

**Table S1. Genes differentially expressed among groups (Up-regulated genes)**

Criteria: (i) a p-value < 0.001, (ii) a q-value < 0.001, (iii) fold-change > 1.5

Control V.S. ILTV (EGFP+)				Control V.S. ILTV (APC+)			Control V.S. Conditioned medium (APC+)			
42252	EPS15	NEDD4	STXBP1	42252	HVCN1	SLC22A23	42252	DUSP10	MBL2	SFXN1
42258	ERRF1	NEFL	SULT1E1	AARS	IDH2	SLC24A3	42258	DUSP7	MBNL2	SFXN3
AARS	ETFA	NET1	TAGLN2	ACAD11	IGSF21	SLC25A29	AARS	DZIP1L	MCOLN1	SGK1
ABCC2	ETS2	NOG	TBC1D15	ACAT1	ILK	SLC25A33	ABCA3	ECH1	MEP1B	SHH
ABCD2	ETV5	NR4A2	TCEB3	ACER3	IMP4	SLC2A1	ABCA7	ECHS1	MFGF8	SIK1
ABLM2	EX-FABP	NRBP1	TCP11L2	ACO2	INPP5B	SLC35C2	ABCC2	ECI2	MFSD1	SIRT2
ABR	EXOC8	OAZ1	TDP2	ADD3	JARID2	SLC38A2	ABCC8	ECI2	MGAT5B	SIRT6
ACAA2	F2R	OGCHI	TEAD3	AFAP1	JTB	SLC7A11	ABR	EDA	MGLL	SLC12A5
ACAP3	FADS1	OSGIN1	TEKT4	AFAP1L2	KCTD20	SLC04A1	ABTB1	EDN1	MGP	SLC13A3
ACAT1	FADS6	PAM	TEN1	AGTRAP	KCTD21	SNAI1	ACACB	EEF1D	MGST3	SLC16A3
ACER3	FAM114A2	PATL2	TES	AK1	KIT	SNRPA1	ACAT1	EHF	MICU1	SLC16A5
ACO2	FAM180A	PCDH8	TEX264	AKR1B10	KLF5	SNX14	ACER3	EIF1	MINOS1	SLC1A4
ACOX1	FAM46D	PCMTD1	TFAP2C	ALDH18A1	KLF6	SOCS1	ACO2	EIF4E3	MKRN1	SLC22A23
ADAM28	FAM49A	PCSK5	TFCP2L1	ALDH7A1	KLHDC5	SOD2	ACOX1	EIF5B	MMP9	SLC25A29
ADAMTS1	FBXL5	PCSK6	TMED4	ALDOC	KLHL29	SORL1	ACSL5	ELF3	MOSC2	SLC25A33
ADCK3	FBXO25	PDCD4	TMEM116	AMFR	KLHL6	SPTBN5	ADAMTS1	EMP2	MPP2	SLC2A1
ADD1	FHL3	PDCD6IP	TMEM131	AMZ1	KPNA6	ST5	ADCK3	ENO2	MPP1	SLC35C2
ADD3	FKBP12	PDK3	TMEM180	ANKRD22	LDHA	STX11	ADD1	ENSA	MPST	SLC38A2
AFAP1	FMO4	PDLM1	TMEM59L	ANKRD9	LEPRE1	SULT1E1	ADD3	EPB41L2	MRPS21	SLC4A10
AGTRAP	FNDCA3	PDP1	TNFAIP2	ARHGDI1	LGALS2	SWIP-1	ADH1B	EPHX2	MRV1	SLC6A18
AHCYL2	FOXP2	PELI2	TNFIP6	ASL2	LGMN	TADA1L	AFAP1	EPSTI1	MSC	SLC6A6
AHR	FTH	PEPD	TNFRSF18	ASNS	LHCGR	TAGLN2	AGTRAP	ERO1L	MT-CO1	SLC7A10
AIOLOS	GOS2	PFND2	TNFRSF21	ATF4	LHFPL2	TARS	AK1	ERO1LB	MT-CO3	SLCO4A1
AK7	GADD45	PFKP	TP53INP1	ATP2B2	LMBR1	TBC1D15	AKR1B10	ESRP2	MT-CYB	SMPD1
AKR1B10	GADD45B	PGM1	TPN	ATP5A1	LPAR2	TCEA3	ALDH18A1	ETV5	MTHFD2	SNAI1
ALDH18A1	GAPDH	PHGDH	TRANK1	ATP5B	LPL	TCEB3	ALDH7A1	EX-FABP	MT-ND1	SNX14
ALDH1A1	GAPVD1	PHLDA2	TRAPPC4	ATP5C1	LRRC45	TEAD3	ALDH9A1	EXOC5	MT-ND2	SOAT1
ALDH6	GARNL3	PHOSPHO1	TRIB2	ATP5F1	LRAM1	TEKT4	ALDOC	FABP5	MT-ND3	SORL1
