

**Table 34. Genes used for supervised classification of genetic subtype in B lineage ALL**

Accession no.	Gene name	Gene symbol	Entrez gene	Reporter ID	No. of times used for classification	Class
R78776	Protein tyrosine phosphatase, receptor type, K	<i>PTPRK</i>	5796	146123	55	ETV6RUNX1
R28188	Transcribed locus	<i>0</i>	0	134658	55	TCF3PBX1
AA621510	Zinc finger protein 219	<i>ZNF219</i>	51222	1055297	55	Hyperdiploid
H59805	IGF-II mRNA-binding protein 1	<i>IMP-1</i>	10642	208078	55	ETV6RUNX1
AA401304	Pre-B cell leukemia transcription factor 1	<i>PBX1</i>	5087	741880	55	TCF3PBX1
H23561	Deltex homolog 1 (Drosophila)	<i>DTX1</i>	1840	52120	54	Hyperdiploid
AA188661	SH3-domain binding protein 5 (BTK-associated)	<i>SH3BP5</i>	9467	626343	53	Hyperdiploid
H23443	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A1	<i>FAM19A1</i>	407738	51993	52	ETV6RUNX1
AA007619	Multiple cluster hits:196177 & 445097	<i>PHKG2 &amp; SRCAP</i>	5261 & 10847	429446	52	TCF3PBX1
R98407	Pre-B cell leukemia transcription factor 1	<i>PBX1</i>	5087	200656	52	TCF3PBX1
R67222	Chromosome 6 open reading frame 192	<i>C6orf192</i>	116843	140852	52	Hyperdiploid
AA460143	Glucosamine-6-phosphate deaminase 1	<i>GNPDA1</i>	10007	795882	52	ETV6RUNX1
AA464528	Proteolipid protein 2 (colonic epithelium-enriched)	<i>PLP2</i>	5355	810504	52	Hyperdiploid
A1364369	Pre-B cell leukemia transcription factor 1	<i>PBX1</i>	5087	2018074	52	TCF3PBX1
R67704	Neuritin 1	<i>NRN1</i>	51299	140197	52	ETV6RUNX1
R67704	Neuritin 1	<i>NRN1</i>	51299	140197	52	Hyperdiploid
AA989257	SH3-domain kinase binding protein 1	<i>SH3KBP1</i>	30011	1604005	52	Hyperdiploid
AA705153	Hypothetical protein FLJ10357	<i>FLJ10357</i>	55701	461613	52	Hyperdiploid
N51740	Ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	<i>ENPP4</i>	22875	281737	52	ETV6RUNX1
AA496796	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	897656	52	ETV6RUNX1
A1698719	Myeloid/lymphoid or mixed-lineage leukemia 2 Adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)	<i>MLL2</i>	8085	2302544	51	TCF3PBX1
AA489331	Formin homology 2 domain containing 3	<i>ADARB1</i>	104	842939	51	TCF3PBX1
H22559	Formin homology 2 domain containing 3	<i>FHOD3</i>	80206	51807	51	TCF3PBX1
AA459589	Tumor protein p53 inducible nuclear protein 1	<i>TP53INP1</i>	94241	814528	51	ETV6RUNX1
AA394127	Nuclear factor of activated T cells, cytoplasmic, calcineurin-dependent 4	<i>NFATC4</i>	4776	725649	51	TCF3PBX1
AA490494	Tumor necrosis factor receptor superfamily, member 21	<i>TNFRSF21</i>	27242	823902	51	ETV6RUNX1
BX101090	Bone morphogenetic protein 2	<i>BMP2</i>	650	359610	51	TCF3PBX1
CR742982	257761 & 410969	<i>SH3BP5 &amp; NTRK3</i>	9467 & 4916	35356	49	Hyperdiploid
AA496796	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	897656	48	Hyperdiploid
BX114269	Chromodomain helicase DNA binding protein 2	<i>CHD2</i>	1106	137211	45	ETV6RUNX1
BX113274	CDNA: FLJ22994 fis, clone KAT11918	<i>0</i>	0	823853	44	Hyperdiploid
AA482326	Leucine zipper, down-regulated in cancer 1-like	<i>LDOC1L</i>	84247	840884	44	Hyperdiploid
N49774	KIAA1671 protein	<i>KIAA1671</i>	85379	282404	43	ETV6RUNX1
H18864	Notch homolog 1, translocation-associated (Drosophila)	<i>NOTCH1</i>	4851	51275	43	ETV6RUNX1
AA287218	Glycoprotein M6B	<i>GPM6B</i>	2824	713660	43	ETV6RUNX1
AA706929	Protein phosphatase 1F (PP2C domain containing)	<i>PPM1F</i>	9647	451855	42	Hyperdiploid
AA151486	Phosphoribosyl pyrophosphate synthetase 2	<i>PRPS2</i>	5634	503097	42	ETV6RUNX1
AA150060	409081 & 534399	<i>KMO &amp; OPN3</i>	8564 & 23596	504461	41	TCF3PBX1
AA045399	Hypothetical protein LOC162073	<i>LOC162073</i>	162073	487831	41	Hyperdiploid
BX099314	Chemokine-like factor super family 7	<i>CKLFSF7</i>	112616	810002	41	TCF3PBX1
N63057	Protocadherin 9	<i>PCDH9</i>	5101	284714	41	Hyperdiploid
BX094146	Elongation factor RNA polymerase II-like 3	<i>ELL3</i>	80237	795427	41	ETV6RUNX1
A1871665	Acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	<i>ACAT1</i>	38	2292807	41	Hyperdiploid
AA043083	SH3-domain kinase binding protein 1	<i>SH3KBP1</i>	30011	486036	41	Hyperdiploid
