

Supplementary Table8.Putative selection regions associated with hypoxic adaptation among different breeds

BD vs SG2							GY vs SG2		
CHROM	Start	end	Pi	Fst	Region	Gene	CHROM	Start	end
NC_056068.1	1205001	1225001	10.0294	0.356387	BD	AASDHPTT;KBTBD3	NC_056057.1	30380001	30400001
NC_056077.1	14820001	14840001	2.13714	0.294611	BD	ABCC1	NC_056057.1	30385001	30405001
NC_056056.1	1.94E+08	193940001	2.38445	0.367681	BD	ABCC9	NC_056057.1	30390001	30410001
NC_056056.1	1.94E+08	193945001	2.1189	0.347875	BD	ABCC9	NC_056080.1	67170001	67190001
NC_056059.1	37170001	37190001	4.46913	0.352764	BD	ABCG2	NC_056080.1	67175001	67195001
NC_056059.1	37175001	37195001	2.92135	0.348616	BD	ABCG2	NC_056080.1	67180001	67200001
NC_056059.1	37125001	37145001	2.27849	0.347842	BD	ABCG2;PPM1K	NC_056080.1	67185001	67205001
NC_056070.1	64130001	64150001	3.24393	0.450178	BD	ACACB;UNG	NC_056054.1	203740001	203760001
NC_056070.1	64125001	64145001	4.9632	0.405495	BD	ACACB;UNG	NC_056073.1	26670001	26690001
NC_056070.1	64120001	64140001	2.38671	0.315771	BD	ACACB;UNG	NC_056073.1	26675001	26695001
NC_056054.1	1.93E+08	193025001	2.16193	0.336964	BD	ACAP2	NC_056073.1	26680001	26700001
NC_056054.1	1.93E+08	193030001	3.50064	0.328763	BD	ACAP2	NC_056073.1	26690001	26710001
NC_056065.1	60965001	60985001	2.84688	0.35444	BD	ACBD6	NC_056073.1	26685001	26705001
NC_056065.1	60970001	60990001	11.8736	0.292642	BD	ACBD6	NC_056056.1	5920001	5940001
NC_056056.1	1.17E+08	117230001	4.95959	0.387928	BD	ACSS3	NC_056068.1	82095001	82115001
NC_056056.1	1.17E+08	117235001	3.95786	0.379339	BD	ACSS3	NC_056068.1	82100001	82120001
NC_056056.1	1.17E+08	117225001	3.15127	0.304654	BD	ACSS3	NC_056068.1	82105001	82125001
NC_056058.1	66715001	66735001	2.73729	0.312833	BD	ADAM19	NC_056068.1	82090001	82110001
NC_056057.1	73740001	73760001	3.50848	0.400585	BD	ADAM22	NC_056056.1	117175001	117195001
NC_056055.1	86625001	86645001	3.49715	0.341407	BD	ADAMTSL1	NC_056056.1	117180001	117200001
NW_024599827.1	865001	885001	3.23273	0.33907	BD	ADAMTSL3	NC_056056.1	117185001	117205001
NW_024599827.1	870001	890001	2.49759	0.321849	BD	ADAMTSL3	NC_056056.1	117190001	117210001
NC_056060.1	87080001	87100001	3.45946	0.422234	BD	ADCK1	NC_056056.1	117195001	117215001
NC_056060.1	87085001	87105001	3.52444	0.421494	BD	ADCK1	NC_056056.1	117205001	117225001
NC_056060.1	87090001	87110001	2.31484	0.382871	BD	ADCK1	NC_056056.1	117210001	117230001
NC_056060.1	87075001	87095001	2.33724	0.381632	BD	ADCK1	NC_056056.1	117215001	117235001
NC_056054.1	1.2E+08	120045001	9.43229	0.494807	BD	ADCY10	NC_056056.1	117220001	117240001
NC_056054.1	1.2E+08	120050001	7.24784	0.49394	BD	ADCY10	NC_056055.1	14395001	14415001
NC_056054.1	1.2E+08	120055001	4.61901	0.482188	BD	ADCY10	NC_056058.1	66715001	66735001
NC_056054.1	1.2E+08	120060001	3.22962	0.461121	BD	ADCY10	NC_056057.1	73705001	73725001
NC_056059.1	1.03E+08	102675001	2.97156	0.423006	BD	AFF1	NC_056057.1	73710001	73730001
NC_056059.1	1.03E+08	102670001	2.6419	0.298723	BD	AFF1	NC_056057.1	73835001	73855001
NC_056080.1	87120001	87140001	2.45506	0.332609	BD	AFF2	NC_056057.1	73845001	73865001
NC_056080.1	87115001	87135001	2.38188	0.317502	BD	AFF2	NC_056057.1	73855001	73875001
NC_056080.1	87110001	87130001	2.30843	0.308042	BD	AFF2	NC_056071.1	5860001	5880001
NC_056071.1	16985001	17005001	2.15202	0.323999	BD	AGBL1	NC_056071.1	5865001	5885001
NC_056079.1	5960001	5980001	19.33	0.333027	BD	AGPAT5	NC_056071.1	5870001	5890001
NC_056055.1	1.33E+08	132655001	2.21647	0.294797	BD	AGPS	NC_056071.1	5875001	5895001
NC_056057.1	94890001	94915001	4.36304	0.326651	BD	AHCYL2	NC_056055.1	86510001	86530001
NC_056057.1	94890001	94910001	4.28054	0.311131	BD	AHCYL2	NC_056055.1	86515001	86535001
NC_056057.1	94900001	94920001	3.03891	0.302793	BD	AHCYL2	NC_056070.1	46190001	46210001
NC_056055.1	73050001	73070001	2.85648	0.41107	BD	AK3	NC_056080.1	17235001	17255001
NC_056061.1	76120001	76140001	5.66166	0.35385	BD	AKAP12	NC_056079.1	32295001	32315001
NC_056061.1	76115001	76135001	3.8617	0.328331	BD	AKAP12	NC_056059.1	102565001	102585001
NC_056071.1	15655001	15675001	2.14143	0.309902	BD	AKAP13	NC_056059.1	102630001	102650001
NC_056061.1	49600001	49620001	6.61438	0.418045	BD	AKIRIN2	NC_056059.1	102635001	102655001
NC_056061.1	49605001	49625001	6.30768	0.37918	BD	AKIRIN2	NC_056059.1	102640001	102660001
NC_056061.1	49610001	49630001	6.08696	0.338459	BD	AKIRIN2	NC_056059.1	102645001	102665001
NC_056054.1	1.71E+08	171165001	6.08952	0.475712	BD	ALCAM	NC_056059.1	102650001	102670001
NC_056054.1	1.71E+08	171170001	7.15548	0.468021	BD	ALCAM	NC_056059.1	102655001	102675001
NC_056054.1	1.71E+08	171160001	5.05782	0.458181	BD	ALCAM	NC_056059.1	102660001	102680001
NC_056054.1	1.71E+08	171175001	7.19678	0.452922	BD	ALCAM	NC_056080.1	86995001	87015001
NC_056054.1	1.71E+08	171155001	4.43673	0.437737	BD	ALCAM	NC_056080.1	87015001	87035001
NC_056054.1	1.71E+08	171180001	4.63637	0.390534	BD	ALCAM	NC_056080.1	87110001	87130001
NC_056054.1	1.71E+08	171150001	4.38824	0.386369	BD	ALCAM	NC_056080.1	87115001	87135001
NC_056054.1	1.71E+08	171185001	3.10375	0.30094	BD	ALCAM	NC_056080.1	87120001	87140001
NC_056068.1	21900001	21920001	2.42971	0.303658	BD	ALG9;C15H11orf1;FENC	NC_056056.1	101370001	101390001
NC_056070.1	64135001	64155001	2.61637	0.398454	BD	ALKBH2;UNG	NC_056054.1	10845001	10865001
NC_056070.1	64145001	64165001	2.65127	0.342211	BD	ALKBH2;UNG;USP3	NC_056054.1	264610001	264630001
NC_056070.1	64140001	64160001	2.65293	0.313128	BD	ALKBH2;UNG;USP3	NC_056061.1	56735001	56755001
NC_056070.1	64155001	64175001	16.1892	0.424262	BD	ALKBH2;USP30	NC_056072.1	48750001	48770001
NC_056070.1	64150001	64170001	7.67949	0.375825	BD	ALKBH2;USP30	NC_056072.1	48745001	48765001
NC_056058.1	14740001	14760001	2.18444	0.328763	BD	ANGPTL4	NC_056055.1	247460001	247480001
NC_056078.1	15435001	15455001	5.60194	0.413864	BD	ANK3	NC_056072.1	52795001	52815001
NC_056078.1	15430001	15450001	4.49124	0.381643	BD	ANK3	NC_056072.1	52780001	52800001
NC_056078.1	15440001	15460001	4.36531	0.379779	BD	ANK3	NC_056072.1	52785001	52805001
NC_056078.1	15500001	15520001	2.75669	0.320854	BD	ANK3	NC_056080.1	124960001	124980001
NC_056078.1	15505001	15525001	2.45268	0.29984	BD	ANK3	NC_056080.1	124980001	125000001
NC_056078.1	15445001	15465001	2.54865	0.295523	BD	ANK3	NC_056080.1	125015001	125035001

NC_056060.1	11855001	11875001	2.72701	0.311709	BD	ANKDD1A	NC_056080.1	121900001	121920001
NC_056060.1	6990001	7010001	11.0891	0.296336	BD	ANKDD1B;POLK	NC_056068.1	15230001	15250001
NC_056068.1	23635001	23655001	5.34725	0.304566	BD	ANKK1	NC_056060.1	86225001	86245001
NC_056061.1	47970001	47990001	3.90696	0.313587	BD	ANKRD6	NC_056060.1	11845001	11865001
NC_056055.1	49065001	49085001	18.7985	0.308504	BD	ANKS6	NC_056060.1	11850001	11870001
NC_056055.1	49060001	49080001	4.71853	0.306327	BD	ANKS6	NC_056060.1	11855001	11875001
NC_056056.1	1.7E+08	170445001	3.80808	0.371925	BD	ANO4	NC_056068.1	23630001	23650001
NC_056056.1	1.7E+08	170440001	12.062	0.334937	BD	ANO4	NC_056068.1	23635001	23655001
NC_056074.1	20060001	20080001	6.16667	0.504217	BD	ANO5	NC_056068.1	23640001	23660001
NC_056074.1	20065001	20085001	3.60578	0.48754	BD	ANO5	NC_056068.1	23645001	23665001
NC_056074.1	20055001	20075001	5.51242	0.466613	BD	ANO5	NC_056068.1	23650001	23670001
NC_056074.1	20050001	20070001	4.6455	0.447036	BD	ANO5	NC_056068.1	23655001	23675001
NC_056074.1	20035001	20055001	3.43128	0.418587	BD	ANO5	NC_056063.1	84690001	84710001
NC_056074.1	20070001	20090001	2.10004	0.40105	BD	ANO5	NC_056063.1	84675001	84695001
NC_056074.1	20045001	20065001	2.43986	0.371126	BD	ANO5	NC_056063.1	84680001	84700001
NC_056074.1	20040001	20060001	2.225	0.310676	BD	ANO5	NC_056063.1	84685001	84705001
NC_056080.1	1425001	1445001	5.93411	0.315337	BD	ANOS1	NC_056060.1	6610001	6630001
NC_056080.1	1430001	1450001	6.67339	0.302819	BD	ANOS1	NC_056060.1	6615001	6635001
NC_056074.1	46840001	46860001	2.14471	0.334127	BD	AP2A2	NC_056060.1	6620001	6640001
NC_056074.1	46835001	46855001	2.77778	0.322396	BD	AP2A2	NC_056069.1	62770001	62790001
NC_056056.1	28785001	28805001	2.11722	0.297305	BD	APOB	NC_056069.1	62775001	62795001
NC_056056.1	28790001	28810001	2.94609	0.295876	BD	APOB	NC_056069.1	62780001	62800001
NC_056074.1	15960001	15980001	2.57783	0.37651	BD	AQP11	NC_056069.1	62785001	62805001
NC_056074.1	15965001	15985001	2.11335	0.308076	BD	AQP11	NC_056079.1	14845001	14865001
NC_056074.1	15955001	15975001	2.49347	0.3905	BD	AQP11;CLNS1A	NC_056079.1	14835001	14855001
NC_056074.1	15950001	15970001	2.44166	0.389193	BD	AQP11;CLNS1A	NC_056079.1	14840001	14860001
NC_056055.1	37705001	37725001	5.15228	0.361816	BD	AQP3;NOL6	NC_056055.1	199425001	199445001
NC_056060.1	41095001	41115001	2.97819	0.334943	BD	ARF6	NC_056055.1	199430001	199450001
NC_056070.1	10395001	10415001	3.42869	0.353769	BD	ARHGAP10	NC_056055.1	199435001	199455001
NC_056070.1	10390001	10410001	5.19577	0.335118	BD	ARHGAP10	NC_056056.1	170315001	170335001
NC_056070.1	10385001	10405001	2.65275	0.331548	BD	ARHGAP10	NC_056056.1	170320001	170340001
NC_056070.1	10400001	10420001	3.38248	0.301819	BD	ARHGAP10	NC_056056.1	170325001	170345001
NC_056076.1	40355001	40375001	3.12107	0.332311	BD	ARHGAP28	NC_056056.1	170330001	170350001
NC_056076.1	40365001	40385001	2.15683	0.298722	BD	ARHGAP28	NC_056056.1	170365001	170385001
NC_056076.1	40360001	40380001	2.41898	0.290952	BD	ARHGAP28	NC_056056.1	170370001	170390001
NC_056080.1	9680001	9700001	11.4155	0.46378	BD	ARHGAP6	NC_056056.1	170375001	170395001
NC_056080.1	9675001	9695001	4.94558	0.424336	BD	ARHGAP6	NC_056056.1	170380001	170400001
NC_056080.1	9720001	9740001	3.37127	0.415007	BD	ARHGAP6	NC_056056.1	170385001	170405001
NC_056080.1	9730001	9750001	2.82927	0.412982	BD	ARHGAP6	NC_056056.1	170555001	170575001
NC_056080.1	9725001	9745001	2.52864	0.404416	BD	ARHGAP6	NC_056056.1	141285001	141305001
NC_056080.1	9710001	9730001	3.52173	0.397896	BD	ARHGAP6	NC_056056.1	141290001	141310001
NC_056080.1	9715001	9735001	3.325	0.396154	BD	ARHGAP6	NC_056056.1	28790001	28810001
NC_056080.1	9550001	9570001	8.56801	0.391342	BD	ARHGAP6	NC_056055.1	37705001	37725001
NC_056080.1	9670001	9690001	2.22222	0.391316	BD	ARHGAP6	NC_056060.1	41095001	41115001
NC_056080.1	9335001	9355001	2.12575	0.383333	BD	ARHGAP6	NC_056080.1	9260001	9280001
NC_056080.1	9625001	9645001	2.43038	0.375152	BD	ARHGAP6	NC_056058.1	58755001	58775001
NC_056080.1	9735001	9755001	2.2093	0.352938	BD	ARHGAP6	NC_056062.1	42985001	43005001
NC_056080.1	9310001	9330001	3.06333	0.345628	BD	ARHGAP6	NC_056060.1	68490001	68510001
NC_056080.1	9585001	9605001	2.60172	0.342356	BD	ARHGAP6	NC_056056.1	188040001	188060001
NC_056080.1	9590001	9610001	2.83983	0.330296	BD	ARHGAP6	NC_056056.1	188045001	188065001
NC_056080.1	9595001	9615001	3.27419	0.316558	BD	ARHGAP6	NC_056072.1	9610001	9630001
NC_056080.1	9600001	9620001	2.67136	0.310181	BD	ARHGAP6	NC_056072.1	9615001	9635001
NC_056080.1	9545001	9565001	4.09565	0.310043	BD	ARHGAP6	NC_056079.1	6960001	6980001
NC_056080.1	9315001	9335001	2.13333	0.29321	BD	ARHGAP6	NC_056074.1	45670001	45690001
NC_056054.1	1.06E+08	105990001	3.31648	0.35843	BD	ARHGEF2;RXFP4	NC_056065.1	57750001	57770001
NC_056054.1	1.06E+08	105985001	13.6194	0.358021	BD	ARHGEF2;RXFP4	NC_056065.1	57755001	57775001
NC_056054.1	1.06E+08	106045001	2.21542	0.297381	BD	ARHGEF2;SSR2	NC_056065.1	57760001	57780001
NC_056054.1	1.01E+08	100810001	6.12063	0.365189	BD	ARNT	NC_056080.1	127080001	127100001
NC_056054.1	1.01E+08	100805001	4.28434	0.355037	BD	ARNT	NC_056067.1	7200001	7220001
NC_056054.1	1.01E+08	100815001	5.55718	0.354405	BD	ARNT	NC_056067.1	7205001	7225001
NC_056054.1	1.01E+08	100795001	3.77131	0.333374	BD	ARNT	NC_056058.1	69800001	69820001
NC_056054.1	1.01E+08	100800001	3.75532	0.324018	BD	ARNT	NC_056058.1	69805001	69825001
NC_056068.1	39040001	39060001	4.74745	0.377746	BD	ARNTL;BTBD10	NC_056058.1	69810001	69830001
NC_056068.1	39045001	39065001	2.27272	0.338572	BD	ARNTL;BTBD10	NC_056064.1	42275001	42295001
NC_056068.1	39035001	39055001	5.62173	0.312885	BD	ARNTL;BTBD10	NC_056080.1	69055001	69075001
NC_056062.1	23595001	23615001	2.19563	0.342958	BD	ASAP1	NC_056080.1	69060001	69080001
NC_056062.1	23590001	23610001	2.17369	0.297093	BD	ASAP1	NC_056080.1	69065001	69085001
NC_056055.1	2.21E+08	221450001	3.26235	0.322916	BD	ASIC4	NC_056080.1	69070001	69090001
NC_056064.1	24075001	24095001	4.36843	0.481744	BD	ASPA;SPATA22	NC_056054.1	247180001	247200001
NC_056064.1	24080001	24100001	2.1658	0.330863	BD	ASPA;SPATA22	NC_056054.1	247185001	247205001
NC_056055.1	6910001	6930001	2.30689	0.299527	BD	ASTN2	NC_056066.1	59195001	59215001
NC_056055.1	1.35E+08	135015001	3.30829	0.336234	BD	ATF2	NC_056066.1	59200001	59220001
NC_056055.1	1.35E+08	135010001	5.24818	0.315713	BD	ATF2	NC_056066.1	59205001	59225001
NC_056055.1	1.35E+08	135020001	2.98039	0.311883	BD	ATF2	NC_056066.1	59210001	59230001

NC_056055.1	1.35E+08	135000001	3.66498	0.309466	BD	ATF2	NC_056066.1	59215001	59235001
NC_056055.1	1.35E+08	135005001	4.1768	0.295426	BD	ATF2	NC_056078.1	7580001	7600001
NC_056060.1	41700001	41720001	4.83697	0.417802	BD	ATL1	NC_056078.1	7585001	7605001
NC_056060.1	41695001	41715001	4.63835	0.40332	BD	ATL1	NC_056076.1	25780001	25800001
NC_056060.1	41705001	41725001	4.42548	0.372941	BD	ATL1	NC_056076.1	25785001	25805001
NC_056060.1	41690001	41710001	2.63992	0.322904	BD	ATL1	NC_056076.1	25790001	25810001
NC_056067.1	7200001	7220001	9.20987	0.519729	BD	ATMIN;CENPN	NC_056076.1	25820001	25840001
NC_056067.1	7205001	7225001	4.10382	0.455697	BD	ATMIN;CENPN	NC_056076.1	25825001	25845001
NC_056067.1	7210001	7230001	2.35674	0.35818	BD	ATMIN;CENPN	NC_056076.1	25830001	25850001
NC_056058.1	69800001	69820001	5.23786	0.364987	BD	ATP10B	NC_056074.1	40820001	40840001
NC_056058.1	69805001	69825001	3.19513	0.361235	BD	ATP10B	NC_056074.1	40825001	40845001
NC_056058.1	69810001	69830001	2.43125	0.360637	BD	ATP10B	NC_056074.1	40810001	40830001
NC_056080.1	95530001	95550001	5.81545	0.33288	BD	ATP11C	NC_056074.1	40815001	40835001
NC_056056.1	1.62E+08	161750001	2.16788	0.396681	BD	ATP23	NC_056079.1	32455001	32475001
NC_056056.1	1.62E+08	161745001	2.10556	0.394292	BD	ATP23	NC_056059.1	23195001	23215001
NC_056056.1	1.62E+08	161735001	2.35361	0.341823	BD	ATP23	NC_056059.1	23200001	23220001
NC_056064.1	24420001	24440001	2.71134	0.477816	BD	ATP2A3;P2RX1	NC_056067.1	23620001	23640001
NC_056064.1	24415001	24435001	2.32443	0.451638	BD	ATP2A3;P2RX1	NC_056057.1	65110001	65130001
NC_056054.1	1.22E+08	122305001	3.47988	0.448261	BD	ATP5PO	NC_056067.1	52335001	52355001
NC_056054.1	1.22E+08	122310001	3.19005	0.431099	BD	ATP5PO	NC_056067.1	52340001	52360001
NC_056054.1	1.22E+08	122315001	3.15662	0.448611	BD	ATP5PO;ITSN1	NC_056054.1	70870001	70890001
NC_056071.1	54585001	54605001	2.84597	0.532062	BD	ATXN3	NC_056080.1	39390001	39410001
NC_056071.1	54580001	54600001	2.32857	0.502432	BD	ATXN3	NC_056075.1	50220001	50240001
NC_056071.1	54575001	54595001	2.24546	0.50049	BD	ATXN3	NC_056075.1	50225001	50245001
NC_056071.1	54570001	54590001	2.43988	0.454296	BD	ATXN3	NC_056075.1	50230001	50250001
NC_056071.1	54600001	54620001	2.70454	0.34833	BD	ATXN3;NDUFB1	NC_056069.1	5500001	5520001
NC_056071.1	54595001	54615001	2.26755	0.307696	BD	ATXN3;NDUFB1	NC_056054.1	69350001	69370001
NC_056066.1	59205001	59225001	5.21239	0.729278	BD	AURKA;CSTF1	NC_056054.1	69355001	69375001
NC_056066.1	59200001	59220001	4.45929	0.687639	BD	AURKA;CSTF1	NC_056060.1	33990001	34010001
NC_056066.1	59195001	59215001	2.32719	0.574545	BD	AURKA;CSTF1	NC_056060.1	34020001	34040001
NC_056066.1	59210001	59230001	3.91259	0.706025	BD	AURKA;CSTF1;FAM	NC_056063.1	20855001	20875001
NC_056077.1	30530001	30550001	2.48087	0.378398	BD	AUTS2	NC_056065.1	64915001	64935001
NC_056077.1	30535001	30555001	3.41576	0.36483	BD	AUTS2	NC_056065.1	64920001	64940001
NC_056077.1	30540001	30560001	3.86416	0.346626	BD	AUTS2	NC_056065.1	64925001	64945001
NC_056077.1	30545001	30565001	2.40586	0.307757	BD	AUTS2	NC_056065.1	64930001	64950001
NC_056074.1	40825001	40845001	5.72254	0.410358	BD	B4GAT1;BRMS1	NC_056065.1	64935001	64955001
NC_056074.1	40820001	40840001	6.47501	0.400067	BD	B4GAT1;BRMS1	NC_056065.1	65035001	65055001
NC_056074.1	40815001	40835001	2.87138	0.33751	BD	B4GAT1;BRMS1;RIN	NC_056065.1	65040001	65060001
NC_056079.1	32455001	32475001	2.54286	0.388034	BD	BAG4	NC_056065.1	65045001	65065001
NC_056066.1	35405001	35425001	2.39033	0.32917	BD	BAMBI	NC_056067.1	12355001	12375001
NC_056057.1	65110001	65130001	5.14635	0.474808	BD	BBS9	NC_056067.1	12360001	12380001
NC_056057.1	65115001	65135001	3.36878	0.422684	BD	BBS9	NC_056067.1	55360001	55380001
NC_056057.1	65105001	65125001	4.14457	0.414775	BD	BBS9	NC_056068.1	21940001	21960001
NC_056057.1	65120001	65140001	2.18574	0.315913	BD	BBS9	NC_056068.1	21945001	21965001
NC_056057.1	65100001	65120001	2.89513	0.303578	BD	BBS9	NC_056068.1	19010001	19030001
NC_056067.1	52335001	52355001	6.88449	0.352636	BD	BCAM;CBLC	NC_056068.1	15635001	15655001
NC_056080.1	18455001	18475001	2.38308	0.299855	BD	BCLAF3	NC_056068.1	15640001	15660001
NC_056080.1	1.29E+08	129150001	2.90919	0.324352	BD	BEX4	NC_056068.1	15645001	15665001
NC_056080.1	1.29E+08	129155001	2.96306	0.295606	BD	BEX4	NC_056080.1	104945001	104965001
NC_056062.1	13605001	13625001	8.23496	0.434705	BD	BOP1;MROH1	NC_056054.1	69460001	69480001
NC_056062.1	13600001	13620001	7.58683	0.419655	BD	BOP1;MROH1;SCX	NC_056054.1	69485001	69505001
NC_056062.1	13595001	13615001	4.08756	0.344555	BD	BOP1;MROH1;SCX	NC_056054.1	69490001	69510001
NC_056054.1	19475001	19495001	5.31034	0.354312	BD	BTBD19;DYNLT4;PL	NC_056054.1	69495001	69515001
NC_056054.1	69355001	69375001	2.79629	0.319519	BD	BTBD8	NC_056054.1	69500001	69520001
NC_056080.1	1.33E+08	133065001	2.66789	0.431104	BD	BTK;LOC101105982	NC_056054.1	69505001	69525001
NC_056060.1	33990001	34010001	5.11707	0.307025	BD	BUB1B	NC_056054.1	102650001	102670001
NC_056065.1	64925001	64945001	10.8593	0.472874	BD	C12H1orf21	NC_056054.1	232600001	232620001
NC_056065.1	64920001	64940001	13.2903	0.441683	BD	C12H1orf21	NC_056056.1	102170001	102190001
NC_056065.1	64930001	64950001	4.89429	0.412041	BD	C12H1orf21	NC_056059.1	25430001	25450001
NC_056065.1	64935001	64955001	3.57143	0.388845	BD	C12H1orf21	NC_056059.1	25435001	25455001
NC_056065.1	64855001	64875001	2.67476	0.351579	BD	C12H1orf21	NC_056059.1	25440001	25460001
NC_056065.1	64915001	64935001	5.22763	0.319776	BD	C12H1orf21	NC_056059.1	25445001	25465001
NC_056065.1	64940001	64960001	2.51306	0.309872	BD	C12H1orf21	NC_056059.1	103935001	103955001
NC_056065.1	64850001	64870001	2.84342	0.291474	BD	C12H1orf21	NC_056059.1	103940001	103960001
NC_056068.1	21940001	21960001	8.32789	0.444844	BD	C15H11orf52;DIXDC	NC_056068.1	25495001	25515001
NC_056068.1	21945001	21965001	3.69474	0.424458	BD	C15H11orf52;DIXDC	NC_056054.1	154775001	154795001
NC_056068.1	21935001	21955001	3.68931	0.314659	BD	C15H11orf52;DIXDC	NC_056054.1	154780001	154800001
NC_056068.1	15635001	15655001	2.24532	0.403139	BD	C15H11orf97	NC_056054.1	154785001	154805001
NC_056068.1	15640001	15660001	2.29783	0.375269	BD	C15H11orf97	NC_056054.1	154790001	154810001
NC_056068.1	15630001	15650001	2.38709	0.372015	BD	C15H11orf97	NC_056056.1	132815001	132835001
NC_056068.1	15625001	15645001	3.6189	0.370715	BD	C15H11orf97	NC_056056.1	132820001	132840001
NC_056072.1	50890001	50910001	7.10184	0.396902	BD	C19H3orf84;CCDC71	NC_056056.1	79865001	79885001
NC_056072.1	50895001	50915001	7.90982	0.403322	BD	C19H3orf84;CCDC71	NC_056056.1	79870001	79890001
NC_056072.1	50900001	50920001	7.89566	0.394188	BD	C19H3orf84;CCDC71	NC_056056.1	79875001	79895001

NC_056072.1	50885001	50905001	3.10769	0.307843	BD	C19H3orf84;KLHDC8	NC_056056.1	79880001	79900001
NC_056080.1	1.05E+08	104965001	9.26895	0.462851	BD	C1GALT1C1	NC_056056.1	79885001	79905001
NC_056080.1	1.05E+08	104960001	4.02703	0.426046	BD	C1GALT1C1	NC_056056.1	79890001	79910001
NC_056054.1	69505001	69525001	7.97115	0.424315	BD	C1H1orf146;GLMN	NC_056056.1	79895001	79915001
NC_056054.1	69500001	69520001	6.44473	0.334037	BD	C1H1orf146;GLMN	NC_056056.1	79900001	79920001
NC_056054.1	69495001	69515001	6.1845	0.313016	BD	C1H1orf146;GLMN	NC_056056.1	79925001	79945001
NC_056054.1	1.04E+08	104515001	2.34649	0.35661	BD	C1H1orf189;C1H1orf	NC_056056.1	79945001	79965001
NC_056054.1	1.14E+08	113920001	7.13445	0.465109	BD	C1H1orf226	NC_056056.1	79950001	79970001
NC_056054.1	1.14E+08	113915001	4.38095	0.430793	BD	C1H1orf226	NC_056073.1	39195001	39215001
NC_056054.1	1.14E+08	113910001	2.85219	0.387946	BD	C1H1orf226;SPATA4	NC_056073.1	39200001	39220001
NC_056074.1	41180001	41200001	4.40137	0.423037	BD	C21H1orf80	NC_056065.1	26240001	26260001
NC_056074.1	41375001	41395001	2.34627	0.329488	BD	C21H1orf86	NC_056065.1	26245001	26265001
NC_056074.1	41370001	41390001	2.61765	0.301544	BD	C21H1orf86;PC	NC_056065.1	26250001	26270001
NC_056055.1	1.19E+08	119125001	6.40116	0.411657	BD	C2H2orf88	NC_056065.1	26255001	26275001
NC_056055.1	1.19E+08	119130001	6.91176	0.40421	BD	C2H2orf88	NC_056056.1	181540001	181560001
NC_056055.1	1.19E+08	119120001	7.87584	0.396556	BD	C2H2orf88	NC_056056.1	181545001	181565001
NC_056055.1	1.19E+08	119115001	8.32025	0.395257	BD	C2H2orf88;HIBCH	NC_056056.1	181550001	181570001
NC_056055.1	1.19E+08	119110001	9.21311	0.366203	BD	C2H2orf88;HIBCH	NC_056056.1	181555001	181575001
NC_056055.1	1.19E+08	119105001	2.37201	0.310526	BD	C2H2orf88;HIBCH	NC_056080.1	40870001	40890001
NC_056055.1	64670001	64690001	8.76548	0.387096	BD	C2H9orf85	NC_056054.1	111220001	111240001
NC_056055.1	64675001	64695001	5.5826	0.329636	BD	C2H9orf85	NC_056066.1	59170001	59190001
NC_056055.1	64665001	64685001	4.51447	0.301317	BD	C2H9orf85	NC_056066.1	59175001	59195001
NC_056057.1	88550001	88570001	3.44883	0.301341	BD	CADPS2	NC_056066.1	59180001	59200001
NC_056057.1	88545001	88565001	3.48546	0.293298	BD	CADPS2	NC_056067.1	13625001	13645001
NC_056056.1	79880001	79900001	7.72109	0.72329	BD	CAMKMT	NC_056067.1	13630001	13650001
NC_056056.1	79885001	79905001	8.57928	0.654468	BD	CAMKMT	NC_056067.1	13635001	13655001
NC_056056.1	79875001	79895001	3.91135	0.600541	BD	CAMKMT	NC_056067.1	13650001	13670001
NC_056056.1	79890001	79910001	7.46584	0.598198	BD	CAMKMT	NC_056067.1	52320001	52340001
NC_056056.1	79895001	79915001	3.9106	0.523592	BD	CAMKMT	NC_056067.1	52325001	52345001
NC_056056.1	79870001	79890001	2.86477	0.482718	BD	CAMKMT	NC_056067.1	52330001	52350001
NC_056056.1	79945001	79965001	2.47834	0.459855	BD	CAMKMT	NC_056078.1	24275001	24295001
NC_056056.1	79940001	79960001	3.13031	0.403876	BD	CAMKMT	NC_056078.1	24260001	24280001
NC_056058.1	14195001	14215001	3.83165	0.349296	BD	CAMSAP3;LOC10112	NC_056078.1	24265001	24285001
NC_056080.1	40860001	40880001	2.46558	0.378833	BD	CASK;GPR34	NC_056064.1	44155001	44175001
NC_056080.1	40865001	40885001	2.51282	0.391851	BD	CASK;GPR34;GPR82	NC_056076.1	54625001	54645001
NC_056080.1	40870001	40890001	2.79736	0.372707	BD	CASK;GPR82	NC_056076.1	54630001	54650001
NC_056065.1	42175001	42195001	3.19356	0.362699	BD	CASZ1	NC_056076.1	54635001	54655001
NC_056065.1	42180001	42200001	2.69452	0.339946	BD	CASZ1	NC_056064.1	15485001	15505001
NC_056065.1	42185001	42205001	2.37389	0.317141	BD	CASZ1	NC_056064.1	15490001	15510001
NC_056067.1	13630001	13650001	4.73786	0.457249	BD	CBFA2T3	NC_056059.1	34735001	34755001
NC_056067.1	13625001	13645001	2.6134	0.404291	BD	CBFA2T3	NC_056059.1	34740001	34760001
NC_056067.1	13635001	13655001	6.7234	0.369101	BD	CBFA2T3	NC_056059.1	34895001	34915001
NC_056067.1	52330001	52350001	11.6605	0.388421	BD	CBLC	NC_056059.1	34900001	34920001
NC_056067.1	52325001	52345001	7.95798	0.373265	BD	CBLC	NC_056059.1	34905001	34925001
NC_056067.1	52320001	52340001	6.33015	0.350895	BD	CBLC	NC_056059.1	34910001	34930001
NC_056064.1	52095001	52115001	2.49275	0.354594	BD	CBX2	NC_056064.1	45985001	46005001
NC_056064.1	52100001	52120001	2.31836	0.33582	BD	CBX2	NC_056067.1	32370001	32390001
NC_056078.1	24265001	24285001	6.32172	0.318068	BD	CCAR1;TET1	NC_056076.1	60235001	60255001
NC_056078.1	24260001	24280001	7	0.303511	BD	CCAR1;TET1	NC_056066.1	55030001	55050001
NC_056056.1	2.19E+08	218650001	2.60686	0.345449	BD	CCDC134;MEI1	NC_056066.1	55035001	55055001
NC_056080.1	1.01E+08	100735001	2.43263	0.386661	BD	CCDC160	NC_056066.1	55040001	55060001
NC_056064.1	50255001	50275001	3.07235	0.295782	BD	CCDC57	NC_056078.1	38215001	38235001
NC_056064.1	50230001	50250001	2.53658	0.292958	BD	CCDC57	NC_056055.1	2975001	2995001
NC_056064.1	50265001	50285001	2.95906	0.310417	BD	CCDC57;FASN	NC_056055.1	2980001	3000001
NC_056064.1	50260001	50280001	3.6845	0.308226	BD	CCDC57;FASN	NC_056059.1	91165001	91185001
NC_056070.1	54705001	54725001	9.17647	0.341534	BD	CCDC63	NC_056059.1	91170001	91190001
NC_056070.1	54710001	54730001	6.84082	0.317164	BD	CCDC63	NC_056059.1	91175001	91195001
NC_056072.1	50905001	50925001	4.89142	0.376857	BD	CCDC71;KLHDC8B;I	NC_056059.1	91180001	91200001
NC_056072.1	50910001	50930001	3.07089	0.332878	BD	CCDC71;LOC106991	NC_056060.1	4640001	4660001
NC_056077.1	34490001	34510001	13.6979	0.302801	BD	CCL26	NC_056060.1	21540001	21560001
NC_056074.1	43275001	43295001	2.83473	0.400539	BD	CCND1	NC_056060.1	21545001	21565001
NC_056074.1	43280001	43300001	2.19772	0.302432	BD	CCND1	NC_056067.1	7195001	7215001
NC_056072.1	53005001	53025001	16.5279	0.403998	BD	CCR5	NC_056067.1	7190001	7210001
NC_056072.1	53010001	53030001	17.2611	0.394156	BD	CCR5	NC_056055.1	140890001	140910001
NC_056072.1	53000001	53020001	15.5965	0.361427	BD	CCR5	NC_056055.1	140895001	140915001
NC_056072.1	53015001	53035001	23.5969	0.400063	BD	CCR5;LOC10117706	NC_056055.1	140900001	140920001
NC_056072.1	53020001	53040001	8.84298	0.329522	BD	CCR5;LOC10117706	NC_056055.1	140950001	140975001
NC_056072.1	52990001	53010001	13.4078	0.317948	BD	CCRL2	NC_056055.1	140910001	140930001
NC_056054.1	1.28E+08	127720001	2.34449	0.342471	BD	CCT8;USP16	NC_056055.1	140915001	140935001
NC_056054.1	1.12E+08	112090001	3.00624	0.299017	BD	CD244	NC_056055.1	140920001	140940001
NC_056054.1	1.12E+08	112095001	2.9878	0.297789	BD	CD244	NC_056080.1	35435001	35455001
NC_056064.1	45925001	45945001	2.12791	0.465863	BD	CDC27	NC_056080.1	35440001	35460001
NC_056064.1	45985001	46005001	2.52355	0.33929	BD	CDC27	NC_056080.1	35445001	35465001
NC_056058.1	35790001	35810001	2.46154	0.36417	BD	CDHR2;GPRIN1	NC_056080.1	35450001	35470001

NC_056061.1	26780001	26800001	3.10207	0.412537	BD	CDK19	NC_056080.1	35455001	35475001
NC_056061.1	26795001	26815001	2.64893	0.37292	BD	CDK19	NC_056057.1	98260001	98280001
NC_056061.1	26775001	26795001	2.20793	0.330349	BD	CDK19	NC_056057.1	98270001	98290001
NC_056055.1	3070001	3090001	21.5117	0.315346	BD	CDK5RAP2	NC_056057.1	98275001	98295001
NC_056055.1	3020001	3040001	2.54054	0.312881	BD	CDK5RAP2	NC_056057.1	98280001	98300001
NC_056055.1	3075001	3095001	16.0785	0.309695	BD	CDK5RAP2	NC_056057.1	98285001	98305001
NC_056055.1	3065001	3085001	16.1835	0.308639	BD	CDK5RAP2	NC_056057.1	98290001	98310001
NC_056055.1	3080001	3100001	9.93672	0.299976	BD	CDK5RAP2	NC_056057.1	98295001	98315001
NC_056055.1	3085001	3105001	8.08275	0.295338	BD	CDK5RAP2	NC_056057.1	98300001	98320001
NC_056074.1	26775001	26795001	3.49448	0.472929	BD	CDON;VSI10L2	NC_056057.1	98305001	98325001
NC_056074.1	26780001	26800001	2.72557	0.423974	BD	CDON;VSI10L2	NC_056057.1	98330001	98350001
NC_056074.1	26770001	26790001	2.48303	0.397848	BD	CDON;VSI10L2	NC_056057.1	98335001	98355001
NC_056055.1	64950001	64970001	11.2576	0.493627	BD	CEMP12	NC_056057.1	98375001	98395001
NC_056055.1	64940001	64960001	5.20995	0.312043	BD	CEMP12	NC_056077.1	1160001	1180001
NC_056059.1	22050001	22070001	2.17647	0.3572	BD	CENPE	NC_056068.1	24030001	24050001
NC_056067.1	7195001	7215001	9.30179	0.5243	BD	CENPN	NC_056068.1	24035001	24055001
NC_056067.1	7190001	7210001	4.22233	0.465018	BD	CENPN;LOC1011211	NC_056068.1	24025001	24045001
NC_056065.1	60575001	60595001	2.44386	0.300932	BD	CEP350	NC_056068.1	24020001	24040001
NC_056056.1	43275001	43295001	5.39655	0.319819	BD	CEP68	NC_056056.1	206070001	206090001
NC_056056.1	43255001	43275001	6.74672	0.315987	BD	CEP68	NC_056056.1	206075001	206095001
NC_056056.1	43270001	43290001	5.45652	0.293347	BD	CEP68	NC_056056.1	206080001	206100001
NC_056060.1	6895001	6915001	3.53447	0.438298	BD	CERT1	NC_056056.1	206085001	206105001
NC_056060.1	6890001	6910001	3.13536	0.428448	BD	CERT1	NC_056073.1	19130001	19150001
NC_056054.1	1.79E+08	179035001	2.15038	0.373671	BD	CFAP44	NC_056073.1	19135001	19155001
NC_056080.1	35450001	35470001	3.99167	0.422454	BD	CFAP47	NC_056073.1	19140001	19160001
NC_056080.1	35445001	35465001	4.25208	0.415058	BD	CFAP47	NC_056077.1	33500001	33520001
NC_056080.1	35455001	35475001	2.5071	0.405319	BD	CFAP47	NC_056077.1	33535001	33555001
NC_056080.1	35440001	35460001	3.72393	0.392537	BD	CFAP47	NC_056077.1	33540001	33560001
NC_056055.1	1.35E+08	135190001	3.83378	0.297097	BD	CHN1	NC_056077.1	33545001	33565001
NC_056078.1	11575001	11595001	3.59872	0.341972	BD	CHRM3	NC_056077.1	33550001	33570001
NC_056078.1	11570001	11590001	2.54023	0.32901	BD	CHRM3	NC_056077.1	33555001	33575001
NC_056072.1	7845001	7865001	2.42131	0.292617	BD	CLASP2	NC_056054.1	249490001	249510001
NC_056080.1	55520001	55540001	2.18875	0.349548	BD	CLCN5	NC_056063.1	75990001	76010001
NC_056080.1	55510001	55530001	2.31127	0.322693	BD	CLCN5	NC_056063.1	75995001	76015001
NC_056080.1	55515001	55535001	2.42194	0.308426	BD	CLCN5	NC_056063.1	76000001	76020001
NC_056056.1	2.07E+08	207240001	2.39851	0.305033	BD	CLEC4A	NC_056067.1	25430001	25450001
NC_056077.1	33500001	33520001	7.61608	0.554959	BD	CLIP2	NC_056067.1	25435001	25455001
NC_056077.1	33545001	33565001	4.03323	0.524996	BD	CLIP2	NC_056067.1	25440001	25460001
NC_056077.1	33550001	33570001	2.76311	0.479996	BD	CLIP2	NC_056067.1	25445001	25465001
NC_056077.1	33540001	33560001	7.23888	0.439236	BD	CLIP2	NC_056067.1	25450001	25470001
NC_056077.1	33535001	33555001	13.1795	0.417851	BD	CLIP2	NC_056067.1	25455001	25475001
NC_056077.1	26545001	26565001	2.33648	0.527247	BD	CLN3	NC_056075.1	23385001	23405001
NC_056077.1	26550001	26570001	2.32783	0.447446	BD	CLN3	NC_056075.1	23390001	23410001
NC_056077.1	26540001	26560001	4.15807	0.662763	BD	CLN3;LOC10112694	NC_056075.1	23395001	23415001
NC_056074.1	15945001	15965001	2.78125	0.313402	BD	CLNS1A	NC_056075.1	23410001	23430001
NC_056054.1	2.49E+08	249510001	7.48327	0.647187	BD	CLSTN2	NC_056075.1	23415001	23435001
NC_056054.1	2.49E+08	249475001	2.23549	0.543251	BD	CLSTN2	NC_056058.1	63815001	63835001
NC_056054.1	2.49E+08	249515001	2.31441	0.523059	BD	CLSTN2	NC_056058.1	63820001	63840001
NC_056061.1	15550001	15570001	5.35309	0.33803	BD	CLVS2	NC_056056.1	146160001	146180001
NC_056061.1	15545001	15565001	2.67057	0.301979	BD	CLVS2	NC_056056.1	146165001	146185001
NC_056054.1	1.65E+08	165035001	2.13528	0.337953	BD	CMSS1;FILIP1L	NC_056068.1	8965001	8985001
NC_056054.1	1.65E+08	165030001	2.49578	0.318344	BD	CMSS1;FILIP1L	NC_056068.1	9500001	9520001
NC_056075.1	23385001	23405001	4.83771	0.331376	BD	CNNM2	NC_056068.1	9505001	9525001
NC_056056.1	1.49E+08	149505001	5.63141	0.333402	BD	CNOT2	NC_056068.1	9510001	9530001
NC_056056.1	1.49E+08	149510001	5.66	0.325027	BD	CNOT2	NC_056068.1	9800001	9820001
NC_056056.1	1.49E+08	149495001	4.6884	0.322727	BD	CNOT2	NC_056057.1	112050001	112070001
NC_056056.1	1.49E+08	149450001	3.34339	0.313269	BD	CNOT2	NC_056057.1	112055001	112075001
NC_056056.1	1.49E+08	149480001	4.6265	0.312404	BD	CNOT2	NC_056057.1	50060001	50080001
NC_056056.1	1.49E+08	149515001	3.86765	0.310537	BD	CNOT2	NC_056057.1	50065001	50085001
NC_056056.1	1.49E+08	149455001	2.72821	0.310524	BD	CNOT2	NC_056057.1	50070001	50090001
NC_056056.1	1.49E+08	149445001	2.84455	0.309944	BD	CNOT2	NC_056057.1	50075001	50095001
NC_056056.1	1.49E+08	149500001	3.50635	0.307918	BD	CNOT2	NC_056057.1	50080001	50100001
NC_056056.1	1.49E+08	149470001	2.60639	0.304658	BD	CNOT2	NC_056057.1	50085001	50105001
NC_056056.1	1.49E+08	149460001	2.62654	0.300832	BD	CNOT2	NC_056062.1	4270001	4290001
NC_056056.1	1.49E+08	149490001	3.73091	0.300731	BD	CNOT2	NC_056062.1	4275001	4295001
NC_056056.1	1.49E+08	149465001	2.60763	0.292075	BD	CNOT2	NC_056062.1	4295001	4315001
NC_056056.1	1.49E+08	149485001	2.8953	0.291893	BD	CNOT2	NC_056062.1	4300001	4320001
NC_056068.1	8720001	8740001	14.8854	0.35668	BD	CNTN5	NC_056054.1	62915001	62935001
NC_056068.1	8715001	8735001	9.79084	0.339112	BD	CNTN5	NC_056055.1	120350001	120370001
NC_056068.1	8725001	8745001	12.3747	0.317527	BD	CNTN5	NC_056055.1	120355001	120375001
NC_056058.1	37060001	37080001	6.70475	0.33867	BD	COL23A1	NC_056055.1	120360001	120380001
NC_056054.1	62915001	62935001	2.19481	0.309328	BD	COL24A1	NC_056055.1	120370001	120390001
NC_056059.1	16465001	16485001	3.45539	0.351738	BD	COL25A1	NC_056055.1	120375001	120395001
NC_056059.1	16455001	16475001	5.03136	0.335293	BD	COL25A1	NC_056055.1	120380001	120400001

NC_056059.1	16460001	16480001	4.06982	0.301748	BD	COL25A1	NC_056055.1	120385001	120405001
NC_056059.1	16430001	16450001	3.32409	0.30016	BD	COL25A1	NC_056055.1	120390001	120410001
NC_056077.1	35640001	35660001	4.11985	0.368646	BD	COL26A1	NC_056063.1	84355001	84375001
NC_056077.1	35650001	35670001	4.0299	0.316632	BD	COL26A1	NC_056063.1	84360001	84380001
NC_056077.1	35635001	35655001	2.53572	0.31514	BD	COL26A1	NC_056054.1	3760001	3780001
NC_056077.1	35645001	35665001	3.70115	0.308039	BD	COL26A1	NC_056058.1	35405001	35425001
NC_056055.1	1.2E+08	120400001	8.49558	0.809906	BD	COL3A1	NC_056062.1	44560001	44580001
NC_056055.1	1.2E+08	120405001	8.15388	0.807423	BD	COL3A1	NC_056062.1	44565001	44585001
NC_056055.1	1.2E+08	120395001	7.72264	0.802796	BD	COL3A1	NC_056062.1	44570001	44590001
NC_056055.1	1.2E+08	120390001	3.05705	0.735703	BD	COL3A1	NC_056062.1	44575001	44595001
NC_056055.1	1.2E+08	120410001	2.18107	0.708724	BD	COL3A1	NC_056062.1	44580001	44600001
NC_056080.1	1.27E+08	126820001	2.22505	0.404387	BD	COL4A6	NC_056062.1	44585001	44605001
NC_056080.1	1.27E+08	126825001	2.12624	0.374449	BD	COL4A6	NC_056058.1	5855001	5875001
NC_056058.1	35320001	35340001	8.53139	0.393967	BD	COMMD10	NC_056058.1	5860001	5880001
NC_056058.1	35315001	35335001	6.11142	0.365238	BD	COMMD10	NC_056057.1	68625001	68645001
NC_056058.1	35325001	35345001	3.88109	0.360743	BD	COMMD10	NC_056057.1	68630001	68650001
NC_056058.1	35310001	35330001	3.94506	0.354232	BD	COMMD10	NC_056057.1	68645001	68665001
NC_056054.1	2.59E+08	259075001	2.11308	0.30941	BD	CPNE4	NC_056057.1	68655001	68675001
NC_056073.1	10845001	10865001	14.063	0.305131	BD	CPNE5;PPIL1	NC_056057.1	68660001	68680001
NC_056054.1	1.64E+08	163815001	2.1121	0.301612	BD	CPOX	NC_056056.1	102420001	102440001
NC_056054.1	1.64E+08	163830001	2.936	0.299541	BD	CPOX	NC_056056.1	102425001	102445001
NC_056071.1	54605001	54625001	3.45439	0.413932	BD	CPSF2;NDUFB1	NC_056056.1	102430001	102450001
NC_056071.1	54615001	54635001	2.17167	0.409838	BD	CPSF2;NDUFB1	NC_056057.1	69260001	69280001
NC_056071.1	54610001	54630001	3.48907	0.399656	BD	CPSF2;NDUFB1	NC_056069.1	4965001	4985001
NC_056057.1	68660001	68680001	6.38889	0.501877	BD	CPVL	NC_056069.1	4970001	4990001
NC_056057.1	68655001	68675001	11.8074	0.474884	BD	CPVL	NC_056069.1	4975001	4995001
NC_056057.1	68645001	68665001	27.9466	0.375644	BD	CPVL	NC_056069.1	4980001	5000001
NC_056057.1	68625001	68645001	4.31012	0.322925	BD	CPVL	NC_056066.1	47890001	47910001
NC_056056.1	1.3E+08	130135001	2.34254	0.366463	BD	CRADD	NC_056066.1	47895001	47915001
NC_056056.1	1.3E+08	130140001	2.21606	0.358921	BD	CRADD	NC_056066.1	47900001	47920001
NC_056056.1	1.3E+08	130095001	3.21477	0.297633	BD	CRADD	NC_056066.1	47905001	47925001
NC_056057.1	69025001	69045001	13.6104	0.308921	BD	CREB5	NC_056066.1	47910001	47930001
NC_056057.1	69020001	69040001	8.54763	0.306491	BD	CREB5	NC_056059.1	86190001	86210001
NC_056069.1	4970001	4990001	5.52867	0.551475	BD	CREBRF	NC_056059.1	86195001	86215001
NC_056069.1	4975001	4995001	3.56922	0.54495	BD	CREBRF	NC_056059.1	86200001	86220001
NC_056069.1	4980001	5000001	2.25743	0.527208	BD	CREBRF	NC_056059.1	86205001	86225001
NC_056069.1	4965001	4985001	3.23165	0.502049	BD	CREBRF	NC_056062.1	44185001	44205001
NC_056080.1	6765001	6785001	3.38451	0.348173	BD	CRLF2	NC_056055.1	143960001	143980001
NC_056080.1	6770001	6790001	2.5202	0.330603	BD	CRLF2	NC_056055.1	143965001	143985001
NC_056080.1	6760001	6780001	3.25426	0.307258	BD	CRLF2	NC_056055.1	144010001	144030001
NC_056064.1	17870001	17890001	5.1025	0.400397	BD	CRLF3	NC_056055.1	144015001	144035001
NC_056064.1	17875001	17895001	4.10495	0.378128	BD	CRLF3	NC_056055.1	144080001	144100001
NC_056064.1	17865001	17885001	3.89691	0.358818	BD	CRLF3	NC_056055.1	144085001	144105001
NC_056064.1	17880001	17900001	2.43724	0.31191	BD	CRLF3	NC_056055.1	144090001	144110001
NC_056066.1	47910001	47930001	7.51935	0.328426	BD	CRLS1;LRRN4	NC_056056.1	112765001	112785001
NC_056066.1	47905001	47925001	6.3112	0.297736	BD	CRLS1;LRRN4	NC_056056.1	51885001	51905001
NC_056068.1	74810001	74830001	6.42446	0.444878	BD	CRY2	NC_056056.1	51890001	51910001
NC_056068.1	74805001	74825001	5.6689	0.425466	BD	CRY2	NC_056056.1	51895001	51915001
NC_056068.1	74825001	74845001	2.60988	0.368322	BD	CRY2	NC_056069.1	61520001	61540001
NC_056068.1	74800001	74820001	2.68208	0.365449	BD	CRY2	NC_056057.1	52095001	52115001
NC_056068.1	74815001	74835001	2.52607	0.346641	BD	CRY2	NC_056057.1	52100001	52120001
NC_056068.1	74820001	74840001	2.43719	0.33661	BD	CRY2	NC_056057.1	52120001	52140001
NC_056068.1	74835001	74855001	4.20512	0.414167	BD	CRY2;MAPK8IP1	NC_056057.1	52125001	52145001
NC_056068.1	74830001	74850001	3.71186	0.40566	BD	CRY2;MAPK8IP1	NC_056057.1	52130001	52150001
NC_056068.1	74840001	74860001	2.6134	0.388647	BD	CRY2;MAPK8IP1	NC_056057.1	52135001	52155001
NC_056059.1	86200001	86220001	5.60181	0.650656	BD	CSN2	NC_056066.1	30750001	30770001
NC_056059.1	86205001	86225001	6.29659	0.556494	BD	CSN2	NC_056066.1	30755001	30775001
NC_056059.1	86195001	86215001	2.68635	0.537898	BD	CSN2	NC_056066.1	30760001	30780001
NC_056059.1	86210001	86230001	2.70799	0.334409	BD	CSN2	NC_056066.1	30765001	30785001
NC_056056.1	1.13E+08	112785001	2.14935	0.386861	BD	CSR2	NC_056068.1	15715001	15735001
NC_056056.1	1.13E+08	112790001	2.90205	0.335833	BD	CSR2	NC_056068.1	15720001	15740001
NC_056056.1	51875001	51895001	5.04405	0.308206	BD	CTNNA2	NC_056068.1	15725001	15745001
NC_056056.1	51870001	51890001	4.05818	0.308168	BD	CTNNA2	NC_056068.1	15730001	15750001
NC_056078.1	21660001	21680001	2.52445	0.357421	BD	CTNNA3	NC_056068.1	15735001	15755001
NC_056078.1	21670001	21690001	5.44581	0.347887	BD	CTNNA3	NC_056068.1	15740001	15760001
NC_056078.1	21665001	21685001	5.31798	0.325271	BD	CTNNA3	NC_056068.1	15745001	15765001
NC_056078.1	21680001	21700001	6.19658	0.296807	BD	CTNNA3	NC_056068.1	15750001	15775001
NC_056078.1	21675001	21695001	5.98618	0.295031	BD	CTNNA3	NC_056068.1	15760001	15780001
NC_056066.1	30660001	30680001	3.83925	0.405614	BD	CUBN	NC_056068.1	15825001	15845001
NC_056066.1	30665001	30685001	3.49171	0.371976	BD	CUBN	NC_056068.1	15830001	15850001
NC_056066.1	30655001	30675001	2.79121	0.408752	BD	CUBN;RSU1	NC_056068.1	15835001	15855001
NC_056068.1	15835001	15855001	2.85456	0.557187	BD	CWF19L2	NC_056068.1	15840001	15860001
NC_056068.1	15830001	15850001	2.88697	0.527579	BD	CWF19L2	NC_056068.1	15700001	15720001
NC_056068.1	15825001	15845001	2.33228	0.498747	BD	CWF19L2	NC_056068.1	15705001	15725001

NC_056068.1	15730001	15750001	7.05065	0.420791	BD	CWF19L2	NC_056080.1	37130001	37150001
NC_056068.1	15735001	15755001	6.19616	0.386881	BD	CWF19L2	NC_056080.1	37135001	37155001
NC_056068.1	15725001	15745001	4.19508	0.369338	BD	CWF19L2	NC_056080.1	37140001	37160001
NC_056068.1	15720001	15740001	2.6922	0.365619	BD	CWF19L2	NC_056080.1	37145001	37165001
NC_056068.1	15740001	15760001	4.92787	0.355713	BD	CWF19L2	NC_056058.1	66590001	66610001
NC_056060.1	57310001	57330001	2.39843	0.425611	BD	CYP19	NC_056058.1	66595001	66615001
NC_056056.1	1.81E+08	181345001	5.10741	0.322833	BD	CYTH4	NC_056058.1	66600001	66620001
NC_056054.1	1.31E+08	130530001	2.34283	0.346461	BD	CYYR1	NC_056056.1	218940001	218960001
NC_056063.1	46925001	46945001	2.3163	0.335303	BD	DACH1	NC_056056.1	181315001	181335001
NC_056063.1	46855001	46875001	20.4571	0.307459	BD	DACH1	NC_056056.1	181320001	181340001
NC_056059.1	25185001	25205001	2.21027	0.350441	BD	DAPP1	NC_056056.1	181325001	181345001
NC_056056.1	2445001	2465001	2.3109	0.2972	BD	DBH	NC_056063.1	47120001	47140001
NC_056067.1	14315001	14335001	2.96515	0.360458	BD	DBNDD1;GAS8	NC_056063.1	47125001	47145001
NC_056067.1	14305001	14325001	7.2381	0.352456	BD	DBNDD1;GAS8;LOC	NC_056063.1	47130001	47150001
NC_056067.1	14310001	14330001	4.62089	0.332245	BD	DBNDD1;GAS8;LOC	NC_056063.1	47135001	47155001
NC_056067.1	14295001	14315001	8.9156	0.340447	BD	DBNDD1;LOC10111	NC_056055.1	230040001	230060001
NC_056067.1	14290001	14310001	6.46024	0.337538	BD	DBNDD1;LOC10111	NC_056055.1	230045001	230065001
NC_056067.1	14300001	14320001	8.93196	0.333441	BD	DBNDD1;LOC10111	NC_056067.1	14315001	14335001
NC_056056.1	1.42E+08	141570001	2.55838	0.305519	BD	DBX2	NC_056067.1	14305001	14325001
NC_056072.1	49360001	49380001	3.95343	0.342321	BD	DCAF1	NC_056067.1	14310001	14330001
NC_056072.1	49370001	49390001	3.09392	0.327853	BD	DCAF1	NC_056067.1	14290001	14310001
NC_056072.1	49365001	49385001	3.20919	0.315631	BD	DCAF1	NC_056067.1	14295001	14315001
NC_056070.1	3340001	3360001	2.30125	0.291733	BD	DCHS2	NC_056067.1	14300001	14320001
NC_056070.1	7775001	7795001	2.60212	0.405686	BD	DCLK2	NC_056056.1	141550001	141570001
NC_056054.1	62385001	62405001	2.12283	0.313028	BD	DDAH1	NC_056070.1	3400001	3420001
NC_056054.1	62415001	62435001	2.47832	0.298216	BD	DDAH1	NC_056070.1	3405001	3425001
NC_056054.1	62425001	62445001	2.47023	0.294452	BD	DDAH1	NC_056070.1	7835001	7855001
NC_056054.1	62410001	62430001	2.3346	0.292052	BD	DDAH1	NC_056072.1	47745001	47765001
NC_056057.1	6185001	6205001	4.07927	0.302501	BD	DDC	NC_056072.1	47750001	47770001
NC_056060.1	63775001	63795001	5.18297	0.440934	BD	DDHD1	NC_056072.1	47755001	47775001
NC_056060.1	63770001	63790001	4.81088	0.419196	BD	DDHD1	NC_056072.1	47760001	47780001
NC_056060.1	63765001	63785001	4.16596	0.407067	BD	DDHD1	NC_056072.1	47765001	47785001
NC_056060.1	63780001	63800001	3.1879	0.338832	BD	DDHD1	NC_056074.1	36395001	36415001
NC_056079.1	32505001	32525001	7.48215	0.447114	BD	DDHD2;NSD3;PLPP5	NC_056079.1	32505001	32525001
NC_056054.1	1.14E+08	114210001	2.36643	0.529254	BD	DDR2	NC_056062.1	15685001	15705001
NC_056054.1	1.14E+08	114205001	2.34182	0.503056	BD	DDR2	NC_056056.1	183985001	184005001
NC_056054.1	1.14E+08	114200001	2.11201	0.479484	BD	DDR2	NC_056056.1	183990001	184010001
NC_056054.1	1.14E+08	114325001	2.5697	0.346833	BD	DDR2	NC_056056.1	183995001	184015001
NC_056054.1	1.14E+08	114295001	2.54732	0.335973	BD	DDR2	NC_056072.1	43675001	43695001
NC_056054.1	1.14E+08	114335001	2.16887	0.33233	BD	DDR2	NC_056072.1	43680001	43700001
NC_056080.1	21375001	21395001	2.64333	0.33802	BD	DDX53	NC_056062.1	94205001	94225001
NC_056068.1	29110001	29130001	3.08897	0.314861	BD	DDX6	NC_056056.1	199565001	199585001
NC_056068.1	29105001	29125001	3.14463	0.311408	BD	DDX6	NC_056068.1	75265001	75285001
NC_056068.1	29100001	29120001	2.56331	0.303039	BD	DDX6	NC_056068.1	75270001	75290001
NC_056067.1	14280001	14300001	2.83681	0.417652	BD	DEF8;LOC101113004	NC_056068.1	75275001	75295001
NC_056067.1	14250001	14270001	2.67347	0.332133	BD	DEF8;MC1R	NC_056065.1	25710001	25730001
NC_056056.1	12185001	12205001	3.90705	0.650668	BD	DENND1A	NC_056068.1	21950001	21970001
NC_056056.1	12190001	12210001	2.87276	0.643718	BD	DENND1A	NC_056068.1	21955001	21975001
NC_056056.1	12180001	12200001	2.6195	0.529849	BD	DENND1A	NC_056068.1	21995001	22015001
NC_056062.1	94205001	94225001	4.56446	0.410358	BD	DEPTOR;DSCC1	NC_056074.1	11100001	11120001
NC_056062.1	94210001	94230001	2.91986	0.317361	BD	DEPTOR;DSCC1	NC_056074.1	11105001	11125001
NC_056058.1	11110001	11130001	2.41366	0.400326	BD	DHPS;FBXW9;GNG1	NC_056074.1	11110001	11130001
NC_056058.1	11120001	11140001	2.42073	0.44339	BD	DHPS;MAN2B1;WDF	NC_056074.1	11115001	11135001
NC_056058.1	11115001	11135001	2.21554	0.407332	BD	DHPS;WDR83;WDR8	NC_056074.1	11120001	11140001
NC_056075.1	44815001	44835001	2.17459	0.352638	BD	DHX32;LOC1011161	NC_056074.1	11125001	11145001
NC_056054.1	28440001	28460001	3.68831	0.552359	BD	DIO1	NC_056080.1	63340001	63360001
NC_056054.1	28445001	28465001	11.3445	0.491865	BD	DIO1;HSPB11	NC_056076.1	38490001	38510001
NC_056065.1	25710001	25730001	2.52526	0.391506	BD	DISP1	NC_056076.1	38495001	38515001
NC_056065.1	25715001	25735001	2.66072	0.365691	BD	DISP1	NC_056080.1	30935001	30955001
NC_056068.1	21950001	21970001	2.45323	0.390215	BD	DIXDC1	NC_056080.1	30940001	30960001
NC_056068.1	21955001	21975001	2.37298	0.376527	BD	DIXDC1	NC_056080.1	30945001	30965001
NC_056068.1	21995001	22015001	2.47396	0.301363	BD	DIXDC1	NC_056080.1	30950001	30970001
NC_056074.1	11110001	11130001	2.8876	0.388793	BD	DLG2	NC_056080.1	31710001	31730001
NC_056074.1	11105001	11125001	2.73377	0.382091	BD	DLG2	NC_056080.1	31715001	31735001
NC_056074.1	11100001	11120001	2.18696	0.361268	BD	DLG2	NC_056080.1	31720001	31740001
NC_056074.1	11115001	11135001	4.61152	0.320351	BD	DLG2	NC_056080.1	32265001	32285001
NC_056080.1	30950001	30970001	3.77248	0.518824	BD	DMD	NC_056072.1	43200001	43220001
NC_056080.1	30940001	30960001	4.8979	0.508557	BD	DMD	NC_056072.1	43205001	43225001
NC_056080.1	30945001	30965001	4.34482	0.507051	BD	DMD	NC_056060.1	82250001	82270001
NC_056080.1	30955001	30975001	2.09896	0.470471	BD	DMD	NC_056057.1	63605001	63625001
NC_056080.1	32265001	32285001	2.33413	0.443009	BD	DMD	NC_056057.1	63610001	63630001
NC_056080.1	32270001	32290001	2.27572	0.404117	BD	DMD	NC_056057.1	63615001	63635001
NC_056080.1	30935001	30955001	3.34623	0.376537	BD	DMD	NC_056057.1	63620001	63640001
NC_056080.1	32315001	32335001	10.2727	0.352415	BD	DMD	NC_056057.1	63660001	63680001

NC_056080.1	32310001	32330001	4.08095	0.342054	BD	DMD	NC_056057.1	63665001	63685001
NC_056080.1	32305001	32325001	2.37187	0.328523	BD	DMD	NC_056057.1	63670001	63690001
NC_056080.1	32110001	32130001	3.34957	0.324476	BD	DMD	NC_056057.1	63685001	63705001
NC_056080.1	32115001	32135001	8.05915	0.322104	BD	DMD	NC_056062.1	82440001	82460001
NC_056064.1	30375001	30395001	11.5125	0.430233	BD	DNAH9	NC_056062.1	82445001	82465001
NC_056064.1	30360001	30380001	3.03907	0.413873	BD	DNAH9	NC_056062.1	82450001	82470001
NC_056064.1	30380001	30400001	3.55468	0.369536	BD	DNAH9	NC_056062.1	82455001	82475001
NC_056064.1	30265001	30285001	2.13681	0.318169	BD	DNAH9	NC_056062.1	82475001	82495001
NC_056064.1	30250001	30270001	2.50931	0.305881	BD	DNAH9	NC_056062.1	82485001	82505001
NC_056065.1	38735001	38755001	4.58713	0.410033	BD	DNM3	NC_056062.1	82495001	82515001
NC_056065.1	38730001	38750001	2.91947	0.369978	BD	DNM3	NC_056062.1	82500001	82520001
NC_056063.1	75325001	75345001	4.81169	0.290805	BD	DOCK9	NC_056058.1	56385001	56405001
NC_056054.1	78345001	78365001	4.42013	0.374242	BD	DPH5	NC_056068.1	27950001	27970001
NC_056054.1	78350001	78370001	3.43778	0.352157	BD	DPH5	NC_056068.1	27970001	27990001
NC_056054.1	78355001	78375001	3.37149	0.347056	BD	DPH5	NC_056068.1	27975001	27995001
NC_056054.1	78360001	78380001	2.41287	0.295208	BD	DPH5	NC_056068.1	27980001	28000001
NC_056060.1	29125001	29145001	12.4132	0.412588	BD	DPH6	NC_056068.1	27985001	28005001
NC_056060.1	29130001	29150001	5.53901	0.377053	BD	DPH6	NC_056068.1	27990001	28010001
NC_056060.1	29120001	29140001	8.96	0.36399	BD	DPH6	NC_056068.1	28005001	28025001
NC_056060.1	29115001	29135001	9.68487	0.321485	BD	DPH6	NC_056068.1	28045001	28065001
NC_056060.1	29135001	29155001	2.95996	0.321328	BD	DPH6	NC_056068.1	28050001	28070001
NC_056060.1	29110001	29130001	7.69836	0.300394	BD	DPH6	NC_056062.1	94200001	94220001
NC_056062.1	94200001	94220001	8.06635	0.442025	BD	DSCC1	NC_056061.1	21540001	21560001
NC_056062.1	94195001	94215001	6.25841	0.375764	BD	DSCC1	NC_056061.1	21555001	21575001
NC_056062.1	94190001	94210001	14.0281	0.353497	BD	DSCC1;TAF2	NC_056061.1	21560001	21580001
NC_056062.1	94180001	94200001	9.91452	0.342233	BD	DSCC1;TAF2	NC_056054.1	203775001	203795001
NC_056062.1	94185001	94205001	9.95512	0.335781	BD	DSCC1;TAF2	NC_056063.1	72370001	72390001
NC_056076.1	22585001	22605001	7.78096	0.309641	BD	DTNA	NC_056056.1	20390001	20410001
NC_056074.1	46345001	46365001	2.19991	0.32225	BD	DUSP8	NC_056056.1	20395001	20415001
NC_056076.1	49065001	49085001	2.45643	0.320444	BD	DYM	NC_056056.1	112905001	112925001
NC_056076.1	49070001	49090001	2.18624	0.319631	BD	DYM	NC_056080.1	62675001	62695001
NC_056076.1	49060001	49080001	2.25503	0.29417	BD	DYM	NC_056080.1	62680001	62700001
NC_056068.1	5145001	5165001	3.60524	0.367746	BD	DYNC2H1	NC_056080.1	62685001	62705001
NC_056068.1	5150001	5170001	4.55872	0.349282	BD	DYNC2H1	NC_056080.1	62690001	62710001
NC_056068.1	5155001	5175001	4.12364	0.318709	BD	DYNC2H1	NC_056080.1	62695001	62715001
NC_056080.1	62690001	62710001	12.1354	0.330603	BD	EDA	NC_056058.1	81560001	81580001
NC_056080.1	62685001	62705001	15.7542	0.320728	BD	EDA	NC_056058.1	81565001	81585001
NC_056080.1	62725001	62745001	6.28672	0.292966	BD	EDA	NC_056058.1	81570001	81590001
NC_056064.1	46550001	46570001	2.15201	0.551872	BD	EFCAB3	NC_056063.1	53625001	53645001
NC_056064.1	46540001	46560001	2.11728	0.52037	BD	EFCAB3	NC_056063.1	53630001	53650001
NC_056064.1	46535001	46555001	2.34305	0.504997	BD	EFCAB3	NC_056063.1	53635001	53655001
NC_056066.1	61930001	61950001	3.47961	0.397341	BD	EFCAB8;SUN5	NW_024599827.1	550001	570001
NC_056066.1	61925001	61945001	2.62703	0.360955	BD	EFCAB8;SUN5	NC_056062.1	22210001	22230001
NC_056080.1	43515001	43535001	2.31786	0.317599	BD	EFHC2	NC_056062.1	22195001	22215001
NC_056080.1	43495001	43515001	12.3507	0.312973	BD	EFHC2	NC_056062.1	22200001	22220001
NC_056080.1	43450001	43470001	2.62577	0.312475	BD	EFHC2	NC_056062.1	22205001	22225001
NC_056080.1	43455001	43475001	2.58278	0.310641	BD	EFHC2	NC_056072.1	29935001	29955001
NC_056080.1	43505001	43525001	10.9619	0.307102	BD	EFHC2	NC_056072.1	29930001	29950001
NC_056080.1	43500001	43520001	11.2695	0.304886	BD	EFHC2	NC_056057.1	61555001	61575001
NC_056080.1	43510001	43530001	6.07383	0.301552	BD	EFHC2	NC_056057.1	61560001	61580001
NC_056080.1	43485001	43505001	3.80088	0.294819	BD	EFHC2	NC_056057.1	61565001	61585001
NW_024599827.1	555001	575001	3.24433	0.53722	BD	EFL1	NC_056057.1	61570001	61590001
NW_024599827.1	550001	570001	3.53402	0.518301	BD	EFL1	NC_056057.1	61575001	61595001
NW_024599827.1	620001	640001	2.47312	0.362055	BD	EFL1	NC_056057.1	61580001	61600001
NC_056062.1	22225001	22245001	6.26333	0.644181	BD	EFR3A	NC_056057.1	61600001	61620001
NC_056062.1	22230001	22250001	2.5914	0.618603	BD	EFR3A	NC_056057.1	61605001	61625001
NC_056062.1	22210001	22230001	9.94023	0.596758	BD	EFR3A	NC_056055.1	242865001	242885001
NC_056062.1	22205001	22225001	7.74194	0.595501	BD	EFR3A;OC90	NC_056080.1	103860001	103880001
NC_056062.1	22200001	22220001	6.73656	0.553462	BD	EFR3A;OC90	NC_056072.1	32615001	32635001
NC_056064.1	44305001	44325001	9.55797	0.29963	BD	EFTUD2;LOC114116;	NC_056056.1	78030001	78050001
NC_056058.1	35815001	35835001	3.69565	0.37077	BD	EIF4E1B;SNCB	NC_056060.1	1525001	1545001
NC_056058.1	35820001	35840001	3.0295	0.383322	BD	EIF4E1B;SNCB;TSPA	NC_056060.1	1530001	1550001
NC_056079.1	32320001	32340001	2.21716	0.339408	BD	EIF4EBP1	NC_056060.1	1535001	1555001
NC_056077.1	41695001	41715001	3.00625	0.31603	BD	ELFN1	NC_056055.1	14065001	14085001
NC_056077.1	41690001	41710001	2.4138	0.301841	BD	ELFN1	NC_056055.1	14070001	14090001
NC_056056.1	1.66E+08	166090001	5.2562	0.351299	BD	ELK3	NC_056055.1	14080001	14100001
NC_056056.1	1.66E+08	166095001	4.39578	0.300311	BD	ELK3	NC_056076.1	46080001	46100001
NC_056057.1	61600001	61620001	3.00011	0.685883	BD	ELMO1	NC_056076.1	46085001	46105001
NC_056057.1	61555001	61575001	5.49891	0.440746	BD	ELMO1	NC_056054.1	158330001	158350001
NC_056057.1	61560001	61580001	6.40334	0.440657	BD	ELMO1	NC_056054.1	158335001	158355001
NC_056057.1	61565001	61585001	6.79397	0.436155	BD	ELMO1	NC_056064.1	39830001	39850001
NC_056057.1	61550001	61570001	4.30726	0.431744	BD	ELMO1	NC_056064.1	39835001	39855001
NC_056057.1	61570001	61590001	5.93433	0.378642	BD	ELMO1	NC_056064.1	39825001	39845001
NC_056057.1	61575001	61595001	7.41339	0.355071	BD	ELMO1	NC_056055.1	214045001	214065001



NC_056057.1	61580001	61600001	7.72681	0.34823	BD	ELMO1	NC_056055.1	214050001	214070001
NC_056068.1	14975001	14995001	2.52381	0.337186	BD	ENDOD1	NC_056055.1	214055001	214075001
NC_056073.1	19350001	19370001	2.59376	0.302639	BD	ENPP4;ENPP5	NC_056055.1	214060001	214080001
NC_056060.1	15250001	15450001	9.61911	0.564534	BD	EPB41L4A	NC_056055.1	214065001	214085001
NC_056060.1	1530001	1550001	7.6062	0.554517	BD	EPB41L4A	NC_056055.1	214070001	214090001
NC_056060.1	1535001	1555001	5.20801	0.527502	BD	EPB41L4A	NC_056055.1	214075001	214095001
NC_056060.1	1520001	1540001	5.47191	0.527226	BD	EPB41L4A	NC_056055.1	214080001	214100001
NC_056060.1	1700001	1720001	2.18087	0.320658	BD	EPB41L4A	NC_056055.1	214280001	214300001
NC_056060.1	1695001	1715001	2.20448	0.304389	BD	EPB41L4A	NC_056055.1	214290001	214310001
NC_056055.1	2.14E+08	214315001	2.24832	0.326824	BD	ERBB4	NC_056055.1	214295001	214315001
NC_056055.1	2.14E+08	214305001	2.23645	0.316718	BD	ERBB4	NC_056056.1	213710001	213730001
NC_056055.1	2.14E+08	214310001	2.33638	0.31431	BD	ERBB4	NC_056056.1	213715001	213735001
NC_056056.1	2.14E+08	213730001	3.58	0.4937	BD	ERC1	NC_056072.1	44985001	45005001
NC_056056.1	2.14E+08	213735001	4.55147	0.466079	BD	ERC1	NC_056072.1	44990001	45010001
NC_056056.1	2.14E+08	213725001	2.20307	0.418987	BD	ERC1	NC_056072.1	44995001	45015001
NC_056056.1	2.14E+08	213890001	2.13065	0.408983	BD	ERC1	NC_056054.1	3120001	3140001
NC_056056.1	2.14E+08	213895001	7.32822	0.386965	BD	ERC1	NC_056069.1	4835001	4855001
NC_056072.1	45115001	45135001	2.86286	0.375103	BD	ERC2	NC_056069.1	4840001	4860001
NC_056072.1	45120001	45140001	2.49847	0.362464	BD	ERC2	NC_056069.1	4845001	4865001
NC_056072.1	45110001	45130001	2.2175	0.326108	BD	ERC2	NC_056069.1	4850001	4870001
NC_056064.1	48060001	48080001	5.83708	0.581676	BD	ERN1	NC_056055.1	73940001	73960001
NC_056064.1	48080001	48100001	2.65229	0.458035	BD	ERN1;TEX2	NC_056055.1	73945001	73965001
NC_056060.1	11480001	11500001	3.80061	0.561906	BD	ERO1A	NC_056055.1	73895001	73915001
NC_056060.1	11485001	11505001	2.43058	0.544512	BD	ERO1A	NC_056055.1	73900001	73920001
NC_056060.1	11475001	11495001	4.44136	0.490177	BD	ERO1A	NC_056055.1	73905001	73925001
NC_056060.1	11470001	11490001	2.25192	0.38826	BD	ERO1A	NC_056064.1	48035001	48055001
NC_056056.1	2.01E+08	200620001	2.14105	0.309414	BD	ERP27	NC_056064.1	48060001	48080001
NC_056054.1	3165001	3185001	4.42378	0.649914	BD	ESPNL;KLHL30	NC_056064.1	48070001	48090001
NC_056054.1	3160001	3180001	2.97897	0.603212	BD	ESPNL;KLHL30	NC_056060.1	11470001	11490001
NC_056054.1	3155001	3175001	2.35475	0.575683	BD	ESPNL;KLHL30	NC_056060.1	11475001	11495001
NC_056060.1	85970001	85990001	2.29801	0.47274	BD	ESRRB	NC_056060.1	11480001	11500001
NC_056060.1	85965001	85985001	2.35293	0.451994	BD	ESRRB	NC_056060.1	11485001	11505001
NC_056060.1	85915001	85935001	2.15371	0.352775	BD	ESRRB	NC_056057.1	23045001	23065001
NC_056060.1	85880001	85900001	2.15154	0.314428	BD	ESRRB	NC_056057.1	23050001	23070001
NC_056060.1	85885001	85905001	2.2871	0.300317	BD	ESRRB	NC_056054.1	201910001	201930001
NC_056060.1	79105001	79125001	5.5082	0.714931	BD	EXD2	NC_056054.1	201915001	201935001
NC_056071.1	65400001	65420001	3.78618	0.323566	BD	EXOC3L4	NC_056054.1	201920001	201940001
NC_056071.1	65395001	65415001	3.76565	0.338569	BD	EXOC3L4;LBHD2	NC_056054.1	201925001	201945001
NC_056071.1	65390001	65410001	3.363	0.312967	BD	EXOC3L4;LBHD2	NC_056054.1	201930001	201950001
NC_056071.1	65405001	65425001	5.58253	0.380777	BD	EXOC3L4;LOC10560	NC_056054.1	201935001	201955001
NC_056071.1	65410001	65430001	7.14653	0.366207	BD	EXOC3L4;LOC10560	NC_056054.1	201945001	201965001
NC_056071.1	65415001	65435001	15.3643	0.293523	BD	EXOC3L4;LOC10560	NC_056054.1	201950001	201970001
NC_056065.1	41785001	41805001	6.99487	0.365308	BD	EXOSC10	NC_056056.1	62545001	62565001
NC_056065.1	41790001	41810001	5.14143	0.341881	BD	EXOSC10	NC_056056.1	62550001	62570001
NC_056065.1	41780001	41800001	8.92776	0.377152	BD	MTOR	NC_056056.1	62580001	62600001
NC_056059.1	36660001	36680001	4.46961	0.669265	BD	FAM13A	NC_056056.1	62585001	62605001
NC_056059.1	36665001	36685001	2.4816	0.5927	BD	FAM13A	NC_056056.1	62590001	62610001
NC_056059.1	36625001	36645001	2.88958	0.487096	BD	FAM13A	NC_056056.1	62595001	62615001
NC_056059.1	37970001	37990001	6.3803	0.490797	BD	FAM184B	NC_056071.1	65400001	65420001
NC_056059.1	37935001	37955001	6.82288	0.450637	BD	FAM184B	NC_056071.1	65405001	65425001
NC_056059.1	37965001	37985001	3.44385	0.403603	BD	FAM184B	NC_056071.1	65410001	65430001
NC_056059.1	37960001	37980001	2.33269	0.373577	BD	FAM184B	NC_056071.1	65415001	65435001
NC_056059.1	37905001	37925001	3.39467	0.35724	BD	FAM184B	NC_056065.1	41790001	41810001
NC_056080.1	1.3E+08	129810001	2.54243	0.393876	BD	FAM199X	NC_056065.1	41795001	41815001
NC_056080.1	1.3E+08	129805001	3.67546	0.461165	BD	FAM199X;SLC25A53	NC_056065.1	41800001	41820001
NC_056057.1	73645001	73665001	2.15818	0.30209	BD	FAM221A;STK31	NC_056080.1	81460001	81480001
NC_056056.1	2.02E+08	202505001	2.44927	0.390841	BD	FAM234B	NC_056080.1	81465001	81485001
NC_056056.1	2.02E+08	202510001	2.17875	0.380761	BD	FAM234B	NC_056080.1	81470001	81490001
NC_056059.1	13735001	13755001	7.09999	0.424778	BD	FAM241A	NC_056059.1	36620001	36640001
NC_056059.1	13710001	13730001	8.38909	0.421491	BD	FAM241A	NC_056059.1	36625001	36645001
NC_056059.1	13730001	13750001	6.4395	0.411956	BD	FAM241A	NC_056059.1	36660001	36680001
NC_056059.1	13740001	13760001	6.04404	0.411331	BD	FAM241A	NC_056059.1	36665001	36685001
NC_056059.1	13715001	13735001	7.13674	0.403464	BD	FAM241A	NC_056059.1	36690001	36710001
NC_056059.1	13725001	13745001	6.3284	0.403281	BD	FAM241A	NC_056059.1	36695001	36715001
NC_056059.1	13720001	13740001	5.43107	0.384168	BD	FAM241A	NC_056065.1	60350001	60370001
NC_056059.1	13705001	13725001	3.40833	0.370785	BD	FAM241A	NC_056065.1	60355001	60375001
NC_056059.1	13745001	13765001	3.97746	0.369429	BD	FAM241A	NC_056065.1	60360001	60380001
NC_056054.1	2.62E+08	262305001	3.54952	0.291035	BD	FAM3B;MX2	NC_056065.1	60365001	60385001
NC_056064.1	39580001	39600001	2.16667	0.311827	BD	FBXL20;MED1	NC_056065.1	60370001	60390001
NC_056064.1	39585001	39605001	2.10779	0.29976	BD	FBXL20;MED1	NC_056058.1	91090001	91110001
NC_056069.1	57745001	57765001	2.73287	0.329875	BD	FBXL7	NC_056058.1	91095001	91115001
NC_056055.1	2760001	2780001	16.8039	0.398955	BD	FBXW2	NC_056059.1	37905001	37925001
NC_056055.1	2765001	2785001	12.7313	0.377323	BD	FBXW2	NC_056071.1	25970001	25990001
NC_056055.1	2770001	2790001	7.16279	0.345863	BD	FBXW2	NC_056072.1	52820001	52840001

NC_056070.1	5405001	5425001	11.4054	0.539754	BD	FBXW7	NC_056072.1	52825001	52845001
NC_056070.1	5400001	5420001	6.53969	0.539179	BD	FBXW7	NC_056054.1	262225001	262245001
NC_056070.1	5395001	5415001	5.28333	0.522385	BD	FBXW7	NC_056054.1	262230001	262250001
NC_056070.1	5390001	5410001	2.65392	0.466161	BD	FBXW7	NC_056054.1	262235001	262255001
NC_056070.1	5410001	5430001	4.22831	0.40004	BD	FBXW7	NC_056054.1	262240001	262260001
NC_056070.1	58040001	58060001	2.68056	0.549501	BD	FBXW8;TESC	NC_056073.1	9525001	9545001
NC_056070.1	58035001	58055001	2.96376	0.520013	BD	FBXW8;TESC	NC_056073.1	9530001	9550001
NC_056054.1	1.13E+08	112995001	5.80093	0.379907	BD	FCGR3A	NC_056073.1	9535001	9555001
NC_056054.1	1.13E+08	113000001	5.45763	0.35045	BD	FCGR3A	NC_056056.1	185950001	185970001
NC_056054.1	1.13E+08	113010001	2.12903	0.335338	BD	FCGR3A	NC_056055.1	224815001	224835001
NC_056054.1	1.13E+08	113005001	2.45865	0.323633	BD	FCGR3A	NC_056055.1	224820001	224840001
NC_056057.1	88305001	88325001	2.36652	0.310288	BD	FEZF1	NC_056070.1	44685001	44705001
NC_056063.1	77695001	77715001	5.63669	0.550799	BD	FGF14	NC_056070.1	44690001	44710001
NC_056063.1	77700001	77720001	3.61054	0.544537	BD	FGF14	NC_056070.1	44695001	44715001
NC_056063.1	77705001	77725001	2.71707	0.493161	BD	FGF14	NC_056070.1	44700001	44720001
NC_056063.1	77690001	77710001	3.00182	0.450448	BD	FGF14	NC_056070.1	44705001	44725001
NC_056063.1	77710001	77730001	2.16507	0.448362	BD	FGF14	NC_056070.1	44710001	44730001
NC_056070.1	6520001	6540001	2.25302	0.340598	BD	FHPIA	NC_056070.1	44715001	44735001
NC_056070.1	6525001	6545001	2.14046	0.32413	BD	FHPIA	NC_056070.1	44720001	44740001
NC_056070.1	6515001	6535001	2.1869	0.31992	BD	FHPIA	NC_056070.1	44725001	44745001
NC_056070.1	6510001	6530001	2.34081	0.313947	BD	FHPIA	NC_056070.1	44730001	44755001
NC_056072.1	41200001	41220001	2.32376	0.306281	BD	FHIT	NC_056067.1	12470001	12490001
NC_056080.1	99055001	99075001	4.80316	0.491931	BD	FHL1	NC_056067.1	12490001	12510001
NC_056080.1	99040001	99060001	5.73787	0.425139	BD	FHL1	NC_056067.1	12495001	12515001
NC_056080.1	99060001	99080001	2.38581	0.413335	BD	FHL1	NC_056067.1	12500001	12520001
NC_056080.1	99030001	99050001	5.09218	0.354226	BD	FHL1	NC_056069.1	3880001	3900001
NC_056080.1	99025001	99045001	2.61885	0.340206	BD	FHL1	NC_056069.1	3885001	3905001
NC_056056.1	97190001	97210001	3.5065	0.41881	BD	FHL2	NC_056069.1	3890001	3910001
NC_056056.1	97185001	97205001	6.53788	0.355911	BD	FHL2	NC_056069.1	3895001	3915001
NC_056056.1	97180001	97200001	7.144	0.332133	BD	FHL2	NC_056069.1	3900001	3920001
NC_056076.1	21110001	21130001	3.85245	0.453078	BD	FHOD3	NC_056069.1	3905001	3925001
NC_056056.1	5735001	5755001	3.54574	0.311394	BD	FIBCD1	NC_056069.1	3910001	3930001
NC_056056.1	5740001	5760001	2.87113	0.298003	BD	FIBCD1	NC_056069.1	3915001	3935001
NC_056056.1	1.34E+08	134485001	2.80006	0.331299	BD	FIGNL2	NC_056070.1	5390001	5410001
NC_056056.1	1.34E+08	134490001	2.25646	0.307004	BD	FIGNL2	NC_056070.1	5395001	5415001
NC_056073.1	27400001	27420001	2.35294	0.383731	BD	FLOT1;IER3;MDC1;TUBB	NC_056070.1	5400001	5420001
NC_056073.1	27395001	27415001	2.50394	0.366576	BD	FLOT1;IER3;TUBB	NC_056070.1	5405001	5425001
NC_056073.1	27410001	27430001	5.38956	0.389508	BD	FLOT1;MDC1;TUBB	NC_056070.1	5410001	5430001
NC_056073.1	27405001	27425001	3.46093	0.385752	BD	FLOT1;MDC1;TUBB	NC_056070.1	58035001	58055001
NC_056080.1	87715001	87735001	3.24278	0.376434	BD	FMR1	NC_056070.1	58040001	58060001
NC_056080.1	87720001	87740001	2.68663	0.373034	BD	FMR1	NC_056054.1	112965001	112985001
NC_056060.1	75235001	75255001	2.59394	0.354709	BD	FNTB	NC_056069.1	8680001	8700001
NC_056056.1	76130001	76150001	2.93899	0.331841	BD	FOXN2	NC_056069.1	8685001	8705001
NC_056056.1	76135001	76155001	2.55262	0.314434	BD	FOXN2	NC_056069.1	8690001	8710001
NC_056072.1	30105001	30125001	2.93824	0.510832	BD	FOXP1	NC_056069.1	8695001	8715001
NC_056056.1	75470001	75490001	8.42123	0.509738	BD	FSHR	NC_056069.1	8700001	8720001
NC_056056.1	75465001	75485001	7.78908	0.480585	BD	FSHR	NC_056069.1	8705001	8725001
NC_056056.1	75475001	75495001	2.84699	0.398555	BD	FSHR	NC_056069.1	8715001	8735001
NC_056056.1	75460001	75480001	4.75875	0.393228	BD	FSHR	NC_056069.1	8720001	8740001
NC_056072.1	53290001	53315001	8.02144	0.415263	BD	FYCO1;XCR1	NC_056069.1	8735001	8755001
NC_056072.1	53300001	53320001	3.73469	0.349283	BD	FYCO1;XCR1	NC_056069.1	8745001	8765001
NC_056072.1	53290001	53310001	3.50631	0.334058	BD	FYCO1;XCR1	NC_056069.1	8750001	8770001
NC_056054.1	1.31E+08	131290001	14.5158	0.642705	BD	GABPA	NC_056069.1	8760001	8780001
NC_056054.1	1.31E+08	131285001	6.30001	0.63545	BD	GABPA	NC_056069.1	8780001	8800001
NC_056054.1	1.31E+08	131280001	3.19486	0.572157	BD	GABPA	NC_056069.1	8785001	8805001
NC_056054.1	1.31E+08	131300001	6.34417	0.474195	BD	GABPA	NC_056069.1	8790001	8810001
NC_056054.1	1.31E+08	131275001	2.21702	0.421417	BD	GABPA	NC_056069.1	8795001	8815001
NC_056080.1	83510001	83530001	8.90625	0.340983	BD	GABRA3	NC_056054.1	201315001	201335001
NC_056057.1	1.16E+08	116145001	4.86021	0.396743	BD	GALNT11;GALNTL5	NC_056055.1	220915001	220935001
NC_056060.1	79130001	79150001	2.1	0.565184	BD	GALNT16	NC_056072.1	41200001	41220001
NC_056060.1	79135001	79155001	2.72593	0.507918	BD	GALNT16	NC_056080.1	99055001	99075001
NC_056068.1	41125001	41145001	2.17883	0.509214	BD	GALNT18	NC_056072.1	43340001	43360001
NC_056057.1	1.16E+08	116135001	2.6359	0.562511	BD	GALNTL5	NC_056073.1	27400001	27420001
NC_056057.1	1.16E+08	116140001	4.25	0.518656	BD	GALNTL5	NC_056073.1	27395001	27415001
NC_056055.1	1.08E+08	107770001	4.16729	0.378935	BD	GALNTL6	NC_056073.1	27405001	27425001
NC_056055.1	1.08E+08	107850001	5.77852	0.371727	BD	GALNTL6	NC_056073.1	27410001	27430001
NC_056055.1	1.08E+08	107775001	6.79048	0.3546	BD	GALNTL6	NC_056056.1	76090001	76110001
NC_056055.1	1.08E+08	107765001	3.20551	0.353482	BD	GALNTL6	NC_056056.1	76095001	76115001
NC_056055.1	1.08E+08	107985001	2.16609	0.323446	BD	GALNTL6	NC_056060.1	99095001	99115001
NC_056055.1	1.08E+08	107980001	2.96428	0.310313	BD	GALNTL6	NC_056060.1	99120001	99140001
NC_056076.1	25020001	25040001	2.14474	0.349896	BD	GAREM1	NC_056060.1	99125001	99145001
NC_056076.1	25025001	25045001	2.46659	0.340447	BD	GAREM1	NC_056060.1	99130001	99150001
NC_056067.1	14355001	14375001	2.3624	0.386685	BD	GAS8	NC_056063.1	22240001	22260001
NC_056067.1	14320001	14340001	2.41126	0.399744	BD	GAS8;LOC101109035	NC_056072.1	30105001	30125001

NC_056067.1	7265001	7285001	5.29392	0.501949	BD	GCSH;PKD1L2	NC_056072.1	30110001	30130001
NC_056067.1	7260001	7280001	3.77083	0.470129	BD	GCSH;PKD1L2	NC_056057.1	55485001	55505001
NC_056058.1	63885001	63905001	2.77735	0.515257	BD	GEMIN5;MRPL22	NC_056057.1	55520001	55540001
NC_056058.1	63880001	63900001	2.77412	0.508616	BD	GEMIN5;MRPL22	NC_056057.1	55525001	55545001
NC_056066.1	26110001	26130001	15.4722	0.302442	BD	GJD4	NC_056057.1	55530001	55550001
NC_056054.1	2.47E+08	247335001	13.3889	0.474674	BD	GK5	NC_056066.1	27780001	27800001
NC_056054.1	2.47E+08	247340001	5.96184	0.457157	BD	GK5	NC_056066.1	27785001	27805001
NC_056054.1	2.47E+08	247345001	2.38636	0.430404	BD	GK5	NC_056066.1	27790001	27810001
NC_056054.1	2.47E+08	247330001	10.7921	0.419532	BD	GK5	NC_056066.1	27795001	27815001
NC_056057.1	80465001	80485001	2.57071	0.478175	BD	GLI3	NC_056066.1	28165001	28185001
NC_056055.1	52395001	52415001	3.88638	0.310291	BD	GLIPR2	NC_056066.1	28175001	28195001
NC_056054.1	69515001	69535001	12.755	0.61154	BD	GLMN	NC_056066.1	28180001	28200001
NC_056054.1	69510001	69530001	9.98334	0.524108	BD	GLMN	NC_056066.1	28185001	28205001
NC_056054.1	2.33E+08	232545001	6.49506	0.367339	BD	GMPS	NC_056066.1	28190001	28210001
NC_056054.1	2.33E+08	232540001	3.96946	0.343377	BD	GMPS	NC_056080.1	10735001	10755001
NC_056054.1	2.33E+08	232550001	8.46252	0.301415	BD	GMPS	NC_056054.1	31270001	31290001
NC_056055.1	1.53E+08	153205001	11.4587	0.389075	BD	GPD2	NC_056054.1	31275001	31295001
NC_056055.1	1.53E+08	153210001	9.21265	0.377228	BD	GPD2	NC_056054.1	31280001	31300001
NC_056055.1	1.53E+08	153130001	2.12622	0.366803	BD	GPD2	NC_056054.1	31285001	31305001
NC_056055.1	1.53E+08	153200001	7.32584	0.364071	BD	GPD2	NC_056054.1	31265001	31285001
NC_056055.1	1.53E+08	153195001	4.17257	0.333242	BD	GPD2	NC_056080.1	81165001	81185001
NC_056055.1	1.53E+08	153215001	4.89387	0.33318	BD	GPD2	NC_056080.1	81170001	81190001
NC_056079.1	6585001	6605001	5.28403	0.616285	BD	GPM6A	NC_056080.1	81190001	81210001
NC_056079.1	6590001	6610001	4.33032	0.615352	BD	GPM6A	NC_056054.1	131255001	131275001
NC_056079.1	6595001	6615001	3.29309	0.58782	BD	GPM6A	NC_056054.1	131260001	131280001
NC_056079.1	6580001	6600001	2.36631	0.564177	BD	GPM6A	NC_056054.1	131265001	131285001
NC_056079.1	6600001	6620001	2.76355	0.52483	BD	GPM6A	NC_056054.1	131270001	131290001
NC_056080.1	11945001	11965001	4.31932	0.403369	BD	GPM6B	NC_056054.1	131280001	131300001
NC_056080.1	11940001	11960001	8.69442	0.356708	BD	GPM6B	NC_056080.1	83505001	83525001
NC_056080.1	11935001	11955001	6.36109	0.355217	BD	GPM6B	NC_056080.1	83510001	83530001
NC_056054.1	2.18E+08	217960001	2.84245	0.389748	BD	GPR160;PHC3	NC_056058.1	70955001	70975001
NC_056054.1	2.18E+08	217965001	2.14699	0.334464	BD	GPR160;PHC3	NC_056055.1	242855001	242875001
NC_056055.1	1.45E+08	145065001	24.033	0.328012	BD	GRB14	NC_056055.1	155080001	155100001
NC_056055.1	1.45E+08	145070001	16.3448	0.323084	BD	GRB14	NC_056055.1	155085001	155105001
NC_056064.1	55525001	55545001	5.1791	0.392791	BD	GRB2	NC_056055.1	155090001	155110001
NC_056076.1	35230001	35250001	2.61237	0.298898	BD	GREB1L	NC_056055.1	155095001	155115001
NC_056068.1	2085001	2105001	43.0832	0.396508	BD	GRIA4	NC_056078.1	1795001	1815001
NC_056068.1	2080001	2100001	29.3485	0.393757	BD	GRIA4	NC_056055.1	107490001	107510001
NC_056068.1	2090001	2110001	23.9469	0.372844	BD	GRIA4	NC_056055.1	107495001	107515001
NC_056068.1	2110001	2130001	17.3429	0.364458	BD	GRIA4	NC_056070.1	45010001	45030001
NC_056068.1	2095001	2115001	18.1313	0.363985	BD	GRIA4	NC_056055.1	107910001	107930001
NC_056068.1	2155001	2175001	16.7857	0.363454	BD	GRIA4	NC_056059.1	15940001	15960001
NC_056068.1	2100001	2120001	15.5	0.350935	BD	GRIA4	NC_056059.1	15945001	15965001
NC_056068.1	2105001	2125001	13.3121	0.345509	BD	GRIA4	NC_056059.1	15925001	15945001
NC_056068.1	2160001	2180001	5.68447	0.297481	BD	GRIA4	NC_056059.1	15930001	15950001
NC_056054.1	1.27E+08	127135001	3.52519	0.371276	BD	GRIK1	NC_056059.1	15935001	15955001
NC_056054.1	1.27E+08	126850001	2.12796	0.35715	BD	GRIK1	NC_056060.1	6490001	6510001
NC_056054.1	1.27E+08	126815001	3.22368	0.33584	BD	GRIK1	NC_056067.1	7260001	7280001
NC_056054.1	1.27E+08	126830001	2.76254	0.30855	BD	GRIK1	NC_056067.1	7265001	7285001
NC_056054.1	1.27E+08	127130001	2.31484	0.30407	BD	GRIK1	NC_056054.1	95265001	95285001
NC_056055.1	21375001	21395001	3.18458	0.363254	BD	GRIN3A	NC_056067.1	34790001	34810001
NC_056055.1	21380001	21400001	2.65659	0.327054	BD	GRIN3A	NC_056067.1	34795001	34815001
NC_056055.1	21370001	21390001	2.19105	0.303875	BD	GRIN3A	NC_056067.1	34800001	34820001
NC_056056.1	1.53E+08	153045001	4.66872	0.368244	BD	GRIP1	NC_056067.1	34805001	34825001
NC_056056.1	1.53E+08	153050001	3.28712	0.326734	BD	GRIP1	NC_056069.1	32235001	32255001
NC_056056.1	1.53E+08	153040001	3.30899	0.309682	BD	GRIP1	NC_056068.1	82165001	82185001
NC_056072.1	19395001	19415001	2.25125	0.456517	BD	GRM7	NC_056057.1	80435001	80455001
NC_056072.1	19400001	19420001	2.63305	0.415584	BD	GRM7	NC_056057.1	80465001	80485001
NC_056057.1	92445001	92465001	2.56152	0.442263	BD	GRM8	NC_056057.1	80470001	80490001
NC_056057.1	92450001	92470001	2.42942	0.398955	BD	GRM8	NC_056057.1	80475001	80495001
NC_056077.1	25915001	25935001	4.59548	0.382909	BD	GSG1L	NC_056057.1	80480001	80500001
NC_056077.1	25910001	25930001	3.40262	0.345371	BD	GSG1L	NC_056054.1	69510001	69530001
NC_056077.1	25905001	25925001	3.37263	0.327816	BD	GSG1L	NC_056054.1	69515001	69535001
NC_056077.1	25920001	25940001	4.07127	0.317396	BD	GSG1L	NC_056080.1	12895001	12915001
NC_056057.1	76165001	76185001	2.20185	0.482834	BD	GTPBP10	NC_056070.1	48225001	48245001
NC_056057.1	76160001	76180001	3.1687	0.473717	BD	GTPBP10	NC_056056.1	131965001	131985001
NC_056057.1	76155001	76175001	2.56147	0.424316	BD	GTPBP10	NC_056054.1	232530001	232550001
NC_056077.1	750001	770001	11.3649	0.354358	BD	HBM;HBQ1;LOC101	NC_056072.1	48265001	48285001
NC_056077.1	755001	775001	6.41246	0.353851	BD	HBM;HBQ1;LOC101	NC_056071.1	55625001	55645001
NC_056077.1	760001	780001	3.95009	0.341466	BD	HBQ1;LOC10110879	NC_056071.1	55630001	55650001
NC_056077.1	765001	785001	2.54639	0.308706	BD	HBQ1;LUC7L	NC_056080.1	101300001	101320001
NC_056080.1	64990001	65010001	2.18447	0.354646	BD	HDAC8	NC_056080.1	101305001	101325001
NC_056057.1	79210001	79230001	5.74688	0.342664	BD	HECW1	NC_056063.1	66710001	66730001
NC_056057.1	79205001	79225001	5.93671	0.408345	BD	HECW1	NC_056063.1	66715001	66735001

