

Table S3. Gaussian Kernel Convolution (GKC) common insertion sites (CIS) identified in all the samples (n=71 leukaemias). *Total number of insertions in the gene (this may be higher than number of number of 'unique' insertions as some samples had multiple insertions in the same gene at different sites).

CIS gene	Peak_location (chr: basepair)	GKC scale	Insertions*
<i>Cebpa</i>	7: 35890447	15000	68
<i>Six4</i>	12: 74179957	240000	48
<i>Intergenic</i>	7: 37321305	15000	42
<i>Mecom</i>	3: 30037503	15000	39
<i>Intergenic</i>	6: 31122809	15000	39
<i>Foxp1</i>	6: 99136769	15000	30
<i>Arfp1 Glt28d2</i>	3: 85661804	240000	27
<i>Defb42</i>	14: 63687942	240000	26
<i>Ddx19b</i>	8: 113549394	240000	25
<i>Cnr2</i>	4: 135467981	15000	24
<i>Map6d1</i>	16: 20258171	240000	24
<i>Fsd2</i>	7: 88702551	240000	24
<i>Intergenic</i>	16: 21290121	240000	22
<i>Osbp1a</i>	18: 12985983	240000	22
<i>Sfi1</i>	11: 3069898	15000	21
<i>Eif4e3</i>	6: 99274720	15000	21
<i>Pcx</i>	19: 4603452	120000	21
<i>Raf1</i>	6: 115597013	120000	20
<i>Il2rb</i>	15: 78326059	15000	20
<i>Serp1</i>	3: 58327662	120000	20
<i>Pik3r5</i>	11: 68272127	15000	19
<i>Rras2</i>	7: 121252464	120000	19
<i>Csnk2a1</i>	2: 152088550	240000	19
<i>Srpx2</i>	X: 130451211	240000	19
<i>Fam168a</i>	7: 107931262	120000	19
<i>Epor</i>	9: 21768833	15000	18
<i>9230109A22Rik</i>	15: 25096146	75000	18
<i>Slc16a10</i>	10: 39816003	50000	17
<i>Mllt3</i>	4: 87566232	75000	17
<i>Mecom</i>	3: 29906523	15000	16
<i>Ets1</i>	9: 32513642	15000	16
<i>Ikzf1</i>	11: 11653827	15000	16
<i>Kit</i>	5: 75852607	50000	16
<i>Frs2</i>	10: 116523739	120000	16
<i>Cecr2</i>	6: 120608500	120000	16
<i>Ccnd2</i>	6: 127152822	30000	15
<i>Rasgef1a</i>	6: 118035931	75000	15
<i>Nrp1</i>	8: 131032617	120000	15
<i>Aldh1a2</i>	9: 71160731	120000	15
<i>Ascl2</i>	7: 150162575	15000	14
<i>Mef2c</i>	13: 83668056	15000	14
<i>Bach2</i>	4: 32377764	15000	14
<i>Col4a2</i>	8: 11336723	50000	14

<i>Intergenic</i>	13: 97620341	75000	14
<i>Flt3</i>	5: 148211592	15000	13
<i>Gata1</i>	X: 7539896	15000	13
<i>Myb</i>	10: 20858882	15000	13
<i>3930402G23Rik</i>	8: 10931226	50000	13
<i>Spic</i>	10: 88146370	15000	12
<i>Csf3r</i>	4: 125699379	15000	12
<i>Ccnd3</i>	17: 47691927	15000	12
<i>2610034M16Rik</i>	17: 59130826	50000	12
<i>Tcf12</i>	9: 71846598	30000	11
<i>AC123870.3-1</i>	15: 102469493	30000	11
<i>Rreb1</i>	13: 37926084	30000	11
<i>Ano2</i>	6: 125817510	50000	11
<i>Rasgrf1</i>	9: 89866066	15000	10
<i>Acp6</i>	3: 96984231	30000	10
<i>Fars2</i>	13: 36302975	50000	10
<i>Clint1</i>	11: 45726366	30000	10
<i>Nhedc1</i>	3: 135061001	50000	10
<i>Xpo1</i>	11: 23214718	30000	10
<i>Phf16</i>	X: 20086940	50000	10
<i>Intergenic</i>	11: 54065353	15000	9
<i>Elmo1</i>	13: 20646492	30000	9
<i>Crbn Trnt1</i>	6: 106732409	30000	9
<i>Gm1968</i>	16: 29977681	15000	9
<i>Chid1</i>	7: 148715091	50000	9
<i>Snx29</i>	16: 11745111	50000	9
<i>AC122769.1</i>	15: 55780830	50000	9
<i>Prdm16</i>	4: 153963946	15000	8
<i>Ssbp3</i>	4: 106568404	15000	8
<i>Jak1</i>	4: 100879707	15000	8
<i>Intergenic</i>	15: 3548669	30000	8
<i>AC113961.3</i>	19: 29237198	50000	8
<i>Kctd2</i>	11: 115287349	15000	7
<i>Ash1l</i>	3: 88762314	15000	7
<i>Irf4</i>	13: 30840234	15000	7
<i>Stat5b</i>	11: 100684888	15000	7
<i>Setd2</i>	9: 110459550	15000	7
<i>Intergenic</i>	2: 167602993	15000	7
<i>Erg</i>	16: 95608933	15000	7
<i>Gja5</i>	3: 96748623	30000	7
<i>Akt2</i>	7: 28388709	15000	6
<i>Cebpe</i>	14: 55323489	15000	6
<i>Csf2rb2</i>	15: 78135740	15000	6
<i>Plag1</i>	4: 3858020	15000	6
<i>Intergenic</i>	7: 152250219	15000	6
<i>Plagl2</i>	2: 153065323	15000	6
<i>Slc1a6</i>	10: 78236502	15000	6
<i>Csf1r</i>	18: 61257836	15000	6
<i>Intergenic</i>	13: 28929548	15000	6
<i>Ambra1</i>	2: 91664213	15000	6

<i>Nf1</i>	11: 79273981	15000	6
<i>Abcc4</i>	14: 119025799	30000	6
<i>Pdpk1</i>	17: 24258342	15000	6
<i>Sf1</i>	19: 6376208	15000	6
<i>Hdac7</i>	15: 97657213	15000	5
<i>Sox6</i>	7: 122885393	15000	5
<i>D16H22S680E</i>	16: 18332285	15000	5
<i>AC135633.1</i>	19: 12924207	15000	5