Table 26. Gene order according to the hierarchical clustering of the top-200 genes of *ETV6/RUNX1* and the normal bone marrows and purified hematopoietic cells

Accession	Gene name	Gene symbol	Entrez gene	Reporter ID	Signature
AI628353	KIAA0882 protein	*KIAA0882*	23158	2284924	
AA708152	Transmembrane emp24 protein transport domain containing 6	*MGC23911*	146456	460798	Leukemic
BX090758	Telomeric repeat binding factor 2	*TERF2*	7014	205335	Leukemic
R67704	Neuritin 1	*NRN1*	51299	140197	Leukemic
AA704833	Angiopoietin-like 2	*ANGPTL2*	23452	453195	Leukemic
R78776	Protein tyrosine phosphatase, receptor type, K	*PTPRK*	5796	146123	Leukemic
R06438	Myosin, light polypeptide kinase	*MYLK*	4638	126341	
AA968896	Midkine (neurite growth-promoting factor 2)	*MDK*	4192	1574594	Leukemic
R83610	SMAD, mothers against DPP homolog 1 (Drosophila)	*SMAD1*	4086	187614	Leukemic
AA490494	Tumor necrosis factor receptor superfamily, member 21	*TNFRSF21*	27242	823902	Leukemic
BX111856	Phytanoyl-CoA hydroxylase (Refsum disease)	*PHYH*	5264	293104	Leukemic
AA045057	Syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)	*SDC2*	6383	488873	Leukemic
AA999901	Guanine nucleotide binding protein (G protein), gamma 11	*GNG11*	2791	1636447	Leukemic
AA453028	Paired immunoglobin-like type 2 receptor beta	*PILRB*	29990	788355	Leukemic
AA496796	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	*FARP1*	10160	897656	Leukemic
H59805	IGF-II mRNA-binding protein 1	*IMP-1*	10642	208078	Leukemic
BX094146	Small EDRK-rich factor 2	*SERF2*	10169	795427	Leukemic
AI985214	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	*TFPI*	7035	2495781	
BX104789	Carboxypeptidase X (M14 family)	*CPXM*	56265	898044	
AA394198	Protease, serine, 2 (trypsin 2)	*PRSS2*	5645	725709	
AI308916	Protease, serine, 3 (mesotrypsin)	*PRSS3*	5646	1913366	
W87741	V-myc myelocytomatosis viral oncogene homolog (avian)	*MYC*	4609	417226	
H95959	Secreted protein, acidic, cysteine-rich (osteonectin)	*SPARC*	6678	250654	
N24824	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	*KIT*	3815	269806	
AA437212	Adaptor-related protein complex 1, sigma 2 subunit	*AP1S2*	8905	757428	
AA490503	LDL receptor adaptor protein	*ARH*	26119	823909	
AA102454	Calpain 2, (m/II) large subunit	*CAPN2*	824	549728	
N67007	Multiple cluster hits:268326 & 371021	*OCIL & LAPTM5*	29121 & 7805	295868	
AI302421	Lectin-like NK cell receptor	*OCIL*	29121	1901749	
BX116983	CD1C antigen, c polypeptide	*CD1C*	911	428103	
AA452725	Nucleobindin 1	*NUCB1*	4924	788472	
AI245605	D-aspartate oxidase	*DDO*	8528	1870049	
AA608572	Pyrophosphatase (inorganic)	*PP*	5464	950700	
AA151486	Phosphoribosyl pyrophosphate synthetase 2	*PRPS2*	5634	503097	
BX107680	ATP-binding cassette, suB family A (ABC1), member 9	*ABCA9*	10350	299918	
AA700604	Similar to Sorbitol dehydrogenase (L-iditol 2-dehydrogenase)	*0*	116166	433350	
T95423	Multiple cluster hits:507452 & 515130	*XPO4 & VANGL1*	64328 & 81839	120749	
AA292283	PHD finger protein 2	*PHF2*	5253	725841	