NC_056057.1	79200001	79220001	4.39671	0.394208	BD	HECW1	NC_056063.1	66720001	66740001
NC_056057.1	79195001	79215001	2.92897	0.381309	BD	HECW1	NC_056063.1	68740001	68760001
NC_056057.1	79215001	79235001	2.17062	0.316914	BD	HECW1	NC_056055.1	153180001	153200001
NC_056059.1	36995001	37015001	15.7683	0.565956	BD	HERC6	NC_056055.1	153185001	153205001
NC_056059.1	37000001	37020001	17.1356	0.549693	BD	HERC6	NC_056055.1	153190001	153210001
NC_056059.1	37005001	37025001	16.0495	0.48643	BD	HERC6	NC_056079.1	6580001	6600001
NC_056061.1	12550001	12570001	2.88764	0.41942	BD	HINT3	NC_056079.1	6585001	6605001
NC_056070.1	63290001	63310001	15.1733	0.3169	BD	HNF1A	NC_056079.1	6590001	6610001
NC_056062.1	51790001	51810001	3.72096	0.349018	BD	HNF4G	NC_056079.1	6595001	6615001
NC_056062.1	51785001	51805001	3.53656	0.319378	BD	HNF4G	NC_056079.1	6600001	6620001
NC_056062.1	51780001	51800001	3.57311	0.314395	BD	HNF4G	NC_056054.1	217940001	217960001
NC_056080.1	1.01E+08	100550001	2.31332	0.310271	BD	HPR1	NC_056080.1	70375001	70395001
NC_056080.1	1.02E+08	102205001	2.92911	0.352393	BD	HS6ST2	NC_056054.1	237515001	237535001
NC_056080.1	1.02E+08	102200001	4.00404	0.326021	BD	HS6ST2	NC_056054.1	237530001	237550001
NC_056080.1	1.02E+08	102195001	3.55839	0.293534	BD	HS6ST2	NC_056054.1	237535001	237555001
NC_056054.1	28450001	28470001	5.68724	0.481652	BD	HSPB11	NC_056054.1	237540001	237560001
NC_056054.1	28455001	28475001	3.36171	0.450203	BD	HSPB11	NC_056054.1	237510001	237530001
NC_056055.1	2.45E+08	244680001	2.70167	0.318017	BD	HSPG2	NC_056076.1	35215001	35235001
NC_056055.1	2.45E+08	244675001	2.85663	0.291282	BD	HSPG2	NC_056068.1	1640001	1660001
NC_056074.1	22120001	22140001	2.35411	0.297866	BD	HTATIP2;LOC121817	NC_056068.1	1645001	1665001
NC_056068.1	24150001	24170001	3.86227	0.365679	BD	HTR3B	NC_056068.1	2080001	2100001
NC_056067.1	39485001	39505001	4.41644	0.35803	BD	HYDIN	NC_056068.1	2085001	2105001
NC_056067.1	39480001	39500001	3.83298	0.307834	BD	HYDIN	NC_056068.1	2090001	2110001
NC_056055.1	2.42E+08	242500001	3.64227	0.376627	BD	IFNLR1	NC_056068.1	2095001	2115001
NC_056055.1	2.42E+08	242505001	7.30412	0.477587	BD	IFNLR1;IL22RA1	NC_056068.1	2105001	2125001
NC_056057.1	57490001	57510001	4.77127	0.294386	BD	IFRD1	NC_056059.1	31865001	31885001
NC_056057.1	57465001	57485001	2.14385	0.305618	BD	IFRD1;LSMEM1	NC_056059.1	31870001	31890001
NC_056068.1	28925001	28945001	7.31328	0.313694	BD	IFT46;KMT2A;TMEM159	NC_056059.1	31875001	31895001
NC_056068.1	28930001	28950001	5.02013	0.324468	BD	IFT46;TMEM25;TTC3	NC_056059.1	31880001	31900001
NC_056060.1	12240001	12260001	3.96422	0.396397	BD	IGDCC3	NC_056059.1	31885001	31905001
NC_056060.1	12245001	12265001	4.89718	0.372353	BD	IGDCC3	NC_056059.1	31895001	31915001
NC_056060.1	12235001	12255001	4.83123	0.354659	BD	IGDCC3	NC_056059.1	31900001	31920001
NC_056060.1	12250001	12270001	3.74399	0.315851	BD	IGDCC3	NC_056059.1	31905001	31925001
NC_056054.1	2.37E+08	237400001	2.11136	0.317493	BD	IGSF10	NC_056059.1	31910001	31930001
NC_056074.1	23565001	23585001	2.22523	0.339514	BD	IGSF22;PTPN5	NC_056059.1	31915001	31935001
NC_056080.1	1.2E+08	119715001	8.78048	0.480057	BD	IL13RA2	NC_056059.1	31935001	31955001
NC_056080.1	1.2E+08	119720001	6.5	0.450633	BD	IL13RA2	NC_056059.1	31940001	31960001
NC_056080.1	1.2E+08	119705001	4.02695	0.443476	BD	IL13RA2	NC_056059.1	31945001	31965001
NC_056080.1	1.2E+08	119725001	2.90517	0.344025	BD	IL13RA2	NC_056059.1	31950001	31970001
NC_056056.1	99340001	99360001	2.4009	0.383945	BD	IL18R1;IL1RL1	NC_056059.1	31955001	31975001
NC_056055.1	2.42E+08	242510001	10.717	0.467903	BD	IL22RA1	NC_056059.1	32110001	32130001
NC_056055.1	74270001	74290001	12.4732	0.346327	BD	IL33	NC_056059.1	32115001	32135001
NC_056055.1	74265001	74285001	9.10828	0.331379	BD	IL33	NC_056067.1	50785001	50805001
NC_056055.1	74260001	74280001	5.67555	0.321556	BD	IL33	NC_056067.1	50795001	50815001
NC_056055.1	74255001	74275001	3.81937	0.314047	BD	IL33	NC_056055.1	21375001	21395001
NC_056068.1	61050001	61070001	2.40129	0.486764	BD	IMMP1L	NC_056055.1	21380001	21400001
NC_056057.1	58775001	58795001	3.18901	0.404117	BD	IMMP2L	NC_056056.1	152885001	152905001
NC_056057.1	58780001	58800001	3.10982	0.39746	BD	IMMP2L	NC_056074.1	6380001	6400001
NC_056057.1	58770001	58790001	3.05597	0.394656	BD	IMMP2L	NC_056074.1	6385001	6405001
NC_056057.1	59110001	59130001	3.76391	0.383654	BD	IMMP2L	NC_056072.1	19370001	19390001
NC_056057.1	59105001	59125001	2.96812	0.363637	BD	IMMP2L	NC_056072.1	19375001	19395001
NC_056057.1	58705001	58725001	3.66247	0.358357	BD	IMMP2L	NC_056072.1	19380001	19400001
NC_056057.1	59115001	59135001	4.16577	0.355858	BD	IMMP2L	NC_056072.1	19380001	19400001
NC_056057.1	58765001	58785001	2.37336	0.347386	BD	IMMP2L	NC_056057.1	92445001	92465001
NC_056057.1	58760001	58780001	2.3316	0.347157	BD	IMMP2L	NC_056057.1	92450001	92470001
NC_056057.1	59120001	59140001	6.76395	0.336153	BD	IMMP2L	NC_056057.1	92485001	92505001
NC_056057.1	58510001	58530001	2.17536	0.311046	BD	IMMP2L	NC_056057.1	92490001	92510001
NC_056057.1	58520001	58540001	3.56527	0.307629	BD	IMMP2L	NC_056057.1	92495001	92515001
NC_056057.1	58515001	58535001	2.80909	0.30577	BD	IMMP2L	NC_056057.1	92500001	92520001
NC_056057.1	58710001	58730001	3.3501	0.296693	BD	IMMP2L	NC_056067.1	11080001	11100001
NC_056057.1	58785001	58805001	2.4732	0.35015	BD	IMMP2L	NC_056077.1	25860001	25880001
NC_056079.1	14090001	14110001	9.46845	0.355623	BD	IRF2	NC_056077.1	25865001	25885001
NC_056079.1	14085001	14105001	12.2686	0.355441	BD	IRF2	NC_056055.1	165735001	165755001
NC_056079.1	14095001	14115001	5.41257	0.326067	BD	IRF2	NC_056055.1	165740001	165760001
NC_056079.1	14120001	14140001	3.23891	0.312595	BD	IRF2	NC_056055.1	165745001	165765001
NC_056056.1	1.89E+08	188890001	7.8421	0.376275	BD	ITPR2	NC_056055.1	165750001	165770001
NC_056056.1	1.89E+08	188895001	7.97413	0.375265	BD	ITPR2	NC_056079.1	25855001	25875001
NC_056056.1	1.89E+08	188900001	6.55986	0.372206	BD	ITPR2	NC_056079.1	25860001	25880001
NC_056056.1	1.89E+08	188905001	3.48252	0.350789	BD	ITPR2	NC_056079.1	25865001	25885001
NC_056056.1	1.89E+08	188885001	6.14852	0.338493	BD	ITPR2	NC_056073.1	15915001	15935001
NC_056056.1	1.89E+08	188880001	2.31055	0.309824	BD	ITPR2	NC_056073.1	15920001	15940001
NC_056068.1	28605001	28625001	2.68011	0.302053	BD	JAML;SCN2B	NC_056055.1	120940001	120960001
NC_056065.1	52035001	52055001	2.24297	0.347881	BD	KAZN	NC_056055.1	120945001	120965001
NC_056065.1	52040001	52060001	2.98191	0.313743	BD	KAZN	NC_056055.1	120995001	121015001
							NC_056055.1	121045001	121065001

NC_056068.1	1210001	1230001	11.7936	0.369328	BD	KBTBD3	NC_056055.1	121050001	121070001
NC_056068.1	1215001	1235001	11.9841	0.366661	BD	KBTBD3	NC_056055.1	121055001	121075001
NC_056068.1	1260001	1280001	9.43665	0.355992	BD	KBTBD3	NC_056058.1	66370001	66390001
NC_056068.1	1265001	1285001	8.33745	0.351598	BD	KBTBD3	NC_056057.1	79200001	79220001
NC_056068.1	1255001	1275001	8.08593	0.349455	BD	KBTBD3	NC_056057.1	79205001	79225001
NC_056068.1	1245001	1265001	6.91525	0.337473	BD	KBTBD3	NC_056057.1	79210001	79230001
NC_056068.1	1230001	1250001	8.42487	0.336855	BD	KBTBD3	NC_056057.1	79215001	79235001
NC_056068.1	1270001	1290001	4.19717	0.292552	BD	KBTBD3	NC_056059.1	36700001	36720001
NC_056056.1	1.04E+08	104420001	3.17827	0.358635	BD	KCNIP3	NC_056057.1	40460001	40480001
NC_056056.1	1.04E+08	104415001	2.75869	0.332446	BD	KCNIP3	NC_056057.1	40465001	40485001
NC_056056.1	1.04E+08	104425001	2.68726	0.32775	BD	KCNIP3	NC_056065.1	66400001	66420001
NC_056056.1	1.04E+08	104440001	6.73189	0.426945	BD	KCNIP3;PROM2	NC_056065.1	66405001	66425001
NC_056056.1	1.04E+08	104435001	5.23077	0.408429	BD	KCNIP3;PROM2	NC_056065.1	66410001	66430001
NC_056056.1	1.04E+08	104430001	2.9142	0.337287	BD	KCNIP3;PROM2	NC_056070.1	63290001	63310001
NC_056059.1	41675001	41695001	3.13478	0.471541	BD	KCNIP4	NC_056070.1	63295001	63315001
NC_056059.1	41680001	41700001	2.23751	0.408159	BD	KCNIP4	NC_056058.1	36985001	37005001
NC_056059.1	41420001	41440001	29.9263	0.325822	BD	KCNIP4	NC_056058.1	36990001	37010001
NC_056064.1	35060001	35080001	3.48631	0.330878	BD	KCNJ12	NC_056074.1	37570001	37590001
NC_056054.1	2.09E+08	208990001	2.82892	0.364219	BD	KCNMB2	NC_056074.1	37575001	37595001
NC_056054.1	2.09E+08	208995001	3.03553	0.351904	BD	KCNMB2	NC_056060.1	10420001	10440001
NC_056074.1	45460001	45480001	17.2875	0.517639	BD	KCNQ1	NC_056064.1	9090001	9110001
NC_056074.1	45465001	45485001	10.5878	0.450907	BD	KCNQ1	NC_056064.1	9095001	9115001
NC_056074.1	45450001	45470001	2.68224	0.36446	BD	KCNQ1	NC_056064.1	9075001	9095001
NC_056074.1	45470001	45490001	13.2414	0.319098	BD	KCNQ1	NC_056064.1	9080001	9100001
NC_056080.1	44090001	44110001	10.675	0.350642	BD	KDM6A	NC_056054.1	112955001	112975001
NC_056080.1	44095001	44115001	10.391	0.332032	BD	KDM6A	NC_056054.1	112950001	112970001
NC_056080.1	44100001	44120001	9.47975	0.318155	BD	KDM6A	NC_056055.1	246730001	246750001
NC_056062.1	19530001	19550001	2.6439	0.362558	BD	KHDRBS3	NC_056075.1	41840001	41860001
NC_056062.1	19535001	19555001	2.4374	0.35286	BD	KHDRBS3	NC_056059.1	116325001	116345001
NC_056062.1	19540001	19560001	2.36052	0.34801	BD	KHDRBS3	NC_056059.1	116330001	116350001
NC_056062.1	19525001	19545001	2.36502	0.342674	BD	KHDRBS3	NC_056059.1	116335001	116355001
NC_056068.1	63020001	63040001	13.9703	0.560983	BD	KIAA1549L	NC_056059.1	116340001	116360001
NC_056068.1	63015001	63035001	6.13777	0.51654	BD	KIAA1549L	NC_056059.1	116310001	116330001
NC_056068.1	63010001	63030001	2.23956	0.398035	BD	KIAA1549L	NC_056059.1	116315001	116335001
NC_056073.1	38965001	38985001	2.42634	0.358001	BD	KIF13A	NC_056059.1	116320001	116340001
NC_056073.1	38775001	38795001	2.29859	0.353559	BD	KIF13A	NC_056074.1	46100001	46120001
NC_056073.1	38970001	38990001	2.30134	0.342902	BD	KIF13A	NC_056057.1	57475001	57495001
NC_056073.1	38780001	38800001	2.46581	0.339765	BD	KIF13A	NC_056057.1	57480001	57500001
NC_056054.1	19415001	19435001	6.58	0.302785	BD	KIF2C	NC_056057.1	57485001	57505001
NC_056054.1	19420001	19440001	3.77988	0.29344	BD	KIF2C	NC_056057.1	57490001	57510001
NC_056074.1	27665001	27685001	2.29781	0.394635	BD	KIRREL3	NC_056060.1	12235001	12255001
NC_056074.1	27670001	27690001	2.55963	0.362977	BD	KIRREL3	NC_056060.1	12240001	12260001
NC_056074.1	27660001	27680001	2.61214	0.341808	BD	KIRREL3	NC_056060.1	12245001	12265001
NC_056074.1	27615001	27635001	6.89547	0.311676	BD	KIRREL3	NC_056060.1	12250001	12270001
NC_056066.1	40130001	40150001	2.19022	0.598676	BD	KIZ	NC_056060.1	12260001	12280001
NC_056063.1	49460001	49480001	2.28022	0.359388	BD	KLF12	NC_056056.1	225310001	225330001
NC_056063.1	49455001	49475001	2.1254	0.358715	BD	KLF12	NC_056058.1	9965001	9985001
NC_056063.1	49465001	49485001	2.41862	0.345185	BD	KLF12	NC_056058.1	9960001	9980001
NC_056063.1	49470001	49490001	2.39179	0.32916	BD	KLF12	NC_056058.1	9970001	9990001
NC_056066.1	44190001	44210001	2.11299	0.358464	BD	KLF6	NC_056058.1	9975001	9995001
NC_056066.1	44185001	44205001	2.11428	0.35183	BD	KLF6	NC_056057.1	58525001	58545001
NC_056059.1	58965001	58985001	2.22337	0.299456	BD	KLHL5	NC_056057.1	58530001	58550001
NC_056059.1	58970001	58990001	2.23619	0.294824	BD	KLHL5	NC_056057.1	58535001	58555001
NC_056068.1	28845001	28865001	6.8125	0.340532	BD	KMT2A	NC_056057.1	58705001	58725001
NC_056076.1	40450001	40470001	2.41059	0.420286	BD	LAMA1	NC_056057.1	58710001	58730001
NC_056076.1	40455001	40475001	2.24646	0.414779	BD	LAMA1	NC_056057.1	58715001	58735001
NC_056076.1	40470001	40490001	2.72969	0.401956	BD	LAMA1	NC_056057.1	58720001	58740001
NC_056076.1	40465001	40485001	2.99338	0.381521	BD	LAMA1	NC_056057.1	58725001	58745001
NC_056076.1	40460001	40480001	2.69325	0.373951	BD	LAMA1	NC_056057.1	58730001	58750001
NC_056076.1	40480001	40500001	2.11043	0.304225	BD	LAMA1	NC_056057.1	58735001	58755001
NC_056061.1	54795001	54815001	2.11258	0.325198	BD	LAMA2	NC_056057.1	58740001	58760001
NC_056057.1	50645001	50665001	2.29879	0.426336	BD	LAMB4	NC_056057.1	58745001	58765001
NC_056059.1	38065001	38085001	9.53751	0.767146	BD	LCORL	NC_056057.1	58750001	58770001
NC_056059.1	38215001	38235001	2.18447	0.376163	BD	LCORL	NC_056057.1	58780001	58800001
NC_056059.1	38210001	38230001	2.18447	0.339313	BD	LCORL	NC_056057.1	58880001	58900001
NC_056059.1	38205001	38225001	2.34356	0.30054	BD	LCORL	NC_056057.1	58885001	58905001
NC_056059.1	17520001	17540001	12.057	0.304056	BD	LEF1	NC_056057.1	58890001	58910001
NC_056054.1	41245001	41265001	5.37346	0.50997	BD	LEPR	NC_056057.1	58895001	58915001
NC_056054.1	41240001	41260001	4.89913	0.488654	BD	LEPR	NC_056057.1	58900001	58920001
NC_056054.1	41235001	41255001	3.38437	0.371609	BD	LEPR	NC_056057.1	58905001	58925001
NC_056063.1	23265001	23285001	2.57111	0.294491	BD	LHFPL6	NC_056057.1	58910001	58930001
NC_056059.1	61095001	61115001	6.2711	0.516324	BD	LIMCH1	NC_056057.1	59110001	59130001
NC_056059.1	61090001	61110001	6.10909	0.516279	BD	LIMCH1	NC_056077.1	41790001	41810001
NC_056059.1	61100001	61120001	5.97692	0.506586	BD	LIMCH1	NC_056077.1	41795001	41815001

NC_056059.1	61085001	61105001	3.82413	0.444674	BD	LIMCH1	NC_056077.1	41800001	41820001
NC_056059.1	61105001	61125001	2.74157	0.431116	BD	LIMCH1	NC_056063.1	21220001	21240001
NC_056055.1	97690001	97710001	3.49712	0.327657	BD	LINGO2	NC_056054.1	191040001	191060001
NC_056062.1	4610001	4630001	2.44148	0.343341	BD	LMBRD1	NC_056054.1	191045001	191065001
NC_056062.1	4615001	4635001	2.39493	0.325285	BD	LMBRD1	NC_056070.1	8555001	8575001
NC_056056.1	1.99E+08	198905001	2.78657	0.380787	BD	LMO3	NC_056070.1	8560001	8580001
NC_056056.1	1.99E+08	198900001	3.08373	0.374336	BD	LMO3	NC_056070.1	8565001	8585001
NC_056056.1	1.99E+08	198910001	2.22357	0.311915	BD	LMO3	NC_056054.1	106485001	106505001
NC_056064.1	41330001	41350001	2.17727	0.43771	BD	LOC100526781	NC_056054.1	106490001	106510001
NC_056064.1	41325001	41345001	2.44739	0.428143	BD	LOC100526781	NC_056054.1	106495001	106515001
NC_056064.1	41335001	41355001	2.48335	0.387367	BD	LOC100526781	NC_056054.1	106500001	106520001
NC_056064.1	41320001	41340001	3.14155	0.368818	BD	LOC100526781;LOC1	NC_056054.1	106505001	106525001
NC_056064.1	41340001	41360001	2.62897	0.326203	BD	LOC100526781;V15	NC_056080.1	51165001	51185001
NC_056064.1	41310001	41330001	3.88481	0.332065	BD	LOC100526782	NC_056056.1	212905001	212925001
NC_056064.1	41315001	41335001	3.35731	0.322364	BD	LOC100526782	NC_056071.1	32205001	32225001
NC_056055.1	2.34E+08	234055001	8.77711	0.3903	BD	LOC101101962	NC_056060.1	86835001	86855001
NC_056080.1	63760001	63780001	2.39667	0.356364	BD	LOC101102537	NC_056064.1	24315001	24335001
NC_056075.1	36475001	36495001	4.3266	0.300626	BD	LOC101103610	NC_056064.1	24320001	24340001
NC_056055.1	18335001	18355001	2.32895	0.398913	BD	LOC101103627	NC_056080.1	63985001	64005001
NC_056075.1	43590001	43610001	5.84666	0.497953	BD	LOC101104360	NC_056056.1	188865001	188885001
NC_056075.1	43595001	43615001	3.42215	0.447684	BD	LOC101104360	NC_056056.1	188870001	188890001
NC_056075.1	43580001	43600001	7.21138	0.509283	BD	LOC101104360;NKX	NC_056056.1	188875001	188895001
NC_056073.1	42425001	42445001	2.66502	0.301579	BD	LOC101104613	NC_056056.1	188880001	188900001
NC_056068.1	44540001	44560001	2.18168	0.296953	BD	LOC101105275;LOC1	NC_056056.1	188885001	188905001
NC_056075.1	16190001	16210001	3.48114	0.420807	BD	LOC101105314	NC_056056.1	188975001	188995001
NC_056075.1	16185001	16205001	3.24834	0.408355	BD	LOC101105314	NC_056054.1	122400001	122420001
NC_056075.1	16180001	16200001	2.97151	0.376412	BD	LOC101105314	NC_056054.1	122405001	122425001
NC_056075.1	16175001	16195001	3.17802	0.3512	BD	LOC101105314	NC_056070.1	29180001	29200001
NC_056075.1	16195001	16215001	2.92232	0.350105	BD	LOC101105314	NC_056055.1	73350001	73370001
NC_056058.1	50155001	50175001	2.81746	0.307833	BD	LOC101105495	NC_056055.1	73380001	73400001
NC_056058.1	40550001	40570001	4.75503	0.329007	BD	LOC101105657	NC_056073.1	40885001	40905001
NC_056066.1	59330001	59350001	2.67505	0.316974	BD	LOC101105678;LOC1	NC_056064.1	41350001	41370001
NC_056060.1	25820001	25840001	42.7772	0.376484	BD	LOC101105825	NC_056064.1	41355001	41375001
NC_056060.1	25815001	25835001	15.05	0.32332	BD	LOC101105825;LOC1	NC_056054.1	278280001	278300001
NC_056074.1	35605001	35625001	2.89814	0.351268	BD	LOC101106045	NC_056054.1	278285001	278305001
NC_056074.1	35610001	35630001	4.36631	0.295749	BD	LOC101106045	NC_056054.1	278290001	278310001
NC_056074.1	35615001	35635001	5.81918	0.292463	BD	LOC101106045	NC_056054.1	278295001	278315001
NC_056074.1	36425001	36445001	3.59374	0.372464	BD	LOC101106637;TMEI	NC_056054.1	278300001	278320001
NC_056080.1	64030001	64050001	3.75943	0.717519	BD	LOC101106743	NC_056054.1	278305001	278325001
NC_056080.1	64035001	64055001	3.87612	0.604582	BD	LOC101106743	NC_056054.1	278310001	278330001
NC_056080.1	64040001	64060001	2.76992	0.373834	BD	LOC101106743	NC_056054.1	278315001	278335001
NC_056056.1	2.01E+08	200665001	2.11671	0.346744	BD	LOC101106925	NC_056054.1	278325001	278345001
NC_056056.1	2.01E+08	200670001	2.30698	0.296239	BD	LOC101106925	NC_056054.1	278330001	278350001
NC_056066.1	3495001	3515001	3.88429	0.344165	BD	LOC101109032	NC_056054.1	278335001	278355001
NC_056077.1	7640001	7660001	9.3067	0.403697	BD	LOC101109062	NC_056054.1	278340001	278360001
NC_056077.1	7635001	7655001	3.96711	0.404147	BD	LOC101109062	NC_056054.1	278345001	278365001
NC_056077.1	7630001	7650001	2.36149	0.359203	BD	LOC101109062	NC_056054.1	232105001	232125001
NC_056074.1	5035001	5055001	7.924	0.300102	BD	LOC101110373	NC_056057.1	86720001	86740001
NC_056068.1	44535001	44555001	3.02824	0.342254	BD	LOC101111047	NC_056060.1	73050001	73070001
NC_056077.1	28920001	28940001	3.13314	0.383594	BD	LOC101111335	NC_056054.1	277615001	277635001
NC_056077.1	28915001	28935001	3.20667	0.358214	BD	LOC101111335	NC_056054.1	277635001	277655001
NC_056077.1	28925001	28945001	2.23849	0.354358	BD	LOC101111335	NC_056054.1	277640001	277660001
NC_056054.1	1.08E+08	107725001	3.77638	0.381608	BD	LOC101111337;LOC1	NC_056054.1	277645001	277665001
NC_056054.1	1.08E+08	107720001	2.5188	0.355816	BD	LOC101111337;LOC1	NC_056054.1	277650001	277670001
NC_056068.1	81335001	81355001	2.23639	0.298826	BD	LOC101111486	NC_056054.1	277655001	277675001
NC_056058.1	29220001	29240001	2.37624	0.340285	BD	LOC101111543	NC_056054.1	277660001	277680001
NC_056065.1	28200001	28220001	4.2859	0.351384	BD	LOC101111566	NC_056054.1	277670001	277690001
NC_056065.1	28195001	28215001	3.34216	0.33566	BD	LOC101111566;TMEI	NC_056054.1	277675001	277695001
NC_056054.1	1.08E+08	107735001	4.18045	0.384564	BD	LOC101111854	NC_056059.1	41675001	41695001
NC_056054.1	1.08E+08	107730001	4.31428	0.364524	BD	LOC101111854	NC_056059.1	41680001	41700001
NC_056068.1	81350001	81370001	10.3025	0.363383	BD	LOC101112419	NC_056060.1	98130001	98150001
NC_056068.1	81345001	81365001	5.40323	0.348017	BD	LOC101112419	NC_056060.1	3120001	3140001
NC_056068.1	81360001	81380001	4.91405	0.30108	BD	LOC101112419	NC_056074.1	45460001	45480001
NC_056068.1	81365001	81385001	4.06294	0.2924	BD	LOC101112419	NC_056080.1	44080001	44100001
NC_056077.1	26535001	26555001	4.65218	0.698727	BD	LOC101112694	NC_056080.1	44090001	44110001
NC_056077.1	26530001	26550001	2.96176	0.62095	BD	LOC101112694	NC_056080.1	44095001	44115001
NC_056077.1	26525001	26545001	2.16487	0.553041	BD	LOC101112694	NC_056080.1	44100001	44120001
NC_056066.1	53975001	53995001	2.74285	0.307827	BD	LOC101112800	NC_056080.1	44105001	44125001
NC_056066.1	53970001	53990001	4.21312	0.293477	BD	LOC101112800	NC_056080.1	44110001	44130001
NC_056054.1	1.1E+08	109950001	12.3233	0.409822	BD	LOC101112936	NC_056080.1	44115001	44135001
NC_056054.1	1.1E+08	109955001	6.91193	0.38296	BD	LOC101112936	NC_056073.1	800001	820001
NC_056054.1	1.1E+08	109960001	2.54354	0.338722	BD	LOC101112936	NC_056073.1	805001	825001
NC_056054.1	1.1E+08	109945001	3.20573	0.330253	BD	LOC101112936;LOC1	NC_056054.1	10465001	10485001
NC_056067.1	14285001	14305001	4.38291	0.349236	BD	LOC101113004;LOC1	NC_056068.1	63040001	63060001

NC_056065.1	4870001	4890001	4.84375	0.33577	BD	LOC101114456	NC_056073.1	38790001	38810001
NC_056065.1	4900001	4920001	3.60231	0.320765	BD	LOC101114456;LOC1NC	056073.1	38865001	38885001
NC_056065.1	4905001	4925001	3.02334	0.300375	BD	LOC101114456;LOC1NC	056073.1	38870001	38890001
NC_056054.1	1.79E+08	178540001	3.61127	0.309804	BD	LOC101114747	NC_056073.1	38875001	38895001
NC_056054.1	23115001	23135001	2.88129	0.388091	BD	LOC101115174	NC_056073.1	38880001	38900001
NC_056054.1	23100001	23120001	3.14916	0.386285	BD	LOC101115174	NC_056073.1	38970001	38990001
NC_056054.1	23095001	23115001	3.71641	0.382437	BD	LOC101115174	NC_056074.1	27665001	27685001
NC_056054.1	23090001	23110001	2.61813	0.366996	BD	LOC101115174	NC_056063.1	49220001	49240001
NC_056054.1	23110001	23130001	3.44284	0.362036	BD	LOC101115174	NC_056063.1	49310001	49330001
NC_056054.1	23120001	23140001	2.46003	0.360629	BD	LOC101115174	NC_056063.1	49315001	49335001
NC_056054.1	23105001	23125001	3.50493	0.35082	BD	LOC101115174	NC_056063.1	49325001	49345001
NC_056067.1	62115001	62135001	5.96846	0.401715	BD	LOC101115398	NC_056063.1	49330001	49350001
NC_056068.1	46930001	46950001	4.24275	0.398567	BD	LOC101115569;LOC1NC	056063.1	49465001	49485001
NC_056068.1	46935001	46955001	2.19925	0.403193	BD	LOC101115569;LOC1NC	056063.1	48395001	48415001
NC_056068.1	46945001	46965001	2.29804	0.346286	BD	LOC101115824;LOC1NC	056063.1	44570001	44590001
NC_056080.1	34140001	34160001	17.7	0.394551	BD	LOC101115943	NC_056063.1	44575001	44595001
NC_056080.1	34145001	34165001	12.6613	0.361556	BD	LOC101115943	NC_056063.1	44580001	44600001
NC_056080.1	34150001	34170001	10.812	0.345928	BD	LOC101115943	NC_056063.1	44585001	44605001
NC_056080.1	34155001	34175001	10.6339	0.335024	BD	LOC101115943	NC_056063.1	44610001	44630001
NC_056058.1	9080001	9100001	21.2296	0.373502	BD	LOC101116053	NC_056063.1	44640001	44660001
NC_056058.1	9075001	9095001	26.8532	0.355423	BD	LOC101116053	NC_056063.1	44645001	44665001
NC_056058.1	9070001	9090001	25.3178	0.332762	BD	LOC101116053	NC_056063.1	44670001	44690001
NC_056054.1	2.24E+08	223560001	2.20711	0.330622	BD	LOC101116449	NC_056063.1	44675001	44695001
NC_056062.1	65200001	65220001	2.71338	0.406379	BD	LOC101116738	NC_056063.1	44680001	44700001
NC_056062.1	65195001	65215001	3.53228	0.3853	BD	LOC101116738	NC_056063.1	44685001	44705001
NC_056062.1	65190001	65210001	2.69794	0.291714	BD	LOC101116738	NC_056063.1	44690001	44710001
NC_056067.1	53615001	53635001	2.34286	0.378463	BD	LOC101117098;STRN	NC_056063.1	44695001	44715001
NC_056080.1	9240001	9260001	9.53229	0.466922	BD	LOC101118248	NC_056063.1	44700001	44720001
NC_056080.1	9245001	9265001	4.69018	0.421503	BD	LOC101118248	NC_056063.1	44705001	44725001
NC_056080.1	9235001	9255001	15.364	0.418996	BD	LOC101118248	NC_056063.1	44710001	44730001
NC_056080.1	2800001	2820001	6.53351	0.341107	BD	LOC101118336	NC_056063.1	44715001	44735001
NC_056080.1	2795001	2815001	6.32158	0.307968	BD	LOC101118336	NC_056063.1	44720001	44740001
NC_056056.1	44585001	44605001	13.0322	0.473554	BD	LOC101119202	NC_056063.1	44725001	44745001
NC_056056.1	44590001	44610001	11.4041	0.46621	BD	LOC101119202	NC_056063.1	44750001	44770001
NC_056056.1	44580001	44600001	9.21797	0.454922	BD	LOC101119202	NC_056063.1	44755001	44775001
NC_056056.1	44575001	44595001	5.54135	0.431761	BD	LOC101119202	NC_056063.1	44760001	44780001
NC_056056.1	44595001	44615001	6.3992	0.420645	BD	LOC101119202	NC_056063.1	44765001	44785001
NC_056056.1	44560001	44580001	4.06862	0.378074	BD	LOC101119202	NC_056063.1	44770001	44790001
NC_056056.1	44565001	44585001	3.17692	0.353108	BD	LOC101119202	NC_056063.1	44775001	44795001
NC_056056.1	44600001	44620001	3.34832	0.352803	BD	LOC101119202	NC_056063.1	44780001	44800001
NC_056058.1	6835001	6855001	2.2069	0.29952	BD	LOC101119214	NC_056063.1	44785001	44805001
NC_056058.1	18605001	18625001	2.23399	0.518985	BD	LOC101119303;LOC1NC	056063.1	44790001	44810001
NC_056058.1	18610001	18630001	2.28108	0.510709	BD	LOC101119303;LOC1NC	056063.1	44795001	44815001
NC_056066.1	59325001	59345001	2.18449	0.31306	BD	LOC101119839	NC_056063.1	44800001	44820001
NC_056068.1	38940001	38960001	2.33404	0.305023	BD	LOC101120269;PTH	NC_056063.1	44805001	44825001
NC_056068.1	38945001	38965001	2.8532	0.302378	BD	LOC101120269;PTH	NC_056063.1	44810001	44830001
NC_056056.1	1.95E+08	194525001	2.33274	0.312866	BD	LOC101120653	NC_056063.1	44815001	44835001
NC_056056.1	1.95E+08	194530001	2.48962	0.294657	BD	LOC101120653	NC_056063.1	44820001	44840001
NC_056064.1	24045001	24065001	6.60446	0.44475	BD	LOC101120675	NC_056063.1	44825001	44845001
NC_056064.1	24040001	24060001	3.42341	0.393874	BD	LOC101120675;LOC1NC	056063.1	44830001	44850001
NC_056064.1	24035001	24055001	2.33992	0.333924	BD	LOC101120675;LOC1NC	056063.1	44835001	44855001
NC_056073.1	19800001	19820001	2.1913	0.327034	BD	LOC101120701	NC_056063.1	44840001	44860001
NC_056073.1	19795001	19815001	2.38495	0.312315	BD	LOC101120701	NC_056063.1	44845001	44865001
NC_056080.1	1.29E+08	129315001	2.18977	0.299147	BD	LOC101120810	NC_056063.1	44850001	44870001
NC_056068.1	53715001	53735001	7.53158	0.427234	BD	LOC101120816	NC_056063.1	44855001	44875001
NC_056068.1	53720001	53740001	7.50861	0.422321	BD	LOC101120816	NC_056063.1	44860001	44880001
NC_056068.1	53705001	53725001	6.90122	0.401844	BD	LOC101120816	NC_056063.1	44865001	44885001
NC_056068.1	53700001	53720001	6.35763	0.39326	BD	LOC101120816	NC_056063.1	44870001	44890001
NC_056068.1	53710001	53730001	5.91667	0.385486	BD	LOC101120816	NC_056063.1	44875001	44895001
NC_056068.1	53695001	53715001	5.93749	0.384403	BD	LOC101120816	NC_056063.1	44880001	44900001
NC_056068.1	53730001	53750001	7.77174	0.416383	BD	LOC101120816;LOC1NC	056063.1	44885001	44905001
NC_056068.1	53725001	53745001	7.22786	0.415683	BD	LOC101120816;LOC1NC	056063.1	44890001	44910001
NC_056068.1	53740001	53760001	7.9652	0.405382	BD	LOC101120816;LOC1NC	056071.1	15975001	15995001
NC_056068.1	53735001	53755001	6.87898	0.402412	BD	LOC101120816;LOC1NC	056071.1	15980001	16000001
NC_056064.1	24050001	24070001	3.279	0.433582	BD	LOC101120929	NC_056059.1	58965001	58985001
NC_056060.1	80105001	80125001	2.11815	0.40165	BD	LOC101121353;LOC1NC	056059.1	58970001	58990001
NC_056074.1	41855001	41875001	4.65301	0.312178	BD	LOC101121557;NDU NC	056059.1	58975001	58995001
NC_056074.1	41860001	41880001	2.5387	0.319424	BD	LOC101121557;NDU NC	056064.1	27795001	27815001
NC_056058.1	39795001	39815001	3.02759	0.352283	BD	LOC101121936	NC_056070.1	68440001	68460001
NC_056058.1	39800001	39820001	6.30814	0.348577	BD	LOC101121936	NC_056070.1	68465001	68485001
NC_056054.1	1.03E+08	102645001	2.82337	0.299547	BD	LOC101121986	NC_056070.1	68470001	68490001
NC_056058.1	39805001	39825001	6.67269	0.340499	BD	LOC101122191	NC_056056.1	134180001	134200001
NC_056058.1	39810001	39830001	4.62963	0.31718	BD	LOC101122191	NC_056059.1	38065001	38085001
NC_056067.1	46620001	46640001	5.96998	0.342349	BD	LOC101122210;ZNF5	NC_056068.1	65420001	65440001

NC_056067.1	46410001	46430001	2.37036	0.380885	BD	LOC101122457	NC_056068.1	56945001	56965001
NC_056054.1	1.44E+08	143670001	3.28194	0.352068	BD	LOC101122496	NC_056060.1	9605001	9625001
NC_056054.1	1.44E+08	143675001	2.66563	0.302191	BD	LOC101122496	NC_056060.1	9610001	9630001
NC_056058.1	14200001	14220001	3.91335	0.345375	BD	LOC101122597;PCP2	NC_056060.1	9615001	9635001
NC_056058.1	14205001	14225001	3.81538	0.315792	BD	LOC101122597;PCP2	NC_056060.1	9620001	9640001
NC_056068.1	53750001	53770001	7.70229	0.404321	BD	LOC101122934	NC_056060.1	9625001	9645001
NC_056068.1	53745001	53765001	7.47335	0.402225	BD	LOC101122934	NC_056060.1	9630001	9650001
NC_056068.1	53755001	53775001	5.71951	0.381173	BD	LOC101122934	NC_056060.1	9640001	9660001
NC_056072.1	43535001	43555001	6.08	0.507193	BD	LOC101123588	NC_056057.1	47300001	47320001
NC_056072.1	43530001	43550001	6.84293	0.505544	BD	LOC101123588	NC_056057.1	47305001	47325001
NC_056072.1	43525001	43545001	5.76922	0.501424	BD	LOC101123588	NC_056057.1	47310001	47330001
NC_056072.1	43540001	43560001	5.86898	0.500753	BD	LOC101123588	NC_056057.1	47315001	47335001
NC_056072.1	43545001	43565001	5.70121	0.495009	BD	LOC101123588	NC_056068.1	56950001	56970001
NC_056072.1	43515001	43535001	4.49148	0.488329	BD	LOC101123588	NC_056068.1	56955001	56975001
NC_056072.1	43520001	43540001	3.9476	0.483407	BD	LOC101123588	NC_056055.1	97430001	97450001
NC_056072.1	43550001	43570001	3.2595	0.438928	BD	LOC101123588	NC_056055.1	97435001	97455001
NC_056072.1	43510001	43530001	4.46244	0.392154	BD	LOC101123588	NC_056055.1	97440001	97460001
NC_056072.1	43555001	43575001	2.21753	0.367186	BD	LOC101123588	NC_056055.1	97445001	97465001
NC_056072.1	43505001	43525001	3.39042	0.317278	BD	LOC101123588	NC_056055.1	97535001	97555001
NC_056064.1	54605001	54625001	11.6797	0.311743	BD	LOC105601853;RHB	NC_056055.1	97685001	97705001
NC_056060.1	4445001	4465001	10.1219	0.37097	BD	LOC105601870	NC_056055.1	97690001	97710001
NC_056060.1	4440001	4460001	3.19566	0.306465	BD	LOC105601870	NC_056056.1	102150001	102170001
NC_056068.1	19975001	19995001	2.76405	0.326503	BD	LOC105602148;RDX	NC_056064.1	41325001	41345001
NC_056068.1	19970001	19990001	2.24711	0.322985	BD	LOC105602148;RDX	NC_056064.1	41335001	41355001
NC_056068.1	61730001	61750001	2.25	0.373952	BD	LOC105602333	NC_056064.1	41320001	41340001
NC_056074.1	45825001	45845001	2.83594	0.307194	BD	LOC105604151	NC_056064.1	41340001	41360001
NC_056074.1	45830001	45850001	3.25654	0.295038	BD	LOC105604151	NC_056064.1	41305001	41325001
NC_056080.1	57085001	57105001	2.39864	0.355641	BD	LOC105605483	NC_056064.1	41310001	41330001
NC_056071.1	65450001	65470001	6.84448	0.368694	BD	LOC105605761;LOC1	NC_056064.1	41315001	41335001
NC_056071.1	65455001	65475001	4.93342	0.325762	BD	LOC105605761;LOC1	NC_056077.1	37225001	37245001
NC_056073.1	25895001	25915001	16.3849	0.374776	BD	LOC105605990	NC_056077.1	37230001	37250001
NC_056073.1	25900001	25920001	16.2016	0.34596	BD	LOC105605990	NC_056077.1	37235001	37255001
NC_056073.1	25905001	25925001	17.6037	0.311376	BD	LOC105605990	NC_056074.1	8630001	8650001
NC_056073.1	25985001	26005001	12.9822	0.304491	BD	LOC105605990	NC_056074.1	8635001	8655001
NC_056073.1	25960001	25980001	22.1371	0.300051	BD	LOC105605990	NC_056074.1	8640001	8660001
NC_056067.1	44755001	44775001	2.89572	0.395617	BD	LOC105607568;LOC1	NC_056054.1	181375001	181395001
NC_056058.1	60960001	60980001	2.25501	0.315874	BD	LOC105615377	NC_056074.1	35190001	35210001
NC_056054.1	1.58E+08	157520001	3.74901	0.33264	BD	LOC105616630	NC_056074.1	35195001	35215001
NC_056071.1	65445001	65465001	8.05157	0.375125	BD	LOC114109056	NC_056074.1	35200001	35220001
NC_056071.1	65440001	65460001	9.08365	0.347809	BD	LOC114109056	NC_056074.1	35205001	35225001
NC_056074.1	35475001	35495001	2.1155	0.365793	BD	LOC114110058	NC_056074.1	35210001	35230001
NC_056074.1	35470001	35490001	2.29443	0.344083	BD	LOC114110058	NC_056074.1	35215001	35235001
NC_056077.1	14175001	14195001	3.82257	0.631743	BD	LOC114110664;RRN	NC_056058.1	8120001	8140001
NC_056080.1	1.37E+08	137420001	2.58034	0.325729	BD	LOC114111709	NC_056058.1	8125001	8145001
NC_056080.1	1.37E+08	137425001	2.16025	0.291097	BD	LOC114111709	NC_056073.1	42415001	42435001
NC_056055.1	61440001	61460001	2.19789	0.293498	BD	LOC114113073	NC_056073.1	42420001	42440001
NC_056056.1	92185001	92205001	4.31137	0.48925	BD	LOC114113944	NC_056073.1	42425001	42445001
NC_056056.1	92180001	92200001	14.0107	0.416998	BD	LOC114113944	NC_056058.1	39020001	39040001
NC_056056.1	92175001	92195001	14.1602	0.379256	BD	LOC114113944;SRD5	NC_056058.1	39025001	39045001
NC_056057.1	1.21E+08	121445001	4.88119	0.3086	BD	LOC114114472	NC_056058.1	39030001	39050001
NC_056058.1	9050001	9025001	5.82265	0.432151	BD	LOC114114788	NC_056077.1	4705001	4725001
NC_056058.1	9010001	9030001	15.9901	0.329298	BD	LOC114114788	NC_056077.1	4710001	4730001
NC_056060.1	25825001	25845001	16.876	0.387269	BD	LOC114115708	NC_056077.1	4715001	4735001
NC_056060.1	25830001	25850001	6.29383	0.373688	BD	LOC114115708	NC_056055.1	89835001	89855001
NC_056060.1	25835001	25855001	4.41817	0.352773	BD	LOC114115708	NC_056080.1	19350001	19370001
NC_056060.1	25840001	25860001	3.82016	0.3186	BD	LOC114115708	NC_056064.1	49895001	49915001
NC_056064.1	23965001	23985001	2.57699	0.306545	BD	LOC114116984	NC_056058.1	50150001	50170001
NC_056066.1	35555001	35575001	4.89563	0.323975	BD	LOC114117570	NC_056058.1	50155001	50175001
NC_056067.1	44715001	44735001	3.11297	0.374792	BD	LOC114117974	NC_056058.1	50165001	50185001
NC_056067.1	44720001	44740001	3.26694	0.328307	BD	LOC114117974	NC_056058.1	50170001	50190001
NC_056067.1	44725001	44745001	3.97604	0.319462	BD	LOC114117974;LOC1	NC_056068.1	64210001	64230001
NC_056067.1	44740001	44760001	2.31336	0.308784	BD	LOC114117975	NC_056068.1	64215001	64235001
NC_056069.1	75001	95001	7.7921	0.351695	BD	LOC114118677	NC_056068.1	64220001	64240001
NC_056069.1	80001	100001	7.00001	0.343939	BD	LOC114118677	NC_056068.1	64225001	64245001
NC_056069.1	90001	110001	7.38946	0.323333	BD	LOC114118677	NC_056068.1	64230001	64250001
NC_056065.1	78425001	78445001	8.7652	0.299064	BD	LOC121816068	NC_056074.1	35405001	35425001
NC_056067.1	51565001	51585001	19.437	0.293722	BD	LOC121816525	NC_056074.1	35425001	35445001
NC_056076.1	24870001	24890001	8.57819	0.475107	BD	LOC121817702	NC_056074.1	35430001	35450001
NC_056076.1	24875001	24895001	4.10754	0.426791	BD	LOC121817702	NC_056074.1	35495001	35515001
NC_056076.1	24885001	24905001	3.16417	0.418193	BD	LOC121817702	NC_056074.1	35500001	35520001
NC_056076.1	24880001	24900001	3.39411	0.416244	BD	LOC121817702	NC_056074.1	35505001	35525001
NC_056076.1	24865001	24885001	3.43919	0.404682	BD	LOC121817702	NC_056074.1	35485001	35505001
NC_056080.1	1.31E+08	131480001	7.05861	0.32979	BD	LOC121818354	NC_056074.1	35490001	35510001
NC_056080.1	1.31E+08	131485001	2.98526	0.306564	BD	LOC121818354	NC_056074.1	35620001	35640001



NW_024599807.1	15001	35001	3.88229	0.477145	BD	LOC121818477	NC_056074.1	36425001	36445001
NW_024599807.1	20001	40001	5.59018	0.473326	BD	LOC121818477	NC_056080.1	64030001	64050001
NW_024599807.1	25001	45001	12.9055	0.467352	BD	LOC121818477	NC_056080.1	64035001	64055001
NC_056054.1	1.16E+08	116430001	2.96039	0.66878	BD	LOC121818668	NC_056080.1	116285001	116305001
NC_056054.1	1.16E+08	116425001	2.15482	0.622934	BD	LOC121818668	NC_056054.1	72195001	72215001
NC_056054.1	1.16E+08	116435001	5.58759	0.60763	BD	LOC121818668	NC_056063.1	27275001	27295001
NC_056054.1	1.16E+08	116440001	5.47018	0.522871	BD	LOC121818668	NC_056063.1	27285001	27305001
NC_056054.1	1.16E+08	116445001	2.59083	0.41621	BD	LOC121818668	NC_056054.1	199485001	199505001
NC_056056.1	1.16E+08	116445001	2.29717	0.456485	BD	LOC121819170	NC_056074.1	15575001	15595001
NC_056056.1	1.16E+08	116450001	2.40541	0.45193	BD	LOC121819170	NC_056074.1	15565001	15585001
NC_056056.1	1.16E+08	116455001	2.4554	0.415446	BD	LOC121819170	NC_056074.1	15570001	15590001
NC_056056.1	1.16E+08	116460001	2.58629	0.363364	BD	LOC121819170	NC_056074.1	5035001	5055001
NC_056056.1	1.16E+08	116465001	2.30166	0.30669	BD	LOC121819170	NC_056074.1	5040001	5060001
NC_056057.1	83400001	83420001	4.30794	0.449948	BD	LOC121819513	NC_056059.1	25330001	25350001
NC_056057.1	83405001	83425001	2.88446	0.409284	BD	LOC121819513	NC_056059.1	25335001	25355001
NC_056057.1	83395001	83415001	2.29174	0.388688	BD	LOC121819513	NC_056059.1	25340001	25360001
NC_056061.1	14970001	14990001	6.19262	0.430787	BD	LOC121820153	NC_056059.1	25345001	25365001
NC_056061.1	14975001	14995001	4.0669	0.376373	BD	LOC121820153	NC_056059.1	25350001	25370001
NC_056061.1	14965001	14985001	6.0903	0.34602	BD	LOC121820153	NC_056059.1	25355001	25375001
NC_056061.1	14980001	15000001	3.12477	0.344059	BD	LOC121820153	NC_056054.1	10840001	10860001
NC_056061.1	15045001	15065001	2.38106	0.299775	BD	LOC121820153	NC_056064.1	36700001	36720001
NC_056055.1	1.7E+08	169585001	2.73068	0.395801	BD	LRP1B	NC_056077.1	28920001	28940001
NC_056055.1	1.68E+08	168340001	2.94104	0.320996	BD	LRP1B	NC_056068.1	81335001	81355001
NC_056055.1	1.68E+08	168345001	3.19101	0.307609	BD	LRP1B	NC_056058.1	65965001	65985001
NC_056056.1	80350001	80370001	2.42396	0.478925	BD	LRPPRC	NC_056058.1	65970001	65990001
NC_056056.1	80375001	80395001	2.4312	0.46124	BD	LRPPRC	NC_056079.1	14815001	14835001
NC_056056.1	80385001	80405001	3.84031	0.459757	BD	LRPPRC	NC_056079.1	14820001	14840001
NC_056056.1	80380001	80400001	3.51175	0.456179	BD	LRPPRC	NC_056068.1	81345001	81365001
NC_056056.1	80345001	80365001	2.24888	0.413739	BD	LRPPRC	NC_056068.1	81350001	81370001
NC_056060.1	17845001	17865001	2.75274	0.382596	BD	LRRC49	NC_056067.1	14285001	14305001
NC_056060.1	17840001	17860001	2.8497	0.358662	BD	LRRC49	NC_056058.1	38450001	38470001
NC_056074.1	45950001	45970001	2.20976	0.342212	BD	LSP1;TNNT3	NC_056058.1	38455001	38475001
NC_056077.1	770001	790001	2.51984	0.33447	BD	LUC7L	NC_056077.1	19640001	19660001
NC_056077.1	785001	805001	3.18807	0.328327	BD	LUC7L	NC_056077.1	19645001	19665001
NC_056077.1	780001	800001	3.02638	0.324071	BD	LUC7L	NC_056077.1	19650001	19670001
NC_056077.1	775001	795001	2.44293	0.31847	BD	LUC7L	NC_056078.1	40935001	40955001
NC_056074.1	18080001	18100001	12.2612	0.546508	BD	LUZP2	NC_056078.1	40940001	40960001
NC_056074.1	18055001	18075001	14.243	0.543021	BD	LUZP2	NC_056078.1	40945001	40965001
NC_056074.1	18115001	18135001	11.6163	0.540661	BD	LUZP2	NC_056078.1	40950001	40970001
NC_056074.1	18125001	18145001	14.9743	0.538442	BD	LUZP2	NC_056078.1	40955001	40975001
NC_056074.1	18120001	18140001	11.72	0.528705	BD	LUZP2	NC_056078.1	40960001	40980001
NC_056074.1	18110001	18130001	9.48703	0.524826	BD	LUZP2	NC_056074.1	37580001	37600001
NC_056074.1	18050001	18070001	8.03509	0.520866	BD	LUZP2	NC_056065.1	4870001	4890001
NC_056074.1	18105001	18125001	8.53704	0.512094	BD	LUZP2	NC_056061.1	50075001	50095001
NC_056074.1	18090001	18110001	7.25892	0.510413	BD	LUZP2	NC_056077.1	34570001	34590001
NC_056074.1	18100001	18120001	7.98785	0.50981	BD	LUZP2	NC_056058.1	9015001	9035001
NC_056074.1	18085001	18105001	6.10552	0.50619	BD	LUZP2	NC_056058.1	9020001	9040001
NC_056074.1	18130001	18150001	6.97163	0.503332	BD	LUZP2	NC_056067.1	62115001	62135001
NC_056074.1	18095001	18115001	7.7026	0.502375	BD	LUZP2	NC_056058.1	9035001	9055001
NC_056074.1	18045001	18065001	4.40292	0.461479	BD	LUZP2	NC_056058.1	9040001	9060001
NC_056074.1	18135001	18155001	3.77096	0.459538	BD	LUZP2	NC_056058.1	9045001	9065001
NC_056066.1	8790001	8810001	6.38695	0.428607	BD	MACROD2	NC_056077.1	16935001	16955001
NC_056066.1	8785001	8805001	2.22928	0.36041	BD	MACROD2	NC_056077.1	16940001	16960001
NC_056066.1	9660001	9680001	4.12269	0.339168	BD	MACROD2	NC_056077.1	16945001	16965001
NC_056066.1	9655001	9675001	4.51807	0.297725	BD	MACROD2	NC_056080.1	34140001	34160001
NC_056077.1	41530001	41550001	18.0426	0.568256	BD	MAD1L1	NC_056080.1	34145001	34165001
NC_056077.1	41525001	41545001	20.801	0.567699	BD	MAD1L1	NC_056080.1	34150001	34170001
NC_056077.1	41535001	41555001	13.7903	0.562853	BD	MAD1L1	NC_056080.1	34155001	34175001
NC_056077.1	41520001	41540001	23.1921	0.561627	BD	MAD1L1	NC_056058.1	9070001	9090001
NC_056077.1	41540001	41560001	6.27878	0.523872	BD	MAD1L1	NC_056058.1	9075001	9095001
NC_056077.1	41545001	41565001	5.8537	0.500658	BD	MAD1L1	NC_056058.1	9080001	9100001
NC_056077.1	41560001	41580001	7.60133	0.480251	BD	MAD1L1	NC_056071.1	24550001	24570001
NC_056077.1	41570001	41590001	4.92655	0.474881	BD	MAD1L1	NC_056071.1	24565001	24585001
NC_056077.1	41555001	41575001	5.72537	0.468677	BD	MAD1L1	NC_056065.1	55560001	55580001
NC_056077.1	41550001	41570001	4.702	0.457591	BD	MAD1L1	NC_056065.1	55545001	55565001
NC_056077.1	41575001	41595001	4.33334	0.433056	BD	MAD1L1	NC_056065.1	55550001	55570001
NC_056077.1	41565001	41585001	4.35801	0.426272	BD	MAD1L1	NC_056065.1	55555001	55575001
NC_056077.1	41515001	41535001	3.2461	0.406827	BD	MAD1L1	NC_056059.1	8845001	8865001
NC_056077.1	41580001	41600001	4.05976	0.372407	BD	MAD1L1	NC_056059.1	8850001	8870001
NC_056077.1	41510001	41530001	2.2777	0.332935	BD	MAD1L1	NC_056059.1	8855001	8875001
NC_056070.1	18085001	18105001	2.21181	0.33758	BD	MAML3;MGST2	NC_056058.1	38970001	38990001
NC_056055.1	2.41E+08	241200001	5.58529	0.364602	BD	MAN1C1	NC_056058.1	38980001	39000001
NC_056055.1	2.41E+08	241195001	2.96905	0.322009	BD	MAN1C1	NC_056058.1	38985001	39005001
NC_056058.1	11125001	11145001	3.81915	0.415661	BD	MAN2B1;WDR83OS	NC_056058.1	39065001	39085001

NC_056056.1	99970001	99990001	5.62567	0.348043	BD	MAP4K4	NC_056067.1	53615001	53635001
NC_056056.1	99965001	99985001	5.37204	0.347237	BD	MAP4K4	NC_056056.1	165205001	165225001
NC_056056.1	99960001	99980001	4.10552	0.319557	BD	MAP4K4	NC_056056.1	165210001	165230001
NC_056056.1	99975001	99995001	5.03438	0.318176	BD	MAP4K4	NC_056056.1	165215001	165235001
NC_056056.1	99955001	99975001	2.6804	0.301365	BD	MAP4K4	NC_056074.1	16545001	16565001
NC_056074.1	38670001	38690001	3.90104	0.459163	BD	MARK2	NC_056074.1	16550001	16570001
NC_056074.1	38665001	38685001	2.48993	0.410678	BD	MARK2	NC_056056.1	104795001	104815001
NC_056074.1	38690001	38710001	5.90001	0.405982	BD	MARK2	NC_056056.1	104800001	104820001
NC_056074.1	38695001	38715001	6.5746	0.323609	BD	MARK2;RCOR2	NC_056056.1	104805001	104825001
NC_056054.1	20450001	20470001	4.98388	0.311707	BD	MAST2	NC_056056.1	104790001	104810001
NC_056080.1	20170001	20190001	5.4815	0.306587	BD	MBTPS2;YY2	NC_056074.1	16740001	16760001
NC_056067.1	14245001	14265001	2.7526	0.331831	BD	MC1R;TCF25	NC_056074.1	16745001	16765001
NC_056054.1	2.19E+08	218785001	2.70204	0.398644	BD	MECOM	NC_056074.1	16840001	16860001
NC_056054.1	2.19E+08	218790001	2.29923	0.385276	BD	MECOM	NC_056074.1	16845001	16865001
NC_056054.1	2.19E+08	218795001	2.67612	0.35472	BD	MECOM	NC_056059.1	113755001	113775001
NC_056054.1	2.38E+08	237525001	2.14286	0.302439	BD	MED12L;P2RY13	NC_056059.1	113760001	113780001
NC_056063.1	18250001	18270001	3.62296	0.305229	BD	MED4	NC_056059.1	113765001	113785001
NC_056060.1	12865001	12885001	3.51579	0.330075	BD	MEGF11	NC_056059.1	113770001	113790001
NC_056060.1	12860001	12880001	2.24235	0.293062	BD	MEGF11	NC_056059.1	113775001	113795001
NC_056056.1	2.19E+08	218645001	2.68545	0.356634	BD	MEI1	NC_056059.1	113780001	113800001
NC_056056.1	2.19E+08	218640001	2.62023	0.352143	BD	MEI1	NC_056059.1	113785001	113805001
NC_056056.1	2.19E+08	218635001	2.31087	0.333177	BD	MEI1	NC_056059.1	113790001	113810001
NC_056059.1	37510001	37530001	20.6132	0.487708	BD	MEPE	NC_056055.1	105195001	105215001
NC_056059.1	37505001	37525001	18.7057	0.47767	BD	MEPE	NC_056055.1	105200001	105220001
NC_056059.1	37500001	37520001	14.8857	0.470387	BD	MEPE	NC_056055.1	105205001	105225001
NC_056059.1	37515001	37535001	8.0956	0.42796	BD	MEPE	NC_056080.1	9235001	9255001
NC_056057.1	53105001	53125001	2.18096	0.466526	BD	MET	NC_056080.1	9240001	9260001
NC_056057.1	53100001	53120001	2.28732	0.45171	BD	MET	NC_056080.1	9245001	9265001
NC_056057.1	53095001	53115001	2.28961	0.434572	BD	MET	NC_056080.1	2750001	2770001
NC_056057.1	53110001	53130001	2.55882	0.417505	BD	MET	NC_056080.1	2755001	2775001
NC_056057.1	53115001	53135001	2.60072	0.37406	BD	MET	NC_056080.1	2760001	2780001
NC_056057.1	53120001	53140001	3.44104	0.338719	BD	MET	NC_056080.1	2765001	2785001
NC_056076.1	37335001	37355001	5.94764	0.596293	BD	METTTL4	NC_056080.1	2770001	2790001
NC_056076.1	37330001	37350001	7.51498	0.541609	BD	METTTL4	NC_056080.1	2785001	2805001
NC_056076.1	37325001	37345001	10.9482	0.495122	BD	METTTL4	NC_056080.1	2790001	2810001
NC_056076.1	37305001	37325001	2.65493	0.466339	BD	METTTL4	NC_056055.1	230080001	230100001
NC_056076.1	37320001	37340001	10.1538	0.455476	BD	METTTL4	NC_056055.1	230085001	230105001
NC_056076.1	37310001	37330001	5.21705	0.432231	BD	METTTL4	NC_056055.1	230115001	230135001
NC_056076.1	37315001	37335001	8.30264	0.413939	BD	METTTL4	NC_056055.1	230120001	230140001
NC_056076.1	37340001	37360001	3.20469	0.508252	BD	METTTL4;NDC80	NC_056062.1	14585001	14605001
NC_056076.1	37345001	37365001	2.2	0.430427	BD	METTTL4;NDC80	NC_056062.1	14590001	14610001
NC_056076.1	37350001	37370001	3.17048	0.420154	BD	METTTL4;NDC80	NC_056062.1	14595001	14615001
NC_056076.1	37355001	37375001	3.5234	0.409016	BD	METTTL4;NDC80	NC_056080.1	36640001	36660001
NC_056055.1	1.19E+08	118865001	13.6967	0.458609	BD	MFSD6	NC_056080.1	36655001	36675001
NC_056055.1	1.19E+08	118860001	8.28752	0.430779	BD	MFSD6	NC_056080.1	36685001	36705001
NC_056055.1	1.19E+08	118895001	9.68155	0.403116	BD	MFSD6	NC_056080.1	36690001	36710001
NC_056055.1	1.19E+08	118855001	5.07977	0.366024	BD	MFSD6	NC_056055.1	224825001	224845001
NC_056070.1	18095001	18115001	3.42124	0.393748	BD	MGST2	NC_056059.1	16250001	16270001
NC_056070.1	18100001	18120001	2.90733	0.377008	BD	MGST2	NC_056066.1	36545001	36565001
NC_056070.1	18090001	18110001	2.8328	0.372542	BD	MGST2	NC_056066.1	36550001	36570001
NC_056056.1	2.15E+08	215130001	2.33334	0.307764	BD	MICAL3	NC_056068.1	53720001	53740001
NC_056056.1	2.15E+08	215125001	2.30096	0.297807	BD	MICAL3	NC_056068.1	53725001	53745001
NC_056057.1	96730001	96750001	2.22031	0.31707	BD	MKLN1	NC_056068.1	53730001	53750001
NC_056057.1	96715001	96735001	2.16006	0.307823	BD	MKLN1	NC_056068.1	46955001	46975001
NC_056057.1	96725001	96745001	2.22616	0.304531	BD	MKLN1	NC_056068.1	46960001	46980001
NC_056057.1	96735001	96755001	2.30903	0.292156	BD	MKLN1	NC_056068.1	46950001	46970001
NC_056062.1	87535001	87555001	3.22705	0.343059	BD	MMP16	NC_056074.1	41855001	41875001
NC_056062.1	87530001	87550001	2.82429	0.296432	BD	MMP16	NC_056074.1	41860001	41880001
NC_056062.1	13610001	13630001	8.24431	0.432539	BD	MROH1	NW_02459976<	135001	155001
NC_056062.1	13615001	13635001	6.93082	0.414187	BD	MROH1	NW_02459976<	160001	180001
NC_056062.1	13625001	13645001	3.3662	0.328829	BD	MROH1	NW_02459976<	165001	185001
NC_056062.1	13630001	13650001	3.05714	0.317886	BD	MROH1	NW_02459976<	145001	165001
NC_056058.1	63890001	63910001	2.67729	0.47727	BD	MRPL22	NW_02459976<	150001	170001
NC_056058.1	63895001	63915001	2.40763	0.440651	BD	MRPL22	NW_02459976<	155001	175001
NC_056063.1	22110001	22130001	5.10958	0.515814	BD	MRPS31	NC_056054.1	20195001	20215001
NC_056063.1	22115001	22135001	5.22886	0.484894	BD	MRPS31	NC_056060.1	21475001	21495001
NC_056063.1	22105001	22125001	6.39514	0.45588	BD	MRPS31	NC_056054.1	102620001	102640001
NC_056063.1	22120001	22140001	6.13774	0.346023	BD	MRPS31	NC_056054.1	102625001	102645001
NC_056063.1	22100001	22120001	2.2381	0.297862	BD	MRPS31	NC_056054.1	239620001	239640001
NC_056074.1	34465001	34485001	3.00265	0.355745	BD	MS4A15;MS4A18	NC_056054.1	239625001	239645001
NC_056074.1	34470001	34490001	3.70037	0.309044	BD	MS4A15;MS4A18	NC_056064.1	6100001	6120001
NC_056074.1	34460001	34480001	3.19639	0.366842	BD	MS4A18	NC_056064.1	6110001	6130001
NC_056054.1	52015001	52035001	5.03704	0.361155	BD	MSH4;RABGGTB	NC_056064.1	6115001	6135001
NC_056080.1	84925001	84945001	9.9716	0.316667	BD	MTM1	NC_056056.1	204755001	204775001

NC_056069.1	23910001	23930001	7.13291	0.32343	BD	MTREX;PLPP1	NC_056054.1	260295001	260315001
NC_056069.1	23920001	23940001	6.74997	0.306076	BD	MTREX;PLPP1	NC_056054.1	247050001	247070001
NC_056058.1	11340001	11360001	7.44933	0.481529	BD	MUC16	NC_056078.1	40965001	40985001
NC_056058.1	11345001	11365001	22.5545	0.436077	BD	MUC16	NC_056071.1	65420001	65440001
NC_056058.1	11355001	11375001	3.98652	0.377869	BD	MUC16	NC_056071.1	65425001	65445001
NC_056058.1	11335001	11355001	4.01487	0.369395	BD	MUC16	NC_056071.1	65430001	65450001
NC_056077.1	35620001	35640001	2.52174	0.434456	BD	MYL10	NC_056073.1	25975001	25995001
NC_056077.1	35625001	35645001	2.88572	0.433217	BD	MYL10	NC_056073.1	25980001	26000001
NC_056077.1	35615001	35635001	2.44265	0.416992	BD	MYL10	NC_056073.1	25985001	26005001
NC_056077.1	35610001	35630001	2.4945	0.390619	BD	MYL10	NC_056055.1	126945001	126965001
NC_056056.1	1.63E+08	162575001	2.4051	0.350228	BD	MYO1A	NC_056055.1	126950001	126970001
NC_056056.1	1.63E+08	162580001	2.16428	0.334471	BD	MYO1A	NC_056056.1	102575001	102595001
NC_056056.1	1.63E+08	162565001	2.12335	0.376711	BD	MYO1A;NEMP1	NC_056057.1	6975001	6995001
NC_056056.1	1.63E+08	162570001	2.64746	0.352304	BD	MYO1A;NEMP1	NC_056054.1	157500001	157520001
NC_056076.1	49860001	49880001	2.6097	0.508878	BD	MYO5B	NC_056080.1	79100001	79120001
NC_056076.1	49855001	49875001	3.75527	0.4523	BD	MYO5B	NC_056074.1	46270001	46290001
NC_056076.1	49850001	49870001	3.83057	0.394404	BD	MYO5B	NC_056074.1	18295001	18315001
NC_056076.1	49870001	49890001	2.28593	0.312394	BD	MYO5B	NC_056077.1	14170001	14190001
NC_056076.1	49845001	49865001	3.39811	0.304588	BD	MYO5B	NC_056077.1	14175001	14195001
NC_056076.1	37735001	37755001	2.67022	0.304879	BD	MYOM1	NC_056080.1	79045001	79065001
NC_056076.1	37750001	37770001	8.47153	0.295819	BD	MYOM1	NC_056080.1	79050001	79070001
NC_056076.1	37745001	37765001	5.69231	0.29164	BD	MYOM1	NC_056080.1	79055001	79075001
NC_056055.1	1065001	1085001	2.12892	0.31226	BD	MYTIL	NC_056080.1	70190001	70210001
NC_056054.1	2.13E+08	212690001	2.29162	0.318621	BD	NAALADL2	NC_056055.1	111030001	111050001
NC_056056.1	3420001	3440001	6.88073	0.300369	BD	NACC2	NC_056055.1	111035001	111055001
NC_056056.1	93065001	93085001	2.1425	0.35862	BD	NAGK;PAIP2B	NC_056055.1	111040001	111060001
NC_056074.1	22830001	22850001	2.7614	0.43799	BD	NAV2	NC_056055.1	111045001	111065001
NC_056056.1	23605001	23625001	6.1344	0.347229	BD	NBAS	NC_056058.1	9005001	9025001
NC_056056.1	23610001	23630001	4.36719	0.336112	BD	NBAS	NC_056058.1	9010001	9030001
NC_056056.1	23615001	23635001	3.47393	0.32242	BD	NBAS	NC_056059.1	59670001	59690001
NC_056063.1	26595001	26615001	2.94687	0.455128	BD	NBEA	NC_056059.1	59655001	59675001
NC_056063.1	26590001	26610001	3.25941	0.415847	BD	NBEA	NC_056059.1	59660001	59680001
NC_056063.1	26585001	26605001	2.94143	0.388889	BD	NBEA	NC_056059.1	59665001	59685001
NC_056063.1	26580001	26600001	2.43303	0.371111	BD	NBEA	NC_056065.1	61780001	61800001
NC_056062.1	86695001	86715001	8.37662	0.315105	BD	NBN	NC_056065.1	61785001	61805001
NC_056062.1	86705001	86725001	6.28909	0.314383	BD	NBN;OSGIN2	NC_056065.1	61790001	61810001
NC_056062.1	86700001	86720001	8.2262	0.314203	BD	NBN;OSGIN2	NC_056067.1	51575001	51595001
NC_056059.1	38035001	38055001	5.86137	0.506885	BD	NCAPG	NC_056068.1	21450001	21470001
NC_056080.1	1.27E+08	127470001	13.4895	0.29433	BD	NCBP2L	NC_056068.1	82120001	82140001
NC_056054.1	2.53E+08	252945001	4.54741	0.592257	BD	NCK1	NC_056068.1	82125001	82145001
NC_056054.1	2.53E+08	252950001	5.78173	0.539076	BD	NCK1	NC_056068.1	82130001	82150001
NC_056054.1	2.53E+08	252940001	2.28142	0.51065	BD	NCK1	NC_056068.1	82135001	82155001
NC_056054.1	2.53E+08	252955001	5.41288	0.503152	BD	NCK1;SLC35G2	NC_056068.1	82140001	82160001
NC_056054.1	2.53E+08	252960001	3.4034	0.354031	BD	NCK1;SLC35G2	NC_056068.1	82145001	82165001
NC_056055.1	1.78E+08	177535001	2.34764	0.359903	BD	NCKAP5	NC_056068.1	82150001	82170001
NC_056056.1	32225001	32245001	4.60547	0.587886	BD	NCOA1	NC_056068.1	82155001	82175001
NC_056056.1	32230001	32250001	3.75893	0.552706	BD	NCOA1	NC_056068.1	82160001	82180001
NC_056056.1	32220001	32240001	2.76041	0.522851	BD	NCOA1	NW_024599828	1415001	1435001
NC_056070.1	51260001	51280001	2.33562	0.334143	BD	NCOR2	NW_024599828	1440001	1460001
NC_056070.1	51275001	51295001	2.12451	0.306789	BD	NCOR2	NC_056074.1	35150001	35170001
NC_056070.1	51265001	51285001	2.30035	0.304545	BD	NCOR2	NW_024599722	20001	40001
NC_056076.1	37360001	37380001	3.67077	0.398677	BD	NDC80	NW_024599722	25001	45001
NC_056076.1	37365001	37385001	3.05566	0.371281	BD	NDC80	NC_056067.1	51550001	51570001
NC_056080.1	57660001	57680001	4.17295	0.295246	BD	NDUFB11	NC_056067.1	51555001	51575001
NC_056054.1	2.59E+08	259405001	2.94533	0.521978	BD	NEK11	NC_056067.1	51560001	51580001
NC_056056.1	1.42E+08	141900001	3.19209	0.446018	BD	NELL2	NC_056067.1	51565001	51585001
NC_056055.1	1.28E+08	128145001	2.33641	0.39085	BD	NEUROD1	NC_056067.1	51570001	51590001
NC_056080.1	15915001	15935001	5.77366	0.650133	BD	NHS	NC_056069.1	23810001	23830001
NC_056080.1	15910001	15930001	7.19867	0.640359	BD	NHS	NC_056069.1	23815001	23835001
NC_056080.1	15920001	15940001	2.34586	0.521835	BD	NHS	NC_056080.1	81840001	81860001
NC_056080.1	15785001	15805001	3.3795	0.492378	BD	NHS	NC_056080.1	81845001	81865001
NC_056080.1	15630001	15650001	2.51315	0.395866	BD	NHS	NC_056080.1	131460001	131480001
NC_056080.1	15770001	15790001	6.37513	0.3837	BD	NHS	NC_056080.1	131465001	131485001
NC_056080.1	15625001	15645001	2.4972	0.349781	BD	NHS	NC_056055.1	146885001	146905001
NC_056080.1	15765001	15785001	3.55047	0.324965	BD	NHS	NC_056055.1	146890001	146910001
NC_056080.1	15740001	15760001	9.38345	0.316634	BD	NHS	NC_056054.1	116405001	116425001
NC_056080.1	15735001	15755001	7.32074	0.306721	BD	NHS	NC_056054.1	116410001	116430001
NC_056055.1	2.36E+08	236150001	3.69261	0.338493	BD	NKAIN1	NC_056054.1	116415001	116435001
NC_056055.1	2.36E+08	236155001	2.49636	0.332817	BD	NKAIN1	NC_056054.1	116420001	116440001
NC_056061.1	13940001	13960001	2.39178	0.468392	BD	NKAIN2	NC_056054.1	116425001	116445001
NC_056061.1	13935001	13955001	2.49949	0.429986	BD	NKAIN2	NC_056056.1	116420001	116440001
NC_056061.1	13930001	13950001	2.45901	0.408742	BD	NKAIN2	NC_056056.1	116425001	116445001
NC_056061.1	13955001	13975001	2.43572	0.324431	BD	NKAIN2	NC_056056.1	116430001	116450001
NC_056069.1	71345001	71365001	2.201	0.333585	BD	NKD2;SLC12A7	NC_056056.1	116435001	116455001

NC_056066.1	40245001	40265001	4.43396	0.377976	BD	NKX2-4	NC_056056.1	116440001	116460001
NC_056066.1	40240001	40260001	2.95082	0.402973	BD	NKX2-4;XRN2	NC_056059.1	113740001	113760001
NC_056066.1	40235001	40255001	2.26437	0.345818	BD	NKX2-4;XRN2	NC_056059.1	116285001	116305001
NC_056054.1	2.14E+08	214025001	2.78925	0.300697	BD	NLGN1	NC_056061.1	14935001	14955001
NC_056064.1	19670001	19690001	4.18461	0.712931	BD	NLK	NC_056061.1	14940001	14960001
NC_056064.1	19675001	19695001	3.14508	0.596233	BD	NLK	NC_056061.1	14945001	14965001
NC_056064.1	19680001	19700001	2.12766	0.407887	BD	NLK	NC_056061.1	14950001	14970001
NC_056057.1	67420001	67440001	2.1586	0.350099	BD	NOD1	NC_056061.1	14955001	14975001
NC_056076.1	23495001	23515001	2.72028	0.403917	BD	NOL4	NC_056061.1	14960001	14980001
NC_056076.1	23490001	23510001	2.77492	0.390356	BD	NOL4	NC_056061.1	14965001	14985001
NC_056076.1	23485001	23505001	2.9826	0.358407	BD	NOL4	NC_056061.1	14970001	14990001
NC_056076.1	23480001	23500001	2.18058	0.301441	BD	NOL4	NC_056061.1	14975001	14995001
NC_056055.1	37700001	37720001	2.1875	0.301079	BD	NOL6	NC_056061.1	14980001	15000001
NC_056070.1	57900001	57920001	3.79794	0.340104	BD	NOS1	NC_056054.1	90335001	90355001
NC_056071.1	34520001	34540001	4.14326	0.421115	BD	NOVA1	NC_056054.1	90340001	90360001
NC_056071.1	34525001	34545001	3.34326	0.405611	BD	NOVA1	NC_056054.1	90345001	90365001
NC_056071.1	34515001	34535001	3.23766	0.380622	BD	NOVA1	NC_056070.1	7355001	7375001
NC_056071.1	34530001	34550001	2.68377	0.380228	BD	NOVA1	NC_056063.1	16860001	16880001
NC_056057.1	73210001	73230001	3.66968	0.426679	BD	NPY	NC_056063.1	16865001	16885001
NC_056057.1	73205001	73225001	3.9138	0.421013	BD	NPY	NC_056063.1	16870001	16890001
NC_056057.1	73200001	73220001	2.11742	0.334514	BD	NPY	NC_056063.1	16875001	16895001
NC_056058.1	48760001	48780001	3.03942	0.315476	BD	NRG2	NC_056063.1	16880001	16900001
NC_056058.1	48765001	48785001	2.88757	0.299379	BD	NRG2	NC_056063.1	16885001	16905001
NC_056056.1	73505001	73525001	11.6267	0.456869	BD	NRXN1	NC_056063.1	16890001	16910001
NC_056056.1	73500001	73520001	8.12682	0.452333	BD	NRXN1	NC_056063.1	16895001	16915001
NC_056056.1	73495001	73515001	3.46901	0.402734	BD	NRXN1	NC_056063.1	16900001	16920001
NC_056056.1	74070001	74090001	3.99048	0.392625	BD	NRXN1	NC_056063.1	16905001	16925001
NC_056056.1	74075001	74095001	4.3511	0.380907	BD	NRXN1	NC_056059.1	15915001	15935001
NC_056056.1	74060001	74080001	2.6096	0.37881	BD	NRXN1	NC_056056.1	162410001	162430001
NC_056056.1	74065001	74085001	2.9655	0.37837	BD	NRXN1	NC_056056.1	162395001	162415001
NC_056056.1	73595001	73615001	2.98318	0.357179	BD	NRXN1	NC_056056.1	162400001	162420001
NC_056056.1	73600001	73620001	3.67436	0.353254	BD	NRXN1	NC_056056.1	80380001	80400001
NC_056056.1	73590001	73610001	2.28938	0.322308	BD	NRXN1	NC_056056.1	80385001	80405001
NC_056056.1	74080001	74100001	4.30911	0.312961	BD	NRXN1	NC_056060.1	17840001	17860001
NC_056056.1	73605001	73625001	3.97192	0.309549	BD	NRXN1	NC_056060.1	17845001	17865001
NC_056056.1	74085001	74105001	3.85277	0.303813	BD	NRXN1	NC_056054.1	3405001	3425001
NC_056056.1	74090001	74110001	2.20398	0.300726	BD	NRXN1	NC_056054.1	3400001	3420001
NC_056074.1	39400001	39420001	12.3187	0.308004	BD	NRXN2	NC_056074.1	17640001	17660001
NC_056060.1	88690001	88710001	2.25606	0.425668	BD	NRXN3	NC_056074.1	17645001	17665001
NC_056060.1	87430001	87450001	3.50753	0.422109	BD	NRXN3	NC_056060.1	48230001	4850001
NC_056060.1	88685001	88705001	2.38087	0.397663	BD	NRXN3	NC_056062.1	36115001	36135001
NC_056060.1	88680001	88700001	2.24966	0.339063	BD	NRXN3	NC_056055.1	242860001	242880001
NC_056060.1	88015001	88035001	2.3078	0.315651	BD	NRXN3	NC_056077.1	41460001	41480001
NC_056060.1	87960001	87980001	2.22206	0.311247	BD	NRXN3	NC_056077.1	41510001	41530001
NC_056060.1	88020001	88040001	2.25115	0.309243	BD	NRXN3	NC_056077.1	41515001	41535001
NC_056060.1	88025001	88045001	2.19283	0.304785	BD	NRXN3	NC_056077.1	41520001	41540001
NC_056060.1	87955001	87975001	2.33106	0.292298	BD	NRXN3	NC_056077.1	41525001	41545001
NC_056079.1	32510001	32530001	3.54545	0.395542	BD	NSD3;PLPP5	NC_056077.1	41530001	41550001
NC_056056.1	510001	530001	4.19076	0.464795	BD	NSMF;PNPLA7	NC_056077.1	41535001	41555001
NC_056056.1	505001	525001	3.81977	0.45211	BD	NSMF;PNPLA7	NC_056077.1	41540001	41560001
NC_056056.1	500001	520001	3.88343	0.440558	BD	NSMF;PNPLA7	NC_056077.1	41545001	41565001
NC_056056.1	515001	535001	2.96347	0.408474	BD	NSMF;PNPLA7	NC_056077.1	41550001	41570001
NC_056054.1	1.59E+08	159360001	2.53383	0.295722	BD	NSUN3	NC_056077.1	41555001	41575001
NC_056075.1	23490001	23510001	14.915	0.436928	BD	NT5C2	NC_056077.1	41560001	41580001
NC_056075.1	23485001	23505001	5.61182	0.410255	BD	NT5C2	NC_056077.1	41565001	41585001
NC_056075.1	23495001	23515001	6.83151	0.38878	BD	NT5C2	NC_056077.1	41570001	41590001
NC_056075.1	23480001	23500001	2.57346	0.334341	BD	NT5C2	NC_056077.1	41575001	41595001
NC_056074.1	31985001	32005001	17.7156	0.44909	BD	NTM	NC_056077.1	41580001	41600001
NC_056074.1	32055001	32075001	31.1334	0.389433	BD	NTM	NC_056080.1	53685001	53705001
NC_056074.1	32060001	32080001	7.91905	0.369699	BD	NTM	NC_056072.1	35960001	35980001
NC_056074.1	31980001	32000001	3.57003	0.352805	BD	NTM	NC_056072.1	35965001	35985001
NC_056074.1	32065001	32085001	2.80541	0.338737	BD	NTM	NC_056072.1	35970001	35990001
NC_056071.1	18650001	18670001	5.50002	0.631478	BD	NTRK3	NC_056080.1	42840001	42860001
NC_056071.1	18635001	18655001	2.6859	0.530613	BD	NTRK3	NC_056080.1	42845001	42865001
NC_056072.1	6365001	6385001	2.15122	0.409849	BD	OSBPL10	NC_056067.1	12505001	12525001
NC_056055.1	1.32E+08	131965001	3.09608	0.575606	BD	OSBPL6	NC_056078.1	41755001	41775001
NC_056055.1	1.32E+08	131970001	2.58886	0.552052	BD	OSBPL6	NC_056064.1	45670001	45690001
NC_056056.1	1.16E+08	116400001	2.28081	0.450284	BD	OTOGL	NC_056064.1	45675001	45695001
NC_056056.1	1.16E+08	116395001	3.12366	0.434252	BD	OTOGL	NC_056064.1	45680001	45700001
NC_056056.1	1.16E+08	116385001	2.78297	0.431259	BD	OTOGL	NC_056064.1	45685001	45705001
NC_056056.1	1.16E+08	116380001	2.32777	0.426297	BD	OTOGL	NC_056074.1	38665001	38685001
NC_056056.1	1.16E+08	116390001	3.1652	0.419694	BD	OTOGL	NC_056074.1	38670001	38690001
NC_056056.1	1.16E+08	116370001	2.23465	0.418964	BD	OTOGL	NC_056074.1	38690001	38710001
NC_056056.1	1.16E+08	116375001	2.21423	0.403371	BD	OTOGL	NC_056074.1	38695001	38715001

NC_056066.1	37875001	37895001	2.89491	0.348912	BD	OVOL2	NC_056067.1	14235001	14255001
NC_056066.1	37870001	37890001	2.29037	0.339752	BD	OVOL2	NC_056067.1	14240001	14260001
NC_056066.1	37880001	37900001	3.19426	0.329359	BD	OVOL2	NC_056054.1	237505001	237525001
NC_056066.1	37885001	37905001	3.47618	0.311352	BD	OVOL2	NC_056063.1	18245001	18265001
NC_056071.1	67420001	67440001	4.71163	0.537341	BD	PACS2;TEX22	NC_056063.1	18250001	18270001
NC_056071.1	67415001	67435001	2.29724	0.36896	BD	PACS2;TEX22	NC_056058.1	66375001	66395001
NW_024599828.1	1010001	1030001	2.72285	0.302366	BD	PAG3	NC_056058.1	66380001	66400001
NW_024599828.1	1015001	1035001	3.55567	0.291703	BD	PAG3	NC_056058.1	66385001	66405001
NC_056057.1	72800001	72820001	4.20593	0.323014	BD	PALS2	NC_056059.1	37500001	37520001
NC_056057.1	72805001	72825001	3.17241	0.311679	BD	PALS2	NC_056057.1	53095001	53115001
NC_056057.1	72810001	72830001	3.4101	0.308853	BD	PALS2	NC_056057.1	53100001	53120001
NC_056057.1	72795001	72815001	3.08761	0.295009	BD	PALS2	NC_056057.1	53110001	53130001
NC_056066.1	18385001	18405001	4.28631	0.345336	BD	PARD3	NC_056057.1	53115001	53135001
NC_056066.1	18390001	18410001	7.13056	0.328585	BD	PARD3	NC_056057.1	53120001	53140001
NC_056056.1	2.21E+08	220690001	3.55313	0.421809	BD	PARVB	NC_056057.1	53125001	53145001
NC_056056.1	2.21E+08	220695001	3.55756	0.326677	BD	PARVB	NC_056057.1	53150001	53170001
NC_056056.1	1.16E+08	115695001	3.09823	0.294209	BD	PAWR	NC_056057.1	53155001	53175001
NC_056072.1	48275001	48295001	2.13227	0.531695	BD	PBRM1	NC_056057.1	53160001	53180001
NC_056072.1	48270001	48290001	2.26766	0.528787	BD	PBRM1	NC_056057.1	53165001	53185001
NC_056074.1	41290001	41310001	2.25235	0.367911	BD	PC	NC_056068.1	57680001	57700001
NC_056054.1	2.66E+08	266250001	2.66105	0.533188	BD	PCBP3	NC_056068.1	57685001	57705001
NC_056054.1	2.66E+08	266245001	2.73114	0.532713	BD	PCBP3	NC_056056.1	118410001	118430001
NC_056054.1	2.66E+08	266240001	4.4451	0.432409	BD	PCBP3	NC_056056.1	118450001	118475001
NC_056063.1	76325001	76345001	4.3896	0.362497	BD	PCCA	NC_056056.1	118420001	118440001
NC_056063.1	76320001	76340001	2.9375	0.311554	BD	PCCA	NC_056056.1	118510001	118530001
NC_056075.1	4565001	4585001	2.80991	0.292735	BD	PCDH15	NC_056056.1	118515001	118535001
NC_056058.1	93370001	93390001	2.78658	0.447458	BD	PCSK1	NC_056056.1	118520001	118540001
NC_056058.1	93365001	93385001	7.89547	0.441309	BD	PCSK1	NC_056056.1	118525001	118545001
NC_056058.1	93360001	93380001	13	0.413696	BD	PCSK1	NC_056056.1	118530001	118550001
NC_056058.1	93355001	93375001	20.9841	0.38431	BD	PCSK1	NC_056076.1	37305001	37325001
NC_056058.1	93350001	93370001	7.06845	0.304473	BD	PCSK1	NC_056076.1	37310001	37330001
NC_056080.1	22940001	22960001	2.16072	0.300595	BD	PCYT1B	NC_056076.1	37315001	37335001
NC_056057.1	66145001	66165001	11.6402	0.437306	BD	PDE1C	NC_056076.1	37320001	37340001
NC_056057.1	66155001	66175001	25.9024	0.394536	BD	PDE1C	NC_056076.1	37325001	37345001
NC_056057.1	66150001	66170001	18.0407	0.390764	BD	PDE1C	NC_056076.1	37330001	37350001
NC_056057.1	66160001	66180001	33.991	0.383641	BD	PDE1C	NC_056076.1	37335001	37355001
NC_056057.1	66165001	66185001	22.0608	0.349821	BD	PDE1C	NC_056076.1	37340001	37360001
NC_056057.1	66115001	66135001	2.53163	0.332002	BD	PDE1C	NC_056076.1	37345001	37365001
NC_056057.1	66170001	66190001	13.7231	0.326064	BD	PDE1C	NC_056076.1	37350001	37370001
NC_056057.1	66120001	66140001	2.61242	0.318736	BD	PDE1C	NC_056076.1	37355001	37375001
NC_056057.1	66105001	66125001	2.16914	0.316906	BD	PDE1C	NC_056055.1	118840001	118860001
NC_056057.1	66110001	66130001	2.12207	0.31636	BD	PDE1C	NC_056070.1	18095001	18115001
NC_056057.1	66175001	66195001	4.6313	0.306019	BD	PDE1C	NC_056070.1	18100001	18120001
NC_056068.1	37830001	37850001	2.82153	0.32014	BD	PDE3B	NC_056068.1	40135001	40155001
NC_056068.1	37825001	37845001	2.64515	0.319252	BD	PDE3B	NC_056056.1	102145001	102165001
NC_056058.1	58960001	58980001	2.82185	0.349477	BD	PDE6A;PPARGC1B	NC_056056.1	102135001	102155001
NC_056058.1	58955001	58975001	2.69882	0.343483	BD	PDE6A;PPARGC1B	NC_056056.1	102140001	102160001
NC_056058.1	58950001	58970001	2.34417	0.317008	BD	PDE6A;PPARGC1B	NC_056058.1	19280001	19300001
NC_056058.1	58995001	59015001	2.19276	0.397808	BD	PDE6A;SLC26A2	NC_056058.1	19285001	19305001
NC_056054.1	2.64E+08	263700001	4.38898	0.321849	BD	PDE9A	NC_056056.1	225375001	225395001
NC_056054.1	2.64E+08	263705001	3.71915	0.308344	BD	PDE9A	NC_056056.1	225380001	225400001
NC_056064.1	48260001	48280001	2.92308	0.337437	BD	PECAM1	NC_056056.1	225385001	225405001
NC_056060.1	66790001	66810001	6.04312	0.351289	BD	PEL12	NC_056056.1	225360001	225380001
NC_056054.1	2.08E+08	208010001	2.54472	0.33272	BD	PEX5L	NC_056056.1	225365001	225385001
NC_056054.1	2.18E+08	217950001	2.14229	0.411817	BD	PHC3	NC_056056.1	225370001	225390001
NC_056054.1	2.18E+08	217955001	2.33397	0.407408	BD	PHC3	NC_056055.1	159875001	159895001
NC_056054.1	2.18E+08	217920001	2.35556	0.32002	BD	PHC3	NC_056055.1	159880001	159900001
NC_056057.1	20075001	20095001	5.86665	0.354767	BD	PHF14	NC_056055.1	159885001	159905001
NC_056057.1	20080001	20100001	3.05982	0.295536	BD	PHF14	NC_056055.1	159890001	159910001
NC_056054.1	97085001	97105001	3.20254	0.378796	BD	PHGDH	NC_056055.1	159895001	159915001
NC_056054.1	97075001	97095001	2.59901	0.371019	BD	PHGDH	NC_056055.1	159900001	159920001
NC_056054.1	97080001	97100001	2.30694	0.350552	BD	PHGDH	NC_056056.1	225410001	225430001
NC_056054.1	97070001	97090001	2.24786	0.344288	BD	PHGDH	NC_056056.1	225415001	225435001
NC_056054.1	97090001	97110001	2.87553	0.343005	BD	PHGDH	NC_056056.1	225420001	225440001
NC_056067.1	51405001	51425001	2.21179	0.297359	BD	PHLDB3	NC_056077.1	695001	715001
NC_056059.1	45375001	45395001	3.24239	0.452282	BD	PI4K2B	NC_056064.1	43550001	43570001
NC_056059.1	45380001	45400001	3.84559	0.427003	BD	PI4K2B	NC_056056.1	62710001	62730001
NC_056059.1	45370001	45390001	3.25845	0.426749	BD	PI4K2B	NC_056065.1	55585001	55605001
NC_056059.1	45365001	45385001	2.43032	0.399237	BD	PI4K2B	NC_056065.1	55595001	55615001
NC_056059.1	45385001	45405001	2.60242	0.371711	BD	PI4K2B	NC_056065.1	55600001	55620001
NC_056059.1	45390001	45410001	2.90613	0.304272	BD	PI4K2B	NC_056054.1	52015001	52035001
NC_056076.1	14240001	14260001	15.116	0.456028	BD	PIK3C3	NC_056054.1	52020001	52040001
NC_056076.1	14235001	14255001	15.0336	0.445923	BD	PIK3C3	NC_056054.1	52025001	52045001
NC_056076.1	14230001	14250001	7.15556	0.408144	BD	PIK3C3	NC_056070.1	62815001	62835001

NC_056076.1	14225001	14245001	2.53328	0.33188	BD	PIK3C3	NC_056070.1	62790001	62810001
NC_056076.1	14285001	14305001	21.189	0.292521	BD	PIK3C3	NC_056056.1	81550001	81570001
NC_056067.1	7275001	7295001	13.3986	0.516709	BD	PKD1L2	NC_056056.1	81555001	81575001
NC_056067.1	7270001	7290001	8.33332	0.508137	BD	PKD1L2	NC_056056.1	81565001	81585001
NC_056067.1	7280001	7300001	17.752	0.46137	BD	PKD1L2	NC_056056.1	81570001	81590001
NC_056067.1	7290001	7310001	5.13702	0.378958	BD	PKD1L2	NC_056062.1	43005001	43025001
NC_056067.1	7295001	7315001	3.05106	0.306269	BD	PKD1L2	NC_056062.1	43010001	43030001
NC_056056.1	7675001	7695001	2.25227	0.319519	BD	PKN3;ZDHHC12	NC_056062.1	43015001	43035001
NC_056067.1	7900001	7920001	2.84816	0.312661	BD	PLCG2	NC_056062.1	43020001	43040001
NC_056054.1	2.16E+08	216490001	20.1802	0.516703	BD	PLD1	NC_056062.1	43025001	43045001
NC_056054.1	2.16E+08	216495001	5.99134	0.482566	BD	PLD1	NC_056060.1	74610001	74630001
NC_056054.1	2.16E+08	216485001	16.9237	0.482266	BD	PLD1	NC_056060.1	74615001	74635001
NC_056054.1	2.16E+08	216500001	3.0254	0.456552	BD	PLD1	NC_056060.1	74620001	74640001
NC_056054.1	2.16E+08	216480001	16.5664	0.432324	BD	PLD1	NC_056070.1	69085001	69105001
NC_056054.1	2.16E+08	216460001	5.94118	0.406999	BD	PLD1	NC_056070.1	69090001	69110001
NC_056054.1	2.16E+08	216465001	16.4156	0.401414	BD	PLD1	NC_056065.1	41650001	41670001
NC_056054.1	2.16E+08	216455001	3.05499	0.369704	BD	PLD1	NC_056065.1	41745001	41765001
NC_056057.1	67845001	67865001	2.17257	0.386131	BD	PLEKHA8	NC_056065.1	41750001	41770001
NC_056057.1	67840001	67860001	2.24836	0.320489	BD	PLEKHA8	NC_056065.1	41755001	41775001
NC_056057.1	67810001	67830001	2.15384	0.308206	BD	PLEKHA8	NC_056065.1	41760001	41780001
NC_056054.1	2.43E+08	243020001	12.5619	0.468636	BD	PLOD2	NC_056060.1	10910001	10930001
NC_056054.1	2.43E+08	243015001	12.7869	0.466228	BD	PLOD2	NC_056063.1	83280001	83300001
NC_056054.1	2.43E+08	243000001	11.3289	0.462391	BD	PLOD2	NC_056063.1	83285001	83305001
NC_056054.1	2.43E+08	243010001	12	0.458541	BD	PLOD2	NC_056063.1	83290001	83310001
NC_056054.1	2.43E+08	243005001	9.5767	0.453588	BD	PLOD2	NC_056063.1	83295001	83315001
NC_056054.1	2.43E+08	243025001	8.57141	0.439171	BD	PLOD2	NC_056063.1	83300001	83320001
NC_056054.1	2.43E+08	242995001	5.11881	0.384161	BD	PLOD2	NC_056063.1	83330001	83350001
NC_056054.1	2.43E+08	243030001	3.43617	0.348553	BD	PLOD2	NC_056063.1	83335001	83355001
NC_056054.1	2.43E+08	242990001	3.67404	0.340832	BD	PLOD2	NC_056056.1	162550001	162570001
NC_056054.1	2.43E+08	243035001	2.53498	0.30372	BD	PLOD2	NC_056066.1	25855001	25875001
NC_056054.1	2.43E+08	243040001	2.29063	0.298921	BD	PLOD2	NC_056066.1	25860001	25880001
NC_056069.1	23905001	23925001	9.05838	0.32948	BD	PLPP1	NC_056060.1	56275001	56295001
NC_056069.1	23840001	23860001	6.72379	0.32931	BD	PLPP1	NC_056060.1	56280001	56300001
NC_056069.1	23900001	23920001	8.01116	0.31899	BD	PLPP1	NC_056076.1	37815001	37835001
NC_056069.1	23830001	23850001	5.14284	0.318376	BD	PLPP1	NC_056076.1	37820001	37840001
NC_056069.1	23895001	23915001	9.20709	0.3177	BD	PLPP1	NC_056076.1	37860001	37880001
NC_056069.1	23890001	23910001	8.87349	0.314671	BD	PLPP1	NC_056074.1	39695001	39715001
NC_056069.1	23835001	23855001	6.32379	0.313786	BD	PLPP1	NC_056074.1	39700001	39720001
NC_056069.1	23880001	23900001	6.1544	0.305732	BD	PLPP1	NC_056054.1	212670001	212690001
NC_056069.1	23885001	23905001	7.86792	0.30553	BD	PLPP1	NC_056056.1	112090001	112110001
NC_056069.1	23825001	23845001	3.09813	0.301589	BD	PLPP1	NC_056063.1	26585001	26605001
NC_056069.1	23875001	23895001	4.59701	0.301586	BD	PLPP1	NC_056063.1	26590001	26610001
NC_056069.1	23845001	23865001	4.90001	0.296899	BD	PLPP1	NC_056063.1	26595001	26615001
NC_056069.1	23855001	23875001	4.46602	0.296164	BD	PLPP1	NC_056063.1	26600001	26620001
NC_056054.1	2.47E+08	247025001	20.4943	0.676001	BD	PLS1	NC_056068.1	23215001	23235001
NC_056054.1	2.47E+08	247030001	2.10714	0.445554	BD	PLS1	NC_056068.1	23220001	23240001
NC_056056.1	490001	510001	4.64147	0.476693	BD	PNPLA7	NC_056068.1	23225001	23245001
NC_056056.1	480001	500001	4.14542	0.454006	BD	PNPLA7	NC_056068.1	23390001	23410001
NC_056056.1	485001	505001	3.77523	0.445103	BD	PNPLA7	NC_056068.1	23395001	23415001
NC_056056.1	495001	515001	3.50772	0.438586	BD	PNPLA7	NC_056068.1	23400001	23420001
NC_056056.1	475001	495001	2.8525	0.409512	BD	PNPLA7	NC_056068.1	82050001	82070001
NC_056060.1	7100001	7120001	2.14375	0.345848	BD	POC5	NC_056068.1	82055001	82075001
NC_056060.1	6945001	6965001	30.1649	0.47946	BD	POLK	NC_056068.1	82060001	82080001
NC_056060.1	6950001	6970001	32.7619	0.478178	BD	POLK	NC_056068.1	82065001	82085001
NC_056060.1	6955001	6975001	29.8831	0.435004	BD	POLK	NC_056055.1	126815001	126835001
NC_056060.1	6960001	6980001	25.2337	0.385905	BD	POLK	NC_056055.1	233210001	233230001
NC_056058.1	58915001	58935001	3.05491	0.387128	BD	PPARGC1B	NC_056055.1	233215001	233235001
NC_056058.1	58910001	58930001	2.26866	0.375175	BD	PPARGC1B	NC_056055.1	233220001	233240001
NC_056058.1	58920001	58940001	2.46396	0.374718	BD	PPARGC1B	NC_056070.1	51240001	51260001
NC_056058.1	58925001	58945001	2.1828	0.329749	BD	PPARGC1B	NC_056070.1	51250001	51270001
NC_056056.1	1.88E+08	187750001	3.25092	0.363821	BD	PPFIBP1	NC_056070.1	51255001	51275001
NC_056056.1	1.88E+08	187755001	3.4139	0.327034	BD	PPFIBP1	NC_056070.1	51370001	51390001
NC_056073.1	10855001	10875001	27.6309	0.307317	BD	PPIL1	NC_056070.1	51375001	51395001
NC_056073.1	10850001	10870001	24.9256	0.307019	BD	PPIL1	NC_056070.1	51380001	51400001
NC_056060.1	70535001	70555001	5.56731	0.503237	BD	PPM1A	NC_056076.1	37360001	37380001
NC_056060.1	70530001	70550001	5.22831	0.497851	BD	PPM1A	NC_056076.1	37365001	37385001
NC_056060.1	70540001	70560001	3.57851	0.458339	BD	PPM1A	NC_056064.1	27800001	27820001
NC_056060.1	70525001	70545001	3.81027	0.456005	BD	PPM1A	NC_056056.1	86830001	86850001
NC_056060.1	70520001	70540001	3.89309	0.455152	BD	PPM1A	NC_056054.1	47815001	47835001
NC_056060.1	70545001	70565001	2.87314	0.421448	BD	PPM1A	NC_056054.1	47820001	47840001
NC_056060.1	70515001	70535001	3.20513	0.395743	BD	PPM1A	NC_056054.1	47825001	47845001
NC_056056.1	80095001	80115001	6.61249	0.500034	BD	PPM1B	NC_056054.1	47830001	47850001
NC_056056.1	80090001	80110001	5.82292	0.490062	BD	PPM1B	NC_056074.1	21765001	21785001
NC_056056.1	80100001	80120001	4.93082	0.466438	BD	PPM1B	NC_056074.1	21770001	21790001

NC_056056.1	80085001	80105001	4.60957	0.465045	BD	PPM1B	NC_056060.1	19715001	19735001
NC_056056.1	80105001	80125001	4.3453	0.45084	BD	PPM1B	NC_056080.1	15625001	15645001
NC_056056.1	80080001	80100001	3.30623	0.441324	BD	PPM1B	NC_056080.1	15630001	15650001
NC_056056.1	80140001	80160001	2.2886	0.387904	BD	PPM1B	NC_056080.1	15735001	15755001
NC_056056.1	80135001	80155001	2.52586	0.35673	BD	PPM1B	NC_056080.1	15740001	15760001
NC_056056.1	80110001	80130001	2.13135	0.32616	BD	PPM1B	NC_056080.1	15765001	15785001
NC_056056.1	80145001	80165001	2.45126	0.324596	BD	PPM1B	NC_056080.1	15770001	15790001
NC_056056.1	80130001	80150001	2.12889	0.316623	BD	PPM1B	NC_056080.1	15785001	15805001
NC_056056.1	80150001	80170001	3.02624	0.302243	BD	PPM1B	NC_056069.1	31600001	31620001
NC_056059.1	37110001	37130001	3.55017	0.328181	BD	PPMIK	NC_056069.1	31605001	31625001
NC_056059.1	37115001	37135001	2.3542	0.324975	BD	PPMIK	NC_056069.1	31610001	31630001
NC_056059.1	37105001	37125001	3.7458	0.318645	BD	PPMIK	NC_056069.1	31615001	31635001
NC_056074.1	36505001	36525001	2.62313	0.36826	BD	PPP1R32	NC_056061.1	13895001	13915001
NC_056074.1	36510001	36530001	2.91261	0.315192	BD	PPP1R32	NC_056061.1	13900001	13920001
NC_056058.1	55725001	55745001	2.31423	0.379701	BD	PPP2R2B	NC_056062.1	40410001	40430001
NC_056058.1	55720001	55740001	2.34328	0.360118	BD	PPP2R2B	NC_056062.1	40415001	40435001
NC_056059.1	23925001	23945001	9.51733	0.361051	BD	PPP3CA	NC_056062.1	40420001	40440001
NC_056059.1	23930001	23950001	6.06449	0.313755	BD	PPP3CA	NC_056062.1	40425001	40445001
NC_056071.1	56700001	56720001	5.71536	0.300426	BD	PPP4R4	NC_056062.1	40430001	40450001
NC_056071.1	56705001	56725001	6.00321	0.29945	BD	PPP4R4	NC_056062.1	40435001	40455001
NC_056072.1	51180001	51200001	3.47442	0.335788	BD	PRKAR2A	NC_056062.1	40470001	40490001
NC_056064.1	61905001	61925001	2.58264	0.316122	BD	PRKCA	NC_056080.1	3695001	3715001
NC_056064.1	61910001	61930001	3.42196	0.312845	BD	PRKCA	NC_056080.1	3700001	3720001
NC_056061.1	85400001	85420001	2.36235	0.310213	BD	PRKN	NC_056080.1	3705001	3725001
NC_056061.1	85395001	85415001	2.40056	0.297657	BD	PRKN	NC_056064.1	19595001	19615001
NC_056059.1	1.12E+08	112050001	8.1392	0.380631	BD	PROM1	NC_056064.1	19600001	19620001
NC_056059.1	1.12E+08	112060001	18.4758	0.366642	BD	PROM1	NC_056064.1	19670001	19690001
NC_056059.1	1.12E+08	112055001	15.4475	0.358362	BD	PROM1	NC_056064.1	19675001	19695001
NC_056059.1	1.12E+08	112045001	3.23517	0.355413	BD	PROM1	NC_056064.1	19680001	19700001
NC_056059.1	1.12E+08	112065001	14.4539	0.353387	BD	PROM1	NC_056058.1	38435001	38455001
NC_056056.1	1.04E+08	104445001	7.03201	0.429141	BD	PROM2	NC_056058.1	38445001	38465001
NC_056056.1	1.04E+08	104450001	5.2235	0.407018	BD	PROM2	NC_056067.1	36350001	36370001
NC_056056.1	1.04E+08	104455001	2.84172	0.340934	BD	PROM2	NC_056076.1	23180001	23200001
NC_056066.1	15910001	15930001	13.2578	0.297706	BD	PROSER2	NC_056076.1	23185001	23205001
NC_056056.1	1.37E+08	136955001	3.73469	0.356123	BD	PRPH	NC_056076.1	23190001	23210001
NC_056056.1	1.37E+08	136960001	4.79435	0.334459	BD	PRPH	NC_056077.1	700001	720001
NC_056077.1	41750001	41770001	3.97446	0.366803	BD	PSMG3	NC_056057.1	73205001	73225001
NC_056077.1	41755001	41775001	3.73779	0.313494	BD	PSMG3;TMEM184A	NC_056057.1	73210001	73230001
NC_056073.1	49565001	49585001	2.28463	0.394125	BD	PSMG4;SLC22A23	NC_056078.1	36140001	36160001
NC_056073.1	49570001	49590001	2.64151	0.34772	BD	PSMG4;SLC22A23	NC_056078.1	36145001	36165001
NC_056054.1	19500001	19520001	2.60588	0.299991	BD	PTCH2	NC_056078.1	36305001	36325001
NC_056055.1	13930001	13950001	13.8086	0.383544	BD	PTPN3	NC_056078.1	36310001	36330001
NC_056055.1	13935001	13955001	16.2055	0.366653	BD	PTPN3	NC_056056.1	73290001	73310001
NC_056055.1	13940001	13960001	7.53622	0.318521	BD	PTPN3	NC_056056.1	73295001	73315001
NC_056055.1	13925001	13945001	7.74644	0.317118	BD	PTPN3	NC_056056.1	73380001	73400001
NC_056072.1	39220001	39240001	2.11238	0.519721	BD	PTPRG	NC_056056.1	73385001	73405001
NC_056072.1	39215001	39235001	3.14095	0.511908	BD	PTPRG	NC_056056.1	73390001	73410001
NC_056057.1	1.21E+08	120715001	2.29875	0.3424	BD	PTPRN2	NC_056056.1	73820001	73840001
NC_056057.1	1.21E+08	120710001	2.5362	0.337497	BD	PTPRN2	NC_056056.1	73825001	73845001
NC_056072.1	50975001	50995001	3.27207	0.328307	BD	QRICH1	NC_056056.1	73830001	73850001
NC_056072.1	50980001	51000001	3.00612	0.3214	BD	QRICH1	NC_056056.1	74050001	74075001
NC_056072.1	50970001	50990001	3.70662	0.321296	BD	QRICH1	NC_056056.1	74060001	74080001
NC_056072.1	50965001	50985001	3.71132	0.312997	BD	QRICH1	NC_056056.1	74065001	74085001
NC_056064.1	55985001	56005001	6.29765	0.334536	BD	RAB37	NC_056056.1	74070001	74090001
NC_056064.1	55980001	56000001	7.20491	0.319973	BD	RAB37;SLC9A3R1	NC_056056.1	74075001	74095001
NC_056054.1	2.56E+08	256140001	2.64261	0.578593	BD	RAB6B	NC_056056.1	74080001	74100001
NC_056054.1	2.56E+08	256145001	2.1831	0.520295	BD	RAB6B	NC_056056.1	74085001	74105001
NC_056054.1	52010001	52030001	5.95569	0.366845	BD	RABGGTB	NC_056056.1	74090001	74110001
NC_056058.1	19645001	19665001	3.79724	0.47029	BD	RAD50	NC_056056.1	74095001	74115001
NC_056058.1	19560001	19580001	2.77833	0.459197	BD	RAD50	NC_056060.1	88285001	88305001
NC_056058.1	19575001	19595001	6.07326	0.435594	BD	RAD50	NC_056060.1	88290001	88310001
NC_056058.1	19585001	19605001	4.67632	0.419265	BD	RAD50	NC_056079.1	32510001	32530001
NC_056058.1	19590001	19610001	3.53164	0.400072	BD	RAD50	NC_056071.1	25975001	25995001
NC_056058.1	19635001	19655001	3.74198	0.399324	BD	RAD50	NC_056071.1	25980001	26000001
NC_056058.1	19640001	19660001	3.63557	0.398203	BD	RAD50	NC_056075.1	23480001	23500001
NC_056058.1	19570001	19590001	4.03891	0.39727	BD	RAD50	NC_056075.1	23485001	23505001
NC_056058.1	19565001	19585001	3.408	0.396412	BD	RAD50	NC_056075.1	23490001	23510001
NC_056058.1	19580001	19600001	6.17264	0.392232	BD	RAD50	NC_056075.1	23495001	23515001
NC_056058.1	19555001	19575001	2.13991	0.348541	BD	RAD50	NC_056074.1	31980001	32000001
NC_056058.1	19595001	19615001	2.72633	0.342752	BD	RAD50	NC_056074.1	31985001	32005001
NC_056060.1	78075001	78095001	4.46728	0.534045	BD	RAD51B	NC_056074.1	32055001	32075001
NC_056060.1	78070001	78090001	2.15927	0.517753	BD	RAD51B	NC_056074.1	32775001	32795001
NC_056072.1	49245001	49265001	3.15772	0.409551	BD	RAD54L2	NC_056074.1	32810001	32830001
NC_056072.1	49240001	49260001	2.99086	0.405522	BD	RAD54L2	NC_056065.1	37055001	37075001

