

Serseq® Tumor Fusion RNA v4 Reference Materials

For Research Use Only. Not for use in diagnostic procedures.

These products contain either cells in FFPE or purified total RNA from GM24385 cells mixed with in vitro transcribed RNAs of solid tumor fusion transcripts.

This file lists the genomic coordinates of the fusion breakpoints of the IVT-RNA sequences included in material numbers 0710-0496 and 0710-0497.

RNA Fusion	5' Transcript	5' Partner Exon	5' Breakpoint GRCh37	5' Breakpoint GRCh38	3' Transcript	3' Partner Exon	3' Breakpoint GRCh37	3' Breakpoint GRCh38
CCDC6::RET	NM_005436.5	CCDC6 exon 1	10:61665880	10:59906122	NM_020975.6	RET exon 12	10:43612032	10:43116584
CD74::ROS1	NM_001025159.3	CD74 exon 6	5:149784243	5:150404680	NM_001378902.1	ROS1 exon 35	6:117645578	6:117324415
EGFR Variant III	NM_005228.5	EGFR exon 1	7:55087058	7:55019365	NM_005228.5	EGFR exon 8	7:55223523	7:55155830
EGFR::SEPTIN14	NM_005228.5	EGFR exon 24	7:55268106	7:55200413	NM_207366.3	SEPTIN14 exon 10	7:55863785	7:55796092
EML4::ALK	NM_019063.5	EML4 exon 13	2:42522656	2:42295516	NM_004304.5	ALK exon 20	2:29446394	2:29223528
ETV6::NTRK3	NM_001987.5	ETV6 exon 5	12:12022903	12:11869969	NM_001012338.3	NTRK3 exon 15	15:88483984	15:87940753
FGFR3::BAIAP2L1	NM_000142.5	FGFR3 exon 17	4:1808661	4:1806934	NM_018842.5	BAIAP2L1 exon 2	7:97991744	7:98362432
FGFR3::TACC3	NM_000142.5	FGFR3 exon 17	4:1808661	4:1806934	NM_006342.3	TACC3 exon 11	4:1741429	4:1739702
KIF5B::RET	NM_004521.3	KIF5B exon 24	10:32306071	10:32017143	NM_020975.6	RET exon 11	10:43609928	10:43114480
LMNA::NTRK1	NM_170707.4	LMNA exon 2	1:156100564	1:156130773	NM_002529.4	NTRK1 exon 11	1:156844698	1:156874906
MET ex 14 Skipping	NM_000245.4	MET exon 13	7:116411708	7:116771654	NM_000245.4	MET exon 15	7:116414935	7:116774881
NCOA4::RET	NM_001145263.2	NACC2 exon 7	10:51582939	10:46012883	NM_020975.6	RET exon 12	10:43612032	10:43116584
PAX8::PPARG	NM_003466.4	PAX8 exon 9	2:113992971	2:113235394	NM_138711.6	PPARG exon 3	3:12421203	3:12379704
SLC34A2::ROS1	NM_006424.3	SLC34A2 exon 4	4:25665952	4:25664330	NM_001378902.1	ROS1 exon 35	6:117645578	6:117324415
SLC45A3::BRAF†	NM_033102.3	SLC45A3 exon 1	1:205649522	1:205680394	NM_004333.6	BRAF exon 8	7:140494267	7:140794467
TFG::NTRK1	NM_006070.6	TFG exon 5	3:100451516	3:100732672	NM_002529.4	NTRK1 exon 10	1:156844363	1:156874571
TMPRSS2::ERG¶	NM_005656.4	TMPRSS2 exon 1	21:42880008	21:41508081	NM_004449.4	ERG exon 2	21:39956869	21:38584945
TPM3::NTRK1	NM_152263.4	TPM3 exon 8	1:154142876	1:154170400	NM_002529.4	NTRK1 exon 10	1:156844363	1:156874571

NOTE: Genomic coordinates use the 1-based coordinate system.

†expression of the 3' partner driven by SLC45A3

¶expression of the 3' partner driven by TMPRSS2