Supplementary Table 1

Citations: Please see http://www.genenetwork.org/reference.html

Trait : Liver LOWESS Stnfd 01/06 Females : A_51_P290626

Database : UNC Agilent G4121A Liver LOWESS Stanford (Jan06) Females

Date : October 08, 2017

Time : 23:29 GMT

Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	nologen	Symbol	Description	Location (Chr: Mb)	Mean Exp	Max LRS	LRS Location (Chr:	Sample r	N Cases	ample p	Lit Cor	Tissue r	Tissue p(r
A_51_P290626	268756	6566	Gulo	gulonolactone (L-) oxidase	Chr14: 65.986993	2.49798	18.4	Chr2: 145.281646	1	40	0	1	1	1
A_51_P221886	230249	6056	Kiaa0368	proteasome-associated pr	Chr4: 58.811521	0.46641	14.8	Chr4: 82.616377	0.761856	40	1E-09	0.31	0	1
A_51_P331021	75516	18991	1700013G20R	RIKEN cDNA 1700013G2(	Chr12: 9.035909	0.61127	9.6	Chr11: 26.470844	-0.73211	40	1E-08	0	0	1
A_51_P279323	30795	1525	Fkbp3	FK506 binding protein 3	Chr12: 65.062464	-1.5051	16.4	Chr4: 82.616377	-0.72923	40	2E-08	0.374	-0.039437	0.84831
A_51_P209502	110213	2419	Tegt	testis enhanced gene tran	Chr15: 99.409565	0.74066	12.6	Chr11: 48.117381	0.724784	40	2E-08	0.575	0.2188866	0.28268
A_51_P140182	11669	55480	Aldh2	aldehyde dehydrogenase	Chr5: 121.567972	1.50451	11.3	Chr6: 127.438457	0.721015	40	3E-08	0.702	0.2996046	0.13703
A_51_P141535	18242	231	Oat	ornithine aminotransferase	Chr7: 132.558043	1.20493	20.7	Chr18: 15.249747	0.703776	40	1E-07	0.591	0.3878942	0.05022
A_51_P348985	67495	10594	2010200O16R	RIKEN cDNA 2010200O1(	Chr3: 108.557057	0.13878	14.3	Chr1: 25.575437	0.700481	40	1E-07	0	-0.020346	0.92141
A_51_P144783	12465	6287	Cct5	chaperonin subunit 5 (eps	Chr15: 31.590888	-0.3206	10.5	Chr4: 82.616377	-0.69604	40	2E-07	0.356	-0.239451	0.23874
A_51_P209518	14423	8469	Galnt1	UDP-N-acetyl-alpha-D-gal	Chr18: 24.282098	-0.1127	12.5	Chr18: 15.638698	0.686217	40	3E-07	0.522	-0.07107	0.73009
A_51_P290676	52036	115911	ppp6r3	protein phosphatase 6, reg	Chr19: 3.455550	0.39812	13.1	Chr19: 32.887053	0.68434	40	4E-07	0.354	0	1
A_51_P470228	223918	13138	BC008150	cDNA sequence BC00815	Chr15: 102.116540	-1.2459	12.1	Chr19: 32.887053	-0.6839	40	4E-07	0	0	1
A_51_P172811	66855	5701	Nulp1	nuclear localized protein 1	Chr8: 123.403770	-1.4357	11.9	Chr18: 12.550517	-0.68136	40	4E-07	0.343	0	1
A_51_P267063	223337	71100	AI313915	expressed sequence AI31	Chr15: 9.370448	0.137	14.8	Chr18: 15.249747	0.67825	40	5E-07	0.333	0	1
A_51_P423079	100066	115603	Cyp2j11-ps	cytochrome P450, family 2	Chr4: 96.294969	0.4839	15.4	Chr9: 51.713125	0.67566	40	6E-07	0	0	1
A_51_P210532	13110	128043	Cyp2j6	cytochrome P450, family 2	Chr4: 96.531632	0.52512	9.9	Chr19: 25.666449	0.674864	40	6E-07	0.468	0.1108763	0.58973
A_51_P382718	84092	3782	Usp8	ubiquitin specific protease	Chr2: 126.758627	-0.0219	10.2	Chr8: 7.701081	0.674413	40	6E-07	0.406	0.1521807	0.458
A_51_P269434	68365	48679	Rab14	Rab GTPase family memb	Chr2: 35.182381	-0.0933	15.7	Chr18: 6.947945	0.670081	40	8E-07	0.287	0.0858891	0.67654
A_51_P136792	67488	10845	1810009B06Ri	RIKEN cDNA 1810009B06	Chr15: 102.707048	0.08902	10.8	Chr5: 67.348022	0.669879	40	8E-07	0.239	0	1
A_51_P293706	66308	32633	Mplkip	M-phase-specific PLK1-int	Chr13: 17.697188	-0.0369	14.6	Chr5: 67.348022	-0.668	40	9E-07	0.347	0	1
A_51_P361951	66694	4378	Uqcrfs1	RIKEN cDNA 4430402G14	Chr13: 30.540494	-0.104	16.4	Chr15: 89.582866	-0.66607	40	1E-06	0.658	-0.064798	0.75315
A_51_P484918	216151	37996	Polrmt	RIKEN cDNA 1110018N15	Chr10: 79.736132	0.03693	9	Chr19: 28.403278	-0.66509	40	1E-06	0.322	0.3069377	0.12721
A_51_P235863	68744	45161	1110034O07R	RIKEN cDNA 1110034O0	Chr15: 102.215511	-0.9737	12.1	Chr4: 82.616377	-0.6644	40	1E-06	0	0	1
A_51_P112912	66922	6945	Rras2	related RAS viral (r-ras) or	Chr7: 114.046811	-0.4565	11.8	Chr19: 32.887053	-0.65848	40	2E-06	0.411	-0.283606	0.16031
A_51_P180213			--		Chr13: 4.238988	1.94788	10.3	Chr19: 25.666449	0.658435	40	2E-06	0	0	1
A_51_P192847	80860	32760	D11Lgp1e	DNA segment, Chr 11, Lot	Chr11: 100.766713	0.52054	13.4	Chr18: 6.947945	0.657317	40	2E-06	0.234	0	1
A_51_P168608	30156		Odz4	odd Oz/ten-m homolog 4 (	ChrUn: 1.000000	0.69605	16.3	Chr11: 50.383261	0.65405	40	2E-06	0	-0.054717	0.79064
A_51_P461884			3110020O18R	RIKEN cDNA 3110020O18	Chr1: 156.649490	-1.5574	11.5	Chr6: 92.011105	-0.6532	40	2E-06	0	0	1
A_51_P280158	319322	6678	Sf3b2	splicing factor 3b, subunit	Chr19: 5.274230	-0.252	12.2	Chr11: 117.047188	0.652053	40	2E-06	0.265	-0.076804	0.70921
A_51_P335089	78796	14632	4930449I23Rik	RIKEN cDNA 4930449I23	Chr5: 52.824552	-0.3002	8.4	Chr2: 88.346298	-0.64983	40	2E-06	0	0	1
A_51_P432924	100727	117389	AI788959	expressed sequence AI78	Chr5: 86.890528	1.15027	11	Chr6: 92.620492	0.647078	40	3E-06	0	0	1
A_51_P403277	52440	4395	Tax1bp1	DNA segment, Chr 6, ERA	Chr6: 52.757671	0.04205	15.1	Chr19: 29.981175	0.646197	40	3E-06	0.406	-0.285007	0.15817
A_51_P452382	20852	2373	Stat6	signal transducer and acti	Chr10: 127.660281	0.39724	16.2	Chr4: 86.525416	0.644479	40	3E-06	0.351	-0.051886	0.80125
A_51_P341011	71991	62	Ckn1	Cockayne syndrome 1 hor	Chr13: 108.194350	0.46715	13.5	Chr15: 63.320226	0.644399	40	3E-06	0.337	0	1
A_51_P224801	16621	68097	Klkb1	kallikrein B, plasma 1	Chr8: 45.272329	2.48937	11.3	ChrX: 42.452846	0.642193	40	4E-06	0.561	0.8787186	3.6E-09
A_51_P210082	50505		Ercc4	excision repair cross-comp	Chr16: 13.148656	-0.5494	11.2	Chr18: 15.638698	-0.64164	40	4E-06	0.385	-0.261591	0.19675
A_51_P476481	13110	128043	Cyp2j6	cytochrome P450, family 2	Chr4: 96.101997	0.58068	16.3	Chr19: 36.176569	0.640723	40	4E-06	0.468	0.1108763	0.58973
A_51_P324551	66822	41649	Fbxo25	F-box only protein 25	Chr8: 13.940359	-1.6781	14.7	Chr19: 32.887053	-0.63737	40	5E-06	0.414	-0.215524	0.29033
A_51_P145076	170737	41858	Zrfp1	zinc ring finger protein 1	Chr8: 111.623706	-1.4531	11.3	Chr11: 26.470844	-0.63734	40	5E-06	0.332	0	1
A_51_P407323	14067	104	F5	coagulation factor V	Chr1: 164.211747	2.98956	15.6	Chr4: 86.525416	0.63734	40	5E-06	0.612	0.7254319	2.7E-05
A_51_P343309	12764	7670	Cmas	cytidine monophospho-N-a	Chr6: 142.767901	0.13295	12.1	Chr18: 15.638698	0.636822	40	5E-06	0.457	-0.184923	0.36579
A_51_P179921	19289	3590	Punc	putative neuronal cell adh	Chr9: 65.185489	0.71832	12.6	Chr11: 50.383261	0.635799	40	5E-06	0.396	0.1453913	0.47853
A_51_P118712	13353	4152	Dgcr6	DiGeorge syndrome critica	Chr16: 18.071161	0.35434	20.4	Chr6: 129.610158	0.634966	40	5E-06	0.335	0.1709498	0.40373
A_51_P244545	72503	34730	Kiaa0100	KIAA0100 protein breast c	Chr11: 78.285560	0.32302	11.9	Chr9: 105.639522	0.632819	40	6E-06	0	0	1
A_51_P259214	106957	8199	Slc39a6	solute carrier family 39 (m	Chr18: 24.580060	-2.4599	20.2	Chr11: 48.117381	-0.63269	40	6E-06	0.659	-0.294166	0.14465
A_51_P347312	70155	11595	2210417C17R	RIKEN cDNA 2210417C17	Chr1: 23.370190	-0.233	15.7	Chr15: 89.582866	0.632414	40	6E-06	0	0	1
A_51_P434261	68137	86772	Kdelr1	KDEL (Lys-Asp-Glu-Leu) e	Chr7: 45.883445	0.68627	15.1	Chr19: 32.887053	0.630944	40	6E-06	0.335	0.0923052	0.65381
A_51_P367323	20399	32122	Sh2bpsm1	SH2-B PH domain contain	--	-0.3221	12.4	Chr4: 59.835329	-0.6309	40	6E-06	0.448	0	1
A_51_P336260	15293		--		Chr4: 145.689960	0.23727	9.1	Chr9: 123.963414	0.630674	40	6E-06	0	0	1
A_51_P242859	27383	121639	Akr1c12	aldo-keto reductase family	Chr13: 4.197829	2.0109	10.4	Chr19: 25.666449	0.629805	40	7E-06	0	0.4425161	0.02359
A_51_P369106	19334	10782	Rab22	RAB22, member RAS onc	Chr2: 173.688146	0.40239	11.4	Chr3: 32.577213	0.629445	40	7E-06	0.274	0	1
A_51_P363800	66522	9793	2810003H13R	RIKEN cDNA 2810003H13	Chr8: 70.650097	0.66929	12.9	Chr7: 19.697770	0.628383	40	7E-06	0.379	0	1
A_51_P108778	19671	3769	Rce1	Ras and a-factor-convertin	Chr19: 4.622582	-0.4409	16	Chr19: 32.034526	-0.62836	40	7E-06	0.478	-0.009263	0.96418
A_51_P521125	216618	41646	4931428D14R	RIKEN cDNA 4931428D14	Chr11: 29.230605	-0.6261	13.8	Chr2: 156.863893	0.627337	40	7E-06	0	0	1
A_51_P165822	15292		Hmgb1		Chr4: 147.379057	0.28666	8.7	Chr3: 33.914701	0.626463	40	8E-06	0	-0.370397	0.06251
A_51_P336790	66373	40833	Lsm5	LSM5 homolog, U6 small r	Chr6: 56.701226	-0.2406	11.3	Chr11: 26.470844	-0.62625	40	8E-06	0	-0.108895	0.59644
A_51_P281612	259086	64952	Olfr609		Chr7: 103.492607	1.304	13.8	Chr2: 32.614941	0.625851	40	8E-06	0	0.1446138	0.48091
A_51_P242343	83962	23529	Btbd1	BTB (POZ) domain contair	Chr7: 81.792115	-1.0418	14.5	Chr19: 25.666449	-0.6245	40	8E-06	0.392	-0.136603	0.50578
A_51_P404825	381045	18028	AI413631	Mus musculus cDNA clone	Chr16: 36.091979	0.93415	8.7	Chr9: 54.530068	-0.62294	40	9E-06	0	0	1
A_51_P513600	56205	37924	Ensa	endosulfine alpha	Chr3: 95.629158	-0.1721	10.1	Chr2: 145.281646	0.621896	40	9E-06	0.398	-0.362292	0.06894
A_51_P322396	105887	71100	AI746432	Mus musculus cDNA fis, c	Chr15: 9.321729	0.32649	12.4	Chr15: 90.928980	0.62173	40	1E-05	0.333	0	1
A_51_P294705	13026	3680	Pcyt1a	phosphate cytidylyltransfe	Chr16: 32.467182	0.8038	12.3	Chr4: 82.616377	0.619528	40	1E-05	0.591	0.1055712	0.60776
A_51_P169576	15296		--		Chr9: 72.209625	0.38929	9.8	Chr3: 33.914701	0.618907	40	1E-05	0	0	1
A_51_P141390	17222	7414	Anapc1	anaphase promoting comp	Chr2: 128.612761	0.2722	12.6	Chr18: 9.902166	-0.6182	40	1E-05	0.285	-0.167883	0.41234
A_51_P356052	225642	1580	Grp	gastrin releasing peptide	Chr18: 65.886513	-2.9355	14.9	Chr18: 16.414681	-0.61778	40	1E-05	0.433	-0.209106	0.30528
A_51_P227202	77381		C030014I23Rik	RIKEN cDNA C030014I23	Chr9: 44.478987	1.77795	8.5	Chr17: 23.185669	0.617263	40	1E-05	0	-0.349849	0.07977
A_51_P193980	15294		--		Chr4: 145.689853	0.39268	8.6	Chr6: 92.011105	0.616741	40	1E-05	0	0	1
A_51_P518893			--	Mus musculus adult male	Chr4: 43.985303	1.57344	12.2	Chr19: 54.544221	0.615922	40	1E-05	0	0	1
A_51_P193851	70052	3446	Prpf4	PRP4 pre-mRNA processi	Chr4: 62.423584	0.21298	17.7	Chr19: 32.887053	0.615501	40	1E-05	0	0.24169	0.23424
A_51_P129100	140740	5220	Sec63	SEC63 (S. cerevisiae)	Chr10: 42.823927	1.45805	10.7	Chr18: 46.275839	0.614857	40	1E-05	0.515	0.2218659	0.27602
A_51_P511949	73251	12741	Set7	SET domain-containing pr	Chr3: 51.515410	-2.8842	16.8	Chr18: 9.902166	-0.61481	40	1E-05	0.439	0	1
A_51_P104012	72309	9141	2310037P21Ri	RIKEN cDNA 2310037P21	Chr9: 123.259109	-3.1283	10.4	Chr18: 6.947945	-0.6145	40	1E-05	0.391	0	1
A_51_P182592	17308	1804	Mgat1	mannoside acetylglucosan	Chr11: 49.262698	0.76663	14.4	Chr11: 50.383261	0.613889	40	1E-05	0.534	0.1236263	0.54738
A_51_P355987	233904	52251	BC010250	cDNA sequence BC01025	Chr7: 127.800027	-0.402	16.2	Chr18: 76.870082	-0.61318	40	1E-05	0.467	0	1
A_51_P220682	67998	23585	Fam134c	family with sequence simil	Chr11: 101.096742	0.63044	14.4	Chr18: 15.638698	0.612886	40	1E-05	0.258	0	1
A_51_P122523	18141	5190	Nup50	RIKEN cDNA 1700030K07	Chr15: 84.941945	0.13098	19.4	Chr4: 82.616377	0.612692	40	1E-05	0.365	-0.060621	0.76862
A_51_P448987	51729		Wbp11	WW domain binding prote	Chr6: 136.813745	-0.5114	16.8	Chr11: 33.638733	-0.61264	40	1E-05	0	-0.216732	0.28757
A_51_P430952	19766	2820	Ripk1	receptor (TNFRSF)-intera	Chr13: 34.032621	0.53993	23.6	Chr4: 85.092715	0.612338	40	1E-05	0.389	-0.039915	0.84649
A_51_P488519	66307	9361	2610034N03R	RIKEN cDNA 2610034N03	Chr18: 58.677989	1.24217	8.5	Chr11: 35.687788	0.611816	40	1E-05	0.424	0	1
A_51_P422691			--		Chr2: 180.586158	-0.8857	15	Chr6: 90.358029	-0.61156	40	2E-05	0	0	1
A_51_P356512	67416	12125	Armcx2	RIKEN cDNA 3230401N03	ChrX: 134.804147	-2.5792	13.6	Chr19: 32.887053	-0.61145	40	2E-05	0.315	-0.080964	0.69419
A_51_P258381	214899	3419	Rbbp2	retinoblastoma binding prc	Chr6: 120.412309	0.0881	12.5	Chr2: 156.863893	0.610573	40	2E-05	0.35	0	1
A_51_P243693	214290	51941	Zcchc6	hypothetical protein MGC3	Chr13: 59.789508	0.81961	9.4	Chr18: 15.638698	0.610235	40	2E-05	0	0.2346136	0.24864
A_51_P283759	18033	2971	Nfkb1	nuclear factor of kappa ligl	Chr3: 135.584747	-0.8337	13.6	Chr19: 32.887053	-0.60984	40	2E-05	0.387	-0.210448	0.30211

A_51_P516456	11432	1217	Acp2	acid phosphatase 2, lysos	Chr2: 91.211129	0.817	19.8	Chr18: 11.084829	0.60945	40	2E-05	0.637	0.4544787	0.01967
A_51_P228632			Rap1a		Chr3: 105.728405	-0.6245	12.8	ChrX: 42.452846	-0.60915	40	2E-05	0	-0.300265	0.13612
A_51_P200571	232089	12978	C330008I15Ril	RIKEN cDNA C330008I15	Chr6: 72.565957	-0.2337	14.2	Chr5: 60.443821	-0.60889	40	2E-05	0.261	0	1
A_51_P359018	23939	2060	Mapk7	mitogen-activated protein	Chr11: 61.488813	-1.4914	16.1	Chr11: 48.117381	-0.60882	40	2E-05	0.524	0.1267359	0.53727
A_51_P257156	77006	11400	Ddrgk1	DDRGK domain-containing	Chr2: 130.662095	1.47268	11	Chr11: 50.383261	0.60879	40	2E-05	0.341	0	1
A_51_P360590	15291		--		Chr4: 147.379005	0.41154	11.7	Chr4: 86.525416	0.608684	40	2E-05	0	0	1
A_51_P177764	103142	74505	Rdh9	retinol dehydrogenase 9	Chr10: 127.792297	2.70539	9.8	Chr2: 145.281646	0.60814	40	2E-05	0.291	0.3958992	0.04528
A_51_P100856	14268	1533	Fn1	fibronectin 1	Chr1: 71.590848	2.95868	9.2	Chr11: 50.383261	0.607971	40	2E-05	0.381	0.3787259	0.0564
A_51_P264053	18701	31103	Pigf	phosphatidylinositol glycar	Chr17: 86.997287	-0.4397	11	Chr11: 50.383261	-0.60782	40	2E-05	0.566	-0.056709	0.78319
A_51_P138348	11764	21972	Ap1b1	adaptor protein complex A	Chr11: 5.042607	-0.3017	19.9	Chr19: 32.887053	-0.60756	40	2E-05	0.378	-0.0614	0.76573
A_51_P149818	69207	36164	2610019N13R	RIKEN cDNA 2610019N13	Chr3: 158.019312	0.00046	12.3	Chr11: 36.802950	0.60652	40	2E-05	0	0	1
A_51_P261001	17765	7207	9230112N11R	RIKEN cDNA 9230112N11	Chr5: 108.108905	-1.2111	9.6	Chr19: 36.176569	-0.60536	40	2E-05	0.302	0	1
A_51_P194765	68999	32238	Anapc10	RIKEN cDNA 1500026N15	Chr8: 79.775117	-0.7812	13.6	Chr19: 32.887053	-0.60474	40	2E-05	0.414	0.3772569	0.05744
A_51_P367578	207165	114397	Bptf	bromodomain PHD finger (	Chr11: 107.035026	-0.4005	11.7	Chr18: 12.550517	-0.60447	40	2E-05	0.323	-0.475852	0.014
A_51_P178575	67382	81801	Brd3	bromodomain containing 3	Chr2: 27.448213	0.16207	8.9	Chr11: 35.687788	0.603771	40	2E-05	0.539	-0.013436	0.94806
A_51_P460768	319822	35098	Smyd4	SET and MYND domain co	Chr11: 75.405641	-0.837	12.5	Chr11: 26.470844	-0.60356	40	2E-05	0	-0.277293	0.17023
A_51_P424518	73198		3110068G20R	RIKEN cDNA 3110068G20	Chr12: 70.011555	-1.7926	12.9	ChrX: 42.452846	-0.6034	40	2E-05	0	-0.216722	0.28759
A_51_P145230	15298		--		Chr4: 146.178137	0.32637	8	Chr4: 59.835329	0.602547	40	2E-05	0	0	1
A_51_P266419	66726		4921518A06Ri	RIKEN cDNA 4921518A06	Chr15: 8.291542	-0.3594	17.1	Chr2: 145.281646	0.602457	40	2E-05	0	-0.175225	0.3919
A_51_P380260	16573	55829	Kif5b	kinesin family member 5B	Chr18: 6.209173	-0.4947	7.2	Chr8: 115.152235	0.602337	40	2E-05	0.366	0.2099714	0.30323
A_51_P362879	107035	34526	Fbxo38	RIKEN cDNA 6030410I24	Chr18: 62.504209	-0.3341	16	Chr18: 6.947945	-0.60217	40	2E-05	0.356	-0.382363	0.05388
A_51_P368110	72357	11285	C12orf43	human chromosome 12 op	Chr5: 114.947714	-0.917	10.7	Chr11: 43.030624	0.602072	40	2E-05	0	0	1
A_51_P292057	81004	69382	Ira1	IRA1 protein	Chr3: 22.210401	0.13637	14.1	Chr1: 172.271794	0.602067	40	2E-05	0.399	0	1
A_51_P106235	26441	2083	Psma4	proteasome (prosome, ma	Chr9: 54.956846	0.37649	18.6	Chr9: 51.713125	0.60144	40	2E-05	0.518	0.2239609	0.27139
A_51_P286946	76429	41469	2310007H09R	phospholysine phosphohis	Chr7: 132.706322	1.77215	16.8	Chr18: 15.249747	0.600937	40	2E-05	0	0.3004224	0.1359
A_51_P266847	70294	27024	Rnf126	RIKEN cDNA 2610010O19	Chr10: 79.758788	0.05578	12.4	Chr18: 76.826488	-0.59931	40	3E-05	0.18	-0.038979	0.85005
A_51_P131261	69480	52649	1700029M07R	tetratricopeptide repeat do	Chr12: 81.664690	0.99963	14.4	Chr6: 92.011105	0.599103	40	3E-05	0.386	0	1
A_51_P124132	56448	68036	Cyp2d6	cytochrome P450, family 2	Chr15: 82.455509	1.96961	10.8	Chr11: 50.383261	0.599045	40	3E-05	0.487	0	1
A_51_P330717	20747	68354	Spop	speckle-type POZ protein	Chr11: 95.492157	0.11373	12.9	Chr11: 42.371999	0.598828	40	3E-05	0.432	-0.12337	0.54822
A_51_P447714	19656	84779	Rbmxrt	RNA binding motif protein,	Chr8: 78.505466	-0.8024	10.2	Chr3: 12.565616	-0.59882	40	3E-05	0.351	-0.070707	0.73142
A_51_P122170	54150	117981	Rdh7	retinol dehydrogenase 7	Chr10: 127.884206	2.17578	12.2	Chr19: 32.887053	0.598595	40	3E-05	0.396	0.8030728	7.9E-07
A_51_P106211	56752	55483	Aldh9a1	aldehyde dehydrogenase 9	Chr1: 167.364508	1.31546	13.6	Chr11: 48.117381	0.59755	40	3E-05	0.38	0.1786129	0.38266
A_51_P339444	56382	20900	Rab9	RAB9, member RAS oncog	ChrX: 105.482973	0.67885	15.1	Chr13: 45.901722	-0.59666	40	3E-05	0.25	-0.183863	0.36859
A_51_P318618	72074	49898	Harp	harmonin interacting ankyr	Chr7: 120.183189	1.7502	14.3	Chr4: 82.616377	0.596217	40	3E-05	0.247	0	1
A_51_P173381	27878	41793	D1Ertd251e	DNA segment, Chr 1, ERA	Chr1: 166.393521	-0.5951	25.9	Chr1: 163.384979	-0.59614	40	3E-05	0	0	1
A_51_P273833	66541	41747	1500034J20Ri	IMP1 inner mitochondrial r	Chr2: 105.965292	0.08259	10.6	Chr6: 92.011105	-0.59574	40	3E-05	0.235	0	1
A_51_P401176	380614	41059	9430087H23R	RIKEN cDNA 9430087H23	Chr3: 40.678942	1.64141	10.9	Chr11: 50.383261	0.5949	40	3E-05	0.178	0	1
A_51_P452207	17129	4313	Smad5	MAD homolog 5 (Drosophi	Chr13: 56.739211	0.18795	10.2	Chr2: 156.863893	0.594797	40	3E-05	0.383	-0.096047	0.64069
A_51_P307779	12727	68207	Clcn4-2	chloride channel 4-2	ChrUn: 1.000000	0.08607	15.4	ChrX: 42.452846	0.594763	40	3E-05	0.418	-0.019661	0.92405
A_51_P251325	30055	40846	Timm9	translocase of inner mitoch	Chr10: 80.900088	-0.1388	11.1	Chr11: 24.672748	0.594695	40	3E-05	0.302	0.3527146	0.07717
A_51_P443872	193116	4690	Slu7	step II splicing factor SLU7	Chr11: 43.447875	-0.6946	16.4	Chr11: 48.117381	-0.59329	40	3E-05	0.366	-0.17645	0.38854
A_51_P497560	228545	13302	Vps18	RIKEN cDNA 9930024E13	Chr2: 119.297810	0.09261	14.1	Chr18: 12.550517	0.593243	40	3E-05	0.306	0.0415612	0.84024
A_51_P157193	80837	56894	Rhoj	ras homolog gene family, r	Chr12: 75.401319	-1.6872	15.1	Chr2: 33.449965	-0.59249	40	3E-05	0.382	-0.173799	0.39582
A_51_P453856	93687	37546	Csnk1a1	casein kinase 1, alpha 1 (c	Chr18: 61.588163	-0.7843	12.7	Chr11: 24.672748	-0.59205	40	3E-05	0.476	-0.120055	0.5591
A_51_P275395	28199	11886	Wdr23	WD repeat domain 23	Chr14: 55.569858	1.13605	10.2	Chr18: 11.084829	0.591949	40	3E-05	0	0.1225172	0.55101
A_51_P239125	320422		9930020M10R	RIKEN cDNA 9930020M10	Chr9: 71.721626	0.49259	9.5	Chr18: 15.638698	0.590831	40	4E-05	0	0	1
A_51_P254912	853531		Rfc2	replication factor C (activa	Chr5: 134.597939	-0.02	10.7	Chr19: 29.981175	0.590046	40	4E-05	0	-0.037005	0.85757
A_51_P220893	68942	101438	1190006E07Ri	RIKEN cDNA 1190006E07	Chr16: 65.539207	-0.7426	11.8	Chr11: 24.672748	-0.59	40	4E-05	0.427	0	1
A_51_P352402	67429	12128	Cml66	chronic myelogenous leuk	Chr15: 44.375242	0.4712	10.3	Chr18: 3.516540	-0.58912	40	4E-05	0.438	0	1
A_51_P249909	16841	1730	Lect2	leukocyte cell-derived che	Chr13: 56.542589	2.9482	26.2	Chr2: 156.863893	0.589103	40	4E-05	0.681	0.4746268	0.01429
A_51_P189193	403050		Pard3	par-3 (partitioning defectiv	Chr8: 127.401507	0.91927	14.5	Chr4: 74.391572	0.588999	40	4E-05	0	0.4120178	0.03648
A_51_P393524	19826	40648	Rnps1	ribonucleic acid binding pr	Chr6: 7.981851	-0.907	19.6	Chr18: 6.947945	-0.58876	40	4E-05	0.352	-0.304939	0.12983
A_51_P406315	14764	3508	Gpr44	G protein-coupled recepto	Chr19: 10.940974	0.95307	20.6	Chr15: 93.009037	0.588453	40	4E-05	0.514	0.1546491	0.45065
A_51_P289872	217980	18195	Larp4b	La ribonucleoprotein doma	Chr13: 9.166433	0.56832	14	Chr4: 86.525416	0.587342	40	4E-05	0	-0.166737	0.41558
A_51_P436368	15528	20500	Hspe1	heat shock protein 1 (chap	Chr5: 25.391844	0.4572	7.5	Chr19: 23.946801	-0.58687	40	4E-05	0.585	0.0712695	0.72936
A_51_P264477	76523		Dnajc8	RIKEN cDNA 2010009J04	Chr12: 10.724048	-0.4241	14.2	Chr14: 32.951640	0.58654	40	4E-05	0	-0.419875	0.03272
A_51_P272175	94064	9543	Mrp127	39S ribosomal protein L27	Chr11: 94.659675	0.66107	19	Chr18: 76.826488	0.586139	40	4E-05	0	0	1
A_51_P156547	21415	7563	Tcf3	transcription factor 3	Chr6: 72.627228	-0.3113	13.5	Chr19: 36.176569	-0.58513	40	5E-05	0.395	-0.054846	0.79016
A_51_P476900	114604	56941	Prdm15	PR domain containing 15	Chr16: 97.791527	-0.2825	11.3	Chr7: 45.588280	-0.58232	40	5E-05	0.295	-0.207749	0.30849
A_51_P136324	64436	56863	Inpp5e	inositol polyphosphate-5-p	Chr2: 26.396781	-0.7692	15.7	Chr5: 67.348022	-0.58111	40	5E-05	0.361	-0.211881	0.29875
A_51_P118637	67302	9011	3110050K21Ri	RIKEN cDNA 3110050K21	Chr14: 75.327545	-0.3686	9.4	Chr11: 43.030624	0.58111	40	5E-05	0	0	1
A_51_P104418	63953	5215	Dusp10	dual specificity phosphata	Chr1: 184.074729	-0.6661	12.1	Chr19: 32.887053	-0.58101	40	5E-05	0.603	-0.106475	0.60467
A_51_P342259	66146	14449	1110007C24R	RIKEN cDNA 1110007C24	Chr4: 134.828019	0.60422	22.2	Chr4: 86.525416	0.580672	40	5E-05	0.348	0	1
A_51_P425352	319984	13034	Jph4	junctophilin 4	Chr14: 55.108305	0.59754	13.5	Chr6: 55.170672	0.579763	40	6E-05	0.339	-0.027539	0.89377
A_51_P127615	20492	31389	Slbp	stem-loop binding protein	Chr5: 143.099538	-0.5006	13	Chr18: 15.638698	-0.57937	40	6E-05	0.424	0.2190065	0.28241
A_51_P339232	20648	2331	Snta1	syntrophin, acidic 1	Chr2: 154.376415	0.04744	59.7	Chr2: 145.281646	0.578289	40	6E-05	0.373	0.0179047	0.93082
A_51_P316692	214951	2946	Rhbdl	rhomboid, veinlet-like 1 (D	Chr17: 25.834698	1.10244	13.2	Chr9: 54.530068	0.578214	40	6E-05	0.388	0	1
A_51_P459350	56431	21362	Dstn	destrin	Chr2: 143.942525	-0.4539	13.5	Chr2: 142.704064	0.577321	40	6E-05	0.587	-0.167388	0.41374
A_51_P498311	106074		--	Mus musculus transcribed	Chr15: 8.447763	0.72885	11.5	Chr19: 28.403278	0.576558	40	6E-05	0	0	1
A_51_P452625	56720	4132	Tdo2	tryptophan 2,3-dioxygenas	Chr3: 81.968233	1.78285	11.9	Chr5: 60.443821	0.576494	40	6E-05	0.578	0.8437626	6.1E-08
A_51_P108757	71665	20078	Fuca	fucosidase, alpha-L- 1, tis	Chr4: 135.933036	0.2511	14.2	Chr18: 15.638698	0.575937	40	7E-05	0.452	0	1
A_51_P282974	72039	10603	Mccc1	methylcrotonoyl-Coenzym	Chr3: 35.968424	0.6502	15.4	Chr9: 54.530068	0.575597	40	7E-05	0.431	-0.116586	0.57059
A_51_P159874	99470	26431	Magi3	membrane-associated gua	Chr3: 104.015725	0.50171	16.4	Chr6: 92.011105	0.575432	40	7E-05	0.277	-0.006547	0.97468
A_51_P478672	20917	2854	Suclg2	succinate-Coenzyme A lig	Chr6: 95.569651	1.0628	10.4	Chr4: 59.835329	0.575046	40	7E-05	0.33	0.3127319	0.11982
A_51_P332100	12421	7659	Rb1cc1	RB1-inducible coiled-coil 1	Chr2: 111.186943	0.30695	13.2	Chr10: 46.700763	0.57479	40	7E-05	0.533	-0.201056	0.32468
A_51_P174415	227298	11507	BC038286	hypothetical protein MGC4	Chr1: 75.147447	1.14907	13.4	Chr6: 139.857208	0.574632	40	7E-05	0.258	0.3249949	0.10524
A_51_P371255	53858	9654	ORF5	open reading frame 5	Chr16: 87.433659	0.28634	19.6	Chr18: 76.826488	0.574603	40	7E-05	0.34	0	1
A_51_P370960	71517	10659	9030624J02Ri	RIKEN cDNA 9030624J02	ChrUn: 1.000000	-0.006	12.1	Chr18: 15.249747	0.573432	40	7E-05	0	0.0232204	0.91035
A_51_P103706	13095	68086	Cyp2c29	cytochrome P450, family 2	Chr19: 39.329152	2.31956	13.4	Chr18: 12.550517	0.573307	40	7E-05	0.553	0.865073	1.2E-08
A_51_P307917	104885	16809	AI839735	expressed sequence AI83	Chr12: 112.500376	-1.2607	8.9	Chr10: 17.943550	-0.5724	40	7E-05	0	0	1
A_51_P521171	77039		Hif1an	RIKEN cDNA 2310046M24	Chr19: 44.575667	-0.0667	9.6	Chr19: 38.305196	0.572072	40	8E-05	0	-0.14778	0.47125
A_51_P141836	100763	8783	Ube3c	expressed sequence AI85	Chr5: 29.675884	-0.5858	11.3	Chr11: 48.117381	-0.57171	40	8E-05	0	0.0987904	0.63113
A_51_P430950	19684	37707	Rdx	radixin	Chr9: 52.088126	0.79763	15.9	Chr19: 35.618002	0.57132	40	8E-05	0.401	-0.022756	0.91214
A_51_P375187	67239	6404	Bxdc1	RIKEN cDNA 2810470K21	Chr10: 40.223684	-0.3599	13.1	Chr11: 48.117381	-0.57113	40	8E-05	0	-0.264843	0.19104
A_51_P452352	18114	90906	Nnp1	novel nuclear protein 1	ChrUn: 1.000000	0.02029	9.7	Chr2: 156.863893	0.569384	40	8E-05	0.266	0	1
A_51_P505879	73945	35370	4930431L18Ri	RIKEN cDNA 4930431L18	Chr8: 79.673656	2.29037	10.9	Chr18: 15.249747	0.569155	40	8E-05	0	0	1
A_51_P405766	21915	6285	Dtymk	deoxythymidylate kinase	Chr1: 93.800510	-0.6765	9	Chr2: 109.782694	-0.5691	40	8E-05	0.465	0.0576585	0.77965
A_51_P126626	218820	41888	Zfp503	RIKEN cDNA B830002A16	Chr14: 21.984037	-3.0025	12.7	Chr11: 33.638733	-0.56893	40	9E-05	0.404	-0.245206	0.2273
A_51_P507970	66653	10127	Brf2	BRF2, subunit of RNA poly	Chr8: 27.123853	0.37105	14.9	Chr16: 74.917702	0.568586	40	9E-05	0	0.0282197	0.89116
A_51_P210470	67681	8566	Mrpl18	mitochondrial ribosomal pr	Chr17: 12.911374	-0.3682	25.9	Chr18: 9.902166	-0.56831	40	9E-05	0.325	0.0349525	0.8654
A_51_P126563	18416	446	Otc	ornithine transcarbamylase	ChrX: 10.300314	2.57251	6.9	Chr17: 10.394118	0.568218	40	9E-05	0.571	0.7297362	2.3E-05
A_51_P225056	320664	75128	F730031O20R	RIKEN cDNA F730031O20	Chr2: 172.425862	0.27483	14	Chr3: 21.366751	0.568184	40	9E-05	0.344	-0.300144	0.13629

A_51_P502835	22214	103894	Ube2h	ubiquitin-conjugating enzy	Chr6: 30.211545	0.32985	14.9	Chr11: 48.117381	0.567768	40	9E-05	0.41	0.0737342	0.72037
A_51_P446623	171486	87079	Mic2l1	MIC2 (monoclonal Imperia	ChrX: 71.420913	0.13163	12.3	Chr4: 67.182024	0.5672	40	9E-05	0.497	0	1
A_51_P483301	320769	71226	4930414C22R	peroxiredoxin 6, related se	Chr2: 80.293597	1.08246	13	Chr13: 45.901722	0.566937	40	9E-05	0.532	0	1
A_51_P297517	68133	90880	5730591C18R	RIKEN cDNA 5730591C18	Chr8: 116.989123	1.55166	12.8	Chr19: 28.403278	0.566912	40	9E-05	0	0	1
A_51_P108149	105203	26435	Fam208b	family with sequence simil	Chr13: 3.566371	-0.3396	10.5	Chr18: 3.516540	-0.56643	40	9E-05	0.261	0	1
A_51_P405659	105594	104299	C330003B14R	RIKEN cDNA C330003B14	Chr14: 26.235354	1.05193	12.6	Chr18: 15.638698	0.566285	40	9E-05	0.341	0	1
A_51_P176071	234728	10144	BC025546	cDNA sequence BC02554	Chr8: 110.224113	-0.1877	9.6	Chr16: 85.087204	-0.56531	40	1E-04	0	-0.042911	0.83512
A_51_P510034	94215	55988	Ugt2a1	UDP glycosyltransferase 2	Chr5: 87.464099	1.933	11.2	Chr13: 46.752515	0.564992	40	1E-04	0.335	0.3032823	0.13204
A_51_P366207	17954	7436	Nap1l2	nucleosome assembly pro	ChrX: 103.184409	-4.45	10.8	Chr18: 16.414681	-0.56462	40	0.0001	0.342	0.0704467	0.73237
A_51_P470448	269255		AW060766	expressed sequence AW0	Chr2: 29.182334	-0.9615	18.5	Chr18: 3.516540	-0.56451	40	0.0001	0	0	1
A_51_P116447	74204	12544	Xpo6	exportin 6	Chr7: 126.104817	0.03193	11.5	ChrX: 42.452846	0.564504	40	0.0001	0.288	-0.026308	0.89849
A_51_P172801	76890	6272	0610016J10Ri	RIKEN cDNA 0610016J10	Chr3: 62.762450	0.27985	13.6	Chr13: 115.929261	-0.56387	40	0.0001	0.54	0	1
A_51_P185701	74006	6384	Dnm1l	dynamin 1-like (mitochond	Chr16: 16.312238	-0.9403	9.3	Chr6: 129.610158	-0.56368	40	0.0001	0.479	-0.113588	0.58061
A_51_P354572	77407	21361	9530019H02R	RIKEN cDNA 9530019H02	Chr5: 115.647091	-0.9155	9.7	ChrX: 42.452846	-0.56346	40	0.0001	0.287	0	1
A_51_P220799	242291	9852	1110001C20R	RIKEN cDNA 1110001C20	Chr4: 4.764522	-0.5137	14.7	Chr6: 92.011105	0.563454	40	0.0001	0.513	0	1
A_51_P343497	107508	121601	Eprs	glutamyl-prolyl-tRNA synth	Chr1: 185.369622	1.09317	21.3	Chr4: 86.525416	0.563273	40	0.0001	0.374	0.3484615	0.08106
A_51_P441086			D130005M13	hypothetical protein D130	ChrX: 41.833409	-0.1804	9.3	Chr2: 149.665875	0.562892	40	0.0001	0	0	1
A_51_P224342	66092	8667	Ghitm	growth hormone inducible	Chr14: 37.121297	-0.4711	10.7	Chr19: 32.887053	0.562558	40	0.0001	0.367	-0.065861	0.74923
A_51_P356562	97827	10066	C85658	expressed sequence C85	Chr12: 80.498036	-1.3289	12.5	Chr4: 88.951728	-0.56238	40	0.0001	0	0	1
A_51_P359549	240263	10606	Fem1c	fem-1 homolog c (C.elega	Chr18: 46.504937	-0.0552	9.4	Chr12: 28.659365	-0.5621	40	0.0001	0.462	-0.150451	0.46318
A_51_P394788	60595	55857	Actn4	actinin alpha 4	Chr7: 28.893270	-0.608	13.9	Chr5: 67.348022	-0.56206	40	0.0001	0.494	0.0878247	0.66965
A_51_P374014	107508	121601	Eprs	glutamyl-prolyl-tRNA synth	Chr1: 185.420238	0.57954	14	Chr19: 38.168495	0.562021	40	0.0001	0.374	0.3484615	0.08106
A_51_P504517	69444	10709	1700023H08R	RIKEN cDNA 1700023H08	Chr11: 103.631091	1.66305	19.9	Chr4: 86.525416	0.561852	40	0.0001	0	0	1
A_51_P414243	215494	32795	C85492	expressed sequence C854	Chr9: 121.981623	-1.2763	12.4	Chr5: 60.443821	-0.56125	40	0.0001	0.324	-0.055263	0.7886
A_51_P479832	74439		4933406P09Ri	RIKEN cDNA 4933406P09	ChrX: 94.727611	-0.2052	9.9	Chr11: 33.638733	-0.56112	40	0.0001	0	0	1
A_51_P463452	14081	37561	Acsl1	fatty acid Coenzyme A liga	Chr8: 46.534420	2.02349	13.8	Chr11: 48.117381	0.560894	40	0.0001	0.583	0.3086806	0.12495
A_51_P297552	216154	64602	Thrap5	thyroid hormone receptor a	Chr10: 79.895200	0.25954	11	Chr9: 123.963414	0.560889	40	0.0001	0.413	0	1
A_51_P387968	245857	32372	Ssh3	slingshot-like 3	Chr19: 4.261724	-0.5108	14.1	Chr4: 88.592399	-0.56044	40	0.0001	0.372	-0.082416	0.68897
A_51_P166682	18706	21249	Pik3ca	phosphatidylinositol 3-kina	Chr3: 32.456110	-0.0524	17.5	Chr4: 59.835329	0.560421	40	0.0001	0.457	-0.093375	0.65004
A_51_P371331	56217	9512	Mpp5	membrane protein, palmitc	Chr12: 78.837632	-0.6104	9.2	Chr7: 27.067846	0.56018	40	0.0001	0.28	-0.125108	0.54256
A_51_P296866	17690	55657	Msi1h	Musashi homolog 1(Droso	Chr5: 115.454021	-0.05	13	Chr2: 163.806751	0.559793	40	0.0001	0.476	0	1
A_51_P240684			--	Mus musculus clone MBI-	Chr14: 75.847974	1.31454	20.4	Chr2: 156.863893	0.559749	40	0.0001	0	0	1
A_51_P142465	19385	21600	Ranbp1	RAN binding protein 1	Chr16: 18.239882	-0.9375	10.6	Chr11: 33.638733	-0.55965	40	0.0001	0.436	-0.207918	0.30809
A_51_P496023	11758	3606	Prdx6	peroxiredoxin 6	Chr1: 161.241203	0.33815	13.3	Chr18: 16.414681	0.559498	40	0.0001	0.672	0.2638792	0.19272
A_51_P283698	13869	21084	Erbb4	v-erb-a erythroblastic leuk	Chr1: 68.043908	0.09576	11.6	Chr11: 50.383261	0.559142	40	0.0001	0.415	0.0016953	0.99344
A_51_P239737	18703	1984	Pigr	polymeric immunoglobulin	Chr1: 130.851464	3.01095	11.2	Chr6: 134.251232	0.559018	40	0.0001	0.556	0.3033737	0.13191
A_51_P446012	230936	17822	Phf13	PHD finger protein 13	Chr4: 151.989702	-0.3957	12.4	Chr14: 61.300551	-0.55892	40	0.0001	0.477	-0.033857	0.86958
A_51_P138876	227743	11473	Mapkap1	mitogen-activated protein	Chr2: 34.597439	0.6409	10.2	ChrX: 47.328644	0.558225	40	0.0001	0.344	-0.110447	0.59118
A_51_P225546	16846	193	Lep	leptin	Chr6: 29.070910	1.09207	13.4	Chr19: 54.544221	0.55785	40	0.0001	0.396	-0.07838	0.70351
A_51_P272005	56347	2781	Eif3s8	eukaryotic translation initia	Chr7: 126.547190	0.0992	13.5	ChrX: 42.452846	0.557463	40	0.0001	0.378	0	1
A_51_P352324	20502	39495	Slc16a2	solute carrier family 16 (m	ChrX: 103.697544	0.92766	11.9	Chr2: 163.806751	0.557458	40	0.0001	0.576	0.3462417	0.08315
A_51_P224023	223601	9599	0910001A06Ri	RIKEN cDNA 0910001A06	Chr15: 63.931140	-1.7689	11.7	ChrX: 42.452846	-0.55699	40	0.0001	0.241	-0.187771	0.35832
A_51_P251892	17149	1776	Magoh	mago-nashi homolog, prol	Chr4: 107.884969	-0.4049	12	Chr1: 162.025681	-0.55662	40	0.0001	0.411	-0.168307	0.41114
A_51_P261835	66139	11925	1110002H13R	RIKEN cDNA 1110002H13	Chr2: 27.062074	1.04312	13.8	Chr19: 23.946801	0.555512	40	0.0001	0.273	-0.220478	0.27911
A_51_P161225	212880	5430	Ddx46	DEAD (Asp-Glu-Ala-Asp) I	Chr13: 55.639789	0.33615	8	Chr3: 76.062576	0.5555	40	0.0001	0.169	-0.184149	0.36783
A_51_P213352	68833	7012	Pdcl3	RIKEN cDNA 1110061A19	Chr1: 38.996412	-0.8636	13.1	Chr19: 32.887053	-0.55543	40	0.0001	0.355	-0.131117	0.52318
A_51_P168171	66078	44182	0610027F08Ri	RIKEN cDNA 0610027F08	Chr17: 28.075351	-0.0539	15.8	Chr7: 19.697770	0.555017	40	0.0001	0	0	1
A_51_P511236	18708	7889	Pik3r1	phosphatidylinositol 3-kina	Chr13: 101.684451	0.44807	14.8	Chr1: 25.575437	0.55493	40	0.0001	0.373	-0.035553	0.8631
A_51_P157462	19733	3437	Rgn	regucalcin	ChrX: 20.561806	2.30288	11.3	Chr8: 126.582424	0.554568	40	0.0001	0.837	0.8657711	1.1E-08
A_51_P445006	211006	15031	D5Ertd135e	DNA segment, Chr 5, ERA	Chr5: 52.643502	0.87683	14.8	Chr2: 156.863893	0.554499	40	0.0001	0.501	0	1
A_51_P500862	109135	10377	Pepp2	phosphoinositol 3-phospha	Chr6: 140.597005	-0.5287	11.6	Chr6: 10.783839	-0.55408	40	0.0001	0.523	0	1
A_51_P284170	59050	5844	5730427N09R	RIKEN cDNA 5730427N09	ChrX: 136.328424	0.29398	12.6	Chr4: 86.525416	0.55401	40	0.0001	0.452	-0.212507	0.29729
A_51_P512172	52463	12735	Tet1	tet methylcytosine dioxyge	Chr10: 62.813294	1.13105	11.2	Chr4: 59.835329	0.553773	40	0.0001	0.469	-0.158077	0.44055
A_51_P265648	331547		C130073P14	hypothetical protein C130	ChrX: 151.314158	1.6938	10.2	Chr8: 123.700192	0.553671	40	0.0001	0	0	1
A_51_P423398	8517		Ikbkg	inhibitor of kappaB kinase	ChrUn: 1.000000	0.77734	12.6	Chr5: 67.348022	-0.55358	40	0.0001	0	0.5152893	0.00706
A_51_P384448	76742	12797	Snx27	sorting nexin family memb	Chr3: 94.500726	-0.8717	12.5	Chr5: 67.348022	-0.55343	40	0.0001	0.348	-0.078965	0.70139
A_51_P432563	81897	68126	Tlr9	toll-like receptor 9	Chr9: 106.226648	1.07017	10.2	Chr17: 6.039014	0.55323	40	0.0002	0.378	-0.041499	0.84048
A_51_P128285	70257	122218	C14orf2	6.8 kDa mitochondrial prot	Chr12: 111.961458	-0.4512	26.7	Chr12: 111.179643	-0.553	40	0.0002	0	-0.040078	0.84587
A_51_P384197	208643	110725	Eif4g1	eukaryotic translation initia	Chr16: 20.692378	0.93924	13.8	Chr11: 24.672748	0.552916	40	0.0002	0.382	-0.143637	0.48391
A_51_P268274	56030	32428	Rw1	RW1 protein	Chr1: 36.792383	-0.5033	12.1	Chr15: 63.320226	-0.55289	40	0.0002	0.481	0	1
A_51_P481210	237222	2677	Ofd1	oral-facial-digital syndrom	ChrX: 166.390972	-0.6264	17.2	Chr11: 35.140180	-0.55285	40	0.0002	0.402	-0.079218	0.70048
A_51_P421094	77987	4973	B630009I04Ril	RIKEN cDNA B630009I04	Chr10: 50.850857	0.42612	9.3	Chr1: 29.174580	-0.55263	40	0.0002	0	0	1
A_51_P159673	56440	99716	Snx1	sorting nexin 1	Chr9: 66.088181	-1.9761	16.4	Chr19: 32.887053	-0.55193	40	0.0002	0.42	-0.524654	0.00593
A_51_P325591	66421	11968	C1orf52	human chromosome 1 ope	Chr3: 145.944190	-0.977	9.4	Chr7: 27.067846	-0.55147	40	0.0002	0	-0.348959	0.0806
A_51_P386270	13105	86099	Cyp2d9	cytochrome P450, family 2	Chr15: 82.558016	1.79559	11.3	Chr11: 50.383261	0.551176	40	0.0002	0.455	0.6902344	9.5E-05
A_51_P157524	104394	1471	E2f4	E2F transcription factor 4	Chr8: 105.305256	-0.329	12.5	Chr3: 21.366751	-0.55117	40	0.0002	0.407	-0.130584	0.52488
A_51_P286996	56188	3691	Fxyd1	FXYD domain-containing i	ChrUn: 1.000000	1.80541	12.7	Chr4: 82.616377	0.550848	40	0.0002	0.414	0.19634	0.3364
A_51_P117426	140630	3517	Ube4a	ubiquitination factor E4A,	Chr9: 44.923289	0.79046	12.3	Chr13: 59.180537	0.550779	40	0.0002	0.149	0.1985083	0.33098
A_51_P496490	243983	75106	Hip14l	HIP14-related protein	Chr7: 48.827139	-0.9611	13.2	Chr18: 76.870082	-0.55058	40	0.0002	0.519	0	1
A_51_P374782	71889	56791	Epn3	RIKEN cDNA 2310022G12	Chr11: 94.491608	0.2878	14.7	Chr11: 50.383261	0.550481	40	0.0002	0.319	-0.224008	0.27129
A_51_P411599	26374	116678	Cop1	constitutive photomorphog	Chr1: 159.345008	-0.0857	18.5	Chr1: 166.393011	-0.55042	40	0.0002	0.515	0	1
A_51_P146320	20354	21282	Sema4d	sema domain, immunoglob	Chr13: 51.702533	0.17129	11.2	Chr6: 55.170672	0.550389	40	0.0002	0.574	-0.071368	0.729
A_51_P468824	216760	4333	2700079M14R	RIKEN cDNA 2700079M14	Chr11: 57.530363	0.10024	10	Chr2: 145.281646	0.55027	40	0.0002	0	0	1
A_51_P435317			Ap1s2		ChrX: 163.929494	-1.1516	16.8	ChrX: 42.452846	-0.55023	40	0.0002	0	-0.17677	0.38767
A_51_P178545	67200	12096	Ccdc77	coiled-coil domain contain	Chr6: 120.325243	0.10212	9.4	Chr11: 48.117381	0.55008	40	0.0002	0	-0.074147	0.71886
A_51_P499816	68371	41470	0610038K03Ri	RIKEN cDNA 0610038K03	Chr10: 63.077290	1.8898	9.3	Chr13: 112.636263	0.549971	40	0.0002	0.27	0	1
A_51_P173686	11977	35	Atp7a	ATPase, Cu++ transportin	ChrX: 106.127709	-0.8018	11.1	Chr18: 3.516540	-0.54963	40	0.0002	0.532	-0.326799	0.10321
A_51_P437000	12453	4979	Ccni	cyclin I	Chr6: 47.046270	-0.007	14.4	Chr7: 52.872771	0.549036	40	0.0002	0.392	-0.024376	0.90591
A_51_P518246	58249	3106	Fibp	fibroblast growth factor (ac	Chr19: 5.463800	0.37695	11.6	Chr19: 53.384788	0.548289	40	0.0002	0.331	0.0338138	0.86974
A_51_P517157	74122	11532	1200015A22Ri	transmembrane protein 43	Chr6: 91.488262	-1.6247	11.8	Chr11: 48.117381	-0.54799	40	0.0002	0.147	0	1
A_51_P501922	18844	56426	Plxna1	plexin A1	Chr6: 89.319197	0.35473	12.1	Chr2: 163.152538	0.547827	40	0.0002	0.279	0.8804504	3E-09
A_51_P349770	75911		4930580F03Rik		Chr17: 37.563529	1.11476	12.1	Chr6: 55.170672	0.547823	40	0.0002	0	0	1
A_51_P236397	53424	4374	Tsnax	translin-associated factor 2	Chr8: 125.033367	-0.8131	20.2	Chr19: 53.384788	0.547463	40	0.0002	0.47	-0.128452	0.53173
A_51_P152873	54645	41348	Uqcrc1	ubiquinol-cytochrome c re	ChrX: 7.795019	0.00144	7.3	Chr8: 114.615331	0.546977	40	0.0002	0.308	0.009815	0.96205
A_51_P361566	30853	3968	Mlf2	myeloid leukemia factor 2	Chr6: 124.936078	-0.7328	12.5	Chr4: 85.092715	-0.54689	40	0.0002	0.393	-0.035646	0.86275
A_51_P518470			2700016E08Ri	RIKEN cDNA 2700016E08	Chr3: 33.809918	-0.8651	17.1	Chr19: 36.176569	-0.54668	40	0.0002	0	0	1
A_51_P451837	93687	37546	5430427P18Ri	casein kinase 1, alpha 1 (c	Chr18: 61.590244	-0.5141	15.1	ChrX: 10.699900	-0.54613	40	0.0002	0.476	0	1
A_51_P156162	69354	75077	Slc38a4	solute carrier family 38, m	Chr15: 97.009943	2.57073	14.8	Chr4: 88.051976	0.54608	40	0.0002	0.478	0.7314157	2.2E-05
A_51_P414160			3200001F09Rik		Chr4: 134.898256	0.32449	9.7	Chr17: 10.394118	0.545848	40	0.0002	0	0	1
A_51_P310615	52713	32208	D10Ertd718e	DNA segment, Chr 10, ER	Chr10: 105.842541	0.61444	9.6	Chr14: 22.958777	0.54545	40	0.0002	0	0	1
A_51_P266256	23		Abcf1	ATP-binding cassette, sub	Chr17: 35.963614	0.1849	9.7	Chr4: 86.525416	0.545321	40	0.0002	0	-0.096368	0.63957
A_51_P345362	213498	11409	Arhgef11	Rho guanine nucleotide ex	Chr3: 87.737462	0.62724	12.5	Chr3: 86.127913	0.54481	40	0.0002	0.306	0.244828	0.22803

A_51_P488937	19159	3116	Pscd3	pleckstrin homology, Sec7	Chr5: 143.710143	-2.4339	10.4	Chr19: 38.305196	-0.54478	40	0.0002	0.304	-0.229505	0.25939
A_51_P293901	52585	41696	Dhrs1	dehydrogenase/reductase	Chr14: 55.740743	0.9309	10	Chr13: 46.752515	0.544755	40	0.0002	0	0.3155001	0.11641
A_51_P265685	68316	11475	0610008C08R	RIKEN cDNA 0610008C08	ChrX: 94.416950	-1.1377	11.1	Chr18: 16.414681	-0.54456	40	0.0002	0.542	0.0438673	0.8315
A_51_P146760	93891	69264	Pcdhb20	protocadherin beta 20	Chr18: 37.507260	-2.5827	9.9	Chr11: 18.582771	-0.54439	40	0.0002	0	0.0203902	0.92124
A_51_P454763	20529	1399	Slc31a1	solute carrier family 31, m	Chr4: 62.391077	1.31507	16.1	Chr4: 79.052159	0.544136	40	0.0002	0.613	0.3877818	0.0503
A_51_P494622	234875	11569	BC017545	cDNA sequence BC01754	Chr8: 124.671850	0.52407	11	Chr18: 15.638698	0.543835	40	0.0002	0	0	1
A_51_P505998	53313	69131	Atp2a3	ATPase, Ca++ transportin	Chr11: 72.989030	1.79534	9.5	Chr17: 21.690413	0.543821	40	0.0002	0.45	-0.4115	0.03674
A_51_P506328	13110	128043	Cyp2j6	cytochrome P450, family 2	Chr4: 96.525841	1.32039	12.9	Chr9: 64.615239	0.543641	40	0.0002	0.468	0.1108763	0.58973
A_51_P216725	75565	12607	1700023O11R	RIKEN cDNA 1700023O11	Chr7: 126.672702	0.22976	13.2	Chr1: 166.983006	-0.54358	40	0.0002	0.191	0	1
A_51_P246215	69920	4541	Polr2i	polymerase (RNA) II (DNA	Chr7: 30.233322	0.09876	11.3	Chr7: 45.588280	-0.54309	40	0.0002	0	0.3500255	0.07961
A_51_P229633	70470	41426	Rprd1b	regulation of nuclear pre-n	Chr2: 158.076288	-0.1229	75.3	Chr2: 157.995222	0.543051	40	0.0002	0.33	0	1
A_51_P309184	19301	32062	Pxmp2	peroxisomal membrane pr	Chr5: 110.274599	1.97915	16.9	Chr2: 109.782694	0.542951	40	0.0002	0.519	0.4467233	0.02215
A_51_P218236	17992	37629	Ndufa4	NADH dehydrogenase (ub	Chr6: 11.900463	-0.3458	12.4	Chr11: 43.030624	-0.54279	40	0.0002	0.434	0.1801648	0.37847
A_51_P319031	12866	36082	Cox7a2	cytochrome c oxidase, sub	Chr9: 79.755420	-0.714	8.5	Chr11: 50.383261	-0.54204	40	0.0002	0.534	-0.142968	0.48597
A_51_P394149	69562	135707	Cdk13	cyclin-dependent kinase 1	Chr13: 17.717554	-0.0565	16.5	Chr18: 9.902166	-0.54119	40	0.0002	0.277	0	1
A_51_P284565	69071	6443	1810014L12Ri	RIKEN cDNA 1810014L12	Chr11: 78.542202	1.75268	12.7	Chr4: 82.616377	0.5411	40	0.0002	0	0	1
A_51_P345758	30388		Psmb6	proteasome (prosome, ma	Chr1: 101.386262	1.28166	15.8	Chr18: 76.870082	0.540828	40	0.0002	0	0.0023249	0.99101
A_51_P129724	76608	18426	1700064K09Ri	RIKEN cDNA 1700064K09	Chr4: 117.003723	0.78634	12.2	Chr7: 27.067846	0.540816	40	0.0002	0.128	0	1
A_51_P450812	102339	7155	Cog4	component of oligomeric g	Chr8: 110.882026	0.53405	14.4	Chr13: 45.901722	0.540783	40	0.0002	0	0.2981145	0.13909
A_51_P101255	71743	11889	Coasy	Coenzyme A synthase	Chr11: 101.086297	0.73012	11.1	ChrX: 42.452846	0.540758	40	0.0002	0.429	0.4165858	0.03426
A_51_P371490	83762	12892	Otof	otoferlin	ChrUn: 1.000000	1.79912	18.5	Chr13: 45.901722	0.540668	40	0.0002	0.343	-0.174013	0.39523
A_51_P108190	65019		Rpl23	ribosomal protein L23	Chr11: 97.777603	0.06532	10.7	Chr11: 35.687788	-0.54052	40	0.0002	0.349	0.0165809	0.93592
A_51_P187726	54339		Tes3-ps	testis derived transcript 3,	Chr3: 35.892761	0.37366	11.5	Chr15: 90.928980	0.540448	40	0.0002	0.236	0.439182	0.02479
A_51_P277295	71881	41380	Apmap	adipocyte plasma membra	Chr2: 150.583472	-0.2085	16.3	Chr19: 36.176569	0.540344	40	0.0002	0.347	0	1
A_51_P384382	54394	9327	Crlf3	cytokine receptor-like fact	Chr11: 80.046590	-1.3581	12.7	ChrX: 42.452846	-0.53992	40	0.0002	0.378	-0.140157	0.49467
A_51_P223442	12520	20915	Cd81	CD 81 antigen	Chr7: 143.066737	0.40795	8.5	Chr19: 53.859502	0.539817	40	0.0002	0.509	0.179566	0.38008
A_51_P159042	14941	62159	Gzmd	granzyme D	Chr14: 56.130773	1.21334	10.2	Chr5: 54.832132	0.539683	40	0.0002	0.369	-0.059358	0.77332
A_51_P243333	14797	879	Aes	amino-terminal enhancer c	Chr10: 81.565725	1.00112	14.9	Chr11: 24.672748	0.53944	40	0.0002	0.449	0.1717487	0.4015
A_51_P474773	100986	17517	Akap9	A kinase (PRKA) anchor p	Chr5: 4.008342	0.19622	10.1	Chr12: 28.896298	0.539412	40	0.0002	0.337	-0.043649	0.83233
A_51_P363630	20643	37729	Snrpe	small nuclear ribonucleopr	Chr1: 133.603967	-0.6143	8.6	Chr9: 48.209326	-0.53919	40	0.0002	0.416	0.0237437	0.90834
A_51_P505169	60364	32350	Donson	downstream neighbor of S	Chr16: 91.679481	-1.1944	15.6	ChrX: 42.452846	-0.53878	40	0.0002	0.244	-0.080559	0.69564
A_51_P405013	102493		9630007J19Ri	RIKEN cDNA 9630007J19	Chr9: 75.223599	-5.109	8.1	Chr4: 74.391572	-0.53869	40	0.0002	0	0	1
A_51_P476850	72775	11066	2810451D06R	RIKEN cDNA 2810451D06	Chr17: 28.326476	-0.1721	11.6	Chr19: 32.887053	-0.53834	40	0.0003	0.215	0	1
A_51_P138238	258915	17435	NM_146913.1		Chr7: 6.501878	1.78271	15.5	Chr19: 28.403278	0.538196	40	0.0003	0	0	1
A_51_P167048	50785	75051	Hs6st1	heparan sulfate 6-O-sulfot	Chr1: 36.105821	1.14524	10.6	Chr1: 29.174580	0.538187	40	0.0003	0.372	0.3102831	0.12291
A_51_P384469	56403	4648	Nsap1l	NS1-associated protein 1-	Chr9: 88.455855	-0.621	12.2	Chr11: 26.470844	-0.53793	40	0.0003	0.378	0	1
A_51_P211732	19255	7497	Ptpn2	protein tyrosine phosphata	Chr18: 67.665629	-0.1037	9.1	Chr6: 92.620492	-0.53782	40	0.0003	0.553	0.1542866	0.45172
A_51_P160662	66142	1406	Cox7b	cytochrome c oxidase sub	ChrX: 106.021747	-0.3368	11	Chr15: 87.476581	-0.53771	40	0.0003	0	-0.097592	0.6353
A_51_P156833	59025	3780	Usp14	ubiquitin specific protease	Chr18: 10.005673	0.34217	8.1	Chr5: 77.918337	0.537565	40	0.0003	0.549	-0.38247	0.05381
A_51_P110249	11848	1257	Rhoa	ras homolog gene family,	Chr9: 108.336829	-0.7643	12.2	Chr19: 29.981175	0.537562	40	0.0003	0.365	-0.155035	0.44951
A_51_P410650	224897	16385	Dpp9	RIKEN cDNA 6430584G11	Chr17: 56.186715	0.17044	12.2	Chr13: 112.636263	-0.53701	40	0.0003	0.596	0.099275	0.62945
A_51_P462798	71918	66746	Zcchc24	zinc finger CCHC domain-	Chr14: 25.712187	1.36822	13.9	Chr1: 189.806052	0.536644	40	0.0003	0	0	1
A_51_P430821	71228	3486	Dlg5	discs, large homolog 5	Chr14: 24.133997	-1.4092	11.2	Chr19: 29.981175	-0.53656	40	0.0003	0.292	-0.053449	0.79539
A_51_P111212	67604	41080	1110007L15Ri	RIKEN cDNA 1110007L15	Chr5: 139.269925	-1.0212	9.8	Chr2: 36.101675	-0.53612	40	0.0003	0	-0.156246	0.44593
A_51_P242356	67726	10270	1810073G14R	RIKEN cDNA 9030624B09	Chr11: 57.483095	0.40246	10.3	Chr19: 32.887053	0.535967	40	0.0003	0	0.0056489	0.97815
A_51_P402583	14756	1152	Gpld1	glycosylphosphatidylinosit	Chr13: 24.990513	2.60717	12.6	Chr9: 53.788563	0.535628	40	0.0003	0.582	-0.33099	0.0986
A_51_P361491	18986	37658	Pou2f1	POU domain, class 2, tran	Chr1: 165.875488	-1.0564	18	Chr1: 163.384979	-0.53553	40	0.0003	0.464	-0.215553	0.29026
A_51_P283876	68021	55812	Bphl	RIKEN cDNA 2010012D11	Chr13: 34.073804	0.436	14.3	Chr9: 53.788563	0.535422	40	0.0003	0	0.4330711	0.02711
A_51_P119901	214685		D930017K21	hypothetical protein D930	Chr15: 81.682400	2.35898	18.3	Chr6: 134.251232	0.535205	40	0.0003	0.334	0	1
A_51_P283456	13106	68089	Cyp2e1	cytochrome P450, family 2	Chr7: 140.773686	1.79898	10.3	Chr18: 76.870082	0.535176	40	0.0003	0.556	0.4333005	0.02702
A_51_P325343	26416	31777	Mapk14	mitogen activated protein k	Chr17: 28.748070	0.38385	18.3	Chr15: 89.582866	0.535144	40	0.0003	0.39	-0.000467	0.99819
A_51_P484254	110821	236	Pcca	propionyl-Coenzyme A car	Chr14: 122.876763	0.78627	12.2	ChrX: 42.452846	0.535121	40	0.0003	0.623	0.2815335	0.16352
A_51_P136820	19156	37680	Psap	prosaposin (sulfated glyco	Chr10: 60.301744	-0.2106	14	Chr11: 33.638733	0.535118	40	0.0003	0.521	-0.180438	0.37773
A_51_P407406	17274	100934	Mel	cell line NK14 derived tran	Chr8: 72.176333	0.86017	20.4	Chr6: 92.011105	0.535045	40	0.0003	0.388	0	1
A_51_P403636	17131	4314	Smad7	MAD homolog 7 (Drosophi	Chr18: 75.395717	-0.5466	8.8	Chr1: 39.521926	-0.53504	40	0.0003	0.512	0.3557733	0.07446
A_51_P331886	320143		A130095G14R	RIKEN cDNA A130095G14	Chr19: 25.157118	-1.3239	13.1	Chr16: 74.917702	0.535035	40	0.0003	0	0	1
A_51_P405565	17688	149	Msh6	mutS homolog 6 (E. coli)	Chr17: 87.990803	-0.7027	13.1	Chr19: 32.887053	-0.53502	40	0.0003	0.323	-0.116019	0.57248
A_51_P416439	64429		Zdhhc6	zinc finger, DHHC domain	Chr19: 55.298653	1.07829	11	Chr15: 90.928980	0.534986	40	0.0003	0	0.5583576	0.00303
A_51_P465327	320727	48430	Ipo8	importin 8	Chr6: 148.818073	0.53983	13.8	Chr2: 149.665875	0.534708	40	0.0003	0.392	0.4622098	0.01744
A_51_P384629	13033	55616	Ctsd	cathepsin D	Chr7: 142.376057	-0.2821	11.6	Chr19: 32.887053	0.53463	40	0.0003	0.515	-0.164369	0.42233
A_51_P179809	5332		Plcb4	phospholipase C, beta 4	Chr2: 136.014460	-2.6816	11.5	Chr18: 56.459031	-0.53452	40	0.0003	0	-0.050941	0.8048
A_51_P395864	77465		C030027H14R	RIKEN cDNA C030027H14	Chr10: 121.781030	-2.4276	14.3	Chr18: 3.516540	-0.53451	40	0.0003	0	-0.191544	0.34857
A_51_P270741	20972	3456	Syngr1	synaptogyrin 1	Chr15: 80.113351	-2.176	15.9	Chr11: 33.638733	-0.53423	40	0.0003	0.421	-0.187909	0.35796
A_51_P426919	14910		Gt(ROSA)26Se	gene trap ROSA 26, Philip	Chr6: 113.071060	-0.4981	20.2	Chr6: 92.011105	-0.53418	40	0.0003	0.316	0.5747711	0.00213
A_51_P140347	240215	23732	Slc4a9	RIKEN cDNA D630024F24	Chr18: 36.539714	1.90237	12.1	Chr11: 50.383261	0.534142	40	0.0003	0.317	-0.02223	0.91416
A_51_P359272	11658	1229	Alcam	activated leukocyte cell ad	Chr16: 52.268795	0.05563	7.8	Chr9: 123.963414	0.534057	40	0.0003	0.523	0.0646824	0.75358
A_51_P272584	69190	69237	Dym	dymeclin (osteochondrody	Chr18: 75.199159	0.62824	12.5	Chr16: 17.663362	0.533788	40	0.0003	0.448	-0.103655	0.61433
A_51_P452651	57261	84762	Brd4	bromodomain containing 4	Chr17: 32.197138	0.32698	15.5	Chr6: 92.620492	0.533472	40	0.0003	0.528	-0.009477	0.96335
A_51_P159896	13418	7293	Dnajc1	DnaJ (Hsp40) homolog, su	Chr2: 18.217280	0.30476	10	Chr18: 15.638698	0.533438	40	0.0003	0.339	0.0726277	0.7244
A_51_P484758	66294	11042	Fam3a	family with sequence simil	ChrX: 74.384737	-0.0604	13	Chr11: 36.802950	-0.53318	40	0.0003	0.396	0	1
A_51_P270339	83490	12848	1810044J04Ri	RIKEN cDNA 1810044J04	Chr19: 41.273585	0.55159	17.8	Chr19: 40.583018	0.53308	40	0.0003	0.397	0	1
A_51_P486479	19345	55533	Rab5c	RAB5C, member RAS onc	Chr11: 100.715385	0.29417	10	Chr5: 67.348022	0.532929	40	0.0003	0.357	-0.145514	0.47815
A_51_P369185	73722		Sprrl2	small proline rich-like 2	Chr3: 92.668670	-0.3814	10.8	Chr16: 85.087204	0.532772	40	0.0003	0	0	1
A_51_P335306	19042	56428	Ppm1a	protein phosphatase, Mg2	Chr12: 72.792778	0.66127	12.9	Chr4: 67.182024	0.532772	40	0.0003	0.506	0.0188506	0.92717
A_51_P483511			Dock8	RIKEN cDNA 1200017A24	Chr19: 25.201499	-0.002	35.7	Chr19: 23.946801	0.53259	40	0.0003	0	-0.03464	0.86659
A_51_P264748	99349	41704	Dnajc24	DnaJ heat shock protein fa	Chr2: 105.980982	-0.0617	14.7	Chr1: 162.025681	-0.53238	40	0.0003	0.419	0	1
A_51_P309889	69683	18036	Emc10	ER membrane protein com	Chr7: 44.490099	-0.1536	9.6	Chr11: 24.672748	-0.53237	40	0.0003	0	0	1
A_51_P327778	18637	7887	Pfdn2	prefoldin 2	Chr1: 171.356590	-0.0501	18.6	Chr1: 171.051732	0.532193	40	0.0003	0.225	0.159339	0.43686
A_51_P390496	99138	32463	Stard7	START domain containing	Chr2: 127.298544	0.47356	15.2	Chr6: 138.436477	0.532071	40	0.0003	0.33	0.1233696	0.54822
A_51_P359861	20519	22630	Slc22a3	solute carrier family 22 (or	Chr17: 12.420356	0.18071	12.8	Chr18: 15.249747	0.531975	40	0.0003	0.508	-0.161595	0.43031
A_51_P391328	78938	12713	Fbxo34	F-box only protein 34	Chr14: 47.531441	0.53117	15.5	Chr19: 32.887053	0.53191	40	0.0003	0	0.0790531	0.70107
A_51_P415806	69136	84597	2200001D17R	RIKEN cDNA 2200001D17	Chr4: 93.334165	-0.2146	12.6	Chr11: 33.638733	-0.53181	40	0.0003	0.346	0	1
A_51_P287026	56372	8606	Smacp	small acidic protein	Chr7: 116.105142	-0.6554	11.2	Chr11: 24.672748	-0.53178	40	0.0003	0	0	1
A_51_P196895	71955	8849	2400003C14R	RIKEN cDNA 2400003C14	Chr8: 109.671858	-0.2003	13.5	Chr19: 38.305196	0.531784	40	0.0003	0.462	0.1778342	0.38477
A_51_P165914	228491	82354	6430601A21Ri	RIKEN cDNA 6430601A21	Chr2: 114.193514	-0.677	8.5	Chr6: 92.011105	-0.53162	40	0.0003	0	0	1
A_51_P219312	22138	26418	2310074I15Rik	RIKEN cDNA 2310074I15	Chr2: 76.914098	0.6461	11.8	Chr3: 33.914701	0.5316	40	0.0003	0.41	0	1
A_51_P408460	71490		8430415N23R	RIKEN cDNA 8430415N23	Chr1: 139.452876	0.06515	10.8	Chr11: 50.383261	-0.53092	40	0.0003	0	0.0374239	0.85597
A_51_P504037	67155	2308	Smarca2	SWI/SNF related, matrix a	Chr19: 26.654368	0.37883	11.7	Chr2: 145.281646	0.530627	40	0.0003	0.506	0.1484879	0.46911
A_51_P289836	63959	37985	Slc29a1	solute carrier family 29 (nu	Chr17: 45.585419	2.10171	14.3	Chr6: 87.149766	0.530349	40	0.0003	0.635	0.4297355	0.02845
A_51_P483938	13401	22559	Dmwd	dystrophia myotonica-cont	Chr7: 19.082305	0.40239	22.6	Chr7: 17.222805	0.530023	40	0.0003	0.524	0.1211847	0.55538
A_51_P509760	54130	21173	Actr1a	ARP1 actin-related protein	Chr19: 46.376897	-0.4756	10.3	Chr12: 113.258515	0.529836	40	0.0003	0.466	-0.376827	0.05775
A_51_P177194	216453	74505	Rdhs	retinol dehydrogenase sim	Chr10: 127.861041	1.16859	18	Chr6: 92.620492	0.529775	40	0.0003	0.349	0.2499234	0.21819

A_51_P113430	72565	74297	Uaca	uveal autoantigen with coi	Chr9: 60.874030	-0.3674	12.8	Chr7: 27.067846	0.529441	40	0.0003	0.541	-0.15165	0.45959
A_51_P358872	244667	10257	Disc1	disrupted in schizophrenia	Chr8: 125.155072	1.97515	13.7	Chr17: 21.690413	0.529262	40	0.0003	0.511	-0.018579	0.92822
A_51_P146505	76295	32919	Atp11b	ATPase, Class VI, type 11	Chr3: 35.855826	-0.4166	12.9	Chr4: 82.616377	0.529178	40	0.0003	0.297	-0.274511	0.17474
A_51_P166552	14945	20485	Gzmk	granzyme K	Chr13: 113.180566	0.82866	11.4	Chr3: 128.292533	0.528799	40	0.0003	0.505	0.0723985	0.72524
A_51_P251308	30050	8131	Fbxw2	F-box and WD-40 domain	Chr2: 34.807371	0.14337	13.1	Chr19: 53.859502	0.528627	40	0.0003	0.252	-0.152298	0.45765
A_51_P394715	75458	9663	1700001C14R	RIKEN cDNA 1700001C14	Chr8: 104.263308	-1.3038	17.1	Chr15: 90.753374	-0.52858	40	0.0003	0.542	0	1
A_51_P435333	69654	4667	2310042E05Ri	dynactin 2 (p50)	Chr10: 127.281399	0.50666	13.5	Chr11: 24.672748	0.5284	40	0.0003	0.297	0	1
A_51_P404300	66272	9520	1810020G14R	RIKEN cDNA 1810020G14	Chr12: 81.472146	1.1742	11.4	Chr18: 56.459031	-0.52839	40	0.0003	0	0.2591257	0.20115
A_51_P464539	208177	17100	Phldb2	RIKEN cDNA C820004H04	Chr16: 45.758139	0.09356	11.7	Chr2: 145.281646	0.528315	40	0.0003	0.178	0.2060654	0.31252
A_51_P471498	71999	12433	Fbxo22	RIKEN cDNA 0610033L19	Chr9: 55.224352	0.07061	16.5	Chr4: 82.616377	-0.52822	40	0.0004	0.242	-0.043539	0.83274
A_51_P105322	76497	32520	Ppp1r11	protein phosphatase 1, reg	Chr17: 36.949292	0.40337	12	Chr8: 126.582424	0.528142	40	0.0004	0.428	-0.058791	0.77543
A_51_P119986	16558	23472	8430434E15Ri	RIKEN cDNA 8430434E15	Chr2: 142.618977	-0.6248	40.1	Chr2: 145.281646	-0.528	40	0.0004	0.412	0	1
A_51_P480928	218441	8826	Zfyve16	RIKEN cDNA B130024H06	Chr13: 92.488047	-0.9977	10.3	Chr11: 33.638733	-0.52766	40	0.0004	0	-0.515592	0.00702
A_51_P324273	320808	18564	Dcaf5	DDB1 and CUL4 associate	Chr12: 80.337360	0.58498	11.4	Chr11: 48.117381	0.527584	40	0.0004	0	0	1
A_51_P193475	320220		C130096N06R	RIKEN cDNA C130096N06	Chr11: 29.463959	-2.9573	9.6	Chr18: 15.638698	-0.52747	40	0.0004	0	0	1
A_51_P387362	67891	748	Rpl4	RIKEN cDNA 2010004J23	Chr9: 64.178495	0.31073	12.8	Chr11: 48.117381	-0.5273	40	0.0004	0.45	-0.012259	0.95261
A_51_P179644	338351	14744	B230333C21R	RIKEN cDNA B230333C21	ChrX: 36.624207	0.25885	11.8	Chr7: 83.037976	0.527292	40	0.0004	0.345	0	1
A_51_P103837	170574	15607	Sp7	Sp7 transcription factor	Chr15: 102.356705	-0.063	10.5	Chr11: 48.117381	0.526936	40	0.0004	0.522	-0.078877	0.70171
A_51_P143805	66079	11917	0610027O18R	RIKEN cDNA 0610027O18	Chr9: 123.023213	-0.1103	13.4	Chr18: 15.249747	0.526859	40	0.0004	0	0	1
A_51_P354925	17768	21321	Mthfd2	methylenetetrahydrofolate	Chr6: 83.305711	-2.0332	13.6	Chr6: 134.251232	-0.52683	40	0.0004	0.581	-0.309242	0.12423
A_51_P475138	99439	68136	Duox2	dual oxidase 2	Chr2: 122.347755	0.44534	18.6	Chr15: 90.753374	0.526818	40	0.0004	0.557	-0.12213	0.55228
A_51_P314521	68936		Fam165b	family with sequence simil	Chr16: 92.312931	-0.2655	9.5	Chr1: 38.022242	-0.52633	40	0.0004	0.308	0	1
A_51_P464158	66309	11944	2810021O14R	RIKEN cDNA 2810021O14	Chr5: 38.269455	-0.7631	12.5	Chr15: 102.360421	-0.52605	40	0.0004	0	0	1
A_51_P470724	67204	2904	Eif2s2	eukaryotic translation initia	Chr2: 154.871417	0.55549	8.8	Chr9: 80.143684	-0.526	40	0.0004	0.469	0.0893012	0.66442
A_51_P192344	23808	3436	Ash2l	ash2 (absent, small, or ho	Chr8: 25.816880	-0.6122	9.6	Chr4: 79.052159	-0.52589	40	0.0004	0.313	-0.181218	0.37564
A_51_P400784	15382	88614	Hnrnpa1	heterogeneous nuclear rib	Chr6: 6.350683	-1.8977	11.9	Chr13: 95.456521	-0.52584	40	0.0004	0.511	-0.374955	0.05911
A_51_P504546	107747	122031	Fthfd	formyltetrahydrofolate deh	Chr6: 90.598341	2.29102	26.2	Chr9: 54.530068	0.525679	40	0.0004	0.643	0.6200694	0.00073
A_51_P211573	99512	8984	1810073M12R	RIKEN cDNA 1810073M12	Chr3: 108.645649	-3.541	12.8	Chr5: 63.430269	-0.52558	40	0.0004	0.293	0	1
A_51_P521128	56406	40920	Ncoa6	nuclear receptor coactivat	Chr2: 155.390789	-0.4923	16.8	Chr11: 24.672748	-0.52515	40	0.0004	0.48	0.0771405	0.70799
A_51_P335710	102247	32425	AU041707	expressed sequence AU04	Chr8: 23.181773	1.053	11.5	Chr4: 82.616377	0.52481	40	0.0004	0.56	0	1
A_51_P238383	56375	37848	B4galt4	UDP-Gal:betaGlcNAc beta	Chr16: 38.768665	-1.3606	13.6	Chr18: 49.031661	-0.52453	40	0.0004	0.317	-0.361035	0.06998
A_51_P476509	245007	19529	A930014K01R	RIKEN cDNA A930014K01	Chr9: 96.686411	0.15463	9.1	Chr2: 156.863893	0.524386	40	0.0004	0.436	0	1
A_51_P222453	66039		D14Ertd449e	DNA segment, Chr 14, ER	Chr14: 26.203836	1.95476	17	Chr14: 31.018950	0.524309	40	0.0004	0	0.1195623	0.56073
A_51_P227777	21974	68155	Top2b	topoisomerase (DNA) II be	Chr14: 16.430643	-1.025	14.4	Chr11: 24.672748	-0.52424	40	0.0004	0.53	-0.415181	0.03493
A_51_P414168	19823	84476	Rnf7	ring finger protein 7 (sensi	Chr9: 96.471445	-0.6864	8.9	Chr17: 40.571109	-0.52413	40	0.0004	0.481	-0.430677	0.02806
A_51_P298946	56334	55991	Tmed2	transmembrane emp24 do	Chr5: 124.550294	0.31934	12.6	Chr11: 48.117381	-0.5241	40	0.0004	0.32	-0.128078	0.53294
A_51_P146440	227801	17141	Dennd1a	DENN/MADD domain cont	Chr2: 37.798993	-0.5304	15.2	Chr19: 32.049009	-0.52391	40	0.0004	0.171	0.0471375	0.81913
A_51_P427425	208638	5553	BC010801	cDNA sequence BC01080	Chr9: 120.123849	0.73861	11.8	Chr4: 88.951728	0.523884	40	0.0004	0	0	1
A_51_P506513	110391	271	Qdpr	quininoid dihydropteridine	Chr5: 45.434448	1.01534	10	Chr17: 53.482714	0.523784	40	0.0004	0.402	0.5115322	0.00756
A_51_P317798	56531	100073	Zap3	ZAP3 protein	Chr12: 85.060288	-0.148	9.9	Chr7: 70.164957	0.523703	40	0.0004	0.381	0	1
A_51_P162176	27096	6399	Trappc3	trafficking protein particle	Chr4: 126.275505	-0.1	9.6	Chr13: 45.901722	0.523671	40	0.0004	0.278	-0.053168	0.79644
A_51_P158037	13506	8397	Dsc2	desmocollin 2	Chr18: 20.033061	1.78561	11.4	Chr6: 129.610158	0.523634	40	0.0004	0.352	-0.128513	0.53153
A_51_P230733	142681	15444	Slc34a3	solute carrier family 34 (so	Chr2: 25.229008	-3.5843	11.4	Chr7: 87.232692	-0.52359	40	0.0004	0.424	-0.081009	0.69402
A_51_P255336	12537	22416	Cdc2l2	cell division cycle 2 homol	Chr4: 155.649092	-0.2488	11.5	Chr8: 126.582424	0.523476	40	0.0004	0.452	0	1
A_51_P316188	66383	6991	Nifu	nitrogen fixation cluster-lik	Chr5: 113.778076	-0.4791	16.6	Chr19: 38.168495	0.523372	40	0.0004	0.545	0	1
A_51_P224617	216238	37822	Eea1	early endosome antigen 1	Chr10: 96.026770	0.59515	7.8	Chr2: 58.009356	0.523295	40	0.0004	0.491	0.0936092	0.64922
A_51_P314375	11905	20139	Serpinc1	serine (or cysteine) protein	Chr1: 160.995403	2.81829	10.2	Chr11: 50.383261	0.523071	40	0.0004	0.559	0.8488476	4.2E-08
A_51_P270083	76491	9125	Abhd14b	abhydrolase domain-conta	Chr9: 106.452655	1.22378	17.7	Chr9: 106.081354	0.522769	40	0.0004	0	0.407642	0.03872
A_51_P500996	72194	68784	2610511F20Ri	F-box and leucine-rich rep	Chr11: 98.088952	0.32617	13.3	Chr2: 33.449965	0.522691	40	0.0004	0.347	0	1
A_51_P317272	69556	16300	2310022M17R	RIKEN cDNA 2310022M17	Chr11: 31.665374	-0.7791	13.1	Chr19: 53.859502	0.522496	40	0.0004	0	-0.074824	0.7164
A_51_P163876	216742	28173	A730024A03R	RIKEN cDNA A730024A03	Chr11: 54.496650	0.27302	11.3	Chr19: 36.176569	0.522337	40	0.0004	0.436	0	1
A_51_P393934	12521	20512	Kai1	kangai 1 (suppression of t	Chr2: 93.419411	0.29883	12	Chr11: 50.383261	0.522287	40	0.0004	0.5	0	1
A_51_P186161	67702	18337	1600023E10Ri	RIKEN cDNA 1600023E10	Chr1: 39.551331	0.83398	14.1	Chr11: 26.470844	-0.5222	40	0.0004	0.299	0	1
A_51_P181772	19267	31387	Ptpre	protein tyrosine phosphata	Chr7: 135.681642	-1.8909	11.1	Chr19: 32.887053	-0.52192	40	0.0004	0.493	-0.209658	0.30397
A_51_P380824	258893	17427	Olfr1225		Chr2: 89.170596	1.81088	11.4	Chr17: 23.185669	0.521913	40	0.0004	0	0.202215	0.32185
A_51_P168133	64008	41405	Aqp9	aquaporin 9	Chr9: 71.122791	1.76741	11.7	Chr9: 72.182611	0.521526	40	0.0004	0.584	0.4370976	0.02556
A_51_P111282	16661	20125	Krt1-10	keratin complex 1, acidic,	Chr11: 99.385525	-0.1059	10.8	Chr12: 16.828469	-0.52136	40	0.0004	0.415	0	1
A_51_P337195	19193	40640	Pipox	pipecolic acid oxidase	Chr11: 77.880771	1.13717	9.1	Chr2: 156.863893	0.521233	40	0.0004	0.447	0.5542661	0.0033
A_51_P319592	52364		D5Ertd591e	DNA segment, Chr 5, ERA	Chr5: 143.710485	-0.3395	9.1	Chr19: 32.887053	-0.52121	40	0.0004	0	0	1
A_51_P272563	231713	6891	C330023M02R	RIKEN cDNA C330023M0	Chr5: 121.440045	0.28029	10.1	Chr11: 117.047188	-0.5212	40	0.0004	0.259	-0.06671	0.7461
A_51_P157255	15529	2253	Sdc2	syndecan 2	Chr15: 33.034449	1.53873	11.9	Chr2: 145.281646	0.521199	40	0.0004	0.45	0.4639802	0.01696
A_51_P202434	231887	8927	Pdap1	PDGFA associated protein	Chr7: 122.115259	0.18422	11.6	Chr11: 106.044413	0.52085	40	0.0004	0	0.1876977	0.35851
A_51_P506748	232906	35136	6430596G11R	RIKEN cDNA 6430596G11	Chr7: 16.495053	-0.0038	13.7	Chr19: 29.981175	-0.52076	40	0.0004	0.438	0	1
A_51_P411019	69470	9877	2310003P10Ri	RIKEN cDNA 2310003P10	Chr2: 127.260607	-0.4034	9.9	Chr6: 92.011105	0.520683	40	0.0004	0.422	0	1
A_51_P455208	19249	7909	Ptpn13	protein tyrosine phosphata	Chr5: 103.598271	-3.1221	13.5	Chr4: 57.613709	-0.52068	40	0.0004	0.47	0.0605597	0.76885
A_51_P367772			0610027A18Ri	RIKEN cDNA 0610027A18	Chr18: 4.397190	-0.0265	19.5	Chr11: 26.470844	-0.52062	40	0.0004	0	0	1
A_51_P487813	17035	36361	Lxn	latexin	Chr3: 67.458067	-3.1694	20.6	Chr3: 68.142801	-0.52048	40	0.0004	0.602	-0.470606	0.01525
A_51_P403193	74762	17780	1200011I03Rik	RIKEN cDNA 1200011I03	Chr17: 29.832310	1.68441	11.4	Chr17: 6.039014	0.520436	40	0.0004	0.37	0	1
A_51_P443344	75572	41776	Acyp2	acylphosphatase 2, muscl	Chr11: 30.506165	-3.2088	14.4	Chr11: 50.383261	-0.52036	40	0.0005	0	-0.026916	0.89616
A_51_P268754	210757	72287	Themis	thymocyte selection assoc	Chr10: 28.882566	0.48505	13.7	Chr3: 10.018672	0.52026	40	0.0005	0.302	0	1
A_51_P145589			--		Chr5: 137.796574	0.5171	11	Chr10: 64.710346	0.519884	40	0.0005	0	0	1
A_51_P462249	66197	86883	Cks2	CDC28 protein kinase reg	Chr1: 8.791733	0.51059	10.5	Chr18: 76.870082	-0.5197	40	0.0005	0.365	-0.075961	0.71227
A_51_P501494	113864	74373	V1rc7		Chr6: 57.233511	0.11639	16.2	Chr5: 104.143744	-0.51948	40	0.0005	0	0.1236518	0.5473
A_51_P219385	20475	72248	Six5	sine oculis-related homeot	Chr7: 19.098088	0.29863	15.2	Chr19: 29.981175	-0.51946	40	0.0005	0.456	-0.073769	0.72024
A_51_P122238	56207	9326	Uchl5	ubiquitin carboxyl-terminal	Chr1: 143.806714	-0.3718	15.3	Chr2: 139.724059	-0.51945	40	0.0005	0.278	-0.350173	0.07948
A_51_P102439			--	Mus musculus transcribed	Chr5: 87.080870	1.34707	11.7	Chr12: 34.761872	0.519411	40	0.0005	0	0	1
A_51_P392546	231123	75209	MGC36997	hypothetical protein MGC3	Chr5: 34.163522	-0.6344	15.1	Chr18: 15.249747	-0.5194	40	0.0005	0.322	0	1
A_51_P296456	77087	69134	3010027A04Ri	RIKEN cDNA 3010027A04	Chr8: 122.892692	-0.2804	10.8	Chr11: 36.802950	0.519307	40	0.0005	0.463	0	1
A_51_P494567	227707	9551	BC005624	cDNA sequence BC00562	Chr2: 30.973059	-0.1796	11.4	Chr11: 23.028397	0.519278	40	0.0005	0	-0.056712	0.78318
A_51_P173071	213109	9040	--	Mus musculus 0 day neon	Chr1: 30.804110	0.4592	14.6	Chr19: 32.887053	0.519088	40	0.0005	0	0	1
A_51_P238094	72054	73902	Cyp4f18	cytochrome P450, family 4	Chr8: 71.989082	2.11159	22.5	Chr11: 50.383261	0.519003	40	0.0005	0.533	-0.147219	0.47296
A_51_P195930	21336	20288	Tacr1	tachykinin receptor 1	Chr6: 82.492566	1.10395	12.9	Chr4: 88.051976	0.518911	40	0.0005	0.407	0.1365783	0.50586
A_51_P169173	12576	2999	Cdkn1b	cyclin-dependent kinase in	Chr6: 134.921085	0.63507	9.3	Chr2: 156.863893	0.518857	40	0.0005	0.381	-0.018649	0.92795
A_51_P403388	12896	77	Cpt2	carnitine palmitoyltransfer	Chr4: 107.904018	0.54612	12.4	Chr5: 67.348022	-0.51875	40	0.0005	0.583	0.2210874	0.27775
A_51_P200068	854261		Arf3	ADP-ribosylation factor 3	Chr15: 98.738177	-0.9778	8.4	Chr5: 42.056779	0.518663	40	0.0005	0	-0.076147	0.71159
A_51_P243463	77208		5830471E12Ri	RIKEN cDNA 5830471E12	Chr8: 117.461431	-1.0591	12.3	Chr11: 35.687788	-0.51859	40	0.0005	0	-0.159907	0.43521
A_51_P200151	68083	39574	Gdpd1	glycerophosphodiester ph	Chr13: 41.009507	0.39456	25	Chr4: 88.592399	0.518539	40	0.0005	0.444	-0.368346	0.06409
A_51_P336910	68421	10156	0910001K20Ri	RIKEN cDNA 0910001K20	Chr1: 24.765024	-0.1724	14.2	Chr19: 35.618002	0.518473	40	0.0005	0.302	0	1
A_51_P268914	19946	766	Rpl30	ribosomal protein L30	Chr6: 38.377133	-0.775	14.6	Chr11: 24.672748	-0.51844	40	0.0005	0.294	-0.100707	0.62449
A_51_P485768	77683	11698	Ehmt1	RIKEN cDNA 9230102N17	Chr2: 24.790802	-0.3973	9.8	Chr13: 45.359287	-0.51833	40	0.0005	0.441	-0.049041	0.81195
A_51_P160564	59022	2809	Edf1	endothelial differentiation-	Chr2: 25.562026	0.20934	10.8	Chr2: 145.281646	0.5182	40	0.0005	0.41	0.1393717	0.49712
A_51_P329251	66121	11923	1110001O19R	RIKEN cDNA 1110001O19	Chr14: 20.704275	-0.5353	9.7	Chr4: 85.092715	-0.51802	40	0.0005	0	0	1

A_51_P466162	12261	31023	C1qbp	complement component 1,	Chr11: 70.977941	-0.0731	13.9	Chr11: 48.117381	-0.51801	40	0.0005	0.601	0.2163898	0.28835
A_51_P237514	66235	20364	Eif1ay	RIKEN cDNA 1500010B24	ChrX: 159.385563	-0.673	14.5	Chr5: 41.531237	-0.51789	40	0.0005	0	0.0500271	0.80824
A_51_P117449	24116	68478	Whsc2h	Wolf-Hirschhorn syndrome	Chr5: 33.898154	-0.4472	17.2	Chr3: 10.018672	-0.51767	40	0.0005	0.478	0	1
A_51_P282268	75627	2317	Snapc1	RIKEN cDNA 2700033G11	Chr12: 73.984123	-0.9326	9.5	Chr7: 45.588280	-0.51756	40	0.0005	0	-0.41701	0.03406
A_51_P231103	13214	3822	Defb1	defensin beta 1	Chr8: 21.794558	-3.2557	43	Chr8: 18.512781	-0.51744	40	0.0005	0.547	-0.135938	0.50788
A_51_P304867	110957	55839	D1Pas1	DNA segment, Chr 1, Past	Chr1: 186.969767	0.55473	11.6	Chr4: 85.092715	0.517295	40	0.0005	0.451	-0.032356	0.87532
A_51_P254471	11797	900	Birc3	baculoviral IAP repeat-con	ChrUn: 1.000000	-0.6033	10.2	Chr4: 97.344234	0.517041	40	0.0005	0.425	-0.159896	0.43524
A_51_P319460	18414	2972	Osmr	oncostatin M receptor	Chr15: 6.813686	-1.153	12.8	Chr18: 9.902166	-0.51688	40	0.0005	0.52	-0.202218	0.32184
A_51_P507172	66367	35272	C19orf47	human chromosome 19 op	Chr7: 27.582008	-0.7617	11	Chr19: 32.034526	-0.51664	40	0.0005	0	0	1
A_51_P291129	14148	31216	Fdx1	ferredoxin 1	Chr9: 51.943406	1.15654	38.6	Chr9: 51.713125	-0.51663	40	0.0005	0.374	0.4627754	0.01728
A_51_P381657	230484	2528	Usp1	ubiquitin specific protease	Chr4: 98.935377	-0.5327	10.3	Chr11: 50.383261	-0.51657	40	0.0005	0.467	-0.303759	0.1314
A_51_P453948	13494	3060	Drg1	developmentally regulated	Chr11: 3.250249	0.10017	14.9	Chr19: 29.981175	0.516416	40	0.0005	0.44	0.1467094	0.47451
A_51_P423219	80912	22830	Pum1	pumilio 1 (Drosophila)	Chr4: 130.781072	-0.0221	15.7	Chr19: 32.887053	0.516195	40	0.0005	0.416	-0.004217	0.98369
A_51_P214985	225207	9151	Evi3	ecotropic viral integration	Chr18: 13.688215	-2.9615	9.6	Chr4: 59.835329	-0.51611	40	0.0005	0.496	0	1
A_51_P277445	30945	8501	Rnf19	ring finger protein (C3HC4	Chr15: 36.240038	-0.3642	9.4	Chr18: 15.249747	-0.51587	40	0.0005	0.364	-0.00851	0.96709
A_51_P305981	258808	103777	Olfr620		Chr7: 103.611754	1.9281	13.9	Chr17: 23.185669	0.515773	40	0.0005	0	0.3333932	0.09604
A_51_P234888	69487	11474	Ndufaf5	NADH dehydrogenase (ub	Chr2: 140.193597	-0.6361	51.1	Chr2: 139.724059	-0.51566	40	0.0005	0	0	1
A_51_P484869	14431	32089	Gamt	guanidinoacetate methyltra	Chr10: 80.258246	2.32354	14.7	Chr4: 79.052159	0.515607	40	0.0005	0.647	0.543434	0.00412
A_51_P497463	21945	7980	Dedd	death effector domain-con	Chr1: 171.341015	0.60329	10.1	Chr9: 81.859839	0.515478	40	0.0005	0.387	-0.296576	0.14123
A_51_P518822			AW050338	expressed sequence AW0	Chr11: 54.364414	-2.7239	8.9	Chr18: 16.414681	-0.51511	40	0.0005	0	0	1
A_51_P292116	15893	7777	Ica1	islet cell autoantigen 1	Chr6: 8.630546	-1.9578	11.4	Chr6: 92.011105	-0.51504	40	0.0005	0.457	-0.207635	0.30877
A_51_P236464	66559	11987	Metapl1	methionine aminopeptidas	Chr2: 71.522581	1.08249	11.3	Chr19: 25.666449	0.51489	40	0.0005	0	0.2781987	0.16878
A_51_P303906	66713	4181	Actr2	ARP2 actin-related protein	Chr11: 20.062387	-0.8855	16.8	Chr4: 82.616377	-0.51484	40	0.0005	0.339	-0.283402	0.16063
A_51_P119562	66377	1865	Ndufc1	NADH dehydrogenase (ub	Chr3: 51.405528	-0.352	13.7	Chr12: 12.791300	-0.51457	40	0.0005	0	0.0607986	0.76796
A_51_P176352	29811	22785	Ndr2	N-myc downstream regula	Chr14: 51.905563	1.66322	9.9	Chr6: 129.610158	0.514414	40	0.0005	0.583	0	1
A_51_P479590	211652	69180	BC037006	cDNA sequence BC03700	Chr11: 35.839045	-0.05	10.9	Chr2: 145.281646	0.51433	40	0.0005	0.394	0	1
A_51_P483180	76561	22941	Snx7	sorting nexin 7	Chr3: 117.782139	-0.617	12.4	Chr9: 80.143684	-0.51419	40	0.0005	0	-0.00225	0.9913
A_51_P169516	70414		2610024M03R	RIKEN cDNA 2610024M03	Chr2: 178.411289	-2.2961	19.6	Chr19: 32.887053	-0.51372	40	0.0006	0	0	1
A_51_P196726	16425	1668	Itih2	inter-alpha trypsin inhibito	Chr2: 10.097199	2.9782	14.3	Chr2: 156.863893	0.513698	40	0.0006	0.254	0.8104606	5.2E-07
A_51_P491715	18023	20685	Nfe2l1	nuclear factor, erythroid de	--	-0.0204	15.6	Chr6: 89.010567	0.513677	40	0.0006	0.59	-0.173146	0.39763
A_51_P468599	74355	113789	4931400A14Ri	RIKEN cDNA 4931400A14	Chr7: 102.175292	-0.8089	13.3	Chr4: 82.616377	-0.51367	40	0.0006	0.417	0	1
A_51_P174894	223701	32487	Mkl1	megakaryoblastic leukemia	Chr15: 81.012330	-1.4956	9.5	Chr16: 66.732672	-0.51343	40	0.0006	0.415	-0.277536	0.16984
A_51_P429681	69484		2310007D03R	RIKEN cDNA 2310007D03	Chr5: 66.298819	-1.2107	16.7	Chr11: 33.638733	-0.5133	40	0.0006	0	0	1
A_51_P258138	66231	11821	1500006O09R	RIKEN cDNA 1500006O09	Chr14: 13.949110	-0.4642	11	Chr18: 12.550517	-0.513	40	0.0006	0.355	0	1
A_51_P479894	54451	6499	Cpsf3	cleavage and polyadenyla	Chr12: 21.310212	0.47788	9.5	Chr6: 55.170672	0.5129	40	0.0006	0.271	-0.207189	0.30983
A_51_P413698	66448	9941	Mrpl20	mitochondrial ribosomal pr	Chr4: 155.808769	-0.7431	9.6	Chr15: 90.928980	-0.5129	40	0.0006	0.252	-0.292427	0.14715
A_51_P490817	107029	37615	Me2	malic enzyme 2, NAD(+)-d	Chr18: 73.770122	-1.0984	13.5	Chr18: 3.516540	-0.51278	40	0.0006	0.382	-0.162263	0.42838
A_51_P397426	30057	8262	Timm8b	translocase of inner mitoch	Chr9: 50.605265	-0.4336	15	Chr4: 57.613709	-0.51269	40	0.0006	0.24	0.0481651	0.81526
A_51_P508510	374032		Notch1	Notch gene homolog 1 (Dr	Chr2: 26.459252	-0.2646	16.5	Chr18: 76.870082	-0.51249	40	0.0006	0	-0.276343	0.17176
A_51_P318182	78672		9530057J20Ri	RIKEN cDNA 9530057J20	Chr8: 19.762431	-1.881	18.3	Chr8: 22.148557	-0.51247	40	0.0006	0	0.0030503	0.9882
A_51_P443387	60532		Wtap	Wilms' tumour 1-associati	Chr17: 12.966837	-0.0632	16	Chr12: 104.393980	-0.51222	40	0.0006	0.429	0.0588659	0.77515
A_51_P345022	239673	72272	4732456N10	hypothetical protein 47324	Chr15: 101.556283	0.33983	14.9	Chr6: 24.273714	0.512151	40	0.0006	0	0	1
A_51_P476489			--	Mus musculus 15 days em	Chr16: 45.960597	1.09741	11.6	Chr19: 22.456818	0.511905	40	0.0006	0	0	1
A_51_P489337	56208	2794	Becn1	beclin 1 (autophagy, coile	Chr11: 101.290457	-0.245	12.1	ChrX: 42.452846	0.511754	40	0.0006	0.493	-0.125011	0.54287
A_51_P169867	24056	23450	Sh3bp5	SH3-domain binding prote	Chr14: 31.374994	0.54729	13.5	Chr11: 50.383261	0.511583	40	0.0006	0.437	0.2450727	0.22756
A_51_P320552	74043	9922	4632428M11R	RIKEN cDNA 4632428M11	Chr6: 121.195849	1.10837	11.2	Chr9: 24.616289	0.511549	40	0.0006	0.351	0	1
A_51_P308844	68404	9577	Nrn1	neuritin 1	Chr13: 36.726072	1.94539	18.4	Chr2: 149.665875	0.511517	40	0.0006	0.458	0.580284	0.00189
A_51_P500544	66868	11228	1200003O06R	RIKEN cDNA 1200003O06	Chr3: 67.604009	-0.1395	13.2	Chr3: 9.269818	0.511493	40	0.0006	0	0	1

Funding for The GeneNetwork: NIAAA (U01AA13499, U24AA13513), NIDA, NIMH, and NIAAA (P20-DA21131), NCI MMHCC (U01CA105417), and NCRR (U01NR 105417)

