

Table S1. Gene expression analysis of *TEL-AML1* BCP-ALL cases. Gene expression data were obtained using splenic RNA from 15 *ETV6-RUNX1* BCP-ALL cases and 3 *ETV6-RUNX1* non-diseased mice and analysed on Illumina Mouse WG-6 v2.0 beadchips. Data were analysed and p-value adjusted (as described in the Methods) to yield a sorted list of differentially expressed genes. The differentially expressed genes with an adjusted p value <0.05 are listed. Differential expression levels are shown as log fold change (LogFC) in the BCP-ALL samples relative to the controls (a negative value indicates decreased expression).

Genomic location (chr:bp)	ReMOAT gene symbol	Target ID	Probe ID	LogFC	Average expression	Adjusted p-value
17:8449487-8449536	<i>Ccr6</i>	<i>CCR6</i>	4590639	-0.925	8.126	0.000
10:59644561-59644610	<i>Chst3</i>	<i>CHST3</i>	4050437	-1.760	8.430	0.001
11:44607402-44607451	<i>AK051309</i>	<i>D130032J17RIK</i>	1850474	-2.026	8.182	0.002
12:114652832-114652881	<i>abParts</i>	<i>LOC380797</i>	630482	-1.058	8.051	0.002
12:114653799-114653848	<i>Igh</i>	<i>LOC382646</i>	430139	-1.310	8.104	0.003
17:46550651-46550700	<i>Zfp318</i>	<i>ZFP318</i>	4780093	-1.237	8.964	0.003
17:8449913-8449962	<i>Ccr6</i>	<i>CCR6</i>	1010132	-2.026	8.479	0.003
10:59644633-59644682	<i>Chst3</i>	<i>CHST3</i>	2810315	-1.706	8.520	0.003
3:87189075-87189124	<i>Fcrl1</i>	<i>FCRL1</i>	6980440	-1.051	8.141	0.003
3:87189076-87189125	<i>Fcrl1</i>	<i>FCRL1</i>	2490066	-1.243	8.231	0.003
10:127527167-127527216	<i>Atp5b</i>	<i>ATP5B</i>	1470600	0.568	15.381	0.004
12:114646043-114646092	<i>Igh</i>	<i>LOC382646</i>	6980681	-1.622	8.121	0.004
10:53695368-53695417	<i>Man1a</i>	<i>MAN1A</i>	1090332	-0.761	7.764	0.004
4:32333305-32333354	<i>AK051661</i>	<i>D130062J21RIK</i>	5390309	-0.545	7.789	0.004
1:175628286-175628335	<i>E430029J22Rik</i>	<i>LOC623121</i>	1090647	-1.495	8.713	0.004
9:44320064-44320113	<i>Cxcr5</i>	<i>CXCR5</i>	50091	-1.669	8.342	0.004
7:133552301-133552350	<i>Cd19</i>	<i>CD19</i>	6480746	-1.360	8.114	0.004
12:114646044-114646093	<i>Igh</i>	<i>LOC382646</i>	2100564	-1.314	8.255	0.004
7:31650987-31651036	<i>Cd22</i>	<i>CD22</i>	940504	-1.627	8.227	0.005
19:44469115-44469164	<i>Scd1</i>	<i>SCD1</i>	3890274	-2.147	8.908	0.005
9:70103619-70103668	<i>AK090210</i>	<i>G630019A19RIK</i>	4760435	-0.633	7.886	0.006
7:133552906-133552955	<i>Cd19</i>	<i>CD19</i>	6280037	-1.643	8.277	0.006
9:70162037-70162086	<i>AK082972</i>	<i>4833444G19RIK</i>	7550592	-0.563	7.866	0.007
3:52157092-52157141	<i>Foxo1</i>	<i>FOXO1</i>	4290112	-0.618	7.810	0.007
8:3682850-	<i>Fcer2a</i>	<i>FCER2A</i>	4590095	-0.533	7.700	0.007

3682899						
5:44260750-44260799	<i>AK043442</i>	<i>CD38</i>	2120477	-0.473	7.745	0.009
7:51781460-51781509	<i>Spib</i>	<i>SPIB</i>	3840392	-0.739	8.073	0.009
