

Gene	AMPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JNK / STAT1 Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
AZM															X										
ABCA2							X																		
ABCA3							X																		
ABCA4							X																X		
ABCA5							X																		
ABCA9							X																		
ABCB11							X																X		
ABCB4							X																X		
ABCB5																					X				
ABCB6							X																		
ABCC1							X																		
ABCC10							X																		
ABCC11							X																		
ABCC12							X																		
ABCC2							X																		
ABCC3							X																		
ABCC4							X																X		
ABCC5							X																X		
ABCC6							X																X		
ABCD1							X																X		
ABCD3							X																X		
ABCD4							X																X		
ABCF1							X																X		
ABCG2					X																X				
ABCG8							X																X		
ABHD2				X																			X		
ACACA	X																								
ACACB	X																						X		
ACADS																		X							
ACKR1					X																				
ACKR2														X											
ACKR3					X									X											
ACKR4														X											
ACLY																		X							
ACSL3																			X				X		
ACSL4																			X				X		
ACSL5																			X				X		
ACTA2																			X		X				
ACTB	X	X	X								X														
ACTR1B																		X							
ACTR2								X																	
ACTR3B																							X		
ACVR1B																		X							
ACVR1C																		X							
ACVR2A																		X							
ADAM17					X													X							
ADAM23																		X							
ADAMT1																		X							
ADAR																		X					X		
ADCK3																		X							
ADIPOQ														X									X		
ADIPOR1	X																						X		
ADIPOR2	X																						X		
ADM																				X		X			
ADORA2A														X						X					
ADORA2B														X											
ADRA1A	X																								
ADRA1B	X																								
ADRA1D	X																						X		
ADRA2A	X			X																			X		
ADRA2B	X																						X		
ADRA2C	X																								
AFF1																		X							
AGER																							X		
AGFG1																		X							
AGGF1		X																							
AGT																		X							
AHNAK																			X						
AHNAK2																			X						
AHR							X																		
AHRR							X																		
AICDA																					X				
AIFM1			X	X																			X		
AIMP2																		X							
AK1	X																								
AK2	X																								
AK3	X			X																					
AKAP1																								X	
AKR1B1																						X	X		
AKR1C3																		X							
AKT1	X	X	X					X	X	X					X		X	X	X				X		
AKT1S1																									
AKT2	X							X	X	X								X	X						
AKT3	X							X	X	X								X	X						
ALAS1																									
ALB																						X	X		
ALCAM					X																X				
ALDH1A1																					X				
ALDH1A3																					X				
ALDH2																		X							
ALDH4A1																		X							
ALDOC												X													
ALK					X																				
ALKBH2																		X							
ALKBH3																		X							
ALPL																				X			X		
AMER1																		X							
AMFR																		X							
AMH																		X							
AMOT		X																							
ANAPC2				X																					
ANG		X																					X		
ANGPT1		X																							
ANGPT2		X																							
ANGPTL1		X																							

Gene	MAPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JNK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
ANGPTL4	X													X											
ANKRD37														X											
ANLN																				X					
ANPEP	X				X																				
ANXA1																				X					
ANXA2														X						X					
ANXA3																				X					
ANXA8																				X					
AP2B1																				X					
APAF1		X																							
APBB1																				X					
APC																			X					X	
APCS																									
APEX1								X						X									X	X	
APEX2								X																	
APH1B																								X	
APOC2																								X	
APOC4																								X	
APOL3															X										
APP		X																							
APBB2																				X					
AQP1																							X		
AQP2																							X		
AQP4																							X		
AQP7																								X	
AQP9																								X	
AR																				X					
ARAF								X	X	X										X					
AREG									X															X	
ARHGAP44															X					X					
ARHGEF16																				X					
ARID1A																				X				X	
ARID1B																				X					
ARID2																				X				X	
ARMC1																				X					
ARNT														X						X		X			
ARNT2																				X					
ARNT3																				X					
ASB13																				X					
ASB16-AS1																				X					
ASB9																				X					
ASNS																				X					
ASPM																				X					
ASXL1																				X					
ATAD2																								X	
ATF1								X												X					
ATF2								X												X					
ATF4																				X				X	
ATF6																				X				X	
ATF6B																				X				X	
ATG12			X																					X	
ATG13	X																								
ATG16L1			X																						
ATG3			X																						
ATG5			X																					X	
ATG7			X																					X	
ATM				X			X															X	X		
ATP5A1																								X	
ATP5F1																								X	
ATP5G1																				X					
ATPEVOC																								X	
ATPEV1G2		X																						X	
ATP7A																				X					
ATP7B																				X					
ATR				X			X							X										X	
ATRX																				X					
ATXN1																									
ATXN3							X																		
AURKA				X																					
AURKB				X																					
AURKC																				X					