Supplementary Table 2
Citations: Please see http://www.genenetwork.org/reference.html
Trait : Liver LOWESS Stnfd 01/06 Males : A_51_P290626
Database : UNC Agilent G4121A Liver LOWESS Stanford (Jan06) Males
Date : October 08, 2017
Time : 23:26 GMT
Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	omologene	Symbol	Description	cation (Chr: M	Mean Expr	lax LR	S Location (C	Sample r	Case	Sample p(r	Lit Corr	Tissue r	issue p
A_51_P290626	268756	6566	Gulo	gulonolactone	Chr14: 65.9869	2.488146341	11.7	ChrX: 146.966	1	40	0	1	1	1
A_51_P504546	107747	122031	Fthfd	formyltetrahydr	Chr6: 90.5983	2.066219512	13	Chr11: 62.251	0.77547	40	3.27E-10	0.64289	0.6201	7E-04
A_51_P333680	27411	5183	Slc14a2	solute carrier fa	Chr18: 78.183	0.357780488	10.5	Chr9: 110.798	0.77302	40	4.15E-10	0.47705	-0.1426	0.487
A_51_P479894	54451	6499	Cpsf3	cleavage and p	Chr12: 21.310	0.438439024	11.1	Chr11: 62.251	0.76125	40	1.25E-09	0.27051	-0.2072	0.31
A_51_P213246	78521	17572	B230219D2	RIKEN cDNA E	Chr13: 55.703	-0.725731707	14.4	Chr7: 40.3014	-0.7556	40	2.06E-09	0	-0.0644	0.755
A_51_P280158	319322	6678	Sf3b2	splicing factor	Chr19: 5.2742	-0.390463415	9.8	ChrX: 146.966	0.75419	40	2.33E-09	0.26471	-0.0768	0.709
A_51_P402583	14756	1152	Gpld1	glycosylphosph	Chr13: 24.990	2.409585366	15.5	Chr17: 53.671	0.74898	40	3.63E-09	0.58172	-0.331	0.099
A_51_P257156	77006	11400	Ddrgk1	DDRGK domai	Chr2: 130.662	1.383195122	12.3	ChrX: 146.966	0.74892	40	3.65E-09	0.34145	0	1
A_51_P384197	208643	110725	Eif4g1	eukaryotic tran	Chr16: 20.692	0.942463415	10.8	Chr5: 97.8104	0.74754	40	4.1E-09	0.38198	-0.1436	0.484
A_51_P182592	17308	1804	Mgat1	mannoside ace	Chr11: 49.262	0.608146341	10.9	Chr7: 83.0379	0.74737	40	4.16E-09	0.53403	0.1236	0.547
A_51_P433824	21991	311	Tpi	triosephosphat	Chr6: 124.810	-0.268609756	10.2	ChrX: 166.686	0.74634	40	4.53E-09	0.65677	0	1
A_51_P272005	56347	2781	Eif3s8	eukaryotic tran	Chr7: 126.547	0.105292683	12.6	Chr11: 62.251	0.73891	40	8.28E-09	0.37849	0	1
A_51_P189722	104248	49307	Cabin1	calcineurin bin	Chr10: 75.646	-0.537609756	10.6	Chr4: 114.835	0.73847	40	8.58E-09	0.35316	0.1644	0.422
A_51_P205833	12034	5263	Bcap37	B-cell receptor	Chr6: 124.716	0.946829268	11.1	Chr17: 51.900	0.7369	40	9.71E-09	0.52315	0	1
A_51_P332799	56457	37464	Clptm1	cleft lip and pal	Chr7: 19.6334	0.474219512	9.7	Chr16: 89.885	0.73294	40	1.32E-08	0.42659	0.227	0.265
A_51_P209502	110213	2419	Tegt	testis enhance	Chr15: 99.409	0.589073171	11.8	Chr7: 40.3014	0.73023	40	1.58E-08	0.57454	0.2189	0.283
A_51_P445194	57316	4619	C1d	nuclear DNA b	Chr11: 17.267	0.266243902	10.9	Chr7: 40.6057	-0.7299	40	1.63E-08	0.2593	-0.0734	0.722
A_51_P290676	52036	115911	ppp6r3	protein phosph	Chr19: 3.4555	0.393731707	12.9	Chr7: 40.9251	0.72766	40	1.92E-08	0.35403	0	1
A_51_P442481	56317	10512	Apc7	anaphase-pron	Chr5: 122.444	0.134365854	8.9	Chr7: 40.9251	0.727	40	2.02E-08	0.3472	0	1
A_51_P227777	21974	68155	Top2b	topoisomerase	Chr14: 16.430	-1.102902439	11.4	Chr16: 91.670	-0.7222	40	2.87E-08	0.53045	-0.4152	0.035
A_51_P140182	11669	55480	Aldh2	aldehyde dehy	Chr5: 121.567	1.314317073	12.6	ChrX: 146.966	0.7217	40	2.98E-08	0.7018	0.2996	0.137
A_51_P302588	66043	37514	Atp5d	RIKEN cDNA C	Chr10: 80.145	0.507341463	13.3	Chr7: 46.4274	0.72084	40	3.17E-08	0.38758	0.03	0.884
A_51_P185871	54484	32175	Mkrn1	makorin, ring fi	Chr6: 39.3980	-1.002560976	9.5	ChrX: 166.686	0.71984	40	3.41E-08	0.50855	-0.3147	0.117
A_51_P118742	13495	1061	Drg2	developmental	Chr11: 60.468	0.649707317	9.4	Chr16: 89.885	0.71952	40	3.49E-08	0.46505	0.2807	0.165
A_51_P165984	11993	7239	Aup1	ancient ubiquit	Chr6: 83.0563	1.488926829	11	ChrX: 153.551	0.7167	40	4.27E-08	0.3384	0.2225	0.275
A_51_P374498	15278	7362	Tfb2m	transcription fa	Chr1: 179.528	0.432073171	13.2	Chr7: 45.5882	-0.7137	40	5.26E-08	0.37764	0.1398	0.496
A_51_P287206	67510	41104	1810036I24	RIKEN cDNA 1	Chr11: 62.894	0.252853659	34.5	Chr11: 62.251	-0.7128	40	5.61E-08	0.3571	0.075	0.716
A_51_P357664	15461	55890	Hras1	Harvey rat sarc	Chr7: 141.191	0.493	15.9	Chr16: 86.457	0.71181	40	6E-08	0.36322	-0.1835	0.37
A_51_P517982	93739	68550	Gabarapl2	RIKEN cDNA 2	Chr5: 76.0600	-1.041707317	10.6	ChrX: 164.079	-0.7107	40	6.47E-08	0.28924	-0.2166	0.288
A_51_P437000	12453	4979	Ccni	cyclin I	Chr6: 47.0462	-0.144682927	12.6	Chr7: 40.9251	0.7103	40	6.66E-08	0.3922	-0.0244	0.906
A_51_P136516	11998	417	Avp	arginine vasop	Chr2: 130.576	0.112487805	9.3	ChrX: 146.966	0.70972	40	6.93E-08	0.46569	0.0698	0.735
A_51_P111544	20813	37738	Srp14	signal recogniti	Chr2: 118.475	-0.937146341	8.8	Chr18: 16.414	-0.7078	40	7.88E-08	0.2188	-0.4155	0.035
A_51_P171406	17955	90892	Nap1l4	nucleosome as	Chr7: 143.513	-0.475756098	9.3	Chr15: 92.058	0.70446	40	9.87E-08	0.41987	-0.2117	0.299
A_51_P346104	52551	31122	Sgt	small glutamin	Chr10: 81.044	0.264560976	10.3	Chr7: 46.4274	0.70426	40	1E-07	0.18169	0	1
A_51_P134007	17975	86963	Ncl	nucleolin	Chr1: 86.3513	-0.193097561	10.6	Chr7: 68.1166	0.70303	40	1.09E-07	0.52006	-0.1707	0.404
A_51_P120201	276770	100947	Eif5a	eukaryotic tran	Chr11: 69.917	0.565756098	15.5	ChrX: 146.966	0.70081	40	1.26E-07	0.59779	-0.0842	0.682
A_51_P101635	56424	4281	Stub1	STIP1 homolo	Chr17: 25.830	-0.084073171	13.7	Chr9: 105.774	0.6986	40	1.45E-07	0.50122	-0.0518	0.802
A_51_P228632			Rap1a		Chr3: 105.728	-0.783073171	14.8	Chr7: 40.3014	-0.6968	40	1.63E-07	0	-0.3003	0.136
A_51_P408460	71490		8430415N2	RIKEN cDNA 8	Chr1: 139.452	0.172195122	14.4	Chr9: 105.774	-0.6962	40	1.69E-07	0	0.0374	0.856
A_51_P358112	76267	22753	Fads1	RIKEN cDNA C	Chr19: 10.196	1.715439024	12	Chr7: 68.1166	0.69433	40	1.9E-07	0.58603	0.4614	0.018
A_51_P241828	20320	7531	Nptn	neuroplastin (Ig	Chr9: 58.6527	-2.028317073	9.4	Chr7: 83.0379	-0.6942	40	1.92E-07	0.37239	-0.2958	0.142
A_51_P196726	16425	1668	Itih2	inter-alpha tryp	Chr2: 10.0971	2.739487805	12.3	ChrX: 146.966	0.69193	40	2.21E-07	0.25383	0.8105	5E-07
A_51_P384382	54394	9327	Crlf3	cytokine recep	Chr11: 80.046	-1.434268293	10.3	Chr7: 30.4357	-0.6916	40	2.26E-07	0.37831	-0.1402	0.495
A_51_P413255	72020	10114	1600021C1	RIKEN cDNA 1	Chr16: 64.780	-0.513170732	14.1	Chr7: 40.3014	-0.6912	40	2.31E-07	0	0	1
A_51_P108757	71665	20078	Fuca	fucosidase, alp	Chr4: 135.933	0.235829268	12.8	Chr7: 39.8192	0.69077	40	2.38E-07	0.45216	0	1
A_51_P441377	319162	119112	Hist3h2bb	histone 3, H2b	Chr11: 58.954	0.729146341	10.1	Chr11: 90.803	0.68994	40	2.51E-07	0.27842	-0.0194	0.925
A_51_P141818	75398	32711	Mrpl32	mitochondrial r	Chr13: 14.610	0.159097561	12.8	Chr7: 40.3014	-0.6876	40	2.9E-07	0	0.0893	0.665
A_51_P175871	14719	1572	Got2	glutamate oxal	Chr5: 138.363	1.115902439	12	Chr18: 16.414	0.68289	40	3.85E-07	0.56592	0.2055	0.314
A_51_P331021	75516	18991	1700013G2	RIKEN cDNA 1	Chr12: 9.0359	0.63204878	12.8	Chr7: 39.8192	-0.6824	40	3.96E-07	0	0	1
A_51_P359821	1453		Csnk1d	casein kinase	Chr11: 120.962	0.054658537	11.8	Chr12: 113.258	0.68034	40	4.48E-07	0	-0.2841	0.159
A_51_P265869	15526	39452	Hspa9a	heat shock pro	Chr18: 34.938	0.124512195	8.4	Chr15: 97.760	0.68031	40	4.49E-07	0.60058	0	1
A_51_P163958	20751	37735	Spr	sepiapterin red	Chr6: 85.1338	1.139756098	8.8	Chr17: 51.900	0.68016	40	4.53E-07	0.69309	0.4826	0.013
A_51_P361951	66694	4378	Uqcrfs1	RIKEN cDNA 4	Chr13: 30.540	-0.219658537	19.9	Chr7: 40.3014	-0.68	40	4.56E-07	0.65767	-0.0648	0.753
A_51_P209225	101206	4633	Tada3l	transcriptional	Chr6: 113.366	-0.059243902	9.7	Chr17: 72.249	0.67963	40	4.68E-07	0.41037	-0.1632	0.426
A_51_P138876	227743	11473	Mapkap1	mitogen-activa	Chr2: 34.5974	0.734073171	14.4	Chr7: 40.3014	0.67947	40	4.72E-07	0.34429	-0.1104	0.591
A_51_P279064	224807	101682	BC026370	cDNA sequenc	Chr17: 45.660	0.623536585	6.6	Chr6: 104.841	0.67916	40	4.81E-07	0	0	1
A_51_P423680	69684	6821	2310044P1	RIKEN cDNA 2	Chr11: 101.40	0.194536585	10.4	Chr5: 14.3241	0.67863	40	4.96E-07	0.37946	0	1
A_51_P423079	100066	115603	Cyp2j11-ps	cytochrome P4	Chr4: 96.2949	0.478097561	12.6	Chr17: 45.311	0.67593	40	5.81E-07	0	0	1
A_51_P221886	230249	6056	Kiaa0368	proteasome-as	Chr4: 58.8115	0.393390244	11.3	Chr7: 40.6057	0.67557	40	5.93E-07	0.31048	0	1
A_51_P450812	102339	7155	Cog4	component of	Chr8: 110.882	0.553268293	12	Chr7: 46.4274	0.6755	40	5.95E-07	0	0.2981	0.139
A_51_P434776	72106	12441	2610003J0	RIKEN cDNA 2	Chr17: 25.831	0.880658537	12.1	Chr16: 89.885	0.67452	40	6.3E-07	0	0.3571	0.073
A_51_P426739	76282	91040	Gpt1	glutamic pyruvi	Chr15: 76.699	2.110609756	11.8	Chr18: 86.580	0.67173	40	7.39E-07	0.62862	0.2993	0.137
A_51_P446202	56086	55707	Set	SET nuclear or	Chr7: 99.9970	0.253243902	12.8	Chr16: 82.141	0.6712	40	7.62E-07	0.58124	-0.1972	0.334
A_51_P103718	27399	56602	Ihpk1	inositol hexaph	Chr9: 108.048	-0.69804878	8.3	Chr7: 40.3014	0.67088	40	7.76E-07	0.57151	-0.0359	0.862
A_51_P449048	66054	10085	Cn2	cytosolic nonsp	Chr18: 84.668	-1.767390244	12.9	Chr11: 56.516	0.67042	40	7.97E-07	0.51575	0	1
A_51_P499923	228961	11647	Npepl1	cDNA sequenc	Chr2: 174.122	0.663829268	8.9	Chr7: 24.9379	0.67034	40	8E-07	0	0.0517	0.802
A_51_P265465	106861	14055	Abhd3	abhydrolase do	Chr18: 10.644	0.011341463	11.6	Chr4: 81.9586	-0.6699	40	8.22E-07	0.37142	0.4381	0.025
A_51_P269434	68365	48679	Rab14	Rab GTPase fa	Chr2: 35.1823	-0.180658537	15.7	Chr12: 108.37	0.66866	40	8.8E-07	0.28692	0.0859	0.677
A_51_P238094	72054	73902	Cyp4f18	cytochrome P4	Chr8: 71.9890	1.93304878	12.9	ChrX: 166.686	0.66847	40	8.89E-07	0.53321	-0.1472	0.473
A_51_P470448	269255		AW060766	expressed seq	Chr2: 29.1823	-0.985146341	18.3	Chr17: 51.900	-0.6683	40	8.96E-07	0	0	1
A_51_P116447	74204	12544	Xpo6	exportin 6	Chr7: 126.104	0.000146341	8.1	ChrX: 146.966	0.66823	40	9.01E-07	0.28751	-0.0263	0.898
A_51_P503303	59048	10993	1500002I11	RIKEN cDNA 1	ChrX: 38.6311	0.035365854	10.1	Chr7: 40.6057	-0.6679	40	9.2E-07	0.45518	0	1
A_51_P310629	11814	81615	Apoc3	apolipoprotein	Chr9: 46.2332	2.368634146	11.9	Chr2: 5.84636	0.66617	40	1.01E-06	0.56168	0.7259	3E-05
A_51_P413177	27801	8363	Zdhhc8	zinc finger, DH	Chr16: 18.222	-0.24695122	6.6	Chr9: 113.291	0.66484	40	1.09E-06	0.43668	-0.1253	0.542
A_51_P267063	223337	71100	AI313915	expressed seq	Chr15: 9.3704	-0.019512195	13.9	Chr7: 40.3014	0.66455	40	1.11E-06	0.33292	0	1
A_51_P482841	66194	56130	Pycrl	RIKEN cDNA 1	Chr15: 75.916	0.74302439	8.3	Chr3: 9.26981	0.6644	40	1.12E-06	0	0.2295	0.259

A_51_P124132	56448	68036	Cyp2d6	cytochrome P4	Chr15: 82.4555	2.298268293	12.4	ChrX: 146.966	0.66404	40	1.14E-06	0.48683	0	1
A_51_P385415	112406	14204	Egln2	EGL nine hom	Chr7: 27.15914	1.069682927	13.4	Chr16: 74.917	0.66325	40	1.19E-06	0.62113	-0.1349	0.511
A_51_P481210	237222	2677	Ofd1	oral-facial-digit	ChrX: 166.390	-0.701707317	10.1	Chr7: 40.6057	-0.6632	40	1.19E-06	0.40243	-0.0792	0.7
A_51_P120008	72404	56839	2610034K1	RIKEN cDNA 2	ChrX: 23.8058	-0.949536585	12.9	Chr12: 111.17	-0.663	40	1.2E-06	0.22759	0	1
A_51_P258186	11637	1227	Ak2	adenylate kina	Chr4: 129.008	1.482365854	8.5	Chr2: 78.1003	0.66263	40	1.23E-06	0.58963	0.3606	0.07
A_51_P173686	11977	35	Atp7a	ATPase, Cu++	ChrX: 106.127	-0.864414634	11.9	Chr9: 105.774	-0.661	40	1.34E-06	0.53178	-0.3268	0.103
A_51_P381527	26428	8059	Orc4l	origin recogniti	Chr2: 48.9052	-0.299609756	9.6	Chr7: 40.3014	-0.6604	40	1.39E-06	0.26076	-0.2544	0.21
A_51_P154222	85305	4053	Kars	lysyl-tRNA syn	Chr8: 111.996	0.369853659	13	Chr16: 74.917	0.65984	40	1.43E-06	0.39256	-0.0607	0.768
A_51_P218236	17992	37629	Ndufa4	NADH dehydrc	Chr6: 11.9004	-0.334097561	20.2	Chr7: 40.3014	-0.6591	40	1.49E-06	0.43369	0.1802	0.378
A_51_P489043	20185	38166	Ncor1	nuclear recept	Chr11: 62.319	0.124756098	11.3	Chr12: 111.17	0.65846	40	1.54E-06	0.40729	-0.134	0.514
A_51_P397426	30057	8262	Timm8b	translocase of	Chr9: 50.6052	-0.417634146	12.4	ChrX: 146.966	-0.658	40	1.58E-06	0.23994	0.0482	0.815
A_51_P443344	75572	41776	Acyp2	acylphosphata	Chr11: 30.506	-3.029658537	16.7	Chr6: 100.868	-0.6572	40	1.65E-06	0	-0.0269	0.896
A_51_P157895	12568	3623	Cdk5	cyclin-depende	Chr5: 24.4197	0.236829268	10.2	Chr9: 105.774	0.65682	40	1.68E-06	0.37421	0.0069	0.973
A_51_P388158	55944	2782	Eif3s7	eukaryotic tran	Chr15: 77.959	0.437682927	13.2	Chr11: 76.947	0.65671	40	1.69E-06	0.54326	0	1
A_51_P165330	66845	81733	Mrpl33	mitochondrial r	Chr5: 31.6225	-0.651609756	7.8	Chr7: 40.3014	-0.6558	40	1.77E-06	0	-0.0573	0.781
A_51_P146320	20354	21282	Sema4d	sema domain,	Chr13: 51.702	0.128609756	16.2	Chr9: 108.514	0.65534	40	1.82E-06	0.57373	-0.0714	0.729
A_51_P111212	67604	41080	1110007L1	RIKEN cDNA 1	Chr5: 139.269	-1.143341463	10.8	Chr5: 97.8104	-0.6551	40	1.84E-06	0	-0.1562	0.446
A_51_P279552	12390	942	Cav2	caveolin 2	Chr6: 17.2883	-2.856390244	9.5	Chr6: 101.847	-0.6551	40	1.84E-06	0.50007	-0.0582	0.777
A_51_P131261	69480	52649	1700029M0	tetratricopeptid	Chr12: 81.664	0.913195122	8.7	Chr7: 40.3014	0.65419	40	1.93E-06	0.38566	0	1
A_51_P426919	14910		Gt(ROSA)2	gene trap ROS	Chr6: 113.071	-0.440292683	11.7	Chr6: 100.868	-0.654	40	1.95E-06	0.31577	0.5748	0.002
A_51_P370822	234388	41702	1810023B2	RIKEN cDNA 1	Chr8: 70.8684	0.307341463	19.9	Chr16: 86.161	0.65379	40	1.97E-06	0	0	1
A_51_P165914	228491	82354	6430601A2	RIKEN cDNA 6	Chr2: 114.193	-0.848731707	15.8	Chr7: 40.3014	-0.6534	40	2.02E-06	0	0	1
A_51_P415945	19166	2081	Psma2	proteasome (pi	Chr13: 14.625	-0.485902439	10.8	Chr7: 40.3014	-0.6524	40	2.12E-06	0.41548	0.0323	0.876
A_51_P453856	93687	37546	Csnk1a1	casein kinase	Chr18: 61.588	-0.977756098	12.9	Chr7: 40.3014	-0.6521	40	2.15E-06	0.47576	-0.1201	0.559
A_51_P189438	230577	5830	BC027073	cDNA sequenc	Chr4: 106.654	0.371512195	7.7	Chr4: 58.3740	0.65203	40	2.17E-06	0	0	1
A_51_P190805	11767	4017	Ap1m1	adaptor-relatec	Chr8: 72.2572	0.029097561	15.8	Chr8: 72.5450	0.65195	40	2.17E-06	0.29471	-0.1209	0.556
A_51_P283759	18033	2971	Nfkb1	nuclear factor	Chr3: 135.584	-0.968902439	14.6	Chr7: 68.1166	-0.6513	40	2.25E-06	0.38689	-0.2104	0.302
A_51_P294765	67698	12175	2310044D2	RIKEN cDNA 2	Chr1: 95.3340	-1.104756098	9	Chr12: 34.775	-0.6505	40	2.35E-06	0	0	1
A_51_P307220	223690	16352	C730048E1	RIKEN cDNA (	Chr15: 79.053	0.196756098	9.9	Chr5: 97.8104	0.65039	40	2.36E-06	0.15153	0	1
A_51_P485203	192292	8373	Nrbp	nuclear recept	Chr5: 31.2510	0.254585366	8	ChrX: 153.708	0.64985	40	2.42E-06	0.33255	0	1
A_51_P338244	21855	4620	Timm17b	translocator of	ChrX: 7.90669	0.977829268	10.1	Chr7: 24.9379	0.64978	40	2.43E-06	0.34082	0.4105	0.037
A_51_P466148	12039	569	Bckdha	branched chair	Chr7: 25.6300	1.115439024	6.8	Chr4: 114.835	0.64924	40	2.5E-06	0.59342	0.2573	0.204
A_51_P427603	235044	11229	BC018242	cDNA sequenc	Chr9: 21.9486	-0.534560976	8.4	ChrX: 166.686	0.64864	40	2.58E-06	0.37721	0.2393	0.239
A_51_P452807	11409	20057	Acads	acyl-Coenzyme	Chr5: 115.110	1.368317073	11.1	Chr18: 85.799	0.64844	40	2.61E-06	0.6663	0.182	0.373
A_51_P194765	68999	32238	Anapc10	RIKEN cDNA 1	Chr8: 79.7751	-0.796512195	13.8	Chr7: 39.8192	-0.6484	40	2.61E-06	0.41446	0.3773	0.057
A_51_P168608	30156		Odz4	odd Oz/ten-m h	ChrUn: 1.0000	0.60395122	13.6	ChrX: 146.966	0.64824	40	2.63E-06	0	-0.0547	0.791
A_51_P439626	26396	48591	Map2k2	mitogen activa	Chr10: 81.1225	1.158390244	13.3	Chr16: 88.032	0.64823	40	2.64E-06	0.47214	0.1316	0.522
A_51_P243333	14797	879	Aes	amino-terminal	Chr10: 81.5657	1.008902439	10.1	Chr16: 88.032	0.64754	40	2.73E-06	0.44942	0.1717	0.402
A_51_P485556	76614	38234	Immt	inner membrar	Chr6: 71.8748	-0.247390244	7.5	Chr7: 68.5806	0.64635	40	2.9E-06	0.49106	-0.0678	0.742
A_51_P179921	19289	3590	Punc	putative neuror	Chr9: 65.1854	0.627512195	13.9	Chr9: 108.514	0.64472	40	3.15E-06	0.39624	0.1454	0.479
A_51_P210611	69981	110703	2010200I23	RIKEN cDNA 2	Chr9: 79.7691	-0.507146341	10.2	ChrX: 164.079	-0.6442	40	3.23E-06	0.43286	0	1
A_51_P386526	94254	36477	Wbscr16	Williams-Beure	Chr5: 134.148	0.661512195	11.6	Chr7: 68.1166	0.64413	40	3.25E-06	0.23652	0.0143	0.945
A_51_P136820	19156	37680	Psap	prosaposin (su	Chr10: 60.301	-0.35797561	11.7	Chr7: 40.3014	0.64348	40	3.36E-06	0.52077	-0.1804	0.378
A_51_P489970	21371	3388	Tbca	tubulin cofacto	Chr7: 122.838	-0.32304878	15.4	Chr7: 40.3014	-0.6424	40	3.54E-06	0.33908	0.2309	0.256
A_51_P291048	13629	100816	Eef2	eukaryotic tran	Chr10: 81.182	-0.071195122	18.4	ChrX: 146.966	0.6412	40	3.76E-06	0.57441	0.1515	0.46
A_51_P108935	381314	7118	Iars2	isoleucine-tRN	Chr1: 185.287	0.358219512	8.7	Chr16: 74.917	0.63939	40	4.11E-06	0	0.0787	0.702
A_51_P457446	56189	36381	Prodh2	proline dehydrc	Chr7: 30.5111	2.115853659	18.4	Chr7: 30.4357	0.63915	40	4.16E-06	0.44412	0.7028	6E-05
A_51_P264053	18701	31103	Pigf	phosphatidylino	Chr17: 86.997	-0.370731707	16.5	Chr7: 40.6057	-0.639	40	4.19E-06	0.56647	-0.0567	0.783
A_51_P336282	18166	700	Npy1r	neuropeptide Y	Chr8: 66.7058	-0.60497561	11.6	ChrX: 146.966	0.63887	40	4.22E-06	0.47744	-0.2597	0.2
A_51_P237766	386649	41114	p47		Chr5: 49.5532	0.149390244	8.2	Chr16: 86.457	0.63857	40	4.28E-06	0.54147	0	1
A_51_P314273	11545	1222	Adprt1	ADP-ribosyltra	Chr1: 180.600	-0.149219512	10.6	Chr18: 31.556	0.63846	40	4.31E-06	0.41936	0	1
A_51_P463452	14081	37561	Acsl1	fatty acid Coen	Chr8: 46.5344	2.278073171	11	Chr19: 54.544	0.63822	40	4.36E-06	0.58267	0.3087	0.125
A_51_P264748	99349	41704	Dnajc24	DnaJ heat sho	Chr2: 105.980	-0.047243902	11.5	Chr7: 40.6057	-0.6368	40	4.68E-06	0.41854	0	1
A_51_P386270	13105	86099	Cyp2d9	cytochrome P4	Chr15: 82.558	2.291292683	11.8	ChrX: 146.966	0.63642	40	4.76E-06	0.45481	0.6902	1E-04
A_51_P381657	230484	2528	Usp1	ubiquitin specif	Chr4: 98.9353	-0.533170732	11.3	Chr7: 82.4800	-0.6363	40	4.79E-06	0.467	-0.3038	0.131
A_51_P352402	67429	12128	Cml66	chronic myelog	Chr15: 44.375	0.582560976	8.9	Chr6: 100.868	-0.6356	40	4.95E-06	0.43827	0	1
A_51_P389516	69090	41079	1810015P0	RIKEN cDNA 1	Chr10: 60.064	-0.504365854	11.4	ChrX: 166.686	0.63539	40	5.01E-06	0	0	1
A_51_P398464	100383	32386	1110063F2	RIKEN cDNA 1	Chr4: 129.488	-0.13402439	10.3	Chr7: 88.6992	-0.6352	40	5.06E-06	0	0	1
A_51_P308628	269198	16453	A530083I02	RIKEN cDNA A	Chr1: 60.3316	-0.164560976	13	Chr17: 53.671	-0.6339	40	5.39E-06	0	0	1
A_51_P392963	11308	38053	Ssh3bp1	abl-interactor 1	ChrUn: 1.0000	-0.862073171	13.5	Chr16: 82.141	-0.6338	40	5.42E-06	0.36781	0	1
A_51_P216652	23967	8035	Odd1	odd-skipped re	Chr12: 9.5792	0.383878049	8.3	Chr7: 40.3014	0.63368	40	5.44E-06	0.47202	0	1
A_51_P174415	227298	11507	BC038286	hypothetical pr	Chr1: 75.1474	1.082292683	9.3	ChrX: 146.966	0.63332	40	5.53E-06	0.25808	0.325	0.105
A_51_P111192	13101	86099	Cyp2d10	cytochrome P4	Chr15: 82.402	1.837146341	11.9	Chr17: 68.799	0.6324	40	5.78E-06	0.35539	0.7469	1E-05
A_51_P275395	28199	11886	Wdr23	WD repeat dor	Chr14: 55.569	0.971536585	10.1	Chr7: 83.0379	0.63103	40	6.18E-06	0	0.1225	0.551
A_51_P478303	13105	86099	Cyp2d9	cytochrome P4	Chr15: 82.456	2.000341463	12.4	ChrX: 166.686	0.63001	40	6.48E-06	0.45481	0.6902	1E-04
A_51_P440936	16834	8411	Cog1	component of	Chr11: 113.66	0.276756098	10.7	Chr6: 80.2863	0.62977	40	6.56E-06	0.54112	-0.131	0.524
A_51_P196590	15107	55888	Hadhsc	L-3-hydroxyacy	Chr3: 131.233	1.067682927	10.4	Chr1: 188.518	0.62966	40	6.59E-06	0.58243	0	1
A_51_P241111	100210	7006	AI838661	expressed seq	Chr4: 133.589	0.624365854	13.1	Chr7: 46.4274	0.62867	40	6.91E-06	0	0	1
A_51_P374782	71889	56791	Epn3	RIKEN cDNA 2	Chr11: 94.491	0.240097561	11.5	Chr9: 108.514	0.62856	40	6.95E-06	0.31898	-0.224	0.271
A_51_P256202	64138	1022	Ctsz	cathepsin Z	Chr2: 174.427	1.257341463	10.9	Chr4: 74.3915	0.62843	40	6.99E-06	0.54897	0.2476	0.223
A_51_P133078	19155	36199	Psa	puromycin-sen	Chr11: 97.212	-0.59295122	9.7	Chr13: 83.736	0.62801	40	7.13E-06	0.52217	0	1
A_51_P220893	68942	101438	1190006E0	RIKEN cDNA 1	Chr16: 65.539	-0.741829268	8.6	Chr1: 188.518	-0.6277	40	7.23E-06	0.42742	0	1
A_51_P448488	17256	32110	Mea1	male enhance	Chr17: 46.682	0.258487805	14.1	Chr16: 86.161	0.62752	40	7.29E-06	0.32368	0.1053	0.609
A_51_P324640	77422	35412	C5orf63	glutaredoxin-lik	Chr18: 56.957	0.021682927	11.6	Chr7: 34.6988	-0.6272	40	7.41E-06	0	0	1
A_51_P286996	56188	3691	Fxyd1	FXYD domain-	ChrUn: 1.0000	1.75295122	13.8	Chr17: 53.671	0.62707	40	7.45E-06	0.41409	0.1963	0.336
A_51_P244453	226823	9395	Kctd3	potassium cha	Chr1: 188.971	-0.683463415	15.3	Chr2: 131.056	0.62686	40	7.52E-06	0.13896	-0.4995	0.009
A_51_P345643	21427	110905	Tcfl1	transcription fa	Chr3: 95.1227	0.144317073	10.1	ChrX: 146.966	0.62679	40	7.55E-06	0.35944	0	1
A_51_P486479	19345	55533	Rab5c	RAB5C, memb	Chr11: 100.715	0.238121951	8.3	ChrX: 166.686	0.62616	40	7.78E-06	0.35743	-0.1455	0.478
A_51_P461884			3110020O1	RIKEN cDNA 3	Chr1: 156.649	-1.540121951	9.9	Chr17: 57.353	-0.626	40	7.83E-06	0	0	1
A_51_P209518	14423	8469	Galnt1	UDP-N-acetyl-a	Chr18: 24.282	-0.163536585	9.6	Chr7: 40.6057	0.62599	40	7.84E-06	0.52171	-0.0711	0.73
A_51_P432651	16188	48088	Il3ra	interleukin 3 re	Chr14: 14.351	1.056390244	13.7	Chr6: 80.2863	0.62558	40	7.99E-06	0.41207	-0.0973	0.636
A_51_P354461	76795	28106	2700008N1	RIKEN cDNA 2	Chr11: 50.171	0.073146341	8	Chr19: 53.859	0.62482	40	8.28E-06	0	0	1
A_51_P345186	84505	32157	Setdb1	SET domain, b	Chr3: 95.3239	-0.034317073	12.9	ChrX: 164.079	0.62413	40	8.55E-06	0.43682	0.1244	0.545
A_51_P464158	66309	11944	2810021O1	RIKEN cDNA 2	Chr5: 38.2694	-0.789390244	9.6	Chr7: 24.9379	-0.624	40	8.59E-06	0	0	1

A_51_P279323	30795	1525	Fkbp3	FK506 binding	Chr12: 65.0624	-1.466560976	18.3	Chr7: 40.3014	-0.623	40	8.99E-06	0.37399	-0.0394	0.848
A_51_P157193	80837	56894	Rhoj	ras homolog ge	Chr12: 75.4013	-1.867073171	10.9	Chr6: 85.8175	-0.6229	40	9.06E-06	0.38194	-0.1738	0.396
A_51_P335583	216873	3595	Spag7	sperm associa	Chr11: 70.6646	0.635439024	8.7	ChrX: 146.966	0.62286	40	9.07E-06	0.32073	-0.0768	0.709
A_51_P407323	14067	104	F5	coagulation fac	Chr1: 164.211	2.844902439	9.7	Chr6: 100.868	0.62274	40	9.11E-06	0.6117	0.7254	3E-05
A_51_P315720	72654	41751	2700094L0	RIKEN cDNA 2	Chr9: 110.711	-0.481341463	8.7	Chr2: 122.558	0.62215	40	9.36E-06	0	0	1
A_51_P208638	67811	9201	Pdip38	polymerase de	Chr11: 78.521	1.644195122	7.6	Chr9: 108.514	0.62193	40	9.46E-06	0.58487	0	1
A_51_P184321	13722	31260	Scye1	small inducible	Chr3: 132.660	-0.482658537	17.2	Chr7: 40.6057	-0.6214	40	9.71E-06	0.58951	-0.2342	0.249
A_51_P224488	14241	48335	Foxl1	forkhead box L	Chr8: 121.128	1.254682927	9.2	Chr14: 103.56	0.62136	40	9.71E-06	0.53378	0.4172	0.034
A_51_P308557	103425	10604	3100002P1	RIKEN cDNA 3	Chr10: 81.486	0.84795122	11.3	Chr13: 46.752	0.62112	40	9.82E-06	0	0	1
A_51_P358225	56442	41334	Tde2	tumor differenti	Chr10: 57.515	-1.263365854	13.9	Chr6: 101.847	-0.6209	40	9.91E-06	0.36861	0	1
A_51_P176291	27055	31434	Fkbp9	FK506 binding	Chr6: 56.8792	-1.055804878	11.2	Chr7: 40.3014	-0.6208	40	9.96E-06	0.32646	-0.091	0.659
A_51_P341978	22200	2951	Ube1c	ubiquitin-activa	Chr6: 97.1842	-0.465853659	9.3	ChrX: 166.686	-0.6201	40	1.03E-05	0.41148	0	1
A_51_P152222	66743	10036	4931406I20	Rik	Chr4: 117.272	-0.177878049	8.2	Chr7: 40.3014	0.61997	40	1.03E-05	0.089465	0.0138	0.947
A_51_P187093	14548	7729	Gdap3	ganglioside-ind	Chr7: 54.4120	-0.639292683	12.9	Chr7: 40.6057	-0.6199	40	1.04E-05	0	0	1
A_51_P479902	216443	90878	Mars	methionine-tRN	Chr10: 127.296	1.074195122	8.1	Chr16: 89.885	0.61951	40	1.06E-05	0.39084	0.3131	0.119
A_51_P158007	97820	10720	Kiaa1191	brain-derived r	Chr13: 54.551	-2.127414634	11.9	Chr8: 36.5937	-0.6191	40	1.08E-05	0.27522	0	1
A_51_P168665	192159	4706	Prpf8	pre-mRNA pro	Chr11: 75.508	0.894804878	10	ChrX: 166.686	0.61889	40	1.09E-05	0.46786	0.1298	0.527
A_51_P228974	66627	32588	5730405M1	RIKEN cDNA 5	Chr5: 124.115	0.515463415	9.1	Chr17: 51.900	0.61882	40	1.09E-05	0	0	1
A_51_P300753	21355	37323	Tap2	transporter 2, A	Chr17: 34.214	0.589780488	11.2	Chr17: 53.538	0.61882	40	1.09E-05	0.37786	0.0387	0.851
A_51_P322396	105887	71100	AI746432	Mus musculus	Chr15: 9.3217	0.29697561	13.4	Chr7: 40.3014	0.61846	40	1.11E-05	0.33292	0	1
A_51_P199217	77644	11133	C330007P0	RIKEN cDNA (	ChrX: 36.8487	0.089195122	11.3	Chr7: 30.4357	-0.6181	40	1.13E-05	0	0.1627	0.427
A_51_P402435	68015	9457	2410002K2	RIKEN cDNA 2	Chr16: 4.0454	1.242243902	11.1	ChrX: 166.686	0.61778	40	1.14E-05	0.51965	0	1
A_51_P364890	116940	117928	Ncoa6ip	nuclear recept	Chr4: 3.61488	-0.315	12.2	Chr8: 10.5217	0.6169	40	1.19E-05	0.31536	0	1
A_51_P494567	227707	9551	BC005624	cDNA sequenc	Chr2: 30.9730	-0.205243902	13	ChrX: 146.966	0.61674	40	1.2E-05	0	-0.0567	0.783
A_51_P364694			--	Mus musculus	Chr11: 82.9646	-0.823146341	9.3	Chr12: 26.307	-0.6166	40	1.2E-05	0	0	1
A_51_P521128	56406	40920	Ncoa6	nuclear recept	Chr2: 155.390	-0.520146341	13.8	Chr17: 53.671	-0.6165	40	1.21E-05	0.48046	0.0771	0.708
A_51_P448778	22259	21165	Nr1h3	nuclear recept	Chr2: 91.1844	1.357146341	11.4	ChrX: 166.686	0.61622	40	1.23E-05	0.44114	0.4287	0.029
A_51_P118712	13353	4152	Dgcr6	DiGeorge synd	Chr16: 18.071	0.276439024	13.6	Chr11: 82.257	0.61616	40	1.23E-05	0.33472	0.1709	0.404
A_51_P390058			2510025K2	RIKEN cDNA 2	Chr14: 118.883	-0.233195122	8.3	Chr5: 13.9983	-0.6158	40	1.25E-05	0	0	1
A_51_P140311	14693	68451	Gnb2	guanine nucleo	Chr5: 137.528	0.188487805	8.4	Chr9: 97.3593	0.61548	40	1.27E-05	0.46045	-0.1944	0.341
A_51_P287026	56372	8606	Smacp	small acidic pr	Chr7: 116.105	-0.668219512	9.4	Chr6: 100.868	-0.6135	40	1.38E-05	0	0	1
A_51_P178575	67382	81801	Brd3	bromodomain (	Chr2: 27.4482	0.105146341	10.6	Chr9: 116.573	0.61247	40	1.45E-05	0.53919	-0.0134	0.948
A_51_P298097	74142	3521	Prss15	protease, serin	Chr17: 56.614	0.664463415	6.8	ChrX: 166.686	0.61234	40	1.46E-05	0.52762	0	1
A_51_P251325	30055	40846	Timm9	translocase of	Chr10: 80.900	-0.154512195	10.6	Chr6: 95.0735	0.61196	40	1.48E-05	0.30178	0.3527	0.077
A_51_P313292	66935	3589	Cir	CBF1 interactir	Chr5: 40.3298	-0.255121951	13	Chr4: 81.9586	-0.6117	40	1.5E-05	0.24509	0	1
A_51_P224505	12017	3190	Bag1	Bcl2-associate	Chr4: 40.9436	-0.257902439	15.8	Chr16: 86.161	0.61089	40	1.55E-05	0.56746	-0.1544	0.451
A_51_P387253	106947	44230	Slc39a3	solute carrier fa	Chr10: 81.029	0.076829268	8.7	Chr4: 150.309	0.6108	40	1.56E-05	0.579	-0.1114	0.588
A_51_P240329	67048	47796	2610030H0	RIKEN cDNA 2	ChrX: 71.8228	-0.432707317	12	Chr6: 101.847	-0.6105	40	1.58E-05	0	0.1795	0.38
A_51_P435809	23802	888	Amfr	autocrine motil	Chr8: 93.9719	0.461487805	10.7	Chr5: 13.9983	-0.6105	40	1.58E-05	0.48311	0.4394	0.025
A_51_P158598	217140	26698	Scrn2	DNA segment,	Chr11: 97.032	1.079219512	8	ChrX: 146.966	0.60977	40	1.63E-05	0	0.4193	0.033
A_51_P435333	69654	4667	2310042E0	dynactin 2 (p5	Chr10: 127.28	0.522365854	15.6	Chr16: 74.917	0.60975	40	1.63E-05	0.29655	0	1
A_51_P423041	214601	10525	Slc10a3	solute carrier fa	ChrX: 74.3692	-0.432658537	10.4	Chr7: 132.257	-0.6091	40	1.68E-05	0.21714	-0.1942	0.342
A_51_P117109	216136	68532	Ilvbl	ilvB (bacterial a	Chr10: 78.583	0.628073171	7.7	Chr2: 26.3683	0.60896	40	1.69E-05	0	-0.0631	0.76
A_51_P141390	17222	7414	Anapc1	anaphase pron	Chr2: 128.612	0.270365854	12.5	Chr11: 83.708	-0.6076	40	1.8E-05	0.28541	-0.1679	0.412
A_51_P152272	77038	8735	Zfp289	zinc finger prot	Chr2: 91.2761	1.196926829	10.5	Chr9: 103.925	0.60752	40	1.8E-05	0.35244	0.2938	0.145
A_51_P456136	72569	12471	2700023J0	RIKEN cDNA 2	Chr2: 69.6672	-0.81504878	11.4	Chr7: 40.3014	-0.6072	40	1.83E-05	0.23156	0	1
A_51_P244923	107242	12869	AI837181	expressed seq	Chr19: 5.4270	0.107634146	9.7	ChrX: 166.686	0.60711	40	1.83E-05	0.26462	-0.3462	0.083
A_51_P264884	231834	8338	B130023O1	RIKEN cDNA E	Chr5: 140.352	0.293195122	7.7	Chr19: 53.384	0.60711	40	1.83E-05	0	0	1
A_51_P264554	56433	9433	Vps29	vacuolar protei	Chr5: 122.363	-1.051902439	11.6	Chr12: 111.17	-0.6068	40	1.86E-05	0.32929	-0.0353	0.864
A_51_P309618	67008	10615	Yae1d1	Yae1 domain c	Chr3: 28.7636	0.167097561	13.5	Chr7: 40.3014	-0.6066	40	1.87E-05	0	0	1
A_51_P283876	68021	55812	Bphl	RIKEN cDNA 2	Chr13: 34.073	0.188585366	16.8	ChrX: 146.966	0.60651	40	1.88E-05	0	0.4331	0.027
A_51_P127456	232947	17851	Ppp1r37	protein phosph	Chr7: 19.5309	0.042731707	9.8	Chr13: 81.854	0.60598	40	1.93E-05	0	0	1
A_51_P384629	13033	55616	Ctsd	cathepsin D	Chr7: 142.376	-0.44104878	20.5	Chr7: 46.4274	0.60555	40	1.96E-05	0.51546	-0.1644	0.422
A_51_P409761	75616	90075	Smim15	small integral r	Chr13: 108.048	-0.775878049	8.1	Chr12: 108.37	-0.6053	40	1.98E-05	0	0	1
A_51_P363668	19820	7920	Ha1r	Hoxa1 regulate	ChrX: 103.957	-0.423292683	11.5	Chr9: 105.774	-0.6052	40	1.99E-05	0.33112	0	1
A_51_P358872	244667	10257	Disc1	disrupted in sc	Chr8: 125.155	2.096219512	12.4	Chr2: 58.0093	0.60502	40	2.01E-05	0.511	-0.0186	0.928
A_51_P213592	217827	41213	C14orf102	human chromo	Chr12: 100.13	0.037243902	13.2	Chr7: 40.6057	0.60478	40	2.03E-05	0	-0.1456	0.478
A_51_P136337	319625	71795	Galm	RIKEN cDNA A	Chr17: 80.184	1.707317073	10.8	ChrX: 146.966	0.60457	40	2.05E-05	0	0.3475	0.082
A_51_P325491	66124	26696	1110007C0	RIKEN cDNA 1	Chr7: 44.4715	0.263853659	11.8	Chr11: 62.251	0.60446	40	2.05E-05	0.24826	0	1
A_51_P161890	14132	3030	Fcgrt	Fc receptor, Ig	Chr7: 45.0951	1.379073171	10.5	Chr9: 105.774	0.60417	40	2.08E-05	0.54413	0.2814	0.164
A_51_P434979	74775	10011	Limr	lipocalin-intera	Chr15: 98.904	0.08797561	12.9	Chr7: 34.6988	0.60379	40	2.12E-05	0	0	1
A_51_P491437	224671	14995	Btbd9	BTB/POZ dom	Chr17: 30.274	0.067121951	11.2	Chr5: 97.8104	0.60351	40	2.14E-05	0.51692	0.0576	0.78
A_51_P322420	27058	37737	Srp9	signal recogniti	Chr2: 87.5265	0.079243902	11.9	Chr7: 68.5806	-0.6029	40	2.2E-05	0.27351	0.2339	0.25
A_51_P357313	65962	56962	Slc9a3r2	solute carrier fa	Chr17: 24.639	-0.437073171	10.8	Chr5: 100.212	0.60266	40	2.22E-05	0.32119	-0.074	0.719
A_51_P172801	76890	6272	0610016J1	RIKEN cDNA (	Chr3: 62.7624	0.331365854	14.6	Chr7: 68.1166	-0.6025	40	2.24E-05	0.53974	0	1
A_51_P311977	56449	2708	Csda	cold shock don	--	0.148390244	13.8	ChrX: 151.323	0.60246	40	2.24E-05	0.5023	-0.3403	0.089
A_51_P179663	14871	20235	Gstt1	glutathione S-t	Chr10: 75.784	1.456634146	10.7	Chr19: 53.384	0.60224	40	2.26E-05	0.62031	0.5168	0.007
A_51_P114287	66698		Cpsf6	cleavage and p	Chr10: 117.34	-0.374439024	13.8	Chr7: 44.8911	-0.6018	40	2.3E-05	0	-0.0337	0.87
A_51_P157033	226777	11669	C1orf115	human chromo	Chr1: 184.872	0.781097561	8.6	Chr9: 107.831	0.60173	40	2.31E-05	0	0	1
A_51_P359983	70497	9984	Rich1	homolog of rat	Chr7: 123.279	-0.745	11.2	Chr9: 106.081	-0.6013	40	2.35E-05	0.27178	0	1
A_51_P398164	77113	21416	Klhl2	kelch-like 2, Ma	Chr8: 64.7399	-0.441	10.3	Chr11: 59.006	-0.6012	40	2.36E-05	0.30761	0.2614	0.197
A_51_P219025	68980	15591	1500002B0	RIKEN cDNA 1	Chr16: 32.256	0.267926829	13	Chr17: 53.671	-0.6011	40	2.37E-05	0	0	1
A_51_P127957	67148	12088	2610204K1	RIKEN cDNA 2	Chr7: 81.7691	-0.347682927	11.1	Chr7: 40.3014	-0.601	40	2.39E-05	0.34843	-0.1234	0.548
A_51_P197354	93790	11368	Nipa2	non-imprinted i	Chr7: 55.9329	0.217219512	8.3	Chr7: 136.608	-0.6009	40	2.39E-05	0.36428	0.1646	0.422
A_51_P289836	63959	37985	Slc29a1	solute carrier fa	Chr17: 45.585	1.882170732	12.2	Chr6: 101.847	0.60023	40	2.46E-05	0.63522	0.4297	0.028
A_51_P242114	56407	9224	Trpc4ap	transient recep	Chr2: 155.634	0.644097561	10.5	Chr16: 89.885	0.59988	40	2.5E-05	0.29002	0.0403	0.845
A_51_P110395	235626	56493	BC031601	cDNA sequenc	Chr9: 110.618	-0.42404878	12	Chr7: 45.9995	-0.5991	40	2.58E-05	0.1816	0	1
A_51_P166682	18706	21249	Pik3ca	phosphatidylin	Chr3: 32.4561	-0.07897561	11.9	Chr10: 13.009	0.59875	40	2.62E-05	0.45684	-0.0934	0.65
A_51_P493537	14337	79330	Ftl2	ferritin light cha	Chr3: 95.9833	0.820463415	30.2	Chr7: 40.6057	0.59865	40	2.63E-05	0.46856	0.1013	0.622
A_51_P460760			C130099A0	hypothetical pr	Chr7: 30.3138	-0.183731707	10	Chr5: 14.3241	0.59847	40	2.65E-05	0	0	1
A_51_P282974	72039	10603	Mccc1	methylcrotonoy	Chr3: 35.9684	0.528878049	10.4	Chr7: 68.1166	0.59823	40	2.68E-05	0.43092	-0.1166	0.571
A_51_P440828	67456	6574	1200009B1	RIKEN cDNA 1	Chr6: 148.179	0.115829268	7.9	Chr12: 113.258	-0.5981	40	2.68E-05	0.41755	0	1
A_51_P290521	72139		2610044O1	hypothetical pr	Chr17: 94.815	-0.818560976	25.5	Chr7: 40.3014	-0.5981	40	2.69E-05	0	-0.322	0.109
A_51_P307779	12727	68207	Clcn4-2	chloride chann	ChrUn: 1.0000	0.106170732	14.5	Chr16: 74.917	0.59739	40	2.77E-05	0.41766	-0.0197	0.924

A_51_P127770	76332	7206	Cog2	component of (	Chr8: 124.546(	0.197804878	6	Chr14: 71.265	0.59725	40	2.79E-05	0	-0.1781	0.384
A_51_P239673	15452	56590	Hprt	hypoxanthine g	ChrX: 53.0215	-0.629219512	16	Chr6: 101.847	-0.5972	40	2.79E-05	0.41317	0	1
A_51_P499905	14886	7748	Gtf2i	general transcr	Chr5: 134.238	-0.235121951	6.7	Chr16: 89.885	0.59712	40	2.8E-05	0.55952	0.0559	0.786
A_51_P265685	68316	11475	0610008C0	RIKEN cDNA (	ChrX: 94.4169	-1.095097561	10.3	Chr6: 100.868	-0.597	40	2.82E-05	0.54186	0.0439	0.831
A_51_P233396	21770	37661	Ppp2r5d	protein phosph	Chr17: 46.683(	-0.261390244	8.7	Chr13: 52.770	0.59666	40	2.86E-05	0.38026	-0.0848	0.681
A_51_P173622	19247	2122	Ptpn11	protein tyrosine	Chr5: 121.130	-0.74704878	10.9	Chr18: 85.520	-0.5966	40	2.86E-05	0.35066	-0.1219	0.553
A_51_P106211	56752	55483	Aldh9a1	aldehyde dehy	Chr1: 167.364	1.163853659	11.9	Chr1: 171.219	0.59618	40	2.91E-05	0.37966	0.1786	0.383
A_51_P391445	15979	359	Ifngr	interferon gam	Chr10: 19.610	-1.667219512	8.7	Chr11: 59.110	-0.5961	40	2.93E-05	0.39641	0	1
A_51_P472405	54405	3337	Ndufa1	NADH dehydro	ChrX: 37.1898	-0.189487805	8.3	Chr7: 39.8192(	-0.5954	40	3.01E-05	0.42896	0.0428	0.836
A_51_P416278	243510	27813	A230058J2	hypothetical pr	Chr6: 83.1030(	0.464073171	8.5	Chr15: 73.540	0.59533	40	3.02E-05	0	0	1
A_51_P168865	224727	3409	Bat3	HLA-B-associa	Chr17: 35.146(	0.486317073	16.2	Chr16: 88.032	0.59528	40	3.03E-05	0.53931	-0.1448	0.48
A_51_P328828	66812	11049	8430432M1	RIKEN cDNA 8	Chr9: 57.4143(	0.326439024	15.9	Chr9: 110.798	0.59518	40	3.04E-05	0	0	1
A_51_P279127	214917	11398	BC008155	cDNA sequenc	Chr17: 25.790	-0.325731707	9.9	Chr1: 180.283	0.59509	40	3.05E-05	0	0	1
A_51_P104608	78416	4102	Rnase6	RIKEN cDNA 9	Chr14: 51.130	-2.615463415	10.3	Chr10: 127.49	-0.5946	40	3.11E-05	0.40006	-0.289	0.152
A_51_P344878	50492	55726	Thop1	thimet oligopep	Chr10: 81.081	-0.079829268	8.4	Chr16: 91.670	0.59443	40	3.13E-05	0.56445	-0.1904	0.352
A_51_P135423	12345	3620	Capzb	capping protein	Chr4: 139.291	0.073219512	11.2	Chr16: 76.657	0.59439	40	3.14E-05	0.42292	-0.2239	0.272
A_51_P236270	20452	4147	Siat8d		Chr1: 95.5878	-2.91695122	11.2	Chr11: 56.516(	-0.5942	40	3.16E-05	0.48664	0	1
A_51_P339962	244672	12366	Cwf19l2	RIKEN cDNA 3	Chr9: 3.47897	0.123390244	12.7	Chr16: 74.917	-0.594	40	3.18E-05	0	0.244	0.23
A_51_P266546	67306	9338	Zc2hc1a	zinc finger C2H	Chr3: 7.55362	-3.929390244	10.4	Chr3: 3.78541	-0.594	40	3.19E-05	0	0	1
A_51_P144940	67693	9498	2310003F1	RIKEN cDNA 2	Chr2: 121.458	-0.458487805	11.5	ChrX: 166.686	-0.5939	40	3.21E-05	0.35955	0.1206	0.557
A_51_P141860	103583	76444	Fbxw11	F-box/WD repe	Chr11: 32.746(	-1.107878049	14.9	Chr7: 68.5806	-0.5938	40	3.21E-05	0.36064	0.1954	0.339
A_51_P259415	70397	9890	1110020A0	RIKEN cDNA 1	Chr1: 16.6775	0.407536585	9.2	Chr6: 103.119	-0.5938	40	3.21E-05	0	0	1
A_51_P401683	107769	11305	Tm6sf1	transmembran	Chr7: 81.8837	-2.265780488	6.9	Chr11: 103.97	-0.5938	40	3.22E-05	0.33052	-0.2888	0.152
A_51_P190159			--		Chr2: 34.4598	0.388073171	8.7	Chr7: 24.9379	0.59359	40	3.24E-05	0	0	1
A_51_P180904	18553	20569	Pace4	paired basic ar	Chr7: 66.0476(	0.726487805	11.2	Chr8: 17.3288	0.59308	40	3.31E-05	0.40322	0	1
A_51_P458796	240186	18695	B830013J0	RIKEN cDNA E	Chr18: 5.2105	0.403926829	10.2	Chr17: 66.436	0.59249	40	3.39E-05	0	0	1
A_51_P411019	69470	9877	2310003P1	RIKEN cDNA 2	Chr2: 127.260(	-0.428585366	15.5	Chr7: 40.6057	0.59236	40	3.41E-05	0.42248	0	1
A_51_P317695	22065	20708	Trpc3	transient recep	Chr3: 36.6206	-3.484878049	9.1	Chr7: 144.447	-0.5924	40	3.41E-05	0.44717	-0.0724	0.725
A_51_P265405	101489	23331	Ric8a	RIC8 guanine r	Chr7: 140.863(	-0.85395122	15	Chr7: 40.9251	-0.5923	40	3.42E-05	0.45818	0	1
A_51_P168506	108899	52179	2700081O1	RIKEN cDNA 2	ChrUn: 1.0000	-0.150682927	7.9	Chr3: 57.8232	-0.5922	40	3.43E-05	0	0	1
A_51_P427412	259037	27332	Olfr711		Chr7: 106.972	0.655292683	10.7	Chr19: 53.859	0.59211	40	3.45E-05	0	0.1501	0.464
A_51_P414168	19823	84476	Rnf7	ring finger prot	Chr9: 96.4714	-0.710658537	6.8	Chr6: 148.743	-0.592	40	3.46E-05	0.48084	-0.4307	0.028
A_51_P369106	19334	10782	Rab22	RAB22, memb	Chr2: 173.688	0.426585366	11.8	Chr7: 35.3398	0.59165	40	3.51E-05	0.27444	0	1
A_51_P403193	74762	17780	1200011I03	RIKEN cDNA 1	Chr17: 29.832	1.776756098	8	Chr12: 111.17	0.59138	40	3.55E-05	0.36976	0	1
A_51_P407977	235606	1240	Apeh	acylpeptide hy	Chr9: 108.085(	0.175585366	9.7	Chr1: 188.042	0.59103	40	3.6E-05	0.36485	0.2092	0.305
A_51_P314019	23825	2866	Banf1	barrier to autoi	Chr19: 5.3650	-0.312439024	12.4	ChrX: 146.966	0.59061	40	3.66E-05	0.43577	-0.1913	0.349
A_51_P268977	22215	7988	Ube3a	ubiquitin protei	Chr7: 59.3048	-0.297560976	14.1	Chr7: 39.8192(	-0.5905	40	3.69E-05	0.50852	-0.2995	0.137
A_51_P150984	208643	110725	E030015G2	RIKEN cDNA E	Chr16: 20.679	0.907585366	9.5	Chr7: 35.3398	0.59043	40	3.69E-05	0.38198	0	1
A_51_P309293	230967	44919	--	Mus musculus,	Chr4: 154.008	-1.706	9.9	Chr2: 66.9678	-0.5904	40	3.7E-05	0	0	1
A_51_P333885	56258	23165	Hnrph2	heterogeneous	Chr4: 143.218	-1.089585366	9.2	Chr7: 68.5806	-0.5896	40	3.81E-05	0.32253	0.0377	0.855
A_51_P102631	66226	5436	Trappc2	trafficking prote	ChrX: 166.452	-1.49102439	19.9	Chr7: 40.3014	-0.5893	40	3.87E-05	0.35884	-0.1323	0.519
A_51_P202434	231887	8927	Pdap1	PDGFA associ	Chr7: 122.115	0.237317073	11.5	Chr6: 34.5075	0.58927	40	3.87E-05	0	0.1877	0.359
A_51_P517138	27398	69198	Mrpl2	mitochondrial r	Chr17: 46.648	0.901658537	11.2	Chr10: 84.913	0.5885	40	3.99E-05	0.29046	0.2161	0.289
A_51_P421882	76357	6096	2610027O1	RIKEN cDNA 2	Chr12: 73.280	0.205926829	13	Chr17: 51.198	-0.5885	40	4E-05	0	0	1
A_51_P239125	320422		9930020M1	RIKEN cDNA 9	Chr9: 71.7216	0.351365854	8.7	Chr1: 171.051	0.58837	40	4.01E-05	0	0	1
A_51_P423119	14466	68040	Gba	glucosidase, be	Chr3: 89.2083	0.11997561	13.9	Chr2: 142.704(	0.58834	40	4.02E-05	0.53859	-0.0754	0.714
A_51_P504582	69742	12328	Blp1	BBP-like protei	Chr8: 25.0231	-0.632780488	13.1	Chr7: 83.0379	-0.5883	40	4.03E-05	0	0	1
A_51_P217750	56395	5099	Pl6	PL6 protein	Chr9: 107.538	0.555341463	8.7	Chr6: 85.8175	0.58826	40	4.03E-05	0.21088	0	1
A_51_P282902	328329	42094	4930420O1	RIKEN cDNA 4	Chr13: 102.85	-0.147536585	8.2	Chr3: 142.634	-0.588	40	4.07E-05	0	0	1
A_51_P415220	22401	32545	Wig1	wild-type p53-i	Chr3: 32.3349(	-1.954878049	10.2	Chr18: 51.019(	-0.588	40	4.07E-05	0.42086	-0.2735	0.176
A_51_P502892	18029	4088	Nfic	nuclear factor I	Chr10: 81.403	1.159268293	12	Chr9: 113.291	0.58795	40	4.08E-05	0.51798	0.1104	0.591
A_51_P393524	19826	40648	Rnps1	ribonucleic acic	Chr6: 7.98185	-0.924804878	13	Chr17: 48.599	-0.5878	40	4.1E-05	0.35204	-0.3049	0.13
A_51_P197259	12468	4694	Cct7	chaperonin sub	Chr6: 85.4680	-0.365731707	11.8	Chr6: 85.8175	0.58776	40	4.11E-05	0.44324	-0.3354	0.094
A_51_P304500	21356	2401	Tapbp	TAP binding pr	Chr17: 33.929(	-0.061268293	11.1	Chr12: 111.17	0.58768	40	4.12E-05	0.37931	0.0919	0.655
A_51_P481989	240614	18935	Ranbp6	hypothetical pr	Chr19: 29.808	-0.383731707	10.2	Chr7: 39.8192(	-0.5874	40	4.17E-05	0	0.2453	0.227
A_51_P159189	16325	21142	Inhbc	inhibin beta-C	Chr10: 127.357	1.269121951	8.4	Chr10: 121.82	0.58729	40	4.19E-05	0.46467	0.8913	1E-09
A_51_P510957	11773	3000	Ap2m1	adaptor protein	Chr2: 49.3093	0.446097561	12.6	ChrX: 166.686	0.58693	40	4.25E-05	0.35694	0.2439	0.23
A_51_P176352	29811	22785	Ndr2	N-myc downstr	Chr14: 51.905	1.29702439	12.1	Chr11: 90.803	0.58692	40	4.25E-05	0.58263	0	1
A_51_P140141	66245	40827	Hspbp1	hsp70-interacti	Chr7: 4.66075(	0.506243902	8.4	Chr11: 56.516(	0.58678	40	4.27E-05	0.44007	0	1
A_51_P484254	110821	236	Pcca	propionyl-Coer	Chr14: 122.876	0.843512195	7	Chr3: 38.1068	0.58667	40	4.29E-05	0.62271	0.2815	0.164
A_51_P327937	19725	30980	Rfx2	vregulatory fac	Chr17: 56.776	0.267243902	8.2	ChrX: 146.966	0.58653	40	4.32E-05	0.39489	-0.3301	0.1
A_51_P122170	54150	117981	Rdh7	retinol dehydro	Chr10: 127.884	2.020219512	12.1	Chr4: 114.835	0.58615	40	4.38E-05	0.39589	0.8031	8E-07
A_51_P377547	21353	3081	Tank	TRAF family m	Chr2: 61.6535	-0.295390244	11.3	Chr6: 112.850	-0.5848	40	4.62E-05	0.37638	-0.1108	0.59
A_51_P246527	22019	2471	Tpp2	tripeptidyl pept	Chr1: 44.0021	0.61895122	10.1	ChrX: 167.303	-0.5847	40	4.65E-05	0.51512	-0.3337	0.096
A_51_P104128	18245	7455	Oaz1	ornithine decar	Chr10: 80.828	0.208097561	11	Chr11: 90.803	0.58456	40	4.67E-05	0.5331	0.2134	0.295
A_51_P479715	26908	99414	Eif2s3y	eukaryotic tran	ChrY: 1.0284	0.695560976	10.6	Chr8: 127.830	-0.5845	40	4.68E-05	0.33553	-0.2235	0.272
A_51_P463941	26356	40119	Ing1	inhibitor of grov	Chr8: 11.5619	0.015317073	8.6	Chr7: 35.3398	0.58422	40	4.73E-05	0.47521	-0.2181	0.284
A_51_P287926	75734	87000	5230400G2	RIKEN cDNA 5	Chr1: 82.7522	-2.159439024	12.8	Chr16: 89.885	-0.5841	40	4.75E-05	0.33948	-0.0141	0.946
A_51_P509384	237320	23369	Aldh8a1	aldehyde dehy	Chr10: 21.396	0.982365854	7.4	Chr14: 58.815	0.58403	40	4.77E-05	0.37369	0.6328	5E-04
A_51_P232508	219024	10279	BC039161	cDNA sequenc	Chr14: 50.927	-0.253146341	11.7	Chr6: 10.7838	0.58397	40	4.78E-05	0.30858	0	1
A_51_P332676	72960	43082	2900052H0	RIKEN cDNA 2	Chr15: 75.657	1.020439024	10.1	Chr18: 85.799	0.58386	40	4.8E-05	0.47398	0	1
A_51_P188135	69754	8136	Fbxo7	RIKEN cDNA 2	Chr10: 86.048(	-0.002341463	10.4	Chr2: 11.7858	0.58296	40	4.97E-05	0.31711	-0.0102	0.961
A_51_P439612	56812	4902	Dnajb10	DnaJ (Hsp40) I	Chr1: 75.2452	0.349097561	11.5	Chr7: 83.0379	0.58269	40	5.03E-05	0.3421	0.2188	0.283
A_51_P356562	97827	10066	C85658	expressed seq	Chr12: 80.498(	-1.45704878	17.2	Chr6: 85.8175	-0.5825	40	5.06E-05	0	0	1
A_51_P304707	67939	12215	2010316F0	RIKEN cDNA 2	Chr11: 29.513	0.70097561	11.5	ChrX: 164.079	-0.5823	40	5.1E-05	0	0.0743	0.718
A_51_P512364	233908	3639	Fus	fusion, derived	Chr5: 148.183	-0.301609756	14.5	Chr9: 107.831	0.58147	40	5.28E-05	0.52558	-0.2631	0.194
A_51_P131890	13684	84699	Eif4e	eukaryotic tran	Chr3: 138.556	-0.646829268	9.2	Chr18: 73.844	-0.5813	40	5.3E-05	0.44715	-0.1994	0.329
A_51_P364421	20955	4121	Sybl1	synaptobrevin I	ChrUn: 1.0000	0.624804878	11.5	Chr9: 116.573	-0.5808	40	5.41E-05	0.31842	0.245	0.228
A_51_P283083	74252	10015	Arcp	armadillo repea	Chr3: 19.1321	-0.299317073	14.7	Chr7: 40.3014	-0.5808	40	5.41E-05	0.25863	0	1
A_51_P207962	19185	55691	Psmd4	proteasome (pi	Chr3: 95.0345	0.70802439	14.7	Chr7: 68.1166	0.58081	40	5.41E-05	0.47121	0.1563	0.446
A_51_P219266	71753	12408	Tmprss6	type II transme	Chr15: 78.439(	2.683829268	10.1	ChrX: 164.079	0.58079	40	5.42E-05	0.5028	0.8758	5E-09
A_51_P334619	22640	32132	Zfp1	zinc finger prot	Chr8: 111.670	-0.428073171	16.3	Chr7: 66.4597	-0.5806	40	5.46E-05	0.31486	-0.2149	0.292
A_51_P164954	19727	2760	Rfxank	regulatory facto	Chr8: 70.1353	1.523414634	11	Chr12: 111.17	0.58041	40	5.5E-05	0.25909	0.0428	0.836
A_51_P193851	70052	3446	Prpf4	PRP4 pre-mRN	Chr4: 62.4235	0.260097561	11.6	Chr15: 57.160	0.58032	40	5.52E-05	0	0.2417	0.234

A_51_P328760	70584	4300	Pak4	p21 (CDKN1A)	Chr7: 28.5589	-0.015317073	11.9	Chr8: 7.70108	0.58024	40	5.54E-05	0.52223	-0.0895	0.664
A_51_P140690	20262	7528	Stmn3	stathmin-like 3	Chr2: 181.3066	-2.532487805	10.8	Chr6: 86.6297	0.58021	40	5.54E-05	0.37566	0.0277	0.893
A_51_P143459			Tomm20	translocase of	Chr8: 126.9345	-0.764756098	11.6	Chr7: 83.0379	-0.5801	40	5.57E-05	0	0.2082	0.307
A_51_P155303	68731	11725	1110032A1	RIKEN cDNA 1	Chr18: 80.1927	1.008170732	12.5	Chr7: 68.5806	0.58003	40	5.58E-05	0	0.1521	0.458
A_51_P443412	64706	11224	Scube1	signal peptide,	Chr15: 83.6059	0.011780488	10.7	Chr10: 123.61	0.5791	40	5.79E-05	0.49881	-0.0617	0.765
A_51_P490767	16548	38187	Khk	ketohexokinas	Chr5: 30.9305	1.185756098	9.8	Chr10: 64.710	0.57903	40	5.8E-05	0.7055	0.5166	0.007
A_51_P341324	56444	10220	Actr10	ARP10 actin-re	Chr12: 70.962	-0.552341463	12.1	Chr11: 106.66	-0.579	40	5.81E-05	0.23398	-0.1636	0.425
A_51_P319513	21762	2101	Psmd2	proteasome (pi	Chr16: 20.661	0.232756098	9.8	Chr16: 86.457	0.57857	40	5.91E-05	0.35346	0.0259	0.9
A_51_P355375	59026	45994	Huwe1	HECT, UBA ar	ChrX: 151.934	-0.610731707	16.4	Chr17: 51.900	-0.5782	40	6E-05	0.44168	-0.3397	0.09
A_51_P226853	106039	39250	Gga1	golgi associate	Chr15: 78.894	0.236146341	13	Chr6: 101.847	0.57774	40	6.1E-05	0.32542	-0.3028	0.133
A_51_P383001	17286	4330	Meox2	mesenchyme h	Chr12: 37.179	-2.034097561	8.7	Chr8: 7.70108	-0.5777	40	6.12E-05	0.41553	-0.1802	0.378
A_51_P478353	226101	40882	Fer1l3	fer-1-like 3, my	Chr19: 37.899	-2.686341463	9.3	Chr19: 48.373	-0.5776	40	6.12E-05	0.50206	-0.2136	0.295
A_51_P158628	26417	55682	Mapk3	mitogen activa	Chr7: 126.765	-0.230658537	9.6	Chr9: 40.4608	0.57756	40	6.14E-05	0.39219	-0.1904	0.352
A_51_P519756	72296	104162	2210403N0	RIKEN cDNA 2	Chr3: 89.0840	-0.508902439	13.2	Chr11: 76.947	0.57752	40	6.15E-05	0.2336	0	1
A_51_P483938	13401	22559	Dmwd	dystrophia myc	Chr7: 19.0823	0.377439024	15.1	Chr7: 40.0318	0.57706	40	6.26E-05	0.52429	0.1212	0.555
A_51_P119026	70646	17947	Naa30	N(alpha)-acety	Chr14: 49.190	-0.015292683	10.3	Chr14: 39.148	-0.5769	40	6.29E-05	0	0	1
A_51_P281593	71910	100569	2310022A0	RIKEN cDNA 2	Chr8: 25.7247	0.060926829	6	Chr10: 17.943	-0.5768	40	6.33E-05	0	0	1
A_51_P370466	76025	69460	Cant1	calcium activat	Chr11: 118.41	0.408756098	10	Chr5: 97.8104	0.57674	40	6.34E-05	0.43524	-0.1002	0.626
A_51_P114307	19063	7488	Ppt	palmitoyl-prote	Chr4: 122.857	-1.082195122	9.1	Chr12: 113.25	-0.5762	40	6.47E-05	0.58194	0	1
A_51_P487086			--	Mus musculus	Chr11: 65.021	-0.03595122	10.1	Chr12: 26.307	-0.5761	40	6.5E-05	0	0	1
A_51_P120859	322305		Laptm4a	lysosomal-ass	Chr12: 8.9386	-1.19395122	13	Chr6: 101.847	-0.5761	40	6.5E-05	0	0.1286	0.531
A_51_P399625	12793	4219	Cnih	cornichon hom	Chr14: 46.775	0.031560976	19.4	Chr7: 39.8192	-0.576	40	6.52E-05	0.30344	0.159	0.438
A_51_P237002	17931	1855	Ppp1r12a	protein phosph	Chr10: 108.279	-1.175902439	13.4	Chr16: 74.917	-0.5753	40	6.7E-05	0.50529	-0.1702	0.406
A_51_P141836	100763	8783	Ube3c	expressed seq	Chr5: 29.6758	-0.582292683	13.1	Chr9: 108.514	-0.5753	40	6.7E-05	0	0.0988	0.631
A_51_P140211	78330	10885	1500032D1	RIKEN cDNA 1	Chr17: 31.528	0.420317073	12	Chr19: 58.711	0.57518	40	6.73E-05	0	0.1945	0.341
A_51_P210809	67561	10830	8430408H1	RIKEN cDNA 8	Chr9: 119.925	0.183926829	12.7	Chr17: 51.198	-0.575	40	6.78E-05	0.40644	0	1
A_51_P457584	266690	69207	Ncb5or	NADPH cytoch	Chr4: 18.8437	-0.207146341	10.2	Chr11: 29.556	-0.5748	40	6.82E-05	0.63896	0	1
A_51_P361580	19326	68691	Rab11b	RAB11B, mem	Chr19: 7.3974	-0.108365854	8.9	Chr12: 113.25	0.5741	40	7.01E-05	0.38062	-0.1658	0.418
A_51_P444041	73681	6876	2410075D0	RIKEN cDNA 2	Chr10: 30.534	0.00204878	19.2	Chr7: 40.3014	-0.574	40	7.03E-05	0	0	1
A_51_P392147	67439	5738	Xab2	RIKEN cDNA (	Chr8: 3.61018	0.076317073	8.8	Chr18: 25.697	0.57396	40	7.05E-05	0.38951	0	1
A_51_P348057	68299	6264	3100002B0	RIKEN cDNA 3	Chr11: 76.047	0.496292683	12.4	Chr16: 89.885	0.57387	40	7.08E-05	0.43653	0	1
A_51_P459538	13194	1448	Ddb1	damage specif	Chr19: 10.627	0.454512195	11.3	Chr7: 66.4597	0.57382	40	7.09E-05	0.45182	-0.082	0.691
A_51_P509140			U2af1l4	expressed seq	Chr7: 30.5645	0.118341463	13.7	Chr7: 24.9379	0.57363	40	7.14E-05	0	0.065	0.752
A_51_P326179	233103	8795	KIAA0355	KIAA0355 prot	Chr7: 34.2367	-1.18697561	13.5	Chr6: 85.8175	-0.5735	40	7.19E-05	0	0	1
A_51_P391769	73340	8620	Nptxr	Mus musculus	Chr15: 79.8263	-0.260756098	9.5	Chr2: 149.665	0.57336	40	7.22E-05	0.33326	-0.3266	0.103
A_51_P450628	22225	55758	Usp5	ubiquitin specif	Chr6: 124.815	0.186487805	9.9	Chr7: 24.9379	0.57324	40	7.25E-05	0.47452	0.1696	0.407
A_51_P436717	20624	3133	Snrp116	U5 small nucle	Chr11: 102.838	0.446097561	8.5	Chr4: 58.3740	0.57315	40	7.27E-05	0.25592	0	1
A_51_P330717	20747	68354	Spop	speckle-type P	Chr11: 95.492	0.125756098	12.7	Chr11: 107.13	0.57299	40	7.32E-05	0.4316	-0.1234	0.548
A_51_P511060	78752	23109	Galnact2	chondroitin sul	Chr6: 118.107	-0.787780488	12	Chr10: 30.710	-0.5729	40	7.35E-05	0.53214	0.3332	0.096
A_51_P314111	101739	13242	Psip1	PC4 and SFRS	Chr4: 83.4557	-0.727414634	13.3	Chr16: 74.917	-0.5727	40	7.39E-05	0.61791	-0.0821	0.69
A_51_P159673	56440	99716	Snx1	sorting nexin 1	Chr9: 66.0881	-2.164097561	13.8	Chr7: 40.3014	-0.5726	40	7.44E-05	0.41994	-0.5247	0.006
A_51_P397176	381318	22898	4833432M1	Mus musculus	Chr1: 191.076	-0.059634146	6.4	Chr10: 127.49	-0.5723	40	7.5E-05	0	0	1
A_51_P210470	67681	8566	Mrpl18	mitochondrial r	Chr17: 12.911	-0.420902439	11.9	Chr8: 27.6171	-0.5723	40	7.51E-05	0.32451	0.035	0.865
A_51_P281612	259086	64952	Olfr609		Chr7: 103.492	1.315609756	8.8	ChrX: 153.551	0.57224	40	7.53E-05	0	0.1446	0.481
A_51_P413597	66011	36409	Ranbp17	RAN binding p	Chr11: 33.212	0.45695122	8.1	Chr6: 98.3085	0.5722	40	7.54E-05	0.31035	0.0173	0.933
A_51_P325591	66421	11968	C1orf52	human chromo	Chr3: 145.944	-0.972463415	10.9	Chr19: 52.801	-0.5718	40	7.65E-05	0	-0.349	0.081
A_51_P300806	21898	41317	Tlr4	toll-like recepto	Chr4: 66.8426	-1.159707317	13.5	Chr7: 40.9251	-0.5714	40	7.76E-05	0.36719	-0.2812	0.164
A_51_P416591	110611	38035	Hdlbp	high density lip	Chr1: 93.4123	1.293268293	11.7	Chr6: 16.0610	0.57121	40	7.83E-05	0.47609	-0.0857	0.677
A_51_P258138	66231	11821	1500006O0	RIKEN cDNA 1	Chr14: 13.949	-0.488121951	11.7	Chr11: 79.252	-0.5709	40	7.91E-05	0.35517	0	1
A_51_P333460	71398	11856	5430427O1	RIKEN cDNA 5	ChrX: 85.8889	-2.102780488	6.9	Chr10: 127.00	-0.5709	40	7.91E-05	0	-0.1532	0.455
A_51_P267370	64294	11186	Itm2c	integral membr	Chr1: 85.9080	-1.234536585	14.3	ChrX: 166.686	0.57088	40	7.92E-05	0.45625	0	1
A_51_P434261	68137	86772	Kdelr1	KDEL (Lys-Asp	Chr7: 45.8834	0.572853659	10.8	Chr6: 100.868	0.57083	40	7.94E-05	0.33545	0.0923	0.654
A_51_P385086	21832	398	Thpo	thrombopoietin	Chr16: 20.728	1.704219512	10.9	Chr7: 83.0379	0.57055	40	8.02E-05	0.52876	0	1
A_51_P186161	67702	18337	1600023E1	RIKEN cDNA 1	Chr1: 39.5513	0.724512195	13.2	Chr11: 76.947	-0.5704	40	8.07E-05	0.29878	0	1
A_51_P124550	70335	76467	Dp1l1	deleted in poly	Chr10: 80.336	2.411121951	12.7	Chr16: 89.885	0.57034	40	8.09E-05	0.33424	0	1
A_51_P321651	102122	11797	2310065K2	RIKEN cDNA 2	Chr8: 94.5752	-0.128634146	13.7	Chr6: 85.8175	0.56998	40	8.2E-05	0	-0.2422	0.233
A_51_P407406	17274	100934	Mel	cell line NK14	Chr8: 72.1763	0.833536585	18.5	Chr8: 75.1270	0.56973	40	8.27E-05	0.38847	0	1
A_51_P141630	244631	48461	Pskh1	serine/threonin	Chr8: 105.931	0.811463415	9.4	Chr9: 40.4608	0.56943	40	8.37E-05	0.14827	0.2685	0.185
A_51_P135322	54633	4172	Pqbp1	polyglutamine	ChrX: 7.89521	0.189317073	11.1	Chr4: 74.3915	0.56934	40	8.4E-05	0.48461	0.1764	0.389
A_51_P237879	71096	56834	Sntg1	syntrophin, gar	Chr1: 8.41428	0.84004878	8.2	Chr6: 100.868	0.56843	40	8.69E-05	0.17769	0.119	0.563
A_51_P242918	382137	19813	LOC382137	RIKEN cDNA 1	Chr9: 50.7721	0.254097561	12.8	Chr6: 85.8175	-0.5683	40	8.74E-05	0	0	1
A_51_P442445	56079	77850	Astn2	astrotactin 2	Chr4: 65.3811	0.179341463	10.9	Chr5: 13.9983	0.56799	40	8.83E-05	0.38816	-0.0209	0.919
A_51_P244950	64705	20359	Dpys	dihydropyrimidi	Chr15: 39.783	2.606707317	12.8	Chr9: 108.514	0.5677	40	8.93E-05	0.51836	0.3241	0.106
A_51_P377004	226422	20842	Rab7l1	RAB7, membe	Chr1: 131.872	0.244	13.2	Chr7: 68.1166	-0.5677	40	8.94E-05	0.19585	0.1366	0.506
A_51_P452207	17129	4313	Smad5	MAD homolog	Chr13: 56.739	0.06104878	10.9	Chr2: 125.479	0.56728	40	9.07E-05	0.38336	-0.096	0.641
A_51_P139244	67248	84568	Rpl39	ribosomal prote	Chr2: 152.802	-1.465609756	16.8	Chr7: 40.3014	-0.5671	40	9.12E-05	0.27391	-0.1052	0.609
A_51_P380255	74026	32698	Msl1	male-specific l	Chr11: 98.806	-0.24202439	12	Chr8: 113.712	0.56677	40	9.24E-05	0.31747	-0.1627	0.427
A_51_P513571	234671	71115	Ces2	carboxylestera	Chr8: 104.871	1.707756098	11.5	Chr5: 14.3241	0.56648	40	9.34E-05	0.63409	0.0572	0.781
A_51_P489845	18046	7440	Nfyc	nuclear transcr	Chr12: 7.8601	0.240853659	9.5	Chr7: 3.70675	0.56629	40	9.41E-05	0.3683	-0.1828	0.371
A_51_P435317			Ap1s2		ChrX: 163.929	-1.316682927	13.5	Chr4: 20.0330	-0.5662	40	9.43E-05	0	-0.1768	0.388
A_51_P502133	26561	3424	Mmp23	matrix metallop	Chr4: 155.651	0.575	8.2	Chr7: 68.5806	0.56598	40	9.52E-05	0.29228	-0.1446	0.481
A_51_P341369	66943	32623	2310009N0	RIKEN cDNA 2	Chr18: 80.292	1.450829268	10	Chr7: 83.0379	0.56582	40	9.57E-05	0	0	1
A_51_P515482	56447	9366	Copz1	coatomer prote	Chr15: 103.29	1.076878049	9.6	Chr11: 56.516	0.56581	40	9.57E-05	0.18329	0.3965	0.045
A_51_P509941	399244		Psmc6	proteasome (pi	Chr14: 45.349	0.210829268	9	Chr5: 90.4962	-0.5658	40	9.58E-05	0	-0.1817	0.374
A_51_P381122	17230	84826	Mcpt7	mast cell prote	Chr17: 25.343	0.137878049	12.5	Chr6: 4.15774	0.56536	40	9.73E-05	0	0	1
A_51_P354433	56031	38142	Ppie	peptidylprolyl is	Chr4: 123.130	0.135341463	9.9	Chr12: 99.580	0.56508	40	9.84E-05	0.23084	0.3153	0.117
A_51_P174396	26926	3100	Pdcd8	programmed c	ChrX: 48.4846	1.393926829	15.2	ChrX: 146.966	0.56504	40	9.85E-05	0.55051	0	1
A_51_P220934	69137	45982	2200002K0	RIKEN cDNA 2	Chr9: 15.2588	-0.03595122	12.4	Chr7: 40.3014	0.5646	40	0.0001	0	-0.1989	0.33
A_51_P159042	14941	62159	Gzmd	granzyme D	Chr14: 56.130	1.250268293	8.8	Chr10: 123.61	0.56444	40	0.000101	0.36877	-0.0594	0.773
A_51_P291339	20833	110735	Ssrp1		Chr2: 85.0468	-0.688341463	9.5	Chr1: 188.518	0.56428	40	0.000101	0.36383	-0.0587	0.776
A_51_P224801	16621	68097	Klkb1	kallikrein B, pla	Chr8: 45.2723	2.44302439	10.9	ChrX: 146.966	0.56427	40	0.000101	0.56052	0.8787	4E-09
A_51_P470311	73739	12514	1110014P0	RIKEN cDNA 1	Chr15: 79.667	-0.484682927	11.3	Chr1: 171.051	0.56418	40	0.000102	0.45368	0	1
A_51_P497463	21945	7980	Dedd	death effector	Chr1: 171.341	0.606341463	20.2	ChrX: 146.966	0.56413	40	0.000102	0.38749	-0.2966	0.141
A_51_P149775	69019	40915	1810004F2	signal peptidas	Chr14: 31.000	-0.469585366	8.2	Chr4: 114.835	-0.564	40	0.000102	0.38219	0	1

A_51_P179809	5332		Plcb4	phospholipase	Chr2: 136.0144	-2.75597561	10.1	Chr10: 113.399	-0.5638	40	0.000103	0	-0.0509	0.805
A_51_P140347	240215	23732	Slc4a9	RIKEN cDNA [	Chr18: 36.5397	1.939097561	9.2	Chr2: 58.00935	0.56339	40	0.000105	0.31673	-0.0222	0.914
A_51_P105515	67242	11711	Gemin6	gem (nuclear c	Chr6: 117.8092	0.30502439	12.1	Chr4: 114.835	-0.5633	40	0.000105	0.21166	-0.0091	0.965
A_51_P480363	70093	9730	2310012M1	RIKEN cDNA 2	Chr3: 89.78048	-0.078414634	10.2	Chr11: 90.803	0.56326	40	0.000105	0.41609	0	1
A_51_P134676	225432	35410	AI043120	expressed seq	Chr18: 42.3240	0.228195122	10.6	Chr11: 107.96	0.56323	40	0.000105	0.34883	0	1
A_51_P378079	14265	1531	Fmr1	fragile X menta	ChrX: 68.7176	-0.420463415	14.5	Chr7: 40.6057	-0.5632	40	0.000105	0.33922	-0.081	0.694
A_51_P374453	209318	3046	Gps1	G protein pathv	Chr11: 120.788	0.003536585	10.8	Chr12: 28.8962	0.56317	40	0.000106	0.369	0.0361	0.861
A_51_P162886			BF784370	Mus musculus,	ChrUn: 1.0000	0.396317073	14.6	ChrX: 146.966	0.56312	40	0.000106	0	0	1
A_51_P227202	77381		C030014I23	RIKEN cDNA (	Chr9: 44.4789	1.838487805	9.4	ChrX: 153.551	0.5631	40	0.000106	0	-0.3498	0.08
A_51_P394149	69562	135707	Cdk13	cyclin-depende	Chr13: 17.7175	-0.096487805	14.4	Chr7: 40.3014	-0.5628	40	0.000107	0.27682	0	1
A_51_P470769	93708	110933	Pcdhga1	protocadherin g	Chr18: 37.8417	-0.800292683	10.4	Chr11: 76.947	0.56236	40	0.000109	0.36246	-0.0658	0.749
A_51_P121236	57913	11220	Lrdd	leucine-rich an	Chr7: 141.4385	0.052097561	10.7	Chr12: 111.17	0.56235	40	0.000109	0.50062	-0.1227	0.551
A_51_P489488	83679	66961	Pde4dip	phosphodieste	Chr3: 97.6898	-0.399439024	11.8	Chr5: 45.3562	-0.5622	40	0.00011	0.26969	0.0369	0.858
A_51_P239456			--		Chr10: 80.0362	-0.245487805	13.1	Chr7: 66.4597	0.56208	40	0.00011	0	0	1
A_51_P232547	74025	32697	3632410F0	RIKEN cDNA 3	Chr9: 104.043	-0.22497561	16.1	Chr17: 51.900	-0.562	40	0.00011	0.54907	0	1
A_51_P140901	54128	257	Pmm2	phosphomanno	Chr16: 8.6572	0.933390244	13.4	Chr2: 103.450	0.56203	40	0.00011	0.6034	0.0532	0.796
A_51_P128010	84543	13055	Sval2	seminal vesicle	Chr6: 41.8638	0.237195122	6.8	Chr16: 78.133	0.56193	40	0.00011	0.2684	-0.1265	0.538
A_51_P404992	74405	11863	4933407D0	RIKEN cDNA 4	ChrX: 17.1322	-1.020585366	9.4	Chr13: 16.184	-0.5618	40	0.000111	0.24407	0	1
A_51_P425833	93730	41368	Lztfl1	leucine zipper t	Chr9: 123.699	-0.473170732	10.9	Chr7: 83.0379	-0.5618	40	0.000111	0.36991	-0.128	0.533
A_51_P122845	72117	11851	Mak3	Mak3p homolo	Chr16: 44.163	-0.017682927	11.8	Chr12: 113.25	-0.5617	40	0.000112	0.45642	0	1
A_51_P207636	11947	1273	Atp5b	ATP synthase,	Chr10: 128.085	-0.149536585	13.7	ChrX: 146.966	0.56138	40	0.000113	0.60538	0.2034	0.319
A_51_P467412	18148	81697	Npm1	nucleophosmir	Chr5: 110.117	-1.172731707	14.4	Chr11: 117.24	-0.5608	40	0.000115	0.47323	-0.3014	0.135
A_51_P480928	218441	8826	Zfyve16	RIKEN cDNA E	Chr13: 92.488	-1.101439024	8.1	Chr9: 116.573	-0.5607	40	0.000115	0	-0.5156	0.007
A_51_P303906	66713	4181	Actr2	ARP2 actin-rel	Chr11: 20.062	-0.814780488	8.4	Chr7: 68.1166	-0.5603	40	0.000117	0.33894	-0.2834	0.161
A_51_P134542	67914	6477	2310005O1	RIKEN cDNA 2	Chr8: 94.8531	0.823170732	12.3	Chr9: 105.774	0.55994	40	0.000119	0.61154	0	1
A_51_P177897	30622		Ube2i	ubiquitin-conju	Chr17: 25.261	0.335780488	10.6	Chr7: 68.5806	0.55982	40	0.000119	0	0.1523	0.458
A_51_P290018	14209		Fin14	fibroblast grow	Chr6: 102.936	-0.33	9.8	Chr17: 48.599	-0.5595	40	0.000121	0	-0.39	0.049
A_51_P200484	239393	8385	C820005L1	RIKEN cDNA (	Chr15: 39.870	-1.767487805	11	Chr2: 65.3020	-0.5594	40	0.000121	0	0	1
A_51_P214985	225207	9151	Evi3	ecotropic viral i	Chr18: 13.688	-3.046804878	12.2	Chr6: 145.457	-0.559	40	0.000123	0.49575	0	1
A_51_P255817	20778	21132	Scarb1	scavenger rece	Chr5: 125.277	2.301341463	16.2	Chr2: 67.8562	0.55894	40	0.000123	0.46624	0.3888	0.05
A_51_P383218	234371	9853	BC021367	cDNA sequenc	Chr8: 70.1835	0.121756098	12.2	Chr5: 13.9983	-0.5587	40	0.000124	0	0	1
A_51_P469578	26440	2080	Psma1	proteasome (pr	Chr7: 114.264	-0.181317073	12.5	Chr6: 98.3085	-0.5587	40	0.000124	0.47158	0.2629	0.194
A_51_P113144	108012	2908	Ap1s2	adaptor-relatec	ChrX: 163.933	-2.280926829	11.3	Chr18: 16.414	-0.5586	40	0.000125	0.31611	-0.1768	0.388
A_51_P323615	109815	10200	H47	histocompatibil	Chr7: 66.0893	0.43104878	19.3	Chr7: 66.4597	-0.5583	40	0.000126	0.59038	-0.0506	0.806
A_51_P495719	75164		4930527J03	RIKEN cDNA 4	Chr1: 178.276	0.448609756	6.8	Chr4: 114.835	0.55828	40	0.000126	0	-0.0125	0.952
A_51_P222815	224656	2569	Zfp523	hypothetical pr	Chr17: 28.205	0.281097561	8.8	ChrX: 166.686	0.55817	40	0.000126	0.1599	0.2119	0.299
A_51_P363630	20643	37729	Snrpe	small nuclear r	Chr1: 133.603	-0.573804878	9.2	Chr7: 40.3014	-0.5581	40	0.000127	0.4158	0.0237	0.908
A_51_P260178	79456	3144	Recql4	RecQ protein-li	Chr15: 76.704	0.42704878	9.7	Chr16: 17.412	0.55793	40	0.000128	0.57416	-0.0159	0.939
A_51_P316692	214951	2946	Rhbdl	rhomboid, vein	Chr17: 25.834	1.208341463	9.4	Chr2: 58.00935	0.55786	40	0.000128	0.3881	0	1
A_51_P487379	76281	8749	Tax1bp3	Tax1 (human T	Chr2: 68.5551	-0.312195122	12.3	Chr5: 97.8104	0.55773	40	0.000129	0.3674	-0.1918	0.348
A_51_P297517	68133	90880	5730591C1	RIKEN cDNA 5	Chr8: 116.989	1.431536585	12.7	Chr9: 106.081	0.55741	40	0.00013	0	0	1
A_51_P280114	18600	7214	Padi2	peptidyl arginin	Chr4: 140.952	-2.707487805	7.9	Chr12: 104.39	-0.5574	40	0.00013	0.58719	-0.1451	0.48
A_51_P243094	113848	113725	V1ra6		Chr6: 90.1295	0.335682927	9.2	Chr10: 127.49	-0.5574	40	0.00013	0	0.0191	0.926
A_51_P272563	231713	6891	C330023M0	RIKEN cDNA (	Chr5: 121.440	0.533609756	15.4	Chr18: 51.019	-0.5571	40	0.000132	0.25936	-0.0667	0.746
A_51_P361184	68198	3341	Ndufb2	NADH dehydro	Chr6: 39.5983	-0.420926829	13.1	Chr7: 39.8192	-0.5569	40	0.000132	0	-0.1368	0.505
A_51_P108051	23996	4744	Psmc4	proteasome (pr	Chr7: 28.0424	0.846609756	11.5	Chr16: 86.161	0.5567	40	0.000133	0.36674	0.1148	0.577
A_51_P468505	76367	6042	5630401H0	RIKEN cDNA 5	Chr2: 165.490	0.02804878	10.5	Chr5: 97.8104	0.5566	40	0.000134	0.21653	0	1
A_51_P327996	20299	7529	Ccl22	chemokine (C-	Chr8: 94.7508	0.143	11.4	Chr7: 24.9379	-0.5564	40	0.000135	0.47824	0.3736	0.06
A_51_P408644	27103	40891	Eif2ak4	eukaryotic tran	Chr2: 118.470	-0.32795122	8.2	Chr18: 84.126	0.55636	40	0.000135	0.56407	0.2849	0.158
A_51_P342707	18972	4538	Pold2	polymerase (D	Chr11: 5.8730	0.53804878	12.9	Chr16: 89.885	0.55619	40	0.000136	0.27085	-0.1505	0.463
A_51_P174953	382053	84407	--		Chr8: 105.055	2.557097561	12.5	Chr16: 86.457	0.55611	40	0.000136	0.56318	0	1
A_51_P127976	67197	12095	2700088M2	RIKEN cDNA 2	Chr12: 14.930	-0.630853659	9.4	Chr15: 93.454	-0.5561	40	0.000136	0.37235	0	1
A_51_P196629	329739	46568	B430201A1	hypothetical pr	Chr3: 108.973	-2.872682927	9.6	Chr7: 40.9251	-0.556	40	0.000137	0	0	1
A_51_P208410	232807	75071	2410197A1	RIKEN cDNA 2	Chr7: 4.48173	-0.359097561	9	Chr11: 59.006	0.55585	40	0.000137	0	0	1
A_51_P390734	21872	2445	Tjp1	tight junction pr	Chr7: 65.2962	-0.87602439	13.2	Chr7: 46.4274	-0.5555	40	0.000139	0.33509	-0.3026	0.133
A_51_P501632	11847	906	Arg2	arginase type I	Chr12: 79.156	-1.689268293	6.4	Chr9: 116.573	-0.5555	40	0.000139	0.68253	-0.1972	0.334
A_51_P375969	104158	35606	Ces3	carboxylestera	Chr8: 93.1697	1.917073171	11.4	Chr8: 90.8257	0.55542	40	0.00014	0.49633	0.288	0.154
A_51_P210963			--	Mus musculus	Chr3: 103.008	-0.269121951	7.7	Chr10: 121.508	0.55526	40	0.00014	0	0	1
A_51_P223673	23654		Plxnb2	plexin B2	Chr15: 89.156	1.165	6.7	Chr10: 120.40	0.55497	40	0.000142	0	0.2124	0.298
A_51_P183882	21944	7979	Tnfsf12	tumor necrosis	Chr11: 69.686	-0.426121951	11.1	Chr7: 40.6057	-0.5549	40	0.000142	0.56407	0.23	0.258
A_51_P203501	22321	4587	Vars2	valyl-tRNA syn	Chr17: 35.015	0.142560976	11.4	Chr6: 80.2863	0.55472	40	0.000143	0.24858	0.2948	0.144
A_51_P440099	76415	85775	1700020B0	RIKEN cDNA 1	Chr7: 30.9890	0.113292683	14.1	Chr7: 40.3014	0.55463	40	0.000144	0	0	1
A_51_P123581			--	Mus musculus	Chr10: 130.366	-0.140219512	9.5	Chr17: 53.671	-0.5546	40	0.000144	0	0	1
A_51_P336790	66373	40833	Lsm5	LSM5 homolog	Chr6: 56.7012	-0.277268293	10.4	Chr2: 128.373	-0.5545	40	0.000144	0	-0.1089	0.596
A_51_P413698	66448	9941	Mrpl20	mitochondrial r	Chr4: 155.808	-0.61795122	11	ChrX: 164.079	-0.5542	40	0.000146	0.25223	-0.2924	0.147
A_51_P460929	234847	31133	Spg7	spastic paraple	Chr8: 123.097	0.00997561	11.6	Chr9: 47.2318	0.554	40	0.000147	0.4138	-0.0646	0.754
A_51_P224275	258006		--		Chr5: 143.137	0.951634146	12.8	Chr6: 100.868	0.55399	40	0.000147	0	0	1
A_51_P391904	54519	32434	Apbb1ip	amyloid beta (A	Chr2: 22.8754	-2.070536585	10.4	Chr12: 26.307	-0.554	40	0.000147	0.29312	-0.2033	0.319
A_51_P185902	66610	9505	Abi3	abl-interactor g	Chr11: 95.832	-1.371414634	9	Chr8: 75.6983	-0.5538	40	0.000148	0.28923	-0.0789	0.702
A_51_P392546	231123	75209	MGC36997	hypothetical pr	Chr5: 34.1635	-0.589292683	12.1	Chr9: 108.514	-0.5537	40	0.000148	0.32153	0	1
A_51_P133198	20174	4856	Ruvbl2	RuvB-like prote	Chr7: 45.4221	0.041170732	13.8	Chr12: 34.775	0.55359	40	0.000149	0.4405	-0.0977	0.635
A_51_P311125	72057	10112	Phf10	RIKEN cDNA 1	Chr17: 14.945	-0.400439024	16.7	Chr17: 53.671	-0.5533	40	0.000151	0	-0.2463	0.225
A_51_P123297	66385	2032	Ppp1r7	protein phosph	Chr1: 93.3669	-0.33504878	8.1	Chr12: 79.968	0.5532	40	0.000151	0.41772	0.2681	0.185
A_51_P438781			--	Mus musculus	Chr17: 37.151	0.296341463	11.4	Chr5: 13.9983	0.55304	40	0.000152	0	0	1
A_51_P290974	613		Bcr	breakpoint clus	Chr10: 75.131	-0.307195122	9.3	Chr5: 116.661	0.55291	40	0.000153	0	-0.0195	0.925
A_51_P179998	118424		Ube2j2	ubiquitin-conju	Chr4: 155.959	0.541097561	11.7	Chr15: 62.221	0.5527	40	0.000154	0	-0.2327	0.253
A_51_P409900	216530		Adcy1	adenylate cycla	Chr11: 7.1495	0.393292683	14.7	Chr15: 91.892	0.55262	40	0.000154	0	0.0925	0.653
A_51_P249243	225896	9283	D19Ertd721	DNA segment,	ChrUn: 1.0000	1.105512195	9.5	Chr12: 111.17	0.55236	40	0.000156	0.21975	0.1147	0.577
A_51_P107378	67276	32651	3110010F1	RIKEN cDNA 3	Chr8: 35.4672	-0.305317073	19.6	Chr8: 30.6341	-0.5523	40	0.000156	0.43327	0	1
A_51_P513392	27215	8443	Azi2	5-azacytidine in	Chr9: 118.063	-0.120804878	9.7	Chr7: 83.0379	-0.5523	40	0.000156	0.54342	0.134	0.514
A_51_P502835	22214	103894	Ube2h	ubiquitin-conju	Chr6: 30.2115	0.232390244	7.9	Chr7: 40.6057	0.55224	40	0.000156	0.41016	0.0737	0.72
A_51_P234245			--		Chr1: 93.7919	0.135317073	14.4	Chr6: 85.8175	0.552	40	0.000157	0	0	1
A_51_P105962	231003	27075	BC058738	hypothetical pr	--	-0.125341463	15.7	Chr9: 108.514	0.552	40	0.000157	0.27413	0	1
A_51_P165934	18673	1980	Phb	prohibitin	Chr11: 95.680	0.349439024	10.9	Chr18: 34.260	0.55185	40	0.000158	0.60666	-0.031	0.881

A_51_P339713			--	Mus musculus,	Chr2: 130.5649	0.312756098	13.7	Chr9: 105.7743	0.55182	40	0.000158	0	0	1
A_51_P145076	170737	41858	Zrfp1	zinc ring finger	Chr8: 111.6237	-1.25204878	11.1	Chr3: 113.0575	-0.5518	40	0.000159	0.33215	0	1
A_51_P430139	73329	86036	Xlr	RIKEN cDNA 1	ChrX: 53.8166	-0.432780488	9	Chr3: 145.4324	-0.5517	40	0.000159	0	-0.2061	0.313
A_51_P314375	11905	20139	Serpinc1	serine (or cyste	Chr1: 160.9954	2.595707317	13.7	ChrX: 146.9662	0.55163	40	0.00016	0.55858	0.8488	4E-08
Funding for The GeneNetwork: NIAAA (U01AA13499, U24AA13513), NIDA, NIMH, and NIAAA (P20-DA21131), NCI MMHCC (U01CA105417), and NCRR (U01NR 105417)														
PLEASE RETAIN DATA SOURCE INFORMATION WHENEVER POSSIBLE														