7:31651548-31651597	<i>Cd22</i>	<i>CD22</i>	5490608	-0.961	7.987	0.009
6:67904395-67904444	<i>abParts</i>	<i>LOC635860</i>	5080382	-0.587	7.758	0.009
X:71024166-71024215	<i>Srpk3</i>	<i>SRPK3</i>	20465	-1.740	8.380	0.009
11:44819589-44819638	<i>Ebf1</i>	<i>A730040I05RIK</i>	4250605	-0.734	8.115	0.009
7:69494739-69494788	<i>Ndn</i>	<i>NDN</i>	4490367	-0.780	8.343	0.009
16:11661263-11661312	<i>Snx29</i>	<i>4933437K13RIK</i>	3370037	-0.884	8.235	0.010
19:41025454-41025503	<i>Blnk</i>	<i>BLNK</i>	4390661	-0.655	7.897	0.010
2:121264974-121265023	<i>Ell3</i>	<i>ELL3</i>	6590368	-1.907	8.483	0.011
14:63999590-63999639	<i>Blk</i>	<i>BLK</i>	2120343	-0.457	7.655	0.011
19:11324445-11324494	<i>Ms4a1</i>	<i>MS4A1</i>	1780187	-0.794	8.001	0.011
9:44320265-44320314	<i>Cxcr5</i>	<i>CXCR5</i>	1470408	-2.099	8.723	0.011
14:63992007-63992056	<i>Blk</i>	<i>BLK</i>	3140491	-2.129	8.691	0.011
1:95772914-95772963	<i>Gal3st2</i>	<i>GAL3ST2</i>	5130300	-0.908	8.037	0.012
18:65614139-65614188	<i>Malt1</i>	<i>MALT-1</i>	4070768	-0.679	8.022	0.012
14:63991868-63991917	<i>Blk</i>	<i>BLK</i>	3290279	-2.558	8.783	0.014
1:175529358-175529405	<i>E430029J22Rik</i>	<i>LOC623121</i>	4730246	-0.588	7.788	0.015
8:3682848-3682897	<i>Fcer2a</i>	<i>FCER2A</i>	6520630	-0.599	7.807	0.015
5:102981256-102981305	<i>Arhgap24</i>	<i>ARHGAP24</i>	3800528	-0.521	7.651	0.015
7:50673331-50673380	<i>Siglecg</i>	<i>SIGLECG</i>	2850553	-1.399	8.473	0.016
9:116486823-116486872	<i>Rbms3</i>	<i>RBMS3</i>	70497	-0.627	7.928	0.016
19:41025453-41025502	<i>Blnk</i>	<i>BLNK</i>	6840424	-1.081	8.112	0.017
16:14195025-14195074	<i>Myh11</i>	<i>MYH11</i>	510288	-0.673	7.881	0.017
18:21814255-21814304	<i>AK156636</i>	<i>4930426D05RIK</i>	3360674	-0.969	8.073	0.017
12:117003598-117003647	<i>abParts</i>	<i>LOC677648</i>	610433	-0.774	8.183	0.018
18:37347066-37347115	<i>Pcdha6</i>	<i>PCDHA7</i>	3120639	-0.704	7.826	0.018
13:103494049-103494098	<i>Cd180</i>	<i>LY78</i>	2810220	-0.533	7.988	0.018
14:64084105-64084154	<i>Fam167a</i>	<i>BC065085</i>	4040139	-0.516	7.852	0.018
5:122691946-122691995	<i>Hvcn1</i>	<i>HVCN1</i>	7510008	-1.772	10.248	0.019

5:140816292-140816341	<i>Snx8</i>	SNX8	60544	-1.061	8.964	0.019
2:91052192-91052241	<i>Acp2</i>	ACP2	5260253	-0.701	8.867	0.020
13:24522406-24522455	<i>Cmah</i>	CMAH	3140441	-0.843	8.190	0.020
15:91618968-91619017	<i>Lrrk2</i>	9330188B09RIK	1580189	-0.788	8.073	0.020
13:34720338-34720387	<i>1300014I06Rik</i>	1300014I06RIK	4880132	-0.713	8.150	0.020
19:11532590-11532639	<i>Ms4a4b</i>	LY116	5290327	-0.422	7.731	0.020
5:65316201-65316250	<i>Tlr1</i>	TLR1	6940719	-0.718	8.120	0.022
1:172848244-172848293	<i>Fcrla</i>	FCRLA	4050093	-1.228	8.179	0.023
7:25686727-25686776	<i>Cd79a</i>	LOC100047815	1340553	-2.488	9.160	0.023
4:8712667-8712716	<i>Chd7</i>	CHD7	1510041	-0.718	8.164	0.023
