

About Guardant360[®] (700+ genes)

Guardant360[®] is a comprehensive liquid profiling test that interrogates 739 genes and includes TMB, MSI status, and methylation-based tumor fraction.

Test Specifications

Sample input	Sample specifications	Turnaround time
Two 10 mL tubes of whole blood	Do not freeze or refrigerate. Ship same or next day at room temperature	<10 days from sample receipt to results*

Performance Specifications

Alterations	Limit of Detection at 95% Sensitivity [†]	Specificity	Threshold for Positivity [‡]
SNVs	0.20%	≥99.9%	≥0.001%
Indels	0.26%	≥99.9%	≥0.01%
CNAs	2.46 copies	≥99.9%	≥2.16 copies
Fusions/Rearrangements	0.15%	≥99.9%	≥2 unique molecules
MSI-High	0.05%	≥99.9%	—
Tumor Fraction	0.05%	—	—
TMB	≥0.3% [§]	—	—

*Average turnaround time from sample receipt to results.

[†]Limit of detection (LoD) defined as the allele fraction/copy number at which the test has a 95% probability of detection for oncogenic variants and genes with relevance in guidelines, drug labels, and clinical trials.

[‡]Indicates mutant allele fraction for detected SNVs and Indels.

[§]Tumor mutation burden (TMB) evaluable at or above a sample allele fraction of 0.3%.

CNA: Copy Number Amplification; MSI: Microsatellite Instability; SNV: Single Nucleotide Variant.