NC_056072.1	49235001	49255001	2.73717	0.392404	BD	RAD54L2	NC_056065.1	37060001	37080001
NC_056072.1	49230001	49250001	3.22868	0.422006	BD	RAD54L2;TEX264	NC_056065.1	37065001	37085001
NC_056072.1	49220001	49240001	3.32744	0.406979	BD	RAD54L2;TEX264	NC_056065.1	37070001	37090001
NC_056072.1	49225001	49245001	2.58075	0.382967	BD	RAD54L2;TEX264	NC_056063.1	54345001	54365001
NC_056079.1	39785001	39805001	19.4058	0.463128	BD	RARB	NC_056063.1	54350001	54370001
NC_056079.1	39780001	39800001	16.7192	0.395485	BD	RARB	NC_056057.1	78480001	78500001
NC_056079.1	39775001	39795001	12.8274	0.367426	BD	RARB	NC_056057.1	78485001	78505001
NC_056079.1	39770001	39790001	7.82992	0.318901	BD	RARB	NC_056057.1	78490001	78510001
NC_056079.1	39800001	39820001	14.9068	0.298783	BD	RARB	NC_056057.1	78495001	78515001
NC_056058.1	78075001	78095001	2.46056	0.319786	BD	RARS1	NC_056074.1	31595001	31615001
NC_056065.1	59015001	59035001	2.76028	0.565159	BD	RASAL2	NC_056074.1	31600001	31620001
NC_056065.1	59010001	59030001	4.05595	0.545307	BD	RASAL2	NC_056074.1	31605001	31625001
NC_056065.1	59005001	59025001	2.65939	0.462134	BD	RASAL2	NC_056076.1	32800001	32820001
NC_056065.1	59000001	59020001	2.72169	0.456696	BD	RASAL2	NC_056076.1	32805001	32825001
NC_056065.1	58995001	59015001	2.20935	0.439389	BD	RASAL2	NC_056076.1	32810001	32830001
NC_056065.1	59295001	59315001	6.75556	0.309892	BD	RASAL2	NC_056076.1	32815001	32835001
NC_056065.1	59315001	59335001	15.9005	0.30631	BD	RASAL2	NC_056076.1	32820001	32840001
NC_056077.1	6615001	6635001	4.48233	0.310955	BD	RBFOX1	NC_056056.1	116290001	116310001
NC_056077.1	6610001	6630001	4.09422	0.305519	BD	RBFOX1	NC_056056.1	116295001	116315001
NC_056077.1	6620001	6640001	3.84906	0.294868	BD	RBFOX1	NC_056056.1	116365001	116385001
NC_056064.1	52360001	52380001	2.13359	0.29859	BD	RBFOX3	NC_056056.1	116370001	116390001
NC_056064.1	52370001	52390001	2.2012	0.294514	BD	RBFOX3	NC_056056.1	116375001	116395001
NC_056066.1	58385001	58405001	2.20174	0.327115	BD	RBM38	NC_056056.1	116395001	116415001
NC_056072.1	4470001	4490001	3.31237	0.535546	BD	RBMS3	NC_056056.1	116400001	116420001
NC_056072.1	4465001	4485001	2.24678	0.494398	BD	RBMS3	NC_056056.1	116405001	116425001
NC_056072.1	4475001	4495001	2.37603	0.466759	BD	RBMS3	NC_056056.1	116410001	116430001
NC_056072.1	4485001	4505001	2.25878	0.403245	BD	RBMS3	NC_056061.1	86400001	86420001
NC_056065.1	42780001	42800001	4.2411	0.399457	BD	RBP7	NC_056061.1	86405001	86425001
NC_056065.1	42805001	42825001	3.5287	0.35643	BD	RBP7	NC_056061.1	86410001	86430001
NC_056068.1	19965001	19985001	2.11073	0.309019	BD	RDX	NC_056061.1	86415001	86435001
NC_056055.1	52420001	52440001	12.3396	0.339139	BD	RECK	NC_056061.1	86425001	86445001
NC_056057.1	46470001	46490001	4.30195	0.352736	BD	RELN	NC_056071.1	67415001	67435001
NC_056057.1	46475001	46495001	3.02174	0.309075	BD	RELN	NC_056071.1	67420001	67440001
NC_056056.1	1E+08	100195001	2.54717	0.369086	BD	RFX8	NC_056073.1	8670001	8690001
NC_056056.1	1E+08	100140001	19.843	0.362306	BD	RFX8	NC_056055.1	248965001	248985001
NC_056056.1	1E+08	100190001	2.47642	0.361178	BD	RFX8	NC_056055.1	248970001	248990001
NC_056056.1	1E+08	100185001	3.88001	0.30215	BD	RFX8	NC_056055.1	248975001	248995001
NC_056080.1	57685001	57705001	4.68719	0.309254	BD	RGN	NC_056055.1	248980001	249000001
NC_056065.1	34775001	34795001	8.60244	0.365771	BD	RGS7	NC_056055.1	248920001	248940001
NC_056065.1	34780001	34800001	20.5009	0.336716	BD	RGS7	NC_056055.1	248925001	248945001
NC_056065.1	63050001	63070001	2.36591	0.352584	BD	RGSL1;RNASEL	NC_056055.1	248930001	248950001
NC_056077.1	34565001	34585001	2.13453	0.34548	BD	RHBDD2	NC_056055.1	248935001	248955001
NC_056062.1	73885001	73905001	3.03041	0.324371	BD	RIMS2	NC_056055.1	248940001	248960001
NC_056065.1	63060001	63080001	2.77277	0.398792	BD	RNASEL	NC_056056.1	220670001	220690001
NC_056065.1	63065001	63085001	3.36741	0.389074	BD	RNASEL	NC_056068.1	81410001	81430001
NC_056065.1	63055001	63075001	2.2919	0.363765	BD	RNASEL	NC_056068.1	81415001	81435001
NC_056064.1	51715001	51735001	9.5085	0.532938	BD	RNF213	NC_056056.1	115670001	115690001
NC_056055.1	52105001	52125001	5.14286	0.549448	BD	RNF38	NC_056056.1	115675001	115695001
NC_056055.1	52125001	52145001	4.04838	0.499302	BD	RNF38	NC_056056.1	115685001	115705001
NC_056055.1	52130001	52150001	2.91639	0.374198	BD	RNF38	NC_056072.1	48270001	48290001
NC_056060.1	47140001	47160001	4.07945	0.421722	BD	RORA	NC_056072.1	48275001	48295001
NC_056060.1	47145001	47165001	3.25895	0.409043	BD	RORA	NC_056058.1	43995001	44015001
NC_056060.1	47135001	47155001	4.73475	0.359565	BD	RORA	NC_056058.1	44000001	44020001
NC_056060.1	47130001	47150001	5.67133	0.331586	BD	RORA	NC_056058.1	44005001	44025001
NC_056060.1	47125001	47145001	7.37553	0.317247	BD	RORA	NC_056058.1	44010001	44030001
NC_056054.1	69615001	69635001	4.09001	0.342833	BD	RPAP2	NC_056063.1	76315001	76335001
NC_056054.1	69605001	69625001	5.48487	0.303534	BD	RPAP2	NC_056063.1	76320001	76340001
NC_056054.1	69610001	69630001	4.82258	0.293632	BD	RPAP2	NC_056063.1	76325001	76345001
NC_056054.1	69595001	69615001	7.01665	0.29127	BD	RPAP2	NC_056054.1	246805001	246825001
NC_056061.1	48155001	48175001	4.38829	0.301554	BD	RRAGD	NC_056054.1	246810001	246830001
NC_056077.1	14185001	14205001	7.41669	0.628476	BD	RRN3	NC_056054.1	246815001	246835001
NC_056077.1	14190001	14210001	3.39732	0.500428	BD	RRN3	NC_056055.1	127655001	127675001
NC_056077.1	14195001	14215001	3.00793	0.449556	BD	RRN3	NC_056060.1	8630001	8650001
NC_056077.1	14200001	14220001	2.79862	0.38077	BD	RRN3	NC_056059.1	59650001	59670001
NC_056077.1	14205001	14225001	3.27211	0.299666	BD	RRN3	NC_056056.1	145545001	145565001
NC_056064.1	22910001	22930001	3.43769	0.335557	BD	RTN4RL1	NC_056056.1	145550001	145570001
NC_056078.1	9160001	9180001	3.60849	0.339804	BD	RYR2	NC_056070.1	29700001	29720001
NC_056055.1	1.07E+08	107395001	2.13167	0.310808	BD	SAP30	NC_056054.1	217930001	217950001
NC_056055.1	1.07E+08	107390001	2.12308	0.294662	BD	SAP30	NC_056054.1	217935001	217955001
NC_056058.1	43765001	43785001	2.2992	0.321234	BD	SAR1B	NC_056055.1	27940001	27960001
NC_056058.1	43760001	43780001	2.11175	0.312118	BD	SAR1B	NC_056055.1	27945001	27965001
NC_056058.1	43770001	43790001	2.45313	0.311419	BD	SAR1B	NC_056058.1	36995001	37015001
NC_056080.1	22210001	22210001	2.16316	0.314455	BD	SAT1	NC_056059.1	45375001	45395001
NC_056055.1	87565001	87585001	3.34106	0.383229	BD	SAXO1	NC_056059.1	45380001	45400001



NC_056055.1	87570001	87590001	2.58576	0.35796	BD	SAXO1	NC_056075.1	17770001	17790001
NC_056068.1	42260001	42280001	5.09386	0.412739	BD	SBF2	NC_056066.1	23030001	23050001
NC_056068.1	42265001	42285001	3.34537	0.392811	BD	SBF2	NC_056067.1	7270001	7290001
NC_056068.1	42255001	42275001	3.56686	0.346157	BD	SBF2	NC_056067.1	7275001	7295001
NC_056068.1	42250001	42270001	4.26907	0.317083	BD	SBF2	NC_056067.1	7280001	7300001
NC_056068.1	42245001	42265001	3.49229	0.2985	BD	SBF2	NC_056067.1	7290001	7310001
NC_056061.1	79310001	79330001	2.82774	0.383319	BD	SCAF8	NC_056075.1	20960001	20980001
NC_056061.1	79315001	79335001	2.8425	0.359067	BD	SCAF8	NC_056056.1	182585001	182605001
NC_056061.1	79320001	79340001	3.51948	0.349891	BD	SCAF8	NC_056066.1	1185001	1205001
NC_056055.1	1.44E+08	144175001	2.11792	0.359518	BD	SCN2A	NC_056067.1	7900001	7920001
NC_056068.1	28595001	28615001	2.43253	0.363044	BD	SCN2B	NC_056067.1	7905001	7925001
NC_056068.1	28600001	28620001	2.7645	0.29576	BD	SCN2B	NC_056054.1	216460001	216480001
NC_056068.1	28575001	28595001	2.13841	0.341493	BD	SCN4B	NC_056054.1	216465001	216485001
NC_056062.1	3450001	3470001	5.08499	0.487929	BD	SDHAF4	NC_056054.1	216485001	216505001
NC_056062.1	3455001	3475001	4.70559	0.479918	BD	SDHAF4	NC_056065.1	51135001	51155001
NC_056062.1	3460001	3480001	3.83308	0.454798	BD	SDHAF4	NC_056065.1	51140001	51160001
NC_056062.1	3465001	3485001	2.99058	0.421681	BD	SDHAF4	NC_056065.1	51145001	51165001
NC_056062.1	3470001	3490001	2.74399	0.401306	BD	SDHAF4	NC_056054.1	76675001	76695001
NC_056062.1	3480001	3500001	2.48596	0.341465	BD	SDHAF4	NC_056054.1	76680001	76700001
NC_056062.1	3475001	3495001	2.23031	0.335312	BD	SDHAF4	NC_056054.1	76685001	76705001
NC_056056.1	62445001	62465001	9.89005	0.539142	BD	SEPTIN10	NC_056054.1	76690001	76710001
NC_056056.1	62440001	62460001	7.51613	0.52972	BD	SEPTIN10	NC_056054.1	247005001	247025001
NC_056056.1	62450001	62470001	7.26984	0.524642	BD	SEPTIN10	NC_056054.1	247010001	247030001
NC_056056.1	62455001	62475001	5.70069	0.500484	BD	SEPTIN10	NC_056054.1	247035001	247055001
NC_056056.1	62415001	62435001	4.46386	0.496722	BD	SEPTIN10	NC_056054.1	247040001	247060001
NC_056056.1	62425001	62445001	5.12687	0.494885	BD	SEPTIN10	NC_056054.1	247045001	247065001
NC_056056.1	62410001	62430001	5.1069	0.494314	BD	SEPTIN10	NC_056066.1	20870001	20890001
NC_056056.1	62430001	62450001	5.39251	0.474259	BD	SEPTIN10	NC_056060.1	6945001	6965001
NC_056056.1	62435001	62455001	5.42056	0.470485	BD	SEPTIN10	NC_056060.1	6950001	6970001
NC_056056.1	62420001	62440001	5.11072	0.466406	BD	SEPTIN10	NC_056060.1	6955001	6975001
NC_056056.1	62405001	62425001	5.75467	0.490675	BD	SEPTIN10;SH3RF3	NC_056063.1	54340001	54360001
NC_056056.1	62460001	62480001	3.64444	0.424754	BD	SEPTIN10;SOWAHC	NC_056056.1	117325001	117345001
NC_056056.1	95065001	95085001	3.14973	0.382543	BD	SFXN5	NC_056056.1	117330001	117350001
NC_056056.1	95070001	95090001	2.41596	0.331664	BD	SFXN5	NC_056056.1	117335001	117355001
NC_056054.1	1.14E+08	113925001	7.05556	0.460393	BD	SH2D1B	NC_056056.1	117340001	117360001
NC_056054.1	1.14E+08	113930001	3.16666	0.353555	BD	SH2D1B	NC_056056.1	117345001	117365001
NC_056080.1	18245001	18265001	8.65253	0.406098	BD	SH3KBP1	NC_056056.1	117350001	117370001
NC_056080.1	18240001	18260001	3.01869	0.391696	BD	SH3KBP1	NC_056056.1	117695001	117715001
NC_056080.1	18115001	18135001	12.0956	0.380608	BD	SH3KBP1	NC_056056.1	117700001	117720001
NC_056080.1	18120001	18140001	9.52703	0.348553	BD	SH3KBP1	NC_056056.1	117705001	117725001
NC_056080.1	18095001	18115001	3.93087	0.338941	BD	SH3KBP1	NC_056056.1	131975001	131995001
NC_056056.1	62400001	62420001	4.0964	0.460847	BD	SH3RF3	NC_056055.1	127660001	127680001
NC_056056.1	62395001	62415001	3.3764	0.425254	BD	SH3RF3	NC_056055.1	127665001	127685001
NC_056056.1	62390001	62410001	2.46923	0.357216	BD	SH3RF3	NC_056055.1	127670001	127690001
NC_056074.1	43970001	43990001	3.26997	0.323448	BD	SHANK2	NC_056055.1	127675001	127695001
NC_056074.1	43975001	43995001	2.30621	0.31727	BD	SHANK2	NC_056055.1	127680001	127700001
NC_056074.1	43965001	43985001	3.4517	0.303312	BD	SHANK2	NC_056055.1	127685001	127705001
NC_056077.1	12415001	12435001	8.32307	0.496906	BD	SHISA9	NC_056055.1	127690001	127710001
NC_056077.1	12420001	12440001	4.76232	0.46061	BD	SHISA9	NC_056055.1	127695001	127715001
NC_056077.1	12425001	12445001	2.98782	0.452186	BD	SHISA9	NC_056058.1	55720001	55740001
NC_056077.1	12410001	12430001	4.63793	0.40702	BD	SHISA9	NC_056058.1	55725001	55745001
NC_056061.1	70400001	70420001	6.71052	0.523191	BD	SHPRH	NC_056059.1	23915001	23935001
NC_056061.1	70435001	70455001	4.31236	0.517909	BD	SHPRH	NC_056059.1	23920001	23940001
NC_056061.1	70395001	70415001	6.22802	0.512921	BD	SHPRH	NC_056059.1	23925001	23945001
NC_056061.1	70405001	70425001	3.87931	0.481341	BD	SHPRH	NC_056059.1	23930001	23950001
NC_056061.1	70390001	70410001	4.16164	0.474957	BD	SHPRH	NC_056059.1	23935001	23955001
NC_056061.1	70430001	70450001	2.13878	0.452749	BD	SHPRH	NC_056064.1	43555001	43575001
NC_056061.1	70440001	70460001	2.95703	0.450799	BD	SHPRH	NC_056065.1	49110001	49130001
NC_056061.1	70365001	70385001	2.50961	0.442789	BD	SHPRH	NC_056065.1	49115001	49135001
NC_056061.1	70350001	70370001	4.93289	0.406088	BD	SHPRH	NC_056065.1	49120001	49140001
NC_056061.1	70385001	70405001	2.43809	0.405444	BD	SHPRH	NC_056065.1	49125001	49145001
NC_056061.1	70345001	70365001	3.07272	0.328588	BD	SHPRH	NC_056065.1	49135001	49155001
NC_056074.1	25595001	25615001	4.79366	0.363043	BD	SIAE;SPA17	NC_056065.1	49140001	49160001
NC_056068.1	27360001	27380001	2.1622	0.358773	BD	SIK3	NC_056065.1	66835001	66855001
NC_056068.1	27405001	27425001	2.20569	0.354821	BD	SIK3	NC_056065.1	66840001	66860001
NC_056068.1	27345001	27365001	2.13281	0.321797	BD	SIK3	NC_056064.1	61905001	61925001
NC_056068.1	27365001	27385001	2.83451	0.300349	BD	SIK3	NC_056064.1	61910001	61930001
NC_056068.1	27400001	27420001	2.99849	0.299145	BD	SIK3	NC_056064.1	61915001	61935001
NC_056057.1	70795001	70815001	14.7571	0.62285	BD	SKAP2	NC_056064.1	61920001	61940001
NC_056057.1	70800001	70820001	8.92856	0.565209	BD	SKAP2	NC_056064.1	61970001	61990001
NC_056057.1	70865001	70885001	12.889	0.529925	BD	SKAP2	NC_056064.1	61975001	61995001
NC_056057.1	70870001	70890001	12.0762	0.503122	BD	SKAP2	NC_056064.1	61980001	62000001
NC_056057.1	70875001	70895001	9.48616	0.467779	BD	SKAP2	NC_056080.1	5585001	5605001
NC_056057.1	70880001	70900001	4.92555	0.441447	BD	SKAP2	NC_056059.1	112045001	112065001

NC_056057.1	70760001	70780001	6.63158	0.3345	BD	SKAP2	NC_056056.1	136935001	136955001
NC_056056.1	43290001	43310001	4.78265	0.315678	BD	SLC1A4	NC_056056.1	136940001	136960001
NC_056066.1	46935001	46955001	2.43201	0.313405	BD	SLC23A2	NC_056058.1	30875001	30895001
NC_056066.1	46940001	46960001	3.15352	0.305972	BD	SLC23A2	NC_056060.1	52875001	52895001
NC_056066.1	46945001	46965001	3.16103	0.295245	BD	SLC23A2	NC_056060.1	52880001	52900001
NC_056055.1	87980001	88000001	2.1871	0.325342	BD	SLC24A2	NC_056060.1	52885001	52905001
NC_056055.1	87985001	88005001	2.15325	0.321625	BD	SLC24A2	NC_056071.1	29875001	29895001
NC_056055.1	88010001	88030001	2.93282	0.318698	BD	SLC24A2	NC_056071.1	29880001	29900001
NC_056055.1	88005001	88025001	2.90232	0.300544	BD	SLC24A2	NC_056071.1	29885001	29905001
NC_056055.1	88015001	88035001	2.8911	0.299667	BD	SLC24A2	NC_056069.1	9370001	9390001
NC_056055.1	88020001	88040001	2.24898	0.29636	BD	SLC24A2	NC_056069.1	9375001	9395001
NC_056064.1	55535001	55555001	3.40106	0.345875	BD	SLC25A19	NC_056069.1	9380001	9400001
NC_056065.1	43200001	43220001	2.23152	0.37684	BD	SLC25A33	NC_056069.1	9385001	9405001
NC_056080.1	1.15E+08	115035001	2.97323	0.291708	BD	SLC25A43	NC_056072.1	39215001	39235001
NC_056058.1	1.07E+08	107250001	4.72467	0.402481	BD	SLC25A46	NC_056072.1	39220001	39240001
NC_056058.1	1.07E+08	107245001	3.58105	0.375723	BD	SLC25A46	NC_056072.1	39560001	39580001
NC_056058.1	1.07E+08	107240001	2.69302	0.369473	BD	SLC25A46	NC_056057.1	48095001	48115001
NC_056058.1	1.07E+08	107255001	4.02857	0.355841	BD	SLC25A46	NC_056057.1	48100001	48120001
NC_056058.1	1.07E+08	107260001	2.97647	0.329219	BD	SLC25A46	NC_056056.1	194330001	194350001
NC_056058.1	1.07E+08	107265001	3.1548	0.302548	BD	SLC25A46	NC_056064.1	43560001	43580001
NC_056058.1	1.07E+08	107235001	2.12272	0.372611	BD	SLC25A46;TMEM232	NC_056064.1	43565001	43585001
NC_056080.1	1.3E+08	129800001	4.96729	0.49923	BD	SLC25A53	NC_056059.1	4340001	4360001
NC_056080.1	1.3E+08	129795001	3	0.436583	BD	SLC25A53	NC_056059.1	175215001	175235001
NC_056074.1	40835001	40855001	3.60938	0.355644	BD	SLC29A2	NC_056055.1	175220001	175240001
NC_056074.1	40830001	40850001	4.57778	0.354641	BD	SLC29A2	NC_056065.1	55505001	55525001
NC_056056.1	1.48E+08	147600001	22.744	0.310078	BD	SLC2A13	NC_056065.1	55520001	55540001
NC_056056.1	1.48E+08	147595001	15.2432	0.307461	BD	SLC2A13	NC_056065.1	55525001	55545001
NC_056056.1	1.48E+08	147590001	10.2412	0.302176	BD	SLC2A13	NC_056065.1	55530001	55550001
NC_056054.1	2.33E+08	232590001	4.29897	0.369783	BD	SLC33A1	NC_056065.1	55535001	55555001
NC_056054.1	2.33E+08	232585001	8.584	0.352117	BD	SLC33A1	NC_056065.1	55540001	55560001
NC_056068.1	74775001	74795001	3.60158	0.291466	BD	SLC35C1	NC_056058.1	38115001	38135001
NC_056055.1	1.48E+08	147895001	3.37195	0.368988	BD	SLC4A10	NC_056060.1	78070001	78090001
NC_056055.1	1.48E+08	147900001	3.45202	0.315909	BD	SLC4A10	NC_056060.1	78075001	78095001
NC_056055.1	1.48E+08	147890001	2.29683	0.311742	BD	SLC4A10	NC_056060.1	78095001	78115001
NC_056054.1	2.18E+08	217650001	2.58933	0.361483	BD	SLC7A14	NC_056060.1	78100001	78120001
NC_056054.1	2.18E+08	217645001	2.34615	0.341219	BD	SLC7A14	NC_056060.1	78105001	78125001
NC_056067.1	35210001	35230001	3.4319	0.365828	BD	SLC7A6	NC_056060.1	78110001	78130001
NC_056067.1	35205001	35225001	2.55098	0.320871	BD	SLC7A6	NC_056060.1	78130001	78150001
NC_056067.1	35215001	35235001	2.90704	0.314735	BD	SLC7A6	NC_056060.1	78135001	78155001
NC_056067.1	35220001	35240001	2.52706	0.29686	BD	SLC7A6;SLC7A6OS	NC_056060.1	78140001	78160001
NC_056058.1	99025001	99045001	7.10675	0.361389	BD	SLCO6A1	NC_056080.1	16080001	16100001
NC_056058.1	99020001	99040001	10.6245	0.351131	BD	SLCO6A1	NC_056080.1	16085001	16105001
NC_056058.1	99015001	99035001	5.71021	0.325496	BD	SLCO6A1	NC_056056.1	8920001	8940001
NC_056058.1	99010001	99030001	2.92155	0.294752	BD	SLCO6A1	NC_056056.1	8925001	8945001
NC_056070.1	12795001	12815001	2.7603	0.722879	BD	SMAD1	NC_056056.1	8930001	8950001
NC_056070.1	12790001	12810001	2.57804	0.719807	BD	SMAD1	NC_056056.1	8935001	8955001
NC_056055.1	70330001	70350001	2.33504	0.396692	BD	SMARCA2	NC_056062.1	90765001	90785001
NC_056055.1	70335001	70355001	2.15283	0.390688	BD	SMARCA2	NC_056079.1	39800001	39820001
NC_056055.1	70340001	70360001	2.19186	0.337533	BD	SMARCA2	NC_056065.1	58990001	59010001
NC_056055.1	66305001	66325001	3.70348	0.365412	BD	SMC5	NC_056065.1	58995001	59015001
NC_056055.1	66315001	66335001	3.66827	0.361322	BD	SMC5	NC_056065.1	59000001	59020001
NC_056055.1	66310001	66330001	3.63578	0.356168	BD	SMC5	NC_056065.1	59230001	59250001
NC_056055.1	66325001	66345001	3.20513	0.346448	BD	SMC5	NC_056076.1	33925001	33945001
NC_056055.1	66320001	66340001	3.68449	0.34569	BD	SMC5	NC_056076.1	33930001	33950001
NC_056055.1	66330001	66350001	2.52062	0.296142	BD	SMC5	NC_056077.1	6100001	6120001
NC_056080.1	20050001	20070001	2.14376	0.439893	BD	SMPX	NC_056073.1	39310001	39330001
NC_056080.1	20055001	20075001	3.39444	0.380844	BD	SMPX	NC_056066.1	58385001	58405001
NC_056080.1	20060001	20080001	3.19908	0.306641	BD	SMPX	NC_056072.1	3865001	3885001
NC_056064.1	48530001	48550001	3.21054	0.314198	BD	SMURF2	NC_056072.1	3870001	3890001
NC_056064.1	48535001	48555001	3.85453	0.311869	BD	SMURF2	NC_056072.1	4460001	4480001
NC_056064.1	48520001	48540001	2.84999	0.307149	BD	SMURF2	NC_056072.1	4465001	4485001
NC_056064.1	48525001	48545001	3.24162	0.307099	BD	SMURF2	NC_056072.1	4470001	4490001
NC_056064.1	48515001	48535001	3.40425	0.303524	BD	SMURF2	NC_056072.1	4475001	4495001
NC_056062.1	32950001	32970001	2.44163	0.293223	BD	SNAI2	NC_056072.1	4480001	4500001
NC_056059.1	35555001	35575001	4.37282	0.39121	BD	SNCA	NC_056072.1	4485001	4505001
NC_056059.1	35560001	35580001	4.68893	0.356996	BD	SNCA	NC_056071.1	29845001	29865001
NC_056059.1	35550001	35570001	3.50183	0.325243	BD	SNCA	NC_056057.1	46420001	46440001
NC_056057.1	93680001	93700001	3.69862	0.424693	BD	SND1	NC_056057.1	46465001	46485001
NC_056057.1	93675001	93695001	2.99391	0.390832	BD	SND1	NC_056057.1	46470001	46490001
NC_056057.1	93670001	93690001	2.84928	0.386541	BD	SND1	NC_056057.1	46475001	46495001
NC_056057.1	93665001	93685001	2.45024	0.364502	BD	SND1	NC_056057.1	46480001	46500001
NC_056057.1	93685001	93705001	2.46129	0.330055	BD	SND1	NC_056057.1	46485001	46505001
NC_056080.1	63765001	63785001	3.15507	0.366484	BD	SNX12	NC_056057.1	46490001	46510001
NC_056058.1	28705001	28725001	4.85091	0.313161	BD	SNX2	NC_056057.1	46495001	46515001

NC_056056.1	77590001	77610001	2.95365	0.336799	BD	SOCS5	NC_056065.1	44165001	44185001
NC_056056.1	77585001	77605001	2.42613	0.295544	BD	SOCS5	NC_056065.1	44170001	44190001
NC_056064.1	58100001	58120001	3.37132	0.293001	BD	SOX9	NC_056065.1	44175001	44195001
NC_056064.1	24070001	24090001	5.59859	0.459609	BD	SPATA22	NC_056065.1	44180001	44200001
NC_056056.1	69480001	69500001	2.37699	0.377509	BD	SPTBN1	NC_056056.1	100120001	100140001
NC_056054.1	2.27E+08	226720001	2.23473	0.345249	BD	SPTSSB	NC_056056.1	100170001	100190001
NC_056069.1	66605001	66625001	2.15776	0.323871	BD	SRD5A1	NC_056056.1	100175001	100195001
NC_056073.1	9970001	9990001	11.66	0.459371	BD	SRPK1	NC_056065.1	63075001	63095001
NC_056073.1	9965001	9985001	11.81	0.446837	BD	SRPK1	NC_056065.1	63080001	63100001
NC_056073.1	9980001	10000001	10.5	0.422453	BD	SRPK1	NC_056077.1	34565001	34585001
NC_056073.1	9930001	9950001	4.78161	0.420571	BD	SRPK1	NC_056058.1	68340001	68360001
NC_056073.1	9960001	9980001	9.7523	0.414412	BD	SRPK1	NC_056058.1	68345001	68365001
NC_056073.1	9955001	9975001	8.38617	0.379136	BD	SRPK1	NC_056058.1	68350001	68370001
NC_056073.1	9950001	9970001	8.58592	0.374616	BD	SRPK1	NC_056058.1	68355001	68375001
NC_056073.1	9925001	9945001	3.79208	0.349714	BD	SRPK1	NC_056062.1	76990001	77010001
NC_056057.1	47980001	48000001	9.10991	0.384251	BD	SRPK2	NC_056062.1	76995001	77015001
NC_056057.1	47975001	47995001	7.45712	0.373569	BD	SRPK2	NC_056062.1	77000001	77020001
NC_056057.1	47985001	48005001	4.51561	0.318482	BD	SRPK2	NC_056062.1	77005001	77025001
NC_056057.1	47970001	47990001	6.14708	0.311288	BD	SRPK2	NC_056062.1	77010001	77030001
NC_056070.1	56265001	56285001	2.13766	0.322056	BD	SRRM4	NC_056062.1	77015001	77035001
NC_056070.1	56315001	56335001	9.50345	0.306395	BD	SRRM4	NC_056062.1	77020001	77040001
NC_056076.1	31110001	31130001	3.258	0.298621	BD	SS18	NC_056054.1	147580001	147600001
NC_056058.1	79240001	79260001	2.57517	0.311517	BD	SSBP2	NC_056054.1	147745001	147765001
NC_056062.1	20995001	21015001	6.96531	0.3853	BD	ST3GAL1	NC_056054.1	147750001	147770001
NC_056062.1	21000001	21020001	4.02846	0.296854	BD	ST3GAL1	NC_056054.1	145345001	145365001
NC_056063.1	28315001	28335001	3.91916	0.360702	BD	STARD13	NC_056076.1	35475001	35495001
NC_056080.1	61620001	61640001	4.0736	0.471381	BD	STARD8	NC_056076.1	35480001	35500001
NC_056064.1	42215001	42235001	2.12963	0.341595	BD	STAT3	NC_056076.1	35485001	35505001
NC_056057.1	73970001	73990001	3.61382	0.503057	BD	STEAP4	NC_056076.1	35520001	35540001
NC_056057.1	73980001	74000001	6.17561	0.463965	BD	STEAP4	NC_056060.1	47125001	47145001
NC_056057.1	73975001	73995001	3.89397	0.451585	BD	STEAP4	NC_056055.1	104520001	104540001
NC_056057.1	73985001	74005001	11.372	0.377744	BD	STEAP4	NC_056055.1	104525001	104545001
NC_056057.1	73990001	74010001	15.0434	0.299286	BD	STEAP4	NC_056055.1	104530001	104550001
NC_056057.1	73615001	73635001	3.11282	0.382959	BD	STK31	NC_056055.1	104535001	104555001
NC_056057.1	73610001	73630001	3.64015	0.346244	BD	STK31	NC_056056.1	59350001	59370001
NC_056057.1	73585001	73605001	4.90613	0.319898	BD	STK31	NC_056056.1	59355001	59375001
NC_056057.1	73580001	73600001	4.63889	0.316563	BD	STK31	NC_056056.1	59360001	59380001
NC_056057.1	73620001	73640001	2.87309	0.293808	BD	STK31	NC_056056.1	59365001	59385001
NC_056059.1	26995001	27015001	5.03808	0.477611	BD	STPG2	NC_056056.1	59370001	59390001
NC_056059.1	26990001	27010001	4.77068	0.470209	BD	STPG2	NC_056061.1	48155001	48175001
NC_056059.1	27000001	27020001	4.35761	0.460866	BD	STPG2	NC_056059.1	15920001	15940001
NC_056059.1	27005001	27025001	3.29853	0.421708	BD	STPG2	NC_056077.1	14185001	14205001
NC_056059.1	26985001	27005001	4.35412	0.405239	BD	STPG2	NC_056077.1	14190001	14210001
NC_056059.1	27010001	27030001	2.38701	0.380065	BD	STPG2	NC_056075.1	18420001	18440001
NC_056059.1	27015001	27035001	2.52519	0.357131	BD	STPG2	NC_056064.1	22910001	22930001
NC_056059.1	27030001	27050001	11.4545	0.351975	BD	STPG2	NC_056064.1	22915001	22935001
NC_056059.1	27020001	27040001	3.01779	0.339964	BD	STPG2	NC_056054.1	143435001	143455001
NC_056059.1	27025001	27045001	3.5226	0.33516	BD	STPG2	NC_056055.1	117445001	117465001
NC_056059.1	27035001	27055001	5.81726	0.329712	BD	STPG2	NC_056055.1	117450001	117470001
NC_056059.1	26980001	27000001	4.9706	0.306955	BD	STPG2	NC_056055.1	117460001	117480001
NC_056054.1	86100001	86120001	2.33036	0.324865	BD	STXPB3	NC_056055.1	117465001	117485001
NC_056057.1	81970001	81990001	6.63879	0.502115	BD	SUGCT	NC_056055.1	117470001	117490001
NC_056057.1	82070001	82090001	3.28659	0.49279	BD	SUGCT	NC_056055.1	117475001	117495001
NC_056057.1	81985001	82005001	5.99999	0.486816	BD	SUGCT	NC_056055.1	117480001	117500001
NC_056057.1	81890001	81910001	2.90154	0.459585	BD	SUGCT	NC_056055.1	117500001	117520001
NC_056057.1	81895001	81915001	2.53062	0.45709	BD	SUGCT	NC_056055.1	117505001	117525001
NC_056057.1	82220001	82240001	2.2358	0.432801	BD	SUGCT	NC_056055.1	117510001	117530001
NC_056057.1	82075001	82095001	2.62805	0.424803	BD	SUGCT	NC_056055.1	117515001	117535001
NC_056057.1	82290001	82310001	2.52247	0.420693	BD	SUGCT	NC_056055.1	107355001	107375001
NC_056057.1	82085001	82105001	2.73054	0.420403	BD	SUGCT	NC_056055.1	107360001	107380001
NC_056057.1	82080001	82100001	2.35678	0.412376	BD	SUGCT	NC_056055.1	107350001	107370001
NC_056057.1	82235001	82255001	2.31182	0.411009	BD	SUGCT	NC_056058.1	43765001	43785001
NC_056057.1	82395001	82415001	8.45712	0.400894	BD	SUGCT	NC_056058.1	43770001	43790001
NC_056057.1	81960001	81980001	2.42722	0.37149	BD	SUGCT	NC_056071.1	29710001	29730001
NC_056057.1	81965001	81985001	3.40575	0.371442	BD	SUGCT	NC_056071.1	29715001	29735001
NC_056057.1	81885001	81905001	2.61896	0.357257	BD	SUGCT	NC_056071.1	29720001	29740001
NC_056057.1	82415001	82435001	6.36669	0.332296	BD	SUGCT	NC_056071.1	29725001	29745001
NC_056066.1	76185001	76205001	2.53219	0.308984	BD	SULF2	NC_056070.1	29140001	29160001
NC_056066.1	76180001	76200001	2.78331	0.299172	BD	SULF2	NC_056070.1	29145001	29165001
NC_056066.1	76190001	76210001	2.23149	0.295741	BD	SULF2	NC_056070.1	29150001	29170001
NC_056066.1	61935001	61955001	2.55859	0.348068	BD	SUN5	NC_056070.1	29155001	29175001
NC_056066.1	61940001	61960001	2.43173	0.33017	BD	SUN5	NC_056070.1	29160001	29180001
NC_056060.1	79480001	79500001	4.17666	0.410963	BD	SUSD6	NC_056070.1	29165001	29185001
NC_056060.1	79475001	79495001	3.53058	0.396024	BD	SUSD6	NC_056070.1	29170001	29190001

NC_056060.1	79490001	79510001	2.80426	0.382788	BD	SUSD6	NC_056070.1	29175001	29195001
NC_056060.1	79470001	79490001	2.16607	0.342193	BD	SUSD6	NC_056077.1	21525001	21545001
NC_056060.1	79495001	79515001	2.20705	0.310847	BD	SUSD6	NC_056077.1	21530001	21550001
NC_056071.1	15315001	15335001	2.32669	0.298429	BD	SV2B	NC_056062.1	3465001	3485001
NC_056071.1	15320001	15340001	2.48545	0.29583	BD	SV2B	NC_056062.1	3470001	3490001
NC_056060.1	7550001	7570001	3.83973	0.302882	BD	SV2C	NC_056056.1	62410001	62430001
NC_056060.1	7545001	7565001	3.06911	0.295484	BD	SV2C	NC_056056.1	62415001	62435001
NC_056066.1	34105001	34125001	2.11511	0.361715	BD	SVIL	NC_056056.1	62420001	62440001
NC_056068.1	42660001	42680001	3.54969	0.47868	BD	SWAP70	NC_056056.1	62425001	62445001
NC_056068.1	42665001	42685001	2.60788	0.447114	BD	SWAP70	NC_056056.1	62430001	62450001
NC_056072.1	56940001	56960001	2.60424	0.31879	BD	SYN2	NC_056056.1	62435001	62455001
NC_056058.1	59720001	59740001	16.7913	0.478541	BD	SYNPO	NC_056056.1	62440001	62460001
NC_056058.1	59725001	59745001	10.4002	0.458191	BD	SYNPO	NC_056056.1	62445001	62465001
NC_056058.1	59730001	59750001	6.43157	0.350235	BD	SYNPO	NC_056056.1	62450001	62470001
NC_056056.1	1.15E+08	115465001	2.63516	0.416057	BD	SYT1	NC_056056.1	62455001	62475001
NC_056056.1	1.82E+08	181965001	2.49447	0.369356	BD	SYT10	NC_056056.1	62405001	62425001
NC_056056.1	1.82E+08	181940001	3.79956	0.344859	BD	SYT10	NC_056056.1	62460001	62480001
NC_056056.1	1.82E+08	181935001	2.58738	0.336848	BD	SYT10	NC_056064.1	53830001	53850001
NC_056056.1	1.82E+08	181960001	2.54191	0.33084	BD	SYT10	NC_056079.1	35535001	35555001
NC_056056.1	1.82E+08	181945001	4.44828	0.322988	BD	SYT10	NC_056058.1	65505001	65525001
NC_056054.1	1.06E+08	105915001	8.36031	0.405697	BD	SYT11;YY1API	NC_056058.1	65510001	65530001
NC_056054.1	1.06E+08	105910001	4.04349	0.312648	BD	SYT11;YY1API	NC_056058.1	65515001	65535001
NC_056074.1	46030001	46050001	5.10238	0.350782	BD	SYT8	NC_056055.1	86170001	86190001
NC_056074.1	46025001	46045001	3.72544	0.300504	BD	SYT8;TNNI2	NC_056055.1	86175001	86195001
NC_056068.1	44965001	44985001	3.1726	0.364324	BD	SYT9	NC_056080.1	18220001	18240001
NC_056068.1	44960001	44980001	2.45842	0.338268	BD	SYT9	NC_056080.1	18245001	18265001
NC_056068.1	44970001	44990001	2.36613	0.328348	BD	SYT9	NC_056056.1	62395001	62415001
NC_056080.1	37245001	37265001	2.45219	0.306893	BD	SYTL5	NC_056056.1	62400001	62420001
NC_056075.1	41485001	41505001	6.85811	0.409656	BD	TACC2	NC_056077.1	12405001	12425001
NC_056075.1	41490001	41510001	4.3339	0.338469	BD	TACC2	NC_056077.1	12410001	12430001
NC_056064.1	47380001	47400001	2.21748	0.35661	BD	TANC2	NC_056077.1	12415001	12435001
NC_056067.1	35790001	35810001	17.9444	0.303488	BD	TANGO6	NC_056077.1	12420001	12440001
NC_056059.1	46660001	46680001	2.80366	0.313492	BD	TBC1D19	NC_056077.1	12425001	12445001
NC_056059.1	19330001	19350001	2.20885	0.337548	BD	TBCK	NC_056080.1	54435001	54455001
NC_056059.1	19335001	19355001	2.37314	0.309115	BD	TBCK	NC_056068.1	21640001	21660001
NC_056059.1	19340001	19360001	2.40266	0.307709	BD	TBCK	NC_056068.1	27330001	27350001
NC_056058.1	55355001	55375001	2.29167	0.36251	BD	TCERG1	NC_056068.1	27340001	27360001
NC_056060.1	51345001	51365001	2.28402	0.442586	BD	TCF12	NC_056068.1	27365001	27385001
NC_056060.1	51340001	51360001	2.23	0.409547	BD	TCF12	NC_056068.1	27370001	27390001
NC_056060.1	51350001	51370001	2.94737	0.372855	BD	TCF12	NC_056068.1	27375001	27395001
NC_056060.1	51355001	51375001	2.47619	0.362683	BD	TCF12	NC_056068.1	27380001	27400001
NC_056060.1	51510001	51530001	2.39881	0.341096	BD	TCF12	NC_056068.1	27385001	27405001
NC_056060.1	51360001	51380001	2.78632	0.311996	BD	TCF12	NC_056068.1	27390001	27410001
NC_056054.1	1.05E+08	104770001	2.1053	0.316611	BD	TDRD10	NC_056068.1	27395001	27415001
NC_056054.1	1.05E+08	104775001	2.33406	0.302456	BD	TDRD10	NC_056068.1	27400001	27420001
NC_056054.1	1.05E+08	104780001	2.10032	0.293695	BD	TDRD10	NC_056068.1	27405001	27425001
NC_056055.1	50215001	50235001	15.525	0.6304	BD	TDRD7	NC_056068.1	27415001	27435001
NC_056080.1	1.09E+08	109020001	4.59091	0.520167	BD	TENM1	NC_056068.1	27445001	27465001
NC_056080.1	1.09E+08	109025001	3.71213	0.4412	BD	TENM1	NC_056068.1	27450001	27470001
NC_056080.1	1.09E+08	108975001	2.21634	0.353137	BD	TENM1	NC_056068.1	27455001	27475001
NC_056080.1	1.09E+08	109015001	2.50344	0.322354	BD	TENM1	NC_056068.1	27460001	27480001
NC_056074.1	15000001	15020001	2.66964	0.297176	BD	TENM4	NC_056060.1	5045001	5065001
NC_056070.1	58030001	58050001	5.04325	0.347957	BD	TESC	NC_056060.1	5050001	5070001
NC_056078.1	24210001	24230001	2.66431	0.363132	BD	TET1	NC_056060.1	5070001	5090001
NC_056078.1	24205001	24225001	3.56807	0.352785	BD	TET1	NC_056060.1	5075001	5095001
NC_056078.1	24235001	24255001	2.49885	0.340336	BD	TET1	NC_056060.1	5080001	5100001
NC_056078.1	24200001	24220001	5.57778	0.335997	BD	TET1	NC_056060.1	5085001	5105001
NC_056078.1	24240001	24260001	3.88135	0.307016	BD	TET1	NC_056064.1	37955001	37975001
NC_056080.1	63555001	63575001	5.1087	0.377107	BD	TEX11	NC_056064.1	37960001	37980001
NC_056080.1	63560001	63580001	3.15556	0.341543	BD	TEX11	NC_056057.1	70705001	70725001
NC_056080.1	63550001	63570001	3.32707	0.315074	BD	TEX11	NC_056057.1	70725001	70745001
NC_056064.1	48085001	48105001	2.11507	0.444607	BD	TEX2	NC_056057.1	70750001	70770001
NC_056064.1	48160001	48180001	12.5429	0.372452	BD	TEX2	NC_056057.1	70755001	70775001
NC_056064.1	48150001	48170001	4.80052	0.363635	BD	TEX2	NC_056057.1	70760001	70780001
NC_056064.1	48145001	48165001	2.76131	0.329351	BD	TEX2	NC_056057.1	70795001	70815001
NC_056064.1	48155001	48175001	4.43379	0.313078	BD	TEX2	NC_056057.1	70800001	70820001
NC_056072.1	49205001	49225001	3.16666	0.452505	BD	TEX264	NC_056057.1	70865001	70885001
NC_056072.1	49215001	49235001	3.6	0.416202	BD	TEX264	NC_056057.1	70870001	70890001
NC_056072.1	49210001	49230001	3.20556	0.40605	BD	TEX264	NC_056057.1	70875001	70895001
NC_056065.1	59330001	59350001	2.89971	0.481084	BD	TEX35	NC_056057.1	70880001	70900001
NC_056065.1	59325001	59345001	6.59623	0.422188	BD	TEX35	NC_056056.1	199250001	199270001
NC_056065.1	59320001	59340001	12.1196	0.394037	BD	TEX35	NC_056056.1	199255001	199275001
NC_056055.1	2.33E+08	233345001	2.66793	0.33793	BD	TEX44	NC_056056.1	199260001	199280001
NC_056055.1	2.33E+08	233340001	3.01572	0.334697	BD	TEX44	NC_056080.1	66615001	66635001

NC_056055.1	2.33E+08	233335001	3.46341	0.315689	BD	TEX44	NC_056080.1	66620001	66640001
NC_056073.1	22925001	22945001	2.48808	0.300979	BD	TFAP2D	NC_056080.1	66625001	66645001
NC_056062.1	21300001	21320001	7.63692	0.425703	BD	TG	NC_056080.1	66640001	66660001
NC_056076.1	38015001	38035001	7.61687	0.320172	BD	TGFI1	NC_056061.1	84250001	84270001
NC_056074.1	45745001	45765001	2.36093	0.408394	BD	TH	NC_056061.1	84255001	84275001
NC_056056.1	80640001	80660001	12.6747	0.468493	BD	THADA	NC_056066.1	46940001	46960001
NC_056056.1	80635001	80655001	2.13816	0.416448	BD	THADA	NC_056066.1	46945001	46965001
NC_056056.1	80765001	80785001	3.00941	0.413429	BD	THADA	NC_056080.1	115015001	115035001
NC_056056.1	80930001	80950001	10.6138	0.370675	BD	THADA	NC_056074.1	40830001	40850001
NC_056056.1	80910001	80930001	21.7857	0.35442	BD	THADA	NC_056074.1	40835001	40855001
NC_056056.1	80770001	80790001	2.61952	0.342125	BD	THADA	NC_056074.1	40840001	40860001
NC_056056.1	80935001	80955001	4.62163	0.295245	BD	THADA	NC_056054.1	17380001	17400001
NC_056060.1	18475001	18495001	4.18884	0.449727	BD	THSD4	NC_056056.1	147600001	147620001
NC_056060.1	18480001	18500001	2.92606	0.423898	BD	THSD4	NC_056056.1	147605001	147625001
NC_056060.1	18470001	18490001	3.14551	0.380147	BD	THSD4	NC_056056.1	147610001	147630001
NC_056065.1	25835001	25855001	2.24614	0.313422	BD	TLR5	NC_056056.1	147615001	147635001
NC_056056.1	1.37E+08	136560001	2.50653	0.373835	BD	TMBIM6	NC_056064.1	57345001	57365001
NC_056056.1	1.37E+08	136565001	2.95541	0.325017	BD	TMBIM6	NC_056067.1	23370001	23390001
NC_056060.1	4450001	4470001	13.0662	0.380706	BD	TMED7	NC_056067.1	23375001	23395001
NC_056060.1	4460001	4480001	6.87599	0.313918	BD	TMED7	NC_056067.1	35205001	35225001
NC_056055.1	22575001	22595001	2.93112	0.373237	BD	TMEFF1	NC_056067.1	35210001	35230001
NC_056054.1	2.57E+08	257060001	2.29114	0.496682	BD	TMEM108	NC_056067.1	35215001	35235001
NC_056054.1	2.57E+08	257055001	2.67302	0.458258	BD	TMEM108	NC_056060.1	21480001	21500001
NC_056054.1	2.57E+08	257050001	2.30804	0.449432	BD	TMEM108	NC_056060.1	21485001	21505001
NC_056054.1	2.57E+08	256970001	2.36597	0.296758	BD	TMEM108	NC_056060.1	21490001	21510001
NC_056074.1	7795001	7815001	2.60961	0.316919	BD	TMEM135	NC_056067.1	42770001	42790001
NC_056056.1	45725001	45745001	11.8045	0.365839	BD	TMEM17	NC_056067.1	42775001	42795001
NC_056056.1	45730001	45750001	6.06896	0.325267	BD	TMEM17	NC_056067.1	42780001	42800001
NC_056056.1	45720001	45740001	4.76956	0.304245	BD	TMEM17	NC_056067.1	42765001	42785001
NC_056056.1	84495001	84515001	2.11727	0.443363	BD	TMEM178A	NC_056056.1	194335001	194355001
NC_056056.1	84470001	84490001	2.96357	0.359157	BD	TMEM178A	NC_056056.1	194340001	194360001
NC_056056.1	84465001	84485001	2.10169	0.309721	BD	TMEM178A	NC_056056.1	194345001	194365001
NC_056056.1	99020001	99040001	2.90387	0.336581	BD	TMEM182	NC_056077.1	16950001	16970001
NC_056056.1	99015001	99035001	3.38883	0.31313	BD	TMEM182	NC_056077.1	16955001	16975001
NC_056056.1	98985001	99005001	2.25414	0.299399	BD	TMEM182	NC_056077.1	16960001	16980001
NC_056057.1	29555001	29575001	2.39192	0.376858	BD	TMEM196	NC_056077.1	16965001	16985001
NC_056057.1	29560001	29580001	2.40631	0.34631	BD	TMEM196	NC_056077.1	16970001	16990001
NC_056077.1	28770001	28790001	3.28667	0.323411	BD	TMEM248	NC_056077.1	16975001	16995001
NC_056071.1	55620001	55640001	2.39297	0.314727	BD	TMEM251	NC_056077.1	16980001	17000001
NC_056056.1	1.68E+08	168280001	7.55921	0.369464	BD	TMPO	NC_056067.1	35950001	35970001
NC_056056.1	1.68E+08	168285001	5.80103	0.341237	BD	TMPO	NC_056067.1	35955001	35975001
NC_056056.1	1.68E+08	168275001	4.29393	0.335172	BD	TMPO	NC_056067.1	35980001	36000001
NC_056056.1	1.68E+08	168270001	3.04789	0.328375	BD	TMPO	NC_056067.1	35985001	36005001
NC_056056.1	1.68E+08	168295001	2.86096	0.325626	BD	TMPO	NC_056056.1	191340001	191360001
NC_056056.1	1.68E+08	168290001	3.54198	0.3223	BD	TMPO	NC_056056.1	191345001	191365001
NC_056056.1	1.68E+08	168305001	2.34912	0.32008	BD	TMPO	NC_056056.1	191350001	191370001
NC_056056.1	1.68E+08	168300001	2.32021	0.305322	BD	TMPO	NC_056056.1	191355001	191375001
NC_056056.1	1.19E+08	118960001	8.53076	0.334451	BD	TMTC2	NC_056056.1	191360001	191380001
NC_056056.1	1.19E+08	118970001	2.8018	0.330857	BD	TMTC2	NC_056056.1	191365001	191385001
NC_056056.1	1.19E+08	118965001	5.90051	0.318682	BD	TMTC2	NC_056056.1	191370001	191390001
NC_056056.1	1.19E+08	118955001	13.0492	0.312888	BD	TMTC2	NC_056056.1	191665001	191685001
NC_056066.1	470001	490001	7.02607	0.369264	BD	TMX4	NC_056056.1	191670001	191690001
NC_056066.1	475001	495001	3.2331	0.35777	BD	TMX4	NC_056056.1	191675001	191695001
NC_056066.1	465001	485001	6.66932	0.332962	BD	TMX4	NC_056056.1	191680001	191700001
NC_056065.1	39940001	39960001	2.56447	0.291656	BD	TNFSF18	NC_056056.1	191685001	191705001
NC_056065.1	40070001	40090001	2.25771	0.389509	BD	TNFSF4	NC_056056.1	191690001	191710001
NC_056055.1	8875001	8895001	4.47485	0.428407	BD	TNFSF8	NC_056056.1	191695001	191715001
NC_056055.1	8870001	8890001	2.1	0.364532	BD	TNFSF8	NC_056066.1	22905001	22925001
NC_056055.1	8880001	8900001	2.47716	0.354645	BD	TNFSF8	NC_056063.1	34445001	34465001
NC_056079.1	24700001	24720001	9.46154	0.427201	BD	TNKS	NC_056063.1	34465001	34485001
NC_056079.1	24695001	24715001	4.07605	0.375988	BD	TNKS	NC_056063.1	34470001	34490001
NC_056079.1	24705001	24725001	3.86973	0.318889	BD	TNKS	NC_056063.1	34475001	34495001
NC_056057.1	76610001	76630001	2.52289	0.473531	BD	TNS3	NC_056063.1	34480001	34500001
NC_056057.1	76490001	76510001	4.61958	0.427284	BD	TNS3	NC_056079.1	6990001	7010001
NC_056057.1	76495001	76515001	2.8976	0.367473	BD	TNS3	NC_056069.1	1655001	1675001
NC_056057.1	76485001	76505001	3.01579	0.358141	BD	TNS3	NC_056069.1	1660001	1680001
NC_056057.1	76470001	76490001	3.16131	0.358073	BD	TNS3	NC_056069.1	1665001	1685001
NC_056057.1	76475001	76495001	3.20468	0.344414	BD	TNS3	NC_056058.1	57115001	57135001
NC_056057.1	76465001	76485001	2.9327	0.323843	BD	TNS3	NC_056067.1	14220001	14240001
NC_056057.1	76480001	76500001	2.80153	0.308716	BD	TNS3	NC_056067.1	14225001	14245001
NC_056062.1	16435001	16455001	3.3659	0.310811	BD	TRAPPC9	NC_056059.1	117930001	117950001
NC_056056.1	1.09E+08	108570001	6.64239	0.540925	BD	TRHDE	NC_056059.1	117935001	117955001
NC_056056.1	1.09E+08	108565001	5.13636	0.515927	BD	TRHDE	NC_056059.1	37375001	37395001
NC_056056.1	1.09E+08	108560001	2.85382	0.464506	BD	TRHDE	NC_056060.1	86840001	86860001

NC_056056.1	1.09E+08	108575001	2.8072	0.459654	BD	TRHDE	NC_056070.1	56265001	56285001
NC_056056.1	1.09E+08	108535001	2.17903	0.302263	BD	TRHDE	NC_056070.1	56270001	56290001
NC_056080.1	44320001	44340001	19.2621	0.52169	BD	TRIM60	NC_056070.1	56290001	56310001
NC_056080.1	44325001	44345001	18.1918	0.470335	BD	TRIM60	NC_056070.1	56295001	56315001
NC_056080.1	44330001	44350001	10.5952	0.356003	BD	TRIM60	NC_056070.1	56300001	56320001
NC_056062.1	61965001	61985001	7.85712	0.390955	BD	TRPS1	NC_056070.1	56315001	56335001
NC_056062.1	61935001	61955001	2.96939	0.370506	BD	TRPS1	NC_056070.1	56320001	56340001
NC_056062.1	61960001	61980001	5.18584	0.36685	BD	TRPS1	NC_056070.1	56325001	56345001
NC_056062.1	61970001	61990001	4.28096	0.341281	BD	TRPS1	NC_056056.1	189385001	189405001
NC_056062.1	61940001	61960001	2.58572	0.331812	BD	TRPS1	NC_056056.1	189390001	189410001
NC_056062.1	61945001	61965001	2.7599	0.328079	BD	TRPS1	NC_056056.1	189395001	189415001
NC_056062.1	61950001	61970001	3.20158	0.327555	BD	TRPS1	NC_056056.1	189400001	189420001
NC_056062.1	61930001	61950001	3.22671	0.312487	BD	TRPS1	NC_056063.1	28315001	28335001
NC_056062.1	61975001	61995001	3.96327	0.307913	BD	TRPS1	NC_056057.1	51575001	51595001
NC_056062.1	61955001	61975001	2.80445	0.291604	BD	TRPS1	NC_056057.1	51580001	51600001
NC_056072.1	56565001	56585001	2.27133	0.31452	BD	TSEN2	NC_056057.1	73970001	73990001
NC_056058.1	35840001	35860001	2.17583	0.313663	BD	TSPAN17	NC_056057.1	73975001	73995001
NC_056058.1	35845001	35865001	3.40059	0.303374	BD	TSPAN17	NC_056057.1	73980001	74000001
NC_056059.1	26655001	26675001	3.21647	0.464145	BD	TSPAN5	NC_056057.1	73985001	74005001
NC_056059.1	26660001	26680001	2.74453	0.440274	BD	TSPAN5	NC_056057.1	73990001	74010001
NC_056059.1	26665001	26685001	2.46496	0.426427	BD	TSPAN5	NC_056057.1	73995001	74015001
NC_056059.1	26650001	26670001	2.22874	0.405423	BD	TSPAN5	NC_056057.1	74000001	74020001
NC_056080.1	38175001	38195001	4.15244	0.511617	BD	TSPAN7	NC_056057.1	73550001	73570001
NC_056080.1	38160001	38180001	8.06351	0.471467	BD	TSPAN7	NC_056057.1	73555001	73575001
NC_056080.1	38095001	38115001	4.06354	0.456558	BD	TSPAN7	NC_056057.1	73580001	73600001
NC_056080.1	38155001	38175001	6.00553	0.438962	BD	TSPAN7	NC_056057.1	73600001	73620001
NC_056080.1	38130001	38150001	4.03402	0.428982	BD	TSPAN7	NC_056057.1	73605001	73625001
NC_056080.1	38150001	38170001	2.44625	0.353339	BD	TSPAN7	NC_056057.1	73610001	73630001
NC_056080.1	38140001	38160001	2.43086	0.327862	BD	TSPAN7	NC_056079.1	13635001	13655001
NC_056080.1	38145001	38165001	2.21869	0.309126	BD	TSPAN7	NC_056079.1	13645001	13665001
NC_056058.1	92425001	92445001	3.17308	0.323262	BD	TTC37	NC_056079.1	13770001	13790001
NC_056056.1	77300001	77320001	4.36181	0.7988	BD	TTC7A	NC_056079.1	13775001	13795001
NC_056056.1	2.15E+08	215235001	10.5471	0.296903	BD	TUBA8	NC_056079.1	13780001	13800001
NC_056056.1	2.15E+08	215230001	9.1495	0.291598	BD	TUBA8	NC_056059.1	26955001	26975001
NC_056056.1	3435001	3455001	5.46454	0.482914	BD	UBAC1	NC_056059.1	26960001	26980001
NC_056079.1	41420001	41440001	2.23797	0.309134	BD	UBE2E1	NC_056059.1	26965001	26985001
NC_056055.1	1.29E+08	128940001	6.25748	0.51316	BD	UBE2E3	NC_056059.1	26970001	26990001
NC_056055.1	1.29E+08	128935001	8.61362	0.487604	BD	UBE2E3	NC_056059.1	26975001	26995001
NC_056055.1	1.29E+08	128930001	5.8184	0.408469	BD	UBE2E3	NC_056059.1	26980001	27000001
NC_056055.1	1.29E+08	128925001	4.04772	0.318172	BD	UBE2E3	NC_056059.1	26985001	27005001
NC_056062.1	50135001	50155001	4.13437	0.349533	BD	UBE2W	NC_056059.1	26990001	27010001
NC_056065.1	42645001	42665001	2.35518	0.310958	BD	UBE4B	NC_056059.1	26995001	27015001
NC_056065.1	41620001	41640001	3.08075	0.314569	BD	UBIAD1	NC_056059.1	27000001	27020001
NC_056065.1	41615001	41635001	2.86387	0.297659	BD	UBIAD1	NC_056059.1	27005001	27025001
NC_056073.1	16275001	16295001	3.32387	0.293851	BD	UBR2	NC_056059.1	27030001	27050001
NC_056059.1	29665001	29685001	2.97388	0.42903	BD	UNC5C	NC_056059.1	27035001	27055001
NC_056059.1	29660001	29680001	2.69544	0.380118	BD	UNC5C	NC_056057.1	82515001	82535001
NC_056059.1	29655001	29675001	2.24675	0.365505	BD	UNC5C	NC_056057.1	82545001	82565001
NC_056058.1	4185001	4205001	2.13997	0.343339	BD	UPF1	NC_056057.1	82550001	82570001
NC_056058.1	4170001	4190001	2.24507	0.336371	BD	UPF1	NC_056056.1	181975001	181995001
NC_056072.1	60375001	60395001	2.37123	0.360579	BD	UROC1;ZXDC	NC_056056.1	181980001	18200001
NC_056067.1	10410001	10430001	6.10736	0.319652	BD	USP10	NC_056056.1	181985001	182005001
NC_056070.1	64160001	64180001	8.48149	0.429952	BD	USP30	NC_056056.1	182005001	182025001
NC_056072.1	50830001	50850001	4.60667	0.337436	BD	USP4	NC_056056.1	182010001	182030001
NC_056072.1	50825001	50845001	4.41667	0.33656	BD	USP4	NC_056056.1	182015001	182035001
NC_056072.1	50815001	50835001	3.66831	0.318634	BD	USP4	NC_056056.1	182020001	182040001
NC_056072.1	50820001	50840001	3.20196	0.301816	BD	USP4	NC_056080.1	37525001	37545001
NC_056065.1	70075001	70095001	2.2275	0.307615	BD	VASH2	NC_056061.1	73695001	73715001
NC_056060.1	41265001	41285001	3.94026	0.293877	BD	VCPKMT	NC_056061.1	73700001	73720001
NC_056074.1	26765001	26785001	2.5211	0.365123	BD	VSIG10L2	NC_056061.1	73705001	73725001
NC_056060.1	65515001	65535001	2.1414	0.357368	BD	WDHD1	NC_056061.1	73710001	73730001
NC_056060.1	65510001	65530001	2.15283	0.350526	BD	WDHD1	NC_056059.1	57970001	57990001
NC_056075.1	40410001	40430001	9.86254	0.449245	BD	WDR11	NC_056059.1	57975001	57995001
NC_056075.1	40400001	40420001	10.2316	0.440641	BD	WDR11	NC_056059.1	57980001	58000001
NC_056075.1	40415001	40435001	7.35649	0.440155	BD	WDR11	NC_056056.1	222975001	222995001
NC_056075.1	40405001	40425001	15.1708	0.439975	BD	WDR11	NC_056056.1	222980001	223000001
NC_056075.1	40395001	40415001	8.3696	0.434965	BD	WDR11	NC_056056.1	222985001	223005001
NC_056075.1	40420001	40440001	3.02841	0.365947	BD	WDR11	NC_056056.1	223075001	223095001
NC_056075.1	40390001	40410001	4.55087	0.361032	BD	WDR11	NC_056056.1	223080001	223100001
NC_056075.1	40355001	40375001	2.10182	0.304607	BD	WDR11	NC_056061.1	17110001	17130001
NC_056075.1	40360001	40380001	2.1	0.296612	BD	WDR11	NC_056061.1	17115001	17135001
NC_056071.1	64655001	64675001	5.0801	0.38575	BD	WDR20	NC_056054.1	275150001	275170001
NC_056071.1	64660001	64680001	3.21542	0.306292	BD	WDR20	NC_056054.1	275155001	275175001
NC_056056.1	2.14E+08	213920001	12.0206	0.291937	BD	WNT5B	NC_056060.1	51350001	51370001

NC_056056.1	2.22E+08	222155001	2.2072	0.374826	BD	WNT7B	NC_056060.1	51355001	51375001
NC_056070.1	64865001	64885001	2.27947	0.303826	BD	WSCD2	NC_056060.1	51360001	51380001
NC_056080.1	7990001	8010001	2.35065	0.322549	BD	WWC3	NC_056060.1	51465001	51485001
NC_056062.1	35785001	35805001	2.14428	0.292433	BD	XKR4	NC_056060.1	51510001	51530001
NC_056079.1	5985001	6005001	14.879	0.365171	BD	XKR5	NC_056060.1	51515001	51535001
NC_056079.1	5990001	6010001	6.20053	0.318861	BD	XKR5	NC_056060.1	51520001	51540001
NC_056079.1	6015001	6035001	4.73991	0.30564	BD	XKR5;ZNF596	NC_056067.1	14230001	14250001
NC_056054.1	2.47E+08	247275001	2.23763	0.50288	BD	XRN1	NC_056056.1	57025001	57045001
NC_056054.1	2.47E+08	247280001	2.19728	0.453247	BD	XRN1	NC_056056.1	57030001	57050001
NC_056054.1	2.47E+08	247285001	2.43697	0.446893	BD	XRN1	NC_056056.1	57035001	57055001
NC_056066.1	40160001	40180001	4.06658	0.500656	BD	XRN2	NC_056056.1	28915001	28935001
NC_056066.1	40170001	40190001	3.17475	0.436806	BD	XRN2	NC_056055.1	50250001	50270001
NC_056066.1	40165001	40185001	3.36557	0.435079	BD	XRN2	NC_056080.1	108990001	109010001
NC_056066.1	40185001	40205001	2.45714	0.306817	BD	XRN2	NC_056080.1	108995001	109015001
NC_056066.1	40175001	40195001	2.26717	0.300306	BD	XRN2	NC_056080.1	109000001	109020001
NC_056068.1	6335001	6355001	3.61606	0.298639	BD	YAP1	NC_056080.1	109005001	109025001
NC_056068.1	24425001	24445001	2.46522	0.335815	BD	ZBTB16	NC_056080.1	109010001	109030001
NC_056068.1	24430001	24450001	3.18068	0.326166	BD	ZBTB16	NC_056080.1	109025001	109045001
NC_056068.1	24415001	24435001	2.11823	0.31542	BD	ZBTB16	NC_056080.1	109030001	109050001
NC_056068.1	24435001	24455001	2.67621	0.311389	BD	ZBTB16	NC_056080.1	109035001	109055001
NC_056068.1	24440001	24460001	3.08623	0.306609	BD	ZBTB16	NC_056070.1	58030001	58050001
NC_056068.1	24445001	24465001	2.68281	0.306296	BD	ZBTB16	NC_056078.1	24185001	24205001
NC_056068.1	24410001	24430001	2.11083	0.295338	BD	ZBTB16	NC_056078.1	24200001	24220001
NC_056068.1	24460001	24480001	2.59084	0.293973	BD	ZBTB16	NC_056078.1	24205001	24225001
NC_056054.1	1.8E+08	180170001	2.11704	0.344414	BD	ZBTB20	NC_056078.1	24210001	24230001
NC_056068.1	19905001	19925001	5.13556	0.353216	BD	ZC3H12C	NC_056078.1	24215001	24235001
NC_056068.1	19900001	19920001	4.76103	0.331486	BD	ZC3H12C	NC_056078.1	24230001	24250001
NC_056072.1	2925001	2945001	2.21559	0.331246	BD	ZCWPW2	NC_056078.1	24235001	24255001
NC_056056.1	1.13E+08	112750001	2.63717	0.505087	BD	ZDHHC17	NC_056078.1	24240001	24260001
NC_056056.1	1.13E+08	112745001	2.81712	0.429881	BD	ZDHHC17	NC_056078.1	24245001	24265001
NC_056056.1	1.13E+08	112740001	3.13748	0.421282	BD	ZDHHC17	NC_056078.1	24250001	24270001
NC_056056.1	1.13E+08	112735001	3.21793	0.376004	BD	ZDHHC17	NC_056080.1	63550001	63570001
NC_056056.1	1.13E+08	112670001	2.15571	0.373922	BD	ZDHHC17	NC_056080.1	63555001	63575001
NC_056056.1	1.13E+08	112665001	2.46728	0.361749	BD	ZDHHC17	NC_056080.1	63560001	63580001
NC_056056.1	1.13E+08	112760001	2.13332	0.331162	BD	ZDHHC17	NC_056071.1	67425001	67445001
NC_056056.1	1.13E+08	112710001	2.33865	0.317432	BD	ZDHHC17	NC_056057.1	53960001	53980001
NC_056056.1	1.13E+08	112730001	2.78285	0.314306	BD	ZDHHC17	NC_056057.1	53965001	53985001
NC_056066.1	33290001	33310001	24.3041	0.380784	BD	ZEB1	NC_056057.1	53970001	53990001
NC_056066.1	33295001	33315001	23.8755	0.375793	BD	ZEB1	NC_056057.1	54000001	54020001
NC_056066.1	33300001	33320001	18.9446	0.372629	BD	ZEB1	NC_056062.1	21300001	21320001
NC_056066.1	33285001	33305001	21.725	0.351645	BD	ZEB1	NC_056056.1	80640001	80660001
NC_056066.1	33305001	33325001	8.10714	0.323319	BD	ZEB1	NC_056056.1	80690001	80710001
NC_056066.1	33280001	33300001	18.1829	0.308776	BD	ZEB1	NC_056060.1	18465001	18485001
NC_056066.1	33350001	33370001	2.51327	0.292394	BD	ZEB1	NC_056060.1	18470001	18490001
NC_056067.1	65255001	65275001	2.62405	0.409739	BD	ZNF304	NC_056060.1	18475001	18495001
NC_056067.1	65260001	65280001	2.91028	0.384674	BD	ZNF304	NC_056060.1	18480001	18500001
NC_056055.1	1.03E+08	102850001	2.18587	0.330193	BD	ZNF395	NC_056054.1	124815001	124835001
NC_056067.1	17505001	17525001	3.5191	0.322741	BD	ZNF423	NC_056054.1	124820001	124840001
NC_056067.1	17500001	17520001	3.2852	0.309979	BD	ZNF423	NC_056054.1	124825001	124845001
NC_056067.1	46615001	46635001	3.35231	0.390335	BD	ZNF585B	NC_056054.1	125025001	125045001
NC_056079.1	6025001	6045001	6.23517	0.330436	BD	ZNF596	NC_056064.1	46660001	46680001
NC_056079.1	6020001	6040001	5.67594	0.328751	BD	ZNF596	NC_056064.1	46665001	46685001
NC_056079.1	6030001	6050001	4.96314	0.317092	BD	ZNF596	NC_056055.1	22590001	22610001
NC_056060.1	43715001	43735001	5.58651	0.435598	BD	ZNF609	NC_056055.1	22595001	22615001
NC_056060.1	43710001	43730001	5.67051	0.430195	BD	ZNF609	NC_056055.1	22600001	22620001
NC_056060.1	43705001	43725001	3.68633	0.416059	BD	ZNF609	NC_056056.1	142800001	142820001
NC_056060.1	43700001	43720001	2.11795	0.333497	BD	ZNF609	NC_056056.1	142805001	142825001
NC_056060.1	43720001	43740001	2.70652	0.304342	BD	ZNF609	NC_056056.1	142810001	142830001
NC_056067.1	46555001	46575001	2.14809	0.311543	BD	ZNF793	NC_056056.1	142815001	142835001
NC_056055.1	1.25E+08	124965001	2.11884	0.330371	BD	ZNF804A	NC_056056.1	142820001	142840001
NC_056070.1	12530001	12550001	2.35856	0.310891	BD	ZNF827	NC_056056.1	142825001	142845001
NC_056072.1	60380001	60400001	2.46965	0.34953	BD	ZXDC	NC_056056.1	84470001	84490001
NC_056064.1	24480001	24500001	4.67335	0.443221	BD	ZZEF1	NC_056056.1	84485001	84505001
NC_056054.1	54110001	54130001	2.4226	0.336853	BD	ZZZ3	NC_056056.1	84490001	84510001
							NC_056056.1	98990001	99010001
							NC_056056.1	99010001	99030001
							NC_056056.1	99015001	99035001
							NC_056056.1	99020001	99040001
							NC_056077.1	28770001	28790001
							NC_056077.1	28775001	28795001
							NC_056071.1	55620001	55640001
							NC_056062.1	21660001	21680001
							NC_056055.1	50080001	50100001
							NC_056068.1	28315001	28335001

NC_056068.1	28320001	28340001
NC_056068.1	28325001	28345001
NC_056068.1	28330001	28350001
NC_056068.1	28335001	28355001
NC_056068.1	28340001	28360001
NC_056056.1	119035001	119055001
NC_056056.1	119040001	119060001
NC_056056.1	119045001	119065001
NC_056055.1	8670001	8690001
NC_056065.1	40070001	40090001
NC_056055.1	8875001	8895001
NC_056055.1	8880001	8900001
NC_056069.1	8915001	8935001
NC_056069.1	8920001	8940001
NC_056065.1	66845001	66865001
NC_056062.1	16430001	16450001
NC_056062.1	16435001	16455001
NC_056056.1	108400001	108420001
NC_056056.1	108540001	108560001
NC_056056.1	108545001	108565001
NC_056056.1	108550001	108570001
NC_056056.1	108555001	108575001
NC_056080.1	44320001	44340001
NC_056080.1	44325001	44345001
NC_056080.1	44330001	44350001
NC_056080.1	44335001	44355001
NC_056062.1	61775001	61795001
NC_056080.1	127505001	127525001
NC_056080.1	127510001	127530001
NC_056080.1	127515001	127535001
NC_056056.1	102175001	102195001
NC_056056.1	102180001	102200001
NC_056056.1	102185001	102205001
NC_056056.1	102195001	102215001
NC_056056.1	102200001	102220001
NC_056056.1	102235001	102255001
NC_056056.1	102240001	102260001
NC_056056.1	102245001	102265001
NC_056056.1	102250001	102270001
NC_056056.1	102255001	102275001
NC_056056.1	102260001	102280001
NC_056056.1	102265001	102285001
NC_056056.1	102270001	102290001
NC_056059.1	26650001	26670001
NC_056059.1	26655001	26675001
NC_056059.1	26660001	26680001
NC_056059.1	26665001	26685001
NC_056080.1	38090001	38110001
NC_056080.1	38095001	38115001
NC_056080.1	38130001	38150001
NC_056080.1	38160001	38180001
NC_056080.1	38175001	38195001
NC_056074.1	37590001	37610001
NC_056060.1	85110001	85130001
NC_056060.1	85390001	85410001
NC_056056.1	225320001	225340001
NC_056055.1	33510001	33530001
NC_056055.1	33515001	33535001
NC_056055.1	13005001	13025001
NC_056055.1	13010001	13030001
NC_056055.1	13015001	13035001
NC_056055.1	13030001	13050001
NC_056055.1	13035001	13055001
NC_056055.1	81175001	81195001
NC_056062.1	50065001	50085001
NC_056062.1	50070001	50090001
NC_056062.1	50075001	50095001
NC_056062.1	50080001	50100001
NC_056062.1	50085001	50105001
NC_056062.1	50090001	50110001
NC_056062.1	50095001	50115001
NC_056062.1	50100001	50120001
NC_056065.1	42630001	42650001
NC_056065.1	42660001	42680001



NC_056065.1	41615001	41635001
NC_056065.1	41620001	41640001
NC_056065.1	11420001	11440001
NC_056065.1	11425001	11445001
NC_056065.1	11430001	11450001
NC_056055.1	53215001	53235001
NC_056071.1	55975001	55995001
NC_056065.1	18845001	18865001
NC_056065.1	18850001	18870001
NC_056054.1	29585001	29605001
NC_056080.1	40470001	40490001
NC_056061.1	73340001	73360001
NC_056061.1	68935001	68955001
NC_056061.1	68940001	68960001
NC_056061.1	68945001	68965001
NC_056064.1	41345001	41365001
NC_056080.1	82150001	82170001
NC_056072.1	55565001	55585001
NC_056072.1	55570001	55590001
NC_056057.1	83805001	83825001
NC_056057.1	83810001	83830001
NC_056057.1	83815001	83835001
NC_056080.1	116435001	116455001
NC_056080.1	116440001	116460001
NC_056080.1	116450001	116470001
NC_056080.1	116455001	116475001
NC_056080.1	116460001	116480001
NC_056075.1	21100001	21120001
NC_056056.1	92300001	92320001
NC_056056.1	92305001	92325001
NC_056062.1	35735001	35755001
NC_056062.1	35740001	35760001
NC_056055.1	49895001	49915001
NC_056054.1	247190001	247210001
NC_056054.1	247195001	247215001
NC_056054.1	247200001	247220001
NC_056054.1	247220001	247240001
NC_056054.1	247225001	247245001
NC_056054.1	247230001	247250001
NC_056054.1	247235001	247255001
NC_056054.1	247240001	247260001
NC_056054.1	247245001	247265001
NC_056054.1	247250001	247270001
NC_056054.1	247255001	247275001
NC_056054.1	247260001	247280001
NC_056054.1	247265001	247285001
NC_056076.1	36085001	36105001
NC_056060.1	8265001	8285001
NC_056060.1	8270001	8290001
NC_056060.1	8275001	8295001
NC_056068.1	24330001	24350001
NC_056068.1	24335001	24355001
NC_056068.1	24415001	24435001
NC_056068.1	24420001	24440001
NC_056068.1	24425001	24445001
NC_056068.1	24430001	24450001
NC_056068.1	24435001	24455001
NC_056068.1	24440001	24460001
NC_056068.1	24445001	24465001
NC_056068.1	24500001	24520001
NC_056068.1	24505001	24525001
NC_056074.1	33765001	33785001
NC_056074.1	33770001	33790001
NC_056074.1	33775001	33795001
NC_056074.1	33780001	33800001
NC_056074.1	33785001	33805001
NC_056074.1	33790001	33810001
NC_056074.1	33795001	33815001
NC_056068.1	19900001	19920001
NC_056068.1	19905001	19925001
NC_056072.1	2925001	2945001
NC_056056.1	112650001	112670001
NC_056056.1	112715001	112735001
NC_056056.1	112720001	112740001

NC_056056.1	112725001	112745001
NC_056056.1	112730001	112750001
NC_056060.1	86495001	86515001
NC_056062.1	71755001	71775001
NC_056062.1	71760001	71780001
NC_056074.1	38565001	38585001
NC_056074.1	38570001	38590001
NC_056080.1	57440001	57460001
NC_056067.1	39120001	39140001
NC_056067.1	65255001	65275001
NC_056067.1	65260001	65280001
NC_056055.1	130215001	130235001
NC_056055.1	130220001	130240001
NC_056080.1	57425001	57445001
NC_056067.1	17485001	17505001
NC_056066.1	33735001	33755001
NC_056066.1	33740001	33760001
NC_056066.1	33745001	33765001
NC_056066.1	33750001	33770001
NC_056066.1	33755001	33775001
NC_056077.1	37290001	37310001
NC_056062.1	57125001	57145001
NC_056067.1	1850001	1870001
NC_056067.1	1855001	1875001
NC_056067.1	1860001	1880001
NC_056067.1	1865001	1885001
NC_056060.1	13335001	13355001



## HZ vs SG2

Pi	Fst	Region	Gene	CHROM	Start	end	Pi	Fst	Region	Gene
2.78758	0.227128	GY	ABCB5	NC_056055.1	217165001	217185001	2.5442	0.20615	HZ	ABCA12
3.48179	0.267094	GY	ABCB5	NC_056055.1	217170001	217190001	2.54794	0.217452	HZ	ABCA12
3.5414	0.209753	GY	ABCB5	NC_056057.1	30380001	30400001	2.53487	0.342098	HZ	ABCB5
2.75926	0.241556	GY	ABCB7	NC_056057.1	30385001	30405001	2.77989	0.414043	HZ	ABCB5
2.52598	0.249573	GY	ABCB7	NC_056057.1	30390001	30410001	2.83864	0.363961	HZ	ABCB5
3.04676	0.244416	GY	ABCB7	NC_056077.1	14850001	14870001	2.45011	0.214202	HZ	ABCC1
2.84172	0.221245	GY	ABCB7	NC_056067.1	16070001	16090001	3.11406	0.238945	HZ	ABCC12
2.71495	0.193572	GY	ABCF3;AP2M1	NC_056067.1	16075001	16095001	2.99737	0.216361	HZ	ABCC12
3.29385	0.201436	GY	ABHD16A;LOC101111	NC_056073.1	26700001	26720001	2.87951	0.245532	HZ	ABHD16A;CSNK2B;
4.33636	0.223962	GY	ABHD16A;LOC101111	NC_056073.1	26695001	26715001	3.44827	0.22439	HZ	ABHD16A;CSNK2B;
5.22158	0.217241	GY	ABHD16A;LOC101111	NC_056073.1	26670001	26690001	4.79387	0.244081	HZ	ABHD16A;LOC101111
4.78431	0.220321	GY	ABHD16A;LY6G5I	NC_056073.1	26675001	26695001	5.72272	0.270309	HZ	ABHD16A;LOC101111
6.21568	0.238707	GY	ABHD16A;LY6G6I	NC_056073.1	26680001	26700001	6.61363	0.261171	HZ	ABHD16A;LOC101111
2.90955	0.193025	GY	ABL1;EXOSC2	NC_056073.1	26690001	26710001	4.5098	0.277472	HZ	ABHD16A;LY6G5B;I
3.88123	0.257036	GY	ACAD8	NC_056073.1	26685001	26705001	6.32028	0.309894	HZ	ABHD16A;LY6G6F
3.02581	0.232428	GY	ACAD8	NC_056056.1	5920001	5940001	2.53784	0.258198	HZ	ABL1;EXOSC2
3.30859	0.227082	GY	ACAD8	NC_056068.1	82095001	82115001	3.76245	0.255501	HZ	ACAD8
2.99501	0.237583	GY	ACAD8;THYN1	NC_056068.1	82100001	82120001	3.23548	0.241829	HZ	ACAD8
3.51391	0.259504	GY	ACSS3	NC_056068.1	82105001	82125001	3.86328	0.265457	HZ	ACAD8
6.16292	0.295992	GY	ACSS3	NC_056068.1	82090001	82110001	2.9227	0.253892	HZ	ACAD8;THYN1
4.34719	0.253634	GY	ACSS3	NC_056068.1	82075001	82095001	6.75481	0.416145	HZ	ACAD8;THYN1;VPS
4.15071	0.245913	GY	ACSS3	NC_056068.1	82080001	82100001	5.59744	0.37441	HZ	ACAD8;THYN1;VPS
3.36454	0.230466	GY	ACSS3	NC_056068.1	82085001	82105001	3.93548	0.323885	HZ	ACAD8;THYN1;VPS
3.26432	0.340507	GY	ACSS3	NC_056054.1	110155001	110175001	7.04573	0.238578	HZ	ACKR1
4.38131	0.395442	GY	ACSS3	NC_056054.1	110135001	110155001	4.14984	0.229507	HZ	ACKR1;CADM3
3.6954	0.371403	GY	ACSS3	NC_056054.1	110140001	110160001	4.16308	0.232206	HZ	ACKR1;CADM3
3.1381	0.238056	GY	ACSS3	NC_056054.1	110145001	110165001	5.04202	0.220242	HZ	ACKR1;CADM3
3.09894	0.217557	GY	ACTL7A;ACTL7B;	NC_056056.1	117215001	117235001	4.06705	0.219015	HZ	ACSS3
2.95551	0.216427	GY	ADAM19	NC_056057.1	73835001	73855001	3.2013	0.256191	HZ	ADAM22
4.03488	0.233633	GY	ADAM22	NC_056057.1	73840001	73860001	4.64286	0.245025	HZ	ADAM22
23.3879	0.334982	GY	ADAM22	NC_056057.1	73845001	73865001	6.34312	0.260391	HZ	ADAM22
3.37879	0.204354	GY	ADAM22	NC_056057.1	73850001	73870001	4.39841	0.213122	HZ	ADAM22
6.30881	0.195722	GY	ADAM22	NC_056057.1	73855001	73875001	3.48386	0.226116	HZ	ADAM22
3.26165	0.217008	GY	ADAM22	NC_056055.1	86510001	86530001	3.22918	0.32665	HZ	ADAMTSL1
3.8893	0.224246	GY	ADAMTSL17	NC_056055.1	86515001	86535001	3.51755	0.353616	HZ	ADAMTSL1
3.69388	0.250693	GY	ADAMTSL17	NC_056055.1	86610001	86630001	3.75749	0.250234	HZ	ADAMTSL1
4.01259	0.261317	GY	ADAMTSL17	NC_056066.1	45785001	45805001	3.05819	0.21431	HZ	ADARB2
4.54864	0.251145	GY	ADAMTSL17	NC_056066.1	45790001	45810001	4.91732	0.256804	HZ	ADARB2
3.14792	0.258932	GY	ADAMTSL1	NC_056066.1	45795001	45815001	6.40217	0.23259	HZ	ADARB2
3.48601	0.306255	GY	ADAMTSL1	NC_056066.1	45800001	45820001	7.77866	0.237838	HZ	ADARB2
2.90703	0.20349	GY	ADGRD1	NC_056066.1	45835001	45855001	2.62371	0.270706	HZ	ADARB2
2.42609	0.198404	GY	ADGRG2	NC_056066.1	45840001	45860001	3.64657	0.322791	HZ	ADARB2
8.80819	0.237516	GY	ADRB3	NC_056066.1	45845001	45865001	4.36287	0.36122	HZ	ADARB2
2.54167	0.20749	GY	AFF1	NC_056066.1	45850001	45870001	3.21221	0.314138	HZ	ADARB2
4.87166	0.234239	GY	AFF1	NC_056076.1	36175001	36195001	6.74397	0.258654	HZ	ADCYAP1
4.39829	0.218858	GY	AFF1	NC_056076.1	36180001	36200001	5.46599	0.22056	HZ	ADCYAP1
4.06402	0.265547	GY	AFF1	NC_056062.1	5290001	5310001	2.39788	0.465754	HZ	ADGRB3
3.7353	0.276052	GY	AFF1	NC_056059.1	25595001	25615001	2.7881	0.307761	HZ	ADH1C
3.15915	0.25808	GY	AFF1	NC_056059.1	25600001	25620001	4.20186	0.363719	HZ	ADH1C
3.57187	0.332584	GY	AFF1	NC_056059.1	25510001	25530001	3.23616	0.368545	HZ	ADH7;C6H4orf17
2.49015	0.242002	GY	AFF1	NC_056059.1	25515001	25535001	2.39858	0.284211	HZ	ADH7;C6H4orf17
4.60316	0.256001	GY	AFF2	NC_056059.1	25505001	25525001	2.45864	0.320307	HZ	ADH7;C6H4orf17;LO
5.29652	0.302087	GY	AFF2	NC_056080.1	87110001	87130001	2.50844	0.235224	HZ	AFF2
2.46265	0.231336	GY	AFF2	NC_056080.1	87115001	87135001	2.5534	0.26557	HZ	AFF2
2.86084	0.221304	GY	AFF2	NC_056080.1	87120001	87140001	2.91573	0.303459	HZ	AFF2
3.20786	0.192614	GY	AFF2	NC_056080.1	87130001	87150001	3.71094	0.222449	HZ	AFF2
2.49895	0.242444	GY	AFF3	NC_056071.1	16960001	16980001	3.58168	0.209031	HZ	AGBL1
3	0.19848	GY	AGO3;LOC101111	NC_056055.1	132635001	132655001	3.03839	0.225999	HZ	AGPS
4.7249	0.209055	GY	AGPAT3	NC_056061.1	49600001	49620001	6.71895	0.299888	HZ	AKIRIN2
3.1754	0.193563	GY	AKAP7	NC_056061.1	49605001	49625001	6.10651	0.246982	HZ	AKIRIN2
2.63265	0.193226	GY	ALAS1;TLR9	NC_056061.1	49610001	49630001	5.63353	0.226823	HZ	AKIRIN2
2.62462	0.192792	GY	ALAS1;TLR9;TWF	NC_056054.1	171135001	171155001	5.03481	0.206212	HZ	ALCAM
3.61206	0.194315	GY	ALDH4A1	NC_056054.1	171140001	171160001	5.61884	0.247963	HZ	ALCAM
5.0871	0.482733	GY	ALS2CL	NC_056054.1	171145001	171165001	6.21484	0.215343	HZ	ALCAM
2.62539	0.192754	GY	ALS2CL;PRSS50;T	NC_056056.1	36560001	36580001	4.26495	0.237982	HZ	ALK
5.38709	0.297062	GY	ALS2CL;TMIE	NC_056059.1	13565001	13585001	2.75682	0.351925	HZ	ALPK1
2.75806	0.513592	GY	AMMECR1	NC_056059.1	13570001	13590001	2.90047	0.29874	HZ	ALPK1
3.08805	0.507783	GY	AMMECR1	NC_056059.1	13575001	13595001	3.39894	0.256506	HZ	ALPK1
3.18301	0.416587	GY	AMMECR1	NC_056059.1	13580001	13600001	2.68346	0.218981	HZ	ALPK1

2.56303	0.284035	GY	AMOT	NC_056080.1	121900001	121920001	2.60745	0.224617	HZ	AMOT
2.42285	0.193872	GY	AMOTL1	NC_056063.1	84675001	84695001	7.42639	0.243432	HZ	ANKRD10;LOC1218:
2.4	0.203018	GY	ANGEL1	NC_056063.1	84680001	84700001	13.9212	0.230029	HZ	ANKRD10;LOC1218:
2.47779	0.232773	GY	ANKDD1A	NC_056063.1	84685001	84705001	16.3942	0.219131	HZ	ANKRD10;LOC1218:
3.20044	0.194903	GY	ANKDD1A	NC_056076.1	33350001	33370001	2.40701	0.217055	HZ	ANKRD29
3.85184	0.226707	GY	ANKDD1A	NC_056060.1	6110001	6630001	4.04226	0.215406	HZ	ANKRD31
2.99583	0.281761	GY	ANKK1	NC_056069.1	62765001	62785001	2.46201	0.356757	HZ	ANKRD33B
5.55218	0.330485	GY	ANKK1	NC_056069.1	62770001	62790001	2.80664	0.373698	HZ	ANKRD33B
10.3586	0.338092	GY	ANKK1	NC_056069.1	62775001	62795001	3.75214	0.394062	HZ	ANKRD33B
16.8117	0.318109	GY	ANKK1	NC_056069.1	62780001	62800001	3.4881	0.432102	HZ	ANKRD33B
11.3272	0.294015	GY	ANKK1	NC_056069.1	62785001	62805001	3.48473	0.449237	HZ	ANKRD33B
7.40971	0.272675	GY	ANKK1;DRD2	NC_056069.1	62790001	62810001	2.63928	0.437372	HZ	ANKRD33B
12.7212	0.260823	GY	ANKRD10	NC_056055.1	199425001	199445001	2.62488	0.473464	HZ	ANKRD44
7.37562	0.281677	GY	ANKRD10;LOC121	NC_056055.1	199430001	199450001	2.43395	0.440748	HZ	ANKRD44
13.3779	0.306976	GY	ANKRD10;LOC121	NC_056056.1	210320001	210340001	2.44775	0.211934	HZ	ANO2
15.5289	0.297127	GY	ANKRD10;LOC121	NC_056056.1	141285001	141305001	3.37983	0.21535	HZ	ANO6
4.07802	0.214081	GY	ANKRD31	NC_056056.1	141290001	141310001	3.06611	0.213213	HZ	ANO6
6.5646	0.240608	GY	ANKRD31	NC_056067.1	38775001	38795001	3.36046	0.249449	HZ	APIG1
3.86651	0.218416	GY	ANKRD31	NC_056074.1	15960001	15980001	3.09602	0.277585	HZ	AQP11
2.44958	0.227469	GY	ANKRD33B	NC_056074.1	15965001	15985001	2.62529	0.227831	HZ	AQP11
3.08038	0.195529	GY	ANKRD33B	NC_056074.1	15950001	15970001	3.125	0.266501	HZ	AQP11;CLNS1A
2.83961	0.227581	GY	ANKRD33B	NC_056074.1	15955001	15975001	3.08044	0.280876	HZ	AQP11;CLNS1A
2.79574	0.226143	GY	ANKRD33B	NC_056055.1	37705001	37725001	4.64467	0.256297	HZ	AQP3;NOL6
16.5763	0.260085	GY	ANKRD37;C26H4c	NC_056062.1	44360001	44380001	2.88586	0.208991	HZ	ARFGEF1
26.4881	0.265392	GY	ANKRD37;UFSP2	NC_056062.1	44370001	44390001	2.51915	0.219177	HZ	ARFGEF1
22.958	0.274701	GY	ANKRD37;UFSP2	NC_056070.1	5025001	5045001	4.97826	0.252343	HZ	ARFIP1
3.66296	0.260753	GY	ANKRD44	NC_056070.1	5030001	5050001	3	0.243699	HZ	ARFIP1
3.04115	0.241553	GY	ANKRD44	NC_056070.1	5035001	5055001	2.77035	0.247407	HZ	ARFIP1
2.83449	0.222881	GY	ANKRD44	NC_056070.1	5040001	5060001	2.45842	0.256122	HZ	ARFIP1
2.77224	0.198	GY	ANO4	NC_056068.1	20425001	20445001	5.53278	0.231891	HZ	ARHGAP20
3.36285	0.211358	GY	ANO4	NC_056064.1	31035001	31055001	3.46421	0.226293	HZ	ARHGAP44
2.7621	0.226452	GY	ANO4	NC_056064.1	31040001	31060001	3.99123	0.223037	HZ	ARHGAP44
2.4588	0.226009	GY	ANO4	NC_056064.1	31045001	31065001	4.42796	0.205417	HZ	ARHGAP44
14.2671	0.19405	GY	ANO4	NC_056080.1	9680001	9700001	8.21127	0.217348	HZ	ARHGAP6
5.054	0.257348	GY	ANO4	NC_056056.1	200585001	200605001	2.59822	0.205535	HZ	ARHGAP6;ERP27
4.31523	0.267653	GY	ANO4	NC_056057.1	108790001	108810001	2.6875	0.23359	HZ	ARHGAP6
3.17697	0.290438	GY	ANO4	NC_056056.1	140585001	140605001	6.43369	0.211531	HZ	ARHGEB5
2.53558	0.27568	GY	ANO4	NC_056056.1	140655001	140675001	2.72579	0.224145	HZ	ARID2
2.42686	0.247465	GY	ANO4	NC_056056.1	140660001	140680001	2.37428	0.241275	HZ	ARID2
3.51933	0.20394	GY	ANO6	NC_056056.1	140570001	140590001	4.27718	0.248344	HZ	ARID2;SCAF11
3.1471	0.204426	GY	ANO6	NC_056056.1	140575001	140595001	6.8631	0.232448	HZ	ARID2;SCAF11
2.74663	0.274681	GY	APOB	NC_056056.1	140580001	140600001	7.31868	0.211931	HZ	ARID2;SCAF11
4.84263	0.227308	GY	AQP3;NOL6	NC_056060.1	68480001	68500001	2.81712	0.233767	HZ	ARMH4
2.7193	0.198903	GY	ARF6	NC_056060.1	68485001	68505001	2.84486	0.242171	HZ	ARMH4
2.76297	0.198269	GY	ARHGAP6;LOC101	NC_056060.1	68490001	68510001	3.20563	0.264535	HZ	ARMH4
2.47354	0.202652	GY	ARHGAP6	NC_056056.1	188045001	188065001	2.54933	0.247708	HZ	ARNTL2
2.54691	0.255008	GY	ARMC1	NC_056056.1	188050001	188070001	2.92509	0.244576	HZ	ARNTL2
3.17498	0.209233	GY	ARMH4	NC_056056.1	188055001	188075001	4.39671	0.236174	HZ	ARNTL2
2.82279	0.205166	GY	ARNTL2	NC_056056.1	188060001	188080001	6.05627	0.271146	HZ	ARNTL2
3.51757	0.21234	GY	ARNTL2	NC_056056.1	188065001	188085001	2.77025	0.214973	HZ	ARNTL2
2.72153	0.233293	GY	ARPP21	NC_056077.1	37460001	37480001	6.02248	0.220246	HZ	ARPC1A
2.80115	0.197706	GY	ARPP21	NC_056077.1	37465001	37485001	5.09054	0.23282	HZ	ARPC1A
3.41444	0.397186	GY	ASB5	NC_056060.1	55940001	55960001	2.82641	0.266281	HZ	ARPP19;FAM214A
2.6878	0.218115	GY	ASCL2	NC_056060.1	55975001	55995001	2.59679	0.246415	HZ	ARPP19;MYO5A
3.06647	0.214578	GY	ASTN1	NC_056056.1	200685001	200705001	3.69545	0.253847	HZ	ART4
3.50385	0.244361	GY	ASTN1	NC_056056.1	200695001	200715001	2.69908	0.21806	HZ	ART4;C3H12orf60;SN
2.51812	0.254924	GY	ASTN1	NC_056056.1	200690001	200710001	3.75299	0.266955	HZ	ART4;SMCO3
2.50246	0.284628	GY	ATG4A;COL4A6	NC_056079.1	18375001	18395001	2.61773	0.23449	HZ	ASAH1
10.9671	0.28895	GY	ATMIN;CENPN	NC_056079.1	18380001	18400001	2.95376	0.246043	HZ	ASAH1
5.07416	0.254051	GY	ATMIN;CENPN	NC_056079.1	18385001	18405001	3.30784	0.206325	HZ	ASAH1
5.74515	0.279972	GY	ATP10B	NC_056064.1	24075001	24095001	5.30995	0.211091	HZ	ASPA;SPATA22
3.50072	0.267193	GY	ATP10B	NC_056065.1	57650001	57670001	2.37736	0.211878	HZ	ASTN1
2.64791	0.267034	GY	ATP10B	NC_056056.1	135535001	135555001	2.77727	0.273376	HZ	ATF1
2.58983	0.259135	GY	ATP6V0A1	NC_056056.1	135540001	135560001	5.71911	0.242875	HZ	ATF1
2.48829	0.19574	GY	ATP7A	NC_056067.1	7200001	7220001	10.679	0.290754	HZ	ATMIN;CENPN
2.6079	0.222683	GY	ATP7A	NC_056067.1	7205001	7225001	4.87924	0.238664	HZ	ATMIN;CENPN
2.54063	0.212402	GY	ATP7A	NC_056058.1	70075001	70095001	2.60663	0.22332	HZ	ATP10B
2.4428	0.208197	GY	ATP7A	NC_056080.1	95530001	95550001	4.17597	0.23275	HZ	ATP11C
3.56937	0.227646	GY	ATR;XRN1	NC_056062.1	34850001	34870001	2.72806	0.240185	HZ	ATP6V1H
4.28714	0.23479	GY	ATR;XRN1	NC_056080.1	69100001	69120001	2.6923	0.330887	HZ	ATP7A
5.39631	0.232463	GY	AURKA;CSTF1	NC_056080.1	69105001	69125001	3.81706	0.361378	HZ	ATP7A
9.4898	0.278977	GY	AURKA;CSTF1	NC_056055.1	26230001	26250001	6.22312	0.24952	HZ	AUH
11.3632	0.288858	GY	AURKA;CSTF1	NC_056055.1	26235001	26255001	9.72389	0.279922	HZ	AUH
7.81562	0.283103	GY	AURKA;CSTF1;FA	NC_056066.1	59195001	59215001	7.48387	0.28445	HZ	AURKA;CSTF1

