

Table 27. Gene order according to the hierarchical clustering of the top-200 genes of the hyperdiploid cases and the normal bone marrows and purified hematopoietic cells

Accession	Gene name	Gene symbol	Entrez gene	Reporter ID	Signature
H59000	Nuclear factor (erythroid-derived 2), 45kDa	<i>NFE2</i>	4778	207794	Mature/CD15
W01926	Membrane-spanning 4-domains, subfamily A, member 6A	<i>MS4A6A</i>	64231	294535	Mature/CD15
W40257	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)	<i>GALNT3</i>	2591	328542	Mature/CD15
AA504303	Multiple cluster hits:435933 & 495960	<i>PHF10 & ATP6AP2</i>	55274 & 10159	825076	Mature/CD15
H10010	Ectonucleoside triphosphate diphosphohydrolase 1	<i>ENTPD1</i>	953	46715	Mature/CD15
AA004975	Development and differentiation enhancing factor 1	<i>DDEF1</i>	50807	428936	Mature/CD15
R02333	UBX domain containing 3	<i>UBXD3</i>	127733	124239	Mature/CD15
N28844	V-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)	<i>MAFG</i>	4097	266037	Mature/CD15
AW029299	Interleukin 17 receptor	<i>IL17R</i>	23765	2543085	Mature/CD15
AW050573	Transient receptor potential cation channel, subfamily M, member 2	<i>TRPM2</i>	7226	2558044	Mature/CD15
AI935172	Oculocerebrorenal syndrome of Lowe	<i>OCRL</i>	4952	2464833	Mature/CD15
BX113710	Multiple cluster hits:509651 & 550321	<i>FNTB & O</i>	2342 & 0	213564	Mature/CD15
H98255	Chromosome 10 open reading frame 46	<i>C10orf46</i>	143384	261274	Mature/CD15
AA064946	Vacuolar protein sorting 26 (yeast)	<i>VPS26</i>	9559	529147	Mature/CD15
AA701368	Carbonic anhydrase VB like	<i>CA5BL</i>	340591	435510	Mature/CD15
BX104021	Synuclein, alpha (non A4 component of amyloid precursor)	<i>SNCA</i>	6622	418328	Mature/CD15
H71229	82-kD FMRP Interacting Protein	<i>182-FIP</i>	57532	214604	Mature/CD15
BX102980	Moesin	<i>MSN</i>	4478	814265	Mature/CD15
R09581	Adaptor-related protein complex 1, sigma 2 subunit	<i>AP1S2</i>	8905	127665	Mature/CD15
AW008840	Nephroblastoma overexpressed gene	<i>NOV</i>	4856	2502789	Mature/CD15
N51740	Ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	<i>ENPP4</i>	22875	281737	
AA782314	Hypothetical protein MGC35440	<i>LOC147991</i>	147991	857574	
AA670359	Rho GTPase activating protein 24	<i>ARHGAP24</i>	83478	878417	
AI523637	Protocadherin 9	<i>PCDH9</i>	5101	2116531	
AA102454	Calpain 2, (m/II) large subunit	<i>CAPN2</i>	824	549728	
AA521439	Synaptotagmin-like 2	<i>SYTL2</i>	54843	826194	
AI380391	Family with sequence similarity 14, member A	<i>FAM14A</i>	83982	2107092	
AA464528	Proteolipid protein 2 (colonic epithelium-enriched)	<i>PLP2</i>	5355	810504	
AA455005	Sorting nexin 9	<i>SNX9</i>	51429	811937	
H23561	Deltex homolog 1 (Drosophila)	<i>DTX1</i>	1840	52120	
R74171	Rap2 interacting protein x	<i>RIPX</i>	22902	143310	
AA455521	Multiple cluster hits:443072 & 445758	<i>0 & E2F5</i>	401466 & 1875	809828	
AA703219	Dedicator of cytokinesis 10	<i>DOCK10</i>	55619	435992	
R78776	Protein tyrosine phosphatase, receptor type, K	<i>PTPRK</i>	5796	146123	
AA885342	Hypothetical protein FLJ10379	<i>FLJ10379</i>	55133	1461767	
AA983573	Elongation factor Tu GTP binding domain containing 1	<i>EFTUD1</i>	79631	1559230	
