



## SeraCare Seraseq® Fusion RNA Mix v4 Synthetic Construct Information

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

This product contains a mixture of in vitro transcribed fusion RNAs with total RNA extracted from GM24385 cell line.

This file lists the chromosomal coordinates corresponding to fusion break points for the in vitro transcribed RNA sequences included in the product.

Coordinates are based upon Human June 2013 (GRCh37.p13) Assembly.

RNA Fusion	5' Partner	5' Partner Chromosome	5' Partner Last Base (Hg19)	3' Partner	3' Partner Chromosome	3' Partner First Base	HGVS Name	COSF
CCDC6-RET	CCDC6 ex 1	10	61665880	RET ex 12	10	43612032	CCDC6{NM_005436.5}:r.1_435_RET{NM_020975.6}:r.2327_5617	COSF1272
CD74-ROS1	CD74 ex 6	5	149784243	ROS1 ex 34	6	117645578	CD74{NM_001025159.2}:r.1_812_ROS1{NM_002944.2}:r.5757_7368	COSF1201
EGFR Variant III	EGFR ex 1	7	55087058	EGFR ex 8	7	55223523	EGFR{NM_005228.5}:r.350_1150del	NA
EGFR-SEPT14	EGFR ex 24	7	55268106	SEPT14 ex 10	7	55863785	EGFR{NM_005228.5}:r.1_3207_SEPT14{NM_207366.3}:r.1200_3752	NA
EML4-ALK	EML4 ex 13	2	42522656	ALK ex 20	2	29446394	EML4{NM_019063.4}:r.1_1763_ALK{NM_004304.4}:r.4125_6265	COSF463
ETV6-NTRK3	ETV6 ex 5	12	12022903	NTRK3 ex 15	15	88483984	ETV6{NM_001987.4}:r.1_1283_NTRK3{NM_001012338.2}:r.1892_3004	COSF572
FGFR3-BAIAP2L1	FGFR3 ex 17	4	1808661	BAIAP2L1 ex 2	7	97991744	FGFR3{NM_000142.4}:r.1_2530_BAIAP2L1{NM_018842.4}:r.315_3682	NA
FGFR3-TACC3	FGFR3 ex 17	4	1808661	TACC3 ex 11	4	1741429	FGFR3{NM_000142.4}:r.1_2530_TACC3{NM_006342.3}:r.2066_2799	NA
KIF5B-RET	KIF5B ex 24	10	32306071	RET ex 11	10	43609928	KIF5B{NM_004521.2}:r.1_3231_RET{NM_020975.6}:r.2070_5617	COSF1263
LMNA-NTRK1	LMNA ex 2	1	156100564	NTRK1 ex 10	1	156844698	LMNA{NM_170707.3}:r.1_762_NTRK1{NM_001012331.1}:r.1290_2647	COSF1654
MET ex 14 Skipping	MET ex 13	7	116411708	MET ex 15	7	116414935	MET{NM_001127500.3}:r.3338_3478del	NA
NCOA4-RET	NCOA4 ex 8	10	51582939	RET ex 12	10	43612032	NCOA4{NM_001145260.1}:r.1_1014_RET{NM_020975.6}:r.2327_5617	COSF1492
PAX8-PPARG1	PAX8 ex 9	2	113992971	PPARG1 ex 3	3	12421203	PAX8{NM_003466.4}:r.1_1253_PPARG{NM_138712.3}:r.246_1892	COSF1217
SLC34A-ROS1	SLC34A2 ex 4	4	25665952	ROS1 ex 34	6	117645578	SLC34A2{NM_006424.2}:r.1_460_ROS1{NM_002944.2}:r.5757_7368	NA
SLC45A3-BRAF	SLC45A3 ex 1	1	205649522	BRAF ex 8	7	140494267	SLC45A3{NM_033102.3}:r.1_109_BRAF{NM_004333.5}:r.1206_4560	COSF872
TFG-NTRK1	TFG ex 5	3	100451516	NTRK1 ex 9	1	156844363	TFG{NM_006070.5}:r.1_851_NTRK1{NM_001012331.1}:r.1234_2647	NA
TPRSS2-ERG	TPRSS2 ex 1 (5' UTR)	21	42870117	ERG ex 2	21	39956869	TPRSS2{NM_005656.3}:r.1_78_ERG{NM_004449.4}:r.124_5042	COSF123
TPM3-NTRK1	TPM3 ex 7	1	154142876	NTRK1 ex 9	1	156844363	TPM3{NM_153649.3}:r.1_794_NTRK1{NM_001012331.1}:r.1234_2647	COSF1329