R02269	D4, zinc and double PHD fingers, family 3	<i>DPF3</i>	8110	124530	41	ETV6RUNX1

AA976212	Myeloid-associated differentiation marker	<i>MYADM</i>	91663	1567676	41	ETV6RUNX1
W02963	Fe receptor-like and mucin-like 1	<i>FREB</i>	84824	291871	41	TCF3PBX1
T53169	KIAA2002 protein	<i>KIAA2002</i>	79834	68534	41	TCF3PBX1
BX109808	Calneuron 1	<i>CALN1</i>	83698	27916	41	ETV6RUNX1
AA428394	HtrA serine peptidase 3	<i>HTRA3</i>	94031	773558	41	TCF3PBX1
AA999901	Guanine nucleotide binding protein (G protein), gamma 11	<i>GNG11</i>	2791	1636447	41	ETV6RUNX1
AA504431	Phosphatidylinositol 3,4,5-trisphosphate-dependent RAC exchanger 1	<i>PREX1</i>	57580	825270	41	TCF3PBX1
AA486239	Filamin B, beta (actin binding protein 278)	<i>FLNB</i>	2317	840818	41	Hyperdiploid
AA825491	Interferon regulatory factor 4	<i>IRF4</i>	3662	1358229	41	TCF3PBX1
AA197344	Phosphoribosyl pyrophosphate synthetase 2	<i>PRPS2</i>	5634	627688	41	ETV6RUNX1
N58609	Chemokine orphan receptor 1	<i>CMKOR1</i>	57007	246786	40	TCF3PBX1
AA946776	Fibroblast growth factor 9 (glia-activating factor)	<i>FGF9</i>	2254	1589786	40	TCF3PBX1
AA621510	Zinc finger protein 219	<i>ZNF219</i>	51222	1055297	40	ETV6RUNX1
AA426027	Sorting nexin 3	<i>SNX3</i>	8724	757225	40	TCF3PBX1
AA504303	435933 & 495960	<i>PHF10 &amp; ATP6AP2</i>	55274 & 10159	825076	40	Hyperdiploid
AA704802	Neuroigin 2	<i>NLGN2</i>	57555	452466	40	ETV6RUNX1
AA056375	Hypothetical protein from clone 643	<i>LOC57228</i>	57228	509458	40	TCF3PBX1
AA428001	Tyrosine kinase, non-receptor, 2	<i>TNK2</i>	10188	773478	39	TCF3PBX1
AA009593	Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	<i>MPP7</i>	143098	365517	39	TCF3PBX1
AA917731	RAB3A interacting protein (rabin3)	<i>RAB3IP</i>	117177	1527297	38	Hyperdiploid
H98981	Myeloid-associated differentiation marker	<i>MYADM</i>	91663	261444	38	ETV6RUNX1
AA453028	Stromal antigen 3	<i>MGC2463</i>	79037	788355	38	TCF3PBX1
AA425618	Immunoglobulin superfamily, member 3	<i>IGSF3</i>	3321	773335	38	TCF3PBX1
AI983274	ATPase, H <sup>+</sup> transporting, lysosomal accessory protein 2	<i>ATP6AP2</i>	10159	2517344	37	Hyperdiploid
AA906438	Transmembrane protein 44	<i>LOC93109</i>	93109	1505998	37	Hyperdiploid
H09164	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	46411	37	ETV6RUNX1
AI969458	Ribosomal protein S6 kinase, 90kDa, polypeptide 3	<i>RPS6KA3</i>	6197	2563099	36	Hyperdiploid
AI245605	D-aspartate oxidase	<i>DDO</i>	8528	1870049	36	Hyperdiploid
R05810	Splicing factor, arginine/serine-rich 4	<i>SFRS4</i>	6429	125311	36	ETV6RUNX1
H15115	Kazrin	<i>KIAA1026</i>	23254	49569	35	Hyperdiploid
H48661	Glucosamine-6-phosphate deaminase 1	<i>GNPDA1</i>	10007	207082	34	ETV6RUNX1
BX099233	Down syndrome critical region gene 5	<i>DSCR5</i>	51227	785642	33	Hyperdiploid
AA410567	Interferon-induced protein 44-like	<i>IFI44L</i>	10964	754479	32	TCF3PBX1
BX100679	FYN binding protein (FYB 120/130)	<i>FYB</i>	2533	293325	32	ETV6RUNX1
R02269	D4, zinc and double PHD fingers, family 3	<i>DPF3</i>	8110	124530	30	Hyperdiploid
R89905	Ubiquitin specific protease 9, X-linked (fat facets-like, Drosophila)	<i>USP9X</i>	8239	194706	30	Hyperdiploid
AA278240	Haloacid dehalogenase-like hydrolase domain containing 1A	<i>HDHD1A</i>	8226	703479	30	Hyperdiploid
AA670359	Rho GTPase activating protein 24	<i>ARHGAP24</i>	83478	878417	30	ETV6RUNX1
AA521439	Synaptotagmin-like 2	<i>SYTL2</i>	54843	826194	30	ETV6RUNX1
BX116983	CD1C antigen, c polypeptide	<i>CD1C</i>	911	428103	29	Hyperdiploid
AA701976	Inositol 1,4,5-triphosphate receptor, type 3	<i>ITPR3</i>	3710	435953	29	Hyperdiploid
AA454756	SH3-binding domain kinase 1	<i>SBK1</i>	388228	809789	29	Hyperdiploid
AI948893	SH3-domain binding protein 2	<i>SH3BP2</i>	6452	2471503	29	Hyperdiploid
AI349234	Family with sequence similarity 26, member B	<i>FAM26B</i>	51063	2049813	29	Hyperdiploid
AI362933	Death-associated protein kinase 2	<i>DAPK2</i>	23604	2018423	29	ETV6RUNX1
AA928142	Porcupine homolog (Drosophila)	<i>PORCN</i>	64840	1541827	29	Hyperdiploid
AA426237	Ubiquitin specific protease 9, X-linked (fat facets-like, Drosophila)	<i>USP9X</i>	8239	760231	29	Hyperdiploid
