

## **Annexes**



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## Annexes

**Annex I Additional information about the 11 candidate biomarkers in patients with AML-M1 categorized in the intermediate prognostic risk group.** For each gene is represented the expression status related to the subgroup with better prognosis, the ratio calculated between the number of patients present in two subgroups, the foldchange, the t-test and Mann-Whitney test *p-value*, and the bibliographic searching.

gene	expression status	Ratio	foldchange	<i>p-value</i>	Bibliographic Analysis
<i>TATDN3</i>	low	1.44444	0.38293	0.04338	never cited
<i>PBDC1</i>	low	1.18182	0.39249	0.00885	non-leukemia cancer types
<i>CLIC1</i>	low	1.3	0.29932	0.04216	non-AML leukemia types
<i>SNAP23</i>	low	0.76923	0.32727	0.01879	cited in AML
<i>NNMT</i>	high	1.4	0.24789	0.00415	non-AML leukemia types
<i>CLEC4G</i>	high	0.84615	0.1776	0.00109	non-leukemia cancer types
<i>ARHGAP23</i>	high	0.84615	0.32331	0.04095	non-AML leukemia types
<i>ABCC9</i>	high	0.84615	-0.02822	0	non-leukemia cancer types
<i>ZBED3</i>	high	1.18182	0.36411	0.0352	non-leukemia cancer types
<i>MCM4</i>	high	0.76923	0.29567	0.02136	cited in AML
<i>SLC10A4</i>	high	0.76923	0.25972	0.00349	non-leukemia cancer types

**Annex II List of the gene sets shared by the majority of the intermediate-poor AML-M1 that were differentially enriched in comparison with the intermediate-favorable subgroups.** For each gene set is represented the number and the percentage of intermediate-poor subgroups that had the gene sets enriched (n and percentage), a representative *p-value* and the status (upregulated (up) or downregulated (down)).

Set	n	Percentage	p-value	status
GO:0045089 positive regulation of innate immune response	10	91	0.005	up
GO:0045088 regulation of innate immune response	10	91	0.005	up
GO:0002833 positive regulation of response to biotic stimulus	10	91	0.006	up
GO:0071800 podosome assembly	10	91	0.013	up
GO:0002715 regulation of natural killer cell mediated immunity	10	91	0.016	up
GO:0002228 natural killer cell mediated immunity	10	91	0.017	up
GO:0002831 regulation of response to biotic stimulus	10	91	0.017	up
GO:0071801 regulation of podosome assembly	10	91	0.025	up
GO:0002507 tolerance induction	10	91	0.027	up
GO:0044106 cellular amine metabolic process	10	91	0.032	up
GO:1903902 positive regulation of viral life cycle	10	91	0.042	up
GO:0042271 susceptibility to natural killer cell mediated cytotoxicity	10	91	0.044	up
GO:0042269 regulation of natural killer cell mediated cytotoxicity	10	91	0.046	up
GO:0015669 gas transport	11	100	0.003	down
GO:0001501 skeletal system development	11	100	0.006	down
GO:0035924 cellular response to vascular endothelial growth factor stimulus	11	100	0.007	down
GO:0042744 hydrogen peroxide catabolic process	11	100	0.008	down
GO:0038084 vascular endothelial growth factor signaling pathway	11	100	0.009	down
GO:0042476 odontogenesis	11	100	0.01	down
GO:0015671 oxygen transport	11	100	0.011	down
GO:0048593 camera-type eye morphogenesis	11	100	0.017	down
GO:0060042 retina morphogenesis in camera-type eye	11	100	0.018	down
GO:0060537 muscle tissue development	11	100	0.019	down
GO:0018149 peptide cross-linking	11	100	0.021	down
GO:0048762 mesenchymal cell differentiation	11	100	0.022	down
GO:0097090 presynaptic membrane organization	11	100	0.023	down
GO:0071772 response to BMP	11	100	0.023	down
GO:0071773 cellular response to BMP stimulus	11	100	0.023	down
GO:0030509 BMP signaling pathway	11	100	0.023	down
GO:0030199 collagen fibril organization	11	100	0.024	down
GO:0060485 mesenchyme development	11	100	0.024	down
GO:0043568 positive regulation of insulin-like growth factor receptor signaling pathway	11	100	0.027	down
GO:0044331 cell-cell adhesion mediated by cadherin	11	100	0.028	down
GO:0007494 midgut development	11	100	0.028	down
GO:0001958 endochondral ossification	11	100	0.028	down
GO:0036075 replacement ossification	11	100	0.028	down

Set	n	Percentage	p-value	status
GO:0048009 insulin-like growth factor receptor signaling pathway	11	100	0.029	down
GO:0070208 protein heterotrimerization	11	100	0.039	down
GO:0043567 regulation of insulin-like growth factor receptor signaling pathway	11	100	0.04	down
GO:0048863 stem cell differentiation	11	100	0.044	down
GO:0003407 neural retina development	11	100	0.044	down
GO:0060041 retina development in camera-type eye	11	100	0.045	down
GO:0070571 negative regulation of neuron projection regeneration	11	100	0.047	down
GO:0016339 calcium-dependent cell-cell adhesion via plasma membrane cell adhesion molecules	11	100	0.048	down
GO:0031111 negative regulation of microtubule polymerization or depolymerization	11	100	0.05	down
GO:0048592 eye morphogenesis	10	91	0.003	down
GO:0051216 cartilage development	10	91	0.008	down
GO:0001654 eye development	10	91	0.008	down
GO:0048705 skeletal system morphogenesis	10	91	0.013	down
GO:0010717 regulation of epithelial to mesenchymal transition	10	91	0.014	down
GO:0043010 camera-type eye development	10	91	0.016	down
GO:0007158 neuron cell-cell adhesion	10	91	0.019	down
GO:0150063 visual system development	10	91	0.02	down
GO:0001945 lymph vessel development	10	91	0.02	down
GO:0048880 sensory system development	10	91	0.02	down
GO:0061448 connective tissue development	10	91	0.022	down
GO:0030510 regulation of BMP signaling pathway	10	91	0.023	down
GO:0090596 sensory organ morphogenesis	10	91	0.023	down
GO:0048701 embryonic cranial skeleton morphogenesis	10	91	0.025	down
GO:0007423 sensory organ development	10	91	0.025	down
GO:0042475 odontogenesis of dentin-containing tooth	10	91	0.028	down
GO:0060393 regulation of pathway-restricted SMAD protein phosphorylation	10	91	0.031	down
GO:0048070 regulation of developmental pigmentation	10	91	0.031	down
GO:0048286 lung alveolus development	10	91	0.034	down
GO:0003283 atrial septum development	10	91	0.034	down
GO:0003180 aortic valve morphogenesis	10	91	0.035	down
GO:0002062 chondrocyte differentiation	10	91	0.036	down
GO:0044342 type B pancreatic cell proliferation	10	91	0.036	down
GO:0048048 embryonic eye morphogenesis	10	91	0.039	down
GO:0001946 lymphangiogenesis	10	91	0.040	down
GO:0060411 cardiac septum morphogenesis	10	91	0.040	down
GO:0003206 cardiac chamber morphogenesis	10	91	0.040	down
GO:0003179 heart valve morphogenesis	10	91	0.040	down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b>p-value</b>	<b>status</b>
GO:0002063 chondrocyte development	10	91	0.040	down
GO:0042743 hydrogen peroxide metabolic process	10	91	0.042	down
GO:0198738 cell-cell signaling by wnt	10	91	0.042	down
GO:0016055 Wnt signaling pathway	10	91	0.043	down
GO:0001837 epithelial to mesenchymal transition	10	91	0.043	down
GO:0099068 postsynapse assembly	10	91	0.043	down
GO:0014033 neural crest cell differentiation	10	91	0.044	down
GO:0061298 retina vasculature development in camera-type eye	10	91	0.045	down
GO:0060349 bone morphogenesis	10	91	0.045	down
GO:0060389 pathway-restricted SMAD protein phosphorylation	10	91	0.046	down
GO:0010862 positive regulation of pathway-restricted SMAD protein phosphorylation	10	91	0.048	down
GO:0014706 striated muscle tissue development	10	91	0.048	down
GO:0010719 negative regulation of epithelial to mesenchymal transition	10	91	0.048	down
GO:0061383 trabecula morphogenesis	10	91	0.049	down
GO:0060840 artery development	10	91	0.049	down
GO:0060973 cell migration involved in heart development	10	91	0.035	down

**Annex III The remaining 122 identified CpG sites whose DNA methylation were able to predict survival in patients with AML-M1 categorized in the intermediate prognostic risk group.**

CpG sites	<i>p-value</i>	Optimal cutpoint	Group1 (n)	Group2 (n)	Age test ( <i>p-value</i> )	Gene	HR
cg10965508	0.0187	0.3989	14	10	0.0947	<i>TTBK1</i>	4.8096
cg24729690	0.0068	0.2206	10	14	0.3481	<i>CPLX2</i>	4.8069
cg05277096	0.0161	0.4688	12	12	0.1054	<i>PDZRN3</i>	4.3179
cg20470136	0.0171	0.2702	14	10	0.1682	<i>MAGEC1</i>	4.2473
cg19784873	0.0251	0.9154	10	12	0.4479	<i>STOX2</i>	4.2361
cg15410411	0.0246	0.2963	12	11	0.5582	<i>HOXC9</i>	4.1089
cg19205023	0.0151	0.4179	10	14	0.5576	<i>DPYSL4</i>	4.0753
cg14663451	0.0180	0.5061	10	14	0.8603	<i>NRG1</i>	3.9259
cg10634568	0.0218	0.7492	12	12	0.1185	<i>ALK</i>	3.9188
cg08912317	0.0409	0.0967	14	10	0.1870	<i>SCIN</i>	3.8666
cg15574301	0.0364	0.5403	12	10	0.5747	<i>PDLIM4</i>	3.8156
cg11424776	0.0357	0.8303	12	12	0.3549	<i>IRX2</i>	3.7297
cg09498078	0.0362	0.5233	14	10	0.5381	<i>MYO10</i>	0.3257
cg19044630	0.0449	0.0961	11	13	0.1314	<i>PRUNE2</i>	0.3205
cg24199599	0.0333	0.3444	14	10	0.5775	<i>SOX18</i>	0.3154
cg18699242	0.0426	0.4518	14	10	0.2912	<i>USP18</i>	0.3130
cg22160300	0.0345	0.7079	13	11	0.5815	<i>TBL1XR1</i>	0.3113
cg05661282	0.0300	0.0902	14	10	0.0890	<i>ZNF154</i>	0.3089
cg16560209	0.0437	0.5582	12	11	0.1089	<i>SKI</i>	0.3080
cg00074365	0.0399	0.4328	13	11	0.9306	<i>UGP2</i>	0.3078
cg11432962	0.0254	0.1455	13	11	0.5046	<i>SOX21</i>	0.3075
cg11218954	0.0247	0.2899	14	10	0.4116	<i>SIX3</i>	0.3074
cg15176413	0.0405	0.4804	10	14	0.7470	<i>FOXK1</i>	0.3038
cg24255089	0.0373	0.1222	13	11	0.8618	<i>FEZF2</i>	0.3038
cg10447977	0.0336	0.5125	13	11	0.5424	<i>ADAMTS9</i>	0.2987
cg06616057	0.0494	0.4886	10	14	0.8603	<i>GOS2</i>	0.2971
cg09337254	0.0237	0.4117	14	10	0.1870	<i>CAPG</i>	0.2950
cg10963518	0.0196	0.3873	14	10	0.5001	<i>SIX3</i>	0.2908
cg02313495	0.0428	0.269	11	13	0.4683	<i>BMF</i>	0.2881
cg00853733	0.0356	0.1115	12	12	0.1254	<i>SETD1B</i>	0.2877
cg08440556	0.0256	0.2513	11	13	0.3099	<i>SCD5</i>	0.2834
cg12841020	0.0256	0.4653	12	12	0.4878	<i>PGF</i>	0.2819
cg16482474	0.0250	0.0504	12	11	0.0789	<i>WDR86</i>	0.2809
cg05259872	0.0367	0.5402	10	14	0.3634	<i>PALLD</i>	0.2760
cg05768983	0.0212	0.1014	14	10	0.6814	<i>HAUS3</i>	0.2719
cg04309234	0.0189	0.4608	13	11	0.6634	<i>PRDMI</i>	0.2713
cg02460419	0.0190	0.2436	12	12	0.8623	<i>ATP6V0A2</i>	0.2608
cg13930766	0.0257	0.4604	13	11	0.1551	<i>MIR147A</i>	0.2583
cg07787614	0.0219	0.5032	13	11	0.5815	<i>TNRC6C</i>	0.2556
cg13844899	0.0086	0.2417	14	10	0.0836	<i>EFCAB10</i>	0.2546

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg13406605	0.0159	0.7838	14	10	0.8834	<i>WDR43</i>	0.2538
cg26434090	0.0099	0.7677	14	10	0.6814	<i>DSCAML1</i>	0.2537
cg13422817	0.0166	0.4767	14	10	0.6814	<i>FGF6</i>	0.2501
cg15697476	0.0123	0.0427	14	10	0.4816	<i>TNXB</i>	0.2475
cg10966440	0.0133	0.5462	14	10	0.0890	<i>OPCML</i>	0.2436
cg08198176	0.0114	0.3667	12	12	0.7947	<i>ITGA9</i>	0.2422
cg14069287	0.0100	0.7564	13	11	0.1469	<i>PALLD</i>	0.2393
cg16993682	0.0204	0.7333	12	11	0.8292	<i>CD1C</i>	0.2381
cg23850277	0.0097	0.4696	13	11	0.2230	<i>MMP11</i>	0.2373
cg02473540	0.0176	0.2983	12	12	0.0778	<i>ZNF135</i>	0.2361
cg22888463	0.0178	0.5899	11	13	0.3239	<i>EIF4E3</i>	0.2348
cg11567001	0.0090	0.015	14	10	0.3332	<i>SMARCD3</i>	0.2347
cg09863950	0.0171	0.8218	11	13	0.7277	<i>HTR6</i>	0.2333
cg13454846	0.0413	0.7141	10	14	0.8603	<i>TMEM82</i>	0.2322
cg09652652	0.0090	0.0142	13	11	0.6425	<i>FAM43A</i>	0.2308
cg24845329	0.0412	0.7526	11	11	0.5542	<i>THEG</i>	0.2282
cg05643188	0.0076	0.4339	13	11	0.4507	<i>C1orf53</i>	0.2276
cg23865240	0.0180	0.8447	12	12	0.8623	<i>HOXA1</i>	0.2244
cg08901339	0.0094	0.6112	13	11	0.2122	<i>BLNK</i>	0.2217
cg12128164	0.0043	0.5706	14	10	0.0947	<i>LRFN3</i>	0.2195
cg19097500	0.0060	0.2859	13	11	0.0721	<i>NFIA</i>	0.2186
cg12059147	0.0078	0.2324	11	13	0.0817	<i>FAM183A</i>	0.2180
cg24109116	0.0122	0.2269	11	13	0.3841	<i>MBLAC1</i>	0.2179
cg17847344	0.0297	0.4583	9	14	0.2978	<i>EBF1</i>	0.2145
cg11923320	0.0047	0.5059	13	11	0.0924	<i>LINC00466</i>	0.2088
cg24764102	0.0228	0.6173	10	14	0.4635	<i>TCF3</i>	0.2023
cg14351425	0.0075	0.1359	13	11	0.5424	<i>GRK5</i>	0.2021
cg03942932	0.0064	0.4855	13	11	0.5233	<i>PRDM1</i>	0.2001
cg02960347	0.0081	0.5211	13	11	0.7061	<i>PTPRG</i>	0.1961
cg22675956	0.0042	0.4566	11	13	0.1637	<i>SH3PXD2B</i>	0.1960
cg11772661	0.0175	0.3004	11	13	0.9306	<i>SHTN1</i>	0.1951
cg16686175	0.0086	0.7369	11	13	0.1551	<i>DHX40</i>	0.1947
cg13456470	0.0183	0.5172	10	14	0.5381	<i>PTCH1</i>	0.1932
cg05264870	0.0034	0.3143	14	10	0.0606	<i>NRP2</i>	0.1918
cg01815626	0.0183	0.6091	10	13	0.5764	<i>KRT6A</i>	0.1889
cg16616386	0.0053	0.1146	12	12	0.5247	<i>TENT4B</i>	0.1850
cg09636245	0.0053	0.2728	13	11	0.4683	<i>CYB5R2</i>	0.1828
cg03048432	0.0140	0.4406	12	12	0.7505	<i>NIN</i>	0.1815
cg01268022	0.0143	0.6315	10	14	0.5381	<i>FKBP14</i>	0.1815
cg09857070	0.0050	0.6445	12	12	0.2847	<i>ACTRT2</i>	0.1805
cg06209897	0.0134	0.5729	11	13	0.8618	<i>PRKG1</i>	0.1793
cg19189201	0.0121	0.4762	10	14	0.1682	<i>FAM169B</i>	0.1776
cg02436098	0.0018	0.3836	14	10	0.2293	<i>TNFAIP8L1</i>	0.1746

<b>CpG sites</b>	<i>p-value</i>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg03752138	0.0026	0.6808	13	11	0.0924	<i>SOCS3</i>	0.1723
cg01557754	0.0025	0.5579	13	10	0.1132	<i>FGF11</i>	0.1712
cg14003022	0.0094	0.494	11	13	0.0721	<i>HTT-AS</i>	0.1698
cg01423820	0.0047	0.1103	14	10	0.6182	<i>VASH1</i>	0.1698
cg19013753	0.0047	0.657	14	10	0.6182	<i>SNUPN</i>	0.1698
cg08084860	0.0041	0.1619	12	12	0.5061	<i>GBX2</i>	0.1687
cg11762213	0.0085	0.4997	10	14	0.5381	<i>LINGO3</i>	0.1653
cg07054253	0.0009	0.1328	14	10	0.0647	<i>MATK</i>	0.1617
cg25120210	0.0096	0.7703	9	13	0.9733	<i>DOK7</i>	0.1611
cg16904585	0.0022	0.1302	11	12	0.0789	<i>GRIN2A</i>	0.1580
cg04231888	0.0025	0.5938	13	10	0.5344	<i>NAV2</i>	0.1539
cg21171339	0.0054	0.698	11	12	0.2672	<i>VPS13A</i>	0.1531
cg22854078	0.0021	0.1486	12	12	0.0643	<i>CHIT1</i>	0.1529
cg03457195	0.0031	0.6267	13	11	0.3099	<i>TBR1</i>	0.1518
cg19933238	0.0051	0.6541	10	14	0.5189	<i>APIAR</i>	0.1514
cg19334176	0.0047	0.3539	11	13	0.2831	<i>DIP2C</i>	0.1488
cg13097993	0.0015	0.561	13	11	0.1469	<i>ATL1</i>	0.1479
cg25143508	0.0016	0.4362	14	10	0.6601	<i>PRELP</i>	0.1474
cg10707081	0.0013	0.6332	11	13	0.0555	<i>PCDH9</i>	0.1451
cg14660726	0.0023	0.1256	12	12	0.4878	<i>HLX</i>	0.1332
cg25583983	0.0040	0.3381	13	11	0.0593	<i>MICA</i>	0.1303
cg11279838	0.0028	0.2111	11	13	0.1314	<i>IRX4</i>	0.1294
cg00653615	0.0007	0.389	13	10	0.1717	<i>CDC42SE1</i>	0.1264
cg16000360	0.0005	0.2596	14	10	0.2528	<i>GUK1</i>	0.1250
cg13176979	0.0023	0.566	10	14	0.6601	<i>HMGN3</i>	0.1250
cg26800803	0.0025	0.3975	12	12	0.2847	<i>FOXK1</i>	0.1241
cg27105990	0.0001	0.6998	13	9	0.1506	<i>SLC30A8</i>	0.1101
cg00044871	0.0007	0.5147	13	11	0.3239	<i>ATP8A2</i>	0.1045
cg19736179	0.0008	0.853	14	10	0.2181	<i>ARF6</i>	0.1039
cg19170156	0.0006	0.5414	12	12	0.2719	<i>GPATCH8</i>	0.0974
cg02748539	0.0005	0.2693	14	10	0.1273	<i>SLC9A3</i>	0.0959
cg25979108	0.0001	0.3175	14	10	0.1273	<i>REX1BD</i>	0.0840
cg12741639	0.0028	0.3065	9	14	0.3439	<i>CYTH4</i>	0.0830
cg13367169	0.0001	0.0983	14	10	0.0647	<i>EN1</i>	0.0801
cg12322146	0.0013	0.7377	11	13	0.3384	<i>RBMS3</i>	0.0743
cg19918549	0.0000	0.1466	12	11	0.2063	<i>EVL</i>	0.0000
cg03374729	0.0448	0.4797	13	11	0.7496	<i>MIR4493</i>	
cg06186790	0.0246	0.2652	11	13	0.0555	<i>PRSS22</i>	
cg04646186	0.0249	0.6721	10	14	0.1774	<i>GABRG3</i>	

**Annex IV Additional information about the 137 identified CpG sites as candidate biomarkers of prognosis in patients with AML-M1 categorized in the intermediate prognostic risk group.**

CpG site	Genomic location	status	Ratio	Delta beta	p-value	Gene	Bibliographic analysis
cg17410650	Distal Intergenic	low	1.18	-0.35	0.000001	<i>HOXC13</i>	AML
cg06577205	Promoter (<=1kb)	low	0.71	-0.34	0.000001	<i>FBXL7</i>	Cancer
cg12523924	Promoter (2-3kb)	low	0.85	-0.41	0.000001	<i>HTR1A</i>	leukemia
cg27344859	Promoter (1-2kb)	low	1.40	-0.28	0.000001	<i>MIR124-3</i>	cancer
cg21385821	Promoter (<=1kb)	low	1.18	-0.54	0.000001	<i>CA10</i>	cited in AML
cg00662963	Promoter (<=1kb)	low	1.00	-0.24	0.000001	<i>PRR23B</i>	never cited
cg00664792	Other Intron	low	1.18	-0.31	0.000000	<i>SMOC2</i>	non-leukemia cancer types
cg08692733	Promoter (<=1kb)	low	0.71	-0.35	0.000185	<i>RBM20</i>	non-leukemia cancer types
cg20708909	Promoter (<=1kb)	low	1.40	-0.31	0.000001	<i>OPCML</i>	non-leukemia cancer types
cg23385847	1st Intron	low	1.00	-0.23	0.000001	<i>CAMK4</i>	non-AML leukemia types
cg07674139	Promoter (<=1kb)	low	0.71	-0.55	0.000001	<i>NRK</i>	cited in AML
cg25406755	Promoter (<=1kb)	low	0.71	-0.35	0.000001	<i>TFIP11</i>	non-leukemia cancer types
cg23073879	Promoter (2-3kb)	low	1.40	-0.30	0.000001	<i>GALNT17</i>	cited in PubMed
cg25024717	Distal Intergenic	low	1.18	-0.37	0.000002	<i>HOXC13</i>	cited in AML
cg23876072	Promoter (<=1kb)	low	1.00	-0.21	0.000001	<i>ANO1</i>	non-AML leukemia types
cg10965508	Promoter (<=1kb)	low	1.40	-0.30	0.000001	<i>TTBK1</i>	non-leukemia cancer types
cg24729690	Promoter (1-2kb)	low	0.71	-0.40	0.000001	<i>CPLX2</i>	non-leukemia cancer types
cg06186790	3' UTR	low	0.85	-0.36	0.000000	<i>PRSS22</i>	non-leukemia cancer types
cg05277096	Promoter (1-2kb)	low	1.00	-0.33	0.000001	<i>PDZRN3</i>	non-leukemia cancer types
cg20470136	Other Exon	low	1.40	-0.24	0.000006	<i>MAGEC1</i>	non-AML leukemia types
cg19784873	1st Intron	low	0.83	-0.22	0.000003	<i>STOX2</i>	non-leukemia cancer types
cg15410411	Promoter (<=1kb)	low	1.09	-0.33	0.000003	<i>HOXC9</i>	cited in AML

<b>CpG site</b>	<b>Genomic location</b>	<b>status</b>	<b>Ratio</b>	<b>Delta beta</b>	<b>p-value</b>	<b>Gene</b>	<b>Bibliographic analysis</b>
cg19205023	Promoter (1-2kb)	low	0.71	-0.38	0.000001	<i>DPYSL4</i>	non-leukemia cancer types
cg04646186	Promoter (<=1kb)	low	0.71	-0.37	0.000001	<i>GABRG3</i>	non-leukemia cancer types
cg14663451	Promoter (<=1kb)	low	0.71	-0.28	0.000034	<i>NRG1</i>	cited in AML
cg10634568	Distal Intergenic	low	1.00	-0.27	0.000001	<i>ALK</i>	cited in AML
cg08912317	Promoter (<=1kb)	low	1.40	-0.33	0.000001	<i>SCIN</i>	cited in AML
cg15574301	Other Exon	low	1.20	-0.21	0.000003	<i>PDLIM4</i>	cited in AML
cg11424776	Distal Intergenic	low	1.00	-0.27	0.000001	<i>IRX2</i>	cited in AML
cg03374729	Distal Intergenic	low	1.18	-0.43	0.000001	<i>MIR4493</i>	non-leukemia cancer types
cg09498078	Promoter (1-2kb)	high	1.40	-0.46	0.000001	<i>MYO10</i>	non-AML leukemia types
cg19044630	Promoter (<=1kb)	high	0.85	-0.26	0.000001	<i>PRUNE2</i>	cited in AML
cg24199599	Promoter (<=1kb)	high	1.40	-0.49	0.000001	<i>SOX18</i>	cited in AML
cg18699242	Promoter (<=1kb)	high	1.40	-0.57	0.000000	<i>USP18</i>	cited in AML
cg22160300	1st Intron	high	1.18	-0.20	0.000001	<i>TBLXR1</i>	cited in AML
cg05661282	Promoter (<=1kb)	high	1.40	-0.42	0.000001	<i>ZNF154</i>	non-leukemia cancer types
cg16560209	1st Intron	high	1.09	-0.23	0.000002	<i>SKI</i>	cited in AML
cg00074365	Other Intron	high	1.18	-0.49	0.000001	<i>UGP2</i>	cited in AML
cg11432962	Distal Intergenic	high	1.18	-0.28	0.000001	<i>SOX21</i>	non-leukemia cancer types
cg11218954	Distal Intergenic	high	1.40	-0.44	0.000001	<i>SIX3</i>	non-AML leukemia types
cg15176413	Other Intron	high	0.71	-0.48	0.000001	<i>FOXK1</i>	non-leukemia cancer types
cg24255089	Distal Intergenic	high	1.18	-0.22	0.000001	<i>FEZF2</i>	non-AML leukemia types
cg10447977	Other Intron	high	1.18	-0.42	0.000002	<i>ADAMTS9</i>	cited in AML
cg06616057	Promoter (<=1kb)	high	0.71	-0.33	0.000002	<i>GOS2</i>	cited in AML
cg09337254	Promoter (<=1kb)	high	1.40	-0.55	0.000001	<i>CAPG</i>	cited in AML
cg10963518	Distal Intergenic	high	1.40	-0.50	0.000000	<i>SIX3</i>	non-AML leukemia types

<b>CpG site</b>	<b>Genomic location</b>	<b>status</b>	<b>Ratio</b>	<b>Delta beta</b>	<b>p-value</b>	<b>Gene</b>	<b>Bibliographic analysis</b>
cg02313495	Promoter (<=1kb)	high	0.85	-0.35	0.000001	<i>BMF</i>	cited in AML
cg00853733	Promoter (1-2kb)	high	1.00	-0.43	0.000036	<i>SETD1B</i>	cited in AML
cg08440556	Promoter (1-2kb)	high	0.85	-0.36	0.000001	<i>SCD5</i>	non-AML leukemia types
cg12841020	Promoter (<=1kb)	high	1.00	-0.32	0.000003	<i>PGF</i>	cited in AML
cg16482474	Promoter (<=1kb)	high	1.09	-0.26	0.000002	<i>WDR86</i>	cited in PubMed
cg05259872	Promoter (<=1kb)	high	0.71	-0.38	0.000020	<i>PALLD</i>	cited in AML
cg05768983	Promoter (<=1kb)	high	1.40	-0.24	0.000001	<i>HAUS3</i>	non-leukemia cancer types
cg04309234	Distal Intergenic	high	1.18	-0.44	0.000000	<i>PRDM1</i>	cited in AML
cg02460419	Promoter (2-3kb)	high	1.00	-0.32	0.000001	<i>ATP6V0A2</i>	non-AML leukemia types
cg13930766	Distal Intergenic	high	1.18	-0.28	0.000001	<i>MIR147A</i>	never cited
cg07787614	Other Intron	high	1.18	-0.48	0.000001	<i>TNRC6C</i>	non-leukemia cancer types
cg13844899	Promoter (<=1kb)	high	1.40	-0.43	0.000000	<i>EFCAB10</i>	never cited
cg13406605	Promoter (2-3kb)	high	1.40	-0.25	0.000001	<i>WDR43</i>	cited in AML
cg26434090	Promoter (2-3kb)	high	1.40	-0.31	0.000001	<i>DSCAML1</i>	cited in AML
cg13422817	Other Intron	high	1.40	-0.30	0.000002	<i>FGF6</i>	cited in AML
cg15697476	Other Intron	high	1.40	-0.42	0.000001	<i>TNXB</i>	non-AML leukemia types
cg10966440	1st Intron	high	1.40	-0.37	0.000000	<i>OPCML</i>	non-leukemia cancer types
cg08198176	Promoter (<=1kb)	high	1.00	-0.41	0.000000	<i>ITGA9</i>	non-AML leukemia types
cg14069287	Other Intron	high	1.18	-0.22	0.000001	<i>PALLD</i>	cited in AML
cg16993682	Promoter (<=1kb)	high	1.09	-0.22	0.000002	<i>CD1C</i>	cited in AML
cg23850277	Promoter (<=1kb)	high	1.18	-0.38	0.000000	<i>MMP11</i>	non-leukemia cancer types
cg02473540	Promoter (<=1kb)	high	1.00	-0.42	0.000000	<i>ZNF135</i>	non-leukemia cancer types
cg22888463	Promoter (<=1kb)	high	0.85	-0.41	0.000001	<i>EIF4E3</i>	non-leukemia cancer types

<b>CpG site</b>	<b>Genomic location</b>	<b>status</b>	<b>Ratio</b>	<b>Delta beta</b>	<b>p-value</b>	<b>Gene</b>	<b>Bibliographic analysis</b>
cg11567001	Promoter (2-3kb)	high	1.40	-0.42	0.000047	<i>SMARCD3</i>	non-AML leukemia types
cg09863950	Promoter (1-2kb)	high	0.85	-0.27	0.000001	<i>HTR6</i>	non-leukemia cancer types
cg13454846	Promoter (<=1kb)	high	0.71	-0.26	0.000001	<i>TMEM82</i>	non-leukemia cancer types
cg09652652	Promoter (2-3kb)	high	1.18	-0.39	0.000039	<i>FAM43A</i>	non-leukemia cancer types
cg24845329	Promoter (<=1kb)	high	1.00	-0.30	0.000003	<i>THEG</i>	non-AML leukemia types
cg05643188	Promoter (1-2kb)	high	1.18	-0.38	0.000000	<i>C1orf53</i>	never cited
cg23865240	Promoter (1-2kb)	high	1.00	-0.26	0.000001	<i>HOXA1</i>	cited in AML
cg08901339	Promoter (<=1kb)	high	1.18	-0.52	0.000001	<i>BLNK</i>	cited in AML
cg12128164	Promoter (1-2kb)	high	1.40	-0.40	0.000001	<i>LRFN3</i>	non-leukemia cancer types
cg19097500	Promoter (<=1kb)	high	1.18	-0.42	0.000001	<i>NFIA</i>	cited in AML
cg12059147	Promoter (<=1kb)	high	0.85	-0.29	0.000001	<i>FAM183A</i>	cited in PubMed
cg24109116	Promoter (1-2kb)	high	0.85	-0.36	0.000001	<i>MBLAC1</i>	non-leukemia cancer types
cg17847344	Other Intron	high	0.64	-0.22	0.000003	<i>EBF1</i>	cited in AML
cg11923320	Promoter (1-2kb)	high	1.18	-0.35	0.000007	<i>LINC00466</i>	non-leukemia cancer types
cg24764102	Distal Intergenic	high	0.71	-0.34	0.000000	<i>TCF3</i>	cited in AML
cg14351425	Promoter (<=1kb)	high	1.18	-0.43	0.000001	<i>GRK5</i>	non-AML leukemia types
cg03942932	Distal Intergenic	high	1.18	-0.43	0.000000	<i>PRDM1</i>	cited in AML
cg02960347	1st Intron	high	1.18	-0.30	0.000001	<i>PTPRG</i>	cited in AML
cg22675956	Promoter (<=1kb)	high	0.85	-0.32	0.000003	<i>SH3PXD2B</i>	non-leukemia cancer types
cg11772661	Promoter (<=1kb)	high	0.85	-0.22	0.000001	<i>SHTN1</i>	non-leukemia cancer types
cg16686175	Promoter (<=1kb)	high	0.85	-0.39	0.000001	<i>DHX40</i>	non-leukemia cancer types
cg13456470	Promoter (2-3kb)	high	0.71	-0.34	0.000002	<i>PTCH1</i>	cited in AML
cg05264870	Other Intron	high	1.40	-0.24	0.000000	<i>NRP2</i>	non-AML leukemia types
cg01815626	Distal Intergenic	high	0.77	-0.24	0.000063	<i>KRT6A</i>	non-leukemia cancer types

<b>CpG site</b>	<b>Genomic location</b>	<b>status</b>	<b>Ratio</b>	<b>Delta beta</b>	<b>p-value</b>	<b>Gene</b>	<b>Bibliographic analysis</b>
cg16616386	Promoter (<=1kb)	high	1.00	-0.24	0.000001	<i>TENT4B</i>	non-leukemia cancer types
cg09636245	Distal Intergenic	high	1.18	-0.43	0.000001	<i>CYB5R2</i>	non-leukemia cancer types
cg03048432	Other Intron	high	1.00	-0.46	0.000000	<i>NIN</i>	cited in AML
cg01268022	Promoter (1-2kb)	high	0.71	-0.44	0.000001	<i>FKBP14</i>	non-leukemia cancer types
cg09857070	Distal Intergenic	high	1.00	-0.25	0.000001	<i>ACTRT2</i>	cited in PubMed
cg06209897	Other Intron	high	0.85	-0.31	0.000006	<i>PRKG1</i>	cited in AML
cg19189201	Distal Intergenic	high	0.71	-0.29	0.000025	<i>FAM169B</i>	never cited
cg02436098	Promoter (<=1kb)	high	1.40	-0.34	0.000001	<i>TNFAIP8L1</i>	non-AML leukemia types
cg03752138	Promoter (1-2kb)	high	1.18	-0.24	0.000001	<i>SOCS3</i>	cited in AML
cg01557754	Promoter (<=1kb)	high	1.30	-0.22	0.000002	<i>FGF11</i>	non-leukemia cancer types
cg14003022	Distal Intergenic	high	0.85	-0.42	0.000000	<i>HTT-AS</i>	cited in PubMed
cg01423820	Promoter (<=1kb)	high	1.40	-0.21	0.000001	<i>VASH1</i>	non-AML leukemia types
cg19013753	Promoter (<=1kb)	high	1.40	-0.35	0.000001	<i>SNUPN</i>	cited in AML
cg08084860	Distal Intergenic	high	1.00	-0.35	0.000001	<i>GBX2</i>	cited in AML
cg11762213	Promoter (<=1kb)	high	0.71	-0.36	0.000001	<i>LINGO3</i>	non-leukemia cancer types
cg07054253	Promoter (<=1kb)	high	1.40	-0.27	0.000001	<i>MATK</i>	non-AML leukemia types
cg25120210	Promoter (<=1kb)	high	0.69	-0.23	0.000004	<i>DOK7</i>	cited in AML
cg16904585	Promoter (<=1kb)	high	0.92	-0.23	0.000055	<i>GRIN2A</i>	non-leukemia cancer types
cg04231888	1st Intron	high	1.30	-0.29	0.000003	<i>NAV2</i>	non-leukemia cancer types
cg21171339	Promoter (1-2kb)	high	0.92	-0.36	0.000002	<i>VPS13A</i>	non-AML leukemia types
cg22854078	Promoter (<=1kb)	high	1.00	-0.31	0.000001	<i>CHIT1</i>	cited in AML
cg03457195	Distal Intergenic	high	1.18	-0.33	0.000004	<i>TBR1</i>	non-AML leukemia types
cg19933238	Promoter (1-2kb)	high	0.71	-0.38	0.000047	<i>APIAR</i>	non-leukemia cancer types

<b>CpG site</b>	<b>Genomic location</b>	<b>status</b>	<b>Ratio</b>	<b>Delta beta</b>	<b>p-value</b>	<b>Gene</b>	<b>Bibliographic analysis</b>
cg19334176	Other Intron	high	0.85	-0.31	0.000045	<i>DIP2C</i>	non-leukemia cancer types
cg13097993	Promoter (<=1kb)	high	1.18	-0.42	0.000000	<i>ATL1</i>	non-leukemia cancer types
cg25143508	1st Intron	high	1.40	-0.23	0.000002	<i>PRELP</i>	non-AML leukemia types
cg10707081	Other Intron	high	0.85	-0.46	0.000001	<i>PCDH9</i>	cited in AML
cg14660726	Distal Intergenic	high	1.00	-0.23	0.000001	<i>HLX</i>	cited in AML
cg25583983	Promoter (<=1kb)	high	1.18	-0.53	0.000001	<i>MICA</i>	cited in AML
cg11279838	Promoter (1-2kb)	high	0.85	-0.41	0.000001	<i>IRX4</i>	non-leukemia cancer types
cg00653615	Promoter (2-3kb)	high	1.30	-0.26	0.000028	<i>CDC42SE1</i>	non-leukemia cancer types
cg16000360	Promoter (<=1kb)	high	1.40	-0.43	0.000001	<i>GUK1</i>	non-leukemia cancer types
cg13176979	Promoter (<=1kb)	high	0.71	-0.37	0.000001	<i>HMGN3</i>	non-leukemia cancer types
cg26800803	Other Intron	high	1.00	-0.39	0.000000	<i>FOXK1</i>	non-leukemia cancer types
cg27105990	Other Intron	high	1.44	-0.27	0.000004	<i>SLC30A8</i>	non-AML leukemia types
cg00044871	Promoter (<=1kb)	high	1.18	-0.35	0.000010	<i>ATP8A2</i>	non-leukemia cancer types
cg19736179	Distal Intergenic	high	1.40	-0.25	0.000001	<i>ARF6</i>	cited in AML
cg19170156	Promoter (1-2kb)	high	1.00	-0.40	0.000002	<i>GPATCH8</i>	non-leukemia cancer types
cg02748539	Promoter (<=1kb)	high	1.40	-0.24	0.000001	<i>SLC9A3</i>	non-leukemia cancer types
cg25979108	Promoter (1-2kb)	high	1.40	-0.37	0.000004	<i>REX1BD</i>	never cited
cg12741639	Promoter (<=1kb)	high	0.64	-0.29	0.000144	<i>CYTH4</i>	non-leukemia cancer types
cg13367169	Distal Intergenic	high	1.40	-0.29	0.000001	<i>EN1</i>	cited in AML
cg12322146	Distal Intergenic	high	0.85	-0.33	0.000001	<i>RBMS3</i>	non-leukemia cancer types
cg19918549	Promoter (<=1kb)	high	1.09	-0.20	0.000046	<i>EVL</i>	cited in AML

**Annex V The remaining 43 genes whose expression was able to predict survival in patients with AML-M2 categorized in the intermediate prognostic risk group.**

<b>Gene</b>	<b><i>p-value</i></b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (<i>p-value</i>)</b>	<b>HR</b>
<i>MRM3</i>	0.02375	7.8114	11	7	0.44094	4.21824
<i>CYBRD1</i>	0.02929	11.2652	8	11	0.96704	0.25589
<i>ZNF224</i>	0.0133	9.0751	9	10	0.23603	0.24203
<i>FAM20A</i>	0.02328	4.3088	8	10	0.08285	0.24124
<i>CLEC18B</i>	0.01084	2.6684	9	10	0.16475	0.23357
<i>ZNF684</i>	0.0069	6.359	11	8	0.24726	0.23298
<i>FAM126A</i>	0.00979	9.4421	9	9	0.28882	0.21854
<i>SNX16</i>	0.00498	7.7374	11	8	0.64944	0.21561
<i>SLA</i>	0.00796	10.4127	9	10	0.32676	0.2134
<i>ST6GALNAC3</i>	0.00697	2.7741	9	10	0.43754	0.20956
<i>C21orf91</i>	0.00373	10.2372	10	9	0.06595	0.20251
<i>KLHL13</i>	0.00561	6.8216	9	10	0.23603	0.20233
<i>EYA1</i>	0.00561	2.5824	9	10	0.23603	0.20233
<i>RGS5</i>	0.00726	5.1358	8	10	0.26622	0.19748
<i>RAB22A</i>	0.00945	9.4165	9	8	0.73597	0.19501
<i>SHROOM3</i>	0.00656	1.2998	8	11	0.64944	0.18618
<i>CACNA1D</i>	0.00545	3.7138	8	11	0.23078	0.18088
<i>C9orf84</i>	0.00181	5.0632	11	7	0.11261	0.1805
<i>MMAA</i>	0.00161	7.4381	10	9	0.20527	0.17331
<i>ZNF813</i>	0.00227	8.1167	10	8	0.56317	0.17232
<i>DDO</i>	0.00194	6.4547	10	7	0.26116	0.16573
<i>VWA5A</i>	0.00356	7.9268	8	10	0.09104	0.16517
<i>DPYD</i>	0.0031	9.8943	11	7	0.89183	0.15982
<i>CMTR2</i>	0.00362	9.7721	10	7	0.80702	0.15787
<i>ZNF732</i>	0.00076	2.9797	10	9	0.23603	0.15306
<i>OR13C8</i>	0.0007	0	11	8	0.18606	0.15215
<i>GORAB</i>	0.00622	8.2834	7	11	0.36462	0.14778
<i>AS3MT</i>	0.00251	4.2256	11	8	0.53537	0.1475
<i>LRIF1</i>	0.00581	9.3435	7	10	0.10692	0.14218
<i>ITGA1</i>	0.00162	3.3232	11	8	0.43238	0.1397
<i>PRTG</i>	0.00232	1.4603	7	11	0.89183	0.11706
<i>FLT1</i>	0.00168	3.4566	9	10	0.90244	0.11355
<i>PDE10A</i>	0.00028	0	9	10	0.77486	0.08942
<i>ABCB1</i>	0.00016	7.8442	11	8	0.59114	0.08401
<i>ANKRD20A4</i>	0.00019	1.0214	10	9	0.19103	0.07699
<i>SAMD9L</i>	0.00289	11.0946	7	10	0.80702	
<i>MINAR1</i>	0.00004	5.5569	11	8	0.28265	0.06799
<i>ARHGAP44</i>	0.00076	3.848	9	7	0.87375	0.05893
<i>PARP9</i>	0.0004	10.2126	8	10	0.50472	0.05311

<b>Gene</b>	<b><i>p-value</i></b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (<i>p-value</i>)</b>	<b>HR</b>
<i>EPB41L1</i>	0.00011	2.8691	9	10	0.26992	0.04358
<i>KIAA1217</i>	0.00011	3.8593	9	10	0.26992	0.04358
<i>BHMT2</i>	0.00004	0.7764	10	8	0.42366	0.04097
<i>FAM234B</i>	0.00011	8.4386	7	11	0.31864	0

**Annex VI Additional information about the 58 candidate biomarkers of prognostic of gene expression in patients with AML-M2 categorized in the intermediate prognostic risk group.**

<b>Gene</b>	<b>status</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
<i>OSM</i>	low	0.90	0.4453	0.0343	cited in AML
<i>MAP1LC3B2</i>	low	1.43	0.3960	0.0164	non-leukemia cancer types
<i>RNPEP</i>	high	0.73	0.3461	0.0205	non-AML leukemia types
<i>EIF1</i>	low	1.25	0.2952	0.0010	non-leukemia cancer types
<i>SPATA2L</i>	low	1.43	0.4521	0.0164	never cited
<i>SF1</i>	low	1.11	0.2919	0.0001	cited in AML
<i>DNAJC1</i>	low	1.38	0.3675	0.0117	cited in AML
<i>FOSL1</i>	low	1.38	0.4838	0.0090	cited in AML
<i>EXOSC6</i>	low	1.11	0.3752	0.0155	non-AML leukemia types
<i>MAFF</i>	low	0.90	0.5095	0.0045	cited in AML
<i>IL3RA</i>	low	1.38	0.3992	0.0117	cited in AML
<i>HSD11B1L</i>	low	1.11	0.5827	0.0205	cited in PubMed
<i>CYP27B1</i>	low	0.90	0.6188	0.0003	cited in AML
<i>DDX27</i>	low	1.11	0.3350	0.0155	non-leukemia cancer types
<i>NDUFS4</i>	low	1.38	0.3725	0.0434	non-leukemia cancer types
<i>MRM3</i>	low	1.57	0.3943	0.0205	non-leukemia cancer types
<i>CYBRD1</i>	high	0.73	0.3006	0.0155	cited in AML
<i>ZNF224</i>	high	0.90	0.3371	0.0267	non-AML leukemia types
<i>FAM20A</i>	high	0.80	0.3910	0.0001	non-leukemia cancer types
<i>CLEC18B</i>	high	0.90	0.3562	0.0220	non-leukemia cancer types
<i>ZNF684</i>	high	1.38	0.3851	0.0014	never cited
<i>FAM126A</i>	high	1.00	0.3299	0.0343	non-leukemia cancer types
<i>SNX16</i>	low	1.38	0.3599	0.0014	non-leukemia cancer types
<i>SLA</i>	high	0.90	0.2984	0.0009	cited in AML
<i>ST6GALNAC3</i>	high	0.90	0.1649	0.0020	non-leukemia cancer types
<i>C21orf91</i>	high	1.11	0.2973	0.0086	non-leukemia cancer types
<i>KLHL13</i>	high	0.90	0.3225	0.0454	non-leukemia cancer types
<i>EYA1</i>	high	0.90	0.2484	0.0437	cited in AML
<i>RGS5</i>	high	0.80	0.4093	0.0330	cited in AML
<i>RAB22A</i>	high	1.13	0.3319	0.0007	non-AML leukemia types
<i>SHROOM3</i>	high	0.73	-0.2136	0.0254	non-leukemia cancer types
<i>CACNA1D</i>	high	0.73	0.3417	0.0228	non-AML leukemia types
<i>C9orf84</i>	low	1.57	0.3937	0.0464	non-leukemia cancer types
<i>MMAA</i>	high	1.11	0.3609	0.0002	non-leukemia cancer types
<i>ZNF813</i>	high	1.25	0.3566	0.0360	non-leukemia cancer types
<i>DDO</i>	high	1.43	0.3628	0.0281	cited in AML
<i>VWA5A</i>	high	0.80	0.3563	0.0360	non-leukemia cancer types
<i>DPYD</i>	high	1.57	0.3186	0.0111	cited in AML
<i>CMTR2</i>	high	1.43	0.3291	0.0499	cited in PubMed
<i>ZNF732</i>	high	1.11	0.2918	0.0005	never cited

<b>Gene</b>	<b>status</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
<i>OR13C8</i>	high	1.38	-0.5242	0.0153	non-leukemia cancer types
<i>GORAB</i>	high	0.64	0.3577	0.0055	non-leukemia cancer types
<i>AS3MT</i>	low	1.38	0.3864	0.0436	cited in AML
<i>LRIF1</i>	high	0.70	0.3312	0.0052	non-leukemia cancer types
<i>ITGA1</i>	high	1.38	0.3197	0.0099	non-AML leukemia types
<i>PRTG</i>	high	0.64	-0.1882	0.0066	non-leukemia cancer types
<i>FLT1</i>	high	0.90	0.3799	0.0307	cited in AML
<i>PDE10A</i>	high	0.90	-1.0800	0.0090	non-AML leukemia types
<i>ABCB1</i>	high	1.38	0.3015	0.0445	cited in AML
<i>ANKRD20A4</i>	high	1.11	0.0047	0.0349	never cited
<i>SAMD9L</i>	high	0.70	0.3029	0.0079	cited in AML
<i>MINAR1</i>	high	1.38	0.3720	0.0006	non-leukemia cancer types
<i>ARHGAP44</i>	high	1.29	0.4251	0.0256	non-leukemia cancer types
<i>PARP9</i>	high	0.80	0.3157	0.0250	cited in AML
<i>EPB41L1</i>	high	0.90	0.2740	0.0381	cited in AML
<i>KIAA1217</i>	high	0.90	0.2268	0.0121	non-leukemia cancer types
<i>BHMT2</i>	high	1.25	-0.5441	0.0044	non-leukemia cancer types
<i>FAM234B</i>	high	0.64	0.3470	0.0360	cited in PubMed

**Annex VII List of the gene sets shared by the majority of the intermediate-poor AML-M2 that are differentially enriched in comparison with the intermediate-favorable subgroups.** For each gene set is represented the number and the percentage of intermediate-poor subgroups that have the gene sets enriched (n and percentage), a representative *p-value* and the status (upregulated (up) or downregulated (down)).