ALDH7A1	GARS	PI4K2A	TSC22D1	ATP5G1	MAFF	TEN1	ALG11	FADS6	MT-ND4	SPATS2L
AMFR	GATM	PIGZ	TSPAN1	ATP5G2	MARVELD3	TEX264	ALX-4	FAHD2A	MT-ND5	SPP2
AMZ1	GDPD5	PIK3AP1	TSPAN6	ATP5G3	MAT1A	TMED4	AMDHD2	FAM188A	MTSS1	ST3GAL1
ANKMY1	GEM	PIM3	TST	ATP5H	MBL2	TMEM138	AMFR	FAM213A	MYC	ST6GALNAC1
ANKRD1	GGA.42010	PKM	TSTA3	ATP6V0B	MDH1	TMEM167B	AMN	FAM3D	MYL12B	STAMBP
ANKRD22	gga-mir-3527	PKP1	TTYH3	AUP1	MDH2	TMEM45B	AMZ1	FAM46A	MYLIP	STXBP1
ANKRD9	GHITM	PLA2G7	TUBB2B	BCAP29	METTL7A	TMEM59L	ANKRD22	FAM49A	NADK	SULT1B1
ANKS4B	GHOX-7	PLAG1	TUBB2B	BCAS1	MGAT5B	TNFRSF18	ANKRD44	FAM54B	NAGA	SULT1E1
ANO10	GLIPR1	PLEKH2	TUBB6	BMP2	MGST3	TPI1	ANKRD9	FAM86A	NAV2	SVIP
APCDD1	GLIPR1L2	PLIN2	TUFT1	C11ORF87	MLL2	TPN	ANKZF1	FBP1	NBEAL2	TADA1L
APLP2	GLRX5	PLIN5	TVB	C12ORF57	MMP1	TRAPPC4	APP	FBXO25	NBL1	TAGLN2
ARHGAP12	GNAI2	PLK2	TXN	C1ORF21	MNAT1	TSC22D1	ARHGDI1	FEM1A	NC4	TBC1D15
ARHGAP40	GNAI2	PLK3	TXNRD1	C2ORF18	MRPL17	TSPAN1	ARRDC3	FEZ1	NDVIP1	TCEA3
ARHGAP7	GOLGB1	PLSCR4	UBB	C3H6ORF72	MRPL9	TSPAN6	ASL2	FHL3	NDRG1	TEAD3
ARID4B	GPR12	PNPLA7	UBE2H	C4	MRPS21	TST	ASNS	FKBP10	NDST3	TEX264
ARRDC3	GPR177	PNRC1	UBQLN1	C8ORF22	MTCH2	UBB	ATF4	FMO4	NDUFS1	TM9SF4
ASB14	GPRC5A	PPA1	UCH-L1	CARS2	MTHFD2	UBE2H	ATG13	FMO6P	NDUFS3	TMCO3
ASCC1	GPS1	PPARG	UCK2	CCBP2	MT-ND3	UBXN2B	ATP5A1	FOS	NDUFS4	TMEM116
ASL2	GPX4	PPARGC1A	UHMK1	CCDC109B	MUC13	UCH-L1	ATP5B	FTH	NDUFS7	TMEM159
ASNS	GSS	PPFIA1	ULK2	CDA	MUDENG	UHMK1	ATP5G1	FTSJD1	NDUFS8	TMEM161A
ATP5A1	GSTO1	PPM1J	UQCRC1	CDHR1	NDRG1	UQCRC1	ATP5G2	FURIN	NELFE	TMEM188
ATP5G1	GUSB	PPP1R15B	UROD	CHEPB	NDUFA9	UQCRC2	ATP6	GOS2	NFIL3	TMEM38B
ATP5H	HADHA	PRDX6	USP49	CERCAM	NDUFS2	UQCRCQ	BACH2	GADD45B	NFYC	TMEM59L
ATP6V0D2	HBP1	PRELID1	WARS	CGN	NDUFS3	UROD	BAIAP2L1	GAL10	NIPAL1	TMEM72
BACH2	HDAC1	PRKAG2	WDR1	CHAC1	NDUFS4	USP49	BCAP29	GAPDH	NOVA1	TMEM82
BAIAP2L1	HDAC7	PROK2	WNT11	CHCHD2	NDUFS7	VGLL2	BF1	GAREM	NPC2	TNFAIP2
BBS2	HERPUD1	PSAP	WNT7B	CHNTHL1	NDUFS8	VRTN	BFIV21	GARS	NPL	TNFIP6
BCAP29	HEXA	PSMB7	XG	CHTL1A	NEDD4L	WARS	BID	GATA2	NQO1	TNFRSF18
BCAS1	HIF1A	PSMC1	YARS	CIB1	NEFL	WDR1	BSG	GBE1	NUMA1	TNFSF11
BCR	HMBS	PSPH	YIPF1	CISD2	NFYC	YARS	C11ORF82	GC	OAZ1	TNS3
BMP2	HMGCS1	PTAFR	ZFYVE28	CISD3	NPC2	YIPF1	C11ORF87	GCC2	OCC-1	TOB2
C11ORF24	HMOX1	PTGES	ZMAT4	CLCN2	NPL	ZNF503	C12H3ORF37	GCHFR	OGCHI	TPN