AA447746	DNA-damage-inducible transcript 4	<i>DDIT4</i>	54541	813645	29	Hyperdiploid

AA406353	Programmed cell death 6	<i>PDCD6</i>	10016	753193	29	TCF3PBX1
AA412053	CD9 antigen (p24)	<i>CD9</i>	928	727251	29	ETV6RUNX1
AA669443	Eukaryotic translation initiation factor 5	<i>EIF5</i>	1983	884867	28	Hyperdiploid
T66109	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3	<i>CBFA2T3</i>	863	21684	28	ETV6RUNX1
N23340	Hypothetical protein LOC152485	<i>LOC152485</i>	152485	267186	28	ETV6RUNX1
AA099236	Myeloid-associated differentiation marker	<i>MYADM</i>	91663	489495	28	ETV6RUNX1
BX096523	Uronyl-2-sulfotransferase	<i>UST</i>	10090	505335	28	TCF3PBX1
AA131530	A kinase (PRKA) anchor protein 14	<i>AKAP14</i>	158798	503725	28	ETV6RUNX1
BX113672	Similar to BMP2 inducible kinase	<i>0</i>	388957	243524	28	ETV6RUNX1
AI611956	Immunoglobulin lambda-like polypeptide 1	<i>IGLL1</i>	3543	2245295	28	TCF3PBX1
AI652019	MAD2 mitotic arrest deficienT like 2 (yeast)	<i>MAD2L2</i>	10459	2306860	28	TCF3PBX1
AA677662	Hypothetical protein MGC35440	<i>LOC147991</i>	147991	460440	28	Hyperdiploid
AI628353	KIAA0882 protein	<i>KIAA0882</i>	23158	2284924	28	TCF3PBX1
W04283	132340 & 389724	<i>C6orf85 &amp; IF144L</i>	63027 & 10964	295939	28	TCF3PBX1
T53169	KIAA2002 protein	<i>KIAA2002</i>	79834	68534	28	ETV6RUNX1
AA699589	Myeloid-associated differentiation marker	<i>MYADM</i>	91663	433491	28	ETV6RUNX1
AA629903	Hypothetical protein LOC143458	<i>LOC143458</i>	143458	884662	28	TCF3PBX1
R45256	D4, zinc and double PHD fingers, family 3	<i>DPF3</i>	8110	23025	28	ETV6RUNX1
AA708152	Transmembrane emp24 protein transport domain containing 6	<i>TMED6</i>	146456	460798	28	TCF3PBX1
AA486239	Filamin B, beta (actin binding protein 278)	<i>FLNB</i>	2317	840818	28	ETV6RUNX1
AA782314	Hypothetical protein MGC35440	<i>LOC147991</i>	147991	857574	28	ETV6RUNX1
AA663941	LOC387882 hypothetical protein	<i>LOC387882</i>	387882	855707	28	ETV6RUNX1
AA504303	435933 & 495960	<i>PHF10 &amp; ATP6AP2</i>	55274 & 10159	825076	28	TCF3PBX1
AA459909	6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1)	<i>PCBD</i>	5092	809421	28	TCF3PBX1
AA447661	Sestrin 1	<i>SESN1</i>	27244	813584	28	TCF3PBX1
AA489290	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	842918	28	ETV6RUNX1
H09164	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	46411	28	Hyperdiploid
N95435	Putative G protein coupled receptor	<i>GPR</i>	11245	309929	27	TCF3PBX1
AI401528	Hypothetical protein MGC34646	<i>MGC34646</i>	157807	2110073	27	Hyperdiploid
AI985408	Solute carrier family 27 (fatty acid transporter), member 2	<i>SLC27A2</i>	11001	2496336	27	TCF3PBX1
AI015577	Homolog of yeast INO80	<i>INO80</i>	54617	1636837	27	TCF3PBX1
N21334	Abl interactor 2	<i>ABI2</i>	10152	265102	27	TCF3PBX1
AA035450	Inositol 1,4,5-triphosphate receptor, type 1	<i>ITPR1</i>	3708	471725	27	ETV6RUNX1
T91261	Mannosidase, alpha, class 1A, member 1	<i>MAN1A1</i>	4121	112629	27	TCF3PBX1
H12043	Cytoplasmic FMR1 interacting protein 2	<i>CYFIP2</i>	26999	47475	26	TCF3PBX1
H61901	Ribosomal protein S6 kinase, 90kDa, polypeptide 3	<i>RPS6KA3</i>	6197	204148	26	Hyperdiploid
AA490684	AE binding protein 1	<i>AEBP1</i>	165	823851	26	TCF3PBX1
AA131701	Sperm autoantigenic protein 17	<i>SPA17</i>	53340	503866	26	TCF3PBX1
AA866153	Ceroid-lipofuscinosis, neuronal 6, late infantile, variant	<i>CLN6</i>	54982	1469434	26	TCF3PBX1
BX100923	Cadherin 4, type 1, R-cadherin (retinal)	<i>CDH4</i>	1002	32777	26	ETV6RUNX1
AA887201	Chromosome 13 open reading frame 1	<i>C13orf1</i>	57213	1501998	26	Hyperdiploid
BX103225	149156 & 547053	<i>GLDC &amp; 0</i>	2731 & 0	248261	26	TCF3PBX1
R48131	167679 & 434946	<i>SH3BP2 &amp; 0</i>	6452 & 0	153694	25	Hyperdiploid
R78776	Protein tyrosine phosphatase, receptor type, K	<i>PTPRK</i>	5796	146123	24	Hyperdiploid
AA936138	BH3 interacting domain death agonist	<i>BID</i>	637	1551267	24	Hyperdiploid
R20270	MGC4170 protein	<i>MGC4170</i>	79158	32801	24	ETV6RUNX1
N50428	Hypothetical protein FLJ30046	<i>FLJ30046</i>	122060	280640	24	TCF3PBX1
AA046565	Synaptotagmin-like 2	<i>SYTL2</i>	54843	487932	23	ETV6RUNX1

AA458653	Tribbles homolog 2 (Drosophila)	<i>TRIB2</i>	28951	813426	22	TCF3PBX1