Supplementary Table 3
Citations: Please see http://www.genenetwork.org/reference.html
Trait : Liver LOWESS Stnfd 01/06 Females : A_51_P506843
Database : UNC Agilent G4121A Liver LOWESS Stanford (Jan06) Females
Date : October 08, 2017
Time : 23:34 GMT
Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	omologene	Symbol	Description	ation (Chr:	Mean Expr	Max LRS	Location (	Sample r	Case	Sample p(r	Lit Corr	Tissue r	Tissue p(r)
A_51_P506843	22337	37297	Vdr	vitamin D re	Chr15: 97.8	0.4303659	14.2	Chr9: 54.53	1	40	0	1	1	1
A_51_P264866	258877	105890	Olfr1395		Chr11: 49.1	0.6022927	30	Chr6: 76.18	0.6756628	40	5.899E-07	0	-0.265945	0.1891284
A_51_P494992	12399	37914	Runx3	runt related	Chr4: 135.1	0.4939756	30.8	Chr12: 103.	0.6562349	40	1.735E-06	0.37639	-0.002938	0.9886343
A_51_P290290	18752	20602	Prkcg	protein kina	--	0.0236585	13.7	Chr12: 75.7	0.6489229	40	2.543E-06	0.32827	0	1
A_51_P114438	71947	8831	2310067B1(	RIKEN cDN	Chr11: 115.	0.9231707	14.2	Chr4: 28.32	0.6475723	40	2.726E-06	0	0.5230597	0.0061101
A_51_P429715	16814	4784	Lbx1h	lady bird-lik	Chr19: 45.2	0.5039756	14.4	Chr14: 107.	0.6461033	40	2.938E-06	0.23277	0	1
A_51_P475378	67856	11484	Echdc3	RIKEN cDN	Chr2: 6.188	2.1504634	17.6	Chr9: 53.78	0.6447334	40	3.15E-06	0	-0.177201	0.3864921
A_51_P343727	214922	40957	F730005G1	hypothetica	Chr14: 51.8	0.3128537	9.7	Chr12: 75.7	0.6383302	40	4.335E-06	0.26564	0	1
A_51_P449218	258930	17438	Olfr808		Chr10: 129.	0.1139756	10.8	Chr2: 118.8	0.6256366	40	7.968E-06	0	0.3244993	0.1057994
A_51_P389553			--	Mus muscul	Chr5: 36.11	0.3302439	10	Chr6: 63.82	0.6205052	40	1.01E-05	0	0	1
A_51_P116813	13074	73875	Cyp17a1	cytochrome	Chr19: 46.6	1.5648049	31.9	Chr19: 46.5	0.6145664	40	1.321E-05	0.32556	-0.066459	0.7470232
A_51_P486001	208228	41587	A630029F0	hypothetica	Chr10: 80.6	0.1232439	14.9	Chr6: 55.17	0.6112329	40	1.531E-05	0	0	1
A_51_P135435	214191	82282	A430025D1	RIKEN cDN	Chr3: 88.06	0.7379512	11.3	Chr9: 54.53	0.6016933	40	2.312E-05	0	0	1
A_51_P465931	20190	68069	Ryr1	ryanodine re	Chr7: 29.10	0.3832439	10.4	Chr13: 91.7	0.6007233	40	2.409E-05	0.23547	-0.031673	0.8779268
A_51_P140374	246104	34700	Rhbdl4	rhomboid, v	Chr11: 80.3	1.6534146	13.1	Chr7: 52.87	0.5901688	40	3.729E-05	0.10245	0	1
A_51_P367216			AI848734		ChrUn: 1.00	-0.035805	7.2	Chr19: 40.5	0.5899878	40	3.756E-05	0	0	1
A_51_P488789	69131	84757	1810022J1(	RIKEN cDN	Chr11: 98.2	0.5394878	17.1	Chr12: 103.	0.5878312	40	4.098E-05	0.17291	0	1
A_51_P300588	17428	7842	Mnt	max binding	Chr11: 74.8	1.5896097	10.9	Chr9: 54.53	0.5868118	40	4.269E-05	0.36073	-0.091823	0.6555083
A_51_P508115	77478		C030048J0	RIKEN cDN	Chr9: 111.3	-1.122951	10.4	Chr16: 74.9	0.574284	40	6.965E-05	0	0	1
A_51_P509472	329547	37519	9230105K1	hypothetica	Chr2: 158.2	0.2932195	10.9	Chr8: 109.4	0.5738807	40	7.073E-05	0.3069	0	1
A_51_P151579	14724	30972	Gp1bb	glycoproteir	Chr16: 18.6	-0.016366	14	Chr12: 75.0	0.5711925	40	7.832E-05	0.23468	0.3420929	0.0871553
A_51_P332355	228421	41820	Kif18a	kinesin fami	Chr2: 109.3	-0.661683	9.8	Chr9: 53.78	-0.570705	40	7.977E-05	0.26604	0.0790614	0.7010446
A_51_P115376	258167	72038	--		Chr2: 88.42	0.5069024	15.6	Chr9: 65.71	0.568654	40	8.615E-05	0	0	1
A_51_P118320	28295	3416	D10Jhu81e	DNA segme	Chr10: 78.1	0.4950976	12.5	Chr6: 95.07	0.5675256	40	8.985E-05	0.15536	-0.104318	0.6120537
A_51_P324583	56214	10476	A430024H0	RIKEN cDN	Chr10: 80.6	0.6479268	13.3	Chr6: 55.17	0.5667479	40	9.249E-05	0.14132	0	1
A_51_P426347	22114	56448	Stk22a	serine/threo	Chr16: 17.8	0.4847317	11.4	Chr2: 5.846	0.5645448	40	0.0001003	0.24095	0	1
A_51_P149004	18092	22604	Nkx2-6	NK2 transcr	Chr14: 69.1	0.7343659	14.2	Chr6: 92.62	0.5615751	40	0.0001118	0.20188	-0.011523	0.9554473
A_51_P329569			--		Chr16: 95.1	0.2890244	10.2	Chr1: 184.3	0.5612512	40	0.0001132	0	0	1
A_51_P125425	116905	1059	Dph2l1	diptheria to	Chr11: 75.1	0.6755122	10	Chr7: 132.2	0.5603139	40	0.0001171	0.27406	0	1
A_51_P452659	269855	77555	Ssc5d	scavenger r	Chr7: 4.944	0.2598049	10.9	Chr19: 48.3	0.5572303	40	0.0001308	0.23614	0	1
A_51_P263716	171259	110880	V1ri9		Chr13: 23.2	-0.009878	9.6	Chr7: 136.6	0.5558591	40	0.0001374	0	0.2561887	0.2064902
A_51_P499605	64099	11151	Parvg	parvin, gam	Chr15: 84.3	0.1381463	15	Chr16: 74.9	0.5554077	40	0.0001396	0.2253	-0.033532	0.8708214
A_51_P416209	30938	22925	Fgd3	Fgd1 family	Chr13: 49.2	0.1283902	11.7	Chr2: 35.01	0.550586	40	0.0001655	0.18618	-0.131586	0.5216808
A_51_P235448	56859		Ors6	odorant rec	Chr7: 102.4	1.0214146	12.9	Chr16: 11.8	0.550314	40	0.0001671	0	0	1
A_51_P314571	320309		1520401A0	RIKEN cDN	Chr17: 23.7	0.674	12	Chr6: 55.17	0.5493153	40	0.000173	0	0.0106909	0.9586615
A_51_P101506	53417	9646	Hif3a	hypoxia ind	Chr7: 17.03	0.4810732	16.6	Chr8: 16.85	0.5486169	40	0.0001772	0.27151	-0.366982	0.0651597
A_51_P470793	77772	14981	A330106H0	RIKEN cDN	Chr3: 89.35	0.1367317	10.2	Chr4: 33.02	0.5471771	40	0.0001863	0	0	1
A_51_P120790	17143		Magea7		ChrX: 76.34	0.2020976	12.7	Chr4: 33.02	0.5451583	40	0.0001997	0	0.1885006	0.3564234
A_51_P276149	258581	64892	Olfr1030		Chr2: 85.98	0.9704634	12	Chr6: 97.46	0.5413718	40	0.0002272	0	0.1352727	0.5099767
A_51_P298846	72562	49987	Dcohm	dimerizatior	Chr13: 55.7	0.4173415	11	Chr13: 101.	0.5395692	40	0.0002414	0.24983	0	1
A_51_P504546	107747	122031	Fthfd	formyltetrah	Chr6: 90.59	2.2910244	26.2	Chr9: 54.53	0.5369147	40	0.0002638	0.32858	0.2028677	0.3202534
A_51_P166198	103554	113742	Psme4	proteasome	Chr11: 30.8	0.1234146	16.6	Chr4: 82.61	-0.535216	40	0.0002791	0.20443	0.1456702	0.4776755
A_51_P220310	22062	3960	Trp73	transformati	Chr4: 154.0	0.3085366	11.8	Chr19: 46.5	0.5339016	40	0.0002914	0.35158	0.1494678	0.4661449
A_51_P208722			--	Mus muscul	Chr1: 82.94	0.1739024	13.9	Chr1: 94.00	0.5315041	40	0.0003152	0	0	1
A_51_P254608	208076	32527	Pknox2	Pbx/knotted	Chr9: 36.92	0.7844146	14.6	Chr9: 54.53	0.5311382	40	0.000319	0.16387	-0.349244	0.0803315
A_51_P455906	69745	10909	Pold4	polymerase	Chr19: 4.23	0.6819756	10.3	Chr6: 55.17	0.5297855	40	0.0003334	0.25745	-0.056243	0.7849325
A_51_P466070	66479		1700029F1	RIKEN cDN	Chr13: 97.0	0.9053171	21.6	Chr6: 90.35	0.5296354	40	0.000335	0	-0.00563	0.9782239
A_51_P280766	241116	28093	B230363K0	RIKEN cDN	Chr1: 74.92	0.0417073	12.1	Chr6: 55.17	0.528376	40	0.0003489	0	0	1
A_51_P130254	234353	87257	Psd3	pleckstrin a	Chr8: 67.71	0.1294634	10.6	Chr2: 11.78	0.5283138	40	0.0003496	0	-0.167932	0.4122042
A_51_P470304	20231	7525	Nkx1-2	NK1 transcr	Chr7: 132.5	0.5306098	11.1	Chr3: 109.4	0.5279241	40	0.000354	0.24056	0.1862336	0.3623424
A_51_P187645	16061		Igh-VJ558	immunoglob	Chr12: 113.	-2.737902	12.5	Chr6: 55.17	0.5276091	40	0.0003576	0.17781	0.4223331	0.0316115
A_51_P500031	71130	65986	Sh2d6	SH2 domair	Chr6: 72.51	0.1073902	11.5	Chr1: 155.7	0.5273324	40	0.0003608	0	0.0904071	0.6605042
A_51_P342810	71723	69171	Dhx34	DEAH (Asp-	Chr7: 16.19	0.1399024	12	Chr2: 134.5	0.526681	40	0.0003685	0	-0.111198	0.5886469
A_51_P348804	56332	9420	Amotl2	angiomotin	Chr9: 102.7	-0.163366	14.5	ChrX: 10.69	0.5265228	40	0.0003703	0.26859	-0.157607	0.4419275
A_51_P337756	52712	12119	Zfp535	DNA segme	Chr11: 65.8	-0.437463	11.2	Chr9: 54.53	0.5261719	40	0.0003745	0	0	1
A_51_P136920			--	Mus muscul	Chr11: 6.00	0.586	10.9	Chr6: 55.17	0.525628	40	0.0003811	0	0	1
A_51_P125135	67849	49860	Cdca5	cell division	Chr19: 6.09	-0.958976	21.9	Chr2: 104.0	-0.52543	40	0.0003835	0.12514	0.1839847	0.3682706
A_51_P487178	214058	13031	2410080H0	RIKEN cDN	Chr9: 64.70	0.2599512	11	Chr11: 107.	0.5242968	40	0.0003976	0.14996	0	1
A_51_P444986	258193		Olfr635		Chr7: 103.9	0.6311707	13.2	Chr2: 9.829	0.5236047	40	0.0004064	0	0.2013699	0.3239153
A_51_P168245	11320		Mgat4a	mannoside	Chr1: 37.49	0.1033415	8.2	Chr3: 100.3	0.5228314	40	0.0004165	0	0.3670138	0.0651343
A_51_P363401	19074	2044	Prg2	proteoglyca	Chr2: 84.98	-0.084	21.3	Chr2: 5.846	0.5224991	40	0.0004209	0.33624	0.0917904	0.6556218
A_51_P516016	20761		Sprr2g	small prolin	Chr3: 92.37	-0.526341	17.1	Chr6: 55.17	0.5220992	40	0.0004263	0.20076	-0.066323	0.7475239
A_51_P309131	3767		Kcnj11	potassium i	ChrUn: 1.00	0.1757317	17.4	Chr19: 48.3	-0.520408	40	0.0004496	0	-0.351427	0.0783319
A_51_P236013	233900	8856	Rnf40	ring finger p	Chr7: 127.6	0.2419512	12.2	Chr5: 19.14	0.5201113	40	0.0004538	0.2343	0.3664816	0.0655546
A_51_P394040	94041	6202	Allc	allantoicase	Chr12: 28.5	0.3912927	14.2	Chr6: 55.17	0.5189421	40	0.0004707	0.20858	-0.049009	0.8120735
A_51_P352763	13090	104114	Cyp2b19	cytochrome	Chr7: 26.77	0.3748293	9.6	Chr6: 55.17	0.5176933	40	0.0004893	0.28384	0.2267717	0.2652639
A_51_P429864	17687	8415	Msh5	mutS homol	Chr17: 35.0	0.4134878	12.7	Chr6: 129.6	0.5171523	40	0.0004976	0.1986	0.1319705	0.5204543
A_51_P308351	240025	18237	Dact2	dapper hom	Chr17: 14.1	0.5608293	14	Chr12: 75.7	0.5171302	40	0.0004979	0.28441	0.35311	0.0768157
A_51_P338967	72844	23468	2900008M1	RIKEN cDN	ChrUn: 1.00	0.805878	14.4	Chr6: 76.18	0.5167692	40	0.0005035	0	0	1
A_51_P410619	50796	9280	Dmrt1	doublesex a	Chr19: 25.6	0.5002927	21	Chr6: 76.18	0.5159151	40	0.000517	0.2841	-0.127908	0.5334835
A_51_P463596	259105	86245	NM_147101.1		ChrUn: 1.00	0.5946585	11.2	Chr16: 74.1	0.5151604	40	0.0005292	0	0	1
A_51_P235994	72145	22855	Wdfy3	WD repeat	Chr5: 101.9	0.4714634	10.5	Chr19: 36.1	0.5149964	40	0.0005319	0.22364	-0.099289	0.6293993
A_51_P318381	18654	1978	Pgf	placental gr	Chr12: 85.1	0.9633658	23.1	Chr6: 76.18	0.5149614	40	0.0005324	0.41511	-0.365662	0.0662062
A_51_P415059	20877	55807	Aurkb	aurora kinas	Chr11: 69.0	-1.161707	21.8	Chr2: 107.2	-0.514739	40	0.0005361	0.25581	0.2429528	0.2317295
A_51_P133072	104880		D930046M1	RIKEN cDN	ChrUn: 1.00	0.7632195	17	Chr16: 17.6	0.5130842	40	0.000564	0	-0.381339	0.0545839
A_51_P475728	71131	16318	Zfp689	zinc finger p	Chr7: 127.4	0.2277805	15.8	Chr19: 46.5	0.5130236	40	0.000565	0	-0.432101	0.0274927
A_51_P432282	212198	56993	B930090D1	hypothetica	Chr12: 109.	0.9729756	12.1	Chr6: 55.17	0.5127216	40	0.0005703	0	0	1
A_51_P360110	56381	8992	Spen	SPEN homo	Chr4: 141.4	0.4852195	12.3	Chr16: 74.9	0.5118701	40	0.0005853	0.35903	0.4443935	0.0229365
A_51_P373461	210766	11530	C6.1A	c6.1a protei	ChrX: 75.44	0.0128293	11.9	Chr16: 74.9	-0.508649	40	0.0006452	0.267	0	1
A_51_P399106	217830	11798	9030617O0	RIKEN cDN	Chr12: 100.	-0.271927	84.2	Chr12: 100.	0.5065077	40	0.000688	0	0.1078225	0.600082
A_51_P242687	18419	8421	Otog	otogelin	Chr7: 46.31	0.4344878	11	Chr4: 33.02	0.5062817	40	0.0006927	0.24583	0.0838889	0.6836896
A_51_P172417	71722	87637	Cic	capicua trar	Chr7: 25.29	0.5262195	10	Chr14: 119.	0.5060443	40	0.0006976	0.30387	0.1344631	0.5125359
A_51_P356922	18392	31221	Orc1l	origin recog	Chr4: 108.6	-0.806829	15.3	Chr2: 109.9	-0.504592	40	0.0007284	0.2029	0.1198232	0.559867
A_51_P261131			--		Chr3: 66.22	0.6956341	13.2	Chr6: 92.62	0.5036921	40	0.0007481	0	0	1

A_51_P156513	209692	10278	C330018I04	RIKEN cDN	Chr2: 5.896	2.1398049	69.3	Chr2: 5.846	0.5035998	40	0.0007501	0	0	1
A_51_P245468			AI838397		ChrUn: 1.00	0.3378537	16.8	Chr4: 29.26	0.5031405	40	0.0007604	0	0	1
A_51_P446106	242735	77949	Lrrc38	leucine-rich	Chr4: 143.3	0.709439	17.4	Chr6: 76.18	0.5029571	40	0.0007645	0	-0.125159	0.5423893
A_51_P509679	16061		Igh-VJ558	immunoglob	Chr12: 113.	-3.084561	14.7	Chr6: 55.17	0.5026089	40	0.0007724	0.17781	0.4223331	0.0316115
A_51_P271944	320717	6100	9130017A1	RIKEN cDN	Chr5: 122.3	0.2337317	7.9	Chr1: 160.2	0.5017503	40	0.0007922	0	0	1
A_51_P290191	15235	7360	Mst1	macrophage	Chr9: 108.0	2.8048537	7.7	Chr7: 114.0	0.499831	40	0.000838	0.41918	-0.302121	0.1335971
A_51_P210059	329972	18639	4933414G0	hypothetica	Chr4: 141.1	1.0643171	22.9	Chr6: 76.18	0.4996435	40	0.0008426	0	0	1
A_51_P475395	217866	55945	Cdc42bpb	Cdc42 bindi	Chr12: 111.	0.3907073	15.7	Chr16: 97.3	0.4982738	40	0.0008769	0.13568	0.3332791	0.0961574
A_51_P302481	22301	104120	V2r11	vomeronasa	Chr14: 51.4	0.4294634	15	Chr8: 14.48	0.498058	40	0.0008824	0	0	1
A_51_P322910	67724	41000	Pop1	processing	Chr15: 34.5	1.0349756	11	Chr1: 162.0	0.4979809	40	0.0008844	0.17365	0.2557236	0.2073442
A_51_P182604	17425	82414	Foxk1	forkhead bo	Chr5: 142.4	0.3914878	13.6	Chr7: 52.87	0.4969482	40	0.0009112	0.28952	-0.215925	0.2894097
A_51_P187507	71985	49825	2410021P1	RIKEN cDN	Chr5: 121.6	0.9851707	20.4	Chr6: 134.2	0.4965749	40	0.0009211	0	0	1
A_51_P382443	101592	11599	6030468D1	RIKEN cDN	Chr7: 82.69	0.4560244	13.3	Chr6: 97.46	0.4963277	40	0.0009277	0.17204	0	1
A_51_P141180	228361	18204	Ambra1	Autophagy/l	Chr2: 91.81	0.104561	12	Chr12: 58.9	0.4951742	40	0.000959	0.20787	0.5460867	0.0039018
A_51_P403834	20974	3101	Syngr3	synaptogyri	Chr17: 24.6	1.4616585	24.4	Chr16: 17.6	0.4951496	40	0.0009597	0.19504	-0.131842	0.520864
A_51_P269173	102580	6756	Dibd1	disrupted in	Chr9: 50.84	0.2786585	34	Chr9: 54.53	0.4949322	40	0.0009657	0	0	1
A_51_P211908	27277	38009	Golga5	golgi autoar	Chr12: 102.	-0.422659	50.8	Chr12: 102.	0.4945326	40	0.0009768	0.2398	-0.039978	0.8462535
A_51_P267836	18815	55452	Plg	plasminoge	Chr17: 12.4	2.9662927	10.7	Chr9: 53.78	0.4944846	40	0.0009782	0.33053	-0.127889	0.5335472
A_51_P242433	108073	20233	Grm7	glutamate re	Chr6: 110.9	0.1689268	14.8	Chr3: 157.5	0.4942744	40	0.0009841	0.29563	-0.211002	0.3008104
A_51_P468658	216188	51942	D330038I09	RIKEN cDN	Chr10: 83.4	1.2057073	16.4	Chr9: 54.53	0.493926	40	0.0009939	0	0	1
A_51_P107282	66826	37264	Taz		ChrX: 74.28	-0.146927	13.5	Chr6: 55.17	0.4937459	40	0.0009991	0.36276	0.0169743	0.9344073
A_51_P242403	16833	22767	Ldh3	lactate dehy	Chr7: 46.87	0.2867073	11.1	ChrX: 47.87	0.4937003	40	0.0010004	0.30689	0	1
A_51_P204402	20419	32123	Shcbp1	Shc SH2-do	Chr8: 4.736	-0.817244	16	Chr2: 107.2	-0.49282	40	0.0010258	0.23134	0.0058455	0.9773906
A_51_P477428	14676	1563	Gna15	guanine nuc	ChrUn: 1.00	0.3188049	12.8	Chr4: 41.02	0.492524	40	0.0010345	0.29519	0.0093859	0.9637041
A_51_P379478	210356	35542	8430408F2	hypothetica	Chr1: 125.9	-2.317634	7.1	Chr8: 88.62	-0.491504	40	0.0010649	0	0	1
A_51_P170207	228607	17004	D430028G2	RIKEN cDN	Chr2: 131.2	1.2009024	16.2	Chr2: 109.9	0.4905757	40	0.0010933	0.27067	0.0647126	0.7534665
A_51_P266958	18171	40757	Nr1i2	nuclear rece	Chr16: 38.2	2.9942927	14.6	Chr4: 88.59	0.4904054	40	0.0010986	0.37839	0.4603227	0.0179646
A_51_P352484			--		Chr14: 51.4	0.3923415	10.2	Chr14: 103.	0.4895234	40	0.0011263	0	0	1
A_51_P345937	21379	31259	Tbrg4	transforming	Chr11: 6.61	0.1954634	9.8	Chr6: 55.17	0.4883854	40	0.0011629	0.26141	0.3764532	0.0580204
A_51_P119841	15874	36024	Iapp	islet amyloid	Chr6: 142.3	0.1969024	16.9	Chr2: 5.846	0.4880682	40	0.0011733	0.37187	0.4213303	0.0320609
A_51_P473259	99586	85	Dpyd	dihydropyrir	Chr3: 119.4	2.2089268	13.1	Chr7: 48.99	0.4871994	40	0.0012022	0.24475	0.3068673	0.1273017
A_51_P512439	22296	113725	V1ra1	vomeronasa	Chr6: 90.13	0.4850244	10.9	Chr4: 33.02	0.4866644	40	0.0012203	0.1626	0.226299	0.2662883
A_51_P108512	16061		Igh-VJ558	immunoglob	Chr12: 113.	-2.670561	12.3	Chr6: 55.17	0.4861012	40	0.0012396	0.17781	0.4223331	0.0316115
A_51_P150979	258086	115535	Olfr957		Chr9: 39.75	0.2293415	10.8	Chr10: 17.9	0.4859449	40	0.0012451	0	0.3673836	0.0648435
A_51_P260886	66999	11873	Eg1	endothelial-	Chr5: 45.52	-0.938585	9.4	Chr3: 109.4	-0.485801	40	0.0012501	0.29402	0	1
A_51_P447976	74645		4930431B0	RIKEN cDN	Chr3: 100.4	-1.475878	15.3	Chr3: 107.1	0.4857915	40	0.0012504	0	0.0165105	0.9361957
A_51_P142614	14107	66302	Fat	fat tumor su	Chr8: 45.01	0.3005854	9.2	Chr18: 6.94	0.4851386	40	0.0012733	0.39202	0	1
A_51_P478581	72277		1700030F1	RIKEN cDN	Chr15: 99.9	0.1479512	13.7	Chr2: 109.7	0.4848246	40	0.0012844	0	-0.127408	0.5350982
A_51_P430417	258296	27116	Olfr745		Chr14: 50.6	0.1702927	17.7	Chr16: 82.1	0.484808	40	0.001285	0	0.2453344	0.2270436
A_51_P517075	20317	1965	Serpinf1	serine (or cy	Chr11: 75.4	2.3180488	18.9	Chr9: 54.53	0.4846832	40	0.0012895	0.40363	-0.387419	0.0505315
A_51_P409039	93747	3018	Echs1	enoyl Coen	Chr7: 140.1	0.8337073	11.9	Chr9: 24.61	0.4843035	40	0.0013031	0.19639	0.1681532	0.4115788
A_51_P500226	71966	9738	Kbras2	I-kappa-B-ir	Chr11: 100.	0.7037561	13.3	Chr9: 54.53	0.4841525	40	0.0013086	0.26216	0	1
A_51_P245454	192169	10151	Ufsp2	UFM1-spec	Chr8: 45.99	0.2351951	17.6	Chr10: 111.	-0.484036	40	0.0013128	0.16684	0	1
A_51_P196158	26363	37255	Btd	biotinidase	Chr14: 31.6	1.517561	15.2	Chr6: 64.81	0.4840196	40	0.0013134	0.35818	0.152792	0.456172
A_51_P104820	268420	9818	AW050020	expressed s	Chr11: 60.5	0.4681951	7.4	Chr8: 7.701	0.4836689	40	0.0013262	0.24897	0	1
A_51_P351970	15201	50037	Hells	helicase, lyr	Chr19: 38.9	-0.679683	10.8	Chr4: 124.8	-0.482919	40	0.0013539	0.28727	0.3910324	0.0482369
A_51_P249305	73682		2410116I05	RIKEN cDN	Chr4: 86.93	1.0618781	15.6	Chr6: 76.18	0.4827477	40	0.0013603	0	0.4015457	0.0420246
A_51_P261495	329581	51405	Birc7	baculoviral	Chr2: 180.9	1.0397805	13.2	Chr16: 74.1	0.4824836	40	0.0013702	0.18517	-0.087588	0.6704965
A_51_P113890	317743		Gapd	glyceraldeh	Chr9: 51.62	0.0997073	15	Chr19: 52.8	0.4824159	40	0.0013728	0	0	1
A_51_P352864	259114	82300	Olfr570		Chr7: 102.9	0.3165366	17.8	Chr12: 79.9	0.481752	40	0.0013981	0	0.481895	0.0126721
A_51_P142405	19194	69034	Psp	parotid secr	Chr2: 154.0	0.3791951	12.4	Chr4: 33.02	0.4816658	40	0.0014014	0.29613	0.0104273	0.9596798
A_51_P492298	11827	20137	Aqp2	aquaporin 2	Chr15: 99.5	-0.327268	12.6	Chr2: 5.846	0.4815253	40	0.0014068	0.29952	0.3792586	0.0560271
A_51_P337856	69459	12312	2300004C1	RIKEN cDN	Chr9: 57.92	0.798	10.2	Chr14: 103.	0.4811332	40	0.001422	0	0	1
A_51_P476788	257835		Agilent_P47	non-coding	Chr11: 59.6	0.0599512	9.6	Chr12: 75.0	-0.480992	40	0.0014275	0	0	1
A_51_P223458	67065	1303	Polr3d	polymerase	Chr14: 70.4	-0.008024	11.7	Chr4: 44.31	0.4808072	40	0.0014347	0.24667	-0.283412	0.1606137
A_51_P469545	56703	31761	Pigo	phosphatidy	Chr4: 43.01	0.4977073	19.7	Chr4: 41.02	0.4804784	40	0.0014477	0.2245	0.5368973	0.004684
A_51_P441807	78777	35359	2410002I01	RIKEN cDN	Chr11: 120.	0.4617561	13.5	Chr11: 50.3	0.4803326	40	0.0014535	0	0.4403636	0.024357
A_51_P350495	243846	9209	2600011L02	RIKEN cDN	Chr7: 16.27	0.5532439	12.4	Chr6: 76.18	0.4803252	40	0.0014538	0	0	1
A_51_P387848	214189	5088	Scgn	secretagogi	Chr13: 23.9	0.4838293	13.4	Chr2: 5.846	0.4793812	40	0.0014917	0.27853	0.1830162	0.3708409
A_51_P480212	13544	20928	Dvl3	dishevelled	Chr16: 20.5	0.337	14.5	Chr9: 56.84	0.4792598	40	0.0014966	0.20545	0.4093961	0.0378131
A_51_P150763	252967	12904	Akapasp	A-kinase an	Chr15: 31.4	1.705561	17.4	Chr4: 82.61	0.4791361	40	0.0015016	0.24391	0	1
A_51_P366211	70614		5730513H2	RIKEN cDN	Chr10: 94.7	0.202122	11.4	Chr8: 114.6	0.4784394	40	0.0015303	0	0	1
A_51_P323812	14411	2292	Slc6a12	solute carrie	Chr6: 121.3	2.6615854	16.1	Chr16: 79.2	0.4773667	40	0.0015755	0.26075	-0.263159	0.1939799
A_51_P429770	14125	1516	Fcer1a	Fc receptor,	Chr1: 173.2	0.2113902	14.5	Chr4: 16.49	0.4772516	40	0.0015804	0.35225	-0.046909	0.8199963
A_51_P243294			--	Mus muscul	Chr14: 65.3	0.5422439	10.8	Chr4: 139.5	0.4772082	40	0.0015822	0	0	1
A_51_P138807	71856	122221	1700015L13	RIKEN cDN	Chr2: 164.7	0.3878049	10	Chr14: 119.	0.4768817	40	0.0015963	0.16695	0	1
A_51_P213031	107227	8549	D930010J0	RIKEN cDN	Chr19: 7.19	0.7129512	12.1	Chr6: 138.4	0.4761106	40	0.0016298	0.24936	0	1
A_51_P166456	14367	2590	Fzd5	frizzled hom	Chr1: 64.73	0.4713171	8.4	Chr16: 51.0	0.4760352	40	0.0016331	0.28257	0.5017238	0.0090156
A_51_P385635	68499	12270	Mrpl53	mitochondri	Chr6: 83.10	0.1868293	12.6	Chr6: 44.19	-0.476019	40	0.0016338	0	-0.20689	0.3105446
A_51_P455234			--	Mus muscul	Chr14: 74.7	0.5219756	13.8	Chr19: 48.8	0.4756761	40	0.001649	0	0	1
A_51_P457951	171274	110880	V1rh16		Chr13: 22.0	0.0034878	10.2	Chr12: 103.	-0.474898	40	0.0016838	0	0.0897124	0.6629613
A_51_P492035	243822	89225	4930401F2	hypothetica	Chr7: 4.753	-0.139805	9.2	Chr16: 78.1	0.4746396	40	0.0016955	0	0	1
A_51_P261840			Olfr738		Chr14: 50.4	0.2319024	12	Chr8: 18.51	0.4741603	40	0.0017174	0	0.0442704	0.8299711
A_51_P284067	385317		4930557A0	RIKEN cDN	ChrX: 9.850	0.2355122	26.2	Chr7: 96.10	0.4741041	40	0.00172	0	0.0121252	0.9531211
A_51_P377538	257880	79468	--		Chr2: 86.50	0.2970976	12.6	Chr11: 107.	0.4737976	40	0.0017341	0	0	1
A_51_P180159	16061		Igh-VJ558	immunoglob	Chr12: 113.	-1.874537	12.7	Chr6: 55.17	0.4737064	40	0.0017383	0.17781	0.4223331	0.0316115
A_51_P389839	239852	18401	9430016A2	RIKEN cDN	Chr16: 55.2	-0.228951	5.4	Chr6: 63.82	-0.472056	40	0.0018164	0	0	1
A_51_P412461	239029	52111	4933430J11	hypothetica	Chr14: 34.0	0.4507805	16.8	Chr6: 85.81	0.4719268	40	0.0018227	0	0	1
A_51_P299860	73634	18763	1700125H2	RIKEN cDN	Chr11: 85.1	0.4316585	19.1	Chr19: 49.4	0.471548	40	0.0018411	0	-0.034122	0.8685674
A_51_P314907	27214	40892	Ask	activator of	Chr5: 8.397	-0.38922	16.2	Chr9: 53.78	-0.471232	40	0.0018566	0.2049	0	1
A_51_P294017	106759	8605	Ticam1	toll-like rece	Chr17: 56.2	0.8180976	14.9	Chr14: 118.	0.4709762	40	0.0018692	0.31137	0.4436813	0.0231825
A_51_P362554	257956	74055	--		Chr2: 111.9	0.7060488	61.7	Chr12: 103.	0.470862	40	0.0018749	0	0	1
A_51_P116023	70771	10354	3230401K0	RIKEN cDN	ChrX: 152.3	0.1206341	13.5	Chr6: 49.43	0.470442	40	0.0018958	0.18832	0	1
A_51_P158545	244859	18258	9930020N0	hypothetica	Chr9: 49.41	0.1182439	15.5	Chr9: 53.78	0.4703531	40	0.0019003	0.17829	0	1
A_51_P509418	71362		5430440P1	RIKEN cDN	Chr14: 105.	0.2054146	7.9	Chr6: 63.82	-0.470296	40	0.0019031	0	0	1
A_51_P255945	73086	48302	Rps6ka5	ribosomal p	Chr12: 100.	-1.421854	16.7	Chr15: 63.3	-0.470268	40	0.0019045	0.39041	-0.558081	0.0030499
A_51_P297308	103236	100845	Csnk1g2	expressed s	Chr10: 80.6	-0.315585	15.6	Chr6: 55.17	0.4702068	40	0.0019076	0.2442	0.1519315	0.4587428
A_51_P319780	103978	3285	Gpc5	glypican 5	Chr14: 115.	-0.138634	15.3	Chr9: 54.53	0.4694324	40	0.001947	0.22385	-0.08509	0.6793939
A_51_P417855	235956	83211	MGC18736	hypothetica	Chr1: 149.0	0.3343902	20.3	Chr16: 17.6	-0.469194	40	0.0019592	0	0	1
A_51_P439403	18599	7881	Padi1	peptidyl arg	Chr4: 140.8	0.5495122	15.2	Chr16: 78.1	0.4690733	40	0.0019654	0.27376	-0.170948	0.4037344
A_51_P345842	320209	68973	4732462I11	RIKEN cDN	Chr17: 66.1	0.5850976	14.7	Chr3: 109.4	0.4690351	40	0.0019674	0.22487	0	1
A_51_P497931	118454	10715	Gja12	gap junctior	Chr11: 59.1	0.8013902	21.4	Chr12: 103.	0.468902	40	0.0019743	0.18221	-0.183093	0.3706371

A_51_P177432	223970		A630055G0	hypothetica	Chr16: 10.8	0.8728293	12.4	Chr19: 52.8	0.4687755	40	0.0019809	0	0	1
A_51_P265660	10592		Smc2l1	SMC2 struc	Chr4: 52.48	-0.439634	9.9	Chr8: 96.28	-0.468686	40	0.0019856	0	0	1
A_51_P195034	71988	12432	2410004I17	RIKEN cDN	Chr14: 65.8	-0.435634	18.1	Chr2: 125.4	-0.468673	40	0.0019862	0.21345	0	1
A_51_P283404	93686	49375	Rbfox2	RNA bindin	Chr15: 77.0	-0.268195	15	Chr1: 63.15	0.4685921	40	0.0019904	0.32514	0	1
A_51_P185939	76854	15855	Gpr30	G protein-c	Chr5: 139.4	0.0625122	21.8	Chr2: 5.846	0.4685301	40	0.0019937	0.45191	0	1
A_51_P197354	93790	11368	Nipa2	non-imprint	Chr7: 55.93	-0.067244	13.7	Chr7: 60.03	-0.468493	40	0.0019956	0.20303	0.2594076	0.2006464
A_51_P134942	238328	8941	G630009D1	RIKEN cDN	Chr12: 86.6	0.9558293	14.3	Chr6: 76.18	0.4674112	40	0.002053	0.32941	0	1
A_51_P515364	53609	21391	Sfrs16	splicing fact	Chr7: 19.58	0.7907073	21.2	Chr6: 76.18	0.4671281	40	0.0020682	0.18826	0.1159581	0.5726849
A_51_P289058	12968	12305	Cryge	crystallin, g	Chr1: 65.04	-0.069634	10.3	Chr7: 132.9	0.4668882	40	0.0020812	0.21797	-0.118438	0.5644461
A_51_P469147	17173	3789	Ascl2	achaete-sc	Chr7: 142.9	1.4836585	9.9	Chr19: 7.27	0.4667228	40	0.0020902	0.27738	0.5076364	0.0081139
A_51_P510418	72535	115470	Aldh1b1	aldehyde de	Chr4: 45.80	3.4899512	20.1	Chr9: 54.53	0.4665566	40	0.0020993	0	0.3806468	0.0550607
A_51_P369338	258868	17420	Olfr894		Chr9: 38.21	1.2971951	10.6	Chr14: 118.	0.4665254	40	0.002101	0	-0.082432	0.6889128
A_51_P492830	26886	32519	Cenph	centromere	Chr13: 100.	-0.638098	8.1	Chr19: 38.8	-0.466507	40	0.0021021	0.21538	0.209887	0.3034312
A_51_P312952	71981	87053	2410004F0	RIKEN cDN	Chr7: 35.49	-0.252488	13.5	Chr4: 29.26	-0.466502	40	0.0021023	0.16294	0.0418947	0.8389751
A_51_P477978			--		--	0.2411219	8.6	Chr11: 79.2	0.4661527	40	0.0021215	0	0	1
A_51_P448224	12914	68393	--		Chr16: 4.08	0.5391951	13.4	Chr9: 59.98	0.4658304	40	0.0021394	0.29499	0	1
A_51_P207031	17969	30964	Ncf1	neutrophil c	Chr5: 134.2	-0.256244	11.2	Chr3: 157.5	-0.465575	40	0.0021537	0.32833	-0.035571	0.863035
A_51_P363258	70835	23344	4733401N0	RIKEN cDN	Chr17: 23.9	0.7464878	11.7	Chr16: 88.0	0.4655336	40	0.002156	0	0	1
A_51_P425674	56357	1676	Ivd	isovaleryl c	Chr2: 118.8	0.8846341	19.5	Chr2: 114.1	0.4655252	40	0.0021565	0.19562	-0.002187	0.9915406
A_51_P139437	140491	48124	Ppp1r3a	protein phos	Chr6: 14.71	0.6991707	13.5	Chr12: 76.3	0.4647104	40	0.0022025	0.3061	-0.27393	0.175689
A_51_P382310	20357	8427	Sema5b	sema doma	Chr16: 35.6	0.2392927	15	Chr7: 132.9	-0.464595	40	0.0022091	0.17563	-0.171241	0.4029181
A_51_P427156			AI839636		ChrUn: 1.00	0.1958049	9.1	Chr8: 126.5	0.4643697	40	0.0022221	0	0	1
A_51_P299444	14427	74396	Galr1	galanin rece	Chr8: 71.45	0.7349512	8.7	Chr3: 109.4	0.4642533	40	0.0022288	0.34256	0.2760112	0.1722984
A_51_P306527	22629	37767	Ywhah	tyrosine 3-m	Chr5: 33.02	-2.967	11.4	Chr7: 52.87	-0.464229	40	0.0022302	0.32001	0.0319351	0.876925
A_51_P422639	73003		2900056N0	RIKEN cDN	Chr4: 119.8	0.431122	11.1	Chr4: 114.8	0.4640754	40	0.002239	0	0	1
A_51_P382764	116852	105790	Akr1c20	aldo-keto re	Chr13: 4.48	1.9902439	11.1	Chr16: 56.4	-0.464057	40	0.0022401	0.1619	0.3097484	0.1235869
A_51_P183915	50931	3562	Tccr	T cell cytoki	Chr8: 84.03	-0.388463	13.7	Chr12: 58.9	0.4639221	40	0.0022479	0.37621	0	1
A_51_P380970	13642	3019	Efnb2	ephrin B2	Chr8: 8.619	-0.103634	9.6	Chr5: 132.1	-0.463702	40	0.0022608	0.27148	0.4802242	0.0130294
A_51_P102867	236082	78041	Dhrsx	dehydrogen	ChrUn: 1.00	0.4571951	10.7	Chr15: 102.	0.4634398	40	0.0022761	0.1347	0.4861021	0.0118082
A_51_P289464	73752		1110033L1	RIKEN cDN	Chr2: 140.4	0.059878	7.9	Chr6: 104.8	-0.463244	40	0.0022876	0	0	1
A_51_P129546	20608	20286	Sstr2	somatostati	Chr2: 148.3	0.2750488	10	Chr4: 41.02	0.4629295	40	0.0023063	0.26607	0.4638011	0.0170061
A_51_P412817	216851		D330014H0	RIKEN cDN	Chr11: 69.4	-1.798049	13.7	Chr6: 55.17	-0.462856	40	0.0023106	0	0	1
A_51_P139680	257839		--		Chr9: 3.236	0.0808293	12.1	Chr16: 96.7	0.4625081	40	0.0023314	0	0	1
A_51_P183481	15423	8408	Hoxc4	homeo box	ChrUn: 1.00	-0.118902	11.9	Chr12: 104.	0.4620071	40	0.0023616	0.24733	-0.332489	0.0969975
A_51_P466781	76378	57119	Ropn1	ropporin, rh	Chr16: 34.6	0.0826585	10.6	Chr7: 132.9	-0.461358	40	0.0024013	0.22829	-0.01267	0.951016
A_51_P196505	78670	11389	Gnrpx	guanine nuc	Chr10: 80.7	-0.179683	12.6	Chr16: 91.6	0.4611882	40	0.0024117	0.2251	0	1
A_51_P187262	240047	23375	F730048C1	RIKEN cDN	Chr17: 23.6	0.2640976	13.4	Chr16: 93.6	0.4610878	40	0.002418	0.17778	0	1
A_51_P326357	56015	10460	Olfr71		Chr4: 43.70	0.510122	7.4	Chr8: 57.70	0.4610866	40	0.002418	0.20648	0.1648174	0.4210506
A_51_P343489	140477	15639	Otx3	diencephalc	Chr4: 115.9	1.3451707	16.3	Chr6: 92.01	0.4608583	40	0.0024322	0.20825	0	1
A_51_P310629	11814	81615	Apoc3	apolipoprot	Chr9: 46.23	2.6661463	12.8	Chr2: 145.2	0.460689	40	0.0024427	0.29132	0.1947967	0.3402864
A_51_P417568	258694	64904	Olfr1445		Chr19: 12.8	0.4181463	9.9	Chr12: 107.	0.4605499	40	0.0024515	0	0.2225922	0.2744088
A_51_P408071	208628	32227	Kntc1	kinetochore	Chr5: 123.8	-0.456878	18.1	Chr2: 107.2	-0.460301	40	0.0024671	0	0.2186234	0.283277
A_51_P434995	56013	10324	P140	P140 gene	Chr11: 97.5	0.0360488	17.2	Chr12: 75.7	0.4602936	40	0.0024676	0.25019	0.1333897	0.5159384
A_51_P232708	54615	48236	Npff	neuropeptid	Chr15: 102.	0.6912439	14.1	Chr6: 55.17	0.460184	40	0.0024745	0.33256	0.0937567	0.6487057
A_51_P446512	69578		2310016G1	RIKEN cDN	Chr7: 44.67	0.0192683	9.1	Chr17: 45.3	0.4601446	40	0.002477	0	0.2572368	0.2045749
A_51_P236738	13397		Dlx6as	distal-less h	Chr6: 6.864	2.4066097	14.8	Chr19: 36.1	0.4598143	40	0.0024979	0.14674	-0.15562	0.4477773
A_51_P390448	217893	15016	6720425G1	RIKEN cDN	Chr12: 113.	-0.428244	16.4	Chr7: 52.87	0.4597541	40	0.0025018	0.21983	0	1
A_51_P109939	246703	70948	Apoa1bp	apolipoprot	Chr3: 88.05	0.346561	18.7	Chr10: 111.	0.4593634	40	0.0025268	0.2348	-0.072422	0.7251509
A_51_P358633	17279	32111	Melk	maternal en	Chr4: 44.36	-0.771732	16.8	Chr2: 104.0	-0.459281	40	0.0025321	0.32949	0.3951958	0.0456958
A_51_P395164	18633	3537	Pex16	peroxisome	Chr2: 92.38	1.5391219	10.7	Chr7: 45.58	0.4591893	40	0.002538	0.15663	0.356512	0.07382
A_51_P113321	258715	110531	Olfr421		Chr1: 174.1	-0.021293	6.3	Chr16: 51.0	0.459033	40	0.0025481	0	0.3289147	0.1008645
A_51_P451264			BF577991		ChrUn: 1.00	0.2961707	30.3	Chr12: 103.	-0.458976	40	0.0025518	0	0	1
A_51_P188791	110198	2737	Akr7a5	aldo-keto re	Chr4: 139.3	0.1968049	12.1	Chr4: 139.5	0.4580375	40	0.0026133	0.27437	0.2266114	0.2656111
A_51_P216397	18129	7865	Notch2	Notch gene	Chr3: 98.14	0.7239024	16.8	Chr8: 56.00	0.4579233	40	0.0026209	0.36662	0.1515494	0.4598866
A_51_P277321	225372	21221	Apbb3	amyloid bet	Chr18: 36.6	0.3125366	8.4	Chr1: 162.0	0.4575015	40	0.002649	0.21559	-0.279599	0.166561
A_51_P281486	242773	44908	Dnb5	deleted in n	Chr4: 150.6	-0.079268	6.3	Chr7: 68.11	0.4570799	40	0.0026774	0	0	1
A_51_P497692	75625	8545	2010107K2	RIKEN cDN	ChrX: 153.0	-0.991634	15.8	Chr2: 36.10	-0.456807	40	0.0026959	0	0	1
A_51_P337366			LOC22465(	hypothetica	Chr17: 28.0	0.8082927	13	Chr16: 12.0	0.4564028	40	0.0027235	0	0	1
A_51_P288719	217294		BC006965	cDNA seque	Chr11: 112.	1.3103903	20.2	Chr6: 76.18	0.4562603	40	0.0027333	0	0.0873918	0.6711934
A_51_P431095	28035	13183	Usp39	ubiquitin sp	Chr6: 72.31	-0.268122	10	Chr1: 127.4	-0.455663	40	0.0027747	0.18381	-0.049414	0.8105477
A_51_P501160	212528	5632	Trmt1	TRM1 tRNA	Chr8: 84.69	0.5205854	11.6	Chr9: 54.53	0.4556622	40	0.0027748	0	0.3528256	0.0770703
A_51_P293369	22300		V2r1	vomeronasa	ChrX: 124.1	-0.076756	11.3	Chr11: 117.	0.4552977	40	0.0028003	0.11299	0.1839582	0.3683409
A_51_P197899	53859	2940	Map3k14	mitogen-act	Chr11: 103.	0.5793415	13.6	Chr2: 5.846	0.4550654	40	0.0028167	0.37824	0.2165022	0.2880904
A_51_P230098	52033	32415	Pbk	T-LAK cell-o	Chr14: 65.8	-1.070585	23.1	Chr2: 109.7	-0.454724	40	0.0028409	0.27745	0.3436977	0.0855872
A_51_P245102	68175		4930591A1	RIKEN cDN	Chr2: 179.4	0.4358049	12	Chr1: 94.00	0.4546473	40	0.0028464	0	-0.036997	0.8576003
A_51_P213356	15117	3892	Has2	hyaluronan	Chr15: 56.6	0.2631951	13.2	Chr18: 6.94	0.4542377	40	0.0028757	0.37535	-0.129784	0.5274494
A_51_P303543	56474		Ctps2	cytidine 5'-t	ChrUn: 1.00	1.4038049	23.2	Chr6: 76.18	0.4541269	40	0.0028837	0	-0.439712	0.0245932
A_51_P198583	16491	20513	Kcna3	potassium v	Chr3: 107.0	0.1311951	8.9	Chr7: 68.11	0.453783	40	0.0029086	0.37528	-0.212084	0.2982802
A_51_P141458			--		Chr12: 18.0	0.3715854	11.5	Chr10: 58.4	0.4535059	40	0.0029288	0	0	1
A_51_P491777	18359	73924	Olfr59	olfactory re	Chr11: 74.2	0.7521463	12.6	Chr4: 28.32	0.4527576	40	0.002984	0	0.4626922	0.017307
A_51_P424238	17346	37838	Mknk1	MAP kinase	Chr4: 115.8	-0.122707	11.1	Chr7: 60.03	0.4522485	40	0.003022	0.30896	-0.237533	0.2426317
A_51_P469578	26440	2080	Psma1	proteasome	Chr7: 114.2	-0.151634	13.1	Chr2: 44.58	-0.452199	40	0.0030257	0.28894	0.3098207	0.1234947
A_51_P329490	319653	6040	B230315F1	RIKEN cDN	Chr5: 8.454	-0.45122	29.2	Chr5: 4.468	-0.452193	40	0.0030262	0	0	1
A_51_P220512			4432416O0	RIKEN cDN	--	-0.033439	9.9	Chr14: 107.	-0.452111	40	0.0030324	0	0	1
A_51_P198453	252830	44937	Obox6	oocyte spec	Chr17: 61.3	0.2238049	10.9	Chr10: 9.41	0.4520857	40	0.0030343	0.18958	0.1745281	0.3938105
A_51_P349912	14260	121778	Fmn	formin	Chr2: 113.7	0.0233902	10.8	Chr6: 55.17	0.4514906	40	0.0030794	0.29778	0	1
A_51_P196925	20312	2251	Cx3cl1	chemokine	Chr8: 94.78	-4.596756	13.8	Chr12: 5.94	0.4513084	40	0.0030934	0.37704	0.2889159	0.152295
A_51_P236137	109359	12970	C430003P1	RIKEN cDN	Chr7: 132.8	-0.024024	11.4	Chr19: 42.4	0.4510463	40	0.0031135	0.23559	0.3427947	0.0864669
A_51_P164530	14198	21661	Fhit	fragile histic	Chr14: 9.55	0.322122	12.6	Chr16: 17.6	0.4505343	40	0.0031532	0.37761	0.4516673	0.0205431
A_51_P216702	101351	65276	A130022J1	RIKEN cDN	Chr6: 97.11	-1.160488	23.4	Chr6: 97.46	-0.450209	40	0.0031786	0.20172	0.2221231	0.2754478
A_51_P214443	55553		Sox6	SRY-box co	Chr7: 115.4	0.0771463	10	Chr3: 109.4	-0.449788	40	0.0032119	0	-0.017725	0.9315116
A_51_P242859	27383	121639	Akr1c12	aldo-keto re	Chr13: 4.19	2.0109024	10.4	Chr19: 25.6	-0.449619	40	0.0032252	0	0.276469	0.1715588
A_51_P311699	319433	53117	E130113E0	RIKEN cDN	Chr14: 62.6	0.5361219	14	Chr7: 49.39	0.4491119	40	0.0032658	0	-0.094404	0.6464352
A_51_P355829	15967		Ifna4		Chr4: 88.84	0.302	11.3	Chr18: 69.5	-0.448839	40	0.0032878	0.25784	0.3431685	0.0861019
A_51_P374869	27403	22783	Abca7	ATP-bindin	Chr10: 80.0	-1.425073	11.4	Chr14: 118.	-0.4488	40	0.0032909	0.28673	0.2936641	0.1453691
A_51_P318291	15258	68766	Hipk2	homeodom	Chr6: 38.70	0.4335366	19.2	Chr6: 90.35	0.448551	40	0.0033111	0.38452	0.3153717	0.1165655
A_51_P182529	69885	81895	2610002D1	RIKEN cDN	Chr4: 134.5	-0.260049	12.5	Chr4: 124.3	-0.448543	40	0.0033118	0	0.1710708	0.403392
A_51_P197939			--		Chr19: 9.85	-0.038439	8.4	Chr4: 95.74	0.4483627	40	0.0033265	0	0	1
A_51_P287635	18442	1927	P2ry2	purinergic r	Chr7: 100.9	0.8207073	15.6	Chr4: 61.85	0.4482851	40	0.0033328	0.37651	-0.210895	0.301061
A_51_P383178	258035	74264	--		Chr16: 59.0	0.0228293	13.6	Chr8: 22.14	-0.448187	40	0.0033408	0	0	1
A_51_P318830	54526	10303	Syt10	synaptotagr	Chr15: 89.7	2.1079512	16.1	Chr6: 76.18	0.4480013	40	0.0033561	0.18418	0.2311586	0.2558789
A_51_P455681	12501	586	Cd3e	CD3 antiger	Chr9: 44.99	0.8185122	17.4	Chr2: 125.8	0.4479707	40	0.0033586	0.32978	0.0333424	0.8715447

A_51_P426902	79410		Klra23	killer cell le	ChrUn: 1.00	0.4261463	11	Chr14: 118.	0.4477091	40	0.0033802	0.13177	0.4039729	0.0406847
A_51_P462629	216643	22798	Gabrp	gamma-ami	Chr11: 33.5	-2.562	13.2	Chr19: 52.2	0.4476862	40	0.0033821	0.21385	0.0634864	0.758
A_51_P408044	11652	48773	Akt2	thymoma vi	Chr7: 27.63	0.8767317	17.4	Chr6: 89.34	0.4464741	40	0.0034838	0.38388	-0.551575	0.0034898
A_51_P425847	77777	108274	A430108B0	RIKEN cDN	--	-0.169707	12.5	Chr16: 76.6	-0.446342	40	0.003495	0.20848	0	1
A_51_P418339	52653	12094	D11Ertd603	DNA segme	Chr11: 40.7	0.6147805	7.3	Chr1: 158.5	-0.446305	40	0.0034981	0	0	1
A_51_P179741	227154	10237	Als2cr2	amyotrophi	Chr1: 58.99	0.2433415	9.9	Chr4: 103.6	-0.446019	40	0.0035226	0.25246	-0.158317	0.4398468
A_51_P270286	235661	9403	Dnclic1	dynein, cyto	Chr9: 114.7	-0.175098	11.9	Chr14: 107.	0.4460152	40	0.0035229	0.18216	0	1
A_51_P488041	20872	2739	Stk16	serine/threo	Chr1: 75.21	0.3865854	12.7	Chr4: 19.58	-0.446004	40	0.0035239	0.32052	0.2101798	0.3027414
A_51_P105068	71897	12419	Lypd6b	LY6/PLAUR	Chr2: 49.94	-2.782951	10.1	Chr4: 136.6	-0.445871	40	0.0035354	0	0	1
A_51_P350058	15135	110794	Hbb-y	hemoglobin	Chr7: 103.8	-2.251976	12.6	Chr12: 59.3	0.4458058	40	0.0035409	0.24512	0.13235	0.5192449
A_51_P110088	236727	32785	A530087D1	RIKEN cDN	ChrX: 20.10	-0.644268	18.2	Chr6: 92.62	-0.445672	40	0.0035525	0.11937	0	1
A_51_P149852	18717	69032	Pip5k1c	phosphatidy	ChrUn: 1.00	0.6049024	11.1	Chr2: 64.85	0.4455492	40	0.0035631	0.28246	-0.090844	0.6589592
A_51_P322324	21607		Tcrb-V8.2	T-cell recep	Chr6: 41.12	0.0034634	17.2	Chr5: 115.1	0.4449455	40	0.0036158	0	-0.0592	0.7739084
A_51_P394585			--		Chr9: 66.06	0.3635854	16.7	Chr6: 76.18	0.4447049	40	0.0036369	0	0	1
A_51_P503786	71458	9809	Bcor	Bcl6 interac	ChrX: 12.05	0.1997073	17.5	Chr6: 76.18	0.4446657	40	0.0036404	0.27025	-0.137695	0.5023581
A_51_P136269	104318	74841	Csnk1d	casein kina	Chr11: 120.	0.7651951	21.6	Chr6: 76.18	0.4442305	40	0.003679	0.27239	-0.080563	0.6956284
A_51_P313532	69660	36404	2310061B0	RIKEN cDN	Chr1: 74.28	0.4563415	9	Chr17: 89.0	0.4442213	40	0.0036798	0.30629	0	1
A_51_P416059	224132	13137	Dirc2	disrupted in	Chr16: 35.6	2.1619512	8.9	Chr1: 162.0	0.4441182	40	0.003689	0	-0.344684	0.0846338
A_51_P200204	12020	68168	Bapx1	bagpipe hor	Chr5: 41.76	-0.099805	10.6	Chr19: 52.8	0.4438733	40	0.0037109	0.33157	0	1
A_51_P106815	16565	56868	Kif21b	kinesin fami	Chr1: 136.1	1.2120488	17.7	Chr12: 103.	0.4436367	40	0.0037322	0.16427	0.0123366	0.9523046
A_51_P407565	237117		C430014N2	RIKEN cDN	ChrX: 151.8	1.091561	11.9	Chr18: 3.51	0.4435986	40	0.0037356	0	0	1
A_51_P212723	258044		--		Chr11: 58.4	0.2668537	12.9	Chr6: 95.07	0.4435037	40	0.0037442	0	0	1
A_51_P164581	12111	1293	Bgn	biglycan	ChrX: 73.49	0.4516829	16.5	Chr6: 55.17	0.4434461	40	0.0037494	0.36999	-0.025444	0.9018073
A_51_P398988			BI151098		ChrUn: 1.00	1.0093171	12.3	Chr16: 97.3	0.4431959	40	0.0037721	0	0	1
A_51_P316477			--	Mus muscul	Chr2: 109.0	0.0253171	7.2	Chr6: 48.97	0.4431237	40	0.0037787	0	0	1
A_51_P196663			--		Chr8: 4.102	0.311439	11.8	Chr6: 139.8	-0.443028	40	0.0037874	0	0	1
A_51_P373583	258708	17357	Olfr1342		Chr4: 118.6	0.1831951	15.3	Chr8: 24.85	0.4426327	40	0.0038236	0	0.4147477	0.0351398
A_51_P206225	243537	76629	BC022133	cDNA sequ	Chr6: 90.36	2.7929024	11.6	Chr2: 145.2	0.4426125	40	0.0038255	0	0	1
A_51_P214360	170828	9445	Vgll1	vestigial like	ChrX: 57.10	-0.715976	8.5	Chr10: 9.60	0.4424315	40	0.0038422	0.2129	0.486805	0.0116687
A_51_P319289	70061	23618	Sdro	orphan shor	Chr10: 127.	1.354	11.1	Chr17: 83.3	-0.442087	40	0.0038742	0.18209	0.0156631	0.9394646
A_51_P144206			BG963265		ChrUn: 1.00	0.2471951	10.4	Chr6: 55.17	0.4418726	40	0.0038942	0	0	1
A_51_P383853	83380	79529	Prp2		Chr6: 132.6	1.9494146	11.6	Chr7: 114.0	0.4418413	40	0.0038971	0.16783	0.0575998	0.7798691
A_51_P305994	94225		Cgb	chorionic go	ChrUn: 1.00	-0.176122	11.6	Chr15: 13.0	0.4418107	40	0.0039	0	0	1
A_51_P241117	403171	18671	4930517K2	Mus muscul	Chr2: 144.0	0.470561	19.3	Chr17: 36.8	0.4414804	40	0.003931	0.18808	0.3321802	0.0973267
A_51_P227112	56323	8176	Dnajb5	DnaJ (Hsp4	Chr4: 42.95	0.4282439	8.9	Chr1: 91.32	0.441236	40	0.0039541	0.21382	-0.296995	0.1406467
A_51_P296397	258721	73956	Olfr514		Chr7: 108.8	-0.310927	13.2	Chr2: 142.7	0.4412164	40	0.003956	0	0.1167991	0.5698848
A_51_P389779	69202	32763	Ptms	parathymos	Chr6: 124.9	0.9377073	17.6	Chr6: 76.18	0.4411913	40	0.0039584	0.25345	0.2027905	0.3204414
A_51_P340947	223776	69439	Selo	selenoprote	Chr15: 89.1	1.5118537	8.1	Chr6: 134.2	0.4411598	40	0.0039614	0.09045	0	1
A_51_P256466	223922	4994	1110012F1(	RIKEN cDN	Chr15: 102.	0.1358293	23.1	Chr7: 16.03	0.4409826	40	0.0039782	0.46826	0	1
A_51_P334289	232816	72200	Zec	zinc finger p	Chr7: 4.921	1.1410732	16.8	Chr7: 52.87	0.4408576	40	0.0039901	0.19909	0	1
A_51_P287715	73099		3100003L1	RIKEN cDN	Chr8: 114.9	0.3944878	13.9	Chr1: 184.3	0.4407551	40	0.0039999	0	0	1
A_51_P410999	13445	3411	Cdkap1	CDK2 (cycli	Chr5: 124.3	-1.209122	21.6	Chr5: 123.2	-0.440235	40	0.00405	0.35482	0	1
A_51_P402883	71740	32744	Pvrl4	poliovirus re	Chr1: 171.3	0.2061951	10.5	Chr19: 48.1	0.4401124	40	0.0040619	0.23989	0.1116797	0.5870235
A_51_P108629	18776	7476	Csh2	chorionic so	Chr13: 27.2	0.1275366	25	Chr5: 115.1	0.4400235	40	0.0040705	0.28345	0	1
A_51_P476449			Olfr457		Chr6: 42.48	0.3437805	9.5	Chr2: 11.78	0.439978	40	0.0040749	0	0.3633742	0.0680502
A_51_P312405	114889	8743	Vsx1	visual syste	Chr2: 150.6	0.548439	7.4	Chr7: 46.42	0.4398674	40	0.0040857	0.22892	-0.07409	0.7190689
A_51_P148478	258308	27120	Olfr510		Chr7: 108.6	0.4096098	7.1	Chr19: 54.5	0.4397128	40	0.0041008	0	0.3545982	0.075494
A_51_P136303	106648	80199	Cyp4f15	cytochrome	Chr17: 32.7	2.6752927	14.9	Chr7: 48.99	0.4395205	40	0.0041196	0	-0.093679	0.6489787
A_51_P447258	11686	884	Alox12b	arachidonat	Chr11: 69.1	0.959122	15.6	Chr6: 95.26	0.4388573	40	0.0041852	0.27796	0.1495458	0.4659097
A_51_P432011			--		Chr10: 76.4	0.1237805	15.9	Chr19: 52.8	-0.438728	40	0.0041981	0	0	1
A_51_P365704	56293	89413	Amac1	acyl-malony	Chr11: 69.7	1.3898537	15.5	Chr16: 78.1	0.4378174	40	0.0042898	0.073115	-0.022958	0.9113618
A_51_P298902	258049		--		Chr17: 37.2	0.3952683	11.4	Chr3: 109.4	0.4377461	40	0.0042971	0	0	1
A_51_P424369	93723	110934	--		Chr18: 37.7	0.1956098	10.3	Chr8: 67.90	-0.437697	40	0.0043021	0	0	1
A_51_P192639	258341	73965	Olfr1495		Chr19: 13.7	-1.150951	13.3	Chr12: 75.2	0.4373333	40	0.0043393	0	0.3533728	0.076581
A_51_P467292	856647		Npr2	natriuretic p	Chr4: 43.63	0.5931707	17.2	Chr18: 3.51	0.4371347	40	0.0043597	0	-0.307365	0.1266538
A_51_P227866	52837	10901	D2Bwg1356	DNA segme	Chr2: 134.5	-0.570756	15	Chr6: 76.18	0.437109	40	0.0043624	0	0	1
A_51_P182658	171231		V1re8		Chr17: 20.8	0.2694878	10.2	Chr11: 23.0	0.4371068	40	0.0043626	0	0.2302869	0.2577264
A_51_P201035	102920	4899	Fshprh1	FSH primar	ChrX: 134.3	-0.885	22	Chr2: 109.7	-0.436862	40	0.004388	0	0	1
A_51_P387140	242466	41430	Zfp462	zinc finger p	Chr4: 55.08	-0.363171	11.8	Chr7: 114.0	-0.436819	40	0.0043924	0.24093	0.4062883	0.0394382
A_51_P366960	15108	68403	Hadh2	hydroxyacyl	ChrX: 152.0	0.586	11.5	Chr7: 27.06	0.4367902	40	0.0043954	0.31959	0	1
A_51_P163876	216742	28173	A730024A0	RIKEN cDN	Chr11: 54.4	0.2730244	11.3	Chr19: 36.1	0.4365222	40	0.0044233	0.29626	0	1
A_51_P441894	70810	77127	4631426H0	RIKEN cDN	Chr11: 99.3	0.4104878	17.5	Chr6: 76.18	0.4365073	40	0.0044248	0.27316	0	1
A_51_P402225	104816	113390	A530050D0	RIKEN cDN	Chr12: 112.	2.8172195	14.1	Chr6: 138.4	0.4361039	40	0.0044671	0	0.4249567	0.0304595
A_51_P419503	259075	17489	Olfr641		Chr7: 104.0	0.3483902	9	Chr10: 20.0	0.4360745	40	0.0044702	0	0.3509872	0.0787313
A_51_P204707	258307	17188	Olfr493		Chr7: 108.6	0.3912683	10.2	Chr6: 55.17	0.4359976	40	0.0044783	0.11805	-0.035569	0.863043
A_51_P191572	258704	74999	Olfr411		Chr11: 74.3	1.4212927	10.3	Chr5: 4.468	0.4357515	40	0.0045044	0	0.4565253	0.0190612
A_51_P481676	67109	18983	2210018M0	RIKEN cDN	Chr7: 6.131	0.643561	29.2	Chr12: 103.	0.435743	40	0.0045053	0	0	1
A_51_P216725	75565	12607	1700023O1	RIKEN cDN	Chr7: 126.6	0.2297561	13.2	Chr1: 166.9	-0.435559	40	0.0045249	0.13679	0	1
A_51_P498212			1110030I22	RIKEN cDN	Chr4: 33.05	-0.282878	24.9	Chr4: 33.02	-0.435464	40	0.004535	0	0	1
A_51_P376347	15199	8407	Hebp1	heme bindir	Chr6: 135.1	1.6532439	12.1	Chr2: 165.7	0.435354	40	0.0045467	0.27346	-0.110489	0.5910419
A_51_P448757	22165	2497	Txk	TXK tyrosin	Chr5: 72.69	-0.505098	10	Chr4: 3.703	0.4351081	40	0.004573	0.32444	-0.066981	0.7451025
A_51_P140280	12121	37518	Bicd1	bicaudal D l	Chr6: 149.5	-1.570634	11.4	Chr4: 29.26	-0.434939	40	0.0045913	0.2487	-0.319986	0.1110262
A_51_P321341	20887	68152	Sult1a1	sulfotransfe	Chr7: 126.6	3.2980732	14.5	Chr9: 53.78	0.4344332	40	0.004646	0.31437	0.0266024	0.8973596
A_51_P512820	232449	14562	Dera	2-deoxyribo	Chr6: 137.8	1.1995854	14.4	Chr18: 21.3	0.4342603	40	0.0046649	0	0.5699071	0.0023707
A_51_P347494	20970	7965	Sdc3	syndecan 3	ChrUn: 1.00	0.3363902	14.6	Chr16: 69.2	-0.434122	40	0.00468	0.30058	-0.426057	0.0299864
A_51_P294161	71643	34708	4930422G0	RIKEN cDN	Chr3: 127.6	-0.569024	9.4	Chr9: 80.14	-0.434101	40	0.0046823	0	-0.115439	0.5744169
A_51_P328789	105638	44717	2610018L0	RIKEN cDN	Chr14: 32.0	-0.061805	13.2	Chr9: 54.53	0.4340666	40	0.0046861	0.28992	0	1
A_51_P487930	17463	2104	Psmd7	proteasome	Chr8: 107.5	-0.287683	7.1	Chr3: 134.9	-0.434032	40	0.0046899	0.23487	-0.224149	0.2709802
A_51_P448778	22259	21165	Nr1h3	nuclear rece	Chr2: 91.18	1.4535122	14.8	Chr9: 54.53	0.4334426	40	0.004755	0.3547	0.0179805	0.930528
A_51_P335014	11878	68998	Arx	aristaless re	ChrX: 93.29	0.5389268	23.4	Chr6: 76.18	0.4332456	40	0.0047769	0.31956	-0.199326	0.3289531
A_51_P354895			--	Mus muscul	Chr11: 43.2	0.0819756	8.5	Chr7: 132.2	-0.433237	40	0.0047779	0	0	1
A_51_P484537	14211	4705	Smc2l1	SMC2 struc	Chr4: 52.45	-0.52239	12.9	Chr2: 114.1	-0.433152	40	0.0047874	0.19941	0	1
A_51_P136578	271305	78154	A730032D0	RIKEN cDN	Chr15: 84.7	0.7576098	13.8	Chr16: 97.5	0.4329995	40	0.0048044	0	0	1
A_51_P341041	72107	5464	2600005O0	RIKEN cDN	Chr15: 55.0	-0.909	25.7	Chr2: 114.1	-0.432948	40	0.0048102	0	0.1160078	0.5725193
A_51_P147562	66084	5675	0610042C0	required for	Chr10: 4.40	0.4642439	16.2	Chr9: 54.53	0.4328504	40	0.0048212	0	0	1
A_51_P184156	12627	117947	Cfc1	cripto, FRL-	Chr1: 34.53	0.5446585	9.9	Chr8: 126.5	0.4328359	40	0.0048228	0.2263	0.2390577	0.239531
A_51_P345159	67196	40929	2700084L2	RIKEN cDN	Chr1: 134.9	-0.774951	17	Chr2: 107.2	-0.432601	40	0.0048493	0.23655	0	1
A_51_P273923			--	Mus muscul	Chr19: 4.31	0.4773902	17.2	Chr2: 11.78	0.4323641	40	0.0048761	0	0	1
A_51_P309968			--		Chr3: 83.35	0.5231463	13.4	ChrX: 102.4	0.4323487	40	0.0048779	0	0	1
A_51_P401073	73744	4887	Man2c1	mannosidas	Chr9: 57.14	0.5014146	8.9	Chr17: 43.8	0.4323117	40	0.0048821	0.28151	-0.170266	0.4056406
A_51_P434147	114564	86179	Csprs	component	--	0.0557561	14.9	Chr3: 109.4	0.4319553	40	0.0049227	0.21776	0.0362695	0.8603719
A_51_P284125			--	Mus muscul	Chr16: 89.1	0.2588781	20.4	Chr19: 48.3	0.4317797	40	0.0049428	0	0	1

A_51_P143528	193452	113602	9630042L1	hypothetica	Chr13: 21.9	-0.196707	14.2	Chr18: 6.94	-0.431583	40	0.0049655	0	0	1
A_51_P432651	16188	48088	Il3ra	interleukin 3	Chr14: 14.3	1.0300488	12.2	Chr6: 76.18	0.4311568	40	0.0050148	0.29341	-0.090357	0.6606801
A_51_P427964	320502	28097	Lmod3	leiomodin 3	Chr6: 97.23	0.7516829	14	Chr6: 55.17	0.4309427	40	0.0050398	0.16335	-0.105739	0.6071879
A_51_P385874	18996	21255	Pou4f1	POU domai	Chr14: 104.	1.0886829	19.5	Chr6: 76.18	0.4308418	40	0.0050516	0.27242	-0.146748	0.4743872
A_51_P300787	72889		2900005P2	RIKEN cDN	Chr15: 73.0	-0.061244	8	Chr19: 36.1	-0.430709	40	0.0050671	0	0	1
A_51_P432823			--	Mus muscul	--	1.6180244	15.9	Chr6: 76.18	0.4306795	40	0.0050706	0	0	1
A_51_P172409	399233		Txndc4	thioredoxin	Chr4: 48.19	0.3682683	17.4	Chr16: 96.7	0.4306483	40	0.0050742	0	0.236374	0.245006
A_51_P139745	110460	55855	Acat2	acetyl-Coer	Chr17: 12.9	2.227439	20.9	Chr17: 12.3	0.4306307	40	0.0050763	0.26315	0.2772187	0.1703523
A_51_P361678	68178	41901	4933421H1	RIKEN cDN	Chr9: 71.62	-0.858146	21	Chr9: 70.31	-0.430117	40	0.005137	0.20097	0	1
A_51_P507844	69605	12319	Lnp	limb and ne	Chr2: 74.52	-0.014951	14.1	Chr7: 132.2	-0.429914	40	0.0051611	0.18295	-0.002496	0.9903466
A_51_P454463	319508	12901	Syt15	synaptotagr	Chr14: 34.2	-0.080683	9.8	Chr18: 58.4	-0.429711	40	0.0051854	0.22803	-0.187525	0.3589629
A_51_P350419	20423	30961	Shh	sonic hedge	Chr5: 28.46	0.1906585	12.4	Chr2: 5.846	0.4294877	40	0.0052122	0.29872	-0.166378	0.4166054
A_51_P144500	20649	9618	Sntb1	syntrophin,	Chr15: 55.6	0.7533171	14.9	Chr19: 38.3	0.4294549	40	0.0052161	0.18485	-0.28252	0.161991
A_51_P472033	217847	9414	Serpina10	serine (or c	Chr12: 103.	1.5670732	17	Chr12: 103.	0.4294468	40	0.0052171	0.32353	-0.091758	0.6557365
A_51_P233546	23920	56539	Insrr	insulin rece	Chr3: 87.81	0.4928293	10.9	Chr16: 17.6	0.4294086	40	0.0052217	0.24885	0.621964	0.0006933
A_51_P417956	101533	40832	1200016C1	RIKEN cDN	ChrUn: 1.00	-0.021146	12	Chr7: 100.8	-0.429314	40	0.005233	0	0	1
A_51_P299546			--	Mus muscul	Chr8: 34.81	0.82	14.9	Chr4: 45.97	-0.42912	40	0.0052566	0	0	1
A_51_P411329	257851		--		Chr1: 174.0	0.0363415	8	Chr1: 94.00	-0.429077	40	0.0052617	0	0	1
A_51_P419141	60534	3402	Fancg	Fanconi ane	Chr4: 43.00	1.2226585	15.8	Chr19: 40.5	0.4288432	40	0.0052901	0.29589	-0.092152	0.6543487
A_51_P222946			--		Chr7: 16.98	0.3461951	7.6	Chr7: 114.0	-0.428593	40	0.0053207	0	0	1
A_51_P462719			AI840782		ChrUn: 1.00	0.2334878	14.2	Chr19: 36.1	0.428539	40	0.0053273	0	0	1
A_51_P298266	66643	12004	Lix1	limb expres	Chr1: 60.59	0.4691951	9.4	Chr9: 64.61	0.4285068	40	0.0053312	0.21688	-0.232802	0.2524198
A_51_P284130	320541	84987	Slc35e2	solute carri	Chr4: 155.6	0.4057317	12.3	Chr16: 78.1	0.4282802	40	0.0053591	0	0	1
A_51_P381988	15371	49241	Hmx1	H6 homeo b	Chr5: 35.39	0.4939268	10.7	Chr12: 75.2	0.4280911	40	0.0053824	0.31809	-0.073136	0.7225456
A_51_P457201	20379	2267	Sfrp4	secreted fri	Chr13: 19.6	-0.775707	8.8	Chr9: 53.78	0.4278156	40	0.0054165	0.4241	-0.111284	0.5883573
A_51_P173622	19247	2122	Ptpn11	protein tyro	Chr5: 121.1	-0.753951	19.2	Chr7: 49.39	-0.427762	40	0.0054231	0.29168	-0.28045	0.1652204
A_51_P412249			AI837370		ChrUn: 1.00	0.7888537	11	Chr14: 107.	0.4277027	40	0.0054306	0	0	1
A_51_P208919	72482	12465	2610100E1	RIKEN cDN	Chr1: 155.5	0.923561	17.1	Chr13: 101.	0.4275913	40	0.0054444	0	0	1
A_51_P377506	268481	17556	6330509G0	RIKEN cDN	Chr11: 99.2	-0.150463	13.4	Chr16: 74.9	-0.427251	40	0.0054871	0	0	1
A_51_P301007	75469	12602	1700001L2	RIKEN cDN	Chr9: 27.40	0.0684878	8.9	Chr7: 96.67	0.4269451	40	0.0055256	0.12167	0	1
A_51_P177597	11603	27907	Agrn	agrin	--	0.0546098	14	Chr6: 64.81	0.4268425	40	0.0055386	0.29092	0.1178102	0.5665265
A_51_P114274	71276	52351	4933434G0	RIKEN cDN	Chr11: 120.	0.4625366	19.1	Chr6: 144.0	0.4261223	40	0.0056304	0	0	1
A_51_P244213	67666	18654	Hapln3	hyaluronan	Chr7: 79.11	0.2148537	11.5	Chr5: 4.468	0.4260875	40	0.0056349	0.23921	-0.244759	0.2281699
A_51_P347684	23892	8022	Grem1	cysteine kn	Chr2: 113.7	0.1224878	13.2	Chr16: 96.7	0.4257019	40	0.0056846	0.38235	0.4573762	0.0188108
A_51_P445532	14654	20083	Glra1	glycine rece	Chr11: 55.5	0.0821707	12.7	Chr16: 93.6	0.4256944	40	0.0056856	0.27155	-0.032604	0.8743653
A_51_P419270	66326	32634	Dnajc5b	RIKEN cDN	Chr3: 19.61	0.2701951	16.6	Chr13: 95.4	-0.425616	40	0.0056958	0.1841	-0.055948	0.786035
A_51_P116289	71804	69441	2610016C2	RIKEN cDN	Chr10: 20.3	-0.355439	11.3	Chr1: 91.32	-0.425298	40	0.0057371	0.19055	0.1374124	0.5032434
A_51_P326932	70722		6330414G0	RIKEN cDN	Chr19: 17.2	-2.109878	6.3	Chr19: 23.9	0.4249974	40	0.0057765	0	0	1
A_51_P341443	235386	16057	C630028N2	RIKEN cDN	Chr9: 54.92	-0.066024	10.5	Chr4: 97.34	0.4247591	40	0.0058078	0	0.2664323	0.1882883
A_51_P131261	69480	52649	1700029M0	tetratricope	Chr12: 81.6	0.9996341	14.4	Chr6: 92.01	0.42474	40	0.0058103	0.30708	0	1
A_51_P509649	74107	10019	1200008O1	RIKEN cDN	Chr19: 38.0	-0.705073	14.9	Chr4: 74.39	-0.424739	40	0.0058104	0.21207	0	1
A_51_P283807	20815	110962	Srpk1	serine/argin	Chr17: 28.5	0.1247317	12.2	Chr4: 85.09	-0.424624	40	0.0058256	0.27388	0.4907791	0.0109057
A_51_P192924	71001		4931440L1(	RIKEN cDN	Chr1: 134.5	0.348	7.6	Chr16: 62.2	-0.424178	40	0.0058848	0	-0.037739	0.8547721
A_51_P305624	319804	16965	5730455A0	RIKEN cDN	Chr5: 127.7	0.691439	17.7	Chr4: 13.10	0.4240301	40	0.0059046	0	0	1
A_51_P206872	258853	17415	Olfr982		Chr9: 40.07	0.9982195	14.3	Chr2: 122.5	0.4236599	40	0.0059543	0	-0.00078	0.9969818
A_51_P293247	74383	40988	4932431F0	RIKEN cDN	Chr3: 90.00	-0.925098	11.1	Chr12: 83.7	0.4235868	40	0.0059642	0.22266	0	1
A_51_P501299	75199	41772	4930539I12	RIKEN cDN	ChrX: 37.53	0.1705854	8.3	Chr18: 70.1	-0.423397	40	0.0059899	0.21045	0	1
A_51_P244175			--		Chr10: 24.0	0.1125366	11.9	Chr12: 103.	0.4233924	40	0.0059905	0	0	1
A_51_P331669	68879	5368	2610031L1	RIKEN cDN	ChrUn: 1.00	0.0299268	9.9	Chr11: 103.	-0.423365	40	0.0059941	0.1899	0	1
A_51_P469510	73481	49905	1700074P1	RIKEN cDN	Chr6: 40.92	-0.087976	11	Chr6: 44.19	-0.422783	40	0.0060735	0	0.3267611	0.1032496
A_51_P245875	70097	69182	Sash1	SAM and SI	Chr10: 8.72	0.2631951	10.4	ChrX: 42.45	0.4224911	40	0.0061136	0.23861	0.2434222	0.2308009
A_51_P143023	319969		A830046J0	RIKEN cDN	Chr19: 59.9	0.1310488	9.8	Chr8: 61.61	0.422467	40	0.0061169	0	0	1
A_51_P235720	117589	34130	Asb7	ankyrin repe	Chr7: 66.65	0.1066829	9.4	Chr15: 51.9	0.4223973	40	0.0061265	0	0.3336636	0.0957507
A_51_P339233	260297	12743	ORF31	open readin	Chr17: 34.6	0.213561	12.8	Chr15: 93.4	0.4220711	40	0.0061717	0	0	1
A_51_P283986	22413	20719	Wnt2	wingless-rel	Chr6: 18.03	-0.856341	16.7	Chr12: 75.7	0.4218688	40	0.0061999	0.35855	-0.188577	0.3562248
A_51_P255817	20778	21132	Scarb1	scavenger r	Chr5: 125.2	2.3183415	12.4	Chr3: 109.4	0.4213016	40	0.0062794	0.29676	-0.2424	0.2328274
A_51_P483635	13488	30992	Drd1	dopamine re	Chr13: 54.0	0.0856829	12.6	Chr15: 57.1	0.4211523	40	0.0063005	0.28361	-0.245944	0.2258538
A_51_P455946	170758	68433	Rac3	RAS-relate	Chr11: 120.	-0.121561	24.3	Chr6: 55.17	0.4211181	40	0.0063053	0.33525	0.0194864	0.9247251
A_51_P230904	56358	69215	Copz2	coatomer pr	Chr11: 96.8	1.0023902	20.4	Chr9: 54.53	0.4210512	40	0.0063148	0.18157	-0.070241	0.7331287
A_51_P499201	18150	5083	Npm3	nucleoplasn	Chr6: 85.07	-0.068293	7.4	Chr8: 22.14	0.4208967	40	0.0063367	0.27901	0.3744712	0.0594615
A_51_P468054	12180	7645	Smyd1	SET and MY	Chr6: 71.21	0.0356829	12	Chr19: 21.8	0.4206339	40	0.0063741	0.32571	-0.245444	0.2268294
A_51_P496381	71461	43672	Ptk7	PTK7 protei	Chr17: 46.5	-0.287171	12.5	Chr6: 76.18	0.4206248	40	0.0063754	0.29701	0.3093028	0.1241562
A_51_P123564	207474	65289	Kctd12b	RIKEN cDN	ChrX: 153.6	0.4745854	11.3	Chr8: 26.89	-0.419902	40	0.0064793	0.16789	-0.131368	0.5223779
A_51_P284503	68740		1110032D1	RIKEN cDN	Chr16: 89.0	0.1354878	12	Chr11: 74.1	0.4198919	40	0.0064808	0	-0.072299	0.7256028
A_51_P411874			--	Mus muscul	Chr18: 36.6	-0.094854	10.9	Chr16: 88.0	-0.419854	40	0.0064864	0	0	1
A_51_P391626	208665	55943	Akr1d1	aldo-keto re	Chr6: 37.56	2.6727073	16.5	Chr4: 61.85	0.4196829	40	0.0065112	0	0.2194271	0.2814668
A_51_P140585	329695		D030034H0	hypothetica	Chr3: 88.08	0.002	13.2	Chr3: 154.3	-0.41957	40	0.0065276	0	0	1
A_51_P428688	14420	124	Galc	galactosylce	Chr12: 98.2	-0.453829	14.8	Chr11: 90.8	-0.419545	40	0.0065313	0.34553	0.0566744	0.7833223
A_51_P200529	246221	31942	Mpst	mercaptopy	Chr15: 78.4	1.7285122	8.6	Chr9: 51.15	0.4194722	40	0.0065419	0.25999	0.5200981	0.0064586
A_51_P351217	270160	56773	Rab39	RIKEN cDN	Chr9: 53.68	-0.068512	17.5	Chr7: 52.87	-0.419453	40	0.0065446	0.23975	-0.132201	0.5197197
A_51_P323903			--		Chr11: 23.3	0.1501463	8.5	Chr13: 108.	-0.419427	40	0.0065485	0	0	1
A_51_P307864	67507	12147	1700019N1	RIKEN cDN	Chr19: 58.7	0.6092195	10.4	Chr13: 45.9	0.4187419	40	0.0066492	0	-0.026858	0.8963792
A_51_P157537	102626	55836	AI874665	expressed s	Chr9: 107.2	-0.251415	11.5	Chr17: 45.5	0.4187301	40	0.006651	0.31214	0	1
A_51_P295053	18081	88815	Ninj1	ninjurin 1	Chr13: 49.1	1.2158293	11.8	Chr11: 50.7	0.4179782	40	0.0067631	0.34485	-0.027916	0.8923184
A_51_P484679			--	Mus muscul	Chr16: 90.9	-0.141244	14.1	Chr14: 118.	-0.417725	40	0.0068012	0	0	1
A_51_P163456			--		Chr1: 160.2	-0.135195	11.4	Chr6: 52.78	0.4176205	40	0.0068171	0	0	1
A_51_P508469	258830	115555	Olfr103		Chr17: 37.3	0.1976585	11.1	Chr2: 60.64	-0.417609	40	0.0068189	0	0.0460677	0.8231729
A_51_P277970	2542582		Pms1	postmeiotic	Chr1: 60.06	0.6910976	70.2	Chr12: 103.	-0.417528	40	0.006831	0	-0.030917	0.8808223
A_51_P429246	30840	8130	Fbxl6	F-box and le	Chr15: 76.5	0.5589756	11.3	Chr6: 89.34	0.4174715	40	0.0068396	0	0.2523343	0.2136386
A_51_P426066			--	Mus muscul	Chr8: 70.40	0.330439	13.1	Chr14: 79.6	0.4173982	40	0.0068507	0	0	1
A_51_P443920			BQ944428	Mus muscul	ChrUn: 1.00	1.2151219	15.3	Chr6: 76.18	0.4172984	40	0.0068659	0	0	1
A_51_P274506	21767	7975	Tex264	testis expre	Chr9: 106.6	1.1146585	23.9	Chr6: 138.4	0.4172569	40	0.0068722	0	0.2869256	0.1552669
A_51_P187222	68994		1500015L2	RIKEN cDN	Chr19: 20.4	1.9205854	19.1	Chr6: 76.18	0.4172535	40	0.0068728	0	0.2964321	0.1414374
A_51_P147139	257792		--		Chr9: 38.94	0.6497561	10	Chr4: 32.10	0.4172163	40	0.0068784	0	0	1
A_51_P348325	382406	41728	4933430F1	RIKEN cDN	Chr10: 99.1	-0.509829	11.2	Chr14: 118.	-0.41681	40	0.0069406	0	0	1
A_51_P124719	70829	10393	4633402D1	RIKEN cDN	Chr1: 121.5	-0.064366	14.2	Chr1: 108.6	0.4166418	40	0.0069664	0	0	1
A_51_P184766	22302		V2r11	vomeronasa	Chr14: 51.4	0.4218293	8.8	Chr8: 14.48	0.4163517	40	0.0070113	0	0	1
A_51_P240077	74295		1700092C1	RIKEN cDN	Chr2: 22.76	0.4114146	13.4	Chr6: 95.07	0.4162983	40	0.0070195	0	-0.00634	0.9754771
A_51_P513515	74562		Fer1l4	fer-1-like 4 (	Chr2: 156.0	0.5188537	10.2	Chr8: 109.4	0.4162646	40	0.0070248	0	-0.00547	0.9788412
A_51_P241074	26395	2063	Map2k1	mitogen act	Chr9: 64.18	-0.780073	15	Chr11: 90.8	-0.416261	40	0.0070253	0.35723	0.1502848	0.4636836
A_51_P473953	71560		8430436L1	RIKEN cDN	Chr3: 62.46	0.4633902	11.3	Chr17: 6.03	0.41616	40	0.007041	0	0	1
A_51_P137433	94116		Kifc5a	kinesin fami	Chr9: 51.84	-0.470171	13.4	Chr2: 104.0	-0.416039	40	0.0070598	0	0.2731616	0.1769522

A_51_P367196			AI835986		ChrUn: 1.00	0.1022927	13.2	Chr18: 57.2	0.4159898	40	0.0070675	0	0	1
A_51_P397454	51885	8690	76P	gamma tubu	Chr2: 121.1	0.2647073	30.2	Chr2: 125.4	-0.415937	40	0.0070757	0.16638	0	1
A_51_P160714	11657	405	Alb1	albumin 1	Chr5: 90.47	0.9498049	8.9	Chr15: 19.1	0.4159064	40	0.0070805	0.404	0	1
A_51_P194306	214345	44445	Lrrc1	leucine-rich	Chr9: 77.43	-2.425732	8.9	Chr5: 64.75	0.4158376	40	0.0070913	0	0.5731305	0.0022097
A_51_P443693	276952	14108	B230331P1	hypothetica	Chr11: 83.4	0.7465854	20.5	Chr6: 76.18	0.4153608	40	0.0071662	0.22294	0	1
A_51_P168613			--	Mus muscul	Chr10: 84.3	-0.021	12.9	Chr9: 83.87	0.4151142	40	0.0072052	0	0	1
A_51_P139320	13180	57028	Pcbd	6-pyruvoyl-t	Chr10: 61.0	1.1582195	17.3	Chr13: 95.4	0.4149819	40	0.0072262	0.2215	0	1
A_51_P269303	214597	22943	--		Chr9: 45.95	1.6115854	11.7	Chr6: 76.18	0.4147808	40	0.0072582	0.2386	0	1
A_51_P342207	13097	117948	Cyp2c38	cytochrome	Chr19: 39.4	2.8799512	17	Chr19: 38.8	-0.414619	40	0.007284	0.21658	0.2252087	0.2686604
A_51_P420338	13512	55513	Dsg3	desmoglein	Chr18: 20.5	0.5115122	18.6	Chr19: 52.8	0.4144078	40	0.0073179	0.36277	0.1781602	0.3838847
A_51_P210210	114652	11896	Ly6g5c	lymphocyte	Chr17: 35.1	0.3431951	10.9	Chr6: 90.35	0.4141752	40	0.0073554	0.1876	-0.094519	0.6460318
A_51_P494342	406217	18948	Bex4	brain expres	ChrX: 136.1	-2.584341	20.2	Chr14: 72.1	0.4139892	40	0.0073854	0.15453	-0.146408	0.475424
A_51_P340978	228993	76562	BC019537	cDNA sequ	Chr2: 180.7	0.0026585	8.2	Chr2: 5.846	0.4139226	40	0.0073962	0.24363	0	1
A_51_P212135			Olfr1406		Chr1: 173.1	0.4106098	10.2	Chr7: 132.2	0.4138952	40	0.0074007	0	0.2688812	0.1841063
A_51_P483159	320415	3849	2010323F1	RIKEN cDN	Chr2: 119.1	1.8936829	13	Chr2: 114.1	0.4138601	40	0.0074064	0.23947	0	1
A_51_P385790			--	Mus muscul	Chr3: 73.19	0.0977317	11	Chr2: 5.846	0.4137357	40	0.0074266	0	0	1
A_51_P356602			--		Chr2: 125.6	0.4309024	11.3	Chr16: 73.7	0.4136213	40	0.0074452	0	0	1
A_51_P102417	56708	8299	Bsf3	B-cell stimu	Chr19: 4.22	0.297439	21.8	Chr19: 48.3	0.4135766	40	0.0074525	0.29952	0	1
A_51_P450298	69876	18413	2010013E0	RIKEN cDN	Chr4: 151.9	-0.02339	15	Chr6: 55.17	0.413319	40	0.0074946	0	0	1
A_51_P110938			6330411N0	RIKEN cDN	Chr12: 40.7	0.3170976	11.1	Chr4: 143.1	0.413313	40	0.0074956	0	0	1
A_51_P400957	241158	9561	4930483I10	hypothetica	Chr1: 92.87	0.0338293	3.8	Chr18: 58.4	0.4133121	40	0.0074958	0	0	1
A_51_P437045	12738	9621	Cldn2	claudin 2	ChrX: 139.8	0.4825854	8.6	Chr4: 29.26	0.4133047	40	0.007497	0.41504	0.3949705	0.0458306
A_51_P351562	75623	16344	1700029F0	RIKEN cDN	Chr1: 44.08	0.3005366	14.1	Chr1: 39.52	-0.413236	40	0.0075082	0	-0.011485	0.9555925
A_51_P355062	6934		Tcf7l2	transcriptior	--	0.5270732	18.3	Chr6: 76.18	0.4132296	40	0.0075093	0	0.4643827	0.01685
A_51_P207350	26403	37618	Map3k11	mitogen act	Chr19: 5.69	0.7854878	14.3	Chr15: 102.	0.4130032	40	0.0075466	0.37817	0.5453245	0.0039621
A_51_P419900	27965	9603	Spg21	DNA segme	Chr9: 65.48	-0.330756	16.1	Chr7: 48.99	0.4128853	40	0.007566	0.30762	0.0537279	0.794344
A_51_P205740	117146	13775	Ube3b	ubiquitin pr	Chr5: 114.4	0.1127073	9.7	Chr5: 115.1	0.4124304	40	0.0076415	0.22968	0.1765294	0.3883237
A_51_P235893	80981	1255	Arf4l	ADP-ribosyl	ChrUn: 1.00	1.7765366	17.8	Chr6: 76.18	0.4122966	40	0.0076639	0.27591	0	1
A_51_P296682	13603	40707	Opn3	opsin (ence	Chr1: 175.6	-0.846902	10.4	Chr7: 134.8	-0.412211	40	0.0076781	0.19878	-0.21258	0.2971253
A_51_P480598	21785	3956	Tff2	trefoil factor	Chr17: 31.1	-1.758634	10	Chr8: 95.70	0.4121601	40	0.0076867	0.39557	0.0136467	0.9472463
A_51_P422223	321010		1700006J14	Rik	Chr10: 120.	1.4084634	16.7	Chr6: 76.18	0.411852	40	0.0077384	0	-0.062974	0.7598949
A_51_P247393	320625		9330101J02	RIKEN cDN	Chr7: 139.6	-1.257122	13.5	Chr11: 67.3	-0.411726	40	0.0077597	0	-0.105938	0.6065057
A_51_P311342	76445		2310037D0	RIKEN cDN	Chr6: 50.20	-0.096878	61.3	Chr6: 49.65	-0.411529	40	0.007793	0	0	1
A_51_P397934	170483	15606	Grin3b	glutamate re	Chr10: 79.9	-0.207073	15	Chr6: 126.8	-0.411363	40	0.0078212	0.21807	-0.047207	0.8188715
A_51_P150489	83492	69487	Mlze	melanoma-(	Chr15: 63.7	0.4817317	7.2	Chr12: 5.94	0.4111357	40	0.0078599	0.22782	0.0805714	0.6955998
A_51_P448545	72184	27849	2810406K1	RIKEN cDN	Chr7: 99.47	-0.040561	12.2	Chr7: 104.1	-0.410967	40	0.0078888	0	-0.213722	0.2944768
A_51_P281700	16549		Khsrp	KH-type spl	Chr17: 57.0	0.4440732	18.8	Chr6: 76.18	0.4108845	40	0.0079029	0.32493	0.025008	0.9034822
A_51_P184645	257966		Olfr128		Chr17: 37.9	0.8927561	17.1	Chr16: 89.8	0.4108373	40	0.007911	0	-0.311188	0.121761
A_51_P388580	434481		LOC43448	hypothetica	Chr17: 39.8	0.9546585	16.9	Chr11: 42.3	0.4108215	40	0.0079137	0	0	1
A_51_P517525	271711	16305	A830020B0	RIKEN cDN	Chr1: 72.30	-0.357439	12.1	Chr18: 28.2	-0.410559	40	0.0079588	0	0	1
A_51_P506866	73336	85697	1700036D2	RIKEN cDN	Chr9: 110.8	0.9978293	12.6	Chr2: 128.3	0.4103972	40	0.0079869	0.14161	0.0052255	0.979788
A_51_P377035	18803	1997	Cded	cell differen	Chr2: 160.7	0.0739756	25.6	Chr6: 149.0	0.4103106	40	0.0080019	0.32624	0	1
A_51_P142046	66431	49831	1810049H1	RIKEN cDN	Chr11: 120.	0.6828293	22.9	Chr7: 48.99	0.4102906	40	0.0080053	0	0.0292137	0.8873445
A_51_P315646	18041	5463	Nfs1	nitrogen fixa	Chr2: 156.1	0.0447805	12.7	Chr7: 48.99	0.4101939	40	0.0080221	0.24884	0.125298	0.5419368
A_51_P427917	218624	51395	Glmr	gp130-like r	Chr13: 112.	0.3198293	11.7	Chr10: 31.0	0.4100118	40	0.0080538	0.36408	0	1
A_51_P437188	67788	12189	Sfr1	SWI5 deper	Chr19: 47.7	-0.753073	51.5	Chr19: 46.5	-0.40997	40	0.008061	0.21164	0	1
A_51_P222042	257821		--		Chr2: 36.53	0.0784634	14.9	Chr1: 171.2	0.4097993	40	0.0080909	0	0	1
A_51_P504991	237886	45432	Slfn10	RIKEN cDN	Chr11: 83.0	-0.19461	14.9	Chr11: 89.7	-0.409759	40	0.008098	0.20314	0.3229313	0.1075943
Funding for The GeneNetwork: NIAAA (U01AA13499, U24AA13513), NIDA, NIMH, and NIAAA (P20-DA21131), NCI MMHCC (U01CA105417), and NCRR (U01NR 105417)														
PLEASE RETAIN DATA SOURCE INFORMATION WHENEVER POSSIBLE														

Supplementary Table 4
Citations: Please see http://www.genenetwork.org/reference.html
Trait : Liver LOWESS Stnfd 01/06 Males : A_51_P506843
Database : UNC Agilent G4121A Liver LOWESS Stanford (Jan06) Males
Date : October 08, 2017
Time : 23:22 GMT
Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record ID	Gene ID	lomologene I	Symbol	Description	Location (Chr: Mb)	Mean Expr	lax LR	x LRS Location (Chr: M	Sample rho	N Case	ample p(rh	Lit Corr	Tissue rho	Tissue p(rho)
A_51_P506843	22337	37297	Vdr	vitamin D receptor	Chr15: 97.859204	0.448560976	11.2	ChrX: 10.699900	1	40	0	1	1	8.88415E-08
A_51_P323732	78271		5330427O13Rik	RIKEN cDNA 5330427C	Chr14: 64.147861	-0.15104878	18.2	Chr16: 44.259473	-0.715900563	40	4.512E-08	0	0	1
A_51_P503247	75470	20043	1700007L12Rik	RIKEN cDNA 1700007L	Chr9: 106.515824	0.23797561	13.5	Chr16: 76.657597	0.653705441	40	1.983E-06	0	0	1
A_51_P277836	69347		1700008P02Rik	RIKEN cDNA 1700008P	Chr3: 6.615528	-0.00112195	9.2	Chr16: 76.657597	-0.636585366	40	4.723E-06	0	0.334700855	0.095077118
A_51_P193808	227288	68074	Il8ra	interleukin 8 receptor, al	Chr1: 74.192782	0.047121951	8.9	Chr6: 3.466869	0.634099437	40	5.329E-06	0.27822	0.337435897	0.092280133
A_51_P385940	102155		AI256840	expressed sequence AI2	Chr2: 167.642732	-0.10036585	10.8	Chr12: 100.565815	0.630909944	40	6.212E-06	0	0	1
A_51_P308279	240690		St18	suppression of tumorige	Chr1: 6.842139	-0.52446341	10.1	Chr2: 60.648325	0.62565666	40	7.96E-06	0.2379	0.018803419	0.928127746
A_51_P291860			--		Chr19: 13.726331	0.131439024	14	Chr12: 105.514945	0.619324578	40	1.066E-05	0	0	1
A_51_P472998	22662		NG_001485.1		ChrUn: 1.000000	0.151829268	11.8	Chr16: 76.657597	0.618574109	40	1.103E-05	0	0	1
A_51_P518230	75528	51840	1700018L24Rik	RIKEN cDNA 1700018L	Chr8: 11.855685	0.140707317	8.2	Chr13: 91.702351	0.617636023	40	1.151E-05	0	0.184273504	0.365853172
A_51_P223994	72882		2900022L05Rik	RIKEN cDNA 2900022L	Chr11: 69.545401	0.425317073	8.1	Chr9: 114.473887	0.611116323	40	1.539E-05	0	0	1
A_51_P394074			4930433D19Rik	RIKEN cDNA 4930433D	Chr6: 94.603858	0.086463415	17.7	Chr13: 98.858288	0.61097561	40	1.549E-05	0	0	1
A_51_P138818	14897	44226	Gtl6	gene trap locus 6	Chr1: 84.728375	0.020146341	11.2	Chr7: 144.447601	-0.600703565	40	2.411E-05	0.25181	0	1
A_51_P303604			--	Mus musculus transcrib	Chr5: 24.463009	0.060804878	11.4	Chr15: 8.299029	-0.600422139	40	2.44E-05	0	0	1
A_51_P172282			BI731507		ChrUn: 1.000000	0.166658537	16.2	Chr16: 44.259473	-0.592964353	40	3.327E-05	0	0	1
A_51_P511259	71240	79672	Osbpl7	oxysterol binding proteir	Chr11: 97.066882	0.134853659	17	Chr5: 132.127238	-0.591651032	40	3.511E-05	0	0.275213675	0.173110614
A_51_P247472	74012	55701	Rap2b	RAP2B, member of RAS	Chr3: 61.362528	0.539512195	5	Chr13: 98.858288	0.58836773	40	4.011E-05	0.19284	-0.10974359	0.592190512
A_51_P414188			--	Mus musculus transcrib	Chr7: 109.550245	0.414658537	9.1	Chr16: 76.657597	0.586022514	40	4.406E-05	0	0	1
A_51_P412369	72077	20993	Gcnt3	RIKEN cDNA 2010013H	Chr9: 70.033637	0.325317073	15.9	Chr16: 76.657597	0.58564728	40	4.472E-05	0.29257	0.357264957	0.073840984
A_51_P243963	56078	21413	Car5b	carbonic anhydrase 5b,	ChrX: 163.979153	-0.2067561	13.8	Chr16: 76.657597	0.583958724	40	4.782E-05	0.31455	-0.026671226	0.89709553
A_51_P309805	259056		Olfr584		Chr7: 103.086369	0.375073171	12.2	Chr2: 41.678058	0.581332083	40	5.304E-05	0	0.367521368	0.065500961
A_51_P197899	53859	2940	Map3k14	mitogen-activated protei	Chr11: 103.265316	0.511609756	9.1	Chr16: 76.657597	0.580347092	40	5.512E-05	0.37824	0.272478632	0.177554066
A_51_P308029	69894	12338	2010107G23Rik	RIKEN cDNA 2010107G	Chr10: 62.108595	-1.23778049	12.2	Chr15: 12.672705	-0.57879925	40	5.854E-05	0	0.097110619	0.636973843
A_51_P435968	106869	8649	Tnfaip8	RIKEN cDNA E130304C	Chr18: 50.091643	-4.51768293	9.7	Chr16: 45.072615	-0.576809419	40	6.323E-05	0.29318	0.258119658	0.202210546
A_51_P408259	81898	6696	Sf3b1	splicing factor 3b, subur	Chr1: 54.985861	-0.39990244	11.5	Chr13: 108.279644	-0.573123827	40	7.28E-05	0.27505	-0.405539414	0.039837992
A_51_P315931	24059	38077	Slco2a1	solute carrier organic ar	Chr9: 103.086719	0.335707317	11.1	Chr9: 116.573136	-0.570590994	40	8.012E-05	0.33004	0.192478632	0.344577957
A_51_P138596	66167	41078	1110017O22Rik	RIKEN cDNA 1110017C	Chr2: 158.470367	0.022926829	13.7	Chr16: 76.657597	-0.569183865	40	8.446E-05	0	0	1
A_51_P300236	327291		Cbx2	chromobox homolog 2 (	Chr11: 119.029138	0.229341463	9.6	Chr17: 43.824635	0.568433396	40	8.686E-05	0	0.298512571	0.138532836
A_51_P369091	107058		4932409F03Rik	RIKEN cDNA 4932409F	Chr18: 14.900213	-0.02853659	10.4	Chr16: 69.289612	0.566369606	40	9.379E-05	0	0.312136752	0.120673239
A_51_P275174	269610	56712	B230399N07	hypothetical protein B23	Chr4: 152.387094	-0.40058537	11.8	Chr16: 76.657597	0.564165103	40	0.0001017	0.28898	0	1
A_51_P294778	232853		5730403M16Rik	RIKEN cDNA 5730403M	Chr7: 7.114860	-0.29519512	10.8	Chr18: 56.459031	0.562570356	40	0.0001079	0	0.552136752	0.003974163
A_51_P461832	21374	2404	Tbp	TATA box binding protei	Chr17: 15.514368	0.177878049	18.5	Chr16: 76.657597	0.559052533	40	0.0001225	0.36129	-0.020854701	0.920166146
A_51_P100361	75678	41495	1810043M15Rik	RIKEN cDNA 1810043M	Chr13: 49.461888	0.314829268	16.9	Chr16: 76.657597	0.558020638	40	0.0001272	0.19897	0	1
A_51_P437119			Olfr629		Chr7: 103.740749	0.091487805	12.6	Chr16: 44.259473	0.557692308	40	0.0001287	0	0.271499406	0.179706947
A_51_P307847	94118		Kifc5c	kinesin family member (	Chr10: 117.594396	0.056804878	8.9	Chr9: 113.291115	0.554409006	40	0.0001447	0.15758	-0.254060527	0.210416777
A_51_P363218	80861	69371	D11Lgp2e	DNA segment, Chr 11, l	Chr11: 100.702771	0.092536585	8.3	Chr13: 119.270223	0.553470919	40	0.0001495	0.2315	0	1
A_51_P196213	259109	88420	Olfr978		Chr9: 39.993860	0.27002439	9.6	Chr18: 41.781029	0.552861163	40	0.0001528	0	0.549401709	0.004187948
A_51_P129360	19227	2113	Pthlh	parathyroid hormone-lik	Chr6: 147.252404	-0.31126829	10.5	Chr17: 27.451463	0.551923077	40	0.0001579	0.42891	-0.406495726	0.040317082
A_51_P339997	337248		Aldh6a1	aldehyde dehydrogenas	Chr12: 84.442320	0.056439024	13.5	Chr8: 44.622962	0.551594747	40	0.0001598	0	-0.214358974	0.291620587
A_51_P363495	319831		5031434C07Rik	RIKEN cDNA 5031434C	Chr6: 112.288251	0.216219512	12.4	Chr18: 74.736175	-0.55032833	40	0.000167	0	0.292015733	0.147747375
A_51_P190331	72843	8235	2810470D21Rik	RIKEN cDNA 2810470D	Chr10: 85.892843	-0.211	9.7	Chr17: 43.824635	0.549484053	40	0.000172	0.24094	0	1
A_51_P444893	72440	12875	Rhno1	RAD9-HUS1-RAD1 inte	ChrUn: 1.000000	0.216487805	14.4	Chr16: 44.259473	-0.549296435	40	0.0001731	0	0	1
A_51_P411335	18362	79374	Olfr61	olfactory receptor 61	Chr7: 140.638329	0.254512195	8.8	Chr16: 44.259473	0.548874296	40	0.0001757	0	0.297094017	0.140382236
A_51_P340978	228993	76562	BC019537	cDNA sequence BC019	Chr2: 180.732260	0.002756098	15.5	Chr16: 39.630837	0.548358349	40	0.0001788	0.24363	0	1
A_51_P286142	66136	40960	Znrd1	RIKEN cDNA 1110014N	Chr17: 36.954502	-0.14078049	9.7	Chr11: 79.547198	0.547138837	40	0.0001865	0	0.087863248	0.668511669
A_51_P340484	11698	7625	Ambn	ameloblastin	Chr5: 88.465290	-0.00358537	9.8	Chr15: 8.299029	-0.546529081	40	0.0001905	0.27392	0.453675214	0.020918663
A_51_P278070			BE980334	Mus musculus transcrib	ChrUn: 1.000000	0.542121951	12.8	Chr9: 31.156625	0.545168856	40	0.0001996	0	0	1
A_51_P231597	269513	18265	E130310K16Rik	RIKEN cDNA E130310K	Chr4: 20.469477	-0.1785122	12.2	Chr16: 76.657597	0.545028143	40	0.0002006	0.14523	0.124102564	0.544285281
A_51_P307277	98429		--	Mus musculus transcrib	Chr1: 136.259168	-0.01746341	9.5	Chr9: 121.477873	-0.544324578	40	0.0002055	0	0	1
A_51_P187872	77215		A030007E19Rik	RIKEN cDNA A030007E	Chr7: 142.202932	-0.06421951	9.8	Chr18: 84.126263	-0.544090056	40	0.0002071	0	0	1
A_51_P349358	257799		--		Chr1: 173.097714	0.121658537	9.9	Chr7: 3.706755	-0.543621013	40	0.0002105	0	0	1
A_51_P205035			--		Chr2: 93.292906	-0.01790244	9.9	Chr5: 66.502623	-0.543433396	40	0.0002118	0	0	1
A_51_P407053	12505	508	Cd44	CD44 antigen (Indian bl	Chr2: 102.834263	0.46404878	13.1	Chr16: 76.657597	0.543011257	40	0.0002149	0.3274	0.373675214	0.060862965
A_51_P454376			Tnfrsf26	tumor necrosis factor re	--	-0.07056098	7.4	Chr9: 106.081354	0.541791745	40	0.000224	0	0.024957265	0.904266584
A_51_P324690	93694	83377	Ocil	osteoclast inhibitory lect	Chr6: 129.186320	1.025585366	19	Chr6: 126.804328	-0.541651032	40	0.000225	0.32036	0	1
A_51_P285651	72391	3805	Cdkn3	cyclin-dependent kinase	Chr14: 46.767998	0.179487805	10.5	Chr13: 107.682463	-0.541369606	40	0.0002272	0.22606	0.448888889	0.022441056
A_51_P195825	72236	10194	Tsnaxip1	translin-associated facto	Chr8: 105.843974	0.072243902	10.4	Chr16: 57.552158	-0.539071295	40	0.0002454	0.1231	-0.018119658	0.930783177
A_51_P399143	19660	3070	Rbp2	retinol binding protein 2,	Chr9: 98.509526	0.208097561	13	Chr13: 81.107254	0.538977486	40	0.0002462	0.38923	0.192478632	0.344577957
A_51_P354683			4930553F24Rik	RIKEN cDNA 4930553F	Chr5: 31.253264	-0.86468293	10.1	Chr5: 85.461197	-0.53663227	40	0.0002663	0	0	1
A_51_P207350	26403	37618	Map3k11	mitogen activated protei	Chr19: 5.696766	0.817902439	9.8	Chr2: 139.724059	0.535272045	40	0.0002785	0.37817	0.440683761	0.025262524
A_51_P265016	106369	50340	Ypel1	yippee-like 1 (Drosophila	Chr16: 17.086112	-1.89880488	13	Chr12: 105.514945	-0.53391182	40	0.0002913	0.2069	-0.091282051	0.656343102
A_51_P200107	67899	12207	2010110K16Rik	RIKEN cDNA 2010110K	Chr9: 118.064584	-0.41943902	9.4	Chr7: 49.397122	-0.533208255	40	0.0002981	0	0.124102564	0.544285281
A_51_P143495	319845	44480	E130103I17Rik	RIKEN cDNA E130103I1	Chr9: 22.679884	-0.2975122	9.6	Chr17: 40.571109	-0.533114447	40	0.0002991	0.18542	0	1
A_51_P479427	246102	65275	Rttn	rotatin	Chr18: 89.110690	-0.08853659	11.6	Chr5: 123.288709	0.533114447	40	0.0002991	0.21893	-0.100854701	0.622738896
A_51_P238217	74325	37532	Cltb	clathrin, light polypeptide	Chr13: 54.593258	0.290902439	8.2	Chr16: 76.657597	0.532410882	40	0.000306	0.17155	-0.158290598	0.438202091
A_51_P397056	15494		Hsd3b3	hydroxysteroid dehydrog	Chr3: 98.741547	0.991414634	10.1	Chr15: 12.672705	-0.532317073	40	0.000307	0.23873	0.172337154	0.399867471
A_51_P263473	24050	99740	Sept3	septin 3 (neuronal-speci	Chr15: 82.291810	-1.49258537	10.5	Chr2: 65.302067	0.531566604	40	0.0003146	0.23359	-0.308717949	0.124960341
A_51_P474701	14121	55467	Fbp1	fructose bisphosphatase	Chr13: 62.864815	0.217731707	19.1	Chr16: 76.657597	-0.531050657	40	0.0003199	0.32336	0.330598291	0.099393034
A_51_P345022	239673	72272	4732456N10	hypothetical protein 473	Chr15: 101.556283	0.258804878	8	Chr7: 68.116673	0.52978424	40	0.0003334	0	0	1
A_51_P383293	73234	19210	3110079O15Rik	RIKEN cDNA 3110079C	Chr1: 87.475387	0.301829268	9.5	Chr9: 116.573136	0.529690432	40	0.0003344	0.20246	0.292015733	0.147747375
A_51_P369675	258838	105208	Olfr617		Chr7: 103.584340	0.43695122	10.7	Chr17: 66.436199	0.529268293	40	0.000339	0	0.027008547	0.896330131
A_51_P187574			--		Chr13: 16.213246	0.855585366	11.9	Chr16: 76.657597	0.528564728	40	0.0003468	0	0	1
A_51_P108038	56544	84832	LOC56544	tissue-type vomeronasa	Chr3: 64.103056	0.320804878	17.9	Chr16: 45.072615	-0.528283302	40	0.0003499	0.20075	0	1
A_51_P217386	243914	16408	Lgi4	leucine-rich repeat LGI f	Chr7: 31.070290	0.256756098	18	Chr16: 39.118020	0.52804878	40	0.0003526	0.26545	-0.07693623	0.708731634
A_51_P302852	80128		Trim46	tripartite motif protein 46	Chr3: 89.235050	0.67404878	11.7	Chr7: 3.706755	-0.527861163	40	0.0003547	0	-0.297094017	0.140382236
A_51_P506284	67399		1110003B01Rik	RIKEN cDNA 1110003B	Chr13: 55.508778	-0.07097561	11.1	Chr16: 59.839107	0.526500938	40	0.0003706	0.2986	0	1
A_51_P137913	72961		2900052E22Rik	RIKEN cDNA 2900052E	Chr7: 45.175471	-0.80773171	14.8	Chr16: 76.657597	0.525750469	40	0.0003796	0.27784	0	1
A_51_P394281	227671	110677	Fs	forssman glycolipid synt	Chr2: 28.504939	0.171512195	11	Chr7: 3.706755	-0.52532833	40	0.0003847	0.21687	0	1
A_51_P118945	16184	360	Il2ra	interleukin 2 receptor, al	Chr2: 11.692814	0.633853659	10.3	Chr18: 76.660819	0.525	40	0.0003888	0.37224	0.200718074	0.325516933
A_51_P199249	258836	17409	Olfr272		Chr4: 52.911279	0.217243902	10.8	Chr18: 43.154668	0.524390244	40	0.0003964	0	0.224615385	0.268699015
A_51_P392261	16679	1717	Krt2-10	keratin complex 2, basic	Chr15: 101.479692	0.068097561	11.3	Chr1: 166.983006	0.524108818	40	0.0004	0.26092	0	1
A_51_P482322	171269	110880	V1rh10		Chr13: 22.827303	0.043560976	9.1	Chr16: 36.946690	-0.524108818	40	0.0004	0	0.33219303	0.097313037
A_51_P497332	18109	3922	Nmyc1	neuroblastoma myc-rela	Chr12: 12.937506	0.146804878	11.3	Chr15: 82.453222	-0.523968105	40	0.0004018	0.3952	0	1
A_51_P356962	213469	16406	Lgi3	leucine-rich repeat LGI f	Chr14: 70.538213	-3.22209756	11.7	Chr7: 3.706755	-0.523733583	40	0.0004048	0.28241	-0.247179487	0.222523872
A_51_P285279	83885	56330	Slc25a2	solute carrier family 25 (	Chr18: 37.637464	0.19795122	7.8	Chr16: 39.630837	0.523499062	40	0.0004078	0	-0.122051282	0.551014853
A_51_P182503	234549	45429	C030036P15Rik	RIKEN cDNA C030036F	Chr8: 88.170939	0.225560976	12.9	Chr16: 82.141058	0.522983114	40	0.0004145	0	0	1
A_51_P375509	101685	45499	5830435K17Rik	RIKEN cDNA 5830435K	Chr7: 46.992791	-0.08312195	12.2	Chr2: 9.829660	0.52260788	40	0.0004195	0	0	1
A_51_P341443	235386	16057	C630028N24Rik	RIKEN cDNA C630028N	Chr9: 54.920395	-0.0847561	8.6	Chr18: 70.785270	-0.521060038	40	0.0004404	0	0.007179487	0.973350932
A_51_P436763	30925	49945	Ly108	lymphocyte antigen 108	Chr1: 171.942851	0.068682927	13.6	Chr8: 75.384272	0.520075047	40	0.0004543	0.26951	0	1
A_51_P422429	17536	7846	Mrg1	myeloid ecotropic viral ir	Chr2: 115.863394	-1.01978049	18.4	Chr7: 16.461335	-0.519793621	40	0.0004583	0.26482	0.014700855	0.944070801
A_51_P450518	72612	32374	C4orf27	human chromosome 4 c	Chr8: 60.907486	-1.53997561	16.7	Chr8: 56.006199	-0.519699812	40	0.0004596	0	0	1
A_51_P341896	320893		6430562O15Rik	RIKEN cDNA 6430562C	Chr13: 99.409299	-0.03312195	11.3	Chr17: 27.451463	-0.518761726	40	0.0004733	0	0	1
A_51_P306015	67648		4930542C12Rik	RIKEN cDNA 4930542C	Chr9: 78.395204	0.072487805	10.9	Chr18: 74.736175	-0.518011257	40	0.0004845	0	0.442468805	0.023606283
A_51_P247496	77220	14175	C030003D03Rik	RIKEN cDNA C030003D	Chr10: 26.079226	0.402195122	15.2	Chr17: 43.824635	-0.51782364	40	0.0004873	0	-0.07965812	0.698052269
A_51_P301674	103306		Apc2	adenomatosis polyposis	Chr10: 80.318115	0.221341463	12.2	Chr16: 44.259473	-0.517260788	40	0.0004959	0	-0.61025641	0.001174544
A_51_P476646	244373	5193	BC036333	cDNA sequence BC036	Chr8: 27.037193	-0.02119512	14.5	Chr13: 108.279644	0.517073171	40	0.0004988	0.22026	0	1
A_51_P496683	53418	2804	B4galt2	UDP-Gal:betaGlcNAc b	Chr4: 117.873839	-0.55770732	14.5	Chr16: 59.839107	0.515712946	40	0.0005203	0.25227	-0.231452991	0.254091587
A_51_P367519	74708	16553	4930521A18Rik	RIKEN cDNA 4930521A	Chr1: 31.223897	-0.19960976	7	Chr15: 8.299029	-0.515619137	40	0.0005218	0	0.395555556	0.046428822
A_51_P434713	71863	51874	1700019O17Rik	RIKEN cDNA 1700019C	Chr1: 86.427812	0.814658537	15.1	Chr2: 139.724059	0.515150094	40	0.0005294	0	0.351794872	0.078614144
A_51_P154550			--		Chr6: 52.538863	-0.0155122	14.8	Chr16: 44.259473	-0.514305816	40	0.0005433	0	0	1
A_51_P172853	12475	493	Cd14	CD14 antigen	Chr18: 36.725315	-0.19070732	9.2	Chr16: 76.657597	0.513649156	40	0.0005543	0.33441	0.137094017	0.502592641
A_51_P468609	319231		6720487G11Rik	RIKEN cDNA 6720487G	Chr13: 67.139192	-0.16485366	10.1	Chr16: 74.917702	-0.513555347	40	0.0005559	0	-0.319370837	0.111753573
A_51_P481693	50527	49392	Ero1l	ERO1-like (oxidative ER	Chr7: 105.252888	-0.06534146	14.4	Chr13: 105.184837	0.513555347	40	0.0005559	0.31554	0.375726496	0.05937576
A_51_P429152	319478	11878	9330210J02Rik	RIKEN cDNA 9330210J	Chr3: 134.244894	0.210634146	9.2	Chr16: 45.072615	-0.513320826	40	0.0005599	0.20584	0	1
A_51_P333060	324724		Dicer1	Dicer1 endoribonucleas	Chr12: 104.694473	0.326097561	29.1	Chr12: 103.031681	0.512664165	40	0.0005713	0	-0.317606838	0.114042996
A_51_P164495	66498	11436	1500034J01Rik	RIKEN cDNA 1500034J	Chr8: 71.475898	-0.17090244	12.9	Chr7: 104.149021	0.512101313	40	0.0005812	0	-0.197948718	0.33082185
A_51_P165424	67296	15442	Socs4	suppressor of cytokine s	Chr14: 47.290558	0.385390244	12.4	Chr11: 76.947549	0.511585366	40	0.0005904	0.26764	0.384615385	0.053259104
A_51_P182631	17836	110674	Mug1	murinoglobulin 1	Chr6: 121.888936	1.318926829	8.5	ChrX: 10.699900	-0.511444653	40	0.0005929	0.31153	0.16034188	0.432221059
A_51_P377570	18609	175	Ipf1	insulin promoter factor 1	Chr5: 147.275020	0.025073171	10	Chr4: 3.703668	0.51130394	40	0.0005954	0.30897	0	1
A_51_P310676	14428	2863	Galr2	galanin receptor 2	Chr11: 116.283400	0.657829268	14.2	Chr16: 39.630837	0.511022514	40	0.0006006	0.3282	0.205470085	0.312468885
A_51_P197516	69807	36327	Trim32	tripartite motif protein 32	Chr4: 65.615284	-0.7062439	15.4	Chr16: 76.657597	0.510178236	40	0.0006161	0.34791	-0.228717949	0.259870048
A_51_P439836			--		ChrX: 75.145081	-1.11619512	14.4	Chr8: 30.634132	0.509756098	40	0.000624	0	0	1
A_51_P170844	74672		4930449A18Rik	RIKEN cDNA 4930449A	Chr3: 59.839380	-0.01536585	12.3	Chr16: 44.259473	-0.509615385	40	0.0006267	0	0.311452991	0.121521775
A_51_P354382			AK078768	Mus musculus 15 days (	ChrUn: 1.000000	0.054	11.1	Chr1: 173.746749	-0.509099437	40	0.0006365	0	0	1
A_51_P244565	18363	105179	Olfr62	olfactory receptor 62	Chr4: 118.666158	0.14197561	9.6	Chr9: 31.156625	-0.508958724	40	0.0006392	0	0.548127893	0.003744001
A_51_P291749	111175	69255	Pecr	peroxisomal trans-2-enc	Chr1: 72.259265	0.136219512	16.3	Chr15: 13.042333	-0.508771107	40	0.0006429	0.17761	0.046837607	0.820231189
A_51_P207237	16678	38146	Krt2-1	keratin complex 2, basic	Chr15: 101.848473	0.58995122	15.8	Chr16: 76.657597	0.50858349	40	0.0006465	0.28566	0	1
A_51_P372762	19009	7703	Pou6f1	POU domain, class 6, tr	Chr15: 100.583387	-0.04904878	9.7	Chr8: 44.622962	0.508536585	40	0.0006474	0.33949	-0.260854701	0.197340181
A_51_P429602	67503		1700001G17Rik	RIKEN cDNA 1700001G	Chr1: 33.670638	-0.04012195	15.4	Chr7: 16.461335	-0.508489681	40	0.0006483	0.17676	0.113846154	0.578316353
A_51_P381428	22526	86004	Xmr	Xlr-related, meiosis regu	ChrX: 29.976343	-0.02580488	9.5	Chr12: 26.307604	0.508442777	40	0.0006492	0.14186	0.18017094	0.376777235
A_51_P501688	68444		Cyp2d13	cytochrome P450, famil	Chr15: 82.636413	1.044634146	15.3	Chr16: 74.917702	-0.507833021	40	0.0006612	0.18893	0.313504274	0.118989408
A_51_P385749	68995	5803	Mcts1	RIKEN cDNA 1500019M	ChrX: 38.613341	0.521219512	10.1	Chr9: 114.473887	-0.507598499	40	0.0006659	0.077047	-0.401709402	0.042906044
A_51_P131751	258903	73985	Olfr1217		Chr2: 89.023153	-0.00014634	15.6	Chr16: 74.917702	0.507223265	40	0.0006734	0	0.285518896	0.157392071
A_51_P393518			--	Mus musculus, clone IM	Chr1: 150.563304	-1.07792683	10	ChrX: 130.474730	-0.506707317	40	0.0006839	0	0	1
A_51_P232921			--		Chr10: 116.421136	0.306585366	10.2	Chr9: 24.616289	0.5065197	40	0.0006878	0	0	1
A_51_P130383	66869	116065	1200003I07Rik	RIKEN cDNA 1200003I0	Chr8: 69.705846	-0.66285366	38.9	Chr8: 67.907992	0.505675422	40	0.0007053	0.21206	-0.288205128	0.153082676
A_51_P462658	16528	7391	Kcnk4	potassium channel, sub	Chr19: 6.925699	-0.4182439	12.1	Chr16: 76.657597	0.505253283	40	0.0007142	0.24218	-0.311452991	0.121521775
A_51_P246738	75524	87066	1700018C11Rik	RIKEN cDNA 1700018C	Chr4: 63.608519	-0.01582927	10.6	Chr2: 104.427306	-0.504737336	40	0.0007253	0	-0.299145299	0.137564241
A_51_P393328	238130	56680	--		Chr12: 40.789947	0.454609756	9.5	Chr16: 76.657597	0.504690432	40	0.0007263	0.26495	0	1
A_51_P431629	14065	36148	F2rl3	coagulation factor II (thr	Chr8: 72.763337	0.326585366	12.1	Chr16: 76.657597	-0.504549719	40	0.0007293	0.321	-0.001025641	0.997334625
A_51_P242076	66622	11998	5730410I19Rik	RIKEN cDNA 5730410I1	Chr12: 102.777403	-0.18997561	15.1	Chr15: 13.042333	0.503705441	40	0.0007478	0.10963	-0.13025641	0.524333566
A_51_P137184	76426	19218	1700029J11Rik	RIKEN cDNA 1700029J	Chr2: 172.474005	0.330707317	11.3	Chr13: 68.572630	0.503658537	40	0.0007488	0	0	1
A_51_P168960	269637		9630008K15Rik	RIKEN cDNA 9630008K	Chr5: 28.205804	-0.27480488	9.4	Chr16: 45.072615	-0.50272045	40	0.0007699	0	0	1
A_51_P340892			--	Mus musculus transcrib	Chr18: 32.103703	0.077146341	19	Chr16: 45.072615	-0.502251407	40	0.0007806	0	0	1
A_51_P406306	227106		A730039N16Rik	RIKEN cDNA A730039N	Chr1: 53.930833	-0.04617073	10.3	Chr12: 35.121374	0.500234522	40	0.0008282	0	0	1
A_51_P478978	103554	113742	--	Mus musculus adult ma	Chr11: 30.839112	0.031609756	16.2	Chr16: 74.917702	-0.499906191	40	0.0008362	0.20443	0	1
A_51_P194498	67866	10920	Wfdc1	WAP four-disulfide core	Chr8: 119.687686	0.004731707	12.5	Chr15: 13.042333	-0.499202627	40	0.0008535	0.29353	-0.311452991	0.121521775
A_51_P224748	18766	4427	Pkdrej	polycystic kidney diseas	Chr15: 85.816280	0.223780488	12.6	Chr12: 83.777006	-0.499061914	40	0.000857	0.19541	0.041367521	0.841093407
A_51_P410070	14634	139	Gli3	GLI-Kruppel family mem	Chr13: 15.726896	0.171365854	18.9	ChrX: 10.699900	-0.498780488	40	0.0008641	0.28324	-0.009230769	0.965360452
A_51_P293401	21825	31142	--		Chr2: 118.114992	0.301512195	9.9	Chr13: 90.260691	0.498686679	40	0.0008664	0.32308	0	1
A_51_P511187	213989	27088	MGC37938	hypothetical protein MG	ChrUn: 1.000000	-0.02397561	10.4	Chr2: 114.197161	0.498545966	40	0.00087	0	0	1
A_51_P183154	77963	9289	Hook1	hook homolog 1 (Droso	Chr4: 96.015212	-1.56136585	11.4	Chr12: 46.816738	-0.498499062	40	0.0008712	0.25365	0.085811966	0.675853137
A_51_P305950	12954	48053	Cryaa	crystallin, alpha A	Chr17: 31.681644	-0.37678049	15.3	Chr13: 91.702351	0.498170732	40	0.0008795	0.25556	-0.142564103	0.485533379
A_51_P204074	109075	6017	Exosc4		Chr15: 76.330267	0.353829268	9.2	Chr10: 127.497910	0.498123827	40	0.0008807	0.12766	-0.107692308	0.59918175
A_51_P456753	12062	519	Bdkrb2	bradykinin receptor, beta	Chr12: 105.591745	0.694634146	10.1	Chr15: 13.042333	0.497514071	40	0.0008964	0.32178	0.457094017	0.019884253
A_51_P152073	74342	41763	Lrrtm1	leucine rich repeat trans	Chr6: 77.257498	-0.207	11.6	Chr16: 45.072615	0.497420263	40	0.0008988	0.23714	-0.067703882	0.742441209
A_51_P103650	93679	12795	Trim8	tripartite motif protein 8	Chr19: 46.516188	-0.93002439	21.1	Chr15: 57.160484	0.497326454	40	0.0009013	0.2448	0.171965812	0.399192334
A_51_P367980	259016		Olfr1048		Chr2: 86.236128	0.594609756	14.2	Chr9: 116.573136	-0.497138837	40	0.0009062	0	0.532991453	0.005687615
A_51_P357182	26419	56760	Mapk8	mitogen activated protei	Chr14: 33.402679	0.054780488	7.6	Chr13: 107.682463	-0.496060038	40	0.0009349	0.32677	-0.543247863	0.004705054
A_51_P354895			--	Mus musculus 2 days pr	Chr11: 43.229721	0.258902439	14.3	Chr16: 78.133286	0.495450281	40	0.0009514	0	0	1
A_51_P249360	211389	394	Suox	sulfite oxidase	Chr10: 128.669911	0.836512195	14.2	Chr4: 79.052159	-0.495403377	40	0.0009527	0.16321	-0.009230769	0.965360452
A_51_P509229	67309		3110054G10Rik	RIKEN cDNA 3110054G	Chr7: 123.195113	-0.95209756	14.5	Chr16: 74.917702	-0.49488743	40	0.0009669	0	0	1
A_51_P171711	56808	4400	Cacna2d2	calcium channel, voltage	Chr9: 107.527204	0.341146341	11.5	Chr15: 13.042333	0.494559099	40	0.0009761	0.27421	0.058461538	0.776316329
A_51_P231827	64139	75181	Ctsm	cathepsin M	Chr6: 65.449486	0.174463415	8.8	ChrX: 139.352577	0.494277674	40	0.000984	0.18945	0.44657207	0.02219701
A_51_P327418	208606	45198	Rsrc2	arginine/serine-rich coil	Chr5: 123.729173	-0.79702439	14.7	Chr9: 31.156625	-0.49380863	40	0.0009973	0	-0.411282051	0.037855294
A_51_P280785	83436	41822	Plekha2	pleckstrin homology dor	Chr8: 25.042645	-0.06253659	13.6	Chr16: 59.839107	0.493527205	40	0.0010053	0.26885	0.235555556	0.245584737
A_51_P461228	76843	32313	2810047L02Rik	RIKEN cDNA 2810047L	Chr1: 191.539205	-0.09702439	12	Chr1: 99.904908	-0.493198874	40	0.0010148	0.20424	0	1
A_51_P104454	64934	5984	Pes1	pescadillo homolog 1, c	Chr11: 3.978967	0.14595122	11.6	Chr4: 86.525416	0.492636023	40	0.0010312	0.28062	-0.272867161	0.177438019
A_51_P185584	271144	19566	9330128J19Rik	RIKEN cDNA 9330128J	Chr13: 96.416896	0.20997561	9.7	Chr16: 39.118020	-0.492542214	40	0.001034	0	0.152162765	0.458051129
A_51_P251256	20498	21056	Slc12a4	solute carrier family 12,	Chr8: 105.943783	0.069219512	15.2	Chr16: 74.917702	0.492401501	40	0.0010381	0.28356	-0.234570015	0.248732011
A_51_P397154			--		Chr9: 74.378731	0.062341463	12.8	Chr17: 36.878447	0.492073171	40	0.0010479	0	0	1

