

Table 3. List of all fusion cases

No.	Clone Count	mRNA Accession	EST Accession	Known Status	Cell Type	Aberr*	Gene	Gene 1			Gene 2			Source	
								List [†]	Chrom [‡]	UniGene	Gene	List [†]	Chrom [‡]		UniGene
1	7	AF361221	BU943989, BU944045, BU944756, BU955765, BU957509, CA455392	known	cancer	t	<i>BCAS4</i>	-	20q13.13	Hs.381178	<i>BCAS3</i>	-	17q23.2	Hs.287450	Breast carcinoma, cell line MCF7; breast, adenocarcinoma, cell line, NIH_MGC_107
2	6	AF113911, AJ131466, AJ131467, AY043457, M13096, M25946		known	cancer	t	<i>BCR</i>	MF	22q11.23	Hs.446394	<i>ABL1</i>	MF	9q34.12	Hs.446504	Acute lymphoblastic leukemia; chronic myeloid leukemia; chronic myeloid leukemia, cell line K562
3	5	AJ301612, S62138, S75762, S75763, X71427		known	cancer	t	<i>FUS</i>	MF	16p11.2	Hs.107720	<i>MARS</i>	-	12q13.3	Hs.355867	Myxoid liposarcoma
4	4	AF272383, AF272384, AF272385, AY187923		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>MLLT10</i>	MF	10p12.31	Hs.446451	Acute lymphoblastic leukemia; acute myeloid leukemia
5	4	AF031404, AF487905, AF492832, S67825		known	cancer	t, r	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>MLLT2</i>	MF	4q21.3	Hs.114765	Acute lymphoblastic leukemia
6	3	AF177238, AF177239, AF487906		known	cancer	t, r	<i>MLLT2</i>	MF	4q21.3	Hs.114765	<i>MLL</i>	MF	11q23.3	Hs.258855	Acute lymphoblastic leukemia; acute lymphoblastic leukemia, cell line MV4-11
7	3	AF364035, AJ303089, AJ303090		known	cancer	t, r	<i>RBM15</i>	M	1p13.3	Hs.435947	<i>MKLI</i>	M	22q13.1	Hs.416266	Acute megakaryocytic leukemia
8	2	AF364036, AF364037		known	cancer	t, r	<i>MKLI</i>	M	22q13.1	Hs.416266	<i>RBM15</i>	M	1p13.3	Hs.435947	Acute megakaryocytic leukemia
9	3	AF125093, AF143407, AF390893		known	cancer	t	<i>TFG</i>	F	3q12.2	Hs.446568	<i>ALK</i>	MF	2p23.2	Hs.410680	Anaplastic large cell lymphoma
10	3	AF060929, AF060930, AF060931		known	cancer	t	<i>MLLT10</i>	MF	10p12.31	Hs.446451	<i>PICALM</i>	F	11q14.2	Hs.39252	Acute lymphoblastic leukemia
11	3	AF512943, AF512945, AF512946		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>SEPT6</i>	F	Xq24	Hs.90998	Acute myelomonocytic leukemia
12	3	Y08643, Y15920, Y15921		known	cancer	t	<i>COL1A1</i>	F	17q21.33	Hs.172928	<i>PDGFB</i>	F	22q13.1	Hs.1976	Dermatofibrosarcoma protuberans
13	2	U08818, U19348		known	cancer	t	<i>TPR</i>	F	1q31.1	Hs.170472	<i>MET</i>	F	7q31.2	Hs.419124	Transformed fibroblast, NIH3T3
14	2	U02308, U02368		known	cancer	t	<i>PAX3</i>	MF	2q36.1	Hs.42146	<i>FOXO1A</i>	MF	13q14.11	Hs.170133	Alveolar rhabdomyosarcoma, cell line RH30
15	2	D45915, U04946		known	cancer	t	<i>NPM1</i>	MF	5q35.1	Hs.411098	<i>ALK</i>	MF	2p23.2	Hs.410680	Anaplastic large cell lymphoma, cell line AMS3; anaplastic large cell lymphoma, cell line SU-DHL-1
16	2	AJ549095, AJ549096		known	cancer	t	<i>CREB3L2</i>	M	7q33	Hs.59943	<i>FUS</i>	MF	16p11.2	Hs.107720	Fibromyxoid sarcoma
17	2	AJ251843, AJ251844		known	cancer	t, r	<i>MYST3</i>	M	8p11.21	Hs.93231	<i>CREBBP</i>	MF	16p13.3	Hs.270804	Acute myeloid leukemia
18	1	AJ251845		known	cancer	t, r	<i>CREBBP</i>	MF	16p13.3	Hs.270804	<i>MYST3</i>	M	8p11.21	Hs.93231	Acute myeloid leukemia
19	2	AF297748, AF297749		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>GMPS</i>	F	3q25.31	Hs.144057	Acute myeloid leukemia
20	2	AF186110, AF310722		known	cancer	t	<i>TPM4</i>	F	19p13.12	Hs.250641	<i>ALK</i>	MF	2p23.2	Hs.410680	Anaplastic large cell lymphoma; inflammatory myofibroblastic tumor
21	2	AF312386, AF312387		known	cancer	t	<i>RUNX1</i>	MF	21q22.12	Hs.410774	-	-	19q13.42	AY004251	Acute myeloid leukemia
22	1	X03541		known	cancer	inv	<i>TPM3</i>	F	1q21.3	Hs.178468	<i>NTRK1</i>	F	1q23.1	Hs.406293	Colon carcinoma
23	1	AY149631		known	cancer	t	<i>FLJ21877</i>	-	2p21	NM_022065	-	-	3p25.2	AY149630	Thyroid adenoma, cell line