3.47797	0.2602	GY	AURKA;FAM210B	NC_056066.1	59200001	59220001	11.6939	0.348618	HZ	AURKA;CSTF1
2.43086	0.211107	GY	B3GALNT2	NC_056066.1	59205001	59225001	11.684	0.380438	HZ	AURKA;CSTF1
3.33839	0.203121	GY	B3GALNT2	NC_056066.1	59210001	59230001	7.61563	0.366115	HZ	AURKA;CSTF1;FAM
2.93404	0.196373	GY	B4GALT6	NC_056066.1	59215001	59235001	3.41525	0.300572	HZ	AURKA;FAM210B
3.15404	0.212157	GY	B4GALT6	NC_056077.1	30870001	30890001	2.73012	0.22324	HZ	AUTS2
3.01624	0.206531	GY	B4GALT6	NC_056074.1	40820001	40840001	5.47502	0.484413	HZ	B4GAT1;BRMS1
4.65835	0.229562	GY	B4GALT6	NC_056074.1	40825001	40845001	4.75721	0.499189	HZ	B4GAT1;BRMS1
3.39729	0.216377	GY	B4GALT6	NC_056074.1	40815001	40835001	2.63987	0.39092	HZ	B4GAT1;BRMS1;RIN
2.50896	0.228546	GY	B4GALT6	NC_056066.1	35405001	35425001	2.77696	0.262023	HZ	BAMBI
5.90626	0.418981	GY	B4GAT1;BRMS1	NC_056059.1	23195001	23215001	3.11612	0.282238	HZ	BANK1
5.08091	0.424373	GY	B4GAT1;BRMS1	NC_056059.1	23200001	23220001	2.98489	0.256421	HZ	BANK1
2.96078	0.244214	GY	B4GAT1;BRMS1;R	NC_056059.1	23205001	23225001	2.91585	0.25337	HZ	BANK1
3.17686	0.326243	GY	B4GAT1;BRMS1;R	NC_056054.1	70865001	70885001	5.40465	0.238976	HZ	BCAR3
3.3619	0.276948	GY	BAG4	NC_056080.1	39475001	39495001	2.96178	0.27442	HZ	BCOR
3.23958	0.209274	GY	BANK1	NC_056080.1	129130001	129150001	2.36202	0.209696	HZ	BEX4
2.56256	0.25783	GY	BANK1	NC_056068.1	6005001	6025001	2.59427	0.248894	HZ	BIRC2
20.5221	0.191956	GY	BBS2	NC_056068.1	6010001	6030001	3.99193	0.267058	HZ	BIRC2
5.70771	0.205839	GY	BBS9	NC_056068.1	6015001	6035001	3.66935	0.276021	HZ	BIRC2
6.78746	0.26822	GY	BCAM;CBLC	NC_056054.1	100000001	100020001	4.58621	0.23704	HZ	BOLA1;SV2A
2.61701	0.239265	GY	BCAM;CBLC	NC_056054.1	100005001	100025001	6.05724	0.227831	HZ	BOLA1;SV2A
11.5535	0.196277	GY	BCAR3	NC_056056.1	203025001	203045001	4.41122	0.389624	HZ	BORCS5
2.54756	0.234785	GY	BCOR	NC_056056.1	203030001	203050001	8.16239	0.435324	HZ	BORCS5
2.58148	0.195578	GY	BNIP3	NC_056056.1	203035001	203055001	10.5738	0.435227	HZ	BORCS5
2.93466	0.21234	GY	BNIP3	NC_056056.1	203040001	203060001	5.22014	0.383112	HZ	BORCS5
2.56105	0.19513	GY	BNIP3	NC_056056.1	203045001	203065001	2.86884	0.323513	HZ	BORCS5
3.59876	0.219603	GY	BOD1	NC_056057.1	105535001	105555001	3.10227	0.324785	HZ	BRAF
2.77012	0.251	GY	BTBD8	NC_056057.1	105540001	105560001	6.17361	0.401672	HZ	BRAF
4.10741	0.193252	GY	BTBD8	NC_056057.1	105545001	105565001	7.24348	0.418816	HZ	BRAF
4.97562	0.229775	GY	BUB1B	NC_056057.1	105550001	105570001	5.75412	0.422262	HZ	BRAF
3.60361	0.378177	GY	BUB1B	NC_056057.1	105555001	105575001	6.76891	0.423738	HZ	BRAF
2.45516	0.260645	GY	C10H13orf42	NC_056057.1	105560001	105580001	4.79977	0.422988	HZ	BRAF
7.00747	0.211625	GY	C12H1orf21	NC_056057.1	105565001	105585001	4.0626	0.43446	HZ	BRAF
20.0108	0.314594	GY	C12H1orf21	NC_056057.1	105570001	105590001	3.5123	0.475044	HZ	BRAF
14.6222	0.326262	GY	C12H1orf21	NC_056057.1	105575001	105595001	2.74092	0.479015	HZ	BRAF
6.09142	0.238563	GY	C12H1orf21	NC_056057.1	105580001	105600001	2.57211	0.528393	HZ	BRAF
4.27339	0.209094	GY	C12H1orf21	NC_056057.1	105585001	105605001	3.73005	0.498064	HZ	BRAF
10.1102	0.202988	GY	C12H1orf21	NC_056057.1	105590001	105610001	4.15231	0.426714	HZ	BRAF
13.8571	0.201186	GY	C12H1orf21	NC_056057.1	105595001	105615001	4.45697	0.407761	HZ	BRAF
6.90418	0.213175	GY	C12H1orf21	NC_056057.1	105600001	105620001	5.97394	0.293381	HZ	BRAF
2.45336	0.26081	GY	C14H16orf95	NC_056057.1	105605001	105625001	9.02723	0.215586	HZ	BRAF
2.61392	0.192306	GY	C14H16orf95	NC_056074.1	46445001	46465001	3.98852	0.31269	HZ	BRISK2
11.3714	0.228097	GY	C14H19orf73;LIN7	NC_056074.1	46450001	46470001	3.63365	0.236863	HZ	BRISK2
11.1475	0.277279	GY	C15H11orf52;DIXE	NC_056074.1	46455001	46475001	6.9948	0.231256	HZ	BRISK2
4.67369	0.264726	GY	C15H11orf52;DIXE	NC_056074.1	46460001	46480001	11.8507	0.217476	HZ	BRISK2
3.3093	0.369616	GY	C15H11orf87	NC_056074.1	46465001	46485001	16.7652	0.221252	HZ	BRISK2
3.26532	0.239997	GY	C15H11orf97	NC_056074.1	46470001	46490001	20.9625	0.225049	HZ	BRISK2
3.09206	0.239149	GY	C15H11orf97	NC_056074.1	46430001	46450001	6.06015	0.288727	HZ	BRISK2;MOB2
2.50275	0.281736	GY	C15H11orf97	NC_056074.1	46435001	46455001	7.0695	0.281658	HZ	BRISK2;MOB2
9.31031	0.22135	GY	C1GALT1C1	NC_056074.1	46440001	46460001	6.46191	0.319769	HZ	BRISK2;MOB2
2.43513	0.193376	GY	C1H1orf146	NC_056054.1	19475001	19495001	5.71552	0.2201	HZ	BTBD19;DYNLT4;PI
3.1777	0.227364	GY	C1H1orf146	NC_056080.1	133045001	133065001	2.94525	0.233775	HZ	BTK;LOC101105982
4.43393	0.271605	GY	C1H1orf146;GLMN	NC_056067.1	12265001	12285001	2.95937	0.254108	HZ	C14H16orf95
6.92514	0.298335	GY	C1H1orf146;GLMN	NC_056067.1	12270001	12290001	5.22694	0.307624	HZ	C14H16orf95
7.32663	0.299362	GY	C1H1orf146;GLMN	NC_056067.1	12275001	12295001	7.51513	0.397481	HZ	C14H16orf95
9.50961	0.324759	GY	C1H1orf146;GLMN	NC_056067.1	12280001	12300001	2.93086	0.300074	HZ	C14H16orf95
2.46299	0.320751	GY	C1H1orf68	NC_056068.1	15625001	15645001	3.82865	0.261539	HZ	C15H11orf97
2.75341	0.201311	GY	C1H3orf33	NC_056068.1	15630001	15650001	2.82878	0.33411	HZ	C15H11orf97
6.58492	0.21792	GY	C3H2orf15;TSGA1	NC_056068.1	15635001	15655001	2.74666	0.38399	HZ	C15H11orf97
17.783	0.31927	GY	C6H4orf17	NC_056068.1	15640001	15660001	2.78724	0.371361	HZ	C15H11orf97
5.72633	0.282454	GY	C6H4orf17	NC_056054.1	104495001	104515001	2.46491	0.315418	HZ	C1H1orf189;C1H1orf
6.018	0.301369	GY	C6H4orf17	NC_056054.1	202870001	202890001	2.49518	0.261565	HZ	C1H3orf70
3.60437	0.286361	GY	C6H4orf17	NC_056073.1	44640001	44660001	2.65861	0.24439	HZ	C20H6orf52;LOC101
2.73921	0.21137	GY	C6H4orf50	NC_056074.1	41180001	41200001	6.28571	0.205282	HZ	C21H11orf80
2.45592	0.206814	GY	C6H4orf50	NC_056056.1	102165001	102185001	3.33701	0.213965	HZ	C3H2orf15;LIPT1;TS
3.03255	0.198088	GY	CADM1	NC_056056.1	102170001	102190001	3.93868	0.223038	HZ	C3H2orf15;TSGA10
4.77652	0.22793	GY	CADM2	NC_056056.1	95640001	95660001	4.3328	0.209227	HZ	C3H2orf78
3.09351	0.263557	GY	CADM2	NC_056059.1	25430001	25450001	16.4273	0.472966	HZ	C6H4orf17
2.64196	0.261988	GY	CADM2	NC_056059.1	25435001	25455001	5.31852	0.413084	HZ	C6H4orf17
2.51149	0.252814	GY	CADM2	NC_056059.1	25440001	25460001	5.74107	0.414029	HZ	C6H4orf17
2.69548	0.268707	GY	CALCOCO1	NC_056059.1	25445001	25465001	3.57143	0.365418	HZ	C6H4orf17
6.09134	0.315134	GY	CALCOCO1	NC_056059.1	25410001	25430001	5.30697	0.284377	HZ	C6H4orf17;TRMT10A/
2.79967	0.277916	GY	CAMKMT	NC_056061.1	49930001	49950001	2.9914	0.227369	HZ	C8H6orf163;SMIM8
4.30836	0.356124	GY	CAMKMT	NC_056056.1	214555001	214575001	2.44894	0.209391	HZ	CACNA1C
6.9461	0.437686	GY	CAMKMT	NC_056056.1	216910001	216930001	2.46022	0.218395	HZ	CACNA1I

14.7925	0.506314	GY	CAMKMT	NC_056056.1	216915001	216935001	2.36659	0.227434	HZ	CACNA1I
16.2034	0.420571	GY	CAMKMT	NC_056054.1	110130001	110150001	5.53947	0.223253	HZ	CADM3
13.1118	0.401848	GY	CAMKMT	NC_056057.1	100200001	100220001	3.35224	0.205276	HZ	CALD1
6.79801	0.348777	GY	CAMKMT	NC_056057.1	100205001	100225001	2.45379	0.214404	HZ	CALD1
2.95555	0.210322	GY	CAMKMT	NC_056059.1	12175001	12195001	15.9236	0.236161	HZ	CAMK2D
2.61368	0.225137	GY	CAMKMT	NC_056056.1	79615001	79635001	3.01062	0.207506	HZ	CAMKMT
4.73105	0.264611	GY	CAMKMT	NC_056056.1	79620001	79640001	3.83455	0.286767	HZ	CAMKMT
3.03994	0.318063	GY	CAMKMT;PREPL	NC_056056.1	79625001	79645001	3.16085	0.330351	HZ	CAMKMT
2.64429	0.214827	GY	CAP2	NC_056056.1	79630001	79650001	2.85284	0.328443	HZ	CAMKMT
2.99176	0.217839	GY	CAP2	NC_056056.1	79740001	79760001	2.79581	0.223374	HZ	CAMKMT
2.60782	0.199077	GY	CAPN8	NC_056056.1	79745001	79765001	3.18432	0.211172	HZ	CAMKMT
2.47323	0.223369	GY	CAPN8	NC_056056.1	79870001	79890001	5.42606	0.218998	HZ	CAMKMT
2.46112	0.227531	GY	CAPN8	NC_056056.1	79875001	79895001	8.49036	0.273091	HZ	CAMKMT
2.43454	0.231333	GY	CAPN8	NC_056056.1	79880001	79900001	17.2403	0.34473	HZ	CAMKMT
4.11652	0.229069	GY	CARD10	NC_056056.1	79885001	79905001	18.7519	0.261275	HZ	CAMKMT
12.2672	0.363904	GY	CARD10	NC_056056.1	79890001	79910001	15.3478	0.219036	HZ	CAMKMT
27.6616	0.400523	GY	CARD10	NC_056058.1	14190001	14210001	5.61203	0.216658	HZ	CAMSAP3;LOC10111
25.023	0.405316	GY	CARD10	NC_056058.1	14180001	14200001	7.24201	0.210048	HZ	CAMSAP3;XAB2
2.86343	0.196249	GY	CASK;GPR82	NC_056073.1	39205001	39225001	6.04045	0.206001	HZ	CAP2
3.36667	0.258705	GY	CASQ1;LOC101111	NC_056080.1	40970001	40990001	2.93795	0.384353	HZ	CASK
2.50976	0.215309	GY	CASS4	NC_056066.1	59190001	59210001	4.50178	0.211776	HZ	CASS4;CSTF1
2.53885	0.199625	GY	CASS4	NC_056065.1	42185001	42205001	2.67256	0.206161	HZ	CASZ1
2.49325	0.198304	GY	CASS4;CSTF1	NC_056067.1	13630001	13650001	4.00979	0.384279	HZ	CBFA2T3
3.32989	0.197755	GY	CBFA2T3	NC_056067.1	13635001	13655001	5.59588	0.333769	HZ	CBFA2T3
6.01939	0.203173	GY	CBFA2T3	NC_056055.1	68515001	68535001	5.7195	0.240088	HZ	CBWD1
8.28723	0.2098	GY	CBFA2T3	NC_056078.1	24275001	24295001	6.51113	0.524355	HZ	CCAR1
2.5365	0.195068	GY	CBFA2T3	NC_056078.1	24280001	24300001	3.03481	0.316653	HZ	CCAR1
5.61269	0.217578	GY	CBLC	NC_056078.1	24260001	24280001	6.67621	0.430784	HZ	CCAR1;TET1
7.53781	0.265426	GY	CBLC	NC_056078.1	24265001	24285001	4.95654	0.447418	HZ	CCAR1;TET1
11.0325	0.266705	GY	CBLC	NC_056080.1	100700001	100720001	3.12061	0.508974	HZ	CCDC160
11.4111	0.260483	GY	CCAR1	NC_056080.1	100705001	100725001	2.79327	0.418771	HZ	CCDC160
9.44763	0.29978	GY	CCAR1;TET1	NC_056080.1	100710001	100730001	2.76078	0.362748	HZ	CCDC160
8.00002	0.295149	GY	CCAR1;TET1	NC_056080.1	100715001	100735001	3.35462	0.345569	HZ	CCDC160
2.51131	0.358495	GY	CCDC43;MEIOC	NC_056064.1	50165001	50185001	2.67233	0.204917	HZ	CCDC57
2.83734	0.192951	GY	CCDC68	NC_056056.1	68690001	68710001	2.44762	0.348891	HZ	CCDC88A
3.21774	0.229163	GY	CCDC68	NC_056077.1	34470001	34490001	7.21528	0.3308	HZ	CCL26
2.65567	0.24663	GY	CCDC68	NC_056059.1	34900001	34920001	8.19445	0.224203	HZ	CCSER1
4.11473	0.19249	GY	CCL1	NC_056059.1	35075001	35095001	2.58004	0.215231	HZ	CCSER1
2.77914	0.202946	GY	CCL1	NC_056059.1	35080001	35100001	2.77659	0.219854	HZ	CCSER1
3.92288	0.214061	GY	CCSER1	NC_056069.1	24130001	24150001	10.228	0.248195	HZ	CDC20B;GPX8
4.04236	0.218709	GY	CCSER1	NC_056069.1	24135001	24155001	15.0968	0.287031	HZ	CDC20B;GPX8
3.26408	0.413228	GY	CCSER1	NC_056069.1	24140001	24160001	16.6666	0.291706	HZ	CDC20B;GPX8
6.69723	0.49504	GY	CCSER1	NC_056069.1	24145001	24165001	6.0828	0.260024	HZ	CDC20B;GPX8
10.3409	0.395961	GY	CCSER1	NC_056067.1	8905001	8925001	2.51912	0.284797	HZ	CDH13
3.60587	0.283298	GY	CCSER1	NC_056067.1	8910001	8930001	2.36141	0.218206	HZ	CDH13
3.21553	0.227416	GY	CDC27	NC_056059.1	91165001	91185001	3.17979	0.507628	HZ	CDKL2
3.40071	0.195469	GY	CDH11	NC_056059.1	91170001	91190001	3.38254	0.544615	HZ	CDKL2
2.5067	0.313797	GY	CDH20	NC_056059.1	91175001	91195001	2.45714	0.520899	HZ	CDKL2
3.1728	0.213472	GY	CDH4	NC_056060.1	4640001	4660001	3.99711	0.347698	HZ	CDO1
2.89706	0.234758	GY	CDH4	NC_056056.1	86835001	86855001	2.36375	0.385527	HZ	CEBPZ;NDUFA7;PF
2.50629	0.191996	GY	CDH4	NC_056067.1	7195001	7215001	11.0811	0.279256	HZ	CENPN
7.31417	0.217728	GY	CDHR1;LRIT2	NC_056067.1	7190001	7210001	5.1365	0.23387	HZ	CENPN;LOC1011211
7.00725	0.202226	GY	CDK5RAP2	NC_056065.1	60575001	60595001	2.45039	0.263384	HZ	CEP350
34.209	0.246699	GY	CDK5RAP2	NC_056060.1	6890001	6910001	2.98252	0.208132	HZ	CERT1
4.31515	0.218688	GY	CDKL2	NC_056060.1	6895001	6915001	4.53449	0.217978	HZ	CERT1
4.79834	0.227392	GY	CDKL2	NC_056057.1	98275001	98295001	2.66893	0.284025	HZ	CHCHD3
3.67321	0.212832	GY	CDKL2	NC_056057.1	98280001	98300001	3.07222	0.29272	HZ	CHCHD3
2.55929	0.198466	GY	CDKL2	NC_056057.1	98285001	98305001	3.27922	0.333112	HZ	CHCHD3
5.61741	0.212566	GY	CDO1	NC_056057.1	98290001	98310001	3.08261	0.247434	HZ	CHCHD3
9.62524	0.313928	GY	CEBPE;SLC7A8	NC_056057.1	98295001	98315001	3.29814	0.238706	HZ	CHCHD3
5.1927	0.225613	GY	CEBPE;SLC7A8	NC_056057.1	98300001	98320001	2.99414	0.211193	HZ	CHCHD3
10.9324	0.275931	GY	CENPN	NC_056056.1	104085001	104105001	3.71667	0.220393	HZ	CIAO1;SNRNP200;T1
4.80426	0.225005	GY	CENPN;LOC10112	NC_056056.1	104090001	104110001	6.18752	0.296825	HZ	CIAO1;SNRNP200;T1
2.83928	0.244791	GY	CERS6	NC_056056.1	104095001	104115001	6.37698	0.309275	HZ	CIAO1;TMEM127
2.93174	0.241536	GY	CERS6	NC_056055.1	135660001	135680001	2.43096	0.279261	HZ	CIR1;SP9
2.89008	0.266233	GY	CERS6	NC_056074.1	41670001	41690001	2.84884	0.209197	HZ	CLCF1
2.96074	0.243953	GY	CERS6	NC_056074.1	41675001	41695001	2.44167	0.208618	HZ	CLCF1;RAD9A
3.29744	0.238159	GY	CERS6	NC_056054.1	126335001	126355001	7.56756	0.401882	HZ	CLDN8
4.23062	0.267056	GY	CERS6	NC_056077.1	10255001	10275001	3.92396	0.231391	HZ	CLEC16A
3.06109	0.230592	GY	CERS6	NC_056077.1	10260001	10280001	2.84482	0.247966	HZ	CLEC16A
2.41682	0.232223	GY	CFAP47	NC_056077.1	10265001	10285001	2.37869	0.235814	HZ	CLEC16A
4.44599	0.26596	GY	CFAP47	NC_056056.1	206075001	206095001	2.62127	0.224809	HZ	CLEC2D
4.9877	0.303454	GY	CFAP47	NC_056056.1	206080001	206100001	3.05008	0.22688	HZ	CLEC2D;LOC101122
4.79166	0.299769	GY	CFAP47	NC_056077.1	33500001	33520001	9.63392	0.330233	HZ	CLIP2

3.38388	0.264793	GY	CFAP47	NC_056077.1	33550001	33570001	3.34565	0.243242	HZ	CLIP2
2.46634	0.286061	GY	CHCHD3	NC_056077.1	26545001	26565001	3.73346	0.279579	HZ	CLN3
2.45663	0.30183	GY	CHCHD3	NC_056077.1	26550001	26570001	3.44576	0.232558	HZ	CLN3
2.85075	0.263047	GY	CHCHD3	NC_056077.1	26540001	26560001	7.61169	0.353169	HZ	CLN3;LOC10111269-
3.3037	0.302985	GY	CHCHD3	NC_056074.1	15935001	15955001	5.75699	0.34549	HZ	CLNS1A
3.4724	0.412706	GY	CHCHD3	NC_056074.1	15940001	15960001	4.12621	0.284837	HZ	CLNS1A
3.15798	0.375407	GY	CHCHD3	NC_056074.1	15945001	15965001	4.11655	0.29062	HZ	CLNS1A
3.4452	0.378972	GY	CHCHD3	NC_056074.1	15920001	15940001	8.75469	0.310244	HZ	CLNS1A;RSF1
3.32904	0.349412	GY	CHCHD3	NC_056064.1	23450001	23470001	2.40939	0.206811	HZ	CLUH;PAFAH1B1
3.64286	0.274425	GY	CHCHD3	NC_056064.1	23455001	23475001	2.60938	0.211162	HZ	CLUH;PAFAH1B1
2.40514	0.216437	GY	CHCHD3	NC_056061.1	15550001	15570001	7.46208	0.20981	HZ	CLVS2
2.65498	0.2261	GY	CHCHD3	NC_056067.1	25440001	25460001	4.31391	0.239678	HZ	CNGB1
2.67213	0.265872	GY	CHCHD3	NC_056067.1	25445001	25465001	7.22807	0.32679	HZ	CNGB1
10.3315	0.261718	GY	CIAO3;HAGHL	NC_056067.1	25450001	25470001	5.71053	0.314336	HZ	CNGB1
3.44972	0.265973	GY	CLDN25;USP28	NC_056067.1	25455001	25475001	4.57143	0.218351	HZ	CNGB1
6.68447	0.311356	GY	CLDN25;USP28	NC_056065.1	27060001	27080001	2.57993	0.430085	HZ	CNIH3
3.00145	0.304402	GY	CLDN25;USP28;ZVNC	_056072.1	7110001	7130001	2.51122	0.288531	HZ	CNOT10
2.68749	0.253168	GY	CLDN25;ZW10	NC_056058.1	63815001	63835001	3.69037	0.302153	HZ	CNOT8;FAXDC2
2.70895	0.194532	GY	CLEC2D	NC_056058.1	63820001	63840001	4.15263	0.310204	HZ	CNOT8;FAXDC2
2.54042	0.230354	GY	CLEC2D	NC_056058.1	63825001	63845001	3.69263	0.334891	HZ	CNOT8;FAXDC2
2.49071	0.235114	GY	CLEC2D;LOC1011	NC_056058.1	63830001	63850001	5.00436	0.354913	HZ	CNOT8;GEMIN5
2.60001	0.201256	GY	CLEC2D;LOC1011	NC_056058.1	63835001	63855001	6.05509	0.346906	HZ	CNOT8;GEMIN5
5.06956	0.202958	GY	CLIC5	NC_056058.1	63840001	63860001	6.09364	0.345473	HZ	CNOT8;GEMIN5
2.9093	0.214157	GY	CLIC5	NC_056056.1	146340001	146360001	2.86397	0.269332	HZ	CNTN1
2.61753	0.279929	GY	CLIC5	NC_056056.1	146345001	146365001	2.82237	0.280573	HZ	CNTN1
8.01785	0.471998	GY	CLIP2	NC_056056.1	146350001	146370001	2.37257	0.286406	HZ	CNTN1
15.7449	0.32805	GY	CLIP2	NC_056056.1	146355001	146375001	2.39621	0.238895	HZ	CNTN1
9.10194	0.309138	GY	CLIP2	NC_056056.1	14640001	146420001	4.43257	0.214006	HZ	CNTN1
5.45622	0.340054	GY	CLIP2	NC_056068.1	9800001	9820001	4.95723	0.228243	HZ	CNTN5
3.6913	0.237771	GY	CLIP2	NC_056057.1	111395001	111415001	2.88282	0.238086	HZ	CNTNAP2
2.58662	0.247045	GY	CLIP2	NC_056057.1	11140001	111420001	2.57834	0.215473	HZ	CNTNAP2
9.97027	0.19695	GY	CLSTN2	NC_056057.1	112050001	112070001	3.10491	0.245987	HZ	CNTNAP2
3.39539	0.243921	GY	CLYBL	NC_056057.1	112055001	112075001	4.51454	0.22226	HZ	CNTNAP2
4.07544	0.276693	GY	CLYBL	NC_056057.1	50065001	50085001	8.37221	0.240208	HZ	COG5
2.61782	0.292834	GY	CLYBL	NC_056057.1	50070001	50090001	11.0562	0.262526	HZ	COG5
2.63225	0.218322	GY	CNGB1	NC_056057.1	50075001	50095001	10.398	0.255728	HZ	COG5;DUS4L
3.73373	0.228005	GY	CNGB1	NC_056057.1	50080001	50100001	4.67413	0.208217	HZ	COG5;DUS4L
4.65024	0.234498	GY	CNGB1	NC_056078.1	25420001	25440001	8.7627	0.22373	HZ	COL13A1
6.86403	0.334667	GY	CNGB1	NC_056059.1	16360001	16380001	3.09075	0.205982	HZ	COL25A1
5.11842	0.339852	GY	CNGB1	NC_056059.1	16365001	16385001	3.47397	0.259402	HZ	COL25A1
3.70239	0.305207	GY	CNGB1	NC_056059.1	16370001	16390001	3.20813	0.250583	HZ	COL25A1
4.82457	0.226348	GY	CNNM2	NC_056080.1	126610001	126630001	3.34452	0.272602	HZ	COL4A5
3.91111	0.217199	GY	CNNM2	NC_056080.1	126615001	126635001	5.29735	0.27286	HZ	COL4A5
2.58607	0.199525	GY	CNNM2	NC_056080.1	126620001	126640001	4.24544	0.27295	HZ	COL4A5
3.45082	0.283333	GY	CNNM2;NT5C2	NC_056080.1	126625001	126645001	3.09819	0.255463	HZ	COL4A5
2.6591	0.226374	GY	CNNM2;NT5C2	NC_056058.1	12400001	12420001	2.69622	0.267517	HZ	COL5A3
2.84937	0.213518	GY	CNOT8;FAXDC2	NC_056058.1	12405001	12425001	2.35326	0.261614	HZ	COL5A3
2.89473	0.20578	GY	CNOT8;FAXDC2	NC_056058.1	12410001	12430001	2.63303	0.237624	HZ	COL5A3
2.63624	0.226427	GY	CNTN1	NC_056058.1	35305001	35325001	2.46481	0.218505	HZ	COMMD10
2.81011	0.209512	GY	CNTN1	NC_056058.1	35355001	35375001	2.60127	0.250097	HZ	COMMD10
3.12623	0.226865	GY	CNTN5	NC_056058.1	35360001	35380001	2.65411	0.236043	HZ	COMMD10
2.53222	0.220345	GY	CNTN5	NC_056058.1	35405001	35425001	2.46976	0.218745	HZ	COMMD10
3.00897	0.247754	GY	CNTN5	NC_056062.1	80320001	80340001	2.47334	0.237431	HZ	CPQ
2.68193	0.286149	GY	CNTN5	NC_056062.1	80325001	80345001	3.01112	0.247738	HZ	CPQ
4.80866	0.193581	GY	CNTN5	NC_056062.1	80330001	80350001	2.91521	0.285002	HZ	CPQ
2.83706	0.206835	GY	CNTNAP2	NC_056062.1	80335001	80355001	2.96722	0.304677	HZ	CPQ
4.02617	0.209473	GY	CNTNAP2	NC_056057.1	68570001	68590001	5.70293	0.265956	HZ	CPVL
5.19397	0.307448	GY	COG5	NC_056057.1	68575001	68595001	17.0173	0.316808	HZ	CPVL
8.69999	0.411813	GY	COG5	NC_056057.1	68625001	68645001	4.66455	0.251798	HZ	CPVL
11.2809	0.460326	GY	COG5	NC_056057.1	68630001	68650001	5.52513	0.261087	HZ	CPVL
10.0714	0.478737	GY	COG5;DUS4L	NC_056057.1	68635001	68655001	6.63744	0.267255	HZ	CPVL
4.56468	0.41879	GY	COG5;DUS4L	NC_056057.1	68640001	68660001	6.89063	0.278388	HZ	CPVL
2.73588	0.349227	GY	COG5;DUS4L	NC_056057.1	68645001	68665001	26.4799	0.248886	HZ	CPVL
4.75432	0.391499	GY	COL19A1	NC_056057.1	68655001	68675001	10.8696	0.238599	HZ	CPVL
6.48861	0.418359	GY	COL19A1	NC_056057.1	68660001	68680001	6.02222	0.243421	HZ	CPVL
6.2779	0.437891	GY	COL19A1	NC_056057.1	69305001	69325001	2.43022	0.249821	HZ	CREB5
2.95402	0.321247	GY	COL19A1	NC_056080.1	6765001	6785001	3.25592	0.214434	HZ	CRLF2
3.11688	0.201354	GY	COL24A1	NC_056068.1	74800001	74820001	2.93063	0.270221	HZ	CRY2
3.20613	0.220676	GY	COL3A1	NC_056068.1	74805001	74825001	6.17566	0.307353	HZ	CRY2
3.81952	0.234926	GY	COL3A1	NC_056068.1	74810001	74830001	6.83455	0.335165	HZ	CRY2
3.56694	0.251745	GY	COL3A1	NC_056068.1	74815001	74835001	2.67773	0.253337	HZ	CRY2
7.11745	0.255125	GY	COL3A1	NC_056068.1	74820001	74840001	2.59799	0.232482	HZ	CRY2
18.1679	0.311151	GY	COL3A1	NC_056068.1	74825001	74845001	2.861	0.263968	HZ	CRY2
21.0973	0.286426	GY	COL3A1	NC_056068.1	74830001	74850001	4.60454	0.238364	HZ	CRY2;MAPK8IP1



21.4039	0.2777	GY	COL3A1	NC_056079.1	3890001	3910001	2.746	0.216383	HZ	CSMD1
6.7037	0.227103	GY	COL3A1	NC_056059.1	86170001	86190001	2.56045	0.263571	HZ	CSN1S1
4.66603	0.195478	GY	COL4A1;COL4A2	NC_056059.1	86175001	86195001	2.499	0.280126	HZ	CSN1S1
10.416	0.242989	GY	COL4A1;COL4A2	NC_056059.1	86190001	86210001	2.44915	0.373613	HZ	CSN1S1;CSN2
2.73591	0.20385	GY	COL6A3	NC_056059.1	86195001	86215001	3.43092	0.440398	HZ	CSN2
4.3182	0.195016	GY	COMMD10	NC_056059.1	86200001	86220001	6.93185	0.541964	HZ	CSN2
2.40117	0.354283	GY	CPA6	NC_056059.1	86205001	86225001	7.12058	0.46922	HZ	CSN2
2.87004	0.346756	GY	CPA6	NC_056059.1	86210001	86230001	2.41296	0.305812	HZ	CSN2
3.45076	0.353776	GY	CPA6	NC_056078.1	21660001	21680001	3.0281	0.275491	HZ	CTNNA3
3.93437	0.357085	GY	CPA6	NC_056078.1	21665001	21685001	7.25876	0.21792	HZ	CTNNA3
3.30368	0.325697	GY	CPA6	NC_056069.1	61520001	61540001	8.61839	0.210333	HZ	CTNND2
2.76138	0.259403	GY	CPA6	NC_056068.1	15690001	15710001	2.53817	0.216917	HZ	CWF19L2
2.73233	0.262498	GY	CPAMD8	NC_056068.1	15720001	15740001	3.0109	0.237136	HZ	CWF19L2
2.47601	0.282667	GY	CPAMD8	NC_056068.1	15740001	15760001	4.94201	0.204824	HZ	CWF19L2
3.63925	0.261919	GY	CPVL	NC_056068.1	15745001	15765001	3.75528	0.22791	HZ	CWF19L2
3.91061	0.215365	GY	CPVL	NC_056068.1	15750001	15770001	2.97828	0.257692	HZ	CWF19L2
23.0399	0.370796	GY	CPVL	NC_056068.1	15755001	15775001	3.48606	0.26858	HZ	CWF19L2
11.118	0.463898	GY	CPVL	NC_056068.1	15760001	15780001	3.82988	0.252212	HZ	CWF19L2
6.54105	0.477674	GY	CPVL	NC_056068.1	15825001	15845001	2.41073	0.496353	HZ	CWF19L2
3.3923	0.210784	GY	CRACDL	NC_056068.1	15830001	15850001	2.93407	0.52191	HZ	CWF19L2
9.00867	0.277301	GY	CRACDL	NC_056068.1	15835001	15855001	2.88388	0.547484	HZ	CWF19L2
5.73663	0.25117	GY	CRACDL	NC_056068.1	15695001	15715001	2.57713	0.261502	HZ	CWF19L2;LOC11411
9.71242	0.20607	GY	CREB5	NC_056058.1	44705001	44725001	16.1984	0.239182	HZ	CXCL14
3.31661	0.392481	GY	CREBRF	NC_056080.1	37130001	37150001	2.51555	0.24292	HZ	CYBB
6.00638	0.43889	GY	CREBRF	NC_056080.1	37135001	37155001	4.24203	0.295236	HZ	CYBB
4.24999	0.394145	GY	CREBRF	NC_056080.1	37140001	37160001	3.7949	0.294915	HZ	CYBB
2.93069	0.367051	GY	CREBRF	NC_056080.1	37145001	37165001	2.51677	0.271923	HZ	CYBB
2.48622	0.214798	GY	CRLS1	NC_056077.1	37170001	37190001	3.04524	0.37874	HZ	CYP3A24
2.50324	0.24108	GY	CRLS1	NC_056077.1	37175001	37195001	3.44456	0.389208	HZ	CYP3A24
5.18152	0.232421	GY	CRLS1	NC_056056.1	181325001	181345001	2.57407	0.624005	HZ	CYTH4
6.37345	0.253239	GY	CRLS1;LRRN4	NC_056063.1	46715001	46735001	2.63387	0.390387	HZ	DACH1
7.51935	0.269429	GY	CRLS1;LRRN4	NC_056063.1	46720001	46740001	4.93219	0.370229	HZ	DACH1
2.44061	0.38187	GY	CSN1S1;CSN2	NC_056063.1	46725001	46745001	3.90336	0.253952	HZ	DACH1
3.42363	0.447976	GY	CSN2	NC_056063.1	46735001	46755001	3.23902	0.276371	HZ	DACH1
6.91171	0.551096	GY	CSN2	NC_056063.1	46740001	46760001	3.25167	0.311367	HZ	DACH1
7.12425	0.48516	GY	CSN2	NC_056063.1	46745001	46765001	3.4775	0.312023	HZ	DACH1
2.43085	0.194846	GY	CSPP1	NC_056063.1	46750001	46770001	4.27299	0.31084	HZ	DACH1
3.41049	0.215563	GY	CSRNP3	NC_056063.1	46755001	46775001	8.69387	0.255613	HZ	DACH1
3.59346	0.238528	GY	CSRNP3	NC_056063.1	46760001	46780001	14.7663	0.213963	HZ	DACH1
2.85498	0.274722	GY	CSRNP3	NC_056063.1	46780001	46800001	4.91974	0.267745	HZ	DACH1
3.93419	0.251326	GY	CSRNP3	NC_056063.1	46785001	46805001	2.83805	0.336008	HZ	DACH1
2.4	0.249159	GY	CSRNP3	NC_056063.1	46845001	46865001	6.96282	0.217384	HZ	DACH1
3.04992	0.317778	GY	CSRNP3	NC_056063.1	47090001	47110001	3.14433	0.328558	HZ	DACH1
4.49218	0.368818	GY	CSRNP3	NC_056063.1	47095001	47115001	2.88139	0.367152	HZ	DACH1
2.77273	0.222369	GY	CSRNP3	NC_056063.1	47100001	47120001	2.58206	0.332821	HZ	DACH1
3.41291	0.251057	GY	CTNNA2	NC_056063.1	47105001	47125001	2.41096	0.312583	HZ	DACH1
4.70343	0.295503	GY	CTNNA2	NC_056055.1	230045001	230065001	8.11111	0.211174	HZ	DAW1
2.62296	0.233461	GY	CTNNA2	NC_056056.1	141550001	141570001	5.2335	0.316707	HZ	DBX2
8.27021	0.19572	GY	CTNND2	NC_056060.1	79015001	79035001	2.55084	0.26247	HZ	DCAF5
4.23636	0.19999	GY	CTTNBP2	NC_056060.1	79020001	79040001	3.66234	0.303349	HZ	DCAF5
2.44006	0.206006	GY	CTTNBP2	NC_056064.1	47605001	47625001	2.71312	0.206318	HZ	DCAF7
2.59257	0.193194	GY	CTTNBP2	NC_056068.1	60905001	60925001	3.84946	0.277426	HZ	DCDC1
2.75959	0.206964	GY	CTTNBP2	NC_056068.1	60910001	60930001	2.87207	0.251996	HZ	DCDC1
3.05764	0.227229	GY	CTTNBP2	NC_056072.1	47740001	47760001	2.41481	0.299494	HZ	DCP1A
2.85143	0.208971	GY	CTTNBP2	NC_056072.1	47745001	47765001	2.49412	0.283738	HZ	DCP1A
3.73572	0.2289	GY	CUBN	NC_056072.1	47750001	47770001	2.89286	0.350576	HZ	DCP1A
3.59151	0.247311	GY	CUBN	NC_056072.1	47755001	47775001	4.41777	0.275285	HZ	DCP1A
4.36689	0.325842	GY	CUBN	NC_056072.1	47760001	47780001	4.64285	0.216715	HZ	DCP1A
2.49507	0.207606	GY	CUBN	NC_056074.1	36395001	36415001	5.70909	0.293651	HZ	DDB1;TKFC
2.49447	0.239174	GY	CWF19L2	NC_056079.1	32505001	32525001	7.42855	0.216261	HZ	DDHD2;NSD3;PLPP5
3.36832	0.237418	GY	CWF19L2	NC_056054.1	114335001	114355001	5.71092	0.206297	HZ	DDR2;HSD17B7
4.6715	0.241527	GY	CWF19L2	NC_056054.1	114340001	114360001	18.6788	0.269138	HZ	DDR2;HSD17B7
7.52435	0.266182	GY	CWF19L2	NC_056054.1	114345001	114365001	25.0508	0.292646	HZ	DDR2;HSD17B7
6.74521	0.255809	GY	CWF19L2	NC_056066.1	60535001	60555001	3.19114	0.209116	HZ	DEFB115
5.50353	0.240704	GY	CWF19L2	NC_056062.1	94205001	94225001	4.28643	0.318646	HZ	DEPTOR;DSCC1
3.83727	0.196881	GY	CWF19L2	NC_056063.1	12675001	12695001	2.47323	0.240078	HZ	DGKH
3.50348	0.201494	GY	CWF19L2	NC_056063.1	12680001	12700001	2.64493	0.259659	HZ	DGKH
3.90344	0.207439	GY	CWF19L2	NC_056063.1	12685001	12705001	2.44329	0.233915	HZ	DGKH
3.08529	0.395394	GY	CWF19L2	NC_056068.1	75265001	75285001	3.33464	0.267221	HZ	DGKZ
3.73784	0.424754	GY	CWF19L2	NC_056068.1	75270001	75290001	4.76924	0.287444	HZ	DGKZ
3.65727	0.446891	GY	CWF19L2	NC_056068.1	75275001	75295001	5.61299	0.250642	HZ	DGKZ
2.52421	0.404647	GY	CWF19L2	NC_056068.1	75280001	75300001	5.15142	0.236251	HZ	DGKZ
2.83958	0.248181	GY	CWF19L2;LOC114	NC_056058.1	78290001	78310001	2.451	0.312988	HZ	DHFR
2.5602	0.276359	GY	CWF19L2;LOC114	NC_056058.1	78295001	78315001	2.65836	0.240346	HZ	DHFR

2.49296	0.206529	GY	CYBB	NC_056065.1	40400001	40420001	2.38193	0.207065	HZ	DHRS3
4.20968	0.239641	GY	CYBB	NC_056059.1	44685001	44705001	4.67146	0.262952	HZ	DHX15
3.7783	0.235181	GY	CYBB	NC_056059.1	44690001	44710001	4.72367	0.243031	HZ	DHX15
2.45804	0.223101	GY	CYBB	NC_056080.1	138240001	138260001	2.98732	0.453668	HZ	DIAPH2;RPA4
3.42712	0.219383	GY	CYFIP2;FNDC9	NC_056068.1	21995001	22015001	2.64099	0.338323	HZ	DIXDC1
3.62322	0.253717	GY	CYFIP2;FNDC9	NC_056074.1	11105001	11125001	2.57089	0.269649	HZ	DLG2
2.99875	0.256419	GY	CYFIP2;FNDC9	NC_056074.1	11110001	11130001	2.86093	0.268182	HZ	DLG2
7.64768	0.212911	GY	CYP2D6;LOC1141	NC_056074.1	11115001	11135001	4.18467	0.221321	HZ	DLG2
3.45123	0.264659	GY	CYTH4	NC_056080.1	63340001	63360001	2.91456	0.20937	HZ	DLG3
3.97981	0.397091	GY	CYTH4	NC_056076.1	38490001	38510001	2.92167	0.226865	HZ	DLGAP1
4.10001	0.558276	GY	CYTH4	NC_056076.1	38495001	38515001	2.93812	0.214593	HZ	DLGAP1
2.72935	0.238235	GY	DACH1	NC_056060.1	65695001	65715001	3.39389	0.225674	HZ	DLGAP5;LGALS3
3.34867	0.229832	GY	DACH1	NC_056080.1	30935001	30955001	3.67413	0.309304	HZ	DMD
3.76016	0.204699	GY	DACH1	NC_056080.1	30940001	30960001	5.63964	0.398818	HZ	DMD
3.69646	0.200346	GY	DACH1	NC_056080.1	30945001	30965001	5.03736	0.403355	HZ	DMD
3.35394	0.204008	GY	DAW1	NC_056080.1	30950001	30970001	4.42094	0.43516	HZ	DMD
7.20228	0.215951	GY	DAW1	NC_056080.1	32150001	32170001	14.9824	0.251934	HZ	DMD
2.60279	0.408557	GY	DBNDD1;GAS8	NC_056080.1	32265001	32285001	2.68497	0.26017	HZ	DMD
7.00682	0.425845	GY	DBNDD1;GAS8;LC	NC_056080.1	32270001	32290001	2.7284	0.236312	HZ	DMD
4.45055	0.380645	GY	DBNDD1;GAS8;LC	NC_056065.1	27350001	27370001	3.0095	0.231834	HZ	DNAH14
6.4477	0.394048	GY	DBNDD1;LOC1011	NC_056065.1	27355001	27375001	3.32863	0.248527	HZ	DNAH14
8.9156	0.407869	GY	DBNDD1;LOC1011	NC_056065.1	27360001	27380001	3.71717	0.281679	HZ	DNAH14
8.90476	0.402545	GY	DBNDD1;LOC1011	NC_056065.1	27365001	27385001	4.16821	0.299087	HZ	DNAH14
5.41624	0.291901	GY	DBX2	NC_056065.1	27370001	27390001	2.46054	0.234696	HZ	DNAH14
3.00303	0.254881	GY	DCHS2	NC_056064.1	30360001	30380001	3.95079	0.26369	HZ	DNAH9
3.17035	0.240079	GY	DCHS2	NC_056064.1	30375001	30395001	14.575	0.271909	HZ	DNAH9
3.70544	0.204866	GY	DCLK2	NC_056063.1	75310001	75330001	4.89903	0.26224	HZ	DOCK9
2.42353	0.295275	GY	DCP1A	NC_056063.1	75315001	75335001	4.46763	0.253401	HZ	DOCK9
3.05134	0.319488	GY	DCP1A	NC_056063.1	75320001	75340001	4.30851	0.226092	HZ	DOCK9
4.68	0.269546	GY	DCP1A	NC_056063.1	75325001	75345001	5.48376	0.246298	HZ	DOCK9
5.33333	0.29425	GY	DCP1A	NC_056063.1	75335001	75355001	3.03411	0.207177	HZ	DOCK9
2.68065	0.199708	GY	DCP1A	NC_056063.1	75340001	75360001	2.65905	0.22423	HZ	DOCK9
5.51637	0.227922	GY	DDB1;TKFC	NC_056063.1	75345001	75365001	2.99115	0.234338	HZ	DOCK9
7.7857	0.293601	GY	DDHD2;NSD3;PLP	NC_056060.1	29105001	29125001	5.34933	0.214316	HZ	DPH6
2.63636	0.208213	GY	DENND3	NC_056060.1	29110001	29130001	8.68216	0.259399	HZ	DPH6
3.11682	0.254486	GY	DENND5B	NC_056060.1	29115001	29135001	10.9454	0.286243	HZ	DPH6
3.20779	0.280274	GY	DENND5B	NC_056060.1	29120001	29140001	9.745	0.288608	HZ	DPH6
4.3964	0.3145	GY	DENND5B	NC_056060.1	29125001	29145001	12.6467	0.28444	HZ	DPH6
3.81503	0.302803	GY	DENND6A	NC_056060.1	29130001	29150001	5.45862	0.228092	HZ	DPH6
2.92972	0.255677	GY	DENND6A	NC_056057.1	63600001	63620001	2.6008	0.353988	HZ	DPY19L1
5.14937	0.235102	GY	DEPTOR;DSCC1	NC_056057.1	63605001	63625001	2.46154	0.291431	HZ	DPY19L1
4.95286	0.250917	GY	DERA	NC_056057.1	63610001	63630001	2.51835	0.21115	HZ	DPY19L1
3.40313	0.195732	GY	DGKZ	NC_056062.1	82445001	82465001	4.44701	0.239661	HZ	DPY19L4
4.77163	0.221168	GY	DGKZ	NC_056062.1	82450001	82470001	6.3367	0.330702	HZ	DPY19L4
5.51412	0.195529	GY	DGKZ	NC_056062.1	82455001	82475001	13.2927	0.381857	HZ	DPY19L4
3.68014	0.200335	GY	DISP1	NC_056062.1	82500001	82520001	2.9339	0.218147	HZ	DPY19L4
3.07433	0.239493	GY	DIXDC1	NC_056054.1	261290001	261310001	2.4987	0.209514	HZ	DSCAM
2.90827	0.228241	GY	DIXDC1	NC_056068.1	27920001	27940001	17.6691	0.255537	HZ	DSCAML1
2.78531	0.197243	GY	DIXDC1	NC_056068.1	27925001	27945001	7.60341	0.205425	HZ	DSCAML1
2.45804	0.247405	GY	DLG2	NC_056068.1	27950001	27970001	4.18406	0.208712	HZ	DSCAML1
3.09865	0.276351	GY	DLG2	NC_056068.1	28045001	28065001	3.1596	0.20533	HZ	DSCAML1
3.29979	0.289442	GY	DLG2	NC_056068.1	28055001	28075001	8.82488	0.292973	HZ	DSCAML1
5.42504	0.250408	GY	DLG2	NC_056068.1	28060001	28080001	15.7584	0.31099	HZ	DSCAML1
5.93549	0.249658	GY	DLG2	NC_056068.1	28065001	28085001	24.9347	0.339214	HZ	DSCAML1
3.93325	0.208781	GY	DLG2	NC_056068.1	28080001	28100001	11.1774	0.367587	HZ	DSCAML1
2.43216	0.277252	GY	DLG3	NC_056068.1	28085001	28105001	3.73433	0.253355	HZ	DSCAML1
2.93025	0.207784	GY	DLGAP1	NC_056062.1	94195001	94215001	5.80698	0.288309	HZ	DSCC1
2.94541	0.201777	GY	DLGAP1	NC_056062.1	94200001	94220001	7.91312	0.342035	HZ	DSCC1
4.07739	0.380771	GY	DMD	NC_056062.1	94180001	94200001	8.26428	0.27171	HZ	DSCC1;TAF2
5.65766	0.409451	GY	DMD	NC_056062.1	94185001	94205001	8.50375	0.265935	HZ	DSCC1;TAF2
5.06322	0.399338	GY	DMD	NC_056062.1	94190001	94210001	12.514	0.301688	HZ	DSCC1;TAF2
4.46032	0.436268	GY	DMD	NC_056061.1	21540001	21560001	4.29915	0.250511	HZ	DSE
2.81208	0.201465	GY	DMD	NC_056073.1	3735001	3755001	2.40525	0.21791	HZ	DST
3.04557	0.206961	GY	DMD	NC_056076.1	22580001	22600001	3.08572	0.222773	HZ	DTNA
2.59857	0.1994	GY	DMD	NC_056076.1	22585001	22605001	7.8762	0.345757	HZ	DTNA
2.7685	0.237633	GY	DMD	NC_056076.1	22590001	22610001	6.33245	0.371441	HZ	DTNA
8.4969	0.228225	GY	DNASE1L3	NC_056076.1	22595001	22615001	2.70413	0.292442	HZ	DTNA
6.5077	0.194639	GY	DNASE1L3	NC_056068.1	80980001	81000001	3.14164	0.286142	HZ	DTX4
2.43619	0.234708	GY	DPF3	NC_056068.1	80985001	81005001	2.78088	0.272956	HZ	DTX4
3.37253	0.22442	GY	DPY19L1	NC_056068.1	80990001	81010001	3.98222	0.261858	HZ	DTX4
3.16463	0.219548	GY	DPY19L1	NC_056068.1	80995001	81015001	4.8555	0.238843	HZ	DTX4
3.15297	0.255847	GY	DPY19L1	NC_056068.1	81000001	81020001	5.02026	0.232244	HZ	DTX4;LOC10110990'
3.05301	0.25115	GY	DPY19L1	NC_056068.1	81005001	81025001	5.42225	0.216246	HZ	DTX4;LOC10110990'
3.46315	0.193835	GY	DPY19L1	NC_056068.1	81010001	81030001	3.24386	0.233074	HZ	DTX4;LOC10110990'

3.77664	0.210775	GY	DPY19L1	NC_056068.1	81015001	81035001	2.89439	0.234907	HZ	DTX4;LOC10110990'
4.06729	0.218904	GY	DPY19L1	NC_056068.1	80975001	80995001	3.63167	0.255756	HZ	DTX4;LOC12181673'
2.42281	0.235291	GY	DPY19L1	NC_056056.1	80500001	80520001	2.448	0.240964	HZ	DYNC2L11;PLEKHH'
3.01179	0.221242	GY	DPY19L4	NC_056056.1	80505001	80525001	2.64051	0.233427	HZ	DYNC2L11;PLEKHH'
4.00993	0.276573	GY	DPY19L4	NC_056080.1	62580001	62600001	3.00358	0.218965	HZ	EDA
6.17587	0.346037	GY	DPY19L4	NC_056080.1	62665001	62685001	2.81111	0.258587	HZ	EDA
12.7439	0.386718	GY	DPY19L4	NC_056080.1	62670001	62690001	6.18855	0.418121	HZ	EDA
27.0779	0.224386	GY	DPY19L4	NC_056080.1	62675001	62695001	8.42966	0.55577	HZ	EDA
28.2563	0.254744	GY	DPY19L4	NC_056080.1	62680001	62700001	11.2759	0.541503	HZ	EDA
10.5455	0.276837	GY	DPY19L4	NC_056080.1	62685001	62705001	12.6145	0.555818	HZ	EDA
2.98275	0.247985	GY	DPY19L4	NC_056080.1	62690001	62710001	9.28647	0.523746	HZ	EDA
2.95155	0.193285	GY	DPYSL3;LOC1218	NC_056080.1	62695001	62715001	13.5766	0.420146	HZ	EDA
2.75332	0.202549	GY	DSCAML1	NC_056080.1	62730001	62750001	2.51861	0.217581	HZ	EDA
2.48765	0.245601	GY	DSCAML1	NC_056058.1	81590001	81610001	4.00735	0.244286	HZ	EDIL3
2.85355	0.243669	GY	DSCAML1	NC_056058.1	81595001	81615001	3.5157	0.291416	HZ	EDIL3
3.32734	0.273633	GY	DSCAML1	NC_056058.1	81600001	81620001	4.14391	0.336781	HZ	EDIL3
2.90965	0.28671	GY	DSCAML1	NC_056064.1	46535001	46555001	4.93204	0.276833	HZ	EFCAB3
2.7369	0.230529	GY	DSCAML1	NC_056064.1	46540001	46560001	4.1893	0.291521	HZ	EFCAB3
2.82537	0.201555	GY	DSCAML1	NC_056064.1	46545001	46565001	3.25947	0.300647	HZ	EFCAB3
3.01556	0.241089	GY	DSCAML1	NC_056064.1	46550001	46570001	3.0416	0.244493	HZ	EFCAB3
3.1579	0.260693	GY	DSCAML1	NW_024599827	550001	570001	5.37074	0.247503	HZ	EFL1
8.88932	0.243157	GY	DSCC1	NW_024599827	555001	575001	4.81612	0.221212	HZ	EFL1
5.3205	0.209193	GY	DSE	NC_056058.1	10418001	10420001	3.97841	0.28317	HZ	EFNA5
10.4709	0.287001	GY	DSE	NC_056058.1	104185001	104205001	7.87363	0.346174	HZ	EFNA5
3.66053	0.268452	GY	DSE	NC_056058.1	10419001	104210001	15.9431	0.377514	HZ	EFNA5
2.81904	0.229135	GY	DVL3;EIF2B5	NC_056058.1	104195001	104215001	15.0714	0.342446	HZ	EFNA5
3.36062	0.209948	GY	DZIP1	NC_056058.1	104200001	104220001	5.97891	0.266495	HZ	EFNA5
3.47145	0.235178	GY	E2F6	NC_056056.1	45365001	45385001	3.57327	0.233526	HZ	EHBP1
2.7476	0.243932	GY	E2F6	NC_056056.1	45370001	45390001	4.84862	0.25656	HZ	EHBP1
2.6832	0.236981	GY	E2F7	NC_056056.1	45375001	45395001	8.91334	0.290313	HZ	EHBP1
11.1863	0.254939	GY	EDA	NC_056072.1	29950001	29970001	4.41145	0.20638	HZ	EIF4E3
14.9902	0.25192	GY	EDA	NC_056072.1	29935001	29955001	8.04153	0.270134	HZ	EIF4E3;GPR27
17.2179	0.26024	GY	EDA	NC_056072.1	29940001	29960001	8.68966	0.294201	HZ	EIF4E3;GPR27
13.0677	0.244063	GY	EDA	NC_056072.1	29945001	29965001	10.7273	0.273947	HZ	EIF4E3;GPR27
15.4817	0.223608	GY	EDA	NC_056072.1	29930001	29950001	4.50335	0.218063	HZ	EIF4E3;GPR27;PROK
2.9971	0.247933	GY	EDIL3	NC_056058.1	92870001	92890001	2.47436	0.20755	HZ	ELL2
8.06371	0.29991	GY	EDIL3	NC_056057.1	61570001	61590001	5.91044	0.21505	HZ	ELMO1
7.10283	0.27884	GY	EDIL3	NC_056057.1	61575001	61595001	8.46458	0.264013	HZ	ELMO1
7.91562	0.246246	GY	EDNRB	NC_056057.1	61580001	61600001	9.6907	0.299846	HZ	ELMO1
4.30708	0.276908	GY	EDNRB	NC_056057.1	61600001	61620001	13.8801	0.254914	HZ	ELMO1
2.87373	0.288136	GY	EDNRB	NC_056080.1	103860001	103880001	2.57424	0.238715	HZ	ENOX2
5.56122	0.218221	GY	EFL1	NC_056062.1	93980001	94000001	8.4064	0.311906	HZ	ENPP2
18.0544	0.254856	GY	EFR3A	NC_056062.1	93985001	94005001	6.53873	0.262064	HZ	ENPP2
2.4515	0.191788	GY	EFR3A;OC90	NC_056062.1	93990001	94010001	3.7392	0.219265	HZ	ENPP2
13.4193	0.243389	GY	EFR3A;OC90	NC_056061.1	57145001	57165001	5.66471	0.327076	HZ	ENPP3
14.7419	0.248464	GY	EFR3A;OC90	NC_056061.1	57150001	57170001	2.40564	0.253883	HZ	ENPP3
7.19031	0.204125	GY	EIF4E3;GPR27	NC_056060.1	1520001	1540001	5.48417	0.29073	HZ	EPB41L4A
4.17226	0.212528	GY	EIF4E3;GPR27;PRC	NC_056060.1	1525001	1545001	10.9977	0.326964	HZ	EPB41L4A
5.50766	0.209254	GY	ELMO1	NC_056060.1	1530001	1550001	9.78237	0.286086	HZ	EPB41L4A
6.67781	0.215618	GY	ELMO1	NC_056060.1	1535001	1555001	7.44618	0.285754	HZ	EPB41L4A
7.24623	0.248232	GY	ELMO1	NC_056055.1	160755001	160775001	3.02904	0.213671	HZ	EPC2
6.37613	0.265581	GY	ELMO1	NC_056055.1	160780001	160800001	2.92291	0.2141	HZ	EPC2
8.02364	0.298281	GY	ELMO1	NC_056077.1	36290001	36310001	6.04336	0.292507	HZ	EPO;ZAN
8.20618	0.333803	GY	ELMO1	NC_056077.1	36295001	36315001	2.84116	0.229889	HZ	EPO;ZAN
8.98191	0.328728	GY	ELMO1	NC_056055.1	214065001	214085001	22.5773	0.239848	HZ	ERBB4
2.57634	0.211184	GY	ELMO1	NC_056055.1	214070001	214090001	21.4196	0.278763	HZ	ERBB4
2.76739	0.22537	GY	ELOA;PITHD1	NC_056055.1	214075001	214095001	17.0357	0.375071	HZ	ERBB4
2.89957	0.240502	GY	ENOX2	NC_056055.1	214080001	214100001	7.04302	0.389906	HZ	ERBB4
4.02718	0.200746	GY	EOGT	NC_056055.1	214085001	214105001	3.68437	0.37044	HZ	ERBB4
4.02438	0.223788	GY	EPAS1	NC_056055.1	214090001	214110001	3.2637	0.338645	HZ	ERBB4
10.9248	0.221514	GY	EPB41L4A	NC_056055.1	214095001	214115001	2.52916	0.31694	HZ	ERBB4
9.72704	0.209681	GY	EPB41L4A	NC_056055.1	214100001	214120001	2.50108	0.324627	HZ	ERBB4
7.53795	0.229345	GY	EPB41L4A	NC_056055.1	214105001	214125001	2.43808	0.315525	HZ	ERBB4
3.72391	0.199841	GY	EPB41L4B	NC_056055.1	214110001	214130001	2.36192	0.317603	HZ	ERBB4
4.0909	0.202601	GY	EPB41L4B	NC_056056.1	213705001	213725001	2.94569	0.21329	HZ	ERC1
3.0806	0.256203	GY	EPB41L4B	NC_056056.1	213710001	213730001	4.69	0.268629	HZ	ERC1
2.93789	0.21513	GY	EPG5	NC_056056.1	213715001	213735001	5.41177	0.259496	HZ	ERC1
2.63309	0.217529	GY	EPG5	NC_056072.1	44815001	44835001	7.69379	0.247659	HZ	ERC2
4.7275	0.280174	GY	EPHA3	NC_056072.1	44820001	44840001	4.30973	0.240402	HZ	ERC2
2.43196	0.274749	GY	EPHA3	NC_056072.1	44825001	44845001	2.94817	0.212342	HZ	ERC2
2.94517	0.265653	GY	ERBB2;GRB7;MIE	NC_056072.1	44995001	45015001	2.74447	0.409333	HZ	ERC2
2.53098	0.274888	GY	ERBB2;GRB7;MIE	NC_056054.1	271440001	271460001	2.96642	0.282482	HZ	ERG
3.10393	0.230067	GY	ERBB2;MIEN1	NC_056054.1	271445001	271465001	3.10954	0.310931	HZ	ERG
3.37725	0.260969	GY	ERBB4	NC_056054.1	271450001	271470001	3.65092	0.33248	HZ	ERG

5.7713	0.303926	GY	ERBB4	NC_056054.1	271455001	271475001	2.6776	0.310548	HZ	ERG
8.8614	0.340874	GY	ERBB4	NC_056069.1	4835001	4855001	2.54944	0.293621	HZ	ERGC1
22.4207	0.372467	GY	ERBB4	NC_056069.1	4840001	4860001	3.64893	0.300998	HZ	ERGC1
20.5625	0.391136	GY	ERBB4	NC_056069.1	4845001	4865001	3.62903	0.249666	HZ	ERGC1
18.8632	0.39034	GY	ERBB4	NC_056079.1	595001	615001	21.4747	0.24913	HZ	ERICH1
14.1607	0.369351	GY	ERBB4	NC_056079.1	600001	620001	21.0094	0.22679	HZ	ERICH1
5.91398	0.251799	GY	ERBB4	NC_056055.1	73940001	73960001	22.5042	0.243983	HZ	ERMP1
2.5547	0.196578	GY	ERBB4	NC_056055.1	73945001	73965001	18.4445	0.24481	HZ	ERMP1
2.52825	0.235154	GY	ERBB4	NC_056055.1	73950001	73970001	15.7967	0.206735	HZ	ERMP1
2.65178	0.199115	GY	ERBB4	NC_056060.1	11480001	11500001	9.18405	0.206465	HZ	ERO1A
3.576	0.528176	GY	ERC1	NC_056056.1	200600001	200620001	2.40506	0.233982	HZ	ERP27
4.52696	0.491414	GY	ERC1	NC_056060.1	85970001	85990001	2.41281	0.251961	HZ	ESRRB
3.12825	0.226127	GY	ERC2	NC_056060.1	85975001	85995001	3.36872	0.306616	HZ	ESRRB
4.53547	0.248047	GY	ERC2	NC_056060.1	85980001	86000001	4.35238	0.343496	HZ	ESRRB
6.50138	0.254729	GY	ERC2	NC_056060.1	85985001	86005001	6.95238	0.387578	HZ	ESRRB
2.77238	0.304162	GY	ERFE;LOC1011093	NC_056060.1	79050001	79070001	3.4163	0.268221	HZ	EXD2
2.80143	0.234178	GY	ERGIC1	NC_056060.1	79055001	79075001	4.57905	0.357623	HZ	EXD2
3.76369	0.266306	GY	ERGIC1	NC_056060.1	79060001	79080001	2.9788	0.379165	HZ	EXD2
3.54754	0.251408	GY	ERGIC1	NC_056060.1	79100001	79120001	3.98704	0.449413	HZ	EXD2
3.89611	0.191718	GY	ERGIC1	NC_056060.1	79105001	79125001	12.9836	0.452743	HZ	EXD2
22.6457	0.203037	GY	ERMP1	NC_056056.1	94245001	94265001	3.79503	0.212704	HZ	EXOC6B
17.8823	0.207076	GY	ERMP1	NC_056064.1	54900001	54920001	6.33989	0.263127	HZ	EXOC7
4.47133	0.20668	GY	ERMP1;RIC1	NC_056064.1	54910001	54930001	6.95983	0.300169	HZ	EXOC7;GALR2;ZAC
7.24491	0.204408	GY	ERMP1;RIC1	NC_056064.1	54915001	54935001	6.21646	0.249088	HZ	EXOC7;GALR2;ZAC
5.08694	0.194903	GY	ERMP1;RIC1	NC_056064.1	54905001	54925001	7.39474	0.29711	HZ	EXOC7;ZACN
4.9534	0.240331	GY	ERN1	NC_056065.1	41785001	41805001	2.41026	0.303046	HZ	EXOSC10
8.46492	0.1932	GY	ERN1	NC_056065.1	41790001	41810001	2.85858	0.334973	HZ	EXOSC10
4.51671	0.197853	GY	ERN1	NC_056065.1	41795001	41815001	2.79032	0.305912	HZ	EXOSC10
3.37558	0.267858	GY	ERO1A	NC_056065.1	41800001	41820001	3.08648	0.299068	HZ	EXOSC10
7.59568	0.32589	GY	ERO1A	NC_056065.1	41805001	41825001	2.37692	0.271711	HZ	EXOSC10
7.10123	0.356361	GY	ERO1A	NC_056080.1	81410001	81430001	5.77571	0.248858	HZ	F8
4.18512	0.320254	GY	ERO1A	NC_056080.1	81460001	81480001	2.44632	0.427479	HZ	F8
3.88373	0.221403	GY	ETV1	NC_056080.1	81465001	81485001	2.80924	0.502728	HZ	F8
2.95731	0.198397	GY	ETV1	NC_056080.1	81470001	81490001	3.22715	0.600193	HZ	F8
3.06397	0.20272	GY	ETV5	NC_056055.1	236020001	236040001	3.0328	0.292522	HZ	FABP3;ZCCHC17
2.86419	0.240884	GY	ETV5	NC_056055.1	236025001	236045001	4.25141	0.393983	HZ	FABP3;ZCCHC17
2.76676	0.251919	GY	ETV5	NC_056055.1	236030001	236050001	5.99999	0.485375	HZ	FABP3;ZCCHC17
2.61997	0.27553	GY	ETV5	NC_056055.1	236035001	236055001	6.43011	0.501471	HZ	FABP3;ZCCHC17
2.54579	0.25399	GY	ETV5	NC_056055.1	236040001	236060001	2.44578	0.421757	HZ	FABP3;ZCCHC17
2.53499	0.208941	GY	ETV5	NC_056059.1	36690001	36710001	3.22176	0.441833	HZ	FAM13A
2.58071	0.20415	GY	ETV5	NC_056059.1	36695001	36715001	3.80574	0.41963	HZ	FAM13A
2.61281	0.197251	GY	ETV5	NC_056065.1	60345001	60365001	2.83836	0.22792	HZ	FAM163A
4.15179	0.198822	GY	EVA1A	NC_056065.1	60350001	60370001	4.23032	0.281624	HZ	FAM163A
4.78004	0.199173	GY	EVA1A	NC_056065.1	60355001	60375001	9.8732	0.301205	HZ	FAM163A
3.13446	0.209202	GY	EVA1A	NC_056065.1	60360001	60380001	7.57569	0.262782	HZ	FAM163A
2.85913	0.212525	GY	EVA1A	NC_056065.1	60365001	60385001	4.85065	0.238591	HZ	FAM163A
3.18821	0.231416	GY	EVA1A	NC_056058.1	91085001	91105001	6.15866	0.236001	HZ	FAM172A
4.04194	0.204443	GY	EVA1A	NC_056058.1	91090001	91110001	6.60813	0.26364	HZ	FAM172A
3.79718	0.20755	GY	EXOC3L4	NC_056059.1	37950001	37970001	2.99212	0.207858	HZ	FAM184B
5.65371	0.300934	GY	EXOC3L4;LOC105	NC_056059.1	37955001	37975001	2.40706	0.25588	HZ	FAM184B
7.31973	0.286648	GY	EXOC3L4;LOC105	NC_056059.1	37960001	37980001	3.09671	0.304478	HZ	FAM184B
16.8701	0.290765	GY	EXOC3L4;LOC105	NC_056059.1	37965001	37985001	4.32621	0.356365	HZ	FAM184B
2.84345	0.355594	GY	EXOSC10	NC_056059.1	37970001	37990001	8.32394	0.401201	HZ	FAM184B
2.99462	0.299344	GY	EXOSC10	NC_056065.1	59810001	59830001	2.50344	0.210122	HZ	FAM20B
3.04864	0.311497	GY	EXOSC10	NC_056060.1	55910001	55930001	3.48937	0.226517	HZ	FAM214A
3.48322	0.252829	GY	F8	NC_056060.1	55915001	55935001	3.27722	0.239921	HZ	FAM214A
4.32658	0.30087	GY	F8	NC_056060.1	55920001	55940001	4.98325	0.340414	HZ	FAM214A
5.42382	0.35925	GY	F8	NC_056060.1	55925001	55945001	7.8102	0.401725	HZ	FAM214A
2.9885	0.233979	GY	FAM13A	NC_056060.1	55930001	55950001	7.82021	0.399562	HZ	FAM214A
6.50159	0.214703	GY	FAM13A	NC_056060.1	55935001	55955001	3.93259	0.329533	HZ	FAM214A
13.6133	0.226014	GY	FAM13A	NC_056056.1	202485001	202505001	3.00012	0.270716	HZ	FAM234B
6.53845	0.209709	GY	FAM13A	NC_056056.1	202490001	202510001	2.52134	0.256067	HZ	FAM234B
4.09206	0.284169	GY	FAM13A	NC_056059.1	13710001	13730001	2.68727	0.22147	HZ	FAM241A
4.0596	0.305487	GY	FAM13A	NC_056054.1	193680001	193700001	3.41042	0.23687	HZ	FAM43A
3.4446	0.246176	GY	FAM163A	NC_056054.1	193685001	193705001	2.75716	0.220005	HZ	FAM43A;LSG1
8.69741	0.29479	GY	FAM163A	NC_056070.1	44690001	44710001	6.03449	0.232404	HZ	FBRSL1
6.70413	0.327642	GY	FAM163A	NC_056070.1	44695001	44715001	5.6213	0.222642	HZ	FBRSL1
4.39931	0.348392	GY	FAM163A	NC_056070.1	44700001	44720001	4.49152	0.209013	HZ	FBRSL1
2.44432	0.264499	GY	FAM163A	NC_056070.1	44705001	44725001	5.39072	0.224016	HZ	FBRSL1
7.99144	0.228395	GY	FAM172A	NC_056070.1	44710001	44730001	5.23116	0.221811	HZ	FBRSL1
4.00114	0.19766	GY	FAM172A	NC_056070.1	44715001	44735001	5.79083	0.233867	HZ	FBRSL1
14.3155	0.224819	GY	FAM184B	NC_056070.1	44720001	44740001	6.98852	0.237637	HZ	FBRSL1
2.56408	0.2888	GY	FAM189A1;NSMC	NC_056070.1	44725001	44745001	6.23077	0.232163	HZ	FBRSL1
3.7398	0.239265	GY	FAM240A	NC_056062.1	77160001	77180001	5.95556	0.316244	HZ	FBXO43

4.01062	0.215111	GY	FAM240A	NC_056062.1	77165001	77185001	5.03439	0.320835	HZ	FBXO43
2.84894	0.257029	GY	FAM3B	NC_056062.1	77170001	77190001	2.81206	0.230149	HZ	FBXO43
3.3307	0.24005	GY	FAM3B	NC_056055.1	2760001	2780001	9.88891	0.627308	HZ	FBXW2
2.68005	0.210312	GY	FAM3B	NC_056055.1	2765001	2785001	8.47137	0.585429	HZ	FBXW2
3.25362	0.199948	GY	FAM3B	NC_056055.1	2770001	2790001	5.7093	0.486429	HZ	FBXW2
5.05251	0.288757	GY	FANCE	NC_056055.1	2775001	2795001	5.51105	0.345587	HZ	FBXW2
6.31017	0.312288	GY	FANCE	NC_056055.1	2780001	2800001	3.87352	0.239493	HZ	FBXW2
5.23486	0.273721	GY	FANCE	NC_056070.1	58035001	58055001	5.72461	0.253071	HZ	FBXW8;TESC
2.61628	0.254551	GY	FAR2	NC_056070.1	58040001	58060001	6.18749	0.332572	HZ	FBXW8;TESC
3.065	0.294948	GY	FARSB	NC_056069.1	8700001	8720001	2.57773	0.209857	HZ	FCHO2
3.64621	0.352681	GY	FARSB;LOC10112	NC_056069.1	8705001	8725001	2.55933	0.209835	HZ	FCHO2
6.00487	0.249433	GY	FBRSL1	NC_056069.1	8710001	8730001	2.41866	0.239702	HZ	FCHO2
6.49427	0.318451	GY	FBRSL1	NC_056069.1	8715001	8735001	2.55753	0.214256	HZ	FCHO2
6.05916	0.323986	GY	FBRSL1	NC_056069.1	8785001	8805001	3.08703	0.210049	HZ	FCHO2
4.62146	0.311301	GY	FBRSL1	NC_056069.1	8790001	8810001	3.22182	0.223408	HZ	FCHO2
5.96025	0.284795	GY	FBRSL1	NC_056069.1	8795001	8815001	3.5721	0.247775	HZ	FCHO2
5.44222	0.263503	GY	FBRSL1	NC_056080.1	96465001	96485001	2.38117	0.208311	HZ	FGF13
6.06123	0.258511	GY	FBRSL1	NC_056063.1	77690001	77710001	3.88514	0.220963	HZ	FGF14
7.25864	0.270183	GY	FBRSL1	NC_056063.1	77695001	77715001	7.97799	0.275023	HZ	FGF14
6.52661	0.257508	GY	FBRSL1	NC_056063.1	77700001	77720001	5.68043	0.285442	HZ	FGF14
6.4563	0.245338	GY	FBRSL1	NC_056063.1	77705001	77725001	4.44334	0.295364	HZ	FGF14
2.46849	0.192151	GY	FBXO31	NC_056063.1	77710001	77730001	3.69191	0.284031	HZ	FGF14
2.7029	0.219048	GY	FBXO31	NC_056072.1	40960001	40980001	3.34158	0.212037	HZ	FHIT
3.87805	0.323391	GY	FBXO31;MAP1LC	NC_056072.1	40965001	40985001	3.20452	0.210339	HZ	FHIT
3.54055	0.360842	GY	FBXO31;MAP1LC	NC_056076.1	21005001	21025001	3.04318	0.230523	HZ	FHOD3
2.55991	0.232395	GY	FBXW11	NC_056056.1	5735001	5755001	4.51524	0.228127	HZ	FIBCD1
2.72751	0.237393	GY	FBXW11	NC_056056.1	5740001	5760001	3.5973	0.212917	HZ	FIBCD1
2.86198	0.246033	GY	FBXW11	NC_056064.1	41730001	41750001	2.36238	0.262121	HZ	FKBP10;P3H4
3.28471	0.289099	GY	FBXW11	NC_056074.1	29545001	29565001	2.43468	0.254861	HZ	FLI1
3.41942	0.312966	GY	FBXW11	NC_056074.1	29550001	29570001	2.45853	0.283698	HZ	FLI1
3.29245	0.286702	GY	FBXW11	NC_056072.1	43355001	43375001	4.19523	0.206402	HZ	FLNB
3.38877	0.278251	GY	FBXW11	NC_056073.1	27400001	27420001	2.99705	0.259503	HZ	FLOT1;IER3;MDC1;TUBB
2.71236	0.250866	GY	FBXW11	NC_056073.1	27395001	27415001	2.38582	0.288874	HZ	FLOT1;IER3;TUBB
3.17639	0.337173	GY	FBXW7	NC_056073.1	27405001	27425001	4.08203	0.2834	HZ	FLOT1;MDC1;TUBB
5.84285	0.414238	GY	FBXW7	NC_056073.1	27410001	27430001	5.85141	0.291995	HZ	FLOT1;MDC1;TUBB
7.21693	0.430165	GY	FBXW7	NC_056080.1	87715001	87735001	3.03468	0.350099	HZ	FMR1
12.2973	0.442149	GY	FBXW7	NC_056080.1	87720001	87740001	2.42857	0.337954	HZ	FMR1
4.30365	0.401462	GY	FBXW7	NC_056056.1	76090001	76110001	4.02469	0.582077	HZ	FOXN2
5.64491	0.322135	GY	FBXW8;TESC	NC_056056.1	76095001	76115001	3.46866	0.483544	HZ	FOXN2
6.15972	0.391919	GY	FBXW8;TESC	NC_056072.1	30105001	30125001	4.34412	0.321634	HZ	FOXP1
3.7551	0.243699	GY	FCGR3A	NC_056072.1	30110001	30130001	2.81081	0.298939	HZ	FOXP1
2.42344	0.283098	GY	FCHO2	NC_056057.1	55935001	55955001	2.41355	0.21884	HZ	FOXP2
2.7264	0.347588	GY	FCHO2	NC_056057.1	55940001	55960001	4.6891	0.2505	HZ	FOXP2
3.05882	0.359203	GY	FCHO2	NC_056057.1	55945001	55965001	4.84238	0.272285	HZ	FOXP2
2.64219	0.382245	GY	FCHO2	NC_056057.1	55950001	55970001	4.42921	0.255396	HZ	FOXP2
2.53684	0.376159	GY	FCHO2	NC_056057.1	55955001	55975001	2.58547	0.228419	HZ	FOXP2
2.59225	0.374568	GY	FCHO2	NC_056079.1	18320001	18340001	2.72189	0.282788	HZ	FRG1
2.40478	0.409126	GY	FCHO2	NC_056079.1	18325001	18345001	2.93536	0.274601	HZ	FRG1
2.49494	0.381114	GY	FCHO2	NC_056079.1	18330001	18350001	3.22683	0.282188	HZ	FRG1
2.54863	0.334023	GY	FCHO2	NC_056079.1	18335001	18355001	4.51813	0.279934	HZ	FRG1
2.58478	0.317727	GY	FCHO2	NC_056079.1	18340001	18360001	4.68124	0.257224	HZ	FRG1
2.76906	0.31228	GY	FCHO2	NC_056079.1	18345001	18365001	5.05555	0.261697	HZ	FRG1
2.49828	0.320969	GY	FCHO2	NC_056066.1	27780001	27800001	13.0567	0.251497	HZ	FRMD4A
2.67729	0.347217	GY	FCHO2	NC_056066.1	27785001	27805001	25.2564	0.253247	HZ	FRMD4A
2.58785	0.359164	GY	FCHO2	NC_056066.1	27790001	27810001	8.77506	0.219793	HZ	FRMD4A
2.70395	0.350419	GY	FCHO2	NC_056063.1	29215001	29235001	2.49999	0.244409	HZ	FRY
2.90543	0.313174	GY	FCHO2	NC_056055.1	126875001	126895001	2.44274	0.216916	HZ	FRZB
2.5086	0.386771	GY	FETUB;HRG	NC_056056.1	75405001	75425001	2.42569	0.226703	HZ	FSHR
2.77054	0.210375	GY	FEV	NC_056054.1	31270001	31290001	4.61224	0.211762	HZ	FYB2
2.42652	0.287148	GY	FHIT	NC_056054.1	31275001	31295001	5.87534	0.214656	HZ	FYB2
3.10236	0.247695	GY	FHL1	NC_056054.1	31280001	31300001	9.95944	0.252946	HZ	FYB2
5.31034	0.195508	GY	FLNB	NC_056054.1	31285001	31305001	11.6908	0.26513	HZ	FYB2
3.07647	0.202266	GY	FLOT1;IER3;MDC1	NC_056072.1	53285001	53305001	2.48936	0.21982	HZ	FYCO1;XCR1
2.6483	0.20609	GY	FLOT1;IER3;TUBB	NC_056072.1	53290001	53310001	3.73109	0.25763	HZ	FYCO1;XCR1
4.04313	0.232743	GY	FLOT1;MDC1;TUBB	NC_056072.1	53295001	53315001	10.4786	0.233136	HZ	FYCO1;XCR1
5.65483	0.266936	GY	FLOT1;MDC1;TUBB	NC_056054.1	131250001	131270001	2.56521	0.25003	HZ	GABPA
5.06173	0.510063	GY	FOXN2	NC_056054.1	131255001	131275001	3.85938	0.37468	HZ	GABPA
3.78201	0.497264	GY	FOXN2	NC_056054.1	131260001	131280001	6.71784	0.427016	HZ	GABPA
4.2973	0.191812	GY	FOXN3	NC_056054.1	131265001	131285001	10.9265	0.400335	HZ	GABPA
2.84802	0.238468	GY	FOXN3	NC_056054.1	131270001	131290001	20.1291	0.390175	HZ	GABPA
5.87454	0.263602	GY	FOXN3	NC_056054.1	131280001	131300001	7.15348	0.300962	HZ	GABPA
3.8568	0.263853	GY	FOXN3	NC_056059.1	65530001	65550001	2.4062	0.22757	HZ	GABRA2
2.53269	0.19822	GY	FOXO1	NC_056059.1	65535001	65555001	2.48418	0.212926	HZ	GABRA2
4.54422	0.241865	GY	FOXP1	NC_056080.1	83505001	83525001	4.24206	0.220956	HZ	GABRA3

2.98431	0.208253	GY	FOXP1	NC_056080.1	83510001	83530001	7.16408	0.281067	HZ	GABRA3
8.01554	0.194613	GY	FOXP2	NC_056080.1	83525001	83545001	7.81396	0.286204	HZ	GABRA3
8.47618	0.217209	GY	FOXP2	NC_056058.1	70935001	70955001	2.36029	0.2459	HZ	GABRA6
8.38125	0.244092	GY	FOXP2	NC_056058.1	70940001	70960001	2.72808	0.258647	HZ	GABRA6
4.44774	0.192876	GY	FOXP2	NC_056058.1	70955001	70975001	2.7497	0.247718	HZ	GABRA6
12.0618	0.273434	GY	FRMD4A	NC_056058.1	63435001	63455001	3.17557	0.377426	HZ	GALNT10
23.5726	0.286252	GY	FRMD4A	NC_056058.1	63440001	63460001	7.03896	0.496827	HZ	GALNT10
8.23577	0.248403	GY	FRMD4A	NC_056058.1	63445001	63465001	7.4	0.515273	HZ	GALNT10
5.59954	0.210842	GY	FRMD4A	NC_056058.1	63450001	63470001	8.00865	0.52452	HZ	GALNT10
2.93229	0.236332	GY	FRMD4A	NC_056058.1	63455001	63475001	4.71428	0.47898	HZ	GALNT10
3.1142	0.193302	GY	FRMD4A	NC_056058.1	63460001	63480001	2.59117	0.402449	HZ	GALNT10
3.14316	0.203975	GY	FRMD4A	NC_056060.1	79130001	79150001	6.72727	0.331537	HZ	GALNT16
2.98451	0.199901	GY	FRMD4A	NC_056060.1	79135001	79155001	6.57777	0.34588	HZ	GALNT16
2.61431	0.215397	GY	FRMD4A	NC_056078.1	1790001	1810001	5.89139	0.210385	HZ	GALNT2
2.79894	0.29469	GY	FRMPD4	NC_056060.1	63225001	63245001	2.95959	0.260757	HZ	GATM
4.85714	0.256544	GY	FYB2	NC_056060.1	6490001	6510001	3.31164	0.233559	HZ	GCNT4
6.1355	0.267217	GY	FYB2	NC_056062.1	50595001	50615001	2.40849	0.208545	HZ	GDAP1
10.6396	0.285111	GY	FYB2	NC_056062.1	80970001	80990001	2.74801	0.214844	HZ	GDF6
15.4408	0.292686	GY	FYB2	NC_056058.1	63845001	63865001	6.06122	0.344097	HZ	GEMIN5
3.15844	0.23093	GY	FYB2;PRKAA2	NC_056058.1	63850001	63870001	4.41946	0.355821	HZ	GEMIN5
5.00002	0.196441	GY	GAB3	NC_056058.1	63855001	63875001	2.77037	0.361406	HZ	GEMIN5
7.86991	0.256806	GY	GAB3	NC_056054.1	260180001	260200001	3.82093	0.320075	HZ	GET1
5.71997	0.230945	GY	GAB3	NC_056054.1	260185001	260205001	6.60526	0.24678	HZ	GET1
4.91841	0.2517	GY	GABPA	NC_056054.1	260190001	260210001	9.78006	0.231392	HZ	GET1
8.58209	0.272434	GY	GABPA	NC_056054.1	260195001	260215001	13.7564	0.242373	HZ	GET1;LCA5L
13.1581	0.279785	GY	GABPA	NC_056057.1	67330001	67350001	3.35255	0.207916	HZ	GGCT
20.1923	0.30082	GY	GABPA	NC_056066.1	26125001	26145001	8.50598	0.216777	HZ	GJD4
6.82324	0.212038	GY	GABPA	NC_056054.1	247310001	247330001	25.2475	0.437134	HZ	GK5
4.68792	0.212531	GY	GABRA3	NC_056054.1	247315001	247335001	24.963	0.397693	HZ	GK5
8.21097	0.257431	GY	GABRA3	NC_056054.1	247320001	247340001	9.9542	0.32739	HZ	GK5
3.04744	0.298737	GY	GABRA6	NC_056054.1	247325001	247345001	3.80372	0.23215	HZ	GK5
2.94313	0.298397	GY	GALE;LYPLA2;PIT	NC_056057.1	80465001	80485001	7.08081	0.247665	HZ	GLI3
5.90143	0.265085	GY	GALNT13	NC_056057.1	80470001	80490001	4.09508	0.278273	HZ	GLI3
7.65174	0.281076	GY	GALNT13	NC_056057.1	80475001	80495001	4.01219	0.282277	HZ	GLI3
4.9067	0.239641	GY	GALNT13	NC_056057.1	80480001	80500001	3.27415	0.228325	HZ	GLI3
3.05078	0.203877	GY	GALNT13	NC_056057.1	80485001	80505001	2.72479	0.254248	HZ	GLI3
19.8864	0.201247	GY	GALNT2	NC_056057.1	80685001	80705001	2.95528	0.280162	HZ	GLI3
3.85582	0.292149	GY	GALNT7	NC_056058.1	92745001	92765001	2.46656	0.222736	HZ	GLRX
2.92983	0.332964	GY	GALNT7	NC_056054.1	232530001	232550001	10.3875	0.246786	HZ	GMPS
2.99643	0.235917	GY	GALNT9	NC_056077.1	1605001	1625001	3.04953	0.228203	HZ	GNPTG;UNKL
2.94389	0.297877	GY	GALNTL6	NC_056077.1	1610001	1630001	2.86812	0.21804	HZ	GNPTG;UNKL
2.75438	0.222143	GY	GAR1	NC_056054.1	20295001	20315001	3.9901	0.208059	HZ	GPBP1L1;TMEM69
2.46185	0.212611	GY	GAR1	NC_056055.1	153175001	153195001	4.28319	0.292377	HZ	GPD2
3.00919	0.234307	GY	GAR1;RRH	NC_056055.1	153180001	153200001	7.58426	0.335961	HZ	GPD2
2.90191	0.239491	GY	GAR1;RRH	NC_056055.1	153185001	153205001	11.203	0.356552	HZ	GPD2
4.10783	0.202106	GY	GAR1;RRH	NC_056055.1	153190001	153210001	8.33335	0.364748	HZ	GPD2
3.11456	0.21039	GY	GCNT4	NC_056055.1	153195001	153215001	4.52245	0.290861	HZ	GPD2
3.53907	0.275036	GY	GCSH;PKD1L2	NC_056080.1	11935001	11955001	6.54443	0.335815	HZ	GPM6B
4.82433	0.290904	GY	GCSH;PKD1L2	NC_056080.1	11940001	11960001	9.06943	0.326952	HZ	GPM6B
2.94149	0.206394	GY	GDAP2	NC_056080.1	11945001	11965001	4.90336	0.354037	HZ	GPM6B
3.06211	0.266425	GY	GFOD2	NC_056080.1	11950001	11970001	2.51905	0.287532	HZ	GPM6B
3.24573	0.28153	GY	GFOD2	NC_056056.1	6465001	6485001	3.53242	0.240814	HZ	GPR107
3.37573	0.306652	GY	GFOD2	NC_056056.1	6470001	6490001	4.43934	0.244334	HZ	GPR107
3.44805	0.294484	GY	GFOD2	NC_056056.1	6475001	6495001	4.15656	0.221445	HZ	GPR107
2.5398	0.276061	GY	GHR	NC_056056.1	6480001	6500001	3.49355	0.210136	HZ	GPR107
2.9389	0.309979	GY	GLB1L3;LOC1141	NC_056056.1	6485001	6505001	2.81863	0.207461	HZ	GPR107
2.48561	0.362496	GY	GLI3	NC_056068.1	2075001	2095001	3.09501	0.233547	HZ	GRIA4
7.49496	0.305422	GY	GLI3	NC_056068.1	2080001	2100001	28.9558	0.391698	HZ	GRIA4
3.6451	0.370847	GY	GLI3	NC_056068.1	2085001	2105001	42.3964	0.387405	HZ	GRIA4
3.27395	0.424854	GY	GLI3	NC_056068.1	2090001	2110001	23.4616	0.370055	HZ	GRIA4
2.68921	0.335542	GY	GLI3	NC_056068.1	2095001	2115001	17.4808	0.365738	HZ	GRIA4
12.8875	0.339612	GY	GLMN	NC_056068.1	2100001	2120001	14.6194	0.358955	HZ	GRIA4
17.8013	0.34546	GY	GLMN	NC_056068.1	2105001	2125001	12.5603	0.384341	HZ	GRIA4
3.52425	0.197782	GY	GLRA2	NC_056068.1	2110001	2130001	16.4857	0.408008	HZ	GRIA4
2.77976	0.203415	GY	GLT1D1	NC_056068.1	2155001	2175001	15.9286	0.487668	HZ	GRIA4
3.87439	0.216578	GY	GLYCAM1	NC_056068.1	2160001	2180001	5.63102	0.401222	HZ	GRIA4
13.65	0.19288	GY	GMPS	NC_056068.1	2165001	2185001	4.24779	0.369162	HZ	GRIA4
2.54982	0.200087	GY	GNL3;PBRM1	NC_056059.1	32110001	32130001	2.52413	0.293813	HZ	GRID2
3.31872	0.256013	GY	GON7;TMEM251	NC_056059.1	32115001	32135001	2.68149	0.294383	HZ	GRID2
2.78068	0.192405	GY	GON7;TMEM251	NC_056054.1	126785001	126805001	2.60869	0.210406	HZ	GRIK1
6.17332	0.253222	GY	GPC3	NC_056054.1	126795001	126815001	3.80827	0.243304	HZ	GRIK1
3.03418	0.302728	GY	GPC3	NC_056054.1	126830001	126850001	2.42993	0.223225	HZ	GRIK1
5.45417	0.232614	GY	GPC5	NC_056077.1	9430001	9450001	2.35355	0.269873	HZ	GRIN2A
5.0679	0.233146	GY	GPC5	NC_056057.1	92400001	92420001	4.34227	0.305559	HZ	GRM8

4.1208	0.213966	GY	GPC5	NC_056057.1	92405001	92425001	6.59174	0.346189	HZ	GRM8
3.41526	0.204033	GY	GPC6	NC_056057.1	92410001	92430001	3.73328	0.302424	HZ	GRM8
6.95505	0.200395	GY	GPD2	NC_056057.1	92415001	92435001	2.95213	0.281438	HZ	GRM8
10.188	0.211762	GY	GPD2	NC_056057.1	92445001	92465001	3.1672	0.322853	HZ	GRM8
7.66094	0.220911	GY	GPD2	NC_056057.1	92450001	92470001	3.02402	0.329885	HZ	GRM8
3.66316	0.329072	GY	GPM6A	NC_056057.1	92455001	92475001	2.54395	0.267032	HZ	GRM8
8.03254	0.325753	GY	GPM6A	NC_056057.1	92480001	92500001	3.01185	0.413307	HZ	GRM8
5.87783	0.389198	GY	GPM6A	NC_056057.1	92485001	92505001	4.39184	0.460715	HZ	GRM8
4.66613	0.378182	GY	GPM6A	NC_056057.1	92490001	92510001	5.04269	0.368157	HZ	GRM8
4.02781	0.352232	GY	GPM6A	NC_056057.1	92495001	92515001	3.70904	0.31792	HZ	GRM8
3.372	0.195722	GY	GPR160;PHC3	NC_056067.1	11080001	11100001	3.2931	0.235246	HZ	GSE1
3.15833	0.26129	GY	GPR174	NC_056067.1	11085001	11105001	2.86696	0.211823	HZ	GSE1
3.17806	0.219203	GY	GPR87;MED12L	NC_056077.1	25865001	25885001	2.70444	0.246434	HZ	GSG1L
2.86557	0.21785	GY	GPR87;MED12L	NC_056077.1	25870001	25890001	2.71429	0.207443	HZ	GSG1L
3.05112	0.224022	GY	GPR87;MED12L	NC_056077.1	26075001	26095001	7.40202	0.239034	HZ	GSG1L
2.70163	0.202219	GY	GPR87;MED12L	NC_056077.1	26080001	26100001	7.74689	0.256823	HZ	GSG1L
3.2158	0.24595	GY	GPR87;MED12L;P	NC_056077.1	26085001	26105001	5.87877	0.274842	HZ	GSG1L
4.39896	0.192181	GY	GREB1L	NC_056077.1	26090001	26110001	5.2064	0.287335	HZ	GSG1L
2.69641	0.250449	GY	GRIA4	NC_056077.1	26095001	26115001	3.22074	0.224779	HZ	GSG1L
2.85714	0.308395	GY	GRIA4	NC_056079.1	25855001	25875001	5.53732	0.259096	HZ	GTF2E2
35.9557	0.253571	GY	GRIA4	NC_056079.1	25860001	25880001	5.08571	0.318167	HZ	GTF2E2
54.1769	0.239682	GY	GRIA4	NC_056079.1	25865001	25885001	4.54434	0.362845	HZ	GTF2E2
30.6811	0.219125	GY	GRIA4	NC_056079.1	25870001	25890001	5.19808	0.354085	HZ	GTF2E2
22.2932	0.206033	GY	GRIA4	NC_056079.1	25875001	25895001	3.75991	0.291588	HZ	GTF2E2
15.2553	0.198461	GY	GRIA4	NC_056079.1	25880001	25900001	3.16635	0.251949	HZ	GTF2E2
4.75687	0.265675	GY	GRID2	NC_056079.1	25885001	25905001	3.10734	0.230494	HZ	GTF2E2
3.44891	0.294078	GY	GRID2	NC_056057.1	76155001	76175001	2.59442	0.362005	HZ	GTPBP10
2.55587	0.293417	GY	GRID2	NC_056057.1	76160001	76180001	3.54447	0.359247	HZ	GTPBP10
2.85484	0.322193	GY	GRID2	NC_056057.1	76165001	76185001	2.93008	0.282144	HZ	GTPBP10
4.0678	0.202024	GY	GRID2	NC_056073.1	15910001	15930001	3.44964	0.226233	HZ	GUCA1ANB;LOC101
3.85312	0.207767	GY	GRID2	NC_056055.1	120985001	121005001	4.39888	0.247651	HZ	GULP1
3.51016	0.222475	GY	GRID2	NC_056055.1	120990001	121010001	6.00223	0.233022	HZ	GULP1
3.11058	0.229508	GY	GRID2	NC_056055.1	120995001	121015001	13.1154	0.311879	HZ	GULP1
3.30935	0.239993	GY	GRID2	NC_056055.1	121000001	121020001	4.16029	0.247323	HZ	GULP1
2.90595	0.208385	GY	GRID2	NC_056055.1	121030001	121050001	8.59601	0.219448	HZ	GULP1
3.27216	0.204466	GY	GRID2	NC_056055.1	121035001	121055001	7.11796	0.210638	HZ	GULP1
4.80311	0.234834	GY	GRID2	NC_056055.1	121040001	121060001	6.81996	0.219408	HZ	GULP1
9.4739	0.260099	GY	GRID2	NC_056055.1	121045001	121065001	3.91956	0.260342	HZ	GULP1
4.64296	0.243394	GY	GRID2	NC_056055.1	121050001	121070001	3.58947	0.251979	HZ	GULP1
2.52039	0.229417	GY	GRID2	NC_056055.1	121055001	121075001	3.11255	0.245204	HZ	GULP1
2.56573	0.305809	GY	GRID2	NC_056073.1	29955001	29975001	2.79721	0.293552	HZ	H1-5;LOC101102344;
2.63799	0.320334	GY	GRID2	NC_056073.1	29950001	29970001	2.63982	0.280325	HZ	H1-5;LOC101102344;
18.3984	0.222217	GY	GRIK5	NC_056057.1	28400001	28420001	2.97091	0.219286	HZ	HDAC9
17.5806	0.217721	GY	GRIK5	NC_056057.1	79200001	79220001	4.34426	0.210018	HZ	HECW1
3.23629	0.314033	GY	GRIN3A	NC_056057.1	79205001	79225001	6.1519	0.31478	HZ	HECW1
2.43602	0.262926	GY	GRIN3A	NC_056057.1	79210001	79230001	6.07054	0.37222	HZ	HECW1
11.37	0.371783	GY	GRIP1	NC_056057.1	79215001	79235001	2.5944	0.278226	HZ	HECW1
2.43296	0.194134	GY	GRM5	NC_056054.1	190290001	190310001	3.29306	0.387839	HZ	HEG1
3.22014	0.279894	GY	GRM5	NC_056075.1	15560001	15580001	3.70654	0.223216	HZ	HELLS;TBC1D12
2.55596	0.245266	GY	GRM7	NC_056075.1	15565001	15585001	3.10211	0.210644	HZ	HELLS;TBC1D12
2.71629	0.202342	GY	GRM7	NC_056059.1	36700001	36720001	5.75362	0.435846	HZ	HERC3
2.42915	0.232381	GY	GRM7	NC_056059.1	36705001	36725001	3.54684	0.286583	HZ	HERC3
3.44164	0.24274	GY	GRM8	NC_056059.1	36820001	36840001	5.44754	0.259499	HZ	HERC3
3.16217	0.247692	GY	GRM8	NC_056059.1	36825001	36845001	4.45733	0.209539	HZ	HERC3
4.57082	0.22064	GY	GRM8	NC_056059.1	36720001	36740001	2.42915	0.219657	HZ	HERC3;NAP1L5
5.71965	0.216858	GY	GRM8	NC_056059.1	36995001	37015001	20.1463	0.304672	HZ	HERC6
4.44717	0.20806	GY	GRM8	NC_056059.1	37000001	37020001	20.6067	0.311429	HZ	HERC6
2.82244	0.222082	GY	GRM8	NC_056059.1	37005001	37025001	17.7073	0.27293	HZ	HERC6
2.71336	0.422334	GY	GSE1	NC_056077.1	34450001	34470001	2.67704	0.381288	HZ	HIP1
2.41111	0.301491	GY	GSG1L	NC_056077.1	34455001	34475001	2.58026	0.382982	HZ	HIP1
2.5222	0.245729	GY	GSG1L	NC_056077.1	34460001	34480001	4.32728	0.416813	HZ	HIP1
3.77188	0.194783	GY	GTDC1	NC_056070.1	63290001	63310001	34.1599	0.228736	HZ	HNF1A
4.46026	0.211529	GY	GTDC1	NC_056070.1	63295001	63315001	32.814	0.20769	HZ	HNF1A
4.27931	0.208377	GY	GTDC1	NC_056060.1	10405001	10425001	2.42566	0.324598	HZ	HOMER1
3.93119	0.20645	GY	GTDC1	NC_056060.1	10410001	10430001	2.74023	0.377075	HZ	HOMER1
5.90299	0.209875	GY	GTF2E2	NC_056070.1	69155001	69175001	3.0841	0.338603	HZ	HORMAD2
5.70793	0.229981	GY	GTF2E2	NC_056070.1	69160001	69180001	9.27064	0.293157	HZ	HORMAD2
5.1896	0.232803	GY	GTF2E2	NC_056070.1	69165001	69185001	14.5664	0.300763	HZ	HORMAD2
3.62864	0.198862	GY	GUCA1ANB;LOC1	NC_056054.1	64005001	64025001	2.47286	0.238202	HZ	HS2ST1;SELENOF
6.39455	0.19873	GY	GUCA1B;LOC1011	NC_056054.1	114350001	114370001	8.00733	0.246151	HZ	HSD17B7
36.5074	0.243992	GY	GULP1	NC_056054.1	114355001	114375001	4.09858	0.210052	HZ	HSD17B7
16.2372	0.211847	GY	GULP1	NC_056075.1	36745001	36765001	2.42237	0.209359	HZ	HSPA12A
12.9279	0.235419	GY	GULP1	NC_056055.1	244650001	244670001	2.56152	0.253481	HZ	HSPG2
2.98038	0.352714	GY	GULP1	NC_056055.1	244655001	244675001	3.34768	0.317138	HZ	HSPG2

2.88694	0.363647	GY	GULP1	NC_056055.1	244660001	244680001	3.17671	0.320608	HZ	HSPG2
2.75826	0.389324	GY	GULP1	NC_056055.1	244665001	244685001	2.43358	0.232781	HZ	HSPG2
3.42651	0.220467	GY	HAVCR2;MED7	NC_056068.1	24150001	24170001	2.48502	0.207418	HZ	HTR3B
4.06885	0.230529	GY	HECW1	NC_056055.1	242485001	242505001	7.79636	0.307704	HZ	IFNLRI;IL22RA1
5.81434	0.347024	GY	HECW1	NC_056057.1	57480001	57500001	3.0597	0.211737	HZ	IFRD1
6.02075	0.355604	GY	HECW1	NC_056077.1	1720001	1740001	2.37297	0.270687	HZ	IFT140;TMEM204
2.46153	0.249415	GY	HECW1	NC_056068.1	28925001	28945001	5.89158	0.338041	HZ	IFT46;KMT2A;TMEM
5.98188	0.312857	GY	HERC3	NC_056068.1	28935001	28955001	2.45575	0.215077	HZ	IFT46;TMEM25
3.08932	0.237015	GY	HGF	NC_056068.1	28930001	28950001	4.35572	0.351022	HZ	IFT46;TMEM25;TTC
2.9613	0.262446	GY	HGF	NC_056060.1	12240001	12260001	2.86817	0.210973	HZ	IGDCC3
4.0172	0.250347	GY	HMCN1	NC_056074.1	45775001	45795001	3.18314	0.215382	HZ	IGF2
5.18182	0.244176	GY	HMCN1	NC_056074.1	45780001	45800001	2.76922	0.222863	HZ	IGF2
3.05069	0.193407	GY	HMCN1	NC_056059.1	73165001	73185001	2.45115	0.303327	HZ	IGFBP7
33.7465	0.293529	GY	HNF1A	NC_056059.1	73170001	73190001	3.16356	0.281401	HZ	IGFBP7
32.6407	0.275856	GY	HNF1A	NC_056059.1	73175001	73195001	2.86617	0.267432	HZ	IGFBP7
4.50251	0.272454	GY	HNRNPAB;PHYKF	NC_056064.1	39940001	39960001	3.60975	0.277392	HZ	IKZF3
4.00426	0.22794	GY	HNRNPAB;PHYKF	NC_056064.1	39950001	39970001	3.05634	0.245068	HZ	IKZF3;ZBPBP2
4.84302	0.197688	GY	HNRNPUL2;LOC1011081	NC_056064.1	39955001	39975001	3.44068	0.213155	HZ	IKZF3;ZBPBP2
3.91796	0.218852	GY	HNRNPUL2;LOC1011081	NC_056056.1	225300001	225320001	3.10046	0.23084	HZ	IL17REL
2.46064	0.219171	GY	HOMER1	NC_056056.1	225305001	225325001	3.87338	0.287326	HZ	IL17REL
6.42677	0.331352	GY	HSF5	NC_056056.1	225310001	225330001	5.61596	0.324736	HZ	IL17REL
4.49443	0.275442	GY	HSF5	NC_056056.1	99580001	99600001	4.66011	0.227911	HZ	IL1R1
5.68453	0.21113	GY	HSF5;RNF43	NC_056056.1	99585001	99605001	4.47668	0.226727	HZ	IL1R1
16	0.311783	GY	HSF5;RNF43	NC_056056.1	99590001	99610001	4.30829	0.227419	HZ	IL1R1
5.89011	0.30846	GY	HSPA6	NC_056056.1	99595001	99615001	4.2187	0.214921	HZ	IL1R1
4.01908	0.291807	GY	HSPA6;LOC1011081	NC_056056.1	99625001	99645001	14.1401	0.217616	HZ	IL1R1
2.97554	0.195259	GY	HTR6;LOC1011081	NC_056056.1	99630001	99650001	14.8925	0.207942	HZ	IL1R1
4.73685	0.308496	GY	HTRA1	NC_056055.1	242490001	242510001	11.5494	0.339883	HZ	IL22RA1
5.62254	0.413347	GY	HTT	NC_056058.1	9965001	9985001	2.46589	0.255287	HZ	IL27RA
5.30049	0.463167	GY	HTT	NC_056058.1	9970001	9990001	2.54262	0.239125	HZ	IL27RA;RLN3
4.34596	0.444517	GY	HTT	NC_056057.1	58705001	58725001	4.25693	0.310798	HZ	IMMP2L
2.98052	0.447258	GY	HTT	NC_056057.1	58710001	58730001	4.08176	0.319564	HZ	IMMP2L
2.57518	0.230674	GY	HTT;LOC12181979	NC_056057.1	58715001	58735001	4.62231	0.34298	HZ	IMMP2L
3.53449	0.34185	GY	HTT;MSANTD1	NC_056057.1	58720001	58740001	4.85156	0.356882	HZ	IMMP2L
3.56433	0.41004	GY	HTT;MSANTD1	NC_056057.1	58725001	58745001	3.38956	0.302043	HZ	IMMP2L
2.59096	0.198386	GY	IFITM10	NC_056057.1	58730001	58750001	3.38107	0.289389	HZ	IMMP2L
2.42529	0.282732	GY	IFRD1	NC_056057.1	58735001	58755001	3.09755	0.217823	HZ	IMMP2L
2.4904	0.264431	GY	IFRD1	NC_056057.1	58740001	58760001	3.22673	0.204979	HZ	IMMP2L
3.70977	0.205354	GY	IFRD1	NC_056057.1	58755001	58775001	4.48537	0.206451	HZ	IMMP2L
4.98669	0.251736	GY	IFRD1	NC_056057.1	58760001	58780001	3.8883	0.241601	HZ	IMMP2L
3.50633	0.252289	GY	IGDCC3	NC_056057.1	58765001	58785001	3.31707	0.285313	HZ	IMMP2L
2.63465	0.292455	GY	IGDCC3	NC_056057.1	58770001	58790001	4.18066	0.287345	HZ	IMMP2L
2.96915	0.235477	GY	IGDCC3	NC_056057.1	58775001	58795001	3.14286	0.264879	HZ	IMMP2L
2.568	0.292378	GY	IGDCC3	NC_056057.1	58780001	58800001	3.14486	0.229507	HZ	IMMP2L
3.10289	0.279221	GY	IGDCC3	NC_056057.1	58900001	58920001	6.61552	0.26093	HZ	IMMP2L
6.2168	0.200571	GY	IL17REL	NC_056057.1	58905001	58925001	5.26327	0.282259	HZ	IMMP2L
2.93177	0.255796	GY	IL27RA	NC_056057.1	58910001	58930001	3.8713	0.266328	HZ	IMMP2L
2.49398	0.297994	GY	IL27RA;PALM3	NC_056057.1	59110001	59130001	2.44098	0.46361	HZ	IMMP2L
3.00464	0.263667	GY	IL27RA;RLN3	NC_056057.1	59115001	59135001	3.57118	0.345728	HZ	IMMP2L
3.00106	0.239592	GY	IL27RA;RLN3	NC_056057.1	59120001	59140001	6.025	0.372551	HZ	IMMP2L
2.82714	0.238436	GY	IMMP2L	NC_056057.1	59125001	59145001	2.69123	0.382584	HZ	IMMP2L
3.28922	0.341134	GY	IMMP2L	NC_056070.1	15300001	15320001	2.38523	0.240936	HZ	INPP4B
3.35279	0.40862	GY	IMMP2L	NC_056070.1	15305001	15325001	2.40657	0.255473	HZ	INPP4B
5.66498	0.280152	GY	IMMP2L	NC_056077.1	41790001	41810001	4.39387	0.35361	HZ	INTS1;MAFK
5.03144	0.267291	GY	IMMP2L	NC_056077.1	41795001	41815001	3.86519	0.303728	HZ	INTS1;MAFK
5.10252	0.247592	GY	IMMP2L	NC_056077.1	41800001	41820001	3.2341	0.25036	HZ	INTS1;MAFK
5.02734	0.268073	GY	IMMP2L	NC_056080.1	99405001	99425001	3.25807	0.323485	HZ	INTS6L
3.46226	0.209485	GY	IMMP2L	NC_056061.1	78645001	78665001	3.80654	0.206271	HZ	IPCEF1
3.23274	0.229642	GY	IMMP2L	NC_056061.1	78650001	78670001	5.39882	0.244397	HZ	IPCEF1
3.19511	0.25587	GY	IMMP2L	NC_056061.1	78655001	78675001	6.37907	0.241538	HZ	IPCEF1
3.32219	0.218251	GY	IMMP2L	NC_056061.1	78660001	78680001	6.66574	0.239729	HZ	IPCEF1
3.75243	0.217425	GY	IMMP2L	NC_056070.1	8560001	8580001	3.78031	0.221158	HZ	IQCM
4.05456	0.212221	GY	IMMP2L	NC_056070.1	8565001	8585001	2.82875	0.247713	HZ	IQCM
3.89018	0.221653	GY	IMMP2L	NC_056054.1	106485001	106505001	3.93411	0.391376	HZ	IQGAP3
2.85541	0.221409	GY	IMMP2L	NC_056054.1	106490001	106510001	4.69919	0.479508	HZ	IQGAP3
3.3048	0.243037	GY	IMMP2L	NC_056054.1	106495001	106515001	3.0233	0.444827	HZ	IQGAP3
4.00294	0.302184	GY	IMMP2L	NC_056054.1	106500001	106520001	2.60639	0.459065	HZ	IQGAP3
7.22087	0.396855	GY	IMMP2L	NC_056080.1	51170001	51190001	2.64583	0.277351	HZ	IQSEC2
7.18546	0.449523	GY	IMMP2L	NC_056056.1	212905001	212925001	10.6353	0.281366	HZ	IQSEC3
4.62101	0.430202	GY	IMMP2L	NC_056056.1	212910001	212930001	2.84514	0.286687	HZ	IQSEC3
3.46668	0.35901	GY	IMMP2L	NC_056067.1	11380001	11400001	3.51383	0.285632	HZ	IRF8
4.06106	0.22601	GY	IMMP2L	NC_056067.1	11385001	11405001	6.7189	0.339182	HZ	IRF8
4.2779	0.217703	GY	INTS1;MAFK	NC_056067.1	11390001	11410001	7.5116	0.239949	HZ	IRF8
3.69813	0.220174	GY	INTS1;MAFK	NC_056066.1	29515001	29535001	3.38288	0.269288	HZ	ITGA8