Gene Panel

MSI status - Qualitative result

TMB - Mutations per megabase

Tumor fraction - Percent for all indications

ABCB1	BTG1	CUX1	ERCC6L2	FZD10	INTS6L	MLH1	PCBP1	QKI	SLC34A2	TNPO1
ABL1	BTG2	CWC22	ERCC8	FZD2	IRF1	MLH3	PCBP2	RAB35	SLFN11	TOP1
ABL2	BTK	CXCR4	EREG	FZD3	IRF2	MLST8	PCDH15	RAC1	SLIT2	TOP2A
ABRAXAS1	BUB1B	CYLD	ERF	FZD4	IRF4	MPL	PDCD1	RAD18	SMAD2	TOPAZ1
ACVR1	C9orf78	CYP17A1	ERG	FZD5	IRS2	MRAS	PDCD1LG2	RAD21	SMAD3	TP53
ACVR1B	CALR	CYP19A1	ERRF1	FZD6	JAK1	MRE11	PDE7A	RAD50	SMAD4	TP53BP1
ACVR2A	CARD11	CYP2C19	ESR1 [#]	FZD7	JAK2	MSH2	PDGFRA [#]	RAD51	SMARCA2	TP63
ADARB2	CASP8	CYP3A4	ETS1	FZD8	JAK3	MSH3	PDGFRB	RAD51B	SMARCA4	TP73
ADGRA2	CASR	DAXX	ETV1	FZD9	JUN	MSH6	PDK1	RAD51C ^{***}	SMARCAL1	TPMT
ADGRG4	CAV1	DCUN1D1	ETV4	GAS6	KAT6A	MTAP ^{***}	PDPK1	RAD51D ^{***}	SMARCB1	TRAF2
AFDN	CBFB	DDIT3	ETV5	GATA1	KAT6B	MTHFR	PHF6	RAD52	SMARCD1	TRAF3
AGGF1	CBL	DDR1	ETV6	GATA2	KDM4A	MTOR	PHLPP1	RAD54L	SMARCE1	TRAF7
AIP	CBLB	DDR2	EWSR1	GATA3	KDM5A	MUTYH	PHLPP2	RAET1E	SMC1A	TRIM24
AKT1	CCAR1	DDX17	EXO1	GATA4	KDM5B	MYB	PHOX2B	RAF1 [#]	SMC3	TRIP13
AKT1S1	CCN6	DDX18	EZH1	GATA6	KDM5C	MYC [#]	PIAS4	RARA	SMO	TSC1
AKT2	CCNA2	DDX27	EZH2	GATA3	KDM6A	MYCL	PIK3C2B	RASA1	SNAIP	TSC2
AKT3	CCNB1	DDX3X	FAAP100	GID4	KDR	MYCN	PIK3CA [#]	RB1 ^{***}	SOCS1	TSHR
ALB	CCND1 [#]	DDX41	FAAP20	GLI1	KEAP1 ^{***}	MYD88	PIK3CB	RBBP6	SOCS3	TSHZ2
ALK [#]	CCND2 [#]	DEPDC5	FAAP24	GNA11	KIN	MYOD1	PIK3CD	RBM10	SOCS1	TYMP
ALOX12B	CCND3	DEPTOR	FANCA	GNA13	KIT [#]	NAB2	PIK3CG	RBMX	SOX10	TYMS
ALOX15B	CCNE1 [#]	DHX15	FANCB	GNAQ	KLF4	NBN	PIK3R1	RECQL	SOX17	TYRO3
ALOX5	CCNE2	DHX16	FANCC	GNAS	KLHL6	NCOR1	PIK3R2	RECQL4	SOX2	UGAF1
AMER1	CD274	DHX36	FANCD2	GPATCH8	KLHL9	NCR1	PIK3R3	RET [#]	SOX9	UBE2T
APC	CD276	DHX9	FANCE	GPC3	KMT2A	NCR3	PIM1	REV3L	SPEN	UGT1A1
APEX1	CD74	DICER1	FANCF	GREM1	KMT2B	NEGR1	PIN1	RGS1	SPOP	UIMC1
APLNLR	CD79A	DIS3L2	FANCG	GRIN2A	KMT2C	NELFE	PKM	RHEB	SRC	ULBP1
AR [#]	CD79B	DLL4	FANCI	GSK3B	KMT2D	NF1	PLCG2	RHOA	SRSF2	ULBP3
ARAF	CDC27	DNAJB1	FANCL	GSTM1	KNSTRN	NF2	PLEKHS1	RHOB	SRY	USP28
ARFRP1	CDC5L	DNMT1	FANCM	GSTP1	KRAS [#]	NFE2L2	PLRG1	RICTOR	SS18	USP7
ARHGAP35	CDC7	DNMT3A	FAS	H3-4	LATS1	NFKBIA	PMS1	RIF1	STAG2	USP9X
ARID1A	CDC73	DNMT3B	FAT1	H3F3A	LGR4	NHEJ1	PMS2	RILPL1	STAT1	VEGFA
ARID1B	CDH1	DOT1L	FBXW7	HACD4	LGR5	NKX2-1	POLA1	RIT1	STAT3	VEGFB
ARID2	CDH6	DPYD	FCGR2A	HDAC2	LGR6	NOTCH1	POLD1	RNASEH2B	STAT4	VHL
ASXL1	CDK11A	DUSP4	FCGR3A	HDAC6	LIG1	NOTCH2	POLE	RNF43	STK11 ^{***}	VIRMA
