RPL10	Ribosomal protein L10	6134	X	Xq28	yes		T-ALL			L	Dom	Mis				6134; XX-FW83563B9_1; FLJ23544; QM; P27635; NOV; DKFZp686J1851; DXS648E; DXS648; FLJ27072; ENSG00000147403; RPL10
RPL22	Ribosomal protein L22 (EAP)	6146	1	1p36.31	yes		AML; CML			L	Dom	T	RUNX1			6146; EAP; RPL22

RPL5	Ribososomal protein L5	6125	1	1p22.1	yes		T-ALL			L	Dom	Mis; N; F		yes	Diamond-Blackfan anaemia	6125; RPL5; ENSG00000122406; MGC117339; P46777; MSTP030
RPN1	Ribophorin I	6184	3	3q21.3-q25.2	yes		AML			L	Dom	T	EVI1			6184; P04843; OST1; ENSG00000163902; RPN1
RUNDC2A	RUN domain containing 2A	84127	16	16p13.13	yes		PMBL; Hodgkin lymphoma			L	Dom	T	CIITA			84127; ENSG00000140660; FLJ12363; Q9HA26; RUNDC2A
RUNX1	Runt-related transcription factor 1 (AML1)	861	21	21q22.3	yes		AML; preB-ALL; T-ALL			L	Dom	T	RPL22; MDS1; EVI1; CBFA2T3; CBFA2T1; ETV6; LAF4			861; PEBP2A2; AMLCR1; CBFA2; AML1; Q01196; ENSG00000159216; RUNX1
RUNXBP2	Runt-related transcription factor binding protein 2 (MOZ/ZNF220)	7994	8	8p11	yes		AML			L	Dom	T	CREBBP; NCOA2; EP300			ZNF220; Q92794; MOZ; RUNXBP2; ENSG00000083168; MYST3; 7994
SBDS	Shwachman-Bodian-Diamond syndrome protein	51119	7	7q11		yes		AML; MDS	Schwachman-Diamond syndrome	L	Rec	Gene Conversion				SBDS; SDS; SWDS; Q9Y3A5; CGI-97; FLJ10917; ENSG00000126524; 51119
SDC4	Syndecan 4	6385	20	20q12	yes		NSCLC			E	Dom	T	ROS1			6385; ENSG00000124145; MGC22217; SYND4; P31431; SDC4
SDH5	Chromosome 11 open reading frame 79	54949	11	11q12.2		yes		Paraganglioma	familial paraganglioma	M	Rec	M				C11orf79; C11orf79; 54949; ENSG00000167985; FLJ20487

SDHB	Succinate dehydrogenase complex; subunit B; iron sulfur (Ip)	6390	1	1p36.1-p35		yes		Paraganglioma ; pheochromocytoma	familial paragangli oma	O	Rec	Mis; N; F				SDH1; PGL4; IP; SDH; SDHIP; ENSG00000117118; 6390; SDHB
SDHC	Succinate dehydrogenase complex; subunit C; integral membrane protein; 15 kDa	6391	1	1q21		yes		Paraganglioma ; pheochromocytoma	familial paragangli oma	O	Rec	Mis; N; F				SDH3; CYBL; QPS1; PGL3; ENSG00000143252; 6391; SDHC; CYB560
SDHD	Succinate dehydrogenase complex; subunit D; integral membrane protein	6392	11	11q23		yes		Paraganglioma ; pheochromocytoma	familial paragangli oma	O	Rec	Mis; N; F; S				6392; PGL1; O14521; CBT1; SDH4; PGL; ENSG00000204370; SDHD
SEPT6	Septin 6	23157	X	Xq24	yes		AML			L	Dom	T	MLL			SEPT6; RP5-876A24_2; KIAA0128; Q14141; ENSG00000125354; 23157; SEPT2; MGC16619; SEP2; MGC20339
SET	SET translocation	6418	9	9q34	yes		AML			L	Dom	T	NUP214			6418; I2PP2A; 2PP2A; IGAAD; PHAPII; TAF-IBETA; ENSG00000119335; SET
SETBP1	SET binding protein 1	26040	18	18q21.1	yes	yes	Atypical CML; sAML; MDS/MPN-U; CMML; JMML	Neuroepithelial tumours	Schinzel-Giedion syndrome	L	Dom	Mis	NUP98			

SETD2	SET domain containing 2	29072	3	3p21.31	yes		Clear cell renal carcinoma			E	Rec	N; F; S; Mis				SETD2; ENSG00000181555; 29072
SF3B1	Splicing factor 3b; subunit 1; 155kda	23451	2	2q33.1	yes		Myelodysplastic syndrome			L	Dom	Mis				SF3B1; ENSG00000115524; PRPF10; SAP155; SF3b155; 23451; PRP10; O75533
SFPQ	Splicing factor proline/glutamine rich(polypyrimidine tract binding protein associated)	6421	1	1p34.3	yes		Papillary renal			E	Dom	T	TFE3			6421; PSF; P23246; ENSG00000116560; SFPQ
SFRS3	Splicing factor; arginine/serine-rich 3	6428	6	6p21	yes		Follicular lymphoma			L	Dom	T	BCL6			SFRS3; SRp20; ENSG00000112081; P84103; 6428; SFRS3
SH2B3	SH2B adaptor protein 3	10019	12	12q24.12	yes		MPN; sAML; erythrocytosis; B-ALL			L	Rec?	Mis; F; N			Coeliac disease type 13; diabetes mellitus; insulin-dependent;	10019; LNK; Q9UQQ2; ENSG00000111252; SH2B3
SH3GL1	SH3-domain GRB2-like 1 (EEN)	6455	19	19p13.3	yes		AL			L	Dom	T	MLL			SH3GL1; Q99961; SH3P8; CNSA1; EEN; SH3D2B; ENSG00000141985; 6455
SIL	TAL1 (SCL) interrupting locus	6491	1	1p32	yes		T-ALL			L	Dom	T	TAL1			6491; SIL; Q15468; ENSG00000123473; STIL

SLC34A2	Solute carrier family 34 (sodium phosphate); member 2	10568	4	4p15.2	yes		NSCLC			E	Dom	T	ROS1			O95436; SLC34A2; 10568; ENSG00000157765; FLJ90534; NAPI-3B; NAPI-IIb; NPTIIb
SLC45A3	Solute carrier family 45; member 3	85414	1	1q32	yes		Prostate			E	Dom	T	ETV1; ETV5; ELK4; ERG			85414; IPCA-6; IPCA6; PCANAP6; PRST; Q96JT2; ENSG00000158715; SLC45A3
SMARCA4	SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily a; member 4	6597	19	19p13.2	yes		NSCLC; SCCOHT			E	Rec	F; N; Mis; S				6597; hSNF2b; ENSG00000127616; BAF190; SNF2-BETA; SNF2LB; FLJ39786; SWI2; P51532; SMARCA4; SNF2; SNF2L4; BRG1
SMARCB1	SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily b; member 1	6598	22	22q11	yes	yes	Malignant rhabdoid	Malignant rhabdoid	rhabdoid predisposition syndrome	M	Rec	D; N; F; S				6598; Ini1; Sfh1p; Q12824; INI1; SNF5; hSNFS; BAF47; RDT; SNF5L1; Snr1; ENSG00000099956; SMARCB1
SMARCE1	SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily e; member 1	6605	17	17q21.2		yes		Meningioma		O						6605; ENSG00000073584; Q969G3; BAF57; SMARCE1
SMO	Smoothened homolog (Drosophila)	6608	7	7q31-q32	yes		Skin basal cell			E	Dom	Mis				SMO; Q99835; Gx; SMOH; NP_005622; ENSG00000128602; 6608

SOCS1	Suppressor of cytokine signaling 1	8651	16	16p13.13	yes		Hodgkin lymphoma; PMBL			L	Rec	F; O				SOCS1; O15524; TIP3; CIS1; CISH1; JAB; Cish1; SSI1; SSI-1; SOCS-1; ENSG00000185338; 8651
SOX2	SRY (sex determining region Y)-box 2	6657	3	3q26.3-q27	yes		NSCLC; oesophageal squamous carcinoma			E	Dom	A		yes	MICROPHTHALMIA AND ESOPHAGEAL ATRESIA SYNDROME	P48431; MGC2413; ANOP3; ENSG00000181449; SOX2; 6657; MCOPS3
SRGAP3	SLIT-ROBO Rho gtpase activating protein 3	9901	3	3p25.3	yes		Pilocytic astrocytoma			M	Dom	T	RAF1			SRGAP3; MEGAP; WRP; KIAA0411; SRGAP2; ARHGAP14; ENSG00000196220; 9901
SRSF2	Serine/arginine-rich splicing factor 2	6427	17	17q25	yes		MDS; CLL			L	Dom	Mis				6427; Q01130; SFRS2; SFRS2
SS18	Synovial sarcoma translocation; chromosome 18	6760	18	18q11.2	yes		Synovial sarcoma			M	Dom	T	SSX1; SSX2			Q15532; SYT; SSXT; ENSG00000141380; 6760; SS18
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	26039	20	20q13.3	yes		Synovial sarcoma			M	Dom	T	SSX1			26039; KIAA0693; O75177; ENSG00000184402; SS18L1
SSX1	Synovial sarcoma; X breakpoint 1	6756	X	Xp11.23-p11.22	yes		Synovial sarcoma			M	Dom	T	SS18			6756; MGC5162; Q16384; MGC150425; SSRC; RP11-552E4_1; ENSG00000126752; SSX1

SSX2	Synovial sarcoma; X breakpoint 2	6757	X	Xp11.23-p11.22	yes		Synovial sarcoma			M	Dom	T	SS18			SSX2; HD21; RP11-552J9_2; MGC119055; MGC15364; MGC3884; HOM-MEL-40; SSX; 6757; ENSG00000157950
SSX4	Synovial sarcoma; X breakpoint 4	6759	X	Xp11.23	yes		Synovial sarcoma			M	Dom	T	SS18			6759; MGC119056; MGC12411; O60224; ENSG00000204645; SSX4
STAG2	Stromal antigen 2	10735	X	q25	yes		Bladder carcinoma; glioblastoma; melanoma; Ewing's sarcoma; myeloid neoplasms			E; L; M; O	Rec	Mis; N; F; S				SA2; RP11-517O1_1; bA517O1_1; DKFZp686P168; FLJ25871; SA-2; ENSG00000101972; STAG2; 10735; DKFZp781H1753
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	6774	17	17q21.31	yes		T-cell large granular lymphocytic leukaemia			L	Dom	Mis; O				6774; FLJ20882; MGC16063; P40763; APRF; STAT3; ENSG00000168610
STAT5B	Signal transducer and activator of transcription 5B	6777	17	17q11.2	yes		Large granular lymphocytic leukaemia; skin basal cell; APL			L; E	Dom	Mis; O	RARA			6777; STAT5; P51692; ENSG00000173757; STAT5B
STK11	Serine/threonine kinase 11 gene (LKB1)	6794	19	19p13.3	yes	yes	NSCLC; pancreatic	Jejunal hamartoma; ovarian; testicular; pancreatic	Peutz-Jeghers syndrome	E; M; O	Rec	D; Mis; N; F; S				6794; LKB1; PJS; Q15831; ENSG00000118046; STK11

STL	Six-twelve leukemia gene	7955	6	6q23	yes		B-ALL			L	Dom	T	ETV6			
SUFU	Suppressor of fused homolog (Drosophila)	51684	10	10q24.32	yes	yes	Medulloblastoma	Medulloblastoma	medulloblastoma predisposition	O	Rec	D; F; S				51684; RP11-47A8_1; SUFUH; Q9UMX1; SUFUXL; PRO1280; ENSG00000121410; SUFU
SUZ12	Suppressor of zeste 12 homolog (Drosophila)	23512	17	17q11.2	yes		Endometrial stromal tumour			M	Dom	T	JAZF1			23512; CHET9; JJAZ1; KIAA0160; ENSG00000178691; Q15022; SUZ12
SYK	Spleen tyrosine kinase	6850	9	9q22	yes		MDS; peripheral T-cell lymphoma			L	Dom	T	ETV6; ITK			6850; P43405; ENSG00000165025; SYK
TAF15	TAF15 RNA polymerase II; TATA box binding protein (TBP)-associated factor; 68kda	8148	17	17q11.1-q11.2	yes		Extraskeletal myxoid chondrosarcoma; ALL			L; M	Dom	T	TEC; CHN1; ZNF384			TAF15; hTAFII68; Q92804; Npl3; RBP56; TAF2N; ENSG00000172660; 8148
TAL1	T-cell acute lymphocytic leukemia 1 (SCL)	6886	1	1p32	yes		Lymphoblastic leukaemia/biphasic			L	Dom	T	TRD@; SIL			TAL1; TCL5; tal-1; P17542; SCL; ENSG00000162367; 6886
TAL2	T-cell acute lymphocytic leukemia 2	6887	9	9q31	yes		T-ALL			L	Dom	T	TRB@			TAL2; Q16559; 6887
TBL1XR1	Transducin (beta)-like 1 X-linked receptor 1	79718	3	3q26.32	yes		Splenic marginal zone lymphoma			L		F; Mis				79718; C21; DC42; FLJ12894; IRA1; TBLR1; TBL1XR1

TCEA1	Transcription elongation factor A (SII); 1	6917	8	8q11.2	yes		Salivary adenoma			E	Dom	T	PLAG1			6917; ENSG00000187735; TCEA1
TCF1	Transcription factor 1; hepatic (HNF1)	6927	12	12q24.2	yes	yes	Hepatic adenoma; hepatocellular	Hepatic adenoma; hepatocellular carcinoma	familial hepatic adenoma	E	Rec	Mis; F		yes	Maturity-onset diabetes of the young; TYPE III	MODY3; HNF1; LFB1; P20823; HNF1A; TCF1; ENSG00000135100; TCF1; 6927
TCF12	Transcription factor 12 (HTF4; helix-loop-helix transcription factors 4)	6938	15	15q21	yes		Extraskeletal myxoid chondrosarcoma			M	Dom	T	TEC			6938; HEB; HTF4; HsT17266; ENSG00000140262; TCF12
TCF3	Transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	6929	19	19p13.3	yes		Pre B-ALL			L	Dom	T	PBX1; HLF; TFPT			6929; E2A; ITF1; MGC129647; MGC129648; P15923; ENSG00000071564; TCF3
TCF7L2	Transcription factor 7-like 2	6934	10	10q25.3	yes		Colorectal			E	Dom	T	VTI1A			6934; ENSG00000148737; TCF-4; TCF4; TCF7L2
TCL1A	T-cell leukemia/lymphoma 1A	8115	14	14q32.1	yes		T-CLL			L	Dom	T	TRA@			8115; P56279; TCL1; ENSG00000100721; TCL1A
TCL6	T-cell leukemia/lymphoma 6	27004	14	14q32.1	yes		T-ALL			L	Dom	T	TRA@			TCL6; P56847; ENSG00000187621; 27004

TERT	Telomerase reverse transcriptase	7015	5	5p15.33	yes	yes	Melanoma; glioblastoma; hepatocellular carcinoma; bladder; skin basal cell; skin squamous cell; mesothelioma; medulloblastoma; other tumour types	Melanoma		E; O	Dom	Promoter Mis		yes	Dyskeratosis congenita; Telomere-related pulmonary fibrosis and/or bone marrow failure 1	TERT; EST2; TP2; TCS1; hEST2; O14746; O14783; Q2XS35; Q8N6C3; Q8NG46; 7015; TRT; TERT
TET2	Tet oncogene family member 2	54790	4	4q24	yes		MDS			L	Rec	Mis N; F				Q6N021; TET2-202; 54790; ENSG00000168769; FLJ20032; KIAA1546; MGC125715
TFE3	Transcription factor binding to IGHM enhancer 3	7030	X	Xp11.22	yes		Papillary renal; alveolar soft part sarcoma; renal			E	Dom	T	SFPQ; ASPSCR1; PRCC; NONO; CLTC			7030; RCCP2; TFEA; ENSG00000068323; TFE3
TFEB	Transcription factor EB	7942	6	6p21	yes		Renal cell carcinoma (childhood epithelioid)			E; M	Dom	T	ALPHA			TFEB; TCFEB; AlphaTFEB; P19484; ENSG00000112561; 7942
TFG	TRK-fused gene	10342	3	3q11-q12	yes		Papillary thyroid; ALCL; NSCLC			E; L	Dom	T	NTRK1; ALK			10342; TF6; Q92734; TFG; ENSG00000114354

TFPT	TCF3 (E2A) fusion partner (in childhood leukaemia)	29844	19	19q13	yes		pre-B ALL			L	Dom	T	TCF3			29844; P0C1Z6; ENSG00000105619; TFPT
TFRC	Transferrin receptor (p90; CD71)	7037	3	3q29	yes		NHL			L	Dom	T	BCL6			7037; P02786; CD71; TFR1; ENSG00000072274; TFRC
THRAP3	Thyroid hormone receptor associated protein 3 (TRAP150)	9967	1	1p34.3	yes		Aneurysmal bone cyst			M	Dom	T	USP6			9967; MGC133082; Q9Y2W1; MGC133083; TRAP150; FLJ22082; ENSG00000054118; THRAP3
TIF1	Transcriptional intermediary factor 1 (PTC6; TIF1A)	8805	7	7q32-q34	yes		APL			L	Dom	T	RARA			P04720; hTIF1; TIF1A; Tif1a; TF1A; TIF1ALPHA; RNF82; ENSG00000122779; 8805; TRIM24; PTC6; TIF1
TLX1	T-cell leukemia; homeobox 1 (HOX11)	3195	10	10q24	yes		T-ALL			L	Dom	T	TRB@; TRD@			TLX1; P31314; HOX11; TCL3; ENSG00000107807; 3195
TLX3	T-cell leukemia; homeobox 3 (HOX11L2)	30012	5	5q35.1	yes		T-ALL			L	Dom	T	BCL11B			HOX11L2; O43711; RNX; ENSG00000164438; TLX3; 30012
TMPRSS2	Transmembrane protease; serine 2	7113	21	21q22.3	yes		Prostate			E	Dom	T	ERG; ETV1; ETV4; ETV5			O15393; PRSS10; ENSG00000184012; TMPRSS2; 7113

TNFAIP3	Tumour necrosis factor; alpha-induced protein 3	7128	6	6q23	yes		Marginal zone B-cell lymphomas; Hodgkin lymphoma; PMBL			L	Rec	D; N; F				7128; TNFA1P2; P21580; A20; MGC104522; MGC138687; MGC138688; OTUD7C; TNFAIP3; ENSG00000118503
TNFRSF14	Tumour necrosis factor receptor superfamily; member 14 (herpesvirus entry mediator)	8764	1	1p36.32	yes		Follicular lymphoma			L	Rec	Mis; N; F				8764; Q92956; HVEA; HVEM; LIGHTR; ATAR; TR2; ENSG00000157873; TNFRSF14
TNFRSF17	Tumour necrosis factor receptor superfamily; member 17	608	16	16p13.1	yes		Intestinal T-cell lymphoma			L	Dom	T	IL2			608; BCMA; BCM; Q02223; CD269; ENSG00000048462; TNFRSF17
TOP1	Topoisomerase (DNA) I	7150	20	20q12-q13.1	yes		AML*			L	Dom	T	NUP98			RP3-511B24_2; P11387; TOPI; ENSG00000198900; 7150; TOP1
TP53	Tumour protein p53	7157	17	17p13	yes	yes	Breast; colorectal; lung; sarcoma; adrenocortical; glioma; multiple other tumour types	Breast; sarcoma; adrenocortical carcinoma; glioma; multiple other tumour types	Li-Fraumeni syndrome	L; E; M; O	Rec	Mis; N; F				LFS1; TRP53; p53; P53; P04637; ENSG00000141510; 7157; TP53
TPM3	Tropomyosin 3	7170	1	1q22-q23	yes		Papillary thyroid; ALCL; NSCLC			E; L	Dom	T	NTRK1; ALK; ROS1			TPM3; ENSG00000143549; 7170

TPM4	Tropomyosin 4	7171	19	19p13.1	yes		ALCL			L	Dom	T	ALK			7171; P67936; ENSG00000167460; TPM4
TPR	Translocated promoter region	7175	1	1q25	yes		Papillary thyroid			E	Dom	T	NTRK1			7175; P12270; TPR
TRA@	T cell receptor alpha locus	6955	14	14q11.2	yes		T-ALL			L	Dom	T	ATL; OLIG2; MYC; TCL1A; TCL6; MTCP1; TCL6			
TRAF7	Tumour necrosis factor receptor-associated factor 7	84231	16	16p13.3	yes		Meningioma			O	Dom	Mis				TRAF7; DKFZp586I021; RFWD1; Q6Q0C0; MGC7807; RNF119; 84231; ENSG00000131653
TRB@	T cell receptor beta locus	6957	7	7q35	yes		T-ALL			L	Dom	T	HOX11; LCK; NOTCH1; TAL2; LYL1			
TRD@	T cell receptor delta locus	6964	14	14q11	yes		T-cell leukaemia			L	Dom	T	TAL1; HOX11; TLX1; LMO1; LMO2; RANBP17			
TRIM27	Tripartite motif-containing 27	5987	6	6p22	yes		Papillary thyroid			E	Dom	T	RET			RFP; DASS-46L4_6; TRIM27; RNF76; ENSG00000234495; 5987; RFP
TRIM33	Tripartite motif-containing 33 (PTC7; TIF1G)	51592	1	1p13	yes		Papillary thyroid			E	Dom	T	RET			TRIM33; PTC7; TIF1G; RFG7; TIF1GAMMA; TIFGAMMA; FLJ32925; TF1G; Q9UPN9; 51592; ENSG00000197323

TRIP11	Thyroid hormone receptor interactor 11	9321	14	14q31-q32	yes		AML			L	Dom	T	PDGFRB			TRIP11; Q15643; CEV14; Trip230; ENSG00000100815; 9321
TRRAP	Transformation/transcription domain-associated protein	8295	7	q21.2-q22.1	yes		Melanoma			E	Dom	Mis				8295; TR-AP; Tra1; STAF40; FLJ10671; PAF350/400; PAF400; Q9Y4A5; ENSG00000196367; TRRAP
TSC1	Tuberous sclerosis 1 gene	7248	9	9q34	yes	yes	Renal cell carcinoma; bladder carcinoma	Hamartoma; renal cell carcinoma; tuberous sclerosis tuber	Tuberous sclerosis 1	E; O	Rec	D; Mis; N; F; S				KIAA0243; hamartin; LAM; MGC86987; TSC; ENSG00000165699; 7248; TSC1
TSC2	Tuberous sclerosis 2 gene	7249	16	16p13.3	yes	yes	Pulmonary lymphangioleiomyomatosis (LAM); renal angiomyolipoma and head and neck cancer	Hamartoma; renal cell carcinoma; tuberous sclerosis tuber	Tuberous sclerosis 2	E; O	Rec	D; Mis; N; F; S				7249; FLJ43106; TSC4; tuberin; LAM; ENSG00000103197; TSC2
TSHR	Thyroid stimulating hormone receptor	7253	14	14q31	yes	yes	Toxic thyroid adenoma	Thyroid adenoma		E	Dom	Mis		yes	Hereditary nonautoimmune hyperthyroidism; subclinical hypothyroidism	7253; hTSHR-I; LGR3; MGC75129; ENSG00000165409; TSHR

TTL	Tubulin tyrosine ligase	150465	2	2q13	yes		ALL			L	Dom	T	ETV6			150465; 2410003M22Rik; MGC46235; Q8NG68; ENSG00000114999; TTL
U2AF1	U2 small nuclear RNA auxiliary factor 1	7307	21	21q22.3	yes		CLL; MDS			L	Dom	Mis				7307; ENSG00000160201; DKFZp313J1712; FP793; RN; RNU2AF1; U2AF35; U2AFBP; Q01081; U2AF1
UBR5	Ubiquitin protein ligase E3 component n-recognin 5	51366	8	8q22	yes		Mantle cell lymphoma			L						
USP6	Ubiquitin specific peptidase 6 (Tre-2 oncogene)	9098	17	17p13	yes		Aneurysmal bone cyst			M	Dom	T	COL1A1; CDH11; ZNF9; OMD; THRAP3			Tre-2; HRP1; TRE17; ENSG00000129204; 9098; USP6; TRE2
VHL	Von Hippel-Lindau syndrome gene	7428	3	3p25	yes	yes	Renal; haemangioma; pheochromocytoma	Renal; haemangioma; pheochromocytoma	Von Hippel-Lindau syndrome	E; M; O	Rec	D; Mis; N; F; S				P40337; HRCA1; VHL1; RCA1; ENSG00000134086; 7428; VHL
VTI1A	Vesicle transport through interaction with t-snares homolog 1A	143187	10	10q25.2	yes		Colorectal			E	Dom	T	TCF7L2			Vti1-rp2; VTI1A; 143187; ENSG00000151532; MVti1
WAS	Wiskott-Aldrich syndrome	7454	X	Xp11.23-p11.22				Lymphoma	Wiskott-Aldrich syndrome	L	X-linked recessive	Mis; N; F; S				WAS; P42768; IMD2; THC; WASP; ENSG00000015285; 7454

WHSC1	Wolf-Hirschhorn syndrome candidate 1(MMSET)	7468	4	4p16.3	yes		MM			L	Dom	T	IGH@			WHS; 7468; WHSC1_ENST00000382891; FLJ23286; KIAA1090; MGC176638; MMSET; REIIBP; TRX5; O96028; NSD2
WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1 (NSD3)	54904	8	8p12	yes		AML			L	Dom	T	NUP98			54904; ENSG00000147548; WHSC1L1
WIF1	WNT inhibitory factor 1	11197	12	12q14.3	yes		Pleomorphic salivary gland adenoma			E	Dom	T	HMGA2			11197; WIF-1; ENSG00000156076; WIF1
WRN	Werner syndrome (RECQL2)	7486	8	8p12-p11.2		yes		Osteosarcoma; meningioma; other tumour types	Werner syndrome	L; E; M; O	Rec	Mis; N; F; S				WRN; RECQL2; RECQ3; Q14191; ENSG00000165392; 7486
WT1	Wilms tumour 1 gene	7490	11	11p13	yes	yes	Wilms tumour; desmoplastic small round cell tumour	Wilms tumour	Denys-Drash syndrome; Frasier syndrome; familial Wilms tumour	O	Rec	D; Mis; N; F; S	EWSR1			7490; WAGR; WIT-2; GUD; WT33; ENSG00000184937; WT1
WWTR1	WW domain containing transcription regulator 1	25937	3	3q23-q24	yes		Epithelioid haemangioendothelioma			M	Dom	T	CAMTA1			25937; ENSG00000018408; DKFZP586I1419; TAZ; Q9GZV5; WWTR1

XPA	Xeroderma pigmentosum; complementation group A	7507	9	9q22.3		yes		Skin basal cell; skin squamous cell; melanoma	xeroderma pigmentosum (A)	E	Rec	Mis; N; F; S				7507; XPAC; P23025; XP1; ENSG00000136936; XPA
XPC	Xeroderma pigmentosum; complementation group C	7508	3	3p25		yes		Skin basal cell; skin squamous cell; melanoma	xeroderma pigmentosum (C)	E	Rec	Mis; N; F; S				7508; XP3; XPCC; ENSG00000154767; XPC
XPO1	Exportin 1 (CRM1 homolog; yeast)	7514	2	2p15	yes		CLL			L	Dom	Mis				7514; DKFZp686B1823; CRM1; O14980; ENSG00000082898; XPO1
YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; epsilon polypeptide (14-3-3 epsilon)	7531	17	17p13.3	yes		Endometrial stromal sarcoma			M	Dom	T	NUTM2A; NUTM2B	yes	Miller-Dieker lissencephaly syndrome	14-3-3E; P62258; KCIP-1; MDCR; MDS; FLJ45465; 14-3-3 epsilon; ENSG00000108953; 7531; YWHAE
ZNF145	Zinc finger protein 145 (PLZF)	7704	11	11q23.1	yes		APL			L	Dom	T	RARA			Q05516; PLZF; ZNF145; ENSG00000109906; ZBTB16; 7704
ZNF198	Zinc finger protein 198	7750	13	13q11-q12	yes		MPN; NHL			L	Dom	T	FGFR1			7750; ZMYM2; Q9UBW7; ZNF198; MYM; FIM; RAMP; ENSG00000121741; ZNF198
ZNF278	Zinc finger protein 278 (ZSG)	23598	22	22q12-q14	yes		Ewing sarcoma			M	Dom	T	EWSR1			PATZ1; ENSG00000100105; 23598

ZNF331	Zinc finger protein 331	55422	19	19q13.3-q13.4	yes		Follicular thyroid adenoma			E	Dom	T	?			55422; Q9NQX6; ZNF463; RITA; ZNF361; ENSG00000130844; ZNF331
ZNF384	Zinc finger protein 384 (CIZ/NMP4)	171017	12	12p13	yes		ALL			L	Dom	T	EWSR1; TAF15			171017; ENSG00000126746; ZNF384
ZNF521	Zinc finger protein 521	25925	18	18q11.2	yes		ALL			L	Dom	T	PAX5			25925; EHZF; Evi3; DKFZp564D0764; MGC142182; MGC142208; ENSG00000198795; ZNF521
ZNF9	Zinc finger protein 9 (a cellular retroviral nucleic acid binding protein)	7555	3	3q21	yes		Aneurysmal bone cyst			M	Dom	T	USP6			7555; P62633; CNBP; DM2; RNF163; ZNF9; ZNF9; ENSG00000169714
ZRSR2	Zinc finger (CCCH type); RNA-binding motif and serine/arginine rich 2	8233	X	Xp22.1	yes		MDS; CLL			L	Rec					

Supplementary Table 2. Predicted targets of hsa-miR-181a-5p by DIANA microT v 5.0.

Gene name	Full name	miTG score	Cancer gene
ABI1	Abl-interactor 1	0.957	√
ABI2	Abl-interactor 2	0.701	√
ABI3BP	ABI family, member 3 (NESH) binding protein	0.81	
ABRA	Actin-binding Rho activating protein	0.711	
AC010547.9	Zinc finger protein 23	0.856	
AC022415.1	Zinc finger family member 788	0.877	
AC130352.1	Unknown miRNA gene	0.939	
ACOT11	Acyl-CoA thioesterase 11	0.862	
ADCK3	aarF domain containing kinase 3	0.736	
AFF4	AF4/FMR2 family, member 4	0.703	
AFTPH	Aftiphilin	0.752	
AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	0.733	
AHCTF1	AT hook containing transcription factor 1	0.93	
AKIRIN1	Akirin 1	0.815	
AKT3	V-akt murine thymoma viral oncogene homolog 3	0.896	
AL136419.1	Uncharacterized protein C14orf167	0.712	
AL137003.1	ATXN1 protein Fragment	0.79	
AMOTL1	Angiomotin like 1	0.757	
ANGPT2	Angiopoietin 2	0.802	
ANKRD13C	Ankyrin repeat domain 13C	0.97	
ANKRD26	Ankyrin repeat domain 26	0.716	
ANO1	Anoctamin 1, calcium activated chloride channel	0.745	
ARHGAP11A	Rho GTPase activating protein 11A	0.713	
ARHGAP26	Rho GTPase activating protein 26	0.758	
ARID2	AT rich interactive domain 2 (ARID, RFX-like)	0.742	√
ARIH2	Ariadne RBR E3 ubiquitin protein ligase 2	0.707	
ARMC8	Armadillo repeat containing 8	0.88	
ASAH2B	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2B	0.857	
ATM	ATM serine/threonine kinase	0.93	√

ATP1B1	ATPase, Na^+/K^+ transporting, b1 polypeptide	0.992	
ATP8B4	ATPase, class I, type 8B, member 4	0.824	
AVL9	AVL9 homolog (*S. cerevisiase*)	0.734	
B3GALT5	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5	0.826	
BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1	0.758	
BAG2	BCL2-associated athanogene 2	0.759	
BAI3	Brain-specific angiogenesis inhibitor 3	0.977	
BCAS1	Breast carcinoma amplified sequence 1	0.727	
BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)	0.729	√
BCL2L11	BCL2-like 11 (apoptosis facilitator)	0.843	
BCL6	B-cell CLL/lymphoma 6	0.825	√
BCLAF1	BCL2-associated transcription factor 1	0.823	
BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB	0.744	
BEND4	BEN domain containing 4	0.743	
BHLHE40	Basic helix-loop-helix family, member e40	0.984	
BIRC6	Baculoviral IAP repeat containing 6	0.98	
BRAP	BRCA1 associated protein	0.883	
BRD1	Bromodomain containing 1	0.869	
C10orf131	Chromosome 10 open reading frame 131	0.919	
C14orf28	Chromosome 14 open reading frame 28	0.844	
C16orf87	Chromosome 16 open reading frame 87	0.939	
C18orf63	Chromosome 18 open reading frame 63	0.702	
C1orf98	Long intergenic non-protein coding RNA 862	0.947	
C21orf90	Chromosome 21 open reading frame 90	0.826	
C2orf69	Chromosome 2 open reading frame 69	0.978	
C4orf33	Chromosome 4 open reading frame 33	0.72	
C6orf62	Chromosome 6 open reading frame 62	0.821	
C9orf35	CDNA FLJ23651 fis, clone COL08363CDNA FLJ23916 fis, clone COL00117	0.755	
CACHD1	Cache domain containing 1	0.862	
CACUL1	CDK2-associated, cullin domain 1	0.714	
CADPS	Ca^{++}-dependent secretion activator	0.888	
CALB1	Calbindin 1, 28 kDa	0.963	

CALCRL	Calcitonin receptor-like	0.894	
CALM1	Calmodulin 1 (phosphorylase kinase, delta)	0.898	
CAMSAP1	Calmodulin regulated spectrin-associated protein 1	0.786	
CAMSAP2	Calmodulin regulated spectrin-associated protein family, member 2	0.919	
CARD11	Caspase recruitment domain family, member 11	0.886	√
CBX5	Chromobox homolog 5	0.809	
CCDC132	Coiled-coil domain containing 132	0.873	
CCDC50	Coiled-coil domain containing 50	0.83	
CCDC6	Coiled-coil domain containing 6	0.754	√
CCNJ	Cyclin J	0.936	
CCP110	Centriolar coiled coil protein 110 kDa	0.859	
CDC40	Cell division cycle 40	0.771	
CDK8	Cyclin-dependent kinase 8	0.704	
CDKL2	Cyclin-dependent kinase-like 2 (CDC2-related kinase)	0.722	
CDON	Cell adhesion associated, oncogene regulated	0.918	
CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma	0.944	
CEP41	Centrosomal protein 41 kDa	0.806	
CEP57L1	Centrosomal protein 57 kDa-like 1	0.824	
CEP85L	Centrosomal protein 85 kDa-like	0.779	
CFHR3	Complement factor H-related 3	0.719	
CHIC1	Cysteine-rich hydrophobic domain 1	0.811	
CHMP3	Charged multivesicular body protein	0.851	
CHN1	Chimerin 1	0.718	√
CLASP1	Cytoplasmic linker associated protein 1	0.998	
CLINT1	Clathrin interactor 1	0.95	
CLVS1	Clavesin 1	0.943	
COL4A1	Collagen, type IV, alpha 1	0.717	
COPS2	COP9 signalosome subunit 2	0.94	
CREB1	cAMP responsive element binding protein 1	0.939	√
CREB5	cAMP responsive element binding protein 5	0.963	
CREBRF	CREB3 regulatory factor	0.997	
CRK	v-crk avian sarcoma virus CT10 oncogene homolog	0.853	
CSF2RB	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	0.872	

CTD-2192J16.17	Zinc finger protein 709	0.918	
CTTNBP2	Cortactin binding protein 2	0.795	
CUL5	Cullin 5	0.972	
CXorf40B	Chromosome X open reading frame 40B	0.723	
CYP11B1	Cytochrome P450, family 11, subfamily B, polypeptide 1	0.806	
CYP3A5	Cytochrome P450, family 3, subfamily A, polypeptide 5	0.77	
CYSLTR1	Cysteinyl leukotriene receptor 1	0.701	
DACT2	Dishevelled-binding antagonist of β-catenin 2	0.712	
DAZAP2	DAZ associated protein 2	0.768	
DBF4	DBF4 zinc finger	0.853	
DCBLD2	Discoidin, CUB and LCCL domain containing 2	0.872	
DDI2	DNA-damage inducible 1 homolog 2 (*S. cerevisiae*)	0.919	
DDIT4	DNA-damage-inducible transcript 4	0.738	
DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	0.819	
DDX21	DEAD (Asp-Glu-Ala-Asp) box helicase 21	0.76	
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	0.961	
DERL1	Derlin 1	0.816	
DGKH	Diacylglycerol kinase, eta	0.845	
DIS3L	DIS3 like exosome 3'-5' exoribonuclease	0.877	
DLEU7	Deleted in lymphocytic leukemia, 7	0.829	
DLGAP2	Discs, large (Drosophila) homolog-associated protein 2	0.956	
DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21	0.928	
DNAJC6	DnaJ (Hsp40) homolog, subfamily C, member 6	0.72	
DOCK10	Dedicator of cytokinesis 10	0.844	
DOK6	Docking protein 6	0.727	
DPY19L1	Dpy-19-like 1 (*C. elegans*)	0.865	
DUSP5	Dual specificity phosphatase 5	0.73	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2	0.85	
EED	Embryonic ectoderm development	0.731	
EGR2	Early growth response 2	0.716	
EIF2C4	Argonaute RISC catalytic component 4	0.852	
EIF3F	Eukaryotic translation initiation factor 3, subunit F	0.774	

EN1	Engrailed homeobox 1	0.877	
ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6 (putative)	0.917	
EPB41L3	Erythrocyte membrane protein band 4.1-like 3	0.832	
EPHA7	EPH receptor A7	0.734	
EPT1	Ethanolaminephosphotransferase 1	0.77	
ERLIN1	ER lipid raft associated 1	0.803	
EYA3	EYA transcriptional coactivator and phosphatase 3	0.761	
F2R	Coagulation factor II (thrombin) receptor	0.737	
FAM107B	Family with sequence similarity 107, member B	0.718	
FAM122B	Family with sequence similarity 122B	0.767	
FAM160A1	Family with sequence similarity 160, member A1	0.834	
FAM190A	Coiled-coil serine-rich protein 1	0.707	
FAM190B	Coiled-coil serine-rich protein 2	0.858	
FAM26E	Family with sequence similarity 26, member E	0.752	
FAM63B	Family with sequence similarity 63, member B	0.798	
FAM9C	Family with sequence similarity 9, member C	0.965	
FBXL17	F-box and leucine-rich repeat protein 17	0.951	
FBXO33	F-box protein 33	0.993	
FBXO43	F-box protein 43	0.958	
FBXO5	F-box protein 5	0.824	
FMNL2	Formin-like 2	0.931	
FOXP2	Forkhead box P2	0.769	
FRMD7	FERM domain containing 7	0.76	
FYTTD1	Forty-two-three domain containing 1	0.729	
FZD6	Frizzled class receptor 6	0.823	
G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.888	
GAB1	GRB2-associated binding protein 1	0.743	
GAD2	Glutamate decarboxylase 2	0.886	
GANC	Glucosidase, alpha; neutral C	0.846	
GAPVD1	GTPase activating protein and VPS9 domains 1	0.763	
GATA6	GATA binding protein 6	0.871	
GCC2	GRIP and coiled-coil domain containing 2	0.923	
GGPS1	Geranylgeranyl diphosphate synthase 1	0.918	

GHITM	Growth hormone inducible transmembrane protein	0.96	
GID4	GID complex subunit 4	0.701	
GLDN	Gliomedin	0.82	
GLS	Glutaminase	0.987	
GNAQ	Guanine nucleotide binding protein (G protein), q polypeptide	0.967	√
GNG2	Guanine nucleotide binding protein (G protein), gamma 2	0.743	
GOT2	Glutamic-oxaloacetic transaminase 2, mitochondrial	0.925	
GPCPD1	Glycerophosphocholine phosphodiesterase GDE1 homolog (*S. cerevisiae*)	0.93	
GPR83	G protein-coupled receptor 8	0.881	
GRB10	Growth factor receptor-bound protein 10	0.851	
GRIA2	Glutamate receptor, ionotropic, AMPA 2	0.896	
GRK7	G protein-coupled receptor kinase 7	0.903	
GSTCD	Glutathione S-transferase, C-terminal domain containing	0.818	
GTPBP3	GTP binding protein 3 (mitochondrial)	0.781	
HAO1	Hydroxyacid oxidase (glycolate oxidase) 1	0.796	
HCN1	Hyperpolarization activated cyclic nucleotide-gated potassium channel 1	0.838	
HHIP	Hedgehog interacting protein	0.807	
HIC2	Hypermethylated in cancer 2	0.912	
HMCN1	Hemicentin 1	0.918	
HMGA2	High mobility group AT-hook 2	0.764	√
HMGCR	3-Hydroxy-3-methylglutaryl-CoA reductase	0.718	
HOXA1	Homeobox A1	0.929	
HOXD1	Homeobox D1	0.909	
HSDL2	Hydroxysteroid dehydrogenase like 2	0.753	
HSPA4L	Heat shock 70 kDa protein 4-like	0.756	
HSPA5	Heat shock 70 kDa protein 5 (glucose-regulated protein, 78 kDa)	0.81	
IGDCC3	Immunoglobulin superfamily, DCC subclass, member 3	0.718	
IGF2BP2	Insulin-like growth factor 2 mRNA binding protein 2	0.964	
IKZF5	IKAROS family zinc finger 5 (Pegasus)	0.952	
ING5	Inhibitor of growth family, member 5	0.898	
INO80C	INO80 complex subunit C	0.836	
IRF2BPL	Interferon regulatory factor 2 binding protein-like	0.88	
JMJD1C	Jumonji domain containing 1C	0.856	

KCNMA1	Potassium large conductance calcium-activated channel, subfamily M, alpha member 1	0.804	
KDM3A	Lysine (K)-specific demethylase 3A	0.896	
KIAA1644	KIAA1644	0.809	
KIF3A	Kinesin family member 3A	0.903	
KL	Klotho	0.786	
KLF15	Kruppel-like factor 15	0.877	
KLF6	Kruppel-like factor 6	0.977	
KLHL2	Kelch-like family member 2	0.817	
KLHL5	Kelch-like family member 5	0.995	
KSR1	Kinase suppressor of ras 1 D110	0.943	
LCOR	Ligand dependent nuclear receptor corepressor	0.943	
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)	0.738	√
LGI2	Leucine-rich repeat LGI family, member 2	0.718	
LIN28B	Lin-28 homolog B (*C. elegans*)	0.971	
LMAN1	Lectin, mannose-binding, 1	0.958	
LMO3	LIM domain only 3 (rhombotin-like 2)	0.945	
LPGAT1	Lysophosphatidylglycerol acyltransferase 1	0.735	
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing	0.986	
LRP12	Low density lipoprotein receptor-related protein 12	0.81	
LY75	Lymphocyte antigen 75	0.799	
MAF	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog	0.702	√
MAOA	Monoamine oxidase A	0.754	
MAP1B	Microtubule-associated protein 1B	0.991	
MAP2K1	Mitogen-activated protein kinase kinase 1	0.833	√
MARCH2	Mitochondrial amidoxime reducing component 2	0.788	
MB21D1	Mab-21 domain containing 1	0.865	
MBLAC2	Metallo-beta-lactamase domain containing 2	0.743	
MBNL1	Muscleblind-like splicing regulator 1	0.803	
MBNL2	Muscleblind-like splicing regulator 2	0.789	
MBOAT2	Membrane bound O-acyltransferase domain containing 2	0.919	
MCC	Mutated in colorectal cancers	0.868	
MCTP1	Multiple C2 domains, transmembrane 1	0.861	
MDFIC	MyoD family inhibitor domain containing	0.705	

MED26	Mediator complex subunit 26	0.897	
METAP1	Methionyl aminopeptidase 1	0.977	
METTL20	Methyltransferase like 20	0.864	
MFAP3L	Microfibrillar-associated protein 3-like	0.807	
MFSD6	Major facilitator superfamily domain containing 6	0.867	
MGA	MGA, MAX dimerization protein	0.806	
MIA2	Melanoma inhibitory activity 2	0.91	
MIER3	Mesoderm induction early response 1, family member 3	0.954	
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	0.969	√
MME	Membrane metallo-endopeptidase	0.755	
MMP16	Matrix metallopeptidase 16 (membrane-inserted)	0.848	
MMP8	Matrix metallopeptidase 8 (neutrophil collagenase)	0.727	
MOB4	MOB family member 4, phocein	0.755	
MRPS35	Mitochondrial ribosomal protein S35	0.785	
MS4A1	Membrane-spanning 4-domains, subfamily A, member 1	0.857	
MSI2	Musashi RNA-binding protein 2	0.879	√
MTF2	Metal response element binding transcription factor 2	0.991	
MTUS1	Microtubule associated tumor suppressor 1	0.774	
MUC22	Mucin 22	0.764	
MUC7	Mucin 7, secreted	0.94	
MYH10	Myosin, heavy chain 10, non-muscle	0.756	
NAALADL2	N-acetylated alpha-linked acidic dipeptidase-like 2	0.723	
NAPB	N-ethylmaleimide-sensitive factor attachment protein, beta	0.762	
NCOR1	Nuclear receptor corepressor 1	0.914	√
NDUFAF4	NADH dehydrogenase (ubiquinone) complex I, assembly factor 4	0.724	
NFYB	Nuclear transcription factor Y, bet	0.845	
NHLRC2	NHL repeat containing 2	0.882	
NLN	Neurolysin (metallopeptidase M3 family)	0.91	
NMT2	*N*-myristoyltransferase 2	0.992	
NOTCH2	Notch 2	0.883	√
NPHP1	Nephronophthisis 1 (juvenile)	0.754	
NR4A3	Nuclear receptor subfamily 4, group A, member 3	0.801	√

NRCAM	Neuronal cell adhesion molecule	0.762	
NRGN	Neurogranin (protein kinase C substrate, RC3)	0.852	
NT5C3	5'-nucleotidase, cytosolic IIIA	0.81	
NUDT12	Nudix (nucleoside diphosphate linked moiety X)-type motif 12	0.894	
NUDT19	Nudix (nucleoside diphosphate linked moiety X)-type motif 19	0.713	
NUFIP1	Nuclear fragile X mental retardation protein interacting protein 1	0.868	
ODF2L	Outer dense fiber of sperm tails 2-like	0.805	
OTOGL	Otogelin-like	0.755	
PALM2	Paralemmin 2	0.953	
PAPD5	PAP associated domain containing 5	0.997	
PARK2	Parkin RBR E3 ubiquitin protein ligase	0.951	
PARP11	Poly (ADP-ribose) polymerase family, member 11	0.831	
PAX5	Paired box 5	0.979	√
PAX9	Paired box 9	0.736	
PBX1	Pre-B-cell leukemia homeobox 1	0.83	√
PCDHA2	Protocadherin alpha 2	0.723	
PCDHA3	Protocadherin alpha 3	0.724	
PCDHA4	Protocadherin alpha 4	0.723	
PCDHA6	Protocadherin alpha	0.724	
PCGF3	Polycomb group ring finger 3	0.753	
PCGF5	Polycomb group ring finger 5	0.81	
PCID2	PCI domain containing 2	0.805	
PCNP	PEST proteolytic signal containing nuclear protein	0.914	
PCYOX1	Prenylcysteine oxidase 1	0.81	
PDE1C	Phosphodiesterase 1C, calmodulin-dependent 70kDa	0.757	
PDE8B	Phosphodiesterase 8B	0.702	
PDIK1L	PDLIM1 interacting kinase 1 like	0.776	
PEAK1	Pseudopodium-enriched atypical kinase 1	0.907	
PGM2L1	Phosphoglucomutase 2-like 1	0.729	
PHACTR1	Phosphatase and actin regulator 1	0.857	
PHKA1	Phosphorylase kinase, alpha 1 (muscle)	0.72	
PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	0.745	
PHOX2B	Paired-like homeobox 2b	0.881	√

PIAS2	Protein inhibitor of activated STAT, 2	0.779	
PIAS3	Protein inhibitor of activated STAT, 3	0.7	
PIK3C3	Phosphatidylinositol 3-kinase, catalytic subunit type 3	0.706	
PIK3R3	Phosphoinositide-3-kinase, regulatory subunit 3 (g)	0.907	
PKD2	Polycystic kidney disease 2 (autosomal dominant)	0.907	
PKD2L2	Polycystic kidney disease 2-like 2	0.739	
PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive)	0.933	
PKNOX1	PBX/knotted 1 homeobox 1	0.869	
PLAU	Plasminogen activator, urokinase	0.772	
PLCL2	Phospholipase C-like 2	0.972	
PLEKHA1	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	0.704	
PMS1	PMS1 postmeiotic segregation increased 1 (*S. cerevisiae*)	0.79	√
PNRC2	Proline-rich nuclear receptor coactivator 2	0.853	
PPARGC1A	Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	0.823	
PPM1A	Protein phosphatase, Mg2+/Mn2+ dependent, 1A	0.83	
PPP1R9A	Protein phosphatase 1, regulatory subunit 9A	0.758	
PPP2R5E	Protein phosphatase 2, regulatory subunit B', epsilon isoform	0.87	
PRDM1	PR domain containing 1, with ZNF domain	0.883	√
PRDM5	PR domain containing 5	0.751	
PREX2	Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	0.784	
PRLR	Prolactin receptor	0.957	
PRRG4	Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	0.913	
PSG11	Pregnancy-specific b1-glycoprotein 11 Precursor	0.891	
PSMC2	Proteasome (prosome, macropain) 26S subunit, ATPase, 2	0.882	
PTBP2	Polypyrimidine tract binding protein 2	0.742	
PTEN	Phosphatase and tensin homolog	0.883	√
PTGER3	Prostaglandin E receptor 3 (subtype EP3)	0.76	
PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	0.895	
PTPN3	Protein tyrosine phosphatase, non-receptor type 3	0.722	
PTPRT	Protein tyrosine phosphatase, receptor type, T	0.879	
PUM1	Pumilio RNA-binding family member 1	0.945	

RAB27B	RAB27B, member RAS oncogene family	0.857	
RAB8B	RAB8B, member RAS oncogene family	0.822	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	0.772	
RABL5	Intraflagellar transport 22	0.779	
RAD23B	RAD23 homolog B (*S. cerevisiae*)+B346	0.794	
RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)	0.801	
RAP1A	RAP1A, member of RAS oncogene family	0.827	
RASSF1	Ras association (RalGDS/AF-6) domain family member 1	0.772	
RASSF2	Ras association (RalGDS/AF-6) domain family member 2	0.789	
RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8	0.779	
RBM26	RNA binding motif protein 26	0.981	
RBM46	RNA binding motif protein 46	0.933	
RCN2	Reticulocalbin 2, EF-hand calcium binding domain	0.716	
REPS2	RALBP1 associated Eps domain containing 2	0.989	
RFTN2	Raftlin family member 2	0.762	
RFX2	Regulatory factor X, 2 (influences HLA class II expression)	0.786	
RIMBP3B	RIMS binding protein 3B	0.723	
RLF	Rearranged L-myc fusion	0.994	
RNF6	Ring finger protein (C3H2C3 type) 6	0.953	
RNF7	Ring finger protein 7	0.742	
ROCK2	Rho-associated, coiled-coil containing protein kinase 2	0.757	
RP3-324N14.2	Small leucine-rich protein 1	0.939	
RPL23	Ribosomal protein L23	0.87	
RPS6KB1	Ribosomal protein S6 kinase, 70 kDa, polypeptide 1	0.94	
RSBN1	Round spermatid basic protein 1	0.745	
RSPO2	R-spondin 2	0.928	
SAMD4A	Sterile alpha motif domain containing 4A	0.947	
SBNO1	Strawberry notch homolog 1 (Drosophila)	0.769	
SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	0.933	
SENP1	SUMO1/sentrin specific peptidase 1	0.828	
SENP2	SUMO1/sentrin/SMT3 specific peptidase 2	0.876	
SENP7	SUMO1/sentrin specific peptidase 7	0.751	

SERP1	Stress-associated endoplasmic reticulum protein 1	0.801	
SERTAD2	SERTA domain containing 2	0.824	
SESN3	Sestrin 3	0.992	
SETP8	Septin 8	0.827	
SHROOM3	Shroom family member 3	0.708	
SIAE	Sialic acid acetylesterase	0.808	
SKAP2	Src kinase associated phosphoprotein 2	0.767	
SKP1	S-phase kinase-associated protein 1	0.838	
SLC11A1	Solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1	0.725	
SLC12A2	Solute carrier family 12 (sodium/potassium/chloride transporter), member 2	0.764	
SLC24A3	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	0.771	
SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	0.754	
SLC25A37	Solute carrier family 25 (mitochondrial iron transporter), member 37	0.894	
SLC26A4	Solute carrier family 26 (anion exchanger), member 4	0.837	
SLC2A3	Solute carrier family 2 (facilitated glucose transporter), member 3	0.982	
SLC38A11	Solute carrier family 38, member 11	0.832	
SLC38A2	Solute carrier family 38, member 2	0.876	
SLC6A6	Solute carrier family 6	0.875	
SLC7A11	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	0.863	
SLC7A2	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	0.772	
SLITRK1	SLIT and NTRK-like family, member 1	0.982	
SLITRK2	SLIT and NTRK-like family, member 2	0.927	
SMAD5	SMAD family member 5	0.734	
SMG1	SMG1 phosphatidylinositol 3-kinase-related kinase	0.742	
SMG7	SMG7 nonsense mediated mRNA decay factor	0.769	
SMN1	Survival of motor neuron 1, telomeric	0.882	
SNN	Stannin	0.954	
SNTN	Sentan, cilia apical structure protein	0.754	
SNX5	Sorting nexin 5	0.753	
SOCS3	Suppressor of cytokine signaling 3	0.76	
SORT1	Sortilin 1	0.703	
SOS1	Son of sevenless homolog 1 (Drosophila)	0.797	

SOWAHA	Sosondowah ankyrin repeat domain family member A	0.954	
SOX5	SRY (sex determining region Y)-box 5	0.872	
SPAG16	Sperm associated antigen 16	0.781	
SPI1	Spi-1 proto-oncogene	0.885	
SPP1	Secreted phosphoprotein 1	0.98	
SRFBP1	Serum response factor binding protein 1	0.763	
SRGN	Serglycin	0.794	
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	0.914	√
SS18L2	Synovial sarcoma translocation gene on chromosome 18-like 2	0.901	
STAG2	Stromal antigen 2	0.721	√
STEAP4	STEAP family member 4	0.814	
STT3B	STT3B, subunit of the oligosaccharyltransferase complex (catalytic)	0.792	
STX7	Syntaxin 7	0.856	
STXBP4	Syntaxin binding protein 4	0.82	
SUDS3	Suppressor of defective silencing 3 homolog (*S. cerevisiae*)	0.725	
SVIP	Small VCP/p97-interacting protein	0.875	
SYNC	Syncoilin, intermediate filament protein	0.716	
SYNRG	Synergin, gamma	0.718	
TACSTD2	Tumor-associated calcium signal transducer 2	0.801	
TAOK1	TAO kinase 1	0.822	
TBC1D14	TBC1 domain family, member 14	0.803	
TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	0.768	
TBL1X	Transducin (beta)-like 1X-linked	0.745	
TBPL1	TBP-like 1	0.949	
TCEANC	Transcription elongation factor A (SII) N-terminal and central domain containing	0.842	
TCEB1	Transcription elongation factor B (SIII), polypeptide 1 (15 kDa, elongin C)	0.768	
TEAD1	TEA domain family member 1	0.872	
TG	Thyroglobulin	0.8	
TGFBI	Transforming growth factor, beta-induced, 68 kDa	0.757	
THEMIS	Thymocyte selection associated	0.781	
THUMPD1	THUMP domain containing 1	0.872	
TIMP3	TIMP metallopeptidase inhibitor 3	0.976	
TLK2	Tousled-like kinase 2	0.765	

TLL2	Tolloid-like 2	0.728	
TMED4	Transmembrane emp24 protein transport domain containing 4	0.871	
TMEM123	Transmembrane protein 123	0.739	
TMEM131	Transmembrane protein 131	0.992	
TMEM135	Transmembrane protein 135	0.844	
TMEM178B	Transmembrane protein 178B	0.834	
TMEM194A	Transmembrane protein 194A	0.901	
TMEM26	Transmembrane protein 26	0.88	
TMEM30A	Transmembrane protein 30A	0.785	
TMEM48	NDC1 transmembrane nucleoporin	0.906	
TNFRSF11A	Tumor necrosis factor receptor superfamily, member 11a, NFKB activator	0.922	
TNIK	TRAF2 and NCK interacting kinase	0.936	
TNKS	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	0.758	
TNS1	Tensin 1	0.884	
TPH2	Tryptophan hydroxylase 2	0.782	
TPRX1	Tetra-peptide repeat homeobox 1	0.935	
TREML4	Triggering receptor expressed on myeloid cells-like 4	0.753	
TRIM2	Tripartite motif containing 2	0.995	
TRIM33	Tripartite motif containing 33	0.798	√
TRNP1	TMF1-regulated nuclear protein	0.751	
TRPC6	Transient receptor potential cation channel, subfamily C, member 6	0.701	
TSFM	Ts translation elongation factor, mitochondrial	0.721	
TTBK1	Tau tubulin kinase 1	0.93	
TUBAL3	Tubulin, alpha-like 3	0.758	
TWISTNB	TWIST neighbor	0.844	
TYW5	tRNA-yW synthesizing protein 5	0.718	
UBE2W	Ubiquitin-conjugating enzyme E2W (putative)	0.843	
UBR1	Ubiquitin protein ligase E3 component n-recognin 1	0.707	
UBR3	Ubiquitin protein ligase E3 component n-recognin 3 (putative)	0.721	
UGT8	UDP glycosyltransferase 8	0.805	
USP15	Ubiquitin specific peptidase 15	0.896	
USP6NL	USP6 N-terminal like	0.768	
VCAM1	Vascular cell adhesion molecule 1	0.759	

VCY	Variable charge, Y-linked 1B	0.852	
VIP	Vasoactive intestinal peptide	0.848	
VPS33B	Vacuolar protein sorting 33 homolog B (yeast)	0.747	
WASL	Wiskott-Aldrich syndrome-like	0.964	
WDR75	WD repeat domain 75	0.945	
WDR82	WD repeat domain 82	0.873	
WDR96	Cilia and flagella associated protein 43	0.893	
WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules	0.936	
WHSC1	Wolf-Hirschhorn syndrome candidate 1	0.704	√
WIF1	WNT inhibitory factor 1	0.947	√
XKR3	XK, Kell blood group complex subunit-related family, member 3	0.849	
XPO1	Exportin 1	0.939	√
XPO7	Exportin 7	0.806	
YTHDC2	YTH domain containing 2	0.952	
ZBTB34	Zinc finger and BTB domain containing 34	0.872	
ZBTB4	Zinc finger and BTB domain containing 4	0.975	
ZDHHC17	Zinc finger, DHHC-type containing 17	0.857	
ZFP3	ZFP3 zinc finger protein	0.791	
ZFP30	ZFP30 zinc finger protein	0.849	
ZFP36L1	ZFP36 ring finger protein-like 1	0.979	
ZFP37	ZFP37 zinc finger protein	0.969	
ZFP90	ZFP90 zinc finger protein	0.982	
ZNF107	Zinc finger protein 107	0.717	
ZNF12	Zinc finger protein 12	0.953	
ZNF131	Zinc finger protein 131	0.949	
ZNF146	Zinc finger protein 146	0.737	
ZNF148	Zinc finger protein 148	0.842	
ZNF184	Zinc finger protein 184	0.871	
ZNF24	Zinc finger protein 24	0.713	
ZNF266	Zinc finger protein 266	0.944	
ZNF268	Zinc finger protein 268	0.997	
ZNF274	Zinc finger protein 274	0.741	
ZNF292	Zinc finger protein 292	0.908	

ZNF347	Zinc finger protein 347	0.737	
ZNF419	Zinc finger protein 419	0.792	
ZNF432	Zinc finger protein 432	0.811	
ZNF436	Zinc finger protein 436	0.839	
ZNF440	Zinc finger protein 440	0.948	
ZNF441	Zinc finger protein 441	0.989	
ZNF442	Zinc finger protein 442	0.767	
ZNF493	Zinc finger protein 493	0.889	
ZNF510	Zinc finger protein 510	0.911	
ZNF514	Zinc finger protein 514	0.879	
ZNF527	Zinc finger protein 527	0.993	
ZNF546	Zinc finger protein 546	0.873	
ZNF551	Zinc finger protein 551	0.755	
ZNF567	Zinc finger protein 567	0.859	
ZNF570	Zinc finger protein 570	1	
ZNF583	Zinc finger protein 583	0.875	
ZNF594	Zinc finger protein 594	0.966	
ZNF610	Zinc finger protein 610	0.71	
ZNF638	Zinc finger protein 638	0.79	
ZNF677	Zinc finger protein 677	0.934	
ZNF704	Zinc finger protein 704	0.997	
ZNF709	Zinc finger protein 709	0.942	
ZNF711	Zinc finger protein 711	0.796	
ZNF717	Zinc finger protein 717	0.982	
ZNF720	Zinc finger protein 720	0.977	
ZNF74	Zinc finger protein 74	0.751	
ZNF770	zinc finger protein 770	0.733	
ZNF776	Zinc finger protein 776	0.85	
ZNF781	Zinc finger protein 781	1	
ZNF788	Zinc finger family member 788	0.996	
ZNF799	Zinc finger protein 799	0.997	
ZNF841	Zinc finger protein 841	0.736	
ZNF844	Zinc finger protein 844	0.951	

ZNF846	Zinc finger protein 846	0.994	
ZNF850	Zinc finger protein 850	0.881	
ZNRF2	Zinc and ring finger 2	0.88	
ZSCAN23	Zinc finger and SCAN domain containing 23	0.877	
ZYG11B	Zyg-11 family member B, cell cycle regulator	0.705	

Supplementary Table 3. Predicted targets of hsa-miR-181a-5p by DIANA microT v 5.0.

Gene symbol	Full name	Alias	Cancer gene
A2BP1			
A2ML1	Alpha-2-macroglobulin-like 1	CPAMD9	
AADACL3	Arylacetamide deacetylase-like 3	RP11-474O21.3	
AAK1	AP2 associated kinase 1	RP11-427H3.3	
AANAT	Aralkylamine N-acetyltransferase	DSPS, SNAT	
AASDH	Aminoadipate-semialdehyde dehydrogenase	HSPC318, ACSF4, LYS2, NRPS1098, NRPS998	
AASDHPPT	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	CGI-80, AASD-PPT, LYS2, LYS5	
AASS	Aminoadipate-semialdehyde synthase	LKR/SDH, LKRSDH, LORSDH	
ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	ABC-1, ABC1, CERP, HDLDT1, TGD	
ABCA10	ATP-binding cassette, sub-family A (ABC1), member 10	EST698739	
ABCA11P	ATP-binding cassette, sub-family A (ABC1), member 11, pseudogene		
ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13		
ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5	ABC13, EST90625	
ABCA6	ATP-binding cassette, sub-family A (ABC1), member 6	EST155051	
ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), cassette 1	ABC20, CD243, CLCS, GP170, MDR1, P-GP, PGY1	
ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), cassette 10	EST20237, M-ABC2, MTABC2	
ABCB11	ATP-binding cassette, sub-family B (MDR/TAP), cassette 11	ABC16, BRIC2, BSEP, PFIC-2, PFIC2, PGY4, SPGP	
ABCB5	ATP-binding cassette, sub-family B (MDR/TAP), cassette 5	tcag7.1091alpha, ABCB5beta, EST422562, ABCB5	
ABCD3	ATP-binding cassette, sub-family D (ALD), member 3	ABC43, PMP70, PXMP1, ZWS2	
ABCG5	ATP-binding cassette, sub-family G (WHITE), member 5	STSL	
ABHD12B	Abhydrolase domain containing 12B	BEM46L3, C14orf29, c14_5314	
ABHD13	Abhydrolase domain containing 13	RP11-153I24.2, BEM46L1, C13orf6, bA153I24.2	
ABHD15	Abhydrolase domain containing 15	UNQ6510/PRO21435	
ABHD2	Abhydrolase domain containing 2	HS1-2, LABH2, PHPS1-2	
ABHD3	Abhydrolase domain containing 3	LABH3	
ABHD4	Abhydrolase domain containing 4	ABH4	
ABHD5	Abhydrolase domain containing 5	CGI-58, CDS, CGI58, IECN2, NCIE2	
ABI1	Abl-interactor 1	RP13-16H11.4, ABI-1, ABLBP4, E3B1, NAP1BP, SSH3BP, SSH3BP1	√
ABI2	Abl-interactor 2	ABI-2B, AIP-1, AblBP3, SSH3BP2, argBP1, argBP1A, argBPIB, ABI2	
ABI3BP	ABI family, member 3 (NESH) binding protein	NESHBP, TARSH	
ABL1	ABL proto-oncogene 1, non-receptor tyrosine kinase	RP11-83J21.1, ABL, JTK7, bcr/abl, c-ABL, c-ABL1, p150, v-abl	√

ABL2	ABL proto-oncogene 2, non-receptor tyrosine kinase	RP11-177A2.3, ABLL, ARG	√
ABLIM1	Actin binding LIM protein 1	RP11-317F20.1, ABLIM, LIMAB1, LIMATIN, abLIM-1	
ABRA	Actin-binding Rho activating protein	STARS	
ABTB2	Ankyrin repeat and BTB (POZ) domain containing 2	RP1-53C18.4A, BTBD22, ABTB2	
ACACB	Acetyl-CoA carboxylase beta	ACC2, ACCB, HACC275	
ACAD11	Acyl-CoA dehydrogenase family, member 11	ACAD-11	
ACAD8	Acyl-CoA dehydrogenase family, member 8	ACAD-8, ARC42	
ACADL	Acyl-CoA dehydrogenase, long chain	ACAD4, LCAD	
ACADM	Acyl-CoA dehydrogenase, C-4 to C-12 straight chain	RP4-682C21.1, ACAD1, MCAD, MCADH	
ACADVL	Acyl-CoA dehydrogenase, very long chain	ACAD6, LCACD, VLCAD	
ACAN	Aggrecan	AGC1, AGCAN, CSPG1, CSPGCP, MSK16, SEDK	
ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	CENTB2, CNT-B2	
ACBD3	Acyl-CoA binding domain containing 3	GCP60, GOCAP1, GOLPH1, PAP7	
ACBD4	Acyl-CoA binding domain containing 4	HMFT0700	
ACBD7	Acyl-CoA binding domain containing 7	RP11-455B2.6, bA455B2.2	
ACCN2	Acid-sensing (proton-gated) ion channel 1	ACCN2, ASIC, BNaC2	
ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional)	ACS, PHACS	
ACE	Angiotensin I converting enzyme	ACE1, CD143, DCP, DCP1, ICH, MVCD3	
ACE2	Angiotensin I converting enzyme 2	UNQ868/PRO1885, ACEH	
ACER3	Alkaline ceramidase 3	APHC, PHCA	
ACLY	ATP citrate lyase	ACL, ATPCL, CLATP	
ACMSD	Aminocarboxymuconate semialdehyde decarboxylase		
ACN9	ACN9 homolog *(S. cerevisiae)*	DC11	
ACO1	Aconitase 1, soluble	RP11-334P12.1, ACONS, HEL60, IREB1, IREBP, IRBP1, IRP1	
ACOT11	Acyl-CoA thioesterase 11	BFIT, STARD14, THEA, THEM1	
ACOT8	Acyl-CoA thioesterase 8	RP5-337O18.2, HNAACTE, PTE-1, PTE-2, PTE1, PTE2, hACTE-III, hTE	
ACOX1	Acyl-CoA oxidase 1, palmitoyl	ACOX, PALMCOX, SCOX	
ACOX3	Acyl-CoA oxidase 3, pristanoyl		
ACP1	Acid phosphatase 1, soluble	HAAP	
ACP5	Acid phosphatase 5, tartrate resistant	SPENCDI, TRAP	
ACPP	Acid phosphatase, prostate	5'-NT, ACP-3, ACP3	
ACSF3	Acyl-CoA synthetase family member 3	PSEC0197	
ACSL1	Acyl-CoA synthetase long-chain family member 1	ACS1, FACL1, FACL2, LACS, LACS1, LACS2	

ACSL3	Acyl-CoA synthetase long-chain family member 3	ACS3, FACL3, PRO2194	√
ACSL4	Acyl-CoA synthetase long-chain family member 4	ACS4, FACL4, LACS4, MRX63, MRX68	
ACSM2A	Acyl-CoA synthetase medium-chain family member 2A	A-923A4.1, ACSM2	
ACSM2B	Acyl-CoA synthetase medium-chain family member 2B	HYST1046, ACSM2, HXMA	
ACSM5	Acyl-CoA synthetase medium-chain family member 5		
ACSS1	Acyl-CoA synthetase short-chain family member 1	RP4-568C11.1, ACAS2L, ACECS1, AceCS2L	
ACSS3	Acyl-CoA synthetase short-chain family member 3		
ACTA2	Actin, alpha 2, smooth muscle, aorta	GIG46, AAT6, ACTSA, MYMY5	
ACTC1	Actin, alpha, cardiac muscle 1	ACTC, ASD5, CMD1R, CMH11, LVNC4	
ACTL6A	Actin-like 6A	ACTL6, ARPN-BETA, Arp4, BAF53A, INO80K	
ACTN2	Actinin, alpha 2	CMD1AA	
ACTR10	Actin-related protein 10 homolog (S. cerevisiae)	ACTR11, Arp11, HARP11	
ACTR2	ARP2 actin-related protein 2 homolog (yeast)	ARP2	
ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)	ARP11, ARP3BETA	
ACTR6	ARP6 actin-related protein 6 homolog (yeast)	CDA12, ARP6, HSPC281, MSTP136, hARP6, hARPX	
ACTRT1	Actin-related protein T1	RP1-203C2.1, AIP1, ARIP1, ARPT1, HSD27	
ACVR1B	Activin A receptor, type IB	ACTRIB, ACVRLK4, ALK4, SKR2	
ACVR1C	Activin A receptor, type IC	ACVRLK7, ALK7	
ACVR2A	Activin A receptor, type IIA	ACTRII, ACVR2	
ACVR2B	Activin A receptor, type IIB	ACTRIIB, ActR-IIB, HTX4	
ACVRL1	Activin A receptor type II-like 1	ACVRLK1, ALK-1, ALK1, HHT, HHT2, ORW2, SKR3, TSR-I	
ACYP1	Acylphosphatase 1, erythrocyte (common) type	ACYPE	
ADAL	Adenosine deaminase-like		
ADAM10	ADAM metallopeptidase domain 10	AD10, AD18, CD156c, HsT18717, MADM, RAK, kuz	
ADAM11	ADAM metallopeptidase domain 11	MDC	
ADAM12	ADAM metallopeptidase domain 12	RP11-295J3.3-OT1, CAR10, MCMP, MCMPMltna, MLTN, MLTNA, ADAM12	
ADAM15	ADAM metallopeptidase domain 15	RP11-540D14.1, MDC15	
ADAM18	ADAM metallopeptidase domain 18	UNQ858/PRO1867, ADAM27, tMDCIII	
ADAM19	ADAM metallopeptidase domain 19	FKSG34, MADDAM, MLTNB	
ADAM2	ADAM metallopeptidase domain 2	CRYN1, CRYN2, CT15, FYNB, PH-30b, PH30, PH30-beta	
ADAM23	ADAM metallopeptidase domain 23	MDC-3, MDC3	
ADAM28	ADAM metallopeptidase domain 28	ADAM 28, ADAM28, MDC-L, MDC-Lm, MDC-Ls, MDCL, eMDC II, eMDCII	
ADAM5P	ADAM metallopeptidase domain 5, pseudogene	ADAM5P, TMDCII	

ADAM7	ADAM metallopeptidase domain 7	ADAM 7, ADAM-7, EAPI, GP-83, GP83	
ADAM9	ADAM metallopeptidase domain 9	CORD9, MCMP, MDC9, Mltng	
ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif, 1	C3-C5, METH1	
ADAMTS13	ADAM metallopeptidase with thrombospondin type 1 motif, 13	UNQ6102/PRO20085, ADAM-TS13, ADAMTS-13, C9orf8, VWFCP, vWF-CP	
ADAMTS14	ADAM metallopeptidase with thrombospondin type 1 motif, 14	RP11-399N22.5	
ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif, 17		
ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18	ADAMTS21, KNO2, MMCAT	
ADAMTS19	ADAM metallopeptidase with thrombospondin type 1 motif, 19		
ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	ADAMTS-4	
ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5	ADAM-TS 11, ADAM-TS 5, ADAM-TS5, ADAMTS-11, ADAMTS-5, ADAMTS11, ADMP-2	
ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6	ADAM-TS 6, ADAM-TS6, ADAMTS-6	
ADAMTS8	ADAM metallopeptidase with thrombospondin type 1 motif, 8	ADAM-TS8, METH2	
ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9		
ADAMTSL1	ADAMTS-like 1	KIAA1346, RP11-220B22.2, ADAMTSL-1, ADAMTSR1, C9orf94, PUNCTIN	
ADAP2	ArfGAP with dual PH domains 2	CENTA2, HSA272195, cent-b	
ADAR	Adenosine deaminase, RNA-specific	DSRAD, G1P1, IFI4, K88DSRBP, P136, ADAR	
ADARB1	Adenosine deaminase, RNA-specific, B1	ADAR2, DRABA2, DRADA2, RED1	
ADAT2	Adenosine deaminase, tRNA-specific 2	hCG_18099, DEADC1, TAD2, dJ20N2, dJ20N2.1	
ADC			
ADCY1	Adenylate cyclase 1 (brain)	AC1, DFNB44	
ADCY2	Adenylate cyclase 2 (brain)		
ADCY6	Adenylate cyclase 6	AC6	
ADCY7	Adenylate cyclase 7	AC7	
ADCY9	Adenylate cyclase 9	AC9	
ADCYAP1	Adenylate cyclase activating polypeptide 1 (pituitary)		
ADD1	Adducin 1 (alpha)	RP11-520M5.1, ADDA	
ADD2	Adducin 2 (beta)	ADDB	
ADD3	Adducin 3 (gamma)	RP11-252O7.3, ADDL	
ADH1A	Alcohol dehydrogenase 1A (class I), alpha polypeptide	ADH1	
ADH1B	Alcohol dehydrogenase 1B (class I), beta polypeptide	ADH2, HEL-S-117	
ADH4	Alcohol dehydrogenase 4 (class II), pi polypeptide	ADH-2, HEL-S-4	
ADH5	Alcohol dehydrogenase 5 (class III), chi polypeptide	ADH-3, ADHX, FALDH, FDH, GSH-FDH, GSNOR	
ADHFE1	Alcohol dehydrogenase, iron containing, 1	HMFT2263, ADH8, HOT	

ADIPOQ	Adiponectin, C1Q and collagen domain containing	ACDC, ACRP30, ADIPOQTL1, ADPN, APM-1, APM1, GBP28	
ADIPOR2	Adiponectin receptor 2	ACDCR2, PAQR2	
ADK	Adenosine kinase	AK	
ADM	Adrenomedullin	AM, PAMP	
ADNP	Activity-dependent neuroprotector	ADNP1, MRD28	
ADO	2-aminoethanethiol (cysteamine) dioxygenase	C10orf22	
ADORA2A	Adenosine A2a receptor	A2aR, ADORA2, RDC8	
ADPGK	ADP-dependent glucokinase	PSEC0260, 2610017G09Rik, ADP-GK	
ADPRH	ADP-ribosylarginine hydrolase	ARH1	
ADRA2A	Adrenoceptor alpha 2A	ADRA2, ADRA2R, ADRAR, ALPHA2AAR, ZNF32	
ADRA2B	Adrenoceptor alpha 2B	ADRA2L1, ADRA2RL1, ADRARL1, ALPHA2BAR, alpha-2BAR	
ADRBK1	Adrenergic, beta, receptor kinase 1	BARK1, BETA-ARK1, GRK2	
ADRBK2	Adrenergic, beta, receptor kinase 2	BARK2, GRK3	
AES	Amino-terminal enhancer of split	AES-1-2, ESP1, GRG, GRG5, TLE5, AES	
AFAP1	Actin filament associated protein 1	AFAP, AFAP-11010, AFAP1	
AFARP1	Aldo-keto reductase family 7, member A2 pseudogene 1		
AFF1	AF4/FMR2 family, member 1	AF4, MLLT2, PBM1	
AFF2	AF4/FMR2 family, member 2	FMR2, FMR2P, FRAXE, MRX2, OX19	
AFF3	AF4/FMR2 family, member 3	LAF4, MLLT2-like	
AFF4	AF4/FMR2 family, member 4	HSPC092, AF5Q31, MCEF	
AFG3L1	AFG3-like AAA ATPase 1, pseudogene	AFG3, AFG3L1	
AFTPH	Aftiphilin	Nbla10388	
AGAP11	Ankyrin repeat and GTPase domain Arf GTPase-activating protein 11		
AGAP9	ArfGAP with GTPase domain, ankyrin repeat and PH domain 9	AGAP-9, CTGLF6, bA301J7.2	
AGBL3	ATP/GTP binding protein-like 3	CCP3	
AGBL4	ATP/GTP binding protein-like 4	RP11-342A17.1, CCP6	
AGBL5	ATP/GTP binding protein-like 5	CCP5	
AGFG1	ArfGAP with FG repeats 1	HRB, RAB, RIP	
AGFG2	ArfGAP with FG repeats 2	tcag7.884, HRBL, RABR	
AGGF1	Angiogenic factor with G patch and FHA domains 1	GPATC7, GPATCH7, HSU84971, HUS84971, VG5Q	
AGK	Acylglycerol kinase	CATC5, CTRCT38, MTDPS10, MULK	
AGL	Amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase	GDE	
AGPAT1	1-Acylglycerol-3-phosphate O-acyltransferase 1	DAAP-216M16.8, 1-AGPAT1, G15, LPAAT-alpha, LPAATA	

AGPAT3	1-Acylglycerol-3-phosphate O-acyltransferase 3	UNQ759/PRO1490, LPAAT-GAMMA1, LPAAT3	
AGPAT4	1-Acylglycerol-3-phosphate O-acyltransferase 4	RP3-473J16.2, 1-AGPAT4, LPAAT-delta, dJ473J16.2	
AGPAT5	1-Acylglycerol-3-phosphate O-acyltransferase 5	1AGPAT5, LPAATE	
AGPAT6	1-Acylglycerol-3-phosphate O-acyltransferase 6	UNQ551/PRO1108, 1-AGPAT 6, LPAAT-zeta,	
AGPAT9	1-Acylglycerol-3-phosphate O-acyltransferase 9	HMFN0639, AGPAT 10, AGPAT6, GPAT3, LPAAT-theta, MAG1	
AGPS	Alkylglycerone phosphate synthase	AAG5, ADAP-S, ADAS, ADHAPS, ADPS, ALDHPSY	
AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	ANHU, SERPINA8	
AGTPBP1	ATP/GTP binding protein 1	RP11-30C23.1, CCP1, NNA1	
AGTR1	Angiotensin II receptor, type 1	AG2SB, AT1, AT1AR, AT1B, AT1BR, AT1R, AT2R1,	
AGTRAP	Angiotensin II receptor-associated protein	RP11-56N19.3, ATRAP	
AGXT	Alanine-glyoxylate aminotransferase	AGT, AGT11, PH1, SPAT, SPT, TLH6, AGXT	
AHCTF1	AT hook containing transcription factor 1	MSTP108, ELYS, MST108, TMBS62	
AHCYL1	Adenosylhomocysteinase-like 1	DCAL, IRBIT, PPP1R78, PRO0233, XPVKONA	
AHNAK	AHNAK nucleoprotein	AHNAKRS	
AHR	Aryl hydrocarbon receptor	bHLHe76	
AHRR	Aryl-hydrocarbon receptor repressor	hCG_2044128, AHH, AHHR, bHLHe77	
AICDA	Activation-induced cytidine deaminase	AID, ARP2, CDA2, HEL-S-284, HIGM2	
AIDA	Axin interactor, dorsalization associated	RP11-378J18.7, C1orf80	
AIFM2	Apoptosis-inducing factor, mitochondrion-associated, 2	RP11-367H5.2, AMID, PRG3	
AIM1	Absent in melanoma 1	RP11-294H11.2, CRYBG1, ST4	
AIM1L	Absent in melanoma 1-like	RP11-569G9.5, CRYBG2	
AIPL1	Aryl hydrocarbon receptor interacting protein-like 1	AIPL2, LCA4	
AK3	Adenylate kinase 3	RP11-6J24.4L1, AK6, AKL3L, AKL3L1, FIX, AK3	
AK3L1	Adenylate kinase 4	RP4-686B20.1, AK 4, AK3, AK3L1, AK3L2	
AKAP11	A kinase (PRKA) anchor protein 11	AKAP-11, AKAP220, PPP1R44, PRKA11	
AKAP12	A kinase (PRKA) anchor protein 12	AKAP250, SSeCKS	
AKAP13	A kinase (PRKA) anchor protein 13	AKAP-13, AKAP-Lbc, ARHGEF13, BRX, HA-3, ht31,	
AKAP2	A kinase (PRKA) anchor protein 2	RP11-470J20.3, AKAP-2, AKAPKL, PRKA2	
AKAP4	A kinase (PRKA) anchor protein 4	RP13-377G1__B.1, AKAP 82, AKAP-4, AKAP82,	
AKAP5	A kinase (PRKA) anchor protein 5	AKAP75, AKAP79, H21	
AKAP6	A kinase (PRKA) anchor protein 6	ADAP100, ADAP6, AKAP100, PRKA6, mAKAP	
AKAP7	A kinase (PRKA) anchor protein 7	AKAP15, AKAP18	
AKAP9	A kinase (PRKA) anchor protein 9	AKAP-9, AKAP350, AKAP450, CG-NAP, HYPERION,	

AKD1	Adenylate kinase domain containing 1	AKD2, C6orf199, C6orf224, dJ70A9.1	
AKIRIN1	Akirin 1	RP11-781D11.2, C1orf108, STRF2	
AKIRIN2	Akirin 2	C6orf166, FBI1, dJ486L4.2	
AKNA	AT-hook transcription factor	RP11-82I1.4	
AKR1B15	Aldo-keto reductase family 1, member B15	tcag7.1260, AKR1B10L, AK1R1B7	
AKR1C2	Aldo-keto reductase family 1, member C2	AKR1C-pseudo, BABP, DD, DD2, DDH2, HAKRD, HBAB, MGDB2, SRXY8, TDD	
AKR1D1	Aldo-keto reductase family 1, member D1	3o5bred, CBAS2, SRD5B1	
AKR1E2	Aldo-keto reductase family 1, member E2	AKR1CL2, AKRDC1, LoopADR, hTSP, htAKR	
AKR7L	Aldo-keto reductase family 7-like	AFAR3, AFB1-AR3, AKR7A4	
AKT2	v-akt murine thymoma viral oncogene homolog 2	HIHGHH, PKBB, PKBBETA, PRKBB, RAC-BETA	√
AKT3	v-akt murine thymoma viral oncogene homolog 3	MPPH, MPPH2, PKB-GAMMA, PKBG, PRKBG, RAC-PK-gamma, RAC-gamma, STK-2	
ALB	Albumin	GIG20, PRO0883, PRO0903, PRO1341	
ALCAM	Activated leukocyte cell adhesion molecule	CD166, MEMD	
ALDH1A1	Aldehyde dehydrogenase 1 family, member A1	RP11-151D14.2, ALDC, ALDH-E1, ALDH1, ALDH11, HEL-9, HEL-S-53e, HEL12, PUMP1, RALDH1	
ALDH1A2	Aldehyde dehydrogenase 1 family, member A2	RALDH(II), RALDH2, RALDH2-T	
ALDH1A3	Aldehyde dehydrogenase 1 family, member A3	RP11-66B24.1, ALDH1A6, ALDH6, MCOP8, RALDH3	
ALDH1L1	Aldehyde dehydrogenase 1 family, member L1	10-FTHFDH, 10-fTHF, FDH, FTHFD	
ALDH1L2	Aldehyde dehydrogenase 1 family, member L2	mtFDH	
ALDH3A2	Aldehyde dehydrogenase 3 family, member A2	ALDH10, FALDH, SLS	
ALDH5A1	Aldehyde dehydrogenase 5 family, member A1	SSADH, SSDH	
ALDH9A1	Aldehyde dehydrogenase 9 family, member A1	ALDH4, ALDH7, ALDH9, E3, TMABADH	
ALG1	ALG1, chitobiosyldiphosphodolichol beta-mannosyltransferase	PSEC0001, CDG1K, HMAT1, HMT-1, HMT1, MT-1, Mat-1, hMat-1	
ALG10	ALG10, alpha-1,2-glucosyltransferase	ALG10A, DIE2, KCR1	
ALG10B	ALG10B, alpha-1,2-glucosyltransferase	ALG10, KCR1	
ALG11	ALG11, alpha-1,2-mannosyltransferase	RP11-248G5.6, CDG1P, GT8	
ALG13	ALG13, UDP-N-acetylglucosaminyltransferase subunit	RP1-296J18.2, CDG1S, CX6H45, GLT28D1, MDS031, TDRD12, YGL047W	
ALG2	ALG2, alpha-1,3/1,6-mannosyltransferase	RP11-13B9.1, CDGIi, NET38, hALPG2	
ALG6	ALG6, alpha-1,3-glucosyltransferase	My046, CDG1C	
ALG9	ALG9, alpha-1,2-mannosyltransferase	CDG1L, DIBD1, LOH11CR1J	
ALKBH4	AlkB, alkylation repair homolog 4 (*E. coli*)	ABH4	
ALKBH5	AlkB family member 5, RNA demethylase	ABH5, OFOXD, OFOXD1	
ALKBH8	AlkB, alkylation repair homolog 8 (*E. coli*)	ABH8	
ALMS1P	Alstrom syndrome 1 pseudogene		

ALOX5	Arachidonate 5-lipoxygenase	RP11-67C2.3, 5-LO, 5-LOX, 5LPG, LOG5	
ALPK1	Alpha-kinase 1	8430410J10Rik, LAK	
ALPK3	Alpha-kinase 3	MAK, MIDORI	
ALS2	Amyotrophic lateral sclerosis 2 (juvenile)	ALS2CR6, ALSJ, IAHSP, PLSJ	
ALS2CR12	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12		
ALS2CR4			
ALS2CR8			
AMAC1			
AMBRA1	Autophagy/beclin-1 regulator 1	DCAF3, WDR94	
AMD1	Adenosylmethionine decarboxylase 1	RP11-397G5.3, ADOMETDC, AMD, SAMDC	
AMFR	Autocrine motility factor receptor, E3	GP78, RNF45	
AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis	RP13-360B22.1, AMMERC1	
AMMECR1L	AMMECR1-like		
AMOT	Angiomotin		
AMOTL1	Angiomotin like 1	JEAP	
AMOTL2	Angiomotin like 2	LCCP	
AMPD3	Adenosine monophosphate deaminase 3		
AMT	Aminomethyltransferase	GCE, GCST, GCVT, NKH	
AMZ1	Archaelysin family metallopeptidase 1		
ANAPC16	Anaphase promoting complex subunit 16	APC16, C10orf104, CENP-27, MSAG, bA570G20.3	
ANGEL2	Angel homolog 2 (Drosophila)	Ccr4d, KIAA0759L	
ANGPT1	Angiopoietin 1	AGP1, AGPT, ANG1	
ANGPT2	Angiopoietin 2	AGPT2, ANG2	
ANGPTL1	Angiopoietin-like 1	PSEC0154, ANG3, ANGPT3, ARP1, Ang1, UNQ162, dJ505G2.2	
ANGPTL2	Angiopoietin-like 2	RP11-1M19.1, ARP2, HARP	
ANK1	Ankyrin 1, erythrocytic	ANK, SPH1, SPH2	
ANK2	Ankyrin 2, neuronal		
ANKAR	Ankyrin and armadillo repeat containing		
ANKFY1	Ankyrin repeat and FYVE domain containing 1	ANKHZN, BTBD23, ZFYVE14	
ANKH	ANKH inorganic pyrophosphate transport regulator	UNQ241/PRO274, ANK, CCAL2, CMDJ, CPPDD, HANK, MANK	
ANKIB1	Ankyrin repeat and IBR domain containing 1		
ANKLE1	Ankyrin repeat and LEM domain containing 1	ANKRD41, LEM3, LEMD6	
ANKLE2	Ankyrin repeat and LEM domain containing 2	KIAA0692, LEMD7, Lem4	

ANKMY1	Ankyrin repeat and MYND domain containing 1	ZMYND13	
ANKMY2	Ankyrin repeat and MYND domain containing 2	ZMYND20	
ANKRD1	Ankyrin repeat domain 1 (cardiac muscle)	ALRP, C-193, CARP, CVARP, MCARP, bA320F15.2	
ANKRD10	Ankyrin repeat domain 10	RP11-120J20.3	
ANKRD12	Ankyrin repeat domain 12	ANCO-2, ANCO1, GAC-1, Nbla00144	
ANKRD13A	Ankyrin repeat domain 13A	ANKRD13, NY-REN-25	
ANKRD13C	Ankyrin repeat domain 13C	RP4-677H15.5, dJ677H15.3	
ANKRD17	Ankyrin repeat domain 17	GTAR, NY-BR-16	
ANKRD18A	Ankyrin repeat domain 18A		
ANKRD20A2	Ankyrin repeat domain 20 family, member A2		
ANKRD20A3	Ankyrin repeat domain 20 family, member A3		
ANKRD20A5	Ankyrin repeat domain 20 family, member A5, pseudogene		
ANKRD20B	Ankyrin repeat domain 20B		
ANKRD22	Ankyrin repeat domain 22		
ANKRD26	Ankyrin repeat domain 26	THC2, bA145E8.1	
ANKRD27	Ankyrin repeat domain 27 (VPS9 domain)	PP12899, VARP	
ANKRD28	Ankyrin repeat domain 28	PITK, PPP1R65	
ANKRD30B	Ankyrin repeat domain 30B	NY-BR-1.1	
ANKRD32	Ankyrin repeat domain 32	BRCTD1, BRCTx	
ANKRD33	Ankyrin repeat domain 33	C12orf7, PANKY	
ANKRD34C	Ankyrin repeat domain 34C		
ANKRD36	Ankyrin repeat domain 36	UNQ2430/PRO499, UNQ2430	
ANKRD40	Ankyrin repeat domain 40		
ANKRD42	Ankyrin repeat domain 42	PPP1R79, SARP	
ANKRD43			
ANKRD44	Ankyrin repeat domain 44	PP6-ARS-B	
ANKRD5			
ANKRD50	Ankyrin repeat domain 50		
ANKRD52	Ankyrin repeat domain 52	UNQ5837, ANKRD33	
ANKRD53	Ankyrin repeat domain 53		
ANKRD62	Ankyrin repeat domain 62	DKFZp779B1634	
ANKRD7	Ankyrin repeat domain 7	TSA806	
ANKS1B	Ankyrin repeat and sterile alpha motif domain containing 1B	AIDA, AIDA-1, ANKS2, EB-1, EB1, cajalin-2	

ANKZF1	Ankyrin repeat and zinc finger domain	ZNF744	
ANO1	Anoctamin 1, calcium activated chloride channel	DOG1, ORAOV2, TAOS2, TMEM16A	
ANO4	Anoctamin 4	TMEM16D	
ANO5	Anoctamin 5	GDD1, LGMD2L, TMEM16E	
ANO6	Anoctamin 6	BDPLT7, SCTS, TMEM16F	
ANO7	Anoctamin 7	D-1MPP, DTMPP, IPCA-5, IPCA5, NGEP, PCANAP5, PCANAP5L, TMEM16G	
ANP32A	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	C15orf1, HPPCH, HPP2A, LANP, MAPM, PHAP1, PHAPI, PP32	
ANTXR1	Anthrax toxin receptor 1	ATR, GAPO, TEM8	
ANTXR2	Anthrax toxin receptor 2	CMG-2, CMG2, HFS, ISH, JHF	
ANUBL1			
ANXA10	Annexin A10	ANX14	
ANXA11	Annexin A11	RP11-369J21.10-010, ANX11, CAP50	
ANXA4	Annexin A4	ANX4, HEL-S-274, PIG28, ZAP36	
ANXA6	Annexin A6	ANX6, CBP68	
ANXA7	Annexin A7	RP11-537A6.8, ANX7, SNX, SYNEXIN	
AP1AR	Adaptor-related protein complex 1	PRO0971, 2C18, C4orf16, GBAR, gamma-BAR	
AP1B1	Adaptor-related protein complex 1, beta 1	ADTB1, AP105A, BAM22, CLAPB2	
AP1G1	Adaptor-related protein complex 1, gamma 1	ADTG, CLAPG1	
AP1S2	Adaptor-related protein complex 1, sigma 2	DC22, MGC.1902, MRX59, MRX321, MRX35, MRXSF, PGS, SIGMA1B	
AP1S3	Adaptor-related protein complex 1, sigma 3		
AP3D1	Adaptor-related protein complex 3, delta 1	PRO0039, ADTD, hBLVR	
AP3M1	Adaptor-related protein complex 3, mu 1	RP11-178G16.4	
AP3M2	Adaptor-related protein complex 3, mu 2	AP47B, CLA20, P47B	
AP3S2	Adaptor-related protein complex 3, sigma 2	AP3S3, sigma3b	
AP4B1	Adaptor-related protein complex 4, beta 1	RP5-1073O3.4, BETA-4, CPSQ5, SPG47	
AP4E1	Adaptor-related protein complex 4, epsilon 1	CPSQ4, SPG51	
AP4S1	Adaptor-related protein complex 4, sigma 1	AP47B, CLA20, CLAPS4, CPSQ6, SPG52	
APBA1	Amyloid beta (A4) precursor protein-binding, family A, member 1	D9S411E, LIN10, MINT1, X11, X11A, X11ALPHA	
APBB1IP	Amyloid beta (A4) precursor protein-binding, family B, member 1 interacting	RP11-128B16.1, INAG1, PREL1, RARP1, RIAM	
APBB2	Amyloid beta (A4) precursor protein-binding, family B, member 2	FE65L, FE65L1	
APC	Adenomatous polyposis coli	BTPS2, DP2, DP2.5, DP3, GS, PPP1R46	√
APCDD1L	Adenomatosis polyposis coli down-regulated 1 like	RP4-685L9.2	
APEH	Acylaminoacyl-peptide hydrolase	AAKE, ACPH, APH, D3F15S2, D3S48E, DNF15S2, OPH	

APH1B	APH1B gamma secretase subunit	UNQ088/PRO1528, APH-1B, PRO1528, PSFL, TA-AY688	
API5	Apoptosis inhibitor 5	MIG8, AAC-11, AAC11	
APITD1	Apoptosis-inducing, TAF9-like domain 1	CENP-S, CENPS, FAAP16, MHF1	
APLF	Aprataxin and PNKP like factor	APFL, C2orf13, PALF, Xip1, ZCCHH1	
APLN	Apelin	UNQ471, APEL, XNPEP2	
APLP2	Amyloid beta (A4) precursor-like protein 2	APLP-2, APPH, APPL2, CDEBP	
APOBEC1	Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-1	APOBEC-1, BEDP, CDAR1, HEPR	
APOBEC2	Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2	ARCD1, ARP1	
APOF	Apolipoprotein F	Apo-F, LTIP	
APOL6	Apolipoprotein L, 6	UNQ3095/PRO21341, APOL-VI, APOLVI	
APOLD1	Apolipoprotein L domain containing 1	VERGE	
APOO	Apolipoprotein O	My025, FAM121B	
APPBP2	Amyloid beta precursor protein (cytoplasmic tail) binding protein 2	APP-BP2, HS.84084, PAT1	
APPL2	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper	DIP13B	
AQP1	Aquaporin 1 (Colton blood group)	AQP-CHIP, CHIP28, CO	
AQP10	Aquaporin 10	AQPA_HUMAN	
AQP2	Aquaporin 2 (collecting duct)	AQP-CD, WCH-CD	
AQP3	Aquaporin 3 (Gill blood group)	AQP-3, GIL	
AQP4	Aquaporin 4	HMIWC2, MIWC	
AQP8	Aquaporin 8	AQP-8	
AQP9	Aquaporin 9	AQP-9, HsT17287, SSC1	
ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	CENTD1, PARX	
ARAP3	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3	CENTD3, DRAG1	
ARF3	ADP-ribosylation factor 3		
ARF6	ADP-ribosylation factor6		
ARFGAP3	ADP-ribosylation factor GTPase activating protein 3	AL049757.1, ARFGAP1	
ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)	ARFGEP1, BIG1, P200	
ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	BIG2, PVNH2, dJ1164I10.1	
ARFIP1	ADP-ribosylation factor interacting protein 1	ADP-ribosylation factor interacting protein 1	
ARFRP1	ADP-ribosylation factor related protein 1	RP4-583P15.1, ARL18, ARP, Arp1	
ARG2	Arginase 2		
ARGFX	Arginine-fifty homeobox		
ARHGAP10	Rho GTPase activating protein 10	GRAF2, PS-GAP, PSGAP	

ARHGAP11A	Rho GTPase activating protein 11A	RP11-1000B6.5, GAP (1-12)	
ARHGAP11B	Rho GTPase activating protein 11B	B'-T, FAM7B1	
ARHGAP12	Rho GTPase activating protein 12		
ARHGAP17	Rho GTPase activating protein 17	hCG_1984576, MST066, MST110, MSTP038, MSTP066, MSTP110, NADRIN, PP367, PP4534, RICH	
ARHGAP18	Rho GTPase activating protein 18	MacGAP, SENEX, bA307O14.2	
ARHGAP19	Rho GTPase activating protein 19		
ARHGAP20	Rho GTPase activating protein 20	RARHOGAP	
ARHGAP25	Rho GTPase activating protein 25	HEL-S-308, KAIA0053	
ARHGAP26	Rho GTPase activating protein 26	GRAF, GRAF1, OPHN1L, OPHN1L1	
ARHGAP29	Rho GTPase activating protein 29	RP11-255E17.1, PARG1	
ARHGAP32	Rho GTPase activating protein 32	GC-GAP, GRIT, PX-RICS, RICS, p200RhoGAP, p250GAP	
ARHGAP5	Rho GTPase activating protein 5	GFI2, RhoGAP5, p190-B, p190BRhoGAP	
ARHGAP6	Rho GTPase activating protein 6	RHOGAP6, RHOGAPX-1	
ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12	LARG, PRO2792	√
ARHGEF15	Rho guanine nucleotide exchange factor (GEF) 15	ARGEF15, E5, Ephexin5, Vsm-RhoGEF	
ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17	P164RHOGEF, TEM4, p164-RhoGEF	
ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2	RP11-336K24.3, GEF, GEF-H1, GEFH1, LFP40, P40	
ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3	GEF3, STA3, XPLN	
ARHGEF33	Rho guanine nucleotide exchange factor (GEF) 33		
ARHGEF37	Rho guanine nucleotide exchange factor (GEF) 37		
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	RP11-494P5.1, BETA-PIX, COOL-1, COOL1, Nbla10314, P50, P50BP, P85, P85COOL1, P85SPR	
ARHGEF9	Cdc42 guanine nucleotide exchange factor (GEF) 9	RP11-337C3.4, COLLYBISTIN, EIEE8, hPEM-2, PEM-2, PEM2	
ARID1B	AT rich interactive domain 1B (SWI1-like)	RP11-419L10.1, 6A3-5, BAF250B, BRIGHT, DAN15, ELD/OSA1, MRD12, OSA2, P250R	
ARID2	AT rich interactive domain 2 (ARID, RFX-like)	BAF200, p200	√
ARID3A	AT rich interactive domain 3A (BRIGHT-like)	BRIGHT, DRIL1, DRIL3, E2FBP1	
ARID3B	AT rich interactive domain 3B (BRIGHT-like)	BDP, DRIL2	
ARID4B	AT rich interactive domain 4B (RBP1-like)	RP11-382D8.2, BCAA, BRCAA1, RBBP1L1, RBP1L1, SAP180	
ARID5B	AT rich interactive domain 5B (MRF1-like)	RP11-341A19.1, DESRT, MRF-2, MRF2	
ARIH1	Ariadne RBR E3 ubiquitin protein ligase 1	HUSSY-27, ARI, HARI, HHARI, UBCH7BP	
ARIH2	Ariadne RBR E3 ubiquitin protein ligase 2	HT005, ARI2, TRIAD1	
ARL1	ADP-ribosylation factor-like 1	ARFL1	
ARL10	ADP-ribosylation factor-like 10	Arl10a, Arm1	
ARL11	ADP-ribosylation factor-like 11	RP11-432M24.1, ARLTS1	

ARL17A	ADP-ribosylation factor-like 17A	RP11-927P21.1, ARF1P2, ARL17P1	
ARL2BP	ADP-ribosylation factor-like 2 binding protein	BART, BART1, RP66	
ARL3	ADP-ribosylation factor-like 3	RP11-47A8.3, ARFL3	
ARL4A	ADP-ribosylation factor-like 4A	ARL4	
ARL4C	ADP-ribosylation factor-like 4C	ARL7, LAK	
ARL4D	ADP-ribosylation factor-like 4D	ARF4L, ARL6	
ARL5A	ADP-ribosylation factor-like 5A	ARFLP5, ARL5	
ARL5B	ADP-ribosylation factor-like 5B	ARL8	
ARL6	ADP-ribosylation factor-like 6	BBS3, RP55	
ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1	AIP1, ARL6IP, ARMER, SPG61	
ARL6IP5	ADP-ribosylation factor-like 6 interacting protein 5	HSPC127, DERP11, GTRAP3-18, JWA, PRAF3,	
ARL6IP6	ADP-ribosylation factor-like 6 interacting protein 6	AIP-6, PFAAP1	
ARL8B	ADP-ribosylation factor-like 8B	ARL10C, Gie1	
ARMC1	Armadillo repeat containing 1	Arcp	
ARMC10	Armadillo repeat containing 10	PSEC0198, PNAS-112, PNAS112, SVH	
ARMC4	Armadillo repeat containing 4	RP11-691I13.1, CILD23	
ARMC8	Armadillo repeat containing 8	S863-2, GID5, HSPC056, VID28	
ARMC9	Armadillo repeat containing 9	ARM, KU-MEL-1, NS21	
ARMCX2	Armadillo repeat containing, X-linked 2	GHc-602D8.1, ALEX2, GASP9	
ARMCX3	Armadillo repeat containing, X-linked 3	RP4-545K15.2, ALEX3, GASP6, dJ545K15.2	
ARMCX4	Armadillo repeat containing, X-linked 4	LL0XNC01-209G1.1, CXorf35, GASP4	
ARNT	Aryl hydrocarbon receptor nuclear translocator	HIF-1-beta, HIF-1beta, HIF1-beta, HIF1B, HIF1BETA, TANGO, bHLHe2	√
ARNT2	Aryl-hydrocarbon receptor nuclear translocator 2	WEDAS, bHLHe1	
ARNTL	Aryl hydrocarbon receptor nuclear translocator-like	BMAL1, BMAL1c, JAP3, MOP3, PASD3, TIC, bHLHe5	
ARPC1A	Actin related protein 2/3 complex, subunit 1A, 41 kDa	Arc40, HEL-68, SOP2Hs, SOP2L	
ARPC1B	Actin related protein 2/3 complex, subunit 1B, 41 kDa	ARC41, p40-ARC, p41-ARC	
ARPP21	CAMP-regulated phosphoprotein, 21 kDa	ARPP-21, R3HDM3, RCS, TARPP	
ARRB1	Arrestin, beta 1	ARB1, ARR1	
ARRB2	Arrestin, beta 2	ARB2, ARR2, BARR2	
ARRDC3	Arrestin domain containing 3	TLIMP	
ARRDC4	Arrestin domain containing 4		
ARRDC5	Arrestin domain containing 5	1700013E09Rik	
ARSB	Arylsulfatase B	ASB, G4S, MPS6	

ARSD	Arylsulfatase D	ASD	
ARSJ	Arylsulfatase family, member J	UNQ372/PRO708	
ARSK	Arylsulfatase family, member K	UNQ630/PRO1246, TSULF	
ART5	ADP-ribosyltransferase 5	UNQ575/PRO1137, ARTC5	
ARV1	ARV1 homolog *(S. cerevisiae)*	RP11-423F24.1	
ASAH2	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2	BCDase, HNAC1, LCDase, N-CDase, NCDase	
ASAP2	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2	AMAP2, CENTB3, DDEF2, PAG3, PAP, Pap-alpha, SHAG1	
ASAP3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3	ACAP4, CENTB6, DDEFL1, UPLC1	
ASB1	Ankyrin repeat and SOCS box containing 1	ASB-1	
ASB15	Ankyrin repeat and SOCS box containing 15		
ASB2	Ankyrin repeat and SOCS box containing 2	ASB-2	
ASB3	Ankyrin repeat and SOCS box containing 3	ASB-3	
ASB5	Ankyrin repeat and SOCS box containing 5	ASB-5	
ASB7	Ankyrin repeat and SOCS box containing 7		
ASB8	Ankyrin repeat and SOCS box containing 8	PP14212	
ASCC1	Activating signal cointegrator 1 complex subunit 1	CGI-18, ASC1p50, p50	
ASCC3	Activating signal cointegrator 1 complex subunit 3	RP1-121G13.4, ASC1p200, HELIC1, RNAH	
ASF1B	Anti-silencing function 1B histone chaperone	CIA-II	
ASFMR1	FMR1 antisense RNA 1	FMR4; ASFMR1; FMR1AS; FMR1-AS	
ASL	Argininosuccinate lyase	ASAL	
ASPH	Aspartate beta-hydroxylase	AAH, BAH, CASQ2BP1, FDLAB, HAAH, JCTN, junctin	
ASPHD1	Aspartate beta-hydroxylase domain containing 1		
ASPN	Asporin	RP11-77D6.3, OS3, PLAP-1, PLAP1, SLRR1C	
ASRGL1	Asparaginase like 1	ALP, ALP1, CRASH	
ASTN1	Astrotactin 1	ASTN	
ASXL2	Additional sex combs like transcriptional regulator 2	ASXH2	
ATAD2B	ATPase family, AAA domain containing 2B		
ATAD3C	ATPase family, AAA domain containing 3C	RP4-628J24.1	
ATF1	ATPase family, AAA domain containing 3C	Activating transcription factor 1	√
ATF2	Activating transcription factor 2	CRE-BP1, CREB-2, CREB2, HB16, TREB7	
ATF6	Activating transcription factor 6	ATF6A	
ATF7	Activating transcription factor 7	ATFA	
ATF7IP2	Activating transcription factor 7 interacting protein 2	MCAF2	

ATG10	Autophagy related 10	PP12616, APG10, APG10L, pp12616	
ATG16L1	Autophagy related 16-like 1	hCG_1817841, APG16L, ATG16A, ATG16L, IBD10, WDR30	
ATG2B	Autophagy related 2B	C14orf103	
ATG4B	Autophagy related 4B, cysteine peptidase	APG4B, AUTL1	
ATG5	Autophagy related 5	APG5, APG5-LIKE, APG5L, ASP, hAPG5	
ATG7	Autophagy related 7	APG7-LIKE, APG7L, GSA7	
ATL1	Atlastin GTPase 1	AD-FSP, FSP1, GBP3, HSN1D, SPG3, SPG3A, atlastin1	
ATL2	Atlastin GTPase 2	ARL3IP2, ARL6IP2, atlastin2	
ATM	ATM serine/threonine kinase	AT1, ATA, ATC, ATD, ATDC, ATE, TEL1, TELO1	√
ATMIN	ATM interactor	ASCIZ, ZNF822	
ATP10B	ATPase, class V, type 10B	ATPVB	
ATP10D	ATPase, class V, type 10D	ATPVD	
ATP11A	ATPase, class VI, type 11A	RP11-120K24.1, ATPIH, ATPIS	
ATP11B	ATPase, class VI, type 11B	ATPIF, ATPIR	
ATP11C	ATPase, class VI, type 11C	RP11-197K18.1, ATPIG, ATPIQ	
ATP13A2	ATPase type 13A2	RP1-37C10.4, CLN12, HSA9947, KRPPD, PARK9	
ATP13A3	ATPase type 13A3	AFURS1	
ATP1A2	ATPase, Na^+/K^+ transporting, alpha 2	RP11-536C5.4, FHM2, MHP2	
ATP1A4	ATPase, Na^+/K^+ transporting, alpha 4	RP11-536C5.5, ATP1A1, ATP1AL2	
ATP1B1	ATPase, Na^+/K^+ transporting, beta 1	ATP1B	
ATP1B2	ATPase, Na^+/K^+ transporting, beta 2 polypeptide	AMOG	
ATP2A2	ATPase, Ca^{++} transporting, cardiac muscle,	ATP2B, DAR, DD, SERCA2	
ATP2B1	ATPase, Ca^{++} transporting, plasma	PMCA1, PMCA1kb	
ATP2B2	ATPase, Ca^{++} transporting, plasma	PMCA2, PMCA2a, PMCA2i	
ATP2B3	ATPase, Ca^{++} transporting, plasma	CFAP39, CLA2, OPCA, PMCA3, PMCA3a, SCAX1	√
ATP2B4	ATPase, Ca^{++} transporting, plasma	ATP2B2, MXRA1, PMCA4, PMCA4b, PMCA4x	
ATP4B	ATPase, H^+/K^+ exchanging, beta polypeptide	RP11-230F18.4, ATP6B	
ATP5F1	ATP synthase, H^+ transporting,	RP11-552M11.5, PIG47	
ATP5G3	ATP synthase, H^+ transporting,	P3	
ATP5SL	ATP5S-like		
ATP6AP1	ATPase, H^+ transporting, lysosomal	XX-FW8536B9.4, 16A, ATP6IP1, ATP6S1, Ac45, CF2, YATP8S1, YAP-3, YAP3	
ATP6AP2	ATPase, H^+ transporting, lysosomal	1H1028, AP1M8-9, ATP6IP2, ATP6M8-9, ELDF10, M8-9, MRXF, MRXSH, MSTP009, PRR, RENR, XMRF, A2, ARCL, ARCL2A, MSTP002, ATP6N1D, J6B7, RTF,	
ATP6V0A2	ATPase, H^+ transporting, lysosomal V0	STV1, TJC, TJCM, TJCS, VPH1, WSS	

ATP6V0D2	ATPase, H^+ transporting, lysosomal 38 kDa,	ATP6D2, VMA6	
ATP6V0E1	ATPase, H^+ transporting, lysosomal 9 kDa,	ATP6H, ATP6V0E, M9.2, Vma21, Vma21p	
ATP6V1A	ATPase, H^+ transporting, lysosomal 70 kDa,	ATP6A11, HO68, VA68, VPP2, Vma1, ATP6V1A	
ATP6V1C2	ATPase, H^+ transporting, lysosomal 42 kDa,	ATP6C2, VMA5	
ATP6V1E1	ATPase, H^+ transporting, lysosomal 31 kDa,	ATP6E, ATP6E2, ATP6V1E, P31, Vma4	
ATP6V1G2	ATPase, H^+ transporting, lysosomal 13 kDa,	DADB-26I14.6, ATP6G, ATP6G2, NG38, VMA10	
ATP6V1H	ATPase, H^+ transporting, lysosomal 50/57	CGI-11, MSTP042, NBP1, SFD, SFDalpha, SFDbeta, VMA13	
ATP7A	ATPase, Cu^{++} transporting, alpha	RP3-465G10.1, DSMAX, MK, MNK, SMAX3	
ATP7B	ATPase, Cu^{++} transporting, beta polypeptide	RP11-327P2.1, PWD, WC1, WD, WND	
ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	ATPASEII, ATPIA, ATPP2	
ATP8A2	ATPase, aminophospholipid transporter, class I, type 8A, member 2	RP11-141F12.1, ATP, ATPIB, CAMRQ4, IB, ML-1	
ATP8B1	ATPase, aminophospholipid transporter, class I, type 8B, member 1	ATPIC, BRIC, FIC1, ICP1, PFIC, PFIC1	
ATP8B2	ATPase, aminophospholipid transporter, class I, type 8B, member 2	RP11-350G8.2, ATPID	
ATP8B4	ATPase, class I, type 8B, member 4	ATPIM	
ATP9B	ATPase, class II, type 9B	HUSSY-20, ATPASEP, ATPIIB, NEO1L, hMMR1	
ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1	ATP11, ATP11p	
ATPAF2	ATP synthase mitochondrial F1 complex assembly factor 2	LP3663, ATP12, ATP12p, MC5DN1	
ATPBD4			
ATRN	Attractin	DPPT-L, MGCA	
ATRNL1	Attractin-like 1	ALP, bA338L11.1, bA454H24.1	
ATRX	Alpha thalassemia/mental retardation syndrome X-linked	RP5-875J14.1, ATR2, JM3, MRXHF1, RAD54, RAD54L, SFM1, SHS, XH2, XNP, ZNF-HX	√
ATXN1	Ataxin 1	ATX1, D6S504E, SCA1	
ATXN10	Ataxin 10	RP1-37M3.7, E46L, HUMEEP, SCA10	
ATXN1L	Ataxin 1-like	hCG_1646491, BOAT, BOAT1	
ATXN2	Ataxin 2	ASL13, ATX2, SCA2, TNRC13	
ATXN3	Ataxin 3	RP11-529H20.5, AT3, ATX3, JOS, MJD, MJD1, SCA3	
ATXN7	Ataxin 7	ADCAII, OPCA3, SCA7	
ATXN7L1	Ataxin 7-like 1	tcag7.1150, ATXN7L4	
ATXN7L3B	Ataxin 7-like 3B		
ATXN8OS	ATXN8 opposite strand (non-protein coding)	KLHL1AS, NCRNA00003, SCA8	
AUH	AU RNA binding protein/enoyl-CoA hydratase		
AUTS2	Autism susceptibility candidate 2	FBRSL2, MRD26	
AVL9	AVL9 homolog *(S. cerevisiase)*	KIAA0241	

AXL	AXL receptor tyrosine kinase	JTK11, UFO	
AZI2	5-Azacytidine induced 2	AZ2, NAP1, TILP	
AZIN1	Antizyme inhibitor	AZI, AZIA1, OAZI, OAZIN, ODC1L	
B2M	Beta-2-microglobulin	CDABP0092	
B3GALNT2	Beta-1,3-N-acetylgalactosaminyltransferase 2	B3GalNAc-T2, MDDGA11	
B3GALT1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1	beta3Gal-T1	
B3GALT2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	BETA3GALT2, GLCT2, beta3Gal-T2	
B3GALT5	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5	B3GalT-V, B3GalTx, B3T5, GLCT5, beta-1,3-GalTase 5, beta-3-Gx-T5, beta3GalT5	
B3GALTL	Beta 1,3-galactosyltransferase-like	RP11-307C1.1, B3GLCT, B3GTL, B3Glc-T, Gal-T, beta3Glc-T	
B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	B3GN-T5, beta3Gn-T5	
B3GNT6	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6	B3Gn-T6, BGnT-6, beta-1,3-Gn-T6, beta3Gn-T6	
B3GNT9	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9	UNQ1922/PRO4397	
B4GALT1	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1	B4GAL-T1, CDG2D, GGTB2, GT1, GTB, beta4Gal-T1	
B4GALT2	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2	B4Gal-T2, B4Gal-T3, beta4Gal-T2	
B4GALT4	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4	UNQ552/PRO1109, B4Gal-T4, beta4Gal-T4	
B4GALT5	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5	RP5-1065B2.1, B4Gal-T5, BETA4-GALT-IV, beta4Gal-T5, beta4GalT-V, gt-V	
B4GALT6	Xylosylprotein beta 1,4-galactosyltransferase, polypeptide 6	B4Gal-T6, beta4Gal-T6	
B4GALT7	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 7	UNQ748/PRO1478, EDSP1, XGALT1, XGPT1	
BAAT	Bile acid CoA:amino acid N-acyltransferase	BACAT, BAT	
BACE2	Beta-site APP-cleaving enzyme 2	CDA13, AEPEC, ALP56, ASP1, ASP21, BAE2, CEAP1, DRA	
BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1	BACH-1, BTBD24	
BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	RP11-63K6.2, BTBD25	
BAG2	BCL2-associated athanogene 2	RP3-496N17.2, BAG-2, dJ417I1.2	
BAG4	BCL2-associated athanogene 4	BAG-4, SODD	
BAG5	BCL2-associated athanogene 5	BAG-5	
BAGE2	B melanoma antigen family, member 2	CT2.2	
BAGE5	B melanoma antigen family, member 5	CT2.5	
BAI3	Brain-specific angiogenesis inhibitor 3		
BAIAP2	BAI1-associated protein 2	BAP2, FLAF3, IRSP53	
BAMBI	BMP and activin membrane-bound inhibitor	NMA	
BANK1	B-cell scaffold protein with ankyrin repeats 1	BANK	
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	hucep-6, HUCEP-13, UCHL2	√
BASE			

BAT1			
BAT2			
BAT2L2			
BAT5			
BAX	BCL2-associated X protein	BCL2L4	
BAZ1A	Bromodomain adjacent to zinc finger domain, 1A	HSPC317, ACF1, WALp1, WCRF180, hACF1	
BAZ1B	Bromodomain adjacent to zinc finger domain, 1B	WBSCR10, WBSCR9, WSTF	
BAZ2A	Bromodomain adjacent to zinc finger domain, 2A	TIP5, WALp3	
BAZ2B	Bromodomain adjacent to zinc finger domain, 2B	WALp4	
BBOX1	Butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine	BBH, BBOX, G-BBH, gamma-BBH	
BBS12	Bardet-Biedl syndrome 12	C4orf24	
BBS2	Bardet-Biedl syndrome 2	BBS	
BBS4	Bardet-Biedl syndrome 4		
BBS7	Bardet-Biedl syndrome 7	BBS2L1	
BBS9	Bardet-Biedl syndrome 9	B1, C18, D1, PTHB1	
BBX	Bobby sox homolog (Drosophila)	ARTC1, HBP2, HSPC339, MDS001	
BC036928			
BCAM	Basal cell adhesion molecule (Lutheran blood group)	AU, CD239, LU, MSK19	
BCAP29	B-cell receptor-associated protein 29	BAP29	
BCAR3	Breast cancer anti-estrogen resistance 3	RP5-1033H22.1, NSP2, SH2D3B	
BCAS1	Breast carcinoma amplified sequence 1	AIBC1, NABC1	
BCAS4	Breast carcinoma amplified sequence 4	RP5-1071L10.2, CNOL	
BCAT1	Branched chain amino-acid transaminase 1, cytosolic	RP11-625L10.4, BCATC, BCT1, ECA39, MECA39, PNAS131, PP18	
BCAT2	Branched chain amino-acid transaminase 2, mitochondrial	BCAM, BCATM, BCT2, PP18	
BCHE	Butyrylcholinesterase	CHE1, CHE2, E1	
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	BCL11A-L-3, BCL11A-XL,BCL11a-M, CTIP1, EVI9, HBFQTL5, ZNF856, BCL11A	√
BCL2	B-cell CLL/lymphoma 2	Bcl-2, PPP1R50	√
BCL2L11	BCL2-like 11 (apoptosis facilitator)	BAM, BIM, BOD	
BCL2L15	BCL2-like 15	Bfk, C1orf178	
BCL2L2	BCL2-like 2	BCL-W, BCL2-L-2, BCLW, PPP1R51	
BCL6	B-cell CLL/lymphoma 6	BCL5A, LAZ3, ZBTB27, ZNF51,BCL6	√
BCL6B	B-cell CLL/lymphoma 6, member B	BAZF, ZBTB28, ZNF62	
BCL7A	B-cell CLL/lymphoma 7A	BCL7	√

BCL9	B-cell CLL/lymphoma 9	LGS	√
BCLAF1	BCL2-associated transcription factor 1	BTF, bK211L9.1	
BCO2	Beta-carotene oxygenase 2	B-DIOX-II, BCDO2	
BCOR	BCL6 corepressor	ANOP2, MAA2, MCOPS2	√
BCR	Breakpoint cluster region	ALL1, CML, D22S11, D22S662, PHL, BC	√
BDH1	3-hydroxybutyrate dehydrogenase, type 1	BDH, SDR9C1	
BDKRB2	Bradykinin receptor B2	B2R, BK-2, BK2, BKR2, BRB2	
BDNFOS	BDNF antisense RNA	BDNF, BDNFOS, BDNF-AS1, ANTI-BDNF, NGRNA990402	
BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor	HSA238320, TAF3B1, TFC5, TFIIIB", TFIIIB150, TFIIIB90, TFNR	
BEND3	BEN domain containing 3	RP11-59I9.2, KIAA1553	
BEND4	BEN domain containing 4	CCDC4	
BEND6	BEN domain containing 6	RP11-203B9.5, C6orf65, bA203B9.1	
BEND7	BEN domain containing 7	C10orf30	
BEST4	Bestrophin 4	RP11-269F19.5, VMD2L2	
BET1	Bet1 golgi vesicular membrane trafficking protein	HBET1	
BET1L	Bet1 golgi vesicular membrane trafficking protein-like	BET1L1, GOLIM3, GS15, HSPC197	
BEX2	Brain expressed X-linked 2	RP1-79P11.1, BEX1, DJ79P11.1	
BEX4	Brain expressed, X-linked 4	RP4-635G19.2, BEXL1	
BEYLA			
BHLHE22	Basic helix-loop-helix family, member e22	BHLHB5, Beta3, CAGL85, TNRC20	
BHLHE40	Basic helix-loop-helix family, member e40	BHLHB2, DEC1, HLHB2, SHARP-2, STRA13, Stra14	
BHMT2	Betaine--homocysteine S-methyltransferase 2		
BICD2	Bicaudal D homolog 2 (Drosophila)	RP11-476B13.3, SMALED2, bA526D8.1	
BID	BH3 interacting domain death agonist	FP497	
BIRC5	Baculoviral IAP repeat containing 5	API4, EPR-1	
BIRC6	Baculoviral IAP repeat containing 6	APOLLON, BRUCE	
BIVM	Basic, immunoglobulin-like variable motif containing	RP11-484I6.1	
BLCAP	Bladder cancer associated protein	RP11-425M5.2, BC10	
BLOC1S2	Biogenesis of lysosomal organelles complex-1, subunit 2	RP11-316M21.4, BLOS2, CEAP, CEAP11	
BLZF1	Basic leucine zipper nuclear factor 1	RP1-206D15.1, GOLGIN-45, JEM-1, JEM-1s, JEM1	
BMF	Bcl2 modifying factor		
BMP1	Bone morphogenetic protein 1	OI13, PCOLC, PCP, PCP2, TLD	
BMP2	Bone morphogenetic protein 2	BDA2A,BMP2	

BMP3	Bone morphogenetic protein 3	BMP-3A	
BMP7	Bone morphogenetic protein	RP11-560A15.5, OP-1	
BMP8A	Bone morphogenetic protein 8a		
BMP8B	Bone morphogenetic protein 8b	BMP8, OP2	
BMPER	BMP binding endothelial regulator	CRIM3, CV-2, CV2	
BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase)	BMPR-II, BMPR3, BMR2, BRK-3, POVD1, PPH1, T-ALK	
BMS1	BMS1 ribosome biogenesis factor	AL022344.1, ACCL, BMS1	
BNC2	Basonuclin 2	RP11-183I6.1, BSN2	
BNIP2	BCL2/adenovirus E1B 19 kDa interacting protein 2	BNIP-2, NIP2	
BNIPL	BCL2/adenovirus E1B 19kD interacting protein like	RP11-316M1.7, BNIP-3-1,BNIPL-2, BNIPL1, BNIPL2, BNIPS, PP752, RNIPL	
BOD1	Biorientation of chromosomes in cell division 1	FAM44B	
BOD1L	Biorientation of chromosomes in cell division 1-like 1	BOD1L, FAM44A	
BOK	BCL2-related ovarian killer	BCL2L9L, BOK	
BOLL	Boule-like RNA-binding protein	BOULE	
BPESC1	Blepharophimosis, epicanthus inversus and ptosis, candidate 1 (non-protein coding)	NCRNA00187	
BPIL2	BPI fold containing family C	RP1-149A16.10-011, BPIL2	
BPNT1	3'(2'), 5'-Bisphosphate nucleotidase 1	HEL20, PIP	
BPTF	Bromodomain PHD finger transcription factor	FAC1, FALZ, NURF301	
BPY2	Basic charge, Y-linked, 2	BPY2A, VCY2, VCY2A	
BRAP	BRCA1 associated protein	BRAP2, IMP, RNF52	
BRCA1	Breast cancer 1, early onset	CAI, BRCC1, BROVCA1, IRIS, PNCA4, PPP1R53, PSCP, RNF53	√
BRCC3	BRCA1/BRCA2-containing complex, subunit 3	RP11-143H17.26, C6.1A, CXorf53,BRCC3	
BRD1	Bromodomain containing 1	RP3-522J7.4, BRL, BRPF1, BRPF2	
BRDT	Bromodomain, testis-specific	BRD6, CT9	
BRE	Bromodomain, testis-specific	BRD6, CT9	
BRMS1L	Breast cancer metastasis-suppressor 1-like	BRMS1	
BRPF3	Bromodomain and PHD finger containing, 3	RP3-524E15.1	
BRWD1	Bromodomain and WD repeat domain containing 1	C21orf107, N143, WDR9	
BSDC1	BSD domain containing 1	RP4-811H24.7	
BSN	Bassoon presynaptic cytomatrix protein	ZNF231	
BSPRY	B-box and SPRY domain containing		
BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170 kDa	MOT1, TAF(II)170, TAF172, TAFII170	
BTBD10	BTB (POZ) domain containing 10	GMRP-1, GMRP1	

BTBD11	BTB (POZ) domain containing 11	ABTB2B	
BTBD12			
BTBD3	BTB (POZ) domain containing 3	RP4-742J24.3, dJ742J24.1	
BTBD7	BTB (POZ) domain containing 7	FUP1	
BTBD8	BTB (POZ) domain containing 8		
BTBD9	BTB (POZ) domain containing 9	RP3-322I12.1, dJ322I12.1	
BTC	Betacellulin		
BTF3L4	Basic transcription factor 3-like 4	RP4-800M22.5	
BTG1	B-cell translocation gene 1, anti-proliferative	B-cell translocation gene 1, anti-proliferative	√
BTG2	BTG family, member 2	PC3, TIS21	
BTLA	B and T lymphocyte associated	BTLA1, CD272	
BTN2A1	Butyrophilin, subfamily 2, member A1	CTA-14H9.1, BK14H9.1, BT2.1, BTF1, BTN2.1, DJ2F1.1	
BTN3A1	Butyrophilin, subfamily 3, member A1	RP1-45P21.1, BT3.1, BTF5, BTN3.1, CD277	
BTNL3	Butyrophilin-like 3	UNQ744/PRO1472, BTN9.1, BTNLR	
BTNL8	Butyrophilin-like 8	UNQ702/PRO1347, BTN9.2	
BTRC	Beta-transducin repeat containing E3 ubiquitin protein ligase	RP11-529I10.2, BETA-TRCP, FBW1A, FBXW1, FBXW1A, FWD1, hTrCP, hTrCP1, betaTrCP	
BUB3	BUB3 mitotic checkpoint protein	BUB3L, hBUB3	
BUD31	BUD31 homolog *B1028*	Cwc14, EDG-2, EDG2, G10, YCR063W, fSAP17	
BVES	Blood vessel epicardial substance	RP3-522O2.1, HBVES, POP1, POPDC1	
BZW2	Basic leucine zipper and W2 domains 2	HSPC028, MST017, MSTP017	
C10orf10	Chromosome 10 open reading frame 10	DEPP, FIG, Fseg	
C10orf108			
C10orf112			
C10orf116			
C10orf118			
C10orf119			
C10orf12	Chromosome 10 open reading frame 12		
C10orf122			
C10orf4	Chromosome 10 open reading frame 4		
C10orf41	Chromosome 10 open reading frame 4		
C10orf44			
C10orf46			
C10orf54	Chromosome 10 open reading frame 54	RP11-472K8.3, B7-H5, B7H5, GI24, PP2135, SISP1	

C10orf67	Chromosome 10 open reading frame 67	RP11-792P23.2	
C10orf68			
C10orf72			
C10orf75			
C10orf76	Chromosome 10 open reading frame 76	RP11-190J1.9	
C10orf78			
C10orf79			
C10orf84			
C10orf88	Chromosome 10 open reading frame 88		
C10orf96			
C11orf16	Chromosome 11 open reading frame 16		
C11orf17			
C11orf30			
C11orf34			
C11orf41			
C11orf46			
C11orf53	Chromosome 11 open reading frame 53		
C11orf58	Chromosome 11 open reading frame 58	IMAGE145052, SMAP	
C11orf59			
C11orf64			
C11orf68	Chromosome 11 open reading frame 68	BLES03, P5326	
C11orf71	Chromosome 11 open reading frame 71		
C11orf73	Chromosome 11 open reading frame 73	HSPC138, HSPC179, Hikeshi, L7RN6, OPI10	
C11orf74	Chromosome 11 open reading frame 74	HEPIS	
C11orf75			
C11orf76			
C11orf87	Chromosome 11 open reading frame 87	LOH11CR1A, NEURIM1	
C11orf92			
C12orf12			
C12orf23			
C12orf29	Chromosome 12 open reading frame 29		
C12orf34			
C12orf35			

C12orf4	Chromosome 12 open reading frame 4		
C12orf41			
C12orf49	Chromosome 12 open reading frame 49		
C12orf5	Chromosome 12 open reading frame 5	FR2BP, TIGAR	
C12orf51			
C12orf56	Chromosome 12 open reading frame 56		
C12orf62			
C12orf64			
C12orf66	Chromosome 12 open reading frame 66		
C12orf68			
C12orf69			
C12orf72			
C12orf75	Chromosome 12 open reading frame 75	AGD3, OCC-1, OCC1	
C12orf76	Chromosome 12 open reading frame 76		
C12orf77	Chromosome 12 open reading frame 77		
C13orf1	Chromosome 13 open reading frame 1		
C13orf23			
C13orf30			
C13orf34			
C13orf36			
C13orf37			
C13orf38			
C14orf101			
C14orf118			
C14orf119	Chromosome 14 open reading frame 119	My028	
C14orf126	Chromosome 14 open reading frame 126	MGC9912	
C14orf129			
C14orf135			
C14orf139			
C14orf142	Chromosome 14 open reading frame 142	PNAS-127	
C14orf143			
C14orf153			
C14orf169	Chromosome 14 open reading frame 169	MAPJD, NO66, ROX, hsNO66	

C14orf177	Chromosome 14 open reading frame 177		
C14orf178	Chromosome 14 open reading frame 178		
C14orf181	Chromosome 14 open reading frame 181		
C14orf184	Chromosome 14 open reading frame 184	PP8961	
C14orf2	Chromosome 14 open reading frame 2	PRO1574, MP68, PLPM	
C14orf28	Chromosome 14 open reading frame 28	DRIP-1, DRIP1, c14_5270	
C14orf37	Chromosome 14 open reading frame 37	c14_5376	
C14orf4			
C14orf41	Chromosome 14 open reading frame 41	c14_5527	
C14orf43			
C14orf45	Chromosome 14 open reading frame 45		
C15orf2			
C15orf23			
C15orf26	Chromosome 15 open reading frame 26		
C15orf29			
C15orf34			
C15orf48	Chromosome 15 open reading frame 48	FOAP-11, NMES1	
C15orf50			
C15orf52	Chromosome 15 open reading frame 52		
C15orf54	Chromosome 15 open reading frame 54		
C15orf56	Chromosome 15 open reading frame 56		
C16orf46	Chromosome 16 open reading frame 46		
C16orf53			
C16orf55			
C16orf62	Chromosome 16 open reading frame 62	101F10.2	
C16orf63			
C16orf70	Chromosome 16 open reading frame 70	C16orf6, LIN10, lin-10	
C16orf71	Chromosome 16 open reading frame 71		
C16orf72	Chromosome 16 open reading frame 72	PRO0149	
C16orf75			
C16orf87	Chromosome 16 open reading frame 87		
C16orf90	Chromosome 16 open reading frame 90		
C17orf100	Chromosome 17 open reading frame 100	hCG_1985469	

C17orf102	Chromosome 17 open reading frame 102		
C17orf104	Chromosome 17 open reading frame 104		
C17orf108			
C17orf39			
C17orf51	Chromosome 17 open reading frame 51		
C17orf53	Chromosome 17 open reading frame 53		
C17orf54			
C17orf57			
C17orf59	Chromosome 17 open reading frame 59	PRO2472	
C17orf63			
C17orf69			
C17orf72			
C17orf76			
C17orf80	Chromosome 17 open reading frame 80	HLC8, HLC-8, MIG3, SPEP1	
C17orf85	Chromosome 17 open reading frame 85	ELG, HSA277841	
C17orf87			
C17orf91			
C18orf1			
C18orf16			
C18orf19			
C18orf20			
C18orf21	Chromosome 18 open reading frame 21	PNAS-124, HsT3108, PNAS-131, XTP13	
C18orf22			
C18orf25	Chromosome 18 open reading frame 25	ARKL1, RNF111L1	
C18orf34			
C18orf45			
C18orf49	Chromosome 18 open reading frame 49		
C18orf54	Chromosome 18 open reading frame 54	LAS2	
C18orf55			
C18orf8	Chromosome 18 open reading frame 8	HsT2591, MIC1, Mic-1	
C19orf12	Chromosome 19 open reading frame 12	NBIA3, NBIA4, SPG43	
C19orf2			
C19orf25	Chromosome 19 open reading frame 25		

C19orf28			
C19orf42			
C19orf44	Chromosome 19 open reading frame 44		
C19orf50			
C19orf54	Chromosome 19 open reading frame 54		
C19orf59			
C19orf61			
C19orf62			
C19orf63			
C19orf66	Chromosome 19 open reading frame 66		
C19orf75			
C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta	C1GALT, T-synthase	
C1orf107			
C1orf109	Chromosome 1 open reading frame 109		
C1orf110	Chromosome 1 open reading frame 110	RP11-331H2.2	
C1orf112	Chromosome 1 open reading frame 112	RP1-97P20.1	
C1orf113			
C1orf116	Chromosome 1 open reading frame 116	SARG	
C1orf125			
C1orf131	Chromosome 1 open reading frame 131	RP4-609B14.1	
C1orf146	Chromosome 1 open reading frame 146	RP11-163M2.3	
C1orf151			
C1orf161			
C1orf167	Chromosome 1 open reading frame 167	RP11-56N19.2	
C1orf168	Chromosome 1 open reading frame 168	RP4-758N20.2	
C1orf174	Chromosome 1 open reading frame 174	RP13-531C17.2	
C1orf175			
C1orf180	Chromosome 1 open reading frame 180		
C1orf185	Chromosome 1 open reading frame 185	RP11-296A18.1	
C1orf186	Chromosome 1 open reading frame 186		
C1orf21	Chromosome 1 open reading frame 21	RP4-768P8.1, PIG13	
C1orf211			
C1orf220	Chromosome 1 open reading frame 220	RP5-990P15.2	

C1orf226	Chromosome 1 open reading frame 226	hCG_2036738	
C1orf27	Chromosome 1 open reading frame 27	ODR4, TTG1, odr-4	
C1orf43	Chromosome 1 open reading frame 43	HSPC012, NICE-3, NS5ATP4, S863-3	
C1orf50	Chromosome 1 open reading frame 50		
C1orf52	Chromosome 1 open reading frame 52	GM117, gm117	
C1orf56	Chromosome 1 open reading frame 56	RP11-316M1.9, MENT	
C1orf57			
C1orf63			
C1orf69			
C1orf83			
C1orf84	Chromosome 1 open reading frame 84	RP11-506B15.1, SZT2A	
C1orf9	Chromosome 1 open reading frame 9		
C1orf93			
C1orf96			
C1QTNF2	C1q and tumor necrosis factor related protein 2	UNQ6349/PRO21054, CTRP2, zacrp2	
C1QTNF3	C1q and tumor necrosis factor related protein 3	UNQ755/PRO1484, C1ATNF3, CORC3, CORS, CORS-26, CORS26, CTRP3	
C1QTNF7	C1q and tumor necrosis factor related protein 7	CTRP7, ZACRP7	
C1RL	Complement component 1, r subcomponent-like	C1RL1P, C1r-LP, CLSPa, C1RL	
C20orf103			
C20orf112			
C20orf12			
C20orf191	Chromosome 20 open reading frame 191	bB329D4.2	
C20orf194			
C20orf199			
C20orf24	Chromosome 20 open reading frame 24	PNAS-11, RIP5	
C20orf29			
C20orf30			
C20orf72			
C20orf85	Chromosome 20 open reading frame 85	LLC1, bA196N14.1	
C21orf105	Chromosome 21 open reading frame 105		
C21orf119	Chromosome 21 open reading frame 119	PRED84	
C21orf125			
C21orf129			

C21orf34	Chromosome 21 open reading frame 34		
C21orf49	Chromosome 21 open reading frame 49		
C21orf74			
C21orf82			
C21orf91	Chromosome 21 open reading frame 91	C21orf14, C21orf38, CSSG1, EURL, YG81	
C21orf94			
C21orf99			
C22orf13	Chromosome 22 open reading frame 13		
C22orf25			
C22orf28			
C22orf29	Chromosome 22 open reading frame 29	BOP	
C22orf30			
C22orf39	Chromosome 22 open reading frame 39		
C22orf40			
C22orf46	Chromosome 22 open reading frame 46	CTA-216E10.6	
C22orf9	Chromosome 22 open reading frame 9		
C2CD2	C2 calcium-dependent domain containing 2	C21orf25, C21orf258, TMEM24L	
C2CD2L	C2CD2-like	DLNB23, TMEM24	
C2orf14	Chromosome 2 open reading frame 14	DKFZp434F1719	
C2orf15	Chromosome 2 open reading frame 15		
C2orf29			
C2orf39			
C2orf42	Chromosome 2 open reading frame 42		
C2orf43	Chromosome 2 open reading frame 43		
C2orf54	Chromosome 2 open reading frame 54		
C2orf55			
C2orf56			
C2orf60			
C2orf68	Chromosome 2 open reading frame 68	HCRCN81	
C2orf69	Chromosome 2 open reading frame 69		
C2orf71	Chromosome 2 open reading frame 71	RP54	
C2orf73	Chromosome 2 open reading frame 73		
C2orf74	Chromosome 2 open reading frame 74		

C2orf80	Chromosome 2 open reading frame 80	GONDA1	
C2orf83	Chromosome 2 open reading frame 83		
C2orf86			
C2orf88	Chromosome 2 open reading frame 88	smAKAP	
C2orf89			
C2orf90			
C3orf1	Chromosome 3 open reading frame 1		
C3orf10			
C3orf14	Chromosome 3 open reading frame 14	HT021	
C3orf15			
C3orf16			
C3orf23			
C3orf26			
C3orf35	Chromosome 3 open reading frame 35	APRG1	
C3orf42			
C3orf43			
C3orf52	Chromosome 3 open reading frame 52	TTMP	
C3orf55	Chromosome 3 open reading frame 55		
C3orf58	Chromosome 3 open reading frame 58	DIA1, GoPro49, HASF	
C3orf59			
C3orf62	Chromosome 3 open reading frame 62		
C3orf64			
C3orf65	Chromosome 3 open reading frame 65		
C3orf67	Chromosome 3 open reading frame 67		
C3orf74			
C3P1	Complement component 3 precursor pseudogene	CPLP	
C4orf19	Chromosome 4 open reading frame 19		
C4orf23			
C4orf29	Chromosome 4 open reading frame 29		
C4orf3	Chromosome 4 open reading frame 3		
C4orf33	Chromosome 4 open reading frame 33		
C4orf34			
C4orf35			

C4orf38			
C4orf40			
C4orf41			
C4orf43			
C5	Complement component 5		
C5AR1	Complement component 5a receptor 1	C5A, C5AR, C5R1, CD88	
C5orf13			
C5orf15	Chromosome 5 open reading frame 15	HTGN29, KCT2	
C5orf20			
C5orf22	Chromosome 5 open reading frame 22		
C5orf23	Chromosome 5 open reading frame 23		
C5orf28	Chromosome 5 open reading frame 28		
C5orf30	Chromosome 5 open reading frame 30		
C5orf33			
C5orf34	Chromosome 5 open reading frame 34		
C5orf36			
C5orf4			
C5orf41			
C5orf43			
C5orf44			
C5orf46	Chromosome 5 open reading frame 46	UNQ472/PRO839, SSSP1	
C5orf47	Chromosome 5 open reading frame 47		
C5orf51	Chromosome 5 open reading frame 51		
C5orf56	Chromosome 5 open reading frame 56		
C5orf62			
C6orf106	Chromosome 6 open reading frame 106	RP3-391O22.4, FP852, dJ391O22.4	
C6orf114	Chromosome 6 open reading frame 114	ADG-90	
C6orf115	Chromosome 6 open reading frame 115	HSPC280, PRO2013	
C6orf122	Chromosome 6 open reading frame 122	FLJ31451, dJ266L20.5	
C6orf130			
C6orf132	Chromosome 6 open reading frame 132	bA7K24.2	
C6orf134			
C6orf141	Chromosome 6 open reading frame 141		

C6orf142			
C6orf162			
C6orf163	Chromosome 6 open reading frame 163		
C6orf168			
C6orf170			
C6orf174			
C6orf176			
C6orf182	Chromosome 6 open reading frame 182	MGC21731, bA487F23.2	
C6orf192			
C6orf211	Chromosome 6 open reading frame 211		
C6orf217	Chromosome 6 open reading frame 217		
C6orf223	Chromosome 6 open reading frame 223		
C6orf26	chromosome 6 open reading frame 26	NG23	
C6orf35	Chromosome 6 open reading frame 35	BM033	
C6orf62	Chromosome 6 open reading frame 62	RP1-30M3.4, Nbla00237, XTP12, dJ30M3.2	
C6orf89	Chromosome 6 open reading frame 89	RP1-90K10.6, BRAP	
C6orf97			
C7	Complement component 7		
C7orf13	Chromosome 7 open reading frame 13	tcag7.556, MY040	
C7orf16			
C7orf27			
C7orf28B			
C7orf31	Chromosome 7 open reading frame 31		
C7orf41			
C7orf42			
C7orf46	Chromosome 7 open reading frame 46		
C7orf52			
C7orf53			
C7orf54			
C7orf57	Chromosome 7 open reading frame 57		
C7orf58			
C7orf60	Chromosome 7 open reading frame 60		
C7orf63			

C7orf64			
C7orf68			
C7orf71	Chromosome 7 open reading frame 71		
C8orf34	Chromosome 8 open reading frame 34	VEST-1, VEST1	
C8orf38			
C8orf41			
C8orf44	Chromosome 8 open reading frame 44		
C8orf59	Chromosome 8 open reading frame 59		
C8orf68			
C8orf76	Chromosome 8 open reading frame 76		
C8orf79	Chromosome 8 open reading frame 79		
C8orf81			
C8orf83			
C8orf84			
C9	Complement component 9	ARMD15D, C9	
C9orf100			
C9orf102	Chromosome 9 open reading frame 102	RP11-346B7.2, SR278	
C9orf109			
C9orf11			
C9orf110	Chromosome 9 open reading frame 110		
C9orf128			
C9orf144			
C9orf167			
C9orf170	Chromosome 9 open reading frame 170		
C9orf21			
C9orf23			
C9orf25			
C9orf3	Chromosome 9 open reading frame 3	RP11-80I15.5, AOPEP, AP-O, APO, C90RF3, ONPEP	
C9orf30			
C9orf40	Chromosome 9 open reading frame 40		
C9orf44			
C9orf47	Chromosome 9 open reading frame 47	C9orf108, bA791O21.3	
C9orf5			

C9orf62	Chromosome 9 open reading frame 62	RP11-555H7.1	
C9orf68			
C9orf71			
C9orf72	Chromosome 9 open reading frame 72	ALSFTD, FTDALS	
C9orf73	Chromosome 9 open reading frame 73		
C9orf80			
C9orf85	Chromosome 9 open reading frame 85	RP11-346E17.2	
C9orf91	Chromosome 9 open reading frame 91	RP11-402G3.2	
C9orf93			
C9orf96			
CA10	Carbonic anhydrase X	hucep-15, CA-RPX, CARPX, HUCEP-15	
CA12	Carbonic anhydrase XII	CAXII, HsT18816	
CA13	Carbonic anhydrase XIII	CAXIII	
CA3	Carbonic anhydrase III, muscle specific	CAIII, Car3	
CA5B	Carbonic anhydrase VB, mitochondrial	CA-VB	
CA8	Carbonic anhydrase VIII	CA-VIII, CALS, CAMRQ3, CARP	
CA9	Carbonic anhydrase IX	CAIX, MN	
CAB39	Calcium binding protein 39	CGI-66, MO25	
CAB39L	Calcium binding protein 39-like	RP11-103J18.3, MO25-BETA, MO2L, bA103J18.3	
CABC1	Chaperone, ABC1 activity of bc1 complex like (S. pombe)		
CABLES1	Cdk5 and Abl enzyme substrate 1	CABL1, CABLES, HsT2563, IK3-1	
CABLES2	Cdk5 and Abl enzyme substrate 2	RP5-908M14.2, C20orf150, dJ908M14.2, ik3-2	
CABYR	Calcium binding tyrosine-(Y)-phosphorylation regulated	CABYRac, CABYRC/d, CABYRe, CBP86, CYR6, FSP-2, FSP2, CABYR	
CACHD1	Cache domain containing 1	RP4-655E10.1	
CACNA1B	Calcium channel, voltage-dependent, N type, alpha 1B subunit	BIII, CACNL1A5, CACNN, Cav2.2	
CACNA1C	Calcium channel, voltage-dependent, L type, alpha 1C subunit	CACH2, CACN2, CACNL1A1, CCHL1A1, Cav1.2, LQT8, TS	
CACNA1E	Calcium channel, voltage-dependent, R type, alpha 1E subunit	BII, CACH6, CACNL1A6, Cav2.3	
CACNA2D2	Calcium channel, voltage-dependent, alpha 2/delta subunit 2	CACNA2D	
CACNA2D3	Calcium channel, voltage-dependent, alpha 2/delta subunit 3	HSA272268	
CACNA2D4	Calcium channel, voltage-dependent, alpha 2/delta subunit 4	RCD4	
CACNB2	Calcium channel, voltage-dependent, beta 2 subunit	RP11-383B4.2, CACNLB2, CAVB2, MYSB	
CACNB4	Calcium channel, voltage-dependent, beta 4 subunit	RP23-435G20.4, 3110038O15Rik, Cchb4, lh	
CACYBP	Calcyclin binding protein	PNAS-107, GIG5, S100A6BP, SIP	

CADM1	Cell adhesion molecule 1	BL2, IGSF4, IGSF4A, NECL2, Necl-2, RA175, SYN7, SYNCAM, TSLC1, sTSLC-1, sgIGSF, synCAM1	
CADM2	Cell adhesion molecule 2	IGSF4D, NECL3, Necl-3, SynCAM 2, synCAM2	
CADM3	Cell adhesion molecule 3	CTA-154F22.1, BIgR, IGSF4B, NECL1, Necl-1, TSLL1, synCAM3	
CADPS2	Ca^{++}-dependent secretion activator 2		
CALB1	Calbindin 1, 28 kDa	CALB	
CALCA	Calcitonin-related polypeptide alpha	CALC1, CGRP, CGRP-I, CGRP1, CT, KC	
CALCB	Calcitonin-related polypeptide beta	CALC2, CGRP-II, CGRP2	
CALCR	Calcitonin receptor	CRT, CT-R, CTR, CTR1	
CALCRL	Calcitonin receptor-like	CGRPR, CRLR	
CALD1	Caldesmon 1	CDM, H-CAD, HCAD, L-CAD, LCAD, NAG22	
CALM1	Calmodulin 1 (phosphorylase kinase, delta)	CALML2, CAMI, CPVT4, DD132, PHKD, caM	
CALM2	Calmodulin 2 (phosphorylase kinase, delta)	CAMII, PHKD, PHKD2	
CALM3	Calmodulin 3 (phosphorylase kinase, delta)	HEL-S-72, PHKD, PHKD3	
CALN1	Calneuron 1	CABP8	
CALR	Calreticulin	CRT, HEL-S-99n, RO, SSA, cC1qR	√
CALU	Calumenin		
CAMK2D	Calcium/calmodulin-dependent protein kinase II delta	CAMKD	
CAMK2G	Calcium/calmodulin-dependent protein kinase II gamma	RP11-574K11.6, CAMK, CAMK-II, CAMKG	
CAMK2N1	Calcium/calmodulin-dependent protein kinase II inhibitor 1	RP11-401M16.1, PRO1489	
CAMKK1	Calcium/calmodulin-dependent protein kinase kinase 1, alpha	CAMKKA	
CAMSAP1	Calmodulin regulated spectrin-associated protein 1	RP11-100C15.2, PRO2405, bA100C15.1	
CAMSAP1L1			
CAMTA1	Calmodulin binding transcription activator 1	RP3-467L1.1, CANPMR	√
CAMTA2	Calmodulin binding transcription activator 2		
CAND1	Cullin-associated and neddylation-dissociated 1	TIP120, TIP120A	
CANT1	Calcium activated nucleotidase 1	DBQD, SCAN-1, SCAN1, SHAPY	√
CANX	Calnexin	CNX, IP90, P90	
CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	RP11-115D7.1, CAP-PEN, CAP1	
CAPRIN1	Cell cycle associated protein 1	GPIAP1, GPIP137, GRIP137, M11S1, RNG105, p137GPI	
CAPRIN2	Caprin family member 2	C1QDC1, EEG-1, EEG1, RNG140	
CAPS2	Calcyphosine 2	UG0636c06	
CAPZA1	Capping protein (actin filament) muscle Z-line, alpha 1	CAPPA1, CAPZ, CAZ1	
CAPZA2	Capping protein (actin filament) muscle Z-line, alpha 2	CAPPA2, CAPZ	

CARD10	Caspase recruitment domain family, member 10	RP5-889J22__B.2, BIMP1, CARMA3	
CARD11	Caspase recruitment domain family, member 11	BENTA, BIMP3, CARMA1, IMD11, PPBL	√
CARD14	Caspase recruitment domain family, member 14	BIMP2, CARMA2, PRP, PSORS2, PSS1	
CARD8	Caspase recruitment domain family, member 8	CARDINAL, DACAR, DAKAR, NDPP, NDPP1, TUCAN	
CARM1	Coactivator-associated arginine methyltransferase 1	PRMT4	
CASC2	Cancer susceptibility candidate 2 (non-protein coding)	C10orf5	
CASC3	Cancer susceptibility candidate 3	BTZ, MLN51	
CASC4	Cancer susceptibility candidate 4	UNQ2573/PRO6308, H63	
CASC5	Cancer susceptibility candidate 5	AF15Q14, CT29, D40, KNL1, PPP1R55, Spc7, hKNL-1, hSpc105	
CASK	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)	RP11-540L11.1, CAGH39, CAMGUK, CMG, FG34, LIN2, MICPCH, MRXSNA, TNRC8	
CASKIN1	CASK interacting protein 1	ANKS5A	
CASP1	Caspase 1, apoptosis-related cysteine peptidase	ICE, IL1BC, P45	
CASP10	Caspase 10, apoptosis-related cysteine peptidase	ALPS2, FLICE2, MCH4	
CASP2	Caspase 2, apoptosis-related cysteine peptidase	CASP-2, ICH1, NEDD-2, NEDD2, PPP1R57	
CASP4	Caspase 4, apoptosis-related cysteine peptidase	ICE(rel)II, ICEREL-II, ICH-2, Mih1/TX, TX	
CASP7	Caspase 7, apoptosis-related cysteine peptidase	RP11-21N11.6, CASP-7, CMH-1, ICE-LAP3, LICE2, MCH3	
CASP8	Caspase 8, apoptosis-related cysteine peptidase	ALPS2B, CAP4, Casp-8, FLICE, MACH, MCH5	√
CASQ2	Calsequestrin 2 (cardiac muscle)	PDIB2	
CASR	Calcium-sensing receptor	CAR, EIG8, FHH, FIH, GPRC2A, HHC, HHC1, HYPOC1, NSHPT, PCAR1	
CAST	Calpastatin	BS-17	
CAT	Catalase		
CATSPER2	Cation channel, sperm associated 2		
CAV1	Caveolin 1, caveolae protein, 22 kDa	BSCL3, CGL3, LCCNS, MSTP085, PPH3, VIP21	
CAV2	Caveolin 2	CAV	
CBFA2T2	Core-binding factor, runt domain, alpha subunit 2; translocated to, 2	RP5-1137F22.1, EHT, MTGR1, ZMYND3, p85	
CBFA2T3	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3	ETO2, MTG16, MTGR2, ZMYND4	√
CBL	Cbl proto-oncogene, E3 ubiquitin protein ligase	C-CBL2, FRA11B, NSLL, RNF55, CBL	√
CBLB	Cbl proto-oncogene B, E3 ubiquitin protein ligase	Nbla00127, Cbl-b, RNF56	√
CBLL1	Cbl proto-oncogene-like 1, E3 ubiquitin protein ligase	HAKAI, RNF188	
CBLN2	Cerebellin 2 precursor	UNQ1892/PRO4338	
CBR1	Carbonyl reductase 1	CBR, SDR21C1, hCBR1	
CBR4	Carbonyl reductase 4	SDR45C1	
CBWD1	COBW domain containing 1	RP11-143M1.6, COBP	

CBWD2	COBW domain containing 2		
CBWD3	COBW domain containing 3	RP11-561O23.4, bA561O23.1	
CBWD5	COBW domain containing 5	RP11-460E7.3, DC36	
CBWD6	COBW domain containing 6	BX255923.2	
CBX4	Chromobox homolog 4	NBP16, PC2	
CBX5	Chromobox homolog 5	HEL25, HP1, HP1A	
CBX7	Chromobox homolog 7	RP4-742C19.7	
CBY1	Chibby homolog 1 (Drosophila)	RP3-506H15.6, C22orf2, CBY, H3506H15A, PGEA1, PIGEA-14, PIGEA14, orb1	
CC2D2A	Coiled-coil and C2 domain containing 2A	JBTS9, MKS6	
CC2D2B	Coiled-coil and C2 domain containing 2B	RP11-248J23.4, C10orf130, bA248J23.4	
CCAR1	Cell division cycle and apoptosis regulator 1	RP11-437A18.1	
CCBL1	Cysteine conjugate-beta lyase, cytoplasmic	RP11-545E17.6, GTK, KAT1, KATI	
CCBP2			
CCDC102A	Coiled-coil domain containing 102A		
CCDC102B	Coiled-coil domain containing 102B	ACY1L, AN, C18orf14, HsT1731	
CCDC103	Coiled-coil domain containing 103	CILD17, PR46b, SMH	
CCDC108	Coiled-coil domain containing 108		
CCDC109A			
CCDC110	Coiled-coil domain containing 110	CT52, KM-HN-1, KMHN1	
CCDC112	Coiled-coil domain containing 112	MBC1	
CCDC113	Coiled-coil domain containing 113	HSPC065	
CCDC117	Coiled-coil domain containing 117	CTA-292E10.4, dJ366L4.1	
CCDC122	Coiled-coil domain containing 122	RP11-5G9.1	
CCDC125	Coiled-coil domain containing 125	KENAE	
CCDC126	Coiled-coil domain containing 126	6330407D12Rik, AA675040, AI465320, AL022711	
CCDC132	Coiled-coil domain containing 132		
CCDC14	CCoiled-coil domain containing 14		
CCDC141	Coiled-coil domain containing 141	CAMDI	
CCDC144A	Coiled-coil domain containing 144A		
CCDC144B	Coiled-coil domain containing 144B (coenocorin)		
CCDC144NL	Coiled-coil domain containing 144 family, N-terminal like		
CCDC148	Coiled-coil domain containing 148		
CCDC149	Coiled-coil domain containing 149		

CCDC15	Coiled-coil domain containing 15		
CCDC150	Coiled-coil domain containing 150		
CCDC152	Coiled-coil domain containing 152	Chr5_400, CH5400	
CCDC155	Coiled-coil domain containing 155	KASH5	
CCDC17	Coiled-coil domain containing 17	RP4-697E16.4	
CCDC25	Coiled-coil domain containing 25		
CCDC34	Coiled-coil domain containing 34	L15, NY-REN-41, RAMA3	
CCDC36	coiled-coil domain containing 36	CT74	
CCDC41			
CCDC42	Coiled-coil domain containing 42	CCDC42A	
CCDC45			
CCDC50	Coiled-coil domain containing 50	C3orf6, DFNA44, YMER	
CCDC51	Coiled-coil domain containing 51		
CCDC52			
CCDC6	Coiled-coil domain containing 6	D10S170, H4, PTC, TPC, TST1	√
CCDC60	Coiled-coil domain containing 60		
CCDC62	Coiled-coil domain containing 62	CT109, ERAP75, TSP-NY	
CCDC64	Coiled-coil domain containing 64	BICDR-1, H_267D11.1	
CCDC66	Coiled-coil domain containing 66		
CCDC67	Coiled-coil domain containing 67		
CCDC68	Coiled-coil domain containing 68	SE57-1	
CCDC7	Coiled-coil domain containing 7	RP11-195O1.4, BioT2-A, BioT2-B, BioT2-C, C10orf68	
CCDC73	Coiled-coil domain containing 73	NY-SAR-79	√
CCDC75			
CCDC85A	Coiled-coil domain containing 85A		
CCDC88A	Coiled-coil domain containing 88A	APE, GIRDIN, GIV, GRDN, HkRP1, KIAA1212	
CCDC88C	Coiled-coil domain containing 88C	DAPLE, HKRP2, KIAA1509, SCA40	
CCDC9	Coiled-coil domain containing 9		
CCDC91	Coiled-coil domain containing 91	HSD8, p56	
CCDC92	Coiled-coil domain containing 92		
CCDC93	Coiled-coil domain containing 93		
CCDC99			
CCKBR	Cholecystokinin B receptor	CCK-B, CCK2R, GASR	

CCL13	Chemokine (C-C motif) ligand 13	CKb10, MCP-4, NCC-1, NCC1, SCYA13, SCYL1	
CCL22	Chemokine (C-C motif) ligand 22	A-152E5.1, ABCD-1, DC/B-CK, MDC, SCYA22, STCP-1	
CCL25	Chemokine (C-C motif) ligand 25	Ckb15, SCYA25, TECK	
CCL8	Chemokine (C-C motif) ligand 8	HC14, MCP-2, MCP2, SCYA10, SCYA8	
CCNB1	Cyclin B1	CCNB	
CCNDBP1	Cyclin D-type binding-protein 1	DIP1, GCIP, HHM	
CCNE1	Cyclin E1	CCNE	√
CCNF	Cyclin F	FBX1, FBXO1	
CCNG1	Cyclin G1	CCNG	
CCNG2	Cyclin G2		
CCNH	Cyclin H	CAK, CycH, p34, p37	
CCNI2	Cyclin I family, member 2		
CCNJ	Cyclin J	bA690P14.1	
CCNK	Cyclin K	CPR4	
CCNL2	Cyclin L2	RP4-758J18.1, ANIA-6B, CCNM, CCNS, HCLA-1SO, HLA-ISO, PCEE, SR138	
CCNT2	Cyclin T2	CYCT2	
CCR1	Chemokine (C-C motif) receptor 1	CD191, CKR-1, CKR1, CMKBR1, HM145, MIP1aR, SCYAR1	
CCR2	Chemokine (C-C motif) receptor 2	hCG_14021, CC-CKR-2, CCR-2A, CCR2B, CD192, CKR2, CKR2A, CKR2B, CMKBR2, MCP-1-R, CCR2	
CCR3	Chemokine (C-C motif) receptor 3	CC-CKR-3, CD193, CKR3, CMKBR3	
CCR6	Chemokine (C-C motif) receptor 6	BN-1, C-C CKR-6, CC-CKR-6, CCR-6, CD196, CKR-L2, GKRL2, GMKBR6, DCR2, DRY6, GPR29	
CCRN4L	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	CCR4L, Ccr4c, NOC	
CCT5	Chaperonin containing TCP1, subunit 5 (epsilon)	CCT-epsilon, CCTE, HEL-S-69, TCP-1-epsilon	
CCT6P1	Chaperonin containing TCP1, subunit 6 (zeta) pseudogene 1	CCT6-5P, CCT6AP1	
CCT6P3	Chaperonin containing TCP1, subunit 6 (zeta) pseudogene 2		
CCT8L2	Chaperonin containing TCP1, subunit 8 (theta) like 2	CESK1	
CD101	CD101 molecule	RP11-27K13.2, EWI-101, IGSF2, V7	
CD109	CD109 molecule	RP11-525G3.1, CPAMD7, p180, r150	
CD160	CD160 molecule	RP11-373C9.1, BY55, NK1, NK28	
CD163	CD163 molecule	M130, MM130	
CD1C	CD1c molecule	RP11-101J8.3, BDCA1, CD1, CD1A, R7	
CD1D	CD1d molecule	CD1A, R3	
CD1E	CD1e molecule	RP11-101J8.5, CD1A, R2	
CD2	CD2 molecule	RP4-655N15.2, LFA-2, SRBC, T11	

CD200R1	CD200 receptor 1	UNQ2522/PRO6015, CD200R, HCRTR2, MOX2R, OX2R	
CD24	CD24 molecule	CD24A	
CD247	CD247 molecule	RP11-104L21.1, CD3-ZETA, CD3H, CD3Q, CD3Z, IMD25, T3Z, TCRZ	
CD274	CD274 molecule	B7-H, B7H1, PD-L1, PDCD1L1, PDCD1LG1, PDL1	√
CD28	CD28 molecule	Tp44	
CD2AP	CD2-associated protein	CMS	
CD300LB	CD300 molecule-like family member b	UNQ2550/PRO6029, CD300b, CLM-7, CLM7, CMRF35-A2, IREM-2, IREM2, TREM-5, TREM5	
CD302	CD302 molecule	BIMLEC, CLEC13A, DCL-1, DCL1	
CD33	CD33 molecule	SIGLEC-3, SIGLEC3, p67	
CD4	CD4 molecule	CD4mut	
CD44	CD44 molecule (Indian blood group)	AL133550.1, CDW44, CSPG8, ECMR-III, HCELL, HUTCH-I, IN, LHR, MC56, MDU2, MDU3, MIC4, Pgp1	
CD46	CD46 molecule, complement regulatory protein	AHUS2, MCP, MIC10, TLX, TRA2.10	
CD47	CD47 molecule	IAP, MER6, OA3	
CD48	CD48 molecule	RP11-404P10.3, BCM1, BLAST, BLAST1, MEM-102, SLAMF2, hCD48, mCD48	
CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	RP11-357P18.1, CR, CROM, DAF, TC	
CD59	CD59 molecule, complement regulatory protein	16.3A5, 1F5, EJ16, EJ30, EL32, G344, HKP-20, HKP20, MAC-IP, MACIF, MEM43, MIC11, MIN1, MIN2, MIN3	
CD5L	CD5 molecule-like	UNQ205/PRO229, AIM, Api6, PRO229, SP-ALPHA, Spalpha	
CD6	CD6 molecule	TP120	
CD69	CD69 molecule	AIM, BL-AC/P26, CLEC2C, EA1, GP32/28, MLR-3	
CD84	CD84 molecule	LY9B, SLAMF5, hCD84, mCD84	
CD93	CD93 molecule	C1QR1, C1qR(P), C1qRP, CDw93, EC3M3, MXRA4, dJ727E23.1	
CD96	CD96 molecule	TACTILE	
CD99L2	CD99 molecule-like 2	UNQ1964/PRO4486, CD99B, MIC2L1	
CDADC1	Cytidine and dCMP deaminase domain containing 1	RP11-103J18.2, NYD-SP15, bA103J18.1	
CDC123	Cell division cycle 123	RP11-186N15.4, C10orf7, D123	
CDC14A	Cell division cycle 14A	cdc14, hCDC14	
CDC14B	Cell division cycle 14B	RP11-172F4.15, Cdc14B1, Cdc14B2, hCDC14B, CDC14B	
CDC16	Cell division cycle 16	RP11-569D9.4, ANAPC6, APC6, CUT9	
CDC20B	Cell division cycle 20B	G6VTS76519	
CDC23	Cell division cycle 23	ANAPC8, APC8, CUT23	
CDC25A	Cell division cycle 25A	CDC25A2	
CDC26	Cell division cycle 26	ANAPC12, APC12, C9orf17	
CDC27	Cell division cycle 27	ANAPC3, APC3HS, D0S1430E, D17S978E, H-NUC, HNUC, NUC2, CDC27	

CDC40	Cell division cycle 40	RP1-71D21.3, EHB3, PRP17, PRPF17	
CDC42	Cell division cycle 42	RP1-224A6.5Hs, G25K, CDC42	
CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	RP5-1087E8.4, MRCK, MRCKA	
CDC42BPB	CDC42 binding protein kinase beta (DMPK-like)	MRCKB	
CDC42SE1	CDC42 small effector 1	SCIP1, SPEC1	
CDC42SE2	CDC42 small effector 2	SPEC2	
CDC45	Cell division cycle 45	UNQ374/PRO710L, CDC45L2, PORC-PI-1, CDC45	
CDC6	Cell division cycle 6	CDC18L, HsCDC18, HsCDC6	
CDC73	Cell division cycle 73	C1orf28, FIHP, HPTJT, HRPT1, HRPT2, HYX	
CDCA4	Cell division cycle associated 4	HEPP, SEI-3/HEPP	
CDCA5	Cell division cycle associated 5	SORORIN	
CDCP1	CUB domain containing protein 1	UNQ2486/PRO5773, CD318, SIMA135, TRASK	
CDH1	Cadherin 1, type 1, E-cadherin (epithelial)	Arc-1, CD324, CDHE, ECAD, LCAM, UVO	√
CDH13	Cadherin 13	CDHH, P105	
CDH17	Cadherin 17, LI cadherin (liver-intestine)	CDH16, HPT-1, HPT1	
CDH2	Cadherin 2, type 1, N-cadherin (neuronal)	CD325, CDHN, CDw325, NCAD	
CDH23	Cadherin-related 23	RP11-472K8.4, CDHR23, USH1D	
CDH3	Cadherin 3, type 1, P-cadherin (placental)	CDHP, HJMD, PCAD	
CDH7	cadherin 7, type 2	CDH7L1	
CDH8	Cadherin 2, type 1, N-cadherin (neuronal)	CD325, CDHN, CDw325, NCAD	
CDH9	Cadherin 9, type 2 (T1-cadherin)		
CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase	PIS, PIS1	
CDK1	Cyclin-dependent kinase 1	CDC2, CDC28A, P34CDC2	
CDK10	Cyclin-dependent kinase 10	PISSLRE	
CDK14	Cyclin-dependent kinase 14	PFTAIRE1, PFTK1	
CDK17	Cyclin-dependent kinase 17	PCTAIRE2, PCTK2	
CDK19	Cyclin-dependent kinase 19	RP11-346C16.5, CDC2L6, CDK11, bA346C16.3	
CDK2AP1	Cyclin-dependent kinase 2 associated protein 1	DOC1, DORC1, ST19, doc-1, p12DOC-1	
CDK3	Cyclin-dependent kinase 3		
CDK6	Cyclin-dependent kinase 6	PLSTIRE	√
CDK8	Cyclin-dependent kinase 8	K35	
CDKL2	Cyclin-dependent kinase-like 2 (CDC2-related kinase)	KKIAMRE, P56	
CDKL3	Cyclin-dependent kinase-like 3	NKIAMRE	

CDKN1B	Cyclin-dependent kinase inhibitor 1B (p27, Kip1)	CDKN4, KIP1, MEN1B, MEN4, P27KIP1	
CDKN2AIP	CDKN2A interacting protein	CARF	
CDKN2AIPNL	CDKN2A interacting protein N-terminal like		
CDKN2BAS			
CDKN2C	Cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	RP11-278J17.2, INK4C, p18, p18-INK4C	√
CDKN3	Cyclin-dependent kinase inhibitor 3	CDI1, CIP2, KAP, KAP1	
CDON	Cell adhesion associated, oncogene regulated	CDO1, HPE11, ORCAM, CDON	
CDR2	Cerebellar degeneration-related protein 2, 62 kDa	CDR62, Yo	
CDR2L	Cerebellar degeneration-related protein 2-like	HUMPPA	
CDRT4	CMT1A duplicated region transcript 4		
CDS1	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1	CDS	
CDS2	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2	RP4-680N4.2	
CDV3			
CDX2	Caudal type homeobox 2	CDX-3/AS, CDX3, CDX2	√
CDY1	Chromodomain protein, Y-linked, 1	CDYA, CDY1	
CDYL	Chromodomain protein, Y-like	CDYL1	
CEACAM1	Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	BGP, BGP1, BGPI	
CEACAM21	Carcinoembryonic antigen-related cell adhesion molecule 21	UNQ3098/PRO10075, CEACAM3, R29124_1	
CEACAM3	Carcinoembryonic antigen-related cell adhesion molecule 3	CD66D, CEA, CGM1, W264, W282	
CEACAM5	Carcinoembryonic antigen-related cell adhesion molecule 5	CD66e, CEA	
CEBPA	CCAAT/enhancer binding protein (C/EBP), alpha	C/EBP-alpha, CEBP	√
CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma	GPE1BP, IG/EBP-1	
CECR1	Cat eye syndrome chromosome region, candidate 1	ADA2, ADGF, IDGFL, PAN, SNEDS	
CECR2	Cat eye syndrome chromosome region, candidate 2		
CECR4	Cat eye syndrome chromosome region, candidate 4 (non-protein coding)		
CECR6	Cat eye syndrome chromosome region, candidate 6		
CECR7	Cat eye syndrome chromosome region, candidate 7 (non-protein coding)	SAHL1	
CELF1	CUGBP, Elav-like family member 1	BRUNOL2, CUG-BP, CUGBP, CUGBP1, EDEN-BP, NAB50-44AP1.2, BRUNOL3, CUGBP2, ETR-3, ETR3, NAPOR	
CELF2	CUGBP, Elav-like family member 2		
CELSR3	Cadherin, EGF LAG seven-pass G-type receptor 3	CDHF11, EGFL1, FMI1, HFMI1, MEGF2, RESDA1	
CENPC1			
CENPE	Centromere protein E, 312 kDa	CENP-E, KIF10, PPP1R61	
CENPI	Centromere protein I	RP5-1188J21.1, CENP-I, FSHPRH1, LRPR1, Mis6	

CENPV	Centromere protein V	3110013H01Rik, CENP-V, PRR6, p30	
CENPW	Centromere protein W	C6orf173, CENP-W, CUG2	
CEP110			
CEP120	Centrosomal protein 120 kDa	CCDC100	
CEP135	Centrosomal protein 135 kDa	CEP4, KIAA0635, MCPH8	
CEP192	Centrosomal protein 192 kDa	PP8407, PPP1R62	
CEP350	Centrosomal protein 350 kDa	RP11-502H18.1, CAP350, GM133	
CEP55	Centrosomal protein 55 kDa	RP11-30E16.2, C10orf3, CT111, URCC6	
CEP57	Centrosomal protein 57 kDa	MVA2, PIG8, TSP57	
CEP63	Centrosomal protein 63 kDa	SCKL6	
CEP68	Centrosomal protein 68 kDa	KIAA0582	
CEP72	Centrosomal protein 72 kDa		
CEP78	Centrosomal protein 78 kDa	RP11-336N8.5, C9orf81, IP63	
CEPT1	Choline/ethanolamine phosphotransferase 1	PRO1101	
CER1	Cerberus 1, DAN family BMP antagonist	DAND4	
CES2	Carboxylesterase 2	CE-2A1, PCE-2, iCE, CES2	
CES7			
CETN3	Centrin, EF-hand protein, 3	CDC31, CEN3	
CFL1	Cofilin 1 (non-muscle)	CFL, HEL-S-15	
CFL2	Cofilin 2 (muscle)	NEM7	
CFLAR	CASP8 and FADD-like apoptosis regulator	CASH, CASP8AP1, CLARP, Casper, FLAME, FLAME-1, FLAME1, FLIP, I-FLICE, MRIT, c-FLIP, c-FLIPL, c-	
CFLP1	Cofilin 1 (non-muscle) pseudogene 1		
CFP	Complement factor properdin	BFD, PFC, PFD, PROPERDIN	
CGGBP1	CGG triplet repeat binding protein 1	CGGBP, p20-CGGBP	
CGN	Cingulin	RP11-74C1.3	
CGNL1	Cingulin-like 1	JACOP	
CGRRF1	Cell growth regulator with ring finger domain 1	CGR19, RNF197	
CH25H	Cholesterol 25-hydroxylase	C25H	
CHAT	Choline O-acetyltransferase	CHOACTASE, CMS1A, CMS1A2	
CHCHD1	Coiled-coil-helix-coiled-coil-helix domain containing 1	C10orf34, C2360, MRP-S37	
CHCHD5	Coiled-coil-helix-coiled-coil-helix domain containing 5	C2orf9, MIC14	
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7	COX23	√
CHCHD8			

CHD1	Chromodomain helicase DNA binding protein 1		
CHD2	Chromodomain helicase DNA binding protein 2	EEOC	
CHD3	Chromodomain helicase DNA binding protein 3	Mi-2a, Mi2-ALPHA, ZFH	
CHD5	Chromodomain helicase DNA binding protein 5	RP1-233K16.2, CHD-5	
CHD6	Chromodomain helicase DNA binding protein 6	RP4-620E11.2, CHD-6, CHD5, RIGB	
CHD7	Chromodomain helicase DNA binding protein 7	CRG, HH5, IS3, KAL5	
CHD9	Chromodomain helicase DNA binding protein 9	AD-013, AD013, CReMM, KISH2, PRIC320	
CHERP	Calcium homeostasis endoplasmic reticulum protein	DAN16, SCAF6, SRA1	
CHGA	Chromogranin A (parathyroid secretory protein 1)	CGA	
CHIC1	Cysteine-rich hydrophobic domain 1	RP11-108A15.1, BRX	
CHKA	Choline kinase alpha	CHK, CK, CKI, EK	
CHL1	Cell adhesion molecule L1-like	CALL, L1CAM2	
CHM	Choroideremia (Rab escort protein 1)	RP1-93L7.1, DXS540, GGTA, HSD-32, REP-1, TCD	
CHML	Choroideremia-like (Rab escort protein 2)	REP2	
CHMP1B	Charged multivesicular body protein 1B	C16orf2, C16-ORF2, C16orf2, CHMP1.5, Vps46-2, Vps46B, hVps46-2	
CHMP2B	Charged multivesicular body protein 2B	CGI-84, ALS17, CHMP2.5, DMT1, VPS2-2, VPS2B	
CHMP4C	Charged multivesicular body protein 4C	SNF7-3, Shax3, VPS32C	
CHMP7	Charged multivesicular body protein 7		
CHN1	Chimerin 1	ARHGAP2, CHN, DURS2, NC, RHOGAP2	√
CHN2	Chimerin 2	tcag7.1311, ARHGAP3, BCH-3, RHOGAP3, CHN2	
CHORDC1	Cysteine and histidine-rich domain (CHORD) containing 1	CHP1	
CHP			
CHPT1	Choline phosphotransferase 1	MSTP022, CPT, CPT1	
CHRDL1	Chordin-like 1	RP6-141H5.1, CHL, MGC1, MGCN, NRLN1, VOPT, dA141H5.1	
CHRM2	Cholinergic receptor, muscarinic 2	HM2	
CHRM5	Cholinergic receptor, muscarinic 5	HM5	
CHRNA1	Cholinergic receptor, nicotinic, alpha 1 (muscle)	ACHRA, ACHRD, CHRNA, CMS2A, FCCMS, SCCMS	
CHRNA3	Cholinergic receptor, nicotinic, alpha 3 (neuronal)	LNCR2, NACHRA3, PAOD2	
CHRNA7	Cholinergic receptor, nicotinic, alpha 7 (neuronal)	CHRNA7-2, NACHRA7	
CHRNA9	Cholinergic receptor, nicotinic, alpha 9 (neuronal)	HSA243342, NACHRA9	
CHRNB2	Cholinergic receptor, nicotinic, beta 2 (neuronal)	RP11-61L14.4, EFNL3, nAChRB2	
CHRNE	Cholinergic receptor, nicotinic, epsilon (muscle)	ACHRE, CMS1D, CMS1E, CMS2A, FCCMS, SCCMS	
CHST11	Carbohydrate (chondroitin 4) sulfotransferase 11	C4ST, C4ST-1, C4ST1, HSA269537	

CHST3	Carbohydrate (chondroitin 6)	C6ST, C6ST1, HSD	
CHST6	Carbohydrate (N-acetylglucosamine 6-O)	MCDC1	
CHST9	Carbohydrate (N-acetylgalactosamine 4-0)	UNQ2549/PRO6175, GALNAC4ST-2	
CHSY3	Chondroitin sulfate synthase 3	CHSY2, CSS3	
CHTF8	CTF8, chromosome transmission fidelity	CTF8, DERPC	
CHURC1	Churchill domain containing 1	My015, C14orf52, chch	
CIAO1	Cytosolic iron-sulfur assembly component 1	CIA1, WDR39	
CIDEA	Cell death-inducing DFFA-like effector a	CIDE-A	
CIRBP	Cold inducible RNA binding protein	CIRP	
CIRH1A	Cirrhosis, autosomal recessive 1A (cirhin)	CIRHIN, NAIC, TEX292, UTP4	
CISD1	CDGSH iron sulfur domain 1	MDS029, C10orf70, ZCD1, mitoNEET	
CISH	Cytokine inducible SH2-containing protein	BACTS2, CIS, CIS-1, G18, SOCS	
CIT	Citron rho-interacting serine/threonine	CRIK, STK21	
CITED2	Cbp/p300-interacting transactivator, with	ASD8, MRG-1, MRG1, P35SRJ, VSD2	
CKAP2	Cytoskeleton associated protein 2	LB1, TMAP, se20-10	
CKAP4	Cytoskeleton associated protein 4	CLIMP-63, ERGIC-63, p63	
CKLF	Chemokine-like factor	H5PC224, C321, CKLF2, CKLF3, CKLF4, UCK-1,	
CKMT1B	Creatine kinase, mitochondrial 1B	CKMT, CKMT1, UMTCK	
CKS1B	CDC28 protein kinase regulatory subunit 1B	RP11-307C12.6, CKS1, PNAS-16, PNAS-18, ckshs1	
CLASP1	Cytoplasmic linker associated protein 1	MAST1	
CLASP2	Cytoplasmic linker associated protein 2		
CLCA3P	Chloride channel accessory 3, pseudogene	CLCA3	
CLCC1	Chloride channel CLIC-like 1	RP11-475E11.6, MCLC	
CLCN2	Chloride channel, voltage-sensitive 2	CIC-2, CLC2, ECA2, ECA3, EGI1, EGI3, EGMA,	
CLCN4	Chloride channel, voltage-sensitive 4	CLC4, ClC-4, ClC-4A	
CLCN5	Chloride channel, voltage-sensitive 5	CLC5, CLCR2, CIC-5, DENT3, NPHL1, NPHL2, XLRH,	
CLCN6	Chloride channel, voltage-sensitive 6	RP5-934G17.1, CLC-6	
CLDN10	Claudin 10	RP11-23E3.4, CPETRL3, OSP-L	
CLDN12	Claudin 12		
CLDN18	Claudin 18	UNQ778/PRO1572, SFTA5, SFTPJ	
CLDN19	Claudin 19	HOMG5	
CLDN20	Claudin 20		
CLDN4	Caudin 4	CPE-R, CPER, CPETR, CPETR1, WBSCR8, hCPE-R	

CLDN8	Caudin 8	UNQ779/PRO1573	
CLDND1	Claudin domain containing 1	HSPC174, C3orf4, GENX-3745	
CLEC12A	C-type lectin domain family 12, member A	CLL-1, CLL1, DCAL-2, MICL	
CLEC16A	C-type lectin domain family 16, member A	Gop-1, KIAA0350	
CLEC17A	C-type lectin domain family 17, member A		
CLEC18B	C-type lectin domain family 18, member B	UNQ306/PRO347, MRCL2	
CLEC1B	C-type lectin domain family 1, member B	UNQ721/PRO1384, 1810001H15Rik, CLEC2, CLEC2B, PRO1384, QDFD721	
CLEC2D	C-type lectin domain family 2, member D	CLAX, LLT1, OCIL	
CLEC3A	C-type lectin domain family 3, member A	UNQ700/PRO1345, CLECSF1	
CLEC4D	C-type lectin domain family 4, member D	CLEC-6, CLEC6, CLECSF8, MCL, MPCL	
CLECL1	C-type lectin-like 1	DCAL-1, DCAL1	
CLIC2	Chloride intracellular channel 2	RP13-228J13.7b, MRXS32, XAP121, CLIC2	
CLIC6	Chloride intracellular channel 6	CLIC1L	
CLINT1	Clathrin interactor 1	CLINT, ENTH, EPN4, EPNR	
CLIP1	CAP-GLY domain containing linker protein 1	CLIP, CLIP-17070, CYLN1, RSN, CLIP1	
CLK1	CDC-like kinase 1	CLK, CLK/STY, STY	
CLK4	CDC-like kinase 4		
CLLU1	Chronic lymphocytic leukemia up-regulated 1		
CLLU1OS	Chronic lymphocytic leukemia up-regulated 1 opposite strand		
CLMN	Calmin (calponin-like, transmembrane)		
CLN8	Ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	C8orf61, EPMR	
CLOCK	Clock circadian regulator	KAT13D, bHLHe8	
CLRN1OS			
CLSTN1	Calsyntenin 1	KPT1-358F24.5, ALC-ALPHA, CDHR12, CSTN1, PIK3CD, XB21alpha, alcalpha1, alcalpha2	
CLSTN2	Calsyntenin 2	ALC-GAMMA, CDHR13, CS2, CSTN2, alcagamma	
CLTA	Clathrin, light chain A	LCA	
CLTC	Clathrin, heavy chain (Hc)	CHC, CHC17, CLH-17L2, Hc, CLTC	√
CLUAP1	Clusterin associated protein 1	CFAP22, FAP22	
CLUL1	Clusterin-like 1 (retinal)	RA337M	
CLVS1	Clavesin 1	CRALBPL, RLBP1L1	
CMAH			
CMAS	Cytidine monophosphate N-acetylneuraminic acid synthetase	CSS	
CMPK1	Cytidine monophosphate (UMP-CMP) kinase 1, cytosolic	KPT1-511H2.1, CK, CMK, CMPK, UMK, UMP-CMPK, UMPK	

CMPK2	Cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	TMPK2, TYKi, UMP-CMPK2	
CMTM1	CKLF-like MARVEL transmembrane domain-containing 1	CKLFH, CKLFH1, CKLFSF1	
CMTM4	CKLF-like MARVEL transmembrane domain-containing 4	CKLFSF4	
CMTM6	CKLF-like MARVEL transmembrane domain-containing 6	CKLFSF6, PRO2219	
CMTM8	CKLF-like MARVEL transmembrane domain-containing 8	CKLFSF8, CKLFSF8-V2	
CNBP	CCHC-type zinc finger, nucleic acid binding protein	CNBP1, DM2, PROMM, RNF163, ZCCHC22, ZNF9	
CNDP1	Carnosine dipeptidase 1 (metallopeptidase M20 family)	UNQ1915/PRO4380, CN1, CPGL2, HsT2308	
CNGB1	Cyclic nucleotide gated channel beta 1	CNCG2, CNCG3L, CNCG4, CNG4B, GAR1, GARP, GARP2, RCNC2, RCNCb, RCNCbeta, RP45, CNGB1	
CNIH3	Cornichon family AMPA receptor auxiliary protein 3	RP11-3L21.1, CNIH-3	
CNIH4	Cornichon family AMPA receptor auxiliary protein 4	HSPC163, CNIH-4	
CNKSR3	CNKSR family member 3	RP11-486M3.1, MAGI1	
CNNM1	Cyclin and CBS domain divalent metal cation transport mediator 1	ACDP1, CLP-1	
CNNM2	Cyclin and CBS domain divalent metal cation transport mediator 2	RP11-30H12.1, ACDP2	
CNNM3	Cyclin and CBS domain divalent metal cation transport mediator 3	ACDP3	
CNO			
CNOT1	CCR4-NOT transcription complex, subunit 1	AD-005, CDC39, NOT1, NOT1H	
CNOT10	CCR4-NOT transcription complex, subunit 10		
CNOT2	CCR4-NOT transcription complex, subunit 2	HSPC131, CDC36, NOT2, NOT2H	
CNOT4	CCR4-NOT transcription complex, subunit 4	CLONE243, NOT4, NOT4H	
CNOT6	CCR4-NOT transcription complex, subunit 6	CCR4, Ccr4a	
CNOT6L	CCR4-NOT transcription complex, subunit 6-like	CCR4b	
CNOT8	CCR4-NOT transcription complex, subunit 8	CAF1, CALIF, Caf1b, POP2, hCAF1	
CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	CNP1	
CNPY1	canopy FGF signaling regulator 1	tcag7.570	
CNR1	Cannabinoid receptor 1 (brain)	RP1-25D17.1, CANN6, CB-R, CB1, CB1A, CB1K5, CB1R, CNR	
CNST	Consortin, connexin sorting protein	RP11-452J6.1, C1orf71, PPP1R64	
CNTLN	Centlein, centrosomal protein	RP11-163F8.4, C9orf101, C9orf39, bA340N12.1	
CNTN1	Contactin 1	F3, GP135, MYPCN	
CNTN2	Contactin 2 (axonal)	AXT, FAME5, TAG-1, TAX, TAX1	
CNTN3	Contactin 3 (plasmacytoma associated)	BIG-1, PANG, PCS	
CNTN4	Contactin 4	AXCAM, BIG-2	
CNTN5	Contactin 5	HNB-2s, NB-2	
CNTNAP1	Contactin associated protein 1	CASPR, CNTNAP, NRXN4, P190	

CNTNAP2	Contactin associated protein-like 2	AUTS15, CASPR2, CDFE, NRXN4, PTHSL1	
CNTNAP3	Contactin associated protein-like 3	RP11-138L21.1, CASPR3A, CNTNAP3	
CNTNAP3B	Contactin associated protein-like 3B	AL353791.1	
CNTNAP3B	Contactin associated protein-like 3B	AL353791.1	
CNTNAP4	Contactin associated protein-like 4	CASPR4	
COASY	CoA synthase	PSEC0106, DPCK, NBIA6, NBP, PPAT, UKR1, pOV-2	
COBL	Cordon-bleu WH2 repeat protein		
COG3	Component of oligomeric golgi complex 3	SEC34	
COG5	Component of oligomeric golgi complex 5	CDG2I, GOLTC1, GTC90	
COG6	Component of oligomeric golgi complex 6	RP11-304M3.3, CDG2L, COD2, SHNS	
COIL	Coilin	CLN80, p80-coilin	
COL10A1	Collagen, type X, alpha 1	RP1-136O14.2	
COL16A1	Collagen, type XVI, alpha 1	FP1572, 447AA	
COL17A1	Collagen, type XVII, alpha 1	RP11-16H23.2, BA16H23.2, BP180, BPA-2, BPAG2, LAD-1	
COL19A1	Collagen, type XIX, alpha 1	RP1-138F4.1, COL9A1L, D6S228E	
COL1A2	Collagen, type I, alpha 2	OI4	
COL21A1	Collagen, type XXI, alpha 1	FP633, COLA1L, dJ682J15.1, dJ708F5.1	
COL22A1	Collagen, type XXII, alpha 1		
COL29A1			
COL3A1	Collagen, type III, alpha 1	EDS4A	
COL4A1	Collagen, type IV, alpha 1	RP11-472K17.2, HANAC, ICH, POREN1, arresten	
COL4A3BP	Collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	CERT, CERTL, GPBP, STARD11	
COL4A4	Collagen, type IV, alpha 4	CA44	
COL4A5	Collagen, type IV, alpha 5	RP6-24A23.5, ASLN, ATS, CA54	
COL5A1	Collagen, type V, alpha 1	RP11-263F14.1	
COL5A2	Collagen, type V, alpha 2		
COL6A3	Collagen, type VI, alpha 3		
COL6A4P2	Collagen, type VI, alpha 4 pseudogene 2	COL6A4	
COLQ	Collagen-like tail subunit (single strand of homotrimer) of asymmetric	EAD	
COMMD2	COMM domain containing 2	HSPC042	
COMMD6	COMM domain containing 6	RP11-173B14.2, Acrg	
COMMD8	COMM domain containing 8	MDS022	
COMT	Catechol-O-methyltransferase	HEL-S-98n	

