

NeXT Dx™ Test Gene List

Cancer Genes of Clinical Importance

Single nucleotide variants, small insertions and deletions, copy number alterations, and gene fusions involving the genes below may be reported in the test. Genes for which copy number alteration is assessed are indicated by an asterisk (*). Genes in **BOLD** are those for which FDA approved drugs are available to treat solid tumors as of August 2020 (FDA, oncoKB data).

ABL1*	CD276	ESR1*	GPNMB	MRE11A*	PMS2*	SMC1A
AKAP9	CD40	ESR2	HNF1A	MS4A1	POLE*	SMC3
AKT1*	CDH1	ETV6	HRAS*	MSH2*	PRAME	SMO*
AKT2*	CDH3	EWSR1	HSP90AA1	MSH6*	PRKACA	SRC*
AKT3*	CDK4*	EZH2*	IDH1	MSLN	PSCA	SRSF2
ALK*	CDK6*	FANCA*	IDH2	MTOR	PTCH1*	STAG2
APC*	CDK9	FANCB*	IGF1R	MUTYH*	PTEN*	STAT3*
AR*	CDKN1A*	FANCC*	IKZF1*	MYC*	PTK2	STAT5B*
ARAF	CDKN1B*	FANCD2*	IL2RA	MYCN*	PTPN11	STK11*
AREG	CDKN2A*	FANCE*	JAK1	MYD88	PVRL4	SULT1A1
ARID1A*	CDKN2B*	FANCF*	JAK2*	MYH11	RAD21*	SYK
ASXL1*	CEBPA*	FANCG*	JAK3	NF1*	RAD50*	TERT*
ATM*	CHEK1*	FANCI*	KDM6A*	NF2*	RAD51*	TET2*
ATR*	CHEK2*	FANCL*	KDR*	NFE2L2	RAD51B*	TGFBR1
ATRX*	CREBBP	FANCM*	KIT*	NKX2-1*	RAD51C*	TGFBR2
AURKA*	CRKL*	FBXW7*	KLB	NOTCH1	RAD51D*	TMPRSS2
AXL*	CRLF2	FCER2	KMT2A	NOTCH2	RAF1*	TNFRSF4
BAP1*	CRTC1	FGF19*	KRAS*	NPM1*	RARA	TNFRSF8
BCL2*	CSF1R	FGF2*	LAG3	NRAS*	RB1*	TP53*
BCL6*	CSF3R	FGFR1*	MAGEA3	NTRK1*	RBM15	TSC1*
BCOR	CTAG2	FGFR2*	MAGEA4	NTRK2	RET*	TSC2*
BCORL1	CTLA4	FGFR3*	MAP2K1	NTRK3	RICTOR*	U2AF1
BCR*	CTNNB1	FGFR4*	MAP2K2	NUP214	ROS1*	VEGFA
BRAF*	CUX1*	FH	MAP2K4*	PALB2*	RPN1	VEGFB
BRCA1*	DDR2*	FLCN	MAP3K1*	PARP1	RUNX1*	VHL*
BRCA2*	DEK	FLT1*	MAPK1*	PDCD1	RUNX1T1	WEE1
BRIP1*	DKK1	FLT3*	MCL1*	PDCD1LG2*	SDHB	WT1*
BTK	DLL3	FLT4*	MDM2*	PDGFRA*	SDHC	XPO1
CALR	DNMT3A	FOLR1	MDM4*	PDGFRB	SDHD	XRCC1*
CBFB	EGFR*	FOXL2	MECOM	PGR	SETBP1	YES1*
CBL*	EML4	FYN	MEN1*	PIK3CA*	SF3B1	ZRSR2
CCND1*	EP300	GATA1	MET*	PIK3CB*	SHH	
CCND2*	EPCAM	GATA2	MKL1	PIK3CD	SLX4*	
CCND3*	ERBB2*	GNA11	MLH1*	PIK3CG	SMAD4*	
CCNE1*	ERBB3*	GNAQ	MLLT3	PIK3R1*	SMARCA4*	
CD274*	ERBB4	GNAS	MPL	PML	SMARCB1*	



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Personalis NeXT Dx™ Test: This laboratory developed test (LDT) will be performed in a CLIA/CAP accredited laboratory. The test was developed and its performance characteristics determined by the Personalis Clinical Laboratory. It has not been cleared or approved by the United States Food and Drug Administration (FDA). The Personalis Clinical Laboratory is regulated under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) as qualified to perform high-complexity clinical testing.

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