24	1	X85960		known	cancer	t	<i>TFG</i>	F	3q12.2	Hs.446568	<i>NTRK1</i>	F	1q23.1	Hs.406293	Thyroid carcinoma
25	1	U41743		known	cancer	t	<i>NPM1</i>	MF	5q35.1	Hs.411098	<i>RARA</i>	MF	17q21.2	Hs.361071	Acute promyelocytic leukemia
26	1	AF492830		known	cancer	t	<i>CDK6</i>	M	7q21.2	Hs.38481	<i>MLL</i>	MF	11q23.3	Hs.258855	Acute lymphoblastic leukemia
27	1	AF221550		known	cancer	t	<i>COL1A2</i>	-	7q21.3	Hs.232115	<i>PLAG1</i>	M	8q12.1	Hs.14968	Lipoblastoma
28	1	AY222643		known	cancer	t	<i>CREB3L2</i>	M	7q33	Hs.59943	<i>PPARG</i>	MF	3p25.2	Hs.387667	Thyroid carcinoma
29	1	AJ297349		known	cancer	t	<i>PCMI</i>	F	8p22	Hs.348501	<i>RET</i>	MF	10q11.21	Hs.350321	Thyroid carcinoma
30	1	AJ298917		known	cancer	t, r	<i>FGFR1</i>	MF	8p12	Hs.748	<i>BCR</i>	MF	22q11.23	Hs.446394	Hematologic malignancy
31	1	AJ298916		known	cancer	t, r	<i>BCR</i>	MF	22q11.23	Hs.446394	<i>FGFR1</i>	MF	8p12	Hs.748	Hematologic malignancy
32	1	M31213		known	cancer	inv	<i>D10S170</i>	MF	10q21.2	Hs.446360	<i>RET</i>	MF	10q11.21	Hs.350321	Thyroid carcinoma
33	1	AJ299261		known	cancer	t, r	<i>MYST4</i>	F	10q22.2	Hs.27590	<i>CREBBP</i>	MF	16p13.3	Hs.270804	Acute myeloid leukemia
34	1	AJ299262		known	cancer	t, r	<i>CREBBP</i>	MF	16p13.3	Hs.270804	<i>MYST4</i>	F	10q22.2	Hs.27590	Acute myeloid leukemia
35	1	AB000267		known	cancer	inv	<i>NUP98</i>	MF	11p15.4	Hs.112255	<i>DDX10</i>	MF	11q22.3	Hs.41706	Myeloid malignancy
36	1	AB038155		known	cancer	t	<i>NUP98</i>	MF	11p15.4	Hs.112255	<i>HOXD13</i>	MF	2q31.1	Hs.152414	Acute myeloid leukemia
37	1	AF422798		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>LAF4</i>	F	2q11.2	Hs.38070	Acute lymphoblastic leukemia
38	1	AF272374		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>ELL</i>	MF	19p13.11	Hs.5881	Acute myeloid leukemia
39	1	AF231995		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>GAS7</i>	F	17p13.1	Hs.226133	Acute myeloid leukemia
40	1	AF477006		known	cancer	inv	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>PICALM</i>	F	11q14.2	Hs.39252	Acute myeloid leukemia
41	1	AY187922		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>EPS15</i>	MF	1p32.3	Hs.79095	Acute lymphoblastic leukemia
42	1	AY187921		known	cancer	t	<i>MLL</i>	MF	11q23.3	Hs.258855	<i>MLLT1</i>	MF	19p13.3	Hs.234774	Acute lymphoblastic leukemia
43	1	AF041811		known	cancer	t	<i>ETV6</i>	MF	12p13.2	Hs.171262	<i>NTRK3</i>	F	15q25.3	Hs.26776	Fibrosarcoma
44	1	X13230		known	cancer	t	<i>TMOD3</i>	-	15q21.2	Hs.22826	<i>MCF2</i>	-	Xq27.1	Hs.387262	Breast carcinoma, cell line MCF7
45	1	AF289510		known	cancer	t	<i>TCF12</i>	F	15q21.3	Hs.438166	<i>NR4A3</i>	MF	9q22.33	Hs.279522	Extraskeletal myxoid chondrosarcoma
46	1	M73779		known	cancer	t	<i>PML</i>	MF	15q24.1	Hs.89633	<i>RARA</i>	MF	17q21.2	Hs.361071	Acute promyelocytic leukemia
47	1	AJ295163		known	cancer	t	<i>FUS</i>	MF	16p11.2	Hs.107720	<i>ATF1</i>	MF	12q13.12	Hs.36908	Angiomatoid fibrous histiocytoma
48	1	AF162670		known	cancer	t	<i>TAF15</i>	MF	17q12	Hs.402752	<i>NR4A3</i>	MF	9q22.33	Hs.279522	Extraskeletal myxoid chondrosarcoma

49	1	L03357	known	cancer	t	<i>PRKARIA</i>	F	17q24.2	Hs.280342	<i>RET</i>	MF	10q11.21	Hs.350321	Thyroid tumor, cell line NF1002
50	1	S79325	known	cancer	t	<i>SS18</i>	MF	18q11.2	Hs.404263	<i>SSX1</i>	MF	Xp11.23	Hs.434142	Synovial sarcoma
51	1	M31522	known	cancer	t	<i>TCF3</i>	MF	19p13.3	Hs.371282	<i>PBX1</i>	MF	1q23.3	Hs.408222	Acute lymphoblastic leukemia
52	1	AY040324	known	cancer	t	<i>MECT1</i>	MF	19p13.11	Hs.6051	<i>MAML2</i>	MF	11q21	Hs.112472	Mucocutaneous carcinoma
53	1	Z35296	known	cancer	t	<i>RUNX1</i>	MF	21q22.12	Hs.410774	<i>CBFA2T1</i>	MF	8q21.3	Hs.90858	Acute myeloid leukemia
54	1	AF419247	known	cancer	inv	<i>RUNX1</i>	MF	21q22.12	Hs.410774	<i>USP25</i>	-	21q21.1	Hs.186961	Myelodysplastic bone marrow