COPA	Coatomer protein complex, subunit alpha	HEP-COP	
COPS2	COP9 signalosome subunit 2	ALIEN, CSN2, SGN2, TRIP15	
COQ10B	Coenzyme Q10 homolog B *(S. cerevisiae)*		
COQ2	Coenzyme Q2 4-hydroxybenzoate polyprenyltransferase	CL640, COQ10D1, MSA1	
COQ6	Coenzyme Q6 monooxygenase	CGI-10, CGI10, COQ10D6	
COQ7	Coenzyme Q7 homolog, ubiquinone (yeast)	CAT5, CLK-1, CLK1	
COQ9	Coenzyme Q9	HSPC326, C16orf49, COQ10D5	
CORIN	Corin, serine peptidase	ATC2, CRN, Lrp4, PEE5, TMPRSS10	
CORO1B	Coronin, actin binding protein, 1B	CORONIN-2	
CORO1C	Coronin, actin binding protein, 1C	HCRNN4	
COX10	Cytochrome c oxidase assembly homolog 10 (yeast)		
COX11	Cytochrome c oxidase assembly homolog 11 (yeast)	COX11P	
COX15	Cytochrome c oxidase assembly homolog 15 (yeast)	CEMCOX2	
COX17	COX17 cytochrome c oxidase copper chaperone		
COX19	Cytochrome c oxidase assembly homolog 19 (S. cerevisiae)		
COX4I1	Cytochrome c oxidase subunit IV isoform 1	COX4, COX4-1, COXIV	
COX4NB			
COX6B2	Cytochrome c oxidase subunit VIb polypeptide 2 (testis)	COXVIB2, CT59	
COX7A2L	Cytochrome c oxidase subunit VIIa polypeptide 2 like	COX7AR, COX7RP, EB1, SIG81	
CP	Ceruloplasmin (ferroxidase)	CP-2	
CP110			
CPA2	Carboxypeptidase A2 (pancreatic)		
CPA6	Carboxypeptidase A6	CPAH, ETL5, FEB11	
CPB2	Carboxypeptidase B2 (plasma)	CPU, PCPB, TAFI	
CPD	Carboxypeptidase D	GP180	
CPE	Carboxypeptidase E		
CPEB1	Cytoplasmic polyadenylation element binding protein 1	CEBP, CPE-BP1, CPEB, CPEB-1, hCPEB-1	
CPEB2	Cytoplasmic polyadenylation element binding protein 2	CPE-BP2, CPEB-2, hCPEB-2	
CPEB4	Cytoplasmic polyadenylation element binding protein 4		
CPLX2	Complexin 2	921-L, CPX-2, CPX2, Hfb1	
CPM	Carboxypeptidase M		
CPNE2	Copine II	COPN2, CPN2	
CPNE4	Copine IV	COPN4, CPN4	

CPOX	Coproporphyrinogen oxidase	CPO, CPX, HCP	
CPPED1	Calcineurin-like phosphoesterase domain containing 1	CSTP1	
CPSF6	Cleavage and polyadenylation specific factor 6, 68 kDa	CFIM, CFIM68, HPBRII-4, HPBRII-7	
CPT1A	Carnitine palmitoyltransferase 1A (liver)	CPT1, CPT1-L, L-CPT1	
CPT1B	Carnitine palmitoyltransferase 1B (muscle)	CPT1-M, CPT1M, CPT1, CPT1-M, M-CPT1, MCCPT1, MCPT1	
CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	MRT34, RAIDD	
CRB1	Crumbs family member 1, photoreceptor morphogenesis associated	RP11-53I24.1, LCA8, RP12	
CREB1	CAMP responsive element binding protein 1	CREB	√
CREB3	CAMP responsive element binding protein 3	LUMAN, LZIP	
CREB3L2	CAMP responsive element binding protein 3-like 2	BBF2H7	√
CREB5	cAMP responsive element binding protein 5	CRE-BPA	
CREBBP	CREB binding protein	CBP, KAT3A, RSTS	√
CREBL2	CAMP responsive element binding protein-like 2		
CREBZF	CREB/ATF bZIP transcription factor	SMILE, ZF	
CREG2	Cellular repressor of E1A-stimulated genes 2		
CREM	CAMP responsive element modulator	RP11-324I22.1-2, ICER, hCREM-2, CREM	
CRH	Corticotropin releasing hormone		
CRHBP	Corticotropin releasing hormone binding protein	CRF-BP, CRFBP	
CRIM1	Cysteine rich transmembrane BMP regulator 1 (chordin-like)	UNQ1886/PRO4330, CRIM-1, S52	
CRISPLD1	Cysteine-rich secretory protein LCCL domain containing 1	UNQ342/PRO541, CRISP-10, CRISP10, LCRISP1	
CRK	v-crk avian sarcoma virus CT10 oncogene homolog	CRKII, p38	
CRKL	v-crk avian sarcoma virus CT10 oncogene homolog-like		
CRLF3	Cytokine receptor-like factor 3	CREME-9, CREME9, CRLM9, CYTOR4, FRWS, p48.2	√
CRLS1	Cardiolipin synthase 1	C20orf155, CLS, CLS1, GCD10, dJ967N21.6	
CRNKL1	Crooked neck pre-mRNA splicing factor 1	KP3-1002M8.1, CLP, CRN, CH1, HCRN, M31P021, SYF3	
CROT	Carnitine O-octanoyltransferase	COT	
CRTAP	Cartilage associated protein	CASP, LEPREL3, OI7	
CRTC3	CREB regulated transcription coactivator 3	TORC-3, TORC3	
CRX	Cone-rod homeobox	CORD2, CRD, LCA7, OTX3	
CRY2	Cryptochrome circadian clock 2	HCRY2, PHLL2	
CRYBG3	Beta-gamma crystallin domain containing 3	DKFZp667G2110	
CRYGN	Crystallin, gamma N		
CSDA			

CSDAP1	Cold shock domain protein A pseudogene 1		
CSDE1	Cold shock domain containing E1, RNA-binding	RP5-1000E10.3, D1S155E, UNR	
CSF1	Colony stimulating factor 1 (macrophage)	RP11-195M16.2, CSF-1, MCSF	
CSF2RA	Colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	CD116, CDw116, CSF2RX, CSF2RAY, CSF2RX, CYP22-45C1.4, CD131, CDw131, IL3RB, IL3RB, SMDP4	
CSF2RB	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	UNQ050/PRO1287, CSGalNAcT-1, ChGn, beta4GalNAcT	
CSGALNACT1	Chondroitin sulfate N-acetylgalactosaminyltransferase 1	PRO0082, CHGN2, GALNACT-2, GALNACT2	
CSGALNACT2	Chondroitin sulfate N-acetylgalactosaminyltransferase 2	UNQ5952/PRO19863, PPP1R24	
CSMD1	CUB and Sushi multiple domains 1	CASB	
CSN2	Casein beta	CK1gamma1	
CSNK1G1	Casein kinase 1, gamma 1	CKI-gamma 3L, CSNK1G3	
CSNK1G3	Casein kinase 1, gamma 3	CK2A2, CSNK2A1	
CSNK2A2	Casein kinase 2, alpha prime polypeptide	C12orf2, C12orf22, FAM130A1, PPP1R72, TAIP-12	
CSRNP2	Cysteine-serine-rich nuclear protein 2	CLP, CMD1M, CMH12, CRP3, LMO4, MLP	
CSRP3	Cysteine and glycine-rich protein 3 (cardiac LIM protein)	CSTF-77	
CSTF3	Cleavage stimulation factor, 3' pre-RNA, subunit 3, 77 kDa	hCG_2039001, CT21.1, CT21.2, CTAGE, CTAGE-1, CTAGE-2	
CTAGE1	Cutaneous T-cell lymphoma-associated antigen 1	RP11-118B23.5, CTB	
CTBS	Chitobiase, di-N-acetyl-	MRD21	
CTCF	CCCTC-binding factor (zinc finger protein)	CCFDN, FCP1	
CTDP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase	OS4, PSR2, SCP2	
CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small	C3orf8, HYA22, PSR1, RBSP3, SCP3	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small	HSPC058, HSPC129	
CTDSPL2	Connective tissue growth factor	CCN2, HCS24, IGFBP8, NOV2	
CTGF	Cystathionine gamma-lyase		
CTH	Cytotoxic T-lymphocyte-associated protein 4	CD, CD152, CELIAC3, CTLA-4, GRD4, GSE, IDDM12	
CTLA4	Catenin (cadherin-associated protein), alpha 1, 102 kDa	CAP102	
CTNNA1	Catenin (cadherin-associated protein), alpha 3	RP11-433J16.1, ARVD13, VR22	
CTNNA3	Catenin (cadherin-associated protein), beta 1, 88 kDa	OK/SW-cl.35, CTNNB, MRD19, armadillo	√
CTNNB1	Catenin (cadherin-associated protein), delta 1	CAS, CTNND, P120CAS, P120CTN, p120, p120(CAS), p120(CTN)	
CTNND1	Catenin (cadherin-associated protein), delta 2	GT24, NPRAP	
CTNND2	Cystinosin, lysosomal cystine transporter	CTNS-LSB, PQLC4	
CTNS	Cathepsin B	APPS, CPSB	
CTSB	Cathepsin C	CPPI, DPP-I, DPPI, DPPI, HMS, JP, JPD, PALS, PDON1, PLS	
CTSC			

CTSE	Cathepsin E	CATE	
CTSF	Cathepsin F	CATSF, CLN13	
CTSO	Cathepsin O	CTSO1	
CTTNBP2	Cortactin binding protein 2	C7orf8, CORTBP2, Orf4	
CTTNBP2NL	CTTNBP2 N-terminal like		
CTXN2	Cortexin 2		
CTXN3	Cortexin 3	KABE	
CUBN	Cubilin (intrinsic factor-cobalamin receptor)	RP11-416D8.1, IFCR, MGA1, gp280	
CUL3	Cullin 3	CUL-3, PHA2E	
CUL4A	Cullin 4A	RP11-391H12.1	
CUL4B	Cullin 4B	CUL-4B, MRXHF2, MRXS15, MRXSC, SFM2	
CUL5	Cullin 5	VACM-1, VACM1	
CUTC	CutC copper transporter	CGI-32	
CUX1	Cut-like homeobox 1	CASP, CDP, CDP/Cut, CDP1, COY1, CUTL1, CUX, Clox, Cux/CDP, GOLIM6, Nbla10217, p100, p110, p200	
CUX2	Cut-like homeobox 2	CDP2, CUTL2	
CX3CL1	Chemokine (C-X3-C motif) ligand 1	A-152E5.2, ABCD-3, C3Xkine, CXC3, CXC3C, NTN, NTT, SCYD1, fractalkine, neurotactin	
CXADRP2	Coxsackie virus and adenovirus receptor pseudogene 2		
CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity,	FSP, GRO1, GROa, MGSA, MGSA-a, NAP-3, SCYB1	
CXCL12	Chemokine (C-X-C motif) ligand 12	IRH, PBSF, SCYB12, SDF1, TLSF, TPAR1	
CXCL17	Chemokine (C-X-C motif) ligand 17	UNQ473/PRO842, DMC, Dcip1, UNQ473, VCC-1, VCC1	
CXCL2	Chemokine (C-X-C motif) ligand 2	CINC-2a, GRO2, GROb, MGSA-b, MIP-2a, MIP2, MIP2A, SCYB2	
CXCL3	Chemokine (C-X-C motif) ligand 3	CINC-2b, GRO3, GROg, MIP-2b, MIP2B, SCYB3	
CXCL5	Chemokine (C-X-C motif) ligand 5	ENA-78, SCYB5	
CXCR2P1	Chemokine (C-X-C motif) receptor 2 pseudogene 1		
CXCR6	Chemokine (C-X-C motif) receptor 6	BONZO, CD186, STRL33, TYMSTR	
CXorf21	Chromosome X open reading frame 21		
CXorf22	Chromosome X open reading frame 22	RP11-307A17.1	
CXorf23	Chromosome X open reading frame 23	RP11-24O6.3	
CXorf30	Chromosome X open reading frame 30	RP11-87M18.1	
CXorf36	Chromosome X open reading frame 36	hCG_1981633, 4930578C19Rik, DIA1R, EPQL1862, PRO2742, bA425K1.1	
CXorf40A	Chromosome X open reading frame 40A	XX-FW81066F1.1, CXorf40, EOLA1	
CXorf40B	Chromosome X open reading frame 40B		
CXorf48			

CYB561D1	Cytochrome b561 family, member D1	RP5-831G13.3	
CYB5B	Cytochrome b5 type B (outer mitochondrial membrane)	RP11-140H17.1, CYB5-M, CYPB5M, OMB5	
CYB5D1	Cytochrome b5 domain containing 1		
CYB5R2	Cytochrome b5 reductase 2	B5R.2	
CYB5R4	Cytochrome b5 reductase 4	RP4-676J13.1, NCB5OR, cb5/cb5R, dJ676J13.1	
CYBB	Cytochrome b-245, beta polypeptide	AMCBX2, CGD, GP91-1, GP91-PHOX, GP91PHOX, IMD24, NOX2, p91-PHOX	
CYGB	Cytoglobin	HGB, STAP	
CYLD	Cylindromatosis (turban tumor syndrome)	H5PC037, BRS3, CDMT1, CYLDI, EAC, MFT, MFT1, SBS, TEM, USPL2, CYLD	√
CYMP	Chymosin pseudogene	RP11-470L19.3	
CYorf15A			
CYP11B1	Cytochrome P450, family 11, subfamily B, polypeptide 1	CPN1, CYP11B, FHI, P450C11	
CYP19A1	Cytochrome P450, family 19, subfamily A, polypeptide 1	ARO, ARO1, CPV1, CYAR, CYP19, CYPXIX, P-450AROM	
CYP1B1	Cytochrome P450, family 1, subfamily B, polypeptide 1	CP1B, CYPIB1, GLC3A, P4501B1	
CYP20A1	Cytochrome P450, family 20, subfamily A, polypeptide 1	UNQ667/PRO1301, CYP-M	
CYP26A1	Cytochrome P450, family 26, subfamily A, polypeptide 1	RP11-348J12.1, CP26, CYP26, P450RAI, P450RAI1	
CYP26B1	Cytochrome P450, family 26, subfamily B, polypeptide 1	CYP26A2, P450RAI-2, P450RAI2, RHFCA	
CYP2B7P1			
CYP2C18	Cytochrome P450, family 2, subfamily C, polypeptide 18	RP11-466J14.4, CPCI, CYP2C, CYP2C17, P450-6B/29C, P450IIC17	
CYP2C8	Cytochrome P450, family 2, subfamily C, polypeptide 8	CPC8, CYPIIC8, MP-12/MP-20	
CYP2R1	Cytochrome P450, family 2, subfamily R, polypeptide 1		
CYP2U1	Cytochrome P450, family 2, subfamily U, polypeptide 1	P450TEC, SPG49, SPG56	
CYP39A1	Cytochrome P450, family 39, subfamily A, polypeptide 1		
CYP3A43	Cytochrome P450, family 3, subfamily A, polypeptide 43		
CYP46A1	Cytochrome P450, family 46, subfamily A, polypeptide 1	CP46, CYP46	
CYP4A11	Cytochrome P450, family 4, subfamily A, polypeptide 11	CP4Y, CYP4A2, CYP4AII	
CYP4F11	Cytochrome P450, family 4, subfamily F, polypeptide 11	CYPIVF11	
CYP4F2	Cytochrome P450, family 4, subfamily F, polypeptide 2	CPF2	
CYP4F3	Cytochrome P450, family 4, subfamily F, polypeptide 3	CPF3, CYP4F, LTB4H	
CYP4V2	Cytochrome P450, family 4, subfamily V, polypeptide 2	UNQ2560, BCD, CYP4AH1	
CYP7A1	Cytochrome P450, family 7, subfamily A, polypeptide 1	CP7A, CYP7, CYPVII	
CYR61	Cysteine-rich, angiogenic inducer, 61	CCN1, GIG1, IGFBP10	
CYS1	Cystin 1		
CYTSA			

CYTSB			
D2HGDH	D-2-hydroxyglutarate dehydrogenase	hCG_31745, D2HGD	
D4S234E			
DAAM1	Dishevelled associated activator of morphogenesis 1		
DAB2IP	DAB2 interacting protein	RP11-298A17.1, AF9Q34, AIP-1, AIP1, DIP1/2	
DACH1	Dachshund family transcription factor 1	RP11-512J14.1, DACH	
DACH2	Dachshund family transcription factor 2	RP11-345E19.1	
DACT1	Dishevelled-binding antagonist of beta-catenin 1	DAPPER, DAPPER1, DPR1, FRODO, HDPR1, THYEX2	
DACT3	Dishevelled-binding antagonist of beta-catenin 3	DAPPER3, RRR1	
DAD1	Defender against cell death 1	OST2	
DAGLB	Diacylglycerol lipase, beta	tcag7.842ETA, KCCR13L, DAGLB	
DAK	Dihydroxyacetone kinase 2 homolog (S. cerevisiae)	NET45	
DALRD3	DALR anticodon binding domain containing 3		
DAOA	D-amino acid oxidase activator	RP11-166E2.2, LG72, SG72	
DAPP1	Dual adaptor of phosphotyrosine and 3-phosphoinositides	HSPC066, BAM32	
DARS	Aspartyl-tRNA synthetase	PIG40, HBSL, aspRS	
DAXX	Death-domain associated protein	DADB-159G18.9, BING2, DAP6, EAP1	√
DAZ1	Deleted in azoospermia 1	DAZ, SPGY	
DAZ2	Deleted in azoospermia 2	pDP1678	
DAZ3	Deleted in azoospermia 3	pDP1679	
DAZ4	Deleted in azoospermia 4	pDP1680, pDP1681	
DAZAP2	DAZ associated protein 2	PRTB	
DAZL	Deleted in azoospermia-like	DAZH1, DAZLA, SPGYLA, DAZL	
DBF4B	DBF4 zinc finger B	UNQ3002, ASKL1, CHIFB, DRF1, ZDBF1B	
DBT	Dihydrolipoamide branched chain transacylase E2	RP11-505E17.3, BCAT2, BCKAD-E2, BCKADE2, E2, E2B	
DBX2	Developing brain homeobox 2		
DCAF11	DDB1 and CUL4 associated factor 11	GL014, PRO2389, WDR23	
DCAF12L1	DDB1 and CUL4 associated factor 12-like 1	KIAA1892L, WDR40B	
DCAF16	DDB1 and CUL4 associated factor 16	C4orf30	
DCAF17	DDB1 and CUL4 associated factor 17	C2orf37	
DCAF4	DDB1 and CUL4 associated factor 4	WDR21, WDR21A	
DCAF4L1	DDB1 and CUL4 associated factor 4-like 1	WDR21B	
DCAF4L2	DDB1 and CUL4 associated factor 4-like 2	WDR21C	

DCAF5	DDB1 and CUL4 associated factor 5	BCRG2, BCRP2, D14S1461E, WDR22	
DCAF6	DDB1 and CUL4 associated factor 6	RP4-745H14.1, 1200006M05Rik, ARCAP, IQWD1, MSTP055, NBIP, PC326	
DCAF8	DDB1 and CUL4 associated factor 8	RP11-574F21.1, GAN2, H326, WDR42A	
DCBLD1	Discoidin, CUB and LCCL domain containing 1	RP1-94G16.1, dJ94G16.1	
DCBLD2	Discoidin, CUB and LCCL domain containing 2	CLCP1, ESDN	
DCC	DCC netrin 1 receptor	CRC18, CRCR1, IGDCC1, MRMV1, NTN1R1	
DCLK1	Doublecortin-like kinase 1	RP11-113P14.1, CL1, CLICK1, DCAMKL1, DCDC3A, DCLK	
DCLK2	Doublecortin-like kinase 2	CL2, CLICK-II, CLICK2, CLIK2, DCAMKL2, DCDC3, DCDC3B, DCK2	
DCLK3	Doublecortin-like kinase 3	hCG_16695, CLR, DCAMKL3, DCDC3C, DCK3	
DCLRE1C	DNA cross-link repair 1C	RP11-398C13.3, A-SCID, DCLREC1C, K3-SCID, SCIDA, SNM1C	
DCN	Decorin	CSCD, DSPG2, PG40, PGII, PGS2, SLRR1B	
DCP1A	Decapping mRNA 1A	HSA275986, Nbla00360, SMAD4IP1, SMIF	
DCP2	Decapping mRNA 2	NUDT20	
DCTD	DCMP deaminase		
DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1	DCNL1, DCUN1L1, RP42, SCCRO, SCRO, Tes3	
DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2	RP11-102K13.4, C13orf17	
DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4		
DCX	Doublecortin	RP5-914P14.1, DBCN, DC, LISX, SCLH, XLIS	
DDAH1	Dimethylarginine dimethylaminohydrolase 1	RP4-621F18.1, DDAH, HEL-S-16	
DDHD1	DDHD domain containing 1	PA-PLA1, PAPLA1, SPG28	
DDHD2	DDHD domain containing 2	SAMWD1, SPG54, iPLA(1)gamma	
DDI2	DNA-damage inducible 1 homolog 2 (S. cerevisiae)	RP4-680D5.5	
DDIT4	DNA-damage-inducible transcript 4	RP11-442H21.1, Dig2, REDD-1, REDD1	
DDO	D-aspartate oxidase	RP1-261K5.2, DASOX-1, DDO-2, DDO	
DDTL	D-dopachrome tautomerase-like	KB-226F1.2	
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	HRH-J8	√
DDX12	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 12 (CHL1-like helicase)	CHLR2	
DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	MrDb	
DDX19A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19A	DDX19-DDX19L, DDX19L	
DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	DP103, GEMIN3	
DDX21	DEAD (Asp-Glu-Ala-Asp) box helicase 21	GUA, GURDB, RH-II/GU, RH-II/GuA	
DDX25	DEAD (Asp-Glu-Ala-Asp) box helicase 25	GRTH	
DDX26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	RP11-432N13.1	

DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31	PPP1R25	
DDX3X	DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked	DBX, DDX14, DDX3, HLP2	
DDX3Y	DEAD (Asp-Glu-Ala-Asp) box helicase 3, Y-linked	DBY	
DDX43	DEAD (Asp-Glu-Ala-Asp) box polypeptide 43	CT13, HAGE	
DDX46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	PRPF5, Prp5	
DDX47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47	E4-DBP, HQ0256, MSTP162, RRP3	
DDX5	DEAD (Asp-Glu-Ala-Asp) box helicase 5	G17P1, HLR1, HUMP68, p68	√
DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	GU2, GUB, RH-II/GuB, mcdrh	
DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51		
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	HUSSY-19, HUSSY19, ROK1	
DDX55	DEAD (Asp-Glu-Ala-Asp) box polypeptide 55		
DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	RP11-334P12.2, RIG-I, RIGI, RLR-1	
DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60		
DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like		
DEC1	Deleted in esophageal cancer 1	CTS9	
DEF8	Differentially expressed in FDCP 8 homolog (mouse)		
DEFA4	Defensin, alpha 4, corticostatin	DEF4, HNP-4, HP-4, HP4	
DEFB132	Defensin, beta 132	RP5-1103G7.1, DEFB32, UNQ827	
DEK	DEK proto-oncogene	D6S231E	√
DEM1			
DENND1A	DENN/MADD domain containing 1A	RP11-230L22.3, FAM31A, KIAA1608	
DENND1B	DENN/MADD domain containing 1B	RP11-53I24.2, C1ORF18, C1orf218, FAM31B	
DENND3	DENN/MADD domain containing 3		
DENND4A	DENN/MADD domain containing 4A	IRLB, MYCPBP	
DENND4B	DENN/MADD domain containing 4B	hCG_18235, KIAA0476	
DENND4C	DENN/MADD domain containing 4C	RP11-513M16.1, C9orf55, C9orf55B, bA513M16.3	
DENND5B	DENN/MADD domain containing 5B		
DEPDC1	DEP domain containing 1	DEP.8-V2, DEPDC1A, SDP35, DEPDC1	
DEPDC5	DEP domain containing 5	LL22NC03-113A11.1, DEP.5, FFEVF	
DEPDC6			
DERL1	Derlin 1	UNQ243/PRO276, DER-1, DER1	
DFFB	DNA fragmentation factor, 40 kDa, beta polypeptide (caspase-activated DNase)	RP13-531C17.1, CAD, CPAN, DFF-40, DFF2, DFF40	
DGCR2	DiGeorge syndrome critical region gene 2	DGS-C, IDD, LAN, SEZ-12	

DGCR5	DiGeorge syndrome critical region gene 5 (non-protein coding)	LINC00037, NCRNA00037	
DGCR8	DGCR8 microprocessor complex subunit	LP4941, C22orf12, DGCRK6, Gy1, pasha	
DGKB	Diacylglycerol kinase, beta 90 kDa	DAGK2, DGK, DGK-BETA	
DGKD	Diacylglycerol kinase, delta 130 kDa	DGKdelta, dgkd-2	
DGKE	Diacylglycerol kinase, epsilon 64 kDa	DAGK5, DAGK6, DGK, NPHS7	
DGKH	Diacylglycerol kinase, eta	RP11-215B13.1, DGKeta	
DGKI	Diacylglycerol kinase, iota	DGK-IOTA	
DHCR24	24-Dehydrocholesterol reductase	DCE, Nbla03646, SELADIN1, seladin-1	
DHDPSL	4-Hydroxy-2-oxoglutarate aldolase 1	RP11-348K23.5, C16orf65, DHDPS2, DHDPSL, HP3, NPL2	
DHODH	Dihydroorotate dehydrogenase (quinone)	DHOdehase, POADS, URA1	
DHRS2	Dehydrogenase/reductase (SDR family) member 2	HEP27, SDR25C1	
DHRS4L2	Dehydrogenase/reductase (SDR family) member 4 like 2	SDR25C3	
DHRS9	Dehydrogenase/reductase (SDR family) member 9	UNQ835/PRO1775, 3-alpha-HSD, 3ALPHA-HSD, KDH-F3, RDH-TBF, RDH15, RDHL, RDHTBF, RFTSDR8	
DHRSX	Dehydrogenase/reductase (SDR family) X-linked	RP11-325D5.2, CX0n11, DHRS5X, DHRS5YT, DHRSY, SDR46G1, SDR7C6, DHRSX	
DHTKD1	Dehydrogenase E1 and transketolase domain containing 1	AMOXAD, CMT2Q	
DHX15	DEAH (Asp-Glu-Ala-His) box helicase 15	DBP1, DDX15, HRH2, PRP43, PRPF43, PrPp43p	
DHX29	DEAH (Asp-Glu-Ala-His) box polypeptide 29	DDX29	
DHX33	DEAH (Asp-Glu-Ala-His) box polypeptide 33	DDX33	
DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 33	DDX33	
DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40	ARG147, DDX40, PAD	
DHX57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	DDX57	
DIAPH1	Diaphanous-related formin 1	DFNA1, DIA1, DRF1, LFHL1, hDIA1	
DIAPH3	Diaphanous-related formin 3	RP11-26P21.1, AN, AUNA1, DIA2, DRF3, NSDAN, dian2, mDia2	
DICER1	Dicer 1, ribonuclease type III	DCR1, Dicer, Dicer1e, HERNA, MNG1, RMSE2	√
DIDO1	Death inducer-obliterator 1	RP5-885L7.1, BYE1, C20orf158, DATF-1, DATF1, DIDO2, DIDO3, DIO-1, DIO1, dJ885L7.8	
DIO2	Deiodinase, iodothyronine, type II	5DII, D2, DIOII, SelY, TXDI2	
DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)	C21orf106, DIP2	
DIP2B	DIP2 disco-interacting protein 2 homolog C (Drosophila)	RP11-486H9.2, KIAA0934	
DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	RP11-486H9.2, KIAA0934	
DIRAS3	DIRAS family, GTP-binding RAS-like 3	ARHI, NOEY2	
DIRC1	Disrupted in renal carcinoma 1		
DIS3	DIS3 exosome endonuclease and 3'-5' exoribonuclease	RP11-342J4.3, 2810026N01Rik, EXOSC11, KIAA1008, RRP44, dis3p	
DIS3L	DIS3 like exosome 3'-5' exoribonuclease	DIS3L1	

DIS3L2	DIS3 like 3'-5' exoribonuclease 2	FAM6A, PRLMNS, hDIS3L2	
DISC1	Disrupted in schizophrenia 1	RP4-730B13.1, C1orf136, SCZD9	
DIXDC1	DIX domain containing 1	CCD1	
DKC1	Dyskeratosis congenita 1, dyskerin	CBF5, DKC, DKCX, NAP57, NOLA4, XAP101	
DKFZP434L187	Uncharacterized LOC26082		
DKFZp686D0652			
DKFZp686O1527			
DKFZP781G0119			
DKK1	Dickkopf WNT signaling pathway inhibitor 1	UNQ492/PRO1008, DKK-1, SK	
DKK3	Dickkopf WNT signaling pathway inhibitor 3	UNQ258/PRO295, REIC, RIG	
DLC1	DLC1 Rho GTPase activating protein	ARHGAP7, HP, STARD12, p122-RhoGAP	
DLD	Dihydrolipoamide dehydrogenase	tcag7.39D, DLDH, E3, GCSL, LAD, PHE3, DLD	
DLEU1	Deleted in lymphocytic leukemia 1 (non-protein coding)	RP11-175B12.1, BCM3, BCM31, DLB1, DLEU2, LEU1, LEU2, LINC00021, NCRNA00021, XTP6	
DLEU7	Deleted in lymphocytic leukemia, 7		
DLG1	Discs, large homolog 1 (Drosophila)	DLGH1, SAP-97, SAP97, dJ1061C18.1.1, hdlg	
DLG2	Discs, large homolog 2 (Drosophila)	PPP1R58, PSD-93, PSD93, chapsyn-110	
DLGAP1	Discs, large (Drosophila) homolog-associated protein 1	DAP-1, DAP-1-ALPHA, DAP-1-BETA, DAP1A, DLGAP1B, GKAP, SAPAP1, hGKAP, DLGAP1	
DLGAP2	Discs, large (Drosophila) homolog-associated protein 2	DAP2, SAPAP2	
DLGAP5	Discs, large (Drosophila) homolog-associated protein 5	DLG7, HURP	
DLK2	Delta-like 2 homolog (Drosophila)	RP5-895C5.2, DLK-2, EGFL9	
DLL1	Delta-like 1 (Drosophila)	UNQ146/PRO172, DELTA1, DL1, Delta	
DLL4	Delta-like 4 (Drosophila)	UNQ1895/PRO4341, hdelta2	
DLX1	Distal-less homeobox 1		
DLX3	Distal-less homeobox 3	AI4, TDO	
DLX5	Distal-less homeobox 5	SHFM1D	
DLX6	Distal-less homeobox 6		
DMAP1	DNA methyltransferase 1 associated protein 1	RP5-891H21.2, DNMAP1, DNMTAP1, EAP2, MEAP2, SWC4	
DMBX1	Diencephalon/mesencephalon homeobox 1	MBX, OTX3, PAXB	
DMC1	DNA meiotic recombinase 1	RP1-199H16.4H, LIM15, dJ199H16.1, DMC1	
DMGDH	Dimethylglycine dehydrogenase	DMGDHD, ME2GLYDH	
DMP1	Dentin matrix acidic phosphoprotein 1	ARHP, ARHR, DMP-1	
DMRT1	Doublesex and mab-3 related transcription factor 1	CT154, DMT1	
DMRT3	doublesex and mab-3 related transcription factor 3	RP11-143M15.2, DMRTA3	

DMRTC1	DMRT-like family C1		
DMTF1	Cyclin D binding myb-like transcription factor 1	DMP1, DMTF, MRUL, hDMP1	
DMWD	Dystrophia myotonica, WD repeat containing	D19S593E, DMR-N9, DMRN9, gene59	
DMXL1	Dmx-like 1		
DNAH14	Dynein, axonemal, heavy chain 14	RP11-328N1.1, C1orf67, Dnahc14, HL-18, HL18	
DNAH5	Dynein, axonemal, heavy chain 5	CILD3, DNAHC5, HL1, KTGNR, PCD	
DNAH8	Dynein, axonemal, heavy chain 8	RP1-202I21.7, ATPase, hdhc9	
DNAH9	Dynein, axonemal, heavy chain 9	DNAH17L, DNEL1, DYH9, Dnahc9, HL-20, HL20	
DNAJA2	DnaJ (Hsp40) homolog, subfamily A, member 2	CPR3, DJ3, DJA2, DNAJ, DNJ3, HIRIP4, PRO3015, RDI2	
DNAJA3	DnaJ (Hsp40) homolog, subfamily A, member 3	HCA57, TID1, hTID-1	
DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4	MST104, MSTP104, PRO1472	
DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	HSPF1, Hdj1, Hsp40, RSPH16B, Sis1	
DNAJB12	DnaJ (Hsp40) homolog, subfamily B, member 12	DJ10	
DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14	UNQ9427/PRO34683, EGNR9427, PRO34683	
DNAJB3	DnaJ (Hsp40) homolog, subfamily B, member 3	DnaJ (Hsp40) homolog, subfamily B, member 3	
DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5	RP11-392A14.5, Hsc40	
DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6	tcag7.555, DJ4, DnaJ, HH1DJ1, HSJ-2, HSJ2, LGMD1D, LGMD1E, MRJ, MSJ-1	
DNAJB7	DnaJ (Hsp40) homolog, subfamily B, member 7	DJ5, HSC3	
DNAJC10	DnaJ (Hsp40) homolog, subfamily C, member 10	UNQ495/PRO1012, ERdj5, JPDI, MTHr, PDIA19	
DNAJC13	DnaJ (Hsp40) homolog, subfamily C, member 13	RME8	
DNAJC15	DnaJ (Hsp40) homolog, subfamily C, member 15	GIG22, DNAJD1, HSD18, MCJ	
DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16	RP4-680D5.1	
DNAJC18	DnaJ (Hsp40) homolog, subfamily C, member 18		
DNAJC2	DnaJ (Hsp40) homolog, subfamily C, member 2	MPHOSPH11, MPP11, ZRF1, ZUO1	
DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21	DNAJA5, GS3, JJJ1	
DNAJC24	DnaJ (Hsp40) homolog, subfamily C, member 24	AC108456.1, DPH4, JJJ3, ZCSL3	
DNAJC25	DnaJ (Hsp40) homolog, subfamily C, member 25	bA16L21.2.1	
DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27	RBJ, RabJS	
DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3	ERdj6, HP58, P58, P58IPK, PRKRI	
DNAJC30	DnaJ (Hsp40) homolog, subfamily C, member 30	WBSCR18	
DNAJC5	DnaJ (Hsp40) homolog, subfamily C, member 5	CLN4, CLN4B, CSPA, NCL, DNAJC5	
DNAJC5B	DnaJ (Hsp40) homolog, subfamily C, member 5 beta	CSP-beta	

DNAJC5G	DnaJ (Hsp40) homolog, subfamily C, member 5 gamma	CSP-gamma	
DNAJC6	DnaJ (Hsp40) homolog, subfamily C, member 6	DJC6, PARK19	
DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7	DJ11, DJC7, TPR2, TTC2	
DNAL1	Dynein, axonemal, light chain 1	C14orf168, CILD16	
DNASE1	Deoxyribonuclease I	DNL1, DRNI	
DNER	Delta/notch-like EGF repeat containing	UNQ262/PRO299, UNQ26, bet	
DNHD1	Dynein heavy chain domain 1	UNQ5781/PRO12970, C11orf47, CCDC35, DHCDIL, DNHD1	
DNM1	Dynamin 1	DNM	
DNM2	Dynamin 2	CMT2M, CMTDI1, CMTDIB, DI-CMTB, DYN2, DYNII, LCCS5	√
DNM3	Dynamin 3	RP1-106H8.3, Dyna III	
DNMT3B	DNA (cytosine-5-)-methyltransferase 3 beta	RP5-1085F17.2, ICF, ICF1, M.HsaIIIB	
DOC2A	Double C2-like domains, alpha	Doc2	
DOCK10	Dedicator of cytokinesis 10	DRIP2, Nbla10300, ZIZ3	
DOCK2	Dedicator of cytokinesis2		
DOCK4	Dedicator of cytokinesis4	WUGSC:H_GS034D21.1	
DOCK5	Dedicator of cytokinesis5		
DOCK7	Dedicator of cytokinesis7	RP4-740B20.2, EIEE23, ZIR2	
DOCK8	Dedicator of cytokinesis8	RP11-165F24.7, HEL-205, MRD2, ZIR8	
DOCK9	Dedicator of cytokinesis9	RP11-155N3.2, ZIZ1, ZIZIMIN1	
DOPEY1	Dopey family member 1	RP1-202D23.2, KIAA1117, dJ202D23.2	
DOPEY2	Dopey family member 2	21orf5, C21orf5	
DOT1L	DOT1-like histone H3K79 methyltransferase	DOT1, KMT4	
DPAGT1	Dolichyl-phosphate (UDP-N-acetylglucosamine) N	ALG7, CDG-Ij, CDG1J, CMS1A2, DT15566, DGPT, DPAGT, DPAGT2, G1PT, GPT, UAGT, UGAT	
DPF1	D4, zinc and double PHD fingers family 1	BAF45b, NEUD4, neuro-d4	
DPH3	Diphthamide biosynthesis 3	DELGIP, DELGIP1, DESR1A, KTI11, ZCSL2, DPH3	
DPP10	Dipeptidyl-peptidase 10 (non-functional)	DPL2, DPPY, DPRP-3, DPRP3	
DPP6	Dipeptidyl-peptidase 6	DPPX, VF2	
DPPA2	Developmental pluripotency associated 2	CT100, ECAT15-2, PESCRG1	
DPPA3	Developmental pluripotency associated 3	2410075G02Rik, PCG7, PGC7, Stella	
DPY19L1	Dpy-19-like 1 *(C. elegans)*	hCG_1645499	
DPY19L2	Dpy-19-like 2 *(C. elegans)*	UNQ3127/PRO10284, SPATA34, SPGF9	
DPY19L2P1	DPY19L2 pseudogene 1		
DPY19L2P3	DPY19L2 pseudogene 3		

DPY19L4	Dpy-19-like 4 *(C. elegans)*		
DPY30	Dpy-30 homolog *(C. elegans)*	Cps25, HDPY-30, Saf19	
DPYD	Dihydropyrimidine dehydrogenase	DHP, DHPDHASE, DPD	
DPYSL2	Dihydropyrimidinase-like 2	CRMP-2, CRMP2, DHPRP2, DRP-2, DRP2, N2A3, ULIP-2, ULIP2	
DPYSL5	Dihydropyrimidinase-like 5	CRAM, CRMP-5, CRMP5, Ulip6	
DR1	Down-regulator of transcription 1, TBP-binding (negative cofactor 2)	NC2, NC2-BETA	
DRAM1	DNA-damage regulated autophagy modulator 1	DRAM	
DRD2	Dopamine receptor D2	D2DR, D2R	
DRP2	Dystrophin related protein 2	GHc-521F8.2, DRP-2	
DSC1	Desmocollin 1	CDHF1, DG2/DG3	
DSC2	Desmocollin 2	ARVD11, CDHF2, DG2, DGII/III, DSC3	
DSC3	Desmocollin 3	CDHF3, DSC, DSC1, DSC2, DSC4, HT-CP	
DSCR8	Down syndrome critical region gene 8	C21orf65, CT25.1a, CT25.1b, MMA-1, MMA-1a, MMA-1b, MMA1, MTAG2	
DSE	Dermatan sulfate epimerase	DSEPPI, EDSMC2, SART-2, SART2, DSE	
DSEL	Dermatan sulfate epimerase-like	C18orf4	
DSN1	DSN1, MIS12 kinetochore complex component	KP3-469A15.1, C20orf172, KNL3, MIS13, dJ469A15.2, hKNL-2	
DST	Dystonin	KP3-501I14.2, BP240, BPA, BPAG1, CATX-15, CATX15, DCS1101, DMH, DT, ERSP2, HSAN6	
DSTN	Destrin (actin depolymerizing factor)	ACTDP, ADF, HEL32, bA462D18.2	
DSTYK	Dual serine/threonine and tyrosine protein kinase	HDCMD38P, CAKUT1, DustyPK, RIP5, RIPK5	
DTD1	D-tyrosyl-tRNA deacylase 1	C20orf86, DUE-B, DUEB, HAR32, bA379J3.3, bA555E18.1, pgp-6	
DTNA	Dystrobrevin, alpha	D18S892E, DRP3, DTN, DTN-A, LVNC1	
DTNB	Dystrobrevin, beta		
DTWD1	DTW domain containing 1	MDS009	
DTX4	Deltex 4, E3 ubiquitin ligase	RNF155	
DUOX2	Dual oxidase 2	LNOX2, NOXEF2, P138-TOX, TDH6, THOX2	
DUSP10	Dual specificity phosphatase 10	MKP-5, MKP5	
DUSP11	Dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	PIR1	
DUSP13	Dual specificity phosphatase 13	RP11-467I5.6, BEDPA, DUSP13B, MDSP, SKRP4, TMDP, DUSP13	
DUSP19	Dual specificity phosphatase 19	DUSP17, LMWDSP3, SKRP1, TS-DSP1	
DUSP22	Dual specificity phosphatase 22	RP11-328C17.1, JKAP, JSP-1, JSP1, LMW-DSP2, LMWDSP2, MKP-x, MKPX, VHX	
DUSP26	Dual specificity phosphatase 26	DUSP24, LDP-4, MKP8, NATA1, SKRP3	
DUSP28	Dual specificity phosphatase 28	DUSP26, VHP	
DUSP3	Dual specificity phosphatase 3	VHR	

DUSP5	Dual specificity phosphatase 5	DUSP, HVH3	
DUSP5P	Dual specificity phosphatase 5 pseudogene 1	RP4-621O15.1, DUSP5P	
DUSP6	Dual specificity phosphatase 6	HH19, MKP3, PYST1	
DUSP7	Dual specificity phosphatase 7	MKPX, PYST2	
DUT	Deoxyuridine triphosphatase	dUTPase	
DVL2	Dishevelled segment polarity protein 2		
DYM	Dymeclin	DMC, SMC	
DYNC1I1	Dynein, cytoplasmic 1, intermediate chain 1	DNCI1, DNCIC1	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2	DNCLI2, LIC2	
DYNC2H1	Dynein, cytoplasmic 2, heavy chain 1	ATD3, DHC1b, DHC2, DNCH2, DYH1B, SKP32B, SRTD3, hdhc11	
DYNC2LI1	Dynein, cytoplasmic 2, light intermediate chain 1	CGI-60, D2LIC, LIC3	
DYNLRB1	Dynein, light chain, roadblock-type 1	HSPC162, BITH, BLP, DNCL2A, DNLC2A, ROBLD1	
DYRK2	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2		
DYRK3	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	RP11-343H5.2, DYRK5, RED, REDK, hYAK3-2	
DYSF	Dysferlin	FER1L1, LGMD2B, MMD1	
DZIP1L	DAZ interacting zinc finger protein 1-like	DZIP2	
DZIP3	DAZ interacting zinc finger protein 3	PPP1R66, UURF2, hRUL138	
E2F1	E2F transcription factor 1	E2F-1, RBAP1, RBBP3, RBP3	
E2F2	E2F transcription factor 2	E2F-2	
E2F5	E2F transcription factor 5, p130-binding	E2F-5,	
E2F6	E2F transcription factor 6	E2F-6,	
E2F7	E2F transcription factor 7		
EAF1	ELL associated factor 1		
EAF2	ELL associated factor 2	BM-040, BM040, TRAITS, U19	
EBAG9	Estrogen receptor binding site associated, antigen, 9	EB9, PDAF	
EBF2	Early B cell factor 2	COE2, EBF-2, O/E-3, OE-3	
EBF3	Early B-cell factor 3	RP11-234G16.3, COE3, EBF-3, O/E-2, OE-2	
ECHDC2	Enoyl CoA hydratase domain containing 2		
ECM1	Extracellular matrix protein 1	RP11-54A4.6, URBWD	
ECT2	Epithelial cell transforming 2	ARHGEF31	
ECT2L	Epithelial cell transforming 2 like	RP3-509H19.3, ARHGEF32, C6orf91, FBXO49, LFDH, dJ509I19.2, dJ509I19.3, dJ509I19.5	√
EDA	Ectodysplasin A	RP11-351K23.1, EC1D1, EDI, ED1-A1, ED1-A2-A1, EDA-A3, EDA1, EDA3, HED, HED1, ODT1	
EDA2R	Ectodysplasin A2 receptor	UNQ2448/PRO5727/PRO34080, EDA-A2R, EDAA2R, TNFRSF27, XEDAR	

EDAR	Ectodysplasin A receptor	DL, ECTD10A, ECTD10B, EDTR, ED3, ED5, EDA-A1R, EDA1R, EDA2, HRM1	
EDARADD	EDAR-associated death domain	RP4-670F13.1, ECTD11A, ECTD11B, ED3, EDA3	
EDEM1	ER degradation enhancer, mannosidase alpha-like 1	EDEM	
EDEM2	ER degradation enhancer, mannosidase alpha-like 2	UNQ573/PRO1135, C20orf31, C20orf49, bA4204.1	
EDEM3	ER degradation enhancer, mannosidase alpha-like 3	C1orf22	
EDN3	Endothelin 3	RP4-614C15.1, ET-3, ET3, HSCR4, PPET3, WS4B	
EDNRA	Endothelin receptor type A	ET-A, ETA, ETA-R, ETAR, ETRA, hET-AR	
EDNRB	Endothelin receptor type B	RP11-318G21.1, ABCD3, ET-B, ET-BR, ETB, ETBR, ETBR, HSCR, HSCR2, WS4A	
EEA1	Early endosome antigen 1	MST105, MSTP105, ZFYVE2	
EED	Embryonic ectoderm development	HEED, WAIT1	
EEF1A1	Eukaryotic translation elongation factor 1 alpha 1	RP11-505P4.2, CCS-5, CCS5, EEF1A1, EF-1, EF1A, EF-Tu, EF1A, GRAF-1EF, UNQ6202, LENG7, PTI1	
EEF1A1P9	Eukaryotic translation elongation factor 1 alpha 1 pseudogene 9	EEF1AL7	
EEF1DP3	Eukaryotic translation elongation factor 1 delta pseudogene 3		
EEF1E1	Eukaryotic translation elongation factor 1 epsilon 1	RP3-511E16.1, AIMP3, P18	
EEF2K	Eukaryotic elongation factor-2 kinase	HSU93850, eEF-2K	
EEPD1	Endonuclease/exonuclease/phosphatase family domain containing 1	HSPC107	
EFCAB2	EF-hand calcium binding domain 2	CFAP200, DRC8	
EFCAB4B			
EFCAB5	EF-hand calcium binding domain 5		
EFHA2			
EFHC1	EF-hand domain (C-terminal) containing 1	EJM1, dJ304B14.2	
EFHC2	EF-hand domain (C-terminal) containing 2	RP11-334D18.1, MRX74, dJ1158H2.1	
EFNA5	Ephrin-A5	AF1, EFL5, EPLG7, GLC1M, LERK7, RAGS	
EFR3B	EFR3 homolog B *(S. cerevisiae)*	RP11-509E16.1, KIAA0953	
EFS	Embryonal Fyn-associated substrate	CAS3, CASS31, EFS2, HEFS, SIN, EFS	
EFTUD2	Elongation factor Tu GTP binding domain containing 2	MFDGA, MFDM, SNRNP116, Snrp116, Snu114, U5-116KD	
EGF	Epidermal growth factor	HOMG4, URG	
EGFLAM	EGF-like, fibronectin type III and laminin G domains	AGRINL, AGRNL, PIKA	
EGFR	Epidermal growth factor receptor	ERBB, ERBB1, HER1, PIG61, mENA	√
EGLN1	Egl-9 family hypoxia-inducible factor 1	PNAS-118, C10rf12, ECYT3, HIF-PH2, HIFPH2, HPH-2, HPH2, PHD2, SM20, ZMYND6	
EGLN2	Egl-9 family hypoxia-inducible factor 2	EIT6, HIF-PH1, HIFPH1, HPH-1, HPH-3, PHD1	
EGR1	Early growth response 1	AT225, G0S30, KROX-24, NGFI-A, TIS8, ZIF-268, ZNF225	
EGR2	Early growth response 2	AT591, CMT1D, CMT4E, KROX20	

EGR3	Early growth response 3	EGR-3, PILOT	
EHBP1	EH domain binding protein 1	HPC12, NACSIN	
EHD1	EH-domain containing 1	CDABP0131, H-PAST, HPAST1, PAST, PAST1	
EHF	Ets homologous factor	ESE3, ESE3B, ESEJ	
EHHADH	Enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	ECHD, FRTS3, L-PBE, LBFP, LBP, PBFE	
EI24	Etoposide induced 2.4	EPG4, PIG8, TP53I8	
EID1	EP300 interacting inhibitor of differentiation 1	PNAS-22, C15orf5, CRI1, EID-1, IRO45020, PTD014, RRP21	
EIF1	Eukaryotic translation initiation factor 1	A121, EIF-1A, ISO1, SUI1, EIF1	
EIF1AX	Eukaryotic translation initiation factor 1A, X-linked	RP11-395H10.1, EIF1A, EIF1AP1, EIF4C, eIF-1A, eIF-4C	
EIF1AY	Eukaryotic translation initiation factor 1A, Y-linked	eIF-4C	
EIF2A	Eukaryotic translation initiation factor 2A, 65 kDa	CDA02, EIF-2A, MST089, MSTP004, MSTP089	
EIF2AK1	Eukaryotic translation initiation factor 2-alpha kinase 1	PRO1362, HCR, HRI	
EIF2AK4	Eukaryotic translation initiation factor 2 alpha kinase 4	GCN2, PVOD2	
EIF2B2	Eukaryotic translation initiation factor 2B, subunit 2 beta, 39 kDa	EIF-2Bbeta, EIF2B	
EIF2B5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82 kDa	CACH, CLE, EIF-2B, EIF2Bepsilon, LVWM	
EIF2C1			
EIF2C4			
EIF2S3	Eukaryotic translation initiation factor 2, subunit 3 gamma, 52 kDa	EIF2, EIF2G, EIF2gamma, eIF-2gA	
EIF3B	Eukaryotic translation initiation factor 3, subunit B	EIF3-ETA, EIF3-P110, EIF3-P116, EIF3S9, PRT1	
EIF3D	Eukaryotic translation initiation factor 3, subunit D	RP5-1119A7.12-003, EIF3S7, eIF3-p66, eIF3-zeta	
EIF4A2	Eukaryotic translation initiation factor 4A2	BM-010, DDX2B, EIF4A, EIF4F, eIF-4A-II, eIF4A-II	√
EIF4E2	Eukaryotic translation initiation factor 4E family member 2	4E-LP, 4EHP, EIF4EL3, IF4e	
EIF4E3	Eukaryotic translation initiation factor 4E family member 3	eIF-4E3, eIF4E-3	
EIF4EBP2	Eukaryotic translation initiation factor 4E binding protein 2	4EBP2, PHASII	
EIF4H	Eukaryotic translation initiation factor 4H	WBSCR1, WSCR1, eIF-4H	
EIF5	Eukaryotic translation initiation factor 5	EIF-5, EIF-5A	
EIF5A2	Eukaryotic translation initiation factor 5A2	EIF-5A2, eIF5AII	
EIF5AL1	Eukaryotic translation initiation factor 5A-like 1	RP11-342M3.3, EIF5AP1, bA342M3.3	
ELAC1	ElaC ribonuclease Z 1	D29	
ELAVL1	ELAV like RNA binding protein 1	ELAV1, HUR, Hua, MelG	
ELAVL2	ELAV like neuron-specific RNA binding protein 2	RP11-315I14.4, HEL-N1, HELN1, HUB	
ELAVL3	ELAV like neuron-specific RNA binding protein 3	HUC, HUCL, PLE21	
ELAVL4	ELAV like neuron-specific RNA binding protein 4	HUD, PNEM	

ELF2	E74-like factor 2 (ets domain transcription factor)	EU32, NERF, NERF-1A, NERF-1B, NERF-1a,b, NERF-2	
ELF5	E74-like factor 5 (ets domain transcription factor)	ESE2	
ELK1	ELK1, member of ETS oncogene family		
ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)	ERP, NET, SAP2	
ELL2	Elongation factor, RNA polymerase II, 2		
ELMOD3	ELMO/CED-12 domain containing 3	PP4068, DFNB88, LST3, RBED1, RBM29	
ELN	Elastin	SVAS, WBS, WS	√
ELOVL2	ELOVL fatty acid elongase 2	SSC2	
ELOVL5	ELOVL fatty acid elongase 5	RP3-483K16.1, HELO1, SCA38, dJ483K16.1	
ELOVL6	ELOVL fatty acid elongase 6	Lce2, rELO2	
ELP2P			
ELTD1	EGF, latrophilin and seven transmembrane domain containing 1	hCG_14667, ETL, KPG_003	
EMB	Embigin	GP70	
EMG1	EMG1 N1-specific pseudouridine methyltransferase	C2F, Grcc2f, NEP1	
EML1	Echinoderm microtubule associated protein like 1	ELP79, EMAP, EMAPL, HuEMAP	
EML4	Echinoderm microtubule associated protein like 4	C2orf2, ELP120, EMAP-4, EMAPL4, ROPP120	√
EML6	Echinoderm microtubule associated protein like 6		
EMP2	Epithelial membrane protein 2	NPHS10, XMP	
EMR1	Egf-like module containing, mucin-like, hormone receptor-like 1	TM7LN3	
EMR2	Egf-like module containing, mucin-like, hormone receptor-like 2	CD312	
EMX2	Empty spiracles homeobox 2		
EN1	Engrailed homeobox 1		
EN2	Engrailed homeobox 2	tcag7.568	
ENAH	Enabled homolog (Drosophila)	RP11-496N12.7, ENA, MENA, NDPP1	
ENDOD1	Endonuclease domain containing 1		
ENOX2	Ecto-NOX disulfide-thiol exchanger 2	RP5-875H3.1, APK1, COVA1, tNOX	
ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase 1	ARHR2, COLED, M6S1, NPP1, NPP3, PC-1, PCA1, PDNP1	
ENPP5	Ectonucleotide pyrophosphatase/phosphodiesterase 5	UNQ550/PRO1107, NPP-5	
ENPP6	Ectonucleotide pyrophosphatase/phosphodiesterase 6	UNQ1889/PRO4334, NPP6	
ENSA	Endosulfine alpha	RP11-54A4.10-004, ARPP-19e	
ENTPD1	Ectonucleoside triphosphate diphosphohydrolase 1	ATPDase, CD39, NTPDase-1, SPG64	
ENTPD4	Ectonucleoside triphosphate diphosphohydrolase 4	LALP70, LAP70, LYSAL1, NTPDase-4, UDPase	
ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6	RP4-758P13.5, CD39L2, IL-6SAG, IL6ST2, NTPDase-6, dJ728P15.2	

ENTPD7	Ectonucleoside triphosphate diphosphohydrolase 7	RP11-483F11.1, LALP1	
ENY2	Enhancer of yellow 2 homolog (Drosophila)	DC6, e(y)2	
EP400	E1A binding protein p400	CAGH32, P400, TNRC12	
EPB41	Erythrocyte membrane protein band 4.1	RP11-242O24.1, 4.1R, EL1, HE	
EPB41L3	Erythrocyte membrane protein band 4.1-like 3	4.1B, DAL-1, DAL1	
EPB41L4A	Erythrocyte membrane protein band 4.1 like 4A	EPB41L4, NBL4	
EPB41L4B	Erythrocyte membrane protein band 4.1 like 4B	CG1, EHM2	
EPB41L5	Erythrocyte membrane protein band 4.1 like 5	BE37, YMO1	
EPB49			
EPC2	Enhancer of polycomb homolog 2 (Drosophila)	EPC-LIKE	
EPDR1	Ependymin related 1	EPDR, MERP-1, MERP1, UCC1	
EPGN	Epithelial mitogen	UNQ3072, ALGV3072, EPG, PRO9904	
EPHA2	EPH receptor A2	ARCC2, CTPA, CTPP1, CTRCT6, ECK	
EPHA3	EPH receptor A3	EK4, ETK, ETK1, HEK, HEK4, TYRO4	
EPHA4	EPH receptor A4	HEK8, SEK, TYRO1	
EPHA5	EPH receptor A5	CEK7, EHK-1, EHK1, EK7, HEK7, TYRO4	
EPHA7	EPH receptor A7	EHK-3, EHK3, EK11, HEK11	
EPHB1	EPH receptor B1	ELK, EPHT2, Hek6, NET	
EPHB2	EPH receptor B2	CAPB, DRT, EK5, EPHT3, ERK, Hek5, PCBC, Tyro5	
EPM2A	Epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	RP1-28C20.2, EPM2, MELF	
EPM2AIP1	EPM2A (laforin) interacting protein 1	My007	
EPN2	Epsin 2	EHB21	
EPS15	Epidermal growth factor receptor pathway substrate 15	AF-1P, AF1P, MLLT5	√
EPS15L1	Epidermal growth factor receptor pathway substrate 15-like 1	EPS15R	
EPS8	Epidermal growth factor receptor pathway substrate 8	DFNB102	
EPT1	Ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)	SELI, SEPI	
ERAP1	Endoplasmic reticulum aminopeptidase 1	UNQ364/PRO1134, A-LAP, ALAP, APP1L3, ARTS-1, ARTS1, ERAAP, ERAAP1, PILS-AP, PILSAP	
ERAP2	Endoplasmic reticulum aminopeptidase 2	L-RAP, LRAP	
ERAS	ES cell expressed Ras	HRAS2, HRASP	
ERBB4	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4	ALS19, HER4, p180erbB4	
ERC1	ELKS/RAB6-interacting/CAST family member 1	Cast2, ELKS, ERC-1, RAB6IP2	
ERC2	ELKS/RAB6-interacting/CAST family member 2	CAST, CAST1, ELKSL, SPBC110, Spc110	
ERCC6	Excision repair cross-complementation group 6	ARMD5, CKN2, COFS, COFS1, CSB, RAD26, UVSS1	

ERCC6L	Excision repair cross-complementation group 6-like	PICH, RAD26L	
EREG	Epiregulin	ER	
ERF	Ets2 repressor factor	CRS4, PE-2, PE2	
ERG	v-ets avian erythroblastosis virus E26 oncogene homolog	erg-3, p55	√
ERGIC1	Endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1	HT034, ERGIC-32, ERGIC32, NET24	
ERI1	Exoribonuclease 1	3'HEXO, HEXO, THEX1	
ERICH1	Glutamate-rich 1	HSPC319	
ERLIN1	ER lipid raft associated 1	RP11-316M21.1, C10orf69, Erlin-1, KE04, KEO4, SPFH1, SPG62	
ERLIN2	ER lipid raft associated 2	UNQ2441, C8orf2, Erlin-2, NET32, SPFH2, SPG18	
ERMAP	Erythroblast membrane-associated protein (Scianna blood group)	BTN5, PRO2801, RD, SC	
ERMN	Ermin, ERM-like protein	JN, KIAA1189, ermin	
ERO1L	ERO1-like *(S. cerevisiae)*	UNQ434/PRO865, ERO1-alpha, ERO1AA, ERO1L	
ERO1LB	ERO1-like beta *(S. cerevisiae)*	RP5-985L19.2	
ERP44	Endoplasmic reticulum protein 44	UNQ532/PRO1075, PDIA10, TXNDC4	
ERVFRDE1	Endogenous retrovirus group FRD, member 1	UNQ6191/PRO20218, ERVFRDE1, GLLL6191, HERV-FRD, HERV-W/FRD, UNQ6191, envFRD	
ESCO2	Establishment of sister chromatid cohesion N-acetyltransferase 2	2410004I17Rik, EFO2, RBS	
ESD	Esterase D	RP11-147L20.1, FGH	
ESM1	Endothelial cell-specific molecule 1	endocan	
ESPNL	Espin-like	UNQ3125	
ESR1	Estrogen receptor 1	RP1-130E4.1, ER, ESR, ESRA, ESTRR, Era, NR3A1	
ESR2	Estrogen receptor 2 (ER beta)	ER-BETA, ESR-BETA, ESRB, ESTRB, Erb, NR3A2	
ESRP1	Epithelial splicing regulatory protein 1	RBM35A, RMB35A	
ESRP2	Epithelial splicing regulatory protein 2	PP7059, RBM35B	
ESRRG	Estrogen-related receptor gamma	ERR3, ERRgamma, NR3B3	
ESYT3	Extended synaptotagmin-like protein 3	CHR3SYT, E-Syt3, FAM62C	
ETF1	Eukaryotic translation termination factor 1	D5S1995, ERF, ERF1, RF1, SUP45L1, TB3-1	
ETFDH	Electron-transferring-flavoprotein dehydrogenase	ETFQO, MADD	
ETNK1	Ethanolamine kinase 1	EKI, EKI 1, EKI1, Nbla10396	
ETS1	v-ets avian erythroblastosis virus E26 oncogene homolog 1	ETS-1, EWSR2, p54	
ETV1	Ets variant 1	ER81	√
ETV3L	Ets variant 3-like		
ETV6	Ets variant 6	TEL, TEL/ABL	√
EVC	Ellis van Creveld syndrome	DWF-11, EVCL, EVC	

EVI2A	Ecotropic viral integration site 2A	EVDA, EVI-2A, EVI2	
EVI5	Ecotropic viral integration site 5	NB4S	
EVL	Enah/Vasp-like	RNB6	
EXD1	Exonuclease 3'-5' domain containing 1	EXDL1	
EXO1	Exonuclease 1	RP11-553N16.2, HEX1, hExoI	
EXOC2	Exocyst complex component 2	RP11-164H16.2, SEC5, SEC5L1, Sec5p	
EXOC4	Exocyst complex component 4	tcag7.1185, SEC8, SEC8L1, Sec8p	
EXOC5	Exocyst complex component 5	HSEC10, PRO1912, SEC10, SEC10L1, SEC10P	
EXOC6	Exocyst complex component 6	RP11-346J12.4A, SEC15, SEC15L, SEC15L1, SEC15L3, Sec15p, EXOC6	
EXOC8	Exocyst complex component 8	EXO84, Exo84p, SEC84	
EXOSC10	Exosome component 10	PM-Scl, PM/Scl-100, PM3CL, PM3CL2, RRP6, Rrp6p, p2, p3, p4	
EXOSC2	Exosome component 2	RP11-57C19.4, RRP4, Rrp4p, hRrp4p, p7	
EXOSC3	Exosome component 3	CGI-102, PCH1B, RRP40, Rrp40p, bA539I0.7, hRrp-40, p10	
EXOSC6	Exosome component 6	EAP4, MTR3, Mtr3p, hMtr3p, p11	
EXPH5	Exophilin 5	SLAC2-B, SLAC2B	
EXT2	Exostosin glycosyltransferase 2	SOTV	√
EXTL2	Exostosin-like glycosyltransferase 2	EXTR2	
EXTL3	Exostosin-like glycosyltransferase 3	BOTV, EXTL1L, EXTR1, REGR, RPR	
EYA1	EYA transcriptional coactivator and phosphatase 1	BOP, BOR, BOS1, OFC1	
EYA4	EYA transcriptional coactivator and phosphatase 4	RP11-704J17.4, CMD1J, DFNA10	
EYS	Eyes shut homolog (Drosophila)	RP1-22H17.2, C6orf178, C6orf179, C6orf180, EGFL10, EGFL11, LNX1, LNX2, SPAM, hA166P24.2, hA207F22.2	
EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit	ENX-1, LNX1, LZH1b, KMT6, KMT6A, WVF3, WVF32, EZH2	√
F11	Coagulation factor XI	FXI	
F11R	F11 receptor	RP11-344M22.2, CD321, JAM, JAM1, JAMA, JCAM, KAT, PAM-1	
F13A1	Coagulation factor XIII, A1 polypeptide	RP11-232H4.1, F13A	
F13B	Coagulation factor XIII, B polypeptide	FXIIIB	
F2R	Coagulation factor II (thrombin) receptor	CF2R, HTR, PAR-1, PAR1, TR	
F2RL3	Coagulation factor II (thrombin) receptor-like 3	PAR4	
F5	Coagulation factor V (proaccelerin, labile factor)	FVL, PCCF, RPRGL1, THPH2	
FABP2	Fatty acid binding protein 2, intestinal	FABPI, I-FABP	
FABP7	Fatty acid binding protein 7, brain	RP11-548E19.1, B-FABP, BLBP, FABPB, MRG	
FADS1	Fatty acid desaturase 1	D5D, FADS6, FADSD5, LLCDL1, TU12	
FADS2	Fatty acid desaturase 2	D6D, DES6, FADSD6, LLCDL2, SLL0262, TU13	

FAIM	Fas apoptotic inhibitory molecule	FAIM1	
FAIM2	Fas apoptotic inhibitory molecule 2	LFG, LFG2, NGP35, NMP35, TMBIM2	
FAIM3	Fas apoptotic inhibitory molecule 3	FCMR, TOSO	
FAM100A			
FAM100B			
FAM101B	Family with sequence similarity 101, member B	CFM1	
FAM102A	Family with sequence similarity 102, member A	RP11-203J24.7, C9orf132, EEIG1, SYM-3A, bA203J24.7	
FAM102B	Family with sequence similarity 102, member B	RP11-256E16.1, SYM-3B	
FAM104A	Family with sequence similarity 104, member A		
FAM104B	Family with sequence similarity 104, member B	RP11-266I3.4, CXorf44	
FAM105A	Family with sequence similarity 105, member A	NET20	
FAM105B			
FAM107A	Family with sequence similarity 107, member A	DRR1, TU3A	
FAM107B	Family with sequence similarity 107, member B	RP11-153L18.1, C10orf45	
FAM108B1			
FAM108C1			
FAM109B	Family with sequence similarity 109, member B	CTA-250D10.2, IPIP27B, Ses2	
FAM110B	Family with sequence similarity 110, member B	C8orf72	
FAM114A2	Family with sequence similarity 114, member A2	133K02, C5orf3	
FAM115C	Family with sequence similarity 115, member C	FAM139A	
FAM116A			
FAM117A	Family with sequence similarity 117, member A		
FAM117B	Family with sequence similarity 117, member B	ALS2CR13	
FAM118A	Family with sequence similarity 118, member A	CTA-268H5.11-003, C22orf8	
FAM118B	Family with sequence similarity 118, member B		
FAM119A			
FAM119B			
FAM120A	Family with sequence similarity 120A	C9orf10, DNAPTP1, DNAPTP5, OSSA	
FAM120AOS	Family with sequence similarity 120A opposite strand	RP11-165J3.1, C9orf10OS	
FAM120B	Family with sequence similarity 120B	CCPG, KIAA1838, PGCC1, dJ894D12.1	
FAM120C	Family with sequence similarity 120C	RP11-161N3.2, CXorf17, ORF34	
FAM122A	Family with sequence similarity 122A	C9orf42	
FAM122B	Family with sequence similarity 122B	RP11-308B5.5, SPACIA2	

FAM123B			
FAM124B	Family with sequence similarity 124B		
FAM125B			
FAM126B	Family with sequence similarity 126, member B	HYCC2	
FAM129C	Family with sequence similarity 129, member C	BCNP1	
FAM131B	Family with sequence similarity 131, member B		
FAM133A	Family with sequence similarity 133, member A	RP1-32F7.2, CT115	
FAM133B	Family with sequence similarity 133, member B	RP1-32F7.2, CT115	
FAM134C	Family with sequence similarity 134, member C		
FAM135A	Family with sequence similarity 135, member A	RP1-198I9.1, KIAA1411	
FAM135B	Family with sequence similarity 135, member B	RP1-198I9.1, KIAA1411	
FAM13A	Family with sequence similarity 13, member A	ARHGAP481, FAM13A	
FAM13AOS			
FAM13B	Family with sequence similarity 13, member B	ARHGAP49, C5orf51, KH	
FAM149A	Family with sequence similarity 149, member A	AW213256, mKIAA4166	
FAM150A	Family with sequence similarity 150, member A	EG620393	
FAM153B	Family with sequence similarity 153, member B		
FAM153C	Family with sequence similarity 153, member C	NY-REN-7-like	
FAM155B	Family with sequence similarity 155, member B	CXorf63, TED, TMEM28, bB57D9.1	
FAM156A	Family with sequence similarity 156, member A	RP1-248F5.1, PRO0659, TMEM29	
FAM156B	Family with sequence similarity 156, member B	PP12994, TMEM29B	
FAM159A	Family with sequence similarity 159, member A	UNQ2783/PRO7171, PRO7171, WWLS2783	
FAM160A1	Family with sequence similarity 160, member A1		
FAM160A2	Family with sequence similarity 160, member A2	C11orf56	
FAM163A	Family with sequence similarity 163, member A	RP11-12M5.2, C1orf76, NDSP	
FAM164A	Family with sequence similarity 164, member A	C8orf70, ZC2HC1A	
FAM167A	Family with sequence similarity 167, member A	C8orf13, D8S265	
FAM168A	Family with sequence similarity 168, member A	KIAA0280, TCRP1	
FAM168B	Family with sequence similarity 168, member B	MANI	
FAM169A	Family with sequence similarity 169, member A	SLAP75	
FAM169B	Family with sequence similarity 169, member B		
FAM171A1	Family with sequence similarity 171, member A1	RP11-455B2.10-002, C10orf38	
FAM172A	Family with sequence similarity 172, member A	C5orf21	

FAM174A	Family with sequence similarity 174, member A	UNQ1912/PRO4371, TMEM157, UNQ1912	
FAM175B	Family with sequence similarity 175, member B	ABRO1, KIAA0157	
FAM177A1	Family with sequence similarity 177, member A1	C14orf24	
FAM178A	Family with sequence similarity 178, member A	C10orf6	
FAM179B	Family with sequence similarity 179, member B	KIAA0423	
FAM182A	Family with sequence similarity 182, member A	RP13-329D4.5, C20orf91, bB329D4.1	
FAM185A	Family with sequence similarity 185, member A		
FAM189A1	Family with sequence similarity 189, member A1	TMEM228	
FAM189B	Family with sequence similarity 189, member B	C1orf2, COTE1	
FAM18A	Family with sequence similarity 18, member A	YDR084C	
FAM18B2	Family with sequence similarity 18, member B2		
FAM190A	Family with sequence similarity 190, member A		
FAM190B	Family with sequence similarity 190, member B	BOS_24114	
FAM192A	Family with sequence similarity 192, member A	CDA10, C16orf94, CDA018, NIP30	
FAM193A	Family with sequence similarity 193, member A	RES4-22, C4orf8	
FAM195A	Family with sequence similarity 195, member A	C16orf14, c349E10.1	
FAM198A	Family with sequence similarity 198, member A	C3orf41	
FAM198B	Family with sequence similarity 198, member B	AD021, AD036, C4orf18	
FAM19A2	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A2	TAFA-2, TAFA2	
FAM19A3	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A3	RP11-426L16.6, TAFA-3, TAFA3	
FAM20B	Family with sequence similarity 20, member B	RP11-177A2.1, gxk1	
FAM22D	Family with sequence similarity 22, member D		
FAM22G			
FAM23A	Family with sequence similarity 23, member A	bA16O1.2	
FAM23B	Family with sequence similarity 23, member B	bA162I21.2	
FAM24A	Family with sequence similarity 24, member A		
FAM26D	Family with sequence similarity 26, member D	RP3-493F7.4, C6orf78	
FAM26E	Family with sequence similarity 26, member E	RP3-493F7.3, C6orf188, dJ493F7.3	
FAM27L	Family with sequence similarity 27-like		
FAM35B			
FAM35B2	Family with sequence similarity 35, member A pseudogene		
FAM38B	Family with sequence similarity 38, member B		
FAM3B	Family with sequence similarity 3, member B	PRED44, 2-21, C21orf11, C21orf76, ORF9, PANDER	

FAM3C	Family with sequence similarity 3, member C	GS3786, ILEI	
FAM3D	Family with sequence similarity 3, member D	UNQ567/PRO1130, EF7, OIT1	
FAM40B	Family with sequence similarity 40, member B	STRIP2	
FAM41AY2	Family with sequence similarity 41, member A, Y-linked 2		
FAM43A	Family with sequence similarity 43, member A	PP7298	
FAM45A	Family with sequence similarity 45, member A		
FAM46A	Family with sequence similarity 46, member A	RP1-300G12.3, C6orf37, XTP11	
FAM46B	Family with sequence similarity 46, member B	RP11-344H11.8	
FAM46C	Family with sequence similarity 46, member C		√
FAM46D	Family with sequence similarity 46, member D	CT1.26, CT112	
FAM47B	Family with sequence similarity 47, member B	RP13-520K9.1	
FAM47C	Family with sequence similarity 47, member C	RP11-31H15.5	
FAM47E	Family with sequence similarity 47, member E	hCG_23000	
FAM48A	Family with sequence similarity 48, member A	BOS_12357	
FAM53B	Family with sequence similarity 53, member B	RP11-12J10.2, KIAA0140, bA12J10.2	
FAM54B	Family with sequence similarity 54, member B		
FAM55C	Family with sequence similarity 55, member C	EGK_11249	
FAM57B	Family with sequence similarity 57, member B	FP1188	
FAM58A	Family with sequence similarity 58, member A	STAR	
FAM59A	Family with sequence similarity 59, member A		
FAM5B	Family with sequence similarity 5, member B	EGK_01993	
FAM5C	Family with sequence similarity 5, member C	BOS_15614	
FAM63A	Family with sequence similarity 63, member A	RP11-316M1.5	
FAM63B	Family with sequence similarity 63, member B		
FAM66C	Family with sequence similarity 66, member C		
FAM66D	Family with sequence similarity 66, member D		
FAM66E	Family with sequence similarity 66, member E		
FAM70A	Family with sequence similarity 70, member A	EGK_20885	
FAM71C	Family with sequence similarity 71, member C		
FAM71D	Family with sequence similarity 71, member D	C14orf54	
FAM71E2	Family with sequence similarity 71, member E2	C19orf16	
FAM71F1	Family with sequence similarity 71, member F1	FAM137A, NYD-SP18	
FAM72D	Family with sequence similarity 72, member D	WI2-929E21.1, GCUD2	

FAM73A	Family with sequence similarity 73, member A		
FAM73B	Family with sequence similarity 73, member B	RP11-167N5.1, C9orf54	
FAM76A	Family with sequence similarity 76, member A	RP3-426I6.1	
FAM76B	Family with sequence similarity 76, member B		
FAM81A	Family with sequence similarity 81, member A		
FAM81B	Family with sequence similarity 81, member B		
FAM82B	Family with sequence similarity 82, member B		
FAM84A	Family with sequence similarity 84, member A	NSE1, PP11517	
FAM85A	Family with sequence similarity 85, member A		
FAM86A	Family with sequence similarity 86, member A	SB153	
FAM86B1	Family with sequence similarity 86, member B1		
FAM86B2	Family with sequence similarity 86, member B2		
FAM86C	Family with sequence similarity 86, member C1	FAM86C	
FAM86D	Family with sequence similarity 86, member D pseudogene		
FAM89A	Family with sequence similarity 89, member A	RP11-423F24.2, C1orf153	
FAM90A1	Family with sequence similarity 90, member A1		
FAM91A1	Family with sequence similarity 91, member A1		
FAM91A2			
FAM95B1	Family with sequence similarity 95, member B1	RP11-146D12.4	
FAM96A	Family with sequence similarity 96, member A		
FAM99A	Family with sequence similarity 99, member A (non-protein coding)		
FAM9C	Family with sequence similarity 9, member C	TEX39C	
FANCA	Fanconi anemia, complementation group A	FA, FA-H, FA1, FAA, FACA, FAH, FANCH	√
FANCD2	Fanconi anemia, complementation group D2	FA-D2, FA4, FACD, FAD, FAD2, FANCD	√
FANCF	Fanconi anemia, complementation group F	FAF	√
FANCG	Fanconi anemia, complementation group G	FAG, XRCC9	√
FANCI	Fanconi anemia, complementation group I	KIAA1794	
FANCM	Fanconi anemia, complementation group M	FAAP250, KIAA1596	
FAR1	Fatty acyl CoA reductase 1	UNQ2423/PRO4981, MLSTD2, SDR10E1	
FAS	Fas cell surface death receptor	RP11-395O19.7, ALPS1A, APO-1, APT1, CD95, FASTM, TNFRSF6, FAS	√
FASLG	Fas ligand (TNF superfamily, member 6)	ALPS1B, APT1LG1, APT1L, CD178, CD95-L, CD95L, FASL, TNFSF6	
FASTKD1	FAST kinase domains 1		
FASTKD2	FAST kinase domains 2	KIAA0971	

FASTKD5	FAST kinase domains 5	dJ1187M17.5	
FAT3	FAT atypical cadherin 3	CDHF15, CDHR10	
FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	FAU1, Fub1, Fubi, MNSFbeta, RPS30, S30, asr1	
FBLIM1	Filamin binding LIM protein 1	RP11-169K16.5, CAL, FBLP-1, FBLP1	
FBLN1	Fibulin 1	CTA-941F9.7, FBLN, FIBL1	
FBLN5	Fibulin 5	UNQ184/PRO210, ADCL2, ARCL1A, ARMD3, DANCE, EVEC, FIBL-5, UP50	
FBN1	Fibrillin 1	ACMICD, ECTOLI, FBN, GPHYSD2, MASS, MFS1, OCTD, SGS, SSKS, WMS, WMS2	
FBN2	Fibrillin 2	CCA, DA9	
FBXL14	F-box and leucine-rich repeat protein 14	Fbl14	
FBXL17	F-box and leucine-rich repeat protein 17	FBXO13, Fbl17, Fbx13	
FBXL20	F-box and leucine-rich repeat protein 20	RP11-690G19.3, Fbl2, Fbl20	
FBXL21	F-box and leucine-rich repeat protein 21	FBL3B, FBXL3B, FBXL3P, Fbl21	
FBXL3	F-box and leucine-rich repeat protein 3	FBL3, FBL3AA, FBXL3	
FBXL5	F-box and leucine-rich repeat protein 5	FBL4, FBL5, FLR1	
FBXO11	F-box protein 11	UG063H01, FBX11, PRMT9, UBR6, VIT1	√
FBXO2	F-box protein 2	FBG1, FBX2, Fbs1, NFB42, OCP1	
FBXO21	F-box protein 21	FBX21	
FBXO22	F-box protein 22	FBX22, FISTC1	
FBXO24	F-box protein 24	FBX24	
FBXO25	F-box protein 25	FBX25	
FBXO28	F-box protein 28	CENP-30, Fbx28	
FBXO3	F-box protein 3	FBA, FBX3	
FBXO30	F-box protein 30	RP11-545I5.4, Fbx30	
FBXO31	F-box protein 31	PP2386, FBX14, FBXO14, Fbx31, pp2386	
FBXO32	F-box protein 32	Fbx32, MAFbx	
FBXO33	F-box protein 33	BMND12, Fbx33, c14_5247	
FBXO34	F-box protein 34	CGI-301, Fbx34	
FBXO36	F-box protein 36	Fbx36	
FBXO39	F-box protein 39	CT144, Fbx39	
FBXO40	F-box protein 40	FBX40	
FBXO41	F-box protein 41	FBX41	
FBXO42	F-box protein 42	Fbx42, JFK	
FBXO43	F-box protein 43	4930533G20Rik, Emi2	

FBXO45	F-box protein 45	Fbx45	
FBXO47	F-box protein 47		
FBXO5	F-box protein 5	RP1-101K10.5, EMI1, FBX5, Fbxo31	
FBXO7	F-box protein 7	[illegible]	
FBXW11	F-box and WD repeat domain containing 11	BTRC2, BTRCP2, FBW1B, FBXW1B, Fbw11, Hos	
FBXW2	F-box and WD repeat domain containing 2	RP11-88M19.2, FBW2, Fwd2, Md6	
FBXW7	F-box and WD repeat domain containing 7, E3 ubiquitin protein ligase	[illegible]	√
FCAMR	Fc receptor, IgA, IgM, high affinity	FKSG87, CD351, FCA/MR	
FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)	RP11-196G18.2, CD64, CD64A, FCRI, IGFR1	
FCGR3A	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	[illegible]	
FCGR3B	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)	[illegible]	
FCGRT	Fc fragment of IgG, receptor, transporter, alpha	FCRN, alpha-chain	
FCRL2	Fc receptor-like 2	[illegible]	
FCRL4	Fc receptor-like 4	CD307d, FCRH4, IGFP2, IRTA1	
FCRL5	Fc receptor-like 5	[illegible]	
FCRLA	Fc receptor-like A	[illegible]	
FDFT1	farnesyl-diphosphate farnesyltransferase 1	DGPT, ERG9, SQS, SS	
FDX1	Ferredoxin 1	ADX, FDX, LOH11CR1D	
FECH	Ferrochelatase	EPP, FCE	
FER	Fer (fps/fes related) tyrosine kinase	[illegible]	
FER1L4	Fer-1-like family member 4, pseudogene (functional)	RP3-477O4.7, C20orf124	
FERMT1	Fermitin family member 1	[illegible]	
FES	FES proto-oncogene, tyrosine kinase	FPS	
FEZ1	Fasciculation and elongation protein zeta 1 (zygin I)		
FGA	Fibrinogen alpha chain	Fib2	
FGD3	FYVE, RhoGEF and PH domain containing 3	RP11-274J16.4, ZFYVE5	
FGD4	FYVE, RhoGEF and PH domain containing 4	CMT4H, FRABP, ZFYVE6	
FGF1	Fibroblast growth factor 1 (acidic)	[illegible]	
FGF12	Fibroblast growth factor 12	FGF12B, FHF1	
FGF2	Fibroblast growth factor 2 (basic)	BFGF, FGF-2, FGFB, HBGF-2	
FGF7	Fibroblast growth factor 7	HBGF-7, KGF	
FGF9	Fibroblast growth factor 9	FGF-9, GAF, HBFG-9, HBGF-	
FGFR1	Fibroblast growth factor receptor 1	[illegible]	√

FGFR1OP	FGFR1 oncogene partner	FOP	√
FGFR1OP2	FGFR1 oncogene partner 2	HSPC123, HSPC123-like, WIT3.0	
FGFR2	Fibroblast growth factor receptor 2	BBD3, BEK, BFR-1, CD332, CEK3, CFD1, ECT1, JWS, K-SAM, KGFR, TK14, TK25	√
FGFR3	Fibroblast growth factor receptor 3	ACH, CD333, CEK2, HSFGFR3EX, JTK4	√
FGL2	Fibrinogen-like 2	T49, pT49	
FHAD1	Forkhead-associated (FHA) phosphopeptide binding domain 1	RP3-467K16.1	
FHDC1	FH2 domain containing 1		
FHL3	Four and a half LIM domains 3	SLIM2	
FHL5	Four and a half LIM domains 5	RP3-393D12.2, ACT, dJ393D12.2	
FHOD3	Formin homology 2 domain containing 3	FHOS2, Formactin2	
FIBCD1	Fibrinogen C domain containing 1	RP11-83J21.2	
FIGN	Fidgetin	RP23-312N5.1, fi, fidget	
FIGNL1	Fidgetin-like 1		
FIGNL2	Fidgetin-like 2		
FIP1L1	Factor interacting with PAPOLA and CPSF1	FIP1, Rhe, hFip1	√
FIZ1	FLT3-interacting zinc finger 1	ZNF798	
FKBP11	FK506 binding protein 11, 19 kDa	UNQ336/PRO535, FKBP19	
FKBP1A	FK506 binding protein 1A, 12 kDa	RP11-314N15.2, FKBP-12, FKBP-1A, FKBP1, FKBP12, PKC12, PKCI2, PPIASE	
FKBP4	FK506 binding protein 4, 59 kDa	FKBP51, FKBP52, FKBP59, HBI	
FKBP5	FK506 binding protein 5	RP5-340B19.6, AIG61, FKBP54, P54, PPIase, Ptg-10, FKBP5	
FKBP6	FK506 binding protein 6, 36 kDa	FKBP36	
FKBP7	FK506 binding protein 7	RP23-468L22.3, 23kDa, FKBP-7, FKBP23	
FKSG83			
FKTN	Fukutin	RP11-235C23.1, CMD1X, FCMD, LGMD2M, MDDGA4	
FLG2	Filaggrin family member 2	RP1-14N1.3, IFPS	
FLI1	Fli-1 proto-oncogene, ETS transcription factor	EWSR2, SIC-1	√
FLII	Flightless I homolog (Drosophila)	FLI, FLIL, Fli1	
FLJ10038	Uncharacterized protein FLJ10038		
FLJ10213			
FLJ10357			
FLJ10489			
FLJ12825	Uncharacterized LOC440101		
FLJ16124	FLJ16124 protein		

FLJ22763	Uncharacterized LOC401081		
FLJ23152			
FLJ26245	Uncharacterized LOC400533		
FLJ26850	FLJ26850 protein		
FLJ30838			
FLJ31104	Uncharacterized LOC441072		
FLJ32063			
FLJ32742	Uncharacterized locus FLJ32742		
FLJ34503	Uncharacterized FLJ34503		
FLJ35220			
FLJ36000	Uncharacterized FLJ36000		
FLJ37798			
FLJ38028			
FLJ39061	Uncharacterized protein FLJ39061		
FLJ39080	Uncharacterized LOC441355		
FLJ39582	Hypothetical protein FLJ39582		
FLJ39653	Hncharacterized protein FLJ39653		
FLJ40194	Hncharacterized FLJ40194		
FLJ40288	Hncharacterized FLJ40288		
FLJ40330			
FLJ40448			
FLJ41278	Uncharacterized LOC400046		
FLJ41309			
FLJ41423	Putative uncharacterized protein FLJ41423		
FLJ41484			
FLJ42200	FLJ42200 protein		
FLJ42280			
FLJ42393	Uncharacterized LOC401105		
FLJ42627	Uncharacterized LOC645644		
FLJ42842			
FLJ42953			
FLJ43315	Asparagine synthetase pseudogene		
FLJ43390			

FLJ43950			
FLJ43963			
FLJ44054			
FLJ44082			
FLJ44313	FLJ44313 protein		
FLJ44790	Uncharacterized FLJ44790		
FLJ44838	Uncharacterized LOC644767		
FLJ44881			
FLJ45244			
FLJ45949			
FLJ77644			
FLJ90757			
FLNC	Filamin C, gamma	ABP-280, ABP280A, ABPA, ABPL, FLN2, MFM5, MPD4	
FLOT2	Flotillin 2	ECS-1, ECS1, ESA, ESA1, M17S1	
FLRT2	Fibronectin leucine rich transmembrane protein 2		
FLT1	Fms-related tyrosine kinase 1	FLT, FLT-1, VEGFR-1, VEGFR1	
FLT3	Fms-related tyrosine kinase 3	RP11-153M24.3, CD135, FLK-2, FLK2, STK1	√
FLT3LG	Fms-related tyrosine kinase 3 ligand	FL, FLT3L	
FLT4	Fms-related tyrosine kinase 4	FLT41, LMPH1A, PCL, VEGFR3	
FMN1	Formin 1	FMN, LD	
FMN2	Formin 2	RP11-90L13.1	
FMNL2	Formin-like 2	FHOD2	
FMNL3	Formin-like 3	FHOD3, WBP-3, WBP3	
FMO2	Flavin containing monooxygenase 2 (non-functional)	FMO1B1	
FMO5	Flavin containing monooxygenase 5	RP11-337C18.2	
FMR1	Fragile X mental retardation 1	FMRP, FRAXA, POF, POF1	
FN3K	Fructosamine 3 kinase		
FN3KRP	Fructosamine 3 kinase related protein	FN3KL	
FNBP1	Formin binding protein 1	FBP17	√
FNBP4	Formin binding protein 4	FBP30	
FNDC3A	Fibronectin type III domain containing 3A	RP11-205I16.3, FNDC3, HUGO, bA205I16.1, bA302I16.5	
FNDC3B	Fibronectin type III domain containing 3B	UNQ2421/PRO4979/PRO34274, FAD104, PRO4979, YVTM2421	
FNDC5	Fibronectin type III domain containing 5	FRCP2, irisin	

FNDC7	Fibronectin type III domain containing 7	RP11-293A10.2	
FNIP1	Folliculin interacting protein 1		
FNIP2	Folliculin interacting protein 2	FNIPL, MAPO1	
FOLH1	Folate hydrolase (prostate-specific membrane antigen) 1	GIG27, FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALAdase, PSM, PSMA, mGCP, GCPII, P3M, P3MA-LIKE, PSMAL	
FOLH1B	Folate hydrolase 1B		
FOS			
FOSB	FBJ murine osteosarcoma viral oncogene homolog B	AP-1, G0S3, GOS3, GOSB	
FOXD3	Forkhead box D3	AIS1, Genesis, HFH2, VAMAS2	
FOXF1	Forkhead box F1	ACDMPV, FKHL5, FREAC1	
FOXG1	Forkhead box G1	BF1, BF2, FHKL3, FKH2, FKHL1, FKHL2, FKHL3, FKHL4A, FOXG1B, FOXG1C, HBF-1, HBF-2, HBF-3	
FOXJ2	Forkhead box J2	FHX	
FOXJ3	Forkhead box J3		
FOXK1	Forkhead box K1	FOXK1L	
FOXK2	Forkhead box K2	ILF, ILF-1, ILF1	
FOXL1	Forkhead box L1	FKH6, FKHL11, FREAC7	
FOXN2	Forkhead box N2	HTLF	
FOXN3	Forkhead box N3	C14orf116, CHES1, PRO1635	
FOXO3	Forkhead box O3	AF6q21, FKHRL1, FKHRL1P2, FOXO2A, FOXO3	
FOXP1	Forkhead box P1	HSPC215, 12CC4, QRF1, hFKH1B	√
FOXP2	Forkhead box P2	CAGH44, SPCH1, TNRC10	
FPGT	Fucose-1-phosphate guanylyltransferase	GFPP	
FPR2	Formyl peptide receptor 2	ALXR, FMLP-R-II, FMLPXA, FPRH1, FPRH2, FPRL1, HML2_HUMAN, FMLPT, FPRH1, FPRH2, FPRL2, RMLP-R-I	
FPR3	Formyl peptide receptor 3		
FRAS1	Fraser extracellular matrix complex subunit 1		
FRAT2	Frequently rearranged in advanced T-cell lymphomas 2	RP11-452K12.2	
FREM2	FRAS1 related extracellular matrix protein 2		
FRG2	FSHD region gene 2	FRG2A	
FRMD4A	FERM domain containing 4A	RP11-397C18.4, FRMD4, bA295P9.4	
FRMD6	FERM domain containing 6	C14orf31, EX1, Willin, c14_5320	
FRMD7	FERM domain containing 7	RP6-213H19.2, NYS, NYS1, XIPAN	
FRMD8	FERM domain containing 8	FKSG44	
FRMPD4	FERM and PDZ domain containing 4	PDZD10, PDZK10	
FRRS1	Ferric-chelate reductase 1	SDFR2, SDR2	

FRS2	Fibroblast growth factor receptor substrate 2	FRS2Aalpha, SNT, SNT-1, SNT1, FRS2	
FRS3	Fibroblast growth factor receptor substrate 3	RP11-296J23.2, FRS2-beta, FRS2B, FRS2beta, SNT-2, SNT2	
FRY	Furry homolog (Drosophila)	RP11-57E23.6, 15CDNA73, 214K23.2, CT50H14, CG002, hA207N4.2, hA37E22.1	
FRYL	FRY-like	KIAA0826	
FSD1L	Fibronectin type III and SPRY domain containing 1-like	RP11-255C23.3, CGDC10, C3DUFD1, F3D1CL, FSD1NL, MIR1	
FSHR	Follicle stimulating hormone receptor	FSHRO, LGR1, ODG1	
FSIP2	Fibrous sheath interacting protein 2	hCG_1799183	
FSTL1	Follistatin-like 1	FRP, FSL1, MIR198	
FSTL3	Follistatin-like 3 (secreted glycoprotein)	UNQ674/PRO1308, FLRG, FSRP	√
FSTL4	Follistatin-like 4		
FSTL5	Follistatin-like 5		
FTLP10	Ferritin, light polypeptide pseudogene 10		
FTO	Fat mass and obesity associated	ALKBH9	
FTSJD1			
FTSJD2			
FUBP3	Far upstream element (FUSE) binding protein 3	RP11-57C19.3, FBP3	
FUCA1	Fucosidase, alpha-L- 1, tissue	RP11-45G17.1, FUCA	
FUK	Fucokinase	UNQ5838, 1110046B12Rik	
FUS	FUS RNA binding protein	ALS6, ETM41, HNRNPP2, POMP75, TLS, FUS	√
FUT1	Fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, H blood group)	H, HH, HSC	
FUT10	Fucosyltransferase 10 (alpha (1,3) fucosyltransferase)		
FUT4	Fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid specific)	CD15, ELFT, FCT3A, FUC-TIV, FUTIV, LeX, SSEA-1	
FUT5	Fucosyltransferase 5 (alpha (1,3) fucosyltransferase)	FUC-TV	
FUT9	Fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	Fuc-TIX	
FUZ	Fuzzy planar cell polarity protein	FY, NTD	
FXC1			
FXN	Frataxin	CyaY, FA, FARR, FRDA, X25	
FXYD6	FXYD domain containing ion transport regulator 6	UNQ521/PRO1056	
FYB	FYN binding protein	ADAP, PRO0823, SLAP-130	
FYTTD1	Forty-two-three domain containing 1	UIF	
FZD4	Frizzled class receptor 4	CD344, EVR1, FEVR3, FZ-4, FZ4, FZE4, GPCR, hFz4, FZD4	
G2E3	G2/M-phase specific E3 ubiquitin protein ligase	KIAA1333, PHF7B	
G3BP1	GTPase activating protein (SH3 domain) binding protein 1	G3BP, HDH-VIII	

G3BP2	GTPase activating protein (SH3 domain) binding protein 2		
GAB1	GRB2-associated binding protein 1		
GAB2	GRB2-associated binding protein 2		
GAB3	GRB2-associated binding protein 3		
GABARAPL2	GABA(A) receptor-associated protein-like 2	ATG8, ATG8C, GATE-16, GATE16, GEF-2, GEF2	
GABBR2	Gamma-aminobutyric acid (GABA) B receptor, 2	GABABR2, GPR51, GPRC3B, HG20, HRIHFB2099	
GABPB1	GA binding protein transcription factor, beta subunit 1	BABPB2, E4TF1, E4TF1-47, E4TF1-53, E4TF1B, GABPB, GABPB2, NRF2B1, NRF2B2	
GABRA1	Gamma-aminobutyric acid (GABA) A receptor, alpha 1	ECA4, EIEE19, EJM, EJM5	
GABRA2	Gamma-aminobutyric acid (GABA) A receptor, alpha 2		
GABRA4	Gamma-aminobutyric acid (GABA) A receptor, alpha 4		
GABRA5	Gamma-aminobutyric acid (GABA) A receptor, alpha 5		
GABRB2	Gamma-aminobutyric acid (GABA) A receptor, beta 2		
GABRB3	Gamma-aminobutyric acid (GABA) A receptor, beta 3	ECA5	
GABRG1	Gamma-aminobutyric acid (GABA) A receptor, gamma 1		
GABRG2	Gamma-aminobutyric acid (GABA) A receptor, gamma 2	CAE2, ECA2, GEFSP3	
GAD2	Glutamate decarboxylase 2 (pancreatic islets and brain, 65 kDa)	RP11-420F12.2, GAD65	
GADD45A	Growth arrest and DNA-damage-inducible, alpha	RP5-975D15.1, DDIT1, GADD45	
GADL1	Glutamate decarboxylase-like 1	ADC, CSADC, HuADC, HuCSADC	
GAL3ST1	Galactose-3-O-sulfotransferase 1	CST	
GAL3ST3	Galactose-3-O-sulfotransferase 3	GAL3ST-3, GAL3ST2	
GAL3ST4	Galactose-3-O-sulfotransferase 4	PP6968, GAL3ST-4	
GALK2	Galactokinase 2	GK2	
GALNT1	Polypeptide N-acetylgalactosaminyltransferase 1	GALNAC-T1	
GALNT10	Polypeptide N-acetylgalactosaminyltransferase 10	GALNACT10, PPGALNACT10, PPGANTASE10	
GALNT11	Polypeptide N-acetylgalactosaminyltransferase 11	tcag7.1057, GALNACT11	
GALNT12	Polypeptide N-acetylgalactosaminyltransferase 12	CRCS1, GalNAc-T12	
GALNT2	Polypeptide N-acetylgalactosaminyltransferase 2	RP5-956O18.1, GalNAc-T2	
GALNT3	Polypeptide N-acetylgalactosaminyltransferase 3	GalNAc-T3, HFTC, HHS	
GALNT4	Polypeptide N-acetylgalactosaminyltransferase 4	GALNAC-T4, GALNACT4	
GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5	GALNAC-T5, GALNACT5	
GALNT7	Polypeptide N-acetylgalactosaminyltransferase 6	GALNAC-T7, GalNAcT7	
GALNTL1			
GALNTL2			

GALNTL5			
GALP	Galanin-like peptide		
GAN	Gigaxonin	GAN1, KLHL16	
GANC	Glucosidase, alpha; neutral C		
GAPT	GRB2-binding adaptor protein, transmembrane	C5orf29	
GAPVD1	GTPase activating protein and VPS9 domains 1	RP11-184B22.1, GAPEX5, GAPex-5, RAP6	
GAR1	GAR1 ribonucleoprotein	NOLA1	
GAS1	Growth arrest-specific 1		
GAS2L1	Growth arrest-specific 2 like 1	GAR22	
GAS7	Growth arrest-specific 7	MLL/GAS7	√
GAS8	Growth arrest-specific 8	GAS11	
GATA2	GATA binding protein 2	DCML, IMD21, MONOMAC, NFE1B	√
GATA6	GATA binding protein 6		
GATAD2A	GATA zinc finger domain containing 2A	p66alpha	
GATAD2B	GATA zinc finger domain containing 2B	RP11-216N14.6, MRD18, P66beta, p68	
GATM	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)	AGAT, AT, CCDS3	
GATS	GATS, stromal antigen 3 opposite strand	tcag7.1177, STAG3OS	
GBA2	Glucosidase, beta (bile acid) 2	AD035, SPG46	
GBA3	Glucosidase, beta (bile acid) 3	CBG, CBGL1, GLUC, KLRP	
GBAS	Glioblastoma amplified sequence	NIPSNAP2	
GBF1	Golgi brefeldin A resistant guanine nucleotide exchange factor 1	ARF1GEF	
GBP1	Guanylate binding protein 1, interferon-inducible		
GBP2	Guanylate binding protein 2, interferon-inducible		
GBP4	Guanylate binding protein 4	Mpa2	
GBP6	Guanylate binding protein 6		
GCA	Grancalcin, EF-hand calcium binding protein	GCL	
GCAT	Glycine C-acetyltransferase	KBL	
GCC2	GRIP and coiled-coil domain containing 2	GCC185, RANBP2L4, REN53	
GCFC1			
GCH1	GTP cyclohydrolase 1	DYT14, DYT5, DYT5a, GCH, GTP-CH-1, GTPCH1, HRABH4B	
GCLC	Glutamate-cysteine ligase, catalytic subunit	GCL, GCS, GLCL, GLCLC	
GCLM	Glutamate-cysteine ligase, modifier subunit	RP4-561L24.2, GLCLR	
GCM1	Glial cells missing homolog 1 (Drosophila)	GCMA, hGCMa	

GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	GCN1, GCN1L, PRIC295	
GCNT1	Glucosaminyl (N-acetyl) transferase 1, core 2	RP11-214N16.1, C2GNT, C2GNT-L, C2GNT1, G6NT, NAGCT2, NAGCT2A	
GCNT2	Glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	RP11-421M1.1, CCA1, CTRCT15C, GCNT3, IGNT, II, NAGCT1, NAGCT1-ULG2, hA260O10.2, hA421M1.1	
GCOM1	GRINL1A complex locus 1	GRINL1A, Gcom2, MYZAP, MYZAP-POLR2M, gcom	
GDA	Guanine deaminase	RP11-63P12.1, CYPIN, GUANASE, NEDASIN	
GDAP1	Ganglioside induced differentiation associated protein 1	CMT4, CMT4A, CMTRIA	
GDAP2	Ganglioside induced differentiation associated protein 2	MACROD3	
GDEP			
GDI1	GDP dissociation inhibitor 1	XX-FW81657B9.1, 1A, GDIL, MRX41, MRX48, ORHN2, RABGD1A, RABGDIA, XAP-4	
GDPD1	Glycerophosphodiester phosphodiesterase domain containing 1	GDE4	
GEMIN6	Gem (nuclear organelle) associated protein 6		
GEN1	GEN1 Holliday junction 5' flap endonuclease	Gen	
GFM1	G elongation factor, mitochondrial 1	COXPD1, EFG, EFG1, EFGM, EGF1, GFM, hEFG1	
GFOD1	Glucose-fructose oxidoreductase domain containing 1	RP11-501I19.1, ADG-90, C6orf114	
GFOD2	Glucose-fructose oxidoreductase domain containing 2	UNQ9430/PRO34691	
GFPT1	Glutamine--fructose-6-phosphate transaminase 1	CMS7A1, GFA, GFAT, GFAT 1, GFAT1, GFAT1m, GFPT, MSLG, GFPT1	
GFRA1	GDNF family receptor alpha 1	GDNFR, GDNFRA, GFR-ALPHA-1, RETL, RETL1, TRNR1	
GGA2	Golgi-associated, gamma adaptin ear containing, ARF binding protein 2	VEAR	
GGA3	Golgi-associated, gamma adaptin ear containing, ARF binding protein 3		
GGCT	Gamma-glutamylcyclotransferase	C7orf24, CRF21, GCTG, GGC	
GGNBP2	Gametogenetin binding protein 2	DIF-3, DIF3, LCRG1, LZK1, ZFP403, ZNF403	
GGPS1	Geranylgeranyl diphosphate synthase 1	GGPPS, GGPPS1	
GGT7	Gamma-glutamyltransferase 7	RP1-18C9.2, D20S101, GGT4, GGTL3, GGTL3, dJ18C9.2	
GGT8P	Gamma-glutamyltransferase 8 pseudogene		
GHITM	Growth hormone inducible transmembrane protein	My021, DERP2, HSPC282, MICS1, PTD010, TMBIM5	
GHR	Growth hormone receptor	GHBP	
GHRLOS	Ghrelin opposite strand/antisense RNA	GHRL-AS1, GHRLAS, NCRNA00068	
GIGYF1	GRB10 interacting GYF protein 1	PP3360, GYF1, PERQ1	
GIGYF2	GRB10 interacting GYF protein 2	GYF2, PARK11, PERQ2, PERQ3, TNRC15	
GIMAP7	GTPase, IMAP family member 7	IAN7, hIAN7	
GIN1	Gypsy retrotransposon integrase 1	GIN-1, TGIN1, ZH2C2	
GIPC2	GIPC PDZ domain containing family, member 2	SEMCAP-2, SEMCAP2	
GIT1	G protein-coupled receptor kinase interacting ArfGAP 1		

GIT2	G protein-coupled receptor kinase interacting ArfGAP 2	CAT-2, CAT2	
GJA3	Gap junction protein, alpha 3, 46 kDa	CTRCT14, CX46, CZP3	
GJA4	Gap junction protein, alpha 4, 37 kDa	RP1-34M23.4, CX37	
GJA5	Gap junction protein, alpha 5, 40 kDa	ATFB11, CX40	
GJA9	Gap junction protein, alpha 9, 59 kDa	RP5-864K19.2, CX58, CX59, GJA10	
GJB6	Gap junction protein, beta 6, 30 kDa	CX30, DFNA3, DFNA3B, DFNB1B, ECTD2, ED2, EDH, HED, HED2	
GJB7	Gap junction protein, beta 7, 25 kDa	CX25, bA136M9.1, connexin25	
GJC1	Gap junction protein, gamma 1, 45 kDa	CX45, GJA7	
GK	Glycerol kinase	GK1D, GK	
GK5	Glycerol kinase 5 (putative)	RP11-485G4.2	
GLB1	Galactosidase, beta 1	EBP, ELNR1, MPS4B	
GLB1L2	Galactosidase, beta 1-like 2	MSTP014, MST114, MSTP114	
GLCCI1	Glucocorticoid induced transcript 1	FAM117C, GCTR, GIG18, TSSN1	
GLDN	Gliomedin	UNQ9339/PRO34011, CLOM, COLM, CRG-L2, CRGL2, UNC-112	
GLG1	Golgi glycoprotein 1	RP11-252A24.7, CFR-1, ESL-1, MG-160, MG160	
GLI2	GLI family zinc finger 2	HPE9, PHS2, THP1, THP2	
GLIPR1	GLI pathogenesis-related 1	CRISP7, GLIPR, RTVP1	
GLIPR1L2	GLI pathogenesis-related 1 like 2		
GLIPR2	GLI pathogenesis-related 2	RP11-421H8.5, C9orf19, GAPR-1, GAPR1	
GLIS3	GLIS family zinc finger 3	ZNF515	
GLP1R	Glucagon-like peptide 1 receptor		
GLRA3	Glycine receptor, alpha 3		
GLRX	Glutaredoxin (thioltransferase)	GRX, GRX1	
GLS	Glutaminase	AAD20, GAC, GAM1, KGA, GLS	
GLT1D1	Glycosyltransferase 1 domain containing 1		
GLT25D1			
GLT8D2	Glycosyltransferase 8 domain containing 2	UNQ1901/PRO4347	
GLYAT	Glycine-N-acyltransferase	ACGNAT, CAT, GAT	
GLYATL1	Glycine-N-acyltransferase-like 1	GATF-C, GNAT	
GLYATL3	Glycine-N-acyltransferase-like 3	RP11-28H17.5, C6orf140, bA28H17.2	
GLYCTK	Glycerate kinase	LP5910, HBEBP2, HBEBP4, HBeAgBP4A	
GLYR1	Glyoxylate reductase 1 homolog (Arabidopsis)	BM045, HIBDL, N-PAC, NP60	
GMFB	Glia maturation factor, beta	GMF	

GMPPA	GDP-mannose pyrophosphorylase A	AAMR	
GNA12	Guanine nucleotide binding protein (G protein), alpha 12	NNX3, RMP, gep	
GNA13	Guanine nucleotide binding protein (G protein), alpha 13	G13	
GNA14	Guanine nucleotide binding protein (G protein), alpha 14		
GNAI1	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1	Gi	
GNAI3	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	RP5-1160K1.2, 87U6, ARCND1	
GNAO1	Guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	EIEE17, G-ALPHA-o, GNAO	
GNAS	GNAS complex locus	RP4-545J19.4, AHO, C20orf51, GPSA, GSA, GSP, NESP, PHP1A, PHP1B, PHP1C, POH, GNAS	√
GNAT1	Guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 1	CSNBAD3, GBT1, GNATR	
GNAZ	Guanine nucleotide binding protein (G protein), alpha z polypeptide		
GNB1	Guanine nucleotide binding protein (G protein), beta polypeptide 1	RP1-283E3.7	
GNB4	Guanine nucleotide binding protein (G protein), beta polypeptide 4	RP11-145M9.4, CMTD1F	
GNB5	Guanine nucleotide binding protein (G protein), beta polypeptide 5	GB5	
GNG12	Guanine nucleotide binding protein (G protein), gamma 12	RP5-975D15.2	
GNG2	Guanine nucleotide binding protein (G protein), gamma 2		
GNG4	Guanine nucleotide binding protein (G protein), gamma 4		
GNL3L	Guanine nucleotide binding protein-like 3 (nucleolar)-like	RP11-353K22.1	
GNPDA1	Glucosamine-6-phosphate deaminase 1	GNP1, GNPDA, GNPI, GPI, HLN	
GNPDA2	Glucosamine-6-phosphate deaminase 2	GNP2, SB52	
GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	GNPTA, ICD	
GNRHR	Gonadotropin-releasing hormone receptor	GNRHR1, GRHR, HH7, LHRHR, LRHR	
GNS	Glucosamine (N-acetyl)-6-sulfatase	G6S	
GOLGA1	Golgin A1	RP11-175D17.2, golgin-97	
GOLGA3	Golgin A3	GCP170, MEA-2	
GOLGA6D	Golgin A6 family, member D		
GOLGA6L9	Golgin A6 family-like 9	GOLGA6L20	
GOLGA7	Golgin A7	HDCRB05P, GCP16, GOLGA5AP1A, H5PC041, GOLGA7	
GOLGA7B	Golgin A7 family, member B	C10orf132, C10orf133, bA451M19.3, bA459F3.4	
GOLGA8A	Golgin A8 family, member A	GM88	
GOLGA8B	Golgin A8 family, member B	GOLGA5	
GOLGA8C	Golgi autoantigen, golgin subfamily a, 8C		
GOLGA8DP	Golgin A8 family, member D, pseudogene		
GOLGA8E			

GOLGA8F	Golgin A8 family, member F		
GOLGA8G	Golgin A8 family, member G		
GOLGB1	golgin B1	GCP, GCP372, GOLIM1	
GOLM1	Golgi membrane protein 1	RP11-379F1.3, C9orf155, GOLPH2, GP73, HEL40, PSEC0257, bA379P1.3	
GOLPH3	Golgi phosphoprotein 3 (coat-protein)	GOPP1, GPP34, MIDAS	
GOLPH3L	Golgi phosphoprotein 3-like	RP11-54A4.7, GPP34R	
GOLT1A	Golgi transport 1A	RP11-205F10.3, CGI-141, GOT1, HMFN1187, YMR292W	
GOLT1B	Golgi transport 1B	CGI-141, GCT2, GOT1, GOT1B, YMR292W	
GON4L	Gon-4-like *(C. elegans)*	RP11-101O6.1, GON-4, GON4, YARP	
GOPC	Golgi-associated PDZ and coiled-coil motif containing	CAL, FIG1, PIST, dJ94G16.2, GOPC	√
GORAB	Golgin, RAB6-interacting	GO, NTKLBP1, SCYL1BP1	
GORASP1	Golgi reassembly stacking protein 1, 65kDa	GOLPH5, GRASP65, P65	
GORASP2	Golgi reassembly stacking protein 2, 55kDa	GOLPH6, GRASP55, GRS2, p59	
GOT1	Glutamic-oxaloacetic transaminase 1, soluble	ASTQTL1, GIG18, cAspAT, cCAT	
GOT2	Glutamic-oxaloacetic transaminase 2, mitochondrial	KAT4, KATIV, mitAAT	
GP5	Glycoprotein V (platelet)	CD42d, GPV	
GPAM	Glycerol-3-phosphate acyltransferase, mitochondrial	RP11-426E5.2, GPAT, GPAT1	
GPATCH2	G patch domain containing 2	RP11-361K17.1, CT110, GPATC2, PPP1R30	
GPBP1	GC-rich promoter binding protein 1	GPBP, SSH6, VASCULIN	
GPC2	Glypican 2		
GPC4	Glypican4	RP6-198C21.1, K-glypican	
GPC5	Glypican5		
GPCPD1	Glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisiae)	RP5-1022P6.2, GDE5, GDPD6, PREI4	
GPD1	Glycerol-3-phosphate dehydrogenase 1 (soluble)	AI747587, Gdc-1, Gdc1, mKIAA4010	
GPD1L	Glycerol-3-phosphate dehydrogenase 1-like	GPD1-L	
GPD2	Glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	GDH2, GPDM, mGPDH	
GPLD1	Glycosylphosphatidylinositol specific phospholipase D1	GPIPLD, GPIPLDM, PIGPLD, PIGPLD1, PLD	
GPM6A	glycoprotein M6A	GPM6, M6A	
GPN2	GPN-loop GTPase 2	RP1-50O24.5, ATPBD1B	
GPN3	GPN-loop GTPase 3	AD-009, ATPBD1C	
GPR107	G protein-coupled receptor 107	GCDRP, LUSTR1, bA138E2.2	
GPR110	G protein-coupled receptor 110	RP11-39C2.1, KPG_012, PGR19, hGPCR36	
GPR113	G protein-coupled receptor 113	UNQ9196, PGR23, hGPCR37	

GPR116	G protein-coupled receptor 116	KPG_001	
GPR12	G protein-coupled receptor 12	GPCR12, GPCR21, PPP1R84	
GPR123	G protein-coupled receptor 123	RP13-439H18.10-002	
GPR124	G protein-coupled receptor 124	TEM5	
GPR125	G protein-coupled receptor 125	UNQ556/PRO1113, PGR21, TEM5L	
GPR126	G protein-coupled receptor 126	APG1, DREG, PS1TP2, VIGR	
GPR132	G protein-coupled receptor 132	G2A	
GPR135	G protein-coupled receptor 135	HUMNPIIY20	
GPR137B	G protein-coupled receptor 137B	RP5-985L19.1, TM7SF1	
GPR137C	G protein-coupled receptor 137C	TM7SF1L2	
GPR155	G protein-coupled receptor 155	DEP.7, DEPDC3, PGR22	
GPR157	G protein-coupled receptor 157	RP5-963K15.2	
GPR160	G protein-coupled receptor 160	GPCR1, GPCR150	
GPR171	G protein-coupled receptor 171	H963	
GPR174	G protein-coupled receptor 174	FKSG79, GPCR17, LYPSR3	
GPR180	G protein-coupled receptor 180	ITR	
GPR22	G protein-coupled receptor 22	tcag7.108	
GPR26	G protein-coupled receptor 26		
GPR3	G protein-coupled receptor 3	ACCA	
GPR37L1	G protein-coupled receptor 37 like 1	ET(B)R-LP-2, ETBR-LP-2	
GPR4	G protein-coupled receptor 4		
GPR52	G protein-coupled receptor 52		
GPR6	G protein-coupled receptor 6		
GPR64	G protein-coupled receptor 64	CTD-2245E12.1, EDDM6, HE6, TM7LN2	
GPR81	hydroxycarboxylic acid receptor 1	FKSG80, GPR104, GPR81, HCA1, LACR1, TA-GPCR, TAGPCR	
GPR83	G protein-coupled receptor 83	GIR, GPR72	
GPR85	G protein-coupled receptor 85	SREB, SREB2	
GPR88	G protein-coupled receptor 88	STRG	
GPR98	G protein-coupled receptor 98	FEB4, MASS1, USH2B, USH2C, VLGR1, VLGR1b	
GPRC5B	G protein-coupled receptor, class C, group 5, member B	RAIG-2, RAIG2	
GPRIN1	G protein-regulated inducer of neurite outgrowth 1	GRIN1	
GPRIN3	GPRIN family member 3	GRIN3	
GPSM1	G-protein signaling modulator 1	RP13-270L15.1, AGS3	

GPT2	Glutamic pyruvate transaminase (alanine aminotransferase) 2	ALT2	
GPX3	Glutathione peroxidase 3 (plasma)	GPx-P, GSHPx-3, GSHPx-P	
GPX6	Glutathione peroxidase 6 (olfactory)	GPX5p, GPXP3, GPx-6, GSHPx-6, dJ1186N24, dJ1186N24.1	
GPX8	Glutathione peroxidase 8	UNQ847/PRO1785, EPLA847, GPx-8, GSHPx-8, UNQ847	
GRAMD1C	GRAM domain containing 1C	UNQ2543/PRO6095	
GRAMD2	GRAM domain containing 2		
GRAMD3	GRAM domain containing 3	NS3TP2	
GRAMD4	GRAM domain containing 4	RP6-59H18.4, DIP, dA59H18.1, dJ439F8.1	
GRAP	GRB2-related adaptor protein		
GRAP2	GRB2-related adaptor protein 2	RP5-970M22.1, GAD3, GRAP-2, GRB2L, GRBLG, GRID, GRPL, GrbX, Grf40, Mona, P38	
GRB10	Growth factor receptor-bound protein 10	GRB-IR, Grb-10, IRBP, MEG1, RSS	
GRB14	Growth factor receptor-bound protein 14		
GREB1	Growth regulation by estrogen in breast cancer 1		
GREM1	Gremlin 1, DAN family BMP antagonist	PIG2, CKTSF1B1, CRAC1, DAND2, DRM, GREMLIN, HMPS, IHG-2	
GREM2	Gremlin 2, DAN family BMP antagonist	CKTSF1B2, DAND3, PRDC	
GRHL1	Grainyhead-like 1	LBP32, MGR, NH32, TFCP2L2	
GRHL2	Grainyhead-like 2	BOM, DFNA28, TFCP2L3	
GRIA2	Glutamate receptor, ionotropic, AMPA 2	GLUR2, GLURB, GluA2, GluR-K2, HBGR2	
GRIA3	Glutamate receptor, ionotropic, AMPA 3	RP11-349N19.3, GLUR-C, GLUR-K3, GLUR3, GLURC, GluA3, MRX94	
GRIA4	Glutamate receptor, ionotropic, AMPA 4	GLUR4, GLUR4C, GLURD, GluA4	
GRID1	Glutamate receptor, ionotropic, delta 1	RP11-93H12.1, GluD1	
GRID2	Glutamate receptor, ionotropic, delta 2	GluD2	
GRIK2	Glutamate receptor, ionotropic, kainate 2	EAA4, GLR6, GLUK6, GLUR6, GluK2, MRT6	
GRIK3	Glutamate receptor, ionotropic, kainate 3	EAA5, GLR7, GLUR7, GluK3, GluR7a	
GRIN1	Glutamate receptor, ionotropic, N-methyl D-aspartate 1	RP11-330O14.1, GluN1, MRD8, NMDA1, NMDAR1, NR1	
GRIN2A	Glutamate receptor, ionotropic, N-methyl D-aspartate 2A	RP11-297M9.2, EPND, FESD, GluN2A, LKS, NMDAR2A, NR2A	
GRIN2C	Glutamate receptor, ionotropic, N-methyl D-aspartate 2C	GluN2C, NMDAR2C, NR2C	
GRINL1A			
GRIP1	Glutamate receptor interacting protein 1	GRIP	
GRIP2	Glutamate receptor interacting protein 2		
GRK6	G protein-coupled receptor kinase 6	GPRK6	
GRLF1			
GRM1	Glutamate receptor, metabotropic 1	GPRC1A, MGLU1, MGLUR1, PPP1R85, SCAR13	

GRM5	Glutamate receptor, metabotropic 5	GPRC1E, MGLUR5, PPP1R86, mGlu5	
GRM6	Glutamate receptor, metabotropic 6	CSNB1B, GPRC1F, MGLUR6, mGlu6	
GRM7	Glutamate receptor, metabotropic 7	GLUR7, GPRC1G, MGLU7, MGLUR7, PPP1R87	
GRM8	Glutamate receptor, metabotropic 8	GLUR8, GPRC1H, MGLUR8, mGlu8	
GRPEL1	GrpE-like 1, mitochondrial	HMGE	
GRPEL2	GrpE-like 2, mitochondrial	Mt-GrpE#2	
GRRP1			
GRSF1	G-rich RNA sequence binding factor 1		
GSG1L	GSG1-like	UNQ5831, PRO19651	
GSK3B	Glycogen synthase kinase 3 beta		
GSPT1	G1 to S phase transition 1	551G9.2, ETF3A, GST1, eRF3a	
GSR	Glutathione reductase	HEL-75	
GSS	Glutathione synthetase	GSHS, HEL-S-64p, HEL-S-88n	
GSTA4	Glutathione S-transferase alpha 4	RP1-214M20.1-4, GTA4,GSTA4	
GSTCD	Glutathione S-transferase, C-terminal domain containing		
GSTM2	Glutathione S-transferase mu 2 (muscle)	GST4, GSTM-2, GTHMUS,GSTM2	
GSTM3	Glutathione S-transferase mu 3 (brain)	RP4-735C1.2, GST5, GSTB-3, GTM3, GSTM3	
GSTM5	Glutathione S-transferase mu 5	RP4-735C1.1-5, GTM5,GSTM5	
GTDC1	Glycosyltransferase-like domain containing 1	Hmat-Xa, mat-Xa	
GTF2E1	General transcription factor IIE, polypeptide 1, alpha 56kDa	FE, TF2E1, TFIIE-A	
GTF2E2	General transcription factor IIE, polypeptide 2, beta 34kDa	FE, TF2E2, TFIIE-B	
GTF2F2	General transcription factor IIF, polypeptide 2, 30kDa	BTF4, RAP30, TF2F2, TFIIF	
GTF2H1	General transcription factor IIH, polypeptide 1, 62kDa	BTF2, P62, TFB1, TFIIH	
GTF2H2	General transcription factor IIH, polypeptide 2, 44kDa	BTF2, BTF2P44, T-BTF2P44, TFIIH, p44	
GTF2H2B	General transcription factor IIH, polypeptide 2B (pseudogene)		
GTF2H2C	GTF2H2 family member C		
GTF2H2D	GTF2H2 family member C, copy 2	GTF2H2D	
GTF2H5	General transcription factor IIH, polypeptide 5	C6orf173, TFB5, TFIIH, TGF2H5, TTD, TTD-A, TTDA, bA120I8.2	
GTF2I	General transcription factor IIi	BAP135, BTKAP1, BIWS, GTFII-I, IB291, SPIN, TFII-I, WBS, WBSCR6	
GTF2IP1	General transcription factor IIi, pseudogene 1	WBSCR7	
GTF3A	General transcription factor IIIA	RP11-125I23.2, AP2, TFIIIA	
GTF3C4	General transcription factor IIIC, polypeptide 4, 90kDa	KAT12, TFIII90, TFIIIC290, TFIIIC90, TFIIICDELTA	
GTPBP1	GTP binding protein 1	RP3-508I15.1, GP-1, GP1, HSPC018	

GTPBP10	GTP-binding protein 10 (putative)	UG0751c10, ObgH2	
GTPBP3	GTP binding protein 3 (mitochondrial)	GTPBG3, MSS1, MTGP1, THDF1	
GTPBP6	GTP binding protein 6 (putative)	LL0XNC01-136G2.2, PGPL	
GTSE1	G-2 and S-phase expressed 1	RP5-1163J1.2, B99	
GUCA1B	Guanylate cyclase activator 1B (retina)	RP1-139D8.1, GCAP2, GUCA2, RP48	
GUCY1A3	Guanylate cyclase 1, soluble, alpha 3	RP11-568K22.2, GC-3A3, GUCY1A3, GUCA3, GUC3A3, GUCY1A1, MYMY6	
GUCY1B2	Guanylate cyclase 1, soluble, beta 2 (pseudogene	GC-SB2	
GUCY1B3	Guanylate cyclase 1, soluble, beta 3	GC-3-beta-1, GC-3B3, GUC1B3, GUCB3, GUC3B3, GUCY1B1	
GUF1	GUF1 GTPase homolog	EF-4	
GULP1	GULP, engulfment adaptor PTB domain containing 1	CED-6, CED6, GULP	
GUSBP1	Glucuronidase, beta pseudogene 1		
GXYLT1	Glucoside xylosyltransferase 1	GLT8D3	
GYG2	Glycogenin 2	GN-2, GN2	
GYPA	Glycophorin A (MNS blood group)	CD235a, GPA, GPEnk, GP3AT, HGpMIV, HGpMIXI,	
GYPC	Glycophorin C (Gerbich blood group)	CD236, CD236R, GE, GPC, GPD, GYPD, PAS-2, PAS-2'	
GYS2	Glycogen synthase 2 (liver)		
H1F0	H1 histone family, member 0	H10, H1FV	
H2AFJ	H2A histone family, member J	H2AJ	
H2AFV	H2A histone family, member V	H2A.Z-2, H2AV	
H2AFZ	H2A histone family, member Z	H2A.Z-1, H2A.z, H2A/z, H2AZ	
H3F3B	H3 histone, family 3B (H3.3B)	H3.3B	√
H3F3C	H3 histone, family 3C	H3.5	
H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	RP3-510D11.3, CORTRD1, G6PDH, GDH	
HABP2	Hyaluronan binding protein 2	FSAP, HABP, HGFAL, PHBP	
HADHA	Hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase	ECHA, GBP, HADH, ECEH, ECHAD, MTPA, TP-ALPHA	
HADHB	Hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase	MSTP029, ECHB, MTPB, TP-BETA	
HAND2	Heart and neural crest derivatives expressed 2	DHAND2, Hed, Thing2, bHLHa26, dHand	
HAO1	Hydroxyacid oxidase (glycolate oxidase) 1	GOX, GOX1, HAOX1	
HAPLN1	Hyaluronan and proteoglycan link protein 1	CRTL1	
HAPLN4	Hyaluronan and proteoglycan link protein 4	BRAL2	
HAR1A	Highly accelerated region 1A (non-protein coding)	HAR1F; LINC00064; NCRNA00064	
HAUS2	HAUS augmin-like complex, subunit 2	C15orf25, CEP27, HsT17025	
HAUS3	HAUS augmin-like complex, subunit 3	C4orf15, IT1, dgt3	

HAUS5	HAUS augmin-like complex, subunit 5	KIAA0841, dgt5	
HAUS6	HAUS augmin-like complex, subunit 6	RP11-296P7.3, Dgt6, FAM29A	
HAVCR2	Hepatitis A virus cellular receptor 2	HAVcr-2, KIM-3, TIM3, TIMD-3, TIMD3, Tim-3	
HBD	Hemoglobin, delta		
HBP1	HMG-box transcription factor 1		
HBS1L	HBS1-like translational GTPase	RP11-349J5.1, EF-1a, ERFS, HBS1, HSPC276, eRF3c	
HCFC1	Host cell factor C1	CFF, HCF-1, HCF1, HFC1, MRX3, PPP1R89, VCA	
HCFC2	Host cell factor C2	HCF-2, HCF2	
HCG11	HLA complex group 11 (non-protein coding)	bK14H9.3	
HCLS1	hematopoietic cell-specific Lyn substrate 1	CTTNL, HS1, lckBP1, p75	
HCN1	hyperpolarization activated cyclic nucleotide-gated potassium channel 1	BCNG-1, BCNG1, EIEE24, HAC-2	
HCN2	hyperpolarization activated cyclic nucleotide-gated potassium channel 2	BCNG-2, BCNG2, HAC-1	
HCN4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4	SSS2	
HCP5	LA complex P5 (non-protein coding)	6S2650E, D6S2650E, P5-1	
HCRTR2	Hypocretin (orexin) receptor 2	OX2R	
HDAC4	Histone deacetylase 4	AHO3, BDMR, HA6116, HD4, HDAC-4, HDAC-A, HDACA	
HDAC6	Histone deacetylase 6	JM21, CPBHM, HD6, PPP1R90	
HDAC8	Histone deacetylase 8	CDA07, CDLS5, HD8, HDACL1, MRXS6, RPD3, WTS	
HDAC9	Histone deacetylase 9	HD7, HD7b, HD9, HDAC, HDAC7, HDAC7BB, HDAC9FL, HDRP, MITR, HDAC9	
HDGFRP3	Hepatoma-derived growth factor, related protein 3	CGI-142HDGF-2, HDGF2, HRP-3	
HDHD1A	haloacid dehalogenase-like hydrolase domain containing 1	DXF68S1E, FAM16AX, GS1A, HDHD1	
HDX	Highly divergent homeobox	RP6-162O13.1, CXorf43, D030011N01Rik	
HEATR2	HEAT repeat containing 2	CILD18	
HEATR3	HEAT repeat containing 3	SYO1	
HEATR7A			
HEBP1	Heme binding protein 1	HBP, HEBP	
HECA	Headcase homolog	HDC, HDCL, HHDC, dJ225E12.1	
HECTD2	HECT domain containing E3 ubiquitin protein ligase 2	RP11-108M11.2	
HECW1	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	NEDL1	
HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	NEDL2	
HEG1	heart development protein with EGF-like domains 1	HEG, MST112, MSTP112	
HELLS	Helicase, lymphoid-specific	Nbla10143, LSH, PASG, SMARCA6	
HELZ	Helicase with zinc finger	DHRC, DRHC, HUMORF5	

HEMGN	Hemogen	PRO1037, CT155, EDAG, EDAG-1, NDR	
HEMK1	HemK methyltransferase family member 1	HEMK, MTQ1	
HEPH	Hephaestin	RP13-238N7.1, CPL	
HEPHL1	Hephaestin-like 1		
HEPN1	Hepatocellular carcinoma, down-regulated 1		
HERC2P2	Hect domain and RLD 2 pseudogene 2	D15F37S3, MN7	
HERC3	HECT and RLD domain containing E3 ubiquitin protein ligase family member 3		
HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase family member 4	RP11-57G10.4	
HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6	RP11-10L7.1	
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	HERP, Mif1, SUP	√
HES2	Hes family bHLH transcription factor 2	bHLHb40	
HES5	Hes family bHLH transcription factor 5	RP3-395M20.5, bHLHb38	
HEXIM1	Hexamethylene bis-acetamide inducible 1	CLP1, EDG1, HIS1, MAQ1	
HEY1	Hes-related family bHLH transcription factor with YRPW motif 1	bHLHb31, CHF2, HERP2, HESR1, HRT-1, OAF1, hHRT1	√
HEY2	Hes-related family bHLH transcription factor with YRPW motif 2	RP1-293L8.3, CHF1, GRIDLOCK, GKL, HERP1, HESR2, HRT2, bHLHb32	
HFE2	Hemochromatosis type 2 (juvenile)	HFE2A, HJV, JH, RGMC	
HGC6.3	Uncharacterized LOC100128124		
HGF	Hepatocyte growth factor (hepapoietin A; scatter factor)	DFNB39, F-TCFB, HPTA, SF, HGF	
HGSNAT	Heparan-alpha-glucosaminide N-acetyltransferase	HGNAT, MPS3C, TMEM76	
HHAT	Hedgehog acyltransferase	MART2, SKI1, Skn	
HHIP	Hedgehog interacting protein	UNQ5825/PRO19644, HIP	
HHIPL1	HHIP-like 1	UNQ9245/PRO34761, KIAA1822, UNQ9245	
HHLA1	HERV-H LTR-associating 1	PLA2L	
HHLA2	HERV-H LTR-associating 2	B7H7	
HIC2	Hypermethylated in cancer 2	HRG22, ZBTB30, ZNF907	
HIF1AN	Hypoxia inducible factor 1, alpha subunit inhibitor	FIH1	
HIF3A	Hypoxia inducible factor 3, alpha subunit	HIF-3A, IPAS, MOP7, PASD7, bHLHe17	
HIGD1A	HIG1 hypoxia inducible domain family, member 1A	HSPC010, HIG1, RCF1a	
HIGD2A	HIG1 hypoxia inducible domain family, member 2A	RCF1b	
HINT3	Histidine triad nucleotide binding protein 3	HINT4	
HIP1R	Huntingtin interacting protein 1 related	HIP12, HIP3, ILWEQ	
HIPK1	Homeodomain interacting protein kinase 1	RP4-786G8.2, Myak, Nbak2	
HIPK2	Homeodomain interacting protein kinase 2	PRO0593	

HIST1H2BC	Histone cluster 1, H2bc	H2B.1, H2B/l, H2BFL, dJ221C16.3	
HIST1H2BD	Histone cluster 1, H2bd	H2B.1B, H2B/b, H2BFB, HIRIP2, dJ221C16.6	
HIST1H2BN	Histone cluster 1, H2bn	RP1-193B12.10-001, H2B/d, H2BFD	
HIST1H3D	Histone cluster 1, H3d	H3/b, H3FB	
HIST2H4A	Histone cluster 2, H4a	FO108, H4, H4/n, H4F2, H4FN, HIST2H4	
HIVEP1	Human immunodeficiency virus type I enhancer binding protein 1	RP5-451B15.2, CIRP, CRYBP1, GAAP, MBP-1, PRDII-BF1, Schnurri-1, ZAS1, ZNF40, ZNF40A	
HK1	Hexokinase 1	HK1-ta-tb, HK1-tc, HKD, HKI, HMSNR, HXK1, HK1	
HK2	Hexokinase 2	HKII, HXK2	
HKR1	HKR1, GLI-Kruppel zinc finger family member	ZNF875	
HLA-A	Major histocompatibility complex, class I, A	DAQB-90C11.16-002, HLAA	
HLA-B	Major histocompatibility complex, class I, B	CDABP0067, AS, HLAB, SPDA1	
HLA-C	Major histocompatibility complex, class I, C	XXbac-BCX101P6.2, D6S204, HLA-JY5, HLC-C, PSORS1	
HLA-DMB	Major histocompatibility complex, class II, DM beta	DAAP-27A1.4, D6S221E, RING7	
HLA-DPA1	Major histocompatibility complex, class II, DP alpha 1	DAAP-277G16.1, DP(W3), DP(W4), HLA-DPTA, HLADP, HLASB, PLT1	
HLA-DQA1	Major histocompatibility complex, class II, DQ alpha 1	DAQB-109B10.1, CD, CELIAC1, DQ-A1, GSE, HLA-DQA	
HLA-DQB2	Major histocompatibility complex, class II, DQ beta 2	DAMA-367I24.2, HLA-DQB1, HLA-DXB	
HLA-F	Major histocompatibility complex, class I, F	DADB-68M4.2, CDA12, HLA-5.4, HLA-CDA12, HLAF	
HLA-G	Major histocompatibility complex, class I, G	DADB-15K14.8, MHC-G	
HLA-J	Major histocompatibility complex, class I, J (pseudogene)	CDA12, D6S203, HLA-59, HLA-CDA12	
HLA-L	Major histocompatibility complex, class I, L (pseudogene)	hCG_23770, HLA-92, HLA92, HLAL	
HLF	Hepatic leukemia factor		√
HLTF	Helicase-like transcription factor	HIP116, HIP116A1, RNF80, SMARCA3, SNF2L3, ZBU1, HLTF.6, HIP1, IMP1, IMPA3, IMPA3-1,	
HM13	Histocompatibility (minor) 13	RP5-524O17.6, HIP1, IMP1, IMPA3, IMPA3-1, MSTP086, PSENL2, PSL2, SPP, SPPL1, dJ224O17.1	
HMBOX1	Homeobox containing 1	HNF1LA, HOT1, PBHNF	
HMBS	Hydroxymethylbilane synthase	PBG-D, PBGD, PORC, UPS	
HMGA2	High mobility group AT-hook 2	BABL, HMGI-C, HMGIC, LIPO, STQTL9	√
HMGB1	High mobility group box 1	RP11-550P23.1, HMG1, HMG3, SBP-1	
HMGB2	High mobility group box 2	HMGB2	
HMGB3	High mobility group box 3	HMG-2a, HMG-4, HMG2A, HMG4	
HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase	HL	
HMGCLL1	3-hydroxymethyl-3-methylglutaryl-CoA lyase-like 1	RP11-418P12.1, bA418P12.1, er-cHL	
HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)	HMGCS	
HMGN2	High mobility group nucleosomal binding domain 2	HMG17	

HMGXB4	HMG box domain containing 4	RP3-510H16.1, HMG2L1, HMGBCG, THC211630	
HMX1	H6 family homeobox 1	H6, NKX5-3	
HNF1B	HNF1 homeobox B	[illegible]	
HNF4G	Hepatocyte nuclear factor 4, gamma	NR2A2, NR2A3	
HNMT	Histamine N-methyltransferase	HMT-S1, HNMT-S2, HNMT	
HNRNPA0	Heterogeneous nuclear ribonucleoprotein A0	HNRPA0	
HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	[illegible]	
HNRNPA2B1	Heterogeneous nuclear ribonucleoprotein A2/B1	[illegible]	√
HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	2610510D13Rik, D10S102, FBRNP, HNRPA3	
HNRNPA3P1	Heterogeneous nuclear ribonucleoprotein A3 pseudogene 1	D10S102, FBRNP, HNRPA3, HNRPA3P1	
HNRNPC	Heterogeneous nuclear ribonucleoprotein C (C1/C2)	C1, C2, HNRNP, HNRPC, SNRPC	
HNRNPD	Heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37 kDa)	AUF1, AUF1A, HNRPD, P37, hnRNPD0	
HNRNPH1	Heterogeneous nuclear ribonucleoprotein H1 (H)	HNRPH, HNRPH1, hnRNPH	
HNRNPH3	Heterogeneous nuclear ribonucleoprotein H3 (2H9)	2H9, HNRPH3	
HNRNPK	Heterogeneous nuclear ribonucleoprotein K	RP11-575L7.1, CSBP, HNRPK, TUNP	
HNRNPU	Heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	RP11-11N7.3, HNRPU, SAF-A, U21.1, hnRNP U	
HOMER2	Homer homolog 2 (Drosophila)	ACPD, CPD, HOMER-2, VESL-	
HOOK1	Hook microtubule-tethering protein 1	HK1	
HOOK3	Hook microtubule-tethering protein 3	HK3	√
HOXA1	Homeobox A1	BSAS, HOX1, HOX1F	
HOXA11	Homeobox A11	HOX1, HOX1I	√
HOXA3	Homeobox A3	HOX1, HOX1E	
HOXA7	Homeobox A7	ANTP, HOX1, HOX1.1, HOX1A	
HOXB4	Homeobox B4	HOX-2.6, HOX2, HOX2F	
HOXB5	Homeobox B5	HHO.C10, HOX2, HOX2A, HU-1, Hox2.1	
HOXB8	Homeobox B8	HOX2, HOX2D, Hox-2.4	
HOXB9	Homeobox B9	HOX-2.5, HOX2, HOX2E	
HOXC11	Homeobox C11	HOX3H	√
HOXC13	Homeobox C13	ECTD9, HOX3, HOX3G	√
HOXC5	Homeobox C5	CP11, HOX3, HOX3D	
HOXC8	Homeobox C8	HOX4, HOX4E, HOX5.4	
HOXD1	Homeobox D1	HOX4, HOX4G, Hox-4.7	
HOXD10	Homeobox D10	HOX4, HOX4D, HOX4E, Hox-4.4	

HOXD3	Homeobox D3	HOX1D, HOX4, HOX4A, Hox-4.1	
HOXD8	Homeobox D8	HOX4, HOX4E, HOX5.4	
HP1BP3	Heterochromatin protein 1, binding protein 3	RP5-930J4.3, HP1-BP74	
HPCAL4	Hippocalcin like 4	HLP4	
HPGD	Hydroxyprostaglandin dehydrogenase 15-(NAD)	15-PGDH, PGDH, PGDH1, PHOAR1, SDR36C1	
HPRT1	Hypoxanthine phosphoribosyltransferase 1	HGPRT, HPRT	
HPS3	Hermansky-Pudlak syndrome 3	SUTAL	
HPS4	Hermansky-Pudlak syndrome 4	CTB-1048E9.4, LE	
HPS5	Hermansky-Pudlak syndrome 5	AIBP63	
HPSE2	Heparanase 2 (inactive)	HPA2, HPR2, UFS, UFS1	
HR	Hair growth associated	ALUNC, AU, HSA277165, HYPT4, MUHH, MUHH1	
HRASLS5	HRAS-like suppressor family, member 5	HRLP5, HRSL5, RLP1, iNAT	
HRCT1	Histidine rich carboxyl terminus 1	RP11-327L3.6, LGLL338, PRO537, UNQ338	
HRH1	Histamine receptor H1	H1-R, hisH1	
HRH4	Histamine receptor H4	AXOR35, BG26, GPCR105, GPRv53, H4, H4R, HH4R	
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1	dJ604K5.2	
HS3ST2	Heparan sulfate 2-O-sulfotransferase		
HS3ST3A1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1	UNQ2551/PRO6180, 30ST3A1, 3OST3A1	
HS6ST1	Heparan sulfate 6-O-sulfotransferase 1	HH15, HS6ST	
HS6ST3	heparan sulfate 6-O-sulfotransferase 3	RP11-235O20.1, HS6ST-3	
HSBP1L1	Heat shock factor binding protein 1-like 1		
HSD11B1	Hydroxysteroid (11-beta) dehydrogenase 1	11-DH, 11-beta-HSD1, CORTRD2, HDL, HSD11, HSD11B, HSD11L, SDR26C1	
HSD17B1	Hydroxysteroid (17-beta) dehydrogenase 1	EDH17B2, EDHB17, HSD17, SDR28C1	
HSD17B11	Hydroxysteroid (17-beta) dehydrogenase 11	PSEC0025, 17-BETA-HSD11, 17-BETA-HSDX1, 17BHSD11, DHRS8, RAN1B, RETSDR2, SDR16C2	
HSD17B12	Hydroxysteroid (17-beta) dehydrogenase 12	KAR, SDR12C1	
HSD17B2	Hydroxysteroid (17-beta) dehydrogenase 2	EDH17B2, HSD17, SDR9C2	
HSD17B7	Hydroxysteroid (17-beta) dehydrogenase 7	RP11-331H2.1, PRAP, SDR37C1	
HSD3B1	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1	RP5-920G3.4, 3BETAHSD, HSD3B, HSDB3, HSDB3A, L-SDR11E1	
HSDL1	Hydroxysteroid dehydrogenase like 1	SDR12C3	
HSDL2	Hydroxysteroid dehydrogenase like 2	RP11-32M23.1, C9orf99, SDR13C1	
HSF2	Heat shock transcription factor 2	HSF 2, HSTF 2	
HSF2BP	Heat shock transcription factor 2 binding protein		
HSFX1	Heat shock transcription factor family, X linked 1	hCG_27154, LW-1	

HSFY1	Heat shock transcription factor, Y-linked 1	HSF2L, HSFY	
HSFY2	Heat shock transcription factor, Y-linked 2	HSF2L, HSFY	
HSP90AB2P	Heat shock protein 90 kDa alpha (cytosolic), class B member 2 pseudogene	HSP90BB	
HSP90B1	Heat shock protein 90 kDa beta (Grp94), member 1	ECGP, GP96, GRP94, HEL-S-125m, HEL35, TRA1	
HSPA12A	Heat shock 70 kDa protein 12A	RP11-539I5.1	
HSPA12B	Heat shock 70kD protein 12B	RP5-1009E24.4, C20orf60, dJ1009E24.2	
HSPA13	Heat shock protein 70 kDa family, member 13	STCH	
HSPA1B	Heat shock 70 kDa protein 1B	DAAP-21F2.7, HSP70-1B, HSP70-2	
HSPA1L	Heat shock 70 kDa protein 1-like	DADB-333F21.3, HSP70-1L, HSP70-HOM, HSP701, hum70t	
HSPA5	Heat shock 70 kDa protein 5 (glucose-regulated protein, 78kDa)	BIP, GRP78, HEL-S-89n, MIF2	
HSPB11	Heat shock protein family B (small), member 11	HSPC034, C1orf41, HSPCO34, IFT25, PP25	
HSPB3	Heat shock 27 kDa protein 3	DHMN2C, HMN2C, HSPL27	
HSPC157			
HSPC159			
HSPH1	Heat shock 105 kDa/110kDa protein 1	RP11-173P16.1, HSP105, HSP105A, HSP105B, NY-CO-25	
HTATSF1	HIV-1 Tat specific factor 1	RP1-196E23.2, TAT-SF1, TATSF1, dJ196E23.2	
HTR1F	5-Hydroxytryptamine (serotonin) receptor 1F, G protein coupled	5-HT-1F, 5-HT1F, 5HT6, HTR1EL, MR77	
HTR2C	5-Hydroxytryptamine (serotonin) receptor 2C, G protein coupled	RP11-810O3.1, 5-HT2C, 5-HTR2C, 5HTR2C, HTR1C	
HTR4	5-Hydroxytryptamine (serotonin) receptor 4, G protein coupled	5-HT4, 5-HT4R	
HTR7	5-Hydroxytryptamine (serotonin) receptor 7, adenylate cyclase coupled	RP11-103A2.1, 5-HT7	
HTR7P1	5-Hydroxytryptamine (serotonin) receptor 7 pseudogene 1		
HTT	Huntingtin	HD, IT15	
HUS1	HUS1 checkpoint homolog (S. pombe)	tcag7.704, hHUS1	
HUWE1	HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase	RP5-939A18.4, ARF-BP1, HECTH9, HSPC272, Ib072, LASU1, MULE, UBE3B1, UREB1	
HVCN1	Hydrogen voltage-gated channel 1	UNQ578/PRO1140, HV1, VSOP	
HYAL2	Hyaluronoglucosaminidase 2	LUCA2	
HYAL4	Hyaluronoglucosaminidase 4	CSHY	
HYALP1	Hyaluronoglucosaminidase pseudogene 1	tcag7.1303, HYAL6	
HYOU1	Hypoxia up-regulated 1	GRP-170, Grp170, HSP12A, ORP-150, ORP150	
IAPP	Islet amyloid polypeptide	DAP, IAP	
ICA1L	Islet cell autoantigen 1,69 kDa-like	ALS2CR14, ALS2CR15	
ICK	Intestinal cell (MAK-like) kinase	ECO, LCK2, MRK	
ICMT	Isoprenylcysteine carboxyl methyltransferase	RP1-120G22.4, HSTE14, M31098, M31P098, PCCMT, PGMT, PPMT	

ICOSLG	Inducible T-cell co-stimulator ligand	B7-H2, B7H2, B7RP-1, B7RP1, CD275, GL50, ICOS-L, ICOSL, LICOS	
ICT1	Immature colon carcinoma transcript 1	DS-1, DS1, MRP-L58	
ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	IDB4, bHLHb27	
IDE	Insulin-degrading enzyme	RP11-366I13.1, INSULYSIN	
IDH1	Isocitrate dehydrogenase 1 (NADP+), soluble	HEL-216, HEL-S-26, IDCD, IDH, IDP, IDPC, PICD	√
IDH3A	Isocitrate dehydrogenase 3 (NAD+) alpha		
IDI1	Isopentenyl-diphosphate delta isomerase 1	IPP1, IPPI1	
IDO2	Indoleamine 2,3-dioxygenase 2	INDOL1	
IDS	Iduronate 2-sulfatase	MPS2, SIDS	
IER2	Immediate early response 2	ETR101	
IFFO1	Intermediate filament family orphan 1	HOM-TES-103, IFFO	
IFFO2	Intermediate filament family orphan 2	RP1-93P18.1	
IFI44L	Interferon-induced protein 44-like	GS3686, C1orf29	
IFIT1	Interferon-induced protein with tetratricopeptide repeats 1	RP11-166O10.1, C56, G10P1, IFI-56, IFI-56K, IFI56, IFIT-1, IFNAI1, ISG56, P56, PNM561	
IFIT1B	Interferon-induced protein with tetratricopeptide repeats 1B	Chromosome 10, NC_000010.11 (89378056..89385205)	
IFIT5	Interferon-induced protein with tetratricopeptide repeats 5	P58, RI58	
IFNA17	Interferon, alpha 17	RP11-380P16.10-001, IFN-alphaI, IFNA, INFA, LEIF2C1	
IFNA4	Interferon, alpha 4	IFN-alpha4a, INFA4	
IFNAR1	Interferon (alpha, beta and omega) receptor 1	AVP, IFN-alpha-REC, IFNAR, IFNBR, IFRC	
IFNG	Interferon gamma	IFG, IFI	
IFRD1	Interferon-related developmental regulator 1	PC4, TIS7	
IFT172	Intraflagellar transport 172	NPHP17, SLB, SRTD10, osm-1, wim	
IFT27	Intraflagellar transport 27	LL22NC01-132D12.2, BBS19, RABL4, RAYL	
IFT57	Intraflagellar transport 57	ESRRBL1, HIPPI, MHS4R2	
IFT74	Intraflagellar transport 74	CCDC2, CMG-1, CMG1	
IFT80	Intraflagellar transport 80	ATD2, SRTD2, WDR56	
IFT81	Intraflagellar transport 81	CDV-1, CDV-1R, CDV1, CDV1R, DV1	
IFT88	Intraflagellar transport 88	RP11-172H24.2, D13S1056E, DAP19, TG737, TTC10, bT~737	
IGDCC3	Immunoglobulin superfamily, DCC subclass, member 3	HsT18880, PUNC	
IGDCC4	Immunoglobulin superfamily, DCC subclass, member 4	DDM36, NOPE	
IGF1	Insulin-like growth factor 1 (somatomedin C)	IGF-IA, IGFI, IGF1	
IGF1R	Insulin-like growth factor 1 receptor	CD221, IGFIR, IGFR, JTK13	
IGF2	Insulin-like growth factor 2	PP1446, C11orf43, IGF-II, PP9974	

IGF2BP2	Insulin-like growth factor 2 mRNA binding protein 2	IMP-2, IMP2, VICKZ2	
IGF2BP3	Insulin-like growth factor 2 mRNA binding protein 3	CT98, IMP-3, IMP3, KOC, KOC1, VICKZ3	
IGFBP3	Insulin-like growth factor binding protein 3	tcag7.703, BP-53, IBP3	
IGFBP4	Insulin-like growth factor binding protein 4	BP-4, HT29-IGFBP, IBP4, IGFBP-4	
IGFBP5	Insulin-like growth factor binding protein 5	IBP5	
IGFN1	Immunoglobulin-like and fibronectin type III domain containing 1	EEF1A2BP1	
IGHD	Immunoglobulin heavy constant delta		
IGHG1	Immunoglobulin heavy constant gamma 1 (G1m marker)		
IGL@			√
IGLL1	Immunoglobulin lambda-like polypeptide 1	14.1, AGM2, CD179b, IGL1, IGL3, IGLJ14.1, IGLL, IGO, IGVPB, VPREB2	
IGSF1	Immunoglobulin superfamily, member 1	RP11-665E9.1, CHTE, IGCD1, IGDC1, INHBP, PGSF2, p120	
IGSF11	Immunoglobulin superfamily, member 11	BT-IgSF, CT119, CXADRL1, Igsf13, VSIG3	
IGSF5	Immunoglobulin superfamily, member 5	GSF5, JAM4	
IGSF6	Immunoglobulin superfamily, member 6	DORA	
IGSF9	Immunoglobulin superfamily, member 9	RP11-48O20.2, FP18798A, Nrt1, IGSF9	
IKBIP	IKBKB interacting protein	IKIP	
IKBKB	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	IKK-beta, IKK2, IKKB, IMD15, NFKBIKB	
IKZF2	IKAROS family zinc finger 2 (Helios)	ANF1A2, HELIOS, ZNF1A2, ZNFN1A2	
IKZF4	IKAROS family zinc finger 4 (Eos)	EOS, ZNFN1A4	
IKZF5	IKAROS family zinc finger 5 (Pegasus)	PEGASUS, ZNFN1A5	
IL10	Interleukin 10	RP11-262N9.1, CSIF, GVHDS, IL-10A, TGIF, IL10	
IL10RA	Interleukin 10 receptor, alpha	CD210, CD210a, CDW210A, HIL-10R, IL-10R1, IL10R	
IL12A	Interleukin 12A	CLMF, IL-12A, NFSK, NKSF1, P35	
IL12B	Interleukin 12b	CLMF, CLMF2, IL-12B, IMD28, IMD29, NKSF, NKSF2	
IL12RB2	Interleukin 12 receptor, beta 2	RP11-102M16.1	
IL13RA2	Interleukin 13 receptor, alpha 2	CD213A2, CT19, IL-13R, IL13BP	
IL15	Interleukin 15	IL-15	
IL16	Inerleukin 16	LCF, NIL16, PRIL16, prIL-16	
IL17RC	Interleukin 17 receptor C	UNQ6118/PRO20040/PRO38901, IL17-RL, IL17RL	
IL17RD	Interleukin 17 receptor D	UNQ6115/PRO20026, HH18, IL-17RD, IL17RLM, SEF	
IL17RE	Interleukin 17 receptor E	UNQ3056/PRO9877	
IL17REL	Interleukin 17 receptor E-like	RP3-355C18.6	
IL18R1	Interleukin 18 receptor 1	CD218a, CDw218a, IL-1Rrp, IL18RA, IL1RRP	

IL1A	Interleukin 1, alpha	IL-1A, IL1, IL1-ALPHA, IL1F1	
IL1B	Interleukin 1, beta	IL-1, IL1-BETA, IL1F2	
IL1F5			
IL1F8			
IL1R1	Interleukin 1 receptor, type I	CD121A, D2S1473, IL-1R-alpha, IL1R, IL1RA, P80	
IL1RAP	Interleukin 1 receptor accessory protein	C3orf13, IL-1RAcP, IL1R3	
IL2	Interleukin 2	IL-2, TCGF, lymphokine	√
IL20RB	Interleukin 20 receptor beta	hCG_2022374, DIRS1, FNDC6, IL-20R2	
IL21R	Interleukin 21 receptor	UNQ3121/PRO10273, CD360, NILR	√
IL22RA2	Interleukin 22 receptor, alpha 2	UNQ3793/PRO19398/PRO19822, CRF2-10, CRF2-31, CRF2X, IL-22BP, IL-22R-alpha-2, IL-22RA2	
IL23A	Interleukin 23, alpha subunit p19	UNQ2498/PRO5798, IL-23, IL-23A, IL23P19, P19, SGRF	
IL23R	Interleukin 23 receptor		
IL24	Interleukin 24	C49A, FISP, IL10B, MDA7, MOB5, ST16	
IL25	Interleukin 25	UNQ3120/PRO10272, IL17E	
IL27RA	Interleukin 27 receptor, alpha	UNQ296/PRO336, CRL1, IL-27RA, IL27R, TCCR, WSX1, zcytor1	
IL2RB	Interleukin 2 receptor, beta	RP5-1170K4.6, CD122, IL15RB, P70-75	
IL3	Interleukin 3	IL-3, MCGF, MULTI-CSF	
IL31	Interleukin 31	IL-31	
IL33	Interleukin 33	RP11-373C20.2, C9orf26, DVS27, IL1F11, NF-HEV, NFEHEV	
IL6R	Interleukin 6 receptor	CD126, IL-6R-1, IL-6RA, IL6QA, IL6RQ, gp80, IL6R	
IL6ST	Interleukin 6 signal transducer	CD130, CDW130, GP130, IL-6RB	
IL7	Interleukin 7	IL-7	
IL7R	Interleukin 7 receptor	CD127, CDW127, IL-7R-alphaA, ILRA, IL7R	
IL8			
ILDR1	Immunoglobulin-like domain containing receptor 1	DFNB42alpha, ILDR1alpha', ILDR1beta, ILDR1	
ILDR2	Immunoglobulin-like domain containing receptor 2	RP4-782G3.2, C1orf32, dJ782G3.1	
ILF3	Interleukin enhancer binding factor 3, 90 kDa	CBTF, DRBF, DRBP76, MMP4, MPHOSPH4, MPP4, NF-AT-90, NF110, NF110b, NF90, NF90a, NF90b	
IMMP1L	IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae)	IMP1, IMP1-LIKE	
IMP3	IMP3, U3 small nucleolar ribonucleoprotein	BRMS2, C15orf12, MRPS4	
IMPA1	Inositol(myo)-1(or 4)-monophosphatase 1	IMP, IMPA	
IMPAD1	Inositol monophosphatase domain containing	GPAPP, IMP 3, IMP-3, IMPA3	
IMPG1	Interphotoreceptor matrix proteoglycan 1	RP11-758J17.1, GP147, IPM150, SPACR	
IMPG2	Interphotoreceptor matrix proteoglycan 2	IPM200, RP56, SPACRCAN	

INADL	InaD-like (Drosophila)	RP4-537K17.1, Cipp, InaD-like, PATJ, hINADL	
INCENP	Inner centromere protein antigens 135/155 kDa		
ING1	Inhibitor of growth family, member 1	RP11-8D7.1, p24ING1c, p33, p33ING1, p33ING1b, p47, p47ING1a	
ING3	Inhibitor of growth family, member 3	HSPC301, Eaf4, ING2, MEAF4, p47ING3	
ING5	Inhibitor of growth family, member 5	p28ING5	
INHBC	Inhibin, beta C	IHBC	
INHBE	Inhibin, beta E		
INMT	Indolethylamine N-methyltransferase	TEMT	
INO80	INO80 complex subunit	INO80A, INOC1, hINO80	
INO80C	INO80 complex subunit C	C18orf37, IES6, hIes6	
INO80D	INO80 complex subunit D		
INPP4A	Inositol polyphosphate-4-phosphatase, type I,	INPP4, TVAS1	
INPP4B	Inositol polyphosphate-4-phosphatase, type II, 105 kDa		
INPP5A	Inositol polyphosphate-5-phosphatase, 40 kDa	RP11-288G11.1, 5PTASE	
INPP5E	Inositol polyphosphate-5-phosphatase, 72 kDa	CORS1, CPD4, JBTS1, MORMS, PPI5PIV	
INPP5F	Inositol polyphosphate-5-phosphatase F	MSTP007, MSTPO47, SAC2, hSAC2	
INSIG1	Insulin induced gene 1	CL-6, CL6	
INSIG2	Insulin induced gene 2		
INSM1	Insulinoma-associated 1	IA-1, IA1	
INSR	Insulin receptor	CD220, HHF5	
INTS2	Integrator complex subunit 2	INT2, KIAA1287	
INTS3	Integrator complex subunit 3	RP11-216N14.2, C1orf193, C1orf60, INT3, SOSS-A, SOSSA	
INTS4L1	Integrator complex subunit 4-like 1		
INTS4L2	Integrator complex subunit 4-like 2		
INTS6	Integrator complex subunit 6	RP11-24B19.2, DBI-1, DDX26, DDX26A, DICE1, HDB, INT6, Notchl2	
INTS7	Integrator complex subunit 7	C1orf73, INT7	
INTS8	Integrator complex subunit 8	C8orf52, INT8	
INTU	Inturned planar cell polarity protein	INT, PDZD6, PDZK6	
INVS	Inversin	RP11-208F1.1, INV, NPH2, NPHP2	
IP6K2	Inositol hexakisphosphate kinase 2	TCCCIA00113, IHPK2, PIUS	
IPCEF1	Interaction protein for cytohesin exchange factors 1	RP3-402L9.2, PIP3-E	
IPO5	Importin 5	RP11-72J7.1, IMB3, KPNB3, Pse1, RANBP5, imp5	
IPO7	Importin 7	Imp7, RANBP7	

IPO8	Importin 8	RANBP8	
IPPK	Inositol 1,3,4,5,6-pentakisphosphate 2-kinase	C9orf12, INSP5K2, IP5K, IPK1, bA476B13.1	
IPW	Imprinted in Prader-Willi syndrome (non-protein coding)	NCRNA00002	
IQCE	IQ motif containing E	1700028P05Rik	
IQCH	IQ motif containing H	NYDSP5	
IQCK	IQ motif containing K		
IQGAP1	IQ motif containing GTPase activating protein 1	HUMORFA01, SAR1, p195	
IQGAP2	IQ motif containing GTPase activating protein 2		
IQSEC2	IQ motif and Sec7 domain 2	RP11-258C19.1, BRAG1, MRX1	
IQSEC3	IQ motif and Sec7 domain 3		
IQUB	IQ motif and ubiquitin domain containing		
IRAK1BP1	Interleukin-1 receptor-associated kinase 1 binding protein 1	AIP70, SIMPL	
IRAK3	Interleukin-1 receptor-associated kinase 3	ASRT5, IRAKM	
IRAK4	Interleukin-1 receptor-associated kinase 4	RP11-210N13.4, IPD1, IRAK-4, NY-REN-64, REN64	
IREB2	Iron-responsive element binding protein 2	ACO3, IRP2, IRP2AD	
IRF4	Interferon regulatory factor 4	LSIRF, MUM1, NF-EM5	√
IRF5	Interferon regulatory factor 5		
IRF8	Interferon regulatory factor 8	H-ICSBP, ICSBP, ICSBP1, IMD32A, IMD32B, IRF-8	
IRGQ	Immunity-related GTPase family, Q	FKSG271, IRGQ	
IRS1	Insulin receptor substrate 1	HIRS-1	
IRS2	Insulin receptor substrate 2	Irs-2	
IRX1	Iroquois homeobox 1	IRX-5, IRXA1	
ISCA1	Iron-sulfur cluster assembly 1	GK004, HBLD2, ISA1, hIscA	
ISCA1P1	Iron-sulfur cluster assembly 1 pseudogene 1		
ISCA2	Iron-sulfur cluster assembly 2	HBLD1, ISA2, c14_5557	
ISOC1	Isochorismatase domain containing 1	CGI-111	
ISPD	Isoprenoid synthase domain containing	RP11-196O16.1, MDDGA7, Nip, hCG_1745121	
ISX	Intestine-specific homeobox	Pix-1, RAXLX	
ITCH	Itchy E3 ubiquitin protein ligase	AIF4, AIP4, NAPP1, dJ468O1.1	
ITFG2	Integrin alpha FG-GAP repeat containing 2	MDS028	
ITFG3	Integrin alpha FG-GAP repeat containing 3	C16orf9, gs19	
ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	BR, CD49B, GPIa, HPA-5, VLA-2, VLAA2	
ITGA2B	Integrin, alpha 2b (platelet glycoprotein IIb of	BDPLT10, BDPLT2, CD41, CD41B, GP2B, GPIIb, GT, GTA, HPA3, PPP1R92	

ITGA3	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	CD49C, GAP-B3, GAPB3, ILNEB, M3K16, VCA-2, VLA3A, VLA3a	
ITGA4	Integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	CD49D, IA4	
ITGA6	Integrin, alpha 6	CD49fB, VLA-6, ITGA6	
ITGAD	Integrin, alpha D	ADB2, CD11D	
ITGAL	Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	CD11A, LFA-1, LFA1A	
ITGAX	Integrin, alpha X (complement component 3 receptor 4 subunit)	CD11C, SLEB6	
ITGB1	Integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	RP11-479G22.2, CD29, FNRB, GPIIA, MDF2, MSK12, VLA-BETA, VLAB	
ITGB1BP1	Integrin beta 1 binding protein 1	ICAP-1A, ICAP-1B, ICAP-1alpha, ICAP1, ICAP1A, ICAP1B	
ITGB3	Integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	BDPLT16, BDPLT2, CD61, GP3A, GPIIIa, GT	
ITGB8	Integrin, beta 8		
ITIH1	Inter-alpha-trypsin inhibitor heavy chain 1	H1P, IATIH, IGHEP1, ITI-HC1, ITIH, SHAP	
ITIH5	Inter-alpha-trypsin inhibitor heavy chain family, member 5	PP14776, ITI-HC5	
ITLN1	Intelectin 1 (galactofuranose binding)	UNQ640/PRO1270, HL-1, HL1, INTL, ITLN, LFK, hIntL, omentin	
ITM2C	Integral membrane protein 2C	hucep-14, BRI3, BRICD2C, E25, E25C, ITM3	
ITPKB	Inositol-trisphosphate 3-kinase B	IP3-3KB, IP3K, IP3K-B, IP3KB, PIG37	
ITPR2	Inositol 1,4,5-trisphosphate receptor, type 2	CFAP48, IP3R2	
ITPRIP	Inositol 1,4,5-trisphosphate receptor	RP11-127L20.4, DANGER, KIAA1754, bA127L20, bA127L20.2	
ITPRIPL2	Inositol 1,4,5-trisphosphate receptor interacting protein-like 2	C130081G24, E030018N11Rik	
ITSN1	Intersectin 1 (SH3 domain protein)	ITSN, SH3D1A, SH3P17	
ITSN2	Intersectin 2	PRO2015, SH3D1B, SH3P18, SWA, SWAP	
IVD	Isovaleryl-CoA dehydrogenase	ACAD2	
IWS1	IWS1 homolog (S. cerevisiae)		
IYD	Iodotyrosine deiodinase	C6orf71, DEHAL1, TDH4, dJ422F24.1	
JAK2	Janus kinase 2	JTK10, THCYT3	√
JAKMIP3	Janus kinase and microtubule interacting protein 3	RP11-140A10.6, C100H14, C100H39, JAMIP3, NEGC2, bA140A10.5	
JAM3	Junctional adhesion molecule 3	UNQ859/PRO1868, JAM-2, JAM-3, JAM-C, JAMC	
JARID2	Jumonji, AT rich interactive domain 2	JMJ	
JAZF1	JAZF zinc finger 1	tcag7.981, TIP27, ZNF802	√
JDP2	Jun dimerization protein 2	JUNDM2	
JHDM1D			
JKAMP	JNK1/MAPK8-associated membrane protein	CDA06, C14orf100, HSPC213, HSPC327, JAMP	
JMJD1C	Jumonji domain containing 1C	RP11-10C13.2, TRIP8	
JMJD5			

JMJD6	Jumonji domain containing 6	PSR, PTDSR, PTDSR1	
JMJD7	Jumonji domain containing 7	hCG_37726	
JMY	Junction mediating and regulatory protein, p53 cofactor	WHDC1L3	
JPH1	Junctophilin 1	JP-1, JP1	
JPH2	Junctophilin 2	CMH17, JP-2, JP2	
JPH4	Junctophilin 4	JP4, JPHL1	
JRK	Jrk homolog (mouse)	JH8, jerky	
JRKL	JRK-like	HHMJG	
JUN	Jun proto-oncogene	AP-1, AP1, c-Jun	√
KAL1	Kallmann syndrome 1 sequence	ADMLX, HH1, HHA, KAL, KALIG-1, KMS, WFDC19	
KALRN	kalirin, RhoGEF kinase	RP11-71H17.7, AKHGEF24, CHD3, CHD35, DUET, DUO, HAPIP, TRAD	
KANK1	KN motif and ankyrin repeat domains 1	RP11-130C19.4, ANKRD15, CPSQ2, KANK	
KANK2	KN motif and ankyrin repeat domains 2	ANKRD25, MXRA3, SIP	
KAT2A	K(lysine) acetyltransferase 2A	GCN5, GCN5L2, PCAF-b, hGCN5	
KAT2B	K(lysine) acetyltransferase 2B	CAF, P/CAF, PCAF	
KATNAL1	Katanin p60 subunit A-like 1	RP11-374F3.1	
KAZ	Kazrin, periplakin interacting protein	RP1-21O18.1, KAZ	
KAZALD1	Kazal-type serine peptidase inhibitor domain 1	RP11-106L7.10-001, BONO1, FKSG28, FKSG40, IGFBP-rP10	
KBTBD11	Kelch repeat and BTB (POZ) domain containing 11	KLHDC7C	
KBTBD12	Kelch repeat and BTB (POZ) domain containing 12	4833415F11Rik, 4933428M03Rik, Klhdc6	
KBTBD2	Kelch repeat and BTB (POZ) domain containing 2	CGI-73, BKLHD1	
KBTBD6	Kelch repeat and BTB (POZ) domain containing 6		
KBTBD7	Kelch repeat and BTB (POZ) domain containing 7		
KBTBD8	Kelch repeat and BTB (POZ) domain containing 8	AU040152, SSEC-51, SSEC51, Takrp, mKIAA1842	
KCMF1	Potassium channel modulatory factor 1	DEBT91, FIGC, PCMF, ZZZ1	
KCNA1	Potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia	AEMK, EA1, HBK1, HUK1, KV1.1, MBK1, MK1, RBK1	
KCNA3	Potassium voltage-gated channel, shaker-related subfamily, member 3	RP11-284N8.3, HGK5, HLK3, HPCN3, HUKIII, KV1.3, MK3, PCN3	
KCNA6	Potassium voltage-gated channel, shaker-related subfamily, member 6	HBK2, KV1.6, PPP1R96	
KCNA7	Potassium voltage-gated channel, shaker-related subfamily, member 7	HAK6, KV1.7	
KCNAB1	Potassium voltage-gated channel, shaker-related subfamily, beta member 1	AKR6A3, KCNA1B, Kv-BETA-1, Kvb1.3, mKvBeta3, hKvb3	
KCNAB2	Potassium voltage-gated channel, shaker-related subfamily, beta member 2	RP23-421E12.12-005, F5, I2rf5, Kcnb3, kv-beta-2	
KCNB1	Potassium voltage-gated channel, Shab-related subfamily, member 1	DRK1, KV2.1, h-DRK1	
KCNC2	Potassium voltage-gated channel, Shaw-related subfamily, member 2	KV3.2	

KCNC4	Potassium voltage-gated channel, Shaw-related subfamily, member 4	C1orf30, HKSHIIIC, KSHIIIC, KV3.4	
KCND2	Potassium voltage-gated channel, Shal-related subfamily, member 2	KV4.2, RK5	
KCNE1L	KCNE1-like	RP1-136J15.2, KCNE5	
KCNE2	Potassium voltage-gated channel, Isk-related family, member 2	ATFB4, LQT5, LQT6, MIRP1	
KCNE3	Potassium voltage-gated channel, Isk-related family, member 3	HOKPP, HYPP, MiRP2	
KCNE4	Potassium voltage-gated channel, Isk-related family, member 4	MIRP3	
KCNG1	Potassium voltage-gated channel, subfamily G, member 1	RP5-955M13.1, K13, KCNG, KV6.1, kH2	
KCNG3	Potassium voltage-gated channel, subfamily G, member 3	KV10.1, KV6.3	
KCNH1	Potassium voltage-gated channel, subfamily H (eag-related), member 1	EAG, EAG1, Kv10.1, h-eag	
KCNH8	Potassium voltage-gated channel, subfamily H (eag-related), member 8	ELK, ELK1, Kv12.1, elk3	
KCNIP2	Kv channel interacting protein 2	KCHIP2	
KCNIP3	Kv channel interacting protein 3, calsenilin	CSEN, DREAM, KCHIP3	
KCNJ1	Potassium inwardly-rectifying channel, subfamily J, member 1	KIR1.1, ROMK, ROMK1	
KCNJ10	Potassium inwardly-rectifying channel, subfamily J, member 10	BIRK-10, KCNJ13-PEN, KIR1.2, KIR4.1, SESAME	
KCNJ12	Potassium inwardly-rectifying channel, subfamily J, member 12	IRK-2, IRK2, KCNJN1, Kir2.2, Kir2.2v, hIRK, hIRK1, hkir2.2x, kcnj12x	
KCNJ13	Potassium inwardly-rectifying channel, subfamily J, member 13	KIR1.4, KIR7.1, LCA16, SVD	
KCNJ14	Potassium inwardly-rectifying channel, subfamily J, member 14	IRK4, KIR2.4	
KCNJ15	Potassium inwardly-rectifying channel, subfamily J, member 15	IRKK, KIR1.3, KIR4.2	
KCNJ2	Potassium inwardly-rectifying channel, subfamily J, member 2	ATFB9, HHBIRK1, HHIRK1, IRK1, KIR2.1, LQT7, SQT3	
KCNJ3	Potassium inwardly-rectifying channel, subfamily J, member 3	GIRK1, KGA, KIR3.1	
KCNJ5	Potassium inwardly-rectifying channel, subfamily J, member 5	CIR, GIRK4, KATP1, KIR3.4, LQT13	√
KCNJ8	Potassium inwardly-rectifying channel, subfamily J, member 8	KIR6.1, uKATP-1	
KCNK1	Potassium channel, subfamily K, member 1	RP4-550F15.1, DPK, HOHO, K2P1, K2p1.1, KCNO1, TWIK-1, TWIK1	
KCNK10	Potassium channel, subfamily K, member 10	K2p10.1, PPP1R97, TREK-2, TREK2	
KCNK13	Potassium channel, subfamily K, member 13	K2p13.1, THIK-1, THIK1	
KCNK2	Potassium channel, subfamily K, member 2	K2p2.1, TPKC1, TREK, TREK-1, TREK1, hTREK-1c, hTREK-1e	
KCNK5	Potassium channel, subfamily K, member 5	K2p5.1, TASK-2, TASK2	
KCNK6	Potassium channel, subfamily K, member 6	K2p6.1, KCNK8, TOSS, TWIK-2, TWIK2	
KCNK9	Potassium channel, subfamily K, member 9	K2p9.1, KT3.2, TASK-3, TASK3	
KCNMA1	Potassium large conductance calcium-activated channel, subfamily M, alpha	RP11-443A13.1, BKTM, KCa1.1, MaxiK, SAKCA, SLO, SLO-ALPHA, SLO1, bA205K10.1, mSLO1	
KCNMB1	Potassium large conductance calcium-activated channel, subfamily M, beta	BKbeta1, K(VCA)beta, SLO-BETA, hbeta1, hslo-beta, k(VCA)beta-1, slo-beta-1	
KCNMB2	Potassium large conductance calcium-activated channel, subfamily M, beta	hCG_1646471	
KCNMB3	Potassium large conductance calcium-activated channel, subfamily M, beta	BKBETA3, HBETA3, K(VCA)BETA-3, KCNMB2, KCNMBL, SLO-BETA-3, SLOBETA3	

KCNN1	Potassium intermediate/small conductance	KCa2.1, SK1, SKCA1, hSK1	
KCNQ5	Potassium voltage-gated channel, KQT-like	RP11-257K9.5, Kv7.5	
KCNS2	Potassium voltage-gated channel, delayed-	KV9.2	
KCTD1	Potassium channel tetramerization domain	hCG_38480, C18orf5, SENS	
KCTD10	Potassium channel tetramerization domain	MSTP028, BTBD28, ULRO61, hBACURD3	
KCTD12	Potassium channel tetramerization domain	C13orf2, PFET1, PFETIN	
KCTD14	Potassium channel tetramerization domain		
KCTD16	Potassium channel tetramerization domain		
KCTD2	Potassium channel tetramerization domain		
KCTD20	Potassium channel tetramerization domain	RP1-108K11.2, C6orf69, dJ108K11.3	
KCTD21	Potassium channel tetramerization domain	KCASH2	
KCTD3	Potassium channel tetramerization domain	RP11-5F19.1, NY-REN-45	
KCTD7	Potassium channel tetramerization domain	CLN14, EPM3	
KCTD9	Potassium channel tetramerization domain	BTBD27	
KDELC2	KDEL (Lys-Asp-Glu-Leu) containing 2	UNQ1904/PRO4350	
KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic	tcag7.840, ELP-1, ERD2.2	
KDELR3	KDEL (Lys-Asp-Glu-Leu) endoplasmic	RP3-434P1.3, ERD2L3	
KDM1B	Lysine (K)-specific demethylase 1B	RP1-296J15.1, AOF1, C6orf193, LSD2, bA204B7.3,	
KDM2A	Lysine (K)-specific demethylase 2A	CXXC8, FBL11, FBL7, FBXL11, JHDM1A, LILINA	
KDM2B	Lysine (K)-specific demethylase 2B	CXXC2, FBXL10, Fbl10, JHDM1B, PCCX2	
KDM4B	Lysine (K)-specific demethylase 4B	JMJD2B, TDRD14B	
KDM4C	Lysine (K)-specific demethylase 4C	RP11-169L18.1, GASC1, JHDM3C, JMJD2C,	
KDM4D	Lysine (K)-specific demethylase 4D	JMJD2D	
KDM5A	Lysine (K)-specific demethylase 5A	RBBP-2, RBBP2, RBP2	√
KDM5B	Lysine (K)-specific demethylase 5B	CT31, JARID1B, PLU-1, PLU1, PPP1R98, PUT1,	
KDM5C	Lysine (K)-specific demethylase 5C	RP11-256C19.2, DXS1272E, JARID1C, MRX13, MRX3,	√
KDM6A	Lysine (K)-specific demethylase 6A	RP13-886N14.3, KABUK2, UTX, bA386N14.2	√
KDR	Kinase insert domain receptor (a type III	CD309, FLK1, VEGFR, VEGFR2	√
KDSR	3-ketodihydrosphingosine reductase	DHSR, FVT1, SDR35C1	
KERA	Keratocan	CNA2, KTN, SLRR2B	
KGFLP1	Fibroblast growth factor 7 pseudogene		
KHDC1	KH homology domain containing 1	RP11-257K9.4, C6orf148, NDG1, bA257K9.4	
KHDRBS1	KH domain containing, RNA binding, signal	Sam68, p62, p68	

KHDRBS3	KH domain containing, RNA binding, signal transduction associated 3	Etle, SALP, SLM-2, SLM2, T-STAR, TSTAR, etoile	
KHSRP	KH-type splicing regulatory protein	FBP2, FUBP2, KSRP	
KIAA0040	KIAA0040		
KIAA0090			
KIAA0101	KIAA0101	L5, NS5ATP9, OEATC, OEATC-1, OEATC1, PAF, PAF15, p15(PAF), p	
KIAA0114			
KIAA0125	KIAA0125	HSPC053, C14orf110, FAM30A	
KIAA0141	KIAA0141	DELE	
KIAA0146			
KIAA0182			
KIAA0195	**KIAA0195**	TMEM94	
KIAA0196	**KIAA0196**	RTSC, SPG8	
KIAA0226	KIAA0226	hCG_22771, RUBICON, SCAR15	
KIAA0232	KIAA0232		
KIAA0240			
KIAA0247	KIAA0247		
KIAA0284	KIAA0284 protein		
KIAA0319L	KIAA0319-like	PP791	
KIAA0408	KIAA0408	RP3-403A15.2	
KIAA0427			
KIAA0430	KIAA0430	LKAP, MARF1, PPP1R34	
KIAA0467			
KIAA0494			
KIAA0513	KIAA0513		
KIAA0528			
KIAA0556	KIAA0556		
KIAA0664			
KIAA0753	KIAA0753		
KIAA0754	KIAA0754		
KIAA0802			
KIAA0892			
KIAA0895	KIAA0895		
KIAA0907	KIAA0907	RP11-336K24.1, BLOM7	

KIAA0913			
KIAA0922	**KIAA0922**	TMEM131L	
KIAA1012			
KIAA1024	KIAA1024		
KIAA1033	KIAA1033	MRT43, SWIP	
KIAA1045	KIAA1045	RP11-392A14.4	
KIAA1107	KIAA1107		
KIAA1109	KIAA1109	FSA, Tweek	
KIAA1147	KIAA1147	RP5-894A10.2, LCHN, PRO2561	
KIAA1191	KIAA1191	p60MONOX	
KIAA1199			
KIAA1210	KIAA1210	RP13-347D8.3	
KIAA1211	KIAA1211		
KIAA1217	KIAA1217	RP11-324E23.1, SKT	
KIAA1239			
KIAA1244	KIAA1244	RP1-171N11.1, A7322, ARFGEF3, BIG3, C6orf92, PPP1R33, dJ171N11	
KIAA1310			
KIAA1324	KIAA1324	RP11-352P4.1, EIG121	
KIAA1328	KIAA1328		
KIAA1377	KIAA1377		
KIAA1383			
KIAA1407	KIAA1407		
KIAA1430			
KIAA1467	KIAA1467		
KIAA1486			
KIAA1522	KIAA1522		
KIAA1529			
KIAA1530			
KIAA1549	KIAA1549		√
KIAA1598	KIAA1598		
KIAA1609			
KIAA1632			
KIAA1644	KIAA1644	LL22NC03-75B3.6	

KIAA1671	KIAA1671	CTA-221G9.4	
KIAA1704			
KIAA1712			
KIAA1715	KIAA1715	LNP, LNP1, Ul, ulnaless	
KIAA1737			
KIAA1751			
KIAA1804	Mixed lineage kinase 4	RP5-862P8.2MLK4, dJ862P8.3	
KIAA1826	Myb/SANT-like DNA-binding domain containing 4 with coiled coils	DC25, KIAA1826	
KIAA1841	KIAA1841		
KIAA1908	PSMG3 antisense RNA 1 (head to head)		
KIAA1919			
KIAA1967			
KIAA2018	KIAA2018	hCG_1642841	
KIAA2022	KIAA2022	RP11-130N24.1, MRX98, XPN	
KIF13B	Kinesin family member 13B	GAKIN	
KIF16B	Kinesin family member 16B	RP5-971B4.1, C20orf23, KISC20ORF, SNX23	
KIF18A	Kinesin family member 18A	OK/SW-cl.108, MS-KIF18A, PPP1R99	
KIF18B			
KIF1A	Kinesin family member 1A	ATSV, C2orf20, HSN2C, MRD9, SPG30, UNC104	
KIF1B	Kinesin family member 18B		
KIF20B	Kinesin family member 20B	CT90, KRMP1, MPHOSPH1, MPP-1, MPP1	
KIF21A	Kinesin family member 21A	CFEOM1, FEOM1, FEOM3A	
KIF21B			
KIF22	Kinesin family member 22	A-328A5.2, KID, KNSL4, OBP, OBP-1, OBP-2, SEMDJL2	
KIF26B	Kinesin family member 26B	hCG_21329	
KIF2C	Kinesin family member 2C	RP11-269F19.1, CT139, KNSL6, MCAK	
KIF3A	Kinesin family member 3A	FLA10, KLP-20	
KIF3B	Kinesin family member 3B	FLA8, HH0048, KLP-11	
KIF5A	Kinesin family member 5A	D12S1889, MY050, NKHC, SPG10	
KIF5C	Kinesin family member 5C	CDCBM2, KINN, NKHC, NKHC-2, NKHC2	
KIF6	Kinesin family member 6	KIF-137F1.4, C66H102, dJ1043E5.1, dJ137F1.4, dJ188D2.1	
KILLIN	Killin, p53-regulated DNA replication inhibitor	CWS4, KILLIN	
KIN	Kin17 DNA and RNA binding protein	BTCD17, Rts2, KIN	

KIR2DL1	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1	XXbac-BCX195L8.1, CD158A, KIR-K64, KIR221, NKAT-NKAT-1, NKAT1, p58.1	
KIR2DL2	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2	CD158B1, CD158b, NKAT-6, NKAT6, p58.2, CD158B2, CD158b, GL183, KIR-023GB, KIR-K7b, KIR2DS5, KIRCL22, NKAT5,	
KIR2DL3	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3	XXbac-BrG250H20.3, CD158i, KIRCL3, KIR2DS1, KIR412, KKA3, NKAT-8, NKAT8	
KIR2DS4	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4		
KIR3DS1	Killer cell immunoglobulin-like receptor, three domains, short cytoplasmic tail, 1	CD158E2, KIR-123FM, KIR-G1, NKAT10	
KITLG	KIT ligand	FPH2, KL-1, Kitl, MGF, SCF, SF, SHEP7	
KL	Klotho		
KLC1	Kinesin light chain 1	RP11-73M18.7, KLC, KNS2, KNS2A	
KLC4	Kinesin light chain 4	KNSL8, bA387M24.3	
KLF11	Kruppel-like factor 11	FKLF, FKLF1, MODY7, TIEG2, Tieg3	
KLF12	Kruppel-like factor 12	HSPC122, AP-2rep, AP2REP	
KLF13	Kruppel-like factor 13	BTEB3, FKLF2, NSLP1, RFLAT-1, RFLAT1	
KLF15	Kruppel-like factor 15	KKLF	
KLF17	Kruppel-like factor 17	RP4-675G8.1, ZNF393, Zfp393	
KLF3	Kruppel-like factor 3	BKLF	
KLF6	Kruppel-like factor 6	RP11-184A2.1, BCD1, CBA1, COPEB, CPBP, GBP, PAC1, ST12, ZF9	
KLF8	Kruppel-like factor 8	RP13-1021K9.1, BKLF3, ZNF741	
KLF9	Kruppel-like factor 9	BTEB, BTEB1	
KLHDC10	Kelch domain containing 10	slim	
KLHDC3	Kelch domain containing 3	RP1-20C7.3, PEAS, dJ20C7.3	
KLHDC5	Kelch-like family member 42	Ctb9, KLHDC5	
KLHDC7A	Kelch domain containing 7A	RP11-422P22.2	
KLHDC8A	Kelch domain containing 8A		
KLHDC8B	Kelch domain containing 8B	FP17659	
KLHL12	Kelch-like family member 12	C3IP1, DKIR, hDKIR	
KLHL13	Kelch-like family member 13	BKLHD2	
KLHL14	Kelch-like family member 14		
KLHL15	Kelch-like family member 15	HEL-S-305	
KLHL2	Kelch-like family member 2	ABP-KELCH, MAV, MAYVEN	
KLHL24	Kelch-like family member 24	DRE1, KRIP6	
KLHL28	Kelch-like family member 28	BTBD5	
KLHL3	Kelch-like family member 3	PHA2D	
KLHL30	Kelch-like family member 30	Chromosome 2, NC_000002.12 (238138722..238152906)	

KLHL31	Kelch-like family member 31	BKLHD6, KBTBD1, KLHL, bA345L23.2	
KLHL32	Kelch-like family member 32	RP1-59B17.1, BKLHD5, KIAA1900, UG0030H05, dJ21E7.1	
KLHL35	Kelch-like family member 35		
KLHL4	Kelch-like family member 4	DKELCHL, KHL4	
KLHL5	Kelch-like family member 5		
KLHL6	Kelch-like family member 6		
KLHL7	Kelch-like family member 7	KLHL6, SBBI26	
KLK13	Kallikrein-related peptidase 13	KLK-L4, KLKL4	
KLK2	Kallikrein-related peptidase 2	KLK2A2, hGK-1, hK2	√
KLK5	Kallikrein-related peptidase 5	UNQ570/PRO1132, KLK-L2, KLKL2, SCTE	
KLK7	Kallikrein-related peptidase 7	PRSS6, SCCE, hK7	
KLRF1	Killer cell lectin-like receptor subfamily F, member 1	CLEC5C, NKp80	
KMO	Kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	RP1-317G22.1, dJ317G22.1	
KPNA1	Karyopherin alpha 1 (importin alpha 5)	IPOA5, NPI-1, RCH2, SRP1	
KPNA3	Karyopherin alpha 3 (importin alpha 4)	RP11-452M24.3, IPOA4, SRP1, SRP1gamma, SRP4, hSRP1	
KPNA4	Karyopherin alpha 4 (importin alpha 3)	IPOA3, QIP1, SRP3	
KPNA6	Karyopherin alpha 6 (importin alpha 7)	RP4-622L5.1, IPOA7, KPNA7	
KPNB1	Karyopherin (importin) beta 1	IMB1, IPO1, IPOB, Impnb, NTF97	
KPRP	Keratinocyte proline-rich protein	C1orf45	
KRAS	Kirsten rat sarcoma viral oncogene homolog	C-K-RAS, CFC2, K-RAS2A, K-RAS2B, K-RAS4A, K-RAS4B, KI-RAS1, KRAS2, NS, NS2, RASK2, KRAS	√
KREMEN1	Kringle containing transmembrane protein 1	CTA-57G9.2, KREMEN, KRM1	
KRIT1	KRIT1, ankyrin repeat containing	CAM, CCM1	
KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)	HRB2, RIP-1	
KRT12	Keratin 12	K12	
KRT2	Keratin 2	CK-2e, K2eA, KRT2E, KRTE, KRT2	
KRT37	Keratin 37	HA7, K37, KRTHA7	
KRT5	Keratin 5	CK5, DDD, DDD1, EBS2, K5A, KRT5	
KRT6B	Keratin 6B	CK-6B, CK6B, K6B, KRTL1, PC2, PC4	
KRT75	Keratin 75	K6HF, KB18, PFB	
KRT77	Keratin 77	K1B, KRT1B	
KRT82	Keratin 82	HB2, Hb-2, KRTHB2	
KRT86	Keratin 86	HB6, Hb1, KRTHB1, KRTHB6, MNX, hHb6	
KRTAP11-1	Keratin associated protein 11-1	HACL-1, HACL1, KAP11.1	

