

	cBio Portal Patient ID	Diagnosis	Tumor Type	Fusion Partner	Breakpoint	NTRK gene	Breakpoint	Detected by IMPACT	Detected by Archer	IHC Results (1 = Positive; 0 = Negative)	membrane†	perinuclear‡	nuclear‡
1	P-0022467	Anaplastic Thyroid Cancer	Thyroid	IRF2BP2	Exon 1	NTRK1	Exon 10	YES	YES	0	0	0	0
2	P-0027277	Angiosarcoma	Sarcoma	PEAR1	Exon 15	NTRK1	Exon 10	YES	YES	N/A			
3	P-0023994	Breast Invasive Carcinoma	Breast	LMNA	Exon 10	NTRK1	Exon 11	YES	YES	1	0	3	0
4	P-0000104	Breast Invasive Lobular Carcinoma	Breast	ZBTB7B	Exon 4	NTRK1	Exon 12	YES	YES	N/A			
5	P-0029892	Cholangiocarcinoma	Cholangiocarcinoma	PLEKHA6	Exon 14	NTRK1	Exon 10	YES	YES	1	3	0	0
6	P-0003329	Cholangiocarcinoma	Cholangiocarcinoma	LMNA	Exon 2	NTRK1	Exon 12	YES	N/A	1	0	2	1
7	P-0007739	Colon Adenocarcinoma	Colorectal	LMNA	Exon 8	NTRK1	Exon 12	YES	N/A	1	0	3	0
8	P-0014143	Colon Adenocarcinoma	Colorectal	TPM3	Exon 10	NTRK1	Exon 9	YES	YES	1	3	0	0
9	P-0010581	Colon Adenocarcinoma	Colorectal	LMNA	Exon 3	NTRK1	Exon 11	YES	N/A	1	0	0	0
10	P-0013121	Colon Adenocarcinoma	Colorectal	LMNA	Exon 12	NTRK1	Exon 12	YES	YES	1	0	3	0
11	P-0012465	Colon Adenocarcinoma	Colorectal	TPM3	Exon 8	NTRK1	Exon 10	N/A	YES	1	2	0	0
12	P-0016347	Cutaneous Melanoma	Melanoma	TRIM63	Exon 8	NTRK1	Exon 10	YES	YES	1	0	0	0
13	P-0021467	Glioblastoma	Glioma	TPM3	Exon 9	NTRK1	Exon 10	YES	YES	N/A			
14	P-0013559	Glioblastoma	Glioma	AFAP1	Exon 4	NTRK1	Exon 10	YES	YES	1	3	0	0
15	P-0021262	Lung Adenocarcinoma	Lung	F11	Exon 4	NTRK1	Exon 10	YES	YES	1	0	0	0
16	P-0007050	Lung Adenocarcinoma	Lung	TPM3	Exon 8	NTRK1	Exon 12	YES	YES	1	2	0	0
17	P-0010628	Lung Adenocarcinoma	Lung	IRF2BP2	Exon 1	NTRK1	Exon 10	YES	YES	1	0	0	0
18	P-0018082	Lung Adenocarcinoma	Lung	TFG	Exon 5	NTRK1	Exon 9	YES	N/A	N/A			
19	P-0031754	Lung Adenocarcinoma	Lung	EPS15	Exon 21	NTRK1	Exon 10	NO†	YES	1	2	0	0
20	P-0037901	Lung Adenocarcinoma	Lung	EPS15	Exon 21	NTRK1	Exon 10	YES	YES	1	2	0	0
21	P-0029496	Medullary Carcinoma of the Colon	Colorectal	TPM3	Exon 8	NTRK1	Exon 10	N/A	YES	1	0	0	0
22	P-0026354	Melanoma	Melanoma	ARHGGEF11	Exon 40	NTRK1	Exon 12	YES	YES	1	2	0	0
23	P-0003705	Mucinous Adenocarcinoma of the Appendix	Appendiceal	LMNA	Exon 4	NTRK1	Exon 12	YES	YES	1	0	0	0
24	P-0014859	Pancreatic Adenocarcinoma	Pancreatic	CTRC	Exon1	NTRK1	Exon 8	YES	YES	N/A			
25	P-0026375	Papillary Thyroid Cancer	Thyroid	TPM3	Exon 8	NTRK1	Exon 10	YES	YES	1	0	0	0
26	P-0024549	Papillary Thyroid Cancer	Thyroid	TPR	Exon 21	NTRK1	Exon 10	YES	YES	1	0	0	0
27	P-0029326	Papillary Thyroid Cancer	Thyroid	DIAPH1	Exon 26	NTRK1	Exon 10	YES	YES	N/A			
28	P-0027278	Primary Neuroepithelial Tumor	Glioma	KIF21B	Exon 14	NTRK1	Exon 10	YES	YES	N/A			
29	P-0010086	S-100 positive malignant spindle cell neoplasm	Sarcoma	LMNA	Exon2	NTRK1	Exon 11	YES	YES	1	1	2	0
30	P-0013321	Lipofibromatosis-like neural tumor	Sarcoma	TPM3	Exon 7	NTRK1	Exon 10	N/A	YES	1	0	0	0
31	P-0025815	Lipofibromatosis-like neural tumor	Sarcoma	TPM3	Exon 8	NTRK1	Exon 10	YES	YES	1	0	0	0
