

Supplemental File 3. References of Figure 3. New fusion genes and their frequencies identified by NGS approaches in childhood and adult B-ALL and T-ALL.

Sense of the reference gene	Reference gene	Frequency	Partners 5'	Partners 3'	B-ALL		T-ALL		References
					Children	Adult	Children	Adult	
5'	<i>IGH</i>	>5%	<i>IGH</i>	<i>CRLF2</i>	X				[1-3]
5'		>5%	<i>IGH</i>	<i>EPOR</i>	X				[1,3-5]
5'	<i>KMT2A</i>	>5%	<i>KMT2A</i>	<i>AFF1(AF4)</i>	X	X			[6]
5'			<i>KMT2A'</i>	<i>ARHGEF12</i>		X			[6]
5'			<i>KMT2A</i>	<i>MLLT10</i>			X	X	[7]
5'			<i>KMT2A</i>	<i>AF9 (MLLT3)</i>	X				[6]
5'			<i>KMT2A</i>	<i>MAML2</i>	X	X			[8]
5'			<i>KMT2A</i>	<i>MLLT1</i>			X		[9]
5'			<i>KMT2A</i>	<i>MLLT6</i>			X		[9]
5'			<i>KMT2A</i>	<i>TNRC18</i>			X		[9]
5'	<i>MEF2D</i>	>5%	<i>MEF2D</i>	<i>BCL9</i>	X	X			[6,10,11]
5'			<i>MEF2D</i>	<i>DAZAP1</i>	X	X			[6,10,11]
5'			<i>MEF2D</i>	<i>HNRNPUL1</i>	X				[6,10,11]
5'			<i>MEF2D'</i>	<i>SS18</i>	X				[6]
5'	<i>ETV6(TEL)</i>	>5%	<i>ETV6(TEL)</i>	<i>RUNX1</i>	X				[6]
5'		<5%	<i>ETV6(TEL)</i>	<i>SLC15A5</i>			X		[12]
5'			<i>ETV6(TEL)</i>	<i>NTRK3</i>	X				[1]
5'			<i>ETV6(TEL)</i>	<i>FAM169B</i>	X				[5]
5'			<i>ETV6(TEL)</i>	<i>CD163</i>	X				[5]
5'	<i>PAX5</i>	<5%	<i>PAX5</i>	<i>AUTS2</i>	X				[6]
5'			<i>PAX5</i>	<i>NOL4L</i>	X	X			[11]
5'			<i>PAX5</i>	<i>CBFA2T3</i>	X				[6]
5'			<i>PAX5</i>	<i>AF9 (MLLT3)</i>		X			[6]
5'			<i>PAX5</i>	<i>MEGF9</i>	X				[3]
5'			<i>PAX5</i>	<i>ZCCHC7</i>		X			[6]
5'			<i>PAX5</i>	<i>ELN</i>	X				[5]
5'			<i>PAX5</i>	<i>ZNF521</i>	X				[5]
5'			<i>PAX5</i>	<i>C20orf112</i>	X				[5]
3'	<i>ABCA13</i>	<5%	<i>IKZF1</i>	<i>ABCA13</i>			X	X	[13]
3'	<i>ABL1</i>	>5% in B-ALL, ≤5% in T-ALL	<i>BCR</i>	<i>ABL1</i>	X	X	X	X	[6]
3'			<i>ETV6(TEL)</i>	<i>ABL1</i>	X		X		[1]
3'			<i>FOXP1</i>	<i>ABL1</i>	X				[14]
3'			<i>LSM14A</i>	<i>ABL1</i>	X				[1]
3'			<i>NUP153</i>	<i>ABL1</i>	X				[1]
3'			<i>NUP214(CAN)</i>	<i>ABL1</i>	X		X	X	[6,13]
3'			<i>PRRC2B</i>	<i>ABL1</i>		X			[6]
3'			<i>RANBP2</i>	<i>ABL1</i>	X				[1]
3'			<i>RCSD1</i>	<i>ABL1</i>	X				[1,2]