KRTAP12-2	Keratin associated protein 12-2	KAP12.2, KRTAP12.2	
KRTAP13-2	Keratin associated protein 13-2	KAP13-2	
KRTAP2-4	Keratin associated protein 2-4	hCG_1645697, KAP2.1B, KAP2.4, KRTAP2.4	
KRTAP26-1	Keratin associated protein 26-1		
KRTAP4-5	Keratin associated protein 4-5	KAP4.5, KRTAP4.5	
KRTAP5-11	Keratin associated protein 5-11	KRTAP5-5, KRTAP5-6, KRTAP5.11	
KRTAP5-2	Keratin associated protein 5-2	KRTAP5-8, KRTAP5.2	
KRTCAP2	Keratinocyte associated protein 2	KCP2	
KSR1	Kinase suppressor of ras 1	KSR, RSU2	
KSR2	Kinase suppressor of ras 2		
KTELC1	Protein O-glucosyltransferase 1	MDS010, C56H9, CLP46, KDELCL1, KTELC1, MDSRP, Rumi, hCLP46	
KY	Kyphoscoliosis peptidase		
L1CAM	L1 cell adhesion molecule	CAML1, CD171, HSA5, HSA51, MASA, MIC5, N-CAM-L1, N-CAML1, NCAM-L1, S10, SPG1	
L2HGDH	L-2-hydroxyglutarate dehydrogenase	C14orf160	
L3MBTL	L(3)mbt-like 1 (Drosophila)	RP1-156B7.1, H-L(3)MBT, L3MBTL, ZC2HC3, dJ138B7.2	
L3MBTL3	L(3)mbt-like 3 (Drosophila)	RP11-73O6.1, MBT-1, MBT1	
L3MBTL4	L(3)mbt-like 4 (Drosophila)	HsT1031	
LACE1	Lactation elevated	RP3-479O19.1, AFG1	
LACTB	Lactamase, beta	UNQ843/PRO1781, G24, MRPL56	
LAD1	Ladinin 1	LadA	
LAMA3	Laminin, alpha 3	BM600, E170, LAMNA, LOCS, lama3a	
LAMC1	Laminin, gamma 1	RP11-181K3.1, LAMB2	
LAMC2	Laminin, gamma 2	B2T, BM600, CSF, EBR2, EBR2A, LAMB2T, LAMNB2	
LAMP2	Lysosomal-associated membrane protein 2	CD107b, LAMP-2, LAMPB, LGP110	
LANCL2	LanC lantibiotic synthetase component C-like 2 (bacterial)	tcag7.697, GPR69B, TASP	
LANCL3	LanC lantibiotic synthetase component C-like 3		
LAPTM4B	Lysosomal protein transmembrane 4 beta	PSEC0001, LAPTM4beta, LC27	
LAPTM5	Lysosomal protein transmembrane 5	RP5-1166H10.3, CLAST6	
LARP1B	La ribonucleoprotein domain family, member 1B	LARP2	
LARP4	La ribonucleoprotein domain family, member 4	PP13296	
LARP4B	La ribonucleoprotein domain family, member 4B	P11-164C1.3, KIAA0217, LARP5	
LAS1L	LAS1-like (S. cerevisiae)	RP3-475B7.2, Las1-like, dJ475B7.2	
LASP1	LIM and SH3 protein 1	Lasp-1, MLN50	√

LASS3			
LASS6			
LAT2	Linker for activation of T cells family, memb	HSPC046, LAB, NTAL, WBSCR15, WBSCR5, WSCR5	
LATS2	Large tumor suppressor kinase 2	KPM	
LAX1	Lymphocyte transmembrane adaptor 1	LAX	
LBR	Lamin B receptor	PRO0650, DHCR14B, LMN2R, PHA, TDRD18	
LCE2B	Late cornified envelope 2B	LEP10, SPRL1B, XP5	
LCLAT1	Lysocardiolipin acyltransferase 1	UNQ1849/PRO3579, 1AGPAT8, AGPAT8, ALCAT1, HSPC1849, LYCAT, UNQ1849	
LCMT1	Leucine carboxyl methyltransferase 1	CGI-68, LCMT, PPMT1	
LCOR	Ligand dependent nuclear receptor	MLR2	
LCORL	Ligand dependent nuclear receptor corepressor-like	MLR1	
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)	RP11-159H14.1, CP64, HEL-S-37, L-PLASTIN, LC64P, LPL, PLS2	√
LCTL	Lactase-like	UNQ3022/PRO9820, KLG, KLPH	
LDB1	LIM domain binding 1	CLIM2, NLI	
LDB3	LIM domain binding 3	CMD1C, CMPD3, CYPHER2, LDB3Z4, LVNC3, MEM4, ORACLE, PDLIM6, ZASP, LDB3	
LDHAL6A	Lactate dehydrogenase A-like 6A	LDH6A	
LDHC	Lactate dehydrogenase C	CT32, LDH3, LDHX	
LDLR	Low density lipoprotein receptor	FH, FHC, LDLCQ2	
LDLRAP1	Low density lipoprotein receptor adaptor protein 1	RP11-70P17.2, ARH, ARH1, ARH2, FHCB1, FHCB2	
LEAP2	Liver expressed antimicrobial peptide 2	LEAP-2	
LEFTY2	Left-right determination factor 2	PSEC0024, EBAF, LEFTA, LEFTYA, TGFB4	
LEKR1	Leucine, glutamate and lysine rich 1		
LEMD3	LEM domain containing 3	MAN1	
LEP	Leptin	LEPD, OB, OBS	
LEPR	Leptin receptor	CD295, LEP-RD, OB-R, OBR, LEPR	
LEPRE1	Leucine proline-enriched proteoglycan (leprecan) 1	P3H1	
LEPREL1	Leprecan-like 1	MCVD, MLAT4, P3H2	
LEPROTL1	Leptin receptor overlapping transcript-like 1	My047, HSPC112, Vps55, my047	
LGALS12	Lectin, galactoside-binding, soluble, 12	GAL12, GRIP1	
LGI1	Leucine-rich, glioma inactivated 1	UNQ775/PRO1565, ADLTE, ADPEAF, ADPEAF, EPITEMPIN, EPT, ETL1, IB1000	
LGI2	Leucine-rich repeat LGI family, member 2	LGIL2	
LGR5	Leucine-rich repeat containing G protein-coup	FEX, GPR49, GPR67, GRP49, HG38	
LHCGR	Luteinizing hormone/choriogonadotropin receptor	HHG, LCGR, LGR2, LH/CG-R, LH/CGR, LHR, LHRHR, LSH-R, ULG5	

LHFPL3	Lipoma HMGIC fusion partner-like 3	LHFPL4	
LHX3	LIM homeobox 3	CPHD3, LIM3, M2-LHX3	
LHX6	LIM homeobox 6	RP23-169L4.3.1, Lhx6	
LHX8	LIM homeobox 8	LHX7	
LHX9	LIM homeobox 9	RP11-255O17.2	
LIF	Leukemia inhibitory factor	CDF, DIA, HILDA, MLPLI	
LIFR	Leukemia inhibitory factor receptor alpha	CD118, LIF-R, SJS2, STWS, SWS	√
LIG4	Ligase IV, DNA, ATP-dependent	LIG4S	
LILRA1	Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1	XXbac-BCX85G21.3, CD85I, LIR-6, LIR6	
LILRB1	Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1	XXbac-BCX85G21.4, CD85J, ILT-2, ILT2, LIR-1, LIR1, MIR-7, MIR7	
LILRB2	Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2	XXbac-BCX105G6.12-005, CD85D, ILT-4, ILT4, LIR-2, LIR2, MIR-10, MIR10	
LILRB3	Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	XXbac-BCX105G6.7, CD85A, HL9, ILT-5, ILT5, LILRA6, LIR-3, LIR3, PIRB	
LILRP2			
LIMCH1	LIM and calponin homology domains 1	LIMCH1A, LMO7B	
LIMD1	LIM domains containing 1	LIMK, LIMK-1	
LIMK1	LIM domain kinase 1		
LIMK2	LIM domain kinase 2		
LIMS1	LIM and senescent cell antigen-like domains 1	PINCH, PINCH-1, PINCH1	
LIMS3	LIM and senescent cell antigen-like domains 2	PINCH-3	
LIMS3-LOC440895	LIM and senescent cell antigen-like domains 2	PINCH-3	
LIN28A	Lin-28 homolog A *(C. elegans)*	CSDD1, LIN-28, LIN28, ZCCHC1, lin-28A	
LIN28B	Lin-28 homolog B *(C. elegans)*	RP3-522O2.2, CSDD2	
LIN52			
LIN54	Lin-54 DREAM MuvB core complex	CXCDC1, JC8.6, MIP120	
LIN7C	5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled	RP11-810O3.1, 5-HT2C, 5-HTR2C, 5HTR2C, HTR1C	
LIPF	Lipase, gastric	RP11-186O14.1, GL, HGL, HLAL	
LIPG	Lipase, endothelial	UNQ387/PRO719, EDL, EL, PRO719	
LIX1			
LLPH			
LMAN1	Lectin, mannose-binding, 1	ERGIC-53, ERGIC53, F5F8D, FMFD1, MCFD1, MR60, gp58	
LMBR1	Limb development membrane protein 1	tcag7.573, ACHP, C7orf2, DIF14, PPD2, TPT, ZRS	
LMBR1L	Limb development membrane protein 1-like	UNQ458/PRO783, LIMR	
LMBRD1	LMBR1 domain containing 1	BM-021, C6orf209, LMBD1, MAHCF, NESI	

LMBRD2	LMBR1 domain containing 2		
LMCD1	LIM and cysteine-rich domains 1		
LMNA	Lamin A/C	RP11-34H19.1, CDCD1, CDDC, CMD1A, CMT2B1, EMD2, FPL, FPLD, FPLD2, HGPS, IDC, LDP1, LFP	
LMO1	LIM domain only 1 (rhombotin 1)	RBTN1, RHOM1, TTG1	√
LMO3	LIM domain only 3 (rhombotin-like 2)	RBTN3, RBTNL2, RHOM3, Rhom-3	
LMO4	LIM domain only 4		
LMO7	LIM domain 7	RP11-332E3.2, FBX20, FBXO20, LOMP	
LMOD1	Leiomodin 1 (smooth muscle)	1D, 64kD, D1, SM-LMOD	
LMOD3	leiomodin 3 (fetal)		
LMTK2			
LMX1A	LIM homeobox transcription factor 1, alpha	LMX1, LMX1.1	
LMX1B	LIM homeobox transcription factor 1, beta	RP11-489N22.3, LMX1.2, NPS1	
LNPEP	Leucyl/cystinyl aminopeptidase	CAP, IRAP, P-LAP, PLAP	
LNX2	Ligand of numb-protein X 2	PDZRN1	
LOC100049716	Uncharacterized LOC100049716		
LOC100093631	General transcription factor II, i, pseudogene		
LOC100124692			
LOC100125556			
LOC100125918	Uncharacterized LOC100125918		
LOC100128025			
LOC100128098			
LOC100128239	Uncharacterized LOC100128239		
LOC100128264			
LOC100128292			
LOC100128338			
LOC100128554	Uncharacterized LOC100128554	RP5-944M2.3	
LOC100128560			
LOC100128811			
LOC100129034	Uncharacterized LOC100129034		
LOC100129055	Cyclin Y-like 1 pseudogene		
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LOC100129195			
LOC100129250			

LOC100129387			
LOC100129503			
LOC100129550	Uncharacterized LOC100129550		
LOC100129620	Uncharacterized LOC100129620		
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LOC100129794			
LOC100129826	Uncharacterized LOC100129826		
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LOC100130000			
LOC100130148			
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LOC100130894			
LOC100130954			
LOC100131132	Uncharacterized LOC100131132		
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LOC100131347	RAD52 motif containing 1 pseudogene		
LOC100131496	Uncharacterized LOC100131496		
LOC100132111	Uncharacterized LOC100132111		
LOC100132352	FSHD region gene 1 pseudogene		
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LOC100132618			
LOC100132707			
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LOC100132735	Uncharacterized LOC100132735		
LOC100132832			
LOC100133029	Sirtuin 5 pseudogene	RP4-609E1.2	
LOC100133091	Uncharacterized LOC100133091		
LOC100133469			
LOC100133612			

LOC100134229			
LOC100134259			
LOC100134368	Uncharacterized LOC100134368		
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LOC100134868	Uncharacterized LOC100134868		
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LOC100216479			
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LOC100271831	Uncharacterized LOC100271831		
LOC100271832	Uncharacterized LOC100271832		
LOC100272228			
LOC100286844			
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LOC100302401			
LOC100302652			
LOC121838			
LOC121952			
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LOC144486			
LOC144571			
LOC144920			
LOC147004	Uncharacterized LOC147004		
LOC147670			
LOC147804			
LOC148145			
LOC148413	Uncharacterized LOC148413		
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LOC149773			
LOC150622			
LOC151162	Hypothetical LOC151162		
LOC151300			
LOC151484	Uncharacterized LOC151484		

LOC151534			
LOC152225	Uncharacterized LOC152225	RP11-221J22.1	
LOC152742			
LOC153328			
LOC153684	Uncharacterized LOC153684		
LOC154092			
LOC154822			
LOC157273	Uncharacterized LOC157273		
LOC158381			
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LOC253044	Uncharacterized LOC253044		
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LOC254099			
LOC255167			
LOC255187	Uncharacterized LOC255187	hCG_1980447	
LOC256880	Uncharacterized LOC256880	RP11-15B17.1	
LOC257358			
LOC283070	Uncharacterized LOC283070		
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LOC283887	Uncharacterized LOC283887		
LOC283914	Uncharacterized LOC283914		
LOC284294	Uncharacterized LOC284294		
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LOC284577	Uncharacterized LOC284577		
LOC284581	Uncharacterized LOC284581		
LOC284632	Uncharacterized LOC284632		
LOC284661	Uncharacterized LOC284661		
LOC284749			
LOC284861			
LOC284900			
LOC284926	Uncharacterized LOC284926		
LOC285026			
LOC285045			
LOC285074	Anaphase promoting complex subunit 1 pseudogene		
LOC285359			
LOC285401			
LOC285500	Uncharacterized LOC285500		
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LOC285505	Uncharacterized LOC285505		
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LOC286094	Uncharacterized LOC286094		
LOC286135			
LOC286184			
LOC286238	Uncharacterized LOC286238	RP13-60M5.2	
LOC286299			
LOC286367			
LOC29034			

LOC338651			
LOC338797	Uncharacterized LOC338797		
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LOC339240			
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LOC339539	Uncharacterized LOC339539		
LOC339926			
LOC340094			
LOC340113	Uncharacterized LOC340113		
LOC340544			
LOC344887	NmrA-like family domain containing 1 pseudogene		
LOC345643			
LOC349114			
LOC360030			
LOC374443	C-type lectin domain family 2, member D pseudogene		
LOC387647			
LOC387693			
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LOC388889			
LOC388906			
LOC388955	PKEL1 domain-containing protein 1, mitochondrial pseudogene		
LOC389043			
LOC389705	Chromosome 4 open reading frame 27 pseudogene		
LOC389791			
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LOC400553	Uncharacterized LOC400553		
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LOC400707	Uncharacterized LOC400707		

LOC400768	Uncharacterized LOC400768		
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LOC401317	Uncharacterized LOC401317		
LOC401463	Uncharacterized LOC401463		
LOC401588			
LOC440288			
LOC440419			
LOC440792	Proline dehydrogenase (oxidase) 1 pseudogene		
LOC440993			
LOC441046			
LOC441259	Postmeiotic segregation increased 2 pseudogene		
LOC441493			
LOC442308			
LOC442421			
LOC503519			
LOC554223	Histocompatibility antigen-related		
LOC572558			
LOC613126			
LOC613266	Uncharacterized LOC613266		
LOC63930	Uncharacterized LOC63930		
LOC641298			
LOC641364			
LOC641367	Cyclin Y-like 1 pseudogene		
LOC641515	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase-like protein		
LOC642597			
LOC642826			
LOC642852	Uncharacterized LOC642852		
LOC643327	Uncharacterized LOC643327		
LOC643387	AR DNA binding protein pseudogene		
LOC643406	Uncharacterized LOC643406		
LOC643648			

LOC643749			
LOC643763			
LOC643837			
LOC643955			
LOC644248			
LOC645166	Lymphocyte-specific protein 1 pseudogene		
LOC645195	Uncharacterized LOC645195		
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LOC645513	Uncharacterized LOC645513		
LOC646168			
LOC646241	Uncharacterized LOC646241		
LOC646736	Uncharacterized LOC646736		
LOC646813	DEAH (Asp-Glu-Ala-His) box helicase 9 pseudogene		
LOC646851			
LOC646999	Akirin 1 pseudogene		
LOC647121			
LOC647589			
LOC647979			
LOC650368			
LOC650623			
LOC651250			
LOC652276	Potassium channel tetramerization domain containing 5 pseudogene		
LOC653391			
LOC654433			
LOC654780			
LOC677759			
LOC727726			
LOC727896	Cysteine and histidine-rich domain (CHORD) containing 1 pseudogene		
LOC727924	Uncharacterized LOC727924		
LOC728095			
LOC728142			
LOC728192			
LOC728208	Uncharacterized LOC728208		

LOC728264			
LOC728276			
LOC728342			
LOC728377			
LOC728392	Uncharacterized LOC728392		
LOC728640			
LOC728660	Uncharacterized LOC728660		
LOC728723			
LOC728819	HCG1645220	hCG_1645220	
LOC729013			
LOC729082			
LOC729218			
LOC729444			
LOC729678			
LOC729739	Peptidylprolyl isomerase A (cyclophilin A) pseudogene		
LOC729799			
LOC729862			
LOC730101	Uncharacterized LOC730101		
LOC730668	Dynein heavy chain -like pseudogene		
LOC730811			
LOC731789			
LOC80054			
LOC80154			
LOC81691	Exonuclease NEF-sp	44M2.3	
LOC84740			
LOC84856			
LOC90246	Uncharacterized LOC90246		
LOC90586			
LOC93622	Mon1a family associated protein 1-like 1 pseudogene		
LOC96610			
LOH12CR1	Loss of heterozygosity, 12, chromosomal region 1		
LOH3CR2A			
LONRF1	LON peptidase N-terminal domain and ring finger 1	RNF191	

LONRF2	LON peptidase N-terminal domain and ring finger 2	RNF192	
LONRF3	LON peptidase N-terminal domain and ring finger 3	RP13-347D8.4, RNF127	
LOX	Lysyl oxidase		
LOXL2	Lysyl oxidase-like 2	LOR2, WS9-14	
LPAR1	Lysophosphatidic acid receptor 1	RP11-104M22.2, EDG2, GPR26, Gpcr26, LPA1, Mrec1.3, VZG1, edg-2, mrec1.3, vzg-1	
LPCAT1	Lysophosphatidylcholine acyltransferase 1	AYTL2, PFAAP3, lpcat	
LPCAT2	Lysophosphatidylcholine acyltransferase 2	AYTL1, LysoPAFAT	
LPGAT1	Lysophosphatidylglycerol acyltransferase 1	FAM34A, FAM34A1, NET8	
LPHN3	Latrophilin 3	CIRL3, LEC3	
LPIN1	Lipin 1	PAP1	
LPL	Lipoprotein lipase	HDLCQ11, LIPD	
LPP	LIM domain containing preferred translocation partner in lipoma		√
LPPR1	Lipid phosphate phosphatase-related protein t	RP11-35N6.1PRG-3	
LPPR4	Lipid phosphate phosphatase-related protein type 4	RP4-788L13.1LPR4, PHP1, PRG-1, PRG1	
LPPR5	Lipid phosphate phosphatase-related protein t	PAP2PAP2D, PRG5	
LRAT	lecithin retinol acyltransferase (phosphatidylcholine--retinol O-	LCA14	
LRBA	LPS-responsive vesicle trafficking, beach and anchor-like	BGL, CDC4L, CVID8, LAB300, LBA	
LRCH1	Leucine-rich repeats and calponin homology (CH) domain containing 1	RP11-147L20.3, CHDC1, NP81	
LRFN2	Leucine rich repeat and fibronectin type III domain containing 2	RP11-535K1.2, FIGLER2, KIAA1246, SALM1	
LRGUK	Leucine-rich repeats and guanylate kinase domain containing		
LRIG1	Leucine-rich repeats and immunoglobulin-like domains 1	LIG-1, LIG1	
LRP1	Low density lipoprotein receptor-related protein 1	A2MR, APOER, APR, CD91, IGFBP3R, LRPA, TGFBR5-LRP1	
LRP11	Low density lipoprotein receptor-related protein 11	RP11-350J20.11-002, MANSC3, bA350J20.3	
LRP12	Low density lipoprotein receptor-related protein 12	ST7	
LRP2	Low density lipoprotein receptor-related protein 2	DBS, GP330	
LRP2BP	LRP2 binding protein		
LRP4	Low density lipoprotein receptor-related protein 4	CLSS, LRP-4, LRP10, MEGF7, SOST2	
LRP6	Low density lipoprotein receptor-related protein 6	ADCAD2	
LRP8	Low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	RP5-1024G6.8, APOER2, HSZ75190, LRP-8, MCI1	
LRPPRC	Leucine-rich pentatricopeptide repeat containing	CLONE-23970, GP130, LRP130, LSFC	
LRRC1	Leucine rich repeat containing 1	RP3-523E19.1, LANO, dJ523E19.1	
LRRC10	Leucine rich repeat containing 10	HRLRRPA, LRRC10	
LRRC14	Leucine rich repeat containing 14	LRRC14A	

LRRC15	Leucine rich repeat containing 15	LIB	
LRRC17	Leucine rich repeat containing 17	UNQ3076/PRO9909, P37NB	
LRRC2	Leucine rich repeat containing 2		
LRRC27	Leucine rich repeat containing 27	RP11-273H7.2	
LRRC32	Leucine rich repeat containing 32	D11S833E, GARP	
LRRC34	Leucine rich repeat containing 34		
LRRC37A2	Leucine rich repeat containing 37, member A2	LRRC37	
LRRC37A4	Leucine rich repeat containing 37, member A4	LRRC37A4	
LRRC37B2	Leucine rich repeat containing 37B pseudogene 1	LRRC37B2	
LRRC4	Leucine rich repeat containing 4	NAG14, NGL-2	
LRRC43	Leucine rich repeat containing 43		
LRRC48	Leucine rich repeat containing 48		
LRRC55	Leucine rich repeat containing 55		
LRRC57	Leucine rich repeat containing 57		
LRRC58	Leucine rich repeat containing 58		
LRRC8A	Leucine rich repeat containing 8 family, mem	RP11-101E3.3, AGM5, LRRC8	
LRRC8C	Leucine rich repeat containing 8 family, member C	AD158, FAD158	
LRRC8D	Leucine rich repeat containing 8 family, member D	RP11-302M6.1, LRRC5	
LRRC9	Leucine rich repeat containing 9		
LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1	CLERC, SAP2, VFL1	
LRRFIP1	Leucine rich repeat (in FLII) interacting protein 1	FLAP-1, FLAP1, FLIIAP1, GCF-2, GCF2, HUFI-1, TRIP	
LRRFIP2	Leucine rich repeat (in FLII) interacting protein 2	HUFI-2	
LRRK1	Leucine-rich repeat kinase 1	RIPK6, Roco1	
LRRK2	Leucine-rich repeat kinase 2	AURA17, DARDARIN, PARK8, RIPK7, ROCO2	
LRRN1	Leucine rich repeat neuronal 1	Nbla10449, FIGLER3, NLRR-1	
LRRTM4	Leucine rich repeat transmembrane neuronal 4	UNQ3075/PRO9907	
LSG1	Large 60S subunit nuclear export GTPase 1		
LSM14A	LSM14A, SCD6 homolog A *(S. cerevisiae)*	C19orf13, FAM61A, RAP55, RAP55A	
LTBP2	Latent transforming growth factor beta binding protein 2	C14orf141, GLC3D, LTBP3, MSPKA, MSTP031, WMS3	
LTBP4	Latent transforming growth factor beta binding protein 4	ARCL1C, LTBP-4L, LTBP4S,LTBP4	
LTV1	LTV1 ribosome biogenesis factor	C6orf93, dJ468K18.4	
LUC7L2	LUC7-like 2 *(S. cerevisiae)*	CGI-59, CGI-74, LUC7B2	
LUC7L3	LUC7-like 3 *(S. cerevisiae)*	CRA, CREAP-1, CROP, LUC7A, OA48-18, hLuc7A	

LUZP1	Leucine zipper protein 1	RP1-184J9.3, LUZP	
LUZP2	Leucine zipper protein 2	UNQ2566/PRO6246, KFSP2566, PRO6246	
LY75	Lymphocyte antigen 75	CD205, CLEC13B, DEC-205, GP200-MR6, LY-75	
LY86	Lymphocyte antigen 86	RP1-80N2.1, MD-1, MMD-1, dJ80N2.1	
LYG2	Lysozyme G-like 2	LYGH	
LYPD5	LY6/PLAUR domain containing 5	UNQ1908/PRO4356, PRO4356	
LYPD6	LY6/PLAUR domain containing 6	UNQ3023/PRO9821	
LYPLA2	Lysophospholipase II	RP5-886K2.5, APT-2, DJ886K2.4	
LYRM1	LYR motif containing 1	A211C6.1	
LYRM2	LYR motif containing 2	DJ122O8.2	
LYRM5	LYR motif containing 5		
LYRM7	LYR motif containing 7	C5orf31, MC3DN8, MZM1L	
LYSMD2	LysM, putative peptidoglycan-binding, domain containing 2		
LYSMD3	LysM, putative peptidoglycan-binding, domain containing 3		
LYSMD4	LysM, putative peptidoglycan-binding, domain containing 4		
LYST	Lysosomal trafficking regulato	CHS, CHS1	
LYZL1	Lysozyme-like 1	UNQ648/PRO1278, KIAA0648, LYC2, PRO1278, bA534C20.1	
LYZL2	Lysozyme-like 2		
LZTFL1	Leucine zipper transcription factor-like 1	BBS17	
LZTS1	Leucine zipper, putative tumor suppressor 1	F37, FEZ1	
MAB21L2	Mab-21-like 2 *(C. elegans)*	MCOPS14	
MACC1	Metastasis associated in colon cancer 1	7A5, SH3BP4L	
MACF1	Microtubule-actin crosslinking factor 1	ABP620, ACF7, MACF, OFC4	
MACROD2	MACRO domain containing 2	RP11-189J1.1, C20orf133	
MAD2L1	MAD2 mitotic arrest deficient-like 1	HSMAD2, MAD2	
MADD	MAP-kinase activating death domain	DENN, IG20, RAB3GEP	
MAEA	Macrophage erythroblast attacher	HLC10, EMLP, EMP, GID9, HLC-10, PIG5	
MAEL	Maelstrom spermatogenic transposon silencer	RP11-102C16.1, CT128, SPATA35	
MAF	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog	CCA4, c-MAF	√
MAFB	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog B	KRML, MCTO	√
MAFK	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K	NFE2U, P18	
MAGEA1	Melanoma antigen family A, 1 (directs expression of antigen MZ2-E)	CT1.1, MAGE1	
MAGEA11	Melanoma antigen family A, 11	CT1.11, MAGE-11, MAGE11, MAGEA-11	

MAGEA4	Melanoma antigen family A, 4	CT1.4, MAGE-41, MAGE-X2, MAGE4, MAGE4A, MAGE4B	
MAGEA5	Melanoma antigen family A, 5	CT1.5, MAGE5, MAGEA4	
MAGEB1	Melanoma antigen family B, 1	CT3.1, DAM10, MAGE-Xp, MAGEL1	
MAGEB10	Melanoma antigen family B, 10		
MAGEB2	Melanoma antigen family B, 2	CT3.2, DAM6, MAGE-XP-2	
MAGEB3	Melanoma antigen family B, 3	CT3.5	
MAGEB4	Melanoma antigen family B, 4	CT3.6	
MAGI1	Membrane associated guanylate kinase, WW and PDZ domain containing 1	RP11-88H12.2, AIP-3, AIP3, BAIAP1, BAP-1, BAP1, MAGI-1, Magi1d, TNRC10, WWP2	
MAGI2	Membrane associated guanylate kinase, WW and PDZ domain containing 2	ACVRIP1, AIP-1, AIP1, ARIP1, MAGI-2, SSCAM	
MAGI3	Membrane associated guanylate kinase, WW and PDZ domain containing 3		
MAGOHB	Mago-nashi homolog B (Drosophila)	MGN2, mago, magoh	
MAGT1	Magnesium transporter 1	RP11-217H1.1, IAP, MRX95, OST3B, PRO0750, XMEN, bA217H1.1	
MAL2	Mal, T-cell differentiation protein 2 (gene/pseudogene)		
MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)	PRO1073, HCN, LINC00047, MALAT-1, NCRNA00047, NEAT2, PRO2853, mascRNA	√
MALT1	Mucosa associated lymphoid tissue lymphoma translocation gene 1	IMD12, MLT, MLT1	√
MAMDC2	MAM domain containing 2	RP11-373A9.2	
MAML1	Mastermind-like 1 (Drosophila)	Mam-1, Mam1	
MAN1A1	Mannosidase, alpha, class 1A, member 1	HUMM3, HUMM9, MAN9	
MAN2A2	Mannosidase, alpha, class 2A, member 2	MANA2X	
MANBA	Mannosidase, beta A, lysosomal	MANB1	
MANEA	Mannosidase, endo-alpha	ENDO, hEndo	
MAOA	Monoamine oxidase A	RP1-201D17__B.2, MAO-A	
MAP1A	Microtubule-associated protein 1A	MAP1L, MTAP1A	
MAP1B	Microtubule-associated protein 1B	FUTSCH, MAP5, PPP1R102	
MAP1LC3B	Microtubule-associated protein 1 light chain 3 beta	ATG8F, LC3B, MAP1A/1BLC3-a, MAP1LC3B	
MAP2	Microtubule-associated protein 2	MAP2AB, MAP2C, MAP2	
MAP2K1	Mitogen-activated protein kinase kinase 1	CFC3, MAPKK1, MEK1, MKK1, PRKMK1	√
MAP2K4	Mitogen-activated protein kinase kinase 4	JNKK, JNKK1, MAPKK4, MEK4, MKK4, PRKMK4, SAPKK-1, SAPKK1, SEK1, SERK1, SKK1	√
MAP2K6	Mitogen-activated protein kinase kinase 6	MAPKK6, MEK6, MKK6, PRKMK6, SAPKK-3, SAPKK3	
MAP3K10	Mitogen-activated protein kinase kinase kinase 10	MEKK10, MLK2, MST	
MAP3K15	Mitogen-activated protein kinase kinase kinase 15	RP11-723P2.3, ASK3, bA723P2.3	
MAP3K3	Mitogen-activated protein kinase kinase kinase 3	MAPKKK3, MEKK3	
MAP3K4	Mitogen-activated protein kinase kinase kinase 4	RP5-473J16.4, MAPKKK4, MEKK 4, MEKK4, MTK1, PRO0412	

MAP3K8	Mitogen-activated protein kinase kinase kinase 8	RP11-449I17.8, COT, EST, ESTF, MEKK8, TPL2, Tpl-2, c-COT	
MAP3K9	Mitogen-activated protein kinase kinase kinase 9	MEKK9, MLK1, PRKE1	
MAP4K3	Mitogen-activated protein kinase kinase kinase kinase 3	GLK, MAPKKKK3, MEKKK 3, MEKKK3, RAB8IPL1	
MAP4K4	Mitogen-activated protein kinase kinase kinase kinase 4	FLH21957, HEL-S-31, HGK, MEKKK4, NIK	
MAP4K5	Mitogen-activated protein kinase kinase kinase kinase 5	GCKR, KHS, KHS1, MAPKKKK5	
MAP6	Microtubule-associated protein 6	MTAP6, N-STOP, STOP	
MAP6D1	MAP6 domain containing 1	MAPO6D1, SL21	
MAP7	Microtubule-associated protein 7	E-MAP-115, EMAP115	
MAP7D2	MAP7 domain containing 2	RP11-393H10.2	
MAP9	Microtubule-associated protein 9	ASAP	
MAPK1	Mitogen-activated protein kinase 1	ERK, ERK-2, ERK2, ERT1, MAPK2, P42MAPK, PRKM1, PRKM2, p38, p40, p41, p41mapk, p42-MAPK	
MAPK10	Mitogen-activated protein kinase 10	RP13-514E23.1, JNK3, JNK3A, PRKM10, SAPK1b, p493F12, p54bSAPK	
MAPK11	Mitogen-activated protein kinase 11	P38B, P38BETA2, PRKM11, SAPK2, SAPK2B, p38-2, p38Beta	
MAPK12	Mitogen-activated protein kinase 12	ERK3, ERK6, P38GAMMA, PRKM12, SAPK-3, SAPK3	
MAPK14	Mitogen-activated protein kinase 14	RP1-179N16.3, CSBP, CSBP1, CSBP2, CSPB1, EXIP, Mxi2, PRKM14, PRKM15, RK, SAPK2A, p38	
MAPK1IP1L	Mitogen-activated protein kinase 1 interacting protein 1-like	C14orf32, MISS, c14_5346	
MAPK4	Mitogen-activated protein kinase 4	ERK-4, ERK4, PRKM4, p63-MAPK, p63MAPK	
MAPK8IP3	Mitogen-activated protein kinase 8 interacting protein 3	AC012180.8, JIP3, JSAP1, SYD2, syd	
MAPK9	Mitogen-activated protein kinase 9	JNK-55, JNK2, JNK2A, JNK2ALPHA, JNK2B, JNK2BETA, PRKM9, SAPK, SAPK1a, p54a, p54aSAPK	
MAPKAP1	Mitogen-activated protein kinase associated protein 1	RP11-269P11.1, JC310, MIP1, SIN1, SIN1b, SIN1g	
MAPKAPK3	Mitogen-activated protein kinase-activated protein kinase 3	3PK, MAPKAP-K3, MAPKAP3, MAPKAPK-3, MK-3	
MAPKBP1	Mitogen-activated protein kinase binding protein 1	JNKBP-1	
MAPRE1	Microtubule-associated protein, RP/EB family, member 1	EB1	
MAPT	Microtubule-associated protein tau	DDPAC, FTDP-17, MSTD, MTBT1, MTBT2, PPND, PPP1R103, TAU, MAPT	
MARCH1	Membrane-associated ring finger (C3HC4) 1, E3 ubiquitin protein ligase	MARCH-I, RNF171	
MARCH3	Membrane-associated ring finger (C3HC4) 3, E3 ubiquitin protein ligase	MARCH-III, RNF173	
MARCH5	Membrane-associated ring finger (C3HC4) 5	RP11-543N17.3, MARCH-V, MITOL, RNF153	
MARCH6	Membrane-associated ring finger (C3HC4) 6, E3 ubiquitin protein ligase	DOA10, MARCH-VI, RNF176, TEB4	
MARCKS	Myristoylated alanine-rich protein kinase C substrate	80K-L, MACS, PKCSL, PRKCSL	
MARK1	MAP/microtubule affinity-regulating kinase 1	MARK, Par-1c, Par1c	
MARK2	MAP/microtubule affinity-regulating kinase 2	EMK-1, EMK1, PAR-1, Par-1b, Par1b	
MARS	Methionyl-tRNA synthetase	METRS, MRS, MTRNS, SPG70	
MARVELD1	MARVEL domain containing 1	RP11-548K23.8, GB14, MARVD1, MRVLDC1, bA548K22.8	

MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive	3MC1, CRARF, CRARF1, MAP1, MASP, MASP3, MAp44, PRSS5, RaRF	
MAST4	Microtubule associated serine/threonine kinase family member 4		
MAT2A	Methionine adenosyltransferase II, alpha	MATA2, MATII, SAMS2	
MATN2	Matrilin 2	UNQ193/PRO219	
MATN3	Matrilin 3	DIPOA, EDM5, HOA, OADIP, OS2	
MATR3	Matrin 3	ALS21, MPD2, VCPDM	
MAVS	Mitochondrial antiviral signaling protein	CARDIF, IPS-1, IPS1, VISA	
MB	Myoglobin	RP4-569D19.7, PVALB, myoglobgin	
MBD1	Methyl-CpG binding domain protein 1	CXXC3, PCM1, RFT	
MBD2	Methyl-CpG binding domain protein 2	DMTase, NY-CO-41	
MBD4	Methyl-CpG binding domain protein 4	MED1	
MBD5	Methyl-CpG binding domain protein 5	MRD1	
MBIP	MAP3K12 binding inhibitory protein 1	BM-015	
MBLAC2	Metallo-beta-lactamase domain containing 2		
MBNL1	Muscleblind-like splicing regulator 1	EXP, EXP35, EXP40, EXP42, MBNL	
MBNL2	Muscleblind-like splicing regulator 2	RP11-128N14.1, MBLL, MBLL39, PRO2032	
MBNL3	Muscleblind-like splicing regulator 3	RP5-842K24.3, CHCR, MBLX, MBLX39, MBXL	
MBOAT1	Membrane bound O-acyltransferase domain containing 1	RP1-130G2.2, 1, LPEAT1, LPLAT1, LPLAT 1, LP3AT, OACT1, dJ424O11.1	
MBOAT2	Membrane bound O-acyltransferase domain containing 2	LPCAT4, OACT2	
MBP	Myelin basic protein		
MBTD1	Mbt domain containing 1	SA49P01	
MBTPS2	Membrane-bound transcription factor	BRESEK, IFAP, KFSD, KFSDX, OLMSX, S2P	
MC2R	Melanocortin 2 receptor (adrenocorticotropic hormone)	ACTHR	
MCART6			
MCC	Mutated in colorectal cancers	MCC1	
MCCC2	Methylcrotonoyl-CoA carboxylase 2 (beta)	MCCB	
MCFD2	Multiple coagulation factor deficiency 2	F5F8D, F5F8D2, LMAN1IP, SDNSF	
MCL1	Myeloid cell leukemia 1	BCL2L3, EAT-L3, MCL1L, MCL1S, Mcl-1, TM, bcl2-L-3, mcl1/EAT, MCL1	
MCM10	Minichromosome maintenance complex component 10	PRO2249, CNA43, DNA43	
MCM3	Minichromosome maintenance complex component 3	RP1-108C2.3, HCC5, P1-MCM3, P1.h, RLFB	
MCM6	Minichromosome maintenance complex component 6	MCG40308, Mis5, P105MCM	
MCM9	Minichromosome maintenance complex component 9	RP5-829L24.2, C6orf61, MCMDC1, dJ329L24.1, dJ329L24.2	
MCOLN3	Mucolipin 3	TRP-ML3, TRPML3	

MCPH1	Microcephalin 1	BRIT1, MCT	
MCTP2	Multiple C2 domains, transmembrane 2	RP11-4F5.2	
MCTS1	Malignant T cell amplified sequence 1	MCT-1, MCT1	
MDFIC	MyoD family inhibitor domain containing	HIC	
MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1	RP3-402N21.1, GPIM, MAMDC3	
MDGA2	MAM domain containing glycosylphosphatidylinositol anchor 2	UNQ8188/PRO23197, MAMDC1, c14_5286	
MDH1B	Malate dehydrogenase 1B, NAD (soluble)	RP11-95H11	
MDM1	Mdm1 nuclear protein homolog (mouse)		
MDM2	MDM2 proto-oncogene, E3 ubiquitin protein ligase	ACTFS, HDMX, hdm2	√
MDM4	MDM4, p53 regulator	RP11-430C7.1, HDMX, MDMX, MRP1	√
MDP1	Magnesium-dependent phosphatase 1	FN6PASE, MDP-1	
MDS2	Myelodysplastic syndrome 2 translocation associated	RP11-223J15.1	√
ME1	Malic enzyme 1, NADP(+)-dependent, cytosolic	HUMNDME, MES	
ME2	Malic enzyme 2, NAD(+)-dependent, mitochondrial	ODS1	
MEA1	Male-enhanced antigen 1	HYS, MEA	
MEAF6	MYST/Esa1-associated factor 6	RP3-423B22.2, C1orf149, CENP-28, EAF6, NY-SAR-91	
MECOM	MDS1 and EVI1 complex locus	hCG_1640456, AML1-EVI-1, EVI1, MDS1, MDS1-EVI1, PRDM3	
MECP2	Methyl CpG binding protein 2	AUTSX3, MRX16, MRX79, MRX115, MRX3L, PPMX, PS, RTS, RTT	
MED1	Mediator complex subunit 1	CRSP1, CRSP200, DRIP205, DRIP230, PBP, PPARBP, PPARGBP, RB18A, TRAP220, TRIP2	
MED10	Mediator complex subunit 10	L6, NUT2, TRG20	
MED13	Mediator complex subunit 13	ARC250, DRIP250, HSPC221, THRAP1, TRAP240	
MED13L	Mediator complex subunit 13-like	PROSIT240, THRAP2, TRAP240L	
MED14	Mediator complex subunit 14	CRSP150, CRSP2, CSRP, CX6H4, DRIP150, EXLM1, PGR1, TRAP170	
MED17	Mediator complex subunit 17	CRSP6, CRSP77, DRIP80, TRAP80	
MED20	Mediator complex subunit 20	RP5-973N23.1, PRO0213, TRFP	
MED22	Mediator complex subunit 22	RP11-244N20.9, MED24, SURF5, surf-5	
MED26	Mediator complex subunit 26	CRSP7, CRSP70	
MED28	Mediator complex subunit 28	FKSG20, 1500003D12Rik, EG1, magicin	
MED6	Mediator complex subunit 6	ARC33, NY-REN-28	
MED8	Mediator complex subunit 8	RP1-92O14.5, ARC32	
MED9	Mediator complex subunit 9	MED25	
MEF2A	Myocyte enhancer factor 2A	ADCAD1, RSRFC4, RSRFC9, mef2	
MEF2C	Myocyte enhancer factor 2C	C5DELq14.3, DEL5q14.3	

MEG3	Maternally expressed 3 (non-protein coding)	FP504, GTL2, LINC00023, NCRNA00023, PRO0518, PRO2160, prebp1	
MEGF10	Multiple EGF-like-domains 10	EMARDD	
MEGF11	Multiple EGF-like-domains 11	UNQ1949	
MEGF9	Multiple EGF-like-domains 9	UNQ671/PRO1305, EGFL5	
MEI1	Meiosis inhibitor 1	RP5-821D11.2, SPATA38	
MEIS2	Meis homeobox 2	HsT18361, MRG1	
MEIS3P1	Meis homeobox 3 pseudogene 1	MEIS3, MEIS4, MRG2	
MELK	Maternal embryonic leucine zipper kinase	maternal embryonic leucine zipper kinase	
MEP1A	Meprin A, alpha (PABA peptide hydrolase)	PPHA	
MEPE	Matrix extracellular phosphoglycoprotein	OF45	
MERTK	MER proto-oncogene, tyrosine kinase	MER, RP38, c-mer	
MESDC2	Mesoderm development candidate 2	UNQ1911/PRO4369, BOCA, MESD	
MEST	Mesoderm specific transcript	PEG1	
MET	MET proto-oncogene, receptor tyrosine kinase	AUTS9, HGFR, RCCP2, c-Met	√
METAP1	Methionyl aminopeptidase 1	MAP1A, MetAP1A	
METAP2	Methionyl aminopeptidase 2	MAP2, MNPEP, p67, p67eIF2	
METT5D1			
METTL1	Methyltransferase like 1	C12orf1, TRM8, TRMT8, YDL201w	
METTL10	Methyltransferase like 10	C10orf138, Em:AC068896.3	
METTL12	Methyltransferase like 12	U99HG	
METTL13	Methyltransferase like 13	CGI-01, 5630401D24Rik, KIAA0859, feat	
METTL14	Methyltransferase like 14		
METTL2A	Methyltransferase like 2A	HSPC266, METTL2	
METTL8	Methyltransferase like 8	TIP	
METTL9	Methyltransferase like 9	CGI-81, DREV, DREV1, PAP1	
MEX3A	Mex-3 RNA binding family member A	MEX-3A, RKHD4	
MEX3B	Mex-3 RNA binding family member B	MEX-3B, RKHD3, RNF195	
MEX3C	Mex-3 RNA binding family member C	BM-013, MEX-3C, RKHD2, RNF194	
MFAP3	Microfibrillar-associated protein 3		
MFAP3L	Microfibrillar-associated protein 3-like	HSD39, NYD-sp9	
MFN1	Mitofusin 1	hfzo1, hfzo2	
MFSD1	Major facilitator superfamily domain containing 1	UG0581B09, SMAP4	
MFSD11	Major facilitator superfamily domain containing 11	ET	

MFSD4	Major facilitator superfamily domain containing 4	UNQ3064/PRO9894, UNQ3064	
MFSD6	Major facilitator superfamily domain containing 6	MMR2, hMMR2	
MFSD8	Major facilitator superfamily domain containing 8	CLN7	
MGA	MGA, MAX dimerization protein	MAD5, MXD5	
MGAT2	Mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase	CDG2A, CDGS2, GLCNACTII, GNT-II, GNT2	
MGAT3	Mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	RP5-1104E15.2, GNT-III, GNT3	
MGAT4A	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	GNT-IV, GNT-IVA, GnT-4a	
MGAT5B	M+B7898annosyl (alpha-1,6-)-glycoprotein	GnT-IX, GnT-VB	
MGC11082			
MGC13053			
MGC20647	Uncharacterized protein MGC20647		
MGC21881			
MGC23284			
MGC2752			
MGC2889	Uncharacterized protein MGC2889		
MGC34034			
MGC42157			
MGEA5	Meningioma expressed antigen 5 (hyaluronidase)	MEA5, NCOAT, OGA	
MGLL	Monoglyceride lipase	HU-K5, HUK5, MAGL, MGL	
MGRN1	Mahogunin ring finger 1, E3 ubiquitin protein ligase	RNF156	
MIA2	Melanoma inhibitory activity 2		
MIA3	Melanoma inhibitory activity family, member 3	RP11-378J18.4, ARNT, D320, TANGO, TANGO1, UNQ6077	
MIAT	Myocardial infarction associated transcript (non-protein coding)	C22orf35, GOMAFU, LINC00066, NCRNA00066, RNCR2	
MIB1	Mindbomb E3 ubiquitin protein ligase 1	DIP-1, DIP1, LVNC7, MIB, ZZANK2, ZZZ6	
MICAL2	Microtubule associated monooxygenase, calponin and LIM domain containing 2	MICAL-2PV1, MICAL2PV2, MICAL2	
MICAL3	Microtubule associated monooxygenase, calponin and LIM domain containing 3	hCG_21531, MICAL-3	
MID2	Midline 2	RP6-191P20.2, FXY2, MRX101, RNF60, TRIM1	
MIER1	Mesoderm induction early response 1, transcriptional regulator	RP5-944N15.1, ER1, MI-ER1	
MIER3	Mesoderm induction early response 1, family member 3		
MINA	MYC induced nuclear antigen	MDIG53, NO52, ROX, MINA	
MINK1	Misshapen-like kinase 1	B55, MAP4K6, MINK, YSK2, ZC3, hMINK, hMINKbeta	
MINPP1	Multiple inositol-polyphosphate phosphatase 1	RP11-57C13.1, HIPER1, MINPP2, MIPP	
MIP	Major intrinsic protein of lens fiber	AQP0, CTRCT15, LIM126, MP26, MIP	

MIPOL1	Mirror-image polydactyly 1		
MIR17HG	MIR-17-92 cluster host gene (non-protein coding)	RP11-121J7.2, C13orf25, FGLD32, LINC00048, MIRG1, MIRH1, MIRHG1, NCRNA00048, miR-17-92	
MIR34A	MicroRNA 34a	MIRN34A, miRNA34A, mir-34	
MITD1	MIT, microtubule interacting and transport, domain containing 1		
MITF	Microphthalmia-associated transcription factor	CMM8, MI, WS2, WS2A, bHLHe32	√
MKI67	Marker of proliferation Ki-67	RP11-380J17.2, KIA, MIB-, MIB-1, PPP1R105	
MKL1	Megakaryoblastic leukemia (translocation) 1	RP5-1042K10.11-009, BSAC, MAL, MRTF-A	√
MKLN1	Muskelin 1, intracellular mediator containing kelch motife	TWA2	
MKNK1	MAP kinase interacting serine/threonine kinase 1	RP11-49P4.3, MNK1	
MKNK2	MAP kinase interacting serine/threonine kinase 2	GPRK7, MNK2	
MKRN1	Makorin ring finger protein 1	RNF61	
MKRN3	Makorin ring finger protein 3	CPPB2, D15S9, RNF63, ZFP127, ZNF127	
MKX	Makorin ring finger protein 3	CPPB2, D15S9, RNF63, ZFP127, ZNF127	
MLANA	Melan-A	RP11-546N22.1, MART-1, MART1	
MLEC	Malectin	KIAA0152	
MLF1	Myeloid leukemia factor 1		√
MLH1	MutL homolog 1	COCA2, FCC2, HNPCC, HNPCC2, hMLH1	√
MLKL	Mixed lineage kinase domain-like	hMLKL	
MLL			√
MLL2			
MLL3			√
MLL5			
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);	RP11-399C16.2, AF10	√
MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);	AF9, YEATS3	√
MLLT4	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);	AF6	√
MLLT6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);	AF17	√
MLXIP	MLX interacting protein	MIR, MONDOA, bHLHe36	
MMAA	Methylmalonic aciduria (cobalamin deficiency) cblA type	cblA	
MMACHC	Methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	RP11-291L19.3, cblC	
MME	Membrane metallo-endopeptidase	CALLA, CD10, NEP, SFE	
MMGT1	Membrane magnesium transporter 1	RP11-274K13.3, EMC5, TMEM32	
MMP1	Matrix metallopeptidase 1 (interstitial collagenase)	CLG, CLGN	
MMP10	Matrix metallopeptidase 10 (stromelysin 2)	SL-2, STMY2	

MMP13	Matrix metallopeptidase 13 (collagenase 3)	CLG3, MANDP1, MMP-13	
MMP14	Matrix metallopeptidase 14 (membrane-inserted)	MMP-14, MMP-X1, MT-MMP, MT1-MMP, MT1-MMP-1, MT1MMP, MTMMP1, WNCHRS	
MMP20	Matrix metallopeptidase 20	AI2A2, MMP-20	
MMP25	Matrix metallopeptidase 25	MMP-25, MMP20, MMP20A, MMPL1, MT-MMP 6, MT6-MMP, MT6MMP, MTMMP6	
MMP7	Matrix metallopeptidase 7 (matrilysin, uterine)	MMP-7, MPSL1, PUMP-1	
MMP8	Matrix metallopeptidase 8 (neutrophil collagenase)	CLG1, HNC, MMP-8, PMNL-CL	
MMRN2	Multimerin 2	EMILIN-3, EMILIN3, ENDOGLYX-1	
MN1	Meningioma (disrupted in balanced translocation) 1	CTA-457G10__B.1, MGCR, MGCR1, MGCR1-PEN, dJ252E16.2	√
MNT	MAX network transcriptional repressor	MAD6, MXD6, ROX, bHLHd3	
MNX1	Motor neuron and pancreas homeobox 1	HB9, HLXB9, HOXHB9, SCRA1	
MOBKL1A			
MOBKL2B			
MOBKL2C			
MOBKL3			
MOBP	Myelin-associated oligodendrocyte basic protein		
MOCS2	Molybdenum cofactor synthesis 2	MCBPE, MOCO1, MOCODB, MPTS	
MOG	Myelin oligodendrocyte glycoprotein	DAQB-92E24.2, BTN6, BTNL11IG2, NRCLP7, MOG	
MOGS	Mannosyl-oligosaccharide glucosidase	CDG2B, CWH41, DER7, GCS1	
MON1A	MON1 secretory trafficking family member A	SAND1	
MON1B	MON1 secretory trafficking family member B	HSRG1, SAND2, SRG1	
MON2	MON2 homolog *(S. cerevisiae)*		
MORC3	MORC family CW-type zinc finger 3	NXP2, ZCW5, ZCWCC3	
MORC4	MORC family CW-type zinc finger 4	RP1-75H8.4, ZCW4, ZCWCC2, dJ75H8.2	
MORN4	MORN repeat containing 4	RP11-548K23.4, C10orf83, bA548K23.4	
MOSC1			
MOSC2			
MOSPD1	Motile sperm domain containing 1	RP3-473B4.2, DJ473B4	
MOSPD2	Motile sperm domain containing 2		
MPL	MPL proto-oncogene, thrombopoietin receptor	RP1-92O14.1, C-MPL, CD110V, THCYT2, TPOR, MPL	√
MPP2	Membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2)	DLG2	
MPP3	Membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3)	DLG3	
MPP4	Membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)	ALS2CR5, DLG6	
MPP5	Membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	PALS1	

MPP7	Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	RP11-218D6.5	
MPPE1	Metallophosphoesterase 1	PP579, PGAP5	
MPPED2	Metallophosphoesterase domain containing 2	239FB, C11orf8	
MPST	Mercaptopyruvate sulfurtransferase	LL22NC01-146D10.4, MST, TST2	
MPV17L	MPV17 mitochondrial membrane protein-like	M-LPH, MLPH1, MLPH21, MPV17L	
MPZ	Myelin protein zero	CHM, CMT1, CMT1B, CMT2I, CMT2J, CMT4E, CMTDI2, CMTDID, DSS, HMSNIB, MPP, P0	
MPZL3	Myelin protein zero-like 3	UNQ2966/PRO7425	
MRAP2	Melanocortin 2 receptor accessory protein 2	RP11-51G5.2, BMIQ18, C6orf117, bA51G5.2	
MRC1	Mannose receptor, C type 1	RP11-457D2.1, CD206, CLEC13D, CLEC13DL, MMRL1, bA541H10.1, MRC1	
MRE11A	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	ATLD, HNGS1, MRE11, MRE11B	
MRFAP1L1	Morf4 family associated protein 1-like 1	PP784	
MRGPRX2	MAS-related GPR, member X2	MGRG3, MRGX2	
MRI1	Methylthioribose-1-phosphate isomerase 1	UNQ6390/PRO21135, MRDI, MTNA, Ypr118w	
MRM1	Mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)		
MRO	Maestro	B29, C18orf3	
MRPL12	Mitochondrial ribosomal protein L12	3C3-2, L12mt, MRP-L31/34, MRPL7, MRPL7/L12, RPML12	
MRPL13	Mitochondrial ribosomal protein L13	L13, L13A, L13mt, RPL13, RPML13	
MRPL17	Mitochondrial ribosomal protein L17	L17mt, LIP2, MRP-L17, MRP-L26, RPL17L, RPML26	
MRPL19	Mitochondrial ribosomal protein L19	RP11-342K6.1, L19mt, MRP-L15, MRP-L19, MRPL15, PLX1, RPML15	
MRPL2	Mitochondrial ribosomal protein L2	CGI-22, MRP-L14, RPML14	
MRPL22	Mitochondrial ribosomal protein L22	HSPC158, L22mt, MRP-L22, MRP-L25, RPML25	√
MRPL30	Mitochondrial ribosomal protein L30	HSPC249, L28MT, L30MT, MRP-L28, MRP-L30, MRPL28, MRPL28M, RPML28	
MRPL34	Mitochondrial ribosomal protein L34	L34mt	
MRPL35	Mitochondrial ribosomal protein L35	BM-007, L35mt, MRP-L35	
MRPL37	Mitochondrial ribosomal protein L37	HSPC235, L37mt, MRP-L2, MRP-L37, MRPL2, RPML2	
MRPL38	Mitochondrial ribosomal protein L38	HSPC262, L38MT, MRP-L3, MRP-L38, RPML3	
MRPL39	Mitochondrial ribosomal protein L39	MSTP005, C21orf92, L39mt, MRP-L5, MRPL5, PRED22, PRED66, RPML5	
MRPL42	Mitochondrial ribosomal protein L42	HSPC204, L31MT, L42MT, MRP-L31, MRP-L42, MRP-S22, MRPL21, MRPS22, PTD007, RPML21, S22MT	
MRPL43	Mitochondrial ribosomal protein L43	RP11-108L7.13-001, bMRP36a	
MRPL46	Mitochondrial ribosomal protein L46	C15orf4, LIECG2, P2ECSL	
MRPL50	Mitochondrial ribosomal protein L50	MRP-L50	
MRPS11	Mitochondrial ribosomal protein S11	HCC2, HCC-2	
MRPS14	Mitochondrial ribosomal protein S14	DJ262D12.2, HSMRPS14, MRP-S14, S14mt	

MRPS16	Mitochondrial ribosomal protein S16	CGI-132, COXPD2, MRP-S16, RPMS16	
MRPS18B	Mitochondrial ribosomal protein S18B	DADB-129D20.6, C60f14, HSPC185, Human516a, MRP-S18-2, MRPS18-2, PTD017, S18mt	
MRPS23	Mitochondrial ribosomal protein S23	CGI-138, HSPC329, MRP-S23	
MRPS25	Mitochondrial ribosomal protein S25	MRP-S25, RPMS25	
MRPS27	Mitochondrial ribosomal protein S27	MRP-S27, S27mt	
MRPS28	Mitochondrial ribosomal protein S28	HSPC007, MRP-S28, MRP-S35, MRPS35	
MRPS33	Mitochondrial ribosomal protein S33	CGI-139, MRP-S33, PTD003, S33mt	
MRPS35	Mitochondrial ribosomal protein S5	HDCMD11P, MDS023, MRP-S28, MRPS28	
MRPS6	Mitochondrial ribosomal protein S6	C21orf101, MRP-S6, RPMS6, S6mt	
MRPS9	Mitochondrial ribosomal protein S9	MRP-S9, RPMS9, S9mt	
MRRF	Mitochondrial ribosome recycling factor	MRFF, MTRRF, RRF	
MRS2	MRS2 magnesium transporter	HPTL, MRS2	
MRVI1	Murine retrovirus integration site 1 homolog	IRAG, JAW1L	
MS4A1	Membrane-spanning 4-domains, subfamily A, member 1	B1, Bp35, CD20, CVID5, LEU-16, MS4A2, S7	
MS4A14	Membrane-spanning 4-domains, subfamily A, member 14	MS4A16, NYD-SP21	
MS4A3	Membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell specific)	CD20L, HTM4	
MS4A6A	Membrane-spanning 4-domains, subfamily A, member 6A	CDA01, 4SPAN3, 4SPAN3.2, CD20L3, MS4A6, MST090, MSTP090	
MS4A7	Membrane-spanning 4-domains, subfamily A, member 7	4SPAN2, CD20L4, CFFM4, MS4A8	
MSH2	MutS homolog 2	COCA1, FCC1, HNPCC, HNPCC1, LCFS2	√
MSI1	Musashi RNA-binding protein 1		
MSI2	Musashi RNA-binding protein 2	MSI2H	√
MSL2	Musashi RNA-binding protein 2	MSI2H	
MSL3	Male-specific lethal 3 homolog (Drosophila)	MSL3L1	
MSR1	Macrophage scavenger receptor 1	CD204, SCARA1, SR-A, SRA, phSR1, phSR2	
MSRB3	Methionine sulfoxide reductase B3	UNQ1965/PRO4487, DFNB74	
MST1P2	Macrophage stimulating 1 (hepatocyte growth factor-like) pseudogene 2		
MSTN	Myostatin	GDF8, MSLHP	
MSTO2P	Misato family member 2, pseudogene	MSTO2	
MT1IP	Metallothionein 1I, pseudogene	MT1, MT1I, MTE	
MT1X	Metallothionein 1X	MT-1l, MT1	
MT2A	Metallothionein 2A	MT2	
MTA1	Metastasis associated 1		
MTAP	Methylthioadenosine phosphorylase	BDMF, DM3FH, DM3MFH, HEL-249, LGMBF, MSAP, c86fus	

MTBP	MDM2 binding protein	MTBP @ LOVD, MDM2BP	
MTCH1	Mitochondrial carrier 1	RP1-90K10.1, CGI-64, PIG60, PSAP, SLC25A49	
MTCH2	Mitochondrial carrier 2	HSPC032, MIMP, SLC25A50	
MTCP1NB			
MTDH	Metadherin	3D3, AEG-1, AEG1, LYRIC, LYRIC/3D3	
MTF1	Metal-regulatory transcription factor 1	MTF-1, ZRF	
MTF2	Metal response element binding transcription factor 2	RP5-976O13.1, M96, PCL2, TDRD19A, dJ976O13.2	
MTFR1	Mitochondrial fission regulator 1	CHPPR, FAM54A2	
MTHFD1L	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	RP1-292B18.2, FTHFSDC1, MTC1THFS, dJ292B18.2	
MTHFD2L	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like		
MTHFR	Methylenetetrahydrofolate reductase (NAD(P)H)	RP11-56N19.4	
MTHFS	5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	HsT19268	
MTL5	Metallothionein-like 5, testis-specific (tesmin)	CXCDC2, MTLT, TESMIN	
MTM1	Myotubularin 1	CNM, MTMX, XLMTM	
MTMR1	Myotubularin related protein 1		
MTMR10	Myotubularin related protein 10		
MTMR12	Myotubularin related protein 12	3-PAP, PIP3AP	
MTMR14	Myotubularin related protein 14	C3orf29	
MTMR15			
MTMR2	Myotubularin related protein 2	CMT4B, CMT4B1	
MTMR3	Myotubularin related protein 3	hCG_2011013, FYVE-DSP1, ZFYVE10	
MTMR6	Myotubularin related protein 6	RP11-271M24.1	
MTMR7	Myotubularin related protein 7		
MTMR8	Myotubularin related protein 8	RP11-284B18.5	
MTP18			
MTPN	Myotrophin	GCDP, V-1	
MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	HMAG, MS, cblG	
MTSS1	Metastasis suppressor 1	MIM, MIMA, MIMB	
MTUS1	Microtubule associated tumor suppressor 1	ATBP, ATIP, ICIS, MP44, MTSG1	
MTUS2	Microtubule associated tumor suppressor candidate 2	CAZIP, ICIS, KIAA0774, TIP150	
MTX2	MTX2		
MTX3	Metaxin 3		
MUC13	Mucin 13, cell surface associated	UNQ6194/PRO20221, DRCC1, MUC-13	

MUC17	Mucin 17, cell surface associated	MUC3	
MUC19	Mucin 19, oligomeric	MUC-19	
MUC20	Mucin 20, cell surface associated	UNQ2782/PRO7170, MUC-20	
MUC5AC	Mucin 5AC, oligomeric mucus/gel-forming	MUC5, TBM, leB	
MUC7	Mucin 7, secreted	MG2	
MUDENG			
MUL1	Mitochondrial E3 ubiquitin protein ligase 1	RP11-401M16.2, C16orf66, GIDE, MAPL, MULAN, RNF218	
MUS81	MUS81 structure-specific endonuclease subunit	SLX3	
MUT	Methylmalonyl CoA mutase	MCM	
MX2	MX dynamin-like GTPase 2	MXB	
MXD1	MAX dimerization protein 1	BHLHC58, MAD, MAD1	
MXRA7	Matrix-remodelling associated 7	PS1TP1, TMAP1	
MYADM	Myeloid-associated differentiation marker	UNQ553/PRO1110, SB135	
MYB	v-myb avian myeloblastosis viral oncogene homolog	RP1-32B1.1, Cmyb, c-myb, c-myb_CDS, efg	√
MYBL1	v-myb avian myeloblastosis viral oncogene homolog-like 1	A-MYB, AMYB	
MYBPC1	Myosin binding protein C, slow type	LCCS4, MYBPCC, MYBPCS	
MYCBP	MYC binding protein	AMY-1	
MYCBP2	MYC binding protein 2, E3 ubiquitin protein ligase	AC001226.5, PAM	
MYCBPAP	MYCBP associated protein	AMAP-1, AMAP1	
MYCN	v-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog	MODED, N-myc, NMYC, ODED, bHLHe37	√
MYEF2	Myelin expression factor 2	HsT18564, MEF-2, MST156, MSTP156, myEF-2	
MYEOV	Myeloma overexpressed	OCIM	
MYH10	Myosin, heavy chain 10, non-muscle	NMMHC-IIB, NMMHCB	
MYH11	Myosin, heavy chain 11, smooth muscle	AAT4, FAA4, SMHC, SMMHC	√
MYH15	Myosin, heavy chain 15		
MYH7B	Myosin, heavy chain 7B, cardiac muscle, beta	RP4-756N5.1, MHC14, MYH14	
MYL1	Myosin, light chain 1, alkali; skeletal, fast	MLC1F, MLC3F	
MYL6	Myosin, light chain 6, alkali, smooth muscle and non-muscle	ESMLC, LC17, LC17-GI, LC17-NM, LC17A, LC17B, MLC-2, MLC1SM, MLC2NM, MLC2SM	
MYLK3	Myosin light chain kinase 3	RP11-480G7.1, MLCK, MLCK2, caMLCK	
MYLK4	Myosin light chain kinase family, member 4	RP11-145H9.1, SgK085	
MYO10	Myosin X		
MYO15A	Myosin XVA	DFNB3, MYO15	
MYO16	Myosin XVI	RP11-34H7.1, MYAP3, MYR8, Myo16b, NYAP3, PPP1R107	

MYO18A	Myosin XVIIIA	MYSPDZ, SPR210	
MYO1C	Myosin IC	MMI-beta, MMIb, NMI, myr2	
MYO1D	Myosin ID	PPP1R108, myr4	
MYO1E	Myosin IE	FSGS6, HuncM-IC, MYO1C	
MYO3A	Myosin IIIA	DFNB30	
MYO3B	Myosin IIIB		
MYO5A	Myosin VA (heavy chain 12, myoxin)	GS1, MYH12, MYO5, MYR12	
MYO5B	Myosin VB		
MYO5C	Myosin VC		
MYO6	Myosin VI	RP3-472A9.1, DFNA22, DFNB37	
MYO7B	Myosin VIIB	hCG_42606	
MYO9B	Myosin IXB	CELIAC4, MYR5	
MYOCD	Myocardin	MYCD	
MYOM1	Myomesin 1	SKELEMIN	
MYOM3	Myomesin 3	RP11-293P20.1	
MYOZ3	Myomesin 3	RP11-293P20.1	
MYPN	Myopalladin	CMD1DD, CMH22, MYOP, RCM4	
MYRIP	Myosin VIIA and Rab interacting protein	SLAC2-C, SLAC2C	
MYSM1	Myb-like, SWIRM and MPN domains 1	RP4-592A1.1, 2A-DUB, 2ADUB	
MYST2	K(lysine) acetyltransferase 7	HBO1, HBOA, MYST2, ZC2HC7	
MYST3	K(lysine) acetyltransferase 6A	MOZ, MYST3, RUNXBP2, ZC2HC6A, ZNF220	
N4BP1	NEDD4 binding protein 1		
N4BP2L1	NEDD4 binding protein 2-like 1	RP11-298P3.2, CG018	
N4BP3	NEDD4 binding protein 3	LZTS4	
N6AMT1	N-6 adenine-specific DNA methyltransferase 1 (putative)	PRED28, C21orf127, HEMK2, MTQ2, N6AMT1, m.HsaHemK2P	
NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit	Ga19, NARG1, NAT1P, NATH, TBDN, TBDN100	
NAA16	N(alpha)-acetyltransferase 16, NatA auxiliary subunit	RP11-396A22.1, NARG1L	
NAA25	N(alpha)-acetyltransferase 25, NatB auxiliary subunit	C12orf30, MDM20, NAP1	
NAA30	N(alpha)-acetyltransferase 30, NatC catalytic subunit	C14orf35, MAK3, Mak3p, NAT12, NAT12P	
NAA35	N(alpha)-acetyltransferase 35, NatC auxiliary subunit	RP11-379P1.1, EGAP, MAK10, MAK10P, bA379P1.1	
NAA40	N(alpha)-acetyltransferase 40, NatD catalytic subunit	NAT11, PATT1	
NAA50	N(alpha)-acetyltransferase 50, NatE catalytic subunit	MAK3, NAT13, NAT13P, NAT5, NAT5P, SAN, hNAT5, hSAN	
NAAA	N-acylethanolamine acid amidase	ASAHL, PLT	

NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2	GCPIII, GPCIII, NAADALASE2, NAALADASE2	
NAALADL2	N-acetylated alpha-linked acidic dipeptidase-like 2		
NAB1	NGFI-A binding protein 1 (EGR1 binding protein 1)		
NACC1	nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	BEND8, BTBD14B, BTBD30, NAC-1, NAC1	
NAE1	NEDD8 activating enzyme E1 subunit 1	HPP1, A-116A10.1, APPBP1, ula-1	
NAF1	nuclear assembly factor 1 ribonucleoprotein		
NAIP	NLR family, apoptosis inhibitory protein	BIRC1, NLRB1, psiNAIP	
NAMPT	Nicotinamide phosphoribosyltransferase	1110035O14Rik, PBEF, PBEF1, VF, VISFATIN	
NANP	N-acetylneuraminic acid phosphatase	C20orf147, HDHD4, dJ694B14.3	
NANS	N-acetylneuraminic acid synthase	RP11-404F11.3, HEL-S-100, SAS	
NAP1L1	Nucleosome assembly protein 1-like 1	NAP1, NAP1L, NRP	
NAP1L2	Nucleosome assembly protein 1-like 2	BPX	
NAP1L5	Nucleosome assembly protein 1-like 5	DRLM	
NAPB	N-ethylmaleimide-sensitive factor attachment protein, beta	RP3-322G13.2, SNAP-BETA, SNAPB	
NARF	Nuclear prelamin A recognition factor	IOP2	
NARG2			
NAV1	Neuron navigator 1	POMFIL3, STEERIN1, UNC53H1	
NAV2	Neuron navigator 2	HELAD1, POMFIL2, RAINB1, STEERIN2, UNC53H2	
NBEA	Neurobeachin	RP11-270C18.1, BCL8B, LYST2	
NBL1	Neuroblastoma 1, DAN family BMP antagonist	RP5-1056L3.4, D1S1733E, DAN, DAND1, NB, NO3	
NBLA00301	HAND2 antisense RNA 1 (head to head)	DEIN; NBLA00301	
NBN	Nibrin	AT-V1, AT-V2, ATV, NBS, NBS1, P95	
NBPF10	Neuroblastoma breakpoint family, member 10	RP11-458D21.4, AB6, AG1, NBPF9	
NBPF11	Neuroblastoma breakpoint family, member 11	RP11-94I2.2, NBPF24	
NBPF14	Neuroblastoma breakpoint family, member 14	RP3-328E19.1, DJ328E19.C1.1, NBPF	
NBPF15	Neuroblastoma breakpoint family, member 15	RP11-763B22.1, AB14, AG3, NBPF16	
NBPF16	Neuroblastoma breakpoint family, member 16	AG3	
NBPF22P	Neuroblastoma breakpoint family, member 22, pseudogene		
NBPF3	Neuroblastoma breakpoint family, member 3	RP11-293F5.5, AE2	
NBPF4	Neuroblastoma breakpoint family, member 4	RP11-483I13.1	
NBPF5	Neuroblastoma breakpoint family, member 5	DKFZp434D177-like, RP11-242D10.1	
NBPF8	Neuroblastoma breakpoint family, member 8	RP3-377D14.1P, NBPF8	
NBR1	Neighbor of BRCA1 gene 1	MIG19, 1A1-3B, IAI3B, M17S2	

NBR2	Neighbor of BRCA1 gene 2 (non-protein coding)	NCRNA00192	
NCALD	Neurocalcin delta		
NCAM1	Neural cell adhesion molecule 1	CD56, MSK39, NCAM	
NCAPG	Non-SMC condensin I complex, subunit G	CAPG, CHCG, NY-MEL-3, YCG1	
NCAPG2	Non-SMC condensin II complex, subunit G2	tcag7.1258, CAP-G2, CAPG2, LUZP5, MTB, hCAP-G2	
NCAPH	Non-SMC condensin I complex, subunit H	BRRN1, CAP-H	
NCAPH2	Non-SMC condensin II complex, subunit H2		
NCBP1	Nuclear cap binding protein subunit 1, 80 kDa	RP11-546O6.1, CBP80, NCBP, Sto1	
NCBP2	Nuclear cap binding protein subunit 2, 20 kDa	PIG55, CBC2, CBP20, NIP1	
NCCRP1	Non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	FBXO50, NCCRP-1	
NCEH1	Neutral cholesterol ester hydrolase 1	AADACL1, NCEH	
NCK2	NCK adaptor protein 2	GRB4, NCKbeta	
NCKAP5	NCK-associated protein 5	ERIH1, ERIH2, NAP5	
NCKIPSD	NCK interacting protein with SH3 domain	AF3P21, DIP, DIP1, ORP1, SPIN90, VIP54, WASLBP, WISH	
NCL	Nucleolin	C23	
NCOA1	Nuclear receptor coactivator 1	F-SRC-1, KAT13A, RIP160, SRC1, bHLHe42, bHLHe74	√
NCOA2	Nuclear receptor coactivator 2	GRIP1, KAT13C, NCoA-2, SRC2, TIF2, bHLHe75	√
NCOA3	Nuclear receptor coactivator 3	KPS-1049G16.3, ACTR, AIB-1, AIB1, CAGH16, CTG26, KAT12B, RAC3, SRC-3, SRC3, TNRC14	
NCOA6	Nuclear receptor coactivator 6	KPS-1181N3.2, AIB3, ASC2, NRC, PRIP, RAP250, TPRP	
NCOA7	Nuclear receptor coactivator 7	RP1-187J11.1, ERAP140, ESNA1-A3, Nbla00052, Nbla10992, TLDC4, dJ187J11.2, NCOA7	
NCOR1	Nuclear receptor corepressor 1	N-CoR, N-CoR1, PPP1R109, TRAC1, hN-CoR	
NCR2	Natural cytotoxicity triggering receptor 2	RP1-149M18.2, CD336, LY95, NK-p44, NKP44, dJ149M18.1	
NCRNA00051			
NCRNA00085	Sperm acrosome associated 6, pseudogene	LINC00085, NCRNA00085, SPACA6,SPACA6P	
NCRNA00086			
NCRNA00094			
NCRNA00095			
NCRNA00103			
NCRNA00107			
NCRNA00119			
NCRNA00120			
NCRNA00171			
NCRNA00173			

NCRNA00176			
NCRNA00181			
NCRNA00183			
NCRNA00189			
NCRNA00203			
NCRNA00204B			
NCRNA00222			
NCRNA00236			
NCS1	Neuronal calcium sensor 1	FLUP, FREQ	
NDEL1	NudE neurodevelopment protein 1-like 1	EOPA, MITAP1, NDE1L1, NDE2, NUDEL	
NDFIP2	Nedd4 family interacting protein 2	N4WBP5A	
NDRG2	NDRG family member 2	SYLD	
NDRG3	NDRG family member 3	RP3-460J8.1	
NDRG4	NDRG family member 4	BDM1, SMAP-8, SMAP8	
NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2	HSST2, NST2	
NDUFA10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42 kDa	CI-42KD, CI-42k	
NDUFA4	NDUFA4, mitochondrial complex associated	CI-9k, CI-MLRQ, MLRQ	
NDUFA5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	B13, CI-13KD-B, CI-13kB, NUFM, UQOR13	
NDUFA7	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5 kDa	B14.5a	
NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8 kDa	ACP, FASN2A, SDAP	
NDUFAF2	NADH dehydrogenase (ubiquinone) complex I, assembly factor 2	B17.2L, MMTN, NDUFA12L, mimitin	
NDUFAF3	NADH dehydrogenase (ubiquinone) complex I, assembly factor 3	2P1, C3orf60, E3-3	
NDUFB1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7 kDa	CI-MNLL, CI-SGDH, MNLL	
NDUFB5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16 kDa	CISGDH, SGDH	
NDUFS3	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30 kDa	CI-30	
NEAT1	Nuclear paraspeckle assembly transcript 1 (non-protein coding)	LINC00084, NCRNA00084, TncRNA, VINC	
NEB	Nebulin	NEB177D, NEM2	
NEBL	Nebulette	RP11-56H7.1, LASP2, LNEBL	
NECAB1	N-terminal EF-hand calcium binding protein 1	EFCBP1, STIP-1	
NEDD4	Neural precursor cell expressed, developmentally down-regulated 4, E3	PIG53-1, RPF1, NEDD4	
NEDD4L	Neural precursor cell expressed, developmentally down-regulated 4-like, E3	NEDD4-2, NEDD4.2, RSP5, hNEDD4-2	
NEFH	Neurofilament, heavy polypeptide	NFH	
NEGR1	Neuronal growth regulator 1	UNQ2433, DMML2433, IGLON4, KILON, Ntra	

NEK1	NIMA-related kinase 1	NY-REN-55, SRPS2, SRPS2A, SRTD6	
NEK11	NIMA-related kinase 11		
NEK4	NIMA-related kinase 4	NRK2, STK2, pp12301	
NEK7	NIMA-related kinase 7		
NEK9	NIMA-related kinase 9	NERCC, NERCC1, Nek8	
NELL1	NEL-like 1 (chicken)	IDH3GL, NRP1	
NELL2	NEL-like 2 (chicken)	NRP2	
NEO1	Neogenin 1	IGDCC2, NGN, NTN1R2	
NET1	Neuroepithelial cell transforming 1	RP11-116G8.1, ARHGEF8A, NET1	
NETO1	Neuropilin (NRP) and tolloid (TLL)-like 1	RP11-713C5.1, BCTL1, BTCL1	
NEURL1B	Neuralized E3 ubiquitin protein ligase 1B	NEURL3, hNeur2, neur2	
NEUROD1	Neuronal differentiation 1	BETA2, BHF-1, MODY6, NEUROD, bHLHa3	
NEUROG2	Neurogenin 2	Atoh4, Math4A, NGN2, bHLHa8, ngn-2	
NEXN	Nexilin (F actin binding protein)	CMH20, NELIN	
NF1	Neurofibromin 1	NFNS, VRNF, WSS	√
NF2	Neurofibromin 2 (merlin)	ACN, BANF, SCH	√
NFAM1	NFAT activating protein with ITAM motif 1	CTA-126B4.4, CNAIP, bK126B4.4	
NFASC	Neurofascin	RP11-494K3.1, NF, NRCAML	
NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive	RP11-511C24.1, NF-AT5, NFATL1, NFAT4, OREBP, TONEBP	
NFATC1	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	NF-ATC, NFAT2, NFATc	
NFATC2IP	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	ESC2, NIP45, RAD60	
NFATC4	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	NF-AT3, NF-ATC4, NFAT3	
NFE2L2	Nuclear factor, erythroid 2-like 2	NRF2	√
NFIA	Nuclear factor I/A	RP5-902P15.1, CTF, NF-I/A, NF1-A, NFI-A, NFI-L	
NFIB	Nuclear factor I/B	RP11-280O24.2, CTF, HMGIC/NFIB, NF-I/B, NF1-B, NFI-B, NFI-BED2, NFIB2, NFIB	√
NFKBIZ	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	IKBZ, INAP, MAIL	
NFXL1	Nuclear transcription factor, X-box binding-like 1	CDZFP, HOZFP, OZFP, URCC5	
NFYA	Nuclear transcription factor Y, alpha	CBF-A, CBF-B, HAP2, NF-YA	
NFYB	Nuclear transcription factor Y, beta	CBF-A, CBF-B, HAP3, NF-YB	
NFYC	Nuclear transcription factor Y, gamma	RP5-1066H13.1, CBF-C, CBFC, HAP5, H5M, NF-YC	
NGEF	Neuronal guanine nucleotide exchange factor	ARHGEF27, EPHEXIN	
NHLRC1	NHL repeat containing E3 ubiquitin protein ligase 1	EPM2A, EPM2B, MALIN, bA204B7.2	
NHLRC2	NHL repeat containing 2	1200003G01Rik, AI835049, AV002846, AW496455	

NHLRC3	NHL repeat containing 3	RP11-50D16.3	
NHP2	NHP2 ribonucleoprotein	HSPC286, DKCB2P, NOLA2, NHP2	
NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)	RP3-389A20.6, CTRCT40, CXN, SCML1	
NHSL1	NHS-like 1	C6orf63	
NICN1	Nicolin 1		
NID1	Nidogen 1	NID	
NID2	Nidogen 2 (osteonidogen)	NID-2	
NIN	Ninein (GSK3B interacting protein)	SCKL7	√
NINL	Ninein-like	RP4-691N24.1, NLP, dJ691N24.1	
NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	FSP3, SPG6	
NIPA2	Non imprinted in Prader-Willi/Angelman syndrome 2		
NIPAL2	NIPA-like domain containing 2	NPAL2	
NIPAL3	NIPA-like domain containing 3	RP3-462O23.3, DJ462O23.2, NPAL3	
NIPAL4	NIPA-like domain containing 4	ARCI6, ICHTHYIN, ICHYN	
NIPBL	Nipped-B homolog (Drosophila)	CDLS, CDLS1, IDN3, IDN3-B, Scc2	
NIPSNAP3B	Nipsnap homolog 3B (C. elegans)	NIPSNAP3	
NISCH	Nischarin	I-1, IR1, IRAS, hIRAS	
NKAIN2	Na+/K+ transporting ATPase interacting 2	RP1-305A19.1, FAM77B, NKAIP2, TCBA, TCBA1	
NKIRAS1	NFKB inhibitor interacting Ras-like 1	KBRAS1, kappaB-Ras1	
NKRF	NFKB repressing factor	ITBA4, NRF	
NKTR	Natural killer cell triggering receptor	p104	
NKX2-2	NK2 homeobox 2	NKX2.2, NKX2B	
NKX2-4	NK2 homeobox 4	RP11-227D2.4, NKX2.4, NKX2D	
NKX3-2	NK3 homeobox 2	BAPX1, NKX3.2, NKX3B, SMMD	
NLE1	Notchless homolog 1 (Drosophila)	HUSSY-07, Nle	
NLGN1	Neuroligin 1	NL1	
NLGN2	Neuroligin 2		
NLGN4X	Neuroligin 4, X-linked	UNQ365/PRO701, ASPGX2, AUTSX2, HLNX, HNL4X, NLGN4	
NLGN4Y	Neuroligin 4, Y-linked		
NLK	Nemo-like kinase		
NLN	Neurolysin (metallopeptidase M3 family)	AGTBP, EP24.16, MEP, MOP	
NLRC5	NLR family, CARD domain containing 5	CLR16.1, NOD27, NOD4	
NLRP1	NLR family, pyrin domain containing 1	CARD7, CIDED, CLR17.1, DEFCAP, DEFCAP-L/S, NAC, NALP1, PP1044, SLEV1, VAMAS1	

NLRP8	NLR family, pyrin domain containing 8	CLR19.2, NALP8, NOD16, PAN4	
NLRP9	NLR family, pyrin domain containing 9	CLR19.1, NALP9, NOD6, PAN12	
NMD3	NMD3 ribosome export adaptor	CGI-07	
NME4	NME/NM23 nucleoside diphosphate kinase 4	Z97634.4-011, NDPK-D, NM23H4, nm23-H4	
NME6	NME/NM23 nucleoside diphosphate kinase 6	IPIA-ALPHA, NDK 6, NM23-H6	
NME7	NME/NM23 nucleoside diphosphate kinase 7	CFAP67, MN23H7, NDK 7, NDK7, nm23-H7	
NMI	N-myc (and STAT) interactor		
NMNAT2	Nicotinamide nucleotide adenylyltransferase 2	RP11-181K3.3, C1orf15, PNAT2	
NMT1	N-myristoyltransferase 1	NMT	
NMT2	N-myristoyltransferase 2	RP11-455B2.2	
NNAT	Neuronatin	Peg5	
NNT	Nicotinamide nucleotide transhydrogenase	hCG_17428, GCCD4	
NOC3L	Nucleolar complex associated 3 homolog (S. cerevisiae)	AD24, C10orf117, FAD24	
NOD1	Nucleotide-binding oligomerization domain containing 1	CARD4, CLR7.1, NLRC1	
NOD2	Nucleotide-binding oligomerization domain containing 2	ACUG, BLAU, CARD15, CD, CLR16.3, IBD1, NLRC2B, PSORAS1, NOD2	
NOG	Noggin	SYM1, SYNS1	
NOL4	Nucleolar protein 4	HRIHFB2255, CT125, NOLP	
NOL8	Nucleolar protein 8	RP11-62C3.9, C9orf34, NOP132, bA62C3.3, bA62C3.4	
NOL9	Nucleolar protein 9	Grc3, NET6	
NOLC1	Nucleolar and coiled-body phosphoprotein 1	NOPP130, NOPP140, NS5ATP13, P130	
NOM1	Nucleolar protein with MIF4G domain 1	C7orf3, PPP1R113, SGD1	
NOMO1	NODAL modulator 1	Nomo, PM5	
NOMO2	NODAL modulator 2	Nomo, PM5	
NOMO3	NODAL modulator 3	Nomo	
NOP58	NOP58 ribonucleoprotein	HSPC120, NOP5, NOP5/NOP58	
NOS1	Nitric oxide synthase 1 (neuronal)	IHPS1, N-NOS, NC-NOS, NOS, bNOS, nNOS	
NOS1AP	Nitric oxide synthase 1 (neuronal) adaptor protein	6330408P19Rik, CAPON	
NOS3	Nitric oxide synthase 3 (endothelial cell)	ECNOS, eNOS	
NOTCH2	Notch 2	AGS2, HJCYS, hN2	√
NOTCH2NL	Notch 2 N-terminal like	N2N	
NOTCH3	Notch 3	CADASIL, CASIL, IMF2	
NOTCH4	Notch 4	DAQB-143M3.4, INT3	
NOTUM	Notum pectinacetylesterase homolog (Drosophila)	OK/SW-CL.30	

NOV	Nephroblastoma overexpressed	CCN3, IBP-9, IGFBP-9, IGFBP9h, NOV	
NOVA1	Neuro-oncological ventral antigen 1	Nova-1	
NOX1	NADPH oxidase 1	RP1-146H21.1, GP91-2, MOX1, NOH-1, NOH1	
NOX4	NADPH oxidase 4	KOX, KOX-1, RENOX	
NOX5	NADPH oxidase, EF-hand calcium binding domain 5		
NPAS3	Neuronal PAS domain protein 3	MOP6, PASD6, bHLHe12	
NPAT	Nuclear protein, ataxia-telangiectasia locus	E14, E14/NPAT, p220	
NPC1	Niemann-Pick disease, type C1	NPC	
NPEPL1	Aminopeptidase-like 1	RP11-261P9.1, bA261P9.2	
NPEPPS	Aminopeptidase puromycin sensitive	AAP-S, MP100, PSA	
NPFFR2	Neuropeptide FF receptor 2	GPR74, HLWAR77, NPFF2, NPGPR	
NPIPL3	Nuclear pore complex interacting protein family, member B2		
NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)	B23, NPM	√
NPR3	Natriuretic peptide receptor 3	hCG_1781939, ANP-C, ANPR-C, ANPRC, C56H23, CUCV3P, NPR-C, NPRC	
NPRL3	Nitrogen permease regulator-like 3 (S. cerevisiae)	Z69666.1-003, C16orf35, CGI-HBA, H3-40, MAKL, NPR3, RMD11	
NPTN	Neuroplastin	GP55, GP65, SDFR1, SDR1, np55, np65	
NPTXR	Neuronal pentraxin receptor	NPR	
NR_027144			
NR1D2	Nuclear receptor subfamily 1, group D, member 2	BD73, EAR-1R, RVR	
NR1H4	Nuclear receptor subfamily 1, group H, member 4	BAR, FXR, HRR-1, HRR1, RIP14	
NR1I3	Nuclear receptor subfamily 1, group I, member 3	CAR, CAR1, MB67	
NR2C2	Nuclear receptor subfamily 2, group C, member 2	TAK1, TR4	
NR2E1	Nuclear receptor subfamily 2, group E, member 1	RP3-429G5.1, TLL, TLX, XTLL	
NR2F2	Nuclear receptor subfamily 2, group F, member 2	ARP1, CHTD4, COUPTFB, COUPTFII, NF-E3, NR2F1, SVP40, TFCOUP2	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	GCCR, GCR, GCRST, GR, GRL	
NR3C2	Nuclear receptor subfamily 3, group C, member 2	MCR, MLR, MRVIT, NR3C2	
NR4A2	Nuclear receptor subfamily 4, group A, member 2	HZF-3, NOT, NURR1, RNR1, TINUR	
NR4A3	Nuclear receptor subfamily 4, group A, member 3	RP11-60I3.3, CHN, CSMF, MINOR, NOR1, TEC	√
NR5A1	Nuclear receptor subfamily 5, group A, member 1	RP11-101K10.1, AD4BP, ELP, FTZ1, FTZF1, POF7, SF-1, SF1, SPGF8, SPXY2	
NR6A1	Nuclear receptor subfamily 6, group A, member 1	CT150, GCNF, GCNF1, NR61, RTR, hGCNF, hRTR	
NRAS	Neuroblastoma RAS viral (v-ras) oncogene homolog	RP5-1000E10.2, ALPS4, CMNS, N-ras, NCMS1, NS6, NRAS	√
NRCAM	Neuronal cell adhesion molecule		
NRF1	Nuclear respiratory factor 1	ALPHA-PAL	

NRG1	Neuregulin 1	ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, MST131, MSTP131, NDF, IT2, SMDF, NRG1	
NRGN	Neurogranin (protein kinase C substrate, RC2)	RC3, hng	
NRIP1	Nuclear receptor interacting protein 1	RIP140	
NRIP2	Nuclear receptor interacting protein 2		
NRIP3	Nuclear receptor interacting protein 3	C11orf14, NY-SAR-105	
NRK	Nik related kinase	RP1-82J11.1, NESK	
NRP1	Neuropilin 1	RP11-342D11.1, BDCA4, CD304, NP1, NRP, VEGF165R	
NRSN1	Neurensin 1	RP11-176J5.1, VMP, p24	
NRSN2	Neurensin 2	RP5-1103G7.8, C20orf98, dJ1103G7.6	
NRXN1	Neurexin 1	Hs.22998, PTHSL2, SCZD17	
NRXN3	Neurexin 3	C14orf60	
NSD1	Nuclear receptor binding SET domain protein 1	ARA267, KMT3B, SOTOS, SOTOS1, STO	√
NSF	N-ethylmaleimide-sensitive factor	SKD2	
NSL1	NSL1, MIS12 kinetochore complex component	DC8, C1orf48, MIS14	
NSMAF	Neutral sphingomyelinase (N-SMase) activation associated factor	FAN	
NSUN3	NOP2/Sun domain family, member 3	MSTP077, MST077	
NSUN7	NOP2/Sun domain family, member 7		
NT5C1B	5'-Nucleotidase, cytosolic IB	FKSG85, AIRP, CN-IB, CN1B	
NT5C2	5'-Nucleotidase, cytosolic II	RP11-30H12.3, GMP, NT5B, PNT5, SPG45, SPG65, cN-II	√
NT5DC1	5'-Nucleotidase domain containing 1	RP3-486I3.1, C6orf200, LP2642, NT5C2L1	
NT5DC3	5'-Nucleotidase domain containing 3	TU12B1-TY, TU12B1TY	
NT5E	5'-Nucleotidase, ecto (CD73)	RP11-321N4.1, CALJA, CD73, E5NT, NT, NT5, NTE, eN, eNT	
NTM	Neurotrimin	UNQ297/PRO337, HNT, IGLON2, NTRI	
NTNG1	Netrin G1	UNQ571/PRO1133, Lmnt1	
NTRK2	Neurotrophic tyrosine kinase, receptor, type 2	RP11-263K15.1, GP145-TrkB, TRKB, trk-B	
NTS	Neurotensin	NMN-125, NN, NT, NT/N1, NTS	
NTSR1	Neurotensin receptor 1 (high affinity)	NTR	
NUAK2	NUAK family, SNF1-like kinase, 2	SNARK	
NUB1	Negative regulator of ubiquitin-like proteins 1	BS4L, NYREN18, NUB1	
NUBP1	Nucleotide binding protein 1	NBP, NBP1, NBP35	
NUBPL	Nucleotide binding protein-like	C14orf127, IND1, huInd1	
NUCB2	Nucleobindin 2	HEL-S-109, NEF	
NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	JC7, NUCKS	

NUDCD3	NudC domain containing 3	hCG_18301, NudCL	
NUDT10	Nudix (nucleoside diphosphate linked moiety X)-type motif 10	RP11-348F1.4, APS2, DIPP3a, hDIPP3alpha	
NUDT12	Nudix (nucleoside diphosphate linked moiety X)-type motif 12		
NUDT13	Nudix (nucleoside diphosphate linked moiety X)-type motif 13	RP11-152N13.13-004	
NUDT16	Nudix (nucleoside diphosphate linked moiety X)-type motif 16		
NUDT16L1	Nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1	SDOS	
NUDT16P1	Nudix (nucleoside diphosphate linked moiety X)-type motif 16 pseudogene 1	NUDT16P	
NUDT18	Nudix (nucleoside diphosphate linked moiety X)-type motif 18	MTH3	
NUDT19	Nudix (nucleoside diphosphate linked moiety X)-type motif 19	RP2	
NUDT21	Nudix (nucleoside diphosphate linked moiety X)-type motif 21	CFIM25, CPSF5	
NUDT4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4	HDCMB47P, DIPP2, DIPP2alpha, DIPP2beta	
NUDT4P1	Nudix (nucleoside diphosphate linked moiety X)-type motif 4 pseudogene 1		
NUFIP1	Nuclear fragile X mental retardation protein interacting protein 1	NUFIP, bA540M5.1	
NUFIP2	Nuclear fragile X mental retardation protein interacting protein 2	PIG1, 182-FIP, 82-FIP, FIP-82	
NUP153	Nucleoporin 153 kDa	HNUP153, N153	
NUP160	Nucleoporin 160 kDa		
NUP50	Nucleoporin 50 kDa	CTA-268H5.7, NPAP60, NPAP60L	
NUP98	Nucleoporin 98 kDa	ADIR2, NUP196, NUP96	√
NUPL2	Nucleoporin like 2	CG1, NLP-1, NLP_1, hCG1	
NUS1	Nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae)	C6orf68, MGC:7199, NgBR, TANGO14	
NWD1	NACHT and WD repeat domain containing 1	A230063L24Rik	
NXF4	Nuclear RNA export factor 4 pseudogene		
NXPH1	Neurexophilin 1	Nbla00697, NPH1	
NXPH2	Neurexophilin 2	NPH2	
NXT2	Nuclear transport factor 2-like export factor 2	RP4-596C15.2, P15-2	
OAS2	2'-5'-Oligoadenylate synthetase 2, 69/71 kDa		
OAT	Ornithine aminotransferase	GACR, HOGAASE, OKT, OAT	
OAZ1	Ornithine decarboxylase antizyme 1	AZI, OAZ	
OBFC1	Oligonucleotide/oligosaccharide-binding fold containing 1	RP11-341N10.2, AAF-44, AAF44, RPA-32, STN1, bA541N10.2	
OBFC2A	Oligonucleotide/oligosaccharide-binding fold containing 2A	EGK_04635	
OBSCN	Obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	RP5-1139B12.1, ARHGEF30, UNC89	
OCA2	Oculocutaneous albinism II	BEY, BEY1, BEY2, BOCA, D15S12, EYCL, EYCL2, EYCL3, HCL3, P, PED, SHEP1	
OCIAD1	OCIA domain containing 1	ASRIJ, OCIA, TPA018	

ODC1	Ornithine decarboxylase 1	ODC	
ODF2L	Outer dense fiber of sperm tails 2-like	RP5-977L11.1, dJ977L11.1	
ODZ1	Odz, odd Oz/ten-m homolog 1 (Drosophila)	BOS_25167	
ODZ3	Odz (odd Oz/ten-m, Drosophila) homolog 3		
ODZ4	Odz, odd Oz/ten-m homolog 4 (Drosophila)	BOS_24429	
OGFRL1	Opioid growth factor receptor-like 1	dJ331H24.1	
OGN	Osteoglycin	OG, OIF, SLRR3A	
OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	HRNT1, O-GLCNAC	
OIT3	oncoprotein induced transcript 3	UNQ826/PRO1753, LZP	
OLFM1	Olfactomedin 1	RP11-399H11.1, AMY, NOE1, NOELIN1, OlfA	
OLFM3	Olfactomedin 3	RP11-556K13.2, NOE3, NOELIN3, OPTIMEDIN	
OLFML2A	Olfactomedin-like 2A	RP11-175D17.4, PRO34319	
OMA1	OMA1 zinc metallopeptidase	2010001O09Rik, DAB1, MPRP-1, YKR087C, ZMPOMA1, peptidase	
ONECUT2	One cut homeobox 2	OC-2, OC2	
OPA3	Optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)	MGA3	
OPHN1	Oligophrenin 1	RP6-201G10.1, ARHGAP41, MRX60, OPN1	
OPN5	Opsin 5	GPR136, GRP136, PGR12, TMEM13	
OPRK1	Opioid receptor, kappa 1	K-OR-1, KOR, KOR-1, OPRK	
OPRM1	Opioid receptor, mu 1	LMOR, M-OR-1, MOP, MOR, MOR1, OPRM	
OR12D3	Olfactory receptor, family 12, subfamily D, member 3	DADB-136A24.10-001, hs6M1-27	
OR1J2	Olfactory receptor, family 1, subfamily J, member 2	RP11-342K23.4, HG152, HSA5, OR1J3, OR1J5, OR9-10, OST044	
OR51E1	Olfactory receptor, family 51, subfamily E, member 1	D-GPCR, DGPCR, GPR150, GPR164P, OR52A3P, PSGR, PSGR2, OR51E1	
OR51E2	Olfactory receptor, family 51, subfamily E, member 2	hCG_2044604, OR51E3P, OR52A2, PSGR	
OR6W1P	Olfactory receptor, family 6, subfamily W, member 1 pseudogene	OR6W1, sdolf	
OR7E91P	Olfactory receptor, family 7, subfamily E, member 91 pseudogene		
ORAI2	ORAI calcium release-activated calcium modulator 2	PP1729, C7orf19, CBCIP2, MEM142B, TMEM142B	
ORAOV1	Oral cancer overexpressed 1	TAOS	
ORC1L	Origin recognition complex, subunit 1	BOS_3528ORC1L	
ORC3L	Origin recognition complex, subunit 3	RP3-486L4.1, LAT, LATHEOL, ORC3	
ORC4L	Origin recognition complex, subunit 4	ORC4LP, ORC4	
ORMDL1	ORMDL sphingolipid biosynthesis regulator 1	HSPC202	
ORMDL3	ORMDL sphingolipid biosynthesis regulator 3		
OSBP2	Oxysterol binding protein 2	RP3-430N8.7, HLM, ORP-4, ORP4, OSBPL1, OSBPL4	

OSBPL10	Oxysterol binding protein-like 10	ORP10, OSBP9	
OSBPL11	Oxysterol binding protein-like 11	ORP-11, ORP11, OSBP12, TCCCIA00292	
OSBPL1A	Oxysterol binding protein-like 1A	ORP-1, ORP1, OSBPL1B	
OSBPL2	Oxysterol binding protein-like 2	RP11-157P1.2, ORP-2, ORP2	
OSBPL3	Oxysterol binding protein-like 3	ORP-3, ORP3, OSBP3	
OSBPL6	Oxysterol binding protein-like 6	ORP6	
OSBPL8	Oxysterol binding protein-like 8	MST120, MSTP120, ORP8, OSBP10	
OSGIN2	Oxidative stress induced growth inhibitor family member 2	C8orf1, hT41	
OSTF1	Osteoclast stimulating factor 1	OSF, SH3P2, bA235O14.1	
OSTM1	Osteopetrosis associated transmembrane protein 1	HSPC019, GIPN, GL, OPTB5	
OTUB2	OTU deubiquitinase, ubiquitin aldehyde binding 2	C14orf137, OTB2, OTU2	
OTUD1	OTU deubiquitinase 1	DUBA7, OTDC1	
OTUD3	OTU deubiquitinase 3	RP11-460G22.1, DUB	
OTUD4	OTU deubiquitinase 4	DUBA6, HIN1, HSHIN1	
OTUD6B	OTU domain containing 6B	CGI-77, DUBA-5, DUBA5	
OTUD7A	OTU deubiquitinase 7A	C15orf16, C16ORF15, CEZANNE2, OTUD7	
OTX2OS1	Orthodenticle homolog 2 opposite strand 1	RP23-131O4.2	
OVOS	Ovostatin		
OXCT1	3-Oxoacid CoA transferase 1	OXCT, SCOT	
OXGR1	Oxoglutarate (alpha-ketoglutarate) receptor 1	GPR80, GPR99, P2RY15, P2Y15, aKGR	
OXNAD1	Oxidoreductase NAD-binding domain containing 1		
OXNAD1	Oxidoreductase NAD-binding domain containing 1		
P2RX7	Purinergic receptor P2X, ligand-gated ion channel, 7	P2X7	
P4HA2	Prolyl 4-hydroxylase, alpha polypeptide II	UNQ290/PRO330	
P4HA3	Prolyl 4-hydroxylase, alpha polypeptide III	UNQ711/PRO1374	
PAAF1	Proteasomal ATPase-associated factor 1	PAAF, Rpn14, WDR71	
PABPC1	Poly(A) binding protein, cytoplasmic 1	PAB1, PABP, PABP1, PABPC2, PABPL1	
PABPC1L2B	Poly(A) binding protein, cytoplasmic 1-like 2B	RP11-493K23.2, RBM32B	
PABPC1P2	Poly(A) binding protein, cytoplasmic 1 pseudogene		
PABPC4L	Poly(A) binding protein, cytoplasmic 4-like	hCG_1647909	
PABPC5	Poly(A) binding protein, cytoplasmic 5	5	
PACRGL	PARK2 co-regulated-like	C4orf28	
PACS2	Phosphofurin acidic cluster sorting protein 2	PACS-2, PACS1L	

PADI1	Peptidyl arginine deiminase, type I	HPAD10, PAD1, PDI, PDI1	
PAFAH1B1	Platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45 kDa)	LIS1, LIS2, MDCR, MDS, PAFAH	
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)	HEL-S-303	√
PAFAH2	Platelet-activating factor acetylhydrolase 2, 40 kDa	RP11-111D20.1, HSD-PLA2	
PAG1	Phosphoprotein membrane anchor with glycosphingolipid microdomains 1	CBP, PAG	
PAH	Phenylalanine hydroxylase	PH, PKU, PKU1	
PAK2	P21 protein (Cdc42/Rac)-activated kinase 2	PAK65, PAKgam	
PAK4	P21 protein (Cdc42/Rac)-activated kinase 4		
PAK6	P21 protein (Cdc42/Rac)-activated kinase 6	PAK5	
PAK7	P21 protein (Cdc42/Rac)-activated kinase 7	RP5-1119D9.3, PAK5	
PALLD	Palladin, cytoskeletal associated protein	CGI-151, CGI151, MYN, PNCA1, SIH002	
PALM2	Paralemmin 2	AKAP2	
PALM2-AKAP2	PALM2-AKAP2 readthrough	hCG_28765, AKAP2	
PAM	Peptidylglycine alpha-amidating monooxygenase		
PAN3	Pan3p	YKL025CECM35	
PANK1	Pantothenate kinase 1	PANK	
PANK2	Pantothenate kinase 2	RP4-681N20.1, C20orf48, HARP, HSS, NBIA1, PKAN	
PANK3	Pantothenate kinase 3		
PANK4	Pantothenate kinase 4	RP3-395M20.4	
PANX1	Pannexin 1	px1	
PAPD4	PAP associated domain containing 4	GLD2, TUT2	
PAPD5	PAP associated domain containing 5	TRF4-2	
PAPD7	PAP associated domain containing 7	LAK-1, LAK1, POLK, POL5, TRF4, TRF4-1, TRF41, TUTASE5	
PAPLN	Papilin, proteoglycan-like sulfated glycoprotein	UNQ2420/PRO4977	
PAPOLA	Poly(A) polymerase alpha	PAP	
PAPOLB	Poly(A) polymerase beta (testis specific)	PAPT, TPAP	
PAPOLG	Poly(A) polymerase gamma		
PAPPA	Pregnancy-associated plasma protein A, pappalysin 1	RP11-43A16.1, ASBABP2, DIPLA1, IGFBP-4ase, PAPA, PAPP-A1, PAPPA	
PAPPA2	Pappalysin 2	RP4-774I24.1, PAPP-A2, PAPP-E, PAPPE, PLAC3	
PAQR5	Progestin and adipoQ receptor family member V	MPRG	
PAQR9	Progestin and adipoQ receptor family member IX		
PAR1			
PARD6B	Par-6 family cell polarity regulator beta	PAR6B	

PARD6G	Par-6 family cell polarity regulator gamma		
PARG	Poly (ADP-ribose) glycohydrolase	RP11-507K13.299, PARG	
PARK2	Parkin RBR E3 ubiquitin protein ligase	KB-152G3.1, AR-JP, LPRS2, PDJ, PRKN	
PARM1	Prostate androgen-regulated mucin-like protein 1	UNQ1879/PRO4322, Cipar1, DKFZP564O0823, PARM-1, WSG4	
PARN	Poly(A)-specific ribonuclease	DAN	
PARP1	Poly (ADP-ribose) polymerase 1	RP11-125A15.2, ADPRT, ADPRT 1, ADPRT1, ARTD1, PARP, PARP-1, PPOL, pADPRT-1	
PARP11	Poly (ADP-ribose) polymerase family, member 11	ARTD11, C12orf6, MIB006	
PARP14	Poly (ADP-ribose) polymerase family, member 14	ARTD8, BAL2, PARP-14, pART8	
PARP2	Poly (ADP-ribose) polymerase 2	ARTD2, Adprt2, Adprtl2, Aspartl2, C78626, PARP-2	
PARP9	Poly (ADP-ribose) polymerase family, member 9	ARTD9, BAL, BAL1, MGC:7868	
PARVA	Parvin, alpha	CH-ILKBP, MXRA2	
PATE3	Prostate and testis expressed 3	hCG_2036778, HEL-127, PATE-DJ	
PATE4	Prostate and testis expressed 4	PATE-B	
PATL1	Protein associated with topoisomerase II homolog 1 (yeast)	OK/KNS-cl.5, Pat1b, hPat1b	
PATZ1	POZ (BTB) and AT hook containing zinc finger 1	MAZR, PATZ, RIAZ, ZBTB19, ZNF278, ZSG, dJ400N22	
PAWR	PRKC, apoptosis, WT1, regulator	PAR4, Par-4	
PAX3	Paired box 3	CDHS, HUP2, WS1, WS3	√
PAX5	Paired box 5	ALL3, BSAP	√
PAX6	Paired box 6	AN, AN2, D11S812E, FVH1, MGDA, WAGR	
PAX7	Paired box 7	HUP1B, RMS2, PAX7	√
PAX9	Paired box 9	STHAG3	
PAXIP1	PAX interacting (with transcription-activation domain) protein 1	CAGF28, CAGF29, PACIP1L, PTIP, TNRC2, PAXIP1	
PBK	PDZ binding kinase	CT84, HEL164, Nori-3, SPK, TOPK	
PBLD	Phenazine biosynthesis-like protein domain containing	MAWBP, MAWDBP	
PBRM1	Polybromo 1	BAF180, PB1	√
PBX1	Pre-B-cell leukemia homeobox 1		√
PBX2	Pre-B-cell leukemia homeobox 2	DAAP-218M18.5, G17, HOX12MHC, PBX2	
PBX3	Pre-B-cell leukemia homeobox 3	RP11-336P12.1	
PCA3	Prostate cancer associated 3 (non-protein coding)	DD3, NCRNA00019, PCAT3	
PCBD2	Pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of	DCOH2, DCOHM, PHS2	
PCBP1	Poly(rC) binding protein 1	HEL-S-85, HNRPE1, HNRPX, hnRNP-E1, hnRNP-X	
PCBP2	Poly(rC) binding protein 2	HNRNPE2, HNRPE2, hnRNP-E2	
PCCA	Propionyl CoA carboxylase, alpha polypeptide		

PCCB	Propionyl CoA carboxylase, beta polypeptide		
PCDH11X	Protocadherin 11 X-linked	RP13-138P15.1, PCDH-X, PCDH11, PCDHX, PPP1R110	
PCDH11Y	Protocadherin 11 Y-linked	PCDH-PC, PCDH22, PCDHX, PCDHY	
PCDH15	Protocadherin-related 15	RP11-449J3.2, CDHR15, DFNB23, USH1F	
PCDH17	Protocadherin 17	PCDH68, PCH68	
PCDH19	Protocadherin 19	RP11-99E24.1, EFMR, EIEE9	
PCDH20	Protocadherin 20	PCDH13	
PCDH7	Protocadherin 7	BH-Pcdh, BHPCDH, PPP1R120	
PCDHA1	Protocadherin alpha 1	PCDH-ALPHA1	
PCDHA10	Protocadherin alpha 10	CNR8, CNRN8, CNRS8, CRNR8, PCDH-ALPHA10	
PCDHA11	Protocadherin alpha 11	CNR7, CNRN7, CNRS7, CRNR7, PCDH-ALPHA11	
PCDHA12	Protocadherin alpha 12	PCDH-ALPHA12	
PCDHA13	Protocadherin alpha 13	CNR5, CNRN5, CNRS5, CRNR5, PCDH-ALPHA13	
PCDHA2	Protocadherin alpha 2	PCDH-ALPHA2	
PCDHA3	Protocadherin alpha 3	PCDH-ALPHA3	
PCDHA4	Protocadherin alpha 4	CNR1, CNRN1, CRNR1, PCDH-ALPHA4	
PCDHA5	Protocadherin alpha 5	CNR6, CNRN6, CNRS6, CRNR6, PCDH-ALPHA5	
PCDHA6	Protocadherin alpha 6	CNR2, CNRN2, CNRS2, CRNR2, PCDH-ALPHA6	
PCDHA7	Protocadherin alpha 7	CNR4, CNRN4, CNRS4, CRNR4, PCDH-ALPHA7	
PCDHA8	Protocadherin alpha 8	PCDH-ALPHA8	
PCDHA9	Protocadherin alpha 9	PCDH-ALPHA9	
PCDHAC1	Protocadherin alpha subfamily C, 1	PCDH-ALPHA-C1	
PCDHAC2	Protocadherin alpha subfamily C, 2	PCDH-ALPHA-C2	
PCDHB19P	Protocadherin beta 19 pseudogene	PCDHB19; PCDH-PSI5	
PCDHB3	Protocadherin beta 3	PCDH-BETA3	
PCDHB4	Protocadherin beta 4	PCDH-BETA4	
PCDHB6	Protocadherin beta 6	PCDH-BETA6	
PCDHB7	Protocadherin beta 7	PCDH-BETA7	
PCF11	PCF11 cleavage and polyadenylation factor subunit		
PCGF2	Polycomb group ring finger 2	MEL-18, RNF110, ZNF144	
PCGF3	Polycomb group ring finger 3	DONG1, RNF3, RNF3A	
PCGF5	Polycomb group ring finger 5	RNF159	
PCGF6	Polycomb group ring finger 6	MBLR, RNF134	

PCID2	PCI domain containing 2	RP11-98F14.6, F10	
PCLO	Piccolo presynaptic cytomatrix protein	tcag7.1085, ACZ	
PCNA	Proliferating cell nuclear antigen	ATLD2	
PCNP	PEST proteolytic signal containing nuclear protein	Ab2-416	
PCNT	Pericentrin	KEN, MOPD2, PCN2, PCNTB, PCTN2, SCKL4, PCNT	
PCNX	Pecanex homolog (Drosophila)	PCNXL1, pecanex	
PCSK1	Proprotein convertase subtilisin/kexin type 1	BMIQ12, NEC1, PC1, PC3, SPC3	
PCSK2	Proprotein convertase subtilisin/kexin type 2	NEC 2, NEC-2, NEC2, PC2, SPC2	
PCSK5	Proprotein convertase subtilisin/kexin type 5	RP11-422N19.4, PC5, PC6, PC6A, SPC6	
PCSK6	Proprotein convertase subtilisin/kexin type 6	PACE4, SPC4	
PCSK9	Proprotein convertase subtilisin/kexin type 9	PSEC0052, FH3, HCHOLA3, LDLCQ1, NARC-1, NARC1, PC9	
PCYOX1	Prenylcysteine oxidase 1	UNQ597/PRO1183, PCL1	
PCYT1B	Phosphate cytidylyltransferase 1, choline, beta	CCTB, CTB	
PDAP1	PDGFA associated protein 1	HASPP28, PAP, PAP1	
PDCD10	Programmed cell death 10	CCM3, TFAR15	
PDCD2	Programmed cell death 2	RP1-191N21.2, RP8, ZMYND7	
PDCD4	Programmed cell death 4 (neoplastic transformation inhibitor)	RP11-348N5.4, H731	
PDCD6	Programmed cell death 6	ALG-2, PEF1B	
PDCD6IP	Programmed cell death 6 interacting protein	AIP1, ALIX, DRIP4, HP95	
PDCL	Phosducin-like	RP11-465F21.2, PhLP	
PDE10A	Phosphodiesterase 10A	HSPDE10A	
PDE11A	Phosphodiesterase 11A	PPNAD2	
PDE12	Phosphodiesterase 12	2'-PDE	
PDE1B	Phosphodiesterase 1B, calmodulin-dependent	PDE1B1, PDES1B	
PDE2A	Phosphodiesterase 2A, cGMP-stimulated	CGS-PDE1, PED2A4, cGSPDE, PDE2A	
PDE3B	Phosphodiesterase 3B, cGMP-inhibited	HcGIP1, cGIPDE1	
PDE4B	Phosphodiesterase 4B, cAMP-specific	RP5-876C12.1, DPDE4, PDEIVB	
PDE4DIP	Phosphodiesterase 4D interacting protein	RP4-791M13.2, CMYA2, MMGL	√
PDE5A	Phosphodiesterase 5A, cGMP-specific	CGB-PDE, CN5A, PDE5	
PDE6D	Phosphodiesterase 6D, cGMP-specific, rod, delta	JBTS22, PDED	
PDE7A	Phosphodiesterase 7A	RP11-707M3.3, HCP1, PDE7	
PDE7B	phosphodiesterase 7B	RP11-472E5.2, bA472E5.1	
PDGFA	Platelet-derived growth factor alpha polypeptide	PDGF-A, PDGF1	

PDGFC	Platelet derived growth factor C	UNQ174/PRO200, FALLOTEIN, SCDGF	
PDGFD	Platelet derived growth factor D	MSTP036, IEGF, SCDGF-B, SCDGFB	
PDGFRA	Platelet-derived growth factor receptor, alpha polypeptide	CD140A, PDGFR-2, PDGFR2, RHEPDGFRA	√
PDGFRB	Platelet-derived growth factor receptor, beta polypeptide	CD140B, IBGC4, IMF1, JTK12, PDGFR, PDGFR-1, PDGFRB1	√
PDHA1	Pyruvate dehydrogenase (lipoamide) alpha 1	RP11-723P2.1, PDHA, PDHCE1A, PHE1A	
PDHA2	Pyruvate dehydrogenase (lipoamide) alpha 2	hCG_1643458, PDHAL	
PDHX	Pyruvate dehydrogenase complex, component X	DLDBP, E3BP, OPDX, PDX1, proX	
PDIA5	Protein disulfide isomerase family A, member 5	PDIR	
PDIA6	Protein disulfide isomerase family A, member 6	ERP5, P5, TXNDC7	
PDIK1L	PDLIM1 interacting kinase 1 like	RP11-96L14.4, CLIK1L, STK35L2	
PDK1	Pyruvate dehydrogenase kinase, isozyme 1		
PDK4	Pyruvate dehydrogenase kinase, isozyme 4		
PDLIM2	PDZ and LIM domain 2 (mystique)	PP6345, MYSTIQUE, SLIM	
PDLIM5	PDZ and LIM domain 5	L9, ENH, ENH1, LIM	
PDP1	Pyruvate dehydrogenase phosphatase catalytic subunit 1	PDH, PDP, PDPC, PPM2C	
PDPK1	3-Phosphoinositide dependent protein kinase 1	PDK1, PDPK2, PRO0461	
PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	PIG54, SCC-112, SCC112	
PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	RP1-267P19.1, APRIN, AS3, CG008	
PDSS2	Prenyl (decaprenyl) diphosphate synthase, subunit 2	RP11-391J9.3, C6orf210, COQ10D3, DLP1, bA391J9.3, hDLP1	
PDXDC1	Pyridoxal-dependent decarboxylase domain containing 1	LP8165	
PDXK	Pyridoxal (pyridoxine, vitamin B6) kinase	PRED79, C21orf124, C21orf97, HEL-S-1a, PKH, PNK	
PDZD11	PDZ domain containing 11	RP13-26D14.3, AIPP1, PDZK11, PISP	
PDZRN3	PDZ domain containing ring finger 3	LNX3, SEMACAP3	
PEBP1	Phosphatidylethanolamine binding protein 1	HCNP, HCNPpp, HEL-210, HEL-S-34, PBP, PEBP, PEBP-1, RKIP	
PEF1	Penta-EF-hand domain containing 1	UNQ1845/PRO3573, ABP32A, PEF1	
PEG10	Paternally expressed 10	EDR, HB-1, MEF3L, Mar2, Mart2, RGAG3	
PEG3	Paternally expressed 3	hCG_1685807, PW1, ZKSCAN22, ZNF904, ZSCAN24	
PELI1	Pellino E3 ubiquitin protein ligase 1		
PELI3	Pellino E3 ubiquitin protein ligase family member 3		
PER2	Period circadian clock 2	FASPS, FASPS1	
PER3	Period circadian clock 3	RP3-467L1.3, GIG13	
PER4	Period circadian clock 3 pseudogene		
PERP	PERP, TP53 apoptosis effector	RP3-456H19.1, KCP1, KRTCAP1, PIGPC1, TTW, dJ456H19.1	

PEX1	Peroxisomal biogenesis factor 1	tcag7.1018, PBD1A, PBD1B, ZWS, ZWS1	
PEX11A	Peroxisomal biogenesis factor 11 alpha	PEX11-ALPHA, PMP28, hsPEX11p	
PEX13	Peroxisomal biogenesis factor 13	NALD, PBD11A, PBD11B, ZWS	
PEX19	Peroxisomal biogenesis factor 19	OK/SW-cl.22, D1S2225E, HK33, PBD12A, PMP1, PMPI, PXF, PYMP1	
PEX2	Peroxisomal biogenesis factor 2	PAPI, PBD3A, PBD3B, PMP3, PMP35, PXMP3, RNF72, ZWS2	
PEX3	Peroxisomal biogenesis factor 3	RP1-20N2.3, PBD10A, TRG18	
PEX5	Peroxisomal biogenesis factor 5	PBD2A, PBD2B, PTS1-BP, PTS1R, PXR1	
PEX5L	Peroxisomal biogenesis factor 5-like	PEX5R, PEX5RP, PXR2, PXR2B, TRIP8b	
PEX7	Peroxisomal biogenesis factor 7	RP11-55K22.6, PBD9B, PTS2R, RCDP1, RD	
PF4V1	Platelet factor 4 variant 1	CXCL4L1, CXCL4V1, PF4-ALT, PF4A, SCYB4V1	
PFAS	Phosphoribosylformylglycinamidine synthase	FGAMS, FGAR-AT, FGARAT, PURL	
PFKFB2	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	RP11-164O23.2, PFK-2/FBPase-2	
PFKFB3	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	RP11-298K24.3, IPFK2, PFK2	
PFKFB4	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 4		
PGAM1	Phosphoglycerate mutase 1 (brain)	RP11-452K12.8, HEL-S-35, PGAM-B, PGAMA	
PGAM4	Phosphoglycerate mutase family member 4	PGAM-B, PGAM1, PGAM3, dJ1000K24.1	
PGAP1	Post-GPI attachment to proteins 1	UNQ3024/PRO9822, Bst1, ISPD3024, MRT42, SPG67	
PGAP3	Post-GPI attachment to proteins 3	UNQ540/PRO1100, AGLA540, CAB2, PERLD1, PP1498, hGOS16	
PGBD1	PiggyBac transposable element derived 1	hucep-4, HUCEP-4, SCAND4, dJ874C20.4	
PGM2	Phosphoglucomutase 2	MSTP006	
PGM2L1	Phosphoglucomutase 2-like 1	BM32A	
PGPEP1	Pyroglutamyl-peptidase I	PAP-I, PGP, PGP-I, PGPI, Pcp	
PGPEP1L	Pyroglutamyl-peptidase I-like		
PGR	Progesterone receptor	NR3C3, PR	
PGRMC2	Progesterone receptor membrane component 2	DG6, PMBP	
PGS1	Phosphatidylglycerophosphate synthase 1		
PHACTR1	Phosphatase and actin regulator 1	RP1-257A7.1, RPEL, RPEL1, dJ257A7.2	
PHACTR2	Phosphatase and actin regulator 2	RP3-468K18.3, C6orf56	
PHACTR4	Phosphatase and actin regulator 4	RP11-442N24__A.1, PPP1R124	
PHC1	Polyhomeotic homolog 1 (Drosophila)	EDR1, HPH1, MCPH11, RAE28	
PHC3	Polyhomeotic homolog 3 (Drosophila)	EDR3, HPH3	
PHF10	PHD finger protein 10	RP11-160E12.5, BAF45A, XAP135	
PHF11	PHD finger protein 11	RP11-185C18.3, APY, BCAP, IGEL, IGER, IGHER, NY-REN-24, NYREN24	

PHF14	PHD finger protein 14		
PHF15			
PHF17			
PHF2	PHD finger protein 2	CENP-35, GRC5, JHDM1E	
PHF20	PHD finger protein 20	RP5-1121G12.1, C20orf104, GLEA2, HCA58, NZF, TDRD20A, TZP	
PHF20L1	PHD finger protein 20-like 1	CGI-72, TDRD20B	
PHF3	PHD finger protein 3	RP1-22I17.3	
PHF6	PHD finger protein 6	AC004383.6, BFLS, BORJ, CENP-31	√
PHIP	Pleckstrin homology domain interacting protein	RP11-173D14.2, BRWD2, DCAF14, WDR11, ndrp	
PHKA1	Phosphorylase kinase, alpha 1 (muscle)	PHKA	
PHLDA1	Pleckstrin homology-like domain, family A, member 1	DT1P1B11, PHRIP, TDAG51	
PHLDB2	Pleckstrin homology-like domain, family B, member 2	LL5b, LL5beta	
PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	PHLPPL	
PHOX2B	Paired-like homeobox 2b	NBLST2, NBPhox, PMX2B	√
PHTF1	Putative homeodomain transcription factor 1	RP4-730K3.2, PHTF	
PHTF2	Putative homeodomain transcription factor 2		
PHYHIPL	Phytanoyl-CoA 2-hydroxylase interacting protein-like	UNQ6309/PRO20934	
PI4K2A	Phosphatidylinositol 4-kinase type 2 alpha	RP11-548K23.6, PI4KII, PIK42A	
PI4K2B	Phosphatidylinositol 4-kinase type 2 beta	PI4KIIB, PIK42B	
PIAS3	Protein inhibitor of activated STAT, 3	ZMIZ5	
PIBF1	Progesterone immunomodulatory binding factor 1	RP11-505F3.1, C13orf24, CEP90, PIBF	
PICALM	Phosphatidylinositol binding clathrin assembl	CALM, CLTH, LAP	√
PID1	Phosphotyrosine interaction domain containing 1	HMFN2073, NYGGF4, P-CLI1, PCLI1	
PIGA	Phosphatidylinositol glycan anchor biosynthesis, class A	GPI3, MCAHS2, PIG-A, PNH1	
PIGG	Phosphatidylinositol glycan anchor biosynthesis, class G	UNQ1950/PRO4405, GPI7, LA321, PRO4405, PLGS1020	
PIGK	Phosphatidylinositol glycan anchor biosynthesis, class K	RP4-564M11.1, GPI8	
PIGW	Phosphatidylinositol glycan anchor biosynthesis, class W	Gwt1	
PIGX	Phosphatidylinositol glycan anchor biosynthesis, class X	PIG-X	
PIGY	Phosphatidylinositol glycan anchor biosynthesis, class Y	PIG-Y	
PIK3AP1	Phosphoinositide-3-kinase adaptor protein 1	RP11-34E5.3, BCAP	
PIK3C2A	Phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 alpha	CPK, PI3-K-C2(ALPHA), PI3-K-C2A	
PIK3C2G	Phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 gamma	PI3K-C2-gamma, PI3K-C2GAMMA	
PIK3C3	Phosphatidylinositol 3-kinase, catalytic subunit type 3	VPS34, hVps34	

PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	AGM7, GRB1, p85, p85-ALPHA	√
PIK3R3	Phosphoinositide-3-kinase, regulatory subunit 3 (gamma)	RP4-533D7.2, p55, p55-GAMMA	
PIK3R5	Phosphoinositide-3-kinase, regulatory subunit 5	F730038I15Rik, FOAP-2, P101-PI3K, p101	
PIN4	Protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	AL135749.5, EPVH, PAR14, PAR17	
PINX1	PIN2/TERF1 interacting, telomerase inhibitor 1	LPTL, LPTS	
PIP4K2A	Phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	RP11-501N24.1, PI5P4KA, PIP5K2A, PIP5KII-alpha, PIP5KIIA, PIPK	
PIP4K2B	Phosphatidylinositol-5-phosphate 4-kinase, type II, beta	PI5P4KB, PIP5K2B, PIP5KIIB, PIP5KIIbeta	
PIP4K2C	Phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	PIP5K2C	
PIP5K1P1	Phosphatidylinositol-4-phosphate 5-kinase, type I, pseudogene 1		
PIRT	Phosphoinositide-interacting regulator of transient receptor potential channels	hCG_1776018	
PITPNA	Phosphatidylinositol transfer protein, alpha	HEL-S-36, PI-TPalpha, PITPN, VIB1A	
PITPNB	Phosphatidylinositol transfer protein, beta	RP3-353E16.2, PI-TP-beta, PtdInsTP, VIB1B	
PITPNC1	Phosphatidylinositol transfer protein, cytoplasmic 1	M-RDGB-beta, MRDGBbeta, RDGB-BETA, RDGBB, RDGBB1	
PIWIL1	Piwi-like RNA-mediated gene silencing 1	CT80.1, HIWI, MIWI, PIWI	
PJA1	praja ring finger 1, E3 ubiquitin protein ligase	RP13-55H22.1, PRAJA1, RNF70	
PJA2	Praja ring finger 2, E3 ubiquitin protein ligase	Neurodap1, RNF131	
PKD1L2	Polycystic kidney disease 1-like 2	PC1L2	
PKD2	Polycystic kidney disease 2 (autosomal dominant)	APKD2, PC2, PKD4, Pc-2, TRPP2	
PKDCC	Protein kinase domain containing, cytoplasmic	SGK493, Vlk	
PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive)	ARPKD, FCYT, TIGM1	
PKN2	Protein kinase N2	RP5-905H10.1, PAK2, PRK2, PRKCL2, PRO2042, Pak-2, STK7	
PKNOX1	PBX/knotted 1 homeobox 1	PREP1, pkonx1c	
PKNOX2	PBX/knotted 1 homeobox 2	PREP2	
PKP2	Plakophilin 2	ARVD9	
PKP4	Plakophilin 4	p0071	
PLA2G12A	Phospholipase A2, group XIIA	FKSG38, GXII, PLA2G12, ROSSY	
PLA2G2D	Phospholipase A2, group IID	UNQ768, PLA2IID, SPLASH, sPLA2-IID, sPLA2S	
PLA2G4A	Phospholipase A2, group IVA (cytosolic, calcium-dependent)	PLA2G4, cPLA2-alpha	
PLA2G4C	Phospholipase A2, group IVC (cytosolic, calcium-independent)	CPLA2-gamma	
PLA2G5	Phospholipase A2, group V	FRFB, GV-PLA2, PLA2-10, hVPLA(2)	
PLA2R1	Phospholipase A2 receptor 1, 180 kDa	CLEC13C, PLA2-R, PLA2G1R, PLA2IR, PLA2R	
PLAC1L			
PLAC8	Placenta-specific 8	BM-004, C15, DGIC, onzin	

PLAG1	Pleiomorphic adenoma gene 1	PSA, SGPA, ZNF912	√
PLAU	Plasminogen activator, urokinase	RP11-417O11.1, ATF, BDPLT5, QPD, UPA, URK, u-PA	
PLBD2	Phospholipase B domain containing 2	P76	
PLCB1	Phospholipase C, beta 1 (phosphoinositide-specific)	KP4-654A7.1, EIEE12, PI-PLC, PLC-154, PLC-I, PLC154A, PLCB1B, PLCB1	
PLCB3	Phospholipase C, beta 3 (phosphatidylinositol-specific)		
PLCB4	Phospholipase C, beta 4	RP4-811H13.1, ARCND2, PI-PLC	
PLCD4	Phospholipase C, delta 4		
PLCG1	Phospholipase C, gamma 1	RP5-511B24.2, NCKAP3, PLC-II, PLC1, PLC148, PLCgamma1	
PLCH1	Phospholipase C, eta 1	PLCL3	
PLCL1	Phospholipase C-like 1	PLCE, PLCL, PLDL1, PPP1R127, PRIP	
PLCL2	Phospholipase C-like 2	PLCE2	
PLCXD3	Phosphatidylinositol-specific phospholipase C, X domain containing 3		
PLD1	Phospholipase D1, phosphatidylcholine-specific		
PLD5	Phospholipase D family, member 5	PLDC	
PLDN			
PLEK	Pleckstrin	P47	
PLEKHA1	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	RP11-436O19__A.1, TAPP1	
PLEKHA2	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2	TAPP2	
PLEKHA3	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	FAPP1	
PLEKHA5	Pleckstrin homology domain containing, family A member 5	PEPP-2, PEPP2	
PLEKHA6	Pleckstrin homology domain containing, family A member 6	RP11-203F10.4, PEPP-3, PEPP3	
PLEKHA8	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8	FAPP2	
PLEKHB2	Pleckstrin homology domain containing, family B (evectins) member 2	EVT2	
PLEKHG2	Pleckstrin homology domain containing, family G (with RhoGef domain) member 2	ARHGEF42, CLG	
PLEKHG4B	Pleckstrin homology domain containing, family G (with RhoGef domain) member 4B		
PLEKHH2	Pleckstrin homology domain containing, family H (with MyTH4 domain) member 2	PLEKHH1L	
PLEKHJ1	Pleckstrin homology domain containing, family J member 1	GNRPX	
PLEKHM3	Pleckstrin homology domain containing, family M, member 3	DAPR, PLEKHM1L	
PLGLA	Plasminogen-like A (pseudogene)		
PLGLB1	Plasminogen-like B1		
PLGLB2	Plasminogen-like B2		
PLK1	Polo-like kinase 1	PLK, STPK13	
PLP1	Proteolipid protein 1	GHC-698D2.1, GPM6C, HLD1, MMPL, PLP, PLP/DM20, PMD, SPG2	

PLRG1	Pleiotropic regulator 1	Cwc1, PRL1, PRP46, PRPF46, TANGO4	
PLS1	Plastin 1		
PLS3	Plastin 3	BMND18, T-plastin	
PLSCR2	Phospholipid scramblase 2		
PLSCR5	Phospholipid scramblase family, member 5		
PLVAP	Plasmalemma vesicle associated protein		
PLXDC2	Plexin domain containing 2		
PLXNA3	Plexin A3	XX-FW81657B9.3, 6.3, HSSEXGENE, PLXN3, PLXN4, XAP-6	
PLXNA4	Plexin A4	tcag7.1291, FAT2820, PLEXA4A, PLXNA4B, PRO34002, PLXNA4	
PM20D2	Peptidase M20 domain containing 2	ACY1L2, bA63L7.3	
PMAIP1	Phorbol-12-myristate-13-acetate-induced protein 1	APR, NOXA	
PMCHL1	Pro-melanin-concentrating hormone-like 1, pseudogene		
PMCHL2	Pro-melanin-concentrating hormone-like 2, pseudogene		
PML	Promyelocytic leukemia	MYL, PP8675, RNF71, TRIM19	√
PMPCB	Peptidase (mitochondrial processing) beta	Beta-MPP, MPP11, MPPB, MPPP52, P-52	
PMS1	PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	HNPCC3, PMSL1, hPMS1	√
PMS2L5	Postmeiotic segregation increased 2 pseudogene 5		
PNLIPRP1	Pancreatic lipase-related protein 1		
PNLIPRP3	Pancreatic lipase-related protein 3		
PNMA1	Paraneoplastic Ma antigen 1	MA1	
PNMA2	Paraneoplastic Ma antigen 2	MA2, MM2, RGAG2	
PNMAL1	Paraneoplastic Ma antigen family-like 1		
PNN	Pinin, desmosome associated protein	DRS, DRSP, SDK3, memA	
PNPLA1	Patatin-like phospholipase domain containing 1	RP1-50J22.1, ARCI10, dJ50J22.1	
PNPT1	Polyribonucleotide nucleotidyltransferase 1	COXPD13, DFNB70, OLD35, PNPASE, old-35	
PNRC1	Proline-rich nuclear receptor coactivator 1	RP11-63L7.5, B4-2, PNAS-145, PROL2, PRR2	
PNRC2	Proline-rich nuclear receptor coactivator 2	RP11-4M23.5	
POC1B	POC1 centriolar protein B	PIX1, TUWD12, WDR51B	
PODXL	Podocalyxin-like	Gp200, PC, PCLP, PCLP-1	
POFUT1	Protein O-fucosyltransferase 1	DDD2, FUT12, O-FUT, O-Fuc-T, O-FucT-1, OFUCT1	
POGK	Pogo transposable element with KRAB	LST003, BASS2, KRBOX2	
POLA1	Polymerase (DNA directed), alpha 1, catalytic subunit	NSX, POLA, p180	
POLDIP2	Polymerase (DNA-directed), delta interacting protein 2	HSPC017, PDIP38, POLD4, p38	

POLH	Polymerase (DNA directed), eta	RP11-22I24.1, RAD30, RAD30A, XP-V, XPV	
POLI	Polymerase (DNA directed) iota	RAD30B, RAD3OB	
POLK	Polymerase (DNA directed) kappa	DINB1, DINP, POLQ	
POLM	Polymerase (DNA directed), mu	Pol Mu, Tdt-N	
POLQ	Polymerase (DNA directed), theta	POLH, PRO0327	
POLR2D	Polymerase (RNA) II (DNA directed) polypeptide D	HSRBP4, HSRPB4, RBP4, RPB16	
POLR2K	Polymerase (RNA) II (DNA directed) polypeptide K, 7.0 kDa	ABC10-alpha, RPABC4, RPB10alpha, RPB12, RPB7.0, hsRPB10a	
POLR3B	Polymerase (RNA) III (DNA directed) polypeptide B	C128, HLD8, INMAP, RPC2	
POLR3F	Polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa	RPC39, RPC6	
POLR3G	Polymerase (RNA) III (DNA directed) polypeptide G (32 kD)	RPC32, RPC7	
POLR3K	Polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kDa	My010, C11, C11-RNP3, RPC10, RPC11, RPC12.5	
POM121	POM121 transmembrane nucleoporin	P145A, POM121	
POM121C	POM121 transmembrane nucleoporin C	POM121-2	
POM121L8P	POM121 transmembrane nucleoporin-like 8 pseudogene		
POM121L9P	POM121 transmembrane nucleoporin-like 9, pseudogene		
POMC	Proopiomelanocortin	ACTH, CLIP, LPH, MSH, NPP, POC	
POMGNT1	Protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	RP11-522N21.3, GNTI.2, GnT-I.2, LGMD2O, MEB, MGAT1.2, mT-I.2	
POP1	Processing of precursor 1, ribonuclease P/MRP subunit (S. cerevisiae)		
POP4	Processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)	RPP29	
POSTN	Periostin, osteoblast specific factor	RP11-412K4.1, OSF-2, OSF2, PDLPOSTN, PN, periostin	
POTEA	POTE ankyrin domain family, member A	A26A1, CT104.3, POTE-8, POTE8	
POTEC	POTE ankyrin domain family, member C	A26B2, CT104.6, POTE-18, POTE18	
POTEG	POTE ankyrin domain family, member G	A26C2, ACTBL1, CT104.4, POTE-14, POTE14, POTE14alpha, POTE22	
POU2F2	POU class 2 homeobox 2	OCT2, OTF2, Oct-2	
POU3F2	POU class 3 homeobox 2	BRN2, N-Oct3, OCT7, OTF-7, OTF7, POU3, bm-2, oct-7	
POU4F2	POU class 4 homeobox 2	BRN3.2, BRN3B, Brn-3b	
PPA1	Pyrophosphatase (inorganic) 1	RP11-367H5.1, HEL-S-66p, IOPPP, PP, PP1, SID6-8061	
PPAP2A	Phosphatidic acid phosphatase type 2A	LLP1a, LPP1, PAP-2a, PAP2	
PPAP2B	Phosphatidic acid phosphatase type 2B	Dri42, LPP3, PAP2B, VCIP	
PPAPDC1A	Phosphatidic acid phosphatase type 2 domain containing 1A	RP11-257O17.1, DPPL2, PPAPDC1	
PPARA	Peroxisome proliferator-activated receptor alpha	SC22CB-5E3.5, NR1C1, PPAR, PPARalpha, hPPAR	
PPARG	Peroxisome proliferator-activated receptor gamma	CIMT1, GLM1, NR1C31, PPARG2, PPARgamma, PPARG	√
PPARGC1A	Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	LEM6, PGC-1(alpha), PGC-1v, PGC1, PGC1A, PPARGC1	

PPAT	Phosphoribosyl pyrophosphate amidotransferase	ATASE, GPAT, PRAT	
PPCS	Phosphopantothenoylcysteine synthetase	RP11-163G10.1	
PPFIA1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein	LIP.1, LIP1, LIPRIN	
PPFIA3	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein	LPNA3	
PPFIA4	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein		
PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	L2, SGT2, hSGT2, hSgt2p	
PPHLN1	Periphilin 1	HSPC206, HSPC232	
PPIL1	Peptidylprolyl isomerase (cyclophilin)-like 1	CGI-124, CYPL1, PPIase, hCyPX	
PPIL5			
PPIL6	Peptidylprolyl isomerase (cyclophilin)-like 6	RP11-423D10.6, PPIase, R3PH12, bA423D10.6, dJ910E10.1	
PPIP5K2	Diphosphoinositol pentakisphosphate kinase 2	HISPPD1, IP7K2, VIP2	
PPL	Periplakin		
PPM1A	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	PP2C-ALPHA, PP2CA, PP2Calpha	
PPM1B	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	PP2C-beta, PP2C-beta-X, PP2CB, PP2CBETA, PPC2BETAX	
PPM1D	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	PP2C-DELTA, WIP1	
PPM1E	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	CaMKP-N, POPX1, PP2CH, caMKN	
PPM1K	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	BDP, M3UDMV, PP2Ckappa, PP2Cm, PTMP, UG0882E07	
PPM1L	Protein phosphatase, $Mg2^{+}/Mn2^{+}$ dependent,	PP2C-epsilon, PP2CE, PPM1-LIKE	
PPP1CB	Protein phosphatase 1, catalytic subunit, beta isoform	HEL-S-80p, PP-1B, PP1B, PP1beta, PPP1CD	
PPP1R12B	Protein phosphatase 1, regulatory subunit 12B	MYPT2, PP1bp55	
PPP1R12C	Protein phosphatase 1, regulatory subunit 12C	LENG3, MBS85, p84, p85	
PPP1R13B	Protein phosphatase 1, regulatory subunit 13B	ASPP1, p53BP2-like, p85	
PPP1R14C	Protein phosphatase 1, regulatory (inhibitor) subunit 14C	CPI17-like, KEPI, NY-BR-81	
PPP1R1C	Protein phosphatase 1, regulatory (inhibitor) subunit 1C	IPP5	
PPP1R2	Protein phosphatase 1, regulatory (inhibitor) subunit 2	IPP-2, IPP2	
PPP1R2P3	Protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudogene 3		
PPP1R3B	Protein phosphatase 1, regulatory subunit 3B	GL, PPP1R4, PTG	
PPP1R3C	Protein phosphatase 1, regulatory subunit 3C	PPP1R5	
PPP1R3D	Protein phosphatase 1, regulatory subunit 3D	PPP1R6	
PPP1R8	Protein phosphatase 1, regulatory subunit 8	RP4-547C9.1, ARD-1, ARD1, NIPP-1, NIPP1, PRO2047	
PPP1R9A	Protein phosphatase 1, regulatory subunit 9A	NRB1, NRBI, Neurabin-I	
PPP2R1B	Protein phosphatase 2, regulatory subunit A, beta	PP2A-Abeta, PR65B	
PPP2R2C	Protein phosphatase 2, regulatory subunit B, gamma	B55-GAMMA, IMYPNO, IMYPNO1, PR52, PR55G	

PPP2R3A	Protein phosphatase 2, regulatory subunit B'', alpha	PPP2R3, PR130, PR72	
PPP2R3C	Protein phosphatase 2, regulatory subunit B'', gamma	C14orf10, G4-1, G5pr	
PPP2R5A	Protein phosphatase 2, regulatory subunit B', alpha	B56A, PR61A	
PPP2R5C	Protein phosphatase 2, regulatory subunit B', gamma	B56G, PR61G	
PPP2R5E	Protein phosphatase 2, regulatory subunit B', epsilon isoform		
PPP3CB	Protein phosphatase 3, catalytic subunit, beta isozyme	RP11-345K20.1, CALNA2, CALNB, CNA2, PP2Bbeta	
PPP3R1	Protein phosphatase 3, regulatory subunit B, alpha	CALNB1, CNB, CNB1	
PPP4C	Protein phosphatase 4, catalytic subunit	PP4, PP4C, PPH3, PPP4, PPX	
PPP4R1	Protein phosphatase 4, regulatory subunit 1	MEG1, PP4(Rmeg), PP4R1	
PPP4R4	Protein phosphatase 4, regulatory subunit 4	CFAP14, KIAA1622, PP4R4	
PPP6C	Protein phosphatase 6, catalytic subunit	RP11-366O20.1, PP6, PP6C	
PPPDE1			
PQLC1	PQ loop repeat containing 1		
PRAMEF11	PRAME family member 11		
PRAMEF13	PRAME family member 14	RP11-584P2.2, PRAMEF13	
PRAMEF14	PRAME family member 14	RP11-584P2.2, PRAMEF13	
PRAMEF4	PRAME family member 4	RP5-845O24.6	
PRAMEF5	PRAME family member 5	PRAMEF23L, PRAMEF5	
PRAMEF6	PRAME family member 6		
PRAMEF9	PRAME family member 9		
PRC1	Protein regulator of cytokinesis 1	ASE1	
PRCD	Progressive rod-cone degeneration	RP36	
PRCP	Prolylcarboxypeptidase (angiotensinase C)	HUMPCP, PCP	
PRDM1	PR domain containing 1, with ZNF domain	RP1-134E15.1, BLIMP1, PRDI-BF1	√
PRDM10	PR domain containing 10	PFM7	
PRDM15	PR domain containing 15	C21orf83, PFM15, ZNF298	
PRDM2	PR domain containing 2, with ZNF domain	RP5-1177E19.1, HUMHOXF11, KMT8, MTB-ZF, RIZ, RIZ1, RIZ2	
PRDM4	PR domain containing 4	PFM1	
PRDM6	PR domain containing 6		
PRDM8	PR domain containing 8	PFM5	
PRDX3	Peroxiredoxin 3	AOP-1, AOP1, HBC189, MER5, PRO1748, SP-22, prx-III	
PRDX5	Peroxiredoxin 5	3BBP10, ACR1, AOEB166, B166, HEL-S-55, PLP, PMP20, PRDX6, PRXV, prx-V	
PRELID2	PRELI domain containing 2		

PREPL	Prolyl endopeptidase-like		
PREX2	Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	6230420N16Rik, DEP.2, DEPDC2, P-REX2, PPP1R129	
PRG1	P53-responsive gene 1		
PRH2	Proline-rich protein HaeIII subfamily 2	PIF-S, PRH1, PRP-1/PRP-2, Pr, db-s, pa, pr1/Pr2	
PRICKLE2	Prickle homolog 2 (Drosophila)	EPM5	
PRIMA1	Proline rich membrane anchor 1	PRIMA	
PRINS			
PRKAA2	Protein kinase, AMP-activated, alpha 2 catalytic subunit	AMPK, AMPK2, AMPKa2, PRKAA	
PRKAB1	Protein kinase, AMP-activated, beta 1 non-catalytic subunit	AMPK, HAMPKb	
PRKAB2	Protein kinase, AMP-activated, beta 2 non-catalytic subunit		
PRKACB	Protein kinase, cAMP-dependent, catalytic, beta	RP11-82H13.1, PKA C-beta, PKACB	
PRKAG2	Protein kinase, AMP-activated, gamma 2 non-catalytic subunit	AAKG, AAKG2, CMH6, H91620p, WPWS	
PRKAG3	Protein kinase, AMP-activated, gamma 3 non-catalytic subunit	AMPKG3	
PRKAR2B	Protein kinase, cAMP-dependent, regulatory, type II, beta	PRKAR2, RII-BETA	
PRKCA	Protein kinase C, alpha	AAG6, PKC-alpha, PKCA, PRKACA	
PRKCB	Protein kinase C, beta	PKC-beta, PKCB1, PRKCB2, PRKCB	
PRKCD	Protein kinase C, delta	CVID9, MAY1, PKCD, nPKC-delta	
PRKCDBP	Protein kinase C, delta binding protein	CAVIN3, HSRBC, SRBC, cavin-3	
PRKCE	Protein kinase C, epsilon	PKCE, nPKC-epsilon	
PRKCI	Protein kinase C, iota	DXS1179E, PKCI, nPKC-iota	
PRKD1	Protein kinase D1	PKC-MU, PKCM, PKD, PRKCM	
PRKD2	Protein kinase D2	HSPC187, PKD2, nPKC-D2	
PRKD3	Protein kinase D3	EPK2, PKC-NU, PKD3, PRKCN, nPKC-NU	
PRKG1	Protein kinase, cGMP-dependent, type I	RP11-346D6.1, 1, AA18, PKGB, PRKGR1B, cGK, cGK 1, cGK1, cGKI, cGKI BETA, cGKI alpha, PRKG1	
PRKRIP1	PRKR interacting protein 1 (IL11 inducible)	C114, KRBOX3	
PRKX	Protein kinase, X-linked	PKX1	
PRKY	Protein kinase, Y-linked, pseudogene	PRKXP3P, PRKY	
PRLR	Prolactin receptor	HPRL, MFAB, hPRLrI	
PRM1	Protamine 1	CT94.1, P1	
PRMT1	Protein arginine methyltransferase 1	ANM1, HCP1, HRMT1L2, IR1B4	
PRMT2	Protein arginine methyltransferase 2	HRMT1L1	
PRMT3	Protein arginine methyltransferase 3	HRMT1L3	
PRMT8	Protein arginine methyltransferase 8	HRMT1L3, HRMT1L4	

PRND	Prion protein 2 (dublet)	UNQ1830/PRO3443, DOPPEL, DPL, PIPLP, dJ1068H6.4	
PRO0611	PRO0611 protein		
PRO0628	uncharacterized LOC29053		
PRO1768	FOXN3 antisense RNA 2	PRO1768	
PROCR	protein C receptor, endothelial	CCCA, CCD41, EPCR	
PRODH	proline dehydrogenase (oxidase) 1	HSPOX2, PIG6, POX1, PRODH2, TP53I6, PRODH	
PROM2	prominin 2	UNQ2521/PRO6014, PROML2	
PROX1	prospero homeobox 1		
PRPF18	pre-mRNA processing factor 18	RP11-295P9.7, PRP18, hPrp18	
PRPF3	pre-mRNA processing factor 3	HPRP3, HPRP3P, PRP3, Prp3p, RP18, SNRNP90	
PRPF39	pre-mRNA processing factor 39		
PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)	HSPC225, FBP-11, FBP11, FLAF1, FNBP3, HIP-10, HIP10, HYPA, NY-REN-6, Prp40	
PRPF4B	pre-mRNA processing factor 4B	RP5-1015A10.2, PK4H, PRP4, PRP4H, PRP4K, dJ1012A10.1	
PRPH2	peripherin 2 (retinal degeneration, slow)	AOFMD, AVMD, CACD2, D3, PRPH, RDS, RP7, TSPAN22, rd2	
PRPS2	phosphoribosyl pyrophosphate synthetase 2	PRSII	
PRR13	proline rich 13	BM-041, TXR1	
PRR20A	proline rich 20A	PRR20	
PRR5	proline rich 5 (renal)	KPL-181C9.3, FLJ20185, PP610, PROTOR-1, PROTOR1	
PRR5L	proline rich 5 like	PROTOR2	
PRRC1	proline-rich coiled-coil 1		
PRRG1	proline rich Gla (G-carboxyglutamic acid) 1	PRGP1	
PRRG3	proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)	PRGP3, TMG3	
PRSS16	protease, serine, 16 (thymus)	XXbac-BPG24O18.5, TSSP	
PRSS36	Protease, serine, 36		
PRSS37	Protease, serine, 37	TRYX2	
PRSS55	protease, serine, 55	UNQ9391/PRO34284, CT153, T-SP1, TSP1, UNQ9391	
PRSSL1			
PRTG	Protogenin	IGDCC5	
PRUNE	Prune exopolyphosphatase	RP11-316M1.6, DRES-17, DRES17, HTCD37	
PRUNE2	Prune homolog 2 (Drosophila)	KIAA0367, bA214N16.3	
PSAP	Prosaposin	GLBA, SAP1	
PSAPL1	Prosaposin-like 1 (gene/pseudogene)		
PSAT1	Phosphoserine aminotransferase 1	EPIP, PSA, PSAT	

PSD3	Pleckstrin and Sec7 domain containing 3	EFA6R, HCA67	
PSEN1	Presenilin 1	AD3, FAD, PS-1, PS1, S182	
PSG11	Pregnancy specific beta-1-glycoprotein 11	PSBG-11, PSBG-13, PSG13, PSG14	
PSG2	Pregnancy specific beta-1-glycoprotein 2	CEA, PSBG2, PSG1	
PSG3	Pregnancy specific beta-1-glycoprotein 3		
PSG5	Pregnancy specific beta-1-glycoprotein 5	FL-NCA-3, PSG	
PSG6	Pregnancy specific beta-1-glycoprotein 6	PSBG-10, PSBG-12, PSBG-6, PSG10, PSGGB	
PSG9	Pregnancy specific beta-1-glycoprotein 9	PS34; PSG11; PSGII; PSBG-9; PSBG-11	
PSIP1	PC4 and SFRS1 interacting protein 1	DFS70, LEDGF, PAIP, PSIP2, p52, p75	√
psiTPTE22			
PSKH1	Protein serine kinase H1		
PSMA8	Proteasome (prosome, macropain) subunit, alpha type, 8	PSMA7L	
PSMB2	Proteasome (prosome, macropain) subunit, beta type, 2	RP5-983H21.1, HC7-I	
PSMB4	Proteasome (prosome, macropain) subunit, beta type, 4	HN3, HsN3, PROS-26, PROS26	
PSMC6	Proteasome (prosome, macropain) subunit, beta type, 6	DELTA, LMPY, Y	
PSMD10	Proteasome (prosome, macropain) 26S subunit, ATPase, 10	RP5-889N15.3, dJ889N15.2, p28, p28(GANK)	
PSMD13	Proteasome (prosome, macropain) 26S subunit, ATPase, 13	HSPC027, Rpn9, S11, p40.5	
PSMD5	Proteasome (prosome, macropain) 26S subunit, ATPase, 5	RP11-27I1.5, S5B	
PSMD8	Proteasome (prosome, macropain) 26S subunit, ATPase, 8	HEL-S-91n, HIP6, HYPF, Nin1p, Rpn12, S14, p31	
PSME4	Proteasome (prosome, macropain) activator subunit 4	PA200	
PSMF1	Proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	RP4-545L17.1, PI31	
PSMG2	Proteasome (prosome, macropain) assembly chaperone 2	CLAST5, HCCA3, hs11707, MDS005, PAC2, TNFSF5IP1	
PSMG3	Proteasome (prosome, macropain) assembly chaperone 3	C7orf48, PAC3	
PSORS1C1	Psoriasis susceptibility 1 candidate 1	DADB-141O4.2, C6orf16, SEEK1	
PSPC1	Paraspeckle component 1	RP11-523H24.2, PSP1	
PSRC1	Proline/serine-rich coiled-coil 1	RP11-297O4.2, DDA3, FP3214	
PSTPIP1	Proline-serine-threonine phosphatase interacting protein 1	CD2BP1, CD2BP1L, CD2BP1S, H-PIP, PAPAS, PSTPIP	
PTAFR	Platelet-activating factor receptor	PAFR	
PTAR1	Protein prenyltransferase alpha subunit repeat containing 1	RP11-109D9.2	
PTBP2	Polypyrimidine tract binding protein 2	PTBLP, brPTB, nPTB	
PTCD3	Pentatricopeptide repeat domain 3	TRG15, MRP-S39	
PTCH1	Patched 1	RP11-435O5.3, BCNS, HPE7, NBCCS, PTC, PTC1, PTCH1, PTCH1	
PTEN	Phosphatase and tensin homolog	10q23del, BZS, CWS1, DEC, GLM2, MHAM, MMAC1, TEP1, PTEN	√

PTGER3	Prostaglandin E receptor 3 (subtype EP3)	RP5-952N6.2, EP3, EP3-I, EP3-II, EP3-III, EP3-IV, EP3e, PGE2-R	
PTGER4	Prostaglandin E receptor 4 (subtype EP4)	EP4, EP4R	
PTGES3	Prostaglandin E synthase 3 (cytosolic)	P23, TEBP, cPGES	
PTGFR	Prostaglandin F receptor (FP)	RP5-944H6.1, FP	
PTGFRN	Prostaglandin F2 receptor inhibitor	CD315, CD9P-1, EWI-F, FPRP, SMAP-6	
PTGIS	Prostaglandin I2 (prostacyclin) synthase	CYP8, CYP8A1, PGIS, PTGI	
PTGR2	Prostaglandin reductase 2	HEL-S-298, PGR2, ZADH1	
PTGS1	Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and	RP11-342K23.6, COX1, COX3, PCOX1, PES-1, PGG/HS, PGHS, PGHS-1, PHS1, PTGHS,	
PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and	COX-2, COX2, GRIPGHS, PGG/HS, PGHS-2, PHS-2, hCox-2	
PTHLH	Parathyroid hormone-like hormone	BDE2, HHM, PLP, PTHR, PTHRP	
PTK2B	Protein tyrosine kinase 2 beta	CADTK, CAKB, FADK2, FAK2, FRB, PTK, PTK2, RAFTK	
PTPDC1	Protein tyrosine phosphatase domain containing 1	RP11-490F3.2, PTP9Q22	
PTPLAD1	Protein tyrosine phosphatase-like A domain containing 1	B-IND1, BIND1, HACD3, HSPC121	
PTPN2	Protein tyrosine phosphatase, non-receptor type 2	PTN2, PTPT, TC-PTP, TCELLPTP, TCPTP	
PTPN22	Protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	LYP, LYP1, LYP2, PEP, PTPN8	
PTPN3	Protein tyrosine phosphatase, non-receptor type 3	RP11-18A3.3, PTP-H1, PTPH1	
PTPN5	Protein tyrosine phosphatase, non-receptor type	PTPSTEP, STEP	
PTPN9	Protein tyrosine phosphatase, non-receptor type 9	MEG2, PTPMEG2	
PTPRB	Protein tyrosine phosphatase, receptor type, B	HPTP-BETA, HPTPB, PTPB, R-PTP-BETA, VEPTP	
PTPRC	Protein tyrosine phosphatase, receptor type, C	RP11-353K6.4, B220, CD45, CD45R, GP180, L-CA, LCA, LY5, T200	√
PTPRD	Protein tyrosine phosphatase, receptor type, D	HPTP, HPTPD, HPTPDELTA, PTPD, RPTPDELTA	
PTPRE	Protein tyrosine phosphatase, receptor type, E	RP11-380J17.1, HPTPE, PTPE, R-PTP-EPSILON	
PTPRJ	Protein tyrosine phosphatase, receptor type, J	CD148, DEP1, HPTPeta, R-PTP-ETA, SCC1	
PTPRN2	Protein tyrosine phosphatase, receptor type, N polypeptide 2	IA-2beta, IAR, ICAAR, PTPRP, R-PTP-N2	
PTPRO	Protein tyrosine phosphatase, receptor type, O	GLEPP1, NPH30, PTP-OC, PTP-U21, PTPU2, R-PTP-O, PTPRO	
PTPRR	Protein tyrosine phosphatase, receptor type, R	EC-PTP, PCPTP1, PTP-SL, PTPBR7, PTPRQ	
PTPRT	Protein tyrosine phosphatase, receptor type, T	RP5-1121H13.2, RPTPrho	
PTX3	Pentraxin 3, long	TNFAIP5, TSG-14	
PUM1	Pumilio RNA-binding family member 1	RP1-65J11.4, HSPUM, PUMH, PUMH1, PUML1	
PURB	Purine-rich element binding protein B	PURBETA	
PURG	Purine-rich element binding protein G	PURG-A-B, PURG	
PUS10	Pseudouridylate synthase 10	CCDC139, DOBI	
PVR	Poliovirus receptor	CD155, HVED, NECL5, Necl-5, PVS, TAGE4	

PVRL4	Poliovirus receptor-related 4	EDSS1, LNIR, PRR4, nectin-4	
PVT1	Pvt1 oncogene (non-protein coding)	LINC00079, NCRNA00079	
PWP2	PWP2 periodic tryptophan protein homolog (yeast)	EHOC-17H, UTP1, PWP2	
PWWP2A	PWWP domain containing 2A	MST101	
PXDN	Peroxidasin homolog (Drosophila)	COPOA, D2S448, D2S448E, MG50, PRG2, PXN, VPO	
PXMP2	Peroxisomal membrane protein 2, 22 kDa	PMP22	
PXT1	Peroxisomal, testis specific 1	STEPP	
PYGB	Phosphorylase, glycogen; brain	RP5-965G21.1, GPBB	
QDPR	Quinoid dihydropteridine reductase	DHPR, PKU2, SDR33C1	
QKI	QKI, KH domain containing, RNA binding	Hqk, QK, QK1, QK3, hqkI	
QRSL1	Glutaminyl-tRNA synthase (glutamine-hydrolyzing) like 1	GatA	
QSER1	Glutamine and serine rich 1		
QSOX2	Quiescin Q6 sulfhydryl oxidase 2	RP11-83N9.4, QSCN6L1, SOXN	
QTRTD1	Queuine tRNA-ribosyltransferase domain containing 1		
RAB10	RAB10, member RAS oncogene family		
RAB11A	RAB11A, member RAS oncogene family	YL8	
RAB11FIP1	RAB11 family interacting protein 1 (class I)	NOEL1A, RCP, rab11-FIP1	
RAB11FIP2	RAB11 family interacting protein 2 (class I)	Rab11-FIP2, nRip11	
RAB11FIP5	RAB11 family interacting protein 5 (class I)	GAF1, RIP11, pp75	
RAB12	RAB12, member RAS oncogene family		
RAB13	RAB13, member RAS oncogene family	GIG4	
RAB14	RAB14, member RAS oncogene family	RP11-165P4.4, FBP, RAB-14	
RAB15	RAB15, member RAS oncogene family		
RAB18	RAB18, member RAS oncogene family	RP11-148B2.1LI1, WARBM3, RAB18	
RAB1A	RAB1A, member RAS oncogene family	RAB1, YPT1	
RAB1B	RAB1B, member RAS oncogene family		
RAB20	RAB20, member RAS oncogene family		
RAB21	RAB21, member RAS oncogene family		
RAB22A	RAB22A, member RAS oncogene family		
RAB23	RAB23, member RAS oncogene family	RP3-496N17.3, HSPC137	
RAB2B	RAB2B, member RAS oncogene family		
RAB33B	RAB33B, member RAS oncogene family	SMC2	
RAB37	RAB37, member RAS oncogene family		

RAB38	RAB38, member RAS oncogene family	NY-MEL-1, rrGTPbp	
RAB39	RAB39A, member RAS oncogene family	RAB39	
RAB39B	RAB39B, member RAS oncogene family	RP13-228J13.2, MRX72	
RAB3GAP1	RAB3 GTPase activating protein subunit 1 (catalytic)	P130, RAB3GAP30, WARBM1, RAB3GAP1	
RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)	RP11-508G11.1, RAB3-GAP150, RAB3GAP150, SPG69, WARBM2, p150	
RAB3IL1	RAB3A interacting protein (rabin3)-like 1	GRAB	
RAB3IP	RAB3A interacting protein	RABIN3	
RAB40A	RAB40A, member RAS oncogene family		
RAB40AL	RAB40A, member RAS oncogene family-like	LL0XNC01-237H1.1, MRXSMP, RAR2, RLGP	
RAB40B	RAB40B, member RAS oncogene family	RAR, SEC4L	
RAB44	RAB44, member RAS oncogene family	RP3-431A14.3, RASD3, RASL13, dJ431A14.3	
RAB4A	RAB4A, member RAS oncogene family	HRES-1, HRES-1/RAB4, HRES1, RAB4	
RAB5A	RAB5A, member RAS oncogene family	RAB5	
RAB6A	RAB6A, member RAS oncogene family	RAB6	
RAB7L1			
RAB8B	RAB8B, member RAS oncogene family		
RABEP1	Rabaptin, RAB GTPase binding effector protein 1	RAB5EP, RABPT5	
RABGAP1	RAB GTPase activating protein 1	HSPC094, GAPCENA, TBC1D11	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	RABEX5, RAP1, rabex-5	
RABGGTB	Rab geranylgeranyltransferase, beta subunit	RP4-682C21.3, GGTB	
RABL3	RAB, member of RAS oncogene family-like 3		
RABL5			
RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein	MIG5, Rac-1, TC-25, p21-Rac1	√
RACGAP1	Rac GTPase activating protein	CYK4, HsCYK-4, ID-GAP, MgcRacGAP	
RAD1	RAD1 checkpoint DNA exonuclease	HRAD1, REC1	
RAD17	RAD17 homolog *(S. pombe)*	CCYC, HRAD17, R24LSP, RAD24, RAD17	
RAD18	RAD18 E3 ubiquitin protein ligase	RNF73	
RAD21	RAD21 homolog *(S. pombe)*	CDLS4, HR21, HRAD21, MCD1, NXP1, SCC1, hHR21	√
RAD23B	RAD23 homolog B *(S. cerevisiae)*	RP11-131A5.1, HHR23B, HR23B, P58	
RAD50	RAD50 homolog *(S. cerevisiae)*	NBSLD2, hRad50, RAD50	
RAD51AP1	RAD51 associated protein 1	PIR51	
RAD51C	RAD51 paralog C	BROVCA3, FANCO, R51H3, RAD51L2	
RAD54B	RAD54 homolog B *(S. cerevisiae)*	hCG_2009220, RDH54	

RADIL	Ras association and DIL domains	RASIP2	
RAET1E	Retinoic acid early transcript 1E	ULBP4, bA350I20.7, RAET1E	
RAG1	Recombination activating gene 1	RAG-1, RNF74	
RAI1	Retinoic acid induced 1	SMCR, SMS	
RAI14	Retinoic acid induced 14	NORPEG, RAI13	
RALA	v-ral simian leukemia viral oncogene homolog A (ras related)	RAL	
RALBP1	RalA binding protein 1	RIP1, RLIP1, RLIP76	
RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)	GARNL1, GRIPE, RalGAPalpha1, TULIP1, p240	
RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)	RP11-470C15.2, A3250, C20orf74, bA287B20.1, dJ1049G11, dJ1049G11.4, p220	
RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic)	RP5-1100H13.1, KIAA1219, RalGAPbeta	
RALGDS	Ral guanine nucleotide dissociation stimulator	RP11-326L24.1, RGDS, RGF, RalGEF	√
RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	RP4-595C2.1, dJ595C2.1	
RALYL	RALY RNA binding protein-like	HNRPCL3	
RAN	RAN, member RAS oncogene family	OK/SW-cl.81, ARA24, Gsp1, TC4	
RANBP17	RAN binding protein 17		√
RANBP3	RAN binding protein 3		
RANBP6	RAN binding protein 6		
RAP1A	RAP1A, member of RAS oncogene family	C21KG, G-22K, KREV-1, KREV1, RAP1, SMGP21	
RAP1B	RAP1B, member of RAS oncogene family	OK/SW-cl.11, K-REV, RAL1B	
RAP1BL	RAP1B, member of RAS oncogene family pseudogene	hCG_1757335	
RAP1GAP2	RAP1 GTPase activating protein 2	GARNL4, RAP1GA3	
RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1	GDS1, SmgGDS	√
RAP2A	RAP2A, member of RAS oncogene family	RP11-128N14.2, K-REV, KREV, RAP2, RbBP-30	
RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2	CNrasGEP, NRAPGEP, PDZ-GEF1, PDZGEF1, RA-GEF, RA-GEF-1, Rap-GEP, nRap-GEP	
RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3	CAMP-GEFI, EPAC, EPAC1, HSU79275, bcm910	
RAPGEF4	Rap guanine nucleotide exchange factor (GEF) 4	2, CAMP-GEFII, CGEF2, EPAC, EPAC 2, EPAC2, Nbla00496	
RAPGEF5	Rap guanine nucleotide exchange factor (GEF) 5	tcag7.1034, GFR, MR-GEF, REPAC	
RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	AL32CR16, AL32CR9, LPD, PREL-2, PREL2, RMO1, RalGDS/AF-6	
RASA1	RAS p21 protein activator (GTPase activating protein) 1	CM-AVM, CMAVM, GAP, PRW5, RASA, RASGAP, p120GAP, p120RASGAP	
RASA4	RAS p21 protein activator 4	CAPRI, GAPL	
RASA4B	RAS p21 protein activator 4B	Chromosome 7, NC_000007.14 (102463159..102517777, complement)	
RASAL2	RAS protein activator like 2	RP4-593C16.1, NGAP	
RASGRF2	Ras protein-specific guanine nucleotide-releasing factor 2	GRF2, RAS-GRF2	

RASGRP3	RABIF RAB interacting factor		
RASGRP4	RAS guanyl releasing protein 4		
RASIP1	Ras interacting protein 1	RAIN	
RASL10B	RAS-like, family 10, member B	RRP17, VTS58635	
RASSF1	Ras association (RalGDS/AF-6) domain family member 1	123F2, NORE2AA, RDA32, REH3P21, RASSF1	
RASSF2	Ras association (RalGDS/AF-6) domain family member 2	RP4-599I11.1, CENP-34, RASFADIN	
RASSF6	Ras association (RalGDS/AF-6) domain family member 6		
RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8	C12orf2, HOJ1	
RB1	Retinoblastoma 1	RP11-174I10.1, OSRC, PPP1R130, RB, p105-Rb, pRb, pp110	√
RBAK	RB-associated KRAB zinc finger	ZNF769	
RBBP5	Retinoblastoma binding protein 5	RBQ3, SWD1	
RBBP7	Retinoblastoma binding protein 7	RP11-716A19.5, RbAp46	
RBCK1	RanBP-type and C3HC4-type zinc finger containing 1	RP5-852M4.4, C20orf18, HOIL-1, HOIL1, PBME1, PRKCK2, RNF54, UBCE7IP2, XAP3, XAP4, ZRANB4	
RBL2	Retinoblastoma-like 2	P130, Rb2	
RBM12B	RNA binding motif protein 12B	MGC:33837	
RBM14	RNA binding motif protein 14	COAA, PSP2, SIP, SYTIP1, TMEM137	
RBM17	RNA binding motif protein 17	RP11-414H17.9, SPF45	
RBM18	RNA binding motif protein 18		
RBM22	RNA binding motif protein 22	199G4, Cwc2, ZC3H16, fSAP47	
RBM24	RNA binding motif protein 24	RNPC6, dJ259A10.1	
RBM25	RNA binding motif protein 25	NET52, RED120, RNPC7, S164, Snu71, fSAP94	
RBM26	RNA binding motif protein 26	PRO1777, ARRS2, C150rf10, PPP1R132, SE70-2, ZC3H17	
RBM27	RNA binding motif protein 27	ARRS1, Psc1, ZC3H18	
RBM33	RNA binding motif protein 33	hCG_20114, PRR8	
RBM34	RNA binding motif protein 34	RP11-739C15.1	
RBM38	RNA binding motif protein 38	HSRNASEB, RNPC1, SEB4B, SEB4D, dJ800J21.2	
RBM39	RNA binding motif protein 39	RP11-353C18.2, CAPER, CAPERalpha, FSAP59, HCC1, RNPC2	
RBM41	RNA binding motif protein 41	RP13-383K5.1	
RBM43	RNA binding motif protein 43	C2orf38	
RBM44	RNA binding motif protein 44	Gm817	
RBM46	RNA binding motif protein 46	CT68	
RBM47	RNA binding motif protein 47	NET18	
RBM5	RNA binding motif protein 5	H37, G15, LUCA15, RMB5	

RBM6	RNA binding motif protein 6	3G2, DEF-3, DEF3, HLC-11, NY-LU-12, g16	
RBM8A	RNA binding motif protein 8A	H3PCT14, BOV-1A, BOV-1B, BOV-1C, C1DELq21.1, DEL1-21.1, MDS014, RBM8, RBM8B, TAR, Y14-3, SCR2, YC1	
RBMS1	RNA binding motif, single stranded interacting protein 1	C20orf2, HCC-4, M35P, M35P-1, M35P-2, M35P-3,	
RBMS2	RNA binding motif, single stranded interacting protein 2	SCR3	
RBMS3	RNA binding motif, single stranded interacting protein 3		
RBMX	RNA binding motif protein, X-linked	RP11-1114A5.1, HNRNPG, HNRPGP1, RBMXRT, RNMX, hnRNP-G, RBMX	
RBMXL1	RNA binding motif protein, X-linked-like 1	RP4-531M19.2, RBM1	
RBMY2FP	RBMY2FP RNA binding motif protein, Y-linked family 2 pseudogene		
RBPJ	recombination signal binding protein for immunoglobulin kappa J region	AO35, CBF1, IGKJRB, IGKJRB1, KBF2, RBP-JK, RBPSUH, SUH, csl, RBPL	
RBPMS	RNA binding protein with multiple splicing	HERMES	
RBPMS2	RNA binding protein with multiple splicing 2		
RC3H1	Ring finger and CCCH-type domains 1	5730557L09Rik, Gm551, N28103, mKIAA2025	
RCAN1	Regulator of calcineurin 1	ADAPT78, CSP1, DSC1, DSCR1, MCIP1, RCN1	
RCBTB2	Regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing	CHC1L, RLG	
RCC2	Regulator of chromosome condensation 2	TD-60	
RCHY1	Ring finger and CHY zinc finger domain containing 1, E3 ubiquitin protein ligase	ARNIP, CHIMP, PIRH2, PRO1996, RNF199, ZCHY, ZNF363	
RCL1	RNA terminal phosphate cyclase-like 1	RP11-125K10.1, RNAC, RPCL1	
RCN1	Reticulocalbin 1, EF-hand calcium binding domain	HEL-S-84, PIG20, RCAL, RCN	
RCN2	Reticulocalbin 2, EF-hand calcium binding domain	E6BP, ERC-55, ERC55, TCBP49	
RCOR1	REST corepressor 1	COREST, RCOR	
RCOR3	REST corepressor 3	RP11-318L16.1	
RCSD1	RCSD domain containing 1	RP3-503M14.1, CAPZIP, MK2S4	
RD3	Retinal degeneration 3	C1orf36, LCA12	
RDH10	Retinol dehydrogenase 10 (all-trans)	UNQ9375/PRO34191, SDR16C4	
RDH12	Retinol dehydrogenase 12 (all-trans/9-cis/11-cis)	LCA13, LCA3, RP53, SDR7C2	
RDX	Radixin	DFNB24	
REC8	REC8 meiotic recombination protein	HR21spBL1, Rec8p, REC8	
RECK	Reversion-inducing-cysteine-rich protein with kazal motifs	ST15	
RECQL	RecQ helicase-like	RECQL1, RecQ1	
RECQL5	RecQ protein-like 5	RECQ5	
REEP1	Receptor accessory protein 1	C2orf23, HMN5B, SPG31	
REEP3	Receptor accessory protein 3	RP11-439F7.1, C10orf74	
REEP5	Receptor accessory protein 5	C5orf18, D5S346, DP1, TB2, YOP1	

REG4	Regenerating islet-derived family, member 4	RP5-1042I8.1, GISP, REG-IV, RELP	
RELT	RELT tumor necrosis factor receptor	TNFRSF19L, TRLT	
REPIN1	Replication initiator 1	AP4, RIP60, ZNF464, Zfp464	
REPS2	RALBP1 associated Eps domain containing 2	RP11-2K15.3, POB1	
RERE	Arginine-glutamic acid dipeptide (RE)	RP11-141M15.2, ARG, ARP, ATN1L, DNB1	
RETSAT	Retinol saturase (all-trans-retinol 13,14-reductase)	UNQ439/PRO872	
REV1	REV1, polymerase (DNA directed)	REV1L	
RFC1	Replication factor C (activator 1) 1, 145 kDa	A1, MHCBFB, PO-GA, RECC1, RFC40, RFC1	
RFC3	Replication factor C (activator 1) 3, 38 kDa	RFC38	
RFK	Riboflavin kinase	RP11-422N19.2, RIFK	
RFTN1	Raftlin, lipid raft linker 1	MIG2, PIB10, PIG9, RAFTLIN	
RFTN2	Raftlin family member 2	C2orf11, Raftlin-2	
RFX2	Regulatory factor X, 2 (influences HLA class II expression)		
RFX3	Regulatory factor X, 3 (influences HLA class II expression)	RP11-32F11.1	
RFX4	Regulatory factor X, 4 (influences HLA class II expression)	NYD-SP10	
RFX7	Regulatory factor X, 7	RFXDC2	
RG9MTD1			
RG9MTD2			
RGL1	Ral guanine nucleotide dissociation stimulator-like 1	RP11-498P10.1, RGL	
RGMA	Repulsive guidance molecule family member a	RGM	
RGMB	Repulsive guidance molecule family member b	DRAGON	
RGNEF	Rho guanine nucleotide exchange factor (GEF) 28	RGNEF, RIP2, p190RHOGEF	
RGPD1	RANBP2-like and GRIP domain containing 1	RGP1, RGPD2, RanBP2L2	
RGPD2	RANBP2-like and GRIP domain containing 2	NUP358, RANBP2L2, RGP2	
RGPD3	RANBP2-like and GRIP domain containing 3	RGP3	
RGPD5	RANBP2-like and GRIP domain containing 5	BS-63, BS63, HEL161, RGP5	
RGPD6	RANBP2-like and GRIP domain containing 6	RGP6, RGPD7, RanBP2L1, RanBP2L2	
RGPD8	RANBP2-like and GRIP domain containing 8	RANBP2L1, RGP8, RanBP2alpha	
RGS1	Regulator of G-protein signaling 1	1R20, BL34, HEL-S-87, IER1, IR20	
RGS12	Regulator of G-protein signaling 12	RP11-529E10.1	
RGS13	Regulator of G-protein signaling 13	RP11-92K2.1	
RGS16	Regulator of G-protein signaling 16	A28-RGS14, A28-RGS14P, RGS-R	
RGS18	Regulator of G-protein signaling 18	RP11-142L4.1, RGS13	

RGS2	Regulator of G-protein signaling 2	GIG31, G0S8	
RGS21	Regulator of G-protein signaling 21		
RGS22	Regulator of G-protein signaling 22	CT145, PRTD-NY2	
RGS3	Regulator of G-protein signaling 3	RP11-168K11.4, C2PA, RGP3	
RGS5	Regulator of G-protein signaling 5	RP11-207N12.3, MST092, MSTP100, MSTP129, MSTP033, MSTP093, MSTP106, MSTP130	
RGS6	Regulator of G-protein signaling 6	GAP	
RGS9BP	Regulator of G-protein signaling 9 binding protein	PERRS, R9AP, RGS9	
RHBDD1	Rhomboid domain containing 1	HSD50, RRP4	
RHBDL3	Rhomboid, veinlet-like 3 (Drosophila)	RHBDL4, VRHO	
RHOB	Ras homolog family member B	ARH6, ARHB, MST081, MSTP081, RHOH6	
RHOBTB1	Rho-related BTB domain containing 1		
RHOBTB2	Rho-related BTB domain containing 2	DBC2	
RHOBTB3	Rho-related BTB domain containing 3		
RHOG	Ras homolog family member G	ARHG	
RHOQ	Ras homolog family member Q	ARHQ, HEL-S-42, RASL7A, TC10, TC10A	
RHOT1	Ras homolog family member T1	ARHT1, MIRO-1, MIRO1	
RHOU	Ras homolog family member U	SB128, ARHU, CDC42L1, G28K, WRCH1, hG28K	
RIC3	RIC3 acetylcholine receptor chaperone	UNQ720/PRO1385, AYST720, PRO1385	
RIC8A	RIC8 guanine nucleotide exchange factor A	RIC8	
RIC8B	RIC8 guanine nucleotide exchange factor B	RIC8, hSyn	
RICTOR	RPTOR independent companion of MTOR, complex 2	AVO3, PIA, hAVO3	
RIF1	Replication timing regulatory factor 1		
RILPL1	Rab interacting lysosomal protein-like 1	GOSPEL, RLP1	
RIMKLA	Ribosomal modification protein rimK-like family member A		
RIMKLB	Ribosomal modification protein rimK-like family member B	FAM80B, NAAGS, NAAGS-I	
RIMS1	Regulating synaptic membrane exocytosis 1	RP5-1046G13.1, CORD7, RAB3IP2, RIM, RIM1	
RIMS2	Regulating synaptic membrane exocytosis 2	OBOE, RAB3IP3, RIM2	
RIMS3	Regulating synaptic membrane exocytosis 3	RP4-739H11.2, NIM3, RIM3	
RIMS4	Regulating synaptic membrane exocytosis 4	C20orf190, KIM 4, KIM-4, KIM4, KIM4-gamma, RIM4gamma	
RIN2	Ras and Rab interactor 2	RP1-122P22.2, MACS, RASSF4	
RINL	Ras and Rab interactor-like		
RIOK2	RIO kinase 2	RIO2	
RIOK3	RIO kinase 3	SUDD	

RIT1	Ras-like without CAAX 1	RP11-101O6.4, NS8, RIBB, RIT, ROC1	
RLBP1	Retinaldehyde binding protein 1	CRALBP	
RLF	Rearranged L-myc fusion	RP1-39G22.1, ZN-15L, ZNF292L	
RLIM	Ring finger protein, LIM domain interacting	CTD-2530H13.3, NY-REN-43, RNF12	
RMI1	RecQ mediated genome instability 1	RP11-346I8.1, BLAP75, C9orf76, FAAP75	
RMND5A	Required for meiotic nuclear division 5 homolog A (S. cerevisiae)	CTLH, GID2, GID2A, RMD5, p44CTLH	
RMST	Rhabdomyosarcoma 2 associated transcript	LINC00054, NCRMS, NCRNA00054	
RNASE9	Ribonuclease, RNase A family, 9 (non-active)	HEL128, RAK1, h461	
RNASEL	Ribonuclease L (2',5'-oligoisoadenylate synthetase-dependent)	RP11-20H6.1, PRCA1, RNS4	
RNASEN	Drosha, ribonuclease type III	ETOH2, HSA242976, KIAA1592, RN3, RNASE3L, RNASEN	
RNASET2	Ribonuclease T2	RP11-514O12.3, RNASE6PL, bA514O12.3	
RNF10	Ring finger protein 10	RIE2	
RNF103	Ring finger protein 103	HKF-1, KF-1, KF1, ZFP-103, ZFP103	
RNF11	Ring finger protein 11	CGI-123, SID1669	
RNF114	Ring finger protein 114	PSORS12, ZNF313	
RNF115	Ring finger protein 115	BCA2, ZNF364	
RNF125	Ring finger protein 125, E3 ubiquitin protein ligase	TRAC-1, TRAC1	
RNF128	Ring finger protein 128, E3 ubiquitin protein ligase	RP11-150F24.1, GRAIL	
RNF13	Ring finger protein 13	RZF	
RNF14	Ring finger protein 14	HRIHFB2038, ARA54, HFB30, TRIAD2	
RNF141	Ring finger protein 141	ZFP26, ZNF230	
RNF144A	Ring finger protein 144A	RNF144, UBCE7IP4	
RNF144B	Ring finger protein 144B	IBRDC2, PIR2, bA528A10.3, p53RFP	
RNF145	Ring finger protein 145		
RNF146	Ring finger protein 146	RP3-351K20.1, dJ351K20.1	
RNF157	Ring finger protein 157		
RNF160			
RNF165	Ring finger protein 165	ARKL2, RNF111L2	
RNF168	Ring finger protein 168, E3 ubiquitin protein ligase	hRNF168	
RNF169	Ring finger protein 169		
RNF17	Ring finger protein 17	RP11-756A22.1, Mmip-2, SPATA23, TDRD4	
RNF170	Ring finger protein 170	ADSA, SNAX1	
RNF182	Ring finger protein 182		

RNF183	Ring finger protein 183		
RNF19A	Ring finger protein 19A, RBR E3 ubiquitin protein ligase	RNF19	
RNF19B	Ring finger protein 19B	IBRDC3, NKLAM	
RNF2	Ring finger protein 2	G31-120K12.1, BAP-1, BAP1, DING, HIP15, RING1B, RING2	
RNF20	Ring finger protein 20, E3 ubiquitin protein ligase	BRE1, BRE1A, hBRE1	
RNF212	Ring finger protein 212	ZHP3	
RNF213	Ring finger protein 213	hCG_1812857, ALO17, C17orf27, KIAA1618, MYMY2, MYSTR, NET5	
RNF216L	Ring finger protein 213	hCG_1812857, ALO17, C17orf27, KIAA1618, MYMY2, MYSTR, NET57	
RNF219	Ring finger protein 219	C13orf7	
RNF24	Ring finger protein 24	G1L	
RNF32	Ring finger protein 32	tcag7.575, FKSG33, HSD15, LMBR2	
RNF34	Ring finger protein 34, E3 ubiquitin protein ligase	CARP-1, CARP1, RFI, RIF, RIFF, hRFI	
RNF38	Ring finger protein 38	RP11-84P7.4	
RNF4	Ring finger protein 4	RES4-26, SLX5, SNURF	
RNF40	Ring finger protein 40, E3 ubiquitin protein ligase	BRE1B, RBP95, STARING	
RNF43	Ring finger protein 43	RNF124, URCC	√
RNF5P1	Ring finger protein 5, E3 ubiquitin protein ligase pseudogene 1		
RNF6	Ring finger protein (C3H2C3 type) 6	RP11-380N8.5	
RNF7	Ring finger protein 7	CKBBP1, ROC2, SAG	
RNF8	Ring finger protein 8, E3 ubiquitin protein ligase	hRNF8	
RNFT1	Ring finger protein, transmembrane 1	PTD016	
RNFT2	Ring finger protein, transmembrane 2	UNQ514, TMEM118	
RNLS	Renalase, FAD-dependent amine oxidase	C10orf59, RENALASE	
RNMT	RNA (guanine-7-) methyltransferase	MET, RG7MT1, hCMT1c	
RNPC3	RNA-binding region (RNP1, RRM) containing 3	RBM40, RNP, SNRNP65	
ROBO2	Roundabout, axon guidance receptor, homolog 2 (Drosophila)	SAX3	
ROCK1	Rho-associated, coiled-coil containing protein kinase 1	P160ROCK, ROCK-I	
ROD1			
ROR2			
RORA	RAR-related orphan receptor A	NR1F1, ROR1, ROR2, ROR3, RZR-ALPHA, RZRA	
RORB	RAR-related orphan receptor B	NR1F2, ROR-BETA, RZR-BETA, RZRB, bA133M9.1	
RP2	Retinitis pigmentosa 2 (X-linked recessive)	DELXp11.3, NM23-H10, NME10, TBCCD2, XRP2	
RP9	Retinitis pigmentosa 9 (autosomal dominant)	PAP-1, PAP1	

RPA1	Replication protein A1, 70 kDa	HSSB, MST075, REPA1, RF-A, RP-A, RPA70	
RPAP2	RNA polymerase II associated protein 2	C1orf82	
RPAP3	RNA polymerase II associated protein 3		
RPE65	Retinal pigment epithelium-specific protein 65 kDa	BCO3, LCA2, RP20, mRPE65, rd12, sRPE65	
RPGR	Retinitis pigmentosa GTPase regulator	CORD1, CORDX1, CRD, PCDX, RP15, RP3, XLRP3, orf15	
RPGRIP1L	RPGRIP1-like	CORS3, FTM, JBTS7, MKS5, NPHP8, PPP1R134	
RPH3A	Rabphilin 3A		
RPIA	Ribose 5-phosphate isomerase A	RPI	
RPL11	Ribosomal protein L11	RP11-223J15.3, DBA7, GIG34, L11	
RPL13A	Ribosomal protein L13a	L13A, TSTA1	
RPL13AP3	Ribosomal protein L13a pseudogene 3	RPL13A_11_1370	
RPL15	Ribosomal protein L15	TCBAP0781, DBA12, EC45, L15, RPL10, RPL10, RPXL10	
RPL26L1	Ribosomal protein L26-like 1	RPL26P1	
RPL27A	Ribosomal protein L27a	L27A	
RPL28	Ribosomal protein L28	L28	
RPL3	Ribosomal protein L3	OK/SW-cl.32, ASC-1, L3, TARBP-B	
RPL32	Ribosomal protein L32	PP9932, L32	
RPL36A	Ribosomal protein L36a	RP1-164F3.1, L36A, L44L, MIG6, RPL44	
RPL37	Ribosomal protein L37	L37	
RPL4	Ribosomal protein L4	L4	
RPL5	Ribosomal protein L5	MSTP030, DBA6, L5, PPP1R135	√
RPN2	Ribophorin II	RP3-343K2.2, RIBIIR, RPN-II, RPNII, SWP1	
RPP30	Ribonuclease P/MRP 30 kDa subunit	RP11-320F15.1, TSG15	
RPRD1A	Regulation of nuclear pre-mRNA domain containing 1A	HsT3101, P15RS	
RPRD1B	Regulation of nuclear pre-mRNA domain containing 1B	RP5-1057B20.2, C20orf77, CREPT, NET66, dJ1057B20.2	
RPRD2	Regulation of nuclear pre-mRNA domain containing 2	HSPC099, KIAA0460	
RPRML	Reprimo-like		
RPS23	Ribosomal protein S23	S23	
RPS27A	Ribosomal protein S27a	CEP80, HEL112, S27A, UBA80, UBC, UBCEP1, UBCEP80	
RPS29	Ribosomal protein S29	DBA13, S29	
RPS6KA3	Ribosomal protein S6 kinase, 90 kDa, polypeptide 3	RP11-395H10.3, CLS, HU-3, ISPK-1, MAPKAPK1B, MRX19, RSK, RSK2, SCK, alpha2, p90-RSK3	
RPS6KA5	Ribosomal protein S6 kinase, 90 kDa, polypeptide 5	MSK1, MSPK1, RLPK	
RPS6KB1	Ribosomal protein S6 kinase, 70 kDa, polypeptide 1	P56K, S6K, S6K-beta-1, S6K1, STK14A, p70 S6KA, p70(S6K)-alpha, p70-S6K, p70-alpha	

RPS6KC1	Ribosomal protein S6 kinase, 52 kDa, polypeptide 1	RPK118, RSKL1, S6K-delta-1, S6PKh1, humS6PKh1	
RPS7	Ribosomal protein S7	DBA8, S7	
RPSA	Ribosomal protein SA	37LRP, 67LR, ICA3, LAMBR, LAMR1, LBP, LBP/p40, LRP, LRP/LR, NEM/1CHD4, SA, lamR, p40	
RPTN	Repetin	RP11-107M16.6	
RPTOR	Regulatory associated protein of MTOR, complex 1	KOG1, Mip1	
RPUSD4	RNA pseudouridylate synthase domain containing 4		
RRAGA	Ras-related GTP binding A	FIP-1, FIP1, RAGA	
RRAGB	Ras-related GTP binding B	RP11-465E19.1, RAGB, bA465E19.1	
RRAGD	Ras-related GTP binding D	RAGD, bA11D8.2.1	
RREB1	Ras responsive element binding protein 1	RP11-69L16.1, FINB, HNT, LZ321, RREB-1, Zep-1	
RRM1	Ribonucleotide reductase M1	R1, RIR1, RR1	
RRM2B	Ribonucleotide reductase M2 B (TP53 inducible)	MTDPS8A, MTDPS8B, P53R2	
RRN3P2	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 2		
RRP12	Ribosomal RNA processing 12 homolog (S. cerevisiae)	RP11-452K12.13-007, KIAA0690	
RRP15	Ribosomal RNA processing 15 homolog (S. cerevisiae)	CGI-115, KIAA0507	
RRP1B	Ribosomal RNA processing 1B	KIAA0179, NNP1L, Nnp1, PPP1R136, RRP1	
RSAD2	Radical S-adenosyl methionine domain containing 2	2510004L01Rik, cig33, cig5, vig1	
RSBN1	Round spermatid basic protein 1	RP11-324J2.1, ROSBIN	
RSL1D1	Ribosomal L1 domain containing 1	L12, CSIG, PBK1, UTP30	
RSPH3	Radial spoke 3 homolog (Chlamydomonas)	RSHL2, RSP3, dJ111C20.1	
RSPO2	R-spondin 2	UNQ9384/PRO34209, CRISTIN2	
RSRC1	Arginine/serine-rich coiled-coil 1	BM-011, SFRS21, SRrp53	
RSU1	Ras suppressor protein 1	RSP-1	
RTBDN	Retbindin		
RTEL1	Regulator of telomere elongation helicase 1	RP4-583P15.2, C20orf41, DKCA4, DKCB5, NHL, RTEL	
RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	GTL7, KIAA0252	
RTKN2	Rhotekin 2	RP11-531F24.1, PLEKHK1, bA531F24.1	
RTN1	Reticulon 1	NSP	
RTN3	Reticulon 3	ASYIP, HAP, NSPL2, NSPLII-A1, RTN3	
RUFY2	RUN and FYVE domain containing 2	RP11-153K11.2, RABIP4R, ZFYVE13	
RUFY3	RUN and FYVE domain containing 3	RIPX, SINGAR1	
RUNDC2A	RUN and FYVE domain containing 3	RIPX, SINGAR1	√
RUNDC3B	RUN domain containing 3B	RPIB9, RPIP9	