A_51_P154495	258561	64889	Olfr1012		Chr2: 85.759877	-0.1394878	7.6	Chr9: 121.018241	-0.491838649	40	0.0010549	0	0.132991453	0.515582403
A_51_P140871	108857		4933432B13Rik	RIKEN cDNA 4933432B	Chr18: 36.641657	-0.21268293	13.4	Chr16: 76.657597	-0.491651032	40	0.0010605	0.16711	0	1
A_51_P304200	16660	74433	Krt1-1	keratin complex 1, acidi	Chr11: 100.046780	0.043634146	15.8	Chr7: 3.706755	-0.491651032	40	0.0010605	0.25329	0	1
A_51_P217439			CA494461		ChrUn: 1.000000	0.662439024	10.6	Chr16: 60.577087	0.491369606	40	0.001069	0	0	1
A_51_P354548	67058		2810428J06Rik	RIKEN cDNA 2810428J	Chr3: 135.425485	0.141268293	7.7	Chr2: 11.785864	0.49108818	40	0.0010776	0	-0.028376068	0.891044608
A_51_P480499	18117	4424	Noc4	neighbor of Cox4	Chr8: 120.658006	0.779585366	10.8	Chr16: 74.917702	0.49108818	40	0.0010776	0.15558	0	1
A_51_P486512	68614	9128	1110019O13Rik	RIKEN cDNA 1110019C	Chr15: 100.479026	-0.31665854	13.7	Chr13: 98.858288	-0.490947467	40	0.0010819	0.22448	0	1
A_51_P346533	71655		4930518F22Rik	RIKEN cDNA 4930518F	Chr8: 23.258162	0.177878049	11.9	ChrX: 9.552352	0.490806754	40	0.0010862	0	-0.178150114	0.38391218
A_51_P160187			--		ChrX: 83.043296	0.124658537	9.6	Chr8: 100.394516	0.490619137	40	0.001092	0	0	1
A_51_P223005	14719	1572	Got2	glutamate oxaloacetate	--	-0.09231707	11.8	Chr4: 81.958676	-0.490619137	40	0.001092	0.28367	-0.169230769	0.406830486
A_51_P123630	16365	35405	Irg1	cis-aconitate decarboxyl	Chr14: 103.055974	0.082536585	9.2	Chr13: 59.180537	0.489821764	40	0.0011169	0.36877	-0.083091128	0.686547237
A_51_P455657	77060		4632404N19Rik	RIKEN cDNA 4632404N	Chr1: 139.136052	-1.147	10.8	Chr12: 46.816738	-0.489681051	40	0.0011213	0	0	1
A_51_P379680	26447	5209	Poli	polymerase (DNA direct	Chr18: 70.508802	-0.22243902	13.7	Chr12: 45.144589	-0.489587242	40	0.0011243	0.26834	-0.072136752	0.725521303
A_51_P317428	107272	6973	Psat1	phosphoserine aminotra	Chr19: 15.905524	-3.25068293	10.8	Chr16: 74.917702	0.489446529	40	0.0011287	0.22631	0.077606838	0.705508192
A_51_P517721			--	Mus musculus mRNA fc	Chr1: 170.349457	0.118878049	4.4	Chr16: 78.133286	0.488555347	40	0.0011574	0	0	1
A_51_P147056			--		ChrX: 74.365995	-0.39019512	11.6	Chr13: 52.770852	0.488461538	40	0.0011605	0	0	1
A_51_P426195	18158	49182	Nppb	natriuretic peptide type I	Chr4: 147.986380	0.057170732	12.1	Chr11: 74.110266	0.488180113	40	0.0011697	0.34966	-0.171965812	0.399192334
A_51_P237546	241688	10037	Dzank1	double zinc ribbon and a	Chr2: 144.522507	-0.23565854	14	Chr5: 115.147874	0.487945591	40	0.0011774	0	0	1
A_51_P102459	57340	10762	Jph3	junctophilin 3	Chr8: 121.790591	-0.79863415	8.6	Chr2: 67.856293	0.487242026	40	0.0012008	0.25602	-0.233504274	0.249814068
A_51_P263333	12631	99735	Cfl1	cofilin 1 (non-muscle, 18	Chr19: 5.494708	-0.68214634	7.2	Chr16: 74.917702	-0.487148218	40	0.001204	0.36246	-0.11042735	0.589868062
A_51_P265792	258359	74052	Olfr1312		Chr2: 112.042797	0.260317073	12.5	Chr4: 125.588387	-0.487007505	40	0.0012087	0	0.34974359	0.080464331
A_51_P164934	232086	16378	Tmem150a	transmembrane protein	Chr6: 72.359683	1.00004878	10.2	Chr17: 27.451463	-0.48630394	40	0.0012327	0.14779	0	1
A_51_P244558	98732		AW743433	expressed sequence AV	Chr1: 185.283905	-0.01895122	8	Chr6: 105.812442	0.486069418	40	0.0012407	0	0	1
A_51_P334361	258921		Olfr1188		Chr2: 88.560298	0.253170732	9.4	Chr8: 80.872638	-0.485412758	40	0.0012636	0	0.228717949	0.259870048
A_51_P137749			--		Chr11: 73.460460	-0.51885366	11.5	Chr16: 39.118020	-0.484990619	40	0.0012785	0	0	1
A_51_P155972	66864	12047	1200003C23Rik	RIKEN cDNA 1200003C	Chr12: 58.265690	0.306682927	8.4	Chr2: 64.112841	0.484122145	40	0.0013097	0.18871	0	1
A_51_P178815	171506	51377	H1foo	H1 histone family, meml	Chr6: 115.950139	0.033780488	11	Chr16: 76.657597	-0.483630394	40	0.0013276	0.2729	0.253333333	0.210933128
A_51_P350395	71952	11366	2410016O06Rik	RIKEN cDNA 2410016C	Chr12: 83.950465	0.578878049	7.6	Chr10: 7.003855	-0.48358349	40	0.0013293	0.29261	0.396239316	0.046026353
A_51_P258938	228880	32679	3632413B07Rik	RIKEN cDNA 3632413B	Chr2: 165.838811	0.245731707	10.8	ChrX: 36.008083	-0.482926829	40	0.0013536	0	0	1
A_51_P393944	77279		9430019C24Rik	RIKEN cDNA 9430019C	Chr8: 48.378530	-0.07726829	10.7	Chr13: 111.771070	-0.482879925	40	0.0013554	0	0	1
A_51_P403170	54200	49487	Sult2b1	sulfotransferase family,	Chr7: 45.735131	0.21297561	16.2	Chr9: 116.573136	0.482598499	40	0.0013659	0.36658	0.476923077	0.014683827
A_51_P413398	22779	22659	Zfpn1a2	zinc finger protein, subfa	Chr1: 69.538758	0.165804878	9.2	Chr13: 91.702351	0.482223265	40	0.0013801	0.34557	0	1
A_51_P369373	226122	11799	BC016129	cDNA sequence BC016	Chr19: 42.034564	0.302780488	11.1	Chr4: 44.317377	0.48217636	40	0.0013819	0	0	1
A_51_P198694	231103	1139	Gckr	glucokinase regulatory p	Chr5: 31.327210	2.234512195	11	Chr13: 81.854957	-0.482129456	40	0.0013836	0.26237	0.022567961	0.912862549
A_51_P496187	230085	18208	N28178	expressed sequence N2	Chr4: 42.939648	-0.19882927	13.7	Chr9: 108.514868	-0.481988743	40	0.001389	0	0.042735043	0.835867282
A_51_P500142			AI839445		ChrUn: 1.000000	0.410390244	12	Chr7: 16.461335	-0.481988743	40	0.001389	0	0	1
A_51_P310699	233410	8759	Zfp592	RIKEN cDNA A730014M	Chr7: 81.042054	0.140487805	8.9	Chr16: 76.657597	0.481941839	40	0.0013908	0.20258	0.128888889	0.528736191
A_51_P414971	103836	9889	AI839920	expressed sequence AI8	Chr11: 58.314533	-1.55095122	12.9	Chr12: 46.816738	-0.481894934	40	0.0013926	0.17928	0	1
A_51_P201234	214048	103869	1700108L22Rik	RIKEN cDNA 1700108L	Chr3: 40.977640	0.915902439	13.7	Chr16: 76.657597	-0.48184803	40	0.0013944	0	0	1
A_51_P112592	234857	72212	Spir2	spir-2 protein	Chr8: 123.366834	0.272634146	13.3	Chr16: 78.133286	0.481754221	40	0.001398	0.22203	0	1
A_51_P373669	17540	4425	Mrvi1	MRV integration site 1	Chr7: 110.898987	0.049780488	12.1	Chr9: 116.573136	0.481660413	40	0.0014016	0.26241	0.156923077	0.442214511
A_51_P108618	18679	1981	Phka1	phosphorylase kinase al	ChrX: 102.515966	-0.22821951	13.5	Chr6: 4.157748	0.480909944	40	0.0014307	0.24681	-0.166495726	0.414551075
A_51_P253924	257764		--		Chr19: 13.535623	-0.18126829	21.9	Chr10: 123.615279	-0.480581614	40	0.0014436	0	0	1
A_51_P334929	66289	88170	Mptx1	mucosal pentraxin 1	Chr1: 174.332666	0.408731707	15	Chr15: 13.042333	0.480534709	40	0.0014455	0	0	1
A_51_P142128	328572	1094	A730011L11	hypothetical protein A73	Chr15: 81.623644	-0.02736585	12	Chr16: 57.552158	0.480347092	40	0.0014529	0.3341	0	1
A_51_P436767	258913	64929	Olfr1377	olfactory receptor MOR1	Chr11: 50.985305	0.152878049	14.1	Chr11: 89.751422	-0.479924953	40	0.0014697	0	0.051974697	0.800920326
A_51_P241705	19246	2119	Ptpn1	protein tyrosine phospha	Chr2: 167.976796	-0.77570732	11.5	Chr15: 13.042333	0.479596623	40	0.0014829	0.3868	0.204786325	0.314110394
A_51_P137150	217207	3628	Dhx8	DEAH (Asp-Glu-Ala-His	--	0.378341463	6.7	Chr5: 14.324112	0.479502814	40	0.0014867	0.18115	-0.014019491	0.945807097
A_51_P417600			--	Mus musculus transcrib	Chr1: 5.916890	0.054682927	14.2	Chr4: 13.103868	0.479502814	40	0.0014867	0	0	1
A_51_P292307	71750	8954	1300003K24Rik	RIKEN cDNA 1300003K	Chr10: 127.498938	0.041512195	10.3	Chr2: 26.368354	0.47945591	40	0.0014886	0	0	1
A_51_P442290	30045	8492	Jdp1	J domain protein 1	Chr10: 63.408341	-1.31439024	10	Chr2: 67.856293	0.479221388	40	0.0014982	0.15076	0	1
A_51_P455528	217674	18476	Zlut1	glycoprotein hormone be	Chr12: 75.411957	0.109097561	10.1	Chr15: 8.299029	-0.479221388	40	0.0014982	0.27272	0	1
A_51_P156113	93842	10815	Igsf9	immunoglobulin superfa	Chr1: 172.498104	0.072414634	12	Chr16: 76.657597	0.47912758	40	0.001502	0.22517	0.461196581	0.018699116
A_51_P259201	258347	105187	Olfr1123		Chr2: 87.418666	-0.2655122	12	Chr8: 75.698351	0.479080675	40	0.0015039	0	0.124786325	0.542050783
A_51_P114204			--	Mus musculus transcrib	Chr1: 84.306145	-0.0484878	11.6	Chr16: 76.657597	-0.478986867	40	0.0015078	0	0	1
A_51_P104718	14738	3868	Gpr12	G-protein coupled recep	Chr5: 146.582944	-0.23904878	23	Chr5: 144.536158	-0.478330206	40	0.0015349	0.31965	0.060512821	0.768632852
A_51_P286978	76606	81932	1700034O15Rik	RIKEN cDNA 1700034C	Chr6: 41.685598	0.45504878	7.9	Chr3: 109.593118	0.478330206	40	0.0015349	0	0.197298686	0.333997457
A_51_P287577	257810		--		Chr4: 43.767791	0.242829268	12.4	ChrX: 9.552352	0.478330206	40	0.0015349	0	0	1
A_51_P331279	11867	4179	Arpc1b	actin related protein 2/3	Chr5: 145.127922	-1.38658537	12.9	Chr18: 70.123703	0.478189493	40	0.0015408	0.18392	0.228717949	0.259870048
A_51_P302576	20737	36108	Spn	sialophorin	Chr7: 127.134660	-0.06743902	12.9	Chr16: 61.403305	0.477579737	40	0.0015664	0.34356	-0.377094017	0.058400304
A_51_P321651	102122	11797	2310065K24Rik	RIKEN cDNA 2310065K	Chr8: 94.575229	-0.12863415	13.7	Chr6: 85.817555	0.477298311	40	0.0015784	0	0.001025641	0.997334625
A_51_P201532	18541	86942	Pcnt2	pericentrin (kendrin)	Chr11: 115.583799	-0.63656098	17.8	Chr1: 154.205433	-0.477251407	40	0.0015804	0.28581	0	1
A_51_P435023	56289	105602	Rassf1	Ras association domain	Chr9: 107.562123	-0.74943902	12.4	Chr2: 60.648325	0.477157598	40	0.0015844	0.3781	0.468114214	0.015876224
A_51_P184738	22059	460	Trp53	transformation related p	Chr11: 69.591586	0.07402439	11	Chr11: 76.947549	0.476876173	40	0.0015965	0.29636	0.416752137	0.035191839
A_51_P449986	12274	47	C6	complement component	Chr15: 4.803730	1.540487805	11.5	Chr16: 74.159777	0.47673546	40	0.0016026	0.24883	0.057445718	0.780443648
A_51_P471025	226251	40994	Ablim1	actin-binding LIM protein	Chr19: 57.130805	0.570390244	11.1	Chr8: 100.394516	0.476547842	40	0.0016107	0.2378	0.016752137	0.936096217
A_51_P367021	70918	11653	4921525L17Rik	RIKEN cDNA 4921525L	Chr5: 66.295900	1.028463415	10.9	Chr12: 103.031681	0.476313321	40	0.0016209	0.24833	0	1
A_51_P317505	17960	115468	Nat1	N-acetyl transferase 1, I	Chr8: 67.491879	0.963073171	8.9	Chr4: 156.010584	-0.476219512	40	0.001625	0.35267	-0.456830234	0.018971117
A_51_P266695	240518	27059	A930011L17	hypothetical protein A93	Chr19: 4.931916	0.075365854	11.2	Chr16: 76.657597	0.476125704	40	0.0016291	0.21089	0	1
A_51_P328094	224912	18371	Crb3	crumbs homolog 3 (Dro	Chr17: 57.065741	0.08695122	16.8	Chr11: 79.252229	-0.475891182	40	0.0016394	0.26598	0.18017094	0.376777235
A_51_P314487	78929	6337	Polr3h	RIKEN cDNA 5031409G	Chr15: 81.915903	0.185317073	11.1	Chr12: 113.258515	0.475772785	40	0.0016447	0	-0.139145299	0.496160233
A_51_P441193	18316	122780	Olfr19	olfactory receptor 19	Chr16: 16.673169	0.041878049	12.7	Chr16: 69.289612	0.475609756	40	0.0016519	0.097202	0.251965812	0.213472169
A_51_P105292	231326	71711	A230062G08Rik	RIKEN cDNA A230062G	Chr5: 76.884144	-0.03946341	12.4	Chr15: 8.299029	-0.475562852	40	0.001654	0.32948	-0.542564103	0.004765726
A_51_P488789	69131	84757	1810022J16Rik	RIKEN cDNA 1810022J	Chr11: 98.250923	0.598560976	31.2	Chr12: 103.031681	0.475562852	40	0.001654	0.17291	0	1
A_51_P404766			--	Mus musculus 16 days	Chr11: 105.210735	-0.02153659	12.2	Chr2: 139.724059	-0.47532833	40	0.0016644	0	0	1
A_51_P444335	66659	41128	Acp6	acid phosphatase 6, lys	Chr3: 97.176418	0.560439024	10.7	Chr13: 91.702351	-0.475140713	40	0.0016728	0.26965	0.352478632	0.078004781
A_51_P169560	70591	11177	5730455P16Rik	RIKEN cDNA 5730455P	Chr11: 80.361836	-0.27446341	10.7	Chr9: 116.573136	-0.474953096	40	0.0016813	0	-0.362051282	0.069851918
A_51_P380279	71425	45492	5430413K10Rik	RIKEN cDNA 5430413K	Chr2: 154.317430	0.367097561	13.1	Chr13: 98.858288	0.474718574	40	0.0016919	0	0.129252866	0.529154025
A_51_P386939	258071		--		Chr9: 19.996856	-0.08556098	7.6	Chr16: 51.096758	0.474437148	40	0.0017047	0	0	1
A_51_P145260	99377	10716	Sall4	sal-like 4 (Drosophila)	Chr2: 168.752672	0.463390244	11	Chr11: 95.628101	-0.474390244	40	0.0017068	0.29504	-0.383931624	0.053711107
A_51_P381015	14028	1507	Evx1	even skipped homeotic	Chr6: 52.317899	0.225195122	12.7	Chr16: 44.259473	-0.473827392	40	0.0017327	0.2411	0.095384615	0.641855042
A_51_P218902	68235		2410066E13Rik	RIKEN cDNA 2410066E	Chr6: 54.703773	-2.13102439	10.8	Chr16: 59.839107	0.473217636	40	0.0017612	0.1502	-0.308717949	0.124960341
A_51_P360435	16530	43131	Kcnk7	potassium channel, sub	Chr19: 5.706810	-0.12965854	6.3	Chr3: 157.519787	-0.47293621	40	0.0017744	0.24886	0.405128205	0.041043613
A_51_P482795	331045		A530083I20	hypothetical protein A53	Chr9: 122.886016	-0.0205122	10.8	Chr13: 81.107254	-0.472842402	40	0.0017789	0	0	1
A_51_P328789	105638	44717	2610018L09Rik	RIKEN cDNA 2610018L	Chr14: 32.082094	-0.11509756	11.9	Chr16: 76.657597	0.47227955	40	0.0018057	0.28992	0	1
A_51_P206585	12394	117961	Runx1	runt related transcription	Chr16: 92.604168	-0.74385366	8.9	Chr17: 44.087915	0.472185741	40	0.0018102	0.28677	0.10974359	0.592190512
A_51_P285020	74516		8430417A20Rik	RIKEN cDNA 8430417A	Chr6: 92.846728	-0.35095122	13.3	Chr16: 59.839107	0.472185741	40	0.0018102	0	0	1
A_51_P311896	19229	23001	Ptk2b	PTK2 protein tyrosine ki	Chr14: 66.154224	0.033439024	9.8	Chr18: 12.550517	-0.472185741	40	0.0018102	0.37381	0.11042735	0.589868062
A_51_P487434	258937	115517	Olfr167		Chr16: 19.515500	0.366365854	8.6	Chr18: 75.950904	0.471904315	40	0.0018238	0	0.35042735	0.079843905
A_51_P110978	110651	37940	Rps6ka3	ribosomal protein S6 kir	ChrX: 159.364287	-0.63173171	15.6	Chr12: 104.393980	0.471763602	40	0.0018306	0.36951	0.210940171	0.299531137
A_51_P205261	52023	4628	4930513H15Rik	RIKEN cDNA 4930513H	Chr14: 99.197804	0.022853659	10.3	Chr2: 139.724059	-0.47120075	40	0.0018581	0.21675	0	1
A_51_P418469	110074	31475	Dutp	deoxyuridine triphospha	Chr2: 125.257406	-0.89036585	13.6	Chr15: 41.869280	-0.471153846	40	0.0018604	0.27211	0	1
A_51_P161542	258719		Olfr512		Chr7: 108.713355	0.360073171	12.2	Chr12: 103.031681	-0.471060038	40	0.0018651	0	0.284786325	0.15818237
A_51_P117398	12648	68174	Chd1	chromodomain helicase	Chr17: 15.771572	0.194341463	10.1	Chr17: 27.451463	0.471013133	40	0.0018674	0.29369	0.344957265	0.084912068
A_51_P282609	14805	68992	Grik1	glutamate receptor, ionc	Chr16: 87.895986	-2.87021951	8.3	Chr10: 86.734257	-0.470637899	40	0.001886	0.22471	-0.10017094	0.625115524
A_51_P464576	19164	7186	Psen1	presenilin 1	Chr12: 83.734377	0.38297561	11.7	Chr7: 104.149021	0.470497186	40	0.001893	0.27027	0.228034188	0.261328093
A_51_P481528	319867		9330160C06Rik	RIKEN cDNA 9330160C	Chr6: 149.038095	-0.22041463	13.3	Chr2: 145.281646	-0.470356473	40	0.0019001	0	0	1
A_51_P273005	11470	7613	Actl7a	actin-like 7a	Chr4: 56.744761	0.980512195	8.1	Chr12: 96.105011	0.470168856	40	0.0019095	0.24472	0.114529915	0.576018247
A_51_P513071	108841	121782	Rdh13	retinol dehydrogenase 1	Chr7: 4.427072	0.138243902	11.7	Chr16: 78.133286	0.469606004	40	0.0019381	0.21192	0.247179487	0.222523872
A_51_P476900	114604	56941	Prdm15	PR domain containing 1	Chr16: 97.791527	-0.3084878	15.3	Chr13: 107.135408	-0.469559099	40	0.0019405	0.16877	0.113846154	0.578316353
A_51_P436878	55942	8365	Sertad1	RIKEN cDNA 1110032C	Chr7: 27.489971	-0.05797561	11	Chr13: 115.929261	0.469512195	40	0.0019429	0.25467	0.390769231	0.04932543
A_51_P470793	77772	14981	A330106H01Rik	RIKEN cDNA A330106H	Chr3: 89.352774	0.149170732	10.5	Chr2: 5.846366	0.469465291	40	0.0019453	0	0	1
A_51_P235565	75847	45614	Ispd	isoprenoid synthase dor	Chr12: 36.547911	0.243390244	11.4	Chr16: 78.133286	0.469371482	40	0.0019501	0.1812	0	1
A_51_P277588	66625	32802	5730406M06Rik	RIKEN cDNA 5730406M	Chr4: 21.875992	-1.5825122	14.7	Chr12: 46.816738	-0.469277674	40	0.0019549	0	0	1
A_51_P451957	12891	81815	Cpne6	copine VI	Chr14: 55.517345	-3.15909756	9.8	Chr2: 25.871175	-0.468949343	40	0.0019719	0.22326	-0.481709402	0.013615178
A_51_P201520	72068	40953	Cnot2	CCR4-NOT transcriptio	Chr10: 116.485372	-0.59778049	16.2	Chr9: 30.479878	-0.46880863	40	0.0019792	0.18235	-0.280683761	0.164462228
A_51_P510997	11979	20063	Atp7b	ATPase, Cu++ transpor	Chr8: 21.995554	0.734365854	9.3	Chr6: 105.812442	-0.4684803	40	0.0019963	0.33079	-0.003760684	0.986673692
A_51_P112762	53881	31412	Slc5a3	solute carrier family 5 (ir	Chr16: 92.079121	-0.16182927	11.9	Chr17: 43.824635	0.468105066	40	0.002016	0.37298	0.037955207	0.853949087
A_51_P221972	70511	45719	5730409G15Rik	RIKEN cDNA 5730409G	Chr16: 5.247558	0.123219512	8.8	Chr16: 76.657597	0.468011257	40	0.002021	0	0.192478632	0.344577957
A_51_P266083			--	Mus musculus transcrib	Chr10: 63.325649	-0.06507317	9.5	Chr16: 76.657597	-0.46782364	40	0.002031	0	0	1
A_51_P352885	319576		D230024G13Rik	RIKEN cDNA D230024C	Chr11: 6.603767	0.118439024	11	ChrX: 9.552352	-0.467166979	40	0.0020661	0	0	1
A_51_P388268	258703	68262	Olfr402		Chr11: 74.155156	-0.21807317	12.2	Chr16: 78.133286	0.46709508	40	0.00207	0	0.213027871	0.296085275
A_51_P118300	20618	2322	Sncg	synuclein, gamma	Chr14: 34.373369	-0.53543902	4.4	Chr15: 84.037486	0.466369606	40	0.0021096	0.31659	-0.21025641	0.301129454
A_51_P384314			--	Mus musculus adult ma	Chr9: 106.852850	-0.11073171	16.2	Chr7: 16.461335	-0.465947467	40	0.0021329	0	0	1
A_51_P402704			BF686935	Mus musculus, Similar t	ChrUn: 1.000000	0.149756098	9.7	Chr16: 45.072615	-0.465853659	40	0.0021381	0	0	1
A_51_P362423	17771	31275	Mtl5	metallothionein-like 5, te	Chr19: 3.407385	0.044512195	11.5	Chr8: 67.907992	0.46543152	40	0.0021617	0.18494	-0.214053688	0.293710464
A_51_P474026			--	Mus musculus transcrib	Chr14: 45.359073	-0.35307317	10.4	Chr2: 145.281646	-0.465103189	40	0.0021802	0	0	1
A_51_P394735	102098	32254	Arhgef18	Rho/Rac guanine nucle	Chr8: 3.456257	-0.49536585	12.9	Chr16: 76.657597	0.464821764	40	0.0021962	0.1656	0.300512821	0.135708773
A_51_P189082	83702	84695	Akr1c6	aldo-keto reductase fam	Chr13: 4.457182	1.701658537	13	Chr17: 43.824635	-0.464727955	40	0.0022015	0.26212	0.331965812	0.097938199
A_51_P228472	16009	500	Igfbp3	insulin-like growth facto	Chr11: 7.208466	0.786926829	25.9	Chr16: 38.377850	0.464727955	40	0.0022015	0.41912	0.343589744	0.086216924
A_51_P428875	70990		Mterf	transcription terminatior	Chr5: 4.196699	-0.09580488	11.2	Chr2: 156.863893	-0.464540338	40	0.0022123	0	0.052307692	0.799489638
A_51_P301966	54445	41325	Unc93b	unc-93 homolog B1 (Tri	Chr19: 3.944170	0.210170732	9.7	Chr16: 76.657597	0.464540338	40	0.0022123	0.3064	0	1
A_51_P123564	207474	65289	Kctd12b	RIKEN cDNA B430319H	ChrX: 153.687067	0.404365854	13.9	Chr7: 3.706755	-0.46435272	40	0.002223	0.16789	-0.073504274	0.720500632
A_51_P261276	258380	64891	NM_146382.1		ChrUn: 1.000000	0.039439024	9.8	Chr8: 26.891915	-0.464212008	40	0.0022311	0	0	1
A_51_P146058	216869	3183	Arrb2	arrestin, beta 2	Chr11: 70.440213	0.148	12.9	Chr2: 5.846366	-0.464165103	40	0.0022339	0.2967	-0.267008547	0.186682226
A_51_P105178	20677	2338	Sox4	SRY-box containing gen	Chr13: 28.952197	-0.15597561	10.5	Chr19: 53.384788	0.464118199	40	0.0022366	0.4107	0.285470085	0.157152766
A_51_P389120	75740	104934	6130401L20Rik	RIKEN cDNA 6130401L	Chr3: 29.670915	-0.08256098	11.6	Chr4: 3.703668	-0.463883677	40	0.0022502	0	-0.221196581	0.276204618
A_51_P366211	70614		5730513H21Rik	RIKEN cDNA 5730513H	Chr10: 94.742414	0.283780488	7.4	Chr2: 103.450499	0.463555347	40	0.0022693	0	0	1
A_51_P392223	67708	23366	AK076035	RIKEN cDNA 1810048J	Chr12: 72.580033	-1.56378049	13.3	Chr11: 76.947549	-0.463180113	40	0.0022914	0	-0.230769231	0.25552815
A_51_P387191	101568	9509	Vrk3	vaccinia related kinase 3	Chr7: 44.777324	0.083707317	18.2	Chr2: 142.704064	0.463133208	40	0.0022942	0.30162	0.217094017	0.285389393
A_51_P202670	128853		Dusp15	dual specificity phospha	Chr2: 152.941823	0.106829268	6.8	Chr6: 92.011105	0.463108026	40	0.0022957	0	-0.487863248	0.012337325
A_51_P333594			LOC665798	similar to aurora kinase	Chr7: 10.988507	0.563463415	10.9	Chr18: 76.660819	0.462804878	40	0.0023137	0	0	1
A_51_P247478	72113	6493	Adck1	aarF domain containing	Chr12: 88.461517	0.025853659	12.3	Chr17: 36.878447	-0.462779681	40	0.0023152	0.19274	-0.303247863	0.132053106
A_51_P419551	15552	20240	Htr1d	5-hydroxytryptamine (se	Chr4: 136.443048	0.423439024	11.3	Chr5: 4.468199	0.462570356	40	0.0023277	0.26111	0.046837607	0.820231189
A_51_P206971	17420	1821	Mnat1	menage a trois 1	Chr12: 73.272526	-0.15290244	21.8	Chr15: 57.160484	-0.462523452	40	0.0023305	0.28388	-0.302564103	0.132960142
A_51_P421724	26938	8079	Siat7e	sialyltransferase 7 ((alpl	Chr3: 152.821118	-1.82326829	16	Chr5: 126.903209	0.462523452	40	0.0023305	0.19212	0	1
A_51_P244201	94332	10919	Necl1	nectin-lke 1	Chr1: 173.336404	-1.0044878	19.1	Chr16: 85.087204	0.462288931	40	0.0023446	0.19885	0	1
A_51_P494845	237459	55666	Pctk2	PCTAIRE-motif protein I	Chr10: 93.208171	0.80702439	8.5	Chr6: 145.457539	0.462101313	40	0.0023559	0.20069	-0.251282051	0.214749532
A_51_P511833	77358		9430069I07Rik	RIKEN cDNA 9430069I0	Chr15: 34.349211	0.081731707	8.2	Chr2: 169.952880	0.4619606	40	0.0023644	0	0.297777778	0.139438251
A_51_P179953	71782	35424	1110001J12Rik	RIKEN cDNA 1110001J	Chr5: 110.253336	0.260317073	8.4	Chr3: 33.914701	0.461866792	40	0.0023701	0	0	1
A_51_P399996	16017		Igh-4	immunoglobulin heavy c	Chr12: 113.625780	0.048439024	15.8	Chr5: 13.823358	0.461819887	40	0.002373	0.31967	0	1
A_51_P192323	235330	32375	Ttc12	RIKEN cDNA E330017C	Chr9: 49.437128	-0.25046341	14.6	Chr16: 62.269705	0.461726079	40	0.0023787	0.15219	-0.078974359	0.70053453
A_51_P221625	223255	20793	Stk24	serine/threonine kinase	Chr14: 121.286872	-0.47790244	8.3	Chr12: 96.105011	0.461257036	40	0.0024075	0.18722	0.507437176	0.008143049
A_51_P446856	286940	37480	--	Mus musculus adult ma	Chr14: 7.882341	-0.20582927	13.7	Chr12: 46.816738	-0.461022514	40	0.002422	0.27421	0	1
A_51_P440443	27998	5981	Exosc5	DNA segment, Chr 7, W	Chr7: 25.667960	0.231219512	9.7	Chr18: 76.826488	-0.460834897	40	0.0024337	0.19564	0.081709402	0.690624042
A_51_P158018	67621	41574	2310026E23Rik	RIKEN cDNA 2310026E	Chr4: 111.454141	-2.48804878	10.4	Chr6: 111.299792	-0.460459662	40	0.0024571	0	0.261538462	0.196135474
A_51_P443637	12166	20911	Bmpr1a		Chr14: 34.414621	0.501756098	14.7	Chr13: 111.771070	0.460459662	40	0.0024571	0.37845	0.00034188	1
A_51_P257709	257948	115623	--		Chr17: 37.362287	0.515780488	8.9	Chr19: 52.801833	0.460318949	40	0.002466	0	0	1
A_51_P476558	69815	12332	Kcp3	keratinocytes associated	Chr5: 31.253142	-1.30153659	10.1	Chr12: 46.816738	-0.459896811	40	0.0024927	0	0	1
A_51_P230195	212427		A730008H23	hypothetical protein A73	Chr1: 88.265480	-0.17729268	9.6	Chr9: 119.337969	0.45956848	40	0.0025136	0	0	1
A_51_P281971	257947	81631	--		Chr7: 102.477311	0.099414634	16	ChrX: 139.352577	0.45956848	40	0.0025136	0	0	1
A_51_P222407	106345		2610015P09Rik	RIKEN cDNA 2610015P	Chr16: 43.964122	0.020853659	13.9	Chr16: 31.615795	0.459287054	40	0.0025317	0	0	1
A_51_P165602	16815	36314	Lbx2h	lady bird-like homeobox	Chr6: 83.088155	0.21804878	46.4	Chr16: 39.118020	-0.458724203	40	0.0025682	0.20398	0	1
A_51_P311576	94214	8854	Spock2	sparc/osteonectin, cwcv	Chr10: 60.123805	0.119268293	6.2	Chr4: 132.854094	0.458442777	40	0.0025866	0.19828	-0.401025641	0.043286539
A_51_P232800	77007		Cdv3	RIKEN cDNA 2510010F	Chr4: 147.188125	1.06597561	9	Chr3: 28.727954	0.458395872	40	0.0025897	0	0.086495726	0.673402671
A_51_P238073			BU962389	Mus musculus transcrib	ChrUn: 1.000000	0.035219512	6.9	Chr18: 24.161890	-0.458135936	40	0.0026068	0	0	1
A_51_P419103	75573	19138	2310007L24Rik	RIKEN cDNA 2310007L	Chr11: 106.374295	0.355804878	8.4	Chr13: 39.804063	0.457410882	40	0.0026551	0	-0.15965812	0.43420971
A_51_P108659	18979	68058	Pon1	paraoxonase 1 (aryleste	Chr6: 5.168166	1.468243902	13.1	ChrX: 10.699900	-0.457223265	40	0.0026677	0.38171	-0.12	0.5577832
A_51_P251821	16923	36179	Lnk	SH2B adaptor protein 3	Chr5: 121.818247	0.413804878	10.1	Chr2: 69.342849	0.457223265	40	0.0026677	0.33141	-0.301196581	0.134787964
A_51_P223946	100710	41001	Pds5b	PDS5, regulator of cohe	Chr5: 150.810059	-1.30717073	7.9	Chr7: 40.301497	-0.457129456	40	0.0026741	0.25586	-0.525470085	0.006514276
A_51_P426984	77733	12807	6720407G21Rik	RIKEN cDNA 6720407G	Chr7: 26.075503	0.419560976	10.8	Chr16: 31.615795	-0.457035647	40	0.0026804	0.15269	0	1
A_51_P455196	192195	10225	Ash1l	ash1 (absent, small, or I	Chr3: 89.077416	0.05202439	8.4	Chr19: 48.670102	0.456801126	40	0.0026963	0.23656	-0.492649573	0.011414244
A_51_P479310	14862	115474	Gstm1	glutathione S-transferas	Chr3: 108.012306	0.222658537	11.5	Chr10: 46.700763	-0.456801126	40	0.0026963	0.35847	-0.115897436	0.571434414
A_51_P130546	18189	21005	--	neurexin 1	Chr17: 91.089302	0.006073171	15.4	Chr18: 74.736175	0.456660413	40	0.0027059	0.26146	0	1
A_51_P299344	11648	20395	Akp3		Chr1: 87.125926	0.163439024	15.4	Chr7: 16.461335	-0.456613508	40	0.0027091	0.37594	0.004444444	0.984008743
A_51_P332005	66595	8547	1100001A21Rik	RIKEN cDNA 1100001A	ChrUn: 1.000000	0.15095122	12.1	Chr11: 79.547198	0.456332083	40	0.0027284	0	0	1
A_51_P147422	279499	18630	4922504H04	hypothetical protein 492	Chr8: 105.385075	0.422219512	13.9	Chr16: 76.657597	0.45619137	40	0.0027381	0	0	1
A_51_P206243	229709	77353	Ahcyl1	S-adenosylhomocystein	Chr3: 107.663202	-1.34634146	17.1	Chr16: 74.917702	-0.455300188	40	0.0028002	0.25921	-0.102905983	0.615631552
A_51_P102257	320477		E030037J05Rik	RIKEN cDNA E030037J	Chr1: 73.989813	-1.50921951	10.2	Chr12: 52.810060	-0.454878049	40	0.00283	0	0.188376068	0.355119737

A_51_P435103	77209		8030453O22Rik	RIKEN cDNA 8030453C	Chr6: 39.527788	0.182707317	9.2	Chr16: 39.630837	0.454831144	40	0.0028333	0	0.184273504	0.365853172
A_51_P256747	271639	10188	Sac	testicular soluble adenyl	Chr1: 165.575640	-0.18568293	15.1	Chr16: 45.072615	-0.454502814	40	0.0028567	0.33936	0	1
A_51_P437279	33214		Rplp1	ribosomal protein, large	Chr7: 25.228417	-0.02758537	13.6	Chr4: 150.935514	0.454315197	40	0.0028702	0	-0.119678579	0.560344158
A_51_P168115	60505	11032	Il21	interleukin 21	Chr3: 37.223213	-0.03390244	8.3	ChrX: 50.423970	0.454033771	40	0.0028905	0.34895	-0.102239701	0.61919701
A_51_P427099	229725	9032	Mclc	Mid-1-related chloride c	Chr3: 108.677448	0.276756098	19.3	Chr16: 82.141058	-0.453986867	40	0.0028938	0	0	1
A_51_P352264	209011	56152	Sirt7	sirtuin 7 (silent mating t	Chr11: 120.618422	-0.00453659	8.5	Chr13: 91.702351	-0.453564728	40	0.0029245	0.30643	0.465982906	0.017390968
A_51_P108573	96957	11801	B830009D23Rik	RIKEN cDNA B830009D	Chr2: 121.007104	0.030195122	11.8	Chr9: 51.713125	0.453377111	40	0.0029383	0	0	1
A_51_P392209	241322	4829	A830092L04Rik	RIKEN cDNA A830092L	Chr2: 37.428669	0.004682927	9.9	Chr9: 29.940959	-0.45304878	40	0.0029624	0	0	1
A_51_P161315	73992		4930448F12Rik	RIKEN cDNA 4930448F	Chr13: 18.085012	0.222658537	11.4	Chr19: 25.336320	0.452861163	40	0.0029763	0	0.32034188	0.110831986
A_51_P242335	109284	16343	C19orf22	R3H domain-containing	Chr10: 79.911970	0.199560976	11.9	Chr16: 76.657597	0.452861163	40	0.0029763	0	0	1
A_51_P368343	22716		Zfp58	zinc finger protein 58	Chr13: 67.786314	-0.31234146	16	Chr12: 115.550550	-0.452767355	40	0.0029833	0	-0.027692308	0.893686806
A_51_P183051	103149	9471	Upb1	ureidopropionase, beta	Chr10: 75.440097	1.295146341	11.8	Chr13: 91.702351	-0.45272045	40	0.0029868	0.1434	0.281367521	0.163403367
A_51_P259879	243853	11513	Fkrp	fukutin related protein	Chr7: 16.809749	0.023097561	13.8	Chr16: 76.657597	0.452485929	40	0.0030042	0.22091	-0.15008547	0.462574322
A_51_P138859	72098	12440	2010300G19Rik	RIKEN cDNA 2010300G	Chr4: 3.549593	-0.90526829	23.7	Chr4: 5.679247	0.452439024	40	0.0030077	0	0	1
A_51_P160439	224273	28544	BC043118	cDNA sequence BC043	Chr16: 59.492134	-1.08282927	49.6	Chr16: 57.552158	0.452157598	40	0.0030289	0.1609	0.052307692	0.799489638
A_51_P418644	217138	11522	BC022765	cDNA sequence BC022	Chr11: 96.936741	0.442634146	11.7	Chr1: 14.797136	0.452157598	40	0.0030289	0	0	1
A_51_P270725	102093	247	--	Mus musculus B6-deriv	Chr8: 85.936871	-0.3447561	14.4	Chr12: 46.816738	-0.451923077	40	0.0030466	0.25155	0	1
A_51_P356229	53319	38176	Nxf1	nuclear RNA export fact	Chr19: 8.764327	0.25804878	9.3	Chr16: 82.141058	0.451876173	40	0.0030501	0.24884	0.36	0.071540421
A_51_P127560			--		Chr13: 54.644465	-0.37426829	8.7	Chr17: 27.451463	-0.451641651	40	0.0030679	0	0	1
A_51_P451159	14748	31303	Gpr3	G-protein coupled recep	Chr4: 133.209941	0.15804878	10.7	Chr4: 136.674648	0.451594747	40	0.0030715	0.30583	-0.333333333	0.096499595
A_51_P308254	20931	8430	Surf2	surfeit gene 2	Chr2: 26.919343	0.28197561	13.7	Chr2: 145.281646	0.451454034	40	0.0030822	0.24759	-0.551452991	0.004026717
A_51_P408044	11652	48773	Akt2	thymoma viral proto-onc	Chr7: 27.636954	0.931780488	11.5	Chr16: 76.657597	0.451407129	40	0.0030858	0.38388	-0.421538462	0.032987656
A_51_P189171	15968	68536	Ifna5		Chr4: 88.835600	0.290512195	15.1	Chr19: 15.769245	0.451031895	40	0.0031146	0.19115	0.434262273	0.026642694
A_51_P434928	258284		Olfr114		Chr17: 37.589578	1.836	13.4	Chr16: 76.657597	-0.451031895	40	0.0031146	0	0.058461538	0.776316329
A_51_P308836	16328	38286	B230210E21Rik	RIKEN cDNA B230210E	Chr2: 155.971967	0.056731707	10	Chr16: 60.577087	0.450844278	40	0.0031291	0.17654	0	1
A_51_P343851	73122	3141	3110018K12Rik	RIKEN cDNA 3110018K	Chr1: 43.047700	0.299414634	10.6	Chr16: 78.133286	0.450844278	40	0.0031291	0.26015	0	1
A_51_P491075	74453	27056	4933415I03Rik	RIKEN cDNA 4933415I(	Chr18: 74.359722	-0.82939024	12	Chr16: 36.946690	0.450797373	40	0.0031328	0	0	1
A_51_P385928	192212	44536	Prom2	prominin 2	Chr2: 127.534825	0.513536585	13	Chr16: 39.630837	-0.450562852	40	0.003151	0.25913	0.384615385	0.053259104
A_51_P350853	13051	20350	Cx3cr1	chemokine (C-X3-C) rec	Chr9: 120.051492	0.715073171	9.2	Chr2: 63.572851	0.450422139	40	0.003162	0.3259	0.009230769	0.965360452
A_51_P333750	74372		Ulk4	RIKEN cDNA 4932415A	ChrUn: 1.000000	0.12997561	8.1	Chr18: 57.081989	0.450140713	40	0.003184	0	-0.262905983	0.193741471
A_51_P346523	319885		4930572I07Rik	RIKEN cDNA 4930572I(	Chr4: 44.911964	-1.60604878	13.5	Chr12: 46.816738	-0.450140713	40	0.003184	0	0	1
A_51_P478486	233908	3639	Fus	fusion, derived from t(12	Chr7: 127.974213	-1.6525122	12.1	Chr12: 44.907989	-0.449624765	40	0.0032248	0.35817	0.022905983	0.912212174
A_51_P475589	79361		Stx1bl-pending	syntaxin 1 b-like	ChrUn: 1.000000	-0.14809756	4.1	Chr7: 73.948961	-0.449577861	40	0.0032285	0	0	1
A_51_P309084			--	Mus musculus transcrib	Chr4: 119.450319	0.229487805	9.2	Chr5: 115.147874	0.449249531	40	0.0032547	0	0	1
A_51_P195783	234258	10094	BC034753	cDNA sequence BC034	Chr8: 53.607090	-0.09278049	9.6	Chr16: 61.403305	-0.449202627	40	0.0032585	0.22293	0	1
A_51_P134030	231699	110815	Oas1e	2'-5' oligoadenylate synt	Chr5: 120.786564	0.089731707	12.9	Chr7: 3.706755	-0.449061914	40	0.0032698	0	0.165811966	0.416494042
A_51_P179181			Phf17	RIKEN cDNA D530048A	Chr3: 41.600068	0.557121951	9.6	Chr9: 114.473887	-0.449061914	40	0.0032698	0	0.003760684	0.986673692
A_51_P360092	258645	77379	Olfr1403		Chr1: 173.270603	0.227219512	19.2	Chr12: 104.393980	0.448968105	40	0.0032774	0	-0.157975725	0.440846951
A_51_P475342	11443	594	Chrnb1	cholinergic receptor, nic	Chr11: 69.785172	-0.38953659	12.5	Chr8: 40.006372	0.448405253	40	0.003323	0.2361	-0.175384615	0.389761315
A_51_P120875	259036	17470	Olfr713		Chr7: 107.036996	0.841804878	8.1	Chr16: 62.269705	0.448358349	40	0.0033268	0.11545	0.144615385	0.479214141
A_51_P171521	21667	2416	Tdgf1	teratocarcinoma-derived	ChrUn: 1.000000	0.300560976	8.7	ChrX: 102.424802	-0.448311445	40	0.0033306	0.33269	-0.15965812	0.43420971
A_51_P147748	14459	628	Gast	gastrin	Chr11: 100.336565	0.059365854	11.9	Chr8: 44.622962	0.447983114	40	0.0033576	0.37494	0.481025641	0.013763743
A_51_P179023	68970	49418	Dcaf12	DDB1 and CUL4 associ	Chr4: 41.291895	-0.41202439	8.5	Chr16: 39.630837	0.44793621	40	0.0033614	0	0	1
A_51_P503162	23849	996	Copeb	core promoter element I	Chr13: 5.867460	-1.24768293	10.6	Chr16: 27.062879	0.447560976	40	0.0033925	0.39125	0	1
A_51_P473888	16195	1645	Il6st	interleukin 6 signal trans	Chr13: 112.506378	0.263439024	13.9	Chr11: 74.110266	0.447514071	40	0.0033964	0.38085	-0.212991453	0.294768598
A_51_P340601	12228	4953	Btg3	B-cell translocation gen	Chr17: 50.699383	-1.7924878	28.8	Chr16: 78.133286	0.447373358	40	0.0034081	0.35475	-0.027692308	0.893686806
A_51_P499304	241556	24122	6720430O15	hypothetical protein 672	Chr2: 93.227611	0.119121951	7.8	Chr16: 44.259473	0.447138837	40	0.0034277	0	0	1
A_51_P466378	16408	1666	Itgal	integrin alpha L	Chr7: 127.333646	-0.31782927	16	Chr17: 72.249523	0.447091932	40	0.0034316	0.36312	-0.027008547	0.896330131
A_51_P122825	18293	55662	Ogdh	oxoglutarate dehydroger	Chr11: 6.355296	0.813853659	19.3	Chr16: 76.657597	0.446857411	40	0.0034513	0.27766	0.204102564	0.315757296
A_51_P145510	56635	10556	Prlpm	prolactin-like protein M	Chr13: 27.808565	-0.00441463	8.2	Chr17: 43.824635	0.446810507	40	0.0034553	0.19096	0	1
A_51_P288336	15445	1620	Hpd	4-hydroxyphenylpyruvic	Chr5: 123.171812	1.535341463	11.5	Chr16: 45.072615	-0.446716698	40	0.0034632	0.32587	0.269059829	0.183221285
A_51_P314077	24132	75022	Zfp53	Zinc finger protein 118	Chr17: 21.509035	-0.32734146	12.2	Chr12: 113.258515	-0.446622889	40	0.0034711	0.19255	0.306035224	0.128389529
A_51_P492807	72076	19187	2010013H21Rik	RIKEN cDNA 2010013H	Chr18: 46.465020	0.459195122	12.7	Chr16: 76.657597	0.446529081	40	0.0034791	0	0	1
A_51_P507401	68972	45949	1500010M24Rik	RIKEN cDNA 1500010M	Chr1: 191.045855	-0.26412195	9	Chr15: 54.577781	-0.446388368	40	0.0034911	0	0	1
A_51_P293278	21646		Tcte2	t-complex-associated te	Chr17: 13.716753	0.30195122	14.3	Chr16: 76.657597	0.446153846	40	0.0035111	0.13649	0.200683761	0.324072658
A_51_P293575	228602	12623	4930402H24Rik	RIKEN cDNA 4930402H	Chr2: 130.748678	0.222634146	11.5	Chr6: 101.847298	-0.446153846	40	0.0035111	0	-0.29304155	0.146264063
A_51_P312417	11571	50654	Crisp1	cysteine-rich secretory p	Chr17: 40.294412	-0.86709756	10.5	Chr5: 55.672880	-0.446060038	40	0.0035191	0.29033	0.32034188	0.110831986
A_51_P172692	54160	56292	Copg2	coatomer protein compl	ChrUn: 1.000000	-0.37163415	10.2	Chr15: 13.042333	-0.446013133	40	0.0035231	0.15316	-0.138461538	0.498299704
A_51_P397493	54125	41170	Polm	polymerase (DNA direct	Chr11: 5.827895	-0.6232439	15	Chr16: 74.917702	-0.445919325	40	0.0035312	0.29445	0.437948718	0.026265227
A_51_P370640	213436	19397	D430021I08	hypothetical protein D43	ChrX: 106.837859	0.099390244	11.5	Chr13: 90.420702	-0.44587242	40	0.0035352	0.18465	0	1
A_51_P331774	73866	87062	4930432H15Rik	RIKEN cDNA 4930432H	ChrX: 53.301361	-0.082	18.2	Chr6: 85.817555	0.44587242	40	0.0035352	0	0.357948718	0.073260528
A_51_P462018			--		Chr4: 119.204224	-0.07485366	12.5	Chr12: 79.968528	-0.445825516	40	0.0035392	0	0	1
A_51_P167932	331537	16553	E230019M04	hypothetical protein E23	ChrX: 140.106088	0.422853659	10.2	Chr4: 3.703668	0.445684803	40	0.0035514	0	0	1
A_51_P192909	171209		Accn3	amiloride-sensitive catic	Chr5: 24.416954	1.092146341	7.7	Chr15: 13.042333	-0.44554409	40	0.0035636	0.25925	-0.110104293	0.592342152
A_51_P326909	216543	65235	BC027174	RIKEN cDNA 6030463E	Chr11: 20.228513	-0.55821951	8.5	Chr9: 110.798657	-0.445450281	40	0.0035717	0	0	1
A_51_P248335	72701	18975	Znf618	zinc finger protein 618	Chr4: 63.115544	0.506536585	10.7	Chr11: 90.803102	0.445168856	40	0.0035962	0	0	1
A_51_P485655			A830058L05		Chr17: 21.690838	-0.20695122	13.8	Chr9: 31.156625	-0.445168856	40	0.0035962	0	0	1
A_51_P136588	258933	17439	Olfr796		Chr10: 129.607566	1.872292683	18.1	Chr2: 149.665875	0.445028143	40	0.0036085	0	0.228717949	0.259870048
A_51_P137688	320623		E330005K07Rik	RIKEN cDNA E330005K	--	0.072731707	10.1	Chr16: 76.657597	0.444981238	40	0.0036126	0	0	1
A_51_P223458	67065	1303	Polr3d	polymerase (RNA) III (D	Chr14: 70.439200	0.087219512	11.3	Chr6: 85.817555	0.444934334	40	0.0036167	0.24667	-0.072491025	0.724899993
A_51_P441286	219022	14397	Ttc5	hypothetical protein 593	Chr14: 50.775767	-0.03612195	17.2	Chr17: 75.066022	0.444465291	40	0.0036581	0.18469	-0.059145299	0.77375281
A_51_P101719	67120	12085	Ttc14	RIKEN cDNA 2700016E	Chr3: 33.807275	-0.95526829	9.3	Chr2: 145.281646	-0.444465291	40	0.0036581	0	0.127521368	0.533156685
A_51_P188211	17187	1786	Max	Max protein	Chr12: 76.937296	-0.91858537	12.5	Chr5: 66.502623	0.444230769	40	0.0036789	0.34024	0.427008547	0.030607178
A_51_P140780	20615	8251	Snapap	synaptosomal-associate	Chr3: 90.488425	-0.73739024	10.4	Chr7: 104.149021	-0.444136961	40	0.0036873	0.25891	-0.300512821	0.135708773
A_51_P164004	258029		NG_001916.1		ChrUn: 1.000000	-0.15639024	13.2	Chr2: 26.877889	0.443902439	40	0.0037083	0	0	1
A_51_P398878	80914	40850	Uck2	uridine-cytidine kinase 2	Chr1: 167.226108	-0.15773171	16.7	Chr1: 166.983006	0.443902439	40	0.0037083	0.20098	0.102222222	0.61799689
A_51_P408946	12447	14452	Ccne1	cyclin E1	Chr7: 38.098007	0.343390244	15.6	Chr16: 74.917702	0.443855535	40	0.0037125	0.33222	-0.016068376	0.93875377
A_51_P300395	69318	78032	1700007K09Rik	RIKEN cDNA 1700007K	Chr7: 131.326073	0.274341463	13.1	Chr13: 81.107254	0.44380863	40	0.0037167	0	0.074188034	0.717994585
A_51_P402403	171254	110880	V1ri3		Chr13: 22.354497	0.076317073	13	Chr16: 76.657597	-0.443667917	40	0.0037294	0	0.243076923	0.230487901
A_51_P265106	235339	6814	Dlat	dihydrolipoamide S-acet	Chr9: 50.634848	-1.50095122	15.4	Chr15: 57.160484	-0.443292683	40	0.0037633	0.31578	-0.171282051	0.401094116
A_51_P274274	282033		Rbbp1	retinoblastoma binding p	Chr12: 71.018927	0.17795122	19.3	Chr7: 3.706755	-0.44315197	40	0.0037761	0	0	1
A_51_P288523	71678	13499	Brox	BRO1 domain and CAA	Chr6: 112.608003	-0.16958537	10.5	Chr17: 43.824635	0.443105066	40	0.0037804	0.25825	0	1
A_51_P470769	93708	110933	Pcdhga1	protocadherin gamma s	Chr18: 37.841702	-0.80029268	10.4	Chr11: 76.947549	0.442729831	40	0.0038147	0.2324	-0.123418803	0.546524136
A_51_P353606	280668	73803	Adam1a	a disintegrin and metallo	Chr5: 121.518991	-0.7094878	13.8	Chr17: 45.311479	-0.442120075	40	0.0038711	0.18951	-0.197948718	0.33082185
A_51_P506312	52626	12684	D11Ertd497e	DNA segment, Chr 11, E	Chr11: 51.977264	-0.69065854	11.5	Chr10: 45.812830	0.442120075	40	0.0038711	0	0.119316239	0.560047855
A_51_P228004			A830058L05		Chr9: 122.909777	-0.35173171	11.5	Chr4: 150.309420	-0.442026266	40	0.0038798	0	0	1
A_51_P208990	21778	32072	Tex9	testis expressed gene 9	Chr9: 72.472590	0.021317073	6.9	Chr8: 123.700192	-0.441932458	40	0.0038886	0.15961	0.232820513	0.251234549
A_51_P456838	213311	78724	D630045D17Rik	RIKEN cDNA D630045D	Chr13: 56.537676	-0.20458537	11.7	Chr15: 12.672705	-0.441932458	40	0.0038886	0.11354	0	1
A_51_P504672	17261	4327	Mef2d	myocyte enhancer facto	Chr3: 88.168292	0.32704878	10.8	Chr7: 3.706755	0.441885553	40	0.003893	0.30359	-0.189434094	0.354002748
A_51_P393399	36778		Asph	aspartate-beta-hydroxyla	Chr4: 9.629083	-0.06395122	10.5	Chr7: 120.693265	-0.441744841	40	0.0039062	0	-0.065982906	0.748251126
A_51_P181205	75758	12622	9130401M01Rik	RIKEN cDNA 9130401M	Chr15: 58.022343	-0.17197561	11.3	Chr8: 44.622962	0.441604128	40	0.0039194	0	-0.212991453	0.294768598
A_51_P133618	12723	63	Clcn1	chloride channel 1	Chr6: 132.460315	0.171560976	12.4	Chr16: 76.657597	-0.441463415	40	0.0039326	0.31053	-0.217777778	0.283845099
A_51_P181286	12515	90963	Cd69	CD69 antigen	Chr6: 129.267679	-0.78665854	10	Chr11: 95.628101	0.44141651	40	0.0039371	0.40332	0.170285521	0.405586512
A_51_P167979	240776	16121	--		Chr1: 140.518882	0.083121951	10.5	Chr16: 76.657597	0.441369606	40	0.0039415	0.12499	0	1
A_51_P491329	67182	4213	Map17	membrane-associated p	Chr4: 115.093635	-1.88809756	13.2	Chr9: 108.514868	-0.441343403	40	0.003944	0.29738	0	1
A_51_P395370	319767	70969	9030605H24Rik	RIKEN cDNA 9030605H	Chr11: 43.158766	0.053853659	8.3	Chr2: 170.826972	0.441275797	40	0.0039504	0	0	1
A_51_P283708	17685	210	Msh2	mutS homolog 2 (DNA r	Chr17: 87.723653	-0.94717073	10.8	Chr6: 85.817555	-0.44075985	40	0.0039995	0.26524	-0.043418803	0.833256796
A_51_P399071	8125		ANP32A	acidic (leucine-rich) nuc	Chr9: 62.378368	-0.86678049	10.5	Chr15: 13.042333	-0.44075985	40	0.0039995	0	-0.465982906	0.017390968
A_51_P491835	72876		2900009J20Rik	RIKEN cDNA 2900009J	Chr12: 72.799741	-0.97629268	14.3	Chr13: 107.682463	-0.440619137	40	0.004013	0	0	1
A_51_P369740			--	Mus musculus 15 days (	Chr2: 3.429087	0.167317073	10.6	Chr17: 31.632850	0.440525328	40	0.004022	0	0	1
A_51_P360531	192163	75096	Pcdha3	protocadherin alpha 3	Chr18: 36.948478	0.285292683	9	Chr16: 78.133286	0.44043152	40	0.004031	0	0.113846154	0.578316353
A_51_P433237	12560	20425	Cdh3	cadherin 3	Chr8: 106.555593	0.021536585	10.5	Chr2: 36.101675	0.44043152	40	0.004031	0.39452	0.297094017	0.140382236
A_51_P153908	74241	11574	D1Bwg1363e	DNA segment, Chr 1, Br	Chr1: 75.475118	-1.02541463	27.4	Chr16: 62.269705	0.440384615	40	0.0040355	0.26841	0	1
A_51_P288386	18693	7470	Prkcabp	protein kinase C, alpha I	Chr15: 79.248819	0.424536585	15.2	Chr2: 61.101669	0.440384615	40	0.0040355	0.27498	0	1
A_51_P293077	17283	7418	Men1	multiple endocrine neop	Chr19: 6.340368	0.269292683	9.2	Chr15: 54.577781	0.440290807	40	0.0040446	0.4002	0.266324786	0.187846022
A_51_P370222			--		Chr6: 39.643166	-0.02931707	7.4	Chr18: 70.785270	0.440196998	40	0.0040537	0	0	1
A_51_P294555	213002	72556	A330075D07	hypothetical protein A33	Chr7: 141.015815	-1.01539024	7.1	Chr7: 36.769986	0.440150094	40	0.0040582	0.23132	0	1
A_51_P209965	72041	9747	Alkbh4	alkylation repair homolo	Chr5: 136.141387	0.280195122	10	Chr1: 133.994466	0.440030021	40	0.0040699	0.24337	0.326495726	0.103855955
A_51_P285217	223989	40967	BC031575	cDNA sequence BC031	Chr16: 14.139080	-0.04207317	12.1	Chr12: 46.816738	-0.439774859	40	0.0040947	0.14507	0	1
A_51_P489688	258364	64863	Olfr976	olfactory receptor MOR2	Chr9: 39.956144	0.267512195	17.3	Chr18: 75.683953	0.439587242	40	0.0041131	0	0.221880342	0.274692712
A_51_P303437			--	Mus musculus transcrib	Chr11: 59.844810	-0.17468293	11.4	Chr18: 70.123703	-0.439493433	40	0.0041223	0	0	1
A_51_P352452	223843	54981	9630005K15	hypothetical protein 963	Chr15: 95.624640	-1.73560976	15.1	Chr10: 123.013421	-0.439399625	40	0.0041315	0.13936	0	1
A_51_P479652	71902	10202	Tp120a	TBP-interacting protein	Chr10: 119.202429	-0.50768293	10.4	Chr9: 121.477873	-0.439305816	40	0.0041408	0.21541	0	1
A_51_P415247	75129		4930524J08Rik	RIKEN cDNA 4930524J	Chr5: 99.979494	-0.02753659	12	Chr5: 136.250577	0.439258912	40	0.0041454	0	0.168547009	0.408752924
A_51_P154818	75039		4930505H01Rik	RIKEN cDNA 4930505H	Chr17: 59.011196	0.142878049	10.8	Chr11: 98.919440	0.43902439	40	0.0041686	0	0.123418803	0.546524136
A_51_P318375	210009	11419	Mtrr	5-methyltetrahydrofolate	ChrUn: 1.000000	0.614414634	8.3	Chr8: 36.593701	-0.43902439	40	0.0041686	0.29576	-0.234188034	0.248398941
A_51_P333401	10513		Appbp2	amyloid beta precursor	ChrUn: 1.000000	-0.14465854	9.1	Chr11: 119.354809	0.438930582	40	0.0041779	0	0.01709694	0.933934282
A_51_P260499	226970	49414	9330140K16Rik	RIKEN cDNA 9330140K	Chr1: 34.812670	-4.23485366	21.1	Chr10: 123.013421	-0.438789869	40	0.0041919	0.2562	0	1
A_51_P491195	56305	4533	Pitpnb	phosphotidylinositol tran	Chr5: 111.335495	0.604585366	12.8	Chr2: 104.427306	-0.438789869	40	0.0041919	0.32182	-0.282051282	0.162349405
A_51_P411297	18141	5190	Nup50	nucleoporin 50	Chr15: 84.939787	0.555634146	13.9	Chr3: 19.644553	0.43869606	40	0.0042013	0.22571	0.362051282	0.069851918
A_51_P475628	68957	19746	1500001B10Rik	RIKEN cDNA 1500001B	Chr3: 88.368283	-0.62431707	10.3	Chr11: 98.763658	0.438461538	40	0.0042248	0.17908	0	1
A_51_P510893	11576	36278	Afp	alpha fetoprotein	Chr5: 90.501453	0.816170732	11.9	Chr16: 78.133286	0.438461538	40	0.0042248	0.37543	0.247221751	0.223375326
A_51_P346232	68608		1110021D17Rik	RIKEN cDNA 1110021D	ChrUn: 1.000000	-0.15078049	19.4	Chr13: 97.781219	0.43836773	40	0.0042342	0	0	1
A_51_P410525	20493	31126	Slc10a1	solute carrier family 10 (	Chr12: 80.955765	1.978780488	9.7	Chr13: 91.702351	-0.437945591	40	0.0042768	0.31781	0.164444444	0.420395304
A_51_P496741	54631	20974	Nphs1	nephrosis 1, congenital,	Chr7: 30.481976	-0.1034878	12.3	Chr7: 3.706755	0.437898687	40	0.0042816	0.37215	0.236923077	0.24279191
A_51_P125425	116905	1059	Dph2l1	diptheria toxin resistanc	Chr11: 75.179236	0.672804878	9.1	Chr13: 111.771070	0.437851782	40	0.0042863	0.27406	0	1
A_51_P478930			--	Mus musculus adult ma	Chr3: 133.479191	-1.25568293	11.8	Chr12: 46.816738	-0.437617261	40	0.0043102	0	0	1
A_51_P251737	14070	7313	--		ChrX: 74.843239	0.172365854	8.1	Chr2: 131.056131	-0.437429644	40	0.0043294	0.1766	0	1
A_51_P320539			--	Mus musculus, clone IM	Chr15: 27.606079	0.853926829	9.8	Chr17: 27.451463	0.437288931	40	0.0043439	0	0	1
A_51_P244586	72700		Zfp618	zinc finger protein 618	Chr4: 63.133738	-1.57346341	21.3	Chr17: 36.878447	-0.437288931	40	0.0043439	0	-0.141196581	0.489769967
A_51_P499237	224171	10842	C330027C09Rik	RIKEN cDNA C330027C	Chr16: 49.018525	-0.65456098	14.1	Chr6: 10.783839	-0.437288931	40	0.0043439	0.28637	-0.321025641	0.110039946
A_51_P509760	54130	21173	Actr1a	ARP1 actin-related prote	Chr19: 46.376897	-0.43097561	17.1	Chr16: 82.141058	0.437242026	40	0.0043487	0.25748	0.059145299	0.77375281
A_51_P481569	72047	49137	Ddx42	DEAD (Asp-Glu-Ala-Asp	Chr11: 106.249066	-0.7894878	12.6	Chr8: 126.582424	-0.437101313	40	0.0043632	0.16671	0.361367521	0.070411263
A_51_P515828	72007	11244	1600019O04Rik	RIKEN cDNA 1600019C	Chr3: 27.494644	-0.03268293	14.1	Chr16: 76.657597	-0.4369606	40	0.0043777	0.29451	0	1
A_51_P414815	259106	73941	Olfr552		Chr7: 102.605247	0.235121951	10.9	Chr12: 102.420291	-0.436913696	40	0.0043826	0	0.263634813	0.193145128
A_51_P249383	223658		D330001F17Rik	RIKEN cDNA D330001F	Chr15: 76.450181	0.299609756	26.5	Chr16: 76.657597	0.436866792	40	0.0043874	0	0.092649573	0.651499706
A_51_P259459	18036	37631	Nfkbib	nuclear factor of kappa l	Chr7: 28.759148	0.702	12.8	Chr15: 12.672705	0.436819887	40	0.0043923	0.36588	-0.037264957	0.856811056
A_51_P296100	214952	56038	Rhot2	ras homolog gene famil	Chr17: 25.838841	-0.62346341	11.2	Chr1: 154.205433	-0.436679174	40	0.0044069	0.20985	-0.179487179	0.378616364
A_51_P259378	81018	10265	Zfp313		Chr2: 167.515960	0.113536585	11.4	Chr15: 3.279128	0.436585366	40	0.0044167	0.20164	-0.347008547	0.082983313
A_51_P307840	13012	4011	Cst8	cystatin 8 (cystatin-relat	Chr2: 148.805452	-1.82117073	19.9	Chr7: 3.706755	-0.436397749	40	0.0044363	0.32143	0.202735043	0.319067276
A_51_P458474	66195		1110058A15Rik	RIKEN cDNA 1110058A	Chr3: 92.750263	0.20295122	8.7	Chr12: 104.393980	0.43630394	40	0.0044461	0	0	1
A_51_P286348	258375	45066	Olfr794		Chr10: 129.571277	-0.10219512	10.1	Chr16: 76.657597	-0.436116323	40	0.0044658	0	0.205470085	0.312468885
A_51_P459787	277396	18628	C130068N17	hypothetical protein C13	Chr2: 69.836078	-0.13507317	10.8	ChrX: 50.932420	0.436116323	40	0.0044658	0	0	1
A_51_P437717	56700	10562	0610031J06Rik	RIKEN cDNA 0610031J	Chr3: 88.328327	0.527878049	17.3	Chr2: 142.704064	0.436069418	40	0.0044708	0.25423	0.416068376	0.03551623
A_51_P278103	70527	4719	Stambp	Stam binding protein	Chr6: 83.543213	-0.56892683	13.2	Chr6: 85.817555	-0.436069418	40	0.0044708	0.22431	0.174017094	0.393518116
A_51_P235784	14525	49157	Gcet	germinal center express	Chr16: 45.621104	-0.08253659	10.3	Chr19: 22.456818	0.436022514	40	0.0044757	0.27339	0	1
A_51_P447299	268882	14713	BC026799	cDNA sequence BC026	Chr16: 32.238663	-0.02953659	5.3	ChrX: 36.008083	-0.435928705	40	0.0044856	0.14984	0	1
A_51_P448881	51897	32229	D2Ertd391e	DNA segment, Chr 2, El	Chr2: 91.675164	0.795243902	14.6	Chr16: 74.917702	0.435787992	40	0.0045005	0.13788	0.040006839	0.846144382
A_51_P233546	23920	56539	Insrr	insulin receptor-related	Chr3: 87.815455	0.583902439	18	Chr10: 20.325682	0.435620808	40	0.0045182	0.24885	0.428376068	0.030034451
A_51_P227445	69849		2010007H06Rik	RIKEN cDNA 2010007H	Chr9: 51.280803	-2.34982927	8.9	Chr10: 13.009200	-0.435506567	40	0.0045304	0	0.154871795	0.448270539
A_51_P465644	21943	2744	Tnfsf11	tumor necrosis factor (li	Chr14: 78.278329	0.07695122	10.7	Chr7: 3.706755	-0.435506567	40	0.0045304	0.37663	-0.192478632	0.344577957
A_51_P308070	235431	21228	E130012P22Rik	RIKEN cDNA E130012F	Chr9: 62.419849	0.074317073	13.4	Chr9: 108.514868	-0.435272045	40	0.0045554	0	0	1
A_51_P468456	20197	2223	S100a3	S100 calcium binding pr	Chr3: 90.602474	0.033512195	11.3	Chr17: 27.451463	0.434896811	40	0.0045958	0.25507	0.082065312	0.690227713
A_51_P323903			--		Chr11: 23.393750	0.120780488	9.9	Chr2: 104.427306	-0.434615385	40	0.0046262	0	0	1
A_51_P163867	70351		Ppp4r1	protein phosphatase 4, r	Chr17: 65.841640	-0.38619512	7.8	Chr14: 120.357365	0.434380863	40	0.0046517	0	0.527953504	0.005568896
A_51_P516753	83408		Ian4	immune associated nuc	Chr6: 48.765025	-1.78536585	14.5	Chr6: 47.027242	0.434146341	40	0.0046774	0.25782	0	1
A_51_P445912	71928		2310047K21Rik	RIKEN cDNA 2310047K	Chr2: 104.818444	-0.908	11.5	Chr16: 76.657597	-0.434146341	40	0.0046774	0	-0.415384615	0.035843035
A_51_P311540	12861	3219	Cox6a1	cytochrome c oxidase su	Chr5: 115.345717	-1.03168293	14.3	Chr16: 44.259473	-0.434052533	40	0.0046876	0.24331	0.307350427	0.126706439
A_51_P398859	258746	82999	Olfr648		Chr7: 104.180053	0.388853659	12.7	Chr12: 84.531870	0.434005629	40	0.0046928	0	0.140512821	0.491895351
A_51_P477225	113867	113975	V1rb9		Chr6: 89.746918	0.682731707	8.7	Chr5: 115.147874	0.433864916	40	0.0047083	0	0.435897436	0.027038443
A_51_P496335	18789	23389	Papola	poly (A) polymerase alpl	Chr12: 105.813445	0.195926829	14.6	Chr16: 76.657597	0.433677298	40	0.004729	0.23	0.323760684	0.106914267
A_51_P197321	12757	1384	Clta	clathrin, light polypeptid	Chr4: 44.032685	-0.54887805	14.8	Chr11: 119.354809	0.433630394	40	0.0047342	0.23505	0.102905983	0.615631552
A_51_P459770			--	Mus musculus 16 days (	Chr18: 43.566372	-0.01421951	13.4	Chr16: 45.072615	0.433536585	40	0.0047446	0	0	1
A_51_P502762	170787	23749	Hdac10	histone deacetylase 10	Chr15: 89.123307	-0.52960976	13.4	Chr5: 21.247474	-0.432786116	40	0.0048284	0.28643	0.26017094	0.198550035
A_51_P434198	52206	40873	Anapc4	DNA segment, Chr 5, El	Chr5: 52.866617	-1.06585366	8.9	Chr16: 39.630837	-0.432645403	40	0.0048443	0	-0.424273504	0.031779304
A_51_P435830	382077	19641	Tzip1	protein kinase C conser	Chr9: 58.102179	2.198560976	15.2	Chr10: 28.781312	0.432645403	40	0.0048443	0.17002	0	1
A_51_P147933			Dio3as	deiodinase, iodothyronir	Chr12: 110.277150	0.819487805	13.7	Chr7: 3.706755	-0.432363977	40	0.0048761	0	0	1
A_51_P322220	101013		AW742481	expressed sequence AV	Chr5: 125.460270	-0.61226829	11	Chr16: 27.062879	-0.432363977	40	0.0048761	0	0	1
A_51_P250445	57247	10731	Zfp276	zinc finger protein (C2H	Chr8: 123.269485	0.462658537	10.3	Chr10: 86.451679	-0.431988743	40	0.0049189	0.14244	-0.272183283	0.178569974

A_51_P513515	74562		Fer1l4	fer-1-like 4 (C. elegans)	Chr2: 156.019387	0.545780488	10.5	Chr9: 83.872319	0.431941839	40	0.0049242	0	0.269105834	0.183725972

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Supplementary Table 5

Citations: Please see http://www.genenetwork.org/reference.html

Trait : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Females : 10420899

Database : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Females

Date : October 08, 2017

Time : 23:51 GMT

Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	mologene	Symbol	Description	Location (Chr: Mb)	Mean Expr	Max LR	RS Location (Ch	Sample r	Case	Sample p(r)	Lit Corr	Tissue r	Tissue p(r)
10420899	268756	6566	Gulo	gulonolactone (L	Chr14: 65.986786	7.1166353	10.3	Chr15: 102.3208	1	67	0	1	1	1
10341511			Affy_10341511	Affymetrix Mous	ChrUn: 1.000000	7.2748941	13.4	Chr7: 67.469060	-0.6317801	67	2.6645E-09	0	0	1
10338425			Affy_10338425	Affymetrix Mous	ChrUn: 1.000000	7.5854823	9.4	Chr2: 179.31687	-0.6142248	67	1.0589E-08	0	0	1
10340223			Affy_10340223	Affymetrix Mous	ChrUn: 1.000000	8.1339882	8.7	Chr15: 41.49812	-0.6131765	67	1.1463E-08	0	0	1
10496656	71355	65061	Col24a1	collagen, type X	Chr3: 145.292472	7.6216941	12.3	Chr7: 39.677599	0.6127467	67	1.184E-08	0.42174	-0.1049721	0.609811
10552348			Affy_10552348	predicted gene	Chr7: 42.951739	8.0726353	10.5	Chr8: 118.38069	0.6088274	67	1.5454E-08	0	0	1
10341523			Affy_10341523	Affymetrix Mous	ChrUn: 1.000000	6.1171294	10.2	Chr10: 68.34062	-0.6058341	67	1.9261E-08	0	0	1
10341103			Affy_10341103	Affymetrix Mous	ChrUn: 1.000000	7.3705882	11.6	Chr6: 34.483299	-0.6030467	67	2.359E-08	0	0	1
10340702			Affy_10340702	Affymetrix Mous	ChrUn: 1.000000	7.5689529	11.5	Chr6: 95.073515	-0.6025404	67	2.4469E-08	0	0	1
10424062	239410		A930017M01Rik	RIKEN cDNA A9	Chr15: 44.883474	7.0132941	10.4	Chr8: 118.38069	0.5989532	67	3.1641E-08	0	0.0111317	0.956958
10573152	22227	22524	Ucp1	uncoupling prote	Chr8: 83.290352	6.6335647	10.7	Chr17: 33.11021	0.5965879	67	3.741E-08	0.46	0.0184536	0.928705
10340501	15441	7774	Hp1bp3	heterochromatin	Chr4: 138.216627	7.7092588	10.8	Chr2: 179.31687	-0.5950725	67	4.1613E-08	0	0.0060461	0.976615
10604473	209268	1195	Igsf1	immunoglobulin	ChrX: 49.782544	6.6626353	9.9	Chr7: 68.323956	0.5936099	67	4.6089E-08	0.24915	-0.0262826	0.898587
10477069	21407	37943	Tcf15	transcription fac	Chr2: 152.143572	7.6585059	15.7	Chr7: 67.469060	0.5911915	67	5.45E-08	0.35549	-0.1303513	0.525629
10533628	76399		Il31	interleukin 31	Chr5: 123.480240	7.7102	11.8	Chr6: 101.84729	0.5907154	67	5.6318E-08	0.50017	-0.0461913	0.822706
10494761	242122	11627	Vtcn1	V-set domain co	Chr3: 100.825479	6.7796353	12.4	Chr7: 40.170384	0.5906223	67	5.668E-08	0.51626	-0.0078399	0.96968
10536845	68794	37481	Flnc	filamin C, gamm	Chr6: 29.433459	7.3488824	11.6	Chr7: 135.31453	0.5875006	67	7.0174E-08	0.44274	-0.1291245	0.529567
10342657			Affy_10342657	Affymetrix Mous	ChrUn: 1.000000	8.8731177	8.2	Chr8: 118.38069	-0.5872685	67	7.1289E-08	0	0	1
10515808	674677		LOC674677	LOC674677	Chr4: 118.592836	6.5358235	8.7	Chr15: 102.3604	0.5862218	67	7.6531E-08	0	0	1
10422585	14169	3037	Fgf14	fibroblast growth	Chr14: 123.977907	6.5111294	9.5	Chr18: 74.48715	0.5858342	67	7.8563E-08	0.3998	0.2850154	0.158158
10473610	258897	77384	Olfr1201	olfactory recepto	Chr2: 88.794384	5.014247	8	Chr6: 23.372761	0.5850718	67	8.2709E-08	0	-0.1629626	0.426369
10424624	107831	1287	Adgrb1	adhesion G prot	Chr15: 74.516196	7.8270471	9	Chr7: 36.955819	0.5844757	67	8.6092E-08	0.48868	0	1
10339641			Affy_10339641	Affymetrix Mous	ChrUn: 1.000000	7.5349176	12.7	Chr8: 118.38069	-0.5840941	67	8.8326E-08	0	0	1
10554547			mir-1839	Affymetrix Mous	Chr7: 81.529855	6.1560588	11.2	Chr15: 32.69618	-0.5831959	67	9.3802E-08	0	0	1
10568805	14912	18580	Nkx6-2	NK6 homeobox	Chr7: 139.579299	8.0663529	11	Chr7: 36.955819	0.5831023	67	9.4391E-08	0.34236	-0.1035655	0.614635
10419096	20390	2272	Sftpd	surfactant assoc	Chr14: 41.172214	6.9665765	11.9	ChrX: 133.60391	0.5828782	67	9.5815E-08	0.51472	0.042831	0.835424
10339668			Affy_10339668	Affymetrix Mous	ChrUn: 1.000000	7.9650941	11.4	Chr2: 176.00000	-0.5819407	67	1.0199E-07	0	0	1
10342689			Affy_10342689	Affymetrix Mous	ChrUn: 1.000000	7.7303647	9	Chr7: 67.469060	-0.5816035	67	1.043E-07	0	0	1
10338287			Affy_10338287	Affymetrix Mous	ChrUn: 1.000000	8.2085412	8.5	Chr7: 68.323956	-0.5812866	67	1.0652E-07	0	0	1
10355893	13838	20933	Epha4	Eph receptor A4	Chr1: 77.367185	7.1785647	9	Chr6: 94.646958	0.5806631	67	1.1102E-07	0.34022	0.2424488	0.232729
10340289			Affy_10340289	Affymetrix Mous	ChrUn: 1.000000	7.5778471	8.6	Chr7: 36.449783	-0.5802808	67	1.1386E-07	0	0	1
10436606			Affy_10436606	Affymetrix Mous	Chr16: 78.117149	7.3277764	11.3	Chr8: 118.38069	0.5785219	67	1.2785E-07	0	0	1
10338960			Affy_10338960	Affymetrix Mous	ChrUn: 1.000000	4.8713647	10.4	Chr16: 26.42216	-0.5779205	67	1.3299E-07	0	0	1
10528864	269637		Cnpy1	canopy 1 homol	Chr5: 28.202446	7.2010236	8.8	Chr8: 117.54501	0.5778802	67	1.3334E-07	0	0.5424347	0.004198
10340740			Affy_10340740	Affymetrix Mous	ChrUn: 1.000000	8.0763882	9.9	Chr8: 121.00000	-0.5760892	67	1.4987E-07	0	0	1
10340803			Affy_10340803	Affymetrix Mous	ChrUn: 1.000000	5.9317882	11.3	Chr7: 27.524276	-0.5753368	67	1.5738E-07	0	0	1
10593872	382075	27911	Odf3l1	outer dense fibe	Chr9: 56.848659	6.9011177	11.1	Chr7: 67.469060	0.5752061	67	1.5872E-07	0	-0.0759146	0.712437
10476782	78774	9202	4930529M08Rik	RIKEN cDNA 49	Chr2: 145.934784	6.0479176	11.2	Chr19: 8.707695	0.5746687	67	1.6434E-07	0	0.4465735	0.022197
10341686			Affy_10341686	Affymetrix Mous	ChrUn: 1.000000	12.563212	10.4	Chr7: 67.469060	0.5743132	67	1.6816E-07	0	0	1
10343675			Affy_10343675	Affymetrix Mous	ChrUn: 1.000000	8.2990353	10.9	Chr7: 68.323956	-0.5732801	67	1.7974E-07	0	0	1
10351863	258881	27288	Olfr1404	olfactory recepto	Chr1: 173.215607	5.5097529	15.2	Chr12: 28.80497	0.5731385	67	1.8138E-07	0	0.2361387	0.24549
10599948	627927	123427	Gm6812	predicted gene 6	ChrX: 69.945300	6.2978824	9	Chr15: 80.25285	0.5726398	67	1.8728E-07	0	0	1
10473256	241516	109420	Fsip2	fibrous sheath-in	Chr2: 82.976510	5.7502471	10.6	Chr7: 135.31453	0.57211	67	1.9376E-07	0.19607	-0.0901015	0.661585
10517213	194231	4604	Cnksr1	connector enhar	Chr4: 134.228043	6.4692	9.8	Chr10: 100.2384	0.5710831	67	2.069E-07	0	-0.2867831	0.155481
10340828			Affy_10340828	Affymetrix Mous	ChrUn: 1.000000	8.2370353	11.4	Chr10: 57.75246	-0.5707402	67	2.1147E-07	0	0	1
10476104			Affy_10476104	Affymetrix Mous	Chr2: 130.277697	7.3300588	11.8	Chr15: 32.69618	-0.5692597	67	2.3233E-07	0	0	1
10344465			Affy_10344465	Affymetrix Mous	ChrUn: 1.000000	5.5539059	11.5	Chr7: 73.746984	-0.5691729	67	2.3361E-07	0	0	1
10338417			Affy_10338417	Affymetrix Mous	ChrUn: 1.000000	7.5058471	9.3	Chr12: 16.82846	-0.5683253	67	2.4647E-07	0	0	1
10350951	21960	76705	Tnr	tenascin R	Chr1: 159.523769	6.5969176	9.5	Chr4: 151.28059	0.567871	67	2.5363E-07	0.45205	0.1158147	0.573163
10405139	328250	107241	Gm806	predicted gene 8	Chr13: 50.467307	5.5424	10	Chr2: 131.55745	0.5678401	67	2.5413E-07	0	0.265769	0.189432
10395682	544864		Gm5785	predicted gene 5	Chr12: 51.829665	8.2804236	10.7	Chr7: 134.83441	-0.567028	67	2.6745E-07	0	0	1
10454828	448986		Pnet-ps	prenatal ethanol	Chr18: 35.580323	8.5888824	9.8	Chr15: 37.46241	-0.5668089	67	2.7115E-07	0.43482	0	1
10341939			Affy_10341939	Affymetrix Mous	ChrUn: 1.000000	9.9242707	13	Chr2: 179.31687	0.5665824	67	2.7503E-07	0	0	1
10525158	23961		Oas1b	2'-5' oligoadenyl	Chr5: 120.812638	8.0803059	12.2	Chr6: 121.48663	-0.5659306	67	2.8649E-07	0.51482	0.0886403	0.66676
10341599			Affy_10341599	Affymetrix Mous	ChrUn: 1.000000	6.8977647	8.6	Chr8: 118.38069	-0.5658458	67	2.8801E-07	0	0	1
10438668	12970	40695	Crygs	crystallin, gamm	Chr16: 22.805147	7.012	7	Chr4: 133.96417	0.5653409	67	2.9724E-07	0.42566	0.2608839	0.198004
10520633	69852	76449	Tcf23	transcription fac	Chr5: 30.968662	7.7694	11.6	Chr7: 39.677599	0.5652806	67	2.9836E-07	0.33333	0.019211	0.925786
10496492			Affy_10496492	Affymetrix Mous	Chr3: 138.601844	7.3407059	7.6	Chr2: 79.342066	0.5641167	67	3.2078E-07	0	0	1
10339987			Affy_10339987	Affymetrix Mous	ChrUn: 1.000000	7.6439412	10.5	Chr8: 117.54501	-0.5634749	67	3.3381E-07	0	0	1
10536787			mir-129-1	Affymetrix Mous	Chr6: 29.022619	8.0226706	10.6	Chr7: 38.109850	0.5631154	67	3.4133E-07	0	0	1
10415425	545055	115745	Cma2	chymase 2, mas	Chr14: 55.950980	6.3131059	9.2	Chr8: 118.38069	0.5630313	67	3.4311E-07	0.43357	0.2013305	0.324012
10343272			Affy_10343272	Affymetrix Mous	ChrUn: 1.000000	8.1180941	12.6	Chr15: 41.49812	-0.5623854	67	3.5708E-07	0	0	1
10569830	69697	18966	2310057J16Rik	RIKEN cDNA 23	Chr8: 3.587676	7.766	14.8	Chr7: 100.08108	0.5615278	67	3.7645E-07	0.30889	-0.0323419	0.875369
10342527			Affy_10342527	Affymetrix Mous	ChrUn: 1.000000	7.938047	7.4	Chr15: 41.49812	-0.5613369	67	3.809E-07	0	0	1
10405842	238683	117509	4932441B19Rik	RIKEN cDNA 49	Chr13: 65.033089	6.1964706	9	Chr2: 79.342066	0.5608612	67	3.9219E-07	0	-0.0514034	0.803066
10355343	74591	45441	Abca12	ATP-binding cas	Chr1: 71.243300	6.4214706	16.9	Chr7: 58.449542	0.5598909	67	4.162E-07	0.50258	-0.1555289	0.448046
10342293			Affy_10342293	Affymetrix Mous	ChrUn: 1.000000	7.3974706	8.9	Chr9: 121.79702	-0.5598201	67	4.1801E-07	0	0	1
10342543			Affy_10342543	Affymetrix Mous	ChrUn: 1.000000	6.3185412	8.7	Chr10: 57.75246	-0.5591109	67	4.365E-07	0	0	1
10473458	258255	45796	Olfr1010	olfactory recepto	Chr2: 85.753363	6.2019412	8.2	Chr2: 45.622327	0.5590775	67	4.3739E-07	0	-0.1098446	0.593221
10342939			Affy_10342939	Affymetrix Mous	ChrUn: 1.000000	9.5830352	9.9	Chr15: 102.3604	-0.5574772	67	4.8205E-07	0	0	1
10594199	207596	49796	Thsd4	thrombospondin	Chr9: 59.969709	7.1249059	8.6	Chr10: 19.62909	0.5573115	67	4.8691E-07	0.31843	-0.1351536	0.510353
10365286	66341	81651	Eid3	EP300 interactir	Chr10: 82.866658	7.4797412	11.6	Chr10: 86.45168	-0.5573046	67	4.8712E-07	0.24684	-0.0969036	0.637695
10347427	269209	49432	Stk36	serine/threonine	Chr1: 74.601455	7.5303059	9.4	Chr13: 93.09386	0.5570529	67	4.9459E-07	0.42937	0.0514071	0.803052
10538271	213320		Gm4782	predicted gene 4	Chr6: 50.608637	6.4384588	11.7	Chr5: 21.026344	0.5559665	67	5.2811E-07	0	0	1
10341276			Affy_10341276	Affymetrix Mous	ChrUn: 1.000000	6.5522	9.7	Chr7: 67.469060	-0.5552166	67	5.5247E-07	0	0	1
10602284	18422	40759	Ott	ovary testis tran	ChrX: 147.993024	5.7232824	9.9	Chr12: 27.82284	0.5551587	67	5.544E-07	0.30742	-0.0189157	0.926924
10562736	70004	87573	1700028J19Rik	RIKEN cDNA 17	Chr7: 44.229933	8.6078941	8.6	Chr7: 68.323956	0.5551406	67	5.55E-07	0	-0.1242645	0.545301
10602044	245643		Frmpd3	FERM and PDZ	ChrX: 140.381971	6.3045059	12.4	Chr7: 66.068226	0.5543082	67	5.834E-07	0	-0.0097019	0.962483
10449756	74377	38263	Hsf2bp	heat shock trans	Chr17: 31.944769	6.8700824	12	Chr2: 179.08869	0.5540779	67	5.9149E-07	0.29766	-0.0919559	0.655039
10342097			Affy_10342097	Affymetrix Mous	ChrUn: 1.000000	6.6478706	17	Chr7: 68.323956	-0.5539404	67	5.9638E-07	0	0	1
10340986			Affy_10340986	Affymetrix Mous	ChrUn: 1.000000	7.1618471	8.5	Chr18: 11.37061	-0.5536432	67	6.0706E-07	0	0	1
10343480			Affy_10343480	Affymetrix Mous	ChrUn: 1.000000	6.9042941	13.3	Chr11: 48.11738	-0.5536301	67	6.0753E-07	0	0	1
10490621	20811	7957	Srms	src-related kinas	Chr2: 181.205563	7.6216471	11.9	Chr7: 38.109850	0.5534655	67	6.1354E-07	0.32212	-0.0743376	0.718169
10341734			Affy_10341734	Affymetrix Mous	ChrUn: 1.000000	5.3114823	13.6	Chr7: 67.469060	-0.553072	67	6.281E-07	0	0	1