3'			<i>ZMZ1</i>	<i>ABL1</i>	X				[1]
3'	<i>ABL1</i>	>5%	<i>CENPC</i>	<i>ABL1</i>	X				[1]
3'	<i>ABL1</i>	<5%	<i>ZBTB16</i>	<i>ABL1</i>			X	X	[15]
3'	<i>ABL2</i>	>5%	<i>RCSD1</i>	<i>ABL2</i>	X				[1-3]
3'			<i>ZC3HAV1</i>	<i>ABL2</i>	X				[1]
3'	<i>AC016712.2</i>	<5%	<i>FARSB</i>	<i>AC016712.2</i>			X	X	[9,13]
3'	<i>AC093865.1</i>	<5%	<i>IKZF2</i>	<i>AC093865.1</i>			X	X	[13]
3'	<i>ACSF3</i>	<5%	<i>CBFA2T3</i>	<i>ACSF3</i>			X		[9]
3'	<i>AFF3</i>	<5%	<i>RUNX1</i>	<i>AFF3</i>			X		[9]
3'	<i>AHI1</i>	<5%	<i>MYB</i>	<i>AHI1</i>			X	X	[13]
3'	<i>AK7</i>	<5%	<i>CREBRF</i>	<i>AK7</i>			X		[9]
3'	<i>ALAS2</i>	<5%	<i>PAGE2B</i>	<i>ALAS2</i>			X	X	[13]
3'	<i>ANO10</i>	<5%	<i>UQCRC1</i>	<i>ANO10</i>		X			[6]
3'	<i>ARF1</i>	<5%	<i>GUK1</i>	<i>ARF1</i>			X	X	[13]

3'	ARL17A	<5%	KIAA1267	ARL17A			X	X	[13]
3'	ATG16L1	<5%	CREBBP	ATG16L1	X				[5]
3'	ATP6V0C	<5%	TSC2	ATP6V0C		X			[6]
3'	BCR	<5%	PRRC2B	BCR		X			[6]
3'	BMI1	<5%	ZEB1	BMI1			X	X	[13]
3'	C17ORF50	<5%	ING4	C17ORF50		X			[6]
3'	C19orf10	<5%	MAST3	C19orf10				X	[12]
3'	CCDC12	<5%	SETD2	CCDC12	X				[5]
3'	CDK5RAP3	<5%	SMARCC1	CDK5RAP3	X				[6]
3'	CDK6	<5%	HOXA11-AS1	CDK6			X	X	[13]
3'	CRBP1	<5%	FGFRL1	CRBP1		X			[6]
3'	CRLF2 3'	>5%	P2RY8	CRLF2	X				[1,2,5]
3'	CSF1R	<5%	SSBP2	CSF1R	X				[1,14]
3'		<5%	TBL1XR1	CSF1R	X				[1]
3'		<5%	SSBP1	CSF1R	X				[14]
3'	CTBP1	<5%	FGFRL1	CTBP1		X			[6]
3'	CTDP1	<5%	PQLC1	CTDP1	X	X			[6]
3'	CUL2	<5%	KDM4B	CUL2	X				[6]
3'	CXCR4	<5%	MGAT4A	CXCR4			X	X	[13]
3'	DCAF12	<5%	UBAP1	DCAF12		X			[6]
3'	DDX3X	<5%	MLLT10	DDX3X			X	X	[13]
3'	DGKH	<5%	CDK1	DGKH	X				[6]
3'	DNM3	<5%	DCAF8	DNM3	X				[6]
3'	DYRK1A	<5%	ERG	DYRK1A	X				[5]
3'	ERG	<5%	FUS	ERG	X				[6]
3'	ETV6	<5%	TCF3	ETV6	X				[5]
3'		<5%	NIPBL	ETV6			X		[9]
3'	EVX1	<5%	RUNX1	EVX1			X		[9]
3'	FAS	<5%	PTEN	FAS				X	[12]
3'	FBRSL1	<5%	NOC4L	FBRSL1	X				[6]
3'		<5%	POLE	FBRSL1	X				[6]
3'	FER	<5%	SSBP2	FER			X	X	[13]
3'	FGFR1	<5%	FGFR1OP	FGFR1			X		[9]
3'	FYTTD1	<5%	MFI2	FYTTD1		X			[6]
3'	GART	<5%	RUNX1	GART	X				[6]
3'	GHR	<5%	HDAC4	GHR			X		[9]
