

Stem-Seq™ panel 361-gene list

Gene Name (Hg38)		
AKT1	NRAS	FLT1
AKT2	NTRK1	FOXA1
AKT3	PALB2	FOXA2
ALK	PBRM1	FOXL2
AMER1	PDCD1LG2	FOXO1
APC	PDGFRA	FOXP1
APLN	PDGFRB	FUBP1
AR	PHF6	GATA6
ARAF	PIK3CA	GNA13
ARID1A	PIK3CB	GPS2
ARID1B	PIK3R1	HIF1A
ARID2	PMS2	HIST1H1C
ASXL1	POLE	IDO1
ATM	POLQ	IDO2
ATR	PPP2R1A	IFNGR1
ATRX	PTCH1	IFNGR2
AURKA	PTEN	IL6ST
AXL	PTPN11	IRF1
B2M	RAC1	KDM5C
BAP1	RAD21	KDM6A
BCL2	RAD50	KEAP1
BLM	RAF1	KMT2B
BRAF	RB1	KMT2C
BRCA1	RET	KMT2D
BRCA2	RHOA	LZTR1
CBL	RNF43	MDM4
CCND1	ROS1	MECOM
CCND2	RPL5	MGA
CCND3	RUNX1	MGMT
CCNE1	SETBP1	MRE11
CD274	SETD2	MSH3
CD58	SF3B1	MYCL
CDK12	SMAD4	MYH9
CDK2	SMARCA4	NCOA2
CDK4	SMARCB1	NCOR1
CDK6	SMO	NLRC5
CDKN1A	SOCS1	NRG1
CDKN1B	SPOP	NSD1
CDKN2A	SRC	NSD3
CDKN2B	STAG1	NTRK2
CHEK2	STAG2	NTRK3
CIITA	STAT3	PARP1
CREBBP	STAT5B	PAX5
CTCF	STK11	PCBP1
CTNNB1	SYK	PIAS3

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DAXX	TERT	PIAS4
DICER1	TGFBR2	PIK3CD
DNMT3A	TP53	PIK3R2
EGFR	TSC1	PIM1
EP300	TSC2	PLCG1
EPHA3	U2AF1	PMS1
ERBB2	VHL	PPM1D
ERBB3	WT1	PPP2R2A
ERBB4	YAP1	PPP4R2
ERG	ABL1	PPP6C
ESR1	ABL2	PRKAR1A
ETV6	ABR	PSIP1
EZH2	ABRAXAS1	PTK2
FAS	ACVR1B	PTPRD
FBXW7	ACVR2A	QSER1
FGF19	AJUBA	RAD51B
FGFR1	AKAP9	RAD51C
FGFR2	ALOX12B	RAD51D
FGFR3	ALOX15B	RAD52
FGFR4	ARHGAP35	RAD54L
GATA3	ARID5B	RASA1
GNA11	ASXL2	RBM10
GNAQ	AURKB	RFX5
GNAS	AURKC	RFXAP
H3F3A	AXIN1	RHEB
H3F3B	AXIN2	RICTOR
HGF	BARD1	RIT1
HIST1H3B	BCOR	RPL22
HIST1H3C	BIRC3	SERPINB3
HIST2H3C	BRIP1	SERPINB4
HLA-A	CARD11	SMAD2
HLA-B	CASP8	SMAD3
HLA-C	CBFB	SMC1A
HNF1A	CD74	SMC3
HRAS	CDC73	SMG1
IDH1	CDH1	SOS1
IDH2	CDK8	SOX17
IGF1R	CDKN1C	SOX9
JAK1	CDKN2C	SPEN
JAK2	CHD4	SRSF2
JAK3	CHD8	STAT1
JUN	CHEK1	TAF1
KDR	CIC	TAF3
KIT	CKS1B	TAP1
KLF4	COL17A1	TAP2
KMT2A	CTLA4	TAPBP
KRAS	CUL3	TBL1XR1

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MAP2K1	CUX1	TBX3
MAP2K2	CYLD	TCF12
MAP2K4	DDR2	TCF7L2
MAP3K1	DDX3X	TET2
MAPK1	DDX5	TGFBR1
MAX	DEFB134	TMPRSS2
MCL1	DHX9	TP53BP1
MDM2	DNMT1	TP73
MED12	EIF4A2	TRAF7
MEN1	ELF3	UVRAG
MET	ELOC	WRN
MLH1	EPHA2	XBP1
MSH2	ERCC2	XPO1
MSH6	ERCC3	ZFHX3
MTOR	ERCC4	ZFP36L1
MUTYH	ERCC5	ZMYM2
MYB	ETV1	ZMYM3
MYC	ETV4	ZNF703
MYCN	ETV5	ZNF750
NBN	FANCA	NAB2
NF1	FANCC	SLC34A2
NF2	FANCD2	MITF
NFE2L2	FANCE	GATA2
NOTCH1	FANCF	PTPRT
NOTCH2	FANCG	FOXO4
NOTCH3	FANCL	PCM1
NOTCH4	FANCM	PATZ1
NPM1	FAT1	GPC3
		RNF213