

**Table 1.** Genes differentially expressed between adult T-ALL overexpressing ABL1 and the remaining T-ALL cases. Genes are rank-ordered according to their p-value.

Probeset ID	Gene symbol	p-value	FC	GenBank ID	Gene function	Chromosome location	Expression in "high" ABL1 cases
38847_at	MELK	<10 <sup>-4</sup>	2.79	NM_014791	Protein amino acid phosphorylation	9p13.2	High
37999_at	CPOX	<10 <sup>-4</sup>	2.86	NM_000097	Heme biosynthesis	3q12	High
38711_at	CLASP2	<10 <sup>-4</sup>	2.33	NM_015097	Cell division	3p23	High
40822_at	NFATC3	0.00011	2.06	NM_004555	Regulation of transcription from RNA polymerase II promoter	16q22.2	High
41638_at	PPWD1	0.00025	2.13	NM_015342	Protein folding	5q12.3	High
41278_at	BAF53	0.00085	2.08	NM_004301	Regulation of transcription, DNA-dependent	3q26.33	High
39388_at	CAMK2G	0.00088	2.32	NM_001222	Protein amino acid phosphorylation	10q22	High
32916_at	PTPRE	0.0011	2.13	NM_006504	Protein amino acid dephosphorylation	10q26	High
36511_at	SACM1L	0.0014	2.16	NM_014016	Unknown	3p21.3	High
38834_at	TOPBP1	0.0015	2.55	NM_007027	DNA replication and chromosome cycle	3q22.1	High
33301_g_at	CDC2L1	0.0017	2.16	NM_001787	Regulation of transcription, DNA-dependent	1p36	High
32767_at	SIL	0.0025	2.23	NM_003035	Cell proliferation	1p32	High
40828_at	ARHGEF7	0.0025	2.08	NM_003899	Signal transduction	13q34	High
38431_at	MAPK9	0.0026	2.24	NM_002752	Protein amino acid phosphorylation	5q35	High
35663_at	NPTX2	0.0028	3.68	NM_002523	Synaptic transmission	7q21.3-q22.1	High
38325_at	MINPP1	0.003	2.58	NM_004897	Multiple inositol-polyphosphate phosphatase activity	10q23	High
35747_at	SDFR1	0.0035	2.28	NM_012428	Receptor	15q22	High
32954_at	RIF1	0.0038	2.54	NM_018151	Response to DNA damage stimulus	2q23.3	High
34893_at	NDUFV2	0.0043	2.02	NM_021074	Mitochondrial electron transport	18p11.31-p11.2	High
35364_at	APPBP1	0.0044	2.02	NM_001018159	Ubiquitin cycle	16q22	High
40334_at	CSTF2	0.0072	2.34	NM_001325	mRNA processing	Xq22.1	High
40082_at	ACSL1	0.0081	3.04	NM_001995	Lipid metabolism	4q34-q35	High
38353_at	TUBGCP3	0.0085	2.2	NM_006322	Microtubule cytoskeleton organization	13q34	High
39379_at	C1orf121	0.0094	2.06	NM_016076	Unknown	1q44	High
37305_at	EZH2	0.011	2.16	NM_004456	Regulation of transcription, DNA-dependent	7q35-q36	High
39677_at	PSF1	0.011	2.58	NM_021067	DNA replication	20p11.21	High
33772_at	PTGER4	0.013	3.09	NM_000958	Immune response	5p13.1	High
818_s_at	ATRX	0.013	2.12	NM_000489	Regulation of transcription, DNA-dependent	Xq13.1-q21.1	High
582_g_at	NR2C1	0.014	2.63	NM_001032287	Regulation of transcription, DNA-dependent	12q22	High
40018_at	NUPL1	0.014	2.58	NM_001008564	Transport	13q12.13	High
33219_at	USP33	0.018	2.03	NM_015017	Protein deubiquitination	1p31.1	High
41129_at	TMEM41B	0.02	2.45	NM_015012	Integral to membrane	11p15.4	High
38992_at	DEK	0.021	2.17	NM_003472	Regulation of transcription from RNA polymerase II promoter	6p23	High