Set	n	Percentage	<i>p-value</i>	status
GO:0045333 cellular respiration	54	95	0.002	up
GO:0022904 respiratory electron transport chain	54	95	0.003	up
GO:0015985 energy coupled proton transport, down electrochemical gradient	54	95	0.003	up
GO:0015986 ATP synthesis coupled proton transport	54	95	0.003	up
GO:0007005 mitochondrion organization	54	95	0.003	up
GO:0022613 ribonucleoprotein complex biogenesis	54	95	0.003	up
GO:0009145 purine nucleoside triphosphate biosynthetic process	54	95	0.003	up
GO:0009206 purine ribonucleoside triphosphate biosynthetic process	54	95	0.004	up
GO:0009201 ribonucleoside triphosphate biosynthetic process	54	95	0.004	up
GO:0006119 oxidative phosphorylation	54	95	0.004	up
GO:0070469 respirasome	54	95	0.004	up
GO:0006754 ATP biosynthetic process	54	95	0.005	up
GO:0009144 purine nucleoside triphosphate metabolic process	54	95	0.005	up
GO:0005746 mitochondrial respirasome	54	95	0.006	up
GO:0009205 purine ribonucleoside triphosphate metabolic process	54	95	0.006	up
GO:0042254 ribosome biogenesis	54	95	0.007	up
GO:0009199 ribonucleoside triphosphate metabolic process	54	95	0.007	up
GO:0090150 establishment of protein localization to membrane	54	95	0.010	up
GO:0009142 nucleoside triphosphate biosynthetic process	54	95	0.010	up
GO:0033108 mitochondrial respiratory chain complex assembly	54	95	0.010	up
GO:0007006 mitochondrial membrane organization	54	95	0.014	up
GO:0006364 rRNA processing	54	95	0.014	up
GO:0042773 ATP synthesis coupled electron transport	54	95	0.015	up
GO:0042775 mitochondrial ATP synthesis coupled electron transport	54	95	0.016	up
GO:0009141 nucleoside triphosphate metabolic process	54	95	0.016	up
GO:0016072 rRNA metabolic process	54	95	0.020	up
GO:0022900 electron transport chain	54	95	0.022	up
GO:0006605 protein targeting	54	95	0.022	up
GO:0006839 mitochondrial transport	54	95	0.023	up
GO:0034470 ncRNA processing	54	95	0.024	up
GO:1902600 proton transmembrane transport	54	95	0.024	up

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>status</b>
GO:0006120 mitochondrial electron transport, NADH to ubiquinone	54	95	0.026	up
GO:0010257 NADH dehydrogenase complex assembly	54	95	0.026	up
GO:0032981 mitochondrial respiratory chain complex I assembly	54	95	0.026	up
GO:0015980 energy derivation by oxidation of organic compounds	54	95	0.029	up
GO:0006402 mRNA catabolic process	54	95	0.031	up
GO:0046034 ATP metabolic process	54	95	0.041	up
GO:0006457 protein folding	54	95	0.042	up
GO:0006401 RNA catabolic process	54	95	0.046	up
GO:0070126 mitochondrial translational termination	53	93	0.027	up
GO:0006415 translational termination	53	93	0.028	up
GO:0140053 mitochondrial gene expression	53	93	0.028	up
GO:0070125 mitochondrial translational elongation	53	93	0.028	up
GO:0032543 mitochondrial translation	53	93	0.040	up
GO:0006403 RNA localization	53	93	0.044	up
GO:0042273 ribosomal large subunit biogenesis	53	93	0.044	up
GO:0022618 ribonucleoprotein complex assembly	53	93	0.045	up
GO:0071826 ribonucleoprotein complex subunit organization	53	93	0.045	up
GO:0008380 RNA splicing	53	93	0.049	up
GO:0050657 nucleic acid transport	52	91	0.028	up
GO:0050658 RNA transport	52	91	0.028	up
GO:0051236 establishment of RNA localization	52	91	0.028	up
GO:0046902 regulation of mitochondrial membrane permeability	52	91	0.031	up
GO:0006612 protein targeting to membrane	52	91	0.038	up
GO:0045727 positive regulation of translation	52	91	0.040	up
GO:0019080 viral gene expression	52	91	0.041	up
GO:0051028 mRNA transport	52	91	0.046	up
GO:0006353 DNA-templated transcription, termination	52	91	0.049	up
GO:0002181 cytoplasmic translation	52	91	0.049	up
GO:0006767 water-soluble vitamin metabolic process	52	91	0.049	up
GO:0035023 regulation of Rho protein signal transduction	54	95	0.006	down
GO:0007266 Rho protein signal transduction	54	95	0.017	down
GO:1902904 negative regulation of supramolecular fiber organization	54	95	0.026	down
GO:0007626 locomotory behavior	54	95	0.027	down
GO:0002040 sprouting angiogenesis	54	95	0.027	down
GO:0010766 negative regulation of sodium ion transport	54	95	0.037	down
GO:0008344 adult locomotory behavior	54	95	0.038	down
GO:0042472 inner ear morphogenesis	54	95	0.041	down
GO:0030534 adult behavior	54	95	0.042	down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>status</b>
GO:0051056 regulation of small GTPase mediated signal transduction	54	95	0.043	down
GO:0072089 stem cell proliferation	54	95	0.047	down
GO:0006813 potassium ion transport	54	95	0.048	down
GO:0071805 potassium ion transmembrane transport	54	95	0.049	down
GO:0044331 cell-cell adhesion mediated by cadherin	53	93	0.029	down
GO:0051494 negative regulation of cytoskeleton organization	53	93	0.030	down
GO:0048839 inner ear development	53	93	0.030	down
GO:0046578 regulation of Ras protein signal transduction	53	93	0.030	down
GO:0060841 venous blood vessel development	53	93	0.036	down
GO:1904738 vascular associated smooth muscle cell migration	53	93	0.036	down
GO:1904752 regulation of vascular associated smooth muscle cell migration	53	93	0.036	down
GO:0030318 melanocyte differentiation	53	93	0.042	down
GO:0055078 sodium ion homeostasis	53	93	0.042	down
GO:2001028 positive regulation of endothelial cell chemotaxis	53	93	0.045	down
GO:0090596 sensory organ morphogenesis	53	93	0.046	down
GO:0003071 renal system process involved in regulation of systemic arterial blood pressure	53	93	0.047	down
GO:0003401 axis elongation	53	93	0.049	down
GO:0001508 action potential	53	93	0.049	down
GO:0006874 cellular calcium ion homeostasis	52	91	0.014	down
GO:0055074 calcium ion homeostasis	52	91	0.021	down
GO:0007204 positive regulation of cytosolic calcium ion concentration	52	91	0.034	down
GO:0034329 cell junction assembly	52	91	0.035	down
GO:0021954 central nervous system neuron development	52	91	0.036	down
GO:0021953 central nervous system neuron differentiation	52	91	0.039	down
GO:0001977 renal system process involved in regulation of blood volume	52	91	0.042	down
GO:0060560 developmental growth involved in morphogenesis	52	91	0.042	down
GO:0035627 ceramide transport	52	91	0.045	down
GO:0051952 regulation of amine transport	52	91	0.045	down
GO:0042471 ear morphogenesis	52	91	0.045	down
GO:0098802 plasma membrane signaling receptor complex	52	91	0.048	down
GO:0048854 brain morphogenesis	52	91	0.049	down

**Annex VIII The remaining 676 identified CpG sites whose DNA methylation were able to predict survival in patients with AML-M2 categorized in the intermediate prognostic risk group.**

CpG sites	<i>p-value</i>	Optimal cutpoint	Group 1 (n)	Group 2 (n)	Age test ( <i>p-value</i> )	HR	Gene
cg18867923	0.00009	0.3572	9	10	0.90244	22.10625	<i>TBX1</i>
cg22595391	0.00015	0.1701	9	9	0.37673	21.92512	<i>CYBC1</i>
cg07691306	0.00026	0.0815	10	8	0.16801	20.27607	<i>ARID3A</i>
cg25832925	0.0002	0.3477	10	9	0.96741	19.88858	<i>ARX</i>
cg08076437	0.00051	0.3483	11	8	0.90134	18.24669	<i>IRX3</i>
cg00741986	0.00051	0.4486	11	8	0.90134	18.24669	<i>TNIP2</i>
cg00306721	0.00104	0.0785	9	8	1	15.96265	<i>BSCL2</i>
cg01496199	0.0009	0.6579	10	7	0.80702	15.12847	<i>IFNL2</i>
cg07820189	0.00024	0.505	8	11	0.82921	12.34639	<i>LAMC2</i>
cg07991621	0.00016	0.0968	8	11	0.59114	11.90304	<i>SH3BP2</i>
cg06588645	0.00016	0.6311	8	11	0.59114	11.90304	<i>TNS3</i>
cg22738642	0.00016	0.7844	8	11	0.59114	11.90304	<i>PRICKLE1</i>
cg27123691	0.00016	0.414	8	11	0.59114	11.90304	<i>CSPG4</i>
cg17858880	0.00016	0.6794	8	11	0.59114	11.90304	<i>TNS3</i>
cg11223365	0.00016	0.6106	8	11	0.59114	11.90304	<i>WNT9A</i>
cg10734665	0.00016	0.516	8	11	0.59114	11.90304	<i>ATP10A</i>
cg25151498	0.00016	0.0802	8	11	0.59114	11.90304	<i>ETV5</i>
cg10542562	0.00016	0.6523	8	11	0.59114	11.90304	<i>FLI1</i>
cg10745272	0.00016	0.3636	8	11	0.59114	11.90304	<i>SH3BP2</i>
cg15630950	0.00016	0.8979	8	11	0.59114	11.90304	<i>HLA-DOA</i>
cg27635394	0.0002	0.1016	7	11	0.61822	11.71134	<i>HIST1H2BB</i>
cg24943609	0.00025	0.2604	11	8	0.38552	11.5108	<i>ZNF652</i>
cg02639366	0.00041	0.698	8	11	0.91416	10.93459	<i>AGO4</i>
cg18252102	0.00041	0.9014	8	11	0.91416	10.93459	<i>FARP1</i>
cg02198513	0.00053	0.322	11	8	0.3419	10.69393	<i>TMEM156</i>
cg04359840	0.00053	0.4261	11	8	0.3419	10.69393	<i>XYLT1</i>
cg13225413	0.00045	0.1458	10	9	1	10.66517	<i>ZNF232</i>
cg08668790	0.00045	0.5831	10	9	1	10.66517	<i>ZNF154</i>
cg12407791	0.00045	0.4975	10	9	1	10.66517	<i>UNC13D</i>
cg20392842	0.00062	0.1747	9	10	0.43754	10.46969	<i>HLA-DMB</i>
cg08515841	0.00062	0.0649	9	10	0.43754	10.46969	<i>KLF7</i>
cg21429394	0.00062	0.5165	9	10	0.43754	10.46969	<i>SLC17A8</i>
cg16236263	0.00062	0.088	9	10	0.43754	10.46969	<i>HLA-DMB</i>
cg16430854	0.00062	0.261	9	10	0.43754	10.46969	<i>SDK2</i>
cg02627403	0.00062	0.5024	9	10	0.43754	10.46969	<i>UNC13D</i>
cg01951879	0.00062	0.3053	9	10	0.43754	10.46969	<i>IRX3</i>
cg10792987	0.00062	0.7098	9	10	0.43754	10.46969	<i>ELL</i>
cg13320436	0.00062	0.7586	9	10	0.43754	10.46969	<i>MRPL15</i>
cg03015498	0.0007	0.7299	11	8	0.59114	10.28675	<i>SFMBT2</i>
cg01467100	0.00061	0.6937	8	11	0.94843	10.2529	<i>PFKFB3</i>

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>Gene</b>
cg03187301	0.00078	0.2279	9	10	0.32676	10.22436	<i>MCRS1</i>
cg22074576	0.0008	0.5082	10	9	0.86302	10.09594	<i>OSBPL5</i>
cg15594585	0.00075	0.5642	8	11	0.77238	9.87486	<i>ZNF678</i>
cg10002133	0.00106	0.1168	11	8	0.83631	9.82462	<i>NTRK3</i>
cg07010633	0.00106	0.4312	11	8	0.83631	9.82462	<i>UNC13D</i>
cg08347500	0.00106	0.0237	11	8	0.83631	9.82462	<i>IRX3</i>
cg14905657	0.00106	0.686	11	8	0.83631	9.82462	<i>LMO3</i>
cg21747330	0.00122	0.5347	11	8	0.67944	9.67995	<i>GRIA3</i>
cg16207110	0.00091	0.8308	8	11	0.59114	9.67781	<i>TRNA</i>
cg08369368	0.00091	0.8241	8	11	0.59114	9.67781	<i>NSD1</i>
cg06400704	0.00155	0.3498	11	8	0.93638	9.45053	<i>FMN2</i>
cg24924577	0.00077	0.2737	11	8	0.30158	9.37756	<i>SEMA4B</i>
cg05818394	0.00153	0.1791	7	10	0.73024	9.15505	<i>HMGB1</i>
cg24387864	0.00096	0.2027	11	8	0.53537	9.12368	<i>CCND1</i>
cg18176723	0.00145	0.3495	10	8	0.72201	8.99401	<i>PPCDC</i>
cg03599590	0.00189	0.1492	10	8	1	8.73616	<i>SLC35A5</i>
cg07967918	0.00158	0.2937	11	8	0.48238	8.17529	<i>SOBP</i>
cg06975048	0.00158	0.1203	11	8	0.48238	8.17529	<i>KCNAB3</i>
cg06427054	0.00248	0.0924	11	8	0.56292	7.70834	<i>GSX2</i>
cg05649922	0.0006	0.3783	10	9	0.20527	7.70506	<i>ARID1A</i>
cg12573289	0.0006	0.4822	10	9	0.20527	7.70506	<i>CCM2</i>
cg17103217	0.0006	0.5589	10	9	0.20527	7.70506	<i>B3GALT4</i>
cg09584521	0.0006	0.0667	10	9	0.20527	7.70506	<i>CD58</i>
cg13707025	0.00306	0.5205	11	8	1	7.50442	<i>KCNK10</i>
cg21518432	0.00334	0.1394	11	8	0.97877	7.42078	<i>SHC4</i>
cg12258811	0.00334	0.6557	11	8	0.97877	7.42078	<i>PER3</i>
cg23681664	0.00099	0.3434	9	10	0.71306	7.25055	<i>CPNE9</i>
cg22371591	0.00162	0.445	8	11	0.43238	7.15824	<i>MSX1</i>
cg27175287	0.00162	0.6519	8	11	0.43238	7.15824	<i>FOXE3</i>
cg03247049	0.0012	0.3948	10	9	0.59529	7.11753	<i>AXL</i>
cg19037007	0.0012	0.6648	10	9	0.59529	7.11753	<i>SLC52A3</i>
cg12571423	0.0014	0.2295	11	8	0.12628	7.10914	<i>CCNA1</i>
cg20589883	0.0014	0.4865	11	8	0.12628	7.10914	<i>ELOVL6</i>
cg21618521	0.0014	0.6277	11	8	0.12628	7.10914	<i>B3GALT4</i>
cg21611682	0.0014	0.7785	11	8	0.12628	7.10914	<i>LRP5</i>
cg04313565	0.0014	0.4158	11	8	0.12628	7.10914	<i>XYLT1</i>
cg16300030	0.0014	0.197	11	8	0.12628	7.10914	<i>HLA-DMB</i>
cg16794579	0.0014	0.4959	11	8	0.12628	7.10914	<i>XYLT1</i>
cg17901382	0.0014	0.6384	11	8	0.12628	7.10914	<i>TSEN54</i>
cg12135856	0.0013	0.4042	9	10	1	6.99765	<i>DSCAM</i>
cg07071609	0.00184	0.042	9	10	0.98166	6.78331	<i>PLIN5</i>
cg17239923	0.00259	0.2728	11	8	0.43238	6.56017	<i>FLII</i>
cg07834682	0.00259	0.2256	11	8	0.43238	6.56017	<i>SIX2</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg04779860	0.00654	0.1837	11	8	0.56292	6.53922	<i>EBF3</i>
cg27346806	0.00238	0.3166	9	10	0.87217	6.53506	<i>VENTX</i>
cg23357130	0.00238	0.7852	9	10	0.87217	6.53506	<i>OSBPL5</i>
cg24640390	0.00272	0.4716	9	10	0.65309	6.39782	<i>NEUROG3</i>
cg09005679	0.00311	0.3316	9	10	0.48729	6.29664	<i>EDN3</i>
cg08883485	0.00311	0.6893	9	10	0.48729	6.29664	<i>NAV1</i>
cg24217984	0.00097	0.3789	8	11	0.06904	6.27113	<i>RGMA</i>
cg08001559	0.00147	0.3052	10	9	0.06595	6.23938	<i>GNG2</i>
cg18342462	0.0035	0.7651	9	10	0.73024	6.20998	<i>C11orf88</i>
cg03655371	0.0035	0.1735	9	10	0.73024	6.20998	<i>TIFAB</i>
cg05836145	0.00581	0.6094	8	11	0.94843	5.9466	<i>SP8</i>
cg07681748	0.00443	0.7032	9	10	0.65309	5.89502	<i>CD200</i>
cg04365202	0.00442	0.5044	8	11	0.43238	5.84824	<i>LHX9</i>
cg05257898	0.01493	0.6369	11	7	0.93075	5.82792	<i>NKAP</i>
cg26487031	0.0054	0.3074	7	11	0.71399	5.78903	<i>MPZL2</i>
cg00779638	0.00161	0.8381	9	10	0.20527	5.7699	<i>AGTPBP1</i>
cg17156534	0.00631	0.6103	10	9	0.65739	5.76096	<i>TOP1</i>
cg14422240	0.00346	0.7104	10	9	0.26992	5.68723	<i>CMTR1</i>
cg02876258	0.00795	0.2579	11	8	0.86872	5.58201	<i>FGF5</i>
cg07928083	0.00545	0.3915	11	8	0.96704	5.52843	<i>FOXB1</i>
cg09757109	0.0025	0.7213	9	10	0.34732	5.44607	<i>DIXDC1</i>
cg25042430	0.00485	0.1557	10	9	0.43754	5.40502	<i>KIAA1217</i>
cg21068610	0.00295	0.1412	9	10	0.25258	5.33656	<i>CHD3</i>
cg14371590	0.00583	0.3628	10	9	0.71306	5.25486	<i>SLC26A10</i>
cg07220903	0.00385	0.3457	10	9	0.13057	5.2257	<i>CCDC12</i>
cg24994127	0.00689	0.0903	11	8	0.17268	5.1727	<i>RALGAPA2</i>
cg07941108	0.00689	0.4091	11	8	0.17268	5.1727	<i>PSMC1</i>
cg24250393	0.00225	0.373	8	11	0.2002	5.14653	<i>PRKCB</i>
cg04918402	0.02242	0.0609	11	7	0.85612	5.13963	<i>LIMD2</i>
cg27257822	0.00822	0.7718	9	10	0.90244	5.12833	<i>EPHB3</i>
cg20276630	0.00467	0.5384	8	11	0.9828	5.08608	<i>PDLIM1</i>
cg04420723	0.00461	0.2922	8	11	0.80419	5.05131	<i>ZNF184</i>
cg05551825	0.00275	0.2138	8	11	0.13685	5.02535	<i>RNF216</i>
cg20421446	0.01447	0.7554	10	8	0.76977	4.96965	<i>NRN1</i>
cg18073471	0.00561	0.5211	10	9	0.23603	4.94251	<i>PRDM8</i>
cg13276502	0.00561	0.6534	10	9	0.23603	4.94251	<i>SOX4</i>
cg23045908	0.00373	0.3492	9	10	0.06595	4.93797	<i>PDE4B</i>
cg08667275	0.00897	0.3568	10	9	0.98034	4.93107	<i>RNF26</i>
cg05327596	0.00303	0.6993	8	11	0.38552	4.9275	<i>COL11A2</i>
cg14762436	0.00929	0.487	11	8	0.30158	4.92254	<i>OSBPL3</i>
cg05071046	0.00929	0.2484	11	8	0.30158	4.92254	<i>IRX3</i>
cg15683295	0.00586	0.2588	8	11	0.93413	4.87704	<i>HOTTIP</i>
cg18653350	0.01278	0.1233	11	8	0.47252	4.85896	<i>SACS</i>

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>Gene</b>
cg19839325	0.00332	0.5809	8	11	0.11636	4.79908	<i>KLHL26</i>
cg27396824	0.00809	0.4542	7	10	0.35328	4.78441	<i>ZAN</i>
cg22996489	0.00702	0.5376	8	11	0.91416	4.77457	<i>OXGR1</i>
cg06638433	0.00683	0.6003	8	11	0.64944	4.76916	<i>IGF2BP1</i>
cg26111030	0.01176	0.0963	10	9	0.90192	4.71842	<i>ERBB2</i>
cg22902505	0.00806	0.5824	10	9	0.63958	4.71808	<i>PRDM8</i>
cg14892768	0.00759	0.6387	9	10	0.98166	4.70051	<i>AXL</i>
cg08586366	0.00759	0.5095	9	10	0.98166	4.70051	<i>FLI1</i>
cg03465652	0.0078	0.521	8	11	0.48238	4.68015	<i>GLI2</i>
cg10334354	0.00637	0.3956	8	11	0.2151	4.67935	<i>EPHA5</i>
cg17691657	0.01272	0.1361	11	8	1	4.66183	<i>SLC4A4</i>
cg07275218	0.0133	0.558	9	9	1	4.6518	<i>BRD2</i>
cg19471574	0.00833	0.1943	10	9	0.59529	4.64428	<i>TMEM161B</i>
cg13409248	0.00878	0.3804	8	11	0.7464	4.60468	<i>ENTPD3</i>
cg19175386	0.00878	0.2224	8	11	0.7464	4.60468	<i>TBX3</i>
cg27077033	0.00878	0.2871	8	11	0.7464	4.60468	<i>CEP170B</i>
cg12220058	0.00438	0.9443	8	11	0.24726	4.59604	<i>NMB</i>
cg21760990	0.00908	0.7335	8	11	0.61999	4.575	<i>TBC1D32</i>
cg25313172	0.01378	0.2479	10	9	0.87017	4.56545	<i>KRT7</i>
cg02390329	0.01378	0.5304	10	9	0.87017	4.56545	<i>ZIC4</i>
cg26955132	0.00845	0.6996	10	9	0.09388	4.44137	<i>FAM234B</i>
cg18305855	0.00845	0.7495	10	9	0.09388	4.44137	<i>BMT2</i>
cg05395947	0.01117	0.6638	8	11	0.76266	4.4325	<i>SASH1</i>
cg20645065	0.00582	0.428	8	11	0.3419	4.399	<i>ALPL</i>
cg20910202	0.00582	0.5359	8	11	0.3419	4.399	<i>KBTBD11</i>
cg09436375	0.00582	0.6828	8	11	0.3419	4.399	<i>GNMT</i>
cg01606885	0.01286	0.7794	10	9	0.60475	4.36926	<i>HSPB3</i>
cg02457623	0.0202	0.0254	11	7	0.44094	4.3608	<i>ATP2B4</i>
cg11175192	0.01265	0.4237	8	11	0.66616	4.34588	<i>WNT6</i>
cg18495563	0.01399	0.1158	8	10	0.96331	4.32258	<i>TCPI1L1</i>
cg05923595	0.02031	0.2546	11	8	1	4.31315	<i>AZIN2</i>
cg01597891	0.00813	0.2382	7	11	0.18865	4.27102	<i>INA</i>
cg14640670	0.0158	0.4511	11	8	0.77238	4.23702	<i>PURA</i>
cg07557423	0.0158	0.3851	11	8	0.77238	4.23702	<i>ATP8A1</i>
cg17345569	0.0201	0.3752	11	8	0.90134	4.22375	<i>GNMT</i>
cg27439456	0.02231	0.4953	10	9	0.55428	4.17672	<i>OSCP1</i>
cg10592171	0.01003	0.4634	8	11	0.40855	4.05428	<i>DLX4</i>
cg06248480	0.02617	0.1339	10	9	0.28806	4.04427	<i>LAMB1</i>
cg19211800	0.01941	0.3197	8	10	0.62471	3.93445	<i>MARCKS</i>
cg15246619	0.01299	0.6012	8	11	0.83631	3.90174	<i>FGF17</i>
cg09681675	0.03308	0.631	11	8	0.28265	3.77546	<i>ZNF597</i>
cg04995300	0.01923	0.3852	9	10	0.77486	3.77501	<i>KBTBD8</i>
cg24378136	0.03455	0.5045	11	8	0.86872	3.75007	<i>RNF39</i>

CpG sites	<i>p</i> -value	Optimal cutpoint	Group 1 (n)	Group 2 (n)	Age test ( <i>p</i> -value)	HR	Gene
cg03469082	0.03632	0.4306	11	8	1	3.71243	<i>GABRG1</i>
cg23196346	0.04141	0.2472	9	10	0.46204	3.2734	<i>KIAA1217</i>
cg23119487	0.03609	0.6869	8	11	0.43238	3.24685	<i>TMED3</i>
cg05977462	0.03569	0.8558	8	11	0.50851	3.13776	<i>CUX2</i>
cg26508928	0.04323	0.6204	11	8	0.28265	0.33258	<i>ZNF519</i>
cg01408845	0.03751	0.6919	9	10	0.96741	0.30411	<i>SARM1</i>
cg19628739	0.03751	0.6581	9	10	0.96741	0.30411	<i>PNPLA3</i>
cg16151494	0.03751	0.4326	9	10	0.96741	0.30411	<i>GPBP1</i>
cg01931994	0.02683	0.3641	11	8	0.18606	0.3027	<i>BRINP2</i>
cg00639635	0.03221	0.6437	10	9	0.30701	0.29871	<i>FUCA2</i>
cg06578276	0.03217	0.1106	11	8	0.61999	0.29494	<i>BAIAP2</i>
cg09083945	0.03217	0.0869	11	8	0.61999	0.29494	<i>BAIAP2</i>
cg08147563	0.03051	0.7359	9	10	0.36869	0.29322	<i>ROBO1</i>
cg23973972	0.03051	0.5789	9	10	0.96741	0.29322	<i>CNDP2</i>
cg00059161	0.03051	0.6613	9	10	0.96741	0.29322	<i>SLITRK3</i>
cg22333471	0.03105	0.5636	9	10	0.36869	0.28824	<i>SDHAF1</i>
cg01116873	0.02234	0.5139	11	8	0.56292	0.28777	<i>RN7SK</i>
cg22366943	0.03141	0.7671	8	11	0.90134	0.28076	<i>NKAIN2</i>
cg00036408	0.03689	0.0682	10	9	0.56729	0.2792	<i>TMEM105</i>
cg19404979	0.01592	0.4822	10	9	0.09388	0.26382	<i>ELSPBP1</i>
cg14150727	0.0163	0.7347	10	9	0.48729	0.26213	<i>LGR6</i>
cg18766685	0.019	0.7814	9	10	0.41381	0.26035	<i>SHH</i>
cg25050975	0.02109	0.8281	8	11	0.56292	0.25638	<i>NXN</i>
cg08988179	0.01223	0.1485	10	9	0.08613	0.25527	<i>CIQL1</i>
cg24336447	0.01151	0.4745	11	8	0.64944	0.25182	<i>GALP</i>
cg06322601	0.01451	0.0141	11	8	0.11636	0.25175	<i>RASA4</i>
cg02952295	0.02058	0.5722	11	8	0.59114	0.25054	<i>TRPM8</i>
cg17398252	0.0242	0.0418	8	10	0.35035	0.24991	<i>BVES</i>
cg05184519	0.00979	0.476	11	8	0.2002	0.24552	<i>NTM</i>
cg02198701	0.01601	0.1473	8	11	0.3633	0.24425	<i>IRX6</i>
cg16599143	0.02506	0.7212	8	11	1	0.24367	<i>FMO3</i>
cg11633310	0.01941	0.7054	8	11	0.74096	0.2436	<i>MS4A10</i>
cg12650635	0.01762	0.7509	8	11	0.48238	0.24001	<i>AQP2</i>
cg13691209	0.00799	0.5527	11	8	0.43238	0.23774	<i>PLEKHG4B</i>
cg08432013	0.01643	0.4912	9	10	0.87017	0.23716	<i>DLG2</i>
cg13223682	0.01643	0.2362	9	10	0.87017	0.23716	<i>SP3</i>
cg26578156	0.01643	0.5904	9	10	0.87017	0.23716	<i>ZNF423</i>
cg13052638	0.0158	0.6639	8	11	0.77238	0.23602	<i>RASSF5</i>
cg02385848	0.0158	0.7978	8	11	0.61999	0.23602	<i>LINC00473</i>
cg06333800	0.0158	0.5656	8	11	0.77238	0.23602	<i>PRKAG2</i>
cg06499030	0.0158	0.5517	8	11	0.61999	0.23602	<i>HLA-DQB2</i>
cg11019923	0.00782	0.494	10	9	0.16475	0.22889	<i>DNAJA4</i>
cg25744552	0.0121	0.1818	10	9	0.90244	0.2267	<i>CD2</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg15396204	0.0121	0.5604	10	9	0.90244	0.2267	<i>PRMT6</i>
cg22830507	0.01557	0.5306	8	11	1	0.22175	<i>TBX3</i>
cg18998321	0.01557	0.5392	8	11	0.70997	0.22175	<i>LAMA1</i>
cg13968218	0.01794	0.1932	9	10	0.53994	0.22009	<i>ADGRD2</i>
cg27297993	0.00944	0.7711	10	8	0.75557	0.21972	<i>GABBR1</i>
cg23575349	0.00542	0.7491	11	8	0.23078	0.21893	<i>GRM5</i>
cg06001524	0.01163	0.6955	11	8	0.96704	0.218	<i>STX8</i>
cg22220986	0.00955	0.7631	10	9	0.83812	0.21695	<i>TTC29</i>
cg22142922	0.0152	0.4695	9	9	0.92956	0.21111	<i>ANO1</i>
cg23057870	0.0057	0.2006	11	8	0.77238	0.20398	<i>HEY1</i>
cg05543593	0.00561	0.6922	9	10	0.23603	0.20233	<i>APOB</i>
cg25962699	0.00561	0.3697	9	10	0.23603	0.20233	<i>SLC7A14</i>
cg08166767	0.00561	0.692	9	10	0.23603	0.20233	<i>LCE2A</i>
cg13441112	0.00561	0.5996	9	10	0.23603	0.20233	<i>CFHR4</i>
cg01253818	0.01078	0.3371	8	11	0.93413	0.20068	<i>PPP2R2C</i>
cg24296920	0.01604	0.7742	10	7	1	0.20027	<i>ARMS2</i>
cg22234930	0.01294	0.367	9	10	0.59529	0.19871	<i>PKM</i>
cg00736104	0.01294	0.6099	9	10	0.59529	0.19871	<i>SUDS3</i>
cg07202214	0.01294	0.1484	9	10	0.59529	0.19871	<i>LRRC32</i>
cg13026772	0.00478	0.8474	9	10	0.32676	0.19808	<i>PKNOX2</i>
cg07302934	0.00544	0.6208	11	8	0.17268	0.19501	<i>GLIS2</i>
cg21756194	0.00822	0.0977	10	9	0.90244	0.195	<i>CALCR</i>
cg27590787	0.00872	0.4601	8	11	0.30158	0.19437	<i>PNCK</i>
cg02999224	0.01	0.591	9	10	0.48729	0.19084	<i>SLC7A7</i>
cg10558233	0.01	0.5328	9	10	0.48729	0.19084	<i>MIR378D2</i>
cg13541713	0.01	0.6256	9	10	0.48729	0.19084	<i>SYNPO2</i>
cg02147126	0.01	0.2621	9	10	0.48729	0.19084	<i>AZU1</i>
cg05641048	0.01048	0.5299	11	8	0.91527	0.18937	<i>GCNT3</i>
cg06427176	0.00762	0.7376	8	10	0.30638	0.18913	<i>ADAMTS2</i>
cg15843496	0.00299	0.4757	11	8	0.56292	0.18621	<i>OR11H12</i>
cg21122370	0.00656	0.2007	8	11	0.74096	0.18618	<i>SLIT3</i>
cg03495053	0.00969	0.771	10	8	0.65652	0.18605	<i>THBS2</i>
cg12910797	0.00826	0.4464	10	9	0.80633	0.18581	<i>HOXB3</i>
cg22053945	0.00826	0.6732	10	9	0.80633	0.18581	<i>HOXB3</i>
cg26342141	0.00796	0.745	8	9	0.14867	0.18566	<i>MIR2113</i>
cg19052164	0.00624	0.6086	8	11	0.3419	0.18437	<i>PLEKHG4B</i>
cg26256521	0.00812	0.2985	10	8	0.89386	0.18392	<i>MIR4710</i>
cg05905844	0.0025	0.3472	10	9	0.34732	0.18362	<i>CHRM2</i>
cg00306893	0.00763	0.7616	11	7	0.68329	0.18322	<i>MECOM</i>
cg08548882	0.00716	0.7074	10	9	0.96741	0.18197	<i>PLEKHG1</i>
cg23908019	0.00716	0.7519	10	9	0.96741	0.18197	<i>OCA2</i>
cg13139361	0.00658	0.5185	11	8	0.67042	0.18136	<i>C1D</i>
cg26492744	0.00545	0.4268	8	11	0.23078	0.18088	<i>EFNB1</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg14408356	0.00906	0.7941	11	7	0.92776	0.17849	<i>DTX1</i>
cg22152605	0.00621	0.5619	10	9	0.68283	0.1782	<i>FPR1</i>
cg26681975	0.00697	0.441	11	8	0.93413	0.17649	<i>PNPLA1</i>
cg00683788	0.00524	0.173	10	9	0.51326	0.17387	<i>PDYN</i>
cg21943117	0.01382	0.453	8	11	0.77238	0.1734	<i>ACTRT2</i>
cg07147383	0.00709	0.5999	11	8	0.97877	0.17314	<i>FSCN2</i>
cg17819250	0.00709	0.255	11	8	0.97877	0.17314	<i>RN7SK</i>
cg12512337	0.00709	0.3881	11	8	0.97877	0.17314	<i>GSX1</i>
cg08577913	0.00471	0.1391	11	8	0.96704	0.1726	<i>TRIM21</i>
cg12630277	0.00453	0.3749	11	8	0.74096	0.17168	<i>GJD4</i>
cg26090020	0.00659	0.8482	7	11	0.29714	0.17103	<i>C17orf102</i>
cg20043105	0.00659	0.2109	7	11	0.29714	0.17103	<i>LINC01551</i>
cg14663914	0.00443	0.1832	10	9	0.65309	0.16963	<i>AZU1</i>
cg12249234	0.00443	0.1769	10	9	0.65309	0.16963	<i>KSR1</i>
cg15697257	0.00443	0.1521	10	9	0.65309	0.16963	<i>SYNPO</i>
cg05876069	0.00443	0.271	10	9	0.65309	0.16963	<i>SYNPO</i>
cg16643542	0.00443	0.3588	10	9	0.65309	0.16963	<i>AZU1</i>
cg15610437	0.00443	0.3109	10	9	0.65309	0.16963	<i>AZU1</i>
cg11119767	0.00443	0.1948	10	9	0.65309	0.16963	<i>MAP3K20</i>
cg00426709	0.0036	0.8176	8	11	0.13685	0.16926	<i>PRDM13</i>
cg24693341	0.00266	0.191	11	8	0.32133	0.16836	<i>PHOX2B</i>
cg16708938	0.00518	0.317	11	8	0.61999	0.16586	<i>SIK1</i>
cg01446692	0.00505	0.5139	11	8	0.96704	0.16516	<i>CER1</i>
cg17504164	0.00505	0.5482	11	8	0.96704	0.16516	<i>ADGRL4</i>
cg11560431	0.00505	0.4465	11	8	0.96704	0.16516	<i>SLC22A23</i>
cg20776947	0.00505	0.6251	11	8	0.96704	0.16516	<i>P2RX2</i>
cg24004178	0.00326	0.7799	8	11	0.50851	0.16482	<i>TRNA</i>
cg23122650	0.00343	0.4922	11	8	0.70997	0.16436	<i>COBL</i>
cg26765567	0.00388	0.3087	9	10	0.48729	0.16302	<i>FGF4</i>
cg07637239	0.00312	0.4801	11	8	0.83631	0.16256	<i>KCNK18</i>
cg09406107	0.0043	0.4985	11	8	0.77238	0.16171	<i>AGAP1</i>
cg14539466	0.0043	0.668	11	8	0.77238	0.16171	<i>MPDZ</i>
cg07336872	0.0043	0.2221	11	8	0.77238	0.16171	<i>ULBP3</i>
cg03145200	0.0043	0.3358	11	8	0.77238	0.16171	<i>IL21R</i>
cg14750475	0.0043	0.5349	11	8	0.77238	0.16171	<i>RRAS</i>
cg04940329	0.0043	0.256	11	8	0.77238	0.16171	<i>KRT23</i>
cg24720967	0.0043	0.7138	11	8	0.77238	0.16171	<i>RHOT1</i>
cg27260684	0.0043	0.6319	11	8	0.77238	0.16171	<i>KIAA0513</i>
cg04118102	0.0043	0.6823	11	8	0.77238	0.16171	<i>ADORA2B</i>
cg04571189	0.0043	0.4386	11	8	0.77238	0.16171	<i>ODC1</i>
cg18915156	0.0043	0.5177	11	8	0.77238	0.16171	<i>LRRC75A</i>
cg15690511	0.0043	0.4296	11	8	0.77238	0.16171	<i>OR4C12</i>
cg18236066	0.0043	0.2654	11	8	0.77238	0.16171	<i>RPH3A</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg12380764	0.0043	0.3743	11	8	0.77238	0.16171	<i>IL19</i>
cg23866916	0.0043	0.5156	11	8	0.77238	0.16171	<i>SBNO2</i>
cg27541604	0.0043	0.3416	11	8	0.77238	0.16171	<i>AIM2</i>
cg06244240	0.0043	0.2077	11	8	0.77238	0.16171	<i>METRNL</i>
cg21083556	0.0043	0.7029	11	8	0.77238	0.16171	<i>ADSSL1</i>
cg03625911	0.0043	0.3176	11	8	0.77238	0.16171	<i>CHI3L1</i>
cg12458039	0.0043	0.957	11	8	0.77238	0.16171	<i>FAM20C</i>
cg17085688	0.0043	0.2018	11	8	0.77238	0.16171	<i>GNGT1</i>
cg18022554	0.0043	0.702	11	8	0.77238	0.16171	<i>HCN4</i>
cg11145776	0.0043	0.4186	11	8	0.77238	0.16171	<i>SLC6A12</i>
cg11806633	0.0043	0.3528	11	8	0.77238	0.16171	<i>ARHGEF10L</i>
cg27119904	0.0043	0.174	11	8	0.77238	0.16171	<i>RASA3</i>
cg03774957	0.0043	0.4477	11	8	0.77238	0.16171	<i>PCDH1</i>
cg21856784	0.0043	0.2631	11	8	0.77238	0.16171	<i>TRIM15</i>
cg15978561	0.0043	0.107	11	8	0.77238	0.16171	<i>HDAC4</i>
cg23313963	0.0043	0.8215	11	8	0.77238	0.16171	<i>TNXB</i>
cg15102179	0.0043	0.3607	11	8	0.77238	0.16171	<i>NAP1L4</i>
cg00411072	0.0043	0.69	11	8	0.77238	0.16171	<i>HOXB3</i>
cg21551253	0.0043	0.5238	11	8	0.77238	0.16171	<i>ADGRD1</i>
cg03833794	0.0043	0.579	11	8	0.77238	0.16171	<i>SGSH</i>
cg16522250	0.0043	0.8636	11	8	0.77238	0.16171	<i>CNTN6</i>
cg12806681	0.0043	0.6871	11	8	0.77238	0.16171	<i>AHRR</i>
cg07127883	0.0043	0.7867	11	8	0.77238	0.16171	<i>SHQ1</i>
cg02226672	0.0043	0.5987	11	8	0.77238	0.16171	<i>SMPD3</i>
cg01058360	0.0043	0.4969	11	8	0.77238	0.16171	<i>PRKAG2</i>
cg24490227	0.0043	0.1747	11	8	0.77238	0.16171	<i>JAM3</i>
cg00114012	0.0043	0.6006	11	8	0.77238	0.16171	<i>SLC2A8</i>
cg00864684	0.0043	0.5517	11	8	0.77238	0.16171	<i>CHST15</i>
cg25011257	0.0043	0.4431	11	8	0.77238	0.16171	<i>TH</i>
cg00697095	0.0043	0.643	11	8	0.77238	0.16171	<i>GRB7</i>
cg17400947	0.0043	0.6015	11	8	0.77238	0.16171	<i>GALNT18</i>
cg23312375	0.0043	0.5877	11	8	0.77238	0.16171	<i>RASA3</i>
cg03991871	0.0043	0.5705	11	8	0.77238	0.16171	<i>AHRR</i>
cg08136806	0.0043	0.3945	11	8	0.77238	0.16171	<i>KRT6C</i>
cg08105471	0.0043	0.7274	11	8	0.77238	0.16171	<i>CNTN3</i>
cg04637264	0.0043	0.4636	11	8	0.77238	0.16171	<i>WISP3</i>
cg15646543	0.0043	0.3789	11	8	0.77238	0.16171	<i>PCDH1</i>
cg05178291	0.0043	0.1724	11	8	0.77238	0.16171	<i>SAA1</i>
cg00667298	0.0043	0.3057	11	8	0.77238	0.16171	<i>GABBR1</i>
cg15072976	0.0043	0.5928	11	8	0.77238	0.16171	<i>GAL3ST2</i>
cg00540067	0.0043	0.6539	11	8	0.77238	0.16171	<i>KLF15</i>
cg04843555	0.0043	0.9189	11	8	0.77238	0.16171	<i>RN7SK</i>

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>Gene</b>
cg07409200	0.0043	0.6076	11	8	0.77238	0.16171	<i>FAM216B</i>
cg22425467	0.0043	0.2421	11	8	0.77238	0.16171	<i>TRIM15</i>
cg08735550	0.0043	0.5194	11	8	0.77238	0.16171	<i>RGS11</i>
cg26857521	0.0043	0.6951	11	8	0.77238	0.16171	<i>PEX10</i>
cg16704797	0.0043	0.7324	11	8	0.77238	0.16171	<i>KLHL29</i>
cg08980014	0.0043	0.5822	11	8	0.77238	0.16171	<i>ARHGEF10</i>
cg00720829	0.0043	0.2891	11	8	0.77238	0.16171	<i>TRIM15</i>
cg22779896	0.0043	0.5677	11	8	0.77238	0.16171	<i>KIAA0232</i>
cg05701418	0.0043	0.1767	11	8	0.77238	0.16171	<i>TRIM15</i>
cg14039246	0.0043	0.3281	11	8	0.77238	0.16171	<i>ECHDC2</i>
cg01604946	0.0043	0.2778	11	8	0.77238	0.16171	<i>SH3TC2</i>
cg05870586	0.0043	0.2179	11	8	0.77238	0.16171	<i>HDAC4</i>
cg08190125	0.0043	0.4935	11	8	0.77238	0.16171	<i>IGHG1</i>
cg02570920	0.0043	0.6208	11	8	0.77238	0.16171	<i>RN7SK</i>
cg17023856	0.0043	0.4789	11	8	0.77238	0.16171	<i>PRKCZ</i>
cg11691844	0.0043	0.2473	11	8	0.77238	0.16171	<i>SYTL2</i>
cg03608093	0.0043	0.5248	11	8	0.77238	0.16171	<i>DEAF1</i>
cg16603012	0.0043	0.669	11	8	0.77238	0.16171	<i>APRT</i>
cg27152299	0.0043	0.3751	11	8	0.77238	0.16171	<i>KRTAP5-7</i>
cg08422803	0.0043	0.3369	11	8	0.77238	0.16171	<i>ITGB2</i>
cg25627098	0.0043	0.1326	11	8	0.77238	0.16171	<i>SPEM2</i>
cg23726831	0.0043	0.728	11	8	0.77238	0.16171	<i>SLC4A4</i>
cg10135708	0.0043	0.5836	11	8	0.77238	0.16171	<i>UCN2</i>
cg16928335	0.0043	0.5806	11	8	0.77238	0.16171	<i>SH2D1A</i>
cg08936645	0.0043	0.8783	11	8	0.77238	0.16171	<i>TBC1D1</i>
cg26120971	0.0043	0.7191	11	8	0.77238	0.16171	<i>MED30</i>
cg11800608	0.0043	0.4108	11	8	0.77238	0.16171	<i>C20orf85</i>
cg16596317	0.0043	0.4637	11	8	0.77238	0.16171	<i>BCL10</i>
cg13557773	0.0043	0.5165	11	8	0.77238	0.16171	<i>RASA3</i>
cg22733910	0.00294	0.1637	11	8	0.90134	0.16114	<i>PDE4B</i>
cg13525397	0.00294	0.5613	11	8	0.90134	0.16114	<i>HCG22</i>
cg19972648	0.00294	0.541	11	8	0.90134	0.16114	<i>KCNMA1</i>
cg03604424	0.00294	0.3182	11	8	0.90134	0.16114	<i>TRIO</i>
cg08549011	0.00294	0.6287	11	8	0.90134	0.16114	<i>FSTL4</i>
cg12690978	0.01301	0.6238	7	11	0.68329	0.16067	<i>MFAP5</i>
cg00017842	0.00329	0.4966	9	10	0.65309	0.15771	<i>EN1</i>
cg14660328	0.00329	0.7103	9	10	0.65309	0.15771	<i>TENM4</i>
cg03564793	0.00357	0.1031	11	8	0.50851	0.15767	<i>COL12A1</i>
cg22778788	0.00357	0.1354	11	8	0.50851	0.15767	<i>NKX2-3</i>
cg07798610	0.00331	0.4362	8	11	0.53537	0.15671	<i>PRSS21</i>
cg05303280	0.0037	0.7094	10	9	1	0.15481	<i>GLDN</i>
cg08814947	0.00213	0.6275	11	8	0.70997	0.15404	<i>KLK11</i>
cg03233426	0.00284	0.3673	11	8	0.13685	0.15286	<i>TMEM100</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg22129183	0.00246	0.204	9	10	0.53994	0.15245	<i>EVA1A</i>
cg10909152	0.00246	0.4217	9	10	0.53994	0.15245	<i>SIVA1</i>
cg23026228	0.00259	0.3201	8	11	0.43238	0.15244	<i>FNDC1</i>
cg04285362	0.00259	0.6152	8	11	0.43238	0.15244	<i>SNORA63</i>
cg02558625	0.00259	0.1805	8	11	0.43238	0.15244	<i>COL4A1</i>
cg21006686	0.00203	0.6581	10	9	0.32676	0.14940	<i>NOS1</i>
cg02855850	0.00227	0.5139	11	8	0.2002	0.14819	<i>IVL</i>
cg00870837	0.00227	0.7534	11	8	0.2002	0.14819	<i>CIQTNF8</i>
cg09418852	0.00227	0.6756	11	8	0.2002	0.14819	<i>SQOR</i>
cg13805537	0.00227	0.0406	11	8	0.2002	0.14819	<i>FAM102A</i>
cg23121615	0.00274	0.5468	10	9	0.96741	0.14761	<i>C8orf31</i>
cg19743254	0.00251	0.1595	11	8	0.53537	0.1475	<i>OPCML</i>
cg23304023	0.00205	0.2771	11	8	0.32133	0.14399	<i>TACC2</i>
cg24768113	0.0014	0.6313	10	9	0.83812	0.14338	<i>FIBIN</i>
cg23345292	0.0014	0.548	8	11	0.12628	0.14066	<i>LOXHD1</i>
cg06728135	0.0014	0.4206	8	11	0.12628	0.14066	<i>IRX2</i>
cg25242423	0.00536	0.6435	8	11	0.83631	0.13996	<i>RTBDN</i>
cg16451324	0.00138	0.4283	11	8	0.83631	0.13807	<i>PDE1A</i>
cg08661007	0.00138	0.2824	11	8	0.83631	0.13807	<i>ROBO1</i>
cg15534052	0.00254	0.8367	10	7	0.20428	0.13782	<i>MC2R</i>
cg17524162	0.00423	0.1312	8	11	0.50851	0.13533	<i>HLA-DQA2</i>
cg20016673	0.00538	0.0792	7	11	0.36462	0.13499	<i>NTNG1</i>
cg11747462	0.00113	0.7661	11	8	0.97877	0.13367	<i>OPCML</i>
cg25784280	0.00459	0.4383	8	11	0.77238	0.12958	<i>DTNA</i>
cg23670353	0.00459	0.3761	8	11	0.77238	0.12958	<i>FGGY</i>
cg13196652	0.00092	0.1079	10	9	0.26992	0.12805	<i>ADCY8</i>
cg18746826	0.00092	0.5495	10	9	0.26992	0.12805	<i>SCARA5</i>
cg10085326	0.00291	0.7595	8	11	0.70997	0.12781	<i>MMP13</i>
cg08036172	0.00332	0.3204	9	10	0.77486	0.12434	<i>MGLL</i>
cg07345515	0.00332	0.4744	9	10	0.77486	0.12434	<i>TNXB</i>
cg21335375	0.00332	0.1944	9	10	0.77486	0.12434	<i>CCL3</i>
cg12707346	0.00332	0.5058	9	10	0.77486	0.12434	<i>RASSF3</i>
cg07470708	0.00332	0.3125	9	10	0.77486	0.12434	<i>NTF4</i>
cg04348689	0.00332	0.3853	9	10	0.77486	0.12434	<i>BTBD7</i>
cg00275828	0.00332	0.4927	9	10	0.77486	0.12434	<i>KRTAP2-4</i>
cg04751839	0.00284	0.5414	9	10	0.65309	0.12179	<i>GRTP1</i>
cg16287284	0.00267	0.5552	10	7	0.76956	0.12083	<i>SLC5A8</i>
cg08616516	0.00284	0.4086	9	9	0.85968	0.12058	<i>GRM5</i>
cg17878899	0.00247	0.7454	9	10	0.41381	0.11967	<i>KIAA1210</i>
cg02709924	0.00247	0.3903	9	10	0.41381	0.11967	<i>NRG1</i>
cg00573887	0.00174	0.6139	8	11	0.90134	0.11739	<i>RN7SK</i>
cg05807489	0.00174	0.4673	8	11	0.90134	0.11739	<i>SOX8</i>
cg18052106	0.00246	0.6802	8	11	0.30158	0.11712	<i>EPHA7</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg27535687	0.00246	0.722	8	11	0.30158	0.11712	<i>CPLX4</i>
cg01982835	0.00246	0.5762	8	11	0.30158	0.11712	<i>DLGAP4</i>
cg25673598	0.00262	0.7197	10	9	0.93487	0.11706	<i>EPN2</i>
cg14387312	0.00221	0.5285	10	9	0.96741	0.11462	<i>RASL11B</i>
cg07015886	0.00221	0.4418	10	9	0.96741	0.11462	<i>TLR5</i>
cg08027265	0.00221	0.6876	10	9	0.96741	0.11462	<i>NUDT1</i>
cg12935818	0.00221	0.3388	10	9	0.96741	0.11462	<i>RAB17</i>
cg09578829	0.00221	0.7693	10	9	0.96741	0.11462	<i>TBC1D1</i>
cg07236190	0.00221	0.7203	10	9	0.96741	0.11462	<i>AMDHD1</i>
cg10769201	0.00221	0.5725	10	9	0.96741	0.11462	<i>VWA3B</i>
cg24997585	0.00221	0.8025	10	9	0.96741	0.11462	<i>GABRB3</i>
cg23030159	0.00221	0.8235	10	9	0.96741	0.11462	<i>UNCX</i>
cg10142837	0.00168	0.5999	9	10	0.90244	0.11355	<i>PITX2</i>
cg18432441	0.00175	0.5716	9	10	0.71306	0.11277	<i>TUB</i>
cg10320783	0.00175	0.7569	9	10	0.71306	0.11277	<i>CADM1</i>
cg21318380	0.00175	0.1962	9	10	0.71306	0.11277	<i>KCNG1</i>
cg26346796	0.00175	0.5242	9	10	0.71306	0.11277	<i>TNXB</i>
cg09490523	0.00186	0.6362	10	9	0.80633	0.11219	<i>BCAR1</i>
cg08525713	0.00143	0.3736	10	9	0.59529	0.11209	<i>DNAH5</i>
cg24102792	0.00143	0.9018	10	9	0.59529	0.11209	<i>TEX29</i>
cg01181681	0.00143	0.1611	10	9	0.59529	0.11209	<i>TLR5</i>
cg23244948	0.00143	0.8445	10	9	0.59529	0.11209	<i>RPL10L</i>
cg27183007	0.00143	0.5497	10	9	0.59529	0.11209	<i>ZPBP</i>
cg17413460	0.00143	0.673	10	9	0.59529	0.11209	<i>HAL</i>
cg13720705	0.00151	0.7486	9	10	0.46204	0.11093	<i>MTRNR2L7</i>
cg10888138	0.00121	0.4629	10	9	0.87017	0.10984	<i>SHISA2</i>
cg18194850	0.00127	0.8493	9	10	0.59529	0.10878	<i>SUCLG2</i>
cg17242362	0.00127	0.6248	9	10	0.59529	0.10878	<i>ATXN7L1</i>
cg23878404	0.00127	0.6053	9	10	0.59529	0.10878	<i>KRTAP1-5</i>
cg09268963	0.00127	0.6557	9	10	0.59529	0.10878	<i>SYNE2</i>
cg01252455	0.00127	0.5573	9	10	0.59529	0.10878	<i>CPLX2</i>
cg25060339	0.00168	0.7001	11	8	0.83631	0.10821	<i>MIR203B</i>
cg23696618	0.00168	0.7518	11	8	0.83631	0.10821	<i>SERPINB10</i>
cg26914334	0.00168	0.6620	11	8	0.83631	0.10821	<i>GRIK4</i>
cg03229996	0.00173	0.6076	8	10	0.50494	0.10803	<i>ZNF469</i>
cg16179969	0.00097	0.3707	9	9	0.47947	0.10712	<i>ACAN</i>
cg07175433	0.00155	0.5629	8	11	0.94843	0.10581	<i>KCNIP4</i>
cg07940804	0.00139	0.5196	8	11	0.96704	0.10463	<i>ACTRT1</i>
cg15731296	0.00139	0.5094	8	11	0.96704	0.10463	<i>PRRG3</i>
cg09718371	0.00091	0.7411	11	8	0.59114	0.10333	<i>JAKMIP3</i>
cg22027471	0.00112	0.084	10	8	0.62471	0.10213	<i>SLC5A4</i>
cg10451200	0.00112	0.7098	10	8	0.68897	0.10213	<i>GRM5</i>
cg19526076	0.00112	0.6926	10	8	0.68897	0.10213	<i>KLF12</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg15050865	0.00091	0.777	10	9	0.71306	0.10206	<i>CDH18</i>
cg15379170	0.00103	0.7144	11	8	0.16003	0.10185	<i>EFHD1</i>
cg03099780	0.00106	0.5415	8	11	0.83631	0.10179	<i>MBNL2</i>
cg08674227	0.00075	0.4698	11	8	0.77238	0.10127	<i>XKRX</i>
cg01126560	0.00075	0.1289	11	8	0.77238	0.10127	<i>PAXX</i>
cg00497905	0.00075	0.1443	11	8	0.77238	0.10127	<i>MYO7A</i>
cg20959965	0.00075	0.4067	11	8	0.77238	0.10127	<i>CYBB</i>
cg14410557	0.00075	0.5356	11	8	0.77238	0.10127	<i>C9orf62</i>
cg26651775	0.00075	0.2822	11	8	0.77238	0.10127	<i>METRN</i>
cg24860560	0.00075	0.6941	11	8	0.77238	0.10127	<i>MIR4472-1</i>
cg24852442	0.00075	0.1635	11	8	0.77238	0.10127	<i>MYO7A</i>
cg20860188	0.00075	0.2732	11	8	0.77238	0.10127	<i>KLHL29</i>
cg10040821	0.00095	0.4445	10	9	0.53994	0.09971	<i>ANKS1B</i>
cg03544781	0.00095	0.669	10	9	0.53994	0.09971	<i>PDP1</i>
cg25880242	0.00095	0.8111	10	9	0.53994	0.09971	<i>ACTRT2</i>
cg00840694	0.00095	0.6633	10	9	0.53994	0.09971	<i>MYOM2</i>
cg20152871	0.00095	0.633	10	9	0.53994	0.09971	<i>MIR1208</i>
cg02585931	0.00095	0.7145	10	9	0.53994	0.09971	<i>GALR3</i>
cg21549497	0.00095	0.617	10	9	0.53994	0.09971	<i>CRYAA</i>
cg11068289	0.00095	0.5057	10	9	0.53994	0.09971	<i>CHMP6</i>
cg19091930	0.00095	0.7087	10	9	0.53994	0.09971	<i>LRRC14B</i>
cg13010014	0.00095	0.2945	10	9	0.53994	0.09971	<i>ROBO3</i>
cg06291334	0.00095	0.0782	10	9	0.53994	0.09971	<i>SPOP</i>
cg22101045	0.00095	0.3735	10	9	0.53994	0.09971	<i>NUP160</i>
cg18559799	0.00095	0.551	10	9	0.53994	0.09971	<i>PPY</i>
cg21564495	0.00095	0.4624	10	9	0.53994	0.09971	<i>FAM19A5</i>
cg18778097	0.00095	0.6214	10	9	0.53994	0.09971	<i>NLRP7</i>
cg23057567	0.00095	0.391	10	9	0.53994	0.09971	<i>PNMA8B</i>
cg10287786	0.00095	0.6589	10	9	0.53994	0.09971	<i>DSCAML1</i>
cg26677288	0.00095	0.6044	10	9	0.53994	0.09971	<i>KIF26B</i>
cg12838168	0.00095	0.4293	10	9	0.53994	0.09971	<i>LRRC15</i>
cg02886188	0.00095	0.2837	10	9	0.53994	0.09971	<i>DCTD</i>
cg14432251	0.00095	0.7468	10	9	0.53994	0.09971	<i>DNAJB6</i>
cg03333699	0.00095	0.6317	10	9	0.53994	0.09971	<i>ADAP1</i>
cg19794207	0.00095	0.3521	10	9	0.53994	0.09971	<i>GRIN1</i>
cg26865084	0.00095	0.5346	10	9	0.53994	0.09971	<i>SMOC2</i>
cg16726532	0.00095	0.6012	10	9	0.53994	0.09971	<i>AEBP2</i>
cg11211263	0.00095	0.6233	10	9	0.53994	0.09971	<i>STUM</i>
cg09696747	0.00095	0.7028	10	9	0.53994	0.09971	<i>TEX29</i>
cg16257533	0.00095	0.6861	10	9	0.53994	0.09971	<i>NTM</i>
cg00234046	0.00095	0.7051	10	9	0.53994	0.09971	<i>CDH23</i>
cg00588517	0.00095	0.6509	10	9	0.53994	0.09971	<i>C2</i>
cg13491662	0.00095	0.6353	10	9	0.53994	0.09971	<i>C2orf27B</i>

