

Supplemental Table S7

CUT&RUN + aDEGs + bDEGs	CUT&RUN + aDEGs	CUT&RUN + bDEGs
ACLY	AAED1	ABCC8
ADAMTS2	ABCB10	ANXA4
ADAMTSL2	ABCG1	APP
ALDH1A1	ABCG2	CACNA2D1
APCDD1L	ABHD15	CAPN13
BAIAP3	ACAA2	CASR
CACNA1A	ACER2	CD9
CACNA1C	ACHE	CDON
CAPN2	ADCY2	CHDH
CCNY	AEN	COL9A2
CLCN4	AFAP1	CTGF
CNTN1	AGFG2	CXCR4
CPD	AGT	DCTN1
CTSE	AHI1	DDX60
DDX58	AHSA1	DNM3
DNAJC6	AK2	DUSP2
DSP	ALDH1A3	ESYT1
EIF4EBP2	ALDH1B1	FOS
HSPH1	ALDH4A1	FTCD
IDS	ALDH6A1	GCK
ISG15	ALDH7A1	GPRIN1
KCNA5	ALDOB	HDAC6
KCTD12	ANAPC15	HILPDA
KLHDC8A	ANK1	IFITM3
MAN1A1	ANKRD36C	IGSF1
MAP1A	ANKRD37	IL17RB
MMRN1	APLP2	LAMP3
MX1	APOBEC2	LRP5
NCAM1	APOH	NACAD
NFASC	APOL6	NCKAP5
NFIC	APOLD1	NEO1
PARP12	ARF1	OLFM4
PHLDA3	ARHGAP1	PCSK9
PROS1	ARHGEF9	PFKP
PRSS23	ARL4C	RAB15
PSME2	ARRDC4	ROBO1
PTPRN2	ASPH	ROR1
RAP1GAP2	ASXL3	RSAD2
RBCK1	ATF3	SERPINA3
RFX6	ATP2B1	SEZ6
RPS27L	ATP5G2	SLC16A2

SEZ6L	ATP6V1B2	SLC34A2
SLC30A8	ATP8A1	SLC7A14
SLC5A1	AZI2	SLIT1
STAT1	B4GALT5	SOX9
SUN1	BAG3	SPP1
TMEM132B	BAMBI	SRC
TMEM132D	BCAP29	STAT6
TMEM64	BIRC3	SYNPO
USP25	BMP3	TACSTD2
VIM	BRD7	TINAGL1
WFS1	BTG1	USP18
	BTG2	VCAM1
	BTG3	WNT9A
	C15orf48	
	C1orf21	
	C1orf43	
	C21orf91	
	C2orf70	
	C3orf80	
	C5orf15	
	C6orf106	
	C6orf120	
	C7orf73	
	C8B	
	CACNA2D2	
	CACNB2	
	CADPS	
	CALCOCO2	
	CALY	
	CAMK2G	
	CASP3	
	CASP7	
	CBFB	
	CCDC141	
	CCDC85C	
	CD14	
	CD164	
	CD55	
	CDC6	
	CDCP1	
	CDH1	
	CDH2	
	CDIPT	

CDKN1A
CEBPD
CELSR2
CES2
CETN2
CHGA
CHKA
CIB1
CITED4
CLCN5
CLDN7
CLTA
CLTB
CMTM6
CNIH2
COBL
COMT
COPS7A
COX11
CPA4
CPE
CPM
CPSF6
CRB1
CREB3L2
CRIM1
CRIP2
CRTAC1
CSRNP3
CTNND2
CTSB
CTSO
CXCL1
CXorf57
CYP4F3
CYP4V2
CYS1
CYSTM1
DDB2
DDX24
DENND2D
DERL1
DHRS2

DIP2C
DLC1
DNAH7
DPP6
DPY19L1
DSCAML1
DST
DUSP1
DYNLT1
DZIP3
E2F7
ECI2
EDIL3
EFR3A
EGFL7
EI24
EIF2B2
EIF4B
ELL2
ELN
ELOVL4
EMC10
ENPP1
ENPP4
EPCAM
EPG5
EPHX2
ERAP1
ERRFI1
EVA1A
EXTL3
F13A1
F2
F3
FAM101A
FAM110C
FAM163A
FAM210A
FAM213A
FAM21A
FAM46A
FAM46C
FAM84B

FAS
FAT1
FAT3
FBLN2
FBN1
FEV
FEZ1
FFAR2
FFAR3
FGF14
FGF18
FGFR1
FGG
FGL1
FKBP2
FLNB
FLOT2
FLRT3
FNIP2
FOXP2
FOXP2
FRK
FUK
FXYD2
FXYD3
GADD45B
GADD45G
GALNT13
GCH1
GCLM
GCNT1
GCNT3
GFRA2
GGA2
GIT1
GLI2
GLRX
GLS
GLT8D2
GLUL
GNG2
GOLM1
GOSR2

GPB1
GPHN
GPR119
GPR148
GPX1
GPX3
GPX4
GRAMD3
GRSF1
GTF3C1
GTPBP4
GUCD1
H3F3B
HABP2
HCN4
HECTD3
HEPACAM2
HERC1
HEXB
HHLA2
HIF1A
HINT3
HIP1R
HIPK2
HIST1H2AC
HIST1H2BC
HLTF
HOMER2
HPSE
HS3ST1
HSD11B1
HSP90AA1
HSP90AB1
HSP90B1
HSPA5
HSPA8
HTRA1
ICAM1
ID1
ID4
IFIH1
IFNB1
IFT122