10488642	246700	17045	Defb19	defensin beta 19	Chr2: 152.576086	6.8913882	12.7	Chr1: 173.67918	0.5529705	67	6.3191E-07	0.28852	-0.0422648	0.837571
10344592			Affy_10344592	Affymetrix Mous	ChrUn: 1.000000	7.9487765	10.2	Chr15: 102.3604	-0.5528894	67	6.3497E-07	0	0	1
10384102	237636	56585	Npc1l1	NPC1-like 1	Chr11: 6.211013	7.4497176	10.1	Chr7: 68.215797	0.5528236	67	6.3746E-07	0.54607	-0.0583285	0.777153
10340903			Affy_10340903	Affymetrix Mous	ChrUn: 1.000000	8.6540941	9.3	Chr7: 74.522856	0.5526207	67	6.452E-07	0	0	1
10463643			Affy_10463643	Affymetrix Mous	Chr19: 46.359036	5.3369059	14	Chr14: 63.56186	-0.5515399	67	6.8795E-07	0	0	1
10475027	22174	4585	Tyro3	TYRO3 protein t	Chr2: 119.797733	7.9584824	15.4	Chr2: 179.08869	0.5507197	67	7.2215E-07	0.44682	-0.2269819	0.264809
10540141	232236	9523	Ccdc174	coiled-coil doma	Chr6: 91.878059	8.4726118	11.6	Chr11: 36.82013	-0.5506478	67	7.2522E-07	0	0	1
10450367	15511	74294	Hspa1b	heat shock 70kD	Chr17: 34.957079	9.0274588	10.5	Chr16: 93.85526	0.5503601	67	7.3764E-07	0.43892	-0.132589	0.518484
10600247			Affy_10600247	Affymetrix Mous	ChrX: 73.752664	6.5344706	13.8	Chr7: 38.109850	0.5501549	67	7.4662E-07	0	0	1
10342458			Affy_10342458	Affymetrix Mous	ChrUn: 1.000000	7.1941059	10.9	Chr10: 55.51515	-0.5501488	67	7.4689E-07	0	0	1
10342099	15441	7774	Hp1bp3	heterochromatin	Chr4: 137.778708	8.5244235	10.8	Chr1: 45.598788	-0.549494	67	7.7623E-07	0	0.0060461	0.976615
10560035	232875	123431	Zscan18	zinc finger and S	Chr7: 12.768090	7.3162353	10.5	Chr6: 115.87884	0.5494241	67	7.7943E-07	0	-0.0043753	0.983076
10338809			Affy_10338809	Affymetrix Mous	ChrUn: 1.000000	6.1043176	9.7	Chr16: 27.49811	-0.5490603	67	7.9626E-07	0	0	1
10344245			Affy_10344245	Affymetrix Mous	ChrUn: 1.000000	7.8897059	15.5	Chr15: 32.69618	-0.5489892	67	7.996E-07	0	0	1
10386033	245827	1110	Fat2	FAT tumor supp	Chr11: 55.250610	7.2543412	11.8	Chr7: 37.923912	0.5486915	67	8.1368E-07	0.43593	-0.2178173	0.2851
10413874	239017	56801	Ogdhl	oxoglutarate deh	Chr14: 32.325795	6.8458353	10.1	Chr15: 77.78915	0.5485797	67	8.1903E-07	0	0.030868	0.881008
10399642	100043371	85963	LOC100043371		Chr12: 22.146998	7.7523529	18.5	Chr12: 25.24270	0.5482489	67	8.3505E-07	0	0	1
10463551	12686	69006	Elovl3	elongation of ve	Chr19: 46.131899	6.1354118	11.2	Chr1: 92.373273	0.547759	67	8.5931E-07	0.52431	0.7060773	5.57E-05
10338581			Affy_10338581	Affymetrix Mous	ChrUn: 1.000000	7.1806353	9.3	Chr7: 68.323956	-0.5476024	67	8.672E-07	0	0	1
10343305			Affy_10343305	Affymetrix Mous	ChrUn: 1.000000	5.9869176	8.4	Chr13: 103.1519	-0.5475565	67	8.6953E-07	0	0	1
10528360	80979	69472	Slc26a5	solute carrier fa	Chr5: 21.791461	6.1392235	10.4	Chr7: 68.323956	0.5473549	67	8.7982E-07	0.45865	0.0381612	0.853165
10341296			Affy_10341296	Affymetrix Mous	ChrUn: 1.000000	7.0572353	8.8	Chr7: 24.937915	-0.5469424	67	9.0122E-07	0	0	1
10341392			Affy_10341392	Affymetrix Mous	ChrUn: 1.000000	6.3336588	14.8	Chr7: 134.83441	-0.5467736	67	9.1012E-07	0	0	1
10391075	68239	107091	Krt42	keratin 42	Chr11: 100.262904	7.5190706	11.2	Chr7: 67.469060	0.5465664	67	9.2116E-07	0.35681	-0.0982703	0.632937
10563527	72088	77476	Ush1c	Usher syndrome	Chr7: 46.195350	7.1609882	11.4	Chr7: 36.760233	0.5463152	67	9.347E-07	0.22379	-0.1170098	0.569184
10340171			Affy_10340171	Affymetrix Mous	ChrUn: 1.000000	7.8987412	10.5	Chr8: 118.38069	-0.5461078	67	9.4603E-07	0	0	1
10339368			Affy_10339368	Affymetrix Mous	ChrUn: 1.000000	7.3223412	12.6	Chr14: 63.56186	-0.5459659	67	9.5385E-07	0	0	1
10470175	227627	105714	Lcn13	lipocalin 13	Chr2: 25.700038	5.692247	12.2	Chr7: 68.323956	0.545834	67	9.6118E-07	0.41038	0.4761899	0.013927
10344950	675046		LOC675046	predicted gene	Chr1: 16.053335	8.4968353	10.6	Chr7: 137.03176	0.5455693	67	9.7604E-07	0	0	1
10549396	622129		Gm6288	predicted gene 6	Chr6: 147.438362	6.2374706	11.1	Chr8: 121.00000	0.545546	67	9.7736E-07	0	0	1
10415952			Affy_10415952	Affymetrix Mous	Chr14: 64.677223	7.115447	11.7	Chr14: 72.30028	-0.5454614	67	9.8216E-07	0	0	1
10605018	574438	41832	Xlr5a	X-linked lympho	ChrX: 73.107635	6.9521294	8.8	Chr1: 18.168753	0.5448338	67	1.0185E-06	0	0.2255129	0.267997
10580829	333329		Cngb1	cyclic nucleotide	Chr8: 95.239048	7.101753	12.1	Chr19: 14.37771	0.5443781	67	1.0456E-06	0.31788	0.181354	0.375276
10401320	11498	86950	Adam4	a disintegrin and	Chr12: 81.419549	7.5864	13.2	Chr8: 121.00000	-0.5443711	67	1.046E-06	0.43723	-0.1152745	0.574965
10338624			Affy_10338624	Affymetrix Mous	ChrUn: 1.000000	7.6079529	12.9	Chr5: 133.06278	-0.5442304	67	1.0546E-06	0	0	1
10578794			Affy_10578794	Affymetrix Mous	Chr8: 57.962379	6.4067176	7.5	Chr2: 176.00000	0.544133	67	1.0605E-06	0	0	1
10577734	353188	17021	Adam32	a disintegrin and	Chr8: 24.836144	5.7745647	9.9	Chr1: 184.32235	0.5432083	67	1.1184E-06	0.2881	0.1739597	0.395377
10342113			Affy_10342113	Affymetrix Mous	ChrUn: 1.000000	5.7232118	11.2	Chr11: 111.5000	-0.5430062	67	1.1315E-06	0	0	1
10576216	270106	100958	Rpl13	ribosomal protei	Chr8: 123.103038	8.2055765	11.5	Chr19: 58.56520	-0.5426449	67	1.1552E-06	0.24137	-0.152054	0.458376
10604899	627927	123427	Gm6812	predicted gene 6	ChrX: 68.892375	6.2164235	7.7	Chr7: 55.591032	0.5419011	67	1.2054E-06	0	0	1
10339222			Affy_10339222	Affymetrix Mous	ChrUn: 1.000000	6.7162353	9.1	Chr14: 55.62268	-0.5418418	67	1.2095E-06	0	0	1
10543358	384356	79607	Gm5301	predicted pseud	Chr6: 23.157998	6.6338941	13.8	Chr5: 21.026344	0.5417267	67	1.2175E-06	0	0	1
10440433	19146	2075	Tmprss15	transmembrane	Chr16: 78.953008	5.7392118	8.9	Chr7: 95.997605	0.5416709	67	1.2214E-06	0.56554	0	1
10339187			Affy_10339187	Affymetrix Mous	ChrUn: 1.000000	6.8267412	11.1	Chr15: 68.83070	-0.5415666	67	1.2287E-06	0	0	1
10490602	13628	121568	Eef1a2	eukaryotic trans	Chr2: 181.147690	8.0942353	15.5	Chr7: 135.31453	0.5414379	67	1.2377E-06	0.63389	0.0010847	0.995804
10388784	268449	110453	Rpl23a	ribosomal protei	Chr11: 78.183056	8.3218941	8.6	Chr8: 118.38069	-0.5408063	67	1.2831E-06	0.18385	-0.1721787	0.400307
10338258			Affy_10338258	Affymetrix Mous	ChrUn: 1.000000	9.1387882	8.7	Chr15: 32.69618	-0.5402384	67	1.3252E-06	0	0	1
10416023	71145	12556	Scara5	scavenger recep	Chr14: 65.666427	7.7966	10.4	Chr11: 20.80248	0.5401946	67	1.3285E-06	0.50672	0.021899	0.915436
10516765	230779	27797	Serinc2	serine incorpora	Chr4: 130.253497	7.9971529	16	Chr7: 67.469060	0.5396383	67	1.3711E-06	0	-0.0939731	0.647946
10499316	214191	82282	Ttc24	tetratricopeptide	Chr3: 88.069410	7.0350706	10.2	Chr7: 134.83441	0.5392382	67	1.4025E-06	0	-0.0303185	0.883112
10576482	68865	41498	Arv1	ARV1 homolog (	Chr8: 124.722139	8.3018588	8	Chr2: 176.00000	-0.538999	67	1.4216E-06	0.45527	-0.0321833	0.875976
10375732	76653	67734	Cby3	chibby homolog	Chr11: 50.357761	8.8977412	8.1	Chr2: 179.31687	0.5389981	67	1.4217E-06	0	0	1
10381311	69847	13020	Wnk4	WNK lysine defi	Chr11: 101.260611	7.4493412	9.2	Chr2: 179.31687	0.5387317	67	1.4433E-06	0.31146	-0.1410948	0.491759
10342787			Affy_10342787	Affymetrix Mous	ChrUn: 1.000000	8.6669411	16.6	Chr7: 67.469060	0.5386732	67	1.448E-06	0	0	1
10598567	83457	23725	Fthl17	ferritin, heavy pc	ChrX: 9.043727	6.9554706	7.8	Chr10: 57.75246	0.5386048	67	1.4536E-06	0.36989	-0.1760746	0.389567
10589625	272643		Prss43	protease, serine	Chr9: 110.826690	7.1013765	12.8	Chr10: 57.75246	0.5384331	67	1.4678E-06	0.28411	0	1
10458138	78656	41790	Brd8	bromodomain co	Chr18: 34.598615	9.8503883	12.7	Chr11: 108.7137	-0.5383497	67	1.4747E-06	0.33479	-0.2876996	0.154106
10339055			Affy_10339055	Affymetrix Mous	ChrUn: 1.000000	8.3329647	7.5	Chr17: 9.373070	-0.5383427	67	1.4753E-06	0	0	1
10367493	258069	105326	Olfr787	olfactory receptc	Chr10: 129.409731	5.9946118	16	Chr11: 94.75882	0.53831	67	1.478E-06	0	0.2323346	0.2534
10338470			Affy_10338470	Affymetrix Mous	ChrUn: 1.000000	7.3089294	8.4	Chr16: 31.59803	-0.5381693	67	1.4898E-06	0	0	1
10402514	21432	7565	Tcl1	T-cell lymphoma	Chr12: 105.216753	5.9166588	11.2	Chr5: 24.321400	0.5380569	67	1.4993E-06	0.54968	0.1074688	0.601286
10341820			Affy_10341820	Affymetrix Mous	ChrUn: 1.000000	6.5030941	7.5	Chr7: 37.923912	-0.5379786	67	1.5059E-06	0	0	1
10343999			Affy_10343999	Affymetrix Mous	ChrUn: 1.000000	7.1366588	6.9	Chr8: 118.38069	-0.5378761	67	1.5146E-06	0	0	1
10342600			Affy_10342600	Affymetrix Mous	ChrUn: 1.000000	5.7384	9	Chr19: 10.67054	-0.5378582	67	1.5161E-06	0	0	1
10358283	170788	8092	Crb1	crumbs homolog	Chr1: 139.198343	6.4575176	7.4	Chr19: 52.94052	0.5376944	67	1.5302E-06	0.49677	0.2776607	0.169644
10451675			Affy_10451675	Affymetrix Mous	Chr17: 49.069999	7.5638941	7.5	Chr1: 173.67918	0.5376812	67	1.5313E-06	0	0	1
10442151	171231		Vmn1r230	vomeronasal 1 r	Chr17: 20.846551	5.0944824	12	Chr1: 187.59825	0.5375266	67	1.5447E-06	0	0	1
10493912	381457	9416	Crnn	cornulin	Chr3: 93.146822	6.8648	11.3	Chr7: 95.983946	0.5374185	67	1.5541E-06	0.25028	-0.039115	0.849535
10339120			Affy_10339120	Affymetrix Mous	ChrUn: 1.000000	8.7969882	14.5	Chr7: 67.469060	-0.5373766	67	1.5578E-06	0	0	1
10557357	233865	45841	Kiaa0556	KIAA0556 retinit	Chr7: 125.760301	8.2981177	13.7	Chr7: 68.323956	-0.5362627	67	1.6582E-06	0	0.0627057	0.76089
10465089	225861	62637	Snx32	sorting nexin 32	Chr19: 5.495274	8.0016824	16.7	Chr8: 121.00000	-0.5356896	67	1.7122E-06	0	0.1040743	0.612888
10398695	17169	55653	Mark3	MAP/microtubule	Chr12: 111.574536	10.006576	11.8	Chr8: 118.38069	-0.5356029	67	1.7205E-06	0.47081	-0.142497	0.487421
10459799	75632		1700003O11Rik	RIKEN cDNA 17	Chr18: 76.014211	6.9153176	12	Chr15: 41.49812	0.5355714	67	1.7235E-06	0.23264	0	1
10360972	16526	7794	Kcnk2	potassium chan	Chr1: 189.207930	7.4289059	8.7	Chr7: 67.469060	0.5355651	67	1.7242E-06	0.48358	-0.2212824	0.277316
10339040			Affy_10339040	Affymetrix Mous	ChrUn: 1.000000	8.0288353	11.2	Chr8: 118.38069	-0.5351284	67	1.7667E-06	0	0	1
10394926			Affy_10394926	predicted gene	Chr12: 23.255151	7.7250824	10.5	Chr10: 121.6390	0.5350247	67	1.7769E-06	0	0	1
10470314			Affy_10470314	Affymetrix Mous	Chr2: 26.911261	8.5587411	15.5	Chr15: 77.78915	-0.5349453	67	1.7848E-06	0	0	1
10340974			Affy_10340974	Affymetrix Mous	ChrUn: 1.000000	6.9062	7.6	Chr14: 64.66684	-0.5348924	67	1.7901E-06	0	0	1
10338690			Affy_10338690	Affymetrix Mous	ChrUn: 1.000000	7.3214	10.4	Chr13: 54.84281	-0.5347756	67	1.8017E-06	0	0	1
10608573			Affy_10608573	Affymetrix Mous	ChrY: 15.362779	5.8204588	8.6	Chr1: 192.14155	0.5345965	67	1.8198E-06	0	0	1
10608576			Affy_10608576	Affymetrix Mous	ChrY: 15.486202	5.8204588	8.6	Chr1: 192.14155	0.5345965	67	1.8198E-06	0	0	1
10340133			Affy_10340133	Affymetrix Mous	ChrUn: 1.000000	6.4192353	9	Chr4: 29.260447	-0.5343604	67	1.8438E-06	0	0	1
10342178			Affy_10342178	Affymetrix Mous	ChrUn: 1.000000	8.2898	11.1	Chr8: 118.38069	-0.534328	67	1.8472E-06	0	0	1
10401063	109929	5070	Zbtb25	zinc finger and B	Chr12: 76.348944	8.6343529	16.3	Chr12: 75.99634	-0.5341762	67	1.8628E-06	0.29687	-0.1163915	0.571241
10602332	18422	40759	Ott	ovary testis tran	ChrX: 149.097952	5.6954588	9.5	Chr12: 27.82284	0.5340604	67	1.8748E-06	0.30742	-0.0189157	0.926924
10602341	18422	40759	Ott	ovary testis tran	ChrX: 149.447617	5.6954588	9.5	Chr12: 27.82284	0.5340604	67	1.8748E-06	0.30742	-0.0189157	0.926924
10607718	74264		1700045I19Rik	RIKEN cDNA 17	ChrX: 163.760140	6.3538941	9.9	Chr11: 77.01055	0.5338724	67	1.8945E-06	0	-0.047929	0.816146
10585169	13489	22561	Drd2	dopamine recep	Chr9: 49.340627	6.9161177	18.1	Chr7: 67.469060	0.5338398	67	1.8979E-06	0.35518	0.2113637	0.299963
10423024	75568	16959	Capsl	calcyphosine-lik	Chr15: 9.436028	6.076553	12.8	Chr10: 19.62909	0.5333062	67	1.9549E-06	0	-0.1684784	0.410662
10339796			Affy_10339796	Affymetrix Mous	ChrUn: 1.000000	8.0296118	11	Chr8: 121.00000	-0.533141	67	1.9728E-06	0	0	1
10585010	11808	47927	Apoa4	apolipoprotein A	Chr9: 46.240844	7.7283411	8.5	Chr15: 41.49812	0.5331014	67	1.9772E-06	0.56322	0.5332679	0.005028
10344229			Affy_10344229	Affymetrix Mous	ChrUn: 1.000000	8.2723883	10.1	Chr8: 117.54501	-0.5330894	67	1.9785E-06	0	0	1

10502042	71481	11849	Alpk1	alpha-kinase 1	Chr3: 127.670932	8.1788824	10.5	Chr7: 68.323956	-0.5328232	67	2.0078E-06	0	0.1012749	0.622525
10398693	217869	49610	Eif5	eukaryotic trans	Chr12: 111.540941	8.1442001	17.9	Chr12: 111.1417	-0.5327231	67	2.019E-06	0.44955	0.1875345	0.358939
10544702	384356	79607	Gm5301	predicted pseud	Chr6: 50.619822	6.5590235	13.6	Chr5: 21.026344	0.5322879	67	2.0681E-06	0	0	1
10339392			Affy_10339392	Affymetrix Mous	ChrUn: 1.000000	7.1879647	11	Chr7: 67.469060	-0.5321952	67	2.0787E-06	0	0	1
10351035	14455		Gas5	growth arrest sp	Chr1: 161.035394	9.7267412	9.7	Chr8: 118.38069	-0.5319495	67	2.107E-06	0.58534	0.0935145	0.649556
10554819	109264	100773	Me3	malic enzyme 3,	Chr7: 89.632722	6.9250706	23	Chr15: 38.98654	0.531854	67	2.1181E-06	0	-0.1446618	0.480762
10344109			Affy_10344109	Affymetrix Mous	ChrUn: 1.000000	7.1178	10.1	Chr11: 108.7137	-0.5316494	67	2.1421E-06	0	0	1
10341879			Affy_10341879	Affymetrix Mous	ChrUn: 1.000000	8.8751059	10.6	Chr7: 71.410581	-0.5314784	67	2.1624E-06	0	0	1
10501302	17306	7421	Sypl2	synaptophysin-li	Chr3: 108.211472	7.5579059	21.9	Chr7: 68.215797	0.5313963	67	2.1721E-06	0.38237	-0.1925966	0.345875
10537375	320538	45564	Ubn2	ubinuclein 2	Chr6: 38.433950	9.5421295	10.5	Chr8: 95.747331	-0.5309691	67	2.2237E-06	0	0	1
10354203			Affy_10354203	Affymetrix Mous	Chr1: 39.573746	7.3979294	8.2	Chr15: 45.27741	-0.5309607	67	2.2247E-06	0	0	1
10360248	27222	113769	Atp1a4	ATPase, Na+/K+	Chr1: 172.223798	6.9154941	7.8	Chr10: 55.10148	0.5308727	67	2.2355E-06	0.42789	-0.0993578	0.62916
10499132	23937	7824	Mab21l2	mab-21-like 2 (C	Chr3: 86.545581	7.3692941	12	Chr7: 68.215797	0.5305123	67	2.2802E-06	0.40981	0	1
10602300	18422	40759	Ott	ovary testis tran	ChrX: 148.322204	5.7438471	10.6	Chr3: 146.63108	0.5305008	67	2.2816E-06	0.30742	-0.0189157	0.926924
10338154			Affy_10338154	Affymetrix Mous	ChrUn: 1.000000	7.7498471	20.5	Chr10: 57.75246	-0.5301585	67	2.3248E-06	0	0	1
10430245			Affy_10430245	Affymetrix Mous	Chr15: 77.840657	8.3911294	13.4	Chr7: 71.410581	-0.5300423	67	2.3396E-06	0	0	1
10527565	18609	175	Pdx1	pancreatic and d	Chr5: 147.270126	7.2838588	12.9	Chr7: 73.746984	0.5298954	67	2.3585E-06	0.38718	0.0062289	0.975908
10344264			Affy_10344264	Affymetrix Mous	ChrUn: 1.000000	7.5460589	11.3	Chr14: 55.62268	-0.529783	67	2.373E-06	0	0	1
10604106	194854	77971	Gm9	predicted gene 9	ChrX: 37.208502	6.5935882	8.1	Chr5: 29.537495	0.5296772	67	2.3868E-06	0	-0.2374835	0.242733
10338852			Affy_10338852	Affymetrix Mous	ChrUn: 1.000000	9.4094706	10.6	Chr7: 68.323956	-0.5296378	67	2.3919E-06	0	0	1
10473553	258111	74237	Olfr1129	olfactory recepto	Chr2: 87.575086	5.4649411	16.5	Chr19: 53.38588	0.5295195	67	2.4074E-06	0	0	1
10531583	75500		1700010H22Rik	RIKEN cDNA 17	Chr5: 98.553629	6.6047882	11	Chr5: 110.38594	0.5294415	67	2.4177E-06	0	-0.0894228	0.663986
10600390	14567	37487	Gdi1	guanosine diphc	ChrX: 74.305012	11.373	8.8	Chr12: 25.48096	-0.5290037	67	2.4761E-06	0.44152	0.0281299	0.891499
10552540	317652	77571	Klk15	kallikrein related	Chr7: 43.933771	7.1227294	14.7	Chr7: 73.746984	0.5289932	67	2.4775E-06	0	0.0206663	0.920181
10399632	100038492		F630048H11Rik	RIKEN cDNA F6	Chr12: 21.401394	6.8234	14.6	Chr12: 16.82846	-0.5288801	67	2.4929E-06	0	0	1
10448355	73016	65132	Kremen2	kringle containin	Chr17: 23.741197	8.1547059	10.3	Chr7: 67.469060	0.5288586	67	2.4958E-06	0.39595	-0.0852419	0.678853
10536407	75725	8775	Phf14	PHD finger prote	Chr6: 11.925881	9.6160824	8.5	Chr19: 8.707699	-0.528834	67	2.4991E-06	0.47556	-0.3427108	0.086549
10562856	71960	23480	Myh14	myosin, heavy p	Chr7: 44.605819	7.8920941	9.3	Chr6: 25.228330	0.5286775	67	2.5205E-06	0.36111	-0.1555105	0.4481
10575630	170571	24912	Cntnap4	contactin associ	Chr8: 112.570043	7.3792588	10.9	Chr7: 83.629949	0.5286036	67	2.5307E-06	0.18034	0.0320638	0.876433
10340153			Affy_10340153	Affymetrix Mous	ChrUn: 1.000000	7.7735765	12.1	Chr7: 68.323956	-0.5284412	67	2.5531E-06	0	0	1
10578281	80857	10527	Fgf20	fibroblast growth	Chr8: 40.279166	7.2443294	16	Chr7: 74.269946	0.5283226	67	2.5697E-06	0.52441	0.2495606	0.218885
10348664	387167		Mir149	microRNA 149	Chr1: 92.850378	8.1089177	12.6	Chr7: 68.323956	0.5282515	67	2.5796E-06	0.43541	0	1
10342521			Affy_10342521	Affymetrix Mous	ChrUn: 1.000000	7.6280706	10.1	Chr15: 102.3604	-0.5280631	67	2.6062E-06	0	0	1
10555751	259093	64953	Olfr572	olfactory recepto	Chr7: 102.927630	6.1839059	9.4	Chr7: 45.140566	0.5280475	67	2.6084E-06	0	0.1169248	0.569467
10603543	83457	23725	Fthl17	ferritin, heavy pc	ChrX: 8.975889	7.0711177	6.7	Chr1: 4.878037	0.527929	67	2.6252E-06	0.36989	-0.1760746	0.389567
10455289	18459	56509	Pabpc2	poly(A) binding p	Chr18: 39.773497	6.2302706	9.9	Chr13: 97.78121	0.5278522	67	2.6362E-06	0.36198	-0.0855813	0.677642
10575380	244653	52118	Hydin	hydrocephalus i	Chr8: 110.266977	6.9777059	14.8	Chr7: 68.323956	0.5277054	67	2.6573E-06	0.48361	-0.0761126	0.711718
10602307	18422	40759	Ott	ovary testis tran	ChrX: 148.663629	5.6729765	9.3	Chr12: 27.82284	0.5274599	67	2.6929E-06	0.30742	-0.0189157	0.926924
10579663	13859	31881	Eps15l1	epidermal growt	Chr8: 72.341003	9.7457295	11.4	Chr15: 102.3208	-0.5273461	67	2.7095E-06	0.30653	-0.3390244	0.090214
10341509			Affy_10341509	Affymetrix Mous	ChrUn: 1.000000	7.5641177	10.3	Chr11: 50.37382	-0.5272197	67	2.7281E-06	0	0	1
10377245	68460	110857	Dhrs7c	dehydrogenase/	Chr11: 67.798288	7.2354118	9.7	Chr1: 37.685650	0.5268809	67	2.7786E-06	0.35698	-0.0554247	0.787992
10524606	67593	87032	4930519G04Rik	hypothetical pro	Chr5: 114.853714	7.1024706	12.2	Chr7: 36.955819	0.5267211	67	2.8027E-06	0	-0.0816514	0.691715
10518313	21941	949	Tnfrsf8	tumor necrosis f	Chr4: 145.268976	7.5302	8.1	Chr10: 116.6402	0.5264745	67	2.8403E-06	0.50221	0.7379894	1.68E-05
10344191			Affy_10344191	Affymetrix Mous	ChrUn: 1.000000	6.2704471	12.8	Chr7: 68.323956	-0.5262614	67	2.8732E-06	0	0	1
10468722	14585	3855	Gfra1	glial cell line der	Chr19: 58.235612	7.6468471	11.7	Chr5: 73.828508	0.526146	67	2.8911E-06	0.35287	0.4260409	0.029993
10584582	100038567		Gm10694	predicted gene 1	Chr9: 40.821522	7.4964706	10.6	Chr9: 122.01524	0.5260811	67	2.9013E-06	0	0	1
10496001	12630	171	Cfi	complement con	Chr3: 129.836737	6.29	16.8	Chr3: 129.64501	0.5256066	67	2.9764E-06	0.43614	0.8093952	5.53E-07
10343822			Affy_10343822	Affymetrix Mous	ChrUn: 1.000000	7.7539882	10.6	Chr7: 38.109850	-0.5253641	67	3.0155E-06	0	0	1
10543360	384356	79607	Gm5301	predicted pseud	Chr6: 23.165350	6.5556235	12.6	Chr5: 21.026344	0.5252923	67	3.0272E-06	0	0	1
10339013			Affy_10339013	Affymetrix Mous	ChrUn: 1.000000	7.0315177	11.6	Chr14: 49.08928	-0.5250136	67	3.0728E-06	0	0	1
10466110	69826	11355	Ms4a10	membrane-span	Chr19: 10.962289	7.4924236	9.1	Chr7: 38.109850	0.5249501	67	3.0833E-06	0.24393	0.027301	0.894679
10342976			Affy_10342976	Affymetrix Mous	ChrUn: 1.000000	6.5837176	9.3	Chr14: 64.66684	-0.5249291	67	3.0868E-06	0	0	1
10514340	12578	55430	Cdkn2a	cyclin-dependen	Chr4: 89.274473	8.0217529	9	Chr19: 52.56230	0.5246317	67	3.1365E-06	0.35226	-0.0932939	0.650331
10442177	224585	117620	Zfp160	zinc finger prote	Chr17: 21.152637	5.5613529	12.8	Chr7: 59.986065	0.5244007	67	3.1756E-06	0	-0.2304029	0.25748
10501591	68161		A930005H10Rik	RIKEN cDNA A9	Chr3: 115.887822	9.0202588	12.1	Chr6: 17.630009	0.5243348	67	3.1868E-06	0	0.1326718	0.51822
10457614	11829	37507	Aqp4	aquaporin 4	Chr18: 15.392811	6.6674117	9.2	Chr5: 131.54103	0.5242953	67	3.1936E-06	0.33683	0.0369853	0.857643
10440721	170656		Krtap16-7	keratin associate	Chr16: 89.403027	5.9781294	12.5	Chr3: 19.495216	0.5241564	67	3.2174E-06	0	-0.1124992	0.584265
10478907	58220	23302	Pard6b	par-6 (partitionir	Chr2: 168.081235	8.0608	15.1	Chr7: 71.696966	0.5241031	67	3.2266E-06	0.2411	0.3002501	0.13614
10604094	434756	32512	Akap14	A kinase (PRKA	ChrX: 37.150698	6.5794941	10.6	Chr6: 24.222458	0.524076	67	3.2313E-06	0.23738	-0.1029897	0.616615
10386539	674295		LOC674295		Chr11: 60.641861	8.0453294	11.7	Chr4: 70.088532	0.5237252	67	3.2925E-06	0	0	1
10563487	20927	68048	Abcc8	ATP-binding cas	Chr7: 46.104523	7.3306706	10.2	Chr15: 68.83070	0.5235883	67	3.3167E-06	0.39308	-0.0823666	0.689146
10587051	546144		Wdr72	WD repeat doma	Chr9: 74.110356	6.4706823	10.7	Chr6: 11.365437	0.5234744	67	3.3369E-06	0	-0.0719636	0.726826
10341844			Affy_10341844	Affymetrix Mous	ChrUn: 1.000000	7.2536	7.5	Chr8: 117.54501	-0.523438	67	3.3434E-06	0	0	1
10410741	78771	75211	Mctp1	multiple C2 dom	Chr13: 76.384318	9.2336824	16.2	Chr7: 36.955819	0.5234198	67	3.3467E-06	0	-0.2469471	0.223907
10340733			Affy_10340733	Affymetrix Mous	ChrUn: 1.000000	8.0906	12.3	Chr5: 131.54103	-0.5232478	67	3.3776E-06	0	0	1
10452768			Affy_10452768	Affymetrix Mous	Chr17: 72.699509	7.2655412	9	Chr5: 143.51344	0.5232104	67	3.3843E-06	0	0	1
10338538			Affy_10338538	Affymetrix Mous	ChrUn: 1.000000	7.1623177	14	Chr15: 41.49812	-0.5228308	67	3.4535E-06	0	0	1
10338545			Affy_10338545	Affymetrix Mous	ChrUn: 1.000000	7.9373412	9.2	Chr7: 135.31453	-0.5227695	67	3.4648E-06	0	0	1
10427877	100038530		ENSMUSG0000	Affymetrix Mous	Chr15: 13.173093	8.3713176	11.6	Chr7: 67.469060	0.5227089	67	3.476E-06	0	0	1
10585410	244885	18355	Sh2d7	SH2 domain cor	Chr9: 54.538984	6.6674471	8.7	Chr7: 39.894396	0.5227005	67	3.4776E-06	0	0	1
10431124	75772	13376	Pnpla5	patatin-like phos	Chr15: 84.112356	6.5682824	17.4	Chr7: 70.848220	0.522602	67	3.4959E-06	0	-0.0760291	0.712021
10338468			Affy_10338468	Affymetrix Mous	ChrUn: 1.000000	8.3277764	9.5	Chr1: 38.225635	-0.5225928	67	3.4976E-06	0	0	1
10404020	252906	110880	Vmn1r189	vomeronasal 1 r	Chr13: 23.217373	6.3454235	7.1	Chr4: 19.581204	0.5225156	67	3.512E-06	0	0	1
10598565	83457	23725	Fthl17	ferritin, heavy pc	ChrX: 9.033485	6.7958353	9.5	Chr8: 118.38069	0.5223311	67	3.5467E-06	0.36989	-0.1760746	0.389567
10524338	12960	1423	Crybb1	crystallin, beta B	Chr5: 112.255821	8.3106353	10.8	Chr6: 24.222458	0.5214233	67	3.7218E-06	0.45645	0.1949432	0.339916
10341264			Affy_10341264	Affymetrix Mous	ChrUn: 1.000000	8.1416	13.5	Chr7: 68.323956	-0.5213128	67	3.7437E-06	0	0	1
10474073			Affy_10474073	Affymetrix Mous	Chr2: 93.191051	7.758247	14.3	Chr8: 121.00000	-0.5211043	67	3.7853E-06	0	0	1
10549733	269855	77555	Ssc5d	scavenger recep	Chr7: 4.925844	7.6859176	9.2	Chr1: 91.097803	0.5209157	67	3.8233E-06	0.39334	0	1
10581959			Affy_10581959	Affymetrix Mous	Chr8: 113.528438	5.4913176	12.5	Chr7: 59.986065	0.5207625	67	3.8544E-06	0	0	1
10369307	22295	11142	Cdh23	cadherin 23 (oto	Chr10: 60.303274	7.1585882	11.7	Chr7: 67.469060	0.5206385	67	3.8798E-06	0.31014	-0.116129	0.572115
10341044			Affy_10341044	Affymetrix Mous	ChrUn: 1.000000	5.0740824	9.9	Chr1: 94.523241	-0.5205912	67	3.8895E-06	0	0	1
10344394			Affy_10344394	Affymetrix Mous	ChrUn: 1.000000	5.9742235	13.7	Chr17: 31.61504	-0.5205456	67	3.8989E-06	0	0	1
10604610	723910		Mir351	microRNA 351	ChrX: 53.053255	7.7578824	7.3	Chr4: 29.260447	0.5205068	67	3.9069E-06	0.40122	0	1
10364222	14317	4848	Ftcd	formiminotransfe	Chr10: 76.575667	8.1706941	9.9	Chr7: 37.923912	0.5204341	67	3.9219E-06	0.52112	0.7641561	5.53E-06
10521596	433882		Gm16223	predicted gene 1	Chr5: 42.067960	7.0655647	10.2	Chr1: 40.874692	0.5203269	67	3.9442E-06	0	0	1
10340016			Affy_10340016	Affymetrix Mous	ChrUn: 1.000000	9.3331529	10.1	Chr8: 118.38069	-0.5202219	67	3.9661E-06	0	0	1
10341396			Affy_10341396	Affymetrix Mous	ChrUn: 1.000000	8.9509176	8.2	Chr15: 41.49812	-0.5201546	67	3.9802E-06	0	0	1
10344021			Affy_10344021	Affymetrix Mous	ChrUn: 1.000000	5.7337529	15.3	Chr8: 121.00000	-0.5199663	67	4.0199E-06	0	0	1
10601150			Affy_10601150	Affymetrix Mous	ChrX: 101.296343	7.8916588	11.1	Chr8: 118.38069	-0.5198553	67	4.0435E-06	0	0	1
10344581			Affy_10344581	Affymetrix Mous	ChrUn: 1.000000	7.9891412	12	Chr7: 68.323956	-0.5197567	67	4.0646E-06	0	0	1
10343010			Affy_10343010	Affymetrix Mous	ChrUn: 1.000000	8.0152118	16.9	Chr15: 38.65504	-0.5197368	67	4.0689E-06	0	0	1
10459999	20689	18142	Sall3	sal-like 3 (Droso	Chr18: 80.966359	7.7258706	16.3	Chr7: 68.323956	0.519714	67	4.0738E-06	0.46253	0.0052433	0.979719

10339136			Affy_10339136	Affymetrix Mous	ChrUn: 1.000000	7.0545294	11.8	Chr15: 62.23837	-0.5196436	67	4.0889E-06	0	0	1
10341382			Affy_10341382	Affymetrix Mous	ChrUn: 1.000000	7.1368353	9.3	Chr14: 63.56186	-0.5195548	67	4.1081E-06	0	0	1
10364792	216166	28072	Plk5	polo-like kinase	Chr10: 80.356459	7.4512235	8	Chr8: 121.00000	0.5195044	67	4.119E-06	0.38326	0	1
10604653	333473	53313	Zfp36l3	zinc finger prote	ChrX: 53.774048	6.6566941	10.6	Chr19: 52.56230	0.5194417	67	4.1326E-06	0.27285	0.2836155	0.1603
10339571			Affy_10339571	Affymetrix Mous	ChrUn: 1.000000	5.2102235	15.5	Chr12: 16.82846	-0.5193087	67	4.1617E-06	0	0	1
10543591	12057	1291	Opn1sw	opsin 1 (cone pi	Chr6: 29.376657	6.5768471	10.1	Chr13: 93.09386	0.5189977	67	4.2303E-06	0.34611	0.3207867	0.110086
10338090			Affy_10338090	Affymetrix Mous	ChrUn: 1.000000	8.1773411	10.3	Chr15: 41.49812	-0.5188931	67	4.2536E-06	0	0	1
10339373			Affy_10339373	Affymetrix Mous	ChrUn: 1.000000	8.1912942	10.7	Chr17: 33.11021	-0.5188611	67	4.2607E-06	0	0	1
10553450	338352	4486	Nell1	NEL-like 1 (chic	Chr7: 49.975350	6.3642118	12.4	Chr7: 56.52415	0.518675	67	4.3026E-06	0.51429	0.0412179	0.841544
10338431			Affy_10338431	Affymetrix Mous	ChrUn: 1.000000	7.4791765	12.3	Chr14: 64.66684	-0.5185593	67	4.3288E-06	0	0	1
10419450	258657	17334	Olfr733	olfactory recepto	Chr14: 50.298337	5.4203529	7.3	Chr2: 181.00898	0.5185544	67	4.3299E-06	0	-0.3149462	0.117086
10361270	17221	7832	Cd46	CD46 antigen, c	Chr1: 195.041900	7.3390353	8.2	Chr16: 96.34892	-0.518436	67	4.3569E-06	0.58589	-0.0506344	0.805957
10576175	12555	3622	Cdh15	cadherin 15	Chr8: 122.847966	7.3966941	11.1	Chr19: 10.70841	0.5183798	67	4.3698E-06	0.44194	-0.100051	0.626758
10514475	77963	9289	Hook1	hook homolog 1	Chr4: 95.959719	7.2743059	11	Chr19: 56.60763	0.5179545	67	4.4682E-06	0.4423	0.0218327	0.915691
10478381	69517		2310001K24Rik	RIKEN cDNA 23	Chr2: 163.472565	6.6005294	9.6	Chr2: 83.41322	0.5175839	67	4.5557E-06	0	-0.1087557	0.596911
10556037	259035	72055	Olfr714	olfactory recepto	Chr7: 107.073830	6.4313882	9.8	Chr7: 67.46906	0.5175188	67	4.5712E-06	0.12871	0.0929911	0.651395
10433618	72555	109462	Shisa9	shisa homolog 9	Chr16: 11.984458	9.0816941	12.8	Chr6: 24.22245	0.5171324	67	4.6645E-06	0.1868	0	1
10515824	258259	115537	Olfr1338	olfactory recepto	Chr4: 118.753595	5.6396588	11.9	Chr1: 98.06207	0.5170795	67	4.6774E-06	0	0.0496852	0.809528
10431080	77627	11259	Efcab6	EF-hand calciun	Chr15: 83.866710	6.7312	9.6	Chr4: 46.27611	0.5170094	67	4.6945E-06	0	0	1
10557076	246190	71803	Otoa	otoancorin	Chr7: 121.083438	6.8686588	11.7	Chr15: 102.3604	0.5167631	67	4.7552E-06	0.25217	-0.1229851	0.549479
10460560	225865	14207	Catsper1	cation channel,	Chr19: 5.335741	6.2075412	7.9	Chr10: 57.75246	0.5167473	67	4.7591E-06	0.46096	-0.0738767	0.719847
10367118			Affy_10367118	Affymetrix Mous	Chr10: 128.084144	7.2859883	14.7	Chr7: 68.32395	-0.5167375	67	4.7616E-06	0	0	1
10343074			Affy_10343074	Affymetrix Mous	ChrUn: 1.000000	7.4086706	10.4	Chr7: 67.46906	-0.5164852	67	4.8246E-06	0	0	1
10454398	225289		AW554918	expressed sequ	Chr18: 25.169020	8.6124588	9.3	Chr7: 24.93791	-0.516164	67	4.9059E-06	0	0.048119	0.815429
10433614	791359		Gm9961	predicted gene 9	Chr16: 11.901364	7.4678	9.9	Chr7: 36.95581	0.5159894	67	4.9507E-06	0	0	1
10480445	76857	78016	Spopl	speckle-type PO	Chr2: 23.510054	9.5707059	9.3	Chr2: 70.91644	-0.515848	67	4.9872E-06	0.29004	0	1
10371446	270757	18383	Bpil2	bactericidal/perr	Chr10: 85.959703	6.7593294	8.9	Chr15: 76.00000	0.5157919	67	5.0018E-06	0.3082	0.1028208	0.617196
10537826	258647	74165	Olfr435	olfactory recepto	Chr6: 43.201646	7.4336706	12	Chr7: 36.760233	0.5157538	67	5.0117E-06	0	0.321873	0.108818
10450900	258625		Olfr116	olfactory recepto	Chr17: 37.623668	5.7306	10.4	Chr7: 134.8344	0.5157313	67	5.0175E-06	0	-0.0126508	0.951091
10559756			Affy_10559756	Affymetrix Mous	Chr7: 5.929512	5.5738588	10.4	Chr1: 192.14155	0.5157146	67	5.0219E-06	0	0	1
10500845	100125931		A130049A11Rik	RIKEN cDNA A1	Chr3: 103.967522	6.9931294	9.4	Chr13: 99.27765	-0.515712	67	5.0226E-06	0	-0.0788043	0.701973
10472443	383710	104311	Gm1323	predicted gene 1	Chr2: 68.568839	6.4604	13.3	Chr7: 58.449542	0.5155832	67	5.0563E-06	0	0.2952158	0.143155
10340307			Affy_10340307	Affymetrix Mous	ChrUn: 1.000000	8.9743177	11.1	Chr7: 67.46906	-0.5154574	67	5.0894E-06	0	0	1
10536163			Affy_10536163	Affymetrix Mous	ChrUn: 1.000000	5.773	8.6	Chr8: 95.74733	0.5154304	67	5.0965E-06	0	0	1
10338951			Affy_10338951	Affymetrix Mous	ChrUn: 1.000000	8.7024471	13.3	Chr7: 68.32395	-0.5153339	67	5.1221E-06	0	0	1
10580955			Affy_10580955	Affymetrix Mous	Chr8: 95.756950	8.1432471	8.7	Chr8: 121.00000	-0.5152763	67	5.1374E-06	0	0	1
10473690	55935	9087	Fnbp4	formin binding p	Chr2: 90.745370	10.018235	8.3	Chr14: 64.70589	-0.5152447	67	5.1458E-06	0.309	-0.008439	0.967364
10338271			Affy_10338271	Affymetrix Mous	ChrUn: 1.000000	7.4898941	10	Chr14: 55.62268	-0.5150702	67	5.1926E-06	0	0	1
10602359	18422	40759	Ott	ovary testis tran	ChrX: 149.784473	5.6272706	10.2	Chr12: 27.82284	0.5149902	67	5.2142E-06	0.30742	-0.0189157	0.926924
10344606			Affy_10344606	Affymetrix Mous	ChrUn: 1.000000	7.7629882	12	Chr14: 72.30028	-0.5149525	67	5.2244E-06	0	0	1
10432886	16682	20523	Krt4	keratin 4	Chr15: 101.918536	6.4356118	12	Chr9: 70.26852	0.5148915	67	5.2409E-06	0.39876	-0.1046208	0.611014
10420338	66645		Pspc1	paraspeckle pro	Chr14: 56.700993	9.9217764	9.9	Chr8: 121.00000	-0.51488	67	5.244E-06	0.38806	0.095692	0.641926
10561498	101744	23924	C330005M16Rik	RIKEN cDNA C3	Chr7: 28.607634	6.7732941	13	Chr2: 179.31687	0.514802	67	5.2652E-06	0	-0.1529848	0.455597
10493500	329702	16951	Dcst2	DC-STAMP dom	Chr3: 89.365364	7.8024353	11.8	Chr7: 67.46906	0.5147425	67	5.2815E-06	0	-0.1034836	0.614917
10389283	16869	4068	Lhx1	LIM homeobox p	Chr11: 84.517977	6.9763059	9.4	Chr2: 78.10320	0.514612	67	5.3173E-06	0.34635	-0.018358	0.929073
10376402	404346	19876	Olfr179	olfactory recepto	Chr11: 58.665561	7.7253059	14.3	Chr7: 71.69696	0.514541	67	5.3368E-06	0	0	1
10478066	319317		Snhg11	small nucleolar I	Chr2: 158.375682	7.0690588	8.9	Chr2: 179.21483	0.5145314	67	5.3395E-06	0	0	1
10504199			Affy_10504199	Affymetrix Mous	Chr4: 42.668004	8.0977882	10.7	Chr7: 36.76023	0.5144829	67	5.3529E-06	0	0	1
10344135			Affy_10344135	Affymetrix Mous	ChrUn: 1.000000	5.9693059	11.1	Chr6: 88.57769	-0.5142851	67	5.4079E-06	0	0	1
10462313	20510	20881	Slc1a1	solute carrier fa	Chr19: 28.835135	6.9677765	10.1	Chr2: 179.31687	0.5142387	67	5.4209E-06	0.52712	-0.1227998	0.550085
10349913	280287	1701	Kiss1	KiSS-1 metastas	Chr1: 133.309827	7.8526471	9.1	Chr7: 67.46906	0.5140638	67	5.4701E-06	0.40026	-0.106472	0.604683
10432746	109052	20983	Krt75	keratin 75	Chr15: 101.563343	7.2989294	8.5	Chr8: 116.27656	0.5140526	67	5.4732E-06	0.39598	0.6423969	0.000402
10432154	259038	64944	Olfr283	olfactory recepto	Chr15: 98.378096	6.9043647	8.9	Chr5: 23.88801	0.5140362	67	5.4779E-06	0	-0.0951533	0.64381
10343983			Affy_10343983	Affymetrix Mous	ChrUn: 1.000000	7.6899647	7.3	Chr1: 130.86393	-0.5139171	67	5.5116E-06	0	0	1
10566686	258491	73955	Olfr490	olfactory recepto	Chr7: 108.286180	4.5846941	7.3	Chr5: 30.55363	0.513865	67	5.5265E-06	0	-0.0945696	0.645854
10409282	26564	55831	Ror2	receptor tyrosine	Chr13: 53.109317	8.1197412	10.1	Chr7: 134.8344	0.5137932	67	5.547E-06	0.43768	-0.0606954	0.768347
10485131	228366	27362	Gyltl1b	glycosyltransfera	Chr2: 92.365046	7.4240706	18.1	Chr7: 71.69696	0.5136754	67	5.5808E-06	0.25616	-0.1320445	0.520218
10344232			Affy_10344232	Affymetrix Mous	ChrUn: 1.000000	6.9206118	8.8	Chr12: 16.82846	-0.5134907	67	5.6342E-06	0	0	1
10602367	18422	40759	Ott	ovary testis tran	ChrX: 149.967165	5.6794118	10.4	Chr15: 14.39051	0.5133554	67	5.6736E-06	0.30742	-0.0189157	0.926924
10368836			Affy_10368836	Affymetrix Mous	Chr10: 41.623369	7.1872	8.3	Chr2: 176.00000	0.5130949	67	5.7502E-06	0	0	1
10338193			Affy_10338193	Affymetrix Mous	ChrUn: 1.000000	7.756	8.3	Chr14: 54.73616	-0.5130253	67	5.7708E-06	0	0	1
10381603	57265	20377	Fzd2	frizzled homolog	Chr11: 102.604452	7.7082588	11.3	Chr11: 108.7137	0.5128931	67	5.8102E-06	0.42977	-0.1025886	0.617995
10341695			Affy_10341695	Affymetrix Mous	ChrUn: 1.000000	8.8173647	15.3	Chr4: 67.18202	-0.512764	67	5.8489E-06	0	0	1
10338378			Affy_10338378	Affymetrix Mous	ChrUn: 1.000000	7.0264353	13.2	Chr13: 117.572	-0.5126992	67	5.8684E-06	0	0	1
10522303	231279	6505	Guf1	GUF1 GTPase h	Chr5: 69.556942	9.201447	11.3	Chr15: 32.69618	-0.5125547	67	5.9121E-06	0	-0.0011666	0.995487
10425317			Affy_10425317	Affymetrix Mous	Chr15: 79.692502	8.2107882	11.9	Chr8: 121.00000	-0.5125411	67	5.9162E-06	0	0	1
10559657	243822	89225	Fam71e2	family with sequ	Chr7: 4.753229	5.642	8.1	Chr2: 179.31687	0.5122676	67	5.9999E-06	0	0	1
10408367	15192	56406	Hdgfl1	hepatoma derive	Chr13: 26.768173	6.9718941	9.9	Chr5: 143.03231	0.5121744	67	6.0286E-06	0.36351	-0.0865217	0.67429
10473618	258896	81567	Olfr1206	olfactory recepto	Chr2: 88.864607	5.4826	11.8	Chr13: 99.27765	0.5120121	67	6.079E-06	0	-0.1453417	0.47868
10338113			Affy_10338113	Affymetrix Mous	ChrUn: 1.000000	6.8442353	12.5	Chr7: 135.31453	-0.5119172	67	6.1086E-06	0	0	1
10478374	228858	11426	Gdap1l1	ganglioside-indu	Chr2: 163.438478	7.4867294	11.9	Chr7: 67.46906	0.5119159	67	6.109E-06	0	0.1272167	0.535717
10582551	72185	11433	Dbndd1	dysbindin (dystr	Chr8: 123.505687	7.0533529	13.9	Chr8: 117.54501	0.5118986	67	6.1144E-06	0.24721	-0.0362469	0.860458
10368780	140741	38026	Gpr6	G protein-couple	Chr10: 41.070493	7.7501765	12	ChrX: 9.334336	0.5118507	67	6.1295E-06	0.44544	0.0275201	0.893838
10556790	434234		2610020H08Rik	RIKEN cDNA 26	Chr7: 119.794130	7.566447	11.1	Chr15: 102.3604	-0.5116973	67	6.1778E-06	0	-0.016057	0.937945
10550183	246792		Obox2	oocyte specific h	Chr7: 15.388971	5.6782118	9.7	Chr15: 25.73208	0.5115266	67	6.232E-06	0.38397	0.1577438	0.441527
10550202	246792		Obox2	oocyte specific h	Chr7: 0.257229	5.6782118	9.7	Chr15: 25.73208	0.5115266	67	6.232E-06	0.38397	0.1577438	0.441527
10582458	77087	69134	Ankrd11	ankyrin repeat d	Chr8: 122.906063	8.8686	11.2	Chr5: 24.06503	-0.5114683	67	6.2506E-06	0.46339	-0.1558096	0.447217
10342277			Affy_10342277	Affymetrix Mous	ChrUn: 1.000000	6.7687647	14	Chr8: 118.38069	-0.5114423	67	6.2589E-06	0	0	1
10604234	636756		Gm7189	predicted pseud	ChrX: 40.000782	7.8116	11.8	Chr7: 37.92391	0.5114325	67	6.2621E-06	0	0	1
10587150	208943	68947	Myo5c	myosin VC	Chr9: 75.232149	6.9374	8.8	Chr7: 74.52285	0.5113505	67	6.2884E-06	0.1963	-0.288987	0.15219
10338957			Affy_10338957	Affymetrix Mous	ChrUn: 1.000000	7.3389882	14.6	Chr10: 53.74314	-0.5111073	67	6.367E-06	0	0	1
10566628			Affy_10566628	Affymetrix Mous	Chr7: 107.199773	6.2628588	13.6	Chr7: 137.03176	0.5109104	67	6.4314E-06	0	0	1
10440690	170654	64327	Krtap16-4	keratin associat	Chr16: 88.884757	8.7272824	9.8	Chr7: 39.67759	0.5108778	67	6.4421E-06	0	0.2315978	0.254951
10545117	171183	110800	Vmn1r37	vomeronasal 1 r	Chr6: 66.636904	5.2413765	10.2	Chr19: 52.20202	0.5108556	67	6.4494E-06	0	0	1
10533781	269702	11256	Mphosph9	M-phase phosph	Chr5: 124.255020	8.6109294	11.3	Chr2: 179.27783	-0.5107722	67	6.4769E-06	0	-0.0872672	0.671636
10342285			Affy_10342285	Affymetrix Mous	ChrUn: 1.000000	5.5725765	10.2	Chr7: 56.52415	-0.510732	67	6.4902E-06	0	0	1
10607169	22067	74915	Trpc5	transient recepto	ChrX: 144.381671	6.3871647	10.8	Chr7: 56.52415	0.5106948	67	6.5025E-06	0.37322	0.4075067	0.038795
10528145	108069	651	Grm3	glutamate recep	Chr5: 9.485236	6.5507412	9	Chr12: 16.82846	0.5106795	67	6.5076E-06	0.46295	0.0964019	0.639446
10338303			Affy_10338303	Affymetrix Mous	ChrUn: 1.000000	6.7738	13.4	Chr7: 56.52415	-0.5106568	67	6.5151E-06	0	0	1
10563447	27421	55559	Abcc6	ATP-binding cas	Chr7: 45.976380	7.5935059	9.9	Chr7: 58.44954	0.5106231	67	6.5264E-06	0.7042	0.8237674	2.34E-07
10341250			Affy_10341250	Affymetrix Mous	ChrUn: 1.000000	8.1810471	10.6	Chr10: 57.75246	-0.5105961	67	6.5353E-06	0	0	1
10339172			Affy_10339172	Affymetrix Mous	ChrUn: 1.000000	7.7668353	13.8	Chr14: 72.30028	-0.5103566	67	6.6156E-06	0	0	1

10549615	232798	13612	Leng8	leukocyte recept	Chr7: 4.137056	10.125024	8.8	Chr5: 24.06503(	-0.5102838	67	6.6402E-06	0	-0.2437564	0.230141
10570663	13236	113382	Defa25	defensin, alpha,	Chr8: 21.084442	6.6986118	16.5	Chr5: 142.83459	0.5102027	67	6.6677E-06	0.36257	0	1
10508647			Affy_10508647	ncrna:snoRNA c	Chr4: 130.766328	7.9399412	11.6	Chr15: 102.3604	-0.5100237	67	6.7287E-06	0	0	1
10508649			Affy_10508649	ncrna:snoRNA c	Chr4: 130.775738	7.9399412	11.6	Chr15: 102.3604	-0.5100237	67	6.7287E-06	0	0	1
10532784	68666	41283	Svop	SV2 related prot	Chr5: 114.026910	7.0256588	13.3	Chr7: 45.140566	0.5098135	67	6.8011E-06	0.45057	0.0392939	0.848855
10341849			Affy_10341849	Affymetrix Mous	ChrUn: 1.000000	7.1851059	12	Chr8: 121.00000	-0.5097882	67	6.8098E-06	0	0	1
10342202			Affy_10342202	Affymetrix Mous	ChrUn: 1.000000	8.098	9.8	Chr8: 118.38069	-0.5096853	67	6.8455E-06	0	0	1
10344351			Affy_10344351	Affymetrix Mous	ChrUn: 1.000000	8.3101647	14.6	Chr7: 68.323956	-0.5095186	67	6.9037E-06	0	0	1
10552475	69511	44690	Klk12	kallikrein related	Chr7: 43.769209	7.5718	11	Chr9: 56.967084	0.5094858	67	6.9152E-06	0	-0.1739042	0.39553
10485767	258391	105176	Olfr1277	olfactory recepto	Chr2: 111.269427	6.5144	9.3	ChrX: 136.04800	0.5094659	67	6.9222E-06	0	0.1178648	0.566345
10608531			Affy_10608531	Affymetrix Mous	ChrY: 10.963503	5.9239765	10	Chr1: 92.711739	0.5093048	67	6.9791E-06	0	0	1
10339623			Affy_10339623	Affymetrix Mous	ChrUn: 1.000000	8.3206353	9	Chr13: 51.47910	-0.5092891	67	6.9847E-06	0	0	1
10338829			Affy_10338829	Affymetrix Mous	ChrUn: 1.000000	7.6818118	10.3	Chr6: 95.073515	-0.5092563	67	6.9963E-06	0	0	1
10405876	628709		Gm10324	predicted gene 1	Chr13: 66.121205	6.2022118	9.8	Chr5: 24.309957	0.5091338	67	7.0399E-06	0	0	1
10420366	14623	4936	Gjb6	gap junction pro	Chr14: 57.123303	6.3932588	13.1	Chr7: 68.323956	0.5090636	67	7.065E-06	0.43322	-0.2220655	0.275575
10409396	20184	9455	Uimc1	ubiquitin interac	Chr13: 55.027880	9.3683647	14.9	Chr4: 67.182024	-0.5090272	67	7.0781E-06	0.36266	0.191361	0.349037
10399739	94041	6202	Allc	allantoicase	Chr12: 28.553755	6.7055765	14.6	Chr7: 73.746984	0.5090111	67	7.0838E-06	0.44538	-0.059183	0.77397
10524004	69587	4605	Pcgf3	polycomb group	Chr5: 108.461332	9.1706235	10	Chr8: 95.747331	-0.5089834	67	7.0938E-06	0	0.1037943	0.613849
10528804	381622	69402	5031410I06Rik	RIKEN cDNA 50	Chr5: 26.053746	6.3846118	7.1	Chr15: 102.3604	0.5089795	67	7.0952E-06	0	0.0069749	0.973024
10556998	436008	62665	Gm5737	predicted gene 5	Chr7: 120.813004	7.067	12.8	Chr2: 179.21483	0.5089423	67	7.1086E-06	0	0	1
10581824	338521	56284	Fa2h	fatty acid 2-hydr	Chr8: 111.345141	7.0207176	11.8	Chr10: 111.0738	0.5089128	67	7.1193E-06	0.49388	-0.2434624	0.230721
10549976	665913	85986	Zscan4-ps2	zinc finger and S	Chr7: 11.448995	8.6959294	12.1	Chr8: 121.00000	0.5087652	67	7.1727E-06	0	0	1
10404595	76487		Ppp1r3g	protein phospha	Chr13: 35.968772	7.8767765	11.2	Chr9: 54.805289	0.5086095	67	7.2295E-06	0.4636	0.3783115	0.056694
10386531	674295		LOC674295		Chr11: 60.600927	8.1531529	8.9	Chr2: 104.42730	0.5085385	67	7.2555E-06	0	0	1
10604143	622311	86797	Gm6310	predicted pseud	ChrX: 37.676366	6.4645176	9.1	Chr5: 143.03231	0.5084892	67	7.2736E-06	0	0	1
10502684	100038607		Gm10636	predicted gene 1	Chr3: 146.368751	5.6514588	9.9	Chr1: 94.269488	0.508398	67	7.3073E-06	0	0	1
10555832	259123	64963	Olfr632	olfactory recepto	Chr7: 103.937382	7.5994823	8.7	Chr2: 179.08869	0.5082661	67	7.3562E-06	0	0.0378047	0.854522
10386537	674295		LOC674295		Chr11: 60.628582	8.1495647	9.8	Chr8: 121.00000	0.508262	67	7.3577E-06	0	0	1
10419356	18424	11026	Otx2	orthodenticle ho	Chr14: 48.657679	6.0292	9.3	Chr15: 96.17149	0.5081525	67	7.3986E-06	0.34046	0.1934684	0.343654
10549377	73344	53485	1700034J05Rik	RIKEN cDNA 17	Chr6: 146.950329	6.7296235	10.6	Chr6: 115.85813	0.5080631	67	7.4321E-06	0	0.007829	0.969722
10563657			Affy_10563657	Affymetrix Mous	Chr7: 46.927836	7.3887647	15.4	Chr7: 135.31453	-0.5079542	67	7.4731E-06	0	0	1
10342819			Affy_10342819	Affymetrix Mous	ChrUn: 1.000000	6.1434118	11.1	Chr4: 153.93396	-0.5078771	67	7.5022E-06	0	0	1
10457382	225152	17692	Gjd4	gap junction pro	Chr18: 9.278607	6.5475294	14.5	Chr2: 180.37211	0.5077904	67	7.5351E-06	0.26145	0	1
10460055			Affy_10460055	Affymetrix Mous	Chr18: 83.355203	7.0215294	12.3	Chr7: 37.923912	0.5077794	67	7.5393E-06	0	0	1
10580137			mir-181c	Affymetrix Mous	Chr8: 84.178863	8.4120353	9	Chr2: 179.21483	0.5075859	67	7.6133E-06	0	0	1
10603533	278174	85956	Ssxb3	synovial sarcom	ChrX: 8.583407	5.1333529	9.3	Chr19: 52.94052	0.5074558	67	7.6634E-06	0	0.2290745	0.26031
10341468			Affy_10341468	Affymetrix Mous	ChrUn: 1.000000	6.3693412	15.1	Chr7: 67.469060	-0.5073599	67	7.7006E-06	0	0	1
10451761	72238	8834	Tbc1d5	TBC1 domain fa	Chr17: 50.916904	4.9620235	10.3	Chr4: 140.84469	-0.5073424	67	7.7074E-06	0	0.0988578	0.630896
10428217			Affy_10428217	Affymetrix Mous	Chr15: 37.181348	6.7964118	15	Chr5: 24.311463	0.5072615	67	7.7388E-06	0	0	1
10475879	241634	78093	Gm355	predicted gene 3	Chr2: 128.592351	6.5511647	11	Chr1: 45.598788	0.5072281	67	7.7519E-06	0.29805	-0.0619933	0.76353
10339269			Affy_10339269	Affymetrix Mous	ChrUn: 1.000000	6.9595177	9.2	Chr13: 98.86691	-0.5070826	67	7.8089E-06	0	0	1
10392010	76719	9140	1700081L11Rik	RIKEN cDNA 17	Chr11: 104.423208	9.7059647	11.1	Chr14: 64.70589	-0.5070684	67	7.8145E-06	0.32048	-0.3856455	0.051688
10391746	237943		Gpatch8	G patch domain	Chr11: 102.538282	8.6927294	15.2	Chr7: 67.469060	-0.5070372	67	7.8267E-06	0.3129	-0.2005922	0.325827
10339091			Affy_10339091	Affymetrix Mous	ChrUn: 1.000000	5.4301177	11.8	Chr1: 99.889934	-0.5068932	67	7.8837E-06	0	0	1
10341586			Affy_10341586	Affymetrix Mous	ChrUn: 1.000000	7.108647	11.3	Chr7: 68.323956	-0.5068931	67	7.8837E-06	0	0	1
10338121			Affy_10338121	Affymetrix Mous	ChrUn: 1.000000	6.5550588	11	Chr14: 59.20157	-0.5068452	67	7.9028E-06	0	0	1
10489305	19281	56924	Ptprt	protein tyrosine	Chr2: 161.527623	7.8511647	12	Chr4: 67.182024	0.5068245	67	7.911E-06	0.40849	-0.0073092	0.971731
10344057			Affy_10344057	Affymetrix Mous	ChrUn: 1.000000	9.2562941	11.5	Chr8: 118.38069	-0.506718	67	7.9535E-06	0	0	1
10605044	627081	41832	Xlr5b	X-linked lympho	ChrX: 73.285197	6.2725412	9.4	Chr2: 70.613187	0.5066174	67	7.9938E-06	0	0	1
10528120	23857	8017	Dmtf1	cyclin D binding	Chr5: 9.118801	8.9093529	10.1	Chr7: 71.410581	-0.5065966	67	8.0022E-06	0.41693	-0.0792719	0.700285
10381416	11858	21123	Rnd2	Rho family GTP	Chr11: 101.468338	8.7053882	9.8	Chr18: 67.51250	0.5063381	67	8.1068E-06	0.37282	0.2198825	0.280444
10559276	16535	85014	Kcnq1	potassium voltag	Chr7: 143.107254	7.6856824	11.6	Chr10: 92.92452	0.5061481	67	8.1845E-06	0.44031	-0.1845525	0.366769
10511631	208890	13770	Slc26a7	solute carrier far	Chr4: 14.505195	6.3208118	14.1	Chr15: 32.69618	0.5059529	67	8.265E-06	0.35099	0.1307734	0.524278
10507177	100040843	110448	Cyp4a32	cytochrome P45	Chr4: 115.600985	5.7768118	10.6	Chr1: 184.32310	0.5057883	67	8.3335E-06	0	0	1
10529385	231125	15119	Zfyve28	zinc finger, FYV	Chr5: 34.194872	7.6822118	10.1	Chr4: 151.15122	0.5057825	67	8.3359E-06	0	0.2667054	0.187819
10343060			Affy_10343060	Affymetrix Mous	ChrUn: 1.000000	6.3296118	11.6	Chr4: 151.15122	-0.505704	67	8.3688E-06	0	0	1
10343636			Affy_10343636	Affymetrix Mous	ChrUn: 1.000000	7.8290236	11.8	Chr6: 94.646958	-0.5056224	67	8.4031E-06	0	0	1
10418903	432839	40975	Gprin2	G protein regula	Chr14: 34.194444	8.5541294	14.3	Chr7: 67.469060	0.5055219	67	8.4455E-06	0	0.0704605	0.732324
10438478	27416	21164	Abcc5	ATP-binding cas	Chr16: 20.331303	9.0008118	12.3	Chr8: 121.00000	-0.5052068	67	8.5797E-06	0.42078	-0.207311	0.309539
10340310			Affy_10340310	Affymetrix Mous	ChrUn: 1.000000	6.7025412	7.5	Chr7: 40.170384	-0.5050826	67	8.6332E-06	0	0	1
10343657			Affy_10343657	Affymetrix Mous	ChrUn: 1.000000	6.716753	14.3	Chr14: 64.66684	-0.5050324	67	8.6549E-06	0	0	1
10342267			Affy_10342267	Affymetrix Mous	ChrUn: 1.000000	8.7193294	9.7	Chr5: 24.321400	-0.5049842	67	8.6757E-06	0	0	1
10548661			Affy_10548661	Affymetrix Mous	Chr6: 132.527815	11.963494	10.1	Chr15: 102.3604	0.5049396	67	8.6951E-06	0	0	1
10339799			Affy_10339799	Affymetrix Mous	ChrUn: 1.000000	6.1712	8.9	Chr2: 112.27577	-0.5048251	67	8.745E-06	0	0	1
10416112	239157	5249	Pnma2	paraneoplastic a	Chr14: 66.911208	6.3142471	10.9	Chr7: 70.848220	0.5047983	67	8.7567E-06	0	0.0446025	0.828714
10342780			Affy_10342780	Affymetrix Mous	ChrUn: 1.000000	8.1650823	17.1	Chr8: 121.00000	-0.5047526	67	8.7767E-06	0	0	1
10448694	20974	3101	Syngr3	synaptogyrin 3	Chr17: 24.685091	7.8054941	10.4	Chr9: 54.805289	0.5046786	67	8.8092E-06	0.32323	0.0071651	0.972288
10608452	100041256	86944	LOC100041256		ChrY: 1.793165	6.1177882	10.9	Chr12: 25.48096	0.5046263	67	8.8322E-06	0	0	1
10401023	72338	43791	Wdr89	WD repeat doma	Chr12: 75.630915	8.9707529	7.3	Chr17: 3.227818	0.5045869	67	8.8496E-06	0	-0.1554331	0.448329
10501663	229780	6875	tmrt13	tRNA methyltran	Chr3: 116.581336	8.0222942	12.9	Chr19: 8.707699	-0.5045113	67	8.8831E-06	0	0	1
10339863			Affy_10339863	Affymetrix Mous	ChrUn: 1.000000	7.3492941	8.6	Chr7: 67.469060	-0.5044593	67	8.9061E-06	0	0	1
10366403			Affy_10366403	Affymetrix Mous	Chr10: 114.801757	8.7843059	12	Chr7: 56.524155	0.5043616	67	8.9496E-06	0	0	1
10570720			Affy_10570720	predicted pseud	Chr8: 21.576650	5.8944941	9.5	Chr4: 105.24870	0.5043597	67	8.9505E-06	0	0	1
10525076	231691	38235	Sds	serine dehydrata	Chr5: 120.476547	7.3131647	11.5	Chr7: 83.629949	0.5043484	67	8.9555E-06	0.59813	0.8412993	7.31E-08
10343553			Affy_10343553	Affymetrix Mous	ChrUn: 1.000000	6.0401765	8.9	Chr5: 33.529528	-0.504024	67	9.1015E-06	0	0	1
10563220	76787		Ppfia3	protein tyrosine	Chr7: 45.339127	7.345847	12.2	Chr10: 57.75246	0.5039133	67	9.1518E-06	0.33638	-0.1162282	0.571785
10353792	73589		1700101I19Rik	RIKEN cDNA 17	Chr1: 34.579224	7.0724118	9.6	Chr16: 66.73052	0.5037274	67	9.2369E-06	0	-0.0462042	0.822657
10591035	319675	27936	5830418K08Rik	RIKEN cDNA 58	Chr9: 15.303343	8.9020117	10.1	Chr11: 108.7137	-0.5037043	67	9.2475E-06	0	-0.1868101	0.360832
10351039	14455		Gas5	growth arrest sp	Chr1: 161.037361	7.6444588	12.1	Chr14: 64.66684	-0.5035774	67	9.3061E-06	0.58534	0.0935145	0.649556
10598983	278203	35479	Spaca5	sperm acrosome	ChrX: 21.068497	5.8426706	10	Chr9: 111.46650	0.5033994	67	9.3888E-06	0	-0.0735929	0.720881
10338771			Affy_10338771	Affymetrix Mous	ChrUn: 1.000000	6.7043647	10.3	Chr8: 107.50985	-0.5033934	67	9.3916E-06	0	0	1
10338304			Affy_10338304	Affymetrix Mous	ChrUn: 1.000000	6.4182588	12.7	Chr7: 66.068226	-0.5033488	67	9.4124E-06	0	0	1
10454512			Affy_10454512	adult male cereb	Chr18: 31.911117	7.0817412	12.9	Chr10: 19.62909	-0.5032423	67	9.4623E-06	0	0	1
10561266	80297	11879	Spnb4	spectrin beta 4	Chr7: 27.356383	7.0467882	10.6	Chr19: 10.70841	0.5031807	67	9.4913E-06	0.35906	-0.0159777	0.938251
10340147			Affy_10340147	Affymetrix Mous	ChrUn: 1.000000	6.7482	11.3	Chr2: 176.00000	-0.5030582	67	9.5492E-06	0	0	1
10391742	237943		Gpatch8	G patch domain	Chr11: 102.528094	9.3452353	9.3	Chr7: 68.323956	-0.5028714	67	9.6381E-06	0.3129	-0.2005922	0.325827
10373810	75219	34984	Dusp18	dual specificity p	Chr11: 3.895247	7.2539059	7.3	Chr18: 62.99401	0.5026782	67	9.7309E-06	0.23923	-0.2934557	0.145668
10371286			Affy_10371286	Affymetrix Mous	Chr10: 82.283579	6.0623412	12	ChrX: 106.2095	0.5026631	67	9.7382E-06	0	0	1
10375501			Affy_10375501	Affymetrix Mous	Chr11: 48.803139	8.7106824	8.6	Chr14: 72.30028	-0.5026385	67	9.7501E-06	0	0	1
10514818	242602	17630	C1orf177	human chromos	Chr4: 106.590909	5.988647	12.1	Chr7: 67.469060	0.5025655	67	9.7854E-06	0	0	1
10341435			Affy_10341435	Affymetrix Mous	ChrUn: 1.000000	7.1039059	10.5	Chr15: 37.46241	-0.5025296	67	9.8028E-06	0	0	1
10516303			Affy_10516303	Affymetrix Mous	Chr4: 126.201174	6.8840941	8.7	Chr8: 118.38069	-0.5022733	67	9.9281E-06	0	0	1

10340012			Affy_10340012	Affymetrix Mous	ChrUn: 1.000000	8.2071294	10.6	Chr14: 64.66684	-0.5021318	67	9.9978E-06	0	0	1
10447786	20517	20665	Slc22a1	solute carrier far	Chr17: 12.648874	7.5430588	9.9	Chr7: 37.923912	0.5020684	67	1.0029E-05	0.5124	0.4160511	0.034512
10344496			Affy_10344496	Affymetrix Mous	ChrUn: 1.000000	7.0125882	11.7	Chr5: 24.065030	-0.5020612	67	1.0033E-05	0	0	1
10342700			Affy_10342700	Affymetrix Mous	ChrUn: 1.000000	8.2834235	13.4	Chr14: 12.24146	-0.502052	67	1.0037E-05	0	0	1
10342798			Affy_10342798	Affymetrix Mous	ChrUn: 1.000000	7.5776824	10.3	Chr7: 67.469060	-0.5019691	67	1.0079E-05	0	0	1
10568436	14183	22566	Fgfr2	Fgfr2 fibroblast g	Chr7: 129.499562	7.4553647	13.3	Chr7: 134.83441	0.5019039	67	1.0111E-05	0.37754	0.1792157	0.381028
10386546	674295		LOC674295		Chr11: 60.679707	8.2494823	10	Chr8: 121.00000	0.5017372	67	1.0195E-05	0	0	1
10389524			Affy_10389524	Affymetrix Mous	Chr11: 86.637740	6.2317882	9.1	Chr15: 37.46241	-0.5016316	67	1.0248E-05	0	0	1
10340385			Affy_10340385	Affymetrix Mous	ChrUn: 1.000000	7.4746706	10.6	Chr14: 59.20157	-0.5015639	67	1.0282E-05	0	0	1
10513200	67402	41663	Txndc8	thioredoxin dom	Chr4: 57.984029	6.3356471	9.4	Chr15: 97.76064	0.5014672	67	1.0332E-05	0.36498	-0.0509958	0.804598
10519516	319653	6040	Slc25a40	solute carrier far	Chr5: 8.422838	8.7898706	13.6	Chr11: 35.68778	-0.5013849	67	1.0374E-05	0	-0.1699024	0.406659
10510910	70673	11139	Prdm16	PR domain cont	Chr4: 154.341228	9.0500118	17.6	Chr7: 36.760233	0.5013123	67	1.0411E-05	0.51956	-0.2456613	0.226405
10344243			Affy_10344243	Affymetrix Mous	ChrUn: 1.000000	6.4905176	8.9	Chr2: 179.27783	-0.5012068	67	1.0465E-05	0	0	1
10387483	13643	1076	Efnb3	ephrin B3	Chr11: 69.554105	7.8473764	11.8	Chr7: 70.848220	0.5011312	67	1.0504E-05	0.30363	-0.0091409	0.964651
10594911	21778	32072	Tex9	testis expressed	Chr9: 72.458579	8.1642	12.4	Chr9: 68.403735	-0.5010388	67	1.0552E-05	0.31845	-0.1847141	0.366342
10544801	15396	4033	Hoxa11	homeobox A11	Chr6: 52.242106	6.5462706	13	Chr7: 68.323956	0.5010341	67	1.0555E-05	0.39815	-0.0234248	0.909567
10544638	101214	40866	Tra2a	transformer 2 alp	Chr6: 49.262929	9.4274588	13.9	Chr8: 121.00000	-0.5010194	67	1.0562E-05	0.44936	-0.1345458	0.512274
10414374	16709	7397	Ktn1	kinectin 1	Chr14: 47.649357	9.3196	12.5	Chr4: 67.182024	-0.5008928	67	1.0628E-05	0.29238	-0.2696171	0.182862
10586174			Affy_10586174	Affymetrix Mous	Chr9: 64.177123	8.9057412	11.7	Chr15: 32.69618	-0.5007273	67	1.0715E-05	0	0	1
10584624	100042548		Gm3898	predicted gene 3	Chr9: 43.829961	7.7220588	11.3	Chr19: 10.70841	0.5006546	67	1.0754E-05	0	0	1
10458958			Affy_10458958	Affymetrix Mous	Chr18: 55.745328	7.2312823	9	Chr12: 45.61788	0.5005666	67	1.08E-05	0	0	1
10373334	27400	20811	Hsd17b6	hydroxysteroid (	Chr10: 127.990933	6.6454706	10.3	Chr7: 134.83441	0.5004224	67	1.0877E-05	0.27297	0.6982974	7.28E-05
10342752			Affy_10342752	Affymetrix Mous	ChrUn: 1.000000	7.6735882	13.4	Chr7: 66.068226	-0.5003104	67	1.0937E-05	0	0	1
10491098	208188	57161	Ghsr	growth hormone	Chr3: 27.371351	8.1719765	9.3	Chr2: 179.08869	0.5002555	67	1.0967E-05	0.45757	0.2581927	0.202839
10339305			Affy_10339305	Affymetrix Mous	ChrUn: 1.000000	7.5273529	24.6	Chr8: 121.00000	-0.5002155	67	1.0988E-05	0	0	1
10375497			Affy_10375497	Affymetrix Mous	Chr11: 48.800866	8.3468471	7.4	Chr12: 27.82284	-0.5000844	67	1.1059E-05	0	0	1
10340964			Affy_10340964	Affymetrix Mous	ChrUn: 1.000000	8.0377177	9.8	Chr14: 64.66684	-0.5000668	67	1.1069E-05	0	0	1
10338845			Affy_10338845	Affymetrix Mous	ChrUn: 1.000000	7.055353	17.2	Chr7: 67.469060	-0.4999421	67	1.1137E-05	0	0	1
10583438	258905	115523	Olfr871	olfactory recepto	Chr9: 20.212301	5.3855883	14.4	Chr7: 56.524155	0.4998721	67	1.1175E-05	0	-0.0925086	0.653093
10338174			Affy_10338174	Affymetrix Mous	ChrUn: 1.000000	8.2511176	11	Chr7: 68.323956	-0.4997866	67	1.1222E-05	0	0	1
10592629	110637	81829	Grik4	glutamate recep	Chr9: 42.520412	7.0427765	14.2	Chr2: 179.21483	0.4997377	67	1.1249E-05	0.34834	0.0020184	0.992192
10365003	100217454		Snord37	small nucleolar I	Chr10: 81.178951	7.4316588	8.9	Chr7: 38.109850	-0.4995635	67	1.1346E-05	0	0	1
10391518	13384	31065	Mpp3	membrane prote	Chr11: 101.999662	7.5053294	9.3	Chr8: 121.00000	0.4993738	67	1.1452E-05	0.32305	-0.041077	0.842079
10340613			Affy_10340613	Affymetrix Mous	ChrUn: 1.000000	8.1393647	12.1	Chr15: 37.46241	-0.4993469	67	1.1467E-05	0	0	1
10545874	69049	87019	Cml5	camello-like 5	Chr6: 85.817220	5.5320823	15.1	ChrX: 48.026885	0.4993385	67	1.1472E-05	0.37465	0.2803732	0.165342
10338509			Affy_10338509	Affymetrix Mous	ChrUn: 1.000000	8.0409412	8.4	Chr1: 74.072831	-0.4993001	67	1.1493E-05	0	0	1
10593174	11808	47927	Apoa4	apolipoprotein A	Chr9: 46.242703	7.3294118	13.8	Chr12: 12.94234	0.4992965	67	1.1495E-05	0.56322	0.5332679	0.005028
10500429	14616	3857	Gja8	gap junction pro	Chr3: 96.918988	7.0771765	9.6	Chr11: 48.11738	0.4991938	67	1.1553E-05	0.40244	0.5314059	0.005212
10527332	53324	1892	Nptx2	neuronal pentra	Chr5: 144.545902	7.6156706	7.6	Chr13: 95.39363	0.4991771	67	1.1563E-05	0.45303	-0.094836	0.644921
10343607			Affy_10343607	Affymetrix Mous	ChrUn: 1.000000	5.5502353	13.4	Chr7: 67.469060	-0.4990202	67	1.1652E-05	0	0	1
10434313	208146	9967	Yeats2	YEATS domain (	Chr16: 20.141108	8.9407059	10	Chr8: 95.747331	-0.4990017	67	1.1662E-05	0.1913	-0.0761694	0.711512
10548931	277898	65333	Slc15a5	solute carrier far	Chr6: 137.983590	7.0461882	7.4	Chr15: 97.76064	0.4989341	67	1.1701E-05	0	0	1
10344484			Affy_10344484	Affymetrix Mous	ChrUn: 1.000000	7.2027647	12.3	Chr10: 100.2384	-0.498934	67	1.1701E-05	0	0	1
10350894			Affy_10350894	Affymetrix Mous	Chr1: 157.621270	7.9259882	20.9	Chr10: 57.75246	0.4989242	67	1.1707E-05	0	0	1
10544763	15401	37583	Hoxa4	homeobox A4	Chr6: 52.189687	8.6016588	12.6	Chr7: 38.109850	0.4987655	67	1.1798E-05	0.36823	-0.1314721	0.522044
10547191	319776	18704	Tmem72	transmembrane	Chr6: 116.692725	7.2683882	9.6	Chr7: 37.923912	0.4986984	67	1.1837E-05	0	0	1
10421817	66897	56996	Naa16	N(alpha)-acetylt	Chr14: 79.334507	8.8187883	8.6	Chr14: 119.3570	-0.4986479	67	1.1866E-05	0.40407	0	1
10444046	54219	9573	Cd320	CD320 antigen	Chr17: 33.843091	8.3072471	9.9	Chr7: 36.760233	0.4986286	67	1.1877E-05	0.54689	-0.1610899	0.431775
10510422	69743	9824	Casz1	castor homolog	Chr4: 148.804392	7.9229059	12.4	Chr4: 40.731591	0.4985522	67	1.1921E-05	0.33638	-0.3295353	0.100185
10392241	50776	5221	Polg2	polymerase (DN	Chr11: 106.768257	7.680047	7.5	Chr7: 122.00000	-0.4984374	67	1.1988E-05	0.38708	0.4827974	0.012483
10563770	13009	20742	Csrp3	cysteine and gly	Chr7: 48.830398	7.8124824	7.8	Chr7: 46.449614	0.498411	67	1.2004E-05	0.53987	0.1570374	0.4436
10388718	19193	40640	Pipox	pipecolic acid ox	Chr11: 77.880615	7.1894824	9.9	Chr15: 60.03873	0.4983781	67	1.2023E-05	0.44701	0.5542661	0.003302
10515425	100217424		Snord38a	small nucleolar I	Chr4: 117.154515	6.7081294	14.7	Chr7: 24.502399	-0.4983283	67	1.2052E-05	0	0	1
10576749	18545	7464	Pcp2	Purkinje cell pro	Chr8: 3.623369	7.8524941	9.8	Chr2: 179.08869	0.4982897	67	1.2075E-05	0.48624	0.1855546	0.364126
10343963			Affy_10343963	Affymetrix Mous	ChrUn: 1.000000	7.1545177	16.7	Chr1: 173.64555	-0.4981491	67	1.2158E-05	0	0	1
10458245			Affy_10458245	Affymetrix Mous	Chr18: 34.942644	5.7044941	9.1	Chr15: 85.42709	-0.4980922	67	1.2192E-05	0	0	1
10402579	214663	5385	Slc25a29	solute carrier far	Chr12: 108.825876	8.0052941	13.2	Chr2: 179.21483	0.4980864	67	1.2195E-05	0.4986	-0.1071079	0.602515
10422232	100043814	86332	Frg2	FSHD region ge	Chr14: 106.093150	8.6111882	10.8	Chr7: 39.677599	0.4980775	67	1.2201E-05	0	0	1
10375499	100216534		Snord96a	small nucleolar I	Chr11: 48.802032	8.3703765	11	Chr15: 32.69618	-0.4980677	67	1.2207E-05	0.43538	0	1
10602350	382243	40759	Gm10439	predicted gene 1	ChrX: 149.594601	6.000047	9.4	Chr3: 146.63108	0.4980471	67	1.2219E-05	0	0	1
10481835	16917	55648	Lmx1b	LIM homeobox t	Chr2: 33.564536	8.2283883	12.4	Chr6: 24.222458	0.4979322	67	1.2288E-05	0.48112	0.2225338	0.274538
10565910	27276	8449	Plekhb1	pleckstrin homol	Chr7: 100.643896	6.7879412	16.8	Chr7: 56.524155	0.4978505	67	1.2337E-05	0.37443	0.071911	0.727018
10551207			Affy_10551207	Affymetrix Mous	Chr7: 25.950253	6.5730706	13.2	Chr6: 115.85813	0.497708	67	1.2422E-05	0	0	1
10455957	546714		Gm5970	predicted gene 5	Chr18: 60.220855	7.2729412	7.5	Chr19: 10.67054	-0.4975855	67	1.2497E-05	0	0	1
10464202	240675	18238	Vwa2	von Willebrand f	Chr19: 56.874416	7.5607647	9.9	Chr7: 68.215797	0.4973498	67	1.2641E-05	0.34521	-0.13369	0.514985
10517609	72269	1352	Cda	cytidine deamina	Chr4: 138.338528	7.5730118	10	Chr15: 65.24518	0.4973396	67	1.2647E-05	0.52889	0.2344854	0.248908
10349340	226359	18792	C1ql2	complement con	Chr1: 120.340582	8.0613412	13.1	Chr7: 71.696966	0.4973344	67	1.265E-05	0.39553	0.1151046	0.575533
10344127			Affy_10344127	Affymetrix Mous	ChrUn: 1.000000	9.5691765	12.2	Chr2: 179.31687	0.4973032	67	1.267E-05	0	0	1
10457077	50764		Fbxo15	F-box protein 15	Chr18: 84.935025	5.2373529	9.6	Chr7: 39.677599	0.4972361	67	1.2711E-05	0.44037	-0.0842461	0.682412
10501567	67225	9746	Rnpc3	RNA-binding reg	Chr3: 113.605067	8.7645059	9.2	Chr8: 118.38069	-0.4971122	67	1.2788E-05	0	-0.019508	0.924642
10577782	330723	17801	Htra4	HtrA serine pept	Chr8: 25.025384	7.9067883	9.7	Chr6: 16.982017	0.4968778	67	1.2934E-05	0	0.0187968	0.927382
10585398	235379	14529	Gldn	gliomedin	Chr9: 54.286486	6.806153	10.7	Chr16: 10.54636	0.4967482	67	1.3016E-05	0.35322	0.0653504	0.751112
10339655			Affy_10339655	Affymetrix Mous	ChrUn: 1.000000	8.3990941	9.5	Chr7: 68.323956	-0.4965942	67	1.3113E-05	0	0	1
10342141			Affy_10342141	Affymetrix Mous	ChrUn: 1.000000	5.7594588	12.5	Chr7: 66.458029	-0.4964893	67	1.318E-05	0	0	1
10442769			Affy_10442769	Affymetrix Mous	Chr17: 25.306112	6.2807294	7.3	Chr7: 29.350349	0.4963937	67	1.3242E-05	0	0	1
10543695			Affy_10543695	Affymetrix Mous	Chr6: 30.277035	7.7203647	9.1	Chr7: 68.323956	-0.4963005	67	1.3302E-05	0	0	1
10556867	320631	87255	Abca15	ATP-binding cas	Chr7: 120.328670	6.0569412	7.8	Chr5: 24.321400	0.4962581	67	1.3329E-05	0.18782	0.0141054	0.945475
10519314			Affy_10519314	Affymetrix Mous	Chr5: 3.090858	6.3109529	15.6	Chr1: 93.673177	0.4962059	67	1.3363E-05	0	0	1
10414034	19661	9261	Rbp3	retinol binding p	Chr14: 33.954003	6.7262941	7.1	Chr7: 74.522856	0.4961838	67	1.3377E-05	0.4931	0.2443964	0.228882
10338230			Affy_10338230	Affymetrix Mous	ChrUn: 1.000000	5.8943647	11.5	Chr7: 135.31453	-0.4961755	67	1.3382E-05	0	0	1
10343832			Affy_10343832	Affymetrix Mous	ChrUn: 1.000000	7.6284118	7.4	Chr14: 55.62268	-0.4961695	67	1.3386E-05	0	0	1
10568921	68566	9256	Caly	calcyon neuron-	Chr7: 140.069887	7.7853059	9.4	Chr2: 179.08869	0.4961271	67	1.3414E-05	0.46732	0	1
10509063	230828	10943	Il22ra1	interleukin 22 re	Chr4: 135.728220	6.9428941	10.9	Chr8: 118.38069	0.4960444	67	1.3468E-05	0.50962	-0.0405674	0.844014
10369920	192734	65995	AI646023	expressed sequ	Chr10: 75.550129	7.9187882	9.1	Chr2: 179.31687	0.4959712	67	1.3515E-05	0	-0.1670591	0.414672
10522411	231293	5474	Cwh43	cell wall biogene	Chr5: 73.406078	6.7878706	10.7	Chr2: 83.413222	0.4959348	67	1.3539E-05	0.33642	0	1
10362064	67692		1700020N01Rik	RIKEN cDNA 17	Chr10: 21.593152	7.1396941	9.9	Chr7: 37.923912	0.4957792	67	1.3642E-05	0	-0.0027411	0.989397
10556127	257891	79346	Olfr479	olfactory recepto	Chr7: 108.054984	6.017247	12.1	Chr15: 63.39226	0.4957463	67	1.3663E-05	0	0.2929281	0.146428
10566791	57355	49631	BC051019	cDNA sequence	Chr7: 109.712181	6.9990235	13.1	Chr7: 74.269946	0.4956883	67	1.3702E-05	0	-0.1516366	0.459626
10462102	72351	34254	Ptar1	protein prenyltra	Chr19: 23.687457	9.4914824	9.2	Chr7: 26.451667	-0.4956411	67	1.3733E-05	0	0.0529972	0.797083
10556749	233801	72281	Acsm4	acyl-CoA synthe	Chr7: 119.690090	6.7039529	12.4	Chr17: 40.57110	0.4954879	67	1.3835E-05	0.2738	0	1
10488639	75400	86695	Defb29	defensin beta 29	Chr2: 152.538714	7.0488941	15.6	Chr2: 179.08869	0.4954164	67	1.3883E-05	0.30318	-0.1201934	0.558646
10509039	78806	12705	4930555I21Rik	RIKEN cDNA 49	Chr4: 135.495987	7.5901412	13.9	Chr10: 57.75246	0.4954114	67	1.3886E-05	0.38935	-0.1447197	0.480584

10398795	104816	113390	Aspg	asparaginase ho	Chr12: 112.106856	7.7477647	16.3	Chr2: 179.08869	0.4953405	67	1.3934E-05	0	0	1
10463981	73713	28386	Rbm20	RNA binding mo	Chr19: 53.677408	7.1784235	9.5	Chr12: 28.73883	0.4953349	67	1.3938E-05	0.43569	0.0988898	0.630785
10555087			Affy_10555087	Affymetrix Mous	Chr7: 97.521808	7.8919294	13	Chr14: 49.40750	-0.4952828	67	1.3973E-05	0	0	1
10341220			Affy_10341220	Affymetrix Mous	ChrUn: 1.000000	7.4111294	10.5	Chr14: 55.62268	-0.4952425	67	1.4E-05	0	0	1
10435733	207683	17613	Igsf11	immunoglobulin	Chr16: 38.902345	7.8747765	9.4	Chr7: 38.10985(	0.4949593	67	1.4193E-05	0.31912	0.4555479	0.019352
10420594			Affy_10420594	Affymetrix Mous	Chr14: 60.779392	7.5350941	13.3	Chr7: 29.350349	0.4949558	67	1.4195E-05	0	0	1
10382795	668255		Gm11741	predicted gene 1	Chr11: 116.382840	12.330988	8.9	Chr5: 36.513000	0.4949415	67	1.4205E-05	0	0	1
10513112	54357	69270	Epb4.1l4b	erythrocyte prote	Chr4: 56.995711	7.4356353	9.2	Chr7: 67.469060	0.4948076	67	1.4297E-05	0.30371	0.203297	0.319208
10348144	69453	79885	Prss56	protease, serine	Chr1: 87.186665	7.4334353	15.1	Chr7: 73.746984	0.494774	67	1.432E-05	0.40468	0	1
10517521	13842	22436	Epha8	Eph receptor A8	Chr4: 136.929419	7.6328	12.6	Chr6: 24.222458	0.4947323	67	1.4349E-05	0.344	0.3083408	0.125392
10483626	13392	3244	Dlx2	distal-less home	Chr2: 71.543408	7.1818353	10.4	Chr19: 10.67054	0.4947018	67	1.437E-05	0.306	-0.3417516	0.087492
10350159	16763	4059	Lad1	ladinin	Chr1: 135.818598	7.8702	11.8	Chr8: 118.38069	0.4947004	67	1.4371E-05	0.37084	-0.1775835	0.385451
10436762			Affy_10436762	Affymetrix Mous	Chr16: 89.057117	6.6718471	15	Chr8: 24.907439	0.4945642	67	1.4465E-05	0	0	1
10508052	14807	73901	Grik3	glutamate recep	Chr4: 125.490841	7.1111294	15.6	Chr2: 179.08869	0.4945327	67	1.4487E-05	0.33236	0.2891188	0.151994
10543921	243755	69125	Slc13a4	solute carrier fa	Chr6: 35.267957	7.5685529	7.3	Chr2: 83.413222	0.4942497	67	1.4686E-05	0.39394	0.0187047	0.927737
10344453			Affy_10344453	Affymetrix Mous	ChrUn: 1.000000	5.6182235	11.3	Chr8: 118.38069	-0.4941864	67	1.4731E-05	0	0	1
10340151			Affy_10340151	Affymetrix Mous	ChrUn: 1.000000	5.5295059	14.1	Chr10: 57.75246	-0.4940301	67	1.4842E-05	0	0	1
10396419			Affy_10396419	predicted pseud	Chr12: 73.649583	7.4841647	9.1	Chr4: 103.68203	-0.4939635	67	1.4889E-05	0	0	1
10376366	70163	52815	2210415F13Rik	RIKEN cDNA 22	Chr11: 58.379046	6.9284471	13.1	Chr9: 56.967084	0.4938023	67	1.5005E-05	0	-0.1515162	0.459986
10584024	330908	55663	Opcml	opioid binding pl	Chr9: 27.791269	6.7753529	8.9	Chr7: 38.10985(	0.4937746	67	1.5025E-05	0.44731	0.0200733	0.922465
10556553	233752	78662	Insc	inscuteable hom	Chr7: 114.743891	7.5080588	13.7	Chr10: 7.662485	0.4936917	67	1.5085E-05	0.34711	0.5415656	0.004272
10482336	94217	56810	Lrp1b	low density lipop	Chr2: 40.596773	6.1489412	10.9	Chr9: 57.337042	0.4936905	67	1.5086E-05	0.48224	-0.0888804	0.665909
10502863	229949	76103	Ak5	adenylate kinase	Chr3: 152.462815	6.5905412	14.3	Chr2: 179.21483	0.4936694	67	1.5101E-05	0	-0.0918868	0.655282
10493317	76022	13002	Gon4l	GON-4-like prot	Chr3: 88.777020	9.4423765	12.6	Chr7: 39.894396	-0.4936586	67	1.5109E-05	0.45381	0	1
10341431			Affy_10341431	Affymetrix Mous	ChrUn: 1.000000	8.4386942	12.6	Chr17: 29.88570	-0.4935468	67	1.519E-05	0	0	1
10417275			Affy_10417275	predicted gene,	Chr14: 5.247733	6.2818235	6.7	Chr2: 73.295052	0.4934605	67	1.5253E-05	0	0	1
10339236			Affy_10339236	Affymetrix Mous	ChrUn: 1.000000	8.8454	10.4	Chr15: 60.03873	-0.4933832	67	1.531E-05	0	0	1
10343013			Affy_10343013	Affymetrix Mous	ChrUn: 1.000000	7.1948588	14.6	Chr1: 103.72486	-0.493371	67	1.5319E-05	0	0	1
10531061	112417	84333	Ugt2b37	UDP glucuronos	Chr5: 87.240492	6.4218118	9.8	Chr19: 53.10301	0.4933526	67	1.5333E-05	0	-0.0647643	0.753275
10585682	541610	121642	Trcg1	taste receptor ce	Chr9: 57.236556	6.1734941	14	Chr11: 108.7137	0.4933099	67	1.5364E-05	0.21174	0.1027114	0.617572
10484716	258634	74077	Olfr1164	olfactory receptc	Chr2: 88.092954	5.9875059	10.7	Chr5: 23.152676	0.4933093	67	1.5364E-05	0	0.1337711	0.514728
10342048			Affy_10342048	Affymetrix Mous	ChrUn: 1.000000	8.1156705	9.8	Chr2: 179.31687	-0.4932914	67	1.5378E-05	0	0	1
10600947	620592	83276	Tmem28	transmembrane	ChrX: 99.821069	7.4048353	13.2	Chr7: 71.410581	0.4932218	67	1.5429E-05	0	0.1145702	0.577319
10598538	67985	85956	Ssxb1	synovial sarcom	ChrX: 8.413304	5.5162353	7.3	Chr12: 26.03477	0.493217	67	1.5433E-05	0	-0.159451	0.436537
10526931	545817	69239	Cyp2w1	cytochrome P45	Chr5: 139.352641	7.4478353	11.5	Chr7: 67.469060	0.4931326	67	1.5495E-05	0	0	1
10341721			Affy_10341721	Affymetrix Mous	ChrUn: 1.000000	8.2975882	8.5	Chr14: 70.69550	-0.4930872	67	1.5529E-05	0	0	1
10482200	227801	17141	Dennd1a	DENN/MADD dc	Chr2: 37.680165	9.4500706	9.1	Chr8: 95.747331	-0.4930575	67	1.5551E-05	0.17052	0.0471375	0.819132
10535006	231807	10106	BC037034	cDNA sequence	Chr5: 138.259658	8.9555647	11	Chr13: 101.2092	-0.4930321	67	1.557E-05	0	-0.114004	0.579214
10511692	27354	1858	Nbn	nibrin	Chr4: 15.957819	8.3959059	16.9	Chr7: 71.696966	0.4930015	67	1.5593E-05	0.39825	0.0821682	0.689858
10343435			Affy_10343435	Affymetrix Mous	ChrUn: 1.000000	8.1595177	9.2	Chr15: 41.49812	-0.4929807	67	1.5608E-05	0	0	1
10338321			Affy_10338321	Affymetrix Mous	ChrUn: 1.000000	7.3704	10.2	Chr7: 68.323956	-0.4928345	67	1.5718E-05	0	0	1
10524969	12123	37853	Hrk	harakiri, BCL2 ir	Chr5: 118.169764	8.9244353	12.2	Chr6: 24.222458	0.4927988	67	1.5745E-05	0.46054	-0.3062277	0.128137
10349671	320718	14179	Slc26a9	solute carrier fa	Chr1: 131.744022	6.7834941	13.6	Chr7: 71.696966	0.4926993	67	1.582E-05	0.34551	-0.1293658	0.528791
10408348	380836	31983	Mrs2	MRS2 magnesiu	Chr13: 24.992483	9.2935529	7	Chr2: 159.04465	-0.4926865	67	1.583E-05	0.3554	0.0207937	0.919691
10338366			Affy_10338366	Affymetrix Mous	ChrUn: 1.000000	8.9493412	10.8	Chr14: 64.70589	-0.4926035	67	1.5893E-05	0	0	1
10366653	24117	31430	Wif1	Wnt inhibitory fa	Chr10: 121.034004	7.1594353	12.6	Chr9: 73.489040	0.4925963	67	1.5898E-05	0.53229	-0.2174614	0.285908
10454113	13510	1463	Dsg1a	desmoglein 1 alp	Chr18: 20.311018	6.5994	18.4	Chr6: 116.94308	0.4924104	67	1.604E-05	0.39099	0.0450048	0.827192
10344152			Affy_10344152	Affymetrix Mous	ChrUn: 1.000000	6.0449176	18.4	Chr7: 67.469060	-0.4922656	67	1.6151E-05	0	0	1
10560873	56746	10555	Tex101	testis expressed	Chr7: 24.668007	6.8663059	13	Chr15: 38.65504	0.4922439	67	1.6168E-05	0.42387	-0.0345053	0.867103
10542093	60345	11023	Nrip2	nuclear receptor	Chr6: 128.399766	7.6222353	8.3	Chr7: 27.524276	0.4921729	67	1.6223E-05	0.21643	-0.1535616	0.453879
10341994			Affy_10341994	Affymetrix Mous	ChrUn: 1.000000	6.1308588	9.2	Chr19: 10.70841	-0.4921505	67	1.624E-05	0	0	1
10484731	404329	36991	Olfr1173	olfactory receptc	Chr2: 88.274109	4.8908824	11.6	Chr8: 121.00000	0.4920662	67	1.6306E-05	0	-0.0099863	0.961384
10342303			Affy_10342303	Affymetrix Mous	ChrUn: 1.000000	8.0882824	22.2	Chr4: 138.25562	-0.4920277	67	1.6336E-05	0	0	1
10567361	209776	45860	Gpr139	G protein-couple	Chr7: 119.144250	7.9598588	13.6	Chr7: 39.894396	0.4920114	67	1.6349E-05	0.32333	0.0005129	0.998016
10342904			Affy_10342904	Affymetrix Mous	ChrUn: 1.000000	8.1692235	8.6	Chr11: 77.01055	-0.4918915	67	1.6442E-05	0	0	1
10480585	241275	18156	Noxa1	NADPH oxidase	Chr2: 25.085667	7.0290824	10.3	Chr8: 26.967895	0.4916715	67	1.6616E-05	0.49014	-0.071389	0.728927
10604344			Affy_10604344	Affymetrix Mous	ChrX: 47.380430	6.8717059	16.4	Chr5: 146.72355	0.4915974	67	1.6675E-05	0	0	1
10556691	434232	45162	Iqck	IQ motif containi	Chr7: 118.855776	7.3927529	13.6	Chr7: 38.10985(	0.4915856	67	1.6684E-05	0	0	1
10399854	23985	20132	Slc26a4	solute carrier fa	Chr12: 31.516097	6.1413529	17	Chr7: 56.524155	0.4914427	67	1.6798E-05	0.43681	0.2464273	0.224915
10478299	241764	41846	L3mbtl	l(3)mbt-like	Chr2: 162.943401	8.0545764	7.9	Chr13: 84.68062	0.4913532	67	1.687E-05	0.33954	-0.0981826	0.633242
10338185			Affy_10338185	Affymetrix Mous	ChrUn: 1.000000	6.7548235	12.1	Chr15: 37.46241	-0.4912116	67	1.6984E-05	0	0	1
10552008	11944	68081	Atp4a	ATPase, H+/K+	Chr7: 30.712230	7.4934118	11.8	Chr7: 34.629602	0.4912082	67	1.6987E-05	0.50026	-0.0308324	0.881145
10409786	72219	122131	1700013B16Rik	RIKEN cDNA 17	Chr13: 59.700141	7.2727765	10.3	Chr7: 37.923912	0.491171	67	1.7017E-05	0	-0.0615657	0.765116
10342676			Affy_10342676	Affymetrix Mous	ChrUn: 1.000000	6.6448	10.5	Chr15: 41.49812	-0.4911119	67	1.7065E-05	0	0	1
10536006	665551	79928	Gm7682	predicted gene 7	Chr5: 94.771466	5.7559647	11.2	Chr8: 95.747331	0.4910998	67	1.7074E-05	0	0	1
10392369	54377	8674	Cacng4	calcium channel	Chr11: 107.734780	8.0509882	13.1	Chr7: 37.923912	0.4909545	67	1.7193E-05	0.41813	0.1577834	0.44141
10342496			Affy_10342496	Affymetrix Mous	ChrUn: 1.000000	8.6520353	9.9	Chr7: 68.323956	-0.4909007	67	1.7237E-05	0	0	1
10436955	76785		2410124H12Rik	RIKEN cDNA 24	Chr16: 92.478742	6.3048471	11.2	Chr7: 68.323956	0.4907775	67	1.7338E-05	0	-0.0822068	0.689719
10486681	74176	20899	Tgm5	transglutaminas	Chr2: 121.046111	7.3964471	10.9	Chr7: 27.067846	0.4907502	67	1.7361E-05	0	-0.1033535	0.615364
10342292			Affy_10342292	Affymetrix Mous	ChrUn: 1.000000	7.4728235	13.4	Chr7: 40.170384	-0.4907178	67	1.7387E-05	0	0	1
10406614	382793		Mtx3	metaxin 3	Chr13: 92.844787	8.3204118	12.1	Chr7: 68.323956	-0.4906987	67	1.7403E-05	0.23959	0.4429891	0.023424
10552030	14447	101265	Gapdhs	glyceraldehyde-	Chr7: 30.729579	8.0315412	11.8	Chr13: 101.2092	-0.4905572	67	1.7521E-05	0.41675	-0.0784943	0.703093
10416189	18092	22604	Nkx2-6	NK2 transcriptio	Chr14: 69.171802	8.0899765	8.2	Chr7: 73.304970	0.4904743	67	1.759E-05	0.28738	-0.0668205	0.745692
10501372			Affy_10501372	Affymetrix Mous	Chr3: 108.451268	7.5326941	12	Chr8: 117.54501	0.4904678	67	1.7595E-05	0	0	1
10500748	22094	463	Tshb	thyroid stimulatir	Chr3: 102.777398	5.7272706	10.8	Chr9: 73.520597	0.4904306	67	1.7626E-05	0.41448	-0.1467588	0.474355
10339056			Affy_10339056	Affymetrix Mous	ChrUn: 1.000000	8.1433059	12.8	Chr10: 53.74314	-0.4903131	67	1.7725E-05	0	0	1
10440664	69661		2310061N02Rik	RIKEN cDNA 23	Chr16: 88.707383	6.6988823	9.3	Chr4: 151.28059	0.4903083	67	1.7729E-05	0	-0.1328889	0.51753
10385175	211652	69180	Wwc1	WW, C2 and co	Chr11: 35.838404	7.1102471	9.6	Chr8: 118.38069	0.4902923	67	1.7742E-05	0.39366	0.1582434	0.440063
10341814			Affy_10341814	Affymetrix Mous	ChrUn: 1.000000	6.1505882	10.6	Chr8: 118.38069	-0.490289	67	1.7745E-05	0	0	1
10386529	674295		LOC674295		Chr11: 60.591721	8.0467764	11.3	Chr4: 67.182024	0.4902516	67	1.7776E-05	0	0	1
10386533	674295		LOC674295		Chr11: 60.610136	8.0467764	11.3	Chr4: 67.182024	0.4902516	67	1.7776E-05	0	0	1
10386535	674295		LOC674295		Chr11: 60.619346	8.0467764	11.3	Chr4: 67.182024	0.4902516	67	1.7776E-05	0	0	1
10386541	674295		LOC674295		Chr11: 60.666684	8.0467764	11.3	Chr4: 67.182024	0.4902516	67	1.7776E-05	0	0	1
10345855	226999	20661	Slc9a2	solute carrier fa	Chr1: 40.681625	6.8921059	10.7	Chr5: 20.911655	0.4901919	67	1.7827E-05	0.33755	-0.3509224	0.07879
10578685			Affy_10578685	Affymetrix Mous	Chr8: 52.278506	7.2371294	11.9	Chr4: 74.391573	0.4901873	67	1.7831E-05	0	0	1
10340079			Affy_10340079	Affymetrix Mous	ChrUn: 1.000000	7.4650941	9.6	Chr14: 55.62268	-0.4900474	67	1.7949E-05	0	0	1
10420241	17232	115745	Mcpt9	mast cell protea	Chr14: 56.026864	6.1144941	6.9	Chr1: 189.22253	0.489996	67	1.7993E-05	0.25696	0	1
10343259			Affy_10343259	Affymetrix Mous	ChrUn: 1.000000	8.0545177	9.3	Chr10: 57.75246	-0.4899829	67	1.8004E-05	0	0	1
10338324			Affy_10338324	Affymetrix Mous	ChrUn: 1.000000	6.7543765	7.8	ChrX: 3.231738	-0.4899608	67	1.8023E-05	0	0	1
10473614	258898	77384	Olfr1203	olfactory receptc	Chr2: 88.831119	5.4103765	8.3	Chr2: 9.829662	0.4898828	67	1.809E-05	0	0.2259969	0.266944
10592404	257912	79377	Olfr948	olfactory receptc	Chr9: 39.318647	4.7106705	12.4	Chr2: 162.69297	0.489694	67	1.8252E-05	0	0.5934934	0.001393
10589616	73336	85697	Prss44	protease, serine	Chr9: 110.814008	7.2634	18.7	Chr7: 67.469060	0.4896739	67	1.827E-05	0.28411	0	1