AA482007	Hypothetical protein FLJ10415	<i>FLJ10415</i>	55139	746007	
AI025113	Polymerase (DNA directed), mu	<i>POLM</i>	27434	1631746	
AA045286	G patch domain containing 1	<i>GPATC1</i>	55094	487921	
AA278393	Multiple cluster hits:145500 & 523529	<i>0 & 0</i>	0 & 440608	712526	
N48804	Forkhead box P1	<i>FOXP1</i>	27086	279482	
AA918089	Ras homolog gene family, member T2	<i>RHOT2</i>	89941	1536013	
AA481100	Adaptor-related protein complex 4, beta 1 subunit	<i>AP4B1</i>	10717	814662	
R20432	Hypothetical protein MGC2752	<i>MGC2752</i>	65996	32794	
N52162	Protein kinase (cAMP-dependent, catalytic) inhibitor alpha	<i>PKIA</i>	5569	284401	
AA482326	Leucine zipper, down-regulated in cancer 1-like	<i>LDOC1L</i>	84247	840884	
W93066	K562 cell-derived leucine-zipper-like protein 1	<i>KLP1</i>	57106	414992	

AA670144	Hypoxia-inducible protein 2	<i>HIG2</i>	29923	845658	
BX109505	B7 gene	<i>B7</i>	10233	302632	
AA906438	Hypothetical protein BC007772	<i>LOC93109</i>	93109	1505998	
AA621510	Zinc finger protein 219	<i>ZNF219</i>	51222	1055297	
AA705153	Hypothetical protein FLJ10357	<i>FLJ10357</i>	55701	461613	
BX111498	WD repeat domain 35	<i>WDR35</i>	57539	287634	
N49204	Acylphosphatase 2, muscle type	<i>ACYP2</i>	98	280252	
AA598639	KIAA1573 protein	<i>KIAA1573</i>	57685	897884	
AA182499	IGF-II mRNA-binding protein 1	<i>IMP-1</i>	10642	613237	
AA489238	Multiple cluster hits:21388 & 460499	<i>ZDHHC21 & ATXN2L</i>	340481 & 11273	825088	
AI678208	Dynein 2 light intermediate chain	<i>D2LIC</i>	51626	2316138	
AA166695	Tumor necrosis factor (ligand) superfamily, member 13b	<i>TNFSF13B</i>	10673	593690	
AA169699	Hypothetical protein FLJ11171	<i>FLJ11171</i>	55783	609910	
AI401528	Hypothetical protein MGC34646	<i>MGC34646</i>	157807	2110073	
AA460463	Cytokine-like protein C17	<i>C17</i>	54360	796569	
BX099263	Prominin 1	<i>PROM1</i>	8842	27544	
R59936	Potassium inwardly-rectifying channel, subfamily J, member 6	<i>KCNJ6</i>	3763	43101	
AA412053	CD9 antigen (p24)	<i>CD9</i>	928	727251	
AA485353	Lectin, galactoside-binding, soluble, 3 binding protein	<i>LGALS3BP</i>	3959	811000	
N68512	Hermansky-Pudlak syndrome 4	<i>HPS4</i>	89781	294089	
AA425612	Solute carrier family 16 (monocarboxylic acid transporters), member 2	<i>SLC16A2</i>	6567	773344	
AA209529	Interferon, alpha-inducible protein 27	<i>IFI27</i>	3429	588915	CD71/GPA
W01240	Membrane protein, palmitoylated 1, 55kDa	<i>MPP1</i>	4354	296880	CD71/GPA
AA496795	Intersectin 1 (SH3 domain protein)	<i>ITSN1</i>	6453	897652	CD71/GPA
H98134	Protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform	<i>PPM1A</i>	5494	261102	CD71/GPA
R89905	Ubiquitin specific protease 9, X-linked (fat facets-like, Drosophila)	<i>USP9X</i>	8239	194706	CD71/GPA
N71286	Tripartite motif-containing 10	<i>TRIM10</i>	10107	294655	CD71/GPA
AA454770	Rab interacting lysosomal protein	<i>RILP</i>	83547	809739	CD71/GPA
AI693616	Class-I MHC-restricted T cell associated molecule	<i>CRTAM</i>	56253	2337808	CD71/GPA
AA626782	Chromosome 18 open reading frame 23	<i>C18orf23</i>	147341	877763	
T46897	Adhesion regulating molecule 1	<i>ADRM1</i>	11047	78869	
AA425938	Legumain	<i>LGMN</i>	5641	760298	
