

Seraseq[®] FFPE NTRK Fusion RNA Reference Material

COMPREHENSIVE REFERENCE STANDARD FOR NTRK GENE FUSION CLINICAL ASSAYS

HIGHLIGHTS

HIGHLY MULTIPLEXED
REFERENCE MATERIAL
CONTAINING CLINICALLY
SIGNIFICANT RNA FUSIONS

QUANTIFIED TRANSCRIPT
LEVELS ALLOW LIMIT
OF DETECTION STUDIES
TO ESTABLISH ASSAY
SENSITIVITY

HIGH-QUALITY
MANUFACTURED
REFERENCE MATERIAL
PROVIDES CONSISTENT
GROUND TRUTH

INTRODUCTION

Neurotrophic tyrosine receptor kinases (NTRK) can become abnormally fused to other genes, resulting in growth signals that can lead to cancer. Anti-tumor drugs that target NTRK fusions have been shown to be largely effective across many tumor types. Anti-tumor therapeutic drugs that specifically target NTRK fusions in locally advanced or metastatic solid tumors are in various stages of development and clinical trials for patient treatment.

Patient samples bearing NTRK 1/2/3 fusions can be very difficult to source affordably, and a sustainable supply of multiplexed NTRK fusion-positive material is critical to ensuring thorough assay validation and accurate stratification of patients for relevant therapies.

FUSIONS INCLUDED IN THE SERASEQ FFPE NTRK FUSION RNA REFERENCE MATERIAL

TPM3-NTRK1	LMNA-NTRK1	IRF2BP2-NTRK1	SQSTM1-NTRK1
TFG-NTRK1	AFAP1-NTRK2	NACC2-NTRK2	QKI-NTRK2
TRIM24-NTRK2	PAN3-NTRK2	ETV6-NTRK3	BTBD1-NTRK3

FEATURES AND BENEFITS

- 15 representative fusions across all three NTRK genes in a single reference sample
- Full-process FFPE format to evaluate the entire assay workflow
- Fusions precisely quantitated with digital PCR
- Well-characterized GM24385 human genomic RNA as background wild-type material
- Manufactured in GMP-compliant and ISO 13485-certified facilities to ensure manufacturing quality and lot-to-lot consistency

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IN DIAGNOSTIC ASSAY
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FUSIONS AND GENOMIC COORDINATES

Fusion RNA	5' Partner	3' Partner	HGVS Name
TPM3-NTRK1	TPM3 exon 7	NTRK1 exon 9	TPM3{ENST00000368533}:r.1_717_ NTRK1{ENST00000392302}:r.1262_2609
LMNA-NTRK1	LMNA exon 11	NTRK1 exon 11	LMNA {ENST00000368299}:r.1:2015_ NTRK1{ENST00000392302}:r.1318_2609
IRF2BP2-NTRK1	IRF2BP2 exon 1	NTRK1 exon 9	IRF2BP2{ENST00000366609}:r.1_1079_ NTRK1{ENST00000392302}:r.1262_2609
SQSTM1-NTRK1	SQSTM1 exon 5	NTRK1 exon 9	SQSTM1{ENST00000389805}:r.1_932_ NTRK1{ENST00000392302}:r.1262_2609
TFG-NTRK1	TFG exon 5	NTRK1 exon 9	TFG{ENST00000240851}:r.1_920_ NTRK1{ENST00000392302}:r.1262_2609
AFAP1-NTRK2	AFAP1 exon 14	NTRK2 exon 10*	AFAP1{ENST00000420658}:r.1_2170_ NTRK2{ENST00000376214}:r.2098_5608
NACC2-NTRK2	NACC2 exon 4	NTRK2 exon 11*	NACC2{ENST00000371753}:r.1_1314_ NTRK2{ENST00000376214}:r.2134_5608
QKI-NTRK2	QKI exon 6	NTRK2 exon 14*	QKI{ENST00000361752}:r.1_1485_ NTRK2{ENST00000376214}:r.2383_5608
TRIM24-NTRK2	TRIM24 exon 12	NTRK2 exon 13*	TRIM24{ENST00000343526}:r.1_2229_ NTRK2{ENST00000376214}:r.2335_5608
PAN3-NTRK2	PAN3 exon 1	NTRK2 exon 15*	PAN3{ENST00000380958}:r.1_582_ NTRK2{ENST00000376214}:r.2572_5608
ETV6-NTRK3	ETV6 exon 5	NTRK3 exon 14	ETV6{ENST00000396373}:r.1_1283_ NTRK3{ENST00000394480}:r.1719_19984
ETV6-NTRK3	ETV6 exon 5	NTRK3 exon 15	ETV6{ENST00000396373}:r.1_1283_ NTRK3{ENST00000394480}:r.1908_19984
ETV6-NTRK3	ETV6 exon 4	NTRK3 exon 15	ETV6{ENST00000396373}:r.1_737_ NTRK3{ENST00000394480}:r.1908_19984
ETV6-NTRK3	ETV6 exon 4	NTRK3 exon 14	ETV6{ENST00000396373}:r.1_737_ NTRK3{ENST00000394480}:r.1719_19984
BTBD1-NTRK3	BTBD1 exon 4	NTRK3 exon 14	BTBD1{ENST00000261721}:r.1_1065_ NTRK3{ENST00000394480}:r.1719_19984

*These exon numbers correspond to Transcript: NTRK2-201 ENST00000277120.7

SeraCare's portfolio of fusion RNA reference materials saves you time and money with the most comprehensive gene content of any commercially available reference material. Whether developing, validating, or monitoring a clinical NGS fusion RNA assay, SeraCare is your sustainable source of orthogonally validated standards in the formats you need. For more information, **visit www.seracare.com**.

ORDERING INFORMATION

Product	Format	Material #	Size	Volume	Total Mass
SeraSeq FFPE NTRK Fusion RNA Reference Material	Extraction required - FFPE	0710-1031	1 FFPE curl/vial	10 µm	> 400ng



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