

**Table 17. The top-100 differentially expressed genes in *ETV6/RUNX1* vs. B lineage ALL**

Accession no.	Gene name	Gene symbol	Entrez gene	Reporter ID	Score*	P	Sign <sup>†</sup>
R78776	Protein tyrosine phosphatase, receptor type, K	<i>PTPRK</i>	5796	146123	1.580781	0.0002	+
H59805	IGF-II mRNA-binding protein 1	<i>IMP-1</i>	10642	208078	1.547667	0.0002	+
AA496796	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	897656	1.249147	0.0002	+
R67704	Neuritin 1	<i>NRN1</i>	51299	140197	1.175817	0.0002	+
AA460143	Glucosamine-6-phosphate deaminase 1	<i>GNPDA1</i>	10007	795882	1.166299	0.0002	+
BX094146	Small EDRK-rich factor 2	<i>SERF2</i>	10169	795427	1.148062	0.0002	+
AA704802	Neuroigin 2	<i>NLGN2</i>	57555	452466	1.132773	0.0002	+
BX109808	Calneuron 1	<i>CALN1</i>	83698	27916	1.107754	0.0002	+
R05810	Transcribed locus, moderately similar to NP_055301.1 neuronal thread protein AD7c-NTP [Homo sapiens]	<i>0</i>	0	125311	1.084982	0.0002	+
H23443	TAFAl protein	<i>TAFAl</i>	407738	51993	1.067121	0.0002	+
N51740	Ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	<i>ENPP4</i>	22875	281737	1.059574	0.0002	+
R02269	D4, zinc and double PHD fingers, family 3	<i>DPF3</i>	8110	124530	1.01205	0.0002	+
W52208	Coactosin-like 1 (Dictyostelium)	<i>COTL1</i>	23406	325370	1.01102	0.0002	+
BX100679	FYN binding protein (FYB 120/130)	<i>FYB</i>	2533	293325	1.004786	0.0002	+
N49774	KIAA1671 protein	<i>KIAA1671</i>	85379	282404	0.976661	0.0002	+
H98981	Myeloid-associated differentiation marker	<i>MYADM</i>	91663	261444	0.975919	0.0002	+
AA490494	Tumor necrosis factor receptor superfamily, member 21	<i>TNFRSF21</i>	27242	823902	0.969868	0.0002	+
AA621510	Zinc finger protein 219	<i>ZNF219</i>	51222	1055297	0.956131	0.0002	+
AA292215	Zinc finger and BTB domain containing 34	<i>ZBTB34</i>	403341	725745	0.952181	0.0002	+
AA487510	Mindbomb homolog 1 (Drosophila)	<i>MIB1</i>	57534	839060	0.947612	0.0002	+
AI362933	Death-associated protein kinase 2	<i>DAPK2</i>	23604	2018423	0.94269	0.0002	+
AA999901	Guanine nucleotide binding protein (G protein), gamma 11	<i>GNG11</i>	2791	1636447	0.927219	0.0002	+
T66109	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3	<i>CBFA2T3</i>	863	21684	0.910589	0.0002	+
H17035	Zinc finger, DHHC domain containing 3	<i>ZDHHC3</i>	51304	50581	0.906465	0.0002	+
BX096730	Transgelin 3	<i>TAGLN3</i>	29114	325160	0.901741	0.0002	+
N24824	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	<i>KIT</i>	3815	269806	0.884713	0.0002	+
H18864	Notch homolog 1, translocation-associated (Drosophila)	<i>NOTCH1</i>	4851	51275	0.884649	0.0002	+
AI349935	Myosin X	<i>MYO10</i>	4651	2052032	0.884431	0.0002	+
AA775239	Transmembrane 4 superfamily member tetraspan NET 5	<i>NET 5</i>	10867	878572	0.879527	0.0002	+
AA680132	Sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)	<i>SMPD2</i>	6610	433170	0.879171	0.0002	-
BX090399	Chromobox homolog 5 (HP1 alpha homolog, Drosophila)	<i>CBX5</i>	23468	452483	0.85016	0.0002	+
H17037	Similar to CG4502-PA	<i>0</i>	134111	50582	0.843724	0.0002	+
AA872348	Ras homolog gene family, member F (in filopodia)	<i>RHOF</i>	54509	1472664	0.839777	0.0002	+
AA287218	Glycoprotein M6B	<i>GPM6B</i>	2824	713660	0.839248	0.0002	-
AA608572	Pyrophosphatase (inorganic)	<i>PP</i>	5464	950700	0.836194	0.0002	-
AA705374	Organic solute transporter alpha	<i>OSTalpha</i>	200931	462116	0.835377	0.0002	+
AA043117	Chromosome 9 open reading frame 9	<i>C9orf9</i>	11092	486717	0.835163	0.0002	-
AA700604	Similar to Sorbitol dehydrogenase (L-iditol 2-dehydrogenase)	<i>0</i>	116166	433350	0.830564	0.0002	-
H08899	Isopentenyl-diphosphate delta isomerase	<i>IDII</i>	3422	44975	0.829119	0.0002	+
T53169	KIAA2002 protein	<i>KIAA2002</i>	79834	68534	0.826286	0.0002	+
AI936324	Tyrosine kinase, non-receptor, 1	<i>TNK1</i>	8711	2460159	0.823377	0.0002	+
AI985214	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	<i>TFPI</i>	7035	2495781	0.819525	0.0002	+
CR748825	Tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain	<i>TNFRSF10C</i>	8794	2108257	0.816372	0.0002	+
AI628353	KIAA0882 protein	<i>KIAA0882</i>	23158	2284924	0.812537	0.0002	+
AA703075	Pyruvate dehydrogenase kinase, isoenzyme 1	<i>PDK1</i>	5163	436761	0.811307	0.0002	+
AA486239	Filamin B, beta (actin binding protein 278)	<i>FLNB</i>	2317	840818	0.810435	0.0002	-