10521182	231128	2746	Fam193a	family with sequ	Chr5: 34.410599	9.1116823	14.2	Chr8: 94.374289	-0.4895957	67	1.8338E-05	0	0	1
10343699			Affy_10343699	Affymetrix Mous	ChrUn: 1.000000	6.9110353	10.6	Chr2: 181.00898	-0.4895759	67	1.8355E-05	0	0	1
10435112	140474	122439	Muc4	mucin 4	Chr16: 32.736275	7.0027177	9.3	Chr12: 28.80497	0.489545	67	1.8382E-05	0.56773	0.1339126	0.51428
10455761	225518	79756	Prdm6	PR domain cont	Chr18: 53.464546	7.2646941	10.4	Chr17: 67.10168	0.4895437	67	1.8383E-05	0.41604	-0.1870347	0.360244
10352576	26381	55581	Esrrg	estrogen-related	Chr1: 187.997859	7.4493883	10.7	Chr8: 118.38069	0.489527	67	1.8397E-05	0.5508	-0.0585655	0.77627
10392894	328035	18646	Fads6	fatty acid desatu	Chr11: 115.280653	7.9701411	18.9	Chr7: 36.760233	0.4895227	67	1.8401E-05	0.1982	0.5040498	0.008651
10421555	751541		Mir687	microRNA 687	Chr14: 73.206763	7.3160588	10.1	Chr8: 118.38069	-0.4894729	67	1.8444E-05	0	0	1
10340891			Affy_10340891	Affymetrix Mous	ChrUn: 1.000000	7.9588235	12.2	Chr14: 63.56186	-0.4894679	67	1.8449E-05	0	0	1
10342656			Affy_10342656	Affymetrix Mous	ChrUn: 1.000000	5.9004353	10.4	Chr7: 135.31453	-0.4894521	67	1.8463E-05	0	0	1
10343825			Affy_10343825	Affymetrix Mous	ChrUn: 1.000000	6.4554117	12.4	Chr14: 64.70589	-0.4894062	67	1.8503E-05	0	0	1
10563749	233231	24986	Mrgprb1	MAS-related GP	Chr7: 48.444113	5.3979412	11.5	Chr8: 117.54501	0.489392	67	1.8515E-05	0	-0.1582101	0.440161
10448765	30957	22790	Mapk8ip3	mitogen-activate	Chr17: 24.897533	9.439953	11.8	Chr8: 121.00000	-0.4893651	67	1.8539E-05	0.43301	-0.0209591	0.919054
10394685	18217	7452	Ntsr2	neurotensin rece	Chr12: 16.653474	7.6654235	12.2	Chr2: 179.31687	0.4893207	67	1.8578E-05	0.53722	-0.1780258	0.384249
10349480	226412	9108	R3hdm1	R3H domain 1 (l	Chr1: 128.103306	9.9444824	9.1	Chr8: 95.747331	-0.489159	67	1.872E-05	0	-0.2961752	0.141799
10399640	69902	6379	Mrto4	MRT4, mRNA tu	Chr12: 21.778473	10.024765	10.5	Chr7: 73.746984	0.4891181	67	1.8756E-05	0	0.0408281	0.843024
10343629			Affy_10343629	Affymetrix Mous	ChrUn: 1.000000	5.6498823	7.3	Chr15: 38.65504	-0.4890972	67	1.8775E-05	0	0	1
10401824	193322		Oog1	oogenesin 1	Chr12: 88.175598	5.2766235	9.9	Chr7: 45.140566	0.4890826	67	1.8788E-05	0.3795	0.0077271	0.970116
10493664	77595	28122	Nup210l	nucleoporin 210	Chr3: 90.170559	6.8612941	13	Chr5: 103.11682	-0.4889437	67	1.8911E-05	0.49195	0	1
10393628	207592	10380	Tbc1d16	TBC1 domain fa	Chr11: 119.147133	8.4859059	8.8	Chr7: 67.469060	0.4889032	67	1.8948E-05	0	0.2730413	0.177151
10388898	69109	13362	Fam58b	family with sequ	Chr11: 78.750506	8.7244588	8.6	Chr7: 19.157130	0.4888789	67	1.8969E-05	0.35043	0	1
10397112	170721	71541	Papln	papilin, proteogl	Chr12: 83.763634	8.0532353	12.8	Chr4: 40.731591	0.4888466	67	1.8998E-05	0.30552	0.0124016	0.952054
10575894	68270	12256	Lrrc50	leucine rich repe	Chr8: 119.575235	7.7118	11.3	Chr13: 97.78121	0.4888287	67	1.9014E-05	0.22899	-0.3970236	0.044614
10578203	71908	12421	Cldn23	claudin 23	Chr8: 35.824474	7.5276941	11.3	Chr19: 53.38588	0.4888028	67	1.9038E-05	0.35151	-0.1576491	0.441804
10531627	319818		A930011G23Rik	RIKEN cDNA A9	Chr5: 99.375024	8.1878	10.3	Chr7: 27.067846	0.4887829	67	1.9056E-05	0	0.2329654	0.252077
10515924	194237	18336	Rimkla	ribosomal modifi	Chr4: 119.465283	8.0000235	10.4	Chr7: 37.923912	0.4887807	67	1.9058E-05	0.41385	0	1
10596185	321022	75069	Cdv3	carnitine deficie	Chr9: 103.353101	11.303847	10.2	Chr7: 39.677595	0.4887684	67	1.9069E-05	0.41043	-0.0642256	0.755266
10547697	76921	19495	1700013D24Rik	RIKEN cDNA 17	Chr6: 124.347680	7.3340706	7.4	Chr3: 65.670861	0.4887512	67	1.9084E-05	0	-0.0149407	0.942252
10599286	100040016	41772	Rhox2e	reproductive hor	ChrX: 37.530496	6.4099647	8.3	Chr2: 102.76475	0.4885176	67	1.9295E-05	0	0	1
10439936	80859	12734	Nfkbiz	nuclear factor of	Chr16: 55.811378	8.8699412	10.4	Chr8: 118.38069	-0.4884882	67	1.9322E-05	0.45102	-0.0569905	0.782142
10434698	59083	8660	Fetub	fetuin beta	Chr16: 22.920237	6.1879059	9.2	Chr1: 38.394703	0.4884787	67	1.9331E-05	0.47894	0.4669968	0.016163
10342117			Affy_10342117	Affymetrix Mous	ChrUn: 1.000000	7.5437059	11.3	Chr11: 20.80248	-0.4884707	67	1.9338E-05	0	0	1
10552566	13648	68141	Klk1b9	kallikrein 1-relat	Chr7: 43.976061	7.0222588	10.8	Chr10: 87.14687	0.4884678	67	1.9341E-05	0.37353	-0.1198844	0.559665
10384762	268391		A830031A19Rik	RIKEN cDNA A8	Chr11: 24.048955	7.6655412	8.9	Chr7: 37.923912	0.4884294	67	1.9376E-05	0	0.005934	0.977048
10588081	26927	74992	Foxl2	forkhead box L2	Chr9: 98.955661	8.4593411	14	Chr7: 68.323956	0.4883746	67	1.9426E-05	0.39875	0.1981986	0.331753
10340026			Affy_10340026	Affymetrix Mous	ChrUn: 1.000000	7.4654	8.6	Chr14: 67.81165	-0.4883554	67	1.9444E-05	0	0	1
10524089	403178	41259	Plcxd1	phosphatidylinos	Chr5: 110.099969	7.7107765	17.4	Chr7: 73.746984	0.4883504	67	1.9448E-05	0.4401	-0.0999105	0.627245
10507983	230735		Epha10	Eph receptor A1	Chr4: 124.880899	8.2013294	12.5	Chr9: 54.805289	0.4882177	67	1.957E-05	0.26901	-0.1660512	0.417533
10343183			Affy_10343183	Affymetrix Mous	ChrUn: 1.000000	8.5161883	13.3	Chr7: 68.323956	-0.4880344	67	1.974E-05	0	0	1
10343166			Affy_10343166	Affymetrix Mous	ChrUn: 1.000000	11.309353	8.9	Chr2: 178.71731	0.4878706	67	1.9892E-05	0	0	1
10570697			Affy_10570697	predicted pseud	Chr8: 21.309172	5.6957529	9.1	Chr5: 39.743857	0.4877408	67	2.0014E-05	0	0	1
10341347			Affy_10341347	Affymetrix Mous	ChrUn: 1.000000	6.8116471	8.7	Chr7: 97.692111	-0.4875039	67	2.0238E-05	0	0	1
10342559			Affy_10342559	Affymetrix Mous	ChrUn: 1.000000	8.5127882	14.6	Chr1: 65.168224	-0.4875023	67	2.024E-05	0	0	1
10338679			Affy_10338679	Affymetrix Mous	ChrUn: 1.000000	6.4254117	10.4	Chr2: 173.42650	-0.4874888	67	2.0253E-05	0	0	1
10602756	66106	8640	Smpx	small muscle pro	ChrX: 157.699118	5.4076824	9.2	Chr8: 36.572547	0.4872544	67	2.0477E-05	0.35957	-0.0880809	0.668745
10436498	71135		4933411O13Rik	RIKEN cDNA 49	Chr16: 66.892511	6.3908235	15.7	Chr6: 24.222458	0.4871268	67	2.06E-05	0	0.2575866	0.203938
10485771	277562	73992	Olfr1286	olfactory recepto	Chr2: 111.420032	5.4054	16.8	Chr7: 67.469060	0.4870578	67	2.0666E-05	0	0.0521369	0.800311
10341628			Affy_10341628	Affymetrix Mous	ChrUn: 1.000000	8.137	10.5	Chr7: 17.135649	-0.4870533	67	2.0671E-05	0	0	1
10340768			Affy_10340768	Affymetrix Mous	ChrUn: 1.000000	7.8423412	9.2	Chr5: 24.309957	-0.4869124	67	2.0808E-05	0	0	1
10511870	14348	4800	Fut9	fucosyltransfera	Chr4: 25.609333	6.0120235	11.1	Chr8: 17.033700	0.4868647	67	2.0854E-05	0.43264	-0.1313083	0.522568
10410778	110789	19815	Adgrv1	adhesion G prot	Chr13: 81.095068	6.2191765	12.6	Chr7: 59.986065	0.4868311	67	2.0887E-05	0.39669	0	1
10391744	237943		Gpatch8	G patch domain	Chr11: 102.536639	8.4583294	8.3	Chr14: 63.56186	-0.4868178	67	2.09E-05	0.3129	-0.2005922	0.325827
10549889	20871	87004	Aurkc	aurora kinase C	Chr7: 6.995300	7.9246706	9.2	Chr8: 95.747331	0.4867631	67	2.0954E-05	0.35465	-0.0197791	0.923597
10338999			Affy_10338999	Affymetrix Mous	ChrUn: 1.000000	7.7039177	10.5	Chr14: 64.70589	-0.486726	67	2.099E-05	0	0	1
10476056	99169		AU015228	expressed sequ	Chr2: 130.100394	6.6788118	9	Chr2: 179.21483	0.4866546	67	2.1061E-05	0	0.2694855	0.183084
10519241	330010	51912	Ttll10	tubulin tyrosine l	Chr4: 156.034837	7.3237647	12.5	Chr7: 24.937915	0.4866109	67	2.1104E-05	0.34581	-0.1342775	0.513123
10341239			Affy_10341239	Affymetrix Mous	ChrUn: 1.000000	7.743953	9.1	Chr8: 117.54501	-0.4865844	67	2.113E-05	0	0	1
10432133	629524	121424	Olfr286	olfactory recepto	Chr15: 98.226675	6.5613765	7.6	Chr19: 10.70841	0.4865432	67	2.1171E-05	0	0	1
10401774	217738	83509	Ism2	isthmin 2 homolo	Chr12: 87.279692	7.3524118	12.2	Chr7: 29.350349	0.4865068	67	2.1207E-05	0	0	1
10550197	71468	44937	Obox1	oocyte specific h	Chr7: 15.547268	5.7505176	7.5	Chr15: 68.83070	0.4863796	67	2.1333E-05	0.38397	0.1485063	0.469051
10338223			Affy_10338223	Affymetrix Mous	ChrUn: 1.000000	9.6727882	10.3	Chr7: 68.323956	-0.4863401	67	2.1373E-05	0	0	1
10591905	70893	72240	Glb1l3	galactosidase, b	Chr9: 26.818030	5.6131059	14.1	Chr15: 29.04590	0.4863222	67	2.1391E-05	0.30718	-0.348305	0.081204
10347650	241118	11166	Accn4	amiloride-sensiti	Chr1: 75.450460	7.7897177	13.4	Chr9: 54.805289	0.4862325	67	2.1481E-05	0	0.4932428	0.010454
10416271	723838		Mir320	microRNA 320	Chr14: 70.443510	10.065953	8.2	Chr7: 36.760233	0.4861876	67	2.1526E-05	0.50603	0	1
10572332	234373	8923	Sugp2	SURP and G pa	Chr8: 70.234233	9.0269294	12	Chr15: 37.46241	-0.4861506	67	2.1563E-05	0.36468	0	1
10342327			Affy_10342327	Affymetrix Mous	ChrUn: 1.000000	8.7844706	7.7	Chr16: 27.49811	-0.4861136	67	2.1601E-05	0	0	1
10343543			Affy_10343543	Affymetrix Mous	ChrUn: 1.000000	9.2976706	11.7	Chr7: 68.323956	-0.4859784	67	2.1737E-05	0	0	1
10395225	100038387		Gm10473	predicted gene 1	Chr12: 31.500358	7.3261177	11.2	Chr1: 27.253420	0.4858527	67	2.1865E-05	0	0	1
10346876	100217464		Snora41	small nucleolar r	Chr1: 63.179004	7.4655882	10.8	Chr10: 102.1150	-0.485849	67	2.1869E-05	0	0	1
10339783			Affy_10339783	Affymetrix Mous	ChrUn: 1.000000	7.4936	15.5	Chr11: 48.11738	-0.4857675	67	2.1953E-05	0	0	1
10550146	29865	8486	Cabp5	calcium binding	Chr7: 13.398132	6.8589412	6.7	ChrX: 9.334336	0.4857653	67	2.1955E-05	0.33043	0.2293773	0.259663
10586331	19289	3590	Igdcc3	immunoglobulin	Chr9: 65.141154	7.6231176	8.3	Chr2: 82.106116	0.4857276	67	2.1994E-05	0.39624	0	1
10558242	15372	24625	Hmx2	H6 homeobox 2	Chr7: 131.548773	8.6718823	10.9	Chr2: 83.413222	0.4856318	67	2.2092E-05	0.31689	-0.02398	0.907433
10604982	385377	14176	Pnma5	paraneoplastic a	ChrX: 73.035746	6.6061882	13.6	Chr7: 36.716982	0.4856253	67	2.2099E-05	0	0.0425069	0.836653
10464171	83561	12850	Tdrd1	tudor domain co	Chr19: 56.826209	6.5354706	12.8	Chr7: 71.696966	0.4854139	67	2.2318E-05	0.2929	0.0114201	0.955844
10343751			Affy_10343751	Affymetrix Mous	ChrUn: 1.000000	7.9130353	9.2	Chr14: 55.62268	-0.4854004	67	2.2332E-05	0	0	1
10344183			Affy_10344183	Affymetrix Mous	ChrUn: 1.000000	8.7879176	11.8	Chr8: 118.38069	-0.4853941	67	2.2338E-05	0	0	1
10523856			Affy_10523856	Affymetrix Mous	Chr5: 107.437997	6.9925177	11	Chr7: 68.323956	-0.4853811	67	2.2352E-05	0	0	1
10552240	668501	8942	Zfp507	zinc finger prote	Chr7: 35.802593	9.4784823	10.7	Chr7: 73.746984	0.4853232	67	2.2412E-05	0	0	1
10338115	72313	103956	Fryl	FRY like transcr	Chr5: 73.045266	6.5665529	23.7	Chr7: 67.469060	-0.4853005	67	2.2436E-05	0	-0.1175429	0.567413
10576581	16525	1691	Kcnk1	potassium chan	Chr8: 125.995170	7.6413177	18.5	Chr15: 80.25285	0.4852629	67	2.2475E-05	0.42631	-0.1840635	0.368062
10488558	241727	8817	Snph	syntaphilin	Chr2: 151.590550	8.4479059	9.6	Chr9: 121.79702	0.4851831	67	2.2559E-05	0.38313	0.0386292	0.851384
10404612	68750	2218	Rreb1	ras responsive e	Chr13: 37.826039	9.6101176	11.5	Chr7: 68.323956	-0.4851165	67	2.2629E-05	0.39892	0.0526803	0.798272
10555925	233649	13579	Cnga4	cyclic nucleotide	Chr7: 105.404568	6.2789059	13.7	Chr5: 24.311463	0.4850541	67	2.2695E-05	0.20979	-0.0073664	0.97151
10519268			mir-200b	microRNA 200b	Chr4: 156.055681	6.0056117	7.5	Chr12: 103.0316	0.4850457	67	2.2704E-05	0	0	1
10338824			Affy_10338824	Affymetrix Mous	ChrUn: 1.000000	7.6026118	12	Chr14: 64.70589	-0.4849184	67	2.2839E-05	0	0	1
10496036	77018	57111	Col25a1	collagen, type X	Chr3: 130.180878	7.6081765	12.2	Chr7: 37.923912	0.4849113	67	2.2847E-05	0.39219	0.1674418	0.413589
10547469	406236	74290	Hsn2	Protein HSN2	Chr6: 119.962367	9.6432235	8.1	Chr8: 118.38069	-0.4848936	67	2.2865E-05	0	0.1542224	0.451915
10579600	16453	181	Jak3	Janus kinase 3	Chr8: 71.676294	8.1861647	9.6	Chr2: 179.31687	0.4847331	67	2.3037E-05	0.48765	-0.1699342	0.40657
10429524	78725		D730001G18Rik	RIKEN cDNA D7	Chr15: 74.770908	7.1497765	8.7	Chr7: 36.955819	0.4846746	67	2.31E-05	0	-0.2908036	0.149514
10457967	17922	81947	Myo7b	myosin VIIB	Chr18: 31.959234	7.2203765	18.9	Chr7: 64.892730	0.4843242	67	2.3479E-05	0.22632	-0.0990432	0.630252
10602258			Affy_10602258	predicted gene	ChrX: 146.932685	6.3424118	6.8	Chr2: 172.73480	0.4843025	67	2.3502E-05	0	0	1
10343202			Affy_10343202	Affymetrix Mous	ChrUn: 1.000000	10.045518	14	Chr8: 118.38069	-0.4839941	67	2.3841E-05	0	0	1

10343853			Affy_10343853	Affymetrix Mous	ChrUn: 1.000000	6.5374706	11.6	Chr15: 102.3604	-0.4839755	67	2.3862E-05	0	0	1
10508272	329942		Csmd2	CUB and Sushi	Chr4: 127.987313	7.3270706	8.4	Chr9: 106.02064	0.483808	67	2.4048E-05	0	0.065714	0.74977
10582843	16412	22999	Itgb1	integrin beta 1 (I	Chr8: 128.685375	9.0345177	10.2	Chr7: 73.304970	0.4837954	67	2.4062E-05	0.36444	-0.0853606	0.67843
10490777	80892	23477	Zfhx4	zinc finger home	Chr3: 5.218659	7.0474118	11.3	Chr2: 179.21483	0.4837607	67	2.4101E-05	0.45451	0.296187	0.141782
10404904	666794	23015	Rbm24	RNA binding mo	Chr13: 46.419031	7.4320706	13.8	Chr19: 10.70841	0.4837402	67	2.4124E-05	0.43954	-0.1430958	0.485574
10446537	320858		L3mbtl4	l(3)mbt-like 4 (D	Chr17: 68.273827	6.8727647	9.9	Chr7: 39.894396	0.4837396	67	2.4124E-05	0	0.2203338	0.279433
10384595	237694		4932414J04Rik	RIKEN cDNA 49	Chr11: 21.494730	6.5888471	8.6	Chr13: 54.61403	0.4836986	67	2.417E-05	0.24818	-0.0227	0.912355
10390454	103551	82351	C17orf96	human chromos	Chr11: 97.627387	8.7588706	11.9	Chr7: 71.696966	0.4836202	67	2.4258E-05	0.20747	0	1
10404464	20709	69093	Serpinb9f	serine (or cystei	Chr13: 33.324077	6.0170353	12	Chr12: 10.16634	0.4835153	67	2.4377E-05	0	0	1
10461526	71768	17651	Vwce	von Willebrand f	Chr19: 10.634233	7.7392588	15.4	Chr7: 39.677599	0.4835091	67	2.4383E-05	0.42125	0.7220492	3.12E-05
10571612	212392	17668	Ccdc110	coiled-coil doma	Chr8: 45.934649	7.3516471	8.7	Chr7: 39.677599	0.4834589	67	2.444E-05	0	-0.0682027	0.740607
10344320			Affy_10344320	Affymetrix Mous	ChrUn: 1.000000	7.8177294	13.3	Chr8: 117.54501	-0.4834135	67	2.4492E-05	0	0	1
10446473	16772	21146	Lama1	laminin, alpha 1	Chr17: 67.697265	7.2429765	10.5	Chr7: 67.469060	0.4833687	67	2.4543E-05	0.33663	0.3032481	0.132083
10485027	14061	426	F2	coagulation fact	Chr2: 91.624938	7.0307412	10.1	Chr2: 178.71731	0.4833505	67	2.4563E-05	0.54286	0.889204	1.27E-09
10338746			Affy_10338746	Affymetrix Mous	ChrUn: 1.000000	9.4965647	11	Chr7: 71.410581	-0.4832655	67	2.466E-05	0	0	1
10342069			Affy_10342069	Affymetrix Mous	ChrUn: 1.000000	7.9454	9.1	Chr14: 64.70589	-0.4831239	67	2.4822E-05	0	0	1
10595183	13627	100799	Eef1a1	eukaryotic trans	Chr9: 78.478453	14.971529	12.3	Chr7: 36.955819	0.4830425	67	2.4916E-05	0.57227	0.166793	0.415427
10344535			Affy_10344535	Affymetrix Mous	ChrUn: 1.000000	7.7131294	16.3	Chr14: 64.66684	-0.4829775	67	2.4991E-05	0	0	1
10606009	245536	52739	Gm614	predicted gene 6	ChrX: 101.261377	7.7212235	10.2	Chr7: 68.323956	-0.4829717	67	2.4998E-05	0	-0.1119292	0.586183
10344164			Affy_10344164	Affymetrix Mous	ChrUn: 1.000000	6.5124589	10.8	Chr16: 96.34892	-0.4829355	67	2.5039E-05	0	0	1
10341970			Affy_10341970	Affymetrix Mous	ChrUn: 1.000000	7.4778588	9.3	Chr7: 71.410581	-0.4828772	67	2.5107E-05	0	0	1
10340236	12847	3218	Copa	coatomer protei	Chr1: 174.034998	6.6706235	13.5	Chr1: 172.57830	-0.4828616	67	2.5125E-05	0.31721	-0.0355882	0.86297
10418578	64652	5201	Nisch	nischarin	Chr14: 31.170928	10.398871	9.5	Chr5: 24.321400	-0.4827878	67	2.5211E-05	0.4873	0.0022587	0.991263
10460303	29866	8487	Cabp2	calcium binding	Chr19: 4.083490	7.8620588	13	Chr8: 95.747331	0.4827601	67	2.5243E-05	0.27909	0.0958292	0.641446
10472809	13390	22558	Dlx1	distal-less home	Chr2: 71.529445	7.3350471	16.5	Chr7: 71.410581	0.4825538	67	2.5485E-05	0.31044	-0.0645465	0.75408
10414137	14803	69017	Grid1	glutamate recep	Chr14: 34.820166	7.0251412	10.1	Chr7: 26.134324	0.4825486	67	2.5491E-05	0.37838	0	1
10366391	268345	71199	Kcnc2	potassium voltag	Chr10: 112.271121	6.6456235	13.4	Chr7: 70.164957	0.4825445	67	2.5496E-05	0.36922	0.1616926	0.430031
10536029	100554		AA792892	expressed sequ	Chr5: 94.377317	5.7315412	12.3	Chr3: 144.66638	0.4824518	67	2.5605E-05	0	0.2019805	0.322419
10536041	100554		AA792892	expressed sequ	Chr5: 94.381336	5.7315412	12.3	Chr3: 144.66638	0.4824518	67	2.5605E-05	0	0.2019805	0.322419
10474234	68243	41690	A930018P22Rik	RIKEN cDNA A9	Chr2: 104.122769	7.1867647	8.4	Chr7: 24.937915	0.4824381	67	2.5621E-05	0	0.0449824	0.827277
10597978	17281	11561	Fyco1	FYVE and coiled	Chr9: 123.789510	9.0147764	10.5	Chr6: 95.073515	-0.4823079	67	2.5776E-05	0.32683	-0.1758863	0.390082
10344272			Affy_10344272	Affymetrix Mous	ChrUn: 1.000000	6.7053412	11.7	Chr8: 121.00000	-0.4822249	67	2.5874E-05	0	0	1
10515832	258214	79401	Olfr1329	olfactory recept	Chr4: 118.916524	6.7712706	13.3	Chr3: 143.60223	0.4821805	67	2.5927E-05	0	0	1
10342586			Affy_10342586	Affymetrix Mous	ChrUn: 1.000000	7.4061765	12.3	Chr4: 102.85102	-0.482129	67	2.5989E-05	0	0	1
10557060	74466	62261	4933427G17Rik	RIKEN cDNA 49	Chr7: 120.982509	6.8799059	10	Chr10: 57.75246	0.4820792	67	2.6049E-05	0	-0.1786085	0.38267
10342000			Affy_10342000	Affymetrix Mous	ChrUn: 1.000000	8.1570589	7.9	Chr7: 71.696966	-0.4820209	67	2.6119E-05	0	0	1
10349442	72949	14043	Ccnt2	cyclin T2	Chr1: 127.774164	10.132435	10	Chr10: 57.75246	-0.4819992	67	2.6145E-05	0.35804	-0.1155868	0.573923
10343932			Affy_10343932	Affymetrix Mous	ChrUn: 1.000000	7.7293058	10	Chr14: 55.62268	-0.481977	67	2.6172E-05	0	0	1
10408555	78903	10592	Wrnip1	Werner helicase	Chr13: 32.802457	9.6598824	11.5	Chr6: 24.222458	0.4818983	67	2.6267E-05	0.40914	0.3365581	0.09273
10446715	320159	65315	Fam179a	family with sequ	Chr17: 71.685165	7.3467765	12.9	Chr13: 92.68845	0.4818833	67	2.6285E-05	0	0	1
10528972	83762	12892	Otof	otoferlin	Chr5: 30.370076	7.598	15.5	Chr7: 70.84822	0.4818741	67	2.6296E-05	0.34289	-0.1740132	0.395229
10466165	381213	9796	Ms4a12	membrane-span	Chr19: 11.215023	6.4595059	12.4	Chr7: 37.923912	0.4818601	67	2.6313E-05	0	0	1
10429584			Affy_10429584	Affymetrix Mous	Chr15: 75.235649	7.0580823	9.7	Chr15: 68.83070	0.4818098	67	2.6374E-05	0	0	1
10602293	18422	40759	Ott	ovary testis tran	ChrX: 148.188520	5.7004706	11.3	Chr12: 27.82284	0.4817774	67	2.6413E-05	0.30742	-0.0189157	0.926924
10566302	258247	66155	Olfr645	olfactory recept	Chr7: 104.084131	6.7784941	10.1	Chr7: 36.449783	0.4817421	67	2.6456E-05	0	0.4753043	0.01413
10341919			Affy_10341919	Affymetrix Mous	ChrUn: 1.000000	8.625847	12.8	Chr8: 118.38069	-0.4816907	67	2.6519E-05	0	0	1
10345099	68002	32661	Sdhaf4	succinate dehyd	Chr1: 24.005505	7.3431412	14	Chr7: 70.164957	0.481655	67	2.6563E-05	0.27799	0	1
10495987	435755		Gm5712	predicted gene 5	Chr3: 129.433673	6.2081059	15.5	Chr7: 58.449542	0.4816114	67	2.6616E-05	0.26567	0	1
10340367			Affy_10340367	Affymetrix Mous	ChrUn: 1.000000	6.8184	10.2	Chr1: 187.59825	-0.4815995	67	2.6631E-05	0	0	1
10368343	11846	29	Arg1	arginase, liver	Chr10: 24.915221	6.7668706	10.9	ChrX: 10.699902	0.4815633	67	2.6675E-05	0.60224	0.5836707	0.001747
10462846	546726	28089	Cyp26c1	cytochrome P45	Chr19: 37.685680	7.4462	17.5	Chr7: 73.746984	0.481561	67	2.6678E-05	0.40293	0	1
10339938			Affy_10339938	Affymetrix Mous	ChrUn: 1.000000	6.4852941	9.4	Chr7: 67.469060	-0.4815503	67	2.6691E-05	0	0	1
10440651	239932	88056	Krtap24-1	keratin associate	Chr16: 88.611490	6.4460588	14.2	Chr4: 67.18202	0.4815294	67	2.6717E-05	0	0	1
10601813	331531	41829	AV320801	expressed sequ	ChrX: 135.494588	6.1840706	8.3	Chr15: 63.39226	0.4813778	67	2.6903E-05	0	0.0222228	0.91419
10414697			Affy_10414697	M.musculus mR	Chr14: 52.427967	7.8562235	14.2	Chr8: 118.38069	0.4813589	67	2.6927E-05	0	0	1
10358272	16876	7816	Lhx9	LIM homeobox p	Chr1: 138.825186	7.1246706	11.7	Chr13: 117.5720	0.4813203	67	2.6975E-05	0.33684	0.1423123	0.487991
10486935	67578	12155	Patl2	protein associate	Chr2: 122.120108	7.1599059	11.6	Chr1: 173.64555	0.4811844	67	2.7144E-05	0.23713	0.2592795	0.200877
10338376			Affy_10338376	Affymetrix Mous	ChrUn: 1.000000	6.9321529	12.3	Chr6: 23.242013	-0.4811742	67	2.7156E-05	0	0	1
10343392			Affy_10343392	Affymetrix Mous	ChrUn: 1.000000	6.7312941	12.4	Chr6: 95.073515	-0.4811426	67	2.7196E-05	0	0	1
10399634	100043371	85963	LOC100043371		Chr12: 21.730222	8.3836824	12	Chr12: 26.03477	0.4810886	67	2.7263E-05	0	0	1
10344353			Affy_10344353	Affymetrix Mous	ChrUn: 1.000000	8.7717412	12.5	Chr7: 68.323956	-0.4810438	67	2.732E-05	0	0	1
10599251	382209	83502	Rhox3a	reproductive hor	ChrX: 37.249919	5.4595647	8.3	Chr5: 23.152676	0.4810342	67	2.7332E-05	0.37333	0	1
10599116	210457	66330	Gm4764	predicted pseud	ChrX: 35.801194	6.5911412	19.2	Chr1: 15.981339	0.4809752	67	2.7406E-05	0	0	1
10601324	75064	105688	Zcchc13	zinc finger, CCH	ChrX: 103.630586	6.8090118	7.5	Chr15: 3.236252	0.4809488	67	2.7439E-05	0	0	1
10341001			Affy_10341001	Affymetrix Mous	ChrUn: 1.000000	5.9427177	9.4	Chr14: 72.30028	-0.4809032	67	2.7496E-05	0	0	1
10371134	209047	77068	Gipc3	GIPC PDZ doma	Chr10: 81.337762	8.2714941	10.8	Chr8: 118.38069	0.4808649	67	2.7545E-05	0.2907	-0.2299418	0.25846
10341589			Affy_10341589	Affymetrix Mous	ChrUn: 1.000000	6.8252236	9.7	Chr7: 71.410581	-0.4808498	67	2.7564E-05	0	0	1
10551907	54631	20974	Nphs1	nephrosis 1 hom	Chr7: 30.459725	7.2256588	16.5	Chr7: 73.746984	0.4808271	67	2.7593E-05	0.44372	-0.0274981	0.893923
10505614	22178	464	Tyrp1	tyrosinase-relate	Chr4: 80.834230	6.5067412	9.2	Chr15: 38.65504	0.4807889	67	2.7641E-05	0.35788	0.1826644	0.371777
10495097	11542	550	Adora3	adenosine A3 re	Chr3: 105.870858	6.3545059	15.7	Chr8: 117.54501	0.4807719	67	2.7663E-05	0.48266	-0.1636714	0.424332
10465881	24115	37895	Best1	bestrophin 1	Chr19: 9.985174	6.6711529	12.3	Chr7: 58.449542	0.4807581	67	2.768E-05	0.42226	-0.2087707	0.306069
10431812	54003	4488	Nell2	NEL-like 2 (chicl	Chr15: 95.075230	7.0868823	16.4	Chr8: 118.38069	0.4807134	67	2.7737E-05	0.48301	0.0117929	0.954404
10603228			Affy_10603228	predicted pseud	ChrX: 3.231668	6.927353	8.7	Chr8: 95.747331	0.4806663	67	2.7797E-05	0	0	1
10432139	239652	17548	Zfp641	zinc finger prote	Chr15: 98.285588	7.9745176	9.2	Chr7: 134.83441	0.4806515	67	2.7816E-05	0	-0.0324453	0.874974
10388994	100038598		Gm10386	predicted gene 1	Chr11: 79.992433	7.7689177	6.5	Chr2: 179.21483	0.4806419	67	2.7828E-05	0	0	1
10341781			Affy_10341781	Affymetrix Mous	ChrUn: 1.000000	6.6143176	11.4	Chr19: 7.273188	-0.480526	67	2.7976E-05	0	0	1
10339709			Affy_10339709	Affymetrix Mous	ChrUn: 1.000000	8.6579529	10.3	Chr7: 68.323956	-0.4804775	67	2.8038E-05	0	0	1
10343266			Affy_10343266	Affymetrix Mous	ChrUn: 1.000000	7.5252353	8.3	Chr8: 117.54501	-0.4804727	67	2.8045E-05	0	0	1
10347781	241134	18239	9430031J16Rik	RIKEN cDNA 94	Chr1: 81.077317	6.4529647	13.5	Chr16: 29.16202	0.4804216	67	2.811E-05	0	0.0595011	0.772787
10488322	241694		Ralgapa2	Ral GTPase acti	Chr2: 146.260376	9.3019294	9.9	Chr6: 24.222458	-0.4804031	67	2.8134E-05	0.30756	0.0998581	0.627426
10369485	12817	22421	Col13a1	collagen, type X	Chr10: 61.838236	8.0922706	9.6	Chr7: 67.469060	0.4803875	67	2.8154E-05	0.55421	-0.0527678	0.797944
10434670	666421		Gm8095	predicted gene 8	Chr16: 22.236919	9.7239177	9.5	Chr2: 176.00000	0.4803804	67	2.8163E-05	0	0	1
10371740	320091	66599	Ano4	anoctamin 4	Chr10: 88.948994	5.7444	14	Chr7: 74.522856	0.4803552	67	2.8196E-05	0.17047	0	1
10605510			Affy_10605510	Affymetrix Mous	ChrX: 79.230171	7.8836118	11.4	Chr7: 71.410581	0.4803268	67	2.8233E-05	0	0	1
10412380			Affy_10412380	Affymetrix Mous	Chr13: 117.457845	7.6074353	11.7	Chr1: 85.791403	0.480289	67	2.8282E-05	0	0	1
10584862	399548	18384	Scn4b	sodium channel,	Chr9: 45.138753	6.8507647	11.7	Chr7: 134.83441	0.4802566	67	2.8324E-05	0.34487	-0.1627022	0.427118
10571599			Affy_10571599	Affymetrix Mous	Chr8: 45.816838	6.2837882	13.6	Chr19: 10.67054	-0.4802411	67	2.8344E-05	0	0	1
10591853	57246	32476	Tbx20	T-box 20	Chr9: 24.723182	6.7204706	10	Chr7: 24.502399	0.4801521	67	2.8459E-05	0.41411	0.0220291	0.914936
10586140	235435	70710	Lctl	lactase-like	Chr9: 64.117147	6.7017882	11	Chr7: 135.31453	0.480142	67	2.8473E-05	0.2524	0.2126724	0.296911
10539692	21802	2431	Tgfa	transforming gro	Chr6: 86.195416	8.8613765	9.2	Chr19: 52.56230	0.4800641	67	2.8574E-05	0.49722	0.1877281	0.358434
10602277	18422	40759	Ott	ovary testis tran	ChrX: 147.789728	5.6831412	9.4	Chr12: 27.82284	0.4800507	67	2.8592E-05	0.30742	-0.0189157	0.926924
10568298	56216	69375	Stx1b	syntaxin 1B	Chr7: 127.806842	7.8349412	11.4	Chr7: 67.469060	0.4799742	67	2.8692E-05	0.27193	0	1

10461143	12669	20189	Chrm1	cholinergic rece	Chr19: 8.664021	8.3004353	11.9	Chr7: 37.923912	0.4798777	67	2.8819E-05	0.35865	0.533336	0.005021
10511062	69671	18680	Tmem52	transmembrane	Chr4: 155.469134	8.2233764	9.9	Chr7: 73.304970	0.4798482	67	2.8858E-05	0	-0.0646827	0.753577
10376239	21454	5656	Tcp1	t-complex protei	Chr11: 55.482694	7.9164353	13.7	Chr15: 37.46241	-0.4797768	67	2.8952E-05	0.43912	-0.2095193	0.304298
10372796	15364	2602	Hmga2	high mobility grc	Chr10: 120.361275	7.4439529	12.4	Chr2: 179.31687	0.4797343	67	2.9009E-05	0.53633	-0.11044	0.591207
10339425			Affy_10339425	Affymetrix Mous	ChrUn: 1.000000	5.2093765	10.9	Chr4: 140.84469	-0.4797018	67	2.9052E-05	0	0	1
10343192			Affy_10343192	Affymetrix Mous	ChrUn: 1.000000	6.1431176	11.1	Chr12: 9.742519	-0.4796634	67	2.9103E-05	0	0	1
10345571	12790	994	Cnga3	cyclic nucleotide	Chr1: 37.219261	6.8798118	8.3	Chr4: 151.28059	0.4796247	67	2.9154E-05	0.35157	0.2869694	0.155201
10576189			Affy_10576189	Affymetrix Mous	Chr8: 122.883594	6.2536471	14.8	Chr7: 71.410581	-0.4796093	67	2.9175E-05	0	0	1
10593245	57014	38131	Htr3b	5-hydroxytryptar	Chr9: 48.935008	6.8151294	14.7	Chr7: 36.955819	0.4796068	67	2.9178E-05	0.37586	0.1399759	0.495234
10338879			Affy_10338879	Affymetrix Mous	ChrUn: 1.000000	7.6706471	11.5	Chr15: 41.49812	-0.4793864	67	2.9473E-05	0	0	1
10343303			Affy_10343303	Affymetrix Mous	ChrUn: 1.000000	6.5222823	11.7	Chr16: 27.06287	-0.4791709	67	2.9765E-05	0	0	1
10339300			Affy_10339300	Affymetrix Mous	ChrUn: 1.000000	9.1871412	10	Chr17: 66.43619	0.4790878	67	2.9878E-05	0	0	1
10409616	20745	80193	Spock1	sparc/osteonecti	Chr13: 57.421195	7.151247	9	Chr7: 71.696966	0.4790474	67	2.9933E-05	0.55376	0.0119846	0.953664
10340626			Affy_10340626	Affymetrix Mous	ChrUn: 1.000000	5.9661882	12.2	Chr7: 67.469060	-0.4788989	67	3.0136E-05	0	0	1
10342871			Affy_10342871	Affymetrix Mous	ChrUn: 1.000000	8.1543882	10.4	Chr14: 64.70589	-0.478897	67	3.0139E-05	0	0	1
10495528	791369		Gm9889	predicted gene 9	Chr3: 115.715150	7.6927059	8.9	Chr1: 40.866894	0.4788601	67	3.0189E-05	0	0	1
10342680			Affy_10342680	Affymetrix Mous	ChrUn: 1.000000	7.7726	11.5	Chr14: 54.36809	-0.478791	67	3.0284E-05	0	0	1
10461820	258628	45021	Olfr1489	olfactory recepto	Chr19: 13.633113	5.2079294	10.5	Chr1: 189.17028	0.4787632	67	3.0323E-05	0	-0.1134678	0.581012
10346448	71872	70273	Aox4	aldehyde oxidas	Chr1: 58.210397	7.3298353	19.5	Chr8: 121.00000	0.4787471	67	3.0345E-05	0.47342	-0.1148383	0.576423
10356406	53972	75120	Ngef	neuronal guanin	Chr1: 87.476829	7.5897765	20.2	Chr7: 67.469060	0.4786694	67	3.0453E-05	0.2257	0.2161416	0.288914
10489471	17183	2844	Matn4	matrilin 4	Chr2: 164.389398	6.9207882	12.9	Chr6: 24.222458	0.4786557	67	3.0472E-05	0.45281	-0.1471837	0.473063
10395365	23795	4674	Agr2	anterior gradient	Chr12: 35.992907	6.2451412	13	Chr7: 58.449542	0.478509	67	3.0676E-05	0.51721	0.0131243	0.949263
10592593	21683	3955	Tecta	tectorin alpha	Chr9: 42.329622	6.8392353	17.8	Chr7: 39.894396	0.4785061	67	3.068E-05	0.41144	-0.0377123	0.854874
10344198			Affy_10344198	Affymetrix Mous	ChrUn: 1.000000	6.6538353	11.4	Chr15: 44.37521	-0.4784899	67	3.0703E-05	0	0	1
10369250			Affy_10369250	10 days neonate	Chr10: 58.812574	7.7157294	7.7	Chr4: 151.28059	0.4783958	67	3.0834E-05	0	0	1
10532630	320129	21072	Adrbk2	adrenergic recep	Chr5: 112.910478	8.9606941	8	Chr2: 176.00000	-0.4783696	67	3.0871E-05	0.50023	-0.1670512	0.414695
10341716			Affy_10341716	Affymetrix Mous	ChrUn: 1.000000	6.9362117	10.5	Chr12: 3.200000	-0.4782513	67	3.1038E-05	0	0	1
10480676	14810	7187	Grin1	glutamate recep	Chr2: 25.291181	7.1882471	17.9	Chr19: 10.70841	0.4782328	67	3.1064E-05	0.34128	0.2239257	0.27147
10608382	385550		Srsy	serine-rich, secr	ChrY: 19.643739	5.1390706	8.2	Chr1: 187.57135	0.4781416	67	3.1193E-05	0	0	1
10380025	83560	12838	Tex14	testis expressed	Chr11: 87.427681	6.5615529	12.7	Chr1: 192.15497	0.4780551	67	3.1316E-05	0.40471	-0.0138846	0.946328
10495518	229759	17103	Olfm3	olfactomedin 3	Chr3: 114.904133	6.3030941	13.2	Chr7: 24.937915	0.4778837	67	3.1561E-05	0.38827	0.1105421	0.590862
10343077			Affy_10343077	Affymetrix Mous	ChrUn: 1.000000	6.9349412	12.3	Chr14: 55.62268	-0.4778718	67	3.1578E-05	0	0	1
10341770			Affy_10341770	Affymetrix Mous	ChrUn: 1.000000	9.4185647	9.6	Chr5: 24.065030	-0.4777367	67	3.1772E-05	0	0	1
10452609	240131	33184	Lrrc30	leucine rich repe	Chr17: 67.630965	7.4844941	12	Chr6: 121.48663	0.4777116	67	3.1808E-05	0	-0.0427464	0.835745
10338766			Affy_10338766	Affymetrix Mous	ChrUn: 1.000000	9.0139883	7.9	Chr8: 117.54501	-0.4776729	67	3.1864E-05	0	0	1
10436773	665661		Gm7735	predicted gene 7	Chr16: 89.169490	7.6247647	9.8	Chr5: 143.51344	0.4775332	67	3.2067E-05	0	0	1
10341202			Affy_10341202	Affymetrix Mous	ChrUn: 1.000000	7.0135412	13.4	ChrX: 38.899709	-0.477523	67	3.2081E-05	0	0	1
10530666	16924	7819	Lnx1	ligand of numb-p	Chr5: 74.592447	6.9698706	9.7	Chr6: 24.222458	0.4774747	67	3.2152E-05	0.30882	-0.2089654	0.305608
10362273	77220	14175	Tmem200a	transmembrane	Chr10: 26.078255	7.5974706	12.4	Chr7: 70.848220	0.4774016	67	3.2258E-05	0	0	1
10345911	666644		Gm8211	predicted gene 8	Chr1: 43.270693	6.1197294	20.8	Chr7: 135.31453	0.4773405	67	3.2348E-05	0	0	1
10599562	75404	17012	Arhgap36	Rho GTPase ac	ChrX: 49.470563	6.3583412	10.6	Chr7: 56.124439	0.4773207	67	3.2377E-05	0	0	1
10340682			Affy_10340682	Affymetrix Mous	ChrUn: 1.000000	6.8878706	10.5	Chr2: 72.401799	-0.4773114	67	3.2391E-05	0	0	1
10343120			Affy_10343120	Affymetrix Mous	ChrUn: 1.000000	5.7379647	9.9	Chr2: 179.31687	-0.4772624	67	3.2463E-05	0	0	1
10577824	270035		Letm2	leucine zipper-E	Chr8: 25.578494	8.5167176	14.2	Chr8: 24.907439	-0.4772261	67	3.2516E-05	0	-0.0377038	0.854906
10608683			Affy_10608683	Affymetrix Mous	ChrUn: 1.000000	5.4674471	11.4	Chr17: 68.77070	0.477113	67	3.2683E-05	0	0	1
10340953			Affy_10340953	Affymetrix Mous	ChrUn: 1.000000	5.9197412	10.5	Chr15: 44.37521	-0.4769921	67	3.2862E-05	0	0	1
10455599			Affy_10455599	Affymetrix Mous	Chr18: 48.626849	8.1863529	13.2	Chr4: 62.650156	0.4769863	67	3.2871E-05	0	0	1
10423894	75766	12769	Tm7sf4	transmembrane	Chr15: 39.745932	6.3256	8.8	Chr18: 84.12626	0.4769848	67	3.2873E-05	0.5432	-0.1121499	0.58544
10392791	72014	46324	Btbd17	BTB (POZ) dom	Chr11: 114.790669	8.7742118	14.9	Chr7: 37.923912	0.4767811	67	3.3178E-05	0	0	1
10464070	53611	39963	Vti1a	vesicle transport	Chr19: 55.316057	9.1755882	15.5	Chr7: 67.469060	-0.4767447	67	3.3232E-05	0.34528	-0.1531883	0.454991
10594048	320563	10833	Islr2	immunoglobulin	Chr9: 58.196297	7.1482706	11.6	Chr15: 80.25285	0.476718	67	3.3273E-05	0.32543	-0.0708984	0.730121
10483561	70231	9180	Gorasp2	golgi reassembly	Chr2: 70.661248	8.1482706	15.8	Chr7: 72.907530	0.4767172	67	3.3274E-05	0.22277	-0.2235915	0.272204
10577152	102220		E330037G11Rik	RIKEN cDNA E3	Chr8: 13.264767	4.9228941	8.1	Chr4: 151.28059	-0.4765759	67	3.3487E-05	0	0	1
10391273	15171	1166	Hcrt	hypocretin	Chr11: 100.761693	7.7866824	9.2	Chr4: 140.84469	0.476482	67	3.3629E-05	0.42037	0.0895897	0.663396
10563350	14344	10325	Fut2	fucosyltransfera	Chr7: 45.648595	7.1478588	9.2	Chr14: 81.38077	0.4764738	67	3.3642E-05	0.50626	-0.0902769	0.660965
10519346	77036	87717	1700109H08Rik	RIKEN cDNA 17	Chr5: 3.571673	7.5067882	11.4	Chr5: 24.311463	-0.4764575	67	3.3667E-05	0	-0.0885218	0.66718
10583314	75316	11472	Taf1d	TATA box bindir	Chr9: 15.315522	9.758	11.7	Chr14: 64.70589	-0.4762435	67	3.3994E-05	0	0	1
10514791	100102	17790	Pcsk9	proprotein conve	Chr4: 106.442342	7.9239411	11.3	Chr15: 76.00000	0.476226	67	3.4021E-05	0.55016	0.6853364	0.000112
10370519	257883	72920	Olfr1357	olfactory recepto	Chr10: 78.611594	6.2576471	15.3	Chr7: 67.469060	0.4761939	67	3.407E-05	0	0.0569087	0.782447
10344803	211660	23487	Cspp1	centrosome and	Chr1: 10.082253	8.3836118	10	Chr7: 68.323956	-0.4761285	67	3.4171E-05	0.28012	-0.1315918	0.521662
10576901	20494	390	Slc10a2	solute carrier far	Chr8: 5.085623	5.7613294	9.1	Chr7: 58.449542	0.4760779	67	3.4249E-05	0.52649	0.2773976	0.170065
10338641			Affy_10338641	Affymetrix Mous	ChrUn: 1.000000	7.8599529	7.8	Chr13: 54.84281	-0.4760652	67	3.4268E-05	0	0	1
10586126			Affy_10586126	Affymetrix Mous	Chr9: 63.027560	7.8661294	12.4	Chr7: 73.746984	0.4760113	67	3.4352E-05	0	0	1
10531866	26414	56439	Mapk10	mitogen-activate	Chr5: 102.907982	5.6325177	12.1	Chr4: 155.22567	0.4759671	67	3.442E-05	0.49859	0.0212192	0.918053
10599092			Affy_10599092	predicted pseud	ChrX: 32.247062	7.0425529	9	Chr8: 95.747331	0.4759632	67	3.4427E-05	0	0	1
10342666			Affy_10342666	Affymetrix Mous	ChrUn: 1.000000	6.7228706	9	Chr18: 49.94693	-0.4758988	67	3.4527E-05	0	0	1
10471333			Affy_10471333	ncrna:snoRNA c	Chr2: 32.221970	7.6627647	12	Chr15: 37.46241	-0.4758952	67	3.4532E-05	0	0	1
10471335			Affy_10471335	ncrna:snoRNA c	Chr2: 32.225653	7.6627647	12	Chr15: 37.46241	-0.4758952	67	3.4532E-05	0	0	1
10341782			Affy_10341782	Affymetrix Mous	ChrUn: 1.000000	7.1030471	9.2	Chr7: 67.469060	-0.475785	67	3.4704E-05	0	0	1
10338921			Affy_10338921	Affymetrix Mous	ChrUn: 1.000000	7.1620588	12	Chr7: 70.164957	-0.4757542	67	3.4753E-05	0	0	1
10341111			Affy_10341111	Affymetrix Mous	ChrUn: 1.000000	5.9099529	10.2	Chr13: 117.6049	-0.4757306	67	3.479E-05	0	0	1
10342919			Affy_10342919	Affymetrix Mous	ChrUn: 1.000000	6.9049882	9.5	Chr1: 23.152100	-0.4756178	67	3.4967E-05	0	0	1
10341670			Affy_10341670	Affymetrix Mous	ChrUn: 1.000000	8.3334706	11.3	Chr14: 64.70589	-0.4756171	67	3.4968E-05	0	0	1
10488608	228775	10902	Trib3	tribbles homolog	Chr2: 152.337422	7.6884236	13.6	Chr7: 36.955819	0.4755603	67	3.5057E-05	0.60421	0.3919046	0.047696
10473580	258639	74192	Olfr1158	olfactory recepto	Chr2: 87.990086	5.5405294	8.6	Chr1: 85.791403	0.4755411	67	3.5088E-05	0	-0.0856597	0.677362
10566682	258042	110483	Olfr487	olfactory recepto	Chr7: 108.211583	5.9984118	11.5	Chr6: 88.577696	0.4754472	67	3.5237E-05	0	-0.0265236	0.897662
10389990	71889	56791	Epn3	epsin 3	Chr11: 94.490991	7.8264118	8.4	Chr7: 68.323956	0.4753836	67	3.5338E-05	0.31898	-0.2240076	0.27129
10407995	258528	105231	Olfr1370	olfactory recepto	Chr13: 21.072349	6.3776941	10.9	Chr15: 63.39226	0.4753005	67	3.547E-05	0	-0.12813	0.532769
10429222	70363		Fam135b	family with sequ	Chr15: 71.487411	6.6394	9.2	Chr6: 121.48663	0.4751718	67	3.5676E-05	0	0	1
10536444	114142	33482	Foxp2	forkhead box P2	Chr6: 14.901349	6.8626117	11.3	Chr15: 68.83070	0.4751174	67	3.5763E-05	0.50017	0.0182591	0.929454
10342995			Affy_10342995	Affymetrix Mous	ChrUn: 1.000000	6.8282706	13.5	Chr7: 68.323956	-0.4749535	67	3.6028E-05	0	0	1
10382409	286942	17709	Kif19a	kinesin family m	Chr11: 114.765524	7.6842353	11.1	Chr7: 69.51704	0.4749458	67	3.604E-05	0.38205	0	1
10445877	628926		Gm16489	predicted gene 1	Chr17: 51.850239	7.9533412	15.4	Chr7: 70.848220	-0.4748824	67	3.6143E-05	0	0	1
10421737	21943	2744	Tnfsf11	tumor necrosis f	Chr14: 78.277446	9.0515294	14.8	Chr6: 24.222458	0.4747741	67	3.6319E-05	0.41832	-0.0542682	0.79232
10465411	20521	56442	Slc22a12	solute carrier far	Chr19: 6.465196	7.9476471	9	Chr2: 179.21483	0.4747052	67	3.6432E-05	0.40139	-0.0719984	0.726699
10571824	547103		Gm10674	predicted gene 1	Chr8: 55.122755	8.1526	11.3	Chr8: 95.747331	0.4746967	67	3.6446E-05	0	0	1
10341088			Affy_10341088	Affymetrix Mous	ChrUn: 1.000000	5.6624588	11.2	Chr15: 68.83070	-0.4746211	67	3.657E-05	0	0	1
10555197	17760	7850	Mtap6	microtubule-ass	Chr7: 99.267447	7.3510353	10.5	Chr6: 24.108037	0.4745511	67	3.6685E-05	0.60295	-0.0863152	0.675025
10562291	494519	83171	Abpd	androgen bindin	Chr7: 33.364343	6.2254	11.2	Chr8: 95.747331	0.4745435	67	3.6697E-05	0.21672	-0.1465453	0.475006
10341846			Affy_10341846	Affymetrix Mous	ChrUn: 1.000000	7.8574118	12.1	Chr14: 55.62268	-0.4745139	67	3.6746E-05	0	0	1
10469568	74169		1810010K12Rik	RIKEN cDNA 18	Chr2: 19.452470	8.7411177	12.4	Chr8: 95.747331	0.4744885	67	3.6788E-05	0	0.0166825	0.935533
10380862	19049	12972	Ppp1r1b	protein phospha	Chr11: 98.348738	8.0064	12.5	Chr7: 71.696966	0.4744477	67	3.6856E-05	0.4863	-0.0540597	0.793101

10424772	432964	87386	K230010J24Rik	RIKEN cDNA K2	Chr15: 76.009888	8.2963176	13	Chr2: 179.08869	0.4744145	67	3.6911E-05	0	0	1
10577645	209176	48830	Ido2	indoleamine 2,3	Chr8: 24.532454	7.4163294	11.8	Chr2: 179.31687	0.4743959	67	3.6941E-05	0.54113	0	1
10593953	235416	11047	Lman1l	lectin, mannose-	Chr9: 57.607033	7.733847	9.5	Chr7: 39.677599	0.4743932	67	3.6946E-05	0	-0.0933067	0.650286
10361078	68972	45949	Tatdn3	TatD DNase dor	Chr1: 191.046108	8.2349882	8.7	Chr2: 107.15380	-0.4742695	67	3.7151E-05	0	-0.328593	0.101218
10422387	239283	25878	Oxgr1	oxoglutarate (alp	Chr14: 120.019585	6.1148118	11.2	Chr9: 13.430542	0.4742356	67	3.7208E-05	0.41588	-0.0838953	0.683667
10340579			Affy_10340579	Affymetrix Mous	ChrUn: 1.000000	8.0433765	7.5	Chr8: 121.00000	-0.4742055	67	3.7258E-05	0	0	1
10341726			Affy_10341726	Affymetrix Mous	ChrUn: 1.000000	5.9018235	9.4	Chr7: 64.892730	-0.4741947	67	3.7276E-05	0	0	1
10528815	381622	69402	5031410I06Rik	RIKEN cDNA 50	Chr5: 26.098668	6.347153	8.2	Chr15: 102.3604	0.4741057	67	3.7425E-05	0	0.0069749	0.973024
10481329	54422	81871	Barhl1	BarH-like 1 (Dro	Chr2: 28.907673	7.4939176	7.7	Chr2: 179.31687	0.4740658	67	3.7492E-05	0.40389	0.3340437	0.09535
10383055	12416	7256	Cbx2	chromobox hom	Chr11: 119.023029	8.4547883	10.3	Chr2: 178.97763	0.4740313	67	3.755E-05	0.34282	0.3308508	0.098756
10341707			Affy_10341707	Affymetrix Mous	ChrUn: 1.000000	7.5788941	12.4	Chr15: 102.3604	-0.4739688	67	3.7655E-05	0	0	1
10393801	66431	49831	1810049H13Rik	RIKEN cDNA 18	Chr11: 120.456604	7.0244823	11.5	Chr16: 31.59803	0.4739067	67	3.776E-05	0	0.1723017	0.399966
10382328	20682	294	Sox9	SRY-box contair	Chr11: 112.782224	7.8846235	8.6	Chr6: 16.982017	0.4738762	67	3.7812E-05	0.33255	-0.0278175	0.892697
10373695	50929	9669	Il22	interleukin 22	Chr10: 118.204805	6.5474706	9.3	Chr12: 92.56802	0.4738525	67	3.7852E-05	0.46704	0.2813455	0.163818
10339801			Affy_10339801	Affymetrix Mous	ChrUn: 1.000000	8.4013059	10.2	Chr8: 117.54501	-0.4738506	67	3.7855E-05	0	0	1
10548829	14917	3641	Gucy2c	guanylate cyclas	Chr6: 136.697285	6.8506353	15.1	Chr2: 179.21483	0.4736845	67	3.8138E-05	0.54899	-0.0917564	0.655742
10341253			Affy_10341253	Affymetrix Mous	ChrUn: 1.000000	11.306	12.4	Chr7: 68.215797	0.4736622	67	3.8176E-05	0	0	1
10339633			Affy_10339633	Affymetrix Mous	ChrUn: 1.000000	6.9913177	10.7	Chr7: 64.892730	-0.4735329	67	3.8397E-05	0	0	1
10339021			Affy_10339021	Affymetrix Mous	ChrUn: 1.000000	6.8626588	11.5	Chr10: 57.75246	-0.473531	67	3.8401E-05	0	0	1
10361509	64009	52329	Syne1	synaptic nuclear	Chr10: 5.021566	8.7684941	14	Chr15: 102.3604	-0.4734084	67	3.8612E-05	0.37681	0.0971596	0.636803
10474972	69065	11470	Chac1	ChaC, cation tra	Chr2: 119.351256	8.0642824	10.8	Chr8: 121.00000	0.4733839	67	3.8654E-05	0.46997	0.0224977	0.913133
10339772			Affy_10339772	Affymetrix Mous	ChrUn: 1.000000	9.2862353	11.5	Chr15: 41.49812	-0.4732348	67	3.8912E-05	0	0	1
10338199			Affy_10338199	Affymetrix Mous	ChrUn: 1.000000	7.0581882	12	Chr14: 55.62268	-0.4731567	67	3.9048E-05	0	0	1
10456519			Affy_10456519	Affymetrix Mous	Chr18: 69.256309	6.5776118	10.8	Chr17: 65.06749	0.4731134	67	3.9124E-05	0	0	1
10459747	225724	2058	Mapk4	mitogen-activate	Chr18: 73.928486	7.3388588	11.1	Chr8: 117.54501	0.4730503	67	3.9234E-05	0.45312	-0.0701105	0.733606
10356018	620899		Gm6189	predicted gene 6	Chr1: 80.383224	7.3603647	11	Chr18: 65.60970	0.4729869	67	3.9346E-05	0	0	1
10397575	18191	83225	Nrxn3	neurexin 3	Chr12: 88.794977	6.7651883	13.1	Chr19: 53.38588	0.4729417	67	3.9425E-05	0.41068	0.062433	0.761901
10587782	22774	32075	Zic4	zinc finger prote	Chr9: 91.368972	7.0084	13.1	Chr7: 70.84822	0.4729205	67	3.9463E-05	0.34546	0.5152942	0.007059
10470158	620709	45707	Lcn6	lipocalin 6	Chr2: 25.676826	6.7461294	12.9	Chr7: 26.134324	0.4728892	67	3.9518E-05	0	0	1
10343663			Affy_10343663	Affymetrix Mous	ChrUn: 1.000000	6.7346353	13.2	Chr12: 28.73883	-0.4728195	67	3.9641E-05	0	0	1
10342597			Affy_10342597	Affymetrix Mous	ChrUn: 1.000000	7.364447	11.4	Chr10: 53.74314	-0.4727971	67	3.968E-05	0	0	1
10537828	258366	74166	Olfr434	olfactory recepto	Chr6: 43.216883	6.5540706	13	Chr4: 19.726310	0.4727722	67	3.9725E-05	0	-0.0728723	0.723509
10341484			Affy_10341484	Affymetrix Mous	ChrUn: 1.000000	4.9393176	9.9	Chr2: 109.98983	-0.4727467	67	3.977E-05	0	0	1
10442968	50782	77719	Rgs11	regulator of G-pi	Chr17: 26.202976	7.6099059	11.9	Chr7: 38.109850	0.4726503	67	3.9941E-05	0.25939	-0.0126632	0.951044
10339909			Affy_10339909	Affymetrix Mous	ChrUn: 1.000000	6.4121529	11.4	Chr7: 73.340512	-0.4725455	67	4.0128E-05	0	0	1
10503709	100038651		D130062J21Rik	RIKEN cDNA D1	Chr4: 32.243733	9.0516353	12.1	Chr7: 68.323956	-0.4725144	67	4.0184E-05	0	0	1
10595392	83603	41488	Elovl4	elongation of ve	Chr9: 83.778692	6.8756471	9.9	Chr15: 102.3604	0.4725018	67	4.0206E-05	0.53285	-0.0687318	0.738664
10386110	15110	3545	Hand1	heart and neural	Chr11: 57.828712	8.2298706	9.9	Chr7: 72.907530	0.4723717	67	4.044E-05	0.40683	0.3019817	0.133786
10426244	60597	8201	Mapk8ip2	mitogen-activate	Chr15: 89.454130	7.3335882	11.9	Chr5: 108.79386	0.4723216	67	4.053E-05	0.34844	0.0179463	0.93066
10339324			Affy_10339324	Affymetrix Mous	ChrUn: 1.000000	8.1837529	8.3	Chr16: 38.37808	-0.472273	67	4.0618E-05	0	0	1
10504988	258857	17418	Olfr275	olfactory recepto	Chr4: 52.825399	6.8908588	10.8	Chr2: 72.401799	0.4722626	67	4.0637E-05	0	-0.1816743	0.374419
10528821	434689	69402	Gm10220	predicted gene 1	Chr5: 26.116612	6.3649647	8.7	Chr8: 95.747331	0.4722432	67	4.0672E-05	0	0	1
10589848	22221	8435	Ubp1	upstream bindin	Chr9: 113.931169	10.979388	12	Chr11: 108.7137	-0.4722249	67	4.0705E-05	0.50118	0.0587779	0.775478
10472321	94229	23340	Slc4a10	solute carrier fa	Chr2: 62.046563	6.1296706	12.9	Chr7: 73.340512	0.4722071	67	4.0738E-05	0.3837	-0.0702091	0.733245
10490129	12162	20410	Bmp7	bone morphoger	Chr2: 172.869686	7.6778117	9.8	Chr7: 68.568535	0.4721865	67	4.0775E-05	0.42727	-0.0403538	0.844826
10505374	373864	69400	Col27a1	collagen, type X	Chr4: 63.215412	8.6342471	12.5	Chr7: 36.955819	0.4721324	67	4.0873E-05	0.3696	0.3626934	0.068607
10340634			Affy_10340634	Affymetrix Mous	ChrUn: 1.000000	6.1584471	10.5	Chr7: 6.011490	-0.4721311	67	4.0876E-05	0	0	1
10378964	20370	10948	Sez6	seizure related g	Chr11: 77.930839	7.4620824	13.8	Chr7: 36.955819	0.472107	67	4.0919E-05	0.48337	0.0532781	0.79603
10339744			Affy_10339744	Affymetrix Mous	ChrUn: 1.000000	6.3668588	9.3	Chr2: 179.27783	-0.472037	67	4.1047E-05	0	0	1
10338291			Affy_10338291	Affymetrix Mous	ChrUn: 1.000000	6.9581412	9.1	Chr7: 71.410581	-0.4719908	67	4.1132E-05	0	0	1
10341182			Affy_10341182	Affymetrix Mous	ChrUn: 1.000000	7.4610118	10.5	Chr14: 64.70589	-0.4719345	67	4.1235E-05	0	0	1
10431113	29859	49378	Sult4a1	sulfotransferase	Chr15: 84.076097	7.1323059	25.5	Chr15: 84.03748	0.4718648	67	4.1363E-05	0.3214	-0.0349559	0.865383
10343702			Affy_10343702	Affymetrix Mous	ChrUn: 1.000000	6.3147647	11	Chr7: 67.469060	-0.4717962	67	4.1489E-05	0	0	1
10340851			Affy_10340851	Affymetrix Mous	ChrUn: 1.000000	7.9926706	10.8	Chr8: 117.54501	-0.4717424	67	4.1588E-05	0	0	1
10342749			Affy_10342749	Affymetrix Mous	ChrUn: 1.000000	7.0359176	25.1	Chr1: 171.19304	-0.4717319	67	4.1608E-05	0	0	1
10451291	108114	21328	Slc22a7	solute carrier fa	Chr17: 46.432183	6.7076824	10.2	Chr5: 110.38594	0.471631	67	4.1795E-05	0.42333	0.3071761	0.1269
10341928			Affy_10341928	Affymetrix Mous	ChrUn: 1.000000	6.9227059	10.6	Chr14: 64.70589	-0.4716064	67	4.1841E-05	0	0	1
10364149	20203	4567	S100b	S100 protein, be	Chr10: 76.253853	6.901247	9.9	Chr8: 121.00000	0.4715756	67	4.1898E-05	0.51865	-0.0807534	0.694945
10339507			Affy_10339507	Affymetrix Mous	ChrUn: 1.000000	6.8502823	13.8	Chr14: 55.62268	-0.4715715	67	4.1906E-05	0	0	1
10438040	18316	122780	Olfr19	olfactory recepto	Chr16: 16.673050	5.8461412	12.9	Chr2: 179.08869	0.4715685	67	4.1911E-05	0.13793	0.2443101	0.229051
10338224			Affy_10338224	Affymetrix Mous	ChrUn: 1.000000	7.9774823	9.5	Chr7: 68.323956	-0.4715544	67	4.1937E-05	0	0	1
10338176			Affy_10338176	Affymetrix Mous	ChrUn: 1.000000	10.707341	11.1	Chr8: 118.38069	-0.4714774	67	4.2081E-05	0	0	1
10503107	70720		6330407A03Rik	RIKEN cDNA 63	Chr4: 3.715782	9.4184471	10.5	Chr8: 117.54501	-0.4714352	67	4.216E-05	0	-0.2026571	0.320767
10343373			Affy_10343373	Affymetrix Mous	ChrUn: 1.000000	7.3469529	13	Chr8: 121.00000	-0.4714174	67	4.2193E-05	0	0	1
10578547	234219	18357	Helt	Hey-like transcri	Chr8: 46.292039	6.634447	15.3	Chr7: 73.746984	0.4713894	67	4.2246E-05	0.26681	-0.1210464	0.555838
10338791			Affy_10338791	Affymetrix Mous	ChrUn: 1.000000	8.3765412	9	Chr11: 20.00138	-0.4713289	67	4.2359E-05	0	0	1
10499958	383891		Gm5278	predicted pseud	Chr3: 93.433197	8.4040118	11.5	Chr5: 23.184735	0.4713124	67	4.239E-05	0	0	1
10338796			Affy_10338796	Affymetrix Mous	ChrUn: 1.000000	9.4582235	13	Chr8: 118.38069	-0.4711243	67	4.2746E-05	0	0	1
10531453	320696	18560	Ccdc158	coiled-coil doma	Chr5: 92.608295	6.5808235	9.7	Chr2: 179.31687	0.4710858	67	4.2819E-05	0	0	1
10340638			Affy_10340638	Affymetrix Mous	ChrUn: 1.000000	7.8002588	15.8	Chr7: 68.215797	-0.4710542	67	4.2879E-05	0	0	1
10452082	20834	7959	Znrf4	zinc and ring fin	Chr17: 56.511248	7.5926353	9.5	Chr2: 72.401799	0.4710305	67	4.2924E-05	0.26612	-0.088615	0.66685
10347968			Affy_10347968	Affymetrix Mous	Chr1: 85.674879	8.1593294	11.5	Chr7: 68.539279	-0.4709781	67	4.3024E-05	0	0	1
10601797	331529	41829	Gm5128	predicted gene 5	ChrX: 135.373284	5.6036471	7.9	Chr12: 28.73883	0.4709387	67	4.3099E-05	0	0	1
10601805	331529	41829	Gm5128	predicted gene 5	ChrX: 135.433835	5.6036471	7.9	Chr12: 28.73883	0.4709387	67	4.3099E-05	0	0	1
10505911	242523	18477	Dmrta1	doublesex and m	Chr4: 89.688198	6.8231647	10.1	Chr14: 59.20157	0.4709352	67	4.3106E-05	0.3747	-0.0729531	0.723214
10339413			Affy_10339413	Affymetrix Mous	ChrUn: 1.000000	6.6602235	9.7	Chr15: 102.3604	-0.4708662	67	4.3238E-05	0	0	1
10568826	664857	123424	9330101J02Rik	RIKEN cDNA 93	Chr7: 139.638900	7.3534823	14.9	Chr7: 71.410581	0.4708192	67	4.3328E-05	0	-0.134917	0.5111
10523145	20309		Cxcl15	chemokine (C-X	Chr5: 90.794534	5.3827529	9.1	Chr2: 176.00000	0.470808	67	4.3349E-05	0.63714	-0.0988699	0.630854
10452085	224902	35210	Safb2	scaffold attachm	Chr17: 56.562425	8.2280588	8.7	Chr15: 30.07537	-0.470801	67	4.3363E-05	0.32521	0.2488636	0.220217
10478326	27219	8446	Sgk2	serum/glucocort	Chr2: 162.987546	7.2587882	11.1	Chr4: 154.02599	0.4707971	67	4.337E-05	0.35612	0.3700108	0.062806
10357535	18640	88554	Pfkfb2	6-phosphofructo	Chr1: 130.689182	9.0813059	10.2	Chr7: 36.760233	-0.4706763	67	4.3603E-05	0.56461	0.051154	0.804003
10447977	71682	18417	Wdr27	WD repeat doma	Chr17: 14.818672	7.0802706	8.1	Chr8: 121.00000	0.4706403	67	4.3672E-05	0	-0.0783184	0.703729
10343720			Affy_10343720	Affymetrix Mous	ChrUn: 1.000000	10.666012	13.7	Chr7: 68.323956	-0.4706267	67	4.3699E-05	0	0	1
10344807	211660	23487	Cspp1	centrosome and	Chr1: 10.085747	8.9356117	15	Chr5: 24.321400	-0.470571	67	4.3807E-05	0.28012	-0.1315918	0.521662
10342398			Affy_10342398	Affymetrix Mous	ChrUn: 1.000000	6.7857529	10.8	Chr15: 25.73208	-0.4704467	67	4.4048E-05	0	0	1
10464283	791347		Gm10007	predicted gene 1	Chr19: 58.296781	6.9783059	9.1	Chr7: 38.109850	0.4704415	67	4.4058E-05	0	0	1
10349580	18703	1984	Pigr	polymeric immur	Chr1: 130.826751	7.0368118	10.9	Chr10: 7.662485	0.4704238	67	4.4093E-05	0.5562	0.3033737	0.131915
10442327	54419	10300	Cldn6	claudin 6	Chr17: 23.679365	7.398	6.7	Chr5: 85.578195	0.4703345	67	4.4267E-05	0.48295	-0.1383728	0.500235

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Supplementary Table 6

Citations: Please see http://www.genenetwork.org/reference.html

Trait : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Males : 10420899

Database : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Males

Date : October 08, 2017

Time : 23:47 GMT

Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	Homologene II	Symbol	Description	Location (Chr: Mb)	Mean Expr	Max LR	LRS Location (Chr:	Sample r	Cas	mple	Lit Corr	Tissue r	Tissue p(r)
10420899	268756	6566	Gulo	gulonolactone (	Chr14: 65.986786	7.18581174	6.8	ChrX: 47.876769	1	67	0	1	1	1
10441753	18815	55452	Plg	plasminogen	Chr17: 12.378608	7.23436471	7	Chr8: 89.553015	0.89764	67	0	0.49549	0.89891	4.45E-10
10382189	11818	26	Apoh	apolipoprotein H	Chr11: 108.395291	6.22212941	5.3	Chr7: 144.433458	0.88938	67	0	0.64926	0.80935	5.545E-07
10435626	15233	156	Hgd	homogentisate	Chr16: 37.580221	6.90112939	6.5	Chr9: 95.329897	0.8796	67	0	0.60948	0.64381	0.0003871
10585005	11806	47900	Apoa1	apolipoprotein A	Chr9: 46.228710	7.69258821	7	ChrX: 47.876769	0.87902	67	0	0.44199	0.666	0.0002041
10433988	15160	36018	Serpind1	serine (or cyste	Chr16: 17.331415	6.70637644	6.7	Chr19: 22.021238	0.87827	67	0	0.65427	0.7918	1.447E-06
10551293	13107	73898	Cyp2f2	cytochrome P45	Chr7: 27.119975	7.34496469	7.7	Chr7: 70.848220	0.8731	67	0	0.56916	0.30831	0.1254325
10485027	14061	426	F2	coagulation fact	Chr2: 91.624938	7.10671767	7	Chr7: 144.433458	0.873	67	0	0.54286	0.8892	1.269E-09
10566477	15458	511	Hpx	hemopexin (mic	Chr7: 105.591611	7.36324706	5.6	ChrX: 47.876769	0.87135	67	0	0.68511	0.90489	2.209E-10
10430909	76279	75003	Cyp2d26	cytochrome P45	Chr15: 82.790105	7.08077646	6.7	Chr5: 117.567679	0.87009	67	0	0	0.5593	0.0029731
10575349	234724	37293	Tat	tyrosine aminot	Chr8: 109.990457	7.28084707	5	Chr8: 89.553015	0.86704	67	0	0.60196	0.77612	3.169E-06
10513630	11699	1234	Ambp	alpha 1 microgl	Chr4: 63.143275	6.55796471	7.3	Chr8: 89.553015	0.86426	67	0	0.62863	0.77087	4.062E-06
10496825	22262	7584	Uox	urate oxidase	Chr3: 146.597149	6.06283528	7.4	Chr19: 32.357503	0.86183	67	0	0.65486	0.89354	8.045E-10
10574598	382053	84407	Es31	esterase 31	Chr8: 105.048601	7.61031765	6.3	ChrX: 47.876769	0.86163	67	0	0.56318	0.89739	5.281E-10
10597875	13124	3233	Cyp8b1	cytochrome P45	Chr9: 121.914356	7.06742353	7.3	Chr5: 90.012727	0.86059	67	0	0.55099	0.87345	5.75E-09
10398060	20714	40659	Serpina3k	serine (or cyste	Chr12: 104.338497	6.22554119	6.3	Chr8: 94.374289	0.86012	67	0	0.47116	0.85757	2.182E-08
10593981	13077	68082	Cyp1a2	cytochrome P45	Chr9: 57.676937	6.38522354	6.7	Chr19: 52.562306	0.85893	67	0	0.3971	0.89183	9.652E-10
10514763	230558	472	C8a	complement cor	Chr4: 104.815672	6.8829647	6.8	Chr7: 70.848220	0.85772	67	0	0	0.81475	4.047E-07
10425763	13105	86099	Cyp2d9	cytochrome P45	Chr15: 82.452394	6.20461178	6.6	Chr8: 89.553015	0.85654	67	0	0.45481	0.69023	9.533E-05
10388440	18816	719	Serpinf2	serine (or cyste	Chr11: 75.431736	8.4398	7.4	ChrX: 142.990665	0.85605	67	0	0.53758	0.57979	0.0019065
10526712	12007	915	Azgp1	alpha-2-glycopr	Chr5: 137.981536	6.4790353	5.8	Chr8: 89.094303	0.85576	67	0	0.54967	0.74638	1.196E-05
10593169	11814	81615	Apoc3	apolipoprotein C	Chr9: 46.233051	7.28674116	6.6	ChrX: 47.876769	0.85025	67	0	0.56168	0.72585	2.706E-05
10512904	230163	20060	Aldob	aldolase B, fruc	Chr4: 49.535995	6.85488238	6.1	Chr5: 82.442367	0.85017	67	0	0.57735	0.42997	0.0283535
10357516	12269		C4bp	complement cor	Chr1: 130.634773	6.29311764	7	ChrX: 47.144891	0.84939	67	0	0.4735	0.54253	0.0041902
10454192	22139	317	Ttr	transthyretin	Chr18: 20.665280	6.83622352	7.8	Chr7: 70.848220	0.84698	67	0	0.58525	0.59577	0.0013209
10463027	13095	68086	Cyp2c29	cytochrome P45	Chr19: 39.229344	6.09675292	7.2	Chr7: 144.433458	0.84644	67	0	0.55324	0.86507	1.187E-08
10351015	11905	20139	Serpinc1	serine (or cyste	Chr1: 160.978646	7.19288235	8.5	Chr1: 160.285087	0.84546	67	0	0.55858	0.84885	4.246E-08
10541448	17836	110674	Mug1	murinoglobulin	Chr6: 122.176114	6.40457646	5.1	Chr7: 71.410581	0.84509	67	0	0.59228	0.91332	7.586E-11
10480003	16425	1668	Itih2	inter-alpha tryps	Chr2: 10.094589	6.64094119	12.1	Chr8: 94.374289	0.84372	67	0	0.25383	0.81046	5.201E-07
10347117	227231	68208	Cps1	carbamoyl-phos	Chr1: 67.123066	7.23311764	6.4	ChrX: 47.876769	0.84347	67	0	0.61226	0.75728	7.51E-06
10411147	64918	49496	Bhmt2	betaine-homocy	Chr13: 93.656255	7.18178822	7.3	Chr8: 89.553015	0.84346	67	0	0.57713	0.6423	0.0004035
10560131	76971		2810007J24F	RIKEN cDNA 2	Chr7: 14.410698	5.18468236	5.1	Chr7: 70.848220	0.84326	67	0	0	0.88995	1.175E-09
10535714	56388	135775	Cyp3a25	cytochrome P45	Chr5: 145.977196	5.79137648	8.3	Chr8: 94.374289	0.84281	67	0	0.36789	0.80341	7.755E-07
10492735	99571	429	Fgg	fibrinogen gamr	Chr3: 83.007857	6.09084707	6.6	Chr7: 144.433458	0.83966	67	0	0.52739	0.84223	6.85E-08
10431915	69354	75077	Slc38a4	solute carrier fa	Chr15: 96.994823	6.73341176	8.3	Chr5: 83.628884	0.83928	67	0	0.47775	0.73142	2.185E-05
10401289	20493	31126	Slc10a1	solute carrier fa	Chr12: 80.953185	6.35778825	6.1	Chr5: 39.069280	0.83777	67	0	0.45492	0.82527	2.126E-07
10434719	16644	88486	Kng1	kininogen 1	Chr16: 23.058336	6.01865881	5.8	ChrX: 47.876769	0.83742	67	0	0.58954	0.59459	0.0013582
10394394	238055	328	Apob	apolipoprotein B	Chr12: 7.977673	6.63088236	7.1	Chr8: 94.374289	0.83623	67	0	0.51086	0.68354	0.0001185
10418455	16424	1667	Itih1	inter-alpha tryps	Chr14: 30.929363	6.87952942	8.5	ChrX: 142.990665	0.83371	67	0	0.43937	0.84143	7.246E-08
10498981	110135	3772	Fgb	fibrinogen beta	Chr3: 83.042247	7.13644707	7	Chr8: 89.553015	0.8334	67	0	0.48263	0.83218	1.36E-07
10541410	17836	110674	Mug1	murinoglobulin	Chr6: 121.838541	7.16731764	6.6	Chr5: 82.442367	0.83335	67	0	0.59228	0.91332	7.586E-11
10531149	14473	486	Gc	group specific c	Chr5: 89.417522	6.72877648	6.8	Chr7: 70.848220	0.83165	67	0	0.70149	0.88223	2.543E-09
10580624	13884	117484	Es1	esterase 1	Chr8: 93.099015	5.98998823	4.9	Chr8: 89.553015	0.83149	67	0	0.52512	0.8995	4.162E-10
10582658	11606	14	Agt	angiotensinoge	Chr8: 124.556587	7.87143533	8.1	Chr19: 10.043999	0.83147	67	0	0.48136	0.46271	0.0173034
10542615	28253	75119	Slco1b2	solute carrier or	Chr6: 141.629518	5.77368233	7.5	Chr7: 70.848220	0.83142	67	0	0.47428	0.88949	1.232E-09
10506454	110382	48	C8b	complement cor	Chr4: 104.766317	7.25575293	6.7	Chr8: 94.374289	0.83123	67	0	0.31059	0.78655	1.895E-06
10434689	11625	1225	Ahsg	alpha-2-HS-glyc	Chr16: 22.892042	7.38448236	7.8	ChrX: 47.876769	0.8312	67	0	0.74512	0.77358	3.575E-06
10531041	71773	68144	Ugt2b1	UDP glucurono	Chr5: 86.916638	5.33478823	4.7	Chr17: 67.074057	0.83034	67	0	0	0.89481	7.016E-10
10598863	19733	3437	Rgn	regucalcin	ChrX: 20.549815	6.09880001	5.6	ChrX: 47.876769	0.82922	67	0	0.83659	0.86577	1.119E-08
10548207	11287	104112	Pzp	pregnancy zone	Chr6: 128.483219	7.00768236	5.5	Chr5: 82.442367	0.82907	67	0	0.57161	0.25291	0.212567
10457114	12116	1295	Bhmt	betaine-homocy	Chr18: 87.756302	7.43485882	5.7	Chr7: 144.433458	0.82733	67	0	0.67848	0.8105	5.191E-07
10560045	26459	7596	Slc27a5	solute carrier fa	Chr7: 12.988346	6.7406	6.4	Chr8: 94.374289	0.82552	67	0	0.55487	0.90565	2.014E-10
10351546	11807	1242	Apoa2	apolipoprotein A	Chr1: 171.225089	7.9502588	6.4	ChrX: 47.876769	0.82528	67	0	0.55794	0.77863	2.807E-06
10351852	12944	476	Crp	C-reactive prote	Chr1: 172.698056	6.23555295	6.2	Chr16: 88.032782	0.82277	67	0	0.71576	0.88638	1.692E-09
10403322	83702	84695	Akr1c6	aldo-keto reduc	Chr13: 4.434343	6.25118823	5.5	Chr7: 70.848220	0.82195	67	0	0.52108	0.82867	1.711E-07
10511886	12116	1295	Bhmt	betaine-homocy	Chr4: 26.368984	7.03838824	6.3	Chr8: 90.819263	0.82125	67	0	0.67848	0.8105	5.191E-07
10434698	59083	8660	Fetub	fetuin beta	Chr16: 22.920237	6.34043529	6.5	Chr7: 71.410581	0.82065	67	0	0.47894	0.467	0.0161628
10513529	17842	74304	Mup3	major urinary pr	Chr4: 62.083471	5.91924707	6	Chr7: 144.433458	0.81921	67	0	0.35921	0.75869	7.062E-06
10507177	1E+08	110448	Cyp4a32	cytochrome P45	Chr4: 115.600985	5.82662353	4.9	Chr2: 161.690930	0.81743	67	0	0	0	1
10373334	27400	20811	Hsd17b6	hydroxysteroid (	Chr10: 127.990933	6.67732939	6.2	Chr17: 48.599850	0.81708	67	0	0.27297	0.6983	7.282E-05
10608675			Affy_1060867	Affymetrix Mous	ChrUn: 1.000000	6.32801175	7.3	ChrX: 47.876769	0.81696	67	0	0	0	1
10368343	11846	29	Arg1	arginase, liver	Chr10: 24.915221	6.81701177	5.5	Chr15: 37.462412	0.81669	67	0	0.60224	0.58367	0.0017471
10367215	28194	51183	Apon	apolipoprotein N	Chr10: 128.254131	6.63442351	6.4	ChrX: 47.876769	0.81647	67	0	0.40144	0.88016	3.102E-09
10410007	14121	55467	Fbp1	fructose bispho	Chr13: 62.864753	6.49294117	6.4	Chr5: 117.567679	0.81626	67	0	0.58817	0.46747	0.016041
10373600	71664	12400	Mettl7b	methyltransfera	Chr10: 128.958274	5.99176469	6.1	ChrX: 142.990665	0.81575	67	0	0	0.43489	0.0263994
10541480	17836	110674	Mug1	murinoglobulin	Chr6: 122.240355	6.95950588	6.7	Chr16: 86.502753	0.81466	67	0	0.59228	0.91332	7.586E-11
10531034	100727	117389	Ugt2b34	UDP glucurono	Chr5: 86.889767	5.99210588	6.7	Chr7: 70.848220	0.81384	67	0	0	0.39508	0.0457626
10531051	231396	121583	Ugt2b36	UDP glucurono	Chr5: 87.065927	5.37084703	4.5	Chr7: 91.094474	0.81229	67	0	0	0.76601	5.083E-06
10496001	12630	171	Cfi	complement cor	Chr3: 129.836737	6.37821176	8.8	Chr3: 138.272923	0.81205	67	0	0.43614	0.8094	5.53E-07
10465742	319800	77136	Slc22a30	solute carrier fa	Chr19: 8.062209	5.25161175	8	Chr7: 144.433458	0.81168	67	0	0.22144	0	1
10371970	71761	14730	Amdhd1	amidohydrolase	Chr10: 93.523338	6.74983529	7.2	Chr19: 21.809324	0.81019	67	0	0	0.87675	4.266E-09
10503502	50500	37295	Ttpa	tocopherol (alpl	Chr4: 20.008243	6.30748234	7.5	Chr7: 81.973170	0.80948	67	0	0.8164	0.83947	8.306E-08
10388718	19193	40640	Pipox	pipecolic acid o	Chr11: 77.880615	7.21505881	7.6	Chr6: 119.359562	0.80836	67	0	0.44701	0.55427	0.0033017
10462473	17195	110436	Mbl2	mannose-bindir	Chr19: 30.232942	7.4566706	7.1	Chr13: 119.390734	0.80823	67	0	0.45884	0.90713	1.681E-10
10422748	12279	74406	C9	complement cor	Chr15: 6.445333	5.8829059	6.5	Chr6: 134.621785	0.80806	67	0	0.33368	0.89447	7.28E-10
10461728	240549	72602	Gm4952	predicted gene	Chr19: 12.600088	6.50862354	7.7	Chr6: 4.327681	0.80587	67	0	0	0	1
10514532	13109	122178	Cyp2j5	cytochrome P45	Chr4: 96.627432	6.03149412	6	Chr5: 91.626379	0.80582	67	0	0.63509	0.32847	0.1013506
10413615	16427	1670	Itih4	inter alpha-tryps	Chr14: 30.886502	7.63047061	5.9	Chr5: 39.069280	0.80523	67	0	0.483	0.71157	4.585E-05
10492300	67758	37436	Aadac	arylacetamide d	Chr3: 60.031788	6.03427059	7.5	Chr8: 94.374289	0.80463	67	0	0.48037	0.67964	0.0001341
10373330	54150	117981	Rdh7	retinol dehydrog	Chr10: 127.884027	6.20479999	7.6	Chr7: 70.848220	0.80218	67	0	0.39589	0.80307	7.899E-07
10465764	319800	77136	Slc22a30	solute carrier fa	Chr19: 8.335371	5.34584705	6	Chr5: 76.145896	0.80213	67	0	0.22144	0	1
10533612	15445	1620	Hpd	4-hydroxypheny	Chr5: 123.171807	7.27718824	6	ChrX: 47.876769	0.80195	67	0	0.58993	0.78226	2.348E-06
10427624	105887	71100	Ugt3a1	UDP glycosyltra	Chr15: 9.310477	5.92760001	6.6	Chr9: 95.334029	0.80186	67	0	0.33292	0.48825	0.0113857
10483410	27413	74509	Abcb11	ATP-binding ca	Chr2: 69.238282	6.17344706	5.6	Chr8: 3.500000	0.80066	67	0	0.48579	0.88459	2.022E-09

10498921	56720	4132	Tdo2	tryptophan 2,3-(	Chr3: 81.958003	5.83051765	6.3	Chr9: 123.938540	0.80055	67	0	0.57756	0.84376	6.144E-08
10463551	12686	69006	Elovl3	elongation of ve	Chr19: 46.131899	6.21441175	4.8	Chr7: 70.848220	0.80039	67	0	0.52431	0.70608	5.568E-05
10522819	243085	121583	Ugt2b35	UDP glucurono	Chr5: 87.000860	4.94878822	5.6	Chr5: 83.628884	0.79983	67	0	0	0.69285	8.742E-05
10467400	404195	113709	Cyp2c54	cytochrome P45	Chr19: 40.037941	6.41564707	6.4	ChrX: 47.876769	0.79974	67	0	0.38618	0.85581	2.504E-08
10562169	84506	10911	Hamp	hepcidin antimi	Chr7: 30.942368	5.44241179	7.1	Chr9: 103.625467	0.7957	67	0	0.50867	0	1
10578352	234199	37927	Fgl1	fibrinogen-like p	Chr8: 41.191434	6.71196469	4.5	Chr1: 167.223111	0.79522	67	0	0.64211	0.88803	1.432E-09
10467390	13099	74936	Cyp2c40	cytochrome P45	Chr19: 39.767071	5.85095293	7.4	Chr1: 166.983006	0.7935	67	0	0.37572	0.51387	0.0072457
10416451	56373	55610	Cpb2	carboxypeptida	Chr14: 75.242287	5.84276469	7.3	Chr7: 70.848220	0.79315	67	0	0.60278	0.89688	5.588E-10
10574607	13909	84407	Gm4738	predicted gene	Chr8: 105.083763	6.57370587	7.5	Chr5: 82.442367	0.79301	67	0	0.39909	0	1
10414192	11720	68057	Mat1a	methionine ade	Chr14: 41.105381	6.80238822	7.1	Chr5: 54.594833	0.79253	67	0	0.71195	0.81009	5.313E-07
10423002	105887	71100	Ugt3a1	UDP glycosyltra	Chr15: 9.310477	5.92022353	6.6	Chr9: 95.329897	0.79167	67	0	0.33292	0.48825	0.0113857
10513538	381531	74304	Mup21	major urinary pr	Chr4: 62.147563	5.01841174	5.2	Chr7: 70.848220	0.79073	67	0	0	0	1
10450444	55938	10308	Apom	apolipoprotein M	Chr17: 35.128997	5.98939999	7	Chr15: 28.321742	0.79008	67	0	0.6344	0.67437	0.0001582
10580663	234564	110938	AU018778	expressed sequ	Chr8: 93.256236	6.41325883	7.4	Chr6: 16.059391	0.78952	67	0	0.2544	0.38056	0.0551215
10447786	20517	20665	Slc22a1	solute carrier fa	Chr17: 12.648874	7.57619999	6.2	Chr19: 8.952515	0.78824	67	0	0.5124	0.41605	0.0345121
10350425	14060	1512	F13b	coagulation fact	Chr1: 139.501727	5.39581175	7.2	ChrX: 47.876769	0.78763	67	0	0.57132	0.68266	0.0001219
10467410	226105	120027	Cyp2c70	cytochrome P45	Chr19: 40.153361	6.47088236	7.2	Chr19: 52.801833	0.78519	67	0	0	0.89464	7.146E-10
10585015	66113	14197	Apoa5	apolipoprotein A	Chr9: 46.268608	7.69507061	10	Chr14: 33.045890	0.7836	67	0	0.5536	0.89008	1.159E-09
10467319	19662	4908	Rbp4	retinol binding p	Chr19: 38.116629	7.25962356	8.1	Chr19: 42.426702	0.78326	67	0	0.60871	0.71314	4.333E-05
10563602	20211	4750	Saa4	serum amyloid A	Chr7: 46.727996	6.204	6.5	Chr8: 89.553015	0.7827	67	0	0.45911	0.90122	3.414E-10
10527494	56388	135775	Cyp3a25	cytochrome P45	Chr5: 146.079335	5.14020002	4.9	Chr5: 85.578195	0.78213	67	0	0.36789	0.80341	7.755E-07
10349580	18703	1984	Pigr	polymeric immu	Chr1: 130.826751	7.09954118	7.8	Chr9: 48.080531	0.78054	67	0	0.5562	0.30337	0.1319145
10548978	28248	86978	Slco1a1	solute carrier or	Chr6: 141.711685	4.8142	6.5	Chr7: 81.535217	0.78026	67	0	0.42978	0.50333	0.0087632
10496466	26876	20162	Adh4	alcohol dehydro	Chr3: 138.415509	6.38074118	9.6	Chr4: 140.605784	0.77923	67	0	0.54831	0.75004	1.026E-05
10507152	13118	107112	Cyp4a12b	cytochrome P45	Chr4: 115.411601	5.84331765	5.6	Chr7: 137.031765	0.7772	67	0	0.52477	0.59988	0.0011981
10506125	30924	8499	Angptl3	angiopoietin-like	Chr4: 99.030955	6.48892942	7.2	Chr7: 144.433458	0.77713	67	0	0.52443	0.82489	2.178E-07
10365769	15109	68229	Hal	histidine ammor	Chr10: 93.488768	7.05191764	8.1	Chr3: 142.634889	0.77684	67	0	0.5753	0.67633	0.0001488
10535704	13112	111391	Cyp3a11	cytochrome P45	Chr5: 145.854607	5.18959999	6.7	Chr7: 144.433458	0.77606	67	0	0.51469	0.84747	4.699E-08
10407456	116852	105790	Akr1c20	aldo-keto reduc	Chr13: 4.486972	6.02989409	5	Chr7: 144.447601	0.77585	67	0	0.40802	-0.0064	0.9752743
10496438	11522	73888	Adh1	alcohol dehydro	Chr3: 138.277645	8.26590585	8	Chr3: 141.733523	0.77505	67	0	0.58426	0.46879	0.0157061
10408838	54326	23042	Elovl2	elongation of ve	Chr13: 41.182495	6.28212938	6.3	Chr7: 92.731535	0.77372	67	0	0.46875	0.60997	0.0009379
10418434	16426	1669	Itih3	inter-alpha tryps	Chr14: 30.908572	8.00939998	5.5	Chr15: 37.462412	0.77301	67	0	0.25241	0.71026	4.803E-05
10367221	103161	48030	Apof	apolipoprotein F	Chr10: 128.267997	6.8896706	8.4	Chr10: 79.015857	0.77293	67	0	0.54384	0.83938	8.361E-08
10531066	72094	41585	Ugt2a3	UDP glucurono	Chr5: 87.324972	5.61158823	6.9	ChrX: 47.876769	0.77199	67	0	0	0.79113	1.498E-06
10461735	107146	64840	Glyat	glycine-N-acyltr	Chr19: 12.633308	5.02880001	6.4	Chr4: 156.121747	0.77192	67	0	0.36906	0.59868	0.0012331
10535669	53973	111391	Cyp3a41a	cytochrome P45	Chr5: 145.558762	5.39417646	8.3	ChrX: 48.026885	0.77144	67	0	0.48427	-0.0837	0.6845427
10538965	14080	1106	Fabp1	fatty acid bindin	Chr6: 71.199888	6.33667058	8.9	Chr7: 144.433458	0.77121	67	0	0.59115	-0.0394	0.8483784
10475653	26458	37830	Slc27a2	solute carrier fa	Chr2: 126.553024	6.79091765	5.6	Chr17: 48.599850	0.7697	67	0	0.46668	0.46858	0.0157577
10362052	237320	23369	Aldh8a1	aldehyde dehyd	Chr10: 21.377291	6.04842351	7.1	ChrX: 47.328644	0.76934	67	0	0.37369	0.63278	0.0005224
10593167			Affy_1059316	Affymetrix Mous	Chr9: 46.230163	7.61524708	9.1	Chr5: 118.918193	0.76926	67	0	0	0	1
10598612	18416	446	Otc	ornithine transc	ChrX: 10.252359	5.16829412	5.3	Chr1: 91.322316	0.76867	67	0	0.57067	0.72974	2.332E-05
10463043	13096	110445	Cyp2c37	cytochrome P45	Chr19: 39.992424	6.82797647	9	Chr13: 119.415045	0.76853	67	0	0.37572	0.89542	6.561E-10
10541426	17837	110674	Cpamd8	C3 and PZP-like	Chr6: 122.006798	6.62077647	7.1	Chr9: 41.851653	0.7678	67	0	0.36664	0	1
10581388	16816	68042	Lcat	lecithin choleste	Chr8: 105.939552	7.41018824	10.4	Chr14: 61.698345	0.76694	67	0	0.57653	0.81804	3.324E-07
10463051	107141	113709	Cyp2c50	cytochrome P45	Chr19: 40.089684	5.47962354	6.8	ChrX: 48.026885	0.76558	67	0	0.38618	0.89824	4.8E-10
10434709	94175	30973	Hrg	histidine-rich gl	Chr16: 22.951111	5.61951765	6.3	Chr8: 80.460107	0.76482	67	0	0.59372	0.87991	3.175E-09
10491171	20526	68047	Slc2a2	solute carrier fa	Chr3: 28.697977	7.1516353	8.6	Chr13: 67.497240	0.76463	67	0	0.55389	0.57819	0.0019759
10358315	50702	55632	Cfhr1	complement fac	Chr1: 139.547064	5.57305881	4.8	Chr13: 50.000000	0.76144	67	0	0.21627	0.86483	1.21E-08
10406564	74156	12540	Acot12	acyl-CoA thioes	Chr13: 91.741518	6.85911766	6	Chr1: 172.911308	0.76136	67	0	0.34986	0.44019	0.0244205
10386460	18618	6291	Pemt	phosphatidyleth	Chr11: 59.970617	7.99194121	9.2	Chr10: 69.221160	0.75933	67	0	0.67645	0.67883	0.0001376
10430866	13101	86099	Cyp2d10	cytochrome P45	Chr15: 82.402846	7.37667059	7.1	Chr19: 11.926007	0.75875	67	0	0.35539	0.74689	1.171E-05
10503023	107869	1432	Cth	cystathionase (	Chr3: 157.894248	7.3070353	9.1	Chr5: 52.890189	0.75851	67	0	0.66444	0.59184	0.0014483
10480751	69379	505	C8g	complement cor	Chr2: 25.498651	7.24749412	11	Chr5: 116.555930	0.75833	67	0	0.25477	0.72952	2.352E-05
10558687	76974	45975	1190003J15F	RIKEN cDNA 11	Chr7: 140.835279	7.27875294	7.4	Chr9: 7.785297	0.75786	67	0	0.59711	0.49716	0.0097669
10360840	66112	49712	Mosc1	MOCO sulphura	Chr1: 184.787285	7.71881179	9.4	Chr5: 21.026344	0.75783	67	0	0.34413	0.8797	3.238E-09
10551226	13086	85917	Cyp2a4	cytochrome P45	Chr7: 26.307169	6.45777645	7.9	Chr2: 161.690930	0.75751	67	0	0.47736	0.45643	0.0190889
10541318	14412	9592	Slc6a13	solute carrier fa	Chr6: 121.300296	7.02449413	8.6	Chr13: 40.038773	0.75735	67	0	0.40686	0.5745	0.0021443
10451451	14711	7741	Gnmt	glycine N-methy	Chr17: 46.725664	7.60825881	8.6	Chr7: 36.449783	0.75638	67	0	0.72024	0.65557	0.0002775
10507143	277753	107112	Cyp4a12a	cytochrome P45	Chr4: 115.299046	5.83549413	9.1	Chr7: 70.848220	0.75597	67	0	0.5062	0.63284	0.0005215
10417544	93732	74473	Acox2	acyl-Coenzyme	Chr14: 8.225511	7.07547059	6.7	Chr13: 106.114442	0.75371	67	0	0	0.44429	0.0229712
10535683	53973	111391	Cyp3a41a	cytochrome P45	Chr5: 145.694051	5.39042354	10.4	ChrX: 48.026885	0.75363	67	0	0.48427	-0.0837	0.6845427
10510399	17175	4819	Masp2	mannan-binding	Chr4: 148.602544	7.0508353	9.6	Chr14: 32.815861	0.75353	67	0	0.38994	-0.1342	0.5132741
10585010	11808	47927	Apoa4	apolipoprotein A	Chr9: 46.240844	7.76175295	7.7	Chr4: 156.183776	0.75237	67	0	0.56322	0.53327	0.0050276
10608668			Affy_1060866	Affymetrix Mous	ChrUn: 1.000000	6.41088234	9.3	Chr3: 140.374071	0.75225	67	0	0	0	1
10481962	15139	20412	Hc	hemolytic comp	Chr2: 34.983331	6.83155293	7.3	Chr7: 144.433458	0.75161	67	0	0.43628	0.68916	9.877E-05
10540034	107747	122031	Aldh1l1	aldehyde dehyd	Chr6: 90.550818	8.09497645	9.4	Chr6: 135.266996	0.75154	67	0	0.64289	0.64678	0.0003563
10482004	98870	87268	AI182371	expressed sequ	Chr2: 35.081893	6.03889413	6.8	Chr6: 135.057199	0.75083	67	0	0.18039	0.8639	1.308E-08
10505268			Affy_1050526	Affymetrix Mous	Chr4: 61.798895	4.98592942	5.2	Chr19: 13.161152	0.75063	67	0	0	0	1
10495625	99586	85	Dpyd	dihydropyrimidi	Chr3: 118.562176	6.9314941	8.7	Chr16: 26.422169	0.75029	67	0	0.53643	0.58616	0.0016509
10560618	11812	1244	Apoc1	apolipoprotein (	Chr7: 19.689481	7.62189412	12.5	Chr8: 94.374289	0.74902	67	0	0.58565	0.43609	0.0259423
10534945	13113	121493	Cyp3a13	cytochrome P45	Chr5: 137.892933	6.09222353	4.3	Chr9: 112.569308	0.74887	67	0	0.56591	0.34262	0.0866402
10541446	17837	110674	Cpamd8	C3 and PZP-like	Chr6: 122.151922	5.4317647	5.9	Chr7: 70.848220	0.74487	67	0	0.36664	0	1
10438681	385643	88343	Kng2	kininogen 2	Chr16: 22.985854	6.76794117	7.5	Chr16: 74.899626	0.74451	67	0	0.37208	0.66843	0.0001897
10545881	93673	118004	Cml2	camello-like 2	Chr6: 85.865422	6.22274117	6	Chr19: 22.021238	0.74403	67	0	0.37853	0.80005	9.327E-07
10531100	53315	80233	Sult1d1	sulfotransferase	Chr5: 87.554645	5.05464706	4.9	Chr16: 27.062879	0.74198	67	0	0.56717	0.16491	0.4207923
10398069	20717	40659	Serpina3m	serine (or cyste	Chr12: 104.387186	7.24154119	10.4	Chr3: 142.634889	0.74178	67	0	0.3871	0.84873	4.284E-08
10531057	22238	84333	Ugt2b5	UDP glucurono	Chr5: 87.124960	5.09618824	6.7	Chr7: 137.031765	0.74123	67	0	0.33726	0.74808	1.114E-05
10570308	66901	2890	Proz	protein Z, vitam	Chr8: 13.060908	7.30694121	7.6	Chr19: 22.456818	0.74049	67	0	0.5068	0.81767	3.398E-07
10575833	15486	99709	Hsd17b2	hydroxysteroid (	Chr8: 117.701946	6.78341178	11.5	Chr8: 95.747331	0.74029	67	0	0.55878	0.37633	0.0581126
10406646	74129	8372	Dmgdh	dimethylglycine	Chr13: 93.674433	6.85450588	8.1	ChrX: 142.990665	0.73755	67	0	0.45546	0.72794	2.499E-05
10478389	15378	395	Hnf4a	hepatic nuclear	Chr2: 163.506836	7.67398822	7.3	Chr7: 70.848220	0.73723	67	0	0.41818	0.34633	0.0830627
10513521	381530	74304	Mup20	major urinary pr	Chr4: 62.050234	5.66718824	6.8	Chr8: 90.819263	0.73544	67	0	0.40091	0	1
10466976	104174	141	Gldc	glycine decarbo	Chr19: 30.098447	6.81421173	5.6	Chr6: 134.621785	0.73543	67	0	0.50191	0.48417	0.0121977
10360328	20219	110951	Apcs	serum amyloid I	Chr1: 172.893961	6.16058823	5.8	Chr5: 21.026344	0.73162	67	0	0.68572	0.87269	6.154E-09
10423005	105887	71100	Ugt3a1	UDP glycosyltra	Chr15: 9.279862	5.34955293	8.1	Chr2: 173.426500	0.7306	67	0	0.33292	0.48825	0.0113857
10404077	218103	4260	Slc17a2	solute carrier fa	Chr13: 23.806993	6.14068237	8.9	Chr6: 134.621785	0.72981	67	0	0	0.87513	4.945E-09
10488010	15112	6578	Hao1	hydroxyacid oxi	Chr2: 134.497361	5.53875293	7.7	Chr7: 70.848220	0.72692	67	0	0.55233	0.8947	7.097E-10
10414211	17194	55449	Mbl1	mannose-bindir	Chr14: 41.151456	6.27669412	11	Chr8: 94.374289	0.72057	67	0	0.45211	0.85401	2.878E-08
10512895	12012	1286	Baat	bile acid-Coenz	Chr4: 49.489418	6.42751763	6.5	Chr8: 89.553015	0.7205	67	0	0.4261	0.87706	4.144E-09
10479047	18534	1944	Pck1	phosphoenolpy	Chr2: 173.153073	7.89162351	7.6	ChrX: 61.058643	0.71913	67	0	0.58667	0.43323	0.0270476
10346410	71724	90899	Aox3	aldehyde oxidas	Chr1: 58.113136	6.63385883	6	Chr1: 59.076759	0.71788	67	0	0.51984	0.67387	0.0001606
10443898	106648	80199	Cyp4f15	cytochrome P45	Chr17: 32.685659	6.75612938	10.2	Chr14: 55.622689	0.71769	67	0	0	0.50527	0.0084653