55	1	S69002	known	cancer	t	<i>RUNX1</i>	MF	21q22.12	Hs.410774	<i>MDS1</i>	MF	3q26.2	Hs.440966	Chronic myeloid leukemia, cell line SKH1
56	1	AF327066	known	cancer	t	<i>EWSR1</i>	MF	22q12.2	Hs.374477	<i>FLI1</i>	MF	11q24.3	Hs.257049	Ewings sarcoma
57	1	X92120	known	cancer	t	<i>EWSR1</i>	MF	22q12.2	Hs.374477	<i>MARS</i>	-	12q13.3	Hs.355867	Myxoid liposarcoma
58	1	U35622	known	cancer	t	<i>EWSR1</i>	MF	22q12.2	Hs.374477	<i>ETV4</i>	F	17q21.31	Hs.434059	Ewings sarcoma
59	1	AF533682	known	disease	inv	<i>IL1RAPL1</i>	-	Xp21.3	Hs.241385	<i>DMD</i>	-	Xp21.1	Hs.169470	Muscle, Duchenne muscular dystrophy
60	1	U66055	known	disease	inv	<i>IDS</i>	-	Xq28	Hs.303154	-	-	Xq28	U66053	Fibroblast, Hunter syndrome
61	4	BG181640, BG183185, BG191557, BG208574	new	cancer	t	<i>RNGTT</i>	-	6q15	Hs.27345	-	-	12q13.13	Hs.444433	Fibrosarcoma, cell line HT-1080, random activation
62	4	BG491331, BM555536, BM809442, BM914863	new	cancer	t	<i>PMM2</i>	-	16p13.2	Hs.313504	<i>FDPS</i>	-	1q22	Hs.335918	Skin, amelanotic melanoma, cell line, NIH_MGC_41
63	3	A1949061, BF059236, BF223017	new	cancer	t	<i>HRB</i>	-	2q36.3	Hs.352962	<i>PVRL3</i>	-	3q13.13	Hs.436602	Pooled germ cell tumors, NCI_CGAP_GC6
64	3	BU538795, BU857782, BU859760	new	cancer	t	<i>IRA1</i>	-	3q26.32	Hs.438970	<i>RGS17</i>	-	6q25.2	Hs.268562	Breast, adenocarcinoma, cell line, NIH_MGC_107
65	3	BC036186, BC048967	new	normal	inv	<i>BS69</i>	-	10p15.3	Hs.145894	<i>ANUBL1</i>	-	10q11.21	Hs.409813	Brain, hypothalamus, NIH_MGC_96
66	2	AA315813, AW951984	new	cancer; unknown	inv	<i>FLJ20297</i>	-	2q21.1	Hs.94491	<i>MDH1</i>	-	2p15	Hs.75375	MAGE resequences, MAGB; colon carcinoma, cell line KM12C
67	2	AA057480, AA100762	new	cancer	inv	<i>MLLT2</i>	MF	4q21.3	Hs.114765	<i>UBE2D3</i>	-	4q24	Hs.411826	Colon carcinoma, cell line T84
68	2	CB137971, CB139392	new	cancer	t	<i>FLJ20364</i>	-	5q35.1	Hs.32471	<i>CDKL2</i>	-	4q21.1	Hs.143241	Liver, cholangiocarcinoma, cell line CK-K1; liver, hepatocellular carcinoma, cell line HLK-1
69	2	BQ056742, BQ057316	new	cancer	t	<i>HSPC196</i>	-	11q12.2	Hs.406530	<i>DTNB</i>	-	2p23.3	Hs.406073	Lymphoma, cell line, NIH_MGC_99
70	2	BQ073577, BQ948076, BX283235	new	cancer	t	<i>HMG2</i>	MF	12q14.3	Hs.6421	<i>ELAC2</i>	-	17p12	Hs.12124	Lung, epidermoid carcinoma, cell line, NIH_MGC_101
71	2	AK023167, AX794778	new	cancer	t	-	-	13q12.11	Hs.380712	-	-	4q13.3	BC032771	Teratocarcinoma, cell line NT2
72	2	BE616343, BE736691	new	cancer	t	<i>LMO7</i>	-	13q22.2	Hs.5978	<i>TGFBI</i>	-	5q31.1	Hs.421496	Pancreas, adenocarcinoma, cell line, NIH_MGC_39
73	2	BG190768, BG209671	new	cancer	inv	<i>C14orf145</i>	-	14q31.1	Hs.333278	<i>DC50</i>	-	14q24.3	Hs.324521	Fibrosarcoma, cell line HT-1080, random activation
74	2	BF203521, BF203707	new	cancer	t	-	-	18q12.2	Hs.501047	<i>GNB1</i>	-	1p36.33	Hs.304694	Muscle, rhabdomyosarcoma, cell line, NIH_MGC_17
75	2	BM847416, BM849429	new	cancer	t	<i>KIAA0685</i>	-	22q13.33	Hs.449098	<i>RAI</i>	-	19q13.32	Hs.324051	Myeloma, cell line KMS-5
76	2	CB124392, CB125773	new	cancer	t	<i>MGC39900</i>	-	Xq22.2	Hs.422848	<i>INSIG1</i>	-	7q36.2	Hs.416385	Liver, hepatocellular carcinoma, cell line HLK-1
77	2	AA303951, AW960543	new	normal; unknown	t	<i>KIAA0090</i>	-	1p36.13	Hs.439200	<i>KNTC1</i>	-	12q24.31	Hs.300559	MAGE resequences, MAGF; aorta endothelial cell
78	2	CB959665, CB988184	new	normal	t	<i>cig5</i>	-	2p25.2	Hs.17518	<i>WAC</i>	-	10p12.1	Hs.370152	Placenta, NIH_MGC_147
79	2	BC012553	new	normal	t	<i>LOC51244</i>	-	3p25.1	Hs.236257	<i>FLJ22104</i>	-	11q14.2	Hs.183887	Brain, primitive neuroectoderm, cell line,
80	2	AA255952, AW977393	new	normal; unknown	t	<i>GGA2</i>	-	16p12.2	Hs.133340	<i>RPF1</i>	-	1p22.3	Hs.287863	MAGE resequences, MAGO; germinal center B cell, NCI_CGAP_GCB1
