

Designed to Duo More

Unleash the full potential of every sample with the Avida cancer panels.



The Agilent Avida DNA cancer panels are optimized for sensitive and innovative target enrichment applications such as liquid biopsy and multiomics sequencing.

Flexible, automation-ready DNA panels may be used with the Avida DNA reagent kit or the Avida Duo workflow when matched with the Avida Methyl 3400 DMR Cancer panel. Achieve efficient, optimized sequencing of liquid biopsy samples with the 345 kb Avida DNA Expanded Cancer Panel, which targets 105 cancer-associated genes with either hotspot only or exon coverage. Alternatively, get optimal recovery from a limited sequencing budget by targeting a subset of highly relevant cancer genes from the expanded panel in the Avida DNA Focused Cancer Panel (27 kb). The 2.7Mb Avida DNA Discovery Cancer Panel, covering over 680 genes, enables broad identification and assessment of biomarkers across various cancer types, targeting key somatic mutations for translational research.

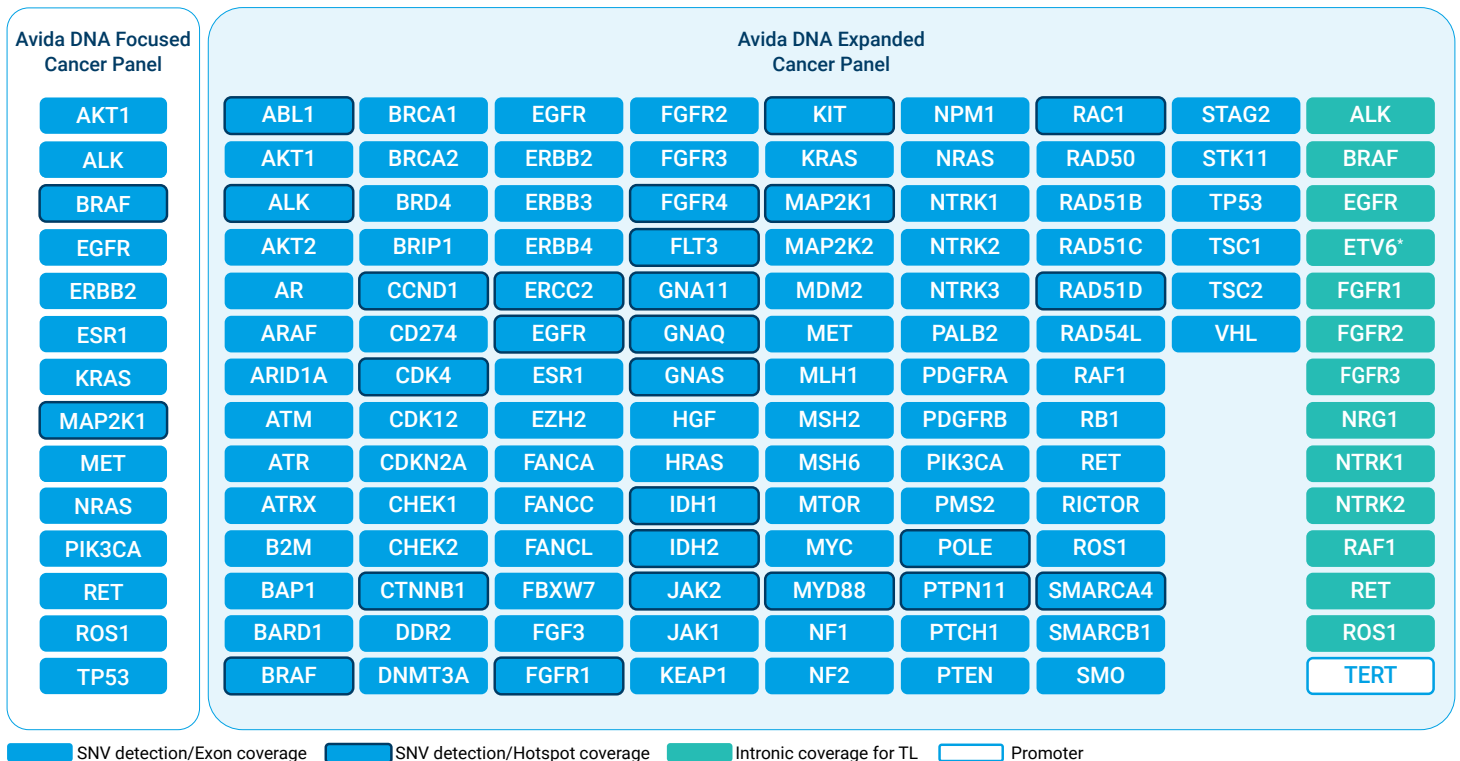


Figure 1. Genes covered in the Avida DNA Expanded and Focused panels. Exon, hotspot, intronic, and promoter coverage is indicated for each gene in the figure above. Note: ETV6 coverage for ETV6:NTRK3 detection.