AA670134	Tetratricopeptide repeat domain 3	<i>TTC3</i>	7267	844725	22	Hyperdiploid
R88680	Hypothetical protein MGC10485	<i>MGC10485</i>	112936	166530	21	TCF3PBX1
BX118964	Regulating synaptic membrane exocytosis 3	<i>RIMS3</i>	9783	175846	21	TCF3PBX1
BX116655	Follicular lymphoma variant translocation 1	<i>FVT1</i>	2531	233765	20	Hyperdiploid
R74255	Rap2 interacting protein x	<i>RIPX</i>	22902	143310	19	ETV6RUNX1
AI523637	Protocadherin 9	<i>PCDH9</i>	5101	2116531	19	Hyperdiploid
N62936	Transcribed locus	<i>0</i>	0	278729	18	Hyperdiploid
N30348	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	<i>FLT1</i>	2321	258101	18	Hyperdiploid
N21461	Myosin X	<i>MYO10</i>	4651	265840	17	ETV6RUNX1
AI682474	Nuclear transport factor 2-like export factor 2	<i>NXT2</i>	55916	2322396	17	Hyperdiploid
R33401	SAM domain, SH3 domain and nuclear localisation signals, 1	<i>SAMSN1</i>	64092	136169	17	ETV6RUNX1
BX092408	S100 calcium binding protein A13	<i>S100A13</i>	6284	325513	17	Hyperdiploid
W72201	SMAD, mothers against DPP homolog 3 (Drosophila)	<i>SMAD3</i>	4088	345935	16	ETV6RUNX1
AI349234	Family with sequence similarity 26, member B	<i>FAM26B</i>	51063	2049813	16	ETV6RUNX1
BX099263	Prominin 1	<i>PROM1</i>	8842	27544	16	Hyperdiploid
AI808234	Zinc finger protein 177	<i>ZNF177</i>	7730	2363207	15	ETV6RUNX1
W52208	Coactosin-like 1 (Dictyostelium)	<i>COTL1</i>	23406	325370	15	ETV6RUNX1
N68512	Hermansky-Pudlak syndrome 4	<i>HPS4</i>	89781	294089	15	Hyperdiploid
AA479102	Protein kinase C, beta 1	<i>PRKCB1</i>	5579	753923	15	ETV6RUNX1
AA167328	Implantation-associated protein	<i>DKFZp564K142</i>	84061	595620	15	Hyperdiploid
AA461274	Transcribed locus, weakly similar to XP_209041.2 PREDICTED: similar to KIAA1503 protein [Homo sapiens]	<i>0</i>	0	796127	15	ETV6RUNX1
R23083	Moesin	<i>MSN</i>	4478	131362	14	Hyperdiploid
AA670144	Hypoxia-inducible protein 2	<i>HIG2</i>	29923	845658	14	Hyperdiploid
AA630138	Zinc finger protein 185 (LIM domain)	<i>ZNF185</i>	7739	855079	14	Hyperdiploid
AA151486	Phosphoribosyl pyrophosphate synthetase 2	<i>PRPS2</i>	5634	503097	14	Hyperdiploid
H95960	Secreted protein, acidic, cysteine-rich (osteonectin)	<i>SPARC</i>	6678	250654	13	ETV6RUNX1
N23340	Hypothetical protein LOC152485	<i>LOC152485</i>	152485	267186	13	Hyperdiploid
N98665	FYN oncogene related to SRC, FGR, YES	<i>FYN</i>	2534	278501	13	Hyperdiploid
AI871665	Acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)	<i>ACAT1</i>	38	2292807	13	ETV6RUNX1
AI811492	Anti-Mullerian hormone	<i>AMH</i>	268	2262455	13	TCF3PBX1
T51359	G protein-coupled receptor kinase 5	<i>GRK5</i>	2869	70120	13	ETV6RUNX1
AA680132	Sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)	<i>SMPD2</i>	6610	433170	13	ETV6RUNX1
AA292215	Zinc finger and BTB domain containing 34	<i>ZBTB34</i>	403341	725745	13	ETV6RUNX1
R59936	Potassium inwardly-rectifying channel, subfamily J, member 6	<i>KCNJ6</i>	3763	43101	13	Hyperdiploid
H85272	Rab9 effector protein with kelch motifs	<i>RAB9P40</i>	10244	249606	12	TCF3PBX1
BX111856	Phytanoyl-CoA hydroxylase (Refsum disease)	<i>PHYH</i>	5264	293104	12	Hyperdiploid
W05762	Chromosome 14 open reading frame 147	<i>C14orf147</i>	171546	299664	12	ETV6RUNX1
N43826	FYN oncogene related to SRC, FGR, YES	<i>FYN</i>	2534	271683	12	Hyperdiploid
R28004	515259 & 546511	<i>SSBP4 &amp; DISP2</i>	170463 & 85455	133930	12	TCF3PBX1
T85999	Mastermind-like 2 (Drosophila)	<i>MAML2</i>	84441	112456	12	TCF3PBX1
AA458509	Hypothetical LOC388134	<i>0</i>	388134	811562	12	TCF3PBX1
H16256	Hypothetical protein FLJ20397	<i>FLJ20397</i>	54919	47647	12	TCF3PBX1
W24806	Myosin IB	<i>MYO1B</i>	4430	308231	12	TCF3PBX1
AI950935	Tumor protein p53 binding protein, 1	<i>TP53BP1</i>	7158	2548134	12	Hyperdiploid
AW006793	Peroxiredoxin 2	<i>PRDX2</i>	7001	2506776	12	TCF3PBX1
BX106334	Melan-A	<i>MLANA</i>	2315	269124	12	ETV6RUNX1
AA460143	Glucosamine-6-phosphate deaminase 1	<i>GNPDA1</i>	10007	795882	12	Hyperdiploid

AA677662	Hypothetical protein MGC35440	<i>LOC147991</i>	147991	460440	12	ETV6RUNX1
R08679	Abhydrolase domain containing 6	<i>ABHD6</i>	57406	127447	12	ETV6RUNX1