C11ORF87	HN1	PTGS2	ZNF503	CLDN1	NUBP1		C16ORF57	GFR3	OLFML2A	TRAK1
C12H3ORF37	HPS3	PTTG1IP	ZNF516	CLDN10	OAZ1		C1H11ORF67	GGA.40537	OSGIN1	TRANK1
C12ORF57	HSCB	PYCR2		CNN2	OGCHI		C1ORF21	GGA.42010	OTUD1	TRAPPC4
C14ORF79	HSD17B7	PYGB		COL23A1	OLFML2A		C2Oorf194	gga-mir-3527	PACS2	TRIB2
C1H21ORF91	HSP70	PYGL		COL6A2	OSGIN1		C2ORF18	gga-mir-6599	PAFAH2	TRIP11
C1ORF21	HSP90AA1	QARS		COMMD10	PAM16		C3D	GGT1	PANK1	TSC22D1
C20H20ORF111	HSPA5	QSOX1		COMMD4	PANX2		C3H6ORF72	GNAL	PCCB	TSG101
C20ORF23	HSPB8	RAB11FIP4		COMMD5	PCDH8		C4	GNB2L1	PCMTD1	TSPAN1
C2ORF18	HVCN1	RAB19		COQ9	PCMTD1		C8ORF22	GOLGB1	PCSK5	TSPAN2
C3H6ORF174	HYPK	RAB31		COX5A	PCSK6		C8ORF4	GOT1	PCSK6	TSPAN6
C3H6ORF72	ID2	RAB32		COX6A1	PDCD4		CA2	GPR12	PDCD4	TST
C4	IFNGR2	RAB33B		CPEB2	PDZK1P1		CACFD1	GPR177	PDCD6IP	TTC26
C4ORF34	IFRD1	RAB37		CREM	PFKP		CACNA1D	GPRC5A	PDHB	TTC3
C8ORF22	IGSF21	RAI14		CRHOB	PGM1		CACNA2D2	GPS1	PDIA3	TTYH3

CA2	IL4I1	RARB		CS	PHB		CALHM2	GPX4	PK3	UBB
CASP3	IL4R	RASD1		CSRP1	PHGDH		CAMKK2	GSS	PEMT	UBE2H
CCT7	ILK	RASSF3		CSTF1	PHLDA2		CANT1	GSTO1	PEPD	UGCG
CD200	INF2	RBPJ		CTH	PHLPP1		CARS	GSTDC2	PFKP	UQCRC1
CD47	IRF1	RCBTB2		CTSB	PHOSPHO1		CCBP2	GTF2H4	PGM1	UQCRC2
CDH1	ITM2B	RFLB		CX3CL1	PIGZ		CCPG1	GUCY2C	PGM3	UROD
CDH3	JARID2	RHOG		CYB5D2	PIK3AP1		CD200	GUSB	PHGDH	USP40
CEBPB	JSC	RICTOR		CYR61	PIM3		CD47	H3-IX	PHLDA2	UTRN
CGN	JUP	RIN2		DACT2	PLCG2		CD81	HACL1	PHLPP1	VAMP7
CHAC1	KANSL1	RLF		DCTN2	PLCZ1		CDA	HADHA	PHOSPHO1	VMP1
CHCHD2	KCTD20	RNF139		DGCR6	PLEKHA5		CDH1	HARBI1	PHTF2	VPS54
CHTL1A	KCTD21	RORB		DHRXS	PLEKHB2		CDH3	HDAC1	PI4K2A	WARS
CIAPIN1	KERA	RP2		DLGAP2	PLIN5		CDS2	HEG1	PIGZ	WDFY1
CIDEC	KHDRBS3	RPB6		DNPEP	PLK2		CEBPB	HES1	PIK3AP1	WDR1
CLCN3	KIAA0040	RPL24		DOHH	PLSCR4		CERCAM	HIF1AN	PIK3P1	XPR1
CLDN1	KIAA1199	RPL27		DOK5	PNRC1		CGN	HMG20B	PIM3	YARS
CLDN10	KIF13B	RPL35		DSTN	POLH		CHAC1	HOPX	PLCG2	YIPF1
CLINT1	KIFAP3	RPL6		DUSP1	PPA1		CHCHD2	HPGDS	PLEKHA5	ZBTB20
CNN2	KIT	RPLP0		DUSP7	PPARG		CHD2	HPX	PLEKHB2	ZFYVE28
CNTF	KLF1	RPS12		ECHS1	PPARGC1A		CHNTHL1	HSCB	PLK2	ZNF217
COG7	KLF5	RPS15		ECI1	PPIB		CHTL1A	HSD17B11	PNRC1	ZNF503
COL27A1	KLF6	RPS17		EDA	PPIE		CIB1	HSP70	PPA1	ZWILCH
COMMD5	KLHDC5	RPS2		EDEM1	PPP1R15B		CISD2	HSPA9	PPARGC1A	
COQ9	KLHL25	RPS21		EDN1	PRDX6		CISD3	HTATIP2	PPM1J	