3.3131	0.211027	GY	INTS1;MAFK	NC_056080.1	63985001	64005001	3.85898	0.399939	HZ	ITGB1BP2;NONO
4.33616	0.194587	GY	INTS6	NC_056056.1	188860001	188880001	2.60941	0.26556	HZ	ITPR2
2.66225	0.27437	GY	IQCG	NC_056056.1	188865001	188885001	5.60521	0.362751	HZ	ITPR2
2.69948	0.299429	GY	IQCG	NC_056056.1	188870001	188890001	6.57295	0.430223	HZ	ITPR2
2.64762	0.229054	GY	IQCM	NC_056056.1	188875001	188895001	6.66062	0.424941	HZ	ITPR2
3.54771	0.247112	GY	IQCM	NC_056056.1	188880001	188900001	5.69214	0.369407	HZ	ITPR2
2.81236	0.22995	GY	IQCM	NC_056056.1	188885001	188905001	3.36555	0.304853	HZ	ITPR2
4.33333	0.296097	GY	IQGAP3	NC_056056.1	188975001	188995001	2.52934	0.2311	HZ	ITPR2
5.86992	0.356029	GY	IQGAP3	NC_056056.1	188980001	189000001	3.39861	0.215343	HZ	ITPR2
3.51651	0.32851	GY	IQGAP3	NC_056056.1	188985001	189005001	4.29019	0.234904	HZ	ITPR2
3.24646	0.315216	GY	IQGAP3	NC_056056.1	188990001	189010001	4.70658	0.250527	HZ	ITPR2
2.4771	0.312357	GY	IQGAP3	NC_056056.1	188995001	189015001	10.6103	0.323717	HZ	ITPR2
2.45312	0.19856	GY	IQSEC2	NC_056056.1	189000001	189020001	11.4932	0.314488	HZ	ITPR2
12.6589	0.236652	GY	IQSEC3	NC_056056.1	189005001	189025001	5.31466	0.249954	HZ	ITPR2
3.4	0.256414	GY	ISLR2	NC_056055.1	73330001	73350001	4.25675	0.226756	HZ	JAK2
19.8589	0.222595	GY	ISM2;SPTLC2	NC_056055.1	73335001	73355001	3.89705	0.212864	HZ	JAK2
2.93065	0.207344	GY	ITGAE	NC_056055.1	73345001	73365001	5.11179	0.215031	HZ	JAK2
7.6282	0.191683	GY	ITGAE;NCBP3	NC_056055.1	73350001	73370001	9.44047	0.261172	HZ	JAK2
3.54488	0.35949	GY	ITGB1BP2;NONO	NC_056055.1	73380001	73400001	9.33094	0.296419	HZ	JAK2
5.91918	0.275492	GY	ITPR2	NC_056055.1	73385001	73405001	3.92772	0.251018	HZ	JAK2
7.21974	0.358198	GY	ITPR2	NC_056068.1	28605001	28625001	2.63306	0.234137	HZ	JAML;SCN2B
7.45367	0.37813	GY	ITPR2	NC_056060.1	84740001	84760001	11.8284	0.225522	HZ	JDP2
6.22285	0.362084	GY	ITPR2	NC_056064.1	41350001	41370001	5.25144	0.298105	HZ	K38;V15
3.49575	0.325752	GY	ITPR2	NC_056064.1	41355001	41375001	3.19925	0.260553	HZ	K38;V15
2.47496	0.205855	GY	ITPR2	NC_056064.1	41360001	41380001	2.38271	0.227816	HZ	K38;V15
2.67068	0.295088	GY	ITSN1	NC_056054.1	232105001	232125001	3.01602	0.223632	HZ	KCNAB1
2.48524	0.291354	GY	ITSN1	NC_056054.1	232110001	232130001	2.49617	0.222781	HZ	KCNAB1
12.0645	0.256807	GY	JADE1;SCLT1	NC_056056.1	104375001	104395001	2.49327	0.226016	HZ	KCNIP3
4.01191	0.731841	GY	JAK2	NC_056056.1	104385001	104405001	5.5928	0.209456	HZ	KCNIP3
4.3813	0.745413	GY	JAK2	NC_056056.1	104390001	104410001	6.93006	0.238054	HZ	KCNIP3
3.28856	0.225049	GY	JARID2	NC_056056.1	104395001	104415001	8.03695	0.236131	HZ	KCNIP3
5.06393	0.277629	GY	K38;V15	NC_056056.1	104400001	104420001	7.11701	0.268769	HZ	KCNIP3
2.88693	0.255357	GY	K38;V15	NC_056056.1	104405001	104425001	5.11577	0.268605	HZ	KCNIP3
11.304	0.204163	GY	KAT2B	NC_056056.1	104410001	104430001	4.34903	0.291922	HZ	KCNIP3;PROM2
12.1727	0.206879	GY	KAT2B	NC_056056.1	104415001	104435001	5.31794	0.405669	HZ	KCNIP3;PROM2
15.6083	0.227424	GY	KAT2B	NC_056056.1	104420001	104440001	6.86473	0.422891	HZ	KCNIP3;PROM2
19.0588	0.24927	GY	KAT2B	NC_056059.1	41675001	41695001	4.85983	0.365825	HZ	KCNIP4
20.1223	0.279781	GY	KAT2B	NC_056059.1	41680001	41700001	3.16792	0.337473	HZ	KCNIP4
6.4186	0.230498	GY	KAT2B	NC_056054.1	208970001	208990001	2.99593	0.221694	HZ	KCNMB2
4.97583	0.217391	GY	KAT2B	NC_056074.1	45450001	45470001	2.88038	0.221748	HZ	KCNQ1
4.97296	0.210236	GY	KAT2B	NC_056074.1	45460001	45480001	18.9375	0.337836	HZ	KCNQ1
5.41137	0.210599	GY	KAT2B	NC_056074.1	45465001	45485001	11.6216	0.296816	HZ	KCNQ1
10.8732	0.230693	GY	KAT2B	NC_056074.1	45470001	45490001	10.0414	0.263547	HZ	KCNQ1
12.6666	0.242016	GY	KAT2B	NC_056074.1	45475001	45495001	7.91603	0.219521	HZ	KCNQ1
12.8862	0.245342	GY	KAT2B	NC_056080.1	44090001	44110001	4.63333	0.661361	HZ	KDM6A
5.75391	0.202413	GY	KAT2B	NC_056080.1	44095001	44115001	5.57693	0.665163	HZ	KDM6A
2.9861	0.199294	GY	KCNAB1	NC_056080.1	44100001	44120001	5.50288	0.651503	HZ	KDM6A
3.66083	0.217406	GY	KCND2	NC_056080.1	44105001	44125001	3.94916	0.587774	HZ	KDM6A
2.62407	0.28267	GY	KCNH5	NC_056080.1	44110001	44130001	4.88889	0.53215	HZ	KDM6A
7.84538	0.239244	GY	KCNH8	NC_056080.1	44115001	44135001	3.18997	0.449241	HZ	KDM6A
21.9565	0.295788	GY	KCNH8	NC_056058.1	91380001	91400001	6.54476	0.211756	HZ	KIAA0825
20.6937	0.304204	GY	KCNH8	NC_056058.1	91385001	91405001	4.04805	0.21254	HZ	KIAA0825
12.4947	0.280404	GY	KCNH8	NC_056058.1	91390001	91410001	3.46051	0.208182	HZ	KIAA0825
11.5753	0.27402	GY	KCNH8	NC_056073.1	38865001	38885001	2.56035	0.282731	HZ	KIF13A
10.5021	0.271929	GY	KCNH8	NC_056073.1	38870001	38890001	2.57275	0.317936	HZ	KIF13A
13.2055	0.273968	GY	KCNH8	NC_056073.1	38880001	38900001	2.57074	0.348192	HZ	KIF13A
17.5392	0.257619	GY	KCNH8	NC_056073.1	38885001	38905001	6.45395	0.266394	HZ	KIF13A
13.9006	0.202994	GY	KCNH8	NC_056073.1	38890001	38910001	7.65886	0.264142	HZ	KIF13A
5.21832	0.225872	GY	KCNIP4	NC_056073.1	38895001	38915001	4.80322	0.250032	HZ	KIF13A
3.21331	0.2204	GY	KCNIP4	NC_056073.1	38900001	38920001	2.45739	0.239106	HZ	KIF13A
6.11402	0.198025	GY	KCNK10	NC_056073.1	38930001	38950001	2.50914	0.283321	HZ	KIF13A
3.19411	0.235506	GY	KCNN2	NC_056073.1	38935001	38955001	2.73066	0.267039	HZ	KIF13A
16.0625	0.217596	GY	KCNQ1	NC_056073.1	38940001	38960001	5.02906	0.294232	HZ	KIF13A
3.772	0.267893	GY	KDM6A	NC_056073.1	38945001	38965001	2.49828	0.207887	HZ	KIF13A
11.05	0.382825	GY	KDM6A	NC_056073.1	38965001	38985001	2.7567	0.28041	HZ	KIF13A
10.6282	0.36337	GY	KDM6A	NC_056073.1	38970001	38990001	3.13393	0.227485	HZ	KIF13A
9.38727	0.341485	GY	KDM6A	NC_056074.1	27385001	27405001	2.93584	0.208677	HZ	KIRREL3
5.86101	0.302804	GY	KDM6A	NC_056074.1	27390001	27410001	2.84738	0.222263	HZ	KIRREL3
5.93253	0.252499	GY	KDM6A	NC_056063.1	49250001	49270001	3.80296	0.240928	HZ	KLF12
3.88173	0.228144	GY	KDM6A	NC_056063.1	49255001	49275001	5.63426	0.302978	HZ	KLF12
3.69302	0.327908	GY	KHDRBS2	NC_056063.1	49260001	49280001	4.09422	0.259162	HZ	KLF12
3.59655	0.305036	GY	KHDRBS2	NC_056066.1	44180001	44200001	2.48955	0.214268	HZ	KLF6
4.58426	0.196921	GY	KIAA0319L	NC_056066.1	44185001	44205001	2.46467	0.231793	HZ	KLF6
6.08537	0.219968	GY	KIAA1549L	NC_056066.1	44190001	44210001	2.44676	0.21707	HZ	KLF6

4.82352	0.237184	GY	KIF13A	NC_056063.1	44610001	44630001	5.78178	0.242348	HZ	KLHL1
2.84669	0.204882	GY	KIF13A	NC_056063.1	44675001	44695001	3.40189	0.223988	HZ	KLHL1
2.88785	0.230231	GY	KIF13A	NC_056063.1	44680001	44700001	3.6996	0.25688	HZ	KLHL1
2.5942	0.235866	GY	KIF13A	NC_056063.1	44685001	44705001	3.09251	0.241581	HZ	KLHL1
2.66349	0.254013	GY	KIF13A	NC_056063.1	44690001	44710001	2.86808	0.221938	HZ	KLHL1
3.4442	0.192924	GY	KIF13A	NC_056063.1	44695001	44715001	3.37589	0.232581	HZ	KLHL1
2.71679	0.22017	GY	KIRREL3	NC_056063.1	44700001	44720001	6.13407	0.283775	HZ	KLHL1
2.44117	0.215893	GY	KLF12	NC_056063.1	44705001	44725001	11.2896	0.332919	HZ	KLHL1
3.50464	0.197992	GY	KLF12	NC_056063.1	44710001	44730001	14.6995	0.354664	HZ	KLHL1
4.29588	0.208262	GY	KLF12	NC_056063.1	44715001	44735001	10.8616	0.336278	HZ	KLHL1
4.55906	0.206228	GY	KLF12	NC_056063.1	44720001	44740001	6.72802	0.307643	HZ	KLHL1
3.96446	0.201683	GY	KLF12	NC_056063.1	44725001	44745001	3.22638	0.233662	HZ	KLHL1
2.40772	0.274425	GY	KLF12	NC_056063.1	44755001	44775001	3.42368	0.304566	HZ	KLHL1
9.13773	0.191791	GY	KLF5	NC_056063.1	44760001	44780001	6.09755	0.31376	HZ	KLHL1
7.09525	0.327596	GY	KLHL1	NC_056063.1	44765001	44785001	12.4255	0.303856	HZ	KLHL1
7.31092	0.336191	GY	KLHL1	NC_056063.1	44770001	44790001	15.7209	0.297101	HZ	KLHL1
7.36507	0.312012	GY	KLHL1	NC_056063.1	44775001	44795001	15.1905	0.254025	HZ	KLHL1
10.1146	0.337729	GY	KLHL1	NC_056063.1	44780001	44800001	14.8333	0.247588	HZ	KLHL1
5.81818	0.270104	GY	KLHL1	NC_056063.1	44785001	44805001	17.7815	0.269444	HZ	KLHL1
2.73302	0.224914	GY	KLHL1	NC_056063.1	44790001	44810001	17.4427	0.273849	HZ	KLHL1
3.12622	0.223065	GY	KLHL1	NC_056063.1	44795001	44815001	24.3303	0.350996	HZ	KLHL1
3.62785	0.223152	GY	KLHL1	NC_056063.1	44800001	44820001	20.9593	0.388173	HZ	KLHL1
3.96075	0.250454	GY	KLHL1	NC_056063.1	44805001	44825001	18.3225	0.444011	HZ	KLHL1
4.32613	0.262382	GY	KLHL1	NC_056063.1	44810001	44830001	23.5823	0.474703	HZ	KLHL1
3.72728	0.244466	GY	KLHL1	NC_056063.1	44815001	44835001	28.1432	0.48632	HZ	KLHL1
3.43329	0.224282	GY	KLHL1	NC_056063.1	44820001	44840001	40.578	0.49357	HZ	KLHL1
3.85961	0.23886	GY	KLHL1	NC_056063.1	44825001	44845001	47.1011	0.436167	HZ	KLHL1
6.54167	0.250708	GY	KLHL1	NC_056063.1	44830001	44850001	30.2315	0.395098	HZ	KLHL1
11.304	0.28533	GY	KLHL1	NC_056063.1	44835001	44855001	21.7775	0.303304	HZ	KLHL1
14.6256	0.285156	GY	KLHL1	NC_056063.1	44840001	44860001	23.6961	0.259666	HZ	KLHL1
10.955	0.27187	GY	KLHL1	NC_056063.1	44845001	44865001	21.6959	0.282638	HZ	KLHL1
6.8022	0.270691	GY	KLHL1	NC_056063.1	44850001	44870001	30.3943	0.303473	HZ	KLHL1
3.34506	0.250225	GY	KLHL1	NC_056063.1	44855001	44875001	32.7485	0.355876	HZ	KLHL1
2.44107	0.2618	GY	KLHL1	NC_056063.1	44860001	44880001	16.7312	0.385953	HZ	KLHL1
3.91843	0.241718	GY	KLHL1	NC_056063.1	44865001	44885001	18.3886	0.398001	HZ	KLHL1
6.56909	0.234158	GY	KLHL1	NC_056063.1	44870001	44890001	18.8036	0.42618	HZ	KLHL1
11.7943	0.250359	GY	KLHL1	NC_056063.1	44875001	44895001	16.1611	0.447196	HZ	KLHL1
13.6977	0.272508	GY	KLHL1	NC_056063.1	44880001	44900001	15.7468	0.402245	HZ	KLHL1
12.5	0.261588	GY	KLHL1	NC_056063.1	44885001	44905001	7.56011	0.251251	HZ	KLHL1
11.9524	0.274542	GY	KLHL1	NC_056063.1	45010001	45030001	2.39755	0.263703	HZ	KLHL1
15.0252	0.323392	GY	KLHL1	NC_056063.1	45045001	45065001	2.41622	0.291523	HZ	KLHL1
14.9771	0.347124	GY	KLHL1	NC_056063.1	45050001	45070001	3.51404	0.33822	HZ	KLHL1
22.9911	0.39705	GY	KLHL1	NC_056063.1	45055001	45075001	3.27581	0.324238	HZ	KLHL1
21.065	0.413071	GY	KLHL1	NC_056063.1	45060001	45080001	2.89599	0.315396	HZ	KLHL1
19.7578	0.410846	GY	KLHL1	NC_056063.1	45065001	45085001	2.4446	0.285303	HZ	KLHL1
26.0374	0.431734	GY	KLHL1	NC_056080.1	116860001	116880001	2.48606	0.303804	HZ	KLHL13
30.8173	0.449124	GY	KLHL1	NC_056068.1	28840001	28860001	2.61271	0.293338	HZ	KMT2A
45.4132	0.422418	GY	KLHL1	NC_056068.1	28845001	28865001	5.62499	0.428361	HZ	KMT2A
49.7	0.398899	GY	KLHL1	NC_056070.1	52260001	52280001	2.38982	0.23116	HZ	KMT5A
31.6635	0.354117	GY	KLHL1	NC_056070.1	52265001	52285001	3.07392	0.213264	HZ	KMT5A;SBNO1
21.0432	0.297636	GY	KLHL1	NC_056054.1	201265001	201285001	2.46884	0.219113	HZ	KNG1
25.695	0.284746	GY	KLHL1	NC_056076.1	40470001	40490001	2.75367	0.207285	HZ	LAMA1
27.7586	0.271842	GY	KLHL1	NC_056057.1	50640001	50660001	3.05796	0.361771	HZ	LAMB4
40.2921	0.269367	GY	KLHL1	NC_056057.1	50645001	50665001	4.69414	0.400728	HZ	LAMB4
45.6655	0.296762	GY	KLHL1	NC_056057.1	50650001	50670001	3.92669	0.394379	HZ	LAMB4
20.3658	0.310962	GY	KLHL1	NC_056057.1	50655001	50675001	2.75954	0.304788	HZ	LAMB4
19.8457	0.346283	GY	KLHL1	NC_056080.1	36905001	36925001	3.31659	0.293522	HZ	LANCL3
20.2262	0.382392	GY	KLHL1	NC_056056.1	27895001	27915001	3.45299	0.217489	HZ	LAPT4M4A
17.3833	0.397868	GY	KLHL1	NC_056058.1	63715001	63735001	3.5566	0.206709	HZ	LARP1
15.0844	0.402787	GY	KLHL1	NC_056058.1	63725001	63745001	4.15316	0.239012	HZ	LARP1
5.98241	0.304837	GY	KLHL1	NC_056054.1	26020001	260220001	19.61	0.251721	HZ	LCA5L
3.81482	0.200931	GY	KLHL1	NC_056054.1	260205001	260225001	23.2372	0.254951	HZ	LCA5L
2.87373	0.234093	GY	KLHL25	NC_056054.1	260210001	260230001	23.6115	0.241705	HZ	LCA5L
3.11597	0.209336	GY	KLHL25	NC_056054.1	260215001	260235001	22.1095	0.232502	HZ	LCA5L
2.45395	0.308793	GY	KLHL5	NC_056054.1	260220001	260240001	22.2229	0.258416	HZ	LCA5L
2.57226	0.28247	GY	KLHL5	NC_056054.1	260225001	260245001	24.8231	0.330578	HZ	LCA5L
2.51155	0.244842	GY	KLHL5	NC_056054.1	260230001	260250001	23.1938	0.370774	HZ	LCA5L
2.67735	0.219255	GY	KRBA2;RNF222;R	NC_056054.1	260235001	260255001	18.7178	0.361204	HZ	LCA5L
6.12396	0.199325	GY	KREMEN1	NC_056054.1	260240001	260260001	15.7021	0.357771	HZ	LCA5L
3.36589	0.249931	GY	KREMEN1	NC_056059.1	38065001	38085001	15.6625	0.638702	HZ	LCORL
2.81825	0.260798	GY	KREMEN1	NC_056059.1	112540001	112560001	3.28837	0.223454	HZ	LDB2
2.40262	0.198933	GY	KRT80	NC_056059.1	112545001	112565001	3.44022	0.287742	HZ	LDB2
18.875	0.280603	GY	LCORL	NC_056068.1	56940001	56960001	3.63385	0.440419	HZ	LGR4
2.70284	0.194217	GY	LDLRAD3	NC_056068.1	56945001	56965001	6.68302	0.504461	HZ	LGR4

8.47925	0.217737	GY	LGR4	NC_056059.1	61095001	61115001	4.83556	0.217766	HZ	LIMCH1
3.05667	0.216852	GY	LHFPL2	NC_056059.1	61100001	61120001	6.19999	0.244868	HZ	LIMCH1
4.26413	0.267755	GY	LHFPL2	NC_056059.1	61105001	61125001	3.43659	0.236577	HZ	LIMCH1
5.6337	0.318593	GY	LHFPL2	NC_056059.1	61110001	61130001	3.42568	0.216764	HZ	LIMCH1
5.49324	0.311951	GY	LHFPL2	NC_056068.1	56950001	56970001	10.8218	0.531102	HZ	LIN7C
9.04929	0.304585	GY	LHFPL2	NC_056068.1	56955001	56975001	6.32673	0.509926	HZ	LIN7C
15.7217	0.28041	GY	LHFPL2	NC_056068.1	56960001	56980001	2.9453	0.43337	HZ	LIN7C
8.68037	0.195024	GY	LHFPL2	NC_056065.1	28540001	28560001	2.51113	0.210935	HZ	LIN9
9.35417	0.267401	GY	LHFPL3	NC_056055.1	97295001	97315001	2.51698	0.314959	HZ	LINGO2
20.6489	0.300442	GY	LHFPL3	NC_056055.1	97300001	97320001	3.72964	0.35506	HZ	LINGO2
16.4715	0.295433	GY	LHFPL3	NC_056055.1	97305001	97325001	2.82622	0.327468	HZ	LINGO2
6.44953	0.249465	GY	LHFPL3	NC_056055.1	97685001	97705001	3.21657	0.339682	HZ	LINGO2
13.2012	0.233123	GY	LIN7C	NC_056055.1	97690001	97710001	3.01343	0.398931	HZ	LINGO2
7.45545	0.230261	GY	LIN7C	NC_056060.1	49850001	49870001	15.9111	0.22308	HZ	LIPC
8.28928	0.279742	GY	LINGO2	NC_056060.1	49860001	49880001	21.5071	0.239398	HZ	LIPC
6.20598	0.27029	GY	LINGO2	NC_056060.1	49865001	49885001	23.4844	0.236319	HZ	LIPC
4.05707	0.243997	GY	LINGO2	NC_056056.1	18990001	18992001	2.44559	0.314074	HZ	LMNTD1
2.88058	0.211172	GY	LINGO2	NC_056056.1	18992001	18994001	2.515	0.31866	HZ	LMNTD1
4.18626	0.245043	GY	LINGO2	NC_056056.1	189925001	189945001	2.44814	0.299794	HZ	LMNTD1
4.75371	0.204352	GY	LINGO2	NC_056064.1	41325001	41345001	2.61327	0.342075	HZ	LOC100526781
3.71593	0.200429	GY	LINGO2	NC_056064.1	41330001	41350001	2.41704	0.447181	HZ	LOC100526781
5.35884	0.221314	GY	LIPT1;MITD1	NC_056064.1	41335001	41355001	2.71858	0.43779	HZ	LOC100526781
2.50427	0.491993	GY	LOC100526781	NC_056064.1	41320001	41340001	3.31029	0.339951	HZ	LOC100526781;LOC1
2.80343	0.429324	GY	LOC100526781	NC_056064.1	41340001	41360001	2.73611	0.333738	HZ	LOC100526781;V15
3.06908	0.444068	GY	LOC100526781;LO	NC_056064.1	41305001	41325001	3.88411	0.330879	HZ	LOC100526782
3.00298	0.324284	GY	LOC100526781;V1	NC_056064.1	41310001	41330001	3.94452	0.337341	HZ	LOC100526782
3.87692	0.328578	GY	LOC100526782	NC_056064.1	41315001	41335001	3.55251	0.300217	HZ	LOC100526782
3.93495	0.385858	GY	LOC100526782	NC_056057.1	89875001	89895001	3.35017	0.208816	HZ	LOC101101889
3.34633	0.405005	GY	LOC100526782	NC_056057.1	41685001	41705001	17.4246	0.208947	HZ	LOC101102230
2.50626	0.522089	GY	LOC101102366;ZS	NC_056057.1	41690001	41710001	15.2895	0.235949	HZ	LOC101102230
3.54746	0.585014	GY	LOC101102366;ZS	NC_056077.1	37230001	37250001	6.38631	0.257695	HZ	LOC101102366;ZSC/
11.3459	0.583606	GY	LOC101102366;ZS	NC_056077.1	37235001	37255001	16.6415	0.289017	HZ	LOC101102366;ZSC/
3.41366	0.274944	GY	LOC101102680;ME	NC_056074.1	8630001	8650001	4.29857	0.223586	HZ	LOC101102680;ME3
3.24972	0.287913	GY	LOC101102680;ME	NC_056074.1	8635001	8655001	3.23438	0.238542	HZ	LOC101102680;ME3
3.94668	0.272081	GY	LOC101102680;ME	NC_056074.1	8640001	8660001	3.9083	0.237933	HZ	LOC101102680;ME3
6.92306	0.241619	GY	LOC101104028	NW_024599828	1195001	1215001	2.35374	0.211071	HZ	LOC101103023;LOC1
2.57827	0.250569	GY	LOC101104438	NW_024599828	1200001	1220001	2.42212	0.20705	HZ	LOC101103023;LOC1
2.70206	0.248517	GY	LOC101104438	NW_024599828	1210001	1230001	2.46726	0.214602	HZ	LOC101103023;LOC1
2.5055	0.242991	GY	LOC101104438	NW_024599828	1190001	1210001	2.57914	0.233286	HZ	LOC101103023;PAG3
2.5657	0.2505	GY	LOC101104438	NW_024599828	1215001	1235001	2.53261	0.211627	HZ	LOC101103278;PAG3
3.15936	0.259988	GY	LOC101104438	NW_024599828	1235001	1255001	4.20269	0.211475	HZ	LOC101103278;PAG3
3.14634	0.287214	GY	LOC101104438	NW_024599828	1245001	1265001	5.98278	0.210254	HZ	LOC101103278;PAG3
3.44287	0.406207	GY	LOC101104488	NC_056054.1	181375001	181395001	7.30769	0.367889	HZ	LOC101104028
4.33204	0.458072	GY	LOC101104488	NC_056054.1	181380001	181400001	3.43999	0.267324	HZ	LOC101104028
2.50289	0.265326	GY	LOC101104613	NC_056077.1	4705001	4725001	3.31014	0.229904	HZ	LOC101105047
2.70377	0.340824	GY	LOC101104613	NC_056077.1	4710001	4730001	3.29071	0.222367	HZ	LOC101105047
2.41031	0.398212	GY	LOC101104613	NC_056077.1	4715001	4735001	3.19069	0.256299	HZ	LOC101105047
2.66567	0.201486	GY	LOC101104974	NC_056076.1	37920001	37940001	10.7143	0.241769	HZ	LOC101105123
2.47644	0.215339	GY	LOC101104974	NC_056080.1	19350001	19370001	12.6063	0.240533	HZ	LOC101105138
2.41807	0.240128	GY	LOC101104974	NC_056074.1	35405001	35425001	15.2117	0.231664	HZ	LOC101105540
3.5264	0.206068	GY	LOC101105047	NC_056074.1	35425001	35445001	23.1765	0.261381	HZ	LOC101105540
3.53358	0.198513	GY	LOC101105047	NC_056074.1	35430001	35450001	26.2745	0.279573	HZ	LOC101105540
3.18206	0.231052	GY	LOC101105047	NC_056074.1	35495001	35515001	2.71663	0.204844	HZ	LOC101105788
2.66666	0.237731	GY	LOC101105135	NC_056074.1	35615001	35635001	6.38745	0.226586	HZ	LOC101106045
12.1302	0.230931	GY	LOC101105138	NC_056074.1	35620001	35640001	20.302	0.289547	HZ	LOC101106045
8.41986	0.206347	GY	LOC101105265	NC_056072.1	58985001	59005001	2.67253	0.215609	HZ	LOC101106550
2.44947	0.21942	GY	LOC101105495	NC_056072.1	58990001	59010001	4.29784	0.31	HZ	LOC101106550
2.9504	0.247706	GY	LOC101105495	NC_056072.1	58995001	59015001	4.12367	0.299542	HZ	LOC101106550
2.70691	0.230106	GY	LOC101105495	NC_056074.1	36425001	36445001	3.87856	0.275822	HZ	LOC101106637;TME
2.42397	0.214058	GY	LOC101105495	NC_056075.1	15885001	15905001	3.73319	0.21409	HZ	LOC101106641
5.44139	0.240009	GY	LOC101105523	NC_056080.1	64030001	64050001	7.84434	0.421755	HZ	LOC101106743
10.2864	0.307127	GY	LOC101105523	NC_056080.1	64035001	64055001	5.86727	0.37465	HZ	LOC101106743
14.6997	0.314994	GY	LOC101105523;PD	NC_056072.1	55745001	55765001	2.55571	0.40989	HZ	LOC101106751
14.6348	0.281843	GY	LOC101105523;PD	NC_056072.1	55750001	55770001	2.375	0.3955	HZ	LOC101106751
4.15416	0.21021	GY	LOC101105523;PD	NC_056072.1	55755001	55775001	2.47895	0.363794	HZ	LOC101106751
14.4941	0.268011	GY	LOC101105540	NC_056063.1	70640001	70660001	2.5866	0.236459	HZ	LOC101106781
20.9818	0.347316	GY	LOC101105540	NC_056063.1	70645001	70665001	4.96508	0.330291	HZ	LOC101106781
23.3447	0.357768	GY	LOC101105540	NC_056063.1	70650001	70670001	4.5649	0.320293	HZ	LOC101106781
2.54785	0.243104	GY	LOC101105788	NC_056063.1	70655001	70675001	3.46993	0.300487	HZ	LOC101106781
2.47656	0.233562	GY	LOC101105788	NC_056068.1	53620001	53640001	6.28178	0.211292	HZ	LOC101107135;LOC1
2.53412	0.22159	GY	LOC101105788	NC_056055.1	52570001	52590001	7.55922	0.210971	HZ	LOC101108371;LOC1
2.63564	0.197689	GY	LOC101105788;LO	NC_056055.1	52575001	52595001	4.02465	0.227247	HZ	LOC101108371;LOC1
2.56709	0.238706	GY	LOC101105788;LO	NC_056068.1	48385001	48405001	2.76412	0.317421	HZ	LOC101108775
19.8437	0.198141	GY	LOC101106045	NC_056068.1	48390001	48410001	3.11592	0.329237	HZ	LOC101108775

3.73263	0.225427	GY	LOC101106637;TM	NC_056054.1	108005001	108025001	3.59101	0.297804	HZ	LOC101108789
9.29247	0.267136	GY	LOC101106743	NC_056068.1	48400001	48420001	12.5985	0.312655	HZ	LOC101109299
7.56197	0.253389	GY	LOC101106743	NC_056068.1	48405001	48425001	15.5192	0.313131	HZ	LOC101109299
6.15055	0.218213	GY	LOC101108113	NC_056068.1	48420001	48440001	6.47962	0.467793	HZ	LOC101109827;LOC1
3.18454	0.344622	GY	LOC101108787	NC_056068.1	48425001	48445001	2.99138	0.39073	HZ	LOC101109827;LOC1
18.411	0.238231	GY	LOC101109717	NC_056068.1	48430001	48450001	2.64436	0.374371	HZ	LOC101109827;LOC1
9.91529	0.193757	GY	LOC101109717	NC_056054.1	199415001	199435001	2.45589	0.352043	HZ	LOC101110107
2.88319	0.229715	GY	LOC101110107	NC_056054.1	199420001	199440001	2.40898	0.333308	HZ	LOC101110107
11.7108	0.244232	GY	LOC101110189	NC_056054.1	199425001	199445001	2.49811	0.318547	HZ	LOC101110107
4.75748	0.193564	GY	LOC101110189;NE	NC_056058.1	39535001	39555001	2.47359	0.263105	HZ	LOC101110587
6.2381	0.260827	GY	LOC101110189;NE	NC_056059.1	72910001	72930001	4.56645	0.212997	HZ	LOC101110593
4.57154	0.270131	GY	LOC101110373	NC_056059.1	72915001	72935001	4.1741	0.225357	HZ	LOC101110593
3.62992	0.20338	GY	LOC101110373	NC_056059.1	72920001	72940001	2.75879	0.207927	HZ	LOC101110593
4.1509	0.255315	GY	LOC101110939	NC_056059.1	73035001	73055001	2.86098	0.216236	HZ	LOC101111099
2.58659	0.226753	GY	LOC101110939	NC_056059.1	73040001	73060001	2.9341	0.241925	HZ	LOC101111099
4.34102	0.26725	GY	LOC101110939	NC_056059.1	73045001	73065001	4.56831	0.237576	HZ	LOC101111099
4.10611	0.262605	GY	LOC101110939	NC_056059.1	73050001	73070001	4.87847	0.212704	HZ	LOC101111099
4.61732	0.299652	GY	LOC101110939	NC_056077.1	28910001	28930001	2.6919	0.244141	HZ	LOC101111335
3.68884	0.230916	GY	LOC101110939	NC_056077.1	28915001	28935001	3.57481	0.280801	HZ	LOC101111335
3.26591	0.198863	GY	LOC101111060	NC_056077.1	28920001	28940001	3.80026	0.321469	HZ	LOC101111335
2.8082	0.217467	GY	LOC101111300	NC_056077.1	28925001	28945001	2.72609	0.299161	HZ	LOC101111335
2.51358	0.278344	GY	LOC101111335	NC_056058.1	65970001	65990001	3.35218	0.242845	HZ	LOC101111631
2.50143	0.289239	GY	LOC101111486	NC_056059.1	73080001	73100001	5.5	0.21557	HZ	LOC101111633;LOC1
2.72354	0.303933	GY	LOC101111631	NC_056059.1	73085001	73105001	6.49511	0.217954	HZ	LOC101111633;LOC1
3.34384	0.290521	GY	LOC101111631	NC_056059.1	73090001	73110001	4.02547	0.219966	HZ	LOC101111633;LOC1
5.86364	0.247538	GY	LOC101112284	NC_056059.1	73095001	73115001	3.14668	0.229999	HZ	LOC101111633;LOC1
8.37816	0.257639	GY	LOC101112284	NC_056068.1	81345001	81365001	5.01613	0.449411	HZ	LOC101112419
5.88307	0.363755	GY	LOC101112419	NC_056068.1	81350001	81370001	8.63864	0.553498	HZ	LOC101112419
11.8739	0.331333	GY	LOC101112419	NC_056068.1	81360001	81380001	3.74228	0.435955	HZ	LOC101112419
4.18216	0.415062	GY	LOC101113004;LO	NC_056068.1	81365001	81385001	2.84622	0.434692	HZ	LOC101112419
2.68865	0.234334	GY	LOC101113495;NL	NC_056077.1	26525001	26545001	3.70271	0.316759	HZ	LOC101112694
2.40899	0.196861	GY	LOC101113495;NL	NC_056077.1	26530001	26550001	5.6	0.322708	HZ	LOC101112694
3.78096	0.307621	GY	LOC101113819	NC_056077.1	26535001	26555001	9.1739	0.352912	HZ	LOC101112694
2.68922	0.265135	GY	LOC101113819	NC_056077.1	33190001	33210001	2.64791	0.270234	HZ	LOC101112784
3.0647	0.31266	GY	LOC101113819	NC_056077.1	33195001	33215001	3.24637	0.25616	HZ	LOC101112784
2.66618	0.219163	GY	LOC101114082	NC_056077.1	33200001	33220001	3.40443	0.251898	HZ	LOC101112784
3.45068	0.251008	GY	LOC101114082	NC_056077.1	33205001	33225001	3.96167	0.207508	HZ	LOC101112784;NCF1
4.1646	0.283784	GY	LOC101114082	NC_056056.1	80175001	80195001	3.51766	0.218188	HZ	LOC101112892
6.69109	0.311692	GY	LOC101114082	NC_056058.1	38450001	38470001	2.53753	0.245829	HZ	LOC101113495;NLR1
9.86101	0.285231	GY	LOC101114082	NC_056077.1	19640001	19660001	3.34285	0.306622	HZ	LOC101113819
9.95539	0.281593	GY	LOC101114082;LO	NC_056077.1	19650001	19670001	2.70001	0.316231	HZ	LOC101113819
2.4232	0.197627	GY	LOC101114319;TT	NC_056078.1	40950001	40970001	4.39604	0.217571	HZ	LOC101114082
5.25263	0.206606	GY	LOC101114456	NC_056078.1	40955001	40975001	8.84407	0.271023	HZ	LOC101114082
2.44759	0.343815	GY	LOC101114528;ZN	NC_056078.1	40960001	40980001	8.8067	0.26845	HZ	LOC101114082;LOC1
2.44536	0.257111	GY	LOC101115252;RH	NC_056061.1	50075001	50095001	2.84275	0.254034	HZ	LOC101114528;ZNF2
20.6774	0.229651	GY	LOC101115276	NC_056068.1	24915001	24935001	2.62997	0.228534	HZ	LOC101115226
24.4559	0.21061	GY	LOC101115276	NC_056077.1	34570001	34590001	2.66191	0.206676	HZ	LOC101115252;RHB1
2.85788	0.524613	GY	LOC101115398	NC_056058.1	9015001	9035001	26.4903	0.236763	HZ	LOC101115276
27.4066	0.213061	GY	LOC101115538	NC_056058.1	9020001	9040001	32.8236	0.252377	HZ	LOC101115276
26.0211	0.241394	GY	LOC101115538	NC_056058.1	9025001	9045001	38.4358	0.272312	HZ	LOC101115276;LOC1
24.2581	0.264638	GY	LOC101115538	NC_056058.1	9030001	9050001	28.654	0.307722	HZ	LOC101115276;LOC1
4.77038	0.235899	GY	LOC101115593;SM	NC_056067.1	62115001	62135001	3.08733	0.603165	HZ	LOC101115398
5.32087	0.241482	GY	LOC101115593;SM	NC_056058.1	9035001	9055001	33.113	0.329149	HZ	LOC101115538
4.95973	0.252819	GY	LOC101115593;SM	NC_056058.1	9040001	9060001	29.4159	0.337505	HZ	LOC101115538
15.9001	0.236923	GY	LOC101115943	NC_056058.1	9045001	9065001	24.8755	0.309904	HZ	LOC101115538
11.4597	0.21402	GY	LOC101115943	NC_056058.1	9070001	9090001	30.0655	0.257784	HZ	LOC101116053
10.9401	0.241854	GY	LOC101115943	NC_056058.1	9075001	9095001	30.0315	0.296964	HZ	LOC101116053
10.8215	0.222981	GY	LOC101115943	NC_056058.1	9080001	9100001	24.7791	0.297401	HZ	LOC101116053
28.1318	0.238517	GY	LOC101116053	NC_056071.1	24550001	24570001	11.7046	0.223409	HZ	LOC101116178
28.8811	0.267061	GY	LOC101116053	NC_056071.1	24565001	24585001	10.7588	0.258833	HZ	LOC101116178
24.4616	0.301039	GY	LOC101116053	NC_056065.1	55570001	55590001	2.70927	0.215311	HZ	LOC101116245;LOC1
18.2787	0.193702	GY	LOC101116178	NC_056059.1	8845001	8865001	2.50326	0.271174	HZ	LOC101116481
20.5263	0.194188	GY	LOC101116178	NC_056059.1	8850001	8870001	3.74353	0.286975	HZ	LOC101116481
2.87754	0.273815	GY	LOC101116245	NC_056059.1	8855001	8875001	3.90957	0.265784	HZ	LOC101116481
4.05289	0.242976	GY	LOC101116245;RA	NC_056059.1	8860001	8880001	2.60413	0.212348	HZ	LOC101116481
3.42195	0.21195	GY	LOC101116245;RA	NC_056080.1	68920001	68940001	5.10569	0.26737	HZ	LOC101116886;MAG
3.17144	0.232901	GY	LOC101116245;RA	NC_056080.1	68925001	68945001	5.24463	0.230969	HZ	LOC101116886;MAG
2.6628	0.33258	GY	LOC101116481	NC_056073.1	20610001	20630001	5.6154	0.334172	HZ	LOC101117542
3.8099	0.343	GY	LOC101116481	NC_056074.1	37945001	37965001	3.38011	0.21717	HZ	LOC101118064
4.15072	0.273662	GY	LOC101116481	NC_056080.1	2750001	2770001	2.81688	0.273851	HZ	LOC101118336
2.62035	0.199803	GY	LOC101116574	NC_056080.1	2755001	2775001	8.65163	0.351753	HZ	LOC101118336
2.49485	0.198469	GY	LOC101116574	NC_056080.1	2760001	2780001	6.3297	0.311175	HZ	LOC101118336
2.58434	0.19791	GY	LOC101116574	NC_056080.1	2765001	2785001	3.38072	0.249006	HZ	LOC101118336
3.30198	0.192857	GY	LOC101117077;TR	NC_056080.1	2770001	2790001	2.7865	0.21139	HZ	LOC101118336

2.60496	0.237591	GY	LOC101117098;ST	NC_056080.1	2780001	2800001	3.96741	0.217388	HZ	LOC101118336
2.67308	0.243843	GY	LOC101117240	NC_056080.1	2785001	2805001	12.6651	0.271123	HZ	LOC101118336
3.2075	0.274248	GY	LOC101117240	NC_056080.1	2790001	2810001	9.74514	0.243218	HZ	LOC101118336
2.99615	0.273348	GY	LOC101117240	NC_056080.1	2795001	2815001	5.28393	0.230312	HZ	LOC101118336
3.02772	0.276285	GY	LOC101117547	NC_056080.1	2800001	2820001	6.61106	0.209387	HZ	LOC101118336
2.61588	0.257508	GY	LOC101117547	NC_056058.1	6715001	6735001	3.47276	0.214338	HZ	LOC101118444
4.55744	0.246951	GY	LOC101117749	NC_056055.1	230080001	230100001	8.13184	0.207492	HZ	LOC101118932
6.30123	0.208738	GY	LOC101117749	NC_056055.1	230085001	230105001	4.68101	0.211888	HZ	LOC101118932
4.58195	0.191728	GY	LOC101117749	NC_056074.1	38170001	38190001	2.97491	0.234723	HZ	LOC101119087
3.32378	0.283212	GY	LOC101117749;MT	NC_056056.1	44930001	44950001	4.53334	0.253095	HZ	LOC101119202
2.47855	0.303949	GY	LOC101117804	NC_056056.1	44935001	44955001	6.37454	0.259359	HZ	LOC101119202
2.97341	0.308684	GY	LOC101117804	NC_056056.1	44940001	44960001	5.28663	0.237367	HZ	LOC101119202
14.6539	0.283276	GY	LOC101117804	NC_056056.1	44945001	44965001	6.58875	0.240426	HZ	LOC101119202
16.9606	0.256718	GY	LOC101117804	NC_056056.1	44950001	44970001	5.99042	0.226382	HZ	LOC101119202
2.89419	0.201033	GY	LOC101117846	NC_056062.1	14585001	14605001	5.26764	0.470424	HZ	LOC101119226
2.77266	0.210797	GY	LOC101117846	NC_056062.1	14590001	14610001	9.84397	0.503192	HZ	LOC101119226
3.19194	0.223028	GY	LOC101117846	NC_056062.1	14580001	14600001	3.16839	0.399413	HZ	LOC101119226;LY6I
3.43363	0.2321	GY	LOC101117846	NC_056062.1	14595001	14615001	4.96583	0.422499	HZ	LOC101119226;LYPI
3.69925	0.23512	GY	LOC101117846	NC_056075.1	20675001	20695001	3.54595	0.278846	HZ	LOC101120033
4.28015	0.244425	GY	LOC101117846	NC_056075.1	20680001	20700001	11.5605	0.296537	HZ	LOC101120033
4.18571	0.234077	GY	LOC101117846	NC_056075.1	20685001	20705001	14.0567	0.301656	HZ	LOC101120033
3.29837	0.20817	GY	LOC101117846	NC_056075.1	20700001	20720001	7.90624	0.288095	HZ	LOC101120033
8.12942	0.341199	GY	LOC101118164	NC_056075.1	20705001	20725001	4.57323	0.263159	HZ	LOC101120033
11.7846	0.330709	GY	LOC101118164	NC_056055.1	224825001	224845001	2.53958	0.20581	HZ	LOC101120221;MOG
3.38773	0.241306	GY	LOC101118164	NC_056071.1	19420001	19440001	3.97611	0.32557	HZ	LOC101120360
15.9773	0.300194	GY	LOC101118248	NC_056071.1	19425001	19445001	6.65341	0.398216	HZ	LOC101120360;LOC1
10.3205	0.275317	GY	LOC101118248	NC_056071.1	19430001	19450001	12.1554	0.43666	HZ	LOC101120360;LOC1
5.14034	0.210028	GY	LOC101118248	NC_056071.1	19435001	19455001	3.5396	0.337774	HZ	LOC101120360;LOC1
2.706	0.342222	GY	LOC101118336	NC_056071.1	19440001	19460001	2.4663	0.272652	HZ	LOC101120610
7.98711	0.453044	GY	LOC101118336	NC_056056.1	194505001	194525001	2.43628	0.273418	HZ	LOC101120653
6.08447	0.387671	GY	LOC101118336	NC_056056.1	194510001	194530001	2.56071	0.29376	HZ	LOC101120653
3.43883	0.301819	GY	LOC101118336	NC_056056.1	194515001	194535001	3.72821	0.268003	HZ	LOC101120653
3.02066	0.22395	GY	LOC101118336	NC_056066.1	36550001	36570001	5.0589	0.207843	HZ	LOC101120769
10.6875	0.231536	GY	LOC101118336	NC_056068.1	53695001	53715001	11.5382	0.275425	HZ	LOC101120816
7.48086	0.20851	GY	LOC101118336	NC_056068.1	53700001	53720001	9.16667	0.243701	HZ	LOC101120816
8.1219	0.242695	GY	LOC101118932	NC_056068.1	53710001	53730001	6.53571	0.229104	HZ	LOC101120816
5.01612	0.201894	GY	LOC101118932	NC_056068.1	53715001	53735001	8.18946	0.233052	HZ	LOC101120816
3.49546	0.204982	GY	LOC101118932	NC_056068.1	53720001	53740001	8.03879	0.258905	HZ	LOC101120816
2.72544	0.200443	GY	LOC101118932	NC_056068.1	53725001	53745001	7.86921	0.256818	HZ	LOC101120816;LOC1
6.496	0.216093	GY	LOC101119226	NC_056068.1	53730001	53750001	8.89674	0.218754	HZ	LOC101120816;LOC1
10.6598	0.257679	GY	LOC101119226	NC_056080.1	133425001	133445001	2.71597	0.235448	HZ	LOC101120992
5.34892	0.217209	GY	LOC101119226;LY	NC_056080.1	133430001	133450001	2.68622	0.2299	HZ	LOC101120992
3.52597	0.347874	GY	LOC101119283	NC_056054.1	239620001	239640001	3.33138	0.236931	HZ	LOC101121993
14.2435	0.325239	GY	LOC101119283	NC_056054.1	239625001	239645001	2.66483	0.247357	HZ	LOC101121993
2.63296	0.213805	GY	LOC101119538	NC_056064.1	6100001	6120001	2.4044	0.3616	HZ	LOC101122120
2.46954	0.222719	GY	LOC101119538;LO	NC_056064.1	6105001	6125001	2.39787	0.28201	HZ	LOC101122120
2.69062	0.358065	GY	LOC101120221;MC	NC_056064.1	6110001	6130001	3.48206	0.216116	HZ	LOC101122120
3.1773	0.261585	GY	LOC101120329;SE	NC_056058.1	49630001	49650001	2.9963	0.242665	HZ	LOC101122274;LOC1
3.977	0.203709	GY	LOC101120769	NC_056072.1	52230001	52250001	2.40666	0.210209	HZ	LOC101122312
4.21239	0.192748	GY	LOC101120769	NC_056059.1	25635001	25655001	12.0033	0.238619	HZ	LOC101122865
7.94828	0.212813	GY	LOC101120816	NC_056059.1	25640001	25660001	12.0189	0.308143	HZ	LOC101122865
7.79747	0.210026	GY	LOC101120816;LO	NC_056059.1	25645001	25665001	9.53848	0.299083	HZ	LOC101122865
8.64133	0.192286	GY	LOC101120816;LO	NC_056059.1	25650001	25670001	7.67723	0.273277	HZ	LOC101122865
3.7299	0.230709	GY	LOC101121198	NC_056072.1	43495001	43515001	3.11243	0.233711	HZ	LOC101123588
2.60772	0.208948	GY	LOC101121198	NC_056072.1	43500001	43520001	4.58823	0.281778	HZ	LOC101123588
3.20253	0.209822	GY	LOC101121198;LO	NC_056072.1	43505001	43525001	4.32746	0.294745	HZ	LOC101123588
6.73771	0.20091	GY	LOC101121557;NE	NC_056072.1	43510001	43530001	5.44132	0.321889	HZ	LOC101123588
3.87676	0.19502	GY	LOC101121557;NE	NC_056072.1	43515001	43535001	4.96808	0.329964	HZ	LOC101123588
5.13904	0.293544	GY	LOC101121837	NC_056072.1	43520001	43540001	4.4738	0.319863	HZ	LOC101123588
3	0.231062	GY	LOC101121837	NC_056072.1	43525001	43545001	6.44	0.337037	HZ	LOC101123588
3.65829	0.25154	GY	LOC101121837	NC_056072.1	43530001	43550001	7.63218	0.336885	HZ	LOC101123588
3.21922	0.242543	GY	LOC101121837;LO	NC_056072.1	43535001	43555001	6.82547	0.329882	HZ	LOC101123588
3.30367	0.253644	GY	LOC101121837;LO	NC_056072.1	43540001	43560001	7.15172	0.308426	HZ	LOC101123588
3.10322	0.290214	GY	LOC101121837;LO	NC_056072.1	43545001	43565001	9.29085	0.255134	HZ	LOC101123588
4.04762	0.216821	GY	LOC101121892	NC_056072.1	43550001	43570001	6.25	0.214477	HZ	LOC101123588
2.43347	0.362715	GY	LOC101121938	NC_056055.1	46855001	46875001	2.71052	0.25169	HZ	LOC101123612
2.58866	0.209006	GY	LOC101121986	NC_056055.1	46860001	46880001	3	0.25787	HZ	LOC101123612
3.37351	0.287392	GY	LOC101121986	NC_056055.1	46865001	46885001	3.20859	0.242852	HZ	LOC101123612
2.9593	0.407763	GY	LOC101121993	NC_056054.1	247050001	247070001	5.43694	0.254318	HZ	LOC105601893;PLS1
2.51099	0.358545	GY	LOC101121993	NC_056067.1	57615001	57635001	3.3064	0.204784	HZ	LOC105601981;ZNF1
2.62014	0.408506	GY	LOC101122120	NC_056078.1	40965001	40985001	6.76224	0.249937	HZ	LOC105605095
3.00527	0.323305	GY	LOC101122120	NC_056073.1	25960001	25980001	5.99085	0.293397	HZ	LOC105605990
2.63839	0.234431	GY	LOC101122120	NC_056073.1	25965001	25985001	6.67845	0.28447	HZ	LOC105605990
2.48645	0.299767	GY	LOC101123029	NC_056073.1	25970001	25990001	11.3051	0.373498	HZ	LOC105605990

14.1024	0.202435	GY	LOC101123341	NC_056073.1	25975001	25995001	11.7532	0.384924	HZ	LOC105605990
5.61712	0.241898	GY	LOC105601893;PL	NC_056073.1	25980001	26000001	12.2863	0.388629	HZ	LOC105605990
7.52797	0.226572	GY	LOC105605095	NC_056073.1	25985001	26005001	12.9229	0.431719	HZ	LOC105605990
8.50556	0.240044	GY	LOC105605780	NC_056058.1	13685001	13705001	2.58742	0.362536	HZ	LOC105609437
9.07778	0.232837	GY	LOC105605780	NC_056080.1	86120001	86140001	3.24406	0.212469	HZ	LOC105614134
7.65847	0.195736	GY	LOC105605780	NC_056056.1	176775001	176795001	2.51429	0.291968	HZ	LOC105614892;SYN:
10.3346	0.1932	GY	LOC105605990	NC_056056.1	176780001	176800001	5.7684	0.377487	HZ	LOC105614892;SYN:
11.1486	0.215826	GY	LOC105605990	NC_056056.1	176785001	176805001	6.37132	0.354023	HZ	LOC105614892;SYN:
12.311	0.227657	GY	LOC105605990	NC_056057.1	6975001	6995001	20.5074	0.292159	HZ	LOC105614936
3.23365	0.313691	GY	LOC105608906	NC_056077.1	14170001	14190001	2.81887	0.235701	HZ	LOC114110664
2.88145	0.317271	GY	LOC105608906	NC_056077.1	14175001	14195001	6.26345	0.280222	HZ	LOC114110664;RRN:
2.45885	0.219495	GY	LOC105612510;MC	NC_056080.1	79045001	79065001	3.52246	0.361565	HZ	LOC114111496
20.0735	0.302381	GY	LOC105614936	NC_056080.1	79050001	79070001	2.66721	0.317769	HZ	LOC114111496
3.46407	0.430281	GY	LOC105616630	NC_056080.1	79055001	79075001	2.47073	0.274372	HZ	LOC114111496
2.49401	0.343908	GY	LOC106991972	NC_056055.1	111030001	111050001	6.73486	0.28447	HZ	LOC114113035
2.90264	0.215721	GY	LOC114110090	NC_056055.1	111035001	111055001	3.81406	0.262038	HZ	LOC114113035
3.50864	0.264046	GY	LOC114110167	NC_056055.1	111040001	111060001	3.19598	0.211007	HZ	LOC114113035
2.94133	0.245355	GY	LOC114110664	NC_056055.1	111045001	111065001	2.69853	0.211875	HZ	LOC114113035
6.36021	0.290831	GY	LOC114110664;RR	NC_056056.1	92190001	92210001	2.66771	0.280315	HZ	LOC114113944
4.38878	0.415848	GY	LOC114111496	NC_056058.1	9010001	9030001	33.6201	0.218372	HZ	LOC114114788
2.99143	0.408725	GY	LOC114111496	NC_056058.1	42035001	42055001	2.69016	0.220099	HZ	LOC114115009
2.51507	0.392943	GY	LOC114111496	NC_056058.1	42040001	42060001	3.05454	0.246855	HZ	LOC114115009
2.46753	0.193924	GY	LOC114111618	NC_056059.1	73100001	73120001	2.56204	0.229278	HZ	LOC114115373;POLF
7.14121	0.279952	GY	LOC114113035	NC_056060.1	64670001	64690001	2.49274	0.207482	HZ	LOC114115867
3.97069	0.27762	GY	LOC114113035	NC_056060.1	84305001	84325001	3.00545	0.213345	HZ	LOC114115884
3.17438	0.271073	GY	LOC114113035	NC_056064.1	23965001	23985001	3.09867	0.209725	HZ	LOC114116984
2.52151	0.302739	GY	LOC114113035	NC_056065.1	42625001	42645001	4.44405	0.252567	HZ	LOC114117226;UBE-
7.18869	0.300992	GY	LOC114114788	NC_056065.1	43970001	43990001	2.72618	0.223536	HZ	LOC114117228;RERI
25.75	0.252657	GY	LOC114114788	NC_056065.1	55575001	55595001	3.21053	0.241474	HZ	LOC114117245;MRP
2.79522	0.217311	GY	LOC114115302;LO	NC_056067.1	62480001	62500001	5.51265	0.348877	HZ	LOC114117836
2.80427	0.244217	GY	LOC114115304;PD	NC_056068.1	82115001	82135001	2.80291	0.271222	HZ	LOC114118341
3.32082	0.265403	GY	LOC114115304;PD	NC_056068.1	82120001	82140001	4.07517	0.369635	HZ	LOC114118341
3.36432	0.260565	GY	LOC114115304;PD	NC_056068.1	82125001	82145001	4.54268	0.391192	HZ	LOC114118341
21.0902	0.226176	GY	LOC114117249	NC_056068.1	82130001	82150001	4.12427	0.35164	HZ	LOC114118341
23.528	0.23795	GY	LOC114117249	NC_056068.1	82135001	82155001	3.67065	0.271673	HZ	LOC114118341
16.7281	0.197605	GY	LOC114117249	NW_024599828	1415001	1435001	15.6032	0.206579	HZ	LOC121816021
3.65092	0.266099	GY	LOC114118001	NW_024599828	1440001	1460001	10.5471	0.217771	HZ	LOC121816021
2.6527	0.27524	GY	LOC114118245	NC_056074.1	35115001	35135001	3.33251	0.221101	HZ	LOC121816022
3.85948	0.313815	GY	LOC114118341	NC_056074.1	35150001	35170001	2.47578	0.271044	HZ	LOC121816022
4.4878	0.378849	GY	LOC114118341	NC_056065.1	78425001	78445001	8.67521	0.302621	HZ	LOC121816068
4.54913	0.406048	GY	LOC114118341	NC_056065.1	78430001	78450001	5.63876	0.236831	HZ	LOC121816068
4.78311	0.384982	GY	LOC114118341	NC_056054.1	730001	750001	2.47641	0.213689	HZ	LOC121817700;SNEI
3.70759	0.337054	GY	LOC114118341	NC_056080.1	131460001	131480001	5.88279	0.395317	HZ	LOC121818354
3.11312	0.272102	GY	LOC114118341	NC_056080.1	131465001	131485001	2.49053	0.381637	HZ	LOC121818354
3.36887	0.271887	GY	LOC114118341	NC_056054.1	116410001	116430001	7.06609	0.262004	HZ	LOC121818668
3.32885	0.282639	GY	LOC114118341	NC_056054.1	116415001	116435001	10.3811	0.306778	HZ	LOC121818668
3.62641	0.300901	GY	LOC114118341	NC_056054.1	116420001	116440001	8.12417	0.267549	HZ	LOC121818668
14.5159	0.206968	GY	LOC121816021	NC_056054.1	116425001	116445001	3.13377	0.219663	HZ	LOC121818668
10.3518	0.220993	GY	LOC121816021	NC_056061.1	14945001	14965001	2.69713	0.252359	HZ	LOC121820153
2.43727	0.199169	GY	LOC121816022	NC_056061.1	14965001	14985001	7.5351	0.228552	HZ	LOC121820153
4.36595	0.203881	GY	LOC121816038	NC_056061.1	14970001	14990001	7.03244	0.330097	HZ	LOC121820153
4.61074	0.22863	GY	LOC121816038	NC_056061.1	14975001	14995001	4.31751	0.351182	HZ	LOC121820153
6.31584	0.507456	GY	LOC121816525	NC_056061.1	14980001	15000001	3.26985	0.356378	HZ	LOC121820153
8.54871	0.485554	GY	LOC121816525	NC_056065.1	12530001	12550001	2.96846	0.209917	HZ	LOC121820762
18.8789	0.476475	GY	LOC121816525	NC_056065.1	12535001	12555001	4.48449	0.277312	HZ	LOC121820762
20.9169	0.418763	GY	LOC121816525	NC_056070.1	7355001	7375001	2.51415	0.2113	HZ	LRBA
6.89449	0.329919	GY	LOC121816525	NC_056063.1	16870001	16890001	2.61799	0.358063	HZ	LRCH1
3.33962	0.205147	GY	LOC121816765;PL	NC_056063.1	16875001	16895001	2.64982	0.348809	HZ	LRCH1
4.31022	0.209645	GY	LOC121816765;PL	NC_056063.1	16880001	16900001	2.74776	0.339153	HZ	LRCH1
2.82711	0.220397	GY	LOC121818145	NC_056063.1	16885001	16905001	3.2069	0.328174	HZ	LRCH1
3.1118	0.207825	GY	LOC121818145	NC_056063.1	16890001	16910001	2.68606	0.273469	HZ	LRCH1
6.39194	0.253243	GY	LOC121818354	NC_056063.1	16895001	16915001	2.65827	0.260151	HZ	LRCH1
2.97895	0.247849	GY	LOC121818354	NC_056063.1	16900001	16920001	2.58255	0.239658	HZ	LRCH1
4.05699	0.274104	GY	LOC121818515	NC_056056.1	162410001	162430001	6.24223	0.335119	HZ	LRP1
2.70434	0.192526	GY	LOC121818515	NC_056056.1	162395001	162415001	2.83327	0.299605	HZ	LRP1;NXPH4
3.44073	0.43001	GY	LOC121818668	NC_056056.1	162400001	162420001	4.18656	0.403372	HZ	LRP1;NXPH4
4.29752	0.565956	GY	LOC121818668	NC_056055.1	168320001	168340001	3.3159	0.254491	HZ	LRP1B
6.0106	0.545043	GY	LOC121818668	NC_056055.1	168325001	168345001	3.56304	0.226265	HZ	LRP1B
5.53819	0.435341	GY	LOC121818668	NC_056055.1	168375001	168395001	2.42857	0.302458	HZ	LRP1B
2.4469	0.357085	GY	LOC121818668	NC_056079.1	38700001	38720001	2.93313	0.209778	HZ	LRR3B
2.6325	0.361907	GY	LOC121819170	NC_056062.1	86200001	86220001	3.40161	0.260061	HZ	LRR3C69
2.81586	0.33175	GY	LOC121819170	NC_056062.1	86205001	86225001	5.78304	0.326542	HZ	LRR3C69
2.87065	0.3173	GY	LOC121819170	NC_056062.1	86210001	86230001	8.53049	0.366554	HZ	LRR3C69
2.92032	0.271396	GY	LOC121819170	NC_056062.1	86215001	86235001	10.6462	0.369661	HZ	LRR3C69

2.64776	0.218026	GY	LOC121819170	NC_056062.1	86220001	86240001	6.49231	0.305998	HZ	LRRRC69;OTUD6B
3.9213	0.202071	GY	LOC121819791	NC_056062.1	86225001	86245001	5.36499	0.226043	HZ	LRRRC69;OTUD6B
3.21032	0.283392	GY	LOC121819792	NC_056056.1	90675001	90695001	3.65027	0.22606	HZ	LTBP1
2.50697	0.210493	GY	LOC121820153	NC_056056.1	90680001	90700001	4.22775	0.284034	HZ	LTBP1
2.4344	0.264959	GY	LOC121820153	NC_056056.1	90685001	90705001	3.25126	0.272415	HZ	LTBP1
2.93943	0.27572	GY	LOC121820153	NC_056062.1	14575001	14595001	2.43772	0.371743	HZ	LY6D
3.52018	0.249405	GY	LOC121820153	NC_056062.1	14600001	14620001	3.08953	0.36193	HZ	LYPD2;SLURP1
3.87062	0.224645	GY	LOC121820153	NC_056066.1	8350001	8370001	2.66667	0.217719	HZ	MACROD2
7.43864	0.193608	GY	LOC121820153	NC_056066.1	8355001	8375001	2.57347	0.25588	HZ	MACROD2
9.86955	0.194882	GY	LOC121820153	NC_056066.1	8360001	8380001	2.64579	0.257315	HZ	MACROD2
8.55966	0.207824	GY	LOC121820153	NC_056066.1	8365001	8385001	3.0101	0.316105	HZ	MACROD2
4.97281	0.238582	GY	LOC121820153	NC_056066.1	8370001	8390001	2.73736	0.296498	HZ	MACROD2
3.50578	0.27277	GY	LOC121820153	NC_056066.1	8375001	8395001	2.87824	0.267355	HZ	MACROD2
2.4344	0.198783	GY	LOC443456	NC_056066.1	8825001	8845001	3.62026	0.213939	HZ	MACROD2
2.53425	0.207687	GY	LOC443456	NC_056066.1	9650001	9670001	3.40733	0.286972	HZ	MACROD2
2.41114	0.200582	GY	LOC443456	NC_056066.1	9655001	9675001	6.00402	0.355729	HZ	MACROD2
2.45377	0.193946	GY	LRBA	NC_056066.1	9660001	9680001	4.22521	0.424758	HZ	MACROD2
2.48765	0.230785	GY	LRCH1	NC_056077.1	41575001	41595001	4.25514	0.206462	HZ	MAD1L1
2.81059	0.261438	GY	LRCH1	NC_056077.1	41580001	41600001	4.6016	0.233045	HZ	MAD1L1
3.7888	0.245507	GY	LRCH1	NC_056077.1	41785001	41805001	6.69444	0.366949	HZ	MAFK
3.93206	0.204349	GY	LRCH1	NC_056077.1	41765001	41785001	11.5937	0.357512	HZ	MAFK;PSMG3;TMEN
4.00446	0.198059	GY	LRCH1	NC_056057.1	44610001	44630001	2.39038	0.278441	HZ	MAGI2
4.45074	0.256312	GY	LRCH1	NC_056080.1	68895001	68915001	2.49686	0.253452	HZ	MAGT1
3.194	0.340651	GY	LRCH1	NC_056080.1	68900001	68920001	5.29861	0.310949	HZ	MAGT1
3.14331	0.343539	GY	LRCH1	NC_056080.1	68905001	68925001	5.26495	0.321646	HZ	MAGT1
2.86292	0.329034	GY	LRCH1	NC_056080.1	68915001	68935001	5.21052	0.278861	HZ	MAGT1
2.49674	0.224046	GY	LRCH1	NC_056055.1	241180001	241200001	3.26478	0.470687	HZ	MAN1C1
2.90126	0.195291	GY	LRIT3;RRH	NC_056055.1	118105001	118125001	6.69872	0.278857	HZ	MAP3K2
6.08073	0.354658	GY	LRP1	NC_056055.1	118110001	118130001	3.5498	0.240452	HZ	MAP3K2
2.71338	0.310679	GY	LRP1;NXPH4	NC_056061.1	84445001	84465001	3.18007	0.237847	HZ	MAP3K4
4.38657	0.383494	GY	LRP1;NXPH4	NC_056061.1	84450001	84470001	6.49138	0.225872	HZ	MAP3K4
2.64751	0.226376	GY	LRPPRC	NC_056056.1	99960001	99980001	3.8539	0.233559	HZ	MAP4K4
2.92147	0.206272	GY	LRPPRC	NC_056056.1	99965001	99985001	5.09842	0.256553	HZ	MAP4K4
3.49422	0.288826	GY	LRRRC49	NC_056056.1	99970001	99990001	5.33969	0.257346	HZ	MAP4K4
3.34354	0.295442	GY	LRRRC49	NC_056056.1	99975001	99995001	4.61886	0.237294	HZ	MAP4K4
3.48081	0.253152	GY	LRRFIP1	NC_056056.1	225555001	225575001	2.71604	0.294815	HZ	MAPK11;PLXNB2
3.63508	0.194366	GY	LRRFIP1;RBM44	NC_056076.1	50585001	50605001	7.88552	0.242192	HZ	MAPK4
2.71726	0.259245	GY	LUZP2	NC_056076.1	50590001	50610001	29.8592	0.240833	HZ	MAPK4
2.43095	0.235935	GY	LUZP2	NC_056078.1	34680001	34700001	24.6055	0.275889	HZ	MBLA;SFTPA1
2.49861	0.258385	GY	LVRN	NC_056078.1	34685001	34705001	22.1959	0.268065	HZ	MBLA;SFTPA1
2.71316	0.198966	GY	LYN	NC_056078.1	34690001	34710001	27.1199	0.234362	HZ	MBLA;SFTPA1
2.74526	0.275181	GY	LYPLA2;PITHD1	NC_056078.1	34670001	34690001	9.01026	0.224046	HZ	MBLA;SFTPD
2.39989	0.349928	GY	MAD1L1	NC_056078.1	34675001	34695001	22.9167	0.270333	HZ	MBLA;SFTPD
2.44533	0.2279	GY	MAD1L1	NC_056080.1	102470001	102490001	3.36001	0.230779	HZ	MBNL3
3.49054	0.284428	GY	MAD1L1	NC_056080.1	102490001	102510001	4.95213	0.218234	HZ	MBNL3
24.791	0.397919	GY	MAD1L1	NC_056073.1	36970001	36990001	6.59401	0.222158	HZ	MBOAT1
22.5204	0.395526	GY	MAD1L1	NC_056073.1	36975001	36995001	3.33806	0.23349	HZ	MBOAT1
19.6398	0.391335	GY	MAD1L1	NC_056059.1	37505001	37525001	20.1333	0.223377	HZ	MEPE
15.0502	0.378815	GY	MAD1L1	NC_056059.1	37510001	37530001	22.4898	0.22841	HZ	MEPE
6.85448	0.353387	GY	MAD1L1	NC_056057.1	53120001	53140001	3.62444	0.212239	HZ	MET
6.23572	0.351564	GY	MAD1L1	NC_056057.1	53125001	53145001	5.08064	0.208241	HZ	MET
4.80377	0.340958	GY	MAD1L1	NC_056076.1	37320001	37340001	11.7421	0.224839	HZ	METTTL4
5.82382	0.358514	GY	MAD1L1	NC_056076.1	37325001	37345001	12.8447	0.250745	HZ	METTTL4
8.03268	0.342577	GY	MAD1L1	NC_056076.1	37330001	37350001	9.52852	0.2765	HZ	METTTL4
4.82716	0.292262	GY	MAD1L1	NC_056076.1	37335001	37355001	9.86604	0.279252	HZ	METTTL4
5.59324	0.310768	GY	MAD1L1	NC_056076.1	37340001	37360001	5.80081	0.21582	HZ	METTTL4;NDC80
4.96295	0.318657	GY	MAD1L1	NC_056076.1	37345001	37365001	3.68921	0.211194	HZ	METTTL4;NDC80
4.91633	0.307285	GY	MAD1L1	NC_056076.1	37350001	37370001	4.69342	0.229701	HZ	METTTL4;NDC80
3.25318	0.202213	GY	MAGED1	NC_056076.1	37355001	37375001	4.36119	0.253132	HZ	METTTL4;NDC80
3.0612	0.203488	GY	MAGI2	NC_056056.1	122355001	122375001	2.6404	0.214154	HZ	MGAT4C
3.74433	0.246604	GY	MAGI2	NC_056056.1	122360001	122380001	2.41512	0.257448	HZ	MGAT4C
4.0735	0.252713	GY	MAGI2	NC_056056.1	123010001	123030001	5.02703	0.211947	HZ	MGAT4C
5.80642	0.354819	GY	MAOA	NC_056070.1	18095001	18115001	2.74543	0.547268	HZ	MGST2
2.63518	0.257278	GY	MAOA	NC_056076.1	34915001	34935001	2.97143	0.217036	HZ	MIB1
2.87306	0.312099	GY	MAP1LC3B	NC_056076.1	34920001	34940001	2.55701	0.280663	HZ	MIB1
3.4367	0.198152	GY	MAPK8	NC_056076.1	34925001	34945001	3.70748	0.289551	HZ	MIB1
2.56292	0.200789	GY	MAPT	NC_056076.1	34930001	34950001	4.03714	0.297777	HZ	MIB1
3.40336	0.249884	GY	MAPT	NC_056076.1	34935001	34955001	4.29114	0.276729	HZ	MIB1
5.02571	0.30255	GY	MAPT	NC_056076.1	34940001	34960001	4.33607	0.243981	HZ	MIB1
4.33423	0.364772	GY	MAPT	NC_056068.1	40160001	40180001	2.94679	0.207108	HZ	MICAL2
3.25503	0.270588	GY	MARK2	NC_056068.1	40165001	40185001	7.46683	0.241637	HZ	MICAL2
4.93751	0.299023	GY	MARK2	NC_056056.1	7400001	7420001	4.25518	0.363623	HZ	MIGA2;SH3GLB2
8.90833	0.302501	GY	MARK2	NC_056056.1	7405001	7425001	4.1087	0.281706	HZ	MIGA2;SH3GLB2
7.67161	0.267616	GY	MARK2;RCOR2	NC_056057.1	67025001	67045001	2.50301	0.305708	HZ	MINDY4

2.68339	0.319948	GY	MC1R;TCF25	NC_056057.1	67030001	67050001	2.52295	0.321496	HZ	MINDY4
2.85253	0.350583	GY	MC1R;TCF25	NC_056071.1	45260001	45280001	6.61267	0.225042	HZ	MIPOL1
3.05271	0.29131	GY	MED12L;P2RY13	NC_056071.1	45265001	45285001	6.25428	0.212567	HZ	MIPOL1
2.62186	0.222234	GY	MED4	NC_056071.1	45270001	45290001	4.60067	0.225662	HZ	MIPOL1
3.63024	0.24064	GY	MED4	NC_056056.1	225375001	225395001	8.66754	0.49727	HZ	MLC1
5.04347	0.265734	GY	MED7	NC_056056.1	22538001	22540001	8.91473	0.408957	HZ	MLC1;MOV10L1
4.82373	0.256381	GY	MED7	NC_056056.1	225385001	225405001	10.0121	0.259805	HZ	MLC1;MOV10L1
4.22073	0.241716	GY	MED7	NC_056056.1	225360001	225380001	26.4445	0.540417	HZ	MLC1;TTLL8
18.0683	0.202857	GY	MEPE	NC_056056.1	225365001	225385001	15.7431	0.594877	HZ	MLC1;TTLL8
2.50743	0.333488	GY	MET	NC_056056.1	225370001	225390001	9.5071	0.560145	HZ	MLC1;TTLL8
2.55492	0.334101	GY	MET	NC_056074.1	46400001	46420001	2.53594	0.221736	HZ	MOB2
2.5084	0.329481	GY	MET	NC_056074.1	46405001	46425001	3.99077	0.248008	HZ	MOB2
2.49469	0.360964	GY	MET	NC_056074.1	46410001	46430001	3.57031	0.232545	HZ	MOB2
3.22706	0.402515	GY	MET	NC_056074.1	46415001	46435001	3.45	0.250919	HZ	MOB2
5.11288	0.369223	GY	MET	NC_056074.1	46420001	46440001	3.05796	0.232135	HZ	MOB2
3.86265	0.232315	GY	MET	NC_056074.1	46425001	46445001	4.27704	0.26587	HZ	MOB2
3.84255	0.248843	GY	MET	NC_056077.1	690001	710001	6.18062	0.224528	HZ	MPG;NPRL3
3.77661	0.255355	GY	MET	NC_056077.1	695001	715001	11.1212	0.271314	HZ	MPG;NPRL3
2.47742	0.245272	GY	MET	NC_056056.1	62710001	62730001	2.49572	0.246759	HZ	MRPL19
2.68703	0.235549	GY	METTL15	NC_056063.1	22115001	22135001	13.1443	0.205024	HZ	MRPS31
2.90476	0.2205	GY	METTL15	NC_056063.1	22120001	22140001	12.4592	0.216016	HZ	MRPS31
3.06908	0.270785	GY	METTL25	NC_056063.1	22125001	22145001	12.0058	0.228803	HZ	MRPS31
4.71654	0.280874	GY	METTL25	NC_056056.1	217615001	217635001	3.24337	0.21746	HZ	MRTFA
4.31431	0.299799	GY	METTL25	NC_056056.1	217620001	217640001	8.78419	0.322705	HZ	MRTFA
2.96788	0.20256	GY	METTL25	NC_056056.1	217685001	217705001	5.57555	0.290317	HZ	MRTFA
4.65441	0.213736	GY	METTL25	NC_056074.1	34465001	34485001	3.01587	0.278467	HZ	MS4A15;MS4A18
4.39776	0.230602	GY	METTL25	NC_056074.1	34470001	34490001	3.95677	0.253557	HZ	MS4A15;MS4A18
4.03217	0.25747	GY	METTL25	NC_056074.1	34475001	34495001	4.16829	0.23379	HZ	MS4A15;MS4A18
2.58839	0.22427	GY	METTL25	NC_056074.1	34460001	34480001	2.37984	0.238473	HZ	MS4A18
4.28169	0.239683	GY	METTL4	NC_056070.1	62815001	62835001	3.29535	0.221825	HZ	MSII
7.12791	0.277625	GY	METTL4	NC_056076.1	41740001	41760001	2.39736	0.266705	HZ	MTCL1
10.671	0.287618	GY	METTL4	NC_056060.1	74610001	74630001	2.86586	0.349693	HZ	MTHFD1
12.7243	0.337947	GY	METTL4	NC_056060.1	74615001	74635001	4.51013	0.425948	HZ	MTHFD1
13.645	0.366724	GY	METTL4	NC_056060.1	74620001	74640001	2.72563	0.367001	HZ	MTHFD1
9.43998	0.392677	GY	METTL4	NC_056065.1	41650001	41670001	3.19791	0.29301	HZ	MTOR
8.44419	0.358438	GY	METTL4	NC_056065.1	41745001	41765001	2.41616	0.275325	HZ	MTOR
4.96615	0.253001	GY	METTL4;NDC80	NC_056065.1	41750001	41770001	2.66449	0.277562	HZ	MTOR
3.21727	0.233388	GY	METTL4;NDC80	NC_056065.1	41755001	41775001	3.41463	0.283201	HZ	MTOR
4.26392	0.244875	GY	METTL4;NDC80	NC_056065.1	41760001	41780001	3.60974	0.289557	HZ	MTOR
4.14548	0.283543	GY	METTL4;NDC80	NC_056058.1	11340001	11360001	11.793	0.23785	HZ	MUC16
6.74049	0.197493	GY	MFS6	NC_056058.1	11345001	11365001	28.2272	0.228199	HZ	MUC16
2.87363	0.454771	GY	MGST2	NC_056067.1	56305001	56325001	3.03201	0.258356	HZ	MYBPC2;POLD1;SPI
2.64554	0.394051	GY	MGST2	NC_056063.1	83290001	83310001	2.88075	0.220249	HZ	MYO16
2.50307	0.314236	GY	MICAL2	NC_056076.1	37735001	37755001	3.04625	0.262014	HZ	MYOM1
12.3416	0.27538	GY	MITD1	NC_056076.1	37740001	37760001	5.21931	0.280914	HZ	MYOM1
4.07982	0.233354	GY	MITD1;MRPL30	NC_056076.1	37745001	37765001	6.99797	0.291344	HZ	MYOM1
6.81311	0.258328	GY	MITD1;MRPL30	NC_056076.1	37750001	37770001	10.1626	0.261319	HZ	MYOM1
12.4026	0.191982	GY	MKNK2	NC_056059.1	6485001	6505001	2.42781	0.253068	HZ	MYOZ2
11.0794	0.203552	GY	MKNK2	NC_056059.1	6490001	6510001	2.39129	0.264427	HZ	MYOZ2
7.19966	0.546615	GY	MLC1	NC_056059.1	6500001	6520001	2.43313	0.247991	HZ	MYOZ2
8.3411	0.466698	GY	MLC1;MOV10L1	NC_056056.1	112085001	112105001	2.40719	0.272678	HZ	NAP1L1
11.8606	0.332465	GY	MLC1;MOV10L1	NC_056056.1	112090001	112110001	3.11963	0.287979	HZ	NAP1L1
21.0894	0.6287	GY	MLC1;TTLL8	NC_056056.1	112095001	112115001	6.4551	0.278087	HZ	NAP1L1
10.7958	0.703693	GY	MLC1;TTLL8	NC_056056.1	112100001	112120001	9.07538	0.314728	HZ	NAP1L1
6.79411	0.662409	GY	MLC1;TTLL8	NC_056056.1	112105001	112125001	13.6202	0.425879	HZ	NAP1L1
3.59531	0.222179	GY	MMADHC	NC_056056.1	112110001	112130001	13.0359	0.477133	HZ	NAP1L1
5.04303	0.254326	GY	MMADHC	NC_056056.1	112115001	112135001	12.6905	0.498209	HZ	NAP1L1
13.5	0.291152	GY	MMADHC	NC_056074.1	15105001	15125001	2.44259	0.312716	HZ	NARS2
6.99204	0.263062	GY	MMADHC	NC_056074.1	15110001	15130001	3.47706	0.360394	HZ	NARS2
4.43125	0.228891	GY	MMADHC	NC_056074.1	15115001	15135001	3.90544	0.374856	HZ	NARS2
2.43505	0.207265	GY	MMADHC	NC_056074.1	15120001	15140001	4.98744	0.391617	HZ	NARS2
21.1953	0.202264	GY	MOV10L1	NC_056074.1	15125001	15145001	5.70172	0.420258	HZ	NARS2
16.9614	0.197709	GY	MOV10L1	NC_056074.1	15130001	15150001	4.47733	0.387401	HZ	NARS2
16.099	0.195929	GY	MOV10L1	NC_056074.1	15135001	15155001	3.55285	0.321078	HZ	NARS2
12.4091	0.214877	GY	MPG;NPRL3	NC_056068.1	23220001	23240001	3.83769	0.209714	HZ	NCAM1
2.75718	0.206242	GY	MPP2;PPY;PYY	NC_056068.1	23390001	23410001	2.5114	0.272216	HZ	NCAM1
2.5113	0.21722	GY	MRPL19	NC_056068.1	23395001	23415001	2.74632	0.312705	HZ	NCAM1
2.45514	0.232272	GY	MRPS14	NC_056068.1	23400001	23420001	2.93392	0.315843	HZ	NCAM1
3.19413	0.193959	GY	MRPS14	NC_056068.1	82050001	82070001	3.23767	0.412637	HZ	NCAPD3
4.64754	0.214718	GY	MRPS14	NC_056068.1	82070001	82090001	11.3725	0.446074	HZ	NCAPD3;THYN1;VP
5.5	0.218431	GY	MSH4;RABGGTB	NC_056068.1	82055001	82075001	3.33499	0.4157	HZ	NCAPD3;VPS26B
4.2108	0.219333	GY	MSH4;RABGGTB	NC_056068.1	82060001	82080001	3.57906	0.380033	HZ	NCAPD3;VPS26B
3.60541	0.193887	GY	MSH4;RABGGTB	NC_056068.1	82065001	82085001	8.19231	0.429027	HZ	NCAPD3;VPS26B
4.02532	0.192694	GY	MSII	NC_056059.1	38035001	38055001	7.91092	0.412574	HZ	NCAPG



3.11578	0.220111	GY	MSI1;PLA2G1B	NC_056070.1	51240001	51260001	2.78572	0.219087	HZ	NCOR2
3.3666	0.197756	GY	MTA3	NC_056070.1	51245001	51265001	2.54658	0.304681	HZ	NCOR2
4.30096	0.224312	GY	MTA3	NC_056070.1	51250001	51270001	2.68302	0.317125	HZ	NCOR2
3.59656	0.192273	GY	MTA3	NC_056070.1	51255001	51275001	2.4322	0.340766	HZ	NCOR2
2.81987	0.197851	GY	MTA3	NC_056076.1	37360001	37380001	4.09984	0.275483	HZ	NDC80
2.69539	0.258016	GY	MTFR1	NC_056076.1	37365001	37385001	3.4026	0.270424	HZ	NDC80
3.38855	0.292631	GY	MTFR1	NC_056056.1	86815001	86835001	2.99636	0.217813	HZ	NDUFAF7;PRKD3
3.88764	0.309209	GY	MTFR1	NC_056056.1	86820001	86840001	3.28314	0.229797	HZ	NDUFAF7;PRKD3
3.4813	0.307128	GY	MTFR1	NC_056056.1	86825001	86845001	4.21236	0.273848	HZ	NDUFAF7;PRKD3
2.54505	0.268003	GY	MTFR1	NC_056056.1	86830001	86850001	5.2094	0.313462	HZ	NDUFAF7;PRKD3
3.0991	0.243832	GY	MTHFD1	NC_056054.1	47500001	47520001	2.71886	0.208697	HZ	NEGR1
4.88008	0.299831	GY	MTHFD1	NC_056055.1	111530001	111550001	3.28177	0.297299	HZ	NEK1
3.07025	0.251153	GY	MTHFD1	NC_056055.1	111535001	111555001	3.55624	0.305249	HZ	NEK1
3.79533	0.203215	GY	MTMR3	NC_056055.1	111540001	111560001	3.27343	0.294279	HZ	NEK1
3.61734	0.212656	GY	MTMR3	NC_056055.1	111545001	111565001	3.0049	0.256459	HZ	NEK1
3.2257	0.231721	GY	MTOR	NC_056055.1	111575001	111595001	2.54745	0.285397	HZ	NEK1
2.50621	0.271429	GY	MTOR	NC_056055.1	111580001	111600001	3.69048	0.318577	HZ	NEK1
2.78176	0.262058	GY	MTOR	NC_056055.1	111585001	111605001	5.56452	0.346274	HZ	NEK1
3.60162	0.260343	GY	MTOR	NC_056055.1	111590001	111610001	5.05238	0.326141	HZ	NEK1
3.85366	0.25956	GY	MTOR	NC_056055.1	111595001	111615001	2.74468	0.244873	HZ	NEK1
2.76249	0.191742	GY	MTX3	NC_056079.1	39395001	39415001	2.52034	0.224941	HZ	NGLY1
2.43719	0.257118	GY	MYO16	NC_056080.1	15615001	15635001	2.54913	0.269436	HZ	NHS
2.5813	0.274481	GY	MYO16	NC_056080.1	15620001	15640001	3.05	0.270327	HZ	NHS
2.58223	0.19834	GY	MYO16	NC_056080.1	15625001	15645001	3.32962	0.250964	HZ	NHS
2.579	0.22325	GY	MYO16	NC_056080.1	15630001	15650001	3.5921	0.279981	HZ	NHS
2.7553	0.221007	GY	MYO16	NC_056080.1	15735001	15755001	6.84904	0.240758	HZ	NHS
7.64287	0.262509	GY	MYO16	NC_056080.1	15740001	15760001	10.7819	0.232478	HZ	NHS
2.55914	0.22289	GY	MYO16	NC_056080.1	15785001	15805001	4.75386	0.214092	HZ	NHS
2.46613	0.229709	GY	MYO1A;NEMPI	NC_056080.1	15910001	15930001	13.5768	0.245467	HZ	NHS
3.04074	0.258883	GY	MYO3A	NC_056080.1	15915001	15935001	10.3791	0.256978	HZ	NHS
2.4897	0.228181	GY	MYO3A	NC_056069.1	31600001	31620001	2.47113	0.20502	HZ	NIM1K
2.67992	0.208327	GY	MYO5C	NC_056055.1	236130001	236150001	3.83233	0.23866	HZ	NKAIN1
2.67896	0.206445	GY	MYO5C	NC_056055.1	236135001	236155001	2.55183	0.230527	HZ	NKAIN1
5.08585	0.215827	GY	MYOM1	NC_056062.1	40805001	40825001	3.18824	0.229924	HZ	NKAIN3
5.85715	0.266865	GY	MYOM1	NC_056062.1	40810001	40830001	4.65766	0.263077	HZ	NKAIN3
2.47271	0.232983	GY	MYOM1	NC_056062.1	40815001	40835001	5.37838	0.289076	HZ	NKAIN3
7.58306	0.209066	GY	NAALADL1;SAC31	NC_056062.1	40820001	40840001	6.30649	0.292608	HZ	NKAIN3
5.72	0.197057	GY	NAALADL1;SAC31	NC_056062.1	40825001	40845001	6.50358	0.253821	HZ	NKAIN3
2.89883	0.20505	GY	NAALADL2	NC_056062.1	40830001	40850001	4.45292	0.219487	HZ	NKAIN3
2.6856	0.222565	GY	NAP1L1	NC_056066.1	40245001	40265001	4.30189	0.339491	HZ	NKX2-4
3.27197	0.210383	GY	NBEA	NC_056066.1	40235001	40255001	2.37931	0.266409	HZ	NKX2-4;XRN2
3.64436	0.218905	GY	NBEA	NC_056066.1	40240001	40260001	3.21311	0.313411	HZ	NKX2-4;XRN2
3.4058	0.248538	GY	NBEA	NC_056064.1	19670001	19690001	17.0927	0.342555	HZ	NLK
2.4685	0.21958	GY	NBEA	NC_056064.1	19675001	19695001	9.06756	0.309239	HZ	NLK
2.96411	0.237769	GY	NCAM1	NC_056064.1	19680001	19700001	5.16121	0.233669	HZ	NLK
4.06228	0.259193	GY	NCAM1	NC_056058.1	38445001	38465001	2.4915	0.243907	HZ	NLRP3
3.72819	0.239056	GY	NCAM1	NC_056057.1	67365001	67385001	2.51497	0.209994	HZ	NOD1
2.63889	0.264916	GY	NCAM1	NC_056057.1	67370001	67390001	2.35494	0.291608	HZ	NOD1
2.76305	0.298884	GY	NCAM1	NC_056057.1	67380001	67400001	2.41176	0.336092	HZ	NOD1
2.9584	0.315746	GY	NCAM1	NC_056057.1	67385001	67405001	2.49601	0.33243	HZ	NOD1
3.49157	0.374016	GY	NCAPD3	NC_056057.1	67390001	67410001	2.56232	0.303917	HZ	NOD1
3.54337	0.387321	GY	NCAPD3;VPS26B	NC_056057.1	67395001	67415001	2.5315	0.257192	HZ	NOD1
3.25547	0.281204	GY	NCAPD3;VPS26B	NC_056057.1	67400001	67420001	2.40476	0.259604	HZ	NOD1
6.76923	0.204234	GY	NCAPD3;VPS26B	NC_056057.1	67405001	67425001	2.38433	0.261236	HZ	NOD1
2.69281	0.19453	GY	NCKAPI	NC_056057.1	67415001	67435001	2.56981	0.308302	HZ	NOD1
2.59744	0.205049	GY	NCL	NC_056057.1	67420001	67440001	2.91821	0.245978	HZ	NOD1
2.80182	0.22024	GY	NCL	NC_056057.1	67425001	67445001	2.76265	0.245083	HZ	NOD1
3.21409	0.213001	GY	NCL	NC_056057.1	67430001	67450001	3.06529	0.222541	HZ	NOD1
2.67857	0.255298	GY	NCOR2	NC_056057.1	67435001	67455001	2.6863	0.209661	HZ	NOD1
2.58035	0.321382	GY	NCOR2	NC_056057.1	67440001	67460001	2.42471	0.230357	HZ	NOD1
2.44492	0.318698	GY	NCOR2	NC_056076.1	23180001	23200001	20.736	0.262935	HZ	NOL4
3.0997	0.211049	GY	NCOR2	NC_056076.1	23185001	23205001	16.5532	0.27613	HZ	NOL4
4.90552	0.1934	GY	NCOR2	NC_056076.1	23490001	23510001	3.13368	0.220686	HZ	NOL4
5.28571	0.192758	GY	NCOR2	NC_056076.1	23495001	23515001	3.27028	0.229347	HZ	NOL4
4.03329	0.306524	GY	NDC80	NC_056076.1	23505001	23525001	2.54097	0.215657	HZ	NOL4
3.52134	0.266372	GY	NDC80	NC_056070.1	57900001	57920001	3.64124	0.377837	HZ	NOS1
2.78704	0.202739	GY	NDEL1;RNF222;RI	NC_056056.1	100650001	100670001	3.3541	0.22957	HZ	NPAS2
2.84402	0.26686	GY	NDUFAF7;PRKD3	NC_056056.1	100655001	100675001	3.16194	0.211577	HZ	NPAS2
2.53248	0.251603	GY	NEGR1	NC_056057.1	78530001	78550001	2.55237	0.213795	HZ	NPC1L1
4.45181	0.311198	GY	NEGR1	NC_056077.1	700001	720001	32.3473	0.262444	HZ	NPRL3
7.20003	0.29962	GY	NEGR1	NC_056057.1	73200001	73220001	2.39613	0.222273	HZ	NPY
6.56675	0.257896	GY	NEGR1	NC_056057.1	73205001	73225001	4.20504	0.292521	HZ	NPY
2.96867	0.255441	GY	NELL1	NC_056057.1	73210001	73230001	3.95019	0.3034	HZ	NPY
2.47413	0.220765	GY	NELL1	NC_056070.1	10065001	10085001	2.65889	0.28912	HZ	NR3C2

3.00917	0.272932	GY	NEO1	NC_056070.1	10070001	10090001	2.9909	0.290927	HZ	NR3C2
2.44134	0.212731	GY	NHS	NC_056060.1	99925001	99945001	2.40678	0.217616	HZ	NRDE2
3.01973	0.219303	GY	NHS	NC_056060.1	99905001	99925001	5.48107	0.223246	HZ	NRDE2;PSMC1
5.03774	0.258849	GY	NHS	NC_056060.1	99920001	99940001	4.83552	0.259563	HZ	NRDE2;PSMC1
4.75941	0.263909	GY	NHS	NC_056078.1	36145001	36165001	2.64399	0.338806	HZ	NRG3
3.6538	0.202419	GY	NHS	NC_056080.1	13160001	13162001	2.9838	0.396915	HZ	NRK
6.62432	0.222731	GY	NHS	NC_056080.1	13160501	13162501	2.38878	0.376229	HZ	NRK
4.28205	0.284979	GY	NHS	NC_056056.1	73290001	73310001	5.00944	0.387995	HZ	NRXN1
2.53811	0.264594	GY	NIM1K	NC_056056.1	73820001	73840001	2.40139	0.432567	HZ	NRXN1
2.69041	0.228249	GY	NIM1K	NC_056056.1	73825001	73845001	2.77778	0.361035	HZ	NRXN1
2.79011	0.214777	GY	NIM1K	NC_056056.1	73830001	73850001	2.74418	0.340107	HZ	NRXN1
2.54359	0.225926	GY	NIM1K	NC_056056.1	74060001	74080001	3.63041	0.25982	HZ	NRXN1
3.34687	0.211459	GY	NKAIN2	NC_056056.1	74065001	74085001	4.02991	0.265547	HZ	NRXN1
2.95701	0.207158	GY	NKAIN2	NC_056056.1	74070001	74090001	5.51044	0.29857	HZ	NRXN1
3.319	0.236666	GY	NKAIN3	NC_056056.1	74075001	74095001	5.7373	0.304881	HZ	NRXN1
5.5637	0.236549	GY	NKAIN3	NC_056056.1	74080001	74100001	5.90158	0.257546	HZ	NRXN1
4.6258	0.248213	GY	NKAIN3	NC_056056.1	74085001	74105001	4.91411	0.262457	HZ	NRXN1
3.43561	0.242132	GY	NKAIN3	NC_056056.1	74090001	74110001	2.77352	0.226627	HZ	NRXN1
2.57923	0.246526	GY	NKAIN3	NC_056056.1	500001	520001	4.18098	0.352356	HZ	NSMF;PNPLA7
2.76157	0.224272	GY	NKAIN3	NC_056056.1	505001	525001	4.21221	0.369211	HZ	NSMF;PNPLA7
4.39938	0.301207	GY	NKAIN3	NC_056056.1	510001	530001	4.3844	0.41124	HZ	NSMF;PNPLA7
8.82417	0.199962	GY	NLGN4X	NC_056056.1	515001	535001	2.92347	0.397973	HZ	NSMF;PNPLA7
36.3302	0.242424	GY	NLGN4X	NC_056075.1	23480001	23500001	2.38532	0.306479	HZ	NT5C2
19.2402	0.225052	GY	NLGN4X	NC_056075.1	23485001	23505001	5.31876	0.357307	HZ	NT5C2
2.45842	0.214164	GY	NLK	NC_056075.1	23490001	23510001	14.5229	0.37537	HZ	NT5C2
2.42481	0.241319	GY	NLK	NC_056075.1	23495001	23515001	6.67034	0.332317	HZ	NT5C2
10.0615	0.291461	GY	NLK	NC_056057.1	65330001	65350001	3.15945	0.328429	HZ	NT5C3A
7.50258	0.282835	GY	NLK	NC_056057.1	65335001	65355001	3.17832	0.351711	HZ	NT5C3A
5	0.2387	GY	NLK	NC_056057.1	65340001	65360001	2.4473	0.321956	HZ	NT5C3A
2.60372	0.195216	GY	NLRP3	NC_056073.1	39055001	39075001	2.78889	0.207649	HZ	NUP153
2.80067	0.206532	GY	NLRP3	NC_056073.1	39060001	39080001	2.72276	0.250977	HZ	NUP153
22.2574	0.221015	GY	NOB1;NQO1	NC_056060.1	55770001	55790001	3.06643	0.399323	HZ	ONECUT1
19.3583	0.266445	GY	NOL4	NC_056076.1	32775001	32795001	4.30108	0.255605	HZ	OSBPL1A
15.2815	0.283878	GY	NOL4	NC_056076.1	32780001	32800001	4.42727	0.226289	HZ	OSBPL1A
4.06072	0.208315	GY	NOL4	NC_056076.1	32785001	32805001	6.42212	0.224368	HZ	OSBPL1A
39.3579	0.238047	GY	NPRL3	NC_056076.1	32790001	32810001	8.38931	0.219619	HZ	OSBPL1A
4.1873	0.317555	GY	NPY	NC_056076.1	32795001	32815001	8.00247	0.221035	HZ	OSBPL1A
3.99403	0.317187	GY	NPY	NC_056076.1	32800001	32820001	5.90679	0.254981	HZ	OSBPL1A
2.54905	0.223724	GY	NRG3	NC_056076.1	32805001	32825001	4.15185	0.285705	HZ	OSBPL1A
2.85896	0.253214	GY	NRG3	NC_056076.1	32810001	32830001	3.16893	0.301682	HZ	OSBPL1A
2.54806	0.205511	GY	NRG3	NC_056076.1	32815001	32835001	3.26066	0.303949	HZ	OSBPL1A
2.9078	0.247297	GY	NRG3	NC_056076.1	32820001	32840001	3.61025	0.277083	HZ	OSBPL1A
6.26416	0.274548	GY	NRXN1	NC_056076.1	32825001	32845001	2.59953	0.209173	HZ	OSBPL1A
2.46617	0.211618	GY	NRXN1	NC_056055.1	131945001	131965001	4.44142	0.382934	HZ	OSBPL6
2.52631	0.225608	GY	NRXN1	NC_056055.1	13195001	131970001	4.18827	0.361595	HZ	OSBPL6
2.56431	0.260757	GY	NRXN1	NC_056071.1	67420001	67440001	4.01395	0.575665	HZ	PACS2;TEX22
3.51772	0.301488	GY	NRXN1	NC_056055.1	248915001	248935001	2.80988	0.233136	HZ	PADI4;PADI6
2.65053	0.415996	GY	NRXN1	NC_056064.1	23445001	23465001	2.41553	0.222063	HZ	PAFAH1B1
2.91769	0.382119	GY	NRXN1	NW_024599828	1010001	1030001	2.95916	0.218388	HZ	PAG3
2.87907	0.356184	GY	NRXN1	NW_024599828	1015001	1035001	3.67752	0.227904	HZ	PAG3
2.65883	0.218564	GY	NRXN1	NW_024599828	1175001	1195001	3.51534	0.210903	HZ	PAG3
3.45441	0.328309	GY	NRXN1	NW_024599828	1180001	1200001	3.69345	0.257156	HZ	PAG3
3.57268	0.333543	GY	NRXN1	NW_024599828	1185001	1205001	2.65929	0.240827	HZ	PAG3
4.3484	0.377107	GY	NRXN1	NC_056060.1	16220001	16240001	4.91095	0.214327	HZ	PAQR5
4.1763	0.403714	GY	NRXN1	NC_056056.1	115665001	115685001	2.39949	0.250384	HZ	PAWR
4.1249	0.376369	GY	NRXN1	NC_056056.1	115670001	115690001	2.78309	0.35675	HZ	PAWR
3.74642	0.377131	GY	NRXN1	NC_056056.1	115675001	115695001	2.85461	0.373486	HZ	PAWR
2.551	0.311762	GY	NRXN1	NC_056056.1	115680001	115700001	2.40035	0.333962	HZ	PAWR
2.42401	0.286499	GY	NRXN1	NC_056056.1	115685001	115705001	2.73956	0.265896	HZ	PAWR
3.36177	0.332862	GY	NRXN3	NC_056058.1	43990001	44010001	2.84502	0.232303	HZ	PCBD2
2.7072	0.339979	GY	NRXN3	NC_056058.1	43995001	44015001	8.98969	0.273208	HZ	PCBD2
3.76622	0.235693	GY	NSD3;PLPP5	NC_056058.1	44000001	44020001	14.8067	0.295668	HZ	PCBD2
4.3942	0.283243	GY	NSMCE3	NC_056058.1	44005001	44025001	8.86635	0.293108	HZ	PCBD2
4.07458	0.273893	GY	NSMCE3	NC_056058.1	44010001	44030001	3.91111	0.295512	HZ	PCBD2
2.60954	0.250898	GY	NT5C2	NC_056075.1	4560001	4580001	2.92001	0.245734	HZ	PCDH15
5.60668	0.325672	GY	NT5C2	NC_056075.1	4565001	4585001	2.91346	0.277892	HZ	PCDH15
14.4706	0.37856	GY	NT5C2	NC_056054.1	246810001	246830001	2.82228	0.217623	HZ	PCOLCE2
6.57143	0.34759	GY	NT5C2	NC_056058.1	14215001	14235001	7.73785	0.278811	HZ	PCP2;STXBP2
4.10424	0.204177	GY	NTM	NC_056068.1	27610001	27630001	3.06857	0.231876	HZ	PCSK7;SIDT2;TAGL1
19.0917	0.2783	GY	NTM	NC_056068.1	27615001	27635001	3.50215	0.269541	HZ	PCSK7;SIDT2;TAGL1
26.4111	0.221509	GY	NTM	NC_056055.1	73665001	73685001	2.76084	0.336007	HZ	PDCD1LG2
2.733	0.296245	GY	NTM	NC_056055.1	73670001	73690001	2.53943	0.322259	HZ	PDCD1LG2
2.60646	0.229213	GY	NTM	NC_056056.1	100870001	100890001	2.54659	0.228311	HZ	PDCL3
3.55283	0.206411	GY	NTMT2	NC_056056.1	100875001	100895001	2.50045	0.2425	HZ	PDCL3