AXIN1																								X	
AXIN2																				X				X	
AXL																					X				
B3GNT8																				X					
BAD			X					X												X					
BAG1			X																					X	
BAG2																								X	
BAG3			X																						
BAG4																				X					
BAG5																				X					
BAI1		X																							
BAIAP3																				X					
BAK1			X																						
BAMBI																								X	
BAP1																				X					
BATF																				X					
BAX			X																						
BBC3			X																	X				X	
BBS4																				X					
BCAR1								X																	
BCAT1				X																					
BCCIP					X																				
BCL10			X																						
BCL2			X		X			X			X									X					
BCL2A1			X																	X					
BCL2L1			X												X					X				X	
BCL2L10			X																	X					
BCL2L11			X																	X					
BCL2L2			X																	X					
BCL3																				X					
BCL6																								X	
BCOR														X						X					
BCR																								X	
BDNF																				X					
BECN1		X																						X	

Gene	AP1/NF-κB Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
CDC25A				X																			X		
CDC25B				X																			X		
CDC25C				X																			X		
CDC34				X																			X		
CDC42										X						X			X		X				
CDC42BPA																		X							
CDC6				X																			X		
CDC7				X																					
CDCA7																								X	
CDH1					X				X	X										X					
CDH13										X															
CDH15																		X							
CDH2					X					X													X		
CDH3										X													X		
CDH5	X				X					X													X		
CDK1				X																		X		X	
CDK16																							X		
CDK2				X												X							X		
CDK4				X												X							X		
CDK5																		X							
CDK5R1				X																					
CDK5RAP1				X																					
CDK6				X												X							X		
CDK7				X				X																	
CDK8				X																					
CDK9																					X				
GDKL5																			X						
GDKN1A				X											X	X				X		X			
GDKN1B				X												X			X						
GDKN1C																X									
GDKN2A		X		X												X									
GDKN2B				X												X									
GDKN2C				X												X							X		
GDKN2D				X												X							X		
GDKN3				X																			X		
GDDN											X												X		
GDX2																			X						
CEACAM3					X										X										
CEACAM5					X										X										
CEACAM7															X										
CEBPA																							X		
CEBPB															X	X				X					
CEBPD															X	X				X					
CEBPE																			X						
CECR6																			X						
CELSR2																			X						
CENPF				X																			X		
CENPN				X																			X		
CEP55																			X						
CES1																							X		
CES2																							X		
CFLAR		X															X						X		
CFTR																							X		
CHAD																							X		
CHD1																							X		
CHD7																							X		
CHDH																							X		
CHEK1				X																		X	X	X	
CHEK2				X																		X	X	X	
CHGA	X																								
CHI3L1													X												
CHI3L2																					X				
CHMP4B																					X				
CHPT1																								X	
CHRNA1	X																								
CHRN1	X																								
GHSV1																								X	
GHUK			X					X							X	X			X						
GIC																			X						
GIDEA			X																						
GIDEB			X																						
GIRBP																							X		
GITED2																							X		
GXB																							X		
GXLF															X								X		
GKMT1A															X								X		
GKMT2															X								X		
GKS1B				X																			X		
GKS2				X																			X		
GLCA2																							X		
GLCF1																					X				
GLDN3																					X				
GLIC1																					X				
GLIC3																							X		
CMC2																					X				
CMKLR1															X										
CMTM1															X								X		
CMTM2															X								X		
CMTM3															X								X		
CMTM4															X								X		
CNIH4																					X				
CNOT3																						X			
CNPY1																					X				
CNPY2																					X				
CNPY3																							X		
CNPY4																					X				
CNTF															X										
CNTRF															X										
COL11A1																							X		
COL11A2																					X				
COL17A1																					X				
COL18A1	X																						X		
COL1A1								X								X							X		
COL1A2																					X				
COL27A1																							X		

Gene	AMPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DAMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JNK / STAT1 Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signaling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
COL2A1																								X	
COL3A1				X																					
COL4A2																			X						
COL4A3	X																								
COL4A4																			X						
COL4A5																			X						
COL4A6																							X		
COL5A1																			X						
COL5A2																			X						
COL6A6																			X						
COL9A3																			X						
COMMD4			X																						
COMP																			X						
COP55													X												
COX5A																								X	
COX7B																			X						
CP																								X	
CPT1A	X																								
CPT1B	X																								
CPT1C	X																								
CPT2	X																		X						
CRADD			X																					X	
CREB1								X																	
CREB3L1																			X						
CREB3L3																								X	
CREB3L4																								X	
CREB5																								X	
CREBBP																	X								
GRK										X															
GRLF2														X	X										
GRLS1																			X						
GRP														X	X							X	X		
GRTAC1																			X						
GRTC2	X																		X						
