

**Table 23. The top-100 differentially expressed genes in *MLL* vs. B lineage ALL and AML**

Accession no.	Gene name	Gene symbol	Entrez gene	Reporter ID	Score*	P	Sign <sup>†</sup>
AA001444	Meis1, myeloid ecotropic viral integration site 1 homolog (mouse)	<i>MEIS1</i>	4211	361943	1.227079	0.0002	+
AA953229	Homeo box A10	<i>HOXA10</i>	3206	1592006	1.158795	0.0002	+
AA778198	Pre-B cell leukemia transcription factor 3	<i>PBX3</i>	5090	448386	1.034786	0.0002	+
AA775357	Similar to jumonji domain containing 1A; testis-specific protein A; zinc finger protein	<i>0</i>	439979	878680	0.898084	0.0002	+
AA055440	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)	<i>SPRY1</i>	10252	377468	0.884926	0.0002	-
AA460463	Cytokine-like protein C17	<i>C17</i>	54360	796569	0.781291	0.0002	-
AW057757	Palladin	<i>KIAA0992</i>	23022	2542582	0.777822	0.0002	+
BX281560	Nuclear RNA export factor 3	<i>NXF3</i>	56000	430291	0.757324	0.0002	-
AA629926	Zinc finger protein 544	<i>ZNF544</i>	27300	884683	0.756505	0.0002	-
AA664020	Deleted in liver cancer 1	<i>DLC1</i>	10395	855422	0.749944	0.0002	-
AA489040	Ecotropic viral integration site 2A	<i>EV12A</i>	2123	824933	0.742808	0.0002	-
AA411757	Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	<i>CEACAM1</i>	634	753301	0.735312	0.0002	-
H90152	Growth hormone regulated TBC protein 1	<i>GRTP1</i>	79774	240896	0.720316	0.0002	-
W86201	Transmembrane 4 superfamily member 13	<i>TM4SF13</i>	27075	416374	0.715215	0.0002	-
AA016225	Chromosome 9 open reading frame 123	<i>C9orf123</i>	90871	359269	0.702891	0.0002	+
BX112804	Brevican	<i>BCAN</i>	63827	32687	0.702151	0.0002	+
AA436506	Nuclear factor I/X (CCAAT binding transcription factor)	<i>NFIX</i>	4784	753034	0.693566	0.0002	-
AA486942	Capping protein (actin filament), gelsolin-like	<i>CAPG</i>	822	841059	0.680292	0.0002	+
T91261	Mannosidase, alpha, class 1A, member 1	<i>MAN1A1</i>	4121	112629	0.672439	0.0004	-
AA055194	DEAH (Asp-Glu-Ala-His) box polypeptide 29	<i>DHX29</i>	54505	377193	0.67237	0.0002	-
AA701996	Delta-like 1 homolog (Drosophila)	<i>DLK1</i>	8788	436121	0.666669	0.0002	-
N53061	Hypothetical protein MGC5242	<i>MGC5242</i>	78996	246546	0.663319	0.0002	-
AI745626	Metallothionein 1G	<i>MT1G</i>	4495	2317017	0.660308	0.0002	-
W74533	Latrophilin 2	<i>LPHN2</i>	23266	346583	0.659638	0.0002	-
AA453789	Multiple cluster hits:90572 & 460468	<i>PTK7 &amp; XPO6</i>	5754 & 23214	813742	0.656895	0.0002	-
AA401578	Chromosome 16 open reading frame 5	<i>C16orf5</i>	29965	742562	0.648482	0.0002	-
BX104994	RNA binding protein with multiple splicing 2	<i>RBPM52</i>	348093	136668	0.64436	0.0002	-
AI984983	Phospholipase A2, group IVA (cytosolic, calcium-dependent)	<i>PLA2G4A</i>	5321	2494805	0.64402	0.0002	+
AA490700	Myosin, heavy polypeptide 10, non-muscle	<i>MYH10</i>	4628	823886	0.643793	0.0004	-
AA452937	Syntaxin binding protein 6 (amisyn)	<i>STXBP6</i>	29091	788524	0.640349	0.0002	-
AA447599	Cytoplasmic linker associated protein 2	<i>CLASP2</i>	23122	782700	0.64021	0.0002	+
N24824	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	<i>KIT</i>	3815	269806	0.639918	0.0004	-
H59916	Multiple cluster hits:375108 & 511464	<i>CD24 &amp; 0</i>	934 & 440281	204335	0.638075	0.0002	-
T71879	Complement component 2	<i>C2</i>	717	85497	0.636721	0.0002	+
AA872011	AXIN1 up-regulated 1	<i>AXUD1</i>	64651	1475662	0.635138	0.0002	-
H84154	Cyclin D2	<i>CCND2</i>	894	249688	0.634396	0.0004	-
AA421691	UDP-glucose ceramide glucosyltransferase	<i>UGCG</i>	7357	739123	0.632531	0.0004	-
BX116210	Apolipoprotein C-II	<i>APOC2</i>	344	809523	0.632069	0.0002	+
N20003	Chromosome 2 open reading frame 32	<i>C2orf32</i>	25927	263341	0.631874	0.0004	-
BX106131	Thyrotropin-releasing hormone	<i>TRH</i>	7200	382787	0.630144	0.0002	-
AI681015	Suppressor of cytokine signaling 6	<i>SOCS6</i>	9306	2272331	0.630138	0.0002	-
AI927284	Lectin, galactoside-binding, soluble, 1 (galectin 1)	<i>LGALS1</i>	3956	2461050	0.622729	0.0004	+
BX102233	Breast cancer 1, early onset	<i>BRCA1</i>	672	241474	0.621966	0.0002	-
BX094473	Syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	<i>SNTB2</i>	6645	263271	0.620887	0.0002	-
H10488	Adenylate kinase 2	<i>AK2</i>	204	45464	0.620681	0.0002	+
AA894557	Creatine kinase, brain	<i>CKB</i>	1152	1416782	0.616469	0.0002	-
N68644	Fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)	<i>FGFR3</i>	2261	293164	0.612566	0.0002	-

