BIOPHARMA

Labcorp® Plasma Complete RUO gene list

with optional matched normal analysis

Labcorp Plasma Complete RUO is a comprehensive genomic profiling service for ctDNA that uses next-generation sequencing (NGS) to sequence the full coding region and specific introns of 521 genes to detect small variants and copy number alterations. It includes calculation of microsatellite instability (MSI), blood-based tumor mutational burden (bTMB) and loss of heterozygosity (LOH) genomic signatures.

SNVs and indels (521 genes)											
ABL1	BCL6	CDKN2C	EP400	FGF23	H1-2	KEAP1	MSH6	PBRM1	PTPRT	SHLD1	TLR9
ABL2	BCOR	CEBPA	EPAS1	FGF3	H3-3A	KEL	MST1R	PDCD1	RAC1	SHLD2	TMPRSS2
ABRAXAS1	BCORL1	CHEK1	EPCAM	FGF4	H3-5	KIT	MTAP	PDCD1LG2	RAD21	SLFN11	TNFAIP3
ACVR1	BCR	CHEK2	EPHA2	FGF6	H3C2	KLF4	MTOR	PDGFRA	RAD50	SLX4	TNFRSF14
ACVR1B	BIRC3	CIC	EPHA3	FGFR1	HDAC1	KMT2A	MUTYH	PDGFRB	RAD51	SMAD2	TOP1
ACVR2A	BIRC5	CREBBP	EPHA5	FGFR2	HDAC2	KMT2B	MYB	PDK1	RAD51B	SMAD3	TOP2A
ADGRA2	BLM	CRKL	EPHB1	FGFR3	HDAC6	KMT2C	MYC	PDPK1	RAD51C	SMAD4	TP53
ADORA2A	BMP1	CRLF2	EPHB4	FGFR4	HGF	KMT2D	MYCL	PGR	RAD51D	SMARCA4	TP53BP1
AHCTF1	BMPR1A	CRTC1	ERBB2	FH	HLA-A	KRAS	MYCN	PHF6	RAD52	SMARCB1	TP63
AKT1	BRAF	CSF1	ERBB3	FLCN	HLA-B	LATS1	MYD88	PHOX2B	RAD54L	SMC3	TRAF3
AKT2	BRCA1	CSF1R	ERBB4	FLI1	HLA-C	LATS2	MYOD1	PIK3C2B	RAF1	SMO	TSC1
AKT3	BRCA2	CSF2	ERCC1	FLT1	HNF1A	LRP1B	NBEA	PIK3C2G	RARA	SOCS1	TSC2
ALB	BRD4	CSF3R	ERCC2	FLT3	HOXB13	LTK	NBN	PIK3C3	RASA1	SOX10	TSHR
ALK	BRD7	CTC1	ERCC3	FLT4	HRAS	LYN	NCOA3	PIK3CA	RB1	SOX17	TYRO3
ALMS1	BRIP1	CTCF	ERCC4	FOXA1	HSP90AA1	LZTR1	NCOR1	PIK3CB	RBM10	SOX2	U2AF1
ALOX12B	BTG1	CTLA4	ERCC5	FOXL2	HUWE1	MAD2L2	NF1	PIK3CD	RECQL4	SOX9	UBE2T
AMER1	BTG2	CTNNA1	ERCC6	FOXO1	ID3	MAF	NF2	PIK3CG	REL	SPOP	VEGFA
APC	BTK	CTNNB1	ERCC8	FOXP1	IDH1	MALT1	NFE2L2	PIK3R1	RET	SPTA1	VHL
AR	CALR	CUL3	ERG	FUBP1	IDH2	MAML1	NFKBIA	PIK3R2	REV3L	SRC	VTCN1
ARAF	CARD11	CUL4A	ERRFI1	FZD1	IGF1	MAP2K1	NKX2-1	PIK3R3	RFC1	SRCAP	WAS
ARID1A	CASP8	CXCR2	ESR1	FZD10	IGF1R	MAP2K2	NKX3-1	PIM1	RHEB	SRSF2	WEE1