RUNX1	Runt-related transcription factor 1	AML1, AML1-EVI-1, AMLCR1, CBFA2, EVI-1, PEBP2aB	√
RUNX1T1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMYND2	
RUNX2	Runt-related transcription factor 2	RP1-166H4.1, AML3, CBF-alpha-1, CBFA1, CCD, CCD1, CLCD, OSF-2, OSF2, PEA2aA, PEBP2aA	
RUSC1	RUN and SH3 domain containing 1	RP11-21N7.4, NESCA	
RUVBL2	RuvB-like AAA ATPase 2	CGI-46, ECP51, INO80J, REPTIN, RVB2, TIH2, TIP48, TIP49B	
RWDD2B	RWD domain containing 2B	GL011, C21orf6	
RWDD3	RWD domain containing 3	RSUME	
RXRA	Retinoid X receptor, alpha	NR2B1	
RYR3	Ryanodine receptor 3	RYR-3	
S100PBP	S100P binding protein	S100PBPR	
S100Z	S100 calcium binding protein Z	Gm625, S100-zeta	
S1PR1	Sphingosine-1-phosphate receptor 1	CD363, CHEDG1, D1S3362, ECGF1, EDG-1, EDG1, S1P1	
S1PR2	Sphingosine-1-phosphate receptor 2	AGR16, EDG-5, EDG5, Gpcr13, H218, LPB2, S1P2	
S1PR3	Sphingosine-1-phosphate receptor 3	EDG-3, EDG3, LPB3, S1P3	
SACM1L	SAC1 suppressor of actin mutations 1-like (yeast)	SAC1	
SACS	sacsin molecular chaperone	ARSACS, DNAJC29, PPP1R138, SPAX6	
SAE1	SUMO1 activating enzyme subunit 1	AOS1, HSPC140, SUA1, UBLE1A	
SALL2	Spalt-like transcription factor 2	HSAL2, Sal-2, ZNF795, p150(Sal2)	
SAMD12	Sterile alpha motif domain containing 12		
SAMD3	Sterile alpha motif domain containing 3	RP11-73O6.2	
SAMD4A	Sterile alpha motif domain containing 4A	SAMD4, SMAUG, SMAUG1, SMG, SMGA	
SAMD4B	Sterile alpha motif domain containing 4B	SMGB, hSmaug2	
SAMD5	Sterile alpha motif domain containing 5	RP5-875H10.1, dJ875H10.1	
SAMD8	Sterile alpha motif domain containing 5	RP5-875H10.1, dJ875H10.1	
SAMD9	Sterile alpha motif domain containing 9	C7orf5, DRIF1, NFTC, OEF1, OEF2	
SAMD9L	Sterile alpha motif domain containing 9-like	C7orf6, DRIF2, UEF1	
SAMHD1	SAM domain and HD domain 1	RP1-132F21.1, CHBL2, DCIP, HDDC1, MOP-5, SBBI88	
SAP30BP	SAP30 binding protein	HCNGP, HTRG, HTRP	
SAP30L	SAP30-like	NS4ATP2	
SAPS3			
SAR1A	Secretion associated, Ras related GTPase 1A	RP11-367H5.4, SAR1, SARA1, Sara, masra2	
SAR1B	Secretion associated, Ras related GTPase 1B	ANDD, CMRD, GTBPB, SARA2	
SARM1	Sterile alpha and TIR motif containing 1	MyD88-5, SAMD2, SARM	

SARNP	SAP domain containing ribonucleoprotein	CIP29, HCC1, HSPC316, THO1	
SARS2	Seryl-tRNA synthetase 2, mitochondrial	SARS, SARSM, SERS, SYS, SerRS, SerRSmt, mtSerRS	
SASH1	SAM and SH3 domain containing 1	RP3-323M4.1, SH3D6A, dJ323M4, dJ323M4.1	
SAV1	Salvador family WW domain containing protein 1	SAV, WW45, WWP4	
SBF2	SET binding factor 2	CMT4B2, DENND7B, MTMR13	
SBK1	SH3 domain binding kinase 1	SBK	
SC5DL			
SCAI	Suppressor of cancer cell invasion	C9orf126, NET40	
SCAMP1	Secretory carrier membrane protein 1	SCAMP, SCAMP37	
SCAMP2	Secretory carrier membrane protein 2		
SCAND2	SCAN domain containing 2 pseudogene	SCAND2	
SCAND3			
SCAPER	S-phase cyclin A-associated protein in the ER	MSTP063, ZNF291, Zfp291	
SCARA5	Scavenger receptor class A, member 5	UNQ2938/PRO28700, NET33, Tesr	
SCARB2	Scavenger receptor class B, member 2	AMRF, CD36L2, LPM4, HLGP85, LGP85, LIMP-2, LIMPII, SR-BII	
SCARF1	Scavenger receptor class F, member 1	SREC, SREC-I, SREC1	
SCARNA5	small Cajal body-specific RNA 5		
SCD	Stearoyl-CoA desaturase (delta-9-desaturase)	PRO1933, FADS5, MSTP0081, SCDOS, SCD	
SCD5	Stearoyl-CoA desaturase 5	ACOD4, FADS4, HSCD5, SCD2, SCD4	
SCFD1	Sec1 family domain containing 1	FKSG23, C14orf163, RA410, SLY1, SLY1P, STXBP1L2	
SCG5	Secretogranin V (7B2 protein)	7B2, P7B2, SGNE1, SgV	
SCGB1D1	Secretoglobin, family 1D, member 1	LIPA, LPHA, LPNA	
SCGB1D2	Secretoglobin, family 1D, member 2	LIPB, LPHB, LPNB	
SCHIP1	Schwannomin interacting protein 1	SCHIP-1	
SCLT1	Sodium channel and clathrin linker 1	CAP-1A, CAP1A	
SCLY	Selenocysteine lyase	SCL, hSCL	
SCML1	Sex comb on midleg-like 1 (Drosophila)	RP3-389A20.1	
SCML2	Sex comb on midleg-like 2 (Drosophila)	RP5-1129A6.3	
SCML4	Sex comb on midleg-like 4 (Drosophila)	RP1-47M23.1, dJ47M23.1	
SCN11A	Sodium channel, voltage-gated, type XI, alpha subunit	FEPS3, HSAN7, NAV1.9, NaN, PN5, SCN12A, SNS-2	
SCN1A	Sodium channel, voltage-gated, type I, alpha subunit	EIEE6, FEB3, FEB3A, FHM3, GEFSP2, HBSCI, NAC1, Nav1.1, SCN1, SMEI	
SCN1B	Sodium channel, voltage-gated, type I, beta subunit	ATFB13, BRGDA5, GEFSP1	
SCN2B	Sodium channel, voltage-gated, type II, beta subunit	UNQ326/PRO386, ATFB14	

SCN3A	Sodium channel, voltage-gated, type III, alpha subunit	NAC3, Nav1.3	
SCN3B	Sodium channel, voltage-gated, type III, beta subunit	ATFB16, BRGDA7, HSA243396, SCNB3	
SCN4A	Sodium channel, voltage-gated, type IV, alpha subunit	HOKPP2, HYKPP, HYPP, NAC1A, Na(V)1.4, Nav1.4, SkM1	
SCN4B	Sodium channel, voltage-gated, type IV, beta subunit	ATFB17, LQT10, Navbeta4	
SCN8A	Sodium channel, voltage gated, type VIII, alpha subunit	CERIII, CIAT, EIEE13, MED, NaCh6, Nav1.6, PN4	
SCN9A	Sodium channel, voltage-gated, type IX, alpha subunit	ETHA, FEB3B, GEFSP7, NE-NA, NENA, Nav1.7, PN1, SFNP	
SCOC	Short coiled-coil protein	HRIHFB2072O, SCOC	
SCP2	Sterol carrier protein 2	NLTP, NSL-TP, SCP-2, SCP-CHI, SCP-X, SCPX	
SCRN1	Secernin 1	SES1	
SCRN2	Secernin 2	SES2	
SCRN3	Secernin 3	SES3	
SCUBE1	Signal peptide, CUB domain, EGF-like 1		
SCUBE3	Signal peptide, CUB domain, EGF-like 3	CEGF3	
SDAD1	SDA1 domain containing 1		
SDC2	Syndecan 2	CD362, HSPG, HSPG1, SYND2	
SDC3	Syndecan 3	SDCN, SYND3	
SDC4	Syndecan 4	SYND4	√
SDCBP	Syndecan binding protein (syntenin)	MDA-9, ST1, SYCL, TACIP18	
SDF2L1	Stromal cell-derived factor 2-like 1	UNQ1941/PRO4424	
SDHAF1	Succinate dehydrogenase complex assembly factor 1	LYRM8	
SDHAP2	Succinate dehydrogenase complex, subunit A, flavoprotein pseudogene 2		
SDK1	Sidekick cell adhesion molecule 1		
SDPR	Serum deprivation response	CAVIN2, PS-p68, SDR, cavin-2	
SDR42E1	Short chain dehydrogenase/reductase family 42E, member 1	HSPC105	
SEC1			
SEC11A	SEC11 homolog A *(S. cerevisiae)*	1810012E07Rik, SEC11L1, SPC18, SPCS4A, sid2895	
SEC14L5	SEC14-like 5 *(S. cerevisiae)*	PRELID4B	
SEC16A	SEC16 homolog A *(S. cerevisiae)*	RP11-413M3.10, KIAA0310, SEC16L, p250	
SEC16B	SEC16 homolog B *(S. cerevisiae)*	LZTR2, PGPR-p117, RGPR, SEC16S	
SEC22A	SEC22 vesicle trafficking protein homolog A (*S. cerevisiae*)	SEC22L2	
SEC22C	SEC22 vesicle trafficking protein homolog C (*S. cerevisiae*)	UNQ459/PRO784, SEC22L3	
SEC23IP	SEC23 interacting protein	MSTP053, P125, P125A	
SEC24A	SEC24 family member A		

SEC24B	SEC24 family member B	SEC24	
SEC24C	SEC24 family member C		
SEC24D	SEC24 family member D		
SEC31B	SEC31 homolog B *(S. cerevisiae)*	SEC31B-1, SEC31L2	
SEC61A2	Sec61 alpha 2 subunit *(S. cerevisiae)*		
SEC62	SEC62 homolog *(S. cerevisiae)*	Dtrp1, HTP1, TLOC1, TP-1	
SEC63	SEC63 homolog *(S. cerevisiae)*	RP1-191J18.4, DNAJC23, ERdj2, PRO2507L, SEC63	
SECISBP2	SECIS binding protein 2	RP11-89K14.1, SBP2	
SEL1L	Sel-1 suppressor of lin-12-like *(C. elegans)*	UNQ128/PRO1063, PRO1063, SEL1-LIKE1, SEL1L	
SEL1L3	Sel-1 suppressor of lin-12-like 3 (C. *elegans)*	Sel-1L3	
SELE	Selectin E	RP1-117P20.2, CD62E, ELAM, ELAM1, ESEL, LECAM2	
SELK	Selenoprotein K	HSPC030HSPC297, SelK	
SELT	Selenoprotein T	UNQ150/PRO176	
SEMA3B	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	LUCA-1, SEMA5, SEMAA, SemA, semaV	
SEMA3C	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	SEMAE, SemE	
SEMA3D	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	UNQ760/PRO1491, Sema-Z2, coll-2	
SEMA3E	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	M-SEMAH, M-SemaK, SEMAH, coll-5	
SEMA3G	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	sem2	
SEMA4C	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	UNQ5855/PRO34487, M-SEMA-F, SEMACL1, SEMAF, SEMAI	
SEMA4D	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	XXyac-YM68G7.1, C9orf164, CD100, M-sema-G, SEMAJ, coll-4	
SEMA4F	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	M-SEMA, PRO2353, S4F, SEMAM, SEMAW, m-Sema-M	
SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	RP11-108L7.1	
SEMA5A	Sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane	SEMAF, semF	
SEMA6D	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D		
SENP1	SUMO1/sentrin specific peptidase 1	SuPr-2	
SENP2	SUMO1/sentrin/SMT3 specific peptidase 2	AXAM2, SMT3IP2	
SENP5	SUMO1/sentrin specific peptidase 5	FKSG45	
SENP7	SUMO1/sentrin specific peptidase 7		
SEPSECS	Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	LP, PCH2D, SLA, SLA/LP	
SEPT1	Septin 1	DIFF6, LARP, PNUTL3, SEP1	
SEPT11	Septin 11		
SEPT18			
SEPT2	Septin 2	DIFF6, NEDD-5, NEDD5, Pnutl3, hNedd5	

SEPT3	Septin 3	CTA-250D10.3, SEP3, bK250D10.3	
SEPT5	Septin5	CDCREL, CDCREL-1, CDCREL1, H5, HCDCREL-1, PNUTL1	
SEPT6	Septin6	RP5-876A24.2, SEP2, SEPT2	√
SEPT8	Septin8	SEP2	
SERHL	Serine hydrolase-like	CTA-126B4.2, BK126B4.1, BK126B4.2, H3126B42, dJ222E13.1	
SERHL2	Serine hydrolase-like 2	RP1-222E13.11-003, dJ222E13.1	
SERINC1	Serine incorporator 1	UNQ396/PRO732, TDE1L, TDE2, TMS-2, TMS2	
SERP1	Stress-associated endoplasmic reticulum protein 1	RAMP4	
SERP2	Stress-associated endoplasmic reticulum protein family member 2	RP11-269C23.1, C13orf21, bA269C23.1	
SERPINA1	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	PRO0684, A1A, A1AT, AAT, PI, PI1, PRO2275, alpha1AT	
SERPINA3	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	GIG24, AACT, ACT, GIG25	
SERPINA7	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7	RP1-82J11.2, TBG	
SERPINB11	Serpin peptidase inhibitor, clade B (ovalbumin), member 11 (gene/pseudogene)	EPIPIN, SERPIN11	
SERPINB13	Serpin peptidase inhibitor, clade B (ovalbumin), member 13	HSHUR7SEQ, HUR7, PI13, headpin	
SERPINB5	Serpin peptidase inhibitor, clade B (ovalbumin), member 5	PI5, maspin	
SERPINB9	Serpin peptidase inhibitor, clade B (ovalbumin), member 9	CAP-3, CAP3, PI-9, PI9	
SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	PAI, PAI-1, PAI1, PLANH1	
SERPINF2	Serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2	GDN, GDNPF, PI-7, PI7, PN-1, PN1, PNI	
SERPINI1	Serpin peptidase inhibitor, clade I (neuroserpin), member 1	PI12, neuroserpin	
SERTAD2	SERTA domain containing 2	Sei-2, TRIP-Br2	
SERTAD4	SERTA domain containing 4	DJ667H12.2	
SESN3	Sestrin 3	SEST3	
SESTD1	SEC14 and spectrin domains 1	SOLO	
SETBP1	SET binding protein 1	SEB	√
SETD1B	SET domain containing 1B	KMT2G, Set1B	
SETD4	SET domain containing 4	C21orf18, C21orf27	
SETD7	SET domain containing (lysine methyltransferase) 7	KMT7, SET7, SET7/9, SET9	
SETDB2	SET domain, bifurcated 2	C13orf4, CLLD8, CLLL8, KMT1F	
SETMAR	SET domain and mariner transposase fusion gene	HsMar1, METNASE, Mar1	
SETX	Senataxin	RP11-203M2.2, ALS4, AOA2, SCAR1, bA479K20.2	
SEZ6L	Seizure related 6 homolog (mouse)-like	RP3-341O5.1	
SF1	Splicing factor 1	BBP, D11S636, MBBP, ZCCHC25, ZFM1, ZNF162	
SF3A1	Splicing factor 3a, subunit 1, 120 kDa	PRP21, PRPF21, SAP11420, SF3A1	

SF3A3	Splicing factor 3a, subunit 3, 60 kDa	PRP9, PRPF9, SAP61, SF3a60	
SF3B1	Splicing factor 3b, subunit 1, 155 kDa	Hsh155, MDS, PRP10, PRPF10, SAP155, SF3b155	√
SF3B3	Splicing factor 3b, subunit 3, 130 kDa	RSE1, SAP130, SF3b130, STAF130	
SF4	SURP and G patch domain containing 1	F23858, RBP, SF4	
SFMBT2	Scm-like with four mbt domains 2	RP11-393K12.3	
SFRP4	Secreted frizzled-related protein 4	FRP-4, FRPHE, sFRP-4	
SFRP5	Secreted frizzled-related protein 5	SARP3	
SFRS1			
SFRS11	Serine/arginine-rich splicing factor 11	RP4-677H15.3, NET2, SFRS11, dJ677H15.2, p54	
SFRS12	Splicing regulatory glutamine/lysine-rich protein 1	SFRS12, SRrp508, SRrp86	
SFRS12IP1	SREK1-interacting protein 1	P18SRP, SFRS12IP1	
SFRS13A	Serine/arginine-rich splicing factor 10	RP11-4M23.6, FUSIP1, FUSIP2, N33K, PPP1R149, SFRS13, SFRS13A, SRp38, SRrp40, TASR, TASR1	
SFRS13B			
SFRS14			
SFRS17A			
SFRS18			
SFRS2B			
SFRS2IP			
SFRS3	Serine/arginine-rich splicing factor 3	SFRS3, SRp20	√
SFRS5			
SFRS7			
SFT2D1	SFT2 domain containing 1	C6orf83, pRGR1	
SFT2D2	SFT2 domain containing 2	RP4-747L4.1, UNQ512, dJ747L4.C1.2	
SFTPA1	Surfactant protein A1	RP11-389B3.2, COLEC4, PSAP, PSP-A, PSPA, SFTP1B, SP-A, SP-A1, SPA, SPA1, SFTPA1	
SFTPB	Surfactant protein B	PSP-B, SFTB3, SFTP3, SMDP1, SP-B	
SFXN1	Sideroflexin 1		
SFXN2	Sideroflexin 2	RP11-47A8.2	
SFXN3	Sideroflexin 3	RP11-108L7.3, BA108L7.2, SFX3	
SFXN5	Sideroflexin 5	BBG-TCC	
SGCB	Sarcoglycan, beta (43 kDa dystrophin-associated glycoprotein)	A3b, LGMD2E, SGC	
SGCD	Sarcoglycan, delta (35 kDa dystrophin-associated glycoprotein)	35DAG, CMD1L, DAGD, SG-deltaP, SGD, SGCD	
SGCE	Sarcoglycan, epsilon	UNQ433/PRO840, DYT11, ESG	
SGCZ	Sarcoglycan, zeta	ZSG1	

SGEF			
SGIP1	SH3-domain GRB2-like (endophilin) interacting protein 1	RP11-266I14.1	
SGK1	Serum/glucocorticoid regulated kinase 1	RP1-188K17.1, SGK	
SGK2	Serum/glucocorticoid regulated kinase 2	RP1-138B7.2, H-SGK2, dJ138B7.2	
SGK269	Pseudopodium-enriched atypical kinase 1	SGK269	
SGK3	Serum/glucocorticoid regulated kinase family, member 3	CISK, SGK2, SGKL	
SGMS1	Sphingomyelin synthase 1	MOB, MOB1, SMS1, TMEM23, hmob33	
SGMS2	Sphingomyelin synthase 2	SMS2	
SGOL2	Shugoshin-like 2 (S. pombe)	SGO2, TRIPIN	
SGPP1	Sphingosine-1-phosphate phosphatase 1	SPPase1	
SGSH	N-sulfoglucosamine sulfohydrolase	HSS, MPS3A, SFMD	
SGSM2	Small G protein signaling modulator 2	RUTBC1	
SGTB	Small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta	SGT2	
SH2B3	SH2B adaptor protein 3	IDDM20, LNK	√
SH2D1B	SH2 domain containing 1B	EAT2	
SH2D3C	SH2 domain containing 3C	RP11-56D16.1, CHAT, NSP3, PRO34088, SHEP1	
SH2D4A	SH2 domain containing 4A	PPP1R38, SH2A	
SH2D4B	SH2 domain containing 4B	RP11-514F8.1	
SH2D6	SH2 domain containing 6		
SH2D7	SH2 domain containing 7	hCG_38941	
SH3BP2	SH3-domain binding protein 2	RES4-23, 3BP-2, 3BP2, CRBM, CRPM	
SH3GLB1	SH3-domain GRB2-like endophilin B1	CGI-61, Bif-1, PPP1R70, dJ612B15.2	
SH3KBP1	SH3-domain kinase binding protein 1	RP11-345L8.1, CD2BP3, CIN85, GIG10, H3B-1, H3B1, MIG18	
SH3PXD2B	SH3 and PX domains 2B	FAD49, FTHS, HOFI, KIAA1295, TKS4, TSK4	
SH3RF1	SH3 domain containing ring finger 1	POSH, RNF142, SH3MD2	
SH3RF3	SH3 domain containing ring finger 3	POSH2, SH3MD4	
SH3TC2	SH3 domain and tetratricopeptide repeats 2	PP12494, CMT4C, MNMN	
SHANK2	SH3 and multiple ankyrin repeat domains 2	AU1317, CORTBP1, CTTNBP1, PI03AP1, SHANK, SPANK-2	
SHANK3	SH3 and multiple ankyrin repeat domains 3	DEL22q13.3, PROSAP2, PSAP2, SCZD15, SPANK-2	
SHB	Src homology 2 domain containing adaptor protein B		
SHC4	SHC (Src homology 2 domain containing) family, member 4	UNQ6438/PRO21364, RaLP, SHCD	
SHE	Src homology 2 domain containing E	RP11-350G8.8	
SHISA6	Shisa family member 6		

SHISA9	Shisa family member 9	CKAMP44	
SHMT1	Serine hydroxymethyltransferase 1 (soluble)	CSHMT, SHMT	
SHOC2	SOC-2 suppressor of clear homolog (C. elegans)	RP11-348N5.2, SIAA0862, SOC2, SUR8	
SHOX	Short stature homeobox	GCFX, PHOGY, SS, SHOX	
SHOX2	Short stature homeobox 2	OG12, OG12X, SHOT	
SHPRH	SNF2 histone linker PHD RING helicase, E3 ubiquitin protein ligase	RP11-545I5.1, bA545I5.2	
SHQ1	SHQ1, H/ACA ribonucleoprotein assembly factor	Shq1p	
SHROOM3	Shroom family member 3	MSTP013, APXL3, SHRM, ShrmL	
SIAE	Sialic acid acetylesterase	AIS6, CSE-C, CSEC, LSE, YSG2	
SIAH3	Siah E3 ubiquitin protein ligase family member 3	RP11-480G1.1	
SIDT2	SID1 transmembrane family, member 2	CGI-40	
SIGLEC1	Sialic acid binding Ig-like lectin 1, sialoadhesin	CD169, SIGLEC-1, SN, dJ1009E24.1	
SIGLEC14	Sialic acid binding Ig-like lectin 14	UNQ294	
SIGLECP3	Sialic acid binding Ig-like lectin, pseudogene 3	SIGLECP2	
SIK2	Salt-inducible kinase 2	LOH11CR1I, QIK, SNF1LK2	
SIK3	SIK family kinase 3	L19, QSK, SIK-3	
SIKE1	Suppressor of IKBKE 1	RP5-1000E10.4, SIKE	
SIN3A	SIN3 transcription regulator family member A		
SIN3B	SIN3 transcription regulator family member B		
SIP1			
SIPA1L2	Signal-induced proliferation-associated 1 like 2	SPAL2	
SIRPA	Signal-regulatory protein alpha	RP4-664O24.2, BIT, CD172A, MFR, MYD-1, P84, PTPNS1, SHPS1, SIRP	
SIRPB2	Signal-regulatory protein beta 2	RP4-776F14.1, PTPN1L, PTPNS1L3, dJ776F14.2	
SIRT1	Sirtuin 1	RP11-57G10.3, SIR2L1	
SIRT3	Sirtuin 3	SIR2L3	
SIRT5	Sirtuin 5	SIR2L5	
SIX2	SIX homeobox 2		
SIX4	SIX homeobox 4	AREC3	
SKA2	Spindle and kinetochore associated complex subunit 2	FAM33A	
SKAP2	Src kinase associated phosphoprotein 2	PRAP, RA70, SAPS, SCAP2, SKAP-HOM, SKAP55R	
SKIL	SKI-like proto-oncogene	SNO, SnoA, SnoI, SnoN	
SKIV2L2	Superkiller viralicidic activity 2-like 2 (S. cerevisiae)	Dob1, KIAA0052, Mtr4, fSAP118	
SKP1	S-phase kinase-associated protein 1	EMC19, OCP-II, OCP2A, TCEB1L, p19A, SKP1	

SLA	Src-like-adaptor	SLA1P, SLA	
SLAIN1	SLAIN motif family, member 1	RP11-188A23.1, C13orf32	
SLAIN2	SLAIN motif family, member 2	KIAA1458	
SLAMF6	SLAM family member 6	RP11-328G1.1, CD352, KALI, KALIb, Ly108, NTB-A, NTBA, SF2000	
SLAMF7	SLAM family member 7	UNQ576/PRO1138, 19A, CD319, CRACC, CS1	
SLC10A7	Solute carrier family 10, member 7	PSEC0051, C4orf13, P7	
SLC11A1	Solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1	LSH, NRAMP, NRAMP1	
SLC11A2	Solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2	OK/SW-cl.20, DCT1, DMT1, NRAMP2	
SLC12A2	Solute carrier family 12 (sodium/potassium/chloride transporter), member 2	BSC, BSC2, NKCC1, PPP1R141	
SLC12A3	Solute carrier family 12 (sodium/chloride transporter), member 3	NCC, NCCT, TSC	
SLC12A5	Solute carrier family 12 (potassium/chloride transporter), member 5	RP11-465L10.5, KCC2	
SLC12A8	Solute carrier family 12, member 8	CCC9	
SLC13A3	Solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	RP1-257E24.1, NADC3, SDCT2	
SLC13A4	Solute carrier family 13 (sodium/sulfate symporter), member 4	SUT-1, SUT1	
SLC14A1	Solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	HUT11, hs11341, JK, RACH1, RACH2, UT-B1, UT1, UTE	
SLC16A1	Solute carrier family 16 (monocarboxylate transporter), member 1	RP4-580L15.1, HHF7, MCT, MCT1	
SLC16A14	Solute carrier family 16, member 14	MCT14	
SLC16A2	Solute carrier family 16, member 2 (thyroid hormone transporter)	RP11-449M9.1, AHDS, DXS128, DXS128E, MCT 7, MCT 8, MCT7, MCT8, MRX22, XPCT	
SLC16A4	Solute carrier family 16, member 4	RP5-1074L1.3, MCT4, MCT5	
SLC16A6	Solute carrier family 16, member 6	MCT6, MCT7	
SLC16A9	Solute carrier family 16, member 9	C10orf36, MCT9	
SLC17A2	Solute carrier family 17, member 2	NPT3	
SLC17A3	Solute carrier family 17 (organic anion transporter), member 3		
SLC17A6	Solute carrier family 17 (vesicular glutamate transporter), member 6	DNPI, VGLUT2	
SLC17A7	Solute carrier family 17 (vesicular glutamate transporter), member 7	BNPI, VGLUT1	
SLC17A8	Solute carrier family 17 (vesicular glutamate transporter), member 8	DFNA25, VGLUT3	
SLC19A2	Solute carrier family 19 (thiamine transporter), member 2		
SLC19A3	Solute carrier family 19 (thiamine transporter), member 3	BBGD, THMD2, THTR2	
SLC1A2	Solute carrier family 1 (glial high affinity glutamate transporter), member 2	EAAT2, GLT-1	
SLC1A3	Solute carrier family 1 (glial high affinity glutamate transporter), member 3	EA6, EAAT1, GLAST, GLAST1	
SLC1A4	Solute carrier family 1 (high affinity glutamate transporter), member 4	ASCT1, SATT	
SLC20A1	Solute carrier family 20 (phosphate transporter), member 1	GLVR1, Glvr-1, PIT1, PiT-1	
SLC22A12	Solute carrier family 22 (organic anion/urate transporter), member 12	UNQ6453/PRO34004, OAT4L, RST, URAT1	

SLC22A14	Solute carrier family 22, member 14	OCTL2, OCTL4, ORCTL4	
SLC22A15	Solute carrier family 22, member 15	UNQ9429/PRO34686, FLIPT1, PRO34686	
SLC22A2	Solute carrier family 22 (organic cation transporter), member 2	RP11-317M22.2, OCT2	
SLC22A23	Solute carrier family 22, member 23	RP11-506K6.2, C6orf85	
SLC22A25	Solute carrier family 22, member 25	HIMTP, UST6	
SLC22A3	Solute carrier family 22 (organic cation transporter), member 3	RP11-72O9.3, EMT, EMTH, OCT3	
SLC22A5	Solute carrier family 22 (organic cation/carnitine transporter), member 5	CDSP, OCTN2, OCTN2VT	
SLC22A8	Solute carrier family 22 (organic anion transporter), member 8	OAT3	
SLC22A9	Solute carrier family 22 (organic anion transporter), member 9	HOAT4, OAT4, OAT7, UST3H, ust3	
SLC23A2	Solute carrier family 23 (ascorbic acid transporter), member 2	RP1-237C24.1, NBTL1, SLC23A1, SVCT2, YSPL2	
SLC24A1	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 1	CSNB1D, HsT17412, NCKX, NCKX1, RODX	
SLC24A3	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	RP1-122P22.1, NCKX3	
SLC24A4	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	AI2A5, NCKX4, SHEP6, SLC24A2	
SLC25A12	Solute carrier family 25 (aspartate/glutamate carrier), member 12	AGC1, ARALAR	
SLC25A15	Solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15	RP11-346L13.4, D13S327, HHH, ORC1, ORNT1	
SLC25A2	Solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 2	ORC2, ORNT2	
SLC25A21	Solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21	ODC, ODC1	
SLC25A24	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24	RP11-356N1.3, APC1, SCAMC-1	
SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	RP11-395P17.4, MCSC, PCSCL, SCAMC-2	
SLC25A27	Solute carrier family 25, member 27	RP11-446F17.2, UCP4	
SLC25A29	Solute carrier family 25 (mitochondrial carnitine/acylcarnitine carrier), member 29	C14orf69, CACL, ORNT3	
SLC25A30	Solute carrier family 25, member 30	KMCP1	
SLC25A32	Solute carrier family 25 (mitochondrial folate carrier), member 32	MFT, MFTC	
SLC25A36	Solute carrier family 25 (pyrimidine nucleotide carrier), member 36	PNC2	
SLC25A37	Solute carrier family 25 (pyrimidine nucleotide carrier), member 37	HT015, MFRN, MFRN1, MSC, MSCP, PRO1278, PRO1584, PRO2317	
SLC25A38	Solute carrier family 25, member 38		
SLC25A4	Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator)	1, AAC1, ANT, ANT 1, ANT1, MTDP3I2, PEO2, PEO3, T1	
SLC25A40	Solute carrier family 25, member 40	MCFP	
SLC25A44	Solute carrier family 25, member 44	RP11-54H19.3	
SLC26A2	Solute carrier family 26 (anion exchanger), member 2	D5S1708, DTD, DTDST, EDM4, MST153, MSTP157	
SLC26A4	Solute carrier family 26 (anion exchanger), member 4	DFNB4, EVA, PDS, TDH2B	
SLC26A7	Solute carrier family 26 (anion exchanger), member 7	SUT2	
SLC26A9	Solute carrier family 26 (anion exchanger), member 9		

SLC27A3	Solute carrier family 27 (fatty acid transporter), member 3	PSEC0067, ACSVL3, FATP3, VLCS-3	
SLC2A1	Solute carrier family 2 (facilitated glucose transporter), member 1	DYT17, DYT18, DYT9, EIG12, GLUT, GLUT1, GLUT1DS, HTLVR, RED	
SLC2A12	Solute carrier family 2 (facilitated glucose transporter), member 12	GLUT12, GLUT8	
SLC2A13	Solute carrier family 2 (facilitated glucose transporter), member 13	HMIT	
SLC2A3	Solute carrier family 2 (facilitated glucose transporter), member 3	GLUT3	
SLC30A10	Solute carrier family 30, member 10	HMDPC, ZNT10, ZNT8, ZRC1, ZnT-10	
SLC30A7	Solute carrier family 30 (zinc transporter), member 7	RP11-30G24.1, ZNT7, ZnT-7, ZnTL2	
SLC30A8	Solute carrier family 30 (zinc transporter), member 8	ZNT8, ZnT-8	
SLC30A9	Solute carrier family 30 (zinc transporter), member 9	C4orf1, GAC63, HUEL, ZNT9	
SLC31A1	Solute carrier family 31 (copper transporter), member 1	RP11-110L1.1, COPT1, CTR1	
SLC33A1	Solute carrier family 33 (acetyl-CoA transporter), member 1	ACATN, AT-1, AT1, CCHLND, SPG42	
SLC34A2	Solute carrier family 34 (type II sodium/phosphate cotransporter), member 2	NAPI-3B, NAPI-IIb, NPTIIb	√
SLC35A1	Solute carrier family 35 (CMP-sialic acid transporter), member A1	CDG2F, CMPST, CST, hCST	
SLC35A2	Solute carrier family 35 (CMP-sialic acid transporter), member A2	CDG2M, CDGX, UDP-Gal-T1, UGALT, UGAT, UGT, UGT1, UGT2, UGTL	
SLC35A4	Solute carrier family 35, member A4		
SLC35B4	Solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4	PSEC0055, YEA, YEA4	
SLC35C2	Solute carrier family 35 (GDP-fucose transporter), member C2	RP11-394O2.1, BA394O2.1, C20orf5, CGI-15, OVCOV1	
SLC35D1	Solute carrier family 35 (UDP-GlcA/UDP-GalNAc transporter), member D1	UGTREL7	
SLC35D2	Solute carrier family 35 (UDP-GlcNAc/UDP-glucose transporter), member D2	RP11-240L7.2, HFRC1, SQV7L, UGTrel8, hfrc	
SLC35D3	Solute carrier family 35, member D3	FRCL1, bA55K22.3	
SLC35E1	Solute carrier family 35, member E1	PSEC0038	
SLC35E2	Solute carrier family 35, member E2	RP1-283E3.5	
SLC35E3	Solute carrier family 35, member E3	UNQ3043/PRO9859, BLOV1	
SLC35F1	Solute carrier family 35, member F1	RP1-230I3.1, C6orf169, dJ230I3.1	
SLC35F3	Solute carrier family 35, member F3		
SLC35F4	Solute carrier family 35, member F4	C14orf36, c14_5373	
SLC36A1	Solute carrier family 36 (proton/amino acid symporter), member 1	Dct1, LYAAT1, PAT1, TRAMD3	
SLC37A3	Solute carrier family 37, member 3		
SLC38A1	Solute carrier family 38, member 1	ATA1, NAT2, SAT1, SNAT1	
SLC38A10	Solute carrier family 38, member 10	PP1744	
SLC38A2	Solute carrier family 38, member 2	ATA2, PRO1068, SAT2, SNAT2	
SLC38A4	Solute carrier family 38, member 4	ATA3, NAT3, PAAT	
SLC38A6	Solute carrier family 38, member 6	NAT-1	

SLC39A10	Solute carrier family 39 (zinc transporter), member 10	LZT-Hs2	
SLC39A11	Solute carrier family 39, member 11	C17orf26, ZIP11	
SLC39A12	Solute carrier family 39 (zinc transporter), member 12	LZT-Hs8, ZIP-12, bA570F3.1	
SLC39A13	Solute carrier family 39 (zinc transporter), member 13		
SLC39A14	Solute carrier family 39 (zinc transporter), member 14	LZT-Hs4, NET34, ZIP14, cig19	
SLC39A3	Solute carrier family 39 (zinc transporter), member 3	ZIP-3, ZIP3	
SLC39A6	Solute carrier family 39 (zinc transporter), member 6	LIV-1	
SLC39A8	Solute carrier family 39 (zinc transporter), member 8	PP3105, BIGM103, LZT-Hs6, ZIP8	
SLC39A9	Solute carrier family 39 (zinc transporter), member 9	UNQ714/PRO1377, ZIP-9, ZIP9	
SLC3A1	Solute carrier family 3 (amino acid transporter), member 1	ATR1, CSNU1, D2H, NBAT, RBAT	
SLC41A2	Solute carrier family 41 (magnesium transporter), member 2	SLC41A1-L1	
SLC43A1	Solute carrier family 43 (amino acid system L transporter), member 1	LAT3, PB39, POV1, R00504	
SLC44A1	Solute carrier family 44 (choline transporter), member 1	RP11-287A8.1, CD92, CDW92, CHTL1, CTL1	
SLC44A5	Solute carrier family 44, member 5	CTL5	
SLC45A1	Solute carrier family 45, member 1	DNB5	
SLC45A4	Solute carrier family 45, member 4		
SLC46A1	Solute carrier family 46 (folate transporter), member 1	G21, HCP1, PCFT	
SLC46A2	Solute carrier family 46, member 2	Ly110, TSCOT	
SLC48A1	Solute carrier family 48 (heme transporter), member 1	HRG-1, HRG1, hHRG-1	
SLC4A10	Solute carrier family 4, sodium bicarbonate transporter, member 10	NBCn2, NCBE	
SLC4A4	Solute carrier family 4 (sodium bicarbonate cotransporter), member 4	hNBC1, kNBC, NBC1, NBC2, NBCe1-A, SLC4A5, hkNMG, pNBC	
SLC4A7	Solute carrier family 4, sodium bicarbonate cotransporter, member 7	NBC2, NBC3, NBCN1, SBC2, SLC4A6	
SLC4A8	Solute carrier family 4, sodium bicarbonate cotransporter, member 8	NBC3, NDCBE	
SLC5A1	Solute carrier family 5 (sodium/glucose cotransporter), member 1	RP1-127L4.1, D22S675, NAGT, SGLT1	
SLC5A12	Solute carrier family 5 (sodium/monocarboxylate cotransporter), member 12	SMCT2	
SLC5A3	Solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	BCW2, SMIT, SMIT1, SMIT2	
SLC5A8	Solute carrier family 5 (sodium/monocarboxylate cotransporter), member 8	AIT, SMCT, SMCT1	
SLC5A9	Solute carrier family 5 (sodium/sugar cotransporter), member 9	SGLT4	
SLC6A11	Solute carrier family 6 (neurotransmitter transporter), member 11	GAT-3, GAT3, GAT4	
SLC6A12	Solute carrier family 6 (neurotransmitter transporter), member 12	BGT-1, BGT1, GAT2	
SLC6A16	Solute carrier family 6, member 16	NT5, NTT5	
SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20	SIT1, XT3, Xtrp3	
SLC6A6	Solute carrier family 6 (neurotransmitter transporter), member 6	TAUT	

SLC7A1	Solute carrier family 7 (cationic amino acid transporter), member 1	RP11-274A8.1, ATRC1, CAT-1, ERR, HCAT1, REC1L	
SLC7A11	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	CCBR1, xCT	
SLC7A13	Solute carrier family 7 (anionic amino acid transporter), member 13	AGT-1, AGT1, XAT2	
SLC7A14	Solute carrier family 7, member 14	PPP1R142	
SLC7A2	Solute carrier family 7 (cationic amino acid transporter), member 2	ATRC2, CAT2, HCAT2	
SLC7A5P2	Solute carrier family 7 (amino acid transporter light chain, L system), member 5	IMAA, MMAA	
SLC7A6	Solute carrier family 7, member 6 opposite strand	LAT-2, LAT3, y+LAT-2	
SLC7A6OS	Solute carrier family 8 (sodium/calcium exchanger), member 1		
SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 3	NCX1	
SLC8A3	Solute carrier family 9, subfamily A (NHE2, cation proton antiporter 2), member 2	NCX3	
SLC9A1	Solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3		
SLC9A2	Solute carrier family 9, subfamily A (NHE6, cation proton antiporter 6), member 6	NHE2	
SLC9A3R1	Solute carrier family 9, subfamily A (NHE8, cation proton antiporter 8), member 8	EBP50, NHERF, NHERF-1, NHERF1, NPHLOP2	
SLC9A6	Solute carrier organic anion transporter family, member 1A2	RP11-274K13.1, MRSA, NHE6	
SLC9A8	Solute carrier organic anion transporter family, member 1B1	RP5-963K23.3, NHE-8, NHE8	
SLCO1A2	Solute carrier organic anion transporter family, member 2A1	OATP, OATP-A, OATP1A2, SLC21A3	
SLCO1B1	Solute carrier organic anion transporter family, member 4A1	HBLRR, LST-1, LST1, OATP-C, OATP1B1, OATP2, OATPC, SLC21A6	
SLCO3A1	Solute carrier organic anion transporter family, member 4C1	OATP-D, OATP3A1, OATPD, SLC21A11	
SLCO4A1	Solute carrier organic anion transporter family, member 5A1	OATP-E, OATP1, OATP4A1, OATPE, OATPRP1, POAT-fl, SLC21A12-M1, OATP4C1, OATPX, PRO2176, SLC21A20	
SLCO4C1	Schlafen family member 11	OATP-J, OATP-RP4, OATP5A1, OATPRP4, SLC21A15	
SLCO5A1	Schlafen family member 13	SLFN8/9	
SLFN11	Schlafen family member 5	SLFN10	
SLFN13	Schlafen-like 1		
SLFN5	Slit homolog 1 (Drosophila)	RP11-348A7.4	
SLFNL1	Slit homolog 2 (Drosophila)	RP11-175O19.2, MEGF4, SLIL1, SLIT-1, SLIT3	
SLIT1	SLIT and NTRK-like family, member 1	SLIL3, Slit-2	
SLIT2	SLIT and NTRK-like family, member 2	UNQ233/PRO266, LRRC12, TTM	
SLITRK1	SLIT and NTRK-like family, member 3	UNQ9197/PRO34756, CXorf2, SLITL1	
SLITRK2	STE20-like kinase		
SLITRK3	Sarcolemma associated protein	LOSK, STK2, bA16H23.1, se20-9	
SLK	Sarcolipin	UNQ1847/PRO3577, SLAP	
SLMAP			
SLN			

SLTM	SAFB-like, transcription modulator	Met	
SLU7	SLU7 splicing factor homolog (S. cerevisiae)	9G8, hSlu7	
SMA5	Glucuronidase, beta pseudogene		
SMAD2	SMAD family member 2	JV18, JV18-1, MADH2, MADR2, hMAD-2, hSMAD2	
SMAD3	SMAD family member 3	HSPC193, HsT17436, JV15-2, LDS1C, LDS3, MADH3	
SMAD5	SMAD family member 5	DWFC, JV5-1, MADH5	
SMAD7	SMAD family member 7	CRCS3, MADH7, MADH8	
SMAD9	SMAD family member 9	RP11-421P11.5, MADH6, MADH9, PPH2, SMAD6, SMAD8A, SMAD8B	
SMAP1	Small ArfGAP 1	RP1-104A17.1, SMAP-1	
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF190, BRM, NCBRS, SNF2, SNF2L2, SNF2LA, SWI2, Sth1a, hBRM, hSNF2a	
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF190, BAF190A, BRG1, MRD16, RTPS2, SNF2, SNF2L4, SNF2LB, SWI2, hSNF2b	√
SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily	ADERM, ETL1, HEL1	
SMARCC2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF170, CRACC2, Rsc8	
SMARCD1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF60A, CRACD1, Rsc6p	
SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF60C, CRACD3, Rsc6p	
SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily	BAF57	√
SMC1A	Structural maintenance of chromosomes 1A	RP6-29D12.1, CDLS2, DXS423E, SB1.8, SMC1, SMC1L1, SMC1alpha, SMCB	
SMC2	Structural maintenance of chromosomes 2	PRO0324, CAP-E, CAPE, SMC-2L1, SMC2	
SMC4	Structural maintenance of chromosomes 4	CAP-C, CAPC, SMC-4L1, hCAP-C, SMC4	
SMC6	Structural maintenance of chromosomes 6	SMC-6L1, hSMC6, SMC6	
SMCHD1	Structural maintenance of chromosomes flexible hinge domain containing 1		
SMCR7	Smith-Magenis syndrome chromosome region, candidate 7		
SMCR7L			
SMCR8	Smith-Magenis syndrome chromosome region, candidate 8		
SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)	MSTP033, FLFL1, KIAA2010, PP4R3A, smk-1, smk1	
SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)	FLFL2, PP4R3B, PSY2, smk1	
SMG1	SMG1 phosphatidylinositol 3-kinase-related kinase	61E3.4, ATX, LIP	
SMG6	SMG6 nonsense mediated mRNA decay factor	C17orf31, EST1A, SMG-6, hSMG5/7a	
SMG7	SMG7 nonsense mediated mRNA decay factor	RP1-127C7.1, C1orf16, EST1C, SGA56M	
SMN2	Survival of motor neuron 2, centromeric	BCD541, C-BCD541, GEMIN1, SMNC, TDRD16B	
SMNDC1	Survival motor neuron domain containing 1	SMNR, SPF30, TDRD16C	
SMPDL3A	Sphingomyelin phosphodiesterase, acid-like 3A	ASM3A, ASML3a, yR36GH4.1	
SMS	Spermine synthase	MRSR, SPMSY, SRS, SpS	

SMTN	Smoothelin		
SMU1	Smu-1 suppressor of mec-8 and unc-52 homolog (*C. elegans*)	RP11-54K16.3, BWD, SMU-1, fSAP57	
SMUG1	Single-strand-selective monofunctional uracil-DNA glycosylase 1	FDG, HMUDG, UNG3	
SMURF1	SMAD specific E3 ubiquitin protein ligase 1		
SMYD1	SET and MYND domain containing 1	BOP, KMT3D, ZMYND18, ZMYND22	
SMYD2	SET and MYND domain containing 2	RP11-176D17.2, HSKM-B, KMT3C, ZMYND14	
SNAI2	Snail family zinc finger 2	SLUG, SLUGH1, SNAIL2, WS2D	
SNAP25	Synaptosomal-associated protein, 25 kDa	RIC-4, RIC4, SEC9, SNAP, SNAP-25, bA416N4.2, dJ1068F16.2	
SNAP47	Synaptosomal-associated protein, 47 kDa	RP5-870F10.2, C1orf142, HEL170, SNAP-47, SVAP1	
SNAPC1	Small nuclear RNA activating complex, polypeptide 1, 43 kDa	PTFgamma, SNAP43	
SNAPC3	Small nuclear RNA activating complex, polypeptide 3, 50 kDa	RP11-307K19.1, PTFbeta, SNAP50	
SNCA	Synuclein, alpha (non A4 component of amyloid precursor)	NACP, PARK1, PARK4, PD1	
SNCAIP	Synuclein, alpha interacting protein	SYPH1, Sph1	
SNED1	Sushi, nidogen and EGF-like domains 1	SST3, Snep	
SNF8	SNF8, ESCRT-II complex subunit	Dot3, EAP30, VPS22	
SNIP1	Smad nuclear interacting protein 1	RP3-423B22.3, PMRED	
SNN	Stannin		
SNORA13	Small nucleolar RNA, H/ACA box 13		
SNORA60	Small nucleolar RNA, H/ACA box 60		
SNORA74B	Small nucleolar RNA, H/ACA box 74B		
SNORD108	Small nucleolar RNA, C/D box 108		
SNORD116-12	Small nucleolar RNA, C/D box 116-12		
SNORD116-21	Small nucleolar RNA, C/D box 116-21		
SNORD19B	Small nucleolar RNA, C/D box 19B		
SNORD56B	Small nucleolar RNA, C/D box 56B		
SNORD94	Small nucleolar RNA, C/D box 94		
SNRNP200	Small nuclear ribonucleoprotein 200 kDa (U5)	ASCC3L1, BRR2, HELIC2, RP33, U5-200KD	
SNRNP27	Small nuclear ribonucleoprotein 27 kDa (U4/U6.U5)	27K, RY1	
SNRNP48	Small nuclear ribonucleoprotein 48 kDa (U11/U12)	RP3-336K20__B.1, C6orf151, dJ336K20B.1, dJ512B11.2	
SNRPE	Small nuclear ribonucleoprotein polypeptide E	B-raf, HYPT11, SME, Sm-E	
SNRPN	Small nuclear ribonucleoprotein polypeptide N	HCERNS, PWCR, RT-LI, SM-D, SMN, SNRNP-N, SNURF-SNRPN, sm-N	
SNTB1	Syntrophin, beta 1 (dystrophin-associated protein A1, 59 kDa, basic component 1)	59-DAP, A1B, B3TN2, DAPA1B, SNT2, SNT2B1, TIP-42	
SNTB2	Syntrophin, beta 2 (dystrophin-associated protein A1, 59 kDa, basic component 2)	D16S2531E, EST25263, SNT2B2, SNT3, SNTL	

SNTG1	Syntrophin, gamma 1	G1SYN, SYN4	
SNTN	Sentan, cilia apical structure protein	S100A1L, S100AL, sentan	
SNX1	Sorting nexin 1	HsT17379, VPS5	
SNX13	Sorting nexin 13	RGS-PX1	
SNX21	Sorting nexin family member 21	RP3-337O18.7, C20orf161, PP3993, SNX-L, dJ337O18.4	
SNX22	Sorting nexin 22		
SNX27	Sorting nexin family member 27	RP11-98D18.12-005, MRT1, MY014	
SNX29	Sorting nexin 29	A-388D4.1, RUNDC2A	
SNX30	Sorting nexin family member 30	RP11-408O19.4, ATG24A	
SNX31	Sorting nexin 31		
SNX32	Sorting nexin 32	SNX6B	
SNX33	Sorting nexin 33	SH3PX3, SH3PXD3C, SNX30	
SNX4	Sorting nexin 4	ATG24B	
SNX5	Sorting nexin 5	RP11-504H3.2	
SNX6	Sorting nexin 6	MSTP010, TFAF2	
SNX9	Sorting nexin 9	RP11-266C7.10-001, SDP1, SH3PX1, SH3PXD3A, WISP-21,	
SOAT1	Sterol O-acyltransferase 1	RP11-215I23.1, ACACT, ACAT, ACAT-1, ACAT1, SOAT, STAT	
SOAT2	Sterol O-acyltransferase 2	ACACT2, ACAT2, ARGP2	
SOBP	Sine oculis binding protein homolog (Drosophila)	RP1-47M23.2, JXC1, MRAMS	
SOCS2	Suppressor of cytokine signaling 2	CIS2, Cish2, SOCS-2, SSI-2, SSI2, STATI2	
SOCS3	Suppressor of cytokine signaling 3	ATOD4, CIS3, Cish3, SOCS-3, SSI-3, SSI3	
SOCS4	Suppressor of cytokine signaling 4	SOCS7	
SOCS5	Suppressor of cytokine signaling 5	CIS6, CISH6, Cish5, SOCS-5	
SOCS6	Suppressor of cytokine signaling 6	CIS-4, CIS4, HSPC060, SOCS-4, SOCS-6, SOCS4, SSI4, STAI4, STATI4	
SOD2	Superoxide dismutase 2, mitochondrial	RP1-56L9.2, IPOB, MNSOD, MVCD6	
SOD3	Superoxide dismutase 3, extracellular	EC-SOD	
SON	SON DNA binding protein	HSPC310, BASS1, C21orf50, DBP-5, NREBP3, SON	
SORBS2	Sorbin and SH3 domain containing 2	ARGBP2, PRO0618	
SORBS3	Sorbin and SH3 domain containing 3	SCAM-1, SCAM1, SH3D4	
SORCS1	Sortilin-related VPS10 domain containing receptor 1	RP11-446H13.1, hSorCS	
SORCS3	Sortilin-related VPS10 domain containing receptor 3	RP11-107L7.1, SORCS	
SORD	Sorbitol dehydrogenase	HEL-S-95n1, SORD	
SORL1	Sortilin-related receptor, L(DLR class) A repeats-containing	C11orf32, LR11, LRP9, SORLA, SorLA-1, gp250	

SORT1	Sortilin 1	Gp95, LDLCQ6, NT3	
SOS1	Son of sevenless homolog 1 (Drosophila)	GF1, GGF1, GINGF, HGF, NS4	
SOS2	Son of sevenless homolog 2 (Drosophila)		
SOSTDC1	Sclerostin domain containing 1	CDA019, ECTODIN, USAG1	
SOX11	SRY (sex determining region Y)-box 11	MRD27	
SOX13	SRY (sex determining region Y)-box 13	RP11-74C13.1, ICA12, Sox-13	
SOX17	SRY (sex determining region Y)-box 17	VUR3	
SOX21	SRY (sex determining region Y)-box 21	SOX25	
SOX30	SRY (sex determining region Y)-box 30		
SOX5	SRY (sex determining region Y)-box 5	RP11-444D3.1, L-SOX5, L-SOX5B, L-SOX5F	
SOX6	SRY (sex determining region Y)-box 6	HSSOX6, SOXD	
SOX7	SRY (sex determining region Y)-box 7		
SOX9	SRY (sex determining region Y)-box 9	CMD1, CMPD1, SRA1	
SP1	Sp1 transcription factor		
SP100	SP100 nuclear antigen	lysp100b	
SP140	SP140 nuclear body protein	LYSP100, LYSP100-A, LYSP100-B	
SP140L	SP140 nuclear body protein-like		
SP3	Sp3 transcription factor	SPR2	
SP5	Sp5 transcription factor		
SP7	Sp7 transcription factor	OI11, OI12, OSX, osterix	
SPACA1	Sperm acrosome associated 1	RP1-23D17.2, SAMP32	
SPAG1	Sperm associated antigen 1	CILD28, CT140, HSD-3.8, SP75, TPIS	
SPAG11B	Sperm associated antigen 11B	EDDM2B, EP2, EP2C, EP2D, HE2, HE2C, SPAG11	
SPAG16	Sperm associated antigen 16	PF20, WDR29	
SPAG7	Sperm associated antigen 7	ACRP, FSA-1	
SPAG9	Sperm associated antigen 9	HLC6, CT169, HLC-6, HLC4, JIP-4, JIP4, JLP, PHET, PIG6	
SPATA1	Spermatogenesis associated 1	RP11-118B23.4, SP-2, SPAP1	
SPATA18	Spermatogenesis associated 18	Mieap, SPETEX1	
SPATA2	Spermatogenesis associated 2	PD1, PPP1R145, tamo	
SPATA20	Spermatogenesis associated 20	SSP411, Tisp78	
SPATA22	Spermatogenesis associated 22	NYD-SP20, NYDSP20	
SPATA4	Spermatogenesis associated 4	SPEF1B, TSARG2	
SPATA5	Spermatogenesis associated 5	AFG2, SPAF	

SPATA6	Spermatogenesis associated 6	RP11-252A4.1, HASH, SRF-1, SRF1	
SPATS2	Spermatogenesis associated, serine-rich 2	Nbla00526, P59SCR, SCR59, SPATA10	
SPATS2L	Spermatogenesis associated, serine-rich 2-like	SP1224, DNAPTP6, SGNP	
SPDYE1	Speedy/RINGO cell cycle regulator family member E1	Ringo1, SPDYE, WBSCR19	
SPDYE2	Speedy/RINGO cell cycle regulator family member E2		
SPDYE6	Speedy/RINGO cell cycle regulator family member E6	hCG_1989182	
SPDYE8P	Speedy/RINGO cell cycle regulator family member E8, pseudogene		
SPEF2	Sperm flagellar 2	CT122, KPL2	
SPEG	SPEG complex locus	APEG-1, APEG1, BPEGalpha, SPEGbeta, SPEG	
SPG11	Spastic paraplegia 11 (autosomal recessive)	KIAA1840	
SPG20	Spastic paraplegia 20 (Troyer syndrome)	SPARTIN, TAHCCP1	
SPG21	Spastic paraplegia 21 (autosomal recessive, Mast syndrome)	BM-019, ACP33, GL010, MAST	
SPHK2	Sphingosine kinase 2	SK 2, SK-2, SPK 2, SPK-2	
SPI1	Spi-1 proto-oncogene	hCG_25181, OF, PU.1, SFPI1, SPI-1, SPI-A	
SPIN1	Spindlin 1	SPIN	
SPINK13	Serine peptidase inhibitor, Kazal type 13 (putative)	HBVDNAPTP1, HESPINTOR, LiESP6, SPINK5L3	
SPINK4	Serine peptidase inhibitor, Kazal type 4	HEL136, PEC-60, PEC60	
SPINK5	Serine peptidase inhibitor, Kazal type 5	LEKTI, LETKI, NETS, NS, VAKTI	
SPINLW1			
SPIRE1	Spire-type actin nucleation factor 1	Spir-1	
SPIRE2	Spire-type actin nucleation factor 2	Spir-2	
SPOCK1	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	SPOCK, TESTICAN, TIC1	
SPOCK3	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	UNQ409/PRO771, HSAJ1454, TES-3, TICN3	
SPON1	Spondin 1, extracellular matrix protein	VSGP/F-spondin, f-spondin	
SPOPL	Speckle-type POZ protein-like	BTBD33	
SPP1	Secreted phosphoprotein 1	PSEC0156, BNSP, BSPI, ETA-1, OPN	
SPP2	Secreted phosphoprotein 2, 24 kDa	SPP-244, SPP2	
SPRN	Shadow of prion protein homolog (zebrafish)	SHADOO, SHO, bA108K14.1	
SPRR1B	Small proline-rich protein 1B	CORNIFIN, GADD33, SPRR1	
SPRY2	Sprouty homolog 2 (Drosophila)	hSPRY2	
SPRY4	Sprouty homolog 4 (Drosophila)	HH17	
SPRYD3	SPRY domain containing 3		
SPSB1	SplA/ryanodine receptor domain and SOCS box containing 1	RP3-324M8.1, SSB-1, SSB1	

SPTA1	Spectrin, alpha, erythrocytic 1	EL2, HPP, HS3, SPH3, SPTA	
SPTBN1	Spectrin, beta, non-erythrocytic 1	ELF, HEL102, SPTB2, betaSpII	
SPTBN5	Spectrin, beta, non-erythrocytic 5	BSPECV, HUBSPECV, HUSPECV	
SPTLC1	Serine palmitoyltransferase, long chain base subunit 1	RP11-116F2.1, H3AN1, HSN1, LBC1, LCB1, SPT1, SPTL	
SPTLC2	Serine palmitoyltransferase, long chain base subunit 2	HSN1C, LCB2, LCB2A, NSAN1C, SPT2, hLCB2a	
SPTLC3	Serine palmitoyltransferase, long chain base subunit 3	RP5-1077I2.1, C20orf36, LCB2B, LCB3, SPT3, SPTLC2L, dJ718P11, dJ718P11.1, hLCB2b	
SPTY2D1	SPT2; Suppressor of Ty; domain containing 1 (S. cerevisiae)		
SR140			
SRCAP	Snf2-related CREBBP activator protein	DOMO1, EAF1, FLHS, SWR1	
SRCIN1	SRC kinase signaling inhibitor 1	P140, SNIP	
SRD5A1	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5-alpha-steroid delta-4-dehydrogenase alpha 1)	S5AR 1	
SREBF2	Sterol regulatory element binding transcription factor 2	CTA-250D10.14-005, SREBP-2, SREBP2, bHLHd2	
SRF	Serum response factor (c-fos serum response element-binding transcription factor)	MCM1	
SRFBP1	Serum response factor binding protein 1	BUD22, P49, Rlb1, STRAP, p49/STRAP	
SRGAP1	SLIT-ROBO Rho GTPase activating protein 1	ARHGAP13	
SRGAP2	SLIT-ROBO Rho GTPase activating protein 2	RP11-512O7.2, ARHGAP34, FNBP2A, SRGAP3, SRGAP2	
SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	ARHGAP14, MEGAP, SRGAP2, WRP	√
SRGN	Serglycin	PPG, PRG, PRG1	
SRI	Sorcin	CP-22, CP22, SCN, V19	
SRPK1	SRSF protein kinase 1	RP3-422H11.1, SFRSK1	
SRPK2	SRSF protein kinase 2	SFRSK2	
SRPR	Signal recognition particle receptor (docking protein)		
SRR	Serine racemase	ILV1, ISO1	
SRRM1	Serine/arginine repetitive matrix 1	160-KD, POP101, SRM160	
SRRM4	Serine/arginine repetitive matrix 4	KIAA1853, MU-MB-2.76, nSR100	
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	RP5-1005F21.1, CREST, LP2261	√
SS18L2	Synovial sarcoma translocation gene on chromosome 18-like 2	KIAA-iso	
SSB	Sjogren syndrome antigen B (autoantigen La)	LARP3, La, La/SSB	
SSBP1	Single-stranded DNA binding protein 1, mitochondrial	Mt-SSB, SOSS-B1, SSBP, mtSSB	
SSBP2	Single-stranded DNA binding protein 2	HSPC116, SOSS-B2	
SSFA2	Sperm specific antigen 2	CS-1, CS1, KRAP, SPAG13	
SSH2	Slingshot protein phosphatase 2	SSH-2, SSH-2L	
SSPN	Sarcospan	DAGA5, KRAG, NSPN, SPN1, SPN2	

SSR1	Signal sequence receptor, alpha	PSEC0262, TRAPA	
SSR2	Signal sequence receptor, beta (translocon-associated protein beta)	HSD25, TLAP, TRAP-BETA, TRAPB	
SSR3	Signal sequence receptor, gamma (translocon-associated protein gamma)	TRAPG	
SSTR2	Somatostatin receptor 2		
SSX2IP	Synovial sarcoma, X breakpoint 2 interacting protein	ADIP	
SSX9	Synovial sarcoma, X breakpoint 9	RP11-344N17.10-001	
ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	Gal-NAc63, SIAT4A, SIAT4L, ST3GalA, ST3GalA.1, ST3GalIA, ST3GalIA.1, ST3O	
ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	EIEE15, MRT12, SIAT6, ST3GALII, ST3GalIII, ST3N	
ST6GAL2	ST6 beta-galactosamide alpha-2,6-sialyltransferase 2	SIAT2, ST6GalII	
ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide	UNQ2787/PRO7177, PRO7177, SIAT7C, ST6GALNAC3, STY	
ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide	RP4-564M11.3, SIAT7E, ST6GalNAcV	
ST7	Suppression of tumorigenicity 7	ETS7q, FAM4A, FAM4A1, HELG, RAY1, SEN4, TSG7	
ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	GD3S, SIAT8, SIAT8-A, SIAT8A, ST8SiaI	
ST8SIA2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2	UNQ3057, HsT19690, SIAT8B, ST8SIA-II, STX	
ST8SIA3	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3	SIAT8C, ST8SiaIII	
ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	PST, PST1, SIAT8D, ST8SIA-IV	
STAC2	SH3 and cysteine rich domain 2	24b2, 24b2/STAC2	
STAC3	SH3 and cysteine rich domain 3	NAM	
STAG1	Stromal antigen 1	SA1, SCC3A	
STAG3	Stromal antigen 3		
STAG3L4	Stromal antigen 3-like 4 (pseudogene)	STAG3L4P	
STAM2	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	HbpA, STAM2B, STAM2	
STAMBPL1	STAM binding protein-like 1	ALMalpha, AMSH-FP, AMSH-LP, bA399O19.2	
STARD13	StAR-related lipid transfer (START) domain containing 13	RP11-81F11.1, ARHGAP37, DLC2, GT650, LINC00464	
STARD3	StAR-related lipid transfer (START) domain containing 3	CAB1, MLN64, es64	
STARD3NL	STARD3 N-terminal like	UNQ855/PRO1864, MENTHO	
STARD4	StAR-related lipid transfer (START) domain containing 4		
STARD8	StAR-related lipid transfer (START) domain containing 8	ARHGAP38, DLC3, STARTGAP3	
STARD9	StAR-related lipid transfer (START) domain containing 9		
STAT1	Signal transducer and activator of transcription 1, 91kDa	CANDF7, IMD31A, IMD31B, IMD31C, ISGF-3, STAT91	
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	APRF, HIES	√
STAT4	Signal transducer and activator of transcription 4	SLEB11	
STAU1	Staufen, double-stranded RNA binding protein 1	RP3-470L14.2, PPP1R150, STAU	

STAU2	Staufen double-stranded RNA binding protein 2		
STBD1	Starch binding domain 1	GENX-3414, GENEX3414	
STC1	Stanniocalcin 1	STC	
STC2	Stanniocalcin 2	STC-2, STCRP	
STEAP2	STEAP family member 2, metalloreductase	UNQ6507/PRO23203, IPCA1, PCANAP1, PUMPCH, STAMP1, STMP	
STEAP3	STEAP family member 3, metalloreductase	AHMIO2, STMP3, TSAP6, dudlin-2	
STEAP4	STEAP family member 4	STAMP2, TIARP, TNFAIP9	
STELLAR			
STIM2	Stromal interaction molecule 2		
STK10	Serine/threonine kinase 10	LOK, PRO2729	
STK11IP	Serine/threonine kinase 11 interacting protein	LIP1, LKB1IP1, STK11IP	
STK16	Serine/threonine kinase 16	KRCT, MPSK, PKL12, TSF1	
STK17A	Serine/threonine kinase 17a	DRAK1	
STK17B	Serine/threonine kinase 17b	DRAK2	
STK24	Serine/threonine kinase 24	RP11-111L24.5, HEL-S-95, MST3, MST3B, STE20, STK2	
STK25	Serine/threonine kinase 25	SOK1, YSK1	
STK32A	Serine/threonine kinase 32A	YANK1	
STK32C	Serine/threonine kinase 32C	RP11-140A10.1, PKE, YANK3	
STK38	Serine/threonine kinase 38	NDR, NDR1	
STK38L	Serine/threonine kinase 38 like	NDR2	
STK39	Serine threonine kinase 39	DCHT, PASK, SPAK	
STK4	Serine/threonine kinase 4	KRS2, MST1, TIIAC, YSK3	
STMN1	Stathmin 1	RP1-125I3.5, C10orf213, LAP18, Lag, OP18, PP17, PP19, PR22, SMN	
STMN2	Stathmin 2	SCG10, SCGN10	
STOM	Stomatin	RP11-342H3.1, BND7, EPB7, EPB72	
STOML3	Stomatin (EPB72)-like 3	RP11-50D16.1, Epb7.2l, SRO	
STON1	Stonin 1	SALF, SBLF, STN1, STNB1	
STON2	Stonin 2	STN2, STNB, STNB2	
STOX1	Storkhead box 1	RP11-314J18.7, C10orf24, PEE4	
STOX2	Storkhead box 2		
STRBP	Spermatid perinuclear RNA binding protein	HEL162, ILF3L, SPNR, p74	
STRN3	Striatin, calmodulin binding protein 3	SG2NA	
STS	Steroid sulfatase (microsomal), isozyme S	ARSC, ARSC1, ASC, ES, SSDD, XLI	

STT3A	STT3A, subunit of the	ITM1, STT3-A, TMC	
STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	LA16c-315D11.6, CHIP, H3PABP2, NY-CO-7, SCAR16, SDCCAG7, UBOX1	
STX11	Syntaxin 11	FHL4, HLH4, HPLH4	
STX12	Syntaxin 12	RP3-426I6.4, STX13, STX14	
STX16	Syntaxin 16	RP11-261P9.3, SYN16	
STX17	Syntaxin 17		
STX1B	Syntaxin 1B	STX1B12, STX1B	
STX2	Syntaxin 2	EPIM, EPMA, STX2B, STX2C, STX2	
STX3	Syntaxin 3	STX3A	
STX6	Syntaxin 6		
STX7	Syntaxin 7	RP11-560I21.1	
STXBP3	Syntaxin binding protein 3	MUNC18-3, MUNC18C, PSP, UNC-18C	
STXBP4	Syntaxin binding protein 4	Synip	
STXBP5	Syntaxin binding protein 5 (tomosyn)	RP11-361F15.2, LGL3, LLGL3, Nbla04300	
STXBP5L	Syntaxin binding protein 5-like	LLGL4	
STYK1	Serine/threonine/tyrosine kinase 1	NOK, SuRTK106	
STYX	Serine/threonine/tyrosine interacting protein		
SUB1	SUB1 homolog (S. cerevisiae)	P15, PC4, p14	
SUCLA2	Succinate-CoA ligase, ADP-forming, beta subunit	RP11-528D24.2, A-BETA, MTDPS5, SCS-betaA	
SUCLG2	Succinate-CoA ligase, GDP-forming, beta subunit	GBETA	
SUCNR1	Succinate receptor 1	GPR91	
SUDS3	Suppressor of defective silencing 3 homolog (S. cerevisiae)	SAP45, SDS3	
SUFU	Suppressor of fused homolog (Drosophila)	RP11-47A8.1, PRO1280H, SUFUXL, SUFU	√
SUGT1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)	RP11-93H24.2, SGT1	
SULF1	Sulfatase 1	HSULF-1, SULF-1	
SULT1C2	Sulfotransferase family, cytosolic, 1C, member 2	ST1C1, ST1C2, SULT1C1, humSULTC2	
SULT1C4	Sulfotransferase family, cytosolic, 1C, member 4	SULT1C, SULT1C2	
SULT4A1	Sulfotransferase family 4A, member 1	BR-STL-1, BRSTL1, DJ368M5.3, NST, SULTX3, hBR-STL-1	
SUMF1	Sulfatase modifying factor 1	UNQ3037, AAPA3037, FGE	
SUMF2	Sulfatase modifying factor 2	PSEC0171, Pfge	
SUMO3	small ubiquitin-like modifier 3	SMT3A, SMT3H1, SUMO-3, Smt3B	
SUPT3H	Suppressor of Ty 3 homolog *(S. cerevisiae)*	RP11-169I2.1, SPT3, SPT3L	
SUPT7L	Suppressor of Ty 7 *(S. cerevisiae)* -like	SPT7L, STAF65, STAF65(gamma), STAF65G, SUPT7H	

SUSD4	Sushi domain containing 4	RP11-239E10.4, PRO222	
SUSD5	Sushi domain containing 5	Gm1126	
SUV39H1	Suppressor of variegation 3-9 homolog 1 (Drosophila)	H3-K9-HMTase 1, KMT1A, MG44, SUV39H	
SUV420H1	Suppressor of variegation 4-20 homolog 1 (Drosophila)	CGI-85, CGI85, KMT5B	
SUZ12	SUZ12 polycomb repressive complex 2 subunit	CHET9, JJAZ1	√
SUZ12P	suppressor of zeste 12 homolog pseudogene 1	SUZ12P	
SV2A	Synaptic vesicle glycoprotein 2A	PSEC0174, SV2	
SV2B	Synaptic vesicle glycoprotein 2B	HsT19680	
SVIP	Small VCP/p97-interacting protein		
SWAP70	SWAP switching B-cell complex 70 kDa subunit	HSPC321, SWAP-70	
SYCP1	Synaptonemal complex protein 1	RP11-109G4.1, CT8, HOM-TES-14, SCP-1, SCP1	
SYCP2	Synaptonemal complex protein 2	RP5-884F15.1, SCP2	
SYF2	SYF2 pre-mRNA-splicing factor	CBPIN, NTC31, P29, fSAP29	
SYK	Spleen tyrosine kinase	p72-Syk	√
SYN2	Synapsin II	SYNII	
SYNC	Syncoilin, intermediate filament protein	SYNC1OILIN, SYNC	
SYNCRIP	Synaptotagmin binding, cytoplasmic RNA interacting protein	RP1-5J17.2, GRY-RBP, GRYRBP, HNRNPQ, HNRPQ1, NSAP1, PPP8, hsPNRO1, C60f98, CPG2, EDMD4,	
SYNE1	Spectrin repeat containing, nuclear envelope 1	MYNE1, Nea1, SCAP8, dJ45H2.2, Nesprin-2, SYNE-2,	
SYNE2	Spectrin repeat containing, nuclear envelope 2	EDMD5, Nea1, NUANCE, Nesp2, Nesprin-2, SYNE-2, TROPH	
SYNJ1	Synaptojanin 1	INPP5G, PARK20	
SYNJ2BP	Synaptojanin 2 binding protein	ARIP2, OMP25	
SYNM	Synemin, intermediate filament protein	DMN, SYN	
SYNPO2	Synaptopodin 2		
SYNPO2L	Synaptopodin 2-like		
SYNPR	Synaptoporin	SPO	
SYNRG	synergin, gamma	AP1GBP1, SYNG	
SYPL1	Synaptophysin-like 1	H-SP1, SYPL	
SYPL2	Synaptophysin-like 2	UNQ6348, MG29	
SYT1	Synaptotagmin I	P65, SVP65, SYT	
SYT14	Synaptotagmin XIV	SCAR11, sytXIV	
SYT15	Synaptotagmin XV	RP11-38L15.7, CHR10SYT, sytXV	
SYT16	Synaptotagmin XVI	CHR14SYT, SYT14L, Strep14, syt14r, yt14r	
SYT2	Synaptotagmin II	SytII	

SYT3	Synaptotagmin III	SytIII	
SYT4	Synaptotagmin IV	HsT1192	
SYT7	Synaptotagmin VII	IPCA-7, IPCA7, PCANAP7, SYT-VII, SYTVII	
SYTL2	Synaptotagmin-like 2	CHR11SYT, EXO4, PPP1R151, SGA72M, SLP2, SLP2A	
SYTL4	Synaptotagmin-like 4	RP11-524D16__A.2, SLP4	
T	T, brachyury homolog (mouse)	RP11-459F1.1, SAVAFT, T	
TAB1	TGF-beta activated kinase 1/MAP3K7 binding protein 1	RP3-407F17.2, 3'-Tab1, MAP3K7IP1	
TAB2	TGF-beta activated kinase 1/MAP3K7 binding protein 2	RP1-111D6.3, CHTD2, MAP3K7IP2, TAB-2	
TAB3	TGF-beta activated kinase 1/MAP3K7 binding protein 3	MAP3K7IP3, NAP1	
TACC1	Transforming, acidic coiled-coil containing protein 1	Ga55	
TACC2	Transforming, acidic coiled-coil containing protein 2	RP11-296H2.1, AZU-1, ECTACC	
TACR1	Tachykinin receptor 1	NK1R, NKIR, SPR, TAC1R	
TADA1	Transcriptional adaptor 1	RP1-9E21.4, ADA1, HFI1, STAF42L, hADA1, TADA1	
TADA2A	Transcriptional adaptor 2A	KL04P, ADA2, ADA2A, TADA2L, hADA2	
TADA2B	Transcriptional adaptor 2B	ADA2(beta), ADA2B	
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68	Npl3, RBP56, TAF2N, TAFII68	√
TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48	RP11-378J18.2, MGC:17061, RAFI48, SL1, TAFI48	
TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41 kDa	JOSD3, RAFI41, TAF(I)41, TAFI41	
TAF2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150	CIF150, MRT40B, TAFII150, TAF2	
TAF4	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135	RP5-1107C24.1, TAF2C, TAF2C1A, TAFII130, TAFII135, TAF4	
TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105	SPGF13, TAF2C2, TAFII105	
TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100	TAF2D, TAFII100	
TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor,	RP4-613A2.4, PAF65B	
TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55	TAF2F, TAFII55	
TAF8	TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 43	43, II, TAF, TAFII-43, TAFII43, TBN	
TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32	AD-004, MGC:3067, STAF31/32, TAF2G, TAFII-31, TAFII 32, TAFII31, TAFII32, TAFIID32	
TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31	RP4-570L12.2, DN-7, DN7, TAF9L, TAFII31L, TFIID-31	
TAGAP	T-cell activation RhoGTPase activating protein	FKSG15, ARHGAP47, IDDM211, TAGAP	
TAGLN2	Transgelin 2	RP11-48O20.1, HA1756	
TAGLN3	Transgelin 3	NP22, NP24, NP25	
TAL2	T-cell acute lymphocytic leukemia 2		√
TALDO1	Transaldolase 1	TAL, TAL-H, TALDOR, TALH	
TANC1	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	ROLSB, TANC	

TANC2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	ROLSA, rols	
TAP1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	DAAP-37C1.3, ABC17, ABCB2, APT1, D6S114E, PSF-1, PSF1, RING4*0102N, TAP1N, TAP1	
TAP2	Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	DAAP-37C1.2, ABC18, ABCB3, APT2, D6S217E, PSF-2, PSF2, RING11	
TAPT1	Transmembrane anterior posterior transformation 1	CMVFR	
TARDBP	TAR DNA binding protein	RP4-635E18.2, ALS10, TDP-43	
TAS2R20	Taste receptor, type 2, member 20	T2R20, T2R49, T2R56, TAS2R49	
TATDN3	TatD DNase domain containing 3		
TAX1BP3	Tax1 (human T-cell leukemia virus type 1) binding protein 3	TIP-1	
TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1	TBC, TBC1	
TBC1D13	TBC1 domain family, member 13	RP11-545E17.5	
TBC1D14	TBC1 domain family, member 14		
TBC1D15	TBC1 domain family, member 15	RAB7-GAP	
TBC1D20	TBC1 domain family, member 20	RP5-852M4.5, C20orf140, WARBM4	
TBC1D22B	TBC1 domain family, member 22B	RP4-744I24.2, C6orf197, dJ744I24.2	
TBC1D26	TBC1 domain family, member 26		
TBC1D2B	TBC1 domain family, member 2B		
TBC1D3	TBC1 domain family, member 3		
TBC1D30	PRC17A, TBC1D3F, TBC1D3		
TBC1D4	TBC1 domain family, member 4	RP11-159J2.3, AS160	
TBC1D5	TBC1 domain family, member 5		
TBC1D7	TBC1 domain family, member 7	HSPC239, MGCPH, PIG51, TBC7	
TBC1D8B	TBC1 domain family, member 8B (with GRAM domain)	RP11-321G1.1	
TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	MDR1	
TBCA	Tubulin folding cofactor A		
TBCD	Tubulin folding cofactor D	PP1096, SSD-1, tfcD	
TBCEL	Tubulin folding cofactor E-like	El, LRRC35	
TBCK	TBC1 domain containing kinase	HSPC302L, TBCK	
TBL1X	Transducin (beta)-like 1X-linked	EBI, SMAP55, TBL1	
TBL1XR1	Transducin (beta)-like 1 X-linked receptor 1	C21, DC42, IRA1, TBLR1	√
TBL2	Transducin (beta)-like 2	UNQ563/PRO1125, WBSCR13, WS-betaTRP	
TBP	TATA box binding protein	RP1-191N21.3, GTF2D, GTF2D1, HDL4, SCA17, TFIID	
TBPL1	TBP-like 1	RP1-73H22.1, MGC.8389, MGC.9620, STUD, TLF, TLP, TRF2	
TBRG1	Transforming growth factor beta regulator 1	NIAM, TB-5	

TBX18	T-box 18		
TBX2	T-box 2		
TBX3	T-box 3	TBX3-ISO, UMS, XHL	
TBX4	T-box 4	SPS	
TBX5	T-box 5	HOS	
TBXA2R	Thromboxane A2 receptor	BDPLT13, TXA2-R	
TCAM1P	Testicular cell adhesion molecule 1, pseudogene	TCAM1	
TCEA2	Transcription elongation factor A (SII), 2	RP11-299N6.2, TFIIS	
TCEANC	Transcription elongation factor A (SII) N-terminal and central domain containing		
TCERG1	Transcription elongation regulator 1	CA150, TAF2S, Urn1	
TCF19	Transcription factor 19	DAMA-213L4.5, SC1, TCF-19	
TCF4	Transcription factor 4	E2-2, ITF-2, ITF2, PTHS, SEF-2, SEF2, SEF2-1, SEF2-1A, SEF2-1B, SEF2-1D, TCF-4, bHLHb19	
TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)	RP11-357H24.1, TCF-4, TCF4	√
TCFL5	Transcription factor-like 5 (basic helix-loop-helix)	CHA, E2BP-1, Figlb, bHLHe82	
TCHH	Trichohyalin	RP11-107M16.3, THH, THL, TRHY	
TCHP	Trichoplein, keratin filament binding	TpMs	
TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)	TNG1, TNG2	√
TCTA	T-cell leukemia translocation altered		
TCTN1	Tectonic family member 1	UNQ9369/PRO34160, JBTS13, TECT1	
TCTN3	Tectonic family member 3	RP11-7D5.3, C10orf61, JBTS18, OFD4, TECT3	
TDGF3	Teratocarcinoma-derived growth factor 1 pseudogene 3	CR-3, CRIPTO, CRIPTO-3, CRIPTO3, TDGF1, TDGF2, TDGF3	
TDH	L-threonine dehydrogenase (pseudogene)	SDR14E1P	
TDRD1	Tudor domain containing 1	CT41.1	
TDRD12	Tudor domain containing 12	ECAT8	
TDRD9	Tudor domain containing 9	C14orf75, HIG-1, NET54	
TDRG1	Testis development related 1 (non-protein coding)		
TEAD1	TEA domain family member 1 (SV40 transcriptional enhancer factor)	AA, NTEF-1, REF1, TCF-13, TCF13, TEAD-1, TEF-1	
TECPR1	Tectonin beta-propeller repeat containing 1	tcag7.876	
TECRL	Trans-2,3-enoyl-CoA reductase-like	GPSN2L, SRD5A2L2, TERL	
TEF	Thyrotrophic embryonic factor	CTA-223H9.6	
TEK	TEK tyrosine kinase, endothelial	CD202B, TIE-2, TIE2, VMCM, VMCM1	
TEKT2	Tektin 2 (testicular)	TEKTB1, TEKTIN-T, h-tektin-t	
TENC1	Tensin like C1 domain containing phosphatase (tensin 2)	C1-TEN, C1TEN, TNS2	

TEPP	Testis, prostate and placenta expressed		
TES	Testis derived transcript (3 LIM domains)	TESSS-2, TES	
TET2	Tet methylcytosine dioxygenase 2	Nbla00191, KIAA1546, MDS	√
TET3	Tet methylcytosine dioxygenase 3	hCG_40738	√
TEX2	Testis expressed 2	HT008, TMEM96	
TEX261	Testis expressed 261	UNQ1882/PRO4325, TEG-261	
TEX9	Testis expressed 9		
TFAP2A	Transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	RP1-290I10.1, AP-2, AP-2alpha, AP2TF, BOFS, TFAP2	
TFAP2B	Transcription factor AP-2 beta (activating enhancer binding protein 2 beta)	RP4-753D5.1, AP-2B, AP2-B	
TFCP2L1	Transcription factor CP2-like 1	CRTR1, LBP-9, LBP9	
TFDP1	Transcription factor Dp-1	RP11-230F18.1, DP1, DRTF1, Dp-1	
TFEC	Transcription factor EC	TCFEC, TFE-C-L, TFECL, bHLHe34, hTFEC-L, TFEC	
TFPI	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	EPI, LACI, TFI1, TFPI	
TFRC	Transferrin receptor	CD71, T9, TFR, TFR1, TR, TRFR, p90	√
TGDS	TDP-glucose 4,6-dehydratase	RP11-124B17.2, SDR2E1, TDPGD	
TGFA	Transforming growth factor, alpha	TFGA	
TGFB2	Transforming growth factor, beta 2	LDS4, TGF-beta2	
TGFBI	Transforming growth factor, beta-induced, 68 kDa	BIGH3, CDB1, CDG2, CDGG1, CSD, CSD1, CSD2, GSD2, EBMD, LCD1	
TGFBR1	Transforming growth factor, beta receptor 1	RP11-96L7.1, AAT5, ACVRLK4, ALK-5, ALK5, E331, LDS1, LDS1A, LDS2A, MSSE, SKD4, TGFR-1, TGFR1, TAAD2, TGFB-2, TGFbeta-RII	
TGFBR2	Transforming growth factor, beta receptor II (70/80 kDa)	AAT3, FAA3, LDS1B, LDS2B, MFS2, RHC, TAAD2, TGFB-2, TGFbeta-RII	
TGFBR3	Transforming growth factor, beta receptor III	BGCAN, betaglycan	
TGFBRAP1	Transforming growth factor, beta receptor associated protein 1	RP11-332H14.1, TRAP-1, TRAP1	
TGIF2	TGFB-induced factor homeobox 2		
TGM2	Transglutaminase 2	RP5-1054A22.2, G-ALPHA-h, GNAH, HEL-S-45, TG2, TGC	
TH1L			
THADA	Thyroid adenoma associated	GITA	
THAP1	THAP domain containing, apoptosis associated protein 1	DYT6	
THAP2	THAP domain containing, apoptosis associated protein 2		
THAP3	THAP domain containing, apoptosis associated protein 3		
THAP4	THAP domain containing 4		
THAP6	THAP domain containing 6		
THBD	Thrombomodulin	AHUS6, BDCA3, CD141, THPH12, THRM, TM	
THBS1	Thrombospondin 1	THBS, THBS-1, TSP, TSP-1, TSP1	

THBS2	Thrombospondin 2	XXyac-YX65C7_A.1, TSP2	
THBS4	Thrombospondin 4	TSP4	
THEMIS	Thymocyte selection associated	C6orf190, C6orf207, GASP, SPOT, TSLPA, hA225O24.3, hA225O24.4	
THOC7	THO complex 7 homolog (Drosophila)	NIF3L1BP1, fSAP24, hTREX30	
THRA	Thyroid hormone receptor, alpha	AR7, CHNG6, EAR7, ERB-T-1, ERBA, ERBA1, NR1A1, THRA2, c-ERBA-1, THRA	
THRB	Thyroid hormone receptor, beta	C-ERBA-2, C-ERBA-BETA, ERBA2, GRTH, NRIA2, PRTH, THR1, THRB2, THRB	
THRSP	Thyroid hormone responsive	LPGP1, Lpgp, S14, SPOT14, THRP	
THSD1	Thrombospondin, type I, domain containing 1	RP11-245D16.1, TMTSP, UNQ3010	
THSD4	Thrombospondin, type I, domain containing 4	UNQ9334, ADAMTSL-6, ADAMTSL6, FV3-9334, PRO34005	
THSD7B	Thrombospondin, type I, domain containing 7B		
THUMPD1	THUMP domain containing 1		
THUMPD2	THUMP domain containing 2	C2orf8	
THUMPD3	THUMP domain containing 3		
TIA1	TIA1 cytotoxic granule-associated RNA binding protein	TIA-1, WDM	
TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1	TCBP, TIAR	
TIAM1	T-cell lymphoma invasion and metastasis 1		
TICAM2	Toll-like receptor adaptor molecule 2	MyD88-4, TICAM-2, TIRAP3, TIRP, TRAM	
TIFA	TRAF-interacting protein with forkhead-associated domain	T2BP, T6BPA, TIFA	
TIGD6	Tigger transposable element derived 6		
TIGD7	Tigger transposable element derived 7	Sancho	
TIGIT	T cell immunoreceptor with Ig and ITIM domains	VSIG9, VSTM3, WUCAM	
TIMELESS	Timeless circadian clock	TIM, TIM1, hTIM	
TIMM10	Translocase of inner mitochondrial membrane 10 homolog (yeast)	TIM10, TIM10A	
TIMM13	Translocase of inner mitochondrial membrane 13 homolog (yeast)	TIM13, TIM13BA, TIMM13B, ppv1, TIMM13	
TIMM17A	Translocase of inner mitochondrial membrane 17 homolog A (yeast)	TIM17, TIM17A	
TIMM23	Translocase of inner mitochondrial membrane 23 homolog (yeast)	RP11-481A12.7, TIM23	
TIMM50	Translocase of inner mitochondrial membrane 50 homolog (S. cerevisiae)	PRO1512, TIM50, TIM50L	
TIMP3	TIMP metallopeptidase inhibitor 3	RP1-309I22.1, HSMRK222, K222, K222TA2, SFD	
TIMP4	TIMP metallopeptidase inhibitor 4		
TINAG	Tubulointerstitial nephritis antigen	RP11-124I4.1, TIN-AG	
TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	ARTD14, PARP7, pART14	
TJP2	Tight junction protein 2	RP11-16N10.1, C9DUPq21.11, DFNA51, DUP9q21.11, PFIC4, Y104, ZO2	
TK2	Thymidine kinase 2, mitochondrial	MTDPS2, MTTK	

TLE1	Transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	RP11-203D19.1, ESG, ESG1, GRG1	
TLE3	Transducin-like enhancer of split 3	ESG, ESG3, GRG3, HsT18976	
TLE4	Transducin-like enhancer of split 4	RP11-79D8.3, BCE-1, BCE1, E(spI), ESG, ESG4, GRG4	
TLK1	Tousled-like kinase 1	PKU-beta	
TLK2	Tousled-like kinase 2	HsHPK, PKU-ALPHA	
TLL1	Tolloid-like 1	ASD6, TLL	
TLL2	Tolloid-like 2		
TLN1	Talin 1	RP11-112J3.1, ILWEQ, TLN	
TLR10	Toll-like receptor 10	UNQ315/PRO358, CD290	
TLR4	Toll-like receptor 4	ARMD10, CD284, TLR-4, TOLL	
TLR6	Toll-like receptor 6	CD286	
TLR8	Toll-like receptor 8	UNQ249/PRO286, CD288	
TM2D3	TM2 domain containing 3	BLP2	
TM4SF1	Transmembrane 4 L six family member 1	H-L6, L6, M3S1, TAAL6	
TM7SF3	Transmembrane 7 superfamily member 3		
TM9SF3	Transmembrane 9 superfamily member 3	RP11-34E5.1, EP70-P-iso, SMBP	
TM9SF4	Transmembrane 9 superfamily member 4	RP5-836N17.2, dJ836N17.2	
TMC1	Transmembrane channel-like 1	RP11-296H15.1, DFNA36, DFNB11, DFNB7	
TMC8	Transmembrane channel-like 8	EV2, EVER2, EVIN2	
TMCC1	Transmembrane and coiled-coil domain family 1		
TMCC3	Transmembrane and coiled-coil domain family 3		
TMCO3	Transmembrane and coiled-coil domains 3	RP11-230F18.3, C13orf11	
TMED10	Transmembrane emp24-like trafficking protein 10 (yeast)	P24(DELTA), S31III25, S31III25, TMP21, Tmp-21-I, p22	
TMED10P1	Transmembrane emp24-like trafficking protein 10 (yeast) pseudogene 1		
TMED5	Transmembrane emp24 protein transport domain containing 5	RP5-976O13.2, CGI-100, p28	
TMED6	Transmembrane emp24 protein transport domain containing 6	UNQ9146/PRO34237, PRO34237, SPLL9146	
TMED7	Transmembrane emp24 protein transport domain containing 7	CGI-109, p24gamma3, p27	
TMED7-TICAM2	TMED7-TICAM2 readthrough		
TMED9	Transmembrane emp24 protein transport domain containing 9	GMP25, HSGP25L2G, p25	
TMEFF1	Transmembrane protein with EGF-like and two follistatin-like domains 1	C9orf2, CT120.1, H7365, TR-1	
TMEFF2	Transmembrane protein with EGF-like and two follistatin-like domains 2	UNQ178/PRO204, CT120.2, HPP1, TENB2, TPEF, TR	
TMEM105	Transmembrane protein 105		
TMEM106A	Transmembrane protein 106A		

TMEM106B	Transmembrane protein 106B		
TMEM107	Transmembrane protein 107	DC20, GRVS638, PRO1268	
TMEM108	Transmembrane protein 108	UNQ1875/PRO4318, CT124	
TMEM115	Transmembrane protein 115	LUCA11.2, PL6	
TMEM116	Transmembrane protein 116		
TMEM120B	Transmembrane protein 120B		
TMEM123	Transmembrane protein 123	PSEC0111, KCT3, PORIMIN, PORMIN	
TMEM126B	Transmembrane protein 126B	HT007	
TMEM127	Transmembrane protein 127		
TMEM131	Transmembrane protein 131	CC28, PRO1048, RW1, YR-23	
TMEM132A	Transmembrane protein 132A	GBP, HSPA5BP1	
TMEM132B	Transmembrane protein 132B		
TMEM132C	Transmembrane protein 132C	PPP1R152	
TMEM132D	Transmembrane protein 132D	MOLT, PPP1R153	
TMEM133	Transmembrane protein 133	AD031	
TMEM135	Transmembrane protein 135	PMP52	
TMEM136	Transmembrane protein 136		
TMEM138	Transmembrane protein 138	HSPC196	
TMEM144	Transmembrane protein 144		
TMEM14A	Transmembrane protein 14A	PTD011, C6orf73	
TMEM151B	Transmembrane protein 151B	RP11-444E17.5, C6orf137, TMEM193, bA444E17.5	
TMEM154	Transmembrane protein 154		
TMEM155	Transmembrane protein 155		
TMEM161B	Transmembrane protein 161B	UNQ679/PRO1313, FLB3342, PRO1313	
TMEM164	Transmembrane protein 164	RP13-360B22.2, bB360B22.3	
TMEM165	Transmembrane protein 165	CDG2K, FT27, GDT1, TMPT27, TPARL	
TMEM167A	Transmembrane protein 167A	TMEM167	
TMEM167B	Transmembrane protein 167B	AD-020, C1orf119	
TMEM168	Transmembrane protein 168		
TMEM17	Transmembrane protein 17		
TMEM170A	Transmembrane protein 170A	TMEM170	
TMEM170B	Transmembrane protein 170B	RP11-679B17.1	
TMEM173	Transmembrane protein 173	ERIS, MITA, MPYS, NET23, SAVI, STING, hMITA, hSTING	

TMEM178	Transmembrane protein 178	tmem178a, zgc:153181	
TMEM18	Transmembrane protein 18		
TMEM181	Transmembrane protein 181	GPR178, KIAA1423	
TMEM183A	Transmembrane protein 183A	C1orf37	
TMEM183B	Transmembrane protein 183B	C1orf37-DUP	
TMEM184C	Transmembrane protein 184C	PRO1355, TMEM34	
TMEM185A	Transmembrane protein 185A	CXorf13, FAM11A, FRAXF, ee3	
TMEM189	Transmembrane protein 189	RP5-1185N5.1, KUA	
TMEM19	Transmembrane protein 19		
TMEM192	Transmembrane protein 192		
TMEM194A	Transmembrane protein 194A	TMEM194	
TMEM196	Transmembrane protein 196		
TMEM199	Transmembrane protein 199	C17orf32	
TMEM20			
TMEM200A	Transmembrane protein 200A	HBE61, KIAA1913, TTMA, TTMC	
TMEM201	Transmembrane protein 201	RP13-15M17.2, NET5	
TMEM202	Transmembrane protein 202		
TMEM203	Transmembrane protein 203	HBEBP1	
TMEM206	Transmembrane protein 206	RP11-384C4.5, C1orf75	
TMEM207	Transmembrane protein 207	UNQ846/PRO1784, UNQ846	
TMEM208	Transmembrane protein 208	HSPC171	
TMEM213	Transmembrane protein 213		
TMEM214	Transmembrane protein 214	PP446	
TMEM217	Transmembrane protein 217	C6orf128, dJ355M6.2	
TMEM219	Transmembrane protein 219	IGFBP-3R	
TMEM22			
TMEM229A	Transmembrane protein 229A	tcag7.977	
TMEM229B	Transmembrane protein 229B	C14orf83	
TMEM233	Transmembrane protein 233	DSPB2, IFITMD2	
TMEM26	Transmembrane protein 26		
TMEM27	Transmembrane protein 27	UNQ679/PRO1312, NX-17, NX17	
TMEM30A	Transmembrane protein 30A	C6orf67, CDC50A	
TMEM33	Transmembrane protein 33	1600019D15Rik, SHINC3	

TMEM35	Transmembrane protein 35	RP4-664K17.3	
TMEM38A	Transmembrane protein 38A	TRIC-A, TRICA	
TMEM40	Transmembrane protein 40		
TMEM41A	Transmembrane protein 41A	UNQ168/PRO194, 2900010K02Rik	
TMEM43	Transmembrane protein 43	UNQ2564/PRO6244, ARVC5, ARVD5, EDMD7, LUMA	
TMEM45A	Transmembrane protein 45A	DERP7	
TMEM45B	Transmembrane protein 45B		
TMEM47	Transmembrane protein 47	BCMP1, TM4SF10	
TMEM49			
TMEM50A	Transmembrane protein 50A	RP11-335G20.3, IFNRC, SMP1	
TMEM56	Transmembrane protein 56		
TMEM57	Transmembrane protein 57	RP3-469D22.2, MACOILIN	
TMEM63C	Transmembrane protein 63C	C14orf171, CSC1, hsCSC1	
TMEM64	Transmembrane protein 64		
TMEM65	Transmembrane protein 65		
TMEM71	Transmembrane protein 71		
TMEM84			
TMEM86A	Transmembrane protein 86A		
TMEM87A	Transmembrane protein 87A	PSEC0094	
TMEM87B	Transmembrane protein 87B		
TMEM8B	Transmembrane protein 8B	RP11-112J3.10, C9orf127, NAG-5, NGX6	
TMEM9	Transmembrane protein 9	RP5-894H24.1A, TMEM9	
TMEM92	Transmembrane protein 92	UNQ5801/PRO19608	
TMEM97	Transmembrane protein 97	MAC30	
TMEM98	Transmembrane protein 98	UNQ536/PRO1079, TADA1	
TMEM9B	TMEM9 domain family, member B	UNQ712/PRO1375, C11orf15	
TMF1	TATA element modulatory factor 1	ARA160, TMF	
TMLHE	Trimethyllysine hydroxylase, epsilon	AUTSX6, BBOX2, TMLD, TMLHD, XAP130, TMLHE	
TMOD3	Tropomodulin 3 (ubiquitous)	UTMOD	
TMPPE	Transmembrane protein with metallophosphoesterase domain		
TMPRSS11A	Transmembrane protease, serine 11A	ECRG1	
TMPRSS11BNL	TMPRSS11B N-terminal like, pseudogene		
TMPRSS11D	Transmembrane protease, serine 11D	HAT	

TMPRSS12	Transmembrane (C-terminal) protease, serine 12	CT151	
TMPRSS13	Transmembrane (C-terminal) protease, serine 13	MSP, MSPL, MSPS, TMPRSS11	
TMPRSS2	Transmembrane protease, serine 2	PP9284, PRSS10	√
TMSB15B	Thymosin beta 15B	Tbeta15b	
TMSB4Y	Thymosin beta 4, Y-linked	TB4Y	
TMTC1	Transmembrane and tetratricopeptide repeat containing 1	ARG99, OLFA, TMTC1	
TMTC2	Transmembrane and tetratricopeptide repeat containing 2	IBDBP1	
TMTC3	Transmembrane and tetratricopeptide repeat containing 3	SMILE	
TMX1	Thioredoxin-related transmembrane protein 1	PSEC0085, PDIA11, TMX, TXNDC, TXNDC1	
TMX3	Thioredoxin-related transmembrane protein3	PDIA13, TXNDC10	
TNF	Tumor necrosis factor	DADB-70P7.1, DIF-alpha, TNFA, TNFSF2, TNF	
TNFAIP1	Tumor necrosis factor, alpha-induced protein 1 (endothelial)	B12, B61, BTBD34, EDP1, hBACURD2	
TNFAIP6	Tumor necrosis factor, alpha-induced protein 6	TSG-6, TSG6	
TNFAIP8	Tumor necrosis factor, alpha-induced protein 8	GG2-1, MDC-3.13, NDED, SCC-S2, SCCS2	
TNFRSF10B	Tumor necrosis factor receptor superfamily, member 10b	UNQ100/PRO186, CD262, DR5, KILLER, KILLER/DR5, TRAIL-R2, TRAILR2, TRICK2	
TNFRSF11B	Tumor necrosis factor receptor superfamily, member 11b	OCIF, OPG, TR1	
TNFRSF14	Tumor necrosis factor receptor superfamily, member 14	RP5-395M20.6, ATAR, CD270, HVEA, HVEM, LIGHTR, TR2	√
TNFRSF19	Tumor necrosis factor receptor superfamily, member 19	UNQ1888/PRO4333, TAJ, TAJ-alpha, TRADE, TROY	
TNFRSF1B	Tumor necrosis factor receptor superfamily, member 1B	CD120b, TBPII, TNF-R-II, TNF-R75, TNFBR, TNFR1B, TNFR2, TNFR80, p75, p75TNFR	
TNFRSF25	Tumor necrosis factor receptor superfamily, member 25	RP4-630H14.2, APO-3, DDR3, LARD, TNFRSF12, TR3, TRAMP, WSL-1, WSL-LR	
TNFRSF8	Tumor necrosis factor receptor superfamily, member 8	CD30, D1S166E, Ki-1	
TNFSF11	Tumor necrosis factor receptor superfamily, member 11	RP11-86N24.2, CD254, ODF, OPGL, OPTB2, RANKL, TRANCE, hRANKL2, sOdf	
TNFSF12	Tumor necrosis factor receptor superfamily, member 12	UNQ181/PRO207, APO3L, DR3LG, TWEAK	
TNFSF12-TNFSF13	TNFSF12-TNFSF13 readthrough	TWE-PRIL	
TNFSF13	Tumor necrosis factor (ligand) superfamily, member 13	UNQ365/PRO715, APRIL, CD256, TALL-2, TALL2, TRDL-1, zTNF2	
TNFSF15	Tumor necrosis factor (ligand) superfamily, member 15	TL1, TL1A, VEGI, VEGI192A	
TNFSF4	Tumor necrosis factor (ligand) superfamily, member 4	CD134L, CD252, GP34, OX-40L, OX4OL, TXGP1	
TNK1	Tyrosine kinase, non-receptor, 1		
TNK2	Tyrosine kinase, non-receptor, 2	ACK, ACK-1, ACK1, p21cdc42Hs	
TNKS	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	ARTD5, PARP-5a, PARP5A, PARPL, TIN1, TINF1, pART5, TNKS	
TNNI1	Troponin I type 1 (skeletal, slow)	SSTNI, TNN1	
TNNI3K	TNNI3 interacting kinase	CARK	
TNP1	Transition protein 1 (during histone to protamine replacement)	TP1	

TNPO1	Transportin 1	IPO2, KPNB2, MIP, MIP1, TRN	
TNPO3	Transportin 3	IPO12, LGMD1F, MTR10A, TRN-SR, TRN-SR2, TRNSR	
TNRC6B	Trinucleotide repeat containing 6B	RP5-1042K10.7	
TNRC6C	trinucleotide repeat containing 6C		
TNS1	Tensin 1	MSTP091, MSTP091, MSTP122, MSTP127, MSTP122, MSTP127, MXRA6, PPP1R155, TNS	
TNS3	Tensin 3	TEM6, TENS1	
TNS4	Tensin 4	PP14434, CTEN	
TOB2	Transducer of ERBB2, 2	CTA-223H9.7, TOB4, TOBL, TROB2	
TOE1	Target of EGR1, member 1 (nuclear)		
TOM1L1	Target of myb1 (chicken)-like 1	OK/KNS-CL.3, SRCASM	
TOM1L2	Target of myb1-like 2 (chicken)	UNQ3124	
TOMM20	Translocase of outer mitochondrial membrane 20 homolog (yeast)	RP4-597N16.2, MAS20, MOM19, TOM20	
TOMM34	Translocase of outer mitochondrial membrane 34	HTOM34P, TOM34, URCC3	
TOMM40L	Translocase of outer mitochondrial membrane 40 homolog (yeast)-like	RP11-297K8.10, TOMM40B	
TOMM5	Translocase of outer mitochondrial membrane 5 homolog (yeast)	C9orf105, Tom5, bA613M10.3	
TOMM7	Translocase of outer mitochondrial membrane 7 homolog (yeast)	AD-014, TOM7	
TOP1	Topoisomerase (DNA) I	RP3-511B24.1, TOPI	√
TOP3B	Topoisomerase (DNA) III beta	TOP3B1	
TOPBP1	Topoisomerase (DNA) II binding protein 1	TOP2BP1	
TOPORS	Topoisomerase I binding, arginine/serine-rich, E3 ubiquitin protein ligase	RP11-205M20.5, LUN, P53BP3, RP31, TP53BPL	
TOR1A	Torsin family 1, member A (torsin A)	DQ2, DYT1	
TOR1AIP2	Torsin A interacting protein 2	RP11-12M5.5, IFRG15, LULL1, NET9	
TOR3A	Torsin family 3, member A	RP11-177A2.2, ADIR, ADIR2	
TOX	Thymocyte selection-associated high mobility group box	TOX1	
TP53BP1	Tumor protein p53 binding protein 1	53BP1, p202	
TP53BP2	Tumor protein p53 binding protein 2	53BP2, ASPP2, BBP, P53BP2, PPP1R13A	
TP53INP1	Tumor protein p53 inducible nuclear protein 1	SIP, TP53DINP1A, TP53INP1B, Teap, p53DINP1, TP53INP1	
TP53RK	TP53 regulating kinase	RP1-28H20.1, BUD32, C20orf64, Nori-2, Nori-2p, PRPK, dJ101A3.2	
TP63	Tumor protein p63	AIS, B(p51A), B(p51B), EEC3, KET, LMS, NBP, OFC8, RHS, SHFM4, TP53CP, TP53L, TP73L, p40, p51	
TP73	Tumor protein p73	P73	
TPCN2	Two pore segment channel 2	SHEP10, TPC2	
TPD52	Tumor protein D52	D52, N8L, PC-1, PrLZ, hD52	
TPD52L1	Tumor protein D52-like 1	D53, hD53	

TPD52L2	Tumor protein D52-like 2	RP4-591C20.2, D54	
TPD52L3	Tumor protein D52-like 3	NYDSP25, hD55	
TPM1	Tropomyosin 1 (alpha)	C15orf13, CMD1Y, CMH3, HTM-alpha, LVNC9, TMSA	
TPM3	Tropomyosin 3	RP11-205M9.1, CAPM1, CFTD, HEL-189, HEL-S-82p, NEM1, OK/SW-cl.5, TM-5, TM3, TM30, TM30nm	√
TPMT	Thiopurine S-methyltransferase		
TPP1	Tripeptidyl peptidase I	GIG1, CLN2, LPIC, SCAR7, TPP-1	
TPP2	Tripeptidyl peptidase II	RP11-29B2.2, TPP-2	
TPPP	Tubulin polymerization promoting protein	TPPP/p251, p24, p25, p25alpha, TPPP	
TPRG1	Tumor protein p63 regulated 1	FAM79B	
TPRX1	Tetra-peptide repeat homeobox 1	TPRX	
TPRXL	Tetra-peptide repeat homeobox-like		
TPST2	Tyrosylprotein sulfotransferase 2	CTA-445C9.10-003, TANGO13B	
TPTE2P1	Transmembrane phosphoinositide 3-phosphatase and tensin homolog 2	RP11-756A22.3	
TPX2	TPX2, microtubule-associated	RP11-243J16.10-002, C20orf1, C20orf2, DIL-2, DIL2, FLS353, GD:C20orf1, HCA519, HCTP4, REPP86, p100	
TRA@			√
TRAC	T cell receptor alpha constant	IMD7, TCRA, TRA, TRCA	
TRADD	TNFRSF1A-associated via death domain	Hs.89862	
TRAF1	TNF receptor-associated factor 1	EBI6, MGC:10353	
TRAF3IP2	TRAF3 interacting protein 2	RP3-487J7.3, ACT1, C6orf2, C6orf4, C6orf5, C6orf6, CANDF8, CIKS, PSORS13	
TRAF5	TNF receptor-associated factor 5	RP11-318L16.2, MGC:39780, RNF84	
TRAJ17	T cell receptor alpha joining 17		
TRAK1	Trafficking protein, kinesin binding 1	MILT1, OIP106	
TRAK2	Trafficking protein, kinesin binding 2	ALS2CR3, CALS-C, GRIF-1, GRIF1, MILT2, OIP98	
TRAM1	Translocation associated membrane protein 1	PNAS8, TRAM, TRAMP	
TRAM1L1	Translocation associated membrane protein 1-like 1		
TRANK1	Tetratricopeptide repeat and ankyrin repeat containing 1	LBA1	
TRAPPC10	Trafficking protein particle complex 10	EHOC-1, EHOC1, GT334, TMEM1, TRS130, TRS30	
TRAPPC2	Trafficking protein particle complex 2	MIP2A, SEDL, SEDT1P1, TRS20, ZNF547L, hYP38334, TRAPPC2	
TRAPPC2P1	Trafficking protein particle complex 2 pseudogene 1	MIP-2A, SEDLP, SEDLP1	
TRAPPC6B	Trafficking protein particle complex 6B	TPC6	
TRAT1	T cell receptor associated transmembrane adaptor 1	HSPC062, TCRIM, TRIM	
TRAV20	T cell receptor alpha variable 20	TCRAV20S1, TCRAV30S1	
TRDMT1	TRNA aspartic acid methyltransferase 1	RP11-406H21.1, DMNT2, DNMT2, MHSAIIP, PUMET, RNMT1	

TRDN	Triadin	RP11-167I10.1, CPVT5, TDN, TRISK	
TRDV2	T cell receptor delta variable 2	hDV102S1	
TREM1	Triggering receptor expressed on myeloid cells 1	CD354, TREM-1	
TREML4	Triggering receptor expressed on myeloid cells-like 4	UNQ9425/PRO34675, TLT-4, TLT4	
TRERF1	Transcriptional regulating factor 1	RP1-139D8.5, BCAR2, HSA277276, KAPA, TREP132, TReP-132, dJ139D8.5	
TRHDE	Thyrotropin-releasing hormone degrading enzyme	UNQ2507/PRO5995, PAP-II, PGPEP2, TRH-DE	
TRIAP1	TP53 regulated inhibitor of apoptosis 1	HSPC132, MDM35, P53CSV, WF-1	
TRIL	TLR4 interactor with leucine-rich repeats		
TRIM13	Tripartite motif containing 13	CAR, DLEU5, LEU5, RFP2, RNF77	
TRIM14	Tripartite motif containing 14		
TRIM2	Tripartite motif containing 2	CMT2R, RNF86	
TRIM22	Tripartite motif containing 22	GPSTAF50, RNF94, STAF50	
TRIM23	Tripartite motif containing 23	ARD1, ARFD1, RNF46	
TRIM25	Tripartite motif containing 25	EFP, RNF147, Z147, ZNF147	
TRIM27	Tripartite motif containing 27	DAAP-182E11.3, RFP, RNF76	√
TRIM3	Tripartite motif containing 3	BERP, HAC1, RNF22, RNF97	
TRIM33	Tripartite motif containing 33	ECTO, PTC7, RFG7, TF1G, TIF1G, TIF1GAMMA, TIFGAMMA	√
TRIM34	Tripartite motif containing 34	IFP1, RNF21	
TRIM35	Tripartite motif containing 35	HLS5, MAIR	
TRIM36	Tripartite motif containing 36	HAPRIN, RBCC728, RNF98	
TRIM39	Tripartite motif containing 39	DAAP-385L22.4, RNF23, TFPB, TRIM39	
TRIM4	Tripartite motif containing 4	RNF87	
TRIM41	Tripartite motif containing 41	RINCK	
TRIM42	Tripartite motif containing 42	PPP1R40	
TRIM44	Tripartite motif containing 44	DIPB, HSA249128, MC7	
TRIM47	Tripartite motif containing 47	GOA, RNF100	
TRIM55	Tripartite motif containing 55	MURF-2, RNF29, muRF2	
TRIM61	Tripartite motif containing 61	RNF35	
TRIM64	Tripartite motif containing 64	C11orf28A, TRIM64	
TRIM69	Tripartite motif containing 69	hCG_39321, HSD-34, HSD34, RNF36, Trif	
TRIM6-TRIM34	TRIM6-TRIM34 readthrough	IFP1, RNF21, TRIM34	
TRIM71	Tripartite motif containing 71, E3 ubiquitin protein ligase	LIN-41, LIN41	
TRIM78P	Tripartite motif containing 78, pseudogene		

TRIM9	Tripartite motif containing 9	RNF91, SPRING	
TRIML2	Tripartite motif family-like 2	SPRYD6	
TRIO	Trio Rho guanine nucleotide exchange factor	ARHGEF23, tgat	
TRIP13	Thyroid hormone receptor interactor 13	16E1BP	
TRMT2A	TRNA methyltransferase 2 homolog A (S. cerevisiae)	HTF9C	
TRMT5	TRNA methyltransferase 5	KIAA1393, TRM5	
TRMT6	TRNA methyltransferase 6 homolog (S. cerevisiae)	CGI-09, GCD10, Gcd10p	
TRNAU1AP	TRNA selenocysteine 1 associated protein 1	RP4-669K10.4, PRO1902, SECP43, TRSPAP1	
TRNP1	TMF1-regulated nuclear protein 1	C1orf225, TNRP	
TROVE2	TROVE domain family, member 2	RP11-101E13.3, RO60, RORNP, SSA2	
TRPA1	Transient receptor potential cation channel, subfamily A, member 1		
TRPC1	Transient receptor potential cation channel, subfamily C, member 1	HTRP-1, TRP1	
TRPC5	Transient receptor potential cation channel, subfamily C, member 5	RP1-68D15.2, PPP1R159, TRP5	
TRPC6	Transient receptor potential cation channel, subfamily C, member 6	FSGS2, TRP6	
TRPM3	Transient receptor potential cation channel, subfamily M, member 3	RP11-141J10.3, GON-2, LTRPC3, MLSN2	
TRPM6	Transient receptor potential cation channel, subfamily M, member 6	RP11-174B4.1, CHAK2, HMGX, HOMG, HOMG1, HSH	
TRPM7	Transient receptor potential cation channel, subfamily M, member 7	ALS-PDC, CHAK, CHAK1, LTRPC7, LTrpC-7, TRP-PLIK	
TRPM8	Transient receptor potential cation channel, subfamily M, member 8	LTRPC6, TRPP8	
TRPS1	Trichorhinophalangeal syndrome I	GC79, LGCR	
TRPV1	Transient receptor potential cation channel, subfamily V, member 1	VR1	
TRPV6	Transient receptor potential cation channel, subfamily V, member 6	ABP/ZF, CAT1, CATL, ECAC2, HSA277909, LP6728, ZFAB	
TRRAP	Transformation/transcription domain-associated protein	PAF350/400, PAF400, STAF40, TR-AP, Tra1	√
TRUB1	TRNA pseudouridine (55) synthase family member 1	PUS4	
TSC1	Tuberous sclerosis 1	LAM, TSC	√
TSC22D2	TSC22 domain family, member 2	TILZ4a, TILZ4b, TILZ4c	
TSEN2	TSEN2 tRNA splicing endonuclease subunit	PCH2B, SEN2, SEN2L	
TSEN34	TSEN34 tRNA splicing endonuclease subunit	XXbac-BCX105G6.5, LENG5, PCH2C, SEN34, SEN34L	
TSFM	Ts translation elongation factor, mitochondrial	EFTS, EFTSMT	
TSG1	Tumor suppressor TSG1		
TSG101	Tumor susceptibility 101	TSG10, VPS23	
TSGA10	Testis specific, 10	CEP4L, CT79	
TSGA14	Testis specific, 14		
TSHR	Thyroid stimulating hormone receptor	CHNG1, LGR3, hTSHR-I	√

TSIX	TSIX transcript, XIST antisense RNA	LINC00013, NCRNA00013, XIST-AS, XIST-AS1, XISTAS	
TSL	Testis-expressed, seven-twelve, leukemia		
TSLP	Thymic stromal lymphopoietin		
TSNAX	Translin-associated factor X	RP11-17H4.1, TRAX	
TSNAX-DISC1	TSNAX-DISC1 readthrough (NMD candidate)		
TSPAN11	Tetraspanin 11	UNQ1971, VSSW1971	
TSPAN12	Tetraspanin 12	UNQ774/PRO1568, EVR5, NET-2, NET2, TM4SF12	
TSPAN14	Tetraspanin 14	RGD1305714	
TSPAN16	Tetraspanin 16	TM-8, TM4-B, TM4SF16	
TSPAN18	Tetraspanin 18	UNQ3042/PRO9858, TSPAN	
TSPAN32	Tetraspanin 32	ART1, PHEMX, PHMX, TSSC6	
TSPAN7	Tetraspanin 7	A15, CCG-B7, CD231, DXS1692E, MRX58, MXS1, TALLA-1, TM4SF2, TM4SF2b	
TSPAN8	Tetraspanin 8	CO-029, TM4SF3	
TSPAN9	Tetraspanin 9	NET-5, NET5, PP1057	
TSPYL2	TSPY-like 2	RP1-290F12.2, CDA1, CINAP, CTCL, DENTT, HRIHFB2216, NP79, SE204, TSPX	
TSPYL4	TSPY-like 4	RP3-486I3.2, dJ486I3.2	
TSPYL5	TSPY-like 5		
TSTD2	Thiosulfate sulfurtransferase (rhodanese)-like domain containing 2	RP11-244N9.5, C9orf97	
TTBK1	Tau tubulin kinase 1	RP3-330M21.4, BDTK	
TTC14	Tetratricopeptide repeat domain 14	UNQ5813, DRDL5813, PRO19630	
TTC15	Tetratricopeptide repeat domain 15	TRAPPC12	
TTC23	Tetratricopeptide repeat domain 23	HCC8, HCC-8	
TTC23L	Tetratricopeptide repeat domain 23-like	MC25-1	
TTC28	Tetratricopeptide repeat domain 28	RP3-477H23.1, TPRBK	
TTC30B	Tetratricopeptide repeat domain 30B	IFT70, fleer	
TTC32	Tetratricopeptide repeat domain 32		
TTC33	Tetratricopeptide repeat domain 33	OSRF	
TTC35			
TTC38	Tetratricopeptide repeat domain 38	LL22NC03-5H6.5	
TTC39A	Tetratricopeptide repeat domain 39A	C1orf34, DEME-6	
TTC39C	Tetratricopeptide repeat domain 39C	C18orf17, HsT2697	
TTC5	Tetratricopeptide repeat domain 5	Strap	
TTC8	Tetratricopeptide repeat domain 8	BBS8, RP51	

TTC9	Tetratricopeptide repeat domain 9	TTC9A	
TTF1	Transcription termination factor, RNA polymerase I	TTF-1, TTF-I	
TTLL13	Tubulin tyrosine ligase-like family, member 13		
TTLL2	Tubulin tyrosine ligase-like family, member 2	C6orf104, NYD-TSPG, dJ366N23.3	
TTLL3	Tubulin tyrosine ligase-like family, member 3	PRO0207, HOTTL	
TTLL5	Tubulin tyrosine ligase-like family, member 5	CORD19, KIAA0998, STAMP	
TTLL7	Tubulin tyrosine ligase-like family, member 7	RP5-836J3.2	
TTPAL	Tocopherol (alpha) transfer protein-like	RP1-179M20.4, C20orf121	
TTTY1	Testis-specific transcript, Y-linked 1 (non-protein coding)	LINC00033, NCRNA00033, TTY1	
TTTY12	Testis-specific transcript, Y-linked 12 (non-protein coding)	TTY11; TTY12; NCRNA00135	
TTTY15	Testis-specific transcript, Y-linked 15 (non-protein coding)	NCRNA00138	
TTTY23B	Testis-specific transcript, Y-linked 23B (non-protein coding)	TTTY23	
TTTY2B	Testis-specific transcript, Y-linked 2B (non-protein coding)		
TTTY4B	Testis-specific transcript, Y-linked 4B (non-protein coding)	LINC00124; NCRNA00124	
TTTY6	Testis-specific transcript, Y-linked 6 (non-protein coding)	TTY6; TTTY6A; LINC00127; NCRNA00127	
TTTY6B	Testis-specific transcript, Y-linked 6B (non-protein coding)	TTY6; TTTY6; LINC00128; NCRNA00128	
TTTY7	Testis-specific transcript, Y-linked 7 (non-protein coding)	TTY7; TTTY7A; TTTY7B; LINC00129; NCRNA00129; CLONE795722	
TTTY7B	Testis-specific transcript, Y-linked 7B (non-protein coding)	NCRNA00215	
TTYH1	Tweety family member 1	XXbac-BCX535A19.1	
TTYH2	Tweety family member 2	C17orf29	
TUB	Tubby bipartite transcription factor	rd5	
TUBAL3	Tubulin, alpha-like 3		
TUBB	Tubulin, beta class I	DAAP-285E11.4, CDCBM6, M40, OK/SW-cl.361, TUBB5, TUBB	
TUBE1	Tubulin, epsilon 1	RP1-142L7.1, TUBE, dJ142L7.2	
TUBGCP4	Tubulin, gamma complex associated protein 4	76P, GCP-4, GCP4, Grip76	
TUFM	Tu translation elongation factor, mitochondrial	COXPD4, EF-TuMT, EFTU, P43	
TUFT1	Tuftelin 1	RP11-74C1.1	
TUG1	Taurine up-regulated 1 (non-protein coding)	LINC00080, NCRNA00080, TI-227H	
TULP3	Tubby like protein 3	TUBL3	
TULP4	Tubby like protein 4	RP3-442A17.1, TUSP	
TUSC3	Tumor suppressor candidate 3	D8S1992, M33, MRT22, MRT7, N33, OST3A	
TUSC5	Tumor suppressor candidate 5	DSPB1, IFITMD3, LOST1	
TWF1	Twinfilin actin-binding protein 1	A6, PTK9	

TWIST1	Twist family bHLH transcription factor 1	ACS3, BPES2, BPES3, CRS, CRS1, SCS, TWIST, bHLHa38	
TWISTNB	TWIST neighbor		
TXK	TXK tyrosine kinase	BTKL, PSCTK5, PTK4, RLK, TKL	
TXLNA	Taxilin alpha	RP4-622L5.4, IL14, TXLN	
TXLNB	Taxilin beta	RP3-522B19.2, C6orf198, LST001, MDP77, dJ522B19.2	
TXLNG	Taxilin gamma	RP11-716A19.4, CXorf15, ELRG, FIAT, LSR5X, TXLNG	
TXNDC12	Thioredoxin domain containing 12 (endoplasmic reticulum)	UNQ713/PRO1376, AG1, AGR1, ERP16, ERP18, ERP19, PDIA16, TLP19, hAG-1, hTLP19	
TXNDC15	Thioredoxin domain containing 15	UNQ335/PRO534, C5orf14, UNQ335	
TXNDC17	Thioredoxin domain containing 17	TRP14, TXNL5	
TXNDC2	Thioredoxin domain containing 2 (spermatozoa)	SPTRX, SPTRX1	
TXNDC3			
TXNRD1	Thioredoxin reductase 1	GRIM-12, TR, TR1, TRXR1, TXNR	
TYSND1	Trypsin domain containing 1	NET41	
U2AF1	U2 small nuclear RNA auxiliary factor 1	FP793, RN, RNU2AF1, U2AF35, U2AFBP	√
UACA	Uveal autoantigen with coiled-coil domains and ankyrin repeats	NUCLING	
UBA5	Ubiquitin-like modifier activating enzyme 5	THIFP1, UBE1DC1	
UBA6	Ubiquitin-like modifier activating enzyme 6	E1-L2, MOP-4, UBE1L2	
UBAC1	UBA domain containing 1	RP11-432J22.3, GBDR1, UBADC1	
UBAC2	UBA domain containing 2	RP11-178C10.1, PHGDHL1	
UBAP1	Ubiquitin associated protein 1	RP11-571F15.1, NAG20, UAP, UBAP, UBAP-1	
UBAP2	Ubiquitin associated protein 2	RP11-176F3.6, UBAP-2	
UBAP2L	Ubiquitin associated protein 2-like	RP11-205M9.4, NICE-4	
UBASH3A	Ubiquitin associated and SH3 domain containing A	CLIP4, STS-2, TULA, TULA-1	
UBASH3B	Ubiquitin associated and SH3 domain containing B	STS-1, STS1, TULA-2, p70	
UBE2A	Ubiquitin-conjugating enzyme E2A	HHR6A, MRXS30, MRXSN, RAD6A, UBC2	
UBE2B	Ubiquitin-conjugating enzyme E2B	E2-17kDa, HHR6B, HR6B, RAD6B, UBC2	
UBE2CBP	Ubiquitin protein ligase E3D	RP4-751H9.1, C6orf157, H10BH, UBE2CBP, YJR141W	
UBE2D1	Ubiquitin-conjugating enzyme E2D 1	E2(17)KB1, SFT, UBC4/5, UBCH5, UBCH5A	
UBE2D3	Ubiquitin-conjugating enzyme E2D 3	E2(17)KB3, UBC4/5, UBCH5C	
UBE2E1	Ubiquitin-conjugating enzyme E2E 1	UBCH6	
UBE2F	Ubiquitin-conjugating enzyme E2F (putative)	NCE2	
UBE2G1	Ubiquitin-conjugating enzyme E2G 1	E217K, UBC7, UBE2G	
UBE2J1	Ubiquitin-conjugating enzyme E2, J1	CGI-76, HSPC153, HSPC205, HSU93243, NCUBE-1, NCUBE1, UBC6, Ubc6p	

UBE2K	Ubiquitin-conjugating enzyme E2K	E2-25K, HIP2, HYPG, LIG, UBC1	
UBE2L3	Ubiquitin-conjugating enzyme E2L 3	E2-F1, L-UBC, UBCH7, UbcM4	
UBE2M	Ubiquitin-conjugating enzyme E2M	UBC-RS2, UBC12, hUbc12	
UBE2O	Ubiquitin-conjugating enzyme E2O	E2-230K	
UBE2Q1	Ubiquitin-conjugating enzyme E2Q family member 1	PRO3094, GTAP, NICE-5, UBE2Q	
UBE2Q2P2	Ubiquitin-conjugating enzyme E2Q family member 2 pseudogene 2	UBE2QP2; UBE2Q2P3	
UBE2QL1	Ubiquitin-conjugating enzyme E2Q family-like 1		
UBE2R2	Ubiquitin-conjugating enzyme E2R 2	RP11-176F3.4, CDC34B, E2-CDC34B, UBC3B	
UBE2W	Ubiquitin-conjugating enzyme E2W (putative)	UBC-16, UBC16	
UBE2Z	Ubiquitin-conjugating enzyme E2Z	HOYS7, USE1	
UBE3A	Ubiquitin protein ligase E3A	ANCR, AS, E6-AP, EPVE6AP, HPVE6A	
UBE3B	Ubiquitin protein ligase E3B	BPIDS	
UBE3C	Ubiquitin protein ligase E3C	tcag7.998, HECTH2	
UBE4A	Ubiquitination factor E4A	E4, UBOX2, UFD2	
UBE4B	Ubiquitination factor E4B	E4, HDNB1, UBOX3, UFD2, UFD2A	
UBIAD1	UbiA prenyltransferase domain containing 1	RP4-796F18.1, SCCD, TERE1	
UBL3	Ubiquitin-like 3	HCG-1, PNSC1	
UBL4A	Ubiquitin-like 4A	XX-FW8903B12.1, DX254E, DX3254E, G6PD, GDX, GET5, MDY2, TMA24, UBL4	
UBL4B	Ubiquitin-like 4B		
UBN2	Ubinuclein 2	tcag7.1228	
UBP1	Upstream binding protein 1 (LBP-1a)	LBP-1B, LBP-1a, LBP1A, LBP1B	
UBQLNL	Ubiquilin-like		
UBR2	Ubiquitin protein ligase E3 component n-recognin 2	RP5-992M17.3, C60H155, bA49A4.1, dJ242G1.1, dJ292M17.2	
UBR3	Ubiquitin protein ligase E3 component n-recognin 3 (putative)	ZNF650	
UBR4	Ubiquitin protein ligase E3 component n-recognin 4	RP5-1126H10.1, RBAF600, ZUBR1, p600	
UBR5	Ubiquitin protein ligase E3 component n-recognin 5	DD5, EDD, EDD1, HYD	√
UBTD2	Ubiquitin domain containing 2	SB72, DCUBP	
UBTF	Upstream binding transcription factor, RNA polymerase I	NOR-90, UBF, UBF-1, UBF1, UBF2	
UBXN10	UBX domain protein 10	UBXD3	
UBXN2B	UBX domain protein 2B	p37	
UBXN8	UBX domain protein 8	D8S2298E, REP8, UBXD6	
UCHL5	Ubiquitin carboxyl-terminal hydrolase L5	RP11-101E13.2, CGI-70, INO80R, UCH-L5, UCH37	
UCK1	Uridine-cytidine kinase 1	RP11-334J6.5, URK1	

UCP3	Uncoupling protein 3 (mitochondrial, proton carrier)	SLC25A9	
UFD1L	Ubiquitin fusion degradation 1 like (yeast)	UFD1	
UFM1	Ubiquitin-fold modifier 1	RP11-131P10.1, BM-002, C13orf20	
UFSP2	UFM1-specific peptidase 2	C4orf20	
UGDH	UDP-glucose 6-dehydrogenase	GDH, UDP-GlcDH, UDPGDH, UGD	
UGGT1	UDP-glucose glycoprotein glucosyltransferase 1	HUGT1, UGCGL1, UGT1	
UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	RP11-31K22.2, HUGT2, UGCGL2, UGT2	
UGT1A1	UDP glucuronosyltransferase 1 family, polypeptide A1	BILIQTL1, GNT1, HUG-BR1, UDPGT, UDPGT 1-1, UGT1, UGT1A	
UGT1A10	UDP glucuronosyltransferase 1 family, polypeptide A10	UDPGT, UGT-1J, UGT1-10, UGT1.10, UGT1J	
UGT1A3	UDP glucuronosyltransferase 1 family, polypeptide A3	UDPGT, UDPGT 1-3, UGT-1C, UGT1-03, UGT1.3, HUG-BR2, UDPGT, UDPGT 1-4, UGT-1D, UGT1-04, UGT1.4, UGT1D	
UGT1A4	UDP glucuronosyltransferase 1 family, polypeptide A4		
UGT1A5	UDP glucuronosyltransferase 1 family, polypeptide A5	UDPGT, UDPGT 1-5, UGT1E	
UGT1A6	UDP glucuronosyltransferase 1 family, polypeptide A6	GNT1, HLUGP, HLUGP1, UDPGT, UDPGT 1-6, UGT1S, UGT1F, UGT1A6-1G, UGT1-07, UGT1.7, UDPGT, UDPGT 1-8, UGT-1H, UGT1-08, UGT1.8S, UGT1H, UGT1A8	
UGT1A7	UDP glucuronosyltransferase 1 family, polypeptide A7		
UGT1A8	UDP glucuronosyltransferase 1 family, polypeptide A8		
UGT2B28	UDP glucuronosyltransferase 2 family, polypeptide B28		
UHMK1	U2AF homology motif (UHM) kinase 1	KIS, KIST, P-CIP2	
UHRF1	Ubiquitin-like with PHD and ring finger domains 1	ICBP90, Np95, RNF106, hNP95, hUHRF1, huNp95	
UHRF1BP1	UHRF1 binding protein 1	RP3-349A12.1, C6orf107, ICBP90, dJ349A12.1	
UHRF1BP1L	UHRF1 binding protein 1-like	SHIP164	
UHRF2	Ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase	RP11-472F14.2, NIRF, RNF107, URF2	
UIMC1	Ubiquitin interaction motif containing 1	RAP80, X2HRIP110	
ULK1	Unc-51 like autophagy activating kinase 1	ATG1, ATG1A, UNC51, Unc51.1, hATG1	
ULK2	Unc-51 like kinase 2	KP23-278F12.3, A830085J22Rik, AU015340, Unc51.2, mKIAA0622	
ULK3	Unc-51 like kinase 3		
ULK4	Unc-51 like kinase 4	hCG_1996673, FAM7C1, REC01035	
UMPS	Uridine monophosphate synthetase	OK/SW-cl.21, OPRT	
UNC119B	Unc-119 homolog B *(C. elegans)*	hCG_27366, POC7B	
UNC13A	Unc-13 homolog A *(C. elegans)*	Munc13-1	
UNC13C	Unc-13 homolog C *(C. elegans)*	Unc13h3	
UNC45B	Unc-45 homolog B *(C. elegans)*	CMYA4, SMUNC45, UNC45	
UNC5A	Unc-5 homolog A *(C. elegans)*	UNC5H1	
UNC5B	Unc-5 homolog B *(C. elegans)*	RP11-58O1.1, UNC5H2, p53RDL1	

UNC5D	Unc-5 homolog D *(C. elegans)*	UNQ6012/PRO34692, PRO34692, Unc5h4	
UNC80	Unc-80 homolog *(C. elegans)*	C2orf21, UNC-80	
UNKL	Unkempt family zinc finger-like	LA16c-316G12.1, C16orf28, ZC3H5L, ZC3HDC5L	
UPB1	Ureidopropionase, beta	BUP1	
UPF0639			
UPP2	Uridine phosphorylase 2	UDRPASE2, UP2, UPASE2	
UPRT	Uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae)	RP11-311P8.3, FUR1, UPP	
UQCC	Ubiquinol-cytochrome c reductase complex chaperone	BOS_13488C20orf44	
UQCR11	Ubiquinol-cytochrome c reductase, complex III subunit XI	0710008D09Rik, QCR10, UQCR	
URB1	URB1 ribosome biogenesis 1 homolog (S. cerevisiae)	C21orf108, NPA1	
URM1	Ubiquitin-related modifier URM1	YIL008W	
USH1G	Usher syndrome 1G (autosomal recessive)	ANKS4A, SANS	
USH2A	Usher syndrome 2A (autosomal recessive, mild)	RP39, US2, USH2, dJ1111A8.1	
USO1	USO1 vesicle transport factor	P115, TAP, VDP	
USP1	Ubiquitin specific peptidase 1	UBP	
USP13	Ubiquitin specific peptidase 13 (isopeptidase T-3)	ISOT3, IsoT-3	
USP14	Ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	UNPH-2, UNPH4	
USP15	Ubiquitin specific peptidase 15	UNPH-2, UNPH4	
USP17	Ubiquitin specific peptidase 17-like family member 9, pseudogene	hCG_1807742, K3447, USP17, USP17A, USP17H, USP17J, USP17L, USP17K, USP17L, USP17M	
USP2	Ubiquitin specific peptidase 2	UBP41, USP9	
USP24	Ubiquitin specific peptidase 24	hCG_33036	
USP25	Ubiquitin specific peptidase 25	USP21	
USP28	Ubiquitin specific peptidase 28		
USP31	Ubiquitin specific peptidase 31	RP11-20G6.3	
USP32	Ubiquitin specific peptidase 32	NY-REN-60, USP10	
USP33	Ubiquitin specific peptidase 33	VDU1	
USP36	Ubiquitin specific peptidase 36	DUB1	
USP37	Ubiquitin specific peptidase 37		
USP40	Ubiquitin specific peptidase 40		
USP42	Ubiquitin specific peptidase 42	tcag7.880	
USP45	Ubiquitin specific peptidase 45	RP11-98I9.5	
USP46	Ubiquitin specific peptidase 46		
USP47	Ubiquitin specific peptidase 47	TRFP	

USP53	Ubiquitin specific peptidase 53		
USP54	Ubiquitin specific peptidase 54	RP11-137L10.4, C10orf29, bA137L10.3, bA137L10.4	
USP6NL	USP6 N-terminal like	RP11-89C21.1, RNTRE, TRE2NL-IT1, USP6NL	
USP8	Ubiquitin specific peptidase 8	HumORF8, SPG59, UBPY	
USP9X	Ubiquitin specific peptidase 9, X-linked	RP5-1172N10.4, DFFRX, FAF, FAM, MRX99	
USP9Y	Ubiquitin specific peptidase 9, Y-linked	DFFRY, SPGFY2	
USPL1	Ubiquitin specific peptidase like 1	RP11-121O19.1, C13orf22, D13S106E, bA121O19.1	
UST	Uronyl-2-sulfotransferase	2OST	
UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)	C8orf53	
UTRN	Utrophin	RP11-352E13.1, DMDL, DRP, DRP1	
UTS2	Urotensin 2	UNQ525/PRO1068, PRO1068, U-II, UCN2, UII	
UVRAG	UV radiation resistance associated	DHTX, VPS38, p63	
VAMP1	Vesicle-associated membrane protein 1 (synaptobrevin 1)	SPAX1, SYB1, VAMP-1	
VAMP4	Vesicle-associated membrane protein 4	RP4-560B9.3, VAMP-4, VAMP24	
VAMP7	Vesicle-associated membrane protein 7	SYBL1, TI-VAMP, TIVAMP, VAMP-7	
VANGL1	VANGL planar cell polarity protein 1	KITENIN, LPP2, STB2, STBM2	
VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	VAP-33, VAP-A, VAP33, hVAP-33	
VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C	RP5-1018E9.1, ALS8, VAMP-B, VAP-B	
VARS2	Valyl-tRNA synthetase 2, mitochondrial	DADB-160J14.3, COXPD20, VALRS2L, VARS2L, VARS2	
VASH1	Vasohibin 1	KIAA1036	
VASH2	Vasohibin 2	RP11-275G3.1	
VAT1L	Vesicle amine transport 1-like		
VAV3	Vav 3 guanine nucleotide exchange factor		
VAX1	Ventral anterior homeobox 1	RP11-501J20.1, MCOPS11	
VBP1	Von Hippel-Lindau binding protein 1	RP13-228J13.4, PFD3, PFDN3, VBP-1	
VCAM1	Vascular cell adhesion molecule 1	CD106, INCAM-100	
VCAN	Versican	CSPG2, ERVR, GHAP, PG-M, WGN, WGN1	
VCL	Vinculin	RP11-178G16.3, CMD1W, CMH15, HEL114, MV, MVCL	
VCPIP1	Valosin containing protein (p97)/p47 complex interacting protein 1	DUBA3, VCIP135	
VCX	Variable charge, X-linked	VCX-10r-B1, VCX1, VCX10R, VCXB1, VCX	
VCX2	Variable charge, X-linked 2	VCX-2rR, VCXB, VCX2	
VCX3A	Variable charge, X-linked 3A	VCX3; VCXA; VCX-A; VCX8R; VCX-8r	
VCX3B	Variable charge, X-linked 3B	VCX-C, VCXC	

VCY	Variable charge, Y-linked	BPY11, VCY1A, VCY	
VCY1B	Variable charge, Y-linked 1B	BPY1B	
VDAC1	Voltage-dependent anion channel 1	PORIN, VDAC-1	
VDR	Vitamin D (1,25- dihydroxyvitamin D3) receptor	NR1I1, PPP1R163	
VEGFA	Vascular endothelial growth factor A	RP1-261G23.1, MVCD1, VEGF, VPF	
VEPH1	Ventricular zone expressed PH domain-containing 1	MELT, VEPH	
VEZF1	Vascular endothelial zinc finger 1	DB1, ZNF161	
VEZT	Vezatin, adherens junctions transmembrane protein	VEZATIN	
VGLL2	Vestigial-like family member 2	RP1-179P9.2, VGL2, VITO1	
VGLL3	Vestigial-like family member 3	VGL-3, VGL3	
VGLL4	Vestigial-like family member 4	VGL-4	
VIP	Vasoactive intestinal peptide	RP4-546K19.1, PHM27	
VIPR1	Vasoactive intestinal peptide receptor 1	HVR1, II, PACAP-R-2, PACAP-R2, RDC1, VIRG,	
VIPR2	Vasoactive intestinal peptide receptor 2	tcag7.561, UT6DUPq36.3, DUP7q36.3, PACAP-R-3,	
VLDLR	Very low density lipoprotein receptor	RP11-320E16.1, CARMQ1, CHRMQ1CH, VLDLR	
VMA21	VMA21 vacuolar H+-ATPase homolog (S. cerevisiae)	MEAX, XMEA	
VN1R103P	Vomeronasal 1 receptor 103 pseudogene	MEAX, XMEA	
VNN2	Vanin 2	FOAP-4, GPI-80	
VPRBP	Vpr (HIV-1) binding protein	DCAF1	
VPS13A	Vacuolar protein sorting 13 homolog A (S. cerevisiae)	RP11-498N2.1, CHAC, CHOREIN	
VPS13B	Vacuolar protein sorting 13 homolog B (yeast)	CHS1, COH1	
VPS13C	Vacuolar protein sorting 13 homolog C (S. cerevisiae)		
VPS13D	Vacuolar protein sorting 13 homolog D (S. cerevisiae)		
VPS24			
VPS26A	Vacuolar protein sorting 26 homolog A (S. pombe)	HB58, Hbeta58, PEP8A, VPS26	
VPS33B	Vacuolar protein sorting 33 homolog B (yeast)		
VPS36	Vacuolar protein sorting 36 homolog (S. cerevisiae)	CGI-145, C13orf9, EAP45	
VPS37A	Vacuolar protein sorting 37 homolog A (S. cerevisiae)	HCRP1, PQBP2, SPG53	
VPS37C	Vacuolar protein sorting 37 homolog C (S. cerevisiae)		
VPS39	Vacuolar protein sorting 39 homolog (S. cerevisiae)	TLP, VAM6, hVam6p	
VPS41	Vacuolar protein sorting 41 homolog (S. cerevisiae)	HVPS41, HVSP41, hVps41p	
VPS45	Vacuolar protein sorting 45 homolog (S. cerevisiae)	RP11-458I7.2, H1, H1VPS45, SCN5A, VPS45B,	
VPS53	Vacuolar protein sorting 53 homolog (S. cerevisiae)	PP13624, HCCS1, PCH2E, hVps53L, pp13624	

VPS54	Vacuolar protein sorting 54 homolog (S. cerevisiae)	HCC8, PPP1R164, SLP-8pL, WR, hVps54L, VPS54	
VPS72	Vacuolar protein sorting 72 homolog (S. cerevisiae)	RP11-68I18.8, CFL1, Swc2, TCFL1, YL-1, YL1	
VPS8	Vacuolar protein sorting 8 homolog (S. cerevisiae)	YAL002WFUN15, VPL8, VPT8	
VRK2	Vaccinia related kinase 2		
VRK3	Vaccinia related kinase 3		
VSIG1	V-set and immunoglobulin domain containing 1	RP5-889N15.1, 1700062D20Rik, GPA34, dJ889N15.1	
VSIG10	V-set and immunoglobulin domain containing 10		
VSNL1	Visinin-like 1	HLP3, HPCAL3, HUVISL1, VILIP, VILIP-1	
VSTM2A	V-set and transmembrane domain containing 2A		
VSX1	Visual system homeobox 1	RP5-1025A1.1, CAAS3, KTCN, KTCN1, PPCD, PPCD1, PPD, RINX	
VSX2	Visual system homeobox 2	CHX10, HOX10, MCOP2, MCOPCB3, RET1	
VTA1	Vesicle (multivesicular body) trafficking 1	HSPC228, C6orf55, DRG-1, DRG1, LIP5, My012, SBP1	
VTCN1	V-set domain containing T cell activation inhibitor 1	RP11-229A19.4, B7-H4, B7H4, B7S1, B7X, B7h.5, PRO1291, VCTN1	
VTI1A	Vesicle transport through interaction with t-SNAREs 1A	RP11-25C19.2, MMDS3, MVti1, VTI1RP2, Vti1-rp2	√
VWA2	Von Willebrand factor A domain containing 2	AMACO, CCSP-2, NET42	
VWA3B	Von Willebrand factor A domain containing 3B		
VWA5A	Von Willebrand factor A domain containing 5A	BCSC-1, BCSC1, LOH11CR2A	
VWA5B1	Von Willebrand factor A domain containing 5B1		
VWC2L	Von Willebrand factor C domain containing protein 2-like		
VWCE	Von Willebrand factor C and EGF domains	URG11, VWC1	
WAPAL	Wings apart-like homolog (Drosophila)	RP11-396M20.1, FOE, KIAA0261, WAPL	
WARS	Tryptophanyl-tRNA synthetase	GAMMA-2, IFI53, IFP53	
WASF1	WAS protein family, member 1	RP11-181P4.1, SCAR1, WAVE, WAVE1	
WASF2	WAS protein family, member 2	IMD2, SCAR2, WASF4, WAVE2, dJ393P12.2	
WASF3	WAS protein family, member 3	RP11-496O3.2, Brush-1, SCAR3, WAVE3	
WASL	Wiskott-Aldrich syndrome-like	N-WASP, NWASP	
WBP2NL	WBP2 N-terminal like	CTA-250D10.11-006, PAWP	
WDFY1	WD repeat and FYVE domain containing 1	FENS-1, WDF1, ZFYVE17	
WDFY3	WD repeat and FYVE domain containing 3	ALFY, ZFYVE25	
WDR17	WD repeat domain 17		
WDR20	WD repeat domain 20	DMR	
WDR26	WD repeat domain 26	PRO0852, CDW2, GID7, MIP2	
WDR27	WD repeat domain 27		

WDR33	WD repeat domain 33	NET14, WDC146	
WDR35	WD repeat domain 35	CED2, IFT121, IFTA1, SRTD7	
WDR36	WD repeat domain 36	GLC1G, TA-WDRP, TAWDRP, UTP21	
WDR37	WD repeat domain 37	RP11-529L18.2	
WDR4	WD repeat domain 4	TRM82, TRMT82	
WDR43	WD repeat domain 43	NET12, UTP5	
WDR45L	WDR45-like	BOS_19349	
WDR47	WD repeat domain 47	RP23-128G10.4, 1810073M12Rik, AA552998, mKIAA0892	
WDR60	WD repeat domain 60	tcag7.557, FAP163, SRPS6, SRTD8	
WDR61	WD repeat domain 61	REC14, SKI8	
WDR62	WD repeat domain 62	C19orf14, MCPH2	
WDR63	WD repeat domain 63	DIC3, NYD-SP29	
WDR66	WD repeat domain 66	CaM-IP4	
WDR67	WD repeat domain 67		
WDR69			
WDR7	WD repeat domain 7	TRAG	
WDR72	WD repeat domain 72	AI2A3	
WDR82	WD repeat domain 82	UNQ9342/PRO34047, MST107, MST107, PRO2730, PRO34047, SWD2, TMEM113A, WDR82	
WDYHV1	WDYHV motif containing 1	C8orf32	
WEE1	WEE1 G2 checkpoint kinase	WEE1Ahu, WEE1	
WFDC8	WAP four-disulfide core domain 8	RP3-461P17.3, C20orf170, WAP8, dJ461P17.1	
WFS1	Wolfram syndrome 1 (wolframin)	CTRCT41, WFRS, WFS, WFSL	
WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules	WHDC1	
WHAMML2	WAS protein homolog associated with actin, golgi membranes and microtubules	WHAMML2; WHDC1L2	
WHSC1	Wolf-Hirschhorn syndrome candidate 1	RP11-262P20.3, MMSET, NSD2, REIIBP, TRX5, WHS	√
WHSC2	Wolf-Hirschhorn syndrome candidate 2		
WIF1	WNT inhibitory factor 1	UNQ191/PRO217, WIF-1	√
WIPF1	WAS/WASL interacting protein family, member 1	PRPL-2, WASPIP, WIP	
WIPF2	WAS/WASL interacting protein family, member 2	PP10631, WICH, WIRE	
WIPI2	WD repeat domain, phosphoinositide interacting 2	CGI-50, ATG18B, Atg21, WIPI-2	
WISP1	WNT1 inducible signaling pathway protein 1	CCN4c, WISP1i, WISP1tc, WISP1	
WNK1	WNK lysine deficient protein kinase 1	HSAN2, HSN2, KDP, PPP1R167, PRKWNK1, PSK, p65	
WNT10B	Wingless-type MMTV integration site family, member 10B	SHFM6, WNT-12	

WNT11	Wingless-type MMTV integration site family, member 11	HWNT11	
WNT16	Wingless-type MMTV integration site family, member 16		
WNT2B	Wingless-type MMTV integration site family, member 2B	WNT13	
WNT5A	Wingless-type MMTV integration site family, member 5A	hWNT5A	
WNT5B	Wingless-type MMTV integration site family, member 5B		
WNT7B	Wingless-type MMTV integration site family, member 7B	RP11-435J19.1	
WRB	Tryptophan rich basic protein	CHD5	
WSB1	WD repeat and SOCS box containing 1	SWIP1, WSB-1	
WSB2	WD repeat and SOCS box containing 2	SBA2	
WSCD1	WSC domain containing 1		
WSCD2	WSC domain containing 2		
WTAP	Wilms tumor 1 associated protein	RP1-56L9.4	
WWC2	WW and C2 domain containing 2	BOMB	
WWC3	WWC family member 3	BM042	
WWP1	WW domain containing E3 ubiquitin protein ligase 1	AIP5, Tiul1, hSDRP1	
XAF1	XIAP associated factor 1	BIRC4BP, HSXIAPAF1, XIAPAF1	
XG	Xg blood group	PBDX	
XIAP	X-linked inhibitor of apoptosis	RP1-315G1.3, API3, BIRC4, IAP-3, ILP1, MIHA, XLP2, hIAP-3, hIAP3	
XIRP2	Xin actin-binding repeat containing 2	CMYA3	
XKR3	XK, Kell blood group complex subunit-related family, member 3	XRG3, XTES	
XKR8	XK, Kell blood group complex subunit-related family, member 8	RP11-460I13.3, XRG8, hXkr8	
XKR9	XK, Kell blood group complex subunit-related family, member 9	XRG9	
XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound	RP4-753P9.2, AEACEI, APP2	
XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative	RP11-554C12.3, APP3, NPHPL1	
XPO4	Exportin 4	exp4	
XPO7	Exportin 7	EXP7, RANBP16	
XPR1	Xenotropic and polytropic retrovirus receptor 1		
XRCC4	X-ray repair complementing defective repair in Chinese hamster cells 4		
XRN1	5'-3' exoribonuclease 1	41883	
XRRA1	X-ray radiation resistance associated 1		
XYLT1	Xylosyltransferase I	DBQD2, PXYLT1, XT-I, XT1, XTI, XYLTI	
YAF2	YY1 associated factor 2		
YAP1	Yes-associated protein 1	COB1, YAP, YAP2, YAP65, YKI	

YIPF4	Yip1 domain family, member 4	Nbla11189, FinGER4	
YIPF7	Yip1 domain family, member 7	FinGER9	
YJEFN3	YjeF N-terminal domain containing 3		
YKT6	YKT6 v-SNARE homolog *(S. cerevisiae)*		
YLPM1	YLP motif containing 1	C14orf170, PPP1R169, ZAP113, ZAP3	
YME1L1	YME1-like 1 ATPase	RP11-145E8.2, FTSH, MEG4, PAMP, YME1L	
YOD1	YOD1 deubiquitinase	RP11-164O23.1, DUBA8, OTUD2, PRO0907	
YPEL1	Yippee-like 1 (Drosophila)	FKSG3	
YPEL2	Yippee-like 1 (Drosophila)	FKSG4	
YPEL3	Yippee-like 1 (Drosophila)	FKSG5	
YPEL5	Yippee-like 5 (Drosophila)	CGI-127	
YTHDC1	YTH domain containing 1	YT521, YT521-B	
YTHDC2	YTH domain containing 2	CAHL	
YTHDF2	YTH domain family, member 2	HGRG8, NY-REN-2	
YTHDF3	YTH domain family, member 3		
YWHAB	Tyrosine 3-monooxygenase/tryptophan 5-	RP1-148L22.1, GW128, HEL-S-1, H31, KCIP-1, YWHAA	
YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-	14-3-3E, HEL2, KCIP-1, MDCR, MDS	√
YWHAG	Tyrosine 3-monooxygenase/tryptophan 5-	14-3-3GAMMA, PPP1R170	
YWHAQ	Tyrosine 3-monooxygenase/tryptophan 5-	14-3-3, 1C5, HS1	
YWHAZ	Tyrosine 3-monooxygenase/tryptophan 5- monooxygenase activation protein, zeta	14-3-3-zeta, HEL-S-3, HEL4, KCIP-1, YWHAD	
YY1	YY1 transcription factor	DELTA, INO80S, NF-E1, UCRBP, YIN-YANG-1	
ZADH2	Zinc binding alcohol dehydrogenase domain		
ZAK	Sterile alpha motif and leucine zipper	HCCS4AZK, MLK7, MLT, MLTK, MRK, mlklak, pk	
ZAN	Zonadhesin		
ZBED1	Zinc finger, BED-type containing 1	ALTE, DREF, TRAMP, hDREF	
ZBED2	Zinc finger, BED-type containing 2		
ZBP1	Z-DNA binding protein 1	RP4-718J7.1, C20orf183, DAI, DLM-1, DLM1	
ZBTB10	Zinc finger and BTB domain containing 10	RINZF	
ZBTB11	Zinc finger and BTB domain containing 11	9230110G02Rik, ZNF-U69274	
ZBTB16	Zinc finger and BTB domain containing 16	PLZF, ZNF145	
ZBTB2	Zinc finger and BTB domain containing 2	ZNF437	
ZBTB24	Zinc finger and BTB domain containing 24	BIF1, ICF2, PATZ2, ZNF450	
ZBTB33	Zinc finger and BTB domain containing 33	ZNF-kaiso, ZNF348	

ZBTB34	Zinc finger and BTB domain containing 34	RP11-106H5.1, ZNF918	
ZBTB38	Zinc finger and BTB domain containing 38	CIBZ, PPP1R171, ZNF921	
ZBTB39	Zinc finger and BTB domain containing 39	ZNF922	
ZBTB4	Zinc finger and BTB domain containing 4	KAISO-L1, ZNF903	
ZBTB40	Zinc finger and BTB domain containing40	ZNF923	
ZBTB41	Zinc finger and BTB domain containing41	RP11-469L3.1, FRBZ1, ZNF924	
ZBTB42	Zinc finger and BTB domain containing42	ZNF925	
ZBTB43	Zinc finger and BTB domain containing43	RP11-489N22.2, ZBTB22B, ZNF-X, ZNF297B	
ZBTB44	Zinc finger and BTB domain containing44	BTBD15, HSPC063, ZNF851	
ZBTB49	Zinc finger and BTB domain containing49	ZNF509	
ZBTB7B	Zinc finger and BTB domain containing 7B	RP11-307C12.5, THPOK, ZBTB15, ZFP-67, ZFP67, ZNF857B, c-KROX, hcKROX	
ZBTB8B	Zinc finger and BTB domain containing 8B	RP1-27O5.1, ZNF916B	
ZBTB9	Zinc finger and BTB domain containing 9	DASS-97D12.7, ZNF919	
ZC3H11A	Zinc finger CCCH-type containing 11A	ZC3HDC11A	
ZC3H12B	Zinc finger CCCH-type containing 12B	RP3-475B7.1, CXorf32, MCPIP2	
ZC3H12C	Zinc finger CCCH-type containing 12C	MCPIP3	
ZC3H13	Zinc finger CCCH-type containing 13	RP11-71J12.1, KIAA0853	
ZC3H6	Zinc finger CCCH-type containing 6	ZC3HDC6	
ZC3H7B	Zinc finger CCCH-type containing 7B	RoXaN	
ZC3HAV1	Zinc finger CCCH-type, antiviral 1	PRO1077, ARTD13, FLB6421, PARP13, ZAP, ZC3H2, ZC3HDC2	
ZCCHC10	Zinc finger, CCHC domain containing 10		
ZCCHC11	Zinc finger, CCHC domain containing 11	PAPD3, TUT4	
ZCCHC14	Zinc finger, CCHC domain containing 14	BDG-29, BDG29	
ZCCHC16	Zinc finger, CCHC domain containing 16	Mar4, Mart4	
ZCCHC18	Zinc finger, CCHC domain containing 18	PNMA7B, SIZN2	
ZCCHC2	Zinc finger, CCHC domain containing 2	C18orf49	
ZCCHC24	Zinc finger, CCHC domain containing 24	RP11-342M3.6, C10orf56, Z3CXXC8	
ZCCHC3	Zinc finger, CCHC domain containing 3	C20orf99	
ZCWPW2	Zinc finger, CW type with PWWP domain 2	ZCW2	
ZDBF2	Zinc finger, DBF-type containing 2		
ZDHHC14	Zinc finger, DHHC-type containing 14	RP3-481C9.1, NEW1CP	
ZDHHC15	Zinc finger, DHHC-type containing 15	UNQ1969, MRX91	
ZDHHC17	Zinc finger, DHHC-type containing 17	HSPC294, HIP14, HIP3, HYPH	

ZDHHC18	Zinc finger, DHHC-type containing 18	RP1-50O24.3, DHHC-18, DHHC18	
ZDHHC2	Zinc finger, DHHC-type containing 2	DHHC2, ZNF372	
ZDHHC21	Zinc finger, DHHC-type containing 21	9130404H11Rik, DHHC-21, DHHC21, DNZ1, HSPC097	
ZDHHC22	Zinc finger, DHHC-type containing 22	hCG_1643587, C14orf59	
ZDHHC23	Zinc finger, DHHC-type containing 23	NIDD	
ZDHHC3	Zinc finger, DHHC-type containing 3	HSD49, DHHC-3, GODZ, ZNF373	
ZDHHC4	Zinc finger, DHHC-type containing 4	DC1, ZNF374	
ZDHHC7	Zinc finger, DHHC-type containing 7	DHHC7, SERZ-B, SERZ1, ZNF370	
ZEB1	Zinc finger E-box binding homeobox 1	RP11-472N13.4, AREB6, BZP, DELTAEF1, FECD6, NIL2A, PPCD3, TCF8, ZFHEP, ZFHX1A	
ZEB2	Zinc finger E-box binding homeobox 2	HRIHFB2411, HSPC082, SIP-1, SIP1, SMADIP1, ZFHX1B	
ZFAND2A	Zinc finger, AN1-type domain 2A	AIRAP	
ZFAND5	Zinc finger, AN1-type domain 5	RP11-63P12.8, ZA20D2A, ZNF216, ZFAND5	
ZFAND6	Zinc finger, AN1-type domain 6	HT032, AWP1, ZA20D3, ZFAND5B	
ZFAT	Zinc finger and AT hook domain containing	AITD31, ZNF406, ZFAT	
ZFATAS			
ZFC3H1	Zinc finger, C3H1-type containing	CCDC131, PSRC2	
ZFHX3	Zinc finger homeobox 3	ATBF1, ATBT, ZNF927	
ZFHX4	Zinc finger homeobox 4	ZFH4, ZHF4	
ZFP1	ZFP1 zinc finger protein	ZNF475	
ZFP106			
ZFP112			
ZFP14	ZFP14 zinc finger protein	ZNF531	
ZFP161			
ZFP2	ZFP2 zinc finger protein	ZNF751	
ZFP28	ZFP28 zinc finger protein	mkr5	
ZFP30	ZFP30 zinc finger protein	ZNF745	
ZFP36L1	ZFP36 ring finger protein-like 1	BRF1, Berg36, ERF-1, ERF1, RNF162B, TIS11B, cMG1	
ZFP36L2	ZFP36 ring finger protein-like 2	BRF2, ERF-2, ERF2, RNF162C, TIS11D	
ZFP62	ZFP62 zinc finger protein	ZET, ZNF755	
ZFP82	ZFP82 zinc finger protein	ZNF545	
ZFP90	ZFP90 zinc finger protein	FIK, NK10, ZNF756	
ZFP91	ZFP91 zinc finger protein	FKSG11, DMS-8, DSM-8, PZF, ZFP-91, ZNF757	
ZFR	Zinc finger RNA binding protein	SPG711, ZFR	

ZFR2	Zinc finger RNA binding protein 2	KIAA1086	
ZFX	Zinc finger protein, X-linked	ZNF926	
ZFY	Zinc finger protein, Y-linked	ZNF911	
ZFYVE16	Zinc finger, FYVE domain containing 16	PPP1R69	
ZFYVE20	Zinc finger, FYVE domain containing 20	Rabenosyn-5	
ZFYVE26	Zinc finger, FYVE domain containing 26	FYVE-CENT, SPG15	
ZFYVE27	Zinc finger, FYVE domain containing 27	RP11-459F3.2, PROTRUDIN, SPG33	
ZFYVE28	Zinc finger, FYVE domain containing 28	LST2, LYST2	
ZIC2	Zic family member 2	HPE5	
ZIC3	Zic family member 3	RP1-137H15.3, HTX, HTX1, VACTERLX, ZNF203	
ZIC4	Zic family member 4		
ZIC5	Zic family member 5		
ZIK1	Zinc finger protein interacting with K protein 1	ZNF762	
ZKSCAN1	Zinc finger with KRAB and SCAN domains 1	9130423L19Rik, KOX18, PHZ-37, ZNF139, ZNF36, ZSCAN32	
ZKSCAN2	Zinc finger with KRAB and SCAN domains 2	ZNF694, ZSCAN31, ZSCAN34	
ZKSCAN3	Zinc finger with KRAB and SCAN domains 3	ZF47, ZFP306, ZNF306, ZNF369, ZSCAN13, ZSCAN33, Zfp47, dJ874G20.1, dJ874G20.1, zfp-47	
ZMAT4	Zinc finger, matrin-type 4		
ZMIZ1	Zinc finger, MIZ-type containing 1	RP11-319K18.1, MIZ, RAI17, TRAFIP10, ZIMP10, hZIMP10	
ZMIZ2	Zinc finger, MIZ-type containing 2	HRIHFB2007, NET27, TRAFIP20, ZIMP7, hZIMP7	
ZMPSTE24	Zinc metallopeptidase STE24	FACE-1, FACE1, HGPS, PRO1, STE24, Ste24p	
ZMYM1	Zinc finger, MYM-type 1	RP11-181E22.4, MYM	
ZMYM2	Zinc finger, MYM-type 2	RP11-264J4.7, FIM, MYM, RAMP, SCLL, ZNF198	
ZMYM4	Zinc finger, MYM-type 4	RP11-181E22.3, CDIR, MYM, ZNF198L3, ZNF262	
ZMYM5	Znc finger, MYM-type 5	RP11-523H24.6, HSPC050, MYM, ZNF198L1, ZNF237	
ZMYM6	Zinc finger, MYM-type 6	RP11-244H3.3, Buster2, MYM, ZBED7, ZNF198L4, ZNF258	
ZMYND11	Zinc finger, MYND-type containing 11	RP11-486H9.1, BRAM1, BS69	
ZMYND8	Zinc finger, MYND-type containing 8	RP5-890O15.1, PRKCBP1, PRO2893, RACK7	
ZNF10	Zinc finger protein 10	KOX1	
ZNF100	Zinc finger protein 100		
ZNF107	Zinc finger protein 107	Y8; ZFD25; ZNF588; smap-7	
ZNF117	Zinc finger protein 117	HPF9; H-plk	
ZNF12	Zinc finger protein 12	KOX3; HZF11; GIOT-3; ZNF325	
ZNF121	Zinc finger protein 121	ZHC32; ZNF20; D19S204	

ZNF124	Zinc finger protein 124	ZK7; HZF16; HZF-16	
ZNF131	Zinc finger protein 131	ZBTB35; pHZ-10	
ZNF133	Zinc finger protein 133	ZNF150; pHZ-13; pHZ-66	
ZNF136	Zinc finger protein 136	pHZ-20	
ZNF137	Zinc finger protein 137, pseudogene	ZNF137; pHZ-30	
ZNF138	Zinc finger protein 138	pHZ-32	
ZNF140	Zinc finger protein 140	pHZ-39	
ZNF141	Zinc finger protein 141	D4S90; PAPA6; pHZ-44	
ZNF148	Zinc finger protein 148	BERF-1; BFCOL1; ZBP-89; ZFP148; pHZ-52; HT-BETA	
ZNF154	Zinc finger protein 154	pHZ-92	
ZNF160	Zinc finger protein 160	F11; HZF5; KR18; HKr18	
ZNF167	Zinc finger protein 167	ZFP; FLJ12738	
ZNF17	Zinc finger protein 17	HPF3; KOX10	
ZNF175	Zinc finger protein 175	OTK18	
ZNF180	Zinc finger protein 180	HHZ168	
ZNF181	Zinc finger protein 181	HHZ181	
ZNF182	Zinc finger protein 182	KOX14; ZNF21; HHZ150; Zfp182	
ZNF184	Zinc finger protein 184		
ZNF187	Zinc finger protein 187		
ZNF19	Zinc finger protein 19	KOX12	
ZNF192	zinc finger protein 192		
ZNF197	Zinc finger protein 197	P18; VHLaK; ZNF20; ZNF166; ZKSCAN9; ZSCAN41; D3S1262E	
ZNF200	Zinc finger protein 200		
ZNF204P	Zinc finger protein 204, pseudogene	ZNF204; ZNF315P; b24o18.1; ZNF184-Lp	
ZNF207	Zinc finger protein 207	BuGZ	
ZNF208	Zinc finger protein 208	PMIDP; ZNF95	
ZNF212	Zinc finger protein 212	ZNF182; ZNFC150; C2H2-150	
ZNF217	Zinc finger protein 217	ZABC1	
ZNF223	Zinc finger protein 223		
ZNF226	Zinc finger protein 226		
ZNF229	Zinc finger protein 229		
ZNF230	Zinc finger protein 230	FDZF2	
ZNF234	Zinc finger protein 234	HZF4; ZNF269	

ZNF236	Zinc finger protein 236	ZNF236A; ZNF236B	
ZNF238	Zinc finger protein 238		
ZNF24	Zinc finger protein 24	KOX17; RSG-A; ZNF191; ZSCAN3; Zfp191	
ZNF248	Zinc finger protein 248	bA162G10.3	
ZNF25	Zinc finger protein 25	Zfp9; KOX19	
ZNF250	Zinc finger protein 250	ZFP647; ZNF647	
ZNF252	Zinc finger protein 252	BC3; ZNF347	
ZNF253	Zinc finger protein 253	BMZF1; BMZF-1; ZNF411	
ZNF254	Zinc finger protein 254	BMZF-5; ZNF539; ZNF91L; HD-ZNF1	
ZNF257	Zinc finger protein 257	BMZF4; BMZF-4	
ZNF26	Zinc finger protein 26	KOX20; HEL-179	
ZNF260	Zinc finger protein 260	PEX1; OZRF1; ZFP260	
ZNF263	Zinc finger protein 263	FPM315; ZSCAN44; ZKSCAN12	
ZNF264	Zinc finger protein 264		
ZNF266	Zinc finger protein 266	HZF1	
ZNF267	Zinc finger protein 267	HZF2	
ZNF268	Zinc finger protein 268	HZF3	
ZNF271	Zinc finger protein 271	HZF7; ZNFEB	
ZNF273	Zinc finger protein 273	HZF9	
ZNF274	Zinc finger protein 274	ZF2; HFB101; ZSCAN51; ZKSCAN19	
ZNF276	Zinc finger protein 276	ZADT; CENPZ; CENP-Z; ZFP276; ZNF477	
ZNF277	Zinc finger protein 277	NRIF4; ZNF277P	
ZNF28	Zinc finger protein 28	KOX24	
ZNF280B	Zinc finger protein 280B	SUHW2; ZNF279; ZNF632; 5'OY11.1; D87009.C22.3	
ZNF280D	Zinc finger protein 280D	SUHW4; ZNF634	
ZNF281	Zinc finger protein 281	ZBP-99; ZNP-99	
ZNF283	Zinc finger protein 283	HZF19; HZF41	
ZNF284	Zinc finger protein 284	ZNF284L	
ZNF286A	Zinc finger protein 286A	ZNF286	
ZNF286B	Zinc finger protein 286B	ZNF590; ZNF286C; ZNF286L	
ZNF287	Zinc finger protein 287	ZSCAN45; ZKSCAN13	
ZNF292	Zinc finger protein 292	ZN-16; Zn-15; ZFP292; Nbla00365; bA393I2.3	
ZNF295	Zinc finger protein 295		

ZNF302	Zinc finger protein 302	H3D16; M3T154; ZNF327; M3TP154; ZNF135L; ZNF140L	
ZNF317	Zinc finger protein 317		
ZNF319	Zinc finger protein 319	ZFP319	
ZNF320	Zinc finger protein 320	ZFPL	
ZNF321	Zinc finger protein 321		
ZNF323	Zinc finger protein 323		
ZNF326	Zinc finger protein 326	ZIRD; ZAN75; Zfp326; dJ871E2.1	
ZNF329	Zinc finger protein 329		
ZNF333	Zinc finger protein 333		
ZNF337	Zinc finger protein 337		
ZNF33A	Zinc finger protein 33A	KOX2; KOX3; KOX31; NF11A; ZNF11; ZNF33; ZZARK; ZNF11A	
ZNF33B	Zinc finger protein 33B	KOX2; KOX31; ZNF11B	
ZNF341	Zinc finger protein 341		
ZNF345	Zinc finger protein 345	HZF10	
ZNF35	Zinc finger protein 35	HF10; HF.10; Zfp105	
ZNF350	Zinc finger protein 350	ZFQR; ZBRK1	
ZNF367	Zinc finger protein 367	AFF29; ZFF29; CDC14B	
ZNF37A	Zinc finger protein 37A	KOX21; ZNF37	
ZNF382	Zinc finger protein 382	KS1	
ZNF385B	Zinc finger protein 385B	ZNF533	
ZNF395	Zinc finger protein 395	PBF; PRF1; HDBP2; PRF-1; HDBP-2; HDRF-2; SI-1-8-14	
ZNF396	Zinc finger protein 396	ZSCAN14	
ZNF397	Zinc finger protein 397	ZNF47; ZSCAN15	
ZNF397OS	Zinc finger and SCAN domain containing 30	ZNF917; ZNF-WYM; ZNF397OS	
ZNF398	Zinc finger protein 398	P51; P71; ZER6	
ZNF410	Zinc finger protein 410	APA1; APA-1	
ZNF416	Zinc finger protein 416		
ZNF417	Zinc finger protein 417		
ZNF418	Zinc finger protein 418		
ZNF419	Zinc finger protein 419	ZNF419A	
ZNF420	Zinc finger protein 420	APAK	
ZNF425	Zinc finger protein 425		
ZNF43	Zinc finger protein 43	HTF6; KOX27; ZNF39L1	

ZNF430	Zinc finger protein 430		
ZNF436	Zinc finger protein 436	ZNF; Zfp46	
ZNF439	Zinc finger protein 439		
ZNF44	Zinc finger protein 44	ZNF; KOX7; ZNF55; ZNF58; GIOT-2; ZNF504	
ZNF440	Zinc finger protein 440		
ZNF441	Zinc finger protein 441		
ZNF443	Zinc finger protein 443	ZK1	
ZNF449	Zinc finger protein 449	ZSCAN19	
ZNF454	Zinc finger protein 454		
ZNF461	Zinc finger protein 461	GIOT1; GIOT-1	
ZNF468	Zinc finger protein 468		
ZNF469	Zinc finger protein 469	BCS; BCS1	
ZNF470	Zinc finger protein 470	CZF-1	
ZNF471	Zinc finger protein 471	ERP1; Z1971	
ZNF479	Zinc finger protein 479	KR19	
ZNF480	Zinc finger protein 480		
ZNF483	Zinc finger protein 483	ZSCAN48; ZKSCAN16	
ZNF487	Zinc finger protein 487	KRBO1; ZNF487P	
ZNF490	Zinc finger protein 490		
ZNF491	Zinc finger protein 491		
ZNF492	Zinc finger protein 492	ZNF115	
ZNF493	Zinc finger protein 493		
ZNF498	Zinc finger protein 498		
ZNF500	Zinc finger protein 500		
ZNF501	Zinc finger protein 501	ZNF; ZNF52	
ZNF502	Zinc finger protein 502		
ZNF506	Zinc finger protein 506		
ZNF507	Zinc finger protein 507		
ZNF510	Zinc finger protein 510		
ZNF511	Zinc finger protein 511		
ZNF512	Zinc finger protein 512		
ZNF512B	Zinc finger protein 512B	GM632	
ZNF514	Zinc finger protein 514		

ZNF516	Zinc finger protein 516	HsT287	
ZNF518B	Zinc finger protein 518B		
ZNF519	Zinc finger protein 51	HsT2362	
ZNF521	Zinc finger protein 521	EHZF; Evi3	√
ZNF525	Zinc finger protein 525		
ZNF527	Zinc finger protein 527		
ZNF528	Zinc finger protein 528		
ZNF529	Zinc finger protein 529		
ZNF530	Zinc finger protein 530		
ZNF536	Zinc finger protein 536		
ZNF540	Zinc finger protein 540	Nbla10512	
ZNF542	Zinc finger protein 542, pseudogene	ZNF542	
ZNF543	Znc finger protein 543		
ZNF544	Znc finger protein 544		
ZNF547	Zinc finger protein 547		
ZNF549	Zinc finger protein 549		
ZNF550	Zinc finger protein 550		
ZNF551	Zinc finger protein 551		
ZNF555	Zinc finger protein 555		
ZNF557	Zinc finger protein 557		
ZNF558	Zinc finger protein 558		
ZNF559	Zinc finger protein 559	NBLA00121	
ZNF560	Zinc finger protein 560		
ZNF562	Zinc finger protein 562		
ZNF563	Zinc finger protein 563		
ZNF564	Zinc finger protein 564		
ZNF566	Zinc finger protein 566		
ZNF568	Zinc finger protein 568		
ZNF569	Zinc finger protein 569	ZNF; ZAP1	
ZNF571	Zinc finger protein 571	HSPC059	
ZNF572	Zinc finger protein 572		
ZNF573	Zinc finger protein 573		
ZNF575	Zinc finger protein 575		

ZNF577	Zinc finger protein 577		
ZNF582	Zinc finger protein 582		
ZNF584	Zinc finger protein 584		
ZNF585A	Zinc finger protein 585A		
ZNF585B	Zinc finger protein 585B	SZFP41	
ZNF586	Zinc finger protein 586		
ZNF587	Zinc finger protein 587	ZF6	
ZNF589	Zinc finger protein 589	SZF1	
ZNF592	Zinc finger protein 592	CAMOS; SCAR5	
ZNF594	Zinc finger protein 594		
ZNF595	Zinc finger protein 595		
ZNF596	Zinc finger protein 596		
ZNF598	Zinc finger protein 598		
ZNF605	Zinc finger protein 605		
ZNF606	Zinc finger protein 606	ZNF328	
ZNF607	Zinc finger protein 607		
ZNF608	Zinc finger protein 608	NY-REN-36	
ZNF609	Zinc finger protein 609		
ZNF610	Zinc finger protein 610		
ZNF615	Zinc finger protein 615		
ZNF618	Zinc finger protein 618	NEDD10; FP13169	
ZNF621	Zinc finger protein 621		
ZNF623	Zinc finger protein 623		
ZNF624	Zinc finger protein 624		
ZNF626	Zinc finger protein 626		
ZNF638	Zinc finger protein 638	ZFML; NP220; Zfp638	
ZNF639	Zinc finger protein 639	ZASC1; ANC-2H01; ANC_2H01; 6230400O18Rik	
ZNF644	Zinc finger protein 644	NatF; MYP21; ZEP-2; BM-005	
ZNF649	Zinc finger protein 649		
ZNF652	Zinc finger protein 652		
ZNF654	Zinc finger protein 654		
ZNF655	Zinc finger protein 655	VIK; VIK-1	
ZNF664	Zinc finger protein 664	ZFOC1; ZNF176	

ZNF665	Zinc finger protein 665	ZFP160L	
ZNF667	Zinc finger protein 667	MIPU1	
ZNF670	Zinc finger protein 670		
ZNF673	Zinc finger family member 673		
ZNF674	Zinc finger protein 674	MRX92; ZNF673B	
ZNF675	Zinc finger protein 675	TIZ; TBZF	
ZNF676	Zinc finger protein 676		
ZNF677	Zinc finger protein 677		
ZNF678	Zinc finger protein 678		
ZNF680	Zinc finger protein 680		
ZNF681	Zinc finger protein 681		
ZNF682	Zinc finger protein 682	BC39498_3	
ZNF697	Zinc finger protein 697		
ZNF699	Zinc finger protein 699	hang	
ZNF700	Zinc finger protein 700		
ZNF701	Zinc finger protein 701		
ZNF704	Zinc finger protein 704	Gig1	
ZNF705A	Zinc finger protein 705A		
ZNF705D	Zinc finger protein 705D	ZNF705C	
ZNF708	Zinc finger protein 708	KOX8; ZNF15; ZNF15L1	
ZNF709	Zinc finger protein 709		
ZNF71	Zinc finger protein 71	EZFIT	
ZNF714	Zinc finger protein 714		
ZNF716	Zinc finger protein 716		
ZNF718	Zinc finger protein 718		
ZNF720	Zinc finger protein 720		
ZNF721	Zinc finger protein 721		
ZNF724P	Zinc finger protein 724, pseudogene		
ZNF726	Zinc finger protein 726		
ZNF730	Zinc finger protein 730		
ZNF732	Zinc finger protein 732		
ZNF737	Zinc finger protein 737	ZNF102	
ZNF738	Zinc finger protein 738		

ZNF74	Zinc finger protein 74	COS52; hZNF7; ZFP520; ZNF520	
ZNF747	Zinc finger protein 747		
ZNF750	Zinc finger protein 750	ZFP750	
ZNF75D	Zinc finger protein 75D	D8C6; ZNF75; ZNF82; ZSCAN28; ZKSCAN24	
ZNF76	zinc finger protein 76	ZNF523; Zfp523; D6S229E	
ZNF761	Zinc finger protein 761	ZNF468	
ZNF763	Zinc finger protein 763	ZNF; ZNF440L	
ZNF765	Zinc finger protein 765		
ZNF766	Zinc finger protein 766		
ZNF770	Zinc finger protein 770	PRO1914	
ZNF776	Zinc finger protein 776		
ZNF778	Zinc finger protein 778		
ZNF780A	Zinc finger protein 780A	ZNF780	
ZNF780B	Zinc finger protein 780B	ZNF779	
ZNF781	Zinc finger protein 781		
ZNF783	Zinc finger family member 783		
ZNF788	Zinc finger family member 788		
ZNF790	Zinc finger protein 790		
ZNF792	Zinc finger protein 792		
ZNF793	Zinc finger protein 793		
ZNF799	Zinc finger protein 799	HIT-40; ZNF842	
ZNF80	Zinc finger protein 80	pT17	
ZNF800	Zinc finger protein 800		
ZNF805	Zinc finger protein 805		
ZNF806	Zinc finger protein 806		
ZNF808	Zinc finger protein 808		
ZNF81	Zinc finger protein 81	HFZ20; MRX45; dJ54B20.6	
ZNF814	Zinc finger protein 814		
ZNF815	Zinc finger protein 815, pseudogene	ZNF815	
ZNF823	Zinc finger protein 823	HSZFP36	
ZNF826	Zinc finger protein 826, pseudogene	ZNF826	
ZNF83	Zinc finger protein 83	HPF1; ZNF816B	
ZNF830	Zinc finger protein 830	OMCG1; CCDC16	

ZNF831	Zinc finger protein 831	C20orf174; dJ492J12.1	
ZNF833	Zinc finger protein 833, pseudogene	ZNF833	
ZNF84	Zinc finger protein 84	HPF2	
ZNF844	Zinc finger protein 844		
ZNF845	Zinc finger protein 845		
ZNF85	Zinc finger protein 85	HPF4; HTF1	
ZNF862	Zinc finger protein 862		
ZNF876P	Zinc finger protein 876, pseudogene		
ZNF879	Zinc finger protein 879	DKFZp686E2433	
ZNF90	Zinc finger protein 90	HTF9	
ZNF91	Zinc finger protein 91	HPF7; HTF10	
ZNF92	Zinc finger protein 92	TF12; HPF12; HTF12; HEL-203	
ZNF93	Zinc finger protein 93	TF34; HPF34; HTF34; ZNF505	
ZNF98	Zinc finger protein 98	F7175; ZNF739	
ZNHIT1	Zinc finger, HIT-type containing 1	CG1I; ZNFN4A1	
ZNRD1	Zinc ribbon domain containing 1	TEX6; ZR14; Rpa12; hZR14; HTEX-6; tctex-6	
ZNRF2	Zinc and ring finger 2	zinc and ring finger 2	
ZNRF3	Zinc and ring finger 3	RNF203; BK747E2.3	
ZNRF4	Zinc and ring finger 4	spzn; RNF204; Ssrzf1; SPERIZIN	
ZRANB1	Zinc finger, RAN-binding domain containing 1	RP11-298J20.4, TRABID	
ZRANB2	Zinc finger, RAN-binding domain containing 2	ZIS; ZIS1; ZIS2; ZNF265	
ZRANB3	Zinc finger, RAN-binding domain containing 3	AH2; 4933425L19Rik	
ZSCAN10	Zinc finger and SCAN domain containing 10	Zfp206; Znf206; BC068284; Zkscan10	
ZSCAN12	Zinc finger and SCAN domain containing 12	Zfp96; FPM315; mKIAA0426; 2510038J07Rik	
ZSCAN12P1	Zinc finger and SCAN domain containing 12, pseudogene 1	ZNF96L1; ZNF96P1; ZNF187P1; ZNF505P1; ZSCAN12L1; dJ212I6.7	
ZSCAN18	Zinc finger and SCAN domain containing 18	ZNF447	
ZSCAN20	Zinc finger and SCAN domain containing 20	KOX29; ZNF31; ZFP-31; ZNF360	
ZSCAN22	Zinc finger and SCAN domain containing 22	HKR2; ZNF50	
ZSCAN23	Zinc finger and SCAN domain containing 23	ZNF390; ZNF453	
ZSWIM1	Zinc finger SWIM-type containing 1	AI850991	
ZSWIM2	Zinc finger, SWIM-type containing 2	MEX	
ZSWIM5	Zinc finger, SWIM-type containing 5	AI503093	
ZSWIM7	Zinc finger, SWIM-type containing 7	SWS1	

ZWILCH	Zwilch kinetochore protein	KNTC1AP	
ZWINT	ZW10 interacting kinetochore protein	ZWINT1	
ZXDB	Zinc finger, X-linked, duplicated B	ZNF905	
ZXDC	ZXD family zinc finger C	ZXDL	
ZYG11B	Zyg-11 family member B, cell cycle regulator	ZYG11	
ZZEF1	Zinc finger, ZZ-type with EF-hand domain 1	ZZZ4	
ZZZ3	Zinc finger, ZZ-type containing 3	ATAC1	

Supplementary Table 5. Predicted targets of hsa-miR-181a-5p by miRDB.