R11551	Cholesteryl ester transfer protein, plasma	<i>CETP</i>	1071	129988	0.6113	0.0002	-
AA421512	Islet cell autoantigen 1, 69kDa	<i>ICA1</i>	3382	731129	0.610653	0.0002	-
BX099462	Hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	<i>HIF1A</i>	3091	325117	0.6101	0.0004	-
AA436142	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican)	<i>SPOCK</i>	6695	754358	0.607729	0.0002	+
AA620591	CDNA clone MGC:24463 IMAGE:4082362, complete cds	<i>0</i>	0	951313	0.606492	0.0004	+
AA703392	Complement factor H-related 1	<i>CFHL1</i>	3078	450060	0.606382	0.0002	-
A1652223	Wingless-type MMTV integration site family, member 10B	<i>WNT10B</i>	7480	2306221	0.599535	0.0002	+
N67007	Multiple cluster hits:268326 & 371021	<i>OCIL &amp; LAPTM5</i>	29121 & 7805	295868	0.597951	0.0004	+
N47388	Stonin 2	<i>STN2</i>	85439	280602	0.597944	0.0006	-
AA070226	Selenoprotein P, plasma, 1	<i>SEPP1</i>	6414	530814	0.596706	0.0006	-
AA293453	Sideroflexin 3	<i>SFXN3</i>	81855	726236	0.596697	0.0004	+
AA128553	Amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	<i>APP</i>	351	526616	0.594608	0.0004	-
A1302421	Lectin-like NK cell receptor	<i>OCIL</i>	29121	1901749	0.592973	0.0006	+
N74131	Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	298417	0.588496	0.0002	-
H90975	Neural precursor cell expressed, developmentally down-regulated 4	<i>NEDD4</i>	4734	240711	0.58637	0.0002	-
H77541	Multiple cluster hits:95990 & 284171	<i>PKLR &amp; HCN3</i>	5313 & 57657	234522	0.584502	0.0002	-
AA707413	Myc target 1	<i>MYCT1</i>	80177	451557	0.582221	0.0002	-
AA490828	Chromosome 2 open reading frame 22	<i>C2orf22</i>	130814	824312	0.582145	0.001	+
T62715	Aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	<i>AKR7A2</i>	8574	79592	0.580977	0.0008	+
BX107491	Vitamin K epoxide reductase complex, subunit 1-like 1	<i>VKORC1L1</i>	154807	470006	0.576444	0.0006	-
W52082	Mitochondrial ribosomal protein L33	<i>MRPL33</i>	9553	325520	0.575207	0.0002	+
AA778089	Leucine rich repeat neuronal 1	<i>LRRN1</i>	57633	379709	0.571392	0.0002	-
T56858	Growth factor independent 1B (potential regulator of CDKN1A, translocated in CML)	<i>GFI1B</i>	8328	68266	0.568516	0.0002	-
AA863469	Lipoma HMGIC fusion partner-like 2	<i>LHFPL2</i>	10184	1469377	0.567917	0.0002	-
H47496	Multiple cluster hits:15792 & 496755	<i>0 &amp; C14orf128</i>	0 & 84837	193151	0.563181	0.0002	-
AA634300	IGF-II mRNA-binding protein 2	<i>IMP-2</i>	10644	743774	0.562522	0.0004	+
BX096034	Asialoglycoprotein receptor 1	<i>ASGR1</i>	432	204541	0.56215	0.0006	-