81	1	AW439303	new	cancer	t	<i>UBE2J2</i>	-	1p36.33	Hs.441183	<i>CPM</i>	-	12q15	Hs.334873	Uterus, serous papillary carcinoma, NCI_CGAP_Ut4
82	1	BF348299	new	cancer	inv	<i>CAMTA1</i>	-	1p36.31	Hs.253254	<i>MIG-6</i>	-	1p36.23	Hs.11169	Brain, anaplastic oligodendroglioma,
83	1	AK074990	new	cancer	inv	<i>MI-ER1</i>	-	1p31.2	Hs.222746	<i>FLJ23091</i>	-	1p31.2	Hs.297792	Teratocarcinoma, cell line NT2
84	1	CA438826	new	cancer	t	<i>DDAH1</i>	-	1p22.3	Hs.380870	<i>MGC4677</i>	-	2p11.2	Hs.446688	Lung, metastatic chondrosarcoma, cell line VS-8, NCI_CGAP_DH0
85	1	BM827801	new	cancer	t	<i>GUK1</i>	-	1q42.13	Hs.376933	<i>ARFGAP1</i>	-	20q13.33	Hs.25584	Stomach, lymphoblast-like, cell line SNU-1
86	1	A1814482	new	cancer	t	<i>CCT4</i>	-	2p15	Hs.374334	<i>APGSL</i>	-	6q21	Hs.11171	Lung, squamous cell carcinoma, NCI_CGAP_Lu19
87	1	AW081998	new	cancer	t	<i>COL3A1</i>	-	2q32.2	Hs.443625	<i>GRSF1</i>	-	4q13.3	Hs.309763	Esophagus, squamous cell carcinoma,
88	1	CB157092	new	cancer	t	<i>FLJ12519</i>	-	2q32.2	Hs.399984	<i>LOC285498</i>	-	4p16.3	Hs.248290	Liver, cholangiocarcinoma, cell line J-SHC
89	1	BM469052	new	cancer	t	<i>NS3TP1</i>	-	2q32.2	Hs.101364	<i>SUPT6H</i>	-	17q11.2	Hs.250429	Testis, embryonal carcinoma, cell line, NIH_MGC_92
90	1	BE739272	new	cancer	inv	<i>MGC61571</i>	-	3p24.1	Hs.437336	<i>AZZ</i>	-	3p24.1	Hs.512689	Kidney, hypernephroma, cell line, NIH_MGC_58
91	1	BU845330	new	cancer	t	<i>QARS</i>	-	3p21.31	Hs.79322	<i>AP2A1</i>	-	19q13.33	Hs.296426	Ovary, teratocarcinoma, cell line, NIH_MGC_109
92	1	BE792646	new	cancer	t	<i>ATP2C1</i>	-	3q22.1	Hs.106778	<i>LOC51760</i>	-	16p12.3	NM_016524	Lung, small cell carcinoma, cell line MGC3,
93	1	BC007229	new	cancer	t	<i>ABCC5</i>	-	3q27.1	Hs.34744	<i>TGFBI</i>	-	5q31.1	Hs.421496	Kidney renal cell adenocarcinoma, NIH_MGC_14
94	1	BI089294	new	cancer	t	<i>KIAA0114</i>	-	4q12	Hs.17719	<i>EPI64</i>	-	22q12.2	Hs.380621	Placenta, choriocarcinoma, cell line MGC36, NIH_MGC_10
95	1	A1809466	new	cancer	t	<i>CCNI</i>	-	4q21.1	Hs.369110	<i>CYorf15A</i>	-	Yq11.22	Hs.171857	B-cell, chronic lymphocytic leukemia,
96	1	BE873019	new	cancer	t	<i>ENCI</i>	-	5q13.3	Hs.104925	<i>LRBA</i>	-	4q31.23	Hs.209846	Colon, adenocarcinoma, cell line, NIH_MGC_65
97	1	AK092258	new	cancer	t	-	-	5q15	Hs.446400	<i>USP11</i>	-	Xp11.3	Hs.171501	Teratocarcinoma, cell line NT2
98	1	A1174360	new	cancer	t	<i>KIAA0372</i>	-	5q15	Hs.435330	<i>FLJ25070</i>	-	1p21.1	Hs.512635	Wilms' tumor
99	1	W33075	new	cancer	t	<i>CD109</i>	-	6q13	Hs.94030	<i>NPHP1</i>	-	2q13	Hs.280388	Parathyroid gland, tumor
100	1	BM841194	new	cancer	t	<i>CENT41</i>	-	7p22.3	Hs.135183	<i>NOLCI</i>	-	10q24.32	Hs.75337	Myeloma, cell line KMS-5
101	1	AL561488	new	cancer	t	<i>HRI</i>	-	7p22.1	Hs.434986	<i>KIAA0194</i>	-	5q33.1	Hs.200776	Burkitt's lymphoma, cell line Ramos
102	1	BQ214674	new	cancer	t	<i>TRA2A</i>	-	7p15.3	Hs.445652	<i>MGC11266</i>	-	2p23.3	Hs.293943	Skin, melanotic melanoma, cell line, NIH_MGC_72
103	1	BG220754	new	cancer	inv	<i>CACNA2D1</i>	-	7q21.11	Hs.147871	<i>PHF14</i>	-	7p21.3	Hs.409117	Fibrosarcoma, cell line HT-1080, random activation
104	1	BQ893362	new	cancer	t	<i>MGC40405</i>	-	7q21.2	Hs.119172	<i>CPM</i>	-	12q15	Hs.334873	Salivary gland, epidermoid carcinoma, cell line, NIH_MGC_102
105	1	CB119417	new	cancer	t	<i>LAMB1</i>	-	7q31.1	Hs.122645	<i>KPNA3</i>	-	13q14.2	Hs.407765	Liver, cholangiocarcinoma, cell line SCK
106	1	BC006380	new	cancer	t	<i>NRF1</i>	-	7q32.2	Hs.202007	<i>EIF4A1</i>	-	17p13.1	Hs.129673	Brain neuroblastoma, NIH_MGC_19
107	1	BE243987	new	cancer	t	-	-	7q32.3	Hs.490096	<i>TLOCI</i>	-	3q26.2	Hs.158193	Acute lymphoblastic leukemia
108	1	AW511397	new	cancer	t	-	-	8p12	Hs.458713	-	-	3p14.3	AK126276	Pooled germ cell tumors, NCI_CGAP_GC6