Gene symbol	Full name	Target score	Cancer-related gene
AAK1	AP2 associated kinase 1	67	
AASDHPPT	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	69	
ABHD13	Abhydrolase domain containing 13	64	
ABI1	Abl-interactor 1	53	√
ABI3BP	ABI family, member 3 (NESH) binding protein	78	
ACP1	Acid phosphatase 1, soluble	66	
ACSL1	Acyl-CoA synthetase long-chain family member 1	74	
ACSM2B	Acyl-CoA synthetase medium-chain family member 2B	61	
ACVR2A	Activin A receptor, type IIA	90	
ACVR2B	Activin A receptor, type IIB	96	
ACYP1	Acylphosphatase 1, erythrocyte (common) type	70	
ADAM11	ADAM metallopeptidase domain 11	62	
ADAM28	ADAM metallopeptidase domain 28	72	
ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18	59	
ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5	64	
ADAMTSL1	ADAMTS-like 1	71	
ADARB1	Adenosine deaminase, RNA-specific, B1	63	
ADARB2	Adenosine deaminase, RNA-specific, B2	51	
ADCK3	aarF domain containing kinase 3	71	
ADM	Adrenomedullin	57	
ADO	2-Aminoethanethiol (cysteamine) dioxygenase	70	
ADRBK1	Adrenergic, beta, receptor kinase 1	79	
AFF2	AF4/FMR2 family, member 2	60	
AFG3L2	AFG3 ATPase family gene 3-like 2 (*S. cerevisiae*)	91	
AFTPH	Aftiphilin	61	
AGK	Acylglycerol kinase	52	
AGTR1	Angiotensin II receptor, type 1	53	
AHCTF1	AT hook containing transcription factor 1	70	

AIM1L	Absent in melanoma 1-like	55	
AKAP5	A kinase (PRKA) anchor protein 5	87	
AKAP6	A kinase (PRKA) anchor protein 6	73	
AKAP7	A kinase (PRKA) anchor protein 7	83	
AKD1	Adenylate kinase domain containing 1	61	
AKT3	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	89	
ALDH9A1	Aldehyde dehydrogenase 9 family, member A1	52	
ALG1	Asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (*S. cerevisiae*)	57	
ALG11	Asparagine-linked glycosylation 11, alpha-1,2-mannosyltransferase homolog (yeast)	62	
ALG9	Asparagine-linked glycosylation 9, alpha-1,2-mannosyltransferase homolog (*S. cerevisiae*)	63	
ANAPC16	Anaphase promoting complex subunit 16	77	
ANKRD13C	Ankyrin repeat domain 13C	98	
ANKRD33B	Ankyrin repeat domain 33B	52	
ANKRD34C	Ankyrin repeat domain 34C	51	
ANKRD43	Ankyrin repeat domain 43	60	
ANKRD44	Ankyrin repeat domain 44	50	
ANO1	Anoctamin 1, calcium activated chloride channel	70	
ANTXR2	Anthrax toxin receptor 2	53	
AP1G1	Adaptor-related protein complex 1, gamma 1 subunit	67	
AP1S3	Adaptor-related protein complex 1, sigma 3 subunit	61	
ARF6	ADP-ribosylation factor 6	69	
ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	68	
ARHGAP26	Rho GTPase activating protein 26	79	
ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3	97	
ARHGEF38	Rho guanine nucleotide exchange factor (GEF) 38	56	
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	50	
ARL2BP	ADP-ribosylation factor-like 2 binding protein	51	
ARL5A	ADP-ribosylation factor-like 5A	68	
ARL5B	ADP-ribosylation factor-like 5B	58	
ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5	61	
ARMC8	Armadillo repeat containing 8	60	
ARPC1A	Actin related protein 2/3 complex, subunit 1A, 41 kDa	55	
ARRDC4	Arrestin domain containing 4	61	

ARSJ	Arylsulfatase family, member J	87	
ATF1	Activating transcription factor 1	76	√
ATG5	ATG5 autophagy related 5 homolog (*S. cerevisiae*)	73	
ATM	Ataxia telangiectasia mutated	91	√
ATP11C	ATPase, class VI, type 11C	83	
ATP1B1	ATPase, Na^+/K^+ transporting, beta 1 polypeptide	56	
ATP1B2	ATPase, Na^+/K^+ transporting, β2 polypeptide	50	
ATP2A2	ATPase, Ca^{++} transporting, cardiac muscle, slow twitch 2	88	
ATP2B1	ATPase, Ca^{++} transporting, plasma membrane 1	91	
ATP2B2	ATPase, Ca^{++} transporting, plasma membrane 2	62	
ATP6V1C2	ATPase, H^+ transporting, lysosomal 42kDa, V1 subunit C2	61	
ATRN	Attractin	50	
ATXN1	Ataxin 1	66	
ATXN3	Ataxin 3	86	
ATXN7	Ataxin 7	52	
B3GNT5	UDP-GlcNAc:βGal β-1,3-*N* -acetylglucosaminyltransferase 5	58	
B4GALT1	UDP-Gal:βGlcNAc β1,4- galactosyltransferase, polypeptide 1	53	
BAG2	BCL2-associated athanogene 2	76	
BAG4	BCL2-associated athanogene 4	81	
BAI3	Brain-specific angiogenesis inhibitor 3	88	
BAZ2B	Bromodomain adjacent to zinc finger domain, 2B	82	
BBS7	Bardet-Biedl syndrome 7	71	
BBS9	Bardet-Biedl syndrome 9	63	
BCHE	Butyrylcholinesterase	59	
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	52	√
BEND3	BEN domain containing 3	87	
BHLHE40	Basic helix-loop-helix family, member e40	80	
BIRC6	Baculoviral IAP repeat containing 6	97	
BMP2K	BMP2 inducible kinase	62	
BOLL	Bol, boule-like (Drosophila)	71	
BRAP	BRCA1 associated protein	92	

BRD1	Bromodomain containing 1	82	
BRWD1	Bromodomain and WD repeat domain containing 1	100	
BTBD3	BTB (POZ) domain containing 3	84	
C11orf41	Chromosome 11 open reading frame 41	63	
C11orf70	Chromosome 11 open reading frame 70	73	
C11orf87	Chromosome 11 open reading frame 87	51	
C12orf29	Chromosome 12 open reading frame 29	56	
C14orf129	Chromosome 14 open reading frame 129	94	
C14orf135	Chromosome 14 open reading frame 135	59	
C14orf28	Chromosome 14 open reading frame 28	56	
C14orf43	Chromosome 14 open reading frame 43	56	
C15orf2	Chromosome 15 open reading frame 2	53	
C15orf29	Chromosome 15 open reading frame 29	77	
C15orf48	Chromosome 15 open reading frame 48	50	
C16orf87	Chromosome 16 open reading frame 87	78	
C16orf95	Chromosome 16 open reading frame 95	58	
C17orf39	Chromosome 17 open reading frame 39	52	
C19orf12	Chromosome 19 open reading frame 12	82	
C1orf109	Chromosome 1 open reading frame 109	60	
C1orf96	Chromosome 1 open reading frame 96	65	
C20orf29	Chromosome 20 open reading frame 29	50	
C2orf54	Chromosome 2 open reading frame 54	57	
C2orf69	Chromosome 2 open reading frame 69	72	
C3orf43	Chromosome 3 open reading frame 43	58	
C3orf62	Chromosome 3 open reading frame 62	75	
C3orf80	Chromosome 3 open reading frame 80	50	
C4orf40	Chromosome 4 open reading frame 40	81	
C5orf41	Chromosome 5 open reading frame 41	97	
C5orf47	Chromosome 5 open reading frame 47	83	
C6orf62	Chromosome 6 open reading frame 62	68	
C6orf89	Chromosome 6 open reading frame 89	72	
C7orf41	Chromosome 7 open reading frame 41	75	
C8orf59	Chromosome 8 open reading frame 59	61	

CA5B	Carbonic anhydrase VB, mitochondrial	56	
CACNA2D4	Calcium channel, voltage-dependent, α2/δ subunit 4	51	
CALB1	Calbindin 1, 28 kDa	71	
CALCR	Calcitonin receptor	72	
CALCRL	Calcitonin receptor-like	52	
CALM1	Calmodulin 1 (phosphorylase kinase, δ)	54	
CAMK2D	Calcium/calmodulin-dependent protein kinase Iiδ	85	
CAPRIN1	Cell cycle associated protein 1	73	
CAPRIN2	Caprin family member 2	68	
CARD8	Caspase recruitment domain family, member 8	77	
CASK	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)	60	
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	60	√
CBLL1	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1	69	
CBX4	Chromobox homolog 4	54	
CBX7	Chromobox homolog 7	84	
CCAR1	Cell division cycle and apoptosis regulator 1	80	
CCDC117	Coiled-coil domain containing 117	73	
CCDC14	Coiled-coil domain containing 14	87	
CCDC144NL	Coiled-coil domain containing 144 family, N-terminal like	54	
CCDC25	Coiled-coil domain containing 25	65	
CCDC42	Coiled-coil domain containing 42	60	
CCDC62	Coiled-coil domain containing 62	51	
CCDC75	Coiled-coil domain containing 75	59	
CCDC88C	Coiled-coil domain containing 88C	52	
CCNB1	Cyclin B1	70	
CCNDBP1	Cyclin D-type binding-protein 1	86	
CCNG1	Cyclin G1	60	
CCNJ	Cyclin J	77	
CCNK	Cyclin K	66	
CCT8L2	Chaperonin containing TCP1, subunit 8 (theta)-like 2	50	
CD1E	CD1e molecule	50	
CD302	CD302 molecule	73	
CD4	CD4 molecule	62	

CD48	CD48 molecule	60	
CD69	CD69 molecule	63	
CDC14B	CDC14 cell division cycle 14 homolog B (*S. cerevisiae*)	52	
CDC40	Cell division cycle 40 homolog (*S. cerevisiae*)	65	
CDC42BPA	CDC42 binding protein kinase α (DMPK-like)	67	
CDKN2AIP	CDKN2A interacting protein	52	
CDKN2AIPNL	CDKN2A interacting protein N-terminal like	50	
CDKN3	Cyclin-dependent kinase inhibitor 3	51	
CDON	Cdon homolog (mouse)	79	
CDYL	Chromodomain protein, Y-like	55	
CEBPG	CCAAT/enhancer binding protein (C/EBP), γ	59	
CEP120	Centrosomal protein 120 kDa	64	
CERS3	Ceramide synthase 3	50	
CETN3	Centrin, EF-hand protein, 3	64	
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7	52	
CHD9	Chromodomain helicase DNA binding protein 9	50	
CHMP1B	Charged multivesicular body protein 1B	78	
CHMP2B	Charged multivesicular body protein 2B	81	
CLASP1	Cytoplasmic linker associated protein 1	71	
CLDN8	Claudin 8	72	
CLEC3A	C-type lectin domain family 3, member A	55	
CLIP1	CAP-GLY domain containing linker protein 1	87	
CLMN	Calmin (calponin-like, transmembrane)	98	
CLN8	Ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	52	
CLVS1	Clavesin 1	74	
CNKSR3	CNKSR family member 3	54	
CNNM2	Cyclin M2	68	
CNOT2	CCR4-NOT transcription complex, subunit 2	68	
CNR1	Cannabinoid receptor 1 (brain)	53	
CNTN4	Contactin 4	76	
COL19A1	Collagen, type XIX, alpha 1	54	
COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	68	
COQ2	Coenzyme Q2 homolog, prenyltransferase (yeast)	58	

CPD	Carboxypeptidase D	65	
CPEB4	Cytoplasmic polyadenylation element binding protein 4	68	
CPNE2	Copine II	84	
CPOX	Coproporphyrinogen oxidase	97	
CPSF6	Cleavage and polyadenylation specific factor 6, 68 kDa	69	
CREB1	cAMP responsive element binding protein 1	91	√
CREB5	cAMP responsive element binding protein 5	83	
CREBZF	CREB/ATF bZIP transcription factor	67	
CSF2RB	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	73	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	98	
CTNNA1	Catenin (cadherin-associated protein), α1, 102 kDa	54	
CTTNBP2NL	CTTNBP2 N-terminal like	84	
CTXN2	Cortexin 2	56	
CUL3	Cullin 3	75	
CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, α)	61	
CXCL2	Chemokine (C-X-C motif) ligand 2	61	
CXorf23	Chromosome X open reading frame 23	58	
CYB561D1	Cytochrome b-561 domain containing 1	63	
CYR61	Cysteine-rich, angiogenic inducer, 61	56	
DARS	Aspartyl-tRNA synthetase	71	
DAZAP2	DAZ associated protein 2	69	
DCBLD2	Discoidin, CUB and LCCL domain containing 2	58	
DCLK1	Doublecortin-like kinase 1	71	
DCLK3	Doublecortin-like kinase 3	56	
DCN	Decorin	80	
DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (*S. cerevisiae*)	54	
DDIT4	DNA-damage-inducible transcript 4	53	
DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	52	
DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	98	
DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	83	
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	83	
DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like	58	
DEPTOR	DEP domain containing MTOR-interacting protein	80	

DERL1	Der1-like domain family, member 1	70	
DGKH	Diacylglycerol kinase, eta	51	
DHX29	DEAH (Asp-Glu-Ala-His) box polypeptide 29	61	
DHX57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	58	
DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)	56	
DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	60	
DIRAS3	DIRAS family, GTP-binding RAS-like 3	72	
DLGAP1	Discs, large (Drosophila) homolog-associated protein 1	51	
DLGAP2	Discs, large (Drosophila) homolog-associated protein 2	97	
DMGDH	Dimethylglycine dehydrogenase	65	
DMXL2	Dmx-like 2	50	
DNAH8	Dynein, axonemal, heavy chain 8	63	
DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4	67	
DNAJC13	DnaJ (Hsp40) homolog, subfamily C, member 13	73	
DOCK10	Dedicator of cytokinesis 10	72	
DOCK4	Dedicator of cytokinesis 4	54	
DOCK7	Dedicator of cytokinesis 7	62	
DPY19L1	Dpy-19-like 1 (*C. elegans*)	67	
DPYSL2	Dihydropyrimidinase-like 2	57	
DSC3	Desmocollin 3	79	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2	83	
DYNC2H1	Dynein, cytoplasmic 2, heavy chain 1	55	
DZANK1	Double zinc ribbon and ankyrin repeat domains 1	72	
E2F5	E2F transcription factor 5, p130-binding	87	
E2F7	E2F transcription factor 7	83	
EED	Embryonic ectoderm development	54	
EFHA2	EF-hand domain family, member A2	90	
EHF	Ets homologous factor	69	
EIF2C4	Eukaryotic translation initiation factor 2C, 4	58	
EIF4A2	Eukaryotic translation initiation factor 4A2	86	√
ELAVL2	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B)	58	
ELAVL4	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D)	66	
EMB	Embigin	85	

EN1	Engrailed homeobox 1	55	
EN2	Engrailed homeobox 2	66	
ENDOD1	Endonuclease domain containing 1	51	
ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase 1	78	
ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6 (putative)	54	
EPC2	Enhancer of polycomb homolog 2 (Drosophila)	86	
ERAP2	Endoplasmic reticulum aminopeptidase 2	65	
ERC2	ELKS/RAB6-interacting/CAST family member 2	64	
EREG	Epiregulin	63	
ERI1	Exoribonuclease 1	58	
ERMAP	Erythroblast membrane-associated protein (Scianna blood group)	52	
ESCO2	Establishment of cohesion 1 homolog 2 (S. cerevisiae)	64	
ESM1	Endothelial cell-specific molecule 1	63	
ESR1	Estrogen receptor 1	50	
ETV6	Ets variant 6	81	√
EVI2A	Ecotropic viral integration site 2A	57	
EXD1	Exonuclease 3'-5' domain containing 1	75	
EXOC2	Exocyst complex component 2	50	
EXOC5	Exocyst complex component 5	61	
EYS	Eyes shut homolog (Drosophila)	80	
F11	Coagulation factor XI	53	
F2R	Coagulation factor II (thrombin) receptor	51	
F5	Coagulation factor V (proaccelerin, labile factor)	61	
FAM105B	Family with sequence similarity 105, member B	65	
FAM135A	Family with sequence similarity 135, member A	56	
FAM13B	Family with sequence similarity 13, member B	73	
FAM160A2	Family with sequence similarity 160, member A2	70	
FAM178A	Family with sequence similarity 178, member A	54	
FAM179B	Family with sequence similarity 179, member B	60	
FAM3C	Family with sequence similarity 3, member C	68	
FAM70A	Family with sequence similarity 70, member A	50	
FAM82B	Family with sequence similarity 82, member B	50	
FAN1	FANCD2/FANCI-associated nuclease 1	71	

FAS	Fas (TNF receptor superfamily, member 6)	59	√
FAT3	FAT tumor suppressor homolog 3 (Drosophila)	65	
FBN2	Fibrillin 2	63	
FBXL3	F-box and leucine-rich repeat protein 3	59	
FBXO33	F-box protein 33	71	
FBXO34	F-box protein 34	97	
FBXO45	F-box protein 45	63	
FHAD1	Forkhead-associated (FHA) phosphopeptide binding domain 1	50	
FIGN	Fidgetin	98	
FKBP1A	FK506 binding protein 1A, 12 kDa	76	
FLT1	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	70	
FLVCR1	Feline leukemia virus subgroup C cellular receptor 1	57	
FMNL2	Formin-like 2	76	
FNBP4	Formin binding protein 4	67	
FNDC3B	Fibronectin type III domain containing 3B	81	
FNIP1	Folliculin interacting protein 1	55	
FOXK1	Forkhead box K1	63	
FOXP1	Forkhead box P1	72	√
FRMD7	FERM domain containing 7	56	
FUCA1	Fucosidase, alpha-L- 1, tissue	71	
FUT1	Fucosyltransferase 1 (galactoside 2-α-L-fucosyltransferase, H blood group)	51	
FUT9	Fucosyltransferase 9 (α(1,3) fucosyltransferase)	98	
FZD3	Frizzled family receptor 3	67	
G3BP2	GTPase activating protein (SH3 domain) binding protein 2	80	
GAB1	GRB2-associated binding protein 1	69	
GABRA1	γ-Aminobutyric acid (GABA) A receptor, alpha 1	92	
GABRA4	γ-Aminobutyric acid (GABA) A receptor, alpha 4	58	
GALNT4	UDP-N-acetyl-α-D-galactosamine:polypeptide *N* -acetylgalactosaminyltransferase 4 (GalNAc-T4)	66	
GAPT	GRB2-binding adaptor protein, transmembrane	50	
GAPVD1	GTPase activating protein and VPS9 domains 1	79	
GAS7	Growth arrest-specific 7	50	√

GATA6	GATA binding protein 6	74	
GATM	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)	93	
GCC2	GRIP and coiled-coil domain containing 2	75	
GCFC1	GC-rich sequence DNA-binding factor 1	75	
GDA	Guanine deaminase	61	
GFPT1	Glutamine--fructose-6-phosphate transaminase 1	99	
GGCT	γ-Glutamylcyclotransferase	52	
GHITM	Growth hormone inducible transmembrane protein	85	
GIMAP1	GTPase, IMAP family member 1	81	
GLDN	Gliomedin	66	
GLRX	Glutaredoxin (thioltransferase)	68	
GLS	Glutaminase	52	
GNA12	Guanine nucleotide binding protein (G protein) α12	56	
GNB4	Guanine nucleotide binding protein (G protein), β polypeptide 4	69	
GOLGA6C	Golgin A6 family, member C	53	
GOLGA6L10	Golgin A6 family-like 10	53	
GP5	Glycoprotein V (platelet)	62	
GPBP1	GC-rich promoter binding protein 1	92	
GPCPD1	Glycerophosphocholine phosphodiesterase GDE1 homolog (*S. cerevisiae*)	65	
GPD1L	Glycerol-3-phosphate dehydrogenase 1-like	86	
GPD2	Glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	85	
GPR137C	G protein-coupled receptor 137C	60	
GPR26	G protein-coupled receptor 26	98	
GPR83	G protein-coupled receptor 83	68	
GPR88	G protein-coupled receptor 88	53	
GPRIN3	GPRIN family member 3	82	
GPSM1	G-protein signaling modulator 1	55	
GPX8	Glutathione peroxidase 8 (putative)	81	
GRB10	Growth factor receptor-bound protein 10	76	
GREM1	Gremlin 1	70	
GRIN2A	Glutamate receptor, ionotropic, *N* -methyl D-aspartate 2A	66	
GRM5	Glutamate receptor, metabotropic 5	75	
GSTCD	Glutathione *S* -transferase, C-terminal domain containing	58	

GTF2H5	General transcription factor IIH, polypeptide 5	53	
GYPA	Glycophorin A (MNS blood group)	57	
H2AFV	H2A histone family, member V	65	
HAO1	Hydroxyacid oxidase (glycolate oxidase) 1	53	
HAUS3	HAUS augmin-like complex, subunit 3	67	
HCN1	Hyperpolarization activated cyclic nucleotide-gated potassium channel 1	71	
HDHD1	Haloacid dehalogenase-like hydrolase domain containing 1	64	
HEATR3	HEAT repeat containing 3	54	
HECA	Headcase homolog (Drosophila)	62	
HEMGN	Hemogen	63	
HEPHL1	Hephaestin-like 1	65	
HEY2	Hairy/enhancer-of-split related with YRPW motif 2	76	
HHLA1	HERV-H LTR-associating 1	52	
HIC2	Hypermethylated in cancer 2	78	
HK2	Hexokinase 2	61	
HLF	Hepatic leukemia factor	56	√
HMBS	Hydroxymethylbilane synthase	58	
HMGB2	High mobility group box 2	55	
HOOK1	Hook homolog 1 (Drosophila)	75	
HOOK3	Hook homolog 3 (Drosophila)	73	√
HOXA1	Homeobox A1	68	
HOXA11	Homeobox A11	66	√
HOXB4	Homeobox B4	67	
HOXC8	Homeobox C8	71	
HOXD1	Homeobox D1	76	
HOXD3	Homeobox D3	59	
HRH1	Histamine receptor H1	85	
HS6ST3	Heparan sulfate 6-*O* -sulfotransferase 3	60	
HSP90B1	Heat shock protein 90 kDa β (Grp94), member 1	56	
IFNA4	Interferon, α4	55	
IFT74	Intraflagellar transport 74 homolog (Chlamydomonas)	53	
IFT81	Intraflagellar transport 81 homolog (Chlamydomonas)	52	
IGF2BP2	Insulin-like growth factor 2 mRNA binding protein 2	55	

IGSF11	Immunoglobulin superfamily, member 11	65	
IL1A	Interleukin 1α	69	
IL1RAP	Interleukin 1 receptor accessory protein	54	
IL2	Interleukin 2	81	√
IL25	Interleukin 25	61	
ILF3	Interleukin enhancer binding factor 3, 90 kDa	55	
INO80	INO80 homolog (*S. cerevisiae*)	82	
INO80D	INO80 complex subunit D	86	
INPP4A	Inositol polyphosphate-4-phosphatase, type I, 107 kDa	81	
INPP5A	Inositol polyphosphate-5-phosphatase, 40 kDa	61	
INPP5E	Inositol polyphosphate-5-phosphatase, 72 kDa	50	
IPMK	Inositol polyphosphate multikinase	80	
IPO5	Importin 5	57	
IPO7	Importin 7	78	
IPO8	Importin 8	90	
IRF5	Interferon regulatory factor 5	52	
IRS2	Insulin receptor substrate 2	62	
ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	77	
ITGB8	Integrin, beta 8	63	
ITSN1	Intersectin 1 (SH3 domain protein)	85	
JAM3	Junctional adhesion molecule 3	59	
JAZF1	JAZF zinc finger 1	76	√
KALRN	Kalirin, RhoGEF kinase	61	
KANK1	KN motif and ankyrin repeat domains 1	72	
KAT2B	K(lysine) acetyltransferase 2B	67	
KCNA4	Potassium voltage-gated channel, shaker-related subfamily, member 4	77	
KCNH1	Potassium voltage-gated channel, subfamily H (eag-related), member 1	86	
KCNH8	Potassium voltage-gated channel, subfamily H (eag-related), member 8	78	
KCNK10	Potassium channel, subfamily K, member 10	52	
KCNMB2	Potassium large conductance calcium-activated channel, subfamily M, beta member 2	58	
KCNN3	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	66	
KCNQ5	Potassium voltage-gated channel, KQT-like subfamily, member 5	91	

KCTD3	Potassium channel tetramerisation domain containing 3	71	
KDM4C	Lysine (K)-specific demethylase 4C	60	
KDM5A	Lysine (K)-specific demethylase 5A	84	√
KIAA0195	KIAA0195	85	
KIAA0196	KIAA0196	54	
KIAA0247	KIAA0247	53	
KIAA0528	KIAA0528	97	
KIAA0825	KIAA0825	66	
KIAA1239	KIAA1239	82	
KIAA1244	KIAA1244	64	
KIAA1324L	KIAA1324-like	62	
KIAA1715	KIAA1715	54	
KIAA2022	KIAA2022	57	
KIF3A	Kinesin family member 3A	93	
KIF3B	Kinesin family member 3B	60	
KITLG	KIT ligand	66	
KLF15	Kruppel-like factor 15	56	
KLF3	Kruppel-like factor 3 (basic)	52	
KLF6	Kruppel-like factor 6	95	
KLHDC5	Kelch domain containing 5	58	
KLHL2	Kelch-like 2, Mayven (Drosophila)	86	
KLHL29	Kelch-like 29 (Drosophila)	72	
KLHL5	Kelch-like 5 (Drosophila)	87	
KPNA1	Karyopherin α1 (importin α5)	56	
KPNA4	Karyopherin α4 (importin α3)	76	
KPNB1	Karyopherin (importin) β1	69	
KRAS	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	86	
KRIT1	KRIT1, ankyrin repeat containing	52	
LAMP2	Lysosomal-associated membrane protein 2	78	
LAPTM4B	Lysosomal protein transmembrane 4β	66	
LARP4	La ribonucleoprotein domain family, member 4	97	
LBR	Lamin B receptor	63	
LCLAT1	Lysocardiolipin acyltransferase 1	64	

LCOR	Ligand dependent nuclear receptor corepressor	62	
LCTL	Lactase-like	69	
LEPROT	Leptin receptor overlapping transcript	52	
LGALSL	Lectin, galactoside-binding-like	76	
LHFPL3	Lipoma HMGIC fusion partner-like 3	75	
LIFR	Leukemia inhibitory factor receptor alpha	79	√
LIN28A	Lin-28 homolog A (*C. elegans*)	62	
LIN28B	Lin-28 homolog B (*C. elegans*)	60	
LMAN1	Lectin, mannose-binding, 1	66	
LMBRD2	LMBR1 domain containing 2	85	
LMO3	LIM domain only 3 (rhombotin-like 2)	73	
LOC100506012	Serine/threonine-protein phosphatase 5-like	68	
LOC100507203	Uncharacterized LOC100507203	80	
LOC100653112	Heparan-sulfate 6-O-sulfotransferase 3-like	60	
LOC100653234	Uncharacterized LOC100653234	76	
LOC100653247	Dual specificity protein phosphatase 22-like	58	
LOC731932	Uncharacterized LOC731932	53	
LONRF1	LON peptidase N-terminal domain and ring finger 1	55	
LONRF2	LON peptidase N-terminal domain and ring finger 2	74	
LOX	Lysyl oxidase	75	
LPCAT2	Lysophosphatidylcholine acyltransferase 2	81	
LPP	LIM domain containing preferred translocation partner in lipoma	77	√
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing	65	
LRP12	Low density lipoprotein receptor-related protein 12	53	
LRRC32	Leucine rich repeat containing 32	75	
LRRC8D	Leucine rich repeat containing 8 family, member D	86	
LRRN1	Leucine rich repeat neuronal 1	70	
LTV1	LTV1 homolog (S. cerevisiae)	54	

LY75-CD302	LY75-CD302 readthrough	73	
LYRM1	LYR motif containing 1	68	
MAB21L3	Mab-21-like 3 (*C. elegans*)	57	
MAGEA4	Melanoma antigen family A, 4	51	
MAGOHB	Mago-nashi homolog B (Drosophila)	68	
MAMDC2	MAM domain containing 2	61	
MAP1B	Microtubule-associated protein 1B	69	
MAP2K1	Mitogen-activated protein kinase kinase 1	60	√
MAP2K4	Mitogen-activated protein kinase kinase 4	57	√
MAP3K3	Mitogen-activated protein kinase kinase kinase 3	51	
MAP3K8	Mitogen-activated protein kinase kinase kinase 8	55	
MAPK1	Mitogen-activated protein kinase 1	73	
MAPK1IP1L	Mitogen-activated protein kinase 1 interacting protein 1-like	65	
MARC2	Mitochondrial amidoxime reducing component 2	70	
MARK1	MAP/microtubule affinity-regulating kinase 1	73	
MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	52	
MAT2A	Methionine adenosyltransferase Iia	51	
MATN3	Matrilin 3	79	
MB21D2	Mab-21 domain containing 2	72	
MBLAC2	Metallo-β-lactamase domain containing 2	80	
MBNL1	Muscleblind-like (Drosophila)	70	
MBOAT2	Membrane bound *O* -acyltransferase domain containing 2	73	
MBTPS2	Membrane-bound transcription factor peptidase, site 2	68	
MCC	Mutated in colorectal cancers	57	
MCTP2	Multiple C2 domains, transmembrane 2	64	
MCTS1	Malignant T cell amplified sequence 1	67	
MDH1B	Malate dehydrogenase 1B, NAD (soluble)	59	
MDM4	Mdm4 p53 binding protein homolog (mouse)	53	√
MED12L	Mediator complex subunit 12-like	74	
MED20	Mediator complex subunit 20	54	
MED8	Mediator complex subunit 8	76	
MEGF10	Multiple EGF-like-domains 10	52	

MEGF9	Multiple EGF-like-domains 9	72	
MELK	Maternal embryonic leucine zipper kinase	70	
MET	Met proto-oncogene (hepatocyte growth factor receptor)	50	√
METAP1	Methionyl aminopeptidase 1	95	
METAP2	Methionyl aminopeptidase 2	82	
METTL20	Methyltransferase like 20	60	
MFSD6	Major facilitator superfamily domain containing 6	61	
MIA2	Melanoma inhibitory activity 2	57	
MID2	Midline 2	73	
MIER3	Mesoderm induction early response 1, family member 3	76	
MINA	MYC induced nuclear antigen	70	
MIP	Major intrinsic protein of lens fiber	61	
MKLN1	Muskelin 1, intracellular mediator containing kelch motifs	73	
MKRN1	Makorin ring finger protein 1	55	
MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	97	√
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3	55	√
MLL5	Myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)	62	
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	63	√
MME	Membrane metallo-endopeptidase	61	
MORC3	MORC family CW-type zinc finger 3	75	
MOSPD1	Motile sperm domain containing 1	69	
MPP5	Membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	84	
MPP7	Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	68	
MRPL13	Mitochondrial ribosomal protein L13	66	
MRPS16	Mitochondrial ribosomal protein S16	64	
MRPS35	Mitochondrial ribosomal protein S35	68	
MTF2	Metal response element binding transcription factor 2	89	
MTMR12	Myotubularin related protein 12	88	
MTMR9	Myotubularin related protein 9	52	
MTUS1	Microtubule associated tumor suppressor 1	66	
MTX3	Metaxin 3	78	
MUC7	Mucin 7, secreted	84	

MYH15	Myosin, heavy chain 15	56	
MYO1E	Myosin IE	57	
MYSM1	Myb-like, SWIRM and MPN domains 1	68	
NAAA	*N*-acylethanolamine acid amidase	51	
NAALADL2	*N*-acetylated α-linked acidic dipeptidase-like 2	58	
NAP1L1	Nucleosome assembly protein 1-like 1	54	
NARG2	NMDA receptor regulated 2	80	
NCOA2	Nuclear receptor coactivator 2	74	√
NDRG4	NDRG family member 4	52	
NDUFAF4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 4	50	
NEK2	NIMA (never in mitosis gene a)-related kinase 2	52	
NEK7	NIMA (never in mitosis gene a)-related kinase 7	82	
NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive	99	
NFATC2IP	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	59	
NFIB	Nuclear factor I/B	60	√
NFYB	Nuclear transcription factor Y, β	51	
NIPAL4	NIPA-like domain containing 4	56	
NKAIN2	Na^+/K^+ transporting ATPase interacting 2	66	
NLN	Neurolysin (metallopeptidase M3 family)	88	
NMT2	N-myristoyltransferase 2	51	
NOTCH2	Notch 2	65	√
NOTCH4	Notch 4	74	
NOVA1	Neuro-oncological ventral antigen 1	94	
NPTXR	Neuronal pentraxin receptor	65	
NR1D2	Nuclear receptor subfamily 1, group D, member 2	55	
NR2C2	Nuclear receptor subfamily 2, group C, member 2	53	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	77	
NR4A3	Nuclear receptor subfamily 4, group A, member 3	63	√
NR6A1	Nuclear receptor subfamily 6, group A, member 1	66	
NRAS	Neuroblastoma RAS viral (v-ras) oncogene homolog	72	√
NRXN1	Neurexin 1	53	
NSUN7	NOP2/Sun domain family, member 7	60	

NTS	Neurotensin	73	
NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	50	
NUDT12	Nudix (nucleoside diphosphate linked moiety X)-type motif 12	82	
NUDT21	Nudix (nucleoside diphosphate linked moiety X)-type motif 21	65	
NUDT4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4	53	
NUFIP1	Nuclear fragile X mental retardation protein interacting protein 1	70	
NUFIP2	Nuclear fragile X mental retardation protein interacting protein 2	54	
O3FAR1	ω3-Fatty acid receptor 1	51	
OCIAD1	OCIA domain containing 1	64	
OGFRL1	Opioid growth factor receptor-like 1	61	
ONECUT2	One cut homeobox 2	86	
OSBPL2	Oxysterol binding protein-like 2	50	
OSBPL3	Oxysterol binding protein-like 3	99	
OSBPL8	Oxysterol binding protein-like 8	86	
OTUD4	OTU domain containing 4	77	
OXGR1	Oxoglutarate (alpha-ketoglutarate) receptor 1	56	
PABPC5	Poly(A) binding protein, cytoplasmic 5	87	
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)	62	
PAG1	Phosphoprotein associated with glycosphingolipid microdomains 1	57	
PALM2	Paralemmin 2	56	
PAM	Peptidylglycine alpha-amidating monooxygenase	97	
PAPD5	PAP associated domain containing 5	99	
PAPOLG	Poly(A) polymerase gamma	78	
PARK2	Parkinson protein 2, E3 ubiquitin protein ligase (parkin)	77	
PARM1	Prostate androgen-regulated mucin-like protein 1	66	
PARP11	Poly (ADP-ribose) polymerase family, member 11	74	
PAWR	PRKC, apoptosis, WT1, regulator	72	
PAX6	Paired box 6	55	
PAX9	Paired box 9	77	
PBX1	Pre-B-cell leukemia homeobox 1	56	√
PBX3	Pre-B-cell leukemia homeobox 3	51	
PCDH11Y	Protocadherin 11 Y-linked	66	
PCDH15	Protocadherin-related 15	54	

PCDHA1	Protocadherin α1	80	
PCDHA10	Protocadherin α10	80	
PCDHA11	Protocadherin α11	80	
PCDHA12	Protocadherin α12	80	
PCDHA13	Protocadherin α13	80	
PCDHA2	protocadherin α2	80	
PCDHA3	Protocadherin α3	80	
PCDHA4	Protocadherin α4	80	
PCDHA5	Protocadherin α5	80	
PCDHA6	Protocadherin α6	80	
PCDHA7	Protocadherin α7	80	
PCDHA8	Protocadherin α8	72	
PCDHA9	Protocadherin α9	72	
PCDHAC1	Protocadherin α subfamily C, 1	80	
PCDHAC2	Protocadherin α subfamily C, 2	95	
PCGF3	Polycomb group ring finger 3	52	
PCID2	PCI domain containing 2	70	
PCNP	PEST proteolytic signal containing nuclear protein	82	
PCSK1	Proprotein convertase subtilisin/kexin type 1	58	
PDAP1	PDGFA associated protein 1	63	
PDCD6IP	Programmed cell death 6 interacting protein	59	
PDE5A	Phosphodiesterase 5A, cGMP-specific	100	
PDGFRA	Platelet-derived growth factor receptor, α polypeptide	69	√
PDK1	Pyruvate dehydrogenase kinase, isozyme 1	52	
PEAK1	NKF3 kinase family member	67	
PER3	Period homolog 3 (Drosophila)	83	
PET117	Cytochrome c oxidase assembly factor-like	59	
PEX13	Peroxisomal biogenesis factor 13	62	
PGAP1	Post-GPI attachment to proteins 1	95	
PGPEP1L	Pyroglutamyl-peptidase I-like	52	
PGR	Progesterone receptor	62	
PHACTR2	Phosphatase and actin regulator 2	69	
PHACTR4	Phosphatase and actin regulator 4	57	

PHC3	Polyhomeotic homolog 3 (Drosophila)	71	
PHF20L1	PHD finger protein 20-like 1	87	
PHF3	PHD finger protein 3	55	
PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	73	
PHTF2	Putative homeodomain transcription factor 2	70	
PI4K2B	Phosphatidylinositol 4-kinase type 2 β	85	
PIK3C2A	Phosphoinositide-3-kinase, class 2, α polypeptide	65	
PIK3R3	Phosphoinositide-3-kinase, regulatory subunit 3γ	58	
PITPNB	Phosphatidylinositol transfer protein, beta	75	
PKNOX1	PBX/knotted 1 homeobox 1	69	
PKNOX2	PBX/knotted 1 homeobox 2	71	
PKP2	Plakophilin 2	67	
PLA2G4C	Phospholipase A2, group IVC (cytosolic, calcium-independent)	57	
PLAC1L	Placenta-specific 1-like	83	
PLAG1	Pleiomorphic adenoma gene 1	61	√
PLAU	Plasminogen activator, urokinase	67	
PLCL2	Phospholipase C-like 2	67	
PLD1	Phospholipase D1, phosphatidylcholine-specific	55	
PLDN	Pallidin homolog (mouse)	70	
PLEKHA3	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	88	
PLEKHA8	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8	66	
PLG	Plasminogen	82	
PLSCR5	Phospholipid scramblase family, member 5	55	
PMAIP1	Phorbol-12-myristate-13-acetate-induced protein 1	50	
PNMA1	Paraneoplastic antigen MA1	56	
PNPT1	Polyribonucleotide nucleotidyltransferase 1	53	
PNRC2	Proline-rich nuclear receptor coactivator 2	72	
POC1B-GALNT4	POC1B-GALNT4 readthrough	55	
POLI	Polymerase (DNA directed) iota	68	
POLQ	Polymerase (DNA directed), theta	81	

POLR3G	Polymerase (RNA) III (DNA directed) polypeptide G (32 kD)	70	
POM121	POM121 membrane glycoprotein	81	
POM121C	POM121 membrane glycoprotein C	73	
POMC	Proopiomelanocortin	53	
POU2F1	POU class 2 homeobox 1	68	
PPARA	Peroxisome proliferator-activated receptor-α	54	
PPFIA1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), α1	53	
PPIP5K2	Diphosphoinositol pentakisphosphate kinase 2	63	
PPP1R12B	Protein phosphatase 1, regulatory subunit 12B	90	
PPP1R3B	Protein phosphatase 1, regulatory subunit 3B	68	
PPP1R3C	Protein phosphatase 1, regulatory subunit 3C	64	
PPP1R3D	Protein phosphatase 1, regulatory subunit 3D	57	
PPP1R9A	Protein phosphatase 1, regulatory subunit 9A	72	
PPP2R5E	Protein phosphatase 2, regulatory subunit B', epsilon isoform	72	
PPP3R1	Protein phosphatase 3, regulatory subunit B, α	60	
PRDM4	PR domain containing 4	71	
PRDX3	Peroxiredoxin 3	84	
PRH2	Proline-rich protein HaeIII subfamily 2	79	
PRKCD	Protein kinase C, δ	70	
PRKCE	Protein kinase C, epsilon	58	
PRKG1	Protein kinase, cGMP-dependent, type I	89	
PRLR	Prolactin receptor	72	
PROCR	Protein C receptor, endothelial	51	
PROSER1	Proline and serine rich 1	57	
PRR20A	Proline rich 20A	52	
PRR20B	Proline rich 20B	52	
PRR20C	Proline rich 20C	52	
PRR20D	Proline rich 20D	52	
PRR20E	Proline rich 20E	52	
PRRC1	Proline-rich coiled-coil 1	53	
PRRC2C	Proline-rich coiled-coil 2C	52	
PRRG4	Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	58	

PRSS16	Protease, serine, 16 (thymus)	56	
PRTG	Protogenin	100	
PSG11	Pregnancy specific β-1-glycoprotein 11	67	
PSG3	Pregnancy specific β-1-glycoprotein 3	67	
PSG5	Pregnancy specific β-1-glycoprotein 5	70	
PSG9	Pregnancy specific β-1-glycoprotein 9	64	
PSRC1	Proline/serine-rich coiled-coil 1	71	
PTBP2	Polypyrimidine tract binding protein 2	64	
PTBP3	Polypyrimidine tract binding protein 3	75	
PTGER3	Prostaglandin E receptor 3 (subtype EP3)	74	
PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	55	
PTPN22	Protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	69	
PTPN9	Protein tyrosine phosphatase, non-receptor type 9	64	
PTPRB	Protein tyrosine phosphatase, receptor type, B	55	
QSER1	Glutamine and serine rich 1	51	
RAB11A	RAB11A, member RAS oncogene family	72	
RAB27B	RAB27B, member RAS oncogene family	65	
RAB3GAP1	RAB3 GTPase activating protein subunit 1 (catalytic)	77	
RAB3IP	RAB3A interacting protein (rabin3)	97	
RAB40B	RAB40B, member RAS oncogene family	56	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	58	
RAD21	RAD21 homolog (*S. pombe*)	88	√
RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic)	82	
RAP1B	RAP1B, member of RAS oncogene family	85	
RAP2A	RAP2A, member of RAS oncogene family	70	
RAPGEF4	Rap guanine nucleotide exchange factor (GEF) 4	64	
RASSF2	Ras association (RalGDS/AF-6) domain family member 2	91	
RASSF6	Ras association (RalGDS/AF-6) domain family member 6	76	
RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8	53	
RBBP7	Retinoblastoma binding protein 7	70	
RBM25	RNA binding motif protein 25	86	
RBM26	RNA binding motif protein 26	74	
RCOR1	REST corepressor 1	52	

RECK	Reversion-inducing-cysteine-rich protein with kazal motifs	54	
REEP1	Receptor accessory protein 1	52	
REPS2	RALBP1 associated Eps domain containing 2	93	
RFC1	Replication factor C (activator 1) 1, 145 kDa	80	
RGPD1	RANBP2-like and GRIP domain containing 1	84	
RGS18	Regulator of G-protein signaling 18	56	
RGS5	Regulator of G-protein signaling 5	65	
RIMKLA	Ribosomal modification protein rimK-like family member A	65	
RIN2	Ras and Rab interactor 2	75	
RLF	Rearranged L-myc fusion	93	
RNF145	Ring finger protein 145	69	
RNF182	Ring finger protein 182	64	
RNF19A	Ring finger protein 19A	58	
RNF34	Ring finger protein 34	83	
RNF6	Ring finger protein (C3H2C3 type) 6	65	
RNF8	Ring finger protein 8	81	
RNMT	RNA (guanine-7-) methyltransferase	68	
ROBO2	Roundabout, axon guidance receptor, homolog 2 (Drosophila)	68	
RORA	RAR-related orphan receptor A	92	
RPAP2	RNA polymerase II associated protein 2	84	
RPE65	Retinal pigment epithelium-specific protein 65 kDa	82	
RPS6KB1	Ribosomal protein S6 kinase, 70 kDa, polypeptide 1	74	
RRP15	Ribosomal RNA processing 15 homolog (*S. cerevisiae*)	70	
RUFY2	RUN and FYVE domain containing 2	54	
RYR3	Ryanodine receptor 3	56	
S1PR1	Sphingosine-1-phosphate receptor 1	98	
SAMD12	Sterile α motif domain containing 12	81	
SAMD9L	Sterile α motif domain containing 9-like	74	
SAMHD1	SAM domain and HD domain 1	50	
SCD	Stearoyl-CoA desaturase (δ-9-desaturase)	94	
SCN9A	Sodium channel, voltage-gated, type IX, alpha subunit	58	
SCOC	Short coiled-coil protein	80	
SEC24A	SEC24 family, member A (*S. cerevisiae*)	57	

SEC24C	SEC24 family, member C (*S. cerevisiae*)	79	
SEL1L	Sel-1 suppressor of lin-12-like (*C. elegans*)	71	
SELK	Selenoprotein K	51	
SELT	Selenoprotein T	64	
SEMA3C	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	70	
SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	79	
SENP1	SUMO1/sentrin specific peptidase 1	61	
SEPT8	Septin 8	52	
SERPINA1	Serpin peptidase inhibitor, clade A (α-1 antiproteinase, antitrypsin), member 1	51	
SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	65	
SH2B3	SH2B adaptor protein 3	51	√
SH2D4A	SH2 domain containing 4A	58	
SH3TC2	SH3 domain and tetratricopeptide repeats 2	99	
SHC3	SHC (Src homology 2 domain containing) transforming protein 3	84	
SHE	Src homology 2 domain containing E	66	
SHQ1	SHQ1 homolog (*S. cerevisiae*)	62	
SIAE	Sialic acid acetylesterase	58	
SIPA1L2	Signal-induced proliferation-associated 1 like 2	89	
SIRT1	Sirtuin 1	79	
SKP1	S-phase kinase-associated protein 1	55	
SLA	Src-like-adaptor	62	
SLAIN2	SLAIN motif family, member 2	64	
SLC10A7	Solute carrier family 10 (sodium/bile acid cotransporter family), member 7	61	
SLC11A1	Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	68	
SLC16A6	Solute carrier family 16, member 6 (monocarboxylic acid transporter 7)	52	
SLC19A2	Solute carrier family 19 (thiamine transporter), member 2	78	
SLC22A15	Solute carrier family 22, member 15	58	
SLC24A1	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 1	73	
SLC25A24	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24	78	
SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	57	
SLC25A32	Solute carrier family 25, member 32	57	
SLC25A4	Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	53	

SLC26A4	Solute carrier family 26, member 4	52	
SLC2A1	Solute carrier family 2 (facilitated glucose transporter), member 1	50	
SLC35C2	Solute carrier family 35, member C2	66	
SLC38A11	Solute carrier family 38, member 11	65	
SLC38A2	Solute carrier family 38, member 2	56	
SLC3A1	Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1	50	
SLC4A10	Solute carrier family 4, sodium bicarbonate transporter, member 10	78	
SLC4A8	Solute carrier family 4, sodium bicarbonate cotransporter, member 8	66	
SLC5A3	Solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	63	
SLC5A8	Solute carrier family 5 (iodide transporter), member 8	60	
SLC6A2	Solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	61	
SLC7A11	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	85	
SLC7A2	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	55	
SLC9A6	Solute carrier family 9 (sodium/hydrogen exchanger), member 6	55	
SLITRK1	SLIT and NTRK-like family, member 1	83	
SLK	STE20-like kinase	52	
SMN1	Survival of motor neuron 1, telomeric	64	
SMN2	Survival of motor neuron 2, centromeric	64	
SNAPC3	Small nuclear RNA activating complex, polypeptide 3, 50 kDa	60	
SNX5	Sorting nexin 5	68	
SOBP	Sine oculis binding protein homolog (Drosophila)	55	
SOCS4	Suppressor of cytokine signaling 4	67	
SORD	Sorbitol dehydrogenase	57	
SOS1	Son of sevenless homolog 1 (Drosophila)	62	
SOX5	SRY (sex determining region Y)-box 5	60	
SOX6	SRY (sex determining region Y)-box 6	78	
SPIN1	Spindlin 1	62	
SPIRE1	Spire homolog 1 (Drosophila)	53	
SPOCK1	Sparc/Osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	80	
SPP1	Secreted phosphoprotein 1	88	
SPRY4	Sprouty homolog 4 (Drosophila)	75	
SPTLC1	Serine palmitoyltransferase, long chain base subunit 1	62	

SRPK2	SRSF protein kinase 2	84	
SRSF7	Serine/Arginine-rich splicing factor 7	84	
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	52	
SS18L2	Synovial sarcoma translocation gene on chromosome 18-like 2	54	
SSB	Sjogren syndrome antigen B (autoantigen La)	50	
SSX2IP	Synovial sarcoma, X breakpoint 2 interacting protein	65	
ST6GALNAC3	ST6 (α-*N*-acetyl-neuraminyl-2,3-β-galactosyl-1,3)-*N*-acetylgalactosaminide α-2,6-sialyltransferase 3	65	
ST8SIA4	ST8 α-*N*-acetyl-neuraminide α-2,8-sialyltransferase 4	82	
STARD4	StAR-related lipid transfer (START) domain containing 4	68	
STC1	Stanniocalcin 1	65	
STC2	Stanniocalcin 2	60	
STEAP4	STEAP family member 4	61	
STRN	Striatin, calmodulin binding protein	60	
STS	Steroid sulfatase (microsomal), isozyme S	55	
STX7	Syntaxin 7	73	
STXBP5	Syntaxin binding protein 5 (tomosyn)	70	
SUCLG2	Succinate-CoA ligase, GDP-forming, β subunit	81	
SUDS3	Suppressor of defective silencing 3 homolog (*S. cerevisiae*)	56	
SUGP2	SURP and G patch domain containing 2	53	
SULT1C2	Sulfotransferase family, cytosolic, 1C, member 2	58	
SVIP	Small VCP/p97-interacting protein	70	
SYNE1	Spectrin repeat containing, nuclear envelope 1	88	
SYNPO2	Synaptopodin 2	66	
SYNPR	Synaptoporin	66	
SYT15	Synaptotagmin XV	64	
TADA1	Transcriptional adaptor 1	59	
TADA2B	Transcriptional adaptor 2B	81	
TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48 kDa	56	
TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65 kDa	50	
TAP2	Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	57	
TARDBP	TAR DNA binding protein	62	

TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1	89	
TBC1D14	TBC1 domain family, member 14	53	
TBC1D24	TBC1 domain family, member 24	66	
TBC1D4	TBC1 domain family, member 4	87	
TBCD	Tubulin folding cofactor D	57	
TBCEL	Tubulin folding cofactor E-like	56	
TBL1X	Transducin (β)-like 1X-linked	91	
TBL1XR1	Transducin (β)-like 1 X-linked receptor 1	88	
TBPL1	TBP-like 1	69	
TBXA2R	Thromboxane A2 receptor	60	
TCERG1	Transcription elongation regulator 1	94	
TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)	61	√
TDRD6	Tudor domain containing 6	58	
TET2	Tet methylcytosine dioxygenase 2	92	√
TFEC	Transcription factor EC	72	
TFRC	Yransferrin receptor (p90, CD71)	84	√
TGFBI	Transforming growth factor, beta-induced, 68 kDa	65	
TGFBR1	Transforming growth factor, beta receptor 1	73	
TGFBRAP1	Transforming growth factor, beta receptor associated protein 1	75	
THAP2	THAP domain containing, apoptosis associated protein 2	62	
THOC7	THO complex 7 homolog (Drosophila)	65	
TIA1	TIA1 cytotoxic granule-associated RNA binding protein	68	
TIFA	TRAF-interacting protein with forkhead-associated domain	89	
TIMELESS	Timeless homolog (Drosophila)	57	
TIMM17A	Translocase of inner mitochondrial membrane 17 homolog A (yeast)	57	
TIMP3	TIMP metallopeptidase inhibitor 3	71	
TLL1	Tolloid-like 1	73	
TLR4	Toll-like receptor 4	66	
TM9SF3	Transmembrane 9 superfamily member 3	91	
TMEM106B	Transmembrane protein 106B	78	
TMEM131	Transmembrane protein 131	86	
TMEM135	Transmembrane protein 135	63	
TMEM14A	Transmembrane protein 14A	53	

TMEM165	Transmembrane protein 165	83	
TMEM181	Transmembrane protein 181	69	
TMEM184C	Transmembrane protein 184C	56	
TMEM194A	Transmembrane protein 194A	71	
TMEM196	Transmembrane protein 196	72	
TMEM207	Transmembrane protein 207	61	
TMEM242	Transmembrane protein 242	59	
TMEM26	tTansmembrane protein 26	78	
TMEM27	Transmembrane protein 27	70	
TMEM33	Transmembrane protein 33	72	
TMEM48	Transmembrane protein 48	67	
TMEM64	Transmembrane protein 64	57	
TMEM87B	Transmembrane protein 87B	98	
TMF1	TATA element modulatory factor 1	80	
TMPRSS11BNL	TMPRSS11B N terminal-like	59	
TMPRSS2	Transmembrane protease, serine 2	70	√
TNF	Tumor necrosis factor	80	
TNFAIP1	Tumor necrosis factor, alpha-induced protein 1 (endothelial)	61	
TNFAIP6	Tumor necrosis factor, α-induced protein 6	62	
TNFRSF10B	Tumor necrosis factor receptor superfamily, member 10b	57	
TNFRSF11B	Tumor necrosis factor receptor superfamily, member 11b	74	
TNFSF4	Tumor necrosis factor (ligand) superfamily, member 4	86	
TNPO1	Transportin 1	99	
TNRC6B	Trinucleotide repeat containing 6B	76	
TNS3	Tensin 3	51	
TOM1L1	Target of myb1 (chicken)-like 1	84	
TOR1AIP2	Torsin A interacting protein 2	86	
TOX	Thymocyte selection-associated high mobility group box	76	
TP63	Tumor protein p63	53	
TPRX1	Tetra-peptide repeat homeobox 1	82	
TRAK1	Trafficking protein, kinesin binding 1	76	
TRDMT1	tRNA aspartic acid methyltransferase 1	85	

TRDN	Triadin	60	
TREML4	Triggering receptor expressed on myeloid cells-like 4	72	
TRIM2	Tripartite motif containing 2	91	
TRIM71	Tripartite motif containing 71	58	
TRNP1	TMF1-regulated nuclear protein 1	50	
TRPM3	Transient receptor potential cation channel, subfamily M, member 3	57	
TSC22D2	TSC22 domain family, member 2	61	
TSPAN8	Tetraspanin 8	78	
TSPYL4	TSPY-like 4	71	
TTC39B	Tetratricopeptide repeat domain 39B	58	
TWISTNB	TWIST neighbor	54	
TXNDC15	Thioredoxin domain containing 15	89	
UBE2A	Ubiquitin-conjugating enzyme E2A	72	
UBE2B	Ubiquitin-conjugating enzyme E2B	69	
UBE2D1	Ubiquitin-conjugating enzyme E2D 1	80	
UBL3	Ubiquitin-like 3	63	
UBP1	Upstream binding protein 1 (LBP-1a)	86	
UNC80	Unc-80 homolog (*C. elegans*)	63	
USO1	USO1 vesicle docking protein homolog (yeast)	53	
USP31	Ubiquitin specific peptidase 31	50	
USP33	Ubiquitin specific peptidase 33	77	
USP42	Ubiquitin specific peptidase 42	74	
USP9Y	Ubiquitin specific peptidase 9, Y-linked	57	
VANGL1	Vang-like 1 (van gogh, Drosophila)	54	
VBP1	Von Hippel-Lindau binding protein 1	72	
VCAN	Versican	55	
VCX	Variable charge, X-linked	59	
VCX3A	Variable charge, X-linked 3A	59	
VCX3B	Variable charge, X-linked 3B	61	
VCY1B	Variable charge, Y-linked 1B	73	
VHL	Von Hippel-Lindau tumor suppressor	64	√
VIP	Vasoactive intestinal peptide	58	
VPS13A	Vacuolar protein sorting 13 homolog A (*S. cerevisiae*)+B986	57	

VPS13C	Vacuolar protein sorting 13 homolog C (*S. cerevisiae*)	52	
VTI1A	Vesicle transport through interaction with t-SNAREs homolog 1A (yeast)	50	√
WASL	Wiskott-Aldrich syndrome-like	51	
WDFY3	WD repeat and FYVE domain containing 3	65	
WDR36	WD repeat domain 36	54	
WDYHV1	WDYHV motif containing 1	50	
WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules	63	
WHSC2	Wolf-Hirschhorn syndrome candidate 2	79	
WIF1	WNT inhibitory factor 1	51	√
WNK1	WNK lysine deficient protein kinase 1	65	
WNT16	Wingless-type MMTV integration site family, member 16	55	
WSCD1	WSC domain containing 1	58	
XPO7	Exportin 7	61	
XRN1	5'-3' exoribonuclease 1	76	
XRRA1	X-ray radiation resistance associated 1	57	
YLPM1	YLP motif containing 1	69	
YPEL1	Yippee-like 1 (Drosophila)	66	
YTHDC1	YTH domain containing 1	70	
YTHDC2	YTH domain containing 2	58	
YWHAG	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	53	
ZAK	Sterile alpha motif and leucine zipper containing kinase AZK	64	
ZBTB34	Zinc finger and BTB domain containing 34	64	
ZBTB4	Zinc finger and BTB domain containing 4	76	
ZBTB43	Zinc finger and BTB domain containing 43	80	
ZBTB44	Zinc finger and BTB domain containing 44	78	
ZC3H6	Zinc finger CCCH-type containing 6	75	
ZDHHC21	Zinc finger, DHHC-type containing 21	76	
ZDHHC3	Zinc finger, DHHC-type containing 3	51	
ZEB2	Zinc finger E-box binding homeobox 2	68	
ZFAND4	Zinc finger, AN1-type domain 4	63	
ZFAND6	Zinc finger, AN1-type domain 6	82	
ZFP14	Zinc finger protein 14 homolog (mouse)	93	

ZFP28	Zinc finger protein 28 homolog (mouse)	52	
ZFP36L1	Zinc finger protein 36, C3H type-like 1	70	
ZFP36L2	Zinc finger protein 36, C3H type-like 2	85	
ZFP62	Zinc finger protein 62 homolog (mouse)	56	
ZFP82	Zinc finger protein 82 homolog (mouse)	51	
ZFP91	Zinc finger protein 91 homolog (mouse)	62	
ZFYVE16	Zinc finger, FYVE domain containing 16	63	
ZFYVE26	Zinc finger, FYVE domain containing 26	50	
ZIC2	Zic family member 2	55	
ZIC3	Zic family member 3	80	
ZMYND11	Zinc finger, MYND-type containing 11	70	
ZNF124	Zinc finger protein 124	77	
ZNF136	Zinc finger protein 136	63	
ZNF14	Zinc finger protein 14	64	
ZNF140	Zinc finger protein 140	55	
ZNF181	Zinc finger protein 181	79	
ZNF20	Zinc finger protein 20	56	
ZNF217	Zinc finger protein 217	57	
ZNF266	Zinc finger protein 266	72	
ZNF268	Zinc finger protein 268	97	
ZNF277	Zinc finger protein 277	57	
ZNF28	Zinc finger protein 28	63	
ZNF280D	Zinc finger protein 280D	73	
ZNF326	Zinc finger protein 326	61	
ZNF329	Zinc finger protein 329	77	
ZNF37A	Zinc finger protein 37A	62	
ZNF382	Zinc finger protein 382	54	
ZNF396	Zinc finger protein 396	78	
ZNF439	Zinc finger protein 439	100	
ZNF44	Zinc finger protein 44	52	
ZNF440	Zinc finger protein 440	95	
ZNF441	Zinc finger protein 441	78	
ZNF454	Zinc finger protein 454	78	

ZNF468	Zinc finger protein 468	87	
ZNF479	Zinc finger protein 479	71	
ZNF514	Zinc finger protein 514	86	
ZNF527	Zinc finger protein 527	51	
ZNF544	Znc finger protein 544	69	
ZNF555	Zinc finger protein 555	55	
ZNF559	Zinc finger protein 559	98	
ZNF562	Zinc finger protein 562	69	
ZNF563	Zinc finger protein 563	88	
ZNF568	Zinc finger protein 568	64	
ZNF586	Zinc finger protein 586	84	
ZNF592	Zinc finger protein 592	53	
ZNF594	Zinc finger protein 594	100	
ZNF606	Zinc finger protein 606	60	
ZNF615	Zinc finger protein 615	51	
ZNF626	Zinc finger protein 626	51	
ZNF654	Zinc finger protein 654	67	
ZNF655	Zinc finger protein 655	80	
ZNF673	Zinc finger family member 673	80	
ZNF674	Zinc finger protein 674	60	
ZNF677	Zinc finger protein 677	67	
ZNF700	Zinc finger protein 700	75	
ZNF704	Zinc finger protein 704	92	
ZNF74	Zinc finger protein 74	55	
ZNF780A	Zinc finger protein 780A	80	
ZNF780B	Zinc finger protein 780B	97	
ZNF781	Zinc finger protein 781	99	
ZNF800	Zinc finger protein 800	59	
ZNF814	Zinc finger protein 814	87	
ZNF823	Zinc finger protein 823	69	
ZNF83	Zinc finger protein 83	80	
ZNF844	Zinc finger protein 844	98	
ZNF850	Zinc finger protein 850	66	

ZNRF2	Zinc and ring finger 2	54	
ZRANB1	Zinc finger, RAN-binding domain containing 1	55	
ZSCAN23	Zinc finger and SCAN domain containing 23	88	
ZXDC	ZXD family zinc finger C	92	

Supplementary Table 4. Predicted targets of hsa-miR-181a-5p by miRanda microT v5.0 that are cancer genes.

Gene symbol	Full nmae
ABI1	Abl-interactor 1
ABL1	ABL proto-oncogene 1, non-receptor tyrosine kinase
ABL2	ABL proto-oncogene 2, non-receptor tyrosine kinase
AKAP9	A kinase (PRKA) anchor protein 9
AKT2	V-akt murine thymoma viral oncogene homolog 2
APC	Adenomatous polyposis coli
ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
ARID2	AT rich interactive domain 2
ARNT	Aryl hydrocarbon receptor nuclear translocator
ATF1	Activating transcription factor 1
ATM	ATM serine/threonine kinase
ATP2B3	ATPase, Ca^{++} transporting, plasma membrane 3
ATRX	α-Thalassemia/mental retardation syndrome X-linked
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
BCL2	B-cell CLL/lymphoma 2
BCL6	B-cell CLL/lymphoma 6
BCL7A	B-cell CLL/lymphoma 7A
BCL9	B-cell CLL/lymphoma 9
BCOR	BCL6 corepressor
BCR	Breakpoint cluster region
BRCA1	Breast cancer 1, early onset
BTG1	B-cell translocation gene 1, anti-proliferative
C16orf75	RMI2, RecQ mediated genome instability 2, homolog (*S. cerevisiae*)
CALR	Calreticulin
CAMTA1	Calmodulin binding transcription activator 1
CANT1	Calcium activated nucleotidase 1
CARD11	Caspase recruitment domain family, member 11
CASP8	Caspase 8, apoptosis-related cysteine peptidase
CBFA2T3	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3
CBL	Cbl proto-oncogene, E3 ubiquitin protein ligase

CBLB	Cbl proto-oncogene B, E3 ubiquitin protein ligase
CCDC6	Coiled-coil domain containing 6
CCNE1	Cyclin E1
CD274	CD274 molecule
CDC73	Cell division cycle 73
CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
CDK6	Cyclin-dependent kinase 6
CDX2	Caudal type homeobox 2
CEBPA	CCAAT/enhancer binding protein (C/EBP), α
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7
CHN1	Chimerin 1
CLTC	Clathrin, heavy chain (Hc)
CREB1	cAMP responsive element binding protein 1
CREB3L2	cAMP responsive element binding protein 3-like 2
CREBBP	CREB binding protein
CRTC3	CREB regulated transcription coactivator 3
CTNNB1	Catenin (cadherin-associated protein), β1, 88 kDa
CYLD	Cylindromatosis (turban tumor syndrome)
DAXX	Death-domain associated protein
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10
DDX5	DEAD (Asp-Glu-Ala-Asp) box helicase 5
DEK	DEK proto-oncogene
DICER1	Dicer 1, ribonuclease type III
DNM2	Dynamin 2
ECT2L	Epithelial cell transforming 2 like
EGFR	Epidermal growth factor receptor
EIF4A2	Eukaryotic translation initiation factor 4A2
EML4	Echinoderm microtubule associated protein like 4
EPS15	Epidermal growth factor receptor pathway substrate 15
ERG	V-ets avian erythroblastosis virus E26 oncogene homolog
ETV1	Ets variant 1
ETV6	Ets variant 6
EXT2	Exostosin glycosyltransferase 2

EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit
FAM46C	Family with sequence similarity 46, member C
FANCA	Fanconi anemia, complementation group A
FANCD2	Fanconi anemia, complementation group D2
FANCF	Fanconi anemia, complementation group F
FANCG	Fanconi anemia, complementation group G
FAS	Fas cell surface death receptor
FBXO11	F-box protein 11
FGFR1	Fibroblast growth factor receptor 1
FGFR1OP	FGFR1 oncogene partner
FGFR2	Fibroblast growth factor receptor 2
FGFR3	Fibroblast growth factor receptor 3
FLT3	Fms-related tyrosine kinase 3
FNBP1	Formin binding protein 1
FOXP1	Forkhead box P1
FSTL3	Follistatin-like 3 (secreted glycoprotein)
FUS	FUS RNA binding protein
GAS7	Growth arrest-specific 7
GATA2	GATA binding protein 2
GNAS	GNAS complex locus
GOPC	Golgi-associated PDZ and coiled-coil motif containing
H3F3B	H3 histone, family 3B (H3.3B)
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
HEY1	Hes-related family bHLH transcription factor with YRPW motif 1
HLF	Hepatic leukemia factor
HMGA2	High mobility group AT-hook 2
HNRNPA2B1	Heterogeneous nuclear ribonucleoprotein A2/B1
HOOK3	Hook microtubule-tethering protein 3
HOXA11	Homeobox A11
HOXC11	Homeobox C11
HOXC13	Homeobox C13

IDH1	Isocitrate dehydrogenase 1 ($NADP^+$), soluble
IGL@	Immunoglobulin lambda locus
IL2	Interleukin 2
IL21R	Interleukin 21 receptor
IL6ST	Interleukin 6 signal transducer
IL7R	Interleukin 7 receptor
IRF4	Interferon regulatory factor 4
JAK2	Janus kinase 2
JAZF1	JAZF zinc finger 1
JUN	Jun proto-oncogene
KCNJ5	Potassium inwardly-rectifying channel, subfamily J, member 5
KDM5A	Lysine (K)-specific demethylase 5A
KDM5C	Lysine (K)-specific demethylase 5C
KDM6A	Lysine (K)-specific demethylase 6A
KDR	Kinase insert domain receptor (a type III receptor tyrosine kinase)
KIAA1549	KIAA1549
KLK2	Kallikrein-related peptidase 2
KRAS	Kirsten rat sarcoma viral oncogene homolog
LASP1	LIM and SH3 protein 1
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)
LIFR	Leukemia inhibitory factor receptor α
LMO1	LIM domain only 1 (rhombotin 1)
LPP	LIM domain containing preferred translocation partner in lipoma
MAF	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog
MAFB	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog B
MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
MALT1	Mucosa associated lymphoid tissue lymphoma translocation gene 1
MAP2K1	Mitogen-activated protein kinase kinase 1
MAP2K4	Mitogen-activated protein kinase kinase 4
MDM2	MDM2 proto-oncogene, E3 ubiquitin protein ligase
MDM4	MDM4, p53 regulator
MDS2	Myelodysplastic syndrome 2 translocation associated

MET	MET proto-oncogene, receptor tyrosine kinase
MITF	Microphthalmia-associated transcription factor
MKL1	Megakaryoblastic leukemia (translocation) 1
MLF1	Myeloid leukemia factor 1
MLH1	MutL homolog 1
MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3
MLLT4	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
MLLT6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6
MN1	Meningioma (disrupted in balanced translocation) 1
MPL	MPL proto-oncogene, thrombopoietin receptor
MSH2	MutS homolog 2
MSI2	Musashi RNA-binding protein 2
MYB	V-myb avian myeloblastosis viral oncogene homolog
MYCN	V-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog
MYH11	Myosin, heavy chain 11, smooth muscle
NCOA1	Nuclear receptor coactivator 1
NCOA2	Nuclear receptor coactivator 2
NF1	Neurofibromin 1
NF2	Neurofibromin 2 (merlin)
NFE2L2	Nuclear factor, erythroid 2-like 2
NFIB	Nuclear factor I/B
NIN	Ninein (GSK3B interacting protein)
NOTCH2	Notch 2
NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)
NR4A3	Nuclear receptor subfamily 4, group A, member 3
NRAS	Neuroblastoma RAS viral (v-ras) oncogene homolog
NSD1	Nuclear receptor binding SET domain protein 1
NT5C2	5'-Nucleotidase, cytosolic II
NUP98	Nucleoporin 98 kDa
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)

PAX3	Paired box 3
PAX5	Paired box 5
PAX7	Paired box 7
PBRM1	Polybromo 1
PBX1	Pre-B-cell leukemia homeobox 1
PDE4DIP	Phosphodiesterase 4D interacting protein
PDGFRA	Platelet-derived growth factor receptor, α polypeptide
PDGFRB	Platelet-derived growth factor receptor, β polypeptide
PHF6	PHD finger protein 6
PHOX2B	Paired-like homeobox 2b
PICALM	Phosphatidylinositol binding clathrin assembly protein
PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1 (α)
PLAG1	Pleiomorphic adenoma gene 1
PML	Promyelocytic leukemia
PMS1	PMS1 postmeiotic segregation increased 1 (S. cerevisiae)
PPARG	Peroxisome proliferator-activated receptor gamma
PRDM1	PR domain containing 1, with ZNF domain
PTEN	Phosphatase and tensin homolog
PTPRC	Protein tyrosine phosphatase, receptor type, C
RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
RAD21	RAD21 homolog (*S. pombe*)
RALGDS	Ral guanine nucleotide dissociation stimulator
RANBP17	RAN binding protein 17
RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1
RB1	Retinoblastoma 1
RNF43	Ring finger protein 43
RPL5	Ribosomal protein L5
RUNX1	Runt-related transcription factor 1
SDC4	Syndecan 4
SETBP1	SET binding protein 1
SF3B1	Splicing factor 3b, subunit 1, 155 kDa
SH2B3	SH2B adaptor protein 3
SLC34A2	Solute carrier family 34 (type II sodium/phosphate contransporter), member 2

SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
SRGAP3	SLIT-ROBO Rho GTPase activating protein 3
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)
SUFU	Suppressor of fused homolog (Drosophila)
SUZ12	SUZ12 polycomb repressive complex 2 subunit
SYK	Spleen tyrosine kinase
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68 kDa
TAL2	T-cell acute lymphocytic leukemia 2
TBL1XR1	Transducin$_{\beta}$-like 1 X-linked receptor 1
TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)
TET2	Tet methylcytosine dioxygenase 2
TFRC	Transferrin receptor
TMPRSS2	Transmembrane protease, serine 2
TOP1	Topoisomerase (DNA) I
TPM3	Tropomyosin 3
TRA@	T cell receptor, α
TRIM27	Tripartite motif containing 27
TRIM33	Tripartite motif containing 33
TRRAP	Transformation/transcription domain-associated protein
TSC1	Tuberous sclerosis 1
TSHR	Thyroid stimulating hormone receptor
U2AF1	U2 small nuclear RNA auxiliary factor 1
UBR5	Ubiquitin protein ligase E3 component n-recognin 5
VTI1A	Vesicle transport through interaction with t-SNAREs 1A
WHSC1	Wolf-Hirschhorn syndrome candidate 1
WIF1	WNT inhibitory factor 1
YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon
ZNF521	Zinc finger protein 521

Suppementary Table 6. Predicted targets of hsa-miR-181a-5p by RNA22 v2

Gene symbol	Gene name	Cancer gene
A2ML1	α2-Macroglobulin-like 1	
AADACL3	Arylacetamide deacetylase-like 3	
AADAT	Aminoadipate aminotransferase	
AAGAB	α- and γ-Adaptin binding protein	
AAK1	AP2 associated kinase 1	
AAMP	Angio-associated, migratory cell protein	
AARS	Alanyl-trna synthetase	
AARS2	Alanyl-trna synthetase 2, mitochondrial (putative)	
AARSD1	Alanyl-trna synthetase domain containing 1	
AASDHPPT	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	
AASS	Aminoadipate-semialdehyde synthase	
ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	
ABCA10	ATP-binding cassette, sub-family A (ABC1), member 10	
ABCA12	ATP-binding cassette, sub-family A (ABC1), member 12	
ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13	
ABCA2	ATP-binding cassette, sub-family A (ABC1), member 2	
ABCA3	ATP-binding cassette, sub-family A (ABC1), member 3	
ABCA4	ATP-binding cassette, sub-family A (ABC1), member 4	
ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5	
ABCA6	ATP-binding cassette, sub-family A (ABC1), member 6	
ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7	
ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	
ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	
ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	
ABCB11	ATP-binding cassette, sub-family B (MDR/TAP), member 11	
ABCB9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	
ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	
ABCC10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10	
ABCC11	ATP-binding cassette, sub-family C (CFTR/MRP), member 11	

ABCC12	ATP-binding cassette, sub-family C (CFTR/MRP), member 12	
ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	
ABCC4	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	
ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	
ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6	
ABCC8	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	
ABCG4	ATP-binding cassette, sub-family G (WHITE), member 4	
ABCG5	ATP-binding cassette, sub-family G (WHITE), member 5	
ABHD10	Abhydrolase domain containing 10	
ABHD16A	Abhydrolase domain containing 16A	
ABHD3	Abhydrolase domain containing 3	
ABHD4	Abhydrolase domain containing 4	
ABI2	Abl-interactor 2	
ABL2	V-abl Abelson murine leukemia viral oncogene homolog 2	
ABLIM3	Actin binding LIM protein family, member 3	
ABR	Active BCR-related gene	
ABT1	Activator of basal transcription 1	
AC000120.1	cDNA FLJ56789	
AC002094.1	Vitronectinvitronectin V65 subunitvitronectin V10 subunitsomatomedin-B	
AC002511.1	Cdna FLJ46220 fis, clone TESTI4013774	
AC003682.1	Zinc finger protein 550	
AC004223.1	Cdna FLJ52625	
AC005324.8-001	Zinc finger protein 286A	
AC005522.1	Protein deltex-2	
AC005726.6	Uncharacterized serine/threonine-protein kinase sgk494	
AC006008.1	CDNA FLJ26529 fis, clone KDN08784	
AC006305.1	HCG2045177cDNA FLJ45743 fis, clone KIDNE2016464	
AC006372.1		
AC006449.1	Cdna FLJ52623	
AC007000.1	Coiled-coil domain-containing protein 146	
AC007390.5	HCG1988162Uncharacterized protein	

AC007608.1		
AC008073.5	Pre-mrna branch site protein p14	
AC008393.1	cDNA FLJ53540	
AC008403.1		
AC008522.1	HCG2016541Putative uncharacterized protein dkfzp434p228	
AC009053.1	cDNA FLJ39449 fis, clone PROST2008360, highly similar to Homo sapiens pyruvate dehydrogenase phosphatase regulatory subunit (PDPR), mRNA	
AC009113.2	cDNA FLJ27068 fis, clone SPL01475	
AC009123.1	cDNA FLJ38012 fis, clone CTONG2012554	
AC009955.1	Serine/threonine-protein kinase 11-interacting protein	
AC009996.1		
AC010198.1	Cdna FLJ75546	
AC010328.1	Envelope glycoprotein ENVV1	
AC010441.1	Putative small membrane protein NID67	
AC010536.1	HCG1980662	
AC010724.2	Golgin subfamily A member 6-like protein 9	
AC010724.3	Chondroitin sulfate proteoglycan 4 pseudogene (LOC440297), non-coding RNA	
AC010973.1	Autophagy-related protein 9B	
AC011295.1	Chondroitin sulfate proteoglycan 4 pseudogene (LOC440297), non-coding RNA	
AC011357.1	Serine/threonine-protein phosphatase 2A 55 kda regulatory subunit B beta isoform	
AC011443.1	Iron/zinc purple acid phosphatase-like protein	
AC011676.1	HCG2009400SLC45A4 protein	
AC012313.1	Hepatocellular carcinoma-associated antigen HCA25a	
AC012621.2	Centrosomal protein CP110	
AC012652.1	Calcium-binding protein p22	
AC013461.1	Mitogen-activated protein kinase kinase kinase MLT	
AC013480.1	cDNA FLJ42903 fis, clone BRHIP3013765	
AC016889.1	cDNA FLJ50764	
AC020907.1	Uncharacterized protein	
AC021860.1		

AC022148.1		
AC024909.1	Cdna FLJ42271 fis, clone TKIDN2015788	
AC025287.3	cDNA FLJ58921	
AC026495.1	cDNA FLJ60245, highly similar to HECT domain and RCC1-like domain-containing protein 2	
AC027125.1	ELL-associated factor 1	
AC027323.1	Lysm and putative peptidoglycan-binding domain-containing protein 3	
AC044799.1	cDNA FLJ56854	
AC044860.3	Golgin subfamily A member 2-like protein 2	
AC051642.1		
AC051642.2	HCG1786243PRO1496	
AC067745.1	Maxi-K channel HSLO	
AC067815.1	cDNA FLJ23789 fis, clone HEP21465	
AC068775.1	Uncharacterized protein	
AC073610.1	cDNA, FLJ78869	
AC074389.6		
AC078953.1		
AC079612.1	cDNA FLJ45964 fis, clone PLACE7014396	
AC087289.1	cDNA FLJ40144 fis, clone TESTI2013012	
AC091565.1		
AC092117.1	cDNA FLJ43818 fis, clone TESTI4001923	
AC092118.1		
AC092135.1	C-Maf-inducing protein	
AC092329.1	HCG2000535cDNA FLJ32177 fis, clone PLACE6001294	
AC092384.1	Cdna FLJ26728 fis, clone PNC06635	
AC092723.1	HCG1980276MUSP1	
AC093726.6	HCG1999107Uncharacterized protein	
AC099759.1	STEAP family protein MGC87042	
AC103588.1	HCG1813935Uncharacterized protein	
AC104304.1	Putative teratocarcinoma-derived growth factor 2	
AC104523.1	cDNA FLJ46230 fis, clone TESTI4014977	
AC104650.1	SH3 domain and tetratricopeptide repeats-containing protein 1	
AC106772.1	CDNA FLJ20413 fis, clone KAT02170HCG1742967	

AC107373.2	cDNA FLJ53524	
AC107992.1	cDNA FLJ46325 fis, clone TESTI4043371	
AC108134.1		
AC110491.1	cDNA FLJ60082, weakly similar to Uro-adherence factor A	
AC111170.2	cDNA FLJ40589 fis, clone THYMU2009596	
AC111177.1	HCG2044188Seven transmembrane helix receptor	
AC114772.1	Uncharacterized protein FLJ45252	
AC114947.1	Serine/threonine-protein kinase NIM1	
AC116655.1		
AC120045.3	cDNA FLJ52611	
AC129778.2	cDNA FLJ44869 fis, clone BRAMY2015516	
AC130352.1	cDNA FLJ26472 fis, clone KDN04506	
AC131180.1	Uncharacterized protein c2orf14	
AC132186.2	CDNA FLJ27243 fis, clone SYN08134	
AC135995.1	Chondroitin sulfate proteoglycan 4 pseudogene (LOC440297), non-coding RNA	
AC139426.2	Cdna FLJ52611 [Source:uniprotkb/trembl;Acc:B4DXX6]	
AC140481.1		
AC145123.1	Jerky protein homolog isoform b	
AC145625.1		
AC217773.1		
ACACA	Acetyl-coa carboxylase alpha	
ACAD8	Acyl-coa dehydrogenase family, member 8	
ACAD9	Acyl-coa dehydrogenase family, member 9	
ACADS	Acyl-coa dehydrogenase, C-2 to C-3 short chain	
ACADSB	Acyl-coa dehydrogenase, short/branched chain	
ACAN	Aggrecan	
ACAP1	Arfgap with coiled-coil, ankyrin repeat and PH domains 1	
ACAP2	Arfgap with coiled-coil, ankyrin repeat and PH domains 2	
ACAT1	Acetyl-coa acetyltransferase 1	
ACBD5	Acyl-coa binding domain containing 5	
ACCN1	Amiloride-sensitive cation channel 1, neuronal	
ACCN3	Amiloride-sensitive cation channel 3	

ACER3	Alkaline ceramidase 3	
ACLY	ATP citrate lyase	
ACO1	Aconitase 1, soluble	
ACOT11	Acyl-coa thioesterase 11	
ACOX1	Acyl-coa oxidase 1, palmitoyl	
ACP2	Acid phosphatase 2, lysosomal	
ACP6	Acid phosphatase 6, lysophosphatidic	
ACRC	Acidic repeat containing	
ACRV1	Acrosomal vesicle protein 1	
ACSBG1	Acyl-CoA synthetase bubblegum family member 1	
ACSF3	Acyl-CoA synthetase family member 3	
ACSL1	Acyl-CoA synthetase long-chain family member 1	
ACSL6	Acyl-CoA synthetase long-chain family member 6	
ACSM3	Acyl-CoA synthetase medium-chain family member 3	
ACSM5	Acyl-CoA synthetase medium-chain family member 5	
ACSS1	Acyl-CoA synthetase short-chain family member 1	
ACSS2	Acyl-CoA synthetase short-chain family member 2	
ACTG1	Actin, gamma 1	
ACTL6A	Actin-like 6A	
ACTN2	Actinin, alpha 2	
ACTN4	Actinin, alpha 4	
ACTR3	ARP3 actin-related protein 3 homolog (yeast)	
ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)	
ACTR6	ARP6 actin-related protein 6 homolog (yeast)	
ACTRT2	Actin-related protein T2	
ACVR1	Activin A receptor, type I	
ACVR1B	Activin A receptor, type IB	
ACVR2A	Activin A receptor, type IIA	
AD000671.1	Histone-lysine N-methyltransferase MLL4	
AD000685.1	Leukotriene-B(4) omega-hydroxylase 2	
AD001527.1	Putative transcription factor Ovo-like 2-like	
ADAD1	Adenosine deaminase domain containing 1 (testis-specific)	
ADAL	Adenosine deaminase-like	

ADAM10	ADAM metallopeptidase domain 10	
ADAM12	ADAM metallopeptidase domain 12	
ADAM15	ADAM metallopeptidase domain 15	
ADAM22	ADAM metallopeptidase domain 22	
ADAM29	ADAM metallopeptidase domain 29	
ADAM30	ADAM metallopeptidase domain 30	
ADAM32	ADAM metallopeptidase domain 32	
ADAM33	ADAM metallopeptidase domain 33	
ADAM7	ADAM metallopeptidase domain 7	
ADAM9	ADAM metallopeptidase domain 9	
ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif, 1	
ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif, 10	
ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif, 12	
ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif, 16	
ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif, 17 [Source:HGNC Symbol;Acc:17109]	
ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18	
ADAMTS20	ADAM metallopeptidase with thrombospondin type 1 motif, 20	
ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	
ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5	
ADAMTS7	ADAM metallopeptidase with thrombospondin type 1 motif, 7	
ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9	
ADAMTSL1	ADAMTS-like 1	
ADAMTSL2	ADAMTS-like 2	
ADAMTSL4	ADAMTS-like 4	
ADARB1	Adenosine deaminase, RNA-specific, B1	
ADARB2	Adenosine deaminase, RNA-specific, B2	
ADAT1	Adenosine deaminase, trna-specific 1	
ADC	Arginine decarboxylase	
ADCK2	Aarf domain containing kinase 2	
ADCK3	Aarf domain containing kinase 3	
ADCK4	Aarf domain containing kinase 4	
ADCK5	Aarf domain containing kinase 5	

ADCY1	Adenylate cyclase 1 (brain)	
ADCY10	Adenylate cyclase 10 (soluble)	
ADCY2	Adenylate cyclase 2 (brain)	
ADCY4	Adenylate cyclase 4	
ADCY5	Adenylate cyclase 5	
ADCY6	Adenylate cyclase 6	
ADCY7	Adenylate cyclase 7	
ADCY9	Adenylate cyclase 9	
ADCYAP1R1	Adenylate cyclase activating polypeptide 1 (pituitary) receptor type I	
ADD2	Adducin 2 (beta)	
ADH1A	Alcohol dehydrogenase 1A (class I), alpha polypeptide	
ADH6	Alcohol dehydrogenase 6 (class V)	
ADH7	Alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	
ADHFE1	Alcohol dehydrogenase, iron containing, 1	
ADIPOR1	Adiponectin receptor 1	
ADNP	Activity-dependent neuroprotector homeobox	
ADNP2	ADNP homeobox 2	
ADORA2B	Adenosine A2b receptor	
ADORA3	Adenosine A3 receptor	
ADPGK	ADP-dependent glucokinase	
ADRA1A	Adrenergic, alpha-1A-, receptor	
ADRA1B	Adrenergic, alpha-1B-, receptor	
ADRA1D	Adrenergic, alpha-1D-, receptor	
ADRB2	Adrenergic, beta-2-, receptor, surface	
ADRBK2	Adrenergic, beta, receptor kinase 2	
ADSSL1	Adenylosuccinate synthase like 1	
AEBP1	AE binding protein 1	
AES	Amino-terminal enhancer of split	
AFAP1	Actin filament associated protein 1	
AFAP1L1	Actin filament associated protein 1-like 1	
AFAP1L2	Actin filament associated protein 1-like 2	
AFF3	AF4/FMR2 family, member 3	
AFG3L2	AFG3 atpase family gene 3-like 2 (*S. Cerevisiae*)	

AGAP1	Arfgap with gtpase domain, ankyrin repeat and PH domain 1	
AGAP2	Arfgap with gtpase domain, ankyrin repeat and PH domain 2	
AGAP9	Arfgap with gtpase domain, ankyrin repeat and PH domain 9	
AGBL2	ATP/GTP binding protein-like 2	
AGER	Advanced glycosylation end product-specific receptor	
AGFG2	Arfgap with FG repeats 2	
AGGF1	Angiogenic factor with G patch and FHA domains 1	
AGMAT	Agmatine ureohydrolase (agmatinase)	
AGMO	Alkylglycerol monooxygenase	
AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)	
AGPAT4	1-Acylglycerol-3-phosphate *O* -acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)	
AGPAT5	1-Acylglycerol-3-phosphate *O* -acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	
AGPAT9	1-Acylglycerol-3-phosphate *O* -acyltransferase 9	
AGPHD1	Aminoglycoside phosphotransferase domain containing 1	
AGRN	Agrin	
AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	
AGTR1	Angiotensin II receptor, type 1	
AGTRAP	Angiotensin II receptor-associated protein	
AGXT	Alanine-glyoxylate aminotransferase	
AHCTF1	AT hook containing transcription factor 1	
AHCY	Adenosylhomocysteinase	
AHCYL1	Adenosylhomocysteinase-like 1	
AHNAK	AHNAK nucleoprotein	
AHNAK2	AHNAK nucleoprotein 2	
AHR	Aryl hydrocarbon receptor	
AHSA2	AHA1, activator of heat shock 90kda protein atpase homolog 2 (yeast)	
AIFM2	Apoptosis-inducing factor, mitochondrion-associated, 2	
AIG1	Androgen-induced 1	
AIM1L	Absent in melanoma 1-like	
AIMP2	Aminoacyl trna synthetase complex-interacting multifunctional protein 2	

AIP	Aryl hydrocarbon receptor interacting protein	
AIRE	Autoimmune regulator	
AJAP1	Adherens junctions associated protein 1	
AK1	Adenylate kinase 1	
AK7	Adenylate kinase 7	
AKAP1	A kinase (PRKA) anchor protein 1	
AKAP11	A kinase (PRKA) anchor protein 11	
AKAP12	A kinase (PRKA) anchor protein 12	
AKAP13	A kinase (PRKA) anchor protein 13	
AKAP2	A kinase (PRKA) anchor protein 2	
AKAP4	A kinase (PRKA) anchor protein 4	
AKAP6	A kinase (PRKA) anchor protein 6	
AKAP8L	A kinase (PRKA) anchor protein 8-like	
AKAP9	A kinase (PRKA) anchor protein (yotiao) 9	√
AKR1B1	Aldo-keto reductase family 1, member B1 (aldose reductase)	
AKR1D1	Aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)	
AKR7L	Aldo-keto reductase family 7-like	
AKT3	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	
AKTIP	AKT interacting protein	
AL022341.2	cDNA FLJ59058	
AL033381.1	cDNA FLJ34594 fis, clone KIDNE2009109	
AL049840.1	cDNA FLJ53535	
AL078585.1	cDNA FLJ58069	
AL117190.3	cDNA FLJ42589 fis, clone BRACE3009701	
AL121595.1		
AL122001.2	NOL1/NOP2/Sun domain family member 4	
AL133216.1		
AL137145.1		
AL139010.1	HCG1995134cDNA FLJ33235 fis, clone ASTRO2002202	
AL139300.1	UPF0671 protein c14orf153	
AL157996.1	UPF0639 protein	
AL162407.1	CDNA FLJ20147 fis, clone COL07954HCG1781466	

AL353597.1		
AL353996.1		
AL354898.1	Hemicentin-2	
AL355149.1		
AL356356.1		
AL358216.1	CDNA FLJ26714 fis, clone PNC01043 [Source:uniprotkb/trembl;Acc:Q6ZP19]	
AL359075.1	Protein transport protein Sec16B	
AL359195.1	Cdna FLJ46261 fis, clone TESTI4025062	
AL359266.1		
AL359644.2	Inactive N-acetyllactosaminide alpha-1,3-galactosyltransferase	
AL359853.4	Torsin-1A-interacting protein 2	
AL360181.1	Mitochondrial gtpase 1	
AL390816.1	UPF0730 protein CS0DE013YM09	
AL391277.1	Cdna FLJ10894 fis, clone NT2RP4002888, highly similar to Homo sapiens mrna; cdna dkfzp434f172	
AL442069.1	Cdna FLJ43764 fis, clone TESTI2048898	
AL445163.2	CDNA FLJ26873 fis, clone PRS08805 [Source:uniprotkb/trembl;Acc:Q6ZNY8]	
AL450307.1	Cdna FLJ46300 fis, clone TESTI4035989 [Source:uniprotkb/trembl;Acc:Q6ZRK0]	
AL669970.1		
AL683812.1	CDNA FLJ25733 fis, clone TST05652 [Source:uniprotkb/trembl;Acc:Q8N7E4]	
ALAD	Aminolevulinate dehydratase [Source:HGNC Symbol;Acc:395]	
ALAS1	Aminolevulinate, delta-, synthase 1 [Source:HGNC Symbol;Acc:396]	
ALDH1A1	Aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:402]	
ALDH1A2	Aldehyde dehydrogenase 1 family, member A2 [Source:HGNC Symbol;Acc:15472]	
ALDH1A3	Aldehyde dehydrogenase 1 family, member A3 [Source:HGNC Symbol;Acc:409]	

ALDH1B1	Aldehyde dehydrogenase 1 family, member B1 [Source:HGNC Symbol;Acc:407]	
ALDH1L2	Aldehyde dehydrogenase 1 family, member L2 [Source:HGNC Symbol;Acc:26777]	
ALDH3A2	Aldehyde dehydrogenase 3 family, member A2 [Source:HGNC Symbol;Acc:403]	
ALDH6A1	Aldehyde dehydrogenase 6 family, member A1 [Source:HGNC Symbol;Acc:7179]	
ALDH7A1	Aldehyde dehydrogenase 7 family, member A1 [Source:HGNC Symbol;Acc:877]	
ALDH8A1	Aldehyde dehydrogenase 8 family, member A1 [Source:HGNC Symbol;Acc:15471]	
ALDH9A1	Aldehyde dehydrogenase 9 family, member A1 [Source:HGNC Symbol;Acc:412]	
ALDOA	Aldolase A, fructose-bisphosphate [Source:HGNC Symbol;Acc:414]	
ALG10B	Asparagine-linked glycosylation 10, alpha-1,2-glucosyltransferase homolog B (yeast) [Source:HGNC Symbol;Acc:31088]	
ALG13	Asparagine-linked glycosylation 13 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:30881]	
ALMS1	Alstrom syndrome 1 [Source:HGNC Symbol;Acc:428]	
ALPK1	Alpha-kinase 1 [Source:HGNC Symbol;Acc:20917]	
ALPK3	Alpha-kinase 3 [Source:HGNC Symbol;Acc:17574]	
ALS2CL	ALS2 C-terminal like [Source:HGNC Symbol;Acc:20605]	
ALS2CR11	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11 [Source:HGNC Symbol;Acc:14438]	
ALS2CR4	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 4 [Source:HGNC Symbol;Acc:14432]	
ALS2CR8	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8 [Source:HGNC Symbol;Acc:14435]	
ALX4	ALX homeobox 4 [Source:HGNC Symbol;Acc:450]	
AMAC1	Acyl-malonyl condensing enzyme 1 [Source:HGNC Symbol;Acc:26848]	
AMAC1L2	Acyl-malonyl condensing enzyme 1-like 2 [Source:HGNC Symbol;Acc:15546]	

AMBP	Alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:453]	
AMBRA1	Autophagy/beclin-1 regulator 1 [Source:HGNC Symbol;Acc:25990]	
AMD1	Adenosylmethionine decarboxylase 1 [Source:HGNC Symbol;Acc:457]	
AMFR	Autocrine motility factor receptor [Source:HGNC Symbol;Acc:463]	
AMHR2	Anti-Mullerian hormone receptor, type II [Source:HGNC Symbol;Acc:465]	
AMICA1	Adhesion molecule, interacts with CXADR antigen 1 [Source:HGNC Symbol;Acc:19084]	
AMIGO3	Adhesion molecule with Ig-like domain 3 [Source:HGNC Symbol;Acc:24075]	
AMN	Amnionless homolog (mouse) [Source:HGNC Symbol;Acc:14604]	
AMOT	Angiomotin [Source:HGNC Symbol;Acc:17810]	
AMOTL1	Angiomotin like 1 [Source:HGNC Symbol;Acc:17811]	
AMPD2	Adenosine monophosphate deaminase 2 [Source:HGNC Symbol;Acc:469]	
AMPD3	Adenosine monophosphate deaminase 3 [Source:HGNC Symbol;Acc:470]	
AMTN	Amelotin [Source:HGNC Symbol;Acc:33188]	
AMY1A	Amylase, alpha 1A (salivary) [Source:HGNC Symbol;Acc:474]	
AMY1B	Amylase, alpha 1B (salivary) [Source:HGNC Symbol;Acc:475]	
ANAPC1	Anaphase promoting complex subunit 1 [Source:HGNC Symbol;Acc:19988]	
ANAPC5	Anaphase promoting complex subunit 5 [Source:HGNC Symbol;Acc:15713]	
ANAPC7	Anaphase promoting complex subunit 7 [Source:HGNC Symbol;Acc:17380]	
ANGEL1	Angel homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19961]	
ANGEL2	Angel homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:30534]	
ANGPT4	Angiopoietin 4 [Source:HGNC Symbol;Acc:487]	
ANGPTL2	Angiopoietin-like 2 [Source:HGNC Symbol;Acc:490]	
ANK3	Ankyrin 3, node of Ranvier (ankyrin G) [Source:HGNC Symbol;Acc:494]	
ANKDD1A	Ankyrin repeat and death domain containing 1A [Source:HGNC Symbol;Acc:28002]	
ANKFY1	Ankyrin repeat and FYVE domain containing 1 [Source:HGNC Symbol;Acc:20763]	
ANKH	Ankylosis, progressive homolog (mouse) [Source:HGNC Symbol;Acc:15492]	
ANKHD1	Ankyrin repeat and KH domain containing 1 [Source:HGNC Symbol;Acc:24714]	

ANKLE2	Ankyrin repeat and LEM domain containing 2 [Source:HGNC Symbol;Acc:29101]	
ANKMY1	Ankyrin repeat and MYND domain containing 1 [Source:HGNC Symbol;Acc:20987]	
ANKMY2	Ankyrin repeat and MYND domain containing 2 [Source:HGNC Symbol;Acc:25370]	
ANKRD10	Ankyrin repeat domain 10 [Source:HGNC Symbol;Acc:20265]	
ANKRD11	Ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:21316]	
ANKRD12	Ankyrin repeat domain 12 [Source:HGNC Symbol;Acc:29135]	
ANKRD17	Ankyrin repeat domain 17 [Source:HGNC Symbol;Acc:23575]	
ANKRD18A	Ankyrin repeat domain 18A [Source:HGNC Symbol;Acc:23643]	
ANKRD18B	Ankyrin repeat domain 18B [Source:HGNC Symbol;Acc:23644]	
ANKRD20A3	Ankyrin repeat domain 20 family, member A3 [Source:HGNC Symbol;Acc:31981]	
ANKRD20A4	Ankyrin repeat domain 20 family, member A4 [Source:HGNC Symbol;Acc:31982]	
ANKRD22	Ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:28321]	
ANKRD26	Ankyrin repeat domain 26 [Source:HGNC Symbol;Acc:29186]	
ANKRD28	Ankyrin repeat domain 28 [Source:HGNC Symbol;Acc:29024]	
ANKRD29	Ankyrin repeat domain 29 [Source:HGNC Symbol;Acc:27110]	
ANKRD30B	Ankyrin repeat domain 30B [Source:HGNC Symbol;Acc:24165]	
ANKRD31	Ankyrin repeat domain 31 [Source:HGNC Symbol;Acc:26853]	
ANKRD34B	Ankyrin repeat domain 34B [Source:HGNC Symbol;Acc:33736]	
ANKRD37	Ankyrin repeat domain 37 [Source:HGNC Symbol;Acc:29593]	
ANKRD40	Ankyrin repeat domain 40 [Source:HGNC Symbol;Acc:28233]	
ANKRD43	Ankyrin repeat domain 43 [Source:HGNC Symbol;Acc:27033]	
ANKRD49	Ankyrin repeat domain 49 [Source:HGNC Symbol;Acc:25970]	
ANKRD52	Ankyrin repeat domain 52 [Source:HGNC Symbol;Acc:26614]	
ANKRD53	Ankyrin repeat domain 53 [Source:HGNC Symbol;Acc:25691]	
ANKRD57	Ankyrin repeat domain 57 [Source:HGNC Symbol;Acc:26149]	
ANKS3	Ankyrin repeat and sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:29422]	

ANKS6	Ankyrin repeat and sterile alpha motif domain containing 6 [Source:HGNC Symbol;Acc:26724]	
ANO2	Anoctamin 2 [Source:HGNC Symbol;Acc:1183]	
ANO4	Anoctamin 4 [Source:HGNC Symbol;Acc:23837]	
ANO6	Anoctamin 6 [Source:HGNC Symbol;Acc:25240]	
ANO8	Anoctamin 8 [Source:HGNC Symbol;Acc:29329]	
ANTXR1	Anthrax toxin receptor 1 [Source:HGNC Symbol;Acc:21014]	
ANTXR2	Anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]	
ANXA11	Annexin A11 [Source:HGNC Symbol;Acc:535]	
ANXA2	Annexin A2 [Source:HGNC Symbol;Acc:537]	
ANXA5	Annexin A5 [Source:HGNC Symbol;Acc:543]	
ANXA8	Annexin A8 [Source:HGNC Symbol;Acc:546]	
ANXA8L1	Annexin A8-like 1 [Source:HGNC Symbol;Acc:23334]	
ANXA8L2	Annexin A8-like 2 [Source:HGNC Symbol;Acc:23335]	
AOAH	Acyloxyacyl hydrolase (neutrophil) [Source:HGNC Symbol;Acc:548]	
AOC2	Amine oxidase, copper containing 2 (retina-specific) [Source:HGNC Symbol;Acc:549]	
AOX1	Aldehyde oxidase 1 [Source:HGNC Symbol;Acc:553]	
AP000708.1		
AP000859.2	HCG2033177cDNA FLJ30908 fis, clone FEBRA2006150 [Source:uniprotkb/trembl;Acc:Q96NH1]	
AP000907.1	Heat shock protein beta-2 [Source:uniprotkb/Swiss-Prot;Acc:Q16082]	
AP001046.1	Uncharacterized protein c21orf136 [Source:uniprotkb/Swiss-Prot;Acc:Q6ZN03]	
AP001781.2	Ferredoxin-fold anticodon-binding domain-containing protein 1 [Source:uniprotkb/Swiss-Prot;Acc:Q9BRP7]	
AP002986.1	Cdna FLJ41054 fis, clone STOMA1000189 [Source:uniprotkb/trembl;Acc:Q6ZWH7]	
AP003774.4	HCG1652096, isoform CRA_acdna FLJ37045 fis, clone BRACE2012185 [Source:uniprotkb/trembl;Acc:Q8N9J4]	
AP1B1	Adaptor-related protein complex 1, beta 1 subunit [Source:HGNC Symbol;Acc:554]	

AP1G1	Adaptor-related protein complex 1, gamma 1 subunit [Source:HGNC Symbol;Acc:555]	
AP1S2	Adaptor-related protein complex 1, sigma 2 subunit [Source:HGNC Symbol;Acc:560]	
AP2A2	Adaptor-related protein complex 2, alpha 2 subunit [Source:HGNC Symbol;Acc:562]	
AP3B1	Adaptor-related protein complex 3, beta 1 subunit [Source:HGNC Symbol;Acc:566]	
AP3M1	Adaptor-related protein complex 3, mu 1 subunit [Source:HGNC Symbol;Acc:569]	
AP3M2	Adaptor-related protein complex 3, mu 2 subunit [Source:HGNC Symbol;Acc:570]	
AP3S2	Adaptor-related protein complex 3, sigma 2 subunit [Source:HGNC Symbol;Acc:571]	
AP4E1	Adaptor-related protein complex 4, epsilon 1 subunit [Source:HGNC Symbol;Acc:573]	
APBB1	Amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65) [Source:HGNC Symbol;Acc:581]	
APCDD1	Adenomatosis polyposis coli down-regulated 1 [Source:HGNC Symbol;Acc:15718]	
APCDD1L	Adenomatosis polyposis coli down-regulated 1-like [Source:HGNC Symbol;Acc:26892]	
APCS	Amyloid P component, serum [Source:HGNC Symbol;Acc:584]	
APEX2	APEX nuclease (apurinic/apyrimidinic endonuclease) 2 [Source:HGNC Symbol;Acc:17889]	
APIP	APAF1 interacting protein [Source:HGNC Symbol;Acc:17581]	
APLF	Aprataxin and PNKP like factor [Source:HGNC Symbol;Acc:28724]	
APLN	Apelin [Source:HGNC Symbol;Acc:16665]	
APLP1	Amyloid beta (A4) precursor-like protein 1 [Source:HGNC Symbol;Acc:597]	
APLP2	Amyloid beta (A4) precursor-like protein 2 [Source:HGNC Symbol;Acc:598]	
APOA1	Apolipoprotein A-I [Source:HGNC Symbol;Acc:600]	

APOA4	Apolipoprotein A-IV [Source:HGNC Symbol;Acc:602]	
APOB	Apolipoprotein B (including Ag(x) antigen) [Source:HGNC Symbol;Acc:603]	
APOBEC4	Apolipoprotein B mrna editing enzyme, catalytic polypeptide-like 4 (putative) [Source:HGNC Symbol;Acc:32152]	
APOH	Apolipoprotein H (beta-2-glycoprotein I) [Source:HGNC Symbol;Acc:616]	
APOLD1	Apolipoprotein L domain containing 1 [Source:HGNC Symbol;Acc:25268]	
APOM	Apolipoprotein M [Source:HGNC Symbol;Acc:13916]	
APP	Amyloid beta (A4) precursor protein [Source:HGNC Symbol;Acc:620]	
APPBP2	Amyloid beta precursor protein (cytoplasmic tail) binding protein 2 [Source:HGNC Symbol;Acc:622]	
APPL1	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 [Source:HGNC Symbol;Acc:24035]	
APRT	Adenine phosphoribosyltransferase [Source:HGNC Symbol;Acc:626]	
APTX	Aprataxin [Source:HGNC Symbol;Acc:15984]	
AQP1	Aquaporin 1 (Colton blood group) [Source:HGNC Symbol;Acc:633]	
AQP10	Aquaporin 10 [Source:HGNC Symbol;Acc:16029]	
AQP2	Aquaporin 2 (collecting duct) [Source:HGNC Symbol;Acc:634]	
AQP8	Aquaporin 8 [Source:HGNC Symbol;Acc:642]	
AQP9	Aquaporin 9 [Source:HGNC Symbol;Acc:643]	
AQR	Aquarius homolog (mouse) [Source:HGNC Symbol;Acc:29513]	
AR	Androgen receptor [Source:HGNC Symbol;Acc:644]	
ARAP2	Arfgap with rhogap domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:16924]	
ARCN1	Archain 1 [Source:HGNC Symbol;Acc:649]	
ARF3	ADP-ribosylation factor 3 [Source:HGNC Symbol;Acc:654]	
ARFGAP1	ADP-ribosylation factor gtpase activating protein 1 [Source:HGNC Symbol;Acc:15852]	
ARFGAP3	ADP-ribosylation factor gtpase activating protein 3 [Source:HGNC Symbol;Acc:661]	
ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1(brefeldin A-inhibited) [Source:HGNC Symbol;Acc:15772]	

ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited) [Source:HGNC Symbol;Acc:15853]	
ARFRP1	ADP-ribosylation factor related protein 1 [Source:HGNC Symbol;Acc:662]	
ARHGAP1	Rho gtpase activating protein 1 [Source:HGNC Symbol;Acc:673]	
ARHGAP11A	Rho gtpase activating protein 11A [Source:HGNC Symbol;Acc:15783]	
ARHGAP18	Rho gtpase activating protein 18 [Source:HGNC Symbol;Acc:21035]	
ARHGAP19	Rho gtpase activating protein 19 [Source:HGNC Symbol;Acc:23724]	
ARHGAP25	Rho gtpase activating protein 25 [Source:HGNC Symbol;Acc:28951]	
ARHGAP26	Rho gtpase activating protein 26 [Source:HGNC Symbol;Acc:17073]	
ARHGAP29	Rho gtpase activating protein 29 [Source:HGNC Symbol;Acc:30207]	
ARHGAP31	Rho gtpase activating protein 31 [Source:HGNC Symbol;Acc:29216]	
ARHGAP32	Rho gtpase activating protein 32 [Source:HGNC Symbol;Acc:17399]	
ARHGAP39	Rho gtpase activating protein 39	
ARHGAP40	Rho gtpase activating protein 40	
ARHGAP44	Rho gtpase activating protein 44	
ARHGAP5	Rho gtpase activating protein 5	
ARHGAP6	Rho gtpase activating protein 6	
ARHGEF11	Rho guanine nucleotide exchange factor (GEF) 11	
ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12	√
ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17	
ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2	
ARHGEF37	Rho guanine nucleotide exchange factor (GEF) 37	
ARHGEF38	Rho guanine nucleotide exchange factor (GEF) 38	
ARHGEF4	Rho guanine nucleotide exchange factor (GEF) 4	
ARHGEF5	Rho guanine nucleotide exchange factor (GEF) 5 [Source:HGNC Symbol;Acc:13209]	
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7 [Source:HGNC Symbol;Acc:15607]	
ARID2	AT rich interactive domain 2 (ARID, RFX-like)	√
ARID3B	AT rich interactive domain 3B (BRIGHT-like) [Source:HGNC Symbol;Acc:14350]	
ARID4A	AT rich interactive domain 4A (RBP1-like) [Source:HGNC Symbol;Acc:9885]	

ARID4B	AT rich interactive domain 4B (RBP1-like) [Source:HGNC Symbol;Acc:15550]	
ARIH1	Ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila) [Source:HGNC Symbol;Acc:689]	
ARL1	ADP-ribosylation factor-like 1 [Source:HGNC Symbol;Acc:692]	
ARL10	ADP-ribosylation factor-like 10 [Source:HGNC Symbol;Acc:22042]	
ARL14	ADP-ribosylation factor-like 14 [Source:HGNC Symbol;Acc:22974]	
ARL15	ADP-ribosylation factor-like 15 [Source:HGNC Symbol;Acc:25945]	
ARL17A	ADP-ribosylation factor-like 17A [Source:HGNC Symbol;Acc:24096]	
ARL17B	ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc:32387]	
ARL2BP	ADP-ribosylation factor-like 2 binding protein [Source:HGNC Symbol;Acc:17146]	
ARL4C	ADP-ribosylation factor-like 4C [Source:HGNC Symbol;Acc:698]	
ARL4D	ADP-ribosylation factor-like 4D [Source:HGNC Symbol;Acc:656]	
ARL5A	ADP-ribosylation factor-like 5A [Source:HGNC Symbol;Acc:696]	
ARL8A	ADP-ribosylation factor-like 8A [Source:HGNC Symbol;Acc:25192]	
ARMC1	Armadillo repeat containing 1 [Source:HGNC Symbol;Acc:17684]	
ARMC10	Armadillo repeat containing 10 [Source:HGNC Symbol;Acc:21706]	
ARMC6	Armadillo repeat containing 6 [Source:HGNC Symbol;Acc:25049]	
ARMC7	Armadillo repeat containing 7 [Source:HGNC Symbol;Acc:26168]	
ARMC9	Armadillo repeat containing 9 [Source:HGNC Symbol;Acc:20730]	
ARMCX1	Armadillo repeat containing, X-linked 1 [Source:HGNC Symbol;Acc:18073]	
ARMCX4	Armadillo repeat containing, X-linked 4 [Source:HGNC Symbol;Acc:28615]	
ARNT	Aryl hydrocarbon receptor nuclear translocator	√
ARNT2	Aryl-hydrocarbon receptor nuclear translocator 2 [Source:HGNC Symbol;Acc:16876]	
ARPC1A	Actin related protein 2/3 complex, subunit 1A, 41kda [Source:HGNC Symbol;Acc:703]	
ARR3	Arrestin 3, retinal (X-arrestin) [Source:HGNC Symbol;Acc:710]	
ARRDC2	Arrestin domain containing 2 [Source:HGNC Symbol;Acc:25225]	
ARRDC5	Arrestin domain containing 5 [Source:HGNC Symbol;Acc:31407]	
ARSA	Arylsulfatase A [Source:HGNC Symbol;Acc:713]	
ARSI	Arylsulfatase family, member I [Source:HGNC Symbol;Acc:32521]	

ART3	ADP-ribosyltransferase 3 [Source:HGNC Symbol;Acc:725]	
ART4	ADP-ribosyltransferase 4 (Dombrock blood group) [Source:HGNC Symbol;Acc:726]	
ARV1	ARV1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29561]	
ARVCF	Armadillo repeat gene deleted in velocardiofacial syndrome [Source:HGNC Symbol;Acc:728]	
ASAH2	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2 [Source:HGNC Symbol;Acc:18860]	
ASAH2B	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2B [Source:HGNC Symbol;Acc:23456]	
ASAP2	Arfgap with SH3 domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:2721]	
ASB12	Ankyrin repeat and SOCS box containing 12 [Source:HGNC Symbol;Acc:19763]	
ASB13	Ankyrin repeat and SOCS box containing 13 [Source:HGNC Symbol;Acc:19765]	
ASB3	Ankyrin repeat and SOCS box containing 3 [Source:HGNC Symbol;Acc:16013]	
ASB4	Ankyrin repeat and SOCS box containing 4 [Source:HGNC Symbol;Acc:16009]	
ASB7	Ankyrin repeat and SOCS box containing 7 [Source:HGNC Symbol;Acc:17182]	
ASB8	Ankyrin repeat and SOCS box containing 8 [Source:HGNC Symbol;Acc:17183]	
ASCC2	Activating signal cointegrator 1 complex subunit 2 [Source:HGNC Symbol;Acc:24103]	
ASCC3	Activating signal cointegrator 1 complex subunit 3 [Source:HGNC Symbol;Acc:18697]	
ASH1L	Ash1 (absent, small, or homeotic)-like (Drosophila) [Source:HGNC Symbol;Acc:19088]	
ASMTL	Acetylserotonin O-methyltransferase-like [Source:HGNC Symbol;Acc:751]	
ASNA1	Arsa arsenite transporter, ATP-binding, homolog 1 (bacterial) [Source:HGNC Symbol;Acc:752]	

ASNSD1	Asparagine synthetase domain containing 1 [Source:HGNC Symbol;Acc:24910]	
ASPA	Aspartoacylase [Source:HGNC Symbol;Acc:756]	
ASPHD1	Aspartate beta-hydroxylase domain containing 1 [Source:HGNC Symbol;Acc:27380]	
ASPHD2	Aspartate beta-hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:30437]	
ASTN2	Astrotactin 2 [Source:HGNC Symbol;Acc:17021]	
ASXL1	Additional sex combs like 1 (Drosophila)	√
ASXL2	Additional sex combs like 2 (Drosophila) [Source:HGNC Symbol;Acc:23805]	
ATAD2	Atpase family, AAA domain containing 2 [Source:HGNC Symbol;Acc:30123]	
ATAD2B	Atpase family, AAA domain containing 2B [Source:HGNC Symbol;Acc:29230]	
ATAT1	Alpha tubulin acetyltransferase 1 [Source:HGNC Symbol;Acc:21186]	
ATCAY	Ataxia, cerebellar, Cayman type [Source:HGNC Symbol;Acc:779]	
ATE1	Arginyltransferase 1 [Source:HGNC Symbol;Acc:782]	
ATF4	Activating transcription factor 4 (tax-responsive enhancer element B67) [Source:HGNC Symbol;Acc:786]	
ATF6	Activating transcription factor 6 [Source:HGNC Symbol;Acc:791]	
ATF7	Activating transcription factor 7 [Source:HGNC Symbol;Acc:792]	
ATF7IP2	Activating transcription factor 7 interacting protein 2 [Source:HGNC Symbol;Acc:20397]	
ATG10	ATG10 autophagy related 10 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:20315]	
ATG12	ATG12 autophagy related 12 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:588]	
ATG16L1	ATG16 autophagy related 16-like 1 (S. Cerevisiae) [Source:HGNC Symbol;Acc:21498]	
ATG2A	ATG2 autophagy related 2 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:29028]	

ATG5	ATG5 autophagy related 5 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:589]	
ATG7	ATG7 autophagy related 7 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:16935]	
ATG9A	ATG9 autophagy related 9 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:22408]	
ATL2	Atlastin gtpase 2 [Source:HGNC Symbol;Acc:24047]	
ATL3	Atlastin gtpase 3 [Source:HGNC Symbol;Acc:24526]	
ATM	Ataxia telangiectasia mutated	√
ATM	Ataxia telangiectasia mutated [Source:HGNC Symbol;Acc:795]	
ATMIN	ATM interactor [Source:HGNC Symbol;Acc:29034]	
ATN1	Atrophin 1 [Source:HGNC Symbol;Acc:3033]	
ATOH7	Atonal homolog 7 (Drosophila) [Source:HGNC Symbol;Acc:13907]	
ATOX1	ATX1 antioxidant protein 1 homolog (yeast) [Source:HGNC Symbol;Acc:798]	
ATP10A	Atpase, class V, type 10A [Source:HGNC Symbol;Acc:13542]	
ATP10B	Atpase, class V, type 10B [Source:HGNC Symbol;Acc:13543]	
ATP11A	Atpase, class VI, type 11A [Source:HGNC Symbol;Acc:13552]	
ATP11B	Atpase, class VI, type 11B [Source:HGNC Symbol;Acc:13553]	
ATP11C	Atpase, class VI, type 11C [Source:HGNC Symbol;Acc:13554]	
ATP12A	Atpase, H+/K+ transporting, nongastric, alpha polypeptide [Source:HGNC Symbol;Acc:13816]	
ATP13A2	Atpase type 13A2 [Source:HGNC Symbol;Acc:30213]	
ATP13A3	Atpase type 13A3 [Source:HGNC Symbol;Acc:24113]	
ATP13A4	Atpase type 13A4 [Source:HGNC Symbol;Acc:25422]	
ATP13A5	Atpase type 13A5 [Source:HGNC Symbol;Acc:31789]	
ATP1A1	ATPase, Na^+/K^+ transporting, α1 polypeptide	√
ATP1A2	Atpase, Na+/K+ transporting, alpha 2 polypeptide [Source:HGNC Symbol;Acc:800]	
ATP1A4	Atpase, Na+/K+ transporting, alpha 4 polypeptide [Source:HGNC Symbol;Acc:14073]	

ATP1B2	Atpase, Na+/K+ transporting, beta 2 polypeptide [Source:HGNC Symbol;Acc:805]	
ATP2A1	Atpase, Ca++ transporting, cardiac muscle, fast twitch 1 [Source:HGNC Symbol;Acc:811]	
ATP2A2	Atpase, Ca++ transporting, cardiac muscle, slow twitch 2 [Source:HGNC Symbol;Acc:812]	
ATP2B1	Atpase, Ca++ transporting, plasma membrane 1 [Source:HGNC Symbol;Acc:814]	
ATP2C1	Atpase, Ca++ transporting, type 2C, member 1 [Source:HGNC Symbol;Acc:13211]	
ATP4A	Atpase, H+/K+ exchanging, alpha polypeptide [Source:HGNC Symbol;Acc:819]	
ATP5B	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide [Source:HGNC Symbol;Acc:830]	
ATP5E	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit [Source:HGNC Symbol;Acc:838]	
ATP5F1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 [Source:HGNC Symbol;Acc:840]	
ATP5G3	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9) [Source:HGNC Symbol;Acc:843]	
ATP5L2	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit G2 [Source:HGNC Symbol;Acc:13213]	
ATP5SL	ATP5S-like [Source:HGNC Symbol;Acc:25496]	
ATP6AP1L	Atpase, H+ transporting, lysosomal accessory protein 1-like [Source:HGNC Symbol;Acc:28091]	
ATP6V0A1	Atpase, H+ transporting, lysosomal V0 subunit a1 [Source:HGNC Symbol;Acc:865]	
ATP6V0A2	Atpase, H+ transporting, lysosomal V0 subunit a2 [Source:HGNC Symbol;Acc:18481]	
ATP6V0E2	Atpase, H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:21723]	
ATP6V1D	Atpase, H+ transporting, lysosomal 34kda, V1 subunit D [Source:HGNC Symbol;Acc:13527]	

ATP6V1G2	Atpase, H+ transporting, lysosomal 13kda, V1 subunit G2 [Source:HGNC Symbol;Acc:862]	
ATP7B	Atpase, Cu++ transporting, beta polypeptide [Source:HGNC Symbol;Acc:870]	
ATP8A1	Atpase, aminophospholipid transporter (APLT), class I, type 8A, member 1 [Source:HGNC Symbol;Acc:13531]	
ATP8A2	Atpase, aminophospholipid transporter, class I, type 8A, member 2 [Source:HGNC Symbol;Acc:13533]	
ATP8B1	Atpase, aminophospholipid transporter, class I, type 8B, member 1 [Source:HGNC Symbol;Acc:3706]	
ATP9A	Atpase, class II, type 9A [Source:HGNC Symbol;Acc:13540]	
ATP9B	Atpase, class II, type 9B [Source:HGNC Symbol;Acc:13541]	
ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1 [Source:HGNC Symbol;Acc:18803]	
ATPAF2	ATP synthase mitochondrial F1 complex assembly factor 2 [Source:HGNC Symbol;Acc:18802]	
ATR	Ataxia telangiectasia and Rad3 related [Source:HGNC Symbol;Acc:882]	
ATRN	Attractin [Source:HGNC Symbol;Acc:885]	
ATRNL1	Attractin-like 1 [Source:HGNC Symbol;Acc:29063]	
ATRX	Alpha thalassemia/mental retardation syndrome X-linked	√
ATXN1	Ataxin 1 [Source:HGNC Symbol;Acc:10548]	
ATXN3	Ataxin 3 [Source:HGNC Symbol;Acc:7106]	
ATXN7	Ataxin 7 [Source:HGNC Symbol;Acc:10560]	
ATXN7L1	Ataxin 7-like 1 [Source:HGNC Symbol;Acc:22210]	
AUP1	Ancient ubiquitous protein 1 [Source:HGNC Symbol;Acc:891]	
AVL9	AVL9 homolog (S. Cerevisiase) [Source:HGNC Symbol;Acc:28994]	
AVPR2	Arginine vasopressin receptor 2 [Source:HGNC Symbol;Acc:897]	
AWAT2	Acyl-coa wax alcohol acyltransferase 2 [Source:HGNC Symbol;Acc:23251]	
AXIN1	Axin 1	√
AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:905]	
AZIN1	Antizyme inhibitor 1 [Source:HGNC Symbol;Acc:16432]	
B3GALNT1	Beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) [Source:HGNC Symbol;Acc:918]	

B3GALNT2	Beta-1,3-N-acetylgalactosaminyltransferase 2 [Source:HGNC Symbol;Acc:28596]	
B3GALT2	UDP-Gal:betaglcnac beta 1,3-galactosyltransferase, polypeptide 2 [Source:HGNC Symbol;Acc:917]	
B3GALT5	UDP-Gal:betaglcnac beta 1,3-galactosyltransferase, polypeptide 5 [Source:HGNC Symbol;Acc:920]	
B3GNT4	UDP-glcnac:betagal beta-1,3-N-acetylglucosaminyltransferase 4 [Source:HGNC Symbol;Acc:15683]	
B3GNT5	UDP-glcnac:betagal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:HGNC Symbol;Acc:15684]	
B3GNTL1	UDP-glcnac:betagal beta-1,3-N-acetylglucosaminyltransferase-like 1 [Source:HGNC Symbol;Acc:21727]	
B4GALT1	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 1 [Source:HGNC Symbol;Acc:924]	
B4GALT3	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 3 [Source:HGNC Symbol;Acc:926]	
B4GALT5	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 5 [Source:HGNC Symbol;Acc:928]	
B4GALT6	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 6 [Source:HGNC Symbol;Acc:929]	
B4GALT7	Xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I) [Source:HGNC Symbol;Acc:930]	
B9D2	B9 protein domain 2 [Source:HGNC Symbol;Acc:28636]	
BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1 [Source:HGNC Symbol;Acc:935]	
BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2 [Source:HGNC Symbol;Acc:14078]	
BAHD1	Bromo adjacent homology domain containing 1 [Source:HGNC Symbol;Acc:29153]	
BAI2	Brain-specific angiogenesis inhibitor 2 [Source:HGNC Symbol;Acc:944]	
BAI3	Brain-specific angiogenesis inhibitor 3 [Source:HGNC Symbol;Acc:945]	
BAIAP2	BAI1-associated protein 2 [Source:HGNC Symbol;Acc:947]	
BAK1	BCL2-antagonist/killer 1 [Source:HGNC Symbol;Acc:949]	

BANF1	Barrier to autointegration factor 1 [Source:HGNC Symbol;Acc:17397]	
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	√
BARD1	BRCA1 associated RING domain 1 [Source:HGNC Symbol;Acc:952]	
BARHL2	Barh-like homeobox 2 [Source:HGNC Symbol;Acc:954]	
BAZ1B	Bromodomain adjacent to zinc finger domain, 1B [Source:HGNC Symbol;Acc:961]	
BAZ2A	Bromodomain adjacent to zinc finger domain, 2A [Source:HGNC Symbol;Acc:962]	
BAZ2B	Bromodomain adjacent to zinc finger domain, 2B [Source:HGNC Symbol;Acc:963]	
BBOX1	Butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1 [Source:HGNC Symbol;Acc:964]	
BBS1	Bardet-Biedl syndrome 1 [Source:HGNC Symbol;Acc:966]	
BBS10	Bardet-Biedl syndrome 10 [Source:HGNC Symbol;Acc:26291]	
BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:26648]	
BBS5	Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:970]	
BBX	Bobby sox homolog (Drosophila) [Source:HGNC Symbol;Acc:14422]	
BCAN	Brevican [Source:HGNC Symbol;Acc:23059]	
BCAP29	B-cell receptor-associated protein 29 [Source:HGNC Symbol;Acc:24131]	
BCAR1	Breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:971]	
BCAS1	Breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:974]	
BCAS3	Breast carcinoma amplified sequence 3 [Source:HGNC Symbol;Acc:14347]	
BCAT1	Branched chain amino-acid transaminase 1, cytosolic [Source:HGNC Symbol;Acc:976]	
BCKDHB	Branched chain keto acid dehydrogenase E1, beta polypeptide [Source:HGNC Symbol;Acc:987]	
BCKDK	Branched chain ketoacid dehydrogenase kinase [Source:HGNC Symbol;Acc:16902]	
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	√
BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)	√
BCL2L1	BCL2-like 1 [Source:HGNC Symbol;Acc:992]	
BCL2L11	BCL2-like 11 (apoptosis facilitator) [Source:HGNC Symbol;Acc:994]	
BCL2L12	BCL2-like 12 (proline rich) [Source:HGNC Symbol;Acc:13787]	

BCL2L2	BCL2-like 2 [Source:HGNC Symbol;Acc:995]	
BCL3	B-cell CLL/lymphoma 3 [Source:HGNC Symbol;Acc:998]	√
BCL6	B-cell CLL/lymphoma 6 [Source:HGNC Symbol;Acc:1001]	√
BCL6B	B-cell CLL/lymphoma 6, member B [Source:HGNC Symbol;Acc:1002]	
BCL9L	B-cell CLL/lymphoma 9-like [Source:HGNC Symbol;Acc:23688]	
BCOR	BCL6 corepressor [Source:HGNC Symbol;Acc:20893]	√
BCR	Breakpoint cluster region	√
BCS1L	BCS1-like (S. Cerevisiae) [Source:HGNC Symbol;Acc:1020]	
BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB [Source:HGNC Symbol;Acc:13652]	
BEND2	BEN domain containing 2 [Source:HGNC Symbol;Acc:28509]	
BEND3	BEN domain containing 3 [Source:HGNC Symbol;Acc:23040]	
BEND4	BEN domain containing 4 [Source:HGNC Symbol;Acc:23815]	
BEND5	BEN domain containing 5 [Source:HGNC Symbol;Acc:25668]	
BEST2	Bestrophin 2 [Source:HGNC Symbol;Acc:17107]	
BEST3	Bestrophin 3 [Source:HGNC Symbol;Acc:17105]	
BEX2	Brain expressed X-linked 2 [Source:HGNC Symbol;Acc:30933]	
BFAR	Bifunctional apoptosis regulator [Source:HGNC Symbol;Acc:17613]	
BFSP2	Beaded filament structural protein 2, phakinin [Source:HGNC Symbol;Acc:1041]	
BHLHB9	Basic helix-loop-helix domain containing, class B, 9 [Source:HGNC Symbol;Acc:29353]	
BICC1	Bicaudal C homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19351]	
BICD2	Bicaudal D homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:17208]	
BIN1	Bridging integrator 1 [Source:HGNC Symbol;Acc:1052]	
BIRC6	Baculoviral IAP repeat containing 6 [Source:HGNC Symbol;Acc:13516]	
BIRC7	Baculoviral IAP repeat containing 7 [Source:HGNC Symbol;Acc:13702]	
BLM	Bloom syndrome, recq helicase-like	√
BLMH	Bleomycin hydrolase [Source:HGNC Symbol;Acc:1059]	
BLVRB	Biliverdin reductase B (flavin reductase (NADPH)) [Source:HGNC Symbol;Acc:1063]	
BMP1	Bone morphogenetic protein 1 [Source:HGNC Symbol;Acc:1067]	
BMP7	Bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1074]	

BMP8B	Bone morphogenetic protein 8b [Source:HGNC Symbol;Acc:1075]	
BMPER	BMP binding endothelial regulator [Source:HGNC Symbol;Acc:24154]	
BMPR1A	Bone morphogenetic protein receptor, type IA	√
BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase) [Source:HGNC Symbol;Acc:1078]	
BMS1	BMS1 homolog, ribosome assembly protein (yeast) [Source:HGNC Symbol;Acc:23505]	
BMX	BMX non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:1079]	
BNC2	Basonuclin 2 [Source:HGNC Symbol;Acc:30988]	
BNIP1	BCL2/adenovirus E1B 19kda interacting protein 1 [Source:HGNC Symbol;Acc:1082]	
BNIP2	BCL2/adenovirus E1B 19kda interacting protein 2 [Source:HGNC Symbol;Acc:1083]	
BNIPL	BCL2/adenovirus E1B 19kd interacting protein like [Source:HGNC Symbol;Acc:16976]	
BOK	BCL2-related ovarian killer [Source:HGNC Symbol;Acc:1087]	
BOLA2	Bola homolog 2 (E. Coli) [Source:HGNC Symbol;Acc:29488]	
BOLA2B	Bola homolog 2B (E. Coli) [Source:HGNC Symbol;Acc:32479]	
BOLL	Bol, boule-like (Drosophila) [Source:HGNC Symbol;Acc:14273]	
BOP1	Block of proliferation 1 [Source:HGNC Symbol;Acc:15519]	
BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:HGNC Symbol;Acc:1096]	
BPTF	Bromodomain PHD finger transcription factor [Source:HGNC Symbol;Acc:3581]	
BRAF	V-raf murine sarcoma viral oncogene homolog B1	√
BRAP	BRCA1 associated protein [Source:HGNC Symbol;Acc:1099]	
BRCA1	Breast cancer 1, early onset	√
BRCA2	Breast cancer 2, early onset [Source:HGNC Symbol;Acc:1101]	
BRD1	Bromodomain containing 1 [Source:HGNC Symbol;Acc:1102]	
BRD4	Bromodomain containing 4	√
BRD7	Bromodomain containing 7 [Source:HGNC Symbol;Acc:14310]	
BRD8	Bromodomain containing 8 [Source:HGNC Symbol;Acc:19874]	
BRF1	BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. Cerevisiae) [Source:HGNC Symbol;Acc:11551]	

BRPF1	Bromodomain and PHD finger containing, 1 [Source:HGNC Symbol;Acc:14255]	
BRS3	Bombesin-like receptor 3 [Source:HGNC Symbol;Acc:1113]	
BRWD1	Bromodomain and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:12760]	
BRWD3	Bromodomain and WD repeat domain containing 3 [Source:HGNC Symbol;Acc:17342]	
BSCL2	Berardinelli-Seip congenital lipodystrophy 2 (seipin) [Source:HGNC Symbol;Acc:15832]	
BSDC1	BSD domain containing 1 [Source:HGNC Symbol;Acc:25501]	
BSG	Basigin (Ok blood group) [Source:HGNC Symbol;Acc:1116]	
BSN	Bassoon (presynaptic cytomatrix protein) [Source:HGNC Symbol;Acc:1117]	
BSPRY	B-box and SPRY domain containing [Source:HGNC Symbol;Acc:18232]	
BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kda (Mot1 homolog, S. Cerevisiae) [Source:HGNC Symbol;Acc:17307]	
BTBD10	BTB (POZ) domain containing 10 [Source:HGNC Symbol;Acc:21445]	
BTBD11	BTB (POZ) domain containing 11 [Source:HGNC Symbol;Acc:23844]	
BTBD3	BTB (POZ) domain containing 3 [Source:HGNC Symbol;Acc:15854]	
BTBD6	BTB (POZ) domain containing 6 [Source:HGNC Symbol;Acc:19897]	
BTBD7	BTB (POZ) domain containing 7 [Source:HGNC Symbol;Acc:18269]	
BTBD8	BTB (POZ) domain containing 8 [Source:HGNC Symbol;Acc:21019]	
BTBD9	BTB (POZ) domain containing 9 [Source:HGNC Symbol;Acc:21228]	
BTD	Biotinidase [Source:HGNC Symbol;Acc:1122]	
BTG1	B-cell translocation gene 1, anti-proliferative	√
BTN3A1	Butyrophilin, subfamily 3, member A1 [Source:HGNC Symbol;Acc:1138]	
BTN3A2	Butyrophilin, subfamily 3, member A2 [Source:HGNC Symbol;Acc:1139]	
BTN3A3	Butyrophilin, subfamily 3, member A3 [Source:HGNC Symbol;Acc:1140]	
BTNL8	Butyrophilin-like 8 [Source:HGNC Symbol;Acc:26131]	
BTRC	Beta-transducin repeat containing [Source:HGNC Symbol;Acc:1144]	
BUB1B	Budding uninhibited by benzimidazoles 1 homolog beta (yeast) [Source:HGNC Symbol;Acc:1149]	√

BUB3	Budding uninhibited by benzimidazoles 3 homolog (yeast) [Source:HGNC Symbol;Acc:1151]	
BVES	Blood vessel epicardial substance [Source:HGNC Symbol;Acc:1152]	
BZW1	Basic leucine zipper and W2 domains 1 [Source:HGNC Symbol;Acc:18380]	
C10orf108	Chromosome 10 open reading frame 108 [Source:HGNC Symbol;Acc:30724]	
C10orf113	Chromosome 10 open reading frame 113 [Source:HGNC Symbol;Acc:31447]	
C10orf116	Chromosome 10 open reading frame 116 [Source:HGNC Symbol;Acc:24043]	
C10orf128	Chromosome 10 open reading frame 128 [Source:HGNC Symbol;Acc:27274]	
C10orf136	Chromosome 10 open reading frame 136 [Source:HGNC Symbol;Acc:31657]	
C10orf18	Chromosome 10 open reading frame 18 [Source:HGNC Symbol;Acc:23484]	
C10orf25	Chromosome 10 open reading frame 25 [Source:HGNC Symbol;Acc:23509]	
C10orf28	Chromosome 10 open reading frame 28 [Source:HGNC Symbol;Acc:23512]	
C10orf58	Chromosome 10 open reading frame 58 [Source:HGNC Symbol;Acc:28651]	
C10orf67	Chromosome 10 open reading frame 67 [Source:HGNC Symbol;Acc:28716]	
C10orf88	Chromosome 10 open reading frame 88 [Source:HGNC Symbol;Acc:25822]	
C10orf90	Chromosome 10 open reading frame 90 [Source:HGNC Symbol;Acc:26563]	
C10orf95	Chromosome 10 open reading frame 95 [Source:HGNC Symbol;Acc:25880]	
C10orf99	Chromosome 10 open reading frame 99 [Source:HGNC Symbol;Acc:31428]	

C11orf30	Chromosome 11 open reading frame 30 [Source:HGNC Symbol;Acc:18071]	
C11orf34	Chromosome 11 open reading frame 34 [Source:HGNC Symbol;Acc:30053]	
C11orf36	Chromosome 11 open reading frame 36 [Source:HGNC Symbol;Acc:26691]	
C11orf39	Chromosome 11 open reading frame 39 [Source:HGNC Symbol;Acc:32293]	
C11orf41	Chromosome 11 open reading frame 41 [Source:HGNC Symbol;Acc:24836]	
C11orf44	Chromosome 11 open reading frame 44 [Source:HGNC Symbol;Acc:26805]	
C11orf46	Chromosome 11 open reading frame 46 [Source:HGNC Symbol;Acc:26798]	
C11orf61	Chromosome 11 open reading frame 61 [Source:HGNC Symbol;Acc:26266]	
C11orf68	Chromosome 11 open reading frame 68 [Source:HGNC Symbol;Acc:28801]	
C11orf72	Chromosome 11 open reading frame 72 [Source:HGNC Symbol;Acc:26915]	
C11orf82	Chromosome 11 open reading frame 82 [Source:HGNC Symbol;Acc:26351]	
C11orf87	Chromosome 11 open reading frame 87 [Source:HGNC Symbol;Acc:33788]	
C11orf9	Chromosome 11 open reading frame 9 [Source:HGNC Symbol;Acc:1181]	
C11orf90	Chromosome 11 open reading frame 90 [Source:HGNC Symbol;Acc:34443]	
C12orf24	Chromosome 12 open reading frame 24 [Source:HGNC Symbol;Acc:30180]	
C12orf29	Chromosome 12 open reading frame 29 [Source:HGNC Symbol;Acc:25322]	
C12orf35	Chromosome 12 open reading frame 35 [Source:HGNC Symbol;Acc:25559]	

C12orf41	Chromosome 12 open reading frame 41 [Source:HGNC Symbol;Acc:26024]	
C12orf50	Chromosome 12 open reading frame 50 [Source:HGNC Symbol;Acc:26665]	
C12orf51	Chromosome 12 open reading frame 51 [Source:HGNC Symbol;Acc:26611]	
C12orf53	Chromosome 12 open reading frame 53 [Source:HGNC Symbol;Acc:25338]	
C12orf63	Chromosome 12 open reading frame 63 [Source:HGNC Symbol;Acc:24777]	
C12orf68	Chromosome 12 open reading frame 68 [Source:HGNC Symbol;Acc:33749]	
C12orf76	Chromosome 12 open reading frame 76 [Source:HGNC Symbol;Acc:33790]	
C13orf23	Chromosome 13 open reading frame 23 [Source:HGNC Symbol;Acc:20291]	
C13orf27	Chromosome 13 open reading frame 27 [Source:HGNC Symbol;Acc:25188]	
C13orf28	Chromosome 13 open reading frame 28 [Source:HGNC Symbol;Acc:29575]	
C13orf30	Chromosome 13 open reading frame 30 [Source:HGNC Symbol;Acc:26883]	
C13orf34	Chromosome 13 open reading frame 34 [Source:HGNC Symbol;Acc:24724]	
C13orf36	Chromosome 13 open reading frame 36 [Source:HGNC Symbol;Acc:33792]	
C13orf40	Chromosome 13 open reading frame 40 [Source:HGNC Symbol;Acc:26851]	
C14orf102	Chromosome 14 open reading frame 102 [Source:HGNC Symbol;Acc:20186]	
C14orf129	Chromosome 14 open reading frame 129 [Source:HGNC Symbol;Acc:20343]	

C14orf135	Chromosome 14 open reading frame 135 [Source:HGNC Symbol;Acc:20349]	
C14orf144	Chromosome 14 open reading frame 144 [Source:HGNC Symbol;Acc:20358]	
C14orf162	Chromosome 14 open reading frame 162 [Source:HGNC Symbol;Acc:23243]	
C14orf167	Chromosome 14 open reading frame 167 [Source:HGNC Symbol;Acc:23175]	
C14orf177	Chromosome 14 open reading frame 177 [Source:HGNC Symbol;Acc:26375]	
C14orf21	Chromosome 14 open reading frame 21 [Source:HGNC Symbol;Acc:19826]	
C14orf37	Chromosome 14 open reading frame 37 [Source:HGNC Symbol;Acc:19846]	
C14orf43	Chromosome 14 open reading frame 43 [Source:HGNC Symbol;Acc:19853]	
C14orf57	Chromosome 14 open reading frame 57 [Source:HGNC Symbol;Acc:20104]	
C15orf17	Chromosome 15 open reading frame 17 [Source:HGNC Symbol;Acc:24695]	
C15orf39	Chromosome 15 open reading frame 39 [Source:HGNC Symbol;Acc:24497]	
C15orf41	Chromosome 15 open reading frame 41 [Source:HGNC Symbol;Acc:26929]	
C15orf42	Chromosome 15 open reading frame 42 [Source:HGNC Symbol;Acc:28704]	
C15orf53	Chromosome 15 open reading frame 53 [Source:HGNC Symbol;Acc:33796]	
C15orf55	Chromosome 15 open reading frame 55	√
C15orf56	Chromosome 15 open reading frame 56 [Source:HGNC Symbol;Acc:33868]	
C16orf46	Chromosome 16 open reading frame 46 [Source:HGNC Symbol;Acc:26525]	

C16orf58	Chromosome 16 open reading frame 58 [Source:HGNC Symbol;Acc:25848]	
C16orf70	Chromosome 16 open reading frame 70 [Source:HGNC Symbol;Acc:29564]	
C16orf85	Chromosome 16 open reading frame 85 [Source:HGNC Symbol;Acc:33799]	
C16orf86	Chromosome 16 open reading frame 86 [Source:HGNC Symbol;Acc:33755]	
C17orf104	Chromosome 17 open reading frame 104 [Source:HGNC Symbol;Acc:26670]	
C17orf28	Chromosome 17 open reading frame 28 [Source:HGNC Symbol;Acc:15736]	
C17orf39	Chromosome 17 open reading frame 39 [Source:HGNC Symbol;Acc:28453]	
C17orf42	Chromosome 17 open reading frame 42 [Source:HGNC Symbol;Acc:26223]	
C17orf51	Chromosome 17 open reading frame 51 [Source:HGNC Symbol;Acc:27904]	
C17orf53	Chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:28460]	
C17orf57	Chromosome 17 open reading frame 57 [Source:HGNC Symbol;Acc:26864]	
C17orf59	Chromosome 17 open reading frame 59 [Source:HGNC Symbol;Acc:25939]	
C17orf63	Chromosome 17 open reading frame 63 [Source:HGNC Symbol;Acc:25563]	
C17orf70	Chromosome 17 open reading frame 70 [Source:HGNC Symbol;Acc:26171]	
C17orf72	Chromosome 17 open reading frame 72 [Source:HGNC Symbol;Acc:25673]	
C17orf85	Chromosome 17 open reading frame 85 [Source:HGNC Symbol;Acc:24612]	
C18orf1	Chromosome 18 open reading frame 1 [Source:HGNC Symbol;Acc:1224]	

C18orf19	Chromosome 18 open reading frame 19 [Source:HGNC Symbol;Acc:28346]	
C18orf34	Chromosome 18 open reading frame 34 [Source:HGNC Symbol;Acc:29588]	
C18orf45	Chromosome 18 open reading frame 45 [Source:HGNC Symbol;Acc:31723]	
C19orf18	Chromosome 19 open reading frame 18 [Source:HGNC Symbol;Acc:28642]	
C19orf25	Chromosome 19 open reading frame 25 [Source:HGNC Symbol;Acc:26711]	
C19orf28	Chromosome 19 open reading frame 28 [Source:HGNC Symbol;Acc:28299]	
C19orf29	Chromosome 19 open reading frame 29 [Source:HGNC Symbol;Acc:29938]	
C19orf38	Chromosome 19 open reading frame 38 [Source:HGNC Symbol;Acc:34073]	
C19orf44	Chromosome 19 open reading frame 44 [Source:HGNC Symbol;Acc:26141]	
C19orf47	Chromosome 19 open reading frame 47 [Source:HGNC Symbol;Acc:26723]	
C19orf51	Chromosome 19 open reading frame 51 [Source:HGNC Symbol;Acc:30492]	
C19orf54	Chromosome 19 open reading frame 54 [Source:HGNC Symbol;Acc:24758]	
C19orf59	Chromosome 19 open reading frame 59 [Source:HGNC Symbol;Acc:27291]	
C19orf63	Chromosome 19 open reading frame 63 [Source:HGNC Symbol;Acc:27609]	
C19orf75	Chromosome 19 open reading frame 75 [Source:HGNC Symbol;Acc:26856]	
C1D	C1D nuclear receptor corepressor [Source:HGNC Symbol;Acc:29911]	
C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1 [Source:HGNC Symbol;Acc:24337]	

C1orf115	Chromosome 1 open reading frame 115 [Source:HGNC Symbol;Acc:25873]	
C1orf116	Chromosome 1 open reading frame 116 [Source:HGNC Symbol;Acc:28667]	
C1orf129	Chromosome 1 open reading frame 129 [Source:HGNC Symbol;Acc:26287]	
C1orf131	Chromosome 1 open reading frame 131 [Source:HGNC Symbol;Acc:25332]	
C1orf132	Chromosome 1 open reading frame 132 [Source:HGNC Symbol;Acc:32018]	
C1orf135	Chromosome 1 open reading frame 135 [Source:HGNC Symbol;Acc:28363]	
C1orf158	Chromosome 1 open reading frame 158 [Source:HGNC Symbol;Acc:28567]	
C1orf167	Chromosome 1 open reading frame 167 [Source:HGNC Symbol;Acc:25262]	
C1orf168	Chromosome 1 open reading frame 168 [Source:HGNC Symbol;Acc:27295]	
C1orf170	Chromosome 1 open reading frame 170 [Source:HGNC Symbol;Acc:28208]	
C1orf183	Chromosome 1 open reading frame 183 [Source:HGNC Symbol;Acc:28045]	
C1orf185	Chromosome 1 open reading frame 185 [Source:HGNC Symbol;Acc:28096]	
C1orf187	Chromosome 1 open reading frame 187 [Source:HGNC Symbol;Acc:25054]	
C1orf190	Chromosome 1 open reading frame 190 [Source:HGNC Symbol;Acc:32327]	
C1orf21	Chromosome 1 open reading frame 21 [Source:HGNC Symbol;Acc:15494]	
C1orf216	Chromosome 1 open reading frame 216 [Source:HGNC Symbol;Acc:26800]	
C1orf222	Chromosome 1 open reading frame 222 [Source:HGNC Symbol;Acc:27917]	

C1orf226	Chromosome 1 open reading frame 226 [Source:HGNC Symbol;Acc:34351]	
C1orf49	Chromosome 1 open reading frame 49 [Source:HGNC Symbol;Acc:25366]	
C1orf53	Chromosome 1 open reading frame 53 [Source:HGNC Symbol;Acc:30003]	
C1orf54	Chromosome 1 open reading frame 54 [Source:HGNC Symbol;Acc:26258]	
C1orf55	Chromosome 1 open reading frame 55 [Source:HGNC Symbol;Acc:26643]	
C1orf68	Chromosome 1 open reading frame 68 [Source:HGNC Symbol;Acc:29468]	
C1orf69	Chromosome 1 open reading frame 69 [Source:HGNC Symbol;Acc:27302]	
C1orf74	Chromosome 1 open reading frame 74 [Source:HGNC Symbol;Acc:26319]	
C1orf77	Chromosome 1 open reading frame 77 [Source:HGNC Symbol;Acc:24511]	
C1orf86	Chromosome 1 open reading frame 86 [Source:HGNC Symbol;Acc:26428]	
C1orf88	Chromosome 1 open reading frame 88 [Source:HGNC Symbol;Acc:27009]	
C1orf95	Chromosome 1 open reading frame 95 [Source:HGNC Symbol;Acc:30491]	
C1QBP	Complement component 1, q subcomponent binding protein [Source:HGNC Symbol;Acc:1243]	
C1QTNF6	C1q and tumor necrosis factor related protein 6 [Source:HGNC Symbol;Acc:14343]	
C20orf106	Chromosome 20 open reading frame 106 [Source:HGNC Symbol;Acc:16100]	
C20orf107	Chromosome 20 open reading frame 107 [Source:HGNC Symbol;Acc:16101]	
C20orf11	Chromosome 20 open reading frame 11 [Source:HGNC Symbol;Acc:15857]	
C20orf111	Chromosome 20 open reading frame 111 [Source:HGNC Symbol;Acc:16105]	
C20orf12	Chromosome 20 open reading frame 12 [Source:HGNC Symbol;Acc:15858]	
C20orf152	Chromosome 20 open reading frame 152 [Source:HGNC Symbol;Acc:16145]	
C20orf181	Chromosome 20 open reading frame 181 [Source:HGNC Symbol;Acc:16174]	
C20orf185	Chromosome 20 open reading frame 185 [Source:HGNC Symbol;Acc:16178]	

C20orf194	Chromosome 20 open reading frame 194 [Source:HGNC Symbol;Acc:17721]	
C20orf29	Chromosome 20 open reading frame 29 [Source:HGNC Symbol;Acc:15875]	
C20orf4	Chromosome 20 open reading frame 4 [Source:HGNC Symbol;Acc:15886]	
C20orf71	Chromosome 20 open reading frame 71 [Source:HGNC Symbol;Acc:16204]	
C21orf2	Chromosome 21 open reading frame 2 [Source:HGNC Symbol;Acc:1260]	
C21orf33	Chromosome 21 open reading frame 33 [Source:HGNC Symbol;Acc:1273]	
C21orf37	Chromosome 21 open reading frame 37 [Source:HGNC Symbol;Acc:1277]	
C21orf58	Chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:1300]	
C21orf59	Chromosome 21 open reading frame 59 [Source:HGNC Symbol;Acc:1301]	
C21orf62	Chromosome 21 open reading frame 62 [Source:HGNC Symbol;Acc:1305]	
C21orf91	Chromosome 21 open reading frame 91 [Source:HGNC Symbol;Acc:16459]	
C22orf23	Chromosome 22 open reading frame 23 [Source:HGNC Symbol;Acc:18589]	
C22orf25	Chromosome 22 open reading frame 25 [Source:HGNC Symbol;Acc:25439]	
C22orf26	Chromosome 22 open reading frame 26 [Source:HGNC Symbol;Acc:25606]	
C22orf31	Chromosome 22 open reading frame 31 [Source:HGNC Symbol;Acc:26931]	
C22orf34	Chromosome 22 open reading frame 34 [Source:HGNC Symbol;Acc:28010]	
C22orf40	Chromosome 22 open reading frame 40 [Source:HGNC Symbol;Acc:33710]	
C22orf46	Chromosome 22 open reading frame 46 [Source:HGNC Symbol;Acc:26294]	
C2CD2	C2 calcium-dependent domain containing 2 [Source:HGNC Symbol;Acc:1266]	
C2CD3	C2 calcium-dependent domain containing 3 [Source:HGNC Symbol;Acc:24564]	

C2CD4A	C2 calcium-dependent domain containing 4A [Source:HGNC Symbol;Acc:33627]	
C2orf15	Chromosome 2 open reading frame 15 [Source:HGNC Symbol;Acc:28436]	
C2orf18	Chromosome 2 open reading frame 18 [Source:HGNC Symbol;Acc:26055]	
C2orf24	Chromosome 2 open reading frame 24 [Source:HGNC Symbol;Acc:25220]	
C2orf42	Chromosome 2 open reading frame 42 [Source:HGNC Symbol;Acc:26056]	
C2orf43	Chromosome 2 open reading frame 43 [Source:HGNC Symbol;Acc:26145]	
C2orf44	Chromosome 2 open reading frame 44	√
C2orf48	Chromosome 2 open reading frame 48 [Source:HGNC Symbol;Acc:26322]	
C2orf49	Chromosome 2 open reading frame 49 [Source:HGNC Symbol;Acc:28772]	
C2orf55	Chromosome 2 open reading frame 55 [Source:HGNC Symbol;Acc:33454]	
C2orf57	Chromosome 2 open reading frame 57 [Source:HGNC Symbol;Acc:28563]	
C2orf63	Chromosome 2 open reading frame 63 [Source:HGNC Symbol;Acc:26453]	
C2orf69	Chromosome 2 open reading frame 69 [Source:HGNC Symbol;Acc:26799]	
C2orf82	Chromosome 2 open reading frame 82 [Source:HGNC Symbol;Acc:33763]	
C2orf89	Chromosome 2 open reading frame 89 [Source:HGNC Symbol;Acc:27013]	
C3	Complement component 3 [Source:HGNC Symbol;Acc:1318]	
C3orf10	Chromosome 3 open reading frame 10 [Source:HGNC Symbol;Acc:23057]	
C3orf14	Chromosome 3 open reading frame 14 [Source:HGNC Symbol;Acc:25024]	
C3orf17	Chromosome 3 open reading frame 17 [Source:HGNC Symbol;Acc:24496]	
C3orf21	Chromosome 3 open reading frame 21 [Source:HGNC Symbol;Acc:26639]	
C3orf26	Chromosome 3 open reading frame 26 [Source:HGNC Symbol;Acc:28666]	
C3orf31	Chromosome 3 open reading frame 31 [Source:HGNC Symbol;Acc:25187]	
C3orf35	Chromosome 3 open reading frame 35 [Source:HGNC Symbol;Acc:24082]	
C3orf48	Chromosome 3 open reading frame 48 [Source:HGNC Symbol;Acc:28406]	
C3orf57	Chromosome 3 open reading frame 57 [Source:HGNC Symbol;Acc:24045]	
C3orf58	Chromosome 3 open reading frame 58 [Source:HGNC Symbol;Acc:28490]	
C3orf67	Chromosome 3 open reading frame 67 [Source:HGNC Symbol;Acc:24763]	
C3orf78	Chromosome 3 open reading frame 78 [Source:HGNC Symbol;Acc:37257]	
C4A	Complement component 4A (Rodgers blood group) [Source:HGNC Symbol;Acc:1323]	
C4B	Complement component 4B (Chido blood group) [Source:HGNC Symbol;Acc:1324]	

C4BPA	Complement component 4 binding protein, alpha [Source:HGNC Symbol;Acc:1325]	
C4orf21	Chromosome 4 open reading frame 21 [Source:HGNC Symbol;Acc:25654]	
C4orf31	Chromosome 4 open reading frame 31 [Source:HGNC Symbol;Acc:26256]	
C4orf33	Chromosome 4 open reading frame 33 [Source:HGNC Symbol;Acc:27025]	
C4orf36	Chromosome 4 open reading frame 36 [Source:HGNC Symbol;Acc:28386]	
C4orf40	Chromosome 4 open reading frame 40 [Source:HGNC Symbol;Acc:33193]	
C5AR1	Complement component 5a receptor 1 [Source:HGNC Symbol;Acc:1338]	
C5orf13	Chromosome 5 open reading frame 13 [Source:HGNC Symbol;Acc:16834]	
C5orf15	Chromosome 5 open reading frame 15 [Source:HGNC Symbol;Acc:20656]	
C5orf17	Chromosome 5 open reading frame 17 [Source:HGNC Symbol;Acc:26630]	
C5orf25	Chromosome 5 open reading frame 25 [Source:HGNC Symbol;Acc:24779]	
C5orf28	Chromosome 5 open reading frame 28 [Source:HGNC Symbol;Acc:26139]	
C5orf41	Chromosome 5 open reading frame 41 [Source:HGNC Symbol;Acc:24050]	
C5orf42	Chromosome 5 open reading frame 42 [Source:HGNC Symbol;Acc:25801]	
C5orf43	Chromosome 5 open reading frame 43 [Source:HGNC Symbol;Acc:33861]	
C5orf45	Chromosome 5 open reading frame 45 [Source:HGNC Symbol;Acc:30817]	
C5orf47	Chromosome 5 open reading frame 47 [Source:HGNC Symbol;Acc:27026]	
C5orf51	Chromosome 5 open reading frame 51 [Source:HGNC Symbol;Acc:27750]	
C5orf56	Chromosome 5 open reading frame 56 [Source:HGNC Symbol;Acc:33838]	
C5orf58	Chromosome 5 open reading frame 58 [Source:HGNC Symbol;Acc:37272]	
C5orf60	Chromosome 5 open reading frame 60 [Source:HGNC Symbol;Acc:27753]	
C6orf106	Chromosome 6 open reading frame 106 [Source:HGNC Symbol;Acc:21215]	
C6orf115	Chromosome 6 open reading frame 115 [Source:HGNC Symbol;Acc:21230]	
C6orf118	Chromosome 6 open reading frame 118 [Source:HGNC Symbol;Acc:21233]	
C6orf132	Chromosome 6 open reading frame 132 [Source:HGNC Symbol;Acc:21288]	
C6orf141	Chromosome 6 open reading frame 141 [Source:HGNC Symbol;Acc:21351]	

C6orf145	Chromosome 6 open reading frame 145 [Source:HGNC Symbol;Acc:21361]	
C6orf164	Chromosome 6 open reading frame 164 [Source:HGNC Symbol;Acc:21404]	
C6orf170	Chromosome 6 open reading frame 170 [Source:HGNC Symbol;Acc:21485]	
C6orf174	Chromosome 6 open reading frame 174 [Source:HGNC Symbol;Acc:21494]	
C6orf191	Chromosome 6 open reading frame 191 [Source:HGNC Symbol;Acc:21571]	
C6orf192	Chromosome 6 open reading frame 192 [Source:HGNC Symbol;Acc:21573]	
C6orf201	Chromosome 6 open reading frame 201 [Source:HGNC Symbol;Acc:21620]	
C6orf204	Chromosome 6 open reading frame 204 [Source:HGNC Symbol;Acc:21638]	
C6orf27	Chromosome 6 open reading frame 27 [Source:HGNC Symbol;Acc:13939]	
C6orf35	Chromosome 6 open reading frame 35 [Source:HGNC Symbol;Acc:17206]	
C6orf48	Chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:19078]	
C6orf64	Chromosome 6 open reading frame 64 [Source:HGNC Symbol;Acc:21025]	
C6orf81	Chromosome 6 open reading frame 81 [Source:HGNC Symbol;Acc:21099]	
C7	Complement component 7 [Source:HGNC Symbol;Acc:1346]	
C7orf13	Chromosome 7 open reading frame 13 [Source:HGNC Symbol;Acc:17126]	
C7orf16	Chromosome 7 open reading frame 16 [Source:HGNC Symbol;Acc:16973]	
C7orf29	Chromosome 7 open reading frame 29 [Source:HGNC Symbol;Acc:21720]	
C7orf52	Chromosome 7 open reading frame 52 [Source:HGNC Symbol;Acc:22030]	
C7orf58	Chromosome 7 open reading frame 58 [Source:HGNC Symbol;Acc:26159]	
C7orf63	Chromosome 7 open reading frame 63 [Source:HGNC Symbol;Acc:26107]	
C7orf71	Chromosome 7 open reading frame 71 [Source:HGNC Symbol;Acc:22364]	
C8A	Complement component 8, alpha polypeptide [Source:HGNC Symbol;Acc:1352]	
C8B	Complement component 8, beta polypeptide [Source:HGNC Symbol;Acc:1353]	

C8G	Complement component 8, gamma polypeptide [Source:HGNC Symbol;Acc:1354]	
C8orf12	Chromosome 8 open reading frame 12 [Source:HGNC Symbol;Acc:15548]	
C8orf31	Chromosome 8 open reading frame 31 [Source:HGNC Symbol;Acc:26731]	
C8orf37	Chromosome 8 open reading frame 37 [Source:HGNC Symbol;Acc:27232]	
C8orf47	Chromosome 8 open reading frame 47 [Source:HGNC Symbol;Acc:26823]	
C8orf55	Chromosome 8 open reading frame 55 [Source:HGNC Symbol;Acc:29656]	
C8orf80	Chromosome 8 open reading frame 80 [Source:HGNC Symbol;Acc:33550]	
C8orf82	Chromosome 8 open reading frame 82 [Source:HGNC Symbol;Acc:33826]	
C9orf102	Chromosome 9 open reading frame 102 [Source:HGNC Symbol;Acc:26922]	
C9orf114	Chromosome 9 open reading frame 114 [Source:HGNC Symbol;Acc:26933]	
C9orf116	Chromosome 9 open reading frame 116 [Source:HGNC Symbol;Acc:28435]	
C9orf117	Chromosome 9 open reading frame 117 [Source:HGNC Symbol;Acc:27843]	
C9orf125	Chromosome 9 open reading frame 125 [Source:HGNC Symbol;Acc:28180]	
C9orf140	Chromosome 9 open reading frame 140 [Source:HGNC Symbol;Acc:28055]	
C9orf150	Chromosome 9 open reading frame 150 [Source:HGNC Symbol;Acc:31452]	
C9orf156	Chromosome 9 open reading frame 156 [Source:HGNC Symbol;Acc:30967]	
C9orf163	Chromosome 9 open reading frame 163 [Source:HGNC Symbol;Acc:26718]	
C9orf167	Chromosome 9 open reading frame 167 [Source:HGNC Symbol;Acc:25981]	
C9orf174	Chromosome 9 open reading frame 174 [Source:HGNC Symbol;Acc:29303]	
C9orf25	Chromosome 9 open reading frame 25 [Source:HGNC Symbol;Acc:19920]	
C9orf3	Chromosome 9 open reading frame 3 [Source:HGNC Symbol;Acc:1361]	

C9orf35	Chromosome 9 open reading frame 35 [Source:HGNC Symbol;Acc:23388]	
C9orf38	Chromosome 9 open reading frame 38 [Source:HGNC Symbol;Acc:23398]	
C9orf41	Chromosome 9 open reading frame 41 [Source:HGNC Symbol;Acc:23435]	
C9orf47	Chromosome 9 open reading frame 47 [Source:HGNC Symbol;Acc:23669]	
C9orf64	Chromosome 9 open reading frame 64 [Source:HGNC Symbol;Acc:28144]	
C9orf68	Chromosome 9 open reading frame 68 [Source:HGNC Symbol;Acc:25472]	
C9orf7	Chromosome 9 open reading frame 7 [Source:HGNC Symbol;Acc:1365]	
C9orf71	Chromosome 9 open reading frame 71 [Source:HGNC Symbol;Acc:28537]	
C9orf72	Chromosome 9 open reading frame 72 [Source:HGNC Symbol;Acc:28337]	
C9orf84	Chromosome 9 open reading frame 84 [Source:HGNC Symbol;Acc:26535]	
C9orf89	Chromosome 9 open reading frame 89 [Source:HGNC Symbol;Acc:28148]	
C9orf93	Chromosome 9 open reading frame 93 [Source:HGNC Symbol;Acc:29828]	
C9orf96	Chromosome 9 open reading frame 96 [Source:HGNC Symbol;Acc:28669]	
CA12	Carbonic anhydrase XII [Source:HGNC Symbol;Acc:1371]	
CA13	Carbonic anhydrase XIII [Source:HGNC Symbol;Acc:14914]	
CA14	Carbonic anhydrase XIV [Source:HGNC Symbol;Acc:1372]	
CA2	Carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]	
CA5B	Carbonic anhydrase VB, mitochondrial [Source:HGNC Symbol;Acc:1378]	
CA7	Carbonic anhydrase VII [Source:HGNC Symbol;Acc:1381]	
CA8	Carbonic anhydrase VIII [Source:HGNC Symbol;Acc:1382]	
CAB39	Calcium binding protein 39 [Source:HGNC Symbol;Acc:20292]	
CABIN1	Calcineurin binding protein 1 [Source:HGNC Symbol;Acc:24187]	
CABLES1	Cdk5 and Abl enzyme substrate 1 [Source:HGNC Symbol;Acc:25097]	
CABP1	Calcium binding protein 1 [Source:HGNC Symbol;Acc:1384]	
CABP4	Calcium binding protein 4 [Source:HGNC Symbol;Acc:1386]	
CABP7	Calcium binding protein 7 [Source:HGNC Symbol;Acc:20834]	
CABS1	Calcium-binding protein, spermatid-specific 1 [Source:HGNC Symbol;Acc:30710]	
CACHD1	Cache domain containing 1 [Source:HGNC Symbol;Acc:29314]	
CACNA1C	Calcium channel, voltage-dependent, L type, alpha 1C subunit [Source:HGNC Symbol;Acc:1390]	
CACNA1E	Calcium channel, voltage-dependent, R type, alpha 1E subunit [Source:HGNC Symbol;Acc:1392]	

CACNA1F	Calcium channel, voltage-dependent, L type, alpha 1F subunit [Source:HGNC Symbol;Acc:1393]	
CACNA1G	Calcium channel, voltage-dependent, T type, alpha 1G subunit [Source:HGNC Symbol;Acc:1394]	
CACNA1H	Calcium channel, voltage-dependent, T type, alpha 1H subunit [Source:HGNC Symbol;Acc:1395]	
CACNA1I	Calcium channel, voltage-dependent, T type, alpha 1I subunit [Source:HGNC Symbol;Acc:1396]	
CACNA1S	Calcium channel, voltage-dependent, L type, alpha 1S subunit [Source:HGNC Symbol;Acc:1397]	
CACNA2D2	Calcium channel, voltage-dependent, alpha 2/delta subunit 2 [Source:HGNC Symbol;Acc:1400]	
CACNA2D3	Calcium channel, voltage-dependent, alpha 2/delta subunit 3 [Source:HGNC Symbol;Acc:15460]	
CACNA2D4	Calcium channel, voltage-dependent, alpha 2/delta subunit 4 [Source:HGNC Symbol;Acc:20202]	
CACNB2	Calcium channel, voltage-dependent, beta 2 subunit [Source:HGNC Symbol;Acc:1402]	
CACNB3	Calcium channel, voltage-dependent, beta 3 subunit [Source:HGNC Symbol;Acc:1403]	
CACNG1	Calcium channel, voltage-dependent, gamma subunit 1 [Source:HGNC Symbol;Acc:1405]	
CACNG3	Calcium channel, voltage-dependent, gamma subunit 3 [Source:HGNC Symbol;Acc:1407]	
CACNG8	Calcium channel, voltage-dependent, gamma subunit 8 [Source:HGNC Symbol;Acc:13628]	
CAD	Carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase [Source:HGNC Symbol;Acc:1424]	
CADM1	Cell adhesion molecule 1 [Source:HGNC Symbol;Acc:5951]	
CADM2	Cell adhesion molecule 2 [Source:HGNC Symbol;Acc:29849]	
CAGE1	Cancer antigen 1 [Source:HGNC Symbol;Acc:21622]	
CALB1	Calbindin 1, 28kda [Source:HGNC Symbol;Acc:1434]	
CALCB	Calcitonin-related polypeptide beta [Source:HGNC Symbol;Acc:1438]	

CALCOCO2	Calcium binding and coiled-coil domain 2 [Source:HGNC Symbol;Acc:29912]	
CALCRL	Calcitonin receptor-like [Source:HGNC Symbol;Acc:16709]	
CALD1	Caldesmon 1 [Source:HGNC Symbol;Acc:1441]	
CALM1	Calmodulin 1 (phosphorylase kinase, delta) [Source:HGNC Symbol;Acc:1442]	
CALML4	Calmodulin-like 4 [Source:HGNC Symbol;Acc:18445]	
CALML6	Calmodulin-like 6 [Source:HGNC Symbol;Acc:24193]	
CALN1	Calneuron 1 [Source:HGNC Symbol;Acc:13248]	
CALU	Calumenin [Source:HGNC Symbol;Acc:1458]	
CAMK1D	Calcium/calmodulin-dependent protein kinase ID [Source:HGNC Symbol;Acc:19341]	
CAMK2D	Calcium/calmodulin-dependent protein kinase II delta [Source:HGNC Symbol;Acc:1462]	
CAMK2G	Calcium/calmodulin-dependent protein kinase II gamma [Source:HGNC Symbol;Acc:1463]	
CAMKK1	Calcium/calmodulin-dependent protein kinase kinase 1, alpha [Source:HGNC Symbol;Acc:1469]	
CAMKV	Cam kinase-like vesicle-associated [Source:HGNC Symbol;Acc:28788]	
CAMSAP1	Calmodulin regulated spectrin-associated protein 1 [Source:HGNC Symbol;Acc:19946]	
CAMTA1	Calmodulin binding transcription activator 1	√
CAND1	Cullin-associated and neddylation-dissociated 1 [Source:HGNC Symbol;Acc:30688]	
CAND2	Cullin-associated and neddylation-dissociated 2 (putative) [Source:HGNC Symbol;Acc:30689]	
CAPN1	Calpain 1, (mu/I) large subunit [Source:HGNC Symbol;Acc:1476]	
CAPN12	Calpain 12 [Source:HGNC Symbol;Acc:13249]	
CAPN7	Calpain 7 [Source:HGNC Symbol;Acc:1484]	
CAPRIN2	Caprin family member 2 [Source:HGNC Symbol;Acc:21259]	
CAPS	Calcyphosine [Source:HGNC Symbol;Acc:1487]	
CAPZA3	Capping protein (actin filament) muscle Z-line, alpha 3 [Source:HGNC Symbol;Acc:24205]	

CARD11	Caspase recruitment domain family, member 11 [Source:HGNC Symbol;Acc:16393]	√
CARD14	Caspase recruitment domain family, member 14 [Source:HGNC Symbol;Acc:16446]	
CARD8	Caspase recruitment domain family, member 8 [Source:HGNC Symbol;Acc:17057]	
CARD9	Caspase recruitment domain family, member 9 [Source:HGNC Symbol;Acc:16391]	
CARM1	Coactivator-associated arginine methyltransferase 1 [Source:HGNC Symbol;Acc:23393]	
CARS	Cysteinyl-trna synthetase [Source:HGNC Symbol;Acc:1493]	√
CASC4	Cancer susceptibility candidate 4 [Source:HGNC Symbol;Acc:24892]	
CASC5	Cancer susceptibility candidate 5 [Source:HGNC Symbol;Acc:24054]	
CASD1	CAS1 domain containing 1 [Source:HGNC Symbol;Acc:16014]	
CASK	Calcium/calmodulin-dependent serine protein kinase (MAGUK family) [Source:HGNC Symbol;Acc:1497]	
CASKIN1	CASK interacting protein 1 [Source:HGNC Symbol;Acc:20879]	
CASP1	Caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase) [Source:HGNC Symbol;Acc:1499]	
CASP2	Caspase 2, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1503]	
CASP6	Caspase 6, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1507]	
CASP8AP2	Caspase 8 associated protein 2 [Source:HGNC Symbol;Acc:1510]	
CASP9	Caspase 9, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1511]	
CASQ1	Calsequestrin 1 (fast-twitch, skeletal muscle) [Source:HGNC Symbol;Acc:1512]	
CASQ2	Calsequestrin 2 (cardiac muscle) [Source:HGNC Symbol;Acc:1513]	
CASR	Calcium-sensing receptor [Source:HGNC Symbol;Acc:1514]	
CASS4	Cas scaffolding protein family member 4 [Source:HGNC Symbol;Acc:15878]	
CAST	Calpastatin [Source:HGNC Symbol;Acc:1515]	

CASZ1	Castor zinc finger 1 [Source:HGNC Symbol;Acc:26002]	
CAT	Catalase [Source:HGNC Symbol;Acc:1516]	
CATSPERB	Cation channel, sperm-associated, beta [Source:HGNC Symbol;Acc:20500]	
CATSPERG	Cation channel, sperm-associated, gamma [Source:HGNC Symbol;Acc:25243]	
CAV2	Caveolin 2 [Source:HGNC Symbol;Acc:1528]	
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	√
CBR3	Carbonyl reductase 3 [Source:HGNC Symbol;Acc:1549]	
CBWD3	COBW domain containing 3 [Source:HGNC Symbol;Acc:18519]	
CBWD5	COBW domain containing 5 [Source:HGNC Symbol;Acc:24584]	
CBWD6	COBW domain containing 6 [Source:HGNC Symbol;Acc:31978]	
CBX3	Chromobox homolog 3 [Source:HGNC Symbol;Acc:1553]	
CBX7	Chromobox homolog 7 [Source:HGNC Symbol;Acc:1557]	
CC2D1A	Coiled-coil and C2 domain containing 1A [Source:HGNC Symbol;Acc:30237]	
CC2D1B	Coiled-coil and C2 domain containing 1B [Source:HGNC Symbol;Acc:29386]	
CCAR1	Cell division cycle and apoptosis regulator 1 [Source:HGNC Symbol;Acc:24236]	
CCBL1	Cysteine conjugate-beta lyase, cytoplasmic [Source:HGNC Symbol;Acc:1564]	
CCBL2	Cysteine conjugate-beta lyase 2 [Source:HGNC Symbol;Acc:33238]	
CCDC103	Coiled-coil domain containing 103 [Source:HGNC Symbol;Acc:32700]	
CCDC108	Coiled-coil domain containing 108 [Source:HGNC Symbol;Acc:25325]	
CCDC11	Coiled-coil domain containing 11 [Source:HGNC Symbol;Acc:26530]	
CCDC110	Coiled-coil domain containing 110 [Source:HGNC Symbol;Acc:28504]	
CCDC112	Coiled-coil domain containing 112 [Source:HGNC Symbol;Acc:28599]	
CCDC116	Coiled-coil domain containing 116 [Source:HGNC Symbol;Acc:26688]	
CCDC126	Coiled-coil domain containing 126 [Source:HGNC Symbol;Acc:22398]	
CCDC13	Coiled-coil domain containing 13 [Source:HGNC Symbol;Acc:26358]	
CCDC130	Coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:28118]	
CCDC132	Coiled-coil domain containing 132 [Source:HGNC Symbol;Acc:25956]	
CCDC135	Coiled-coil domain containing 135 [Source:HGNC Symbol;Acc:25289]	

CCDC138	Coiled-coil domain containing 138 [Source:HGNC Symbol;Acc:26531]	
CCDC14	Coiled-coil domain containing 14 [Source:HGNC Symbol;Acc:25766]	
CCDC142	Coiled-coil domain containing 142 [Source:HGNC Symbol;Acc:25889]	
CCDC155	Coiled-coil domain containing 155 [Source:HGNC Symbol;Acc:26520]	
CCDC18	Coiled-coil domain containing 18 [Source:HGNC Symbol;Acc:30370]	
CCDC21	Coiled-coil domain containing 21 [Source:HGNC Symbol;Acc:25309]	
CCDC24	Coiled-coil domain containing 24 [Source:HGNC Symbol;Acc:28688]	
CCDC25	Coiled-coil domain containing 25 [Source:HGNC Symbol;Acc:25591]	
CCDC28A	Coiled-coil domain containing 28A [Source:HGNC Symbol;Acc:21098]	
CCDC28B	Coiled-coil domain containing 28B [Source:HGNC Symbol;Acc:28163]	
CCDC3	Coiled-coil domain containing 3 [Source:HGNC Symbol;Acc:23813]	
CCDC36	Coiled-coil domain containing 36 [Source:HGNC Symbol;Acc:27945]	
CCDC42	Coiled-coil domain containing 42 [Source:HGNC Symbol;Acc:26528]	
CCDC45	Coiled-coil domain containing 45 [Source:HGNC Symbol;Acc:25141]	
CCDC50	Coiled-coil domain containing 50 [Source:HGNC Symbol;Acc:18111]	
CCDC55	Coiled-coil domain containing 55 [Source:HGNC Symbol;Acc:25305]	
CCDC58	Coiled-coil domain containing 58 [Source:HGNC Symbol;Acc:31136]	
CCDC60	Coiled-coil domain containing 60 [Source:HGNC Symbol;Acc:28610]	
CCDC62	Coiled-coil domain containing 62 [Source:HGNC Symbol;Acc:30723]	
CCDC63	Coiled-coil domain containing 63 [Source:HGNC Symbol;Acc:26669]	
CCDC64	Coiled-coil domain containing 64 [Source:HGNC Symbol;Acc:28095]	
CCDC66	Coiled-coil domain containing 66 [Source:HGNC Symbol;Acc:27709]	
CCDC78	Coiled-coil domain containing 78 [Source:HGNC Symbol;Acc:14153]	
CCDC80	Coiled-coil domain containing 80 [Source:HGNC Symbol;Acc:30649]	
CCDC81	Coiled-coil domain containing 81 [Source:HGNC Symbol;Acc:26281]	
CCDC88A	Coiled-coil domain containing 88A [Source:HGNC Symbol;Acc:25523]	
CCDC88B	Coiled-coil domain containing 88B [Source:HGNC Symbol;Acc:26757]	
CCDC88C	Coiled-coil domain containing 88C [Source:HGNC Symbol;Acc:19967]	
CCDC9	Coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:24560]	
CCDC92	Coiled-coil domain containing 92 [Source:HGNC Symbol;Acc:29563]	
CCDC94	Coiled-coil domain containing 94 [Source:HGNC Symbol;Acc:25518]	
CCDC97	Coiled-coil domain containing 97 [Source:HGNC Symbol;Acc:28289]	
CCDC99	Coiled-coil domain containing 99 [Source:HGNC Symbol;Acc:26010]	

CCHCR1	Coiled-coil alpha-helical rod protein 1 [Source:HGNC Symbol;Acc:13930]	
CCIN	Calicin [Source:HGNC Symbol;Acc:1568]	
CCKAR	Cholecystokinin A receptor [Source:HGNC Symbol;Acc:1570]	
CCKBR	Cholecystokinin B receptor [Source:HGNC Symbol;Acc:1571]	
CCL1	Chemokine (C-C motif) ligand 1 [Source:HGNC Symbol;Acc:10609]	
CCL11	Chemokine (C-C motif) ligand 11 [Source:HGNC Symbol;Acc:10610]	
CCL18	Chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated) [Source:HGNC Symbol;Acc:10616]	
CCL19	Chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:10617]	
CCL22	Chemokine (C-C motif) ligand 22 [Source:HGNC Symbol;Acc:10621]	
CCNB3	Cyclin B3 [Source:HGNC Symbol;Acc:18709]	
CCNC	Cyclin C [Source:HGNC Symbol;Acc:1581]	
CCND1	Cyclin D1	√
CCNE2	Cyclin E2 [Source:HGNC Symbol;Acc:1590]	
CCNG1	Cyclin G1 [Source:HGNC Symbol;Acc:1592]	
CCNI	Cyclin I [Source:HGNC Symbol;Acc:1595]	
CCNI2	Cyclin I family, member 2 [Source:HGNC Symbol;Acc:33869]	
CCNK	Cyclin K [Source:HGNC Symbol;Acc:1596]	
CCNY	Cyclin Y [Source:HGNC Symbol;Acc:23354]	
CCNYL1	Cyclin Y-like 1 [Source:HGNC Symbol;Acc:26868]	
CCR4	Chemokine (C-C motif) receptor 4 [Source:HGNC Symbol;Acc:1605]	
CCR7	Chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Acc:1608]	
CCT5	Chaperonin containing TCP1, subunit 5 (epsilon) [Source:HGNC Symbol;Acc:1618]	
CCT6A	Chaperonin containing TCP1, subunit 6A (zeta 1) [Source:HGNC Symbol;Acc:1620]	
CCT8L2	Chaperonin containing TCP1, subunit 8 (theta)-like 2 [Source:HGNC Symbol;Acc:15553]	
CD101	CD101 molecule [Source:HGNC Symbol;Acc:5949]	
CD109	CD109 molecule [Source:HGNC Symbol;Acc:21685]	
CD163	CD163 molecule [Source:HGNC Symbol;Acc:1631]	
CD163L1	CD163 molecule-like 1 [Source:HGNC Symbol;Acc:30375]	
CD19	CD19 molecule [Source:HGNC Symbol;Acc:1633]	

CD1E	CD1e molecule [Source:HGNC Symbol;Acc:1638]	
CD209	CD209 molecule [Source:HGNC Symbol;Acc:1641]	
CD226	CD226 molecule [Source:HGNC Symbol;Acc:16961]	
CD27	CD27 molecule [Source:HGNC Symbol;Acc:11922]	
CD28	CD28 molecule [Source:HGNC Symbol;Acc:1653]	
CD2BP2	CD2 (cytoplasmic tail) binding protein 2 [Source:HGNC Symbol;Acc:1656]	
CD300A	CD300a molecule [Source:HGNC Symbol;Acc:19319]	
CD300LB	CD300 molecule-like family member b [Source:HGNC Symbol;Acc:30811]	
CD320	CD320 molecule [Source:HGNC Symbol;Acc:16692]	
CD34	CD34 molecule [Source:HGNC Symbol;Acc:1662]	
CD3E	CD3e molecule, epsilon (CD3-TCR complex) [Source:HGNC Symbol;Acc:1674]	
CD4	CD4 molecule [Source:HGNC Symbol;Acc:1678]	
CD40	CD40 molecule, TNF receptor superfamily member 5 [Source:HGNC Symbol;Acc:11919]	
CD46	CD46 molecule, complement regulatory protein [Source:HGNC Symbol;Acc:6953]	
CD59	CD59 molecule, complement regulatory protein [Source:HGNC Symbol;Acc:1689]	
CD72	CD72 molecule [Source:HGNC Symbol;Acc:1696]	
CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	√
CD83	CD83 molecule [Source:HGNC Symbol;Acc:1703]	
CD86	CD86 molecule [Source:HGNC Symbol;Acc:1705]	
CD96	CD96 molecule [Source:HGNC Symbol;Acc:16892]	
CD99L2	CD99 molecule-like 2 [Source:HGNC Symbol;Acc:18237]	
CDC16	Cell division cycle 16 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:1720]	
CDC20	Cell division cycle 20 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:1723]	
CDC25A	Cell division cycle 25 homolog A (S. Pombe) [Source:HGNC Symbol;Acc:1725]	
CDC27	Cell division cycle 27 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:1728]	

CDC37L1	Cell division cycle 37 homolog (S. Cerevisiae)-like 1 [Source:HGNC Symbol;Acc:17179]	
CDC42	Cell division cycle 42 (GTP binding protein, 25kda) [Source:HGNC Symbol;Acc:1736]	
CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like) [Source:HGNC Symbol;Acc:1737]	
CDC42BPB	CDC42 binding protein kinase beta (DMPK-like) [Source:HGNC Symbol;Acc:1738]	
CDC42BPG	CDC42 binding protein kinase gamma (DMPK-like) [Source:HGNC Symbol;Acc:29829]	
CDC42EP1	CDC42 effector protein (Rho gtpase binding) 1 [Source:HGNC Symbol;Acc:17014]	
CDC42EP2	CDC42 effector protein (Rho gtpase binding) 2 [Source:HGNC Symbol;Acc:16263]	
CDC42EP3	CDC42 effector protein (Rho gtpase binding) 3 [Source:HGNC Symbol;Acc:16943]	
CDC42SE1	CDC42 small effector 1 [Source:HGNC Symbol;Acc:17719]	
CDC42SE2	CDC42 small effector 2 [Source:HGNC Symbol;Acc:18547]	
CDC5L	CDC5 cell division cycle 5-like (S. Pombe) [Source:HGNC Symbol;Acc:1743]	
CDCA2	Cell division cycle associated 2 [Source:HGNC Symbol;Acc:14623]	
CDCA3	Cell division cycle associated 3 [Source:HGNC Symbol;Acc:14624]	
CDCA8	Cell division cycle associated 8 [Source:HGNC Symbol;Acc:14629]	
CDCP1	CUB domain containing protein 1 [Source:HGNC Symbol;Acc:24357]	
CDH1	Cadherin 1, type 1, E-cadherin (epithelial)	√
CDH12	Cadherin 12, type 2 (N-cadherin 2) [Source:HGNC Symbol;Acc:1751]	
CDH15	Cadherin 15, type 1, M-cadherin (myotubule) [Source:HGNC Symbol;Acc:1754]	
CDH2	Cadherin 2, type 1, N-cadherin (neuronal) [Source:HGNC Symbol;Acc:1759]	
CDH20	Cadherin 20, type 2 [Source:HGNC Symbol;Acc:1760]	
CDH23	Cadherin-related 23 [Source:HGNC Symbol;Acc:13733]	
CDH26	Cadherin 26 [Source:HGNC Symbol;Acc:15902]	

CDH3	Cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Symbol;Acc:1762]	
CDH4	Cadherin 4, type 1, R-cadherin (retinal) [Source:HGNC Symbol;Acc:1763]	
CDH5	Cadherin 5, type 2 (vascular endothelium) [Source:HGNC Symbol;Acc:1764]	
CDH6	Cadherin 6, type 2, K-cadherin (fetal kidney) [Source:HGNC Symbol;Acc:1765]	
CDH7	Cadherin 7, type 2 [Source:HGNC Symbol;Acc:1766]	
CDH9	Cadherin 9, type 2 (T1-cadherin) [Source:HGNC Symbol;Acc:1768]	
CDHR1	Cadherin-related family member 1 [Source:HGNC Symbol;Acc:14550]	
CDK11A	Cyclin-dependent kinase 11A [Source:HGNC Symbol;Acc:1730]	
CDK14	Cyclin-dependent kinase 14 [Source:HGNC Symbol;Acc:8883]	
CDK17	Cyclin-dependent kinase 17 [Source:HGNC Symbol;Acc:8750]	
CDK18	Cyclin-dependent kinase 18 [Source:HGNC Symbol;Acc:8751]	
CDK19	Cyclin-dependent kinase 19 [Source:HGNC Symbol;Acc:19338]	
CDK20	Cyclin-dependent kinase 20 [Source:HGNC Symbol;Acc:21420]	
CDK4	Cyclin-dependent kinase 4	√
CDK5RAP1	CDK5 regulatory subunit associated protein 1 [Source:HGNC Symbol;Acc:15880]	
CDK5RAP2	CDK5 regulatory subunit associated protein 2 [Source:HGNC Symbol;Acc:18672]	
CDKL1	Cyclin-dependent kinase-like 1 (CDC2-related kinase) [Source:HGNC Symbol;Acc:1781]	
CDKN1B	Cyclin-dependent kinase inhibitor 1B (p27, Kip1) [Source:HGNC Symbol;Acc:1785]	
CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:24325]	
CDKN2B	Cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) [Source:HGNC Symbol;Acc:1788]	
CDKN2D	Cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4) [Source:HGNC Symbol;Acc:1790]	
CDON	Cdon homolog (mouse) [Source:HGNC Symbol;Acc:17104]	
CDR2L	Cerebellar degeneration-related protein 2-like [Source:HGNC Symbol;Acc:29999]	

CDS2	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2 [Source:HGNC Symbol;Acc:1801]	
CEACAM21	Carcinoembryonic antigen-related cell adhesion molecule 21 [Source:HGNC Symbol;Acc:28834]	
CEBPD	CCAAT/enhancer binding protein (C/EBP), delta [Source:HGNC Symbol;Acc:1835]	
CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma [Source:HGNC Symbol;Acc:1837]	
CEBPZ	CCAAT/enhancer binding protein (C/EBP), zeta [Source:HGNC Symbol;Acc:24218]	
CECR6	Cat eye syndrome chromosome region, candidate 6 [Source:HGNC Symbol;Acc:1844]	
CELA1	Chymotrypsin-like elastase family, member 1 [Source:HGNC Symbol;Acc:3308]	
CELA3A	Chymotrypsin-like elastase family, member 3A [Source:HGNC Symbol;Acc:15944]	
CELF1	CUGBP, Elav-like family member 1 [Source:HGNC Symbol;Acc:2549]	
CELF2	CUGBP, Elav-like family member 2 [Source:HGNC Symbol;Acc:2550]	
CELF5	CUGBP, Elav-like family member 5 [Source:HGNC Symbol;Acc:14058]	
CELSR1	Cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila) [Source:HGNC Symbol;Acc:1850]	
CELSR2	Cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila) [Source:HGNC Symbol;Acc:3231]	
CELSR3	Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila) [Source:HGNC Symbol;Acc:3230]	
CEND1	Cell cycle exit and neuronal differentiation 1 [Source:HGNC Symbol;Acc:24153]	
CENPC1	Centromere protein C 1 [Source:HGNC Symbol;Acc:1854]	
CENPK	Centromere protein K [Source:HGNC Symbol;Acc:29479]	
CENPO	Centromere protein O [Source:HGNC Symbol;Acc:28152]	
CENPP	Centromere protein P [Source:HGNC Symbol;Acc:32933]	
CEP110	Centrosomal protein 110kda [Source:HGNC Symbol;Acc:1858]	
CEP135	Centrosomal protein 135kda [Source:HGNC Symbol;Acc:29086]	

CEP152	Centrosomal protein 152kda [Source:HGNC Symbol;Acc:29298]	
CEP164	Centrosomal protein 164kda [Source:HGNC Symbol;Acc:29182]	
CEP170	Centrosomal protein 170kda [Source:HGNC Symbol;Acc:28920]	
CEP250	Centrosomal protein 250kda [Source:HGNC Symbol;Acc:1859]	
CEP350	Centrosomal protein 350kda [Source:HGNC Symbol;Acc:24238]	
CEP63	Centrosomal protein 63kda [Source:HGNC Symbol;Acc:25815]	
CEP68	Centrosomal protein 68kda [Source:HGNC Symbol;Acc:29076]	
CEP72	Centrosomal protein 72kda [Source:HGNC Symbol;Acc:25547]	
CEP78	Centrosomal protein 78kda [Source:HGNC Symbol;Acc:25740]	
CEP97	Centrosomal protein 97kda [Source:HGNC Symbol;Acc:26244]	
CES1	Carboxylesterase 1 [Source:HGNC Symbol;Acc:1863]	
CES2	Carboxylesterase 2 [Source:HGNC Symbol;Acc:1864]	
CES3	Carboxylesterase 3 [Source:HGNC Symbol;Acc:1865]	
CES5A	Carboxylesterase 5A [Source:HGNC Symbol;Acc:26459]	
CFC1	Cripto, FRL-1, cryptic family 1 [Source:HGNC Symbol;Acc:18292]	
CFC1B	Cripto, FRL-1, cryptic family 1B [Source:HGNC Symbol;Acc:33983]	
CFHR5	Complement factor H-related 5 [Source:HGNC Symbol;Acc:24668]	
CFI	Complement factor I [Source:HGNC Symbol;Acc:5394]	
CFL1	Cofilin 1 (non-muscle) [Source:HGNC Symbol;Acc:1874]	
CFP	Complement factor properdin [Source:HGNC Symbol;Acc:8864]	
CGGBP1	CGG triplet repeat binding protein 1 [Source:HGNC Symbol;Acc:1888]	
CGNL1	Cingulin-like 1 [Source:HGNC Symbol;Acc:25931]	
CGREF1	Cell growth regulator with EF-hand domain 1 [Source:HGNC Symbol;Acc:16962]	
CGRRF1	Cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:15528]	
CHCHD5	Coiled-coil-helix-coiled-coil-helix domain containing 5 [Source:HGNC Symbol;Acc:17840]	
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:HGNC Symbol;Acc:28314]	√
CHCHD8	Coiled-coil-helix-coiled-coil-helix domain containing 8 [Source:HGNC Symbol;Acc:24604]	

CHD1	Chromodomain helicase DNA binding protein 1 [Source:HGNC Symbol;Acc:1915]	
CHD1L	Chromodomain helicase DNA binding protein 1-like [Source:HGNC Symbol;Acc:1916]	
CHD2	Chromodomain helicase DNA binding protein 2 [Source:HGNC Symbol;Acc:1917]	
CHD3	Chromodomain helicase DNA binding protein 3 [Source:HGNC Symbol;Acc:1918]	
CHD4	Chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:1919]	
CHD6	Chromodomain helicase DNA binding protein 6 [Source:HGNC Symbol;Acc:19057]	
CHD7	Chromodomain helicase DNA binding protein 7 [Source:HGNC Symbol;Acc:20626]	
CHD9	Chromodomain helicase DNA binding protein 9 [Source:HGNC Symbol;Acc:25701]	
CHEK2	CHK2 checkpoint homolog (*S. Pombe*)	√
CHERP	Calcium homeostasis endoplasmic reticulum protein [Source:HGNC Symbol;Acc:16930]	
CHFR	Checkpoint with forkhead and ring finger domains [Source:HGNC Symbol;Acc:20455]	
CHGA	Chromogranin A (parathyroid secretory protein 1) [Source:HGNC Symbol;Acc:1929]	
CHI3L2	Chitinase 3-like 2 [Source:HGNC Symbol;Acc:1933]	
CHID1	Chitinase domain containing 1 [Source:HGNC Symbol;Acc:28474]	
CHIT1	Chitinase 1 (chitotriosidase) [Source:HGNC Symbol;Acc:1936]	
CHL1	Cell adhesion molecule with homology to L1CAM (close homolog of L1) [Source:HGNC Symbol;Acc:1939]	
CHML	Choroideremia-like (Rab escort protein 2) [Source:HGNC Symbol;Acc:1941]	
CHMP1A	Chromatin modifying protein 1A [Source:HGNC Symbol;Acc:8740]	
CHMP2B	Chromatin modifying protein 2B [Source:HGNC Symbol;Acc:24537]	
CHMP7	CHMP family, member 7 [Source:HGNC Symbol;Acc:28439]	

CHN1	Chimerin (chimaerin) 1	√
CHPF	Chondroitin polymerizing factor [Source:HGNC Symbol;Acc:24291]	
CHPF2	Chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:29270]	
CHRDL1	Chordin-like 1 [Source:HGNC Symbol;Acc:29861]	
CHRM1	Cholinergic receptor, muscarinic 1 [Source:HGNC Symbol;Acc:1950]	
CHRM2	Cholinergic receptor, muscarinic 2 [Source:HGNC Symbol;Acc:1951]	
CHRM3	Cholinergic receptor, muscarinic 3 [Source:HGNC Symbol;Acc:1952]	
CHRNA10	Cholinergic receptor, nicotinic, alpha 10 [Source:HGNC Symbol;Acc:13800]	
CHRNA2	Cholinergic receptor, nicotinic, alpha 2 (neuronal) [Source:HGNC Symbol;Acc:1956]	
CHRNA7	Cholinergic receptor, nicotinic, alpha 7 [Source:HGNC Symbol;Acc:1960]	
CHRNB2	Cholinergic receptor, nicotinic, beta 2 (neuronal) [Source:HGNC Symbol;Acc:1962]	
CHRNB3	Cholinergic receptor, nicotinic, beta 3 [Source:HGNC Symbol;Acc:1963]	
CHRNB4	Cholinergic receptor, nicotinic, beta 4 [Source:HGNC Symbol;Acc:1964]	
CHRND	Cholinergic receptor, nicotinic, delta [Source:HGNC Symbol;Acc:1965]	
CHST11	Carbohydrate (chondroitin 4) sulfotransferase 11 [Source:HGNC Symbol;Acc:17422]	
CHST14	Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14 [Source:HGNC Symbol;Acc:24464]	
CHST3	Carbohydrate (chondroitin 6) sulfotransferase 3 [Source:HGNC Symbol;Acc:1971]	
CHST5	Carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5 [Source:HGNC Symbol;Acc:1973]	
CHST6	Carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 6 [Source:HGNC Symbol;Acc:6938]	
CHSY3	Chondroitin sulfate synthase 3 [Source:HGNC Symbol;Acc:24293]	
CIDEB	Cell death-inducing DFFA-like effector b [Source:HGNC Symbol;Acc:1977]	
CIITA	Class II, major histocompatibility complex, transactivator	√
CILP2	Cartilage intermediate layer protein 2 [Source:HGNC Symbol;Acc:24213]	
CIRBP	Cold inducible RNA binding protein [Source:HGNC Symbol;Acc:1982]	