Avida Discovery Cancer Panel

SNVs:																				CNVs:	Translocations:
ABL1	B2M	CD38	CSF3R	EIF4E	FANCG	GABRA6	HIST2H3D	IRS2	MAP3K13	MYD88	PARP1	PNRC1	RAD51B	SDHB	STAG1	TNFRSF14	ZNF750	ALK	ALK		
ABL2	BAP1	CD44	CSNK1A1	ELAC2	FANCI	GATA1	HIST3H3	JAK1	MAP3K14	MYH9	PARP2	POLD1	RAD51C	SDHC	STAG2	TOP1	ZRSR2	AR	BRAF		
ABR	BAR1	CD58	CTCF	ELF3	FANCL	GATA2	HLA-A	JAK2	MAP3K4	MYO1	PARP3	POLE	RAD51D	SDHD	STAT1	TOP2A	BAR1	CIC			
ACVR1	BB3	CD70	CTLA4	EML4	FANCM	GATA3	HLA-B	JAK3	MAP3K7	NAB2	PAX3	POLQ	RAD52	SERPINB3	STAT3	TP53	BRAF	EGFR			
ACVR1B	BCL10	CD74	CTNNA1	EP300	FAS	GATA4	HLA-C	JUN	MAPK1	NBN	PAX5	POT1	RAD54L	SERPINB4	STAT4	TP53BP1	BRCA1	FGFR1			
ACVR2A	BCL2	CD79A	CTNNB1	EPCAM	FAT1	GATA6	HNF1A	KAT6A	MAPK3	NCOA2	PAX7	PPARG	RAF1	SETBP1	STAT5A	TP63	BRCA2	FGFR2			
ADGRA2	BCL2L1	CD79B	CTRC	EPHA2	FBXO11	GEN1	HNRNP	KDM5A	MAX	NCOA3	PAX8	PPM1D	RANBP2	SETD2	STAT5B	TP73	BRIP1	FGFR3			
AJUBA	BCL2L11	CDC73	CUL3	EPHA3	FBXW7	GID4	HOXB13	KDM5C	MBD1	NCOR1	PBRM1	PPP2R1A	RARA	SF3B1	STAT6	TRAF2	CCND1	NTRK1			
AKAP9	BCL2L2	CDH1	CUL4A	EPHA5	FGF1	GLI1	HOXC6	KDM6A	MBD4	NCOR2	PCBP1	PPP2R2A	RASA1	SGK1	STK11	TRAF3	CCND2	RAF1			
AKT1	BCL6	CDK12	CUL4B	EPHA7	FGF10	GNA11	HRAS	KDR	MCTR	NEGR1	PDCD1	PPP4R2	RB1	SH2B3	STK40	TRAF7	CCNE1	RET			
AKT2	BCOR	CDK2	CUX1	EPHB1	FGF12	GNA13	HSD3B1	KEAP1	MCL1	NF1	PDCD1LG2	PPP6C	RBM10	SH2D1A	SUFU	TSC1	CD274	ROS1			
AKT3	BCORL1	CDK4	CXCR4	EPHB2	FGF14	GNAI2	HSP90AA1	KEL	MDC1	NF2	PDGFRA	PRAME	RECQL4	SHQ1	SUZ12	TSC2	CDK4	TP53			
ALK	BCR	CDK6	CYLD	EPHB4	FGF19	GNAQ	ICOSLG	KIAA1549	MDM2	NFE2L2	PDGFRB	PRC1	REL	SIN3A	SYK	TSHR	CDK6				
ALOX12B	BIRC2	CDK7	CYP17A1	ERBB2	FGF2	GNAS	ID3	KIF5B	MDM4	NFKB2	PDK1	PRDM1	REST	SLC34A2	TAF1	TYR	CDKN2A				
ALOX15B	BIRC3	CDK8	DAXX	ERBB3	FGF23	GPC3	IDH1	KIT	MECOM	NFKB1A	PDPK1	PREX2	RET	SLIT2	TAF3	TYRO3	EGFR				
