

GeneTrails® Comprehensive Solid Tumor Panel Gene List

**Genes denoted by an asterisk are screened primarily for hotspot mutations. All coding regions are covered for the remaining genes.

ACN9	CCND1	ERBB2	GLMN	MAP2K4	NTRK2	RAD51B	SPOP
ACVR1	CCND2	ERBB3	GNA11*	MAP3K1	NTRK3	RAD51C	STAG2
ACVRL1	CCND3	ERBB4	GNA14*	MAP3K3	PALB2	RAD51D	STAT3
AKT1*	CCNE1	ERCC2	GNAQ*	MAPK1	PBRM1	RAD52	STK11
AKT2*	CD274	ERCC3	GNAS*	MAPK3	PDCD10	RAD54L	SUFU
AKT3*	CDH1	ERCC5	H3F3A*	MAX	PDCD1LG2	RAF1	TACSTD2
ALK	CDK12	ESR1	H3F3B*	MC1R	PDGFRA	RASA1	TAP1
AMBRA1	CDK4	EZH2	HGF	MDC1	PDGFRB	RB1	TAP2
AMER1	CDK6	FAM175A	HIST1H3B*	MDH2	PIEZO1	RECQL	TAPBP
APC	CDKN1B	FANCA	HIST1H3C*	MDM2	PIK3CA	RET*	TCEB1*
APLNR	CDKN2A	FANCC	HOXB13	MDM4	PIK3CB	RHEB*	TCF4
AR	CELSR1	FANCD2	HRAS	MEN1	PIK3CG	RICTOR	TEK
ARAF	CHD4	FANCE	IDH1*	MET	PIK3R1	RINT1	TERT*
ARID1A	CHEK1	FANCF	IDH2*	MLH1	PLAG1	RIT1	TMEM127
ARID2	CHEK2	FANCG	IDO1	MLH3	PLCB4	RNF139	TOP1
ASF1A	CIC	FANCL	IDO2	MRE11A	PLCG1	RNF43	TP53
ATM	COL2A1	FANCM	IFNGR1	MSH2	PMS1	ROS1	TP53BP1
ATR	CTNNB1*	FAT4	IFNGR2	MSH3	PMS2	RPTOR	TRAF2
ATRX	CUL3	FBXW7	INPP4B	MSH6	POLD1	RRAS	TRAF7
AURKA	CYSLTR2	FGF19	IRF1	MST1R	POLE	SDHA	TRPS1
AXIN1	DAXX	FGF3	JAK1	MTAP	PPM1D*	SDHAF1	TSC1
B2M	DCHS1	FGF4	JAK2	MTOR	PPP2R1A	SDHAF2	TSC2
BAP1	DDR2	FGFR1	KBTBD4*	MUTYH	PPP2R2A	SDHB	TYMS
BARD1	DDX11	FGFR2	KDM6A	MYB	PPP6C	SDHC	VEGFC
BCOR*	DDX3X*	FGFR3	KDR	MYBL1	PRKAR1A	SDHD	VHL
BRAF	DGCR8	FGFR4	KEAP1	MYC	PRKCA*	SETD2	XRCC1
BRCA1	DICER1	FH	KIF11	MYCN	PRSS1*	SF3B1*	YAP1
BRCA2	DROSHA	FLT4	KIF1B	MYOD1	PSMB5	SMAD4	YES1
BRD4	EGFR	FOXA1	KIT*	NBN	PTCH1	SMARCA2	ZNRF3
BRIP1	EGLN1	FOXC2	KLF4	NDUFAB1	PTEN	SMARCA4	
BUB1B	EGLN2	FUBP1	KRAS	NF1	PTPN11	SMARCB1	
C11orf30	EIF1AX	GATA2	KRIT1	NF2	PTPN14	SMARCE1	
C6orf57	ELMO2	GATA3	LZTR1	NFE2L2	PTPRB	SMO	
CASP8	ENG	GDF2	MAD2L2	NOTCH1	RAC1*	SOCS1	
CCBE1	EPAS1	GEN1	MAP2K1	NRAS	RAD50	SOX18	
CCM2	EPHB4	GJC2	MAP2K2	NTRK1	RAD51	SPEN	