GRY1	X																								
GRYAA																								X	
GRYAB																			X						
CSDE1																								X	
CSF1														X					X					X	
CSF1R					X									X	X									X	
CSF2														X					X					X	
CSF3		X												X					X					X	
CSF3R					X									X										X	
CSNK1A1											X													X	
CSNK1E				X							X														
CSNK2A1				X				X											X						
CSNK2B				X				X																	
CST6																								X	
CSTB																								X	
CTGF	X																								
CTLA4															X										
CTNNA1																									
CTNNB1									X		X									X				X	
CTNNBIP1									X															X	
CTNND2									X																
CTPS1																				X					
CTSA														X											
CTSB			X																					X	
CTSC																				X					
CTSD																				X					
CTSH																				X					
CTSL																				X					
CTSS			X																					X	
CTSV																				X					
CUL2					X																				
CUL3					X																				
CX3CL1															X										
CX3CR1															X									X	
CXADR															X									X	
CXCL1	X														X									X	
CXCL10	X														X										
CXCL11	X														X										
CXCL12	X														X									X	
CXCL13	X														X									X	
CXCL14	X														X									X	
CXCL16	X														X									X	
CXCL2	X														X										
CXCL3	X														X										
CXCL5	X														X										
CXCL6	X														X									X	
CXCL8																				X					
CXCL9	X														X	X									
CXCR1					X										X									X	
CXCR2					X										X									X	
CXCR3					X										X										
CXCR4					X										X									X	
CXCR5					X										X										
CXCR6					X										X										
CXC4															X										
CXCL6															X										
CYBA																								X	
CYBB			X																					X	
CYCS			X																					X	
CYLD			X																						
CYP19A1							X																	X	
CYP11A1							X																	X	
CYP11A2							X																	X	
CYP11B1							X																	X	
CYP2A6							X																	X	
CYP2B6							X																	X	
CYP2C19							X																	X	
CYP2C8							X																	X	
CYP2C9							X																	X	
CYP2D6							X																	X	
CYP2U1							X																	X	

Gene	MAPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signaling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
DUSP10																								X	
DUSP2																			X						
DUSP4																		X							
DUSP5																		X							
DUSP6								X																	
DUSP8				X																					
DVL1																								X	
DVL2																								X	
E2F1					X											X									
E2F3					X																			X	
E2F5					X																				
EAF2																			X						
EBAG9																			X						
EBF4																			X						
ECI2																			X						
ECT2																								X	
EDA2R			X												X										
EDIL3	X																								
EDN1	X												X									X			
EEF1G											X														
EEF2K	X																								
EFNA1		X																							
EFNA2																				X					
EFNA3																				X					
EFNA5																				X					
EFNB1																				X					
EFNB2	X																								
EGF	X							X	X												X				
EGFR	X							X	X												X			X	
EGLN1												X													
EGLN2												X												X	
EGR1				X				X									X	X							
EGR3																			X						
EI24																				X					
EIF2AK2																				X					
EIF4A1																				X					
EIF4B																				X				X	
EIF4E								X												X					
EIF4EBP1	X									X										X				X	
EIF4G1																				X					
EIF5B			X																					X	
EIF6																				X					
ELAVL1	X																								
ELK1								X								X	X			X					
ELL2																				X					
ELMO1																				X					
EML4																				X					
EMP1																					X				
EMP3																								X	
EN2																								X	
ENDOD1																				X				X	
ENDOG																				X					
ENG	X				X																X				
ENO1														X										X	
ENTPD1					X																				
EOMES															X									X	
EP300				X																					X
EPCAM					X																				
EPGN									X																
EPHA2																				X					
EPHB4	X																								
EPO																									
EPOR											X									X			X		
EPS8								X																	
ERBB2	X				X				X														X		
ERBB3									X																
ERBB4										X															
ERCC1								X																	
ERCC2								X																	
ERCC3								X																	
ERCC4								X																	
ERCC5								X																	
ERCC6								X																	
ERCC8								X																	
EREG	X								X																
ERG																									
ERO1L																				X				X	
ERRFI1																								X	
ESM1																				X					
ESR1			X																		X				
ESR2																					X				
ESRRB																					X				
ETFA																					X				
ETS1																X					X				
ETS2																X					X				
ETV1																								X	
ETV2																									
ETV4																									
ETV5																									
ETV7																									
EVL																									
EXO1								X																	
EXOC3																					X				
EXOSC8																								X	
EXT1																					X				
EYA1																					X				
EZH2																								X	
EZR																					X				
F10													X											X	
F11R					X																				
F2															X									X	
F2R															X									X	
F3		X			X																				
FB										X															
FABP1																					X				X

Gene	MAPK pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
GYS1	X													X											
GYS2	X																								X
