

**Table 14. The top-100 differentially expressed genes in AML vs. the NBM and purified hematopoietic cells**

Accession no.	Gene Name	Gene symbol	Entrez gene	Reporter ID	Score*	P	Sign <sup>†</sup>
BX116210	Apolipoprotein C-II	<i>APOC2</i>	344	809523	1.169498	0.0002	+
AA630100	Hypothetical protein MGC17299	<i>MGC17299</i>	128218	854691	1.117027	0.0002	-
AA456821	Neuropilin (NRP) and tolloid (TLL)-like 2	<i>NETO2</i>	81831	815556	1.110654	0.0002	+
CR738764	Hypothetical protein FLJ14825	<i>FLJ14825</i>	84933	243088	1.109626	0.0002	+
BX103681	Kynureninase (L-kynurenine hydrolase)	<i>KYNU</i>	8942	435890	1.098809	0.0002	+
AA159578	Leucine-rich repeats and immunoglobulin-like domains 1	<i>LRIG1</i>	26018	592594	1.081188	0.0002	-
AI381323	Creatine kinase, muscle	<i>CKM</i>	1158	2067890	1.04935	0.0002	+
AA663309	Paired related homeobox 1	<i>PRRX1</i>	5396	853367	1.04407	0.0002	-
AA112149	Hypothetical protein FLJ20674	<i>FLJ20674</i>	54621	530403	1.043435	0.0002	-
AA664069	Laminin, gamma 1 (formerly LAMB2)	<i>LAMC1</i>	3915	855805	1.025082	0.0002	-
AA916327	Protective protein for beta-galactosidase (galactosialidosis)	<i>PPGB</i>	5476	1473289	1.006725	0.0002	+
AA682861	Par-6 partitioning defective 6 homolog beta (C. elegans)	<i>PARD6B</i>	84612	450398	0.995667	0.0002	-
AA599173	MYST histone acetyltransferase (monocytic leukemia) 3	<i>MYST3</i>	7994	949928	0.990522	0.0002	-
AA864183	Rhesus blood group, C glycoprotein	<i>RHCG</i>	51458	1456468	0.972541	0.0002	+
T52652	Microtubule associated serine/threonine kinase-like	<i>MASTL</i>	84930	67187	0.960359	0.0002	-
AA773304	CDNA FLJ31660 fis, clone NT2RI2004410	<i>0</i>	0	845037	0.956927	0.0002	-
N50428	Hypothetical protein FLJ30046	<i>FLJ30046</i>	122060	280640	0.954817	0.0002	-
AI635989	Kynureninase (L-kynurenine hydrolase)	<i>KYNU</i>	8942	2298080	0.950892	0.0002	+
H99430	CDNA FLJ14942 fis, A-PLACE1011185	<i>0</i>	0	262268	0.944904	0.0002	-
AA701491	Hypothetical protein MGC3265	<i>MGC3265</i>	78991	435447	0.938666	0.0002	+
W52082	Mitochondrial ribosomal protein L33	<i>MRPL33</i>	9553	325520	0.935593	0.0002	+
AW028997	Chaperonin containing TCP1, subunit 8 (theta)	<i>CCT8</i>	10694	2542182	0.927684	0.0002	+
T41071	Full-length cDNA clone CSODJ001YJ05 of T cells (Jurkat cell line) Cot 10-normalized of Homo sapiens (human)	<i>0</i>	0	62093	0.923493	0.0002	-
AA157021	Chr2 synaptotagmin	<i>CHR2SYT</i>	57488	502586	0.915911	0.0002	+
R26405	CDNA FLJ14942 fis, A-PLACE1011185	<i>0</i>	0	132250	0.914888	0.0002	-
AA664237	Synaptopodin	<i>SYNPO</i>	11346	855610	0.91443	0.0002	-
N67262	Zinc finger protein 135 (clone pHZ-17)	<i>ZNF135</i>	7694	286378	0.913271	0.0002	-
AA147452	Pituitary tumor-transforming 1 interacting protein	<i>PTTG1IP</i>	754	505491	0.911735	0.0002	+
AA629926	Zinc finger protein 544	<i>ZNF544</i>	27300	884683	0.904568	0.0002	-
T69073	Chromosome 9 open reading frame 42	<i>C9orf42</i>	116224	82290	0.899572	0.0002	-
AA628243	Myosin phosphatase-Rho interacting protein	<i>M-RIP</i>	23164	1055769	0.896237	0.0002	-
N99711	Histone 1, H2bk	<i>HIST1H2BK</i>	85236	290841	0.894307	0.0002	+