3.91058	0.203706	GY	NTMT2	NC_056055.1	127420001	127440001	2.43069	0.241209	HZ	PDE1A
4.32543	0.207529	GY	NTMT2	NC_056055.1	127425001	127445001	2.43548	0.237206	HZ	PDE1A
3.83871	0.214503	GY	NTMT2	NC_056058.1	58995001	59015001	3.38841	0.215882	HZ	PDE6A;SLC26A2
4.47644	0.216572	GY	OB11;POU4F1	NC_056058.1	59000001	59020001	3.36378	0.210332	HZ	PDE6A;SLC26A2
3.99532	0.210408	GY	OB11;POU4F1	NC_056058.1	59005001	59025001	2.60827	0.212458	HZ	PDE6A;SLC26A2
12.2081	0.231211	GY	OGDH	NC_056058.1	59020001	59040001	2.62514	0.216675	HZ	PDE6A;SLC26A2
5.00407	0.250198	GY	OGDH	NC_056058.1	59030001	59050001	2.44864	0.2142	HZ	PDE6A;SLC26A2
3.26074	0.256152	GY	OGDH	NC_056060.1	8525001	8545001	2.49494	0.273843	HZ	PDE8B
2.63359	0.240302	GY	OGDH;TMED4	NC_056060.1	8535001	8555001	3.33806	0.226172	HZ	PDE8B
4.32325	0.283938	GY	OPCML	NC_056080.1	22730001	22750001	9.54288	0.237435	HZ	PDK3
4.85331	0.290565	GY	OPCML	NC_056080.1	22735001	22755001	3.33035	0.211576	HZ	PDK3
4.31345	0.280483	GY	OPCML	NC_056080.1	22800001	22820001	6.218	0.275405	HZ	PDK3
6.27573	0.20854	GY	OSBPL1A	NC_056080.1	22805001	22825001	4.7986	0.230372	HZ	PDK3
4.21481	0.235486	GY	OSBPL1A	NC_056060.1	66790001	66810001	5.78446	0.223606	HZ	PELI2
3.10912	0.257613	GY	OSBPL1A	NC_056080.1	20415001	20435001	3.49231	0.216962	HZ	PHEX
3.16126	0.253793	GY	OSBPL1A	NC_056080.1	20420001	20440001	4.80818	0.264094	HZ	PHEX
3.40646	0.213174	GY	OSBPL1A	NC_056080.1	20425001	20445001	3.85396	0.233237	HZ	PHEX
3.75544	0.24607	GY	OTOGL	NC_056080.1	20435001	20455001	2.6498	0.243256	HZ	PHEX
2.72525	0.235635	GY	OTOGL	NC_056080.1	20440001	20460001	2.80255	0.220876	HZ	PHEX
2.75458	0.318882	GY	OTOGL	NC_056080.1	20445001	20465001	2.76031	0.24443	HZ	PHEX
3.36445	0.266613	GY	OTOGL	NC_056080.1	20450001	20470001	2.59776	0.260465	HZ	PHEX
3.05452	0.338612	GY	OTOGL	NC_056080.1	20455001	20475001	2.9422	0.209298	HZ	PHEX
2.47131	0.311047	GY	OTOGL	NC_056057.1	20075001	20095001	3.345	0.282447	HZ	PHF14
2.68106	0.250073	GY	OTOGL	NC_056055.1	2670001	2690001	3.83499	0.313161	HZ	PHF19
2.64979	0.264489	GY	OTOGL	NC_056055.1	2675001	2695001	3.9086	0.282418	HZ	PHF19
2.42206	0.292575	GY	OTOGL	NC_056055.1	2680001	2700001	3.92534	0.270024	HZ	PHF19
2.65233	0.248995	GY	PACRG	NC_056055.1	2685001	2705001	4.70018	0.259244	HZ	PHF19
2.86155	0.238203	GY	PACRG	NC_056055.1	27915001	27935001	4.03354	0.270481	HZ	PHF2
2.84079	0.228495	GY	PACRG	NC_056055.1	27920001	27940001	5.41109	0.32771	HZ	PHF2
2.91647	0.214641	GY	PACRG	NC_056055.1	27925001	27945001	3.90643	0.30298	HZ	PHF2
2.91664	0.199485	GY	PACRG	NC_056055.1	27930001	27950001	3.81876	0.331268	HZ	PHF2
2.66667	0.279207	GY	PACS2;TEX22	NC_056055.1	27935001	27955001	4.51345	0.380446	HZ	PHF2
5.86046	0.358877	GY	PACS2;TEX22	NC_056055.1	27940001	27960001	4.77945	0.398859	HZ	PHF2
2.43991	0.238608	GY	PACSIN1	NC_056055.1	27945001	27965001	7.30226	0.447053	HZ	PHF2
19.4004	0.196887	GY	PADI3	NC_056055.1	27950001	27970001	6.48069	0.425858	HZ	PHF2
21.5088	0.257977	GY	PADI3	NC_056080.1	65190001	65210001	2.39886	0.254911	HZ	PHKA1
23.8975	0.288459	GY	PADI3	NC_056080.1	65195001	65215001	2.61914	0.234281	HZ	PHKA1
15.5969	0.228076	GY	PADI3	NC_056076.1	60875001	60895001	19.6723	0.208362	HZ	PIGN
8.68234	0.230154	GY	PADI4	NC_056076.1	60895001	60915001	27.7724	0.211076	HZ	PIGN
21.1863	0.304509	GY	PADI4	NC_056076.1	60900001	60920001	31.1746	0.270765	HZ	PIGN;RELCH
33.5681	0.277048	GY	PADI4	NC_056076.1	60905001	60925001	30.7833	0.30797	HZ	PIGN;RELCH
31.4769	0.261316	GY	PADI4	NC_056076.1	60915001	60935001	22.9804	0.303756	HZ	PIGN;RELCH
31.0269	0.259369	GY	PADI4	NC_056067.1	7275001	7295001	14.9301	0.23378	HZ	PKD1L2
4.79361	0.201887	GY	PARVB	NC_056067.1	7895001	7915001	2.42605	0.205316	HZ	PLCG2
2.50812	0.208373	GY	PATL1	NC_056067.1	7900001	7920001	2.62627	0.21127	HZ	PLCG2
2.58089	0.217773	GY	PATL1	NC_056054.1	216440001	216460001	6.04412	0.208819	HZ	PLD1
2.48356	0.4081	GY	PAWR	NC_056054.1	216445001	216465001	16.2468	0.285329	HZ	PLD1
2.4833	0.442216	GY	PAWR	NC_056054.1	216460001	216480001	17.0354	0.308512	HZ	PLD1
2.57473	0.294401	GY	PAWR	NC_056054.1	216465001	216485001	18.7627	0.310856	HZ	PLD1
3.16702	0.218355	GY	PBRM1	NC_056054.1	216470001	216490001	22.982	0.313666	HZ	PLD1
2.93387	0.214017	GY	PBRM1	NC_056054.1	216475001	216495001	7.02891	0.326583	HZ	PLD1
7.38143	0.602413	GY	PCBD2	NC_056054.1	216480001	216500001	3.92063	0.30687	HZ	PLD1
12.0336	0.640769	GY	PCBD2	NC_056054.1	216485001	216505001	2.52312	0.269719	HZ	PLD1
7.00921	0.61459	GY	PCBD2	NC_056056.1	196430001	196450001	2.39666	0.239203	HZ	PLEKHA5
3.05397	0.53297	GY	PCBD2	NC_056068.1	35350001	35370001	4.97015	0.223889	HZ	PLEKHA7
2.52959	0.203838	GY	PCCA	NC_056068.1	35355001	35375001	3.9675	0.219446	HZ	PLEKHA7
3.3616	0.250642	GY	PCCA	NC_056065.1	51135001	51155001	2.75785	0.27766	HZ	PLEKHM2
4.77924	0.28594	GY	PCCA	NC_056065.1	51140001	51160001	3.23354	0.27675	HZ	PLEKHM2
3.87027	0.266837	GY	PCOLCE2	NC_056065.1	51145001	51165001	2.51697	0.249649	HZ	PLEKHM2
7.88554	0.340732	GY	PCOLCE2	NC_056054.1	76280001	76300001	2.88908	0.228804	HZ	PLPPR5
28.4941	0.343839	GY	PCOLCE2	NC_056054.1	76285001	76305001	3.23729	0.264244	HZ	PLPPR5
3.03615	0.345271	GY	PDE1A	NC_056054.1	76290001	76310001	2.81129	0.364747	HZ	PLPPR5
2.56347	0.257716	GY	PDE8B;WDR41	NC_056054.1	76295001	76315001	2.43764	0.400355	HZ	PLPPR5
2.51361	0.224004	GY	PDS5A	NC_056054.1	247005001	247025001	22.1494	0.367989	HZ	PLS1
6.25607	0.496384	GY	PDZRN4	NC_056054.1	247040001	247060001	3.12663	0.218186	HZ	PLS1
5.44775	0.509898	GY	PDZRN4	NC_056054.1	247045001	247065001	3.20404	0.270871	HZ	PLS1
2.98246	0.193669	GY	PGRMC2	NC_056065.1	74575001	74595001	22.7626	0.2082	HZ	PLXNA2
2.6502	0.210048	GY	PHC3	NC_056056.1	225560001	225580001	2.5449	0.287732	HZ	PLXNB2
2.87666	0.212096	GY	PHC3	NC_056056.1	475001	495001	3.15392	0.337883	HZ	PNPLA7
5.51418	0.20445	GY	PHF2	NC_056056.1	480001	500001	4.3677	0.40408	HZ	PNPLA7
8.23152	0.193751	GY	PHF2	NC_056056.1	485001	505001	3.82899	0.413917	HZ	PNPLA7
3.93118	0.202083	GY	PHYKPL	NC_056056.1	490001	510001	4.83801	0.419874	HZ	PNPLA7
3.64292	0.211725	GY	PI4K2B	NC_056056.1	495001	515001	3.8256	0.357074	HZ	PNPLA7
4.06316	0.20746	GY	PI4K2B	NC_056060.1	7105001	7125001	2.53913	0.22311	HZ	POC5

2.77208	0.214923	GY	PIK3AP1	NC_056060.1	7110001	7130001	2.47984	0.260312	HZ	POC5
2.81781	0.196738	GY	PIP4K2A	NC_056059.1	20110001	20130001	6.73059	0.212543	HZ	PPA2
7.51961	0.301405	GY	PKD1L2	NC_056058.1	55720001	55740001	2.89093	0.245403	HZ	PPP2R2B
13.2238	0.323275	GY	PKD1L2	NC_056058.1	55725001	55745001	2.86265	0.287224	HZ	PPP2R2B
17	0.297574	GY	PKD1L2	NC_056054.1	253950001	253970001	2.3911	0.249903	HZ	PPP2R3A
5.36538	0.200526	GY	PKD1L2	NC_056059.1	23900001	23920001	4.13458	0.254035	HZ	PPP3CA
2.47429	0.231305	GY	PKD2L1	NC_056059.1	23925001	23945001	11.6971	0.250458	HZ	PPP3CA
2.40921	0.360833	GY	PKP2	NC_056059.1	23930001	23950001	8.6994	0.215248	HZ	PPP3CA
4.79973	0.194228	GY	PLCB1	NC_056056.1	176530001	176550001	4.72333	0.275378	HZ	PRDM4;PWP1
3.26562	0.200665	GY	PLCG2	NC_056056.1	176535001	176555001	3.95272	0.247666	HZ	PRDM4;PWP1
2.40573	0.21651	GY	PLCG2	NC_056059.1	4895001	4915001	2.61825	0.220511	HZ	PRDM5
26.5044	0.217572	GY	PLD1	NC_056059.1	4900001	4920001	3.83922	0.228142	HZ	PRDM5
24.7034	0.218836	GY	PLD1	NC_056059.1	4905001	4925001	3.55951	0.232906	HZ	PRDM5
2.97643	0.197042	GY	PLD1	NC_056059.1	4910001	4930001	2.96089	0.249804	HZ	PRDM5
2.70106	0.333784	GY	PLEKHM2	NC_056065.1	54290001	54310001	5.63935	0.244905	HZ	PRDX6;SLC9C2
3.22554	0.365146	GY	PLEKHM2	NC_056065.1	66835001	66855001	3.32792	0.30273	HZ	PRG4;TPR
2.47305	0.312831	GY	PLEKHM2	NC_056065.1	66840001	66860001	5.76392	0.355178	HZ	PRG4;TPR
11.1919	0.242895	GY	PLPPR4	NC_056057.1	49690001	49710001	2.80782	0.206578	HZ	PRKAR2B
16.7832	0.237107	GY	PLPPR4	NC_056056.1	78220001	78240001	4.44444	0.239476	HZ	PRKCE
21.3276	0.270855	GY	PLPPR4	NC_056056.1	78225001	78245001	4.00633	0.228099	HZ	PRKCE
17.988	0.271118	GY	PLPPR4	NC_056056.1	78230001	78250001	4.4642	0.25035	HZ	PRKCE
24.3678	0.385557	GY	PLS1	NC_056056.1	78235001	78255001	2.91002	0.216833	HZ	PRKCE
3.57773	0.19245	GY	PLS1	NC_056056.1	78605001	78625001	4.61756	0.274089	HZ	PRKCE
2.45356	0.219132	GY	PLS1	NC_056075.1	7825001	7845001	3.27991	0.295833	HZ	PRKG1
2.80156	0.274625	GY	PLS1	NC_056075.1	7830001	7850001	5.58997	0.333273	HZ	PRKG1
3.01616	0.340872	GY	PLS1	NC_056075.1	7840001	7860001	28.9047	0.401182	HZ	PRKG1
2.79661	0.240038	GY	PLXDC2	NC_056075.1	7845001	7865001	21.381	0.357726	HZ	PRKG1
40.4964	0.223225	GY	POLK	NC_056075.1	7850001	7870001	13.3433	0.267161	HZ	PRKG1
42.7043	0.224815	GY	POLK	NC_056075.1	7855001	7875001	5.77479	0.214644	HZ	PRKG1
35.1705	0.197342	GY	POLK	NC_056059.1	112025001	112045001	2.6838	0.322568	HZ	PROM1
4.99283	0.231866	GY	POU4F1	NC_056059.1	112030001	112050001	6.49085	0.518035	HZ	PROM1
2.94291	0.194741	GY	PPFIA2	NC_056059.1	112035001	112055001	12.3217	0.568567	HZ	PROM1
5.5535	0.235852	GY	PPFIA2	NC_056059.1	112040001	112060001	12.4919	0.577953	HZ	PROM1
8.69545	0.248386	GY	PPFIA2	NC_056059.1	112045001	112065001	9.46808	0.425684	HZ	PROM1
4.99835	0.265452	GY	PPFIA2	NC_056056.1	104425001	104445001	7.20197	0.426805	HZ	PROM2
4.65698	0.270322	GY	PPFIA2	NC_056056.1	104430001	104450001	5.31792	0.413833	HZ	PROM2
3.03523	0.231438	GY	PPFIA2	NC_056056.1	104435001	104455001	2.94978	0.367465	HZ	PROM2
2.56625	0.383291	GY	PPFIA2	NC_056056.1	136935001	136955001	3.7551	0.403957	HZ	PRPH
5.18943	0.319649	GY	PPFIA2	NC_056056.1	136940001	136960001	4.52823	0.440608	HZ	PRPH
4.55986	0.224595	GY	PPFIA2	NC_056058.1	31075001	31095001	2.8518	0.218297	HZ	PRR16
7.77881	0.242718	GY	PPP1R1A	NC_056060.1	52885001	52905001	3.17748	0.209109	HZ	PRTG
5.97102	0.474735	GY	PPP1R1C	NC_056077.1	41750001	41770001	4.53995	0.290968	HZ	PSMG3
6.15773	0.480239	GY	PPP1R1C	NC_056077.1	41755001	41775001	4.59063	0.302252	HZ	PSMG3;TMEM184A
7.59108	0.507259	GY	PPP1R1C	NC_056077.1	41760001	41780001	4.05351	0.271197	HZ	PSMG3;TMEM184A
6.8254	0.507562	GY	PPP1R1C	NC_056071.1	29875001	29895001	3.80662	0.318674	HZ	PSTPIP1
4.20994	0.48116	GY	PPP1R1C	NC_056071.1	29880001	29900001	4.22023	0.331931	HZ	PSTPIP1
2.79549	0.426976	GY	PPP1R1C	NC_056071.1	29885001	29905001	2.97026	0.352379	HZ	PSTPIP1
2.64386	0.424756	GY	PPP1R1C	NC_056069.1	9375001	9395001	4.37812	0.214636	HZ	PTCD2
2.46245	0.40994	GY	PPP1R1C	NC_056069.1	9380001	9400001	4.37017	0.204831	HZ	PTCD2
3.21814	0.239488	GY	PPP2R2B	NC_056054.1	19500001	19520001	2.81764	0.278962	HZ	PTCH2
3.0089	0.276192	GY	PPP2R2B	NC_056055.1	78130001	78150001	2.41942	0.217286	HZ	PTPRD
3.42013	0.213125	GY	PPP3CA	NC_056055.1	78135001	78155001	3.87393	0.260086	HZ	PTPRD
3.79933	0.293002	GY	PPP3CA	NC_056072.1	39215001	39235001	4.64936	0.317412	HZ	PTPRG
8.95594	0.37853	GY	PPP3CA	NC_056072.1	39220001	39240001	3.63027	0.303375	HZ	PTPRG
5.42193	0.34693	GY	PPP3CA	NC_056072.1	39530001	39550001	2.61589	0.214286	HZ	PTPRG
2.52214	0.267546	GY	PPP3CA	NC_056056.1	176525001	176545001	4.40316	0.270875	HZ	PWP1
3.29956	0.222435	GY	PPY;PPY	NC_056056.1	194330001	194350001	3.95282	0.220288	HZ	PYROXD1
2.98387	0.387358	GY	PRDM16	NC_056055.1	175215001	175235001	3.14634	0.234318	HZ	R3HDM1
3.80961	0.418031	GY	PRDM16	NC_056055.1	175220001	175240001	2.55827	0.210171	HZ	R3HDM1
4.14453	0.399217	GY	PRDM16	NC_056075.1	37845001	37865001	8.52468	0.210446	HZ	RAB11FIP2
2.61144	0.372858	GY	PRDM16	NC_056054.1	256125001	256145001	2.62297	0.307486	HZ	RAB6B
2.47166	0.249914	GY	PRDM16	NC_056065.1	55505001	55525001	3.58838	0.208051	HZ	RABGAP1L
2.8058	0.254193	GY	PRDM16	NC_056065.1	55510001	55530001	2.8117	0.290612	HZ	RABGAP1L
3.43992	0.226628	GY	PRG4;TPR	NC_056065.1	55515001	55535001	2.67236	0.31703	HZ	RABGAP1L
5.62764	0.26645	GY	PRG4;TPR	NC_056065.1	55520001	55540001	3.66201	0.332136	HZ	RABGAP1L
2.66109	0.344278	GY	PRKCA	NC_056065.1	55525001	55545001	5.56862	0.312801	HZ	RABGAP1L
3.49736	0.356154	GY	PRKCA	NC_056065.1	55530001	55550001	6.94884	0.281708	HZ	RABGAP1L
4.17848	0.326797	GY	PRKCA	NC_056065.1	55535001	55555001	8.36843	0.249984	HZ	RABGAP1L
2.76807	0.223709	GY	PRKCA	NC_056060.1	78070001	78090001	3.24597	0.302959	HZ	RAD51B
2.69085	0.242415	GY	PRKCA	NC_056060.1	78075001	78095001	6.67289	0.350762	HZ	RAD51B
2.84044	0.268862	GY	PRKCA	NC_056060.1	78090001	78110001	9.7	0.356652	HZ	RAD51B
2.63561	0.285863	GY	PRKCA	NC_056060.1	78095001	78115001	3.90576	0.287562	HZ	RAD51B
4.55178	0.195553	GY	PRKX	NC_056060.1	78100001	78120001	2.53358	0.218009	HZ	RAD51B
16.2978	0.206619	GY	PROM1	NC_056056.1	3830001	3850001	2.65224	0.205921	HZ	RALGDS

4.07823	0.192086	GY	PRPH	NC_056070.1	40045001	40065001	2.38182	0.339092	HZ	RAPGEF2
4.85484	0.225371	GY	PRPH	NC_056070.1	40050001	40070001	2.68583	0.32215	HZ	RAPGEF2
2.47177	0.200855	GY	PRR16	NC_056079.1	39770001	39790001	9.86394	0.25598	HZ	RARB
2.46359	0.194189	GY	PRTG	NC_056079.1	39775001	39795001	14.335	0.307338	HZ	RARB
3.14732	0.196334	GY	PRTG	NC_056079.1	39780001	39800001	17.2877	0.344047	HZ	RARB
3.31602	0.192214	GY	PRTG	NC_056079.1	39785001	39805001	21.0652	0.368795	HZ	RARB
3.57735	0.380804	GY	PSTPIP1	NC_056079.1	39800001	39820001	20.017	0.381514	HZ	RARB
3.97917	0.398688	GY	PSTPIP1	NC_056079.1	39805001	39825001	12.9181	0.347165	HZ	RARB
2.96568	0.397761	GY	PSTPIP1	NC_056079.1	39810001	39830001	14.7377	0.294433	HZ	RARB
3.13379	0.250802	GY	PTCD2	NC_056079.1	39815001	39835001	3.68571	0.211816	HZ	RARB
4.54386	0.287283	GY	PTCD2	NC_056065.1	58935001	58955001	2.67164	0.29998	HZ	RASAL2
4.48956	0.280762	GY	PTCD2	NC_056065.1	58940001	58960001	4.23418	0.329192	HZ	RASAL2
2.64809	0.216349	GY	PTCD2	NC_056065.1	58945001	58965001	4.28471	0.335491	HZ	RASAL2
7.05801	0.312406	GY	PTPRG	NC_056065.1	58950001	58970001	2.36557	0.331489	HZ	RASAL2
5.58082	0.33104	GY	PTPRG	NC_056077.1	6490001	6510001	5.08872	0.22046	HZ	RBFOX1
3.80836	0.195466	GY	PTPRG	NC_056077.1	6495001	6515001	3.82561	0.205621	HZ	RBFOX1
4.04593	0.277139	GY	PUS7	NC_056077.1	6830001	6850001	2.63892	0.212879	HZ	RBFOX1
2.77814	0.256343	GY	PUS7	NC_056077.1	6835001	6855001	3.39072	0.22804	HZ	RBFOX1
3.17022	0.264978	GY	PYROXD1	NC_056056.1	179610001	179630001	2.41797	0.216201	HZ	RBFOX2
7.27692	0.274143	GY	PYY	NC_056064.1	52520001	52540001	3.56177	0.406577	HZ	RBFOX3
6.63404	0.216834	GY	PYY	NC_056055.1	149295001	149315001	3.11683	0.245676	HZ	RBMS1
3.65415	0.232346	GY	QRFPR	NC_056072.1	4460001	4480001	2.71761	0.339053	HZ	RBMS3
2.81597	0.401771	GY	R3HDM1	NC_056072.1	4465001	4485001	3.11874	0.341888	HZ	RBMS3
2.40038	0.352594	GY	R3HDM1	NC_056072.1	4470001	4490001	4.45563	0.356746	HZ	RBMS3
2.42791	0.294637	GY	RABGAP1L	NC_056072.1	4475001	4495001	3.33853	0.325309	HZ	RBMS3
3.09777	0.390465	GY	RABGAP1L	NC_056072.1	4480001	4500001	2.8043	0.305985	HZ	RBMS3
5.31765	0.319232	GY	RABGAP1L	NC_056072.1	4485001	4505001	3.25869	0.31977	HZ	RBMS3
7.07441	0.30008	GY	RABGAP1L	NC_056071.1	29845001	29865001	8.93428	0.295235	HZ	RCN2
8.36257	0.281896	GY	RABGAP1L	NC_056055.1	52415001	52435001	3.39408	0.248344	HZ	RECK
5.84375	0.233066	GY	RABGAP1L	NC_056055.1	52420001	52440001	12.9622	0.330719	HZ	RECK
2.71336	0.243398	GY	RACK1;TRIM52	NC_056076.1	60920001	60940001	17.1053	0.280132	HZ	RELCH
3.34879	0.282718	GY	RAD51B	NC_056076.1	60925001	60945001	11.9858	0.266926	HZ	RELCH
7.07944	0.289153	GY	RAD51B	NC_056076.1	60930001	60950001	9.59355	0.256521	HZ	RELCH
4.78012	0.202226	GY	RAD51B	NC_056076.1	60935001	60955001	11.4272	0.257332	HZ	RELCH
2.903	0.251218	GY	RAD51B	NC_056076.1	60940001	60960001	9.31788	0.247157	HZ	RELCH
2.77114	0.201576	GY	RAD51B	NC_056076.1	60945001	60965001	10.5385	0.235552	HZ	RELCH
3	0.201272	GY	RAD51B	NC_056076.1	60950001	60970001	11.6407	0.230139	HZ	RELCH
3.26696	0.210337	GY	RAD51B	NC_056057.1	46470001	46490001	4.27598	0.370886	HZ	RELN
3.10708	0.247845	GY	RAD51B	NC_056057.1	46475001	46495001	2.91616	0.329508	HZ	RELN
2.41084	0.328571	GY	RAD51B	NC_056057.1	46480001	46500001	3.32774	0.323359	HZ	RELN
2.51271	0.192899	GY	RAI2	NC_056057.1	46485001	46505001	3.04256	0.284756	HZ	RELN
3.82782	0.236312	GY	RAI2	NC_056058.1	14225001	14245001	6.03507	0.295118	HZ	RETN
3.75975	0.264599	GY	RALGPS1	NC_056056.1	101870001	101890001	2.89258	0.206991	HZ	REV1
6.29488	0.324657	GY	RALGPS1	NC_056056.1	101875001	101895001	2.7282	0.2114	HZ	REV1
8.32856	0.329633	GY	RALGPS1	NC_056056.1	101880001	101900001	2.73509	0.233071	HZ	REV1
10.7614	0.337919	GY	RALGPS1	NC_056055.1	71855001	71875001	5.2247	0.229741	HZ	RFX3
2.46447	0.208232	GY	RALYL	NC_056055.1	71860001	71880001	8.01328	0.262806	HZ	RFX3
17.1695	0.198844	GY	RARB	NC_056056.1	100120001	100140001	24.2976	0.3137	HZ	RFX8
2.95067	0.218076	GY	RASAL2	NC_056056.1	100170001	100190001	2.53425	0.250078	HZ	RFX8
3.40701	0.220951	GY	RASAL2	NC_056056.1	100175001	100195001	2.76479	0.268419	HZ	RFX8
4.09021	0.197882	GY	RASAL2	NC_056056.1	100180001	100200001	2.3569	0.23809	HZ	RFX8
2.65603	0.197386	GY	RASAL2	NC_056062.1	77175001	77195001	2.57931	0.210262	HZ	RGS22
6.01676	0.201696	GY	RBBP8	NC_056060.1	81590001	81610001	3.05867	0.293699	HZ	RGS6
11.9627	0.258553	GY	RBBP8	NC_056060.1	81595001	81615001	3.84727	0.315536	HZ	RGS6
2.53958	0.247712	GY	RBFOX1	NC_056060.1	81600001	81620001	3.72372	0.311659	HZ	RGS6
3.09192	0.196776	GY	RBM24	NC_056060.1	81625001	81645001	2.52465	0.332212	HZ	RGS6
2.49458	0.214815	GY	RBM38	NC_056060.1	81630001	81650001	2.988	0.356316	HZ	RGS6
2.89013	0.220578	GY	RBMS3	NC_056060.1	81635001	81655001	3.00914	0.353386	HZ	RGS6
3.12756	0.209079	GY	RBMS3	NC_056060.1	81640001	81660001	2.7708	0.367217	HZ	RGS6
2.51984	0.35414	GY	RBMS3	NC_056065.1	34775001	34795001	5.44674	0.578728	HZ	RGS7
2.82495	0.382072	GY	RBMS3	NC_056065.1	34780001	34800001	5.8571	0.539079	HZ	RGS7
4.05948	0.407175	GY	RBMS3	NC_056058.1	92705001	92725001	5.11644	0.206138	HZ	RHOBTB3
3.0437	0.304512	GY	RBMS3	NC_056058.1	92710001	92730001	3.95891	0.245243	HZ	RHOBTB3
2.52046	0.221028	GY	RBMS3	NC_056055.1	73755001	73775001	2.85826	0.302902	HZ	RIC1
2.8426	0.218277	GY	RBMS3	NC_056055.1	73820001	73840001	2.63216	0.220098	HZ	RIC1
9.26276	0.258529	GY	RCN2	NC_056055.1	73825001	73845001	2.49663	0.231577	HZ	RIC1
2.7451	0.209896	GY	RELN	NC_056062.1	73870001	73890001	4.05681	0.241298	HZ	RIMS2
2.42934	0.2558	GY	RELN	NC_056062.1	73875001	73895001	4.67593	0.317567	HZ	RIMS2
4.51947	0.326338	GY	RELN	NC_056062.1	73880001	73900001	3.50336	0.250087	HZ	RIMS2
2.95031	0.305278	GY	RELN	NC_056062.1	73885001	73905001	3.2669	0.27508	HZ	RIMS2
3.35294	0.324159	GY	RELN	NC_056058.1	68340001	68360001	2.41783	0.340789	HZ	RNF145
3.18297	0.291858	GY	RELN	NC_056058.1	68345001	68365001	2.72184	0.293843	HZ	RNF145
2.56897	0.245194	GY	RELN	NC_056058.1	68350001	68370001	3.05289	0.314866	HZ	RNF145
2.55755	0.220249	GY	RELN	NC_056062.1	76990001	77010001	3.55314	0.272727	HZ	RNF19A

7.77457	0.202927	GY	RERE	NC_056062.1	76995001	77015001	4.46995	0.267653	HZ	RNF19A
9.3586	0.226194	GY	RERE	NC_056062.1	77000001	77020001	3.7077	0.231728	HZ	RNF19A
8.57954	0.238306	GY	RERE	NC_056055.1	52125001	52145001	4.72044	0.332043	HZ	RNF38
6.53893	0.205952	GY	RERE	NC_056055.1	52130001	52150001	2.96141	0.252083	HZ	RNF38
17.2727	0.304227	GY	RFX8	NC_056054.1	147745001	147765001	4.41215	0.272505	HZ	ROBO1
2.58448	0.21931	GY	RFX8	NC_056054.1	147750001	147770001	2.79667	0.25294	HZ	ROBO1
2.61761	0.230973	GY	RFX8	NC_056076.1	35475001	35495001	2.52966	0.267053	HZ	ROCK1
4.81818	0.193887	GY	RGS16;RNASEL	NC_056076.1	35480001	35500001	2.60325	0.247026	HZ	ROCK1
6.07074	0.20996	GY	RGS16;RNASEL	NC_056076.1	35485001	35505001	2.76959	0.274601	HZ	ROCK1
2.53246	0.229049	GY	RHBDD2	NC_056076.1	35520001	35540001	2.50799	0.286376	HZ	ROCK1
2.86491	0.226626	GY	RNF145	NC_056054.1	39205001	39225001	2.58701	0.22508	HZ	ROR1
2.94483	0.275471	GY	RNF145	NC_056060.1	47370001	47390001	2.61283	0.250032	HZ	RORA
3.28606	0.293544	GY	RNF145	NC_056080.1	37835001	37855001	4.01209	0.277224	HZ	RPGR
2.5095	0.223312	GY	RNF145	NC_056080.1	37840001	37860001	3.37226	0.273262	HZ	RPGR
3.48309	0.342929	GY	RNF19A	NC_056077.1	14185001	14205001	12.8241	0.274701	HZ	RRN3
4.56012	0.335789	GY	RNF19A	NC_056074.1	15910001	15930001	2.49236	0.212993	HZ	RSF1
4.33538	0.276662	GY	RNF19A	NC_056074.1	15915001	15935001	6.1111	0.291386	HZ	RSF1
3.51546	0.212915	GY	RNF19A	NC_056066.1	30515001	30535001	2.46879	0.2242	HZ	RSU1
3.84123	0.194404	GY	RNF19A	NC_056079.1	13565001	13585001	3.94776	0.211183	HZ	RWDD4;TRAPPC11
3.28058	0.210044	GY	RNF19A	NC_056079.1	13570001	13590001	5.35424	0.239784	HZ	RWDD4;TRAPPC11
3.81473	0.227459	GY	RNF19A	NC_056078.1	9155001	9175001	6.91667	0.277762	HZ	RYR2
2.60201	0.203705	GY	ROBO1	NC_056078.1	9160001	9180001	4.1151	0.281795	HZ	RYR2
4.68276	0.228075	GY	ROBO1	NC_056067.1	19045001	19065001	4.54357	0.279246	HZ	SALL1
3.05318	0.196262	GY	ROBO1	NC_056067.1	19050001	19070001	7.66893	0.243467	HZ	SALL1
3.04805	0.213311	GY	ROBO2	NC_056067.1	19055001	19075001	5.75171	0.225492	HZ	SALL1
2.53814	0.210464	GY	ROCK1	NC_056062.1	58795001	58815001	3.73684	0.245752	HZ	SAMD12
2.45476	0.312696	GY	ROCK1	NC_056062.1	58800001	58820001	3.31029	0.24064	HZ	SAMD12
2.6636	0.321781	GY	ROCK1	NC_056062.1	58805001	58825001	2.70158	0.249446	HZ	SAMD12
2.644	0.268332	GY	ROCK1	NC_056056.1	220605001	220625001	3.14888	0.241843	HZ	SAMM50
9.07859	0.192598	GY	RORA	NC_056058.1	43760001	43780001	2.38897	0.345135	HZ	SAR1B
7.65949	0.253827	GY	RP1L1	NC_056058.1	43765001	43785001	2.68456	0.349616	HZ	SAR1B
10.978	0.270088	GY	RP1L1	NC_056058.1	43770001	43790001	2.62109	0.352794	HZ	SAR1B
12.3788	0.283845	GY	RP1L1	NC_056056.1	140490001	140510001	3.53458	0.258677	HZ	SCAF11
6.31956	0.215228	GY	RP1L1	NC_056056.1	140495001	140515001	3.3889	0.253273	HZ	SCAF11
5.2453	0.277997	GY	RPIA	NC_056056.1	140500001	140520001	3.58918	0.277565	HZ	SCAF11
7.25869	0.293575	GY	RPIA	NC_056056.1	140505001	140525001	4.1	0.277018	HZ	SCAF11
8.08	0.2842	GY	RPIA	NC_056056.1	140510001	140530001	4.06416	0.306399	HZ	SCAF11
5.71888	0.265083	GY	RPIA	NC_056056.1	140515001	140535001	6.14529	0.286491	HZ	SCAF11
3.32267	0.204413	GY	RPIA	NC_056056.1	140520001	140540001	6.17349	0.293324	HZ	SCAF11
4.33512	0.216752	GY	RRAGD	NC_056056.1	140525001	140545001	4.57142	0.306615	HZ	SCAF11
2.71511	0.200518	GY	RRH	NC_056056.1	140530001	140550001	4.11905	0.302582	HZ	SCAF11
11.6111	0.298543	GY	RRN3	NC_056056.1	140535001	140555001	3.40411	0.347993	HZ	SCAF11
4.87947	0.209833	GY	RRN3	NC_056056.1	140540001	140560001	2.59694	0.302691	HZ	SCAF11
2.64122	0.213238	GY	RRP12	NC_056056.1	140545001	140565001	2.44845	0.303309	HZ	SCAF11
3.45289	0.327159	GY	RTN4RL1	NC_056056.1	140565001	140585001	2.92447	0.277449	HZ	SCAF11
2.99606	0.295449	GY	RTN4RL1	NC_056070.1	29140001	29160001	3.79497	0.298797	HZ	SCLT1
3.22183	0.204711	GY	SAMSN1	NC_056070.1	29145001	29165001	3.90532	0.378656	HZ	SCLT1
2.65053	0.230641	GY	SAP130	NC_056070.1	29150001	29170001	3.63117	0.32669	HZ	SCLT1
2.77339	0.244646	GY	SAP130	NC_056070.1	29155001	29175001	4.23708	0.302769	HZ	SCLT1
2.44569	0.272861	GY	SAP130	NC_056070.1	29160001	29180001	4.48074	0.254856	HZ	SCLT1
3.00803	0.341306	GY	SAP130	NC_056070.1	29165001	29185001	7.26696	0.213479	HZ	SCLT1
2.71221	0.321006	GY	SAP130	NC_056070.1	29170001	29190001	9.4964	0.218588	HZ	SCLT1
2.4133	0.304534	GY	SAP130	NC_056068.1	28595001	28615001	2.49308	0.333758	HZ	SCN2B
2.74877	0.209662	GY	SAP130	NC_056068.1	28600001	28620001	2.71807	0.241266	HZ	SCN2B
4.05411	0.222416	GY	SAP130	NC_056057.1	37510001	37530001	3.16167	0.210458	HZ	SEMA3A
2.9896	0.230528	GY	SAP130	NC_056064.1	53830001	53850001	11.2768	0.208204	HZ	SEPTIN9
2.96993	0.229683	GY	SAP130	NC_056080.1	18095001	18115001	3.75309	0.347484	HZ	SH3KBP1
2.5062	0.224022	GY	SAP130	NC_056080.1	18235001	18255001	2.81677	0.246594	HZ	SH3KBP1
2.50649	0.212484	GY	SAP30	NC_056080.1	18240001	18260001	3.42055	0.323094	HZ	SH3KBP1
2.83476	0.193963	GY	SAP30	NC_056080.1	18245001	18265001	8.89832	0.433574	HZ	SH3KBP1
2.45056	0.231958	GY	SAP30;SCRG1	NC_056069.1	4350001	4370001	2.50108	0.20622	HZ	SH3PXD2B
2.57562	0.322682	GY	SAR1B	NC_056069.1	4355001	4375001	6.3931	0.241422	HZ	SH3PXD2B
2.59179	0.329807	GY	SAR1B	NC_056069.1	4360001	4380001	3.92182	0.208715	HZ	SH3PXD2B
2.48345	0.316094	GY	SCAPER	NC_056074.1	44065001	44085001	3.17269	0.234198	HZ	SHANK2
3.24602	0.367526	GY	SCAPER	NC_056074.1	44070001	44090001	2.37007	0.243048	HZ	SHANK2
2.67718	0.350855	GY	SCAPER	NC_056077.1	12405001	12425001	2.40313	0.214505	HZ	SHISA9
3.32215	0.334028	GY	SCAPER	NC_056077.1	12410001	12430001	4.41133	0.29611	HZ	SHISA9
3.24952	0.353798	GY	SCLT1	NC_056077.1	12415001	12435001	10.7308	0.325632	HZ	SHISA9
3.12426	0.418542	GY	SCLT1	NC_056077.1	12420001	12440001	9.45217	0.269832	HZ	SHISA9
2.96662	0.366426	GY	SCLT1	NC_056077.1	12425001	12445001	6.25389	0.252765	HZ	SHISA9
3.44833	0.315724	GY	SCLT1	NC_056061.1	70365001	70385001	2.83174	0.251517	HZ	SHPRH
4.3436	0.212163	GY	SCLT1	NC_056061.1	70385001	70405001	2.76905	0.213244	HZ	SHPRH
7.64705	0.23177	GY	SCLT1	NC_056061.1	70390001	70410001	4.65479	0.271532	HZ	SHPRH
10.5288	0.248853	GY	SCLT1	NC_056061.1	70395001	70415001	6.95767	0.305874	HZ	SHPRH

13.05	0.238459	GY	SCLT1	NC_056061.1	70400001	70420001	7.42105	0.325675	HZ	SHPRH
2.68348	0.209865	GY	SCNN1B	NC_056061.1	70405001	70425001	4.27203	0.308067	HZ	SHPRH
2.63549	0.201199	GY	SCNN1B	NC_056074.1	25595001	25615001	6.42329	0.272247	HZ	SIAE;SPA17
2.90908	0.204203	GY	SDHAF4	NC_056068.1	27350001	27370001	2.692	0.238146	HZ	SIK3
3.00219	0.205	GY	SDHAF4	NC_056068.1	27355001	27375001	2.76049	0.218284	HZ	SIK3
5.24721	0.418739	GY	SEPTIN10	NC_056068.1	27360001	27380001	2.62882	0.220777	HZ	SIK3
4.66266	0.401679	GY	SEPTIN10	NC_056068.1	27400001	27420001	3.4129	0.229899	HZ	SIK3
5.06786	0.387123	GY	SEPTIN10	NC_056068.1	27405001	27425001	2.73423	0.288182	HZ	SIK3
5.20151	0.425177	GY	SEPTIN10	NC_056068.1	27415001	27435001	2.48533	0.219334	HZ	SIK3
5.32709	0.43286	GY	SEPTIN10	NC_056068.1	27445001	27465001	2.64706	0.244897	HZ	SIK3
5.14954	0.428967	GY	SEPTIN10	NC_056068.1	27450001	27470001	2.55474	0.227635	HZ	SIK3
7.82256	0.469866	GY	SEPTIN10	NC_056068.1	27455001	27475001	2.79747	0.220701	HZ	SIK3
10.1257	0.483914	GY	SEPTIN10	NC_056068.1	27460001	27480001	3.28499	0.220721	HZ	SIK3
7.60713	0.45415	GY	SEPTIN10	NC_056068.1	27490001	27510001	19.195	0.223075	HZ	SIK3
6.2449	0.420802	GY	SEPTIN10	NC_056068.1	27495001	27515001	8.22273	0.210273	HZ	SIK3
5.87616	0.424756	GY	SEPTIN10;SH3RF3	NC_056060.1	5070001	5090001	12.5897	0.21262	HZ	SIMC1
3.99682	0.356055	GY	SEPTIN10;SOWAH	NC_056060.1	5075001	5095001	10.6834	0.241745	HZ	SIMC1
8.63604	0.202832	GY	SEPTIN9	NC_056060.1	5080001	5100001	5.95824	0.220658	HZ	SIMC1
6.44404	0.281335	GY	SFRP1	NC_056064.1	37950001	37970001	3.92987	0.217877	HZ	SKAP1
3.17135	0.225815	GY	SGCD	NC_056064.1	37955001	37975001	5.10453	0.247251	HZ	SKAP1
4.32856	0.21707	GY	SGCD	NC_056064.1	37960001	37980001	7.12501	0.276705	HZ	SKAP1
3.90785	0.208641	GY	SGCD	NC_056064.1	37965001	37985001	6.09724	0.252337	HZ	SKAP1
3.82022	0.288109	GY	SH3GL2	NC_056064.1	37970001	37990001	3.39696	0.220097	HZ	SKAP1
2.43851	0.304869	GY	SH3GL2	NC_056057.1	70705001	70725001	2.53267	0.293842	HZ	SKAP2
2.71617	0.27142	GY	SH3KBP1	NC_056057.1	70725001	70745001	2.51916	0.290348	HZ	SKAP2
6.86442	0.535702	GY	SH3KBP1	NC_056057.1	70730001	70750001	2.52881	0.240185	HZ	SKAP2
3.37417	0.369532	GY	SH3RF3	NC_056057.1	70735001	70755001	2.59941	0.242843	HZ	SKAP2
4.19429	0.395221	GY	SH3RF3	NC_056057.1	70740001	70760001	2.76558	0.231973	HZ	SKAP2
2.68125	0.219443	GY	SHISA9	NC_056057.1	70745001	70765001	2.6088	0.249282	HZ	SKAP2
4.67365	0.325262	GY	SHISA9	NC_056057.1	70750001	70770001	3.4762	0.285198	HZ	SKAP2
10.5205	0.347012	GY	SHISA9	NC_056057.1	70755001	70775001	5.80789	0.311392	HZ	SKAP2
8.74784	0.262718	GY	SHISA9	NC_056057.1	70760001	70780001	9.14286	0.338859	HZ	SKAP2
5.67997	0.249969	GY	SHISA9	NC_056057.1	70795001	70815001	30.8143	0.570264	HZ	SKAP2
15.9524	0.216336	GY	SHROOM4	NC_056057.1	70800001	70820001	36.6571	0.561351	HZ	SKAP2
5.23934	0.205992	GY	SIK2	NC_056063.1	74950001	74970001	3.60408	0.310262	HZ	SLC15A1
2.4189	0.217594	GY	SIK3	NC_056063.1	74955001	74975001	6.51452	0.316729	HZ	SLC15A1
2.4975	0.354458	GY	SIK3	NC_056063.1	74960001	74980001	41.4592	0.326309	HZ	SLC15A1
3.09693	0.365978	GY	SIK3	NC_056063.1	74965001	74985001	16	0.277339	HZ	SLC15A1
5.65934	0.311581	GY	SIK3	NC_056063.1	74970001	74990001	6.77777	0.209906	HZ	SLC15A1
7.67582	0.322662	GY	SIK3	NC_056080.1	66625001	66645001	3.52543	0.261188	HZ	SLC16A2
9.15585	0.327137	GY	SIK3	NC_056080.1	66640001	66660001	4.29914	0.329296	HZ	SLC16A2
11.1104	0.28936	GY	SIK3	NC_056080.1	66645001	66665001	2.63718	0.264898	HZ	SLC16A2
17.4505	0.238491	GY	SIK3	NC_056066.1	46940001	46960001	2.98507	0.266349	HZ	SLC23A2
4.84692	0.303168	GY	SIK3	NC_056066.1	46945001	46965001	2.89871	0.258762	HZ	SLC23A2
3.33182	0.310163	GY	SIK3	NC_056055.1	87995001	88015001	4.64584	0.220391	HZ	SLC24A2
2.63813	0.314164	GY	SIK3	NC_056055.1	88000001	88020001	6.85976	0.225395	HZ	SLC24A2
2.44695	0.256466	GY	SIK3	NC_056072.1	51110001	51130001	3.34376	0.379121	HZ	SLC25A20
2.56863	0.240007	GY	SIK3	NC_056074.1	40830001	40850001	3.85556	0.427428	HZ	SLC29A2
2.43552	0.212925	GY	SIK3	NC_056074.1	40835001	40855001	2.73438	0.452372	HZ	SLC29A2
3.08438	0.238997	GY	SIK3	NC_056056.1	147560001	147580001	2.84097	0.234108	HZ	SLC2A13
3.45999	0.248275	GY	SIK3	NC_056056.1	147565001	147585001	3.96822	0.287964	HZ	SLC2A13
5.27387	0.230054	GY	SIMC1	NC_056056.1	147570001	147590001	9.8216	0.346102	HZ	SLC2A13
4.12935	0.222217	GY	SIMC1	NC_056056.1	147575001	147595001	14.7034	0.339179	HZ	SLC2A13
11.7331	0.200459	GY	SIMC1	NC_056056.1	147580001	147600001	22.0784	0.337536	HZ	SLC2A13
10.8571	0.264298	GY	SIMC1	NC_056056.1	147585001	147605001	12.2292	0.3003	HZ	SLC2A13
6.57802	0.281833	GY	SIMC1	NC_056055.1	119800001	119820001	2.36505	0.227789	HZ	SLC40A1
4.31507	0.256681	GY	SIMC1	NC_056055.1	147875001	147895001	4.63719	0.239657	HZ	SLC4A10
4.87853	0.201667	GY	SKAP1	NC_056067.1	23370001	23390001	2.57692	0.335072	HZ	SLC6A2
6.88792	0.219868	GY	SKAP1	NC_056067.1	23375001	23395001	2.45306	0.381119	HZ	SLC6A2
2.54799	0.279076	GY	SKAP2	NC_056067.1	35210001	35230001	2.80642	0.443367	HZ	SLC7A6
2.60626	0.218603	GY	SKAP2	NC_056067.1	35215001	35235001	2.3673	0.392486	HZ	SLC7A6
3.59047	0.197651	GY	SKAP2	NC_056067.1	42770001	42790001	4.29972	0.249263	HZ	SLC7A9
6.14778	0.25068	GY	SKAP2	NC_056067.1	42775001	42795001	3.75281	0.23339	HZ	SLC7A9
9.89474	0.261646	GY	SKAP2	NC_056067.1	42780001	42800001	8.67857	0.27931	HZ	SLC7A9
33.2143	0.301191	GY	SKAP2	NC_056067.1	42785001	42805001	2.58557	0.216406	HZ	SLC7A9
39.1571	0.308772	GY	SKAP2	NC_056065.1	54295001	54315001	6.17979	0.237845	HZ	SLC9C2
23.7841	0.322045	GY	SKAP2	NC_056056.1	194335001	194355001	7.12467	0.262494	HZ	SLCO1A2
16.5052	0.315466	GY	SKAP2	NC_056056.1	194340001	194360001	5.50452	0.266414	HZ	SLCO1A2
12.4737	0.308664	GY	SKAP2	NC_056056.1	194345001	194365001	3.87846	0.23773	HZ	SLCO1A2
8.00001	0.315964	GY	SKAP2	NC_056063.1	61310001	61330001	2.48526	0.268819	HZ	SLITRK6
4.67935	0.192448	GY	SLC15A5	NC_056063.1	61315001	61335001	3.62409	0.297419	HZ	SLITRK6
6.02431	0.194525	GY	SLC15A5	NC_056063.1	61320001	61340001	2.83798	0.20558	HZ	SLITRK6
4.9364	0.200288	GY	SLC15A5	NC_056070.1	12785001	12805001	5.42256	0.209556	HZ	SMAD1
2.71111	0.26511	GY	SLC16A2	NC_056070.1	12790001	12810001	6.93348	0.218437	HZ	SMAD1

2.85384	0.231366	GY	SLC16A2	NC_056070.1	12795001	12815001	6.39182	0.23402	HZ	SMAD1
3.38984	0.238229	GY	SLC16A2	NC_056080.1	51250001	51270001	2.61445	0.24284	HZ	SMC1A
3.44444	0.272646	GY	SLC16A2	NC_056080.1	51255001	51275001	2.64458	0.26236	HZ	SMC1A
3.21884	0.201004	GY	SLC22A3	NC_056055.1	66305001	66325001	3.591	0.363857	HZ	SMC5
3.45297	0.2014	GY	SLC22A3	NC_056055.1	66310001	66330001	3.44613	0.393698	HZ	SMC5
3.44562	0.211903	GY	SLC23A2	NC_056055.1	66315001	66335001	3.40865	0.413222	HZ	SMC5
3.22598	0.214039	GY	SLC23A2	NC_056055.1	66320001	66340001	3.29946	0.409271	HZ	SMC5
3.19464	0.260584	GY	SLC25A43	NC_056055.1	66325001	66345001	2.87179	0.414874	HZ	SMC5
4.23888	0.361337	GY	SLC29A2	NC_056080.1	100055001	100075001	2.90942	0.253729	HZ	SMIM10
4.08595	0.289658	GY	SLC29A2	NC_056059.1	35550001	35570001	3.5006	0.209756	HZ	SNCA
3.31631	0.194881	GY	SLC29A2	NC_056057.1	93780001	93800001	2.41983	0.229445	HZ	SND1
2.49592	0.227689	GY	SLC2A1	NC_056057.1	93790001	93810001	3.81913	0.408497	HZ	SND1
6.79658	0.208263	GY	SLC2A13	NC_056057.1	93795001	93815001	6.62384	0.48119	HZ	SND1
12.1287	0.220815	GY	SLC2A13	NC_056057.1	93800001	93820001	2.42084	0.326432	HZ	SND1
6.51539	0.206538	GY	SLC2A13	NC_056062.1	93665001	93685001	10.2789	0.299931	HZ	SNX16
5.72193	0.212778	GY	SLC2A13	NC_056062.1	93670001	93690001	5.8395	0.222891	HZ	SNX16
2.46904	0.249336	GY	SLC39A11;SSSTR2	NC_056059.1	114715001	114735001	3.83194	0.248501	HZ	SORCS2
3.00699	0.211484	GY	SLC6A2	NC_056059.1	114720001	114740001	3.63619	0.256838	HZ	SORCS2
3.13673	0.243004	GY	SLC6A2	NC_056059.1	114725001	114745001	3.15551	0.240747	HZ	SORCS2
2.69257	0.193844	GY	SLC7A6	NC_056058.1	42055001	42075001	4.33334	0.229664	HZ	SOWAHA
3.66349	0.239235	GY	SLC7A6	NC_056056.1	191665001	191685001	2.62767	0.261494	HZ	SOX5
3.02415	0.193948	GY	SLC7A6	NC_056056.1	191670001	191690001	3.35533	0.282435	HZ	SOX5
3.98034	0.426838	GY	SLC7A8	NC_056056.1	191675001	191695001	4.67747	0.295226	HZ	SOX5
2.69313	0.222005	GY	SLC7A8	NC_056056.1	191680001	191700001	7.58536	0.309361	HZ	SOX5
3.5101	0.22338	GY	SLC7A8	NC_056056.1	191685001	191705001	18.3313	0.323088	HZ	SOX5
4.22466	0.342718	GY	SLC7A9	NC_056056.1	191690001	191710001	7.41984	0.2948	HZ	SOX5
3.60257	0.365472	GY	SLC7A9	NC_056056.1	191695001	191715001	3.40611	0.237382	HZ	SOX5
8.50511	0.425224	GY	SLC7A9	NC_056056.1	191990001	192010001	2.42378	0.233013	HZ	SOX5
2.39931	0.25769	GY	SLC7A9;TDRD12	NC_056056.1	191995001	192015001	2.41083	0.246102	HZ	SOX5
5.95066	0.253475	GY	SLCO1A2	NC_056064.1	24070001	24090001	5.69718	0.220764	HZ	SPATA22
4.70062	0.235786	GY	SLCO1A2	NC_056056.1	69480001	69500001	4.10224	0.211168	HZ	SPTBN1
3.51157	0.200757	GY	SLCO1A2	NC_056058.1	79025001	79045001	2.36955	0.233416	HZ	SSBP2
4.20994	0.232367	GY	SMG1	NC_056057.1	52670001	52690001	6.5	0.205161	HZ	ST7
4.46753	0.239779	GY	SMG1	NC_056057.1	52675001	52695001	4.88178	0.212068	HZ	ST7
3.79905	0.291617	GY	SMG1	NC_056057.1	52715001	52735001	2.49481	0.206536	HZ	ST7
3.3077	0.288756	GY	SMG1	NC_056057.1	52855001	52875001	19.5797	0.213049	HZ	ST7
3.25727	0.357253	GY	SMG1	NC_056057.1	52860001	52880001	19.9999	0.215585	HZ	ST7
2.92032	0.338572	GY	SMG1	NC_056057.1	52865001	52885001	11.5929	0.210689	HZ	ST7
2.69903	0.234377	GY	SMG1	NC_056063.1	28315001	28335001	4.21557	0.260382	HZ	STARD13
14.8181	0.192948	GY	SNTB2	NC_056057.1	51580001	51600001	2.42181	0.222376	HZ	STARD3NL
14.2	0.23807	GY	SNTB2	NC_056080.1	61620001	61640001	4.07868	0.209028	HZ	STARD8
6.46789	0.278151	GY	SNTB2	NC_056062.1	49835001	49855001	2.66101	0.209075	HZ	STAU2
2.64427	0.255714	GY	SNTB2	NC_056062.1	49840001	49860001	3.04824	0.232746	HZ	STAU2
2.83249	0.273703	GY	SOX5	NC_056062.1	49845001	49865001	2.97029	0.211066	HZ	STAU2
9.72639	0.225045	GY	SOX5	NC_056057.1	73980001	74000001	4.19755	0.254439	HZ	STEAP4
2.96774	0.204841	GY	SOX5	NC_056057.1	73985001	74005001	10.4831	0.372928	HZ	STEAP4
3.52256	0.242483	GY	SOX5	NC_056057.1	73990001	74010001	19.471	0.355913	HZ	STEAP4
2.72789	0.256397	GY	SOX5	NC_056057.1	73995001	74015001	4.87244	0.305833	HZ	STEAP4
2.50077	0.262362	GY	SOX5	NC_056057.1	74000001	74020001	2.86393	0.273103	HZ	STEAP4
2.48859	0.252754	GY	SOX5	NC_056063.1	74840001	74860001	4.36718	0.216743	HZ	STK24
2.75748	0.312207	GY	SOX5	NC_056063.1	74845001	74865001	5.09452	0.234104	HZ	STK24
3.55622	0.334839	GY	SOX5	NC_056079.1	13635001	13655001	14.4327	0.323173	HZ	STOX2
4.97269	0.353191	GY	SOX5	NC_056079.1	13645001	13665001	15.6818	0.31916	HZ	STOX2
8.05366	0.377023	GY	SOX5	NC_056079.1	13650001	13670001	5.06849	0.207223	HZ	STOX2
19.6265	0.391873	GY	SOX5	NC_056079.1	13770001	13790001	5.1145	0.244202	HZ	STOX2
7.82951	0.351377	GY	SOX5	NC_056079.1	13775001	13795001	6.91032	0.308963	HZ	STOX2
3.4242	0.277413	GY	SOX5	NC_056079.1	13780001	13800001	3.43985	0.36392	HZ	STOX2
3.48742	0.220125	GY	SPAG6	NC_056079.1	13785001	13805001	2.66164	0.350932	HZ	STOX2
11.268	0.289921	GY	SPATA13	NC_056058.1	14220001	14240001	7.3689	0.296224	HZ	STXBP2
32.8	0.24768	GY	SPATA13	NC_056057.1	82040001	82060001	2.41964	0.22151	HZ	SUGCT
33.7663	0.228332	GY	SPATA13	NC_056057.1	82045001	82065001	3.63925	0.355159	HZ	SUGCT
27.4905	0.219818	GY	SPATA13	NC_056057.1	82070001	82090001	4.24999	0.263266	HZ	SUGCT
12.9217	0.19474	GY	SPATA13	NC_056057.1	82075001	82095001	3.55487	0.224963	HZ	SUGCT
12.8726	0.343652	GY	SPCS3	NC_056057.1	82080001	82100001	3.23115	0.220118	HZ	SUGCT
45.6714	0.232384	GY	SPDL1	NC_056057.1	82085001	82105001	3.56288	0.212873	HZ	SUGCT
25.537	0.256767	GY	SPDL1	NC_056057.1	82395001	82415001	7.90475	0.264032	HZ	SUGCT
9.19198	0.247766	GY	SPDL1	NC_056057.1	82415001	82435001	5.62151	0.237287	HZ	SUGCT
2.42601	0.234656	GY	SPINK5	NC_056062.1	46330001	46350001	19.0714	0.252566	HZ	SULF1
2.44658	0.260763	GY	SPIRE2;TCF25	NC_056062.1	46335001	46355001	12.7302	0.301746	HZ	SULF1
2.73214	0.246862	GY	SPIRE2;TCF25	NC_056062.1	46340001	46360001	6.92414	0.440093	HZ	SULF1
7.34044	0.311612	GY	SPON2	NC_056062.1	46345001	46365001	4.52747	0.393804	HZ	SULF1
7.36701	0.269271	GY	SPON2	NC_056062.1	46350001	46370001	2.7802	0.319298	HZ	SULF1
14.0543	0.20751	GY	SPP1	NC_056062.1	46355001	46375001	2.44843	0.271062	HZ	SULF1
21.3204	0.261791	GY	SPTLC2	NC_056054.1	100010001	100030001	2.55453	0.286447	HZ	SV2A



3.57896	0.226923	GY	SRRM4	NC_056060.1	7545001	7565001	2.82385	0.262088	HZ	SV2C
2.8248	0.275683	GY	SRRM4	NC_056060.1	7550001	7570001	3.02633	0.274564	HZ	SV2C
3.77915	0.213081	GY	SRRM4	NC_056068.1	42660001	42680001	3.96895	0.242254	HZ	SWAP70
8.6078	0.236845	GY	SRRM4	NC_056068.1	42665001	42685001	2.99303	0.226258	HZ	SWAP70
25.9892	0.270575	GY	SRRM4	NC_056056.1	176790001	176810001	4.97048	0.365006	HZ	SYN3
8.99999	0.291779	GY	SRRM4	NC_056056.1	176795001	176815001	6.0787	0.356048	HZ	SYN3
4.56419	0.243437	GY	SRRM4	NC_056056.1	176835001	176855001	3.4123	0.272415	HZ	SYN3
2.92764	0.202416	GY	SRRM4	NC_056056.1	176840001	176860001	3.91666	0.301387	HZ	SYN3
4.55898	0.225153	GY	SSPN	NC_056056.1	176845001	176865001	2.91978	0.330798	HZ	SYN3
6.29592	0.230484	GY	SSPN	NC_056056.1	176900001	176920001	2.47213	0.235668	HZ	SYN3
5.85246	0.229606	GY	SSPN	NC_056056.1	176910001	176930001	2.68422	0.251729	HZ	SYN3
5.85424	0.219047	GY	SSPN	NC_056056.1	176915001	176935001	3.60725	0.272145	HZ	SYN3
3.99701	0.396061	GY	STARD13	NC_056056.1	176920001	176940001	3.53624	0.279355	HZ	SYN3
2.51418	0.238476	GY	STARD3NL	NC_056056.1	176925001	176945001	3.70297	0.286993	HZ	SYN3
2.70972	0.236695	GY	STARD3NL	NC_056061.1	76960001	76980001	2.92172	0.206512	HZ	SYNE1
4.45099	0.20121	GY	STEAP4	NC_056061.1	76965001	76985001	3.65181	0.218243	HZ	SYNE1
5.43721	0.206423	GY	STEAP4	NC_056061.1	76970001	76990001	12.2443	0.237556	HZ	SYNE1
8.97073	0.229643	GY	STEAP4	NC_056058.1	59720001	59740001	16.8545	0.208929	HZ	SYNPO
15.2609	0.311266	GY	STEAP4	NC_056056.1	115280001	115300001	2.71193	0.231552	HZ	SYT1
17.6521	0.335022	GY	STEAP4	NC_056056.1	115445001	115465001	2.72607	0.452589	HZ	SYT1
4.60519	0.341801	GY	STEAP4	NC_056061.1	82810001	82830001	6.13872	0.453039	HZ	SYTL3
2.53865	0.327817	GY	STEAP4	NC_056061.1	82825001	82845001	10.6898	0.264482	HZ	SYTL3
2.89291	0.215551	GY	STK31	NC_056062.1	94175001	94195001	6.62778	0.251794	HZ	TAF2
2.6831	0.231038	GY	STK31	NC_056066.1	6855001	6875001	5.28985	0.242158	HZ	TASP1
2.66667	0.193242	GY	STK31	NC_056066.1	6860001	6880001	17.942	0.323861	HZ	TASP1
2.51163	0.290946	GY	STK31	NC_056066.1	6865001	6885001	16.1399	0.330386	HZ	TASP1
2.52395	0.264891	GY	STK31	NC_056066.1	6870001	6890001	8.7	0.292481	HZ	TASP1
2.52273	0.255331	GY	STK31	NC_056066.1	6875001	6895001	3.62408	0.215439	HZ	TASP1
15.4904	0.261162	GY	STOX2	NC_056075.1	15525001	15545001	3.08541	0.208794	HZ	TBC1D12
17.5	0.266655	GY	STOX2	NC_056075.1	15530001	15550001	3.31614	0.218	HZ	TBC1D12
5.16031	0.210296	GY	STOX2	NC_056075.1	15535001	15555001	3.5993	0.231916	HZ	TBC1D12
7.33152	0.236944	GY	STOX2	NC_056075.1	15540001	15560001	3.92415	0.246734	HZ	TBC1D12
4.01606	0.220363	GY	STOX2	NC_056075.1	15545001	15565001	3.74658	0.244098	HZ	TBC1D12
3.13477	0.264214	GY	STPG2	NC_056075.1	15550001	15570001	3.9056	0.238177	HZ	TBC1D12
4.30632	0.303124	GY	STPG2	NC_056075.1	15555001	15575001	3.71605	0.232891	HZ	TBC1D12
7.02481	0.381311	GY	STPG2	NC_056056.1	107910001	107930001	4.14568	0.225838	HZ	TBC1D15
6.59183	0.391386	GY	STPG2	NC_056056.1	107975001	107995001	8.81821	0.25874	HZ	TBC1D15
6.21707	0.398285	GY	STPG2	NC_056056.1	107980001	108000001	10.8626	0.274206	HZ	TBC1D15
5.70589	0.403015	GY	STPG2	NC_056056.1	107985001	108005001	12.2069	0.282613	HZ	TBC1D15
4.70101	0.400256	GY	STPG2	NC_056059.1	46685001	46705001	2.6709	0.22203	HZ	TBC1D19
4.90953	0.412208	GY	STPG2	NC_056059.1	46690001	46710001	3.13576	0.267505	HZ	TBC1D19
5.23531	0.413283	GY	STPG2	NC_056054.1	275230001	275250001	2.78387	0.22487	HZ	TBC1D5
4.7	0.390915	GY	STPG2	NC_056054.1	275235001	275255001	3.05524	0.237584	HZ	TBC1D5
3.51091	0.355938	GY	STPG2	NC_056060.1	8860001	8880001	2.70814	0.207908	HZ	TBCA
5.63202	0.376964	GY	STPG2	NC_056060.1	8885001	8905001	3.46454	0.224067	HZ	TBCA
3.31124	0.238247	GY	STPG2	NC_056060.1	8910001	8930001	3.52421	0.214447	HZ	TBCA
3.04625	0.2005	GY	SUGCT	NC_056061.1	52065001	52085001	4.36666	0.242076	HZ	TBX18
3.45663	0.308381	GY	SUGCT	NC_056060.1	51240001	51260001	2.39181	0.21814	HZ	TCF12
3.99686	0.233363	GY	SUGCT	NC_056060.1	51245001	51265001	2.52	0.303155	HZ	TCF12
2.46333	0.266511	GY	SYT10	NC_056060.1	51250001	51270001	2.61905	0.322962	HZ	TCF12
2.49332	0.266862	GY	SYT10	NC_056060.1	51255001	51275001	2.41964	0.358413	HZ	TCF12
2.42708	0.25474	GY	SYT10	NC_056060.1	51315001	51335001	2.49655	0.368376	HZ	TCF12
3.6551	0.211854	GY	SYT10	NC_056060.1	51350001	51370001	3.44361	0.234113	HZ	TCF12
3.67411	0.240667	GY	SYT10	NC_056060.1	51355001	51375001	3.12698	0.223417	HZ	TCF12
3.48115	0.256323	GY	SYT10	NC_056060.1	51475001	51495001	3.18367	0.235116	HZ	TCF12
2.96638	0.250931	GY	SYT10	NC_056060.1	51480001	51500001	3.40178	0.256148	HZ	TCF12
6.37902	0.327829	GY	SYTL5	NC_056060.1	51485001	51505001	2.36735	0.300466	HZ	TCF12
2.7547	0.217577	GY	TAB2	NC_056060.1	51505001	51525001	2.3522	0.323662	HZ	TCF12
3.20229	0.243915	GY	TAB2	NC_056060.1	51510001	51530001	2.78571	0.309316	HZ	TCF12
3.13694	0.233191	GY	TAB2	NC_056060.1	51515001	51535001	3.40177	0.304648	HZ	TCF12
3.50383	0.221808	GY	TAB2	NC_056060.1	51520001	51540001	3.04676	0.319314	HZ	TCF12
4.40085	0.233358	GY	TBC1D1	NC_056056.1	57005001	57025001	2.36552	0.253972	HZ	TCF7L1
5.485	0.316801	GY	TBC1D1	NC_056056.1	57025001	57045001	3.26641	0.246812	HZ	TCF7L1
2.89482	0.267988	GY	TBC1D1	NC_056056.1	57030001	57050001	3.43167	0.313023	HZ	TCF7L1
3.36508	0.222106	GY	TBC1D22A	NC_056055.1	50215001	50235001	22.151	0.36641	HZ	TDRD7
3.36454	0.253793	GY	TBC1D22A	NC_056055.1	50250001	50270001	3.65903	0.468369	HZ	TDRD7
2.74037	0.221379	GY	TBC1D22A	NC_056059.1	80525001	80545001	3.41538	0.260202	HZ	TECRL
5.62636	0.197687	GY	TBC1D22A	NC_056059.1	80530001	80550001	5.61623	0.283863	HZ	TECRL
7.83552	0.212193	GY	TBC1D22A	NC_056059.1	80535001	80555001	6.30051	0.288466	HZ	TECRL
10.7138	0.232027	GY	TBC1D32	NC_056059.1	80540001	80560001	6.56618	0.300104	HZ	TECRL
10.9518	0.227696	GY	TBC1D32	NC_056059.1	80545001	80565001	4.32461	0.286587	HZ	TECRL
2.81204	0.29856	GY	TBC1D5	NC_056059.1	80550001	80570001	3.08678	0.266073	HZ	TECRL
4.00627	0.261414	GY	TBC1D5	NC_056080.1	109000001	109020001	7.31818	0.266859	HZ	TENM1
2.90226	0.247719	GY	TCF12	NC_056080.1	109005001	109025001	5.70454	0.218275	HZ	TENM1

2.65873	0.260287	GY	TCF12	NC_056054.1	20065001	20085001	3.67841	0.213657	HZ	TESK2
2.88888	0.203519	GY	TCF12	NC_056078.1	24185001	24205001	2.6566	0.334823	HZ	TET1
2.65476	0.240005	GY	TCF12	NC_056078.1	24200001	24220001	3.01111	0.506566	HZ	TET1
2.91667	0.331995	GY	TCF12	NC_056078.1	24230001	24250001	2.55985	0.359001	HZ	TET1
2.75892	0.328895	GY	TCF12	NC_056078.1	24235001	24255001	3.83908	0.390741	HZ	TET1
2.741	0.301663	GY	TCF12	NC_056078.1	24240001	24260001	5.20001	0.439831	HZ	TET1
2.47683	0.275199	GY	TCF25	NC_056078.1	24245001	24265001	10.4253	0.431697	HZ	TET1
3.83269	0.200552	GY	TCF7L1	NC_056078.1	24250001	24270001	12.35	0.408109	HZ	TET1
3.94453	0.214638	GY	TCF7L1	NC_056054.1	256195001	256215001	2.4515	0.311949	HZ	TF
2.44159	0.226539	GY	TCF7L1	NC_056057.1	53890001	53910001	12.0455	0.212367	HZ	TFEC
2.54515	0.269282	GY	TDRD15	NC_056057.1	53895001	53915001	12.5711	0.219588	HZ	TFEC
4.25788	0.365985	GY	TDRD7	NC_056057.1	53905001	53925001	4.84082	0.209003	HZ	TFEC
2.95361	0.204299	GY	TENM1	NC_056057.1	53960001	53980001	2.56697	0.387755	HZ	TFEC
4.33043	0.263808	GY	TENM1	NC_056057.1	53965001	53985001	6.75107	0.436124	HZ	TFEC
11.7386	0.317685	GY	TENM1	NC_056057.1	53970001	53990001	15.7305	0.387158	HZ	TFEC
7.71969	0.345334	GY	TENM1	NC_056057.1	54000001	54020001	12.7428	0.333373	HZ	TFEC
2.97035	0.382662	GY	TENM1	NC_056062.1	21300001	21320001	10.0308	0.233914	HZ	TG
2.93271	0.35749	GY	TENM1	NC_056054.1	68990001	69010001	2.63677	0.229913	HZ	TGFBR3
4.41177	0.286263	GY	TENM1	NC_056076.1	38000001	38020001	7.17425	0.294036	HZ	TGIF1
4.60097	0.253138	GY	TENM1	NC_056076.1	38005001	38025001	5.8106	0.274473	HZ	TGIF1
4.05289	0.2317	GY	TESC	NC_056076.1	38010001	38030001	5.9394	0.309035	HZ	TGIF1
4.19246	0.212141	GY	TET1	NC_056076.1	38015001	38035001	7.21429	0.382295	HZ	TGIF1
6.63888	0.315215	GY	TET1	NC_056056.1	80905001	80925001	4.61496	0.209954	HZ	THADA
4.37089	0.294397	GY	TET1	NC_056056.1	80910001	80930001	25.8286	0.234336	HZ	THADA
3.28621	0.284776	GY	TET1	NC_056056.1	80930001	80950001	12.3241	0.273963	HZ	THADA
2.49619	0.217263	GY	TET1	NC_056061.1	53185001	53205001	2.87986	0.219992	HZ	THEMIS
2.57217	0.246894	GY	TET1	NC_056061.1	53220001	53240001	2.46259	0.243554	HZ	THEMIS
3.78161	0.240744	GY	TET1	NC_056061.1	53225001	53245001	2.61943	0.340353	HZ	THEMIS
5.4339	0.246225	GY	TET1	NC_056061.1	53230001	53250001	2.67428	0.319951	HZ	THEMIS
10.8433	0.238584	GY	TET1	NC_056075.1	17685001	17705001	4.25001	0.209182	HZ	TM9SF3
12.77	0.257629	GY	TET1	NC_056075.1	17690001	17710001	7.03721	0.244858	HZ	TM9SF3
3.15436	0.41003	GY	TEX11	NC_056060.1	4460001	4480001	7.55999	0.221824	HZ	TMED7
4.89164	0.448576	GY	TEX11	NC_056055.1	22585001	22605001	2.81306	0.272336	HZ	TMEFF1
2.65099	0.428299	GY	TEX11	NC_056055.1	22590001	22610001	3.80543	0.372018	HZ	TMEFF1
3.0126	0.426974	GY	TEX22	NC_056055.1	22595001	22615001	3.70386	0.359394	HZ	TMEFF1
3.05504	0.287019	GY	TFEC	NC_056055.1	22600001	22620001	3.68307	0.350965	HZ	TMEFF1
7.51964	0.294375	GY	TFEC	NC_056055.1	22605001	22625001	3.06887	0.312833	HZ	TMEFF1
15.8087	0.275766	GY	TFEC	NC_056054.1	256915001	256935001	2.52632	0.296617	HZ	TMEM108
12	0.250606	GY	TFEC	NC_056054.1	25692001	256940001	3.2231	0.268421	HZ	TMEM108
10.04	0.19968	GY	TG	NC_056054.1	256925001	256945001	2.92157	0.301187	HZ	TMEM108
12.6747	0.290203	GY	THADA	NC_056054.1	256930001	256950001	2.52338	0.307789	HZ	TMEM108
2.7007	0.241071	GY	THADA	NC_056054.1	256935001	256955001	2.71821	0.328837	HZ	TMEM108
2.48308	0.232664	GY	THSD4	NC_056056.1	104100001	104120001	3.352	0.225064	HZ	TMEM127
3.81734	0.298519	GY	THSD4	NC_056074.1	36430001	36450001	2.48956	0.207925	HZ	TMEM138;TMEM216
4.64807	0.341859	GY	THSD4	NC_056056.1	98990001	99010001	3.05185	0.227614	HZ	TMEM182
3.45821	0.299996	GY	THSD4	NC_056056.1	99005001	99025001	3.64093	0.236606	HZ	TMEM182
2.58863	0.216141	GY	TIAM1	NC_056056.1	99010001	99030001	2.52697	0.328892	HZ	TMEM182
3.05927	0.242929	GY	TIAM1	NC_056056.1	99015001	99035001	2.90548	0.431513	HZ	TMEM182
3.058	0.248972	GY	TIAM1	NC_056056.1	99020001	99040001	2.36569	0.459143	HZ	TMEM182
2.59108	0.195194	GY	TIAM1	NC_056080.1	86155001	86175001	3.2561	0.209037	HZ	TMEM185A
3.51524	0.202543	GY	TLK2	NC_056057.1	90050001	90070001	3.10547	0.213596	HZ	TMEM229A
5.45448	0.220131	GY	TLK2	NC_056057.1	90055001	90075001	3.32143	0.218345	HZ	TMEM229A
3.94897	0.20885	GY	TMEFF1	NC_056061.1	55470001	55490001	2.48119	0.218808	HZ	TMEM244
4.17355	0.236641	GY	TMEFF1	NC_056061.1	55475001	55495001	2.90877	0.226445	HZ	TMEM244
3.86315	0.214725	GY	TMEFF1	NC_056060.1	86540001	86560001	12.5101	0.262678	HZ	TMEM63C
3.62775	0.232663	GY	TMEM117	NC_056055.1	50080001	50100001	5.79799	0.275373	HZ	TMOD1
5.86447	0.262902	GY	TMEM117	NC_056056.1	168255001	168275001	3.58786	0.215051	HZ	TMPO
9.29293	0.239528	GY	TMEM117	NC_056056.1	168260001	168280001	6.10524	0.269346	HZ	TMPO
6.08099	0.233169	GY	TMEM117	NC_056056.1	168265001	168285001	4.69389	0.264092	HZ	TMPO
5.7339	0.218426	GY	TMEM117	NC_056056.1	168270001	168290001	3.07635	0.224586	HZ	TMPO
2.54888	0.203904	GY	TMEM117	NC_056055.1	8645001	8665001	2.48799	0.215324	HZ	TNC
3.14718	0.193053	GY	TMEM178A	NC_056055.1	8650001	8670001	4.39742	0.240143	HZ	TNC
2.45276	0.200236	GY	TMEM178A	NC_056055.1	8655001	8675001	3.52495	0.216722	HZ	TNC
2.57232	0.208328	GY	TMEM178A	NC_056065.1	40070001	40090001	2.57983	0.23383	HZ	TNFSF4
3.25025	0.235335	GY	TMEM182	NC_056055.1	8875001	8895001	4.95203	0.24684	HZ	TNFSF8
2.56676	0.236246	GY	TMEM182	NC_056055.1	8880001	8900001	2.66593	0.222999	HZ	TNFSF8
3.38023	0.321221	GY	TMEM182	NC_056058.1	60085001	60105001	2.37159	0.207155	HZ	TNIP1
2.93968	0.330775	GY	TMEM182	NC_056058.1	60090001	60110001	2.85893	0.245088	HZ	TNIP1
3.76223	0.237263	GY	TMEM248	NC_056058.1	60095001	60115001	2.8233	0.258851	HZ	TNIP1
2.67983	0.227965	GY	TMEM248	NC_056057.1	76510001	76530001	2.69966	0.223034	HZ	TNS3
3.80191	0.251741	GY	TMEM251	NC_056064.1	34355001	34375001	2.44023	0.406965	HZ	TOM1L2
2.81981	0.335504	GY	TMEM71	NC_056064.1	34360001	34380001	2.47084	0.419928	HZ	TOM1L2
5.79799	0.341878	GY	TMOD1	NC_056056.1	107990001	108010001	12.7586	0.286674	HZ	TPH2
3.8	0.46234	GY	TMPRSS13	NC_056056.1	107995001	108015001	19.2903	0.301037	HZ	TPH2

5.09795	0.410773	GY	TMPRSS13	NC_056056.1	108000001	108020001	12.3312	0.291404	HZ	TPH2
3.53025	0.293382	GY	TMPRSS13	NC_056056.1	108005001	108025001	9.56865	0.272792	HZ	TPH2
2.93634	0.291904	GY	TMPRSS13	NC_056056.1	108010001	108030001	5.30633	0.238328	HZ	TPH2
2.41547	0.235668	GY	TMPRSS13	NC_056056.1	108020001	108040001	4.99709	0.228828	HZ	TPH2
3.67414	0.204925	GY	TMPRSS13	NC_056056.1	108025001	108045001	4.12345	0.211189	HZ	TPH2
2.40567	0.290563	GY	TMTC2	NC_056056.1	108030001	108050001	4.99999	0.234809	HZ	TPH2
3.26315	0.265352	GY	TMTC2	NC_056056.1	108035001	108055001	7.2	0.259965	HZ	TPH2
2.42243	0.199531	GY	TMTC2	NC_056056.1	108040001	108060001	6.11441	0.254631	HZ	TPH2
2.59407	0.192221	GY	TNC	NC_056056.1	108045001	108065001	7.58457	0.270098	HZ	TPH2
2.52941	0.343609	GY	TNFSF4	NC_056056.1	108050001	108070001	11.1176	0.284647	HZ	TPH2
4.47485	0.475887	GY	TNFSF8	NC_056056.1	108055001	108075001	9.50944	0.278578	HZ	TPH2
2.50403	0.391858	GY	TNFSF8	NC_056056.1	108060001	108080001	9.59889	0.27795	HZ	TPH2
3.2368	0.235863	GY	TNPO1	NC_056056.1	108065001	108085001	10.4683	0.2729	HZ	TPH2
2.94565	0.20672	GY	TNPO1	NC_056056.1	108070001	108090001	6.05357	0.242978	HZ	TPH2
9.15731	0.267106	GY	TPR	NC_056056.1	108075001	108095001	5.9496	0.22993	HZ	TPH2
5.18816	0.207342	GY	TRAPPC9	NC_056057.1	108895001	108915001	5.94217	0.268774	HZ	TPK1
5.12068	0.213323	GY	TRAPPC9	NC_056057.1	108900001	108920001	7.55619	0.300469	HZ	TPK1
3.20748	0.217858	GY	TRHDE	NC_056057.1	108905001	108925001	40.4706	0.302637	HZ	TPK1
4.14277	0.208128	GY	TRHDE	NC_056057.1	108965001	108985001	19	0.275897	HZ	TPK1
7.67244	0.20986	GY	TRHDE	NC_056057.1	108970001	108990001	8.06873	0.219334	HZ	TPK1
8.53521	0.277191	GY	TRHDE	NC_056057.1	109035001	109055001	2.51918	0.235389	HZ	TPK1
3.65647	0.233279	GY	TRHDE	NC_056057.1	109040001	109060001	3.99307	0.317545	HZ	TPK1
20.7767	0.341782	GY	TRIM60	NC_056057.1	109045001	109065001	3.39143	0.233839	HZ	TPK1
18.7192	0.310624	GY	TRIM60	NC_056065.1	66845001	66865001	9.3764	0.378328	HZ	TPR
12.6667	0.317976	GY	TRIM60	NC_056065.1	66850001	66870001	3.49718	0.344131	HZ	TPR
8.53804	0.313567	GY	TRIM60	NC_056079.1	13575001	13595001	7.63999	0.270995	HZ	TRAPPC11
2.7619	0.254694	GY	TRPS1	NC_056079.1	13605001	13625001	3.21818	0.213089	HZ	TRAPPC11
2.74759	0.224603	GY	TSC22D3	NC_056062.1	16155001	16175001	2.63741	0.214648	HZ	TRAPPC9
2.73942	0.22395	GY	TSC22D3	NC_056062.1	16430001	16450001	5.26638	0.247884	HZ	TRAPPC9
3.38805	0.215489	GY	TSC22D3	NC_056062.1	16435001	16455001	5.03066	0.271086	HZ	TRAPPC9
20.2935	0.312642	GY	TSGA10	NC_056062.1	16440001	16460001	2.46429	0.268988	HZ	TRAPPC9
18.9646	0.310346	GY	TSGA10	NC_056080.1	44320001	44340001	13.6893	0.680685	HZ	TRIM60
20.8149	0.282965	GY	TSGA10	NC_056080.1	44325001	44345001	14.0617	0.630599	HZ	TRIM60
21.4285	0.216378	GY	TSGA10	NC_056080.1	44330001	44350001	9.54762	0.512176	HZ	TRIM60
8.20124	0.203218	GY	TSGA10	NC_056080.1	44335001	44355001	6.89673	0.390295	HZ	TRIM60
3.32375	0.204389	GY	TSGA10	NC_056062.1	48585001	48605001	2.96955	0.208795	HZ	TRPA1
3.91316	0.262028	GY	TSGA10	NC_056062.1	48590001	48610001	5.88286	0.302404	HZ	TRPA1
5.72696	0.306886	GY	TSGA10	NC_056062.1	48595001	48615001	7.76571	0.319858	HZ	TRPA1
5.47227	0.295856	GY	TSGA10	NC_056062.1	48600001	48620001	7.6008	0.328614	HZ	TRPA1
5.84097	0.221171	GY	TSGA10	NC_056062.1	48605001	48625001	4.21459	0.278439	HZ	TRPA1
7.56837	0.216554	GY	TSGA10	NC_056074.1	45555001	45575001	2.92019	0.242524	HZ	TRPM5;TSSC4
7.83376	0.217694	GY	TSGA10	NC_056062.1	61965001	61985001	8.69525	0.225308	HZ	TRPS1
12.4454	0.24015	GY	TSGA10	NC_056073.1	26010001	26030001	5.96669	0.28143	HZ	TSBP1
2.51011	0.240646	GY	TSPAN5	NC_056073.1	26015001	26035001	5.85483	0.286023	HZ	TSBP1
3.6236	0.285862	GY	TSPAN5	NC_056073.1	26020001	26040001	3.45941	0.243723	HZ	TSBP1
3.06328	0.285455	GY	TSPAN5	NC_056056.1	102175001	102195001	10.7717	0.264744	HZ	TSGA10
2.78505	0.274266	GY	TSPAN5	NC_056056.1	102180001	102200001	13.9557	0.286444	HZ	TSGA10
3.67026	0.272249	GY	TSPAN7	NC_056056.1	102185001	102205001	14.6593	0.292007	HZ	TSGA10
6.30434	0.348711	GY	TSPAN7	NC_056056.1	102195001	102215001	17.5535	0.299096	HZ	TSGA10
5.25851	0.330467	GY	TSPAN7	NC_056056.1	102200001	102220001	5.86068	0.263462	HZ	TSGA10
7.59524	0.275	GY	TSPAN7	NC_056057.1	86910001	86930001	3.875	0.21677	HZ	TSPAN12
5.49391	0.317703	GY	TSPAN7	NC_056057.1	86915001	86935001	2.59091	0.24116	HZ	TSPAN12
2.46429	0.222093	GY	TTC9C;ZBTB3	NC_056059.1	26650001	26670001	2.35627	0.314403	HZ	TSPAN5
2.73921	0.244204	GY	TTL5	NC_056059.1	26655001	26675001	3.40958	0.352578	HZ	TSPAN5
2.80468	0.229755	GY	TTL5	NC_056059.1	26660001	26680001	2.9298	0.322426	HZ	TSPAN5
16.1454	0.207765	GY	TTL8	NC_056059.1	26665001	26685001	2.71145	0.286483	HZ	TSPAN5
2.84759	0.223869	GY	TUT7	NC_056080.1	38090001	38110001	3.0388	0.323065	HZ	TSPAN7
3.73451	0.292414	GY	TUT7	NC_056080.1	38095001	38115001	5.77257	0.388594	HZ	TSPAN7
25.5185	0.19617	GY	TXNDC8	NC_056080.1	38130001	38150001	5.80952	0.374428	HZ	TSPAN7
25.6219	0.224315	GY	TXNDC8	NC_056080.1	38135001	38155001	2.52125	0.247394	HZ	TSPAN7
24.7828	0.260451	GY	TXNDC8	NC_056080.1	38160001	38180001	7.96031	0.241547	HZ	TSPAN7
4.22465	0.270815	GY	TXNDC8	NC_056080.1	38175001	38195001	5.26219	0.284341	HZ	TSPAN7
3.22822	0.217814	GY	TXNDC8	NC_056058.1	92480001	92500001	5.42536	0.224178	HZ	TTC37
3.36027	0.204031	GY	TYRP1	NC_056058.1	92485001	92505001	3.94893	0.209619	HZ	TTC37
6.07297	0.201167	GY	UBE2W	NC_056060.1	100440001	100460001	3.21893	0.298852	HZ	TTC7B
8.59202	0.205799	GY	UBE2W	NC_056056.1	225320001	225340001	14.7839	0.340624	HZ	TTL8
12.1062	0.212774	GY	UBE2W	NC_056079.1	20715001	20735001	6.00014	0.207748	HZ	TUSC3
16.5189	0.202036	GY	UBE2W	NC_056055.1	13000001	13020001	17.5245	0.342981	HZ	TXNDC8
15.7862	0.19278	GY	UBE2W	NC_056055.1	13005001	13025001	26.7252	0.367414	HZ	TXNDC8
18.5726	0.203484	GY	UBE2W	NC_056055.1	13010001	13030001	28.4253	0.403495	HZ	TXNDC8
16.5874	0.202695	GY	UBE2W	NC_056055.1	13015001	13035001	27.8621	0.424817	HZ	TXNDC8
13.8457	0.194494	GY	UBE2W	NC_056055.1	13030001	13050001	5.64383	0.365171	HZ	TXNDC8
3.48611	0.219476	GY	UBE4B	NC_056055.1	13035001	13055001	4.26348	0.293552	HZ	TXNDC8
2.76786	0.215274	GY	UBE4B	NC_056076.1	56300001	56320001	5.85163	0.213719	HZ	TXNLI

4.15183	0.220038	GY	UBIAD1	NC_056059.1	22380001	22400001	3.98617	0.22842	HZ	UBE2D3
4.95031	0.273455	GY	UBIAD1	NC_056065.1	42630001	42650001	3.4639	0.288459	HZ	UBE4B
19.7752	0.247298	GY	UCHL5	NC_056065.1	42635001	42655001	2.46324	0.31632	HZ	UBE4B
22.8915	0.238338	GY	UCHL5	NC_056065.1	42640001	42660001	2.5292	0.296286	HZ	UBE4B
20.375	0.199504	GY	UCHL5	NC_056065.1	42645001	42665001	2.43292	0.305965	HZ	UBE4B
2.48864	0.195791	GY	UNC13B	NC_056065.1	41620001	41640001	5.09628	0.232415	HZ	UBIAD1
3.25603	0.218117	GY	UNC79	NC_056073.1	16275001	16295001	3.89016	0.281839	HZ	UBR2
5.43751	0.438116	GY	USH2A	NC_056073.1	16320001	16340001	2.55394	0.240575	HZ	UBR2
2.64466	0.382584	GY	USH2A	NC_056073.1	16325001	16345001	2.5853	0.205804	HZ	UBR2
2.91413	0.205501	GY	USP24	NC_056065.1	11420001	11440001	19.5116	0.257738	HZ	UCHL5
3.11049	0.307745	GY	USP9X	NC_056065.1	11425001	11445001	23.3876	0.238914	HZ	UCHL5
3.18021	0.212382	GY	UST	NC_056065.1	11430001	11450001	22.5074	0.209806	HZ	UCHL5
2.60902	0.206049	GY	UTRN	NC_056072.1	14265001	14285001	2.54071	0.207207	HZ	ULK4
3.40333	0.217289	GY	UTRN	NC_056072.1	14270001	14290001	3.40867	0.22639	HZ	ULK4
3.62429	0.257922	GY	UTRN	NC_056072.1	14275001	14295001	4.82041	0.224612	HZ	ULK4
3.27595	0.254797	GY	V15	NC_056072.1	14280001	14300001	4.1166	0.217651	HZ	ULK4
3.33858	0.250986	GY	VAMP7	NC_056057.1	16640001	16660001	2.97338	0.231216	HZ	UMAD1
6.04598	0.19289	GY	VGLL4	NC_056057.1	16645001	16665001	2.73738	0.240025	HZ	UMAD1
4.50403	0.197884	GY	VGLL4	NC_056060.1	54045001	54065001	5.40407	0.212867	HZ	UNC13C
3.86	0.201672	GY	VPS41	NC_056077.1	1615001	1635001	2.9525	0.228282	HZ	UNKL
2.84905	0.216498	GY	VPS41	NC_056065.1	18840001	18860001	2.68346	0.245267	HZ	USH2A
2.62066	0.248219	GY	VPS41	NC_056065.1	18845001	18865001	6.675	0.322102	HZ	USH2A
4.65628	0.391096	GY	WDR44	NC_056065.1	18850001	18870001	2.91262	0.33772	HZ	USH2A
5.21298	0.50913	GY	WDR44	NC_056067.1	10410001	10430001	3.45764	0.205656	HZ	USP10
2.53333	0.466781	GY	WDR44	NC_056067.1	10420001	10440001	3.2447	0.224695	HZ	USP10
4.0432	0.56082	GY	WDR44	NC_056064.1	41345001	41365001	3.21612	0.275878	HZ	V15
3.16981	0.573508	GY	WDR44	NC_056080.1	13535001	13555001	2.96359	0.207696	HZ	VEGFD
2.56291	0.207769	GY	WNT8B	NC_056054.1	203005001	203025001	3.63741	0.251011	HZ	VPS8
3.34279	0.41134	GY	XDH	NC_056054.1	203010001	203030001	4.00557	0.26885	HZ	VPS8
2.41257	0.43063	GY	XDH	NC_056054.1	203015001	203035001	2.60622	0.252823	HZ	VPS8
9.28644	0.299567	GY	XKR4	NC_056057.1	6740001	6760001	2.687	0.252037	HZ	VWC2
3.07898	0.292837	GY	XKR4	NC_056071.1	64655001	64675001	4.38835	0.213516	HZ	WDR20
2.65312	0.239313	GY	XPA	NC_056080.1	116435001	116455001	4.72658	0.336424	HZ	WDR44
6.27273	0.220415	GY	XRN1	NC_056080.1	116440001	116460001	6.41667	0.345238	HZ	WDR44
7.05691	0.214569	GY	XRN1	NC_056080.1	116450001	116470001	3.19333	0.341812	HZ	WDR44
2.99405	0.219285	GY	XRN1	NC_056080.1	116455001	116475001	5.38889	0.294949	HZ	WDR44
2.41082	0.201997	GY	XRN1	NC_056080.1	116460001	116480001	4.32548	0.265249	HZ	WDR44
4.40989	0.199035	GY	XRN1	NC_056080.1	116465001	116485001	2.77663	0.216733	HZ	WDR44
4.37092	0.207288	GY	XRN1	NC_056076.1	56410001	56430001	8.54942	0.225091	HZ	WDR7
3.7676	0.206474	GY	XRN1	NC_056076.1	56415001	56435001	6.18698	0.209971	HZ	WDR7
3.79371	0.242022	GY	XRN1	NC_056070.1	64870001	64890001	2.38103	0.336587	HZ	WSCD2
3.063	0.278045	GY	XRN1	NC_056079.1	13215001	13235001	5.45001	0.218369	HZ	WWC2
2.55253	0.318299	GY	XRN1	NC_056079.1	13220001	13240001	5.86615	0.233754	HZ	WWC2
3.51486	0.336324	GY	XRN1	NC_056079.1	13225001	13245001	3.07522	0.304419	HZ	WWC2
4.1973	0.317708	GY	XRN1	NC_056079.1	13235001	13255001	2.47251	0.320206	HZ	WWC2
4.79831	0.322826	GY	XRN1	NC_056079.1	13240001	13260001	2.59782	0.2853	HZ	WWC2
2.47516	0.269633	GY	YES1	NC_056079.1	13245001	13265001	2.52016	0.227029	HZ	WWC2
2.58142	0.251293	GY	ZBED3	NC_056062.1	35715001	35735001	5.20105	0.313948	HZ	XKR4
3.29163	0.288233	GY	ZBED3	NC_056062.1	35720001	35740001	26.9722	0.408046	HZ	XKR4
11.7432	0.346431	GY	ZBED3	NC_056062.1	35735001	35755001	8.73367	0.456586	HZ	XKR4
3.4988	0.220171	GY	ZBTB16	NC_056062.1	35740001	35760001	3.43443	0.361107	HZ	XKR4
2.47395	0.193797	GY	ZBTB16	NC_056054.1	247250001	247270001	2.51361	0.310254	HZ	XRN1
2.39902	0.257797	GY	ZBTB16	NC_056054.1	247255001	247275001	3.54455	0.323479	HZ	XRN1
2.98438	0.29135	GY	ZBTB16	NC_056054.1	247260001	247280001	4.29253	0.28464	HZ	XRN1
3.75869	0.257081	GY	ZBTB16	NC_056054.1	247265001	247285001	5	0.274376	HZ	XRN1
4.18535	0.270105	GY	ZBTB16	NC_056054.1	247295001	247315001	11.9024	0.419962	HZ	XRN1
3.54185	0.262204	GY	ZBTB16	NC_056054.1	247300001	247320001	11.9444	0.474179	HZ	XRN1
3.51351	0.261354	GY	ZBTB16	NC_056077.1	36270001	36290001	6.63493	0.336279	HZ	ZAN
2.86562	0.298856	GY	ZBTB16	NC_056077.1	36280001	36300001	7.7404	0.327569	HZ	ZAN
2.84814	0.22702	GY	ZBTB16	NC_056077.1	36285001	36305001	6.44985	0.286893	HZ	ZAN
3.79537	0.25724	GY	ZBTB16	NC_056060.1	8270001	8290001	3.08382	0.341537	HZ	ZBED3
2.70212	0.264957	GY	ZBTB44	NC_056060.1	8275001	8295001	9.882	0.46865	HZ	ZBED3
2.65641	0.255647	GY	ZBTB44	NC_056074.1	33765001	33785001	2.41844	0.210345	HZ	ZBTB44
2.82243	0.25348	GY	ZBTB44	NC_056074.1	33770001	33790001	2.52821	0.230135	HZ	ZBTB44
5.49029	0.279808	GY	ZBTB44	NC_056074.1	33775001	33795001	3.01869	0.248556	HZ	ZBTB44
4.25572	0.27267	GY	ZBTB44	NC_056074.1	33780001	33800001	5.75729	0.313358	HZ	ZBTB44
3.37435	0.261716	GY	ZBTB44	NC_056074.1	33785001	33805001	4.91603	0.297239	HZ	ZBTB44
3.42029	0.267399	GY	ZBTB44	NC_056074.1	33790001	33810001	3.84031	0.281215	HZ	ZBTB44
3.56364	0.208957	GY	ZC3H12C	NC_056074.1	33795001	33815001	3.77682	0.283769	HZ	ZBTB44
3.98	0.275058	GY	ZC3H12C	NC_056072.1	2925001	2945001	2.43758	0.242871	HZ	ZCWPW2
2.41367	0.273219	GY	ZCWPW2	NC_056056.1	112705001	112725001	2.39739	0.278679	HZ	ZDHHHC17
2.82699	0.197012	GY	ZDHHHC17	NC_056056.1	112710001	112730001	2.47903	0.271307	HZ	ZDHHHC17
3.18457	0.26637	GY	ZDHHHC17	NC_056056.1	112715001	112735001	2.67153	0.240922	HZ	ZDHHHC17
3.38249	0.30586	GY	ZDHHHC17	NC_056056.1	112720001	112740001	2.653	0.250188	HZ	ZDHHHC17

3.15964	0.302887	GY	ZDHHC17	NC_056056.1	112725001	112745001	2.50507	0.266529	HZ	ZDHHC17
3.47198	0.366275	GY	ZDHHC17	NC_056056.1	112730001	112750001	2.37167	0.275368	HZ	ZDHHC17
3.69638	0.207645	GY	ZDHHC22	NC_056060.1	86495001	86515001	2.70797	0.278013	HZ	ZDHHC22
3.51162	0.251684	GY	ZFPM2	NC_056062.1	71755001	71775001	3.48102	0.227547	HZ	ZFPM2
2.78621	0.241397	GY	ZFPM2	NC_056062.1	71760001	71780001	2.72611	0.227765	HZ	ZFPM2
3.33334	0.228218	GY	ZFTA	NC_056080.1	133495001	133515001	3.58572	0.223942	HZ	ZMAT1
3.7848	0.220188	GY	ZFTA	NC_056080.1	133500001	133520001	3.21324	0.236111	HZ	ZMAT1
2.78899	0.229785	GY	ZNF157	NC_056057.1	78395001	78415001	2.57172	0.216137	HZ	ZMIZ2
2.43582	0.235662	GY	ZNF19;ZNF23	NC_056057.1	57695001	57715001	3.46627	0.205141	HZ	ZNF277
2.88387	0.221048	GY	ZNF304	NC_056073.1	30435001	30455001	2.68127	0.271527	HZ	ZNF322
2.91713	0.209207	GY	ZNF304	NC_056073.1	30440001	30460001	3.11985	0.273543	HZ	ZNF322
2.69407	0.2087	GY	ZNF385B	NC_056067.1	17490001	17510001	3.81366	0.236693	HZ	ZNF423
2.56038	0.200493	GY	ZNF385B	NC_056067.1	17495001	17515001	3.42471	0.251123	HZ	ZNF423
3.89319	0.307937	GY	ZNF41	NC_056067.1	17500001	17520001	3.2052	0.284338	HZ	ZNF423
3.38205	0.193854	GY	ZNF423	NC_056067.1	17505001	17525001	2.9191	0.249847	HZ	ZNF423
2.82786	0.20631	GY	ZNF438	NC_056057.1	74950001	74970001	2.68354	0.218982	HZ	ZNF804B
4.07019	0.249189	GY	ZNF438	NC_056057.1	74960001	74980001	2.35321	0.23509	HZ	ZNF804B
6.54153	0.295673	GY	ZNF438	NC_056057.1	67530001	67550001	3.20078	0.207975	HZ	ZNRF2
6.06426	0.285038	GY	ZNF438	NC_056057.1	67535001	67555001	3.79919	0.263978	HZ	ZNRF2
2.97027	0.229553	GY	ZNF438	NC_056057.1	67540001	67560001	3.93674	0.295051	HZ	ZNRF2
3.01232	0.327454	GY	ZNF655	NC_056057.1	67545001	67565001	3.44245	0.305403	HZ	ZNRF2
2.87692	0.210729	GY	ZNF704	NC_056057.1	67550001	67570001	2.36678	0.257589	HZ	ZNRF2
2.93191	0.208079	GY	ZNRF1	NC_056057.1	67560001	67580001	2.57086	0.239192	HZ	ZNRF2
2.91446	0.20723	GY	ZNRF1							
3.05625	0.199513	GY	ZNRF1							
2.86584	0.208302	GY	ZNRF1							
2.53735	0.199638	GY	ZWILCH							



## OL vs SG2

CHROM	Start	end	Pi	Fst	Region	Gene
NC_056059.1	37250001	37270001	2.74573	0.220624	OL	ABCG2
NC_056059.1	37255001	37275001	2.81686	0.26136	OL	ABCG2
NC_056059.1	37260001	37280001	2.87673	0.278973	OL	ABCG2
NC_056059.1	37265001	37285001	2.93722	0.219208	OL	ABCG2;PKD2
NC_056073.1	26695001	26715001	2.46896	0.227776	OL	ABHD16A;CSNK2B;LY6G5B;LY6G5C
NC_056073.1	26675001	26695001	5.13637	0.21655	OL	ABHD16A;LOC101119591;LY6G6D;LY6G6F
NC_056073.1	26680001	26700001	5.60225	0.232909	OL	ABHD16A;LOC101119591;LY6G6F
NC_056073.1	26690001	26710001	3.56863	0.287973	OL	ABHD16A;LY6G5B;LY6G5C
NC_056073.1	26685001	26705001	5.15687	0.294779	OL	ABHD16A;LY6G6F
NC_056055.1	64755001	64775001	3.14991	0.236842	OL	ABHD17B
NC_056055.1	64760001	64780001	5.20076	0.288226	OL	ABHD17B
NC_056058.1	5580001	5600001	2.3878	0.271663	OL	ABHD8;ANO8;DDA1;MRPL34
NC_056065.1	59940001	59960001	3.8614	0.381972	OL	ABL2
NC_056065.1	59945001	59965001	2.40476	0.427371	OL	ABL2
NC_056065.1	60970001	60990001	8.81611	0.277535	OL	ACBD6
NC_056054.1	110155001	110175001	6.09142	0.213054	OL	ACKR1
NC_056077.1	18760001	18780001	9.93449	0.230428	OL	ACSM1
NC_056055.1	14395001	14415001	3.16962	0.276844	OL	ACTL7A;ACTL7B;ELP1
NC_056055.1	14390001	14410001	3.35102	0.241905	OL	ACTL7A;ELP1
NC_056064.1	44220001	44240001	8.10466	0.240856	OL	ADAM11
NC_056064.1	44225001	44245001	8.09782	0.229137	OL	ADAM11
NC_056064.1	44210001	44230001	7.29937	0.235249	OL	ADAM11;DBF4B
NC_056064.1	44215001	44235001	6.81396	0.239046	OL	ADAM11;DBF4B
NC_056057.1	73705001	73725001	4.13787	0.26291	OL	ADAM22
NC_056057.1	73710001	73730001	23.9138	0.343701	OL	ADAM22
NC_056078.1	26085001	26105001	2.45353	0.225469	OL	ADAMTS14
NC_056069.1	14235001	14255001	4.23743	0.215749	OL	ADAMTS6
NC_056066.1	45790001	45810001	4.72848	0.216238	OL	ADARB2
NC_056066.1	45795001	45815001	6.78318	0.255283	OL	ADARB2
NC_056066.1	45800001	45820001	8.09905	0.249382	OL	ADARB2
NC_056066.1	45805001	45825001	7.99056	0.29041	OL	ADARB2
NC_056066.1	45810001	45830001	9.02432	0.318009	OL	ADARB2
NC_056066.1	45815001	45835001	4.77088	0.269785	OL	ADARB2
NC_056066.1	45820001	45840001	2.71827	0.223456	OL	ADARB2
NC_056060.1	87075001	87095001	2.46475	0.297386	OL	ADCK1
NC_056060.1	87080001	87100001	3.69041	0.324747	OL	ADCK1
NC_056060.1	87085001	87105001	3.60445	0.283778	OL	ADCK1
NC_056060.1	87090001	87110001	2.62969	0.226541	OL	ADCK1
NC_056054.1	120025001	120045001	8.83949	0.245974	OL	ADCY10
NC_056054.1	120030001	120050001	8.40654	0.23669	OL	ADCY10
NC_056054.1	120035001	120055001	6.53964	0.218979	OL	ADCY10
NC_056062.1	5285001	5305001	2.7311	0.247322	OL	ADGRB3
NC_056062.1	5290001	5310001	3.19903	0.226909	OL	ADGRB3
NC_056080.1	87110001	87130001	2.46265	0.258749	OL	AFF2
NC_056080.1	87115001	87135001	2.81877	0.272467	OL	AFF2
NC_056080.1	87120001	87140001	3.16293	0.288099	OL	AFF2
NC_056061.1	76115001	76135001	4.14265	0.279116	OL	AKAP12
NC_056061.1	76120001	76140001	6.65804	0.292476	OL	AKAP12
NC_056061.1	76125001	76145001	6.09887	0.310639	OL	AKAP12
NC_056056.1	211320001	211340001	2.81482	0.29273	OL	AKAP3;NDUFA9
NC_056056.1	211325001	211345001	2.46914	0.347823	OL	AKAP3;NDUFA9
NC_056057.1	10105001	10125001	5.71236	0.26655	OL	AKAP9
NC_056057.1	10110001	10130001	6.47999	0.288219	OL	AKAP9
NC_056057.1	10115001	10135001	4.46028	0.266019	OL	AKAP9
NC_056057.1	10120001	10140001	3.0404	0.244754	OL	AKAP9
NC_056057.1	10170001	10190001	3.59055	0.231679	OL	AKAP9
NC_056057.1	10175001	10195001	3.48499	0.222927	OL	AKAP9
NC_056061.1	49600001	49620001	6.29411	0.268652	OL	AKIRIN2
NC_056061.1	49605001	49625001	5.3136	0.252165	OL	AKIRIN2
NC_056061.1	49610001	49630001	4.68943	0.239635	OL	AKIRIN2
NC_056056.1	36420001	36440001	2.61478	0.290484	OL	ALK
NC_056056.1	36425001	36445001	3.4608	0.338821	OL	ALK
NC_056056.1	36430001	36450001	3.42063	0.292868	OL	ALK
NC_056056.1	36435001	36455001	2.7678	0.24401	OL	ALK
NC_056056.1	36560001	36580001	3.43163	0.329314	OL	ALK
NC_056059.1	13535001	13555001	4.17347	0.220675	OL	ALPK1
NC_056068.1	73315001	73335001	4.12329	0.261806	OL	ALX4
NC_056068.1	73320001	73340001	3.64973	0.245243	OL	ALX4
NC_056080.1	124960001	124980001	3.32257	0.456802	OL	AMMECR1