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>Gene</b>
cg00396699	0.00095	0.6897	10	9	0.53994	0.09971	<i>CACNA1H</i>
cg15715746	0.00061	0.9452	11	8	1	0.09879	<i>MAGEB2</i>
cg08706312	0.00061	0.8313	11	8	1	0.09879	<i>MAGEB1</i>
cg13183298	0.00078	0.566	10	9	0.32676	0.09781	<i>PLCH2</i>
cg02143487	0.00078	0.0462	10	9	0.32676	0.09781	<i>TMEM105</i>
cg14095048	0.00046	0.1111	10	9	0.77486	0.09776	<i>TMEM211</i>
cg19250417	0.00046	0.7096	10	9	0.77486	0.09776	<i>CRMP1</i>
cg00139681	0.00062	0.2176	10	9	0.43754	0.09551	<i>CCDC71L</i>
cg05046377	0.00062	0.7021	10	9	0.43754	0.09551	<i>OR51A7</i>
cg17742099	0.00062	0.5526	10	9	0.43754	0.09551	<i>GABBR1</i>
cg10819238	0.00062	0.1908	10	9	0.43754	0.09551	<i>SBNO2</i>
cg09284275	0.00062	0.3432	10	9	0.43754	0.09551	<i>MYH11</i>
cg10818566	0.00062	0.5818	10	9	0.43754	0.09551	<i>TTC7A</i>
cg20063450	0.00062	0.4013	10	9	0.43754	0.09551	<i>KRT32</i>
cg15230985	0.00062	0.8494	10	9	0.43754	0.09551	<i>RPTOR</i>
cg27310092	0.00062	0.1779	10	9	0.43754	0.09551	<i>S100A10</i>
cg26928972	0.00062	0.3466	10	9	0.43754	0.09551	<i>CSTA</i>
cg11939346	0.00062	0.8668	10	9	0.43754	0.09551	<i>KALRN</i>
cg06586713	0.00062	0.7013	10	9	0.43754	0.09551	<i>PCLO</i>
cg26925644	0.00062	0.3798	10	9	0.43754	0.09551	<i>PHLDB1</i>
cg23083774	0.00062	0.3935	10	9	0.43754	0.09551	<i>PLPPR3</i>
cg01883046	0.00062	0.7095	10	9	0.43754	0.09551	<i>SP3</i>
cg14161165	0.00062	0.7987	10	9	0.43754	0.09551	<i>ASTN2</i>
cg14187687	0.00062	0.1918	10	9	0.43754	0.09551	<i>SAMD4A</i>
cg04949225	0.00062	0.5063	10	9	0.43754	0.09551	<i>DLEU1</i>
cg16452651	0.00062	0.3708	10	9	0.43754	0.09551	<i>ITSN1</i>
cg02258846	0.00062	0.4423	10	9	0.43754	0.09551	<i>SCML4</i>
cg12866960	0.00062	0.4611	10	9	0.43754	0.09551	<i>IRAK3</i>
cg24341657	0.00062	0.5979	10	9	0.43754	0.09551	<i>DOK7</i>
cg22009908	0.00062	0.1438	10	9	0.43754	0.09551	<i>EFNA5</i>
cg00078513	0.00062	0.4067	10	9	0.43754	0.09551	<i>SNORD115-40</i>
cg14457875	0.00062	0.5716	10	9	0.43754	0.09551	<i>MUC21</i>
cg14462670	0.00062	0.171	10	9	0.43754	0.09551	<i>CRK</i>
cg21243944	0.00062	0.5936	10	9	0.43754	0.09551	<i>RNU6ATAC</i>
cg02098075	0.00062	0.546	10	9	0.43754	0.09551	<i>EFCAB1</i>
cg19984911	0.00062	0.2693	10	9	0.43754	0.09551	<i>SYNPO</i>
cg07549474	0.00062	0.4889	10	9	0.43754	0.09551	<i>MAGEC2</i>
cg06172871	0.00062	0.2834	10	9	0.43754	0.09551	<i>HP</i>
cg00987534	0.00062	0.4476	10	9	0.43754	0.09551	<i>CLDN3</i>
cg14022913	0.00062	0.394	10	9	0.43754	0.09551	<i>NEIL3</i>
cg15167202	0.00062	0.6919	10	9	0.43754	0.09551	<i>SYNPO</i>
cg09824603	0.00062	0.3941	10	9	0.43754	0.09551	<i>IGFBP3</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg27268708	0.00062	0.6608	10	9	0.43754	0.09551	<i>HS3ST1</i>
cg01579636	0.00062	0.4498	10	9	0.43754	0.09551	<i>IL17B</i>
cg12738008	0.00062	0.859	10	9	0.43754	0.09551	<i>MYOM2</i>
cg24955682	0.00062	0.1483	10	9	0.43754	0.09551	<i>HLA-G</i>
cg06578434	0.00062	0.3089	10	9	0.43754	0.09551	<i>SBNO2</i>
cg25941151	0.00062	0.4543	10	9	0.43754	0.09551	<i>TYR</i>
cg09648454	0.00062	0.5148	10	9	0.43754	0.09551	<i>ABCC12</i>
cg13575139	0.00062	0.1119	10	9	0.43754	0.09551	<i>KCTD6</i>
cg17631184	0.00062	0.7184	10	9	0.43754	0.09551	<i>CTTN</i>
cg17943672	0.00062	0.3481	10	9	0.43754	0.09551	<i>TCAIM</i>
cg26657086	0.00062	0.5049	10	9	0.43754	0.09551	<i>BTNL2</i>
cg03579045	0.00062	0.603	10	9	0.43754	0.09551	<i>GATA4</i>
cg21448927	0.00062	0.4998	10	9	0.43754	0.09551	<i>FNDC1</i>
cg23482746	0.00062	0.5897	10	9	0.43754	0.09551	<i>TMEM266</i>
cg02961101	0.00062	0.1485	10	9	0.43754	0.09551	<i>SIAH1</i>
cg13694680	0.00062	0.4974	10	9	0.43754	0.09551	<i>FIBIN</i>
cg26415633	0.00062	0.7187	10	9	0.43754	0.09551	<i>KLK1</i>
cg02809611	0.00062	0.3341	10	9	0.43754	0.09551	<i>OR1F1</i>
cg19027636	0.00062	0.8043	10	9	0.43754	0.09551	<i>NSD1</i>
cg25113360	0.00053	0.2603	8	11	0.3419	0.09351	<i>GRIK4</i>
cg05556461	0.00053	0.6092	8	11	0.3419	0.09351	<i>CARTPT</i>
cg19139729	0.00036	0.5603	11	8	0.53537	0.09288	<i>SULT2A1</i>
cg24822127	0.00048	0.4112	10	9	0.11103	0.09265	<i>FATE1</i>
cg07776049	0.00034	0.4089	11	8	0.90134	0.09007	<i>SNTG2</i>
cg24640101	0.00034	0.1073	11	8	0.90134	0.09007	<i>SNORD115-37</i>
cg26958838	0.0003	0.7912	11	7	0.38909	0.08909	<i>IRX2</i>
cg12669395	0.00027	0.3945	11	8	0.70997	0.08845	<i>DDR1</i>
cg00583426	0.00027	0.1515	11	8	0.70997	0.08845	<i>CACNA1H</i>
cg19175742	0.00027	0.3542	11	8	0.70997	0.08845	<i>AP3B2</i>
cg08747676	0.00059	0.4768	10	9	0.41381	0.08785	<i>CIQTNF8</i>
cg16966496	0.00021	0.5065	11	8	0.457	0.08649	<i>TBX3</i>
cg01998808	0.00021	0.5453	11	8	0.457	0.08649	<i>LMF1</i>
cg16034268	0.00021	0.25	11	8	0.457	0.08649	<i>SFRP1</i>
cg10052840	0.00054	0.4552	11	8	0.3419	0.08542	<i>SEMA6B</i>
cg15597096	0.00054	0.5181	11	8	0.3419	0.08542	<i>CSF3R</i>
cg24323597	0.00054	0.8157	11	8	0.3419	0.08542	<i>KALRN</i>
cg00074348	0.00016	0.3931	11	8	0.59114	0.08401	<i>APLNR</i>
cg21591938	0.00016	0.6461	11	8	0.59114	0.08401	<i>FAR2</i>
cg17823175	0.00016	0.2411	11	8	0.59114	0.08401	<i>AZU1</i>
cg22620071	0.00016	0.6982	11	8	0.59114	0.08401	<i>YTHDC2</i>
cg24517501	0.00016	0.2411	11	8	0.59114	0.08401	<i>GFII1</i>
cg08625482	0.00016	0.3715	11	8	0.59114	0.08401	<i>NEFL</i>

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>Gene</b>
cg05294112	0.00016	0.1785	11	8	0.59114	0.08401	<i>SOX1</i>
cg09674502	0.00016	0.7046	11	8	0.59114	0.08401	<i>GFII</i>
cg16631083	0.00016	0.4827	11	8	0.59114	0.08401	<i>HUNK</i>
cg02987482	0.00016	0.1434	11	8	0.59114	0.08401	<i>MLLT1</i>
cg01766941	0.00016	0.5479	11	8	0.59114	0.08401	<i>GFII</i>
cg20689476	0.00016	0.4021	11	8	0.59114	0.08401	<i>PPP2R2C</i>
cg18004847	0.00016	0.2749	11	8	0.59114	0.08401	<i>SBNO2</i>
cg04777348	0.00016	0.5611	11	8	0.59114	0.08401	<i>GFII</i>
cg07717083	0.00016	0.6494	11	8	0.59114	0.08401	<i>TNXB</i>
cg18618429	0.00016	0.142	11	8	0.59114	0.08401	<i>CSTA</i>
cg09488090	0.00031	0.5882	11	8	0.26455	0.08091	<i>PMFBP1</i>
cg26394380	0.00031	0.6128	11	8	0.26455	0.08091	<i>SFTPB</i>
cg16544010	0.00031	0.7266	11	8	0.26455	0.08091	<i>DLK1</i>
cg13250566	0.00031	0.5158	11	8	0.26455	0.08091	<i>TUBG2</i>
cg15060366	0.00022	0.1775	9	10	0.23603	0.08	<i>PCSK2</i>
cg14561934	0.0001	0.5273	10	9	0.59529	0.07704	<i>FAM171A1</i>
cg00947324	0.00026	0.8096	10	8	0.16801	0.07562	<i>AK7</i>
cg26123605	0.00008	0.1344	10	7	0.26116	0.07049	<i>ZIC1</i>
cg14431020	0.00082	0.3698	8	9	0.88509	0.06106	<i>ELMO1</i>
cg23749637	0.00098	0.1166	8	10	0.89386	0.05915	<i>NXN</i>
cg07812957	0.00069	0.5273	8	11	1	0.0564	<i>KLF2</i>
cg14544831	0.00069	0.195	8	11	1	0.0564	<i>BCL2</i>
cg23009780	0.00069	0.6074	8	11	1	0.0564	<i>ADRA2B</i>
cg26201596	0.0006	0.4575	8	11	0.74096	0.05566	<i>DIP2C</i>
cg03706086	0.00051	0.4413	8	11	0.90134	0.0548	<i>NCOA2</i>
cg01293740	0.00051	0.3207	8	11	0.90134	0.0548	<i>CACNG8</i>
cg09842053	0.00051	0.7695	8	11	0.90134	0.0548	<i>XDH</i>
cg24764810	0.00051	0.5592	8	11	0.90134	0.0548	<i>HCG22</i>
cg11228126	0.00055	0.2631	9	9	0.40106	0.05399	<i>NEUROG3</i>
cg17919471	0.00033	0.6935	8	11	0.64944	0.05215	<i>XAGE3</i>
cg06729381	0.00029	0.6602	9	10	0.83812	0.0520	<i>SYT7</i>
cg21878759	0.00029	0.5101	9	10	0.83812	0.0520	<i>LOXHD1</i>
cg14765834	0.00043	0.5971	9	10	0.83812	0.05189	<i>YBX2</i>
cg20951266	0.00043	0.4929	9	10	0.83812	0.05189	<i>SMCP</i>
cg16591659	0.00043	0.7846	9	10	0.83812	0.05189	<i>NPTX1</i>
cg14962049	0.00043	0.8189	9	10	0.83812	0.05189	<i>PRELID2</i>
cg26331243	0.00025	0.6428	9	10	0.93487	0.05121	<i>CCDC33</i>
cg14520512	0.00036	0.6286	9	10	0.56729	0.05109	<i>MBNL3</i>
cg24508310	0.00036	0.5879	9	10	0.56729	0.05109	<i>BCOR</i>
cg25927227	0.00036	0.5727	9	10	0.56729	0.05109	<i>SFRP1</i>
cg11229415	0.00029	0.5424	9	10	0.71306	0.05015	<i>PLCH2</i>
cg11612905	0.00029	0.8075	9	10	0.71306	0.05015	<i>DGKD</i>
cg01759110	0.00029	0.6416	9	10	0.71306	0.05015	<i>ADAMDEC1</i>

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>HR</b>	<b>Gene</b>
cg00328597	0.00029	0.6838	9	10	0.71306	0.05015	<i>ACTN2</i>
cg19145082	0.00029	0.4592	9	10	0.71306	0.05015	<i>CHST2</i>
cg20048109	0.00029	0.5326	9	10	0.71306	0.05015	<i>MAGI2</i>
cg05573626	0.00029	0.3643	9	10	0.71306	0.05015	<i>ZNF423</i>
cg17086773	0.00029	0.6137	9	10	0.71306	0.05015	<i>CD200R1L</i>
cg16375358	0.00029	0.5481	9	10	0.71306	0.05015	<i>CACNG5</i>
cg04755857	0.00024	0.6854	8	11	0.38552	0.04991	<i>EVC</i>
cg08313382	0.00024	0.5539	8	11	0.38552	0.04991	<i>MIR4278</i>
cg01206723	0.00024	0.5947	8	11	0.38552	0.04991	<i>RNU4-1</i>
cg16491739	0.00014	0.4567	10	9	1	0.04713	<i>C14orf180</i>
cg14737125	0.00019	0.8232	10	9	0.48729	0.04700	<i>GBX2</i>
cg06079509	0.00016	0.6766	9	10	0.48729	0.04684	<i>WFS1</i>
cg10331779	0.00024	0.3407	7	11	0.46828	0.04612	<i>CTNND2</i>
cg17588373	0.00014	0.5269	10	9	0.13057	0.04552	<i>GPM6B</i>
cg27426921	0.00009	0.7377	10	9	0.90244	0.04524	<i>PFKP</i>
cg12580770	0.00007	0.5010	10	8	0.22985	0.04387	<i>HTR5A</i>
cg08318283	0.00011	0.1952	9	10	0.26992	0.04358	<i>HCN4</i>
cg05035315	0.00011	0.4064	9	10	0.26992	0.04358	<i>OPCML</i>
cg04697056	0.00011	0.4756	9	10	0.26992	0.04358	<i>FAT1</i>
cg04086012	0.00011	0.6792	9	10	0.26992	0.04358	<i>TRIML1</i>
cg05576949	0.00011	0.3892	9	10	0.26992	0.04358	<i>IGF2BP2</i>
cg11873482	0.00006	0.2734	11	8	0.50851	0.04249	<i>TAC1</i>
cg04139223	0.00006	0.4809	11	8	0.50851	0.04249	<i>SLC9A3</i>
cg14206523	0.00004	0.6480	10	9	0.65309	0.04215	<i>GJD2</i>
cg11889730	0.00006	0.3548	9	10	0.19103	0.03748	<i>MTRNR2L7</i>
cg14737484	0.00975	0.0411	11	8	0.44036		<i>TNXB</i>
cg04318657	0.0002	0.3044	9	10	0.94502		<i>PRKX</i>
cg11638347	0.0002	0.5405	9	10	0.94502		<i>HLCS</i>
cg18142353	0.0002	0.2310	9	10	0.94502		<i>LRP6</i>
cg11678461	0.0002	0.4534	9	10	0.94502		<i>OSBPL5</i>
cg22202121	0.00012	0.2889	8	11	0.94843		<i>ZNF292</i>
cg05255275	0.00981	0.1323	9	9	0.28907		<i>C14orf39</i>
cg01377936	0.00253	0.5973	9	10	0.36869		<i>DMD</i>
cg16101493	0.00253	0.1580	9	10	0.36869		<i>POU4F3</i>
cg10815229	0.00253	0.1535	9	10	0.17753		<i>HELT</i>
cg06532574	0.00107	0.8731	8	11	0.81254		<i>ELL2</i>
cg18568145	0.00107	0.3519	8	11	0.81254		<i>FAM189B</i>

**Annex IX Additional information about the 691 candidate biomarkers of prognostic of DNA methylation in patients with AML-M2 categorized in the intermediate prognostic risk group.**

CpG sites	location	status	ratio	delta beta	<i>p-value</i>	Gene	Bibliographic analysis	cluster
cg00645383	Distal Intergenic	low	1.11	-0.28	7.91E-08	SPACA7	non-leukemia cancer types	
cg12899423	1st Intron	low	1.11	-0.29	1.63E-05	ALX4	cited in AML	
cg02939781	3' UTR	low	0.90	-0.29	9.67E-08	KLHL6	cited in AML	
cg23357198	Promoter (1-2kb)	low	1.38	-0.34	7.78E-07	PTPRT	cited in AML	49
cg17264618	Promoter (<=1kb)	low	1.38	-0.33	1.13E-04	ENTPD3	non-leukemia cancer types	49
cg25824217	Promoter (<=1kb)	low	1.11	-0.54	2.17E-05	HLA-DPA1	cited in AML	12
cg14178336	Promoter (1-2kb)	low	1.11	-0.39	7.79E-07	CALN1	non-leukemia cancer types	12
cg00622702	3' UTR	low	1.11	-0.45	1.11E-06	IFR1	cited in AML	12
cg06321596	Promoter (1-2kb)	low	1.11	-0.49	2.17E-05	XYLT1	non-leukemia cancer types	12
cg08708961	Other Intron	low	1.11	-0.65	2.17E-05	PSEN2	cited in AML	12
cg12224030	Promoter (1-2kb)	low	1.11	-0.29	2.17E-05	DLX4	cited in AML	12
cg14396892	Distal Intergenic	low	0.73	-0.41	3.26E-04	MIR4291	never cited	
cg08198176	Promoter (<=1kb)	low	0.90	-0.34	2.25E-05	ITGA9	non-AML leukemia types	75
cg03572859	Promoter (<=1kb)	low	0.90	-0.49	1.91E-06	SORBS3	non-leukemia cancer types	75
cg17142470	Promoter (<=1kb)	low	0.90	-0.51	9.40E-06	SORBS3	non-leukemia cancer types	75
cg18867923	Other Intron	low	0.90	-0.43	8.11E-08	TBX1	non-AML leukemia types	75
cg22595391	Promoter (<=1kb)	low	1.00	-0.22	2.04E-04	CYBC1	cited in PubMed	
cg07691306	Other Intron	low	1.25	-0.23	4.57E-05	ARID3A	cited in AML	
cg25832925	Downstream (<=300)	low	1.11	-0.43	1.19E-05	ARX	cited in AML	
cg08076437	Downstream (<=300)	low	1.38	-0.46	2.72E-06	IRX3	cited in AML	111
cg00741986	Other Intron	low	1.38	-0.25	2.40E-05	TNIP2	non-AML leukemia types	111
cg00306721	Promoter (<=1kb)	low	1.13	-0.21	8.23E-05	BSCL2	non-AML leukemia types	
cg01496199	Distal Intergenic	low	1.43	-0.25	8.55E-04	IFNL2	non-AML leukemia types	
cg07820189	Distal Intergenic	low	0.73	-0.31	2.58E-04	LAMC2	non-AML leukemia types	

cg07991 621	Promoter (≤1kb)	low	0.7 3	-0.52	2.65E -05	SH3BP2	non-AML leukemia types	32
cg06588 645	Promoter (2- 3kb)	low	0.7 3	-0.55	2.65E -05	TNS3	non-leukemia cancer types	32
cg22738 642	Distal Intergenic	low	0.7 3	-0.31	2.65E -05	PRICKLE 1	non-AML leukemia types	32
cg27123 691	Promoter (≤1kb)	low	0.7 3	-0.41	1.18E -05	CSPG4	cited in AML	32
cg17858 880	Promoter (2- 3kb)	low	0.7 3	-0.32	1.66E -05	TNS3	non-leukemia cancer types	32
cg11223 365	Distal Intergenic	low	0.7 3	-0.50	2.65E -05	WNT9A	cited in AML	32
cg10734 665	Promoter (≤1kb)	low	0.7 3	-0.52	2.65E -05	ATP10A	non-AML leukemia types	32
cg25151 498	Other Intron	low	0.7 3	-0.54	2.65E -05	ETV5	non-AML leukemia types	32
cg10542 562	Promoter (≤1kb)	low	0.7 3	-0.41	2.65E -05	FLI1	cited in AML	32
cg10745 272	Promoter (≤1kb)	low	0.7 3	-0.38	3.34E -06	SH3BP2	non-AML leukemia types	32
cg15630 950	Promoter (≤1kb)	low	0.7 3	-0.37	2.65E -05	HLA- DOA	cited in AML	32
cg27635 394	Promoter (≤1kb)	low	0.6 4	-0.30	6.28E -05	HIST1H2 BB	non-leukemia cancer types	
cg24943 609	Promoter (1- 2kb)	low	1.3 8	-0.23	1.04E -04	ZNF652	cited in AML	
cg02639 366	Promoter (1- 2kb)	low	0.7 3	-0.22	2.03E -05	AGO4	non-leukemia cancer types	302
cg18252 102	Promoter (1- 2kb)	low	0.7 3	-0.21	2.65E -05	FARP1	non-leukemia cancer types	302
cg02198 513	Other Intron	low	1.3 8	-0.65	2.65E -05	TMEM15 6	non-leukemia cancer types	221
cg04359 840	Promoter (1- 2kb)	low	1.3 8	-0.48	8.77E -07	XYLT1	non-leukemia cancer types	221
cg13225 413	Promoter (≤1kb)	low	1.1 1	-0.30	2.17E -05	ZNF232	non-leukemia cancer types	156
cg08668 790	Promoter (≤1kb)	low	1.1 1	-0.50	5.17E -05	ZNF154	non-leukemia cancer types	156
cg12407 791	Other Intron	low	1.1 1	-0.38	5.11E -06	UNC13D	cited in AML	156
cg20392 842	Promoter (≤1kb)	low	0.9 0	-0.51	2.17E -05	HLA- DMB	cited in AML	60
cg08515 841	Promoter (≤1kb)	low	0.9 0	-0.62	2.17E -05	KLF7	cited in AML	60
cg21429 394	Promoter (≤1kb)	low	0.9 0	-0.37	2.08E -05	SLC17A8	non-leukemia cancer types	60
cg16236 263	Promoter (≤1kb)	low	0.9 0	-0.45	2.17E -05	HLA- DMB	cited in AML	60
cg16430 854	Promoter (≤1kb)	low	0.9 0	-0.24	4.85E -06	SDK2	non-leukemia cancer types	60
cg02627 403	3' UTR	low	0.9 0	-0.31	4.23E -05	UNC13D	cited in AML	60
cg01951 879	Downstream (≤300)	low	0.9 0	-0.54	2.17E -05	IRX3	cited in AML	60

cg10792 987	Other Intron	low	0.9 0	-0.57	2.17E -05	ELL	cited in AML	60
cg13320 436	Distal Intergenic	low	0.9 0	-0.25	1.12E -04	MRPL15	non-leukemia cancer types	60
cg03015 498	Distal Intergenic	low	1.3 8	-0.30	2.65E -05	SFMBT2	cited in AML	
cg01467 100	Promoter (1- 2kb)	low	0.7 3	-0.24	1.16E -06	PFKFB3	cited in AML	
cg03187 301	Promoter (1- 2kb)	low	0.9 0	-0.25	5.51E -06	MCRS1	non-AML leukemia types	
cg22074 576	1st Intron	low	1.1 1	-0.59	5.65E -07	OSBPL5	non-leukemia cancer types	
cg15594 585	Distal Intergenic	low	0.7 3	-0.26	1.27E -06	ZNF678	never cited	
cg10002 133	Promoter (<=1kb)	low	1.3 8	-0.20	2.65E -05	NTRK3	cited in AML	20
cg07010 633	Other Intron	low	1.3 8	-0.45	2.65E -05	UNC13D	cited in AML	20
cg08347 500	Downstream (<=300)	low	1.3 8	-0.47	2.65E -05	IRX3	cited in AML	20
cg14905 657	Promoter (<=1kb)	low	1.3 8	-0.21	2.65E -05	LMO3	non-AML leukemia types	20
cg21747 330	Promoter (<=1kb)	low	1.3 8	-0.55	2.65E -05	GRIA3	non-leukemia cancer types	
cg16207 110	Promoter (1- 2kb)	low	0.7 3	-0.49	2.65E -05	TR	cited in AML	122
cg08369 368	Promoter (<=1kb)	low	0.7 3	-0.43	2.65E -05	NSD1	cited in AML	122
cg06400 704	Promoter (1- 2kb)	low	1.3 8	-0.45	5.91E -06	FMN2	non-AML leukemia types	
cg24924 577	1st Intron	low	1.3 8	-0.36	8.66E -05	SEMA4B	non-AML leukemia types	
cg05818 394	Promoter (1- 2kb)	low	0.7 0	-0.20	2.90E -05	HMGB1	cited in AML	
cg24387 864	Promoter (1- 2kb)	low	1.3 8	-0.51	2.65E -05	CCND1	cited in AML	
cg18176 723	Other Intron	low	1.2 5	-0.24	4.57E -05	PPCDC	non-leukemia cancer types	
cg03599 590	Promoter (1- 2kb)	low	1.2 5	-0.36	4.57E -05	SLC35A5	non-leukemia cancer types	
cg07967 918	Promoter (1- 2kb)	low	1.3 8	-0.29	3.04E -05	SOBP	non-AML leukemia types	105
cg06975 048	3' UTR	low	1.3 8	-0.24	2.65E -05	KCB3	non-leukemia cancer types	105
cg06427 054	Other Intron	low	1.3 8	-0.40	2.65E -05	GSX2	cited in AML	
cg05649 922	1st Intron	low	1.1 1	-0.33	4.53E -06	ARID1A	cited in AML	67
cg12573 289	1st Intron	low	1.1 1	-0.25	2.33E -06	CCM2	non-leukemia cancer types	67
cg17103 217	Promoter (<=1kb)	low	1.1 1	-0.24	6.21E -06	B3GALT4	non-leukemia cancer types	67
cg09584 521	Promoter (<=1kb)	low	1.1 1	-0.36	2.17E -05	CD58	cited in AML	67

cg13707025	Promoter (<=1kb)	low	1.38	-0.32	1.11E-05	KCNK10	non-leukemia cancer types	
cg21518432	Promoter (<=1kb)	low	1.38	-0.20	6.07E-05	SHC4	non-leukemia cancer types	280
cg12258811	Promoter (<=1kb)	low	1.38	-0.26	2.65E-05	PER3	cited in AML	280
cg23681664	Promoter (1-2kb)	low	0.90	-0.57	2.17E-05	CPNE9	never cited	
cg22371591	Promoter (<=1kb)	low	0.73	-0.62	2.65E-05	MSX1	cited in AML	48
cg27175287	Promoter (1-2kb)	low	0.73	-0.32	3.65E-05	FOXE3	non-AML leukemia types	48
cg03247049	Promoter (<=1kb)	low	1.11	-0.38	4.22E-05	AXL	cited in AML	149
cg19037007	3' UTR	low	1.11	-0.27	2.09E-05	SLC52A3	non-leukemia cancer types	149
cg12571423	Promoter (<=1kb)	low	1.38	-0.28	1.30E-04	CC1	cited in AML	6
cg20589883	Other Intron	low	1.38	-0.42	2.65E-05	ELOVL6	cited in AML	6
cg21618521	Promoter (<=1kb)	low	1.38	-0.31	1.50E-04	B3GALT4	non-leukemia cancer types	6
cg21611682	Other Intron	low	1.38	-0.26	2.65E-05	LRP5	cited in AML	6
cg04313565	Promoter (2-3kb)	low	1.38	-0.30	5.31E-06	XYLT1	non-leukemia cancer types	6
cg16300030	Promoter (<=1kb)	low	1.38	-0.50	1.05E-06	HLA-DMB	cited in AML	6
cg16794579	Promoter (2-3kb)	low	1.38	-0.51	2.65E-05	XYLT1	non-leukemia cancer types	6
cg17901382	Promoter (2-3kb)	low	1.38	-0.40	2.65E-05	TSEN54	non-leukemia cancer types	6
cg12135856	Promoter (<=1kb)	low	0.90	-0.39	2.17E-05	DSCAM	non-AML leukemia types	
cg07071609	Promoter (<=1kb)	low	0.90	-0.48	2.17E-05	PLIN5	non-leukemia cancer types	
cg17239923	Promoter (<=1kb)	low	1.38	-0.67	2.65E-05	FLI1	cited in AML	85
cg07834682	3' UTR	low	1.38	-0.23	3.04E-07	SIX2	non-AML leukemia types	85
cg04779860	Promoter (1-2kb)	low	1.38	-0.36	2.09E-06	EBF3	cited in AML	
cg27346806	Promoter (<=1kb)	low	0.90	-0.61	2.17E-05	VENTX	cited in AML	295
cg23357130	1st Intron	low	0.90	-0.54	2.17E-05	OSBPL5	non-leukemia cancer types	295
cg24640390	Distal Intergenic	low	0.90	-0.34	2.37E-05	NEUROG3	non-AML leukemia types	
cg09005679	Promoter (<=1kb)	low	0.90	-0.28	1.59E-05	EDN3	non-leukemia cancer types	146
cg08883485	Promoter (2-3kb)	low	0.90	-0.35	2.17E-05	V1	cited in AML	146
cg24217984	Promoter (<=1kb)	low	0.73	-0.37	1.20E-06	RGMA	non-AML leukemia types	

cg08001559	Promoter (<=1kb)	low	1.11	-0.38	3.55E-05	GNG2	non-AML leukemia types	
cg18342462	Promoter (<=1kb)	low	0.90	-0.51	2.17E-05	C11orf88	never cited	276
cg03655371	Distal Intergenic	low	0.90	-0.68	2.17E-05	TIFAB	cited in AML	276
cg05836145	Promoter (<=1kb)	low	0.73	-0.29	2.26E-06	SP8	non-AML leukemia types	
cg07681748	Promoter (1-2kb)	low	0.90	-0.59	2.17E-05	CD200	cited in AML	
cg04365202	Promoter (2-3kb)	low	0.73	-0.40	2.65E-05	LHX9	non-leukemia cancer types	
cg05257898	Promoter (<=1kb)	low	1.57	-0.22	1.14E-06	NKAP	non-AML leukemia types	
cg26487031	Promoter (<=1kb)	low	0.64	-0.35	7.72E-06	MPZL2	non-leukemia cancer types	
cg00779638	Promoter (1-2kb)	low	0.90	-0.41	2.17E-05	AGTPBP1	non-leukemia cancer types	
cg17156534	Promoter (1-2kb)	low	1.11	-0.43	5.43E-05	TOP1	cited in AML	
cg14422240	Other Intron	low	1.11	-0.39	2.17E-05	CMTR1	non-leukemia cancer types	
cg02876258	Promoter (2-3kb)	low	1.38	-0.50	5.05E-07	FGF5	non-AML leukemia types	
cg07928083	Promoter (1-2kb)	low	1.38	-0.36	8.04E-05	FOXB1	non-leukemia cancer types	
cg09757109	Promoter (<=1kb)	low	0.90	-0.51	2.17E-05	DIXDC1	cited in AML	
cg25042430	Promoter (1-2kb)	low	1.11	-0.37	2.17E-05	KIAA1217	non-leukemia cancer types	
cg21068610	Promoter (1-2kb)	low	0.90	-0.22	2.17E-05	CHD3	cited in AML	
cg14371590	Promoter (<=1kb)	low	1.11	-0.42	4.37E-06	SLC26A10	cited in PubMed	
cg07220903	Other Intron	low	1.11	-0.49	1.26E-07	CCDC12	cited in AML	
cg24994127	Other Intron	low	1.38	-0.38	2.65E-05	RALGAP A2	non-leukemia cancer types	178
cg07941108	Downstream (<=300)	low	1.38	-0.37	3.88E-05	PSMC1	non-leukemia cancer types	178
cg24250393	Promoter (<=1kb)	low	0.73	-0.29	5.90E-07	PRKCB	cited in AML	
cg04918402	Promoter (<=1kb)	low	1.57	-0.25	6.28E-05	LIMD2	non-leukemia cancer types	
cg27257822	Other Intron	low	0.90	-0.20	3.93E-06	EPHB3	non-AML leukemia types	
cg20276630	Distal Intergenic	low	0.73	-0.41	7.14E-05	PDLIM1	cited in AML	
cg04420723	Promoter (<=1kb)	low	0.73	-0.67	2.65E-05	ZNF184	non-leukemia cancer types	
cg05551825	Other Intron	low	0.73	-0.43	2.65E-05	RNF216	non-AML leukemia types	
cg20421446	Distal Intergenic	low	1.25	-0.31	4.57E-05	NRN1	non-leukemia cancer types	

cg18073 471	Promoter (≤1kb)	low	1.1 1	-0.54	2.17E -05	PRDM8	non-leukemia cancer types	165
cg13276 502	Distal Intergenic	low	1.1 1	-0.48	2.17E -05	SOX4	cited in AML	165
cg23045 908	Promoter (1- 2kb)	low	0.9 0	-0.58	2.17E -05	PDE4B	non-AML leukemia types	
cg08667 275	Downstream (≤300)	low	1.1 1	-0.30	8.58E -05	RNF26	non-AML leukemia types	
cg05327 596	Downstream (≤300)	low	0.7 3	-0.26	1.06E -06	COL11A2	cited in AML	
cg14762 436	1st Intron	low	1.3 8	-0.52	1.03E -07	OSBPL3	non-AML leukemia types	195
cg05071 046	Distal Intergenic	low	1.3 8	-0.40	1.25E -05	IRX3	cited in AML	195
cg15683 295	Other Exon	low	0.7 3	-0.34	2.65E -05	HOTTIP	cited in AML	
cg18653 350	Promoter (≤1kb)	low	1.3 8	-0.42	2.65E -05	SACS	cited in AML	
cg19839 325	1st Intron	low	0.7 3	-0.35	2.72E -05	KLHL26	non-leukemia cancer types	
cg27396 824	Other Exon	low	0.7 0	-0.21	0.001 052	ZAN	non-AML leukemia types	
cg22996 489	Promoter (≤1kb)	low	0.7 3	-0.52	1.16E -06	OXGR1	non-leukemia cancer types	
cg06638 433	Promoter (≤1kb)	low	0.7 3	-0.45	3.88E -06	IGF2BP1	cited in AML	
cg26111 030	Promoter (≤1kb)	low	1.1 1	-0.49	2.78E -04	ERBB2	cited in AML	
cg22902 505	Promoter (≤1kb)	low	1.1 1	-0.53	2.17E -05	PRDM8	non-leukemia cancer types	
cg14892 768	Promoter (≤1kb)	low	0.9 0	-0.35	8.86E -05	AXL	cited in AML	278
cg08586 366	Promoter (1- 2kb)	low	0.9 0	-0.48	5.36E -06	FLI1	cited in AML	278
cg03465 652	Other Intron	low	0.7 3	-0.39	1.11E -05	GLI2	cited in AML	
cg10334 354	Promoter (≤1kb)	low	0.7 3	-0.33	4.94E -06	EPHA5	non-AML leukemia types	
cg17691 657	Promoter (≤1kb)	low	1.3 8	-0.20	1.48E -05	SLC4A4	non-AML leukemia types	
cg07275 218	Promoter (1- 2kb)	low	1.0 0	-0.27	6.41E -05	BRD2	cited in AML	
cg19471 574	Distal Intergenic	low	1.1 1	-0.30	2.17E -05	TMEM16 1B	non-leukemia cancer types	
cg13409 248	Promoter (≤1kb)	low	0.7 3	-0.62	2.65E -05	ENTPD3	non-leukemia cancer types	273
cg19175 386	Distal Intergenic	low	0.7 3	-0.44	2.65E -05	TBX3	non-AML leukemia types	273
cg27077 033	Distal Intergenic	low	0.7 3	-0.24	2.30E -07	CEP170B	never cited	273
cg12220 058	Promoter (1- 2kb)	low	0.7 3	-0.57	2.65E -05	NMB	cited in AML	
cg21760 990	Promoter (≤1kb)	low	0.7 3	-0.35	1.23E -05	TBC1D32	cited in PubMed	

cg25313 172	Promoter (≤1kb)	low	1.1 1	-0.39	2.13E -04	KRT7	non-AML leukemia types	78
cg02390 329	Promoter (1- 2kb)	low	1.1 1	-0.43	2.72E -05	ZIC4	cited in AML	78
cg26955 132	Other Intron	low	1.1 1	-0.29	8.35E -05	FAM234B	cited in PubMed	113
cg18305 855	Other Intron	low	1.1 1	-0.45	2.17E -05	BMT2	cited in AML	113
cg05395 947	Distal Intergenic	low	0.7 3	-0.33	2.65E -05	SASH1	non-leukemia cancer types	
cg20645 065	Promoter (≤1kb)	low	0.7 3	-0.29	1.46E -05	ALPL	cited in AML	35
cg20910 202	Promoter (≤1kb)	low	0.7 3	-0.40	1.91E -06	KBTBD11	non-AML leukemia types	35
cg09436 375	Promoter (≤1kb)	low	0.7 3	-0.38	6.98E -05	GNMT	cited in AML	35
cg01606 885	Distal Intergenic	low	1.1 1	-0.25	2.17E -05	HSPB3	non-leukemia cancer types	
cg02457 623	1st Intron	low	1.5 7	-0.23	6.28E -05	ATP2B4	non-AML leukemia types	
cg11175 192	Promoter (≤1kb)	low	0.7 3	-0.35	1.61E -05	WNT6	non-AML leukemia types	
cg18495 563	Promoter (≤1kb)	low	0.8 0	-0.23	4.57E -05	TCP11L1	cited in PubMed	
cg05923 595	Promoter (≤1kb)	low	1.3 8	-0.32	7.26E -06	AZIN2	non-leukemia cancer types	
cg01597 891	Promoter (≤1kb)	low	0.6 4	-0.23	1.27E -07	I	cited in AML	
cg14640 670	Promoter (1- 2kb)	low	1.3 8	-0.21	7.55E -05	PURA	cited in AML	103
cg07557 423	Promoter (1- 2kb)	low	1.3 8	-0.51	2.65E -05	ATP8A1	non-leukemia cancer types	103
cg17345 569	Promoter (≤1kb)	low	1.3 8	-0.46	1.91E -06	GNMT	cited in AML	
cg27439 456	Promoter (≤1kb)	low	1.1 1	-0.67	2.17E -05	OSCP1	cited in AML	
cg10592 171	Promoter (2- 3kb)	low	0.7 3	-0.39	8.56E -06	DLX4	cited in AML	
cg06248 480	Promoter (≤1kb)	low	1.1 1	-0.27	2.17E -05	LAMB1	cited in AML	
cg19211 800	Promoter (≤1kb)	low	0.8 0	-0.22	3.36E -06	MARCKS	cited in AML	
cg15246 619	Other Intron	low	0.7 3	-0.31	1.84E -05	FGF17	non-AML leukemia types	
cg09681 675	Distal Intergenic	low	1.3 8	-0.40	2.65E -05	ZNF597	non-leukemia cancer types	
cg04995 300	Distal Intergenic	low	0.9 0	-0.29	3.41E -06	KBTBD8	cited in PubMed	
cg24378 136	Promoter (1- 2kb)	low	1.3 8	-0.35	2.06E -06	RNF39	non-leukemia cancer types	
cg03469 082	Promoter (≤1kb)	low	1.3 8	-0.45	1.71E -05	GABRG1	non-AML leukemia types	
cg23196 346	Other Intron	low	0.9 0	-0.42	2.17E -05	KIAA121 7	non-leukemia cancer types	

cg23119 487	Distal Intergenic	low	0.7 3	-0.33	7.59E -06	TMED3	non-leukemia cancer types	
cg05977 462	1st Intron	low	0.7 3	-0.25	2.65E -05	CUX2	non-AML leukemia types	
cg26508 928	Distal Intergenic	high	1.3 8	-0.26	1.66E -06	ZNF519	cited in PubMed	
cg01408 845	Other Intron	high	0.9 0	-0.40	7.90E -06	SARM1	non-leukemia cancer types	5
cg19628 739	Promoter (2- 3kb)	high	0.9 0	-0.43	2.17E -05	PNPLA3	non-AML leukemia types	5
cg16151 494	Distal Intergenic	high	0.9 0	-0.51	2.65E -06	GPBP1	non-leukemia cancer types	5
cg01931 994	Promoter (<=1kb)	high	1.3 8	-0.39	2.55E -05	BRINP2	cited in PubMed	
cg00639 635	Distal Intergenic	high	1.1 1	-0.24	5.52E -05	FUCA2	non-leukemia cancer types	
cg06578 276	Other Intron	high	1.3 8	-0.46	2.65E -05	BAIAP2	non-leukemia cancer types	190
cg09083 945	Promoter (2- 3kb)	high	1.3 8	-0.40	3.26E -04	BAIAP2	non-leukemia cancer types	190
cg08147 563	1st Intron	high	0.9 0	-0.30	5.10E -04	ROBO1	cited in AML	
cg23973 972	Distal Intergenic	high	0.9 0	-0.46	2.32E -05	CNDP2	non-leukemia cancer types	191
cg00059 161	Other Exon	high	0.9 0	-0.36	1.69E -05	SLITRK3	non-leukemia cancer types	191
cg22333 471	Distal Intergenic	high	0.9 0	-0.26	4.61E -05	SDHAF1	non-leukemia cancer types	
cg01116 873	Distal Intergenic	high	1.3 8	-0.43	3.59E -05	RN7SK	non-leukemia cancer types	
cg22366 943	Other Intron	high	0.7 3	-0.40	2.65E -05	NKAIN2	non-AML leukemia types	
cg00036 408	Distal Intergenic	high	1.1 1	-0.42	2.17E -05	TMEM10 5	cited in PubMed	
cg19404 979	Promoter (<=1kb)	high	1.1 1	-0.28	3.31E -04	ELSPBP1	cited in PubMed	
cg14150 727	Promoter (<=1kb)	high	1.1 1	-0.20	4.24E -05	LGR6	non-leukemia cancer types	
cg18766 685	Distal Intergenic	high	0.9 0	-0.23	2.17E -05	SHH	cited in AML	
cg25050 975	Other Intron	high	0.7 3	-0.29	2.65E -05	NXN	non-leukemia cancer types	
cg08988 179	Promoter (<=1kb)	high	1.1 1	-0.23	2.17E -05	C1QL1	non-leukemia cancer types	
cg24336 447	Distal Intergenic	high	1.3 8	-0.50	2.65E -05	GALP	non-AML leukemia types	
cg06322 601	Other Intron	high	1.3 8	-0.23	3.26E -04	RASA4	non-AML leukemia types	
cg02952 295	Other Intron	high	1.3 8	-0.56	3.26E -04	TRPM8	non-AML leukemia types	
cg17398 252	Promoter (<=1kb)	high	0.8 0	-0.31	4.57E -05	BVES	non-leukemia cancer types	
cg05184 519	Other Intron	high	1.3 8	-0.49	4.55E -05	NTM	cited in AML	

cg02198701	3' UTR	high	0.73	-0.37	2.65E-05	IRX6	non-leukemia cancer types	
cg16599143	Promoter (1-2kb)	high	0.73	-0.36	4.47E-04	FMO3	non-AML leukemia types	
cg11633310	Promoter (<=1kb)	high	0.73	-0.23	9.04E-05	MS4A10	non-leukemia cancer types	
cg12650635	Promoter (<=1kb)	high	0.73	-0.23	2.98E-05	AQP2	cited in AML	
cg13691209	Distal Intergenic	high	1.38	-0.42	4.05E-04	PLEKHG4B	cited in PubMed	
cg08432013	Promoter (<=1kb)	high	0.90	-0.36	3.70E-06	DLG2	non-AML leukemia types	86
cg13223682	Distal Intergenic	high	0.90	-0.61	2.17E-05	SP3	cited in AML	86
cg26578156	1st Intron	high	0.90	-0.44	2.17E-05	ZNF423	cited in AML	86
cg13052638	Distal Intergenic	high	0.73	-0.49	2.65E-05	RASSF5	non-AML leukemia types	61
cg02385848	Distal Intergenic	high	0.73	-0.23	2.65E-05	LINC00473	non-leukemia cancer types	174
cg06333800	Other Intron	high	0.73	-0.45	1.02E-06	PRKAG2	non-leukemia cancer types	61
cg06499030	Promoter (1-2kb)	high	0.73	-0.28	9.14E-05	HLA-DQB2	non-leukemia cancer types	174
cg11019923	Promoter (<=1kb)	high	1.11	-0.31	6.91E-05	DJA4	non-leukemia cancer types	
cg25744552	Distal Intergenic	high	1.11	-0.42	2.17E-05	CD2	cited in AML	19
cg15396204	Distal Intergenic	high	1.11	-0.33	1.66E-04	PRMT6	cited in AML	19
cg22830507	Distal Intergenic	high	0.73	-0.30	1.35E-05	TBX3	non-AML leukemia types	
cg18998321	5' UTR	high	0.73	-0.51	2.93E-06	LAMA1	non-AML leukemia types	
cg13968218	Promoter (<=1kb)	high	0.90	-0.28	2.17E-05	ADGRD2	non-leukemia cancer types	
cg27297993	Other Exon	high	1.25	-0.23	4.57E-05	GABBR1	non-leukemia cancer types	
cg23575349	Promoter (1-2kb)	high	1.38	-0.30	2.65E-05	GRM5	non-leukemia cancer types	
cg06001524	Other Intron	high	1.38	-0.25	5.80E-06	STX8	non-leukemia cancer types	
cg22220986	Other Intron	high	1.11	-0.27	2.17E-05	TTC29	non-leukemia cancer types	
cg22142922	Other Intron	high	1.00	-0.26	4.24E-04	ANO1	non-AML leukemia types	
cg23057870	Promoter (<=1kb)	high	1.38	-0.46	2.65E-05	HEY1	cited in AML	
cg05543593	Distal Intergenic	high	0.90	-0.41	4.12E-04	APOB	cited in AML	72
cg25962699	Other Intron	high	0.90	-0.39	2.17E-05	SLC7A14	non-leukemia cancer types	72
cg08166767	Promoter (<=1kb)	high	0.90	-0.33	2.66E-05	LCE2A	never cited	72

cg13441112	1st Intron	high	0.90	-0.33	3.25E-05	CFHR4	non-leukemia cancer types	72
cg01253818	Other Intron	high	0.73	-0.31	1.23E-05	PPP2R2C	non-leukemia cancer types	
cg24296920	Promoter (<=1kb)	high	1.43	-0.20	1.03E-04	ARMS2	non-leukemia cancer types	
cg22234930	Promoter (1-2kb)	high	0.90	-0.42	3.04E-06	PKM	cited in AML	181
cg00736104	Distal Intergenic	high	0.90	-0.36	8.89E-05	SUDS3	non-leukemia cancer types	181
cg07202214	Promoter (<=1kb)	high	0.90	-0.21	2.17E-05	LRRC32	cited in AML	181
cg13026772	1st Intron	high	0.90	-0.23	2.17E-05	PKNOX2	non-AML leukemia types	
cg07302934	Promoter (1-2kb)	high	1.38	-0.30	2.54E-07	GLIS2	cited in AML	
cg21756194	Promoter (1-2kb)	high	1.11	-0.44	2.17E-05	CALCR	non-AML leukemia types	
cg27590787	Distal Intergenic	high	0.73	-0.47	1.59E-06	PNCK	cited in AML	
cg02999224	Promoter (<=1kb)	high	0.90	-0.47	3.73E-07	SLC7A7	cited in AML	62
cg10558233	Distal Intergenic	high	0.90	-0.62	2.17E-05	MIR378D2	non-leukemia cancer types	62
cg13541713	Promoter (2-3kb)	high	0.90	-0.51	1.89E-07	SYNPO2	non-leukemia cancer types	62
cg02147126	Promoter (<=1kb)	high	0.90	-0.42	2.77E-05	AZU1	cited in AML	62
cg05641048	1st Intron	high	1.38	-0.37	3.73E-05	GCNT3	non-leukemia cancer types	
cg06427176	Distal Intergenic	high	0.80	-0.21	1.81E-05	ADAMTS2	cited in AML	
cg15843496	Promoter (<=1kb)	high	1.38	-0.21	1.18E-05	OR11H12	never cited	
cg21122370	Promoter (<=1kb)	high	0.73	-0.39	2.65E-05	SLIT3	cited in AML	
cg03495053	Other Exon	high	1.25	-0.29	4.57E-05	THBS2	non-AML leukemia types	
cg12910797	Promoter (<=1kb)	high	1.11	-0.75	2.17E-05	HOXB3	cited in AML	199
cg22053945	Promoter (<=1kb)	high	1.11	-0.71	2.17E-05	HOXB3	cited in AML	199
cg26342141	Distal Intergenic	high	0.89	-0.25	1.61E-05	MIR2113	non-leukemia cancer types	
cg19052164	Distal Intergenic	high	0.73	-0.34	1.09E-04	PLEKHG4B	cited in PubMed	
cg26256521	Distal Intergenic	high	1.25	-0.24	6.21E-05	MIR4710	never cited	
cg05905844	Distal Intergenic	high	1.11	-0.36	5.59E-06	CHRM2	non-leukemia cancer types	
cg00306893	Distal Intergenic	high	1.57	-0.33	6.28E-05	MECOM	cited in AML	
cg08548882	1st Intron	high	1.11	-0.42	2.17E-05	PLEKHG1	non-leukemia cancer types	84

cg23908019	Other Exon	high	1.11	-0.32	2.17E-05	OCA2	non-leukemia cancer types	84
cg13139361	Distal Intergenic	high	1.38	-0.31	5.23E-05	C1D	non-leukemia cancer types	
cg26492744	Promoter (2-3kb)	high	0.73	-0.35	1.01E-05	EFNB1	cited in AML	
cg14408356	Other Intron	high	1.57	-0.22	6.28E-05	DTX1	non-AML leukemia types	
cg22152605	Promoter (1-2kb)	high	1.11	-0.49	2.17E-05	FPR1	cited in AML	
cg26681975	Promoter (<=1kb)	high	1.38	-0.30	1.24E-04	PNPLA1	non-AML leukemia types	
cg00683788	Promoter (<=1kb)	high	1.11	-0.29	2.17E-05	PDYN	non-leukemia cancer types	
cg21943117	Distal Intergenic	high	0.73	-0.24	2.30E-05	ACTRT2	cited in PubMed	
cg07147383	Promoter (2-3kb)	high	1.38	-0.39	5.88E-07	FSCN2	non-leukemia cancer types	277
cg17819250	Distal Intergenic	high	1.38	-0.38	1.85E-05	RN7SK	non-leukemia cancer types	277
cg12512337	Distal Intergenic	high	1.38	-0.24	2.65E-05	GSX1	non-leukemia cancer types	277
cg08577913	Promoter (<=1kb)	high	1.38	-0.31	2.65E-05	TRIM21	cited in AML	
cg12630277	Promoter (<=1kb)	high	1.38	-0.28	6.90E-06	GJD4	cited in PubMed	
cg26090020	Promoter (2-3kb)	high	0.64	-0.29	5.75E-04	C17orf102	never cited	132
cg20043105	3' UTR	high	0.64	-0.25	3.89E-05	LINC01551	cited in PubMed	132
cg14663914	Promoter (<=1kb)	high	1.11	-0.37	1.79E-04	AZU1	cited in AML	51
cg12249234	1st Intron	high	1.11	-0.47	2.17E-05	KSR1	cited in AML	51
cg15697257	Promoter (<=1kb)	high	1.11	-0.36	2.17E-05	SYNPO	non-AML leukemia types	51
cg05876069	Promoter (<=1kb)	high	1.11	-0.48	2.17E-05	SYNPO	non-AML leukemia types	51
cg16643542	Promoter (<=1kb)	high	1.11	-0.38	1.45E-05	AZU1	cited in AML	51
cg15610437	Promoter (<=1kb)	high	1.11	-0.36	3.97E-05	AZU1	cited in AML	51
cg11119767	Other Intron	high	1.11	-0.42	2.17E-05	MAP3K20	non-leukemia cancer types	51
cg00426709	Distal Intergenic	high	0.73	-0.27	3.26E-04	PRDM13	non-leukemia cancer types	
cg24693341	3' UTR	high	1.38	-0.38	2.97E-05	PHOX2B	non-AML leukemia types	
cg16708938	Downstream (<=300)	high	1.38	-0.30	2.33E-05	SIK1	cited in AML	
cg01446692	Promoter (<=1kb)	high	1.38	-0.50	1.02E-04	CER1	non-leukemia cancer types	33
cg17504164	Distal Intergenic	high	1.38	-0.48	2.65E-05	ADGRL4	non-leukemia cancer types	33

cg11560431	Other Intron	high	1.38	-0.44	2.65E-05	SLC22A23	non-leukemia cancer types	33
cg20776947	Promoter (2-3kb)	high	1.38	-0.37	4.77E-06	P2RX2	non-leukemia cancer types	33
cg24004178	Distal Intergenic	high	0.73	-0.25	5.82E-06	TR	cited in AML	
cg23122650	1st Intron	high	1.38	-0.44	5.56E-07	COBL	non-AML leukemia types	
cg26765567	Promoter (2-3kb)	high	0.90	-0.43	6.37E-05	FGF4	cited in AML	
cg07637239	Promoter (<=1kb)	high	1.38	-0.33	2.65E-05	KCNK18	non-AML leukemia types	
cg09406107	Distal Intergenic	high	1.38	-0.37	2.15E-05	AGAP1	non-AML leukemia types	1
cg14539466	Promoter (<=1kb)	high	1.38	-0.47	2.65E-05	MPDZ	non-AML leukemia types	1
cg07336872	Distal Intergenic	high	1.38	-0.40	2.65E-05	ULBP3	cited in AML	1
cg03145200	Promoter (<=1kb)	high	1.38	-0.56	2.65E-05	IL21R	cited in AML	1
cg14750475	Other Intron	high	1.38	-0.32	2.90E-06	RRAS	cited in AML	1
cg04940329	Promoter (<=1kb)	high	1.38	-0.51	1.19E-08	KRT23	non-leukemia cancer types	1
cg24720967	Distal Intergenic	high	1.38	-0.36	2.65E-05	RHOT1	non-leukemia cancer types	1
cg27260684	Promoter (2-3kb)	high	1.38	-0.52	2.65E-05	KIAA0513	non-leukemia cancer types	1
cg04118102	Distal Intergenic	high	1.38	-0.40	2.65E-05	ADORA2B	non-leukemia cancer types	1
cg04571189	Distal Intergenic	high	1.38	-0.47	1.46E-06	ODC1	cited in AML	1
cg18915156	Distal Intergenic	high	1.38	-0.46	4.42E-06	LRRC75A	cited in AML	1
cg15690511	Promoter (<=1kb)	high	1.38	-0.37	9.67E-06	OR4C12	non-leukemia cancer types	1
cg18236066	Other Intron	high	1.38	-0.43	7.15E-06	RPH3A	non-leukemia cancer types	1
cg12380764	Promoter (1-2kb)	high	1.38	-0.37	3.51E-06	IL19	non-AML leukemia types	1
cg23866916	1st Intron	high	1.38	-0.43	2.65E-05	SBNO2	non-AML leukemia types	1
cg27541604	Promoter (<=1kb)	high	1.38	-0.55	2.65E-05	AIM2	cited in AML	1
cg06244240	Distal Intergenic	high	1.38	-0.36	1.16E-06	METRNL	non-leukemia cancer types	1
cg21083556	Promoter (2-3kb)	high	1.38	-0.26	1.27E-07	ADSSL1	non-AML leukemia types	1
cg03625911	Promoter (<=1kb)	high	1.38	-0.44	4.04E-08	CHI3L1	cited in AML	1
cg12458039	Other Intron	high	1.38	-0.48	3.26E-04	FAM20C	cited in AML	1
cg17085688	Other Exon	high	1.38	-0.62	2.65E-05	GNGT1	non-leukemia cancer types	1

cg18022554	1st Intron	high	1.38	-0.30	2.65E-05	HCN4	non-leukemia cancer types	1
cg11145776	Promoter (<=1kb)	high	1.38	-0.51	1.05E-06	SLC6A12	non-leukemia cancer types	1
cg11806633	1st Intron	high	1.38	-0.49	2.65E-05	ARHGEF10L	non-leukemia cancer types	1
cg27119904	Other Intron	high	1.38	-0.34	5.82E-05	RASA3	cited in AML	1
cg03774957	Distal Intergenic	high	1.38	-0.58	2.65E-05	PCDH1	cited in AML	1
cg21856784	Promoter (<=1kb)	high	1.38	-0.50	2.65E-05	TRIM15	non-AML leukemia types	1
cg15978561	Other Intron	high	1.38	-0.61	2.65E-05	HDAC4	cited in AML	1
cg23313963	Other Exon	high	1.38	-0.30	2.65E-05	TNXB	non-AML leukemia types	1
cg15102179	Downstream (<=300)	high	1.38	-0.30	9.48E-05	P1L4	non-AML leukemia types	1
cg00411072	Promoter (1-2kb)	high	1.38	-0.66	2.65E-05	HOXB3	cited in AML	1
cg21551253	Distal Intergenic	high	1.38	-0.53	2.65E-05	ADGRD1	cited in AML	1
cg03833794	5' UTR	high	1.38	-0.68	2.65E-05	SGSH	non-leukemia cancer types	1
cg16522250	Other Intron	high	1.38	-0.39	2.65E-05	CNTN6	non-leukemia cancer types	1
cg12806681	Other Intron	high	1.38	-0.46	2.65E-05	AHRR	non-AML leukemia types	1
cg07127883	Distal Intergenic	high	1.38	-0.32	2.65E-05	SHQ1	non-AML leukemia types	1
cg02226672	Other Intron	high	1.38	-0.35	1.94E-06	SMPD3	cited in AML	1
cg01058360	Other Intron	high	1.38	-0.68	2.65E-05	PRKAG2	non-leukemia cancer types	1
cg24490227	Distal Intergenic	high	1.38	-0.54	2.65E-05	JAM3	cited in AML	1
cg00114012	Promoter (1-2kb)	high	1.38	-0.34	6.55E-08	SLC2A8	non-leukemia cancer types	1
cg00864684	1st Intron	high	1.38	-0.40	2.65E-05	CHST15	non-leukemia cancer types	1
cg25011257	Promoter (<=1kb)	high	1.38	-0.34	5.80E-05	TH	cited in AML	1
cg00697095	Promoter (<=1kb)	high	1.38	-0.42	2.65E-05	GRB7	non-AML leukemia types	1
cg17400947	Promoter (2-3kb)	high	1.38	-0.46	2.65E-05	GALNT18	cited in PubMed	1
cg23312375	Other Intron	high	1.38	-0.49	2.65E-05	RASA3	cited in AML	1
cg03991871	Other Intron	high	1.38	-0.55	2.65E-05	AHRR	non-AML leukemia types	1
cg08136806	Promoter (<=1kb)	high	1.38	-0.58	2.65E-05	KRT6C	non-leukemia cancer types	1
cg08105471	Other Intron	high	1.38	-0.29	4.33E-06	CNTN3	non-AML leukemia types	1