32223_at	SFRS14	0.021	2.04	NM_001017392	Nuclear mRNA splicing	19p12	High
41716_at	DMXL2	0.021	2.42	NM_015263	Translational initiation	15q21.2	High

39147_g_at	ATRX	0.021	2.28	NM_000489	Regulation of transcription, DNA-dependent	Xq13.1-q21.1	High
40818_at	RBPSUH	0.022	2.13	NM_005349	Regulation of transcription, DNA-dependent	4p15.2	High
40801_at	GAPVD1	0.023	2.26	NM_015635	Unknown	9q33.3	High
603_at	NR2C1	0.024	2.29	NM001032287	Regulation of transcription, DNA-dependent	12q22	High
36787_at	GATA1	0.025	2.18	NM002049	Regulation of transcription from RNA polymerase II promoter	Xp11.23	High
35802_at	FNBP4	0.026	2.2	NM015308	Cell adhesion	11p11.2	High
32635_at	TRIM33	0.028	2.58	NM_015906	Regulation of transcription, DNA-dependent	1p13.1	High
36935_at	RASA1	0.03	2.03	NM_002890	Intracellular cascade signalling	5q13.3	High
36998_s_at	ATXN2	0.03	2.08	NM_002973	Protein binding	12q24.1	High
37333_at	DNMT1	0.03	2.42	NM_001379	DNA methylation	19p13.2	High
38764_at	DICER1	0.03	2.23	NM_030621	RNA processing	14q32.13	High
1675_at	RASA1	0.031	2.08	NM_002890	Intracellular cascade signalling	5q13.3	High
32130_at	Unknown	0.033	2.02	NM_017432	Unknown	unknown	High
1055_g_at	RFC4	0.035	2.26	NM_002916	DNA replication	3q27	High
36814_at	KIAA1109	0.038	2.19	XM_371706	Unknown	4q27	High
1809_at	CDC7	0.04	3.59	NM_003503	DNA replication/initiation	1p22	High
33291_at	RASGRP1	0.041	2.4	NM_005739	Intracellular signaling cascade	15q15	High
37901_at	PIK3R4	0.041	2.35	NM_014602	Protein amino acid phosphorylation	3q21.3	High
33810_at	TRRAP	0.042	2.14	NM_003496	Regulation of transcription, DNA-dependent	7q21.2-q22.1	High
35995_at	ZWINT	0.043	2.33	NM_001005413	Spindle organization	10q21-q22	High
41436_at	ZNF198	0.043	2.39	NM_003453	Regulation of transcription, DNA-dependent	13q11-q12	High
31853_at	EED	0.046	2.66	NM_003797	Negative regulation of transcription	11q14.2-q22.3	High
38908_s_at	REV3L	0.047	2.13	NM_002912	DNA replication	6q21	High
35320_at	SLC11A2	0.049	2.58	NM_000617	Ttransport	12q13	High
38854_at	CEP4	0.049	2.11	NM_025009	Unknown	4q12	High
35810_at	ARPC3	0	2.18	NM_005719	Cell motility	12q24.11	Low
35985_at	PALM2-AKAP2	0	2.92	NM_001004065	Regulation of cell shape	9q31-q33	Low
36846_s_at	LSM7	<10 <sup>-4</sup>	2.62	NM_016199	mRNA processing	19p13.3	Low
286_at	HIST2H2AA	<10 <sup>-4</sup>	5.22	NM_001040874	Chromosome organization	1q21.2	Low
39180_at	FUS	<10 <sup>-4</sup>	2	NM_001010850	Immune repsonse	16p11.2	Low
32583_at	JUN	<10 <sup>-4</sup>	2.88	NM_002228	Regulation of transcription, DNA-dependent	1p32-p31	Low
36629_at	TSC22D3	<10 <sup>-4</sup>	2.73	NM_0001015881	Regulation of transcription, DNA-dependent	Xq22.3	Low
38313_at	ABCA2	<10 <sup>-4</sup>	2.41	NM_001606	Lipid metabolism	9q34	Low
32609_at	HIST2H2AA	<10 <sup>-4</sup>	3.14	NM_001040074	Chromosome organization	1q21.2	Low
32749_s_at	FLNA	0.00011	2.46	NM_001456	Cell motility	Xq28	Low
32134_at	TES	0.00014	2.64	NM_015641	Zinc ion binding	7q31.2	Low