CORO1C	LAMA1	RPS3		EHF	PROC		CLCN3	HVCN1	PPP1R15B	
COX6C	LAPTM4B	RPS4		EIF3I	PRPF18		CLDN1	IDH2	PPP1R1B	
CREB5	LASS4	RPSA		EIF5B	PSMB7		CLDN10	IDUA	PROC	
CREM	LCP1	RUNX3		ENPP1	PTTG1IP		CNN2	IFI35	PRPF18	
CRHOB	LDHA	RUSC2		EPHA2	PYCR2		CNTNAP1	IFNGR2	PRPSAP2	
CS	LGALS2	S100A11		EPHX2	PYGB		COG4	IGFBP1	PSAP	
CSRP1	LGALS3	SARS		ERO1L	PYGL		COL24A1	IGSF21	PSPH	
CSRP1	LHCGR	SAT1		F2R	QARS		COL27A1	IL21R	PTGES	
CSTF1	LHFPL2	SCPEP1		FADS6	QPCTL		COL6A2	ILK	PTRH2	
CTH	LIMA1	SDC1		FAHD2A	QSOX1		COMMD5	IMPA2	PTTG1IP	
CTNNA1	LMBR1	SDHA		FAM188A	RAB31		COQ9	INPP5B	PYCR2	
CTSB	LMX1A	SDPR		FAM211A	RABEPK		COX5A	IP6K2	PYGB	
CX3CL1	LPAR2	SECISBP2L		FAM213A	RASD1		COX6A1	IQGAP2	PYGL	
CX3CR1	LPIN1	SELS		FAM214A	RASSF3		CPEB2	ISX	QARS	
CXCR4	LPL	SERPINA5		FAM46A	RCBTB2		CPNE2	ITM2B	QSOX1	
CYP2D6	LRCH2	SFRP2		FAM86A	RFC5		CRHOB	IVNS1ABP	RAB20	
CYR61	LRRRC8D	SFXN1		FBXO48	RGS8		CRIP2	JARID2	RAMP2	
CYSLTR1	MADH2	SGK1		FEZ1	RHOC		CRYM	JSC	RARB	
CYTH1	MAFA	SH3BGRL		FGFR2	RHOG		CS	JTB	RASSF3	
DACT2	MAFF	SH3BP5		FHL3	RIN2		CSNK1D	JUN	RASSF9	
DDB1	MAP1B	SHH		FMO6P	RPB6		CSPG5	JUP	RPB5	
DDO	MARVELD3	SIK1		FOS	RPE		CSRP1	KCNMB4	RETSAT	
DENND5A	MAT1A	SIPA1L2		FRAS1	RPL13		CSRP1	KCTD21	RFC5	
DESI1	MFGE8	SIRT2		FTH	RPL15		CTH	KDM4C	RGS1	
DGCR14	MGAT5B	SIRT6		GOS2	RPL23A		CTSB	KIFC3	RGS2	
DGKH	MGLL	SLC12A5		GABRG1	RPL3		CTSC	KIT	RHOG	
DNAAF1	MGST3	SLC16A3		GABRP	RPL36		CTSD	KLF5	RICTOR	
DNAJA1	MIEN1	SLC16A5		GADD45B	RPL7A		CTSL2	KLF6	RLBP1	
DNPEP	MINOS1	SLC25A29		GAPDH	RPL8		CXCL12	KLHDC5	RNF185	
DOHH	MIOS	SLC2A1		GC	RPLP0		CYB5R3	KLHL24	RNF34	
DOK5	MKRN1	SLC38A2		GCHFR	RPS17		CYP27A1	KLHL3	RPL3	
DSC2	MMP9	SLC43A2		GCK	RPS21		CYP2D6	KTN1	RPLP0	
DSCR3	MPP6	SLC44A1		GGA.42010	RPS23		CYP3A4	LAMB3	RPS17	
DSE	MRPS21	SLC6A19		gga-mir-3527	RPS4		CYP3A7	LAMC1	RPS4	
DSG2	MRV1	SLC7A11		gga-mir-6599	RPS6		CYP4V2	LCP1	RPSA	
DSP	MTHFD2	SLC9A3R1		GGT1	SARS		CYR61	LDHA	RUSC2	
DUSP1	MT-ND3	SLCO4A1		GNB2L1	SAT1		CYTH1	LGALS2	SARDH	
DUSP10	MXD4	SMOX		GOT1	SCPEP1		DACT2	LGALS3	SARS	
DUSP7	MYC	SNAI1		GPR78	SDC4		DAD1	LGMN	SAT1	
ECI1	MYH9	SNF8		GPRC5A	SDHC		DDA1	LHFP	SCLY	
EDA	MYO1C	SNRPB		GPX4	SDOS		DDB2	LHPP	SCP2	
EDEM1	NADK	SNX2		GSS	SELS		DERL3	LIMD2	SCPEP1	
EDN1	NARS	SPAG1		GSTO1	SERPINF1		DESI1	LMBR1	SCRN2	