cg04637 264	Distal Intergenic	high	1.3 8	-0.53	2.65E -05	WISP3	non-leukemia cancer types	1
cg15646 543	3' UTR	high	1.3 8	-0.63	2.65E -05	PCDH1	cited in AML	1
cg05178 291	Promoter (≤1kb)	high	1.3 8	-0.24	2.19E -06	SAA1	cited in AML	1
cg00667 298	Other Intron	high	1.3 8	-0.45	3.02E -07	GABBR1	non-leukemia cancer types	1
cg15072 976	Promoter (≤1kb)	high	1.3 8	-0.43	2.39E -07	GAL3ST2	non-leukemia cancer types	1
cg00540 067	Promoter (1- 2kb)	high	1.3 8	-0.36	1.37E -06	KLF15	non-AML leukemia types	1
cg04843 555	Distal Intergenic	high	1.3 8	-0.45	2.65E -05	RN7SK	non-leukemia cancer types	1
cg07409 200	Promoter (1- 2kb)	high	1.3 8	-0.36	5.28E -07	FAM216B	never cited	1
cg22425 467	Promoter (≤1kb)	high	1.3 8	-0.45	7.88E -08	TRIM15	non-AML leukemia types	1
cg08735 550	3' UTR	high	1.3 8	-0.47	2.65E -05	RGS11	non-leukemia cancer types	1
cg26857 521	Distal Intergenic	high	1.3 8	-0.33	7.70E -04	PEX10	cited in PubMed	1
cg16704 797	Other Intron	high	1.3 8	-0.41	2.65E -05	KLHL29	non-leukemia cancer types	1
cg08980 014	Promoter (≤1kb)	high	1.3 8	-0.64	2.65E -05	ARHGEF 10	non-leukemia cancer types	1
cg00720 829	Promoter (≤1kb)	high	1.3 8	-0.51	2.65E -05	TRIM15	non-AML leukemia types	1
cg22779 896	Distal Intergenic	high	1.3 8	-0.42	2.65E -05	KIAA023 2	cited in PubMed	1
cg05701 418	Promoter (≤1kb)	high	1.3 8	-0.56	2.65E -05	TRIM15	non-AML leukemia types	1
cg14039 246	Other Intron	high	1.3 8	-0.45	9.90E -06	ECHDC2	non-leukemia cancer types	1
cg01604 946	Other Intron	high	1.3 8	-0.55	2.65E -05	SH3TC2	non-AML leukemia types	1
cg05870 586	Other Intron	high	1.3 8	-0.58	2.65E -05	HDAC4	cited in AML	1
cg08190 125	Other Intron	high	1.3 8	-0.44	2.65E -05	IGHG1	non-AML leukemia types	1
cg02570 920	Distal Intergenic	high	1.3 8	-0.37	2.65E -05	RN7SK	non-leukemia cancer types	1
cg17023 856	Promoter (≤1kb)	high	1.3 8	-0.37	3.45E -06	PRKCZ	non-AML leukemia types	1
cg11691 844	1st Intron	high	1.3 8	-0.40	2.65E -05	SYTL2	non-leukemia cancer types	1
cg03608 093	Other Intron	high	1.3 8	-0.46	2.65E -05	DEAF1	non-AML leukemia types	1
cg16603 012	Promoter (1- 2kb)	high	1.3 8	-0.61	2.65E -05	APRT	cited in AML	1
cg27152 299	Promoter (≤1kb)	high	1.3 8	-0.47	5.16E -07	KRTAP5- 7	non-leukemia cancer types	1
cg08422 803	Promoter (≤1kb)	high	1.3 8	-0.34	1.09E -04	ITGB2	cited in AML	1

cg25627098	Promoter (<=1kb)	high	1.38	-0.28	2.65E-05	SPEM2	never cited	1
cg23726831	Other Intron	high	1.38	-0.35	2.65E-05	SLC4A4	non-AML leukemia types	1
cg10135708	Promoter (<=1kb)	high	1.38	-0.42	1.39E-07	UCN2	non-AML leukemia types	1
cg16928335	Promoter (<=1kb)	high	1.38	-0.37	2.16E-06	SH2D1A	cited in AML	1
cg08936645	Other Intron	high	1.38	-0.54	2.65E-05	TBC1D1	non-leukemia cancer types	1
cg26120971	Distal Intergenic	high	1.38	-0.27	5.61E-09	MED30	non-leukemia cancer types	1
cg11800608	Promoter (<=1kb)	high	1.38	-0.54	3.47E-07	C20orf85	non-leukemia cancer types	1
cg16596317	Other Intron	high	1.38	-0.53	1.04E-07	BCL10	cited in AML	1
cg13557773	Other Intron	high	1.38	-0.50	2.65E-05	RASA3	cited in AML	1
cg22733910	Promoter (<=1kb)	high	1.38	-0.32	2.65E-05	PDE4B	non-AML leukemia types	34
cg13525397	Other Intron	high	1.38	-0.34	1.12E-06	HCG22	non-leukemia cancer types	34
cg19972648	Promoter (<=1kb)	high	1.38	-0.43	2.65E-05	KCNMA1	cited in AML	34
cg03604424	1st Intron	high	1.38	-0.36	2.90E-05	TRIO	cited in AML	34
cg08549011	Other Intron	high	1.38	-0.54	2.65E-05	FSTL4	non-leukemia cancer types	34
cg12690978	Other Intron	high	0.64	-0.31	2.13E-05	MFAP5	non-leukemia cancer types	
cg00017842	Distal Intergenic	high	0.90	-0.33	4.09E-05	EN1	cited in AML	43
cg14660328	Distal Intergenic	high	0.90	-0.34	1.58E-05	TENM4	non-leukemia cancer types	43
cg03564793	3' UTR	high	1.38	-0.51	2.65E-05	COL12A1	cited in AML	129
cg22778788	Promoter (1-2kb)	high	1.38	-0.36	2.65E-05	NKX2-3	cited in AML	129
cg07798610	Promoter (<=1kb)	high	0.73	-0.59	2.65E-05	PRSS21	non-AML leukemia types	
cg05303280	Promoter (1-2kb)	high	1.11	-0.27	7.45E-05	GLDN	non-leukemia cancer types	
cg08814947	Promoter (<=1kb)	high	1.38	-0.34	4.40E-07	KLK11	non-leukemia cancer types	
cg03233426	Promoter (<=1kb)	high	1.38	-0.42	2.73E-06	TMEM100	non-leukemia cancer types	
cg22129183	1st Intron	high	0.90	-0.32	1.76E-06	EVA1A	non-leukemia cancer types	70
cg10909152	Promoter (<=1kb)	high	0.90	-0.50	2.17E-05	SIVA1	cited in AML	70
cg23026228	Distal Intergenic	high	0.73	-0.29	1.20E-05	FNDC1	non-leukemia cancer types	125
cg04285362	Other Intron	high	0.73	-0.35	4.36E-05	SNORA63	never cited	125

cg02558625	1st Intron	high	0.73	-0.51	2.65E-05	COL4A1	non-AML leukemia types	125
cg21006686	Promoter (<=1kb)	high	1.11	-0.40	5.57E-05	NOS1	cited in AML	
cg02855850	Promoter (1-2kb)	high	1.38	-0.42	2.40E-06	IVL	cited in AML	37
cg00870837	Distal Intergenic	high	1.38	-0.32	2.65E-05	C1QTNF8	non-leukemia cancer types	37
cg09418852	Distal Intergenic	high	1.38	-0.39	2.65E-05	SQOR	non-leukemia cancer types	37
cg13805537	1st Intron	high	1.38	-0.31	2.65E-05	FAM102A	non-leukemia cancer types	37
cg23121615	Distal Intergenic	high	1.11	-0.27	1.28E-05	C8orf31	non-leukemia cancer types	
cg19743254	1st Intron	high	1.38	-0.48	2.65E-05	OPCML	non-leukemia cancer types	
cg23304023	Promoter (2-3kb)	high	1.38	-0.44	1.23E-05	TACC2	cited in AML	
cg24768113	Distal Intergenic	high	1.11	-0.35	5.22E-04	FIBIN	non-leukemia cancer types	
cg23345292	Promoter (<=1kb)	high	0.73	-0.31	3.37E-06	LOXHD1	non-leukemia cancer types	242
cg06728135	Distal Intergenic	high	0.73	-0.36	1.28E-06	IRX2	cited in AML	242
cg25242423	Promoter (<=1kb)	high	0.73	-0.28	4.20E-06	RTBDN	non-leukemia cancer types	
cg16451324	Promoter (<=1kb)	high	1.38	-0.37	7.14E-05	PDE1A	non-AML leukemia types	44
cg08661007	Promoter (<=1kb)	high	1.38	-0.31	6.20E-06	ROBO1	cited in AML	44
cg15534052	Distal Intergenic	high	1.43	-0.22	1.03E-04	MC2R	non-AML leukemia types	
cg17524162	Other Intron	high	0.73	-0.52	2.65E-05	HLA-DQA2	non-leukemia cancer types	
cg20016673	Other Exon	high	0.64	-0.31	6.28E-05	NTNG1	non-leukemia cancer types	
cg11747462	1st Intron	high	1.38	-0.31	2.65E-05	OPCML	non-leukemia cancer types	
cg25784280	Promoter (<=1kb)	high	0.73	-0.58	2.65E-05	DT	non-leukemia cancer types	97
cg23670353	Other Intron	high	0.73	-0.52	2.65E-05	FGGY	non-leukemia cancer types	97
cg13196652	1st Intron	high	1.11	-0.22	2.17E-05	ADCY8	non-leukemia cancer types	192
cg18746826	Other Intron	high	1.11	-0.32	1.47E-06	SCARA5	non-leukemia cancer types	192
cg10085326	Promoter (<=1kb)	high	0.73	-0.40	2.65E-05	MMP13	non-AML leukemia types	
cg08036172	Other Intron	high	0.90	-0.42	2.17E-05	MGLL	non-leukemia cancer types	14
cg07345515	Other Intron	high	0.90	-0.52	2.17E-05	TNXB	non-AML leukemia types	14
cg21335375	Promoter (<=1kb)	high	0.90	-0.29	2.17E-05	CCL3	cited in AML	14

cg12707346	Distal Intergenic	high	0.90	-0.29	1.72E-04	RASSF3	non-AML leukemia types	14
cg07470708	Promoter (2-3kb)	high	0.90	-0.41	2.17E-05	NTF4	non-AML leukemia types	14
cg04348689	1st Intron	high	0.90	-0.57	2.17E-05	BTBD7	non-leukemia cancer types	14
cg00275828	Promoter (<=1kb)	high	0.90	-0.37	2.84E-06	KRTAP2-4	non-leukemia cancer types	14
cg04751839	Promoter (1-2kb)	high	0.90	-0.30	2.15E-04	GRTP1	non-AML leukemia types	
cg16287284	Other Intron	high	1.43	-0.31	7.02E-04	SLC5A8	cited in AML	
cg08616516	Promoter (<=1kb)	high	1.00	-0.24	2.12E-04	GRM5	non-leukemia cancer types	
cg17878899	Promoter (<=1kb)	high	0.90	-0.36	2.17E-05	KIAA1210	non-leukemia cancer types	232
cg02709924	Promoter (<=1kb)	high	0.90	-0.38	5.63E-06	NRG1	cited in AML	232
cg00573887	Distal Intergenic	high	0.73	-0.31	3.34E-08	RN7SK	non-leukemia cancer types	176
cg05807489	Distal Intergenic	high	0.73	-0.37	3.18E-05	SOX8	non-leukemia cancer types	176
cg18052106	Distal Intergenic	high	0.73	-0.46	1.82E-06	EPHA7	cited in AML	58
cg27535687	Other Intron	high	0.73	-0.40	1.84E-06	CPLX4	non-leukemia cancer types	58
cg01982835	Promoter (<=1kb)	high	0.73	-0.49	6.01E-06	DLGAP4	non-leukemia cancer types	58
cg25673598	Promoter (2-3kb)	high	1.11	-0.39	2.17E-05	EPN2	non-leukemia cancer types	
cg14387312	Distal Intergenic	high	1.11	-0.48	2.17E-05	RASL11B	non-AML leukemia types	138
cg07015886	Promoter (<=1kb)	high	1.11	-0.41	2.17E-05	TLR5	cited in AML	138
cg08027265	3' UTR	high	1.11	-0.34	1.26E-06	NUDT1	cited in AML	138
cg12935818	Promoter (<=1kb)	high	1.11	-0.38	6.45E-07	RAB17	non-leukemia cancer types	138
cg09578829	Other Intron	high	1.11	-0.35	2.17E-05	TBC1D1	non-leukemia cancer types	138
cg07236190	Promoter (<=1kb)	high	1.11	-0.34	2.51E-06	AMDHD1	non-leukemia cancer types	138
cg10769201	Other Intron	high	1.11	-0.38	9.36E-06	VWA3B	cited in PubMed	138
cg24997585	3' UTR	high	1.11	-0.32	2.17E-05	GABRB3	non-AML leukemia types	138
cg23030159	Distal Intergenic	high	1.11	-0.27	2.17E-05	UNCX	cited in AML	138
cg10142837	Distal Intergenic	high	0.90	-0.36	1.51E-05	PITX2	cited in AML	
cg18432441	1st Intron	high	0.90	-0.56	2.17E-05	TUB	non-AML leukemia types	71
cg10320783	Other Intron	high	0.90	-0.39	2.17E-05	CADM1	cited in AML	71

cg21318 380	3' UTR	high	0.9 0	-0.24	2.92E -04	KCNG1	cited in PubMed	71
cg26346 796	Other Intron	high	0.9 0	-0.41	4.79E -06	TNXB	non-AML leukemia types	71
cg09490 523	Distal Intergenic	high	1.1 1	-0.40	4.49E -05	BCAR1	cited in AML	
cg08525 713	Distal Intergenic	high	1.1 1	-0.50	2.17E -05	DH5	non-leukemia cancer types	38
cg24102 792	Distal Intergenic	high	1.1 1	-0.23	2.17E -05	TEX29	cited in PubMed	38
cg01181 681	Promoter (≤1kb)	high	1.1 1	-0.39	2.17E -05	TLR5	cited in AML	38
cg23244 948	Distal Intergenic	high	1.1 1	-0.24	2.17E -05	RPL10L	non-leukemia cancer types	38
cg27183 007	Promoter (≤1kb)	high	1.1 1	-0.29	5.27E -06	ZPBP	non-leukemia cancer types	38
cg17413 460	3' UTR	high	1.1 1	-0.40	1.18E -04	HAL	cited in AML	38
cg13720 705	Distal Intergenic	high	0.9 0	-0.46	2.17E -05	MTRNR2 L7	never cited	
cg10888 138	Distal Intergenic	high	1.1 1	-0.21	1.35E -05	SHISA2	non-leukemia cancer types	
cg18194 850	1st Intron	high	0.9 0	-0.37	2.17E -05	SUCLG2	non-leukemia cancer types	98
cg17242 362	Other Intron	high	0.9 0	-0.43	2.27E -07	ATXN7L1	non-leukemia cancer types	98
cg23878 404	Promoter (≤1kb)	high	0.9 0	-0.48	1.09E -05	KRTAP1- 5	non-leukemia cancer types	98
cg09268 963	3' UTR	high	0.9 0	-0.25	8.77E -05	SYNE2	cited in AML	98
cg01252 455	Other Intron	high	0.9 0	-0.32	2.33E -07	CPLX2	non-leukemia cancer types	98
cg25060 339	Promoter (2- 3kb)	high	1.3 8	-0.34	2.03E -04	MIR203B	cited in PubMed	108
cg23696 618	Promoter (≤1kb)	high	1.3 8	-0.21	2.65E -05	SERPINB 10	cited in AML	108
cg26914 334	Other Intron	high	1.3 8	-0.28	2.06E -06	GRIK4	cited in AML	108
cg03229 996	Promoter (2- 3kb)	high	0.8 0	-0.22	1.23E -05	ZNF469	non-leukemia cancer types	
cg16179 969	Distal Intergenic	high	1.0 0	-0.23	2.06E -04	ACAN	cited in AML	
cg07175 433	Promoter (2- 3kb)	high	0.7 3	-0.40	7.55E -05	KCNIP4	non-AML leukemia types	
cg07940 804	Promoter (≤1kb)	high	0.7 3	-0.37	1.81E -05	ACTRT1	non-leukemia cancer types	55
cg15731 296	Promoter (≤1kb)	high	0.7 3	-0.43	5.40E -06	PRRG3	non-leukemia cancer types	55
cg09718 371	Other Intron	high	1.3 8	-0.34	2.65E -05	JAKMIP3	cited in PubMed	
cg22027 471	Promoter (≤1kb)	high	1.2 5	-0.25	4.57E -05	SLC5A4	non-leukemia cancer types	
cg10451 200	Promoter (≤1kb)	high	1.2 5	-0.26	4.57E -05	GRM5	non-leukemia cancer types	162

cg19526076	Distal Intergenic	high	1.25	-0.25	2.07E-04	KLF12	non-AML leukemia types	162
cg15050865	Promoter (<=1kb)	high	1.11	-0.39	2.17E-05	CDH18	non-leukemia cancer types	
cg15379170	1st Intron	high	1.38	-0.30	7.36E-06	EFHD1	non-leukemia cancer types	
cg03099780	1st Intron	high	0.73	-0.38	8.77E-05	MBNL2	non-leukemia cancer types	
cg08674227	Distal Intergenic	high	1.38	-0.43	1.78E-05	XKRX	cited in PubMed	74
cg01126560	Promoter (<=1kb)	high	1.38	-0.35	2.65E-05	PAXX	non-leukemia cancer types	74
cg00497905	Other Exon	high	1.38	-0.37	2.65E-05	MYO7A	non-leukemia cancer types	74
cg20959965	Distal Intergenic	high	1.38	-0.42	7.80E-06	CYBB	cited in AML	74
cg14410557	Distal Intergenic	high	1.38	-0.31	9.79E-06	C9orf62	never cited	74
cg26651775	Promoter (<=1kb)	high	1.38	-0.59	3.26E-04	METRNL	non-leukemia cancer types	74
cg24860560	Distal Intergenic	high	1.38	-0.35	2.65E-05	MIR4472-1	never cited	74
cg24852442	Other Exon	high	1.38	-0.37	8.87E-07	MYO7A	non-leukemia cancer types	74
cg20860188	1st Intron	high	1.38	-0.58	2.65E-05	KLHL29	non-leukemia cancer types	74
cg10040821	Other Intron	high	1.11	-0.54	2.78E-04	ANKS1B	non-AML leukemia types	9
cg03544781	Distal Intergenic	high	1.11	-0.69	2.17E-05	PDP1	non-AML leukemia types	9
cg25880242	Distal Intergenic	high	1.11	-0.22	2.17E-05	ACTRT2	cited in PubMed	9
cg00840694	Promoter (1-2kb)	high	1.11	-0.33	2.17E-05	MYOM2	non-leukemia cancer types	9
cg20152871	Distal Intergenic	high	1.11	-0.38	4.69E-05	MIR1208	cited in PubMed	9
cg02585931	Promoter (<=1kb)	high	1.11	-0.24	9.71E-07	GALR3	non-leukemia cancer types	9
cg21549497	3' UTR	high	1.11	-0.27	1.37E-07	CRYAA	non-leukemia cancer types	9
cg11068289	Distal Intergenic	high	1.11	-0.60	2.17E-05	CHMP6	non-AML leukemia types	9
cg19091930	Promoter (<=1kb)	high	1.11	-0.51	2.17E-05	LRRC14B	never cited	9
cg13010014	Other Exon	high	1.11	-0.52	2.17E-05	ROBO3	cited in AML	9
cg06291334	Promoter (<=1kb)	high	1.11	-0.34	2.17E-05	SPOP	non-AML leukemia types	9
cg22101045	Distal Intergenic	high	1.11	-0.40	2.17E-05	NUP160	non-AML leukemia types	9
cg18559799	Promoter (1-2kb)	high	1.11	-0.24	4.03E-06	PPY	cited in AML	9
cg21564495	1st Intron	high	1.11	-0.43	1.40E-07	FAM19A5	non-leukemia cancer types	9

cg18778097	Other Exon	high	1.11	-0.37	1.71E-04	NLRP7	non-AML leukemia types	9
cg23057567	Other Intron	high	1.11	-0.45	6.18E-06	PNMA8B	never cited	9
cg10287786	Promoter (1-2kb)	high	1.11	-0.37	8.22E-06	DSCAML1	cited in AML	9
cg26677288	Other Intron	high	1.11	-0.71	2.17E-05	KIF26B	non-leukemia cancer types	9
cg12838168	1st Intron	high	1.11	-0.48	2.17E-05	LRRC15	non-leukemia cancer types	9
cg02886188	Distal Intergenic	high	1.11	-0.52	2.17E-05	DCTD	cited in AML	9
cg14432251	Distal Intergenic	high	1.11	-0.41	2.17E-05	DJB6	non-AML leukemia types	9
cg03333699	Promoter (<=1kb)	high	1.11	-0.40	6.77E-07	ADAP1	non-leukemia cancer types	9
cg19794207	5' UTR	high	1.11	-0.30	1.09E-04	GRIN1	non-leukemia cancer types	9
cg26865084	Distal Intergenic	high	1.11	-0.39	8.59E-07	SMOC2	non-leukemia cancer types	9
cg16726532	Distal Intergenic	high	1.11	-0.27	1.44E-05	AEBP2	cited in AML	9
cg11211263	1st Intron	high	1.11	-0.41	4.27E-07	STUM	non-leukemia cancer types	9
cg09696747	Distal Intergenic	high	1.11	-0.51	2.17E-05	TEX29	cited in PubMed	9
cg16257533	Other Intron	high	1.11	-0.60	2.17E-05	NTM	cited in AML	9
cg00234046	1st Intron	high	1.11	-0.30	1.86E-05	CDH23	non-leukemia cancer types	9
cg00588517	Promoter (<=1kb)	high	1.11	-0.38	3.96E-06	C2	cited in AML	9
cg13491662	Distal Intergenic	high	1.11	-0.27	2.91E-05	C2orf27B	never cited	9
cg00396699	Other Intron	high	1.11	-0.30	2.17E-05	CAC1H	non-AML leukemia types	9
cg15715746	Promoter (<=1kb)	high	1.38	-0.31	2.65E-05	MAGEB2	cited in AML	53
cg08706312	Promoter (<=1kb)	high	1.38	-0.23	2.65E-05	MAGEB1	non-leukemia cancer types	53
cg13183298	Distal Intergenic	high	1.11	-0.32	5.83E-06	PLCH2	non-leukemia cancer types	131
cg02143487	Distal Intergenic	high	1.11	-0.29	2.78E-04	TMEM105	cited in PubMed	131
cg14095048	Distal Intergenic	high	1.11	-0.27	2.17E-05	TMEM211	never cited	200
cg19250417	Promoter (2-3kb)	high	1.11	-0.24	4.11E-07	CRMP1	non-AML leukemia types	200
cg00139681	Distal Intergenic	high	1.11	-0.62	2.17E-05	CCDC71L	cited in PubMed	8
cg05046377	Promoter (<=1kb)	high	1.11	-0.37	2.17E-05	OR51A7	cited in PubMed	8
cg17742099	Other Intron	high	1.11	-0.39	2.17E-05	GABBR1	non-leukemia cancer types	8

cg10819 238	1st Intron	high	1.1 1	-0.50	1.05E -05	SBNO2	non-AML leukemia types	8
cg09284 275	Other Intron	high	1.1 1	-0.37	6.63E -05	MYH11	cited in AML	8
cg10818 566	Other Intron	high	1.1 1	-0.43	1.08E -07	TTC7A	non-leukemia cancer types	8
cg20063 450	Promoter (2- 3kb)	high	1.1 1	-0.53	6.27E -08	KRT32	non-leukemia cancer types	8
cg15230 985	Other Intron	high	1.1 1	-0.49	2.17E -05	RPTOR	cited in AML	8
cg27310 092	Distal Intergenic	high	1.1 1	-0.41	2.17E -05	S100A10	cited in AML	8
cg26928 972	Promoter (<=1kb)	high	1.1 1	-0.56	2.17E -05	CSTA	non-leukemia cancer types	8
cg11939 346	Promoter (<=1kb)	high	1.1 1	-0.28	2.17E -05	KALRN	non-leukemia cancer types	8
cg06586 713	Promoter (<=1kb)	high	1.1 1	-0.24	2.17E -05	PCLO	non-AML leukemia types	8
cg26925 644	Promoter (<=1kb)	high	1.1 1	-0.64	2.17E -05	PHLDB1	non-leukemia cancer types	8
cg23083 774	Promoter (<=1kb)	high	1.1 1	-0.33	7.35E -06	PLPPR3	cited in PubMed	8
cg01883 046	Distal Intergenic	high	1.1 1	-0.54	2.17E -05	SP3	cited in AML	8
cg14161 165	1st Intron	high	1.1 1	-0.30	2.17E -05	ASTN2	non-leukemia cancer types	8
cg14187 687	Other Intron	high	1.1 1	-0.58	2.17E -05	SAMD4A	non-leukemia cancer types	8
cg04949 225	1st Intron	high	1.1 1	-0.62	2.17E -05	DLEU1	cited in AML	8
cg16452 651	Promoter (2- 3kb)	high	1.1 1	-0.47	6.66E -07	ITSN1	non-leukemia cancer types	8
cg02258 846	3' UTR	high	1.1 1	-0.53	6.90E -08	SCML4	non-AML leukemia types	8
cg12866 960	Other Intron	high	1.1 1	-0.51	3.74E -07	IRAK3	cited in AML	8
cg24341 657	Promoter (2- 3kb)	high	1.1 1	-0.35	2.17E -05	DOK7	cited in AML	8
cg22009 908	Other Intron	high	1.1 1	-0.40	2.17E -05	EF5	non-AML leukemia types	8
cg00078 513	Promoter (<=1kb)	high	1.1 1	-0.24	2.90E -05	SNORD11 5-40	never cited	8
cg14457 875	Promoter (1- 2kb)	high	1.1 1	-0.26	8.15E -06	MUC21	non-leukemia cancer types	8
cg14462 670	Distal Intergenic	high	1.1 1	-0.43	2.17E -05	CRK	cited in AML	8
cg21243 944	Distal Intergenic	high	1.1 1	-0.57	2.93E -07	RNU6AT AC	cited in PubMed	8
cg02098 075	Other Exon	high	1.1 1	-0.69	2.17E -05	EFCAB1	non-leukemia cancer types	8
cg19984 911	Promoter (<=1kb)	high	1.1 1	-0.70	2.17E -05	SYNPO	non-AML leukemia types	8
cg07549 474	Promoter (<=1kb)	high	1.1 1	-0.33	3.66E -05	MAGEC2	non-AML leukemia types	8

cg06172 871	Promoter (≤1kb)	high	1.1 1	-0.54	8.51E -08	HP	cited in AML	8
cg00987 534	Distal Intergenic	high	1.1 1	-0.60	2.17E -05	CLDN3	non-leukemia cancer types	8
cg14022 913	Promoter (1- 2kb)	high	1.1 1	-0.60	2.17E -05	NEIL3	non-leukemia cancer types	8
cg15167 202	Promoter (≤1kb)	high	1.1 1	-0.48	2.17E -05	SYNPO	non-AML leukemia types	8
cg09824 603	Distal Intergenic	high	1.1 1	-0.41	1.35E -05	IGFBP3	cited in AML	8
cg27268 708	Distal Intergenic	high	1.1 1	-0.60	2.17E -05	HS3ST1	non-AML leukemia types	8
cg01579 636	Promoter (≤1kb)	high	1.1 1	-0.26	9.10E -06	IL17B	cited in AML	8
cg12738 008	Other Exon	high	1.1 1	-0.52	2.17E -05	MYOM2	non-leukemia cancer types	8
cg24955 682	Other Intron	high	1.1 1	-0.27	2.17E -05	HLA-G	cited in AML	8
cg06578 434	1st Intron	high	1.1 1	-0.49	1.50E -09	SBNO2	non-AML leukemia types	8
cg25941 151	Promoter (≤1kb)	high	1.1 1	-0.39	8.65E -06	TYR	cited in AML	8
cg09648 454	Other Intron	high	1.1 1	-0.56	2.17E -05	ABCC12	non-leukemia cancer types	8
cg13575 139	Distal Intergenic	high	1.1 1	-0.46	2.17E -05	KCTD6	non-leukemia cancer types	8
cg17631 184	Promoter (≤1kb)	high	1.1 1	-0.64	2.17E -05	CTTN	non-AML leukemia types	8
cg17943 672	Other Intron	high	1.1 1	-0.53	8.91E -08	TCAIM	cited in PubMed	8
cg26657 086	Promoter (1- 2kb)	high	1.1 1	-0.48	1.23E -05	BTNL2	non-leukemia cancer types	8
cg03579 045	Other Intron	high	1.1 1	-0.37	6.65E -05	GATA4	cited in AML	8
cg21448 927	Distal Intergenic	high	1.1 1	-0.25	5.76E -06	FNDC1	non-leukemia cancer types	8
cg23482 746	Other Intron	high	1.1 1	-0.34	4.30E -06	TMEM26 6	cited in PubMed	8
cg02961 101	Distal Intergenic	high	1.1 1	-0.50	2.17E -05	SIAH1	cited in AML	8
cg13694 680	Promoter (1- 2kb)	high	1.1 1	-0.35	1.48E -05	FIBIN	non-leukemia cancer types	8
cg26415 633	Promoter (≤1kb)	high	1.1 1	-0.30	1.96E -05	KLK1	non-AML leukemia types	8
cg02809 611	Promoter (≤1kb)	high	1.1 1	-0.44	3.09E -06	OR1F1	non-leukemia cancer types	8
cg19027 636	Promoter (1- 2kb)	high	1.1 1	-0.29	2.17E -05	NSD1	cited in AML	8
cg25113 360	Promoter (≤1kb)	high	0.7 3	-0.32	2.65E -05	GRIK4	cited in AML	99
cg05556 461	Distal Intergenic	high	0.7 3	-0.36	2.65E -05	CARTPT	non-leukemia cancer types	99
cg19139 729	Promoter (≤1kb)	high	1.3 8	-0.32	2.65E -05	SULT2A1	non-leukemia cancer types	

cg24822 127	Promoter (≤1kb)	high	1.1 1	-0.47	1.88E -07	FATE1	non-leukemia cancer types	
cg07776 049	Distal Intergenic	high	1.3 8	-0.33	5.78E -05	SNTG2	cited in PubMed	124
cg24640 101	Promoter (≤1kb)	high	1.3 8	-0.21	3.03E -05	SNORD11 5-37	never cited	124
cg26958 838	Distal Intergenic	high	1.5 7	-0.30	6.28E -05	IRX2	cited in AML	
cg12669 395	Promoter (1- 2kb)	high	1.3 8	-0.40	4.77E -06	DDR1	cited in AML	130
cg00583 426	Other Intron	high	1.3 8	-0.37	2.65E -05	CAC1H	non-AML leukemia types	130
cg19175 742	Promoter (≤1kb)	high	1.3 8	-0.32	6.64E -06	AP3B2	non-leukemia cancer types	130
cg08747 676	Promoter (1- 2kb)	high	1.1 1	-0.32	3.46E -05	C1QTNF8	non-leukemia cancer types	
cg16966 496	Distal Intergenic	high	1.3 8	-0.42	1.97E -06	TBX3	non-AML leukemia types	92
cg01998 808	Distal Intergenic	high	1.3 8	-0.22	1.77E -05	LMF1	non-leukemia cancer types	92
cg16034 268	Distal Intergenic	high	1.3 8	-0.34	3.16E -06	SFRP1	cited in AML	92
cg10052 840	Promoter (1- 2kb)	high	1.3 8	-0.34	8.35E -06	SEMA6B	cited in AML	83
cg15597 096	Distal Intergenic	high	1.3 8	-0.40	3.90E -05	CSF3R	cited in AML	83
cg24323 597	Promoter (≤1kb)	high	1.3 8	-0.21	2.65E -05	KALRN	non-leukemia cancer types	83
cg00074 348	Promoter (1- 2kb)	high	1.3 8	-0.30	1.49E -05	APLNR	cited in AML	29
cg21591 938	Distal Intergenic	high	1.3 8	-0.45	2.65E -05	FAR2	cited in PubMed	29
cg17823 175	Promoter (≤1kb)	high	1.3 8	-0.40	1.77E -05	AZU1	cited in AML	29
cg22620 071	Distal Intergenic	high	1.3 8	-0.49	2.65E -05	YTHDC2	non-leukemia cancer types	29
cg24517 501	Promoter (≤1kb)	high	1.3 8	-0.46	1.62E -05	GFI1	cited in AML	29
cg08625 482	Distal Intergenic	high	1.3 8	-0.40	1.32E -05	NEFL	non-leukemia cancer types	29
cg05294 112	Distal Intergenic	high	1.3 8	-0.41	7.20E -05	SOX1	cited in AML	29
cg09674 502	Promoter (≤1kb)	high	1.3 8	-0.46	2.65E -05	GFI1	cited in AML	29
cg16631 083	1st Intron	high	1.3 8	-0.41	4.76E -08	HUNK	non-leukemia cancer types	29
cg02987 482	1st Intron	high	1.3 8	-0.49	2.65E -05	MLLT1	cited in AML	29
cg01766 941	Promoter (1- 2kb)	high	1.3 8	-0.55	2.65E -05	GFI1	cited in AML	29
cg20689 476	Promoter (1- 2kb)	high	1.3 8	-0.29	1.71E -05	PPP2R2C	non-leukemia cancer types	29
cg18004 847	1st Intron	high	1.3 8	-0.49	2.65E -05	SBNO2	non-AML leukemia types	29

cg04777348	Promoter (<=1kb)	high	1.38	-0.56	2.65E-05	GFI1	cited in AML	29
cg07717083	Other Intron	high	1.38	-0.36	2.01E-05	TNXB	non-AML leukemia types	29
cg18618429	Promoter (<=1kb)	high	1.38	-0.36	2.65E-05	CSTA	non-leukemia cancer types	29
cg09488090	Distal Intergenic	high	1.38	-0.38	2.65E-05	PMFBP1	cited in PubMed	18
cg26394380	Promoter (<=1kb)	high	1.38	-0.32	9.01E-08	SFTPB	non-leukemia cancer types	18
cg16544010	Promoter (<=1kb)	high	1.38	-0.29	3.12E-07	DLK1	cited in AML	18
cg13250566	Distal Intergenic	high	1.38	-0.36	3.44E-05	TUBG2	non-leukemia cancer types	18
cg15060366	Promoter (<=1kb)	high	0.90	-0.47	2.17E-05	PCSK2	non-leukemia cancer types	
cg14561934	Promoter (1-2kb)	high	1.11	-0.40	7.06E-06	FAM171A1	non-leukemia cancer types	
cg00947324	Other Intron	high	1.25	-0.21	4.57E-05	AK7	non-AML leukemia types	
cg26123605	Distal Intergenic	high	1.43	-0.21	1.03E-04	ZIC1	cited in AML	
cg14431020	Other Intron	high	0.89	-0.21	8.23E-05	ELMO1	cited in AML	
cg23749637	Promoter (<=1kb)	high	0.80	-0.31	4.57E-05	NXN	non-leukemia cancer types	
cg07812957	3' UTR	high	0.73	-0.53	2.65E-05	KLF2	cited in AML	25
cg14544831	Promoter (1-2kb)	high	0.73	-0.27	2.65E-05	BCL2	cited in AML	25
cg23009780	Distal Intergenic	high	0.73	-0.38	2.65E-05	ADRA2B	non-leukemia cancer types	25
cg26201596	Distal Intergenic	high	0.73	-0.44	4.67E-06	DIP2C	non-leukemia cancer types	
cg03706086	Distal Intergenic	high	0.73	-0.52	2.65E-05	NCOA2	cited in AML	10
cg01293740	Promoter (2-3kb)	high	0.73	-0.38	2.65E-05	CACNG8	non-leukemia cancer types	10
cg09842053	Promoter (<=1kb)	high	0.73	-0.51	2.65E-05	XDH	non-AML leukemia types	10
cg24764810	Other Intron	high	0.73	-0.36	2.06E-06	HCG22	non-leukemia cancer types	10
cg11228126	Distal Intergenic	high	1.00	-0.23	1.55E-05	NEUROG3	non-AML leukemia types	
cg17919471	Promoter (<=1kb)	high	0.73	-0.26	7.35E-05	XAGE3	non-leukemia cancer types	
cg06729381	Other Intron	high	0.90	-0.48	2.17E-05	SYT7	non-leukemia cancer types	164
cg21878759	Promoter (<=1kb)	high	0.90	-0.39	1.52E-05	LOXHD1	non-leukemia cancer types	164
cg14765834	Other Exon	high	0.90	-0.52	2.17E-05	YBX2	non-leukemia cancer types	101
cg20951266	1st Intron	high	0.90	-0.33	6.88E-06	SMCP	non-leukemia cancer types	101

cg16591659	Distal Intergenic	high	0.90	-0.26	1.13E-07	NPTX1	non-leukemia cancer types	101
cg14962049	Other Intron	high	0.90	-0.30	2.78E-04	PRELID2	non-leukemia cancer types	101
cg26331243	Other Intron	high	0.90	-0.26	1.36E-06	CCDC33	non-leukemia cancer types	
cg14520512	Promoter (<=1kb)	high	0.90	-0.32	3.15E-06	MBNL3	non-AML leukemia types	59
cg24508310	1st Intron	high	0.90	-0.36	2.17E-05	BCOR	cited in AML	59
cg25927227	Other Intron	high	0.90	-0.51	2.28E-06	SFRP1	cited in AML	59
cg11229415	Promoter (<=1kb)	high	0.90	-0.33	1.33E-06	PLCH2	non-leukemia cancer types	23
cg11612905	Other Exon	high	0.90	-0.34	2.17E-05	DGKD	non-AML leukemia types	23
cg01759110	Promoter (<=1kb)	high	0.90	-0.54	2.17E-05	ADAMDEC1	non-leukemia cancer types	23
cg00328597	Other Intron	high	0.90	-0.45	5.66E-06	ACTN2	cited in AML	23
cg19145082	Distal Intergenic	high	0.90	-0.56	2.17E-05	CHST2	non-AML leukemia types	23
cg20048109	Other Intron	high	0.90	-0.45	6.14E-06	MAGI2	non-AML leukemia types	23
cg05573626	Other Exon	high	0.90	-0.34	1.25E-04	ZNF423	cited in AML	23
cg17086773	Distal Intergenic	high	0.90	-0.70	2.17E-05	CD200R1L	cited in PubMed	23
cg16375358	Promoter (<=1kb)	high	0.90	-0.42	7.92E-06	CACNG5	non-leukemia cancer types	23
cg04755857	Other Intron	high	0.73	-0.33	2.35E-04	EVC	non-AML leukemia types	81
cg08313382	Distal Intergenic	high	0.73	-0.40	1.10E-05	MIR4278	never cited	81
cg01206723	Distal Intergenic	high	0.73	-0.41	3.68E-06	RNU4-1	cited in PubMed	81
cg16491739	Distal Intergenic	high	1.11	-0.45	3.02E-06	C14orf180	cited in PubMed	
cg14737125	3' UTR	high	1.11	-0.30	2.17E-05	GBX2	cited in AML	
cg06079509	Other Exon	high	0.90	-0.26	5.34E-05	WFS1	non-leukemia cancer types	
cg10331779	Promoter (<=1kb)	high	0.64	-0.26	3.97E-05	CTNND2	non-leukemia cancer types	
cg17588373	Promoter (<=1kb)	high	1.11	-0.32	6.99E-05	GPM6B	cited in AML	
cg27426921	Distal Intergenic	high	1.11	-0.24	1.48E-06	PFKP	cited in AML	
cg12580770	Promoter (<=1kb)	high	1.25	-0.36	3.99E-04	HTR5A	non-leukemia cancer types	
cg08318283	Downstream (<=300)	high	0.90	-0.52	2.17E-05	HCN4	non-leukemia cancer types	30
cg05035315	1st Intron	high	0.90	-0.30	2.94E-06	OPCML	non-leukemia cancer types	30

cg04697056	Other Intron	high	0.90	-0.47	2.37E-06	FAT1	cited in AML	30
cg04086012	Promoter (<=1kb)	high	0.90	-0.21	3.35E-06	TRIML1	cited in PubMed	30
cg05576949	Promoter (1-2kb)	high	0.90	-0.62	2.17E-05	IGF2BP2	cited in AML	30
cg11873482	Promoter (<=1kb)	high	1.38	-0.39	1.78E-05	TAC1	non-AML leukemia types	47
cg04139223	Distal Intergenic	high	1.38	-0.37	2.65E-05	SLC9A3	non-leukemia cancer types	47
cg14206523	Distal Intergenic	high	1.11	-0.31	1.12E-06	GJD2	non-leukemia cancer types	
cg11889730	Distal Intergenic	high	0.90	-0.25	6.01E-05	MTRNR2L7	never cited	
cg14737484	Other Intron	high	1.38	-0.20	2.65E-05	TNXB	non-AML leukemia types	
cg04318657	Promoter (1-2kb)	low	0.90	-0.32	3.29E-05	PRKX	non-AML leukemia types	301
cg11638347	Promoter (<=1kb)	low	0.90	-0.26	5.80E-05	HLCS	non-leukemia cancer types	301
cg18142353	Promoter (<=1kb)	low	0.90	-0.38	2.17E-05	LRP6	cited in AML	301
cg11678461	1st Intron	low	0.90	-0.57	1.67E-06	OSBPL5	non-leukemia cancer types	301
cg22202121	Promoter (<=1kb)	low	0.73	-0.31	7.99E-06	ZNF292	non-AML leukemia types	
cg05255275	Promoter (<=1kb)	high	1.00	-0.26	4.11E-05	C14orf39	non-leukemia cancer types	
cg01377936	Promoter (<=1kb)	high	0.90	-0.49	2.17E-05	DMD	non-AML leukemia types	69
cg16101493	Promoter (1-2kb)	high	0.90	-0.22	2.17E-05	POU4F3	cited in AML	69
cg10815229	Promoter (<=1kb)	high	0.90	-0.34	2.17E-05	HELT	non-AML leukemia types	
cg06532574	Promoter (2-3kb)	low	0.73	-0.38	2.65E-05	ELL2	cited in AML	290
cg18568145	Promoter (<=1kb)	low	0.73	-0.28	4.57E-05	FAM189B	non-leukemia cancer types	290

**Annex X Genes with more than one CpG as potential biomarkers in AML-M2 patients.**

<b>gene</b>	<b>probes</b>	<b>location</b>	<b>Cluster</b>
<i>BAIAP2</i>	cg06578276	Other Intron	hypermethylation
	cg09083945	Promoter (2-3kb)	hypermethylation
<i>C1QTNF8</i>	cg00870837	Distal Intergenic	hypermethylation
	cg08747676	Promoter (1-2kb)	hypermethylation
<i>CACNA1H</i>	cg00583426	Other Intron	hypermethylation
	cg00396699	Other Intron	hypermethylation
<i>CSTA</i>	cg26928972	Promoter (<=1kb)	hypermethylation
	cg18618429	Promoter (<=1kb)	hypermethylation
<i>DLX4</i>	cg10592171	Promoter (2-3kb)	hypomethylation
	cg12224030	Promoter (1-2kb)	hypomethylation
<i>ENTPD3</i>	cg17264618	Promoter (<=1kb)	hypomethylation
	cg13409248	Promoter (<=1kb)	hypomethylation
<i>FIBIN</i>	cg24768113	Distal Intergenic	hypermethylation
	cg13694680	Promoter (1-2kb)	hypermethylation
<i>FLII</i>	cg17239923	Promoter (<=1kb)	hypomethylation
	cg10542562	Promoter (<=1kb)	hypomethylation
	cg08586366	Promoter (1-2kb)	hypomethylation
<i>FNDC1</i>	cg23026228	Distal Intergenic	hypermethylation
	cg21448927	Distal Intergenic	hypermethylation
<i>GABBR1</i>	cg17742099	Other Intron	hypermethylation
	cg27297993	Other Exon	hypermethylation
	cg00667298	Other Intron	hypermethylation
<i>GFII</i>	cg24517501	Promoter (<=1kb)	hypermethylation
	cg09674502	Promoter (<=1kb)	hypermethylation
	cg01766941	Promoter (1-2kb)	hypermethylation
	cg04777348	Promoter (<=1kb)	hypermethylation
<i>GNMT</i>	cg17345569	Promoter (<=1kb)	hypomethylation
	cg09436375	Promoter (<=1kb)	hypomethylation
<i>GRIK4</i>	cg25113360	Promoter (<=1kb)	hypermethylation
	cg26914334	Other Intron	hypermethylation
<i>GRM5</i>	cg23575349	Promoter (1-2kb)	hypermethylation
	cg10451200	Promoter (<=1kb)	hypermethylation
	cg08616516	Promoter (<=1kb)	hypermethylation
<i>HCG22</i>	cg13525397	Other Intron	hypermethylation
	cg24764810	Other Intron	hypermethylation
<i>HCN4</i>	cg08318283	Downstream (<=300)	hypermethylation
	cg18022554	1st Intron	hypermethylation
<i>HDAC4</i>	cg15978561	Other Intron	hypermethylation
	cg05870586	Other Intron	hypermethylation
<i>HLA-DMB</i>	cg20392842	Promoter (<=1kb)	hypomethylation
	cg16236263	Promoter (<=1kb)	hypomethylation
	cg16300030	Promoter (<=1kb)	hypomethylation

<b>gene</b>	<b>probes</b>	<b>location</b>	<b>Cluster</b>
<i>HOXB3</i>	cg00411072	Promoter (1-2kb)	hypermethylation
	cg12910797	Promoter (<=1kb)	hypermethylation
	cg22053945	Promoter (<=1kb)	hypermethylation
<i>IRX2</i>	cg26958838	Distal Intergenic	hypermethylation
	cg06728135	Distal Intergenic	hypermethylation
<i>IRX3</i>	cg08076437	Downstream (<=300)	hypomethylation
	cg01951879	Downstream (<=300)	hypomethylation
	cg08347500	Downstream (<=300)	hypomethylation
	cg05071046	Distal Intergenic	hypomethylation
<i>KALRN</i>	cg11939346	Promoter (<=1kb)	hypermethylation
	cg24323597	Promoter (<=1kb)	hypermethylation
<i>KIAA1217</i>	cg25042430	Promoter (1-2kb)	hypomethylation
	cg23196346	Other Intron	hypomethylation
<i>KLHL29</i>	cg16704797	Other Intron	hypermethylation
	cg20860188	1st Intron	hypermethylation
<i>LOXHD1</i>	cg21878759	Promoter (<=1kb)	hypermethylation
	cg23345292	Promoter (<=1kb)	hypermethylation
<i>MTRNR2L7</i>	cg11889730	Distal Intergenic	hypermethylation
	cg13720705	Distal Intergenic	hypermethylation
<i>MYO7A</i>	cg00497905	Other Exon	hypermethylation
	cg24852442	Other Exon	hypermethylation
	cg00840694	Promoter (1-2kb)	hypermethylation
	cg12738008	Other Exon	hypermethylation
<i>NEUROG3</i>	cg11228126	Distal Intergenic	hypermethylation
	cg24640390	Distal Intergenic	hypomethylation
<i>NSD1</i>	cg08369368	Promoter (<=1kb)	hypomethylation
	cg19027636	Promoter (1-2kb)	hypermethylation
<i>NTM</i>	cg16257533	Other Intron	hypermethylation
	cg05184519	Other Intron	hypermethylation
<i>NXN</i>	cg23749637	Promoter (<=1kb)	hypermethylation
	cg25050975	Other Intron	hypermethylation
<i>OPCML</i>	cg05035315	1st Intron	hypermethylation
	cg19743254	1st Intron	hypermethylation
	cg11747462	1st Intron	hypermethylation
<i>OSBPL5</i>	cg22074576	1st Intron	hypomethylation
	cg23357130	1st Intron	hypomethylation
	cg11678461	1st Intron	hypomethylation
<i>PCDH1</i>	cg03774957	Distal Intergenic	hypermethylation
	cg15646543	3' UTR	hypermethylation
<i>PDE4B</i>	cg22733910	Promoter (<=1kb)	hypermethylation
	cg23045908	Promoter (1-2kb)	hypomethylation
<i>PLCH2</i>	cg11229415	Promoter (<=1kb)	hypermethylation
	cg13183298	Distal Intergenic	hypermethylation

<b>gene</b>	<b>probes</b>	<b>location</b>	<b>Cluster</b>
<i>PLEKHG4B</i>	cg19052164	Distal Intergenic	hypermethylation
	cg13691209	Distal Intergenic	hypermethylation
<i>PPP2R2C</i>	cg01253818	Other Intron	hypermethylation
	cg20689476	Promoter (1-2kb)	hypermethylation
<i>PRDM8</i>	cg18073471	Promoter (<=1kb)	hypomethylation
	cg22902505	Promoter (<=1kb)	hypomethylation
<i>PRKAG2</i>	cg01058360	Other Intron	hypermethylation
	cg06333800	Other Intron	hypermethylation
<i>RASA3</i>	cg27119904	Other Intron	hypermethylation
	cg23312375	Other Intron	hypermethylation
	cg13557773	Other Intron	hypermethylation
<i>RN7SK</i>	cg01116873	Distal Intergenic	hypermethylation
	cg00573887	Distal Intergenic	hypermethylation
	cg04843555	Distal Intergenic	hypermethylation
	cg02570920	Distal Intergenic	hypermethylation
	cg17819250	Distal Intergenic	hypermethylation
<i>ROBO1</i>	cg08147563	1st Intron	hypermethylation
	cg08661007	Promoter (<=1kb)	hypermethylation
<i>SBNO2</i>	cg10819238	1st Intron	hypermethylation
	cg23866916	1st Intron	hypermethylation
	cg18004847	1st Intron	hypermethylation
	cg06578434	1st Intron	hypermethylation
<i>SFRP1</i>	cg25927227	Other Intron	hypermethylation
	cg16034268	Distal Intergenic	hypermethylation
<i>SH3BP2</i>	cg07991621	Promoter (<=1kb)	hypomethylation
	cg10745272	Promoter (<=1kb)	hypomethylation
<i>SLC4A4</i>	cg17691657	Promoter (<=1kb)	hypomethylation
	cg23726831	Other Intron	hypermethylation
<i>SORBS3</i>	cg03572859	Promoter (<=1kb)	hypomethylation
	cg17142470	Promoter (<=1kb)	hypomethylation
<i>SP3</i>	cg01883046	Distal Intergenic	hypermethylation
	cg13223682	Distal Intergenic	hypermethylation
<i>SYNPO</i>	cg15697257	Promoter (<=1kb)	hypermethylation
	cg19984911	Promoter (<=1kb)	hypermethylation
	cg15167202	Promoter (<=1kb)	hypermethylation
	cg05876069	Promoter (<=1kb)	hypermethylation
<i>TBC1D1</i>	cg09578829	Other Intron	hypermethylation
	cg08936645	Other Intron	hypermethylation
<i>TBX3</i>	cg22830507	Distal Intergenic	hypermethylation
	cg16966496	Distal Intergenic	hypermethylation
	cg19175386	Distal Intergenic	hypomethylation
<i>TEX29</i>	cg24102792	Distal Intergenic	hypermethylation
	cg09696747	Distal Intergenic	hypermethylation

<b>gene</b>	<b>probes</b>	<b>location</b>	<b>Cluster</b>
<i>TLR5</i>	cg07015886	Promoter (<=1kb)	hypermethylation
	cg01181681	Promoter (<=1kb)	hypermethylation
<i>TMEM105</i>	cg00036408	Distal Intergenic	hypermethylation
	cg02143487	Distal Intergenic	hypermethylation
<i>TNS3</i>	cg06588645	Promoter (2-3kb)	hypomethylation
	cg17858880	Promoter (2-3kb)	hypomethylation
<i>TNXB</i>	cg07345515	Other Intron	hypermethylation
	cg23313963	Other Exon	hypermethylation
	cg07717083	Other Intron	hypermethylation
	cg26346796	Other Intron	hypermethylation
	cg14737484	Other Intron	hypermethylation
<i>TRIM15</i>	cg21856784	Promoter (<=1kb)	hypermethylation
	cg22425467	Promoter (<=1kb)	hypermethylation
	cg00720829	Promoter (<=1kb)	hypermethylation
	cg05701418	Promoter (<=1kb)	hypermethylation
<i>TRNA</i>	cg16207110	Promoter (1-2kb)	hypomethylation
	cg24004178	Distal Intergenic	hypermethylation
<i>UNC13D</i>	cg07010633	Other Intron	hypomethylation
	cg02627403	3' UTR	hypomethylation
	cg12407791	Other Intron	hypomethylation
<i>XYLT1</i>	cg06321596	Promoter (1-2kb)	hypomethylation
	cg04313565	Promoter (2-3kb)	hypomethylation
	cg04359840	Promoter (1-2kb)	hypomethylation
	cg16794579	Promoter (2-3kb)	hypomethylation
<i>ZNF423</i>	cg05573626	Other Exon	hypermethylation
	cg26578156	1st Intron	hypermethylation

**Annex XI Additional information about the 4 candidate biomarkers of prognostic of gene expression in patients with AML-M4 categorized in the intermediate prognostic risk group.**

gene	status	Ratio	foldchange	<i>p-value</i>	bibliographic
<i>CCNK</i>	low	1.20	0.33	0.015769	cited in AML
<i>RPUSD4</i>	high	0.64	0.35	0.004117	non-leukemia cancer types
<i>ATAD3C</i>	high	1.18	0.21	0.000004	non-leukemia cancer types
<i>TRIM2</i>	high	1.30	0.37	0.044184	non-leukemia cancer types

**Annex XII List of the gene sets shared by the majority of the intermediate-poor AML-M4 that were differentially enriched in comparison with the intermediate-favorable subgroups.** For each gene set is represented the number and the percentage of intermediate-poor subgroups that have the gene sets enriched (n and percentage), a representative *p-value* and the status (upregulated (up) or downregulated (down)).