R35848	Membrane-bound transcription factor protease, site 2	<i>MBTPS2</i>	51360	38450	12	Hyperdiploid
AA664237	Synaptopodin	<i>SYNPO</i>	11346	855610	12	TCF3PBX1
AA465258	Non-SMC element 1 homolog ( <i>S. cerevisiae</i> )	<i>NSMCE1</i>	197370	815017	12	TCF3PBX1
N59295	Chromosome 12 open reading frame 2	<i>C12orf2</i>	11228	289794	12	ETV6RUNX1
N53376	Phosphoinositide-3-kinase, regulatory subunit 5, p101	<i>PIK3R5</i>	23533	284004	12	TCF3PBX1
N48017	Hypothetical protein LOC550643	<i>0</i>	550643	272049	12	Hyperdiploid
CR736732	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	<i>PFKFB2</i>	5208	325526	12	ETV6RUNX1
AA197344	Phosphoribosyl pyrophosphate synthetase 2	<i>PRPS2</i>	5634	627688	12	Hyperdiploid
AA430546	KIAA0056 protein	<i>KIAA0056</i>	23310	770066	11	TCF3PBX1
H09913	Cytoplasmic FMR1 interacting protein 2	<i>CYFIP2</i>	26999	46896	11	TCF3PBX1
W75938	Cathepsin L-like 3	<i>CTSL</i>	1514	345538	11	TCF3PBX1
AA455521	443072 & 445758	<i>0 &amp; E2F5</i>	401466 & 1875	809828	11	Hyperdiploid
AA147452	Pituitary tumor-transforming 1 interacting protein	<i>PTTG1IP</i>	754	505491	11	Hyperdiploid
AA664004	Tripeptidyl peptidase I	<i>TPP1</i>	1200	855385	11	TCF3PBX1
N63968	369761 & 555886	<i>DAZAP2 &amp; POU6F1</i>	9802 & 5463	289447	11	Hyperdiploid
H95960	Secreted protein, acidic, cysteine-rich (osteonectin) Similar to Sorbitol dehydrogenase (L-itol 2-dehydrogenase)	<i>SPARC</i>	6678	250654	11	Hyperdiploid
AA700604	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	<i>0</i>	116166	433350	11	ETV6RUNX1
H20774	Transcribed locus, weakly similar to XP_496299.1 PREDICTED: hypothetical protein LOC148206 [Homo sapiens]	<i>SMARCA4</i>	6597	173169	11	Hyperdiploid
AA152303	Hypothetical protein LOC162073	<i>0</i>	0	491237	11	ETV6RUNX1
AA045399	Hypothetical protein LOC162073	<i>LOC162073</i>	162073	487831	11	ETV6RUNX1
N66008	Tumor suppressor candidate 3	<i>TUSC3</i>	7991	293859	11	ETV6RUNX1
R26176	Signal transducer and activator of transcription 5B	<i>STAT5B</i>	6777	132857	11	TCF3PBX1
R93279	415117 & 557045	<i>SIAT9 &amp; 0</i>	8869 & 0	275798	11	TCF3PBX1
T97800	SH3 and multiple ankyrin repeat domains 3	<i>SHANK3</i>	85358	121540	11	TCF3PBX1
BX113579	Zinc finger protein 516	<i>ZNF516</i>	9658	341317	11	TCF3PBX1
N32396	FYN oncogene related to SRC, FGR, YES	<i>FYN</i>	2534	267431	11	Hyperdiploid
AA024656	Catenin (cadherin-associated protein), delta 1	<i>CTNND1</i>	1500	364921	11	ETV6RUNX1
R10138	33446 & 146668	<i>NR5A2 &amp; TDE2</i>	2494 & 57515	128457	11	TCF3PBX1
AW074999	Fc fragment of IgG, receptor, transporter, alpha	<i>FCGR1</i>	2217	2572285	11	TCF3PBX1
AW057930	Unc-13 homolog B ( <i>C. elegans</i> )	<i>UNC13B</i>	10497	2541460	11	Hyperdiploid
AI985214	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	<i>TFPI</i>	7035	2495781	11	ETV6RUNX1
AI948737	V-ras simian leukemia viral oncogene homolog B (ras related; GTP binding protein)	<i>RALB</i>	5899	2472305	11	TCF3PBX1
R67222	Chromosome 6 open reading frame 192	<i>C6orf192</i>	116843	140852	11	ETV6RUNX1
AA887320	SH3 multiple domains 1	<i>SH3MD1</i>	9644	1500815	11	TCF3PBX1
AA975768	Epithelial membrane protein 1	<i>EMP1</i>	2012	1589468	11	Hyperdiploid
AA449133	CTP synthase	<i>CTPS</i>	1503	785389	11	TCF3PBX1
AA053865	Tribbles homolog 2 ( <i>Drosophila</i> )	<i>TRIB2</i>	28951	380462	11	TCF3PBX1
AI017283	Angiotensin like 1	<i>AMOTL1</i>	154810	1638584	11	TCF3PBX1
AI001010	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 7	<i>ADAMTS7</i>	11173	1609975	11	ETV6RUNX1
AA935533	E2F transcription factor 6	<i>E2F6</i>	1876	1557277	11	ETV6RUNX1
AA917731	RAB3A interacting protein (rabin3)	<i>RAB3IP</i>	117177	1527297	11	ETV6RUNX1
BX105103	Leucine rich repeat containing 28	<i>LRRC28</i>	123355	198694	11	TCF3PBX1
R23083	Moesin	<i>MSN</i>	4478	131362	11	TCF3PBX1
AA044579	Kynurenine 3-monoxygenase (kynurenine 3-hydroxylase)	<i>KMO</i>	8564	486710	11	TCF3PBX1
R08679	Abhydrolase domain containing 6	<i>ABHD6</i>	57406	127447	11	Hyperdiploid

T75249	Haloacid dehalogenase-like hydrolase domain containing 1A	<i>HDHD1A</i>	8226	22893	11	Hyperdiploid