EEPDI	NAV2	SPON2		GUSB	SFXN1		DGCR6	LMX1A	SDC1	
EGLN3	NBL1	SPTAN1		HADHA	SFXN3		DGKH	LPAR2	SECISBP2L	
EIF4E3	NCF4	SPTBN5		HARBI1	SGK1		DHRXS	LPL	SELS	
EIF5B	NDRG1	SPTY2D1		HOMER2	SHH		DIS3L2	LRRRC45	SELT	
ELF5	NDUFA9	ST14		HPGDS	SIK1		DNAJB8	LTF	SEMA4B	
ELK3	NDUFS1	ST5		HPX	SIRT2		DOHH	MAFF	SEMA5A	
ENO1	NDUFS3	STARD5		HSCB	SIRT6		DOK5	MAPK8	SESN1	
ENPP1	NDUFS7	STIM2		HSD17B11	SLC16A5		DSE	MARVELD3	SFRP2	
EPHA2	NDUFS8	STK38L		HSP70	SLC17A5		DUSP1	MAT1A	SFT2D1	

**Table S1. Genes differentially expressed among groups (Down-regulated genes)**

Criteria: (i) a p-value < 0.001, (ii) a q-value < 0.001, (iii) fold-change > 1.5

Control V.S. ILTV (EGFP+)			Control V.S. ILTV (APC+)		Control V.S. Conditioned medium (APC+)				
ABCF2	HMGB2	REV3L	AACS	NUDCD1	42253	EIF2S1	MDN1	RPL7L1	YWHAQ
ACTR6	HMGN1	RFC1	ABCC1	NUP107	AAED1	EIF2S2	MED10	RPRD2	ZC3H13
ADI1	HMGN2	RFC3	ABCF2	NUP153	ABCB11	EIF3A	MEIS2	RRM1	ZC3H15
AGA	HNF1A	RFWD2	ACTR6	NUP50	ABCE1	EIF3B	METAP2	RRM2	ZCCHC17
AGPAT6	HNF4BETA	RIF1	ALAS1	ORC5L	ABCF2	EIF3J	MFAP3	RRP15	ZNF207
ALAS1	HNF4G	RIOK1	ALDH8A1	OSGIN2	ACAT2	EIF3M	MKI67	RRP1B	ZNF318
ALDH8A1	HNRNPLL	RNASEN	ALG6	OTUD6B	ACL	EIF4A2	MKI67IP	RSL1D1	ZNF326
ALG6	HNRNPU	RNF7	ANKHD1	PAPD7	ACTL6A	EIF4E	MOBK13	RSPH6A	ZNF407
AMIGO2	HNRPLD	ROCK1	ANLN	PAXBP1	ACTR3B	EIF4G1	MPHOSPH10	RSRC2	ZNF451
ANLN	HRG	RORA	ANP32B	PCF11	ACTR6	EIF4G2	MPHOSPH6	RTCA	ZNF598
ANP32B	HRH2	RPA2	APLP2	PEX1	ADI1	EIF5	MRPL3	RTF1	ZRANB2
AP1G1	HSPA14	RPRD1B	APOB	PHRF1	AHSA1	EIF5A2	MRPS27	RWDD1	
APITD1	IL28RA	RRAGC	AQR	PIT 54	AIMP1	ELAVL1	MRPS30	SALL3	
APOB	INCENP	RRM2	ARL5A	PITPNM3	AIMP2	ELP2	MRPS31	SAP130	
AQR	INTS10	RSPH6A	ARMC8	PLG	AKAP1	EMG1	MRPS35	SAR1B	
ARGLU1	IPO9	RSRC2	ARPP21	PMPCA	ALAS1	ERGIC2	MRPS5	SASS6	
ARHGAP11A	ISCU	RTCA	ATN1	PNN	ALDH8A1	ERRF1	MSH2	SBF1	
ARHGAP5	ITIH2	RTTN	ATP6AP1L	PNRC2	AMD1	ESF1	MTAP	SC4MOL	
ARHGEF11	JAG2	SAFB2	ATRX	PIIP5K2	ANAPC1	ESYT2	MYB	SDAD1	
ARLSA	JMJD1C	SAMSN1	B4GALT6	PPP2R2C	ANP32B	ETF1	MYBBP1A	SEC31A	
ASF1A	JPH1	SAP130	BMS1	PPP4R2	ANXA5	EXOSC2	MYBL2	SEC63	
ASPM	KAT6A	SAR1B	BRD4	PPRC1	APITD1	EXOSC7	NAA15	SERBP1	
ATN1	KCTD9	SASS6	BXDC2	PRCC	AQR	EZH2	NAA25	SERPINA1	
ATP6AP1L	KDELRL2	SBD5	C12ORF66	PRPF40A	ARFGAP3	FADS2	NAP1L4	SERPINB1	
ATRX	KIF11	SCML2	C17ORF71	PRPF4B	ARHGAP17	FAM120A	NASP	SET	