NC_056080.1	124980001	125000001	3.77985	0.408101	OL	AMMECR1
NC_056080.1	124985001	125005001	2.79245	0.360886	OL	AMMECR1
NC_056080.1	125015001	125035001	2.44445	0.576926	OL	AMMECR1
NC_056060.1	11860001	11880001	4.19691	0.212496	OL	ANKDD1A;SPG21
NC_056060.1	11865001	11885001	5.55258	0.255236	OL	ANKDD1A;SPG21
NC_056068.1	23630001	23650001	2.96536	0.252743	OL	ANKK1
NC_056068.1	23635001	23655001	5.55788	0.337226	OL	ANKK1
NC_056068.1	23640001	23660001	9.86297	0.323038	OL	ANKK1
NC_056068.1	23645001	23665001	15.3453	0.294261	OL	ANKK1
NC_056068.1	23650001	23670001	9.88971	0.261893	OL	ANKK1
NC_056060.1	6615001	6635001	3.61351	0.47059	OL	ANKRD31
NC_056077.1	4380001	4400001	4.848	0.22753	OL	ANKS3;DNAAF8;ZNF500
NC_056056.1	210345001	210365001	2.54664	0.261513	OL	ANO2
NC_056056.1	210350001	210370001	2.91361	0.25094	OL	ANO2
NC_056056.1	170390001	170410001	3.1704	0.30454	OL	ANO4
NC_056056.1	170395001	170415001	6.36644	0.24381	OL	ANO4
NC_056056.1	170420001	170440001	12.1705	0.24537	OL	ANO4
NC_056056.1	170425001	170445001	4.12627	0.230963	OL	ANO4
NC_056056.1	141280001	141300001	2.39971	0.262785	OL	ANO6
NC_056056.1	141285001	141305001	2.9916	0.4034	OL	ANO6
NC_056056.1	141290001	141310001	2.59669	0.39377	OL	ANO6
NC_056060.1	4770001	4790001	2.89382	0.270145	OL	AP3S1
NC_056056.1	28790001	28810001	2.38275	0.280005	OL	APOB
NC_056054.1	192895001	192915001	2.37829	0.315272	OL	APOD
NC_056060.1	41090001	41110001	3.65366	0.255615	OL	ARF6
NC_056060.1	41095001	41115001	3.30427	0.274081	OL	ARF6
NC_056070.1	10415001	10435001	2.54387	0.225258	OL	ARHGAP10
NC_056059.1	101165001	101185001	3.99754	0.225215	OL	ARHGAP24
NC_056080.1	9310001	9330001	2.84667	0.400511	OL	ARHGAP6
NC_056080.1	9710001	9730001	3.36231	0.247104	OL	ARHGAP6
NC_056080.1	9715001	9735001	3.125	0.258649	OL	ARHGAP6
NC_056080.1	9720001	9740001	3.13174	0.25271	OL	ARHGAP6
NC_056080.1	9730001	9750001	2.69512	0.246416	OL	ARHGAP6
NC_056054.1	105965001	105985001	15.3284	0.305157	OL	ARHGEF2;RXFP4
NC_056054.1	105970001	105990001	3.61236	0.291045	OL	ARHGEF2;RXFP4
NC_056055.1	240160001	240180001	4.24114	0.23109	OL	ARID1A
NC_056055.1	240165001	240185001	2.50575	0.230471	OL	ARID1A
NC_056060.1	68420001	68440001	2.90379	0.21915	OL	ARMH4;LOC114115623
NC_056077.1	37460001	37480001	6.31087	0.32273	OL	ARPC1A
NC_056077.1	37465001	37485001	5.38272	0.375111	OL	ARPC1A
NC_056077.1	37470001	37490001	3.34455	0.303862	OL	ARPC1A
NC_056077.1	37475001	37495001	2.6626	0.227048	OL	ARPC1A
NC_056077.1	37450001	37470001	3.69501	0.215289	OL	ARPC1A;ARPC1B
NC_056077.1	37455001	37475001	4.85949	0.27898	OL	ARPC1A;ARPC1B
NC_056072.1	9610001	9630001	2.76954	0.216993	OL	ARPP21
NC_056058.1	92490001	92510001	3.64109	0.355275	OL	ARSK;TTC37
NC_056058.1	92495001	92515001	2.41076	0.3043	OL	ARSK;TTC37
NC_056065.1	57640001	57660001	2.99723	0.227992	OL	ASTN1
NC_056065.1	57645001	57665001	3.32265	0.257486	OL	ASTN1
NC_056065.1	57650001	57670001	2.89758	0.256566	OL	ASTN1
NC_056065.1	70400001	70420001	3.48376	0.252287	OL	ATF3
NC_056065.1	70405001	70425001	3.64336	0.261565	OL	ATF3
NC_056065.1	70395001	70415001	2.80796	0.221975	OL	ATF3;FAM71A
NC_056060.1	41735001	41755001	3.07659	0.22012	OL	ATL1
NC_056060.1	41740001	41760001	2.84241	0.236552	OL	ATL1;SAV1
NC_056060.1	41745001	41765001	3.00393	0.23181	OL	ATL1;SAV1
NC_056060.1	41750001	41770001	2.94142	0.252239	OL	ATL1;SAV1
NC_056067.1	7200001	7220001	9.4609	0.214672	OL	ATMIN;CENPN
NC_056067.1	10165001	10185001	3.71662	0.221568	OL	ATP2C2
NC_056067.1	10170001	10190001	6.52019	0.277394	OL	ATP2C2
NC_056056.1	132840001	132860001	3.06144	0.267712	OL	ATP5MC2
NC_056056.1	132860001	132880001	2.44764	0.267372	OL	ATP5MC2
NC_056080.1	69095001	69115001	2.49751	0.228488	OL	ATP7A
NC_056080.1	69105001	69125001	4.29267	0.25039	OL	ATP7A
NC_056080.1	68765001	68785001	2.3516	0.277778	OL	ATRX
NC_056077.1	26470001	26490001	2.57641	0.220274	OL	ATXN2L;SH2B1;TUFM
NC_056077.1	26475001	26495001	2.45339	0.214401	OL	ATXN2L;SH2B1;TUFM
NC_056071.1	54570001	54590001	3.4914	0.300502	OL	ATXN3
NC_056071.1	54575001	54595001	3.69091	0.351806	OL	ATXN3
NC_056071.1	54580001	54600001	3.47286	0.332964	OL	ATXN3
NC_056071.1	54585001	54605001	4.49289	0.329465	OL	ATXN3
NC_056071.1	54590001	54610001	2.94542	0.265655	OL	ATXN3
NC_056071.1	54595001	54615001	3.30267	0.234054	OL	ATXN3;NDUFB1
NC_056071.1	54600001	54620001	3.99668	0.319643	OL	ATXN3;NDUFB1



NC_056057.1	65520001	65540001	2.56746	0.244375	OL	AVL9
NC_056057.1	65525001	65545001	3.15803	0.246873	OL	AVL9
NC_056057.1	65530001	65550001	2.51172	0.230487	OL	AVL9
NC_056057.1	65535001	65555001	2.47906	0.235925	OL	AVL9
NC_056080.1	63120001	63140001	3.43284	0.268908	OL	AWAT1
NC_056076.1	25820001	25840001	3.71806	0.234151	OL	B4GALT6
NC_056074.1	40820001	40840001	3.00625	0.510085	OL	B4GAT1;BRMS1
NC_056074.1	40825001	40845001	2.73988	0.523074	OL	B4GAT1;BRMS1
NC_056057.1	65100001	65120001	4.06367	0.231474	OL	BBS9
NC_056054.1	70860001	70880001	2.84189	0.348535	OL	BCAR3
NC_056054.1	70865001	70885001	7.43721	0.437013	OL	BCAR3
NC_056054.1	70870001	70890001	10.7736	0.509791	OL	BCAR3
NC_056054.1	70875001	70895001	11.6084	0.466118	OL	BCAR3
NC_056054.1	70880001	70900001	3.09011	0.329158	OL	BCAR3
NC_056080.1	18420001	18440001	2.59016	0.27869	OL	BCLAF3
NC_056080.1	18440001	18460001	2.34982	0.298792	OL	BCLAF3
NC_056080.1	18455001	18475001	2.46268	0.303822	OL	BCLAF3
NC_056080.1	18470001	18490001	2.41772	0.256526	OL	BCLAF3
NC_056080.1	18475001	18495001	2.50667	0.290948	OL	BCLAF3
NC_056080.1	39390001	39410001	2.85708	0.221726	OL	BCOR
NC_056056.1	183095001	183115001	2.49553	0.263305	OL	BICD1
NC_056056.1	203025001	203045001	4.3014	0.410413	OL	BORCS5
NC_056056.1	203030001	203050001	7.90598	0.455433	OL	BORCS5
NC_056056.1	203035001	203055001	10.3443	0.44491	OL	BORCS5
NC_056056.1	203040001	203060001	4.72014	0.42844	OL	BORCS5
NC_056074.1	46430001	46450001	5.77819	0.273643	OL	BRSK2;MOB2
NC_056074.1	46435001	46455001	6.69517	0.269268	OL	BRSK2;MOB2
NC_056074.1	46440001	46460001	6.40608	0.274167	OL	BRSK2;MOB2
NC_056063.1	20855001	20875001	2.64573	0.257593	OL	C10H13orf42
NC_056065.1	65040001	65060001	13.9694	0.252822	OL	C12H1orf21
NC_056065.1	65045001	65065001	5.97543	0.278841	OL	C12H1orf21
NC_056067.1	55360001	55380001	7.45712	0.293126	OL	C14H19orf73;LIN7B;PPFIA3
NC_056067.1	55370001	55390001	5.45188	0.213654	OL	C14H19orf73;LIN7B;PPFIA3
NC_056067.1	55355001	55375001	3.70662	0.271545	OL	C14H19orf73;LIN7B;PPFIA3;SNRNP70
NC_056068.1	21940001	21960001	11.1803	0.239323	OL	C15H11orf52;DIXDC1
NC_056068.1	19010001	19030001	3.11547	0.366213	OL	C15H11orf87
NC_056068.1	15625001	15645001	2.79024	0.221627	OL	C15H11orf97
NC_056068.1	15630001	15650001	2.96773	0.262159	OL	C15H11orf97
NC_056068.1	15635001	15655001	3.16932	0.267922	OL	C15H11orf97
NC_056068.1	15640001	15660001	3.49105	0.223837	OL	C15H11orf97
NC_056068.1	15645001	15665001	2.70465	0.264465	OL	C15H11orf97
NC_056072.1	16255001	16275001	2.51172	0.228953	OL	C19H3orf86;TCAIM
NC_056080.1	104940001	104960001	4.30502	0.283169	OL	C1GALT1C1
NC_056080.1	104945001	104965001	8.88274	0.361006	OL	C1GALT1C1
NC_056054.1	102650001	102670001	2.79527	0.268891	OL	C1H1orf68
NC_056074.1	41180001	41200001	5.64625	0.297353	OL	C21H11orf80
NC_056055.1	64660001	64680001	3.23048	0.220634	OL	C2H9orf85
NC_056055.1	64665001	64685001	4.2562	0.253524	OL	C2H9orf85
NC_056055.1	64670001	64690001	8.57981	0.329843	OL	C2H9orf85
NC_056055.1	64675001	64695001	5.16956	0.288496	OL	C2H9orf85
NC_056055.1	64680001	64700001	4.69451	0.281898	OL	C2H9orf85
NC_056055.1	64685001	64705001	2.83698	0.222533	OL	C2H9orf85
NC_056061.1	49930001	49950001	2.84318	0.402618	OL	C8H6orf163;SMIM8
NC_056057.1	39840001	39860001	5.17875	0.23868	OL	CACNA2D1
NC_056057.1	39845001	39865001	4.93622	0.217728	OL	CACNA2D1
NC_056056.1	132820001	132840001	9.93748	0.232849	OL	CALCOCO1
NC_056057.1	100200001	100220001	3.00626	0.242492	OL	CALD1
NC_056057.1	100205001	100225001	2.68456	0.226968	OL	CALD1
NC_056078.1	28970001	28990001	2.63593	0.220582	OL	CAMK2G
NC_056078.1	28975001	28995001	3.08611	0.222571	OL	CAMK2G
NC_056056.1	79865001	79885001	3.35018	0.235853	OL	CAMKMT
NC_056056.1	79870001	79890001	4.83458	0.329709	OL	CAMKMT
NC_056056.1	79875001	79895001	7.42856	0.409258	OL	CAMKMT
NC_056056.1	79880001	79900001	14.8182	0.505814	OL	CAMKMT
NC_056056.1	79885001	79905001	15.1504	0.46589	OL	CAMKMT
NC_056056.1	79890001	79910001	12.6646	0.417839	OL	CAMKMT
NC_056056.1	79895001	79915001	6.63576	0.356744	OL	CAMKMT
NC_056056.1	79900001	79920001	2.86667	0.223419	OL	CAMKMT
NC_056056.1	79945001	79965001	5.16426	0.229628	OL	CAMKMT
NC_056056.1	79950001	79970001	4.13825	0.224048	OL	CAMKMT;PREPL
NC_056056.1	79955001	79975001	2.57004	0.225882	OL	CAMKMT;PREPL
NC_056065.1	26225001	26245001	3.34712	0.377362	OL	CAPN8
NC_056065.1	26230001	26250001	5.2847	0.346981	OL	CAPN8
NC_056065.1	26235001	26255001	3.92757	0.316444	OL	CAPN8

NC_056065.1	26240001	26260001	2.6792	0.243171	OL	CAPN8
NC_056065.1	26245001	26265001	2.46133	0.213846	OL	CAPN8
NC_056065.1	42175001	42195001	3.54193	0.259139	OL	CASZ1
NC_056065.1	42180001	42200001	3.37753	0.232641	OL	CASZ1
NC_056078.1	24275001	24295001	8.75555	0.306415	OL	CCAR1
NC_056078.1	24260001	24280001	6.26667	0.305882	OL	CCAR1;TET1
NC_056078.1	24265001	24285001	5.76523	0.314423	OL	CCAR1;TET1
NC_056056.1	68690001	68710001	2.36905	0.324435	OL	CCDC88A
NC_056064.1	15485001	15505001	4.24185	0.300354	OL	CCL1
NC_056064.1	15490001	15510001	2.74949	0.288233	OL	CCL1
NC_056074.1	43270001	43290001	2.39783	0.243835	OL	CCND1
NC_056074.1	43275001	43295001	3.2887	0.26402	OL	CCND1
NC_056075.1	17260001	17280001	2.54518	0.214175	OL	CCNJ
NC_056059.1	33685001	33705001	3.45848	0.241824	OL	CCSER1
NC_056059.1	33690001	33710001	5.1978	0.244345	OL	CCSER1
NC_056059.1	33695001	33715001	4.75748	0.250156	OL	CCSER1
NC_056059.1	33700001	33720001	5.47766	0.243544	OL	CCSER1
NC_056059.1	33855001	33875001	9.05694	0.227022	OL	CCSER1
NC_056059.1	33860001	33880001	9.09704	0.224796	OL	CCSER1
NC_056059.1	34895001	34915001	2.66344	0.479934	OL	CCSER1
NC_056059.1	34900001	34920001	4.88056	0.579317	OL	CCSER1
NC_056059.1	34905001	34925001	7.78637	0.469428	OL	CCSER1
NC_056059.1	34910001	34930001	2.65293	0.368503	OL	CCSER1
NC_056074.1	34775001	34795001	3.73029	0.261471	OL	CD5
NC_056074.1	34780001	34800001	2.95636	0.217652	OL	CD5
NC_056078.1	38215001	38235001	7.68835	0.38505	OL	CDHR1;LRIT2
NC_056078.1	38220001	38240001	2.69081	0.266819	OL	CDHR1;LRIT2
NC_056061.1	26780001	26800001	3.04828	0.237726	OL	CDK19
NC_056059.1	91165001	91185001	3.88282	0.368236	OL	CDKL2
NC_056059.1	91170001	91190001	4.079	0.406731	OL	CDKL2
NC_056059.1	91175001	91195001	3.20179	0.366409	OL	CDKL2
NC_056059.1	91180001	91200001	2.49734	0.293271	OL	CDKL2
NC_056060.1	4640001	4660001	4.04349	0.329187	OL	CDO1
NC_056055.1	140890001	140910001	3.3485	0.225424	OL	CERS6
NC_056055.1	140895001	140915001	3.59169	0.226215	OL	CERS6
NC_056060.1	6895001	6915001	3.43679	0.506515	OL	CERT1
NC_056068.1	6350001	6370001	2.87925	0.269168	OL	CFAP300
NC_056074.1	42005001	42025001	3.68554	0.215917	OL	CHKA
NC_056074.1	42010001	42030001	3.87668	0.224082	OL	CHKA
NC_056074.1	42015001	42035001	3.73181	0.245937	OL	CHKA
NC_056074.1	42020001	42040001	3.33172	0.236915	OL	CHKA
NC_056078.1	11980001	12000001	28.4636	0.274541	OL	CHRM3
NC_056058.1	21930001	21950001	2.40795	0.245309	OL	CHSY3
NC_056058.1	21935001	21955001	2.42532	0.237244	OL	CHSY3
NC_056075.1	20860001	20880001	3.12107	0.368325	OL	CHUK;ERLIN1
NC_056077.1	1160001	1180001	10.5217	0.311925	OL	CIAO3;HAGHL
NC_056077.1	1165001	1185001	9.21256	0.320186	OL	CIAO3;MSLN
NC_056080.1	55435001	55455001	3.73809	0.228921	OL	CLCN5
NC_056068.1	24030001	24050001	3.94708	0.258473	OL	CLDN25;USP28
NC_056068.1	24035001	24055001	8.4385	0.27898	OL	CLDN25;USP28
NC_056068.1	24025001	24045001	3.2595	0.242462	OL	CLDN25;USP28;ZW10
NC_056068.1	24020001	24040001	2.54068	0.267684	OL	CLDN25;ZW10
NC_056077.1	10250001	10270001	2.9744	0.276738	OL	CLEC16A
NC_056077.1	10255001	10275001	3.32892	0.344058	OL	CLEC16A
NC_056056.1	206080001	206100001	2.70101	0.359779	OL	CLEC2D;LOC101122428
NC_056056.1	206085001	206105001	3.4384	0.377856	OL	CLEC2D;LOC101122428
NC_056056.1	206090001	206110001	4.2795	0.333558	OL	CLEC2D;LOC101122428
NC_056056.1	207220001	207240001	3.2756	0.228954	OL	CLEC4A
NC_056080.1	81820001	81840001	3.19424	0.259197	OL	CLIC2
NC_056080.1	81825001	81845001	2.87129	0.360215	OL	CLIC2
NC_056077.1	33500001	33520001	6.5491	0.604458	OL	CLIP2
NC_056077.1	33535001	33555001	6.80868	0.588921	OL	CLIP2
NC_056077.1	33540001	33560001	4.3488	0.563588	OL	CLIP2
NC_056077.1	33545001	33565001	3.50057	0.571178	OL	CLIP2
NC_056077.1	33550001	33570001	2.36745	0.535849	OL	CLIP2
NC_056063.1	75990001	76010001	2.5523	0.456746	OL	CLYBL
NC_056063.1	75995001	76015001	2.7306	0.511189	OL	CLYBL
NC_056060.1	10625001	10645001	2.46097	0.290547	OL	CMYA5;TENT2
NC_056067.1	25440001	25460001	2.89686	0.358407	OL	CNGB1
NC_056067.1	25445001	25465001	3.86842	0.569143	OL	CNGB1
NC_056067.1	25450001	25470001	2.79934	0.582627	OL	CNGB1
NC_056058.1	63815001	63835001	3.27614	0.212502	OL	CNOT8;FAXDC2
NC_056058.1	63820001	63840001	3.93158	0.239758	OL	CNOT8;FAXDC2
NC_056058.1	63825001	63845001	3.58196	0.261419	OL	CNOT8;FAXDC2

NC_056058.1	63830001	63850001	4.8087	0.249553	OL	CNOT8;GEMIN5
NC_056058.1	63835001	63855001	5.98727	0.229205	OL	CNOT8;GEMIN5
NC_056058.1	63840001	63860001	6.04348	0.21828	OL	CNOT8;GEMIN5
NC_056068.1	8715001	8735001	16.0448	0.230049	OL	CNTN5
NC_056068.1	9800001	9820001	3.27299	0.289707	OL	CNTN5
NC_056068.1	9805001	9825001	2.76987	0.269732	OL	CNTN5
NC_056067.1	3035001	3055001	2.77718	0.22762	OL	CNTNAP4
NC_056067.1	3040001	3060001	2.43643	0.255127	OL	CNTNAP4
NC_056067.1	3045001	3065001	2.3414	0.254394	OL	CNTNAP4
NC_056055.1	189690001	189710001	2.57965	0.306947	OL	CNTNAP5
NC_056055.1	189695001	189715001	5.09975	0.338114	OL	CNTNAP5
NC_056055.1	189700001	189720001	5.43589	0.310033	OL	CNTNAP5
NC_056055.1	189705001	189725001	2.5777	0.212639	OL	CNTNAP5
NC_056057.1	50035001	50055001	2.39648	0.23466	OL	COG5
NC_056057.1	50040001	50060001	2.43401	0.252529	OL	COG5
NC_056057.1	50045001	50065001	2.56973	0.217776	OL	COG5
NC_056063.1	22995001	23015001	2.72263	0.230568	OL	COG6
NC_056063.1	23000001	23020001	3.87339	0.277437	OL	COG6
NC_056062.1	4250001	4270001	3.11201	0.264534	OL	COL19A1
NC_056062.1	4270001	4290001	4.71337	0.22435	OL	COL19A1
NC_056062.1	4275001	4295001	6.65569	0.237064	OL	COL19A1
NC_056062.1	4295001	4315001	7.00632	0.258201	OL	COL19A1
NC_056062.1	17240001	17260001	6.78611	0.214988	OL	COL22A1
NC_056062.1	17245001	17265001	9.70351	0.377656	OL	COL22A1
NC_056058.1	37325001	37345001	2.41644	0.217077	OL	COL23A1
NC_056077.1	35635001	35655001	2.41786	0.242063	OL	COL26A1
NC_056077.1	35640001	35660001	3.92807	0.30411	OL	COL26A1
NC_056077.1	35645001	35665001	3.1839	0.277793	OL	COL26A1
NC_056077.1	35650001	35670001	3.46845	0.287444	OL	COL26A1
NC_056055.1	120365001	120385001	2.86868	0.217741	OL	COL3A1
NC_056055.1	120370001	120390001	6.91275	0.269664	OL	COL3A1
NC_056055.1	120375001	120395001	18.1241	0.290704	OL	COL3A1
NC_056055.1	120380001	120400001	19.8672	0.287521	OL	COL3A1
NC_056055.1	120385001	120405001	19.8462	0.27736	OL	COL3A1
NC_056054.1	273020001	273040001	2.67881	0.287313	OL	COL6A5
NC_056058.1	35355001	35375001	2.54944	0.213367	OL	COMMD10
NC_056058.1	35400001	35420001	3.03378	0.238876	OL	COMMD10
NC_056058.1	35405001	35425001	4.34345	0.294722	OL	COMMD10
NC_056058.1	35410001	35430001	2.67299	0.249056	OL	COMMD10
NC_056071.1	54605001	54625001	4.73172	0.365217	OL	CPSF2;NDUFB1
NC_056071.1	54610001	54630001	4.26574	0.356106	OL	CPSF2;NDUFB1
NC_056071.1	54615001	54635001	3.04216	0.358422	OL	CPSF2;NDUFB1
NC_056057.1	68565001	68585001	3.26259	0.334617	OL	CPVL
NC_056057.1	68570001	68590001	5.43005	0.441499	OL	CPVL
NC_056057.1	68575001	68595001	17.1839	0.497422	OL	CPVL
NC_056057.1	68625001	68645001	3.79747	0.383303	OL	CPVL
NC_056057.1	68630001	68650001	4.80445	0.359898	OL	CPVL
NC_056057.1	68635001	68655001	6.44446	0.338807	OL	CPVL
NC_056057.1	68640001	68660001	6.66147	0.338432	OL	CPVL
NC_056057.1	68645001	68665001	28.7599	0.368878	OL	CPVL
NC_056057.1	68655001	68675001	11.4658	0.344416	OL	CPVL
NC_056057.1	68660001	68680001	6.3074	0.321869	OL	CPVL
NC_056056.1	130150001	130170001	2.35726	0.263763	OL	CRADD
NC_056056.1	130155001	130175001	2.35284	0.247053	OL	CRADD
NC_056069.1	4965001	4985001	3.55985	0.371161	OL	CREBRF
NC_056069.1	4970001	4990001	6.81527	0.384725	OL	CREBRF
NC_056069.1	4975001	4995001	4.32307	0.398214	OL	CREBRF
NC_056069.1	4980001	5000001	2.8911	0.390162	OL	CREBRF
NC_056068.1	74800001	74820001	3.18786	0.292425	OL	CRY2
NC_056068.1	74805001	74825001	7.0135	0.331775	OL	CRY2
NC_056068.1	74810001	74830001	7.60433	0.324339	OL	CRY2
NC_056056.1	180970001	180990001	11.2973	0.214017	OL	CSF2RB
NC_056079.1	2485001	2505001	11.2022	0.221117	OL	CSMD1
NC_056079.1	3880001	3900001	2.58316	0.242937	OL	CSMD1
NC_056079.1	3885001	3905001	2.41827	0.326936	OL	CSMD1
NC_056059.1	86195001	86215001	3.6721	0.215794	OL	CSN2
NC_056059.1	86200001	86220001	7.33694	0.280393	OL	CSN2
NC_056059.1	86205001	86225001	7.21644	0.257515	OL	CSN2
NC_056076.1	850001	870001	2.49939	0.234764	OL	CTDP1
NC_056056.1	51885001	51905001	3.41472	0.271362	OL	CTNNA2
NC_056056.1	51890001	51910001	4.53718	0.327645	OL	CTNNA2
NC_056056.1	51895001	51915001	2.3726	0.312949	OL	CTNNA2
NC_056078.1	21665001	21685001	2.44737	0.258918	OL	CTNNA3
NC_056078.1	21685001	21705001	4.31396	0.328351	OL	CTNNA3

NC_056078.1	21690001	21710001	3.50944	0.303704	OL	CTNNA3
NC_056078.1	21695001	21715001	3.27791	0.296028	OL	CTNNA3
NC_056078.1	21700001	21720001	2.61131	0.30019	OL	CTNNA3
NC_056069.1	61520001	61540001	6.71589	0.245435	OL	CTNND2
NC_056069.1	61905001	61925001	2.33222	0.253383	OL	CTNND2
NC_056054.1	15530001	15550001	4.07628	0.370905	OL	CTPS1;SCMH1;SLFNL1
NC_056071.1	22960001	22980001	2.6989	0.221076	OL	CTSH;MORF4L1
NC_056057.1	52085001	52105001	2.81955	0.235982	OL	CTTNBP2
NC_056057.1	52090001	52110001	2.50117	0.269056	OL	CTTNBP2
NC_056066.1	30760001	30780001	4.72727	0.220453	OL	CUBN
NC_056055.1	130080001	130100001	3.29522	0.280787	OL	CWC22
NC_056055.1	130085001	130105001	2.98512	0.293602	OL	CWC22
NC_056055.1	130090001	130110001	2.46798	0.265212	OL	CWC22
NC_056068.1	15825001	15845001	3.19064	0.243554	OL	CWF19L2
NC_056068.1	15830001	15850001	3.83516	0.255646	OL	CWF19L2
NC_056068.1	15835001	15855001	3.79707	0.257669	OL	CWF19L2
NC_056068.1	15840001	15860001	2.75801	0.22144	OL	CWF19L2
NC_056068.1	15700001	15720001	2.81151	0.252453	OL	CWF19L2;LOC114118382
NC_056068.1	15705001	15725001	2.52921	0.303752	OL	CWF19L2;LOC114118382
NC_056068.1	15710001	15730001	2.48525	0.261827	OL	CWF19L2;LOC114118382
NC_056078.1	43890001	43910001	3.6403	0.215376	OL	CXCL12
NC_056078.1	43895001	43915001	4.97519	0.256098	OL	CXCL12
NC_056078.1	43900001	43920001	6.53465	0.266743	OL	CXCL12
NC_056078.1	43905001	43925001	4.84596	0.299146	OL	CXCL12
NC_056078.1	43910001	43930001	4.34472	0.297295	OL	CXCL12
NC_056078.1	43915001	43935001	3.95851	0.287599	OL	CXCL12
NC_056078.1	43920001	43940001	3.13862	0.278166	OL	CXCL12
NC_056058.1	66590001	66610001	2.52901	0.306731	OL	CYFIP2;FNDC9
NC_056058.1	66595001	66615001	2.82097	0.343717	OL	CYFIP2;FNDC9
NC_056058.1	66600001	66620001	2.38451	0.359985	OL	CYFIP2;FNDC9
NC_056056.1	181325001	181345001	5.0926	0.318264	OL	CYTH4
NC_056063.1	46715001	46735001	2.8833	0.284083	OL	DACH1
NC_056063.1	46720001	46740001	4.90253	0.28033	OL	DACH1
NC_056063.1	46850001	46870001	8.96538	0.273274	OL	DACH1
NC_056063.1	46855001	46875001	21.403	0.327435	OL	DACH1
NC_056063.1	46890001	46910001	4.24782	0.24081	OL	DACH1
NC_056063.1	46895001	46915001	2.37461	0.287402	OL	DACH1
NC_056063.1	46925001	46945001	2.53771	0.312299	OL	DACH1
NC_056063.1	46980001	47000001	2.59305	0.292436	OL	DACH1
NC_056063.1	46985001	47005001	2.62767	0.257674	OL	DACH1
NC_056056.1	2440001	2460001	2.40491	0.272415	OL	DBH
NC_056067.1	14315001	14335001	2.43206	0.372899	OL	DBNDD1;GAS8
NC_056067.1	14305001	14325001	6.66667	0.469199	OL	DBNDD1;GAS8;LOC101113264
NC_056067.1	14310001	14330001	4.12637	0.390756	OL	DBNDD1;GAS8;LOC101113264
NC_056067.1	14290001	14310001	6.0251	0.438866	OL	DBNDD1;LOC101113264
NC_056067.1	14295001	14315001	8.37662	0.466741	OL	DBNDD1;LOC101113264
NC_056067.1	14300001	14320001	8.36735	0.459524	OL	DBNDD1;LOC101113264
NC_056056.1	141550001	141570001	4.1396	0.402853	OL	DBX2
NC_056060.1	79020001	79040001	3.61472	0.249151	OL	DCAF5
NC_056068.1	60905001	60925001	3.68109	0.386284	OL	DCDC1
NC_056068.1	60910001	60930001	2.67722	0.374889	OL	DCDC1
NC_056070.1	7725001	7745001	2.39425	0.248098	OL	DCLK2
NC_056070.1	7730001	7750001	3.15578	0.238596	OL	DCLK2
NC_056066.1	28935001	28955001	8.03226	0.219609	OL	DCLRE1C;MEIG1
NC_056072.1	47735001	47755001	2.49893	0.221502	OL	DCP1A
NC_056072.1	47740001	47760001	2.55866	0.224318	OL	DCP1A
NC_056072.1	47745001	47765001	2.6521	0.240841	OL	DCP1A
NC_056072.1	47750001	47770001	3.01339	0.320471	OL	DCP1A
NC_056072.1	47755001	47775001	4.44889	0.250203	OL	DCP1A
NC_056057.1	6180001	6200001	3.71518	0.2592	OL	DDC
NC_056057.1	6185001	6205001	4.00422	0.301305	OL	DDC
NC_056079.1	32505001	32525001	8.14285	0.27343	OL	DDHD2;NSD3;PLPP5
NC_056054.1	114180001	114200001	2.75338	0.317914	OL	DDR2
NC_056054.1	114185001	114205001	3.10857	0.304491	OL	DDR2
NC_056054.1	114190001	114210001	3.18972	0.298742	OL	DDR2
NC_056074.1	26735001	26755001	2.34181	0.277051	OL	DDX25
NC_056074.1	26740001	26760001	2.38828	0.21836	OL	DDX25
NC_056068.1	29100001	29120001	2.59387	0.362242	OL	DDX6
NC_056068.1	29105001	29125001	3.12811	0.371187	OL	DDX6
NC_056068.1	29110001	29130001	3.0178	0.360666	OL	DDX6
NC_056068.1	29115001	29135001	2.33939	0.266849	OL	DDX6
NC_056056.1	12185001	12205001	6.88244	0.23451	OL	DENND1A
NC_056056.1	12190001	12210001	5.52419	0.257421	OL	DENND1A
NC_056056.1	12195001	12215001	3.74167	0.241523	OL	DENND1A

NC_056062.1	94215001	94235001	2.68066	0.26058	OL	DEPTOR
NC_056062.1	94205001	94225001	4.73541	0.340334	OL	DEPTOR;DSCC1
NC_056062.1	94210001	94230001	3.16239	0.323849	OL	DEPTOR;DSCC1
NC_056056.1	199565001	199585001	4.6047	0.240049	OL	DERA
NC_056068.1	75265001	75285001	3.1272	0.276591	OL	DGKZ
NC_056068.1	75270001	75290001	4.33413	0.312854	OL	DGKZ
NC_056068.1	75275001	75295001	5.07062	0.316273	OL	DGKZ
NC_056068.1	75280001	75300001	4.50157	0.302893	OL	DGKZ
NC_056068.1	75285001	75305001	4.03815	0.293957	OL	DGKZ
NC_056080.1	137580001	137600001	4.08333	0.268175	OL	DIAPH2
NC_056063.1	2925001	2945001	2.83559	0.214117	OL	DIAPH3
NC_056078.1	4090001	4110001	2.41168	0.297717	OL	DISC1
NC_056068.1	21995001	22015001	3.05097	0.246885	OL	DIXDC1
NC_056068.1	22000001	22020001	2.52517	0.255847	OL	DIXDC1
NC_056068.1	22005001	22025001	2.428	0.294956	OL	DIXDC1
NC_056079.1	22795001	22815001	4.0493	0.234529	OL	DLC1
NC_056079.1	22800001	22820001	4.12875	0.246385	OL	DLC1
NC_056074.1	10205001	10225001	3.77678	0.220995	OL	DLG2
NC_056074.1	10210001	10230001	7.32114	0.261209	OL	DLG2
NC_056074.1	10215001	10235001	6.63178	0.260015	OL	DLG2
NC_056074.1	10220001	10240001	5.53494	0.252791	OL	DLG2
NC_056074.1	11105001	11125001	3.10985	0.22236	OL	DLG2
NC_056074.1	11110001	11130001	3.36142	0.229641	OL	DLG2
NC_056076.1	38490001	38510001	2.78218	0.265943	OL	DLGAP1
NC_056076.1	38495001	38515001	2.86806	0.237163	OL	DLGAP1
NC_056076.1	38805001	38825001	2.66151	0.241055	OL	DLGAP1
NC_056080.1	31715001	31735001	2.49479	0.240522	OL	DMD
NC_056060.1	10040001	10060001	3.72545	0.352522	OL	DMGDH
NC_056062.1	21675001	21695001	2.33506	0.240658	OL	DNAAF11
NC_056062.1	21670001	21690001	2.39903	0.234379	OL	DNAAF11;TMEM71
NC_056077.1	4385001	4405001	4.48799	0.221947	OL	DNAAF8;ZNF500
NC_056077.1	4390001	4410001	7.0522	0.256052	OL	DNAAF8;ZNF500
NC_056078.1	23535001	23555001	2.3828	0.231128	OL	DNAJC12
NC_056078.1	23540001	23560001	3.76436	0.261902	OL	DNAJC12
NC_056055.1	40245001	40265001	3.26129	0.218462	OL	DOCK5
NC_056055.1	181095001	181115001	2.59417	0.246411	OL	DPP10
NC_056055.1	181100001	181120001	6.34705	0.395482	OL	DPP10
NC_056055.1	181105001	181125001	6.34821	0.406405	OL	DPP10
NC_056055.1	181110001	181130001	3.25167	0.328911	OL	DPP10
NC_056057.1	63595001	63615001	2.46195	0.221168	OL	DPY19L1
NC_056057.1	63600001	63620001	2.84085	0.320398	OL	DPY19L1
NC_056062.1	82440001	82460001	2.36873	0.381041	OL	DPY19L4
NC_056062.1	82445001	82465001	3.149	0.427731	OL	DPY19L4
NC_056062.1	82450001	82470001	4.90453	0.494466	OL	DPY19L4
NC_056062.1	82455001	82475001	9.9634	0.518348	OL	DPY19L4
NC_056062.1	82475001	82495001	23.5324	0.553694	OL	DPY19L4
NC_056062.1	82485001	82505001	26	0.517751	OL	DPY19L4
NC_056062.1	82495001	82515001	11.4647	0.31195	OL	DPY19L4
NC_056062.1	82500001	82520001	3.3908	0.221104	OL	DPY19L4
NC_056058.1	56385001	56405001	2.65652	0.289889	OL	DPYSL3;LOC121819651
NC_056062.1	94195001	94215001	6.34983	0.309285	OL	DSCC1
NC_056062.1	94200001	94220001	8.41164	0.354333	OL	DSCC1
NC_056062.1	94180001	94200001	8.73592	0.285006	OL	DSCC1;TAF2
NC_056062.1	94185001	94205001	8.96994	0.296406	OL	DSCC1;TAF2
NC_056062.1	94190001	94210001	12.2056	0.289953	OL	DSCC1;TAF2
NC_056061.1	21555001	21575001	12.3544	0.231176	OL	DSE
NC_056073.1	3735001	3755001	2.36235	0.258004	OL	DST
NC_056076.1	22585001	22605001	4.35874	0.617659	OL	DTNA
NC_056076.1	22590001	22610001	4.42021	0.613007	OL	DTNA
NC_056068.1	80980001	81000001	3.69529	0.232142	OL	DTX4
NC_056068.1	80985001	81005001	3.1623	0.261286	OL	DTX4
NC_056068.1	80990001	81010001	4.38311	0.250647	OL	DTX4
NC_056068.1	80995001	81015001	5.26795	0.234303	OL	DTX4
NC_056068.1	81000001	81020001	5.23113	0.245258	OL	DTX4;LOC101109907
NC_056068.1	81005001	81025001	5.58041	0.233256	OL	DTX4;LOC101109907
NC_056068.1	81010001	81030001	3.20853	0.277556	OL	DTX4;LOC101109907
NC_056068.1	81015001	81035001	2.88503	0.254566	OL	DTX4;LOC101109907
NC_056068.1	80955001	80975001	3.93025	0.223149	OL	DTX4;LOC121816730
NC_056068.1	80960001	80980001	4.06086	0.228163	OL	DTX4;LOC121816730
NC_056068.1	80965001	80985001	5.34662	0.237176	OL	DTX4;LOC121816730
NC_056068.1	80970001	80990001	5.64484	0.218724	OL	DTX4;LOC121816730
NC_056068.1	80975001	80995001	3.47185	0.288258	OL	DTX4;LOC121816730
NC_056067.1	35045001	35065001	3.36937	0.212766	OL	DUS2
NC_056074.1	46355001	46375001	2.53249	0.283141	OL	DUSP8

NC_056074.1	46365001	46385001	2.47476	0.28685	OL	DUSP8
NC_056056.1	80500001	80520001	3.01379	0.24409	OL	DYNC2LI1;PLEKHH2
NC_056056.1	80505001	80525001	3.20263	0.249609	OL	DYNC2LI1;PLEKHH2
NC_056054.1	191735001	191755001	3.04333	0.287573	OL	DYNLT2B;TM4SF19
NC_056054.1	187190001	187210001	2.44678	0.2257	OL	EAF2;SLC15A2
NC_056055.1	12090001	12110001	2.47786	0.255341	OL	ECPAS
NC_056055.1	12095001	12115001	2.58918	0.276431	OL	ECPAS
NC_056055.1	12100001	12120001	3.54545	0.331397	OL	ECPAS
NC_056055.1	12105001	12125001	2.54366	0.260539	OL	ECPAS
NC_056055.1	12110001	12130001	4.39485	0.387346	OL	ECPAS
NC_056055.1	12115001	12135001	3.57303	0.38689	OL	ECPAS;LOC101112627
NC_056080.1	62580001	62600001	3.05	0.221222	OL	EDA
NC_056080.1	62670001	62690001	6.28282	0.252394	OL	EDA
NC_056080.1	62675001	62695001	9.6768	0.375666	OL	EDA
NC_056080.1	62680001	62700001	13.0887	0.378113	OL	EDA
NC_056080.1	62685001	62705001	15.0894	0.413213	OL	EDA
NC_056080.1	62690001	62710001	12.1146	0.423527	OL	EDA
NC_056080.1	62695001	62715001	15.6204	0.366236	OL	EDA
NC_056080.1	62725001	62745001	9.5366	0.257997	OL	EDA
NC_056080.1	62730001	62750001	2.90425	0.25037	OL	EDA
NC_056065.1	31495001	31515001	2.46859	0.258702	OL	EFCAB2
NC_056065.1	31500001	31520001	2.58342	0.260847	OL	EFCAB2
NC_056065.1	31505001	31525001	2.60996	0.255535	OL	EFCAB2
NC_056065.1	31510001	31530001	2.51764	0.243182	OL	EFCAB2
NC_056065.1	31515001	31535001	2.38524	0.253608	OL	EFCAB2
NW_02459982	550001	570001	5.89116	0.302949	OL	EFL1
NW_02459982	555001	575001	5.27204	0.282962	OL	EFL1
NW_02459982	560001	580001	3.22824	0.235302	OL	EFL1
NW_02459982	615001	635001	2.36364	0.229837	OL	EFL1
NC_056062.1	22210001	22230001	16.2174	0.338823	OL	EFR3A
NC_056062.1	22200001	22220001	12.457	0.238907	OL	EFR3A;OC90
NC_056062.1	22205001	22225001	13.6183	0.295767	OL	EFR3A;OC90
NC_056064.1	44305001	44325001	9.94928	0.245239	OL	EFTUD2;LOC114116839
NC_056056.1	38025001	38045001	12.5322	0.348352	OL	EHD3
NC_056056.1	38035001	38055001	8.01144	0.350727	OL	EHD3
NC_056056.1	38040001	38060001	4.6345	0.275386	OL	EHD3
NC_056062.1	60720001	60740001	4.17231	0.216352	OL	EIF3H
NC_056062.1	60725001	60745001	3.09681	0.228922	OL	EIF3H
NC_056062.1	60730001	60750001	2.75283	0.258748	OL	EIF3H
NC_056072.1	29935001	29955001	6.03806	0.273253	OL	EIF4E3;GPR27
NC_056072.1	29940001	29960001	6.36017	0.244048	OL	EIF4E3;GPR27
NC_056072.1	29930001	29950001	4.4273	0.235018	OL	EIF4E3;GPR27;PROK2
NC_056077.1	41695001	41715001	3.12716	0.217489	OL	ELFN1
NC_056077.1	41625001	41645001	2.4278	0.241588	OL	ELFN1;MAD1L1
NC_056056.1	166070001	166090001	5.38842	0.238365	OL	ELK3
NC_056056.1	166080001	166100001	3.42406	0.214914	OL	ELK3
NC_056057.1	61580001	61600001	7.74225	0.21771	OL	ELMO1
NC_056057.1	61600001	61620001	8.43993	0.253462	OL	ELMO1
NC_056060.1	98475001	98495001	7.26241	0.249072	OL	EML5
NC_056060.1	98480001	98500001	13.6154	0.271889	OL	EML5
NC_056060.1	98485001	98505001	9.45276	0.260041	OL	EML5
NC_056060.1	98490001	98510001	7.45834	0.250229	OL	EML5
NC_056060.1	98495001	98515001	5.91091	0.230696	OL	EML5
NC_056062.1	93955001	93975001	6.06926	0.400943	OL	ENPP2
NC_056062.1	93980001	94000001	6.68447	0.354958	OL	ENPP2
NC_056062.1	93985001	94005001	5.68309	0.307246	OL	ENPP2
NC_056062.1	93990001	94010001	3.26721	0.285873	OL	ENPP2
NC_056073.1	19335001	19355001	6.66788	0.243529	OL	ENPP4;ENPP5
NC_056073.1	19340001	19360001	4.32741	0.220863	OL	ENPP4;ENPP5
NC_056073.1	19345001	19365001	3.39386	0.260497	OL	ENPP4;ENPP5
NC_056056.1	78020001	78040001	2.48299	0.225288	OL	EPAS1
NC_056056.1	78030001	78050001	3.48293	0.242292	OL	EPAS1
NC_056054.1	158330001	158350001	4.57	0.299296	OL	EPHA3
NC_056054.1	158335001	158355001	2.73218	0.24031	OL	EPHA3
NC_056054.1	162575001	162595001	2.88969	0.354628	OL	EPHA6
NC_056054.1	162580001	162600001	3.22286	0.393635	OL	EPHA6
NC_056054.1	162585001	162605001	4.58964	0.447333	OL	EPHA6
NC_056054.1	162590001	162610001	4.68018	0.445122	OL	EPHA6
NC_056054.1	162595001	162615001	2.4313	0.399833	OL	EPHA6
NC_056056.1	199850001	199870001	4.28438	0.280786	OL	EPS8
NC_056056.1	199855001	199875001	6.7739	0.305397	OL	EPS8
NC_056056.1	199860001	199880001	4.7871	0.300266	OL	EPS8
NC_056056.1	199865001	199885001	3.87392	0.303569	OL	EPS8
NC_056056.1	199870001	199890001	4.14576	0.221278	OL	EPS8

NC_056056.1	199875001	199895001	3.7877	0.215817	OL	EPS8
NC_056056.1	199880001	199900001	3.96153	0.214363	OL	EPS8
NC_056056.1	199885001	199905001	4.02926	0.212353	OL	EPS8
NC_056056.1	199920001	199940001	3.7205	0.214673	OL	EPS8
NC_056056.1	199925001	199945001	6.26511	0.24481	OL	EPS8
NC_056056.1	199930001	199950001	4.37291	0.231865	OL	EPS8
NC_056055.1	214045001	214065001	3.38989	0.297161	OL	ERBB4
NC_056055.1	214050001	214070001	5.76682	0.359507	OL	ERBB4
NC_056055.1	214055001	214075001	8.91576	0.419089	OL	ERBB4
NC_056055.1	214060001	214080001	22.4275	0.455662	OL	ERBB4
NC_056055.1	214065001	214085001	20.5139	0.466605	OL	ERBB4
NC_056055.1	214070001	214090001	18.7863	0.466006	OL	ERBB4
NC_056055.1	214075001	214095001	13.6607	0.48674	OL	ERBB4
NC_056055.1	214080001	214100001	4.98208	0.508915	OL	ERBB4
NC_056055.1	214085001	214105001	2.60548	0.521471	OL	ERBB4
NC_056055.1	214285001	214305001	2.34393	0.22345	OL	ERBB4
NC_056055.1	214290001	214310001	2.4458	0.235983	OL	ERBB4
NC_056055.1	214295001	214315001	2.43136	0.230128	OL	ERBB4
NC_056056.1	213710001	213730001	4.514	0.218215	OL	ERC1
NC_056056.1	213715001	213735001	5.34069	0.237694	OL	ERC1
NC_056056.1	213870001	213890001	2.48474	0.356181	OL	ERC1
NC_056056.1	213875001	213895001	8.41026	0.323385	OL	ERC1
NC_056072.1	44985001	45005001	2.37871	0.400089	OL	ERC2
NC_056072.1	44990001	45010001	3.55091	0.449877	OL	ERC2
NC_056072.1	44995001	45015001	5.30995	0.46079	OL	ERC2
NC_056072.1	45000001	45020001	3.4112	0.314184	OL	ERC2
NC_056072.1	45115001	45135001	2.66571	0.28391	OL	ERC2
NC_056072.1	45120001	45140001	2.56463	0.255044	OL	ERC2
NC_056054.1	271450001	271470001	4.30116	0.222623	OL	ERG
NC_056054.1	271530001	271550001	3.15034	0.232966	OL	ERG
NC_056054.1	271535001	271555001	3.38179	0.248179	OL	ERG
NC_056054.1	271540001	271560001	3.4115	0.224559	OL	ERG
NC_056075.1	20835001	20855001	2.38953	0.289442	OL	ERLIN1
NC_056075.1	20840001	20860001	2.82754	0.324403	OL	ERLIN1
NC_056075.1	20845001	20865001	3.09673	0.344357	OL	ERLIN1
NC_056075.1	20850001	20870001	3.70391	0.377997	OL	ERLIN1
NC_056075.1	20855001	20875001	3.56787	0.383365	OL	ERLIN1
NC_056060.1	11475001	11495001	8.01544	0.271129	OL	ERO1A
NC_056060.1	11480001	11500001	7.10429	0.318946	OL	ERO1A
NC_056060.1	11485001	11505001	3.69014	0.332386	OL	ERO1A
NC_056054.1	3155001	3175001	5.38826	0.263129	OL	ESPNL;KLHL30
NC_056054.1	3160001	3180001	6.9426	0.263912	OL	ESPNL;KLHL30
NC_056054.1	3165001	3185001	9.85417	0.275082	OL	ESPNL;KLHL30
NC_056074.1	29260001	29280001	2.96706	0.22252	OL	ETS1
NC_056074.1	29265001	29285001	3.17204	0.232686	OL	ETS1
NC_056074.1	29270001	29290001	3.51408	0.279056	OL	ETS1
NC_056071.1	65400001	65420001	3.60693	0.241439	OL	EXOC3L4
NC_056071.1	65390001	65410001	3.15239	0.240707	OL	EXOC3L4;LBHD2
NC_056071.1	65395001	65415001	3.60835	0.245837	OL	EXOC3L4;LBHD2
NC_056071.1	65405001	65425001	5.6343	0.27959	OL	EXOC3L4;LOC105605780
NC_056071.1	65410001	65430001	6.58844	0.281889	OL	EXOC3L4;LOC105605780
NC_056071.1	65415001	65435001	8.57142	0.286697	OL	EXOC3L4;LOC105605780
NC_056057.1	98755001	98775001	2.6336	0.237923	OL	EXOC4
NC_056065.1	41785001	41805001	6.57949	0.450982	OL	EXOSC10
NC_056065.1	41790001	41810001	4.86363	0.407312	OL	EXOSC10
NC_056065.1	41795001	41815001	2.93011	0.327081	OL	EXOSC10
NC_056065.1	41800001	41820001	3.09729	0.306801	OL	EXOSC10
NC_056065.1	41805001	41825001	2.52691	0.266952	OL	EXOSC10
NC_056065.1	41780001	41800001	8.36667	0.468363	OL	EXOSC10;MTOR
NC_056059.1	36620001	36640001	3.0658	0.324443	OL	FAM13A
NC_056059.1	36625001	36645001	6.64669	0.356125	OL	FAM13A
NC_056059.1	36660001	36680001	13.5196	0.342584	OL	FAM13A
NC_056059.1	36665001	36685001	6.39478	0.306874	OL	FAM13A
NC_056059.1	37970001	37990001	10.0563	0.265129	OL	FAM184B
NC_056071.1	25970001	25990001	2.39663	0.397061	OL	FAM189A1;NSMCE3
NC_056057.1	73630001	73650001	2.48326	0.214214	OL	FAM221A;STK31
NC_056057.1	73635001	73655001	2.36629	0.266824	OL	FAM221A;STK31
NC_056054.1	262285001	262305001	3.20194	0.25063	OL	FAM3B;MX2
NC_056058.1	104730001	104750001	2.59478	0.223668	OL	FBXL17
NC_056058.1	104735001	104755001	2.87393	0.215254	OL	FBXL17
NC_056058.1	104740001	104760001	3.77063	0.221583	OL	FBXL17
NC_056062.1	77160001	77180001	4.51111	0.37784	OL	FBXO43
NC_056062.1	77165001	77185001	4.47883	0.417406	OL	FBXO43
NC_056062.1	77170001	77190001	2.46928	0.327305	OL	FBXO43

NC_056055.1	2760001	2780001	13.3464	0.61342	OL	FBXW2
NC_056055.1	2765001	2785001	10.3084	0.586448	OL	FBXW2
NC_056055.1	2770001	2790001	5.6279	0.563007	OL	FBXW2
NC_056055.1	2775001	2795001	4.39502	0.474301	OL	FBXW2
NC_056055.1	2780001	2800001	3.00337	0.326844	OL	FBXW2
NC_056055.1	2805001	2805001	2.43196	0.270149	OL	FBXW2
NC_056070.1	5390001	5410001	3.1481	0.247366	OL	FBXW7
NC_056070.1	5395001	5415001	5.70952	0.294091	OL	FBXW7
NC_056070.1	5400001	5420001	6.98677	0.302729	OL	FBXW7
NC_056070.1	5405001	5425001	11.7946	0.302658	OL	FBXW7
NC_056070.1	5410001	5430001	4.34932	0.28977	OL	FBXW7
NC_056054.1	112965001	112985001	7.34693	0.224237	OL	FCGR3A
NC_056058.1	105355001	105375001	2.84787	0.322889	OL	FER
NC_056058.1	105360001	105380001	4.02466	0.338465	OL	FER
NC_056058.1	105365001	105385001	4.07587	0.25785	OL	FER
NC_056062.1	28915001	28935001	2.69697	0.232576	OL	FER1L6
NC_056063.1	77695001	77715001	7.58349	0.238187	OL	FGF14
NC_056072.1	40960001	40980001	3.33099	0.226871	OL	FHIT
NC_056073.1	27400001	27420001	3.02352	0.21557	OL	FLOT1;IER3;MDC1;TUBB
NC_056073.1	27405001	27425001	4.28142	0.215573	OL	FLOT1;MDC1;TUBB
NC_056073.1	27410001	27430001	5.8155	0.235128	OL	FLOT1;MDC1;TUBB
NC_056055.1	217355001	217375001	7.45902	0.217639	OL	FN1
NC_056055.1	217360001	217380001	3.0638	0.222394	OL	FN1
NC_056055.1	217365001	217385001	2.41685	0.242812	OL	FN1
NC_056058.1	20465001	20485001	12.0533	0.3695	OL	FNIP1;MEIKIN
NC_056058.1	20470001	20490001	4.41327	0.34021	OL	FNIP1;MEIKIN
NC_056058.1	20475001	20495001	2.98675	0.312488	OL	FNIP1;MEIKIN
NC_056058.1	20480001	20500001	2.41205	0.292114	OL	FNIP1;MEIKIN
NC_056055.1	89350001	89370001	2.5445	0.356708	OL	FOCAD
NC_056056.1	76090001	76110001	6.82715	0.25448	OL	FOXN2
NC_056056.1	76095001	76115001	4.9564	0.247778	OL	FOXN2
NC_056056.1	76100001	76120001	2.6731	0.232286	OL	FOXN2
NC_056060.1	99095001	99115001	4.06177	0.225231	OL	FOXN3
NC_056063.1	22185001	22205001	5.89646	0.235589	OL	FOXO1
NC_056063.1	22190001	22210001	23.325	0.290977	OL	FOXO1
NC_056063.1	22195001	22215001	12.3182	0.281241	OL	FOXO1
NC_056063.1	22200001	22220001	4.08795	0.224691	OL	FOXO1
NC_056057.1	55480001	55500001	4.05499	0.241391	OL	FOXP2
NC_056057.1	55485001	55505001	6.74611	0.316196	OL	FOXP2
NC_056057.1	55510001	55530001	34.4	0.225947	OL	FOXP2
NC_056057.1	55515001	55535001	35.8809	0.256911	OL	FOXP2
NC_056057.1	55520001	55540001	10.6923	0.278269	OL	FOXP2
NC_056057.1	55525001	55545001	8.41562	0.271351	OL	FOXP2
NC_056057.1	55530001	55550001	4.52614	0.216206	OL	FOXP2
NC_056057.1	55750001	55770001	2.51072	0.260517	OL	FOXP2
NC_056066.1	27700001	27720001	2.86036	0.338919	OL	FRMD4A
NC_056066.1	27705001	27725001	4.90507	0.399821	OL	FRMD4A
NC_056066.1	27710001	27730001	5.81468	0.409086	OL	FRMD4A
NC_056066.1	27740001	27760001	18.3221	0.414852	OL	FRMD4A
NC_056066.1	27745001	27765001	4.52579	0.3395	OL	FRMD4A
NC_056066.1	27780001	27800001	12.4845	0.28764	OL	FRMD4A
NC_056066.1	27785001	27805001	23.8033	0.28614	OL	FRMD4A
NC_056066.1	27790001	27810001	8.16259	0.240981	OL	FRMD4A
NC_056063.1	29215001	29235001	2.48076	0.236432	OL	FRY
NC_056072.1	53285001	53305001	2.62953	0.240376	OL	FYCO1;XCR1
NC_056072.1	53290001	53310001	3.30672	0.311111	OL	FYCO1;XCR1
NC_056072.1	53295001	53315001	7.9	0.361477	OL	FYCO1;XCR1
NC_056072.1	53300001	53320001	3.7704	0.288614	OL	FYCO1;XCR1
NC_056054.1	131255001	131275001	3.47223	0.2337	OL	GABPA
NC_056054.1	131260001	131280001	6.75031	0.308338	OL	GABPA
NC_056054.1	131265001	131285001	11.7506	0.300058	OL	GABPA
NC_056054.1	131270001	131290001	21.201	0.288239	OL	GABPA
NC_056055.1	107540001	107560001	16.5408	0.22702	OL	GALNT7
NC_056076.1	34595001	34615001	2.65841	0.254597	OL	GATA6
NC_056056.1	34540001	34560001	3.86321	0.288204	OL	GCKR
NC_056056.1	34545001	34565001	4.9524	0.298274	OL	GCKR
NC_056056.1	34550001	34570001	9.54288	0.299904	OL	GCKR
NC_056067.1	7260001	7280001	4.12761	0.217379	OL	GCSH;PKD1L2
NC_056067.1	7265001	7285001	5.71959	0.228758	OL	GCSH;PKD1L2
NC_056054.1	95265001	95285001	2.72187	0.354086	OL	GDAP2
NC_056058.1	63845001	63865001	5.9932	0.224038	OL	GEMIN5
NC_056058.1	63850001	63870001	4.36475	0.258632	OL	GEMIN5
NC_056058.1	63855001	63875001	2.79444	0.315071	OL	GEMIN5
NC_056067.1	34790001	34810001	2.63975	0.277752	OL	GFOD2



NC_056067.1	34795001	34815001	3.11428	0.253298	OL	GFOD2
NC_056067.1	34800001	34820001	3.1156	0.299741	OL	GFOD2
NC_056067.1	34805001	34825001	3.25325	0.28857	OL	GFOD2
NC_056057.1	80435001	80455001	2.96761	0.27495	OL	GLI3
NC_056057.1	80465001	80485001	6.79295	0.288094	OL	GLI3
NC_056057.1	80470001	80490001	3.23321	0.398399	OL	GLI3
NC_056057.1	80475001	80495001	3.57516	0.333577	OL	GLI3
NC_056057.1	80480001	80500001	2.46835	0.32611	OL	GLI3
NC_056057.1	80685001	80705001	2.9839	0.332963	OL	GLI3
NC_056057.1	80690001	80710001	3.32397	0.238376	OL	GLI3
NC_056057.1	80695001	80715001	2.98279	0.223104	OL	GLI3
NC_056065.1	62900001	62920001	16.6776	0.216303	OL	GLUL
NC_056068.1	80870001	80890001	6.12433	0.218945	OL	GLYATL2
NC_056077.1	4440001	4460001	3.26373	0.350054	OL	GLYR1;ROGDI
NC_056077.1	4445001	4465001	3.17352	0.33902	OL	GLYR1;ROGDI
NC_056077.1	4450001	4470001	2.69125	0.321422	OL	GLYR1;ROGDI
NC_056077.1	4475001	4495001	3.66374	0.37324	OL	GLYR1;UBN1
NC_056077.1	4480001	4500001	4.53512	0.408066	OL	GLYR1;UBN1
NC_056077.1	4485001	4505001	4.25244	0.387536	OL	GLYR1;UBN1
NC_056073.1	50585001	50605001	2.89473	0.279762	OL	GMDS
NC_056073.1	50635001	50655001	8.31657	0.364098	OL	GMDS
NC_056073.1	50640001	50660001	10.327	0.381661	OL	GMDS
NC_056073.1	50645001	50665001	13.825	0.390549	OL	GMDS
NC_056073.1	50650001	50670001	17.3875	0.397978	OL	GMDS
NC_056060.1	65075001	65095001	2.35435	0.285971	OL	GMFB
NC_056060.1	65080001	65100001	2.56041	0.306554	OL	GMFB
NC_056054.1	232505001	232525001	10.2367	0.222064	OL	GMPS
NC_056054.1	232510001	232530001	8.92558	0.215186	OL	GMPS
NC_056054.1	232515001	232535001	5.38943	0.220341	OL	GMPS
NC_056054.1	232520001	232540001	5.77098	0.220022	OL	GMPS
NC_056054.1	232525001	232545001	9.24755	0.236859	OL	GMPS
NC_056054.1	232530001	232550001	10.05	0.242134	OL	GMPS
NC_056077.1	1605001	1625001	2.84191	0.271233	OL	GNPTG;UNKL
NC_056077.1	1610001	1630001	2.76232	0.259891	OL	GNPTG;UNKL
NC_056055.1	153185001	153205001	11.2707	0.218743	OL	GPD2
NC_056055.1	153190001	153210001	8.63794	0.223746	OL	GPD2
NC_056080.1	11935001	11955001	4.9722	0.439706	OL	GPM6B
NC_056080.1	11940001	11960001	7.06945	0.445259	OL	GPM6B
NC_056080.1	11945001	11965001	4.02101	0.479446	OL	GPM6B
NC_056080.1	12035001	12055001	2.35198	0.263116	OL	GPM6B
NC_056055.1	135545001	135565001	2.44396	0.363039	OL	GPR155
NC_056055.1	135550001	135570001	3.64718	0.428146	OL	GPR155
NC_056055.1	135555001	135575001	7.132	0.502185	OL	GPR155
NC_056055.1	135560001	135580001	11.5714	0.537059	OL	GPR155
NC_056055.1	135565001	135585001	3.65492	0.400634	OL	GPR155
NC_056076.1	35215001	35235001	3.70079	0.426406	OL	GREB1L
NC_056076.1	35220001	35240001	3.08259	0.398396	OL	GREB1L
NC_056076.1	35205001	35225001	2.51013	0.36249	OL	GREB1L;LOC114110473
NC_056076.1	35210001	35230001	2.75791	0.410951	OL	GREB1L;LOC114110473
NC_056068.1	2075001	2095001	3.53196	0.329643	OL	GRIA4
NC_056068.1	2080001	2100001	34.8687	0.461045	OL	GRIA4
NC_056068.1	2085001	2105001	54.3139	0.4424	OL	GRIA4
NC_056068.1	2090001	2110001	32.9992	0.419382	OL	GRIA4
NC_056068.1	2095001	2115001	26.5744	0.378625	OL	GRIA4
NC_056068.1	2100001	2120001	26.0074	0.343354	OL	GRIA4
NC_056068.1	2105001	2125001	19.695	0.31663	OL	GRIA4
NC_056068.1	2110001	2130001	29.7143	0.23913	OL	GRIA4
NC_056059.1	32110001	32130001	2.6007	0.296308	OL	GRID2
NC_056059.1	32115001	32135001	2.7227	0.303652	OL	GRID2
NC_056059.1	32210001	32230001	3.67154	0.215816	OL	GRID2
NC_056059.1	32225001	32245001	3.45214	0.248898	OL	GRID2
NC_056059.1	32230001	32250001	5.31135	0.246053	OL	GRID2
NC_056059.1	32235001	32255001	4.83831	0.232841	OL	GRID2
NC_056059.1	32240001	32260001	5.12685	0.241169	OL	GRID2
NC_056054.1	127115001	127135001	4.84616	0.213601	OL	GRIK1
NC_056068.1	31035001	31055001	3.04736	0.223764	OL	GRIK4
NC_056068.1	31040001	31060001	6.55526	0.230097	OL	GRIK4
NC_056056.1	152885001	152905001	12.34	0.217141	OL	GRIP1
NC_056074.1	6375001	6395001	2.69746	0.223177	OL	GRM5
NC_056074.1	6380001	6400001	3.02607	0.232691	OL	GRM5
NC_056074.1	6385001	6405001	3.94614	0.298395	OL	GRM5
NC_056074.1	6390001	6410001	2.39466	0.258359	OL	GRM5
NC_056057.1	92455001	92475001	2.36263	0.218657	OL	GRM8
NC_056057.1	92480001	92500001	2.49821	0.512222	OL	GRM8

NC_056057.1	92485001	92505001	3.67321	0.570484	OL	GRM8
NC_056057.1	92490001	92510001	3.63037	0.568083	OL	GRM8
NC_056057.1	92495001	92515001	2.73966	0.51551	OL	GRM8
NC_056057.1	92950001	92970001	2.80737	0.225277	OL	GRM8
NC_056077.1	25855001	25875001	2.39761	0.21803	OL	GSG1L
NC_056077.1	25860001	25880001	2.68181	0.237679	OL	GSG1L
NC_056077.1	26075001	26095001	7.03434	0.291229	OL	GSG1L
NC_056077.1	26080001	26100001	6.9876	0.330884	OL	GSG1L
NC_056077.1	26085001	26105001	5.25887	0.355219	OL	GSG1L
NC_056077.1	26090001	26110001	4.68076	0.368813	OL	GSG1L
NC_056077.1	26095001	26115001	2.75	0.297301	OL	GSG1L
NC_056061.1	26695001	26715001	7.60499	0.216222	OL	GTF3C6
NC_056056.1	200825001	200845001	2.58506	0.277666	OL	GUCY2C
NC_056056.1	200830001	200850001	2.60056	0.282407	OL	GUCY2C
NC_056055.1	120940001	120960001	42.7352	0.259433	OL	GULP1
NC_056055.1	120945001	120965001	19.0272	0.229096	OL	GULP1
NC_056055.1	120950001	120970001	15.0146	0.311864	OL	GULP1
NC_056055.1	120955001	120975001	4.8832	0.220485	OL	GULP1
NC_056055.1	120965001	120985001	4.07424	0.217408	OL	GULP1
NC_056055.1	120975001	120995001	3.62768	0.222033	OL	GULP1
NC_056055.1	120980001	121000001	4.659	0.262806	OL	GULP1
NC_056055.1	120985001	121005001	5.42104	0.275826	OL	GULP1
NC_056055.1	120990001	121010001	7.43207	0.265867	OL	GULP1
NC_056055.1	120995001	121015001	14.0529	0.334304	OL	GULP1
NC_056055.1	121000001	121020001	5.22405	0.222341	OL	GULP1
NC_056055.1	121030001	121050001	8.35895	0.213245	OL	GULP1
NC_056055.1	121035001	121055001	6.41351	0.224817	OL	GULP1
NC_056055.1	121040001	121060001	5.72478	0.281435	OL	GULP1
NC_056055.1	121045001	121065001	3.10197	0.366205	OL	GULP1
NC_056055.1	121050001	121070001	2.88763	0.367404	OL	GULP1
NC_056055.1	121055001	121075001	2.85864	0.343209	OL	GULP1
NC_056067.1	45280001	45300001	3.18182	0.364954	OL	HAMP;MAG
NC_056067.1	45275001	45295001	3.5079	0.354119	OL	HAMP;MAG;USF2
NC_056057.1	27615001	27635001	11.5534	0.278395	OL	HDAC9
NC_056057.1	27620001	27640001	5.67337	0.25169	OL	HDAC9
NC_056057.1	79200001	79220001	3.99344	0.305029	OL	HECW1
NC_056057.1	79205001	79225001	5.39663	0.441898	OL	HECW1
NC_056057.1	79210001	79230001	5.18672	0.502176	OL	HECW1
NC_056059.1	98900001	98920001	2.74303	0.296068	OL	HELQ
NC_056064.1	62350001	62370001	2.90391	0.223439	OL	HELZ
NC_056064.1	62355001	62375001	3.24826	0.266687	OL	HELZ
NC_056064.1	62360001	62380001	3.18556	0.277352	OL	HELZ
NC_056064.1	62365001	62385001	3.1981	0.276492	OL	HELZ
NC_056064.1	62370001	62390001	2.74339	0.269252	OL	HELZ
NC_056064.1	62375001	62395001	2.85131	0.267219	OL	HELZ
NC_056064.1	62380001	62400001	2.66878	0.270159	OL	HELZ
NC_056064.1	62385001	62405001	2.43788	0.26113	OL	HELZ
NC_056064.1	62390001	62410001	2.66667	0.262561	OL	HELZ
NC_056064.1	62395001	62415001	2.64878	0.25041	OL	HELZ
NC_056064.1	62400001	62420001	2.64067	0.227715	OL	HELZ
NC_056064.1	62405001	62425001	2.90209	0.251433	OL	HELZ
NC_056064.1	62410001	62430001	2.4725	0.251165	OL	HELZ
NC_056064.1	62415001	62435001	2.50605	0.265498	OL	HELZ
NC_056064.1	62420001	62440001	2.58193	0.275411	OL	HELZ
NC_056064.1	62425001	62445001	2.6779	0.263624	OL	HELZ;LOC106991442
NC_056064.1	62430001	62450001	2.73518	0.26329	OL	HELZ;LOC106991442
NC_056064.1	62435001	62455001	2.33825	0.237347	OL	HELZ;LOC106991442
NC_056065.1	49645001	49665001	2.5129	0.221565	OL	HES5;PANK4
NC_056065.1	49650001	49670001	2.46823	0.215438	OL	HES5;PANK4
NC_056057.1	70105001	70125001	2.43333	0.236666	OL	HIBADH
NC_056060.1	10400001	10420001	2.34223	0.247549	OL	HOMER1
NC_056060.1	10405001	10425001	2.4613	0.278309	OL	HOMER1
NC_056060.1	10410001	10430001	3.62852	0.274207	OL	HOMER1
NC_056060.1	10415001	10435001	4.00603	0.253066	OL	HOMER1
NC_056060.1	10420001	10440001	4.94213	0.281207	OL	HOMER1
NC_056060.1	10425001	10445001	2.45894	0.258344	OL	HOMER1
NC_056070.1	69155001	69175001	3.65782	0.277226	OL	HORMAD2
NC_056070.1	69160001	69180001	9.18017	0.338125	OL	HORMAD2
NC_056070.1	69165001	69185001	13.973	0.371926	OL	HORMAD2
NC_056070.1	69170001	69190001	4.00587	0.257758	OL	HORMAD2
NC_056064.1	31555001	31575001	3.38224	0.268501	OL	HS3ST3A1
NC_056064.1	31560001	31580001	3.06139	0.296483	OL	HS3ST3A1
NC_056064.1	31565001	31585001	2.67621	0.28725	OL	HS3ST3A1
NC_056064.1	9090001	9110001	6.14648	0.473195	OL	HSF5

NC_056064.1	9095001	9115001	4.34444	0.39805	OL	HSF5
NC_056064.1	9100001	9120001	2.51961	0.295296	OL	HSF5
NC_056064.1	9070001	9090001	2.91072	0.301875	OL	HSF5;RNF43
NC_056064.1	9075001	9095001	5.6012	0.384563	OL	HSF5;RNF43
NC_056064.1	9080001	9100001	14.9714	0.464432	OL	HSF5;RNF43
NC_056075.1	36740001	36760001	2.34904	0.25842	OL	HSPA12A
NC_056075.1	36745001	36765001	3.30209	0.221734	OL	HSPA12A
NC_056054.1	112955001	112975001	10.4909	0.255942	OL	HSPA6
NC_056054.1	112950001	112970001	6.56404	0.247626	OL	HSPA6;LOC101106730
NC_056068.1	24150001	24170001	4.05389	0.336681	OL	HTR3B
NC_056055.1	90165001	90185001	3.74794	0.265338	OL	IFN1
NC_056055.1	90170001	90190001	2.56397	0.273354	OL	IFN1
NC_056055.1	242485001	242505001	7.12783	0.22417	OL	IFNLR1;IL22RA1
NC_056057.1	57485001	57505001	3.15516	0.343933	OL	IFRD1
NC_056057.1	57490001	57510001	4.4601	0.314405	OL	IFRD1
NC_056068.1	28925001	28945001	5.79519	0.324485	OL	IFT46;KMT2A;TMEM25;TTC36
NC_056068.1	28935001	28955001	2.48231	0.232798	OL	IFT46;TMEM25
NC_056068.1	28930001	28950001	4.28859	0.350269	OL	IFT46;TMEM25;TTC36
NC_056060.1	12235001	12255001	4.77004	0.346326	OL	IGDCC3
NC_056060.1	12240001	12260001	3.72693	0.40851	OL	IGDCC3
NC_056060.1	12245001	12265001	4.11054	0.379209	OL	IGDCC3
NC_056060.1	12250001	12270001	2.824	0.328879	OL	IGDCC3
NC_056074.1	23565001	23585001	2.45174	0.283141	OL	IGSF22;PTPN5
NC_056056.1	99530001	99550001	2.36733	0.28072	OL	IL1R1
NC_056056.1	99535001	99555001	2.5721	0.266825	OL	IL1R1
NC_056056.1	99540001	99560001	2.34393	0.273612	OL	IL1R1
NC_056056.1	99545001	99565001	2.44261	0.252309	OL	IL1R1
NC_056056.1	99565001	99585001	2.46608	0.340202	OL	IL1R1
NC_056056.1	99570001	99590001	2.82822	0.301819	OL	IL1R1
NC_056056.1	99575001	99595001	2.82817	0.335467	OL	IL1R1
NC_056056.1	99580001	99600001	4.33426	0.358543	OL	IL1R1
NC_056056.1	99585001	99605001	4.28134	0.331581	OL	IL1R1
NC_056056.1	99590001	99610001	4.25238	0.309038	OL	IL1R1
NC_056056.1	99595001	99615001	4.70841	0.213893	OL	IL1R1
NC_056055.1	242490001	242510001	11.7256	0.228318	OL	IL22RA1
NC_056058.1	9965001	9985001	2.9462	0.225181	OL	IL27RA
NC_056058.1	9955001	9975001	2.52922	0.27249	OL	IL27RA;PALM3
NC_056058.1	9960001	9980001	2.65997	0.247669	OL	IL27RA;PALM3
NC_056058.1	9970001	9990001	2.90542	0.231053	OL	IL27RA;RLN3
NC_056058.1	9975001	9995001	2.77104	0.221561	OL	IL27RA;RLN3
NC_056057.1	58705001	58725001	5.41057	0.281698	OL	IMMP2L
NC_056057.1	58710001	58730001	4.56394	0.266742	OL	IMMP2L
NC_056057.1	58715001	58735001	3.89209	0.262712	OL	IMMP2L
NC_056057.1	58720001	58740001	3.92773	0.262188	OL	IMMP2L
NC_056057.1	58725001	58745001	2.59533	0.230605	OL	IMMP2L
NC_056057.1	58730001	58750001	2.65473	0.251089	OL	IMMP2L
NC_056057.1	58735001	58755001	2.97967	0.270821	OL	IMMP2L
NC_056057.1	58740001	58760001	2.81026	0.257271	OL	IMMP2L
NC_056057.1	58745001	58765001	2.88317	0.274527	OL	IMMP2L
NC_056057.1	58750001	58770001	2.82128	0.280015	OL	IMMP2L
NC_056057.1	58755001	58775001	3.22203	0.223686	OL	IMMP2L
NC_056057.1	59105001	59125001	2.80762	0.35387	OL	IMMP2L
NC_056057.1	59110001	59130001	4.21032	0.419364	OL	IMMP2L
NC_056057.1	59115001	59135001	5.22919	0.350674	OL	IMMP2L
NC_056057.1	59120001	59140001	8.1464	0.338857	OL	IMMP2L
NC_056057.1	59125001	59145001	3.49121	0.285257	OL	IMMP2L
NC_056057.1	59235001	59255001	2.44427	0.218317	OL	IMMP2L
NC_056057.1	59240001	59260001	2.68272	0.217617	OL	IMMP2L
NC_056061.1	2755001	2775001	3.27227	0.355742	OL	IMPG1
NC_056054.1	166630001	166650001	2.36596	0.250237	OL	IMPG2
NC_056077.1	41790001	41810001	4.34574	0.356867	OL	INTS1;MAFK
NC_056077.1	41795001	41815001	3.84379	0.308923	OL	INTS1;MAFK
NC_056077.1	41800001	41820001	3.23237	0.254377	OL	INTS1;MAFK
NC_056056.1	212905001	212925001	10.4059	0.478529	OL	IQSEC3
NC_056056.1	212910001	212930001	2.78912	0.387663	OL	IQSEC3
NC_056080.1	126425001	126445001	2.38198	0.261014	OL	IRS4
NC_056060.1	86835001	86855001	24.0512	0.365054	OL	ISM2;SPTLC2
NC_056055.1	128320001	128340001	2.56	0.239207	OL	ITGA4
NC_056066.1	29515001	29535001	3.19833	0.242805	OL	ITGA8
NC_056080.1	63985001	64005001	3.3077	0.371178	OL	ITGB1BP2;NONO
NC_056056.1	188865001	188885001	5.64487	0.236515	OL	ITPR2
NC_056056.1	188870001	188890001	6.59027	0.230498	OL	ITPR2
NC_056057.1	66440001	66460001	5.03581	0.220945	OL	ITPRID1
NC_056057.1	66445001	66465001	2.97301	0.289189	OL	ITPRID1

NC_056057.1	66460001	66480001	2.44927	0.287196	OL	ITPRID1
NC_056057.1	66465001	66485001	2.66915	0.230555	OL	ITPRID1
NC_056057.1	66470001	66490001	2.63877	0.225648	OL	ITPRID1
NC_056057.1	66475001	66495001	3.0014	0.2246	OL	ITPRID1
NC_056057.1	66480001	66500001	3.09707	0.217241	OL	ITPRID1
NC_056057.1	66490001	66510001	4.49914	0.220196	OL	ITPRID1
NC_056070.1	29180001	29200001	10.6532	0.266234	OL	JADE1;SCLT1
NC_056066.1	3770001	3790001	2.33548	0.288338	OL	JAG1
NC_056066.1	3775001	3795001	2.42947	0.247358	OL	JAG1
NC_056066.1	3780001	3800001	2.67557	0.219567	OL	JAG1
NC_056066.1	3785001	3805001	2.52694	0.235774	OL	JAG1;LOC121816277
NC_056055.1	73335001	73355001	2.86275	0.222665	OL	JAK2
NC_056055.1	73340001	73360001	2.46078	0.306821	OL	JAK2
NC_056055.1	73345001	73365001	3.79503	0.4292	OL	JAK2
NC_056055.1	73350001	73370001	7.28573	0.508053	OL	JAK2
NC_056055.1	73380001	73400001	7.43165	0.617845	OL	JAK2
NC_056055.1	73385001	73405001	3.01204	0.502801	OL	JAK2
NC_056064.1	41350001	41370001	5.03694	0.275947	OL	K38;V15
NC_056064.1	41355001	41375001	3.19647	0.259653	OL	K38;V15
NC_056054.1	189790001	189810001	2.39592	0.290106	OL	KALRN
NC_056054.1	189795001	189815001	2.71222	0.28684	OL	KALRN
NC_056056.1	211075001	211095001	3.33643	0.232872	OL	KCNA1
NC_056056.1	211080001	211100001	3.125	0.259758	OL	KCNA1
NC_056056.1	211085001	211105001	2.67639	0.283655	OL	KCNA1
NC_056056.1	211090001	211110001	2.58486	0.350388	OL	KCNA1
NC_056056.1	211095001	211115001	2.52035	0.336572	OL	KCNA1
NC_056056.1	211100001	211120001	2.66615	0.300318	OL	KCNA1
NC_056059.1	41440001	41460001	4.77062	0.261197	OL	KCNIP4
NC_056059.1	41445001	41465001	13.8225	0.307117	OL	KCNIP4
NC_056059.1	41450001	41470001	15.2543	0.318964	OL	KCNIP4
NC_056059.1	41455001	41475001	8.30987	0.28614	OL	KCNIP4
NC_056059.1	41460001	41480001	3.48766	0.246935	OL	KCNIP4
NC_056059.1	41675001	41695001	4.71968	0.230934	OL	KCNIP4
NC_056060.1	3120001	3140001	3.4691	0.240407	OL	KCNN2
NC_056074.1	45460001	45480001	15.2625	0.568594	OL	KCNQ1
NC_056074.1	45465001	45485001	9.81081	0.458639	OL	KCNQ1
NC_056074.1	45470001	45490001	8.4069	0.417538	OL	KCNQ1
NC_056074.1	45475001	45495001	6.92364	0.317419	OL	KCNQ1
NC_056074.1	45480001	45500001	3.21787	0.213124	OL	KCNQ1
NC_056065.1	6310001	6330001	2.39719	0.212913	OL	KCNT2
NC_056055.1	74795001	74815001	5.06046	0.228625	OL	KDM4C
NC_056055.1	74800001	74820001	4.34884	0.212459	OL	KDM4C
NC_056080.1	44090001	44110001	10.4667	0.308244	OL	KDM6A
NC_056080.1	44095001	44115001	9.50002	0.270833	OL	KDM6A
NC_056080.1	44100001	44120001	8.3179	0.240413	OL	KDM6A
NC_056058.1	91375001	91395001	4.20123	0.241512	OL	KIAA0825
NC_056058.1	91380001	91400001	6.58312	0.257984	OL	KIAA0825
NC_056073.1	38785001	38805001	3.90188	0.238064	OL	KIF13A
NC_056073.1	38790001	38810001	4.90195	0.236109	OL	KIF13A
NC_056073.1	38880001	38900001	2.58977	0.280309	OL	KIF13A
NC_056073.1	38930001	38950001	2.92107	0.256973	OL	KIF13A
NC_056073.1	38935001	38955001	3.40399	0.231556	OL	KIF13A
NC_056073.1	38940001	38960001	5.64164	0.218181	OL	KIF13A
NC_056074.1	27605001	27625001	2.84025	0.231273	OL	KIRREL3
NC_056074.1	27610001	27630001	5.70727	0.225753	OL	KIRREL3
NC_056074.1	27615001	27635001	7.37631	0.251835	OL	KIRREL3
NC_056074.1	27635001	27655001	2.38355	0.224277	OL	KIRREL3
NC_056074.1	27640001	27660001	2.94425	0.34489	OL	KIRREL3
NC_056074.1	27645001	27665001	2.98051	0.379599	OL	KIRREL3
NC_056074.1	27650001	27670001	2.95313	0.366357	OL	KIRREL3
NC_056074.1	27655001	27675001	2.94696	0.369417	OL	KIRREL3
NC_056059.1	70935001	70955001	2.4171	0.249063	OL	KIT
NC_056059.1	70945001	70965001	3.08815	0.268796	OL	KIT
NC_056063.1	49460001	49480001	2.83346	0.2299	OL	KLF12
NC_056063.1	49465001	49485001	2.99413	0.223675	OL	KLF12
NC_056063.1	49470001	49490001	2.90401	0.22016	OL	KLF12
NC_056063.1	44570001	44590001	6.69525	0.307186	OL	KLHL1
NC_056063.1	44575001	44595001	6.9664	0.303363	OL	KLHL1
NC_056063.1	44580001	44600001	7.30951	0.246149	OL	KLHL1
NC_056063.1	44585001	44605001	10.2604	0.234558	OL	KLHL1
NC_056063.1	44700001	44720001	6.13417	0.241151	OL	KLHL1
NC_056063.1	44705001	44725001	11.2129	0.281225	OL	KLHL1
NC_056063.1	44710001	44730001	14.5911	0.299888	OL	KLHL1
NC_056063.1	44715001	44735001	10.6782	0.292957	OL	KLHL1

NC_056063.1	44720001	44740001	6.37637	0.298102	OL	KLHL1
NC_056063.1	44725001	44745001	2.95164	0.264461	OL	KLHL1
NC_056063.1	44755001	44775001	3.66843	0.230578	OL	KLHL1
NC_056063.1	44760001	44780001	6.3699	0.214502	OL	KLHL1
NC_056063.1	44765001	44785001	12.0567	0.221162	OL	KLHL1
NC_056063.1	44770001	44790001	14.4806	0.2228	OL	KLHL1
NC_056063.1	44795001	44815001	23.1434	0.250693	OL	KLHL1
NC_056063.1	44800001	44820001	21.0091	0.270916	OL	KLHL1
NC_056063.1	44805001	44825001	19.9638	0.298895	OL	KLHL1
NC_056063.1	44810001	44830001	26.9104	0.302595	OL	KLHL1
NC_056063.1	44815001	44835001	32.6498	0.298053	OL	KLHL1
NC_056063.1	44820001	44840001	46.5386	0.289956	OL	KLHL1
NC_056063.1	44825001	44845001	49.5	0.270302	OL	KLHL1
NC_056063.1	44830001	44850001	29.5097	0.260939	OL	KLHL1
NC_056063.1	44835001	44855001	18.2374	0.222019	OL	KLHL1
NC_056063.1	44855001	44875001	29.8627	0.215991	OL	KLHL1
NC_056063.1	44860001	44880001	16.1267	0.253359	OL	KLHL1
NC_056063.1	44865001	44885001	17.6118	0.281723	OL	KLHL1
NC_056063.1	44870001	44890001	18.6671	0.320428	OL	KLHL1
NC_056063.1	44875001	44895001	16.5726	0.35706	OL	KLHL1
NC_056063.1	44880001	44900001	14.7146	0.359881	OL	KLHL1
NC_056063.1	44885001	44905001	5.82697	0.278779	OL	KLHL1
NC_056063.1	45005001	45025001	2.36188	0.216761	OL	KLHL1
NC_056063.1	45010001	45030001	2.474	0.271993	OL	KLHL1
NC_056063.1	45045001	45065001	2.91922	0.22883	OL	KLHL1
NC_056063.1	45050001	45070001	3.93088	0.265608	OL	KLHL1
NC_056063.1	45055001	45075001	3.44067	0.293874	OL	KLHL1
NC_056063.1	45060001	45080001	2.78912	0.31603	OL	KLHL1
NC_056063.1	45065001	45085001	2.45984	0.302188	OL	KLHL1
NC_056063.1	45080001	45100001	2.33281	0.28852	OL	KLHL1
NC_056063.1	45085001	45105001	2.51751	0.288475	OL	KLHL1
NC_056063.1	45090001	45110001	2.80466	0.251964	OL	KLHL1
NC_056056.1	31180001	31200001	2.38519	0.234715	OL	KLHL29
NC_056054.1	3150001	3170001	3.06463	0.289407	OL	KLHL30
NC_056059.1	102815001	102835001	3.36	0.215486	OL	KLHL8
NC_056068.1	28840001	28860001	2.72832	0.27935	OL	KMT2A
NC_056068.1	28845001	28865001	5.30207	0.474234	OL	KMT2A
NC_056054.1	201260001	201280001	5.96354	0.341287	OL	KNG1
NC_056054.1	201265001	201285001	4.13008	0.245663	OL	KNG1
NC_056054.1	125770001	125790001	2.40849	0.431084	OL	KRTAP6-1
NC_056054.1	255340001	255360001	3.91876	0.249945	OL	KY
NC_056054.1	255345001	255365001	4.28087	0.312899	OL	KY
NC_056054.1	255350001	255370001	4.57306	0.326409	OL	KY
NC_056054.1	255355001	255375001	5.12467	0.266823	OL	KY
NC_056054.1	255360001	255380001	3.46788	0.221372	OL	KY
NC_056054.1	255365001	255385001	3.56665	0.215182	OL	KY
NC_056059.1	38065001	38085001	11.3	0.666422	OL	LCORL
NC_056059.1	38200001	38220001	4.04489	0.243119	OL	LCORL
NC_056059.1	38205001	38225001	3.31902	0.240467	OL	LCORL
NC_056059.1	38210001	38230001	3.07766	0.222712	OL	LCORL
NC_056059.1	38215001	38235001	2.67961	0.226169	OL	LCORL
NC_056068.1	56940001	56960001	4.29846	0.251503	OL	LGR4
NC_056068.1	56945001	56965001	7.73584	0.277397	OL	LGR4
NC_056056.1	107675001	107695001	2.83186	0.285963	OL	LGR5
NC_056065.1	79680001	79700001	2.88211	0.225847	OL	LGR6;PPP1R12B;UBE2T
NC_056060.1	9680001	9700001	8.64485	0.252097	OL	LHFPL2
NC_056060.1	9685001	9705001	27.1326	0.315538	OL	LHFPL2
NC_056060.1	9705001	9725001	9.87741	0.23616	OL	LHFPL2
NC_056060.1	9715001	9735001	4.84682	0.221465	OL	LHFPL2
NC_056067.1	55350001	55370001	2.53743	0.238344	OL	LIN7B;SNRNP70
NC_056068.1	56950001	56970001	12.523	0.274684	OL	LIN7C
NC_056068.1	56955001	56975001	7.36633	0.262821	OL	LIN7C
NC_056065.1	28540001	28560001	2.45084	0.296672	OL	LIN9
NC_056055.1	97530001	97550001	2.52509	0.223175	OL	LINGO2
NC_056055.1	97690001	97710001	3.64116	0.25185	OL	LINGO2
NC_056068.1	52540001	52560001	3.50448	0.245988	OL	LIPT2
NC_056056.1	189925001	189945001	2.46189	0.217467	OL	LMNTD1
NC_056056.1	198880001	198900001	2.44651	0.405603	OL	LMO3
NC_056064.1	41325001	41345001	2.60948	0.374277	OL	LOC100526781
NC_056064.1	41335001	41355001	2.54243	0.395023	OL	LOC100526781
NC_056064.1	41320001	41340001	3.47111	0.341365	OL	LOC100526781;LOC100526782
NC_056064.1	41340001	41360001	2.81151	0.316773	OL	LOC100526781;V15
NC_056064.1	41305001	41325001	3.57041	0.323583	OL	LOC100526782
NC_056064.1	41310001	41330001	4.1233	0.341274	OL	LOC100526782

NC_056064.1	41315001	41335001	3.65487	0.302686	OL	LOC100526782
NC_056077.1	37210001	37230001	2.50204	0.29484	OL	LOC101102366
NC_056077.1	37220001	37240001	2.42057	0.392094	OL	LOC101102366
NC_056077.1	37225001	37245001	2.8331	0.496758	OL	LOC101102366;ZSCAN25
NC_056077.1	37230001	37250001	3.94261	0.570768	OL	LOC101102366;ZSCAN25
NC_056077.1	37235001	37255001	12.1069	0.569868	OL	LOC101102366;ZSCAN25
NC_056055.1	64825001	64845001	3.32289	0.246327	OL	LOC101102454
NC_056061.1	57960001	57980001	4.37526	0.305026	OL	LOC101102492;LOC101118705
NC_056061.1	57955001	57975001	5.33205	0.343585	OL	LOC101102492;TAAR8
NC_056068.1	44470001	44490001	4.20919	0.212585	OL	LOC101104009
NC_056075.1	43590001	43610001	6.43332	0.408841	OL	LOC101104360
NC_056075.1	43595001	43615001	3.84775	0.364705	OL	LOC101104360
NC_056075.1	43600001	43620001	2.35938	0.329413	OL	LOC101104360
NC_056075.1	43580001	43600001	8.9187	0.345327	OL	LOC101104360;NKX1-2
NC_056058.1	8120001	8140001	4.13086	0.26868	OL	LOC101104488
NC_056058.1	8125001	8145001	5.24392	0.314168	OL	LOC101104488
NC_056058.1	39020001	39040001	2.38299	0.254026	OL	LOC101104974
NC_056077.1	4705001	4725001	3.59933	0.266698	OL	LOC101105047
NC_056077.1	4710001	4730001	3.73781	0.248569	OL	LOC101105047
NC_056077.1	4715001	4735001	3.19069	0.239168	OL	LOC101105047
NC_056076.1	37915001	37935001	8.10738	0.218639	OL	LOC101105123
NC_056076.1	37920001	37940001	12.1905	0.270162	OL	LOC101105123
NC_056077.1	1170001	1190001	10.401	0.349545	OL	LOC101105127;MSLN
NC_056077.1	1175001	1195001	13.6728	0.392484	OL	LOC101105127;MSLN
NC_056080.1	19350001	19370001	12.6397	0.213617	OL	LOC101105138
NC_056068.1	64205001	64225001	3.56278	0.261316	OL	LOC101105523
NC_056068.1	64210001	64230001	5.18681	0.362342	OL	LOC101105523
NC_056068.1	64215001	64235001	8.91207	0.406845	OL	LOC101105523
NC_056068.1	64220001	64240001	12.8742	0.406492	OL	LOC101105523;PDHX
NC_056068.1	64225001	64245001	13.2597	0.37297	OL	LOC101105523;PDHX
NC_056068.1	64230001	64250001	3.81362	0.307569	OL	LOC101105523;PDHX
NC_056074.1	35405001	35425001	13.0471	0.306108	OL	LOC101105540
NC_056063.1	20760001	20780001	5.71255	0.262204	OL	LOC101106088
NC_056063.1	20765001	20785001	3.49306	0.221892	OL	LOC101106088
NC_056054.1	21660001	21680001	3.90336	0.220733	OL	LOC101106121
NC_056054.1	21665001	21685001	5.04147	0.236396	OL	LOC101106121
NC_056080.1	64030001	64050001	9.83491	0.291037	OL	LOC101106743
NC_056080.1	64035001	64055001	7.98672	0.264885	OL	LOC101106743
NC_056072.1	55740001	55760001	2.35107	0.347816	OL	LOC101106751
NC_056072.1	55745001	55765001	2.62101	0.395465	OL	LOC101106751
NC_056072.1	55750001	55770001	2.42547	0.388323	OL	LOC101106751
NC_056072.1	55755001	55775001	2.56906	0.355859	OL	LOC101106751
NC_056056.1	200635001	200655001	2.8951	0.333905	OL	LOC101106925
NC_056068.1	53610001	53630001	12.2995	0.240869	OL	LOC101107135;LOC101107387
NC_056068.1	53615001	53635001	9.24537	0.292817	OL	LOC101107135;LOC101107387
NC_056068.1	53620001	53640001	6.9337	0.403573	OL	LOC101107135;LOC101107387
NC_056055.1	246405001	246425001	12.6444	0.255804	OL	LOC101107420
NC_056055.1	246410001	246430001	11.5426	0.297721	OL	LOC101107420
NC_056055.1	246415001	246435001	9.86538	0.303976	OL	LOC101107675
NC_056055.1	246420001	246440001	6.64803	0.295572	OL	LOC101107675
NC_056055.1	52575001	52595001	2.70685	0.235447	OL	LOC101108371;LOC114112800
NC_056058.1	38655001	38675001	6.25158	0.232107	OL	LOC101108746
NC_056058.1	38660001	38680001	7.58236	0.260662	OL	LOC101108746
NC_056058.1	38665001	38685001	7.60387	0.247463	OL	LOC101108746
NC_056058.1	38670001	38690001	4.13895	0.254437	OL	LOC101108746;LOC101116054
NC_056068.1	48390001	48410001	2.92356	0.249695	OL	LOC101108775
NC_056077.1	7640001	7660001	10.4411	0.225104	OL	LOC101109062
NC_056068.1	48400001	48420001	10.1364	0.358669	OL	LOC101109299
NC_056068.1	48405001	48425001	12.5096	0.364925	OL	LOC101109299
NC_056064.1	23970001	23990001	3.00209	0.254831	OL	LOC101109373
NC_056068.1	48420001	48440001	6.59952	0.288525	OL	LOC101109827;LOC114118490
NC_056057.1	106490001	106510001	4.72872	0.233217	OL	LOC101109961
NC_056057.1	106475001	106495001	5.33401	0.228482	OL	LOC101109961;PRSS37
NC_056057.1	106480001	106500001	6.14286	0.273792	OL	LOC101109961;PRSS37
NC_056057.1	106485001	106505001	5.19751	0.26002	OL	LOC101109961;PRSS37
NC_056074.1	15575001	15595001	10.1127	0.228014	OL	LOC101110189
NC_056074.1	15565001	15585001	2.86227	0.213654	OL	LOC101110189;NDUFC2
NC_056074.1	15570001	15590001	5.08333	0.251145	OL	LOC101110189;NDUFC2
NC_056077.1	28915001	28935001	3.11733	0.241233	OL	LOC101111335
NC_056077.1	28920001	28940001	3.20244	0.319779	OL	LOC101111335
NC_056054.1	107700001	107720001	4.81954	0.296393	OL	LOC101111337;LOC101111854
NC_056068.1	48500001	48520001	2.61161	0.47756	OL	LOC101111391
NC_056068.1	48505001	48525001	2.34406	0.468269	OL	LOC101111391
NC_056059.1	73080001	73100001	4.4375	0.217677	OL	LOC101111633;LOC114115373;POLR2B

NC_056059.1	73085001	73105001	5.33008	0.221864	OL	LOC101111633;LOC114115373;POLR2B
NC_056059.1	73095001	73115001	2.85777	0.220947	OL	LOC101111633;LOC114115373;POLR2B
NC_056068.1	48510001	48530001	2.42302	0.409284	OL	LOC101111904
NC_056068.1	48515001	48535001	2.57218	0.318352	OL	LOC101111904
NC_056068.1	48525001	48545001	4.4663	0.238504	OL	LOC101111904;LOC101112160
NC_056074.1	41890001	41910001	3.87375	0.251211	OL	LOC101111922
NC_056074.1	41880001	41900001	4.21987	0.277697	OL	LOC101111922;NUDT8;TBX10
NC_056074.1	41885001	41905001	5.1171	0.284759	OL	LOC101111922;TBX10
NC_056079.1	14815001	14835001	8.57793	0.21567	OL	LOC101112284
NC_056079.1	14820001	14840001	10.6891	0.221201	OL	LOC101112284
NC_056068.1	81345001	81365001	4.47984	0.507744	OL	LOC101112419
NC_056068.1	81350001	81370001	8.18489	0.585398	OL	LOC101112419
NC_056068.1	81360001	81380001	3.79688	0.46108	OL	LOC101112419
NC_056068.1	81365001	81385001	3.0979	0.435365	OL	LOC101112419
NC_056077.1	33195001	33215001	2.49114	0.232094	OL	LOC101112784
NC_056077.1	33200001	33220001	2.53583	0.230922	OL	LOC101112784
NC_056067.1	14285001	14305001	3.9331	0.449309	OL	LOC101113004;LOC101113264
NC_056077.1	19640001	19660001	2.50952	0.434383	OL	LOC101113819
NC_056078.1	40935001	40955001	2.42524	0.313879	OL	LOC101114082
NC_056078.1	40940001	40960001	2.90729	0.355814	OL	LOC101114082
NC_056078.1	40945001	40965001	3.24133	0.351731	OL	LOC101114082
NC_056078.1	40950001	40970001	5.09504	0.291161	OL	LOC101114082
NC_056078.1	40955001	40975001	7.23051	0.216503	OL	LOC101114082
NC_056057.1	106925001	106945001	11.796	0.300035	OL	LOC101114438;LOC121816042
NC_056057.1	106930001	106950001	21.1494	0.277819	OL	LOC101114438;LOC121816042
NC_056057.1	106935001	106955001	13.1657	0.239194	OL	LOC101114438;LOC121816042
NC_056065.1	4870001	4890001	3.72017	0.286521	OL	LOC101114456
NC_056061.1	50075001	50095001	2.49866	0.349782	OL	LOC101114528;ZNF292
NC_056067.1	62115001	62135001	8.06626	0.593494	OL	LOC101115398
NC_056058.1	9035001	9055001	34.0925	0.23224	OL	LOC101115538
NC_056058.1	9040001	9060001	32.5257	0.220302	OL	LOC101115538
NC_056058.1	9045001	9065001	29.2265	0.223124	OL	LOC101115538
NC_056058.1	38885001	38905001	2.49179	0.323054	OL	LOC101115539
NC_056060.1	86870001	86890001	8.74059	0.355208	OL	LOC101115626;SPTLC2
NC_056060.1	86875001	86895001	4.73697	0.257447	OL	LOC101115626;SPTLC2
NC_056080.1	34140001	34160001	16.6201	0.515843	OL	LOC101115943
NC_056080.1	34145001	34165001	12.0725	0.501211	OL	LOC101115943
NC_056080.1	34150001	34170001	10.6154	0.528362	OL	LOC101115943
NC_056080.1	34155001	34175001	10.5714	0.520604	OL	LOC101115943
NC_056058.1	9070001	9090001	21.2248	0.235912	OL	LOC101116053
NC_056058.1	9075001	9095001	23.2389	0.239513	OL	LOC101116053
NC_056058.1	9080001	9100001	20.8975	0.221003	OL	LOC101116053
NC_056063.1	19380001	19400001	3.81949	0.22143	OL	LOC101116064
NC_056075.1	44800001	44820001	2.59682	0.213709	OL	LOC101116189;UROS
NC_056075.1	44805001	44825001	2.97744	0.215371	OL	LOC101116189;UROS
NC_056065.1	55560001	55580001	2.64796	0.264	OL	LOC101116245
NC_056065.1	55550001	55570001	2.7341	0.216949	OL	LOC101116245;RABGAP1L
NC_056065.1	55555001	55575001	2.56667	0.234747	OL	LOC101116245;RABGAP1L
NC_056059.1	8845001	8865001	3.04279	0.239946	OL	LOC101116481
NC_056059.1	8850001	8870001	4.37458	0.272889	OL	LOC101116481
NC_056059.1	8855001	8875001	4.78113	0.243953	OL	LOC101116481
NC_056058.1	39050001	39070001	9.04325	0.312935	OL	LOC101117077
NC_056058.1	39055001	39075001	6.7248	0.291487	OL	LOC101117077
NC_056058.1	39060001	39080001	3.63465	0.264261	OL	LOC101117077
NC_056058.1	39065001	39085001	2.87301	0.332241	OL	LOC101117077;TRIM58
NC_056065.1	56820001	56840001	2.47984	0.219149	OL	LOC101117093
NC_056074.1	16620001	16640001	2.40652	0.230749	OL	LOC101117547
NC_056066.1	78185001	78205001	2.3494	0.226676	OL	LOC101117690
NC_056074.1	16750001	16770001	2.5066	0.215049	OL	LOC101117804
NC_056074.1	16840001	16860001	14.1067	0.255102	OL	LOC101117804
NC_056074.1	16845001	16865001	22.1199	0.318036	OL	LOC101117804
NC_056055.1	8320001	8340001	3.47832	0.216057	OL	LOC101118085
NC_056073.1	28645001	28665001	2.46189	0.259484	OL	LOC101118231
NC_056074.1	38025001	38045001	2.43808	0.291277	OL	LOC101118318
NC_056074.1	38030001	38050001	3.82781	0.377618	OL	LOC101118318
NC_056074.1	38035001	38055001	4.04616	0.358658	OL	LOC101118318
NC_056080.1	2755001	2775001	8.76775	0.246816	OL	LOC101118336
NC_056073.1	28785001	28805001	2.39932	0.214934	OL	LOC101119769
NC_056054.1	109675001	109695001	2.60038	0.253939	OL	LOC101119785
NC_056075.1	20675001	20695001	5.40001	0.305255	OL	LOC101120033
NC_056075.1	20680001	20700001	15.2102	0.377429	OL	LOC101120033
NC_056075.1	20685001	20705001	13.8865	0.462704	OL	LOC101120033
NC_056075.1	20700001	20720001	7.66667	0.336842	OL	LOC101120033
NC_056075.1	20705001	20725001	5.08787	0.238873	OL	LOC101120033