GZMA																									X
GZMB			X																						X
GZMH																									X
H2AFX					X																				X
H3F3A					X																				X
H3F3C																		X							
HAND1																					X				
HAVCR2															X										
HBEGF								X	X																
HDAC1				X																	X				
HDAC10																		X							
HDAC11																		X							
HDAC2																									X
HDAC3																		X							
HDAC4																		X							
HDAC5																		X							
HDAC6																									X
HDAC7																									X
HDAC8					X																				
HECTD4																			X						
HELLS			X																						X
HERC3																		X							
HERPUD1																				X					
HES1																				X					
HES5																				X					
HEY1								X	X											X					
HEY2								X	X											X					
HEYL								X	X											X					
HGF	X							X																	X
HHAT											X														
HHEX																									X
HHIP											X														
HICI																			X						
HIF1A	X													X	X										
HIF1AN														X											
HIF3A														X											
HIST1H3H				X																					
HJURP				X																					X
HK2														X											
HLA-A															X										
HLA-B															X										
HLA-E															X										X
HMG1A1																									X
HMG2A1																		X							X
HMG1B1																									X
HMG2B1																									X
HMG3B1																									X
HMGCR	X																								X
HMGCS2																									X
HMGXB3																		X							X
HMOX1													X				X		X				X		X
HNF1A																		X							
HNF1B																									X
HNF4A	X													X							X				X
HNRNPA1																			X						
HNRNPA2B1																									X
HNRNPU																			X						
HOXA10																			X						
HOXA11																									X
HOXA9																									X
HOXB13																									X
HOXD1																			X						
HPGD														X											
HPN																									X
HPSE	X																								
HRAS								X	X	X						X			X	X					
HRK			X																						
HSD17B12																			X						
HSD17B4																									X
HSF1																			X						
HSF2																			X						
HSF4																			X						
HSP90AA1				X																					X
HSP90B1																									X
HSPA12A																								X	X
HSPA14																									X
HSPA1A																		X							
HSPA1B																		X							
HSPA1L																		X							
HSPA2			X	X																					
HSPA4																									X
HSPA4L																									X
HSPA5																	X								X
HSPA6																X									X
HSPA8																		X							
HSPA9																					X				
HSPB1																X			X						
HSPB2																		X							
HSPB3																		X							
HSPB6																		X							
HSPB7																									X
HSPB8																			X						
HSPBAP1			X																						
HSPD1																									X
HSPH1				X																					X
HTT			X																						
HUS1				X																			X		
IBSP																									X
ICAM1					X									X					X						X
ICOS					X									X											X
ID1	X													X						X	X				
ID2														X											X

Gene	AMPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DAMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
ID3														X											
ID4														X											
IDH1																		X							
IDH2																							X		
IDO1														X											
IDO2																		X							
IER3													X												
IFI27																		X							
IFIT2																				X					
IFNA2														X									X		
IFNA5																		X							
IFNAR1														X	X										
IFNB1	X													X											
IFNG	X	X												X	X		X			X					
IFNGR1					X									X	X								X		
IFNL3														X											
IFNW1																	X								
IFRD1																			X						
IFT52										X															
IGF1	X	X						X											X						
IGF1R		X			X			X											X						
IGF2		X						X																	
IGF2R					X			X															X		
IGFBP1								X															X		
IGFBP2								X															X		
IGFBP3								X				X											X		
IGFBP4								X															X		
IGFBP5			X					X															X		
IGFBP6								X															X		
IGFBP7								X															X		
IHH										X															
IKBK8			X															X				X			
IKBK9			X					X														X			
IL10	X	X												X				X							
IL10RA					X									X		X							X		
IL10RB					X									X									X		
IL11														X											
IL11RA														X											
IL12A	X													X											
IL12B	X													X											
IL12RB2														X											
IL13														X											
IL13RA2					X									X											
IL15														X											
IL16														X											
IL17A														X											
IL17F	X													X											
IL17RB														X									X		
IL17RD														X									X		
IL18														X											
IL19														X											
IL1A														X				X				X	X		
IL1B	X													X				X				X	X		
IL1R1					X									X				X							
IL1R2					X									X											
IL1RAP														X									X		
IL1RN														X									X		
IL2								X						X											
IL20														X	X										
IL20RA														X											
IL20RB														X									X		
IL21														X											
IL22														X											
IL22RA1														X									X		
IL22RA2														X											
IL23A														X											
IL23R														X											
IL24														X											
IL27														X											
IL2RA					X									X	X										
IL2RB					X									X									X		
IL2RG					X									X	X								X		
IL3														X											
IL33														X											
IL3RA					X									X									X		
IL4														X	X										
IL4R					X									X	X										
