

Serseq[®] Whole Transcriptome RNA Seq Mix

HIGHLIGHTS

INDUSTRY-FIRST
TRANSCRIPTOME
RNA SEQ REFERENCE
MATERIAL FOR NOVEL
FUSION RNA BIOMARKER
ANALYSIS

22 PAN-CANCER FUSION
GENES FOR TUMOR
PROFILING NGS ASSAYS

HIGH-QUALITY
MANUFACTURED
REFERENCE MATERIAL
SAVES TIME AND COST
PROCURING SAMPLES
OR PRODUCING
HOMEBREW REAGENTS
WITH SPECIFIC VARIANTS

ABOUT LGC SERACARE

TRUSTED SUPPLIER
TO THE DIAGNOSTIC
TESTING INDUSTRY FOR
OVER 30 YEARS

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INFORMATION, PLEASE
VISIT OUR WEBSITE:
WWW.SERACARE.COM

Whole transcriptome RNA sequencing allows the analysis of fusion genes with (potential) clinical utility that currently cannot be detected using the limited genomic coverage of targeted NGS panels. Additionally, some clinical cancer testing labs are evaluating whole transcriptome panels for improved diagnostic yields and clinical utilization for NGS-based tumor profiling test reimbursements. Expanding fusion gene content and higher detection efficiencies will expand use of fusion analysis in clinical NGS applications. Maybe most importantly is that new therapies are targeting fusion genes as clinical biomarkers for treatments of various adult and pediatric cancers.

LGC SeraCare has developed an industry-first whole transcriptome RNA sequencing reference material for analysis of 22 fusion genes with clinical applications in oncology, when analyzed by RNA Seq NGS assays. Such assays provide a comprehensive view of the transcriptome with ability to detect known and novel fusions of clinical utility. This reference material is offered as a purified RNA mix with high titer concentration for all 22 RNA fusion constructs.

Fusion Genes in the Serseq Whole Transcriptome RNA Seq Mix

BCR-ABL1	ETV6-NTRK3	MET ex 14 Skipping	SLC45A3-BRAF
CCDC6-RET	FGFR3-TACC3	NACC2-NTRK2	TCF3-PBX1
CD74-ROS1	KIF5B-RET	NCOA4-RET	TMPRSS2-ERG
EML4-ALK	LMNA-NTRK1 (transcript 1)	PML-RAR α	TPM3-NTRK1
ETV6-ABL1 (transcript 1)	LMNA-NTRK1 (transcript 2)	RUNX1-RUNX1T1	
ETV6-ABL1 (transcript 2)	MEF2D-CSF1R	SLC34A2-ROS1	

FEATURES AND BENEFITS

- Single reference sample multiplexed at 22 clinically-relevant RNA gene fusions.
- Purified RNA format ready for RNA Seq transcriptome sequencing library prep.
- Fusion copies accurately quantitated using digital PCR.
- Fusion constructs blended into total RNA from well-characterized GM24385 cell line as background wild-type material.
- Manufactured in GMP-compliant and ISO 13485-certified facilities.

ORDERING INFORMATION

Product	Material No	Conc.	Fill Volume	Total RNA Size
Serseq Whole Transcriptome RNA Seq Mix	0710-2129	50 ng/ μ l	20 μ l	1 μ g