ATM ^{***}	CDK12 ^{***}	DYNLL1	FEN1	HELQ	LIG4	NOTCH3	POLH	ROBO1	STK19	WBP11
ATMIN	CDK4 [#]	DYRK2	FGF1	HES1	LMO1	NOTCH4	POLQ	ROBO2	STK40	WEE1
ATR	CDK6 [#]	E2F3	FGF10	HEY1	LRP1B	NOVA1	POT1	ROS1 [#]	STN1	WRN
ATRX	CDK7	ECT2L	FGF12	HEYL	LRP2	NPM1	POU2F2	RPA1	SUFU	WT1
AURKA	CDK8	EFTUD2	FGF14	HGF	LRP5	NPRL2	PPARG	RPS27A	SYK	WWP1
AURKB	CDKN1A	EGFR [#]	FGF19	HNF1A	LRP6	NPRL3	PIIG	RPS6KA3	SYNCRIP	XBP1
AURKC	CDKN1B	EIF1AX	FGF2	HNRNPDL	LTK	NRAS	PPM1D	RPS6KB1	TACSTD2	XPA
AXIN1	CDKN1C	EIF4A4	FGF23	HOXB13	LYN	NRG1 [#]	PPP2CA	RPS6KB2	TAF1L	XPC
AXIN2	CDKN2A ^{***}	EIF4A2	FGF3	HRAS	LZTR1	NSD1	PPP2R1A	RPTOR	TAP1	XPO1
AXL	CDKN2B	EIF4A3	FGF4	HSD3B1	MAD2L2	NSD2	PPP2R2A	RRAGC	TAP2	XRCC1
B2M	CDKN2C	EIF4B	FGF5	HSP90AA1	MALT1	NSD3	PPP3CA	RSPO1	TAPBP	XRCC2
BABAM1	CEBPA	EIF4E	FGF6	ICOSLG	MAP2K1	NSRP1	PPP6C	RSPO2	TBC1D7	XRCC3
BABAM2	CELF4	EIF4E2	FGF7	ID3	MAP2K2	NTHL1	PRDM1	RSPO4	TBX3	XRCC4
BAP1	CEP295	ELAVL1	FGF8	IDH1	MAP2K4	NTRK1 [#]	PREX1	RUNX1	TCERG1	XRCC5
BARD1	CFAP20	ELAVL2	FGF9	IDH2	MAP3K1	NTRK2 [#]	PREX2	RUNX1T1	TCF7L2	XRCC6
BCL2	CHD4	ELF3	FGFR1 [#]	IDO1	MAP3K13	NTRK3 [#]	PRKAR1A	RXRA	TEK	YAP1
BCL2L1	CHEK1	ELOC	FGFR2 [#]	IFNG	MAP4K3	NUMA1	PRKCI	RYBP	TEN1	YES1
BCL2L2	CHEK2 ^{***}	EML4	FGFR3 [#]	IFNGR1	MAPK1	NUMB	PRKDC	SAMHD1	TENT5C	ZC3H13
BCL6	CIC	EMSY	FGFR4	IFNGR2	MAPK3	NUP93	PRKN	SDC4	TERT [#]	ZC3H18
BCOR	CMTM4	EP300	FH	IFNW1	MAPKAP1	NUTM1	PRMT5	SDHA	TET1	ZC3H4
BCORL1	CMTM6	EPCAM	FLCN	IGF1	MARK2	P2RY8	PRPF40B	SDHAF2	TET2	ZMYM3
BCR	CNOT3	EPHA3	FLT1	IGF1R	MAX	PABPC1	PRPF4B	SDHB	TFE3	ZNF217
BIRC5	CREBBP	EPHA5	FLT3	IGF2	MCL1	PAK1	PSENEN	SDHC	TFRC	ZNF703
BLM	CRKL	EPHA7	FLT4	IGF2BP3	MDC1	PAK3	PSMB10	SDHD	TGFBF1	ZNRF3
BMPR1A	CRTC1	EPHB1	FOXA1	IGF2R	MDM2	PALB2 ^{***}	PSMB8	SEM1	TGFBR2	ZRSR2
BRAF [#]	CSF1R	ERBB2 [#]	FOXL2	IKBKE	MDM4	PARG	PSMB9	SERPINB3	THRAP3	
BRCA1 ^{***}	CSF3R	ERBB3	FOXO1	IKZF1	MED12	PARP1	PTCH1	SERPINB4	TIA1	
BRCA2 ^{***}	CTC1	ERBB4	FOXP1	IL1R1	MEF2B	PARP2	PTDSS1	SESN2	TIPARP	
BRCC3	CTCF	ERCC1	FRS2	IL2RA	MEN1	PAX3	PTEN ^{***}	SETD2	TMEM127	
BRD2	CTLA4	ERCC2	FUBP1	IL2RB	MERTK	PAX5	PTPN11	SF3B1	TMPRSS2	
BRD3	CTNNA1	ERCC3	FUBP3	IL2RG	MET ^{##}	PAX7	PTPN2	SF3B3	TNFAIP3	
BRD4	CTNNA1	ERCC4	FUS	IL7R	MGA	PAX8	PTPRD	SH2D1A	TNFRSF14	
BRIP1	CUL3	ERCC5	FYN	INHBA	MITF	PAXIP1	PTPRS	SHLD1	TNFRSF1A	
BSG	CUL4A	ERCC6	FZD1	INPP4B	MKKN1	PBRM1	PTPRT	SHLD2	TNK2	

[#]Includes TERT promoter region. [#]Includes CNAs. [#]Includes Fusions/Rearrangements. ^{***}Includes Copy Number Losses.