AI365579	KIAA1458 protein	<i>KIAA1458</i>	57606	1953632	0.893988	0.0002	-
H89517	Amyloid beta (A4) precursor-like protein 2	<i>APLP2</i>	334	240249	0.89351	0.0002	+
AI023006	Coagulation factor II (thrombin) receptor-like 1	<i>F2RL1</i>	2150	1650942	0.891591	0.0002	-
H10488	Adenylate kinase 2	<i>AK2</i>	204	45464	0.89077	0.0002	+
AI366160	Dendrin	<i>DDN</i>	23109	1955794	0.88625	0.0002	-
AA156109	Nucleosome assembly protein 1-like 2	<i>NAP1L2</i>	4674	589853	0.881897	0.0002	-
H17385	Haloacid dehalogenase-like hydrolase domain containing 2	<i>HDHD2</i>	84064	50660	0.879821	0.0002	+
AA169560	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	<i>DHX57</i>	90957	594063	0.872627	0.0002	-
H41237	Neurexin 2	<i>NRXN2</i>	9379	192481	0.871564	0.0002	+
AA663075	Similar to uroplakin 3B isoform b; uroplakin IIIb	<i>0</i>	402579	852568	0.871152	0.0002	-
AA669536	Gap junction protein, alpha 5, 40kDa (connexin 40)	<i>GJA5</i>	2702	853985	0.8675	0.0002	-
T56056	SEC63-like (S. cerevisiae)	<i>SEC63</i>	11231	73310	0.866118	0.0002	-
T59421	MSin3A-associated protein 130	<i>SAP130</i>	79595	75884	0.864268	0.0002	-
AA670380	Candidate tumor suppressor in ovarian cancer 2	<i>DPH2L1</i>	1801	878468	0.859298	0.0002	+

T55547	Hypothetical protein FLJ32954	<i>FLJ32954</i>	151393	73526	0.858786	0.0002	-
AA669124	TEA domain family member 2	<i>TEAD2</i>	8463	854570	0.857253	0.0002	-
AA948039	Kruppel-like factor 11	<i>KLF11</i>	8462	1416029	0.851779	0.0002	+
AA683500	Attractin	<i>ATRN</i>	8455	505835	0.849647	0.0002	+
AA489861	Syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	<i>SNTB2</i>	6645	839516	0.846418	0.0002	-
AI207770	Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1	<i>SULT1A1</i>	6817	1953022	0.844942	0.0002	-
AI955681	Carboxylesterase 2 (intestine, liver)	<i>CES2</i>	8824	2509616	0.844617	0.0002	+
T40927	Multiple cluster hits:104672 & 368372	<i>DOC1 &amp; GPR21</i>	11259 & 2844	61462	0.840349	0.0002	-
AI873645	Cyclin-dependent kinase 5	<i>CDK5</i>	1020	2437211	0.840164	0.0002	+
AA452968	Staufen, RNA binding protein, homolog 2 (Drosophila)	<i>STAU2</i>	27067	788549	0.837651	0.0002	+
AA191433	Met proto-oncogene (hepatocyte growth factor receptor)	<i>MET</i>	4233	626841	0.83718	0.0002	-
T58582	Tachykinin 3 (neuromedin K, neurokinin beta)	<i>TAC3</i>	6866	69279	0.836932	0.0002	-
T48312	Multiple cluster hits:511916 & 547792	<i>:ENSA &amp; 0</i>	2029 & 0	74070	0.836535	0.0002	-
AI401528	Hypothetical protein MGC34646	<i>MGC34646</i>	157807	2110073	0.830381	0.0002	+
T68405	Frizzled homolog 6 (Drosophila)	<i>FZD6</i>	8323	83297	0.828792	0.0002	-
AA620421	Doublecortin; lissencephaly, X-linked (doublecortin)	<i>DCX</i>	1641	951022	0.82559	0.0002	-
AA464628	Serine/threonine kinase 3 (STE20 homolog, yeast)	<i>STK3</i>	6788	810506	0.822947	0.0002	+
AA028164	5'-3' exoribonuclease 2	<i>XRN2</i>	22803	364840	0.822401	0.0002	+
AA486511	Membrane-type 1 matrix metalloproteinase cytoplasmic tail binding protein-1	<i>MTCBP-1</i>	55256	843126	0.821007	0.0002	+
AA704486	KIAA1280 protein	<i>KIAA1280</i>	55841	450754	0.819555	0.0002	-