CISD1	CDGSH iron sulfur domain 1 [Source:HGNC Symbol;Acc:30880]	
CIT	Citron (rho-interacting, serine/threonine kinase 21) [Source:HGNC Symbol;Acc:1985]	
CKAP2L	Cytoskeleton associated protein 2-like [Source:HGNC Symbol;Acc:26877]	
CKAP4	Cytoskeleton-associated protein 4 [Source:HGNC Symbol;Acc:16991]	
CKAP5	Cytoskeleton associated protein 5 [Source:HGNC Symbol;Acc:28959]	
CKS1B	CDC28 protein kinase regulatory subunit 1B [Source:HGNC Symbol;Acc:19083]	
CLASP1	Cytoplasmic linker associated protein 1 [Source:HGNC Symbol;Acc:17088]	
CLASP2	Cytoplasmic linker associated protein 2 [Source:HGNC Symbol;Acc:17078]	
CLCA2	Chloride channel accessory 2 [Source:HGNC Symbol;Acc:2016]	
CLCF1	Cardiotrophin-like cytokine factor 1 [Source:HGNC Symbol;Acc:17412]	
CLCN2	Chloride channel 2 [Source:HGNC Symbol;Acc:2020]	
CLCN3	Chloride channel 3 [Source:HGNC Symbol;Acc:2021]	
CLCN4	Chloride channel 4 [Source:HGNC Symbol;Acc:2022]	
CLCN5	Chloride channel 5 [Source:HGNC Symbol;Acc:2023]	
CLCN6	Chloride channel 6 [Source:HGNC Symbol;Acc:2024]	
CLCN7	Chloride channel 7 [Source:HGNC Symbol;Acc:2025]	
CLCNKA	Chloride channel Ka [Source:HGNC Symbol;Acc:2026]	
CLCNKB	Chloride channel Kb [Source:HGNC Symbol;Acc:2027]	
CLDN10	Claudin 10 [Source:HGNC Symbol;Acc:2033]	
CLDN16	Claudin 16 [Source:HGNC Symbol;Acc:2037]	
CLDN20	Claudin 20 [Source:HGNC Symbol;Acc:2042]	
CLDN8	Claudin 8 [Source:HGNC Symbol;Acc:2050]	
CLDN9	Claudin 9 [Source:HGNC Symbol;Acc:2051]	
CLEC17A	C-type lectin domain family 17, member A [Source:HGNC Symbol;Acc:34520]	
CLEC18A	C-type lectin domain family 18, member A [Source:HGNC Symbol;Acc:30388]	
CLEC18B	C-type lectin domain family 18, member B [Source:HGNC Symbol;Acc:33849]	
CLEC18C	C-type lectin domain family 18, member C [Source:HGNC Symbol;Acc:28538]	

CLEC4A	C-type lectin domain family 4, member A [Source:HGNC Symbol;Acc:13257]	
CLEC6A	C-type lectin domain family 6, member A [Source:HGNC Symbol;Acc:14556]	
CLIC3	Chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2064]	
CLINT1	Clathrin interactor 1 [Source:HGNC Symbol;Acc:23186]	
CLIP1	CAP-GLY domain containing linker protein 1 [Source:HGNC Symbol;Acc:10461]	
CLIP2	CAP-GLY domain containing linker protein 2 [Source:HGNC Symbol;Acc:2586]	
CLIP4	CAP-GLY domain containing linker protein family, member 4 [Source:HGNC Symbol;Acc:26108]	
CLK1	CDC-like kinase 1 [Source:HGNC Symbol;Acc:2068]	
CLMN	Calmin (calponin-like, transmembrane) [Source:HGNC Symbol;Acc:19972]	
CLN6	Ceroid-lipofuscinosis, neuronal 6, late infantile, variant [Source:HGNC Symbol;Acc:2077]	
CLN8	Ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation) [Source:HGNC Symbol;Acc:2079]	
CLNK	Cytokine-dependent hematopoietic cell linker [Source:HGNC Symbol;Acc:17438]	
CLOCK	Clock homolog (mouse) [Source:HGNC Symbol;Acc:2082]	
CLP1	CLP1, cleavage and polyadenylation factor I subunit, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:16999]	
CLPTM1L	CLPTM1-like [Source:HGNC Symbol;Acc:24308]	
CLSPN	Claspin [Source:HGNC Symbol;Acc:19715]	
CLTC	Clathrin, heavy chain (Hc)	√
CLVS1	Clavesin 1 [Source:HGNC Symbol;Acc:23139]	
CLYBL	Citrate lyase beta like [Source:HGNC Symbol;Acc:18355]	
CMTM5	CKLF-like MARVEL transmembrane domain containing 5 [Source:HGNC Symbol;Acc:19176]	
CMYA5	Cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14305]	
CNDP1	Carnosine dipeptidase 1 (metallopeptidase M20 family) [Source:HGNC Symbol;Acc:20675]	

CNGB1	Cyclic nucleotide gated channel beta 1 [Source:HGNC Symbol;Acc:2151]	
CNGB3	Cyclic nucleotide gated channel beta 3 [Source:HGNC Symbol;Acc:2153]	
CNIH3	Cornichon homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:26802]	
CNKSR2	Connector enhancer of kinase suppressor of Ras 2 [Source:HGNC Symbol;Acc:19701]	
CNN3	Calponin 3, acidic [Source:HGNC Symbol;Acc:2157]	
CNNM1	Cyclin M1 [Source:HGNC Symbol;Acc:102]	
CNNM2	Cyclin M2 [Source:HGNC Symbol;Acc:103]	
CNO	Cappuccino homolog (mouse) [Source:HGNC Symbol;Acc:24206]	
CNOT1	CCR4-NOT transcription complex, subunit 1 [Source:HGNC Symbol;Acc:7877]	
CNOT10	CCR4-NOT transcription complex, subunit 10 [Source:HGNC Symbol;Acc:23817]	
CNOT6L	CCR4-NOT transcription complex, subunit 6-like [Source:HGNC Symbol;Acc:18042]	
CNOT7	CCR4-NOT transcription complex, subunit 7 [Source:HGNC Symbol;Acc:14101]	
CNP	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:HGNC Symbol;Acc:2158]	
CNR1	Cannabinoid receptor 1 (brain) [Source:HGNC Symbol;Acc:2159]	
CNR2	Cannabinoid receptor 2 (macrophage) [Source:HGNC Symbol;Acc:2160]	
CNRIP1	Cannabinoid receptor interacting protein 1 [Source:HGNC Symbol;Acc:24546]	
CNST	Consortin, connexin sorting protein [Source:HGNC Symbol;Acc:26486]	
CNTN2	Contactin 2 (axonal) [Source:HGNC Symbol;Acc:2172]	
CNTN3	Contactin 3 (plasmacytoma associated) [Source:HGNC Symbol;Acc:2173]	
CNTN6	Contactin 6 [Source:HGNC Symbol;Acc:2176]	
CNTNAP1	Contactin associated protein 1 [Source:HGNC Symbol;Acc:8011]	
CNTNAP2	Contactin associated protein-like 2 [Source:HGNC Symbol;Acc:13830]	
CNTNAP4	Contactin associated protein-like 4 [Source:HGNC Symbol;Acc:18747]	
CNTNAP5	Contactin associated protein-like 5 [Source:HGNC Symbol;Acc:18748]	
CNTROB	Centrobin, centrosomal BRCA2 interacting protein [Source:HGNC Symbol;Acc:29616]	

COASY	Coa synthase [Source:HGNC Symbol;Acc:29932]	
COBL	Cordon-bleu homolog (mouse) [Source:HGNC Symbol;Acc:22199]	
COBLL1	COBL-like 1 [Source:HGNC Symbol;Acc:23571]	
COG5	Component of oligomeric golgi complex 5 [Source:HGNC Symbol;Acc:14857]	
COG8	Component of oligomeric golgi complex 8 [Source:HGNC Symbol;Acc:18623]	
COL12A1	Collagen, type XII, alpha 1 [Source:HGNC Symbol;Acc:2188]	
COL14A1	Collagen, type XIV, alpha 1 [Source:HGNC Symbol;Acc:2191]	
COL16A1	Collagen, type XVI, alpha 1 [Source:HGNC Symbol;Acc:2193]	
COL17A1	Collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]	
COL19A1	Collagen, type XIX, alpha 1 [Source:HGNC Symbol;Acc:2196]	
COL1A1	Collagen, type I, alpha 1	√
COL20A1	Collagen, type XX, alpha 1 [Source:HGNC Symbol;Acc:14670]	
COL22A1	Collagen, type XXII, alpha 1 [Source:HGNC Symbol;Acc:22989]	
COL23A1	Collagen, type XXIII, alpha 1 [Source:HGNC Symbol;Acc:22990]	
COL27A1	Collagen, type XXVII, alpha 1 [Source:HGNC Symbol;Acc:22986]	
COL28A1	Collagen, type XXVIII, alpha 1 [Source:HGNC Symbol;Acc:22442]	
COL3A1	Collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]	
COL4A4	Collagen, type IV, alpha 4 [Source:HGNC Symbol;Acc:2206]	
COL5A1	Collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]	
COL5A2	Collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]	
COL6A2	Collagen, type VI, alpha 2 [Source:HGNC Symbol;Acc:2212]	
COL6A3	Collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]	
COL6A5	Collagen, type VI, alpha 5 [Source:HGNC Symbol;Acc:26674]	
COL6A6	Collagen, type VI, alpha 6 [Source:HGNC Symbol;Acc:27023]	
COL7A1	Collagen, type VII, alpha 1 [Source:HGNC Symbol;Acc:2214]	
COL9A2	Collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]	
COL9A3	Collagen, type IX, alpha 3 [Source:HGNC Symbol;Acc:2219]	
COLEC12	Collectin sub-family member 12 [Source:HGNC Symbol;Acc:16016]	
COLQ	Collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase [Source:HGNC Symbol;Acc:2226]	
COMMD3	COMM domain containing 3 [Source:HGNC Symbol;Acc:23332]	

COMMD7	COMM domain containing 7 [Source:HGNC Symbol;Acc:16223]	
COMP	Cartilage oligomeric matrix protein [Source:HGNC Symbol;Acc:2227]	
COMT	Catechol-O-methyltransferase [Source:HGNC Symbol;Acc:2228]	
COPB2	Coatomer protein complex, subunit beta 2 (beta prime) [Source:HGNC Symbol;Acc:2232]	
COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis) [Source:HGNC Symbol;Acc:30747]	
COPS4	COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis) [Source:HGNC Symbol;Acc:16702]	
COPS6	COP9 constitutive photomorphogenic homolog subunit 6 (Arabidopsis) [Source:HGNC Symbol;Acc:21749]	
COPS7A	COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) [Source:HGNC Symbol;Acc:16758]	
COPS7B	COP9 constitutive photomorphogenic homolog subunit 7B (Arabidopsis) [Source:HGNC Symbol;Acc:16760]	
COPS8	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis) [Source:HGNC Symbol;Acc:24335]	
COPZ1	Coatomer protein complex, subunit zeta 1 [Source:HGNC Symbol;Acc:2243]	
COQ4	Coenzyme Q4 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:19693]	
COQ9	Coenzyme Q9 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25302]	
CORIN	Corin, serine peptidase [Source:HGNC Symbol;Acc:19012]	
CORO1B	Coronin, actin binding protein, 1B [Source:HGNC Symbol;Acc:2253]	
CORO1C	Coronin, actin binding protein, 1C [Source:HGNC Symbol;Acc:2254]	
CORO2A	Coronin, actin binding protein, 2A [Source:HGNC Symbol;Acc:2255]	
CORO2B	Coronin, actin binding protein, 2B [Source:HGNC Symbol;Acc:2256]	
CORO7	Coronin 7 [Source:HGNC Symbol;Acc:26161]	
COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast) [Source:HGNC Symbol;Acc:2263]	
COX18	COX18 cytochrome c oxidase assembly homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:26801]	
COX19	COX19 cytochrome c oxidase assembly homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:28074]	

COX4I1	Cytochrome c oxidase subunit IV isoform 1 [Source:HGNC Symbol;Acc:2265]	
COX6B2	Cytochrome c oxidase subunit vib polypeptide 2 (testis) [Source:HGNC Symbol;Acc:24380]	
CPA1	Carboxypeptidase A1 (pancreatic) [Source:HGNC Symbol;Acc:2296]	
CPA2	Carboxypeptidase A2 (pancreatic) [Source:HGNC Symbol;Acc:2297]	
CPA3	Carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:2298]	
CPA5	Carboxypeptidase A5 [Source:HGNC Symbol;Acc:15722]	
CPAMD8	C3 and PZP-like, alpha-2-macroglobulin domain containing 8 [Source:HGNC Symbol;Acc:23228]	
CPB1	Carboxypeptidase B1 (tissue) [Source:HGNC Symbol;Acc:2299]	
CPEB1	Cytoplasmic polyadenylation element binding protein 1 [Source:HGNC Symbol;Acc:21744]	
CPLX4	Complexin 4 [Source:HGNC Symbol;Acc:24330]	
CPM	Carboxypeptidase M [Source:HGNC Symbol;Acc:2311]	
CPNE2	Copine II [Source:HGNC Symbol;Acc:2315]	
CPNE3	Copine III [Source:HGNC Symbol;Acc:2316]	
CPNE4	Copine IV [Source:HGNC Symbol;Acc:2317]	
CPNE5	Copine V [Source:HGNC Symbol;Acc:2318]	
CPNE8	Copine VIII [Source:HGNC Symbol;Acc:23498]	
CPNE9	Copine family member IX [Source:HGNC Symbol;Acc:24336]	
CPOX	Coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:2321]	
CPPED1	Calcineurin-like phosphoesterase domain containing 1 [Source:HGNC Symbol;Acc:25632]	
CPSF2	Cleavage and polyadenylation specific factor 2, 100kda [Source:HGNC Symbol;Acc:2325]	
CPSF4L	Cleavage and polyadenylation specific factor 4-like [Source:HGNC Symbol;Acc:33632]	
CPT1A	Carnitine palmitoyltransferase 1A (liver) [Source:HGNC Symbol;Acc:2328]	
CPT1B	Carnitine palmitoyltransferase 1B (muscle) [Source:HGNC Symbol;Acc:2329]	
CR1	Complement component (3b/4b) receptor 1 (Knops blood group) [Source:HGNC Symbol;Acc:2334]	

CR1L	Complement component (3b/4b) receptor 1-like [Source:HGNC Symbol;Acc:2335]	
CR2	Complement component (3d/Epstein Barr virus) receptor 2 [Source:HGNC Symbol;Acc:2336]	
CR381653.1		
CRAMP1L	Crm, cramped-like (Drosophila) [Source:HGNC Symbol;Acc:14122]	
CRAT	Carnitine O-acetyltransferase [Source:HGNC Symbol;Acc:2342]	
CRB1	Crumbs homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:2343]	
CRB2	Crumbs homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:18688]	
CRCP	CGRP receptor component [Source:HGNC Symbol;Acc:17888]	
CREB1	cAMP responsive element binding protein 1	√
CREB3	cAMP responsive element binding protein 3 [Source:HGNC Symbol;Acc:2347]	
CREB3L2	cAMP responsive element binding protein 3-like 2	√
CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:16844]	
CREG2	Cellular repressor of E1A-stimulated genes 2 [Source:HGNC Symbol;Acc:14272]	
CRELD1	Cysteine-rich with EGF-like domains 1 [Source:HGNC Symbol;Acc:14630]	
CRELD2	Cysteine-rich with EGF-like domains 2 [Source:HGNC Symbol;Acc:28150]	
CRHR2	Corticotropin releasing hormone receptor 2 [Source:HGNC Symbol;Acc:2358]	
CRIM1	Cysteine rich transmembrane BMP regulator 1 (chordin-like) [Source:HGNC Symbol;Acc:2359]	
CRIPAK	Cysteine-rich PAK1 inhibitor [Source:HGNC Symbol;Acc:26619]	
CRISPLD2	Cysteine-rich secretory protein LCCL domain containing 2 [Source:HGNC Symbol;Acc:25248]	
CRK	V-crk sarcoma virus CT10 oncogene homolog (avian) [Source:HGNC Symbol;Acc:2362]	
CRKL	V-crk sarcoma virus CT10 oncogene homolog (avian)-like [Source:HGNC Symbol;Acc:2363]	
CRLF3	Cytokine receptor-like factor 3 [Source:HGNC Symbol;Acc:17177]	
CRLS1	Cardiolipin synthase 1 [Source:HGNC Symbol;Acc:16148]	

CRMP1	Collapsin response mediator protein 1 [Source:HGNC Symbol;Acc:2365]	
CROCC	Ciliary rootlet coiled-coil, rootletin [Source:HGNC Symbol;Acc:21299]	
CROT	Carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:2366]	
CRTC2	CREB regulated transcription coactivator 2 [Source:HGNC Symbol;Acc:27301]	
CRTC3	CREB regulated transcription coactivator 3	√
CRX	Cone-rod homeobox [Source:HGNC Symbol;Acc:2383]	
CRY2	Cryptochrome 2 (photolyase-like) [Source:HGNC Symbol;Acc:2385]	
CRYBA2	Crystallin, beta A2 [Source:HGNC Symbol;Acc:2395]	
CRYBB1	Crystallin, beta B1 [Source:HGNC Symbol;Acc:2397]	
CRYGA	Crystallin, gamma A [Source:HGNC Symbol;Acc:2408]	
CRYGC	Crystallin, gamma C [Source:HGNC Symbol;Acc:2410]	
CRYGD	Crystallin, gamma D [Source:HGNC Symbol;Acc:2411]	
CRYM	Crystallin, mu [Source:HGNC Symbol;Acc:2418]	
CS	Citrate synthase [Source:HGNC Symbol;Acc:2422]	
CSAD	Cysteine sulfinic acid decarboxylase [Source:HGNC Symbol;Acc:18966]	
CSDC2	Cold shock domain containing C2, RNA binding [Source:HGNC Symbol;Acc:30359]	
CSDE1	Cold shock domain containing E1, RNA-binding [Source:HGNC Symbol;Acc:29905]	
CSF2RA	Colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) [Source:HGNC Symbol;Acc:2435]	
CSF2RB	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) [Source:HGNC Symbol;Acc:2436]	
CSGALNACT2	Chondroitin sulfate N-acetylgalactosaminyltransferase 2 [Source:HGNC Symbol;Acc:24292]	
CSMD1	CUB and Sushi multiple domains 1 [Source:HGNC Symbol;Acc:14026]	
CSMD2	CUB and Sushi multiple domains 2 [Source:HGNC Symbol;Acc:19290]	
CSNK1G1	Casein kinase 1, gamma 1 [Source:HGNC Symbol;Acc:2454]	
CSNK1G3	Casein kinase 1, gamma 3 [Source:HGNC Symbol;Acc:2456]	
CSPG4	Chondroitin sulfate proteoglycan 4 [Source:HGNC Symbol;Acc:2466]	
CSRNP1	Cysteine-serine-rich nuclear protein 1 [Source:HGNC Symbol;Acc:14300]	
CSRNP3	Cysteine-serine-rich nuclear protein 3 [Source:HGNC Symbol;Acc:30729]	

CTB-25P15.2	ANKHD1-EIF4EBP3 protein [Source:refseq peptide;Acc:NP_065741]	
CTBP1	C-terminal binding protein 1 [Source:HGNC Symbol;Acc:2494]	
CTBP2	C-terminal binding protein 2 [Source:HGNC Symbol;Acc:2495]	
CTC1	CTS telomere maintenance complex component 1 [Source:HGNC Symbol;Acc:26169]	
CTCF	CCCTC-binding factor (zinc finger protein) [Source:HGNC Symbol;Acc:13723]	
CTCFL	CCCTC-binding factor (zinc finger protein)-like [Source:HGNC Symbol;Acc:16234]	
CTD-2170G1.1	Uncharacterized protein FLJ37543 [Source:uniprotkb/Swiss-Prot;Acc:Q2M2E5]	
CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 [Source:HGNC Symbol;Acc:17077]	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like [Source:HGNC Symbol;Acc:16890]	
CTGF	Connective tissue growth factor [Source:HGNC Symbol;Acc:2500]	
CTHRC1	Collagen triple helix repeat containing 1 [Source:HGNC Symbol;Acc:18831]	
CTNNB1	Catenin (cadherin-associated protein), beta 1, 88 kDa	√
CTNNBIP1	Catenin, beta interacting protein 1 [Source:HGNC Symbol;Acc:16913]	
CTNNBL1	Catenin, beta like 1 [Source:HGNC Symbol;Acc:15879]	
CTNND1	Catenin (cadherin-associated protein), delta 1 [Source:HGNC Symbol;Acc:2515]	
CTNND2	Catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) [Source:HGNC Symbol;Acc:2516]	
CTPS2	CTP synthase II [Source:HGNC Symbol;Acc:2520]	
CTSA	Cathepsin A [Source:HGNC Symbol;Acc:9251]	
CTSC	Cathepsin C [Source:HGNC Symbol;Acc:2528]	
CTSZ	Cathepsin Z [Source:HGNC Symbol;Acc:2547]	
CTTNBP2	Cortactin binding protein 2 [Source:HGNC Symbol;Acc:15679]	
CTXN1	Cortexin 1 [Source:HGNC Symbol;Acc:31108]	
CUBN	Cubilin (intrinsic factor-cobalamin receptor) [Source:HGNC Symbol;Acc:2548]	
CUEDC2	CUE domain containing 2 [Source:HGNC Symbol;Acc:28352]	

CUL2	Cullin 2 [Source:HGNC Symbol;Acc:2552]	
CUL3	Cullin 3 [Source:HGNC Symbol;Acc:2553]	
CUL4B	Cullin 4B [Source:HGNC Symbol;Acc:2555]	
CUL7	Cullin 7 [Source:HGNC Symbol;Acc:21024]	
CUX1	Cut-like homeobox 1 [Source:HGNC Symbol;Acc:2557]	
CWC22	CWC22 spliceosome-associated protein homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29322]	
CWC27	CWC27 spliceosome-associated protein homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:10664]	
CXCL5	Chemokine (C-X-C motif) ligand 5 [Source:HGNC Symbol;Acc:10642]	
CXCL9	Chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Acc:7098]	
CXCR4	Chemokine (C-X-C motif) receptor 4 [Source:HGNC Symbol;Acc:2561]	
CXCR5	Chemokine (C-X-C motif) receptor 5 [Source:HGNC Symbol;Acc:1060]	
CXCR6	Chemokine (C-X-C motif) receptor 6 [Source:HGNC Symbol;Acc:16647]	
CXorf23	Chromosome X open reading frame 23 [Source:HGNC Symbol;Acc:27413]	
CXorf26	Chromosome X open reading frame 26 [Source:HGNC Symbol;Acc:28790]	
CXorf31	Chromosome X open reading frame 31 [Source:HGNC Symbol;Acc:17986]	
CXorf36	Chromosome X open reading frame 36 [Source:HGNC Symbol;Acc:25866]	
CXorf38	Chromosome X open reading frame 38 [Source:HGNC Symbol;Acc:28589]	
CXorf40B	Chromosome X open reading frame 40B [Source:HGNC Symbol;Acc:17402]	
CXorf56	Chromosome X open reading frame 56 [Source:HGNC Symbol;Acc:26239]	
CXorf57	Chromosome X open reading frame 57 [Source:HGNC Symbol;Acc:25486]	
CXorf58	Chromosome X open reading frame 58 [Source:HGNC Symbol;Acc:26356]	
CXXC4	CXXC finger protein 4 [Source:HGNC Symbol;Acc:24593]	
CYB5B	Cytochrome b5 type B (outer mitochondrial membrane) [Source:HGNC Symbol;Acc:24374]	
CYB5D1	Cytochrome b5 domain containing 1 [Source:HGNC Symbol;Acc:26516]	
CYB5R2	Cytochrome b5 reductase 2 [Source:HGNC Symbol;Acc:24376]	
CYBRD1	Cytochrome b reductase 1 [Source:HGNC Symbol;Acc:20797]	
CYLD	Cylindromatosis (turban tumor syndrome)	√
CYP11A1	Cytochrome P450, family 11, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:2590]	

CYP11B2	Cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:HGNC Symbol;Acc:2592]	
CYP19A1	Cytochrome P450, family 19, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:2594]	
CYP2B6	Cytochrome P450, family 2, subfamily B, polypeptide 6 [Source:HGNC Symbol;Acc:2615]	
CYP2C19	Cytochrome P450, family 2, subfamily C, polypeptide 19 [Source:HGNC Symbol;Acc:2621]	
CYP2C8	Cytochrome P450, family 2, subfamily C, polypeptide 8 [Source:HGNC Symbol;Acc:2622]	
CYP2D6	Cytochrome P450, family 2, subfamily D, polypeptide 6 [Source:HGNC Symbol;Acc:2625]	
CYP2D7P1	Cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 1 [Source:HGNC Symbol;Acc:2624]	
CYP2R1	Cytochrome P450, family 2, subfamily R, polypeptide 1 [Source:HGNC Symbol;Acc:20580]	
CYP2U1	Cytochrome P450, family 2, subfamily U, polypeptide 1 [Source:HGNC Symbol;Acc:20582]	
CYP3A4	Cytochrome P450, family 3, subfamily A, polypeptide 4 [Source:HGNC Symbol;Acc:2637]	
CYP3A43	Cytochrome P450, family 3, subfamily A, polypeptide 43 [Source:HGNC Symbol;Acc:17450]	
CYP3A5	Cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:HGNC Symbol;Acc:2638]	
CYP3A7	Cytochrome P450, family 3, subfamily A, polypeptide 7 [Source:HGNC Symbol;Acc:2640]	
CYP4A22	Cytochrome P450, family 4, subfamily A, polypeptide 22 [Source:HGNC Symbol;Acc:20575]	
CYP4F12	Cytochrome P450, family 4, subfamily F, polypeptide 12 [Source:HGNC Symbol;Acc:18857]	
CYP4F2	Cytochrome P450, family 4, subfamily F, polypeptide 2 [Source:HGNC Symbol;Acc:2645]	

CYP4F8	Cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:HGNC Symbol;Acc:2648]	
CYP4Z1	Cytochrome P450, family 4, subfamily Z, polypeptide 1 [Source:HGNC Symbol;Acc:20583]	
CYR61	Cysteine-rich, angiogenic inducer, 61 [Source:HGNC Symbol;Acc:2654]	
CYSLTR2	Cysteinyl leukotriene receptor 2 [Source:HGNC Symbol;Acc:18274]	
CYTH2	Cytohesin 2 [Source:HGNC Symbol;Acc:9502]	
CYTH3	Cytohesin 3 [Source:HGNC Symbol;Acc:9504]	
CYTH4	Cytohesin 4 [Source:HGNC Symbol;Acc:9505]	
D2HGDH	D-2-hydroxyglutarate dehydrogenase [Source:HGNC Symbol;Acc:28358]	
D87023.1	Immunoglobulin lambda-like polypeptide 5 [Source:refseq peptide;Acc:NP_001171597]	
DAAM1	Dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:18142]	
DAAM2	Dishevelled associated activator of morphogenesis 2 [Source:HGNC Symbol;Acc:18143]	
DAB2IP	DAB2 interacting protein [Source:HGNC Symbol;Acc:17294]	
DACH2	Dachshund homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:16814]	
DACT1	Dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis) [Source:HGNC Symbol;Acc:17748]	
DAG1	Dystroglycan 1 (dystrophin-associated glycoprotein 1) [Source:HGNC Symbol;Acc:2666]	
DAGLA	Diacylglycerol lipase, alpha [Source:HGNC Symbol;Acc:1165]	
DAGLB	Diacylglycerol lipase, beta [Source:HGNC Symbol;Acc:28923]	
DAPK1	Death-associated protein kinase 1 [Source:HGNC Symbol;Acc:2674]	
DAPK2	Death-associated protein kinase 2 [Source:HGNC Symbol;Acc:2675]	
DARC	Duffy blood group, chemokine receptor [Source:HGNC Symbol;Acc:4035]	
DAZ1	Deleted in azoospermia 1 [Source:HGNC Symbol;Acc:2682]	
DAZ2	Deleted in azoospermia 2 [Source:HGNC Symbol;Acc:15964]	
DAZ3	Deleted in azoospermia 3 [Source:HGNC Symbol;Acc:15965]	
DAZ4	Deleted in azoospermia 4 [Source:HGNC Symbol;Acc:15966]	
DBF4B	DBF4 homolog B (S. Cerevisiae) [Source:HGNC Symbol;Acc:17883]	

DBNDD2	Dysbindin (dystrobrevin binding protein 1) domain containing 2 [Source:HGNC Symbol;Acc:15881]	
DBNL	Drebrin-like [Source:HGNC Symbol;Acc:2696]	
DBP	D site of albumin promoter (albumin D-box) binding protein [Source:HGNC Symbol;Acc:2697]	
DBX2	Developing brain homeobox 2 [Source:HGNC Symbol;Acc:33186]	
DCAF11	DDB1 and CUL4 associated factor 11 [Source:HGNC Symbol;Acc:20258]	
DCAF4	DDB1 and CUL4 associated factor 4 [Source:HGNC Symbol;Acc:20229]	
DCAF4L1	DDB1 and CUL4 associated factor 4-like 1 [Source:HGNC Symbol;Acc:27723]	
DCAF7	DDB1 and CUL4 associated factor 7 [Source:HGNC Symbol;Acc:30915]	
DCBLD1	Discoidin, CUB and LCCL domain containing 1 [Source:HGNC Symbol;Acc:21479]	
DCC	Deleted in colorectal carcinoma [Source:HGNC Symbol;Acc:2701]	
DCDC1	Doublecortin domain containing 1 [Source:HGNC Symbol;Acc:20625]	
DCDC5	Doublecortin domain containing 5 [Source:HGNC Symbol;Acc:24799]	
DCHS1	Dachsous 1 (Drosophila) [Source:HGNC Symbol;Acc:13681]	
DCHS2	Dachsous 2 (Drosophila) [Source:HGNC Symbol;Acc:23111]	
DCI	Dodecenoyl-coa isomerase [Source:HGNC Symbol;Acc:2703]	
DCK	Deoxycytidine kinase [Source:HGNC Symbol;Acc:2704]	
DCLK1	Doublecortin-like kinase 1 [Source:HGNC Symbol;Acc:2700]	
DCLRE1A	DNA cross-link repair 1A [Source:HGNC Symbol;Acc:17660]	
DCLRE1C	DNA cross-link repair 1C [Source:HGNC Symbol;Acc:17642]	
DCN	Decorin [Source:HGNC Symbol;Acc:2705]	
DCT	Dopachrome tautomerase (dopachrome delta-isomerase, tyrosine-related protein 2) [Source:HGNC Symbol;Acc:2709]	
DCTD	Dcmp deaminase [Source:HGNC Symbol;Acc:2710]	
DCTN1	Dynactin 1 [Source:HGNC Symbol;Acc:2711]	
DCTN3	Dynactin 3 (p22) [Source:HGNC Symbol;Acc:2713]	
DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. Cerevisiae) [Source:HGNC Symbol;Acc:18184]	
DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:20328]	

DCUN1D3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. Cerevisiae) [Source:HGNC Symbol;Acc:28734]	
DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4 (S. Cerevisiae) [Source:HGNC Symbol;Acc:28998]	
DDA1	DET1 and DDB1 associated 1 [Source:HGNC Symbol;Acc:28360]	
DDAH1	Dimethylarginine dimethylaminohydrolase 1 [Source:HGNC Symbol;Acc:2715]	
DDB1	Damage-specific DNA binding protein 1, 127kda [Source:HGNC Symbol;Acc:2717]	
DDI1	DNA-damage inducible 1 homolog 1 (S. Cerevisiae) [Source:HGNC Symbol;Acc:18961]	
DDI2	DNA-damage inducible 1 homolog 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:24578]	
DDIT4L	DNA-damage-inducible transcript 4-like [Source:HGNC Symbol;Acc:30555]	
DDN	Dendrin [Source:HGNC Symbol;Acc:24458]	
DDR1	Discoidin domain receptor tyrosine kinase 1 [Source:HGNC Symbol;Acc:2730]	
DDR2	Discoidin domain receptor tyrosine kinase 2 [Source:HGNC Symbol;Acc:2731]	
DDX1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 [Source:HGNC Symbol;Acc:2734]	
DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 [Source:HGNC Symbol;Acc:2736]	
DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17 [Source:HGNC Symbol;Acc:2740]	
DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A [Source:HGNC Symbol;Acc:25628]	
DDX27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 [Source:HGNC Symbol;Acc:15837]	
DDX39A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A [Source:HGNC Symbol;Acc:17821]	

DDX39B	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B [Source:HGNC Symbol;Acc:13917]	
DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked [Source:HGNC Symbol;Acc:2745]	
DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked [Source:HGNC Symbol;Acc:2699]	
DDX43	DEAD (Asp-Glu-Ala-Asp) box polypeptide 43 [Source:HGNC Symbol;Acc:18677]	
DDX47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 [Source:HGNC Symbol;Acc:18682]	
DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	√
DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51 [Source:HGNC Symbol;Acc:20082]	
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 [Source:HGNC Symbol;Acc:20038]	
DDX53	DEAD (Asp-Glu-Ala-Asp) box polypeptide 53 [Source:HGNC Symbol;Acc:20083]	
DDX59	DEAD (Asp-Glu-Ala-Asp) box polypeptide 59 [Source:HGNC Symbol;Acc:25360]	
DECR1	2,4-dienoyl coa reductase 1, mitochondrial [Source:HGNC Symbol;Acc:2753]	
DEDD	Death effector domain containing [Source:HGNC Symbol;Acc:2755]	
DEF6	Differentially expressed in FDCP 6 homolog (mouse) [Source:HGNC Symbol;Acc:2760]	
DEF8	Differentially expressed in FDCP 8 homolog (mouse) [Source:HGNC Symbol;Acc:25969]	
DEFB119	Defensin, beta 119 [Source:HGNC Symbol;Acc:18099]	
DEGS1	Degenerative spermatocyte homolog 1, lipid desaturase (Drosophila) [Source:HGNC Symbol;Acc:13709]	
DENND2C	DENN/MADD domain containing 2C [Source:HGNC Symbol;Acc:24748]	
DENND3	DENN/MADD domain containing 3 [Source:HGNC Symbol;Acc:29134]	
DENND4A	DENN/MADD domain containing 4A [Source:HGNC Symbol;Acc:24321]	
DENND4B	DENN/MADD domain containing 4B [Source:HGNC Symbol;Acc:29044]	

DENND5A	DENN/MADD domain containing 5A [Source:HGNC Symbol;Acc:19344]	
DENND5B	DENN/MADD domain containing 5B [Source:HGNC Symbol;Acc:28338]	
DET1	De-etiolated homolog 1 (Arabidopsis) [Source:HGNC Symbol;Acc:25477]	
DEXI	Dexi homolog (mouse) [Source:HGNC Symbol;Acc:13267]	
DFNA5	Deafness, autosomal dominant 5 [Source:HGNC Symbol;Acc:2810]	
DFNB59	Deafness, autosomal recessive 59 [Source:HGNC Symbol;Acc:29502]	
DGCR8	Digeorge syndrome critical region gene 8 [Source:HGNC Symbol;Acc:2847]	
DGKA	Diacylglycerol kinase, alpha 80kda [Source:HGNC Symbol;Acc:2849]	
DGKB	Diacylglycerol kinase, beta 90kda [Source:HGNC Symbol;Acc:2850]	
DGKD	Diacylglycerol kinase, delta 130kda [Source:HGNC Symbol;Acc:2851]	
DGKG	Diacylglycerol kinase, gamma 90kda [Source:HGNC Symbol;Acc:2853]	
DGKH	Diacylglycerol kinase, eta [Source:HGNC Symbol;Acc:2854]	
DGKQ	Diacylglycerol kinase, theta 110kda [Source:HGNC Symbol;Acc:2856]	
DGKZ	Diacylglycerol kinase, zeta [Source:HGNC Symbol;Acc:2857]	
DGUOK	Deoxyguanosine kinase [Source:HGNC Symbol;Acc:2858]	
DHODH	Dihydroorotate dehydrogenase [Source:HGNC Symbol;Acc:2867]	
DHRS1	Dehydrogenase/reductase (SDR family) member 1 [Source:HGNC Symbol;Acc:16445]	
DHRS11	Dehydrogenase/reductase (SDR family) member 11 [Source:HGNC Symbol;Acc:28639]	
DHRS2	Dehydrogenase/reductase (SDR family) member 2 [Source:HGNC Symbol;Acc:18349]	
DHRS3	Dehydrogenase/reductase (SDR family) member 3 [Source:HGNC Symbol;Acc:17693]	
DHRS4	Dehydrogenase/reductase (SDR family) member 4 [Source:HGNC Symbol;Acc:16985]	
DHRS4L2	Dehydrogenase/reductase (SDR family) member 4 like 2 [Source:HGNC Symbol;Acc:19731]	
DHTKD1	Dehydrogenase E1 and transketolase domain containing 1 [Source:HGNC Symbol;Acc:23537]	
DHX16	DEAH (Asp-Glu-Ala-His) box polypeptide 16 [Source:HGNC Symbol;Acc:2739]	

DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35 [Source:HGNC Symbol;Acc:15861]	
DHX38	DEAH (Asp-Glu-Ala-His) box polypeptide 38 [Source:HGNC Symbol;Acc:17211]	
DHX58	DEXH (Asp-Glu-X-His) box polypeptide 58 [Source:HGNC Symbol;Acc:29517]	
DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8 [Source:HGNC Symbol;Acc:2749]	
DIABLO	Diablo homolog (Drosophila) [Source:HGNC Symbol;Acc:21528]	
DIAPH2	Diaphanous homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:2877]	
DIAPH3	Diaphanous homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:15480]	
DICER1	Dicer 1, ribonuclease type III	√
DIDO1	Death inducer-obliterator 1 [Source:HGNC Symbol;Acc:2680]	
DIEXF	Digestive organ expansion factor homolog (zebrafish) [Source:HGNC Symbol;Acc:28440]	
DIO3	Deiodinase, iodothyronine, type III [Source:HGNC Symbol;Acc:2885]	
DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila) [Source:HGNC Symbol;Acc:29284]	
DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila) [Source:HGNC Symbol;Acc:29150]	
DIRAS1	DIRAS family, GTP-binding RAS-like 1 [Source:HGNC Symbol;Acc:19127]	
DIS3L	DIS3 mitotic control homolog (S. Cerevisiae)-like [Source:HGNC Symbol;Acc:28698]	
DISC1	Disrupted in schizophrenia 1 [Source:HGNC Symbol;Acc:2888]	
DISP2	Dispatched homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:19712]	
DKC1	Dyskeratosis congenita 1, dyskerin [Source:HGNC Symbol;Acc:2890]	
DLAT	Dihydrolipoamide S-acetyltransferase [Source:HGNC Symbol;Acc:2896]	
DLC1	Deleted in liver cancer 1 [Source:HGNC Symbol;Acc:2897]	
DLEC1	Deleted in lung and esophageal cancer 1 [Source:HGNC Symbol;Acc:2899]	
DLEU7	Deleted in lymphocytic leukemia, 7 [Source:HGNC Symbol;Acc:17567]	
DLG2	Discs, large homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:2901]	
DLG3	Discs, large homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:2902]	

DLG5	Discs, large homolog 5 (Drosophila) [Source:HGNC Symbol;Acc:2904]	
DLGAP1	Discs, large (Drosophila) homolog-associated protein 1 [Source:HGNC Symbol;Acc:2905]	
DLGAP2	Discs, large (Drosophila) homolog-associated protein 2 [Source:HGNC Symbol;Acc:2906]	
DLGAP5	Discs, large (Drosophila) homolog-associated protein 5 [Source:HGNC Symbol;Acc:16864]	
DLK1	Delta-like 1 homolog (Drosophila) [Source:HGNC Symbol;Acc:2907]	
DLL1	Delta-like 1 (Drosophila) [Source:HGNC Symbol;Acc:2908]	
DLL3	Delta-like 3 (Drosophila) [Source:HGNC Symbol;Acc:2909]	
DLX4	Distal-less homeobox 4 [Source:HGNC Symbol;Acc:2917]	
DLX5	Distal-less homeobox 5 [Source:HGNC Symbol;Acc:2918]	
DMD	Dystrophin [Source:HGNC Symbol;Acc:2928]	
DMGDH	Dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:24475]	
DMRT1	Doublesex and mab-3 related transcription factor 1 [Source:HGNC Symbol;Acc:2934]	
DMRT3	Doublesex and mab-3 related transcription factor 3 [Source:HGNC Symbol;Acc:13909]	
DMRTA2	DMRT-like family A2 [Source:HGNC Symbol;Acc:13908]	
DMRTC2	DMRT-like family C2 [Source:HGNC Symbol;Acc:13911]	
DMXL1	Dmx-like 1 [Source:HGNC Symbol;Acc:2937]	
DMXL2	Dmx-like 2 [Source:HGNC Symbol;Acc:2938]	
DNAH10	Dynein, axonemal, heavy chain 10 [Source:HGNC Symbol;Acc:2941]	
DNAH11	Dynein, axonemal, heavy chain 11 [Source:HGNC Symbol;Acc:2942]	
DNAH12	Dynein, axonemal, heavy chain 12 [Source:HGNC Symbol;Acc:2943]	
DNAH14	Dynein, axonemal, heavy chain 14 [Source:HGNC Symbol;Acc:2945]	
DNAH17	Dynein, axonemal, heavy chain 17 [Source:HGNC Symbol;Acc:2946]	
DNAH2	Dynein, axonemal, heavy chain 2 [Source:HGNC Symbol;Acc:2948]	
DNAH3	Dynein, axonemal, heavy chain 3 [Source:HGNC Symbol;Acc:2949]	
DNAH5	Dynein, axonemal, heavy chain 5 [Source:HGNC Symbol;Acc:2950]	
DNAH6	Dynein, axonemal, heavy chain 6 [Source:HGNC Symbol;Acc:2951]	
DNAH7	Dynein, axonemal, heavy chain 7 [Source:HGNC Symbol;Acc:18661]	
DNAH8	Dynein, axonemal, heavy chain 8 [Source:HGNC Symbol;Acc:2952]	

DNAH9	Dynein, axonemal, heavy chain 9 [Source:HGNC Symbol;Acc:2953]	
DNAJB1	Dnaj (Hsp40) homolog, subfamily B, member 1 [Source:HGNC Symbol;Acc:5270]	
DNAJB12	Dnaj (Hsp40) homolog, subfamily B, member 12 [Source:HGNC Symbol;Acc:14891]	
DNAJB13	Dnaj (Hsp40) homolog, subfamily B, member 13 [Source:HGNC Symbol;Acc:30718]	
DNAJB2	Dnaj (Hsp40) homolog, subfamily B, member 2 [Source:HGNC Symbol;Acc:5228]	
DNAJB4	Dnaj (Hsp40) homolog, subfamily B, member 4 [Source:HGNC Symbol;Acc:14886]	
DNAJB7	Dnaj (Hsp40) homolog, subfamily B, member 7 [Source:HGNC Symbol;Acc:24986]	
DNAJC1	Dnaj (Hsp40) homolog, subfamily C, member 1 [Source:HGNC Symbol;Acc:20090]	
DNAJC10	Dnaj (Hsp40) homolog, subfamily C, member 10 [Source:HGNC Symbol;Acc:24637]	
DNAJC14	Dnaj (Hsp40) homolog, subfamily C, member 14 [Source:HGNC Symbol;Acc:24581]	
DNAJC15	Dnaj (Hsp40) homolog, subfamily C, member 15 [Source:HGNC Symbol;Acc:20325]	
DNAJC2	Dnaj (Hsp40) homolog, subfamily C, member 2 [Source:HGNC Symbol;Acc:13192]	
DNAJC27	Dnaj (Hsp40) homolog, subfamily C, member 27 [Source:HGNC Symbol;Acc:30290]	
DNAJC3	Dnaj (Hsp40) homolog, subfamily C, member 3 [Source:HGNC Symbol;Acc:9439]	
DNAJC6	Dnaj (Hsp40) homolog, subfamily C, member 6 [Source:HGNC Symbol;Acc:15469]	
DNAJC7	Dnaj (Hsp40) homolog, subfamily C, member 7 [Source:HGNC Symbol;Acc:12392]	
DNASE2	Deoxyribonuclease II, lysosomal [Source:HGNC Symbol;Acc:2960]	
DNER	Delta/notch-like EGF repeat containing [Source:HGNC Symbol;Acc:24456]	

DNHD1	Dynein heavy chain domain 1 [Source:HGNC Symbol;Acc:26532]	
DNLZ	DNL-type zinc finger [Source:HGNC Symbol;Acc:33879]	
DNM2	Dynamin 2	√
DNMBP	Dynamin binding protein [Source:HGNC Symbol;Acc:30373]	
DNMT1	DNA (cytosine-5-)-methyltransferase 1 [Source:HGNC Symbol;Acc:2976]	
DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	√
DNTTIP1	Deoxynucleotidyltransferase, terminal, interacting protein 1 [Source:HGNC Symbol;Acc:16160]	
DNTTIP2	Deoxynucleotidyltransferase, terminal, interacting protein 2 [Source:HGNC Symbol;Acc:24013]	
DOCK1	Dedicator of cytokinesis 1 [Source:HGNC Symbol;Acc:2987]	
DOCK10	Dedicator of cytokinesis 10 [Source:HGNC Symbol;Acc:23479]	
DOCK2	Dedicator of cytokinesis 2 [Source:HGNC Symbol;Acc:2988]	
DOCK4	Dedicator of cytokinesis 4 [Source:HGNC Symbol;Acc:19192]	
DOCK6	Dedicator of cytokinesis 6 [Source:HGNC Symbol;Acc:19189]	
DOCK7	Dedicator of cytokinesis 7 [Source:HGNC Symbol;Acc:19190]	
DOCK8	Dedicator of cytokinesis 8 [Source:HGNC Symbol;Acc:19191]	
DOCK9	Dedicator of cytokinesis 9 [Source:HGNC Symbol;Acc:14132]	
DOK1	Docking protein 1, 62kda (downstream of tyrosine kinase 1) [Source:HGNC Symbol;Acc:2990]	
DOK5	Docking protein 5 [Source:HGNC Symbol;Acc:16173]	
DOLK	Dolichol kinase [Source:HGNC Symbol;Acc:23406]	
DOPEY1	Dopey family member 1 [Source:HGNC Symbol;Acc:21194]	
DOT1L	DOT1-like, histone H3 methyltransferase (S. Cerevisiae) [Source:HGNC Symbol;Acc:24948]	
DPAGT1	Dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (glcnac-1-P transferase) [Source:HGNC Symbol;Acc:2995]	
DPEP1	Dipeptidase 1 (renal) [Source:HGNC Symbol;Acc:3002]	
DPEP2	Dipeptidase 2 [Source:HGNC Symbol;Acc:23028]	
DPEP3	Dipeptidase 3 [Source:HGNC Symbol;Acc:23029]	
DPH1	DPH1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:3003]	
DPH2	DPH2 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:3004]	

DPH3	DPH3, KTI11 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:27717]	
DPP10	Dipeptidyl-peptidase 10 (non-functional) [Source:HGNC Symbol;Acc:20823]	
DPP6	Dipeptidyl-peptidase 6 [Source:HGNC Symbol;Acc:3010]	
DPP8	Dipeptidyl-peptidase 8 [Source:HGNC Symbol;Acc:16490]	
DPY19L1	Dpy-19-like 1 (C. Elegans) [Source:HGNC Symbol;Acc:22205]	
DPY19L4	Dpy-19-like 4 (C. Elegans) [Source:HGNC Symbol;Acc:27829]	
DPYD	Dihydropyrimidine dehydrogenase [Source:HGNC Symbol;Acc:3012]	
DPYSL3	Dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]	
DPYSL4	Dihydropyrimidinase-like 4 [Source:HGNC Symbol;Acc:3016]	
DQX1	DEAQ box RNA-dependent atpase 1 [Source:HGNC Symbol;Acc:20410]	
DR1	Down-regulator of transcription 1, TBP-binding (negative cofactor 2) [Source:HGNC Symbol;Acc:3017]	
DRAM1	DNA-damage regulated autophagy modulator 1 [Source:HGNC Symbol;Acc:25645]	
DRAM2	DNA-damage regulated autophagy modulator 2 [Source:HGNC Symbol;Acc:28769]	
DRGX	Dorsal root ganglia homeobox [Source:HGNC Symbol;Acc:21536]	
DROSHA	Drosha, ribonuclease type III [Source:HGNC Symbol;Acc:17904]	
DRP2	Dystrophin related protein 2 [Source:HGNC Symbol;Acc:3032]	
DSCAM	Down syndrome cell adhesion molecule [Source:HGNC Symbol;Acc:3039]	
DSCC1	Defective in sister chromatid cohesion 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24453]	
DSCR3	Down syndrome critical region gene 3 [Source:HGNC Symbol;Acc:3044]	
DSEL	Dermatan sulfate epimerase-like [Source:HGNC Symbol;Acc:18144]	
DSG1	Desmoglein 1 [Source:HGNC Symbol;Acc:3048]	
DSG2	Desmoglein 2 [Source:HGNC Symbol;Acc:3049]	
DSG4	Desmoglein 4 [Source:HGNC Symbol;Acc:21307]	
DST	Dystonin [Source:HGNC Symbol;Acc:1090]	
DSTYK	Dual serine/threonine and tyrosine protein kinase [Source:HGNC Symbol;Acc:29043]	
DTHD1	Death domain containing 1 [Source:HGNC Symbol;Acc:37261]	
DTL	Denticleless homolog (Drosophila) [Source:HGNC Symbol;Acc:30288]	

DTNA	Dystrobrevin, alpha [Source:HGNC Symbol;Acc:3057]	
DTX3L	Deltex 3-like (Drosophila) [Source:HGNC Symbol;Acc:30323]	
DTX4	Deltex homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:29151]	
DUOXA1	Dual oxidase maturation factor 1 [Source:HGNC Symbol;Acc:26507]	
DUOXA2	Dual oxidase maturation factor 2 [Source:HGNC Symbol;Acc:32698]	
DUSP12	Dual specificity phosphatase 12 [Source:HGNC Symbol;Acc:3067]	
DUSP27	Dual specificity phosphatase 27 (putative) [Source:HGNC Symbol;Acc:25034]	
DUSP28	Dual specificity phosphatase 28 [Source:HGNC Symbol;Acc:33237]	
DUSP5	Dual specificity phosphatase 5 [Source:HGNC Symbol;Acc:3071]	
DUSP7	Dual specificity phosphatase 7 [Source:HGNC Symbol;Acc:3073]	
DVL1	Dishevelled, dsh homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:3084]	
DYNC1H1	Dynein, cytoplasmic 1, heavy chain 1 [Source:HGNC Symbol;Acc:2961]	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2 [Source:HGNC Symbol;Acc:2966]	
DYNC2H1	Dynein, cytoplasmic 2, heavy chain 1 [Source:HGNC Symbol;Acc:2962]	
DYSF	Dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive) [Source:HGNC Symbol;Acc:3097]	
DYX1C1	Dyslexia susceptibility 1 candidate 1 [Source:HGNC Symbol;Acc:21493]	
DZIP1	DAZ interacting protein 1 [Source:HGNC Symbol;Acc:20908]	
DZIP3	DAZ interacting protein 3, zinc finger [Source:HGNC Symbol;Acc:30938]	
E2F4	E2F transcription factor 4, p107/p130-binding [Source:HGNC Symbol;Acc:3118]	
E2F5	E2F transcription factor 5, p130-binding [Source:HGNC Symbol;Acc:3119]	
EARS2	Glutamyl-trna synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:29419]	
EBF2	Early B-cell factor 2 [Source:HGNC Symbol;Acc:19090]	
EBPL	Emopamil binding protein-like [Source:HGNC Symbol;Acc:18061]	
ECE2	Endothelin converting enzyme 2 [Source:HGNC Symbol;Acc:13275]	
ECHDC1	Enoyl coa hydratase domain containing 1 [Source:HGNC Symbol;Acc:21489]	
ECHDC2	Enoyl coa hydratase domain containing 2 [Source:HGNC Symbol;Acc:23408]	

ECM2	Extracellular matrix protein 2, female organ and adipocyte specific [Source:HGNC Symbol;Acc:3154]	
ECSIT	ECSIT homolog (Drosophila) [Source:HGNC Symbol;Acc:29548]	
ECT2L	Epithelial cell transforming sequence 2 oncogene-like	√
EDAR	Ectodysplasin A receptor [Source:HGNC Symbol;Acc:2895]	
EDARADD	EDAR-associated death domain [Source:HGNC Symbol;Acc:14341]	
EDC4	Enhancer of mrna decapping 4 [Source:HGNC Symbol;Acc:17157]	
EDEM2	ER degradation enhancer, mannosidase alpha-like 2 [Source:HGNC Symbol;Acc:15877]	
EDEM3	ER degradation enhancer, mannosidase alpha-like 3 [Source:HGNC Symbol;Acc:16787]	
EDN3	Endothelin 3 [Source:HGNC Symbol;Acc:3178]	
EDNRA	Endothelin receptor type A [Source:HGNC Symbol;Acc:3179]	
EDNRB	Endothelin receptor type B [Source:HGNC Symbol;Acc:3180]	
EEA1	Early endosome antigen 1 [Source:HGNC Symbol;Acc:3185]	
EEF1A1	Eukaryotic translation elongation factor 1 alpha 1 [Source:HGNC Symbol;Acc:3189]	
EEF1A2	Eukaryotic translation elongation factor 1 alpha 2 [Source:HGNC Symbol;Acc:3192]	
EEF1G	Eukaryotic translation elongation factor 1 gamma [Source:HGNC Symbol;Acc:3213]	
EEF2	Eukaryotic translation elongation factor 2 [Source:HGNC Symbol;Acc:3214]	
EEPD1	Endonuclease/exonuclease/phosphatase family domain containing 1 [Source:HGNC Symbol;Acc:22223]	
EFCAB2	EF-hand calcium binding domain 2 [Source:HGNC Symbol;Acc:28166]	
EFCAB3	EF-hand calcium binding domain 3 [Source:HGNC Symbol;Acc:26379]	
EFCAB4B	EF-hand calcium binding domain 4B [Source:HGNC Symbol;Acc:28657]	
EFCAB5	EF-hand calcium binding domain 5 [Source:HGNC Symbol;Acc:24801]	
EFCAB6	EF-hand calcium binding domain 6 [Source:HGNC Symbol;Acc:24204]	
EFCAB8	EF-hand calcium binding domain 8 [Source:HGNC Symbol;Acc:34532]	
EFEMP1	EGF containing fibulin-like extracellular matrix protein 1 [Source:HGNC Symbol;Acc:3218]	

EFEMP2	EGF containing fibulin-like extracellular matrix protein 2 [Source:HGNC Symbol;Acc:3219]	
EFHA1	EF-hand domain family, member A1 [Source:HGNC Symbol;Acc:31830]	
EFHB	EF-hand domain family, member B [Source:HGNC Symbol;Acc:26330]	
EFNA5	Ephrin-A5 [Source:HGNC Symbol;Acc:3225]	
EFR3B	EFR3 homolog B (S. Cerevisiae) [Source:HGNC Symbol;Acc:29155]	
EFTUD1	Elongation factor Tu GTP binding domain containing 1 [Source:HGNC Symbol;Acc:25789]	
EGF	Epidermal growth factor [Source:HGNC Symbol;Acc:3229]	
EGFL7	EGF-like-domain, multiple 7 [Source:HGNC Symbol;Acc:20594]	
EGFLAM	EGF-like, fibronectin type III and laminin G domains [Source:HGNC Symbol;Acc:26810]	
EGFR	Epidermal growth factor receptor	√
EGLN1	Egl nine homolog 1 (C. Elegans) [Source:HGNC Symbol;Acc:1232]	
EGLN2	Egl nine homolog 2 (C. Elegans) [Source:HGNC Symbol;Acc:14660]	
EGR1	Early growth response 1 [Source:HGNC Symbol;Acc:3238]	
EGR3	Early growth response 3 [Source:HGNC Symbol;Acc:3240]	
EGR4	Early growth response 4 [Source:HGNC Symbol;Acc:3241]	
EHD1	EH-domain containing 1 [Source:HGNC Symbol;Acc:3242]	
EHD4	EH-domain containing 4 [Source:HGNC Symbol;Acc:3245]	
EHF	Ets homologous factor [Source:HGNC Symbol;Acc:3246]	
EHHADH	Enoyl-coa, hydratase/3-hydroxyacyl coa dehydrogenase [Source:HGNC Symbol;Acc:3247]	
EHMT2	Euchromatic histone-lysine N-methyltransferase 2 [Source:HGNC Symbol;Acc:14129]	
EI24	Etoposide induced 2.4 mrna [Source:HGNC Symbol;Acc:13276]	
EIF2AK1	Eukaryotic translation initiation factor 2-alpha kinase 1 [Source:HGNC Symbol;Acc:24921]	
EIF2B1	Eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kda [Source:HGNC Symbol;Acc:3257]	
EIF2C1	Eukaryotic translation initiation factor 2C, 1 [Source:HGNC Symbol;Acc:3262]	

EIF2C3	Eukaryotic translation initiation factor 2C, 3 [Source:HGNC Symbol;Acc:18421]	
EIF2C4	Eukaryotic translation initiation factor 2C, 4 [Source:HGNC Symbol;Acc:18424]	
EIF2S1	Eukaryotic translation initiation factor 2, subunit 1 alpha, 35kda [Source:HGNC Symbol;Acc:3265]	
EIF2S3	Eukaryotic translation initiation factor 2, subunit 3 gamma, 52kda [Source:HGNC Symbol;Acc:3267]	
EIF3E	Eukaryotic translation initiation factor 3, subunit E [Source:HGNC Symbol;Acc:3277]	
EIF3F	Eukaryotic translation initiation factor 3, subunit F [Source:HGNC Symbol;Acc:3275]	
EIF3H	Eukaryotic translation initiation factor 3, subunit H [Source:HGNC Symbol;Acc:3273]	
EIF3I	Eukaryotic translation initiation factor 3, subunit I [Source:HGNC Symbol;Acc:3272]	
EIF3K	Eukaryotic translation initiation factor 3, subunit K [Source:HGNC Symbol;Acc:24656]	
EIF3L	Eukaryotic translation initiation factor 3, subunit L [Source:HGNC Symbol;Acc:18138]	
EIF4A3	Eukaryotic translation initiation factor 4A3 [Source:HGNC Symbol;Acc:18683]	
EIF4B	Eukaryotic translation initiation factor 4B [Source:HGNC Symbol;Acc:3285]	
EIF4E	Eukaryotic translation initiation factor 4E [Source:HGNC Symbol;Acc:3287]	
EIF4E2	Eukaryotic translation initiation factor 4E family member 2 [Source:HGNC Symbol;Acc:3293]	
EIF4E3	Eukaryotic translation initiation factor 4E family member 3 [Source:HGNC Symbol;Acc:31837]	
EIF4G1	Eukaryotic translation initiation factor 4 gamma, 1 [Source:HGNC Symbol;Acc:3296]	
EIF4G3	Eukaryotic translation initiation factor 4 gamma, 3 [Source:HGNC Symbol;Acc:3298]	

EIF4H	Eukaryotic translation initiation factor 4H [Source:HGNC Symbol;Acc:12741]	
EIF5	Eukaryotic translation initiation factor 5 [Source:HGNC Symbol;Acc:3299]	
EIF5A2	Eukaryotic translation initiation factor 5A2 [Source:HGNC Symbol;Acc:3301]	
EIF6	Eukaryotic translation initiation factor 6 [Source:HGNC Symbol;Acc:6159]	
ELANE	Elastase, neutrophil expressed [Source:HGNC Symbol;Acc:3309]	
ELAVL1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R) [Source:HGNC Symbol;Acc:3312]	
ELAVL2	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B) [Source:HGNC Symbol;Acc:3313]	
ELAVL4	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D) [Source:HGNC Symbol;Acc:3315]	
ELF1	E74-like factor 1 (ets domain transcription factor) [Source:HGNC Symbol;Acc:3316]	
ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific) [Source:HGNC Symbol;Acc:3318]	
ELF4	E74-like factor 4 (ets domain transcription factor)	√
ELF5	E74-like factor 5 (ets domain transcription factor) [Source:HGNC Symbol;Acc:3320]	
ELL	Elongation factor RNA polymerase II	√
ELL2	Elongation factor, RNA polymerase II, 2 [Source:HGNC Symbol;Acc:17064]	
ELMO2	Engulfment and cell motility 2 [Source:HGNC Symbol;Acc:17233]	
ELMO3	Engulfment and cell motility 3 [Source:HGNC Symbol;Acc:17289]	
ELOF1	Elongation factor 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:28691]	
ELOVL3	Elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3 [Source:HGNC Symbol;Acc:18047]	
ELOVL4	Elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4 [Source:HGNC Symbol;Acc:14415]	
ELOVL6	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast) [Source:HGNC Symbol;Acc:15829]	

ELP4	Elongation protein 4 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:1171]	
ELTD1	EGF, latrophilin and seven transmembrane domain containing 1 [Source:HGNC Symbol;Acc:20822]	
EMCN	Endomucin [Source:HGNC Symbol;Acc:16041]	
EMID2	EMI domain containing 2 [Source:HGNC Symbol;Acc:18038]	
EMILIN1	Elastin microfibril interfacer 1 [Source:HGNC Symbol;Acc:19880]	
EML3	Echinoderm microtubule associated protein like 3 [Source:HGNC Symbol;Acc:26666]	
EML5	Echinoderm microtubule associated protein like 5 [Source:HGNC Symbol;Acc:18197]	
EML6	Echinoderm microtubule associated protein like 6 [Source:HGNC Symbol;Acc:35412]	
EMP2	Epithelial membrane protein 2 [Source:HGNC Symbol;Acc:3334]	
EMR1	Egf-like module containing, mucin-like, hormone receptor-like 1 [Source:HGNC Symbol;Acc:3336]	
EMR2	Egf-like module containing, mucin-like, hormone receptor-like 2 [Source:HGNC Symbol;Acc:3337]	
EMR3	Egf-like module containing, mucin-like, hormone receptor-like 3 [Source:HGNC Symbol;Acc:23647]	
ENDOD1	Endonuclease domain containing 1 [Source:HGNC Symbol;Acc:29129]	
ENG	Endoglin [Source:HGNC Symbol;Acc:3349]	
ENGASE	Endo-beta-N-acetylglucosaminidase [Source:HGNC Symbol;Acc:24622]	
ENO2	Enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:3353]	
ENOX2	Ecto-NOX disulfide-thiol exchanger 2 [Source:HGNC Symbol;Acc:2259]	
ENPEP	Glutamyl aminopeptidase (aminopeptidase A) [Source:HGNC Symbol;Acc:3355]	
ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase 1 [Source:HGNC Symbol;Acc:3356]	
ENPP3	Ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:HGNC Symbol;Acc:3358]	
ENPP4	Ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative) [Source:HGNC Symbol;Acc:3359]	

ENPP5	Ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative) [Source:HGNC Symbol;Acc:13717]	
ENPP6	Ectonucleotide pyrophosphatase/phosphodiesterase 6 [Source:HGNC Symbol;Acc:23409]	
ENTPD1	Ectonucleoside triphosphate diphosphohydrolase 1 [Source:HGNC Symbol;Acc:3363]	
ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6 (putative) [Source:HGNC Symbol;Acc:3368]	
ENTPD8	Ectonucleoside triphosphate diphosphohydrolase 8 [Source:HGNC Symbol;Acc:24860]	
EOMES	Eomesodermin [Source:HGNC Symbol;Acc:3372]	
EP400	E1A binding protein p400 [Source:HGNC Symbol;Acc:11958]	
EP400NL	EP400 N-terminal like [Source:HGNC Symbol;Acc:26602]	
EPB41	Erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) [Source:HGNC Symbol;Acc:3377]	
EPB41L1	Erythrocyte membrane protein band 4.1-like 1 [Source:HGNC Symbol;Acc:3378]	
EPB41L3	Erythrocyte membrane protein band 4.1-like 3 [Source:HGNC Symbol;Acc:3380]	
EPC1	Enhancer of polycomb homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19876]	
EPC2	Enhancer of polycomb homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:24543]	
EPCAM	Epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:11529]	
EPHA1	EPH receptor A1 [Source:HGNC Symbol;Acc:3385]	
EPHA6	EPH receptor A6 [Source:HGNC Symbol;Acc:19296]	
EPHA7	EPH receptor A7 [Source:HGNC Symbol;Acc:3390]	
EPHB1	EPH receptor B1 [Source:HGNC Symbol;Acc:3392]	
EPHB3	EPH receptor B3 [Source:HGNC Symbol;Acc:3394]	
EPHB6	EPH receptor B6 [Source:HGNC Symbol;Acc:3396]	
EPHX1	Epoxide hydrolase 1, microsomal (xenobiotic) [Source:HGNC Symbol;Acc:3401]	
EPM2AIP1	EPM2A (laforin) interacting protein 1 [Source:HGNC Symbol;Acc:19735]	

EPN2	Epsin 2 [Source:HGNC Symbol;Acc:18639]	
EPN3	Epsin 3 [Source:HGNC Symbol;Acc:18235]	
EPO	Erythropoietin [Source:HGNC Symbol;Acc:3415]	
EPS8	Epidermal growth factor receptor pathway substrate 8 [Source:HGNC Symbol;Acc:3420]	
EPT1	Ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific) [Source:HGNC Symbol;Acc:29361]	
EPX	Eosinophil peroxidase [Source:HGNC Symbol;Acc:3423]	
ERAP1	Endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:18173]	
ERAP2	Endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:29499]	
ERBB2	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	√
ERBB2IP	Erbb2 interacting protein [Source:HGNC Symbol;Acc:15842]	
ERBB4	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) [Source:HGNC Symbol;Acc:3432]	
ERC1	ELKS/RAB6-interacting/CAST family member 1 [Source:HGNC Symbol;Acc:17072]	
ERC2	ELKS/RAB6-interacting/CAST family member 2 [Source:HGNC Symbol;Acc:31922]	
ERCC1	Excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [Source:HGNC Symbol;Acc:3433]	
ERCC2	Excision repair cross-complementing rodent repair deficiency, complementation group 2	√
ERCC6	Excision repair cross-complementing rodent repair deficiency, complementation group 6 [Source:HGNC Symbol;Acc:3438]	
ERGIC2	ERGIC and golgi 2 [Source:HGNC Symbol;Acc:30208]	
ERGIC3	ERGIC and golgi 3 [Source:HGNC Symbol;Acc:15927]	
ERI1	Exoribonuclease 1 [Source:HGNC Symbol;Acc:23994]	
ERICH1	Glutamate-rich 1 [Source:HGNC Symbol;Acc:27234]	
ERLIN1	ER lipid raft associated 1 [Source:HGNC Symbol;Acc:16947]	

ERLIN2	ER lipid raft associated 2 [Source:HGNC Symbol;Acc:1356]	
ERMAP	Erythroblast membrane-associated protein (Scianna blood group) [Source:HGNC Symbol;Acc:15743]	
ERMN	Ermin, ERM-like protein [Source:HGNC Symbol;Acc:29208]	
ERMP1	Endoplasmic reticulum metallopeptidase 1 [Source:HGNC Symbol;Acc:23703]	
ERO1LB	ERO1-like beta (S. Cerevisiae) [Source:HGNC Symbol;Acc:14355]	
ERRFI1	ERBB receptor feedback inhibitor 1 [Source:HGNC Symbol;Acc:18185]	
ESCO2	Establishment of cohesion 1 homolog 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:27230]	
ESM1	Endothelial cell-specific molecule 1 [Source:HGNC Symbol;Acc:3466]	
ESPNL	Espin-like [Source:HGNC Symbol;Acc:27937]	
ESR1	Estrogen receptor 1 [Source:HGNC Symbol;Acc:3467]	
ESR2	Estrogen receptor 2 (ER beta) [Source:HGNC Symbol;Acc:3468]	
ESRRA	Estrogen-related receptor alpha [Source:HGNC Symbol;Acc:3471]	
ESRRB	Estrogen-related receptor beta [Source:HGNC Symbol;Acc:3473]	
ESYT2	Extended synaptotagmin-like protein 2 [Source:HGNC Symbol;Acc:22211]	
ESYT3	Extended synaptotagmin-like protein 3 [Source:HGNC Symbol;Acc:24295]	
ETV3	Ets variant 3 [Source:HGNC Symbol;Acc:3492]	
ETV5	Ets variant 5	√
EVC	Ellis van Creveld syndrome [Source:HGNC Symbol;Acc:3497]	
EVC2	Ellis van Creveld syndrome 2 [Source:HGNC Symbol;Acc:19747]	
EVI5	Ecotropic viral integration site 5 [Source:HGNC Symbol;Acc:3501]	
EVL	Enah/Vasp-like [Source:HGNC Symbol;Acc:20234]	
EVX2	Even-skipped homeobox 2 [Source:HGNC Symbol;Acc:3507]	
EXD1	Exonuclease 3'-5' domain containing 1 [Source:HGNC Symbol;Acc:28507]	
EXO1	Exonuclease 1 [Source:HGNC Symbol;Acc:3511]	
EXOC1	Exocyst complex component 1 [Source:HGNC Symbol;Acc:30380]	
EXOC2	Exocyst complex component 2 [Source:HGNC Symbol;Acc:24968]	
EXOC3L4	Exocyst complex component 3-like 4 [Source:HGNC Symbol;Acc:20120]	
EXOC4	Exocyst complex component 4 [Source:HGNC Symbol;Acc:30389]	
EXOC6	Exocyst complex component 6 [Source:HGNC Symbol;Acc:23196]	
EXOC6B	Exocyst complex component 6B [Source:HGNC Symbol;Acc:17085]	

EXOC7	Exocyst complex component 7 [Source:HGNC Symbol;Acc:23214]	
EXOC8	Exocyst complex component 8 [Source:HGNC Symbol;Acc:24659]	
EXOSC10	Exosome component 10 [Source:HGNC Symbol;Acc:9138]	
EXOSC4	Exosome component 4 [Source:HGNC Symbol;Acc:18189]	
EXPH5	Exophilin 5 [Source:HGNC Symbol;Acc:30578]	
EXT1	Exostosin 1	√
EXTL2	Exostoses (multiple)-like 2 [Source:HGNC Symbol;Acc:3516]	
EXTL3	Exostoses (multiple)-like 3 [Source:HGNC Symbol;Acc:3518]	
EYA2	Eyes absent homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:3520]	
EZH1	Enhancer of zeste homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:3526]	
EZH2	Enhancer of zeste homolog 2 (Drosophila)	√
F11	Coagulation factor XI [Source:HGNC Symbol;Acc:3529]	
F11R	F11 receptor [Source:HGNC Symbol;Acc:14685]	
F2R	Coagulation factor II (thrombin) receptor [Source:HGNC Symbol;Acc:3537]	
F3	Coagulation factor III (thromboplastin, tissue factor) [Source:HGNC Symbol;Acc:3541]	
F5	Coagulation factor V (proaccelerin, labile factor) [Source:HGNC Symbol;Acc:3542]	
F7	Coagulation factor VII (serum prothrombin conversion accelerator) [Source:HGNC Symbol;Acc:3544]	
F8	Coagulation factor VIII, procoagulant component [Source:HGNC Symbol;Acc:3546]	
FABP9	Fatty acid binding protein 9, testis [Source:HGNC Symbol;Acc:3563]	
FADD	Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:3573]	
FAF1	Fas (TNFRSF6) associated factor 1 [Source:HGNC Symbol;Acc:3578]	
FAH	Fumarylacetoacetate hydrolase (fumarylacetoacetase) [Source:HGNC Symbol;Acc:3579]	
FAHD2A	Fumarylacetoacetate hydrolase domain containing 2A [Source:HGNC Symbol;Acc:24252]	
FAIM	Fas apoptotic inhibitory molecule [Source:HGNC Symbol;Acc:18703]	
FAIM2	Fas apoptotic inhibitory molecule 2 [Source:HGNC Symbol;Acc:17067]	

FAIM3	Fas apoptotic inhibitory molecule 3 [Source:HGNC Symbol;Acc:14315]	
FAM101A	Family with sequence similarity 101, member A [Source:HGNC Symbol;Acc:27051]	
FAM101B	Family with sequence similarity 101, member B [Source:HGNC Symbol;Acc:28705]	
FAM102A	Family with sequence similarity 102, member A [Source:HGNC Symbol;Acc:31419]	
FAM102B	Family with sequence similarity 102, member B [Source:HGNC Symbol;Acc:27637]	
FAM103A1	Family with sequence similarity 103, member A1 [Source:HGNC Symbol;Acc:31022]	
FAM105B	Family with sequence similarity 105, member B [Source:HGNC Symbol;Acc:25118]	
FAM106A	Family with sequence similarity 106, member A [Source:HGNC Symbol;Acc:25682]	
FAM106B	Family with sequence similarity 106, member B [Source:HGNC Symbol;Acc:32450]	
FAM109A	Family with sequence similarity 109, member A [Source:HGNC Symbol;Acc:26509]	
FAM110B	Family with sequence similarity 110, member B [Source:HGNC Symbol;Acc:28587]	
FAM111B	Family with sequence similarity 111, member B [Source:HGNC Symbol;Acc:24200]	
FAM113A	Family with sequence similarity 113, member A [Source:HGNC Symbol;Acc:16212]	
FAM114A2	Family with sequence similarity 114, member A2 [Source:HGNC Symbol;Acc:1333]	
FAM115A	Family with sequence similarity 115, member A [Source:HGNC Symbol;Acc:22201]	
FAM115C	Family with sequence similarity 115, member C [Source:HGNC Symbol;Acc:26878]	
FAM116B	Family with sequence similarity 116, member B [Source:HGNC Symbol;Acc:32690]	

FAM118A	Family with sequence similarity 118, member A [Source:HGNC Symbol;Acc:1313]	
FAM119B	Family with sequence similarity 119, member B [Source:HGNC Symbol;Acc:24936]	
FAM120C	Family with sequence similarity 120C [Source:HGNC Symbol;Acc:16949]	
FAM123C	Family with sequence similarity 123C [Source:HGNC Symbol;Acc:26771]	
FAM124B	Family with sequence similarity 124B [Source:HGNC Symbol;Acc:26224]	
FAM125B	Family with sequence similarity 125, member B [Source:HGNC Symbol;Acc:23368]	
FAM126A	Family with sequence similarity 126, member A [Source:HGNC Symbol;Acc:24587]	
FAM127C	Family with sequence similarity 127, member C [Source:HGNC Symbol;Acc:33156]	
FAM129B	Family with sequence similarity 129, member B [Source:HGNC Symbol;Acc:25282]	
FAM131A	Family with sequence similarity 131, member A [Source:HGNC Symbol;Acc:28308]	
FAM134A	Family with sequence similarity 134, member A [Source:HGNC Symbol;Acc:28450]	
FAM134C	Family with sequence similarity 134, member C [Source:HGNC Symbol;Acc:27258]	
FAM135A	Family with sequence similarity 135, member A [Source:HGNC Symbol;Acc:21084]	
FAM135B	Family with sequence similarity 135, member B [Source:HGNC Symbol;Acc:28029]	
FAM136A	Family with sequence similarity 136, member A [Source:HGNC Symbol;Acc:25911]	
FAM13A	Family with sequence similarity 13, member A [Source:HGNC Symbol;Acc:19367]	
FAM13C	Family with sequence similarity 13, member C [Source:HGNC Symbol;Acc:19371]	
FAM149A	Family with sequence similarity 149, member A [Source:HGNC Symbol;Acc:24527]	

FAM149B1	Family with sequence similarity 149, member B1 [Source:HGNC Symbol;Acc:29162]	
FAM150B	Family with sequence similarity 150, member B [Source:HGNC Symbol;Acc:27683]	
FAM153A	Family with sequence similarity 153, member A [Source:HGNC Symbol;Acc:29940]	
FAM153B	Family with sequence similarity 153, member B [Source:HGNC Symbol;Acc:27323]	
FAM153C	Family with sequence similarity 153, member C [Source:HGNC Symbol;Acc:33936]	
FAM156B	Family with sequence similarity 156, member B [Source:HGNC Symbol;Acc:31962]	
FAM160A1	Family with sequence similarity 160, member A1 [Source:HGNC Symbol;Acc:34237]	
FAM161A	Family with sequence similarity 161, member A [Source:HGNC Symbol;Acc:25808]	
FAM168A	Family with sequence similarity 168, member A [Source:HGNC Symbol;Acc:28999]	
FAM169B	Family with sequence similarity 169, member B [Source:HGNC Symbol;Acc:26835]	
FAM170B	Family with sequence similarity 170, member B [Source:HGNC Symbol;Acc:19736]	
FAM177B	Family with sequence similarity 177, member B [Source:HGNC Symbol;Acc:34395]	
FAM179A	Family with sequence similarity 179, member A [Source:HGNC Symbol;Acc:33715]	
FAM181B	Family with sequence similarity 181, member B [Source:HGNC Symbol;Acc:28512]	
FAM182A	Family with sequence similarity 182, member A [Source:HGNC Symbol;Acc:16222]	
FAM184A	Family with sequence similarity 184, member A [Source:HGNC Symbol;Acc:20991]	

FAM186B	Family with sequence similarity 186, member B [Source:HGNC Symbol;Acc:25296]	
FAM189A1	Family with sequence similarity 189, member A1 [Source:HGNC Symbol;Acc:29075]	
FAM189B	Family with sequence similarity 189, member B [Source:HGNC Symbol;Acc:1233]	
FAM18B2	Family with sequence similarity 18, member B2 [Source:HGNC Symbol;Acc:30453]	
FAM190A	Family with sequence similarity 190, member A [Source:HGNC Symbol;Acc:29349]	
FAM190B	Family with sequence similarity 190, member B [Source:HGNC Symbol;Acc:29197]	
FAM196A	Family with sequence similarity 196, member A [Source:HGNC Symbol;Acc:33859]	
FAM19A1	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A1 [Source:HGNC Symbol;Acc:21587]	
FAM19A2	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A2 [Source:HGNC Symbol;Acc:21589]	
FAM19A3	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A3 [Source:HGNC Symbol;Acc:21590]	
FAM200A	Family with sequence similarity 200, member A [Source:HGNC Symbol;Acc:25401]	
FAM20A	Family with sequence similarity 20, member A [Source:HGNC Symbol;Acc:23015]	
FAM20C	Family with sequence similarity 20, member C [Source:HGNC Symbol;Acc:22140]	
FAM23A	Family with sequence similarity 23, member A [Source:HGNC Symbol;Acc:23473]	
FAM23B	Family with sequence similarity 23, member B [Source:HGNC Symbol;Acc:23474]	
FAM26E	Family with sequence similarity 26, member E [Source:HGNC Symbol;Acc:21568]	

FAM38A	Family with sequence similarity 38, member A [Source:HGNC Symbol;Acc:28993]	
FAM38B	Family with sequence similarity 38, member B [Source:HGNC Symbol;Acc:26270]	
FAM3A	Family with sequence similarity 3, member A [Source:HGNC Symbol;Acc:13749]	
FAM3D	Family with sequence similarity 3, member D [Source:HGNC Symbol;Acc:18665]	
FAM40A	Family with sequence similarity 40, member A [Source:HGNC Symbol;Acc:25916]	
FAM46A	Family with sequence similarity 46, member A [Source:HGNC Symbol;Acc:18345]	
FAM47A	Family with sequence similarity 47, member A [Source:HGNC Symbol;Acc:29962]	
FAM47C	Family with sequence similarity 47, member C [Source:HGNC Symbol;Acc:25301]	
FAM47E	Family with sequence similarity 47, member E [Source:HGNC Symbol;Acc:34343]	
FAM49B	Family with sequence similarity 49, member B [Source:HGNC Symbol;Acc:25216]	
FAM53A	Family with sequence similarity 53, member A [Source:HGNC Symbol;Acc:31860]	
FAM53B	Family with sequence similarity 53, member B [Source:HGNC Symbol;Acc:28968]	
FAM53C	Family with sequence similarity 53, member C [Source:HGNC Symbol;Acc:1336]	
FAM55B	Family with sequence similarity 55, member B [Source:HGNC Symbol;Acc:26331]	
FAM55C	Family with sequence similarity 55, member C [Source:HGNC Symbol;Acc:28238]	
FAM55D	Family with sequence similarity 55, member D [Source:HGNC Symbol;Acc:23117]	

FAM59B	Family with sequence similarity 59, member B [Source:HGNC Symbol;Acc:27172]	
FAM5B	Family with sequence similarity 5, member B [Source:HGNC Symbol;Acc:13746]	
FAM63A	Family with sequence similarity 63, member A [Source:HGNC Symbol;Acc:25648]	
FAM63B	Family with sequence similarity 63, member B [Source:HGNC Symbol;Acc:26954]	
FAM65C	Family with sequence similarity 65, member C [Source:HGNC Symbol;Acc:16168]	
FAM69B	Family with sequence similarity 69, member B [Source:HGNC Symbol;Acc:28290]	
FAM70A	Family with sequence similarity 70, member A [Source:HGNC Symbol;Acc:26086]	
FAM70B	Family with sequence similarity 70, member B [Source:HGNC Symbol;Acc:28297]	
FAM71B	Family with sequence similarity 71, member B [Source:HGNC Symbol;Acc:28397]	
FAM71C	Family with sequence similarity 71, member C [Source:HGNC Symbol;Acc:28594]	
FAM71F2	Family with sequence similarity 71, member F2 [Source:HGNC Symbol;Acc:27998]	
FAM72A	Family with sequence similarity 72, member A [Source:HGNC Symbol;Acc:24044]	
FAM72B	Family with sequence similarity 72, member B [Source:HGNC Symbol;Acc:24805]	
FAM73A	Family with sequence similarity 73, member A [Source:HGNC Symbol;Acc:24741]	
FAM73B	Family with sequence similarity 73, member B [Source:HGNC Symbol;Acc:23621]	
FAM75A3	Family with sequence similarity 75, member A3 [Source:HGNC Symbol;Acc:32003]	

FAM75A4	Family with sequence similarity 75, member A4 [Source:HGNC Symbol;Acc:32004]	
FAM75A5	Family with sequence similarity 75, member A5 [Source:HGNC Symbol;Acc:32005]	
FAM75A6	Family with sequence similarity 75, member A6 [Source:HGNC Symbol;Acc:32006]	
FAM75A7	Family with sequence similarity 75, member A7 [Source:HGNC Symbol;Acc:32007]	
FAM76A	Family with sequence similarity 76, member A [Source:HGNC Symbol;Acc:28530]	
FAM76B	Family with sequence similarity 76, member B [Source:HGNC Symbol;Acc:28492]	
FAM78A	Family with sequence similarity 78, member A [Source:HGNC Symbol;Acc:25465]	
FAM78B	Family with sequence similarity 78, member B [Source:HGNC Symbol;Acc:13495]	
FAM82B	Family with sequence similarity 82, member B [Source:HGNC Symbol;Acc:24285]	
FAM83A	Family with sequence similarity 83, member A [Source:HGNC Symbol;Acc:28210]	
FAM83B	Family with sequence similarity 83, member B [Source:HGNC Symbol;Acc:21357]	
FAM83E	Family with sequence similarity 83, member E [Source:HGNC Symbol;Acc:25972]	
FAM83G	Family with sequence similarity 83, member G [Source:HGNC Symbol;Acc:32554]	
FAM83H	Family with sequence similarity 83, member H [Source:HGNC Symbol;Acc:24797]	
FAM84A	Family with sequence similarity 84, member A [Source:HGNC Symbol;Acc:20743]	
FAM86A	Family with sequence similarity 86, member A [Source:HGNC Symbol;Acc:32221]	

FAM86B1	Family with sequence similarity 86, member B1 [Source:HGNC Symbol;Acc:28268]	
FAM89A	Family with sequence similarity 89, member A [Source:HGNC Symbol;Acc:25057]	
FAM8A1	Family with sequence similarity 8, member A1 [Source:HGNC Symbol;Acc:16372]	
FAM91A1	Family with sequence similarity 91, member A1 [Source:HGNC Symbol;Acc:26306]	
FAM98A	Family with sequence similarity 98, member A [Source:HGNC Symbol;Acc:24520]	
FAN1	FANCD2/FANCI-associated nuclease 1 [Source:HGNC Symbol;Acc:29170]	
FANCA	Fanconi anemia, complementation group A	√
FANCD2	Fanconi anemia, complementation group D2	√
FANCI	Fanconi anemia, complementation group I [Source:HGNC Symbol;Acc:25568]	
FANK1	Fibronectin type III and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:23527]	
FAP	Fibroblast activation protein, alpha [Source:HGNC Symbol;Acc:3590]	
FARP1	FERM, rhogef (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived) [Source:HGNC Symbol;Acc:3591]	
FARP2	FERM, rhogef and pleckstrin domain protein 2 [Source:HGNC Symbol;Acc:16460]	
FARS2	Phenylalanyl-trna synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:21062]	
FARSA	Phenylalanyl-trna synthetase, alpha subunit [Source:HGNC Symbol;Acc:3592]	
FARSB	Phenylalanyl-trna synthetase, beta subunit [Source:HGNC Symbol;Acc:17800]	
FASLG	Fas ligand (TNF superfamily, member 6) [Source:HGNC Symbol;Acc:11936]	
FASN	Fatty acid synthase [Source:HGNC Symbol;Acc:3594]	
FASTKD5	FAST kinase domains 5 [Source:HGNC Symbol;Acc:25790]	

FAT1	FAT tumor suppressor homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:3595]	
FAT2	FAT tumor suppressor homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:3596]	
FAT3	FAT tumor suppressor homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:23112]	
FAT4	FAT tumor suppressor homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:23109]	
FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-musv) ubiquitously expressed [Source:HGNC Symbol;Acc:3597]	
FBLN1	Fibulin 1 [Source:HGNC Symbol;Acc:3600]	
FBLN2	Fibulin 2 [Source:HGNC Symbol;Acc:3601]	
FBLN5	Fibulin 5 [Source:HGNC Symbol;Acc:3602]	
FBN1	Fibrillin 1 [Source:HGNC Symbol;Acc:3603]	
FBN2	Fibrillin 2 [Source:HGNC Symbol;Acc:3604]	
FBN3	Fibrillin 3 [Source:HGNC Symbol;Acc:18794]	
FBXL13	F-box and leucine-rich repeat protein 13 [Source:HGNC Symbol;Acc:21658]	
FBXL15	F-box and leucine-rich repeat protein 15 [Source:HGNC Symbol;Acc:28155]	
FBXL17	F-box and leucine-rich repeat protein 17 [Source:HGNC Symbol;Acc:13615]	
FBXL18	F-box and leucine-rich repeat protein 18 [Source:HGNC Symbol;Acc:21874]	
FBXL19	F-box and leucine-rich repeat protein 19 [Source:HGNC Symbol;Acc:25300]	
FBXL20	F-box and leucine-rich repeat protein 20 [Source:HGNC Symbol;Acc:24679]	
FBXL5	F-box and leucine-rich repeat protein 5 [Source:HGNC Symbol;Acc:13602]	
FBXL7	F-box and leucine-rich repeat protein 7 [Source:HGNC Symbol;Acc:13604]	
FBXO11	F-box protein 11	√
FBXO17	F-box protein 17 [Source:HGNC Symbol;Acc:18754]	
FBXO18	F-box protein, helicase, 18 [Source:HGNC Symbol;Acc:13620]	

FBXO25	F-box protein 25 [Source:HGNC Symbol;Acc:13596]	
FBXO28	F-box protein 28 [Source:HGNC Symbol;Acc:29046]	
FBXO3	F-box protein 3 [Source:HGNC Symbol;Acc:13582]	
FBXO32	F-box protein 32 [Source:HGNC Symbol;Acc:16731]	
FBXO33	F-box protein 33 [Source:HGNC Symbol;Acc:19833]	
FBXO34	F-box protein 34 [Source:HGNC Symbol;Acc:20201]	
FBXO4	F-box protein 4 [Source:HGNC Symbol;Acc:13583]	
FBXO40	F-box protein 40 [Source:HGNC Symbol;Acc:29816]	
FBXO42	F-box protein 42 [Source:HGNC Symbol;Acc:29249]	
FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:24847]	
FBXO5	F-box protein 5 [Source:HGNC Symbol;Acc:13584]	
FBXO7	F-box protein 7 [Source:HGNC Symbol;Acc:13586]	
FBXW11	F-box and WD repeat domain containing 11 [Source:HGNC Symbol;Acc:13607]	
FBXW2	F-box and WD repeat domain containing 2 [Source:HGNC Symbol;Acc:13608]	
FBXW7	F-box and WD repeat domain containing 7	√
FCGBP	Fc fragment of igg binding protein [Source:HGNC Symbol;Acc:13572]	
FCGR1A	Fc fragment of igg, high affinity Ia, receptor (CD64) [Source:HGNC Symbol;Acc:3613]	
FCGR1B	Fc fragment of igg, high affinity Ib, receptor (CD64) [Source:HGNC Symbol;Acc:3614]	
FCGR2A	Fc fragment of igg, low affinity iia, receptor (CD32) [Source:HGNC Symbol;Acc:3616]	
FCHO2	FCH domain only 2 [Source:HGNC Symbol;Acc:25180]	
FCHSD1	FCH and double SH3 domains 1 [Source:HGNC Symbol;Acc:25463]	
FCRL2	Fc receptor-like 2 [Source:HGNC Symbol;Acc:14875]	
FCRL5	Fc receptor-like 5 [Source:HGNC Symbol;Acc:18508]	
FDFT1	Farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC Symbol;Acc:3629]	
FDX1L	Ferredoxin 1-like [Source:HGNC Symbol;Acc:30546]	
FDXR	Ferredoxin reductase [Source:HGNC Symbol;Acc:3642]	
FECH	Ferrochelatase [Source:HGNC Symbol;Acc:3647]	

FEM1B	Fem-1 homolog b (C. Elegans) [Source:HGNC Symbol;Acc:3649]	
FEM1C	Fem-1 homolog c (C. Elegans) [Source:HGNC Symbol;Acc:16933]	
FER1L5	Fer-1-like 5 (C. Elegans) [Source:HGNC Symbol;Acc:19044]	
FERMT2	Fermitin family member 2 [Source:HGNC Symbol;Acc:15767]	
FES	Feline sarcoma oncogene [Source:HGNC Symbol;Acc:3657]	
FEZ1	Fasciculation and elongation protein zeta 1 (zygin I) [Source:HGNC Symbol;Acc:3659]	
FEZF2	FEZ family zinc finger 2 [Source:HGNC Symbol;Acc:13506]	
FFAR1	Free fatty acid receptor 1 [Source:HGNC Symbol;Acc:4498]	
FGB	Fibrinogen beta chain [Source:HGNC Symbol;Acc:3662]	
FGD1	FYVE, rhogef and PH domain containing 1 [Source:HGNC Symbol;Acc:3663]	
FGD2	FYVE, rhogef and PH domain containing 2 [Source:HGNC Symbol;Acc:3664]	
FGD3	FYVE, rhogef and PH domain containing 3 [Source:HGNC Symbol;Acc:16027]	
FGD6	FYVE, rhogef and PH domain containing 6 [Source:HGNC Symbol;Acc:21740]	
FGF11	Fibroblast growth factor 11 [Source:HGNC Symbol;Acc:3667]	
FGF12	Fibroblast growth factor 12 [Source:HGNC Symbol;Acc:3668]	
FGF19	Fibroblast growth factor 19 [Source:HGNC Symbol;Acc:3675]	
FGF2	Fibroblast growth factor 2 (basic) [Source:HGNC Symbol;Acc:3676]	
FGF23	Fibroblast growth factor 23 [Source:HGNC Symbol;Acc:3680]	
FGF8	Fibroblast growth factor 8 (androgen-induced) [Source:HGNC Symbol;Acc:3686]	
FGFR1	Fibroblast growth factor receptor 1	√
FGFR1OP	FGFR1 oncogene partner	√
FGFR2	Fibroblast growth factor receptor 2	√
FGFRL1	Fibroblast growth factor receptor-like 1 [Source:HGNC Symbol;Acc:3693]	
FHAD1	Forkhead-associated (FHA) phosphopeptide binding domain 1 [Source:HGNC Symbol;Acc:29408]	
FHDC1	FH2 domain containing 1 [Source:HGNC Symbol;Acc:29363]	
FHIT	Fragile histidine triad gene	√

FHL1	Four and a half LIM domains 1 [Source:HGNC Symbol;Acc:3702]	
FHL2	Four and a half LIM domains 2 [Source:HGNC Symbol;Acc:3703]	
FHOD3	Formin homology 2 domain containing 3 [Source:HGNC Symbol;Acc:26178]	
FIBCD1	Fibrinogen C domain containing 1 [Source:HGNC Symbol;Acc:25922]	
FIGN	Fidgetin [Source:HGNC Symbol;Acc:13285]	
FIZ1	FLT3-interacting zinc finger 1 [Source:HGNC Symbol;Acc:25917]	
FKBP14	FK506 binding protein 14, 22 kda [Source:HGNC Symbol;Acc:18625]	
FKBP15	FK506 binding protein 15, 133kda [Source:HGNC Symbol;Acc:23397]	
FKBP1A	FK506 binding protein 1A, 12kda [Source:HGNC Symbol;Acc:3711]	
FKBP1C	FK506 binding protein 1C [Source:HGNC Symbol;Acc:21376]	
FKBP2	FK506 binding protein 2, 13kda [Source:HGNC Symbol;Acc:3718]	
FKBP5	FK506 binding protein 5 [Source:HGNC Symbol;Acc:3721]	
FKBP6	FK506 binding protein 6, 36kda [Source:HGNC Symbol;Acc:3722]	
FKBP9	FK506 binding protein 9, 63 kda [Source:HGNC Symbol;Acc:3725]	
FKTN	Fukutin [Source:HGNC Symbol;Acc:3622]	
FLNB	Filamin B, beta [Source:HGNC Symbol;Acc:3755]	
FLNC	Filamin C, gamma [Source:HGNC Symbol;Acc:3756]	
FLOT1	Flotillin 1 [Source:HGNC Symbol;Acc:3757]	
FLRT2	Fibronectin leucine rich transmembrane protein 2 [Source:HGNC Symbol;Acc:3761]	
FLRT3	Fibronectin leucine rich transmembrane protein 3 [Source:HGNC Symbol;Acc:3762]	
FLT4	Fms-related tyrosine kinase 4 [Source:HGNC Symbol;Acc:3767]	
FLYWCH1	FLYWCH-type zinc finger 1 [Source:HGNC Symbol;Acc:25404]	
FLYWCH2	FLYWCH family member 2 [Source:HGNC Symbol;Acc:25178]	
FMN2	Formin 2 [Source:HGNC Symbol;Acc:14074]	
FMO3	Flavin containing monooxygenase 3 [Source:HGNC Symbol;Acc:3771]	
FMO4	Flavin containing monooxygenase 4 [Source:HGNC Symbol;Acc:3772]	
FMR1	Fragile X mental retardation 1 [Source:HGNC Symbol;Acc:3775]	
FMR1NB	Fragile X mental retardation 1 neighbor [Source:HGNC Symbol;Acc:26372]	
FN1	Fibronectin 1 [Source:HGNC Symbol;Acc:3778]	
FN3K	Fructosamine 3 kinase [Source:HGNC Symbol;Acc:24822]	

FN3KRP	Fructosamine 3 kinase related protein [Source:HGNC Symbol;Acc:25700]	
FNBP1	Formin binding protein 1	√
FNBP1L	Formin binding protein 1-like [Source:HGNC Symbol;Acc:20851]	
FNBP4	Formin binding protein 4 [Source:HGNC Symbol;Acc:19752]	
FNDC1	Fibronectin type III domain containing 1 [Source:HGNC Symbol;Acc:21184]	
FNDC3A	Fibronectin type III domain containing 3A [Source:HGNC Symbol;Acc:20296]	
FNDC3B	Fibronectin type III domain containing 3B [Source:HGNC Symbol;Acc:24670]	
FNDC4	Fibronectin type III domain containing 4 [Source:HGNC Symbol;Acc:20239]	
FNDC5	Fibronectin type III domain containing 5 [Source:HGNC Symbol;Acc:20240]	
FNDC7	Fibronectin type III domain containing 7 [Source:HGNC Symbol;Acc:26668]	
FNDC9	Fibronectin type III domain containing 9 [Source:HGNC Symbol;Acc:33547]	
FNIP1	Folliculin interacting protein 1 [Source:HGNC Symbol;Acc:29418]	
FNIP2	Folliculin interacting protein 2 [Source:HGNC Symbol;Acc:29280]	
FNTB	Farnesyltransferase, CAAX box, beta [Source:HGNC Symbol;Acc:3785]	
FOLH1	Folate hydrolase (prostate-specific membrane antigen) 1 [Source:HGNC Symbol;Acc:3788]	
FOXA3	Forkhead box A3 [Source:HGNC Symbol;Acc:5023]	
FOXC1	Forkhead box C1 [Source:HGNC Symbol;Acc:3800]	
FOXD4	Forkhead box D4 [Source:HGNC Symbol;Acc:3805]	
FOXD4L1	Forkhead box D4-like 1 [Source:HGNC Symbol;Acc:18521]	
FOXD4L3	Forkhead box D4-like 3 [Source:HGNC Symbol;Acc:18523]	
FOXD4L6	Forkhead box D4-like 6 [Source:HGNC Symbol;Acc:31986]	
FOXH1	Forkhead box H1 [Source:HGNC Symbol;Acc:3814]	
FOXK1	Forkhead box K1 [Source:HGNC Symbol;Acc:23480]	
FOXM1	Forkhead box M1 [Source:HGNC Symbol;Acc:3818]	
FOXN4	Forkhead box N4 [Source:HGNC Symbol;Acc:21399]	

FOXO3	Forkhead box O3 [Source:HGNC Symbol;Acc:3821]	
FOXO4	Forkhead box O4 [Source:HGNC Symbol;Acc:7139]	
FOXP1	Forkhead box P1	√
FOXP2	Forkhead box P2 [Source:HGNC Symbol;Acc:13875]	
FOXP4	Forkhead box P4 [Source:HGNC Symbol;Acc:20842]	
FOXRED2	FAD-dependent oxidoreductase domain containing 2 [Source:HGNC Symbol;Acc:26264]	
FPR2	Formyl peptide receptor 2 [Source:HGNC Symbol;Acc:3827]	
FRA10AC1	Fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:HGNC Symbol;Acc:1162]	
FRAS1	Fraser syndrome 1 [Source:HGNC Symbol;Acc:19185]	
FRAT1	Frequently rearranged in advanced T-cell lymphomas [Source:HGNC Symbol;Acc:3944]	
FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:23399]	
FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:25396]	
FRG1B	FSHD region gene 1 family, member B [Source:HGNC Symbol;Acc:15792]	
FRMD4A	FERM domain containing 4A [Source:HGNC Symbol;Acc:25491]	
FRMD8	FERM domain containing 8 [Source:HGNC Symbol;Acc:25462]	
FRMPD1	FERM and PDZ domain containing 1 [Source:HGNC Symbol;Acc:29159]	
FRMPD2	FERM and PDZ domain containing 2 [Source:HGNC Symbol;Acc:28572]	
FRMPD4	FERM and PDZ domain containing 4 [Source:HGNC Symbol;Acc:29007]	
FRRS1	Ferric-chelate reductase 1 [Source:HGNC Symbol;Acc:27622]	
FRS2	Fibroblast growth factor receptor substrate 2 [Source:HGNC Symbol;Acc:16971]	
FRY	Furry homolog (Drosophila) [Source:HGNC Symbol;Acc:20367]	
FRYL	FRY-like [Source:HGNC Symbol;Acc:29127]	
FSCB	Fibrous sheath CABYR binding protein [Source:HGNC Symbol;Acc:20494]	
FSCN3	Fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus purpuratus) [Source:HGNC Symbol;Acc:3961]	
FSD1L	Fibronectin type III and SPRY domain containing 1-like [Source:HGNC Symbol;Acc:13753]	
FSIP1	Fibrous sheath interacting protein 1 [Source:HGNC Symbol;Acc:21674]	

FSIP2	Fibrous sheath interacting protein 2 [Source:HGNC Symbol;Acc:21675]	
FST	Follistatin [Source:HGNC Symbol;Acc:3971]	
FSTL1	Follistatin-like 1 [Source:HGNC Symbol;Acc:3972]	
FSTL4	Follistatin-like 4 [Source:HGNC Symbol;Acc:21389]	
FTO	Fat mass and obesity associated [Source:HGNC Symbol;Acc:24678]	
FTSJ2	Ftsj homolog 2 (E. Coli) [Source:HGNC Symbol;Acc:16352]	
FTSJD1	Ftsj methyltransferase domain containing 1 [Source:HGNC Symbol;Acc:25635]	
FTSJD2	Ftsj methyltransferase domain containing 2 [Source:HGNC Symbol;Acc:21077]	
FUCA1	Fucosidase, alpha-L- 1, tissue [Source:HGNC Symbol;Acc:4006]	
FUCA2	Fucosidase, alpha-L- 2, plasma [Source:HGNC Symbol;Acc:4008]	
FUNDC2	FUN14 domain containing 2 [Source:HGNC Symbol;Acc:24925]	
FURIN	Furin (paired basic amino acid cleaving enzyme) [Source:HGNC Symbol;Acc:8568]	
FUT11	Fucosyltransferase 11 (alpha (1,3) fucosyltransferase) [Source:HGNC Symbol;Acc:19233]	
FUT3	Fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group) [Source:HGNC Symbol;Acc:4014]	
FUT4	Fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) [Source:HGNC Symbol;Acc:4015]	
FUT6	Fucosyltransferase 6 (alpha (1,3) fucosyltransferase) [Source:HGNC Symbol;Acc:4017]	
FUT7	Fucosyltransferase 7 (alpha (1,3) fucosyltransferase) [Source:HGNC Symbol;Acc:4018]	
FXC1	Fracture callus 1 homolog (rat) [Source:HGNC Symbol;Acc:4022]	
FXYD4	FXYD domain containing ion transport regulator 4 [Source:HGNC Symbol;Acc:4028]	
FYCO1	FYVE and coiled-coil domain containing 1 [Source:HGNC Symbol;Acc:14673]	
FZD4	Frizzled homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:4042]	
FZD5	Frizzled homolog 5 (Drosophila) [Source:HGNC Symbol;Acc:4043]	
GAA	Glucosidase, alpha; acid [Source:HGNC Symbol;Acc:4065]	

GAB1	GRB2-associated binding protein 1 [Source:HGNC Symbol;Acc:4066]	
GAB2	GRB2-associated binding protein 2 [Source:HGNC Symbol;Acc:14458]	
GAB3	GRB2-associated binding protein 3 [Source:HGNC Symbol;Acc:17515]	
GAB4	GRB2-associated binding protein family, member 4 [Source:HGNC Symbol;Acc:18325]	
GABPB2	GA binding protein transcription factor, beta subunit 2 [Source:HGNC Symbol;Acc:28441]	
GABRA1	Gamma-aminobutyric acid (GABA) A receptor, alpha 1 [Source:HGNC Symbol;Acc:4075]	
GABRA4	Gamma-aminobutyric acid (GABA) A receptor, alpha 4 [Source:HGNC Symbol;Acc:4078]	
GABRB1	Gamma-aminobutyric acid (GABA) A receptor, beta 1 [Source:HGNC Symbol;Acc:4081]	
GABRB2	Gamma-aminobutyric acid (GABA) A receptor, beta 2 [Source:HGNC Symbol;Acc:4082]	
GABRD	Gamma-aminobutyric acid (GABA) A receptor, delta [Source:HGNC Symbol;Acc:4084]	
GABRG1	Gamma-aminobutyric acid (GABA) A receptor, gamma 1 [Source:HGNC Symbol;Acc:4086]	
GABRG3	Gamma-aminobutyric acid (GABA) A receptor, gamma 3 [Source:HGNC Symbol;Acc:4088]	
GABRR1	Gamma-aminobutyric acid (GABA) receptor, rho 1 [Source:HGNC Symbol;Acc:4090]	
GAD1	Glutamate decarboxylase 1 (brain, 67kda) [Source:HGNC Symbol;Acc:4092]	
GADD45A	Growth arrest and DNA-damage-inducible, alpha [Source:HGNC Symbol;Acc:4095]	
GADD45B	Growth arrest and DNA-damage-inducible, beta [Source:HGNC Symbol;Acc:4096]	
GADL1	Glutamate decarboxylase-like 1 [Source:HGNC Symbol;Acc:27949]	
GAGE1	G antigen 1 [Source:HGNC Symbol;Acc:4098]	
GAGE12C	G antigen 12C [Source:HGNC Symbol;Acc:28402]	
GAGE12D	G antigen 12D [Source:HGNC Symbol;Acc:31904]	

GAGE12E	G antigen 12E [Source:HGNC Symbol;Acc:31905]	
GAGE12F	G antigen 12F [Source:HGNC Symbol;Acc:31906]	
GAGE12G	G antigen 12G [Source:HGNC Symbol;Acc:31907]	
GAGE12I	G antigen 12I [Source:HGNC Symbol;Acc:4105]	
GAGE13	G antigen 13 [Source:HGNC Symbol;Acc:29081]	
GAGE2A	G antigen 2A [Source:HGNC Symbol;Acc:4099]	
GAGE2B	G antigen 2B [Source:HGNC Symbol;Acc:31957]	
GAGE2C	G antigen 2C [Source:HGNC Symbol;Acc:31958]	
GAGE2D	G antigen 2D [Source:HGNC Symbol;Acc:31959]	
GAGE2E	G antigen 2E [Source:HGNC Symbol;Acc:31960]	
GAGE4	G antigen 4 [Source:HGNC Symbol;Acc:4101]	
GAL3ST1	Galactose-3-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:24240]	
GALC	Galactosylceramidase [Source:HGNC Symbol;Acc:4115]	
GALK2	Galactokinase 2 [Source:HGNC Symbol;Acc:4119]	
GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (galnac-T3) [Source:HGNC Symbol;Acc:4125]	
GALNT5	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (galnac-T5) [Source:HGNC Symbol;Acc:4127]	
GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (galnac-T6) [Source:HGNC Symbol;Acc:4128]	
GALNT9	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 9 (galnac-T9) [Source:HGNC Symbol;Acc:4131]	
GALNTL1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1 [Source:HGNC Symbol;Acc:23233]	
GALNTL2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 2 [Source:HGNC Symbol;Acc:21531]	
GALR2	Galanin receptor 2 [Source:HGNC Symbol;Acc:4133]	
GALR3	Galanin receptor 3 [Source:HGNC Symbol;Acc:4134]	
GAN	Gigaxonin [Source:HGNC Symbol;Acc:4137]	

GANAB	Glucosidase, alpha; neutral AB [Source:HGNC Symbol;Acc:4138]	
GANC	Glucosidase, alpha; neutral C [Source:HGNC Symbol;Acc:4139]	
GAPVD1	Gtpase activating protein and VPS9 domains 1 [Source:HGNC Symbol;Acc:23375]	
GARNL3	Gtpase activating Rap/rangap domain-like 3 [Source:HGNC Symbol;Acc:25425]	
GARS	Glycyl-trna synthetase [Source:HGNC Symbol;Acc:4162]	
GAS6	Growth arrest-specific 6 [Source:HGNC Symbol;Acc:4168]	
GAS7	Growth arrest-specific 7	√
GAS8	Growth arrest-specific 8 [Source:HGNC Symbol;Acc:4166]	
GATA2	GATA binding protein 2	√
GATA3	GATA binding protein 3	√
GATAD2B	GATA zinc finger domain containing 2B [Source:HGNC Symbol;Acc:30778]	
GATM	Glycine amidinotransferase (L-arginine:glycine amidinotransferase) [Source:HGNC Symbol;Acc:4175]	
GATSL2	GATS protein-like 2 [Source:HGNC Symbol;Acc:37073]	
GBA2	Glucosidase, beta (bile acid) 2 [Source:HGNC Symbol;Acc:18986]	
GBF1	Golgi brefeldin A resistant guanine nucleotide exchange factor 1 [Source:HGNC Symbol;Acc:4181]	
GBGT1	Globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:20460]	
GBP4	Guanylate binding protein 4 [Source:HGNC Symbol;Acc:20480]	
GC	Group-specific component (vitamin D binding protein) [Source:HGNC Symbol;Acc:4187]	
GCAT	Glycine C-acetyltransferase [Source:HGNC Symbol;Acc:4188]	
GCDH	Glutaryl-coa dehydrogenase [Source:HGNC Symbol;Acc:4189]	
GCFC1	GC-rich sequence DNA-binding factor 1 [Source:HGNC Symbol;Acc:13579]	
GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast) [Source:HGNC Symbol;Acc:4199]	
GCNT3	Glucosaminyl (N-acetyl) transferase 3, mucin type [Source:HGNC Symbol;Acc:4205]	

GCNT7	Glucosaminyl (N-acetyl) transferase family member 7 [Source:HGNC Symbol;Acc:16099]	
GDA	Guanine deaminase [Source:HGNC Symbol;Acc:4212]	
GDF10	Growth differentiation factor 10 [Source:HGNC Symbol;Acc:4215]	
GDF11	Growth differentiation factor 11 [Source:HGNC Symbol;Acc:4216]	
GDF3	Growth differentiation factor 3 [Source:HGNC Symbol;Acc:4218]	
GDF5	Growth differentiation factor 5 [Source:HGNC Symbol;Acc:4220]	
GDF5OS	Growth differentiation factor 5 opposite strand [Source:HGNC Symbol;Acc:33435]	
GDF7	Growth differentiation factor 7 [Source:HGNC Symbol;Acc:4222]	
GDI1	GDP dissociation inhibitor 1 [Source:HGNC Symbol;Acc:4226]	
GDPD2	Glycerophosphodiester phosphodiesterase domain containing 2 [Source:HGNC Symbol;Acc:25974]	
GEMIN7	Gem (nuclear organelle) associated protein 7 [Source:HGNC Symbol;Acc:20045]	
GEN1	Gen homolog 1, endonuclease (Drosophila) [Source:HGNC Symbol;Acc:26881]	
GFM1	G elongation factor, mitochondrial 1 [Source:HGNC Symbol;Acc:13780]	
GFOD2	Glucose-fructose oxidoreductase domain containing 2 [Source:HGNC Symbol;Acc:28159]	
GFPT1	Glutamine--fructose-6-phosphate transaminase 1 [Source:HGNC Symbol;Acc:4241]	
GFRA2	GDNF family receptor alpha 2 [Source:HGNC Symbol;Acc:4244]	
GGA3	Golgi-associated, gamma adaptin ear containing, ARF binding protein 3 [Source:HGNC Symbol;Acc:17079]	
GGCX	Gamma-glutamyl carboxylase [Source:HGNC Symbol;Acc:4247]	
GGH	Gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase) [Source:HGNC Symbol;Acc:4248]	
GGT1	Gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:4250]	
GGT2	Gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:4251]	
GGT6	Gamma-glutamyltransferase 6 [Source:HGNC Symbol;Acc:26891]	
GGT7	Gamma-glutamyltransferase 7 [Source:HGNC Symbol;Acc:4259]	
GHDC	GH3 domain containing [Source:HGNC Symbol;Acc:24438]	

GHR	Growth hormone receptor [Source:HGNC Symbol;Acc:4263]	
GHSR	Growth hormone secretagogue receptor [Source:HGNC Symbol;Acc:4267]	
GIGYF1	GRB10 interacting GYF protein 1 [Source:HGNC Symbol;Acc:9126]	
GIGYF2	GRB10 interacting GYF protein 2 [Source:HGNC Symbol;Acc:11960]	
GINS2	GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Symbol;Acc:24575]	
GIPC1	GIPC PDZ domain containing family, member 1 [Source:HGNC Symbol;Acc:1226]	
GIPC2	GIPC PDZ domain containing family, member 2 [Source:HGNC Symbol;Acc:18177]	
GIT1	G protein-coupled receptor kinase interacting arfgap 1 [Source:HGNC Symbol;Acc:4272]	
GJB3	Gap junction protein, beta 3, 31kda [Source:HGNC Symbol;Acc:4285]	
GJB4	Gap junction protein, beta 4, 30.3kda [Source:HGNC Symbol;Acc:4286]	
GJB6	Gap junction protein, beta 6, 30kda [Source:HGNC Symbol;Acc:4288]	
GJB7	Gap junction protein, beta 7, 25kda [Source:HGNC Symbol;Acc:16690]	
GKN1	Gastrokine 1 [Source:HGNC Symbol;Acc:23217]	
GLB1	Galactosidase, beta 1 [Source:HGNC Symbol;Acc:4298]	
GLB1L	Galactosidase, beta 1-like [Source:HGNC Symbol;Acc:28129]	
GLB1L3	Galactosidase, beta 1-like 3 [Source:HGNC Symbol;Acc:25147]	
GLG1	Golgi glycoprotein 1 [Source:HGNC Symbol;Acc:4316]	
GLI2	GLI family zinc finger 2 [Source:HGNC Symbol;Acc:4318]	
GLI3	GLI family zinc finger 3 [Source:HGNC Symbol;Acc:4319]	
GLIPR1	GLI pathogenesis-related 1 [Source:HGNC Symbol;Acc:17001]	
GLIS3	GLIS family zinc finger 3 [Source:HGNC Symbol;Acc:28510]	
GLP2R	Glucagon-like peptide 2 receptor [Source:HGNC Symbol;Acc:4325]	
GLRA3	Glycine receptor, alpha 3 [Source:HGNC Symbol;Acc:4328]	
GLRX	Glutaredoxin (thioltransferase) [Source:HGNC Symbol;Acc:4330]	
GLRX2	Glutaredoxin 2 [Source:HGNC Symbol;Acc:16065]	
GLS	Glutaminase [Source:HGNC Symbol;Acc:4331]	
GLT1D1	Glycosyltransferase 1 domain containing 1 [Source:HGNC Symbol;Acc:26483]	

GLT25D2	Glycosyltransferase 25 domain containing 2 [Source:HGNC Symbol;Acc:16790]	
GLT8D1	Glycosyltransferase 8 domain containing 1 [Source:HGNC Symbol;Acc:24870]	
GLUD1	Glutamate dehydrogenase 1 [Source:HGNC Symbol;Acc:4335]	
GLYAT	Glycine-N-acyltransferase [Source:HGNC Symbol;Acc:13734]	
GLYATL2	Glycine-N-acyltransferase-like 2 [Source:HGNC Symbol;Acc:24178]	
GLYR1	Glyoxylate reductase 1 homolog (Arabidopsis) [Source:HGNC Symbol;Acc:24434]	
GMDS	GDP-mannose 4,6-dehydratase [Source:HGNC Symbol;Acc:4369]	
GMEB2	Glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:4371]	
GMFB	Glia maturation factor, beta [Source:HGNC Symbol;Acc:4373]	
GMIP	GEM interacting protein [Source:HGNC Symbol;Acc:24852]	
GMPPB	GDP-mannose pyrophosphorylase B [Source:HGNC Symbol;Acc:22932]	
GMPR2	Guanosine monophosphate reductase 2 [Source:HGNC Symbol;Acc:4377]	
GNA12	Guanine nucleotide binding protein (G protein) alpha 12 [Source:HGNC Symbol;Acc:4380]	
GNA14	Guanine nucleotide binding protein (G protein), alpha 14 [Source:HGNC Symbol;Acc:4382]	
GNAI2	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 [Source:HGNC Symbol;Acc:4385]	
GNAI3	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 [Source:HGNC Symbol;Acc:4387]	
GNAL	Guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type [Source:HGNC Symbol;Acc:4388]	
GNAO1	Guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [Source:HGNC Symbol;Acc:4389]	
GNAQ	Guanine nucleotide binding protein (G protein), q polypeptide	√
GNAS	GNAS complex locus	√
GNB1L	Guanine nucleotide binding protein (G protein), beta polypeptide 1-like [Source:HGNC Symbol;Acc:4397]	

GNB5	Guanine nucleotide binding protein (G protein), beta 5 [Source:HGNC Symbol;Acc:4401]	
GNG4	Guanine nucleotide binding protein (G protein), gamma 4 [Source:HGNC Symbol;Acc:4407]	
GNG5	Guanine nucleotide binding protein (G protein), gamma 5 [Source:HGNC Symbol;Acc:4408]	
GNL1	Guanine nucleotide binding protein-like 1 [Source:HGNC Symbol;Acc:4413]	
GNL3L	Guanine nucleotide binding protein-like 3 (nucleolar)-like [Source:HGNC Symbol;Acc:25553]	
GNMT	Glycine N-methyltransferase [Source:HGNC Symbol;Acc:4415]	
GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits [Source:HGNC Symbol;Acc:29670]	
GNS	Glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:4422]	
GOLGA3	Golgin A3 [Source:HGNC Symbol;Acc:4426]	
GOLGA4	Golgin A4 [Source:HGNC Symbol;Acc:4427]	
GOLGA5	Golgin A5	√
GOLGA6A	Golgin A6 family, member A [Source:HGNC Symbol;Acc:13567]	
GOLGA6L9	Golgin A6 family-like 9 [Source:HGNC Symbol;Acc:37229]	
GOLGA7	Golgin A7 [Source:HGNC Symbol;Acc:24876]	
GOLGA8A	Golgin A8 family, member A [Source:HGNC Symbol;Acc:31972]	
GOLGA8B	Golgin A8 family, member B [Source:HGNC Symbol;Acc:31973]	
GOLGB1	Golgin B1 [Source:HGNC Symbol;Acc:4429]	
GOLT1B	Golgi transport 1B [Source:HGNC Symbol;Acc:20175]	
GORAB	Golgin, RAB6-interacting [Source:HGNC Symbol;Acc:25676]	
GORASP1	Golgi reassembly stacking protein 1, 65kda [Source:HGNC Symbol;Acc:16769]	
GOSR1	Golgi SNAP receptor complex member 1 [Source:HGNC Symbol;Acc:4430]	
GOSR2	Golgi SNAP receptor complex member 2 [Source:HGNC Symbol;Acc:4431]	
GOT2	Glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) [Source:HGNC Symbol;Acc:4433]	

GP1BA	Glycoprotein Ib (platelet), alpha polypeptide [Source:HGNC Symbol;Acc:4439]	
GP2	Glycoprotein 2 (zymogen granule membrane) [Source:HGNC Symbol;Acc:4441]	
GPAA1	Glycosylphosphatidylinositol anchor attachment protein 1 homolog (yeast) [Source:HGNC Symbol;Acc:4446]	
GPAM	Glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:24865]	
GPAT2	Glycerol-3-phosphate acyltransferase 2, mitochondrial [Source:HGNC Symbol;Acc:27168]	
GPATCH1	G patch domain containing 1 [Source:HGNC Symbol;Acc:24658]	
GPBAR1	G protein-coupled bile acid receptor 1 [Source:HGNC Symbol;Acc:19680]	
GPBP1	GC-rich promoter binding protein 1 [Source:HGNC Symbol;Acc:29520]	
GPBP1L1	GC-rich promoter binding protein 1-like 1 [Source:HGNC Symbol;Acc:28843]	
GPC1	Glypican 1 [Source:HGNC Symbol;Acc:4449]	
GPC5	Glypican 5 [Source:HGNC Symbol;Acc:4453]	
GPD1	Glycerol-3-phosphate dehydrogenase 1 (soluble) [Source:HGNC Symbol;Acc:4455]	
GPHN	Gephyrin	√
GPIHBP1	Glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1 [Source:HGNC Symbol;Acc:24945]	
GPLD1	Glycosylphosphatidylinositol specific phospholipase D1 [Source:HGNC Symbol;Acc:4459]	
GPM6A	Glycoprotein M6A [Source:HGNC Symbol;Acc:4460]	
GPM6B	Glycoprotein M6B [Source:HGNC Symbol;Acc:4461]	
GPN1	GPN-loop gtpase 1 [Source:HGNC Symbol;Acc:17030]	
GPR107	G protein-coupled receptor 107 [Source:HGNC Symbol;Acc:17830]	
GPR109A	G protein-coupled receptor 109A [Source:HGNC Symbol;Acc:24827]	
GPR110	G protein-coupled receptor 110 [Source:HGNC Symbol;Acc:18990]	
GPR111	G protein-coupled receptor 111 [Source:HGNC Symbol;Acc:18991]	
GPR112	G protein-coupled receptor 112 [Source:HGNC Symbol;Acc:18992]	
GPR116	G protein-coupled receptor 116 [Source:HGNC Symbol;Acc:19030]	

GPR120	G protein-coupled receptor 120 [Source:HGNC Symbol;Acc:19061]	
GPR123	G protein-coupled receptor 123 [Source:HGNC Symbol;Acc:13838]	
GPR124	G protein-coupled receptor 124 [Source:HGNC Symbol;Acc:17849]	
GPR125	G protein-coupled receptor 125 [Source:HGNC Symbol;Acc:13839]	
GPR126	G protein-coupled receptor 126 [Source:HGNC Symbol;Acc:13841]	
GPR141	G protein-coupled receptor 141 [Source:HGNC Symbol;Acc:19997]	
GPR15	G protein-coupled receptor 15 [Source:HGNC Symbol;Acc:4469]	
GPR151	G protein-coupled receptor 151 [Source:HGNC Symbol;Acc:23624]	
GPR155	G protein-coupled receptor 155 [Source:HGNC Symbol;Acc:22951]	
GPR157	G protein-coupled receptor 157 [Source:HGNC Symbol;Acc:23687]	
GPR160	G protein-coupled receptor 160 [Source:HGNC Symbol;Acc:23693]	
GPR162	G protein-coupled receptor 162 [Source:HGNC Symbol;Acc:16693]	
GPR17	G protein-coupled receptor 17 [Source:HGNC Symbol;Acc:4471]	
GPR171	G protein-coupled receptor 171 [Source:HGNC Symbol;Acc:30057]	
GPR176	G protein-coupled receptor 176 [Source:HGNC Symbol;Acc:32370]	
GPR179	G protein-coupled receptor 179 [Source:HGNC Symbol;Acc:31371]	
GPR18	G protein-coupled receptor 18 [Source:HGNC Symbol;Acc:4472]	
GPR22	G protein-coupled receptor 22 [Source:HGNC Symbol;Acc:4477]	
GPR3	G protein-coupled receptor 3 [Source:HGNC Symbol;Acc:4484]	
GPR35	G protein-coupled receptor 35 [Source:HGNC Symbol;Acc:4492]	
GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:4496]	
GPR50	G protein-coupled receptor 50 [Source:HGNC Symbol;Acc:4506]	
GPR55	G protein-coupled receptor 55 [Source:HGNC Symbol;Acc:4511]	
GPR56	G protein-coupled receptor 56 [Source:HGNC Symbol;Acc:4512]	
GPR61	G protein-coupled receptor 61 [Source:HGNC Symbol;Acc:13300]	
GPR64	G protein-coupled receptor 64 [Source:HGNC Symbol;Acc:4516]	
GPR75	G protein-coupled receptor 75 [Source:HGNC Symbol;Acc:4526]	
GPR81	G protein-coupled receptor 81 [Source:HGNC Symbol;Acc:4532]	
GPR87	G protein-coupled receptor 87 [Source:HGNC Symbol;Acc:4538]	
GPR88	G protein-coupled receptor 88 [Source:HGNC Symbol;Acc:4539]	
GPR97	G protein-coupled receptor 97 [Source:HGNC Symbol;Acc:13728]	
GPR98	G protein-coupled receptor 98 [Source:HGNC Symbol;Acc:17416]	

GPRASP2	G protein-coupled receptor associated sorting protein 2 [Source:HGNC Symbol;Acc:25169]	
GPRC5A	G protein-coupled receptor, family C, group 5, member A [Source:HGNC Symbol;Acc:9836]	
GPRC5C	G protein-coupled receptor, family C, group 5, member C [Source:HGNC Symbol;Acc:13309]	
GPRC5D	G protein-coupled receptor, family C, group 5, member D [Source:HGNC Symbol;Acc:13310]	
GPRIN1	G protein regulated inducer of neurite outgrowth 1 [Source:HGNC Symbol;Acc:24835]	
GPRIN2	G protein regulated inducer of neurite outgrowth 2 [Source:HGNC Symbol;Acc:23730]	
GPRIN3	GPRIN family member 3 [Source:HGNC Symbol;Acc:27733]	
GPS1	G protein pathway suppressor 1 [Source:HGNC Symbol;Acc:4549]	
GPS2	G protein pathway suppressor 2 [Source:HGNC Symbol;Acc:4550]	
GPSM2	G-protein signaling modulator 2 [Source:HGNC Symbol;Acc:29501]	
GPT2	Glutamic pyruvate transaminase (alanine aminotransferase) 2 [Source:HGNC Symbol;Acc:18062]	
GPX4	Glutathione peroxidase 4 (phospholipid hydroperoxidase) [Source:HGNC Symbol;Acc:4556]	
GRAMD1B	GRAM domain containing 1B [Source:HGNC Symbol;Acc:29214]	
GRAMD4	GRAM domain containing 4 [Source:HGNC Symbol;Acc:29113]	
GRAP2	GRB2-related adaptor protein 2 [Source:HGNC Symbol;Acc:4563]	
GRB10	Growth factor receptor-bound protein 10 [Source:HGNC Symbol;Acc:4564]	
GREB1	Growth regulation by estrogen in breast cancer 1 [Source:HGNC Symbol;Acc:24885]	
GREB1L	Growth regulation by estrogen in breast cancer-like [Source:HGNC Symbol;Acc:31042]	
GREM1	Gremlin 1 [Source:HGNC Symbol;Acc:2001]	
GREM2	Gremlin 2 [Source:HGNC Symbol;Acc:17655]	
GRHL3	Grainyhead-like 3 (Drosophila) [Source:HGNC Symbol;Acc:25839]	

GRIA1	Glutamate receptor, ionotropic, AMPA 1 [Source:HGNC Symbol;Acc:4571]	
GRIA3	Glutamate receptor, ionotrophic, AMPA 3 [Source:HGNC Symbol;Acc:4573]	
GRIA4	Glutamate receptor, ionotrophic, AMPA 4 [Source:HGNC Symbol;Acc:4574]	
GRID1	Glutamate receptor, ionotropic, delta 1 [Source:HGNC Symbol;Acc:4575]	
GRID2	Glutamate receptor, ionotropic, delta 2 [Source:HGNC Symbol;Acc:4576]	
GRID2IP	Glutamate receptor, ionotropic, delta 2 (Grid2) interacting protein [Source:HGNC Symbol;Acc:18464]	
GRIK2	Glutamate receptor, ionotropic, kainate 2 [Source:HGNC Symbol;Acc:4580]	
GRIK3	Glutamate receptor, ionotropic, kainate 3 [Source:HGNC Symbol;Acc:4581]	
GRIK5	Glutamate receptor, ionotropic, kainate 5 [Source:HGNC Symbol;Acc:4583]	
GRIN1	Glutamate receptor, ionotropic, N-methyl D-aspartate 1 [Source:HGNC Symbol;Acc:4584]	
GRIN2A	Glutamate receptor, ionotropic, N-methyl D-aspartate 2A [Source:HGNC Symbol;Acc:4585]	
GRIN2B	Glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Source:HGNC Symbol;Acc:4586]	
GRIN3A	Glutamate receptor, ionotropic, N-methyl-D-aspartate 3A [Source:HGNC Symbol;Acc:16767]	
GRK5	G protein-coupled receptor kinase 5 [Source:HGNC Symbol;Acc:4544]	
GRM1	Glutamate receptor, metabotropic 1 [Source:HGNC Symbol;Acc:4593]	
GRM4	Glutamate receptor, metabotropic 4 [Source:HGNC Symbol;Acc:4596]	
GRM5	Glutamate receptor, metabotropic 5 [Source:HGNC Symbol;Acc:4597]	
GRM8	Glutamate receptor, metabotropic 8 [Source:HGNC Symbol;Acc:4600]	
GRN	Granulin [Source:HGNC Symbol;Acc:4601]	
GRPEL1	Grpe-like 1, mitochondrial (E. Coli) [Source:HGNC Symbol;Acc:19696]	
GRPEL2	Grpe-like 2, mitochondrial (E. Coli) [Source:HGNC Symbol;Acc:21060]	
GRSF1	G-rich RNA sequence binding factor 1 [Source:HGNC Symbol;Acc:4610]	

GRWD1	Glutamate-rich WD repeat containing 1 [Source:HGNC Symbol;Acc:21270]	
GSDMA	Gasdermin A [Source:HGNC Symbol;Acc:13311]	
GSDMC	Gasdermin C [Source:HGNC Symbol;Acc:7151]	
GSDMD	Gasdermin D [Source:HGNC Symbol;Acc:25697]	
GSG1L	GSG1-like [Source:HGNC Symbol;Acc:28283]	
GSK3A	Glycogen synthase kinase 3 alpha [Source:HGNC Symbol;Acc:4616]	
GSN	Gelsolin [Source:HGNC Symbol;Acc:4620]	
GSPT1	G1 to S phase transition 1 [Source:HGNC Symbol;Acc:4621]	
GSPT2	G1 to S phase transition 2 [Source:HGNC Symbol;Acc:4622]	
GSR	Glutathione reductase [Source:HGNC Symbol;Acc:4623]	
GSS	Glutathione synthetase [Source:HGNC Symbol;Acc:4624]	
GSTK1	Glutathione S-transferase kappa 1 [Source:HGNC Symbol;Acc:16906]	
GSTM3	Glutathione S-transferase mu 3 (brain) [Source:HGNC Symbol;Acc:4635]	
GSTM5	Glutathione S-transferase mu 5 [Source:HGNC Symbol;Acc:4637]	
GSTT1	Glutathione S-transferase theta 1 [Source:HGNC Symbol;Acc:4641]	
GTF2B	General transcription factor IIB [Source:HGNC Symbol;Acc:4648]	
GTF2E1	General transcription factor IIE, polypeptide 1, alpha 56kda [Source:HGNC Symbol;Acc:4650]	
GTF2E2	General transcription factor IIE, polypeptide 2, beta 34kda [Source:HGNC Symbol;Acc:4651]	
GTF3C1	General transcription factor IIIC, polypeptide 1, alpha 220kda [Source:HGNC Symbol;Acc:4664]	
GTF3C3	General transcription factor IIIC, polypeptide 3, 102kda [Source:HGNC Symbol;Acc:4666]	
GTF3C4	General transcription factor IIIC, polypeptide 4, 90kda [Source:HGNC Symbol;Acc:4667]	
GTF3C5	General transcription factor IIIC, polypeptide 5, 63kda [Source:HGNC Symbol;Acc:4668]	
GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:4669]	
GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:4670]	
GUCA1B	Guanylate cyclase activator 1B (retina) [Source:HGNC Symbol;Acc:4679]	
GUCY1A3	Guanylate cyclase 1, soluble, alpha 3 [Source:HGNC Symbol;Acc:4685]	
GUCY2F	Guanylate cyclase 2F, retinal [Source:HGNC Symbol;Acc:4691]	

GUK1	Guanylate kinase 1 [Source:HGNC Symbol;Acc:4693]	
GUSB	Glucuronidase, beta [Source:HGNC Symbol;Acc:4696]	
GXYLT1	Glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:27482]	
GYG2	Glycogenin 2 [Source:HGNC Symbol;Acc:4700]	
GYLTL1B	Glycosyltransferase-like 1B [Source:HGNC Symbol;Acc:16522]	
GYPC	Glycophorin C (Gerbich blood group) [Source:HGNC Symbol;Acc:4704]	
GYS2	Glycogen synthase 2 (liver) [Source:HGNC Symbol;Acc:4707]	
H1F0	H1 histone family, member 0 [Source:HGNC Symbol;Acc:4714]	
H2AFY	H2A histone family, member Y [Source:HGNC Symbol;Acc:4740]	
H2AFZ	H2A histone family, member Z [Source:HGNC Symbol;Acc:4741]	
H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Source:HGNC Symbol;Acc:4795]	
HACL1	2-hydroxyacyl-coa lyase 1 [Source:HGNC Symbol;Acc:17856]	
HADHA	Hydroxyacyl-coa dehydrogenase/3-ketoacyl-coa thiolase/enoyl-coa hydratase (trifunctional protein), alpha subunit [Source:HGNC Symbol;Acc:4801]	
HADHB	Hydroxyacyl-coa dehydrogenase/3-ketoacyl-coa thiolase/enoyl-coa hydratase (trifunctional protein), beta subunit [Source:HGNC Symbol;Acc:4803]	
HAMP	Hepcidin antimicrobial peptide [Source:HGNC Symbol;Acc:15598]	
HAND2	Heart and neural crest derivatives expressed 2 [Source:HGNC Symbol;Acc:4808]	
HAO1	Hydroxyacid oxidase (glycolate oxidase) 1 [Source:HGNC Symbol;Acc:4809]	
HAPLN1	Hyaluronan and proteoglycan link protein 1 [Source:HGNC Symbol;Acc:2380]	
HARS	Histidyl-trna synthetase [Source:HGNC Symbol;Acc:4816]	
HARS2	Histidyl-trna synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:4817]	
HAS3	Hyaluronan synthase 3 [Source:HGNC Symbol;Acc:4820]	
HAUS3	HAUS augmin-like complex, subunit 3 [Source:HGNC Symbol;Acc:28719]	
HAUS4	HAUS augmin-like complex, subunit 4 [Source:HGNC Symbol;Acc:20163]	
HAUS5	HAUS augmin-like complex, subunit 5 [Source:HGNC Symbol;Acc:29130]	

HAUS6	HAUS augmin-like complex, subunit 6 [Source:HGNC Symbol;Acc:25948]	
HBEGF	Heparin-binding EGF-like growth factor [Source:HGNC Symbol;Acc:3059]	
HBXIP	Hepatitis B virus x interacting protein [Source:HGNC Symbol;Acc:17955]	
HCN2	Hyperpolarization activated cyclic nucleotide-gated potassium channel 2 [Source:HGNC Symbol;Acc:4846]	
HCN3	Hyperpolarization activated cyclic nucleotide-gated potassium channel 3 [Source:HGNC Symbol;Acc:19183]	
HCN4	Hyperpolarization activated cyclic nucleotide-gated potassium channel 4 [Source:HGNC Symbol;Acc:16882]	
HDAC10	Histone deacetylase 10 [Source:HGNC Symbol;Acc:18128]	
HDAC2	Histone deacetylase 2 [Source:HGNC Symbol;Acc:4853]	
HDAC4	Histone deacetylase 4 [Source:HGNC Symbol;Acc:14063]	
HDAC5	Histone deacetylase 5 [Source:HGNC Symbol;Acc:14068]	
HDAC6	Histone deacetylase 6 [Source:HGNC Symbol;Acc:14064]	
HDAC7	Histone deacetylase 7 [Source:HGNC Symbol;Acc:14067]	
HDAC8	Histone deacetylase 8 [Source:HGNC Symbol;Acc:13315]	
HDAC9	Histone deacetylase 9 [Source:HGNC Symbol;Acc:14065]	
HDHD1	Haloacid dehalogenase-like hydrolase domain containing 1 [Source:HGNC Symbol;Acc:16818]	
HDHD2	Haloacid dehalogenase-like hydrolase domain containing 2 [Source:HGNC Symbol;Acc:25364]	
HEATR1	HEAT repeat containing 1 [Source:HGNC Symbol;Acc:25517]	
HEATR2	HEAT repeat containing 2 [Source:HGNC Symbol;Acc:26013]	
HEATR5A	HEAT repeat containing 5A [Source:HGNC Symbol;Acc:20276]	
HEATR6	HEAT repeat containing 6 [Source:HGNC Symbol;Acc:24076]	
HEATR7A	HEAT repeat containing 7A [Source:HGNC Symbol;Acc:26958]	
HECTD3	HECT domain containing 3 [Source:HGNC Symbol;Acc:26117]	
HEG1	HEG homolog 1 (zebrafish) [Source:HGNC Symbol;Acc:29227]	
HELB	Helicase (DNA) B [Source:HGNC Symbol;Acc:17196]	
HELLS	Helicase, lymphoid-specific [Source:HGNC Symbol;Acc:4861]	
HELZ	Helicase with zinc finger [Source:HGNC Symbol;Acc:16878]	
HEMK1	Hemk methyltransferase family member 1 [Source:HGNC Symbol;Acc:24923]	

HENMT1	HEN1 methyltransferase homolog 1 (Arabidopsis) [Source:HGNC Symbol;Acc:26400]	
HEPH	Hephaestin [Source:HGNC Symbol;Acc:4866]	
HERC1	Hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1 [Source:HGNC Symbol;Acc:4867]	
HERC2	Hect domain and RLD 2 [Source:HGNC Symbol;Acc:4868]	
HERC4	Hect domain and RLD 4 [Source:HGNC Symbol;Acc:24521]	
HERC6	Hect domain and RLD 6 [Source:HGNC Symbol;Acc:26072]	
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	√
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 [Source:HGNC Symbol;Acc:13744]	
HEXB	Hexosaminidase B (beta polypeptide) [Source:HGNC Symbol;Acc:4879]	
HEXIM1	Hexamethylene bis-acetamide inducible 1 [Source:HGNC Symbol;Acc:24953]	
HEYL	Hairy/enhancer-of-split related with YRPW motif-like [Source:HGNC Symbol;Acc:4882]	
HFE	Hemochromatosis [Source:HGNC Symbol;Acc:4886]	
HGF	Hepatocyte growth factor (hepapoietin A; scatter factor) [Source:HGNC Symbol;Acc:4893]	
HGSNAT	Heparan-alpha-glucosaminide N-acetyltransferase [Source:HGNC Symbol;Acc:26527]	
HHAT	Hedgehog acyltransferase [Source:HGNC Symbol;Acc:18270]	
HHIP	Hedgehog interacting protein [Source:HGNC Symbol;Acc:14866]	
HHIPL2	HHIP-like 2 [Source:HGNC Symbol;Acc:25842]	
HHLA1	HERV-H LTR-associating 1 [Source:HGNC Symbol;Acc:4904]	
HHLA2	HERV-H LTR-associating 2 [Source:HGNC Symbol;Acc:4905]	
HIAT1	Hippocampus abundant transcript 1 [Source:HGNC Symbol;Acc:23363]	
HIC1	Hypermethylated in cancer 1 [Source:HGNC Symbol;Acc:4909]	
HIC2	Hypermethylated in cancer 2 [Source:HGNC Symbol;Acc:18595]	
HIF1AN	Hypoxia inducible factor 1, alpha subunit inhibitor [Source:HGNC Symbol;Acc:17113]	

HIF3A	Hypoxia inducible factor 3, alpha subunit [Source:HGNC Symbol;Acc:15825]	
HIGD2A	HIG1 hypoxia inducible domain family, member 2A [Source:HGNC Symbol;Acc:28311]	
HINT1	Histidine triad nucleotide binding protein 1 [Source:HGNC Symbol;Acc:4912]	
HINT3	Histidine triad nucleotide binding protein 3 [Source:HGNC Symbol;Acc:18468]	
HIP1	Huntingtin interacting protein 1	√
HIPK1	Homeodomain interacting protein kinase 1 [Source:HGNC Symbol;Acc:19006]	
HIPK2	Homeodomain interacting protein kinase 2 [Source:HGNC Symbol;Acc:14402]	
HIPK4	Homeodomain interacting protein kinase 4 [Source:HGNC Symbol;Acc:19007]	
HIRA	HIR histone cell cycle regulation defective homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:4916]	
HIST1H4A	Histone cluster 1, H4a [Source:HGNC Symbol;Acc:4781]	
HIST1H4E	Histone cluster 1, H4e [Source:HGNC Symbol;Acc:4790]	
HIST1H4F	Histone cluster 1, H4f [Source:HGNC Symbol;Acc:4783]	
HIST1H4H	Histone cluster 1, H4h [Source:HGNC Symbol;Acc:4788]	
HIST2H3A	Histone cluster 2, H3a [Source:HGNC Symbol;Acc:20505]	
HIST2H3C	Histone cluster 2, H3c [Source:HGNC Symbol;Acc:20503]	
HIST2H4A	Histone cluster 2, H4a [Source:HGNC Symbol;Acc:4794]	
HIST2H4B	Histone cluster 2, H4b [Source:HGNC Symbol;Acc:29607]	
HIST4H4	Histone cluster 4, H4 [Source:HGNC Symbol;Acc:20510]	
HIVEP1	Human immunodeficiency virus type I enhancer binding protein 1 [Source:HGNC Symbol;Acc:4920]	
HIVEP2	Human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:4921]	
HIVEP3	Human immunodeficiency virus type I enhancer binding protein 3 [Source:HGNC Symbol;Acc:13561]	
HKDC1	Hexokinase domain containing 1 [Source:HGNC Symbol;Acc:23302]	

HLA-DMB	Major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]	
HLA-DOA	Major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]	
HLA-DPB1	Major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:4940]	
HLA-DQA2	Major histocompatibility complex, class II, DQ alpha 2 [Source:HGNC Symbol;Acc:4943]	
HLA-E	Major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]	
HLA-G	Major histocompatibility complex, class I, G [Source:HGNC Symbol;Acc:4964]	
HLA-L	Major histocompatibility complex, class I, L, pseudogene [Source:HGNC Symbol;Acc:4970]	
HLCS	Holocarboxylase synthetase (biotin-(proprionyl-coa-carboxylase (ATP-hydrolysing)) ligase) [Source:HGNC Symbol;Acc:4976]	
HLTF	Helicase-like transcription factor [Source:HGNC Symbol;Acc:11099]	
HLX	H2.0-like homeobox [Source:HGNC Symbol;Acc:4978]	
HMBOX1	Homeobox containing 1 [Source:HGNC Symbol;Acc:26137]	
HMCN1	Hemicentin 1 [Source:HGNC Symbol;Acc:19194]	
HMGA1	High mobility group AT-hook 1	√
HMGA2	High mobility group AT-hook 2	√
HMGB1	High-mobility group box 1 [Source:HGNC Symbol;Acc:4983]	
HMGB2	High-mobility group box 2 [Source:HGNC Symbol;Acc:5000]	
HMGB3	High-mobility group box 3 [Source:HGNC Symbol;Acc:5004]	
HMGB4	High-mobility group box 4 [Source:HGNC Symbol;Acc:24954]	
HMGCR	3-hydroxy-3-methylglutaryl-coa reductase [Source:HGNC Symbol;Acc:5006]	
HMHA1	Histocompatibility (minor) HA-1 [Source:HGNC Symbol;Acc:17102]	
HNF1A	HNF1 homeobox A [Source:HGNC Symbol;Acc:11621]	
HNF4A	Hepatocyte nuclear factor 4, alpha [Source:HGNC Symbol;Acc:5024]	
HNF4G	Hepatocyte nuclear factor 4, gamma [Source:HGNC Symbol;Acc:5026]	

HNRNPF	Heterogeneous nuclear ribonucleoprotein F [Source:HGNC Symbol;Acc:5039]	
HNRNPH1	Heterogeneous nuclear ribonucleoprotein H1 (H) [Source:HGNC Symbol;Acc:5041]	
HNRNPH2	Heterogeneous nuclear ribonucleoprotein H2 (H') [Source:HGNC Symbol;Acc:5042]	
HNRNPK	Heterogeneous nuclear ribonucleoprotein K [Source:HGNC Symbol;Acc:5044]	
HNRNPR	Heterogeneous nuclear ribonucleoprotein R [Source:HGNC Symbol;Acc:5047]	
HNRNPU	Heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) [Source:HGNC Symbol;Acc:5048]	
HNRPLL	Heterogeneous nuclear ribonucleoprotein L-like [Source:HGNC Symbol;Acc:25127]	
HOMER1	Homer homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:17512]	
HOOK1	Hook homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19884]	
HOXA1	Homeobox A1 [Source:HGNC Symbol;Acc:5099]	
HOXA7	Homeobox A7 [Source:HGNC Symbol;Acc:5108]	
HOXB4	Homeobox B4 [Source:HGNC Symbol;Acc:5115]	
HOXB5	Homeobox B5 [Source:HGNC Symbol;Acc:5116]	
HOXC10	Homeobox C10 [Source:HGNC Symbol;Acc:5122]	
HOXC6	Homeobox C6 [Source:HGNC Symbol;Acc:5128]	
HOXD10	Homeobox D10 [Source:HGNC Symbol;Acc:5133]	
HOXD8	Homeobox D8 [Source:HGNC Symbol;Acc:5139]	
HOXD9	Homeobox D9 [Source:HGNC Symbol;Acc:5140]	
HPCAL4	Hippocalcin like 4 [Source:HGNC Symbol;Acc:18212]	
HPS3	Hermansky-Pudlak syndrome 3 [Source:HGNC Symbol;Acc:15597]	
HPX	Hemopexin [Source:HGNC Symbol;Acc:5171]	
HR	Hairless homolog (mouse) [Source:HGNC Symbol;Acc:5172]	
HRAS	V-Ha-ras Harvey rat sarcoma viral oncogene homolog	√
HRH4	Histamine receptor H4 [Source:HGNC Symbol;Acc:17383]	
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:5193]	

HS3ST1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:5194]	
HS3ST3B1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1 [Source:HGNC Symbol;Acc:5198]	
HSD11B1L	Hydroxysteroid (11-beta) dehydrogenase 1-like [Source:HGNC Symbol;Acc:30419]	
HSD17B2	Hydroxysteroid (17-beta) dehydrogenase 2 [Source:HGNC Symbol;Acc:5211]	
HSD17B6	Hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse) [Source:HGNC Symbol;Acc:23316]	
HSD17B7	Hydroxysteroid (17-beta) dehydrogenase 7 [Source:HGNC Symbol;Acc:5215]	
HSDL2	Hydroxysteroid dehydrogenase like 2 [Source:HGNC Symbol;Acc:18572]	
HSP90AB1	Heat shock protein 90kda alpha (cytosolic), class B member 1 [Source:HGNC Symbol;Acc:5258]	
HSPA12A	Heat shock 70kda protein 12A [Source:HGNC Symbol;Acc:19022]	
HSPA12B	Heat shock 70kd protein 12B [Source:HGNC Symbol;Acc:16193]	
HSPA13	Heat shock protein 70kda family, member 13 [Source:HGNC Symbol;Acc:11375]	
HSPA14	Heat shock 70kda protein 14 [Source:HGNC Symbol;Acc:29526]	
HSPA1L	Heat shock 70kda protein 1-like [Source:HGNC Symbol;Acc:5234]	
HSPA4	Heat shock 70kda protein 4 [Source:HGNC Symbol;Acc:5237]	
HSPA4L	Heat shock 70kda protein 4-like [Source:HGNC Symbol;Acc:17041]	
HSPA8	Heat shock 70kda protein 8 [Source:HGNC Symbol;Acc:5241]	
HSPB1	Heat shock 27kda protein 1 [Source:HGNC Symbol;Acc:5246]	
HSPB11	Heat shock protein family B (small), member 11 [Source:HGNC Symbol;Acc:25019]	
HSPB3	Heat shock 27kda protein 3 [Source:HGNC Symbol;Acc:5248]	
HSPB9	Heat shock protein, alpha-crystallin-related, B9 [Source:HGNC Symbol;Acc:30589]	
HSPBP1	HSPA (heat shock 70kda) binding protein, cytoplasmic cochaperone 1 [Source:HGNC Symbol;Acc:24989]	

HSPD1	Heat shock 60kda protein 1 (chaperonin) [Source:HGNC Symbol;Acc:5261]	
HSPG2	Heparan sulfate proteoglycan 2 [Source:HGNC Symbol;Acc:5273]	
HSPH1	Heat shock 105kda/110kda protein 1 [Source:HGNC Symbol;Acc:16969]	
HTR1D	5-hydroxytryptamine (serotonin) receptor 1D [Source:HGNC Symbol;Acc:5289]	
HTR1F	5-hydroxytryptamine (serotonin) receptor 1F [Source:HGNC Symbol;Acc:5292]	
HTR2A	5-hydroxytryptamine (serotonin) receptor 2A [Source:HGNC Symbol;Acc:5293]	
HTR2C	5-hydroxytryptamine (serotonin) receptor 2C [Source:HGNC Symbol;Acc:5295]	
HTR3A	5-hydroxytryptamine (serotonin) receptor 3A [Source:HGNC Symbol;Acc:5297]	
HTR7	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled) [Source:HGNC Symbol;Acc:5302]	
HTT	Huntingtin [Source:HGNC Symbol;Acc:4851]	
HUNK	Hormonally up-regulated Neu-associated kinase [Source:HGNC Symbol;Acc:13326]	
HUWE1	HECT, UBA and WWE domain containing 1 [Source:HGNC Symbol;Acc:30892]	
HVCN1	Hydrogen voltage-gated channel 1 [Source:HGNC Symbol;Acc:28240]	
HYAL2	Hyaluronoglucosaminidase 2 [Source:HGNC Symbol;Acc:5321]	
HYDIN	Hydrocephalus inducing homolog (mouse) [Source:HGNC Symbol;Acc:19368]	
HYI	Hydroxypyruvate isomerase (putative) [Source:HGNC Symbol;Acc:26948]	
HYOU1	Hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:16931]	
IAH1	Isoamyl acetate-hydrolyzing esterase 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:27696]	
IAPP	Islet amyloid polypeptide [Source:HGNC Symbol;Acc:5329]	
IARS	Isoleucyl-trna synthetase [Source:HGNC Symbol;Acc:5330]	
IARS2	Isoleucyl-trna synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:29685]	

ICA1	Islet cell autoantigen 1, 69kda [Source:HGNC Symbol;Acc:5343]	
ICAM2	Intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:5345]	
ICAM3	Intercellular adhesion molecule 3 [Source:HGNC Symbol;Acc:5346]	
ICAM4	Intercellular adhesion molecule 4 (Landsteiner-Wiener blood group) [Source:HGNC Symbol;Acc:5347]	
ICK	Intestinal cell (MAK-like) kinase [Source:HGNC Symbol;Acc:21219]	
ICOSLG	Inducible T-cell co-stimulator ligand [Source:HGNC Symbol;Acc:17087]	
ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein [Source:HGNC Symbol;Acc:5363]	
IDE	Insulin-degrading enzyme [Source:HGNC Symbol;Acc:5381]	
IDH1	Isocitrate dehydrogenase 1 ($NADP^+$), soluble	√
IDH2	Isocitrate dehydrogenase 2 ($NADP^+$), mitochondrial	√
IDH3B	Isocitrate dehydrogenase 3 (NAD^+) beta [Source:HGNC Symbol;Acc:5385]	
IDI1	Isopentenyl-diphosphate delta isomerase 1 [Source:HGNC Symbol;Acc:5387]	
IDS	Iduronate 2-sulfatase [Source:HGNC Symbol;Acc:5389]	
IDUA	Iduronidase, alpha-L- [Source:HGNC Symbol;Acc:5391]	
IFFO1	Intermediate filament family orphan 1 [Source:HGNC Symbol;Acc:24970]	
IFI30	Interferon, gamma-inducible protein 30 [Source:HGNC Symbol;Acc:5398]	
IFI44	Interferon-induced protein 44 [Source:HGNC Symbol;Acc:16938]	
IFNA1	Interferon, alpha 1 [Source:HGNC Symbol;Acc:5417]	
IFNA2	Interferon, alpha 2 [Source:HGNC Symbol;Acc:5423]	
IFNA21	Interferon, alpha 21 [Source:HGNC Symbol;Acc:5424]	
IFNA5	Interferon, alpha 5 [Source:HGNC Symbol;Acc:5426]	
IFNA6	Interferon, alpha 6 [Source:HGNC Symbol;Acc:5427]	
IFNA8	Interferon, alpha 8 [Source:HGNC Symbol;Acc:5429]	
IFNAR1	Interferon (alpha, beta and omega) receptor 1 [Source:HGNC Symbol;Acc:5432]	
IFNAR2	Interferon (alpha, beta and omega) receptor 2 [Source:HGNC Symbol;Acc:5433]	
IFNB1	Interferon, beta 1, fibroblast [Source:HGNC Symbol;Acc:5434]	
IFNGR1	Interferon gamma receptor 1 [Source:HGNC Symbol;Acc:5439]	

IFT140	Intraflagellar transport 140 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:29077]	
IFT172	Intraflagellar transport 172 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:30391]	
IFT20	Intraflagellar transport 20 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:30989]	
IFT46	Intraflagellar transport 46 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:26146]	
IFT57	Intraflagellar transport 57 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:17367]	
IFT80	Intraflagellar transport 80 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:29262]	
IFT81	Intraflagellar transport 81 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:14313]	
IGDCC4	Immunoglobulin superfamily, DCC subclass, member 4 [Source:HGNC Symbol;Acc:13770]	
IGF1R	Insulin-like growth factor 1 receptor [Source:HGNC Symbol;Acc:5465]	
IGF2	Insulin-like growth factor 2 (somatomedin A) [Source:HGNC Symbol;Acc:5466]	
IGF2BP1	Insulin-like growth factor 2 mrna binding protein 1 [Source:HGNC Symbol;Acc:28866]	
IGF2BP2	Insulin-like growth factor 2 mrna binding protein 2 [Source:HGNC Symbol;Acc:28867]	
IGF2BP3	Insulin-like growth factor 2 mrna binding protein 3 [Source:HGNC Symbol;Acc:28868]	
IGF2R	Insulin-like growth factor 2 receptor [Source:HGNC Symbol;Acc:5467]	
IGFBP4	Insulin-like growth factor binding protein 4 [Source:HGNC Symbol;Acc:5473]	
IGKC	Immunoglobulin kappa constant [Source:HGNC Symbol;Acc:5716]	
IGKV4-1	Immunoglobulin kappa variable 4-1 [Source:HGNC Symbol;Acc:5834]	
IGLC1	Immunoglobulin lambda constant 1 (Mcg marker) [Source:HGNC Symbol;Acc:5855]	

IGLC2	Immunoglobulin lambda constant 2 (Kern-Oz- marker) [Source:HGNC Symbol;Acc:5856]	
IGLC3	Immunoglobulin lambda constant 3 (Kern-Oz+ marker) [Source:HGNC Symbol;Acc:5857]	
IGLV5-37	Immunoglobulin lambda variable 5-37 [Source:HGNC Symbol;Acc:5922]	
IGLV5-45	Immunoglobulin lambda variable 5-45 [Source:HGNC Symbol;Acc:5924]	
IGLV5-52	Immunoglobulin lambda variable 5-52 [Source:HGNC Symbol;Acc:5926]	
IGSF1	Immunoglobulin superfamily, member 1 [Source:HGNC Symbol;Acc:5948]	
IGSF11	Immunoglobulin superfamily, member 11 [Source:HGNC Symbol;Acc:16669]	
IGSF22	Immunoglobulin superfamily, member 22 [Source:HGNC Symbol;Acc:26750]	
IGSF3	Immunoglobulin superfamily, member 3 [Source:HGNC Symbol;Acc:5950]	
IKBKAP	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein [Source:HGNC Symbol;Acc:5959]	
IKBKE	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon [Source:HGNC Symbol;Acc:14552]	
IKZF5	IKAROS family zinc finger 5 (Pegasus) [Source:HGNC Symbol;Acc:14283]	
IL10	Interleukin 10 [Source:HGNC Symbol;Acc:5962]	
IL12A	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [Source:HGNC Symbol;Acc:5969]	
IL12RB2	Interleukin 12 receptor, beta 2 [Source:HGNC Symbol;Acc:5972]	
IL13RA1	Interleukin 13 receptor, alpha 1 [Source:HGNC Symbol;Acc:5974]	
IL15	Interleukin 15 [Source:HGNC Symbol;Acc:5977]	
IL17B	Interleukin 17B [Source:HGNC Symbol;Acc:5982]	
IL17RA	Interleukin 17 receptor A [Source:HGNC Symbol;Acc:5985]	
IL17REL	Interleukin 17 receptor E-like [Source:HGNC Symbol;Acc:33808]	
IL18	Interleukin 18 (interferon-gamma-inducing factor) [Source:HGNC Symbol;Acc:5986]	
IL18R1	Interleukin 18 receptor 1 [Source:HGNC Symbol;Acc:5988]	
IL19	Interleukin 19 [Source:HGNC Symbol;Acc:5990]	
IL1B	Interleukin 1, beta [Source:HGNC Symbol;Acc:5992]	
IL1R1	Interleukin 1 receptor, type I [Source:HGNC Symbol;Acc:5993]	

IL1R2	Interleukin 1 receptor, type II [Source:HGNC Symbol;Acc:5994]	
IL1RAPL2	Interleukin 1 receptor accessory protein-like 2 [Source:HGNC Symbol;Acc:5997]	
IL20RB	Interleukin 20 receptor beta [Source:HGNC Symbol;Acc:6004]	
IL28B	Interleukin 28B (interferon, lambda 3) [Source:HGNC Symbol;Acc:18365]	
IL2RA	Interleukin 2 receptor, alpha [Source:HGNC Symbol;Acc:6008]	
IL2RB	Interleukin 2 receptor, beta [Source:HGNC Symbol;Acc:6009]	
IL2RG	Interleukin 2 receptor, gamma [Source:HGNC Symbol;Acc:6010]	
IL31RA	Interleukin 31 receptor A [Source:HGNC Symbol;Acc:18969]	
IL33	Interleukin 33 [Source:HGNC Symbol;Acc:16028]	
IL4R	Interleukin 4 receptor [Source:HGNC Symbol;Acc:6015]	
IL6R	Interleukin 6 receptor [Source:HGNC Symbol;Acc:6019]	
IL6ST	Interleukin 6 signal transducer (gp130, oncostatin M receptor)	√
IL7R	Interleukin 7 receptor	√
IL9R	Interleukin 9 receptor [Source:HGNC Symbol;Acc:6030]	
ILDR1	Immunoglobulin-like domain containing receptor 1 [Source:HGNC Symbol;Acc:28741]	
ILDR2	Immunoglobulin-like domain containing receptor 2 [Source:HGNC Symbol;Acc:18131]	
ILVBL	Ilvb (bacterial acetolactate synthase)-like [Source:HGNC Symbol;Acc:6041]	
IMMT	Inner membrane protein, mitochondrial [Source:HGNC Symbol;Acc:6047]	
IMPA1	Inositol(myo)-1(or 4)-monophosphatase 1 [Source:HGNC Symbol;Acc:6050]	
IMPDH2	IMP (inosine 5'-monophosphate) dehydrogenase 2 [Source:HGNC Symbol;Acc:6053]	
INADL	Inad-like (Drosophila) [Source:HGNC Symbol;Acc:28881]	
INCENP	Inner centromere protein antigens 135/155kda [Source:HGNC Symbol;Acc:6058]	
INHBA	Inhibin, beta A [Source:HGNC Symbol;Acc:6066]	
INHBB	Inhibin, beta B [Source:HGNC Symbol;Acc:6067]	
INMT	Indolethylamine N-methyltransferase [Source:HGNC Symbol;Acc:6069]	
INO80	INO80 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:26956]	
INO80D	INO80 complex subunit D [Source:HGNC Symbol;Acc:25997]	

INO80E	INO80 complex subunit E [Source:HGNC Symbol;Acc:26905]	
INPP4B	Inositol polyphosphate-4-phosphatase, type II, 105kda [Source:HGNC Symbol;Acc:6075]	
INPP5A	Inositol polyphosphate-5-phosphatase, 40kda [Source:HGNC Symbol;Acc:6076]	
INPP5B	Inositol polyphosphate-5-phosphatase, 75kda [Source:HGNC Symbol;Acc:6077]	
INPP5D	Inositol polyphosphate-5-phosphatase, 145kda [Source:HGNC Symbol;Acc:6079]	
INPP5F	Inositol polyphosphate-5-phosphatase F [Source:HGNC Symbol;Acc:17054]	
INPPL1	Inositol polyphosphate phosphatase-like 1 [Source:HGNC Symbol;Acc:6080]	
INSIG1	Insulin induced gene 1 [Source:HGNC Symbol;Acc:6083]	
INSR	Insulin receptor [Source:HGNC Symbol;Acc:6091]	
INSRR	Insulin receptor-related receptor [Source:HGNC Symbol;Acc:6093]	
INTS1	Integrator complex subunit 1 [Source:HGNC Symbol;Acc:24555]	
INTS10	Integrator complex subunit 10 [Source:HGNC Symbol;Acc:25548]	
INTS2	Integrator complex subunit 2 [Source:HGNC Symbol;Acc:29241]	
INTS5	Integrator complex subunit 5 [Source:HGNC Symbol;Acc:29352]	
INTS8	Integrator complex subunit 8 [Source:HGNC Symbol;Acc:26048]	
INTU	Inturned planar cell polarity effector homolog (Drosophila) [Source:HGNC Symbol;Acc:29239]	
IPCEF1	Interaction protein for cytohesin exchange factors 1 [Source:HGNC Symbol;Acc:21204]	
IPO13	Importin 13 [Source:HGNC Symbol;Acc:16853]	
IPO5	Importin 5 [Source:HGNC Symbol;Acc:6402]	
IPO9	Importin 9 [Source:HGNC Symbol;Acc:19425]	
IQCA1	IQ motif containing with AAA domain 1 [Source:HGNC Symbol;Acc:26195]	
IQCG	IQ motif containing G [Source:HGNC Symbol;Acc:25251]	
IQCH	IQ motif containing H [Source:HGNC Symbol;Acc:25721]	

IQGAP1	IQ motif containing gtpase activating protein 1 [Source:HGNC Symbol;Acc:6110]	
IQGAP2	IQ motif containing gtpase activating protein 2 [Source:HGNC Symbol;Acc:6111]	
IQGAP3	IQ motif containing gtpase activating protein 3 [Source:HGNC Symbol;Acc:20669]	
IQSEC1	IQ motif and Sec7 domain 1 [Source:HGNC Symbol;Acc:29112]	
IRAK3	Interleukin-1 receptor-associated kinase 3 [Source:HGNC Symbol;Acc:17020]	
IREB2	Iron-responsive element binding protein 2 [Source:HGNC Symbol;Acc:6115]	
IRF1	Interferon regulatory factor 1 [Source:HGNC Symbol;Acc:6116]	
IRF2BPL	Interferon regulatory factor 2 binding protein-like [Source:HGNC Symbol;Acc:14282]	
IRF5	Interferon regulatory factor 5 [Source:HGNC Symbol;Acc:6120]	
IRGQ	Immunity-related gtpase family, Q [Source:HGNC Symbol;Acc:24868]	
IRS1	Insulin receptor substrate 1 [Source:HGNC Symbol;Acc:6125]	
IRS2	Insulin receptor substrate 2 [Source:HGNC Symbol;Acc:6126]	
IRX6	Iroquois homeobox 6 [Source:HGNC Symbol;Acc:14675]	
ISCU	Iron-sulfur cluster scaffold homolog (E. Coli) [Source:HGNC Symbol;Acc:29882]	
ISG20	Interferon stimulated exonuclease gene 20kda [Source:HGNC Symbol;Acc:6130]	
ISLR2	Immunoglobulin superfamily containing leucine-rich repeat 2 [Source:HGNC Symbol;Acc:29286]	
ISM2	Isthmin 2 homolog (zebrafish) [Source:HGNC Symbol;Acc:23176]	
ISOC1	Isochorismatase domain containing 1 [Source:HGNC Symbol;Acc:24254]	
ISPD	Isoprenoid synthase domain containing [Source:HGNC Symbol;Acc:37276]	
ISX	Intestine-specific homeobox [Source:HGNC Symbol;Acc:28084]	
ISY1	ISY1 splicing factor homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29201]	
ISYNA1	Inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:29821]	

ITCH	Itchy E3 ubiquitin protein ligase homolog (mouse) [Source:HGNC Symbol;Acc:13890]	
ITFG3	Integrin alpha FG-GAP repeat containing 3 [Source:HGNC Symbol;Acc:14163]	
ITGA10	Integrin, alpha 10 [Source:HGNC Symbol;Acc:6135]	
ITGA11	Integrin, alpha 11 [Source:HGNC Symbol;Acc:6136]	
ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) [Source:HGNC Symbol;Acc:6137]	
ITGA4	Integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Source:HGNC Symbol;Acc:6140]	
ITGA5	Integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [Source:HGNC Symbol;Acc:6141]	
ITGAE	Integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide) [Source:HGNC Symbol;Acc:6147]	
ITGB1BP1	Integrin beta 1 binding protein 1 [Source:HGNC Symbol;Acc:23927]	
ITGB1BP2	Integrin beta 1 binding protein (melusin) 2 [Source:HGNC Symbol;Acc:6154]	
ITGB2	Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) [Source:HGNC Symbol;Acc:6155]	
ITGB4	Integrin, beta 4 [Source:HGNC Symbol;Acc:6158]	
ITGB5	Integrin, beta 5 [Source:HGNC Symbol;Acc:6160]	
ITGB7	Integrin, beta 7 [Source:HGNC Symbol;Acc:6162]	
ITIH2	Inter-alpha (globulin) inhibitor H2 [Source:HGNC Symbol;Acc:6167]	
ITIH3	Inter-alpha (globulin) inhibitor H3 [Source:HGNC Symbol;Acc:6168]	
ITIH5L	Inter-alpha (globulin) inhibitor H5-like [Source:HGNC Symbol;Acc:28907]	
ITK	IL2-inducible T-cell kinase	√
ITLN1	Intelectin 1 (galactofuranose binding) [Source:HGNC Symbol;Acc:18259]	
ITM2A	Integral membrane protein 2A [Source:HGNC Symbol;Acc:6173]	
ITPKB	Inositol 1,4,5-trisphosphate 3-kinase B [Source:HGNC Symbol;Acc:6179]	
ITPR1	Inositol 1,4,5-triphosphate receptor, type 1 [Source:HGNC Symbol;Acc:6180]	
ITPR2	Inositol 1,4,5-triphosphate receptor, type 2 [Source:HGNC Symbol;Acc:6181]	

ITPR3	Inositol 1,4,5-triphosphate receptor, type 3 [Source:HGNC Symbol;Acc:6182]	
ITPRIPL1	Inositol 1,4,5-triphosphate receptor interacting protein-like 1 [Source:HGNC Symbol;Acc:29371]	
ITPRIPL2	Inositol 1,4,5-triphosphate receptor interacting protein-like 2 [Source:HGNC Symbol;Acc:27257]	
ITSN1	Intersectin 1 (SH3 domain protein) [Source:HGNC Symbol;Acc:6183]	
ITSN2	Intersectin 2 [Source:HGNC Symbol;Acc:6184]	
IVNS1ABP	Influenza virus NS1A binding protein [Source:HGNC Symbol;Acc:16951]	
IYD	Iodotyrosine deiodinase [Source:HGNC Symbol;Acc:21071]	
IZUMO1	Izumo sperm-egg fusion 1 [Source:HGNC Symbol;Acc:28539]	
JAG1	Jagged 1 [Source:HGNC Symbol;Acc:6188]	
JAG2	Jagged 2 [Source:HGNC Symbol;Acc:6189]	
JAK3	Janus kinase 3	√
JAKMIP3	Janus kinase and microtubule interacting protein 3 [Source:HGNC Symbol;Acc:23523]	
JAZF1	JAZF zinc finger 1	√
JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:17546]	
JMJD4	Jumonji domain containing 4 [Source:HGNC Symbol;Acc:25724]	
JMJD5	Jumonji domain containing 5 [Source:HGNC Symbol;Acc:25840]	
JMJD6	Jumonji domain containing 6 [Source:HGNC Symbol;Acc:19355]	
JMJD7	Jumonji domain containing 7 [Source:HGNC Symbol;Acc:34397]	
JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough [Source:HGNC Symbol;Acc:34449]	
JOSD1	Josephin domain containing 1 [Source:HGNC Symbol;Acc:28953]	
JTB	Jumping translocation breakpoint [Source:HGNC Symbol;Acc:6201]	
JUN	Jun proto-oncogene	√
JUND	Jun D proto-oncogene [Source:HGNC Symbol;Acc:6206]	
KAAG1	Kidney associated antigen 1 [Source:HGNC Symbol;Acc:21031]	
KALRN	Kalirin, rhogef kinase [Source:HGNC Symbol;Acc:4814]	
KANK1	KN motif and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:19309]	
KAT2A	K(lysine) acetyltransferase 2A [Source:HGNC Symbol;Acc:4201]	

KATNA1	Katanin p60 (atpase containing) subunit A 1 [Source:HGNC Symbol;Acc:6216]	
KATNAL2	Katanin p60 subunit A-like 2 [Source:HGNC Symbol;Acc:25387]	
KAZALD1	Kazal-type serine peptidase inhibitor domain 1 [Source:HGNC Symbol;Acc:25460]	
KAZN	Kazrin, periplakin interacting protein [Source:HGNC Symbol;Acc:29173]	
KBTBD10	Kelch repeat and BTB (POZ) domain containing 10 [Source:HGNC Symbol;Acc:16905]	
KBTBD11	Kelch repeat and BTB (POZ) domain containing 11 [Source:HGNC Symbol;Acc:29104]	
KBTBD12	Kelch repeat and BTB (POZ) domain containing 12 [Source:HGNC Symbol;Acc:25731]	
KBTBD8	Kelch repeat and BTB (POZ) domain containing 8 [Source:HGNC Symbol;Acc:30691]	
KCNA1	Potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) [Source:HGNC Symbol;Acc:6218]	
KCNA4	Potassium voltage-gated channel, shaker-related subfamily, member 4 [Source:HGNC Symbol;Acc:6222]	
KCNA7	Potassium voltage-gated channel, shaker-related subfamily, member 7 [Source:HGNC Symbol;Acc:6226]	
KCNB1	Potassium voltage-gated channel, Shab-related subfamily, member 1 [Source:HGNC Symbol;Acc:6231]	
KCNC4	Potassium voltage-gated channel, Shaw-related subfamily, member 4 [Source:HGNC Symbol;Acc:6236]	
KCND1	Potassium voltage-gated channel, Shal-related subfamily, member 1 [Source:HGNC Symbol;Acc:6237]	
KCND2	Potassium voltage-gated channel, Shal-related subfamily, member 2 [Source:HGNC Symbol;Acc:6238]	
KCND3	Potassium voltage-gated channel, Shal-related subfamily, member 3 [Source:HGNC Symbol;Acc:6239]	
KCNE2	Potassium voltage-gated channel, Isk-related family, member 2 [Source:HGNC Symbol;Acc:6242]	

KCNG1	Potassium voltage-gated channel, subfamily G, member 1 [Source:HGNC Symbol;Acc:6248]	
KCNG3	Potassium voltage-gated channel, subfamily G, member 3 [Source:HGNC Symbol;Acc:18306]	
KCNG4	Potassium voltage-gated channel, subfamily G, member 4 [Source:HGNC Symbol;Acc:19697]	
KCNH1	Potassium voltage-gated channel, subfamily H (eag-related), member 1 [Source:HGNC Symbol;Acc:6250]	
KCNH3	Potassium voltage-gated channel, subfamily H (eag-related), member 3 [Source:HGNC Symbol;Acc:6252]	
KCNH6	Potassium voltage-gated channel, subfamily H (eag-related), member 6 [Source:HGNC Symbol;Acc:18862]	
KCNIP3	Kv channel interacting protein 3, calsenilin [Source:HGNC Symbol;Acc:15523]	
KCNJ1	Potassium inwardly-rectifying channel, subfamily J, member 1 [Source:HGNC Symbol;Acc:6255]	
KCNJ12	Potassium inwardly-rectifying channel, subfamily J, member 12 [Source:HGNC Symbol;Acc:6258]	
KCNJ15	Potassium inwardly-rectifying channel, subfamily J, member 15 [Source:HGNC Symbol;Acc:6261]	
KCNJ16	Potassium inwardly-rectifying channel, subfamily J, member 16 [Source:HGNC Symbol;Acc:6262]	
KCNJ2	Potassium inwardly-rectifying channel, subfamily J, member 2 [Source:HGNC Symbol;Acc:6263]	
KCNJ5	Potassium inwardly-rectifying channel, subfamily J, member 5	√
KCNJ9	Potassium inwardly-rectifying channel, subfamily J, member 9 [Source:HGNC Symbol;Acc:6270]	
KCNK10	Potassium channel, subfamily K, member 10 [Source:HGNC Symbol;Acc:6273]	
KCNK17	Potassium channel, subfamily K, member 17 [Source:HGNC Symbol;Acc:14465]	
KCNK2	Potassium channel, subfamily K, member 2 [Source:HGNC Symbol;Acc:6277]	

KCNK3	Potassium channel, subfamily K, member 3 [Source:HGNC Symbol;Acc:6278]	
KCNK4	Potassium channel, subfamily K, member 4 [Source:HGNC Symbol;Acc:6279]	
KCNK5	Potassium channel, subfamily K, member 5 [Source:HGNC Symbol;Acc:6280]	
KCNK6	Potassium channel, subfamily K, member 6 [Source:HGNC Symbol;Acc:6281]	
KCNMA1	Potassium large conductance calcium-activated channel, subfamily M, alpha member 1 [Source:HGNC Symbol;Acc:6284]	
KCNMB4	Potassium large conductance calcium-activated channel, subfamily M, beta member 4 [Source:HGNC Symbol;Acc:6289]	
KCNN1	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1 [Source:HGNC Symbol;Acc:6290]	
KCNQ1	Potassium voltage-gated channel, KQT-like subfamily, member 1 [Source:HGNC Symbol;Acc:6294]	
KCNQ3	Potassium voltage-gated channel, KQT-like subfamily, member 3 [Source:HGNC Symbol;Acc:6297]	
KCNQ4	Potassium voltage-gated channel, KQT-like subfamily, member 4 [Source:HGNC Symbol;Acc:6298]	
KCNS1	Potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1 [Source:HGNC Symbol;Acc:6300]	
KCTD10	Potassium channel tetramerisation domain containing 10 [Source:HGNC Symbol;Acc:23236]	
KCTD12	Potassium channel tetramerisation domain containing 12 [Source:HGNC Symbol;Acc:14678]	
KCTD14	Potassium channel tetramerisation domain containing 14 [Source:HGNC Symbol;Acc:23295]	
KCTD15	Potassium channel tetramerisation domain containing 15 [Source:HGNC Symbol;Acc:23297]	
KCTD16	Potassium channel tetramerisation domain containing 16 [Source:HGNC Symbol;Acc:29244]	

KCTD18	Potassium channel tetramerisation domain containing 18 [Source:HGNC Symbol;Acc:26446]	
KCTD2	Potassium channel tetramerisation domain containing 2 [Source:HGNC Symbol;Acc:21294]	
KCTD3	Potassium channel tetramerisation domain containing 3 [Source:HGNC Symbol;Acc:21305]	
KCTD6	Potassium channel tetramerisation domain containing 6 [Source:HGNC Symbol;Acc:22235]	
KCTD7	Potassium channel tetramerisation domain containing 7 [Source:HGNC Symbol;Acc:21957]	
KDM1A	Lysine (K)-specific demethylase 1A [Source:HGNC Symbol;Acc:29079]	
KDM2B	Lysine (K)-specific demethylase 2B [Source:HGNC Symbol;Acc:13610]	
KDM3A	Lysine (K)-specific demethylase 3A [Source:HGNC Symbol;Acc:20815]	
KDM4A	Lysine (K)-specific demethylase 4A [Source:HGNC Symbol;Acc:22978]	
KDM4C	Lysine (K)-specific demethylase 4C [Source:HGNC Symbol;Acc:17071]	
KDM5A	Lysine (K)-specific demethylase 5A	√
KDM5B	Lysine (K)-specific demethylase 5B [Source:HGNC Symbol;Acc:18039]	
KDSR	3-ketodihydrosphingosine reductase [Source:HGNC Symbol;Acc:4021]	
KEAP1	Kelch-like ECH-associated protein 1 [Source:HGNC Symbol;Acc:23177]	
KEL	Kell blood group, metallo-endopeptidase [Source:HGNC Symbol;Acc:6308]	
KHDC1	KH homology domain containing 1 [Source:HGNC Symbol;Acc:21366]	
KHDRBS1	KH domain containing, RNA binding, signal transduction associated 1 [Source:HGNC Symbol;Acc:18116]	
KHNYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:20166]	
KIAA0087	KIAA0087 [Source:HGNC Symbol;Acc:22191]	
KIAA0090	KIAA0090 [Source:HGNC Symbol;Acc:28957]	
KIAA0141	KIAA0141 [Source:HGNC Symbol;Acc:28969]	
KIAA0182	KIAA0182 [Source:HGNC Symbol;Acc:28979]	
KIAA0195	KIAA0195 [Source:HGNC Symbol;Acc:28983]	
KIAA0196	KIAA0196 [Source:HGNC Symbol;Acc:28984]	
KIAA0226	KIAA0226 [Source:HGNC Symbol;Acc:28991]	
KIAA0232	KIAA0232 [Source:HGNC Symbol;Acc:28992]	

KIAA0240	KIAA0240 [Source:HGNC Symbol;Acc:21111]	
KIAA0284	KIAA0284 [Source:HGNC Symbol;Acc:20362]	
KIAA0319L	KIAA0319-like [Source:HGNC Symbol;Acc:30071]	
KIAA0355	KIAA0355 [Source:HGNC Symbol;Acc:29016]	
KIAA0391	KIAA0391 [Source:HGNC Symbol;Acc:19958]	
KIAA0430	KIAA0430 [Source:HGNC Symbol;Acc:29562]	
KIAA0467	KIAA0467 [Source:HGNC Symbol;Acc:29040]	
KIAA0564	KIAA0564 [Source:HGNC Symbol;Acc:29071]	
KIAA0586	KIAA0586 [Source:HGNC Symbol;Acc:19960]	
KIAA0649	KIAA0649 [Source:HGNC Symbol;Acc:29089]	
KIAA0664	KIAA0664 [Source:HGNC Symbol;Acc:29094]	
KIAA0753	KIAA0753 [Source:HGNC Symbol;Acc:29110]	
KIAA0889	KIAA0889 [Source:HGNC Symbol;Acc:16111]	
KIAA0895	KIAA0895 [Source:HGNC Symbol;Acc:22206]	
KIAA0930	KIAA0930 [Source:HGNC Symbol;Acc:1314]	
KIAA0947	KIAA0947 [Source:HGNC Symbol;Acc:29154]	
KIAA1009	KIAA1009 [Source:HGNC Symbol;Acc:21107]	
KIAA1024	KIAA1024 [Source:HGNC Symbol;Acc:29172]	
KIAA1033	KIAA1033 [Source:HGNC Symbol;Acc:29174]	
KIAA1045	KIAA1045 [Source:HGNC Symbol;Acc:29180]	
KIAA1109	KIAA1109 [Source:HGNC Symbol;Acc:26953]	
KIAA1199	KIAA1199 [Source:HGNC Symbol;Acc:29213]	
KIAA1217	KIAA1217 [Source:HGNC Symbol;Acc:25428]	
KIAA1244	KIAA1244 [Source:HGNC Symbol;Acc:21213]	
KIAA1257	KIAA1257 [Source:HGNC Symbol;Acc:29231]	
KIAA1267	KIAA1267 [Source:HGNC Symbol;Acc:24565]	
KIAA1274	KIAA1274 [Source:HGNC Symbol;Acc:23530]	
KIAA1310	KIAA1310 [Source:HGNC Symbol;Acc:25473]	
KIAA1324	KIAA1324 [Source:HGNC Symbol;Acc:29618]	
KIAA1328	KIAA1328 [Source:HGNC Symbol;Acc:29248]	
KIAA1409	KIAA1409 [Source:HGNC Symbol;Acc:19966]	
KIAA1430	KIAA1430 [Source:HGNC Symbol;Acc:29276]	
KIAA1462	KIAA1462 [Source:HGNC Symbol;Acc:29283]	

KIAA1522	KIAA1522 [Source:HGNC Symbol;Acc:29301]	
KIAA1524	KIAA1524 [Source:HGNC Symbol;Acc:29302]	
KIAA1539	KIAA1539 [Source:HGNC Symbol;Acc:25666]	
KIAA1549	KIAA1549	√
KIAA1598	KIAA1598 [Source:HGNC Symbol;Acc:29319]	
KIAA1614	KIAA1614 [Source:HGNC Symbol;Acc:29327]	
KIAA1632	KIAA1632 [Source:HGNC Symbol;Acc:29331]	
KIAA1671	KIAA1671 [Source:HGNC Symbol;Acc:29345]	
KIAA1683	KIAA1683 [Source:HGNC Symbol;Acc:29350]	
KIAA1712	KIAA1712 [Source:HGNC Symbol;Acc:29356]	
KIAA1715	KIAA1715 [Source:HGNC Symbol;Acc:21610]	
KIAA1755	KIAA1755 [Source:HGNC Symbol;Acc:29372]	
KIAA1797	KIAA1797 [Source:HGNC Symbol;Acc:23377]	
KIAA1841	KIAA1841 [Source:HGNC Symbol;Acc:29387]	
KIAA1967	KIAA1967 [Source:HGNC Symbol;Acc:23360]	
KIAA2013	KIAA2013 [Source:HGNC Symbol;Acc:28513]	
KIAA2018	KIAA2018 [Source:HGNC Symbol;Acc:30494]	
KIAA2022	KIAA2022 [Source:HGNC Symbol;Acc:29433]	
KIDINS220	Kinase D-interacting substrate, 220kda [Source:HGNC Symbol;Acc:29508]	
KIF12	Kinesin family member 12 [Source:HGNC Symbol;Acc:21495]	
KIF14	Kinesin family member 14 [Source:HGNC Symbol;Acc:19181]	
KIF1A	Kinesin family member 1A [Source:HGNC Symbol;Acc:888]	
KIF1B	Kinesin family member 1B [Source:HGNC Symbol;Acc:16636]	
KIF1C	Kinesin family member 1C [Source:HGNC Symbol;Acc:6317]	
KIF21A	Kinesin family member 21A [Source:HGNC Symbol;Acc:19349]	
KIF26A	Kinesin family member 26A [Source:HGNC Symbol;Acc:20226]	
KIF26B	Kinesin family member 26B [Source:HGNC Symbol;Acc:25484]	
KIF2B	Kinesin family member 2B [Source:HGNC Symbol;Acc:29443]	
KIF3A	Kinesin family member 3A [Source:HGNC Symbol;Acc:6319]	
KIF3B	Kinesin family member 3B [Source:HGNC Symbol;Acc:6320]	
KIF3C	Kinesin family member 3C [Source:HGNC Symbol;Acc:6321]	
KIF4A	Kinesin family member 4A [Source:HGNC Symbol;Acc:13339]	
KIF4B	Kinesin family member 4B [Source:HGNC Symbol;Acc:6322]	

KIF5C	Kinesin family member 5C [Source:HGNC Symbol;Acc:6325]	
KIF6	Kinesin family member 6 [Source:HGNC Symbol;Acc:21202]	
KIF9	Kinesin family member 9 [Source:HGNC Symbol;Acc:16666]	
KIR2DL1	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1 [Source:HGNC Symbol;Acc:6329]	
KIRREL	Kin of IRRE like (Drosophila) [Source:HGNC Symbol;Acc:15734]	
KIRREL2	Kin of IRRE like 2 (Drosophila) [Source:HGNC Symbol;Acc:18816]	
KIRREL3	Kin of IRRE like 3 (Drosophila) [Source:HGNC Symbol;Acc:23204]	
KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	√
KITLG	KIT ligand [Source:HGNC Symbol;Acc:6343]	
KL	Klotho [Source:HGNC Symbol;Acc:6344]	
KLB	Klotho beta [Source:HGNC Symbol;Acc:15527]	
KLF10	Kruppel-like factor 10 [Source:HGNC Symbol;Acc:11810]	
KLF11	Kruppel-like factor 11 [Source:HGNC Symbol;Acc:11811]	
KLF13	Kruppel-like factor 13 [Source:HGNC Symbol;Acc:13672]	
KLF3	Kruppel-like factor 3 (basic) [Source:HGNC Symbol;Acc:16516]	
KLF5	Kruppel-like factor 5 (intestinal) [Source:HGNC Symbol;Acc:6349]	
KLF6	Kruppel-like factor 6 [Source:HGNC Symbol;Acc:2235]	
KLF7	Kruppel-like factor 7 (ubiquitous) [Source:HGNC Symbol;Acc:6350]	
KLF8	Kruppel-like factor 8 [Source:HGNC Symbol;Acc:6351]	
KLHDC10	Kelch domain containing 10 [Source:HGNC Symbol;Acc:22194]	
KLHDC4	Kelch domain containing 4 [Source:HGNC Symbol;Acc:25272]	
KLHDC5	Kelch domain containing 5 [Source:HGNC Symbol;Acc:29252]	
KLHDC7B	Kelch domain containing 7B [Source:HGNC Symbol;Acc:25145]	
KLHL1	Kelch-like 1 (Drosophila) [Source:HGNC Symbol;Acc:6352]	
KLHL10	Kelch-like 10 (Drosophila) [Source:HGNC Symbol;Acc:18829]	
KLHL12	Kelch-like 12 (Drosophila) [Source:HGNC Symbol;Acc:19360]	
KLHL13	Kelch-like 13 (Drosophila) [Source:HGNC Symbol;Acc:22931]	
KLHL15	Kelch-like 15 (Drosophila) [Source:HGNC Symbol;Acc:29347]	
KLHL17	Kelch-like 17 (Drosophila) [Source:HGNC Symbol;Acc:24023]	
KLHL18	Kelch-like 18 (Drosophila) [Source:HGNC Symbol;Acc:29120]	
KLHL20	Kelch-like 20 (Drosophila) [Source:HGNC Symbol;Acc:25056]	
KLHL23	Kelch-like 23 (Drosophila) [Source:HGNC Symbol;Acc:27506]	

KLHL24	Kelch-like 24 (Drosophila) [Source:HGNC Symbol;Acc:25947]	
KLHL25	Kelch-like 25 (Drosophila) [Source:HGNC Symbol;Acc:25732]	
KLHL26	Kelch-like 26 (Drosophila) [Source:HGNC Symbol;Acc:25623]	
KLHL28	Kelch-like 28 (Drosophila) [Source:HGNC Symbol;Acc:19741]	
KLHL3	Kelch-like 3 (Drosophila) [Source:HGNC Symbol;Acc:6354]	
KLHL30	Kelch-like 30 (Drosophila) [Source:HGNC Symbol;Acc:24770]	
KLHL31	Kelch-like 31 (Drosophila) [Source:HGNC Symbol;Acc:21353]	
KLHL33	Kelch-like 33 (Drosophila) [Source:HGNC Symbol;Acc:31952]	
KLHL34	Kelch-like 34 (Drosophila) [Source:HGNC Symbol;Acc:26634]	
KLHL35	Kelch-like 35 (Drosophila) [Source:HGNC Symbol;Acc:26597]	
KLHL36	Kelch-like 36 (Drosophila) [Source:HGNC Symbol;Acc:17844]	
KLHL4	Kelch-like 4 (Drosophila) [Source:HGNC Symbol;Acc:6355]	
KLHL5	Kelch-like 5 (Drosophila) [Source:HGNC Symbol;Acc:6356]	
KLHL6	Kelch-like 6 (Drosophila) [Source:HGNC Symbol;Acc:18653]	
KLHL8	Kelch-like 8 (Drosophila) [Source:HGNC Symbol;Acc:18644]	
KLHL9	Kelch-like 9 (Drosophila) [Source:HGNC Symbol;Acc:18732]	
KLK5	Kallikrein-related peptidase 5 [Source:HGNC Symbol;Acc:6366]	
KLK6	Kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:6367]	
KLK8	Kallikrein-related peptidase 8 [Source:HGNC Symbol;Acc:6369]	
KLK9	Kallikrein-related peptidase 9 [Source:HGNC Symbol;Acc:6370]	
KLRB1	Killer cell lectin-like receptor subfamily B, member 1 [Source:HGNC Symbol;Acc:6373]	
KLRF1	Killer cell lectin-like receptor subfamily F, member 1 [Source:HGNC Symbol;Acc:13342]	
KLRG2	Killer cell lectin-like receptor subfamily G, member 2 [Source:HGNC Symbol;Acc:24778]	
KNDC1	Kinase non-catalytic C-lobe domain (KIND) containing 1 [Source:HGNC Symbol;Acc:29374]	
KNTC1	Kinetochore associated 1 [Source:HGNC Symbol;Acc:17255]	
KPNA1	Karyopherin alpha 1 (importin alpha 5) [Source:HGNC Symbol;Acc:6394]	
KPNA3	Karyopherin alpha 3 (importin alpha 4) [Source:HGNC Symbol;Acc:6396]	
KPNA4	Karyopherin alpha 4 (importin alpha 3) [Source:HGNC Symbol;Acc:6397]	
KPNA6	Karyopherin alpha 6 (importin alpha 7) [Source:HGNC Symbol;Acc:6399]	