T85958	Glutamate dehydrogenase 1	<i>GLUD1</i>	2746	112785	11	Hyperdiploid
BX103040	A kinase (PRKA) anchor protein (gravin) 12	<i>AKAP12</i>	9590	784772	11	Hyperdiploid
H68845	Peroxiredoxin 2	<i>PRDX2</i>	7001	212165	11	TCF3PBX1
H96235	V-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	<i>ETS2</i>	2114	260303	11	TCF3PBX1
AA887201	Chromosome 13 open reading frame 1	<i>C13orf1</i>	57213	1501998	11	ETV6RUNX1
AA059378	Guanylate cyclase activator 1A (retina)	<i>GUCA1A</i>	2978	381866	11	TCF3PBX1
AA491107	KIAA0685	<i>KIAA0685</i>	9701	824557	11	ETV6RUNX1
AA491107	KIAA0685	<i>KIAA0685</i>	9701	824557	11	Hyperdiploid
AA663941	LOC387882 hypothetical protein	<i>LOC387882</i>	387882	855707	11	Hyperdiploid
AA496795	Intersectin 1 (SH3 domain protein)	<i>ITSN1</i>	6453	897652	11	Hyperdiploid
BX090399	Chromobox homolog 5 (HP1 alpha homolog, Drosophila)	<i>CBX5</i>	23468	452483	11	ETV6RUNX1
N40940	Transmembrane protein with EGF-like and two follistatin-like domains 1	<i>TMEFF1</i>	8577	277165	11	Hyperdiploid
AA485439	Chromosome 1 open reading frame 121	<i>PNAS-4</i>	51029	811058	11	TCF3PBX1
AA292283	PHD finger protein 2	<i>PHF2</i>	5253	725841	11	TCF3PBX1
R88680	Hypothetical protein MGC10485	<i>MGC10485</i>	112936	166530	11	ETV6RUNX1
N31587	Interleukin-1 receptor-associated kinase 3	<i>IRAK3</i>	11213	271748	11	ETV6RUNX1
AA416685	Unc-13 homolog B (C. elegans)	<i>UNC13B</i>	10497	731257	11	Hyperdiploid
AA888182	Ribosomal protein S4, X-linked	<i>RPS4X</i>	6191	1492147	11	Hyperdiploid
AA479102	Protein kinase C, beta 1	<i>PRKCB1</i>	5579	753923	11	TCF3PBX1
AA424629	Latent transforming growth factor beta binding protein 2	<i>LTBP2</i>	4053	767202	11	TCF3PBX1
BX098872	Hypothetical gene supported by BC041875; BX648984	<i>0</i>	400642	767347	11	TCF3PBX1
AA421850	Hypothetical protein MGC4308	<i>MGC4308</i>	84319	754588	11	TCF3PBX1
AA452725	Nucleobindin 1	<i>NUCB1</i>	4924	788472	11	TCF3PBX1
AA460115	Ornithine decarboxylase 1	<i>ODC1</i>	4953	796646	11	TCF3PBX1
AA418095	508021 & 516808	<i>RCBTB1 &amp; PDE6D</i>	55213 & 5147	767422	11	TCF3PBX1
CR736732	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	<i>PFKFB2</i>	5208	325526	11	TCF3PBX1
BX089808	Hypothetical protein LOC285812	<i>LOC285812</i>	285812	32522	11	TCF3PBX1
W24873	Fucosidase, alpha-L- 1, tissue	<i>FUCA1</i>	2517	308437	11	TCF3PBX1
AA029842	Mature T cell proliferation 1	<i>MTCP1</i>	4515	470175	11	Hyperdiploid
AA429946	Dehydrogenase/reductase (SDR family) member 4	<i>DHRS4</i>	10901	781295	11	ETV6RUNX1
N35592	Hypothetical protein Eils1	<i>Eils1</i>	222166	272262	10	ETV6RUNX1
AA099522	MORC family CW-type zinc finger 4	<i>ZCWC2</i>	79710	489594	10	ETV6RUNX1
CR748825	Tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain	<i>TNFRSF10C</i>	8794	2108257	10	ETV6RUNX1
AW075557	Bromodomain adjacent to zinc finger domain, 2A RNA binding motif, single stranded interacting protein 1	<i>BAZ2A</i>	11176	2577057	10	ETV6RUNX1
T63461		<i>RBMS1</i>	5937	80030	10	ETV6RUNX1
AA465494	Acyl-CoA synthetase long-chain family member 5	<i>ACSL5</i>	51703	814053	10	TCF3PBX1
BX108643	Cyclin C	<i>CCNC</i>	892	789318	10	Hyperdiploid
AA775239	Tetraspanin 9	<i>NET5</i>	10867	878572	10	ETV6RUNX1
AA001874	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 9	<i>SLC9A9</i>	285195	428163	10	TCF3PBX1
AA256132	Interleukin 1 receptor accessory protein	<i>IL1RAP</i>	3556	681917	10	ETV6RUNX1
A1952526	FYN oncogene related to SRC, FGR, YES	<i>FYN</i>	2534	2549448	9	Hyperdiploid
BX096730	Transgelin 3	<i>TAGLN3</i>	29114	325160	9	ETV6RUNX1
N62311	Myozenin 3	<i>MYOZ3</i>	91977	287791	9	ETV6RUNX1
N52162	Protein kinase (cAMP-dependent, catalytic) inhibitor alpha	<i>PKIA</i>	5569	284401	8	Hyperdiploid
H59805	IGF-II mRNA-binding protein 1	<i>IMP-1</i>	10642	208078	8	Hyperdiploid
AA449326	Thyroid hormone receptor associated protein 2	<i>THRAP2</i>	23389	785710	8	TCF3PBX1

AA489290	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	<i>FARP1</i>	10160	842918	8	Hyperdiploid
AA456101	Phosphoinositide-3-kinase, class 3	<i>PIK3C3</i>	5289	813536	7	ETV6RUNX1
AA429248	HGFL gene	<i>MGC17330</i>	113791	769796	7	TCF3PBX1
