



XCeloSeq® Sarcoma Fusion Kit

SEQ014

Product Description

The XCeloSeq Sarcoma Fusion Kit contains a pool of targeted RNA enrichment primers located in conserved fusion partners for identification of both known and unknown fusions from RNA. These primers are designed for use only with XCeloSeq Targeted RNA Core Reagents (GF031). Together they allow for the generation of high quality, high-complexity next-generation sequencing libraries that are suitable for use with Illumina® next-generation sequencing instruments.

Kit Contents

Component	Tube Colour	Cap Colour	Storage	Part Code
Sarcoma Fusion Kit – Outer Pool	Transparent	Orange	-20°C	PC0250
Sarcoma Fusion Kit – Inner Pool	Transparent	Black	-20°C	PC0251

Specifications

Gene Targets	26	
Targeting Primers [%]	146	
Becommended Innut Quantitus*	5-200 ng total FFPE-RNA	
Recommended Input Quantity*	5-100 ng high quality RNA	
Recommended Reads Per Sample	1,500,000	
Hands on Time	2.0 Hours	
Total Protocol Time	7.25 hours	

[%]An additional 8 QC primers are included

*Higher quantities within this range will improve maximum sensitivity. The product supports capture with down to 1.0 ng of RNA, however this is not recommended as it will lead to reduced sensitivity. Cell-free RNA and total cell-free nucleic acids may be used as alternative starting materials, however fusion detection sensitivity will be lower due to cell-free RNA concentrations typically being very low, when using this material maximising starting input quantity will help ensure the best possible results.

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Assay Targets

	Accession		Fusion
Gene		Exon(s)	Direction
ALK	NM_004304	19, 20, 21, 22	5′
CAMTA1	NM_015215	8, 9, 10	5'
CCNB3	NM_033031	2, 3, 4, 5, 6	5′
CIC	NM_015125	19, 20	3'
EPC1	NM_025209	9, 10, 11	3'
EWSR1	NM_005243	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	3'
FOXO1	NM_002015	1, 2, 3	5'
		1, 2, 3	3'
FUS	NM_004960	4, 5, 6, 7, 8, 9, 10, 11, 14	3'
GU1	GLI1	4, 5, 6, 7	5′
GLI1	GLII	4, 5, 6, 7	3'
HMGA2	NM_003483	1, 2, 3, 4, 5	3'
JAZF1	NM_175061	2, 3, 4	3'
MEAF6	NM_001270875	4, 5	3'
MRTFB	NM_014048	11, 12, 13	5'
NCOA2	NM_006540	11, 12, 13, 14	5′
NTRK3	NIN4 002520	4, 7, 10, 12, 13, 14, 15, 16	5'
	NM_002530	13, 14, 15	3'
	NM_001007156	15	5'
PDGFB	NM_002608	2, 3	5'
PLAG1	NM_002655	1, 2, 3, 4	5'
ROS1	NM_002944	31, 32, 33, 34, 35, 36, 37	5'
SS18	NM_001007559	10, 11	5′
		4, 5, 6, 8, 9, 10	3'
STAT6	NM_001178078	1, 2, 3, 4, 5, 6, 7, 16, 17, 18, 19	5′
TAE1E	NM_139215	6, 7	5′
TAF15		5, 6, 7	3'
TCF12	NM_207036	4, 5, 6	3'
TFE3	NM_006521	3, 4, 5, 6	5′
TFG	NM_006070	4, 5, 6, 7	5′
		6	3'
USP6	NM_004505	1, 2, 3	5′
YWHAE	NM_006761	5	3'





Additional Information

Please refer to "XCeloSeq Targeted RNA Enrichment Protocol" for instructions for use.

Limitations of Use

For Research Use Only (RUO)

This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals. SDS sheets relevant to this product are available upon request.