KPNB1	Karyopherin (importin) beta 1 [Source:HGNC Symbol;Acc:6400]	
KPRP	Keratinocyte proline-rich protein [Source:HGNC Symbol;Acc:31823]	
KRAS	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	√
KRBA1	KRAB-A domain containing 1 [Source:HGNC Symbol;Acc:22228]	
KRBA2	KRAB-A domain containing 2 [Source:HGNC Symbol;Acc:26989]	
KRBOX1	KRAB box domain containing 1 [Source:HGNC Symbol;Acc:38708]	
KREMEN1	Kringle containing transmembrane protein 1 [Source:HGNC Symbol;Acc:17550]	
KRIT1	KRIT1, ankyrin repeat containing [Source:HGNC Symbol;Acc:1573]	
KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:5176]	
KRT12	Keratin 12 [Source:HGNC Symbol;Acc:6414]	
KRT13	Keratin 13 [Source:HGNC Symbol;Acc:6415]	
KRT15	Keratin 15 [Source:HGNC Symbol;Acc:6421]	
KRT16	Keratin 16 [Source:HGNC Symbol;Acc:6423]	
KRT17	Keratin 17 [Source:HGNC Symbol;Acc:6427]	
KRT20	Keratin 20 [Source:HGNC Symbol;Acc:20412]	
KRT222	Keratin 222 [Source:HGNC Symbol;Acc:28695]	
KRT24	Keratin 24 [Source:HGNC Symbol;Acc:18527]	
KRT26	Keratin 26 [Source:HGNC Symbol;Acc:30840]	
KRT33A	Keratin 33A [Source:HGNC Symbol;Acc:6450]	
KRT33B	Keratin 33B [Source:HGNC Symbol;Acc:6451]	
KRT35	Keratin 35 [Source:HGNC Symbol;Acc:6453]	
KRT37	Keratin 37 [Source:HGNC Symbol;Acc:6455]	
KRT40	Keratin 40 [Source:HGNC Symbol;Acc:26707]	
KRT6B	Keratin 6B [Source:HGNC Symbol;Acc:6444]	
KRT72	Keratin 72 [Source:HGNC Symbol;Acc:28932]	
KRT74	Keratin 74 [Source:HGNC Symbol;Acc:28929]	
KRT80	Keratin 80 [Source:HGNC Symbol;Acc:27056]	
KRT83	Keratin 83 [Source:HGNC Symbol;Acc:6460]	
KRT84	Keratin 84 [Source:HGNC Symbol;Acc:6461]	
KRT85	Keratin 85 [Source:HGNC Symbol;Acc:6462]	
KRT8P11	Keratin 8 pseudogene 11 [Source:HGNC Symbol;Acc:31058]	

KRT9	Keratin 9 [Source:HGNC Symbol;Acc:6447]	
KRTAP10-10	Keratin associated protein 10-10 [Source:HGNC Symbol;Acc:22972]	
KRTAP10-6	Keratin associated protein 10-6 [Source:HGNC Symbol;Acc:20523]	
KRTAP26-1	Keratin associated protein 26-1 [Source:HGNC Symbol;Acc:33760]	
KRTAP3-1	Keratin associated protein 3-1 [Source:HGNC Symbol;Acc:16778]	
KRTAP5-2	Keratin associated protein 5-2 [Source:HGNC Symbol;Acc:23597]	
KRTCAP2	Keratinocyte associated protein 2 [Source:HGNC Symbol;Acc:28942]	
KSR1	Kinase suppressor of ras 1 [Source:HGNC Symbol;Acc:6465]	
KSR2	Kinase suppressor of ras 2 [Source:HGNC Symbol;Acc:18610]	
L2HGDH	L-2-hydroxyglutarate dehydrogenase [Source:HGNC Symbol;Acc:20499]	
L3MBTL1	L(3)mbt-like 1 (Drosophila) [Source:HGNC Symbol;Acc:15905]	
LACE1	Lactation elevated 1 [Source:HGNC Symbol;Acc:16411]	
LACTB	Lactamase, beta [Source:HGNC Symbol;Acc:16468]	
LAMA1	Laminin, alpha 1 [Source:HGNC Symbol;Acc:6481]	
LAMA2	Laminin, alpha 2 [Source:HGNC Symbol;Acc:6482]	
LAMA3	Laminin, alpha 3 [Source:HGNC Symbol;Acc:6483]	
LAMA4	Laminin, alpha 4 [Source:HGNC Symbol;Acc:6484]	
LAMA5	Laminin, alpha 5 [Source:HGNC Symbol;Acc:6485]	
LAMB2	Laminin, beta 2 (laminin S) [Source:HGNC Symbol;Acc:6487]	
LAMB3	Laminin, beta 3 [Source:HGNC Symbol;Acc:6490]	
LAMC1	Laminin, gamma 1 (formerly LAMB2) [Source:HGNC Symbol;Acc:6492]	
LAMC2	Laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]	
LAMP2	Lysosomal-associated membrane protein 2 [Source:HGNC Symbol;Acc:6501]	
LAMTOR3	Late endosomal/lysosomal adaptor, MAPK and MTOR activator 3 [Source:HGNC Symbol;Acc:15606]	
LANCL1	Lanc lantibiotic synthetase component C-like 1 (bacterial) [Source:HGNC Symbol;Acc:6508]	
LAP3	Leucine aminopeptidase 3 [Source:HGNC Symbol;Acc:18449]	
LARGE	Like-glycosyltransferase [Source:HGNC Symbol;Acc:6511]	
LARP6	La ribonucleoprotein domain family, member 6 [Source:HGNC Symbol;Acc:24012]	
LARS2	Leucyl-trna synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:17095]	

LAS1L	LAS1-like (S. Cerevisiae) [Source:HGNC Symbol;Acc:25726]	
LASP1	LIM and SH3 protein 1	√
LASS1	LAG1 homolog, ceramide synthase 1 [Source:HGNC Symbol;Acc:14253]	
LASS3	LAG1 homolog, ceramide synthase 3 [Source:HGNC Symbol;Acc:23752]	
LAT2	Linker for activation of T cells family, member 2 [Source:HGNC Symbol;Acc:12749]	
LATS1	LATS, large tumor suppressor, homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:6514]	
LATS2	LATS, large tumor suppressor, homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:6515]	
LAX1	Lymphocyte transmembrane adaptor 1 [Source:HGNC Symbol;Acc:26005]	
LCE2A	Late cornified envelope 2A [Source:HGNC Symbol;Acc:29469]	
LCE2B	Late cornified envelope 2B [Source:HGNC Symbol;Acc:16610]	
LCN10	Lipocalin 10 [Source:HGNC Symbol;Acc:20892]	
LCN2	Lipocalin 2 [Source:HGNC Symbol;Acc:6526]	
LCOR	Ligand dependent nuclear receptor corepressor [Source:HGNC Symbol;Acc:29503]	
LCORL	Ligand dependent nuclear receptor corepressor-like [Source:HGNC Symbol;Acc:30776]	
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)	√
LDHC	Lactate dehydrogenase C [Source:HGNC Symbol;Acc:6544]	
LDLR	Low density lipoprotein receptor [Source:HGNC Symbol;Acc:6547]	
LDLRAD2	Low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:32071]	
LDLRAD3	Low density lipoprotein receptor class A domain containing 3 [Source:HGNC Symbol;Acc:27046]	
LDLRAP1	Low density lipoprotein receptor adaptor protein 1 [Source:HGNC Symbol;Acc:18640]	
LEAP2	Liver expressed antimicrobial peptide 2 [Source:HGNC Symbol;Acc:29571]	
LEMD1	LEM domain containing 1 [Source:HGNC Symbol;Acc:18725]	
LEP	Leptin [Source:HGNC Symbol;Acc:6553]	
LEPR	Leptin receptor [Source:HGNC Symbol;Acc:6554]	

LEPRE1	Leucine proline-enriched proteoglycan (leprecan) 1 [Source:HGNC Symbol;Acc:19316]	
LEPREL1	Leprecan-like 1 [Source:HGNC Symbol;Acc:19317]	
LEPREL2	Leprecan-like 2 [Source:HGNC Symbol;Acc:19318]	
LETMD1	LETM1 domain containing 1 [Source:HGNC Symbol;Acc:24241]	
LGALS12	Lectin, galactoside-binding, soluble, 12 [Source:HGNC Symbol;Acc:15788]	
LGALS3BP	Lectin, galactoside-binding, soluble, 3 binding protein [Source:HGNC Symbol;Acc:6564]	
LGALS4	Lectin, galactoside-binding, soluble, 4 [Source:HGNC Symbol;Acc:6565]	
LGALS9	Lectin, galactoside-binding, soluble, 9 [Source:HGNC Symbol;Acc:6570]	
LGALS9C	Lectin, galactoside-binding, soluble, 9C [Source:HGNC Symbol;Acc:33874]	
LGI2	Leucine-rich repeat LGI family, member 2 [Source:HGNC Symbol;Acc:18710]	
LGMN	Legumain [Source:HGNC Symbol;Acc:9472]	
LGR4	Leucine-rich repeat containing G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:13299]	
LHCGR	Luteinizing hormone/choriogonadotropin receptor [Source:HGNC Symbol;Acc:6585]	
LHFPL2	Lipoma HMGIC fusion partner-like 2 [Source:HGNC Symbol;Acc:6588]	
LHFPL3	Lipoma HMGIC fusion partner-like 3 [Source:HGNC Symbol;Acc:6589]	
LHX4	LIM homeobox 4 [Source:HGNC Symbol;Acc:21734]	
LHX6	LIM homeobox 6 [Source:HGNC Symbol;Acc:21735]	
LHX8	LIM homeobox 8 [Source:HGNC Symbol;Acc:28838]	
LIFR	Leukemia inhibitory factor receptor alpha	√
LIMD1	LIM domains containing 1 [Source:HGNC Symbol;Acc:6612]	
LIME1	Lck interacting transmembrane adaptor 1 [Source:HGNC Symbol;Acc:26016]	
LIMS1	LIM and senescent cell antigen-like domains 1 [Source:HGNC Symbol;Acc:6616]	
LIN28B	Lin-28 homolog B (C. Elegans) [Source:HGNC Symbol;Acc:32207]	
LIN37	Lin-37 homolog (C. Elegans) [Source:HGNC Symbol;Acc:33234]	
LIN54	Lin-54 homolog (C. Elegans) [Source:HGNC Symbol;Acc:25397]	
LIN7A	Lin-7 homolog A (C. Elegans) [Source:HGNC Symbol;Acc:17787]	

LIPA	Lipase A, lysosomal acid, cholesterol esterase [Source:HGNC Symbol;Acc:6617]	
LIPF	Lipase, gastric [Source:HGNC Symbol;Acc:6622]	
LITAF	Lipopolysaccharide-induced TNF factor [Source:HGNC Symbol;Acc:16841]	
LIX1L	Lix1 homolog (mouse)-like [Source:HGNC Symbol;Acc:28715]	
LMAN1	Lectin, mannose-binding, 1 [Source:HGNC Symbol;Acc:6631]	
LMAN2L	Lectin, mannose-binding 2-like [Source:HGNC Symbol;Acc:19263]	
LMBRD1	LMBR1 domain containing 1 [Source:HGNC Symbol;Acc:23038]	
LMCD1	LIM and cysteine-rich domains 1 [Source:HGNC Symbol;Acc:6633]	
LMLN	Leishmanolysin-like (metallopeptidase M8 family) [Source:HGNC Symbol;Acc:15991]	
LMO3	LIM domain only 3 (rhombotin-like 2) [Source:HGNC Symbol;Acc:6643]	
LMO4	LIM domain only 4 [Source:HGNC Symbol;Acc:6644]	
LMO7	LIM domain 7 [Source:HGNC Symbol;Acc:6646]	
LMOD1	Leiomodin 1 (smooth muscle) [Source:HGNC Symbol;Acc:6647]	
LMOD3	Leiomodin 3 (fetal) [Source:HGNC Symbol;Acc:6649]	
LMTK2	Lemur tyrosine kinase 2 [Source:HGNC Symbol;Acc:17880]	
LMX1A	LIM homeobox transcription factor 1, alpha [Source:HGNC Symbol;Acc:6653]	
LMX1B	LIM homeobox transcription factor 1, beta [Source:HGNC Symbol;Acc:6654]	
LOH12CR2	Loss of heterozygosity, 12, chromosomal region 2 [Source:HGNC Symbol;Acc:26524]	
LONP1	Lon peptidase 1, mitochondrial [Source:HGNC Symbol;Acc:9479]	
LONRF1	LON peptidase N-terminal domain and ring finger 1 [Source:HGNC Symbol;Acc:26302]	
LONRF2	LON peptidase N-terminal domain and ring finger 2 [Source:HGNC Symbol;Acc:24788]	
LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:21152]	
LOX	Lysyl oxidase [Source:HGNC Symbol;Acc:6664]	
LOXL3	Lysyl oxidase-like 3 [Source:HGNC Symbol;Acc:13869]	

LOXL4	Lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]	
LPA	Lipoprotein, Lp(a) [Source:HGNC Symbol;Acc:6667]	
LPAR2	Lysophosphatidic acid receptor 2 [Source:HGNC Symbol;Acc:3168]	
LPCAT1	Lysophosphatidylcholine acyltransferase 1 [Source:HGNC Symbol;Acc:25718]	
LPCAT4	Lysophosphatidylcholine acyltransferase 4 [Source:HGNC Symbol;Acc:30059]	
LPGAT1	Lysophosphatidylglycerol acyltransferase 1 [Source:HGNC Symbol;Acc:28985]	
LPHN3	Latrophilin 3 [Source:HGNC Symbol;Acc:20974]	
LPIN1	Lipin 1 [Source:HGNC Symbol;Acc:13345]	
LPIN2	Lipin 2 [Source:HGNC Symbol;Acc:14450]	
LPIN3	Lipin 3 [Source:HGNC Symbol;Acc:14451]	
LPL	Lipoprotein lipase [Source:HGNC Symbol;Acc:6677]	
LPO	Lactoperoxidase [Source:HGNC Symbol;Acc:6678]	
LPP	LIM domain containing preferred translocation partner in lipoma	√
LPXN	Leupaxin [Source:HGNC Symbol;Acc:14061]	
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing [Source:HGNC Symbol;Acc:1742]	
LRDD	Leucine-rich repeats and death domain containing [Source:HGNC Symbol;Acc:16491]	
LRFN1	Leucine rich repeat and fibronectin type III domain containing 1 [Source:HGNC Symbol;Acc:29290]	
LRFN2	Leucine rich repeat and fibronectin type III domain containing 2 [Source:HGNC Symbol;Acc:21226]	
LRGUK	Leucine-rich repeats and guanylate kinase domain containing [Source:HGNC Symbol;Acc:21964]	
LRIG1	Leucine-rich repeats and immunoglobulin-like domains 1 [Source:HGNC Symbol;Acc:17360]	
LRIT3	Leucine-rich repeat, immunoglobulin-like and transmembrane domains 3 [Source:HGNC Symbol;Acc:24783]	
LRP1	Low density lipoprotein receptor-related protein 1 [Source:HGNC Symbol;Acc:6692]	

LRP10	Low density lipoprotein receptor-related protein 10 [Source:HGNC Symbol;Acc:14553]	
LRP11	Low density lipoprotein receptor-related protein 11 [Source:HGNC Symbol;Acc:16936]	
LRP12	Low density lipoprotein receptor-related protein 12 [Source:HGNC Symbol;Acc:31708]	
LRP1B	Low density lipoprotein receptor-related protein 1B [Source:HGNC Symbol;Acc:6693]	
LRP2	Low density lipoprotein receptor-related protein 2 [Source:HGNC Symbol;Acc:6694]	
LRP2BP	LRP2 binding protein [Source:HGNC Symbol;Acc:25434]	
LRP4	Low density lipoprotein receptor-related protein 4 [Source:HGNC Symbol;Acc:6696]	
LRP6	Low density lipoprotein receptor-related protein 6 [Source:HGNC Symbol;Acc:6698]	
LRP8	Low density lipoprotein receptor-related protein 8, apolipoprotein e receptor [Source:HGNC Symbol;Acc:6700]	
LRPAP1	Low density lipoprotein receptor-related protein associated protein 1 [Source:HGNC Symbol;Acc:6701]	
LRR1	Leucine rich repeat protein 1 [Source:HGNC Symbol;Acc:19742]	
LRRC1	Leucine rich repeat containing 1 [Source:HGNC Symbol;Acc:14307]	
LRRC10	Leucine rich repeat containing 10 [Source:HGNC Symbol;Acc:20264]	
LRRC15	Leucine rich repeat containing 15 [Source:HGNC Symbol;Acc:20818]	
LRRC16A	Leucine rich repeat containing 16A [Source:HGNC Symbol;Acc:21581]	
LRRC19	Leucine rich repeat containing 19 [Source:HGNC Symbol;Acc:23379]	
LRRC25	Leucine rich repeat containing 25 [Source:HGNC Symbol;Acc:29806]	
LRRC27	Leucine rich repeat containing 27 [Source:HGNC Symbol;Acc:29346]	
LRRC28	Leucine rich repeat containing 28 [Source:HGNC Symbol;Acc:28355]	
LRRC29	Leucine rich repeat containing 29 [Source:HGNC Symbol;Acc:13605]	
LRRC31	Leucine rich repeat containing 31 [Source:HGNC Symbol;Acc:26261]	
LRRC36	Leucine rich repeat containing 36 [Source:HGNC Symbol;Acc:25615]	
LRRC37A	Leucine rich repeat containing 37A [Source:HGNC Symbol;Acc:29069]	
LRRC38	Leucine rich repeat containing 38 [Source:HGNC Symbol;Acc:27005]	

LRRC49	Leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:25965]	
LRRC4C	Leucine rich repeat containing 4C [Source:HGNC Symbol;Acc:29317]	
LRRC58	Leucine rich repeat containing 58 [Source:HGNC Symbol;Acc:26968]	
LRRC59	Leucine rich repeat containing 59 [Source:HGNC Symbol;Acc:28817]	
LRRC66	Leucine rich repeat containing 66 [Source:HGNC Symbol;Acc:34299]	
LRRC7	Leucine rich repeat containing 7 [Source:HGNC Symbol;Acc:18531]	
LRRC70	Leucine rich repeat containing 70 [Source:HGNC Symbol;Acc:35155]	
LRRC8A	Leucine rich repeat containing 8 family, member A [Source:HGNC Symbol;Acc:19027]	
LRRC8D	Leucine rich repeat containing 8 family, member D [Source:HGNC Symbol;Acc:16992]	
LRRC8E	Leucine rich repeat containing 8 family, member E [Source:HGNC Symbol;Acc:26272]	
LRRFIP1	Leucine rich repeat (in FLII) interacting protein 1 [Source:HGNC Symbol;Acc:6702]	
LRRFIP2	Leucine rich repeat (in FLII) interacting protein 2 [Source:HGNC Symbol;Acc:6703]	
LRRIQ3	Leucine-rich repeats and IQ motif containing 3 [Source:HGNC Symbol;Acc:28318]	
LRRK2	Leucine-rich repeat kinase 2 [Source:HGNC Symbol;Acc:18618]	
LRRN1	Leucine rich repeat neuronal 1 [Source:HGNC Symbol;Acc:20980]	
LRRN2	Leucine rich repeat neuronal 2 [Source:HGNC Symbol;Acc:16914]	
LRRN3	Leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:17200]	
LRTOMT	Leucine rich transmembrane and 0-methyltransferase domain containing [Source:HGNC Symbol;Acc:25033]	
LRWD1	Leucine-rich repeats and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:21769]	
LSAMP	Limbic system-associated membrane protein [Source:HGNC Symbol;Acc:6705]	
LSM11	LSM11, U7 small nuclear RNA associated [Source:HGNC Symbol;Acc:30860]	
LSM6	LSM6 homolog, U6 small nuclear RNA associated (S. Cerevisiae) [Source:HGNC Symbol;Acc:17017]	

LSS	Lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase) [Source:HGNC Symbol;Acc:6708]	
LTB4R	Leukotriene B4 receptor [Source:HGNC Symbol;Acc:6713]	
LTBP1	Latent transforming growth factor beta binding protein 1 [Source:HGNC Symbol;Acc:6714]	
LTBP2	Latent transforming growth factor beta binding protein 2 [Source:HGNC Symbol;Acc:6715]	
LTBP3	Latent transforming growth factor beta binding protein 3 [Source:HGNC Symbol;Acc:6716]	
LTBP4	Latent transforming growth factor beta binding protein 4 [Source:HGNC Symbol;Acc:6717]	
LTF	Lactotransferrin [Source:HGNC Symbol;Acc:6720]	
LTK	Leukocyte receptor tyrosine kinase [Source:HGNC Symbol;Acc:6721]	
LTV1	LTV1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:21173]	
LUZP1	Leucine zipper protein 1 [Source:HGNC Symbol;Acc:14985]	
LY6G6E	Lymphocyte antigen 6 complex, locus G6E [Source:HGNC Symbol;Acc:13934]	
LY75	Lymphocyte antigen 75 [Source:HGNC Symbol;Acc:6729]	
LYG1	Lysozyme G-like 1 [Source:HGNC Symbol;Acc:27014]	
LYG2	Lysozyme G-like 2 [Source:HGNC Symbol;Acc:29615]	
LYN	V-yes-1 Yamaguchi sarcoma viral related oncogene homolog [Source:HGNC Symbol;Acc:6735]	
LYNX1	Ly6/neurotoxin 1 [Source:HGNC Symbol;Acc:29604]	
LYPLA2	Lysophospholipase II [Source:HGNC Symbol;Acc:6738]	
LYRM2	LYR motif containing 2 [Source:HGNC Symbol;Acc:25229]	
LYRM4	LYR motif containing 4 [Source:HGNC Symbol;Acc:21365]	
LYSMD1	Lysm, putative peptidoglycan-binding, domain containing 1 [Source:HGNC Symbol;Acc:32070]	
LYSMD3	Lysm, putative peptidoglycan-binding, domain containing 3 [Source:HGNC Symbol;Acc:26969]	
LYST	Lysosomal trafficking regulator [Source:HGNC Symbol;Acc:1968]	
LYVE1	Lymphatic vessel endothelial hyaluronan receptor 1 [Source:HGNC Symbol;Acc:14687]	

LYZL1	Lysozyme-like 1 [Source:HGNC Symbol;Acc:30502]	
LYZL2	Lysozyme-like 2 [Source:HGNC Symbol;Acc:29613]	
LZTS1	Leucine zipper, putative tumor suppressor 1 [Source:HGNC Symbol;Acc:13861]	
LZTS2	Leucine zipper, putative tumor suppressor 2 [Source:HGNC Symbol;Acc:29381]	
MAB21L1	Mab-21-like 1 (C. Elegans) [Source:HGNC Symbol;Acc:6757]	
MACF1	Microtubule-actin crosslinking factor 1 [Source:HGNC Symbol;Acc:13664]	
MADD	MAP-kinase activating death domain [Source:HGNC Symbol;Acc:6766]	
MAF	V-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	√
MAFG	V-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian) [Source:HGNC Symbol;Acc:6781]	
MAGEA1	Melanoma antigen family A, 1 (directs expression of antigen MZ2-E) [Source:HGNC Symbol;Acc:6796]	
MAGEA10	Melanoma antigen family A, 10 [Source:HGNC Symbol;Acc:6797]	
MAGEA4	Melanoma antigen family A, 4 [Source:HGNC Symbol;Acc:6802]	
MAGEA9	Melanoma antigen family A, 9 [Source:HGNC Symbol;Acc:6807]	
MAGEA9B	Melanoma antigen family A, 9B [Source:HGNC Symbol;Acc:31909]	
MAGEB16	Melanoma antigen family B, 16 [Source:HGNC Symbol;Acc:21188]	
MAGEB2	Melanoma antigen family B, 2 [Source:HGNC Symbol;Acc:6809]	
MAGEB3	Melanoma antigen family B, 3 [Source:HGNC Symbol;Acc:6810]	
MAGEB6	Melanoma antigen family B, 6 [Source:HGNC Symbol;Acc:23796]	
MAGEC1	Melanoma antigen family C, 1 [Source:HGNC Symbol;Acc:6812]	
MAGEC3	Melanoma antigen family C, 3 [Source:HGNC Symbol;Acc:23798]	
MAGEE1	Melanoma antigen family E, 1 [Source:HGNC Symbol;Acc:24934]	
MAGEE2	Melanoma antigen family E, 2 [Source:HGNC Symbol;Acc:24935]	
MAGEL2	MAGE-like 2 [Source:HGNC Symbol;Acc:6814]	
MAGI3	Membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:HGNC Symbol;Acc:29647]	
MAK	Male germ cell-associated kinase [Source:HGNC Symbol;Acc:6816]	
MAK16	MAK16 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:13703]	
MALT1	Mucosa associated lymphoid tissue lymphoma translocation gene 1	√
MAMDC2	MAM domain containing 2 [Source:HGNC Symbol;Acc:23673]	

MAML1	Mastermind-like 1 (Drosophila) [Source:HGNC Symbol;Acc:13632]	
MAML2	Mastermind-like 2 (Drosophila)	√
MAN1A1	Mannosidase, alpha, class 1A, member 1 [Source:HGNC Symbol;Acc:6821]	
MAN1A2	Mannosidase, alpha, class 1A, member 2 [Source:HGNC Symbol;Acc:6822]	
MAN1B1	Mannosidase, alpha, class 1B, member 1 [Source:HGNC Symbol;Acc:6823]	
MAN1C1	Mannosidase, alpha, class 1C, member 1 [Source:HGNC Symbol;Acc:19080]	
MAN2A1	Mannosidase, alpha, class 2A, member 1 [Source:HGNC Symbol;Acc:6824]	
MAN2B2	Mannosidase, alpha, class 2B, member 2 [Source:HGNC Symbol;Acc:29623]	
MAN2C1	Mannosidase, alpha, class 2C, member 1 [Source:HGNC Symbol;Acc:6827]	
MANBA	Mannosidase, beta A, lysosomal [Source:HGNC Symbol;Acc:6831]	
MAOA	Monoamine oxidase A [Source:HGNC Symbol;Acc:6833]	
MAP1B	Microtubule-associated protein 1B [Source:HGNC Symbol;Acc:6836]	
MAP1S	Microtubule-associated protein 1S [Source:HGNC Symbol;Acc:15715]	
MAP2	Microtubule-associated protein 2 [Source:HGNC Symbol;Acc:6839]	
MAP2K1	Mitogen-activated protein kinase kinase 1	√
MAP2K3	Mitogen-activated protein kinase kinase 3 [Source:HGNC Symbol;Acc:6843]	
MAP2K5	Mitogen-activated protein kinase kinase 5 [Source:HGNC Symbol;Acc:6845]	
MAP3K1	Mitogen-activated protein kinase kinase kinase 1 [Source:HGNC Symbol;Acc:6848]	
MAP3K10	Mitogen-activated protein kinase kinase kinase 10 [Source:HGNC Symbol;Acc:6849]	
MAP3K12	Mitogen-activated protein kinase kinase kinase 12 [Source:HGNC Symbol;Acc:6851]	

MAP3K13	Mitogen-activated protein kinase kinase kinase 13 [Source:HGNC Symbol;Acc:6852]	
MAP3K14	Mitogen-activated protein kinase kinase kinase 14 [Source:HGNC Symbol;Acc:6853]	
MAP3K2	Mitogen-activated protein kinase kinase kinase 2 [Source:HGNC Symbol;Acc:6854]	
MAP3K3	Mitogen-activated protein kinase kinase kinase 3 [Source:HGNC Symbol;Acc:6855]	
MAP3K4	Mitogen-activated protein kinase kinase kinase 4 [Source:HGNC Symbol;Acc:6856]	
MAP3K5	Mitogen-activated protein kinase kinase kinase 5 [Source:HGNC Symbol;Acc:6857]	
MAP3K6	Mitogen-activated protein kinase kinase kinase 6 [Source:HGNC Symbol;Acc:6858]	
MAP3K9	Mitogen-activated protein kinase kinase kinase 9 [Source:HGNC Symbol;Acc:6861]	
MAP4K1	Mitogen-activated protein kinase kinase kinase kinase 1 [Source:HGNC Symbol;Acc:6863]	
MAP4K2	Mitogen-activated protein kinase kinase kinase kinase 2 [Source:HGNC Symbol;Acc:6864]	
MAP4K3	Mitogen-activated protein kinase kinase kinase kinase 3 [Source:HGNC Symbol;Acc:6865]	
MAP4K5	Mitogen-activated protein kinase kinase kinase kinase 5 [Source:HGNC Symbol;Acc:6867]	
MAP7	Microtubule-associated protein 7 [Source:HGNC Symbol;Acc:6869]	
MAP9	Microtubule-associated protein 9 [Source:HGNC Symbol;Acc:26118]	
MAPK1	Mitogen-activated protein kinase 1 [Source:HGNC Symbol;Acc:6871]	
MAPK10	Mitogen-activated protein kinase 10 [Source:HGNC Symbol;Acc:6872]	
MAPK11	Mitogen-activated protein kinase 11 [Source:HGNC Symbol;Acc:6873]	
MAPK12	Mitogen-activated protein kinase 12 [Source:HGNC Symbol;Acc:6874]	
MAPK13	Mitogen-activated protein kinase 13 [Source:HGNC Symbol;Acc:6875]	
MAPK15	Mitogen-activated protein kinase 15 [Source:HGNC Symbol;Acc:24667]	
MAPK6	Mitogen-activated protein kinase 6 [Source:HGNC Symbol;Acc:6879]	

MAPK8	Mitogen-activated protein kinase 8 [Source:HGNC Symbol;Acc:6881]	
MAPK8IP1	Mitogen-activated protein kinase 8 interacting protein 1 [Source:HGNC Symbol;Acc:6882]	
MAPK8IP2	Mitogen-activated protein kinase 8 interacting protein 2 [Source:HGNC Symbol;Acc:6883]	
MAPK8IP3	Mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:6884]	
MAPKAPK5	Mitogen-activated protein kinase-activated protein kinase 5 [Source:HGNC Symbol;Acc:6889]	
MAPKBP1	Mitogen-activated protein kinase binding protein 1 [Source:HGNC Symbol;Acc:29536]	
MAPRE2	Microtubule-associated protein, RP/EB family, member 2 [Source:HGNC Symbol;Acc:6891]	
MARCH10	Septin 7 [Source:HGNC Symbol;Acc:1717]	
MARCH11	Septin 7 [Source:HGNC Symbol;Acc:1717]	
MARCH12	Septin 7 [Source:HGNC Symbol;Acc:1717]	
MARCH13	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH14	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH15	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH16	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH17	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH18	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH19	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH20	Septin 10 [Source:HGNC Symbol;Acc:14349]	
MARCH21	Septin 11 [Source:HGNC Symbol;Acc:25589]	
MARCH22	Septin 14 [Source:HGNC Symbol;Acc:33280]	
MARCH3	Membrane-associated ring finger (C3HC4) 3 [Source:HGNC Symbol;Acc:28728]	
MARCH4	Membrane-associated ring finger (C3HC4) 8 [Source:HGNC Symbol;Acc:23356]	
MARCH5	Membrane-associated ring finger (C3HC4) 9 [Source:HGNC Symbol;Acc:25139]	

MARCH6	Membrane-associated ring finger (C3HC4) 11 [Source:HGNC Symbol;Acc:33609]	
MARCH7	Septin 3 [Source:HGNC Symbol;Acc:10750]	
MARCH8	Septin 3 [Source:HGNC Symbol;Acc:10750]	
MARCH9	Septin 5 [Source:HGNC Symbol;Acc:9164]	
MARCKS	Myristoylated alanine-rich protein kinase C substrate [Source:HGNC Symbol;Acc:6759]	
MARCO	Macrophage receptor with collagenous structure [Source:HGNC Symbol;Acc:6895]	
MARK1	MAP/microtubule affinity-regulating kinase 1 [Source:HGNC Symbol;Acc:6896]	
MARS	Methionyl-trna synthetase [Source:HGNC Symbol;Acc:6898]	
MARVELD2	MARVEL domain containing 2 [Source:HGNC Symbol;Acc:26401]	
MAST1	Microtubule associated serine/threonine kinase 1 [Source:HGNC Symbol;Acc:19034]	
MAST3	Microtubule associated serine/threonine kinase 3 [Source:HGNC Symbol;Acc:19036]	
MAST4	Microtubule associated serine/threonine kinase family member 4 [Source:HGNC Symbol;Acc:19037]	
MASTL	Microtubule associated serine/threonine kinase-like [Source:HGNC Symbol;Acc:19042]	
MAT1A	Methionine adenosyltransferase I, alpha [Source:HGNC Symbol;Acc:6903]	
MAT2A	Methionine adenosyltransferase II, alpha [Source:HGNC Symbol;Acc:6904]	
MATN1	Matrilin 1, cartilage matrix protein [Source:HGNC Symbol;Acc:6907]	
MATN2	Matrilin 2 [Source:HGNC Symbol;Acc:6908]	
MATN3	Matrilin 3 [Source:HGNC Symbol;Acc:6909]	
MAU2	MAU2 chromatid cohesion factor homolog (C. Elegans) [Source:HGNC Symbol;Acc:29140]	
MAX	MYC associated factor X	√
MB	Myoglobin [Source:HGNC Symbol;Acc:6915]	
MBD1	Methyl-cpg binding domain protein 1 [Source:HGNC Symbol;Acc:6916]	
MBD3	Methyl-cpg binding domain protein 3 [Source:HGNC Symbol;Acc:6918]	
MBNL1	Muscleblind-like (Drosophila) [Source:HGNC Symbol;Acc:6923]	

MBNL3	Muscleblind-like 3 (Drosophila) [Source:HGNC Symbol;Acc:20564]	
MBP	Myelin basic protein [Source:HGNC Symbol;Acc:6925]	
MBTD1	Mbt domain containing 1 [Source:HGNC Symbol;Acc:19866]	
MBTPS1	Membrane-bound transcription factor peptidase, site 1 [Source:HGNC Symbol;Acc:15456]	
MC2R	Melanocortin 2 receptor (adrenocorticotropic hormone) [Source:HGNC Symbol;Acc:6930]	
MCAM	Melanoma cell adhesion molecule [Source:HGNC Symbol;Acc:6934]	
MCART1	Mitochondrial carrier triple repeat 1 [Source:HGNC Symbol;Acc:23323]	
MCC	Mutated in colorectal cancers [Source:HGNC Symbol;Acc:6935]	
MCCC1	Methylcrotonoyl-coa carboxylase 1 (alpha) [Source:HGNC Symbol;Acc:6936]	
MCF2L2	MCF.2 cell line derived transforming sequence-like 2 [Source:HGNC Symbol;Acc:30319]	
MCFD2	Multiple coagulation factor deficiency 2 [Source:HGNC Symbol;Acc:18451]	
MCHR1	Melanin-concentrating hormone receptor 1 [Source:HGNC Symbol;Acc:4479]	
MCHR2	Melanin-concentrating hormone receptor 2 [Source:HGNC Symbol;Acc:20867]	
MCL1	Myeloid cell leukemia sequence 1 (BCL2-related) [Source:HGNC Symbol;Acc:6943]	
MCM10	Minichromosome maintenance complex component 10 [Source:HGNC Symbol;Acc:18043]	
MCM3AP	Minichromosome maintenance complex component 3 associated protein [Source:HGNC Symbol;Acc:6946]	
MCM4	Minichromosome maintenance complex component 4 [Source:HGNC Symbol;Acc:6947]	
MCM6	Minichromosome maintenance complex component 6 [Source:HGNC Symbol;Acc:6949]	
MCM7	Minichromosome maintenance complex component 7 [Source:HGNC Symbol;Acc:6950]	
MCM8	Minichromosome maintenance complex component 8 [Source:HGNC Symbol;Acc:16147]	

MCM9	Minichromosome maintenance complex component 9 [Source:HGNC Symbol;Acc:21484]	
MCMBP	Minichromosome maintenance complex binding protein [Source:HGNC Symbol;Acc:25782]	
MCOLN1	Mucolipin 1 [Source:HGNC Symbol;Acc:13356]	
MCPH1	Microcephalin 1 [Source:HGNC Symbol;Acc:6954]	
MDFIC	Myod family inhibitor domain containing [Source:HGNC Symbol;Acc:28870]	
MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1 [Source:HGNC Symbol;Acc:19267]	
MDH2	Malate dehydrogenase 2, NAD (mitochondrial) [Source:HGNC Symbol;Acc:6971]	
MDM2	Mdm2 p53 binding protein homolog (mouse)	√
MDM4	Mdm4 p53 binding protein homolog (mouse)	√
MDN1	MDN1, midasin homolog (yeast) [Source:HGNC Symbol;Acc:18302]	
ME2	Malic enzyme 2, NAD(+)-dependent, mitochondrial [Source:HGNC Symbol;Acc:6984]	
ME3	Malic enzyme 3, NADP(+)-dependent, mitochondrial [Source:HGNC Symbol;Acc:6985]	
MECOM	MDS1 and EVI1 complex locus [Source:HGNC Symbol;Acc:3498]	
MECP2	Methyl cpg binding protein 2 (Rett syndrome) [Source:HGNC Symbol;Acc:6990]	
MECR	Mitochondrial trans-2-enoyl-coa reductase [Source:HGNC Symbol;Acc:19691]	
MED1	Mediator complex subunit 1 [Source:HGNC Symbol;Acc:9234]	
MED12	Mediator complex subunit 12	√
MED12L	Mediator complex subunit 12-like [Source:HGNC Symbol;Acc:16050]	
MED13	Mediator complex subunit 13 [Source:HGNC Symbol;Acc:22474]	
MED13L	Mediator complex subunit 13-like [Source:HGNC Symbol;Acc:22962]	
MED14	Mediator complex subunit 14 [Source:HGNC Symbol;Acc:2370]	
MED20	Mediator complex subunit 20 [Source:HGNC Symbol;Acc:16840]	
MED23	Mediator complex subunit 23 [Source:HGNC Symbol;Acc:2372]	
MED28	Mediator complex subunit 28 [Source:HGNC Symbol;Acc:24628]	

MED29	Mediator complex subunit 29 [Source:HGNC Symbol;Acc:23074]	
MEF2C	Myocyte enhancer factor 2C [Source:HGNC Symbol;Acc:6996]	
MEF2D	Myocyte enhancer factor 2D [Source:HGNC Symbol;Acc:6997]	
MEGF10	Multiple EGF-like-domains 10 [Source:HGNC Symbol;Acc:29634]	
MEGF6	Multiple EGF-like-domains 6 [Source:HGNC Symbol;Acc:3232]	
MEGF8	Multiple EGF-like-domains 8 [Source:HGNC Symbol;Acc:3233]	
MEGF9	Multiple EGF-like-domains 9 [Source:HGNC Symbol;Acc:3234]	
MEI1	Meiosis inhibitor 1 [Source:HGNC Symbol;Acc:28613]	
MEMO1	Mediator of cell motility 1 [Source:HGNC Symbol;Acc:14014]	
MERTK	C-mer proto-oncogene tyrosine kinase [Source:HGNC Symbol;Acc:7027]	
MESDC1	Mesoderm development candidate 1 [Source:HGNC Symbol;Acc:13519]	
MESDC2	Mesoderm development candidate 2 [Source:HGNC Symbol;Acc:13520]	
METAP1	Methionyl aminopeptidase 1 [Source:HGNC Symbol;Acc:15789]	
METRNL	Meteorin, glial cell differentiation regulator-like [Source:HGNC Symbol;Acc:27584]	
METT10D	Methyltransferase 10 domain containing [Source:HGNC Symbol;Acc:28484]	
METT5D1	Methyltransferase 5 domain containing 1 [Source:HGNC Symbol;Acc:26606]	
METTL12	Methyltransferase like 12 [Source:HGNC Symbol;Acc:33113]	
METTL4	Methyltransferase like 4 [Source:HGNC Symbol;Acc:24726]	
METTL7A	Methyltransferase like 7A [Source:HGNC Symbol;Acc:24550]	
METTL7B	Methyltransferase like 7B [Source:HGNC Symbol;Acc:28276]	
METTL8	Methyltransferase like 8 [Source:HGNC Symbol;Acc:25856]	
METTL9	Methyltransferase like 9 [Source:HGNC Symbol;Acc:24586]	
MFAP3	Microfibrillar-associated protein 3 [Source:HGNC Symbol;Acc:7034]	
MFAP3L	Microfibrillar-associated protein 3-like [Source:HGNC Symbol;Acc:29083]	
MFF	Mitochondrial fission factor [Source:HGNC Symbol;Acc:24858]	
MFGE8	Milk fat globule-EGF factor 8 protein [Source:HGNC Symbol;Acc:7036]	
MFHAS1	Malignant fibrous histiocytoma amplified sequence 1 [Source:HGNC Symbol;Acc:16982]	
MFI2	Antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5 [Source:HGNC Symbol;Acc:7037]	
MFN1	Mitofusin 1 [Source:HGNC Symbol;Acc:18262]	

MFN2	Mitofusin 2 [Source:HGNC Symbol;Acc:16877]	
MFSD3	Major facilitator superfamily domain containing 3 [Source:HGNC Symbol;Acc:25157]	
MFSD6	Major facilitator superfamily domain containing 6 [Source:HGNC Symbol;Acc:24711]	
MFSD6L	Major facilitator superfamily domain containing 6-like [Source:HGNC Symbol;Acc:26656]	
MGA	MAX gene associated [Source:HGNC Symbol;Acc:14010]	
MGAT1	Mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:7044]	
MGAT4A	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A [Source:HGNC Symbol;Acc:7047]	
MGAT4C	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme C (putative) [Source:HGNC Symbol;Acc:30871]	
MGAT5	Mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase [Source:HGNC Symbol;Acc:7049]	
MGAT5B	Mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B [Source:HGNC Symbol;Acc:24140]	
MGEA5	Meningioma expressed antigen 5 (hyaluronidase) [Source:HGNC Symbol;Acc:7056]	
MGLL	Monoglyceride lipase [Source:HGNC Symbol;Acc:17038]	
MICB	MHC class I polypeptide-related sequence B [Source:HGNC Symbol;Acc:7091]	
MID1	Midline 1 (Opitz/BBB syndrome) [Source:HGNC Symbol;Acc:7095]	
MID2	Midline 2 [Source:HGNC Symbol;Acc:7096]	
MIER3	Mesoderm induction early response 1, family member 3 [Source:HGNC Symbol;Acc:26678]	
MIF4GD	MIF4G domain containing [Source:HGNC Symbol;Acc:24030]	
MIS18A	MIS18 kinetochore protein homolog A (S. Pombe) [Source:HGNC Symbol;Acc:1286]	
MITF	Microphthalmia-associated transcription factor	√

MKI67	Antigen identified by monoclonal antibody Ki-67 [Source:HGNC Symbol;Acc:7107]	
MKL1	Megakaryoblastic leukemia (translocation) 1	√
MKL2	MKL/myocardin-like 2 [Source:HGNC Symbol;Acc:29819]	
MKLN1	Muskelin 1, intracellular mediator containing kelch motifs [Source:HGNC Symbol;Acc:7109]	
MKNK1	MAP kinase interacting serine/threonine kinase 1 [Source:HGNC Symbol;Acc:7110]	
MKRN3	Makorin ring finger protein 3 [Source:HGNC Symbol;Acc:7114]	
MLC1	Megalencephalic leukoencephalopathy with subcortical cysts 1 [Source:HGNC Symbol;Acc:17082]	
MLF1	Myeloid leukemia factor 1	√
MLF1IP	MLF1 interacting protein [Source:HGNC Symbol;Acc:21348]	
MLH1	Mutl homolog 1, colon cancer, nonpolyposis type 2 (*E. Coli*)	√
MLH3	Mutl homolog 3 (E. Coli) [Source:HGNC Symbol;Acc:7128]	
MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	√
MLL2	Myeloid/lymphoid or mixed-lineage leukemia 2 [Source:HGNC Symbol;Acc:7133]	
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3	√
MLL5	Myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)	
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	√
MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	√
MLLT4	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4	√
MLLT6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	√
MLPH	Melanophilin [Source:HGNC Symbol;Acc:29643]	
MLST8	MTOR associated protein, LST8 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24825]	
MLX	MAX-like protein X [Source:HGNC Symbol;Acc:11645]	

MLXIPL	MLX interacting protein-like [Source:HGNC Symbol;Acc:12744]	
MLYCD	Malonyl-coa decarboxylase [Source:HGNC Symbol;Acc:7150]	
MMAA	Methylmalonic aciduria (cobalamin deficiency) cbla type [Source:HGNC Symbol;Acc:18871]	
MMD2	Monocyte to macrophage differentiation-associated 2 [Source:HGNC Symbol;Acc:30133]	
MME	Membrane metallo-endopeptidase [Source:HGNC Symbol;Acc:7154]	
MMP11	Matrix metallopeptidase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:7157]	
MMP13	Matrix metallopeptidase 13 (collagenase 3) [Source:HGNC Symbol;Acc:7159]	
MMP14	Matrix metallopeptidase 14 (membrane-inserted) [Source:HGNC Symbol;Acc:7160]	
MMP16	Matrix metallopeptidase 16 (membrane-inserted) [Source:HGNC Symbol;Acc:7162]	
MMP17	Matrix metallopeptidase 17 (membrane-inserted) [Source:HGNC Symbol;Acc:7163]	
MMP24	Matrix metallopeptidase 24 (membrane-inserted) [Source:HGNC Symbol;Acc:7172]	
MMP27	Matrix metallopeptidase 27 [Source:HGNC Symbol;Acc:14250]	
MMP28	Matrix metallopeptidase 28 [Source:HGNC Symbol;Acc:14366]	
MMRN2	Multimerin 2 [Source:HGNC Symbol;Acc:19888]	
MMS19	MMS19 nucleotide excision repair homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:13824]	
MN1	Meningioma (disrupted in balanced translocation) 1	√
MOBKL1B	MOB1, Mps One Binder kinase activator-like 1B (yeast) [Source:HGNC Symbol;Acc:16015]	
MOBKL2C	MOB1, Mps One Binder kinase activator-like 2C (yeast) [Source:HGNC Symbol;Acc:29800]	
MOCOS	Molybdenum cofactor sulfurase [Source:HGNC Symbol;Acc:18234]	
MOCS2	Molybdenum cofactor synthesis 2 [Source:HGNC Symbol;Acc:7193]	
MOCS3	Molybdenum cofactor synthesis 3 [Source:HGNC Symbol;Acc:15765]	
MOGAT1	Monoacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:18210]	

MOGS	Mannosyl-oligosaccharide glucosidase [Source:HGNC Symbol;Acc:24862]	
MON1A	MON1 homolog A (yeast) [Source:HGNC Symbol;Acc:28207]	
MON2	MON2 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29177]	
MORC2	MORC family CW-type zinc finger 2 [Source:HGNC Symbol;Acc:23573]	
MORC3	MORC family CW-type zinc finger 3 [Source:HGNC Symbol;Acc:23572]	
MORC4	MORC family CW-type zinc finger 4 [Source:HGNC Symbol;Acc:23485]	
MORF4L1	Mortality factor 4 like 1 [Source:HGNC Symbol;Acc:16989]	
MOSC2	MOCO sulphurase C-terminal domain containing 2 [Source:HGNC Symbol;Acc:26064]	
MOSPD1	Motile sperm domain containing 1 [Source:HGNC Symbol;Acc:25235]	
MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse) [Source:HGNC Symbol;Acc:7200]	
MOV10L1	Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse) [Source:HGNC Symbol;Acc:7201]	
MOXD1	Monooxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:21063]	
MPDZ	Multiple PDZ domain protein [Source:HGNC Symbol;Acc:7208]	
MPEG1	Macrophage expressed 1 [Source:HGNC Symbol;Acc:29619]	
MPG	N-methylpurine-DNA glycosylase [Source:HGNC Symbol;Acc:7211]	
MPHOSPH6	M-phase phosphoprotein 6 [Source:HGNC Symbol;Acc:7214]	
MPO	Myeloperoxidase [Source:HGNC Symbol;Acc:7218]	
MPP3	Membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) [Source:HGNC Symbol;Acc:7221]	
MPPED2	Metallophosphoesterase domain containing 2 [Source:HGNC Symbol;Acc:1180]	
MPRIP	Myosin phosphatase Rho interacting protein [Source:HGNC Symbol;Acc:30321]	
MPST	Mercaptopyruvate sulfurtransferase [Source:HGNC Symbol;Acc:7223]	
MR1	Major histocompatibility complex, class I-related [Source:HGNC Symbol;Acc:4975]	
MRAP2	Melanocortin 2 receptor accessory protein 2 [Source:HGNC Symbol;Acc:21232]	
MRC1	Mannose receptor, C type 1 [Source:HGNC Symbol;Acc:7228]	
MRC1L1	Mannose receptor, C type 1-like 1 [Source:HGNC Symbol;Acc:23403]	

MRE11A	MRE11 meiotic recombination 11 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:7230]	
MREG	Melanoregulin [Source:HGNC Symbol;Acc:25478]	
MRGPRX3	MAS-related GPR, member X3 [Source:HGNC Symbol;Acc:17980]	
MRGPRX4	MAS-related GPR, member X4 [Source:HGNC Symbol;Acc:17617]	
MRO	Maestro [Source:HGNC Symbol;Acc:24121]	
MRPL13	Mitochondrial ribosomal protein L13 [Source:HGNC Symbol;Acc:14278]	
MRPL14	Mitochondrial ribosomal protein L14 [Source:HGNC Symbol;Acc:14279]	
MRPL28	Mitochondrial ribosomal protein L28 [Source:HGNC Symbol;Acc:14484]	
MRPL30	Mitochondrial ribosomal protein L30 [Source:HGNC Symbol;Acc:14036]	
MRPL32	Mitochondrial ribosomal protein L32 [Source:HGNC Symbol;Acc:14035]	
MRPL35	Mitochondrial ribosomal protein L35 [Source:HGNC Symbol;Acc:14489]	
MRPL38	Mitochondrial ribosomal protein L38 [Source:HGNC Symbol;Acc:14033]	
MRPL43	Mitochondrial ribosomal protein L43 [Source:HGNC Symbol;Acc:14517]	
MRPL50	Mitochondrial ribosomal protein L50 [Source:HGNC Symbol;Acc:16654]	
MRPL55	Mitochondrial ribosomal protein L55 [Source:HGNC Symbol;Acc:16686]	
MRPS23	Mitochondrial ribosomal protein S23 [Source:HGNC Symbol;Acc:14509]	
MRPS24	Mitochondrial ribosomal protein S24 [Source:HGNC Symbol;Acc:14510]	
MRPS27	Mitochondrial ribosomal protein S27 [Source:HGNC Symbol;Acc:14512]	
MRPS5	Mitochondrial ribosomal protein S5 [Source:HGNC Symbol;Acc:14498]	
MRVI1	Murine retrovirus integration site 1 homolog [Source:HGNC Symbol;Acc:7237]	
MS4A14	Membrane-spanning 4-domains, subfamily A, member 14 [Source:HGNC Symbol;Acc:30706]	
MS4A5	Membrane-spanning 4-domains, subfamily A, member 5 [Source:HGNC Symbol;Acc:13374]	
MS4A6A	Membrane-spanning 4-domains, subfamily A, member 6A [Source:HGNC Symbol;Acc:13375]	
MSH6	Muts homolog 6 (*E. Coli*)	√
MSI2	Musashi homolog 2 (Drosophila)	√
MSL1	Male-specific lethal 1 homolog (Drosophila) [Source:HGNC Symbol;Acc:27905]	

MSL2	Male-specific lethal 2 homolog (Drosophila) [Source:HGNC Symbol;Acc:25544]	
MSL3	Male-specific lethal 3 homolog (Drosophila) [Source:HGNC Symbol;Acc:7370]	
MSLNL	Mesothelin-like [Source:HGNC Symbol;Acc:14170]	
MSMB	Microseminoprotein, beta- [Source:HGNC Symbol;Acc:7372]	
MSN	Moesin	√
MST1R	Macrophage stimulating 1 receptor (c-met-related tyrosine kinase) [Source:HGNC Symbol;Acc:7381]	
MT1E	Metallothionein 1E [Source:HGNC Symbol;Acc:7397]	
MTAP	Methylthioadenosine phosphorylase [Source:HGNC Symbol;Acc:7413]	
MTBP	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein, 104kda [Source:HGNC Symbol;Acc:7417]	
MTDH	Metadherin [Source:HGNC Symbol;Acc:29608]	
MTERFD2	MTERF domain containing 2 [Source:HGNC Symbol;Acc:28785]	
MTERFD3	MTERF domain containing 3 [Source:HGNC Symbol;Acc:30779]	
MTF1	Metal-regulatory transcription factor 1 [Source:HGNC Symbol;Acc:7428]	
MTF2	Metal response element binding transcription factor 2 [Source:HGNC Symbol;Acc:29535]	
MTFR1	Mitochondrial fission regulator 1 [Source:HGNC Symbol;Acc:29510]	
MTHFD1	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase [Source:HGNC Symbol;Acc:7432]	
MTHFSD	Methenyltetrahydrofolate synthetase domain containing [Source:HGNC Symbol;Acc:25778]	
MTL5	Metallothionein-like 5, testis-specific (tesmin) [Source:HGNC Symbol;Acc:7446]	
MTMR10	Myotubularin related protein 10 [Source:HGNC Symbol;Acc:25999]	
MTMR12	Myotubularin related protein 12 [Source:HGNC Symbol;Acc:18191]	
MTMR2	Myotubularin related protein 2 [Source:HGNC Symbol;Acc:7450]	
MTMR3	Myotubularin related protein 3 [Source:HGNC Symbol;Acc:7451]	
MTMR4	Myotubularin related protein 4 [Source:HGNC Symbol;Acc:7452]	
MTMR8	Myotubularin related protein 8 [Source:HGNC Symbol;Acc:16825]	

MTMR9	Myotubularin related protein 9 [Source:HGNC Symbol;Acc:14596]	
MTNR1A	Melatonin receptor 1A [Source:HGNC Symbol;Acc:7463]	
MTO1	Mitochondrial translation optimization 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:19261]	
MTOR	Mechanistic target of rapamycin (serine/threonine kinase) [Source:HGNC Symbol;Acc:3942]	
MTPAP	Mitochondrial poly(A) polymerase [Source:HGNC Symbol;Acc:25532]	
MTPN	Myotrophin [Source:HGNC Symbol;Acc:15667]	
MTR	5-methyltetrahydrofolate-homocysteine methyltransferase [Source:HGNC Symbol;Acc:7468]	
MTUS1	Microtubule associated tumor suppressor 1 [Source:HGNC Symbol;Acc:29789]	
MTUS2	Microtubule associated tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:20595]	
MUC12	Mucin 12, cell surface associated [Source:HGNC Symbol;Acc:7510]	
MUC2	Mucin 2, oligomeric mucus/gel-forming [Source:HGNC Symbol;Acc:7512]	
MUC4	Mucin 4, cell surface associated [Source:HGNC Symbol;Acc:7514]	
MUC5AC	Mucin 5AC, oligomeric mucus/gel-forming [Source:HGNC Symbol;Acc:7515]	
MUC5B	Mucin 5B, oligomeric mucus/gel-forming [Source:HGNC Symbol;Acc:7516]	
MUC6	Mucin 6, oligomeric mucus/gel-forming [Source:HGNC Symbol;Acc:7517]	
MUL1	Mitochondrial E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:25762]	
MUM1	Melanoma associated antigen (mutated) 1 [Source:HGNC Symbol;Acc:29641]	
MURC	Muscle-related coiled-coil protein [Source:HGNC Symbol;Acc:33742]	
MUT	Methylmalonyl coa mutase [Source:HGNC Symbol;Acc:7526]	
MUTED	Muted homolog (mouse) [Source:HGNC Symbol;Acc:18561]	
MX2	Myxovirus (influenza virus) resistance 2 (mouse) [Source:HGNC Symbol;Acc:7533]	
MXI1	MAX interactor 1 [Source:HGNC Symbol;Acc:7534]	
MXRA5	Matrix-remodelling associated 5 [Source:HGNC Symbol;Acc:7539]	
MYBPC2	Myosin binding protein C, fast type [Source:HGNC Symbol;Acc:7550]	

MYBPC3	Myosin binding protein C, cardiac [Source:HGNC Symbol;Acc:7551]	
MYBPHL	Myosin binding protein H-like [Source:HGNC Symbol;Acc:30434]	
MYCBP2	MYC binding protein 2 [Source:HGNC Symbol;Acc:23386]	
MYCL1	V-myc myelocytomatosis viral oncogene homolog 1, lung carcinoma derived (avian) [Source:HGNC Symbol;Acc:7555]	
MYD88	Myeloid differentiation primary response gene (88)	√
MYF6	Myogenic factor 6 (herculin) [Source:HGNC Symbol;Acc:7566]	
MYH1	Myosin, heavy chain 1, skeletal muscle, adult [Source:HGNC Symbol;Acc:7567]	
MYH10	Myosin, heavy chain 10, non-muscle [Source:HGNC Symbol;Acc:7568]	
MYH11	Myosin, heavy chain 11, smooth muscle	√
MYH15	Myosin, heavy chain 15 [Source:HGNC Symbol;Acc:31073]	
MYH2	Myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC Symbol;Acc:7572]	
MYH3	Myosin, heavy chain 3, skeletal muscle, embryonic [Source:HGNC Symbol;Acc:7573]	
MYH4	Myosin, heavy chain 4, skeletal muscle [Source:HGNC Symbol;Acc:7574]	
MYH7	Myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC Symbol;Acc:7577]	
MYH8	Myosin, heavy chain 8, skeletal muscle, perinatal [Source:HGNC Symbol;Acc:7578]	
MYL3	Myosin, light chain 3, alkali; ventricular, skeletal, slow [Source:HGNC Symbol;Acc:7584]	
MYL6	Myosin, light chain 6, alkali, smooth muscle and non-muscle [Source:HGNC Symbol;Acc:7587]	
MYLIP	Myosin regulatory light chain interacting protein [Source:HGNC Symbol;Acc:21155]	
MYLK	Myosin light chain kinase [Source:HGNC Symbol;Acc:7590]	
MYLK3	Myosin light chain kinase 3 [Source:HGNC Symbol;Acc:29826]	
MYLK4	Myosin light chain kinase family, member 4 [Source:HGNC Symbol;Acc:27972]	
MYNN	Myoneurin [Source:HGNC Symbol;Acc:14955]	
MYO15A	Myosin XVA [Source:HGNC Symbol;Acc:7594]	

MYO15B	Myosin XVB pseudogene [Source:HGNC Symbol;Acc:14083]	
MYO16	Myosin XVI [Source:HGNC Symbol;Acc:29822]	
MYO18A	Myosin XVIIIA [Source:HGNC Symbol;Acc:31104]	
MYO19	Myosin XIX [Source:HGNC Symbol;Acc:26234]	
MYO1A	Myosin IA [Source:HGNC Symbol;Acc:7595]	
MYO3A	Myosin IIIA [Source:HGNC Symbol;Acc:7601]	
MYO5A	Myosin VA (heavy chain 12, myoxin) [Source:HGNC Symbol;Acc:7602]	
MYO5B	Myosin VB [Source:HGNC Symbol;Acc:7603]	
MYO5C	Myosin VC [Source:HGNC Symbol;Acc:7604]	
MYO9A	Myosin IXA [Source:HGNC Symbol;Acc:7608]	
MYOC	Myocilin, trabecular meshwork inducible glucocorticoid response [Source:HGNC Symbol;Acc:7610]	
MYOCD	Myocardin [Source:HGNC Symbol;Acc:16067]	
MYOF	Myoferlin [Source:HGNC Symbol;Acc:3656]	
MYOM1	Myomesin 1, 185kda [Source:HGNC Symbol;Acc:7613]	
MYOT	Myotilin [Source:HGNC Symbol;Acc:12399]	
MYOZ3	Myozenin 3 [Source:HGNC Symbol;Acc:18565]	
MYPN	Myopalladin [Source:HGNC Symbol;Acc:23246]	
MYRIP	Myosin VIIA and Rab interacting protein [Source:HGNC Symbol;Acc:19156]	
MYST3	MYST histone acetyltransferase (monocytic leukemia) 3 [Source:HGNC Symbol;Acc:13013]	
MYST4	MYST histone acetyltransferase (monocytic leukemia) 4	√
MYT1	Myelin transcription factor 1 [Source:HGNC Symbol;Acc:7622]	
MYT1L	Myelin transcription factor 1-like [Source:HGNC Symbol;Acc:7623]	
MZT1	Mitotic spindle organizing protein 1 [Source:HGNC Symbol;Acc:33830]	
N4BP2	NEDD4 binding protein 2 [Source:HGNC Symbol;Acc:29851]	
NAA16	N(alpha)-acetyltransferase 16, nata auxiliary subunit [Source:HGNC Symbol;Acc:26164]	
NAA25	N(alpha)-acetyltransferase 25, natb auxiliary subunit [Source:HGNC Symbol;Acc:25783]	
NAA30	N(alpha)-acetyltransferase 30, natc catalytic subunit [Source:HGNC Symbol;Acc:19844]	

NAA40	N(alpha)-acetyltransferase 40, natd catalytic subunit, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25845]	
NAA50	N(alpha)-acetyltransferase 50, nate catalytic subunit [Source:HGNC Symbol;Acc:29533]	
NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:736]	
NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC Symbol;Acc:14526]	
NAALADL1	N-acetylated alpha-linked acidic dipeptidase-like 1 [Source:HGNC Symbol;Acc:23536]	
NACA	Nascent polypeptide-associated complex alpha subunit	√
NACC1	Nucleus accumbens associated 1, BEN and BTB (POZ) domain containing [Source:HGNC Symbol;Acc:20967]	
NADK	NAD kinase [Source:HGNC Symbol;Acc:29831]	
NADSYN1	NAD synthetase 1 [Source:HGNC Symbol;Acc:29832]	
NAGK	N-acetylglucosamine kinase [Source:HGNC Symbol;Acc:17174]	
NAGLU	N-acetylglucosaminidase, alpha [Source:HGNC Symbol;Acc:7632]	
NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Source:HGNC Symbol;Acc:17378]	
NAIF1	Nuclear apoptosis inducing factor 1 [Source:HGNC Symbol;Acc:25446]	
NAIP	NLR family, apoptosis inhibitory protein [Source:HGNC Symbol;Acc:7634]	
NALCN	Sodium leak channel, non-selective [Source:HGNC Symbol;Acc:19082]	
NAMPT	Nicotinamide phosphoribosyltransferase [Source:HGNC Symbol;Acc:30092]	
NANP	N-acetylneuraminic acid phosphatase [Source:HGNC Symbol;Acc:16140]	
NANS	N-acetylneuraminic acid synthase [Source:HGNC Symbol;Acc:19237]	
NAP1L4	Nucleosome assembly protein 1-like 4 [Source:HGNC Symbol;Acc:7640]	
NAP1L5	Nucleosome assembly protein 1-like 5 [Source:HGNC Symbol;Acc:19968]	
NAPRT1	Nicotinate phosphoribosyltransferase domain containing 1 [Source:HGNC Symbol;Acc:30450]	
NARF	Nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:29916]	
NARFL	Nuclear prelamin A recognition factor-like [Source:HGNC Symbol;Acc:14179]	
NARG2	NMDA receptor regulated 2 [Source:HGNC Symbol;Acc:29885]	

NARS	Asparaginyl-trna synthetase [Source:HGNC Symbol;Acc:7643]	
NARS2	Asparaginyl-trna synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:26274]	
NASP	Nuclear autoantigenic sperm protein (histone-binding) [Source:HGNC Symbol;Acc:7644]	
NAT1	N-acetyltransferase 1 (arylamine N-acetyltransferase) [Source:HGNC Symbol;Acc:7645]	
NAT10	N-acetyltransferase 10 (GCN5-related) [Source:HGNC Symbol;Acc:29830]	
NAT8L	N-acetyltransferase 8-like (GCN5-related, putative) [Source:HGNC Symbol;Acc:26742]	
NAV2	Neuron navigator 2 [Source:HGNC Symbol;Acc:15997]	
NBAS	Neuroblastoma amplified sequence [Source:HGNC Symbol;Acc:15625]	
NBEA	Neurobeachin [Source:HGNC Symbol;Acc:7648]	
NBEAL1	Neurobeachin-like 1 [Source:HGNC Symbol;Acc:20681]	
NBEAL2	Neurobeachin-like 2 [Source:HGNC Symbol;Acc:31928]	
NBL1	Neuroblastoma, suppression of tumorigenicity 1 [Source:HGNC Symbol;Acc:7650]	
NBPF10	Neuroblastoma breakpoint family, member 10 [Source:HGNC Symbol;Acc:31992]	
NBPF11	Neuroblastoma breakpoint family, member 11 [Source:HGNC Symbol;Acc:31993]	
NBPF12	Neuroblastoma breakpoint family, member 12 [Source:HGNC Symbol;Acc:31994]	
NBPF14	Neuroblastoma breakpoint family, member 14 [Source:HGNC Symbol;Acc:25232]	
NBPF15	Neuroblastoma breakpoint family, member 15 [Source:HGNC Symbol;Acc:28791]	
NBPF16	Neuroblastoma breakpoint family, member 16 [Source:HGNC Symbol;Acc:31996]	
NBPF20	Neuroblastoma breakpoint family, member 20 [Source:HGNC Symbol;Acc:32000]	

NBPF24	Neuroblastoma breakpoint family, member 24 [Source:HGNC Symbol;Acc:27299]	
NBPF3	Neuroblastoma breakpoint family, member 3 [Source:HGNC Symbol;Acc:25076]	
NBPF4	Neuroblastoma breakpoint family, member 4 [Source:HGNC Symbol;Acc:26550]	
NBPF6	Neuroblastoma breakpoint family, member 6 [Source:HGNC Symbol;Acc:31988]	
NBPF9	Neuroblastoma breakpoint family, member 9 [Source:HGNC Symbol;Acc:31991]	
NBR1	Neighbor of BRCA1 gene 1 [Source:HGNC Symbol;Acc:6746]	
NCALD	Neurocalcin delta [Source:HGNC Symbol;Acc:7655]	
NCAM2	Neural cell adhesion molecule 2 [Source:HGNC Symbol;Acc:7657]	
NCAN	Neurocan [Source:HGNC Symbol;Acc:2465]	
NCAPG	Non-SMC condensin I complex, subunit G [Source:HGNC Symbol;Acc:24304]	
NCAPG2	Non-SMC condensin II complex, subunit G2 [Source:HGNC Symbol;Acc:21904]	
NCAPH	Non-SMC condensin I complex, subunit H [Source:HGNC Symbol;Acc:1112]	
NCBP2	Nuclear cap binding protein subunit 2, 20kda [Source:HGNC Symbol;Acc:7659]	
NCCRP1	Non-specific cytotoxic cell receptor protein 1 homolog (zebrafish) [Source:HGNC Symbol;Acc:33739]	
NCF2	Neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:7661]	
NCK1	NCK adaptor protein 1 [Source:HGNC Symbol;Acc:7664]	
NCKAP1L	NCK-associated protein 1-like [Source:HGNC Symbol;Acc:4862]	
NCKAP5	NCK-associated protein 5 [Source:HGNC Symbol;Acc:29847]	
NCKIPSD	NCK interacting protein with SH3 domain [Source:HGNC Symbol;Acc:15486]	
NCLN	Nicalin [Source:HGNC Symbol;Acc:26923]	
NCOA1	Nuclear receptor coactivator 1	√
NCOA3	Nuclear receptor coactivator 3 [Source:HGNC Symbol;Acc:7670]	

NCOA5	Nuclear receptor coactivator 5 [Source:HGNC Symbol;Acc:15909]	
NCOA6	Nuclear receptor coactivator 6 [Source:HGNC Symbol;Acc:15936]	
NCOR1	Nuclear receptor corepressor 1 [Source:HGNC Symbol;Acc:7672]	
NCOR2	Nuclear receptor corepressor 2 [Source:HGNC Symbol;Acc:7673]	
NCS1	Neuronal calcium sensor 1 [Source:HGNC Symbol;Acc:3953]	
NCSTN	Nicastrin [Source:HGNC Symbol;Acc:17091]	
NDC80	NDC80 homolog, kinetochore complex component (S. Cerevisiae) [Source:HGNC Symbol;Acc:16909]	
NDEL1	Nude nuclear distribution gene E homolog (A. Nidulans)-like 1 [Source:HGNC Symbol;Acc:17620]	
NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:17592]	
NDFIP2	Nedd4 family interacting protein 2 [Source:HGNC Symbol;Acc:18537]	
NDRG1	N-myc downstream regulated 1	√
NDRG4	NDRG family member 4 [Source:HGNC Symbol;Acc:14466]	
NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 [Source:HGNC Symbol;Acc:7681]	
NDST3	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3 [Source:HGNC Symbol;Acc:7682]	
NDUFA10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kda [Source:HGNC Symbol;Acc:7684]	
NDUFA3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kda [Source:HGNC Symbol;Acc:7686]	
NDUFAF3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 3 [Source:HGNC Symbol;Acc:29918]	
NDUFB10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kda [Source:HGNC Symbol;Acc:7696]	
NDUFB5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kda [Source:HGNC Symbol;Acc:7700]	
NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kda [Source:HGNC Symbol;Acc:7704]	
NDUFC2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kda [Source:HGNC Symbol;Acc:7706]	

NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kda (NADH-coenzyme Q reductase) [Source:HGNC Symbol;Acc:7708]	
NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kda (NADH-coenzyme Q reductase) [Source:HGNC Symbol;Acc:7712]	
NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kda [Source:HGNC Symbol;Acc:7716]	
NDUFV2	NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kda [Source:HGNC Symbol;Acc:7717]	
NEB	Nebulin [Source:HGNC Symbol;Acc:7720]	
NEBL	Nebulette [Source:HGNC Symbol;Acc:16932]	
NECAP1	NECAP endocytosis associated 1 [Source:HGNC Symbol;Acc:24539]	
NECAP2	NECAP endocytosis associated 2 [Source:HGNC Symbol;Acc:25528]	
NEDD1	Neural precursor cell expressed, developmentally down-regulated 1 [Source:HGNC Symbol;Acc:7723]	
NEDD4	Neural precursor cell expressed, developmentally down-regulated 4 [Source:HGNC Symbol;Acc:7727]	
NEDD4L	Neural precursor cell expressed, developmentally down-regulated 4-like [Source:HGNC Symbol;Acc:7728]	
NEDD8	Neural precursor cell expressed, developmentally down-regulated 8 [Source:HGNC Symbol;Acc:7732]	
NEFH	Neurofilament, heavy polypeptide [Source:HGNC Symbol;Acc:7737]	
NEK11	NIMA (never in mitosis gene a)- related kinase 11 [Source:HGNC Symbol;Acc:18593]	
NEK6	NIMA (never in mitosis gene a)-related kinase 6 [Source:HGNC Symbol;Acc:7749]	
NEK8	NIMA (never in mitosis gene a)- related kinase 8 [Source:HGNC Symbol;Acc:13387]	
NEK9	NIMA (never in mitosis gene a)- related kinase 9 [Source:HGNC Symbol;Acc:18591]	
NELL1	NEL-like 1 (chicken) [Source:HGNC Symbol;Acc:7750]	
NELL2	NEL-like 2 (chicken) [Source:HGNC Symbol;Acc:7751]	
NEO1	Neogenin 1 [Source:HGNC Symbol;Acc:7754]	
NET1	Neuroepithelial cell transforming 1 [Source:HGNC Symbol;Acc:14592]	

NETO1	Neuropilin (NRP) and tolloid (TLL)-like 1 [Source:HGNC Symbol;Acc:13823]	
NEU1	Sialidase 1 (lysosomal sialidase) [Source:HGNC Symbol;Acc:7758]	
NEU3	Sialidase 3 (membrane sialidase) [Source:HGNC Symbol;Acc:7760]	
NEUROD4	Neurogenic differentiation 4 [Source:HGNC Symbol;Acc:13802]	
NEXN	Nexilin (F actin binding protein) [Source:HGNC Symbol;Acc:29557]	
NF1	Neurofibromin 1	√
NF2	Neurofibromin 2 (merlin)	√
NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive [Source:HGNC Symbol;Acc:7774]	
NFATC1	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 [Source:HGNC Symbol;Acc:7775]	
NFATC2	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 [Source:HGNC Symbol;Acc:7776]	
NFATC4	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 [Source:HGNC Symbol;Acc:7778]	
NFIA	Nuclear factor I/A [Source:HGNC Symbol;Acc:7784]	
NFKBIA	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Source:HGNC Symbol;Acc:7797]	
NFRKB	Nuclear factor related to kappab binding protein [Source:HGNC Symbol;Acc:7802]	
NFX1	Nuclear transcription factor, X-box binding 1 [Source:HGNC Symbol;Acc:7803]	
NFYA	Nuclear transcription factor Y, alpha [Source:HGNC Symbol;Acc:7804]	
NGB	Neuroglobin [Source:HGNC Symbol;Acc:14077]	
NGEF	Neuronal guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:7807]	
NGLY1	N-glycanase 1 [Source:HGNC Symbol;Acc:17646]	
NHLH1	Nescient helix loop helix 1 [Source:HGNC Symbol;Acc:7817]	
NHLH2	Nescient helix loop helix 2 [Source:HGNC Symbol;Acc:7818]	
NHLRC2	NHL repeat containing 2 [Source:HGNC Symbol;Acc:24731]	
NHP2L1	NHP2 non-histone chromosome protein 2-like 1 (S. Cerevisiae) [Source:HGNC Symbol;Acc:7819]	

NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies) [Source:HGNC Symbol;Acc:7820]	
NHSL1	NHS-like 1 [Source:HGNC Symbol;Acc:21021]	
NHSL2	NHS-like 2 [Source:HGNC Symbol;Acc:33737]	
NID1	Nidogen 1 [Source:HGNC Symbol;Acc:7821]	
NIF3L1	NIF3 NGG1 interacting factor 3-like 1 (S. Pombe) [Source:HGNC Symbol;Acc:13390]	
NIN	Ninein (GSK3B interacting protein)	√
NINJ2	Ninjurin 2 [Source:HGNC Symbol;Acc:7825]	
NINL	Ninein-like [Source:HGNC Symbol;Acc:29163]	
NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1 [Source:HGNC Symbol;Acc:17043]	
NIPAL1	NIPA-like domain containing 1 [Source:HGNC Symbol;Acc:27194]	
NIPBL	Nipped-B homolog (Drosophila) [Source:HGNC Symbol;Acc:28862]	
NISCH	Nischarin [Source:HGNC Symbol;Acc:18006]	
NKAIN2	Na+/K+ transporting atpase interacting 2 [Source:HGNC Symbol;Acc:16443]	
NKAP	NFKB activating protein [Source:HGNC Symbol;Acc:29873]	
NKIRAS1	NFKB inhibitor interacting Ras-like 1 [Source:HGNC Symbol;Acc:17899]	
NKPD1	Ntpase, KAP family P-loop domain containing 1 [Source:HGNC Symbol;Acc:24739]	
NLE1	Notchless homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19889]	
NLGN1	Neuroligin 1 [Source:HGNC Symbol;Acc:14291]	
NLGN3	Neuroligin 3 [Source:HGNC Symbol;Acc:14289]	
NLGN4X	Neuroligin 4, X-linked [Source:HGNC Symbol;Acc:14287]	
NLGN4Y	Neuroligin 4, Y-linked [Source:HGNC Symbol;Acc:15529]	
NLN	Neurolysin (metallopeptidase M3 family) [Source:HGNC Symbol;Acc:16058]	
NLRC3	NLR family, CARD domain containing 3 [Source:HGNC Symbol;Acc:29889]	
NLRC5	NLR family, CARD domain containing 5 [Source:HGNC Symbol;Acc:29933]	
NLRP2	NLR family, pyrin domain containing 2 [Source:HGNC Symbol;Acc:22948]	

NLRP3	NLR family, pyrin domain containing 3 [Source:HGNC Symbol;Acc:16400]	
NMB	Neuromedin B [Source:HGNC Symbol;Acc:7842]	
NMBR	Neuromedin B receptor [Source:HGNC Symbol;Acc:7843]	
NME6	Non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase) [Source:HGNC Symbol;Acc:20567]	
NMNAT3	Nicotinamide nucleotide adenylyltransferase 3 [Source:HGNC Symbol;Acc:20989]	
NMT2	N-myristoyltransferase 2 [Source:HGNC Symbol;Acc:7858]	
NMUR1	Neuromedin U receptor 1 [Source:HGNC Symbol;Acc:4518]	
NNMT	Nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:7861]	
NOB1	NIN1/RPN12 binding protein 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29540]	
NOBOX	NOBOX oogenesis homeobox [Source:HGNC Symbol;Acc:22448]	
NOC4L	Nucleolar complex associated 4 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:28461]	
NOD1	Nucleotide-binding oligomerization domain containing 1 [Source:HGNC Symbol;Acc:16390]	
NOD2	Nucleotide-binding oligomerization domain containing 2 [Source:HGNC Symbol;Acc:5331]	
NOL10	Nucleolar protein 10 [Source:HGNC Symbol;Acc:25862]	
NOL8	Nucleolar protein 8 [Source:HGNC Symbol;Acc:23387]	
NOLC1	Nucleolar and coiled-body phosphoprotein 1 [Source:HGNC Symbol;Acc:15608]	
NOM1	Nucleolar protein with MIF4G domain 1 [Source:HGNC Symbol;Acc:13244]	
NONO	Non-POU domain containing, octamer-binding	√
NOP2	NOP2 nucleolar protein homolog (yeast) [Source:HGNC Symbol;Acc:7867]	
NOS1	Nitric oxide synthase 1 (neuronal) [Source:HGNC Symbol;Acc:7872]	
NOS1AP	Nitric oxide synthase 1 (neuronal) adaptor protein [Source:HGNC Symbol;Acc:16859]	
NOS2	Nitric oxide synthase 2, inducible [Source:HGNC Symbol;Acc:7873]	
NOS3	Nitric oxide synthase 3 (endothelial cell) [Source:HGNC Symbol;Acc:7876]	
NOSTRIN	Nitric oxide synthase trafficker [Source:HGNC Symbol;Acc:20203]	

NOTCH1	Notch 1	√
NOTCH2	Notch 2	√
NOTCH2NL	Notch 2 N-terminal like [Source:HGNC Symbol;Acc:31862]	
NOTCH3	Notch 3 [Source:HGNC Symbol;Acc:7883]	
NOTCH4	Notch 4 [Source:HGNC Symbol;Acc:7884]	
NOTUM	Notum pectinacetylesterase homolog (Drosophila) [Source:HGNC Symbol;Acc:27106]	
NOVA1	Neuro-oncological ventral antigen 1 [Source:HGNC Symbol;Acc:7886]	
NOVA2	Neuro-oncological ventral antigen 2 [Source:HGNC Symbol;Acc:7887]	
NOX5	NADPH oxidase, EF-hand calcium binding domain 5 [Source:HGNC Symbol;Acc:14874]	
NPAS4	Neuronal PAS domain protein 4 [Source:HGNC Symbol;Acc:18983]	
NPC1	Niemann-Pick disease, type C1 [Source:HGNC Symbol;Acc:7897]	
NPEPL1	Aminopeptidase-like 1 [Source:HGNC Symbol;Acc:16244]	
NPFF	Neuropeptide FF-amide peptide precursor [Source:HGNC Symbol;Acc:7901]	
NPHP1	Nephronophthisis 1 (juvenile) [Source:HGNC Symbol;Acc:7905]	
NPHP3	Nephronophthisis 3 (adolescent) [Source:HGNC Symbol;Acc:7907]	
NPHP4	Nephronophthisis 4 [Source:HGNC Symbol;Acc:19104]	
NPHS1	Nephrosis 1, congenital, Finnish type (nephrin) [Source:HGNC Symbol;Acc:7908]	
NPLOC4	Nuclear protein localization 4 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:18261]	
NPR1	Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A) [Source:HGNC Symbol;Acc:7943]	
NPRL2	Nitrogen permease regulator-like 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:24969]	
NPTN	Neuroplastin [Source:HGNC Symbol;Acc:17867]	
NPY5R	Neuropeptide Y receptor Y5 [Source:HGNC Symbol;Acc:7958]	
NQO1	NAD(P)H dehydrogenase, quinone 1 [Source:HGNC Symbol;Acc:2874]	
NR1D1	Nuclear receptor subfamily 1, group D, member 1 [Source:HGNC Symbol;Acc:7962]	

NR1H2	Nuclear receptor subfamily 1, group H, member 2 [Source:HGNC Symbol;Acc:7965]	
NR1H3	Nuclear receptor subfamily 1, group H, member 3 [Source:HGNC Symbol;Acc:7966]	
NR1H4	Nuclear receptor subfamily 1, group H, member 4 [Source:HGNC Symbol;Acc:7967]	
NR1I2	Nuclear receptor subfamily 1, group I, member 2 [Source:HGNC Symbol;Acc:7968]	
NR2E1	Nuclear receptor subfamily 2, group E, member 1 [Source:HGNC Symbol;Acc:7973]	
NR2F1	Nuclear receptor subfamily 2, group F, member 1 [Source:HGNC Symbol;Acc:7975]	
NR2F2	Nuclear receptor subfamily 2, group F, member 2 [Source:HGNC Symbol;Acc:7976]	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) [Source:HGNC Symbol;Acc:7978]	
NR3C2	Nuclear receptor subfamily 3, group C, member 2 [Source:HGNC Symbol;Acc:7979]	
NRAP	Nebulin-related anchoring protein [Source:HGNC Symbol;Acc:7988]	
NRARP	NOTCH-regulated ankyrin repeat protein [Source:HGNC Symbol;Acc:33843]	
NRBP1	Nuclear receptor binding protein 1 [Source:HGNC Symbol;Acc:7993]	
NRBP2	Nuclear receptor binding protein 2 [Source:HGNC Symbol;Acc:19339]	
NRF1	Nuclear respiratory factor 1 [Source:HGNC Symbol;Acc:7996]	
NRG2	Neuregulin 2 [Source:HGNC Symbol;Acc:7998]	
NRGN	Neurogranin (protein kinase C substrate, RC3) [Source:HGNC Symbol;Acc:8000]	
NRIP2	Nuclear receptor interacting protein 2 [Source:HGNC Symbol;Acc:23078]	
NRM	Nurim (nuclear envelope membrane protein) [Source:HGNC Symbol;Acc:8003]	
NRP1	Neuropilin 1 [Source:HGNC Symbol;Acc:8004]	
NRP2	Neuropilin 2 [Source:HGNC Symbol;Acc:8005]	
NRXN1	Neurexin 1 [Source:HGNC Symbol;Acc:8008]	

NRXN3	Neurexin 3 [Source:HGNC Symbol;Acc:8010]	
NSA2	NSA2 ribosome biogenesis homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:30728]	
NSF	N-ethylmaleimide-sensitive factor [Source:HGNC Symbol;Acc:8016]	
NSMAF	Neutral sphingomyelinase (N-smase) activation associated factor [Source:HGNC Symbol;Acc:8017]	
NSUN4	NOP2/Sun domain family, member 4 [Source:HGNC Symbol;Acc:31802]	
NSUN5	NOP2/Sun domain family, member 5 [Source:HGNC Symbol;Acc:16385]	
NSUN7	NOP2/Sun domain family, member 7 [Source:HGNC Symbol;Acc:25857]	
NT5C1A	5'-nucleotidase, cytosolic IA [Source:HGNC Symbol;Acc:17819]	
NT5C1B	5'-nucleotidase, cytosolic IB [Source:HGNC Symbol;Acc:17818]	
NT5C2	5'-nucleotidase, cytosolic II	√
NT5DC3	5'-nucleotidase domain containing 3 [Source:HGNC Symbol;Acc:30826]	
NT5DC4	5'-nucleotidase domain containing 4 [Source:HGNC Symbol;Acc:27678]	
NT5M	5',3'-nucleotidase, mitochondrial [Source:HGNC Symbol;Acc:15769]	
NTN5	Netrin 5 [Source:HGNC Symbol;Acc:25208]	
NTNG1	Netrin G1 [Source:HGNC Symbol;Acc:23319]	
NTNG2	Netrin G2 [Source:HGNC Symbol;Acc:14288]	
NTRK1	Neurotrophic tyrosine kinase, receptor, type 1 [Source:HGNC Symbol;Acc:8031]	
NTRK2	Neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:8032]	
NTRK3	Neurotrophic tyrosine kinase, receptor, type 3	√
NTSR1	Neurotensin receptor 1 (high affinity) [Source:HGNC Symbol;Acc:8039]	
NTSR2	Neurotensin receptor 2 [Source:HGNC Symbol;Acc:8040]	
NUCB1	Nucleobindin 1 [Source:HGNC Symbol;Acc:8043]	
NUDT1	Nudix (nucleoside diphosphate linked moiety X)-type motif 1 [Source:HGNC Symbol;Acc:8048]	
NUDT11	Nudix (nucleoside diphosphate linked moiety X)-type motif 11 [Source:HGNC Symbol;Acc:18011]	
NUDT14	Nudix (nucleoside diphosphate linked moiety X)-type motif 14 [Source:HGNC Symbol;Acc:20141]	

NUDT18	Nudix (nucleoside diphosphate linked moiety X)-type motif 18 [Source:HGNC Symbol;Acc:26194]	
NUDT21	Nudix (nucleoside diphosphate linked moiety X)-type motif 21 [Source:HGNC Symbol;Acc:13870]	
NUDT5	Nudix (nucleoside diphosphate linked moiety X)-type motif 5 [Source:HGNC Symbol;Acc:8052]	
NUDT9	Nudix (nucleoside diphosphate linked moiety X)-type motif 9 [Source:HGNC Symbol;Acc:8056]	
NUFIP1	Nuclear fragile X mental retardation protein interacting protein 1 [Source:HGNC Symbol;Acc:8057]	
NUMBL	Numb homolog (Drosophila)-like [Source:HGNC Symbol;Acc:8061]	
NUP133	Nucleoporin 133kda [Source:HGNC Symbol;Acc:18016]	
NUP188	Nucleoporin 188kda [Source:HGNC Symbol;Acc:17859]	
NUP205	Nucleoporin 205kda [Source:HGNC Symbol;Acc:18658]	
NUP210	Nucleoporin 210 kDa	
NUP210L	Nucleoporin 210 kDa-like	
NUP214	Nucleoporin 214 kDa	√
NUP50	Nucleoporin 50 kDa	
NUP85	Nucleoporin 85 kDa	
NUP93	Nucleoporin 93 kDa	
NUP98	Nucleoporin 98 kDa	√
NUPL1	Nucleoporin like 1 [Source:HGNC Symbol;Acc:20261]	
NUS1	Nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:21042]	
NUTF2	Nuclear transport factor 2 [Source:HGNC Symbol;Acc:13722]	
NWD1	NACHT and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:27619]	
NXF1	Nuclear RNA export factor 1 [Source:HGNC Symbol;Acc:8071]	
NXPH1	Neurexophilin 1 [Source:HGNC Symbol;Acc:20693]	
NYNRIN	NYN domain and retroviral integrase containing [Source:HGNC Symbol;Acc:20165]	
OAF	OAF homolog (Drosophila) [Source:HGNC Symbol;Acc:28752]	
OAZ1	Ornithine decarboxylase antizyme 1 [Source:HGNC Symbol;Acc:8095]	

OBFC2A	Oligonucleotide/oligosaccharide-binding fold containing 2A [Source:HGNC Symbol;Acc:26232]	
OBSCN	Obscurin, cytoskeletal calmodulin and titin-interacting rhogef [Source:HGNC Symbol;Acc:15719]	
OBSL1	Obscurin-like 1 [Source:HGNC Symbol;Acc:29092]	
OC90	Otoconin 90 [Source:HGNC Symbol;Acc:8100]	
OCIAD2	OCIA domain containing 2 [Source:HGNC Symbol;Acc:28685]	
OCM	Oncomodulin [Source:HGNC Symbol;Acc:8105]	
OCM2	Oncomodulin 2 [Source:HGNC Symbol;Acc:34396]	
ODF1	Outer dense fiber of sperm tails 1 [Source:HGNC Symbol;Acc:8113]	
ODF4	Outer dense fiber of sperm tails 4 [Source:HGNC Symbol;Acc:19056]	
ODZ1	Odz, odd Oz/ten-m homolog 1(Drosophila) [Source:HGNC Symbol;Acc:8117]	
ODZ2	Odz, odd Oz/ten-m homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:29943]	
ODZ3	Odz, odd Oz/ten-m homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:29944]	
ODZ4	Odz, odd Oz/ten-m homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:29945]	
OGT	O-linked N-acetylglucosamine (glcnac) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) [Source:HGNC Symbol;Acc:8127]	
OIP5	Opa interacting protein 5 [Source:HGNC Symbol;Acc:20300]	
OIT3	Oncoprotein induced transcript 3 [Source:HGNC Symbol;Acc:29953]	
OLA1	Obg-like atpase 1 [Source:HGNC Symbol;Acc:28833]	
OLFM1	Olfactomedin 1 [Source:HGNC Symbol;Acc:17187]	
OLFM3	Olfactomedin 3 [Source:HGNC Symbol;Acc:17990]	
OLFML1	Olfactomedin-like 1 [Source:HGNC Symbol;Acc:24473]	
OLFML2A	Olfactomedin-like 2A [Source:HGNC Symbol;Acc:27270]	
OLIG2	Oligodendrocyte lineage transcription factor 2	√
ONECUT2	One cut homeobox 2 [Source:HGNC Symbol;Acc:8139]	
ONECUT3	One cut homeobox 3 [Source:HGNC Symbol;Acc:13399]	

OPA3	Optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia) [Source:HGNC Symbol;Acc:8142]	
OPCML	Opioid binding protein/cell adhesion molecule-like [Source:HGNC Symbol;Acc:8143]	
OPHN1	Oligophrenin 1 [Source:HGNC Symbol;Acc:8148]	
OPLAH	5-oxoprolinase (ATP-hydrolysing) [Source:HGNC Symbol;Acc:8149]	
OPN5	Opsin 5 [Source:HGNC Symbol;Acc:19992]	
OPRD1	Opioid receptor, delta 1 [Source:HGNC Symbol;Acc:8153]	
OPRK1	Opioid receptor, kappa 1 [Source:HGNC Symbol;Acc:8154]	
OPRM1	Opioid receptor, mu 1 [Source:HGNC Symbol;Acc:8156]	
OPTN	Optineurin [Source:HGNC Symbol;Acc:17142]	
OR10A6	Olfactory receptor, family 10, subfamily A, member 6 [Source:HGNC Symbol;Acc:15132]	
OR10A7	Olfactory receptor, family 10, subfamily A, member 7 [Source:HGNC Symbol;Acc:15329]	
OR10G4	Olfactory receptor, family 10, subfamily G, member 4 [Source:HGNC Symbol;Acc:14809]	
OR10G7	Olfactory receptor, family 10, subfamily G, member 7 [Source:HGNC Symbol;Acc:14842]	
OR10G9	Olfactory receptor, family 10, subfamily G, member 9 [Source:HGNC Symbol;Acc:15129]	
OR10R2	Olfactory receptor, family 10, subfamily R, member 2 [Source:HGNC Symbol;Acc:14820]	
OR11H6	Olfactory receptor, family 11, subfamily H, member 6 [Source:HGNC Symbol;Acc:15349]	
OR12D3	Olfactory receptor, family 12, subfamily D, member 3 [Source:HGNC Symbol;Acc:13963]	
OR1A1	Olfactory receptor, family 1, subfamily A, member 1 [Source:HGNC Symbol;Acc:8179]	
OR1B1	Olfactory receptor, family 1, subfamily B, member 1 [Source:HGNC Symbol;Acc:8181]	
OR1D2	Olfactory receptor, family 1, subfamily D, member 2 [Source:HGNC Symbol;Acc:8183]	

OR1G1	Olfactory receptor, family 1, subfamily G, member 1 [Source:HGNC Symbol;Acc:8204]	
OR1I1	Olfactory receptor, family 1, subfamily I, member 1 [Source:HGNC Symbol;Acc:8207]	
OR1K1	Olfactory receptor, family 1, subfamily K, member 1 [Source:HGNC Symbol;Acc:8212]	
OR1L4	Olfactory receptor, family 1, subfamily L, member 4 [Source:HGNC Symbol;Acc:8216]	
OR1L6	Olfactory receptor, family 1, subfamily L, member 6 [Source:HGNC Symbol;Acc:8218]	
OR2A14	Olfactory receptor, family 2, subfamily A, member 14 [Source:HGNC Symbol;Acc:15084]	
OR2AE1	Olfactory receptor, family 2, subfamily AE, member 1 [Source:HGNC Symbol;Acc:15087]	
OR2AG1	Olfactory receptor, family 2, subfamily AG, member 1 [Source:HGNC Symbol;Acc:15142]	
OR2B11	Olfactory receptor, family 2, subfamily B, member 11 [Source:HGNC Symbol;Acc:31249]	
OR2L13	Olfactory receptor, family 2, subfamily L, member 13 [Source:HGNC Symbol;Acc:19578]	
OR2M2	Olfactory receptor, family 2, subfamily M, member 2 [Source:HGNC Symbol;Acc:8268]	
OR2M3	Olfactory receptor, family 2, subfamily M, member 3 [Source:HGNC Symbol;Acc:8269]	
OR2M4	Olfactory receptor, family 2, subfamily M, member 4 [Source:HGNC Symbol;Acc:8270]	
OR2M5	Olfactory receptor, family 2, subfamily M, member 5 [Source:HGNC Symbol;Acc:19576]	
OR2M7	Olfactory receptor, family 2, subfamily M, member 7 [Source:HGNC Symbol;Acc:19594]	
OR3A1	Olfactory receptor, family 3, subfamily A, member 1 [Source:HGNC Symbol;Acc:8282]	

OR3A2	Olfactory receptor, family 3, subfamily A, member 2 [Source:HGNC Symbol;Acc:8283]	
OR3A3	Olfactory receptor, family 3, subfamily A, member 3 [Source:HGNC Symbol;Acc:8284]	
OR4A47	Olfactory receptor, family 4, subfamily A, member 47 [Source:HGNC Symbol;Acc:31266]	
OR4D1	Olfactory receptor, family 4, subfamily D, member 1 [Source:HGNC Symbol;Acc:8293]	
OR51B4	Olfactory receptor, family 51, subfamily B, member 4 [Source:HGNC Symbol;Acc:14708]	
OR51G2	Olfactory receptor, family 51, subfamily G, member 2 [Source:HGNC Symbol;Acc:15198]	
OR52B2	Olfactory receptor, family 52, subfamily B, member 2 [Source:HGNC Symbol;Acc:15207]	
OR52B4	Olfactory receptor, family 52, subfamily B, member 4 [Source:HGNC Symbol;Acc:15209]	
OR52L1	Olfactory receptor, family 52, subfamily L, member 1 [Source:HGNC Symbol;Acc:14785]	
OR52N5	Olfactory receptor, family 52, subfamily N, member 5 [Source:HGNC Symbol;Acc:15231]	
OR52R1	Olfactory receptor, family 52, subfamily R, member 1 [Source:HGNC Symbol;Acc:15235]	
OR5C1	Olfactory receptor, family 5, subfamily C, member 1 [Source:HGNC Symbol;Acc:8331]	
OR5L1	Olfactory receptor, family 5, subfamily L, member 1 [Source:HGNC Symbol;Acc:8350]	
OR5L2	Olfactory receptor, family 5, subfamily L, member 2 [Source:HGNC Symbol;Acc:8351]	
OR5M8	Olfactory receptor, family 5, subfamily M, member 8 [Source:HGNC Symbol;Acc:14846]	
OR5R1	Olfactory receptor, family 5, subfamily R, member 1 [Source:HGNC Symbol;Acc:14841]	

OR6C2	Olfactory receptor, family 6, subfamily C, member 2 [Source:HGNC Symbol;Acc:15436]	
OR6C68	Olfactory receptor, family 6, subfamily C, member 68 [Source:HGNC Symbol;Acc:31297]	
OR6Q1	Olfactory receptor, family 6, subfamily Q, member 1 [Source:HGNC Symbol;Acc:15302]	
OR6T1	Olfactory receptor, family 6, subfamily T, member 1 [Source:HGNC Symbol;Acc:14848]	
OR7D2	Olfactory receptor, family 7, subfamily D, member 2 [Source:HGNC Symbol;Acc:8378]	
OR7E24	Olfactory receptor, family 7, subfamily E, member 24 [Source:HGNC Symbol;Acc:8396]	
OR8A1	Olfactory receptor, family 8, subfamily A, member 1 [Source:HGNC Symbol;Acc:8469]	
OR8H1	Olfactory receptor, family 8, subfamily H, member 1 [Source:HGNC Symbol;Acc:14824]	
OR8I2	Olfactory receptor, family 8, subfamily I, member 2 [Source:HGNC Symbol;Acc:15310]	
OR8K3	Olfactory receptor, family 8, subfamily K, member 3 [Source:HGNC Symbol;Acc:15313]	
OR9K2	Olfactory receptor, family 9, subfamily K, member 2 [Source:HGNC Symbol;Acc:15339]	
OR9Q1	Olfactory receptor, family 9, subfamily Q, member 1 [Source:HGNC Symbol;Acc:14724]	
ORAI1	ORAI calcium release-activated calcium modulator 1 [Source:HGNC Symbol;Acc:25896]	
ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:21667]	
ORAOV1	Oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:17589]	
ORC1	Origin recognition complex, subunit 1 [Source:HGNC Symbol;Acc:8487]	
ORMDL2	ORM1-like 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:16037]	
ORMDL3	ORM1-like 3 (S. Cerevisiae) [Source:HGNC Symbol;Acc:16038]	
OSBP2	Oxysterol binding protein 2 [Source:HGNC Symbol;Acc:8504]	

OSBPL10	Oxysterol binding protein-like 10 [Source:HGNC Symbol;Acc:16395]	
OSBPL1A	Oxysterol binding protein-like 1A [Source:HGNC Symbol;Acc:16398]	
OSBPL3	Oxysterol binding protein-like 3 [Source:HGNC Symbol;Acc:16370]	
OSBPL5	Oxysterol binding protein-like 5 [Source:HGNC Symbol;Acc:16392]	
OSBPL6	Oxysterol binding protein-like 6 [Source:HGNC Symbol;Acc:16388]	
OSBPL8	Oxysterol binding protein-like 8 [Source:HGNC Symbol;Acc:16396]	
OSMR	Oncostatin M receptor [Source:HGNC Symbol;Acc:8507]	
OSTC	Oligosaccharyltransferase complex subunit [Source:HGNC Symbol;Acc:24448]	
OSTM1	Osteopetrosis associated transmembrane protein 1 [Source:HGNC Symbol;Acc:21652]	
OTOG	Otogelin [Source:HGNC Symbol;Acc:8516]	
OTOGL	Otogelin-like [Source:HGNC Symbol;Acc:26901]	
OTOP3	Otopetrin 3 [Source:HGNC Symbol;Acc:19658]	
OTP	Orthopedia homeobox [Source:HGNC Symbol;Acc:8518]	
OTUD4	OTU domain containing 4 [Source:HGNC Symbol;Acc:24949]	
OTUD7A	OTU domain containing 7A [Source:HGNC Symbol;Acc:20718]	
OVCH1	Ovochymase 1 [Source:HGNC Symbol;Acc:23080]	
OXER1	Oxoeicosanoid (OXE) receptor 1 [Source:HGNC Symbol;Acc:24884]	
OXNAD1	Oxidoreductase NAD-binding domain containing 1 [Source:HGNC Symbol;Acc:25128]	
P2RX3	Purinergic receptor P2X, ligand-gated ion channel, 3 [Source:HGNC Symbol;Acc:8534]	
P2RX4	Purinergic receptor P2X, ligand-gated ion channel, 4 [Source:HGNC Symbol;Acc:8535]	
P2RX5	Purinergic receptor P2X, ligand-gated ion channel, 5 [Source:HGNC Symbol;Acc:8536]	
P2RX6	Purinergic receptor P2X, ligand-gated ion channel, 6 [Source:HGNC Symbol;Acc:8538]	
P2RY1	Purinergic receptor P2Y, G-protein coupled, 1 [Source:HGNC Symbol;Acc:8539]	
P2RY12	Purinergic receptor P2Y, G-protein coupled, 12 [Source:HGNC Symbol;Acc:18124]	

P2RY14	Purinergic receptor P2Y, G-protein coupled, 14 [Source:HGNC Symbol;Acc:16442]	
P2RY8	Purinergic receptor P2Y, G-protein coupled, 8	√
P4HA1	Prolyl 4-hydroxylase, alpha polypeptide I [Source:HGNC Symbol;Acc:8546]	
P4HA2	Prolyl 4-hydroxylase, alpha polypeptide II [Source:HGNC Symbol;Acc:8547]	
PABPC1	Poly(A) binding protein, cytoplasmic 1 [Source:HGNC Symbol;Acc:8554]	
PABPC1L2B	Poly(A) binding protein, cytoplasmic 1-like 2B [Source:HGNC Symbol;Acc:31852]	
PACS1	Phosphofurin acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:30032]	
PACSIN2	Protein kinase C and casein kinase substrate in neurons 2 [Source:HGNC Symbol;Acc:8571]	
PADI4	Peptidyl arginine deiminase, type IV [Source:HGNC Symbol;Acc:18368]	
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)	√
PAFAH1B3	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29 kda)	
PAFAH2	Platelet-activating factor acetylhydrolase 2, 40kda [Source:HGNC Symbol;Acc:8579]	
PAGE1	P antigen family, member 1 (prostate associated) [Source:HGNC Symbol;Acc:4107]	
PAGE4	P antigen family, member 4 (prostate associated) [Source:HGNC Symbol;Acc:4108]	
PAK1	P21 protein (Cdc42/Rac)-activated kinase 1 [Source:HGNC Symbol;Acc:8590]	
PAK2	P21 protein (Cdc42/Rac)-activated kinase 2 [Source:HGNC Symbol;Acc:8591]	
PAK6	P21 protein (Cdc42/Rac)-activated kinase 6 [Source:HGNC Symbol;Acc:16061]	
PAK7	P21 protein (Cdc42/Rac)-activated kinase 7 [Source:HGNC Symbol;Acc:15916]	
PALB2	Partner and localizer of BRCA2	√
PALLD	Palladin, cytoskeletal associated protein [Source:HGNC Symbol;Acc:17068]	

PALM2-AKAP2	PALM2-AKAP2 readthrough [Source:HGNC Symbol;Acc:33529]	
PAMR1	Peptidase domain containing associated with muscle regeneration 1 [Source:HGNC Symbol;Acc:24554]	
PAN2	PAN2 poly(A) specific ribonuclease subunit homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:20074]	
PAN3	PAN3 poly(A) specific ribonuclease subunit homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:29991]	
PANK1	Pantothenate kinase 1 [Source:HGNC Symbol;Acc:8598]	
PANK3	Pantothenate kinase 3 [Source:HGNC Symbol;Acc:19365]	
PANX2	Pannexin 2 [Source:HGNC Symbol;Acc:8600]	
PAPD4	PAP associated domain containing 4 [Source:HGNC Symbol;Acc:26776]	
PAPD5	PAP associated domain containing 5 [Source:HGNC Symbol;Acc:30758]	
PAPD7	PAP associated domain containing 7 [Source:HGNC Symbol;Acc:16705]	
PAPLN	Papilin, proteoglycan-like sulfated glycoprotein [Source:HGNC Symbol;Acc:19262]	
PAPPA	Pregnancy-associated plasma protein A, pappalysin 1 [Source:HGNC Symbol;Acc:8602]	
PAPPA2	Pappalysin 2 [Source:HGNC Symbol;Acc:14615]	
PAQR3	Progestin and adipoq receptor family member III [Source:HGNC Symbol;Acc:30130]	
PAQR5	Progestin and adipoq receptor family member V [Source:HGNC Symbol;Acc:29645]	
PAQR6	Progestin and adipoq receptor family member VI [Source:HGNC Symbol;Acc:30132]	
PAQR8	Progestin and adipoq receptor family member VIII [Source:HGNC Symbol;Acc:15708]	
PARD3B	Par-3 partitioning defective 3 homolog B (C. Elegans) [Source:HGNC Symbol;Acc:14446]	
PARD6B	Par-6 partitioning defective 6 homolog beta (C. Elegans) [Source:HGNC Symbol;Acc:16245]	
PARD6G	Par-6 partitioning defective 6 homolog gamma (C. Elegans) [Source:HGNC Symbol;Acc:16076]	

PARM1	Prostate androgen-regulated mucin-like protein 1 [Source:HGNC Symbol;Acc:24536]	
PARP10	Poly (ADP-ribose) polymerase family, member 10 [Source:HGNC Symbol;Acc:25895]	
PARP11	Poly (ADP-ribose) polymerase family, member 11 [Source:HGNC Symbol;Acc:1186]	
PARP12	Poly (ADP-ribose) polymerase family, member 12 [Source:HGNC Symbol;Acc:21919]	
PARP15	Poly (ADP-ribose) polymerase family, member 15 [Source:HGNC Symbol;Acc:26876]	
PARP2	Poly (ADP-ribose) polymerase 2 [Source:HGNC Symbol;Acc:272]	
PARP8	Poly (ADP-ribose) polymerase family, member 8 [Source:HGNC Symbol;Acc:26124]	
PARS2	Prolyl-trna synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:30563]	
PARVB	Parvin, beta [Source:HGNC Symbol;Acc:14653]	
PASK	PAS domain containing serine/threonine kinase [Source:HGNC Symbol;Acc:17270]	
PATL1	Protein associated with topoisomerase II homolog 1 (yeast) [Source:HGNC Symbol;Acc:26721]	
PAX2	Paired box 2 [Source:HGNC Symbol;Acc:8616]	
PAX4	Paired box 4 [Source:HGNC Symbol;Acc:8618]	
PAX5	Paired box 5	√
PAX6	Paired box 6 [Source:HGNC Symbol;Acc:8620]	
PAX7	Paired box 7	√
PBLD	Phenazine biosynthesis-like protein domain containing [Source:HGNC Symbol;Acc:23301]	
PBRM1	Polybromo 1	√
PBX1	Pre-B-cell leukemia homeobox 1	√
PBX2	Pre-B-cell leukemia homeobox 2 [Source:HGNC Symbol;Acc:8633]	
PC	Pyruvate carboxylase [Source:HGNC Symbol;Acc:8636]	

PCBD2	Pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 [Source:HGNC Symbol;Acc:24474]	
PCBP2	Poly(rc) binding protein 2 [Source:HGNC Symbol;Acc:8648]	
PCBP3	Poly(rc) binding protein 3 [Source:HGNC Symbol;Acc:8651]	
PCCB	Propionyl coa carboxylase, beta polypeptide [Source:HGNC Symbol;Acc:8654]	
PCDH10	Protocadherin 10 [Source:HGNC Symbol;Acc:13404]	
PCDH11X	Protocadherin 11 X-linked [Source:HGNC Symbol;Acc:8656]	
PCDH11Y	Protocadherin 11 Y-linked [Source:HGNC Symbol;Acc:15813]	
PCDH12	Protocadherin 12 [Source:HGNC Symbol;Acc:8657]	
PCDH15	Protocadherin-related 15 [Source:HGNC Symbol;Acc:14674]	
PCDH19	Protocadherin 19 [Source:HGNC Symbol;Acc:14270]	
PCDH8	Protocadherin 8 [Source:HGNC Symbol;Acc:8660]	
PCDH9	Protocadherin 9 [Source:HGNC Symbol;Acc:8661]	
PCDHA1	Protocadherin alpha 1 [Source:HGNC Symbol;Acc:8663]	
PCDHA10	Protocadherin alpha 10 [Source:HGNC Symbol;Acc:8664]	
PCDHA11	Protocadherin alpha 11 [Source:HGNC Symbol;Acc:8665]	
PCDHA12	Protocadherin alpha 12 [Source:HGNC Symbol;Acc:8666]	
PCDHA13	Protocadherin alpha 13 [Source:HGNC Symbol;Acc:8667]	
PCDHA2	Protocadherin alpha 2 [Source:HGNC Symbol;Acc:8668]	
PCDHA3	Protocadherin alpha 3 [Source:HGNC Symbol;Acc:8669]	
PCDHA4	Protocadherin alpha 4 [Source:HGNC Symbol;Acc:8670]	
PCDHA5	Protocadherin alpha 5 [Source:HGNC Symbol;Acc:8671]	
PCDHA6	Protocadherin alpha 6 [Source:HGNC Symbol;Acc:8672]	
PCDHA7	Protocadherin alpha 7 [Source:HGNC Symbol;Acc:8673]	
PCDHA8	Protocadherin alpha 8 [Source:HGNC Symbol;Acc:8674]	
PCDHA9	Protocadherin alpha 9 [Source:HGNC Symbol;Acc:8675]	
PCDHAC1	Protocadherin alpha subfamily C, 1 [Source:HGNC Symbol;Acc:8676]	
PCDHAC2	Protocadherin alpha subfamily C, 2 [Source:HGNC Symbol;Acc:8677]	
PCDHB13	Protocadherin beta 13 [Source:HGNC Symbol;Acc:8684]	
PCDHB15	Protocadherin beta 15 [Source:HGNC Symbol;Acc:8686]	
PCDHB16	Protocadherin beta 16 [Source:HGNC Symbol;Acc:14546]	

PCDHB3	Protocadherin beta 3 [Source:HGNC Symbol;Acc:8688]	
PCDHB4	Protocadherin beta 4 [Source:HGNC Symbol;Acc:8689]	
PCDHB6	Protocadherin beta 6 [Source:HGNC Symbol;Acc:8691]	
PCDHB7	Protocadherin beta 7 [Source:HGNC Symbol;Acc:8692]	
PCDHGA1	Protocadherin gamma subfamily A, 1 [Source:HGNC Symbol;Acc:8696]	
PCDHGA11	Protocadherin gamma subfamily A, 11 [Source:HGNC Symbol;Acc:8698]	
PCDHGA5	Protocadherin gamma subfamily A, 5 [Source:HGNC Symbol;Acc:8703]	
PCDHGA6	Protocadherin gamma subfamily A, 6 [Source:HGNC Symbol;Acc:8704]	
PCDHGA7	Protocadherin gamma subfamily A, 7 [Source:HGNC Symbol;Acc:8705]	
PCDHGC3	Protocadherin gamma subfamily C, 3 [Source:HGNC Symbol;Acc:8716]	
PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:30097]	
PCGF2	Polycomb group ring finger 2 [Source:HGNC Symbol;Acc:12929]	
PCGF3	Polycomb group ring finger 3 [Source:HGNC Symbol;Acc:10066]	
PCNT	Pericentrin [Source:HGNC Symbol;Acc:16068]	
PCNX	Pecanex homolog (Drosophila) [Source:HGNC Symbol;Acc:19740]	
PCSK5	Proprotein convertase subtilisin/kexin type 5 [Source:HGNC Symbol;Acc:8747]	
PCSK6	Proprotein convertase subtilisin/kexin type 6 [Source:HGNC Symbol;Acc:8569]	
PCSK9	Proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:20001]	
PCYOX1	Prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:20588]	
PCYOX1L	Prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:28477]	
PDCD11	Programmed cell death 11 [Source:HGNC Symbol;Acc:13408]	
PDCD5	Programmed cell death 5 [Source:HGNC Symbol;Acc:8764]	
PDCD6IP	Programmed cell death 6 interacting protein [Source:HGNC Symbol;Acc:8766]	
PDCD7	Programmed cell death 7 [Source:HGNC Symbol;Acc:8767]	
PDDC1	Parkinson disease 7 domain containing 1 [Source:HGNC Symbol;Acc:26616]	
PDE1A	Phosphodiesterase 1A, calmodulin-dependent [Source:HGNC Symbol;Acc:8774]	

PDE1B	Phosphodiesterase 1B, calmodulin-dependent [Source:HGNC Symbol;Acc:8775]	
PDE2A	Phosphodiesterase 2A, cgmp-stimulated [Source:HGNC Symbol;Acc:8777]	
PDE4DIP	Phosphodiesterase 4D interacting protein	√
PDE7A	Phosphodiesterase 7A [Source:HGNC Symbol;Acc:8791]	
PDE7B	Phosphodiesterase 7B [Source:HGNC Symbol;Acc:8792]	
PDE8A	Phosphodiesterase 8A [Source:HGNC Symbol;Acc:8793]	
PDE8B	Phosphodiesterase 8B [Source:HGNC Symbol;Acc:8794]	
PDE9A	Phosphodiesterase 9A [Source:HGNC Symbol;Acc:8795]	
PDGFD	Platelet derived growth factor D [Source:HGNC Symbol;Acc:30620]	
PDGFRA	Platelet-derived growth factor receptor, alpha polypeptide	√
PDGFRB	Platelet-derived growth factor receptor, beta polypeptide	√
PDGFRL	Platelet-derived growth factor receptor-like [Source:HGNC Symbol;Acc:8805]	
PDHA2	Pyruvate dehydrogenase (lipoamide) alpha 2 [Source:HGNC Symbol;Acc:8807]	
PDIA6	Protein disulfide isomerase family A, member 6 [Source:HGNC Symbol;Acc:30168]	
PDIK1L	PDLIM1 interacting kinase 1 like [Source:HGNC Symbol;Acc:18981]	
PDILT	Protein disulfide isomerase-like, testis expressed [Source:HGNC Symbol;Acc:27338]	
PDK2	Pyruvate dehydrogenase kinase, isozyme 2 [Source:HGNC Symbol;Acc:8810]	
PDK4	Pyruvate dehydrogenase kinase, isozyme 4 [Source:HGNC Symbol;Acc:8812]	
PDLIM1	PDZ and LIM domain 1 [Source:HGNC Symbol;Acc:2067]	
PDLIM4	PDZ and LIM domain 4 [Source:HGNC Symbol;Acc:16501]	
PDLIM5	PDZ and LIM domain 5 [Source:HGNC Symbol;Acc:17468]	
PDP1	Pyruvate dehyrogenase phosphatase catalytic subunit 1 [Source:HGNC Symbol;Acc:9279]	
PDP2	Pyruvate dehyrogenase phosphatase catalytic subunit 2 [Source:HGNC Symbol;Acc:30263]	

PDPK1	3-phosphoinositide dependent protein kinase-1 [Source:HGNC Symbol;Acc:8816]	
PDPR	Pyruvate dehydrogenase phosphatase regulatory subunit [Source:HGNC Symbol;Acc:30264]	
PDRG1	P53 and DNA-damage regulated 1 [Source:HGNC Symbol;Acc:16119]	
PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. Cerevisiae) [Source:HGNC Symbol;Acc:20418]	
PDSS2	Prenyl (decaprenyl) diphosphate synthase, subunit 2 [Source:HGNC Symbol;Acc:23041]	
PDXDC1	Pyridoxal-dependent decarboxylase domain containing 1 [Source:HGNC Symbol;Acc:28995]	
PDZD2	PDZ domain containing 2 [Source:HGNC Symbol;Acc:18486]	
PDZD3	PDZ domain containing 3 [Source:HGNC Symbol;Acc:19891]	
PDZRN3	PDZ domain containing ring finger 3 [Source:HGNC Symbol;Acc:17704]	
PDZRN4	PDZ domain containing ring finger 4 [Source:HGNC Symbol;Acc:30552]	
PEF1	Penta-EF-hand domain containing 1 [Source:HGNC Symbol;Acc:30009]	
PELI2	Pellino homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:8828]	
PELI3	Pellino homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:30010]	
PEPD	Peptidase D [Source:HGNC Symbol;Acc:8840]	
PER1	Period homolog 1 (Drosophila)	√
PER2	Period homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:8846]	
PER3	Period homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:8847]	
PES1	Pescadillo homolog 1, containing BRCT domain (zebrafish) [Source:HGNC Symbol;Acc:8848]	
PET112L	PET112-like (yeast) [Source:HGNC Symbol;Acc:8849]	
PEX11B	Peroxisomal biogenesis factor 11 beta [Source:HGNC Symbol;Acc:8853]	
PEX12	Peroxisomal biogenesis factor 12 [Source:HGNC Symbol;Acc:8854]	
PEX13	Peroxisomal biogenesis factor 13 [Source:HGNC Symbol;Acc:8855]	
PEX2	Peroxisomal biogenesis factor 2 [Source:HGNC Symbol;Acc:9717]	
PEX5	Peroxisomal biogenesis factor 5 [Source:HGNC Symbol;Acc:9719]	
PEX5L	Peroxisomal biogenesis factor 5-like [Source:HGNC Symbol;Acc:30024]	
PFAS	Phosphoribosylformylglycinamidine synthase [Source:HGNC Symbol;Acc:8863]	

PFDN2	Prefoldin subunit 2 [Source:HGNC Symbol;Acc:8867]	
PFDN4	Prefoldin subunit 4 [Source:HGNC Symbol;Acc:8868]	
PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 [Source:HGNC Symbol;Acc:8873]	
PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:HGNC Symbol;Acc:8875]	
PFKM	Phosphofructokinase, muscle [Source:HGNC Symbol;Acc:8877]	
PGAP2	Post-GPI attachment to proteins 2 [Source:HGNC Symbol;Acc:17893]	
PGAP3	Post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:23719]	
PGBD5	Piggybac transposable element derived 5 [Source:HGNC Symbol;Acc:19405]	
PGD	Phosphogluconate dehydrogenase [Source:HGNC Symbol;Acc:8891]	
PGK1	Phosphoglycerate kinase 1 [Source:HGNC Symbol;Acc:8896]	
PGK2	Phosphoglycerate kinase 2 [Source:HGNC Symbol;Acc:8898]	
PGM1	Phosphoglucomutase 1 [Source:HGNC Symbol;Acc:8905]	
PGM2	Phosphoglucomutase 2 [Source:HGNC Symbol;Acc:8906]	
PGR	Progesterone receptor [Source:HGNC Symbol;Acc:8910]	
PGRMC1	Progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:16090]	
PGRMC2	Progesterone receptor membrane component 2 [Source:HGNC Symbol;Acc:16089]	
PGS1	Phosphatidylglycerophosphate synthase 1 [Source:HGNC Symbol;Acc:30029]	
PHACTR1	Phosphatase and actin regulator 1 [Source:HGNC Symbol;Acc:20990]	
PHACTR4	Phosphatase and actin regulator 4 [Source:HGNC Symbol;Acc:25793]	
PHC2	Polyhomeotic homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:3183]	
PHF1	PHD finger protein 1 [Source:HGNC Symbol;Acc:8919]	
PHF10	PHD finger protein 10 [Source:HGNC Symbol;Acc:18250]	
PHF12	PHD finger protein 12 [Source:HGNC Symbol;Acc:20816]	
PHF14	PHD finger protein 14 [Source:HGNC Symbol;Acc:22203]	
PHF15	PHD finger protein 15 [Source:HGNC Symbol;Acc:22984]	
PHF16	PHD finger protein 16 [Source:HGNC Symbol;Acc:22982]	
PHF2	PHD finger protein 2 [Source:HGNC Symbol;Acc:8920]	

PHF20	PHD finger protein 20 [Source:HGNC Symbol;Acc:16098]	
PHF20L1	PHD finger protein 20-like 1 [Source:HGNC Symbol;Acc:24280]	
PHF21A	PHD finger protein 21A [Source:HGNC Symbol;Acc:24156]	
PHF6	PHD finger protein 6	√
PHF7	PHD finger protein 7 [Source:HGNC Symbol;Acc:18458]	
PHF8	PHD finger protein 8 [Source:HGNC Symbol;Acc:20672]	
PHIP	Pleckstrin homology domain interacting protein [Source:HGNC Symbol;Acc:15673]	
PHKA2	Phosphorylase kinase, alpha 2 (liver) [Source:HGNC Symbol;Acc:8926]	
PHKG2	Phosphorylase kinase, gamma 2 (testis) [Source:HGNC Symbol;Acc:8931]	
PHLDA1	Pleckstrin homology-like domain, family A, member 1 [Source:HGNC Symbol;Acc:8933]	
PHLDB1	Pleckstrin homology-like domain, family B, member 1 [Source:HGNC Symbol;Acc:23697]	
PHLDB2	Pleckstrin homology-like domain, family B, member 2 [Source:HGNC Symbol;Acc:29573]	
PHLPP1	PH domain and leucine rich repeat protein phosphatase 1 [Source:HGNC Symbol;Acc:20610]	
PHLPP2	PH domain and leucine rich repeat protein phosphatase 2 [Source:HGNC Symbol;Acc:29149]	
PHOX2B	Paired-like homeobox 2b	√
PHRF1	PHD and ring finger domains 1 [Source:HGNC Symbol;Acc:24351]	
PHTF2	Putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:13411]	
PHYHD1	Phytanoyl-coa dioxygenase domain containing 1 [Source:HGNC Symbol;Acc:23396]	
PI15	Peptidase inhibitor 15 [Source:HGNC Symbol;Acc:8946]	
PI4K2A	Phosphatidylinositol 4-kinase type 2 alpha [Source:HGNC Symbol;Acc:30031]	
PI4K2B	Phosphatidylinositol 4-kinase type 2 beta [Source:HGNC Symbol;Acc:18215]	
PI4KA	Phosphatidylinositol 4-kinase, catalytic, alpha [Source:HGNC Symbol;Acc:8983]	

PI4KB	Phosphatidylinositol 4-kinase, catalytic, beta [Source:HGNC Symbol;Acc:8984]	
PIGA	Phosphatidylinositol glycan anchor biosynthesis, class A [Source:HGNC Symbol;Acc:8957]	
PIGC	Phosphatidylinositol glycan anchor biosynthesis, class C [Source:HGNC Symbol;Acc:8960]	
PIGF	Phosphatidylinositol glycan anchor biosynthesis, class F [Source:HGNC Symbol;Acc:8962]	
PIGL	Phosphatidylinositol glycan anchor biosynthesis, class L [Source:HGNC Symbol;Acc:8966]	
PIGM	Phosphatidylinositol glycan anchor biosynthesis, class M [Source:HGNC Symbol;Acc:18858]	
PIGP	Phosphatidylinositol glycan anchor biosynthesis, class P [Source:HGNC Symbol;Acc:3046]	
PIGQ	Phosphatidylinositol glycan anchor biosynthesis, class Q [Source:HGNC Symbol;Acc:14135]	
PIGZ	Phosphatidylinositol glycan anchor biosynthesis, class Z [Source:HGNC Symbol;Acc:30596]	
PIK3C2B	Phosphoinositide-3-kinase, class 2, beta polypeptide [Source:HGNC Symbol;Acc:8972]	
PIK3CA	Phosphoinositide-3-kinase, catalytic, alpha polypeptide	√
PIK3CG	Phosphoinositide-3-kinase, catalytic, gamma polypeptide [Source:HGNC Symbol;Acc:8978]	
PIK3IP1	Phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:24942]	
PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	√
PIK3R3	Phosphoinositide-3-kinase, regulatory subunit 3 (gamma) [Source:HGNC Symbol;Acc:8981]	
PIK3R4	Phosphoinositide-3-kinase, regulatory subunit 4 [Source:HGNC Symbol;Acc:8982]	
PIKFYVE	Phosphoinositide kinase, FYVE finger containing [Source:HGNC Symbol;Acc:23785]	

PINX1	PIN2/TERF1 interacting, telomerase inhibitor 1 [Source:HGNC Symbol;Acc:30046]	
PION	Pigeon homolog (Drosophila) [Source:HGNC Symbol;Acc:28042]	
PIP4K2A	Phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Source:HGNC Symbol;Acc:8997]	
PIP5K1C	Phosphatidylinositol-4-phosphate 5-kinase, type I, gamma [Source:HGNC Symbol;Acc:8996]	
PITPNB	Phosphatidylinositol transfer protein, beta [Source:HGNC Symbol;Acc:9002]	
PITPNM1	Phosphatidylinositol transfer protein, membrane-associated 1 [Source:HGNC Symbol;Acc:9003]	
PITPNM2	Phosphatidylinositol transfer protein, membrane-associated 2 [Source:HGNC Symbol;Acc:21044]	
PITRM1	Pitrilysin metallopeptidase 1 [Source:HGNC Symbol;Acc:17663]	
PIWIL2	Piwi-like 2 (Drosophila) [Source:HGNC Symbol;Acc:17644]	
PIWIL3	Piwi-like 3 (Drosophila) [Source:HGNC Symbol;Acc:18443]	
PIWIL4	Piwi-like 4 (Drosophila) [Source:HGNC Symbol;Acc:18444]	
PKD1	Polycystic kidney disease 1 (autosomal dominant) [Source:HGNC Symbol;Acc:9008]	
PKD1L2	Polycystic kidney disease 1-like 2 [Source:HGNC Symbol;Acc:21715]	
PKD2	Polycystic kidney disease 2 (autosomal dominant) [Source:HGNC Symbol;Acc:9009]	
PKDREJ	Polycystic kidney disease (polycystin) and REJ homolog (sperm receptor for egg jelly homolog, sea urchin) [Source:HGNC Symbol;Acc:9015]	
PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive) [Source:HGNC Symbol;Acc:9016]	
PKHD1L1	Polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1 [Source:HGNC Symbol;Acc:20313]	
PKLR	Pyruvate kinase, liver and RBC [Source:HGNC Symbol;Acc:9020]	
PKN1	Protein kinase N1 [Source:HGNC Symbol;Acc:9405]	
PKNOX2	PBX/knotted 1 homeobox 2 [Source:HGNC Symbol;Acc:16714]	
PLA2G15	Phospholipase A2, group XV [Source:HGNC Symbol;Acc:17163]	
PLA2G16	Phospholipase A2, group XVI [Source:HGNC Symbol;Acc:17825]	

PLA2G2C	Phospholipase A2, group IIC [Source:HGNC Symbol;Acc:9032]	
PLA2G4A	Phospholipase A2, group IVA (cytosolic, calcium-dependent) [Source:HGNC Symbol;Acc:9035]	
PLA2G4B	Phospholipase A2, group IVB (cytosolic) [Source:HGNC Symbol;Acc:9036]	
PLA2G4D	Phospholipase A2, group IVD (cytosolic) [Source:HGNC Symbol;Acc:30038]	
PLA2G4F	Phospholipase A2, group IVF [Source:HGNC Symbol;Acc:27396]	
PLA2G6	Phospholipase A2, group VI (cytosolic, calcium-independent) [Source:HGNC Symbol;Acc:9039]	
PLA2R1	Phospholipase A2 receptor 1, 180kda [Source:HGNC Symbol;Acc:9042]	
PLAA	Phospholipase A2-activating protein [Source:HGNC Symbol;Acc:9043]	
PLAG1	Pleiomorphic adenoma gene 1	√
PLAGL1	Pleiomorphic adenoma gene-like 1 [Source:HGNC Symbol;Acc:9046]	
PLAU	Plasminogen activator, urokinase [Source:HGNC Symbol;Acc:9052]	
PLB1	Phospholipase B1 [Source:HGNC Symbol;Acc:30041]	
PLBD2	Phospholipase B domain containing 2 [Source:HGNC Symbol;Acc:27283]	
PLCB1	Phospholipase C, beta 1 (phosphoinositide-specific) [Source:HGNC Symbol;Acc:15917]	
PLCB3	Phospholipase C, beta 3 (phosphatidylinositol-specific) [Source:HGNC Symbol;Acc:9056]	
PLCG1	Phospholipase C, gamma 1 [Source:HGNC Symbol;Acc:9065]	
PLCG2	Phospholipase C, gamma 2 (phosphatidylinositol-specific) [Source:HGNC Symbol;Acc:9066]	
PLCH1	Phospholipase C, eta 1 [Source:HGNC Symbol;Acc:29185]	
PLCL1	Phospholipase C-like 1 [Source:HGNC Symbol;Acc:9063]	
PLCXD1	Phosphatidylinositol-specific phospholipase C, X domain containing 1 [Source:HGNC Symbol;Acc:23148]	
PLD5	Phospholipase D family, member 5 [Source:HGNC Symbol;Acc:26879]	
PLEC	Plectin [Source:HGNC Symbol;Acc:9069]	
PLEK2	Pleckstrin 2 [Source:HGNC Symbol;Acc:19238]	
PLEKHA1	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 [Source:HGNC Symbol;Acc:14335]	

PLEKHA3	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3 [Source:HGNC Symbol;Acc:14338]	
PLEKHA7	Pleckstrin homology domain containing, family A member 7 [Source:HGNC Symbol;Acc:27049]	
PLEKHB2	Pleckstrin homology domain containing, family B (evectins) member 2 [Source:HGNC Symbol;Acc:19236]	
PLEKHG2	Pleckstrin homology domain containing, family G (with rhogef domain) member 2 [Source:HGNC Symbol;Acc:29515]	
PLEKHG4	Pleckstrin homology domain containing, family G (with rhogef domain) member 4 [Source:HGNC Symbol;Acc:24501]	
PLEKHG4B	Pleckstrin homology domain containing, family G (with rhogef domain) member 4B [Source:HGNC Symbol;Acc:29399]	
PLEKHM1	Pleckstrin homology domain containing, family M (with RUN domain) member 1 [Source:HGNC Symbol;Acc:29017]	
PLEKHM3	Pleckstrin homology domain containing, family M, member 3 [Source:HGNC Symbol;Acc:34006]	
PLEKHO2	Pleckstrin homology domain containing, family O member 2 [Source:HGNC Symbol;Acc:30026]	
PLG	Plasminogen [Source:HGNC Symbol;Acc:9071]	
PLIN1	Perilipin 1 [Source:HGNC Symbol;Acc:9076]	
PLIN3	Perilipin 3 [Source:HGNC Symbol;Acc:16893]	
PLIN4	Perilipin 4 [Source:HGNC Symbol;Acc:29393]	
PLIN5	Perilipin 5 [Source:HGNC Symbol;Acc:33196]	
PLK4	Polo-like kinase 4 [Source:HGNC Symbol;Acc:11397]	
PLOD2	Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:9082]	
PLS3	Plastin 3 [Source:HGNC Symbol;Acc:9091]	
PLSCR1	Phospholipid scramblase 1 [Source:HGNC Symbol;Acc:9092]	
PLVAP	Plasmalemma vesicle associated protein [Source:HGNC Symbol;Acc:13635]	
PLXDC2	Plexin domain containing 2 [Source:HGNC Symbol;Acc:21013]	
PLXNA2	Plexin A2 [Source:HGNC Symbol;Acc:9100]	
PLXNA3	Plexin A3 [Source:HGNC Symbol;Acc:9101]	
PLXNA4	Plexin A4 [Source:HGNC Symbol;Acc:9102]	

PLXNB1	Plexin B1 [Source:HGNC Symbol;Acc:9103]	
PLXNB2	Plexin B2 [Source:HGNC Symbol;Acc:9104]	
PLXNC1	Plexin C1 [Source:HGNC Symbol;Acc:9106]	
PLXND1	Plexin D1 [Source:HGNC Symbol;Acc:9107]	
PM20D2	Peptidase M20 domain containing 2 [Source:HGNC Symbol;Acc:21408]	
PMFBP1	Polyamine modulated factor 1 binding protein 1 [Source:HGNC Symbol;Acc:17728]	
PML	Promyelocytic leukemia	√
PMM1	Phosphomannomutase 1 [Source:HGNC Symbol;Acc:9114]	
PMM2	Phosphomannomutase 2 [Source:HGNC Symbol;Acc:9115]	
PMPCB	Peptidase (mitochondrial processing) beta [Source:HGNC Symbol;Acc:9119]	
PNLDC1	Poly(A)-specific ribonuclease (PARN)-like domain containing 1 [Source:HGNC Symbol;Acc:21185]	
PNLIPRP3	Pancreatic lipase-related protein 3 [Source:HGNC Symbol;Acc:23492]	
PNMA3	Paraneoplastic antigen MA3 [Source:HGNC Symbol;Acc:18742]	
PNMA5	Paraneoplastic antigen like 5 [Source:HGNC Symbol;Acc:18743]	
PNN	Pinin, desmosome associated protein [Source:HGNC Symbol;Acc:9162]	
PNO1	Partner of NOB1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:32790]	
PNPLA1	Patatin-like phospholipase domain containing 1 [Source:HGNC Symbol;Acc:21246]	
PNPLA2	Patatin-like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:30802]	
PNPLA3	Patatin-like phospholipase domain containing 3 [Source:HGNC Symbol;Acc:18590]	
PNPLA6	Patatin-like phospholipase domain containing 6 [Source:HGNC Symbol;Acc:16268]	
PNRC1	Proline-rich nuclear receptor coactivator 1 [Source:HGNC Symbol;Acc:17278]	
POC1A	POC1 centriolar protein homolog A (Chlamydomonas) [Source:HGNC Symbol;Acc:24488]	

POC1B	POC1 centriolar protein homolog B (Chlamydomonas) [Source:HGNC Symbol;Acc:30836]	
PODNL1	Podocan-like 1 [Source:HGNC Symbol;Acc:26275]	
POFUT2	Protein O-fucosyltransferase 2 [Source:HGNC Symbol;Acc:14683]	
POGK	Pogo transposable element with KRAB domain [Source:HGNC Symbol;Acc:18800]	
POGLUT1	Protein O-glucosyltransferase 1 [Source:HGNC Symbol;Acc:22954]	
POGZ	Pogo transposable element with ZNF domain [Source:HGNC Symbol;Acc:18801]	
POLB	Polymerase (DNA directed), beta [Source:HGNC Symbol;Acc:9174]	
POLG	Polymerase (DNA directed), gamma [Source:HGNC Symbol;Acc:9179]	
POLH	Polymerase (DNA directed), eta [Source:HGNC Symbol;Acc:9181]	
POLK	Polymerase (DNA directed) kappa [Source:HGNC Symbol;Acc:9183]	
POLL	Polymerase (DNA directed), lambda [Source:HGNC Symbol;Acc:9184]	
POLN	Polymerase (DNA directed) nu [Source:HGNC Symbol;Acc:18870]	
POLR1B	Polymerase (RNA) I polypeptide B, 128kda [Source:HGNC Symbol;Acc:20454]	
POLR2B	Polymerase (RNA) II (DNA directed) polypeptide B, 140kda [Source:HGNC Symbol;Acc:9188]	
POLR2C	Polymerase (RNA) II (DNA directed) polypeptide C, 33kda [Source:HGNC Symbol;Acc:9189]	
POLR2D	Polymerase (RNA) II (DNA directed) polypeptide D [Source:HGNC Symbol;Acc:9191]	
POLR2E	Polymerase (RNA) II (DNA directed) polypeptide E, 25kda [Source:HGNC Symbol;Acc:9192]	
POLR2F	Polymerase (RNA) II (DNA directed) polypeptide F [Source:HGNC Symbol;Acc:9193]	
POLR3C	Polymerase (RNA) III (DNA directed) polypeptide C (62kd) [Source:HGNC Symbol;Acc:30076]	
POLR3D	Polymerase (RNA) III (DNA directed) polypeptide D, 44kda [Source:HGNC Symbol;Acc:1080]	
POLR3F	Polymerase (RNA) III (DNA directed) polypeptide F, 39 kda [Source:HGNC Symbol;Acc:15763]	

POLRMT	Polymerase (RNA) mitochondrial (DNA directed) [Source:HGNC Symbol;Acc:9200]	
POM121C	POM121 membrane glycoprotein C [Source:HGNC Symbol;Acc:34005]	
POM121L2	POM121 membrane glycoprotein-like 2 [Source:HGNC Symbol;Acc:13973]	
POMT1	Protein-O-mannosyltransferase 1 [Source:HGNC Symbol;Acc:9202]	
POMT2	Protein-O-mannosyltransferase 2 [Source:HGNC Symbol;Acc:19743]	
PON2	Paraoxonase 2 [Source:HGNC Symbol;Acc:9205]	
POP5	Processing of precursor 5, ribonuclease P/MRP subunit (S. Cerevisiae) [Source:HGNC Symbol;Acc:17689]	
POPDC2	Popeye domain containing 2 [Source:HGNC Symbol;Acc:17648]	
POU2AF1	POU class 2 associating factor 1	√
POU2F1	POU class 2 homeobox 1 [Source:HGNC Symbol;Acc:9212]	
POU3F2	POU class 3 homeobox 2 [Source:HGNC Symbol;Acc:9215]	
POU4F3	POU class 4 homeobox 3 [Source:HGNC Symbol;Acc:9220]	
POU6F1	POU class 6 homeobox 1 [Source:HGNC Symbol;Acc:9224]	
POU6F2	POU class 6 homeobox 2 [Source:HGNC Symbol;Acc:21694]	
PPAP2B	Phosphatidic acid phosphatase type 2B [Source:HGNC Symbol;Acc:9229]	
PPARA	Peroxisome proliferator-activated receptor alpha [Source:HGNC Symbol;Acc:9232]	
PPARD	Peroxisome proliferator-activated receptor delta [Source:HGNC Symbol;Acc:9235]	
PPARG	Peroxisome proliferator-activated receptor gamma	√
PPARGC1A	Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha [Source:HGNC Symbol;Acc:9237]	
PPARGC1B	Peroxisome proliferator-activated receptor gamma, coactivator 1 beta [Source:HGNC Symbol;Acc:30022]	
PPCDC	Phosphopantothenoylcysteine decarboxylase [Source:HGNC Symbol;Acc:28107]	
PPFIA2	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2 [Source:HGNC Symbol;Acc:9246]	
PPFIA3	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3 [Source:HGNC Symbol;Acc:9247]	

PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin beta 2) [Source:HGNC Symbol;Acc:9250]	
PPIA	Peptidylprolyl isomerase A (cyclophilin A) [Source:HGNC Symbol;Acc:9253]	
PPIG	Peptidylprolyl isomerase G (cyclophilin G) [Source:HGNC Symbol;Acc:14650]	
PPIH	Peptidylprolyl isomerase H (cyclophilin H) [Source:HGNC Symbol;Acc:14651]	
PPIL2	Peptidylprolyl isomerase (cyclophilin)-like 2 [Source:HGNC Symbol;Acc:9261]	
PPIP5K2	Diphosphoinositol pentakisphosphate kinase 2 [Source:HGNC Symbol;Acc:29035]	
PPL	Periplakin [Source:HGNC Symbol;Acc:9273]	
PPM1B	Protein phosphatase, Mg2+/Mn2+ dependent, 1B [Source:HGNC Symbol;Acc:9276]	
PPM1E	Protein phosphatase, Mg2+/Mn2+ dependent, 1E [Source:HGNC Symbol;Acc:19322]	
PPM1F	Protein phosphatase, Mg2+/Mn2+ dependent, 1F [Source:HGNC Symbol;Acc:19388]	
PPM1J	Protein phosphatase, Mg2+/Mn2+ dependent, 1J [Source:HGNC Symbol;Acc:20785]	
PPM1L	Protein phosphatase, Mg2+/Mn2+ dependent, 1L [Source:HGNC Symbol;Acc:16381]	
PPM1M	Protein phosphatase, Mg2+/Mn2+ dependent, 1M [Source:HGNC Symbol;Acc:26506]	
PPOX	Protoporphyrinogen oxidase [Source:HGNC Symbol;Acc:9280]	
PPP1R11	Protein phosphatase 1, regulatory (inhibitor) subunit 11 [Source:HGNC Symbol;Acc:9285]	
PPP1R12A	Protein phosphatase 1, regulatory (inhibitor) subunit 12A [Source:HGNC Symbol;Acc:7618]	
PPP1R12C	Protein phosphatase 1, regulatory (inhibitor) subunit 12C [Source:HGNC Symbol;Acc:14947]	

PPP1R13B	Protein phosphatase 1, regulatory (inhibitor) subunit 13B [Source:HGNC Symbol;Acc:14950]	
PPP1R14C	Protein phosphatase 1, regulatory (inhibitor) subunit 14C [Source:HGNC Symbol;Acc:14952]	
PPP1R15A	Protein phosphatase 1, regulatory (inhibitor) subunit 15A [Source:HGNC Symbol;Acc:14375]	
PPP1R15B	Protein phosphatase 1, regulatory (inhibitor) subunit 15B [Source:HGNC Symbol;Acc:14951]	
PPP1R16B	Protein phosphatase 1, regulatory (inhibitor) subunit 16B [Source:HGNC Symbol;Acc:15850]	
PPP1R1C	Protein phosphatase 1, regulatory (inhibitor) subunit 1C [Source:HGNC Symbol;Acc:14940]	
PPP1R2	Protein phosphatase 1, regulatory (inhibitor) subunit 2 [Source:HGNC Symbol;Acc:9288]	
PPP1R3A	Protein phosphatase 1, regulatory (inhibitor) subunit 3A [Source:HGNC Symbol;Acc:9291]	
PPP1R3B	Protein phosphatase 1, regulatory (inhibitor) subunit 3B [Source:HGNC Symbol;Acc:14942]	
PPP1R3F	Protein phosphatase 1, regulatory (inhibitor) subunit 3F [Source:HGNC Symbol;Acc:14944]	
PPP1R9A	Protein phosphatase 1, regulatory (inhibitor) subunit 9A [Source:HGNC Symbol;Acc:14946]	
PPP2CA	Protein phosphatase 2, catalytic subunit, alpha isozyme [Source:HGNC Symbol;Acc:9299]	
PPP2R1B	Protein phosphatase 2, regulatory subunit A, beta [Source:HGNC Symbol;Acc:9303]	
PPP2R2A	Protein phosphatase 2, regulatory subunit B, alpha [Source:HGNC Symbol;Acc:9304]	
PPP2R2D	Protein phosphatase 2, regulatory subunit B, delta [Source:HGNC Symbol;Acc:23732]	
PPP2R3A	Protein phosphatase 2, regulatory subunit B", alpha [Source:HGNC Symbol;Acc:9307]	

PPP2R3B	Protein phosphatase 2, regulatory subunit B", beta [Source:HGNC Symbol;Acc:13417]	
PPP2R4	Protein phosphatase 2A activator, regulatory subunit 4 [Source:HGNC Symbol;Acc:9308]	
PPP2R5C	Protein phosphatase 2, regulatory subunit B', gamma [Source:HGNC Symbol;Acc:9311]	
PPP3CA	Protein phosphatase 3, catalytic subunit, alpha isozyme [Source:HGNC Symbol;Acc:9314]	
PPP3CB	Protein phosphatase 3, catalytic subunit, beta isozyme [Source:HGNC Symbol;Acc:9315]	
PPP3R1	Protein phosphatase 3, regulatory subunit B, alpha [Source:HGNC Symbol;Acc:9317]	
PPP4R2	Protein phosphatase 4, regulatory subunit 2 [Source:HGNC Symbol;Acc:18296]	
PPP6C	Protein phosphatase 6, catalytic subunit [Source:HGNC Symbol;Acc:9323]	
PPP6R2	Protein phosphatase 6, regulatory subunit 2 [Source:HGNC Symbol;Acc:19253]	
PPT1	Palmitoyl-protein thioesterase 1 [Source:HGNC Symbol;Acc:9325]	
PQLC1	PQ loop repeat containing 1 [Source:HGNC Symbol;Acc:26188]	
PQLC2	PQ loop repeat containing 2 [Source:HGNC Symbol;Acc:26001]	
PRAME	Preferentially expressed antigen in melanoma [Source:HGNC Symbol;Acc:9336]	
PRAMEF1	PRAME family member 1 [Source:HGNC Symbol;Acc:28840]	
PRAMEF10	PRAME family member 10 [Source:HGNC Symbol;Acc:27997]	
PRAMEF13	PRAME family member 13 [Source:HGNC Symbol;Acc:13262]	
PRAMEF14	PRAME family member 14 [Source:HGNC Symbol;Acc:13576]	
PRAMEF16	PRAME family member 16 [Source:HGNC Symbol;Acc:25767]	
PRAMEF17	PRAME family member 17 [Source:HGNC Symbol;Acc:29485]	
PRAMEF18	PRAME family member 18 [Source:HGNC Symbol;Acc:30693]	
PRAMEF19	PRAME family member 19 [Source:HGNC Symbol;Acc:24908]	
PRAMEF2	PRAME family member 2 [Source:HGNC Symbol;Acc:28841]	
PRAMEF22	PRAME family member 22 [Source:HGNC Symbol;Acc:34393]	
PRAMEF3	PRAME family member 3 [Source:HGNC Symbol;Acc:14087]	

PRC1	Protein regulator of cytokinesis 1 [Source:HGNC Symbol;Acc:9341]	
PRCD	Progressive rod-cone degeneration [Source:HGNC Symbol;Acc:32528]	
PRDM1	PR domain containing 1, with ZNF domain	√
PRDM10	PR domain containing 10 [Source:HGNC Symbol;Acc:13995]	
PRDM12	PR domain containing 12 [Source:HGNC Symbol;Acc:13997]	
PRDM15	PR domain containing 15 [Source:HGNC Symbol;Acc:13999]	
PRDM16	PR domain containing 16	√
PRDM5	PR domain containing 5 [Source:HGNC Symbol;Acc:9349]	
PRDM7	PR domain containing 7 [Source:HGNC Symbol;Acc:9351]	
PRDX2	Peroxiredoxin 2 [Source:HGNC Symbol;Acc:9353]	
PRDX3	Peroxiredoxin 3 [Source:HGNC Symbol;Acc:9354]	
PRDX5	Peroxiredoxin 5 [Source:HGNC Symbol;Acc:9355]	
PREB	Prolactin regulatory element binding [Source:HGNC Symbol;Acc:9356]	
PRELID2	PRELI domain containing 2 [Source:HGNC Symbol;Acc:28306]	
PREP	Prolyl endopeptidase [Source:HGNC Symbol;Acc:9358]	
PREPL	Prolyl endopeptidase-like [Source:HGNC Symbol;Acc:30228]	
PREX1	Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1 [Source:HGNC Symbol;Acc:32594]	
PREX2	Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2 [Source:HGNC Symbol;Acc:22950]	
PRICKLE1	Prickle homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:17019]	
PRICKLE2	Prickle homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:20340]	
PRICKLE3	Prickle homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:6645]	
PRICKLE4	Prickle homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:16805]	
PRIMA1	Proline rich membrane anchor 1 [Source:HGNC Symbol;Acc:18319]	
PRKAA2	Protein kinase, AMP-activated, alpha 2 catalytic subunit [Source:HGNC Symbol;Acc:9377]	
PRKAG1	Protein kinase, AMP-activated, gamma 1 non-catalytic subunit [Source:HGNC Symbol;Acc:9385]	
PRKAG2	Protein kinase, AMP-activated, gamma 2 non-catalytic subunit [Source:HGNC Symbol;Acc:9386]	
PRKCA	Protein kinase C, alpha [Source:HGNC Symbol;Acc:9393]	
PRKCB	Protein kinase C, beta [Source:HGNC Symbol;Acc:9395]	

PRKCD	Protein kinase C, delta [Source:HGNC Symbol;Acc:9399]	
PRKCE	Protein kinase C, epsilon [Source:HGNC Symbol;Acc:9401]	
PRKCH	Protein kinase C, eta [Source:HGNC Symbol;Acc:9403]	
PRKD2	Protein kinase D2 [Source:HGNC Symbol;Acc:17293]	
PRKD3	Protein kinase D3 [Source:HGNC Symbol;Acc:9408]	
PRKDC	Protein kinase, DNA-activated, catalytic polypeptide [Source:HGNC Symbol;Acc:9413]	
PRKG1	Protein kinase, cgmp-dependent, type I [Source:HGNC Symbol;Acc:9414]	
PRKRIP1	PRKR interacting protein 1 (IL11 inducible) [Source:HGNC Symbol;Acc:21894]	
PRLR	Prolactin receptor [Source:HGNC Symbol;Acc:9446]	
PRMT1	Protein arginine methyltransferase 1 [Source:HGNC Symbol;Acc:5187]	
PRMT5	Protein arginine methyltransferase 5 [Source:HGNC Symbol;Acc:10894]	
PRMT6	Protein arginine methyltransferase 6 [Source:HGNC Symbol;Acc:18241]	
PRMT7	Protein arginine methyltransferase 7 [Source:HGNC Symbol;Acc:25557]	
PRMT8	Protein arginine methyltransferase 8 [Source:HGNC Symbol;Acc:5188]	
PRND	Prion protein 2 (dublet) [Source:HGNC Symbol;Acc:15748]	
PRNP	Prion protein [Source:HGNC Symbol;Acc:9449]	
PRNT	Prion protein (testis specific) [Source:HGNC Symbol;Acc:18046]	
PROCR	Protein C receptor, endothelial [Source:HGNC Symbol;Acc:9452]	
PRODH	Proline dehydrogenase (oxidase) 1 [Source:HGNC Symbol;Acc:9453]	
PROM1	Prominin 1 [Source:HGNC Symbol;Acc:9454]	
PROM2	Prominin 2 [Source:HGNC Symbol;Acc:20685]	
PROX2	Prospero homeobox 2 [Source:HGNC Symbol;Acc:26715]	
PROZ	Protein Z, vitamin K-dependent plasma glycoprotein [Source:HGNC Symbol;Acc:9460]	
PRPF4	PRP4 pre-mrna processing factor 4 homolog (yeast) [Source:HGNC Symbol;Acc:17349]	
PRPF40A	PRP40 pre-mrna processing factor 40 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:16463]	
PRPF4B	PRP4 pre-mrna processing factor 4 homolog B (yeast) [Source:HGNC Symbol;Acc:17346]	

PRPF6	PRP6 pre-mrna processing factor 6 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:15860]	
PRPF8	PRP8 pre-mrna processing factor 8 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:17340]	
PRPH2	Peripherin 2 (retinal degeneration, slow) [Source:HGNC Symbol;Acc:9942]	
PRPS1	Phosphoribosyl pyrophosphate synthetase 1 [Source:HGNC Symbol;Acc:9462]	
PRPS2	Phosphoribosyl pyrophosphate synthetase 2 [Source:HGNC Symbol;Acc:9465]	
PRPSAP2	Phosphoribosyl pyrophosphate synthetase-associated protein 2 [Source:HGNC Symbol;Acc:9467]	
PRR12	Proline rich 12 [Source:HGNC Symbol;Acc:29217]	
PRR14L	Proline rich 14-like [Source:HGNC Symbol;Acc:28738]	
PRR18	Proline rich 18 [Source:HGNC Symbol;Acc:28574]	
PRR25	Proline rich 25 [Source:HGNC Symbol;Acc:37230]	
PRR5	Proline rich 5 (renal) [Source:HGNC Symbol;Acc:31682]	
PRR5L	Proline rich 5 like [Source:HGNC Symbol;Acc:25878]	
PRR7	Proline rich 7 (synaptic) [Source:HGNC Symbol;Acc:28130]	
PRRC1	Proline-rich coiled-coil 1 [Source:HGNC Symbol;Acc:28164]	
PRRC2B	Proline-rich coiled-coil 2B [Source:HGNC Symbol;Acc:28121]	
PRRG3	Proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane) [Source:HGNC Symbol;Acc:30798]	
PRRG4	Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane) [Source:HGNC Symbol;Acc:30799]	
PRSS12	Protease, serine, 12 (neurotrypsin, motopsin) [Source:HGNC Symbol;Acc:9477]	
PRSS16	Protease, serine, 16 (thymus) [Source:HGNC Symbol;Acc:9480]	
PRSS23	Protease, serine, 23 [Source:HGNC Symbol;Acc:14370]	
PRSS3	Protease, serine, 3 [Source:HGNC Symbol;Acc:9486]	
PRSS42	Protease, serine, 42 [Source:HGNC Symbol;Acc:30716]	
PRSS45	Protease, serine, 45 [Source:HGNC Symbol;Acc:30717]	
PRSS54	Protease, serine, 54 [Source:HGNC Symbol;Acc:26336]	
PRSS55	Protease, serine, 55 [Source:HGNC Symbol;Acc:30824]	

PRTFDC1	Phosphoribosyl transferase domain containing 1 [Source:HGNC Symbol;Acc:23333]	
PRTG	Protogenin [Source:HGNC Symbol;Acc:26373]	
PRUNE2	Prune homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:25209]	
PRX	Periaxin [Source:HGNC Symbol;Acc:13797]	
PSAP	Prosaposin [Source:HGNC Symbol;Acc:9498]	
PSAPL1	Prosaposin-like 1 (gene/pseudogene) [Source:HGNC Symbol;Acc:33131]	
PSAT1	Phosphoserine aminotransferase 1 [Source:HGNC Symbol;Acc:19129]	
PSCA	Prostate stem cell antigen [Source:HGNC Symbol;Acc:9500]	
PSD2	Pleckstrin and Sec7 domain containing 2 [Source:HGNC Symbol;Acc:19092]	
PSD3	Pleckstrin and Sec7 domain containing 3 [Source:HGNC Symbol;Acc:19093]	
PSG1	Pregnancy specific beta-1-glycoprotein 1 [Source:HGNC Symbol;Acc:9514]	
PSG11	Pregnancy specific beta-1-glycoprotein 11 [Source:HGNC Symbol;Acc:9516]	
PSG3	Pregnancy specific beta-1-glycoprotein 3 [Source:HGNC Symbol;Acc:9520]	
PSG9	Pregnancy specific beta-1-glycoprotein 9 [Source:HGNC Symbol;Acc:9526]	
PSKH1	Protein serine kinase H1 [Source:HGNC Symbol;Acc:9529]	
PSMA4	Proteasome (prosome, macropain) subunit, alpha type, 4 [Source:HGNC Symbol;Acc:9533]	
PSMA5	Proteasome (prosome, macropain) subunit, alpha type, 5 [Source:HGNC Symbol;Acc:9534]	
PSMA8	Proteasome (prosome, macropain) subunit, alpha type, 8 [Source:HGNC Symbol;Acc:22985]	
PSMB9	Proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2) [Source:HGNC Symbol;Acc:9546]	
PSMC1	Proteasome (prosome, macropain) 26S subunit, atpase, 1 [Source:HGNC Symbol;Acc:9547]	

PSMC3	Proteasome (prosome, macropain) 26S subunit, atpase, 3 [Source:HGNC Symbol;Acc:9549]	
PSMD13	Proteasome (prosome, macropain) 26S subunit, non-atpase, 13 [Source:HGNC Symbol;Acc:9558]	
PSME4	Proteasome (prosome, macropain) activator subunit 4 [Source:HGNC Symbol;Acc:20635]	
PSMF1	Proteasome (prosome, macropain) inhibitor subunit 1 (PI31) [Source:HGNC Symbol;Acc:9571]	
PSMG4	Proteasome (prosome, macropain) assembly chaperone 4 [Source:HGNC Symbol;Acc:21108]	
PSPC1	Paraspeckle component 1 [Source:HGNC Symbol;Acc:20320]	
PSRC1	Proline/serine-rich coiled-coil 1 [Source:HGNC Symbol;Acc:24472]	
PSTPIP1	Proline-serine-threonine phosphatase interacting protein 1 [Source:HGNC Symbol;Acc:9580]	
PTCD3	Pentatricopeptide repeat domain 3 [Source:HGNC Symbol;Acc:24717]	
PTCHD1	Patched domain containing 1 [Source:HGNC Symbol;Acc:26392]	
PTCHD2	Patched domain containing 2 [Source:HGNC Symbol;Acc:29251]	
PTCHD3	Patched domain containing 3 [Source:HGNC Symbol;Acc:24776]	
PTDSS2	Phosphatidylserine synthase 2 [Source:HGNC Symbol;Acc:15463]	
PTEN	Phosphatase and tensin homolog	√
PTGDS	Prostaglandin D2 synthase 21kda (brain) [Source:HGNC Symbol;Acc:9592]	
PTGER3	Prostaglandin E receptor 3 (subtype EP3) [Source:HGNC Symbol;Acc:9595]	
PTGES2	Prostaglandin E synthase 2 [Source:HGNC Symbol;Acc:17822]	
PTGFRN	Prostaglandin F2 receptor negative regulator [Source:HGNC Symbol;Acc:9601]	
PTGIS	Prostaglandin I2 (prostacyclin) synthase [Source:HGNC Symbol;Acc:9603]	
PTGS1	Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) [Source:HGNC Symbol;Acc:9604]	
PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) [Source:HGNC Symbol;Acc:9605]	
PTH1R	Parathyroid hormone 1 receptor [Source:HGNC Symbol;Acc:9608]	
PTH2	Parathyroid hormone 2 [Source:HGNC Symbol;Acc:30828]	

PTH2R	Parathyroid hormone 2 receptor [Source:HGNC Symbol;Acc:9609]	
PTHLH	Parathyroid hormone-like hormone [Source:HGNC Symbol;Acc:9607]	
PTK2	PTK2 protein tyrosine kinase 2 [Source:HGNC Symbol;Acc:9611]	
PTK2B	PTK2B protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:9612]	
PTK7	PTK7 protein tyrosine kinase 7 [Source:HGNC Symbol;Acc:9618]	
PTPN11	Protein tyrosine phosphatase, non-receptor type 11	√
PTPN12	Protein tyrosine phosphatase, non-receptor type 12 [Source:HGNC Symbol;Acc:9645]	
PTPN14	Protein tyrosine phosphatase, non-receptor type 14 [Source:HGNC Symbol;Acc:9647]	
PTPN18	Protein tyrosine phosphatase, non-receptor type 18 (brain-derived) [Source:HGNC Symbol;Acc:9649]	
PTPN22	Protein tyrosine phosphatase, non-receptor type 22 (lymphoid) [Source:HGNC Symbol;Acc:9652]	
PTPN4	Protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) [Source:HGNC Symbol;Acc:9656]	
PTPN5	Protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched) [Source:HGNC Symbol;Acc:9657]	
PTPN6	Protein tyrosine phosphatase, non-receptor type 6 [Source:HGNC Symbol;Acc:9658]	
PTPN7	Protein tyrosine phosphatase, non-receptor type 7 [Source:HGNC Symbol;Acc:9659]	
PTPRA	Protein tyrosine phosphatase, receptor type, A [Source:HGNC Symbol;Acc:9664]	
PTPRB	Protein tyrosine phosphatase, receptor type, B [Source:HGNC Symbol;Acc:9665]	
PTPRC	Protein tyrosine phosphatase, receptor type, C	√
PTPRE	Protein tyrosine phosphatase, receptor type, E [Source:HGNC Symbol;Acc:9669]	
PTPRF	Protein tyrosine phosphatase, receptor type, F [Source:HGNC Symbol;Acc:9670]	
PTPRG	Protein tyrosine phosphatase, receptor type, G [Source:HGNC Symbol;Acc:9671]	

PTPRJ	Protein tyrosine phosphatase, receptor type, J [Source:HGNC Symbol;Acc:9673]	
PTPRK	Protein tyrosine phosphatase, receptor type, K [Source:HGNC Symbol;Acc:9674]	
PTPRO	Protein tyrosine phosphatase, receptor type, O [Source:HGNC Symbol;Acc:9678]	
PTPRQ	Protein tyrosine phosphatase, receptor type, Q [Source:HGNC Symbol;Acc:9679]	
PTPRR	Protein tyrosine phosphatase, receptor type, R [Source:HGNC Symbol;Acc:9680]	
PTPRS	Protein tyrosine phosphatase, receptor type, S [Source:HGNC Symbol;Acc:9681]	
PTPRT	Protein tyrosine phosphatase, receptor type, T [Source:HGNC Symbol;Acc:9682]	
PTPRZ1	Protein tyrosine phosphatase, receptor-type, Z polypeptide 1 [Source:HGNC Symbol;Acc:9685]	
PTRH1	Peptidyl-trna hydrolase 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:27039]	
PVALB	Parvalbumin [Source:HGNC Symbol;Acc:9704]	
PVRL1	Poliovirus receptor-related 1 (herpesvirus entry mediator C) [Source:HGNC Symbol;Acc:9706]	
PVRL3	Poliovirus receptor-related 3 [Source:HGNC Symbol;Acc:17664]	
PVRL4	Poliovirus receptor-related 4 [Source:HGNC Symbol;Acc:19688]	
PWP2	PWP2 periodic tryptophan protein homolog (yeast) [Source:HGNC Symbol;Acc:9711]	
PXDN	Peroxidasin homolog (Drosophila) [Source:HGNC Symbol;Acc:14966]	
PXN	Paxillin [Source:HGNC Symbol;Acc:9718]	
PXT1	Peroxisomal, testis specific 1 [Source:HGNC Symbol;Acc:18312]	
PYGB	Phosphorylase, glycogen; brain [Source:HGNC Symbol;Acc:9723]	
PYGO1	Pygopus homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:30256]	
PYROXD1	Pyridine nucleotide-disulphide oxidoreductase domain 1 [Source:HGNC Symbol;Acc:26162]	

PYROXD2	Pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:HGNC Symbol;Acc:23517]	
QARS	Glutaminyl-trna synthetase [Source:HGNC Symbol;Acc:9751]	
QRICH1	Glutamine-rich 1 [Source:HGNC Symbol;Acc:24713]	
QSER1	Glutamine and serine rich 1 [Source:HGNC Symbol;Acc:26154]	
QSOX1	Quiescin Q6 sulfhydryl oxidase 1 [Source:HGNC Symbol;Acc:9756]	
QSOX2	Quiescin Q6 sulfhydryl oxidase 2 [Source:HGNC Symbol;Acc:30249]	
QTRTD1	Queuine trna-ribosyltransferase domain containing 1 [Source:HGNC Symbol;Acc:25771]	
R3HDM2	R3H domain containing 2 [Source:HGNC Symbol;Acc:29167]	
RAB11FIP1	RAB11 family interacting protein 1 (class I) [Source:HGNC Symbol;Acc:30265]	
RAB11FIP3	RAB11 family interacting protein 3 (class II) [Source:HGNC Symbol;Acc:17224]	
RAB11FIP4	RAB11 family interacting protein 4 (class II) [Source:HGNC Symbol;Acc:30267]	
RAB12	RAB12, member RAS oncogene family [Source:HGNC Symbol;Acc:31332]	
RAB17	RAB17, member RAS oncogene family [Source:HGNC Symbol;Acc:16523]	
RAB18	RAB18, member RAS oncogene family [Source:HGNC Symbol;Acc:14244]	
RAB20	RAB20, member RAS oncogene family [Source:HGNC Symbol;Acc:18260]	
RAB22A	RAB22A, member RAS oncogene family [Source:HGNC Symbol;Acc:9764]	
RAB25	RAB25, member RAS oncogene family [Source:HGNC Symbol;Acc:18238]	
RAB27B	RAB27B, member RAS oncogene family [Source:HGNC Symbol;Acc:9767]	
RAB2B	RAB2B, member RAS oncogene family [Source:HGNC Symbol;Acc:20246]	
RAB31	RAB31, member RAS oncogene family [Source:HGNC Symbol;Acc:9771]	
RAB36	RAB36, member RAS oncogene family [Source:HGNC Symbol;Acc:9775]	
RAB37	RAB37, member RAS oncogene family [Source:HGNC Symbol;Acc:30268]	
RAB38	RAB38, member RAS oncogene family [Source:HGNC Symbol;Acc:9776]	
RAB3B	RAB3B, member RAS oncogene family [Source:HGNC Symbol;Acc:9778]	

RAB3GAP1	RAB3 gtpase activating protein subunit 1 (catalytic) [Source:HGNC Symbol;Acc:17063]	
RAB3GAP2	RAB3 gtpase activating protein subunit 2 (non-catalytic) [Source:HGNC Symbol;Acc:17168]	
RAB3IL1	RAB3A interacting protein (rabin3)-like 1 [Source:HGNC Symbol;Acc:9780]	
RAB3IP	RAB3A interacting protein (rabin3) [Source:HGNC Symbol;Acc:16508]	
RAB42	RAB42, member RAS oncogene family [Source:HGNC Symbol;Acc:28702]	
RAB4A	RAB4A, member RAS oncogene family [Source:HGNC Symbol;Acc:9781]	
RAB5A	RAB5A, member RAS oncogene family [Source:HGNC Symbol;Acc:9783]	
RAB5B	RAB5B, member RAS oncogene family [Source:HGNC Symbol;Acc:9784]	
RAB6A	RAB6A, member RAS oncogene family [Source:HGNC Symbol;Acc:9786]	
RAB6B	RAB6B, member RAS oncogene family [Source:HGNC Symbol;Acc:14902]	
RAB6C	RAB6C, member RAS oncogene family [Source:HGNC Symbol;Acc:16525]	
RAB7L1	RAB7, member RAS oncogene family-like 1 [Source:HGNC Symbol;Acc:9789]	
RAB8A	RAB8A, member RAS oncogene family [Source:HGNC Symbol;Acc:7007]	
RABEP1	Rabaptin, RAB gtpase binding effector protein 1 [Source:HGNC Symbol;Acc:17677]	
RABEP2	Rabaptin, RAB gtpase binding effector protein 2 [Source:HGNC Symbol;Acc:24817]	
RABGAP1	RAB gtpase activating protein 1 [Source:HGNC Symbol;Acc:17155]	
RABGAP1L	RAB gtpase activating protein 1-like [Source:HGNC Symbol;Acc:24663]	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:17676]	
RABGGTB	Rab geranylgeranyltransferase, beta subunit [Source:HGNC Symbol;Acc:9796]	
RABL2A	RAB, member of RAS oncogene family-like 2A [Source:HGNC Symbol;Acc:9799]	
RABL5	RAB, member RAS oncogene family-like 5 [Source:HGNC Symbol;Acc:21895]	

RAD1	RAD1 homolog (S. Pombe) [Source:HGNC Symbol;Acc:9806]	
RAD17	RAD17 homolog (S. Pombe) [Source:HGNC Symbol;Acc:9807]	
RAD21	RAD21 homolog (*S. Pombe*)	√
RAD23A	RAD23 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:9812]	
RAD50	RAD50 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:9816]	
RAD51	RAD51 homolog (reca homolog, E. Coli) (S. Cerevisiae) [Source:HGNC Symbol;Acc:9817]	
RAD52	RAD52 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:9824]	
RAD54L2	RAD54-like 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:29123]	
RAD9B	RAD9 homolog B (S. Pombe) [Source:HGNC Symbol;Acc:21700]	
RAET1G	Retinoic acid early transcript 1G [Source:HGNC Symbol;Acc:16795]	
RAET1L	Retinoic acid early transcript 1L [Source:HGNC Symbol;Acc:16798]	
RAF1	V-raf-1 murine leukemia viral oncogene homolog 1	√
RAG1	Recombination activating gene 1 [Source:HGNC Symbol;Acc:9831]	
RAG2	Recombination activating gene 2 [Source:HGNC Symbol;Acc:9832]	
RAGE	Renal tumor antigen [Source:HGNC Symbol;Acc:9833]	
RAI1	Retinoic acid induced 1 [Source:HGNC Symbol;Acc:9834]	
RAI14	Retinoic acid induced 14 [Source:HGNC Symbol;Acc:14873]	
RALB	V-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protein) [Source:HGNC Symbol;Acc:9840]	
RALBP1	Rala binding protein 1 [Source:HGNC Symbol;Acc:9841]	
RALGAPA1	Ral gtpase activating protein, alpha subunit 1 (catalytic) [Source:HGNC Symbol;Acc:17770]	
RALGAPA2	Ral gtpase activating protein, alpha subunit 2 (catalytic) [Source:HGNC Symbol;Acc:16207]	
RALGDS	Ral guanine nucleotide dissociation stimulator	√
RALGPS1	Ral GEF with PH domain and SH3 binding motif 1 [Source:HGNC Symbol;Acc:16851]	
RALGPS2	Ral GEF with PH domain and SH3 binding motif 2 [Source:HGNC Symbol;Acc:30279]	
RANBP17	RAN binding protein 17	√
RANBP2	RAN binding protein 2 [Source:HGNC Symbol;Acc:9848]	
RANGAP1	Ran gtpase activating protein 1 [Source:HGNC Symbol;Acc:9854]	

RANGRF	RAN guanine nucleotide release factor [Source:HGNC Symbol;Acc:17679]	
RAP1GAP	RAP1 gtpase activating protein [Source:HGNC Symbol;Acc:9858]	
RAP2A	RAP2A, member of RAS oncogene family [Source:HGNC Symbol;Acc:9861]	
RAP2B	RAP2B, member of RAS oncogene family [Source:HGNC Symbol;Acc:9862]	
RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:4568]	
RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3 [Source:HGNC Symbol;Acc:16629]	
RAPGEF5	Rap guanine nucleotide exchange factor (GEF) 5 [Source:HGNC Symbol;Acc:16862]	
RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1 [Source:HGNC Symbol;Acc:17428]	
RAPH1	Ras association (ralgds/AF-6) and pleckstrin homology domains 1 [Source:HGNC Symbol;Acc:14436]	
RARB	Retinoic acid receptor, beta [Source:HGNC Symbol;Acc:9865]	
RARRES1	Retinoic acid receptor responder (tazarotene induced) 1 [Source:HGNC Symbol;Acc:9867]	
RASA1	RAS p21 protein activator (gtpase activating protein) 1 [Source:HGNC Symbol;Acc:9871]	
RASA3	RAS p21 protein activator 3 [Source:HGNC Symbol;Acc:20331]	
RASAL1	RAS protein activator like 1 (GAP1 like) [Source:HGNC Symbol;Acc:9873]	
RASAL2	RAS protein activator like 2 [Source:HGNC Symbol;Acc:9874]	
RASD2	RASD family, member 2 [Source:HGNC Symbol;Acc:18229]	
RASEF	RAS and EF-hand domain containing [Source:HGNC Symbol;Acc:26464]	
RASGEF1A	Rasgef domain family, member 1A [Source:HGNC Symbol;Acc:24246]	
RASGRF1	Ras protein-specific guanine nucleotide-releasing factor 1 [Source:HGNC Symbol;Acc:9875]	
RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated) [Source:HGNC Symbol;Acc:9879]	
RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated) [Source:HGNC Symbol;Acc:14545]	

RASL10B	RAS-like, family 10, member B [Source:HGNC Symbol;Acc:30295]	
RASL12	RAS-like, family 12 [Source:HGNC Symbol;Acc:30289]	
RAX2	Retina and anterior neural fold homeobox 2 [Source:HGNC Symbol;Acc:18286]	
RBAK	RB-associated KRAB zinc finger [Source:HGNC Symbol;Acc:17680]	
RBBP5	Retinoblastoma binding protein 5 [Source:HGNC Symbol;Acc:9888]	
RBBP6	Retinoblastoma binding protein 6 [Source:HGNC Symbol;Acc:9889]	
RBBP9	Retinoblastoma binding protein 9 [Source:HGNC Symbol;Acc:9892]	
RBFA	Ribosome binding factor A (putative) [Source:HGNC Symbol;Acc:26120]	
RBFOX1	RNA binding protein, fox-1 homolog (C. Elegans) 1 [Source:HGNC Symbol;Acc:18222]	
RBFOX2	RNA binding protein, fox-1 homolog (C. Elegans) 2 [Source:HGNC Symbol;Acc:9906]	
RBM11	RNA binding motif protein 11 [Source:HGNC Symbol;Acc:9897]	
RBM14	RNA binding motif protein 14 [Source:HGNC Symbol;Acc:14219]	
RBM14-RBM4	RBM14-RBM4 readthrough [Source:HGNC Symbol;Acc:38840]	
RBM22	RNA binding motif protein 22 [Source:HGNC Symbol;Acc:25503]	
RBM27	RNA binding motif protein 27 [Source:HGNC Symbol;Acc:29243]	
RBM33	RNA binding motif protein 33 [Source:HGNC Symbol;Acc:27223]	
RBM38	RNA binding motif protein 38 [Source:HGNC Symbol;Acc:15818]	
RBM43	RNA binding motif protein 43 [Source:HGNC Symbol;Acc:24790]	
RBM46	RNA binding motif protein 46 [Source:HGNC Symbol;Acc:28401]	
RBM47	RNA binding motif protein 47 [Source:HGNC Symbol;Acc:30358]	
RBM6	RNA binding motif protein 6 [Source:HGNC Symbol;Acc:9903]	
RBMS1	RNA binding motif, single stranded interacting protein 1 [Source:HGNC Symbol;Acc:9907]	
RBMS2	RNA binding motif, single stranded interacting protein 2 [Source:HGNC Symbol;Acc:9909]	
RBMS3	RNA binding motif, single stranded interacting protein 3 [Source:HGNC Symbol;Acc:13427]	
RBMXL1	RNA binding motif protein, X-linked-like 1 [Source:HGNC Symbol;Acc:25073]	

RBP3	Retinol binding protein 3, interstitial [Source:HGNC Symbol;Acc:9921]	
RCAN2	Regulator of calcineurin 2 [Source:HGNC Symbol;Acc:3041]	
RCAN3	RCAN family member 3 [Source:HGNC Symbol;Acc:3042]	
RCBTB2	Regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 [Source:HGNC Symbol;Acc:1914]	
RCE1	RCE1 homolog, prenyl protein peptidase (S. Cerevisiae) [Source:HGNC Symbol;Acc:13721]	
RCL1	RNA terminal phosphate cyclase-like 1 [Source:HGNC Symbol;Acc:17687]	
RCN2	Reticulocalbin 2, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:9935]	
RCOR1	REST corepressor 1 [Source:HGNC Symbol;Acc:17441]	
RCOR2	REST corepressor 2 [Source:HGNC Symbol;Acc:27455]	
RCOR3	REST corepressor 3 [Source:HGNC Symbol;Acc:25594]	
RDH16	Retinol dehydrogenase 16 (all-trans) [Source:HGNC Symbol;Acc:29674]	
RECK	Reversion-inducing-cysteine-rich protein with kazal motifs [Source:HGNC Symbol;Acc:11345]	
RECQL	Recq protein-like (DNA helicase Q1-like) [Source:HGNC Symbol;Acc:9948]	
REEP3	Receptor accessory protein 3 [Source:HGNC Symbol;Acc:23711]	
REEP4	Receptor accessory protein 4 [Source:HGNC Symbol;Acc:26176]	
RENBP	Renin binding protein [Source:HGNC Symbol;Acc:9959]	
REPIN1	Replication initiator 1 [Source:HGNC Symbol;Acc:17922]	
RET	Ret proto-oncogene	√
RETSAT	Retinol saturase (all-trans-retinol 13,14-reductase) [Source:HGNC Symbol;Acc:25991]	
REV3L	REV3-like, catalytic subunit of DNA polymerase zeta (yeast) [Source:HGNC Symbol;Acc:9968]	
REXO1L1	REX1, RNA exonuclease 1 homolog (S. Cerevisiae)-like 1 [Source:HGNC Symbol;Acc:24660]	
REXO4	REX4, RNA exonuclease 4 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:12820]	
RFC1	Replication factor C (activator 1) 1, 145kda [Source:HGNC Symbol;Acc:9969]	

RFC2	Replication factor C (activator 1) 2, 40kda [Source:HGNC Symbol;Acc:9970]	
RFC3	Replication factor C (activator 1) 3, 38kda [Source:HGNC Symbol;Acc:9971]	
RFPL1	Ret finger protein-like 1 [Source:HGNC Symbol;Acc:9977]	
RFT1	RFT1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:30220]	
RFTN1	Raftlin, lipid raft linker 1 [Source:HGNC Symbol;Acc:30278]	
RFWD2	Ring finger and WD repeat domain 2 [Source:HGNC Symbol;Acc:17440]	
RFX2	Regulatory factor X, 2 (influences HLA class II expression) [Source:HGNC Symbol;Acc:9983]	
RFX3	Regulatory factor X, 3 (influences HLA class II expression) [Source:HGNC Symbol;Acc:9984]	
RFX7	Regulatory factor X, 7 [Source:HGNC Symbol;Acc:25777]	
RGAG1	Retrotransposon gag domain containing 1 [Source:HGNC Symbol;Acc:29245]	
RGMA	RGM domain family, member A [Source:HGNC Symbol;Acc:30308]	
RGP1	RGP1 retrograde golgi transport homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:21965]	
RGPD1	RANBP2-like and GRIP domain containing 1 [Source:HGNC Symbol;Acc:32414]	
RGPD2	RANBP2-like and GRIP domain containing 2 [Source:HGNC Symbol;Acc:32415]	
RGPD4	RANBP2-like and GRIP domain containing 4 [Source:HGNC Symbol;Acc:32417]	
RGPD5	RANBP2-like and GRIP domain containing 5 [Source:HGNC Symbol;Acc:32418]	
RGPD6	RANBP2-like and GRIP domain containing 6 [Source:HGNC Symbol;Acc:32419]	
RGPD8	RANBP2-like and GRIP domain containing 8 [Source:HGNC Symbol;Acc:9849]	
RGS12	Regulator of G-protein signaling 12 [Source:HGNC Symbol;Acc:9994]	
RGS2	Regulator of G-protein signaling 2, 24kda [Source:HGNC Symbol;Acc:9998]	

RGS22	Regulator of G-protein signaling 22 [Source:HGNC Symbol;Acc:24499]	
RGS3	Regulator of G-protein signaling 3 [Source:HGNC Symbol;Acc:9999]	
RGS4	Regulator of G-protein signaling 4 [Source:HGNC Symbol;Acc:10000]	
RGS5	Regulator of G-protein signaling 5 [Source:HGNC Symbol;Acc:10001]	
RGS6	Regulator of G-protein signaling 6 [Source:HGNC Symbol;Acc:10002]	
RGS7	Regulator of G-protein signaling 7 [Source:HGNC Symbol;Acc:10003]	
RGS9BP	Regulator of G protein signaling 9 binding protein [Source:HGNC Symbol;Acc:30304]	
RHBDD1	Rhomboid domain containing 1 [Source:HGNC Symbol;Acc:23081]	
RHBDD2	Rhomboid domain containing 2 [Source:HGNC Symbol;Acc:23082]	
RHBDL3	Rhomboid, veinlet-like 3 (Drosophila) [Source:HGNC Symbol;Acc:16502]	
RHCE	Rh blood group, ccee antigens [Source:HGNC Symbol;Acc:10008]	
RHD	Rh blood group, D antigen [Source:HGNC Symbol;Acc:10009]	
RHEB	Ras homolog enriched in brain [Source:HGNC Symbol;Acc:10011]	
RHO	Rhodopsin [Source:HGNC Symbol;Acc:10012]	
RHOBTB1	Rho-related BTB domain containing 1 [Source:HGNC Symbol;Acc:18738]	
RHOBTB2	Rho-related BTB domain containing 2 [Source:HGNC Symbol;Acc:18756]	
RHOH	Ras homolog gene family, member H [Source:HGNC Symbol;Acc:686]	
RHPN2	Rhophilin, Rho gtpase binding protein 2 [Source:HGNC Symbol;Acc:19974]	
RIBC2	RIB43A domain with coiled-coils 2 [Source:HGNC Symbol;Acc:13241]	
RIC3	Resistance to inhibitors of cholinesterase 3 homolog (C. Elegans) [Source:HGNC Symbol;Acc:30338]	
RIC8A	Resistance to inhibitors of cholinesterase 8 homolog A (C. Elegans) [Source:HGNC Symbol;Acc:29550]	
RICTOR	RPTOR independent companion of MTOR, complex 2 [Source:HGNC Symbol;Acc:28611]	
RIF1	RAP1 interacting factor homolog (yeast) [Source:HGNC Symbol;Acc:23207]	
RILPL2	Rab interacting lysosomal protein-like 2 [Source:HGNC Symbol;Acc:28787]	
RIMBP2	RIMS binding protein 2 [Source:HGNC Symbol;Acc:30339]	
RIMBP3	RIMS binding protein 3 [Source:HGNC Symbol;Acc:29344]	
RIMS2	Regulating synaptic membrane exocytosis 2 [Source:HGNC Symbol;Acc:17283]	

RIMS3	Regulating synaptic membrane exocytosis 3 [Source:HGNC Symbol;Acc:21292]	
RIMS4	Regulating synaptic membrane exocytosis 4 [Source:HGNC Symbol;Acc:16183]	
RIN2	Ras and Rab interactor 2 [Source:HGNC Symbol;Acc:18750]	
RIN3	Ras and Rab interactor 3 [Source:HGNC Symbol;Acc:18751]	
RIOK1	RIO kinase 1 (yeast) [Source:HGNC Symbol;Acc:18656]	
RIPK2	Receptor-interacting serine-threonine kinase 2 [Source:HGNC Symbol;Acc:10020]	
RIPK4	Receptor-interacting serine-threonine kinase 4 [Source:HGNC Symbol;Acc:496]	
RLTPR	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing [Source:HGNC Symbol;Acc:27089]	
RMND5A	Required for meiotic nuclear division 5 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:25850]	
RNASEH2C	Ribonuclease H2, subunit C [Source:HGNC Symbol;Acc:24116]	
RNASEL	Ribonuclease L (2',5'-oligoisoadenylate synthetase-dependent) [Source:HGNC Symbol;Acc:10050]	
RNASET2	Ribonuclease T2 [Source:HGNC Symbol;Acc:21686]	
RND1	Rho family gtpase 1 [Source:HGNC Symbol;Acc:18314]	
RND2	Rho family gtpase 2 [Source:HGNC Symbol;Acc:18315]	
RNF11	Ring finger protein 11 [Source:HGNC Symbol;Acc:10056]	
RNF111	Ring finger protein 111 [Source:HGNC Symbol;Acc:17384]	
RNF114	Ring finger protein 114 [Source:HGNC Symbol;Acc:13094]	
RNF121	Ring finger protein 121 [Source:HGNC Symbol;Acc:21070]	
RNF123	Ring finger protein 123 [Source:HGNC Symbol;Acc:21148]	
RNF125	Ring finger protein 125 [Source:HGNC Symbol;Acc:21150]	
RNF128	Ring finger protein 128 [Source:HGNC Symbol;Acc:21153]	
RNF133	Ring finger protein 133 [Source:HGNC Symbol;Acc:21154]	
RNF141	Ring finger protein 141 [Source:HGNC Symbol;Acc:21159]	
RNF144B	Ring finger protein 144B [Source:HGNC Symbol;Acc:21578]	
RNF145	Ring finger protein 145 [Source:HGNC Symbol;Acc:20853]	
RNF152	Ring finger protein 152 [Source:HGNC Symbol;Acc:26811]	

RNF165	Ring finger protein 165 [Source:HGNC Symbol;Acc:31696]	
RNF169	Ring finger protein 169 [Source:HGNC Symbol;Acc:26961]	
RNF17	Ring finger protein 17 [Source:HGNC Symbol;Acc:10060]	
RNF170	Ring finger protein 170 [Source:HGNC Symbol;Acc:25358]	
RNF175	Ring finger protein 175 [Source:HGNC Symbol;Acc:27735]	
RNF182	Ring finger protein 182 [Source:HGNC Symbol;Acc:28522]	
RNF19A	Ring finger protein 19A [Source:HGNC Symbol;Acc:13432]	
RNF19B	Ring finger protein 19B [Source:HGNC Symbol;Acc:26886]	
RNF20	Ring finger protein 20 [Source:HGNC Symbol;Acc:10062]	
RNF213	Ring finger protein 213 [Source:HGNC Symbol;Acc:14539]	
RNF214	Ring finger protein 214 [Source:HGNC Symbol;Acc:25335]	
RNF216	Ring finger protein 216 [Source:HGNC Symbol;Acc:21698]	
RNF219	Ring finger protein 219 [Source:HGNC Symbol;Acc:20308]	
RNF32	Ring finger protein 32 [Source:HGNC Symbol;Acc:17118]	
RNF34	Ring finger protein 34 [Source:HGNC Symbol;Acc:17297]	
RNF38	Ring finger protein 38 [Source:HGNC Symbol;Acc:18052]	
RNF40	Ring finger protein 40 [Source:HGNC Symbol;Acc:16867]	
RNF8	Ring finger protein 8 [Source:HGNC Symbol;Acc:10071]	
RNFT2	Ring finger protein, transmembrane 2 [Source:HGNC Symbol;Acc:25905]	
RNH1	Ribonuclease/angiogenin inhibitor 1 [Source:HGNC Symbol;Acc:10074]	
RNMT	RNA (guanine-7-) methyltransferase [Source:HGNC Symbol;Acc:10075]	
RNMTL1	RNA methyltransferase like 1 [Source:HGNC Symbol;Acc:18485]	
ROBO1	Roundabout, axon guidance receptor, homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:10249]	
ROBO2	Roundabout, axon guidance receptor, homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:10250]	
ROBO4	Roundabout homolog 4, magic roundabout (Drosophila) [Source:HGNC Symbol;Acc:17985]	
ROD1	ROD1 regulator of differentiation 1 (S. Pombe) [Source:HGNC Symbol;Acc:10253]	
ROPN1L	Rhophilin associated tail protein 1-like [Source:HGNC Symbol;Acc:24060]	
ROR2	Receptor tyrosine kinase-like orphan receptor 2 [Source:HGNC Symbol;Acc:10257]	

ROS1	C-ros oncogene 1 , receptor tyrosine kinase	√
RP1	Retinitis pigmentosa 1 (autosomal dominant)	
RP11-1286E23.8	Ubiquitin carboxyl-terminal hydrolase 17 [Source:uniprotkb/Swiss-Prot;Acc:Q0WX57]	
RP11-1396O13.11		
RP11-1396O13.4		
RP11-1396O13.5		
RP11-1396O13.7		
RP11-1396O13.8		
RP11-1396O13.9		
RP11-15K19.2	28S ribosomal protein S17, mitochondrial [Source:uniprotkb/Swiss-Prot;Acc:Q9Y2R5]	
RP11-261P9.5	Syntaxin 16 isoform a variant [Source:uniprotkb/trembl;Acc:Q59G13]	
RP11-352D3.2	Novel proteinuncharacterized protein [Source:uniprotkb/trembl;Acc:Q5VXX5]	
RP11-389E17.1	HCG2025867Uncharacterized protein [Source:uniprotkb/trembl;Acc:C9JJG8]	
RP11-392O18.1	Selenoprotein T [Source:uniprotkb/Swiss-Prot;Acc:P62341]	
RP11-428C6.1	Rho-guanine nucleotide exchange factor [Source:uniprotkb/Swiss-Prot;Acc:Q8N1W1]	
RP11-468E2.1	Transmembrane 9 superfamily member 1 isoform a [Source:refseq peptide;Acc:NP_006396]	
RP11-476E15.3	Novel protein (KIAA0894)Sorbin and SH3 domain containing 1, isoform CRA_e [Source:uniprotkb/trembl;Acc:Q5T925]	
RP11-631M21.2	Tubulin beta-8 chain [Source:uniprotkb/Swiss-Prot;Acc:Q3ZCM7]	

RP11-723O4.6	Uncharacterized protein FLJ43738 [Source:uniprotkb/Swiss-Prot;Acc:Q6ZUG5]	
RP1-177G6.2	Novel protein [Source:uniprotkb/trembl;Acc:Q5JPA2]	
RP11-783K16.10	Potassium channel subfamily K member 4 [Source:refseq peptide;Acc:NP_201567]	
RP11-88G17.6	Novel protein similar to hemicentin (LOC392395) [Source:uniprotkb/trembl;Acc:A2A3K3]	
RP13-347D8.6	Uncharacterized protein KIAA1210 [Source:uniprotkb/Swiss-Prot;Acc:Q9ULL0]	
RP3-377D14.1	Novel protein [Source:uniprotkb/trembl;Acc:A2BGT5]	
RP3-402G11.5	Selenoprotein O [Source:uniprotkb/Swiss-Prot;Acc:Q9BVL4]	
RP3-403A15.5	C6orf174 protein [Source:uniprotkb/trembl;Acc:A5PLQ8]	
RP4-695O20__B.10	Microrna let-7b (MIRLET7B), microrna [Source:refseq DNA;Acc:NR_029479]	
RP4-697K14.7	Peroxisomal proliferator-activated receptor A-interacting complex 285 kda protein [Source:uniprotkb/Swiss-Prot;Acc:Q9BYK8]	
RP4-788L13.1	Lipid phosphate phosphatase-related protein type 4 [Source:uniprotkb/Swiss-Prot;Acc:Q7Z2D5]	
RP5-860F19.6	Uncharacterized protein [Source:uniprotkb/trembl;Acc:D6RAZ5]	
RP5-862P8.2	Mitogen-activated protein kinase kinase kinase MLK4 [Source:uniprotkb/Swiss-Prot;Acc:Q5TCX8]	
RP5-877J2.1	Cdna FLJ51453, highly similar to Aquaporin-1 [Source:uniprotkb/trembl;Acc:B4E220]	
RPAP1	RNA polymerase II associated protein 1 [Source:HGNC Symbol;Acc:24567]	
RPGRIP1	Retinitis pigmentosa gtpase regulator interacting protein 1 [Source:HGNC Symbol;Acc:13436]	
RPGRIP1L	RPGRIP1-like [Source:HGNC Symbol;Acc:29168]	
RPL13	Ribosomal protein L13 [Source:HGNC Symbol;Acc:10303]	
RPL13A	Ribosomal protein L13a [Source:HGNC Symbol;Acc:10304]	
RPL3	Ribosomal protein L3 [Source:HGNC Symbol;Acc:10332]	
RPL31	Ribosomal protein L31 [Source:HGNC Symbol;Acc:10334]	
RPL7L1	Ribosomal protein L7-like 1 [Source:HGNC Symbol;Acc:21370]	