AMER1	BLM	CDKN1A	DCUN1D1	ERBB4	FGF3	GPS2	IDH2	KLF2	MED12	NKX2-1	PGR	PRKAR1A	RFWD2	SLX4	TAP1	U2AF1	ERBB2				
ANKRD11	BMP1A	CDKN1B	DDR1	ERCC1	FGF4	GRB2	IDO1	KLF4	MEF2B	NKX3-1	PHF6	PRKCI	RFK5	SMAD2	TAP2	UGT1A1	FGFR1				
ANKRD26	BRAF	CDKN1C	DDR2	ERCC2	FGF5	GREM1	IDO2	KLHL6	MEN1	NLR5	PHOX2B	PRKDC	RFKAP	SMAD3	TAPBP	UVRAG	FGFR2				
APC	BRCA1	CDKN2A	DDX3X	ERCC3	FGF6	GRIN2A	IFNGR1	KMT2A	MERTK	NOTCH1	PIAS3	PRSS1	RHEB	SMAD4	TBL1XR1	VEGFA	FGFR3				
APLN	BRCA2	CDKN2B	DDX41	ERCC4	FGF7	GRM3	IFNGR2	KMT2B	MET	NOTCH2	PIAS4	PRSS8	RHOA	SMARCA4	TBX3	VHL	KEAP1				
AR	BRD4	CDKN2C	DDX5	ERCC5	FGF8	GSK3B	IGF1	KMT2C	MGA	NOTCH3	PIK3C2B	PSIP1	RICTOR	SMARCB1	TCEB1	VTCN1	KRAS				
ARAF	BRIP1	CEBPA	DEFB134	ERG	FGF9	H3F3A	IGF1R	KMT2D	MGMT	NOTCH4	PIK3C2G	PSMA1	RIT1	SMARCD1	TCF12	WHSC1	MDM2				
ARFRP1	BTG1	CENPA	DHX15	ERRF1	FGFR1	H3F3B	IGF2	KRAS	MITF	NPM1	PIK3C3	PSMB5	RNA5EL	SMARCE1	TCF3	WHSC1L1	MET				
ARHGAP26	BTG2	CFTR	DHX9	ESR1	FGFR2	H3F3C	IKBKE	LAMP1	MKNK1	NR3C1	PIK3CA	PSMD1	RNF43	SMC1A	TCF7L2	WISP3	MYC				
ARHGAP35	BTK	CHD2	DICER1	ESR2	FGFR3	HDAC1	IKZF1	LATS1	MLH1	NRAS	PIK3CB	PSMG2	ROS1	SMC3	TEK	WRN	MYCN				
ARID1A	C11ORF30	CHD4	DIS3	ETS1	FGFR4	HGF	IKZF3	LATS2	MLL3	NRG1	PIK3CD	PTCH1	RPL22	SMG1	TERC	WT1	PALB2				
ARID1B	CALR	CHD8	DIS3L2	ETV1	FHFLCN	HIF1A	IL10	LMO1	MPL	NSD1	PIK3CG	PTEN	RPL5	SMO	TERT	XPB1	PIK3CA				
ARID2	CARD11	CHEK1	DLX1	ETV4	FLCN	HIST1H1C	IL6R	LRP1B	MRE11A	NT5C2	PIK3R1	PTK2	RPS6KA4	SNCAIP	TET1	XIAP	PTEN				
ARID5B	CASP8	CHEK2	DNAJB1	ETV5	FLI1	HIST1H2BD	IL6ST	LTK	MSH2	NTHL1	PIK3R2	PTPN11	RPS6KB1	SOCS1	TET2	XPO1	RAD51C				
ASXL1	CASR	CIC	DNMT1	ETV6	FLT1	HIST1H3A	IL7R	LYN	MSH3	NTRK1	PIK3R3	PTPRD	RPS6KB2	SOS1	TET3	XRCC2	RAD51D				
ASXL2	CBFB	CIITA	DNMT3A	EWSR1	FLT3	HIST1H3B	ING1	LZTR1	MSH6	NTRK2	PIM1	PTPRO	RPTOR	SOX10	TFE3	YAP1	STK11				