10402368	12401	20417	Serpina6	serine (or cyste	Chr12: 103.646630	6.09343528	6.7	ChrX: 47.876769	0.71708	67	0	0.63415	0.91272	8.207E-11
10468722	14585	3855	Gfra1	glial cell line de	Chr19: 58.235612	7.69179999	9.7	Chr8: 95.747331	0.71295	67	0	0.35287	0.42604	0.0299934
10463308	12780	68052	Abcc2	ATP-binding ca	Chr19: 43.782308	6.71072941	6.7	Chr2: 92.415016	0.71234	67	0	0.43581	0.58774	0.0015924
10514956	20280	37717	Scp2	sterol carrier pr	Chr4: 108.043839	9.22821178	6	ChrX: 38.899709	0.71221	67	0	0.56248	0.45022	0.0210019
10507171	666168	107752	Cyp4a31	cytochrome P45	Chr4: 115.563717	4.84258822	10	Chr5: 83.628884	0.70455	67	0	0	0	1
10551287	13085	69128	Cyp2a12	cytochrome P45	Chr7: 27.029090	5.84678826	6.3	Chr7: 144.433458	0.70409	67	0	0.33989	0.75188	9.485E-06
10505240			Affy_1050524	Affymetrix Mous	Chr4: 60.155689	5.74771765	6.8	Chr7: 144.433458	0.70321	67	0	0	0	1
10458016	19123	37288	Proc	protein C	Chr18: 32.123126	7.28082353	7.8	Chr5: 21.026344	0.70315	67	0	0.59929	0.5961	0.0013107
10467380	545288	74936	Cyp2c67	cytochrome P45	Chr19: 39.608842	4.97652942	7.5	Chr9: 3.400000	0.70114	67	0	0	0.81481	4.031E-07
10423053	268782	12887	Agxt2	alanine-glyoxyla	Chr15: 10.358579	6.77632941	6.4	Chr7: 36.497805	0.69848	67	0	0.61111	0.70387	6.014E-05
10408689	68404	9577	Nrn1	neuritin 1	Chr13: 36.725625	7.24054119	6.9	Chr16: 26.422169	0.69778	67	0	0.45797	0.58028	0.0018857
10523095	280662	881	Afm	afamin	Chr5: 90.518949	6.06172941	10	Chr9: 48.080531	0.69693	67	0	0.53852	0.65815	0.0002575
10551282	1E+08		LOC1000477	Affymetrix Mous	Chr7: 26.835341	6.84641174	7.7	ChrX: 142.990665	0.69367	67	0	0	0	1
10505254			Affy_105052	Affymetrix Mous	Chr4: 61.244951	5.34139999	7.1	ChrX: 47.876769	0.69284	67	0	0	0	1
10592938	192653	14626	Ttc36	tetratricopeptide	Chr9: 44.799400	8.39934116	12.3	Chr4: 156.100964	0.69185	67	0	0.60423	0	1
10365545	18478	234	Pah	phenylalanine h	Chr10: 87.521937	7.84439997	8.9	Chr4: 88.554042	0.69181	67	0	0.72609	0.51267	0.0074066
10379190	22370	532	Vtn	vitronectin	Chr11: 78.499120	7.3443647	9.2	Chr7: 70.848220	0.69086	67	0	0.55387	0.70271	6.261E-05
10523062	11657	405	Alb	albumin	Chr5: 90.460901	7.47931763	11.8	Chr8: 94.374289	0.68893	67	0	0.56833	0.87113	7.064E-09
10377751	11889	1263	Asgr1	asialoglycoprote	Chr11: 70.054369	6.80550589	8.8	Chr4: 156.183776	0.68866	67	0	0.5984	0.76233	6.006E-06
10420935	13850	37558	Ephx2	epoxide hydrola	Chr14: 66.084374	7.81485883	8.5	Chr5: 83.628884	0.68718	67	0	0.64366	0.36198	0.0691921
10492748	14161	428	Fga	fibrinogen alpha	Chr3: 83.026154	6.8573765	8.6	Chr15: 8.299029	0.68651	67	0	0.53832	0.7586	7.09E-06
10556734	117147	24930	Acsm1	acyl-CoA synthe	Chr7: 119.617823	6.80797648	6.9	ChrX: 61.058643	0.68571	67	0	0.34892	0.47247	0.0147997
10557300	11833	68166	Aqp8	aquaporin 8	Chr7: 123.462312	7.11538825	6.7	Chr5: 113.315727	0.68543	67	0	0.39528	0.47306	0.0146563
10461758	64697	69461	Keg1	kidney expresse	Chr19: 12.695793	6.49109411	7.8	Chr17: 22.879168	0.68313	67	0	0.37615	0.55475	0.0032691
10485700	170442	2967	Bbox1	butyrobetaine (g	Chr2: 110.262697	6.06685881	6.4	Chr9: 47.625185	0.68308	67	0	0.28095	0.58942	0.0015317
10403291	105387	64472	Akr1c14	aldo-keto reduc	Chr13: 4.059575	6.65154116	6.8	Chr9: 123.034916	0.68293	67	0	0.4583	0.4132	0.0358975
10549079	232493	56580	Gys2	glycogen syntha	Chr6: 142.422613	6.30704706	6.3	Chr13: 16.103938	0.68235	67	0	0.5575	0.83849	8.889E-08
10467887	93721	1002	Cpn1	carboxypeptidas	Chr19: 43.956307	6.99235295	8.4	Chr19: 42.483433	0.68151	67	0	0.53075	0.51854	0.0066488
10404218	14756	1152	Gpld1	glycosylphosph	Chr13: 24.943152	6.92109413	9.6	Chr7: 111.707135	0.67588	67	0	0.58172	-0.331	0.098605
10542983	18979	68058	Pon1	paraoxonase 1	Chr6: 5.168101	6.0256706	8.6	Chr2: 161.690930	0.67392	67	0	0.72101	0.65966	0.0002464
10423011	223337	71100	Ugt3a2	UDP glycosyltra	Chr15: 9.335598	5.88888236	8.1	Chr7: 81.535217	0.6723	67	0	0.33292	0.56802	0.0024696
10520763	231103	1139	Gckr	glucokinase reg	Chr5: 31.297581	6.72315291	8.2	Chr19: 22.021238	0.67138	67	0	0.55652	0.89937	4.224E-10
10398011	321018		Serpina4-ps1	serine (or cyste	Chr12: 104.077973	6.4747882	9.4	Chr12: 103.031681	0.66898	67	0	0.45409	0.90303	2.761E-10
10381387	14377	20079	G6pc	glucose-6-phos	Chr11: 101.367716	6.51172938	7.2	ChrX: 38.899709	0.66892	67	0	0.68575	0.60123	0.0011601
10500555	15494		Hsd3b3	hydroxy-delta-5	Chr3: 98.741521	6.26776473	10.5	Chr17: 3.223874	0.66874	67	0	0.4193	0.0992	0.6297236
10571891	23923	56540	Aadat	aminoadipate a	Chr8: 60.506124	5.67254116	8.3	Chr7: 144.433458	0.66809	67	0	0.57764	0.43384	0.0268061
10502375	17777	212	Mttp	microsomal trigl	Chr3: 138.090886	7.24634119	6.5	Chr3: 139.469112	0.66725	67	0	0.59221	0.56067	0.0028885
10430883	68444		Cyp2d13	cytochrome P45	Chr15: 82.636750	6.06965883	8	Chr15: 37.462412	0.66685	67	0	0.33276	0.8647	1.225E-08
10497381	13123	3544	Cyp7b1	cytochrome P45	Chr3: 18.071950	7.36410584	6	Chr15: 73.734284	0.66448	67	0	0.62299	0.66022	0.0002423
10574498	102022	119893	Ces6	carboxylesteras	Chr8: 104.734008	5.51010589	11.4	Chr16: 22.028845	0.66441	67	0	0.43557	0.54851	0.0037152
10596718	76257	4983	Slc38a3	solute carrier fa	Chr9: 107.651155	7.35705881	10.5	Chr9: 120.697358	0.66352	67	0	0.5576	0.78474	2.076E-06
10374366	13649	74545	Egfr	epidermal grow	Chr11: 16.752203	7.87048234	9.3	Chr5: 83.628884	0.66224	67	0	0.37225	0.51111	0.0076198
10543333	30956	4212	Aass	aminoadipate-s	Chr6: 23.072170	6.51324707	9.1	Chr5: 54.594833	0.66182	67	0	0.68688	0.44668	0.0221614
10430324	71753	12408	Tmprss6	transmembrane	Chr15: 78.439667	8.1309647	7	Chr6: 135.057199	0.65935	67	0	0.5028	0.87575	4.672E-09
10580678	12623	117993	Ces1	carboxylesteras	Chr8: 93.302393	6.56542356	8	Chr5: 63.428273	0.65692	67	0	0.65878	0.44403	0.0230625
10349932	214253		Etnk2	ethanolamine ki	Chr1: 133.363764	6.31221177	7.6	Chr7: 71.410581	0.65276	67	0	0.54032	0.77359	3.574E-06
10462484	69865	16363	A1cf	APOBEC1 com	Chr19: 31.868764	4.88107057	10.2	Chr7: 95.997605	0.65268	67	0	0.53445	0.48261	0.0125212
10349694	212933	65049	Pm20d1	peptidase M20	Chr1: 131.797395	6.45315291	8	Chr2: 13.436216	0.65225	67	0	0	0	1
10505261			Affy_105052	Affymetrix Mous	Chr4: 61.535594	5.22841176	7.5	Chr10: 55.515150	0.65191	67	0	0	0	1
10544932	21743	81752	Inmt	indolethylamine	Chr6: 55.170626	7.18589412	10.5	Chr6: 16.059391	0.65155	67	0	0.62412	0.21964	0.280993
10496077	71760	69440	Agxt2l1	alanine-glyoxyla	Chr3: 130.617575	6.33210589	11.2	Chr19: 42.426702	0.65124	67	0	0	0.77109	4.02E-06
10402406	20702	20103	Serpina1c	serine (or cyste	Chr12: 103.894926	7.17448236	8.3	Chr7: 135.314535	0.65113	67	0	0.56514	0	1
10580649	13897	115660	Es22	esterase 22	Chr8: 93.201199	6.61865883	7.3	Chr4: 21.855857	0.651	67	0	0.50169	0.52868	0.0054916
10503520	50500	37295	Ttpa	tocopherol (alph	Chr4: 20.028178	5.67299999	7.7	Chr7: 115.084347	0.65001	67	0	0.8164	0.83947	8.306E-08
10501218	14864	37356	Gstm3	glutathione S-tra	Chr3: 107.963696	7.46568233	10.1	Chr7: 27.524276	0.64527	67	0	0.50962	0.11713	0.5687739
10481186	192166	5149	Sardh	sarcosine dehy	Chr2: 27.188397	8.2393647	8	Chr5: 110.385941	0.64186	67	0	0.30766	0.7004	6.777E-05
10601161	14618	137	Gjb1	gap junction pro	ChrX: 101.377337	7.19796468	11.6	Chr11: 103.717493	0.64123	67	0	0.40478	0.76088	6.409E-06
10500547	15493	69149	Hsd3b2	hydroxy-delta-5	Chr3: 98.709255	5.55937647	7.5	Chr7: 92.731535	0.63904	67	0	0.44776	-0.2934	0.1456842
10548996	28250	56603	Slco1a4	solute carrier or	Chr6: 141.805438	5.25047059	9	Chr1: 170.949421	0.63586	67	0	0.43312	0.57542	0.0021012
10505246			Affy_1050524	Affymetrix Mous	Chr4: 60.238707	5.00349413	8.4	Chr7: 81.535217	0.6342	67	0	0	0	1
10505258			Affy_105052	Affymetrix Mous	Chr4: 61.320092	5.00349413	8.4	Chr7: 81.535217	0.6342	67	0	0	0	1
10351533	12355	3759	Nr1i3	nuclear recepto	Chr1: 171.213970	6.75115295	6.8	Chr4: 156.121747	0.62991	67	0	0.38811	-0.0568	0.7828044
10419578	29811	22785	Ndrg2	N-myc downstre	Chr14: 51.905281	8.94185886	8.8	Chr15: 73.734284	0.62907	67	0	0.58263	0.23036	0.2575802
10537306	208665	55943	Akr1d1	aldo-keto reduc	Chr6: 37.530173	6.0552353	10.3	Chr7: 115.084347	0.62855	67	0	0	0.25338	0.2116918
10458828	12583	1365	Cdo1	cysteine dioxyg	Chr18: 46.713205	7.73563529	9.1	Chr8: 87.261759	0.62435	67	0	0.64023	0.47383	0.0144752
10430892	93882		Pcdhb11	protocadherin b	Chr15: 82.688750	7.54914118	12.4	Chr7: 144.447601	0.62241	67	0	0	-0.0909	0.6586736
10469046	16922	4530	Phyh	phytanoyl-CoA	Chr2: 4.919019	10.0673882	8.7	Chr13: 59.444841	0.62161	67	0	0.57438	0.34645	0.0829482
10514912	13370	620	Dio1	deiodinase, iod	Chr4: 107.291465	6.48769408	10.3	Chr8: 94.374289	0.62144	67	0	0.55943	0.4666	0.0162659
10428338	64705	20359	Dpys	dihydropyrimidi	Chr15: 39.768485	7.32112941	7.8	Chr19: 22.456818	0.62049	67	0	0.51836	0.32407	0.1062856
10464113	226243	3050	Habp2	hyaluronic acid	Chr19: 56.287923	7.45502351	11.8	Chr18: 73.475369	0.6177	67	0	0.59418	0.54256	0.0041874
10511375	13122	30987	Cyp7a1	cytochrome P45	Chr4: 6.265612	5.16049411	6.9	Chr1: 167.194662	0.6171	67	0	0.56333	0.90446	2.325E-10
10582287	12352	68200	Car5a	carbonic anhyd	Chr8: 121.916127	7.42650589	11.9	Chr14: 57.578299	0.61623	67	0	0.61409	0.86054	1.722E-08
10402394	20703	20103	Serpina1d	serine (or cyste	Chr12: 103.763587	5.92561178	8.4	Chr10: 122.968582	0.61546	67	0	0.48056	0.70915	4.997E-05
10454015	72747	41752	Ttc39c	tetratricopeptide	Chr18: 12.643783	7.21605882	9.3	Chr13: 55.946904	0.61023	67	0	0	0	1
10368713	215929		AI317395	expressed sequ	Chr10: 40.001580	7.26897646	7.5	Chr15: 28.498377	0.60951	67	0	0	0.32632	0.1037458
10424113	105853	14167	Mal2	mal, T-cell differ	Chr15: 54.571485	5.79743531	13.5	Chr2: 125.878798	0.60925	67	0	0.27423	0.22587	0.2672149
10371054	208677	13080	Creb3l3	cAMP responsiv	Chr10: 81.084326	7.67411764	9.5	Chr2: 94.030822	0.60854	67	0	0.53198	0.69855	7.219E-05
10511429	12319	20861	Car8	carbonic anhyd	Chr4: 8.141493	6.46318822	9.6	Chr9: 115.524788	0.60549	67	0	0.48082	-0.0136	0.9475765
10447264	20532	37289	Slc3a1	solute carrier fa	Chr17: 85.028376	7.03617649	9.6	Chr8: 90.819263	0.60516	67	0	0.4959	0.33113	0.0984562
10402415	380780	28490	Serpina11	serine (or cyste	Chr12: 103.980251	7.32342357	16.1	Chr4: 156.100964	0.60488	67	0	0	0.87099	7.155E-09
10409449	58992	425	F12	coagulation fact	Chr13: 55.417966	7.05282354	10.1	Chr15: 37.462412	0.60314	67	0	0.51186	0.88875	1.33E-09
10494085	20342	2930	Selenbp2	selenium bindin	Chr3: 94.693566	8.38948236	11.6	Chr12: 114.221947	0.59809	67	0	0.51451	0.36607	0.0658834
10348354	394431		Ugt1a	UDP glucurono	Chr1: 88.025221	7.85763527	12.9	Chr12: 102.993012	0.59733	67	0	0	0	1
10523021	54403	55776	Slc4a4	solute carrier fa	Chr5: 88.934747	6.83948234	10.6	Chr3: 142.634889	0.59577	67	0	0.37542	0.20606	0.312526
10599826	14071	106	F9	coagulation fact	ChrX: 59.999464	5.82642354	7.6	Chr15: 73.734284	0.59111	67	0	0.52446	0.88888	1.313E-09
10424686	223631		BC025446	cDNA sequence	Chr15: 75.216592	6.33524707	9.2	ChrX: 61.058643	0.58909	67	0	0	0.53283	0.00507
10492174	229302	3393	Tm4sf4	transmembrane	Chr3: 57.425459	6.68743533	13.4	Chr19: 10.043999	0.5871	67	0	0.37149	0.11209	0.5856275
10467385	433247	74936	Cyp2c68	cytochrome P45	Chr19: 39.688834	4.59874117	9.8	Chr5: 76.145896	0.58654	67	0	0	0	1
10463200	67432	12130	Hoga1	4-hydroxy-2-oxo	Chr19: 42.045851	7.47112943	11	Chr17: 49.557880	0.58456	67	0	0	0	1
10580635	104158	35606	Ces3	carboxylesteras	Chr8: 93.166068	7.15118821	8.3	Chr2: 162.891287	0.58434	67	0	0.49633	0.28798	0.1536886
10383409	14527	131	Gcgr	glucagon recep	Chr11: 120.530789	7.15790588	12.4	Chr19: 23.165770	0.58427	67	0	0.50942	0.7891	1.664E-06
10539990	243537	76629	Uroc1	urocanase dom	Chr6: 90.333306	7.49052942	12.3	Chr2: 5.653007	0.58411	67	0	0	0.71443	4.136E-05

10362511	14864	37356	Gstm3	glutathione S-tr	Chr10: 34.898256	8.07431767	11.7	ChrX: 71.941907	0.58301	67	0	0.50962	0.11713	0.5687739
10577517	18408	6957	Slc25a15	solute carrier fa	Chr8: 22.376007	8.18223531	9.2	Chr1: 92.373273	0.581	67	0	0.35572	0.54412	0.0040595
10573626	108682	68832	Gpt2	glutamic pyruva	Chr8: 85.492585	7.58137647	8.8	Chr14: 55.622689	0.57828	67	0	0.51487	0.38799	0.0501654
10568169	67375	8623	Qprt	quinolinate pho	Chr7: 127.107770	7.98471766	9.1	Chr5: 125.699278	0.57488	67	0	0	0.65258	0.0003024
10418747	56794	5794	Hacl1	2-hydroxyacyl-(	Chr14: 31.607226	9.20328238	11.8	Chr7: 135.314535	0.57453	67	0	0.4223	0.74567	1.232E-05
10535776	231903	82563	Prhoxnb	parahox cluster	Chr5: 147.314984	8.00325882	8.5	Chr1: 178.015151	0.57423	67	0	0.40303	0.85182	3.401E-08
10560431	15377	3308	Foxa3	forkhead box A3	Chr7: 19.013283	6.74371761	14.3	Chr8: 3.500000	0.57386	67	0	0.53827	0.51701	0.0068395
10500545	15496	104115	Hsd3b5	hydroxy-delta-5	Chr3: 98.618634	6.04614118	10	Chr3: 137.344013	0.57376	67	0	0.40456	0.90526	2.113E-10
10597592	235674	91131	Acaa1b	acetyl-Coenzym	Chr9: 119.148043	6.68425884	10.4	Chr2: 92.415016	0.57335	67	0	0.54891	0.44178	0.0238511
10513497	17841	74304	Mup2	major urinary pr	Chr4: 61.300961	6.80201178	9.3	Chr12: 55.321781	0.5695	67	0	0.37417	0	1
10560614	11425	1245	Apoc4	apolipoprotein (	Chr7: 19.678094	7.82372945	8.8	Chr10: 65.500000	0.56749	67	0	0.47099	0.82948	1.623E-07
10402360	217847	9414	Serpina10	serine (or cyste	Chr12: 103.614786	7.48738823	10.2	Chr13: 67.497240	0.56657	67	0	0.58346	0.83218	1.36E-07
10608654			Affy_1060865	Affymetrix Mous	ChrUn: 1.000000	6.82996469	6.8	Chr17: 45.390975	0.56643	67	0	0	0	1
10345065	14859	37355	Gsta3	glutathione S-tr	Chr1: 21.240589	8.40758822	8.5	Chr9: 48.069655	0.56641	67	0	0.57357	0.4773	0.0136759
10558673	13106	68089	Cyp2e1	cytochrome P45	Chr7: 140.763739	7.90690589	9.9	Chr11: 121.547989	0.56515	67	0	0.55641	0.4333	0.0270183
10438899	71756	19487	Cpn2	carboxypeptidas	Chr16: 30.256381	6.86431766	8.8	Chr4: 4.036026	0.56505	67	0	0	0.8814	2.756E-09
10513467	17841	74304	Mup2	major urinary pr	Chr4: 61.225232	6.99847059	9.1	Chr12: 54.887958	0.56349	67	0	0.37417	0	1
10424105	239447	31381	Colec10	collectin sub-fa	Chr15: 54.410770	6.67972941	11	Chr7: 107.292080	0.56324	67	0	0.44907	0	1
10513512	17840	74304	Mup1	major urinary pr	Chr4: 61.518853	6.47799999	9.4	Chr5: 93.156983	0.55769	67	0	0.45083	0.60342	0.0011005
10513514	17844	74304	Mup5	major urinary pr	Chr4: 61.831319	5.37667057	8.2	Chr7: 95.958777	0.55626	67	0	0.48316	0.53167	0.0051851
10501229	14862	115474	Gstm1	glutathione S-tr	Chr3: 108.012255	9.41982352	9.4	Chr2: 181.008980	0.5559	67	0	0.64707	0.26963	0.1828419
10513504	17841	74304	Mup2	major urinary pr	Chr4: 61.516520	7.2739529	9.5	Chr12: 55.321781	0.55539	67	0	0.37417	0	1
10407876	192136	11681	C7orf10	cDNA sequence	Chr13: 16.857472	6.59145883	8.5	Chr10: 125.489652	0.55416	67	0	0.30844	0.48503	0.0120237
10420362	14619	2975	Gjb2	gap junction pro	Chr14: 57.098611	7.05650589	11.7	Chr8: 95.747331	0.55399	67	0	0.4066	0.26184	0.1963017
10580622	382044	117484	Gm5158	predicted gene	Chr8: 93.073211	7.39247058	14.7	Chr6: 4.327681	0.55393	67	0	0	0	1
10447885	224530	55855	Acat3	acetyl-Coenzym	Chr17: 12.923959	6.13958824	9	Chr19: 42.483433	0.55241	67	0	0.2617	0.77993	2.634E-06
10364222	14317	4848	Ftcd	formiminotransf	Chr10: 76.575667	8.22608237	10.6	Chr18: 73.475369	0.55199	67	0	0.52112	0.76416	5.531E-06
10513428	17841	74304	Mup2	major urinary pr	Chr4: 60.135932	7.19938826	10	Chr12: 55.321781	0.5515	67	0	0.37417	0	1
10364038	103149	9471	Upb1	ureidopropionas	Chr10: 75.407033	7.57282354	10.1	Chr15: 8.299029	0.55035	67	0	0.35088	0.59173	0.0014519
10513472	17841	74304	Mup2	major urinary pr	Chr4: 60.961066	7.29823527	9.8	Chr12: 55.321781	0.55009	67	0	0.37417	0	1
10505266			Affy_1050526	predicted gene	Chr4: 61.609641	4.45559998	8.1	Chr5: 99.299507	0.54931	67	0	0	0	1
10525076	231691	38235	Sds	serine dehydrat	Chr5: 120.476547	7.33602352	6.7	Chr11: 42.371999	0.54867	67	0	0.59813	0.8413	7.314E-08
10409592	16841	1730	Lect2	leukocyte cell-d	Chr13: 56.542464	6.09371766	9.9	Chr7: 70.848220	0.54707	67	0	0.68126	0.47463	0.0142877
10348702	11611	37251	Agxt	alanine-glyoxyla	Chr1: 93.135245	6.42121177	8.5	Chr6: 4.327681	0.54677	67	0	0.64089	0.88705	1.581E-09
10367066	70061	23618	Sdr9c7	4short chain de	Chr10: 127.898535	6.17032944	13.6	Chr6: 4.327681	0.54639	67	0	0.35851	0	1
10388430	20317	1965	Serpinf1	serine (or cyste	Chr11: 75.409769	8.33631767	7.6	Chr18: 74.727226	0.54408	67	0	0.65335	0.4131	0.035947
10449940	64385	81872	Cyp4f14	cytochrome P45	Chr17: 32.905070	6.97263527	11.1	Chr19: 48.670103	0.54294	67	0	0.63955	0.57817	0.0019769
10449712	12411	37258	Cbs	cystathionine be	Chr17: 31.612640	7.9876	7.2	Chr18: 73.475369	0.54212	67	0	0.62526	0.57433	0.0021524
10513437	17841	74304	Mup2	major urinary pr	Chr4: 60.231492	7.29891761	10.1	Chr12: 55.321781	0.54172	67	0	0.37417	0	1
10362186	59012	22904	Moxd1	monooxygenase	Chr10: 24.223517	6.97504704	8.6	Chr13: 54.842814	0.54165	67	0	0.28316	0.01314	0.9491838
10367691	70337	12352	Iyd	iodotyrosine de	Chr10: 3.540255	6.34704706	8.1	ChrX: 64.161107	0.54053	67	0	0.44262	0.47598	0.0139737
10596148	22041	68153	Trf	transferrin	Chr9: 103.208874	11.7819646	14.1	Chr5: 83.628884	0.53985	67	0	0.51249	0.60184	0.0011433
10603746	109731	20251	Maob	monoamine oxi	ChrX: 16.709282	7.05685885	11.4	Chr2: 162.891287	0.53775	67	0	0.66619	0.40827	0.0383954
10348410	75396	5058	Spp2	secreted phosp	Chr1: 88.407019	6.14599998	10.6	Chr11: 107.964395	0.5376	67	0	0.41824	0.65033	0.0003224
10438708	17174	88793	Masp1	mannan-binding	Chr16: 23.449417	7.43262355	9.5	Chr6: 16.982017	0.53563	67	0	0.36715	0.00252	0.9902453
10513455	17841	74304	Mup2	major urinary pr	Chr4: 60.232554	7.30743528	10.2	Chr12: 55.321781	0.53363	67	0	0.37417	0	1
10542470	56615	10544	Mgst1	microsomal glut	Chr6: 138.140537	9.55818825	12.6	Chr15: 73.734284	0.53337	67	0	0.62798	0.43339	0.0269831
10346374	11761	68165	Aox1	aldehyde oxidas	Chr1: 58.029969	7.63338826	9.8	Chr18: 38.156425	0.52956	67	0	0.52192	0.5029	0.0088298
10505438	18405	100534	Orm1	orosomucoid 1	Chr4: 63.344566	7.29930588	10.3	Chr13: 59.180537	0.52776	67	0	0.54385	0.5841	0.0017301
10512892	230161	28287	Acnat1	acyl-coenzyme	Chr4: 49.447329	7.51415293	7.3	Chr19: 22.021238	0.52614	67	0	0.31672	0	1
10512886	209186	28287	Acnat2	acyl-coenzyme	Chr4: 49.379845	5.76681178	7.4	Chr7: 144.433458	0.52561	67	0	0.26929	0	1
10505451	18406	100534	Orm2	orosomucoid 2	Chr4: 63.362449	6.12858823	10.4	Chr9: 95.334029	0.52465	67	0	0.42773	0.79909	9.826E-07
10348000	72792	54780	2810459M11I	RIKEN cDNA 2	Chr1: 86.046268	6.77298824	11	Chr3: 10.094254	0.52429	67	0	0	0.48543	0.0119427
10438769	12737	9620	Cldn1	claudin 1	Chr16: 26.356651	6.49644705	12.1	Chr11: 9.271145	0.52321	67	0	0.40795	0.35597	0.0742948
10363372	69836	11356	Pla2g12b	phospholipase /	Chr10: 59.403662	6.55508235	10.7	Chr13: 59.444841	0.52249	67	0	0.5321	0.60439	0.0010749
10513420	1E+08	74304	Mup7	major urinary pr	Chr4: 60.066470	7.67615296	10.2	Chr12: 55.321781	0.52157	67	0	0	0	1
10362138	22361	32130	Vnn1	vanin 1	Chr10: 23.894857	6.74167059	8.8	Chr4: 46.276115	0.52135	67	0	0.70951	-0.0236	0.908964
10514779	108079	4551	Prkaa2	protein kinase, /	Chr4: 105.034990	6.99783528	6.2	Chr5: 127.781724	0.5195	67	0	0.44492	0.04713	0.8191459
10392601	76184	71264	Abca6	ATP-binding ca	Chr11: 110.176820	6.62435292	7.4	Chr1: 91.097803	0.51809	67	0	0.20638	0.69952	6.984E-05
10420165	12684	7666	Cideb	cell death-induc	Chr14: 55.754045	7.29751764	10.9	Chr7: 137.867812	0.51753	67	0	0.51713	0.44179	0.0238455
10596433	235582	14738	Glyctk	glycerate kinase	Chr9: 106.152857	8.17440005	15.4	Chr5: 118.918193	0.51511	67	0	0.35544	0.53737	0.0046411
10423030	19116	733	Prlr	prolactin recept	Chr15: 10.177238	6.401	9.2	Chr19: 25.666449	0.51506	67	0	0.52473	0.2696	0.1828836
10358299	214403		Cfhrc	complement cor	Chr1: 139.546985	5.37728232	7.3	Chr7: 78.407671	0.51437	67	0	0.33163	0	1
10570280	14068	7710	F7	coagulation fact	Chr8: 13.026034	7.24595292	8.8	Chr12: 29.272288	0.51385	67	0	0.56747	0.83332	1.261E-07
10371784	20186	3760	Nr1h4	nuclear recepto	Chr10: 89.454378	6.31637646	11	Chr6: 134.621785	0.51362	67	0	0.46712	0.52179	0.0062571
10574545	234673	86210	Ces5	carboxylesteras	Chr8: 104.926270	6.61127061	11.8	Chr2: 93.321195	0.51316	67	0	0.4188	0.3017	0.1341646
10541441	381806		Gm10319	predicted pseud	Chr6: 122.136628	4.53934116	7.1	Chr19: 59.407551	0.51214	67	0	0	0	1
10494565	14263	68185	Fmo5	flavin containing	Chr3: 97.628875	8.90010587	10.2	Chr2: 116.722033	0.51073	67	0	0.53332	0.35198	0.0778341
10393177	11430	38299	Acox1	acyl-Coenzyme	Chr11: 116.171888	9.85381174	20.6	Chr11: 116.216977	0.50987	67	0	0.59272	0.52752	0.0056157
10556701	272428	69242	Acsm5	acyl-CoA synthe	Chr7: 119.526265	6.99171764	8.6	Chr19: 37.437992	0.50641	67	0	0	0	1
10447239	67470	23361	Abcg8	ATP-binding ca	Chr17: 84.683131	6.85705881	7.6	ChrX: 144.000000	0.50427	67	0	0.4681	0.68662	0.0001073
10421309	213053	15037	Slc39a14	solute carrier fa	Chr14: 70.303207	8.16098824	11.5	Chr9: 81.020335	0.50122	67	0	0.56104	0.5666	0.0025458
10539143	67442	41195	Retsat	retinol saturase	Chr6: 72.598628	8.31015293	10.6	Chr9: 30.479878	0.50083	67	0	0.58319	0.38707	0.0507589
10432939	246277	41086	Csad	cysteine sulfinic	Chr15: 102.176998	9.01243524	11.4	Chr17: 44.087915	0.49996	67	0	0.61955	0.43064	0.0280783
10505249			Affy_1050524	Affymetrix Mous	Chr4: 60.518829	4.67498821	9.2	Chr17: 66.436199	0.49912	67	0	0	0	1
10358330	545366	105394	BC026782	cDNA sequence	Chr1: 139.804167	4.91061177	10.9	Chr10: 86.193659	0.49784	67	0	0.33163	0.81874	3.185E-07
10556769	20216	74559	Acsm3	acyl-CoA synthe	Chr7: 119.760923	6.00349413	11.5	Chr9: 31.156625	0.49731	67	0	0.53048	0.34467	0.0846497
10386683	67473	34364	Slc47a1	solute carrier fa	Chr11: 61.343400	7.59708235	11.9	ChrX: 61.058643	0.49659	67	0	0.57148	0.24545	0.2268084
10559297	18400	1918	Slc22a18	solute carrier fa	Chr7: 143.473755	8.1807765	8.7	Chr11: 50.745266	0.49581	67	0	0.34843	0.26836	0.184992
10587323	14857	74378	Gsta1	glutathione S-tr	Chr9: 78.230686	5.87367058	14.6	Chr1: 25.700998	0.49547	67	0	0.53583	0.16773	0.4127633
10578448	102294	70433	Cyp4v3	cytochrome P45	Chr8: 45.269442	8.37607057	8.5	Chr17: 8.199407	0.49467	67	0	0.49358	0.64275	0.0003985
10404097	105355	21319	Slc17a3	solute carrier fa	Chr13: 23.839460	6.01398821	9.4	Chr10: 74.666299	0.49359	67	0	0.39271	0.39478	0.0459444
10591653	235043	43895	Tmem205	transmembrane	Chr9: 21.921007	8.37491764	11	Chr5: 131.541036	0.49341	67	0	0	0	1
10367059	216454	74505	BC089597	cDNA sequence	Chr10: 127.866476	7.04732943	9.9	Chr7: 70.848220	0.48996	67	0	0	0	1
10395925	338320	14275	Mia2	melanoma inhib	Chr12: 59.095800	6.7943294	44	Chr12: 58.970030	0.48954	67	0	0.60825	0.66543	0.0002076
10359571	14261	55520	Fmo1	flavin containing	Chr1: 162.829557	7.81047061	12.9	Chr1: 161.981980	0.48922	67	0	0.63082	0.32055	0.1103626
10402981	380792		Gm900	predicted gene	Chr12: 113.271180	7.94461176	16.4	Chr17: 45.390975	0.48835	67	0	0.33428	0	1
10510025	75986	99855	Agmat	agmatine ureoh	Chr4: 141.746778	7.6571647	12.1	Chr4: 156.121747	0.48784	67	0	0	0.7879	1.769E-06
10577645	209176	48830	Ido2	indoleamine 2,3	Chr8: 24.532454	7.4229294	10.1	Chr9: 98.579310	0.4873	67	0	0.54113	0	1
10606928	331535	20113	Serpina7	serine (or cyste	ChrX: 139.079781	5.43544704	6.8	Chr6: 16.056743	0.4857	67	0	0.53796	0.86424	1.271E-08
10465342	73166	68305	Tm7sf2	transmembrane	Chr19: 6.062821	8.69012943	10.6	Chr7: 119.176160	0.4846	67	0	0.60121	0	1
10457475	106861	14055	Abhd3	abhydrolase do	Chr18: 10.644411	7.03463531	12.4	Chr8: 3.500000	0.48302	67	0	0.37142	0.43806	0.0252007

10496605	229905	2994	Ccbl2	cysteine conjug	Chr3: 142.701075	7.8764588	11.6	Chr3: 148.065034	0.48039	67	0	0.5586	0.56101	0.0028679
10474307	74088	105742	0610012H03F	RIKEN cDNA 0(	Chr2: 105.224344	7.60236472	10.6	Chr17: 40.571109	0.48027	67	0	0	0.41687	0.0341235
10590149	102448	3746	Xylb	xylulokinase ho	Chr9: 119.357381	7.38877648	9.1	Chr7: 27.524276	0.47955	67	0	0	0.45998	0.0180601
10511665	69352	11172	Necab1	N-terminal EF-h	Chr4: 14.952245	6.77330588	8.7	Chr7: 19.429957	0.47897	67	0	0.27818	0.47191	0.0149331
10505237			Affy_1050523	Affymetrix Mous	Chr4: 60.087208	4.68669411	9.6	Chr18: 30.425700	0.47875	67	0	0	0	1
10398299	104910	64441	Slc25a47	solute carrier fa	Chr12: 108.851129	7.88076473	7.5	Chr10: 74.666299	0.47662	67	0	0.43207	0	1
10569113	72040		Cdhr5	cadherin-relate	Chr7: 141.269083	6.99838822	10.1	Chr7: 14.544160	0.47484	67	0	0.27679	0	1
10384378	13195	618	Ddc	dopa decarboxy	Chr11: 11.814103	7.14357651	10.7	Chr17: 16.345499	0.47366	67	0	0.59108	0.36655	0.065497
10496727	69219	8120	Ddah1	dimethylarginine	Chr3: 145.758727	7.71015295	9.2	ChrX: 64.161107	0.47258	67	0	0.69644	0.30953	0.1238697
10531910	243168	71549	Hsd17b13	hydroxysteroid (	Chr5: 103.954990	7.24477648	9.2	Chr4: 57.500003	0.4716	67	0	0.49497	0	1
10571321	244416	11615	Ppp1r3b	protein phospha	Chr8: 35.375741	7.58883531	8.5	Chr16: 96.348925	0.46971	67	0	0.52915	0.31377	0.1185352
10373834	103655	68807	Sec14l4	SEC14-like 4 (S	Chr11: 4.031782	6.67517648	10.1	Chr6: 4.327681	0.46953	67	0	0.71381	0.39496	0.045836
10467162	75735	56979	Pank1	pantothenate ki	Chr19: 34.810894	8.75443535	13.2	Chr19: 48.005580	0.46779	67	0	0.57863	0.29825	0.1388975
10426685	72778	11777	Dnajc22	DnaJ (Hsp40) h	Chr15: 99.099484	7.03305884	7.9	Chr6: 16.056743	0.46689	67	0	0.37606	0	1
10558742	101613	15881	Nlrp6	NLR family, pyri	Chr7: 140.921058	7.83055294	13.5	Chr5: 118.918193	0.46639	67	0	0.49908	0.42619	0.0299304
10366707	54140	568	Avpr1a	arginine vasopr	Chr10: 122.448499	8.07956473	14.5	Chr17: 16.345499	0.46596	67	0	0.52716	0.24461	0.2284672
10363455	13180	57028	Pcbd1	pterin 4 alpha c	Chr10: 61.089359	7.85242354	10.1	Chr11: 107.133181	0.46407	67	0	0.39747	0.5837	0.0017461
10508887	23957	8030	Nr0b2	nuclear recepto	Chr4: 133.553380	7.20607057	9.6	Chr4: 132.619876	0.46273	67	0	0.51705	0.08473	0.680699
10581865	52815	5536	Ldhd	lactate dehydro	Chr8: 111.613930	7.59029414	7	Chr1: 133.975583	0.46201	67	0	0.32374	0.27549	0.1731365
10494643	15360	38066	Hmgcs2	3-hydroxy-3-me	Chr3: 98.280435	9.74703526	12.3	Chr19: 7.263405	0.46163	67	0	0.58119	0.56026	0.0029138
10397507	14874	7747	Gstz1	glutathione tran	Chr12: 87.147718	8.37491762	9.3	Chr9: 30.479878	0.46035	67	0	0.6628	0.48468	0.0120947
10373197	16325	21142	Inhbc	inhibin beta-C	Chr10: 127.356320	7.2334	13.3	Chr15: 7.167980	0.4598	67	0	0.46467	0.89127	1.024E-09
10501208	14867	117950	Gstm6	glutathione S-tr	Chr3: 107.938847	5.9662353	10	Chr10: 123.469006	0.45899	67	0	0.41904	0.37775	0.0570935
10464583	14870	122186	Gstp1	glutathione S-tr	Chr19: 4.035407	11.4972588	11.2	Chr13: 35.873691	0.45876	67	0	0.64854	0.55763	0.0030786
10597470	70031	12345	Cmtm8	CKLF-like MAR	Chr9: 114.789345	7.7158588	10.7	ChrX: 61.058643	0.45531	67	0	0.17549	0.3236	0.1068227
10463037	13098	117948	Cyp2c39	cytochrome P45	Chr19: 39.510871	5.56889411	9.4	Chr9: 48.080531	0.45495	67	0	0.52759	0.82436	2.252E-07
10565315	14085	110	Fah	fumarylacetoac	Chr7: 84.585159	7.86505883	32.7	Chr7: 85.068913	0.45455	67	0	0.64811	0.5203	0.0064343
10401473	104776	4082	Aldh6a1	aldehyde dehyd	Chr12: 84.430717	9.09344705	8.1	Chr15: 73.734284	0.45388	67	0	0.51036	0.09705	0.6372023
10358339	12628	20086	Cfh	complement cor	Chr1: 140.085855	8.77385884	10.9	Chr17: 55.293006	0.4526	67	0	0.55474	0.42353	0.0310802
10467897	226143	115563	Cyp2c44	cytochrome P45	Chr19: 44.005022	6.30915294	10.3	Chr19: 37.437992	0.45257	67	0	0.55539	0.7681	4.621E-06
10425987	19013	21047	Ppara	peroxisome pro	Chr15: 85.735776	7.16735294	11.2	Chr14: 99.694520	0.45196	67	0	0.39807	0.65062	0.0003197
10374223	16006	498	Igfbp1	insulin-like grov	Chr11: 7.197779	6.79332942	12	Chr12: 86.105698	0.45172	67	0	0.54043	0.48339	0.0123591
10387648	380705	86820	Tmem102	transmembrane	Chr11: 69.803603	6.70255295	9.9	Chr9: 108.500600	0.45164	67	0	0.31999	0.08157	0.6920056
10377847	216871	51691	Gltpd2	glycolipid transf	Chr11: 70.519196	7.2490706	13.1	Chr4: 156.121747	0.45136	67	0	0	0.86632	1.069E-08
10575685	67528	41564	Nudt7	nudix (nucleosid	Chr8: 114.133615	8.37935298	43.2	Chr8: 113.705035	0.44738	67	0	0.49512	0.58833	0.0015707
10509596	66825	10404	Rnf186	ring finger prote	Chr4: 138.967117	6.60189413	8	Chr16: 56.230191	0.44395	67	0	0	0.02733	0.8945717
10605848	278180	48515	Vsig4	V-set and immu	ChrX: 96.247201	6.1871412	9.1	Chr11: 121.547989	0.44353	67	0	0.50244	0.62291	0.0006767
10549025	28254	23416	Slco1a6	solute carrier or	Chr6: 142.085761	5.37507056	8.1	Chr14: 59.764834	0.44184	67	0	0.40523	0.19361	0.3432986
10556828	72074	49898	Anks4b	ankyrin repeat a	Chr7: 120.173876	6.84614118	13.3	Chr4: 3.390023	0.43809	67	0	0.24703	0	1
10553430	104245	37901	Slc6a5	solute carrier fa	Chr7: 49.910146	6.81644706	12.4	Chr6: 4.327681	0.4376	67	0	0.46486	0.18648	0.3617056
10433887	67451	3364	Pkp2	plakophilin 2	Chr16: 16.213345	7.0732941	12.9	Chr15: 28.264634	0.43382	67	0	0.43498	0.11952	0.5608794
10408861	109254	13107	9530008L14F	RIKEN cDNA 95	Chr13: 41.763148	6.47215293	6.6	Chr14: 81.380779	0.43238	67	0	0	0.36659	0.0654654
10506767	52430	23088	Echdc2	enoyl Coenzym	Chr4: 108.165491	7.32808238	8.3	Chr7: 14.544160	0.43145	67	0	0	0.34837	0.0811456
10528102	74114	10899	Crot	carnitine O-octa	Chr5: 8.966038	9.93284707	10.8	ChrX: 37.500000	0.43057	67	0	0.43123	0.66622	0.0002028
10400984	238257	90919	Tmem30b	transmembrane	Chr12: 73.543114	6.98837648	9.8	Chr11: 100.412031	0.42552	67	0	0	-0.0944	0.6464279
10396936	64075	56943	Smoc1	SPARC related	Chr12: 81.026828	7.11647058	11.9	Chr15: 3.977909	0.42274	67	0	0.44809	0.54128	0.0042962
10594812	15450	199	Lipc	lipase, hepatic	Chr9: 70.798126	7.8967765	15.1	Chr2: 63.876266	0.42253	67	0	0.58338	0.28868	0.152648
10531073	100559	84333	Ugt2b38	UDP glucurono	Chr5: 87.409939	5.94972944	8	Chr16: 27.062879	0.42234	67	0	0	-0.057	0.7820559
10402399	20702	20103	Serpina1c	serine (or cyste	Chr12: 103.853459	7.74220002	76.3	Chr12: 103.283977	0.42162	67	0	0.56514	0	1
10466008	225913	56710	Dak	dihydroxyaceto	Chr19: 10.592197	8.65775291	14	Chr19: 27.531578	0.42156	67	0	0.60576	0.4237	0.0310071
10400605	238217	68830	Rpl10l	ribosomal prote	Chr12: 66.283713	7.13503529	10.3	Chr8: 21.946965	0.4215	67	0	0.33941	0	1
10497045			Affy_1049704	Affymetrix Mous	Chr3: 155.514576	8.39382348	13.9	Chr16: 26.422169	0.42137	67	0	0	0	1
10454198	67664		Rnf125	ring finger prote	Chr18: 20.944625	8.72585886	13.1	Chr13: 22.380465	0.41896	67	0	0.21944	0.39536	0.0455961
10407445	622402	121639	Akr1c12	aldo-keto reduc	Chr13: 4.268172	6.28990589	13.5	Chr1: 179.922241	0.41379	67	0	0.49353	0.44252	0.0235896
10501372			Affy_1050137	Affymetrix Mous	Chr3: 108.451268	7.51052946	6.5	Chr7: 4.844959	0.41349	67	0	0	0	1
10602009	66889	11337	Rnf128	ring finger prote	ChrX: 139.610620	6.53600002	11.1	Chr14: 89.511630	0.41304	67	0	0.49898	0.39575	0.0453662
10599200	53328	48457	Pgrmc1	progesterone re	ChrX: 36.598225	9.49697649	7.4	Chr18: 62.994019	0.41259	67	0	0.44905	0.45422	0.0197537
10434934	71911	20860	Bdh1	3-hydroxybutyra	Chr16: 31.422294	8.45249415	7.7	Chr11: 103.489863	0.41224	67	0	0	0.20326	0.3193057
10439411	18171	40757	Nr1i2	nuclear recepto	Chr16: 38.248351	6.97872942	14.2	Chr6: 134.573132	0.41206	67	0	0.444	0.43258	0.0273033
10602033	12738	9621	Cldn2	claudin 2	ChrX: 139.800828	5.99825884	10.7	Chr15: 8.299029	0.41102	67	0	0.45664	0.29947	0.1372043
10523111	622307	46080	5830473C10F	RIKEN cDNA 5(	Chr5: 90.561218	5.73082352	12	Chr6: 148.827869	0.41094	67	0	0.37406	0	1
10560608	11813	47928	Apoc2	apolipoprotein (	Chr7: 19.671584	7.53368231	12.6	Chr15: 12.672705	0.41076	67	0	0.53296	0.76663	4.942E-06
10339593			Affy_1033959	Affymetrix Mous	ChrUn: 1.000000	7.73145878	9.8	Chr14: 59.768104	-0.4103	67	0	0	0	1
10588357	102632	49896	Acad11	acyl-Coenzyme	Chr9: 104.063703	8.67019997	8.4	Chr4: 152.468585	0.4101	67	0	0.31598	0.29914	0.1376669
10373372	210582	27027	Coq10a	coenzyme Q10	Chr10: 128.368699	8.56375293	12.8	Chr5: 118.918193	0.40967	67	0	0.29108	0.02608	0.8993799
10403312	432720	115684	Akr1c19	aldo-keto reduc	Chr13: 4.233740	5.97764705	10.4	ChrX: 24.000000	0.4086	67	0	0	0.27733	0.1701672
10358324	624286		Cfhr3	complement fac	Chr1: 139.575185	4.98491765	9.7	Chr1: 67.777157	0.4084	67	0	0	0	1
10481435	70266	37872	Ccbl1	cysteine conjug	Chr2: 30.185128	8.42628233	18.2	Chr19: 7.263405	0.40831	67	0	0.55524	0.24452	0.2286373
10542953	21789	38194	Tfpi2	tissue factor pat	Chr6: 3.962585	7.48284705	11.4	Chr2: 147.564643	0.40751	67	0	0.54306	0.01293	0.9500283
10479902	209692	10278	Dhtkd1	dehydrogenase	Chr2: 5.896115	7.02907056	9.9	Chr12: 31.211373	0.40622	67	0	0	0.5946	0.0013577
10428081	15473	4261	Hrsp12	heat-responsive	Chr15: 34.484021	9.82895296	9.3	Chr17: 64.993854	0.40576	67	0	0.36946	0.56568	0.0025966
10369040	19886	2207	Ros1	Ros1 proto-onc	Chr10: 52.045926	6.43917651	13.3	Chr6: 4.327681	0.40317	67	0	0.57787	-0.1291	0.5296634
10472199	76654	12654	Upp2	uridine phospho	Chr2: 58.567387	6.12652944	10	Chr15: 83.114394	0.40212	67	0	0.39985	0.79557	1.187E-06
10453318	27409	31909	Abcg5	ATP-binding ca	Chr17: 84.658234	6.64081175	7.4	Chr17: 16.345499	0.40055	67	0	0.47231	0.60638	0.0010242
10373192	16326	7381	Inhbe	inhibin beta E	Chr10: 127.349402	6.47329412	13.4	Chr15: 7.167980	0.39988	67	0	0.47083	0.87081	7.268E-09
10361152	14869	122186	Gstp2	glutathione S-tr	Chr1: 192.073733	9.71384707	12.7	Chr1: 193.481242	0.39974	67	0	0.64396	0	1
10430899	71754		Cyp2d40	cytochrome P45	Chr15: 82.759833	7.88485888	12.2	Chr19: 25.666449	0.39943	67	0	0	0.86562	1.133E-08
10430904			Affy_104309(	Affymetrix Mous	Chr15: 82.777860	6.41507057	9.8	Chr14: 74.919381	0.39754	67	0	0	0	1
10474171	13711	7702	Elf5	E74-like factor 5	Chr2: 103.424077	6.84221177	9.4	Chr11: 104.670154	0.39741	67	0	0.47884	-0.2523	0.2137582
10581455	77411	32617	Esrp2	epithelial splicir	Chr8: 106.130402	7.33608234	11.8	Chr7: 36.449783	0.39718	67	0	0.33434	0	1
10563314	71755	8709	Dhdh	dihydrodiol deh	Chr7: 45.473563	8.4248353	15.5	Chr10: 30.710842	0.39636	67	0	0.28463	0.5747	0.0021347
10464586	14869	122186	Gstp2	glutathione S-tr	Chr19: 4.040294	9.69620001	12.3	Chr1: 193.481242	0.39596	67	0	0.64396	0	1
10435733	207683	17613	Igsf11	immunoglobulin	Chr16: 38.902345	7.87492941	10.4	Chr10: 111.073834	0.39469	67	0	0.31912	0.45555	0.0193521
10495820	14079	107	Fabp2	fatty acid bindin	Chr3: 122.895376	5.60040002	9.4	Chr15: 8.299029	0.39377	67	0	0.63321	0.23407	0.2497698
10578427	109821	86654	F11	coagulation fact	Chr8: 45.241170	6.28309411	13.4	Chr4: 155.860937	0.39261	67	0	0.52329	0.89492	6.932E-10
10587331	14857	74378	Gsta1	glutathione S-tr	Chr9: 78.257142	6.0081647	15.6	Chr1: 25.700998	0.39257	67	0	0.53583	0.16773	0.4127633
10444841	15007	115651	H2-Q10	histocompatibili	Chr17: 35.470089	7.37267059	9	Chr5: 131.541036	0.39076	67	0	0.32924	0.85917	1.922E-08
10521537	231162	10254	Cytl1	cytokine-like 1	Chr5: 37.735548	7.66735293	15.1	Chr4: 5.599068	0.38996	67	0	0.4926	-0.2409	0.2358303
10374448			Affy_1037444	U6 small nuclea	Chr11: 18.738703	5.1902706	13.1	Chr1: 80.783678	-0.3889	67	0	0	0	1
10557782	101502	41617	Hsd3b7	hydroxy-delta-5	Chr7: 127.800609	8.72921183	13.5	Chr11: 52.520308	0.38817	67	0	0.47763	0.60772	0.0009913
10517609	72269	1352	Cda	cytidine deamin	Chr4: 138.338528	7.63788233	9.8	Chr14: 30.957748	0.38726	67	0	0.52889	0.23449	0.2489076
10433445	268860	542	Abat	4-aminobutyrate	Chr16: 8.513489	8.95314116	8.7	Chr5: 53.039935	0.38601	67	0	0.54141	0.49507	0.0101293

10552672	68352	41692	Aspdh	aspartate dehyd	Chr7: 44.464893	7.60557647	16.2	Chr4: 156.121747	0.38598	67	0	0	0	1
10515115	230612	17081	Slc5a9	solute carrier fa	Chr4: 111.876273	7.13796474	9.5	Chr11: 50.383261	0.38595	67	0	0.36658	-0.2479	0.2221021
10430851	56448	68036	Cyp2d22	cytochrome P45	Chr15: 82.371472	9.01572941	10.1	Chr2: 92.415016	0.38511	67	0	0.48683	0.65014	0.0003242
10499958	383891		Gm5278	predicted pseud	Chr3: 93.433197	8.41635297	9.9	Chr16: 76.657597	0.38467	67	0	0	0	1
10545731	51811	9630	Clec4f	C-type lectin do	Chr6: 83.644542	7.12350589	10.8	Chr11: 76.924764	0.38463	67	0	0.33236	0.86984	7.907E-09
10494423	69585	17060	Hfe2	hemochromatos	Chr3: 96.525172	7.56238821	12.1	Chr9: 59.987365	0.38373	67	0	0.50554	0.0206	0.9204404
10447645	76116		5830477G23I	RIKEN cDNA 58	Chr17: 7.406057	8.52069416	12.6	Chr5: 118.918193	0.38346	67	0	0	0.0833	0.6858015
10367154	216456	40861	Gls2	glutaminase 2 (	Chr10: 128.194683	7.35892942	8.2	Chr15: 96.200659	0.38279	67	0	0.58544	0.78952	1.628E-06
10414537	11727	74385	Ang	angiogenin, ribo	Chr14: 51.091117	8.32829411	20.2	Chr15: 73.734284	0.38235	67	0	0.6134	0	1
10363629	68371	41470	Pbld	phenazine biosy	Chr10: 63.060713	7.94452934	7.4	Chr4: 3.390023	0.38214	67	0	0.26983	0.59037	0.0014984
10343711			Affy_1034371	Affymetrix Mous	ChrUn: 1.000000	4.33390588	13.1	Chr12: 113.258515	-0.3815	67	0	0	0	1
10373832			Affy_1037383	predicted gene	Chr11: 4.002457	5.74917647	10.3	Chr9: 113.180166	-0.381	67	0	0	0	1
10588883	434437	409	Amt	aminomethyltra	Chr9: 108.296922	7.62150586	9.4	Chr1: 126.729134	0.38025	67	0	0.48865	0.48026	0.0130221
10506269	11639	100316	Ak4	adenylate kinas	Chr4: 101.419290	7.44525883	11.1	Chr15: 3.977909	0.37955	67	0	0.41536	0	1
10368317	209558	3683	Enpp3	ectonucleotide	Chr10: 24.773902	6.88883529	13.7	Chr9: 97.321105	0.37948	67	0	0.42986	0.48753	0.0115266
10582069	74032	23654	Sdr42e1	short chain deh	Chr8: 117.661399	7.47108235	13.8	Chr5: 123.165952	0.3794	67	0	0	0	1
10490621	20811	7957	Srms	src-related kina	Chr2: 181.205563	7.64296467	9.9	Chr4: 156.121747	0.37712	67	0	0.32212	-0.0743	0.718169
10587082	15379	3309	Onecut1	one cut domain,	Chr9: 74.861921	7.23916472	15.5	Chr7: 36.693524	0.37651	67	0	0.45624	0.05192	0.8011193
10576386	69581	49663	Rhou	ras homolog ge	Chr8: 123.653929	8.48725883	9.8	Chr11: 13.674417	0.37648	67	0	0.42417	0.23045	0.2573794
10543031	50799	22800	Slc25a13	solute carrier fa	Chr6: 6.041218	8.32578828	10.7	Chr16: 77.576397	0.37586	67	0	0.64405	0.32205	0.1086162
10541333	14411	2292	Slc6a12	solute carrier fa	Chr6: 121.346697	7.63189411	13.2	Chr19: 23.946801	0.37569	67	0	0.49926	0.67512	0.0001545
10402473	94040	11683	Clmn	calmin	Chr12: 104.763114	6.36542352	8.5	Chr10: 116.134021	0.37526	67	0	0.42301	0.17699	0.3870608
10489562	75642	15415	1700020C07I	RIKEN cDNA 17	Chr2: 164.827382	7.67359998	13.1	Chr2: 100.989316	0.37523	67	0	0.4085	-0.0497	0.8095159
10455514	140492	23150	Kcnn2	potassium inter	Chr18: 45.269005	6.32717647	13.2	Chr4: 156.183776	0.37421	67	0	0.4293	0.40772	0.0386835
10498710	12038	20065	Bche	butyrylcholinest	Chr3: 73.635808	6.19160001	11.6	Chr3: 33.754175	0.37413	67	0	0.47071	0.4413	0.0240193
10370054	64454	56968	Slc5a4b	solute carrier fa	Chr10: 76.058621	6.69445884	12	Chr12: 54.578419	0.37357	67	0	0.5069	-0.0761	0.7118145
10556718	233799	70404	Acsm2	acyl-CoA synthe	Chr7: 119.554469	6.37036468	8	Chr8: 80.460107	0.37343	67	0	0	-0.0531	0.7968478
10344725	76187	5865	Adhfe1	alcohol dehydro	Chr1: 9.548080	7.69512945	26.4	Chr1: 5.119671	0.37333	67	0	0.25847	0.35575	0.0744808
10344713	269378	554	Ahcy	S-adenosylhom	Chr1: 7.177739	11.1109177	10	Chr18: 89.380001	0.3732	67	0	0.64929	0.58889	0.0015507
10405448	20505	20663	Slc34a1	solute carrier fa	Chr13: 55.398187	7.43280002	12	Chr11: 106.796247	0.37195	67	0	0.4568	-0.0918	0.6556123
10485466	12359	55514	Cat	catalase	Chr2: 103.453907	11.3341294	14.3	Chr6: 5.301296	0.37161	67	0	0.66579	0.41008	0.0374609
10457663			Affy_1045766	predicted gene	Chr18: 16.839317	6.67735292	9.6	Chr5: 126.889866	0.37111	67	0	0	0	1
10427402	14600	134	Ghr	growth hormone	Chr15: 3.317760	8.48282356	11.4	Chr12: 116.782726	0.37085	67	0	0.519	0.26215	0.1957577
10409278	18030	3928	Nfil3	nuclear factor, i	Chr13: 52.967209	7.93570587	12.5	Chr17: 22.879168	0.37067	67	0	0.49214	0.245	0.2276992
10425723	76505	85854	1500009C09I	RIKEN cDNA 15	Chr15: 82.256122	8.15956473	11.4	Chr3: 3.074240	0.37026	67	0	0	0	1
10493631			mir-190b	Affymetrix Mous	Chr3: 90.070025	4.65849411	12	Chr3: 155.541974	-0.37	67	0	0	0	1
10415875	72400	31531	Pinx1	PIN2/TERF1 int	Chr14: 63.860364	9.29257644	8.4	Chr19: 42.483433	-0.3689	67	0	0.37487	-0.1558	0.4471242
10554752	50490	41065	Nox4	NADPH oxidase	Chr7: 87.246795	6.30021176	11.3	Chr1: 93.673177	0.36862	67	0	0.61335	0.31676	0.1148825
10468046	16814	4784	Lbx1	ladybird homeo	Chr19: 45.233645	8.15882352	11.1	Chr1: 192.141559	0.36851	67	0	0.35616	-0.0716	0.7280238
10423090	17117	7410	Amacr	alpha-methylacy	Chr15: 10.981756	7.85981175	10.8	Chr1: 60.644128	0.36845	67	0	0.57887	0.40889	0.0380738
10400479	18094	7444	Nkx2-9	NK2 transcriptio	Chr12: 56.611393	7.91814115	11.8	Chr4: 4.036026	0.36795	67	0	0.35382	0.2268	0.2652123
10584047	30806	5108	Adamts8	a disintegrin-like	Chr9: 30.942562	7.81335295	11.7	Chr2: 9.000000	0.36775	67	0	0.50369	-0.0818	0.6913337
10424979	76282	91040	Gpt	glutamic pyruvi	Chr15: 76.696733	7.71056472	8.2	ChrX: 64.161107	0.36763	67	0	0.62862	0	1
10381528	217214	77363	Nags	N-acetylglutam	Chr11: 102.145513	7.71704707	8.4	Chr11: 101.250880	0.36705	67	0	0.63313	0.67719	0.0001449
10559580	53420	55722	Syt5	synaptotagmin	Chr7: 4.539765	7.59367058	11.2	Chr11: 42.818374	0.36671	67	0	0.36053	-0.069	0.7378289
10583992	235086	19472	Igsf9b	immunoglobulin	Chr9: 27.299228	7.6924235	12.6	Chr9: 62.264541	0.36629	67	0	0.24611	0.3985	0.0437551
10442625	16005	37987	Igfals	insulin-like grow	Chr17: 24.878770	7.53285884	10.2	Chr9: 24.616289	0.36619	67	0	0.58792	0.50032	0.0092415
10471154	11898	6899	Ass1	argininosuccina	Chr2: 31.470270	9.98898821	12.3	Chr15: 73.734284	0.36534	67	0	0.72833	0.62076	0.000715
10526241	12739	1001	Cldn3	claudin 3	Chr5: 134.986214	8.35403533	9.4	Chr1: 192.141559	0.3653	67	0	0.46482	0.20021	0.3267665
10528617	231044	41063	Gbx1	gastrulation bra	Chr5: 24.504426	7.83777649	13.1	Chr5: 125.699278	0.36522	67	0	0.28173	-0.2045	0.3162699
10587339	1E+08	74378	Gm10639	predicted gene	Chr9: 78.289958	6.53792941	8.8	Chr1: 192.154974	0.36508	67	0	0	0	1
10418982	239036		4930596D02I	RIKEN cDNA 49	Chr14: 35.809486	6.78165881	16.8	Chr5: 123.159360	0.36453	67	0	0	-0.0356	0.8629847
10398795	104816	113390	Aspg	asparaginase h	Chr12: 112.106856	7.75511765	10.1	Chr19: 22.456818	0.36433	67	0	0	0	1
10352439	96935	23062	Susd4	sushi domain co	Chr1: 182.764896	6.88996471	12.1	Chr9: 59.987365	0.36294	67	0	0.41371	0.41579	0.0346374
10342144			Affy_1034214	Affymetrix Mous	ChrUn: 1.000000	6.68425884	12.3	ChrX: 61.058643	-0.3626	67	0	0	0	1
10607806	237222	2677	Ofd1	oral-facial-digita	ChrX: 166.390936	8.43701179	10.2	Chr15: 74.175093	-0.3625	67	0	0.40243	-0.0792	0.7004781
10595148	14858	74378	Gsta2	glutathione S-tra	Chr9: 78.331019	6.9557059	9.5	Chr9: 80.143686	0.36249	67	0	0.50873	0.13714	0.5040877
10488816	269378	554	Ahcy	S-adenosylhom	Chr2: 155.059310	10.7512706	11.3	Chr18: 89.380001	0.36161	67	0	0.64929	0.58889	0.0015507
10478066	319317		Snhg11	small nucleolar	Chr2: 158.375682	7.08350587	8.1	Chr5: 125.699278	0.36086	67	0	0	0	1
10339192			Affy_1033919	Affymetrix Mous	ChrUn: 1.000000	9.59621175	10.2	Chr17: 80.952261	-0.3607	67	0	0	0	1
10553274	20209	117956	Saa2	serum amyloid A	Chr7: 46.751833	5.59924706	7.3	Chr19: 58.711363	0.36015	67	0	0.61487	0.78332	2.228E-06
10570291	14058	30976	F10	coagulation fact	Chr8: 13.037308	8.5379059	9.7	Chr19: 53.706694	0.35938	67	0	0.61044	0.74873	1.084E-05
10542040	101187	10680	Parp11	poly (ADP-ribos	Chr6: 127.453723	8.87542353	9.9	ChrX: 114.159505	-0.3593	67	0	0	0.12955	0.5282027
10363622	67307	41470	3110049J23I	RIKEN cDNA 31	Chr10: 63.024512	8.11024706	9.7	Chr9: 48.069655	0.35915	67	0	0	0.5419	0.0042435
10557311	791408		Gm16496	predicted gene	Chr7: 124.344552	7.30243532	13.8	Chr7: 139.319167	0.3589	67	0	0	0	1
10578615	69260	20388	Ing2	inhibitor of grow	Chr8: 47.667178	8.12147061	10.3	Chr17: 75.881027	-0.3588	67	0	0.44527	0.0653	0.7512937
10549854	22690	69047	Zfp28	zinc finger prote	Chr7: 6.383327	7.69444703	10	Chr12: 29.713200	-0.3585	67	0	0.31844	-0.1499	0.4647125
10410452	78925	37426	Srd5a1	steroid 5 alpha-	Chr13: 69.573449	6.56995296	16.1	Chr2: 179.522758	0.35781	67	0	0.66346	0.4337	0.0268627
10347277	16008	499	Igfbp2	insulin-like grow	Chr1: 72.824492	8.35049409	17.3	Chr1: 72.626982	0.35775	67	0	0.50227	0.37396	0.0598348
10529887			Affy_1052988	Affymetrix Mous	Chr5: 44.983861	8.02444704	8.7	Chr9: 123.938540	0.35764	67	0	0	0	1
10541186	67289		3110021A11I	RIKEN cDNA 31	Chr6: 119.848193	7.83957646	10.8	Chr14: 19.749489	0.35708	67	0	0	-0.0143	0.9448291
10348570	227357	77795	Espnl	espin-like	Chr1: 91.322075	8.11923526	15.2	Chr4: 156.121747	0.35697	67	0	0	0.03396	0.8691699
10436552	224344	16988	Rbm11	RNA binding mo	Chr16: 75.592844	6.04554118	8.5	Chr5: 3.973237	-0.3569	67	0	0.33435	-0.0719	0.7268861
10363541	11898	6899	Ass1	argininosuccina	Chr10: 62.071022	10.0124471	11.9	Chr15: 73.734284	0.35665	67	0	0.72833	0.62076	0.000715
10411142	12116	1295	Bhmt	betaine-homocy	Chr13: 93.616690	6.25228235	10.4	Chr5: 52.917342	0.3561	67	0	0.67848	0.8105	5.191E-07
10402630	26448	8062	Rage	receptor for adv	Chr12: 110.803970	6.99979999	13.1	ChrX: 59.254162	0.35601	67	0	0.60851	-0.0683	0.7401799
10386033	245827	1110	Fat2	FAT tumor supp	Chr11: 55.250610	7.27607059	12	Chr12: 92.568022	0.35567	67	0	0.43593	-0.2178	0.2851002
10562856	71960	23480	Myh14	myosin, heavy p	Chr7: 44.605819	7.94828235	7.7	Chr4: 105.573728	0.35559	67	0	0.36111	-0.1555	0.4481005
10466248	20908	80191	Stx3	syntaxin 3	Chr19: 11.775118	7.68508237	11.5	Chr11: 82.187018	0.35553	67	0	0.28347	-0.2696	0.182833
10548692	16483	49244	Kap	kidney androge	Chr6: 133.849854	6.72871766	10.7	Chr9: 29.940961	0.3555	67	0	0.57824	-0.0773	0.7073063
10474373	16492	20514	Kcna4	potassium volta	Chr2: 107.290654	6.29572944	9.3	Chr6: 121.303841	0.35536	67	0	0.35231	0.06998	0.7340819
10526952	76854	15855	Gpr30	G protein-coupl	Chr5: 139.423179	7.45024707	11.7	Chr4: 156.183776	0.35533	67	0	0.58291	0	1
10349603	16153	478	Il10	interleukin 10	Chr1: 131.019847	5.97238823	10.9	Chr7: 14.544160	-0.3551	67	0	0.38064	0.0718	0.7274406
10582743	270109	8987	Pcnxl2	pecanex-like 2 (	Chr8: 125.751509	7.41332942	14.1	Chr4: 3.390023	0.35453	67	0	0	-0.0387	0.8510537
10489368	228859	35254	Fitm2	fat storage-indu	Chr2: 163.466388	8.50697641	11.7	Chr4: 5.599068	0.3536	67	0	0.43137	0	1
10435937	74603		Cd200r3	CD200 receptor	Chr16: 44.943692	5.36078824	10.8	Chr1: 63.144761	-0.3534	67	0	0.34365	-0.0813	0.6929222
10457644	12558	20424	Cdh2	cadherin 2	Chr18: 16.588877	7.52369411	12	Chr13: 67.497240	0.35273	67	0	0.37947	0.27356	0.1762967
10466814	14237	83248	Foxd4	forkhead box D4	Chr19: 24.898965	6.70034119	12.5	Chr16: 28.041680	0.35231	67	0	0.27573	-0.0842	0.6824135
10483163	50915	3303	Grb14	growth factor re	Chr2: 64.912474	7.62362356	9.2	Chr6: 136.698024	0.3522	67	0	0.44392	0.17014	0.4060059
10341583			Affy_1034158	Affymetrix Mous	ChrUn: 1.000000	6.19658824	10.9	Chr18: 78.806816	-0.3515	67	0	0	0	1
10501832	19299	2140	Abcd3	ATP-binding ca	Chr3: 121.758909	9.19523527	14.3	Chr11: 117.246863	0.35148	67	0	0.52068	0.27287	0.1774346
10438575	74147	1486	Ehhadh	enoyl-Coenzym	Chr16: 21.761287	8.17436471	9.6	Chr12: 117.577251	0.35147	67	0	0.56498	0.29443	0.1442718

10439762	269378	554	Ahcy	S-adenosylhom	Chr16: 46.152981	10.9388588	12.3	Chr18: 89.380001	0.35102	67	0	0.64929	0.58889	0.0015507
10413517	218865	41261	Chdh	choline dehydrc	Chr14: 30.009023	8.11454119	10.8	Chr1: 192.154974	0.35063	67	0	0.56624	0.3543	0.0757612
10575840			Affy_1057584	predicted pseuc	Chr8: 117.802363	7.1948353	10.6	ChrX: 139.755063	0.35053	67	0	0	0	1
10574423	234624		A330008L17F	RIKEN cDNA A	Chr8: 99.416654	8.14932942	11.4	Chr2: 168.424389	0.35046	67	0	0	0.19916	0.3293524
10463343	1E+08		Gm10768	predicted gene	Chr19: 43.839398	4.76869411	8.4	Chr1: 189.170283	0.3502	67	0	0	0	1
10434516	78408	82234	Fam131a	family with sequ	Chr16: 20.695026	7.51727059	7.3	ChrX: 48.026885	0.35006	67	0	0	0	1
10461526	71768	17651	Vwce	von Willebrand	Chr19: 10.634233	7.75058822	7.1	Chr11: 63.073481	0.34997	67	0	0.42125	0.72205	3.124E-05
10574903	234699	40937	Edc4	enhancer of mR	Chr8: 105.880951	9.41359996	12.9	Chr15: 10.000000	-0.3497	67	0	0.35998	-0.222	0.2756769
10345190	266744	9569	Lgsn	lengsin, lens pr	Chr1: 31.176435	6.77817647	9.2	ChrX: 59.254162	0.34968	67	0	0.37217	0	1
10402409	20704	20103	Serpina1e	serine (or cyste	Chr12: 103.946931	9.63068233	91.1	Chr12: 103.283977	0.34955	67	0	0.56911	0.82095	2.782E-07
10512098	66408	41634	Aptx	aprataxin	Chr4: 40.682078	8.20082351	10.3	Chr9: 120.315669	-0.3489	67	0	0.46763	-0.3913	0.0480787
10343835			Affy_1034383	Affymetrix Mous	ChrUn: 1.000000	5.21522351	13	Chr6: 44.030269	-0.3488	67	0	0	0	1
10458960	110695	913	Aldh7a1	aldehyde dehyd	Chr18: 56.525736	8.76521174	13.5	Chr18: 56.459033	0.34869	67	0	0.54969	0.11533	0.5747867
10494536	59020	1964	Pdzk1	PDZ domain co	Chr3: 96.830126	6.52742352	10.4	Chr11: 52.520308	0.34796	67	0	0.43856	0.21334	0.2953592
10357280	72999	9400	Insig2	insulin induced	Chr1: 121.304353	9.77716469	14.7	Chr9: 122.015240	0.34772	67	0	0.5443	0.57922	0.001931
10364784	70335	76467	Reep6	receptor access	Chr10: 80.330158	9.10588238	15.8	Chr13: 56.093344	0.34739	67	0	0.33424	0.46884	0.0156934
10564805	18631	20829	Pex11a	peroxisomal bio	Chr7: 79.737249	7.63251763	9.8	Chr15: 73.734284	0.34734	67	0	0.55018	0.37313	0.0604555
10500534	231290	15495	Slc10a4	solute carrier fa	Chr3: 98.499071	6.99504706	9.7	Chr7: 45.504843	0.34706	67	0	0.46261	0.03619	0.8606585
10500539	231290	15495	Slc10a4	solute carrier fa	Chr3: 98.552542	6.99504706	9.7	Chr7: 45.504843	0.34706	67	0	0.46261	0.03619	0.8606585
10402428	68054	23588	Serpina12	serine (or cyste	Chr12: 104.028769	6.30397646	9.8	Chr7: 92.731535	0.34682	67	0	0.48533	0.59151	0.0014595
10526452	69665	78581	Upk3bl	uroplakin 3B-lik	Chr5: 136.057311	7.16315292	11	ChrX: 21.061933	0.34677	67	0	0	0	1
10484249	80744	6048	Cwc22	CWC22 spliceo	Chr2: 77.895653	8.9789176	12.2	Chr16: 61.403305	-0.3466	67	0	0	0	1
10500388	74414	38185	Polr3c	polymerase (RN	Chr3: 96.711528	10.3806118	9.1	Chr5: 118.918193	-0.3465	67	0	0	-0.1535	0.4541558
10340301			Affy_103403(	Affymetrix Mous	ChrUn: 1.000000	6.18684705	11.2	Chr5: 21.026344	-0.3464	67	0	0	0	1
10427075	16668	55448	Krt18	keratin 18	Chr15: 102.028225	7.57828236	9.9	Chr2: 125.878798	0.34629	67	0	0.4608	0.14303	0.4857851
10471443	227733	45457	Pip5kl1	phosphatidylino	Chr2: 32.575718	7.17994118	9.4	Chr12: 86.908999	0.34488	67	0	0.31502	-0.0317	0.8777752
10371796	216227	13584	Slc17a8	solute carrier fa	Chr10: 89.574020	6.79551764	10.2	Chr11: 41.990518	0.34486	67	0	0.437	0.78033	2.583E-06
10536405	18231	8284	Nxph1	neurexophilin 1	Chr6: 8.951602	6.84874118	10.4	Chr15: 14.390519	0.34461	67	0	0.4465	-0.0411	0.8418429
10556962	233813	18607	Vwa3a	von Willebrand	Chr7: 120.739557	6.7745647	14.9	Chr12: 31.211373	0.3446	67	0	0	0	1
10344511			Affy_1034451	Affymetrix Mous	ChrUn: 1.000000	6.20849412	11	Chr14: 19.755208	-0.3443	67	0	0	0	1
10380252	12812	3413	Coil	coilin	Chr11: 88.973949	7.71716468	9.2	Chr5: 139.342498	-0.3436	67	0	0.49857	-0.0385	0.8518212
10537509	232714	88555	Mgam	maltase-glucoa	Chr6: 40.642979	7.18869411	9.3	Chr16: 21.323640	0.34306	67	0	0.57704	0.25366	0.2111582
10469312	19212	7495	Pter	phosphotriester	Chr2: 12.924041	7.36592942	9.5	Chr15: 73.734284	0.34304	67	0	0.44961	0.39502	0.0457988
10514195	75811	27548	Fam154a	family with sequ	Chr4: 86.444817	5.8456	8.5	Chr15: 85.427091	0.34292	67	0	0	0	1
10468802	76539	41463	D19Ertd737e	DNA segment, (	Chr19: 60.198586	9.10532938	14.7	Chr19: 61.166830	-0.3428	67	0	0	0.10438	0.6118471
10585467	235386	16057	Agphd1	aminoglycoside	Chr9: 54.917283	7.43721175	9.8	Chr12: 11.076147	0.34234	67	0	0	0	1
10521498	12933	20347	Crmp1	collapsin respor	Chr5: 37.242080	7.23209411	10.5	Chr17: 40.571109	0.34233	67	0	0.42608	0.06283	0.7604434
10366653	24117	31430	Wif1	Wnt inhibitory fa	Chr10: 121.034004	7.17657649	13.4	Chr5: 125.699278	0.34232	67	0	0.53229	-0.2175	0.2859075
10557738	13019	1016	Ctf1	cardiotrophin 1	Chr7: 127.712736	6.59122353	12.1	Chr5: 118.918193	0.3421	67	0	0.61925	-0.0809	0.6944201
10579974	71310		Tbc1d9	TBC1 domain fa	Chr8: 83.165639	9.12041175	8.5	Chr10: 111.073834	0.34182	67	0	0	-0.217	0.2868825
10444883	386463	48005	Cdsn	corneodesmosi	Chr17: 35.552128	7.91609411	9.1	Chr1: 192.141559	0.34164	67	0	0.36829	-0.1615	0.430715
10400708			Affy_104007(	in Sel1l, bad pr	Chr12: 69.561273	12.6587999	9.7	Chr11: 42.818374	0.34098	67	0	0	0	1
10342668			Affy_1034266	Affymetrix Mous	ChrUn: 1.000000	6.56514119	11	Chr7: 137.031765	0.34078	67	0	0	0	1
10516064	76574	19229	Mfsd2a	major facilitator	Chr4: 122.946850	7.36782351	10.6	Chr1: 191.969842	0.34055	67	0	0.52889	0	1
10478326	27219	8446	Sgk2	serum/glucocor	Chr2: 162.987546	7.28108236	10	ChrX: 59.254162	0.34053	67	0	0.35612	0.37001	0.0628064
10543140	625347		Gm6578	predicted gene	Chr6: 12.099518	6.02511762	8.3	Chr1: 190.124682	-0.3398	67	0	0	0	1
10447084	319625	71795	Galm	galactose mutar	Chr17: 80.127471	7.98487062	8.3	Chr17: 90.381205	0.33971	67	0	0	0.34752	0.0819341
10357676	18557	1949	Cdk18	cyclin-depender	Chr1: 132.113550	7.95882351	7.4	Chr16: 5.888890	0.33932	67	0	0.27541	0	1
10453627			Affy_1045362	hypothetical ge	Chr18: 4.635030	8.25322351	12.3	Chr18: 74.487158	0.33894	67	0	0	0	1
10493494	13638	3635	Efna3	ephrin A3	Chr3: 89.316037	6.35876469	8.9	Chr4: 110.201890	0.33878	67	0	0.30134	-0.2125	0.2973884
10576901	20494	390	Slc10a2	solute carrier fa	Chr8: 5.085623	5.77502353	10.8	Chr10: 74.666299	0.33875	67	0	0.52649	0.2774	0.1700654
10430174	223672	77567	Apol9a	apolipoprotein L	Chr15: 77.403789	7.51077649	14.6	Chr11: 36.820136	0.33857	67	0	0	0	1
10499536	13636	3262	Efna1	ephrin A1	Chr3: 89.271735	7.42615294	14.8	Chr4: 129.572170	0.33847	67	0	0.4002	0.17284	0.3984725
10449377	30051	8231	Spdef	SAM pointed do	Chr17: 27.714449	8.41310588	15.9	Chr4: 156.121747	0.33843	67	0	0.49425	-0.1422	0.4884204
10449935	240066	48189	Zfp870	zinc finger prote	Chr17: 32.879219	8.50035295	15	Chr3: 154.777282	-0.3384	67	0	0	0	1
10498584	109222	2166	Rarres1	retinoic acid rec	Chr3: 67.478972	6.82510587	12.8	Chr4: 3.390023	0.33806	67	0	0	0.33484	0.0945193
10343188			Affy_1034318	Affymetrix Mous	ChrUn: 1.000000	6.50395291	11.1	Chr7: 144.447601	-0.3379	67	0	0	0	1
10524124	269682	4308	Golga3	golgi autoantige	Chr5: 110.176701	9.21342357	9.6	Chr15: 8.299029	-0.3376	67	0	0.47637	-0.247	0.2238751
10338141			Affy_1033814	Affymetrix Mous	ChrUn: 1.000000	6.60963531	15.3	Chr5: 14.229549	-0.337	67	0.01	0	0	1
10596454	11655	55478	Alas1	aminolevulinic a	Chr9: 106.233927	10.1360824	9.9	Chr9: 33.830449	0.33695	67	0.01	0.61149	0.22888	0.2607211
10427693	320277	23371	Spef2	sperm flagellar	Chr15: 9.704312	5.31776469	8.7	Chr6: 63.787060	-0.3364	67	0.01	0.44889	-0.0677	0.7426381
10342671			Affy_1034267	Affymetrix Mous	ChrUn: 1.000000	7.8227647	9.8	Chr7: 92.731535	-0.3363	67	0.01	0	0	1
10339061			Affy_1033906	Affymetrix Mous	ChrUn: 1.000000	6.13041175	11.2	Chr2: 11.785864	0.33628	67	0.01	0	0	1
10558405	270004	18838	Foxi2	forkhead box I2	Chr7: 135.410308	8.64418821	9.7	Chr7: 36.716982	0.33597	67	0.01	0.34465	-0.0464	0.8219836
10343456			Affy_1034345	Affymetrix Mous	ChrUn: 1.000000	9.06321176	8.9	Chr1: 66.636909	0.33586	67	0.01	0	0	1
10380927	14786	3881	Grb7	growth factor re	Chr11: 98.446834	7.49342352	12.4	Chr9: 58.877034	0.33583	67	0.01	0.36923	0.21509	0.2913285
10444680	70274	41553	Ly6g6e	lymphocyte anti	Chr17: 35.076942	8.16845879	9.5	Chr9: 58.877034	0.33559	67	0.01	0.30833	-0.2142	0.293319
10381960	791371		Gm9910	predicted gene	Chr11: 105.943704	8.92217651	10.4	Chr18: 73.475369	0.33514	67	0.01	0	0	1
10338236			Affy_1033823	Affymetrix Mous	ChrUn: 1.000000	6.46122351	15.2	Chr10: 110.403476	-0.335	67	0.01	0	0	1
10416952			mir-19a	Affymetrix Mous	Chr14: 115.044000	5.51768235	8.5	Chr10: 115.921847	-0.3348	67	0.01	0	0	1
10438272	19125	40764	Prodh	proline dehydro	Chr16: 18.071726	8.31237647	12.5	Chr8: 123.289925	0.33476	67	0.01	0.59144	0.41722	0.0339575
10589911			Affy_1058991	Affymetrix Mous	Chr9: 114.563842	8.43185884	11.5	Chr1: 192.141559	0.33463	67	0.01	0	0	1
10548535	16634	110821	Klra3	killer cell lectin-	Chr6: 130.323289	8.24910592	11.9	Chr10: 92.924522	-0.3346	67	0.01	0.34251	-0.207	0.3102524
10497296	241877	78106	Slc10a5	solute carrier fa	Chr3: 10.331734	5.39142351	9.1	Chr19: 57.734251	0.33422	67	0.01	0.34435	0.28353	0.160436
10397052	791340		Gm10006	predicted gene	Chr12: 82.618025	6.69917646	10.6	Chr15: 97.760642	0.33397	67	0.01	0	0	1
10581605	15439	121756	Hp	haptoglobin	Chr8: 109.575128	9.57938826	10.1	Chr12: 12.942345	0.33389	67	0.01	0.72521	0.3574	0.0730502
10450280	625018	36030	C4a	complement cor	Chr17: 34.809094	8.32504708	9.7	Chr19: 10.708414	0.33376	67	0.01	0.39118	0.77055	4.124E-06
10340437			Affy_1034043	Affymetrix Mous	ChrUn: 1.000000	5.61462352	12.4	Chr5: 126.411859	-0.3336	67	0.01	0	0	1
10340433			Affy_1034043	Affymetrix Mous	ChrUn: 1.000000	6.97223528	16.8	Chr8: 3.500000	-0.3333	67	0.01	0	0	1
10572282	330790	11304	Hapln4	hyaluronan and	Chr8: 70.083457	7.10683529	10.9	Chr19: 42.483433	0.33327	67	0.01	0.39827	0.38918	0.0494047
10459229	240334	23429	Pcyox1l	prenylcysteine (	Chr18: 61.696837	8.48894115	7.1	Chr13: 59.180537	0.33286	67	0.01	0	-0.128	0.5331376
10477536	433492	45492	5430413K10F	RIKEN cDNA 5	Chr2: 154.307244	5.0731647	14	Chr11: 63.073481	0.33284	67	0.01	0.42764	-0.0263	0.8986452
10560505	12715	20432	Ckm	creatine kinase,	Chr7: 19.418812	7.77624707	9.9	Chr5: 45.290189	0.33275	67	0.01	0.50273	-0.0679	0.7417056
10541184			Affy_1054118	Affymetrix Mous	Chr6: 119.559937	7.79783529	9	ChrX: 166.340107	0.33266	67	0.01	0	0	1
10366346	21664	7203	Phlda1	pleckstrin homo	Chr10: 111.506286	7.78405885	10.3	Chr9: 65.547036	0.33254	67	0.01	0.63138	0.35656	0.0737747
10424922	52710	56994	Gpr172b	G protein-coupl	Chr15: 76.538883	8.66562354	11.5	Chr8: 116.276566	-0.3325	67	0.01	0.55276	-0.0569	0.7825429
10554127	384639		Gm5334	predicted pseuc	Chr7: 68.618456	6.02028235	10.6	Chr12: 56.504083	0.33246	67	0.01	0	0	1
10346330	227120		Plcl1	phospholipase (	Chr1: 55.406388	8.06728239	18.2	ChrX: 48.960346	-0.3324	67	0.01	0.45876	-0.2028	0.3203092
10339340			Affy_1033934	Affymetrix Mous	ChrUn: 1.000000	6.75310588	8.7	Chr17: 12.315221	-0.3324	67	0.01	0	0	1
10403816			Affy_1040381	Affymetrix Mous	Chr13: 19.184955	5.30595294	14.9	Chr17: 87.195981	-0.3322	67	0.01	0	0	1
10350123	93689	8118	Lmod1	leiomodin 1 (sm	Chr1: 135.324813	8.10236473	13	Chr5: 45.288181	0.33214	67	0.01	0.33778	-0.1989	0.3299046
10341597			Affy_1034159	Affymetrix Mous	ChrUn: 1.000000	4.70181177	7.7	Chr3: 154.323441	-0.3321	67	0.01	0	0	1

10400124	638487		Gm7239	predicted gene	Chr12: 40.883908	8.48495293	12.4	Chr12: 10.531550	0.33194	67	0.01	0	0	1
10423017			Affy_1042301	Affymetrix Mous	Chr15: 9.407198	5.68787059	11.8	Chr3: 105.668100	0.33171	67	0.01	0	0	1
10512274	69638		Enho	energy homeos	Chr4: 41.638144	8.36317648	7.1	Chr5: 125.699278	0.33158	67	0.01	0.50917	0	1
10482123	258944	10583	Olfr351	olfactory recept	Chr2: 36.859414	6.56177648	9.5	Chr19: 23.946801	0.33154	67	0.01	0	0.26611	0.188851
10575873	71839	16325	Osgin1	oxidative stress	Chr8: 119.435032	8.50744706	10	Chr16: 32.702145	0.33152	67	0.01	0	0.51669	0.0068801
10386604	20425	3074	Shmt1	serine hydroxyn	Chr11: 60.788104	8.58849407	13	Chr10: 3.180582	0.33103	67	0.01	0.6361	0.54722	0.0038133
10338470			Affy_1033847	Affymetrix Mous	ChrUn: 1.000000	7.20598825	10.7	Chr5: 130.410997	-0.331	67	0.01	0	0	1
10505445	18407	100534	Orm3	orosomucoid 3	Chr4: 63.356162	6.09305883	8.7	Chr9: 106.020642	0.33084	67	0.01	0.4175	-0.0132	0.9487939
10530441	53419	4804	Corin	corin	Chr5: 72.300025	7.35141176	10.4	Chr1: 178.015151	0.33072	67	0.01	0.58214	0.03341	0.8712729
10501622	64378	11104	Gpr88	G-protein coupl	Chr3: 116.249656	8.15589411	9.1	Chr13: 95.393634	0.33012	67	0.01	0.35133	-0.2267	0.2653962
10350864	89867	13227	Sec16b	SEC16 homolog	Chr1: 157.506810	7.19430589	16.7	Chr1: 146.745009	0.3301	67	0.01	0.35036	0.54052	0.0043608
10572368	14559		Gdf1	growth different	Chr8: 70.315774	7.96957648	10	Chr10: 111.073834	0.33009	67	0.01	0.33835	-0.0775	0.706593
10545524	66740	75225	4931417E11F	RIKEN cDNA 49	Chr6: 73.468581	6.4484941	10.6	Chr5: 123.165952	0.33007	67	0.01	0	-0.0786	0.7027759
10406005	16372	56490	Irx2	Iroquois related	Chr13: 72.628797	8.1346706	11.2	Chr10: 111.073834	0.32999	67	0.01	0.33709	-0.2106	0.3017662
10383763	1E+08		Gm10216	predicted gene	Chr11: 3.649171	8.7542706	9	Chr4: 4.036026	0.3299	67	0.01	0	0	1
10386178	18329	64927	Olfr30	olfactory recept	Chr11: 58.454915	7.30982351	9.2	Chr4: 156.121747	0.32981	67	0.01	0	-0.0534	0.7954119
10538247	109648	697	Npy	neuropeptide Y	Chr6: 49.822729	8.08835293	8.6	Chr1: 189.361953	0.32946	67	0.01	0.40983	0.06853	0.7394085
10444886	69542	49368	2300002M23I	RIKEN cDNA 23	Chr17: 35.567485	7.58062355	12.7	Chr9: 58.877034	0.32936	67	0.01	0.26162	0	1
10339462			Affy_1033946	Affymetrix Mous	ChrUn: 1.000000	8.92931764	10.9	Chr9: 115.524788	-0.3293	67	0.01	0	0	1
10540028	66277	8553	Klf15	Kruppel-like fac	Chr6: 90.462626	8.37261171	13	ChrX: 9.334336	0.32924	67	0.01	0.57342	0.42122	0.0321116
10478048	16803	3055	Lbp	lipopolysacchar	Chr2: 158.306493	8.72221182	11.5	Chr17: 71.025688	0.32905	67	0.01	0.59916	0.34388	0.0854144
10407251	218630	50171	Ccno	cyclin O	Chr13: 112.987898	7.79531765	7.5	Chr8: 72.545027	0.32859	67	0.01	0.36865	-0.0659	0.7490975
10338901			Affy_1033890	Affymetrix Mous	ChrUn: 1.000000	5.46155293	11.1	Chr2: 92.415016	-0.3283	67	0.01	0	0	1
10574246	382045	17828	Gpr114	G protein-coupl	Chr8: 94.923694	9.03617651	52.8	Chr8: 94.374289	-0.3279	67	0.01	0	-0.277	0.1707096
10382482	237987	27803	Otop2	otopetrin 2	Chr11: 115.307163	8.09617644	12.6	Chr4: 156.100964	0.32786	67	0.01	0.22362	-0.1459	0.4770535
10469923	72090	77857	Entpd8	ectonucleoside	Chr2: 25.080322	6.72461175	9.8	Chr16: 34.308359	0.32756	67	0.01	0.34103	0.44257	0.0235699
10495623	791377		Gm9916	predicted gene	Chr3: 118.434770	6.88934117	12.5	Chr11: 42.798784	0.32707	67	0.01	0	0	1
10507433	19207	37842	Ptch2	patched homolo	Chr4: 117.096356	7.5782353	11.2	Chr2: 93.321195	0.32702	67	0.01	0.39929	-0.0317	0.8777816
10348180	26987	31268	Eif4e2	eukaryotic trans	Chr1: 87.213914	9.58682355	20.4	Chr1: 78.859627	-0.3269	67	0.01	0.37845	0.02974	0.8853128
10479274	12561	48044	Cdh4	cadherin 4	Chr2: 179.442478	8.01442352	12.2	Chr17: 16.345499	0.32652	67	0.01	0.40922	0.09317	0.6507713
10414958	1E+08	109710	Tcra-V8	T-cell receptor a	Chr14: 53.616397	4.4339059	10.1	Chr13: 54.614037	-0.3263	67	0.01	0.23318	0	1
10380137	207777		Bzrap1	benzodiazepine	Chr11: 87.761402	7.60099997	8	Chr10: 111.073834	0.32619	67	0.01	0.304	-0.0481	0.8155732
10376490	216795	20722	Wnt9a	wingless-type M	Chr11: 59.306928	8.0302	12	Chr2: 168.424389	0.32616	67	0.01	0.47221	0.01768	0.9316808
10339276			Affy_1033927	Affymetrix Mous	ChrUn: 1.000000	7.79945884	10.6	Chr15: 32.696185	-0.3261	67	0.01	0	0	1
10569149	98845	69358	Eps8l2	EPS8-like 2	Chr7: 141.359178	7.07832938	11.1	Chr15: 72.500609	0.32574	67	0.01	0.27439	0.12269	0.5504359
10410877	67486	38184	Polr3g	polymerase (RN	Chr13: 81.673841	8.12648237	10.4	Chr1: 192.141559	-0.3256	67	0.01	0.39886	0.03939	0.8484961
10516323	667193		Gm8505	predicted gene	Chr4: 126.296853	7.89863529	10.9	Chr11: 52.520308	0.3255	67	0.01	0	0	1
10340272			Affy_1034027	Affymetrix Mous	ChrUn: 1.000000	5.29550586	12.4	Chr1: 172.911308	-0.3254	67	0.01	0	0	1
10427301			mir-615	Affymetrix Mous	Chr15: 103.014910	8.87577644	8.5	Chr1: 190.124682	0.32524	67	0.01	0	0	1
10345675	18143	1887	Npas2	neuronal PAS d	Chr1: 39.194204	6.90630589	16	Chr13: 22.398966	0.32521	67	0.01	0.46448	-0.0882	0.6683825
10521755	73955		4930449I04R	RIKEN cDNA 49	Chr5: 45.857647	8.72223529	8.6	Chr4: 156.121747	0.32502	67	0.01	0	0.04529	0.8261117
10343899			Affy_1034389	Affymetrix Mous	ChrUn: 1.000000	6.85883531	20	ChrX: 64.161107	-0.325	67	0.01	0	0	1
10574617	234677	71949	Ces8	carboxylesteras	Chr8: 105.131800	7.0872706	10	Chr15: 28.498377	0.32468	67	0.01	0	0	1
10502214	71519	77704	Cyp2u1	cytochrome P45	Chr3: 131.291139	7.62821176	9.5	Chr18: 45.789607	0.32448	67	0.01	0.24028	0.73803	1.682E-05
10538631	171198	74365	Vmn1r28	vomeronasal 1 (	Chr6: 58.264421	4.46308235	9.6	Chr5: 12.255014	-0.3244	67	0.01	0	0	1
10546098	56691	23184	Dnajb8	DnaJ (Hsp40) h	Chr6: 88.222602	7.18105883	11.7	Chr15: 8.299029	0.32435	67	0.01	0.44495	-0.0788	0.701953
10608288			Affy_1060828	Affymetrix Mous	ChrY: 8.079579	8.51176468	9.7	Chr10: 87.146879	0.32426	67	0.01	0	0	1
10608300			Affy_1060830	Affymetrix Mous	ChrY: 9.622926	8.51176468	9.7	Chr10: 87.146879	0.32426	67	0.01	0	0	1
10557975	246787	2289	Slc5a2	solute carrier fa	Chr7: 128.265683	7.5279647	11.5	Chr4: 3.390023	0.32376	67	0.01	0.55105	-0.0624	0.7618486
10377763	11890	912	Asgr2	asialoglycoprote	Chr11: 70.092644	7.32565883	16	Chr11: 80.036498	0.32373	67	0.01	0.53789	0.88561	1.827E-09
10355464	111175	69255	Pecr	peroxisomal tra	Chr1: 72.259172	8.31074121	11.2	Chr11: 43.071345	0.32358	67	0.01	0.38474	0.19797	0.3323104
10492755	14161	428	Fga	fibrinogen alpha	Chr3: 83.032703	6.88914115	12.6	Chr8: 80.460107	0.32342	67	0.01	0.53832	0.7586	7.09E-06
10539880	56691	23184	Dnajb8	DnaJ (Hsp40) h	Chr6: 88.222268	7.78391766	10.8	Chr4: 156.121747	0.3231	67	0.01	0.44495	-0.0788	0.701953
10355138			Affy_1035513	Affymetrix Mous	Chr1: 63.844824	6.50830588	10.5	Chr6: 119.538122	0.32306	67	0.01	0	0	1
10539316	16815	36314	Lbx2	ladybird homeo	Chr6: 83.086365	7.06943529	9.6	Chr4: 5.599068	0.32272	67	0.01	0.37788	0.18917	0.3546907
10513412	17843	74304	Mup4	major urinary pr	Chr4: 59.956804	6.12737648	10.6	Chr9: 29.940961	0.3227	67	0.01	0.39684	0.76542	5.223E-06
10606948	75746	11644	Morc4	microrchidia 4	ChrX: 139.821635	6.42698823	11.9	Chr19: 48.140553	0.32262	67	0.01	0	-0.0385	0.8518426
10442184	171233	74360	Vmn1r235	vomeronasal 1 (	Chr17: 21.260427	5.27234118	9.4	Chr17: 80.952261	-0.3226	67	0.01	0	0	1
10504504	76238	49088	Grhpr	glyoxylate reduc	Chr4: 44.981404	9.54582351	11.2	Chr2: 80.054211	0.32262	67	0.01	0.59044	0.55727	0.003102
10492709	58170	41171	Accn5	amiloride-sensit	Chr3: 81.996922	6.20074117	10.7	Chr9: 41.233417	0.32219	67	0.01	0.30555	0.81889	3.156E-07
10416023	71145	12556	Scara5	scavenger rece	Chr14: 65.666427	7.80018824	12.3	Chr15: 3.977909	0.32203	67	0.01	0.50672	0.0219	0.9154362
10416153	1E+08		Gm10861	predicted gene	Chr14: 67.297476	7.02775293	14.9	Chr4: 156.100964	0.32189	67	0.01	0	0	1
10439887			Affy_1043988	Affymetrix Mous	Chr16: 51.016524	8.83974119	11.1	Chr2: 100.014305	0.32183	67	0.01	0	0	1
10386394	237775	64827	Zfp867	zinc finger prote	Chr11: 59.461197	6.84708235	11.4	Chr15: 68.830704	-0.3218	67	0.01	0	0	1
10463023	69888	68086	Cyp2c66	cytochrome P45	Chr19: 39.113898	7.14655294	13.7	Chr18: 73.097788	0.3215	67	0.01	0	-0.1487	0.4683178
10583450	244721	87243	Zfp846	zinc finger prote	Chr9: 20.581525	7.77036469	8.4	Chr3: 10.312261	-0.3212	67	0.01	0	0	1
10342309			Affy_1034230	Affymetrix Mous	ChrUn: 1.000000	7.11660002	12.1	Chr7: 118.933331	-0.321	67	0.01	0	0	1
10354031	211484	23531	Tsga10	testis specific 1	Chr1: 37.754774	6.83823531	9.7	Chr6: 6.060085	-0.321	67	0.01	0.40522	-0.0679	0.7415916
10582551	72185	11433	Dbndd1	dysbindin (dystr	Chr8: 123.505687	7.07170587	9.2	Chr4: 156.183776	0.32091	67	0.01	0.24721	-0.0362	0.860458
10339568			Affy_1033956	Affymetrix Mous	ChrUn: 1.000000	10.403953	8.9	Chr4: 156.121747	0.32086	67	0.01	0	0	1
10364489	67112	10770	Fgf22	fibroblast growt	Chr10: 79.755076	8.24019999	11.1	Chr4: 156.121747	0.3208	67	0.01	0.38023	-0.1247	0.5439496
10356170			Affy_1035617	Affymetrix Mous	Chr1: 83.390541	12.3401647	8.8	Chr1: 87.338838	0.32079	67	0.01	0	0	1
10540838	232333	2290	Slc6a1	solute carrier fa	Chr6: 114.282774	7.44184705	9.4	Chr11: 100.412031	0.3205	67	0.01	0.51683	0.04769	0.8170571
10340557			Affy_1034055	Affymetrix Mous	ChrUn: 1.000000	6.39199999	14.8	Chr1: 16.724263	-0.3204	67	0.01	0	0	1
10546249	243538	18456	Ccdc37	coiled-coil doma	Chr6: 90.403479	6.91085881	9	Chr4: 33.181426	0.32022	67	0.01	0	-0.0078	0.9699555
10568180	70233	4455	Cd2bp2	CD2 antigen (cy	Chr7: 127.191660	9.45885885	17.3	Chr19: 52.940525	-0.32	67	0.01	0	-0.1251	0.5426443
10556381	320878	8760	Mical2	microtubule ass	Chr7: 112.225856	8.26398824	11.9	Chr10: 111.073834	0.31979	67	0.01	0.4204	-0.0978	0.6347266
10479981	14462	1550	Gata3	GATA binding p	Chr2: 9.857068	8.43424706	11	Chr17: 75.881027	-0.3198	67	0.01	0.41927	-0.1747	0.393309
10416753	52023	4628	Pibf1	progesterone in	Chr14: 99.099433	8.20178826	9	Chr14: 93.728992	-0.3195	67	0.01	0.43899	0.08104	0.6939133
10358188	383563	3872	Gpr25	G protein-coupl	Chr1: 136.258004	8.16864704	9.5	Chr1: 190.124682	0.31911	67	0.01	0	0.14703	0.4735358
10368050	1E+08	46005	Ect2l	epithelial cell tra	Chr10: 18.129032	5.51542353	8.2	Chr12: 27.822842	-0.3191	67	0.01	0	0	1
10509790	212647	6081	Aldh4a1	aldehyde dehyd	Chr4: 139.622894	8.44632943	21.4	Chr4: 140.605784	0.31904	67	0.01	0.48881	0.43013	0.0282881
10524098	675812	52335	Zfp605	zinc finger prote	Chr5: 110.111925	7.15447057	16.8	Chr5: 110.582881	-0.319	67	0.01	0	0	1
10481649	319245		9430097D07F	RIKEN cDNA 94	Chr2: 32.574184	6.50889411	8.2	Chr15: 28.321742	0.31896	67	0.01	0	-0.1547	0.4503633
10488374	15376	7762	Foxa2	forkhead box A2	Chr2: 148.042918	7.66205885	9.4	Chr1: 189.029118	0.31894	67	0.01	0.38048	0.57858	0.0019589
10525916	208151	28135	Tmem132b	transmembrane	Chr5: 125.622461	7.71684706	13	Chr9: 58.877034	0.31892	67	0.01	0	0.31029	0.1228994
10342379			Affy_1034237	Affymetrix Mous	ChrUn: 1.000000	6.15348234	9.8	Chr18: 73.475369	-0.3188	67	0.01	0	0	1
10432918	16691	55643	Krt8	keratin 8	Chr15: 101.996707	8.30764706	12.8	Chr10: 68.193535	0.31874	67	0.01	0.40242	0	1
10422232	1E+08	86332	Frg2	FSHD region ge	Chr14: 106.093150	8.5920235	10.7	Chr4: 156.100964	0.3186	67	0.01	0	0	1
10559310			Affy_1055931	predicted gene	Chr7: 143.596503	8.07549411	14.8	Chr3: 3.074240	0.31833	67	0.01	0	0	1
10397761	1E+08		Gm10432	predicted gene	Chr12: 100.296528	7.10548234	9.4	Chr10: 45.611814	0.31815	67	0.01	0	0	1
10341252			Affy_1034125	Affymetrix Mous	ChrUn: 1.000000	5.10910588	11.6	Chr6: 6.060085	0.31797	67	0.01	0	0	1

