

# Seraseq® NTRK Fusion RNA Reference Materials

COMPREHENSIVE REFERENCE STANDARD FOR NTRK GENE FUSION-BASED MOLECULAR ASSAYS

## HIGHLIGHTS

HIGHLY MULTIPLEXED,  
REFERENCE MATERIAL  
CONTAINING CLINICALLY-  
SIGNIFICANT RNA FUSIONS

QUANTIFIED TRANSCRIPT  
LEVELS ALLOW EASY  
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 in many organs of the human body. Anti-tumor drugs that target NTRK fusions have been shown to be largely effective across many tumor types regardless of patient age (adult or pediatric). Anti-tumor therapeutic drugs that specifically targets NTRK fusions in locally advanced or metastatic solid tumors are in various stages of development and clinical trials for patient treatment. Molecular testing of cancer patients for stratification and eligibility for treatment using these drugs will benefit from ground-truth reference materials that serve as positive reference material to inform and guide data quality and accuracy.**

We have developed two versions (purified RNA and FFPE) of the NTRK Fusion material - Seraseq® FFPE NTRK Fusion Reference Material (p/n: 0710-1031) and Seraseq® NTRK Fusion RNA Mix (p/n: 0710-1696) for use as positive reference standards in molecular assay testing (PCR or NGS) of NTRK gene fusions in adult and pediatric cancer patients. Detection of the 15 NTRK fusions in tissue biopsies of cancer patients can support validation of assay results and determine eligibility for anti-tropomyosin receptor tyrosine kinase drug treatment.

## SERASEQ® NTRK FUSION RNA REFERENCE MATERIAL - GENE LIST

#	Fusion	HGVS Name
1	TPM3-NTRK1	TPM3{ENST00000368533};r.1_717_NTRK1{ENST00000392302};r.1262_2609
2	LMNA-NTRK1	LMNA {ENST00000368299};r.1:2015_NTRK1{ENST00000392302};r.1318_2609
3	IRF2BP2-NTRK1	IRF2BP2{ENST00000366609};r.1_1079_NTRK1{ENST00000392302};r.1262_2609
4	SQSTM1-NTRK1	SQSTM1{ENST00000389805};r.1_932_NTRK1{ENST00000392302};r.1262_2609
5	TFG-NTRK1	TFG{ENST00000240851};r.1_920_NTRK1{ENST00000392302};r.1262_2609
6	AFAP1-NTRK2	AFAP1{ENST00000420658.1};r.1_2170_NTRK2{ENST00000376214};r.2098_5608
7	NACC2-NTRK2	NACC2{ENST00000371753};r.1_1314_NTRK2{ENST00000376214};r.2134_5608
8	QKI-NTRK2	QKI{ENST00000361752};r.1_1485_NTRK2{ENST00000376214};r.2383_5608
9	TRIM24-NTRK2	TRIM24{ENST00000343526};r.1_2229_NTRK2{ENST00000376214};r.2335_5608
10	PAN3-NTRK2	PAN3{ENST00000380958};r.1_582_NTRK2{ENST00000376214};r.2572_5608
11	ETV6-NTRK3	ETV6{ENST00000396373};r.1_1283_NTRK3{ENST00000394480};r.1719_19984
12	ETV6-NTRK3	ETV6{ENST00000396373};r.1_1283_NTRK3{ENST00000394480};r.1908_19984
13	ETV6-NTRK3	ETV6{ENST00000396373};r.1_737_NTRK3{ENST00000394480};r.1908_19984
14	ETV6-NTRK3	ETV6{ENST00000396373};r.1_737_NTRK3{ENST00000394480};r.1719_19984
15	BTBD1-NTRK3	BTBD1{ENST00000261721};r.1_1065_NTRK3{ENST00000394480};r.1719_19984

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## FEATURES AND BENEFITS

- 15 clinically-relevant NTRK gene fusions in a single reference sample
- Offered in two formats — FFPE and purified RNA mix.
- 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 facility.

## ORDERING INFORMATION

Product	Format	Material No.	Concentration	Fill Volume	Total Mass
SeraSeq® FFPE NTRK Fusion RNA Reference Material	FFPE	0710-1031	1 FFPE curl	10 µm	>300 ng
SeraSeq® NTRK Fusion RNA Mix	Purified RNA	0710-1696	20 ng/µL	25 µl	500 ng

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

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