109	1	BE676586	new	cancer	t	<i>E2F5</i>	-	8q21.2	Hs.447905	<i>BCL11A</i>	MF	2p16.1	Hs.314623	B-cell, chronic lymphocytic leukemia,
110	1	BM745903	new	cancer	t	-	-	8q24.21	Hs.512446	<i>SLC11A2</i>	-	11p13	NM_004171	Stomach, lymphoblast-like, cell line SNU-16
111	1	BG192319	new	cancer	t	-	-	9q21.12	Hs.54957	<i>NPM1</i>	MF	5q35.1	Hs.411098	Fibrosarcoma, cell line HT-1080, random activation
112	1	BX382859	new	cancer	t	<i>ZNF37A</i>	-	10p11.1	Hs.446382	<i>TUBGCP6</i>	-	22q13.33	Hs.336431	T-lymphoma, cell line Jurkat

113	1	BM152333	new	cancer	t	RAG2	-	11p12	Hs.159376	BACH2	-	6q15	Hs.88414	Acute lymphoblastic leukemia	
114	1	BG687612	new	cancer	t	UBE2L6	-	11q12.1	Hs.425777	LOC203522	-	Xq26.3	Hs.15282	Lung, mucopidermoid carcinoma, cell line,	
115	1	BF528396	new	cancer	t	VAMP1	-	12p13.31	Hs.200271	WBSCR20C	-	7q11.23	Hs.436034	Brain, anaplastic oligodendroglioma,	
116	1	BE281028	new	cancer	t	REA	-	12p13.31	Hs.444499	SPINT1	-	15q15.1	Hs.233950	Placenta, choriocarcinoma, cell line, NIH_MGC_21	
117	1	BG386606	new	cancer	inv	EK11	-	12p12.1	Hs.120049	KIAA0528	-	12p12.1	Hs.30656	Colon, adenocarcinoma, cell line, NIH_MGC_15	
118	1	BU181747	new	cancer	t	LASS5	-	12q13.12	Hs.458450	NPL	-	1q25.3	Hs.64896	Eye, retinoblastoma, cell line, NIH_MGC_67	
119	1	BQ434418	new	cancer	inv	TIP120A	-	12q14.3	Hs.512638	GNS	-	12q14.3	Hs.334534	Skin, melanotic melanoma, cell line, NIH_MGC_72	
120	1	BG166334	new	cancer	t	KIAA0701	-	12q23.1	Hs.153293	PXK	-	3p14.3	Hs.77646	Kidney, hypernephroma, cell line, NIH_MGC_89	
121	1	B1335248	new	cancer	inv	KIAA0970	-	13q14.2	Hs.103329	ESD	-	13q14.2	Hs.432491	Cervix, carcinoma, cell line, NIH_MGC_12	
122	1	BF203978	new	cancer	t	ANKRD10	-	13q34	Hs.164969	PKMYT1	-	16p13.3	Hs.77783	Muscle, rhabdomyosarcoma, cell line, NIH_MGC_17	
123	1	BG389369	new	cancer	t	FLJ20313	-	15q13.3	Hs.126721	DC-TM4F2	-	10q22.3	Hs.509050	Testis, embryonal carcinoma, cell line, NIH_MGC_92	
124	1	AL135593	new	cancer	t	ETFA	-	15q24.2	Hs.169919	SCO1	-	17p13.1	Hs.14511	Skin, melanoma, cell line MeWo	
125	1	AK127563	new	cancer	t	IREB2	-	15q25.1	Hs.370324	OXR1	-	8q23.1	Hs.432398	Tongue tumor	
126	1	CB122525	new	cancer	t	AWP1	-	15q25.1	Hs.83954	PSMB1	-	6q27	Hs.352768	Liver, cholangiocarcinoma, cell line Cho-CK	
127	1	AL555315	new	cancer	t	-	-	15q25.2	Hs.498330	RBM5	-	3p21.31	Hs.439480	Cervical cancer, cell line HeLa	
128	1	BG469825	new	cancer	inv	JQGAP1	-	15q26.1	Hs.1742	IDH2	-	15q26.2	Hs.5337	Colon, adenocarcinoma, cell line, NIH_MGC_15	
129	1	BG529061	new	cancer	t	FLJ31153	-	16p13.11	Hs.350424	SLC12A2	-	5q23.2	Hs.110736	Prostate, adenocarcinoma, cell line, NIH_MGC_60	
130	1	BF124990	new	cancer	t	LAT1-3TM	-	16p11.2	NM_031211	-	-	17q23.2	Hs.410998	Skin, melanotic melanoma, cell line, NIH_MGC_20	
131	1	CA429191	new	cancer	t	RBL2	-	16q12.2	Hs.283604	C3orf1	-	3q13.33	Hs.210036	Cartilage, chondrosarcoma, cell line CS8, NCI CGAP FHI	
132	1	BM755010	new	cancer	t	NQO1	-	16q22.1	Hs.406515	KIAA0372	-	5q15	Hs.435330	Stomach, lymphoblast-like, cell line SNU-1	
133	1	BX370328	new	cancer	t	FLJ10520	-	16q22.3	Hs.77510	HSH2	-	19p13.12	Hs.512797	T-lymphoma, cell line Jurkat	
134	1	BU192483	new	cancer	inv	FLJ20343	-	17p12	Hs.171044	NCOR1	-	17p12	Hs.144904	Testis, embryonal carcinoma, cell line, NIH_MGC_92	
135	1	BQ213899	new	cancer	t	RAB31	-	18p11.22	Hs.223025	EEF1A1	-	6q13	Hs.439552	Lung, large cell carcinoma, cell line, NIH_MGC_68	
136	1	BE618276	new	cancer	t	MGC10200	-	18q21.1	Hs.134726	NAG	-	2p24.3	Hs.413771	Eye, retinoblastoma, cell line, NIH_MGC_67	
137	1	AI763093	new	cancer	t	FLJ22378	-	18q23	Hs.288284	-	-	20q13.13	Hs.356766	B-cell, chronic lymphocytic leukemia,	
138	1	BU844738	new	cancer	t	E1F3S4	-	19p13.2	Hs.28081	LOC283989	-	17q25.1	Hs.378501	Ovary, teratocarcinoma, cell line, NIH_MGC_109	