1984_s_at	ARHGDIB	0.00016	2.28	NM_001175	Actin cytoskeleton organization and biogenesis	12p12.3	Low
41399_at	PHF8	0.00028	2.21	NM_015107	Regulation of transcription, DNA-dependent	Xp11.22	Low
39081_at	MT2A	0.00030	2.29	NM_005953	Copper ion homeostasis	16q13	Low
38555_at	DUSP10	0.00033	2.47	NM_007207	Protein amino acid dephosphorylation	1q41	Low

33146_at	MCL1	0.00033	2.07	NM_021960	Regulation of apoptosis	1q21	Low
38994_at	SOCS2	0.00037	3.61	NM_003877	Regulation of cell growth	12q	Low
36234_at	EIF4A1	0.00042	2.01	NM_001416	Protein biosynthesis	17p13	Low
32855_at	LDLR	0.00045	2.2	NM_000527	Lipid metabolism	19p13.3	Low
32542_at	FHL1	0.00046	2.2	NM_001449	Cell differentiation	Xq26	Low
32793_at	TRBC1	0.00047	5.19		Immune response	7q34	Low
33386_at	H1FO	0.00054	3.7	NM_005318	Chromosome organization	22q13.1	Low
33412_at	LGALS1	0.00054	3.15	NM_002305	Apoptosis	22q13.1	Low
33700_at	SPRY2	0.00057	2.99	NM_005842	Cell-cell signalling	13q31.1	Low
37026_at	KLF6	0.00059	2.89	NM_001008490	Regulation of transcription, DNA-dependent	10p15	Low
39411_at	TIPARP	0.00063	2.08	NM_015508	Protein amino acid phosphorylation	3q25.31	Low
34308_at	HIST1H2AC	0.00067	2.96	NM_003512	Chromosome organization	6p21.3	Low
31481_s_at	TMSB10	0.00074	2.4	NM_021103	Cytoskeleton organization and biogenesis	2p11.2	Low
41504_s_at	MAF	0.00085	7.4	NM_001031804	Regulation of transcription, DNA-dependent	16q22-q23	Low
676_g_at	IFITM1	0.0010	2.78	NM_003641	Immune response	11p15.15	Low
38750_at	NOTCH3	0.0010	2.93	NM_000435	Regulation of transcription, DNA-dependent	19p13.2-p13.1	Low
34168_at	DNNT	0.0013	3.81	NM_001017520	DNA replication	10q23-q24	Low
40698_at	CLEC2B	0.0016	3.26	NM_005127	Sugar binding	12p13.12	Low
37027_at	AHNAK	0.0020	2.4	NM_001620	Signal transduction	11q12.2	Low
38968_at	SH3BP5	0.0022	2.21	NM_001018009	Signal transduction	3p24.3	Low
2049_s_at	JUNB	0.0026	2.41	NM_002229	Regulation of transcription, DNA-dependent	19p13.2	Low
37403_at	ANXA1	0.003	2.33	NM_000700	Cell motility	9q12-q21	Low
41356_at	BCL11A	0.004	3.1	NM_018014	Regulation of transcription, DNA-dependent	2p16.1	Low
37524_at	STK17B	0.0053	2.61	NM_004226	Protein amino acid phosphorylation	2q32.3	Low
35277_at	SPON1	0.01	2.9	NM_006108	Cell adhesion	11p15.2	Low
742_at	HABP2	0.012	2.22	NM_004132	Cell adhesion	10q25.3	Low
38894_g_at	NCF4	0.013	2.07	NM_000631	Intracellular signalling cascade	22q13.1	Low
36618_g_at	ID1	0.013	2.31	NM_002165	Regulation of transcription from RNA polymerase II promoter	20q11	Low
37018_at	HIST1H1C	0.016	2.24	NM_005319	Chromosome organization	6p21.3	Low
37544_at	NFIL3	0.02	2.01	NM_005384	Regulation of transcription, DNA-dependent	9q22	Low
40951_at	LOC348162	0.025	2.11	XM_496125	Kinase activity	16p11.2	Low
36617_at	ID1	0.028	3.87	NM_002165	Regulation of transcription from RNA polymerase II promoter	20q11	Low
182_at	ITPR3	0.04	3.55	NM_002224	Calcium ion transport	6p21	Low