

Core Genes Fusion RNA Panel

iGeneTech Bioscience Co., Ltd.

PRODUCT OVERVIEW

■ Target Size: 582.6 kb ■ Recommended Sequencing Data: 3Gb

Coverage

Select 90 fusion genes related to solid tumors, including coding regions of all transcripts and the UTR regions of selected genes.

Detection range

Fusion, transcript variation and expression, etc.

Applications

Adjuvant diagnosis, medication guidance, and prognostic indication

ADVANTAGES

Comprehensive and precise

-Design target capture regions with all transcripts, based on RNA samples.

Sensitive and efficient

-Efficient capture of target regions, cost-saving and sensitive detection.

Stable and superior

-Stable and excellent performance relying on iGeneTech® TargetSeq® probe hybridization capture technology.

Sensitive and efficient

Customized and semi-customized services (e.g. probe encryption, target region expansion) based on client needs, meeting personalized requirements.

PERFORMANCE

Capture performance

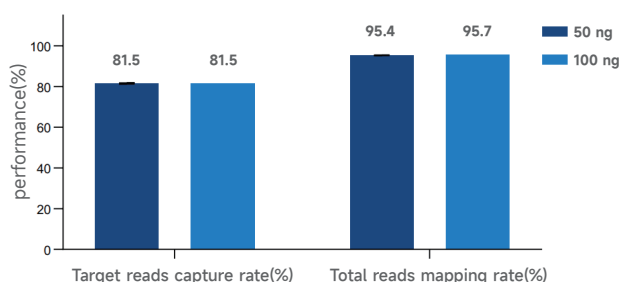


Figure 1. Capture performance of RNA reference standard.

Total RNA was extracted from Seraseq®FFPE Fusion RNA Reference Material v4. Libraries were prepared with 50 ng input RNA using an RNA library construction kit, hybrid-capture-enriched, and then sequenced on an Illumina NovaSeq 6000 platform with 2 × 150 bp paired-end reads.

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Validation of fusion reference standard

Table1. Detection Results of fusion reference standard

Fusion Gene	50 ng Input		100 ng Input	
	Repeat 1	Repeat 2	Repeat 1	Repeat 1
	(Junction/Spawning reads)		(Junction/Spawning reads)	
TPRSS2 - ERG	352	141	274	281
KIF5B - RET	456	212	463	266
SLC45A3 - BRAF	370	188	291	253
FGFR3 - TACC3	439	252	384	247
FGFR3 - BAIAP2L1	366	225	408	195
LMNA - NTRK1	269	163	230	171
TPM3 - NTRK1	277	125	262	163
CD74 - ROS1	219	128	246	130
NCOA4 - RET	265	101	178	126
ETV6 - NTRK3	208	84	135	103
CCDC6 - RET	134	84	103	68
TFG - NTRK1	162	118	151	62
EML4 - ALK	198	101	182	52
SLC34A2 - ROS1	106	88	135	51
EGFR - SEPT14	112	63	113	18
PAX8 - PPARG	335	142	305	6
MET exon14 skipping	1360	1357	1327	975
EGFR Variant III	606	432	436	470

GENELIST

Cover all the transcripts of 90 fusion genes

ABL1*†	ALK	BCL2†	BCOR*†	BRAF	BRD4*	CCDC6	CCND1	CIC†	COL1A1
CRTC1	DDIT3	DNAJB1	EGFR	EML4	EPC1	ERBB2†	ERG*	ETV1*	ETV4
ETV6*	EWSR1	EZR	FGFR1	FGFR2	FGFR3	FGR*	FUJ1	FLT3	FOXO1
FUS	GLI1	HMG2	JAK2*	JAZF1	KIAA1549	KMT2A	LPP	MAML2	MAST1
MAST2	MET*	MLL3	MYB	MYC	NAB2	NCOA1*	NCOA2*	NCOA4	NOTCH1
NOTCH2	NR4A3*	NRG1	NTRK1	NTRK2	NTRK3	NUTM1	PAX3	PAX5	PAX7
PAX8	PBX1	PDGFB	PDGFRA	PDGFRB†	PHF1	PIK3CA*	PLAG1*	PPARG*	PRKACA
RAF1	RARA*	RET	ROS1	RUNX1	SLC45A3	SS18	SSX1	SSX2	STAT6
SLU12	TAF15	TCF3	TFE3	TFEB	TFG	TPRSS2*†	TP53*	USP6*	YWHAE*

PRODUCT INFORMATION

Product Name	Spec.	Cat.
Core Genes Fusion RNA Panel	24/96 rxn	PH2000595/PH2000592
IGT® Fast Stranded RNA Library Prep Kit v2.0	96 rxn	C10032
IGT® Adapter & UDI Primer 1-96*	96*1 rxn	C10042
TargetSeq One® Hyb & Wash Kit v3.0*	24/96 rxn	C11534/C11532
TargetSeq® Eco Universal Blocking Oligo*	24/96 rxn	C80504/C80502
TargetSeq® Cap Beads & Nuclease-Free Water*	5 mL each	C10422

*IGT® can provide kits compatible with Illumina, MGIEtc., as well as universal reagents corresponding to each platform.

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