IL5														X											
IL5RA					X									X											
IL6	X		X											X								X	X		
IL6R					X									X									X		
IL6ST					X									X	X										
IL7														X											
IL7R					X									X									X		
IL9														X											
ILK														X					X						
INFA Family																			X						
INHBA																			X						
INHBB																			X						
INPP5J																			X						
INS			X																					X	
INSR	X				X										X								X		
INTS7																			X						
IRAK1														X			X		X						
IRAK2																	X								
IRAK3																	X								
IRF1		X												X	X		X			X			X		
IRF2		X												X									X		
IRF3		X												X									X		
IRF4		X												X									X		
IRF5		X												X									X		
IRF6		X												X									X		
IRF7		X												X									X		
IRF8														X									X		
IRF9														X	X								X		

Gene	AMPK pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / AKT Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue-Specific Genes	WNT Pathway
IRGM			X																	X					
IRS1																				X					
IRS2																				X					
ISG15															X										
ISL1																									
ITGA2					X																X				
ITGA3					X																X				
ITGA4					X																X		X		
ITGA5					X																X				
ITGA6					X																X				
ITGA7																				X					
ITGA8																				X			X		
ITGA9																			X						
ITGAM					X									X									X		
ITGAV	X				X																				
ITGB1					X														X		X				
ITGB2					X									X									X		
ITGB3	X				X																				
ITGB4					X																				
ITGB6																				X					
ITGB7																				X			X		
ITGB8																				X					
ITLN2																				X					
ITM2A														X									X		
ITPKB									X	X										X	X				
JAG1	X				X															X	X				
JAG2																			X						
JAK1								X	X						X								X		
JAK2								X	X						X						X				
JAK3								X	X						X								X		
JMJD1C																							X		
JMJD6													X										X		
JPH3		X																							
JUN	X							X	X						X	X	X			X				X	
JUNB										X															
JUND										X															
KAT2B																									
KAT5																									
KATNB1																				X					
KCND2																							X		
KCNIP1		X																					X		
KCNK5																				X					
KCTD11											X														
KDM1A																				X					
KDM3A																				X					
KDM3B																				X					
KDM4B																				X			X		
KDM5B																				X					
KDM5C																				X					
KDM6A																				X					
KDM7A																				X					
KDR	X				X																				
KEAP1																				X					
KIF14																							X		
KIF2C				X																			X		
KIF3A																				X					
KIF3B																				X					
KIF5B																				X					
KIT					X									X							X		X		
KITLG	X													X											
KL									X												X		X		
KLB									X														X		
KLF12																				X					
KLF17																					X				
KLF4																					X				
KLHDC10																				X					
KLK1																							X		
KLK2																							X		
KLK3	X																						X		
KLK4																				X					
KLK5																							X		
KLRB1					X																		X		
KLRD1					X																		X		
KLRG1																							X		
KMT2B																				X					
KMT2C																				X					
KMT2D																				X					
KNG1				X										X									X		
KNTC1																							X		
KPNA2				X																			X		
KRAS								X	X	X						X				X					
KREMEN1																								X	
KRT13																							X		
KRT14																							X		
KRT16																							X		
KRT17																							X		
KRT18																				X					
KRT19																				X					
KRT5																				X					
KRT6A																				X					
KRT7																				X					
KRT8																				X					
KSR1																				X					
L1CAM					X																				
LAG3					X																				
LAMA1														X											
LAMA3																				X					
LAMA5																				X					
LAMB3																							X		
LAMB4																				X					
LAMC2																							X		
LAMC3																				X					
LAMP5																				X					
LAMTOR3																X									
LAT																				X					

Gene	MAPK pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway	
LATS1												X									X					
LATS2												X														
LCN1																		X								
LCN2																		X								
LECT1		X																								
LEF1																									X	
LEFTY1																								X		
LEFTY2																								X		
LEP			X																					X		
LEPR	X				X																			X		
LETMD1																		X								
LFNG																				X				X		
LGALS1																		X								
LGALS3												X														
LIF													X													
LIFR					X									X												
LIG1				X				X																		
LIG3								X																		
LIG4								X																X		
LIN28A																					X					
LIN28B																					X					
LIN9				X																						
LINC00886																			X							
LIPA																								X		
LIPE	X																									
LMO2																			X							
LOX												X														
LOXL1																			X							
LPCAT1																								X		
LPL																			X							
LRG1														X					X					X		
LRIG1																				X				X		
LRMP																								X		
LRP12																			X							
LRP1B																			X							
LRP2											X													X		
LRP5																									X	
LRP6																									X	
LRRFIP2																			X							
LRKK2																									X	
LTA		X						X						X				X							X	
LTA4H																									X	
LTB														X											X	
LTBP1																									X	