BX093287	SH3 multiple domains 2	<i>SH3MD2</i>	57630	811101	
BX105795	Ephrin-B1	<i>EFNB1</i>	1947	756968	
AA953508	SET binding protein 1	<i>SETBP1</i>	26040	1562231	
AA188661	SH3-domain binding protein 5 (BTK-associated)	<i>SH3BP5</i>	9467	626343	
CR742982	Multiple cluster hits:257761 & 410969	<i>SH3BP5 & NTRK3</i>	9467 & 4916	35356	
AA989257	SH3-domain kinase binding protein 1	<i>SH3KBP1</i>	30011	1604005	Leukemic
R48131	Multiple cluster hits:167679 & 537269	<i>SH3BP2 & 0</i>	6452 & 0	153694	Leukemic
AI948893	SH3-domain binding protein 2	<i>SH3BP2</i>	6452	2471503	Leukemic
AA056375	Hypothetical protein from clone 643	<i>LOC57228</i>	57228	509458	Leukemic
H09456	Target of myb1-like 2 (chicken)	<i>TOMIL2</i>	146691	46278	Leukemic
R52176	Multiple cluster hits:180257 & 407983	<i>ZNF550 & SFMBT2</i>	162972 & 57713	40296	Leukemic
CR744656	Calmodulin regulated spectrin-associated protein 1	<i>CAMSAP1</i>	157922	49228	Leukemic
H09105	Multiple cluster hits:475733 & 547224	<i>TOP2B & 0</i>	7155 & 0	46180	Leukemic
AA663941	LOC387882 hypothetical protein	<i>LOC387882</i>	387882	855707	Leukemic
AA099522	Zinc finger, CW type with coiled-coil domain 2	<i>ZCWC2</i>	79710	489594	Leukemic
AI537061	Sex comb on midleg-like 1 (Drosophila)	<i>SCML1</i>	6322	2184814	Leukemic
AA705772	Collagen, type XXVII, alpha 1	<i>COL27A1</i>	85301	379517	Leukemic
BX103653	Breast cancer membrane protein 101	<i>NSE2</i>	157638	278572	

R67222	Chromosome 6 open reading frame 192	<i>C6orf192</i>	116843	140852	
AA194201	Bradykinin receptor B2	<i>BDKRB2</i>	624	665674	
N49899	Solute carrier family 18 (vesicular monoamine), member 2	<i>SLC18A2</i>	6571	243653	
N73975	Transcription elongation factor A (SII)-like 4	<i>TCEAL4</i>	79921	296616	
AA876375	Leukotriene B4 12-hydroxydehydrogenase	<i>LTB4DH</i>	22949	1493107	
AI245605	D-aspartate oxidase	<i>DDO</i>	8528	1870049	
AA282029	LIM domain only 2 (rhombotin-like 1)	<i>LMO2</i>	4005	712829	
H09375	Cellular repressor of E1A-stimulated genes 2	<i>CREG2</i>	200407	45999	
AA410481	KIAA0934	<i>KIAA0934</i>	22982	754451	
AA630138	Zinc finger protein 185 (LIM domain)	<i>ZNF185</i>	7739	855079	
AW004620	Calcium/calmodulin-dependent protein kinase I	<i>CAMK1</i>	8536	2505310	
AA045399	Hypothetical protein LOC162073	<i>LOC162073</i>	162073	487831	
AA099515	Signal sequence receptor, alpha (translocon-associated protein alpha)	<i>SSRI</i>	6745	510679	
H26485	Chromosome 6 open reading frame 68	<i>C6orf68</i>	116150	161823	
N66942	Progesterone receptor membrane component 1	<i>PGRMC1</i>	10857	295798	
H59757	V-raf murine sarcoma 3611 viral oncogene homolog 1	<i>ARAF1</i>	369	207618	
AA928142	Porcupine homolog (Drosophila)	<i>PORCN</i>	64840	1541827	
H15095	Multiple cluster hits:535978 & 549718	<i>0 & CXorf40</i>	0 & 91966	49249	
AA629796	Sorting nexin 12	<i>SNX12</i>	29934	884540	
AA459420	Hypothetical protein FLJ20699	<i>FLJ20699</i>	55020	810981	
AA047623	Progesterone receptor membrane component 2	<i>PGRMC2</i>	10424	376785	
H85311	Stress 70 protein chaperone, microsome-associated, 60kDa	<i>STCH</i>	6782	222025	
N47922	FLJ10378 protein	<i>FLJ10378</i>	55132	260181	