R12473	Adenosine kinase	*ADK*	132	128243	
AA670419	Chromosome 22 open reading frame 9	*C22orf9*	23313	878809	
AI808234	Zinc finger protein 177	*ZNF177*	7730	2363207	
AA680132	Sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)	*SMPD2*	6610	433170	
AA664210	Protein kinase (cAMP-dependent, catalytic) inhibitor gamma	*PKIG*	11142	855557	
R00595	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	*GALNT2*	2590	123441	
AA677572	PET112-like (yeast)	*PET112L*	5188	455263	

AA429946	Dehydrogenase/reductase (SDR family) member 4	*DHRS4*	10901	781295
AA703387	Methylmalonic aciduria (cobalamin deficiency) type B	*MMAB*	326625	450050
AI000935	N-acetyltransferase-like protein	*FLJ10774*	55226	1613058
AA421850	Hypothetical protein MGC4308	*MGC4308*	84319	754588
AA496512	Non-metastatic cells 2, protein (NM23B) expressed in	*NME2*	4831	755750
AA422058	Multiple cluster hits:42957 & 463456	*METTL1 & NME2*	4234 & 4831	755239
AA045399	Hypothetical protein LOC162073	*LOC162073*	162073	487831
AI871665	Acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	*ACAT1*	38	2292807
AA489478	Mitochondrial ribosomal protein L33	*MRPL33*	9553	897448
AA459811	Brain protein 44-like	*BRP44L*	51660	795582
N62366	Hypothetical protein LOC339344	*LOC339344*	339344	290536
AA287218	Glycoprotein M6B	*GPM6B*	2824	713660
AA025276	Catenin (cadherin-associated protein), delta 1	*CTNND1*	1500	364921
AA043117	Chromosome 9 open reading frame 9	*C9orf9*	11092	486717
AA486239	Filamin B, beta (actin binding protein 278)	*FLNB*	2317	840818
T81140	Coatomer protein complex, subunit alpha	*COPA*	1314	109153
R78514	Splicing factor 3b, subunit 5, 10kDa	*SF3B5*	83443	144926
T98497	Phosphoglycerate dehydrogenase like 1	*PHGDHL1*	337867	122150
AA776718	Hypothetical protein BC009732	*LOC133308*	133308	1292847
R67222	Chromosome 6 open reading frame 192	*C6orf192*	116843	140852
AA487359	Dishevelled associated activator of morphogenesis 1	*DAAM1*	23002	841475
AA401853	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	*PSMD9*	5715	758662
BX090430	Signal peptide, CUB domain, EGF-like 2	*SCUBE2*	57758	346321
AA453774	Regulator of G protein signalling 16	*RGS16*	6004	813707
AA918646	KIAA0830 protein	*KIAA0830*	23052	1534700
AA663941	LOC387882 hypothetical protein	*LOC387882*	387882	855707
BX100743	Multiple cluster hits:198161 & 549160	*PLA2G4B & SPTBN5*	8681 & 51332	343699
AW074953	Chromosome 21 open reading frame 2	*C21orf2*	755	2572207
N49669	Hypothetical protein FLJ40629	*FLJ40629*	150468	243887
BX113672	Similar to BMP2 inducible kinase	*0*	388957	243524
R65792	Enoyl Coenzyme A hydratase domain containing 1	*ECHDC1*	55862	140100
AA863116	Hypothetical LOC403340	*MGC70870*	403340	1455602
AA417761	Protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	*PTPLB*	201562	746245
AA489080	Likely ortholog of mouse nin one binding protein	*NOB1P*	28987	824799
AI652765	Zinc finger, FYVE domain containing 9	*ZFYVE9*	9372	2310274