32	P-0021170	High grade spindle cell sarcoma	Sarcoma	TPM3	Exon 8	NTRK1	Exon 12	YES	YES	1	0	0	0
33	P-0023987	Uterine high grade pleomorphic sarcoma	Sarcoma	TPR	Exon 22	NTRK1	Exon 10	YES	YES	N/A			
34	P-0022925	Low grade sarcoma	Sarcoma	LMNA	Exon 4	NTRK1	Exon 10	YES	N/A	1	0	0	0
35	P-0026177	Malignant spindle cell sarcoma	Sarcoma	LMNA	Exon 2	NTRK1	Exon 11	N/A	YES	N/A			
36	P-0019359	Uterine Sarcoma	Sarcoma	LMNA	Exon 11	NTRK1	Exon 12	YES	YES	1	0	0	3
37	P-0019247	Anorectal Mucosal Melanoma	Melanoma	TRAF2	Exon 9	NTRK2	Exon 15	NO**	YES	1	2	0	0
38	P-0008457	Glioblastoma	Glioma	BCR	Exon 1	NTRK2	Exon 17	NO	YES	1	3	0	0
39	P-0039068	Glioblastoma Multiforme	Glioma	KANK1	Exon 11	NTRK2	Exon 14	NO	YES	1	0	0	0
40	P-0032222	Low grade neuroepithelial neoplasm	Glioma	QKI	Exon 6	NTRK2	Exon 15	N/A	YES	1	0	0	1
41	P-0021124	Lung Adenocarcinoma	Lung	STRN	Exon 3	NTRK2	Exon 16	NO	YES	1	0	0	0
42	P-0013196	Breast Invasive Carcinoma, Secretory	Breast	ETV6	Exon 6	NTRK3	Exon 14	YES	YES	1	0	0	3
43	P-0033921	Breast Invasive Carcinoma, Secretory	Breast	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	1	0	0	2
44	P-0025507	Breast Invasive Ductal Carcinoma	Breast	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	1	0	0	3
45	P-0037044	Breast Invasive Ductal Carcinoma	Breast	SNHG26	Exon 3	NTRK3	Exon 16	YES	YES	0	0	0	0
46	P-0002671	Colon Adenocarcinoma	Colorectal	ETV6	Exon 6	NTRK3	Exon 15	YES	YES	0	0	0	0
47	P-0017925	Colon Adenocarcinoma	Colorectal	EML4	Exon 2	NTRK3	Exon 14	NO	YES	1	0	0	0
48	P-0038638	Colon Adenocarcinoma	Colorectal	EML4	Exon 2	NTRK3	Exon 14	NO	YES	N/A			
49	P-0013664	Infantile Fibrosarcoma	Sarcoma	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	0	0	0	0
50	P-0012463	Glioblastoma	Glioma	EML4	Exon 2	NTRK3	Exon 14	NO**	YES	1	0	0	0
51	P-0027006	Infantile Fibrosarcoma	Sarcoma	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	1	0	0	3
52	P-0003368	Inflammatory Myofibroblastic Tumor	IMT	ETV6	Exon 5	NTRK3	Exon 15	N/A	YES	1	0	0	1
53	P-0008951	Inflammatory Myofibroblastic Tumor	IMT	ETV6	Exon 5	NTRK3	Exon 15	N/A	YES	1	0	0	2
54	P-0014872	Inflammatory Myofibroblastic Tumor	IMT	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	1	0	0	0
55	P-0003670	Lung Adenocarcinoma	Lung	SQSTM1	Exon 5	NTRK3	Exon 14	NO	YES	1	2	0	0
56	P-0013859	Lung Adenocarcinoma	Lung	RBPMS	Exon 5	NTRK3	Exon 14	NO	YES	0	0	0	0
57	P-0027671	Spitzoid melanoma	Melanoma	KANK1	Exon 2	NTRK3	Exon 14	N/A	YES	N/A			
58	P-0004737	Pancreatic Adenocarcinoma	Pancreatic	ETV6	Exon 5	NTRK3	Exon 13	YES	N/A	N/A			
59	P-0010264	Pancreatic Adenocarcinoma	Pancreatic	ETV6	Exon 5	NTRK3	Exon 13	YES	N/A	N/A			
60	P-0023215	Pancreatic Adenocarcinoma	Pancreatic	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	N/A			
61	P-0035552	Pancreatic Adenocarcinoma	Pancreatic	ETV6	Exon 4	NTRK3	Exon 14	YES	YES	N/A			
62	P-0035767	Pancreatic Neuroendocrine Tumor	Neuroendocrine	ETV6	Exon 5	NTRK3	Exon 15	YES	YES	N/A			
63	P-0005935	Papillary Thyroid Cancer	Thyroid	ETV6	Exon 5	NTRK3	Exon 14	N/A	YES	0	0	0	0