AI682474	Nuclear transport factor 2-like export factor 2	<i>NXT2</i>	55916	2322396	
AA996131	SH3 domain binding glutamic acid-rich protein like	<i>SH3BGRL</i>	6451	1603583	
AA056693	Phosphatidic acid phosphatase type 2B	<i>PPAP2B</i>	8613	489201	
AA625621	Chromosome 14 open reading frame 131	<i>C14orf131</i>	55778	877822	
AA677340	Phosphorylase kinase, alpha 2 (liver)	<i>PHKA2</i>	5256	454475	
W74254	Linker for activation of T cells	<i>LAT</i>	27040	346360	
AA464059	Coagulation factor VIII-associated (intronic transcript) 1	<i>F8A1</i>	8263	810264	
BX102083	Multiple cluster hits:475970 & 548668	<i>OXSRI & 0</i>	9943 & 0	198690	
AA970720	KIAA0592 protein	<i>KIAA0592</i>	253725	1573087	
N78101	Cyclin I	<i>CCNI</i>	10983	248295	
CR736883	Multiple cluster hits:397638 & 525330	<i>WDR5 & ARF6</i>	11091 & 382	360885	
BX112916	RAB40C, member RAS oncogene family	<i>RAB40C</i>	57799	136303	
AA669443	Eukaryotic translation initiation factor 5	<i>EIF5</i>	1983	884867	
N53133	Spermatid perinuclear RNA binding protein	<i>STRBP</i>	55342	246620	
AA599187	Phosphoglycerate kinase 1	<i>PGK1</i>	5230	949939	
H24099	Cystatin B (stefin B)	<i>CSTB</i>	1476	51814	
BX090714	Pyruvate dehydrogenase kinase, isoenzyme 3	<i>PDK3</i>	5165	278242	
AI983274	ATPase, H+ transporting, lysosomal accessory protein 2	<i>ATP6AP2</i>	10159	2517344	
AA630373	Chromosome 10 open reading frame 56	<i>C10orf56</i>	219654	854897	
AI299482	Hairy/enhancer-of-split related with YRPW motif 2	<i>HEY2</i>	23493	1895748	
AI871665	Acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	<i>ACAT1</i>	38	2292807	
CR737717	Multiple cluster hits:13318 & 503666	<i>DISC1 & GPKOW</i>	27185 & 27238	26910	CD71/GPA
R62411	Chromosome 6 open reading frame 89	<i>C6orf89</i>	221477	152515	CD71/GPA
N77107	Multiple cluster hits:260555 & 293970	<i>C14orf45 & ALDH6A1</i>	80127 & 4329	289818	CD71/GPA
H15504	Annexin A7	<i>ANXA7</i>	310	49352	CD71/GPA
R92281	Cytochrome B 5	<i>CYB5</i>	1528	196189	CD71/GPA
AA599127	Superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))	<i>SOD1</i>	6647	950489	CD71/GPA

N47483	Glutathione S-transferase A4	<i>GSTA4</i>	2941	280769	
AI298194	Zinc finger protein 318	<i>ZNF318</i>	24149	1896746	
BX108537	Multiple cluster hits:2815 & 369761	<i>POU6F1 & DAZAP2</i>	5463 & 9802	289447	
AA464965	Hypothetical protein DT1P1A10	<i>DT1P1A10</i>	90121	810093	
AA029331	LCHN protein	<i>LCHN</i>	57189	366763	
AW074953	Chromosome 21 open reading frame 2	<i>C21orf2</i>	755	2572207	
AI349234	Family with sequence similarity 26, member B	<i>FAM26B</i>	51063	2049813	
AA278240	Haloacid dehalogenase-like hydrolase domain containing 1A	<i>HDHD1A</i>	8226	703479	Leukemic
AI001010	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 7	<i>ADAMTS7</i>	11173	1609975	Leukemic
AA126799	Glycosyltransferase 28 domain containing 1	<i>GLT28D1</i>	55849	490548	Leukemic
AA070661	S100 calcium binding protein A13	<i>S100A13</i>	6284	530035	Leukemic
H02929	Ring finger protein 153	<i>RNF153</i>	54708	151755	Leukemic
N22323	Mst3 and SOK1-related kinase	<i>MST4</i>	51765	254029	Leukemic
AI393281	KIAA1217	<i>KIAA1217</i>	56243	2108778	Leukemic
AA465717	WD repeat domain 9	<i>WDR9</i>	54014	814975	Leukemic
