

Bencos IsoSelect Cancer Standard Panel (BCS 400)

Highly Optimized NGS Panel
for Somatic Cancer

Key Features

- More than 400 somatic cancer-related genes.
- Exceptional sensitivity and specificity.
- Analysis results with SNV, InDel, Genomic rearrangement, CNV, and TMB.
- Maximized cost-effectiveness.

Bencos IsoSelect Cancer Standard Panel (BCS 400)

Bencos IsoSelect Cancer Standard Panel (BCS 400) is designed to detect all types of variants for more than 400 somatic cancer-related genes. With its exceptional sensitivity and specificity, Bencos Healthcare CancerScreen panel offers maximized cost-effectiveness to customers. Bencos Healthcare provides full exclusive bioinformatics support. The generated report consists of the primary, secondary, and tertiary results for the in-depth understanding and interpretation of sequencing data.



SPECIFICATION

Panel	CancerScreen 400
Gene count*	> 400
Covered region	CDS
Target size	> 1120 Kb
Mutation type	SNV, Indel, CNV, Rearrangement, and TMB
Sample type	Blood, Fresh-frozen, and FFPE
Platform	All sequencers from Illumina, Thermo Fisher, and MGI
Bioinformatics Support	<ol style="list-style-type: none"> 1. Primary Analysis: FASTQ to annotated VCF 2. Secondary Analysis: CNV, Large Indel 3. Tertiary Analysis: Clinical interpretation

Gene List

CancerScreen 400

ABL1	ABL2	ADGRA2	AKT1	AKT2	AKT3	ALK	AMER1	APC
APCDD1	APEX1	APOB	APOBEC1	AR	ARAF	ARFRP1	ARID1A	ARID1B
ARID2	ASXL1	ATM	ATP11B	ATR	ATRX	AURKA	AURKB	AXIN1
AXL	B2M	B3GAT1	BACH1	BAP1	BARD1	BCL2	BCL6	BCL9
BCOR	BCR	BIRC2	BIRC3	BLM	BRAF	BRCA1	BRCA2	BRD2
BRD3	BRD4	BRIP1	BTG1	BTK	BTLA	CARD11	CASP5	CASP8
CBFB	CBL	CD274	CDK12	CDK4	CDK6	CDK8	CDKN1A	CDKN1B
CDKN2A	CDKN2B	CDKN2C	CDX2	CEBPA	CHD1	CHD2	CHD4	CHEK1
CHEK2	CHUK	CIC	CRBN	CREBBP	CRKL	CRLF2	CSF1R	CSF2
CSF2RA	CSF2RB	CSNK2A1	CTCF	CTLA4	CTNNA1	CTNNB1	CUL3	CUL4A
CUL4B	CXCL10	CXCL11	CXCL9	CXCR3	CYLD	CYP17A1	DAXX	DCUN1D1
DDR2	DICER1	DIS3	DNMT1	DNMT3A	DOCK2	DOT1L	EGFR	ELMO1
EML4	EMSY	EP300	EPHA3	EPHA5	EPHA6	EPHA7	EPHB1	EPHB4
EPHB6	ERBB2	ERBB3	ERBB4	ERCC1	ERCC2	ERG	ERRF1	ESR1
ETV1	ETV4	ETV5	ETV6	EWSR1	EYA2	EZH2	FANCA	FANCC
FANCD2	FANCE	FANCF	FANCG	FANCI	FANCL	FANCM	FAS	FAT1
FAT3	FBXW7	FGF1	FGF10	FGF12	FGF14	FGF19	FGF2	FGF23
FGF3	FGF4	FGF6	FGF7	FGFR1	FGFR2	FGFR3	FGFR4	FH
FLCN	FLT1	FLT3	FLT4	FOXA1	FOXL2	FOXO3	FOXP3	FRS2
FUBP1	GABRA6	GAS6	GATA1	GATA2	GATA3	GATA4	GATA6	GID4
GLI1	GNA11	GNA13	GNAQ	GNAS	GRIN2A	GRM3	GSK3B	GUCY1A2
GZMA	GZMB	GZMH	H3F3A	HGF	HIST1H3B	HNF1A	HOXA3	HRAS
HSD3B1	HSP90AA1	IDH1	IDH2	IDO1	IDO2	IFITM1	IFITM3	IFNA1
IFNB1	IFNG	IGF1	IGF1R	IGF2	IGF2R	IKBKE	IKZF1	IL12A
IL12B	IL2	IL23A	IL6	IL7R	INHBA	INPP4B	INSR	IRF2
IRF4	IRS2	ITGAE	ITK	JAK1	JAK2	JAK3	JUN	KAT6A
KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL	KIT	KLF4	KLHL6
KMT2A	KMT2B	KMT2C	KNSTRN	KRAS	LAG3	LMO1	LRP1B	LRP6
LTK	LYN	LZTR1	MAGI2	MAGOH	MAML1	MAP2K1	MAP2K2	MAP2K4
MAP3K1	MAP3K13	MAPK1	MAX	MCL1	MDM2	MDM4	MED12	MEF2B
MEN1	MET	MITF	MLH1	MPL	MRE11	MSH2	MSH6	MTOR
MUTYH	MYB	MYC	MYCL	MYCN	MYD88	MYO18A	NCOA3	NCOR1
NF1	NF2	NFE2L2	NFKBIA	NOTCH1	NOTCH2	NOTCH3	NOTCH4	NPM1
NRAS	NSD1	NSD3	NTRK1	NTRK2	NTRK3	NUP93	NUTM1	PAK3
PAK5	PALB2	PARP1	PARP2	PARP3	PARP4	PAX5	PBRM1	PDCD1
PDCD1LG2	PDGFRA	PDGFRB	PDK1	PGR	PHF6	PHLPP2	PIK3C2B	PIK3C3
PIK3CA	PIK3CB	PIK3CG	PIK3R2	PKHD1	PLCG1	PLCG2	PMS2	PNP
PNRC1	POLD1	POLE	PPARG	PPP2R1A	PRDM1	PREX2	PRF1	PRKAR1A
PRKCI	PRKDC	PRPF40B	PRSS8	PTCH1	PTCH2	PTEN	PTK2	PTPN11
PTPRC	PTPRD	QKI	RAB35	RAC1	RAC2	RAD17	RAD50	RAD51
RAD52	RAD54L	RAF1	RANBP2	RARA	RB1	RBM10	REL	RET
RHEB	RHOA	RHOB	RICTOR	ROBO1	ROBO2	ROS1	RPA1	RPS6KB1
RPTOR	RUNX1	RUNX1T1	RUNX3	SDHA	SDHB	SDHC	SDHD	SEMA3A
SEMA3E	SET	SETBP1	SETD2	SF3A1	SF3B1	SH2B3	SKP2	SLIT2
SMAD2	SMAD3	SMAD4	SRSF2	SRSF7	STAG2	STAT3	STAT4	TERT
TET2	TP53							

