

Seraseq™ Fusion RNA Mix v2 Breakpoints

Variant	5' Partner	5' Partner Chromosome	5' Partner Last Base (hg19)	3' Partner	3' Partner Chromosome	3' Partner Last Base (hg19)	HGVS Name
EML4-ALK	EML4 exon 13	2	42522655	ALK exon 20	2	29446394	EML4{NM_019063.4}:r.1_1763_ALK{NM_004304.4}:r.4125_6265
KIF5B-RET	KIF5B exon 24	10	32306071	RET exon 11	10	43609928	KIF5B{NM_004521.2}:r.1_3231_RET{NM_020975.4}:r.2070_5617
NCOA4-RET	NCOA4 exon 8	10	51582939	RET exon 12	10	43612032	NCOA4{NM_001145260.1}:r.1_1014_RET{NM_020975.4}:r.2327_5617
CD74-ROS1	CD74 exon 6	5	149784241	ROS1 exon 34	6	117645580	CD74{NM_001025159.2}:r.1_812_ROS1{NM_002944.2}:r.5757_7368
SLC34A2-ROS1	SLC34A2 exon 4	4	25665952	ROS1 exon 34	6	117645582	SLC34A2{NM_006424.2}:r.1_460_ROS1{NM_002944.2}:r.5757_7368
TPM3-NTRK1	TPM3 exon 7	1	154142876	NTRK1 exon 9	1	156844363	TPM3{NM_153649.3}:r.1_794_NTRK1{NM_001012331.1}:r.1234_2637
FGFR3-BAIAP2L1	FGFR3 exon 17	4	1808661	BAIAP2L1 exon 2	7	97991744	FGFR3{NM_001163213.1}:r.1_2530_BAIAP2L1{NM_018842.4}:r.315_3682
PAX8-PPARG1	PAX8 exon 9	2	113992973	PPARG1 exon 3	3	12421205	PAX8{NM_003466.3}:r.1_1253_PPARG{NM_138712.3}:r.246_1892
FGFR3-TACC3	FGFR3 exon 17	4	1808661	TACC3 exon 11	4	1741429	FGFR3{NM_000142.4}:r.1_2530_TACC3{NM_006342.2}:r.2097_2847
ETV6-NTRK3	ETV6 exon 5	12	12022903	NTRK3 exon 15	15	88483989	ETV6{NM_001987.4}:r.1_1283_NT001012338.2}:r.1892_3004
LMNA-NTRK1	LMNA exon 2	1	156100564	NTRK1 exon 10	1	156844698	LMNA{NM_170707.3}:r.1_762_NTRK1{NM_001012331.1}:r.1290_2647
SLC45A3-BRAF	SLC45A3 exon 1	1	205649520	BRAF exon 8	7	140494275	SLC45A3{NM_033102.2}:r.1_109_BRAF{NM_004333.4}:r.1042_2949
TMPRSS2-ERG	TMPRSS2 exon 1 (5' UTR)	21	42880008	ERG exon 2	21	39956875	TMPRSS2{NM_005656.3}:r.1_78_ERG{NM_004449.4}:r.124_5042
EGFR-SEPT14	EGFR exon 24	7	55268106	SEPT14 exon 10	7	55863791	EGFR{NM_005228.3}:r.1_3192_SEPT14{NM_207366.2}:r.1237_3785
MET exon 14 skipping	MET exon 13	7	116411708	MET exon 15	7	116414935	MET{NM_001127500.2}:r.3144_3284del

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