Set	n	Percentage	<i>p-value</i>	status
GO:0008380 RNA splicing	4	100	0.002	up
GO:0010948 negative regulation of cell cycle process	4	100	0.002	up
GO:0006397 mRNA processing	4	100	0.003	up
GO:0010498 proteasomal protein catabolic process	4	100	0.003	up
GO:0006401 RNA catabolic process	4	100	0.003	up
GO:1901991 negative regulation of mitotic cell cycle phase transition	4	100	0.004	up
GO:1901988 negative regulation of cell cycle phase transition	4	100	0.005	up
GO:0043161 proteasome-mediated ubiquitin-dependent protein catabolic process	4	100	0.006	up
GO:0009145 purine nucleoside triphosphate biosynthetic process	4	100	0.006	up
GO:0009206 purine ribonucleoside triphosphate biosynthetic process	4	100	0.008	up
GO:0006402 mRNA catabolic process	4	100	0.008	up
GO:0000375 RNA splicing, via transesterification reactions	4	100	0.009	up
GO:0009144 purine nucleoside triphosphate metabolic process	4	100	0.009	up
GO:0009199 ribonucleoside triphosphate metabolic process	4	100	0.009	up
GO:0090501 RNA phosphodiester bond hydrolysis	4	100	0.011	up
GO:0000377 RNA splicing, via transesterification reactions with bulged adenosine as nucleophile	4	100	0.011	up
GO:0000398 mRNA splicing, via spliceosome	4	100	0.011	up
GO:0006754 ATP biosynthetic process	4	100	0.012	up
GO:0009201 ribonucleoside triphosphate biosynthetic process	4	100	0.012	up
GO:0031145 anaphase-promoting complex-dependent catabolic process	4	100	0.013	up
GO:0009205 purine ribonucleoside triphosphate metabolic process	4	100	0.013	up
GO:0009141 nucleoside triphosphate metabolic process	4	100	0.017	up
GO:1901990 regulation of mitotic cell cycle phase transition	4	100	0.018	up
GO:0006120 mitochondrial electron transport, NADH to ubiquinone	4	100	0.019	up
GO:0009142 nucleoside triphosphate biosynthetic process	4	100	0.024	up
GO:0042775 mitochondrial ATP synthesis coupled electron transport	4	100	0.024	up
GO:1901987 regulation of cell cycle phase transition	4	100	0.024	up

Set	n	Percentage	p-value	status
GO:1902750 negative regulation of cell cycle G2/M phase transition	4	100	0.025	up
GO:0010972 negative regulation of G2/M transition of mitotic cell cycle	4	100	0.027	up
GO:0042769 DNA damage response, detection of DNA damage	4	100	0.028	up
GO:0045930 negative regulation of mitotic cell cycle	4	100	0.028	up
GO:0035195 gene silencing by miRNA	4	100	0.028	up
GO:0042773 ATP synthesis coupled electron transport	4	100	0.029	up
GO:1904030 negative regulation of cyclin-dependent protein kinase activity	4	100	0.033	up
GO:0015985 energy coupled proton transport, down electrochemical gradient	4	100	0.035	up
GO:0015986 ATP synthesis coupled proton transport	4	100	0.035	up
GO:0045736 negative regulation of cyclin-dependent protein serine/threonine kinase activity	4	100	0.035	up
GO:0090305 nucleic acid phosphodiester bond hydrolysis	4	100	0.035	up
GO:0005746 mitochondrial respirasome	4	100	0.036	up
GO:0006119 oxidative phosphorylation	4	100	0.036	up
GO:0040029 regulation of gene expression, epigenetic	4	100	0.036	up
GO:0006417 regulation of translation	4	100	0.038	up
GO:0034248 regulation of cellular amide metabolic process	4	100	0.040	up
GO:0070469 respirasome	4	100	0.041	up
GO:0006457 protein folding	4	100	0.041	up
GO:0046034 ATP metabolic process	4	100	0.041	up
GO:1903311 regulation of mRNA metabolic process	4	100	0.044	up
GO:0016441 posttranscriptional gene silencing	4	100	0.044	up
GO:0035194 posttranscriptional gene silencing by RNA	4	100	0.044	up
GO:0061013 regulation of mRNA catabolic process	4	100	0.046	up
GO:0006283 transcription-coupled nucleotide-excision repair	4	100	0.046	up
GO:0043488 regulation of mRNA stability	4	100	0.048	up
GO:0007606 sensory perception of chemical stimulus	4	100	0.008	down
GO:0050907 detection of chemical stimulus involved in sensory perception	4	100	0.011	down
GO:0050906 detection of stimulus involved in sensory perception	4	100	0.012	down
GO:0009593 detection of chemical stimulus	4	100	0.016	down
GO:0048754 branching morphogenesis of an epithelial tube	4	100	0.016	down
GO:0050909 sensory perception of taste	4	100	0.023	down
GO:0048665 neuron fate specification	4	100	0.032	down
GO:0061564 axon development	4	100	0.032	down
GO:0070509 calcium ion import	4	100	0.034	down
GO:0061138 morphogenesis of a branching epithelium	4	100	0.035	down
GO:0051606 detection of stimulus	4	100	0.038	down

Set	n	Percentage	p-value	status
GO:0001763 morphogenesis of a branching structure	4	100	0.039	down
GO:0050912 detection of chemical stimulus involved in sensory perception of taste	4	100	0.045	down
GO:0050806 positive regulation of synaptic transmission	4	100	0.047	down

**Annex XIII The remaining 225 identified CpG sites whose DNA methylation were able to predict survival in patients with AML-M4 categorized in the intermediate prognostic risk group.**

CpG sites	p-value	Optimal cutpoint	Group 1 (n)	Group 2 (n)	Age test (p-value)	Gene	HR
cg0244074 4	0.00015	0.5104	10	13	0.08779	<i>SLC26A5</i>	9.0284 0
cg1766457 7	0.00008	0.0758	8	13	0.91341	<i>MMP9</i>	8.9209 9
cg1243223 6	0.00032	0.1619	13	10	0.27731	<i>PCDH17</i>	8.9026 6
cg1806033 0	0.00019	0.7864	12	11	0.26746	<i>BTNL2</i>	8.5762 3
cg0816837 9	0.00024	0.5964	13	10	0.59773	<i>SALL1</i>	8.4472 7
cg2190994 8	0.00027	0.8074	10	13	0.51451	<i>IQSEC2</i>	8.3086 7
cg1410018 4	0.00033	0.3863	12	11	0.40558	<i>GNG13</i>	8.2538 9
cg0574433 2	0.00010	0.5701	9	14	0.13839	<i>MNX1</i>	7.7214 0
cg0687176 4	0.00015	0.6887	11	12	0.53785	<i>BTNL2</i>	7.5784 4
cg0316145 3	0.00061	0.8877	10	13	0.41965	<i>BCOR</i>	7.5615 5
cg1306015 7	0.00079	0.129	14	9	0.37735	<i>FAM19A3</i>	7.5043 3
cg1668374 6	0.00060	0.2662	12	11	0.10921	<i>RUNX1T1</i>	7.4947 8
cg1246202 6	0.00077	0.8209	14	9	0.84996	<i>HS6ST2</i>	7.4594 2
cg1170313 9	0.00064	0.9079	11	12	0.82928	<i>GUCY2F</i>	7.4129 5
cg2730716 8	0.00083	0.8152	13	10	0.53474	<i>RBMX</i>	7.3942 9
cg1604960 0	0.00031	0.7902	9	14	0.92464	<i>PCDHB11</i>	7.1976 9
cg0700311 5	0.00078	0.5532	14	9	0.23089	<i>MANEAL</i>	7.1275 7
cg1460574 8	0.00107	0.8787	10	12	0.89499	<i>AMOT</i>	7.0144 5
cg0378073 3	0.00104	0.6103	12	11	0.44125	<i>PCDHB7</i>	6.8788 2
cg1245424 5	0.00131	0.9227	12	11	0.71165	<i>NDUFB11</i>	6.8003 2

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg13795116	0.00150	0.9066	11	12	0.44125	<i>CLCN4</i>	6.72658
cg10249705	0.00053	0.5404	10	13	0.20315	<i>GUCY1A2</i>	6.60473
cg10703826	0.00061	0.328	9	14	0.08291	<i>TBX15</i>	6.46416
cg06801028	0.00017	0.3065	10	13	0.82799	<i>NCOA4</i>	6.35859
cg23850281	0.00066	0.8371	10	13	0.82799	<i>ADGRG2</i>	6.30660
cg24753473	0.00099	0.1543	12	11	0.14769	<i>MAP2</i>	6.16553
cg18996274	0.00085	0.8338	10	13	0.80389	<i>CYP26B1</i>	6.15876
cg09766820	0.00100	0.1842	10	12	0.97367	<i>LHX8</i>	6.09998
cg02060618	0.00099	0.6802	11	12	0.37170	<i>BMP15</i>	5.98057
cg02586212	0.00100	0.1812	12	10	0.86892	<i>RGS1</i>	5.87767
cg25879561	0.00092	0.3639	12	11	0.51772	<i>SNRPN</i>	5.83237
cg14988083	0.00411	0.2634	13	10	0.73278	<i>FGFR3</i>	5.64096
cg02593884	0.00411	0.6706	13	10	0.73278	<i>FLYWCH1</i>	5.64096
cg22190023	0.00086	0.6523	10	13	0.68657	<i>PCDHB7</i>	5.59047
cg06047020	0.00101	0.5837	13	10	0.10652	<i>GPC6</i>	5.58894
cg20757404	0.00086	0.5219	9	14	0.39462	<i>THEG</i>	5.57012
cg18496212	0.00147	0.1983	12	11	1.00000	<i>MITF</i>	5.46430
cg23756474	0.00113	0.1183	11	12	0.95088	<i>PCSK2</i>	5.43285
cg24533097	0.00190	0.6004	12	11	0.45974	<i>PCDHB11</i>	5.37955
cg17342925	0.00178	0.4294	9	14	0.43058	<i>EN1</i>	5.35627
cg08571680	0.00277	0.4805	12	11	0.40558	<i>TBX10</i>	5.28736
cg22851944	0.00143	0.1097	11	12	0.49798	<i>GRIK2</i>	5.23365
cg16062292	0.00074	0.5308	14	9	0.15597	<i>TKTL1</i>	5.17998
cg24508310	0.00178	0.7836	10	13	0.90119	<i>BCOR</i>	5.15726
cg26439139	0.00075	0.844	9	13	0.61619	<i>SGCD</i>	5.09647
cg19223521	0.00215	0.243	12	11	0.55837	<i>EN1</i>	5.09617

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg23992130	0.00224	0.8459	10	13	0.53474	<i>LONRF3</i>	5.00583
cg00412554	0.00413	0.8935	10	13	0.55536	<i>KLHL13</i>	4.97668
cg05946623	0.00127	0.5593	10	13	0.55536	<i>CDH8</i>	4.89196
cg02275924	0.00234	0.8851	9	14	0.89964	<i>MIDI1</i>	4.84769
cg12437013	0.00978	0.4753	14	9	0.94972	<i>TMCO3</i>	4.82762
cg20881335	0.00377	0.4993	11	12	0.20661	<i>GLRA2</i>	4.61475
cg16792071	0.00202	0.7562	11	12	0.35543	<i>ADGRA1</i>	4.32252
cg24489686	0.00526	0.8347	10	12	0.81728	<i>FGF13</i>	4.31138
cg27281882	0.00282	0.8836	9	14	0.80087	<i>PAK5</i>	4.22973
cg14215711	0.00270	0.3135	10	12	0.62053	<i>PIP4K2A</i>	4.15450
cg24740868	0.00337	0.6604	10	13	0.55536	<i>C1orf87</i>	4.13511
cg01325409	0.00419	0.7325	9	14	0.75255	<i>SLC24A5</i>	4.02275
cg12104246	0.01278	0.5247	13	10	0.57636	<i>C6orf62</i>	3.94986
cg09857513	0.00426	0.5109	11	12	0.13926	<i>WNT16</i>	3.93015
cg17544177	0.01350	0.3628	14	9	0.57037	<i>KCNIP2</i>	3.91834
cg19433175	0.00374	0.2462	13	10	0.51451	<i>TPTE</i>	3.85599
cg10566660	0.01482	0.2034	13	10	0.70954	<i>GTF3A</i>	3.85021
cg04514392	0.01482	0.7459	13	10	0.70954	<i>CCDC54</i>	3.85021
cg13971849	0.01482	0.527	13	10	0.70954	<i>PLEKHA2</i>	3.85021
cg11067407	0.01482	0.2285	13	10	0.70954	<i>TMPRSS5</i>	3.85021
cg02719508	0.01459	0.2974	12	9	0.45511	<i>AHNAK2</i>	3.84457
cg18417245	0.00318	0.7546	10	13	0.61945	<i>PCDHB11</i>	3.83701
cg06720722	0.01031	0.5955	11	12	0.51772	<i>TP63</i>	3.82081
cg15084269	0.01564	0.1206	14	9	0.70518	<i>STX6</i>	3.81891
cg04160030	0.00801	0.7215	12	11	0.73473	<i>FUCA1</i>	3.78775
cg15965134	0.01019	0.299	9	13	0.26999	<i>SOX14</i>	3.69967

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg21889703	0.01288	0.672	10	12	0.69205	<i>BCLAF1</i>	3.69920
cg22979531	0.00875	0.4952	10	13	0.92581	<i>TRNA</i>	3.68436
cg11340260	0.01247	0.5388	12	11	0.25440	<i>GP1BA</i>	3.68335
cg19196221	0.01148	0.8373	13	10	0.35176	<i>EPN1</i>	3.67546
cg13883633	0.01151	0.6845	12	11	0.37170	<i>MGA</i>	3.66123
cg06718139	0.01187	0.7797	12	11	0.95088	<i>KIDINS220</i>	3.65986
cg14265709	0.01111	0.2997	14	9	0.31302	<i>SLCO5A1</i>	3.62372
cg17501774	0.02142	0.8107	13	10	0.82799	<i>ZNF697</i>	3.61802
cg17435266	0.02142	0.0511	13	10	0.82799	<i>GGACT</i>	3.61802
cg00066854	0.01476	0.4063	11	12	0.33963	<i>GPAM</i>	3.61696
cg14211055	0.00946	0.8883	11	12	0.64405	<i>MCM3AP</i>	3.61460
cg08806184	0.00585	0.609	9	14	0.08866	<i>DPYSL5</i>	3.54556
cg21822834	0.01205	0.8245	10	13	0.90119	<i>AKT1</i>	3.53793
cg23866916	0.01205	0.586	10	13	0.90119	<i>SBNO2</i>	3.53793
cg25845326	0.01476	0.8361	12	11	1.00000	<i>MRGBPRE</i>	3.51238
cg13444289	0.00683	0.8804	11	12	0.24179	<i>HMGB3</i>	3.49570
cg05986288	0.01430	0.7621	10	13	0.59773	<i>HMGCR</i>	3.47425
cg00406338	0.01430	0.8267	10	13	0.59773	<i>NPEPL1</i>	3.47425
cg05094081	0.01135	0.0994	14	9	0.87474	<i>DLX1</i>	3.46848
cg18437033	0.01083	0.5905	13	10	0.21439	<i>TMEM132D</i>	3.43290
cg10068740	0.01844	0.876	11	12	0.75806	<i>NSD3</i>	3.42159
cg17761815	0.01841	0.6218	11	12	0.49798	<i>IL20RA</i>	3.41729
cg11940177	0.01319	0.4068	9	14	0.92464	<i>PGAM1</i>	3.41141
cg02276944	0.01756	0.3116	12	11	0.29496	<i>GPD2</i>	3.40884
cg00007076	0.01883	0.3583	12	11	1.00000	<i>RRS1</i>	3.39041
cg22620071	0.01903	0.7668	9	13	0.89363	<i>YTHDC2</i>	3.37194

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg22040039	0.01505	0.6649	10	13	0.49469	<i>ALDH2</i>	3.35970
cg11683364	0.02500	0.4195	9	12	0.94327	<i>LGR6</i>	3.35855
cg04722901	0.01742	0.6657	14	9	0.72873	<i>MYO10</i>	3.35060
cg00773060	0.01888	0.6413	14	9	0.52833	<i>TBCE</i>	3.34219
cg13552999	0.02173	0.1488	13	10	0.16248	<i>PTPN21</i>	3.32146
cg20779373	0.01081	0.2799	12	11	0.85337	<i>GRIK3</i>	3.31505
cg23422268	0.01718	0.6138	10	13	0.87667	<i>PAX2</i>	3.30257
cg07623567	0.02111	0.1842	14	9	0.59197	<i>HLA-DMB</i>	3.27841
cg26703507	0.02006	0.4007	14	9	0.13839	<i>SLC20A1</i>	3.27525
cg10026995	0.01296	0.2885	9	14	0.59197	<i>BRSK2</i>	3.27391
cg07015886	0.02208	0.3461	14	9	0.48792	<i>TLR5</i>	3.26918
cg13066481	0.02416	0.3842	11	12	0.73473	<i>MYLK</i>	3.26666
cg21446172	0.01996	0.79	10	13	0.85226	<i>CAPN8</i>	3.24451
cg26530319	0.02512	0.5686	12	11	0.18532	<i>HLX</i>	3.21152
cg27217742	0.02267	0.3969	10	13	0.55536	<i>RGS12</i>	3.15549
cg17758673	0.02267	0.5948	10	13	0.55536	<i>RGS12</i>	3.15549
cg24516497	0.02267	0.7128	10	13	0.55536	<i>CYB5D2</i>	3.15549
cg03523740	0.02502	0.3399	14	9	0.39462	<i>TXLNA</i>	3.15346
cg25276892	0.01775	0.4523	13	10	0.80389	<i>TNRC6B</i>	3.13568
cg14223135	0.02120	0.3545	13	10	0.80389	<i>TPSD1</i>	3.13474
cg01056004	0.02566	0.1753	14	9	0.06286	<i>SLIT1</i>	3.13267
cg01062020	0.01151	0.5836	10	13	0.90119	<i>SH2D1B</i>	3.12207
cg16629523	0.02367	0.1737	11	12	0.44125	<i>CTTN</i>	3.07790
cg18103730	0.02068	0.3807	11	12	0.25440	<i>GALC</i>	3.06347
cg03679544	0.02914	0.4545	14	9	0.20726	<i>TIAM2</i>	3.05919
cg12492938	0.01382	0.5174	12	11	0.42320	<i>LHX5</i>	3.05683

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg05798339	0.02395	0.4564	12	11	0.37170	<i>SRGAP3</i>	3.04357
cg07616394	0.02330	0.1488	13	9	0.16034	<i>HHEX</i>	3.02880
cg27315497	0.03229	0.2975	14	9	0.12237	<i>SLC43A1</i>	3.01541
cg26729380	0.03467	0.0962	14	9	0.48792	<i>TNF</i>	2.97725
cg07107171	0.02017	0.1063	9	13	0.78915	<i>TNR</i>	2.97149
cg13922669	0.02386	0.3608	13	10	0.16248	<i>LUZP2</i>	2.97077
cg11405695	0.02512	0.5607	13	10	0.26382	<i>ATAD3C</i>	2.96629
cg00469897	0.03610	0.2705	14	9	0.17519	<i>TNS3</i>	2.95649
cg08083041	0.02565	0.6398	13	10	0.45631	<i>CEMIP</i>	2.93873
cg02237906	0.02759	0.4905	12	11	0.97543	<i>RAB37</i>	2.93268
cg06398251	0.03805	0.5302	14	9	0.20726	<i>EIF4G1</i>	2.92760
cg27228413	0.02016	0.7936	11	12	0.73473	<i>MRPL46</i>	2.89307
cg15541611	0.04126	0.3178	14	9	0.43058	<i>C10orf95</i>	2.88499
cg02507296	0.04126	0.3182	14	9	0.43058	<i>C10orf95</i>	2.88499
cg13977486	0.04126	0.141	14	9	0.43058	<i>C10orf95</i>	2.88499
cg19268453	0.04126	0.4329	14	9	0.43058	<i>HLA-DMB</i>	2.88499
cg27331471	0.03052	0.5257	10	13	0.77997	<i>CKM</i>	2.88079
cg14086922	0.04126	0.3495	14	9	0.31302	<i>MICAL3</i>	2.86927
cg25335557	0.02912	0.1914	10	12	0.09888	<i>GBX2</i>	2.86905
cg21033675	0.03227	0.5638	13	10	0.66389	<i>MRGPRX4</i>	2.84637
cg20108357	0.03449	0.5377	13	10	0.12067	<i>BDNF</i>	2.84360
cg16708938	0.04518	0.2561	14	9	0.17519	<i>SIK1</i>	2.83579
cg14534144	0.04518	0.6984	14	9	0.17519	<i>TMCO3</i>	2.83579
cg23167246	0.04518	0.6787	14	9	0.17519	<i>TMCO3</i>	2.83579
cg23328404	0.04596	0.1072	14	9	0.54915	<i>CSGALNACT1</i>	2.82684
cg03996020	0.04596	0.3490	14	9	0.54915	<i>DNAJB6</i>	2.82684

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg01374870	0.04823	0.2427	13	9	0.31596	<i>HLA-DMB</i>	2.81714
cg24134261	0.04781	0.2347	13	9	0.25574	<i>RASGRP3</i>	2.80565
cg24175188	0.03503	0.3556	14	9	0.17519	<i>PXK</i>	2.79534
cg04411041	0.03767	0.3249	13	10	0.77997	<i>FAM180B</i>	2.75815
cg00343906	0.04682	0.3716	13	10	0.51451	<i>NADK</i>	2.64890
cg05464008	0.04894	0.4773	14	9	0.50791	<i>MCF2L</i>	2.62874
cg01289541	0.04925	0.2420	13	10	0.87667	<i>SLC7A14</i>	2.62160
cg04688330	0.04925	0.2584	13	10	0.87667	<i>SH3PXD2A</i>	2.62160
cg11657817	0.02532	0.4635	14	9	0.82533	<i>CST11</i>	2.45262
cg27166581	0.04481	0.3245	14	9	0.82533	<i>EFNA3</i>	2.45262
cg25417405	0.02532	0.4629	14	9	0.80087	<i>SLC27A2</i>	1.98682
cg27166673	0.04308	0.3748	13	10	0.87667	<i>ARHGAP6</i>	0.38711
cg11362604	0.04691	0.4002	9	14	0.13839	<i>MEIS2</i>	0.37707
cg04025964	0.02774	0.3221	12	11	0.10256	<i>NR5A2</i>	0.36180
cg08230177	0.03205	0.1255	11	12	0.85337	<i>TMEM174</i>	0.35967
cg03926025	0.02967	0.4809	12	11	0.53785	<i>HLA-E</i>	0.35694
cg02952295	0.02819	0.5784	13	10	0.14461	<i>TRPM8</i>	0.35508
cg06684850	0.02534	0.1452	14	9	0.46836	<i>BDNF</i>	0.35374
cg11005845	0.02742	0.3879	10	13	0.61945	<i>LDOC1</i>	0.35190
cg00603890	0.02667	0.504	9	14	0.29814	<i>CXorf56</i>	0.33619
cg06363801	0.02667	0.2491	9	14	0.29814	<i>MOSPD1</i>	0.33619
cg17236781	0.02468	0.3977	9	14	0.84996	<i>ZDHHC9</i>	0.33236
cg00264378	0.02468	0.4142	9	14	0.84996	<i>CLCN5</i>	0.33236
cg23939077	0.02468	0.5881	9	14	0.84996	<i>TSR2</i>	0.33236
cg04297329	0.01523	0.424	11	12	1.00000	<i>NAPIL2</i>	0.31651
cg20046330	0.01668	0.4645	10	13	0.70954	<i>STMN2</i>	0.31348

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg2436176 1	0.03664	0.6662	8	12	0.16460	<i>GPR158</i>	0.3064 4
cg2042144 6	0.02038	0.8421	9	14	0.36055	<i>NRN1</i>	0.3047 4
cg2673041 6	0.01834	0.3979	9	14	0.72873	<i>RRM1</i>	0.2982 1
cg1993797 9	0.01261	0.6907	9	14	0.84996	<i>CCDC177</i>	0.2981 3
cg1692704 0	0.00892	0.2913	14	9	0.21885	<i>SST</i>	0.2952 3
cg0512033 1	0.00898	0.2973	12	11	0.78160	<i>CCNA1</i>	0.2940 9
cg0230136 4	0.01617	0.041	14	9	0.89964	<i>PRPS1</i>	0.2867 8
cg0662847 3	0.01200	0.6694	14	9	0.28374	<i>MCC</i>	0.2813 6
cg2037223 0	0.00573	0.4849	13	10	0.73278	<i>LEP</i>	0.2809 5
cg1392122 0	0.00915	0.4655	11	12	0.35543	<i>IGSF21</i>	0.2807 7
cg0189117 2	0.00741	0.5599	10	13	0.49469	<i>KLHL34</i>	0.2783 5
cg0221849 6	0.00389	0.4667	12	11	0.68883	<i>DLX1</i>	0.2721 4
cg2555675 2	0.00482	0.1330	12	11	1.00000	<i>CLCN4</i>	0.2714 3
cg1398629 4	0.00770	0.5197	14	9	0.48792	<i>NFIB</i>	0.2689 4
cg0137538 2	0.01069	0.1185	14	9	0.65893	<i>RPS4Y1</i>	0.2644 0
cg0578660 1	0.01069	0.0243	14	9	0.65893	<i>AR</i>	0.2644 0
cg0952522 7	0.00984	0.1032	14	9	0.41237	<i>ESX1</i>	0.2629 5
cg1187162 8	0.00455	0.4405	10	13	0.66389	<i>CITED1</i>	0.2623 1
cg0393384 6	0.01160	0.5352	12	11	0.57926	<i>TMSB15A</i>	0.2621 8
cg0628988 2	0.00543	0.4807	9	14	0.80087	<i>RBMX2</i>	0.2607 4
cg1304846 6	0.00498	0.5167	11	12	0.11619	<i>WNT4</i>	0.2602 3
cg1024629 6	0.01100	0.0660	9	12	0.80332	<i>CLCN4</i>	0.2595 0
cg1132557 8	0.00640	0.4504	9	14	0.61394	<i>GPR143</i>	0.2551 9
cg0742800 4	0.00257	0.5065	13	10	1.00000	<i>LEP</i>	0.2532 1
cg0313649 3	0.00814	0.7767	13	9	0.81505	<i>TBXT</i>	0.2478 7
cg1454144 8	0.00707	0.0511	14	9	0.57037	<i>PTCHD1</i>	0.2467 8

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg02838825	0.00822	0.6269	13	10	0.43776	<i>TARBP1</i>	0.24522
cg15682807	0.00570	0.0182	14	9	0.94972	<i>ITM2A</i>	0.24478
cg00981643	0.00730	0.3515	12	11	0.80535	<i>MECP2</i>	0.24040
cg21167269	0.00333	0.6508	11	10	0.83253	<i>HSD17B3</i>	0.23792
cg05019001	0.00514	0.0260	14	9	0.57037	<i>AR</i>	0.23746
cg01479413	0.00514	0.0446	14	9	0.57037	<i>ARHGEF6</i>	0.23746
cg10418630	0.00364	0.2614	10	13	0.75626	<i>GPC4</i>	0.23686
cg01039990	0.00364	0.4254	10	13	0.75626	<i>ZIC3</i>	0.23686
cg16414561	0.00364	0.4091	10	13	0.75626	<i>ARX</i>	0.23686
cg23921534	0.00320	0.4788	11	12	0.60052	<i>POU3F4</i>	0.23396
cg19407410	0.00533	0.4716	14	9	0.57037	<i>PCDH19</i>	0.23269
cg25073957	0.00533	0.2492	14	9	0.32838	<i>RNF128</i>	0.23269
cg17875227	0.00534	0.0344	14	9	0.57037	<i>MORF4L2</i>	0.23198
cg25555657	0.00677	0.0421	13	10	0.95050	<i>FTSJ1</i>	0.23028
cg19153710	0.00677	0.0927	13	10	0.95050	<i>PHF8</i>	0.23028
cg02728721	0.00211	0.4534	11	12	0.85337	<i>LAMP5</i>	0.22945
cg24829975	0.00494	0.0408	13	10	0.90119	<i>ARMCX3</i>	0.22907
cg05782751	0.00549	0.1278	13	10	0.95050	<i>MCTS1</i>	0.22411
cg12527112	0.00549	0.0567	13	10	0.95050	<i>UPF3B</i>	0.22411
cg03317455	0.00549	0.0825	13	10	0.95050	<i>MAOA</i>	0.22411
cg02213813	0.00549	0.0299	13	10	0.95050	<i>MAMLD1</i>	0.22411
cg08395108	0.00549	0.0562	13	10	0.95050	<i>MAGED2</i>	0.22411
cg19912739	0.00320	0.0394	14	9	0.65893	<i>MAMLD1</i>	0.22195
cg01212677	0.00501	0.0600	14	9	0.94972	<i>PDK3</i>	0.22163
cg12324831	0.00501	0.0624	14	9	0.94972	<i>VBPI</i>	0.22163
cg22766145	0.00202	0.2685	13	10	0.32058	<i>BHLHE22</i>	0.21725

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg25614094	0.00302	0.2463	14	9	0.10112	<i>OPRK1</i>	0.21595
cg16491617	0.00302	0.1228	14	9	0.10112	<i>OPRK1</i>	0.21595
cg07764473	0.00199	0.5997	13	10	0.68657	<i>BCOR</i>	0.21581
cg17861230	0.00164	0.5071	14	9	0.57037	<i>PDE4C</i>	0.21399
cg26142661	0.00310	0.1296	13	10	0.66389	<i>ZMAT1</i>	0.21325
cg21744850	0.00257	0.4019	12	11	0.47865	<i>DGKK</i>	0.21294
cg21491240	0.00231	0.0303	14	9	0.48792	<i>HTATSF1</i>	0.20919
cg02156782	0.00231	0.0644	14	9	0.48792	<i>PPP1R3F</i>	0.20919
cg06211724	0.00251	0.2994	13	10	0.29127	<i>LAMC2</i>	0.20910
cg05883195	0.00576	0.7439	10	13	0.59773	<i>SOX8</i>	0.20887
cg08908089	0.00290	0.5298	13	10	0.90119	<i>APBA2</i>	0.20458
cg09208571	0.00271	0.2534	13	10	0.85226	<i>MAGED2</i>	0.20443
cg14270434	0.00166	0.6251	13	10	0.49469	<i>FOXE1</i>	0.20399
cg14091713	0.00224	0.0571	13	10	0.53474	<i>RP2</i>	0.19977
cg12713960	0.00202	0.0328	14	9	0.52833	<i>GLOD5</i>	0.19772
cg15075851	0.00344	0.1840	12	11	0.66629	<i>HPRT1</i>	0.19760
cg18973863	0.00152	0.7192	9	14	0.21885	<i>MBNL2</i>	0.19516
cg09001953	0.00104	0.0899	12	11	0.68883	<i>UFSP2</i>	0.19473
cg16235803	0.00222	0.4290	9	14	0.61394	<i>WNK3</i>	0.19402
cg00583618	0.00178	0.0174	13	10	0.90119	<i>MAGIX</i>	0.19390
cg13699152	0.00178	0.0196	13	10	0.90119	<i>GK</i>	0.19390
cg01098871	0.00294	0.0428	12	11	1.00000	<i>WDR45</i>	0.19371
cg03536032	0.00276	0.2463	11	12	0.45974	<i>ARHGAP6</i>	0.19252
cg22473846	0.00070	0.2874	13	10	0.55536	<i>OSMR</i>	0.19179
cg16290737	0.00264	0.1661	11	11	0.34062	<i>CHGA</i>	0.18947
cg16328412	0.00129	0.5234	10	13	0.43776	<i>IGSF1</i>	0.18941

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg23496314	0.00135	0.0376	13	10	0.70954	<i>BCOR</i>	0.18601
cg15281331	0.00084	0.5640	9	14	0.63627	<i>JAKMIP3</i>	0.18548
cg05921207	0.00085	0.4371	14	9	0.39462	<i>CHRD1</i>	0.18508
cg13077484	0.00097	0.0641	14	9	0.94972	<i>DLG3</i>	0.18426
cg07210835	0.00097	0.0414	14	9	0.94972	<i>PLP2</i>	0.18426
cg27404676	0.00121	0.1562	14	9	0.70518	<i>TENT5D</i>	0.18418
cg07351143	0.00138	0.4899	14	9	0.39462	<i>SPAG6</i>	0.18126
cg10578938	0.00198	0.7131	13	8	0.23150	<i>CYFIP2</i>	0.18121
cg15211677	0.00240	0.0671	14	9	0.75255	<i>TCEAL9</i>	0.17985
cg00180631	0.00194	0.1710	13	10	0.40200	<i>MTM1</i>	0.17781
cg18452799	0.00161	0.0841	14	9	0.37735	<i>TRMT2B</i>	0.17556
cg16930349	0.00139	0.0347	13	10	0.43776	<i>GRIPAP1</i>	0.17499
cg18742441	0.00096	0.0215	13	10	0.45631	<i>ATP6AP1</i>	0.17408
cg21887683	0.00096	0.0216	13	10	0.45631	<i>HTATSF1</i>	0.17408
cg16391404	0.00096	0.1638	13	10	0.45631	<i>ZNF711</i>	0.17408
cg01191902	0.00136	0.0326	13	10	0.95050	<i>PRAF2</i>	0.17317
cg15322420	0.00146	0.0446	13	10	0.66389	<i>MORF4L2</i>	0.17316
cg10848980	0.00085	0.0237	14	9	0.44924	<i>PRAF2</i>	0.17239
cg03165176	0.00159	0.7308	14	9	0.80087	<i>APC2</i>	0.17068
cg18556676	0.00101	0.5281	13	10	0.82799	<i>ABCC9</i>	0.16910
cg05855948	0.00112	0.4432	13	10	0.64151	<i>KCTD1</i>	0.16793
cg01488378	0.00102	0.0458	14	9	0.34423	<i>SLC35A2</i>	0.16587
cg07903918	0.00077	0.3521	12	11	0.87760	<i>GABBR2</i>	0.16499
cg13879937	0.00221	0.8185	9	14	0.61394	<i>EHD4</i>	0.16400
cg00698744	0.00078	0.0680	12	11	0.16570	<i>TSPYL2</i>	0.16211
cg06068202	0.00106	0.3228	12	11	0.80535	<i>GPR50</i>	0.16202

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg00227584	0.00106	0.1171	12	11	0.80535	<i>TSPYL2</i>	0.16202
cg13822691	0.00106	0.1188	12	11	0.80535	<i>MSN</i>	0.16202
cg20880647	0.00106	0.1004	12	11	0.80535	<i>RNF128</i>	0.16202
cg15788661	0.00106	0.1289	12	11	0.80535	<i>FAM155B</i>	0.16202
cg15706156	0.00106	0.0231	12	11	0.80535	<i>GABRQ</i>	0.16202
cg07320017	0.00106	0.1574	12	11	0.80535	<i>MCF2</i>	0.16202
cg17973147	0.00106	0.1051	12	11	0.80535	<i>JADE3</i>	0.16202
cg09443457	0.00106	0.4139	12	11	0.80535	<i>FAM47C</i>	0.16202
cg02116333	0.00106	0.0298	12	11	0.80535	<i>HSD17B10</i>	0.16202
cg06650776	0.00106	0.0399	12	11	0.80535	<i>BEX3</i>	0.16202
cg02938958	0.00106	0.0363	12	11	0.80535	<i>ARX</i>	0.16202
cg01353788	0.00106	0.0198	12	11	0.80535	<i>AFF2</i>	0.16202
cg15050093	0.00106	0.0413	12	11	0.80535	<i>RPL39</i>	0.16202
cg14022645	0.00106	0.0283	12	11	0.80535	<i>TFE3</i>	0.16202
cg19679687	0.00106	0.2907	12	11	0.80535	<i>LANCL3</i>	0.16202
cg23050981	0.00106	0.0417	12	11	0.80535	<i>LICAM</i>	0.16202
cg26583344	0.00096	0.0326	13	10	0.80389	<i>TMEM255A</i>	0.16055
cg23694557	0.00096	0.0596	13	10	0.80389	<i>IGSF1</i>	0.16055
cg09970175	0.00019	0.2903	10	13	0.73278	<i>SEMA6D</i>	0.15868
cg19736647	0.00075	0.0345	14	9	0.13019	<i>AIFM1</i>	0.15843
cg10994149	0.00040	0.7046	11	12	0.37170	<i>ANXA2R</i>	0.15667
cg00398130	0.00044	0.4211	12	11	0.95088	<i>STMN2</i>	0.14922
cg13183496	0.00131	0.0374	11	12	0.71165	<i>FAM120C</i>	0.14705
cg08100265	0.00131	0.1238	11	12	0.71165	<i>THOC2</i>	0.14705
cg00687135	0.00081	0.3885	14	9	0.13839	<i>ZNF385D</i>	0.14678
cg02279124	0.00017	0.4991	9	14	0.39462	<i>SRPK3</i>	0.14417

<b>CpG sites</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>Gene</b>	<b>HR</b>
cg07390463	0.00016	0.6155	14	9	0.92464	<i>ALG10</i>	0.13970
cg04474375	0.00086	0.2962	10	13	0.85226	<i>FGF13</i>	0.13916
cg00177239	0.00031	0.1733	14	9	0.61394	<i>FAM160B1</i>	0.13893
cg14232291	0.00034	0.5861	12	11	0.28098	<i>KLHL34</i>	0.13618
cg18747090	0.00021	0.5765	12	11	0.95088	<i>PNPLA4</i>	0.13406
cg13072112	0.00023	0.3746	12	11	0.30939	<i>SOX3</i>	0.13096
cg01908395	0.00023	0.2919	12	11	0.30939	<i>MSX2</i>	0.13096
cg24648715	0.00054	0.0403	11	11	0.97379	<i>TCEAL3</i>	0.12853
cg17407511	0.00017	0.3197	13	10	0.59773	<i>SRPX</i>	0.12670
cg05926586	0.00075	0.8654	11	10	0.77806	<i>CCDC33</i>	0.12550
cg01003197	0.00036	0.0794	13	10	0.90119	<i>OPHN1</i>	0.12208
cg06943593	0.00036	0.0202	13	10	0.90119	<i>ARX</i>	0.12208
cg15024277	0.00036	0.0405	13	10	0.90119	<i>BEX3</i>	0.12208
cg24139895	0.00036	0.0554	13	10	0.90119	<i>NXT2</i>	0.12208
cg18134562	0.00046	0.3419	11	12	0.87760	<i>PLS3</i>	0.12004
cg25052176	0.00026	0.3806	11	12	0.60052	<i>WNK3</i>	0.11406
cg07758529	0.00023	0.4763	12	11	0.60052	<i>IL1RAPL2</i>	0.11321
cg14156792	0.00011	0.4565	14	9	0.57037	<i>SAMD11</i>	0.10189
cg14499563	0.00012	0.2678	14	9	0.82533	<i>CCNA1</i>	0.09959
cg06228453	0.00020	0.5394	9	14	0.63627	<i>MORC4</i>	0.08697
cg25127732	0.00020	0.4341	9	14	0.63627	<i>KLHL34</i>	0.08697
cg20950264	0.00016	0.3900	10	13	1.00000	<i>EFNB1</i>	0.08606
cg16639692	0.00003	0.6381	14	9	0.10112	<i>ANXA2R</i>	0.08256
cg15395971	0.00010	0.4911	13	10	0.75626	<i>F3</i>	0.07661
cg21477075	0.00007	0.8157	14	9	0.70518	<i>KIF25</i>	0.07399
cg22696549	0.00004	0.2194	10	13	0.75626	<i>NR0B1</i>	0.06885

<b>CpG sites</b>	<b><i>p</i>-value</b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p</i>-value)</b>	<b>Gene</b>	<b>HR</b>
cg20710266	0.00001	0.2462	13	10	0.97524	<i>NR2F2</i>	0.05806
cg20371650	0.00007	0.3641	9	14	0.50791	<i>PRAF2</i>	0.04326
cg15718594	0.02532	0.1791	12	10	0.71655	<i>BATF3</i>	
cg10349687	0.02532	0.7131	13	9	0.66389	<i>DNAJB6</i>	
cg04267772	0.02532	0.4301	12	11	0.85337	<i>CARHSP1</i>	
cg11311332	0.02532	0.7568	11	12	0.97543	<i>PODXL</i>	
cg21606490	0.04481	0.0878	11	12	0.51772	<i>NTNG1</i>	
cg03112433	0.00022	0.4704	12	11	0.71165	<i>CDK14</i>	
cg07924081	0.01405	0.1527	14	9	0.84996	<i>PPP1R13L</i>	
cg24630778	0.04481	0.7687	11	11	0.74246	<i>GALNT9</i>	
cg26307359	0.02532	0.0577	13	10	0.59773	<i>SEZ6</i>	
cg02311725	0.02532	0.274	14	9	0.18544	<i>HCK</i>	
cg08118344	0.04481	0.4382	11	12	0.28098	<i>RAP1GAP</i>	
cg01353586	0.02532	0.1719	11	11	0.79258	<i>HS3ST4</i>	
cg12024530	0.04481	0.3202	14	9	0.29814	<i>C12orf10</i>	
cg03975922	0.04481	0.3871	12	11	0.32428	<i>ZMAT2</i>	
cg27557428	0.02532	0.0540	12	10	1.00000	<i>TMEM9</i>	
cg16322565	0.02532	0.4527	14	9	0.32838	<i>NR112</i>	
cg26135172	0.04481	0.0938	13	10	0.75626	<i>LIMD1</i>	
cg21454485	0.02265	0.5287	13	10	0.61945	<i>CD84</i>	
cg02568531	0.02532	0.3937	14	9	0.18544	<i>PNPLA2</i>	
cg05448271	0.03128	0.7846	10	12	0.09897	<i>KLF6</i>	
cg12857702	0.00316	0.1287	14	9	0.61394	<i>ATRX</i>	
cg01032398	0.02532	0.6783	14	9	0.57037	<i>APOE</i>	
cg15378486	0.02532	0.3017	14	9	1.00000	<i>FSCN2</i>	
cg15320998	0.02532	0.1523	14	9	0.77660	<i>ZNF212</i>	

<b>CpG sites</b>	<b><i>p-value</i></b>	<b>Optimal cutpoint</b>	<b>Group 1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (<i>p-value</i>)</b>	<b>Gene</b>	<b>HR</b>
cg1179287 4	0.04481	0.4584	14	9	0.77660	<i>ZFHX2</i>	
cg0092665 7	0.04481	0.4101	14	9	0.77660	<i>MAFG</i>	

**Annex XIV Additional information about the 375 candidate biomarkers of prognostic of DNA methylation in patients with AML-M4 categorized in the intermediate prognostic risk group.**

CpG sites	location	status	Ratio	delta beta	p-value	Gene	cluster
cg25914522	Promoter (2-3kb)	low	1.43	-0.33	1.03E-04	<i>RBMY1F</i>	
cg04929022	1st Intron	low	0.92	-0.30	1.48E-06	<i>VGLL1</i>	
cg06294373	Other Exon	low	0.91	-0.24	3.25E-05	<i>UMOD</i>	
cg06394109	Distal Intergenic	low	1.56	-0.50	2.45E-06	<i>CIQTNF8</i>	
cg14312439	Promoter (<=1kb)	low	1.56	-0.36	2.45E-06	<i>CCR3</i>	
cg17560693	Promoter (<=1kb)	low	1.00	-0.20	2.84E-06	<i>TBX22</i>	
cg16803185	Promoter (1-2kb)	low	1.30	-0.34	1.75E-06	<i>PLS3</i>	
cg15467834	Distal Intergenic	low	1.30	-0.36	1.75E-06	<i>CRYAA</i>	
cg19720260	Promoter (<=1kb)	low	1.30	-0.36	3.68E-06	<i>NXPE2</i>	
cg21230162	Distal Intergenic	low	0.64	-0.31	4.65E-06	<i>CRIPAK</i>	
cg21329507	Promoter (<=1kb)	low	0.64	-0.38	2.45E-06	<i>TMEM255A</i>	
cg25946304	Promoter (<=1kb)	low	0.77	-0.27	4.42E-05	<i>SIPR5</i>	1
cg13185308	Promoter (<=1kb)	low	0.77	-0.32	1.75E-06	<i>ABCC8</i>	1
cg13149245	Downstream (<=300)	low	1.56	-0.30	1.00E-06	<i>PIF1</i>	
cg22405653	Promoter (1-2kb)	low	0.64	-0.39	6.45E-07	<i>KRTAP21-1</i>	
cg02440744	Promoter (<=1kb)	low	0.77	-0.40	1.75E-06	<i>SLC26A5</i>	
cg17664577	Other Exon	low	0.62	-0.23	9.83E-06	<i>MMP9</i>	
cg12432236	1st Exon	low	1.30	-0.46	6.30E-05	<i>PCDH17</i>	
cg18060330	Promoter (1-2kb)	low	1.09	-0.42	1.48E-06	<i>BTNL2</i>	
cg08168379	Distal Intergenic	low	1.30	-0.43	1.75E-06	<i>SALL1</i>	
cg21909948	Other Intron	low	0.77	-0.22	1.97E-06	<i>IQSEC2</i>	
cg14100184	Promoter (<=1kb)	low	1.09	-0.29	7.59E-07	<i>GNG13</i>	
cg05744332	Promoter (2-3kb)	low	0.64	-0.39	6.85E-06	<i>MNX1</i>	
cg06871764	Promoter (1-2kb)	low	0.92	-0.37	1.48E-06	<i>BTNL2</i>	
cg03161453	1st Intron	low	0.77	-0.27	1.75E-06	<i>BCOR</i>	
cg13060157	Distal Intergenic	low	1.56	-0.47	2.45E-06	<i>FAM19A3</i>	

cg16683746	Promoter (1-2kb)	low	1.09	-0.39	1.48E-06	<i>RUNXIT1</i>	
cg12462026	Promoter (<=1kb)	low	1.56	-0.30	2.45E-06	<i>HS6ST2</i>	
cg11703139	Promoter (<=1kb)	low	0.92	-0.20	1.48E-06	<i>GUCY2F</i>	
cg27307168	Distal Intergenic	low	1.30	-0.23	1.75E-06	<i>RBMX</i>	
cg16049600	Promoter (<=1kb)	low	0.64	-0.51	2.45E-06	<i>PCDHB11</i>	
cg07003115	Promoter (<=1kb)	low	1.56	-0.31	1.19E-06	<i>MANEAL</i>	
cg14605748	Promoter (<=1kb)	low	0.83	-0.22	3.09E-06	<i>AMOT</i>	
cg03780733	Promoter (<=1kb)	low	1.09	-0.42	1.48E-06	<i>PCDHB7</i>	
cg12454245	Promoter (2-3kb)	low	1.09	-0.27	1.48E-06	<i>NDUFB11</i>	
cg13795116	3' UTR	low	0.92	-0.24	1.48E-06	<i>CLCN4</i>	
cg10249705	Promoter (<=1kb)	low	0.77	-0.53	3.13E-08	<i>GUCY1A2</i>	
cg10703826	Promoter (<=1kb)	low	0.64	-0.51	8.21E-05	<i>TBX15</i>	
cg06801028	Promoter (<=1kb)	low	0.77	-0.32	4.62E-08	<i>NCOA4</i>	
cg23850281	Promoter (2-3kb)	low	0.77	-0.29	1.75E-06	<i>ADGRG2</i>	
cg24753473	Promoter (<=1kb)	low	1.09	-0.47	1.48E-06	<i>MAP2</i>	
cg18996274	Distal Intergenic	low	0.77	-0.23	1.75E-06	<i>CYP26B1</i>	
cg09766820	Promoter (1-2kb)	low	0.83	-0.21	3.09E-06	<i>LHX8</i>	
cg02060618	Promoter (<=1kb)	low	0.92	-0.22	3.09E-05	<i>BMP15</i>	
cg02586212	Promoter (<=1kb)	low	1.20	-0.36	3.09E-06	<i>RGS1</i>	
cg25879561	Promoter (<=1kb)	low	1.09	-0.30	9.99E-06	<i>SNRPN</i>	
cg14988083	Promoter (1-2kb)	low	1.30	-0.31	1.92E-06	<i>FGFR3</i>	298
cg02593884	Promoter (1-2kb)	low	1.30	-0.26	8.30E-08	<i>FLYWCHI</i>	298
cg22190023	Promoter (<=1kb)	low	0.77	-0.44	6.30E-05	<i>PCDHB7</i>	
cg06047020	Promoter (1-2kb)	low	1.30	-0.41	6.30E-05	<i>GPC6</i>	
cg20757404	Promoter (2-3kb)	low	0.64	-0.35	2.45E-06	<i>THEG</i>	
cg18496212	1st Intron	low	1.09	-0.30	1.48E-06	<i>MITF</i>	
cg23756474	Other Intron	low	0.92	-0.48	1.48E-06	<i>PCSK2</i>	
cg24533097	Promoter (<=1kb)	low	1.09	-0.38	5.52E-05	<i>PCDHB11</i>	

cg17342925	Distal Intergenic	low	0.64	-0.28	6.59E-06	<i>ENI</i>	
cg08571680	Promoter (<=1kb)	low	1.09	-0.30	1.08E-07	<i>TBX10</i>	
cg22851944	Promoter (<=1kb)	low	0.92	-0.37	1.48E-06	<i>GRIK2</i>	
cg16062292	3' UTR	low	1.56	-0.30	6.60E-08	<i>TKTL1</i>	
cg24508310	1st Intron	low	0.77	-0.30	8.37E-06	<i>BCOR</i>	
cg26439139	Other Intron	low	0.69	-0.22	4.02E-06	<i>SGCD</i>	
cg19223521	Distal Intergenic	low	1.09	-0.44	1.48E-06	<i>ENI</i>	
cg23992130	Other Intron	low	0.77	-0.37	1.75E-06	<i>LONRF3</i>	
cg00412554	Promoter (<=1kb)	low	0.77	-0.28	1.75E-06	<i>KLHL13</i>	
cg05946623	Promoter (<=1kb)	low	0.77	-0.34	1.23E-05	<i>CDH8</i>	
cg02275924	Promoter (<=1kb)	low	0.64	-0.47	2.45E-06	<i>MID1</i>	
cg12437013	Other Intron	low	1.56	-0.31	2.60E-07	<i>TMCO3</i>	
cg20881335	Promoter (<=1kb)	low	0.92	-0.49	3.12E-07	<i>GLRA2</i>	
cg16792071	Distal Intergenic	low	0.92	-0.20	1.48E-06	<i>ADGRA1</i>	
cg24489686	Other Intron	low	0.83	-0.21	3.09E-06	<i>FGF13</i>	
cg27281882	Promoter (1-2kb)	low	0.64	-0.22	2.45E-06	<i>PAK5</i>	
cg14215711	Other Intron	low	0.83	-0.24	1.09E-07	<i>PIP4K2A</i>	
cg24740868	Promoter (<=1kb)	low	0.77	-0.32	2.87E-05	<i>C1orf87</i>	
cg01325409	Promoter (<=1kb)	low	0.64	-0.20	3.63E-06	<i>SLC24A5</i>	
cg12104246	Promoter (<=1kb)	low	1.30	-0.43	2.20E-07	<i>C6orf62</i>	
cg09857513	Promoter (<=1kb)	low	0.92	-0.31	2.60E-06	<i>WNT16</i>	
cg17544177	Promoter (<=1kb)	low	1.56	-0.52	2.45E-06	<i>KCNIP2</i>	
cg19433175	Distal Intergenic	low	1.30	-0.25	2.60E-06	<i>TPTE</i>	
cg10566660	Distal Intergenic	low	1.30	-0.24	8.17E-07	<i>GTF3A</i>	3
cg04514392	Distal Intergenic	low	1.30	-0.59	1.75E-06	<i>CCDC54</i>	3
cg13971849	Other Intron	low	1.30	-0.24	5.81E-08	<i>PLEKHA2</i>	3
cg11067407	Distal Intergenic	low	1.30	-0.21	1.75E-06	<i>TMPRSS5</i>	3
cg02719508	Promoter (<=1kb)	low	1.33	-0.23	1.01E-04	<i>AHNAK2</i>	
cg18417245	Promoter (<=1kb)	low	0.77	-0.37	1.75E-06	<i>PCDHB11</i>	
cg06720722	Promoter (<=1kb)	low	0.92	-0.53	5.52E-05	<i>TP63</i>	

cg15084269	Promoter (1-2kb)	low	1.56	-0.25	2.45E-06	<i>STX6</i>	
cg04160030	Promoter (<=1kb)	low	1.09	-0.40	1.48E-06	<i>FUCA1</i>	
cg15965134	Promoter (2-3kb)	low	0.69	-0.23	4.81E-08	<i>SOX14</i>	
cg21889703	1st Intron	low	0.83	-0.28	5.90E-07	<i>BCLAF1</i>	
cg22979531	Distal Intergenic	low	0.77	-0.31	4.82E-06	<i>TRNA</i>	
cg11340260	Promoter (<=1kb)	low	1.09	-0.34	8.04E-06	<i>GP1BA</i>	
cg19196221	Distal Intergenic	low	1.30	-0.22	1.75E-06	<i>EPN1</i>	
cg13883633	Promoter (<=1kb)	low	1.09	-0.28	1.72E-05	<i>MGA</i>	
cg06718139	3' UTR	low	1.09	-0.27	1.48E-06	<i>KIDINS220</i>	
cg14265709	1st Intron	low	1.56	-0.52	2.45E-06	<i>SLCO5A1</i>	
cg17501774	1st Intron	low	1.30	-0.25	1.75E-06	<i>ZNF697</i>	4
cg17435266	Promoter (<=1kb)	low	1.30	-0.27	1.75E-06	<i>GGACT</i>	4
cg00066854	Distal Intergenic	low	0.92	-0.40	4.59E-07	<i>GPAM</i>	
cg14211055	Promoter (<=1kb)	low	0.92	-0.42	1.48E-06	<i>MCM3AP</i>	
cg08806184	Promoter (2-3kb)	low	0.64	-0.32	2.56E-06	<i>DPYSL5</i>	
cg21822834	Promoter (1-2kb)	low	0.77	-0.28	1.75E-06	<i>AKT1</i>	5
cg23866916	1st Intron	low	0.77	-0.38	1.30E-08	<i>SBNO2</i>	5
cg25845326	Other Exon	low	1.09	-0.33	1.48E-06	<i>MARGPRE</i>	
cg13444289	3' UTR	low	0.92	-0.23	1.48E-06	<i>HMGB3</i>	
cg05986288	Distal Intergenic	low	0.77	-0.32	7.23E-06	<i>HMGCR</i>	6
cg00406338	Promoter (<=1kb)	low	0.77	-0.26	1.75E-06	<i>NPEPL1</i>	6
cg05094081	Promoter (<=1kb)	low	1.56	-0.34	8.21E-05	<i>DLX1</i>	
cg18437033	1st Intron	low	1.30	-0.46	1.75E-06	<i>TMEM132D</i>	
cg10068740	Other Intron	low	0.92	-0.23	1.48E-06	<i>NSD3</i>	
cg17761815	Other Exon	low	0.92	-0.37	5.52E-05	<i>IL20RA</i>	
cg11940177	Promoter (1-2kb)	low	0.64	-0.47	2.45E-06	<i>PGAM1</i>	
cg02276944	Promoter (<=1kb)	low	1.09	-0.27	1.48E-06	<i>GPD2</i>	
cg00007076	Promoter (1-2kb)	low	1.09	-0.36	2.39E-06	<i>RRS1</i>	
cg22620071	Distal Intergenic	low	0.69	-0.29	4.02E-06	<i>YTHDC2</i>	
cg22040039	Distal Intergenic	low	0.77	-0.27	1.27E-06	<i>ALDH2</i>	
cg11683364	Promoter (2-3kb)	low	0.75	-0.20	1.19E-04	<i>LGR6</i>	

cg04722901	Other Intron	low	1.56	-0.23	2.41E-06	<i>MYO10</i>	
cg00773060	Other Intron	low	1.56	-0.30	3.24E-08	<i>TBCE</i>	
cg13552999	Promoter (<=1kb)	low	1.30	-0.34	1.75E-06	<i>PTPN21</i>	
cg20779373	1st Intron	low	1.09	-0.28	8.53E-08	<i>GRIK3</i>	
cg23422268	Distal Intergenic	low	0.77	-0.51	1.18E-08	<i>PAX2</i>	
cg07623567	Promoter (<=1kb)	low	1.56	-0.27	2.45E-06	<i>HLA-DMB</i>	
cg26703507	Promoter (1-2kb)	low	1.56	-0.35	1.76E-05	<i>SLC20A1</i>	
cg10026995	Other Exon	low	0.64	-0.24	6.12E-09	<i>BRSK2</i>	
cg07015886	Promoter (<=1kb)	low	1.56	-0.29	9.69E-07	<i>TLR5</i>	
cg13066481	Other Intron	low	0.92	-0.30	2.55E-05	<i>MYLK</i>	
cg21446172	Other Intron	low	0.77	-0.28	1.75E-06	<i>CAPN8</i>	
cg26530319	Distal Intergenic	low	1.09	-0.41	1.02E-06	<i>HLX</i>	
cg27217742	Other Intron	low	0.77	-0.34	5.26E-08	<i>RGS12</i>	7
cg17758673	Other Intron	low	0.77	-0.56	1.75E-06	<i>RGS12</i>	7
cg24516497	Downstream (<=300)	low	0.77	-0.38	8.09E-08	<i>CYB5D2</i>	7
cg03523740	Promoter (<=1kb)	low	1.56	-0.21	7.70E-06	<i>TXLNA</i>	
cg25276892	Promoter (<=1kb)	low	1.30	-0.52	1.11E-07	<i>TNRC6B</i>	
cg14223135	Distal Intergenic	low	1.30	-0.39	4.79E-08	<i>TPSD1</i>	
cg01056004	Promoter (2-3kb)	low	1.56	-0.43	2.45E-06	<i>SLIT1</i>	
cg01062020	Promoter (<=1kb)	low	0.77	-0.39	1.75E-06	<i>SH2D1B</i>	
cg16629523	Other Intron	low	0.92	-0.29	1.48E-06	<i>CTTN</i>	
cg18103730	Promoter (<=1kb)	low	0.92	-0.56	1.48E-06	<i>GALC</i>	
cg03679544	Promoter (<=1kb)	low	1.56	-0.54	2.45E-08	<i>TIAM2</i>	
cg12492938	Distal Intergenic	low	1.09	-0.36	5.05E-08	<i>LHX5</i>	
cg05798339	Distal Intergenic	low	1.09	-0.42	1.17E-08	<i>SRGAP3</i>	
cg07616394	Promoter (2-3kb)	low	1.44	-0.24	4.02E-06	<i>HHEX</i>	
cg27315497	Promoter (<=1kb)	low	1.56	-0.41	2.45E-06	<i>SLC43A1</i>	
cg26729380	Promoter (<=1kb)	low	1.56	-0.29	8.21E-05	<i>TNF</i>	
cg07107171	Promoter (<=1kb)	low	0.69	-0.27	4.02E-06	<i>TNR</i>	
cg13922669	Promoter (<=1kb)	low	1.30	-0.27	7.13E-07	<i>LUZP2</i>	