Performance Data

Market-leading performance

The Bencos IsoSelect Cancer Standard Panel (BCS 400) boast market-leading performance with high values in on-target ratio and coverage uniformity, ensuring the accurate detection of genetic mutations occurring in target genes.

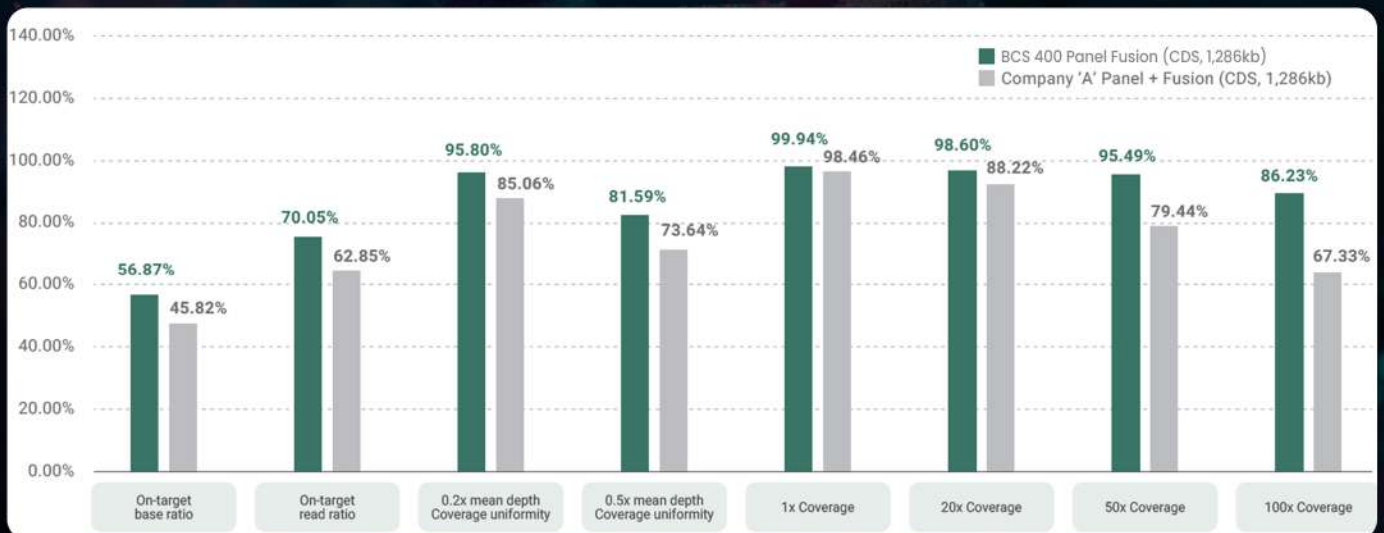


Figure 1: Comparison between BCS 400 and competitor panel.

Higher on-target ratio, uniformity, coverage at 100X compared to competitor product over the target regions.

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