B3GNT2	KIF15	SDAD1	C21H1orf158	PRRC2C	ARHGAP5	FAM171A1	NAT10	SF3B3	
BAMBI	KIF18A	SEC31A	CAPRIN1	PSIP1	ARHGEF12	FAM35A	NCBP1	SFPQ	
BAZ1B	KIF18B	SEPX1	CCAR1	PSME3	ARID1B	FAM44B	NCDN	SFR1	
BCOR	KIF4A	SERPINA1	CCDC59	PSPC1	ARID5B	FARSB	NCL	SIKE1	
BET1L	KNG1	SERPINH1	CCDC99	PTGFRN	ARL13B	FAT1	NCOA4	SIRT1	
BLMH	KPNA2	SFPQ	CCNB2	PTPRG	ARMC8	FBXO30	NDC1	SKA3	
BMI1	KPNB1	SH3D19	CCNJ	PWP1	ARVCF	FBXW11	NENF	SKIV2L2	
BMS1	LAMP5	SIRT4	CD164	PWP2	ASF1A	FCF1	NFIB	SKP2	
BPIFB8	LARGE	SKA3	CDC45	RALGAPA1	ASUN	FECH	NHP2L1	SLBP	
BRC1A	LASS6	SLC23A1	CENPF	RANGAP1	ATN1	FEN1	NLE1	SLC18A2	
BUB1	LCAT	SLC5A12	CENPF	RBBP4	ATP6AP1L	FETUB	NMNAT1	SLC22A18	
BXDC2	LIFR	SLC6A9	CENPL	RIF1	ATRX	FGA	NOL6	SLC23A1	
C16ORF88	LMNB2	SLTM	CENPT	RIMBP2	BASP1	FGB	NOL9	SLC27A5	
C18ORF21	LRP2	SMARCA5	CEP152	ROCK1	BAZ1A	FGF23	NOLC1	SLC35E3	
C19ORF12	LRRC46	SMC2	CHAF1A	RORA	BLMH	FGFR10P2	NOM1	SMARCA5	
C1orf112	LRRCC1	SMC3	CHAF1B	RPRD2	BLOC1S5	FGFR4	NOP56	SMC2	
C1QTNF6	LUC7L2	SMC4	CHERP	RSRC2	BMS1	FKBP4	NOP58	SMC3	
C21H1orf158	LUC7L3	SMC6	CKAP2	RTCA	BRD2	FN1	NPM1	SMC4	
C2orf44	LYAR	SMEK1	CLASP1	RTF1	BUB1	FRYL	NPM3	SMC6	
C4ORF43	MAK16	SOS1	CLDN2	SALL3	BXDC2	FSIP1	NSD1	SNRPB2	
C5H15orf41	MASP1	SPC25	CREBBP	SAP130	C17ORF71	GABPA	NT5C3	SOS1	
CABLES1	MAST2	SRD5A3	CRKL	SATB2	C17orf75	GAMT	NT5C3L	SPC25	
CAPRIN1	MATR3	SREK1	CTBP1	SCAPER	C18ORF21	GAS2	NUBP2	SPTSSA	
CCDC14	MBNL1	SRRM1	CTCF	SCD	C20H20ORF24	GCLM	NUCKS1	SREK1	
CCDC27	MCM3	SRSF3	CTNS	SEC23A	C22ORF32	GCN1L1	NUDC	SRP19	
CCDC47	MDN1	SRSF6	CUL4B	SEC24A	C4ORF43	GCSH	NUDCD1	SRSF11	
CCDC50	MEIS2	SRSF7	CYB5A	SEC31A	C5H15ORF29	GEMIN2	NUDT1	SRSF3	
CCDC66	MELK	SS18	CYP2C45	SEMA6A	CALM	GEMIN5	NUP107	SRSF6	
CCDC99	MF12	SSB	CYP51A1	SERPINH1	CAMSAP1	GGA.42833	NUP43	SRSF7	
CCNA2	MKI67	SSR1	DBX2	SETD4	CAPRIN1	GGA.4927	NUP50	SS18	
CDC23	MMRN2	STAG2	DCTD	SFPQ	CAV1	GJB1	NUPL1	SSB	
CDC45	MMS22L	STRN3	DDX19B	SGOL2	CCAR1	GLT1D1	NUPL2	SSR1	
CDHR5	MOC52	SULT1C	DDX24	SLBP	CCDC104	GMNN	ODC1	SSRP1	
CENPE	MPHOSPH10	SUMO2	DDX3X	SLC18A1	CCDC50	GNB1L	OLA1	ST13	
CENPF	MSH6	SUPV3L1	DDX46	SLC22A16	CCDC59	GNL2	OLFM3	STAG2	
CENPF	MTMR8	SURF6	DDX47	SLC23A1	CCDC66	GNL3	OPA1	STRN3	
CENPI	MYB	SVIL	DLGAP5	SLC38A9	CCDC88A	GPD1	ORC5L	SUDS3	
CENPJ	MYBL2	SYNCRIP	DNAJC2	SMC2	CCDC88C	GPN3	OTOP1	SUGT1	
CENPP	MYO1B	SYNE1	DUT	SMC4	CCNA2	GPR143	OTUD6B	SUMO2	