NC_056064.1	24045001	24065001	9.55343	0.303388	OL	LOC101120675
NC_056064.1	24040001	24060001	4.24198	0.271264	OL	LOC101120675;LOC114116981
NC_056068.1	53695001	53715001	11.6667	0.428262	OL	LOC101120816
NC_056068.1	53700001	53720001	9.14583	0.409604	OL	LOC101120816
NC_056068.1	53705001	53725001	7.06583	0.383843	OL	LOC101120816
NC_056068.1	53710001	53730001	5.72222	0.450645	OL	LOC101120816
NC_056068.1	53715001	53735001	7.32105	0.470932	OL	LOC101120816
NC_056068.1	53720001	53740001	7.36206	0.466647	OL	LOC101120816
NC_056068.1	53725001	53745001	7.28693	0.441189	OL	LOC101120816;LOC101122934
NC_056068.1	53730001	53750001	8.02174	0.416498	OL	LOC101120816;LOC101122934
NC_056068.1	53735001	53755001	7.10191	0.365441	OL	LOC101120816;LOC101122934
NC_056068.1	53740001	53760001	8.0435	0.303604	OL	LOC101120816;LOC101122934
NC_056064.1	24050001	24070001	5.38735	0.274897	OL	LOC101120929
NC_056064.1	24055001	24075001	4.02611	0.226201	OL	LOC101120929;SPATA22
NC_056060.1	25330001	25350001	20.4159	0.239236	OL	LOC101121100;LOC101121354
NC_056074.1	41870001	41890001	3.2595	0.243684	OL	LOC101121557;NDUFV1;NUDT8;TBX10
NC_056074.1	41875001	41895001	3.46793	0.286401	OL	LOC101121557;NUDT8;TBX10
NC_056058.1	49535001	49555001	4.74816	0.250334	OL	LOC101122108;LOC101122274;LOC105611202
NC_056058.1	49530001	49550001	3.96875	0.225876	OL	LOC101122108;LOC105611202
NC_056058.1	49635001	49655001	2.49235	0.276345	OL	LOC101122274;LOC105611202
NC_056058.1	49540001	49560001	3.72794	0.335627	OL	LOC101122274;LOC105611202;LOC105615366
NC_056058.1	49545001	49565001	4.01304	0.330351	OL	LOC101122274;LOC105611202;LOC105615366
NC_056058.1	49550001	49570001	4.14131	0.309838	OL	LOC101122274;LOC105611202;LOC105615366
NC_056058.1	49555001	49575001	4.21837	0.297675	OL	LOC101122274;LOC105611202;LOC105615366
NC_056058.1	49560001	49580001	3.10166	0.232477	OL	LOC101122274;LOC105611202;LOC105615366
NC_056058.1	49630001	49650001	3.71481	0.292541	OL	LOC101122274;LOC105611202;LOC106991193
NC_056072.1	52215001	52235001	8.01795	0.224567	OL	LOC101122312
NC_056072.1	52220001	52240001	6.9367	0.286653	OL	LOC101122312
NC_056072.1	52225001	52245001	4.13098	0.330471	OL	LOC101122312
NC_056056.1	206095001	206115001	2.57479	0.382256	OL	LOC101122428
NC_056058.1	39845001	39865001	2.39004	0.352156	OL	LOC101122438;LOC101122694
NC_056058.1	39850001	39870001	2.59893	0.236821	OL	LOC101122694
NC_056068.1	53745001	53765001	7.29333	0.291188	OL	LOC101122934
NC_056068.1	53750001	53770001	7.53434	0.264103	OL	LOC101122934
NC_056068.1	53755001	53775001	5.65853	0.239744	OL	LOC101122934
NC_056056.1	132990001	133010001	6.07767	0.458533	OL	LOC101123619;NPF;TARBP2
NC_056078.1	40965001	40985001	5.25175	0.215111	OL	LOC105605095
NC_056078.1	40970001	40990001	2.67139	0.232095	OL	LOC105605095
NC_056071.1	65450001	65470001	6	0.276029	OL	LOC105605761;LOC114109056
NC_056071.1	65455001	65475001	4.2216	0.243538	OL	LOC105605761;LOC114109056
NC_056071.1	65420001	65440001	4.32501	0.257213	OL	LOC105605780
NC_056071.1	65425001	65445001	3.76445	0.253547	OL	LOC105605780
NC_056071.1	65430001	65450001	4.29084	0.263932	OL	LOC105605780
NC_056073.1	25575001	25595001	2.73191	0.284442	OL	LOC105605908
NC_056073.1	25985001	26005001	13.1599	0.242696	OL	LOC105605990
NC_056057.1	79960001	79980001	2.98003	0.231636	OL	LOC105606666
NC_056067.1	44755001	44775001	3.03013	0.288063	OL	LOC105607568;LOC114117976
NC_056068.1	37320001	37340001	3.02223	0.390107	OL	LOC105610137
NC_056057.1	6975001	6995001	22.103	0.233702	OL	LOC105614936
NC_056067.1	10440001	10460001	3.45342	0.309868	OL	LOC106991582;USP10
NC_056071.1	65440001	65460001	6.74158	0.291017	OL	LOC114109056
NC_056071.1	65445001	65465001	6.88739	0.290549	OL	LOC114109056
NC_056077.1	14170001	14190001	2.7653	0.221561	OL	LOC114110664
NC_056080.1	79045001	79065001	3.79162	0.309123	OL	LOC114111496
NC_056080.1	79050001	79070001	2.88968	0.269067	OL	LOC114111496
NC_056080.1	79055001	79075001	2.62531	0.241154	OL	LOC114111496
NC_056065.1	30225001	30245001	2.70679	0.275385	OL	LOC114112547;SMYD3
NC_056065.1	30230001	30250001	3.09805	0.259222	OL	LOC114112547;SMYD3
NC_056055.1	111030001	111050001	6.89048	0.369803	OL	LOC114113035
NC_056055.1	111035001	111055001	3.81159	0.333399	OL	LOC114113035
NC_056055.1	111040001	111060001	3.11368	0.287603	OL	LOC114113035
NC_056055.1	111045001	111065001	2.49691	0.294984	OL	LOC114113035
NC_056055.1	75170001	75190001	3.00872	0.231933	OL	LOC114113077
NC_056055.1	75175001	75195001	3.75512	0.263152	OL	LOC114113077
NC_056055.1	75180001	75200001	5.29959	0.277448	OL	LOC114113077
NC_056055.1	75185001	75205001	6.91537	0.283622	OL	LOC114113077
NC_056055.1	75190001	75210001	5.12172	0.234649	OL	LOC114113077
NC_056054.1	125795001	125815001	2.53997	0.466331	OL	LOC114113316
NC_056054.1	125830001	125850001	2.99011	0.292758	OL	LOC114113348
NC_056054.1	125835001	125855001	4.35568	0.299588	OL	LOC114113348
NC_056054.1	125840001	125860001	5.68832	0.293596	OL	LOC114113348
NC_056054.1	125845001	125865001	4.1214	0.283866	OL	LOC114113348
NC_056056.1	92180001	92200001	17.7586	0.363932	OL	LOC114113944
NC_056056.1	92185001	92205001	5.14624	0.440729	OL	LOC114113944



NC_056056.1	92190001	92210001	2.88491	0.461174	OL	LOC114113944
NC_056056.1	92175001	92195001	15.4484	0.292387	OL	LOC114113944;SRD5A2
NC_056058.1	38265001	38285001	8.00328	0.401043	OL	LOC114114935
NC_056058.1	38270001	38290001	4.04895	0.371113	OL	LOC114114935
NC_056064.1	23965001	23985001	2.52164	0.316589	OL	LOC114116984
NC_056065.1	42620001	42640001	2.94246	0.240735	OL	LOC114117226
NC_056065.1	42625001	42645001	5.23426	0.266763	OL	LOC114117226;UBE4B
NC_056065.1	55575001	55595001	3.65263	0.273862	OL	LOC114117245;MRPS14
NC_056065.1	55580001	55600001	3.03022	0.241526	OL	LOC114117245;MRPS14
NC_056065.1	61780001	61800001	18.4131	0.331903	OL	LOC114117249
NC_056065.1	61785001	61805001	23.5584	0.337607	OL	LOC114117249
NC_056065.1	61790001	61810001	17.4972	0.276935	OL	LOC114117249
NC_056065.1	61795001	61815001	20.5769	0.315501	OL	LOC114117249
NC_056067.1	44715001	44735001	2.59723	0.287227	OL	LOC114117974
NC_056068.1	35000001	35020001	2.40567	0.232749	OL	LOC114118401
NW_02459982	1415001	1435001	15.3095	0.29729	OL	LOC121816021
NW_02459982	1420001	1440001	11.5113	0.260357	OL	LOC121816021
NW_02459982	1425001	1445001	7.6488	0.238861	OL	LOC121816021
NW_02459982	1430001	1450001	6.08465	0.245214	OL	LOC121816021
NW_02459982	1435001	1455001	7.54933	0.236239	OL	LOC121816021
NW_02459982	1440001	1460001	9.60157	0.283382	OL	LOC121816021
NW_02459972	20001	40001	4.30081	0.259588	OL	LOC121816038
NW_02459972	25001	45001	5.23157	0.241232	OL	LOC121816038
NC_056057.1	106920001	106940001	7.83939	0.32244	OL	LOC121816042
NC_056069.1	18210001	18230001	2.66934	0.216073	OL	LOC121816801
NC_056069.1	18215001	18235001	2.59705	0.231591	OL	LOC121816801
NC_056076.1	24860001	24880001	2.49709	0.252576	OL	LOC121817702
NC_056076.1	24865001	24885001	4.9392	0.246021	OL	LOC121817702
NC_056076.1	24870001	24890001	10.9673	0.238412	OL	LOC121817702
NC_056076.1	24880001	24900001	3.52059	0.218494	OL	LOC121817702
NC_056076.1	24885001	24905001	3.22233	0.246854	OL	LOC121817702
NC_056080.1	81830001	81850001	4.31189	0.4556	OL	LOC121818145
NC_056080.1	81835001	81855001	3.14953	0.409147	OL	LOC121818145
NC_056080.1	131460001	131480001	5.55678	0.218378	OL	LOC121818354
NC_056054.1	116405001	116425001	4.33584	0.380345	OL	LOC121818668
NC_056054.1	116410001	116430001	7.16455	0.453955	OL	LOC121818668
NC_056054.1	116415001	116435001	10.3753	0.48565	OL	LOC121818668
NC_056054.1	116420001	116440001	8.27579	0.382045	OL	LOC121818668
NC_056054.1	116425001	116445001	3.38236	0.259636	OL	LOC121818668
NC_056065.1	12530001	12550001	2.78084	0.365983	OL	LOC121820762
NC_056065.1	12535001	12555001	4.05918	0.455869	OL	LOC121820762
NC_056063.1	16870001	16890001	2.77185	0.22037	OL	LRCH1
NC_056063.1	16875001	16895001	2.81184	0.224781	OL	LRCH1
NC_056063.1	16880001	16900001	2.84821	0.22549	OL	LRCH1
NC_056063.1	16885001	16905001	3.19458	0.240297	OL	LRCH1
NC_056063.1	16890001	16910001	2.5679	0.219849	OL	LRCH1
NC_056063.1	16895001	16915001	2.44724	0.251944	OL	LRCH1
NC_056063.1	16900001	16920001	2.63084	0.236033	OL	LRCH1
NC_056056.1	162410001	162430001	6.31677	0.357718	OL	LRP1
NC_056056.1	162395001	162415001	2.37128	0.404068	OL	LRP1;NXPH4
NC_056056.1	162400001	162420001	3.86214	0.44396	OL	LRP1;NXPH4
NC_056055.1	168320001	168340001	2.43715	0.40589	OL	LRP1B
NC_056055.1	168325001	168345001	2.85018	0.404429	OL	LRP1B
NC_056055.1	168375001	168395001	2.4901	0.239134	OL	LRP1B
NC_056056.1	80375001	80395001	2.68349	0.24446	OL	LRPPRC
NC_056056.1	80380001	80400001	3.74673	0.216397	OL	LRPPRC
NC_056060.1	17760001	17780001	2.54476	0.325346	OL	LRRC49
NC_056060.1	17840001	17860001	3.68786	0.225893	OL	LRRC49
NC_056060.1	17845001	17865001	3.47265	0.237743	OL	LRRC49
NC_056060.1	70255001	70275001	2.49443	0.233049	OL	LRRC9
NC_056060.1	70260001	70280001	2.3995	0.251159	OL	LRRC9
NC_056074.1	18125001	18145001	20.556	0.227704	OL	LUZP2
NC_056074.1	18130001	18150001	11.3194	0.236515	OL	LUZP2
NC_056060.1	4830001	4850001	2.40858	0.256095	OL	LVRN
NC_056066.1	7955001	7975001	2.56307	0.222014	OL	MACROD2
NC_056066.1	7960001	7980001	2.54489	0.260336	OL	MACROD2
NC_056066.1	7965001	7985001	2.60771	0.284021	OL	MACROD2
NC_056066.1	8365001	8385001	3.00505	0.249424	OL	MACROD2
NC_056066.1	8370001	8390001	2.73985	0.263643	OL	MACROD2
NC_056066.1	8375001	8395001	3.11746	0.233075	OL	MACROD2
NC_056066.1	9575001	9595001	3.97611	0.331459	OL	MACROD2
NC_056066.1	9650001	9670001	3.54234	0.353541	OL	MACROD2
NC_056066.1	9655001	9675001	6.10643	0.430387	OL	MACROD2
NC_056066.1	9660001	9680001	4.21176	0.475645	OL	MACROD2

NC_056077.1	41460001	41480001	2.62784	0.213831	OL	MAD1L1
NC_056077.1	41520001	41540001	23.2938	0.317236	OL	MAD1L1
NC_056077.1	41525001	41545001	21.3418	0.312752	OL	MAD1L1
NC_056077.1	41530001	41550001	18.7441	0.309089	OL	MAD1L1
NC_056077.1	41535001	41555001	14.2423	0.30441	OL	MAD1L1
NC_056077.1	41540001	41560001	6.62554	0.271274	OL	MAD1L1
NC_056077.1	41545001	41565001	5.97872	0.271042	OL	MAD1L1
NC_056077.1	41550001	41570001	4.58125	0.263631	OL	MAD1L1
NC_056077.1	41555001	41575001	5.97409	0.26058	OL	MAD1L1
NC_056077.1	41560001	41580001	7.73859	0.26664	OL	MAD1L1
NC_056077.1	41565001	41585001	4.64198	0.229447	OL	MAD1L1
NC_056077.1	41570001	41590001	5.44068	0.235891	OL	MAD1L1
NC_056077.1	41575001	41595001	4.66254	0.239516	OL	MAD1L1
NC_056077.1	41580001	41600001	4.86455	0.219685	OL	MAD1L1
NC_056077.1	41785001	41805001	6.57871	0.367647	OL	MAFK
NC_056077.1	41765001	41785001	11.9062	0.319124	OL	MAFK;PSMG3;TMEM184A
NC_056067.1	45285001	45305001	3.32159	0.29753	OL	MAG
NC_056067.1	45290001	45310001	2.89762	0.225505	OL	MAG
NC_056080.1	53685001	53705001	2.75107	0.241841	OL	MAGED1
NC_056080.1	68900001	68920001	5.48609	0.317284	OL	MAGT1
NC_056080.1	68905001	68925001	5.96581	0.27629	OL	MAGT1
NC_056076.1	58095001	58115001	2.37543	0.237569	OL	MALT1
NC_056055.1	241175001	241195001	4.06026	0.247611	OL	MAN1C1
NC_056055.1	241180001	241200001	8.59412	0.274158	OL	MAN1C1
NC_056056.1	225555001	225575001	2.53505	0.277469	OL	MAPK11;PLXNB2
NC_056074.1	38665001	38685001	3.7349	0.289362	OL	MARK2
NC_056074.1	38670001	38690001	5.91147	0.302306	OL	MARK2
NC_056074.1	38690001	38710001	9.96663	0.337926	OL	MARK2
NC_056074.1	38695001	38715001	8.28356	0.346506	OL	MARK2;RCOR2
NC_056074.1	38700001	38720001	2.72055	0.268984	OL	MARK2;RCOR2
NC_056078.1	34705001	34725001	6.87729	0.264069	OL	MAT1A
NC_056078.1	34680001	34700001	22.4587	0.359622	OL	MBLA;SFTPA1
NC_056078.1	34685001	34705001	20.4537	0.330799	OL	MBLA;SFTPA1
NC_056078.1	34690001	34710001	27.4799	0.333847	OL	MBLA;SFTPA1
NC_056078.1	34670001	34690001	8.21859	0.324392	OL	MBLA;SFTPD
NC_056078.1	34675001	34695001	21.5449	0.3529	OL	MBLA;SFTPD
NC_056067.1	14240001	14260001	2.44009	0.24875	OL	MC1R;TCF25
NC_056079.1	5555001	5575001	2.74721	0.22131	OL	MCPH1
NC_056079.1	5560001	5580001	4.05768	0.237719	OL	MCPH1
NC_056079.1	5565001	5585001	4.33957	0.221179	OL	MCPH1
NC_056079.1	5570001	5590001	5.42538	0.229172	OL	MCPH1
NC_056079.1	5575001	5595001	4.95877	0.228968	OL	MCPH1
NC_056079.1	5580001	5600001	2.85194	0.241114	OL	MCPH1
NC_056057.1	55040001	55060001	2.47029	0.327567	OL	MDFIC
NC_056057.1	55055001	55075001	2.56786	0.274987	OL	MDFIC
NC_056054.1	237705001	237725001	4.02784	0.216935	OL	MED12L
NC_056080.1	39960001	39980001	2.46268	0.244582	OL	MED14
NC_056066.1	28940001	28960001	20.8322	0.229319	OL	MEIG1
NC_056060.1	30900001	30920001	3.46797	0.226059	OL	MEIS2
NC_056060.1	30905001	30925001	3.58243	0.260366	OL	MEIS2
NC_056060.1	30910001	30930001	3.4881	0.280262	OL	MEIS2
NC_056059.1	37500001	37520001	15.1534	0.320177	OL	MEPE
NC_056059.1	37505001	37525001	16.7535	0.246981	OL	MEPE
NC_056059.1	37510001	37530001	19.8994	0.220797	OL	MEPE
NC_056057.1	53095001	53115001	2.83169	0.230752	OL	MET
NC_056057.1	53100001	53120001	2.91548	0.272228	OL	MET
NC_056057.1	53105001	53125001	2.89524	0.278936	OL	MET
NC_056057.1	53110001	53130001	3.05461	0.254919	OL	MET
NC_056057.1	53115001	53135001	3.14134	0.261257	OL	MET
NC_056057.1	53120001	53140001	3.75982	0.288439	OL	MET
NC_056057.1	53125001	53145001	5.5	0.273124	OL	MET
NC_056057.1	53150001	53170001	4.20329	0.233646	OL	MET
NC_056057.1	53155001	53175001	3.75746	0.278711	OL	MET
NC_056057.1	53160001	53180001	3.4078	0.31018	OL	MET
NC_056057.1	53165001	53185001	2.35699	0.245459	OL	MET
NC_056076.1	37305001	37325001	3.66549	0.3971	OL	METTL4
NC_056076.1	37310001	37330001	7.25194	0.46358	OL	METTL4
NC_056076.1	37315001	37335001	11.136	0.480775	OL	METTL4
NC_056076.1	37320001	37340001	12.5475	0.455692	OL	METTL4
NC_056076.1	37325001	37345001	12.0105	0.409547	OL	METTL4
NC_056076.1	37330001	37350001	7.04184	0.311331	OL	METTL4
NC_056056.1	122360001	122380001	2.39462	0.216755	OL	MGAT4C
NC_056056.1	123010001	123030001	4.09831	0.389643	OL	MGAT4C
NC_056068.1	40160001	40180001	2.60099	0.315133	OL	MICAL2

NC_056068.1	40165001	40185001	7.07575	0.335135	OL	MICAL2
NC_056056.1	225375001	225395001	5.02996	0.664563	OL	MLC1
NC_056056.1	225380001	225400001	5.00775	0.53384	OL	MLC1;MOV10L1
NC_056056.1	225385001	225405001	6.07274	0.412769	OL	MLC1;MOV10L1
NC_056056.1	225360001	225380001	12.2719	0.777415	OL	MLC1;TTLL8
NC_056056.1	225365001	225385001	8.56337	0.778178	OL	MLC1;TTLL8
NC_056056.1	225370001	225390001	5.33296	0.740814	OL	MLC1;TTLL8
NC_056060.1	51980001	52000001	2.55624	0.314564	OL	MNS1
NC_056074.1	46405001	46425001	3.54154	0.260105	OL	MOB2
NC_056074.1	46410001	46430001	3.04688	0.245747	OL	MOB2
NC_056074.1	46415001	46435001	3.0625	0.244149	OL	MOB2
NC_056074.1	46425001	46445001	3.8628	0.253228	OL	MOB2
NC_056056.1	225410001	225430001	6.52596	0.489381	OL	MOV10L1
NC_056056.1	225415001	225435001	6.4156	0.451445	OL	MOV10L1
NC_056056.1	225420001	225440001	6.88028	0.406363	OL	MOV10L1
NC_056077.1	690001	710001	7.54974	0.212872	OL	MPG;NPRL3
NC_056077.1	695001	715001	12.6894	0.275667	OL	MPG;NPRL3
NC_056056.1	62710001	62730001	2.85191	0.269305	OL	MRPL19
NC_056056.1	62715001	62735001	2.34044	0.284807	OL	MRPL19
NC_056065.1	55585001	55605001	3.85382	0.289107	OL	MRPS14
NC_056065.1	55590001	55610001	4.24324	0.274972	OL	MRPS14
NC_056065.1	55595001	55615001	3.03296	0.284017	OL	MRPS14
NC_056065.1	55600001	55620001	4.79509	0.301789	OL	MRPS14
NC_056063.1	22115001	22135001	12.3234	0.227462	OL	MRPS31
NC_056063.1	22120001	22140001	12	0.226684	OL	MRPS31
NC_056063.1	22125001	22145001	12.0407	0.268907	OL	MRPS31
NC_056063.1	22130001	22150001	4.51462	0.219047	OL	MRPS31
NC_056068.1	81895001	81915001	3.7602	0.219108	OL	MS4A13
NC_056074.1	34465001	34485001	2.58994	0.278682	OL	MS4A15;MS4A18
NC_056074.1	34470001	34490001	3.16982	0.244655	OL	MS4A15;MS4A18
NC_056054.1	52015001	52035001	5.9096	0.232309	OL	MSH4;RABGGTB
NC_056054.1	52020001	52040001	4.36595	0.216512	OL	MSH4;RABGGTB
NC_056060.1	74615001	74635001	4.70088	0.263355	OL	MTHFD1
NC_056060.1	74620001	74640001	3.02811	0.241634	OL	MTHFD1
NC_056065.1	41755001	41775001	2.33333	0.285244	OL	MTOR
NC_056063.1	31385001	31405001	3.313	0.219331	OL	MTUS2
NC_056063.1	31390001	31410001	2.71176	0.229487	OL	MTUS2
NC_056062.1	25720001	25740001	2.33209	0.222305	OL	MYC
NC_056064.1	27965001	27985001	3.6974	0.234325	OL	MYH10
NC_056064.1	27970001	27990001	3.80952	0.232174	OL	MYH10
NC_056077.1	35610001	35630001	2.62045	0.271003	OL	MYL10
NC_056077.1	35615001	35635001	2.69819	0.272989	OL	MYL10
NC_056077.1	35620001	35640001	2.82609	0.279412	OL	MYL10
NC_056077.1	35625001	35645001	3.2078	0.289474	OL	MYL10
NC_056067.1	14595001	14615001	2.44956	0.241806	OL	MYLK3
NC_056063.1	83325001	83345001	7.3481	0.214475	OL	MYO16
NC_056066.1	25855001	25875001	2.84869	0.306641	OL	MYO3A
NC_056066.1	25860001	25880001	2.53256	0.248064	OL	MYO3A
NC_056076.1	49860001	49880001	3.105	0.314948	OL	MYO5B
NC_056076.1	49865001	49885001	2.47187	0.317267	OL	MYO5B
NC_056076.1	49870001	49890001	3.1961	0.318681	OL	MYO5B
NC_056076.1	49875001	49895001	4.10156	0.320679	OL	MYO5B
NC_056076.1	49880001	49900001	9.44443	0.227213	OL	MYO5B
NC_056076.1	37805001	37825001	2.35757	0.247042	OL	MYOM1
NC_056076.1	37810001	37830001	3.83047	0.272275	OL	MYOM1
NC_056076.1	37815001	37835001	4.66358	0.238587	OL	MYOM1
NC_056056.1	112090001	112110001	3.23753	0.324742	OL	NAP1L1
NC_056056.1	112095001	112115001	7.66253	0.297273	OL	NAP1L1
NC_056056.1	112100001	112120001	10.5276	0.329668	OL	NAP1L1
NC_056056.1	112105001	112125001	16.0155	0.422248	OL	NAP1L1
NC_056056.1	112110001	112130001	14.6826	0.476219	OL	NAP1L1
NC_056056.1	112115001	112135001	13.319	0.504816	OL	NAP1L1
NC_056056.1	23605001	23625001	6.7344	0.329609	OL	NBAS
NC_056056.1	23610001	23630001	5.54687	0.289471	OL	NBAS
NC_056056.1	23615001	23635001	4.57938	0.26458	OL	NBAS
NC_056063.1	26580001	26600001	2.79018	0.256916	OL	NBEA
NC_056063.1	26585001	26605001	3.13808	0.308135	OL	NBEA
NC_056063.1	26590001	26610001	3.71547	0.290523	OL	NBEA
NC_056063.1	26595001	26615001	3.65217	0.289162	OL	NBEA
NC_056063.1	26600001	26620001	2.49606	0.28212	OL	NBEA
NC_056068.1	23215001	23235001	2.95813	0.328122	OL	NCAM1
NC_056068.1	23220001	23240001	4.18031	0.314225	OL	NCAM1
NC_056068.1	23225001	23245001	4.42799	0.271586	OL	NCAM1
NC_056059.1	38035001	38055001	10.5742	0.319894	OL	NCAPG

NC_056055.1	177505001	177525001	2.66133	0.261258	OL	NCKAP5
NC_056055.1	177510001	177530001	3.42064	0.247543	OL	NCKAP5
NC_056055.1	177515001	177535001	3.54937	0.264677	OL	NCKAP5
NC_056055.1	177605001	177625001	2.52702	0.366776	OL	NCKAP5
NC_056056.1	32220001	32240001	3.88541	0.223719	OL	NCOA1
NC_056056.1	32225001	32245001	6.15234	0.262648	OL	NCOA1
NC_056056.1	32230001	32250001	5	0.241249	OL	NCOA1
NC_056070.1	51245001	51265001	2.43478	0.218873	OL	NCOR2
NC_056070.1	51250001	51270001	2.63392	0.232144	OL	NCOR2
NC_056070.1	51255001	51275001	2.44914	0.255966	OL	NCOR2
NC_056070.1	51260001	51280001	2.35959	0.298463	OL	NCOR2
NC_056076.1	37360001	37380001	3.54992	0.246138	OL	NDC80
NC_056076.1	37365001	37385001	3.12801	0.24428	OL	NDC80
NC_056076.1	37370001	37390001	2.79078	0.262001	OL	NDC80
NC_056074.1	41850001	41870001	4.77126	0.215061	OL	NDUFV1
NC_056066.1	21660001	21680001	4.35525	0.221845	OL	NEBL
NC_056066.1	21665001	21685001	4.03294	0.220638	OL	NEBL
NC_056054.1	47815001	47835001	3.43413	0.225525	OL	NEGR1
NC_056054.1	47820001	47840001	6.52104	0.242007	OL	NEGR1
NC_056054.1	47825001	47845001	9.94361	0.261904	OL	NEGR1
NC_056054.1	47830001	47850001	6.71222	0.328694	OL	NEGR1
NC_056054.1	47835001	47855001	2.53429	0.237849	OL	NEGR1
NC_056055.1	111530001	111550001	3.24397	0.267481	OL	NEK1
NC_056055.1	111535001	111555001	3.52772	0.269292	OL	NEK1
NC_056055.1	111540001	111560001	3.25806	0.260053	OL	NEK1
NC_056055.1	111545001	111565001	2.98365	0.221762	OL	NEK1
NC_056055.1	111575001	111595001	2.54745	0.248044	OL	NEK1
NC_056055.1	111580001	111600001	3.64524	0.273358	OL	NEK1
NC_056055.1	111585001	111605001	5.49732	0.283771	OL	NEK1
NC_056055.1	111590001	111610001	4.97008	0.267446	OL	NEK1
NC_056072.1	1710001	1730001	3.23206	0.25432	OL	NEK10
NC_056072.1	1715001	1735001	5.8453	0.2631	OL	NEK10
NC_056072.1	1720001	1740001	8.11	0.271493	OL	NEK10
NC_056072.1	1725001	1745001	3.54456	0.287422	OL	NEK10
NC_056056.1	141815001	141835001	2.35927	0.252811	OL	NELL2
NC_056056.1	141820001	141840001	3.17529	0.341962	OL	NELL2
NC_056056.1	141825001	141845001	2.93104	0.337851	OL	NELL2
NC_056060.1	19715001	19735001	2.68501	0.356691	OL	NEO1
NC_056080.1	15625001	15645001	3.06145	0.216292	OL	NHS
NC_056080.1	15630001	15650001	4.30919	0.223811	OL	NHS
NC_056080.1	15735001	15755001	5.62264	0.422535	OL	NHS
NC_056080.1	15740001	15760001	8.65415	0.477248	OL	NHS
NC_056080.1	15745001	15765001	4.07877	0.475749	OL	NHS
NC_056080.1	15750001	15770001	2.47524	0.431871	OL	NHS
NC_056080.1	15770001	15790001	3.67421	0.300814	OL	NHS
NC_056060.1	41820001	41840001	2.43234	0.244692	OL	NIN
NC_056060.1	41825001	41845001	2.39662	0.218777	OL	NIN
NC_056061.1	13970001	13990001	2.54178	0.222659	OL	NKAIN2
NC_056061.1	13975001	13995001	2.50244	0.215024	OL	NKAIN2
NC_056061.1	14165001	14185001	2.94516	0.218424	OL	NKAIN2
NC_056061.1	14170001	14190001	2.81173	0.232413	OL	NKAIN2
NC_056061.1	14175001	14195001	2.76351	0.230098	OL	NKAIN2
NC_056061.1	14180001	14200001	2.74254	0.215192	OL	NKAIN2
NC_056061.1	14190001	14210001	3.1706	0.223231	OL	NKAIN2
NC_056061.1	14195001	14215001	4.01891	0.217265	OL	NKAIN2
NC_056061.1	14200001	14220001	5.70781	0.215867	OL	NKAIN2
NC_056061.1	14205001	14225001	5.44668	0.219473	OL	NKAIN2
NC_056062.1	40450001	40470001	7.57651	0.275025	OL	NKAIN3
NC_056062.1	40455001	40475001	13.2356	0.346451	OL	NKAIN3
NC_056062.1	40470001	40490001	4.05882	0.33757	OL	NKAIN3
NC_056062.1	40810001	40830001	3.0955	0.297605	OL	NKAIN3
NC_056062.1	40815001	40835001	2.89575	0.26908	OL	NKAIN3
NC_056062.1	40820001	40840001	3.34229	0.288145	OL	NKAIN3
NC_056062.1	40825001	40845001	2.50597	0.248817	OL	NKAIN3
NC_056062.1	40830001	40850001	2.5089	0.256245	OL	NKAIN3
NC_056054.1	213995001	214015001	2.72379	0.230049	OL	NLGN1
NC_056054.1	214005001	214025001	3.65843	0.232814	OL	NLGN1
NC_056080.1	3690001	3710001	6.16645	0.239881	OL	NLGN4X
NC_056080.1	3695001	3715001	10.8846	0.293485	OL	NLGN4X
NC_056080.1	3700001	3720001	43.2924	0.314499	OL	NLGN4X
NC_056080.1	3705001	3725001	23.083	0.280934	OL	NLGN4X
NC_056057.1	67365001	67385001	2.75249	0.246166	OL	NOD1
NC_056057.1	67385001	67405001	2.54662	0.231878	OL	NOD1
NC_056057.1	67420001	67440001	2.72789	0.305793	OL	NOD1

NC_056057.1	67425001	67445001	2.69157	0.237907	OL	NOD1
NC_056057.1	67430001	67450001	3.30119	0.247422	OL	NOD1
NC_056076.1	23180001	23200001	19.7148	0.302147	OL	NOL4
NC_056076.1	23185001	23205001	16.52	0.288639	OL	NOL4
NC_056076.1	23190001	23210001	3.83023	0.214348	OL	NOL4
NC_056076.1	23220001	23240001	4.34783	0.228547	OL	NOL4
NC_056076.1	23225001	23245001	10.7483	0.272203	OL	NOL4
NC_056076.1	23230001	23250001	12.5671	0.277116	OL	NOL4
NC_056076.1	23235001	23255001	18.4023	0.260719	OL	NOL4
NC_056076.1	23335001	23355001	2.65091	0.304487	OL	NOL4
NC_056076.1	23490001	23510001	3.02265	0.216942	OL	NOL4
NC_056076.1	23495001	23515001	3.26159	0.224466	OL	NOL4
NC_056071.1	34515001	34535001	3.21524	0.43287	OL	NOVA1
NC_056071.1	34520001	34540001	4.12321	0.466766	OL	NOVA1
NC_056071.1	34525001	34545001	3.32937	0.448275	OL	NOVA1
NC_056071.1	34530001	34550001	2.67864	0.416896	OL	NOVA1
NC_056060.1	86760001	86780001	2.65472	0.338736	OL	NOXRRED1
NC_056060.1	86765001	86785001	4.35162	0.373857	OL	NOXRRED1;VIPAS39
NC_056077.1	700001	720001	39.1263	0.303273	OL	NPRL3
NC_056077.1	715001	735001	28.9263	0.260683	OL	NPRL3
NC_056077.1	720001	740001	20.1783	0.23256	OL	NPRL3
NC_056057.1	73205001	73225001	4.05692	0.323947	OL	NPY
NC_056057.1	73210001	73230001	3.8596	0.322932	OL	NPY
NC_056057.1	50760001	50780001	2.45683	0.292101	OL	NRCAM
NC_056078.1	36145001	36165001	2.42544	0.422761	OL	NRG3
NC_056080.1	131595001	131615001	2.36519	0.224518	OL	NRK
NC_056056.1	73290001	73310001	5.68868	0.323486	OL	NRXN1
NC_056056.1	74060001	74080001	3.39041	0.230773	OL	NRXN1
NC_056056.1	74065001	74085001	3.73856	0.25933	OL	NRXN1
NC_056056.1	74070001	74090001	4.78481	0.27715	OL	NRXN1
NC_056056.1	74075001	74095001	4.83298	0.290669	OL	NRXN1
NC_056056.1	74080001	74100001	5.05252	0.257235	OL	NRXN1
NC_056056.1	74085001	74105001	4.2045	0.272351	OL	NRXN1
NC_056056.1	74090001	74110001	2.59603	0.241054	OL	NRXN1
NC_056074.1	39335001	39355001	4.94325	0.214691	OL	NRXN2
NC_056074.1	39340001	39360001	5.57407	0.217829	OL	NRXN2
NC_056060.1	88285001	88305001	4.31569	0.217226	OL	NRXN3
NC_056060.1	88290001	88310001	3.49105	0.213968	OL	NRXN3
NC_056060.1	88295001	88315001	2.99112	0.218948	OL	NRXN3
NC_056079.1	32510001	32530001	3.8896	0.226911	OL	NSD3;PLPP5
NC_056071.1	25975001	25995001	4.01289	0.429378	OL	NSMCE3
NC_056071.1	25980001	26000001	3.68714	0.424654	OL	NSMCE3
NC_056075.1	23485001	23505001	5.35989	0.252166	OL	NT5C2
NC_056075.1	23490001	23510001	13.7386	0.294284	OL	NT5C2
NC_056075.1	23495001	23515001	6.24542	0.282057	OL	NT5C2
NC_056077.1	14225001	14245001	2.7634	0.239904	OL	NTAN1;PDXDC1
NC_056077.1	14230001	14250001	2.6224	0.219482	OL	NTAN1;PDXDC1
NC_056077.1	14240001	14260001	2.43495	0.258427	OL	NTAN1;PDXDC1
NC_056077.1	14215001	14235001	3.33689	0.235009	OL	NTAN1;RRN3
NC_056077.1	14220001	14240001	3.21951	0.233249	OL	NTAN1;RRN3
NC_056065.1	37060001	37080001	3.13497	0.226425	OL	NTMT2
NC_056065.1	37065001	37085001	3.64612	0.234402	OL	NTMT2
NC_056065.1	37070001	37090001	3.35945	0.215164	OL	NTMT2
NC_056056.1	165630001	165650001	7.38494	0.226134	OL	NTN4
NC_056071.1	18635001	18655001	3.66025	0.340305	OL	NTRK3
NC_056071.1	18650001	18670001	7.78848	0.406373	OL	NTRK3
NC_056063.1	54350001	54370001	3.02576	0.308294	OL	OBI1;POU4F1
NC_056074.1	31360001	31380001	3.17758	0.212364	OL	OPCML
NC_056074.1	31595001	31615001	4.25759	0.215961	OL	OPCML
NC_056074.1	31600001	31620001	4.54741	0.215064	OL	OPCML
NC_056076.1	32810001	32830001	2.55088	0.223001	OL	OSBPL1A
NC_056076.1	32815001	32835001	2.71502	0.24303	OL	OSBPL1A
NC_056076.1	32820001	32840001	2.49221	0.215017	OL	OSBPL1A
NC_056057.1	72445001	72465001	2.39607	0.242377	OL	OSBPL3
NC_056057.1	72450001	72470001	2.81614	0.275183	OL	OSBPL3
NC_056056.1	116400001	116420001	2.36323	0.264494	OL	OTOGL
NC_056059.1	10555001	105575001	24.8926	0.272939	OL	OTOP1
NC_056059.1	105580001	105600001	4.66225	0.256499	OL	OTOP1
NC_056071.1	67420001	67440001	4.63721	0.512079	OL	PACS2;TEX22
NC_056055.1	248995001	249015001	7.00809	0.279525	OL	PADI1;PADI3
NC_056055.1	248960001	248980001	21.9252	0.288788	OL	PADI3
NC_056055.1	248965001	248985001	19.4166	0.303645	OL	PADI3
NC_056055.1	248970001	248990001	21.7333	0.304346	OL	PADI3
NC_056055.1	248975001	248995001	23.2475	0.29847	OL	PADI3

NC_056055.1	248980001	249000001	15.8333	0.297999	OL	PADI3
NC_056055.1	248955001	248975001	24.7929	0.257518	OL	PADI4
NW_02459982	1180001	1200001	3.6303	0.22639	OL	PAG3
NW_02459982	1185001	1205001	2.63964	0.212725	OL	PAG3
NC_056055.1	13390001	13410001	5.76341	0.212886	OL	PALM2AKAP2
NC_056055.1	13395001	13415001	3.97122	0.227768	OL	PALM2AKAP2
NC_056060.1	16210001	16230001	4.60409	0.282907	OL	PAQR5
NC_056060.1	16215001	16235001	4.22651	0.291361	OL	PAQR5
NC_056060.1	16220001	16240001	4.64725	0.316877	OL	PAQR5
NC_056054.1	37040001	37060001	13.9099	0.252129	OL	PATJ
NC_056054.1	37045001	37065001	15.2916	0.230053	OL	PATJ
NC_056054.1	37050001	37070001	5.03304	0.219701	OL	PATJ
NC_056056.1	115670001	115690001	3.08262	0.241146	OL	PAWR
NC_056056.1	115675001	115695001	3.20824	0.260948	OL	PAWR
NC_056056.1	115680001	115700001	2.68471	0.24086	OL	PAWR
NC_056058.1	43995001	44015001	6.08763	0.607378	OL	PCBD2
NC_056058.1	44000001	44020001	9.32772	0.640491	OL	PCBD2
NC_056058.1	44005001	44025001	5.41935	0.615153	OL	PCBD2
NC_056058.1	44010001	44030001	2.72699	0.488694	OL	PCBD2
NC_056054.1	266180001	266200001	3.50939	0.222203	OL	PCBP3
NC_056054.1	266185001	266205001	4.01348	0.238529	OL	PCBP3
NC_056054.1	266190001	266210001	4.46651	0.249569	OL	PCBP3
NC_056054.1	266195001	266215001	3.27579	0.225083	OL	PCBP3
NC_056054.1	266210001	266230001	3.13053	0.219357	OL	PCBP3
NC_056054.1	266215001	266235001	4.5285	0.255839	OL	PCBP3
NC_056054.1	266220001	266240001	6.0623	0.274269	OL	PCBP3
NC_056054.1	266225001	266245001	3.40813	0.221697	OL	PCBP3
NC_056054.1	266230001	266250001	3.21723	0.219411	OL	PCBP3
NC_056080.1	22865001	22885001	2.42932	0.225307	OL	PCYT1B
NC_056056.1	100870001	100890001	2.5602	0.232294	OL	PDCL3
NC_056056.1	100875001	100895001	2.51308	0.249915	OL	PDCL3
NC_056057.1	65755001	65775001	2.83163	0.243411	OL	PDE1C
NC_056057.1	65760001	65780001	2.94401	0.258048	OL	PDE1C
NC_056057.1	66120001	66140001	3.37242	0.219558	OL	PDE1C
NC_056057.1	66140001	66160001	3.82997	0.213448	OL	PDE1C
NC_056057.1	66145001	66165001	12.8413	0.35503	OL	PDE1C
NC_056057.1	66150001	66170001	18.4535	0.314286	OL	PDE1C
NC_056057.1	66155001	66175001	31.0081	0.312598	OL	PDE1C
NC_056057.1	66160001	66180001	40.4505	0.259129	OL	PDE1C
NC_056060.1	8535001	8555001	3.08903	0.592792	OL	PDE8B
NC_056060.1	8540001	8560001	2.49337	0.562063	OL	PDE8B
NC_056060.1	8560001	8580001	2.56313	0.566119	OL	PDE8B
NC_056054.1	263675001	263695001	3.13429	0.268291	OL	PDE9A
NC_056054.1	263680001	263700001	4.21136	0.256236	OL	PDE9A
NC_056068.1	4205001	4225001	4.46256	0.257747	OL	PDGFD
NC_056068.1	4210001	4230001	8.91369	0.279202	OL	PDGFD
NC_056068.1	4215001	4235001	7.2887	0.245925	OL	PDGFD
NC_056068.1	4220001	4240001	5.1817	0.259801	OL	PDGFD
NC_056068.1	4225001	4245001	3.81161	0.276492	OL	PDGFD
NC_056068.1	4230001	4250001	3.35301	0.249541	OL	PDGFD
NC_056068.1	4235001	4255001	3.3538	0.293565	OL	PDGFD
NC_056068.1	4240001	4260001	4.10944	0.262737	OL	PDGFD
NC_056056.1	145540001	145560001	2.99514	0.234809	OL	PDZRN4
NC_056056.1	145545001	145565001	9.94929	0.329642	OL	PDZRN4
NC_056056.1	145550001	145570001	8.69881	0.341758	OL	PDZRN4
NC_056056.1	145555001	145575001	3.62247	0.266629	OL	PDZRN4
NC_056060.1	66790001	66810001	10.0776	0.220905	OL	PELI2
NC_056061.1	68385001	68405001	5.24294	0.229233	OL	PHACTR2
NC_056061.1	68435001	68455001	5.66991	0.2373	OL	PHACTR2
NC_056057.1	20075001	20095001	2.96333	0.409231	OL	PHF14
NC_056055.1	2675001	2695001	3.15024	0.275893	OL	PHF19
NC_056055.1	2680001	2700001	3.23691	0.307495	OL	PHF19
NC_056055.1	2685001	2705001	4.24583	0.357192	OL	PHF19
NC_056055.1	27915001	27935001	3.08513	0.274433	OL	PHF2
NC_056055.1	27920001	27940001	4.49522	0.241091	OL	PHF2
NC_056055.1	27935001	27955001	4.88606	0.225284	OL	PHF2
NC_056055.1	27940001	27960001	5.37558	0.262835	OL	PHF2
NC_056055.1	27945001	27965001	8.10932	0.311429	OL	PHF2
NC_056055.1	27950001	27970001	6.67016	0.330916	OL	PHF2
NC_056054.1	97075001	97095001	2.5403	0.413388	OL	PHGDH
NC_056054.1	97085001	97105001	3.11014	0.423806	OL	PHGDH
NC_056054.1	97090001	97110001	2.72784	0.3967	OL	PHGDH
NC_056076.1	60870001	60890001	4.59048	0.232232	OL	PIGN
NC_056076.1	60875001	60895001	26.2689	0.280518	OL	PIGN

NC_056076.1	60880001	60900001	28.4782	0.281962	OL	PIGN
NC_056076.1	60895001	60915001	31.2318	0.316428	OL	PIGN
NC_056076.1	60900001	60920001	32.0472	0.349261	OL	PIGN;RELCH
NC_056076.1	60905001	60925001	30.8296	0.372036	OL	PIGN;RELCH
NC_056076.1	60915001	60935001	22.1961	0.336416	OL	PIGN;RELCH
NC_056076.1	14235001	14255001	15.6723	0.239168	OL	PIK3C3
NC_056076.1	14240001	14260001	16.4285	0.257101	OL	PIK3C3
NC_056057.1	49520001	49540001	2.54103	0.212826	OL	PIK3CG
NC_056067.1	7270001	7290001	8.73528	0.250694	OL	PKD1L2
NC_056067.1	7275001	7295001	14.5874	0.304489	OL	PKD1L2
NC_056067.1	7280001	7300001	18.2	0.307409	OL	PKD1L2
NC_056067.1	7290001	7310001	5.13702	0.238416	OL	PKD1L2
NC_056059.1	37305001	37325001	7.47711	0.215089	OL	PKD2
NC_056069.1	33370001	33390001	2.89605	0.227642	OL	PLCXD3
NC_056069.1	33375001	33395001	2.6824	0.23039	OL	PLCXD3
NC_056069.1	33380001	33400001	2.53854	0.21947	OL	PLCXD3
NC_056054.1	216415001	216435001	2.42508	0.276479	OL	PLD1
NC_056054.1	216440001	216460001	7.61273	0.216065	OL	PLD1
NC_056054.1	216445001	216465001	20.4026	0.251867	OL	PLD1
NC_056054.1	216460001	216480001	20.2035	0.315148	OL	PLD1
NC_056054.1	216465001	216485001	19.161	0.271328	OL	PLD1
NC_056056.1	196165001	196185001	2.4429	0.415589	OL	PLEKHA5
NC_056056.1	196170001	196190001	4.65663	0.39861	OL	PLEKHA5
NC_056056.1	196200001	196220001	2.36297	0.508127	OL	PLEKHA5
NC_056054.1	76670001	76690001	6.98324	0.25377	OL	PLPPR4
NC_056054.1	76675001	76695001	11.417	0.325048	OL	PLPPR4
NC_056054.1	76680001	76700001	16.8435	0.321493	OL	PLPPR4
NC_056054.1	76685001	76705001	18.8333	0.391667	OL	PLPPR4
NC_056054.1	76690001	76710001	17.528	0.31341	OL	PLPPR4
NC_056054.1	76705001	76725001	2.85941	0.270375	OL	PLPPR4
NC_056068.1	21335001	21355001	2.87535	0.241837	OL	POU2AF1
NC_056068.1	21340001	21360001	2.43334	0.234754	OL	POU2AF1
NC_056058.1	58930001	58950001	2.35752	0.253297	OL	PPARGC1B
NC_056056.1	117695001	117715001	3.05095	0.298275	OL	PPFIA2
NC_056056.1	117700001	117720001	6.13093	0.275362	OL	PPFIA2
NC_056056.1	115830001	115850001	5.29501	0.227197	OL	PPP1R12A
NC_056056.1	115835001	115855001	11.956	0.269278	OL	PPP1R12A
NC_056056.1	115840001	115860001	7.01133	0.25334	OL	PPP1R12A
NC_056056.1	115855001	115875001	2.61588	0.215994	OL	PPP1R12A
NC_056056.1	115860001	115880001	3.04068	0.217439	OL	PPP1R12A
NC_056065.1	79590001	79610001	3.20132	0.215402	OL	PPP1R12B
NC_056065.1	79595001	79615001	3.20714	0.254506	OL	PPP1R12B
NC_056065.1	79625001	79645001	2.42175	0.226078	OL	PPP1R12B
NC_056055.1	127660001	127680001	7.18117	0.237761	OL	PPP1R1C
NC_056055.1	127665001	127685001	7.11358	0.251198	OL	PPP1R1C
NC_056055.1	127670001	127690001	8.15242	0.271428	OL	PPP1R1C
NC_056055.1	127675001	127695001	7.25714	0.269894	OL	PPP1R1C
NC_056055.1	127680001	127700001	4.67947	0.249309	OL	PPP1R1C
NC_056055.1	127690001	127710001	3.35376	0.217856	OL	PPP1R1C
NC_056055.1	127695001	127715001	3.29775	0.229137	OL	PPP1R1C
NC_056059.1	5030001	5050001	2.49433	0.28089	OL	PRDM5
NC_056065.1	54285001	54305001	3.89894	0.250803	OL	PRDX6;SLC9C2
NC_056065.1	54290001	54310001	5.27868	0.284464	OL	PRDX6;SLC9C2
NC_056056.1	79980001	80000001	10.594	0.234734	OL	PREPL
NC_056056.1	79985001	80005001	3.26467	0.24859	OL	PREPL;SLC3A1
NC_056072.1	51180001	51200001	3.03954	0.432735	OL	PRKAR2A
NC_056056.1	78605001	78625001	4.97805	0.297474	OL	PRKCE
NC_056060.1	71810001	71830001	3.89321	0.231836	OL	PRKCH
NC_056075.1	7825001	7845001	3.68188	0.264464	OL	PRKG1
NC_056075.1	7830001	7850001	6.66313	0.273822	OL	PRKG1
NC_056075.1	7840001	7860001	32.193	0.26414	OL	PRKG1
NC_056075.1	7845001	7865001	25.2794	0.23422	OL	PRKG1
NC_056075.1	7850001	7870001	15.1665	0.222948	OL	PRKG1
NC_056061.1	85690001	85710001	3.42238	0.233619	OL	PRKN
NC_056061.1	85695001	85715001	3.75583	0.228422	OL	PRKN
NC_056059.1	112025001	112045001	3.11858	0.268602	OL	PROM1
NC_056059.1	112030001	112050001	7.94139	0.423676	OL	PROM1
NC_056059.1	112035001	112055001	15.1888	0.447671	OL	PROM1
NC_056059.1	112040001	112060001	17.3064	0.419847	OL	PROM1
NC_056059.1	112045001	112065001	12.617	0.306574	OL	PROM1
NC_056056.1	136935001	136955001	4.01701	0.255514	OL	PRPH
NC_056056.1	136940001	136960001	5.17339	0.247203	OL	PRPH
NC_056077.1	41750001	41770001	4.42501	0.292994	OL	PSMG3
NC_056077.1	41755001	41775001	4.49178	0.300629	OL	PSMG3;TMEM184A

NC_056077.1	41760001	41780001	4.10141	0.248659	OL	PSMG3;TMEM184A
NC_056071.1	29875001	29895001	3.36187	0.373705	OL	PSTPIP1
NC_056071.1	29880001	29900001	3.72618	0.391842	OL	PSTPIP1
NC_056071.1	29885001	29905001	2.86728	0.366761	OL	PSTPIP1
NC_056055.1	13875001	13895001	3.1523	0.354135	OL	PTPN3
NC_056055.1	78135001	78155001	3.48504	0.28848	OL	PTPRD
NC_056072.1	39215001	39235001	4.91712	0.420531	OL	PTPRG
NC_056072.1	39220001	39240001	4.01917	0.416875	OL	PTPRG
NC_056072.1	39525001	39545001	3.87457	0.361061	OL	PTPRG
NC_056072.1	39530001	39550001	6.32451	0.354989	OL	PTPRG
NC_056072.1	39535001	39555001	3.59615	0.280691	OL	PTPRG
NC_056055.1	71160001	71180001	2.70152	0.30349	OL	PUM3
NC_056057.1	48100001	48120001	5.01986	0.220763	OL	PUS7
NC_056056.1	194330001	194350001	3.69141	0.276298	OL	PYROXD1
NC_056064.1	43560001	43580001	7.96154	0.257993	OL	PYY
NC_056064.1	43565001	43585001	7.43403	0.253512	OL	PYY
NC_056059.1	4340001	4360001	3.15024	0.256857	OL	QRFPR
NC_056056.1	33375001	33395001	2.35862	0.273791	OL	RAB10
NC_056065.1	55460001	55480001	5.3502	0.264778	OL	RABGAP1L
NC_056065.1	55465001	55485001	6.99562	0.2152	OL	RABGAP1L
NC_056065.1	55505001	55525001	2.6093	0.282576	OL	RABGAP1L
NC_056065.1	55515001	55535001	2.46438	0.302181	OL	RABGAP1L
NC_056065.1	55520001	55540001	3.56146	0.260652	OL	RABGAP1L
NC_056057.1	78135001	78155001	2.64046	0.226109	OL	RAMP3
NC_056057.1	78140001	78160001	4.15301	0.266775	OL	RAMP3
NC_056057.1	78145001	78165001	6.69275	0.290619	OL	RAMP3
NC_056057.1	78150001	78170001	3.66083	0.278986	OL	RAMP3
NC_056058.1	20645001	20665001	2.37245	0.256451	OL	RAPGEF6
NC_056058.1	20650001	20670001	2.39011	0.253755	OL	RAPGEF6
NC_056079.1	39770001	39790001	7.09183	0.420307	OL	RARB
NC_056079.1	39775001	39795001	10.269	0.45681	OL	RARB
NC_056079.1	39780001	39800001	11.7329	0.434673	OL	RARB
NC_056079.1	39785001	39805001	15.3333	0.384549	OL	RARB
NC_056065.1	58935001	58955001	2.76255	0.235819	OL	RASAL2
NC_056065.1	58940001	58960001	4.30168	0.260128	OL	RASAL2
NC_056065.1	58945001	58965001	4.38117	0.257771	OL	RASAL2
NC_056065.1	58950001	58970001	2.56949	0.230951	OL	RASAL2
NC_056065.1	58990001	59010001	2.94687	0.223038	OL	RASAL2
NC_056065.1	58995001	59015001	3.1649	0.236106	OL	RASAL2
NC_056065.1	59000001	59020001	3.66219	0.242142	OL	RASAL2
NC_056077.1	6610001	6630001	4.32675	0.254112	OL	RBFOX1
NC_056077.1	6615001	6635001	4.78188	0.253563	OL	RBFOX1
NC_056077.1	6620001	6640001	4.46226	0.240848	OL	RBFOX1
NC_056077.1	6625001	6645001	4.07441	0.244902	OL	RBFOX1
NC_056073.1	39305001	39325001	2.34615	0.233793	OL	RBM24
NC_056073.1	39310001	39330001	2.46796	0.239404	OL	RBM24
NC_056072.1	3865001	3885001	2.51435	0.284422	OL	RBMS3
NC_056072.1	3870001	3890001	2.8431	0.241655	OL	RBMS3
NC_056072.1	4475001	4495001	2.78628	0.227095	OL	RBMS3
NC_056072.1	4480001	4500001	2.37534	0.240841	OL	RBMS3
NC_056072.1	4485001	4505001	2.71655	0.238553	OL	RBMS3
NC_056073.1	19550001	19570001	4.19759	0.2643	OL	RCAN2
NC_056073.1	19555001	19575001	2.55969	0.231762	OL	RCAN2
NC_056073.1	19670001	19690001	21.0476	0.212903	OL	RCAN2
NC_056071.1	29845001	29865001	8.51093	0.25046	OL	RCN2
NC_056055.1	52415001	52435001	3.32759	0.263855	OL	RECK
NC_056055.1	52420001	52440001	12.7736	0.342238	OL	RECK
NC_056076.1	60920001	60940001	16.307	0.277621	OL	RELCH
NC_056076.1	60925001	60945001	10.6454	0.217325	OL	RELCH
NC_056076.1	60945001	60965001	9.75212	0.233867	OL	RELCH
NC_056076.1	60950001	60970001	11.165	0.269754	OL	RELCH
NC_056076.1	61010001	61030001	4.7544	0.274824	OL	RELCH
NC_056076.1	61015001	61035001	2.62342	0.216877	OL	RELCH
NC_056057.1	46470001	46490001	3.02922	0.547101	OL	RELN
NC_056057.1	46480001	46500001	2.81932	0.428781	OL	RELN
NC_056057.1	46485001	46505001	2.91915	0.350466	OL	RELN
NC_056057.1	46490001	46510001	2.56897	0.240155	OL	RELN
NC_056065.1	44155001	44175001	3.58846	0.22194	OL	RERE
NC_056065.1	44160001	44180001	6.91379	0.254442	OL	RERE
NC_056065.1	44165001	44185001	7.83814	0.267327	OL	RERE
NC_056065.1	44170001	44190001	9.2778	0.263486	OL	RERE
NC_056065.1	44175001	44195001	8.10793	0.244951	OL	RERE
NC_056065.1	44180001	44200001	6.1976	0.213771	OL	RERE
NC_056056.1	100120001	100140001	20.562	0.434403	OL	RFX8



NC_056065.1	64380001	64400001	3.34649	0.237087	OL	RGL1
NC_056065.1	64390001	64410001	4.83457	0.220466	OL	RGL1
NC_056060.1	81585001	81605001	2.50284	0.317753	OL	RGS6
NC_056060.1	81590001	81610001	3.00565	0.383056	OL	RGS6
NC_056060.1	81595001	81615001	3.50363	0.451033	OL	RGS6
NC_056060.1	81600001	81620001	3.54377	0.430104	OL	RGS6
NC_056060.1	81625001	81645001	3.0787	0.365901	OL	RGS6
NC_056060.1	81630001	81650001	3.60402	0.39293	OL	RGS6
NC_056060.1	81635001	81655001	3.51005	0.401892	OL	RGS6
NC_056060.1	81640001	81660001	3.31441	0.398696	OL	RGS6
NC_056060.1	81645001	81665001	2.40047	0.341321	OL	RGS6
NC_056056.1	212700001	212720001	2.87559	0.276597	OL	RHNO1;TULP3
NC_056062.1	73880001	73900001	3.76958	0.252434	OL	RIMS2
NC_056062.1	73885001	73905001	3.33447	0.278523	OL	RIMS2
NC_056076.1	33575001	33595001	4.38462	0.240418	OL	RIOK3
NC_056063.1	20740001	20760001	3.64706	0.243545	OL	RNASEH2B
NC_056063.1	20745001	20765001	5.34532	0.261282	OL	RNASEH2B
NC_056058.1	68340001	68360001	2.61422	0.297534	OL	RNF145
NC_056058.1	68345001	68365001	2.76782	0.327294	OL	RNF145
NC_056058.1	68350001	68370001	3	0.353604	OL	RNF145
NC_056062.1	76990001	77010001	3.04106	0.432356	OL	RNF19A
NC_056062.1	76995001	77015001	3.99727	0.437071	OL	RNF19A
NC_056062.1	77000001	77020001	3.60308	0.400133	OL	RNF19A
NC_056062.1	77005001	77025001	2.93814	0.321728	OL	RNF19A
NC_056062.1	77010001	77030001	3.3649	0.287347	OL	RNF19A
NC_056062.1	77015001	77035001	3.08873	0.298447	OL	RNF19A
NC_056062.1	77020001	77040001	3.85035	0.296944	OL	RNF19A
NC_056062.1	77025001	77045001	2.37179	0.237635	OL	RNF19A
NC_056064.1	51715001	51735001	10.6554	0.314105	OL	RNF213
NC_056055.1	52105001	52125001	5.55844	0.383237	OL	RNF38
NC_056055.1	52125001	52145001	2.67204	0.45051	OL	RNF38
NC_056064.1	9060001	9080001	2.54378	0.300474	OL	RNF43
NC_056064.1	9065001	9085001	2.4898	0.283096	OL	RNF43
NC_056054.1	147740001	147760001	2.54275	0.218557	OL	ROBO1
NC_056054.1	147745001	147765001	4.61954	0.265594	OL	ROBO1
NC_056054.1	147750001	147770001	2.92075	0.236877	OL	ROBO1
NC_056054.1	147755001	147775001	2.41568	0.222094	OL	ROBO1
NC_056054.1	145375001	145395001	3.15492	0.214532	OL	ROBO2
NC_056054.1	39205001	39225001	2.51428	0.214273	OL	ROR1
NC_056060.1	47125001	47145001	4.43669	0.225553	OL	RORA
NC_056060.1	47130001	47150001	3.88811	0.335898	OL	RORA
NC_056060.1	47135001	47155001	3.51525	0.374516	OL	RORA
NC_056060.1	47140001	47160001	3.35069	0.481397	OL	RORA
NC_056060.1	47145001	47165001	2.84573	0.449506	OL	RORA
NC_056055.1	104515001	104535001	4.21054	0.287689	OL	RP1L1
NC_056055.1	104520001	104540001	7.82059	0.325933	OL	RP1L1
NC_056055.1	104525001	104545001	10.8514	0.32872	OL	RP1L1
NC_056055.1	104530001	104550001	12.4838	0.350677	OL	RP1L1
NC_056055.1	104535001	104555001	6.60627	0.290447	OL	RP1L1
NC_056080.1	37840001	37860001	2.91607	0.214052	OL	RPGR
NC_056077.1	14200001	14220001	3.13193	0.24528	OL	RRN3
NC_056077.1	14205001	14225001	3.61225	0.242755	OL	RRN3
NC_056066.1	30490001	30510001	3.62387	0.217637	OL	RSU1
NC_056066.1	30495001	30515001	8.65267	0.300032	OL	RSU1
NC_056066.1	30500001	30520001	4.41942	0.287636	OL	RSU1
NC_056066.1	30505001	30525001	3.42231	0.278701	OL	RSU1
NC_056066.1	30510001	30530001	2.95885	0.305123	OL	RSU1
NC_056066.1	30520001	30540001	2.36574	0.314723	OL	RSU1
NC_056064.1	43835001	43855001	3.07058	0.251903	OL	RUNDC3A
NC_056064.1	43840001	43860001	3.76988	0.257918	OL	RUNDC3A
NC_056054.1	267645001	267665001	2.81995	0.240817	OL	RUNX1
NC_056054.1	267660001	267680001	4.52795	0.259559	OL	RUNX1
NC_056060.1	8065001	8085001	2.47567	0.378926	OL	S100Z
NC_056060.1	8070001	8090001	3.42644	0.369195	OL	S100Z
NC_056060.1	8075001	8095001	5.63398	0.327096	OL	S100Z
NC_056060.1	8080001	8100001	7.04221	0.330499	OL	S100Z
NC_056060.1	8085001	8105001	3.20182	0.236832	OL	S100Z
NC_056054.1	143475001	143495001	3.28843	0.229983	OL	SAMSN1
NC_056054.1	143480001	143500001	2.44166	0.215331	OL	SAMSN1
NC_056055.1	117465001	117485001	2.61643	0.407832	OL	SAP130
NC_056055.1	117470001	117490001	2.35616	0.38182	OL	SAP130
NC_056055.1	117495001	117515001	2.38566	0.268357	OL	SAP130
NC_056055.1	117500001	117520001	3.17235	0.299427	OL	SAP130
NC_056055.1	117505001	117525001	2.47313	0.282733	OL	SAP130

NC_056055.1	117510001	117530001	2.41917	0.28288	OL	SAP130
NC_056058.1	43765001	43785001	2.387	0.352888	OL	SAR1B
NC_056058.1	43770001	43790001	2.41015	0.360732	OL	SAR1B
NC_056061.1	79310001	79330001	2.71951	0.344431	OL	SCAF8
NC_056061.1	79315001	79335001	2.70948	0.3347	OL	SCAF8
NC_056061.1	79320001	79340001	3.43599	0.307914	OL	SCAF8
NC_056063.1	53340001	53360001	2.48213	0.221852	OL	SCEL
NC_056070.1	29140001	29160001	2.78917	0.382837	OL	SCLT1
NC_056070.1	29145001	29165001	3.40039	0.454746	OL	SCLT1
NC_056070.1	29150001	29170001	3.10017	0.394317	OL	SCLT1
NC_056070.1	29155001	29175001	3.44985	0.369552	OL	SCLT1
NC_056070.1	29160001	29180001	3.67052	0.340757	OL	SCLT1
NC_056070.1	29165001	29185001	6.54797	0.321959	OL	SCLT1
NC_056070.1	29170001	29190001	9.05098	0.340183	OL	SCLT1
NC_056070.1	29175001	29195001	10.8841	0.330083	OL	SCLT1
NC_056054.1	15595001	15615001	2.52806	0.220358	OL	SCMH1
NC_056054.1	15600001	15620001	2.6008	0.285123	OL	SCMH1
NC_056054.1	15605001	15625001	2.63622	0.305953	OL	SCMH1
NC_056054.1	15610001	15630001	2.46378	0.264681	OL	SCMH1
NC_056054.1	15615001	15635001	2.33519	0.236959	OL	SCMH1
NC_056054.1	15535001	15555001	3.00926	0.394713	OL	SCMH1;SLFNLI
NC_056054.1	15540001	15560001	2.84616	0.382564	OL	SCMH1;SLFNLI
NC_056054.1	15545001	15565001	2.46629	0.283211	OL	SCMH1;SLFNLI
NC_056072.1	12135001	12155001	2.48241	0.251816	OL	SCN10A
NC_056059.1	16230001	16250001	3.22222	0.243514	OL	SEC24B
NC_056059.1	16235001	16255001	3.4499	0.232959	OL	SEC24B
NC_056059.1	16240001	16260001	5.77478	0.255384	OL	SEC24B
NC_056059.1	16245001	16265001	5.89842	0.25227	OL	SEC24B
NC_056056.1	225510001	225530001	6.008	0.376816	OL	SELENOO;TUBGCP6
NC_056067.1	48545001	48565001	2.52174	0.253933	OL	SELENOV
NC_056056.1	62410001	62430001	5.80401	0.393792	OL	SEPTIN10
NC_056056.1	62415001	62435001	5.12048	0.393223	OL	SEPTIN10
NC_056056.1	62420001	62440001	5.72858	0.364083	OL	SEPTIN10
NC_056056.1	62425001	62445001	5.81343	0.39008	OL	SEPTIN10
NC_056056.1	62430001	62450001	5.93924	0.385664	OL	SEPTIN10
NC_056056.1	62435001	62455001	5.8458	0.389407	OL	SEPTIN10
NC_056056.1	62440001	62460001	8.49462	0.423662	OL	SEPTIN10
NC_056056.1	62445001	62465001	10.8482	0.43623	OL	SEPTIN10
NC_056056.1	62450001	62470001	8.05556	0.419544	OL	SEPTIN10
NC_056056.1	62455001	62475001	6.44558	0.393331	OL	SEPTIN10
NC_056056.1	62405001	62425001	6.52336	0.386974	OL	SEPTIN10;SH3RF3
NC_056056.1	62460001	62480001	4.0254	0.34625	OL	SEPTIN10;SOWAHC
NC_056078.1	34665001	34685001	3.69857	0.27698	OL	SFTPD
NC_056061.1	59575001	59595001	4.68422	0.230182	OL	SGK1
NC_056055.1	86175001	86195001	2.56025	0.213247	OL	SH3GL2
NC_056080.1	18095001	18115001	3.98272	0.350353	OL	SH3KBP1
NC_056080.1	18115001	18135001	9.37502	0.236503	OL	SH3KBP1
NC_056080.1	18220001	18240001	3.90099	0.359065	OL	SH3KBP1
NC_056080.1	18225001	18245001	3.30232	0.325205	OL	SH3KBP1
NC_056080.1	18230001	18250001	3.16908	0.349307	OL	SH3KBP1
NC_056080.1	18235001	18255001	3.26398	0.331479	OL	SH3KBP1
NC_056080.1	18240001	18260001	3.5	0.342406	OL	SH3KBP1
NC_056080.1	18245001	18265001	9.44916	0.308916	OL	SH3KBP1
NC_056056.1	62375001	62395001	3.9972	0.225688	OL	SH3RF3
NC_056056.1	62380001	62400001	2.5347	0.238972	OL	SH3RF3
NC_056056.1	62390001	62410001	2.73846	0.281413	OL	SH3RF3
NC_056056.1	62395001	62415001	3.89087	0.331899	OL	SH3RF3
NC_056056.1	62400001	62420001	4.73947	0.354188	OL	SH3RF3
NC_056074.1	43965001	43985001	2.52557	0.228324	OL	SHANK2
NC_056074.1	43970001	43990001	2.3428	0.250217	OL	SHANK2
NC_056074.1	44055001	44075001	3.52892	0.277216	OL	SHANK2
NC_056074.1	44060001	44080001	4.65448	0.291635	OL	SHANK2
NC_056074.1	44065001	44085001	3.19589	0.310043	OL	SHANK2
NC_056074.1	44070001	44090001	2.38484	0.286264	OL	SHANK2
NC_056074.1	25595001	25615001	6.19049	0.33764	OL	SIAE;SPA17
NC_056067.1	56010001	56030001	2.45283	0.238265	OL	SIGLEC11;VRK3
NC_056068.1	27325001	27345001	2.49468	0.254017	OL	SIK3
NC_056068.1	27330001	27350001	2.86324	0.327483	OL	SIK3
NC_056068.1	27370001	27390001	3.57875	0.313363	OL	SIK3
NC_056068.1	27375001	27395001	5.53846	0.273177	OL	SIK3
NC_056068.1	27380001	27400001	8.07142	0.251417	OL	SIK3
NC_056068.1	27395001	27415001	4.60741	0.246378	OL	SIK3
NC_056068.1	27400001	27420001	2.75675	0.294933	OL	SIK3
NC_056068.1	27460001	27480001	3.87999	0.226644	OL	SIK3

NC_056060.1	5025001	5045001	2.4515	0.247682	OL	SIMC1
NC_056060.1	5030001	5050001	2.53855	0.274077	OL	SIMC1
NC_056060.1	5035001	5055001	2.61432	0.256794	OL	SIMC1
NC_056060.1	5040001	5060001	2.78752	0.235488	OL	SIMC1
NC_056060.1	5045001	5065001	5.14322	0.265191	OL	SIMC1
NC_056060.1	5050001	5070001	4.19401	0.253217	OL	SIMC1
NC_056060.1	5055001	5075001	5.28665	0.239859	OL	SIMC1
NC_056060.1	5060001	5080001	6.07317	0.229478	OL	SIMC1
NC_056060.1	5065001	5085001	6.03531	0.282804	OL	SIMC1
NC_056060.1	5070001	5090001	11.8606	0.335732	OL	SIMC1
NC_056060.1	5075001	5095001	9.43243	0.420104	OL	SIMC1
NC_056060.1	5080001	5100001	5.07472	0.384387	OL	SIMC1
NC_056060.1	5085001	5105001	3.23679	0.263864	OL	SIMC1
NC_056064.1	37950001	37970001	3.65158	0.257145	OL	SKAP1
NC_056064.1	37955001	37975001	4.71186	0.305512	OL	SKAP1
NC_056064.1	37960001	37980001	6.31465	0.338859	OL	SKAP1
NC_056064.1	37965001	37985001	5.4074	0.31335	OL	SKAP1
NC_056064.1	37970001	37990001	3.37024	0.228118	OL	SKAP1
NC_056064.1	38005001	38025001	4.61683	0.213555	OL	SKAP1
NC_056064.1	38010001	38030001	7.5255	0.256751	OL	SKAP1
NC_056064.1	38015001	38035001	9.17263	0.269044	OL	SKAP1
NC_056064.1	38025001	38045001	7.87366	0.304621	OL	SKAP1
NC_056064.1	38030001	38050001	4.75125	0.282783	OL	SKAP1
NC_056064.1	38035001	38055001	3.0106	0.260327	OL	SKAP1
NC_056062.1	21385001	21405001	4.23628	0.435716	OL	SLA;TG
NC_056057.1	89090001	89110001	3.12547	0.319399	OL	SLC13A1
NC_056076.1	45350001	45370001	3.03183	0.351074	OL	SLC14A2
NC_056076.1	45355001	45375001	4.41261	0.252768	OL	SLC14A2
NC_056054.1	187195001	187215001	2.36054	0.242202	OL	SLC15A2
NC_056056.1	199240001	199260001	3.82554	0.248302	OL	SLC15A5
NC_056056.1	199245001	199265001	5.79822	0.303273	OL	SLC15A5
NC_056056.1	199250001	199270001	5.06822	0.289035	OL	SLC15A5
NC_056056.1	199255001	199275001	6.16023	0.305963	OL	SLC15A5
NC_056056.1	199260001	199280001	4.9155	0.286793	OL	SLC15A5
NC_056080.1	66640001	66660001	4.48717	0.282887	OL	SLC16A2
NC_056080.1	66645001	66665001	2.7301	0.241392	OL	SLC16A2
NC_056066.1	46940001	46960001	2.33688	0.320842	OL	SLC23A2
NC_056055.1	88135001	88155001	2.76614	0.221707	OL	SLC24A2
NC_056072.1	51110001	51130001	2.73958	0.284654	OL	SLC25A20
NC_056074.1	40830001	40850001	2.63888	0.434537	OL	SLC29A2
NC_056074.1	40835001	40855001	2.98438	0.360479	OL	SLC29A2
NC_056054.1	17365001	17385001	3.29931	0.249131	OL	SLC2A1
NC_056054.1	17370001	17390001	2.52305	0.263499	OL	SLC2A1
NC_056056.1	147570001	147590001	10.5153	0.263878	OL	SLC2A13
NC_056056.1	147575001	147595001	15.7612	0.256721	OL	SLC2A13
NC_056056.1	147580001	147600001	23.114	0.258181	OL	SLC2A13
NC_056056.1	147585001	147605001	12.6576	0.222296	OL	SLC2A13
NC_056064.1	43815001	43835001	2.40389	0.215452	OL	SLC4A1
NC_056067.1	23375001	23395001	3.12245	0.218188	OL	SLC6A2
NC_056054.1	217620001	217640001	3.13658	0.283802	OL	SLC7A14
NC_056054.1	217625001	217645001	3.50639	0.29261	OL	SLC7A14
NC_056054.1	217630001	217650001	3.42094	0.241313	OL	SLC7A14
NC_056065.1	54295001	54315001	5.99999	0.24487	OL	SLC9C2
NC_056056.1	194335001	194355001	6.76032	0.300626	OL	SLC01A2
NC_056056.1	194340001	194360001	5.30112	0.294742	OL	SLC01A2
NC_056056.1	194345001	194365001	3.87069	0.298009	OL	SLC01A2
NC_056080.1	51235001	51255001	2.38806	0.284051	OL	SMC1A
NC_056056.1	221640001	221660001	2.82629	0.267854	OL	SMC1B
NC_056056.1	221645001	221665001	2.37037	0.233914	OL	SMC1B
NC_056065.1	30605001	30625001	3.39434	0.258224	OL	SMYD3
NC_056080.1	63765001	63785001	2.41176	0.213131	OL	SNX12
NC_056062.1	93665001	93685001	8.11217	0.339431	OL	SNX16
NC_056062.1	93670001	93690001	4.33086	0.254553	OL	SNX16
NC_056058.1	28510001	28530001	2.70894	0.236574	OL	SNX24
NC_056079.1	14795001	14815001	2.39081	0.245642	OL	SNX25
NC_056056.1	77590001	77610001	2.86828	0.241165	OL	SOCS5
NC_056056.1	3610001	3630001	10.2778	0.446702	OL	SOHLH1
NC_056056.1	3615001	3635001	2.79493	0.263577	OL	SOHLH1
NC_056059.1	114330001	114350001	3.04809	0.255652	OL	SORCS2
NC_056056.1	191340001	191360001	3.07868	0.257091	OL	SOX5
NC_056056.1	191345001	191365001	11.0283	0.216957	OL	SOX5
NC_056056.1	191660001	191680001	2.33201	0.273385	OL	SOX5
NC_056056.1	191665001	191685001	2.73608	0.287102	OL	SOX5
NC_056056.1	191670001	191690001	3.54124	0.291306	OL	SOX5

NC_056056.1	191675001	191695001	4.87713	0.292982	OL	SOX5
NC_056056.1	191680001	191700001	7.9195	0.305347	OL	SOX5
NC_056056.1	191685001	191705001	19.0663	0.314106	OL	SOX5
NC_056056.1	191690001	191710001	7.70483	0.291887	OL	SOX5
NC_056056.1	191695001	191715001	3.57579	0.235707	OL	SOX5
NC_056056.1	192005001	192025001	2.59221	0.363014	OL	SOX5
NC_056056.1	192010001	192030001	3.98526	0.356336	OL	SOX5
NC_056056.1	192015001	192035001	6.01785	0.351622	OL	SOX5
NC_056056.1	192020001	192040001	7.84033	0.24927	OL	SOX5
NC_056064.1	58100001	58120001	2.52758	0.358517	OL	SOX9
NC_056069.1	1645001	1665001	6.21703	0.250935	OL	SPDL1
NC_056069.1	1650001	1670001	29.3846	0.286734	OL	SPDL1
NC_056069.1	1655001	1675001	47.6429	0.235258	OL	SPDL1
NC_056060.1	11870001	11890001	6.01858	0.284479	OL	SPG21
NC_056054.1	179140001	179160001	2.70809	0.21838	OL	SPICE1
NC_056060.1	86840001	86860001	28.3204	0.334065	OL	SPTLC2
NC_056066.1	6445001	6465001	7.76833	0.215982	OL	SPTLC3
NC_056066.1	6450001	6470001	8.34957	0.221773	OL	SPTLC3
NC_056070.1	56300001	56320001	26.2165	0.250314	OL	SRRM4
NC_056070.1	56315001	56335001	8.99999	0.243758	OL	SRRM4
NC_056070.1	56320001	56340001	4.34177	0.220775	OL	SRRM4
NC_056062.1	20955001	20975001	5.4628	0.240569	OL	ST3GAL1
NC_056062.1	20960001	20980001	11.9621	0.367203	OL	ST3GAL1
NC_056062.1	20995001	21015001	8.42587	0.382698	OL	ST3GAL1
NC_056062.1	21000001	21020001	5.18596	0.36977	OL	ST3GAL1
NC_056062.1	21005001	21025001	3.71126	0.366736	OL	ST3GAL1
NC_056062.1	21035001	21055001	2.3578	0.280073	OL	ST3GAL1
NC_056062.1	21040001	21060001	2.45259	0.265026	OL	ST3GAL1
NC_056056.1	193425001	193445001	5.5197	0.287115	OL	ST8SIA1
NC_056056.1	193430001	193450001	3.18955	0.27663	OL	ST8SIA1
NC_056056.1	193435001	193455001	3.27357	0.27819	OL	ST8SIA1
NC_056058.1	97700001	97720001	9.06719	0.25617	OL	ST8SIA4
NC_056057.1	51575001	51595001	2.50878	0.224666	OL	STARD3NL
NC_056057.1	51580001	51600001	2.6955	0.238606	OL	STARD3NL
NC_056080.1	61620001	61640001	3.78934	0.461144	OL	STARD8
NC_056064.1	42215001	42235001	3.11421	0.352092	OL	STAT3
NC_056058.1	56305001	56325001	4.56385	0.241173	OL	STK32A
NC_056055.1	38570001	38590001	4.20747	0.256167	OL	STMN4
NC_056055.1	38575001	38595001	2.98664	0.235319	OL	STMN4
NC_056079.1	13635001	13655001	8.9045	0.234983	OL	STOX2
NC_056056.1	77245001	77265001	2.81166	0.228678	OL	STPG4
NC_056070.1	46400001	46420001	3.72499	0.213397	OL	STX2
NC_056057.1	81985001	82005001	5.72668	0.215054	OL	SUGCT
NC_056057.1	82390001	82410001	3.78028	0.261896	OL	SUGCT
NC_056057.1	82395001	82415001	12.0381	0.390431	OL	SUGCT
NC_056057.1	82415001	82435001	9.96062	0.354651	OL	SUGCT
NC_056057.1	82420001	82440001	3.20584	0.307311	OL	SUGCT
NC_056057.1	82425001	82445001	2.81592	0.289341	OL	SUGCT
NC_056057.1	82510001	82530001	3.27917	0.317227	OL	SUGCT
NC_056057.1	82515001	82535001	3.87885	0.377436	OL	SUGCT
NC_056057.1	82545001	82565001	2.79869	0.552124	OL	SUGCT
NC_056057.1	82550001	82570001	3.3896	0.469383	OL	SUGCT
NC_056057.1	82555001	82575001	2.46863	0.319136	OL	SUGCT
NC_056062.1	46335001	46355001	13.3095	0.213543	OL	SULF1
NC_056062.1	46340001	46360001	7.6	0.246869	OL	SULF1
NC_056062.1	46345001	46365001	4.57875	0.216965	OL	SULF1
NC_056064.1	8990001	9010001	8.65036	0.268785	OL	SUPT4H1;TSPOAP1
NC_056056.1	115445001	115465001	3.28827	0.313164	OL	SYT1
NC_056056.1	115450001	115470001	2.94901	0.239715	OL	SYT1
NC_056056.1	182010001	182030001	3.14696	0.215531	OL	SYT10
NC_056056.1	182015001	182035001	3.09925	0.220529	OL	SYT10
NC_056080.1	37305001	37325001	2.36296	0.251087	OL	SYTL5
NC_056074.1	39790001	39810001	2.69269	0.224258	OL	SYVN1
NC_056061.1	57945001	57965001	3.45126	0.309659	OL	TAAR8
NC_056061.1	57950001	57970001	4.91882	0.33629	OL	TAAR8
NC_056062.1	94085001	94105001	2.42445	0.230266	OL	TAF2
NC_056062.1	94090001	94110001	4.25345	0.281131	OL	TAF2
NC_056062.1	94095001	94115001	7.88104	0.338318	OL	TAF2
NC_056062.1	94100001	94120001	8.58335	0.33359	OL	TAF2
NC_056062.1	94105001	94125001	10.2792	0.329908	OL	TAF2
NC_056062.1	94110001	94130001	14.5813	0.350786	OL	TAF2
NC_056062.1	94115001	94135001	8.54819	0.306804	OL	TAF2
NC_056062.1	94120001	94140001	9.57023	0.327983	OL	TAF2
NC_056062.1	94125001	94145001	8.0735	0.329541	OL	TAF2

NC_056062.1	94130001	94150001	7.09274	0.32662	OL	TAF2
NC_056062.1	94135001	94155001	7.02917	0.303468	OL	TAF2
NC_056062.1	94140001	94160001	5.45645	0.270589	OL	TAF2
NC_056062.1	94145001	94165001	5.31419	0.23834	OL	TAF2
NC_056062.1	94175001	94195001	6.65015	0.223021	OL	TAF2
NC_056064.1	47420001	47440001	2.58895	0.258062	OL	TANC2
NC_056064.1	47425001	47445001	2.70567	0.26882	OL	TANC2
NC_056059.1	46660001	46680001	2.77259	0.21443	OL	TBC1D19
NC_056060.1	51245001	51265001	2.49714	0.245657	OL	TCF12
NC_056060.1	51250001	51270001	2.3619	0.273467	OL	TCF12
NC_056060.1	51315001	51335001	2.45517	0.231506	OL	TCF12
NC_056060.1	51505001	51525001	2.44025	0.248935	OL	TCF12
NC_056060.1	51510001	51530001	3.32143	0.217157	OL	TCF12
NC_056058.1	41660001	41680001	2.77194	0.225783	OL	TCF3
NC_056058.1	41675001	41695001	2.8189	0.283324	OL	TCF3
NC_056058.1	41680001	41700001	2.86154	0.278207	OL	TCF3
NC_056058.1	41685001	41705001	2.76456	0.277396	OL	TCF3
NC_056076.1	55265001	55285001	5.73684	0.230338	OL	TCF4
NC_056076.1	55270001	55290001	4.31262	0.236209	OL	TCF4
NC_056076.1	55275001	55295001	2.75523	0.21291	OL	TCF4
NC_056055.1	50215001	50235001	20.9885	0.216416	OL	TDRD7
NC_056055.1	50250001	50270001	3.32379	0.444349	OL	TDRD7
NC_056059.1	80515001	80535001	2.71059	0.317829	OL	TECRL
NC_056059.1	80520001	80540001	7.13487	0.364121	OL	TECRL
NC_056059.1	80525001	80545001	7.60769	0.361795	OL	TECRL
NC_056059.1	80530001	80550001	7.80976	0.362829	OL	TECRL
NC_056059.1	80535001	80555001	5.86086	0.34567	OL	TECRL
NC_056059.1	80540001	80560001	3.92697	0.318726	OL	TECRL
NC_056059.1	80545001	80565001	3.14161	0.314893	OL	TECRL
NC_056080.1	108945001	108965001	2.55512	0.254642	OL	TENM1
NC_056080.1	108950001	108970001	2.57934	0.257628	OL	TENM1
NC_056080.1	108955001	108975001	2.92274	0.275358	OL	TENM1
NC_056060.1	10605001	10625001	3.75315	0.266795	OL	TENT2
NC_056060.1	10610001	10630001	4.24015	0.236144	OL	TENT2
NC_056060.1	10615001	10635001	4.59576	0.237063	OL	TENT2
NC_056060.1	10620001	10640001	4.78486	0.24844	OL	TENT2
NC_056078.1	24185001	24205001	3.19623	0.227733	OL	TET1
NC_056078.1	24200001	24220001	6.33888	0.301875	OL	TET1
NC_056078.1	24205001	24225001	4.47419	0.269274	OL	TET1
NC_056078.1	24210001	24230001	3.49824	0.240182	OL	TET1
NC_056078.1	24235001	24255001	2.34483	0.410353	OL	TET1
NC_056078.1	24240001	24260001	3.2644	0.406125	OL	TET1
NC_056078.1	24245001	24265001	5.92538	0.355318	OL	TET1
NC_056078.1	24250001	24270001	7.45003	0.347673	OL	TET1
NC_056080.1	63555001	63575001	2.82655	0.672179	OL	TEX11
NC_056055.1	233310001	233330001	3.8	0.352364	OL	TEX44
NC_056055.1	233315001	233335001	3.27875	0.399934	OL	TEX44
NC_056055.1	233320001	233340001	2.8522	0.387791	OL	TEX44
NC_056055.1	233325001	233345001	2.49236	0.371003	OL	TEX44
NC_056055.1	9115001	9135001	4.4744	0.267386	OL	TEX48
NC_056055.1	9120001	9140001	5.15636	0.290968	OL	TEX48
NC_056055.1	9125001	9145001	3.47422	0.240771	OL	TEX48;TMEM268
NC_056057.1	53875001	53895001	3.26307	0.274917	OL	TFEC
NC_056057.1	53880001	53900001	4.35841	0.332948	OL	TFEC
NC_056057.1	53885001	53905001	7.68672	0.359542	OL	TFEC
NC_056057.1	53890001	53910001	14.2415	0.379889	OL	TFEC
NC_056057.1	53895001	53915001	14.7639	0.368099	OL	TFEC
NC_056057.1	53905001	53925001	5.8653	0.278426	OL	TFEC
NC_056057.1	53910001	53930001	3.0929	0.233536	OL	TFEC
NC_056057.1	53955001	53975001	2.68768	0.240686	OL	TFEC
NC_056057.1	53960001	53980001	4.08807	0.253473	OL	TFEC
NC_056057.1	53965001	53985001	10.5895	0.263324	OL	TFEC
NC_056057.1	53970001	53990001	18.8174	0.251281	OL	TFEC
NC_056057.1	54000001	54020001	20.5643	0.215051	OL	TFEC
NC_056062.1	21295001	21315001	4.44279	0.226503	OL	TG
NC_056062.1	21300001	21320001	7.83385	0.418215	OL	TG
NC_056056.1	80900001	80920001	2.40171	0.27278	OL	THADA
NC_056056.1	80905001	80925001	3.8349	0.305503	OL	THADA
NC_056056.1	80910001	80930001	22.4857	0.361835	OL	THADA
NC_056056.1	80930001	80950001	10.8828	0.283203	OL	THADA
NC_056056.1	80935001	80955001	4.32771	0.243921	OL	THADA
NC_056056.1	80940001	80960001	3.00259	0.27114	OL	THADA
NC_056061.1	53180001	53200001	3.36085	0.229153	OL	THEMIS
NC_056061.1	53185001	53205001	2.65517	0.258568	OL	THEMIS

NC_056061.1	53355001	53375001	2.91148	0.27059	OL	THEMIS
NC_056061.1	53360001	53380001	2.44409	0.324158	OL	THEMIS
NC_056060.1	18465001	18485001	2.38477	0.284119	OL	THSD4
NC_056060.1	18470001	18490001	3.84675	0.323759	OL	THSD4
NC_056060.1	18475001	18495001	4.69527	0.354974	OL	THSD4
NC_056060.1	18480001	18500001	3.19454	0.347955	OL	THSD4
NC_056055.1	173330001	173350001	2.52628	0.315844	OL	THSD7B
NC_056054.1	124815001	124835001	2.42893	0.226288	OL	TIAM1
NC_056054.1	124820001	124840001	2.84914	0.234163	OL	TIAM1
NC_056054.1	124825001	124845001	2.86602	0.23433	OL	TIAM1
NC_056055.1	138610001	138630001	2.8338	0.218444	OL	TLK1
NC_056055.1	138615001	138635001	2.72607	0.229983	OL	TLK1
NC_056055.1	138620001	138640001	2.33732	0.228238	OL	TLK1
NC_056064.1	46655001	46675001	2.67418	0.227172	OL	TLK2
NC_056064.1	46660001	46680001	3.45672	0.258634	OL	TLK2
NC_056064.1	46665001	46685001	5.31337	0.281212	OL	TLK2
NC_056070.1	1830001	1850001	3.44444	0.242461	OL	TLL1
NC_056070.1	1835001	1855001	2.6503	0.241904	OL	TLL1
NC_056070.1	1920001	1940001	3.09045	0.214888	OL	TLL1
NC_056070.1	4185001	4205001	2.69776	0.333352	OL	TLR2
NC_056054.1	191745001	191765001	4.43803	0.244725	OL	TM4SF19;UBXN7
NC_056056.1	136545001	136565001	2.45283	0.225547	OL	TMBIM6
NC_056060.1	86700001	86720001	2.51021	0.278285	OL	TMED8
NC_056060.1	86705001	86725001	2.57468	0.3075	OL	TMED8
NC_056060.1	86710001	86730001	3.65217	0.337708	OL	TMED8
NC_056060.1	86715001	86735001	3.43104	0.326802	OL	TMED8
NC_056060.1	86720001	86740001	3.31598	0.281767	OL	TMED8
NC_056060.1	86725001	86745001	2.57906	0.223874	OL	TMED8
NC_056070.1	50725001	50745001	5.82309	0.251163	OL	TMEM132B
NC_056074.1	7975001	7995001	2.33405	0.390221	OL	TMEM135
NC_056056.1	84490001	84510001	2.37998	0.267382	OL	TMEM178A
NC_056056.1	84495001	84515001	2.52518	0.212686	OL	TMEM178A
NC_056056.1	98990001	99010001	2.90629	0.317551	OL	TMEM182
NC_056056.1	98995001	99015001	3.30464	0.266631	OL	TMEM182
NC_056056.1	99000001	99020001	3.47059	0.262525	OL	TMEM182
NC_056056.1	99005001	99025001	3.61004	0.234568	OL	TMEM182
NC_056057.1	29555001	29575001	2.33585	0.218661	OL	TMEM196
NC_056077.1	28770001	28790001	3.4757	0.218068	OL	TMEM248
NC_056055.1	9160001	9180001	2.36463	0.217291	OL	TMEM268
NC_056060.1	86540001	86560001	11.141	0.244222	OL	TMEM63C
NC_056062.1	21660001	21680001	3.71176	0.225595	OL	TMEM71
NC_056062.1	21665001	21685001	2.68464	0.246574	OL	TMEM71
NC_056055.1	50080001	50100001	5.62122	0.329924	OL	TMOD1
NC_056055.1	8660001	8680001	4.0874	0.221311	OL	TNC
NC_056055.1	8665001	8685001	3.2885	0.237688	OL	TNC
NC_056065.1	40070001	40090001	2.75351	0.283699	OL	TNFSF4
NC_056055.1	8875001	8895001	6.05808	0.219371	OL	TNFSF8
NC_056055.1	8880001	8900001	3.01788	0.220532	OL	TNFSF8
NC_056055.1	220115001	220135001	5.14414	0.470341	OL	TNS1
NC_056057.1	76375001	76395001	2.80215	0.212449	OL	TNS3
NC_056057.1	76395001	76415001	2.37362	0.244566	OL	TNS3
NC_056057.1	76415001	76435001	2.72174	0.218203	OL	TNS3
NC_056057.1	76420001	76440001	3.76755	0.259043	OL	TNS3
NC_056057.1	76425001	76445001	3.95833	0.259061	OL	TNS3
NC_056057.1	76430001	76450001	4.33516	0.236814	OL	TNS3
NC_056057.1	76435001	76455001	4.2744	0.219846	OL	TNS3
NC_056057.1	76490001	76510001	3.28821	0.22416	OL	TNS3
NC_056057.1	76495001	76515001	2.47289	0.240793	OL	TNS3
NC_056057.1	76540001	76560001	2.48275	0.236969	OL	TNS3
NC_056057.1	76545001	76565001	4.78087	0.304745	OL	TNS3
NC_056057.1	76550001	76570001	8.99361	0.36	OL	TNS3
NC_056057.1	76555001	76575001	9.77346	0.404886	OL	TNS3
NC_056057.1	76570001	76590001	4.72676	0.552092	OL	TNS3
NC_056073.1	26375001	26395001	2.3912	0.231611	OL	TNXB
NC_056056.1	107990001	108010001	12.5402	0.21429	OL	TPH2
NC_056056.1	107995001	108015001	19.2903	0.24373	OL	TPH2
NC_056056.1	108020001	108040001	5.06725	0.226836	OL	TPH2
NC_056056.1	108025001	108045001	4.15742	0.219093	OL	TPH2
NC_056057.1	108965001	108985001	22.5086	0.254744	OL	TPK1
NC_056057.1	108970001	108990001	7.73224	0.23716	OL	TPK1
NC_056054.1	2990001	3010001	2.38017	0.278782	OL	TRAF3IP1
NC_056054.1	2995001	3015001	2.56561	0.269195	OL	TRAF3IP1
NC_056073.1	15990001	16010001	2.4836	0.223796	OL	TRERF1
NC_056073.1	15995001	16015001	2.38842	0.222017	OL	TRERF1

NC_056056.1	108540001	108560001	4.63477	0.285072	OL	TRHDE
NC_056056.1	108545001	108565001	8.76015	0.304519	OL	TRHDE
NC_056056.1	108550001	108570001	8.99092	0.351586	OL	TRHDE
NC_056056.1	108555001	108575001	3.82167	0.286634	OL	TRHDE
NC_056080.1	44320001	44340001	19.2621	0.474872	OL	TRIM60
NC_056080.1	44325001	44345001	16.0069	0.519902	OL	TRIM60
NC_056080.1	44330001	44350001	9.56349	0.416213	OL	TRIM60
NC_056080.1	44335001	44355001	5.77717	0.330796	OL	TRIM60
NC_056062.1	61950001	61970001	5.17391	0.213868	OL	TRPS1
NC_056062.1	61965001	61985001	12.8286	0.216727	OL	TRPS1
NC_056062.1	61970001	61990001	6.50952	0.222526	OL	TRPS1
NC_056062.1	61975001	61995001	4.93061	0.231061	OL	TRPS1
NC_056062.1	61980001	62000001	3.75	0.22566	OL	TRPS1
NC_056059.1	26650001	26670001	2.50101	0.254943	OL	TSPAN5
NC_056059.1	26655001	26675001	3.60392	0.293614	OL	TSPAN5
NC_056059.1	26660001	26680001	3.06328	0.290298	OL	TSPAN5
NC_056059.1	26665001	26685001	2.77453	0.280165	OL	TSPAN5
NC_056080.1	38095001	38115001	3.35451	0.214835	OL	TSPAN7
NC_056080.1	38175001	38195001	5.44817	0.248872	OL	TSPAN7
NC_056064.1	8975001	8995001	8.78949	0.267624	OL	TSPOAPI
NC_056073.1	16850001	16870001	3.73729	0.228989	OL	TTBK1
NC_056073.1	16855001	16875001	4.83474	0.264558	OL	TTBK1
NC_056073.1	16860001	16880001	2.81498	0.243243	OL	TTBK1
NC_056056.1	91230001	91250001	2.75862	0.227346	OL	TTC27
NC_056056.1	91235001	91255001	2.73154	0.239283	OL	TTC27
NC_056056.1	91240001	91260001	2.62404	0.229764	OL	TTC27
NC_056070.1	11605001	11625001	3.24278	0.333139	OL	TTC29
NC_056070.1	11610001	11630001	4.33179	0.386189	OL	TTC29
NC_056070.1	11615001	11635001	3.72399	0.366952	OL	TTC29
NC_056070.1	11620001	11640001	3.2122	0.365919	OL	TTC29
NC_056070.1	11655001	11675001	2.86826	0.286657	OL	TTC29
NC_056070.1	11660001	11680001	3.63366	0.307632	OL	TTC29
NC_056058.1	92420001	92440001	3.3067	0.244856	OL	TTC37
NC_056058.1	92425001	92445001	3.18654	0.24219	OL	TTC37
NC_056058.1	92430001	92450001	2.93081	0.23201	OL	TTC37
NC_056058.1	92470001	92490001	2.73228	0.277038	OL	TTC37
NC_056058.1	92475001	92495001	4.53714	0.343629	OL	TTC37
NC_056058.1	92480001	92500001	5.42741	0.390168	OL	TTC37
NC_056058.1	92485001	92505001	4.02138	0.361403	OL	TTC37
NC_056056.1	212685001	212705001	5.92684	0.246234	OL	TULP3
NC_056055.1	13000001	13020001	16.3337	0.294806	OL	TXNDC8
NC_056055.1	13005001	13025001	25.219	0.305611	OL	TXNDC8
NC_056055.1	13010001	13030001	27.6904	0.344874	OL	TXNDC8
NC_056055.1	13015001	13035001	27.7478	0.370031	OL	TXNDC8
NC_056055.1	13030001	13050001	5.71781	0.306529	OL	TXNDC8
NC_056055.1	13035001	13055001	4.30705	0.276138	OL	TXNDC8
NC_056059.1	22350001	22370001	3.79669	0.227425	OL	UBE2D3
NC_056059.1	22355001	22375001	2.93141	0.21267	OL	UBE2D3
NC_056079.1	41415001	41435001	2.52495	0.257899	OL	UBE2E1
NC_056062.1	50055001	50075001	3.13402	0.295993	OL	UBE2W
NC_056062.1	50060001	50080001	2.60674	0.29115	OL	UBE2W
NC_056062.1	50075001	50095001	2.46902	0.302189	OL	UBE2W
NC_056062.1	50090001	50110001	2.57264	0.238074	OL	UBE2W
NC_056062.1	50095001	50115001	2.72728	0.246451	OL	UBE2W
NC_056062.1	50100001	50120001	2.53692	0.243766	OL	UBE2W
NC_056062.1	50105001	50125001	3.63303	0.32087	OL	UBE2W
NC_056062.1	50110001	50130001	3.51219	0.292558	OL	UBE2W
NC_056062.1	50115001	50135001	2.65625	0.31	OL	UBE2W
NC_056065.1	42630001	42650001	3.47777	0.30969	OL	UBE4B
NC_056065.1	11400001	11420001	7.09706	0.253946	OL	UCHL5
NC_056065.1	11420001	11440001	19.9302	0.270307	OL	UCHL5
NC_056065.1	11425001	11445001	21.6744	0.255815	OL	UCHL5
NC_056065.1	11430001	11450001	18.75	0.241256	OL	UCHL5
NC_056064.1	55110001	55130001	2.60819	0.220992	OL	UNC13D;UNK;WBP2
NC_056064.1	55105001	55125001	2.85093	0.239373	OL	UNC13D;WBP2
NC_056077.1	1615001	1635001	2.83441	0.272627	OL	UNKL
NC_056077.1	1620001	1640001	2.36071	0.257954	OL	UNKL
NC_056065.1	18845001	18865001	8.72917	0.241436	OL	USH2A
NC_056065.1	18850001	18870001	3.82136	0.254076	OL	USH2A
NC_056067.1	10410001	10430001	3.39547	0.301686	OL	USP10
NC_056067.1	10415001	10435001	3.17391	0.322108	OL	USP10
NC_056067.1	10420001	10440001	3.15426	0.369643	OL	USP10
NC_056054.1	208180001	208200001	2.83799	0.264726	OL	USP13
NC_056054.1	208185001	208205001	2.87139	0.253072	OL	USP13

NC_056054.1	208190001	208210001	3.76755	0.241287	OL	USP13
NC_056054.1	208195001	208215001	6.9313	0.336077	OL	USP13
NC_056054.1	208200001	208220001	8.67741	0.337973	OL	USP13
NC_056054.1	208205001	208225001	6.33923	0.29336	OL	USP13
NC_056054.1	208210001	208230001	3.52518	0.285398	OL	USP13
NC_056072.1	50810001	50830001	2.87024	0.351757	OL	USP4
NC_056072.1	50815001	50835001	3.36635	0.381664	OL	USP4
NC_056072.1	50820001	50840001	3.05912	0.333935	OL	USP4
NC_056072.1	50825001	50845001	4.29167	0.310961	OL	USP4
NC_056072.1	50830001	50850001	4.30666	0.219888	OL	USP4
NC_056080.1	40370001	40390001	3.91025	0.288054	OL	USP9X
NC_056080.1	40375001	40395001	5.86547	0.337796	OL	USP9X
NC_056080.1	40380001	40400001	6.35788	0.342148	OL	USP9X
NC_056080.1	40385001	40405001	6.8902	0.34022	OL	USP9X
NC_056080.1	40390001	40410001	6.10824	0.344923	OL	USP9X
NC_056080.1	40395001	40415001	3.45606	0.296778	OL	USP9X
NC_056061.1	73340001	73360001	2.46748	0.408663	OL	UST
NC_056064.1	41345001	41365001	3.15018	0.251642	OL	V15
NC_056080.1	82150001	82170001	2.89763	0.274747	OL	VAMP7
NC_056057.1	6735001	6755001	2.59124	0.247843	OL	VWC2
NC_056057.1	6740001	6760001	2.97426	0.312919	OL	VWC2
NC_056075.1	40405001	40425001	15.8027	0.237413	OL	WDR11
NC_056075.1	40410001	40430001	10.3917	0.233671	OL	WDR11
NC_056075.1	40415001	40435001	7.9547	0.225403	OL	WDR11
NC_056071.1	64655001	64675001	4.62865	0.36979	OL	WDR20
NC_056071.1	64660001	64680001	2.8669	0.28842	OL	WDR20
NC_056065.1	26790001	26810001	2.53261	0.242739	OL	WDR26
NC_056065.1	26795001	26815001	2.57287	0.236388	OL	WDR26
NC_056076.1	56400001	56420001	3.18382	0.248903	OL	WDR7
NC_056076.1	56405001	56425001	4.91473	0.219516	OL	WDR7
NC_056060.1	54690001	54710001	2.76416	0.536719	OL	WDR72
NC_056060.1	54695001	54715001	2.77184	0.544484	OL	WDR72
NC_056056.1	213900001	213920001	9.93153	0.229289	OL	WNT5B
NC_056080.1	7985001	8005001	2.46193	0.238921	OL	WWC3
NC_056080.1	7990001	8010001	3.06493	0.232146	OL	WWC3
NC_056080.1	7995001	8015001	2.73109	0.286303	OL	WWC3
NC_056056.1	92300001	92320001	4.20426	0.322391	OL	XDH
NC_056056.1	92305001	92325001	3.20915	0.331497	OL	XDH
NC_056062.1	35715001	35735001	5.31788	0.265366	OL	XKR4
NC_056062.1	35720001	35740001	28.1637	0.329386	OL	XKR4
NC_056062.1	35735001	35755001	9.01007	0.317395	OL	XKR4
NC_056062.1	35740001	35760001	2.75355	0.325311	OL	XKR4
NC_056062.1	35840001	35860001	2.79401	0.25263	OL	XKR4
NC_056055.1	49895001	49915001	2.35251	0.241468	OL	XPA
NC_056068.1	6335001	6355001	3.64538	0.295025	OL	YAP1
NC_056076.1	36085001	36105001	2.42857	0.276738	OL	YES1
NC_056060.1	8270001	8290001	3.06296	0.374104	OL	ZBED3
NC_056060.1	8275001	8295001	9.7973	0.523797	OL	ZBED3
NC_056068.1	24330001	24350001	2.92771	0.2276	OL	ZBTB16
NC_056068.1	24395001	24415001	2.44291	0.217336	OL	ZBTB16
NC_056068.1	24400001	24420001	2.53939	0.252575	OL	ZBTB16
NC_056068.1	24405001	24425001	2.45068	0.231035	OL	ZBTB16
NC_056068.1	24410001	24430001	2.51888	0.222645	OL	ZBTB16
NC_056068.1	24445001	24465001	3.51453	0.249045	OL	ZBTB16
NC_056068.1	24450001	24470001	2.72727	0.242462	OL	ZBTB16
NC_056068.1	24455001	24475001	4.32866	0.23719	OL	ZBTB16
NC_056068.1	24460001	24480001	4.65274	0.216934	OL	ZBTB16
NC_056061.1	81755001	81775001	3.8	0.22483	OL	ZDHHC14
NC_056061.1	81760001	81780001	4.5018	0.251507	OL	ZDHHC14
NC_056061.1	81765001	81785001	4.9191	0.291722	OL	ZDHHC14
NC_056061.1	81770001	81790001	3.28662	0.288861	OL	ZDHHC14
NC_056061.1	81775001	81795001	2.64953	0.252795	OL	ZDHHC14
NC_056060.1	86495001	86515001	3.27298	0.234299	OL	ZDHHC22
NC_056067.1	39120001	39140001	2.45947	0.239106	OL	ZNF19;ZNF23
NC_056078.1	12445001	12465001	4.1108	0.217388	OL	ZNF248
NC_056055.1	130600001	130620001	3.12391	0.310512	OL	ZNF385B
NC_056066.1	33640001	33660001	3.40202	0.22346	OL	ZNF438
NC_056067.1	13235001	13255001	2.45962	0.24769	OL	ZNF469
NC_056077.1	37290001	37310001	3.24138	0.295048	OL	ZNF655
NC_056077.1	37295001	37315001	2.53598	0.231978	OL	ZNF655
NC_056067.1	1845001	1865001	2.68902	0.227462	OL	ZNRF1
NC_056067.1	1850001	1870001	2.82978	0.253439	OL	ZNRF1
NC_056067.1	1855001	1875001	3.13856	0.23185	OL	ZNRF1
NC_056067.1	1860001	1880001	3.57825	0.220519	OL	ZNRF1



NC_056067.1	1865001	1885001	3.33483	0.232351	OL	ZNRF1
NC_056067.1	1875001	1895001	3.16059	0.269839	OL	ZNRF1
NC_056067.1	1880001	1900001	2.64213	0.294535	OL	ZNRF1
NC_056057.1	67480001	67500001	6.72826	0.239523	OL	ZNRF2
NC_056057.1	67555001	67575001	2.33561	0.221382	OL	ZNRF2
NC_056057.1	67560001	67580001	2.59449	0.218734	OL	ZNRF2