139	1	BM561692	new	cancer	t	GLTSCR2	-	19q13.33	Hs.421907	KIAA0792	-	1q42.12	Hs.119387	Small intestine, duodenal adenocarcinoma, cell line, NIH_MGC_88	
140	1	BF244226	new	cancer	inv	-	-	22q11.23	Hs.505467	DDT	-	22q11.23	Hs.433902	Brain, glioblastoma, cell line, NIH_MGC_57	
141	1	CB112861	new	cancer	inv	-	-	22q12.2	Hs.318954	YWHAH	-	22q12.3	Hs.226755	Liver, cholangiocarcinoma, cell line Cho-CK	
142	1	BU849679	new	cancer	inv	TOB2	-	22q13.2	Hs.4994	ACO2	-	22q13.2	Hs.300463	Ovary, teratocarcinoma, cell line, NIH_MGC_109	
143	1	BX350623	new	cancer	t	DIAPH2	-	Xq21.33	Hs.226483	C2orf132	-	20q11.23	Hs.349125	Burkitt's lymphoma, cell line Ramos	
144	1	BE540893	new	cancer	inv	FLNA	-	Xq28	Hs.195464	ATP6A1	-	Xq28	Hs.6551	Placenta, choriocarcinoma, cell line MGC36, NIH_MGC_10	
145	1	AW014907	new	mixed	inv	MSF	MF	17q25.3	Hs.288094	-	-	17q23.2	Hs.410998	Pooled, NCI CGAP Sub1	
146	1	BX441343	new	normal	t	PRDM16	M	1p36.32	Hs.409905	PCDHGC3	-	5q31.3	Hs.283794	Brain	
147	1	CD109875	new	normal	t	ZNF262	-	1p34.3	Hs.150390	LPP	MF	3q28	Hs.180398	Placenta, NIH_MGC_147	
148	1	AI420901	new	normal	t	BBP	-	1p31.3	Hs.276876	TLE2	-	19p13.3	Hs.332173	Prostate, NCI CGAP Pr28	
149	1	BX098276	new	normal	t	DKFZp5471048	-	1p31.1	Hs.200286	-	-	10q26.11	Hs.69494	Testis	
150	1	BI834312	new	normal	t	TGFBR3	-	1p22.1	Hs.342874	FGD3	-	9q22.31	Hs.411081	Pooled pancreas and spleen, NIH_MGC_120	
151	1	CD701001	new	normal	t	STAF42	-	1q24.1	Hs.435967	EBF	-	5q33.3	Hs.120785	Nasopharynx	
152	1	AX427505	new	normal	t	RGL	-	1q25.3	Hs.79219	HMG2L1	-	22q12.3	Hs.92260	Liver	
153	1	AI989352	new	normal	t	TSNAX	-	1q42.2	Hs.96247	RPL9	-	4p14	Hs.412370	Thymus	
154	1	BM676373	new	normal	t	LTBP1	-	2p22.3	Hs.241257	-	-	21q21.1	Hs.102754	Eye	
155	1	AV743265	new	normal	inv	HTLF	-	2p16.3	Hs.103126	CXCR4	-	2q21.3	Hs.421986	CD34+ hematopoietic stem/progenitor cell	
156	1	BI462676	new	normal	inv	SIAT9	-	2p11.2	Hs.415117	KCMF1	-	2p11.2	Hs.5392	Testis, NIH_MGC_97	
157	1	CF593854	new	normal	t	RAB3GAP	-	2q21.3	Hs.306327	PCOLN3	-	16q24.3	Hs.183138	Placenta, NIH_MGC_147	
158	1	AL832395	new	normal	t	ARHGAP15	-	2q22.2	Hs.433597	MBNL1	-	3q25.2	Hs.28578	Lymph node	
159	1	BI518724	new	normal	t	GCA	-	2q24.2	Hs.377894	FLJ20356	-	4p16.1	Hs.61053	Leukocyte, NIH_MGC_118	
160	1	AK093926	new	normal	inv	SP3	-	2q31.1	Hs.154295	FLJ20080	-	2p14	Hs.7942	Trachea	
161	1	BG756114	new	normal	t	KIAA0121	-	3p25.3	Hs.155584	UBE2E3	-	2q31.3	Hs.449501	Primary B-cells from tonsils, cell line, NIH_MGC_48	
162	1	CB995744	new	normal	t	RAFTLIN	-	3p24.3	Hs.436432	MAPK9	-	5q35.3	Hs.348446	Placenta, pre-eclamptic, NIH_MGC_148	
163	1	CA405937	new	normal	t	ZNF288	-	3q13.31	Hs.436987	GNAS	F	20q13.32	Hs.157307	Adipose	
164	1	BQ181358	new	normal	inv	GOLGB1	-	3q21.1	Hs.445083	FLJ13386	-	3q22.2	Hs.443301	Knee, osteoarthritic cartilage, NCI CGAP Carl	
165	1	AV760860	new	normal	t	PDCD10	-	3q26.1	Hs.424619	ARHGAP15	-	2q22.3	Hs.433597	CD34+ hematopoietic stem/progenitor cell	
166	1	BM920574	new	normal	t	LDB2	-	4p15.32	Hs.4980	TAX1BP1	-	7p15.2	Hs.5437	Pooled lung and spleen, NIH_MGC_122	
167	1	BI758136	new	normal	t	BTC	-	4q13.3	Hs.73105	SPIN	-	9q22.1	Hs.439052	Brain, NIH_MGC_114	
168	1	BI823499	new	normal	t	KIAA0905	-	4q21.22	Hs.436549	PTEN	F	10q23.31	Hs.253309	Pooled brain, lung, and testis, NIH_MGC_115	
169	1	AK127824	new	normal	t	JADE1	-	4q28.2	Hs.12420	-	-	18p11.22	Hs.29739	Placenta	
170	1	BI596864	new	normal	t	NEK1	-	4q33	Hs.414410	RPS6KC1	-	1q32.3	Hs.30352	Brain, hypothalamus, NIH_MGC_96	
171	1	BX396716	new	normal	t	AP3S1	-	5q22.3	Hs.406191	GAI7	-	11p13	Hs.44893	Placenta	
172	1	BX463119	new	normal	t	NS3TP2	-	5q23.2	Hs.281147	ITIH3	-	3p21.1	Hs.76716	Liver	
173	1	BM503944	new	normal	t	HMGN3	-	6q14.1	Hs.77558	TMEM5	-	12q14.2	Hs.112986	Pancreas, islet	
