



Targeted Fusions Detected by Allina NGS Solid Tumor Assays*

**See specific panels for genes included*

Activated Gene	Exon Breakpoint	Fusion Partner	Exon Breakpoint	Other Variant Name
ABL1	2	EML1	17	
AKT3	3	MAGI3	10	
ALK	1	NCOA1	21	
	2	SMEK2	9	
	7	MEMO1	2	
	11	PTPN3	3	
	17	EML4	6	
	18	ACTG2	2	
		EML4	6	
	19	A2M	22	
		EML4	6	COSF1296
	20	ATIC	7	
		C2orf44	4	
		CARS	17	
		CLTC	31	
		DCTN1	26	
		EML1	13	"variant 6", ins69
		EML4	2	"variant 5a", COSF478
				COSF470
			3	p53ins
			6	ins18
			6a	"variant 3a"
			6b	"variant 3b"
		7		
		13	COSF1062	
			ins90	
		14	COSF1064	
			COSF477	
			ins2del52	
			ins124	
			del36	
		15	COSF413	
		17	COSF1366	
			COSF1367	
			ins65	
			"variant 8b", ins68	
			"variant 8a", ins30	
		18	"variant 5' ", COSF487	
		20	"variant 2a", COSF409	
			COSF730	
			21	
		GTF2IRD1	7	
		HIP1	21	

			28	
		KIF5B	15	COSF1060
				COSF1381
			17	
			24	
		KLC1	9	
		PRKAR1A	2	
		RANBP2	18	
		SEC31A	21	
			22	
		STRN	3	
		TFG	4	
			5	
			6	
		TPM1	8	
		TPM3	7	
		TPM4	7	
		TPR	15	
		TRAF1	6	
		VCL	16	
	23	CLIP4	12	
AXL	20	MBIP	4.1	
BRAF	8	AGTRAP	5	
		SLC45A3	1	
	9	AKAP9	8	
		CDC27	16	
		FAM131B	2	
		FCHSD1	13	
		KIAA1549	15	
			18	
		PAPSS1	5	
		SND1	16	
		TRIM24	9	
	10	KIAA1549	16	
			17	
	11	KIAA1549	15	
	11.1	TAX1BP1	8	
EGFR	1	EGFR	8	"EGFR variant III"
ERBB2	4	WIPF2	1	
ERG	2	TMPRSS2	1	
			2	
	3	TMPRSS2	1	
	Intron3/exon4	TMPRSS2	1	
	4	SLC45A3	1	
		TMPRSS2	1	
			2	
			3	
			4	
			5	
	5	TMPRSS2	1	
			2	
			4	

			5	
	6	TMPRSS2	1	
			2	
ETV1	4	TMPRSS2	1	
			1b	
	5	TMPRSS2	1	
			2	
ETV4	3	TMPRSS2	1b	
ETV5	2	TMPRSS2	1	
			3	
			1b	
FGFR1	2	ERLIN2	8	
	6	BAG4	2	
	8	BAG4	1	
	17	TACC1	7	
FGFR2	1	SLC45A3	1	
	2	SLC45A3	1	
	17	AFF3	8	
		BICC1	2	
		CASP7	2	
		CIT	23	
		CCAR2	4	
		MGEA5	12	
		OFD1	3	
		TACC3	11	
FGFR3	14	TACC3	11	
	15	TACC3	11	
	16	TACC3	10	
			11	
	17	AES	2	
		BAIAP2L1	2	
		ELAVL3	2	
		TACC3	4	
			5	
			6	
			7	
			8	
			9	
			10	
			10	COSF1434
			11	
			11.1	
			11.2	
			13	
	Exon 17/intron 17	TACC3	4	
			9	
	18	TACC3	7	
			4 and 5	
			10.1	
			10	
			11	
MET	2	PTPRZ1	1	

			3	
			8	
	11	CAPZA2	4	
	13	MET	15	"MET exon 14 skipping"
		OXR1	9	
	15	BAIAP2L1	9	
		C8orf34	2	
		TFG	5	
		TPR	4	
NTRK1	7	CEL	7	
	10	CD74	7	
		NFASC	20	
		SQSTM1	5	
		TFG	6	
		TPM3	7	
		TPR	21	
	10.1	IRF2BP2	1	
	11	BCAN	13	
		LMNA	2	
	12	MPRIP	14	
			18	
			21	
		RNF213	15	
		SSBP2	12	
		TPR	6	
	12.1	TPR	6	
	17	DYNC2H1	85	
	21	TPR	21	
NTRK2	12	AFAP1	14	
		VCL	16	
	13	NACC2	4	
	15	TRIM24	12	
	16	AGBL4	6	
		QKI	6	
	17	SQSTM1	5	
NTRK3	14	BTBD1	4	
		ETV6	4	
			5	
	15	COX5A	1	
		ETV6	4	
			5	
PDGFRA	2	SCAF11	1	
PPARG	2	PAX8	7	
			8	
			9	
			10	
RAF1	6	ESRP1	13	
	8	B4GALT1	1	
RET	8	KIF5B	24	
	11	CCDC6	1	COSF1271
			1	
			8	

		KIF5B	15
			24
		SPECC1L	10
		TBL1XR1	9
12		ACBD5	11
		AFAP1	3
		AKAP13	35
			36
		CCDC6	1
			2
			8
		CUX1	10
		ERC1	7
			11
			12
			17
		FKBP15	25
		GOLGA5	7
		HOOK3	11
		KIAA1468	10
		KIF5B	15
			16
			22
			23
		KTN1	29
		NCOA4	7
			6
		PCM1	29
		PRKAR1A	7
		RUFY2	9
		SPECC1L	10
		TBL1XR1	9
		TRIM24	9
		TRIM27	3
		TRIM33	16
12.1		CCDC6	1
13		CCDC6	1
ROS1	32	CD74	6
		SDC4	2
			4
		SLC34A2	4
			13
33		CD74	4
34		CD74	6
		EZR	10
		HLA-A	7
		MSN	9
		SDC4	2
			4
		SLC34A2	4
			13
Intron 34		KDEL2	5

35	CCDC6	5
	CD74	6
	CLTC	31
	EZR	10
	GOPC	8
	KDELR2	5
	LRIG3	16
	MYO5A	23
	PPFIBP1	9
	TFG	4
TPM3	7	
36	CEP85L	8
	CLIP1	19
	ERC1	11
	GOPC	4
	KIAA1598	11
	PWWP2A	1
	SLC34A2	13
	TPM3	3
	ZCCHC8	2