LTBR		X												X					X							
LTF																			X							
LTN1																			X							
LY96														X												
LYN																								X		
LYVE1																			X							
LYZ														X												
MACC1																				X						
MAD2L1				X																					X	
MADCAM1																			X							
MADD		X																							X	
MAF														X												
MAFF																			X							
MAG			X																							
MAGEA1															X											
MAGEA10-MAGEA5																				X						
MAGEA11															X											
MAGEA2															X											
MAGEA4															X											
MAGEB1															X											
MAGEB2															X											
MAGEB3															X											
MAGEC1															X											
MAGEC2															X											
MAGED1															X											
MAGED2															X										X	
MAGEE1															X											
MAGEF1															X											
MAGEL2															X											
MALT1																										
MAML1																			X							
MAML2																				X						
MAGA																				X						
MAGB																				X						
MAP1B																				X						
MAP1LC3A		X																								
MAP2K1								X	X	X					X				X	X						
MAP2K2								X	X	X					X				X	X						
MAP2K3								X	X	X					X				X	X				X		
MAP2K4		X						X	X	X					X				X	X						
MAP2K5								X	X	X					X				X	X						
MAP2K6								X	X	X					X				X	X						
MAP2K7								X	X	X					X				X	X						
MAP3K1		X						X	X	X		X			X	X			X	X						
MAP3K12																										
MAP3K13																				X						
MAP3K14																				X						
MAP3K2								X	X						X										X	
MAP3K3															X										X	
MAP3K4															X										X	
MAP3K5																									X	
MAP3K8																			X							
MAP4K1																										
MAP7D1																			X						X	
MAPK1				X				X	X	X	X		X		X				X	X					X	
MAPK10		X						X	X	X					X				X	X					X	
MAPK11								X	X	X					X				X	X			</			

Gene	MAPK pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER2 Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT1 Pathway	Map Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	WWP1 Pathway
MAPK6									X	X						X				X					
MAPK7									X	X						X				X					
MAPK8		X							X	X									X	X				X	
MAPK8IP2																									
MAPK9									X	X	X									X				X	
MAPKAP2																								X	
MAPKAP3																								X	
MAPKAP5																			X						
MAPKAP5-AS1																			X						
MAPRE2																			X						
MAPT																			X						
MAT2A																			X						
MAX				X																				X	
MAZ																			X						
MBL2																								X	
MCCC1																			X						
MCL1		X																						X	
MCM2				X																				X	
MCM3				X																				X	
MCM4				X																				X	
MCM5				X																				X	
MCM6			X	X																				X	
MCM7				X																				X	
MDC1																			X						
MDK	X																								
MDM2		X		X					X																
MDM4																								X	
MECOM																				X					
MED1																				X					
MED12																									
MED23																				X					
MED24																				X					
MEF2C																									
MEIS1																									
MELK																				X					
MEN1																				X					
MERTK																									
MESP1																									
MET									X																
METM																				X					
MFNG																								X	
MGA																				X					
MGAT4A																				X					
MGEA5		X																						X	
MGMT								X																X	
MGST1																				X					
MIA																				X					
MIF																				X					
MIXL1																									
MKI67				X																				X	
MKNK1									X															X	
MLF1																								X	
MLH1				X					X																
MLH3				X					X																
MLLT3																				X					
MLLT4																				X					
MLPH																				X					
MLYCD	X																							X	
MME					X																			X	
MMP11																				X					
MMP14		X																							
MMP2		X																							
MMP3																				X					
MMP7									X																
MMP9		X												X	X							X	X	X	
MMS19									X																
MNAT1				X																					
MOB1B											X														
MOS																									
MPG									X																
MPL					X																				
MPO																									
MRE11A				X					X															X	
MRLP13																								X	
MS4A1					X																			X	
MSH2									X															X	
MSH3									X															X	
MSH4				X					X															X	
MSH5				X					X															X	
MSH6									X															X	
MSI1																				X					
MSL2																								X	
MSN																								X	
MSR1					X																				
MST1																									
MST1R					X																				
MSTN																									
MT1A																								X	
MT1X																									
MT2A																									
MTA1																									
MTCP1																				X					
MTDH																									
MTFP1																								X	
MTHFD1																								X	
MTMR2																				X					
MTOR	X								X	X										X	X				
MTSS1											X													X	
MUC1					X																			X	
MUTYH								X																X	
MVP																				X				X	
MX1																								X	
MXI1																								X	
MYB														X										X	
MYBL1																								X	

Gene	AMPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	WWIT Pathway
PRKCG									X	X									X	X			X		
PRKCZ									X	X									X	X					
PRKDC							X		X	X													X		
PRKG1																							X		
PRKX																			X						
PRL	X														X								X		
PRLR															X										
PRMT1																			X						
PRMT6																			X					X	
PRMT8																							X		
PROK1	X																						X		