15:91645103-91645152	<i>Lrrk2</i>	LRRK2	7200209	-0.951	8.238	0.023
15:57670992-57671041	<i>Zhx2</i>	ZHX2	6350201	-0.491	7.857	0.024
11:106174034-106174083	<i>Cd79b</i>	CD79B	2060543	-2.609	9.839	0.024
2:130895174-130895223	<i>Siglec1</i>	SIGLEC1	4570458	-1.384	8.305	0.024
5:96389686-96389735	<i>Cxcl13</i>	CXCL13	3060040	-2.351	9.108	0.024
6:41102146-41102195	<i>TCR-beta_chain</i>	TRBV11_AE0006 63_T_CELL_REC EPTOR_BETA_V ARIABLE_11_244	1070689	-0.671	7.634	0.025
11:106172863-106172912	<i>Cd79b</i>	CD79B	2060373	-2.864	10.506	0.026
8:3682151-3682200	<i>Fcer2a</i>	FCER2A	2750706	-1.553	8.284	0.026
11:61485756-61485805	<i>Grap</i>	GRAP	510162	-0.792	8.235	0.026
X:133530699-133530748	<i>Zcchc18</i>	ZCCHC18	3890750	-1.356	8.926	0.029
7:138128572-138128621	<i>Htra1</i>	HTRA1	6220703	-1.001	8.540	0.029
2:180962481-180962530	<i>BC006779</i>	BC006779	450706	-0.951	8.752	0.030
7:138128732-138128781	<i>Htra1</i>	HTRA1	6980093	-1.028	8.307	0.030
9:13235818-13235867	<i>Phxr4</i>	PHXR4	520286	-1.583	8.955	0.030
6:68705065-68705114	<i>abParts</i>	LOC384410	3390709	-0.542	8.013	0.030
1:172848314-172848363	<i>Fcrla</i>	FCRLA	1260477	-2.236	8.915	0.030
10:122432461-122432510	<i>Mon2</i>	2610528O22RIK	3710687	-0.514	9.828	0.031
11:3059934-3059983	<i>AK007420</i>	4933439C20RIK	7510390	-1.726	9.246	0.032
5:64565164-64565213	<i>mKIAA1108</i>	LOC100046817	4060452	-1.402	8.751	0.032
4:41986290-41986339	<i>Ccl21b</i>	CCL21C	6370475	-2.430	8.781	0.032

9:108960013-108960062	<i>Shisa5</i>	<i>SCOTIN</i>	1260673	-1.694	10.091	0.033
8:106971791-106971840	<i>Ccdc79</i>	<i>4933403K19RIK</i>	1990315	-0.449	7.562	0.033
5:122692182-122692231	<i>Hvcn1</i>	<i>HVCN1</i>	620646	-1.682	9.864	0.033
10:67568316-67568365	<i>AK145496</i>	<i>9930108O06RIK</i>	3400521	-0.398	7.909	0.033
2:124444504-124444553	<i>AK030367</i>	<i>5330403J18RIK</i>	5960500	-0.728	8.513	0.033
17:34381196-34381245	<i>H2-Ob</i>	<i>H2-OB</i>	6760167	-1.983	9.227	0.033
1:12851034-12851083	<i>Sulf1</i>	<i>SULF1</i>	7330086	-0.595	8.149	0.033
1:172851775-172851824	<i>Fcrla</i>	<i>FCRLA</i>	5220176	-0.991	8.079	0.034
10:41627921-41627970	<i>Sesn1</i>	<i>SESN1</i>	2480475	-1.378	10.103	0.034
10:75412095-75412144	<i>Vpreb3</i>	<i>VPREB3</i>	4900500	-1.328	8.595	0.035
6:116083604-116083653	<i>Tmcc1</i>	<i>E030038D23RIK</i>	2710433	-0.760	8.489	0.035
3:86550448-86550497	<i>Lrba</i>	<i>LRBA</i>	7040750	-0.327	7.571	0.035
4:42249788-42249837	<i>Ccl19</i>	<i>LOC100043918</i>	1740196	-1.776	8.524	0.035
4:94631204-94631253	<i>Mysm1</i>	<i>C130067A03RIK</i>	2710681	-0.418	7.766	0.035
4:138013791-138013840	<i>Camk2n1</i>	<i>CAMK2N1</i>	1580349	-0.880	8.333	0.035
14:122310842-122310891	<i>Gpr18</i>	<i>GPR18</i>	2750543	-1.794	9.124	0.035
9:70247389-70247438	<i>Myo1e</i>	<i>MYO1E</i>	5870201	-1.301	8.793	0.036