AA464688	OCIA domain containing 2	<i>OCIAD2</i>	132299	810218	7	ETV6RUNX1
AI537061	Sex comb on midleg-like 1 (Drosophila)	<i>SCML1</i>	6322	2184814	7	Hyperdiploid
AA013172	Suppressor of Ty 3 homolog (S. cerevisiae)	<i>SUPT3H</i>	8464	361028	7	Hyperdiploid
W01471	Tripartite motif-containing 10	<i>TRIM10</i>	10107	294655	7	Hyperdiploid
AA070661	S100 calcium binding protein A13	<i>S100A13</i>	6284	530035	7	Hyperdiploid
R48131	167679 & 434946	<i>SH3BP2 &amp; 0</i>	6452 & 0	153694	6	ETV6RUNX1
AA701976	Inositol 1,4,5-triphosphate receptor, type 3	<i>ITPR3</i>	3710	435953	6	ETV6RUNX1
R06438	Myosin, light polypeptide kinase	<i>MYLK</i>	4638	126341	6	Hyperdiploid
AA455005	Sorting nexin 9	<i>SNX9</i>	51429	811937	6	ETV6RUNX1
AA970972	SMAD, mothers against DPP homolog 3 (Drosophila)	<i>SMAD3</i>	4088	1575263	6	ETV6RUNX1
AA706987	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)	<i>GALNT1</i>	2589	431397	6	TCF3PBX1
H98241	Spectrin, beta, non-erythrocytic 1	<i>SPTBN1</i>	6711	261246	5	Hyperdiploid
AA496886	369232 & 477425	<i>EPB41L5 &amp; SLC12A8</i>	57669 & 84561	897593	5	ETV6RUNX1
BX117216	Fusion (involved in t(12;16) in malignant liposarcoma)	<i>FUS</i>	2521	343181	4	Hyperdiploid
AA099522	MORC family CW-type zinc finger 4	<i>ZCWC2</i>	79710	489594	4	Hyperdiploid
AI359066	Small nuclear ribonucleoprotein polypeptide E	<i>SNRPE</i>	6635	2013064	4	TCF3PBX1
AI971009	Platelet activating factor acetylhydrolase 2, 40kDa	<i>PAFAH2</i>	5051	2488470	4	ETV6RUNX1
N47483	Glutathione S-transferase A4	<i>GSTA4</i>	2941	280769	4	ETV6RUNX1
AA453028	Stromal antigen 3	<i>MGC2463</i>	79037	788355	4	ETV6RUNX1
AW051907	KIAA0179	<i>KIAA0179</i>	23076	2557117	3	ETV6RUNX1
AI948893	SH3-domain binding protein 2	<i>SH3BP2</i>	6452	2471503	3	ETV6RUNX1
AA017576	Pyruvate dehydrogenase kinase, isoenzyme 1	<i>PKD1</i>	5163	361190	3	ETV6RUNX1
R53479	Hypothetical protein MGC10485	<i>MGC10485</i>	112936	40155	3	ETV6RUNX1
AA608572	Pyrophosphatase (inorganic)	<i>PP</i>	5464	950700	3	TCF3PBX1
AA487359	Dishevelled associated activator of morphogenesis 1	<i>DAAM1</i>	23002	841475	3	ETV6RUNX1
AA429946	Dehydrogenase/reductase (SDR family) member 4	<i>DHRS4</i>	10901	781295	3	Hyperdiploid
AA152346	Glutathione S-transferase A4	<i>GSTA4</i>	2941	504791	2	ETV6RUNX1
H08899	Isopentenyl-diphosphate delta isomerase 1	<i>IDII</i>	3422	44975	2	ETV6RUNX1
AA045057	Syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)	<i>SDC2</i>	6383	488873	2	Hyperdiploid
AW084720	Complement component 1, s subcomponent	<i>C1S</i>	716	2569884	2	ETV6RUNX1
AW051907	KIAA0179	<i>KIAA0179</i>	23076	2557117	2	Hyperdiploid
H16890	Hypothetical protein LOC550643	<i>0</i>	550643	50339	2	Hyperdiploid
AI682474	Nuclear transport factor 2-like export factor 2	<i>NXT2</i>	55916	2322396	2	TCF3PBX1
AI360738	KIAA1036	<i>KIAA1036</i>	22846	2011138	2	TCF3PBX1
R20402	Hypothetical protein LOC152485	<i>LOC152485</i>	152485	32776	2	ETV6RUNX1
AA703075	Pyruvate dehydrogenase kinase, isoenzyme 1	<i>PKD1</i>	5163	436761	2	ETV6RUNX1
R12847	Dmx-like 2	<i>DMXL2</i>	23312	26171	2	ETV6RUNX1
H23561	Deltex homolog 1 (Drosophila)	<i>DTX1</i>	1840	52120	2	ETV6RUNX1
AA446028	Paraoxonase 2	<i>PON2</i>	5445	781019	2	Hyperdiploid
N30348	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	<i>FLT1</i>	2321	258101	2	ETV6RUNX1
AA418036	GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome)	<i>GLI3</i>	2737	767495	2	TCF3PBX1
R14275	Cofactor required for Sp1 transcriptional activation, subunit 2, 150kDa	<i>CRSP2</i>	9282	28444	2	Hyperdiploid
BX102083	475970 & 548668	<i>OXSRI &amp; 0</i>	9943 & 0	198690	2	ETV6RUNX1
N28844	V-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)	<i>MAFG</i>	4097	266037	1	Hyperdiploid
AA453774	Regulator of G protein signaling 16	<i>RGS16</i>	6004	813707	1	ETV6RUNX1

CR743555	23581 & 413924	<i>LEPR &amp; CXCL10</i>	3953 & 3627	491243	1	TCF3PBX1
W01926	Membrane-spanning 4-domains, subfamily A, member 6A	<i>MS4A6A</i>	64231	294535	1	Hyperdiploid
N66008	Tumor suppressor candidate 3	<i>TUSC3</i>	7991	293859	1	Hyperdiploid
T95423	507452 & 515130	<i>XPO4 &amp; VANGL1</i>	64328 & 81839	120749	1	TCF3PBX1