ARID1B	CBFB	CXCR4	ETV1	FZD2	IGF2	MAP2K4	NOTCH1	PLCG2	RHOA	STAG2	WRN
ARID2	CBL	CYLD	ETV4	FZD3	IGF2R	MAP3K1	NOTCH2	PMAIP1	RICTOR	STAT3	WT1
ARID5B	CCND1	CYP17A1	ETV5	FZD4	IKBKE	MAP3K13	NOTCH3	PMS1	RIF1	STK11	XIAP
ASXL1	CCND2	DAXX	ETV6	FZD5	IKZF1	MAPK1	NOTCH4	PMS2	RIT1	STN1	XPA
ASXL2	CCND3	DDIT3	EWSR1	FZD6	IL10	MAPK3	NPM1	POLD1	RNF43	SUFU	XPC
ATM	CCNE1	DDR1	EXO1	FZD7	IL6ST	MAX	NRAS	POLE	ROS1	SUZ12	XPO1
ATR	CD22	DDR2	EZH2	FZD8	IL7R	MCL1	NSD1	POLG	RPA1	SYK	XRCC1
ATRX	CD274	DICER1	FANCA	FZD9	INHBA	MDC1	NSD2	POLQ	RPS6KA3	TAF1	XRCC2
AURKA	CD276	DIS3	FANCC	GABRA6	INPP4B	MDM2	NSD3	PPARG	RPS6KA4	TBX3	XRCC3
AURKB	CD70	DNMT1	FANCD2	GATA1	INSR	MDM4	NTRK1	PPM1D	RPS6KB2	TCF3	XRCC4
AXIN1	CD79A	DNMT3A	FANCE	GATA2	IRF2	MED12	NTRK2	PPP2R1A	RPTOR	TCF7L2	XRCC5
AXIN2	CD79B	DNMT3B	FANCF	GATA3	IRF4	MEF2B	NTRK3	PPP2R2A	RUNX1	TEK	XRCC6
AXL	CDC73	DOT1L	FANCG	GATA4	IRS1	MEN1	NUP93	PPP6C	RUNX1T1	TEN1	YAP1
B2M	CDH1	E2F3	FANCI	GATA6	IRS2	MERTK	NUTM1	PRDM1	SDHA	TENT5C	YES1
BAP1	CDK12	EED	FANCL	GLI1	JAK1	MET	PAK1	PREX2	SDHAF2	TERC	ZNF217
BARD1	CDK2	EEF1A1	FANCM	GNA11	JAK2	MITF	PAK5	PRKAR1A	SDHB	TERT	ZRSR2
BAX	CDK4	EGFR	FAS	GNA13	JAK3	MLC1	PALB2	PRKDC	SDHC	TET1	
BBC3	CDK6	EIF1AX	FAT1	GNAQ	JUN	MLH1	PARG	PRKN	SDHD	TET2	
BCL10	CDK8	EIF4E	FBXW7	GNAS	KAT6A	MLH3	PARP1	PTCH1	SETBP1	TGFBR1	
BCL2	CDKN1A	ELF3	FGF10	GPC3	KDM5A	MPL	PARP2	PTEN	SETD2	TGFBR2	
BCL2L1	CDKN1B	EML4	FGF12	GREM1	KDM5C	MRE11	PAX5	PTK2	SF3B1	TLR4	
BCL2L11	CDKN2A	EMSY	FGF14	GRIN2A	KDM6A	MSH2	PAX8	PTPN11	SGK1	TLR7	
BCL2L2	CDKN2B	EP300	FGF19	GSK3B	KDR	MSH3	PAXIP1	PTPRD	SH2D1A	TLR8	

Amplifications (38 genes)											
	AXL	CCND2	CDK4	ERBB2	FGF4	FGFR4	MET	MYC	PIK3CA	RB1	
	BRCA1	CCND3	CDKN2A	ERRFI1	FGFR1	KDR	MLC1	MYCN	PIK3CB	VEGFA	
	BRCA2	CCNE1	CDKN2B	FGF19	FGFR2	KIT	MLH1	PALB2	PIK3R1		
	CCND1	CD274	EGFR	FGF3	FGFR3	MDM2	MSH2	PDGFRA	PTEN		

Translocations (21 genes)											
ALK	BRAF	BRCA2	ETV4	EWSR1	FGFR2	NTRK1	NTRK3	PDGFRB	RET	TMPRSS2	
AXL	BRCA1	EGFR	ETV6	FGFR1	FGFR3	NTRK2	PDGFRA	RAF1	ROS1		

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