PROK2	X																						X		
PROM1					X																X				
PRR15L																		X							
PSG2																							X		
PSIP1																		X					X		
PSMD2				X																			X		
PSMD7			X	X																			X		
PSMG1																							X		
PSRC1																							X		
PTCH1											X									X	X				
PTCH2											X														
PTCHD1											X														
PTCHD2											X														
PTCHD3											X														
PTCRA														X									X		
PTDSS1																		X							
PTEN								X										X					X		
PTGR1																							X		
PTGS1	X																						X		
PTGS2														X									X		
PTHLH																		X							
PTK2																		X		X					
PTN	X																								
PTPA1																				X					
PTPN1															X										
PTPN11															X				X						
PTPN5																							X		
PTPRC					X																X		X		
PTPRR																		X							
PTTG1				X																					
PTTG2																			X						
PUS1																		X							
PVR		X	X		X																	X			
PYCARD		X																					X		
PYCR1																							X		
PYGL		X																					X		
QDPR																			X						
QSOX2																			X						
RAB23											X														
RAB25		X																							
RAB27B																			X						
RAB4A																							X		
RAB6B																							X		
RAC1									X	X					X			X	X				X		
RAC2									X	X								X	X				X		
RAC3									X	X								X	X						
RACGAP1																							X		
RAD1				X																					
RAD17				X																			X		
RAD18							X																		
RAD21				X			X																		
RAD23A							X																X		
RAD23B							X																		
RAD50				X			X																X		
RAD51				X			X																		
RAD51B							X																		
RAD51C				X			X																		
RAD51D							X																		
RAD52							X																		
RAD54L							X																		
RAD9A				X																		X	X		
RAF1								X	X	X					X	X			X	X			X		
RAG1														X									X		
RALA																			X						
RAMP1																			X				X		
RAMP2																			X						
RAMP3																			X						
RAP1A								X																	
RARA																							X		
RARB																			X						
RASA1								X												X			X		
RASA4																			X						
RASAL1																			X						
RASD1																			X						
RASGRF1																			X						
RASGRF2																			X				X		
RASGRP1									X	X										X			X		
RASGRP2									X	X										X			X		
RASSF1																			X						
RASSF7																			X						
RB1				X											X					X					
RB1CC1	X																								
RBBP8				X																					
RBL1				X																					
RBL2				X																X					
RBM10																			X						
RBP1																							X		
RBPJ													X												
RBPMS2																							X		
RBX1																				X					
RECQL5																				X					
REL																			X	X					
RELA		X																	X	X					
RELB																			X						

Gene	MAPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER2 Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JAK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway						
RELN																								X							
REST																									X						
RET																										X					
RFC1				X			X																								
RFC3				X																							X				
RFC4				X																							X				
RG52																											X				
RHEB																															
RHOA								X		X							X		X									X			
RHOB	X									X																					
RHOV										X																					
RIF1																												X			
RIN1																												X			
RIPK1		X													X												X				
RIPK2		X													X																
RIPK3		X													X																
RIT1																													X		
RND2																													X		
RNF149																													X		
RNF4																													X		
RNF43																													X		
RNH1	X																														
RORC															X																
ROS1																															
RPA1				X				X																						X	
RPA3				X				X																						X	
RPL13																														X	
RPL35																														X	
RPL38												X																		X	
RPL5																														X	
RPL6												X																		X	
RPRM																															
RPS4X																															
RPS6KA1																															
RPS6KA5									X																					X	
RPS6KA6																														X	
RPS6KB1	X		X	X				X																						X	
RPS6KB2	X																													X	
RPS7																														X	
RPTOR	X																													X	
RRAS2																														X	
RRM1																														X	
RRM2				X																										X	
RRM2B																														X	
RSP01																														X	
RSP02																														X	
RTN1																														X	
RTN4RL1																														X	
RUNDC1																														X	
RUNX1	X																													X	
RUNX1T1																														X	
RUNX2											X																			X	
RUNX3																														X	
RUVBL1				X																										X	
RXRG																														X	
S100A2																														X	
S100A4																														X	
S100A6																														X	
S100A7A		X																												X	
S100A8																														X	
S100B																														X	
S1PR1	X				X																									X	
SACS																														X	
SAFB																														X	
SALL4																														X	
SAP30																														X	
SAV1																														X	
SCAPER																														X	
SCN1A																														X	
SCN3A																														X	
SCUBE1																														X	