W32777	Transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	<i>TLE3</i>	7090	321574	1	ETV6RUNX1
BX118776	Chromosome X open reading frame 45	<i>CXorf45</i>	79868	113298	1	Hyperdiploid
R95841	Ribosomal protein S6 kinase, 90kDa, polypeptide 3	<i>RPS6KA3</i>	6197	199198	1	Hyperdiploid
N44673	ADP-ribosylation factor-like 7	<i>ARL7</i>	10123	271952	1	TCF3PBX1
AI983274	ATPase, H <sup>+</sup> transporting, lysosomal accessory protein 2	<i>ATP6AP2</i>	10159	2517344	1	TCF3PBX1
AA478659	Nidogen 2 (osteonidogen)	<i>NID2</i>	22795	754093	1	TCF3PBX1
AI935306	WD repeat domain 68	<i>HAN11</i>	10238	2465039	1	TCF3PBX1
AI935172	Oculocerebrorenal syndrome of Lowe	<i>OCRL</i>	4952	2464833	1	TCF3PBX1
AI523637	Protocadherin 9	<i>PCDH9</i>	5101	2116531	1	ETV6RUNX1
R87642	LOC440135	<i>0</i>	440135	194600	1	ETV6RUNX1
W01471	Tripartite motif-containing 10	<i>TRIM10</i>	10107	294655	1	ETV6RUNX1
AI337373	PHD finger protein 19	<i>PHF19</i>	26147	2062453	1	TCF3PBX1
AI245605	D-aspartate oxidase	<i>DDO</i>	8528	1870049	1	ETV6RUNX1
AA455005	Sorting nexin 9	<i>SNX9</i>	51429	811937	1	Hyperdiploid
AA410481	KIAA0934	<i>KIAA0934</i>	22982	754451	1	Hyperdiploid
BX096730	Transgelin 3	<i>TAGLN3</i>	29114	325160	1	Hyperdiploid
AA954947	Epidermal growth factor (beta-urogastrone)	<i>EGF</i>	1950	1577736	1	TCF3PBX1
W52208	Coactosin-like 1 (Dictyostelium)	<i>COTL1</i>	23406	325370	1	Hyperdiploid
N30042	Clathrin, heavy polypeptide (Hc)	<i>CLTC</i>	1213	258547	1	ETV6RUNX1
R23318	Suppressor of cytokine signaling 2	<i>SOCS2</i>	8835	131073	1	TCF3PBX1
H08423	SET and MYND domain containing 2	<i>SMYD2</i>	56950	45623	1	TCF3PBX1
AA437212	Adaptor-related protein complex 1, sigma 2 subunit	<i>AP1S2</i>	8905	757428	1	Hyperdiploid
AA705153	Hypothetical protein FLJ10357	<i>FLJ10357</i>	55701	461613	1	ETV6RUNX1
AA405000	Ribonuclease T2	<i>RNASET2</i>	8635	712341	1	TCF3PBX1
AA504232	High-mobility group 20A	<i>HMG20A</i>	10363	825036	1	ETV6RUNX1
AA782314	Hypothetical protein MGC35440	<i>LOC147991</i>	147991	857574	1	Hyperdiploid
AA677572	PET112-like (yeast)	<i>PET112L</i>	5188	455263	1	ETV6RUNX1
AA521384	Solute carrier family 39 (zinc transporter), member 8	<i>SLC39A8</i>	64116	826995	1	ETV6RUNX1
AA281346	Chromosome X open reading frame 45	<i>CXorf45</i>	79868	705188	1	Hyperdiploid
N70078	Dedicator of cytokinesis 9	<i>DOCK9</i>	23348	297940	1	TCF3PBX1
T46897	Adhesion regulating molecule 1	<i>ADRM1</i>	11047	78869	1	TCF3PBX1
BX107484	Hypothetical protein LOC284749	<i>LOC284749</i>	284749	294381	1	TCF3PBX1
AA718910	MAD1 mitotic arrest deficienT like 1 (yeast)	<i>MAD1L1</i>	8379	1292432	1	TCF3PBX1
AA417921	85201 & 194694	<i>CLECSF2 &amp; MAP3K6</i>	9976 & 9064	767405	1	TCF3PBX1
AA460074	Protein kinase, cAMP-dependent, catalytic, beta	<i>PRKACB</i>	5567	796442	1	TCF3PBX1
BX113274	CDNA: FLJ22994 fis, clone KAT11918	<i>0</i>	0	823853	1	ETV6RUNX1
AA418780	IQ motif and Sec7 domain 1	<i>IQSEC1</i>	9922	767819	1	TCF3PBX1
AA485909	Prostatic binding protein	<i>PBP</i>	5037	843134	1	TCF3PBX1
AA599127	Superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))	<i>SOD1</i>	6647	950489	1	Hyperdiploid
AA056375	Hypothetical protein from clone 643	<i>LOC57228</i>	57228	509458	1	Hyperdiploid
AA147338	Hypothetical protein FLJ11506	<i>FLJ11506</i>	79719	589232	1	TCF3PBX1
AA169699	Hypothetical protein FLJ11171	<i>FLJ11171</i>	55783	609910	1	TCF3PBX1
AA053474	Hypothetical protein FLJ14166	<i>FLJ14166</i>	79616	509988	1	Hyperdiploid
AA608534	Chromosome 1 open reading frame 121	<i>PNAS-4</i>	51029	950600	1	TCF3PBX1
T60664	AHNAK nucleoprotein (desmoyokin)	<i>MGC5395</i>	79026	79216	1	TCF3PBX1



T60160	GABA(A) receptor-associated protein like 1	<i>GABARAPLI</i>	23710	81409	1	TCF3PBX1
AA126799	Glycosyltransferase 28 domain containing 1	<i>GLT28DI</i>	55849	490548	1	Hyperdiploid
BX104789	Carboxypeptidase X (M14 family)	<i>CPXM</i>	56265	898044	1	Hyperdiploid
AA485353	Lectin, galactoside-binding, soluble, 3 binding protein Transcribed locus, weakly similar to XP_209041.2	<i>LGALS3BP</i>	3959	811000	1	Hyperdiploid
AA461274	PREDICTED: similar to KIAA1503 protein [Homo sapiens]	0	0	796127	1	Hyperdiploid