3'	GPR128	<5%	TFG	GPR128	X				[5]
3'	GPR39	<5%	MGAT5	GPR39			X	X	[13]
3'	GS1	<5%	GATA3	GS1				X	[12]
3'	HLF	<5%	TCF3	HLF	X				[6]
3'	HNRNPC	<5%	ZNF219	HNRNPC			X	X	[13]
3'	HOXA10	>5%	TCRB	HOXA10			X	X	[10]
3'	HOXA11	>5%	TCRB	HOXA11			X	X	[12]
3'		>5%	MIR181A1HG	HOXA11			X		[12]
3'		>5%	PUM1	HOXA11			X		[9]
3'		<5%	DPY19L1	HOXA11			X	X	[13]
3'	HOXA9	>5%	TCRB	HOXA9			X	X	[10]
3'	IFNWP19	<5%	CDKN2A	IFNWP19			X	X	[13]
3'	IGH	<5%	IL3	IGH		X			[16]
3'	JAK2 3'		BCR	JAK2	X				[1,14]
3'			EBF1	JAK2	X				[6]
3'			PAX5	JAK2		X			[1,6,14]
3'			SSBP2	JAK2	X				[3]
3'			SNX29	JAK2		X			[6]
3'		>5%	STRN3	JAK2	X	X			[4]
3'			PCM1	JAK2	X				[1]
3'			RFX3	JAK2	X				[1]
3'			USP25	JAK2	X				[1]
3'			TERF2	JAK2	X				[14]
3'			ZNF274	JAK2	X				[1]
3'	KIF6	<5%	KCNK17	KIF6			X	X	[13]
3'	KIF7	<5%	PRC1	KIF7	X				[6]

3'	<i>LCK</i>	<5%	<i>TRD</i>	<i>LCK</i>			X	X	[17]
3'	<i>LMO1</i>	<5%	<i>TCRB</i>	<i>LMO1</i>			X	X	[17]
3'		<5%	<i>TCRD</i>	<i>LMO1</i>			X	X	[17]
3'	<i>LMO2</i>	>5%	<i>TCRB</i>	<i>LMO2</i>			X	X	[12]
3'	<i>LYL1</i>	<5%	<i>TCRB</i>	<i>LYL1</i>			X	X	[17]
3'	<i>LYN</i>	<5%	<i>GATAD2A</i>	<i>LYN</i>	X				[1]
3'	<i>MAD1L1</i>	<5%	<i>TTYH3</i>	<i>MAD1L1</i>		X			[6]
3'	<i>MAFG</i>	<5%	<i>ASCC1</i>	<i>MAFG</i>			X	X	[13]
3'	<i>MEF2C</i>	<5%	<i>CLINT1</i>	<i>MEF2C</i>			X	X	[13]
3'	<i>MEF2D</i>	>5%	<i>SS18</i>	<i>MEF2D</i>	X				[6]
3'	<i>METRNL</i>	<5%	<i>PIM3</i>	<i>METRNL</i>	X				[6]
3'		<5%	<i>CSNK1D</i>	<i>METRNL</i>	X				[6]
3'	<i>MLLT10</i>	>5%	<i>PICALM</i>	<i>MLLT10</i>			X		[9]
3'	<i>MLLT10</i>	<5%	<i>DDX3X</i>	<i>MLLT10</i>			X	X	[13]
3'	<i>MSH6</i>	<5%	<i>SSBP2</i>	<i>MSH6</i>	X				[5]
3'	<i>MTCP1</i>	<5%	<i>TCRA</i>	<i>MTCP1</i>			X	X	[18]
3'		<5%	<i>TCRD</i>	<i>MTCP1</i>			X	X	[18]
3'	<i>NCLN</i>	<5%	<i>PALM</i>	<i>NCLN</i>		X			[6]
3'	<i>NKD2</i>	<5%	<i>SLC12A7</i>	<i>NKD2</i>		X			[6]
3'	<i>NKX2-2</i>	>5%	<i>TCRG</i>	<i>NKX2-2</i>			X		[19]
3'	<i>NKX2-5</i>	<5%	<i>BCL11B</i>	<i>NKX2-5</i>			X		[9]
3'	<i>NLRP6</i>	<5%	<i>RP11-326C3.2</i>	<i>NLRP6</i>			X	X	[13]
3'	<i>NOTCH1</i>	<5%	<i>SEC16A</i>	<i>NOTCH1</i>			X		[9]
