

OncoDEEP Genes Panel

OncoDEEP screens the tumours much beyond the usual suspects

NEXT GENERATION SEQUENCING (NGS) - 313 GENES

ABL1	BCL9	CSNK2A1	FBXW7	JAK2	MYC	PIM1	RNF43	STAT3
ACVR1	BCOR	CTNNB1	FGF3	JAK3	MYCL	POLD1	ROS1	STK11
ACVR1B	BIRC2	CTNND1	FGFR1	KDM6A	MYCN	POLE	RPS6KA3	TAF1
ACVR2A	BIRC3	CUL1	FGFR2	KDR	MYD88	PPP2R1A	RPS6KB1	TBL1XR1
AJUBA	BRAF	CUL3	FGFR3	KEAP1	MYO18A	PPP6C	RPTOR	TBX3
AKT1	BRCA1	CYP2C19	FGFR4	KIT	NCOR1	PRKAR1A	RQCD1	TCEB1
AKT2	BRCA2	CYP2D6	FLCN	KNSTRN	NF1	PRKCI	RRAS2	TCF12
AKT3	BRD7	DACH1	FLT1	KRAS	NF2	PRKDC	RUNX1	TCF7L2
ALB	BTG2	DCUN1D1	FLT3	KMT2A	NFE2L2	PSIP1	RUNX1T1	TET2
ALK	BTK	DDR2	FLT4	KMT2B	NKX2-1	PMS2	RXRA	TGFBR2
AMER1	CARD11	DICER1	FOXA1	KMT2C	NKX2-8	PTCH1	SCAF4	TGIF1
APC	CASP8	DNMT3A	FOXA2	KMT2D	NOTCH1	PTEN	SETBP1	THRAP3
APEX1	CBL	DPYD	FOXQ1	LYN	NOTCH2	PTMA	SETD2	TLR4
APLN	CCND1	EEF2	GAS6-AS1	MAGOH	NOTCH3	PTPDC1	SF1	TMSB4X
APOB	CCND2	EGFR	GATA1	MAP2K1	NPM1	PTPN11	SF3B1	TNFAIP3
AR	CCND3	ELF3	GATA2	MAP2K2	NRAS	PTPRC	SIN3A	TOP1
ARAF	CCNE1	EP300	GATA3	MAP2K4	NSD1	PTPRD	SLX4	TOP2A
ARHGAP35	CD44	EPHA2	GATA6	MAP3K1	NTRK1	RAC1	SMAD2	TP53
ARID1A	CD70	EPHA3	GNA11	MAP3K4	NTRK2	RAD21	SMAD4	TPMT
ARID2	CD79B	EPHA5	GNAQ	MAPK1	NTRK3	RAD50	SMARCA1	TRAF3
ARID5B	CDH1	ERBB2	GNAS	MDM2	NUP133	RAD51	SMARCA4	TSC1
ATF7IP	CHD3	ERBB3	H3F3A	MDM4	NUP93	RAD51B	SMARCB1	TSC2
ATM	CHD8	ERBB4	H3F3C	MECOM	PALB2	RAD51C	SMC1A	TSHR
ATP11B	CDK12	ERCC2	HGF	MED12	PAX5	RAD51D	SMC3	TXNIP
ATR	CDK2	ESR1	HIST1H3B	MEN1	PBRM1	RAF1	SMO	U2AF1
ATRX	CDK4	EZH2	HNF1A	MET	PD-1	RARA	SOS1	UGT1A1
ATXN3	CDK6	FANCA	HRAS	MGA	PDGFRA	RASA1	SOX17	UNCX
AURKA	CDKN2A	FANCC	IDH1	MLH1	PDGFRB	RB1	SOX2	USP9X
AXIN1	CDKN2B	FANCD2	IDH2	MPL	PD-L1	RBM10	SOX9	VHL
AXIN2	CEBPA	FANCE	IGF1R	MRE11A	PD-L2	RET	SPOP	WHSC1
B2M	CHD4	FANCF	IL6	MSH2	PIK3CA	RFC1	SPTA1	WT1
BAP1	CHEK2	FANCI	IL6ST	MSH3	PIK3CB	RHEB	SPTAN1	XPO1
BCL2	COL5A1	FANCL	IL7R	MSH6	PIK3CG	RHOA	SRC	ZFHX3
BCL2L1	CREBBP	FAS	INSR	MTOR	PIK3R1	RHOB	SRSF2	
BCL2L11	CSF1R	FAT1	JAK1	MUC6	PIK3R2	RICTOR	STAG2	

xxx : Usual hospitals routine

xxx : New in OncoDEEP V6

xxx : Already in previous version

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GENES LIST BY THERAPY

Useful for targeted therapies :

AKT1	CYP2D6	FGFR1	MAP2K2	RAD51D
ALK	DPYD	FGFR2	MET	RAF1
AR	EGFR	FGFR3	MTOR	RB1
ARID1A	ERBB2	FGFR4	NRAS	RET
BRAF	ERBB3	GNA11	NTRK1	ROS1
BRCA1	ERBB4	GNAQ	NTRK2	SMAD4
CCND1	ESR1	GNAS	NTRK3	SMO
CCNE1	EZH2	HIST1H3B	PALB2	TPMT
CDK4	FANCA	HRAS	PDGFRA	TSC1
CDK6	FANCC	IDH1	PDGFRB	TSC2
CDKN2A	FANCD2	IDH2	PIK3CA	VHL
CDKN2B	FANCE	IGF1R	PTEN	
CHEK2	FANCF	JAK2	RAC1	
CSF1R	FANCI	KIT	RAD51	
CTNNB1	FANCL	KRAS	RAD51B	
CYP2C19	FBXW7	MAP2K1	RAD51C	

Useful for immunotherapies :

ARID2	MSH2	POLD1
B2M	MSH6	POLE
BRD7	PBRM1	PMS2
JAK1	PD-1	PTEN
JAK2	PD-L1	STK11
MLH1	PD-L2	

Useful for PARP inhibitors :

ARID1A	FANCC	FAS
ATM	FANCD2	PALB2
BRCA1	FANCE	RAD51
BRCA2	FANCF	RAD51B
CHEK2	FANCI	RAD51C
FANCA	FANCL	RAD51D

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THE NEW VERSION OF ONCODEEP

4 TIME MORE GENES & GENES REGIONS

313 genes instead 75 (including strongly enlarged panel of genes for improved TMB and MSI calculation)

MICROSATELLITE INSTABILITY (MSI)

Broad coverage not only on the usual suspects

SINGLE NUCLEOTIDE POLYMORPHISM (SNP)

Unequaled power – Mainly for better immunotherapy selection

FUSION PANEL

OncoDEEP enable detecting broader fusions (NTRK1/2, MET-ex14, EGFRVIII, FGFR1/2/3)