AA428893	Protein tyrosine phosphatase, non-receptor type 2	*PTPN2*	5771	773567
AA496886	Multiple cluster hits:369232 & 477425	*EPB41L5 & SLC12A8*	57669 & 84561	897593
N92712	Chromosome 11 open reading frame 24	*C11orf24*	53838	306446
AA970972	SMAD, mothers against DPP homolog 3 (Drosophila)	*SMAD3*	4088	1575263
AA872348	Ras homolog gene family, member F (in filopodia)	*RHOF*	54509	1472664
AA758257	Activating signal cointegrator 1 complex subunit 1	*ASCC1*	51008	396857
AA489301	Cartilage associated protein	*CRTAP*	10491	842842
AI362062	Neuro-oncological ventral antigen 1	*NOVA1*	4857	2015354
AA447746	DNA-damage-inducible transcript 4	*DDIT4*	54541	813645
CR736732	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	*PFKFB2*	5208	325526
AI362933	Death-associated protein kinase 2	*DAPK2*	23604	2018423
BX100679	FYN binding protein (FYB 120/130)	*FYB*	2533	293325
AA131530	A kinase (PRKA) anchor protein 14	*AKAP14*	158798	503725
R33401	SAM domain, SH3 domain and nuclear localisation signals, 1	*SAMSN1*	64092	136169
CR748825	Tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain	*TNFRSF10C*	8794	2108257

BX103609	Multiple cluster hits:77091 & 196169	*DNASE1L1 & LOC285944*	1774 & 285944	2108031	
AA412053	CD9 antigen (p24)	*CD9*	928	727251	
AA410288	Rho guanine nucleotide exchange factor (GEF) 12	*ARHGEF12*	23365	754450	
W32777	Transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	*TLE3*	7090	321574	
AW006385	Potassium voltage-gated channel, KQT like subfamily, member 1	*KCNQ1OT1*	10984	2506534	
N51740	Ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	*ENPP4*	22875	281737	
T63461	RNA binding motif, single stranded interacting protein 1	*RBMS1*	5937	80030	
N25897	BCL2-associated athanogene 4	*BAG4*	9530	258454	
AI668897	Protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	*PTPN18*	26469	2313483	
AA983765	Coronin, actin binding protein, 2A	*CORO2A*	7464	1580874	
AA782314	Hypothetical protein MGC35440	*LOC147991*	147991	857574	
W24429	PeanuT like 1 (Drosophila)	*PNUTL1*	5413	308041	
AI732703	Fc fragment of IgG, receptor, transporter, alpha	*FCGRT*	2217	770394	
W69953	Allograft inflammatory factor 1	*AIF1*	199	343867	
AA024866	Hypothetical protein FLJ32731	*FLJ32731*	138050	365177	
AA938623	1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)	*AGPAT2*	10555	1574058	
H98981	Myeloid-associated differentiation marker	*MYADM*	91663	261444	Mature/CD15
H18864	Notch homolog 1, translocation-associated (Drosophila)	*NOTCH1*	4851	51275	Mature/CD15
AA490863	NIMA (never in mitosis gene a)-related kinase 6	*NEK6*	10783	824150	Mature/CD15
AI492471	Abhydrolase domain containing 3	*ABHD3*	171586	2131779	Mature/CD15
AA149197	WD repeat and FYVE domain containing 3	*WDFY3*	23001	504575	Mature/CD15
AA292215	Zinc finger and BTB domain containing 34	*ZBTB34*	403341	725745	Mature/CD15
T53169	KIAA2002 protein	*KIAA2002*	79834	68534	Mature/CD15
AA479102	Protein kinase C, beta 1	*PRKCB1*	5579	753923	Mature/CD15
AA703075	Pyruvate dehydrogenase kinase, isoenzyme 1	*PDK1*	5163	436761	Mature/CD15
