

**S1 Table.** Fusion RNAs present in Seraseq formalin-fixed paraffin-embedded (FFPE) NTRK fusion RNA reference material (BN16)

Fusion RNA	Exon # of junction region	HGVS name
<i>TPM3-NTRK1</i>	T7N10	TPM3{ENST00000368533}:r.1_717_NTRK1{ENST00000392302}:r.1262_2609
<i>LMNA-NTRK1</i>	L11N11	<i>LMNA</i> {ENST00000368299}:r.1:2015_NTRK1{ENST00000392302}:r.1318_2609
<i>IRF2BP2-NTRK1</i>	I1N10	IRF2BP2{ENST00000366609}:r.1_1079_NTRK1{ENST00000392302}:r.1262_2609
<i>SQSTM1-NTRK1</i>	S5N10	SQSTM1{ENST00000389805}:r.1_932_NTRK1{ENST00000392302}:r.1262_2609
<i>TFG-NTRK1</i>	T5N10	TFG{ENST00000240851}:r.1_920_NTRK1{ENST00000392302}:r.1262_2609
<b><i>AFAP1-NTRK2</i></b>	A14N12	<b>AFAP1{ENST00000420658.1}:r.1_2170_NTRK2{ENST00000376214}:r.2098_5608</b>
<b><i>NACC2-NTRK2</i></b>	N4N13	<b>NACC2{ENST00000371753}:r.1_1314_NTRK2{ENST00000376214}:r.2134_5608</b>
<b><i>QKI-NTRK2</i></b>	Q6N16	<b>QKI{ENST00000361752}:r.1_1485_NTRK2{ENST00000376214}:r.2383_5608</b>
<b><i>TRIM24-NTRK2</i></b>	T12N15	<b>TRIM24{ENST00000343526}:r.1_2229_NTRK2{ENST00000376214}:r.2335_5608</b>
<b><i>PAN3-NTRK2</i></b>	P1N17	<b>PAN3{ENST00000380958}:r.1_582_NTRK2{ENST00000376214}:r.2572_5608</b>
<i>ETV6-NTRK3</i>	E5N14	ETV6{ENST00000396373}:r.1_1283_NTRK3{ENST00000394480}:r.1719_19984
<i>ETV6-NTRK3</i>	E5N15	ETV6{ENST00000396373}:r.1_1283_NTRK3{ENST00000394480}:r.1908_19984
<i>ETV6-NTRK3</i>	E4N15	ETV6{ENST00000396373}:r.1_737_NTRK3{ENST00000394480}:r.1908_19984
<i>ETV6-NTRK3</i>	E4N14	ETV6{ENST00000396373}:r.1_737_NTRK3{ENST00000394480}:r.1719_19984
<i>BTBD1-NTRK3</i>	B4N14	BTBD1{ENST00000261721}:r.1_1065_NTRK3{ENST00000394480}:r.1719_19984

Genes not in OCA v3 are shown in bold. Exon numbers correspond to ENST00000392302.6 for NTRK1. Exon numbers correspond to ENST00000376214.5 for NTRK2. Exon numbers correspond to ENST00000394480.6 for NTRK3. NTRK, neurotrophic receptor tyrosine kinase.