AA454079	Sestrin 2	<i>SESN2</i>	83667	788232	0.810263	0.0002	+
AA456101	Phosphoinositide-3-kinase, class 3	<i>PIK3C3</i>	5289	813536	0.808075	0.0002	+
AA968896	Midkine (neurite growth-promoting factor 2)	<i>MDK</i>	4192	1574594	0.801315	0.0002	+
AI871665	Acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	<i>ACAT1</i>	38	2292807	0.798253	0.0002	-
AA024866	Hypothetical protein FLJ32731	<i>FLJ32731</i>	138050	365177	0.796694	0.0002	+
AA626264	FCH and double SH3 domains 2	<i>FCHSD2</i>	9873	745559	0.793226	0.0002	+
R02010	Chromosome 10 open reading frame 26	<i>C10orf26</i>	54838	124242	0.792052	0.0002	+
AA917731	RAB3A interacting protein (rabin3)	<i>RAB3IP</i>	117177	1527297	0.788901	0.0002	+
AA487359	Dishevelled associated activator of morphogenesis 1	<i>DAAMI</i>	23002	841475	0.782561	0.0002	-
AA133167	KIAA1644 protein	<i>KIAA1644</i>	85352	490755	0.77832	0.0002	+
AA045057	Syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)	<i>SDC2</i>	6383	488873	0.778315	0.0002	+
AA708152	Transmembrane emp24 protein transport domain containing 6	<i>MGC23911</i>	146456	460798	0.775422	0.0002	+
N49669	Hypothetical protein FLJ40629	<i>FLJ40629</i>	150468	243887	0.772276	0.0002	-
BX100923	Cadherin 4, type 1, R-cadherin (retinal)	<i>CDH4</i>	1002	32777	0.771108	0.0002	+
N23340	Hypothetical protein LOC152485	<i>LOC152485</i>	152485	267186	0.769093	0.0002	+
BX114269	Chromodomain helicase DNA binding protein 2	<i>CHD2</i>	1106	137211	0.767528	0.0002	+
AW074953	Chromosome 21 open reading frame 2	<i>C21orf2</i>	755	2572207	0.759987	0.0002	-
T81140	Coatmer protein complex, subunit alpha	<i>COPA</i>	1314	109153	0.758981	0.0002	-
AI308916	Protease, serine, 3 (mesotrypsin)	<i>PRSS3</i>	5646	1913366	0.758964	0.0002	+
AA394198	Protease, serine, 2 (trypsin 2)	<i>PRSS2</i>	5645	725709	0.757919	0.0002	+
AA125911	PDZ and LIM domain 7 (enigma)	<i>PDLIM7</i>	9260	502682	0.757087	0.0002	+
W32777	Transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	<i>TLE3</i>	7090	321574	0.756531	0.0002	+
AA025276	Catenin (cadherin-associated protein), delta 1	<i>CTNND1</i>	1500	364921	0.753847	0.0002	-
T97800	Hypothetical protein LOC284940	<i>SHANK3</i>	85358	121540	0.753758	0.0002	+
AI356028	G protein-coupled receptor, family C, group 5, member B	<i>GPRC5B</i>	51704	2016775	0.751625	0.0002	+
AA255695	Solute carrier family 12 (sodium/potassium/chloride transporters), member 2	<i>SLC12A2</i>	6558	685801	0.750119	0.0002	+
AW084720	Complement component 1, s subcomponent	<i>C1S</i>	716	2569884	0.748095	0.0002	+
AA453774	Regulator of G-protein signalling 16	<i>RGS16</i>	6004	813707	0.745766	0.0002	-