cg11405695	Promoter (<=1kb)	low	1.30	-0.33	1.76E-05	<i>ATAD3C</i>	
cg00469897	1st Intron	low	1.56	-0.39	9.90E-07	<i>TNS3</i>	
cg08083041	Promoter (1-2kb)	low	1.30	-0.32	4.61E-07	<i>CEMIP</i>	
cg02237906	Promoter (<=1kb)	low	1.09	-0.44	6.86E-06	<i>RAB37</i>	
cg06398251	Promoter (<=1kb)	low	1.56	-0.34	5.52E-07	<i>EIF4G1</i>	
cg27228413	Distal Intergenic	low	0.92	-0.22	1.48E-06	<i>MRPL46</i>	
cg15541611	Promoter (<=1kb)	low	1.56	-0.34	1.72E-08	<i>C10orf95</i>	8
cg02507296	Promoter (<=1kb)	low	1.56	-0.29	5.45E-08	<i>C10orf95</i>	8
cg13977486	Promoter (<=1kb)	low	1.56	-0.24	2.45E-06	<i>C10orf95</i>	8
cg19268453	Promoter (<=1kb)	low	1.56	-0.27	3.78E-06	<i>HLA-DMB</i>	8
cg27331471	3' UTR	low	0.77	-0.50	1.75E-06	<i>CKM</i>	
cg14086922	Downstream (<=300)	low	1.56	-0.34	1.84E-05	<i>MICAL3</i>	
cg25335557	Distal Intergenic	low	0.83	-0.26	3.09E-06	<i>GBX2</i>	
cg21033675	Promoter (<=1kb)	low	1.30	-0.27	2.17E-06	<i>MRGPRX4</i>	
cg20108357	Promoter (2-3kb)	low	1.30	-0.39	1.42E-05	<i>BDNF</i>	
cg16708938	Downstream (<=300)	low	1.56	-0.26	3.28E-06	<i>SIK1</i>	9
cg14534144	Other Exon	low	1.56	-0.63	8.21E-05	<i>TMCO3</i>	9
cg23167246	Other Exon	low	1.56	-0.64	8.15E-05	<i>TMCO3</i>	9
cg23328404	Promoter (<=1kb)	low	1.56	-0.31	2.45E-06	<i>CSGALNACT1</i>	9
cg03996020	Other Intron	low	1.56	-0.49	2.07E-07	<i>DNAJB6</i>	9
cg01374870	Promoter (<=1kb)	low	1.44	-0.25	1.00E-05	<i>HLA-DMB</i>	
cg24134261	Promoter (<=1kb)	low	1.44	-0.23	3.38E-05	<i>RASGRP3</i>	
cg24175188	Other Intron	low	1.56	-0.38	2.45E-06	<i>PXK</i>	
cg04411041	Promoter (1-2kb)	low	1.30	-0.20	1.11E-07	<i>FAM180B</i>	
cg00343906	Promoter (<=1kb)	low	1.30	-0.38	2.80E-06	<i>NADK</i>	
cg05464008	Other Intron	low	1.56	-0.39	2.45E-06	<i>MCF2L</i>	
cg01289541	Other Intron	low	1.30	-0.25	1.07E-06	<i>SLC7A14</i>	10
cg04688330	Promoter (1-2kb)	low	1.30	-0.23	2.29E-05	<i>SH3PXD2A</i>	10
cg11657817	Promoter (<=1kb)	low	1.56	-0.25	1.55E-06	<i>CST11</i>	11
cg27166581	1st Intron	low	1.56	-0.51	2.45E-06	<i>EFNA3</i>	11

cg25417405	Promoter (<=1kb)	high	1.56	-0.35	1.76E-06	<i>SLC27A2</i>	
cg27166673	Promoter (<=1kb)	high	1.30	-0.55	9.07E-08	<i>ARHGAP6</i>	
cg11362604	Promoter (<=1kb)	high	0.64	-0.34	2.45E-06	<i>MEIS2</i>	
cg04025964	Promoter (1-2kb)	high	1.09	-0.56	1.48E-06	<i>NR5A2</i>	
cg08230177	Distal Intergenic	high	0.92	-0.41	1.48E-06	<i>TMEM174</i>	
cg03926025	Distal Intergenic	high	1.09	-0.32	1.48E-06	<i>HLA-E</i>	
cg02952295	Other Intron	high	1.30	-0.58	1.75E-06	<i>TRPM8</i>	
cg06684850	Promoter (<=1kb)	high	1.56	-0.49	2.45E-06	<i>BDNF</i>	
cg11005845	Promoter (<=1kb)	high	0.77	-0.38	6.51E-06	<i>LDOC1</i>	
cg00603890	Promoter (<=1kb)	high	0.64	-0.47	2.45E-06	<i>CXorf56</i>	12
cg06363801	Promoter (<=1kb)	high	0.64	-0.44	2.45E-06	<i>MOSPD1</i>	12
cg17236781	Promoter (<=1kb)	high	0.64	-0.29	2.45E-06	<i>ZDHHC9</i>	13
cg00264378	Promoter (<=1kb)	high	0.64	-0.48	2.45E-06	<i>CLCN5</i>	13
cg23939077	Promoter (<=1kb)	high	0.64	-0.48	2.45E-06	<i>TSR2</i>	13
cg04297329	Promoter (<=1kb)	high	0.92	-0.44	6.38E-06	<i>NAPIL2</i>	
cg20046330	Promoter (<=1kb)	high	0.77	-0.38	5.10E-06	<i>STMN2</i>	
cg24361761	Other Intron	high	0.67	-0.27	3.76E-06	<i>GPR158</i>	
cg20421446	Distal Intergenic	high	0.64	-0.24	2.45E-06	<i>NRN1</i>	
cg26730416	Distal Intergenic	high	0.64	-0.57	2.45E-06	<i>RRM1</i>	
cg19937979	Promoter (1-2kb)	high	0.64	-0.37	2.90E-07	<i>CCDC177</i>	
cg16927040	Promoter (<=1kb)	high	1.56	-0.41	9.89E-08	<i>SST</i>	
cg05120331	Promoter (<=1kb)	high	1.09	-0.46	1.48E-06	<i>CCNA1</i>	
cg02301364	Promoter (<=1kb)	high	1.56	-0.28	2.45E-06	<i>PRPS1</i>	
cg06628473	Other Intron	high	1.56	-0.25	4.05E-07	<i>MCC</i>	
cg20372230	Distal Intergenic	high	1.30	-0.47	1.75E-06	<i>LEP</i>	
cg13921220	Other Intron	high	0.92	-0.34	1.26E-07	<i>IGSF21</i>	
cg01891172	Promoter (<=1kb)	high	0.77	-0.45	1.75E-06	<i>KLHL34</i>	
cg02218496	Promoter (2-3kb)	high	1.09	-0.33	8.06E-07	<i>DLX1</i>	

cg25556752	Promoter (<=1kb)	high	1.09	-0.38	1.48E-06	<i>CLCN4</i>	
cg13986294	Promoter (2-3kb)	high	1.56	-0.41	2.45E-06	<i>NFIB</i>	
cg01375382	Promoter (<=1kb)	high	1.56	-0.40	2.45E-06	<i>RPS4Y1</i>	14
cg05786601	Promoter (<=1kb)	high	1.56	-0.30	8.21E-05	<i>AR</i>	14
cg09525227	Promoter (<=1kb)	high	1.56	-0.35	2.45E-06	<i>ESX1</i>	
cg11871628	Promoter (1-2kb)	high	0.77	-0.55	1.75E-06	<i>CITED1</i>	
cg03933846	Promoter (<=1kb)	high	1.09	-0.54	1.48E-06	<i>TMSB15A</i>	
cg06289882	Promoter (<=1kb)	high	0.64	-0.64	2.45E-06	<i>RBMX2</i>	
cg13048466	Distal Intergenic	high	0.92	-0.36	4.91E-08	<i>WNT4</i>	
cg10246296	Promoter (<=1kb)	high	0.75	-0.22	1.42E-04	<i>CLCN4</i>	
cg11325578	Promoter (<=1kb)	high	0.64	-0.52	2.45E-06	<i>GPR143</i>	
cg07428004	Distal Intergenic	high	1.30	-0.43	1.25E-07	<i>LEP</i>	
cg03136493	Distal Intergenic	high	1.44	-0.27	4.02E-06	<i>TBXT</i>	
cg14541448	Promoter (1-2kb)	high	1.56	-0.51	2.45E-06	<i>PTCHD1</i>	
cg02838825	Promoter (1-2kb)	high	1.30	-0.43	1.75E-06	<i>TARBP1</i>	
cg15682807	Promoter (<=1kb)	high	1.56	-0.30	2.45E-06	<i>ITM2A</i>	
cg00981643	Promoter (<=1kb)	high	1.09	-0.33	1.09E-07	<i>MECP2</i>	
cg21167269	Distal Intergenic	high	1.10	-0.32	3.95E-05	<i>HSD17B3</i>	
cg05019001	Promoter (2-3kb)	high	1.56	-0.32	2.45E-06	<i>AR</i>	15
cg01479413	Promoter (<=1kb)	high	1.56	-0.37	2.45E-06	<i>ARHGEF6</i>	15
cg10418630	Promoter (<=1kb)	high	0.77	-0.34	1.75E-06	<i>GPC4</i>	16
cg01039990	Distal Intergenic	high	0.77	-0.32	6.69E-06	<i>ZIC3</i>	16
cg16414561	Promoter (<=1kb)	high	0.77	-0.52	6.30E-05	<i>ARX</i>	16
cg23921534	Promoter (<=1kb)	high	0.92	-0.43	5.84E-06	<i>POU3F4</i>	
cg19407410	Promoter (<=1kb)	high	1.56	-0.57	2.45E-06	<i>PCDH19</i>	
cg25073957	Promoter (<=1kb)	high	1.56	-0.43	2.45E-06	<i>RNF128</i>	
cg17875227	Promoter (<=1kb)	high	1.56	-0.21	8.21E-05	<i>MORF4L2</i>	

cg25555657	Promoter (<=1kb)	high	1.30	-0.20	6.30E-05	<i>FTSJ1</i>	17
cg19153710	Promoter (<=1kb)	high	1.30	-0.28	1.75E-06	<i>PHF8</i>	17
cg02728721	Distal Intergenic	high	0.92	-0.33	1.76E-07	<i>LAMP5</i>	
cg24829975	Promoter (<=1kb)	high	1.30	-0.29	1.75E-06	<i>ARMCX3</i>	
cg05782751	Promoter (<=1kb)	high	1.30	-0.24	1.75E-06	<i>MCTS1</i>	18
cg12527112	Promoter (<=1kb)	high	1.30	-0.37	1.75E-06	<i>UPF3B</i>	18
cg03317455	Promoter (<=1kb)	high	1.30	-0.38	1.75E-06	<i>MAOA</i>	18
cg02213813	Promoter (2-3kb)	high	1.30	-0.33	6.30E-05	<i>MAMLD1</i>	18
cg08395108	Promoter (<=1kb)	high	1.30	-0.36	1.75E-06	<i>MAGED2</i>	18
cg19912739	Promoter (<=1kb)	high	1.56	-0.31	8.21E-05	<i>MAMLD1</i>	
cg01212677	Promoter (<=1kb)	high	1.56	-0.35	2.45E-06	<i>PDK3</i>	19
cg12324831	Promoter (<=1kb)	high	1.56	-0.29	8.21E-05	<i>VBPI</i>	19
cg22766145	Promoter (<=1kb)	high	1.30	-0.40	1.66E-07	<i>BHLHE22</i>	
cg25614094	Promoter (<=1kb)	high	1.56	-0.50	5.55E-07	<i>OPRK1</i>	20
cg16491617	Promoter (<=1kb)	high	1.56	-0.49	2.45E-06	<i>OPRK1</i>	20
cg07764473	Promoter (<=1kb)	high	1.30	-0.41	1.42E-05	<i>BCOR</i>	
cg17861230	Promoter (<=1kb)	high	1.56	-0.37	5.17E-07	<i>PDE4C</i>	
cg26142661	Promoter (<=1kb)	high	1.30	-0.44	1.75E-06	<i>ZMAT1</i>	
cg21744850	Promoter (1-2kb)	high	1.09	-0.42	4.92E-06	<i>DGKK</i>	
cg21491240	Promoter (<=1kb)	high	1.56	-0.25	2.45E-06	<i>HTATSF1</i>	21
cg02156782	Promoter (<=1kb)	high	1.56	-0.34	2.45E-06	<i>PPP1R3F</i>	21
cg06211724	Promoter (<=1kb)	high	1.30	-0.38	5.20E-06	<i>LAMC2</i>	
cg05883195	Distal Intergenic	high	0.77	-0.26	2.62E-06	<i>SOX8</i>	
cg08908089	Promoter (<=1kb)	high	1.30	-0.36	2.98E-06	<i>APBA2</i>	
cg09208571	Promoter (<=1kb)	high	1.30	-0.38	6.30E-05	<i>MAGED2</i>	
cg14270434	Promoter (1-2kb)	high	1.30	-0.48	1.75E-06	<i>FOXE1</i>	
cg14091713	Promoter (<=1kb)	high	1.30	-0.32	1.75E-06	<i>RP2</i>	

cg12713960	Distal Intergenic	high	1.56	-0.32	2.45E-06	<i>GLOD5</i>	
cg15075851	Promoter (<=1kb)	high	1.09	-0.41	1.48E-06	<i>HPRT1</i>	
cg18973863	Promoter (<=1kb)	high	0.64	-0.30	2.45E-06	<i>MBNL2</i>	
cg09001953	Promoter (<=1kb)	high	1.09	-0.41	1.48E-06	<i>UFSP2</i>	
cg16235803	Promoter (<=1kb)	high	0.64	-0.39	5.11E-06	<i>WNK3</i>	
cg00583618	Promoter (<=1kb)	high	1.30	-0.41	6.23E-05	<i>MAGIX</i>	22
cg13699152	Promoter (<=1kb)	high	1.30	-0.32	1.75E-06	<i>GK</i>	22
cg01098871	Promoter (<=1kb)	high	1.09	-0.35	1.48E-06	<i>WDR45</i>	
cg03536032	Promoter (<=1kb)	high	0.92	-0.34	1.48E-06	<i>ARHGAP6</i>	
cg22473846	Promoter (<=1kb)	high	1.30	-0.30	3.73E-06	<i>OSMR</i>	
cg16290737	Promoter (<=1kb)	high	1.00	-0.29	2.84E-06	<i>CHGA</i>	
cg16328412	Promoter (<=1kb)	high	0.77	-0.38	3.52E-06	<i>IGSF1</i>	
cg23496314	Promoter (<=1kb)	high	1.30	-0.22	1.75E-06	<i>BCOR</i>	
cg15281331	Distal Intergenic	high	0.64	-0.45	2.45E-06	<i>JAKMIP3</i>	
cg05921207	Promoter (<=1kb)	high	1.56	-0.38	2.45E-06	<i>CHRDL1</i>	
cg13077484	Promoter (<=1kb)	high	1.56	-0.44	2.45E-06	<i>DLG3</i>	23
cg07210835	Promoter (<=1kb)	high	1.56	-0.26	8.18E-05	<i>PLP2</i>	23
cg27404676	Promoter (<=1kb)	high	1.56	-0.52	2.45E-06	<i>TENT5D</i>	
cg07351143	Distal Intergenic	high	1.56	-0.34	2.45E-06	<i>SPAG6</i>	
cg10578938	Promoter (<=1kb)	high	1.63	-0.26	9.83E-06	<i>CYFIP2</i>	
cg15211677	Promoter (<=1kb)	high	1.56	-0.31	2.45E-06	<i>TCEAL9</i>	
cg00180631	Promoter (<=1kb)	high	1.30	-0.42	1.75E-06	<i>MTM1</i>	
cg18452799	Promoter (<=1kb)	high	1.56	-0.29	2.45E-06	<i>TRMT2B</i>	
cg16930349	Promoter (<=1kb)	high	1.30	-0.22	1.75E-06	<i>GRIPAP1</i>	
cg18742441	Promoter (<=1kb)	high	1.30	-0.34	6.30E-05	<i>ATP6AP1</i>	24
cg21887683	Promoter (<=1kb)	high	1.30	-0.35	6.30E-05	<i>HTATSF1</i>	24
cg16391404	Promoter (<=1kb)	high	1.30	-0.29	1.75E-06	<i>ZNF711</i>	24

cg01191902	Promoter (<=1kb)	high	1.30	-0.36	1.75E-06	<i>PRAF2</i>	
cg15322420	Promoter (<=1kb)	high	1.30	-0.36	6.30E-05	<i>MORF4L2</i>	
cg10848980	Promoter (<=1kb)	high	1.56	-0.31	2.45E-06	<i>PRAF2</i>	
cg03165176	5' UTR	high	1.56	-0.24	2.45E-06	<i>APC2</i>	
cg18556676	Promoter (<=1kb)	high	1.30	-0.31	1.04E-05	<i>ABCC9</i>	
cg05855948	Promoter (2-3kb)	high	1.30	-0.48	1.75E-06	<i>KCTD1</i>	
cg01488378	Promoter (<=1kb)	high	1.56	-0.28	8.21E-05	<i>SLC35A2</i>	
cg07903918	Promoter (<=1kb)	high	1.09	-0.30	1.48E-06	<i>GABBR2</i>	
cg13879937	Promoter (<=1kb)	high	0.64	-0.27	2.45E-06	<i>EHD4</i>	
cg00698744	Distal Intergenic	high	1.09	-0.25	1.48E-06	<i>TSPYL2</i>	
cg06068202	Promoter (1-2kb)	high	1.09	-0.48	1.48E-06	<i>GPR50</i>	25
cg00227584	Distal Intergenic	high	1.09	-0.52	1.48E-06	<i>TSPYL2</i>	25
cg13822691	Promoter (<=1kb)	high	1.09	-0.45	1.48E-06	<i>MSN</i>	25
cg20880647	Promoter (<=1kb)	high	1.09	-0.43	1.48E-06	<i>RNF128</i>	25
cg15788661	Promoter (<=1kb)	high	1.09	-0.45	1.48E-06	<i>FAM155B</i>	25
cg15706156	Promoter (<=1kb)	high	1.09	-0.36	5.52E-05	<i>GABRQ</i>	25
cg07320017	Promoter (<=1kb)	high	1.09	-0.30	1.48E-06	<i>MCF2</i>	25
cg17973147	Promoter (<=1kb)	high	1.09	-0.29	1.48E-06	<i>JADE3</i>	25
cg09443457	Distal Intergenic	high	1.09	-0.40	1.71E-08	<i>FAM47C</i>	25
cg02116333	Promoter (<=1kb)	high	1.09	-0.34	1.48E-06	<i>HSD17B10</i>	25
cg06650776	Promoter (<=1kb)	high	1.09	-0.51	1.48E-06	<i>BEX3</i>	25
cg02938958	Other Exon	high	1.09	-0.48	1.48E-06	<i>ARX</i>	25
cg01353788	Promoter (<=1kb)	high	1.09	-0.43	1.48E-06	<i>AFF2</i>	25
cg15050093	Promoter (<=1kb)	high	1.09	-0.42	1.48E-06	<i>RPL39</i>	25
cg14022645	Promoter (<=1kb)	high	1.09	-0.29	5.52E-05	<i>TFE3</i>	25
cg19679687	Promoter (<=1kb)	high	1.09	-0.37	6.60E-08	<i>LANCL3</i>	25
cg23050981	Promoter (<=1kb)	high	1.09	-0.22	1.48E-06	<i>LICAM</i>	25

cg26583344	Promoter (1-2kb)	high	1.30	-0.30	1.75E-06	<i>TMEM255A</i>	26
cg23694557	Promoter (<=1kb)	high	1.30	-0.46	1.75E-06	<i>IGSF1</i>	26
cg09970175	Promoter (<=1kb)	high	0.77	-0.45	1.75E-06	<i>SEMA6D</i>	
cg19736647	Promoter (<=1kb)	high	1.56	-0.34	2.45E-06	<i>AIFM1</i>	
cg10994149	Downstream (<=300)	high	0.92	-0.48	1.48E-06	<i>ANXA2R</i>	
cg00398130	Promoter (2-3kb)	high	1.09	-0.37	4.15E-06	<i>STMN2</i>	
cg13183496	Promoter (<=1kb)	high	0.92	-0.42	1.48E-06	<i>FAM120C</i>	27
cg08100265	Promoter (<=1kb)	high	0.92	-0.36	1.48E-06	<i>THOC2</i>	27
cg00687135	Promoter (<=1kb)	high	1.56	-0.38	3.93E-07	<i>ZNF385D</i>	
cg02279124	Promoter (<=1kb)	high	0.64	-0.25	2.91E-06	<i>SRPK3</i>	
cg07390463	Distal Intergenic	high	1.56	-0.37	2.45E-06	<i>ALG10</i>	
cg04474375	Promoter (<=1kb)	high	0.77	-0.41	1.75E-06	<i>FGF13</i>	
cg00177239	Promoter (<=1kb)	high	1.56	-0.33	2.45E-06	<i>FAM160B1</i>	
cg14232291	Promoter (<=1kb)	high	1.09	-0.41	4.63E-05	<i>KLHL34</i>	
cg18747090	Promoter (<=1kb)	high	1.09	-0.52	1.48E-06	<i>PNPLA4</i>	
cg13072112	Promoter (1-2kb)	high	1.09	-0.40	1.48E-06	<i>SOX3</i>	28
cg01908395	Distal Intergenic	high	1.09	-0.34	8.37E-06	<i>MSX2</i>	28
cg24648715	Promoter (<=1kb)	high	1.00	-0.25	2.84E-06	<i>TCEAL3</i>	
cg17407511	Promoter (<=1kb)	high	1.30	-0.38	2.26E-07	<i>SRPX</i>	
cg05926586	Other Intron	high	1.10	-0.20	5.67E-06	<i>CCDC33</i>	
cg01003197	Promoter (<=1kb)	high	1.30	-0.50	1.75E-06	<i>OPHN1</i>	29
cg06943593	Other Intron	high	1.30	-0.34	6.30E-05	<i>ARX</i>	29
cg15024277	Promoter (<=1kb)	high	1.30	-0.39	1.75E-06	<i>BEX3</i>	29
cg24139895	Promoter (<=1kb)	high	1.30	-0.28	1.75E-06	<i>NXT2</i>	29
cg18134562	Promoter (<=1kb)	high	0.92	-0.47	1.48E-06	<i>PLS3</i>	
cg25052176	Promoter (1-2kb)	high	0.92	-0.50	1.48E-06	<i>WNK3</i>	
cg07758529	Promoter (2-3kb)	high	1.09	-0.54	1.48E-06	<i>IL1RAPL2</i>	
cg14156792	Other Intron	high	1.56	-0.37	7.63E-06	<i>SAMD11</i>	

cg14499563	Promoter (<=1kb)	high	1.56	-0.45	1.98E-06	<i>CCNA1</i>	
cg06228453	Promoter (<=1kb)	high	0.64	-0.48	2.45E-06	<i>MORC4</i>	30
cg25127732	Promoter (<=1kb)	high	0.64	-0.33	1.30E-05	<i>KLHL34</i>	30
cg20950264	Other Intron	high	0.77	-0.26	1.55E-07	<i>EFNB1</i>	
cg16639692	Promoter (2-3kb)	high	1.56	-0.45	2.45E-06	<i>ANXA2R</i>	
cg15395971	Promoter (2-3kb)	high	1.30	-0.37	1.69E-06	<i>F3</i>	
cg21477075	Other Intron	high	1.56	-0.22	8.21E-05	<i>KIF25</i>	
cg22696549	Promoter (<=1kb)	high	0.77	-0.32	1.75E-06	<i>NROB1</i>	
cg20710266	Promoter (1-2kb)	high	1.30	-0.38	2.99E-07	<i>NR2F2</i>	
cg20371650	Promoter (<=1kb)	high	0.64	-0.32	2.45E-06	<i>PRAF2</i>	
cg15718594	Promoter (1-2kb)	low	1.20	-0.23	3.09E-06	<i>BATF3</i>	
cg10349687	Distal Intergenic	low	1.44	-0.24	7.09E-07	<i>DNAJB6</i>	
cg04267772	Promoter (<=1kb)	low	1.09	-0.43	2.77E-07	<i>CARHSP1</i>	
cg11311332	Distal Intergenic	low	0.92	-0.38	1.48E-06	<i>PODXL</i>	
cg21606490	3' UTR	low	0.92	-0.45	1.48E-06	<i>NTNG1</i>	
cg03112433	Promoter (<=1kb)	high	1.09	-0.45	9.57E-07	<i>CDK14</i>	
cg07924081	Promoter (2-3kb)	low	1.56	-0.20	2.45E-06	<i>PPP1R13L</i>	
cg24630778	Promoter (2-3kb)	low	1.00	-0.32	2.84E-06	<i>GALNT9</i>	
cg26307359	Promoter (<=1kb)	low	1.30	-0.48	1.75E-06	<i>SEZ6</i>	
cg02311725	Promoter (<=1kb)	high	1.56	-0.28	8.31E-06	<i>HCK</i>	
cg08118344	Other Intron	low	0.92	-0.26	2.76E-07	<i>RAP1GAP</i>	
cg01353586	Promoter (<=1kb)	low	1.00	-0.23	2.84E-06	<i>HS3ST4</i>	
cg12024530	Promoter (<=1kb)	low	1.56	-0.36	2.50E-08	<i>C12orf10</i>	
cg03975922	Promoter (<=1kb)	low	1.09	-0.27	5.64E-07	<i>ZMAT2</i>	
cg27557428	Promoter (<=1kb)	low	1.20	-0.22	3.09E-06	<i>TMEM9</i>	
cg16322565	Other Exon	low	1.56	-0.33	5.14E-07	<i>NR1I2</i>	
cg26135172	Distal Intergenic	low	1.30	-0.27	1.75E-06	<i>LIMD1</i>	
cg21454485	1st Intron	low	1.30	-0.28	9.18E-06	<i>CD84</i>	
cg02568531	Promoter (1-2kb)	low	1.56	-0.37	1.58E-06	<i>PNPLA2</i>	

cg05448271	1st Intron	high	0.83	-0.24	3.09E-06	<i>KLF6</i>	
cg12857702	Promoter (<=1kb)	high	1.56	-0.32	2.45E-06	<i>ATRX</i>	
cg01032398	Promoter (<=1kb)	low	1.56	-0.23	4.28E-07	<i>APOE</i>	
cg15378486	Distal Intergenic	low	1.56	-0.32	8.71E-08	<i>FSCN2</i>	
cg15320998	Promoter (<=1kb)	high	1.56	-0.41	2.45E-06	<i>ZNF212</i>	
cg11792874	Other Intron	low	1.56	-0.27	3.47E-06	<i>ZFHX2</i>	31
cg00926657	Promoter (<=1kb)	low	1.56	-0.47	8.21E-05	<i>MAFG</i>	31

**Annex XV The remaining 17 identified genes whose gene expression were able to predict survival in patients with AML-M5 categorized in the intermediate prognostic risk group.**

<b>Gene</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>
<i>AQP11</i>	0.0243	4.4296	6	9	0.5157	4.0034
<i>WDR36</i>	0.0246	10.2089	8	8	0.4939	3.9321
<i>CTAGE6</i>	0.0246	0.9845	8	8	0.3710	3.9321
<i>CSMD1</i>	0.0433	3.9458	7	9	0.9155	3.3080
<i>ATP6V0E1</i>	0.0427	11.5052	8	7	0.4171	0.2784
<i>USHBP1</i>	0.0427	0.8465	8	7	0.6428	0.2784
<i>RNASET2</i>	0.0233	11.1725	9	7	0.3397	0.2583
<i>SARAF</i>	0.0246	12.0394	8	8	0.2926	0.2543
<i>ZBP1</i>	0.0246	5.2369	8	8	0.4939	0.2543
<i>ABAT</i>	0.0295	8.7918	7	9	1.0000	0.2449
<i>GDE1</i>	0.0113	10.7249	8	8	0.7126	0.1955
<i>MEI1</i>	0.0079	7.6111	7	9	0.5958	0.1803
<i>SKAP2</i>	0.0189	11.8406	6	9	0.5949	0.1752
<i>B2M</i>	0.0086	15.5936	7	9	0.7908	0.1476
<i>TXNDC12</i>	0.0023	10.6061	8	8	1.0000	0.1471
<i>ATP6V1G1</i>	0.0004	10.2707	8	8	0.9162	0.0550
<i>PPP1R2</i>	0.0002	9.9615	8	6	1.0000	0.0467

**Annex XVI Additional information about the 32 candidate biomarkers of prognostic of gene expression in patients with AML-M5 categorized in the intermediate prognostic risk group.**

<b>gene</b>	<b>status</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>bibliographic</b>
<i>TTC30B</i>	low	1.00	0.37	0.0002	non-AML leukemia types
<i>FNTB</i>	low	1.00	0.33	0.0002	non-leukemia cancer types
<i>CDKN2AIP</i>	low	0.78	0.33	0.0002	non-AML leukemia types
<i>VANGL1</i>	low	0.88	0.33	0.0003	non-AML leukemia types
<i>ATN1</i>	low	1.29	0.31	0.0002	non-AML leukemia types
<i>AMACR</i>	low	1.29	0.36	0.0002	non-AML leukemia types
<i>PLA2G4A</i>	low	1.00	0.33	0.0006	cited in AML
<i>TBX4</i>	low	0.67	-Inf	0.0004	non-leukemia cancer types
<i>ABRAXAS2</i>	low	0.67	0.35	0.0004	non-leukemia cancer types
<i>C9orf3</i>	low	1.00	0.38	0.0002	non-leukemia cancer types
<i>RTTN</i>	low	1.29	0.34	0.0002	non-leukemia cancer types
<i>ZNF625</i>	low	1.14	0.34	0.0002	non-leukemia cancer types
<i>FANK1</i>	low	1.14	0.33	0.0001	non-leukemia cancer types
<i>CDH24</i>	low	1.29	0.36	0.0006	non-leukemia cancer types
<i>ZSCAN20</i>	low	1.29	0.39	0.0002	cited in PubMed
<i>AQP11</i>	low	0.67	0.40	0.0004	non-leukemia cancer types
<i>WDR36</i>	low	1.00	0.31	0.0002	non-AML leukemia types
<i>CTAGE6</i>	low	1.00	-0.69	0.0003	never cited
<i>CSMD1</i>	low	0.78	0.14	0.0001	cited in AML
<i>ATP6V0E1</i>	high	1.14	0.30	0.0003	non-leukemia cancer types
<i>USHBP1</i>	high	1.14	-0.51	0.0013	cited in PubMed
<i>RNASET2</i>	high	1.29	0.30	0.0002	non-AML leukemia types
<i>SARAF</i>	high	1.00	0.29	0.0002	cited in AML
<i>ZBP1</i>	high	1.00	0.36	0.0002	non-leukemia cancer types
<i>ABAT</i>	high	0.78	0.32	0.0000	cited in AML
<i>GDE1</i>	high	1.00	0.31	0.0002	non-leukemia cancer types
<i>MEI1</i>	high	0.78	0.35	0.0002	non-leukemia cancer types
<i>SKAP2</i>	high	0.67	0.29	0.0004	cited in AML
<i>B2M</i>	high	0.78	0.24	0.0002	cited in AML
<i>TXNDC12</i>	high	1.00	0.31	0.0002	non-leukemia cancer types
<i>ATP6V1G1</i>	high	1.00	0.31	0.0002	non-leukemia cancer types
<i>PPP1R2</i>	high	1.33	0.32	0.0007	non-leukemia cancer types

**Annex XVII List of the gene sets shared by the majority of the intermediate-poor AML-M5 that were differentially enriched in comparison with the intermediate-favorable subgroups.** For each gene set is represented the number and the percentage of intermediate-poor subgroups that have the gene sets enriched (n and percentage), a representative *p-value* and the status (upregulated (up) or downregulated (down)).

Set	n	Percentage	<i>p-value</i>	Status
GO:0044782 cilium organization	31	100	0.0001	Up
GO:0042073 intraciliary transport	31	100	0.0002	Up
GO:0098840 protein transport along microtubule	31	100	0.0004	Up
GO:0099118 microtubule-based protein transport	31	100	0.0004	Up
GO:0061512 protein localization to cilium	31	100	0.0004	Up
GO:0035082 axoneme assembly	31	100	0.0006	Up
GO:0001578 microtubule bundle formation	31	100	0.0010	Up
GO:0035735 intraciliary transport involved in cilium assembly	31	100	0.0011	Up
GO:0010970 transport along microtubule	31	100	0.0012	Up
GO:0099111 microtubule-based transport	31	100	0.0012	Up
GO:0060271 cilium assembly	31	100	0.0018	Up
GO:0030705 cytoskeleton-dependent intracellular transport	31	100	0.0018	Up
GO:1905349 ciliary transition zone assembly	31	100	0.0063	Up
GO:0048199 vesicle targeting, to, from or within Golgi	31	100	0.0064	Up
GO:0097712 vesicle targeting, trans-Golgi to periciliary membrane compartment	31	100	0.0073	Up
GO:0006903 vesicle targeting	31	100	0.0095	Up
GO:0007224 smoothed signaling pathway	31	100	0.0280	Up
GO:0008589 regulation of smoothed signaling pathway	31	100	0.0336	Up
GO:0051650 establishment of vesicle localization	31	100	0.0447	Up
GO:0009953 dorsal/ventral pattern formation	31	100	0.0476	Up
GO:0007281 germ cell development	30	97	0.0434	Up
GO:0007286 spermatid development	30	97	0.0471	Up
GO:0098681 synaptic ribbon	29	94	0.0180	Up
GO:0045880 positive regulation of smoothed signaling pathway	29	94	0.0314	Up
GO:0007368 determination of left/right symmetry	29	94	0.0355	Up
GO:0003351 epithelial cilium movement involved in extracellular fluid movement	29	94	0.0406	Up
GO:0009799 specification of symmetry	29	94	0.0457	Up
GO:0009855 determination of bilateral symmetry	29	94	0.0465	Up
GO:0048515 spermatid differentiation	29	94	0.0470	Up
GO:0009063 cellular amino acid catabolic process	29	94	0.0482	Up
GO:0003341 cilium movement	28	90	0.0441	Up
GO:0019882 antigen processing and presentation	31	100	0.0002	Down
GO:0048002 antigen processing and presentation of peptide antigen	31	100	0.0007	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0019884 antigen processing and presentation of exogenous antigen	31	100	0.0012	Down
GO:0002478 antigen processing and presentation of exogenous peptide antigen	31	100	0.0029	Down
GO:0097478 leaflet of membrane bilayer	31	100	0.0033	Down
GO:0060333 interferon-gamma-mediated signaling pathway	31	100	0.0036	Down
GO:0070098 chemokine-mediated signaling pathway	31	100	0.0055	Down
GO:1990868 response to chemokine	31	100	0.0057	Down
GO:1990869 cellular response to chemokine	31	100	0.0057	Down
GO:0002504 antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	31	100	0.0058	Down
GO:0019886 antigen processing and presentation of exogenous peptide antigen via MHC class II	31	100	0.0064	Down
GO:0002495 antigen processing and presentation of peptide antigen via MHC class II	31	100	0.0065	Down
GO:0034341 response to interferon-gamma	31	100	0.0069	Down
GO:2000106 regulation of leukocyte apoptotic process	31	100	0.0110	Down
GO:0071346 cellular response to interferon-gamma	31	100	0.0111	Down
GO:0030593 neutrophil chemotaxis	31	100	0.0124	Down
GO:0007159 leukocyte cell-cell adhesion	31	100	0.0125	Down
GO:1901215 negative regulation of neuron death	31	100	0.0151	Down
GO:1902894 negative regulation of pri-miRNA transcription by RNA polymerase II	31	100	0.0191	Down
GO:1990266 neutrophil migration	31	100	0.0192	Down
GO:0050852 T cell receptor signaling pathway	31	100	0.0208	Down
GO:0010959 regulation of metal ion transport	31	100	0.0208	Down
GO:0050851 antigen receptor-mediated signaling pathway	31	100	0.0215	Down
GO:0022407 regulation of cell-cell adhesion	31	100	0.0264	Down
GO:2000107 negative regulation of leukocyte apoptotic process	31	100	0.0274	Down
GO:1903037 regulation of leukocyte cell-cell adhesion	31	100	0.0327	Down
GO:0050792 regulation of viral process	31	100	0.0338	Down
GO:0050870 positive regulation of T cell activation	31	100	0.0348	Down
GO:0006816 calcium ion transport	31	100	0.0351	Down
GO:0046633 alpha-beta T cell proliferation	31	100	0.0371	Down
GO:1903039 positive regulation of leukocyte cell-cell adhesion	31	100	0.0388	Down
GO:0046640 regulation of alpha-beta T cell proliferation	31	100	0.0403	Down
GO:0043903 regulation of symbiosis, encompassing mutualism through parasitism	31	100	0.0406	Down
GO:0046641 positive regulation of alpha-beta T cell proliferation	31	100	0.0417	Down
GO:2001026 regulation of endothelial cell chemotaxis	31	100	0.0431	Down
GO:0042102 positive regulation of T cell proliferation	31	100	0.0432	Down
GO:0002250 adaptive immune response	31	100	0.0448	Down

Set	n	Percentage	p-value	Status
GO:0090022 regulation of neutrophil chemotaxis	31	100	0.0452	Down
GO:0022409 positive regulation of cell-cell adhesion	31	100	0.0456	Down
GO:2001028 positive regulation of endothelial cell chemotaxis	31	100	0.0469	Down
GO:0002253 activation of immune response	30	97	0.0000	Down
GO:0002429 immune response-activating cell surface receptor signaling pathway	30	97	0.0000	Down
GO:0002757 immune response-activating signal transduction	30	97	0.0000	Down
GO:0002768 immune response-regulating cell surface receptor signaling pathway	30	97	0.0000	Down
GO:0002764 immune response-regulating signaling pathway	30	97	0.0000	Down
GO:0002697 regulation of immune effector process	30	97	0.0000	Down
GO:0042110 T cell activation	30	97	0.0000	Down
GO:0051249 regulation of lymphocyte activation	30	97	0.0000	Down
GO:0060326 cell chemotaxis	30	97	0.0000	Down
GO:0050863 regulation of T cell activation	30	97	0.0000	Down
GO:0032103 positive regulation of response to external stimulus	30	97	0.0000	Down
GO:0002694 regulation of leukocyte activation	30	97	0.0000	Down
GO:0002460 adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	30	97	0.0001	Down
GO:0032943 mononuclear cell proliferation	30	97	0.0001	Down
GO:0002831 regulation of response to biotic stimulus	30	97	0.0001	Down
GO:0002683 negative regulation of immune system process	30	97	0.0001	Down
GO:0071216 cellular response to biotic stimulus	30	97	0.0001	Down
GO:0002696 positive regulation of leukocyte activation	30	97	0.0001	Down
GO:0009617 response to bacterium	30	97	0.0001	Down
GO:0046651 lymphocyte proliferation	30	97	0.0001	Down
GO:0050670 regulation of lymphocyte proliferation	30	97	0.0001	Down
GO:0050867 positive regulation of cell activation	30	97	0.0001	Down
GO:0032944 regulation of mononuclear cell proliferation	30	97	0.0001	Down
GO:0002521 leukocyte differentiation	30	97	0.0001	Down
GO:0030595 leukocyte chemotaxis	30	97	0.0001	Down
GO:0070663 regulation of leukocyte proliferation	30	97	0.0002	Down
GO:0045785 positive regulation of cell adhesion	30	97	0.0002	Down
GO:0032496 response to lipopolysaccharide	30	97	0.0002	Down
GO:0051251 positive regulation of lymphocyte activation	30	97	0.0002	Down
GO:0002237 response to molecule of bacterial origin	30	97	0.0002	Down
GO:0071219 cellular response to molecule of bacterial origin	30	97	0.0002	Down
GO:0002449 lymphocyte mediated immunity	30	97	0.0002	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0070661 leukocyte proliferation	30	97	0.0002	Down
GO:0071621 granulocyte chemotaxis	30	97	0.0002	Down
GO:0042129 regulation of T cell proliferation	30	97	0.0002	Down
GO:0042098 T cell proliferation	30	97	0.0003	Down
GO:0071222 cellular response to lipopolysaccharide	30	97	0.0003	Down
GO:0030449 regulation of complement activation	30	97	0.0004	Down
GO:0002920 regulation of humoral immune response	30	97	0.0005	Down
GO:0022408 negative regulation of cell-cell adhesion	30	97	0.0006	Down
GO:0140375 immune receptor activity	30	97	0.0008	Down
GO:0050777 negative regulation of immune response	30	97	0.0008	Down
GO:0031349 positive regulation of defense response	30	97	0.0009	Down
GO:0001819 positive regulation of cytokine production	30	97	0.0010	Down
GO:0006909 phagocytosis	30	97	0.0010	Down
GO:0019724 B cell mediated immunity	30	97	0.0011	Down
GO:1903038 negative regulation of leukocyte cell-cell adhesion	30	97	0.0011	Down
GO:0097530 granulocyte migration	30	97	0.0013	Down
GO:0097529 myeloid leukocyte migration	30	97	0.0013	Down
GO:1902107 positive regulation of leukocyte differentiation	30	97	0.0014	Down
GO:0050900 leukocyte migration	30	97	0.0014	Down
GO:0002698 negative regulation of immune effector process	30	97	0.0014	Down
GO:0002224 toll-like receptor signaling pathway	30	97	0.0017	Down
GO:1902105 regulation of leukocyte differentiation	30	97	0.0017	Down
GO:0002221 pattern recognition receptor signaling pathway	30	97	0.0017	Down
GO:0016064 immunoglobulin mediated immune response	30	97	0.0022	Down
GO:0006959 humoral immune response	30	97	0.0022	Down
GO:0030098 lymphocyte differentiation	30	97	0.0026	Down
GO:0046634 regulation of alpha-beta T cell activation	30	97	0.0028	Down
GO:0046631 alpha-beta T cell activation	30	97	0.0030	Down
GO:0050727 regulation of inflammatory response	30	97	0.0030	Down
GO:0050868 negative regulation of T cell activation	30	97	0.0033	Down
GO:0070374 positive regulation of ERK1 and ERK2 cascade	30	97	0.0033	Down
GO:0045088 regulation of innate immune response	30	97	0.0034	Down
GO:0002819 regulation of adaptive immune response	30	97	0.0035	Down
GO:0050921 positive regulation of chemotaxis	30	97	0.0036	Down
GO:0007162 negative regulation of cell adhesion	30	97	0.0036	Down
GO:0031341 regulation of cell killing	30	97	0.0037	Down
GO:0070372 regulation of ERK1 and ERK2 cascade	30	97	0.0038	Down
GO:0050671 positive regulation of lymphocyte proliferation	30	97	0.0040	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0032649 regulation of interferon-gamma production	30	97	0.0040	Down
GO:0002688 regulation of leukocyte chemotaxis	30	97	0.0045	Down
GO:0070665 positive regulation of leukocyte proliferation	30	97	0.0046	Down
GO:0050729 positive regulation of inflammatory response	30	97	0.0047	Down
GO:0032102 negative regulation of response to external stimulus	30	97	0.0047	Down
GO:0032946 positive regulation of mononuclear cell proliferation	30	97	0.0048	Down
GO:1903706 regulation of hemopoiesis	30	97	0.0049	Down
GO:0070371 ERK1 and ERK2 cascade	30	97	0.0051	Down
GO:0050730 regulation of peptidyl-tyrosine phosphorylation	30	97	0.0051	Down
GO:0002822 regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	30	97	0.0053	Down
GO:0002704 negative regulation of leukocyte mediated immunity	30	97	0.0054	Down
GO:0001910 regulation of leukocyte mediated cytotoxicity	30	97	0.0057	Down
GO:0150146 cell junction disassembly	30	97	0.0060	Down
GO:0046637 regulation of alpha-beta T cell differentiation	30	97	0.0061	Down
GO:0007249 I-kappaB kinase/NF-kappaB signaling	30	97	0.0064	Down
GO:0002699 positive regulation of immune effector process	30	97	0.0064	Down
GO:0050920 regulation of chemotaxis	30	97	0.0065	Down
GO:0050866 negative regulation of cell activation	30	97	0.0065	Down
GO:0050764 regulation of phagocytosis	30	97	0.0070	Down
GO:0006956 complement activation	30	97	0.0079	Down
GO:0010506 regulation of autophagy	30	97	0.0085	Down
GO:0018108 peptidyl-tyrosine phosphorylation	30	97	0.0085	Down
GO:0002755 MyD88-dependent toll-like receptor signaling pathway	30	97	0.0088	Down
GO:0032609 interferon-gamma production	30	97	0.0088	Down
GO:0002703 regulation of leukocyte mediated immunity	30	97	0.0088	Down
GO:0032729 positive regulation of interferon-gamma production	30	97	0.0089	Down
GO:0051250 negative regulation of lymphocyte activation	30	97	0.0089	Down
GO:0002455 humoral immune response mediated by circulating immunoglobulin	30	97	0.0091	Down
GO:0043542 endothelial cell migration	30	97	0.0092	Down
GO:0071706 tumor necrosis factor superfamily cytokine production	30	97	0.0093	Down
GO:0050663 cytokine secretion	30	97	0.0094	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>Status</b>
GO:1903555 regulation of tumor necrosis factor superfamily cytokine production	30	97	0.0097	Down
GO:0009615 response to virus	30	97	0.0099	Down
GO:0051767 nitric-oxide synthase biosynthetic process	30	97	0.0099	Down
GO:0051769 regulation of nitric-oxide synthase biosynthetic process	30	97	0.0099	Down
GO:0045582 positive regulation of T cell differentiation	30	97	0.0100	Down
GO:0042533 tumor necrosis factor biosynthetic process	30	97	0.0104	Down
GO:0042534 regulation of tumor necrosis factor biosynthetic process	30	97	0.0104	Down
GO:0030217 T cell differentiation	30	97	0.0104	Down
GO:0046635 positive regulation of alpha-beta T cell activation	30	97	0.0105	Down
GO:0002706 regulation of lymphocyte mediated immunity	30	97	0.0105	Down
GO:0001525 angiogenesis	30	97	0.0108	Down
GO:0032640 tumor necrosis factor production	30	97	0.0109	Down
GO:0032680 regulation of tumor necrosis factor production	30	97	0.0109	Down
GO:0002695 negative regulation of leukocyte activation	30	97	0.0109	Down
GO:0042107 cytokine metabolic process	30	97	0.0111	Down
GO:0018212 peptidyl-tyrosine modification	30	97	0.0111	Down
GO:0006958 complement activation, classical pathway	30	97	0.0112	Down
GO:0006874 cellular calcium ion homeostasis	30	97	0.0114	Down
GO:0002285 lymphocyte activation involved in immune response	30	97	0.0114	Down
GO:0043123 positive regulation of I-kappaB kinase/NF-kappaB signaling	30	97	0.0117	Down
GO:0035767 endothelial cell chemotaxis	30	97	0.0121	Down
GO:0051480 regulation of cytosolic calcium ion concentration	30	97	0.0122	Down
GO:0032092 positive regulation of protein binding	30	97	0.0123	Down
GO:0046632 alpha-beta T cell differentiation	30	97	0.0124	Down
GO:0051607 defense response to virus	30	97	0.0130	Down
GO:0071887 leukocyte apoptotic process	30	97	0.0132	Down
GO:0045621 positive regulation of lymphocyte differentiation	30	97	0.0136	Down
GO:0045619 regulation of lymphocyte differentiation	30	97	0.0139	Down
GO:0001818 negative regulation of cytokine production	30	97	0.0140	Down
GO:0042089 cytokine biosynthetic process	30	97	0.0140	Down
GO:0007204 positive regulation of cytosolic calcium ion concentration	30	97	0.0140	Down
GO:0055074 calcium ion homeostasis	30	97	0.0141	Down
GO:0001936 regulation of endothelial cell proliferation	30	97	0.0142	Down
GO:0072376 protein activation cascade	30	97	0.0152	Down
GO:0002286 T cell activation involved in immune response	30	97	0.0153	Down