IFT52
IGFBPL1
IKBKAP
IL12A
IL18BP
IL1R2
IL6R
IPO4
IRF2
IRF6
IRF7
ISL1
ITGB1
ITGB8
IVNS1ABP
JAK1
JAK2
JKAMP
JOSD2
JUNB
KAT6B
KCNIP1
KCNK17
KCNMA1
KCTD2
KCTD3
KIAA0922
KIAA1109
KIAA1147
KIAA1549L
KIF12
KIF19
KIF3B
KIT
KL
KLF10
KLF11
KLHDC3
KMO
KRT13
KSR2
LAPTM4A
LDB2

LDHA
LDLRAD1
LHFP
LINGO2
LIPG
LMAN1
LMBRD1
LMO2
LNPEP
LONRF2
LOXL4
LPCAT1
LRP11
LRRC49
LRRFIP1
LRRN1
LRRTM2
LSAMP
MACC1
MACF1
MAFB
MAGED1
MAGI1
MAP1LC3B
MAP3K12
MAP3K4
MAP4K5
MAP6
MAP7
MAPK4
MAPK6
MAPRE1
MAPRE2
MATN2
MBD2
MBD4
MBOAT2
MDH2
ME3
MED28
MEIS2
MEP1B
METTL9

MFSD6
MGAT4A
MGST3
MLXIPL
MLYCD
MMP16
MOB1B
MPPE1
MS4A8
MTSS1
MUC13
MYO10
MYO1B
MYO5B
MYO5C
NAAA
NAPA
NBAS
NBEAL2
NCALD
NCF2
NDFIP1
NDUFV2
NECAB2
NELFCD
NELL2
NET1
NFKBIA
NGRN
NKRF
NLN
NOL4
NOMO1
NPNT
NPTX2
NR0B1
NRCAM
NRP2
NT5DC3
NTRK2
NUCB2
NUDT4
OCRL

OGFR
OPN3
ORAI1
OTOGL
OTUD3
OXTR
P4HTM
PACRG
PAK3
PAM
PANX1
PAPPA2
PARM1
PARP10
PAX6
PCDHGC3
PCP4
PCSK1
PCSK2
PCYOX1
PCYOX1L
PDCD4
PDE4DIP
PDE8A
PDE8B
PDIA5
PDIA6
PDK4
PDP2
PEG10
PELI3
PEMT
PERP
PGAM1
PHKA1
PHTF2
PID1
PIGT
PIK3IP1
PIM2
PITPNM1
PLCE1
PLEKHA1

PLEKHG3
PLK2
PLXNA3
PMM2
PPARGC1B
PPL
PPP2R2B
PPP2R5B
PRDX4
PRKCE
PRKCI
PSAT1
PSENEN
PSME1
PTGDR2
PTGER4
PTK7
PTP4A3
PTPRN
PTPRT
PUM2
QDPR
RAB26
RAB3B
RAB3C
RAPGEF4
RARRES3
RBP4
RBPMS
RCAN3
RCE1
RDH10
REEP4
RELB
RFX3
RFX5
RGPD6
RGS9
RHBDD3
RHBDF2
RHPN1
RIMBP2
RIMKLB

RNASET2
RNF170
RNF213
RNF40
RPL3
RPS25
RRAS
RRM2B
RSPH1
SAMSN1
SCAMP3
SCARB2
SCG3
SCGN
SCMH1
SDC2
SDCBP
SDF2L1
SEC24D
SEL1L3
SEMA4B
SEMA6D
SEPHS1
SERPINA4
SERPINA6
SERPINB1
SESN1
SGK2
SGMS2
SHISA5
SHROOM1
SHROOM3
SIGLEC15
SIPA1L1
SLC12A7
SLC14A1
SLC16A12
SLC16A9
SLC22A16
SLC22A17
SLC22A4
SLC24A3
SLC29A1

SLC29A4
SLC30A1
SLC31A2
SLC35A4
SLC35C2
SLC36A4
SLC38A8
SLC39A1
SLC40A1
SLC43A2
SLC5A3
SLC6A16
SLC7A8
SLC9A1
SLC05A1
SMARCA2
SMARCD3
SMOC1
SMPD3
SND1
SNED1
SNX33
SOAT1
SOAT2
SOCS3
SOD2
SORT1
SPATS2
SPC25
SPHK1
SPINT2
SPON2
SPPL2A
SPRED3
SPRYD4
SPTAN1
SPTBN1
SRRM2
SSR1
SSTR2
SSU72
ST3GAL6
ST5

STAP2
STAT4
STK39
STRADB
STX1A
STXBP6
SUMF2
SYDE2
SYNGR2
SYT13
SYT4
SYTL2
TAGLN3
TANC2
TBC1D23
TEAD1
TECR
TEF
TGFB3
TGOLN2
THUMPD1
TIAM1
TIPARP
TM9SF2
TMBIM6
TMCO3
TMED10
TMED3
TMEM163
TMEM200A
TMEM45B
TMEM59
TMEM70
TMEM98
TMSB10
TMSB4X
TMX1
TNFRSF14
TNFRSF1A
TNFRSF21
TNRC6B
TNS3
TOM1L2

TOX3
TPPP3
TPST2
TRIB3
TRIO
TRIP12
TRNP1
TRPC4
TSPAN1
TSPAN2
TSPYL2
TTC3
TTLL12
TTLL6
TUBA1A
TUBA1B
TUSC3
UBE2J1
UBR2
UCN3
UCP2
UGGT1
UNC5A
UNC5CL
USH2A
USO1
USP38
USP45
UTRN
VMA21
VNN3
VPS41
VRK3
VWCE
WARS
WDFY2
WDR37
XRCC6
XRN2
YIPF2
YTHDF3
ZC3H12A
ZC3H12C

ZCCHC18
ZFP36L1
ZKSCAN1
ZNF107
ZNF169
ZNF511
ZNF618
ZNRF1