BX103609	Multiple cluster hits:77091 & 196169	<i>DNASE1L1 &amp; LOC285944</i>	1774 & 285944	2108031	0.74419	0.0002	+
AA504232	High-mobility group 20A	<i>HMG20A</i>	10363	825036	0.743126	0.0002	+
H09449	Spondin 1, extracellular matrix protein	<i>SPON1</i>	10418	46173	0.74308	0.0002	+
BX100743	Multiple cluster hits:198161 & 549160	<i>PLA2G4B &amp; SPTBN5</i>	8681 & 51332	343699	0.742341	0.0002	-
AA705153	Hypothetical protein FLJ10357	<i>FLJ10357</i>	55701	461613	0.740163	0.0002	+
AA935533	E2F transcription factor 6	<i>E2F6</i>	1876	1557277	0.738094	0.0002	+
AA410288	Rho guanine nucleotide exchange factor (GEF) 12	<i>ARHGEF12</i>	23365	754450	0.73536	0.0002	+
AA412053	CD9 antigen (p24)	<i>CD9</i>	928	727251	0.735204	0.0002	-
T95423	Multiple cluster hits:507452 & 515130	<i>XPO4 &amp; VANGL1</i>	64328 & 81839	120749	0.735202	0.0002	-
N62366	Hypothetical protein LOC339344	<i>LOC339344</i>	339344	290536	0.735143	0.0002	-
AI668897	Protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	<i>PTPN18</i>	26469	2313483	0.73478	0.0002	+
AA670419	Chromosome 22 open reading frame 9	<i>C22orf9</i>	23313	878809	0.733898	0.0002	-
R08679	Abhydrolase domain containing 6	<i>ABHD6</i>	57406	127447	0.733888	0.0002	+
R12473	Adenosine kinase	<i>ADK</i>	132	128243	0.7309	0.0002	-
AA453028	Paired immunoglobulin-like type 2 receptor beta	<i>PILRB</i>	29990	788355	0.729354	0.0002	+
AI808234	Zinc finger protein 177	<i>ZNF177</i>	7730	2363207	0.728796	0.0002	-
BX111856	Phytanoyl-CoA hydroxylase (Refsum disease)	<i>PHYH</i>	5264	293104	0.724776	0.0002	+
AA863116	Hypothetical LOC403340	<i>MGC70870</i>	403340	1455602	0.723544	0.0002	-
AI492471	Abhydrolase domain containing 3	<i>ABHD3</i>	171586	2131779	0.721328	0.0002	+
BX113672	Similar to BMP2 inducible kinase	<i>0</i>	388957	243524	0.721095	0.0002	-
AI652765	Zinc finger, FYVE domain containing 9	<i>ZFYVE9</i>	9372	2310274	0.719562	0.0002	-

AW057930	Unc-13 homolog B (C. elegans)	<i>UNC13B</i>	10497	2541460	0.716477	0.0002	+
AA443899	Scavenger receptor class B, member 1	<i>SCARB1</i>	949	756687	0.71539	0.0002	+
AA035450	Inositol 1,4,5-triphosphate receptor, type 1	<i>ITPR1</i>	3708	471725	0.715186	0.0002	+
N66008	Tumor suppressor candidate 3	<i>TUSC3</i>	7991	293859	0.713174	0.0002	+
N25897	BCL2-associated athanogene 4	<i>BAG4</i>	9530	258454	0.708888	0.0002	+

\*Value from discriminatory analysis, with a high value indicating a high correlation with the classes.

†The plus (+) sign indicates relative up-regulation in *ETV6/RUNX1*-positive ALLs, the minus (-) sign indicates up-regulation in the remaining B lineage ALLs.