Set	n	Percentage	p-value	Status
GO:0043122 regulation of I-kappaB kinase/NF-kappaB signaling	30	97	0.0153	Down
GO:0042035 regulation of cytokine biosynthetic process	30	97	0.0159	Down
GO:0009595 detection of biotic stimulus	30	97	0.0161	Down
GO:0098883 synapse pruning	30	97	0.0162	Down
GO:0002292 T cell differentiation involved in immune response	30	97	0.0169	Down
GO:0031348 negative regulation of defense response	30	97	0.0176	Down
GO:0070664 negative regulation of leukocyte proliferation	30	97	0.0182	Down
GO:0006914 autophagy	30	97	0.0182	Down
GO:0061919 process utilizing autophagic mechanism	30	97	0.0182	Down
GO:0002707 negative regulation of lymphocyte mediated immunity	30	97	0.0182	Down
GO:0031343 positive regulation of cell killing	30	97	0.0184	Down
GO:0002823 negative regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	30	97	0.0187	Down
GO:0030546 signaling receptor activator activity	30	97	0.0187	Down
GO:0043491 protein kinase B signaling	30	97	0.0195	Down
GO:0072503 cellular divalent inorganic cation homeostasis	30	97	0.0195	Down
GO:0097191 extrinsic apoptotic signaling pathway	30	97	0.0196	Down
GO:0002690 positive regulation of leukocyte chemotaxis	30	97	0.0202	Down
GO:0032606 type I interferon production	30	97	0.0203	Down
GO:0002820 negative regulation of adaptive immune response	30	97	0.0203	Down
GO:0009895 negative regulation of catabolic process	30	97	0.0204	Down
GO:1905897 regulation of response to endoplasmic reticulum stress	30	97	0.0207	Down
GO:0032615 interleukin-12 production	30	97	0.0207	Down
GO:0007033 vacuole organization	30	97	0.0208	Down
GO:0061097 regulation of protein tyrosine kinase activity	30	97	0.0212	Down
GO:0032655 regulation of interleukin-12 production	30	97	0.0214	Down
GO:0002291 T cell activation via T cell receptor contact with antigen bound to MHC molecule on antigen presenting cell	30	97	0.0215	Down
GO:0032479 regulation of type I interferon production	30	97	0.0217	Down
GO:0045730 respiratory burst	30	97	0.0221	Down
GO:0002431 Fc receptor mediated stimulatory signaling pathway	30	97	0.0223	Down
GO:0072507 divalent inorganic cation homeostasis	30	97	0.0236	Down
GO:0071622 regulation of granulocyte chemotaxis	30	97	0.0246	Down
GO:0001916 positive regulation of T cell mediated cytotoxicity	30	97	0.0247	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>Status</b>
GO:0070228 regulation of lymphocyte apoptotic process	30	97	0.0248	Down
GO:0019722 calcium-mediated signaling	30	97	0.0254	Down
GO:0051924 regulation of calcium ion transport	30	97	0.0254	Down
GO:0050688 regulation of defense response to virus	30	97	0.0261	Down
GO:0072148 epithelial cell fate commitment	30	97	0.0263	Down
GO:0051092 positive regulation of NF-kappaB transcription factor activity	30	97	0.0264	Down
GO:0045580 regulation of T cell differentiation	30	97	0.0270	Down
GO:0043370 regulation of CD4-positive, alpha-beta T cell differentiation	30	97	0.0272	Down
GO:2000146 negative regulation of cell motility	30	97	0.0273	Down
GO:2000516 positive regulation of CD4-positive, alpha-beta T cell activation	30	97	0.0274	Down
GO:0001914 regulation of T cell mediated cytotoxicity	30	97	0.0278	Down
GO:0051770 positive regulation of nitric-oxide synthase biosynthetic process	30	97	0.0282	Down
GO:0032945 negative regulation of mononuclear cell proliferation	30	97	0.0289	Down
GO:0050672 negative regulation of lymphocyte proliferation	30	97	0.0289	Down
GO:0002833 positive regulation of response to biotic stimulus	30	97	0.0292	Down
GO:0070997 neuron death	30	97	0.0292	Down
GO:0031330 negative regulation of cellular catabolic process	30	97	0.0297	Down
GO:0051271 negative regulation of cellular component movement	30	97	0.0301	Down
GO:0046677 response to antibiotic	30	97	0.0303	Down
GO:0002483 antigen processing and presentation of endogenous peptide antigen	30	97	0.0315	Down
GO:0019885 antigen processing and presentation of endogenous peptide antigen via MHC class I	30	97	0.0315	Down
GO:0046638 positive regulation of alpha-beta T cell differentiation	30	97	0.0316	Down
GO:0071624 positive regulation of granulocyte chemotaxis	30	97	0.0317	Down
GO:0002475 antigen processing and presentation via MHC class Ib	30	97	0.0320	Down
GO:1901214 regulation of neuron death	30	97	0.0320	Down
GO:0043524 negative regulation of neuron apoptotic process	30	97	0.0321	Down
GO:0090023 positive regulation of neutrophil chemotaxis	30	97	0.0330	Down
GO:0043410 positive regulation of MAPK cascade	30	97	0.0330	Down
GO:0071674 mononuclear cell migration	30	97	0.0336	Down
GO:2001233 regulation of apoptotic signaling pathway	30	97	0.0338	Down
GO:0033619 membrane protein proteolysis	30	97	0.0338	Down
GO:0042113 B cell activation	30	97	0.0342	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0050731 positive regulation of peptidyl-tyrosine phosphorylation	30	97	0.0345	Down
GO:0001935 endothelial cell proliferation	30	97	0.0346	Down
GO:1903573 negative regulation of response to endoplasmic reticulum stress	30	97	0.0346	Down
GO:0019883 antigen processing and presentation of endogenous antigen	30	97	0.0351	Down
GO:0001912 positive regulation of leukocyte mediated cytotoxicity	30	97	0.0353	Down
GO:0032720 negative regulation of tumor necrosis factor production	30	97	0.0354	Down
GO:0030336 negative regulation of cell migration	30	97	0.0357	Down
GO:0043393 regulation of protein binding	30	97	0.0374	Down
GO:2000514 regulation of CD4-positive, alpha-beta T cell activation	30	97	0.0386	Down
GO:0006509 membrane protein ectodomain proteolysis	30	97	0.0391	Down
GO:0040013 negative regulation of locomotion	30	97	0.0399	Down
GO:1903557 positive regulation of tumor necrosis factor superfamily cytokine production	30	97	0.0402	Down
GO:2001236 regulation of extrinsic apoptotic signaling pathway	30	97	0.0403	Down
GO:0002756 MyD88-independent toll-like receptor signaling pathway	30	97	0.0404	Down
GO:0030335 positive regulation of cell migration	30	97	0.0405	Down
GO:0045765 regulation of angiogenesis	30	97	0.0417	Down
GO:0030168 platelet activation	30	97	0.0420	Down
GO:0002040 sprouting angiogenesis	30	97	0.0421	Down
GO:0001938 positive regulation of endothelial cell proliferation	30	97	0.0422	Down
GO:0070838 divalent metal ion transport	30	97	0.0429	Down
GO:0002548 monocyte chemotaxis	30	97	0.0440	Down
GO:0042119 neutrophil activation	30	97	0.0443	Down
GO:0002861 regulation of inflammatory response to antigenic stimulus	30	97	0.0443	Down
GO:0032760 positive regulation of tumor necrosis factor production	30	97	0.0444	Down
GO:0097028 dendritic cell differentiation	30	97	0.0446	Down
GO:0097479 synaptic vesicle localization	30	97	0.0453	Down
GO:0007265 Ras protein signal transduction	30	97	0.0455	Down
GO:0051896 regulation of protein kinase B signaling	30	97	0.0456	Down
GO:0002921 negative regulation of humoral immune response	30	97	0.0461	Down
GO:0038094 Fc-gamma receptor signaling pathway	30	97	0.0465	Down
GO:0034113 heterotypic cell-cell adhesion	30	97	0.0471	Down
GO:0042176 regulation of protein catabolic process	30	97	0.0473	Down
GO:0045779 negative regulation of bone resorption	30	97	0.0477	Down
GO:0019932 second-messenger-mediated signaling	30	97	0.0479	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0002474 antigen processing and presentation of peptide antigen via MHC class I	30	97	0.0479	Down
GO:0050819 negative regulation of coagulation	30	97	0.0488	Down
GO:0045089 positive regulation of innate immune response	30	97	0.0492	Down
GO:0036230 granulocyte activation	30	97	0.0493	Down
GO:0046466 membrane lipid catabolic process	30	97	0.0494	Down
GO:0030641 regulation of cellular pH	30	97	0.0498	Down
GO:0032695 negative regulation of interleukin-12 production	30	97	0.0498	Down
GO:0033673 negative regulation of kinase activity	29	94	0.0053	Down
GO:0042326 negative regulation of phosphorylation	29	94	0.0081	Down
GO:0040017 positive regulation of locomotion	29	94	0.0084	Down
GO:0006469 negative regulation of protein kinase activity	29	94	0.0087	Down
GO:0051272 positive regulation of cellular component movement	29	94	0.0096	Down
GO:0002446 neutrophil mediated immunity	29	94	0.0107	Down
GO:2000147 positive regulation of cell motility	29	94	0.0109	Down
GO:0001933 negative regulation of protein phosphorylation	29	94	0.0110	Down
GO:0002283 neutrophil activation involved in immune response	29	94	0.0114	Down
GO:0050673 epithelial cell proliferation	29	94	0.0116	Down
GO:0019079 viral genome replication	29	94	0.0121	Down
GO:0002577 regulation of antigen processing and presentation	29	94	0.0132	Down
GO:0043312 neutrophil degranulation	29	94	0.0143	Down
GO:0010594 regulation of endothelial cell migration	29	94	0.0151	Down
GO:0048662 negative regulation of smooth muscle cell proliferation	29	94	0.0155	Down
GO:1903708 positive regulation of hemopoiesis	29	94	0.0165	Down
GO:0002287 alpha-beta T cell activation involved in immune response	29	94	0.0168	Down
GO:0002293 alpha-beta T cell differentiation involved in immune response	29	94	0.0168	Down
GO:0050678 regulation of epithelial cell proliferation	29	94	0.0170	Down
GO:0051348 negative regulation of transferase activity	29	94	0.0175	Down
GO:0002294 CD4-positive, alpha-beta T cell differentiation involved in immune response	29	94	0.0176	Down
GO:0043367 CD4-positive, alpha-beta T cell differentiation	29	94	0.0179	Down
GO:0031331 positive regulation of cellular catabolic process	29	94	0.0183	Down
GO:0071496 cellular response to external stimulus	29	94	0.0203	Down
GO:0031663 lipopolysaccharide-mediated signaling pathway	29	94	0.0208	Down
GO:0042130 negative regulation of T cell proliferation	29	94	0.0213	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0035924 cellular response to vascular endothelial growth factor stimulus	29	94	0.0214	Down
GO:1902622 regulation of neutrophil migration	29	94	0.0215	Down
GO:0010632 regulation of epithelial cell migration	29	94	0.0221	Down
GO:0001911 negative regulation of leukocyte mediated cytotoxicity	29	94	0.0221	Down
GO:0009896 positive regulation of catabolic process	29	94	0.0228	Down
GO:0043301 negative regulation of leukocyte degranulation	29	94	0.0233	Down
GO:1904706 negative regulation of vascular smooth muscle cell proliferation	29	94	0.0240	Down
GO:0002832 negative regulation of response to biotic stimulus	29	94	0.0242	Down
GO:0045351 type I interferon biosynthetic process	29	94	0.0248	Down
GO:0042093 T-helper cell differentiation	29	94	0.0276	Down
GO:0045078 positive regulation of interferon-gamma biosynthetic process	29	94	0.0284	Down
GO:2000108 positive regulation of leukocyte apoptotic process	29	94	0.0284	Down
GO:0002821 positive regulation of adaptive immune response	29	94	0.0299	Down
GO:1901342 regulation of vasculature development	29	94	0.0300	Down
GO:0002824 positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	29	94	0.0301	Down
GO:0002710 negative regulation of T cell mediated immunity	29	94	0.0315	Down
GO:0002708 positive regulation of lymphocyte mediated immunity	29	94	0.0326	Down
GO:0010508 positive regulation of autophagy	29	94	0.0352	Down
GO:0002763 positive regulation of myeloid leukocyte differentiation	29	94	0.0354	Down
GO:0060401 cytosolic calcium ion transport	29	94	0.0360	Down
GO:0098581 detection of external biotic stimulus	29	94	0.0364	Down
GO:1902235 regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling pathway	29	94	0.0365	Down
GO:1902236 negative regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling pathway	29	94	0.0372	Down
GO:0046636 negative regulation of alpha-beta T cell activation	29	94	0.0383	Down
GO:0045591 positive regulation of regulatory T cell differentiation	29	94	0.0383	Down
GO:0043372 positive regulation of CD4-positive, alpha-beta T cell differentiation	29	94	0.0389	Down
GO:1902106 negative regulation of leukocyte differentiation	29	94	0.0391	Down
GO:0060759 regulation of response to cytokine stimulus	29	94	0.0394	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>Status</b>
GO:0002456 T cell mediated immunity	29	94	0.0397	Down
GO:0001906 cell killing	29	94	0.0397	Down
GO:0030183 B cell differentiation	29	94	0.0397	Down
GO:0045058 T cell selection	29	94	0.0398	Down
GO:0035729 cellular response to hepatocyte growth factor stimulus	29	94	0.0400	Down
GO:0019058 viral life cycle	29	94	0.0412	Down
GO:0072511 divalent inorganic cation transport	29	94	0.0416	Down
GO:0003158 endothelium development	29	94	0.0418	Down
GO:0030195 negative regulation of blood coagulation	29	94	0.0419	Down
GO:0001909 leukocyte mediated cytotoxicity	29	94	0.0419	Down
GO:0051208 sequestering of calcium ion	29	94	0.0421	Down
GO:0002433 immune response-regulating cell surface receptor signaling pathway involved in phagocytosis	29	94	0.0422	Down
GO:0038096 Fc-gamma receptor signaling pathway involved in phagocytosis	29	94	0.0422	Down
GO:0055067 monovalent inorganic cation homeostasis	29	94	0.0423	Down
GO:0061081 positive regulation of myeloid leukocyte cytokine production involved in immune response	29	94	0.0425	Down
GO:0042177 negative regulation of protein catabolic process	29	94	0.0429	Down
GO:0072539 T-helper 17 cell differentiation	29	94	0.0431	Down
GO:0002281 macrophage activation involved in immune response	29	94	0.0435	Down
GO:0002467 germinal center formation	29	94	0.0441	Down
GO:0070482 response to oxygen levels	29	94	0.0441	Down
GO:0050858 negative regulation of antigen receptor-mediated signaling pathway	29	94	0.0442	Down
GO:1904894 positive regulation of receptor signaling pathway via STAT	29	94	0.0442	Down
GO:0032703 negative regulation of interleukin-2 production	29	94	0.0448	Down
GO:0002685 regulation of leukocyte migration	29	94	0.0449	Down
GO:1900047 negative regulation of hemostasis	29	94	0.0450	Down
GO:0060337 type I interferon signaling pathway	29	94	0.0450	Down
GO:0071357 cellular response to type I interferon	29	94	0.0450	Down
GO:0050860 negative regulation of T cell receptor signaling pathway	29	94	0.0453	Down
GO:0010039 response to iron ion	29	94	0.0454	Down
GO:0010952 positive regulation of peptidase activity	29	94	0.0458	Down
GO:0002718 regulation of cytokine production involved in immune response	29	94	0.0459	Down
GO:0052548 regulation of endopeptidase activity	29	94	0.0460	Down
GO:0031342 negative regulation of cell killing	29	94	0.0467	Down
GO:0034340 response to type I interferon	29	94	0.0473	Down
GO:0010882 regulation of cardiac muscle contraction by calcium ion signaling	29	94	0.0476	Down
GO:0045342 MHC class II biosynthetic process	29	94	0.0480	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0060402 calcium ion transport into cytosol	29	94	0.0482	Down
GO:0002709 regulation of T cell mediated immunity	29	94	0.0492	Down
GO:1903556 negative regulation of tumor necrosis factor superfamily cytokine production	29	94	0.0493	Down
GO:0060627 regulation of vesicle-mediated transport	29	94	0.0493	Down
GO:0051282 regulation of sequestering of calcium ion	29	94	0.0493	Down
GO:1904892 regulation of receptor signaling pathway via STAT	29	94	0.0496	Down
GO:1905037 autophagosome organization	29	94	0.0498	Down
GO:0051051 negative regulation of transport	28	90	0.0035	Down
GO:0002791 regulation of peptide secretion	28	90	0.0062	Down
GO:0032623 interleukin-2 production	28	90	0.0062	Down
GO:0050707 regulation of cytokine secretion	28	90	0.0064	Down
GO:0050766 positive regulation of phagocytosis	28	90	0.0095	Down
GO:0050708 regulation of protein secretion	28	90	0.0100	Down
GO:0002544 chronic inflammatory response	28	90	0.0124	Down
GO:0008360 regulation of cell shape	28	90	0.0142	Down
GO:0002711 positive regulation of T cell mediated immunity	28	90	0.0163	Down
GO:0090066 regulation of anatomical structure size	28	90	0.0171	Down
GO:0002026 regulation of the force of heart contraction	28	90	0.0175	Down
GO:0042108 positive regulation of cytokine biosynthetic process	28	90	0.0184	Down
GO:0032663 regulation of interleukin-2 production	28	90	0.0186	Down
GO:0045744 negative regulation of G protein-coupled receptor signaling pathway	28	90	0.0215	Down
GO:0010522 regulation of calcium ion transport into cytosol	28	90	0.0229	Down
GO:0046850 regulation of bone remodeling	28	90	0.0232	Down
GO:0070099 regulation of chemokine-mediated signaling pathway	28	90	0.0233	Down
GO:0051897 positive regulation of protein kinase B signaling	28	90	0.0245	Down
GO:0000045 autophagosome assembly	28	90	0.0249	Down
GO:0016236 macroautophagy	28	90	0.0252	Down
GO:0050856 regulation of T cell receptor signaling pathway	28	90	0.0268	Down
GO:0035710 CD4-positive, alpha-beta T cell activation	28	90	0.0269	Down
GO:1904646 cellular response to amyloid-beta	28	90	0.0269	Down
GO:0032722 positive regulation of chemokine production	28	90	0.0275	Down
GO:0051580 regulation of neurotransmitter uptake	28	90	0.0279	Down
GO:0051283 negative regulation of sequestering of calcium ion	28	90	0.0287	Down
GO:2001024 negative regulation of response to drug	28	90	0.0288	Down
GO:0042542 response to hydrogen peroxide	28	90	0.0289	Down
GO:0030004 cellular monovalent inorganic cation homeostasis	28	90	0.0291	Down

Set	n	Percentage	p-value	Status
GO:0014909 smooth muscle cell migration	28	90	0.0293	Down
GO:0002705 positive regulation of leukocyte mediated immunity	28	90	0.0301	Down
GO:0001773 myeloid dendritic cell activation	28	90	0.0306	Down
GO:0001776 leukocyte homeostasis	28	90	0.0306	Down
GO:0051209 release of sequestered calcium ion into cytosol	28	90	0.0308	Down
GO:0045862 positive regulation of proteolysis	28	90	0.0309	Down
GO:0046629 gamma-delta T cell activation	28	90	0.0311	Down
GO:0050854 regulation of antigen receptor-mediated signaling pathway	28	90	0.0312	Down
GO:0010631 epithelial cell migration	28	90	0.0317	Down
GO:0045953 negative regulation of natural killer cell mediated cytotoxicity	28	90	0.0324	Down
GO:0032970 regulation of actin filament-based process	28	90	0.0325	Down
GO:0051817 modulation of process of other organism involved in symbiotic interaction	28	90	0.0325	Down
GO:2001185 regulation of CD8-positive, alpha-beta T cell activation	28	90	0.0338	Down
GO:0002573 myeloid leukocyte differentiation	28	90	0.0345	Down
GO:0002761 regulation of myeloid leukocyte differentiation	28	90	0.0347	Down
GO:1904950 negative regulation of establishment of protein localization	28	90	0.0351	Down
GO:0016241 regulation of macroautophagy	28	90	0.0352	Down
GO:0036037 CD8-positive, alpha-beta T cell activation	28	90	0.0353	Down
GO:0090130 tissue migration	28	90	0.0354	Down
GO:0051224 negative regulation of protein transport	28	90	0.0358	Down
GO:0042100 B cell proliferation	28	90	0.0359	Down
GO:0002228 natural killer cell mediated immunity	28	90	0.0361	Down
GO:0006885 regulation of pH	28	90	0.0365	Down
GO:0032648 regulation of interferon-beta production	28	90	0.0370	Down
GO:0090025 regulation of monocyte chemotaxis	28	90	0.0373	Down
GO:0090132 epithelium migration	28	90	0.0377	Down
GO:0042060 wound healing	28	90	0.0385	Down
GO:0030888 regulation of B cell proliferation	28	90	0.0385	Down
GO:0032608 interferon-beta production	28	90	0.0388	Down
GO:0042095 interferon-gamma biosynthetic process	28	90	0.0395	Down
GO:0032956 regulation of actin cytoskeleton organization	28	90	0.0405	Down
GO:0031668 cellular response to extracellular stimulus	28	90	0.0406	Down
GO:1901136 carbohydrate derivative catabolic process	28	90	0.0413	Down
GO:2000406 positive regulation of T cell migration	28	90	0.0413	Down
GO:0002701 negative regulation of production of molecular mediator of immune response	28	90	0.0414	Down
GO:0002700 regulation of production of molecular mediator of immune response	28	90	0.0415	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p</i>-value</b>	<b>Status</b>
GO:0045072 regulation of interferon-gamma biosynthetic process	28	90	0.0415	Down
GO:0045124 regulation of bone resorption	28	90	0.0418	Down
GO:0010507 negative regulation of autophagy	28	90	0.0420	Down
GO:0051259 protein complex oligomerization	28	90	0.0425	Down
GO:0051056 regulation of small GTPase mediated signal transduction	28	90	0.0431	Down
GO:0001504 neurotransmitter uptake	28	90	0.0440	Down
GO:0002686 negative regulation of leukocyte migration	28	90	0.0442	Down
GO:0009991 response to extracellular stimulus	28	90	0.0442	Down
GO:0051608 histamine transport	28	90	0.0442	Down
GO:0048489 synaptic vesicle transport	28	90	0.0444	Down
GO:0001959 regulation of cytokine-mediated signaling pathway	28	90	0.0446	Down
GO:0010881 regulation of cardiac muscle contraction by regulation of the release of sequestered calcium ion	28	90	0.0450	Down
GO:0010633 negative regulation of epithelial cell migration	28	90	0.0450	Down
GO:0045824 negative regulation of innate immune response	28	90	0.0451	Down
GO:0034103 regulation of tissue remodeling	28	90	0.0456	Down
GO:0050857 positive regulation of antigen receptor-mediated signaling pathway	28	90	0.0456	Down
GO:0046427 positive regulation of receptor signaling pathway via JAK-STAT	28	90	0.0461	Down
GO:0032635 interleukin-6 production	28	90	0.0462	Down
GO:0034762 regulation of transmembrane transport	28	90	0.0467	Down
GO:2001238 positive regulation of extrinsic apoptotic signaling pathway	28	90	0.0472	Down
GO:0002715 regulation of natural killer cell mediated immunity	28	90	0.0472	Down
GO:0051043 regulation of membrane protein ectodomain proteolysis	28	90	0.0473	Down
GO:1900120 regulation of receptor binding	28	90	0.0476	Down
GO:0002863 positive regulation of inflammatory response to antigenic stimulus	28	90	0.0478	Down
GO:0060368 regulation of Fc receptor mediated stimulatory signaling pathway	28	90	0.0480	Down
GO:1903707 negative regulation of hemopoiesis	28	90	0.0483	Down
GO:0050864 regulation of B cell activation	28	90	0.0489	Down
GO:0019216 regulation of lipid metabolic process	28	90	0.0491	Down
GO:0046514 ceramide catabolic process	28	90	0.0494	Down
GO:0045453 bone resorption	28	90	0.0497	Down
GO:0051235 maintenance of location	28	90	0.0497	Down
GO:1902624 positive regulation of neutrophil migration	28	90	0.0498	Down

**Annex XVIII The remaining 11 identified CpG sites whose DNA methylation were able to predict survival in patients with AML-M5 categorized in the intermediate prognostic risk group.**

<b>CpG sites</b>	<b><i>p-value</i></b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (<i>p-value</i>)</b>	<b>gene</b>	<b>HR</b>
cg03253268	0.0246	0.5579	8	8	0.4939	<i>CRYAA</i>	0.2543
cg18963509	0.0079	0.2779	7	9	0.5958	<i>WNK4</i>	0.1803
cg04556646	0.0079	0.4005	7	9	0.5958	<i>PHF21B</i>	0.1803
cg10626063	0.0079	0.415	7	9	0.5958	<i>SPRED3</i>	0.1803
cg00226822	0.0064	0.7251	9	6	0.9059	<i>SPON2</i>	0.1685
cg00678286	0.0057	0.7741	7	9	0.3961	<i>SHH</i>	0.1427
cg17683110	0.0038	0.3917	7	9	0.9155	<i>CBLN1</i>	0.1262
cg17534999	0.0012	0.3199	9	7	0.6331	<i>KIRREL3-AS3</i>	0.0997
cg23248910	0.0003	0.2599	9	6	0.5952	<i>FGFR2</i>	0.0793
cg16985667	0.0002	0.5046	9	7	0.4577	<i>KRTAP4-5</i>	0.0744
cg00754947	0.0008	0.7827	9	6	0.5546	<i>GRB10</i>	

**Annex XIX Additional information about the 26 candidate biomarkers of prognostic of DNA methylation in patients with AML-M5 categorized in the intermediate prognostic risk group.**

<b>CpG sites</b>	<b>location</b>	<b>status</b>	<b>ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>gene</b>	<b>bibliographic</b>
cg22212237	Promoter (<=1kb)	low	0.78	-0.23	0.000175	C1QL4	non-leukemia cancer types
cg20183094	Distal Intergenic	low	0.78	-0.22	0.000175	FEZF1	non-leukemia cancer types
cg08004278	Distal Intergenic	low	0.78	-0.20	0.000175	FEZF1	non-leukemia cancer types
cg05422647	Promoter (<=1kb)	low	0.78	-0.30	0.000175	GLRA1	non-AML leukemia types
cg17652792	Promoter (1-2kb)	low	1.29	-0.32	0.000175	PCDHB16	cited in PubMed
cg27462975	1st Intron	low	0.75	-0.24	0.000002	MIR573	non-leukemia cancer types
cg16759787	Distal Intergenic	low	1.14	-0.22	0.002402	RN7SK	non-leukemia cancer types
cg20362634	Promoter (<=1kb)	low	1.00	-0.23	0.001561	GABRG3	non-leukemia cancer types
cg03154226	Promoter (<=1kb)	low	1.29	-0.28	0.001024	OR5D14	never cited
cg11155432	Promoter (<=1kb)	low	1.29	-0.36	0.000175	CDH9	non-AML leukemia types
cg02171545	Other Intron	low	1.00	-0.37	0.000005	SNRPN	cited in AML
cg12436427	Distal Intergenic	low	1.00	-0.26	0.000155	WASHC2A	non-leukemia cancer types
cg18232125	Distal Intergenic	low	1.00	-0.22	0.000005	TENM2	non-leukemia cancer types
cg16368763	Promoter (2-3kb)	low	1.00	-0.21	0.000155	TRIM67	non-leukemia cancer types
cg26577836	Other Exon	high	1.00	-0.26	0.000032	TNXB	non-AML leukemia types
cg03253268	3' UTR	high	1.00	-0.28	0.000180	CRYAA	non-leukemia cancer types
cg18963509	Promoter (<=1kb)	high	0.78	-0.32	0.000000	WNK4	non-leukemia cancer types
cg04556646	Other Intron	high	0.78	-0.24	0.000157	PHF21B	non-leukemia cancer types
cg10626063	Promoter (<=1kb)	high	0.78	-0.39	0.000001	SPRED3	non-AML leukemia types

<b>CpG sites</b>	<b>location</b>	<b>status</b>	<b>ratio</b>	<b>foldchange</b>	<b><i>p-value</i></b>	<b>gene</b>	<b>bibliographic</b>
cg00226822	Distal Intergenic	high	1.50	-0.23	0.000167	SPON2	non-leukemia cancer types
cg00678286	Distal Intergenic	high	0.78	-0.28	0.000062	SHH	cited in AML
cg17683110	3' UTR	high	0.78	-0.38	0.000004	CBLN1	non-leukemia cancer types
cg17534999	Promoter (<=1kb)	high	1.29	-0.47	0.000017	KIRREL3-AS3	never cited
cg23248910	Other Intron	high	1.50	-0.21	0.000328	FGFR2	cited in AML
cg16985667	Promoter (<=1kb)	high	1.29	-0.31	0.000060	KRTAP4-5	non-leukemia cancer types
cg00754947	Promoter (<=1kb)	high	1.50	-0.21	0.000400	GRB10	cited in AML

**Annex XX The remaining 161 identified genes whose gene expression were able to predict survival in patients with AML-M0-M1-M2-M4-M5 categorized in the intermediate prognostic risk group.**

<b>Gene</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>
<i>ANKEF1</i>	0.001390	4.8568	53	33	0.876429	2.362363
<i>NUDT5</i>	0.000672	9.3438	34	55	0.120063	2.358147
<i>REG4</i>	0.001280	0	37	45	0.450132	2.357510
<i>STK36</i>	0.002397	8.7146	52	37	0.729602	2.220113
<i>FOSL1</i>	0.004470	7.2812	54	33	0.117200	2.211166
<i>VPS33B</i>	0.003160	8.3169	45	41	0.771955	2.207318
<i>CEP89</i>	0.003266	8.197	43	40	0.192296	2.183572
<i>HAT1</i>	0.002047	10.0544	38	51	0.718098	2.173449
<i>ADK</i>	0.002409	9.0034	39	49	0.791215	2.155982
<i>COQ9</i>	0.003112	9.0163	48	41	0.686555	2.131691
<i>CSTB</i>	0.003323	9.2987	39	49	0.070122	2.110184
<i>GRHPR</i>	0.006471	9.8666	37	51	0.869006	2.041174
<i>MSMO1</i>	0.006604	8.0439	45	42	0.203891	2.040044
<i>AKIRIN2</i>	0.007132	9.8579	41	44	0.083812	2.014150
<i>SV2B</i>	0.006619	5.745	43	46	0.856587	2.007315
<i>SLC25A20</i>	0.014782	9.4048	38	47	0.950635	1.919283
<i>CINP</i>	0.018024	8.1852	49	36	0.418055	1.898255
<i>OCEL1</i>	0.011821	7.0327	37	52	0.090876	1.896656
<i>SNHG12</i>	0.015181	8.9941	36	53	0.893543	1.862744
<i>BCKDK</i>	0.016351	9.8328	44	44	0.422795	1.841478
<i>TOMIL1</i>	0.017523	4.495	41	48	0.911475	1.839332
<i>EBP</i>	0.016520	8.363	39	48	0.144217	1.830974
<i>NIT2</i>	0.023562	8.8788	37	52	0.799468	1.796533
<i>ARSD</i>	0.028910	10.9881	36	50	0.551457	1.757749
<i>LGI4</i>	0.036721	2.8438	39	49	0.467244	0.578419
<i>TSPAN33</i>	0.034443	8.9687	37	49	0.077922	0.563952
<i>PAWR</i>	0.024020	2.1513	54	35	0.131440	0.561843
<i>FCRL5</i>	0.025023	7.2617	43	45	0.811857	0.557015
<i>SH3RF1</i>	0.022748	8.2421	48	38	0.137944	0.555232
<i>PDZK1</i>	0.025034	5.454	37	49	0.283068	0.551345
<i>ZNF780B</i>	0.018246	9.802	47	40	0.935479	0.548784
<i>CNGA1</i>	0.019576	2.3872	39	50	0.120843	0.545904
<i>BCAR1</i>	0.019114	1.9529	44	45	0.462443	0.544904
<i>TRPC6</i>	0.017186	0.9267	47	41	0.210863	0.543437
<i>CACNA2D2</i>	0.021770	4.7146	40	44	0.114746	0.542884
<i>CEP68</i>	0.015740	10.202	46	43	0.322246	0.541268
<i>CCDC80</i>	0.018401	4.033	38	51	0.666074	0.536875
<i>PCDHGA9</i>	0.013626	4.033	49	39	0.340144	0.530868
<i>GLI3</i>	0.016843	2.3489	39	46	0.821974	0.530679
<i>LRRC2</i>	0.014749	2.45	40	49	0.785374	0.529968

<b>Gene</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>
<i>PLS3</i>	0.010931	1.3466	52	36	0.598570	0.523826
<i>MMRN2</i>	0.010891	3.4267	43	46	0.500570	0.518965
<i>FABP4</i>	0.010925	2.4814	51	38	0.374551	0.515706
<i>MCM9</i>	0.010791	7.6216	47	38	0.922500	0.512015
<i>FSTL1</i>	0.008895	5.6949	55	34	0.839321	0.511612
<i>WASL</i>	0.009565	8.0565	49	35	0.342797	0.511566
<i>BCAR3</i>	0.008463	3.9799	53	36	0.424435	0.511229
<i>MAMLD1</i>	0.008158	4.3333	49	39	0.759030	0.510747
<i>AGTPBP1</i>	0.007057	10.8552	48	41	0.245565	0.504994
<i>SULF1</i>	0.007655	1.0169	48	41	0.704816	0.504636
<i>NDEL1</i>	0.007437	9.965	51	35	0.365004	0.503668
<i>PLOD2</i>	0.007422	1.3466	47	40	0.262499	0.501543
<i>IGF2</i>	0.007361	4.7413	46	43	0.289292	0.500307
<i>AMOTL2</i>	0.007099	3.1751	40	48	0.211558	0.497699
<i>CCNJL</i>	0.010409	2.8988	39	49	0.297353	0.497426
<i>FAM171A1</i>	0.006217	3.3341	48	37	0.814186	0.495873
<i>ASIC4</i>	0.007248	1.3487	39	49	0.239362	0.492441
<i>SIPR2</i>	0.006926	5.3641	40	48	0.483887	0.491915
<i>CHRDL1</i>	0.005739	2.8984	55	34	0.480534	0.491614
<i>C12orf42</i>	0.008432	2.4949	34	55	0.813001	0.489551
<i>SORBS2</i>	0.008179	0.851	39	47	0.804624	0.488332
<i>VASH2</i>	0.005631	4.8264	45	41	0.126784	0.487264
<i>SHROOM3</i>	0.006873	0.8251	39	49	0.480219	0.487250
<i>ARHGAP35</i>	0.006434	11.0511	39	44	0.967230	0.486807
<i>FBXL7</i>	0.004866	0	51	38	0.061867	0.482030
<i>LDB2</i>	0.003866	1.4717	50	39	0.943936	0.475076
<i>GPX8</i>	0.004278	1.6265	41	48	0.221346	0.474546
<i>ADGRL1</i>	0.004600	8.0903	40	49	0.177263	0.474134
<i>WNT10A</i>	0.005196	3.6729	38	51	0.730543	0.473652
<i>CCBE1</i>	0.003686	0.7979	45	44	0.519241	0.470515
<i>CLDN5</i>	0.003837	2.858	54	33	0.277781	0.469349
<i>CALHM5</i>	0.003083	0.9816	48	41	0.996715	0.469045
<i>COL3A1</i>	0.003120	2.9791	53	36	0.454118	0.468462
<i>PODN</i>	0.003022	1.737	49	40	0.704242	0.468360
<i>GFRA1</i>	0.004116	2.7741	37	52	0.404900	0.468204
<i>TMEM56</i>	0.003304	5.7681	47	42	0.201018	0.468057
<i>CHSY3</i>	0.003186	1.3487	49	39	0.444417	0.467786
<i>LAMA4</i>	0.003299	2.4828	46	43	0.342732	0.467676
<i>POU2AF1</i>	0.003196	7.4274	40	49	1.000000	0.462405
<i>OLFM1</i>	0.002104	0.9147	48	41	0.515307	0.461345
<i>FAT4</i>	0.002990	2.2909	52	36	0.779315	0.460730
<i>NR2F1</i>	0.002840	1.6664	40	49	0.324066	0.460592
<i>CYGB</i>	0.003731	3.2639	36	53	0.220459	0.458382

<b>Gene</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>
<i>NMT2</i>	0.002845	6.8006	40	49	0.134193	0.457015
<i>TMEM132C</i>	0.002206	1.3215	49	40	0.549651	0.456510
<i>CHI3L2</i>	0.006666	4.0398	33	54	0.360421	0.455723
<i>C1orf21</i>	0.001981	7.2828	47	42	0.905092	0.454781
<i>DNAH9</i>	0.001776	1.4278	51	38	0.923968	0.454584
<i>NNMT</i>	0.002010	2.8476	47	42	0.711361	0.454353
<i>CYP46A1</i>	0.002841	2.4644	45	38	0.247340	0.452669
<i>BICC1</i>	0.002627	1.7305	39	50	0.582199	0.452081
<i>GEM</i>	0.002091	1.946	39	50	0.967004	0.451753
<i>TRH</i>	0.002430	3.734	39	50	0.108489	0.450317
<i>PCDH18</i>	0.001924	2.9349	47	42	0.350667	0.450202
<i>NFIB</i>	0.002116	2.4398	49	40	0.077401	0.449754
<i>SEMA6D</i>	0.001777	1.6074	49	40	0.566288	0.449015
<i>DCN</i>	0.001507	3.145	51	38	0.227244	0.445507
<i>APOD</i>	0.002052	1.7462	45	41	0.893331	0.443363
<i>LBR</i>	0.002264	11.9283	39	46	0.575251	0.441290
<i>EPAS1</i>	0.001206	5.448	53	36	0.867152	0.440068
<i>HSDL1</i>	0.003211	8.7792	33	54	0.179104	0.437358
<i>CXCL12</i>	0.002077	9.5168	36	53	0.163745	0.436020
<i>KDR</i>	0.001451	2.8606	38	51	0.514748	0.435587
<i>TMEM98</i>	0.001382	0.9292	53	33	0.584779	0.434228
<i>ADGRL4</i>	0.001334	0.9398	51	38	0.525516	0.433533
<i>FAM149A</i>	0.001805	0.8465	40	49	0.695074	0.431690
<i>SERAC1</i>	0.001217	7.6025	51	35	0.509483	0.431687
<i>AREL1</i>	0.001634	10.5254	44	41	0.062718	0.430625
<i>NTRK3</i>	0.001016	0.6182	49	37	0.260252	0.428857
<i>FBLN1</i>	0.000939	2.3717	51	38	0.490944	0.427447
<i>ALPL</i>	0.001108	3.8456	52	37	0.190990	0.427015
<i>MYT1</i>	0.001094	1.4603	45	42	0.065769	0.426163
<i>ATCAY</i>	0.001618	1.6664	37	51	0.902398	0.426157
<i>LTBP3</i>	0.001187	9.7186	40	49	0.766407	0.425201
<i>ST8SIA1</i>	0.001641	3.7066	35	53	0.867891	0.423654
<i>COL1A2</i>	0.000669	3.0182	55	34	0.483166	0.418205
<i>CPZ</i>	0.001031	1.0888	39	48	0.068927	0.416727
<i>CD160</i>	0.000550	7.309	44	44	0.376114	0.414097
<i>EFEMP1</i>	0.000712	0.7768	49	38	0.169356	0.409557
<i>CDH11</i>	0.000486	3.601	45	44	0.125710	0.406818
<i>LTBP2</i>	0.000381	5.3125	53	35	0.391288	0.405443
<i>VGLL3</i>	0.000493	2.7043	48	40	0.205488	0.405306
<i>FCHSD2</i>	0.001518	11.0163	32	52	0.054091	0.405260
<i>MXRA5</i>	0.000383	2.3266	52	37	0.305613	0.402889
<i>CTHRC1</i>	0.000906	3.8462	39	42	0.639662	0.401971
<i>CDH5</i>	0.000526	3.3286	39	50	0.339291	0.400388

<b>Gene</b>	<b>p-value</b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>
<i>CD300LG</i>	0.000980	1.3215	34	55	0.056218	0.399595
<i>TJP1</i>	0.000419	1.4864	54	35	0.159248	0.397900
<i>SUCO</i>	0.000372	10.4142	52	37	0.119345	0.397781
<i>QSOX2</i>	0.000528	9.6071	41	47	0.557985	0.396479
<i>GJA1</i>	0.000341	2.4606	49	39	0.170721	0.395150
<i>GDF10</i>	0.000439	1.0888	53	35	0.073240	0.393601
<i>GABRE</i>	0.000233	1.5542	48	38	0.365530	0.388315
<i>FRZB</i>	0.000574	2.8067	34	55	0.176456	0.387926
<i>NLGN4X</i>	0.000201	1.4442	50	39	0.103135	0.384189
<i>MAP4K4</i>	0.000259	11.4434	52	33	0.776273	0.381763
<i>SELE</i>	0.000122	0.9267	50	38	0.328218	0.380450
<i>LYVE1</i>	0.000260	2.3489	53	33	0.584753	0.377037
<i>OSMR</i>	0.000219	3.0146	50	38	0.177486	0.376739
<i>NOL4L</i>	0.000281	10.7633	37	51	0.260652	0.375099
<i>DCLK1</i>	0.000125	0.8301	50	39	0.172223	0.373177
<i>CRIM1</i>	0.000126	8.1774	42	45	0.782391	0.369971
<i>PCDH17</i>	0.000138	0.9462	47	42	0.154865	0.368110
<i>SLC14A1</i>	0.000069	6.5624	52	37	0.473808	0.367288
<i>EYA1</i>	0.000057	1.3865	54	34	0.395966	0.355724
<i>PIMREG</i>	0.000045	3.3832	54	35	0.550737	0.349571
<i>ITGA8</i>	0.000028	0	54	35	0.133603	0.343701
<i>TSKU</i>	0.000132	2.8832	36	53	0.241622	0.342914
<i>IL33</i>	0.000006	0.9267	52	37	0.134899	0.302496
<i>ADAMTSL3</i>	0.000001	0.9398	53	35	0.420204	0.262021
<i>AWAT1</i>	0.025321	1.0582	43	46	0.050093	
<i>C16orf54</i>	0.025321	11.0286	40	46	0.156660	
<i>NDUFA12</i>	0.000811	8.8284	41	47	0.516583	
<i>ZNF433</i>	0.020789	7.6258	42	47	0.268737	
<i>SENP5</i>	0.003716	10.2671	48	40	0.341276	
<i>PSMA7</i>	0.011657	10.3318	50	37	0.284874	
<i>EVL</i>	0.044814	10.6697	35	53	0.328716	
<i>GALK1</i>	0.022057	7.8817	36	52	0.935709	
<i>JAK3</i>	0.007906	11.2483	50	39	0.768985	
<i>TOMM40L</i>	0.000332	8.5908	51	34	0.332359	

**Annex XXI Additional information about the 176 candidate biomarkers of prognostic of gene expression in patients with AML-M0-M1-M2-M4-M5 categorized in the intermediate prognostic risk group.**

<b>gene</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>status</b>	<b>bibliographic</b>
<i>CCT6B</i>	0.62	0.43	0.0036825	low	non-leukemia cancer types
<i>ITGB1BP1</i>	0.93	0.34	0.0000001	low	non-AML leukemia types
<i>PDE7B</i>	1.54	0.39	0.0057739	low	cited in AML
<i>ITGA11</i>	0.74	0.32	0.0046237	low	non-leukemia cancer types
<i>PBDC1</i>	1.64	0.37	0.0354108	low	non-leukemia cancer types
<i>NQO1</i>	1.23	0.39	0.0001984	low	cited in AML
<i>HSD17B7</i>	0.62	0.38	0.0105473	low	non-leukemia cancer types
<i>DRC7</i>	1.17	0.27	0.0000000	low	cited in PubMed
<i>TBC1D29P</i>	0.62	0.34	0.0091614	low	never cited
<i>ASCC1</i>	0.93	0.35	0.0059529	low	non-leukemia cancer types
<i>CCND3</i>	1.17	0.30	0.0491560	low	cited in AML
<i>IQCG</i>	1.56	0.37	0.0008972	low	cited in AML
<i>SH3TC2</i>	1.02	0.35	0.0029086	low	non-AML leukemia types
<i>S100A1</i>	0.96	0.38	0.0000673	low	non-AML leukemia types
<i>HIP1</i>	0.69	0.30	0.0000025	low	cited in AML
<i>ANKEF1</i>	1.61	0.40	0.0010849	low	non-leukemia cancer types
<i>NUDT5</i>	0.62	0.34	0.0342869	low	non-leukemia cancer types
<i>REG4</i>	0.82	-1.48	0.0098793	low	non-AML leukemia types
<i>STK36</i>	1.41	0.34	0.0003672	low	non-leukemia cancer types
<i>FOSL1</i>	1.64	0.36	0.0023289	low	cited in AML
<i>VPS33B</i>	1.10	0.36	0.0132447	low	non-AML leukemia types
<i>CEP89</i>	1.08	0.36	0.0146579	low	non-leukemia cancer types
<i>HAT1</i>	0.75	0.33	0.0098708	low	non-AML leukemia types
<i>ADK</i>	0.80	0.35	0.0383823	low	cited in AML
<i>COQ9</i>	1.17	0.34	0.0103663	low	non-AML leukemia types
<i>CSTB</i>	0.80	0.34	0.0261336	low	cited in AML
<i>GRHPR</i>	0.73	0.33	0.0044511	low	non-leukemia cancer types
<i>MSMO1</i>	1.07	0.36	0.0349632	low	non-leukemia cancer types
<i>AKIRIN2</i>	0.93	0.33	0.0021630	low	non-leukemia cancer types
<i>SV2B</i>	0.93	0.38	0.0288494	low	non-AML leukemia types
<i>SLC25A20</i>	0.81	0.34	0.0138296	low	non-leukemia cancer types
<i>CINP</i>	1.36	0.36	0.0000000	low	non-AML leukemia types
<i>OCEL1</i>	0.71	0.38	0.0015659	low	non-leukemia cancer types
<i>SNHG12</i>	0.68	0.35	0.0483360	low	non-AML leukemia types
<i>BCKDK</i>	1.00	0.33	0.0025544	low	non-leukemia cancer types
<i>TOM1L1</i>	0.85	0.35	0.0071459	low	non-AML leukemia types
<i>EBP</i>	0.81	0.36	0.0039189	low	cited in AML
<i>NIT2</i>	0.71	0.35	0.0208930	low	non-leukemia cancer types
<i>ARSD</i>	0.72	0.31	0.0007807	low	non-AML leukemia types
<i>LGI4</i>	0.80	0.69	0.0070102	high	non-leukemia cancer types

<b>gene</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>status</b>	<b>bibliographic</b>
<i>TSPAN33</i>	0.76	0.37	0.0330537	high	cited in AML
<i>PAWR</i>	1.54	0.85	0.0000475	high	cited in AML
<i>FCRL5</i>	0.96	0.44	0.0059807	high	non-AML leukemia types
<i>SH3RF1</i>	1.26	0.38	0.0040728	high	non-leukemia cancer types
<i>PDZK1</i>	0.76	0.49	0.0032438	high	non-AML leukemia types
<i>ZNF780B</i>	1.18	0.34	0.0224013	high	non-leukemia cancer types
<i>CNGA1</i>	0.78	0.68	0.0224830	high	cited in PubMed
<i>BCAR1</i>	0.98	0.85	0.0037094	high	cited in AML
<i>TRPC6</i>	1.15	1.20	0.0006059	high	cited in AML
<i>CACNA2D2</i>	0.91	0.56	0.0002449	high	non-leukemia cancer types
<i>CEP68</i>	1.07	0.33	0.0223329	high	non-leukemia cancer types
<i>CCDC80</i>	0.75	0.76	0.0001815	high	non-leukemia cancer types
<i>PCDHGA9</i>	1.26	0.59	0.0027255	high	non-leukemia cancer types
<i>GLI3</i>	0.85	0.81	0.0045692	high	cited in AML
<i>LRRC2</i>	0.82	0.96	0.0021921	high	non-leukemia cancer types
<i>PLS3</i>	1.44	0.97	0.0002309	high	cited in AML
<i>MMRN2</i>	0.93	0.69	0.0171372	high	non-leukemia cancer types
<i>FABP4</i>	1.34	0.96	0.0003273	high	cited in AML
<i>MCM9</i>	1.24	0.39	0.0135093	high	non-leukemia cancer types
<i>FSTL1</i>	1.62	0.51	0.0017398	high	non-AML leukemia types
<i>WASL</i>	1.40	0.38	0.0177784	high	non-AML leukemia types
<i>BCAR3</i>	1.47	0.58	0.0112249	high	non-AML leukemia types
<i>MAMLD1</i>	1.26	0.57	0.0076265	high	non-leukemia cancer types
<i>AGTPBP1</i>	1.17	0.33	0.0011951	high	non-leukemia cancer types
<i>SULF1</i>	1.17	1.16	0.0004081	high	cited in AML
<i>NDEL1</i>	1.46	0.33	0.0436948	high	non-AML leukemia types
<i>PLOD2</i>	1.18	1.13	0.0004387	high	non-leukemia cancer types
<i>IGF2</i>	1.07	0.66	0.0000123	high	cited in AML
<i>AMOTL2</i>	0.83	0.77	0.0006208	high	non-leukemia cancer types
<i>CCNJL</i>	0.80	0.74	0.0078187	high	never cited
<i>FAM171A1</i>	1.30	0.73	0.0000253	high	non-leukemia cancer types
<i>ASIC4</i>	0.80	0.61	0.0380592	high	non-leukemia cancer types
<i>S1PR2</i>	0.83	0.51	0.0028484	high	non-AML leukemia types
<i>CHRDL1</i>	1.62	0.85	0.0000682	high	non-AML leukemia types
<i>CI2orf42</i>	0.62	0.98	0.0001166	high	non-AML leukemia types
<i>SORBS2</i>	0.83	0.65	0.0041264	high	cited in AML
<i>VASH2</i>	1.10	0.52	0.0113074	high	non-leukemia cancer types
<i>SHROOM3</i>	0.80	0.60	0.0024588	high	non-leukemia cancer types
<i>ARHGAP35</i>	0.89	0.32	0.0000314	high	cited in AML
<i>FBXL7</i>	1.34	1.22	0.0001343	high	non-leukemia cancer types
<i>LDB2</i>	1.28	1.09	0.0000349	high	non-AML leukemia types
<i>GPX8</i>	0.85	0.97	0.0055510	high	non-leukemia cancer types
<i>ADGRL1</i>	0.82	0.40	0.0024922	high	cited in AML

<b>gene</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>status</b>	<b>bibliographic</b>
<i>WNT10A</i>	0.75	0.61	0.0462344	high	non-AML leukemia types
<i>CCBE1</i>	1.02	0.98	0.0012430	high	non-leukemia cancer types
<i>CLDN5</i>	1.64	0.69	0.0000594	high	non-AML leukemia types
<i>CALHM5</i>	1.17	1.25	0.0000064	high	never cited
<i>COL3A1</i>	1.47	0.87	0.0001025	high	cited in AML
<i>PODN</i>	1.23	0.89	0.0040495	high	non-leukemia cancer types
<i>GFRA1</i>	0.71	1.20	0.0000094	high	non-AML leukemia types
<i>TMEM56</i>	1.12	0.62	0.0000104	high	non-leukemia cancer types
<i>CHSY3</i>	1.26	0.82	0.0055629	high	non-leukemia cancer types
<i>LAMA4</i>	1.07	0.91	0.0006510	high	non-AML leukemia types
<i>POU2AF1</i>	0.82	0.43	0.0004058	high	cited in AML
<i>OLFM1</i>	1.17	0.99	0.0007294	high	non-leukemia cancer types
<i>FAT4</i>	1.44	0.85	0.0000195	high	cited in AML
<i>NR2F1</i>	0.82	1.28	0.0000357	high	non-AML leukemia types
<i>CYGB</i>	0.68	0.79	0.0010935	high	non-AML leukemia types
<i>NMT2</i>	0.82	0.46	0.0000017	high	non-AML leukemia types
<i>TMEM132C</i>	1.23	1.26	0.0000549	high	non-leukemia cancer types
<i>CHI3L2</i>	0.61	0.65	0.0043644	high	non-leukemia cancer types
<i>C1orf21</i>	1.12	0.45	0.0048230	high	cited in PubMed
<i>DNAH9</i>	1.34	0.71	0.0027938	high	cited in AML
<i>NNMT</i>	1.12	0.74	0.0044202	high	non-AML leukemia types
<i>CYP46A1</i>	1.18	0.81	0.0001470	high	non-leukemia cancer types
<i>BICC1</i>	0.78	0.91	0.0140329	high	non-leukemia cancer types
<i>GEM</i>	0.78	1.01	0.0003363	high	cited in AML
<i>TRH</i>	0.78	0.87	0.0001342	high	cited in AML
<i>PCDH18</i>	1.12	1.15	0.0000051	high	non-leukemia cancer types
<i>NFIB</i>	1.23	1.07	0.0000116	high	cited in AML
<i>SEMA6D</i>	1.23	1.17	0.0000106	high	non-leukemia cancer types
<i>DCN</i>	1.34	0.87	0.0000255	high	cited in AML
<i>APOD</i>	1.10	0.83	0.0069877	high	non-AML leukemia types
<i>LBR</i>	0.85	0.31	0.0212703	high	cited in AML
<i>EPAS1</i>	1.47	0.52	0.0001122	high	cited in AML
<i>HSDL1</i>	0.61	0.37	0.0125816	high	non-leukemia cancer types
<i>CXCL12</i>	0.68	0.52	0.0000045	high	cited in AML
<i>KDR</i>	0.75	1.10	0.0000096	high	cited in AML
<i>TMEM98</i>	1.61	1.06	0.0004171	high	non-leukemia cancer types
<i>ADGRL4</i>	1.34	1.11	0.0012319	high	non-leukemia cancer types
<i>FAM149A</i>	0.82	0.33	0.0039855	high	cited in PubMed
<i>SERAC1</i>	1.46	0.40	0.0028849	high	non-leukemia cancer types
<i>AREL1</i>	1.07	0.33	0.0001244	high	non-leukemia cancer types
<i>NTRK3</i>	1.32	0.49	0.0239769	high	cited in AML
<i>FBLN1</i>	1.34	0.87	0.0002876	high	non-AML leukemia types
<i>ALPL</i>	1.41	0.67	0.0042739	high	cited in AML

<b>gene</b>	<b>Ratio</b>	<b>foldchange</b>	<b>p-value</b>	<b>status</b>	<b>bibliographic</b>
<i>MYT1</i>	1.07	1.18	0.0001517	high	non-AML leukemia types
<i>ATCAY</i>	0.73	0.71	0.0294353	high	cited in AML
<i>LTBP3</i>	0.82	0.36	0.0437787	high	non-leukemia cancer types
<i>ST8SIA1</i>	0.66	0.78	0.0000294	high	non-AML leukemia types
<i>COL1A2</i>	1.62	0.82	0.0001951	high	cited in AML
<i>CPZ</i>	0.81	0.99	0.0012320	high	cited in AML
<i>CD160</i>	1.00	0.41	0.0007837	high	cited in AML
<i>EFEMP1</i>	1.29	0.90	0.0028682	high	non-leukemia cancer types
<i>CDH11</i>	1.02	0.89	0.0005113	high	cited in AML
<i>LTBP2</i>	1.51	0.51	0.0000054	high	non-AML leukemia types
<i>VGLL3</i>	1.20	0.94	0.0001051	high	non-leukemia cancer types
<i>FCHSD2</i>	0.62	0.32	0.0001775	high	cited in AML
<i>MXRA5</i>	1.41	1.00	0.0000969	high	non-leukemia cancer types
<i>CTHRC1</i>	0.93	0.58	0.0033507	high	non-leukemia cancer types
<i>CDH5</i>	0.78	1.01	0.0000028	high	non-leukemia cancer types
<i>CD300LG</i>	0.62	1.14	0.0004109	high	non-leukemia cancer types
<i>TJP1</i>	1.54	1.04	0.0000616	high	cited in AML
<i>SUCO</i>	1.41	0.33	0.0174382	high	non-leukemia cancer types
<i>QSOX2</i>	0.87	0.35	0.0075272	high	non-leukemia cancer types
<i>GJA1</i>	1.26	1.07	0.0000029	high	cited in AML
<i>GDF10</i>	1.51	0.80	0.0199014	high	non-leukemia cancer types
<i>GABRE</i>	1.26	0.80	0.0155091	high	cited in AML
<i>FRZB</i>	0.62	1.18	0.0001531	high	cited in AML
<i>NLGN4X</i>	1.28	0.97	0.0015786	high	non-AML leukemia types
<i>MAP4K4</i>	1.58	0.31	0.0001756	high	cited in AML
<i>SELE</i>	1.32	1.01	0.0005732	high	cited in AML
<i>LYVE1</i>	1.61	0.70	0.0182389	high	non-AML leukemia types
<i>OSMR</i>	1.32	0.77	0.0000126	high	non-AML leukemia types
<i>NOL4L</i>	0.73	0.33	0.0008201	high	cited in AML
<i>DCLK1</i>	1.28	1.10	0.0009695	high	non-AML leukemia types
<i>CRIM1</i>	0.93	0.40	0.0000870	high	non-AML leukemia types
<i>PCDH17</i>	1.12	1.17	0.0001171	high	cited in AML
<i>SLC14A1</i>	1.41	0.51	0.0000006	high	non-leukemia cancer types
<i>EYA1</i>	1.59	1.38	0.0000000	high	cited in AML
<i>PIMREG</i>	1.54	0.63	0.0357573	high	cited in AML
<i>ITGA8</i>	1.54	1.10	0.0017243	high	non-leukemia cancer types
<i>TSKU</i>	0.68	0.89	0.0004071	high	non-leukemia cancer types
<i>IL33</i>	1.41	1.40	0.0000078	high	cited in AML
<i>ADAMTSL3</i>	1.51	0.86	0.0022419	high	non-leukemia cancer types
<i>AWAT1</i>	0.93	0.41	0.0405402	high	cited in PubMed
<i>C16orf54</i>	0.87	0.31	0.0051232	low	never cited
<i>NDUFA12</i>	0.87	0.35	0.0002453	low	cited in PubMed
<i>ZNF433</i>	0.89	0.40	0.0106222	high	non-leukemia cancer types

<b>gene</b>	<b>Ratio</b>	<b>foldchange</b>	<b><i>p-value</i></b>	<b>status</b>	<b>bibliographic</b>
<i>SENP5</i>	1.20	0.33	0.0021849	high	cited in AML
<i>PSMA7</i>	1.35	0.32	0.0018333	low	non-AML leukemia types
<i>EVL</i>	0.66	0.33	0.0279061	high	cited in AML
<i>GALK1</i>	0.69	0.37	0.0099953	low	non-leukemia cancer types
<i>JAK3</i>	1.28	0.32	0.0001916	high	cited in AML
<i>TOMM40L</i>	1.50	0.35	0.0012764	low	non-leukemia cancer types

**Annex XXII List of the gene sets shared by the majority of the intermediate-poor AML-M4 that were differentially enriched in comparison with the intermediate-favorable subgroups.** For each gene set is represented the number and the percentage of intermediate-poor subgroups that have the gene sets enriched (n and percentage), a representative *p-value* and the status (upregulated (up) or downregulated (down)).