BX092901	Hypothetical LOC402582	<i>0</i>	402582	133860	Leukemic
AA670134	Tetratricopeptide repeat domain 3	<i>TTC3</i>	7267	844725	Leukemic
AA679345	Heterogeneous nuclear ribonucleoprotein H2 (H')	<i>HNRPH2</i>	3188	866874	Leukemic
R43580	Ubiquilin 2	<i>UBQLN2</i>	29978	23018	Leukemic
AA167328	Implantation-associated protein	<i>DKFZp564K142</i>	84061	595620	Leukemic
BX108643	Cyclin C	<i>CCNC</i>	892	789318	Leukemic
W55967	MAP3K12 binding inhibitory protein 1	<i>MBIP</i>	51562	340555	Leukemic
AA488237	Hypothetical protein MGC23937 similar to CG4798	<i>MGC23937</i>	139596	877637	Leukemic
R25001	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6	<i>SLC9A6</i>	10479	20115	Leukemic
AA251026	Transmembrane protein 32	<i>TMEM32</i>	93380	684539	Leukemic
H61901	Ribosomal protein S6 kinase, 90kDa, polypeptide 3	<i>RPS6KA3</i>	6197	204148	Leukemic
AW051907	KIAA0179	<i>KIAA0179</i>	23076	2557117	Leukemic
BX116655	Follicular lymphoma variant translocation 1	<i>FVT1</i>	2531	233765	Leukemic
H20774	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	<i>SMARCA4</i>	6597	173169	Leukemic
AW005979	Interleukin-1 receptor-associated kinase 1	<i>IRAK1</i>	3654	2566158	Leukemic
AA706929	Protein phosphatase 1F (PP2C domain containing)	<i>PPM1F</i>	9647	451855	Leukemic
AA482594	Kelch-like 5 (Drosophila)	<i>KLHL5</i>	51088	746080	Leukemic
R35848	Membrane-bound transcription factor protease, site 2	<i>MBTPS2</i>	51360	38450	Leukemic
AA281733	Multiple cluster hits:522590 & 535251	<i>EIFIAX & 0</i>	1964 & 0	712436	Leukemic
AA630381	Chromosome 14 open reading frame 147	<i>C14orf147</i>	171546	855345	Leukemic
N62311	Myozenin 3	<i>MYOZ3</i>	91977	287791	CD34/immature
AA459663	Peroxiredoxin 4	<i>PRDX4</i>	10549	795543	CD34/immature
AA486239	Filamin B, beta (actin binding protein 278)	<i>FLNB</i>	2317	840818	CD34/immature
AA491107	Multiple cluster hits:449098 & 549611	<i>KIAA0685 & 0</i>	9701 & 0	824557	CD34/immature
AA491271	Hypothetical protein FLJ12525	<i>FLJ12525</i>	81887	824622	CD34/immature
AA054701	Non-POU domain containing, octamer-binding	<i>NONO</i>	4841	509887	CD34/immature
BX099233	Down syndrome critical region gene 5	<i>DSCR5</i>	51227	785642	CD34/immature
AA429946	Dehydrogenase/reductase (SDR family) member 4	<i>DHRS4</i>	10901	781295	CD34/immature
N48017	CDNA clone IMAGE:4686928, partial cds	<i>IMAGE:4686928</i>	0	272049	Leukemic
AA451969	Transcription elongation factor A (SII)-like 1	<i>TCEAL1</i>	9338	786607	Leukemic
AA872379	SMT3 suppressor of mif two 3 homolog 3 (yeast)	<i>SUMO3</i>	6612	1472719	Leukemic
AA995351	Retinoblastoma binding protein 7	<i>RBBP7</i>	5931	1601546	Leukemic
AA151486	Phosphoribosyl pyrophosphate synthetase 2	<i>PRPS2</i>	5634	503097	Leukemic
AA456444	Hypothetical protein FLJ31978	<i>FLJ31978</i>	144423	809504	Leukemic
AA446730	Upstream regulatory element binding protein 1	<i>UREB1</i>	10075	783681	Leukemic

H94063	Chromosome 13 open reading frame 1	<i>C13orf1</i>	57213	242840	Leukemic
R77104	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	<i>PSMD10</i>	5716	143997	Leukemic
AA029842	Mature T cell proliferation 1	<i>MTCP1</i>	4515	470175	Leukemic