16:20619006-20619055	<i>Ece2</i>	<i>1810009K13RIK</i>	3450039	0.462	8.599	0.038
8:47004761-47004810	<i>Pdlim3</i>	<i>PDLIM3</i>	2000482	-0.680	8.157	0.038
7:63034080-63034129	<i>Siglech</i>	<i>SIGLECH</i>	6220164	-0.635	8.033	0.038
19:5651641-5651690	<i>Sipa1</i>	<i>SIPA1</i>	4760725	-0.557	8.589	0.040
1:55227183-55227232	<i>Rftn2</i>	<i>RFTN2</i>	4860441	-0.543	8.012	0.040
15:54670947-54670996	<i>Enpp2</i>	<i>ENPP2</i>	3360162	-1.078	8.437	0.042
3:94783497-94783546	<i>Pi4kb</i>	<i>D330001D04RIK</i>	4010594	-0.443	8.461	0.042
11:100208683-100208732	<i>Hap1</i>	<i>HAP1</i>	1580309	-1.019	8.832	0.042
2:180962608-180962657	<i>BC006779</i>	<i>BC006779</i>	6420170	-1.261	8.789	0.043
6:68686484-68686533	<i>abParts</i>	<i>IGK-V38</i>	830576	-1.622	8.773	0.044
11:97898098-97898147	<i>Stac2</i>	<i>STAC2</i>	610047	-0.413	7.811	0.045
7:25688334-25688383	<i>AK040093</i>	<i>ARHGEF1</i>	6960608	-1.057	8.855	0.045
4:43461151-43461200	<i>Cd72</i>	<i>CD72</i>	5700528	-2.090	9.323	0.045
10:96081845-96081894	<i>Btg1</i>	<i>BTG1</i>	6480703	-1.179	12.739	0.045

7:91081427-91081476	9930013L23Rik	6330404C01RIK	2470228	-0.945	8.228	0.045
13:113658077-113658126	Skiv2l2	SKIV2L2	4640670	0.973	10.351	0.045
13:30858541-30858590	Irf4	IRF4	1010397	-1.187	8.523	0.045
3:87271043-87271092	Fcrl5	FCRL5	3450673	-0.399	7.793	0.045
3:115589133-115589182	AK137339	SCL0002007.1_97	6400687	-0.692	8.666	0.046
6:48519705-48519754	Rarres2	RARRES2	1260528	-0.516	8.105	0.046
3:123194457-123194506	Prss12	PRSS12	4610446	-0.278	7.609	0.046
14:75451779-75451825	5031414D18Rik	5031414D18RIK	6560048	-0.937	8.181	0.046
5:63048339-63048388	AK040499	A430103M24RIK	4060470	-0.473	8.043	0.046
1:87578841-87578890	Sp100	SP100	6280221	-0.916	8.895	0.046
4:155024881-155024930	Mmp23	MMP23	4180050	-0.654	8.396	0.046
6:68221193-68221242	abParts	IGK-V5	2030372	-1.646	9.553	0.046
19:34326262-34326311	Acta2	ACTA2	3130136	-0.535	8.134	0.046
8:77624071-77624120	Hmox1	HMOX1	5050463	-0.485	7.980	0.046
6:70024135-70024184	abParts	LOC100047053	5700347	-1.070	8.226	0.047
10:96969288-96969337	Dcn	DCN	4280139	-0.810	8.059	0.047
19:21671949-21671998	1110059E24Rik	1110059E24RIK	4250343	-0.902	9.370	0.047
1:53812465-53812514	Stk17b	STK17B	6270091	-1.649	11.102	0.047
4:42248512-42248561	Ccl19	CCL19	4220717	-1.901	9.017	0.047
6:68170563-68170612	M19910	LOC381776	3360687	-1.575	8.586	0.048
5:40005562-40005611	Hs3st1	HS3ST1	4490445	-1.025	8.570	0.048
1:122371247-122371296	Marco	MARCO	2850626	-0.420	7.922	0.049
5:75594086-75594135	Pdgfra	PDGFRA	5290521	-0.897	8.355	0.049
9:79616338-79616387	Tmem30a	D9WSU20E	780021	-0.528	8.652	0.049
2:164896568-164896617	Cd40	CD40	4900309	-0.461	7.929	0.049
4:42231944-42231993	Ccl21a	CCL21A	1710612	-2.723	9.299	0.049
3:136373872-136373921	AK051902	D230017C05RIK	6560176	-0.419	7.990	0.049