174	1	BI833146	new	normal	inv	RARSL	-	6q15	Hs.432918	HECA	-	6q24.1	Hs.6679	Pooled pancreas and spleen, NIH_MGC_120	
175	1	CA841180	new	normal	inv	C6orf111	-	6q16.2	Hs.414993	QRS1	-	6q21	Hs.406917	Pancreas, islet	
176	1	BU655987	new	normal	inv	CD164	-	6q21	Hs.43910	PNRC1	-	6q15	Hs.75969	Blood, erythroid precursor cell	
177	1	BI600664	new	normal	inv	WBSCR20A	-	7q11.23	Hs.272820	PPLA	-	7p13	Hs.356331	Brain, hypothalamus, NIH_MGC_96	
178	1	AW119175	new	normal	t	HIP1	F	7q11.23	Hs.444795	ANGPT1	-	8q23.1	Hs.2463	Pooled	
179	1	AK127163	new	normal	inv	VIK	-	7q22.1	Hs.414454	KIAA1068	-	7p13	Hs.4770	Brain, caudate nucleus	
180	1	AI126219	new	normal	t	ZNF36	-	7q22.1	Hs.24758	RPLP0	-	12q24.23	Hs.443796	Testis	
181	1	CB988238	new	normal	inv	PPP2R2A	-	8p21.2	Hs.512628	LOC115294	-	8q11.23	Hs.380763	Placenta, NIH_MGC_147	
182	1	AI206708	new	normal	inv	HTPAP	-	8p12	Hs.437179	ADAM18	-	8p11.22	Hs.127930	Testis	
183	1	AK128617	new	normal	t	PKHD1L1	-	8q23.1	Hs.170128	MACF1	-	1p34.3	Hs.372463	Trachea	
184	1	CF138660	new	normal	t	TRPS1	-	8q23.3	Hs.26102	KIAA1280	-	Xp22.22	Hs.12913	Lymph, germinal center B cells, cell line MGC85, NIH_MGC_50	
185	1	BC034435	BI831452	new	normal	inv	FLJ14129	-	8q24.3	Hs.512740	KIAA0150	-	8q24.3	Hs.370491	Brain, medulla, NIH_MGC_119
186	1	BX359670	new	normal	t	RECK	-	9p13.3	Hs.388918	CDK5RAP3	-	17q21.32	Hs.20157	Placenta	
187	1	BC036779	BM925273	new	normal	t	PIPSK2A	-	10p12.2	Hs.108966	RPS6KC1	-	1q32.3	Hs.30352	Brain, NIH_MGC_114
188	1	BI767196	new	normal	t	-	-	10q23.31	Hs.406224	HRBL	-	7q22.1	Hs.278502	Pooled lung and spleen, NIH_MGC_122	
189	1	BI669204	new	normal	inv	RAB6IP1	-	11p15.4	Hs.26797	PPF1BP2	-	11p15.4	Hs.12953	Brain, hypothalamus, NIH_MGC_96	
190	1	BX440752	new	normal	t	LOC58486	-	11p15.4	Hs.25726	DC-Ubp	-	5q35.1	Hs.179852	Brain	
191	1	BI831720	new	normal	t	MICAL2	-	11p15.3	Hs.309674	LPO	-	17q23.2	Hs.234742	Brain, medulla, NIH_MGC_119	
192	1	BE221750	new	normal	t	-	-	11q13.3	Hs.523858	LOC285924	-	7p22.1	Hs.372707	Kidney, NCI CGAP Kid11	
193	1	AK075222	new	normal	t	C11orf30	-	11q13.5	Hs.352588	SLC30A9	-	4p13	Hs.364615	Placenta	
194	1	CD101703	new	normal	t	SLAC2-B	-	11q22.3	Hs.138380	UBE2V1	-	20q13.13	Hs.381025	Placenta, NIH_MGC_147	
195	1	BM921978	new	normal	t	DKFZP564O1863	-	12p11.23	Hs.406184	SMARCA2	-	9p24.3	Hs.396404	Pooled brain, lung, and testis, NIH_MGC_115	
196	1	BI914945	new	normal	inv	FLJ11088	-	12p11.22	Hs.406485	PRH1	-	12p13.2	Hs.512634	Brain, NIH_MGC_121	
197	1	BU785369	new	normal	inv	SENP1	-	12q13.11	Hs.389263	LOC253827	-	12q14.3	Hs.339024	Pancreas, islet	
198	1	BX444194	new	normal	t	FLJ31295	-	12q13.11	Hs.23492	TUBGCP6	-	22q13.33	Hs.336431	Liver	
199	1	CD723306	new	normal	t	KIAA1002	-	12q13.3	AB023219	SMARCE1	-	17q21.2	Hs.437546	Eye, lacrimal gland	
200	1	BM805336	new	normal	t	PITPNM2	-	12q24.31	Hs.272759	MRPS5	-	2q11.1	Hs.387988	Brain, hippocampus, NIH_MGC_124	
201	1	BI827521	new	normal	t	DNAJD1	-	13q14.11	Hs.438830						

202	1	T28049	new	normal	t	<i>FNTB</i>	-	14q23.3	Hs.276	<i>KIAA1078</i>	-	1q32.1	Hs.23585	Brain	
203	1	BM977906	new	normal	inv	<i>WARS</i>	-	14q32.2	Hs.82030	<i>MARK3</i>	-	14q32.32	Hs.437625	Lung	
204	1	BQ068183	new	normal	t	<i>ZFYFE21</i>	-	14q32.33	Hs.169575	<i>BIN1</i>	-	2q14.3	Hs.193163	Brain, NIH_MGC_121	
205	1	CD172355	new	normal	t	<i>CSPG4</i>	-	15q24.2	Hs.436301	<i>SON</i>	-	21q22.11	Hs.430541	White matter, NIH_MGC_181	
206	1	BF770432	new	normal	t	-	-	16p13.3	AL833594	<i>AMD1</i>	-	6q21	Hs.159118	Pooled lung and spleen, NIH_MGC_122	
207	1	BI832490	new	normal	inv	<i>N-PAC</i>	-	16p13.3	Hs.512788	<i>MGC3248</i>	-	16p12.2	Hs.435941	Pooled pancreas and spleen, NIH_MGC_120	
208	1	BM920046	new	normal	t	<i>SULT1A1</i>	-	16p12.1	Hs.142	<i>NONO</i>	-	Xq13.1	Hs.355861	Pooled pancreas and spleen, NIH_MGC_120	