CEP152	MZT1	TAF15	EGLN1	SMC6	CCNH	GPSM2	OTUD7A	SUPV3L1	
CEP290	NASP	TBC1D5	EIF3A	SMEK1	CCNYL1	GSE1	PAPD7	SURF6	
CHAF1B	NAT10	TBX2	EIF4G1	SNAP47	CCT2	GSTA3	PAPOLA	SVIL	
CHAMP1	NCF1	TBX3	EIF5	SPATA17	CCT5	GTF2F2	PARP1	SYNCRIP	
CHD9	NCL	TDRD15	EP400NL	SPC25	CCT6	GTPBP4	PCBD1	SYNE1	
CHDH	NCOA4	TEX10	ERCC5	SPEN	CD164	GTSE1	PCGF5	TAF15	
CHORDC1	NDC80	TFDP1	ERP29	SRRM1	CD276	H2AFZ	PCNA	TAK3	
CHRA1	NEK2	THOC2	ESF1	SRSF11	CDC2	HAAO	PDCD11	TBC1D5	
CHTF8	NFIB	TINAG	ESYT2	SRSF6	CDC20	HDAC2	PDCD5	TBL1X	
CKAP2	NIF3L1	TLE1	ETF1	SSB	CDC40	HDX	PEO1	TBX2	

CLDN2	NIPA2	TLK2	FADS2	SSR1	CDCA7	HERC1	PFN2	TCEANC	
CLSPN	NLE1	TMED5	FAM164C	STAG2	CDK5RAP2	HMG1	PHF3	TCERG1	
CMTM8	NOC3L	TMEM115	FAXC	STRN3	CDV3	HMGB1	PHF6	TCP1	
CNBP	NOL9	TMEM123	FBRSL1	SYNCRIP	CENPE	HMGN1	PHRF1	TDRD3	
CNI	NOLC1	TMEM167A	FBXO11	SYNE1	CENPH	HMGN2	PIT 54	TERF1	
COBLL1	NOM1	TMEM55A	FECH	TEX10	CENPK	HNF1A	PITPNB	TEX10	
CPSF4	NOP14	TMX3	FETUB	THBS1	CENPL	HNF4G	PITPNM3	TFAM	
CREB3L3	NOP56	TNIP2	FGA	TMEM161B	CENPW	HNRNPA3	PITRM1	TFDP1	
CREBBP	NOP58	TNNC1	FGB	TMPO	CEP89	HNRNPAB	PITX3	TFDP2	
CTBP1	NPM1	TOP2A	FN1	TMPRSS2	CHAF1A	HNRNPH1	PLG	TGS1	
CYP2C45	NSD1	TOP2B	FRYL	TMX3	CHAF1B	HNRNPH3	PLTP	THBS1	
CYP2D7P1	NT5C3	TOX2	GNL2	TNNC1	CHD4	HNRNPLL	PMPCA	THUMPD1	
CYP2H1	NUCB2	TPX2	GPR143	TNRC15	CHD7	HNRNPM	PNN	TIMM44	
CYP2R1	NUCKS1	TRA2A	GPR144	TOP2A	CHD9	HNRNPR	PNP	TLK2	
CZH5ORF42	NUDC	TRAI	GPR162	TOP2B	CHDH	HNRNPU	PNRC2	TLN1	
CZH9ORF41	NUDCD1	TRAM1	GTPBP4	TRA2A	CHDZ	HNRPD1	PODN	TMEM115	
DCTD	NUDT19	TRIP13	GTSE1	TRAM1	CHERP	HS3ST1	PPID	TMEM183B	
DDX11	NUF2	TRRAP	HAAO	TRMT1L	CHORDC1	HS3ST2	PPIG	TMEM70	
DDX49	NUP153	TTC27	HEATR1	TRRAP	CHPT1	HS6ST1	PPP2R2C	TMPO	
DEK	NUP210	TTL7	HENMT1	TTBK1	CHTF8	HSF2	PPRC1	TMPRSS2	
DEPDC1B	NUSAP1	TTR	HMGN2	TTC27	CIRBP	HSP90AB1	PRCC	TMX3	
DHR53	OLA1	TUBB	HNF1A	UMPS	CIRH1A	HSP90B1	PREP	TNNC1	
DHR57B	OLFM3	TXNL1	HNRNPLL	USP16	CKAP2	HSPA14	PRMT3	TOP2B	
DICER1	ORC5L	TYMS	HNRNPU	USP9X	CLASP2	HSPA4	PROX1	TOX2	
DKC1	PAH	UBLCP1	HSPA14	VBP1	CLDN2	HSPA4L	PRPF38B	TPRKB	
DLGAP5	PAPD5	UPF1	HSPA4L	WDR3	CLSPN	HSPE1	PRPF40A	TRA2A	
DNAJC2	PCBD1	UPF2	IKBIP	WDR36	CMTM8	HSPH1	PRPF4B	TRAM1	
DRD1	PCF11	USP16	IL2RB	XPO1	CNBP	IGF2BP3	PRPF8	TRIM37	
DSCC1	PCNT	USP22	INCENP	XPO5	CNOT2	IL23R	PRRC2C	TRIP13	