3'	<i>NPR2</i>	<5%	<i>HINT2</i>	<i>NPR2</i>	X				[6]
3'	<i>NUP214</i>	>5%	<i>SET</i>	<i>NUP214</i>				X	[9,19]
3'	<i>NUP98</i>	<5%	<i>PSIP1</i>	<i>NUP98</i>			X	X	[13]
3'	<i>NUTM1</i>	<5%	<i>ACIN1</i>	<i>NUTM1</i>	X				[6]
3'	<i>PAQR6</i>	<5%	<i>SMG5</i>	<i>PAQR6</i>				X	[12]
3'	<i>PAX5</i>	≤5%	<i>EMILIN2</i>	<i>PAX5</i>		X			[6]
3'	<i>PBX1</i>	>5%	<i>TCF3</i>	<i>PBX1</i>	X	X			[6]
3'	<i>PDE9A</i>	<5%	<i>WDR4</i>	<i>PDE9A</i>	X				[6]
3'	<i>PDGFRA</i>	<5%	<i>FIP1L1</i>	<i>PDGFRA</i>	X				[3]
3'	<i>PDGFRB</i>	<5%	<i>ETV6(TEL)</i>	<i>PDGFRB</i>		X			[1,4]
3'			<i>TNIP1</i>	<i>PDGFRB</i>	X				[1,4]
3'			<i>ZMYND8</i>	<i>PDGFRB</i>	X				[1,4]
3'			<i>CD74</i>	<i>PDGFRB</i>	X				[6]
3'			<i>EBF1</i>	<i>PDGFRB</i>	X				[1,2,4,14]
3'			<i>ATF7IP</i>	<i>PDGFRB</i>	X				[1,4]
3'	<i>PLAGL1</i>	<5%	<i>MYB</i>	<i>PLAGL1</i>			X		[9]
3'	<i>PNRC1</i>	<5%	<i>SYNCRI</i>	<i>PNRC1</i>	X				[5]
3'	<i>PPP1R36</i>	<5%	<i>UBA2</i>	<i>PPP1R36</i>	X				[6]
3'	<i>PRKAR1B</i>	<5%	<i>PCMTD1</i>	<i>PRKAR1B</i>			X	X	[13]
3'	<i>PSIP1</i>	<5%	<i>NUP98</i>	<i>PSIP1</i>			X	X	[13]
3'	<i>PSMD11</i>	<5%	<i>NF1</i>	<i>PSMD11</i>			X		[9]
3'	<i>PTPRK</i>	<5%	<i>L3MBTL3</i>	<i>PTPRK</i>			X	X	[13]
3'	<i>PVT1</i>	<5%	<i>UGCG</i>	<i>PVT1</i>			X	X	[13]
3'	<i>RAB38</i>	<5%	<i>CTSC</i>	<i>RAB38</i>			X	X	[13]
3'	<i>RBM38</i>	<5%	<i>SS18L1</i>	<i>RBM38</i>	X				[5]
3'	<i>RNF126</i>	<5%	<i>OAZ1</i>	<i>RNF126</i>			X	X	[13]
3'	<i>RP11-326C3.2</i>	<5%	<i>NLRP6</i>	<i>RP11-326C3.2</i>			X	X	[13]
3'	<i>RPL35P4</i>	<5%	<i>CDK6</i>	<i>RPL35P4</i>			X	X	[13]
3'	<i>SCIN</i>	<5%	<i>NDUFA4</i>	<i>SCIN</i>		X			[6]
3'	<i>SET</i>	<5%	<i>FUS</i>	<i>SET</i>			X	X	[13]
3'	<i>SLC7A5</i>	<5%	<i>PIM3</i>	<i>SLC7A5</i>	X				[6]
3'		<5%	<i>CD81</i>	<i>SLC7A5</i>	X				[6]
3'		<5%	<i>CBFA2T3</i>	<i>SLC7A5</i>	X				[5]
3'	<i>SLC7A6</i>	<5%	<i>CTCF</i>	<i>SLC7A6</i>			X		[9]
3'	<i>SMARCA2</i>	<5%	<i>ZNF362</i>	<i>SMARCA2</i>		X			[6]
3'	<i>SMCHD1</i>	<5%	<i>USP9X</i>	<i>SMCHD1</i>	X				[5]
3'	<i>SNX29</i>	>5%	<i>JAK2</i>	<i>SNX29</i>		X			[6]