BX114269	Chromodomain helicase DNA binding protein 2	*CHD2*	1106	137211	Mature/CD15
BX093966	Mitogen-activated protein kinase kinase kinase 10	*MAP3K10*	4294	122178	Mature/CD15
AA256132	Interleukin 1 receptor accessory protein	*IL1RAP*	3556	681917	Mature/CD15
H23443	TAFA1 protein	*TAFA1*	407738	51993	Mature/CD15
H09449	Spondin 1, extracellular matrix protein	*SPON1*	10418	46173	Mature/CD15
H17037	Similar to CG4502-PA	*0*	134111	50582	Mature/CD15
BX090399	Chromobox homolog 5 (HP1 alpha homolog, Drosophila)	*CBX5*	23468	452483	Mature/CD15
AI206454	Acyl-CoA synthetase long-chain family member 3	*ACSL3*	2181	1758590	Mature/CD15
BX102083	Multiple cluster hits:475970 & 548668	*OXSR1 & 0*	9943 & 0	198690	Mature/CD15
AA148734	Ankyrin repeat domain 29	*ANKRD29*	147463	504761	Mature/CD15
AA125911	PDZ and LIM domain 7 (enigma)	*PDLIM7*	9260	502682	Mature/CD15
H08292	Sidekick homolog 1 (chicken)	*SDK1*	221935	45391	Leukemic
AA053474	Hypothetical protein FLJ14166	*FLJ14166*	79616	509988	Leukemic
W30988	Multiple cluster hits:9613 & 549764	*ANGPTL4 & 0*	51129 & 0	310356	Leukemic
H17035	Zinc finger, DHHC domain containing 3	*ZDHHC3*	51304	50581	Leukemic
R25089	DnaJ (Hsp40) homolog, subfamily A, member 1	*DNAJA1*	3301	35318	Leukemic
N47522	FBI4 protein	*FBI4*	404201	280843	Leukemic
AA487510	Mindbomb homolog 1 (Drosophila)	*MIB1*	57534	839060	Leukemic
AA454079	Sestrin 2	*SESN2*	83667	788232	Leukemic
R92544	Multiple cluster hits:59093 & 536592	*CACNB2 & 0*	783 & 0	196348	Leukemic
AI349935	Myosin X	*MYO10*	4651	2052032	Leukemic
AI356028	G protein-coupled receptor, family C, group 5, member B	*GPRC5B*	51704	2016775	Leukemic
AA460143	Glucosamine-6-phosphate deaminase 1	*GNPDA1*	10007	795882	
T51359	G protein-coupled receptor kinase 5	*GRK5*	2869	70120	
AA454756	Hypothetical protein LOC112868	*LOC112868*	112868	809789	

AI971009	PlateleT activating factor acetylhydrolase 2, 40kDa	*PAFAH2*	5051	2488470	
AA701938	Epsin 2	*EPN2*	22905	435920	
AA917731	RAB3A interacting protein (rabin3)	*RAB3IP*	117177	1527297	
W31540	KIAA1450 protein	*KIAA1450*	57600	320564	
AA432323	WAS protein family, member 2	*WASF2*	10163	781459	
H21039	Chromosome 14 open reading frame 132	*C14orf132*	56967	51344	
W24873	Fucosidase, alpha-L- 1, tissue	*FUCA1*	2517	308437	
R02269	D4, zinc and double PHD fingers, family 3	*DPF3*	8110	124530	
H10008	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)	*HTR7*	3363	46611	Leukemic
AA133167	KIAA1644 protein	*KIAA1644*	85352	490755	Leukemic
AA456101	Phosphoinositide-3-kinase, class 3	*PIK3C3*	5289	813536	Leukemic
AA015977	Hydroxysteroid dehydrogenase like 1	*LOC83693*	83693	360547	Leukemic
R05810	Transcribed locus, moderately similar to NP_055301.1 neuronal thread protein AD7c-NTP [Homo sapiens]	*0*	0	125311	Leukemic
R02010	Chromosome 10 open reading frame 26	*C10orf26*	54838	124242	Leukemic
N20407	Coagulation factor II (thrombin) receptor	*F2R*	2149	264692	Leukemic