BX089808	Hypothetical protein LOC285812	<i>LOC285812</i>	285812	32522	0.558178	0.0006	-
A1799757	Immunoglobulin heavy variable 1/OR15-1	<i>0</i>	388077	2320870	0.557547	0.0006	-
BX101261	Homeo box A4	<i>HOXA4</i>	3201	785930	0.556587	0.0004	+
AA886758	Chromosome 1 open reading frame 24	<i>C1orf24</i>	116496	1500241	0.55626	0.001	-
AA677025	Similar to annexin II receptor	<i>0</i>	389289	454564	0.556239	0.0008	+
A1888228	Alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase, CD13, p150)	<i>ANPEP</i>	290	2441080	0.556196	0.0008	-
BX094091	Multiple cluster hits:9887 & 378808	<i>0 &amp; eIF2A</i>	0 & 83939	41132	0.555618	0.0004	+
N90806	Hypothetical protein FLJ14054	<i>FLJ14054</i>	79614	303139	0.552296	0.0002	-
N49899	Solute carrier family 18 (vesicular monoamine), member 2	<i>SLC18A2</i>	6571	243653	0.550712	0.0004	-
AA427666	Potassium voltage-gated channel, subfamily H (eag-related), member 2	<i>KCNH2</i>	3757	770012	0.548369	0.0008	-
H71081	Hexosaminidase B (beta polypeptide)	<i>HEXB</i>	3074	211780	0.546825	0.0006	+
N59851	WAS protein family, member 1	<i>WASF1</i>	8936	284734	0.546503	0.001	-
BX088745	B/K protein	<i>LOC51760</i>	51760	1239845	0.54611	0.0002	+
AA629591	Testis enhanced gene transcript (BAX inhibitor 1)	<i>TEGT</i>	7009	884766	0.544982	0.0002	-
AA421504	Mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	<i>MGAT3</i>	4248	731060	0.544465	0.0004	-
AW075557	Bromodomain adjacent to zinc finger domain, 2A	<i>BAZ2A</i>	11176	2577057	0.543388	0.0006	+
AW029299	Interleukin 17 receptor	<i>IL17R</i>	23765	2543085	0.541034	0.0008	+
BX099294	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	<i>B4GALT6</i>	9331	396098	0.539697	0.0002	-
N63988	Interferon-induced protein with tetratricopeptide repeats 2	<i>IFIT2</i>	3433	289496	0.539248	0.001	-
BX105581	Lymphocyte antigen 86	<i>LY86</i>	9450	2333826	0.538831	0.001	+
H29077	Lysosomal-associated membrane protein 1	<i>LAMP1</i>	3916	49710	0.535673	0.001	-
N27159	Inhibin, beta A (activin A, activin AB alpha polypeptide)	<i>INHBA</i>	3624	269815	0.533414	0.0008	-
T82077	Cell division cycle 27	<i>CDC27</i>	996	109708	0.533294	0.001	+

R66325	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	<i>CSF2RB</i>	1439	141115	0.531242	0.001	-
AA480851	Claudin 10	<i>CLDN10</i>	9071	810761	0.529968	0.001	-
T48950	Rhesus blood group-associated glycoprotein	<i>RHAG</i>	6005	70489	0.52818	0.001	-

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

†The plus (+) sign indicates relative up-regulation in *MLL*-positive leukemias, the minus (-) sign indicates up-regulation the remaining leukemias