3'	<i>SOX8</i>	<5%	<i>TRAC</i>	<i>SOX8</i>				X	[12]

3'	<i>SPI1</i>	<5%	<i>STMN1</i>	<i>SPI1</i>			X		[9]
3'	<i>SPI1</i>	<5%	<i>TCF7</i>	<i>SPI1</i>			X		[9]
3'	<i>STAT3</i>	<5%	<i>STAT5B</i>	<i>STAT3</i>			X	X	[13]
3'	<i>STIP1</i>	<5%	<i>RTN3</i>	<i>STIP1</i>	X				[6]
3'	<i>TAL1</i>	>5%	<i>STIL</i>	<i>TAL1</i>			X	X	[9,12]
3'	<i>TAL1</i>	>5%	<i>TCRB</i>	<i>TAL1</i>			X	X	[12]
3'	<i>TCRD</i>	<5%	<i>TLX1NB</i>	<i>TCRD</i>			X		[9]
3'		<5%	<i>NKX2-1-AS1</i>	<i>TCRD</i>			X		[9]
3'	<i>TGIF1</i>	<5%	<i>MBP</i>	<i>TGIF1</i>	X				[6]
3'	<i>THEM7P</i>	<5%	<i>WT1</i>	<i>THEM7P</i>				X	[12]
3'	<i>TMEM259</i>	<5%	<i>PTBP1</i>	<i>TMEM259</i>	X				[6]
3'	<i>TNFSF18</i>	<5%	<i>RFWD2</i>	<i>TNFSF18</i>		X			[6]
3'	<i>TNK2</i>	<5%	<i>MFI2</i>	<i>TNK2</i>		X			[6]
3'	<i>TPM3</i>	<5%	<i>B4GALT3</i>	<i>TPM3</i>			X	X	[13]
3'		<5%	<i>JAK2</i>	<i>TPM3</i>			X	X	[13]
3'	<i>TRBC1</i>	<5%	<i>RIC3</i>	<i>TRBC1</i>			X	X	[13]
3'	<i>TRBC2</i>	<5%	<i>IL7R</i>	<i>TRBC2</i>			X	X	[13]
3'	<i>TRBJ2-7</i>	<5%	<i>PLAG1</i>	<i>TRBJ2-7</i>			X	X	[13]
3'	<i>TRDC</i>	>5%	<i>TAL1</i>	<i>TRDC</i>				X	[12]
3'		<5%	<i>SFTA3</i>	<i>TRDC</i>			X	X	[13]
3'		<5%	<i>TLX1NB</i>	<i>TRDC</i>			X	X	[5]
3'	<i>TSLP</i>	<5%	<i>IQGAP2</i>	<i>TSLP</i>	X				[13]
3'	<i>TYK2</i>	<5%	<i>MYB</i>	<i>TYK2</i>	X				[5]
3'	<i>UFC1</i>	<5%	<i>VANGL2</i>	<i>UFC1</i>			X		[9]
3'	<i>USP9Y</i>	<5%	<i>TTTY15</i>	<i>USP9Y</i>				X	[12]
3'	<i>WDFY2</i>	<5%	<i>RB1</i>	<i>WDFY2</i>		X			[6]
3'	<i>XIST</i>	<5%	<i>KDM6A</i>	<i>XIST</i>	X				[5]
3'	<i>ZBTB18</i>	<5%	<i>HNRNPU</i>	<i>ZBTB18</i>	X				[6]
3'	<i>ZFP36L1</i>	<5%	<i>SFPQ</i>	<i>ZFP36L1</i>			X		[9]
3'	<i>ZNF219</i>	<5%	<i>HNRNPC</i>	<i>ZNF219</i>			X	X	[6]
3'	<i>ZNF362</i>	<5%	<i>SMARCA2</i>	<i>ZNF362</i>	X				[13]
3'	<i>ZNF384 3'</i>	>5%	<i>CREBBP</i>	<i>ZNF384</i>	X				[6,10]
3'			<i>EP300</i>	<i>ZNF384</i>	X	X			[6]
3'			<i>EWSR1</i>	<i>ZNF384</i>	X	X			[6]
3'			<i>TAF15</i>	<i>ZNF384</i>		X			[6]
3'			<i>TCF3</i>	<i>ZNF384</i>	X				[6]

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