DUT	PDCD11	USP9X	IPO7	XPO7	COL4A5	IMPAD1	PSAT1	TRMT1L	
DZIP1	PK4	VAV3	ITGB8	YWHAQ	COPS3	INCENP	PSIP1	TRNAU1AP	
ECD	PER2	VDAC3	IVD	ZC3H13	COP55	IPO9	PSMA6	TRRAP	
EIF1AY	PFKFB3	WDR12	JAG2	ZNF326	CPSF4	IVD	PSMD5	TSR1	
EIF3A	PHC2	WDR3	JAK1	ZNF598	CPSF6	JAG2	PSME3	TTC27	
EIF4E	PIT 54	XRCC3	KCNQ1	ZRANB2	CREBBP	KCTD9	PSPC1	TTC39A	
EIF5	PITPNM3	XRCC5	KIF11		CSE1L	KDEL2	PTCH2	TTF1	
ERP29	PKP2	YWHAQ	KIF15		CTBP1	KIAA0020	PTGFRN	TTK	
ESF1	PLG	YWHAQ	KIF1B		CWC22	KIAA1468	PTP4A2	TTPA	
EXO1	PLXNB2	ZC2HC1A	KNG1		CYP2C45	KIF11	PTPLB	TTR	
FAM103A1	PMPCA	ZC3H13	KPNA3		CYP2H1	KIF15	PUS1	TWISTNB	
FAM120A	PNN	ZC3H6	LCA5L		CYP2R1	KIF18B	PUS7	TXNL1	
FAM13B	PNP	ZNF318	LMNB2		CYP51A1	KIF24	PWP1	TYMS	
FAM35A	PNRC2	ZNF395	LUC7L3		DBR1	KIF2C	PWP2	U2AF1	
FAM44B	POLE3	ZNF407	LYAR		DBX2	KIF4A	QDPR	UBE2D3	
FAR5B	POP1	ZNF451	MARK3		DCTD	KIF5B	QSER1	UBE21	
FETUB	PPIG	ZNF598	MATR3		DCUN1D1	KPNA3	RABEP1	UBE2L3	
FGB	PPP1R8	ZNF6	MBNL1		DDX10	KPNA4	RABGGTB	UBE2V1	
FGFR1OP2	PPRC1	ZNF644	MCM6		DDX11	KPNB1	RAE1	UBE4B	
FGFR3	PRCC	ZRANB2	MED1		DDX18	KRT18	RAN	UBQLN1	
FN1	PREP		METTL23		DDX19B	LAMA2	RANBP1	UCHL3	
FN3K	PRMT3		MIPOL1		DDX24	LARGE	RANGAP1	UCHL5	
FRK	PROX1		MKI67		DDX3X	LARP1	RAP1B	UMPS	
FRMD4B	PRPF40A		MPHOSPH10		DDX46	LARP7	RBBP4	UPF1	
FSTL4	PRPF4B		MST4		DDX47	LIFR	RBM12B	USP14	
FUBP1	PRRC2C		MYB		DHFR	LMBRD1	RBM19	USP22	
FZD3	PSIP1		MYBBP1A		DHODH	LMNB2	RBM25	USP30	
GAMT	PSMC3IP		MYBL2		DIMT1	LMO7	RBM26	USP36	
GAS2	PSMD5		MYO1B		DIO1	LPHN2	RBM45	USP7	
GCN1L1	PTCD3		MYO3B		DKC1	LRRFIP2	RBM46	USP8	
GGA.42833	PTGES2		NAA15		DLGAP5	LSM12	RBMX	USP9X	
GLULD1	PTP4A1		NAA25		DNAJC2	LSM6	RDX	UTP6	
GMNN	PTPN14		NAPEPLD		DNAJC8	LSM7	REEP2	VBP1	
GNB1L	PUS7		NASP		DNTTIP2	LUC7L2	RFC2	VDAC3	
GPATCH1	PWP1		NCL		DSCC1	LUC7L3	RG9MTD1	VPS36	
GPD1	PWP2		NCOA4		DSCR2	LY96	RHOBTB1	WDR11	
GPR143	PXDC1		NENF		DUT	LYAR	RIF1	WDR12	
GPR64	PXMP3		NFIB		EAF2	MAK16	RIOK1	WDR3	
GRHL3	QDPR		NLE1		EBNA1BP2	MANF	RIOK2	WDR43	
GSTZ1	RABEP1		NOL6		ECD	MAOA	RNF7	WDR91	
GTPBP4	RAD51B		NOLC1		EDNRA	MAPK6	ROCK1	WWC3	
H2AFZ	RAN		NR3C1		EED	MARK3	RORA	XPA	
HAAO	RBL1		NSD1		EEF1A	MATR3	RPA2	XPO1	
HECA	RBM25		NSF		EGLN1	MBNL1	RPA3	XPO5	
HHEX	RBM26		NT5C3		EIF1AY	MCM2	RPAP3	XRCC5	
HIPK2	RP4		NUCKS1		EIF2AK1	MCM6	RPF1	XRN2	
HMG1	RC3H2		NUDC		EIF2B2	MCTS1	RPF2	YAF2	