209	1	BG750040	new	normal	t	-	-	16q22.2	Hs.451353	<i>PC326</i>	-	1q24.2	Hs.280168	Eye, pigmented retinal epithelium, NIH_MGC_43	
210	1	BF725485	new	normal	t	<i>FLJ12270</i>	-	16q22.3	Hs.413396	<i>HMGB1</i>	-	13q12.3	Hs.434102	Eye, iris	
211	1	BU688998	new	normal	t	<i>PSMB3</i>	-	17q12	Hs.82793	<i>HINT1</i>	-	5q23.3	Hs.256697	Lung	
212	1	BG427715	new	normal	t	<i>NBR2</i>	-	17q21.31	Hs.375149	<i>NFYB</i>	-	12q23.3	Hs.84928	Kidney, NIH_MGC_75	
213	1	AV764395	new	normal	t	<i>NBR2</i>	-	17q21.31	Hs.375149	<i>LOC51123</i>	-	8q22.3	Hs.449945	CD34+ hematopoietic stem/progenitor cell	
214	1	BM562060	new	normal	t	<i>ZNF147</i>	-	17q23.2	Hs.1579	<i>KIAA1160</i>	-	3q21.3	Hs.512661	Leukocyte, NIH_MGC_118	
215	1	BC017768	BF696408	new	normal	t	<i>FLJ12760</i>	-	17q23.3	Hs.381204	<i>C21orf66</i>	-	21q22.11	Hs.297559	Brain, primitive neuroectoderm, cell line,
216	1	CD683976	new	normal	t	<i>DDX5</i>	-	17q24.1	Hs.279806	<i>PRKCB1</i>	-	16p12.2	Hs.349845	Nasopharynx	
217	1	BI836301	new	normal	t	<i>PSCD1</i>	-	17q25.3	Hs.1050	<i>TERF2</i>	-	16q22.1	Hs.63335	Pooled pancreas and spleen, NIH_MGC_120	
218	1	BX433170, BX451285	new	normal	t	<i>FN3K</i>	-	17q25.3	Hs.151135	<i>TARBP1</i>	-	1q42.2	Hs.151518	Brain	
219	1	BX418659	new	normal	t	<i>RALBP1</i>	-	18p11.22	Hs.75447	<i>LOC92906</i>	-	2p22.1	Hs.404336	Brain	
220	1	BQ717786	new	normal	inv	<i>DAZAP1</i>	-	19p13.3	Hs.439505	<i>FKBP8</i>	-	19p13.11	Hs.173464	Dorsal root ganglia	
221	1	AK098316	new	normal	t	<i>OAZ1</i>	-	19p13.3	Hs.446427	<i>ULK2</i>	-	17p11.2	Hs.168762	Uterus	
222	1	CB153060	new	normal	inv	<i>OAZ1</i>	-	19p13.3	Hs.446427	<i>FKBP8</i>	-	19p13.11	Hs.173464	Brain	
223	1	AA706989	new	normal	t	<i>EEF2</i>	-	19p13.3	Hs.75309	<i>AUP1</i>	-	2p13.1	Hs.411480	Fetal liver and spleen	
224	1	BU664229	new	normal	t	<i>GIOT-1</i>	-	19q13.12	Hs.157203	<i>MGC24976</i>	-	15q26.3	Hs.429492	Blood, erythroid precursor cell	
225	1	BM922123	new	normal	t	-	-	19q13.2	Hs.379750	<i>KIAA0937</i>	-	11q12.1	Hs.62264	Pooled brain, lung, and testis, NIH_MGC_115	
226	1	BQ897931	new	normal	t	<i>LU</i>	-	19q13.32	Hs.155048	<i>AHS42</i>	-	2p15	Hs.122440	Brain, dorsal root ganglia	
227	1	CD512958	new	normal	t	<i>FLJ12586</i>	-	19q13.43	Hs.458377	<i>SNRPN</i>	-	15q11.2	Hs.48375	Brain, pituitary, NIH_MGC_179	
228	1	CD512862	new	normal	t	-	-	20q13.32	Hs.473192	<i>TSC22</i>	-	13q14.11	Hs.114360	Brain, pituitary, NIH_MGC_179	
229	1	CB152085	new	normal	t	-	-	21q21.1	Hs.102754	<i>SBB126</i>	-	7p15.3	Hs.376793	Brain	
230	1	CD691174	new	normal	t	<i>FLJ22349</i>	-	22q13.2	Hs.171012	<i>ZNF754</i>	-	16p13.3	Hs.50456	Nasopharynx	
231	1	AL536431, BX444897	new	normal	t	<i>SHANK3</i>	-	22q13.33	Hs.442356	<i>SNX26</i>	-	19q13.12	Hs.21036	Brain	
232	1	BM174904	new	normal	t	<i>SHANK3</i>	-	22q13.33	Hs.442356	<i>FLJ31164</i>	-	8q24.3	Hs.311783	Hippocampus	
233	1	S69272	new	unknown	t	-	-	5p13.1	Hs.364642	<i>SERPINB6</i>	-	6p25.2	Hs.41072	Unknown	
234	1	AF314817	new	unknown	inv	<i>FGFR1OP</i>	MF	6q27	Hs.180296	<i>TAGAP</i>	-	6q25.3	Hs.123581	Unknown	
235	1	AW954969	new	unknown	inv	<i>POM121</i>	-	7q11.23	Hs.380964	<i>POMZP3</i>	-	7q11.23	Hs.296380	MAGE resequences, MAGC	
236	1	BX491432	new	unknown	t	<i>SFI</i>	-	11q13.1	Hs.440835	<i>ZFP28</i>	-	19q13.43	Hs.14794	Pooled	
237	1	BX490578	new	unknown	t	-	-	11q22.3	Hs.476920	<i>HINT1</i>	-	5q23.3	Hs.256697	Pooled	

*aberration; t, translocation; inv, inversion; r, reciprocal fusion transcript is detected.

[†]M, reported in the list by Mitelman *et al.* (1); F, reported in the list by Futreal *et al.* (2); -, not in either list.

[‡]chromosomal band.

1. Mitelman, F., Johansson, B. & Mertens, F. (2004) *Nat. Genet.* **36**, 331–334.

2. Futreal, P. A., Coin, L., Marshall, M., Down, T., Hubbard, T., Wooster, R., Rahman, N. & Stratton, M. R. (2004) *Nat. Rev. Cancer* **4**, 177–183.