R08679	Abhydrolase domain containing 6	*ABHD6*	57406	127447	Leukemic
AA418251	Multiple cluster hits:14968 & 372541	*PLAG1 & KBTBD2*	5324 & 25948	767638	Leukemic
AI936324	Tyrosine kinase, non-receptor, 1	*TNK1*	8711	2460159	Leukemic
AI950935	Tumor protein p53 binding protein, 1	*TP53BP1*	7158	2548134	Leukemic
N23340	Hypothetical protein LOC152485	*LOC152485*	152485	267186	Leukemic
AA431716	Rho GTPase activating protein 17	*ARHGAP17*	55114	782246	Leukemic
AA626264	FCH and double SH3 domains 2	*FCHSD2*	9873	745559	Leukemic
AA935533	E2F transcription factor 6	*E2F6*	1876	1557277	Leukemic
AA600190	Nucleoporin 205kDa	*NUP205*	23165	950369	Leukemic
AI246570	Chromosome 21 open reading frame 18	*C21orf18*	54093	1903067	Leukemic
N66008	Tumor suppressor candidate 3	*TUSC3*	7991	293859	Leukemic
AA255695	Solute carrier family 12 (sodium/potassium/chloride transporters), member 2	*SLC12A2*	6558	685801	Leukemic
AI351769	Netrin G1	*NTNG1*	22854	1947054	Leukemic
AA705374	Organic solute transporter alpha	*OSTalpha*	200931	462116	Leukemic
AA775239	Transmembrane 4 superfamily member tetraspan NET 5	*NET 5*	10867	878572	Leukemic
W52208	Coactosin-like 1 (Dictyostelium)	*COTL1*	23406	325370	Leukemic
BX096730	Transgelin 3	*TAGLN3*	29114	325160	Leukemic
AA701976	Inositol 1,4,5-triphosphate receptor, type 3	*ITPR3*	3710	435953	Leukemic
AA496930	Reversion-inducing-cysteine-rich protein with kazal motifs	*RECK*	8434	897518	Leukemic
AA504232	High-mobility group 20A	*HMG20A*	10363	825036	Leukemic
AI015577	Homolog of yeast INO80	*INO80*	54617	1636837	Leukemic
AA035450	Inositol 1,4,5-triphosphate receptor, type 1	*ITPR1*	3708	471725	Leukemic
N49774	KIAA1671 protein	*KIAA1671*	85379	282404	Leukemic
N59295	Chromosome 12 open reading frame 2	*C12orf2*	11228	289794	Leukemic
AW084720	Complement component 1, s subcomponent	*C1S*	716	2569884	Leukemic
AA496253	Activating transcription factor 5	*ATF5*	22809	814158	Leukemic
H08899	Isopentenyl-diphosphate delta isomerase	*IDI1*	3422	44975	Leukemic
N30348	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	*FLT1*	2321	258101	Leukemic
BX100923	Cadherin 4, type 1, R-cadherin (retinal)	*CDH4*	1002	32777	Leukemic
BX109808	Calneuron 1	*CALN1*	83698	27916	Leukemic
T97800	Hypothetical protein LOC284940	*SHANK3*	85358	121540	Leukemic
AA704802	Neuroligin 2	*NLGN2*	57555	452466	Leukemic
AW057930	Unc-13 homolog B (C. elegans)	*UNC13B*	10497	2541460	Leukemic
AA775600	Phosphatidylinositol-specific phospholipase C, X domain containing 1	*PLCXD1*	55344	378433	Cd34/immature
AA621510	Zinc finger protein 219	*ZNF219*	51222	1055297	Cd34/immature

AA705153	Hypothetical protein FLJ10357	*FLJ10357*	55701	461613	Cd34/immature
T66109	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3	*CBFA2T3*	863	21684	Cd34/immature
AA001106	Insulin receptor	*INSR*	3643	427812	Cd34/immature
BX090473	Major histocompatibility complex, class II, DM alpha	*HLA-DMA*	3108	183337	Cd34/immature
AA443899	Scavenger receptor class B, member 1	*SCARB1*	949	756687	Cd34/immature