SCUBE2																														X	
SEC14L2																														X	
SEC22C																														X	
SEC61G																														X	
SELE					X																									X	
SELM																														X	
SENF1																														X	
SERPINA3																														X	
SERPINA9																														X	
SERPINB2																														X	
SERPINB5																														X	
SERPINC1	X																													X	
SERPINE1	X		X																										X	X	
SERPINF1	X																													X	
SERPINH1																														X	
SERTAD1					X																									X	
SETBP1																														X	
SETD2																															

Gene	AMPK Pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DAMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HERB Pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JNK / STAT Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway
TFPI2																								X	
TGFA	X								X																
TGFB1	X													X										X	
TGFB2	X		X											X											
TGFB3																					X				
TGFB1																		X			X				
TGFB1	X																	X							
TGFB2																		X							
THAP11																					X				
THBS1	X																							X	
THBS2	X																								
THBS4																		X							
THEM4																		X							
THPO													X											X	
THY1					X																X				
TIAM1			X												X									X	
TICAM1														X			X								
TIE1	X																								
TIFA																		X							
TIMP1	X		X															X							
TIMP2	X																								
TIMP3	X																								
TINF2				X																				X	
TIPARP																		X							
TIRAP																		X		X					
TK1													X					X							
TLR1					X									X			X							X	
TLR2					X									X			X							X	
TLR3					X									X			X								
TLR4					X									X			X				X				
TLR5					X									X				X						X	
TLR6					X									X			X								
TLR7					X									X			X								
TLR8					X									X			X							X	
TLR9					X									X			X							X	
TLX1														X			X							X	
TM6SF1																		X							
TMEM116																								X	
TMEM123		X																							
TMEM132A																		X							
TMEM45A																								X	
TMEM45B																								X	
TMEM57		X																							
TMEM74B																		X							
TMPRSS2																								X	
TMSB10																		X							
TNC																								X	
TNF	X	X												X					X		X			X	
TNFAIP2																		X						X	
TNFAIP3																		X						X	
TNFRSF10A		X			X									X				X				X			
TNFRSF10B		X			X									X				X				X			
TNFRSF10C					X									X				X						X	
TNFRSF10D					X									X				X						X	
TNFRSF10E					X									X				X						X	
TNFRSF11B		X												X										X	
TNFRSF12A					X																				
TNFRSF14		X			X									X											
TNFRSF17		X			X									X											
TNFRSF1B		X			X									X										X	
TNFRSF21		X			X									X											
TNFRSF25		X			X									X											
TNFRSF4		X			X									X											
TNFRSF8		X			X									X											
TNFRSF9		X			X									X											
TNFSF10		X			X									X					X						
TNFSF11					X									X											
TNFSF13B					X									X										X	
TNFSF14					X									X										X	
TNFSF15		X			X									X											
TNFSF8		X			X									X											
TNFSF9					X									X											
TNKS																		X							
TNKS2																		X							
TNN																		X							
TNNC2														X										X	
TNNI2		X												X										X	
TNNI3		X												X										X	
TNR																		X							
TNKB																		X							
TOLLIP														X				X						X	
TOMM40																		X		X					
TOP1																		X						X	
TOP2A				X																				X	
TOP2B																								X	
TOP3A				X				X																	
TOP3B								X																	
TOR1A																		X							
TP53	X	X		X				X		X		X			X							X			
TP53AIP1																								X	
TP53BP2		X																							
TP53I3																		X							
TP63		X																						X	
TP73		X																							
TPD52																		X							
TPI1													X												
TPO																								X	
TPX2																								X	
TRADD		X												X			X								
TRAF2		X												X			X								
TRAF3		X												X			X								
TRAF6														X			X								
TRAF7														X			X								
TREX1								X																X	
TRIB1																		X							
TRIM28																					X			X	

Gene	MAPK pathway	Angiogenesis	Apoptosis	Cardio Toxicity	Cell Cycle	Cluster of Differentiation	DMPK	DNA Repair	EGF / PDGF Pathway	EGFR / HER pathway	FGFR Pathway	Hedgehog Pathway	Housekeepers	Hypoxia	Immuno Oncology	JNK / STAT1 Pathway	MAP Kinase Pathway	NFkB Pathway	Other Genes of Interest	PI3K / Akt Pathway	Receptors, Ligands & Cell Signalling	Stem Cells	Stress Toxicity	Tissue Specific Genes	Wnt Pathway	
XRCC2							X																			
XRCC3							X																			
XRCC4							X																			
XRCC5							X																X			
XRCC6							X																			
XRCC6BP1							X																			
YAP1																						X				
YBX3																		X								
YWHAH																			X					X		
YWHAZ												X														
YY1															X									X		
ZAK																		X								
ZBTB10																		X								
ZBTB16																		X								
ZBTB32																		X								
ZEB1																						X				
ZEB2																						X				
ZFP36L1																		X								
ZFP42																						X				
ZFX																						X				
ZHX2																			X							
ZIC1											X															
ZIC2											X													X		
ZNF189																			X							
ZNF385B																			X							
ZNF420																			X							
ZNF502																			X							
ZNF552																			X							
ZNF589																			X							
ZNF805																			X							