ATM	CBL	CKS1B	DNMT3B	EZH2	FLT4	HIST1H3C	INHA	MAF	MST1	NTRK3	PIM2	PTPRS	RRM1	SOX17	TFEB	YES1	TP53				
ATR	CEBLB	COL17A1	DOT1L	EZR	FOXA1	HIST1H3D	INHBA	MAGEC3	MST1R	NUP93	PIM3	PTPRT	RSPO2	SOX2	TFRC	ZBTB2					
ATRX	CCND1	CPA1	DPYD	FAM175A	FOXA2	HIST1H3E	INPP4A	MAGI2	MTAP	NUTM1	PLCG1	QKI	RUNX1	SOX9	TGFBF1	ZBTB7A					
AURKA	CCND2	CRBN	E2F3	FAM46C	FOXL2	HIST1H3F	INPP4B	MALT1	MTOR	P2RY8	PLCG2	QSER1	RUNX1T1	SPEN	TGFBF2	ZFH3					
AURKB	CCND3	CREBBP	EED	FANCA	FOXO1	HIST1H3G	INSR	MAML2	MUTYH	PAK1	PLK2	RAB35	RXRA	SPINK1	TIPARP	ZFP36L1					
AURKC	CCNE1	CRKL	EGFL7	FANCC	FOXP1	HIST1H3H	IRF1	MAP2K1	MYB	PAK3	PMAIP1	RAC1	RYBP	SPOP	TLR4	ZMYM2					
AXIN1	CD22	CRLF2	EGFR	FANCD2	FRS2	HIST1H3I	IRF2	MAP2K2	MYC	PAK7	PML	RAD21	SDC4	SPTA1	TMEM127	ZMYM3					
AXIN2	CD274	CSAD	EIF1AX	FANCE	FUBP1	HIST1H3J	IRF4	MAP2K4	MYCL	PALB2	PMS1	RAD50	SDHA	SRC	TPRSS2	ZNF217					
AXL	CD276	CSF1R	EIF4A2	FANCF	FYN	HIST2H3C	IRS1	MAP3K1	MYCN	PARK2	PMS2	RAD51	SDHAF2	SRSF2	TNFAIP3	ZNF703					

Figure 2. Genes covered in the Avida DNA Discovery Cancer panel. Classes of variants covered for each gene is indicated in the figure.

Product Number Description

5280-0049	Avida DNA Focused Cancer Panel, 16 reactions
5280-0050	Avida DNA Focused Cancer Panel, 96 reactions
5280-0051	Avida DNA Focused Cancer Panel, 96 reactions for automated workflow
5280-0046	Avida DNA Expanded Cancer Panel, 16 reactions
5280-0047	Avida DNA Expanded Cancer Panel, 96 reactions
5280-0048	Avida DNA Expanded Cancer Panel, 96 reactions for automated workflow
5280-0040	Avida DNA Discovery Cancer Panel, 16 reactions
5280-0044	Avida DNA Discovery Cancer Panel, 96 reactions
5280-0045	Avida DNA Discovery Cancer Panel, 96 reactions for automated workflow

Learn more at

www.agilent.com/chem/avidacancerpanels

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