Set	n	Percentage	<i>p-value</i>	Status
GO:0043628 ncRNA 3'-end processing	170	98	0.0492	Up
GO:0006605 protein targeting	169	97	0.0276	Up
GO:0034472 snRNA 3'-end processing	167	96	0.0283	Up
GO:0016180 snRNA processing	167	96	0.0354	Up
GO:0046434 organophosphate catabolic process	166	95	0.0413	Up
GO:0016073 snRNA metabolic process	164	94	0.0466	Up
GO:0044282 small molecule catabolic process	159	91	0.0479	Up
GO:0007031 peroxisome organization	159	91	0.0480	Up
GO:0030534 adult behavior	172	99	0.0408	Down
GO:0048762 mesenchymal cell differentiation	169	97	0.0344	Down
GO:0048592 eye morphogenesis	168	97	0.0422	Down
GO:0048745 smooth muscle tissue development	167	96	0.0343	Down
GO:0003279 cardiac septum development	166	95	0.0374	Down
GO:0014065 phosphatidylinositol 3-kinase signaling	166	95	0.0463	Down
GO:0003272 endocardial cushion formation	166	95	0.0465	Down
GO:0048593 camera-type eye morphogenesis	166	95	0.0492	Down
GO:0043567 regulation of insulin-like growth factor receptor signaling pathway	165	95	0.0398	Down
GO:0060219 camera-type eye photoreceptor cell differentiation	165	95	0.0423	Down
GO:0060485 mesenchyme development	165	95	0.0467	Down
GO:2001026 regulation of endothelial cell chemotaxis	165	95	0.0469	Down
GO:0061564 axon development	165	95	0.0483	Down
GO:0060411 cardiac septum morphogenesis	164	94	0.0313	Down
GO:0021543 pallium development	164	94	0.0315	Down
GO:0021537 telencephalon development	164	94	0.0340	Down
GO:0043568 positive regulation of insulin-like growth factor receptor signaling pathway	164	94	0.0390	Down
GO:0021987 cerebral cortex development	164	94	0.0400	Down
GO:0007409 axonogenesis	164	94	0.0418	Down
GO:0072538 T-helper 17 type immune response	164	94	0.0453	Down
GO:0048286 lung alveolus development	164	94	0.0492	Down
GO:0090596 sensory organ morphogenesis	163	94	0.0404	Down
GO:0072539 T-helper 17 cell differentiation	163	94	0.0470	Down
GO:0003206 cardiac chamber morphogenesis	162	93	0.0338	Down
GO:0048009 insulin-like growth factor receptor signaling pathway	162	93	0.0456	Down
GO:0030900 forebrain development	162	93	0.0471	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>Status</b>
GO:0098815 modulation of excitatory postsynaptic potential	162	93	0.0479	Down
GO:0055023 positive regulation of cardiac muscle tissue growth	162	93	0.0490	Down
GO:0003007 heart morphogenesis	161	93	0.0412	Down
GO:2001028 positive regulation of endothelial cell chemotaxis	161	93	0.0427	Down
GO:0071772 response to BMP	161	93	0.0449	Down
GO:0071773 cellular response to BMP stimulus	161	93	0.0449	Down
GO:0070208 protein heterotrimerization	161	93	0.0453	Down
GO:0003323 type B pancreatic cell development	161	93	0.0497	Down
GO:0007423 sensory organ development	160	92	0.0438	Down
GO:0001764 neuron migration	160	92	0.0466	Down
GO:0003205 cardiac chamber development	160	92	0.0484	Down
GO:0001837 epithelial to mesenchymal transition	160	92	0.0488	Down
GO:0060317 cardiac epithelial to mesenchymal transition	160	92	0.0488	Down
GO:0014066 regulation of phosphatidylinositol 3-kinase signaling	160	92	0.0489	Down
GO:0048015 phosphatidylinositol-mediated signaling	160	92	0.0499	Down
GO:0007416 synapse assembly	159	91	0.0381	Down
GO:0030510 regulation of BMP signaling pathway	159	91	0.0482	Down
GO:0021536 diencephalon development	159	91	0.0495	Down
GO:0044331 cell-cell adhesion mediated by cadherin	158	91	0.0244	Down
GO:0051954 positive regulation of amine transport	158	91	0.0439	Down
GO:0085029 extracellular matrix assembly	158	91	0.0455	Down
GO:0098742 cell-cell adhesion via plasma-membrane adhesion molecules	158	91	0.0458	Down
GO:0007178 transmembrane receptor protein serine/threonine kinase signaling pathway	158	91	0.0469	Down
GO:0003198 epithelial to mesenchymal transition involved in endocardial cushion formation	158	91	0.0491	Down
GO:0007156 homophilic cell adhesion via plasma membrane adhesion molecules	158	91	0.0492	Down
GO:0097485 neuron projection guidance	158	91	0.0496	Down
GO:0007411 axon guidance	158	91	0.0500	Down
GO:0010717 regulation of epithelial to mesenchymal transition	157	90	0.0441	Down
GO:0021761 limbic system development	157	90	0.0452	Down
GO:0072578 neurotransmitter-gated ion channel clustering	157	90	0.0459	Down
GO:0015671 oxygen transport	157	90	0.0475	Down

<b>Set</b>	<b>n</b>	<b>Percentage</b>	<b><i>p-value</i></b>	<b>Status</b>
GO:0060079 excitatory postsynaptic potential	157	90	0.0487	Down
GO:0016339 calcium-dependent cell-cell adhesion via plasma membrane cell adhesion molecules	157	90	0.0492	Down
GO:0048863 stem cell differentiation	157	90	0.0497	Down
GO:0043518 negative regulation of DNA damage response, signal transduction by p53 class mediator	157	90	0.0497	Down

**Annex XXIII The remaining 258 identified genes whose DNA methylation were able to predict survival in patients with AML-M0-M1-M2-M4-M5 categorized in the intermediate prognostic risk group.**

CpG sites	<i>p-value</i>	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg19863563	0.0006	0.8924	47	38	0.1519	2.5269	<i>NTNG1</i>
cg18506679	0.0010	0.8841	48	35	0.0598	2.5185	<i>OLFML2A</i>
cg16114831	0.0023	0.7634	49	32	0.5235	2.5175	<i>ABLIM2</i>
cg16784198	0.0005	0.8751	46	39	0.0555	2.5160	<i>DNAJB6</i>
cg10516336	0.0003	0.0596	42	46	0.0946	2.5030	<i>ABCC5</i>
cg02486268	0.0008	0.8455	50	37	0.6801	2.5026	<i>FGF3</i>
cg03905134	0.0004	0.8782	45	40	0.4101	2.4935	<i>SNORA70</i>
cg11335960	0.0010	0.7567	51	35	0.1827	2.4873	<i>ISLR</i>
cg01042368	0.0006	0.8372	34	50	0.0840	2.4852	<i>GPR179</i>
cg11593247	0.0004	0.8057	34	52	0.1274	2.4830	<i>PYGM</i>
cg10259518	0.0010	0.8708	39	38	0.0778	2.4824	<i>NGEF</i>
cg03951153	0.0004	0.033	41	47	0.0984	2.4676	<i>CPOX</i>
cg13081014	0.0007	0.8394	45	40	0.2015	2.4559	<i>FMO1</i>
cg06866395	0.0026	0.8114	50	34	0.2719	2.4395	<i>TMEM266</i>
cg08756008	0.0006	0.7901	36	50	0.0556	2.4368	<i>BAG3</i>
cg02885428	0.0008	0.8165	41	44	0.1989	2.4311	<i>FRMD1</i>
cg12048341	0.0005	0.8775	37	50	0.8975	2.4241	<i>NAVI</i>
cg21901928	0.0030	0.8701	41	31	0.2721	2.4241	<i>EGFR</i>
cg10753636	0.0011	0.8721	40	43	0.0642	2.4181	<i>MIR520A</i>
cg17877470	0.0012	0.0702	40	40	0.0726	2.4158	<i>ZNF846</i>
cg21644914	0.0020	0.8333	49	35	0.0701	2.4144	<i>IGFBP5</i>
cg26884359	0.0013	0.8518	50	36	0.0821	2.4067	<i>DHX58</i>
cg05130129	0.0014	0.8249	46	38	0.0646	2.3771	<i>ENPP6</i>
cg11229160	0.0017	0.8694	43	41	0.1822	2.3714	<i>FARS2</i>
cg10054313	0.0008	0.0394	36	50	0.4005	2.3709	<i>MEGF8</i>
cg05576795	0.0016	0.8702	29	48	0.0976	2.3672	<i>NSG2</i>
cg09181104	0.0009	0.8699	34	51	0.2855	2.3657	<i>C1orf109</i>
cg09747891	0.0053	0.8286	45	30	0.1034	2.3626	<i>ADAMTS12</i>
cg19211186	0.0020	0.8457	45	35	0.0824	2.3529	<i>FAM241B</i>
cg00236601	0.0009	0.8896	37	49	0.1183	2.3286	<i>ZNF146</i>
cg01920182	0.0018	0.8706	35	50	0.1311	2.3268	<i>SOX5</i>
cg17154313	0.0020	0.0813	45	39	0.3021	2.3225	<i>COL13A1</i>
cg14403642	0.0009	0.8618	37	49	0.3900	2.3216	<i>CDK20</i>
cg19843449	0.0028	0.8819	28	46	0.1279	2.3063	<i>GABRG3</i>
cg14161159	0.0011	0.9141	40	49	0.4805	2.3012	<i>C2orf27A</i>
cg01483518	0.0037	0.8583	51	34	0.3235	2.2996	<i>OR2Y1</i>
cg03573068	0.0030	0.1169	55	34	0.3440	2.2890	<i>SLC6A5</i>
cg10020934	0.0015	0.8745	36	48	0.1454	2.2879	<i>CACNG5</i>

CpG sites	<i>p-value</i>	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg03465652	0.0011	0.5018	34	55	0.5319	2.2846	<i>GLI2</i>
cg13144594	0.0044	0.818	44	33	0.0892	2.2776	<i>TNFAIP2</i>
cg08109505	0.0021	0.0862	39	45	0.0817	2.2464	<i>SLC37A3</i>
cg13540805	0.0019	0.8367	36	50	0.4029	2.2429	<i>LMNTD1</i>
cg19707503	0.0028	0.8375	46	37	0.1706	2.2382	<i>NFKBIE</i>
cg22179256	0.0038	0.8761	47	36	0.3700	2.2375	<i>SLC5A5</i>
cg17529745	0.0038	0.8393	54	34	0.5174	2.2362	<i>EBF3</i>
cg22549339	0.0028	0.8948	36	45	0.8269	2.2314	<i>OCA2</i>
cg00615654	0.0019	0.8903	36	48	0.3090	2.2281	<i>ADARB2</i>
cg18547838	0.0053	0.8844	50	32	0.1392	2.2217	<i>ARID5B</i>
cg02027010	0.0024	0.0358	35	50	0.4136	2.2216	<i>ALAD</i>
cg07782808	0.0026	0.8825	38	48	0.1994	2.2210	<i>KRTAP17-1</i>
cg01100703	0.0041	0.8838	48	35	0.1064	2.2096	<i>ADAMTS8</i>
cg08907257	0.0022	0.8614	34	52	0.2434	2.2074	<i>TRAF7</i>
cg22675150	0.0027	0.8711	46	39	0.1541	2.2066	<i>TUBA3C</i>
cg03499905	0.0043	0.8701	47	36	0.3367	2.1998	<i>COL4A1</i>
cg06750076	0.0029	0.8315	34	52	0.1498	2.1982	<i>VOPPI</i>
cg25140133	0.0059	0.7995	53	33	0.1332	2.1958	<i>MIR4634</i>
cg03256601	0.0036	0.8624	44	37	0.2088	2.1883	<i>FAM53A</i>
cg19917720	0.0021	0.8639	37	49	0.1995	2.1881	<i>PLSCR2</i>
cg22264813	0.0029	0.7985	41	44	0.0878	2.1775	<i>WDR60</i>
cg04588710	0.0027	0.904	38	49	0.6905	2.1742	<i>OR4K17</i>
cg12060838	0.0034	0.8929	39	45	0.6732	2.1735	<i>KIRRELI</i>
cg25789216	0.0032	0.015	49	39	0.8897	2.1682	<i>CNIH2</i>
cg04476531	0.0035	0.8466	38	46	0.2846	2.1650	<i>MACROD2</i>
cg16025492	0.0031	0.8995	34	50	0.1076	2.1650	<i>FEM1C</i>
cg07903153	0.0039	0.3211	50	38	0.6765	2.1644	<i>SEPHS2</i>
cg24913110	0.0043	0.8783	45	39	0.1363	2.1600	<i>DEFA5</i>
cg01165355	0.0047	0.8607	35	44	0.8551	2.1509	<i>PRICKLE2</i>
cg07745344	0.0047	0.8677	44	36	0.1427	2.1432	<i>TDRP</i>
cg05919312	0.0060	0.8294	50	33	0.2208	2.1408	<i>CYB5R2</i>
cg03100044	0.0034	0.877	39	47	0.5875	2.1392	<i>CHN2</i>
cg01393841	0.0031	0.9014	33	52	0.2519	2.1366	<i>GPSM1</i>
cg21624165	0.0076	0.7173	49	35	0.9097	2.1262	<i>GRM6</i>
cg06810134	0.0051	0.8697	48	36	0.7792	2.1234	<i>BSG</i>
cg04743859	0.0062	0.8723	48	39	0.1442	2.1210	<i>TCIRG1</i>
cg04841371	0.0040	0.8554	35	52	0.0579	2.1179	<i>SPRR1A</i>
cg24893364	0.0063	0.0458	53	36	0.3982	2.1159	<i>METTL5</i>
cg15466245	0.0063	0.868	51	34	0.3213	2.1157	<i>ADAM15</i>
cg20584157	0.0061	0.8814	38	42	0.3598	2.1097	<i>PRICKLE2</i>
cg21497236	0.0060	0.8264	47	39	0.2761	2.1091	<i>SYNE4</i>

CpG sites	<i>p</i> -value	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg03033996	0.0065	0.852	41	41	0.0711	2.1089	<i>ABLIM2</i>
cg21986035	0.0049	0.8755	47	40	0.3918	2.1068	<i>MIR4655</i>
cg18770739	0.0061	0.7253	50	36	0.6457	2.1024	<i>OR10P1</i>
cg19472254	0.0045	0.887	38	47	0.1803	2.0998	<i>ATP8B3</i>
cg15638292	0.0044	0.8812	40	43	0.9600	2.0987	<i>MYO7A</i>
cg26113962	0.0085	0.888	43	40	0.0689	2.0983	<i>HTR1D</i>
cg02917889	0.0075	0.8233	34	39	0.0521	2.0975	<i>ARHGEF4</i>
cg14779404	0.0087	0.8825	45	36	0.5491	2.0920	<i>PITX1</i>
cg07394259	0.0082	0.8477	48	32	0.8327	2.0848	<i>FAM110B</i>
cg06201219	0.0044	0.7443	39	45	0.2257	2.0795	<i>ITIH5</i>
cg16912319	0.0092	0.8381	52	33	0.1044	2.0714	<i>KIAA2012</i>
cg09723488	0.0071	0.7891	50	36	0.1264	2.0694	<i>LHX6</i>
cg13710542	0.0075	0.8706	46	41	0.3949	2.0637	<i>EXD3</i>
cg17377797	0.0056	0.8764	34	49	0.3713	2.0599	<i>OR6C1</i>
cg10096321	0.0051	0.8631	35	50	1.0000	2.0558	<i>ZBTB16</i>
cg18499321	0.0103	0.8809	49	33	0.2388	2.0533	<i>RIMBP2</i>
cg06269928	0.0098	0.8699	38	37	0.5670	2.0512	<i>MAP1LC3C</i>
cg16999602	0.0054	0.7864	40	47	0.1560	2.0497	<i>SLC1A7</i>
cg02167753	0.0100	0.793	32	46	0.0778	2.0491	<i>TSPAN18</i>
cg14061609	0.0166	0.891	49	30	0.3498	2.0475	<i>TBX5</i>
cg22348356	0.0056	0.8972	35	53	0.9898	2.0431	<i>RASA3</i>
cg24655336	0.0063	0.8781	36	46	0.4920	2.0399	<i>GPRIN1</i>
cg02546490	0.0061	0.8621	39	46	0.0572	2.0395	<i>AATK</i>
cg26057765	0.0071	0.8692	41	43	0.2767	2.0354	<i>MTERF1</i>
cg27260984	0.0101	0.8778	50	33	0.6152	2.0251	<i>HS3ST3A1</i>
cg25368560	0.0099	0.8524	37	44	0.5757	2.0250	<i>PGBD5</i>
cg05719742	0.0065	0.8366	35	51	0.0956	2.0244	<i>ZNF503-AS1</i>
cg21785145	0.0111	0.8568	47	37	0.7319	2.0241	<i>CACNA1G</i>
cg04622024	0.0057	0.5749	40	49	0.6322	2.0211	<i>EPHA10</i>
cg20635409	0.0058	0.3655	38	51	0.4232	2.0150	<i>ASCL1</i>
cg10168419	0.0100	0.8453	51	37	0.1355	2.0083	<i>HGSNAT</i>
cg03705718	0.0069	0.3868	37	47	0.8428	2.0079	<i>SLC16A14</i>
cg10503007	0.0140	0.8696	39	34	0.1535	2.0071	<i>NTSR2</i>
cg00574639	0.0143	0.8869	43	35	0.1879	2.0063	<i>EFEMP1</i>
cg12622273	0.0066	0.8499	38	49	0.0900	1.9984	<i>LGI4</i>
cg03717414	0.0095	0.8528	36	47	0.2800	1.9929	<i>MAPK11</i>
cg26082023	0.0085	0.8869	45	43	0.0948	1.9887	<i>MUC4</i>
cg09664492	0.0068	0.8641	35	51	0.2697	1.9843	<i>PROM2</i>
cg07219227	0.0071	0.8203	38	51	0.1288	1.9786	<i>SMARCD3</i>
cg00372692	0.0119	0.8895	52	35	0.2987	1.9779	<i>ICOS</i>
cg27118986	0.0169	0.8813	52	32	0.9779	1.9752	<i>ZFHX2</i>

CpG sites	<i>p</i> -value	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg14592830	0.0222	0.0443	50	31	0.6688	1.9750	<i>BRINP1</i>
cg10721490	0.0083	0.0315	40	44	0.3027	1.9712	<i>TBC1D32</i>
cg24934400	0.0165	0.1129	55	34	0.3819	1.9626	<i>MSX1</i>
cg04235768	0.0081	0.6609	40	49	0.4577	1.9611	<i>PRDM8</i>
cg14246940	0.0131	0.8062	34	44	0.2361	1.9590	<i>LMX1B</i>
cg24768463	0.0107	0.8686	34	49	0.3059	1.9578	<i>ATNI</i>
cg10588720	0.0153	0.8797	48	35	0.7713	1.9553	<i>NRSN1</i>
cg20233228	0.0124	0.8955	48	38	0.1524	1.9435	<i>TEAD1</i>
cg02054568	0.0132	0.7888	45	41	0.1799	1.9397	<i>LCE3D</i>
cg00966557	0.0138	0.8596	46	41	0.0897	1.9393	<i>PPARGC1B</i>
cg16866892	0.0105	0.8575	41	46	0.1945	1.9293	<i>CACNA1C</i>
cg25940557	0.0159	0.8363	51	36	0.0918	1.9284	<i>OR10Z1</i>
cg22995904	0.0208	0.8811	51	34	0.0625	1.9232	<i>FGD5</i>
cg12631713	0.0191	0.8034	53	33	0.8173	1.9198	<i>AJAP1</i>
cg05808319	0.0221	0.0168	42	36	0.5440	1.9183	<i>MIR129-2</i>
cg19864941	0.0242	0.8827	54	33	0.6969	1.9172	<i>PITPNM1</i>
cg17188169	0.0200	0.8973	28	46	0.3814	1.9119	<i>DDX43</i>
cg00291877	0.0144	0.0297	42	43	0.0610	1.9103	<i>SNRPA1</i>
cg24312874	0.0206	0.8117	44	37	0.3985	1.9099	<i>TTC34</i>
cg02920178	0.0165	0.8574	44	42	0.2539	1.9079	<i>UBE2I</i>
cg07501052	0.0117	0.8604	37	48	0.0691	1.9072	<i>GLB1L2</i>
cg08400962	0.0101	0.4974	38	51	0.9570	1.9068	<i>CHST8</i>
cg12305870	0.0134	0.8754	47	40	0.5884	1.9052	<i>RBCK1</i>
cg02633600	0.0181	0.8817	32	46	0.2466	1.9033	<i>SOX8</i>
cg10988368	0.0146	0.8819	34	52	0.1412	1.9008	<i>ASCL2</i>
cg14538055	0.0204	0.0217	54	34	0.5258	1.8966	<i>RAB1B</i>
cg17923401	0.0144	0.9181	36	49	0.4876	1.8957	<i>SIGLEC7</i>
cg21291449	0.0228	0.8387	36	40	0.1044	1.8946	<i>C6orf136</i>
cg19201068	0.0138	0.8668	40	46	0.4695	1.8938	<i>NOG</i>
cg04274356	0.0165	0.9048	40	42	0.3855	1.8921	<i>TMEM72</i>
cg24258108	0.0130	0.909	37	49	0.8717	1.8906	<i>NSD3</i>
cg24645896	0.0160	0.8475	45	43	0.0725	1.8878	<i>BCL9</i>
cg10052687	0.0242	0.9076	52	34	0.8149	1.8854	<i>CLIP2</i>
cg07395930	0.0172	0.8705	45	41	0.0844	1.8827	<i>CLSTN1</i>
cg02471751	0.0168	0.8839	45	40	0.6218	1.8786	<i>SLC6A2</i>
cg05824973	0.0135	0.8103	40	47	0.4158	1.8779	<i>KRT6A</i>
cg04471045	0.0141	0.8688	36	50	0.1232	1.8759	<i>ADGRB1</i>
cg20715438	0.0198	0.8846	39	44	0.7425	1.8750	<i>RAP1GAP2</i>
cg17891088	0.0173	0.86	50	38	0.1568	1.8730	<i>KRT82</i>
cg18077580	0.0195	0.1102	41	40	0.9022	1.8631	<i>DLX5</i>
cg14564144	0.0242	0.886	48	38	0.0626	1.8550	<i>B4GALNT3</i>

CpG sites	<i>p</i> -value	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg27174861	0.0171	0.8767	36	51	0.3584	1.8529	<i>PTPRF</i>
cg13337064	0.0148	0.6273	36	53	0.2142	1.8486	<i>PCDHB15</i>
cg17614506	0.0176	0.8464	38	48	0.6261	1.8408	<i>LINC00525</i>
cg25042430	0.0167	0.203	41	48	0.1382	1.8367	<i>KIAA1217</i>
cg06676233	0.0223	0.0816	47	38	0.2028	1.8325	<i>NPL</i>
cg17453252	0.0175	0.7241	40	49	0.8982	1.8266	<i>COL4A2</i>
cg01737592	0.0291	0.8416	49	36	0.3366	1.8188	<i>MIR769</i>
cg01856384	0.0223	0.8767	33	51	0.4253	1.8137	<i>NCR2</i>
cg15261751	0.0246	0.8822	45	38	0.7111	1.8126	<i>PHACTR1</i>
cg12459514	0.0204	0.8751	35	49	0.2291	1.8118	<i>KLHL29</i>
cg13944644	0.0342	0.8922	45	35	0.2482	1.7982	<i>GULP1</i>
cg11647651	0.0246	0.017	46	40	0.9620	1.7916	<i>PLD2</i>
cg18854169	0.0386	0.7472	50	35	0.5465	1.7628	<i>RBP3</i>
cg20774846	0.0386	0.5486	52	37	0.4738	1.7292	<i>DPYS</i>
cg05246900	0.0384	0.8148	45	39	0.5124	1.7271	<i>UBE2I</i>
cg16010207	0.0461	0.8757	50	35	0.2330	1.7142	<i>PDE4DIP</i>
cg05935961	0.0404	0.8056	43	41	0.9038	1.7042	<i>WT1</i>
cg09263146	0.0437	0.8876	44	41	0.2067	1.6927	<i>SEMA6C</i>
cg07961456	0.0482	0.8897	44	43	0.2750	1.6679	<i>TEX35</i>
cg08229532	0.0270	0.4651	35	54	0.7719	0.5553	<i>TOPBP1</i>
cg07795968	0.0225	0.2845	40	49	0.3180	0.5512	<i>JPH2</i>
cg05004118	0.0198	0.0244	53	34	0.1288	0.5501	<i>VRK1</i>
cg02303801	0.0242	0.1535	49	30	0.2534	0.5449	<i>ARHGEF16</i>
cg17465930	0.0227	0.0231	37	47	0.6264	0.5396	<i>MATR3</i>
cg12346491	0.0195	0.0643	44	40	0.7812	0.5376	<i>GYP A</i>
cg10327067	0.0222	0.2451	32	53	0.7959	0.5368	<i>ZNF703</i>
cg02309627	0.0147	0.0463	49	40	0.8950	0.5367	<i>ZNF507</i>
cg08076125	0.0199	0.4059	37	52	0.4712	0.5350	<i>GRM1</i>
cg01229787	0.0217	0.0933	33	46	0.3272	0.5257	<i>MEF2A</i>
cg23698269	0.0128	0.073	44	41	0.3789	0.5247	<i>SBF2</i>
cg01319581	0.0131	0.878	41	45	0.4439	0.5229	<i>CTPS2</i>
cg15112395	0.0120	0.0235	48	34	0.5817	0.5215	<i>ZNF585B</i>
cg14686309	0.0173	0.044	37	45	0.5414	0.5208	<i>USP43</i>
cg21234506	0.0093	0.1444	52	37	0.7738	0.5197	<i>BCL2A1</i>
cg00459795	0.0126	0.0199	43	40	0.8624	0.5131	<i>ZNF514</i>
cg07567973	0.0116	0.014	33	52	0.4351	0.5011	<i>SRFBP1</i>
cg15736743	0.0059	0.3106	45	44	0.6369	0.4979	<i>KLHL29</i>
cg10402417	0.0140	0.0946	35	46	0.0583	0.4978	<i>TBC1D10C</i>
cg21793948	0.0088	0.0113	51	31	0.7449	0.4973	<i>BCL2</i>
cg17216243	0.0100	0.3022	34	55	0.7804	0.4964	<i>SSB</i>
cg25542319	0.0054	0.6596	52	37	0.8188	0.4954	<i>MCC</i>

CpG sites	<i>p</i> -value	Optimal cutpoint	Group1 (n)	Group 2 (n)	Age test (p-value)	HR	gene
cg18279337	0.0088	0.0747	38	46	0.6891	0.4933	<i>MYO5C</i>
cg00873517	0.0103	0.2918	37	42	0.2709	0.4905	<i>KHDRBS3</i>
cg06422694	0.0064	0.4317	37	52	0.2662	0.4902	<i>FLYWCH1</i>
cg09365677	0.0050	0.0266	54	33	0.7794	0.4857	<i>CHRM3</i>
cg04003903	0.0039	0.2095	52	37	0.5159	0.4843	<i>CPZ</i>
cg21761639	0.0040	0.3291	53	36	0.5781	0.4815	<i>ITPRID1</i>
cg01692379	0.0043	0.3286	43	46	0.8245	0.4769	<i>RNF39</i>
cg12843489	0.0034	0.3007	43	46	0.9574	0.4722	<i>RN7SK</i>
cg22698028	0.0043	0.1041	46	33	0.2548	0.4636	<i>AHRR</i>
cg26521139	0.0045	0.3368	34	55	0.9058	0.4616	<i>AGAP1</i>
cg01260103	0.0043	0.0156	35	52	0.0848	0.4517	<i>CPT1A</i>
cg04605617	0.0021	0.7684	51	35	0.3887	0.4451	<i>PLA2G2C</i>
cg13517138	0.0013	0.0204	52	35	0.3235	0.4388	<i>DLGAP5</i>
cg15590007	0.0008	0.2696	54	35	0.1094	0.4335	<i>ALOX5</i>
cg25639084	0.0009	0.193	47	42	0.6780	0.4332	<i>TNFRSF19</i>
cg15262954	0.0023	0.0137	39	37	0.5959	0.4291	<i>HELZ2</i>
cg02944084	0.0016	0.4351	36	53	0.8507	0.4287	<i>PNMT</i>
cg07020327	0.0006	0.027	49	40	0.6829	0.4197	<i>CDC23</i>
cg26294217	0.0015	0.0258	35	52	0.2566	0.4190	<i>PRKAA1</i>
cg11460820	0.0005	0.0169	47	39	0.4984	0.4124	<i>RPS24</i>
cg08999807	0.0007	0.0322	49	31	0.5467	0.4041	<i>GPC5</i>
cg03408904	0.0004	0.4948	36	53	0.2205	0.3862	<i>CECR2</i>
cg01529538	0.0001	0.0161	45	37	0.6278	0.3612	<i>RBM23</i>
cg23195687	0.0001	0.474	54	35	0.3132	0.3606	<i>MIR4679-2</i>
cg07380021	0.0002	0.1323	39	48	0.1431	0.3598	<i>RASSF5</i>
cg03074946	0.0255	0.831	47	36	0.5080		<i>PXN</i>
cg06623385	0.0022	0.0476	43	43	0.1832		<i>NPM3</i>
cg09277256	0.0270	0.7972	48	40	0.0565		<i>MIR4710</i>
cg01617933	0.0265	0.8747	48	37	0.0583		<i>CHN2</i>
cg16315582	0.0220	0.0556	34	46	0.4924		<i>CASP4</i>
cg22158547	0.0030	0.9345	51	32	1.0000		<i>SUSD4</i>
cg21101386	0.0267	0.8552	53	35	0.1300		<i>DLGAP4</i>
cg20079335	0.0281	0.8293	36	50	0.3647		<i>MAGEA2</i>
cg21304488	0.0215	0.8386	47	29	0.1502		<i>TIAF1</i>
cg08302300	0.0274	0.8314	50	35	0.1255		<i>ADARB2</i>
cg20960833	0.0290	0.8798	51	38	0.2590		<i>EN2</i>
cg15756928	0.0002	0.8851	42	36	0.3535		<i>GFRAL</i>
cg09044219	0.0422	0.0366	36	44	0.8808		<i>CCDC77</i>
cg03196437	0.0012	0.8778	40	47	0.0722		<i>FOXRI</i>
cg01118451	0.0335	0.0153	49	35	0.8275		<i>ENOX1</i>
cg13018793	0.0284	0.2814	36	53	0.5115		<i>LINC00242</i>

<b>CpG sites</b>	<b><i>p-value</i></b>	<b>Optimal cutpoint</b>	<b>Group1 (n)</b>	<b>Group 2 (n)</b>	<b>Age test (p-value)</b>	<b>HR</b>	<b>gene</b>
cg07615497	0.0382	0.4977	45	44	0.5993		<i>POU4F2</i>
cg16851924	0.0029	0.0321	36	38	0.8118		<i>CERKL</i>
cg11140606	0.0405	0.0216	48	38	0.5001		<i>PEF1</i>
cg02558162	0.0235	0.7988	45	28	0.1240		<i>CRABP1</i>
cg09950208	0.0052	0.2201	35	54	0.1180		<i>MGMT</i>
cg00073460	0.0186	0.2198	42	47	0.2039		<i>ZC3H12D</i>
cg19384717	0.0064	0.8861	34	51	0.0778		<i>NOTO</i>
cg01987224	0.0463	0.8608	46	31	0.1073		<i>CACNA1S</i>
cg11352369	0.0419	0.8775	47	37	0.7524		<i>SAMD1</i>
cg12439423	0.0107	0.8474	37	47	0.0765		<i>ANK1</i>
cg01023703	0.0162	0.4291	40	49	0.7790		<i>BAIAP3</i>
cg23222472	0.0182	0.203	35	46	0.7747		<i>LSMEM1</i>
cg04560098	0.0034	0.7457	33	52	0.2730		<i>TRIM10</i>
cg09633881	0.0157	0.1743	43	46	0.3365		<i>APTX</i>
cg25919979	0.0110	0.7786	34	54	0.0997		<i>GLI2</i>

**Annex XXIV Additional information about the 273 candidate biomarkers of prognostic of DNA methylation in patients with AML-M0-M1-M2-M4-M5 categorized in the intermediate prognostic risk group.**

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg14469693	Other Intron	low	1.10	-0.14	7.20E-15	non-leukemia cancer types
cg25068253	Distal Intergenic	low	1.05	-0.09	1.46E-14	non-AML leukemia types
cg17755518	Promoter (1-2kb)	low	1.24	-0.06	9.06E-14	cited in AML
cg17572155	Promoter (2-3kb)	low	1.02	-0.25	4.66E-16	non-AML leukemia types
cg03841832	Other Intron	low	1.36	-0.14	1.61E-24	non-leukemia cancer types
cg14495958	1st Intron	low	1.39	-0.08	4.70E-14	non-leukemia cancer types
cg01918114	1st Intron	low	1.19	-0.06	1.23E-14	non-leukemia cancer types
cg13184077	Other Intron	low	1.08	-0.05	1.02E-14	non-leukemia cancer types
cg26118637	Distal Intergenic	low	0.89	-0.02	5.11E-15	non-leukemia cancer types
cg15596913	Promoter (1-2kb)	low	0.98	-0.03	9.95E-16	non-leukemia cancer types
cg15861089	Promoter (<=1kb)	low	1.36	-0.07	4.50E-15	cited in PubMed
cg26208930	Promoter (<=1kb)	low	1.18	-0.07	5.70E-15	cited in AML
cg10350957	Other Exon	low	0.80	-0.06	6.59E-15	cited in AML
cg22356541	3' UTR	low	1.10	-0.04	7.19E-15	non-AML leukemia types
cg03863069	Promoter (2-3kb)	low	0.67	-0.05	7.67E-15	non-leukemia cancer types
cg19863563	Other Intron	low	1.24	-0.05	3.05E-15	non-leukemia cancer types
cg18506679	Promoter (<=1kb)	low	1.37	-0.03	9.81E-15	cited in AML
cg16114831	Other Intron	low	1.53	-0.08	5.52E-23	non-leukemia cancer types
cg16784198	Distal Intergenic	low	1.18	-0.04	2.65E-15	non-AML leukemia types
cg10516336	Promoter (<=1kb)	low	0.91	-0.02	7.27E-16	cited in AML
cg02486268	Distal Intergenic	low	1.35	-0.04	2.06E-15	non-AML leukemia types
cg03905134	Distal Intergenic	low	1.13	-0.06	2.38E-15	cited in PubMed
cg11335960	Promoter (<=1kb)	low	1.46	-0.09	4.47E-15	non-leukemia cancer types
cg01042368	Promoter (<=1kb)	low	0.68	-0.04	9.83E-15	cited in PubMed
cg11593247	Other Exon	low	0.65	-0.04	6.01E-15	non-AML leukemia types
cg10259518	Promoter (<=1kb)	low	1.03	-0.04	4.53E-14	non-leukemia cancer types
cg03951153	Promoter (<=1kb)	low	0.87	-0.01	7.88E-16	cited in AML
cg13081014	Promoter (<=1kb)	low	1.13	-0.08	6.93E-25	non-AML leukemia types

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg06866395	Other Intron	low	1.47	-0.06	9.83E-15	cited in PubMed
cg08756008	1st Intron	low	0.72	-0.07	3.43E-15	cited in AML
cg02885428	Promoter (<=1kb)	low	0.93	-0.05	2.22E-15	non-AML leukemia types
cg12048341	Other Intron	low	0.74	-0.08	2.06E-15	cited in AML
cg21901928	1st Intron	low	1.32	-0.09	5.14E-13	cited in AML
cg10753636	Promoter (1-2kb)	low	0.93	-0.06	4.76E-15	non-leukemia cancer types
cg17877470	Distal Intergenic	low	1.00	-0.06	1.43E-14	never cited
cg21644914	Distal Intergenic	low	1.40	-0.10	7.51E-15	non-AML leukemia types
cg26884359	Distal Intergenic	low	1.39	-0.07	3.43E-15	non-AML leukemia types
cg05130129	1st Intron	low	1.21	-0.03	4.14E-15	non-leukemia cancer types
cg11229160	Other Intron	low	1.05	-0.03	3.17E-15	non-AML leukemia types
cg10054313	Promoter (<=1kb)	low	0.72	-0.01	3.41E-15	non-leukemia cancer types
cg05576795	Distal Intergenic	low	0.60	-0.04	2.63E-13	non-AML leukemia types
cg09181104	Distal Intergenic	low	0.67	-0.05	7.66E-15	non-leukemia cancer types
cg09747891	Promoter (<=1kb)	low	1.50	-0.11	3.00E-13	non-AML leukemia types
cg19211186	Distal Intergenic	low	1.29	-0.04	2.29E-14	cited in PubMed
cg00236601	Distal Intergenic	low	0.76	-0.03	2.73E-15	non-leukemia cancer types
cg01920182	Promoter (<=1kb)	low	0.70	-0.16	5.77E-15	non-AML leukemia types
cg17154313	Promoter (<=1kb)	low	1.15	-0.03	3.66E-15	non-leukemia cancer types
cg14403642	Other Intron	low	0.76	-0.03	2.73E-15	non-leukemia cancer types
cg19843449	Promoter (<=1kb)	low	0.61	-0.06	7.38E-13	non-leukemia cancer types
cg14161159	Promoter (1-2kb)	low	0.82	-0.30	6.54E-16	cited in PubMed
cg01483518	Promoter (<=1kb)	low	1.50	-0.06	7.66E-15	cited in PubMed
cg03573068	Promoter (<=1kb)	low	1.62	-0.40	3.00E-15	cited in AML
cg10020934	Promoter (<=1kb)	low	0.75	-0.05	5.95E-15	non-leukemia cancer types
cg03465652	Other Intron	low	0.62	-0.34	3.00E-15	cited in AML
cg13144594	Promoter (1-2kb)	low	1.33	-0.08	3.18E-22	cited in AML
cg08109505	Promoter (<=1kb)	low	0.87	-0.03	3.66E-15	non-leukemia cancer types
cg13540805	Distal Intergenic	low	0.72	-0.06	3.43E-15	never cited

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg19707503	Other Exon	low	1.24	-0.04	6.58E-15	non-AML leukemia types
cg22179256	Other Intron	low	1.31	-0.04	7.90E-15	non-AML leukemia types
cg17529745	Other Intron	low	1.59	-0.04	3.75E-15	cited in AML
cg22549339	Distal Intergenic	low	0.80	-0.07	1.43E-14	non-leukemia cancer types
cg00615654	Other Intron	low	0.75	-0.04	5.95E-15	non-AML leukemia types
cg18547838	Other Intron	low	1.56	-0.05	2.96E-14	cited in AML
cg02027010	Promoter (<=1kb)	low	0.70	-0.01	5.73E-15	cited in AML
cg07782808	Distal Intergenic	low	0.79	-0.06	2.26E-15	cited in PubMed
cg01100703	Other Exon	low	1.37	-0.03	9.82E-15	non-leukemia cancer types
cg08907257	Other Exon	low	0.65	-0.03	6.00E-15	cited in AML
cg22675150	Promoter (<=1kb)	low	1.18	-0.03	2.64E-15	non-leukemia cancer types
cg03499905	Other Intron	low	1.31	-0.06	7.90E-15	non-AML leukemia types
cg06750076	Promoter (1-2kb)	low	0.65	-0.05	6.01E-15	non-leukemia cancer types
cg25140133	Distal Intergenic	low	1.61	-0.07	8.39E-15	never cited
cg03256601	Other Intron	low	1.19	-0.02	1.23E-14	non-leukemia cancer types
cg19917720	1st Intron	low	0.76	-0.06	2.73E-15	non-leukemia cancer types
cg22264813	Other Intron	low	0.93	-0.03	2.21E-15	non-leukemia cancer types
cg04588710	Promoter (<=1kb)	low	0.78	-0.21	1.68E-15	never cited
cg12060838	1st Intron	low	0.87	-0.04	3.66E-15	non-leukemia cancer types
cg25789216	Promoter (<=1kb)	low	1.26	0.00	1.02E-15	cited in PubMed
cg04476531	Other Intron	low	0.83	-0.22	4.16E-15	non-AML leukemia types
cg16025492	Distal Intergenic	low	0.68	-0.05	9.82E-15	non-leukemia cancer types
cg07903153	Promoter (<=1kb)	low	1.32	-0.04	1.26E-15	cited in AML
cg24913110	Distal Intergenic	low	1.15	-0.07	3.66E-15	non-leukemia cancer types
cg01165355	Distal Intergenic	low	0.80	-0.09	3.09E-14	non-leukemia cancer types
cg07745344	Distal Intergenic	low	1.22	-0.04	1.94E-14	cited in AML
cg05919312	Promoter (<=1kb)	low	1.52	-0.04	1.69E-14	non-leukemia cancer types
cg03100044	Promoter (<=1kb)	low	0.83	-0.05	1.92E-15	non-AML leukemia types
cg01393841	Other Intron	low	0.63	-0.04	1.05E-14	non-leukemia cancer types
cg21624165	Promoter (<=1kb)	low	1.40	-0.12	3.79E-24	non-leukemia cancer types
cg06810134	Promoter (2-3kb)	low	1.33	-0.03	5.94E-15	cited in AML

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg04743859	Promoter (<=1kb)	low	1.23	-0.04	1.41E-15	non-AML leukemia types
cg04841371	Promoter (1-2kb)	low	0.67	-0.09	3.47E-15	non-leukemia cancer types
cg24893364	Promoter (<=1kb)	low	1.47	-0.02	1.57E-15	non-leukemia cancer types
cg15466245	Other Intron	low	1.50	-0.03	7.66E-15	non-AML leukemia types
cg20584157	Other Intron	low	0.90	-0.08	1.55E-14	non-leukemia cancer types
cg21497236	3' UTR	low	1.21	-0.04	1.93E-15	cited in PubMed
cg03033996	Promoter (2-3kb)	low	1.00	-0.04	6.69E-15	non-leukemia cancer types
cg21986035	Distal Intergenic	low	1.18	-0.04	1.23E-15	never cited
cg18770739	Promoter (<=1kb)	low	1.39	-0.08	3.43E-15	cited in PubMed
cg19472254	Other Exon	low	0.81	-0.03	3.05E-15	non-leukemia cancer types
cg15638292	Other Intron	low	0.93	-0.21	4.76E-15	non-leukemia cancer types
cg26113962	Distal Intergenic	low	1.08	-0.05	4.76E-15	non-leukemia cancer types
cg02917889	Other Intron	low	0.87	-0.05	2.36E-13	non-AML leukemia types
cg14779404	Other Intron	low	1.25	-0.05	1.43E-14	cited in AML
cg07394259	Other Intron	low	1.50	-0.08	4.79E-14	non-leukemia cancer types
cg06201219	3' UTR	low	0.87	-0.04	3.66E-15	cited in AML
cg16912319	Other Intron	low	1.58	-0.05	1.05E-14	never cited
cg09723488	Promoter (1-2kb)	low	1.39	-0.07	3.43E-15	non-AML leukemia types
cg13710542	Promoter (<=1kb)	low	1.12	-0.05	1.11E-15	non-leukemia cancer types
cg17377797	Promoter (<=1kb)	low	0.69	-0.06	1.27E-14	non-leukemia cancer types
cg10096321	Other Exon	low	0.70	-0.03	5.76E-15	cited in AML
cg18499321	5' UTR	low	1.48	-0.04	2.17E-14	cited in PubMed
cg06269928	Distal Intergenic	low	1.03	-0.03	9.72E-14	cited in AML
cg16999602	Promoter (<=1kb)	low	0.85	-0.06	1.23E-15	non-leukemia cancer types
cg02167753	Distal Intergenic	low	0.70	-0.08	7.93E-14	non-leukemia cancer types
cg14061609	Distal Intergenic	low	1.63	-0.05	1.17E-13	non-AML leukemia types
cg22348356	1st Intron	low	0.66	-0.04	2.72E-15	cited in AML
cg24655336	3' UTR	low	0.78	-0.03	1.06E-14	non-leukemia cancer types
cg02546490	Promoter (<=1kb)	low	0.85	-0.04	2.65E-15	non-AML leukemia types
cg26057765	Distal Intergenic	low	0.95	-0.04	3.17E-15	non-leukemia cancer types
cg27260984	3' UTR	low	1.52	-0.06	1.69E-14	non-leukemia cancer types
cg25368560	1st Intron	low	0.84	-0.07	1.23E-14	non-leukemia cancer types

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg05719742	Distal Intergenic	low	0.69	-0.03	4.46E-15	cited in PubMed
cg21785145	Promoter (2-3kb)	low	1.27	-0.04	4.88E-15	cited in AML
cg04622024	Other Exon	low	0.82	-0.30	6.01E-26	non-AML leukemia types
cg20635409	Distal Intergenic	low	0.75	-0.33	9.49E-16	non-AML leukemia types
cg10168419	Distal Intergenic	low	1.38	-0.03	1.57E-15	cited in PubMed
cg03705718	Promoter (<=1kb)	low	0.79	-0.04	4.88E-15	non-leukemia cancer types
cg10503007	Downstream (<=300)	low	1.15	-0.09	2.36E-13	non-AML leukemia types
cg00574639	Other Intron	low	1.23	-0.06	4.19E-14	non-leukemia cancer types
cg12622273	Promoter (<=1kb)	low	0.78	-0.04	1.68E-15	non-leukemia cancer types
cg03717414	Other Exon	low	0.77	-0.04	7.89E-15	non-AML leukemia types
cg26082023	Promoter (2-3kb)	low	1.05	-0.04	6.90E-16	cited in AML
cg09664492	Promoter (<=1kb)	low	0.69	-0.05	4.46E-15	non-leukemia cancer types
cg07219227	Distal Intergenic	low	0.75	-0.24	9.49E-16	non-AML leukemia types
cg00372692	Promoter (1-2kb)	low	1.49	-0.06	3.47E-15	cited in AML
cg27118986	Promoter (<=1kb)	low	1.63	-0.05	1.87E-14	cited in PubMed
cg14592830	Distal Intergenic	low	1.61	-0.03	5.24E-14	non-AML leukemia types
cg10721490	Promoter (<=1kb)	low	0.91	-0.01	3.32E-15	non-leukemia cancer types
cg24934400	Distal Intergenic	low	1.62	-0.52	3.00E-15	cited in AML
cg04235768	Promoter (<=1kb)	low	0.82	-0.37	6.54E-16	non-leukemia cancer types
cg14246940	Other Intron	low	0.77	-0.09	4.99E-14	non-AML leukemia types
cg24768463	Promoter (<=1kb)	low	0.69	-0.04	9.10E-24	non-AML leukemia types
cg10588720	Distal Intergenic	low	1.37	-0.06	9.83E-15	non-leukemia cancer types
cg20233228	Promoter (2-3kb)	low	1.26	-0.05	2.25E-15	non-AML leukemia types
cg02054568	Promoter (<=1kb)	low	1.10	-0.14	1.56E-15	non-leukemia cancer types
cg00966557	Other Intron	low	1.12	-0.05	1.11E-15	cited in AML
cg16866892	Other Intron	low	0.89	-0.06	1.11E-15	non-AML leukemia types
cg25940557	Promoter (1-2kb)	low	1.42	-0.04	2.62E-15	cited in PubMed
cg22995904	Promoter (<=1kb)	low	1.50	-0.05	7.65E-15	non-leukemia cancer types

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg12631713	Other Exon	low	1.61	-0.22	8.38E-15	non-leukemia cancer types
cg05808319	Distal Intergenic	low	1.17	-0.01	3.64E-14	cited in AML
cg19864941	Other Exon	low	1.64	-0.03	6.69E-15	non-leukemia cancer types
cg17188169	Promoter (<=1kb)	low	0.61	-0.10	7.38E-13	cited in AML
cg00291877	Promoter (<=1kb)	low	0.98	-0.01	2.13E-15	non-AML leukemia types
cg24312874	Distal Intergenic	low	1.19	-0.12	1.23E-14	non-leukemia cancer types
cg02920178	Promoter (<=1kb)	low	1.05	-0.04	1.48E-15	cited in AML
cg07501052	1st Intron	low	0.77	-0.03	3.64E-15	non-leukemia cancer types
cg08400962	Promoter (<=1kb)	low	0.75	-0.39	9.49E-16	non-leukemia cancer types
cg12305870	5' UTR	low	1.18	-0.03	1.23E-15	non-AML leukemia types
cg02633600	Distal Intergenic	low	0.70	-0.04	7.92E-14	non-leukemia cancer types
cg10988368	Promoter (1-2kb)	low	0.65	-0.04	6.00E-15	non-AML leukemia types
cg14538055	Promoter (<=1kb)	low	1.59	-0.01	3.72E-15	cited in AML
cg17923401	Promoter (1-2kb)	low	0.73	-0.11	4.51E-15	cited in AML
cg21291449	Promoter (<=1kb)	low	0.90	-0.06	7.14E-14	non-leukemia cancer types
cg19201068	Distal Intergenic	low	0.87	-0.05	1.70E-15	cited in AML
cg04274356	Distal Intergenic	low	0.95	-0.07	6.80E-15	non-leukemia cancer types
cg24258108	1st Intron	low	0.76	-0.05	2.73E-15	cited in AML
cg24645896	Promoter (<=1kb)	low	1.05	-0.06	6.91E-16	cited in AML
cg10052687	Promoter (2-3kb)	low	1.53	-0.25	6.01E-15	non-AML leukemia types
cg07395930	Promoter (2-3kb)	low	1.10	-0.03	1.56E-15	non-AML leukemia types
cg02471751	Promoter (1-2kb)	low	1.13	-0.04	2.38E-15	non-AML leukemia types
cg05824973	3' UTR	low	0.85	-0.16	1.23E-15	non-leukemia cancer types
cg04471045	Other Intron	low	0.72	-0.03	3.43E-15	cited in AML
cg20715438	Other Intron	low	0.89	-0.09	2.75E-24	non-leukemia cancer types
cg17891088	Promoter (<=1kb)	low	1.32	-0.05	1.26E-15	non-leukemia cancer types
cg18077580	Promoter (1-2kb)	low	1.03	-0.03	9.82E-15	cited in AML
cg14564144	Promoter (1-2kb)	low	1.26	-0.05	2.25E-15	non-leukemia cancer types
cg27174861	Other Exon	low	0.71	-0.05	2.63E-15	non-leukemia cancer types

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg13337064	Promoter (<=1kb)	low	0.68	-0.38	1.58E-15	non-leukemia cancer types
cg17614506	Promoter (1-2kb)	low	0.79	-0.13	5.36E-25	non-leukemia cancer types
cg25042430	Promoter (1-2kb)	low	0.85	-0.34	5.71E-16	non-leukemia cancer types
cg06676233	Promoter (<=1kb)	low	1.24	-0.02	3.04E-15	cited in AML
cg17453252	Other Intron	low	0.82	-0.26	6.54E-16	non-AML leukemia types
cg01737592	Promoter (<=1kb)	low	1.36	-0.04	4.50E-15	never cited
cg01856384	Distal Intergenic	low	0.65	-0.15	1.33E-14	cited in AML
cg15261751	Distal Intergenic	low	1.18	-0.05	5.70E-15	non-AML leukemia types
cg12459514	Other Intron	low	0.71	-0.03	7.51E-15	non-leukemia cancer types
cg13944644	Other Intron	low	1.29	-0.06	2.30E-14	non-AML leukemia types
cg11647651	Promoter (<=1kb)	low	1.15	0.00	1.68E-15	cited in AML
cg18854169	Promoter (1-2kb)	low	1.43	-0.09	5.78E-15	non-leukemia cancer types
cg20774846	Promoter (<=1kb)	low	1.41	-0.35	1.20E-15	non-AML leukemia types
cg05246900	Promoter (1-2kb)	low	1.15	-0.05	3.66E-15	cited in AML
cg16010207	Promoter (1-2kb)	low	1.43	-0.07	5.77E-15	non-leukemia cancer types
cg05935961	Distal Intergenic	low	1.05	-0.06	3.17E-15	cited in AML
cg09263146	Other Exon	low	1.07	-0.04	2.22E-15	non-leukemia cancer types
cg07961456	Other Intron	low	1.02	-0.03	9.98E-16	cited in PubMed
cg08229532	Promoter (<=1kb)	high	0.65	-0.28	2.14E-15	non-AML leukemia types
cg07795968	Promoter (1-2kb)	high	0.82	-0.47	6.01E-26	non-leukemia cancer types
cg05004118	Promoter (<=1kb)	high	1.56	-0.01	4.67E-15	non-AML leukemia types
cg02303801	Distal Intergenic	high	1.63	-0.16	3.61E-22	non-leukemia cancer types
cg17465930	Promoter (<=1kb)	high	0.79	-0.01	4.85E-15	cited in AML
cg12346491	Distal Intergenic	high	1.10	-0.25	1.31E-24	cited in AML
cg10327067	Distal Intergenic	high	0.60	-0.31	1.50E-14	non-AML leukemia types
cg02309627	Distal Intergenic	high	1.23	-0.01	6.51E-16	cited in PubMed
cg08076125	Promoter (<=1kb)	high	0.71	-0.46	1.20E-15	non-AML leukemia types
cg01229787	Distal Intergenic	high	0.72	-0.23	4.70E-14	cited in AML

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg23698269	Promoter (1-2kb)	high	1.07	-0.03	2.22E-15	cited in AML
cg01319581	Promoter (<=1kb)	high	0.91	-0.06	1.56E-15	non-leukemia cancer types
cg15112395	Promoter (<=1kb)	high	1.41	-0.01	1.63E-14	never cited
cg14686309	Promoter (<=1kb)	high	0.82	-0.01	8.93E-15	non-leukemia cancer types
cg21234506	Promoter (<=1kb)	high	1.41	-0.56	1.20E-15	cited in AML
cg00459795	Promoter (<=1kb)	high	1.08	0.00	4.71E-15	never cited
cg07567973	Promoter (<=1kb)	high	0.63	0.00	1.03E-14	non-leukemia cancer types
cg15736743	Other Intron	high	1.02	-0.37	3.85E-26	non-leukemia cancer types
cg10402417	Promoter (<=1kb)	high	0.76	-0.03	1.72E-14	cited in AML
cg21793948	Promoter (1-2kb)	high	1.65	0.00	4.10E-14	cited in AML
cg17216243	Distal Intergenic	high	0.62	-0.47	3.00E-15	cited in AML
cg25542319	1st Intron	high	1.41	-0.46	1.20E-15	cited in AML
cg18279337	Promoter (<=1kb)	high	0.83	-0.03	7.89E-18	non-leukemia cancer types
cg00873517	1st Intron	high	0.88	-0.13	1.57E-17	non-leukemia cancer types
cg06422694	Distal Intergenic	high	0.71	-0.37	1.20E-15	cited in AML
cg09365677	Other Intron	high	1.64	-0.01	6.68E-15	non-leukemia cancer types
cg04003903	Other Intron	high	1.41	-0.23	1.20E-15	cited in AML
cg21761639	Distal Intergenic	high	1.47	-0.45	1.58E-15	never cited
cg01692379	Promoter (<=1kb)	high	0.93	-0.35	4.82E-16	non-leukemia cancer types
cg12843489	Distal Intergenic	high	0.93	-0.41	4.82E-16	non-leukemia cancer types
cg22698028	Other Intron	high	1.39	-0.07	4.70E-14	non-AML leukemia types
cg26521139	Other Intron	high	0.62	-0.44	3.00E-15	non-AML leukemia types
cg01260103	Promoter (<=1kb)	high	0.67	0.00	3.38E-15	cited in AML
cg04605617	Promoter (<=1kb)	high	1.46	-0.30	4.47E-15	non-leukemia cancer types
cg13517138	Promoter (<=1kb)	high	1.49	0.00	3.39E-15	cited in AML
cg15590007	Promoter (<=1kb)	high	1.54	-0.44	2.14E-15	cited in AML
cg25639084	Distal Intergenic	high	1.12	-0.53	5.16E-16	non-AML leukemia types
cg15262954	Promoter (<=1kb)	high	1.05	-0.01	6.67E-14	cited in AML

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b>p-value</b>	<b>Bibliographic analysis</b>
cg02944084	Promoter (2-3kb)	high	0.68	-0.41	1.58E-15	non-leukemia cancer types
cg07020327	Promoter (<=1kb)	high	1.23	-0.01	6.51E-16	cited in AML
cg26294217	Promoter (<=1kb)	high	0.67	-0.01	3.44E-15	cited in AML
cg11460820	Promoter (<=1kb)	high	1.21	0.00	1.88E-15	cited in AML
cg08999807	Promoter (<=1kb)	high	1.58	-0.01	6.55E-14	non-leukemia cancer types
cg03408904	Promoter (<=1kb)	high	0.68	-0.43	1.58E-15	non-leukemia cancer types
cg01529538	Promoter (<=1kb)	high	1.22	0.00	8.83E-15	non-leukemia cancer types
cg23195687	Distal Intergenic	high	1.54	-0.51	2.14E-15	never cited
cg07380021	Promoter (1-2kb)	high	0.81	-0.12	1.41E-15	non-AML leukemia types
cg03074946	Promoter (<=1kb)	high	1.31	-0.10	7.91E-15	cited in AML
cg06623385	Promoter (<=1kb)	high	1.00	-0.01	1.45E-15	non-leukemia cancer types
cg09277256	Distal Intergenic	high	1.20	-0.08	8.93E-16	never cited
cg01617933	Other Intron	high	1.30	-0.05	3.64E-15	non-AML leukemia types
cg16315582	Promoter (<=1kb)	high	0.74	-0.02	2.82E-14	cited in AML
cg22158547	1st Intron	low	1.59	-0.16	2.35E-14	non-AML leukemia types
cg21101386	Promoter (<=1kb)	high	1.51	-0.05	2.72E-15	non-leukemia cancer types
cg20079335	Promoter (<=1kb)	low	0.72	-0.11	3.43E-15	non-AML leukemia types
cg21304488	Downstream (<=300)	low	1.62	-0.07	3.29E-13	cited in AML
cg08302300	Other Intron	high	1.43	-0.08	5.78E-15	non-AML leukemia types
cg20960833	Distal Intergenic	low	1.34	-0.19	9.49E-16	cited in AML
cg15756928	3' UTR	low	1.17	-0.05	9.23E-23	non-leukemia cancer types
cg09044219	Promoter (<=1kb)	high	0.82	-0.01	1.93E-14	cited in PubMed
cg03196437	Promoter (<=1kb)	low	0.85	-0.03	1.23E-15	non-leukemia cancer types
cg01118451	Promoter (<=1kb)	low	1.40	0.00	7.38E-15	non-leukemia cancer types
cg13018793	Distal Intergenic	low	0.68	-0.40	1.58E-15	cited in PubMed
cg07615497	Distal Intergenic	high	1.02	-0.45	4.66E-16	non-leukemia cancer types
cg16851924	Promoter (<=1kb)	high	0.95	-0.01	1.44E-13	non-leukemia cancer types

<b>CpG sites</b>	<b>CpG sites location</b>	<b>status</b>	<b>Ratio</b>	<b>delta beta</b>	<b><i>p-value</i></b>	<b>Bibliographic analysis</b>
cg11140606	Promoter (<=1kb)	low	1.26	0.00	2.23E-15	non-leukemia cancer types
cg02558162	Promoter (1-2kb)	low	1.61	-0.08	9.23E-13	cited in AML
cg09950208	Distal Intergenic	low	0.65	-0.41	2.14E-15	cited in AML
cg00073460	Promoter (<=1kb)	high	0.89	-0.49	4.40E-26	non-leukemia cancer types
cg19384717	Distal Intergenic	low	0.67	-0.04	7.67E-15	cited in AML
cg01987224	Promoter (<=1kb)	low	1.48	-0.07	6.23E-22	non-leukemia cancer types
cg11352369	Promoter (<=1kb)	low	1.27	-0.04	4.88E-15	non-leukemia cancer types
cg12439423	Promoter (<=1kb)	low	0.79	-0.04	4.88E-15	cited in AML
cg01023703	Other Intron	high	0.82	-0.35	6.01E-26	non-leukemia cancer types
cg23222472	Distal Intergenic	high	0.76	-0.16	1.72E-14	never cited
cg04560098	Promoter (<=1kb)	low	0.63	-0.16	1.05E-14	non-leukemia cancer types
cg09633881	Promoter (<=1kb)	high	0.93	-0.24	4.82E-16	cited in AML
cg25919979	Other Intron	low	0.63	-0.06	3.76E-15	cited in AML