64	P-0021795	Papillary Thyroid Cancer	Thyroid	RBPMS	Exon 5	NTRK3	Exon 14	NO	YES	1	0	0	2

65	P-0026390	Papillary Thyroid Cancer	Thyroid	<i>ETV6</i>	Exon 4	<i>NTRK3</i>	Exon 14	YES	YES	1	0	0	0
66	P-0026696	Papillary Thyroid Cancer	Thyroid	<i>ETV6</i>	Exon 4	<i>NTRK3</i>	Exon 14	YES	YES	N/A			
67	P-0033493	Papillary Thyroid Cancer	Thyroid	<i>SQSTM1</i>	Exon 4	<i>NTRK3</i>	Exon 14	NO	YES	1	3	0	0
68	P-0037610	Papillary Thyroid Cancer	Thyroid	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 14	YES	N/A	1	0	0	0
69	P-0036992	Papillary Thyroid Cancer	Thyroid	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 14	YES	N/A	1	0	0	0
70	P-0007911	Poorly Differentiated Thyroid Cancer	Thyroid	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 13	YES	N/A	1	0	0	0
71	P-0026357	Poorly Differentiated Thyroid Cancer	Thyroid	<i>EML4</i>	Exon 2	<i>NTRK3</i>	Exon 14	NO	YES	1	0	0	0
72	P-0025987	Primary Neuroepithelial Tumor	Glioma	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 14	YES	YES	1	3	0	0
73	P-0021974	High grade carcinoma of salivary gland	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 15	YES	N/A	1	0	0	1
74	P-0026286	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 14	YES	YES	N/A			
75	P-0010562	Salivary Duct Carcinoma	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 13	YES	N/A	1	0	0	1
76	P-0007552	Spindle cell sarcoma	Sarcoma	<i>TPM4</i>	Exon 6	<i>NTRK3</i>	Exon 11	NO	YES	1	0	0	0
77	P-0002978	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 15	YES	YES	1	0	0	2
78	N/A	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 15	N/A	YES	N/A			
79	P-0007772	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 13	YES	N/A	0	0	0	0
80	P-0023257	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 4	<i>NTRK3</i>	Exon 14	YES	YES	N/A			
81	P-0006480	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 14	YES	N/A	N/A			
82	N/A	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	*	<i>NTRK3</i>	*	N/A*	N/A*	1	0	0	0
83	P-0010668	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 5	<i>NTRK3</i>	Exon 15	YES	YES	1	0	0	3
84	P-0016507	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 15	YES	N/A	1	0	0	2
85	P-0018060	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 15	YES	N/A	1	0	0	1
86	P-0032148	Secretory Carcinoma of Salivary Gland	Salivary Gland	<i>ETV6</i>	Exon 6	<i>NTRK3</i>	Exon 15	YES	N/A	1	0	0	2
87	P-0031128	Uterine Sarcoma	Sarcoma	<i>EEF1A1</i>	Exon 8	<i>NTRK3</i>	Exon 14	N/A	YES	0	0	0	0

Notes

- * Fluorescence in situ hybridization using an *ETV6* breakpoint probe was positive in 83.3% of cells, confirming the diagnosis of secretory carcinoma of salivary gland
- ** An intragenic gain of the kinase domain of *NTRK* was observed upon manual review of copy number alterations, raising suspicion of a fusion
- † The specimen had very low tumor content and no alterations were seen by IMPACT.
- ‡ All cases positive by IHC show cytoplasmic staining. If additional staining patterns are seen, they are designated here as 1 = weak; 2 = moderate; 3 = strong