RPN1	Ribophorin I	√
RPN2	Ribophorin II [Source:HGNC Symbol;Acc:10382]	
RPP14	Ribonuclease P/MRP 14kda subunit [Source:HGNC Symbol;Acc:30327]	
RPRD1A	Regulation of nuclear pre-mrna domain containing 1A [Source:HGNC Symbol;Acc:25560]	
RPRD1B	Regulation of nuclear pre-mrna domain containing 1B [Source:HGNC Symbol;Acc:16209]	
RPS21	Ribosomal protein S21 [Source:HGNC Symbol;Acc:10409]	
RPS27A	Ribosomal protein S27a [Source:HGNC Symbol;Acc:10417]	
RPS6	Ribosomal protein S6 [Source:HGNC Symbol;Acc:10429]	
RPS6KA3	Ribosomal protein S6 kinase, 90kda, polypeptide 3 [Source:HGNC Symbol;Acc:10432]	
RPS6KA4	Ribosomal protein S6 kinase, 90kda, polypeptide 4 [Source:HGNC Symbol;Acc:10433]	
RPS6KA5	Ribosomal protein S6 kinase, 90kda, polypeptide 5 [Source:HGNC Symbol;Acc:10434]	
RPS6KB1	Ribosomal protein S6 kinase, 70kda, polypeptide 1 [Source:HGNC Symbol;Acc:10436]	
RPS6KL1	Ribosomal protein S6 kinase-like 1 [Source:HGNC Symbol;Acc:20222]	
RPS7	Ribosomal protein S7 [Source:HGNC Symbol;Acc:10440]	
RPS8	Ribosomal protein S8 [Source:HGNC Symbol;Acc:10441]	
RRAGB	Ras-related GTP binding B [Source:HGNC Symbol;Acc:19901]	
RRBP1	Ribosome binding protein 1 homolog 180kda (dog) [Source:HGNC Symbol;Acc:10448]	
RREB1	Ras responsive element binding protein 1 [Source:HGNC Symbol;Acc:10449]	
RRH	Retinal pigment epithelium-derived rhodopsin homolog [Source:HGNC Symbol;Acc:10450]	
RRM2B	Ribonucleotide reductase M2 B (TP53 inducible) [Source:HGNC Symbol;Acc:17296]	
RRP15	Ribosomal RNA processing 15 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24255]	

RRP8	Ribosomal RNA processing 8, methyltransferase, homolog (yeast) [Source:HGNC Symbol;Acc:29030]	
RRP9	Ribosomal RNA processing 9, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:16829]	
RS1	Retinoschisin 1 [Source:HGNC Symbol;Acc:10457]	
RSC1A1	Regulatory solute carrier protein, family 1, member 1 [Source:HGNC Symbol;Acc:10458]	
RSF1	Remodeling and spacing factor 1 [Source:HGNC Symbol;Acc:18118]	
RSPH10B2	Radial spoke head 10 homolog B2 (Chlamydomonas) [Source:HGNC Symbol;Acc:34385]	
RSPH9	Radial spoke head 9 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:21057]	
RSPRY1	Ring finger and SPRY domain containing 1 [Source:HGNC Symbol;Acc:29420]	
RSRC2	Arginine/serine-rich coiled-coil 2 [Source:HGNC Symbol;Acc:30559]	
RSU1	Ras suppressor protein 1 [Source:HGNC Symbol;Acc:10464]	
RTCD1	RNA terminal phosphate cyclase domain 1 [Source:HGNC Symbol;Acc:17981]	
RTEL1	Regulator of telomere elongation helicase 1 [Source:HGNC Symbol;Acc:15888]	
RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:28996]	
RTKN	Rhotekin [Source:HGNC Symbol;Acc:10466]	
RTKN2	Rhotekin 2 [Source:HGNC Symbol;Acc:19364]	
RTN1	Reticulon 1 [Source:HGNC Symbol;Acc:10467]	
RTN4	Reticulon 4 [Source:HGNC Symbol;Acc:14085]	
RTN4R	Reticulon 4 receptor [Source:HGNC Symbol;Acc:18601]	
RTN4RL1	Reticulon 4 receptor-like 1 [Source:HGNC Symbol;Acc:21329]	
RTP4	Receptor (chemosensory) transporter protein 4 [Source:HGNC Symbol;Acc:23992]	
RUFY3	RUN and FYVE domain containing 3 [Source:HGNC Symbol;Acc:30285]	
RUNX1T1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related) [Source:HGNC Symbol;Acc:1535]	

RUSC1	RUN and SH3 domain containing 1 [Source:HGNC Symbol;Acc:17153]	
RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:23625]	
RWDD2B	RWD domain containing 2B [Source:HGNC Symbol;Acc:1302]	
RWDD3	RWD domain containing 3 [Source:HGNC Symbol;Acc:21393]	
RWDD4	RWD domain containing 4 [Source:HGNC Symbol;Acc:23750]	
RXFP1	Relaxin/insulin-like family peptide receptor 1 [Source:HGNC Symbol;Acc:19718]	
RXFP2	Relaxin/insulin-like family peptide receptor 2 [Source:HGNC Symbol;Acc:17318]	
RXFP3	Relaxin/insulin-like family peptide receptor 3 [Source:HGNC Symbol;Acc:24883]	
RXRA	Retinoid X receptor, alpha [Source:HGNC Symbol;Acc:10477]	
RXRB	Retinoid X receptor, beta [Source:HGNC Symbol;Acc:10478]	
RYR1	Ryanodine receptor 1 (skeletal) [Source:HGNC Symbol;Acc:10483]	
RYR2	Ryanodine receptor 2 (cardiac) [Source:HGNC Symbol;Acc:10484]	
RYR3	Ryanodine receptor 3 [Source:HGNC Symbol;Acc:10485]	
S100A1	S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:10486]	
S100A2	S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:10492]	
S100A7A	S100 calcium binding protein A7A [Source:HGNC Symbol;Acc:21657]	
S100PBP	S100P binding protein [Source:HGNC Symbol;Acc:25768]	
S1PR3	Sphingosine-1-phosphate receptor 3 [Source:HGNC Symbol;Acc:3167]	
S1PR5	Sphingosine-1-phosphate receptor 5 [Source:HGNC Symbol;Acc:14299]	
SACS	Spastic ataxia of Charlevoix-Saguenay (sacsin) [Source:HGNC Symbol;Acc:10519]	
SAE1	SUMO1 activating enzyme subunit 1 [Source:HGNC Symbol;Acc:30660]	
SAGE1	Sarcoma antigen 1 [Source:HGNC Symbol;Acc:30369]	
SALL4	Sal-like 4 (Drosophila) [Source:HGNC Symbol;Acc:15924]	
SAMD10	Sterile alpha motif domain containing 10 [Source:HGNC Symbol;Acc:16129]	
SAMD14	Sterile alpha motif domain containing 14 [Source:HGNC Symbol;Acc:27312]	
SAMD4A	Sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:23023]	

SAMD5	Sterile alpha motif domain containing 5 [Source:HGNC Symbol;Acc:21180]	
SAMD7	Sterile alpha motif domain containing 7 [Source:HGNC Symbol;Acc:25394]	
SAMD9L	Sterile alpha motif domain containing 9-like [Source:HGNC Symbol;Acc:1349]	
SAMM50	Sorting and assembly machinery component 50 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24276]	
SAP130	Sin3A-associated protein, 130kda [Source:HGNC Symbol;Acc:29813]	
SAP30BP	SAP30 binding protein [Source:HGNC Symbol;Acc:30785]	
SAP30L	SAP30-like [Source:HGNC Symbol;Acc:25663]	
SAR1A	SAR1 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:10534]	
SAR1B	SAR1 homolog B (S. Cerevisiae) [Source:HGNC Symbol;Acc:10535]	
SARNP	SAP domain containing ribonucleoprotein [Source:HGNC Symbol;Acc:24432]	
SASH1	SAM and SH3 domain containing 1 [Source:HGNC Symbol;Acc:19182]	
SATB1	SATB homeobox 1 [Source:HGNC Symbol;Acc:10541]	
SATB2	SATB homeobox 2 [Source:HGNC Symbol;Acc:21637]	
SBDS	Shwachman-Bodian-Diamond syndrome	√
SBNO1	Strawberry notch homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:22973]	
SC4MOL	Sterol-C4-methyl oxidase-like [Source:HGNC Symbol;Acc:10545]	
SCAF8	SR-related CTD-associated factor 8 [Source:HGNC Symbol;Acc:20959]	
SCAMP4	Secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:30385]	
SCAMP5	Secretory carrier membrane protein 5 [Source:HGNC Symbol;Acc:30386]	
SCAND3	SCAN domain containing 3 [Source:HGNC Symbol;Acc:13851]	
SCAP	SREBF chaperone [Source:HGNC Symbol;Acc:30634]	
SCAPER	S-phase cyclin A-associated protein in the ER [Source:HGNC Symbol;Acc:13081]	
SCARB2	Scavenger receptor class B, member 2 [Source:HGNC Symbol;Acc:1665]	
SCD	Stearoyl-coa desaturase (delta-9-desaturase) [Source:HGNC Symbol;Acc:10571]	
SCEL	Sciellin [Source:HGNC Symbol;Acc:10573]	
SCG2	Secretogranin II [Source:HGNC Symbol;Acc:10575]	
SCIN	Scinderin [Source:HGNC Symbol;Acc:21695]	

SCMH1	Sex comb on midleg homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19003]	
SCML1	Sex comb on midleg-like 1 (Drosophila) [Source:HGNC Symbol;Acc:10580]	
SCML2	Sex comb on midleg-like 2 (Drosophila) [Source:HGNC Symbol;Acc:10581]	
SCML4	Sex comb on midleg-like 4 (Drosophila) [Source:HGNC Symbol;Acc:21397]	
SCN10A	Sodium channel, voltage-gated, type X, alpha subunit [Source:HGNC Symbol;Acc:10582]	
SCN2A	Sodium channel, voltage-gated, type II, alpha subunit [Source:HGNC Symbol;Acc:10588]	
SCN3B	Sodium channel, voltage-gated, type III, beta [Source:HGNC Symbol;Acc:20665]	
SCN4A	Sodium channel, voltage-gated, type IV, alpha subunit [Source:HGNC Symbol;Acc:10591]	
SCN5A	Sodium channel, voltage-gated, type V, alpha subunit [Source:HGNC Symbol;Acc:10593]	
SCN8A	Sodium channel, voltage gated, type VIII, alpha subunit [Source:HGNC Symbol;Acc:10596]	
SCP2	Sterol carrier protein 2 [Source:HGNC Symbol;Acc:10606]	
SCRG1	Stimulator of chondrogenesis 1 [Source:HGNC Symbol;Acc:17036]	
SCRN1	Secernin 1 [Source:HGNC Symbol;Acc:22192]	
SCUBE1	Signal peptide, CUB domain, EGF-like 1 [Source:HGNC Symbol;Acc:13441]	
SCUBE2	Signal peptide, CUB domain, EGF-like 2 [Source:HGNC Symbol;Acc:30425]	
SCUBE3	Signal peptide, CUB domain, EGF-like 3 [Source:HGNC Symbol;Acc:13655]	
SDAD1	SDA1 domain containing 1 [Source:HGNC Symbol;Acc:25537]	
SDC3	Syndecan 3 [Source:HGNC Symbol;Acc:10660]	
SDC4	Syndecan 4	√
SDCBP2	Syndecan binding protein (syntenin) 2 [Source:HGNC Symbol;Acc:15756]	

SDCCAG3	Serologically defined colon cancer antigen 3 [Source:HGNC Symbol;Acc:10667]	
SDHAF2	Succinate dehydrogenase complex assembly factor 2 [Source:HGNC Symbol;Acc:26034]	
SDHD	Succinate dehydrogenase complex, subunit D, integral membrane protein	√
SDK1	Sidekick homolog 1, cell adhesion molecule (chicken) [Source:HGNC Symbol;Acc:19307]	
SDK2	Sidekick homolog 2 (chicken) [Source:HGNC Symbol;Acc:19308]	
SDR16C5	Short chain dehydrogenase/reductase family 16C, member 5 [Source:HGNC Symbol;Acc:30311]	
SEC14L4	SEC14-like 4 (*S. Cerevisiae*)	
SEC14L5	SEC14-like 5 (*S. Cerevisiae*)	
SEC16A	SEC16 homolog A (*S. Cerevisiae*)	
SEC22A	SEC22 vesicle trafficking protein homolog A (*S. Cerevisiae*)	
SEC23A	Sec23 homolog A (*S. Cerevisiae*)	
SEC23B	Sec23 homolog B (*S. Cerevisiae*)	
SEC23IP	SEC23 interacting protein [Source:HGNC Symbol;Acc:17018]	
SEC24B	SEC24 family, member B (*S. Cerevisiae*)	
SEC24C	SEC24 family, member C (*S. Cerevisiae*)	
SEC24D	SEC24 family, member D (*S. Cerevisiae*)	
SEC31A	SEC31 homolog A (*S. Cerevisiae*)	
SEC61A2	Sec61 alpha 2 subunit (*S. Cerevisiae*)	
SEC63	SEC63 homolog (*S. Cerevisiae*)	
SECISBP2	SECIS binding protein 2	
SEH1L	SEH1-like (*S. Cerevisiae*)	
SEL1L	Sel-1 suppressor of lin-12-like (*C. Elegans*)	
SEL1L3	Sel-1 suppressor of lin-12-like 3 (*C. Elegans*)	
SELE	Selectin E	
SELENBP1	Selenium binding protein 1 [Source:HGNC Symbol;Acc:10719]	
SELL	Selectin L [Source:HGNC Symbol;Acc:10720]	
SEMA3A	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (Semaphorin) 3A [Source:HGNC Symbol;Acc:10723]	

SEMA3C	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (Semaphorin) 3C [Source:HGNC Symbol;Acc:10725]	
SEMA4A	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 4A [Source:HGNC Symbol;Acc:10729]	
SEMA4B	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 4B [Source:HGNC Symbol;Acc:10730]	
SEMA4C	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 4C [Source:HGNC Symbol;Acc:10731]	
SEMA4D	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 4D [Source:HGNC Symbol;Acc:10732]	
SEMA4F	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 4F [Source:HGNC Symbol;Acc:10734]	
SEMA5A	Sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (Semaphorin) 5A [Source:HGNC Symbol;Acc:10736]	
SEMA6A	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (Semaphorin) 6A [Source:HGNC Symbol;Acc:10738]	
SEMG2	Semenogelin II [Source:HGNC Symbol;Acc:10743]	
SENP5	SUMO1/sentrin specific peptidase 5 [Source:HGNC Symbol;Acc:28407]	
SENP6	SUMO1/sentrin specific peptidase 6 [Source:HGNC Symbol;Acc:20944]	
SENP7	SUMO1/sentrin specific peptidase 7 [Source:HGNC Symbol;Acc:30402]	
SENP8	SUMO/sentrin specific peptidase family member 8 [Source:HGNC Symbol;Acc:22992]	
SEPHS1	Selenophosphate synthetase 1 [Source:HGNC Symbol;Acc:19685]	
SEPN1	Selenoprotein N, 1 [Source:HGNC Symbol;Acc:15999]	
SEPSECS	Sep (O-phosphoserine) trna:Sec (selenocysteine) trna synthase [Source:HGNC Symbol;Acc:30605]	
SERBP1	SERPINE1 mrna binding protein 1 [Source:HGNC Symbol;Acc:17860]	

SERHL2	Serine hydrolase-like 2 [Source:HGNC Symbol;Acc:29446]	
SERINC1	Serine incorporator 1 [Source:HGNC Symbol;Acc:13464]	
SERPINA10	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10 [Source:HGNC Symbol;Acc:15996]	
SERPINA5	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5 [Source:HGNC Symbol;Acc:8723]	
SERPINA7	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7 [Source:HGNC Symbol;Acc:11583]	
SERPINA9	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 9 [Source:HGNC Symbol;Acc:15995]	
SERPINB1	Serpin peptidase inhibitor, clade B (ovalbumin), member 1 [Source:HGNC Symbol;Acc:3311]	
SERPINB2	Serpin peptidase inhibitor, clade B (ovalbumin), member 2 [Source:HGNC Symbol;Acc:8584]	
SERPINB5	Serpin peptidase inhibitor, clade B (ovalbumin), member 5 [Source:HGNC Symbol;Acc:8949]	
SERPINB9	Serpin peptidase inhibitor, clade B (ovalbumin), member 9 [Source:HGNC Symbol;Acc:8955]	
SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Source:HGNC Symbol;Acc:8583]	
SERPINE2	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2 [Source:HGNC Symbol;Acc:8951]	
SERTAD2	SERTA domain containing 2 [Source:HGNC Symbol;Acc:30784]	
SERTAD4	SERTA domain containing 4 [Source:HGNC Symbol;Acc:25236]	
SESTD1	SEC14 and spectrin domains 1 [Source:HGNC Symbol;Acc:18379]	
SETBP1	SET binding protein 1	√
SETD1B	SET domain containing 1B [Source:HGNC Symbol;Acc:29187]	
SETD2	SET domain containing 2	√
SETD5	SET domain containing 5 [Source:HGNC Symbol;Acc:25566]	
SETD7	SET domain containing (lysine methyltransferase) 7 [Source:HGNC Symbol;Acc:30412]	
SETMAR	SET domain and mariner transposase fusion gene [Source:HGNC Symbol;Acc:10762]	

SETX	Senataxin [Source:HGNC Symbol;Acc:445]	
SEZ6	Seizure related 6 homolog (mouse) [Source:HGNC Symbol;Acc:15955]	
SF3A1	Splicing factor 3a, subunit 1, 120kda [Source:HGNC Symbol;Acc:10765]	
SF3A3	Splicing factor 3a, subunit 3, 60kda [Source:HGNC Symbol;Acc:10767]	
SF3B1	Splicing factor 3b, subunit 1, 155 kDa	√
SF3B4	Splicing factor 3b, subunit 4, 49kda [Source:HGNC Symbol;Acc:10771]	
SFI1	Sfi1 homolog, spindle assembly associated (yeast) [Source:HGNC Symbol;Acc:29064]	
SFMBT2	Scm-like with four mbt domains 2 [Source:HGNC Symbol;Acc:20256]	
SFN	Stratifin [Source:HGNC Symbol;Acc:10773]	
SFPQ	Splicing factor proline/glutamine-rich	√
SFRP2	Secreted frizzled-related protein 2 [Source:HGNC Symbol;Acc:10777]	
SFRP4	Secreted frizzled-related protein 4 [Source:HGNC Symbol;Acc:10778]	
SFRS18	Splicing factor, arginine/serine-rich 18 [Source:HGNC Symbol;Acc:21222]	
SFTPB	Surfactant protein B [Source:HGNC Symbol;Acc:10801]	
SFTPC	Surfactant protein C [Source:HGNC Symbol;Acc:10802]	
SFXN3	Sideroflexin 3 [Source:HGNC Symbol;Acc:16087]	
SGCD	Sarcoglycan, delta (35kda dystrophin-associated glycoprotein) [Source:HGNC Symbol;Acc:10807]	
SGIP1	SH3-domain GRB2-like (endophilin) interacting protein 1 [Source:HGNC Symbol;Acc:25412]	
SGK1	Serum/glucocorticoid regulated kinase 1 [Source:HGNC Symbol;Acc:10810]	
SGK2	Serum/glucocorticoid regulated kinase 2 [Source:HGNC Symbol;Acc:13900]	
SGMS1	Sphingomyelin synthase 1 [Source:HGNC Symbol;Acc:29799]	
SGOL2	Shugoshin-like 2 (S. Pombe) [Source:HGNC Symbol;Acc:30812]	
SGSM1	Small G protein signaling modulator 1 [Source:HGNC Symbol;Acc:29410]	
SGSM3	Small G protein signaling modulator 3 [Source:HGNC Symbol;Acc:25228]	
SGTA	Small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha [Source:HGNC Symbol;Acc:10819]	
SH2D1A	SH2 domain containing 1A [Source:HGNC Symbol;Acc:10820]	
SH2D3C	SH2 domain containing 3C [Source:HGNC Symbol;Acc:16884]	

SH3BP2	SH3-domain binding protein 2 [Source:HGNC Symbol;Acc:10825]	
SH3D19	SH3 domain containing 19 [Source:HGNC Symbol;Acc:30418]	
SH3D21	SH3 domain containing 21 [Source:HGNC Symbol;Acc:26236]	
SH3GLB1	SH3-domain GRB2-like endophilin B1 [Source:HGNC Symbol;Acc:10833]	
SH3KBP1	SH3-domain kinase binding protein 1 [Source:HGNC Symbol;Acc:13867]	
SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:23664]	
SH3PXD2B	SH3 and PX domains 2B [Source:HGNC Symbol;Acc:29242]	
SH3TC2	SH3 domain and tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:29427]	
SHANK1	SH3 and multiple ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:15474]	
SHARPIN	SHANK-associated RH domain interactor [Source:HGNC Symbol;Acc:25321]	
SHC2	SHC (Src homology 2 domain containing) transforming protein 2 [Source:HGNC Symbol;Acc:29869]	
SHE	Src homology 2 domain containing E [Source:HGNC Symbol;Acc:27004]	
SHF	Src homology 2 domain containing F [Source:HGNC Symbol;Acc:25116]	
SHH	Sonic hedgehog [Source:HGNC Symbol;Acc:10848]	
SHOC2	Soc-2 suppressor of clear homolog (C. Elegans) [Source:HGNC Symbol;Acc:15454]	
SHPRH	SNF2 histone linker PHD RING helicase [Source:HGNC Symbol;Acc:19336]	
SHQ1	SHQ1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25543]	
SHROOM2	Shroom family member 2 [Source:HGNC Symbol;Acc:630]	
SHROOM4	Shroom family member 4 [Source:HGNC Symbol;Acc:29215]	
SIAE	Sialic acid acetylesterase [Source:HGNC Symbol;Acc:18187]	
SIAH2	Seven in absentia homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:10858]	
SIDT1	SID1 transmembrane family, member 1 [Source:HGNC Symbol;Acc:25967]	
SIDT2	SID1 transmembrane family, member 2 [Source:HGNC Symbol;Acc:24272]	
SIGLEC1	Sialic acid binding Ig-like lectin 1, sialoadhesin [Source:HGNC Symbol;Acc:11127]	
SIGLEC9	Sialic acid binding Ig-like lectin 9 [Source:HGNC Symbol;Acc:10878]	

SIK1	Salt-inducible kinase 1 [Source:HGNC Symbol;Acc:11142]	
SIK3	SIK family kinase 3 [Source:HGNC Symbol;Acc:29165]	
SIKE1	Suppressor of IKBKE 1 [Source:HGNC Symbol;Acc:26119]	
SIL1	SIL1 homolog, endoplasmic reticulum chaperone (S. Cerevisiae) [Source:HGNC Symbol;Acc:24624]	
SIM1	Single-minded homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:10882]	
SIM2	Single-minded homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:10883]	
SIN3A	SIN3 homolog A, transcription regulator (yeast) [Source:HGNC Symbol;Acc:19353]	
SIPA1	Signal-induced proliferation-associated 1 [Source:HGNC Symbol;Acc:10885]	
SIPA1L1	Signal-induced proliferation-associated 1 like 1 [Source:HGNC Symbol;Acc:20284]	
SIPA1L2	Signal-induced proliferation-associated 1 like 2 [Source:HGNC Symbol;Acc:23800]	
SIPA1L3	Signal-induced proliferation-associated 1 like 3 [Source:HGNC Symbol;Acc:23801]	
SIRPB1	Signal-regulatory protein beta 1 [Source:HGNC Symbol;Acc:15928]	
SIRPD	Signal-regulatory protein delta [Source:HGNC Symbol;Acc:16248]	
SIRT5	Sirtuin 5 [Source:HGNC Symbol;Acc:14933]	
SIT1	Signaling threshold regulating transmembrane adaptor 1 [Source:HGNC Symbol;Acc:17710]	
SIVA1	SIVA1, apoptosis-inducing factor [Source:HGNC Symbol;Acc:17712]	
SIX3	SIX homeobox 3 [Source:HGNC Symbol;Acc:10889]	
SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:10890]	
SIX6	SIX homeobox 6 [Source:HGNC Symbol;Acc:10892]	
SKA2	Spindle and kinetochore associated complex subunit 2 [Source:HGNC Symbol;Acc:28006]	
SKAP2	Src kinase associated phosphoprotein 2 [Source:HGNC Symbol;Acc:15687]	
SKIV2L	Superkiller viralicidic activity 2-like (S. Cerevisiae) [Source:HGNC Symbol;Acc:10898]	

SKIV2L2	Superkiller viralicidic activity 2-like 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:18734]	
SKP1	S-phase kinase-associated protein 1 [Source:HGNC Symbol;Acc:10899]	
SLAIN2	SLAIN motif family, member 2 [Source:HGNC Symbol;Acc:29282]	
SLAMF1	Signaling lymphocytic activation molecule family member 1 [Source:HGNC Symbol;Acc:10903]	
SLC10A3	Solute carrier family 10 (sodium/bile acid cotransporter family), member 3 [Source:HGNC Symbol;Acc:22979]	
SLC10A5	Solute carrier family 10 (sodium/bile acid cotransporter family), member 5 [Source:HGNC Symbol;Acc:22981]	
SLC10A7	Solute carrier family 10 (sodium/bile acid cotransporter family), member 7 [Source:HGNC Symbol;Acc:23088]	
SLC12A4	Solute carrier family 12 (potassium/chloride transporters), member 4 [Source:HGNC Symbol;Acc:10913]	
SLC12A5	Solute carrier family 12 (potassium/chloride transporter), member 5 [Source:HGNC Symbol;Acc:13818]	
SLC12A6	Solute carrier family 12 (potassium/chloride transporters), member 6 [Source:HGNC Symbol;Acc:10914]	
SLC15A1	Solute carrier family 15 (oligopeptide transporter), member 1 [Source:HGNC Symbol;Acc:10920]	
SLC15A3	Solute carrier family 15, member 3 [Source:HGNC Symbol;Acc:18068]	
SLC16A1	Solute carrier family 16, member 1 (monocarboxylic acid transporter 1) [Source:HGNC Symbol;Acc:10922]	
SLC16A12	Solute carrier family 16, member 12 (monocarboxylic acid transporter 12) [Source:HGNC Symbol;Acc:23094]	
SLC16A14	Solute carrier family 16, member 14 (monocarboxylic acid transporter 14) [Source:HGNC Symbol;Acc:26417]	
SLC16A3	Solute carrier family 16, member 3 (monocarboxylic acid transporter 4) [Source:HGNC Symbol;Acc:10924]	
SLC16A5	Solute carrier family 16, member 5 (monocarboxylic acid transporter 6) [Source:HGNC Symbol;Acc:10926]	
SLC16A6	Solute carrier family 16, member 6 (monocarboxylic acid transporter 7) [Source:HGNC Symbol;Acc:10927]	

SLC16A7	Solute carrier family 16, member 7 (monocarboxylic acid transporter 2) [Source:HGNC Symbol;Acc:10928]	
SLC16A8	Solute carrier family 16, member 8 (monocarboxylic acid transporter 3) [Source:HGNC Symbol;Acc:16270]	
SLC17A6	Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6 [Source:HGNC Symbol;Acc:16703]	
SLC17A8	Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 8 [Source:HGNC Symbol;Acc:20151]	
SLC18A1	Solute carrier family 18 (vesicular monoamine), member 1 [Source:HGNC Symbol;Acc:10934]	
SLC18A2	Solute carrier family 18 (vesicular monoamine), member 2 [Source:HGNC Symbol;Acc:10935]	
SLC19A1	Solute carrier family 19 (folate transporter), member 1 [Source:HGNC Symbol;Acc:10937]	
SLC19A2	Solute carrier family 19 (thiamine transporter), member 2 [Source:HGNC Symbol;Acc:10938]	
SLC1A1	Solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1 [Source:HGNC Symbol;Acc:10939]	
SLC1A2	Solute carrier family 1 (glial high affinity glutamate transporter), member 2 [Source:HGNC Symbol;Acc:10940]	
SLC1A4	Solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 [Source:HGNC Symbol;Acc:10942]	
SLC1A6	Solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 [Source:HGNC Symbol;Acc:10944]	
SLC1A7	Solute carrier family 1 (glutamate transporter), member 7 [Source:HGNC Symbol;Acc:10945]	
SLC20A2	Solute carrier family 20 (phosphate transporter), member 2 [Source:HGNC Symbol;Acc:10947]	
SLC22A11	Solute carrier family 22 (organic anion/urate transporter), member 11 [Source:HGNC Symbol;Acc:18120]	
SLC22A12	Solute carrier family 22 (organic anion/urate transporter), member 12 [Source:HGNC Symbol;Acc:17989]	

SLC22A13	Solute carrier family 22 (organic anion transporter), member 13 [Source:HGNC Symbol;Acc:8494]	
SLC22A15	Solute carrier family 22, member 15 [Source:HGNC Symbol;Acc:20301]	
SLC22A16	Solute carrier family 22 (organic cation/carnitine transporter), member 16 [Source:HGNC Symbol;Acc:20302]	
SLC22A18	Solute carrier family 22, member 18 [Source:HGNC Symbol;Acc:10964]	
SLC22A2	Solute carrier family 22 (organic cation transporter), member 2 [Source:HGNC Symbol;Acc:10966]	
SLC22A23	Solute carrier family 22, member 23 [Source:HGNC Symbol;Acc:21106]	
SLC22A25	Solute carrier family 22, member 25 [Source:HGNC Symbol;Acc:32935]	
SLC22A3	Solute carrier family 22 (extraneuronal monoamine transporter), member 3 [Source:HGNC Symbol;Acc:10967]	
SLC22A7	Solute carrier family 22 (organic anion transporter), member 7 [Source:HGNC Symbol;Acc:10971]	
SLC22A8	Solute carrier family 22 (organic anion transporter), member 8 [Source:HGNC Symbol;Acc:10972]	
SLC23A1	Solute carrier family 23 (nucleobase transporters), member 1 [Source:HGNC Symbol;Acc:10974]	
SLC23A2	Solute carrier family 23 (nucleobase transporters), member 2 [Source:HGNC Symbol;Acc:10973]	
SLC24A1	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 1 [Source:HGNC Symbol;Acc:10975]	
SLC24A3	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 [Source:HGNC Symbol;Acc:10977]	
SLC24A4	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 4 [Source:HGNC Symbol;Acc:10978]	
SLC25A12	Solute carrier family 25 (mitochondrial carrier, Aralar), member 12 [Source:HGNC Symbol;Acc:10982]	
SLC25A14	Solute carrier family 25 (mitochondrial carrier, brain), member 14 [Source:HGNC Symbol;Acc:10984]	
SLC25A17	Solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kda), member 17 [Source:HGNC Symbol;Acc:10987]	

SLC25A19	Solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19 [Source:HGNC Symbol;Acc:14409]	
SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25 [Source:HGNC Symbol;Acc:20663]	
SLC25A29	Solute carrier family 25, member 29 [Source:HGNC Symbol;Acc:20116]	
SLC25A3	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3 [Source:HGNC Symbol;Acc:10989]	
SLC25A30	Solute carrier family 25, member 30 [Source:HGNC Symbol;Acc:27371]	
SLC25A32	Solute carrier family 25, member 32 [Source:HGNC Symbol;Acc:29683]	
SLC25A37	Solute carrier family 25, member 37 [Source:HGNC Symbol;Acc:29786]	
SLC25A38	Solute carrier family 25, member 38 [Source:HGNC Symbol;Acc:26054]	
SLC25A40	Solute carrier family 25, member 40 [Source:HGNC Symbol;Acc:29680]	
SLC25A48	Solute carrier family 25, member 48 [Source:HGNC Symbol;Acc:30451]	
SLC26A1	Solute carrier family 26 (sulfate transporter), member 1 [Source:HGNC Symbol;Acc:10993]	
SLC26A10	Solute carrier family 26, member 10 [Source:HGNC Symbol;Acc:14470]	
SLC26A11	Solute carrier family 26, member 11 [Source:HGNC Symbol;Acc:14471]	
SLC26A2	Solute carrier family 26 (sulfate transporter), member 2 [Source:HGNC Symbol;Acc:10994]	
SLC26A4	Solute carrier family 26, member 4 [Source:HGNC Symbol;Acc:8818]	
SLC27A4	Solute carrier family 27 (fatty acid transporter), member 4 [Source:HGNC Symbol;Acc:10998]	
SLC29A2	Solute carrier family 29 (nucleoside transporters), member 2 [Source:HGNC Symbol;Acc:11004]	
SLC29A3	Solute carrier family 29 (nucleoside transporters), member 3 [Source:HGNC Symbol;Acc:23096]	
SLC2A1	Solute carrier family 2 (facilitated glucose transporter), member 1 [Source:HGNC Symbol;Acc:11005]	
SLC2A13	Solute carrier family 2 (facilitated glucose transporter), member 13 [Source:HGNC Symbol;Acc:15956]	
SLC2A2	Solute carrier family 2 (facilitated glucose transporter), member 2 [Source:HGNC Symbol;Acc:11006]	
SLC2A4RG	SLC2A4 regulator [Source:HGNC Symbol;Acc:15930]	

SLC30A1	Solute carrier family 30 (zinc transporter), member 1 [Source:HGNC Symbol;Acc:11012]	
SLC30A4	Solute carrier family 30 (zinc transporter), member 4 [Source:HGNC Symbol;Acc:11015]	
SLC30A9	Solute carrier family 30 (zinc transporter), member 9 [Source:HGNC Symbol;Acc:1329]	
SLC34A1	Solute carrier family 34 (sodium phosphate), member 1 [Source:HGNC Symbol;Acc:11019]	
SLC35A1	Solute carrier family 35 (CMP-sialic acid transporter), member A1 [Source:HGNC Symbol;Acc:11021]	
SLC35A3	Solute carrier family 35 (UDP-N-acetylglucosamine (UDP-glcnac) transporter), member A3 [Source:HGNC Symbol;Acc:11023]	
SLC35A4	Solute carrier family 35, member A4 [Source:HGNC Symbol;Acc:20753]	
SLC35B1	Solute carrier family 35, member B1 [Source:HGNC Symbol;Acc:20798]	
SLC35B3	Solute carrier family 35, member B3 [Source:HGNC Symbol;Acc:21601]	
SLC35B4	Solute carrier family 35, member B4 [Source:HGNC Symbol;Acc:20584]	
SLC35C2	Solute carrier family 35, member C2 [Source:HGNC Symbol;Acc:17117]	
SLC35D1	Solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1 [Source:HGNC Symbol;Acc:20800]	
SLC35D2	Solute carrier family 35, member D2 [Source:HGNC Symbol;Acc:20799]	
SLC35D3	Solute carrier family 35, member D3 [Source:HGNC Symbol;Acc:15621]	
SLC35E1	Solute carrier family 35, member E1 [Source:HGNC Symbol;Acc:20803]	
SLC35E2	Solute carrier family 35, member E2 [Source:HGNC Symbol;Acc:20863]	
SLC35E2B	Solute carrier family 35, member E2B [Source:HGNC Symbol;Acc:33941]	
SLC35F1	Solute carrier family 35, member F1 [Source:HGNC Symbol;Acc:21483]	
SLC36A1	Solute carrier family 36 (proton/amino acid symporter), member 1 [Source:HGNC Symbol;Acc:18761]	
SLC36A4	Solute carrier family 36 (proton/amino acid symporter), member 4 [Source:HGNC Symbol;Acc:19660]	
SLC37A1	Solute carrier family 37 (glycerol-3-phosphate transporter), member 1 [Source:HGNC Symbol;Acc:11024]	
SLC37A3	Solute carrier family 37 (glycerol-3-phosphate transporter), member 3 [Source:HGNC Symbol;Acc:20651]	

SLC38A1	Solute carrier family 38, member 1 [Source:HGNC Symbol;Acc:13447]	
SLC38A10	Solute carrier family 38, member 10 [Source:HGNC Symbol;Acc:28237]	
SLC38A2	Solute carrier family 38, member 2 [Source:HGNC Symbol;Acc:13448]	
SLC38A4	Solute carrier family 38, member 4 [Source:HGNC Symbol;Acc:14679]	
SLC38A6	Solute carrier family 38, member 6 [Source:HGNC Symbol;Acc:19863]	
SLC38A7	Solute carrier family 38, member 7 [Source:HGNC Symbol;Acc:25582]	
SLC39A10	Solute carrier family 39 (zinc transporter), member 10 [Source:HGNC Symbol;Acc:20861]	
SLC39A13	Solute carrier family 39 (zinc transporter), member 13 [Source:HGNC Symbol;Acc:20859]	
SLC39A14	Solute carrier family 39 (zinc transporter), member 14 [Source:HGNC Symbol;Acc:20858]	
SLC39A2	Solute carrier family 39 (zinc transporter), member 2 [Source:HGNC Symbol;Acc:17127]	
SLC39A3	Solute carrier family 39 (zinc transporter), member 3 [Source:HGNC Symbol;Acc:17128]	
SLC39A4	Solute carrier family 39 (zinc transporter), member 4 [Source:HGNC Symbol;Acc:17129]	
SLC39A8	Solute carrier family 39 (zinc transporter), member 8 [Source:HGNC Symbol;Acc:20862]	
SLC3A1	Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1 [Source:HGNC Symbol;Acc:11025]	
SLC3A2	Solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 [Source:HGNC Symbol;Acc:11026]	
SLC45A3	Solute carrier family 45, member 3	√
SLC46A1	Solute carrier family 46 (folate transporter), member 1 [Source:HGNC Symbol;Acc:30521]	
SLC46A2	Solute carrier family 46, member 2 [Source:HGNC Symbol;Acc:16055]	
SLC48A1	Solute carrier family 48 (heme transporter), member 1 [Source:HGNC Symbol;Acc:26035]	
SLC4A1	Solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group) [Source:HGNC Symbol;Acc:11027]	

SLC4A10	Solute carrier family 4, sodium bicarbonate transporter, member 10 [Source:HGNC Symbol;Acc:13811]	
SLC4A2	Solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1) [Source:HGNC Symbol;Acc:11028]	
SLC4A4	Solute carrier family 4, sodium bicarbonate cotransporter, member 4 [Source:HGNC Symbol;Acc:11030]	
SLC4A5	Solute carrier family 4, sodium bicarbonate cotransporter, member 5 [Source:HGNC Symbol;Acc:18168]	
SLC5A1	Solute carrier family 5 (sodium/glucose cotransporter), member 1 [Source:HGNC Symbol;Acc:11036]	
SLC5A10	Solute carrier family 5 (sodium/glucose cotransporter), member 10 [Source:HGNC Symbol;Acc:23155]	
SLC5A11	Solute carrier family 5 (sodium/glucose cotransporter), member 11 [Source:HGNC Symbol;Acc:23091]	
SLC5A3	Solute carrier family 5 (sodium/myo-inositol cotransporter), member 3 [Source:HGNC Symbol;Acc:11038]	
SLC5A4	Solute carrier family 5 (low affinity glucose cotransporter), member 4 [Source:HGNC Symbol;Acc:11039]	
SLC5A9	Solute carrier family 5 (sodium/glucose cotransporter), member 9 [Source:HGNC Symbol;Acc:22146]	
SLC6A1	Solute carrier family 6 (neurotransmitter transporter, GABA), member 1 [Source:HGNC Symbol;Acc:11042]	
SLC6A12	Solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12 [Source:HGNC Symbol;Acc:11045]	
SLC6A13	Solute carrier family 6 (neurotransmitter transporter, GABA), member 13 [Source:HGNC Symbol;Acc:11046]	
SLC6A17	Solute carrier family 6, member 17 [Source:HGNC Symbol;Acc:31399]	
SLC6A19	Solute carrier family 6 (neutral amino acid transporter), member 19 [Source:HGNC Symbol;Acc:27960]	
SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20 [Source:HGNC Symbol;Acc:30927]	
SLC6A3	Solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 [Source:HGNC Symbol;Acc:11049]	

SLC6A4	Solute carrier family 6 (neurotransmitter transporter, serotonin), member 4 [Source:HGNC Symbol;Acc:11050]	
SLC6A6	Solute carrier family 6 (neurotransmitter transporter, taurine), member 6 [Source:HGNC Symbol;Acc:11052]	
SLC6A8	Solute carrier family 6 (neurotransmitter transporter, creatine), member 8 [Source:HGNC Symbol;Acc:11055]	
SLC6A9	Solute carrier family 6 (neurotransmitter transporter, glycine), member 9 [Source:HGNC Symbol;Acc:11056]	
SLC7A1	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 [Source:HGNC Symbol;Acc:11057]	
SLC7A11	Solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 [Source:HGNC Symbol;Acc:11059]	
SLC7A14	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 14 [Source:HGNC Symbol;Acc:29326]	
SLC7A6	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 [Source:HGNC Symbol;Acc:11064]	
SLC7A6OS	Solute carrier family 7, member 6 opposite strand [Source:HGNC Symbol;Acc:25807]	
SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 1 [Source:HGNC Symbol;Acc:11068]	
SLC9A1	Solute carrier family 9 (sodium/hydrogen exchanger), member 1 [Source:HGNC Symbol;Acc:11071]	
SLC9A2	Solute carrier family 9 (sodium/hydrogen exchanger), member 2 [Source:HGNC Symbol;Acc:11072]	
SLC9A3	Solute carrier family 9 (sodium/hydrogen exchanger), member 3 [Source:HGNC Symbol;Acc:11073]	
SLC9A4	Solute carrier family 9 (sodium/hydrogen exchanger), member 4 [Source:HGNC Symbol;Acc:11077]	
SLC9A6	Solute carrier family 9 (sodium/hydrogen exchanger), member 6 [Source:HGNC Symbol;Acc:11079]	
SLCO1A2	Solute carrier organic anion transporter family, member 1A2 [Source:HGNC Symbol;Acc:10956]	

SLCO2A1	Solute carrier organic anion transporter family, member 2A1 [Source:HGNC Symbol;Acc:10955]	
SLCO4A1	Solute carrier organic anion transporter family, member 4A1 [Source:HGNC Symbol;Acc:10953]	
SLCO6A1	Solute carrier organic anion transporter family, member 6A1 [Source:HGNC Symbol;Acc:23613]	
SLFN5	Schlafen family member 5 [Source:HGNC Symbol;Acc:28286]	
SLIT1	Slit homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:11085]	
SLIT2	Slit homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11086]	
SLIT3	Slit homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:11087]	
SLITRK2	SLIT and NTRK-like family, member 2 [Source:HGNC Symbol;Acc:13449]	
SLITRK5	SLIT and NTRK-like family, member 5 [Source:HGNC Symbol;Acc:20295]	
SLK	STE20-like kinase [Source:HGNC Symbol;Acc:11088]	
SLMAP	Sarcolemma associated protein [Source:HGNC Symbol;Acc:16643]	
SLMO1	Slowmo homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:24639]	
SLN	Sarcolipin [Source:HGNC Symbol;Acc:11089]	
SMAD3	SMAD family member 3 [Source:HGNC Symbol;Acc:6769]	
SMAD4	SMAD family member 4 [Source:HGNC Symbol;Acc:6770]	
SMAD5	SMAD family member 5 [Source:HGNC Symbol;Acc:6771]	
SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:6773]	
SMAP2	Small arfgap2 [Source:HGNC Symbol;Acc:25082]	
SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 [Source:HGNC Symbol;Acc:11097]	
SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 [Source:HGNC Symbol;Acc:11101]	
SMARCC2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 [Source:HGNC Symbol;Acc:11105]	
SMC1A	Structural maintenance of chromosomes 1A [Source:HGNC Symbol;Acc:11111]	
SMC1B	Structural maintenance of chromosomes 1B [Source:HGNC Symbol;Acc:11112]	

SMC2	Structural maintenance of chromosomes 2 [Source:HGNC Symbol;Acc:14011]	
SMC4	Structural maintenance of chromosomes 4 [Source:HGNC Symbol;Acc:14013]	
SMC6	Structural maintenance of chromosomes 6 [Source:HGNC Symbol;Acc:20466]	
SMCHD1	Structural maintenance of chromosomes flexible hinge domain containing 1 [Source:HGNC Symbol;Acc:29090]	
SMCR7	Smith-Magenis syndrome chromosome region, candidate 7 [Source:HGNC Symbol;Acc:17920]	
SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like [Source:HGNC Symbol;Acc:25979]	
SMG1	SMG1 homolog, phosphatidylinositol 3-kinase-related kinase (C. Elegans) [Source:HGNC Symbol;Acc:30045]	
SMG5	Smg-5 homolog, nonsense mediated mrna decay factor (C. Elegans) [Source:HGNC Symbol;Acc:24644]	
SMG6	Smg-6 homolog, nonsense mediated mrna decay factor (C. Elegans) [Source:HGNC Symbol;Acc:17809]	
SMG7	Smg-7 homolog, nonsense mediated mrna decay factor (C. Elegans) [Source:HGNC Symbol;Acc:16792]	
SMO	Smoothened homolog (Drosophila)	√
SMPD4	Sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3) [Source:HGNC Symbol;Acc:32949]	
SMPDL3A	Sphingomyelin phosphodiesterase, acid-like 3A [Source:HGNC Symbol;Acc:17389]	
SMPX	Small muscle protein, X-linked [Source:HGNC Symbol;Acc:11122]	
SMTN	Smoothelin [Source:HGNC Symbol;Acc:11126]	
SMU1	Smu-1 suppressor of mec-8 and unc-52 homolog (C. Elegans) [Source:HGNC Symbol;Acc:18247]	
SMURF1	SMAD specific E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:16807]	
SMYD1	SET and MYND domain containing 1 [Source:HGNC Symbol;Acc:20986]	
SMYD4	SET and MYND domain containing 4 [Source:HGNC Symbol;Acc:21067]	

SMYD5	SMYD family member 5 [Source:HGNC Symbol;Acc:16258]	
SNAP25	Synaptosomal-associated protein, 25kda [Source:HGNC Symbol;Acc:11132]	
SNCAIP	Synuclein, alpha interacting protein [Source:HGNC Symbol;Acc:11139]	
SNED1	Sushi, nidogen and EGF-like domains 1 [Source:HGNC Symbol;Acc:24696]	
SNRK	SNF related kinase [Source:HGNC Symbol;Acc:30598]	
SNRNP200	Small nuclear ribonucleoprotein 200kda (U5) [Source:HGNC Symbol;Acc:30859]	
SNRNP70	Small nuclear ribonucleoprotein 70kda (U1) [Source:HGNC Symbol;Acc:11150]	
SNRPD1	Small nuclear ribonucleoprotein D1 polypeptide 16kda [Source:HGNC Symbol;Acc:11158]	
SNRPD3	Small nuclear ribonucleoprotein D3 polypeptide 18kda [Source:HGNC Symbol;Acc:11160]	
SNRPE	Small nuclear ribonucleoprotein polypeptide E [Source:HGNC Symbol;Acc:11161]	
SNRPN	Small nuclear ribonucleoprotein polypeptide N [Source:HGNC Symbol;Acc:11164]	
SNTB2	Syntrophin, beta 2 (dystrophin-associated protein A1, 59kda, basic component 2) [Source:HGNC Symbol;Acc:11169]	
SNURF	SNRPN upstream reading frame [Source:HGNC Symbol;Acc:11171]	
SNX1	Sorting nexin 1 [Source:HGNC Symbol;Acc:11172]	
SNX10	Sorting nexin 10 [Source:HGNC Symbol;Acc:14974]	
SNX13	Sorting nexin 13 [Source:HGNC Symbol;Acc:21335]	
SNX19	Sorting nexin 19 [Source:HGNC Symbol;Acc:21532]	
SNX24	Sorting nexin 24 [Source:HGNC Symbol;Acc:21533]	
SNX25	Sorting nexin 25 [Source:HGNC Symbol;Acc:21883]	
SNX29	Sorting nexin 29 [Source:HGNC Symbol;Acc:30542]	
SNX30	Sorting nexin family member 30 [Source:HGNC Symbol;Acc:23685]	
SNX33	Sorting nexin 33 [Source:HGNC Symbol;Acc:28468]	
SNX4	Sorting nexin 4 [Source:HGNC Symbol;Acc:11175]	
SNX5	Sorting nexin 5 [Source:HGNC Symbol;Acc:14969]	
SNX7	Sorting nexin 7 [Source:HGNC Symbol;Acc:14971]	

SOAT1	Sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:11177]	
SOCS4	Suppressor of cytokine signaling 4 [Source:HGNC Symbol;Acc:19392]	
SOCS5	Suppressor of cytokine signaling 5 [Source:HGNC Symbol;Acc:16852]	
SOD2	Superoxide dismutase 2, mitochondrial [Source:HGNC Symbol;Acc:11180]	
SOHLH1	Spermatogenesis and oogenesis specific basic helix-loop-helix 1 [Source:HGNC Symbol;Acc:27845]	
SOLH	Small optic lobes homolog (Drosophila) [Source:HGNC Symbol;Acc:11182]	
SORBS2	Sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:24098]	
SORBS3	Sorbin and SH3 domain containing 3 [Source:HGNC Symbol;Acc:30907]	
SORCS1	Sortilin-related VPS10 domain containing receptor 1 [Source:HGNC Symbol;Acc:16697]	
SORCS2	Sortilin-related VPS10 domain containing receptor 2 [Source:HGNC Symbol;Acc:16698]	
SORCS3	Sortilin-related VPS10 domain containing receptor 3 [Source:HGNC Symbol;Acc:16699]	
SORL1	Sortilin-related receptor, L(DLR class) A repeats containing [Source:HGNC Symbol;Acc:11185]	
SORT1	Sortilin 1 [Source:HGNC Symbol;Acc:11186]	
SOS1	Son of sevenless homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:11187]	
SOS2	Son of sevenless homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11188]	
SOX13	SRY (sex determining region Y)-box 13 [Source:HGNC Symbol;Acc:11192]	
SOX2	SRY (sex determining region Y)-box 2	√
SOX6	SRY (sex determining region Y)-box 6 [Source:HGNC Symbol;Acc:16421]	
SOX7	SRY (sex determining region Y)-box 7 [Source:HGNC Symbol;Acc:18196]	
SOX9	SRY (sex determining region Y)-box 9 [Source:HGNC Symbol;Acc:11204]	
SP110	SP110 nuclear body protein [Source:HGNC Symbol;Acc:5401]	
SP140	SP140 nuclear body protein [Source:HGNC Symbol;Acc:17133]	
SP140L	SP140 nuclear body protein-like [Source:HGNC Symbol;Acc:25105]	
SP2	Sp2 transcription factor [Source:HGNC Symbol;Acc:11207]	
SP3	Sp3 transcription factor [Source:HGNC Symbol;Acc:11208]	

SP8	Sp8 transcription factor [Source:HGNC Symbol;Acc:19196]	
SPAG11A	Sperm associated antigen 11A [Source:HGNC Symbol;Acc:33342]	
SPAG11B	Sperm associated antigen 11B [Source:HGNC Symbol;Acc:14534]	
SPAG16	Sperm associated antigen 16 [Source:HGNC Symbol;Acc:23225]	
SPAG5	Sperm associated antigen 5 [Source:HGNC Symbol;Acc:13452]	
SPAG6	Sperm associated antigen 6 [Source:HGNC Symbol;Acc:11215]	
SPAG9	Sperm associated antigen 9 [Source:HGNC Symbol;Acc:14524]	
SPATA13	Spermatogenesis associated 13 [Source:HGNC Symbol;Acc:23222]	
SPATA17	Spermatogenesis associated 17 [Source:HGNC Symbol;Acc:25184]	
SPATA20	Spermatogenesis associated 20 [Source:HGNC Symbol;Acc:26125]	
SPATA5	Spermatogenesis associated 5 [Source:HGNC Symbol;Acc:18119]	
SPATA7	Spermatogenesis associated 7 [Source:HGNC Symbol;Acc:20423]	
SPATA9	Spermatogenesis associated 9 [Source:HGNC Symbol;Acc:22988]	
SPDYE4	Speedy homolog E4 (Xenopus laevis) [Source:HGNC Symbol;Acc:35463]	
SPECC1	Sperm antigen with calponin homology and coiled-coil domains 1 [Source:HGNC Symbol;Acc:30615]	
SPEF2	Sperm flagellar 2 [Source:HGNC Symbol;Acc:26293]	
SPEG	SPEG complex locus [Source:HGNC Symbol;Acc:16901]	
SPEN	Spen homolog, transcriptional regulator (Drosophila) [Source:HGNC Symbol;Acc:17575]	
SPG11	Spastic paraplegia 11 (autosomal recessive) [Source:HGNC Symbol;Acc:11226]	
SPG21	Spastic paraplegia 21 (autosomal recessive, Mast syndrome) [Source:HGNC Symbol;Acc:20373]	
SPHK1	Sphingosine kinase 1 [Source:HGNC Symbol;Acc:11240]	
SPHKAP	SPHK1 interactor, AKAP domain containing [Source:HGNC Symbol;Acc:30619]	
SPINK13	Serine peptidase inhibitor, Kazal type 13 (putative) [Source:HGNC Symbol;Acc:27200]	
SPINK7	Serine peptidase inhibitor, Kazal type 7 (putative) [Source:HGNC Symbol;Acc:24643]	
SPINT2	Serine peptidase inhibitor, Kunitz type, 2 [Source:HGNC Symbol;Acc:11247]	

SPIRE1	Spire homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:30622]	
SPN	Sialophorin [Source:HGNC Symbol;Acc:11249]	
SPNS1	Spinster homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:30621]	
SPOCK1	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1 [Source:HGNC Symbol;Acc:11251]	
SPOCK2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2 [Source:HGNC Symbol;Acc:13564]	
SPOCK3	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 [Source:HGNC Symbol;Acc:13565]	
SPON2	Spondin 2, extracellular matrix protein [Source:HGNC Symbol;Acc:11253]	
SPOP	Speckle-type POZ protein [Source:HGNC Symbol;Acc:11254]	
SPOPL	Speckle-type POZ protein-like [Source:HGNC Symbol;Acc:27934]	
SPRED1	Sprouty-related, EVH1 domain containing 1 [Source:HGNC Symbol;Acc:20249]	
SPRY4	Sprouty homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:15533]	
SPSB3	Spla/Ryanodine receptor domain and SOCS box containing 3 [Source:HGNC Symbol;Acc:30629]	
SPTA1	Spectrin, alpha, erythrocytic 1 (elliptocytosis 2) [Source:HGNC Symbol;Acc:11272]	
SPTB	Spectrin, beta, erythrocytic [Source:HGNC Symbol;Acc:11274]	
SPTLC2	Serine palmitoyltransferase, long chain base subunit 2 [Source:HGNC Symbol;Acc:11278]	
SPZ1	Spermatogenic leucine zipper 1 [Source:HGNC Symbol;Acc:30721]	
SQSTM1	Sequestosome 1 [Source:HGNC Symbol;Acc:11280]	
SRA1	Steroid receptor RNA activator 1 [Source:HGNC Symbol;Acc:11281]	
SRC	V-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) [Source:HGNC Symbol;Acc:11283]	
SRCAP	Snf2-related CREBBP activator protein [Source:HGNC Symbol;Acc:16974]	
SRCIN1	SRC kinase signaling inhibitor 1 [Source:HGNC Symbol;Acc:29506]	
SREBF1	Sterol regulatory element binding transcription factor 1 [Source:HGNC Symbol;Acc:11289]	

SREBF2	Sterol regulatory element binding transcription factor 2 [Source:HGNC Symbol;Acc:11290]	
SREK1	Splicing regulatory glutamine/lysine-rich protein 1 [Source:HGNC Symbol;Acc:17882]	
SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	√
SRI	Sorcin [Source:HGNC Symbol;Acc:11292]	
SRP72	Signal recognition particle 72kda [Source:HGNC Symbol;Acc:11303]	
SRPK1	SRSF protein kinase 1 [Source:HGNC Symbol;Acc:11305]	
SRPK2	SRSF protein kinase 2 [Source:HGNC Symbol;Acc:11306]	
SRPK3	SRSF protein kinase 3 [Source:HGNC Symbol;Acc:11402]	
SRRM4	Serine/arginine repetitive matrix 4 [Source:HGNC Symbol;Acc:29389]	
SRRT	Serrate RNA effector molecule homolog (Arabidopsis) [Source:HGNC Symbol;Acc:24101]	
SRSF1	Serine/arginine-rich splicing factor 1 [Source:HGNC Symbol;Acc:10780]	
SRSF10	Serine/arginine-rich splicing factor 10 [Source:HGNC Symbol;Acc:16713]	
SRSF11	Serine/arginine-rich splicing factor 11 [Source:HGNC Symbol;Acc:10782]	
SS18	Synovial sarcoma translocation, chromosome 18	√
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	√
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1 [Source:HGNC Symbol;Acc:15592]	
SSBP1	Single-stranded DNA binding protein 1 [Source:HGNC Symbol;Acc:11317]	
SSBP2	Single-stranded DNA binding protein 2 [Source:HGNC Symbol;Acc:15831]	
SSC5D	Scavenger receptor cysteine rich domain containing (5 domains) [Source:HGNC Symbol;Acc:26641]	
SSH1	Slingshot homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:30579]	
SSH2	Slingshot homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:30580]	
SSH3	Slingshot homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:30581]	
SSR3	Signal sequence receptor, gamma (translocon-associated protein gamma) [Source:HGNC Symbol;Acc:11325]	
SSRP1	Structure specific recognition protein 1 [Source:HGNC Symbol;Acc:11327]	
SSTR1	Somatostatin receptor 1 [Source:HGNC Symbol;Acc:11330]	
SSTR2	Somatostatin receptor 2 [Source:HGNC Symbol;Acc:11331]	
SSTR5	Somatostatin receptor 5 [Source:HGNC Symbol;Acc:11334]	

SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25016]	
SSX1	Synovial sarcoma, X breakpoint 1 [Source:HGNC Symbol;Acc:11335]	√
SSX2	Synovial sarcoma, X breakpoint 2 [Source:HGNC Symbol;Acc:11336]	√
SSX2B	Synovial sarcoma, X breakpoint 2B [Source:HGNC Symbol;Acc:22263]	
SSX3	Synovial sarcoma, X breakpoint 3 [Source:HGNC Symbol;Acc:11337]	
SSX4	Synovial sarcoma, X breakpoint 4 [Source:HGNC Symbol;Acc:11338]	√
SSX4B	Synovial sarcoma, X breakpoint 4B [Source:HGNC Symbol;Acc:16880]	
SSX5	Synovial sarcoma, X breakpoint 5 [Source:HGNC Symbol;Acc:11339]	
SSX6	Synovial sarcoma, X breakpoint 6 (pseudogene) [Source:HGNC Symbol;Acc:19652]	
SSX7	Synovial sarcoma, X breakpoint 7 [Source:HGNC Symbol;Acc:19653]	
SSX9	Synovial sarcoma, X breakpoint 9 [Source:HGNC Symbol;Acc:19655]	
ST13	Suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) [Source:HGNC Symbol;Acc:11343]	
ST18	Suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein) [Source:HGNC Symbol;Acc:18695]	
ST5	Suppression of tumorigenicity 5 [Source:HGNC Symbol;Acc:11350]	
ST6GAL2	ST6 beta-galactosamide alpha-2,6-sialyltranferase 2 [Source:HGNC Symbol;Acc:10861]	
ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3 [Source:HGNC Symbol;Acc:19343]	
ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5 [Source:HGNC Symbol;Acc:19342]	
ST6GALNAC6	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6 [Source:HGNC Symbol;Acc:23364]	
ST7L	Suppression of tumorigenicity 7 like [Source:HGNC Symbol;Acc:18441]	
ST8SIA2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2 [Source:HGNC Symbol;Acc:10870]	

ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 [Source:HGNC Symbol;Acc:10871]	
STAB1	Stabilin 1 [Source:HGNC Symbol;Acc:18628]	
STAB2	Stabilin 2 [Source:HGNC Symbol;Acc:18629]	
STAC2	SH3 and cysteine rich domain 2 [Source:HGNC Symbol;Acc:23990]	
STAG1	Stromal antigen 1 [Source:HGNC Symbol;Acc:11354]	
STAG2	Stromal antigen 2 [Source:HGNC Symbol;Acc:11355]	√
STARD3	Star-related lipid transfer (START) domain containing 3 [Source:HGNC Symbol;Acc:17579]	
STARD4	Star-related lipid transfer (START) domain containing 4 [Source:HGNC Symbol;Acc:18058]	
STARD5	Star-related lipid transfer (START) domain containing 5 [Source:HGNC Symbol;Acc:18065]	
STARD7	Star-related lipid transfer (START) domain containing 7 [Source:HGNC Symbol;Acc:18063]	
STARD9	Star-related lipid transfer (START) domain containing 9 [Source:HGNC Symbol;Acc:19162]	
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor) [Source:HGNC Symbol;Acc:11364]	√
STAT4	Signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:11365]	
STAT5A	Signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:11366]	
STAT6	Signal transducer and activator of transcription 6, interleukin-4 induced [Source:HGNC Symbol;Acc:11368]	
STBD1	Starch binding domain 1 [Source:HGNC Symbol;Acc:24854]	
STC1	Stanniocalcin 1 [Source:HGNC Symbol;Acc:11373]	
STC2	Stanniocalcin 2 [Source:HGNC Symbol;Acc:11374]	
STEAP3	STEAP family member 3 [Source:HGNC Symbol;Acc:24592]	
STEAP4	STEAP family member 4 [Source:HGNC Symbol;Acc:21923]	
STIL	SCL/TAL1 interrupting locus [Source:HGNC Symbol;Acc:10879]	
STIM2	Stromal interaction molecule 2 [Source:HGNC Symbol;Acc:19205]	
STIP1	Stress-induced-phosphoprotein 1 [Source:HGNC Symbol;Acc:11387]	

STK3	Serine/threonine kinase 3 [Source:HGNC Symbol;Acc:11406]	
STK31	Serine/threonine kinase 31 [Source:HGNC Symbol;Acc:11407]	
STK32B	Serine/threonine kinase 32B [Source:HGNC Symbol;Acc:14217]	
STK35	Serine/threonine kinase 35 [Source:HGNC Symbol;Acc:16254]	
STK36	Serine/threonine kinase 36 [Source:HGNC Symbol;Acc:17209]	
STK38L	Serine/threonine kinase 38 like [Source:HGNC Symbol;Acc:17848]	
STK39	Serine threonine kinase 39 [Source:HGNC Symbol;Acc:17717]	
STK4	Serine/threonine kinase 4 [Source:HGNC Symbol;Acc:11408]	
STON1	Stonin 1 [Source:HGNC Symbol;Acc:17003]	
STOX1	Storkhead box 1 [Source:HGNC Symbol;Acc:23508]	
STOX2	Storkhead box 2 [Source:HGNC Symbol;Acc:25450]	
STRA6	Stimulated by retinoic acid gene 6 homolog (mouse) [Source:HGNC Symbol;Acc:30650]	
STRADA	STE20-related kinase adaptor alpha [Source:HGNC Symbol;Acc:30172]	
STRAP	Serine/threonine kinase receptor associated protein [Source:HGNC Symbol;Acc:30796]	
STRBP	Spermatid perinuclear RNA binding protein [Source:HGNC Symbol;Acc:16462]	
STRC	Stereocilin [Source:HGNC Symbol;Acc:16035]	
STRN4	Striatin, calmodulin binding protein 4 [Source:HGNC Symbol;Acc:15721]	
STS	Steroid sulfatase (microsomal), isozyme S [Source:HGNC Symbol;Acc:11425]	
STT3B	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. Cerevisiae) [Source:HGNC Symbol;Acc:30611]	
STX12	Syntaxin 12 [Source:HGNC Symbol;Acc:11430]	
STX16	Syntaxin 16 [Source:HGNC Symbol;Acc:11431]	
STX17	Syntaxin 17 [Source:HGNC Symbol;Acc:11432]	
STX2	Syntaxin 2 [Source:HGNC Symbol;Acc:3403]	
STXBP4	Syntaxin binding protein 4 [Source:HGNC Symbol;Acc:19694]	
STXBP5L	Syntaxin binding protein 5-like [Source:HGNC Symbol;Acc:30757]	
STXBP6	Syntaxin binding protein 6 (amisyn) [Source:HGNC Symbol;Acc:19666]	
SUGP1	SURP and G patch domain containing 1 [Source:HGNC Symbol;Acc:18643]	

SUGP2	SURP and G patch domain containing 2 [Source:HGNC Symbol;Acc:18641]	
SULF2	Sulfatase 2 [Source:HGNC Symbol;Acc:20392]	
SULT1A1	Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 [Source:HGNC Symbol;Acc:11453]	
SULT1A2	Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2 [Source:HGNC Symbol;Acc:11454]	
SULT1A3	Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:HGNC Symbol;Acc:11455]	
SULT1A4	Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 4 [Source:HGNC Symbol;Acc:30004]	
SULT1C4	Sulfotransferase family, cytosolic, 1C, member 4 [Source:HGNC Symbol;Acc:11457]	
SULT4A1	Sulfotransferase family 4A, member 1 [Source:HGNC Symbol;Acc:14903]	
SUMF1	Sulfatase modifying factor 1 [Source:HGNC Symbol;Acc:20376]	
SUMO3	SMT3 suppressor of mif two 3 homolog 3 (S. Cerevisiae) [Source:HGNC Symbol;Acc:11124]	
SUN1	Sad1 and UNC84 domain containing 1 [Source:HGNC Symbol;Acc:18587]	
SUN5	Sad1 and UNC84 domain containing 5 [Source:HGNC Symbol;Acc:16252]	
SUOX	Sulfite oxidase [Source:HGNC Symbol;Acc:11460]	
SUPT3H	Suppressor of Ty 3 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:11466]	
SUPT5H	Suppressor of Ty 5 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:11469]	
SURF4	Surfeit 4 [Source:HGNC Symbol;Acc:11476]	
SUSD1	Sushi domain containing 1 [Source:HGNC Symbol;Acc:25413]	
SUSD2	Sushi domain containing 2 [Source:HGNC Symbol;Acc:30667]	
SUSD4	Sushi domain containing 4 [Source:HGNC Symbol;Acc:25470]	
SUSD5	Sushi domain containing 5 [Source:HGNC Symbol;Acc:29061]	
SUV420H1	Suppressor of variegation 4-20 homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:24283]	
SUZ12	Suppressor of zeste 12 homolog (Drosophila) [Source:HGNC Symbol;Acc:17101]	√

SV2B	Synaptic vesicle glycoprotein 2B [Source:HGNC Symbol;Acc:16874]	
SV2C	Synaptic vesicle glycoprotein 2C [Source:HGNC Symbol;Acc:30670]	
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 [Source:HGNC Symbol;Acc:15985]	
SVIL	Supervillin [Source:HGNC Symbol;Acc:11480]	
SVOP	SV2 related protein homolog (rat) [Source:HGNC Symbol;Acc:25417]	
SYBU	Syntabulin (syntaxin-interacting) [Source:HGNC Symbol;Acc:26011]	
SYK	Spleen tyrosine kinase [Source:HGNC Symbol;Acc:11491]	
SYMPK	Symplekin [Source:HGNC Symbol;Acc:22935]	
SYN1	Synapsin I [Source:HGNC Symbol;Acc:11494]	
SYN2	Synapsin II [Source:HGNC Symbol;Acc:11495]	
SYNC	Syncoilin, intermediate filament protein [Source:HGNC Symbol;Acc:28897]	
SYNCRIP	Synaptotagmin binding, cytoplasmic RNA interacting protein [Source:HGNC Symbol;Acc:16918]	
SYNE1	Spectrin repeat containing, nuclear envelope 1 [Source:HGNC Symbol;Acc:17089]	
SYNE2	Spectrin repeat containing, nuclear envelope 2 [Source:HGNC Symbol;Acc:17084]	
SYNGAP1	Synaptic Ras gtpase activating protein 1 [Source:HGNC Symbol;Acc:11497]	
SYNGR1	Synaptogyrin 1 [Source:HGNC Symbol;Acc:11498]	
SYNJ1	Synaptojanin 1 [Source:HGNC Symbol;Acc:11503]	
SYNJ2	Synaptojanin 2 [Source:HGNC Symbol;Acc:11504]	
SYNJ2BP	Synaptojanin 2 binding protein [Source:HGNC Symbol;Acc:18955]	
SYNM	Synemin, intermediate filament protein [Source:HGNC Symbol;Acc:24466]	
SYNPO	Synaptopodin [Source:HGNC Symbol;Acc:30672]	
SYNPO2	Synaptopodin 2 [Source:HGNC Symbol;Acc:17732]	
SYNPO2L	Synaptopodin 2-like [Source:HGNC Symbol;Acc:23532]	
SYNRG	Synergin, gamma [Source:HGNC Symbol;Acc:557]	
SYP	Synaptophysin [Source:HGNC Symbol;Acc:11506]	
SYT1	Synaptotagmin I [Source:HGNC Symbol;Acc:11509]	
SYT11	Synaptotagmin XI [Source:HGNC Symbol;Acc:19239]	
SYT16	Synaptotagmin XVI [Source:HGNC Symbol;Acc:23142]	

SYT17	Synaptotagmin XVII [Source:HGNC Symbol;Acc:24119]	
SYT5	Synaptotagmin V [Source:HGNC Symbol;Acc:11513]	
SYT7	Synaptotagmin VII [Source:HGNC Symbol;Acc:11514]	
SYTL2	Synaptotagmin-like 2 [Source:HGNC Symbol;Acc:15585]	
SYTL3	Synaptotagmin-like 3 [Source:HGNC Symbol;Acc:15587]	
SYTL4	Synaptotagmin-like 4 [Source:HGNC Symbol;Acc:15588]	
T	T, brachyury homolog (mouse) [Source:HGNC Symbol;Acc:11515]	
TAB1	TGF-beta activated kinase 1/MAP3K7 binding protein 1 [Source:HGNC Symbol;Acc:18157]	
TACC1	Transforming, acidic coiled-coil containing protein 1 [Source:HGNC Symbol;Acc:11522]	
TACC2	Transforming, acidic coiled-coil containing protein 2 [Source:HGNC Symbol;Acc:11523]	
TACSTD2	Tumor-associated calcium signal transducer 2 [Source:HGNC Symbol;Acc:11530]	
TAF1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kda [Source:HGNC Symbol;Acc:11535]	
TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kda [Source:HGNC Symbol;Acc:11544]	
TAF12	TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 20kda [Source:HGNC Symbol;Acc:11545]	
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kda [Source:HGNC Symbol;Acc:11547]	√
TAF1C	TATA box binding protein (TBP)-associated factor, RNA polymerase I, C, 110kda [Source:HGNC Symbol;Acc:11534]	
TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kda [Source:HGNC Symbol;Acc:28759]	
TAF4	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kda [Source:HGNC Symbol;Acc:11537]	
TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kda [Source:HGNC Symbol;Acc:11539]	
TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kda [Source:HGNC Symbol;Acc:17304]	

TAF6	TAF6 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 80kda [Source:HGNC Symbol;Acc:11540]	
TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kda [Source:HGNC Symbol;Acc:11542]	
TAL1	T-cell acute lymphocytic leukemia 1 [Source:HGNC Symbol;Acc:11556]	√
TALDO1	Transaldolase 1 [Source:HGNC Symbol;Acc:11559]	
TANC2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 [Source:HGNC Symbol;Acc:30212]	
TAOK1	TAO kinase 1 [Source:HGNC Symbol;Acc:29259]	
TAOK2	TAO kinase 2 [Source:HGNC Symbol;Acc:16835]	
TAP1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]	
TAPBP	TAP binding protein (tapasin) [Source:HGNC Symbol;Acc:11566]	
TARBP1	TAR (HIV-1) RNA binding protein 1 [Source:HGNC Symbol;Acc:11568]	
TARBP2	TAR (HIV-1) RNA binding protein 2 [Source:HGNC Symbol;Acc:11569]	
TAS1R1	Taste receptor, type 1, member 1 [Source:HGNC Symbol;Acc:14448]	
TAS2R1	Taste receptor, type 2, member 1 [Source:HGNC Symbol;Acc:14909]	
TAS2R3	Taste receptor, type 2, member 3 [Source:HGNC Symbol;Acc:14910]	
TAS2R38	Taste receptor, type 2, member 38 [Source:HGNC Symbol;Acc:9584]	
TAS2R39	Taste receptor, type 2, member 39 [Source:HGNC Symbol;Acc:18886]	
TAS2R40	Taste receptor, type 2, member 40 [Source:HGNC Symbol;Acc:18885]	
TAS2R42	Taste receptor, type 2, member 42 [Source:HGNC Symbol;Acc:18888]	
TASP1	Taspase, threonine aspartase, 1 [Source:HGNC Symbol;Acc:15859]	
TATDN3	Tatd dnase domain containing 3 [Source:HGNC Symbol;Acc:27010]	
TAZ	Tafazzin [Source:HGNC Symbol;Acc:11577]	
TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1 [Source:HGNC Symbol;Acc:11578]	
TBC1D10B	TBC1 domain family, member 10B [Source:HGNC Symbol;Acc:24510]	
TBC1D14	TBC1 domain family, member 14 [Source:HGNC Symbol;Acc:29246]	
TBC1D16	TBC1 domain family, member 16 [Source:HGNC Symbol;Acc:28356]	
TBC1D19	TBC1 domain family, member 19 [Source:HGNC Symbol;Acc:25624]	
TBC1D21	TBC1 domain family, member 21 [Source:HGNC Symbol;Acc:28536]	
TBC1D22A	TBC1 domain family, member 22A [Source:HGNC Symbol;Acc:1309]	

TBC1D24	TBC1 domain family, member 24 [Source:HGNC Symbol;Acc:29203]	
TBC1D26	TBC1 domain family, member 26 [Source:HGNC Symbol;Acc:28745]	
TBC1D28	TBC1 domain family, member 28 [Source:HGNC Symbol;Acc:26858]	
TBC1D2B	TBC1 domain family, member 2B [Source:HGNC Symbol;Acc:29183]	
TBC1D3	TBC1 domain family, member 3 [Source:HGNC Symbol;Acc:19031]	
TBC1D3B	TBC1 domain family, member 3B [Source:HGNC Symbol;Acc:27011]	
TBC1D3C	TBC1 domain family, member 3C [Source:HGNC Symbol;Acc:24889]	
TBC1D3G	TBC1 domain family, member 3G [Source:HGNC Symbol;Acc:29860]	
TBC1D4	TBC1 domain family, member 4 [Source:HGNC Symbol;Acc:19165]	
TBC1D5	TBC1 domain family, member 5 [Source:HGNC Symbol;Acc:19166]	
TBC1D8	TBC1 domain family, member 8 (with GRAM domain) [Source:HGNC Symbol;Acc:17791]	
TBC1D8B	TBC1 domain family, member 8B (with GRAM domain) [Source:HGNC Symbol;Acc:24715]	
TBC1D9	TBC1 domain family, member 9 (with GRAM domain) [Source:HGNC Symbol;Acc:21710]	
TBC1D9B	TBC1 domain family, member 9B (with GRAM domain) [Source:HGNC Symbol;Acc:29097]	
TBCD	Tubulin folding cofactor D [Source:HGNC Symbol;Acc:11581]	
TBCEL	Tubulin folding cofactor E-like [Source:HGNC Symbol;Acc:28115]	
TBK1	TANK-binding kinase 1 [Source:HGNC Symbol;Acc:11584]	
TBL1X	Transducin (beta)-like 1X-linked [Source:HGNC Symbol;Acc:11585]	
TBL1XR1	Transducin (beta)-like 1 X-linked receptor 1 [Source:HGNC Symbol;Acc:29529]	√
TBX10	T-box 10 [Source:HGNC Symbol;Acc:11593]	
TBX15	T-box 15 [Source:HGNC Symbol;Acc:11594]	
TBX19	T-box 19 [Source:HGNC Symbol;Acc:11596]	
TBX22	T-box 22 [Source:HGNC Symbol;Acc:11600]	
TBX4	T-box 4 [Source:HGNC Symbol;Acc:11603]	
TBXAS1	Thromboxane A synthase 1 (platelet) [Source:HGNC Symbol;Acc:11609]	
TCEA2	Transcription elongation factor A (SII), 2 [Source:HGNC Symbol;Acc:11614]	

TCEANC	Transcription elongation factor A (SII) N-terminal and central domain containing [Source:HGNC Symbol;Acc:28277]	
TCERG1	Transcription elongation regulator 1 [Source:HGNC Symbol;Acc:15630]	
TCERG1L	Transcription elongation regulator 1-like [Source:HGNC Symbol;Acc:23533]	
TCF20	Transcription factor 20 (AR1) [Source:HGNC Symbol;Acc:11631]	
TCF21	Transcription factor 21 [Source:HGNC Symbol;Acc:11632]	
TCF25	Transcription factor 25 (basic helix-loop-helix) [Source:HGNC Symbol;Acc:29181]	
TCF4	Transcription factor 4 [Source:HGNC Symbol;Acc:11634]	
TCHHL1	Trichohyalin-like 1 [Source:HGNC Symbol;Acc:31796]	
TCL1A	T-cell leukemia/lymphoma 1A [Source:HGNC Symbol;Acc:11648]	√
TCL1B	T-cell leukemia/lymphoma 1B [Source:HGNC Symbol;Acc:11649]	
TCOF1	Treacher Collins-Franceschetti syndrome 1 [Source:HGNC Symbol;Acc:11654]	
TCP11	T-complex 11 homolog (mouse) [Source:HGNC Symbol;Acc:11658]	
TCTEX1D1	Tctex1 domain containing 1 [Source:HGNC Symbol;Acc:26882]	
TCTN1	Tectonic family member 1 [Source:HGNC Symbol;Acc:26113]	
TCTN2	Tectonic family member 2 [Source:HGNC Symbol;Acc:25774]	
TCTN3	Tectonic family member 3 [Source:HGNC Symbol;Acc:24519]	
TDRD1	Tudor domain containing 1 [Source:HGNC Symbol;Acc:11712]	
TDRD12	Tudor domain containing 12 [Source:HGNC Symbol;Acc:25044]	
TDRD7	Tudor domain containing 7 [Source:HGNC Symbol;Acc:30831]	
TDRD9	Tudor domain containing 9 [Source:HGNC Symbol;Acc:20122]	
TDRKH	Tudor and KH domain containing [Source:HGNC Symbol;Acc:11713]	
TEAD4	TEA domain family member 4 [Source:HGNC Symbol;Acc:11717]	
TECPR1	Tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:22214]	
TECPR2	Tectonin beta-propeller repeat containing 2 [Source:HGNC Symbol;Acc:19957]	
TECTA	Tectorin alpha [Source:HGNC Symbol;Acc:11720]	
TEK	TEK tyrosine kinase, endothelial [Source:HGNC Symbol;Acc:11724]	
TEKT1	Tektin 1 [Source:HGNC Symbol;Acc:15534]	

TEP1	Telomerase-associated protein 1 [Source:HGNC Symbol;Acc:11726]	
TERF1	Telomeric repeat binding factor (NIMA-interacting) 1 [Source:HGNC Symbol;Acc:11728]	
TERT	Telomerase reverse transcriptase [Source:HGNC Symbol;Acc:11730]	√
TET2	Tet oncogene family member 2 [Source:HGNC Symbol;Acc:25941]	√
TEX10	Testis expressed 10 [Source:HGNC Symbol;Acc:25988]	
TEX14	Testis expressed 14 [Source:HGNC Symbol;Acc:11737]	
TEX15	Testis expressed 15 [Source:HGNC Symbol;Acc:11738]	
TEX2	Testis expressed 2 [Source:HGNC Symbol;Acc:30884]	
TEX28	Testis expressed 28 [Source:HGNC Symbol;Acc:2563]	
TEX28P1	Testis expressed 28 pseudogene 1 [Source:HGNC Symbol;Acc:33356]	
TEX28P2	Testis expressed 28 pseudogene 2 [Source:HGNC Symbol;Acc:33357]	
TF	Transferrin [Source:HGNC Symbol;Acc:11740]	
TFAM	Transcription factor A, mitochondrial [Source:HGNC Symbol;Acc:11741]	
TFB1M	Transcription factor B1, mitochondrial [Source:HGNC Symbol;Acc:17037]	
TFCP2L1	Transcription factor CP2-like 1 [Source:HGNC Symbol;Acc:17925]	
TFDP2	Transcription factor Dp-2 (E2F dimerization partner 2) [Source:HGNC Symbol;Acc:11751]	
TFF2	Trefoil factor 2 [Source:HGNC Symbol;Acc:11756]	
TFPI	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) [Source:HGNC Symbol;Acc:11760]	
TFPI2	Tissue factor pathway inhibitor 2 [Source:HGNC Symbol;Acc:11761]	
TFR2	Transferrin receptor 2 [Source:HGNC Symbol;Acc:11762]	
TFRC	Transferrin receptor (p90, CD71) [Source:HGNC Symbol;Acc:11763]	√
TG	Thyroglobulin [Source:HGNC Symbol;Acc:11764]	
TGFA	Transforming growth factor, alpha [Source:HGNC Symbol;Acc:11765]	
TGFBI	Transforming growth factor, beta-induced, 68kda [Source:HGNC Symbol;Acc:11771]	
TGFBR1	Transforming growth factor, beta receptor 1 [Source:HGNC Symbol;Acc:11772]	
TGFBR3	Transforming growth factor, beta receptor III [Source:HGNC Symbol;Acc:11774]	

TGFBRAP1	Transforming growth factor, beta receptor associated protein 1 [Source:HGNC Symbol;Acc:16836]	
TGIF2	TGFB-induced factor homeobox 2 [Source:HGNC Symbol;Acc:15764]	
TGM1	Transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase) [Source:HGNC Symbol;Acc:11777]	
TGM3	Transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) [Source:HGNC Symbol;Acc:11779]	
TGM4	Transglutaminase 4 (prostate) [Source:HGNC Symbol;Acc:11780]	
TGM5	Transglutaminase 5 [Source:HGNC Symbol;Acc:11781]	
TGM6	Transglutaminase 6 [Source:HGNC Symbol;Acc:16255]	
TH1L	TH1-like (Drosophila) [Source:HGNC Symbol;Acc:15934]	
THADA	Thyroid adenoma associated [Source:HGNC Symbol;Acc:19217]	
THAP8	THAP domain containing 8 [Source:HGNC Symbol;Acc:23191]	
THAP9	THAP domain containing 9 [Source:HGNC Symbol;Acc:23192]	
THBD	Thrombomodulin [Source:HGNC Symbol;Acc:11784]	
THBS3	Thrombospondin 3 [Source:HGNC Symbol;Acc:11787]	
THBS4	Thrombospondin 4 [Source:HGNC Symbol;Acc:11788]	
THNSL1	Threonine synthase-like 1 (S. Cerevisiae) [Source:HGNC Symbol;Acc:26160]	
THNSL2	Threonine synthase-like 2 (S. Cerevisiae) [Source:HGNC Symbol;Acc:25602]	
THOC2	THO complex 2 [Source:HGNC Symbol;Acc:19073]	
THOC5	THO complex 5 [Source:HGNC Symbol;Acc:19074]	
THOC6	THO complex 6 homolog (Drosophila) [Source:HGNC Symbol;Acc:28369]	
THRA	Thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian) [Source:HGNC Symbol;Acc:11796]	
THRAP3	Thyroid hormone receptor associated protein 3 [Source:HGNC Symbol;Acc:22964]	√
THSD4	Thrombospondin, type I, domain containing 4 [Source:HGNC Symbol;Acc:25835]	
THSD7A	Thrombospondin, type I, domain containing 7A [Source:HGNC Symbol;Acc:22207]	

THSD7B	Thrombospondin, type I, domain containing 7B [Source:HGNC Symbol;Acc:29348]	
THUMPD1	THUMP domain containing 1 [Source:HGNC Symbol;Acc:23807]	
THUMPD3	THUMP domain containing 3 [Source:HGNC Symbol;Acc:24493]	
TIAF1	TGFB1-induced anti-apoptotic factor 1 [Source:HGNC Symbol;Acc:11803]	
TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1 [Source:HGNC Symbol;Acc:11804]	
TIAM2	T-cell lymphoma invasion and metastasis 2 [Source:HGNC Symbol;Acc:11806]	
TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1 [Source:HGNC Symbol;Acc:11809]	
TIFA	TRAF-interacting protein with forkhead-associated domain [Source:HGNC Symbol;Acc:19075]	
TIFAB	TRAF-interacting protein with forkhead-associated domain, family member B [Source:HGNC Symbol;Acc:34024]	
TIGD1L2	Tigger transposable element derived 1-like 2 [Source:HGNC Symbol;Acc:31424]	
TIGD6	Tigger transposable element derived 6 [Source:HGNC Symbol;Acc:18332]	
TIGIT	T cell immunoreceptor with Ig and ITIM domains [Source:HGNC Symbol;Acc:26838]	
TIMELESS	Timeless homolog (Drosophila) [Source:HGNC Symbol;Acc:11813]	
TIMM17A	Translocase of inner mitochondrial membrane 17 homolog A (yeast) [Source:HGNC Symbol;Acc:17315]	
TIMM22	Translocase of inner mitochondrial membrane 22 homolog (yeast) [Source:HGNC Symbol;Acc:17317]	
TIMM44	Translocase of inner mitochondrial membrane 44 homolog (yeast) [Source:HGNC Symbol;Acc:17316]	
TIMP1	TIMP metallopeptidase inhibitor 1 [Source:HGNC Symbol;Acc:11820]	
TIMP3	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:11822]	
TINAG	Tubulointerstitial nephritis antigen [Source:HGNC Symbol;Acc:14599]	
TIPARP	TCDD-inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:23696]	
TIPIN	TIMELESS interacting protein [Source:HGNC Symbol;Acc:30750]	

TJAP1	Tight junction associated protein 1 (peripheral) [Source:HGNC Symbol;Acc:17949]	
TJP1	Tight junction protein 1 (zona occludens 1) [Source:HGNC Symbol;Acc:11827]	
TJP2	Tight junction protein 2 (zona occludens 2) [Source:HGNC Symbol;Acc:11828]	
TK2	Thymidine kinase 2, mitochondrial [Source:HGNC Symbol;Acc:11831]	
TLE1	Transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila) [Source:HGNC Symbol;Acc:11837]	
TLE3	Transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) [Source:HGNC Symbol;Acc:11839]	
TLE4	Transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila) [Source:HGNC Symbol;Acc:11840]	
TLK1	Tousled-like kinase 1 [Source:HGNC Symbol;Acc:11841]	
TLL1	Tolloid-like 1 [Source:HGNC Symbol;Acc:11843]	
TLL2	Tolloid-like 2 [Source:HGNC Symbol;Acc:11844]	
TLN1	Talin 1 [Source:HGNC Symbol;Acc:11845]	
TLN2	Talin 2 [Source:HGNC Symbol;Acc:15447]	
TLR6	Toll-like receptor 6 [Source:HGNC Symbol;Acc:16711]	
TM2D3	TM2 domain containing 3	
TM4SF18	Transmembrane 4 L six family member 18	
TM7SF3	Transmembrane 7 superfamily member 3	
TM9SF1	Transmembrane 9 superfamily member 1	
TM9SF3	Transmembrane 9 superfamily member 3	
TM9SF4	Transmembrane 9 superfamily protein member 4	
TMC1	Transmembrane channel-like 1	
TMC2	Transmembrane channel-like 2	
TMC4	Transmembrane channel-like 4	
TMC5	Transmembrane channel-like 5	
TMC8	Transmembrane channel-like 8	
TMCC2	Transmembrane and coiled-coil domain family 2	
TMCC3	Transmembrane and coiled-coil domain family 3	
TMCO6	Transmembrane and coiled-coil domains 6	

TMED10	Transmembrane emp24-like trafficking protein 10 (yeast)	
TMED3	Transmembrane emp24 protein transport domain containing 3	
TMED5	Transmembrane emp24 protein transport domain containing 5	
TMED6	Transmembrane emp24 protein transport domain containing 6	
TMEFF2	Transmembrane protein with EGF-like and two follistatin-like domains 2	
TMEM101	Transmembrane protein 101	
TMEM106A	Transmembrane protein 106A	
TMEM107	Transmembrane protein 107	
TMEM108	Transmembrane protein 108	
TMEM110	Transmembrane protein 110	
TMEM116	Transmembrane protein 116	
TMEM120B	Transmembrane protein 120B	
TMEM127	Transmembrane protein 127	
TMEM130	Transmembrane protein 130	
TMEM132A	Transmembrane protein 132A	
TMEM132B	Transmembrane protein 132B	
TMEM132C	Transmembrane protein 132C	
TMEM132E	Transmembrane protein 132E	
TMEM136	Transmembrane protein 136	
TMEM147	Transmembrane protein 147	
TMEM150A	Transmembrane protein 150A	
TMEM151B	Transmembrane protein 151B	
TMEM154	Transmembrane protein 154	
TMEM156	Transmembrane protein 156	
TMEM163	Transmembrane protein 163	
TMEM164	Transmembrane protein 164	
TMEM165	Transmembrane protein 165	
TMEM168	Transmembrane protein 168	
TMEM169	Transmembrane protein 169	
TMEM170B	Transmembrane protein 170B	
TMEM173	Transmembrane protein 173	
TMEM174	Transmembrane protein 174	
TMEM176A	Transmembrane protein 176A	

TMEM181	Transmembrane protein 181	
TMEM183A	Transmembrane protein 183A	
TMEM184B	Transmembrane protein 184B	
TMEM184B	Transmembrane protein 184B	
TMEM187	Transmembrane protein 187	
TMEM188	Transmembrane protein 188	
TMEM189	Transmembrane protein 189	
TMEM192	Transmembrane protein 192	
TMEM196	Transmembrane protein 196	
TMEM20	Transmembrane protein 20	
TMEM201	Transmembrane protein 201	
TMEM203	Transmembrane protein 203	
TMEM206	Transmembrane protein 206	
TMEM208	Transmembrane protein 208	
TMEM214	Transmembrane protein 214	
TMEM218	Transmembrane protein 218	
TMEM220	Transmembrane protein 220	
TMEM229A	Transmembrane protein 229A	
TMEM25	Transmembrane protein 25	
TMEM26	Transmembrane protein 26	
TMEM30A	Transmembrane protein 30A	
TMEM37	Transmembrane protein 37	
TMEM39A	Transmembrane protein 39A	
TMEM41A	Transmembrane protein 41A	
TMEM42	Transmembrane protein 42	
TMEM43	Transmembrane protein 43	
TMEM48	Transmembrane protein 48	
TMEM49	Transmembrane protein 49	
TMEM50B	Transmembrane protein 50B	
TMEM63A	Transmembrane protein 63A	
TMEM64	Transmembrane protein 64	
TMEM68	Transmembrane protein 68	
TMEM72	Transmembrane protein 72	

TMEM74	Transmembrane protein 74	
TMEM87A	Transmembrane protein 87A	
TMEM87B	Transmembrane protein 87B	
TMEM8A	Transmembrane protein 8A	
TMEM8B	Transmembrane protein 8B	
TMEM92	Transmembrane protein 92	
TMEM95	Transmembrane protein 95	
TMEM98	Transmembrane protein 98	
TMF1	TATA element modulatory factor 1	
TMOD1	Tropomodulin 1	
TMOD3	Tropomodulin 3 (ubiquitous) Symbol;Acc:11873]	
TMPRSS15	Transmembrane protease, serine 15 [Source:HGNC Symbol;Acc:9490]	
TMPRSS2	Transmembrane protease, serine 2 [Source:HGNC Symbol;Acc:11876]	√
TMPRSS6	Transmembrane protease, serine 6 [Source:HGNC Symbol;Acc:16517]	
TMTC1	Transmembrane and tetratricopeptide repeat containing 1 [Source:HGNC Symbol;Acc:24099]	
TMTC2	Transmembrane and tetratricopeptide repeat containing 2 [Source:HGNC Symbol;Acc:25440]	
TMTC4	Transmembrane and tetratricopeptide repeat containing 4 [Source:HGNC Symbol;Acc:25904]	
TMX4	Thioredoxin-related transmembrane protein 4 [Source:HGNC Symbol;Acc:25237]	
TNC	Tenascin C [Source:HGNC Symbol;Acc:5318]	
TNFAIP1	Tumor necrosis factor, alpha-induced protein 1 (endothelial) [Source:HGNC Symbol;Acc:11894]	
TNFAIP3	Tumor necrosis factor, alpha-induced protein 3 [Source:HGNC Symbol;Acc:11896]	
TNFAIP8L1	Tumor necrosis factor, alpha-induced protein 8-like 1 [Source:HGNC Symbol;Acc:28279]	
TNFAIP8L2	Tumor necrosis factor, alpha-induced protein 8-like 2 [Source:HGNC Symbol;Acc:26277]	
TNFAIP8L3	Tumor necrosis factor, alpha-induced protein 8-like 3 [Source:HGNC Symbol;Acc:20620]	

TNFRSF10D	Tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain [Source:HGNC Symbol;Acc:11907]	
TNFRSF11A	Tumor necrosis factor receptor superfamily, member 11a, NFKB activator [Source:HGNC Symbol;Acc:11908]	
TNFRSF11B	Tumor necrosis factor receptor superfamily, member 11b [Source:HGNC Symbol;Acc:11909]	
TNFRSF14	Tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) [Source:HGNC Symbol;Acc:11912]	√
TNFRSF1A	Tumor necrosis factor receptor superfamily, member 1A [Source:HGNC Symbol;Acc:11916]	
TNFRSF21	Tumor necrosis factor receptor superfamily, member 21 [Source:HGNC Symbol;Acc:13469]	
TNFRSF25	Tumor necrosis factor receptor superfamily, member 25 [Source:HGNC Symbol;Acc:11910]	
TNFRSF6B	Tumor necrosis factor receptor superfamily, member 6b, decoy [Source:HGNC Symbol;Acc:11921]	
TNFSF11	Tumor necrosis factor (ligand) superfamily, member 11 [Source:HGNC Symbol;Acc:11926]	
TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14 [Source:HGNC Symbol;Acc:11930]	
TNFSF8	Tumor necrosis factor (ligand) superfamily, member 8 [Source:HGNC Symbol;Acc:11938]	
TNIP2	TNFAIP3 interacting protein 2 [Source:HGNC Symbol;Acc:19118]	
TNK1	Tyrosine kinase, non-receptor, 1 [Source:HGNC Symbol;Acc:11940]	
TNK2	Tyrosine kinase, non-receptor, 2 [Source:HGNC Symbol;Acc:19297]	
TNKS	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase [Source:HGNC Symbol;Acc:11941]	
TNN	Tenascin N [Source:HGNC Symbol;Acc:22942]	
TNNI3	Troponin I type 3 (cardiac) [Source:HGNC Symbol;Acc:11947]	
TNPO1	Transportin 1 [Source:HGNC Symbol;Acc:6401]	
TNPO3	Transportin 3 [Source:HGNC Symbol;Acc:17103]	
TNR	Tenascin R (restrictin, janusin) [Source:HGNC Symbol;Acc:11953]	
TNRC18	Trinucleotide repeat containing 18 [Source:HGNC Symbol;Acc:11962]	

TNRC6A	Trinucleotide repeat containing 6A [Source:HGNC Symbol;Acc:11969]	
TNRC6B	Trinucleotide repeat containing 6B [Source:HGNC Symbol;Acc:29190]	
TNRC6C	Trinucleotide repeat containing 6C [Source:HGNC Symbol;Acc:29318]	
TNS1	Tensin 1 [Source:HGNC Symbol;Acc:11973]	
TNS3	Tensin 3 [Source:HGNC Symbol;Acc:21616]	
TNXB	Tenascin XB [Source:HGNC Symbol;Acc:11976]	
TOB2	Transducer of ERBB2, 2 [Source:HGNC Symbol;Acc:11980]	
TOE1	Target of EGR1, member 1 (nuclear) [Source:HGNC Symbol;Acc:15954]	
TOLLIP	Toll interacting protein [Source:HGNC Symbol;Acc:16476]	
TOM1	Target of myb1 (chicken) [Source:HGNC Symbol;Acc:11982]	
TOM1L1	Target of myb1 (chicken)-like 1 [Source:HGNC Symbol;Acc:11983]	
TOM1L2	Target of myb1-like 2 (chicken) [Source:HGNC Symbol;Acc:11984]	
TOMM22	Translocase of outer mitochondrial membrane 22 homolog (yeast) [Source:HGNC Symbol;Acc:18002]	
TOMM34	Translocase of outer mitochondrial membrane 34 [Source:HGNC Symbol;Acc:15746]	
TOMM40L	Translocase of outer mitochondrial membrane 40 homolog (yeast)-like [Source:HGNC Symbol;Acc:25756]	
TOMM6	Translocase of outer mitochondrial membrane 6 homolog (yeast) [Source:HGNC Symbol;Acc:34528]	
TONSL	Tonsoku-like, DNA repair protein [Source:HGNC Symbol;Acc:7801]	
TOP1	Topoisomerase (DNA) I [Source:HGNC Symbol;Acc:11986]	√
TOP1MT	Topoisomerase (DNA) I, mitochondrial [Source:HGNC Symbol;Acc:29787]	
TOP3B	Topoisomerase (DNA) III beta [Source:HGNC Symbol;Acc:11993]	
TOR1AIP2	Torsin A interacting protein 2 [Source:HGNC Symbol;Acc:24055]	
TOR1B	Torsin family 1, member B (torsin B) [Source:HGNC Symbol;Acc:11995]	
TOR3A	Torsin family 3, member A [Source:HGNC Symbol;Acc:11997]	
TOX	Thymocyte selection-associated high mobility group box [Source:HGNC Symbol;Acc:18988]	
TOX4	TOX high mobility group box family member 4 [Source:HGNC Symbol;Acc:20161]	
TP53BP1	Tumor protein p53 binding protein 1 [Source:HGNC Symbol;Acc:11999]	
TP53BP2	Tumor protein p53 binding protein, 2 [Source:HGNC Symbol;Acc:12000]	

TP53INP1	Tumor protein p53 inducible nuclear protein 1 [Source:HGNC Symbol;Acc:18022]	
TPCN1	Two pore segment channel 1 [Source:HGNC Symbol;Acc:18182]	
TPD52L1	Tumor protein D52-like 1 [Source:HGNC Symbol;Acc:12006]	
TPD52L2	Tumor protein D52-like 2 [Source:HGNC Symbol;Acc:12007]	
TPH2	Tryptophan hydroxylase 2 [Source:HGNC Symbol;Acc:20692]	
TPK1	Thiamin pyrophosphokinase 1 [Source:HGNC Symbol;Acc:17358]	
TPM3	Tropomyosin 3 [Source:HGNC Symbol;Acc:12012]	
TPMT	Thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:12014]	
TPP1	Tripeptidyl peptidase I [Source:HGNC Symbol;Acc:2073]	
TPRA1	Transmembrane protein, adipocyte asscociated 1 [Source:HGNC Symbol;Acc:30413]	
TPRG1	Tumor protein p63 regulated 1 [Source:HGNC Symbol;Acc:24759]	
TPRG1L	Tumor protein p63 regulated 1-like [Source:HGNC Symbol;Acc:27007]	
TPRXL	Tetra-peptide repeat homeobox-like [Source:HGNC Symbol;Acc:32178]	
TPST2	Tyrosylprotein sulfotransferase 2 [Source:HGNC Symbol;Acc:12021]	
TPTE2P1	Transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 1 [Source:HGNC Symbol;Acc:35196]	
TRA2A	Transformer 2 alpha homolog (Drosophila) [Source:HGNC Symbol;Acc:16645]	
TRAF1	TNF receptor-associated factor 1 [Source:HGNC Symbol;Acc:12031]	
TRAF4	TNF receptor-associated factor 4 [Source:HGNC Symbol;Acc:12034]	
TRAF7	TNF receptor-associated factor 7 [Source:HGNC Symbol;Acc:20456]	√
TRAK1	Trafficking protein, kinesin binding 1 [Source:HGNC Symbol;Acc:29947]	
TRAM1L1	Translocation associated membrane protein 1-like 1 [Source:HGNC Symbol;Acc:28371]	
TRAM2	Translocation associated membrane protein 2 [Source:HGNC Symbol;Acc:16855]	
TRANK1	Tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:29011]	
TRAP1	TNF receptor-associated protein 1 [Source:HGNC Symbol;Acc:16264]	
TRAPPC10	Trafficking protein particle complex 10 [Source:HGNC Symbol;Acc:11868]	
TRDMT1	Trna aspartic acid methyltransferase 1 [Source:HGNC Symbol;Acc:2977]	

TREML2	Triggering receptor expressed on myeloid cells-like 2 [Source:HGNC Symbol;Acc:21092]	
TRERF1	Transcriptional regulating factor 1 [Source:HGNC Symbol;Acc:18273]	
TREX1	Three prime repair exonuclease 1 [Source:HGNC Symbol;Acc:12269]	
TRGV3	T cell receptor gamma variable 3 [Source:HGNC Symbol;Acc:12288]	
TRGV5	T cell receptor gamma variable 5 [Source:HGNC Symbol;Acc:12290]	
TRIM10	Tripartite motif containing 10 [Source:HGNC Symbol;Acc:10072]	
TRIM11	Tripartite motif containing 11 [Source:HGNC Symbol;Acc:16281]	
TRIM13	Tripartite motif containing 13 [Source:HGNC Symbol;Acc:9976]	
TRIM14	Tripartite motif containing 14 [Source:HGNC Symbol;Acc:16283]	
TRIM17	Tripartite motif containing 17 [Source:HGNC Symbol;Acc:13430]	
TRIM22	Tripartite motif containing 22 [Source:HGNC Symbol;Acc:16379]	
TRIM23	Tripartite motif containing 23 [Source:HGNC Symbol;Acc:660]	
TRIM24	Tripartite motif containing 24 [Source:HGNC Symbol;Acc:11812]	
TRIM26	Tripartite motif containing 26 [Source:HGNC Symbol;Acc:12962]	
TRIM28	Tripartite motif containing 28 [Source:HGNC Symbol;Acc:16384]	
TRIM3	Tripartite motif containing 3 [Source:HGNC Symbol;Acc:10064]	
TRIM31	Tripartite motif containing 31 [Source:HGNC Symbol;Acc:16289]	
TRIM33	Tripartite motif containing 33 [Source:HGNC Symbol;Acc:16290]	√
TRIM34	Tripartite motif containing 34 [Source:HGNC Symbol;Acc:10063]	
TRIM35	Tripartite motif containing 35 [Source:HGNC Symbol;Acc:16285]	
TRIM37	Tripartite motif containing 37 [Source:HGNC Symbol;Acc:7523]	
TRIM39	Tripartite motif containing 39 [Source:HGNC Symbol;Acc:10065]	
TRIM39-RPP21	TRIM39-RPP21 readthrough [Source:HGNC Symbol;Acc:38845]	
TRIM43	Tripartite motif containing 43 [Source:HGNC Symbol;Acc:19015]	
TRIM46	Tripartite motif containing 46 [Source:HGNC Symbol;Acc:19019]	
TRIM48	Tripartite motif containing 48 [Source:HGNC Symbol;Acc:19021]	
TRIM49	Tripartite motif containing 49 [Source:HGNC Symbol;Acc:13431]	
TRIM49L2	Tripartite motif containing 49-like 2 [Source:HGNC Symbol;Acc:38877]	
TRIM50	Tripartite motif containing 50 [Source:HGNC Symbol;Acc:19017]	
TRIM55	Tripartite motif containing 55 [Source:HGNC Symbol;Acc:14215]	
TRIM6	Tripartite motif containing 6 [Source:HGNC Symbol;Acc:16277]	

TRIM62	Tripartite motif containing 62 [Source:HGNC Symbol;Acc:25574]	
TRIM65	Tripartite motif containing 65 [Source:HGNC Symbol;Acc:27316]	
TRIM66	Tripartite motif containing 66 [Source:HGNC Symbol;Acc:29005]	
TRIM67	Tripartite motif containing 67 [Source:HGNC Symbol;Acc:31859]	
TRIM6-TRIM34	TRIM6-TRIM34 readthrough [Source:HGNC Symbol;Acc:33440]	
TRIM71	Tripartite motif containing 71 [Source:HGNC Symbol;Acc:32669]	
TRIM72	Tripartite motif containing 72 [Source:HGNC Symbol;Acc:32671]	
TRIM73	Tripartite motif containing 73 [Source:HGNC Symbol;Acc:18162]	
TRIM74	Tripartite motif containing 74 [Source:HGNC Symbol;Acc:17453]	
TRIM9	Tripartite motif containing 9 [Source:HGNC Symbol;Acc:16288]	
TRIML2	Tripartite motif family-like 2 [Source:HGNC Symbol;Acc:26378]	
TRIO	Triple functional domain (PTPRF interacting) [Source:HGNC Symbol;Acc:12303]	
TRIP11	Thyroid hormone receptor interactor 11 [Source:HGNC Symbol;Acc:12305]	√
TRIP6	Thyroid hormone receptor interactor 6 [Source:HGNC Symbol;Acc:12311]	
TRIT1	Trna isopentenyltransferase 1 [Source:HGNC Symbol;Acc:20286]	
TRMT1L	TRM1 trna methyltransferase 1-like [Source:HGNC Symbol;Acc:16782]	
TRMT61A	Trna methyltransferase 61 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:23790]	
TRMU	Trna 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:HGNC Symbol;Acc:25481]	
TRNAU1AP	Trna selenocysteine 1 associated protein 1 [Source:HGNC Symbol;Acc:30813]	
TRO	Trophinin [Source:HGNC Symbol;Acc:12326]	
TRPA1	Transient receptor potential cation channel, subfamily A, member 1 [Source:HGNC Symbol;Acc:497]	
TRPC4AP	Transient receptor potential cation channel, subfamily C, member 4 associated protein [Source:HGNC Symbol;Acc:16181]	
TRPC5	Transient receptor potential cation channel, subfamily C, member 5 [Source:HGNC Symbol;Acc:12337]	

TRPM1	Transient receptor potential cation channel, subfamily M, member 1 [Source:HGNC Symbol;Acc:7146]	
TRPM2	Transient receptor potential cation channel, subfamily M, member 2 [Source:HGNC Symbol;Acc:12339]	
TRPM3	Transient receptor potential cation channel, subfamily M, member 3 [Source:HGNC Symbol;Acc:17992]	
TRPM5	Transient receptor potential cation channel, subfamily M, member 5 [Source:HGNC Symbol;Acc:14323]	
TRPM6	Transient receptor potential cation channel, subfamily M, member 6 [Source:HGNC Symbol;Acc:17995]	
TRPM8	Transient receptor potential cation channel, subfamily M, member 8 [Source:HGNC Symbol;Acc:17961]	
TRPV2	Transient receptor potential cation channel, subfamily V, member 2 [Source:HGNC Symbol;Acc:18082]	
TRPV6	Transient receptor potential cation channel, subfamily V, member 6 [Source:HGNC Symbol;Acc:14006]	
TRRAP	Transformation/transcription domain-associated protein [Source:HGNC Symbol;Acc:12347]	√
TRUB1	Trub pseudouridine (psi) synthase homolog 1 (E. Coli) [Source:HGNC Symbol;Acc:16060]	
TRUB2	Trub pseudouridine (psi) synthase homolog 2 (E. Coli) [Source:HGNC Symbol;Acc:17170]	
TSC1	Tuberous sclerosis 1 [Source:HGNC Symbol;Acc:12362]	√
TSC2	Tuberous sclerosis 2 [Source:HGNC Symbol;Acc:12363]	
TSC22D1	TSC22 domain family, member 1 [Source:HGNC Symbol;Acc:16826]	
TSC22D2	TSC22 domain family, member 2 [Source:HGNC Symbol;Acc:29095]	
TSC22D4	TSC22 domain family, member 4 [Source:HGNC Symbol;Acc:21696]	
TSEN2	Trna splicing endonuclease 2 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:28422]	
TSEN34	Trna splicing endonuclease 34 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:15506]	
TSEN54	Trna splicing endonuclease 54 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:27561]	

TSGA14	Testis specific, 14 [Source:HGNC Symbol;Acc:12370]	
TSHR	Thyroid stimulating hormone receptor [Source:HGNC Symbol;Acc:12373]	√
TSHZ1	Teashirt zinc finger homeobox 1 [Source:HGNC Symbol;Acc:10669]	
TSHZ2	Teashirt zinc finger homeobox 2 [Source:HGNC Symbol;Acc:13010]	
TSHZ3	Teashirt zinc finger homeobox 3 [Source:HGNC Symbol;Acc:30700]	
TSKS	Testis-specific serine kinase substrate [Source:HGNC Symbol;Acc:30719]	
TSKU	Tsukushi small leucine rich proteoglycan homolog (Xenopus laevis) [Source:HGNC Symbol;Acc:28850]	
TSLP	Thymic stromal lymphopoietin [Source:HGNC Symbol;Acc:30743]	
TSNARE1	T-SNARE domain containing 1 [Source:HGNC Symbol;Acc:26437]	
TSNAXIP1	Translin-associated factor X interacting protein 1 [Source:HGNC Symbol;Acc:18586]	
TSPAN1	Tetraspanin 1 [Source:HGNC Symbol;Acc:20657]	
TSPAN11	Tetraspanin 11 [Source:HGNC Symbol;Acc:30795]	
TSPAN14	Tetraspanin 14 [Source:HGNC Symbol;Acc:23303]	
TSPAN17	Tetraspanin 17 [Source:HGNC Symbol;Acc:13594]	
TSPAN18	Tetraspanin 18 [Source:HGNC Symbol;Acc:20660]	
TSPAN3	Tetraspanin 3 [Source:HGNC Symbol;Acc:17752]	
TSPAN33	Tetraspanin 33 [Source:HGNC Symbol;Acc:28743]	
TSPAN8	Tetraspanin 8 [Source:HGNC Symbol;Acc:11855]	
TSPYL2	TSPY-like 2 [Source:HGNC Symbol;Acc:24358]	
TSSK1B	Testis-specific serine kinase 1B [Source:HGNC Symbol;Acc:14968]	
TSSK2	Testis-specific serine kinase 2 [Source:HGNC Symbol;Acc:11401]	
TSSK3	Testis-specific serine kinase 3 [Source:HGNC Symbol;Acc:15473]	
TSSK6	Testis-specific serine kinase 6 [Source:HGNC Symbol;Acc:30410]	
TST	Thiosulfate sulfurtransferase (rhodanese) [Source:HGNC Symbol;Acc:12388]	
TSTD2	Thiosulfate sulfurtransferase (rhodanese)-like domain containing 2 [Source:HGNC Symbol;Acc:30087]	
TTBK1	Tau tubulin kinase 1 [Source:HGNC Symbol;Acc:19140]	
TTBK2	Tau tubulin kinase 2 [Source:HGNC Symbol;Acc:19141]	
TTC1	Tetratricopeptide repeat domain 1 [Source:HGNC Symbol;Acc:12391]	
TTC12	Tetratricopeptide repeat domain 12 [Source:HGNC Symbol;Acc:23700]	

TTC17	Tetratricopeptide repeat domain 17 [Source:HGNC Symbol;Acc:25596]	
TTC23	Tetratricopeptide repeat domain 23 [Source:HGNC Symbol;Acc:25730]	
TTC24	Tetratricopeptide repeat domain 24 [Source:HGNC Symbol;Acc:32348]	
TTC27	Tetratricopeptide repeat domain 27 [Source:HGNC Symbol;Acc:25986]	
TTC3	Tetratricopeptide repeat domain 3 [Source:HGNC Symbol;Acc:12393]	
TTC31	Tetratricopeptide repeat domain 31 [Source:HGNC Symbol;Acc:25759]	
TTC39A	Tetratricopeptide repeat domain 39A [Source:HGNC Symbol;Acc:18657]	
TTC4	Tetratricopeptide repeat domain 4 [Source:HGNC Symbol;Acc:12394]	
TTC7A	Tetratricopeptide repeat domain 7A [Source:HGNC Symbol;Acc:19750]	
TTC7B	Tetratricopeptide repeat domain 7B [Source:HGNC Symbol;Acc:19858]	
TTC9	Tetratricopeptide repeat domain 9 [Source:HGNC Symbol;Acc:20267]	
TTC9B	Tetratricopeptide repeat domain 9B [Source:HGNC Symbol;Acc:26395]	
TTI1	Tel2 interacting protein 1 homolog (S. Pombe) [Source:HGNC Symbol;Acc:29029]	
TTLL1	Tubulin tyrosine ligase-like family, member 1 [Source:HGNC Symbol;Acc:1312]	
TTLL6	Tubulin tyrosine ligase-like family, member 6 [Source:HGNC Symbol;Acc:26664]	
TTLL7	Tubulin tyrosine ligase-like family, member 7 [Source:HGNC Symbol;Acc:26242]	
TTLL9	Tubulin tyrosine ligase-like family, member 9 [Source:HGNC Symbol;Acc:16118]	
TTN	Titin [Source:HGNC Symbol;Acc:12403]	
TTPA	Tocopherol (alpha) transfer protein [Source:HGNC Symbol;Acc:12404]	
TTPAL	Tocopherol (alpha) transfer protein-like [Source:HGNC Symbol;Acc:16114]	
TTYH2	Tweety homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:13877]	
TUB	Tubby homolog (mouse) [Source:HGNC Symbol;Acc:12406]	
TUBA1A	Tubulin, alpha 1a [Source:HGNC Symbol;Acc:20766]	
TUBA1B	Tubulin, alpha 1b [Source:HGNC Symbol;Acc:18809]	
TUBA1C	Tubulin, alpha 1c [Source:HGNC Symbol;Acc:20768]	
TUBAL3	Tubulin, alpha-like 3 [Source:HGNC Symbol;Acc:23534]	
TUBB1	Tubulin, beta 1 [Source:HGNC Symbol;Acc:16257]	
TUBB2A	Tubulin, beta 2A [Source:HGNC Symbol;Acc:12412]	

TUBB2B	Tubulin, beta 2B [Source:HGNC Symbol;Acc:30829]	
TUBB2C	Tubulin, beta 2C [Source:HGNC Symbol;Acc:20771]	
TUBB3	Tubulin, beta 3 [Source:HGNC Symbol;Acc:20772]	
TUBB4	Tubulin, beta 4 [Source:HGNC Symbol;Acc:20774]	
TUBB6	Tubulin, beta 6 [Source:HGNC Symbol;Acc:20776]	
TUBD1	Tubulin, delta 1 [Source:HGNC Symbol;Acc:16811]	
TUBE1	Tubulin, epsilon 1 [Source:HGNC Symbol;Acc:20775]	
TUBG2	Tubulin, gamma 2 [Source:HGNC Symbol;Acc:12419]	
TUBGCP3	Tubulin, gamma complex associated protein 3 [Source:HGNC Symbol;Acc:18598]	
TUBGCP6	Tubulin, gamma complex associated protein 6 [Source:HGNC Symbol;Acc:18127]	
TUFM	Tu translation elongation factor, mitochondrial [Source:HGNC Symbol;Acc:12420]	
TULP3	Tubby like protein 3 [Source:HGNC Symbol;Acc:12425]	
TUSC2	Tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:17034]	
TUSC3	Tumor suppressor candidate 3 [Source:HGNC Symbol;Acc:30242]	
TWISTNB	TWIST neighbor [Source:HGNC Symbol;Acc:18027]	
TXLNA	Taxilin alpha [Source:HGNC Symbol;Acc:30685]	
TXLNG	Taxilin gamma [Source:HGNC Symbol;Acc:18578]	
TXNDC16	Thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:19965]	
TXNL1	Thioredoxin-like 1 [Source:HGNC Symbol;Acc:12436]	
TXNRD1	Thioredoxin reductase 1 [Source:HGNC Symbol;Acc:12437]	
TXNRD3	Thioredoxin reductase 3 [Source:HGNC Symbol;Acc:20667]	
TXNRD3IT1	Thioredoxin reductase 3 intronic transcript 1 [Source:HGNC Symbol;Acc:33870]	
TYW3	Trna-yw synthesizing protein 3 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24757]	
U62631.1	CDNA: FLJ22814 fis, clone KAIA3004 [Source:uniprotkb/trembl;Acc:Q9H5X8]	
UACA	Uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:HGNC Symbol;Acc:15947]	

UAP1	UDP-N-acteylglucosamine pyrophosphorylase 1 [Source:HGNC Symbol;Acc:12457]	
UBA1	Ubiquitin-like modifier activating enzyme 1 [Source:HGNC Symbol;Acc:12469]	
UBA2	Ubiquitin-like modifier activating enzyme 2 [Source:HGNC Symbol;Acc:30661]	
UBA3	Ubiquitin-like modifier activating enzyme 3 [Source:HGNC Symbol;Acc:12470]	
UBA6	Ubiquitin-like modifier activating enzyme 6 [Source:HGNC Symbol;Acc:25581]	
UBAC1	UBA domain containing 1 [Source:HGNC Symbol;Acc:30221]	
UBAC2	UBA domain containing 2 [Source:HGNC Symbol;Acc:20486]	
UBAP1	Ubiquitin associated protein 1 [Source:HGNC Symbol;Acc:12461]	
UBAP2L	Ubiquitin associated protein 2-like [Source:HGNC Symbol;Acc:29877]	
UBASH3A	Ubiquitin associated and SH3 domain containing A [Source:HGNC Symbol;Acc:12462]	
UBASH3B	Ubiquitin associated and SH3 domain containing B [Source:HGNC Symbol;Acc:29884]	
UBE2CBP	Ubiquitin-conjugating enzyme E2C binding protein [Source:HGNC Symbol;Acc:21381]	
UBE2D2	Ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) [Source:HGNC Symbol;Acc:12475]	
UBE2G1	Ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast) [Source:HGNC Symbol;Acc:12482]	
UBE2H	Ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) [Source:HGNC Symbol;Acc:12484]	
UBE2N	Ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast) [Source:HGNC Symbol;Acc:12492]	
UBE2NL	Ubiquitin-conjugating enzyme E2N-like [Source:HGNC Symbol;Acc:31710]	
UBE2O	Ubiquitin-conjugating enzyme E2O [Source:HGNC Symbol;Acc:29554]	
UBE2QL1	Ubiquitin-conjugating enzyme E2Q family-like 1 [Source:HGNC Symbol;Acc:37269]	
UBE2R2	Ubiquitin-conjugating enzyme E2R 2 [Source:HGNC Symbol;Acc:19907]	

UBE3B	Ubiquitin protein ligase E3B [Source:HGNC Symbol;Acc:13478]	
UBE3C	Ubiquitin protein ligase E3C [Source:HGNC Symbol;Acc:16803]	
UBFD1	Ubiquitin family domain containing 1 [Source:HGNC Symbol;Acc:30565]	
UBL3	Ubiquitin-like 3 [Source:HGNC Symbol;Acc:12504]	
UBLCP1	Ubiquitin-like domain containing CTD phosphatase 1 [Source:HGNC Symbol;Acc:28110]	
UBN2	Ubinuclein 2 [Source:HGNC Symbol;Acc:21931]	
UBQLN1	Ubiquilin 1 [Source:HGNC Symbol;Acc:12508]	
UBQLN2	Ubiquilin 2 [Source:HGNC Symbol;Acc:12509]	
UBR1	Ubiquitin protein ligase E3 component n-recognin 1 [Source:HGNC Symbol;Acc:16808]	
UBR2	Ubiquitin protein ligase E3 component n-recognin 2 [Source:HGNC Symbol;Acc:21289]	
UBR4	Ubiquitin protein ligase E3 component n-recognin 4 [Source:HGNC Symbol;Acc:30313]	
UBR5	Ubiquitin protein ligase E3 component n-recognin 5 [Source:HGNC Symbol;Acc:16806]	√
UBTF	Upstream binding transcription factor, RNA polymerase I [Source:HGNC Symbol;Acc:12511]	
UBXN10	UBX domain protein 10 [Source:HGNC Symbol;Acc:26354]	
UBXN2B	UBX domain protein 2B [Source:HGNC Symbol;Acc:27035]	
UBXN7	UBX domain protein 7 [Source:HGNC Symbol;Acc:29119]	
UCHL5	Ubiquitin carboxyl-terminal hydrolase L5 [Source:HGNC Symbol;Acc:19678]	
UCKL1	Uridine-cytidine kinase 1-like 1 [Source:HGNC Symbol;Acc:15938]	
UFD1L	Ubiquitin fusion degradation 1 like (yeast) [Source:HGNC Symbol;Acc:12520]	
UFSP2	UFM1-specific peptidase 2 [Source:HGNC Symbol;Acc:25640]	
UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:12524]	
UGGT1	UDP-glucose glycoprotein glucosyltransferase 1 [Source:HGNC Symbol;Acc:15663]	

UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:15664]	
UGT1A1	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:HGNC Symbol;Acc:12530]	
UGT1A10	UDP glucuronosyltransferase 1 family, polypeptide A10 [Source:HGNC Symbol;Acc:12531]	
UGT1A3	UDP glucuronosyltransferase 1 family, polypeptide A3 [Source:HGNC Symbol;Acc:12535]	
UGT1A4	UDP glucuronosyltransferase 1 family, polypeptide A4 [Source:HGNC Symbol;Acc:12536]	
UGT1A5	UDP glucuronosyltransferase 1 family, polypeptide A5 [Source:HGNC Symbol;Acc:12537]	
UGT1A6	UDP glucuronosyltransferase 1 family, polypeptide A6 [Source:HGNC Symbol;Acc:12538]	
UGT1A7	UDP glucuronosyltransferase 1 family, polypeptide A7 [Source:HGNC Symbol;Acc:12539]	
UGT1A8	UDP glucuronosyltransferase 1 family, polypeptide A8 [Source:HGNC Symbol;Acc:12540]	
UGT1A9	UDP glucuronosyltransferase 1 family, polypeptide A9 [Source:HGNC Symbol;Acc:12541]	
UGT2A3	UDP glucuronosyltransferase 2 family, polypeptide A3 [Source:HGNC Symbol;Acc:28528]	
UGT2B4	UDP glucuronosyltransferase 2 family, polypeptide B4 [Source:HGNC Symbol;Acc:12553]	
UGT3A1	UDP glycosyltransferase 3 family, polypeptide A1 [Source:HGNC Symbol;Acc:26625]	
UGT8	UDP glycosyltransferase 8 [Source:HGNC Symbol;Acc:12555]	
UHMK1	U2AF homology motif (UHM) kinase 1 [Source:HGNC Symbol;Acc:19683]	
UHRF1	Ubiquitin-like with PHD and ring finger domains 1 [Source:HGNC Symbol;Acc:12556]	
UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:21216]	
ULBP1	UL16 binding protein 1 [Source:HGNC Symbol;Acc:14893]	

ULBP2	UL16 binding protein 2 [Source:HGNC Symbol;Acc:14894]	
ULK1	Unc-51-like kinase 1 (C. Elegans) [Source:HGNC Symbol;Acc:12558]	
ULK3	Unc-51-like kinase 3 (C. Elegans) [Source:HGNC Symbol;Acc:19703]	
ULK4	Unc-51-like kinase 4 (C. Elegans) [Source:HGNC Symbol;Acc:15784]	
UNC13A	Unc-13 homolog A (C. Elegans) [Source:HGNC Symbol;Acc:23150]	
UNC45B	Unc-45 homolog B (C. Elegans) [Source:HGNC Symbol;Acc:14304]	
UNC5A	Unc-5 homolog A (C. Elegans) [Source:HGNC Symbol;Acc:12567]	
UNC5B	Unc-5 homolog B (C. Elegans) [Source:HGNC Symbol;Acc:12568]	
UNC5C	Unc-5 homolog C (C. Elegans) [Source:HGNC Symbol;Acc:12569]	
UNC5CL	Unc-5 homolog C (C. Elegans)-like [Source:HGNC Symbol;Acc:21203]	
UNC80	Unc-80 homolog (C. Elegans) [Source:HGNC Symbol;Acc:26582]	
UNG	Uracil-DNA glycosylase [Source:HGNC Symbol;Acc:12572]	
UNKL	Unkempt homolog (Drosophila)-like [Source:HGNC Symbol;Acc:14184]	
UPB1	Ureidopropionase, beta [Source:HGNC Symbol;Acc:16297]	
UPF3A	UPF3 regulator of nonsense transcripts homolog A (yeast) [Source:HGNC Symbol;Acc:20332]	
UQCC	Ubiquinol-cytochrome c reductase complex chaperone [Source:HGNC Symbol;Acc:15891]	
UQCR11	Ubiquinol-cytochrome c reductase, complex III subunit XI [Source:HGNC Symbol;Acc:30862]	
UQCRB	Ubiquinol-cytochrome c reductase binding protein [Source:HGNC Symbol;Acc:12582]	
UQCRC1	Ubiquinol-cytochrome c reductase core protein I [Source:HGNC Symbol;Acc:12585]	
UQCRC2	Ubiquinol-cytochrome c reductase core protein II [Source:HGNC Symbol;Acc:12586]	
URB1	URB1 ribosome biogenesis 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:17344]	
URGCP	Upregulator of cell proliferation [Source:HGNC Symbol;Acc:30890]	
UROD	Uroporphyrinogen decarboxylase [Source:HGNC Symbol;Acc:12591]	
USH1G	Usher syndrome 1G (autosomal recessive) [Source:HGNC Symbol;Acc:16356]	

USH2A	Usher syndrome 2A (autosomal recessive, mild) [Source:HGNC Symbol;Acc:12601]	
USHBP1	Usher syndrome 1C binding protein 1 [Source:HGNC Symbol;Acc:24058]	
USO1	USO1 vesicle docking protein homolog (yeast) [Source:HGNC Symbol;Acc:30904]	
USP11	Ubiquitin specific peptidase 11 [Source:HGNC Symbol;Acc:12609]	
USP13	Ubiquitin specific peptidase 13 (isopeptidase T-3) [Source:HGNC Symbol;Acc:12611]	
USP14	Ubiquitin specific peptidase 14 (trna-guanine transglycosylase) [Source:HGNC Symbol;Acc:12612]	
USP16	Ubiquitin specific peptidase 16 [Source:HGNC Symbol;Acc:12614]	
USP17L2	Ubiquitin specific peptidase 17-like 2 [Source:HGNC Symbol;Acc:34434]	
USP19	Ubiquitin specific peptidase 19 [Source:HGNC Symbol;Acc:12617]	
USP2	Ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:12618]	
USP20	Ubiquitin specific peptidase 20 [Source:HGNC Symbol;Acc:12619]	
USP22	Ubiquitin specific peptidase 22 [Source:HGNC Symbol;Acc:12621]	
USP24	Ubiquitin specific peptidase 24 [Source:HGNC Symbol;Acc:12623]	
USP25	Ubiquitin specific peptidase 25 [Source:HGNC Symbol;Acc:12624]	
USP26	Ubiquitin specific peptidase 26 [Source:HGNC Symbol;Acc:13485]	
USP28	Ubiquitin specific peptidase 28 [Source:HGNC Symbol;Acc:12625]	
USP3	Ubiquitin specific peptidase 3 [Source:HGNC Symbol;Acc:12626]	
USP30	Ubiquitin specific peptidase 30 [Source:HGNC Symbol;Acc:20065]	
USP31	Ubiquitin specific peptidase 31 [Source:HGNC Symbol;Acc:20060]	
USP32	Ubiquitin specific peptidase 32 [Source:HGNC Symbol;Acc:19143]	
USP33	Ubiquitin specific peptidase 33 [Source:HGNC Symbol;Acc:20059]	
USP34	Ubiquitin specific peptidase 34 [Source:HGNC Symbol;Acc:20066]	
USP35	Ubiquitin specific peptidase 35 [Source:HGNC Symbol;Acc:20061]	
USP36	Ubiquitin specific peptidase 36 [Source:HGNC Symbol;Acc:20062]	
USP37	Ubiquitin specific peptidase 37 [Source:HGNC Symbol;Acc:20063]	
USP38	Ubiquitin specific peptidase 38 [Source:HGNC Symbol;Acc:20067]	
USP40	Ubiquitin specific peptidase 40 [Source:HGNC Symbol;Acc:20069]	
USP42	Ubiquitin specific peptidase 42 [Source:HGNC Symbol;Acc:20068]	
USP43	Ubiquitin specific peptidase 43 [Source:HGNC Symbol;Acc:20072]	

USP44	Ubiquitin specific peptidase 44 [Source:HGNC Symbol;Acc:20064]	
USP45	Ubiquitin specific peptidase 45 [Source:HGNC Symbol;Acc:20080]	
USP46	Ubiquitin specific peptidase 46 [Source:HGNC Symbol;Acc:20075]	
USP47	Ubiquitin specific peptidase 47 [Source:HGNC Symbol;Acc:20076]	
USP48	Ubiquitin specific peptidase 48 [Source:HGNC Symbol;Acc:18533]	
USP54	Ubiquitin specific peptidase 54 [Source:HGNC Symbol;Acc:23513]	
USP7	Ubiquitin specific peptidase 7 (herpes virus-associated) [Source:HGNC Symbol;Acc:12630]	
USP8	Ubiquitin specific peptidase 8 [Source:HGNC Symbol;Acc:12631]	
USP9Y	Ubiquitin specific peptidase 9, Y-linked [Source:HGNC Symbol;Acc:12633]	
UTP15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25758]	
UTP20	UTP20, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:17897]	
UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:28224]	
UTP3	UTP3, small subunit (SSU) processome component, homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:24477]	
UTP6	UTP6, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:18279]	
UTRN	Utrophin [Source:HGNC Symbol;Acc:12635]	
VAC14	Vac14 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25507]	
VANGL1	Vang-like 1 (van gogh, Drosophila) [Source:HGNC Symbol;Acc:15512]	
VANGL2	Vang-like 2 (van gogh, Drosophila) [Source:HGNC Symbol;Acc:15511]	
VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C [Source:HGNC Symbol;Acc:12649]	
VARS2	Valyl-trna synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:21642]	
VASH2	Vasohibin 2 [Source:HGNC Symbol;Acc:25723]	
VASN	Vasorin [Source:HGNC Symbol;Acc:18517]	
VAT1	Vesicle amine transport protein 1 homolog (T. Californica) [Source:HGNC Symbol;Acc:16919]	

VAV2	Vav 2 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:12658]	
VCAM1	Vascular cell adhesion molecule 1 [Source:HGNC Symbol;Acc:12663]	
VCAN	Versican [Source:HGNC Symbol;Acc:2464]	
VCL	Vinculin [Source:HGNC Symbol;Acc:12665]	
VCP	Valosin containing protein [Source:HGNC Symbol;Acc:12666]	
VCPIP1	Valosin containing protein (p97)/p47 complex interacting protein 1 [Source:HGNC Symbol;Acc:30897]	
VDAC1	Voltage-dependent anion channel 1 [Source:HGNC Symbol;Acc:12669]	
VEGFA	Vascular endothelial growth factor A [Source:HGNC Symbol;Acc:12680]	
VEGFC	Vascular endothelial growth factor C [Source:HGNC Symbol;Acc:12682]	
VENTX	VENT homeobox homolog (Xenopus laevis) [Source:HGNC Symbol;Acc:13639]	
VEZF1	Vascular endothelial zinc finger 1 [Source:HGNC Symbol;Acc:12949]	
VEZT	Vezatin, adherens junctions transmembrane protein [Source:HGNC Symbol;Acc:18258]	
VGLL1	Vestigial like 1 (Drosophila) [Source:HGNC Symbol;Acc:20985]	
VGLL3	Vestigial like 3 (Drosophila) [Source:HGNC Symbol;Acc:24327]	
VGLL4	Vestigial like 4 (Drosophila) [Source:HGNC Symbol;Acc:28966]	
VHL	Von Hippel-Lindau tumor suppressor [Source:HGNC Symbol;Acc:12687]	√
VIL1	Villin 1 [Source:HGNC Symbol;Acc:12690]	
VIPR1	Vasoactive intestinal peptide receptor 1 [Source:HGNC Symbol;Acc:12694]	
VLDLR	Very low density lipoprotein receptor [Source:HGNC Symbol;Acc:12698]	
VMAC	Vimentin-type intermediate filament associated coiled-coil protein [Source:HGNC Symbol;Acc:33803]	
VN1R6P	Vomeronasal 1 receptor 6 pseudogene [Source:HGNC Symbol;Acc:13712]	
VNN1	Vanin 1 [Source:HGNC Symbol;Acc:12705]	
VNN2	Vanin 2 [Source:HGNC Symbol;Acc:12706]	
VNN3	Vanin 3 [Source:HGNC Symbol;Acc:16431]	
VOPP1	Vesicular, overexpressed in cancer, prosurvival protein 1 [Source:HGNC Symbol;Acc:34518]	
VPS13B	Vacuolar protein sorting 13 homolog B (yeast) [Source:HGNC Symbol;Acc:2183]	

VPS13C	Vacuolar protein sorting 13 homolog C (S. Cerevisiae) [Source:HGNC Symbol;Acc:23594]	
VPS13D	Vacuolar protein sorting 13 homolog D (S. Cerevisiae) [Source:HGNC Symbol;Acc:23595]	
VPS16	Vacuolar protein sorting 16 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:14584]	
VPS18	Vacuolar protein sorting 18 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:15972]	
VPS26B	Vacuolar protein sorting 26 homolog B (S. Pombe) [Source:HGNC Symbol;Acc:28119]	
VPS33A	Vacuolar protein sorting 33 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:18179]	
VPS37C	Vacuolar protein sorting 37 homolog C (S. Cerevisiae) [Source:HGNC Symbol;Acc:26097]	
VPS39	Vacuolar protein sorting 39 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:20593]	
VPS4A	Vacuolar protein sorting 4 homolog A (S. Cerevisiae) [Source:HGNC Symbol;Acc:13488]	
VPS52	Vacuolar protein sorting 52 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:10518]	
VPS54	Vacuolar protein sorting 54 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:18652]	
VRK1	Vaccinia related kinase 1 [Source:HGNC Symbol;Acc:12718]	
VRK2	Vaccinia related kinase 2 [Source:HGNC Symbol;Acc:12719]	
VSIG8	V-set and immunoglobulin domain containing 8 [Source:HGNC Symbol;Acc:32063]	
VSTM2A	V-set and transmembrane domain containing 2A [Source:HGNC Symbol;Acc:28499]	
VTA1	Vps20-associated 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:20954]	
VTCN1	V-set domain containing T cell activation inhibitor 1 [Source:HGNC Symbol;Acc:28873]	

VWA2	Von Willebrand factor A domain containing 2 [Source:HGNC Symbol;Acc:24709]	
VWA3B	Von Willebrand factor A domain containing 3B [Source:HGNC Symbol;Acc:28385]	
VWA5A	Von Willebrand factor A domain containing 5A [Source:HGNC Symbol;Acc:6658]	
VWA5B1	Von Willebrand factor A domain containing 5B1 [Source:HGNC Symbol;Acc:26538]	
VWCE	Von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:26487]	
VWF	Von Willebrand factor [Source:HGNC Symbol;Acc:12726]	
WAPAL	Wings apart-like homolog (Drosophila) [Source:HGNC Symbol;Acc:23293]	
WBSCR16	Williams-Beuren syndrome chromosome region 16 [Source:HGNC Symbol;Acc:14948]	
WBSCR17	Williams-Beuren syndrome chromosome region 17 [Source:HGNC Symbol;Acc:16347]	
WDFY1	WD repeat and FYVE domain containing 1 [Source:HGNC Symbol;Acc:20451]	
WDFY4	WDFY family member 4 [Source:HGNC Symbol;Acc:29323]	
WDPCP	WD repeat containing planar cell polarity effector [Source:HGNC Symbol;Acc:28027]	
WDR11	WD repeat domain 11 [Source:HGNC Symbol;Acc:13831]	
WDR12	WD repeat domain 12 [Source:HGNC Symbol;Acc:14098]	
WDR19	WD repeat domain 19 [Source:HGNC Symbol;Acc:18340]	
WDR20	WD repeat domain 20 [Source:HGNC Symbol;Acc:19667]	
WDR27	WD repeat domain 27 [Source:HGNC Symbol;Acc:21248]	
WDR3	WD repeat domain 3 [Source:HGNC Symbol;Acc:12755]	
WDR33	WD repeat domain 33 [Source:HGNC Symbol;Acc:25651]	
WDR34	WD repeat domain 34 [Source:HGNC Symbol;Acc:28296]	
WDR35	WD repeat domain 35 [Source:HGNC Symbol;Acc:29250]	
WDR36	WD repeat domain 36 [Source:HGNC Symbol;Acc:30696]	
WDR37	WD repeat domain 37 [Source:HGNC Symbol;Acc:31406]	
WDR4	WD repeat domain 4 [Source:HGNC Symbol;Acc:12756]	

WDR41	WD repeat domain 41 [Source:HGNC Symbol;Acc:25601]	
WDR44	WD repeat domain 44 [Source:HGNC Symbol;Acc:30512]	
WDR46	WD repeat domain 46 [Source:HGNC Symbol;Acc:13923]	
WDR47	WD repeat domain 47 [Source:HGNC Symbol;Acc:29141]	
WDR54	WD repeat domain 54 [Source:HGNC Symbol;Acc:25770]	
WDR55	WD repeat domain 55 [Source:HGNC Symbol;Acc:25971]	
WDR60	WD repeat domain 60 [Source:HGNC Symbol;Acc:21862]	
WDR65	WD repeat domain 65 [Source:HGNC Symbol;Acc:26485]	
WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:28506]	
WDR67	WD repeat domain 67 [Source:HGNC Symbol;Acc:30888]	
WDR7	WD repeat domain 7 [Source:HGNC Symbol;Acc:13490]	
WDR77	WD repeat domain 77 [Source:HGNC Symbol;Acc:29652]	
WDR78	WD repeat domain 78 [Source:HGNC Symbol;Acc:26252]	
WDR8	WD repeat domain 8 [Source:HGNC Symbol;Acc:12759]	
WDR81	WD repeat domain 81 [Source:HGNC Symbol;Acc:26600]	
WDR86	WD repeat domain 86 [Source:HGNC Symbol;Acc:28020]	
WDR88	WD repeat domain 88 [Source:HGNC Symbol;Acc:26999]	
WDR91	WD repeat domain 91 [Source:HGNC Symbol;Acc:24997]	
WDR96	WD repeat domain 96 [Source:HGNC Symbol;Acc:26684]	
WDTC1	WD and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:29175]	
WDYHV1	WDYHV motif containing 1 [Source:HGNC Symbol;Acc:25490]	
WEE1	WEE1 homolog (S. Pombe) [Source:HGNC Symbol;Acc:12761]	
WFDC8	WAP four-disulfide core domain 8 [Source:HGNC Symbol;Acc:16163]	
WFIKKN2	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:HGNC Symbol;Acc:30916]	
WFS1	Wolfram syndrome 1 (wolframin) [Source:HGNC Symbol;Acc:12762]	
WHSC1	Wolf-Hirschhorn syndrome candidate 1	√
WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1	√
WIPI2	WD repeat domain, phosphoinositide interacting 2 [Source:HGNC Symbol;Acc:32225]	
WISP3	WNT1 inducible signaling pathway protein 3 [Source:HGNC Symbol;Acc:12771]	
WIZ	Widely interspaced zinc finger motifs [Source:HGNC Symbol;Acc:30917]	

WLS	Wntless homolog (Drosophila) [Source:HGNC Symbol;Acc:30238]	
WNK1	WNK lysine deficient protein kinase 1 [Source:HGNC Symbol;Acc:14540]	
WNK2	WNK lysine deficient protein kinase 2 [Source:HGNC Symbol;Acc:14542]	
WNK3	WNK lysine deficient protein kinase 3 [Source:HGNC Symbol;Acc:14543]	
WNK4	WNK lysine deficient protein kinase 4 [Source:HGNC Symbol;Acc:14544]	
WNT16	Wingless-type MMTV integration site family, member 16 [Source:HGNC Symbol;Acc:16267]	
WNT2B	Wingless-type MMTV integration site family, member 2B [Source:HGNC Symbol;Acc:12781]	
WNT7A	Wingless-type MMTV integration site family, member 7A [Source:HGNC Symbol;Acc:12786]	
WNT8A	Wingless-type MMTV integration site family, member 8A [Source:HGNC Symbol;Acc:12788]	
WNT9A	Wingless-type MMTV integration site family, member 9A [Source:HGNC Symbol;Acc:12778]	
WNT9B	Wingless-type MMTV integration site family, member 9B [Source:HGNC Symbol;Acc:12779]	
WRAP53	WD repeat containing, antisense to TP53 [Source:HGNC Symbol;Acc:25522]	
WRN	Werner syndrome, recq helicase-like	√
WRNIP1	Werner helicase interacting protein 1 [Source:HGNC Symbol;Acc:20876]	
WSB1	WD repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:19221]	
WSCD1	WSC domain containing 1 [Source:HGNC Symbol;Acc:29060]	
WSCD2	WSC domain containing 2 [Source:HGNC Symbol;Acc:29117]	
WTAP	Wilms tumor 1 associated protein [Source:HGNC Symbol;Acc:16846]	
WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:29435]	
WWC2	WW and C2 domain containing 2 [Source:HGNC Symbol;Acc:24148]	
WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:29237]	
WWOX	WW domain containing oxidoreductase [Source:HGNC Symbol;Acc:12799]	
WWP1	WW domain containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:17004]	

WWP2	WW domain containing E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:16804]	
WWTR1	WW domain containing transcription regulator 1	√
XAGE3	X antigen family, member 3 [Source:HGNC Symbol;Acc:14618]	
XCR1	Chemokine (C motif) receptor 1 [Source:HGNC Symbol;Acc:1625]	
XDH	Xanthine dehydrogenase [Source:HGNC Symbol;Acc:12805]	
XG	Xg blood group [Source:HGNC Symbol;Acc:12806]	
XIAP	X-linked inhibitor of apoptosis [Source:HGNC Symbol;Acc:592]	
XIRP1	Xin actin-binding repeat containing 1 [Source:HGNC Symbol;Acc:14301]	
XIRP2	Xin actin-binding repeat containing 2 [Source:HGNC Symbol;Acc:14303]	
XKR4	XK, Kell blood group complex subunit-related family, member 4 [Source:HGNC Symbol;Acc:29394]	
XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative [Source:HGNC Symbol;Acc:28052]	
XPO4	Exportin 4 [Source:HGNC Symbol;Acc:17796]	
XPO5	Exportin 5 [Source:HGNC Symbol;Acc:17675]	
XPO7	Exportin 7 [Source:HGNC Symbol;Acc:14108]	
XPOT	Exportin, trna (nuclear export receptor for trnas) [Source:HGNC Symbol;Acc:12826]	
XPR1	Xenotropic and polytropic retrovirus receptor 1 [Source:HGNC Symbol;Acc:12827]	
XRCC2	X-ray repair complementing defective repair in Chinese hamster cells 2 [Source:HGNC Symbol;Acc:12829]	
XRRA1	X-ray radiation resistance associated 1 [Source:HGNC Symbol;Acc:18868]	
XXbac-B461K10.4	Protein MICAL-3 isoform 1 [Source:refseq peptide;Acc:NP_056056]	
XYLB	Xylulokinase homolog (H. Influenzae) [Source:HGNC Symbol;Acc:12839]	
XYLT1	Xylosyltransferase I [Source:HGNC Symbol;Acc:15516]	
YARS	Tyrosyl-trna synthetase [Source:HGNC Symbol;Acc:12840]	
YBEY	Ybey metallopeptidase (putative) [Source:HGNC Symbol;Acc:1299]	
YEATS2	YEATS domain containing 2 [Source:HGNC Symbol;Acc:25489]	
YEATS4	YEATS domain containing 4 [Source:HGNC Symbol;Acc:24859]	
YIPF6	Yip1 domain family, member 6 [Source:HGNC Symbol;Acc:28304]	

YKT6	YKT6 v-SNARE homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:16959]	
YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (S. Cerevisiae) [Source:HGNC Symbol;Acc:25035]	
YPEL2	Yippee-like 2 (Drosophila) [Source:HGNC Symbol;Acc:18326]	
YTHDC2	YTH domain containing 2 [Source:HGNC Symbol;Acc:24721]	
YWHAG	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide [Source:HGNC Symbol;Acc:12852]	
YWHAH	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide [Source:HGNC Symbol;Acc:12853]	
YWHAZ	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide [Source:HGNC Symbol;Acc:12855]	
YY2	YY2 transcription factor [Source:HGNC Symbol;Acc:31684]	
ZACN	Zinc activated ligand-gated ion channel [Source:HGNC Symbol;Acc:29504]	
ZADH2	Zinc binding alcohol dehydrogenase domain containing 2 [Source:HGNC Symbol;Acc:28697]	
ZAN	Zonadhesin [Source:HGNC Symbol;Acc:12857]	
ZBBX	Zinc finger, B-box domain containing [Source:HGNC Symbol;Acc:26245]	
ZBED1	Zinc finger, BED-type containing 1 [Source:HGNC Symbol;Acc:447]	
ZBED5	Zinc finger, BED-type containing 5 [Source:HGNC Symbol;Acc:30803]	
ZBP1	Z-DNA binding protein 1 [Source:HGNC Symbol;Acc:16176]	
ZBTB1	Zinc finger and BTB domain containing 1 [Source:HGNC Symbol;Acc:20259]	
ZBTB10	Zinc finger and BTB domain containing 10 [Source:HGNC Symbol;Acc:30953]	
ZBTB11	Zinc finger and BTB domain containing 11 [Source:HGNC Symbol;Acc:16740]	
ZBTB17	Zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:12936]	
ZBTB24	Zinc finger and BTB domain containing 24 [Source:HGNC Symbol;Acc:21143]	
ZBTB26	Zinc finger and BTB domain containing 26 [Source:HGNC Symbol;Acc:23383]	

ZBTB33	Zinc finger and BTB domain containing 33 [Source:HGNC Symbol;Acc:16682]	
ZBTB34	Zinc finger and BTB domain containing 34 [Source:HGNC Symbol;Acc:31446]	
ZBTB38	Zinc finger and BTB domain containing 38 [Source:HGNC Symbol;Acc:26636]	
ZBTB4	Zinc finger and BTB domain containing 4 [Source:HGNC Symbol;Acc:23847]	
ZBTB40	Zinc finger and BTB domain containing 40 [Source:HGNC Symbol;Acc:29045]	
ZBTB41	Zinc finger and BTB domain containing 41 [Source:HGNC Symbol;Acc:24819]	
ZBTB42	Zinc finger and BTB domain containing 42 [Source:HGNC Symbol;Acc:32550]	
ZBTB45	Zinc finger and BTB domain containing 45 [Source:HGNC Symbol;Acc:23715]	
ZBTB46	Zinc finger and BTB domain containing 46 [Source:HGNC Symbol;Acc:16094]	
ZBTB48	Zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:4930]	
ZBTB49	Zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:19883]	
ZBTB7A	Zinc finger and BTB domain containing 7A [Source:HGNC Symbol;Acc:18078]	
ZBTB7B	Zinc finger and BTB domain containing 7B [Source:HGNC Symbol;Acc:18668]	
ZBTB8B	Zinc finger and BTB domain containing 8B [Source:HGNC Symbol;Acc:37057]	
ZBTB9	Zinc finger and BTB domain containing 9 [Source:HGNC Symbol;Acc:28323]	
ZC3H11A	Zinc finger CCCH-type containing 11A [Source:HGNC Symbol;Acc:29093]	
ZC3H12A	Zinc finger CCCH-type containing 12A [Source:HGNC Symbol;Acc:26259]	
ZC3H12B	Zinc finger CCCH-type containing 12B [Source:HGNC Symbol;Acc:17407]	

ZC3H18	Zinc finger CCCH-type containing 18 [Source:HGNC Symbol;Acc:25091]	
ZC3H3	Zinc finger CCCH-type containing 3 [Source:HGNC Symbol;Acc:28972]	
ZC3H4	Zinc finger CCCH-type containing 4 [Source:HGNC Symbol;Acc:17808]	
ZC3H6	Zinc finger CCCH-type containing 6 [Source:HGNC Symbol;Acc:24762]	
ZCCHC11	Zinc finger, CCHC domain containing 11 [Source:HGNC Symbol;Acc:28981]	
ZCCHC13	Zinc finger, CCHC domain containing 13 [Source:HGNC Symbol;Acc:31749]	
ZCCHC14	Zinc finger, CCHC domain containing 14 [Source:HGNC Symbol;Acc:24134]	
ZCCHC17	Zinc finger, CCHC domain containing 17 [Source:HGNC Symbol;Acc:30246]	
ZCCHC2	Zinc finger, CCHC domain containing 2 [Source:HGNC Symbol;Acc:22916]	
ZCCHC24	Zinc finger, CCHC domain containing 24 [Source:HGNC Symbol;Acc:26911]	
ZCCHC4	Zinc finger, CCHC domain containing 4 [Source:HGNC Symbol;Acc:22917]	
ZCCHC6	Zinc finger, CCHC domain containing 6 [Source:HGNC Symbol;Acc:25817]	
ZCCHC7	Zinc finger, CCHC domain containing 7 [Source:HGNC Symbol;Acc:26209]	
ZDBF2	Zinc finger, DBF-type containing 2 [Source:HGNC Symbol;Acc:29313]	
ZDHHC1	Zinc finger, DHHC-type containing 1 [Source:HGNC Symbol;Acc:17916]	
ZDHHC11	Zinc finger, DHHC-type containing 11 [Source:HGNC Symbol;Acc:19158]	
ZDHHC14	Zinc finger, DHHC-type containing 14 [Source:HGNC Symbol;Acc:20341]	
ZDHHC17	Zinc finger, DHHC-type containing 17 [Source:HGNC Symbol;Acc:18412]	
ZDHHC2	Zinc finger, DHHC-type containing 2 [Source:HGNC Symbol;Acc:18469]	
ZDHHC22	Zinc finger, DHHC-type containing 22 [Source:HGNC Symbol;Acc:20106]	
ZDHHC6	Zinc finger, DHHC-type containing 6 [Source:HGNC Symbol;Acc:19160]	
ZDHHC7	Zinc finger, DHHC-type containing 7 [Source:HGNC Symbol;Acc:18459]	
ZDHHC8	Zinc finger, DHHC-type containing 8 [Source:HGNC Symbol;Acc:18474]	
ZDHHC9	Zinc finger, DHHC-type containing 9 [Source:HGNC Symbol;Acc:18475]	
ZER1	Zer-1 homolog (C. Elegans) [Source:HGNC Symbol;Acc:30960]	
ZFAND3	Zinc finger, AN1-type domain 3 [Source:HGNC Symbol;Acc:18019]	
ZFAT	Zinc finger and AT hook domain containing	
ZFHX2	Zinc finger homeobox 2	

ZFHX3	Zinc finger homeobox 3	
ZFHX4	Zinc finger homeobox 4	
ZFP106	Zinc finger protein 106 homolog (mouse)	
ZFP2	Zinc finger protein 2 homolog (mouse)	
ZFP28	Zinc finger protein 28 homolog (mouse)	
ZFP3	Zinc finger protein 3 homolog (mouse)	
ZFP30	Zinc finger protein 30 homolog (mouse)	
ZFP36L2	Zinc finger protein 36, C3H type-like 2	
ZFP37	Zinc finger protein 37 homolog (mouse)	
ZFP41	Zinc finger protein 41 homolog (mouse)	
ZFP42	Zinc finger protein 42 homolog (mouse)	
ZFP57	Zinc finger protein 57 homolog (mouse)	
ZFP62	Zinc finger protein 62 homolog (mouse)	
ZFP64	Zinc finger protein 64 homolog (mouse)	
ZFPM2	Zinc finger protein, multitype 2	
ZFX	Zinc finger protein, X-linked	
ZFY	Zinc finger protein, Y-linked	
ZFYVE1	Zinc finger, FYVE domain containing 1	
ZFYVE20	Zinc finger, FYVE domain containing 20	
ZFYVE26	Zinc finger, FYVE domain containing 26	
ZFYVE28	Zinc finger, FYVE domain containing 28	
ZG16	Zymogen granule protein 16 homolog (rat)	
ZHX3	Zinc fingers and homeoboxes 3	
ZIC1	Zic family member 1 (odd-paired homolog, Drosophila)	
ZIC2	Zic family member 2 (odd-paired homolog, Drosophila)	
ZIK1	Zinc finger protein interacting with K protein 1 homolog (mouse)	
ZIM3	Zinc finger, imprinted 3	
ZKSCAN1	Zinc finger with KRAB and SCAN domains 1	
ZKSCAN5	Zinc finger with KRAB and SCAN domains 5	
ZMAT5	Zinc finger, matrin-type 5	
ZMYM1	Zinc finger, MYM-type 1	
ZMYM3	Zinc finger, MYM-type 3	
ZMYM4	Zinc finger, MYM-type 4	

ZMYM5	Zinc finger, MYM-type 5	
ZMYND12	Zinc finger, MYND-type containing 12	
ZNF10	Zinc finger protein 10	
ZNF107	Zinc finger protein 107	
ZNF133	Zinc finger protein 133	
ZNF134	Zinc finger protein 134	
ZNF135	Zinc finger protein 135	
ZNF138	Zinc finger protein 138	
ZNF142	Zinc finger protein 142	
ZNF148	Zinc finger protein 148	
ZNF154	Zinc finger protein 154	
ZNF157	Zinc finger protein 157	
ZNF16	Zinc finger protein 16	
ZNF160	Zinc finger protein 160	
ZNF165	Zinc finger protein 165	
ZNF167	Zinc finger protein 167	
ZNF18	Zinc finger protein 18	
ZNF184	Zinc finger protein 184	
ZNF185	Zinc finger protein 185 (LIM domain)	
ZNF19	Zinc finger protein 19	
ZNF193	Zinc finger protein 193	
ZNF197	Zinc finger protein 197	
ZNF20	Zinc finger protein 20	
ZNF200	Zinc finger protein 200	
ZNF207	Zinc finger protein 207	
ZNF208	Zinc finger protein 208	
ZNF212	Zinc finger protein 212	
ZNF22	Zinc finger protein 22 (KOX 15)	
ZNF221	Zinc finger protein 221	
ZNF222	Zinc finger protein 222	
ZNF224	Zinc finger protein 224	
ZNF225	Zinc finger protein 225	
ZNF226	Zinc finger protein 226	

ZNF229	Zinc finger protein 229	
ZNF23	Zinc finger protein 23 (KOX 16)	
ZNF239	Zinc finger protein 239	
ZNF24	Zinc finger protein 24	
ZNF248	Zinc finger protein 248	
ZNF250	Zinc finger protein 250	
ZNF251	Zinc finger protein 251	
ZNF253	Zinc finger protein 253	
ZNF256	Zinc finger protein 256	
ZNF257	Zinc finger protein 257	
ZNF26	Zinc finger protein 26	
ZNF260	Zinc finger protein 260	
ZNF263	Zinc finger protein 263	
ZNF264	Zinc finger protein 264	
ZNF266	Zinc finger protein 266	
ZNF273	Zinc finger protein 273	
ZNF274	Zinc finger protein 274	
ZNF275	Zinc finger protein 275	
ZNF28	Zinc finger protein 28	
ZNF280C	Zinc finger protein 280C	
ZNF280D	Zinc finger protein 280D	
ZNF281	Zinc finger protein 281	
ZNF285	Zinc finger protein 285	
ZNF287	Zinc finger protein 287	
ZNF292	Zinc finger protein 292	
ZNF295	Zinc finger protein 295	
ZNF30	Zinc finger protein 30	
ZNF302	Zinc finger protein 302	
ZNF304	Zinc finger protein 304	
ZNF311	Zinc finger protein 311	
ZNF318	Zinc finger protein 318	
ZNF322A	Zinc finger protein 322A	
ZNF323	Zinc finger protein 323	

ZNF326	Zinc finger protein 326	
ZNF329	Zinc finger protein 329	
ZNF331	Zinc finger protein 331	√
ZNF335	Zinc finger protein 335	
ZNF33A	Zinc finger protein 33A	
ZNF33B	Zinc finger protein 33B	
ZNF341	Zinc finger protein 341	
ZNF343	Zinc finger protein 343	
ZNF345	Zinc finger protein 345	
ZNF347	Zinc finger protein 347	
ZNF354A	Zinc finger protein 354A	
ZNF354C	Zinc finger protein 354C	
ZNF365	Zinc finger protein 365	
ZNF366	Zinc finger protein 366	
ZNF37A	Zinc finger protein 37A	
ZNF382	Zinc finger protein 382	
ZNF384	Zinc finger protein 384	√
ZNF385A	Zinc finger protein 385A	
ZNF391	Zinc finger protein 391	
ZNF394	Zinc finger protein 394	
ZNF395	Zinc finger protein 395	
ZNF397	Zinc finger protein 397	
ZNF398	Zinc finger protein 398	
ZNF407	Zinc finger protein 407	
ZNF408	Zinc finger protein 408	
ZNF410	Zinc finger protein 410	
ZNF415	Zinc finger protein 415	
ZNF416	Zinc finger protein 416	
ZNF417	Zinc finger protein 417	
ZNF418	Zinc finger protein 418	
ZNF426	Zinc finger protein 426	
ZNF430	Zinc finger protein 430	
ZNF432	Zinc finger protein 432	

ZNF434	Zinc finger protein 434	
ZNF436	Zinc finger protein 436	
ZNF440	Zinc finger protein 440	
ZNF441	Zinc finger protein 441	
ZNF445	Zinc finger protein 445	
ZNF449	Zinc finger protein 449	
ZNF451	Zinc finger protein 451	
ZNF462	Zinc finger protein 462	
ZNF468	Zinc finger protein 468	
ZNF469	Zinc finger protein 469	
ZNF470	Zinc finger protein 470	
ZNF471	Zinc finger protein 471	
ZNF473	Zinc finger protein 473	
ZNF485	Zinc finger protein 485	
ZNF488	Zinc finger protein 488	
ZNF491	Zinc finger protein 491	
ZNF493	Zinc finger protein 493	
ZNF496	Zinc finger protein 496	
ZNF497	Zinc finger protein 497	
ZNF500	Zinc finger protein 500	
ZNF501	Zinc finger protein 501	
ZNF502	Zinc finger protein 502	
ZNF503	Zinc finger protein 503	
ZNF507	Zinc finger protein 507	
ZNF510	Zinc finger protein 510	
ZNF516	Zinc finger protein 516	
ZNF517	Zinc finger protein 517	
ZNF518B	Zinc finger protein 518B	
ZNF519	Zinc finger protein 519	
ZNF521	Zinc finger protein 521	√
ZNF525	Zinc finger protein 525	
ZNF526	Zinc finger protein 526	
ZNF527	Zinc finger protein 527	

ZNF529	Zinc finger protein 529	
ZNF530	Zinc finger protein 530	
ZNF534	Zinc finger protein 534	
ZNF541	Zinc finger protein 541	
ZNF544	Zinc finger protein 544	
ZNF546	Zinc finger protein 546	
ZNF549	Zinc finger protein 549	
ZNF552	Zinc finger protein 552	
ZNF555	Zinc finger protein 555	
ZNF558	Zinc finger protein 558	
ZNF561	Zinc finger protein 561	
ZNF562	Zinc finger protein 562	
ZNF564	Zinc finger protein 564	
ZNF566	Zinc finger protein 566	
ZNF568	Zinc finger protein 568	
ZNF571	Zinc finger protein 571	
ZNF573	Zinc finger protein 573	
ZNF577	Zinc finger protein 577	
ZNF581	Zinc finger protein 581	
ZNF582	Zinc finger protein 582	
ZNF584	Zinc finger protein 584	
ZNF585B	Zinc finger protein 585B	
ZNF586	Zinc finger protein 586	
ZNF587	Zinc finger protein 587	
ZNF589	Zinc finger protein 589	
ZNF592	Zinc finger protein 592	
ZNF599	Zinc finger protein 599	
ZNF600	Zinc finger protein 600	
ZNF605	Zinc finger protein 605	
ZNF608	Zinc finger protein 608	
ZNF609	Zinc finger protein 609	
ZNF610	Zinc finger protein 610	
ZNF611	Zinc finger protein 611	

ZNF613	Zinc finger protein 613	
ZNF614	Zinc finger protein 614	
ZNF615	Zinc finger protein 615	
ZNF618	Zinc finger protein 618	
ZNF619	Zinc finger protein 619	
ZNF620	Zinc finger protein 620	
ZNF621	Zinc finger protein 621	
ZNF622	Zinc finger protein 622	
ZNF623	Zinc finger protein 623	
ZNF626	Zinc finger protein 626	
ZNF628	Zinc finger protein 628	
ZNF630	Zinc finger protein 630	
ZNF638	Zinc finger protein 638	
ZNF642	Zinc finger protein 642	
ZNF643	Zinc finger protein 643	
ZNF645	Zinc finger protein 645	
ZNF648	Zinc finger protein 648	
ZNF649	Zinc finger protein 649	
ZNF652	Zinc finger protein 652	
ZNF653	Zinc finger protein 653	
ZNF658	Zinc finger protein 658	
ZNF664	Zinc finger protein 664	
ZNF665	Zinc finger protein 665	
ZNF667	Zinc finger protein 667	
ZNF671	Zinc finger protein 671	
ZNF672	Zinc finger protein 672	
ZNF677	Zinc finger protein 677	
ZNF678	Zinc finger protein 678	
ZNF684	Zinc finger protein 684	
ZNF697	Zinc finger protein 697	
ZNF7	Zinc finger protein 7	
ZNF701	Zinc finger protein 701	
ZNF701	Zinc finger protein 701	

ZNF704	Zinc finger protein 704	
ZNF705B	Zinc finger protein 705B	
ZNF705D	Zinc finger protein 705D	
ZNF706	Zinc finger protein 706	
ZNF71	Zinc finger protein 71	
ZNF711	Zinc finger protein 711	
ZNF713	Zinc finger protein 713	
ZNF714	Zinc finger protein 714	
ZNF717	Zinc finger protein 717	
ZNF720	Zinc finger protein 720	
ZNF730	Zinc finger protein 730	
ZNF74	Zinc finger protein 74	
ZNF746	Zinc finger protein 746	
ZNF749	Zinc finger protein 749	
ZNF750	Zinc finger protein 750	
ZNF75D	Zinc finger protein 75D	
ZNF765	Zinc finger protein 765	
ZNF771	Zinc finger protein 771	
ZNF772	Zinc finger protein 772	
ZNF773	Zinc finger protein 773	
ZNF776	Zinc finger protein 776	
ZNF780A	Zinc finger protein 780A	
ZNF780B	Zinc finger protein 780B	
ZNF782	Zinc finger protein 782	
ZNF783	Zinc finger family member 783	
ZNF789	Zinc finger protein 789	
ZNF792	Zinc finger protein 792	
ZNF8	Zinc finger protein 8	
ZNF804A	Zinc finger protein 804A	
ZNF805	Zinc finger protein 805	
ZNF808	Zinc finger protein 808	
ZNF81	Zinc finger protein 81	
ZNF813	Zinc finger protein 813	

ZNF814	Zinc finger protein 814	
ZNF816	Zinc finger protein 816	
ZNF823	Zinc finger protein 823	
ZNF827	Zinc finger protein 827	
ZNF829	Zinc finger protein 829	
ZNF830	Zinc finger protein 830	
ZNF831	Zinc finger protein 831	
ZNF836	Zinc finger protein 836	
ZNF837	Zinc finger protein 837	
ZNF839	Zinc finger protein 839	
ZNF84	Zinc finger protein 84	
ZNF845	Zinc finger protein 845	
ZNF860	Zinc finger protein 860	
ZNF862	Zinc finger protein 862	
ZNF879	Zinc finger protein 879	
ZNF880	Zinc finger protein 880	
ZNF92	Zinc finger protein 92	
ZNFX1	Zinc finger, NFX1-type containing 1	
ZNRF1	Zinc and ring finger 1	
ZP2	Zona pellucida glycoprotein 2 (sperm receptor)	
ZPLD1	Zona pellucida-like domain containing 1	
ZRANB3	Zinc finger, RAN-binding domain containing 3	
ZSCAN1	Zinc finger and SCAN domain containing 1	
ZSCAN12	Zinc finger and SCAN domain containing 12	
ZSCAN18	Zinc finger and SCAN domain containing 18	
ZSCAN23	Zinc finger and SCAN domain containing 23	
ZSCAN5A	Zinc finger and SCAN domain containing 5A	
ZSWIM1	Zinc finger, SWIM-type containing 1	
ZSWIM2	Zinc finger, SWIM-type containing 2	
ZSWIM5	Zinc finger, SWIM-type containing 5	
ZSWIM7	Zinc finger, SWIM-type containing 7	
ZUFSP	Zinc finger with UFM1-specific peptidase domain	
ZWINT	ZW10 interactor	

ZXDA	Zinc finger, X-linked, duplicated A	
ZXDB	Zinc finger, X-linked, duplicated B	
ZYG11B	Zyg-11 homolog B (C. Elegans)	
ZZEF1	Zinc finger, ZZ-type with EF-hand domain 1	
ZZZ3	Zinc finger, ZZ-type containing 3	

Suppementary Table 7. Predicted targets of hsa-miR-181a-5p by RNA22 v2 that are cancer genes.

Gene symbol	Gene name
AKAP9	A kinase (PRKA) anchor protein (yotiao) 9
ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
ARID2	AT rich interactive domain 2 (ARID, RFX-like)
ARNT	Aryl hydrocarbon receptor nuclear translocator
ASXL1	Additional sex combs like 1 (Drosophila)
ATM	Ataxia telangiectasia mutated
ATP1A1	ATPase, Na^+/K^+ transporting, alpha 1 polypeptide
ATRX	α Thalassemia/mental retardation syndrome X-linked
AXIN1	Axin 1
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)
BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)
BCL3	B-cell CLL/lymphoma 3
BCL6	B-cell CLL/lymphoma 6
BCOR	BCL6 corepressor
BCR	Breakpoint cluster region
BLM	Bloom syndrome, recq helicase-like
BMPR1A	Bone morphogenetic protein receptor, type IA
BRAF	V-raf murine sarcoma viral oncogene homolog B1
BRCA1	Breast cancer 1, early onset
BRD4	Bromodomain containing 4
BTG1	B-cell translocation gene 1, anti-proliferative
BUB1B	Budding uninhibited by benzimidazoles 1 homolog β (yeast)
C15orf55	Chromosome 15 open reading frame 55
C2orf44	Chromosome 2 open reading frame 44
CAMTA1	Calmodulin binding transcription activator 1
CARD11	Caspase recruitment domain family, member 11
CARS	Cysteinyl-trna synthetase
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b

CCND1	Cyclin D1
CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
CDK4	Cyclin-dependent kinase 4
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7
CHEK2	CHK2 checkpoint homolog (*S. Pombe*)
CHN1	Chimerin (chimaerin) 1
CIITA	Class II, major histocompatibility complex, transactivator
CLTC	Clathrin, heavy chain (Hc)
COL1A1	Collagen, type I, α1
CREB1	Camp responsive element binding protein 1
CREB3L2	Camp responsive element binding protein 3-like 2
CRTC3	CREB regulated transcription coactivator 3
CTNNB1	Catenin (cadherin-associated protein), β1, 88 kDa
CYLD	Cylindromatosis (turban tumor syndrome)
DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
DICER1	Dicer 1, ribonuclease type III
DNM2	Dynamin 2
DNMT3A	DNA (cytosine-5-)-methyltransferase 3 α
ECT2L	Epithelial cell transforming sequence 2 oncogene-like
EGFR	Epidermal growth factor receptor
ELF4	E74-like factor 4 (ets domain transcription factor)
ELL	Elongation factor RNA polymerase II
ERBB2	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
ERCC2	Excision repair cross-complementing rodent repair deficiency, complementation group 2
ETV5	Ets variant 5
EXT1	Exostosin 1
EZH2	Enhancer of zeste homolog 2 (Drosophila)
FANCA	Fanconi anemia, complementation group A
FANCD2	Fanconi anemia, complementation group D2
FBXO11	F-box protein 11
FBXW7	F-box and WD repeat domain containing 7

FGFR1	Fibroblast growth factor receptor 1
FGFR1OP	FGFR1 oncogene partner
FGFR2	Fibroblast growth factor receptor 2
FHIT	Fragile histidine triad gene
FNBP1	Formin binding protein 1
FOXP1	Forkhead box P1
GAS7	Growth arrest-specific 7
GATA2	GATA binding protein 2
GATA3	GATA binding protein 3
GNAQ	Guanine nucleotide binding protein (G protein), q polypeptide
GNAS	GNAS complex locus
GOLGA5	Golgin A5
GPHN	Gephyrin
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
HIP1	Huntingtin interacting protein 1
HMGA1	High mobility group AT-hook 1
HMGA2	High mobility group AT-hook 2
HRAS	V-Ha-ras Harvey rat sarcoma viral oncogene homolog
IDH1	Isocitrate dehydrogenase 1 ($NADP^+$), soluble
IDH2	Isocitrate dehydrogenase 2 ($NADP^+$), mitochondrial
IL6ST	Interleukin 6 signal transducer (gp130, oncostatin M receptor)
IL7R	Interleukin 7 receptor
ITK	IL2-inducible T-cell kinase
JAK3	Janus kinase 3
JAZF1	JAZF zinc finger 1
JUN	Jun proto-oncogene
KCNJ5	Potassium inwardly-rectifying channel, subfamily J, member 5
KDM5A	Lysine (K)-specific demethylase 5A
KIAA1549	KIAA1549
KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
KRAS	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog

LASP1	LIM and SH3 protein 1
LCP1	Lymphocyte cytosolic protein 1 (L-plastin)
LIFR	Leukemia inhibitory factor receptor α
LPP	LIM domain containing preferred translocation partner in lipoma
MAF	V-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
MALT1	Mucosa associated lymphoid tissue lymphoma translocation gene 1
MAML2	Mastermind-like 2 (Drosophila)
MAP2K1	Mitogen-activated protein kinase kinase 1
MAX	MYC associated factor X
MDM2	Mdm2 p53 binding protein homolog (mouse)
MDM4	Mdm4 p53 binding protein homolog (mouse)
MED12	Mediator complex subunit 12
MITF	Microphthalmia-associated transcription factor
MKL1	Megakaryoblastic leukemia (translocation) 1
MLF1	Myeloid leukemia factor 1
MLH1	Mutl homolog 1, colon cancer, nonpolyposis type 2 (*E. Coli*)
MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3
MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3
MLLT4	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
MLLT6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6
MN1	Meningioma (disrupted in balanced translocation) 1
MSH6	Muts homolog 6 (*E. Coli*)
MSI2	Musashi homolog 2 (Drosophila)
MSN	Moesin
MYD88	Myeloid differentiation primary response gene (88)
MYH11	Myosin, heavy chain 11, smooth muscle
MYST4	MYST histone acetyltransferase (monocytic leukemia) 4

NACA	Nascent polypeptide-associated complex α subunit
NCOA1	Nuclear receptor coactivator 1
NDRG1	N-myc downstream regulated 1
NF1	Neurofibromin 1
NF2	Neurofibromin 2 (merlin)
NIN	Ninein (GSK3B interacting protein)
NONO	Non-POU domain containing, octamer-binding
NOTCH1	Notch 1
NOTCH2	Notch 2
NT5C2	5'-nucleotidase, cytosolic II
NTRK3	Neurotrophic tyrosine kinase, receptor, type 3
NUP214	Nucleoporin 214 kDa
NUP98	Nucleoporin 98 kDa
OLIG2	Oligodendrocyte lineage transcription factor 2
P2RY8	Purinergic receptor P2Y, G-protein coupled, 8
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)
PALB2	Partner and localizer of BRCA2
PAX5	Paired box 5
PAX7	Paired box 7
PBRM1	Polybromo 1
PBX1	Pre-B-cell leukemia homeobox 1
PDE4DIP	Phosphodiesterase 4D interacting protein
PDGFRA	Platelet-derived growth factor receptor, α polypeptide
PDGFRB	Platelet-derived growth factor receptor, β polypeptide
PER1	Period homolog 1 (Drosophila)
PHF6	PHD finger protein 6
PHOX2B	Paired-like homeobox 2b
PIK3CA	Phosphoinositide-3-kinase, catalytic, α polypeptide
PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1α
PLAG1	Pleiomorphic adenoma gene 1
PML	Promyelocytic leukemia
POU2AF1	POU class 2 associating factor 1
PPARG	Peroxisome proliferator-activated receptor γ

PRDM16	PR domain containing 16
PTEN	Phosphatase and tensin homolog
PTPN11	Protein tyrosine phosphatase, non-receptor type 11
PTPRC	Protein tyrosine phosphatase, receptor type, C
RAD21	RAD21 homolog (*S. Pombe*)
RAF1	V-raf-1 murine leukemia viral oncogene homolog 1
RALGDS	Ral guanine nucleotide dissociation stimulator
RANBP17	RAN binding protein 17
RET	Ret proto-oncogene
ROS1	C-ros oncogene 1 , receptor tyrosine kinase
RPN1	Ribophorin I
SBDS	Shwachman-Bodian-Diamond syndrome
SDC4	Syndecan 4
SDHD	Succinate dehydrogenase complex, subunit D, integral membrane protein
SETBP1	SET binding protein 1
SETD2	SET domain containing 2
SFPQ	Splicing factor proline/glutamine-rich
SLC45A3	Solute carrier family 45, member 3
SMO	Smoothened homolog (Drosophila)
SOX2	SRY (sex determining region Y)-box 2
SRGAP3	SLIT-ROBO Rho gtpase activating protein 3
SS18	Synovial sarcoma translocation, chromosome 18
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1
SSX1	Synovial sarcoma, X breakpoint 1
SSX2	Synovial sarcoma, X breakpoint 2
SSX4	Synovial sarcoma, X breakpoint 4
STAG2	Stromal antigen 2
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)
SUZ12	Suppressor of zeste 12 homolog (Drosophila)
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68 kDa
TAL1	T-cell acute lymphocytic leukemia 1
TBL1XR1	Transducin β-like 1 X-linked receptor 1

TCL1A	T-cell leukemia/lymphoma 1A
TERT	Telomerase reverse transcriptase
TET2	Tet oncogene family member 2
TFRC	Transferrin receptor (p90, CD71)
THRAP3	Thyroid hormone receptor associated protein 3
TMPRSS2	Transmembrane protease, serine 2
TNFAIP3	Tumor necrosis factor, alpha-induced protein 3
TNFRSF14	Tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
TOP1	Topoisomerase (DNA) I
TRAF7	TNF receptor-associated factor 7
TRIM33	Tripartite motif containing 33
TRIP11	Thyroid hormone receptor interactor 11
TRRAP	Transformation/transcription domain-associated protein
TSC1	Tuberous sclerosis 1
TSC2	Tuberous sclerosis 2
TSHR	Thyroid stimulating hormone receptor
UBR5	Ubiquitin protein ligase E3 component n-recognin 5
VHL	Von Hippel-Lindau tumor suppressor
WHSC1	Wolf-Hirschhorn syndrome candidate 1
WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1
WRN	Werner syndrome, recq helicase-like
WWTR1	WW domain containing transcription regulator 1
ZNF331	Zinc finger protein 331
ZNF384	Zinc finger protein 384
ZNF521	Zinc finger protein 521

Supplementary Table 8. Predicted targets of hsa-miR-181a-5p by TargetMiner

Gene symbol	mRNA ID	Chromosomal location	Aliases	Gene name	Cancer gene
ACAP2	NM_012287	3q29	CENTB2; CNT-B2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	
ACVR1C	NM_145259	2q24.1	ALK7; ACVRLK7	Activin A receptor, type IC	
ACVR2B	NM_001106	3p22	HTX4; ACTRIIB; ActR-IIB	Activin A receptor, type IIB	
ADCY1	NM_021116	7p13-p12	AC1; DFNB44	Adenylate cyclase 1 (brain)	
AFF1	NM_005935	4q21	AF4; PBM1; MLLT2	AF4/FMR2 family, member 1	
AFF2	NM_002025	Xq28	FMR2; MRX2; OX19; FMR2P; FRAXE	AF4/FMR2 family, member 2	
AHCTF1	NM_015446	1q44	ELYS; MST108; TMBS62; MSTP108	AT hook containing transcription factor 1	
AP1G1	NM_001030007	16q23	ADTG; CLAPG1	Adaptor-related protein complex 1, g1 subunit	
ARFGEF2	NM_006420	20q13.13	BIG2; PVNH2; dJ1164I10.1	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	
ARHGAP26	NM_015071	5q31	GRAF; GRAF1; OPHN1L; OPHN1L1	Rho GTPase activating protein 26	
ARHGAP29	NM_004815	1p22.1	PARG1	Rho GTPase activating protein 29	
C2orf69	NM_153689	2q33.1		Chromosome 2 open reading frame 69	
C6orf89	NM_152734	6p21.2	BRAP	Chromosome 6 open reading frame 89	
CALCR	NM_001742	7q21.3	CRT; CTR; CT-R; CTR1	Calcitonin receptor	
CHIC1	NM_001039840	Xq13.2	BRX	Cysteine-rich hydrophobic domain 1	
CREB5	NM_001011666	7p15.1	CRE-BPA	cAMP responsive element binding protein 5	
CREBRF	NM_153607	5q35.1	LRF; C5orf41	CREB3 regulatory factor	
CREBZF	NM_001039618	11q14	ZF; SMILE	CREB/ATF bZIP transcription factor	

CYLD	NM_001042355	16q12.1	EAC; MFT; SBS; TEM; BRSS; CDMT; MFT1; CYLD1; CYLDI; USPL2	Cylindromatosis (turban tumour syndrome)	√
DCLK1	NM_004734	13q13	CL1; DCLK; CLICK1; DCDC3A; DCAMKL1	Doublecortin-like kinase 1	
DCP2	NM_152624	5q22.2	NUDT20	Decapping mRNA 2	
DIO2	NM_000793	14q24.2-q24.3	D2; 5DII; SelY; DIOII; TXDI2	Deiodinase, iodothyronine, type II	
DLGAP2	NM_004745	8p23.3	DAP2; SAPAP2	Discs, large (Drosophila) homolog-associated protein 2	
DNAJC6	NM_014787	1p31.3	DJC6; PARK19	DnaJ (Hsp40) homolog, subfamily C, member 6	
DNAL1	NM_031427	14q24.3	CILD16; C14orf168	Dynein, axonemal, light chain 1	
DSC3	NM_024423	18q12.1	DSC; DSC1; DSC2; DSC4; CDHF3; HT-CP	Desmocollin 3	
EPT1	NM_033505	2p23.3	SELI; SEPI	Ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)	
ETNK1	NM_018638	12p12.1	EKI; EKI1; EKI 1; Nbla10396	Ethanolamine kinase 1	
FNDC3A	NM_014923	13q14.2	HUGO; FNDC3; bA203I16.1; bA203I16.5	Fibronectin type III domain containing 3A	
FOXK1	NM_001037165	7p22.1	FOXK1L	Forkhead box K1	
GABRA4	NM_000809	4p12	-	g-Aminobutyric acid (GABA) A receptor, a4	
GK5	NM_001039547	3q23		Glycerol kinase 5 (putative)	
GPD1L	NM_015141	3p22.3	GPD1-L	Glycerol-3-phosphate dehydrogenase 1-like	
GPD2	NM_000408	2q24.1	GDH2; GPDM; mGPDH	Glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	
IKZF2	NM_016260	2q34	ANF1A2; HELIOS; ZNF1A2; ZNFN1A2	IKAROS family zinc finger 2 (Helios)	
ITGA2	NM_002203	5q11.2	BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2	Integrin, a2 (CD49B, alpha 2 subunit of VLA-2 receptor)	

KCMF1	NM_020122	2	FIGC; PCMF; ZZZ1; DEBT91	Potassium channel modulatory factor 1	
KCNMA1	NM_001014797	10q22.3	SLO; BKTM; SLO1; MaxiK; SAKCA; mSLO1; KCa1.1; SLO-ALPHA; bA205K10.1	Potassium large conductance calcium-activated channel, subfamily M, a member 1	
KDM5A	NM_001042603	12p11	RBP2; RBBP2; RBBP-2	Lysine (K)-specific demethylase 5A	√
KIF3B	NM_004798	20q11.21	FLA8; HH0048; KLP-11	Kinesin family member 3B	
KITLG	NM_000899	12q22	SF; MGF; SCF; FPH2; KL-1; Kitl; SHEP7	KIT ligand	
KLF12	NM_007249	13q22	AP2REP; AP-2rep; HSPC122	Kruppel-like factor 12	
KLHL28	NM_017658	14q21.2	BTBD5	Kelch-like family member 28	
KPNA1	NM_002264	3q21	RCH2; SRP1; IPOA5; NPI-1	Karyopherin alpha 1 (importin alpha 5)	
KRAS	NM_033360	12p12.1	NS; NS3; CFC2; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B	Kirsten rat sarcoma viral oncogene homolog	√
KRBOX4	NM_017776	Xp11.3	ZNF673	KRAB box domain containing 4	
LARP4	NM_052879	12q13.12	PP13296	La ribonucleoprotein domain family, member 4	
LDLRAD4	NM_001003674	18p11.21	C18orf1	Low density lipoprotein receptor class A domain containing 4	
LIFR	NM_002310	5p13-p12	SWS; SJS2; STWS; CD118; LIF-R	Leukemia inhibitory factor receptor-a	√
MAL2	NM_052886	8q23		Mal, T-cell differentiation protein 2 (gene/pseudogene)	
MAPK1IP1L	NM_144578	14q22.3	MISS; C14orf32; c14_5346	Mitogen-activated protein kinase 1 interacting protein 1-like	
MARK1	NM_018650	1	MARK; Par1c; Par-1c	MAP/microtubule affinity-regulating kinase 1	
MFAP3L	NM_001009554	4q32.3	NYD-sp9	Microfibrillar-associated protein 3-like	

MICU3	NM_181723	8p22	EFHA2	Mitochondrial calcium uptake family, member 3	
MKLN1	NM_013255	7q32	TWA2	Muskelin 1, intracellular mediator containing kelch motifs	
MTX3	NM_001010891	5q14.1		Metaxin 3	
NCOA7	NM_181782	6q22.32	ESNA1; TLDC4; ERAP140; NCOA7-AS; Nbla00052; Nbla10993; dJ187J11.3	Nuclear receptor coactivator 7	
NFYB	NM_006166	12q22-q23	HAP3; CBF-A; CBF-B; NF-YB	Nuclear transcription factor Yb	
NUFIP2	NM_020772	17q11.2	PIG1; 82-FIP; FIP-82; 182-FIP	Nuclear fragile X mental retardation protein interacting protein	
PAG1	NM_018440	8q21.13	CBP; PAG	Phosphoprotein membrane anchor with glycosphingolipid microdomains 1	
PALM2	NM_053016	9q31.3	AKAP2	paralemmin 2	
PAPD5	NM_001040284	16q12.1	TRF4-2	PAP associated domain containing 5	
PDE5A	NM_033430	4q27	CN5A; PDE5; CGB-PDE	Phosphodiesterase 5A, cGMP-specific	
PGAP1	NM_024989	2q33.1	Bst1; MRT42; SPG67; ISPD3024	Post-GPI attachment to proteins 1	
PGR	NM_000926	11q22-q23	PR; NR3C3	Progesterone receptor	
PHACTR2	NM_014721	6q24.2	C6orf56	Phosphatase and actin regulator 2	
PHC3	NM_024947	3q26.2	EDR3; HPH3	Polyhomeotic homolog 3	
PHF20L1	NM_016018	8q24.22	CGI-72; TDRD20B	PHD finger protein 20-like 1	
POLI	NM_007195	18q21.1	RAD30B; RAD3OB	Polymerase (DNA directed) iota	
PPP1R3B	NM_024607	8p23.1	GL; PTG; PPP1R4	Protein phosphatase 1, regulatory subunit 3B	
PPP1R9A	NM_017650	7q21.3	NRB1; NRBI; Neurabin-I	Protein phosphatase 1, regulatory subunit 9A	
PRKAA2	NM_006252	1p31	AMPK; AMPK2; PRKAA; AMPKa2	Protein kinase, AMP-activated, a2 catalytic subunit	
PTBP3	NM_005156	9q32	ROD1	Polypyrimidine tract binding protein 3	
PTPRT	NM_007050	20q12-q13	RPTPrho	Protein tyrosine phosphatase, receptor type, T	
PURB	NM_033224	7p13	PURBETA	Purine-rich element binding protein B	
QKI	NM_206853	6q26	QK; Hqk; QK1; QK3; hqkI	QKI, KH domain containing, RNA binding	

RAB3IP	NM_001024647	12q15	RABIN3	RAB3A interacting protein	
RAB3IP	NM_175624	12q15	RABIN3	RAB3A interacting protein	
RIMKLA	NM_173642	1p34.2	NAAGS; FAM80A; NAAGS-II	Ribosomal modification protein rimK-like family member A	
RNF8	NM_003958	6p21.3	hRNF8	Ring finger protein 8, E3 ubiquitin protein ligase	
RPS6KA3	NM_004586	Xp22.2-p22.1	CLS; RSK; HU-3; RSK2; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3	Ribosomal protein S6 kinase, 90 kDa, polypeptide 3	
SCD	NM_005063	10q24.31	SCD1; FADS5; SCDOS; MSTP008	Stearoyl-CoA desaturase (d-9-desaturase)	
SEMA5A	NM_003966	5p15.2	semF; SEMAF	Sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	
SERTAD2	NM_014755	2p14	Sei-2; TRIP-Br2	SERTA domain containing 2	
SLC1A2	NM_004171	11p13-p12	EAAT2; GLT-1	Solute carrier family 1 (glial high affinity glutamate transporter), member 2	
SMAD5	NM_001001419	5q31	DWFC; JV5-1; MADH5	SMAD family member 5	
SMAD7	NM_005904	18q21.1	CRCS3; MADH7; MADH8	SMAD family member 7	
SNX1	NM_003099	15q22.31	VPS5; HsT17379	Sorting nexin 1	
SSX2IP	NM_014021	1p22.3	ADIP	Synovial sarcoma, X breakpoint 2 interacting protein	
ST8SIA3	NM_015879	18q21.31	SIAT8C; ST8SiaIII	ST8 a-N-acetyl-neuraminide a-2,8-sialyltransferase 3	
STK4	NM_006282	20q11.2-q13.2	KRS2; MST1; YSK3; TIIAC	Serine/threonine kinase 4	
TET2	NM_017628	4q24	MDS; KIAA1546	Tet methylcytosine dioxygenase 2	√

THRB	NM_000461	3p24.2	GRTH; PRTH; THR1; ERBA2; NR1A2; THRB1; THRB2; C-ERBA-2; C-ERBA-BETA	Thyroid hormone receptor-b	
TMEM196	NM_152774	7p21.1		Transmembrane protein 196	
TMF1	NM_007114	3p21-p12	TMF; ARA160	TATA element modulatory factor 1	
TNPO1	NM_002270	5q13.2	MIP; TRN; IPO2; MIP1; KPNB2	Transportin 1	
TRIM2	NM_015271	4q31.3	CMT2R; RNF86	Tripartite motif containing 2	
UBTF	NM_014233	17q21.31	UBF; UBF1; UBF2; UBF-1; NOR-90	Upstream binding transcription factor, RNA polymerase	
USP31	NM_020718	16p12.2		Ubiquitin specific peptidase 31	
VPS36	NM_016075	13q14.3	EAP45; C13orf9; CGI-145	Vacuolar protein sorting 36 homolog (*S. cerevisiae*)	
XK	NM_021083	Xp21.1	KX; NA; NAC; X1k; XKR1; MCLDS	X-linked Kx blood group	
XPO4	NM_022459	13q11	exp4	Exportin 4	
XYLT1	NM_022166	16p12.3	XT1; XTI; XT-I; DBQD2; XYLTI; PXYLT1	Xylosyltransferase I	
ZFP14	NM_020917	19q13.12	ZNF531	ZFP14 zinc finger protein	
ZFP62	NM_152283	5q35.3	ZET; ZNF755	ZFP62 zinc finger protein	
ZNF117	NM_015852	7q11.21	HPF9; H-plk	Zinc finger protein 117	
ZNF493	NM_175910	19p12		Zinc finger protein 493	
ZNF781	NM_152605	19q13.12		Zinc finger protein 781	