

## Cancer panel

Amby Lab Cancer panel is designed to explore sequence of 290 cancer-related genes and exonic intervals. These elements are known to be altered in solid cancers based on recent scientific and clinical literature.

Amby Lab identifies alterations in the genes listed below.

GENE LIST									
ACO1	ACVR1B	ACVR2A	ACVR2B	ADNP	AJUBA	AKT1	ALK	ALKBH6	ALPK2
ANK3	APC	APOL2	AR	ARHGAP35	ARID1A	ARID2	ARID5B	ASXL1	ASXL2
ATM	ATP5B	ATR	ATRX	AXIN2	AZGP1	B2M	B4GALT3	BAP1	BCLAF1
BCOR	BHMT2	BRAF	BRCA1	BRCA2	BRE	CAP2	CARD11	CASP8	CBFB
CCDC120	CCDC6	CCND1	CD1D	CD70	CD79B	CDC27	CDH1	CDK12	CDK4
CDKN1A	CDKN1B	CDKN2A	CDKN2C	CEP76	CHD4	CHD8	CHEK2	CNBD1	CNKSRI
COL5A1	COL5A3	CREBBP	CTCF	CTNNB1	CUL4B	CUX1	DDX3X	DDX5	DIAPH1
DIS3	DNAH12	DNER	DNMT3A	EGFR	EGR3	EIF2S2	EIF4A2	ELF3	EP300
EPHA2	EPHA3	EPHB6	ERBB2	ERBB3	ERBB4	ERCC2	EZH1	EZH2	EZR
FAM166A	FAM46C	FAT1	FBXW7	FGFBP1	FGFR2	FGFR3	FLG	FLT3	FOXA1
FOXA2	FRMD7	GATA3	GNA13	GNB1	GNPTAB	GOT1	GPS2	GUSB	H3F3C
HGF	HIST1H1C	HIST1H1E	HIST1H2BD	HIST1H3B	HIST1H4E	HRAS	HSP90AB1	IDH1	IDH2
IL7R	ING1	INPPL1	INTS12	IPO7	IRF4	IRF6	ITGB7	ITPKB	KDM5C
KDM6A	KEAP1	KEL	KIT	KLHL8	KMT2A	KMT2B	KMT2C	KMT2D	KRAS
LCTL	LIFR	LRRK2	MALAT1	MAP2K1	MAP2K4	MAP3K1	MAP4K3	MAPK8IP1	MBD1
MECOM	MED12	MED23	MET	MGA	MICALCL	MIR142	MORC4	MPO	MTOR
MUC17	MXRA5	MYB	MYCN	MYD88	MYOCD	NAV3	NBPF1	NCOR1	NF1
NFE2L2	NFE2L3	NOTCH1	NPM1	NRAS	NSD1	NTN4	NUP210L	ODAM	OMA1
OTUD7A	PAPD5	PBRM1	PCBP1	PDAP1	PDCD2L	PDGFRA	PDSS2	PHF6	PIK3CA
PIK3CG	PIK3R1	PLCG2	POLE	POLQ	POU2AF1	POU2F2	PPM1D	PPP2R1A	PPP6C
PRDM1	PRX	PTEN	PTPN11	QKI	RAB40A	RAC1	RAD21	RASA1	RB1
RBM10	RHEB	RHOA	RIT1	RPL22	RPL5	RPS15	RPS2	RSBN1L	RUNX1
RXRA	SACS	SELP	SEPT12	SERPINB3	SETBP1	SETD2	SETDB1	SF3B1	SGK1
SIN3A	SIRT4	SLC1A3	SLC26A3	SLC44A3	SLC4A5	SMAD2	SMAD4	SMARCA4	SMARCB1
SMC1A	SMC3	SNX25	SOS1	SOX17	SOX9	SPEN	SPOP	SRSF2	STAG2
STK11	STX2	TAF1	TBC1D12	TBL1XR1	TBX3	TCEB1	TCF7L2	TCP1L2	TDRD10
TET2	TGFBR2	TIMM17A	TLR4	TNFRSF14	TP53	TP53BP1	TPX2	TRAF3	TRIM23
TSC1	TSHZ2	TSHZ3	TTLL9	TXNDC8	U2AF1	USP9X	VEZF1	VHL	WASF3
WT1	XIRP2	XPO1	ZFHX3	ZNF180	ZNF471	ZNF483	ZNF620	ZNF750	ZRANB3