

Curator	Variant Name	URL	Has chimeric transcript?	Protein coding?	Reading frame?	Is this a multi-partner categorical fusion?	What are the known / established partners?	Critical preserved protein domains and Gene partner	Structural Nomenclature	Causative event	Regulatory Elements
Asa	ALK Fusion	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	KIF11 (ncbigene:4950), EML4 (ncbigene:27426)	(ALK, ALK kinase domain, Q5M731:1116-1302)	v-ALK	Rearrangement	
Asa	EML4-ALK v20-420	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No		(ALK, ALK kinase domain, Q5M731:1116-1302)	ENST00000318522:10EM:41a_1_20:ENST00000389048:8ALK:4_20_29	Rearrangement	
Asa	EGFR1-FL1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No			?		
Asa	ROS1-BYC	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	No								hg_4@IG2(ncbigene:3402)
Paolo	FGFR2-TACC3	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	FGFR2 (ncbigene:2283), TACC3 (ncbigene:10486)	FGFR2, FGFR2 Protein Kinase domain, P21802:481-770)	FGFR2, TACC3	Rearrangement	
Corina	ABL1 fusions (as fusion class)	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	BCR (ncbigene:1016), ABL1 (ncbigene:17)	ABL1, ABL1 kinase domain, P05119:242-403)	v-ABL1	Rearrangement	
Judrey	NTRK3 fusion (as fusion class)	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	ETV6, MDM4, MYB9	NTRK3, NTRK kinase domain, Q16288: P538-839)	ETV6-NTRK3	Rearrangement	
Beth	ROS1 Fusion	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	MIRN1, EGCG1 (https://www.ncbi.nlm.nih.gov/ncbiinfo/ncbi)	ROS1, Protein kinase, P96290:35-194:2215)	v-ROS1	Rearrangement	
My	FGFR1/2/3-FGFR1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes		FGFR1, Ig like CD type 1, P11382:25-118)	FGFR1/2/3-FGFR1	Rearrangement	
Asa	FGFR3 Fusion (FGFR3, TACC3)	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	TACC3 (ncbigene:10486), TEL (ncbigene:2120)	FGFR3, FGFR3 protein kinase domain, P228071:472-781)	FGFR3, TACC3	Rearrangement	
Amy	PML-RARA	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No		PML, PML Coiled-Coil Domain, P29990:228-253)	PML-RARA	Rearrangement	
Asa	KIF11-CDK2	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes					
Jan	ERG TMPRSS3-ERG	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Mostly yes?	TMPRSS3	ERG	TMPRSS3-ERG	Rearrangement	
My	FGFR1 fusion (FGFR1, TACC3) (FGFR1-HOOK3)	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	TACC3 (ncbigene:10486), HOOK3	FGFR1, Ig like CD type 1, P11382:25-118)		Rearrangement	
Judrey	KMT2A fusions (as fusion class)	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	Yes	ABL1 (ncbigene:10506), MLT1 (ncbigene:4300)	KMT2A, Bromodomain, Q03164: P1703-1748), KMT2A, SET do v-KMT2A		Rearrangement	
Paolo	KIAA1549-BRAF	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	KIAA1549(ncbigene: 57670), BRAF(ncbigene:493)	BRAF, BRAF KINASE DOMAIN, P19206:493-717)	KIAA1549-BRAF	Duplication	
Lil	STK4 fusion	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	NAB2 (NCBI Gene:495)	SH2 domain, P08001:194-517:623)	STK4-NAB2	Rearrangement	Comments: PMID: 26893114
Beth	CD14-ROS1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	CD14 (ncbigene:972), ROS1 (ncbigene:6098)	ROS1, Protein kinase, P96290:35-194:2215)	CD14-ROS1	Rearrangement	
Paolo	SHK4-NRG1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	SHK4(ncbigene:6385),NRG1(ncbigene:2084)	NRG1(NRG1 EGF-like domain), Q0297:178-222)	SHK4-NRG1	Rearrangement	
Beth	TRG-ROS1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	TRG (ncbigene:1024), ROS1 (ncbigene:6098)	ROS1, Protein kinase, P96290:35-194:2215)	TRG-ROS1	Rearrangement	
Beth	GOPC-ROS1	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	GOPC (ncbigene:57120), ROS1 (ncbigene:6098)	ROS1, Protein kinase, P96290:35-194:2215)	GOPC-ROS1	Rearrangement	
Beth	KIF18B-RET	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	KIF18B (ncbigene:5716), RET (ncbigene:5976)	RET, Protein kinase, P96290:35-194:2215)	KIF18B-RET	Rearrangement	
Beth	CCDC8-RET	https://ncicb.nci.nih.gov/xml/owl/EVS/ontology/toctitles	Yes	Yes	Yes	No	CCDC8 (ncbigene:8030), RET (ncbigene:5976)	RET, Protein kinase, P96290:35-194:2215)	CCDC8-RET	Rearrangement	

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