AA504239	CGI-07 protein	<i>CGI-07</i>	51068	825031	0.819402	0.0002	+
AI821270	Aspartyl-tRNA synthetase	<i>DARS</i>	1615	855413	0.815901	0.0002	-
AA629901	Hypothetical protein MGC33510	<i>MGC33510</i>	254778	884658	0.815835	0.0002	-
AI675369	Phospholipase A2-activating protein	<i>PLAA</i>	9373	2313732	0.814341	0.0002	+
AA219045	Microtubule-associated protein 1B	<i>MAP1B</i>	4131	629896	0.814021	0.0002	+
AA455003	General transcription factor IIIH, polypeptide 1, 62kDa	<i>GTF2H1</i>	2965	811942	0.813687	0.0002	+
T49460	Transcribed locus	<i>0</i>	0	67523	0.812694	0.0002	-
AA082526	Bromodomain adjacent to zinc finger domain, 1B	<i>BAZ1B</i>	9031	366041	0.8081	0.0002	-
AA416834	WD repeat domain 41	<i>WDR41</i>	55255	731261	0.807851	0.0002	+
AA521247	Solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	<i>SLC25A20</i>	788	827152	0.807096	0.0002	+
AA878899	Galactosidase, beta 1	<i>GLB1</i>	2720	1493175	0.806781	0.0002	+
AA143773	FXD domain containing ion transport regulator 3	<i>FXD3</i>	5349	588460	0.803884	0.0002	-
AI205344	Solute carrier family 43, member 2	<i>SLC43A2</i>	124935	1952979	0.802871	0.0002	-
AI733873	Dedicator of cytokinesis 9	<i>DOCK9</i>	23348	593280	0.802842	0.0004	-
W01360	CDNA clone IMAGE:3542720	<i>0</i>	0	278540	0.801919	0.0002	+
AA773329	Transcribed locus	<i>0</i>	0	845700	0.80019	0.0002	-
R43233	MYST histone acetyltransferase (monocytic leukemia) 3	<i>MYST3</i>	7994	31887	0.799084	0.0002	-
AA455475	Dynein, cytoplasmic, intermediate polypeptide 2	<i>DNCI2</i>	1781	809714	0.798209	0.0002	+
T87514	B lymphoma Mo-MLV insertion region (mouse)	<i>BMI1</i>	648	115408	0.797943	0.0002	+
AA171755	Hypothetical protein DKFZp762F0713	<i>DKFZp762F0713</i>	283554	594659	0.794907	0.0002	-
AA489478	Mitochondrial ribosomal protein L33	<i>MRPL33</i>	9553	897448	0.794271	0.0002	+
W39618	Multiple cluster hits:491577 & 520283	<i>MYST3 &amp; 0</i>	7994 & 0	322723	0.793719	0.0002	-
AW007636	Ubiquinol-cytochrome c reductase core protein II	<i>UQCRC2</i>	7385	2511553	0.792772	0.0002	+
T62493	K+ channel tetramerization protein	<i>GMRP-1</i>	84280	79632	0.792713	0.0002	-
AA599107	Sideroflexin 1	<i>SFXN1</i>	94081	950461	0.791738	0.0002	-
R32354	Hypothetical protein from EUROIMAGE 1669387	<i>LOC56930</i>	56930	134976	0.790718	0.0002	-
AI886127	Nuclear domain 10 protein	<i>NDP52</i>	10241	2445606	0.790612	0.0002	+
BX096578	Multiple cluster hits:497145 & 509200	<i>0 &amp; CTAGE5</i>	0 & 4253	155197	0.788432	0.0002	+
R96668	Chemokine (C-C motif) ligand 14	<i>CCL15</i>	6359	199663	0.787927	0.0002	+
AA086292	DKFZP564O0823 protein	<i>DKFZP564O0823</i>	25849	561851	0.785924	0.0002	-

AA486628	Early growth response 1	<i>EGR1</i>	1958	840944	0.785592	0.0002	+
AW072778	Transcription factor CP2	<i>TFCP2</i>	7024	2569025	0.785443	0.0002	+
W86145	Rho GTPase activating protein 5	<i>ARHGAP5</i>	394	416256	0.784395	0.0002	-
AA432292	Hypothetical protein DKFZp434F0318	<i>DKFZP434F0318</i>	81575	781468	0.784385	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 AMLs, the minus (-) sign indicates up-regulation in normal cells.