10484764	258774	74190	Olfr1208	olfactory recept	Chr2: 88.896669	5.13209412	12.9	Chr8: 15.361363	-0.3179	67	0.01	0	0.32676	0.103254
10426118	83456	56835	Mov10l1	Moloney leuken	Chr15: 88.982975	6.52083528	12.4	Chr12: 99.576264	0.31777	67	0.01	0.41553	0.04543	0.8255786
10456248	225631	113592	Onecut2	one cut domain,	Chr18: 64.340364	7.96197647	10.9	Chr14: 12.241469	0.31774	67	0.01	0.40561	0.74532	1.25E-05
10412655	78393		2610318M16I	RIKEN cDNA 2(	Chr14: 8.368309	7.39856471	9.1	Chr18: 45.789607	0.3177	67	0.01	0	-0.0859	0.6766078
10338983			Affy_1033898	Affymetrix Mous	ChrUn: 1.000000	7.49554116	9.5	Chr10: 92.924522	-0.3169	67	0.01	0	0	1
10343115			Affy_1034311	Affymetrix Mous	ChrUn: 1.000000	6.97492939	13.4	Chr19: 10.670548	-0.3166	67	0.01	0	0	1
10562211	56188	3691	Fxyd1	FXYD domain-c	Chr7: 31.051680	9.08612939	23.1	Chr7: 36.449783	0.31651	67	0.01	0.41409	0.19634	0.3363987
10442840	328783	18633	Mslnl	mesothelin-like	Chr17: 25.736029	7.11582348	8.4	Chr9: 109.865644	0.31632	67	0.01	0	0	1
10459633	75577	82463	2310002L13F	RIKEN cDNA 2(	Chr18: 70.240429	6.19364704	8.9	Chr18: 49.591641	0.31592	67	0.01	0.26151	-0.0912	0.6576767
10585588	121021	20445	Cspg4	chondroitin sulf	Chr9: 56.865160	7.56734114	11.7	Chr6: 4.327681	0.31591	67	0.01	0.47291	-0.1661	0.4174945
10444066	81630	3982	Zbtb22	zinc finger and	Chr17: 33.916198	9.42597644	10.4	Chr1: 80.783678	-0.3158	67	0.01	0	-0.1238	0.5467503
10556458	78748	121963	Rassf10	Ras association	Chr7: 112.953962	7.31111764	9.4	ChrX: 9.334336	0.31544	67	0.01	0	0	1
10563447	27421	55559	Abcc6	ATP-binding ca	Chr7: 45.976380	7.61718824	10.9	Chr13: 66.880534	0.31535	67	0.01	0.7042	0.82377	2.337E-07
10598796	73547	66309	Dusp21	dual specificity	ChrX: 18.145857	5.88695293	9.7	Chr6: 100.148195	0.3152	67	0.01	0.23923	0.01536	0.9406459
10593953	235416	11047	Lman1l	lectin, mannose	Chr9: 57.607033	7.73131765	9	Chr9: 85.126303	0.31515	67	0.01	0	-0.0933	0.6502859
10573979	14681	39203	Gnao1	guanine nucleo	Chr8: 93.810838	7.43896469	11	Chr11: 52.520308	0.31504	67	0.01	0.39734	-0.0125	0.9516611
10508974	100163	37309	Pafah2	platelet-activati	Chr4: 134.397469	8.17945883	11.2	Chr5: 126.413156	0.31487	67	0.01	0.65114	0.25314	0.2121366
10480912	16871	7814	Lhx3	LIM homeobox	Chr2: 26.200212	7.50858823	12.7	Chr4: 13.897101	0.31467	67	0.01	0.40411	0.20503	0.3150117
10398075	20716	111129	Serpina3n	serine (or cyste	Chr12: 104.406729	10.1196	16.8	Chr17: 52.367518	0.31443	67	0.01	0.51618	0.49728	0.0097464
10339478			Affy_1033947	Affymetrix Mous	ChrUn: 1.000000	7.56529413	14	Chr7: 36.449783	-0.3144	67	0.01	0	0	1
10379560	66983	41655	Zfp830	zinc finger prote	Chr11: 82.764345	8.62374113	10.2	Chr3: 17.540234	-0.3142	67	0.01	0.48395	0	1
10494114	20341	2930	Selenbp1	selenium bindin	Chr3: 94.933066	8.70095292	12.6	Chr18: 15.638699	0.31414	67	0.01	0.52941	0.17431	0.3944203
10531061	112417	84333	Ugt2b37	UDP glucurono	Chr5: 87.240492	6.4422	9.7	Chr7: 36.449783	0.31398	67	0.01	0	-0.0648	0.7532754
10559276	16535	85014	Kcnq1	potassium volta	Chr7: 143.107254	7.72365883	9.2	Chr12: 10.531550	0.31382	67	0.01	0.44031	-0.1846	0.3667685
10551519	80749		Lrfn1	leucine rich rep	Chr7: 28.454496	7.85689413	10.5	Chr9: 108.500600	0.31363	67	0.01	0.20916	-0.06	0.7707548
10514791	100102	17790	Pcsk9	proprotein conv	Chr4: 106.442342	7.91204704	11.5	Chr2: 99.825314	0.31356	67	0.01	0.55016	0.68534	0.0001118
10546977	11941	56150	Atp2b2	ATPase, Ca++ (	Chr6: 113.745668	7.91802356	13.8	Chr4: 4.036026	0.31346	67	0.01	0.48403	0.10765	0.600684
10532339	19301	32062	Pxmp2	peroxisomal me	Chr5: 110.274286	8.14890586	12.4	Chr14: 71.259017	0.3131	67	0.01	0.51911	0.44672	0.0221464
10532277	627569		Vmn2r12	vomeronasal 2,	Chr5: 109.085858	4.71923528	13.9	Chr7: 137.022105	-0.3131	67	0.01	0	0	1
10378964	20370	10948	Sez6	seizure related	Chr11: 77.930839	7.48443528	8.7	Chr5: 118.918193	0.31303	67	0.01	0.48337	0.05328	0.7960299
10341852			Affy_1034185	Affymetrix Mous	ChrUn: 1.000000	5.60270586	12.1	Chr12: 103.031681	-0.313	67	0.01	0	0	1
10386423	194908		Pld6	phospholipase I	Chr11: 59.783898	8.26298821	9.6	Chr10: 111.073834	0.31296	67	0.01	0.32271	0	1
10557076	246190	71803	Otoa	otoancorin	Chr7: 121.083438	6.85754118	12.5	Chr3: 142.634889	0.31295	67	0.01	0.25217	-0.123	0.5494787
10594519	330962	18721	Ostb	organic solute t	Chr9: 65.412753	6.97498824	9.6	Chr2: 13.436216	0.31275	67	0.01	0.37412	-0.0248	0.9043487
10414137	14803	69017	Grid1	glutamate recep	Chr14: 34.820166	7.04612943	9.7	Chr9: 108.969240	0.31263	67	0.01	0.37838	0	1
10560624	11816	30951	Apoe	apolipoprotein E	Chr7: 19.696270	13.1809647	17.2	Chr17: 33.146326	0.31258	67	0.01	0.4154	0.53534	0.0048291
10594188	23958	84397	Nr2e3	nuclear recepto	Chr9: 59.942771	7.22925881	9.3	Chr10: 111.073834	0.31248	67	0.01	0.4268	0.29051	0.1499468
10379685	66330	11949	1700020L24F	RIKEN cDNA 1	Chr11: 83.437694	7.92003529	12.2	Chr17: 86.758069	0.31243	67	0.01	0	-0.1271	0.5359507
10546762	16192	473	Il5ra	interleukin 5 rec	Chr6: 106.710357	8.50247059	18.9	Chr6: 105.808926	-0.3124	67	0.01	0.55256	-0.0445	0.8291283
10342177			Affy_1034217	Affymetrix Mous	ChrUn: 1.000000	6.8954588	10.2	Chr15: 31.218232	-0.3122	67	0.01	0	0	1
10459999	20689	18142	Sall3	sal-like 3 (Dros	Chr18: 80.966359	7.73502352	7.2	Chr5: 125.699278	0.31205	67	0.01	0.46253	0.00524	0.9797191
10528721	231050	11126	Galnt11	UDP-N-acetyl-a	Chr5: 25.222848	10.258553	7.9	Chr9: 58.877034	0.31199	67	0.01	0.35093	-0.0563	0.784741
10517742	791389		Gm9867	predicted gene	Chr4: 140.322378	7.7727412	11.7	Chr2: 44.479460	0.31183	67	0.01	0	0	1
10488362	228731	41526	Nkx2-4	NK2 transcriptio	Chr2: 147.083318	8.79876471	12.1	Chr4: 156.121747	0.31181	67	0.01	0.2374	0.05558	0.7873969
10368918	109205	41216	Sobp	sine oculis-bind	Chr10: 43.002632	7.0260706	12.2	Chr5: 47.462695	0.31165	67	0.01	0.24019	-0.121	0.5560991
10591997	30806	5108	Adamts8	a disintegrin-lik	Chr9: 30.942734	9.16811762	9.6	Chr9: 58.877034	0.3116	67	0.01	0.50369	-0.0818	0.6913337
10402080	217827	41213	C14orf102	human chromos	Chr12: 100.125452	9.02718823	8.6	Chr3: 155.541974	-0.3116	67	0.01	0	-0.1456	0.4778579
10552270	70227	88409	Zfp619	zinc finger prote	Chr7: 39.517766	8.05018821	11.8	Chr3: 3.074240	-0.3115	67	0.01	0	-0.0347	0.8664923
10473783	19400	3708	Rapsn	receptor-associ	Chr2: 91.035627	6.99657648	12.5	Chr2: 147.564643	0.31139	67	0.01	0.34822	-0.0709	0.7305725
10419575	219033	117946	Ang4	angiogenin, ribo	Chr14: 51.763887	7.39318822	9.8	Chr11: 107.742038	0.31134	67	0.01	0.49682	-0.0451	0.8269223
10418903	432839	40975	Gprin2	G protein regula	Chr14: 34.194444	8.54295295	7.8	Chr9: 58.877034	0.31045	67	0.01	0	0.07046	0.7323243
10449657	21786	2427	Tff3	trefoil factor 3, i	Chr17: 31.125314	7.91523531	12.5	Chr9: 58.877034	0.31032	67	0.01	0.61379	0.04974	0.8093344
10428714	210463	18166	BC026439	cDNA sequence	Chr15: 57.243767	5.49384706	14.6	Chr6: 85.461248	0.3103	67	0.01	0.30775	-0.0969	0.6378438
10363915	432471		Gm9815	adult male corp	Chr10: 73.099454	7.79316472	7.8	Chr18: 73.475369	0.31012	67	0.01	0	0	1
10535698	337924	111391	Cyp3a44	cytochrome P45	Chr5: 145.773983	6.17803532	11.2	Chr1: 189.136357	0.31011	67	0.01	0.45323	0.03292	0.8731654
10339952			Affy_1033995	Affymetrix Mous	ChrUn: 1.000000	6.08069413	11.5	Chr15: 38.655045	-0.3098	67	0.01	0	0	1
10411780			Affy_1041178	Affymetrix Mous	Chr13: 101.013075	5.85142356	15.3	Chr11: 107.964395	0.30963	67	0.01	0	0	1
10343440			Rmer20b	RMER20B ERV	Chr4: 117.027870	8.58368239	7.8	Chr5: 125.699278	0.3096	67	0.01	0	0	1
10414551	54159	110844	Ear5	eosinophil-asso	Chr14: 51.162260	6.22024707	10.7	Chr4: 18.549080	0.30959	67	0.01	0.33535	-0.0595	0.7729374
10343902			Affy_1034390	Affymetrix Mous	ChrUn: 1.000000	8.91607062	13.2	Chr1: 87.338838	0.30958	67	0.01	0	0	1
10503876	272009		Srsf13b	serine/arginine-	Chr4: 33.208991	7.15182354	9.1	Chr4: 4.036026	0.30953	67	0.01	0	0	1
10341139			Affy_1034113	Affymetrix Mous	ChrUn: 1.000000	6.35414117	11.5	Chr1: 115.659440	-0.3095	67	0.01	0	0	1
10605055	73738	12513	Haus7	HAUS augmin-l	ChrX: 73.437313	7.7765294	11	Chr1: 67.777157	-0.3095	67	0.01	0.22041	0	1
10564266	27412	8465	Peg12	paternally expre	Chr7: 62.461871	8.30255291	11.9	Chr14: 30.957748	0.30919	67	0.01	0.39645	0.05277	0.7979379
10444800	20826	88808	Nhp2l1	NHP2 non-histo	Chr17: 35.335854	11.7860236	12.7	Chr14: 33.796070	-0.3092	67	0.01	0.36929	-0.2045	0.3162468
10588243	20187	68287	Ryk	receptor-like tyr	Chr9: 102.834917	9.4770588	36.9	Chr9: 99.822930	-0.3091	67	0.01	0.42164	0.03238	0.8752185
10338883			Affy_1033888	Affymetrix Mous	ChrUn: 1.000000	5.99348237	10.9	Chr4: 56.198745	0.30898	67	0.01	0	0	1
10412960	105428	67023	Fam149b	family with sequ	Chr14: 20.348162	8.85303529	10.9	Chr18: 73.498625	-0.3089	67	0.01	0	0	1
10446592	224997	31258	Dlgap1	discs, large (Dr	Chr17: 69.969369	9.39068238	10	Chr10: 87.146879	0.30865	67	0.01	0.37848	0.2144	0.2929088
10369927			Affy_1036992	predicted pseud	Chr10: 75.590142	7.49201177	11.3	Chr1: 178.156680	0.30864	67	0.01	0	0	1
10497001	12972	68210	Cryz	crystallin, zeta	Chr3: 154.597199	8.66081182	20.7	Chr3: 146.613483	0.30862	67	0.01	0.51589	0.4457	0.02249
10414590	93719	40596	Ear6	eosinophil-asso	Chr14: 51.853768	7.6026353	16.5	Chr9: 51.713125	0.30851	67	0.01	0.45623	-0.1717	0.4015348
10562105	14447	101265	Gapdhs	glyceraldehyde-	Chr7: 30.729780	6.67415297	9.6	Chr2: 78.100320	0.30801	67	0.01	0.41675	-0.0785	0.7030931
10488437	319470		C530025M09	RIKEN cDNA C	Chr2: 149.830524	8.51278822	11	Chr1: 189.029118	0.30773	67	0.01	0	0.28585	0.1568887
10340672			Affy_1034067	Affymetrix Mous	ChrUn: 1.000000	5.97137648	12.1	Chr11: 13.269863	-0.3077	67	0.01	0	0	1
10450525	672682	104443	Gm9573	predicted gene	Chr17: 35.618130	7.79254119	10.2	Chr1: 190.124682	0.30734	67	0.01	0.33603	0	1
10563355	56546	431	Sec1	secretory blood	Chr7: 45.677689	7.73164708	9.7	Chr8: 95.762383	0.30728	67	0.01	0.38925	0.10974	0.5935611
10364428	18357	121526	Olfr57	olfactory recept	Chr10: 79.034798	4.9309294	8.1	Chr12: 105.280155	-0.3072	67	0.01	0	0.13935	0.4971725
10574765	270091	23090	Lrrc36	leucine rich rep	Chr8: 105.413651	7.13637646	15.9	Chr4: 114.787710	0.30713	67	0.01	0.12332	-0.1192	0.5620045
10368700	215928		BC021785	cDNA sequence	Chr10: 39.947195	5.58969412	9.9	Chr17: 57.085978	0.30712	67	0.01	0	-0.0847	0.6808151
10373467	13867	20457	Erbb3	receptor tyrosin	Chr10: 128.568646	8.0898706	8.3	Chr11: 108.713781	0.3071	67	0.01	0.42684	0.29421	0.1445926
10542596	58807	23008	Slco1c1	solute carrier or	Chr6: 141.524436	6.44197645	10.3	Chr15: 3.977909	0.30707	67	0.01	0.47265	0.01784	0.9310776
10526277	58805	32507	Mlxipl	MLX interacting	Chr5: 135.106913	7.55356469	17.5	Chr4: 156.121747	0.30701	67	0.01	0.50731	0.35695	0.0734394
10477970	20779	21120	Src	Rous sarcoma (	Chr2: 157.424289	8.86031767	10.6	Chr17: 21.686210	0.3068	67	0.01	0.34418	-0.3354	0.0939104
10520612	16548	38187	Khk	ketohexokinase	Chr5: 30.921895	8.99018825	8.2	Chr16: 29.162023	0.3067	67	0.01	0.7055	0.51662	0.0068894
10338829			Affy_1033882	Affymetrix Mous	ChrUn: 1.000000	7.74036467	10.5	Chr1: 78.932505	-0.3066	67	0.01	0	0	1
10349828	16980	21274	Lrrn2	leucine rich rep	Chr1: 132.880355	8.52402352	10.8	ChrX: 10.699902	0.30643	67	0.01	0.32915	-0.1506	0.462869
10520696	791336		Gm9924	predicted gene	Chr5: 31.094984	7.41672943	9.8	Chr6: 6.060085	0.30625	67	0.01	0	0	1
10523151	14825	105490	Cxcl1	chemokine (C-X	Chr5: 90.891310	8.26443529	9.9	Chr9: 22.854061	0.30608	67	0.01	0.51694	0.72758	2.534E-05
10431792	78895	12842	Pus7l	pseudouridylate	Chr15: 94.522640	8.62744709	11.7	Chr3: 12.565616	-0.306	67	0.01	0	-0.3167	0.1149255
10416960	103978	3285	Gpc5	glypican 5	Chr14: 115.092252	6.70256469	11.2	Chr4: 3.390023	0.30596	67	0.01	0.34709	-0.1029	0.6168341
10536752	56223	10475	Fscn3	fascin homolog	Chr6: 28.427789	6.26648235	14.2	Chr15: 85.612969	0.30552	67	0.01	0.39313	-0.032	0.8766792

10440651	239932	88056	Krtap24-1	keratin associat	Chr16: 88.611490	6.45111763	12.1	Chr9: 48.080531	0.30534	67	0.01	0	0	1
10547689	56552	113757	Vmn2r26	vomeronasal 2,	Chr6: 123.822814	7.12278826	8.9	Chr15: 37.462412	0.30526	67	0.01	0.21808	-0.1534	0.4544664
10489422	16538	20517	Kcns1	K+ voltage-gate	Chr2: 164.163619	7.12896471	9.5	Chr4: 156.121747	0.30502	67	0.01	0.22096	-0.0149	0.9423267
10503680	26409	37743	Map3k7	mitogen-activat	Chr4: 31.964116	10.5516589	11.7	Chr16: 27.360729	-0.305	67	0.01	0.41984	-0.3043	0.1307257
10594747	1E+08		M5C1000I18F	RIKEN cDNA M	Chr9: 67.758713	6.6974353	10.9	Chr15: 14.390519	0.30496	67	0.01	0	0	1
10376832	11541	20167	Adora2b	adenosine A2b	Chr11: 62.248984	7.1934353	12	Chr2: 180.808022	0.30483	67	0.01	0.4806	-0.2949	0.1436005
10349340	226359	18792	C1ql2	complement cor	Chr1: 120.340582	8.09850589	11.1	Chr12: 87.172918	0.30479	67	0.01	0.39553	0.1151	0.5755329
10508142	329941	55879	Col8a2	collagen, type V	Chr4: 126.286794	8.05125882	8.1	ChrX: 61.058643	0.30473	67	0.01	0.6647	0.01377	0.9467811
10392894	328035	18646	Fads6	fatty acid desat	Chr11: 115.280653	7.97430593	10.3	Chr18: 73.475369	0.30469	67	0.01	0.1982	0.50405	0.0086514
10511492	666840		Gm11814	predicted gene	Chr4: 10.311876	5.74581176	18	Chr6: 12.978399	-0.3046	67	0.01	0	0	1
10416531			Affy_1041653	Affymetrix Mous	Chr14: 76.760848	6.81270589	12.2	Chr6: 119.538122	0.3043	67	0.01	0	0	1
10484660	258766	106833	Olfr259	olfactory recept	Chr2: 87.107447	4.53981177	11.8	Chr1: 72.503279	-0.3042	67	0.01	0	0.0901	0.6615977
10340854			Affy_1034085	Affymetrix Mous	ChrUn: 1.000000	7.03084706	9.3	Chr3: 36.543329	-0.304	67	0.01	0	0	1
10408541			Affy_1040854	Affymetrix Mous	Chr13: 32.668750	5.44172943	19.9	ChrX: 166.340107	-0.3039	67	0.01	0	0	1
10370999	237403	78065	Lingo3	leucine rich rep	Chr10: 80.832801	9.13605886	8	Chr1: 189.029118	0.30392	67	0.01	0.26668	0	1
10468180	73728	31115	Psd	pleckstrin and S	Chr19: 46.312087	7.52807057	11.4	Chr5: 118.918193	0.3037	67	0.01	0.29421	0.14565	0.4777384
10497615	73249		1600017P15F	RIKEN cDNA 16	Chr3: 30.595346	8.63069412	7.6	Chr18: 73.475369	0.30365	67	0.01	0	0	1
10368077	1E+08	46005	Ect2l	epithelial cell tra	Chr10: 18.172672	7.46951766	11.9	Chr4: 107.548653	0.30358	67	0.01	0	0	1
10343166			Affy_1034316	Affymetrix Mous	ChrUn: 1.000000	11.2733882	12.7	Chr7: 70.848220	0.30354	67	0.01	0	0	1
10561025	72383	13039	Cnfn	cornifelin	Chr7: 25.367620	8.28141172	9.2	Chr2: 158.005171	0.30352	67	0.01	0.40757	-0.1312	0.5229953
10341373			Affy_1034137	Affymetrix Mous	ChrUn: 1.000000	8.53945886	10.9	Chr1: 67.777157	0.30351	67	0.01	0	0	1
10343642			Affy_1034364	Affymetrix Mous	ChrUn: 1.000000	5.07832943	8.8	Chr2: 147.564643	-0.3034	67	0.01	0	0	1
10510507			mir-34a	Affymetrix Mous	Chr4: 150.068454	5.70191763	11.5	Chr4: 3.390023	-0.3033	67	0.01	0	0	1
10342068	17222	7414	Anapc1	anaphase prom	Chr2: 128.504874	6.78488237	15.2	Chr2: 128.373489	-0.3033	67	0.01	0.28541	-0.1679	0.4123427
10341824			Affy_1034182	Affymetrix Mous	ChrUn: 1.000000	6.99336468	9.9	Chr12: 86.908999	-0.3033	67	0.01	0	0	1
10596403	665033	122792	Col6a5	collagen, type V	Chr9: 105.862752	7.29468238	9	Chr16: 12.472777	0.30329	67	0.01	0.32212	0	1
10340244			Affy_1034024	Affymetrix Mous	ChrUn: 1.000000	10.5872706	8.9	Chr10: 86.451681	0.30313	67	0.01	0	0	1
10389990	71889	56791	Epn3	epsin 3	Chr11: 94.490991	7.82398823	8.5	Chr8: 18.502238	0.30279	67	0.01	0.31898	-0.224	0.2712895
10519117	18762	55681	Prkcz	protein kinase C	Chr4: 155.260120	8.5965412	13.4	Chr2: 166.630386	0.30272	67	0.01	0.41017	0.14772	0.4714265
10420338	66645		Pspc1	paraspeckle pro	Chr14: 56.700993	9.9017765	10	Chr13: 67.497240	-0.3026	67	0.01	0.38806	0.09569	0.6419261
10455687	71373	41152	Prr16	proline rich 16	Chr18: 51.117738	7.41536471	9.3	Chr15: 8.299029	0.30245	67	0.01	0.47788	0.52936	0.005421
10342049			Affy_1034204	Affymetrix Mous	ChrUn: 1.000000	7.22484709	13.9	Chr7: 36.760233	-0.3024	67	0.01	0	0	1
10505879	15970	68536	Ifna7	interferon alpha	Chr4: 88.816228	7.18855296	18.8	Chr11: 36.820136	0.30241	67	0.01	0.35963	0.04152	0.8404126
10358124	18772	253	Pkp1	plakophilin 1	Chr1: 135.871395	7.58195294	9.4	Chr3: 17.540234	0.30232	67	0.01	0.31718	-0.1203	0.5584268
10546657			Affy_1054665	Affymetrix Mous	Chr6: 97.547438	6.50471764	9.7	Chr4: 156.183776	0.3023	67	0.01	0	0	1
10340122			Affy_1034012	Affymetrix Mous	ChrUn: 1.000000	5.03541176	12.4	Chr17: 87.195981	-0.3018	67	0.01	0	0	1
10387194	252868	17099	Odf4	outer dense fibe	Chr11: 68.921835	6.36203531	10.1	Chr15: 70.547128	0.30178	67	0.01	0.31775	-0.0736	0.7208197
10404402	15220	7359	Foxq1	forkhead box Q	Chr13: 31.558437	7.91777644	13.7	ChrX: 9.334336	0.30178	67	0.01	0.52038	0.18117	0.375777
10500800			Affy_1050080	Affymetrix Mous	Chr3: 103.445697	5.30662353	8.8	Chr7: 27.067846	-0.3018	67	0.01	0	0	1
10584537	258608	105185	Olfr986	olfactory recept	Chr9: 40.187079	6.16062351	10.7	Chr1: 70.759517	-0.3013	67	0.01	0	0.1862	0.3624281
10356878			Affy_1035687	adult male hypo	Chr1: 95.583836	6.47756471	8.4	Chr17: 86.758069	-0.3013	67	0.01	0	0	1
10469936	67122	32649	Nrarp	Notch-regulated	Chr2: 25.180758	7.77044704	11.1	Chr3: 42.149120	-0.3013	67	0.01	0.39842	-0.3394	0.0898841
10341600			Affy_1034160	Affymetrix Mous	ChrUn: 1.000000	7.31571761	11.1	Chr19: 19.868858	-0.3012	67	0.01	0	0	1
10376513	216799	3600	Nlrp3	NLR family, pyr	Chr11: 59.541585	7.5398	8.7	Chr5: 143.513448	-0.3011	67	0.01	0.43998	-0.0799	0.6981861
10403722			Affy_1040372	Affymetrix Mous	Chr13: 14.943157	4.90145884	10.8	Chr19: 19.868858	-0.3011	67	0.01	0	0	1
10341481			Affy_1034148	Affymetrix Mous	ChrUn: 1.000000	5.75774119	11.2	Chr18: 25.697926	-0.3011	67	0.01	0	0	1
10390705	353155	17530	Gjd3	gap junction pro	Chr11: 98.980429	9.23937643	11.2	Chr9: 58.877034	0.3006	67	0.01	0.30177	0	1
10475932	70370	11489	Fbln7	fibulin 7	Chr2: 128.863978	7.3541294	12.8	Chr12: 86.908999	0.30044	67	0.01	0.25637	0	1
10552037	282619	17900	Sbsn	suprabasin	Chr7: 30.751471	6.92831764	15.1	Chr7: 36.449783	0.3004	67	0.01	0.29832	-0.0703	0.7330361
10378271	66874	10231	1200014J11F	RIKEN cDNA 11	Chr11: 73.047880	10.3566118	13.1	ChrX: 117.300315	-0.3003	67	0.01	0	-0.084	0.6831829
10340174			Affy_1034017	Affymetrix Mous	ChrUn: 1.000000	10.370753	12	Chr19: 58.577712	0.30013	67	0.01	0	0	1
10501629	229776	75343	Cdc14a	CDC14 cell divi	Chr3: 116.272553	9.25312948	10	Chr9: 65.547036	-0.3001	67	0.01	0.18851	-0.2867	0.1556651
10474450	241612	15107	Slc5a12	solute carrier fa	Chr2: 110.597298	6.27623528	7.2	Chr12: 29.272288	0.29997	67	0.01	0.37208	-0.1065	0.6046225
10518855	242785	8902	Klhl21	kelch-like 21 (D	Chr4: 152.008997	8.18815298	8.9	Chr1: 192.141559	0.29982	67	0.01	0	0.06962	0.7354168
10450845	17441	110875	Mog	myelin oligoden	Chr17: 37.010740	7.46865882	8.5	Chr1: 192.141559	0.29967	67	0.01	0.4604	-0.0844	0.6819927
10477120			Affy_1047712	Affymetrix Mous	Chr2: 152.417261	4.478	11.8	Chr2: 5.653007	-0.2996	67	0.01	0	0	1
10535027	76658	86127	1700123K08F	RIKEN cDNA 17	Chr5: 138.561840	6.82935296	8.8	Chr12: 86.105698	0.29953	67	0.01	0	0.26474	0.1912229
10534120	109900	32	Asl	argininosuccina	Chr5: 130.011264	9.15127059	9.8	Chr3: 36.834801	0.29953	67	0.01	0.61837	0.71982	3.394E-05
10494005	1E+08	86290	Gm10696	predicted gene	Chr3: 93.909824	6.72414118	8.1	Chr6: 17.630009	0.29948	67	0.01	0.30009	0	1
10499969	1E+08	86290	Gm10696	predicted gene	Chr3: 93.726973	6.72414118	8.1	Chr6: 17.630009	0.29948	67	0.01	0.30009	0	1
10499979	1E+08	86290	Gm10696	predicted gene	Chr3: 94.175429	6.72414118	8.1	Chr6: 17.630009	0.29948	67	0.01	0.30009	0	1
10427845	1E+08		F830212C03F	RIKEN cDNA F	Chr15: 12.634162	6.05603529	7.3	Chr5: 144.449880	0.29943	67	0.01	0	0	1
10589695	235636	57148	Rtp3	receptor transp	Chr9: 110.986319	6.05022351	12.2	Chr9: 48.069655	0.2994	67	0.01	0	0.78371	2.185E-06
10523245	384198	86824	Fam47e	family with sequ	Chr5: 92.571537	7.15134117	10.1	Chr17: 24.200704	0.29939	67	0.01	0	0	1
10343977			Affy_1034397	Affymetrix Mous	ChrUn: 1.000000	6.92976471	12.3	Chr14: 54.736169	-0.2994	67	0.01	0	0	1
10570141	73618		1700128E19F	RIKEN cDNA 17	Chr8: 11.713264	6.08937649	9.3	Chr18: 29.528522	0.29927	67	0.01	0	-0.141	0.4921611
10409994	435366		Gm5665	predicted gene	Chr13: 62.699399	6.0733412	14	Chr7: 3.078244	-0.2992	67	0.01	0	0	1
10419429	259147	71986	Olfr723	olfactory recept	Chr14: 49.928613	5.64231763	11.2	Chr12: 12.942345	-0.2992	67	0.01	0	0.39264	0.0472446
10360185			Affy_1036018	Affymetrix Mous	Chr1: 171.909037	11.6004706	11.7	Chr5: 118.918193	0.29901	67	0.01	0	0	1
10404316	13529	49230	Prl8a2	prolactin family	Chr13: 27.345673	5.7266235	14.5	Chr15: 74.175093	-0.299	67	0.01	0.3895	-0.0017	0.9934083
10576844	73072	57724	BC068157	cDNA sequence	Chr8: 4.209543	7.08665881	8.5	Chr15: 14.390519	0.29894	67	0.01	0	0.06818	0.7406981
10532542	56747	10895	Sez6l	seizure related	Chr5: 112.419151	7.53067059	10.7	Chr8: 24.907439	0.29882	67	0.01	0.47273	0.03944	0.848317
10526514	60363	8646	Cldn15	claudin 15	Chr5: 136.967869	7.64710589	9.3	Chr5: 45.356295	0.29876	67	0.01	0.40474	-0.1714	0.4024895
10472382	110876	75001	Scn2a1	sodium channel	Chr2: 65.688608	7.25676471	11.3	Chr5: 139.505838	0.2986	67	0.01	0.40764	-0.0275	0.8940129
10583753	624219	83285	Gm6484	predicted gene	Chr9: 21.833483	8.11825881	9.9	Chr8: 24.382366	0.29856	67	0.01	0.50679	0	1
10468974	227526	27965	Cdnf	cerebral dopam	Chr2: 3.513063	7.14618823	8	Chr4: 9.653169	0.29852	67	0.01	0.32223	0	1
10607111	245651		Gm4995	predicted pseud	ChrX: 142.533439	8.48275293	9.1	Chr4: 4.036026	0.2984	67	0.01	0	0	1
10530615	433904	78179	Ociad2	OCIA domain co	Chr5: 73.322199	7.00657647	10.7	Chr5: 36.513000	0.29838	67	0.01	0	0.13633	0.5066424
10431546	72962	1474	Tymp	thymidine phos	Chr15: 89.371637	8.38208234	10.8	Chr10: 111.073834	0.29826	67	0.01	0.63066	0	1
10408367	15192	56406	Hdgfl1	hepatoma deriv	Chr13: 26.768173	6.97859999	10.9	Chr17: 12.315221	0.29813	67	0.01	0.36351	-0.0865	0.6742896
10589909	636931	9076	Trim71	tripartite motif-c	Chr9: 114.515697	7.19316471	17.9	Chr4: 156.183776	0.29809	67	0.01	0.31989	0.44406	0.0230503
10411668	18260	1905	Ocln	occludin	Chr13: 100.497317	6.00214116	11.5	ChrX: 61.058643	0.29802	67	0.01	0.41166	0.04821	0.8151012
10361887	64058	11098	Perp	PERP, TP53 ap	Chr10: 18.845071	6.86895298	8.6	Chr8: 95.747331	0.29788	67	0.01	0.4632	-0.0913	0.6575076
10357339	72585	16937	Lypd1	Ly6/Plaur doma	Chr1: 125.872043	7.73125882	11.9	Chr4: 102.851020	0.2977	67	0.01	0.46978	0.03045	0.8826025
10345183	234854	55769	Cdk10	cyclin-dependen	Chr1: 30.769900	9.06761177	12.3	Chr17: 75.881027	-0.2977	67	0.01	0.39049	0.18442	0.3671157
10514219	1E+08		Scarna8	small Cajal bod	Chr4: 86.586453	7.0858706	10.4	Chr4: 5.599068	-0.2976	67	0.01	0	0	1
10543306	269831	8212	Tspan12	tetraspanin 12	Chr6: 21.771391	8.81623534	10.4	Chr15: 79.518120	0.29747	67	0.01	0.27638	0.31768	0.1137755
10440302	15557	37361	Htr1f	5-hydroxytrypta	Chr16: 64.924729	7.40650588	13.5	Chr9: 58.877034	0.29746	67	0.01	0.41741	-0.0345	0.8670496
10342032			Affy_1034203	Affymetrix Mous	ChrUn: 1.000000	5.07164704	14.3	ChrX: 50.423970	-0.2973	67	0.01	0	0	1
10343610			Affy_1034361	Affymetrix Mous	ChrUn: 1.000000	8.17207057	13.5	Chr1: 88.349769	0.29723	67	0.01	0	0	1
10578423	1E+08		Gm9908	predicted gene	Chr8: 44.934761	7.95590588	10.3	Chr12: 92.568022	0.29722	67	0.01	0	0	1
10424381			Affy_1042438	Affymetrix Mous	Chr15: 60.210727	10.8516118	12.4	Chr11: 42.818374	0.29715	67	0.01	0	0	1

10341333			Affy_1034133	Affymetrix Mous	ChrUn: 1.000000	7.26311768	11.5	Chr13: 116.536749	-0.2971	67	0.01	0	0	1
10454353	68591	9931	Mocos	molybdenum co	Chr18: 24.644396	7.27828234	9.9	Chr1: 3.511204	0.29712	67	0.01	0	0.32251	0.1080859
10550980	72434	8672	Lypd3	Ly6/Plaur doma	Chr7: 24.636533	7.92747057	12.6	Chr2: 92.415016	0.29704	67	0.01	0.32888	-0.0714	0.7289263
10470141	78076	69532	Lcn8	lipocalin 8	Chr2: 25.653118	6.5538706	9.8	Chr11: 50.745266	0.29703	67	0.01	0.43996	-0.1061	0.6060813
10429859	75475	90938	Oplah	5-oxoprolinase	Chr15: 76.296603	8.13668235	8.6	ChrX: 61.058643	0.297	67	0.01	0.5126	0.41857	0.0333226
10572378	12845	74	Comp	cartilage oligom	Chr8: 70.373558	7.6605647	12	Chr4: 156.121747	0.29692	67	0.01	0.55945	-0.1418	0.4895067
10344436			Affy_1034443	Affymetrix Mous	ChrUn: 1.000000	5.02319997	12	ChrX: 167.394896	-0.2968	67	0.01	0	0	1
10533088	1E+08		Gm10399	predicted gene	Chr5: 117.318745	8.09983531	17.3	Chr1: 192.528101	0.29668	67	0.01	0	0	1
10429446	268816	66168	Gm628	predicted gene	Chr15: 73.830884	7.97678825	7.6	Chr4: 156.121747	0.29664	67	0.01	0	0.21188	0.2987646
10358177	67313	10103	5730559C18I	RIKEN cDNA 5	Chr1: 136.213531	7.6598706	11.6	Chr4: 156.183776	0.29651	67	0.01	0	-0.2515	0.2151755
10340218			Affy_1034021	Affymetrix Mous	ChrUn: 1.000000	6.65062351	12.2	Chr9: 28.000000	-0.2964	67	0.01	0	0	1
10418971	30044	69152	Opn4	opsin 4 (melanc	Chr14: 34.591302	7.74196474	10.7	Chr15: 3.977909	0.29635	67	0.01	0.33218	0.0282	0.8912385
10385203	23964	22672	Odz2	odd Oz/ten-m h	Chr11: 36.007648	8.07527061	11.6	Chr8: 25.520489	0.29635	67	0.01	0.41524	-0.1773	0.386307
10339486			Affy_1033948	Affymetrix Mous	ChrUn: 1.000000	6.22394117	14.9	Chr1: 185.862034	-0.2963	67	0.01	0	0	1
10343773			Affy_1034377	Affymetrix Mous	ChrUn: 1.000000	5.66478826	7.9	ChrX: 64.161107	-0.2963	67	0.01	0	0	1
10367626	73419	41557	1700052N19I	RIKEN cDNA 1	Chr10: 4.432512	8.85747058	9	Chr3: 3.074240	-0.2963	67	0.01	0	0.05041	0.8067902
10450363	1E+08		Snord52	small nucleolar	Chr17: 34.950952	7.35540002	11.9	Chr11: 50.577069	-0.2962	67	0.01	0	0	1
10467153	240638	81055	Slc16a12	solute carrier fa	Chr19: 34.668406	6.7962706	11.1	Chr13: 106.343092	0.29615	67	0.01	0.37613	0.25306	0.2122745
10580771	109006	10658	Ciapin1	cytokine induce	Chr8: 94.819804	9.7313059	69	Chr8: 94.374289	-0.2961	67	0.01	0.54539	0.12885	0.5304643
10603492	53627	41529	Porcn	porcupine homo	ChrX: 8.193849	7.68124705	10.5	Chr6: 105.808926	0.29609	67	0.01	0.54994	-0.0744	0.7180683
10501959			Affy_1050195	Affymetrix Mous	Chr3: 125.042259	6.27941178	12.1	Chr7: 142.462521	0.29603	67	0.01	0	0	1
10504002	20731	7954	Spink4	serine peptidas	Chr4: 40.920056	7.10132941	11.7	Chr19: 10.708414	0.296	67	0.01	0.40078	-0.0904	0.660573
10348062	227327	17049	B3gnt7	UDP-GlcNAc:be	Chr1: 86.303244	8.1491294	7.8	Chr11: 89.612498	0.29576	67	0.01	0.47781	-0.095	0.6443668
10343066			Affy_1034306	Affymetrix Mous	ChrUn: 1.000000	7.00014118	16.7	Chr6: 117.480394	-0.2958	67	0.01	0	0	1
10572271	107770	77694	Tm6sf2	transmembrane	Chr8: 70.072932	7.67276472	10.9	Chr15: 30.064251	0.29553	67	0.01	0.33052	0.3965	0.0449223
10363901	104156	3276	Etv5	ets variant gene	Chr10: 71.704288	8.71318825	12.5	Chr1: 21.638463	-0.2955	67	0.01	0.47641	-0.1903	0.35167
10448312	56863	10656	Cldn9	claudin 9	Chr17: 23.682584	7.51141175	9.9	Chr15: 74.175093	0.29543	67	0.01	0.28395	0.12662	0.5376531
10405334	218268	100945	Eif4e1b	eukaryotic trans	Chr13: 54.784003	7.94976466	9.7	Chr2: 5.653007	0.29543	67	0.01	0	0.08052	0.6957984
10588505	76491	9125	Abhd14b	abhydrolase do	Chr9: 106.448661	7.85808238	57	Chr9: 106.033740	0.29513	67	0.01	0	0.40764	0.0387236
10481092	67512	4678	Agpat2	1-acylglycerol-3	Chr2: 26.593090	8.90769408	10.1	Chr9: 30.479878	0.29499	67	0.02	0.54999	0.35672	0.0736372
10595046	1E+08		Gm3671	predicted gene	Chr9: 75.693653	12.4527764	11.3	Chr17: 21.686210	0.29489	67	0.02	0	0	1
10418989			Affy_1041898	Affymetrix Mous	Chr14: 36.855923	7.55021175	59.2	Chr19: 4.845967	0.29479	67	0.02	0	0	1
10579331	23886	3576	Gdf15	growth different	Chr8: 70.629391	7.25601179	13.4	Chr15: 3.977909	0.29463	67	0.02	0.72979	0.3748	0.0592241
10569504	79201	84848	Tnfrsf23	tumor necrosis	Chr7: 143.665807	7.38505881	14.6	Chr7: 45.140566	0.29458	67	0.02	0.40878	-0.1313	0.5226745
10412823	77981		B230110C06I	RIKEN cDNA B	Chr14: 15.438155	6.79868235	9.1	Chr1: 189.136357	0.29454	67	0.02	0	0	1
10490913	12350	31298	Car3	carbonic anhyd	Chr3: 14.863509	9.41835288	11.3	Chr11: 63.073481	0.29449	67	0.02	0.58944	0.42147	0.0319986
10340670			Affy_1034067	Affymetrix Mous	ChrUn: 1.000000	8.01907061	13.3	Chr10: 28.843564	-0.2944	67	0.02	0	0	1
10428839	546638		Gm5959	predicted gene	Chr15: 58.846590	7.65134117	8.2	Chr11: 42.818374	0.29436	67	0.02	0	0	1
10452734	11682	68387	Alk	anaplastic lymp	Chr17: 71.868988	7.30200001	9.4	Chr4: 156.121747	0.2943	67	0.02	0.54414	-0.0223	0.9138168
10574276	54672	18129	Gpr97	G protein-coupl	Chr8: 95.017732	8.01495295	10.7	Chr11: 8.836724	0.29429	67	0.02	0.46691	0.07599	0.7121792
10426812	14555	5593	Gpd1	glycerol-3-phos	Chr15: 99.717587	8.37968231	11.4	Chr11: 89.751422	0.29421	67	0.02	0.55996	0.24564	0.2264505
10412555	218695		Gm10044	predicted gene	Chr14: 7.791480	7.87387058	7.1	Chr14: 19.755208	0.29418	67	0.02	0	0	1
10378785	320522	82363	Bhlha9	basic helix-loop	Chr11: 76.672470	7.45347057	11	Chr15: 3.977909	0.29404	67	0.02	0.37409	0	1
10576857	21856	4631	Timm44	translocase of i	Chr8: 4.259734	9.52561178	11.7	Chr1: 74.072831	-0.2939	67	0.02	0.52465	0.34082	0.0884104
10355658	260298	9706	Fev	FEV (ETS onco	Chr1: 74.881509	9.16043527	10	Chr18: 74.487158	0.29374	67	0.02	0.52321	0.47509	0.014179
10507824	353371	75173	Oxct2b	3-oxoacid CoA	Chr4: 123.116259	8.32371762	11.8	Chr5: 118.918193	0.29365	67	0.02	0.41125	-0.0843	0.6822759
10383055	12416	7256	Cbx2	chromobox hom	Chr11: 119.023029	8.47440002	11.1	Chr1: 192.141559	0.29361	67	0.02	0.34282	0.33085	0.0987556
10594750	244911	77917	C2cd4a	C2 calcium-dep	Chr9: 67.830755	9.0228235	9	Chr15: 3.977909	0.29361	67	0.02	0	0	1
10372208	380660		Acss3	acyl-CoA synthe	Chr10: 106.936177	7.2572235	17.6	Chr13: 39.342992	0.29353	67	0.02	0	0	1
10427148	68744	45161	Zfp740	zinc finger prote	Chr15: 102.204677	9.64915291	10.2	Chr6: 117.480394	-0.2934	67	0.02	0	0	1
10408723	71213	18484	Cage1	cancer antigen	Chr13: 38.006055	5.91387061	9.2	Chr6: 29.070749	-0.2933	67	0.02	0.39305	-0.1102	0.592187
10484693	258630	74080	Olfr1141	olfactory recept	Chr2: 87.753056	5.13034118	11.1	Chr10: 111.161887	0.29328	67	0.02	0	0.01487	0.9425364
10537441	57869	49103	Adck2	aarF domain co	Chr6: 39.573876	8.15564706	12.8	Chr15: 19.105255	-0.2931	67	0.02	0	-0.1644	0.4221366
10552715	69578		2310016G11I	RIKEN cDNA 2	Chr7: 44.676965	6.6834706	10.6	Chr14: 30.957748	0.29307	67	0.02	0	-0.1521	0.458098
10338418			Affy_1033841	Affymetrix Mous	ChrUn: 1.000000	5.42134118	18	Chr5: 116.412853	-0.293	67	0.02	0	0	1
10538187	93695	1880	Gpnmb	glycoprotein no	Chr6: 49.036625	7.06379999	18.3	Chr17: 3.279758	0.29297	67	0.02	0.56586	-0.0959	0.6413117
10517715	18509	55665	Pax7	paired box gene	Chr4: 139.738081	7.53945881	10.2	Chr1: 189.029118	0.29294	67	0.02	0.42365	-0.0541	0.7928176
10542093	60345	11023	Nrip2	nuclear recepto	Chr6: 128.399766	7.60445885	11.6	Chr9: 110.635748	0.29293	67	0.02	0.21643	-0.1536	0.4538791
10424756	332110	16371	Mapk15	mitogen-activat	Chr15: 75.993769	7.27634114	11.4	ChrX: 9.334336	0.29284	67	0.02	0.35448	0.37324	0.0603696
10539238	232146	12969	Fam176a	family with sequ	Chr6: 82.041673	7.53409413	11.3	Chr4: 156.121747	0.29284	67	0.02	0	0	1
10583032			Affy_1058303	Affymetrix Mous	Chr9: 6.594253	6.73008234	14	ChrX: 136.048006	0.2928	67	0.02	0	0	1
10555007			Affy_1055500	Affymetrix Mous	Chr7: 96.210145	9.15799999	11.7	Chr4: 156.121747	0.29267	67	0.02	0	0	1
10599192	74365	11712	Lonrf3	LON peptidase	ChrX: 36.328409	7.19470588	9.8	Chr4: 5.599068	0.29262	67	0.02	0	-0.0393	0.8489218
10404452	20726	69093	Serpinb9d	serine (or cyste	Chr13: 33.192959	4.91730589	10	Chr1: 61.386946	-0.2926	67	0.02	0	0.24303	0.2315698
10562649			Affy_1056264	non-coding non	ChrUn: 1.000000	12.5166706	8	Chr18: 73.475369	0.29256	67	0.02	0	0	1
10569129	20287	7928	Sct	secretin	Chr7: 141.278330	7.86562352	7	Chr2: 32.614941	0.29247	67	0.02	0.52691	-0.1023	0.6189442
10484205	545428		Ccdc141	coiled-coil doma	Chr2: 77.029236	5.2149294	13.8	Chr1: 192.141559	-0.2924	67	0.02	0.2697	0	1
10469957	97031	52156	Tprn	taperin	Chr2: 25.262618	8.20104709	16	Chr16: 21.339002	-0.2923	67	0.02	0.30286	0	1
10339054			Affy_1033905	Affymetrix Mous	ChrUn: 1.000000	6.24274118	12.8	Chr1: 170.535283	-0.2922	67	0.02	0	0	1
10578794			Affy_1057879	Affymetrix Mous	Chr8: 57.962379	6.35903528	10.7	Chr1: 191.333382	0.29225	67	0.02	0	0	1
10459723	114615	10272	Elac1	elaC homolog 1	Chr18: 73.735038	8.33305881	9.3	Chr9: 120.697358	-0.2922	67	0.02	0.31823	0.0682	0.7406327
10354432	17912	7856	Myo1b	myosin IB	Chr1: 51.749765	8.29434118	11.2	Chr2: 65.866216	0.29215	67	0.02	0.27237	0.37418	0.0596741
10571274	14782	531	Gsr	glutathione redu	Chr8: 33.653238	10.4055295	25.2	Chr8: 36.402056	0.29206	67	0.02	0.74971	-0.0713	0.7292576
10365926	414105		4732465J04R	RIKEN cDNA 4	Chr10: 95.792571	6.55714117	9.9	Chr11: 42.818374	0.29203	67	0.02	0	0.5434	0.0041182
10341004	67128	2508	Ube2g1	ubiquitin-conjug	Chr11: 72.420763	4.90384705	14.9	Chr7: 139.319167	-0.2919	67	0.02	0.10679	-0.0358	0.8621116
10512621	56014	10459	Olfr70	olfactory recept	Chr4: 43.695000	7.46950588	11.3	Chr2: 168.424389	0.29187	67	0.02	0.23713	-0.0583	0.7772537
10366163	103098	18163	Slc6a15	solute carrier fa	Chr10: 103.367808	6.38489415	17.8	Chr18: 84.516845	0.29185	67	0.02	0.49049	0.07835	0.7036247
10576799	170780	77045	Cd209e	CD209e antiger	Chr8: 3.847965	7.08321178	8.3	Chr13: 46.973170	0.29185	67	0.02	0.38406	-0.0611	0.7666702
10419125	546249		Gm5929	predicted gene	Chr14: 42.685307	5.34725885	10.9	Chr4: 144.912885	-0.2918	67	0.02	0	0	1
10597377	72179	32144	Fbxl2	F-box and leuci	Chr9: 113.976707	8.27614117	14.5	Chr3: 105.115575	0.29182	67	0.02	0.28977	0	1
10416494	338337	5854	Cog3	component of o	Chr14: 75.754137	8.6993529	8.2	Chr4: 156.121747	0.29171	67	0.02	0	-0.2994	0.1372771
10437625			Affy_1043762	Affymetrix Mous	Chr16: 8.766169	5.15254115	9.9	Chr3: 17.540234	-0.2915	67	0.02	0	0	1
10563527	72088	77476	Ush1c	Usher syndrom	Chr7: 46.195350	7.17391764	10.4	Chr4: 156.183776	0.29151	67	0.02	0.22379	-0.117	0.5691843
10416689	380924	4684	Olfm4	olfactomedin 4	Chr14: 80.000302	7.8903647	9.6	Chr11: 13.674417	0.29141	67	0.02	0.53324	-0.0628	0.7604872
10531479	619319		4932430I15R	RIKEN cDNA 4	Chr5: 92.804220	6.05720003	7.7	Chr7: 73.746984	0.29139	67	0.02	0	0.21869	0.2831168
10338916			Affy_1033891	Affymetrix Mous	ChrUn: 1.000000	4.33075294	16	Chr5: 126.411859	-0.2914	67	0.02	0	0	1
10600685	71996	87397	1600014K23I	RIKEN cDNA 1	ChrX: 85.249686	8.24618825	7.8	Chr5: 102.108242	0.29125	67	0.02	0	0.01402	0.945802
10607493			Affy_1060749	Affymetrix Mous	ChrX: 156.455999	4.33025882	10	Chr1: 70.759517	-0.2912	67	0.02	0	0	1
Funding for The GeneNetwork: NIAAA (U01AA13499, U24AA13513), NIDA, NIMH, and NIAAA (P20-DA21131), NCI MMHCC (U01CA105417), and NCRR (U01NR 105417)														
PLEASE RETAIN DATA SOURCE INFORMATION WHENEVER POSSIBLE														

Supplementary Table 7

Citations: Please see http://www.genenetwork.org/reference.html

Trait : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Females : 10432032

Database : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Females

Date : October 08, 2017

Time : 23:59 GMT

Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record	Gene ID	mologene	Symbol	Description	Location (Chr: Mb)	ean Ex	Max LRS	LRS Location (Chr	Sample r	N Cases	Sample p(i	Lit Corr	Tissue r	sue p
10432032	22337	37297	Vdr	vitamin D receptor	Chr15: 97.854427	7.128	18.4	Chr12: 85.645335	1	67	0	1	1	1
10550632	403187	57022	Opa3	optic atrophy 3 (hu	Chr7: 19.228353	8.764	10.7	Chr4: 28.322409	0.67293	67	6.8E-11	0.25821	0.1584	0.4
10338161			Affy_103381	Affymetrix Mouse	ChrUn: 1.000000	9.181	8.4	Chr11: 27.337521	-0.6649	67	1.5E-10	0	0	1
10370025	20587	2310	Smarcb1	SWI/SNF related,	Chr10: 75.896773	10.52	10.9	Chr17: 3.227818	0.62321	67	5.3E-09	0.31857	-0.116	0.6
10508042	70088	11240	Meaf6	MYST/Esa1-assoc	Chr4: 125.085097	9.754	10.5	Chr19: 7.263405	0.6223	67	5.7E-09	0	0	1
10397708			Affy_103977	Affymetrix Mouse	Chr12: 99.505955	8.093	11.2	Chr2: 36.097874	-0.6207	67	6.4E-09	0	0	1
10396699	110606	1535	Fntb	farnesyltransferas	Chr12: 76.837467	7.936	11.2	Chr11: 83.708433	0.61857	67	7.6E-09	0.32032	-0.119	0.6
10510034	12371	31024	Casp9	caspase 9	Chr4: 141.793612	9.907	14.5	Chr4: 18.549080	0.61632	67	9E-09	0.33399	0.1942	0.3
10524781	77407	21361	Rab35	RAB35, member R	Chr5: 115.631987	10.57	12.2	ChrX: 9.334336	0.60998	67	1.5E-08	0.20687	0.1672	0.4
10383365	15239	37954	Hgs	HGF-regulated tyr	Chr11: 120.467675	9.554	13.2	ChrX: 21.061933	0.606	67	1.9E-08	0.28266	0.4339	0
10342517			Affy_103425	Affymetrix Mouse	ChrUn: 1.000000	8.759	10.5	Chr14: 64.705891	-0.5973	67	3.6E-08	0	0	1
10519219	79554	11550	Gltpd1	glycolipid transfer	Chr4: 155.864723	8.226	13.4	ChrX: 9.334336	0.59301	67	4.8E-08	0.2535	0.3578	0.1
10573266	18747	121574	Prkaca	protein kinase, cA	Chr8: 83.972988	9.215	10.5	Chr11: 35.687788	0.57845	67	1.3E-07	0.29269	-0.167	0.4
10541741	30853	3968	Mlf2	myeloid leukemia	Chr6: 124.931476	10.61	10.8	Chr17: 3.279758	0.57692	67	1.4E-07	0.22308	0.1944	0.3
10369174			Affy_103691	Affymetrix Mouse	Chr10: 54.712976	4	11.3	ChrX: 9.334336	0.57648	67	1.5E-07	0	0	1
10445941	1E+08		Gm4471	predicted gene 44	Chr17: 55.247730	7.621	10.1	Chr7: 24.937915	0.57171	67	2E-07	0	0	1
10376690	16897	31220	Llgl1	lethal giant larvae	Chr11: 60.699723	8.646	13.5	Chr17: 10.720847	0.57014	67	2.2E-07	0.30518	-0.191	0.4
10343365			Affy_103433	Affymetrix Mouse	ChrUn: 1.000000	9.416	11.2	ChrX: 10.699902	-0.5669	67	2.7E-07	0	0	1
10585767	69459	12312	Ubl7	ubiquitin-like 7 (bo	Chr9: 57.910986	10.11	11.7	Chr11: 82.187018	0.56541	67	3E-07	0	-0.183	0.4
10558921	66853	10687	Pnpla2	patatin-like phosp	Chr7: 141.455206	9.636	15.2	Chr13: 3.150000	0.56521	67	3E-07	0.31179	-0.065	0.8
10442254			Affy_104422	Affymetrix Mouse	Chr17: 21.808186	9.244	11.3	Chr9: 94.904747	-0.5622	67	3.6E-07	0	0	1
10339917			Affy_103399	Affymetrix Mouse	ChrUn: 1.000000	8.969	9.5	Chr7: 68.539279	-0.5621	67	3.6E-07	0	0	1
10534990	21343	7561	Taf6	TAF6 RNA polyme	Chr5: 138.178617	9.33	14.3	Chr19: 7.273188	0.56193	67	3.7E-07	0.18339	-0.128	0.5
10364249			Affy_103642	Affymetrix Mouse	Chr10: 77.044623	8.854	9	ChrX: 10.699902	-0.5607	67	4E-07	0	0	1
10460057	110796	4227	Tshz1	teashirt zinc finger	Chr18: 84.012541	9.076	15.5	Chr12: 92.568022	0.56059	67	4E-07	0.25241	0.2863	0.2
10579772			Affy_105797	Affymetrix Mouse	Chr8: 76.274344	8.052	10.5	Chr14: 54.736169	-0.5606	67	4E-07	0	0	1
10339390			Affy_103393	Affymetrix Mouse	ChrUn: 1.000000	9.682	8.7	Chr7: 36.497805	-0.5601	67	4.1E-07	0	0	1
10451434	21770	37661	Ppp2r5d	protein phosphata	Chr17: 46.682988	9.585	9.5	Chr7: 36.620249	0.55877	67	4.5E-07	0.24914	0.0632	0.8
10416653	211255	41849	Kbtbd7	kelch repeat and B	Chr14: 79.426511	8.967	10.7	Chr11: 83.708433	0.55742	67	4.8E-07	0.1897	-0.146	0.5
10490852			Affy_104908	Affymetrix Mouse	Chr3: 11.483826	10.22	10.7	Chr17: 21.690414	-0.5567	67	5E-07	0	0	1
10560592	56457	37464	Clptm1	cleft lip and palate	Chr7: 19.631580	11.23	11.2	Chr13: 91.471415	0.55651	67	5.1E-07	0.25145	0.3656	0.1
10340848	18107	69027	Nmt1	N-myristoyltransfe	Chr11: 103.059989	7.868	7.9	Chr2: 160.116565	-0.5563	67	5.2E-07	0.33014	0.2159	0.3
10439991	21787	4426	Tfg	Trk-fused gene	Chr16: 56.690332	9.989	8.8	Chr19: 7.273188	0.55587	67	5.3E-07	0.20345	-0.102	0.6
10478744			Affy_104787	Affymetrix Mouse	Chr2: 166.284320	6.949	10.1	Chr9: 94.904747	-0.5558	67	5.3E-07	0	0	1
10367475			Affy_103674	Affymetrix Mouse	Chr10: 129.056610	9.383	10.2	Chr13: 51.479103	-0.5543	67	5.8E-07	0	0	1
10493247	94232	41346	Ubqln4	ubiquilin 4	Chr3: 88.553716	8.904	12.5	Chr11: 80.036498	0.55212	67	6.6E-07	0.14608	0.0919	0.7
10362823	54198	36144	Snx3	sorting nexin 3	Chr10: 42.502029	11.45	14.3	Chr14: 49.407504	0.54971	67	7.7E-07	0.29095	-0.122	0.6
10480314			Affy_104803	Affymetrix Mouse	Chr2: 17.683668	6.943	10.5	ChrX: 9.334336	-0.5493	67	7.9E-07	0	0	1
10454353	68591	9931	Mocos	molybdenum cofa	Chr18: 24.644396	7.232	9.6	Chr4: 46.914512	0.54873	67	8.1E-07	0	0.2835	0.2
10362536			Affy_103625	Affymetrix Mouse	Chr10: 38.831348	10.08	7.1	Chr17: 21.690414	-0.5486	67	8.2E-07	0	0	1
10370931	17347	49674	Mknk2	MAP kinase-intera	Chr10: 80.665327	11.34	12.3	ChrX: 9.334336	0.54834	67	8.3E-07	0.32159	0.1083	0.6
10578681			Affy_105786	Affymetrix Mouse	Chr8: 49.181793	10.71	12.5	Chr18: 24.676883	-0.5482	67	8.4E-07	0	0	1
10373521	19344	104027	Rab5b	RAB5B, member R	Chr10: 128.677877	10.33	12.1	ChrX: 9.334336	0.54748	67	8.7E-07	0.21757	-0.104	0.6
10413008	73068	18313	Fut11	fucosyltransferase	Chr14: 20.694968	9.573	11.9	Chr14: 9.528965	0.54572	67	9.7E-07	0.13954	0.17	0.4
10576556			Affy_105765	Affymetrix Mouse	Chr8: 125.528873	9.178	9.4	Chr11: 83.708433	-0.5446	67	1E-06	0	0	1
10587299	56542	69218	Ick	intestinal cell kina	Chr9: 78.113284	8.949	16.1	ChrX: 10.699902	0.54449	67	1E-06	0.31864	0.2506	0.2
10429739	67959	8614	Puf60	poly-U binding spl	Chr15: 76.070184	11.21	12.3	Chr13: 91.471415	0.54266	67	1.2E-06	0	-0.04	0.8
10493903	94060	79583	Lce3c	late cornified enve	Chr3: 92.957419	8.729	8.2	Chr8: 15.361363	-0.5425	67	1.2E-06	0.26969	0.0672	0.7
10339052			Affy_103390	Affymetrix Mouse	ChrUn: 1.000000	11.48	10.2	Chr17: 12.315221	-0.542	67	1.2E-06	0	0	1
10468217	54130	21173	Actr1a	ARP1 actin-relate	Chr19: 46.376813	10.12	9.9	ChrX: 9.334336	0.54144	67	1.2E-06	0.25748	0.0967	0.6
10517114			Affy_105171	Affymetrix Mouse	Chr4: 133.797582	7.62	10.2	Chr8: 24.838961	-0.5404	67	1.3E-06	0	0	1
10393125	60441	11476	Mrpl38	mitochondrial ribo	Chr11: 116.131821	9.829	10.3	Chr14: 72.300282	0.53994	67	1.3E-06	0.17101	-0.04	0.8
10460879	17283	7418	Men1	multiple endocrine	Chr19: 6.335038	9.654	11.7	Chr19: 25.666449	0.53929	67	1.4E-06	0.4002	0.221	0.3
10581289	11972	3444	Atp6v0d1	ATPase, H+ trans	Chr8: 105.524465	10.71	11.3	Chr4: 16.446894	0.53927	67	1.4E-06	0.24984	0.1761	0.4
10390227	268470	11319	Ube2z	ubiquitin-conjugat	Chr11: 96.047430	10.18	13.3	Chr15: 83.114394	0.53904	67	1.4E-06	0.17171	-0.423	0
10569306	50774		Krtap5-1	keratin associated	Chr7: 142.280268	9.199	10.7	ChrX: 9.334336	-0.5385	67	1.5E-06	0.23741	-0.389	0
10455989	66810	69245	Rbm22	RNA binding motif	Chr18: 60.560768	10.4	9.5	Chr11: 87.748713	0.5379	67	1.5E-06	0	0.3032	0.1
10374364	11652	48773	Akt2	thymoma viral pro	Chr7: 15.829574	11.18	11.1	ChrX: 9.334336	0.53777	67	1.5E-06	0.38388	-0.552	0
10358419			Affy_103584	Affymetrix Mouse	Chr1: 144.608982	4.013	12.4	ChrX: 9.334336	0.53403	67	1.9E-06	0	0	1
10409330	97820	10720	Kiaa1191	brain-derived resc	Chr13: 54.551223	9.862	14.1	Chr13: 91.471415	0.53354	67	1.9E-06	0.16944	0	1
10543080	19826	40648	Rnps1	ribonucleic acid bi	Chr17: 7.739493	10.94	8.2	Chr12: 98.800000	0.53331	67	2E-06	0.22469	-0.142	0.5
10373651	259165	73933	Olfr814	olfactory receptor	Chr10: 129.885740	10.08	7.9	Chr18: 24.676883	-0.5333	67	2E-06	0	0.3955	0
10341834			Affy_103418	Affymetrix Mouse	ChrUn: 1.000000	8.16	10.6	Chr5: 135.879195	-0.5333	67	2E-06	0	0	1
10552249	627844	114049	Gm6795	predicted gene 67	Chr7: 37.876580	9.334	11.4	Chr18: 24.676883	-0.5329	67	2E-06	0	0	1
10465263	19708	21265	Dpf2	D4, zinc and doub	Chr19: 5.897135	10.6	9.1	Chr7: 36.497805	0.53284	67	2E-06	0.25321	-0.36	0.1
10343035	71722	87637	Cic	capicua transcripti	Chr7: 26.078242	8.946	13.5	Chr7: 36.716982	0.53184	67	2.1E-06	0.30387	0.1345	0.5
10342929			Affy_103429	Affymetrix Mouse	ChrUn: 1.000000	8.584	13.3	Chr17: 5.991544	0.53166	67	2.1E-06	0	0	1
10577858	67384	31270	Bag4	BCL2-associated	Chr8: 25.764536	8.996	15.4	Chr11: 83.708433	0.53117	67	2.2E-06	0.32445	0.2284	0.3
10338012			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.361	10.5	Chr18: 24.676883	0.52938	67	2.4E-06	0	0	1
10476270	69596	23095	Ap5s1	adaptor-related pr	Chr2: 131.210440	9.425	10.6	Chr7: 44.328346	0.52934	67	2.4E-06	0	0	1
10418169	74272		1700054O19	RIKEN cDNA 170	Chr14: 25.706506	9.182	9.6	Chr11: 90.546094	-0.529	67	2.5E-06	0	0.035	0.9
10343589			Affy_103435	Affymetrix Mouse	ChrUn: 1.000000	12.19	10.4	Chr13: 51.479103	-0.5289	67	2.5E-06	0	0	1
10496202			Affy_104962	Affymetrix Mouse	Chr3: 135.147408	4.693	10.4	Chr8: 117.545014	0.52867	67	2.5E-06	0	0	1
10577948	66653	10127	Brf2	BRF2, subunit of R	Chr8: 27.123364	8.332	12.9	ChrX: 9.334336	0.52855	67	2.5E-06	0	-0.457	0
10595791			Affy_105957	Affymetrix Mouse	Chr9: 96.097221	10.29	6.9	Chr7: 137.022105	-0.5283	67	2.6E-06	0	0	1
10598409	209446	4755	Tcfe3	transcription facto	ChrX: 7.762673	8.944	15.4	ChrX: 9.334336	0.5276	67	2.7E-06	0.35987	0.1503	0.5
10461439	76267	22753	Fads1	fatty acid desatura	Chr19: 10.182921	10.17	32.7	Chr19: 10.043999	0.52686	67	2.8E-06	0.35432	-0.124	0.5
10454469	225339	69488	Ammecr1l	AMME chromosor	Chr18: 31.759880	9.424	7.8	Chr15: 85.627995	0.52686	67	2.8E-06	0	0.4937	0
10390328	57765	8353	Tbx21	T-box 21	Chr11: 97.098007	8.483	19.5	Chr1: 147.054880	0.52652	67	2.8E-06	0.35032	-0.049	0.8
10430510	223693	6396	Tmem184b	transmembrane pr	Chr15: 79.360684	9.813	12.8	Chr9: 10.573030	0.52645	67	2.8E-06	0	-0.113	0.6

10561994	75660	12616	Lin37	lin-37 DREAM Mu	Chr7: 30.555441	9.363	21	Chr7: 36.497805	0.52592	67	2.9E-06	0	-0.147	0.5
10480256	1E+08		Gm10848	predicted gene 10	Chr2: 14.707612	4.394	13.4	ChrX: 9.334336	0.52579	67	2.9E-06	0	0	1
10382890	74136	37719	Sec14l1	SEC14-like 1 (S. c	Chr11: 117.115238	9.565	9.8	Chr11: 83.708433	0.52577	67	2.9E-06	0.18644	0.0102	1
10425578	20286	9735	Zc3h7b	zinc finger CCCH	Chr15: 81.768001	9.339	12.3	Chr11: 33.490349	0.52577	67	3E-06	0.14524	-0.479	0
10338014			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.029	11.8	Chr18: 24.676883	0.52518	67	3E-06	0	0	1
10483157			Affy_104831	predicted gene	Chr2: 64.570033	6.456	14.1	Chr13: 95.700999	-0.525	67	3.1E-06	0	0	1
10529330	24116	68478	Whsc2	Wolf-Hirschhorn s	Chr5: 33.897922	9.442	9.6	Chr9: 21.613311	0.52406	67	3.2E-06	0.30244	0.0641	0.8
10458547	26384	38054	Gnpda1	glucosamine-6-ph	Chr18: 38.327550	9.551	11.8	Chr1: 145.201671	0.52378	67	3.3E-06	0.26104	0.4075	0
10586274	69882	12774	2010321M09	RIKEN cDNA 201	Chr9: 64.960832	9.712	12.1	Chr5: 137.010795	0.52377	67	3.3E-06	0	0.0786	0.7
10400795	64010	32517	Sav1	salvador homolog	Chr12: 69.965012	10.22	14.7	Chr11: 83.064807	0.5233	67	3.4E-06	0.32568	0.0616	0.8
10522430	100737	22867	Dcun1d4	DCN1, defective i	Chr5: 73.481055	8.38	18.1	ChrX: 9.334336	0.52254	67	3.5E-06	0	-0.216	0.3
10340473			Repeat_Affy	(TG)n microsatelli	ChrUn: 1.000000	11.62	10.5	Chr18: 24.676883	-0.5225	67	3.5E-06	0	0	1
10370665	216154	64602	Med16	mediator complex	Chr10: 79.894709	9.536	9.6	ChrX: 10.699902	0.52246	67	3.5E-06	0.27815	0.0868	0.7
10488031			Affy_104880	Affymetrix Mouse	Chr2: 136.026151	4.355	11.5	Chr5: 110.582881	0.52244	67	3.5E-06	0	0	1
10606315	407786	47969	Taf9b	TAF9B RNA polyr	ChrX: 106.206874	9.703	9.5	Chr13: 91.471415	0.52193	67	3.6E-06	0.22338	-0.543	0
10493530	68911	44519	Pygo2	pygopus 2	Chr3: 89.430261	9.147	9.2	Chr19: 8.707699	0.52173	67	3.7E-06	0.32416	0.1737	0.4
10535637	71799	33161	Ptcd1	pentatricopeptide	Chr5: 145.147526	8.881	11	Chr4: 18.549080	0.52091	67	3.8E-06	0	0	1
10582171	102193	41193	Zdhhc7	zinc finger, DHHC	Chr8: 120.081095	9.495	10.7	Chr19: 8.707699	0.52071	67	3.9E-06	0.21404	0.4325	0
10572786	11767	4017	Ap1m1	adaptor-related pr	Chr8: 72.240132	10.96	8.7	Chr4: 16.430885	0.52042	67	3.9E-06	0.20764	-0.31	0.1
10515363	67096	12082	Mmachc	methylmalonic aci	Chr4: 116.702434	9.793	11.6	Chr2: 36.097874	0.52015	67	4E-06	0.26577	-0.105	0.6
10383754			Affy_103837	predicted pseudog	Chr11: 3.625477	6.317	11.2	Chr7: 68.539279	0.51948	67	4.1E-06	0	0	1
10451248	74094	12534	Tjap1	tight junction asso	Chr17: 46.257874	8.354	12.4	Chr14: 49.407504	0.51936	67	4.2E-06	0.12291	0.0143	0.9
10372682	215436	41279	Slc35e3	solute carrier fami	Chr10: 117.733674	9.231	16.9	ChrX: 10.699902	0.51856	67	4.3E-06	0	0.4064	0
10408902	76137	41911	Ccdc90a	coiled-coil domain	Chr13: 43.540422	9.669	10.6	Chr1: 173.679184	0.51833	67	4.4E-06	0	0.3049	0.1
10484850	258468	103784	Olfr1254	olfactory receptor	Chr2: 89.788406	4.285	12.8	ChrX: 9.334336	0.51806	67	4.4E-06	0	0.3555	0.1
10577421	13218	85974	Defa-rs1	defensin, alpha, re	Chr8: 21.095074	8.23	7.7	Chr8: 16.725153	-0.518	67	4.4E-06	0.25616	0	1
10340925			Affy_103409	Affymetrix Mouse	ChrUn: 1.000000	10.97	8.7	Chr5: 113.382626	0.51793	67	4.5E-06	0	0	1
10524525	117146	13775	Ube3b	ubiquitin protein li	Chr5: 114.380607	9.61	15	Chr7: 36.760233	0.51779	67	4.5E-06	0.22968	0.1765	0.4
10442435	19826	40648	Rnps1	ribonucleic acid bi	Chr17: 24.414675	10.94	10	Chr12: 98.800000	0.51753	67	4.6E-06	0.22469	-0.142	0.5
10340675			Affy_103406	Affymetrix Mouse	ChrUn: 1.000000	8.504	12	ChrX: 10.699902	-0.5174	67	4.6E-06	0	0	1
10450197	81497		Btnl5	butyrophilin-like 5	Chr17: 34.495919	7.777	11.8	Chr4: 142.912003	-0.5171	67	4.7E-06	0.11954	0	1
10340955			Affy_103409	Affymetrix Mouse	ChrUn: 1.000000	9.153	10.1	ChrX: 9.334336	-0.517	67	4.7E-06	0	0	1
10338010			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.18	11.3	ChrX: 9.334336	0.51678	67	4.8E-06	0	0	1
10340989			Affy_103409	Affymetrix Mouse	ChrUn: 1.000000	10.57	10.5	Chr17: 12.315221	-0.5165	67	4.8E-06	0	0	1
10601461	67407	79613	Cylc1	cylicin, basic prote	ChrX: 108.305797	5.356	10.9	Chr18: 49.946937	0.51645	67	4.8E-06	0	0.2823	0.2
10559175	114666		Krtap5-5	keratin associated	Chr7: 142.211859	8.946	10.2	Chr13: 91.644881	-0.5164	67	4.8E-06	0	-0.004	1
10473008	229279	62463	Hnrnpa3	heterogeneous nu	Chr2: 75.659277	12.62	14.1	Chr13: 91.471415	-0.5163	67	4.9E-06	0.2637	0	1
10397557			Affy_103975	predicted gene	Chr12: 88.329254	4.3	13.5	Chr9: 87.634869	0.51609	67	4.9E-06	0	0	1
10498576	17035	36361	Lxn	latexin	Chr3: 67.457997	8.298	30.7	Chr3: 65.670861	0.51596	67	5E-06	0.33639	0.1917	0.3
10500069	18720	93492	Pip5k1a	phosphatidylinosit	Chr3: 95.058551	9.79	11.1	Chr11: 83.708433	0.51565	67	5E-06	0.28115	-0.31	0.1
10471882	241327	35248	Olfml2a	olfactomedin-like 2	Chr2: 38.931980	7.735	25	Chr2: 36.097874	0.51536	67	5.1E-06	0.11104	-0.352	0.1
10339205			Affy_103392	Affymetrix Mouse	ChrUn: 1.000000	9.677	11.6	Chr13: 51.479103	-0.5151	67	5.2E-06	0	0	1
10420837	54616	1103	Extl3	exostoses (multipl	Chr14: 65.052063	9.849	12.2	Chr11: 83.708433	0.51484	67	5.3E-06	0.25851	-0.175	0.4
10594540	102595	11870	Plekho2	pleckstrin homolog	Chr9: 65.554384	10.38	15.3	Chr7: 35.152978	0.51405	67	5.5E-06	0	0	1
10443817	18771	3363	Pknox1	Pbx/knotted 1 hon	Chr17: 31.564801	9.35	8.9	Chr7: 45.140566	0.51402	67	5.5E-06	0.28179	-0.264	0.2
10368556	15214	22705	Hey2	hairy/enhancer-of-	Chr10: 30.832359	7.192	16.7	Chr1: 145.376780	0.5139	67	5.5E-06	0.35805	-0.354	0.1
10391277	80860	32760	Ghdc	GH3 domain conta	Chr11: 100.766332	7.946	10.6	Chr9: 3.400000	0.51381	67	5.5E-06	0.17921	-0.136	0.5
10338050			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.03	12	ChrX: 9.334336	0.51303	67	5.8E-06	0	0	1
10338524			Affy_103385	Affymetrix Mouse	ChrUn: 1.000000	10.4	9.2	Chr15: 30.075376	0.51299	67	5.8E-06	0	0	1
10604643	75514		1700013H16	RIKEN cDNA 170	ChrX: 53.742901	5.171	12	Chr17: 21.686210	0.51296	67	5.8E-06	0.13117	0.0273	0.9
10576173	1E+08		Gm16378	predicted gene 16	Chr8: 122.841731	5.018	11.1	Chr4: 32.100452	0.51225	67	6E-06	0	0	1
10338030			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.106	12.6	Chr18: 24.676883	0.5122	67	6E-06	0	0	1
10519940			Affy_105199	Affymetrix Mouse	Chr5: 20.092615	4.165	12.8	Chr11: 83.708433	0.51165	67	6.2E-06	0	0	1
10531645	50926	75314	Hnrpdl	heterogeneous nu	Chr5: 100.034721	11.17	9.4	Chr12: 104.719074	-0.5113	67	6.3E-06	0.24194	-0.288	0.2
10430956	109754	47921	Cyb5r3	NADH-cytochrome	Chr15: 83.153495	10.61	14.8	Chr12: 96.105011	0.51119	67	6.3E-06	0.25087	0.3637	0.1
10342345			Affy_103423	Affymetrix Mouse	ChrUn: 1.000000	8.794	11.7	Chr18: 24.162250	-0.5103	67	6.6E-06	0	0	1
10511803	77032	44732	2610029I01F	RIKEN cDNA 261	Chr4: 21.757384	9.411	13.9	Chr4: 28.322409	0.51021	67	6.7E-06	0	0.1452	0.5
10342667			Affy_103426	Affymetrix Mouse	ChrUn: 1.000000	6.238	9.2	Chr4: 45.948990	-0.5102	67	6.7E-06	0	0	1
10406663	11881	73870	Arsb	arylsulfatase B	Chr13: 93.771759	9.449	10.3	Chr7: 36.497805	0.50977	67	6.8E-06	0.31992	0.0822	0.7
10338032			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.078	11.8	Chr18: 24.676883	0.50974	67	6.8E-06	0	0	1
10344302			Affy_103443	Affymetrix Mouse	ChrUn: 1.000000	9.387	13.7	Chr14: 70.695506	0.50956	67	6.9E-06	0	0	1
10460582	107242	12869	AI837181	expressed sequer	Chr19: 5.425157	9.818	18.9	ChrX: 9.334336	0.50946	67	6.9E-06	0.16598	0.1195	0.6
10553131	68137	86772	Kdelr1	KDEL (Lys-Asp-G	Chr7: 45.872772	10.2	12.3	Chr9: 100.022005	0.50919	67	7E-06	0.2048	0.4919	0
10339037			Affy_103390	Affymetrix Mouse	ChrUn: 1.000000	8.59	11.5	Chr4: 46.914512	0.50916	67	7E-06	0	0	1
10489904	263876	4407	Spata2	spermatogenesis	Chr2: 167.481136	9.081	7.1	Chr9: 10.573030	0.50886	67	7.1E-06	0	0.3779	0.1
10507612	56401	10509	P3h1	prolyl 3-hydroxyla	Chr4: 119.232915	7.843	12.1	Chr11: 83.586335	0.50855	67	7.3E-06	0.29507	0	1
10394829			Affy_103948	Affymetrix Mouse	Chr12: 19.343933	10.31	9.5	Chr13: 92.688454	-0.5084	67	7.3E-06	0	0	1
10600308			Affy_106003	Affymetrix Mouse	ChrX: 73.809417	7.204	20.7	Chr4: 118.598522	-0.5078	67	7.5E-06	0	0	1
10478590	71971	12429	Zswim1	zinc finger, SWIM	Chr2: 164.822686	8.448	9.7	Chr4: 16.430885	0.50778	67	7.5E-06	0	-0.009	1
10591960	69091	3601	Vps26b	vacuolar protein s	Chr9: 27.007767	9.743	9.7	Chr19: 4.845967	0.5077	67	7.6E-06	0.21279	-0.106	0.6
10407390	19205	49188	Ptbp1	polypyrimidine tra	Chr10: 7.207119	10.04	13.1	Chr5: 146.682242	0.50692	67	7.9E-06	0.30735	0.3463	0.1
10486057	19344	104027	Rab5b	RAB5B, member F	Chr2: 116.527843	10.52	12.6	ChrX: 9.334336	0.50661	67	8E-06	0.21757	-0.104	0.6
10340028			Affy_103400	Affymetrix Mouse	ChrUn: 1.000000	12.17	9.5	Chr5: 150.597426	-0.5058	67	8.3E-06	0	0	1
10375614	14584	68439	Gfpt2	glutamine fructose	Chr11: 49.794187	7.296	8.7	Chr4: 58.363486	0.50582	67	8.3E-06	0.26628	-0.246	0.2
10589113	80987	9514	Nckipsd	NCK interacting pr	Chr9: 108.808380	8.298	15	Chr9: 108.969240	0.5057	67	8.4E-06	0.2019	-0.198	0.3
10342402			Affy_103424	Affymetrix Mouse	ChrUn: 1.000000	9.26	8.5	Chr3: 65.524002	-0.5055	67	8.5E-06	0	0	1
10579724	270066	105737	Slc35e1	solute carrier fami	Chr8: 72.481683	10.05	9.5	Chr16: 91.226807	0.50525	67	8.6E-06	0	0.2623	0.2
10379163	276846	41963	Pigs	phosphatidylinosit	Chr11: 78.328422	9.711	9.7	Chr9: 98.579310	0.50514	67	8.6E-06	0.15518	-0.194	0.3
10565250	80889	11209	Mesdc1	mesoderm develo	Chr7: 83.880495	8.107	14.8	Chr7: 85.068913	0.50503	67	8.7E-06	0.16393	0.1351	0.5
10375576	404336	72463	Olfr1380	olfactory receptor	Chr11: 49.563923	7.262	10.1	Chr18: 24.442754	-0.5049	67	8.7E-06	0	-0.261	0.2
10448593	224619	12998	Traf7	TNF receptor-asso	Chr17: 24.508850	10.32	9.9	Chr3: 21.366751	0.50482	67	8.7E-06	0.22049	0.0711	0.7
10391831	68087	5652	Dcakd	dephospho-CoA k	Chr11: 102.994047	8.647	9.3	Chr2: 36.097874	0.50451	67	8.9E-06	0	-0.18	0.4
10424252	76773	9968	Wdyhv1	N-terminal Gln am	Chr15: 58.141408	9.344	17.5	ChrX: 9.334336	0.50448	67	8.9E-06	0.23901	0	1
10338031			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	3.973	10.1	ChrX: 9.334336	0.50435	67	9E-06	0	0	1
10370837	21423	2408	Tcf3	transcription facto	Chr10: 80.409593	10.54	13.5	Chr17: 10.720847	0.50431	67	9E-06	0.33889	0.1245	0.5
10562661			Affy_105626	Affymetrix Mouse	Chr7: 42.706247	4.184	11.4	Chr2: 92.415016	0.50425	67	9E-06	0	0	1
10575034	12560	20425	Cdh3	cadherin 3	Chr8: 106.510891	7.735	12.7	Chr16: 13.680301	0.50347	67	9.4E-06	0.39452	0.1587	0.4
10425158	57028	101407	Pdxp	pyridoxal (pyridox	Chr15: 78.913919	7.574	11.6	Chr17: 5.991544	0.50336	67	9.4E-06	0.23757	-0.24	0.2

10427310	15382	88614	Hnrnpa1	heterogeneous nu	Chr15: 103.240417	12.33	13	Chr13: 89.422557	-0.503	67	9.6E-06	0.32282	-0.088	0.7
10532267	435864	114484	Vmn2r9	vomeronasal 2, re	Chr5: 108.842877	6.409	10.5	Chr18: 84.516845	-0.5027	67	9.7E-06	0	0	1
10569296	71623	110737	Krtap5-2	keratin associated	Chr7: 142.189458	8.889	10.6	Chr18: 24.676883	-0.5027	67	9.7E-06	0	0.409	0
10463211	84095	101681	Pi4k2a	phosphatidylinosit	Chr19: 42.090435	9.178	11.6	Chr3: 148.808672	0.50242	67	9.9E-06	0.29265	0.2227	0.3
10566512			Affy_105665	Affymetrix Mouse	Chr7: 105.642338	8.251	8.6	ChrX: 9.334336	-0.5014	67	1E-05	0	0	1
10348641	258484	74205	Olfr1410	olfactory receptor	Chr1: 92.607839	7.479	11.6	ChrX: 9.334336	-0.5012	67	1E-05	0	0.3811	0.1
10472467			Affy_104724	Affymetrix Mouse	Chr2: 68.625776	9.732	9.3	Chr18: 24.676883	-0.4992	67	1.2E-05	0	0	1
10440909	74387	49594	C21orf62	human chromosor	Chr16: 91.075692	10.26	9.1	Chr18: 24.676883	-0.4989	67	1.2E-05	0	0	1
10462507	23972	55840	Papss2	3'-phosphoadenos	Chr19: 32.595859	8.47	13	Chr1: 145.376780	0.49878	67	1.2E-05	0.35916	0.6268	0
10363403	69090	41079	Ascc1	activating signal c	Chr10: 60.002839	8.671	13	Chr10: 53.743148	0.49866	67	1.2E-05	0	0.3452	0.1
10582123	72552	100660	Hsdl1	hydroxysteroid de	Chr8: 119.561978	9.241	15.5	Chr18: 82.377768	0.49863	67	1.2E-05	0	-0.043	0.8
10338015			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	3.997	12.7	ChrX: 9.334336	0.4982	67	1.2E-05	0	0	1
10539592	232187		Smyd5	SET and MYND d	Chr6: 85.431989	8.918	10.5	Chr13: 92.688454	0.49789	67	1.2E-05	0.25361	-0.421	0
10405121	69211		2310081J21	RIKEN cDNA 231	Chr13: 50.118006	6.428	12.6	Chr9: 94.904747	-0.497	67	1.3E-05	0	-0.5	0
10405123	69211		2310081J21	RIKEN cDNA 231	Chr13: 50.262394	6.428	12.6	Chr9: 94.904747	-0.497	67	1.3E-05	0	-0.5	0
10409218	69211		2310081J21	RIKEN cDNA 231	Chr13: 50.679537	6.428	12.6	Chr9: 94.904747	-0.497	67	1.3E-05	0	-0.5	0
10600593	229279	62463	Hnrnpa3	heterogeneous nu	ChrX: 80.456737	12.84	13.8	Chr13: 91.471415	-0.497	67	1.3E-05	0.2637	0	1
10385941	57783	31355	Tnip1	TNFAIP3 interacti	Chr11: 54.900330	9.319	37.4	Chr11: 51.107252	0.49688	67	1.3E-05	0.34215	0.2484	0.2
10597969	654467		Gm10052	predicted pseudog	Chr9: 123.688864	12.5	13.8	Chr13: 89.422557	-0.4965	67	1.3E-05	0	0	1
10538965	14080	1106	Fabp1	fatty acid binding	Chr6: 71.199888	6.207	12.2	Chr4: 29.274068	0.49623	67	1.3E-05	0.38157	0.4678	0
10343017			Affy_103430	Affymetrix Mouse	ChrUn: 1.000000	6.037	14.2	Chr12: 86.105698	-0.4962	67	1.3E-05	0	0	1
10608330	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 13.045010	5.294	12.5	ChrX: 10.699902	0.49567	67	1.4E-05	0.21707	-0.014	0.9
10364984	16969	7820	Zbtb7a	zinc finger and BT	Chr10: 81.136271	9.244	11.3	Chr7: 36.716982	0.49537	67	1.4E-05	0.34905	0.0257	0.9
10557459	26417	55682	Mapk3	mitogen-activated	Chr7: 126.759626	9.688	11.6	ChrX: 9.334336	0.49526	67	1.4E-05	0.33958	0.3487	0.1
10534405	66138	5486	Wbscr22	Williams Beuren s	Chr5: 135.052959	9.709	11.2	Chr17: 12.315221	0.4952	67	1.4E-05	0.11784	0.2737	0.2
10376778	76293	36098	Mfap4	microfibrillar-asso	Chr11: 61.485444	8.609	14.6	Chr2: 178.977635	0.49485	67	1.4E-05	0	-0.134	0.5
10423172	66629	56942	Golph3	golgi phosphoprot	Chr15: 12.321496	10.41	9.7	Chr9: 99.822930	0.49446	67	1.5E-05	0.17786	0.3242	0.1
10454411	15382	88614	Hnrnpa1	heterogeneous nu	Chr15: 27.827390	12.8	13.4	Chr13: 89.422557	-0.4943	67	1.5E-05	0.32282	-0.088	0.7
10360105	30941	56572	Usp21	ubiquitin specific p	Chr1: 171.281949	10.09	13.8	ChrX: 9.334336	0.494	67	1.5E-05	0.22928	0.2208	0.3
10339890			Affy_103398	Affymetrix Mouse	ChrUn: 1.000000	9.542	8.1	Chr2: 88.346298	-0.4939	67	1.5E-05	0	0	1
10353731	114671	77996	4930444G20	RIKEN cDNA 493	Chr1: 32.545391	7.377	10.2	Chr17: 12.162949	-0.4937	67	1.5E-05	0	0.0854	0.7
10341988			Affy_103419	Affymetrix Mouse	ChrUn: 1.000000	13.08	9.9	Chr17: 5.991544	-0.4937	67	1.5E-05	0	0	1
10452998	73671	42242	Sult6b1	sulfotransferase fa	Chr17: 78.884897	5.584	10.9	Chr15: 79.518120	0.49356	67	1.5E-05	0.18483	-0.247	0.2
10340546			Affy_103405	Affymetrix Mouse	ChrUn: 1.000000	7.41	10.4	Chr19: 28.403278	-0.4935	67	1.5E-05	0	0	1
10425120	106039	39250	Gga1	golgi associated, g	Chr15: 78.877190	9.187	9.8	Chr19: 7.273188	0.49292	67	1.6E-05	0.21882	0.6149	0
10598467	18715	17098	Pim2	proviral integration	ChrX: 7.878306	9.463	12	Chr11: 35.687788	0.49267	67	1.6E-05	0.32659	-0.455	0
10536141	67181	9100	Ctdnep1	CTD nuclear enve	Chr7: 41.668606	8.908	9.3	Chr4: 59.835329	0.4926	67	1.6E-05	0.20651	0	1
10562627	67181	9100	Ctdnep1	CTD nuclear enve	Chr7: 41.668606	8.908	9.3	Chr4: 59.835329	0.4926	67	1.6E-05	0.20651	0	1
10484733	546769	77381	Olfr1174-ps	olfactory receptor	Chr2: 88.310832	9.57	11.1	Chr17: 21.690414	-0.4924	67	1.6E-05	0	0	1
10451421	71765	14290	Klhdc3	kelch domain cont	Chr17: 46.674550	10.49	9	Chr16: 91.226807	0.49234	67	1.6E-05	0.14939	0.2131	0.3
10572616	66498	11436	Dda1	DET1 and DDB1 a	Chr8: 71.469234	10.13	11.3	ChrX: 9.334336	0.4921	67	1.6E-05	0	0	1
10548859	60321	9466	Wbp11	WW domain bindi	Chr6: 136.813654	10.01	9.3	Chr7: 35.152978	0.49109	67	1.7E-05	0.19079	-0.031	0.9
10338006			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.512	12.1	Chr18: 24.442754	0.49088	67	1.7E-05	0	0	1
10412537	544998	115686	Gm16440	predicted gene 16	Chr14: 6.898550	7.027	10.2	Chr4: 16.446894	-0.4906	67	1.8E-05	0	0	1
10569168	68267	69383	Slc25a22	solute carrier fami	Chr7: 141.429749	8.31	12.2	Chr13: 95.700999	0.49052	67	1.8E-05	0.2588	-0.304	0.1
10426689	72572	11314	Spats2	spermatogenesis	Chr15: 99.126578	8.293	11.9	Chr5: 133.911105	0.4901	67	1.8E-05	0.13787	-0.146	0.5
10428002	67434	12362	Ankrd33b	ankyrin repeat dor	Chr15: 31.323850	8.474	7.2	Chr18: 24.442754	-0.4898	67	1.8E-05	0	0	1
10339388	11972	3444	Atp6v0d1	ATPase, H+ trans	Chr8: 108.063258	10.23	11.4	Chr13: 92.688454	0.4893	67	1.9E-05	0.24984	0.1761	0.4
10470909			Affy_104709	Affymetrix Mouse	Chr2: 30.065105	8.767	10.4	ChrX: 9.334336	-0.4892	67	1.9E-05	0	0	1
10412517	622931		Gm10021	predicted gene 10	Chr14: 5.075802	8.022	11.7	Chr4: 16.446894	-0.4892	67	1.9E-05	0	0	1
10338453			Affy_103384	Affymetrix Mouse	ChrUn: 1.000000	7.195	9.7	Chr3: 129.509954	-0.4892	67	1.9E-05	0	0	1
10364518	19205	49188	Ptbp1	polypyrimidine tra	Chr10: 79.854605	11.35	10.9	Chr7: 36.716982	0.48914	67	1.9E-05	0.30735	0.3463	0.1
10340761			Affy_103407	Affymetrix Mouse	ChrUn: 1.000000	9.879	11.7	Chr14: 72.300282	-0.489	67	1.9E-05	0	0	1
10572596	68251	8574	Babam1	BRISC and BRCA	Chr8: 71.396868	11.27	9.2	Chr14: 72.300282	0.48842	67	1.9E-05	0	0	1
10344050			Affy_103440	Affymetrix Mouse	ChrUn: 1.000000	10.49	7.5	Chr18: 25.697926	-0.4881	67	2E-05	0	0	1
10375735	59013	31318	Hnrnph1	heterogeneous nu	Chr11: 50.377751	12.03	12.5	Chr14: 72.300282	-0.4881	67	2E-05	0.28059	-0.642	0
10341694			Affy_103416	Affymetrix Mouse	ChrUn: 1.000000	8.239	10.7	Chr11: 87.748713	-0.488	67	2E-05	0	0	1
10370070	13404	5135	Dmc1	DMC1 dosage sup	Chr15: 75.746095	11.05	10.3	Chr13: 92.688454	-0.4879	67	2E-05	0.2569	0.3055	0.1
10345482	94220	75662	Cnnm4	cyclin M4	Chr1: 36.471620	8.572	14.1	Chr18: 84.126263	0.48778	67	2E-05	0.23701	0.5725	0
10605711	236900	55897	Pdk3	pyruvate dehydrog	ChrX: 93.764607	9.866	8.3	Chr5: 144.449880	0.48777	67	2E-05	0	0.3453	0.1
10339404			Affy_103394	Affymetrix Mouse	ChrUn: 1.000000	9.894	9.3	Chr13: 91.471415	-0.4877	67	2E-05	0	0	1
10608429	380994	86036	LOC380994		ChrY: 21.505410	5.083	15.8	ChrX: 9.334336	0.48762	67	2E-05	0	0.3428	0.1
10499777	229543	11309	Ints3	integrator complex	Chr3: 90.391384	9.96	11	Chr7: 39.894396	0.48749	67	2E-05	0	0.1296	0.5
10353729	114671	77996	4930444G20	RIKEN cDNA 493	Chr1: 32.519563	7.343	9.6	Chr8: 117.545014	-0.4873	67	2E-05	0	0.0854	0.7
10452188	64144	4339	Mllt1	myeloid/lymphoid	Chr17: 56.892611	9.18	18	Chr17: 5.991544	0.48703	67	2.1E-05	0.25497	-0.076	0.7
10602221	72759	11295	Tmem135	transmembrane pr	Chr7: 133.540650	8.682	8.1	Chr13: 51.479103	-0.487	67	2.1E-05	0.2761	0.267	0.2
10342163			Affy_103421	Affymetrix Mouse	ChrUn: 1.000000	9.109	10.6	Chr6: 123.700298	-0.4869	67	2.1E-05	0	0	1
10531488	12453	4979	Ccni	cyclin I	Chr5: 93.181493	11.34	11.1	Chr18: 82.377768	0.4867	67	2.1E-05	0.23085	0.3142	0.1
10598105	1E+08	115504	Olfr239	olfactory receptor	Chr17: 33.199062	8.879	21	Chr7: 36.716982	-0.4866	67	2.1E-05	0	0.4386	0
10575745	234776	35321	Atmin	ATM interactor	Chr8: 116.943408	9.066	12.1	Chr19: 23.165770	0.48663	67	2.1E-05	0.27018	-0.088	0.7
10540472	20893	2722	Bhlhe40	basic helix-loop-h	Chr6: 108.660629	8.535	16.1	Chr1: 145.201671	0.48643	67	2.1E-05	0.36985	-0.04	0.8
10341238			Affy_103412	Affymetrix Mouse	ChrUn: 1.000000	9.498	12.6	Chr6: 3.266392	-0.4863	67	2.1E-05	0	0	1
10385495	13445	3411	Cdk2ap1	CDK2 (cyclin-dep	Chr5: 48.247606	11.16	9.1	Chr9: 41.231561	0.48618	67	2.2E-05	0.35482	-0.083	0.7
10605368			Affy_106053	Affymetrix Mouse	ChrX: 74.997577	4.376	9.1	Chr18: 84.516845	0.48611	67	2.2E-05	0	0	1
10339415			LINE_Affy_1	LINE repeat seque	ChrUn: 1.000000	12.69	11.3	Chr17: 12.162949	-0.486	67	2.2E-05	0	0	1
10442954	12005	2614	Axin1	axin 1	Chr17: 26.138734	9.452	12.5	Chr8: 95.747331	0.48604	67	2.2E-05	0.36445	0.3103	0.1
10382912	53860	129851	Sept9	septin 9	Chr11: 117.199661	10.4	11.8	Chr1: 147.054880	0.48601	67	2.2E-05	0.30302	0.1005	0.6
10395250			Affy_103952	Affymetrix Mouse	Chr12: 31.858458	8.204	10	Chr5: 146.682242	-0.4857	67	2.2E-05	0	0	1
10399841	104836	11734	Cbll1	Casitas B-lineage	Chr12: 31.486896	8.729	9.2	Chr7: 36.716982	0.48557	67	2.2E-05	0.27159	0.1857	0.4
10376685	268420	9818	Alkbh5	alkB, alkylation re	Chr11: 60.537978	11.04	8.3	Chr4: 19.581204	0.48557	67	2.2E-05	0.24897	0.0925	0.7
10434384	11773	3000	Ap2m1	adaptor protein co	Chr16: 20.535504	11.5	9.1	Chr14: 89.511630	0.48556	67	2.2E-05	0.23898	0.05	0.8
10371230	14672	20474	Gna11	guanine nucleotid	Chr10: 81.528732	9.28	10.8	Chr13: 95.700999	0.48554	67	2.2E-05	0.32885	0.4819	0
10499937			Affy_104999	Affymetrix Mouse	Chr3: 92.789050	8.523	10.8	Chr18: 82.377768	-0.4855	67	2.2E-05	0	0	1
10444420	55979	55973	Agpat1	1-acylglycerol-3-p	Chr17: 34.605875	9.878	9.6	Chr14: 72.300282	0.48523	67	2.3E-05	0.30667	0.2742	0.2
10460529	225870	3170	Rin1	Ras and Rab inter	Chr19: 5.050797	7.978	9.4	Chr13: 98.866916	-0.4851	67	2.3E-05	0.25531	0.159	0.4
10432122	78541	32572	Asb8	ankyrin repeat and	Chr15: 98.134637	9.808	10.4	ChrX: 10.699902	0.48475	67	2.3E-05	0.20497	-0.033	0.9
10569265	54473	10375	Tollip	toll interacting pro	Chr7: 141.874813	10.16	10.7	ChrX: 9.334336	0.48468	67	2.3E-05	0.36277	0.3113	0.1
10417461	320333	115686	D830030K20	RIKEN cDNA D83	Chr14: 7.293707	7.116	10.2	Chr4: 16.446894	-0.4846	67	2.3E-05	0	-0.415	0

10340295	11793	3566	Atg5	autophagy related	Chr10: 44.055115	10.66	9.6	Chr11: 83.708433	-0.4845	67	2.3E-05	0.29968	0.3004	0.1
10562847	22260	21397	Nr1h2	nuclear receptor s	Chr7: 44.549616	10.3	11.8	Chr14: 72.300282	0.48432	67	2.3E-05	0.37449	0.4028	0
10508490	20384	87833	Srsf5	serine/arginine-ric	Chr4: 129.898949	11.83	10.1	Chr15: 31.731351	-0.4842	67	2.4E-05	0.28948	0	1
10517443	27224	37746	Tceb3	transcription elong	Chr4: 136.003370	9.908	13.5	Chr7: 27.067846	0.48399	67	2.4E-05	0.26697	-0.3	0.1
10412491			Affy_104124	predicted gene	Chr14: 4.421549	6.89	9.9	Chr4: 155.894026	-0.484	67	2.4E-05	0	0	1
10596568	109095		Rbm15b	RNA binding motif	Chr9: 106.881511	9.871	9	Chr11: 83.708433	0.48349	67	2.4E-05	0.20285	-0.038	0.9
10338887	99152	8359	Anapc2	anaphase promoti	Chr2: 25.135253	9.605	8.4	Chr10: 53.743148	-0.4832	67	2.5E-05	0.23929	-0.326	0.1
10345706	52846	9711	C2orf29	human chromosor	Chr1: 39.535802	9.761	13.3	Chr7: 36.716982	0.48308	67	2.5E-05	0	0	1
10561461	233033	35268	Samd4b	sterile alpha motif	Chr7: 28.400262	8.712	17.2	Chr8: 94.374289	0.48283	67	2.5E-05	0	0.5038	0
10492045	229279	62463	Hnrnpa3	heterogeneous nu	Chr3: 54.481423	12.85	14.9	Chr13: 89.422557	-0.4828	67	2.5E-05	0.2637	0	1
10416850	64929	2850	Scel	sciellin	Chr14: 103.513341	6.411	12.6	Chr12: 83.777006	0.48264	67	2.5E-05	0.24968	0.1764	0.4
10591726	26940	8080	Ecsit	ECSIT homolog (I	Chr9: 22.071984	9.111	11.5	Chr17: 7.713373	0.48262	67	2.5E-05	0.22035	0.094	0.6
10546659			Affy_105466	Affymetrix Mouse	Chr6: 97.572076	8.71	10.8	ChrX: 9.334336	-0.4826	67	2.5E-05	0	0	1
10355176	70861		4921521F21	RIKEN cDNA 492	Chr1: 65.012689	6.409	18.5	Chr5: 133.062783	0.48204	67	2.6E-05	0	-0.126	0.5
10410654			Affy_104106	Affymetrix Mouse	Chr13: 74.630700	9.848	10.3	Chr14: 70.695506	-0.4818	67	2.6E-05	0	0	1
10572741	404315	17287	Olfr372	olfactory receptor	Chr8: 72.057682	7.459	7.7	Chr8: 57.667032	-0.4816	67	2.7E-05	0	0.4545	0
10510872			Affy_105108	Affymetrix Mouse	Chr4: 154.196507	8.571	11.9	Chr18: 82.377768	-0.4815	67	2.7E-05	0	0	1
10603478	209815	16173	Tbc1d25	TBC1 domain fam	ChrX: 8.154479	8.614	8.6	Chr7: 144.433458	0.48133	67	2.7E-05	0.10354	0.4214	0
10564839	11778	100592	Ap3s2	adaptor-related pr	Chr7: 79.875325	8.536	9.3	Chr3: 129.645016	0.48129	67	2.7E-05	0.14926	-0.014	0.9
10417269			Affy_104172	Affymetrix Mouse	ChrUn: 1.000000	7.275	8.3	Chr19: 10.043999	-0.4812	67	2.7E-05	0	0	1
10338021			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.745	12.8	Chr7: 71.410581	0.48122	67	2.7E-05	0	0	1
10527878	171266	104269	Gm4741	predicted gene 47	Chr5: 3.000138	5.928	13.5	Chr3: 146.631087	-0.4811	67	2.7E-05	0	0	1
10559172	77215		Krtap5-3	keratin associated	Chr7: 142.201428	9.063	10.3	Chr4: 142.912003	-0.4809	67	2.8E-05	0	0.0984	0.6
10338057			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.241	12.1	Chr18: 24.676883	0.48063	67	2.8E-05	0	0	1
10341439			Affy_103414	Affymetrix Mouse	ChrUn: 1.000000	8.909	13.1	Chr2: 32.614941	-0.4803	67	2.8E-05	0	0	1
10371284			Affy_103712	predicted gene	Chr10: 82.283195	4.309	8.7	Chr18: 24.442754	0.48028	67	2.8E-05	0	0	1
10418171	71918	66746	Zcchc24	zinc finger, CCHC	Chr14: 25.711649	8.62	10.4	Chr3: 148.107130	0.4801	67	2.9E-05	0	0	1
10338022			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.49	11.9	Chr18: 24.676883	0.48008	67	2.9E-05	0	0	1
10414736			Affy_104147	Affymetrix Mouse	Chr14: 52.778510	9.199	8.5	ChrX: 9.334336	-0.4801	67	2.9E-05	0	0	1
10338043			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	3.951	9.5	ChrX: 9.334336	0.47946	67	2.9E-05	0	0	1
10468485			Affy_104684	Affymetrix Mouse	Chr19: 51.239690	4.128	9.8	Chr14: 54.368093	0.47936	67	3E-05	0	0	1
10399419	73710	49734	Tubb2b	tubulin, beta 2B	Chr12: 11.881327	7.599	10.6	Chr10: 121.92773	0.4793	67	3E-05	0.25309	-0.067	0.7
10371041	52551	31122	Sgta	small glutamine-ri	Chr10: 81.044073	9.594	15.2	Chr14: 72.300282	0.47928	67	3E-05	0.13696	-0.249	0.2
10338373			Affy_103383	Affymetrix Mouse	ChrUn: 1.000000	8.987	8	Chr17: 5.991544	-0.4792	67	3E-05	0	0	1
10533633	66593	10532	Diablo	diablo (second mi	Chr5: 123.511330	8.774	14.1	Chr9: 94.904747	0.47859	67	3.1E-05	0.30872	-0.218	0.3
10338482			LTR_Affy_10	Long terminal repe	ChrUn: 1.000000	10.64	9.6	Chr5: 110.582881	-0.4786	67	3.1E-05	0	0	1
10577343	360212	86864	Defb38	defensin beta 38	Chr8: 19.023407	4.97	9.2	Chr3: 70.474401	0.47835	67	3.1E-05	0.25427	-0.11	0.6
10390907	435273	87835	Krtap1-3	keratin associated	Chr11: 99.590798	8.281	9.1	ChrX: 9.334336	-0.4781	67	3.1E-05	0	0	1
10352267	72568	35252	Lin9	lin-9 homolog (C.	Chr1: 180.640964	8.247	7.7	Chr17: 6.039016	0.478	67	3.1E-05	0.20876	0.4859	0
10559708	23877	22663	Fiz1	Flt3 interacting zir	Chr7: 5.007059	9.151	9.4	Chr17: 10.720847	0.47785	67	3.2E-05	0.22979	0.2313	0.3
10340259			Affy_103402	Affymetrix Mouse	ChrUn: 1.000000	8.878	10.8	Chr18: 24.442754	-0.4777	67	3.2E-05	0	0	1
10369844	83675	12856	Bicc1	bicaudal C homol	Chr10: 70.925086	8.706	14.1	Chr17: 27.451463	0.47731	67	3.2E-05	0.29612	0.055	0.8
10339241			Affy_103392	Affymetrix Mouse	ChrUn: 1.000000	9.526	9	ChrX: 9.334336	0.47725	67	3.2E-05	0	0	1
10367413	74330	12553	Dnajc14	DnaJ (Hsp40) hon	Chr10: 128.805580	10.35	11.6	ChrX: 9.334336	0.47713	67	3.3E-05	0	0.464	0
10536949	320609	66198	Fam40b	family with sequer	Chr6: 29.917013	7.623	8.2	Chr8: 24.488797	0.4771	67	3.3E-05	0	0	1
10497590	14013	21086	Mecom	MDS1 and EVI1 c	Chr3: 29.951307	7.146	11	Chr7: 36.716982	0.47709	67	3.3E-05	0.3704	0	1
10438109	22195	43226	Ube2l3	ubiquitin-conjugat	Chr16: 17.152013	10.84	10.9	Chr11: 83.708433	0.4768	67	3.3E-05	0.25469	-0.071	0.7
10419726			Affy_104197	Affymetrix Mouse	Chr14: 52.748280	8.522	9.6	Chr8: 95.747331	-0.4767	67	3.3E-05	0	0	1
10394850			Affy_103948	Affymetrix Mouse	Chr12: 20.560065	10.65	10.2	Chr7: 36.716982	-0.4766	67	3.4E-05	0	0	1
10412495			Affy_104124	Affymetrix Mouse	ChrUn: 1.000000	7.051	9.9	Chr4: 16.446894	-0.4765	67	3.4E-05	0	0	1
10603547	628040		Gm6829	predicted pseudog	ChrX: 9.327708	7.878	22.6	ChrX: 9.334336	0.47628	67	3.4E-05	0	0	1
10494445	280411		Lix1l	Lix1-like	Chr3: 96.601149	9.13	10	Chr18: 28.108368	0.47614	67	3.4E-05	0	-0.377	0.1
10430804	28075	15891	Pppde2	PPPDE peptidase	Chr15: 81.992523	9.826	9.7	Chr7: 4.844959	0.47567	67	3.5E-05	0.07642	0	1
10479063	19334	10782	Rab22a	RAB22A, member	Chr2: 173.659858	9.93	12.7	Chr13: 90.420702	0.47566	67	3.5E-05	0.2083	0.21	0.3
10340280			Affy_103402	Affymetrix Mouse	ChrUn: 1.000000	8.811	7.3	Chr4: 22.236339	-0.4754	67	3.5E-05	0	0	1
10599826	14071	106	F9	coagulation factor	ChrX: 59.999464	5.787	10.1	Chr13: 46.973170	0.47525	67	3.6E-05	0.31954	-0.126	0.5
10592449	235256	28452	Olfr149	olfactory receptor	Chr9: 39.701832	7.345	16.4	Chr13: 97.781219	-0.4752	67	3.6E-05	0	-0.283	0.2
10505109	230234	56788	BC026590	cDNA sequence B	Chr4: 56.802350	8.744	10.1	Chr9: 99.822930	0.47477	67	3.6E-05	0.16661	-0.072	0.7
10438626	104156	3276	Etv5	ets variant gene 5	Chr16: 22.381313	8.27	10.8	Chr13: 91.471415	0.47458	67	3.7E-05	0.35498	-0.236	0.2
10338052			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.786	12.5	Chr7: 71.410581	0.47457	67	3.7E-05	0	0	1
10338005			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	4.129	10.1	Chr18: 24.676883	0.47404	67	3.8E-05	0	0	1
10396926	20384	87833	Srsf5	serine/arginine-ric	Chr12: 80.945532	11.84	9.7	Chr15: 31.731351	-0.4739	67	3.8E-05	0.28948	0	1
10378434	258181		Olfr406-ps	olfactory receptor	Chr11: 74.269391	6.444	7.5	Chr1: 47.189877	-0.4738	67	3.8E-05	0	0	1
10495613	75769	25279	Lppr5	lipid phosphate ph	Chr3: 117.575360	7.351	10	Chr8: 16.725153	0.47374	67	3.8E-05	0.13874	0	1
10343235			Affy_103432	Affymetrix Mouse	ChrUn: 1.000000	8.773	8.7	Chr14: 70.695506	-0.4736	67	3.8E-05	0	0	1
10485183	228368	41258	Slc35c1	solute carrier fami	Chr2: 92.452755	9.122	11.1	Chr7: 36.716982	0.47364	67	3.8E-05	0.26459	0.5551	0
10498401			Affy_104984	Affymetrix Mouse	Chr3: 61.328754	5.199	13.6	ChrX: 9.334336	0.4734	67	3.9E-05	0	0	1
10450525	672682	104443	Gm9573	predicted gene 95	Chr17: 35.618130	7.821	10.6	Chr13: 93.093865	-0.4733	67	3.9E-05	0.20497	0	1
10413752	104416	3421	Bap1	Brca1 associated	Chr14: 31.251474	9.791	11	Chr2: 65.805814	0.47327	67	3.9E-05	0.21966	0.1108	0.6
10546807			Affy_105468	Affymetrix Mouse	Chr6: 112.033569	7.347	10	Chr12: 30.182102	-0.4731	67	3.9E-05	0	0	1
10360834	15284	7363	Hlx	H2.0-like homeob	Chr1: 184.727143	8.877	9.9	Chr9: 100.022005	0.473	67	3.9E-05	0.33954	0.1134	0.6
10557439	75565	12607	Ccdc101	coiled-coil domain	Chr7: 126.649371	9.3	9.9	Chr13: 92.688454	0.47296	67	3.9E-05	0.13679	-0.038	0.9
10452000	224897	16385	Dpp9	dipeptidylpeptidas	Chr17: 56.186682	9.374	12.9	Chr2: 69.333658	0.47291	67	3.9E-05	0.35484	0.2213	0.3
10394082	238023	68120	Hexdc	hexosaminidase (g	Chr11: 121.177593	8.489	13.6	Chr4: 29.274068	0.47283	67	4E-05	0.23011	0.106	0.6
10552210	245886	12956	Ankrd27	ankyrin repeat dor	Chr7: 35.586250	9.53	9.7	Chr7: 36.716982	0.47261	67	4E-05	0.20944	-0.364	0.1
10484205	545428		Ccdc141	coiled-coil domain	Chr2: 77.029236	5.194	11.6	Chr9: 70.268526	0.47236	67	4E-05	0.15129	0	1
10542221			mir-680-1	Affymetrix Mouse	Chr6: 129.691535	7.716	7.4	Chr14: 89.511630	-0.4722	67	4.1E-05	0	0	1
10599972	229279	62463	Hnrnpa3	heterogeneous nu	ChrX: 71.197371	12.81	11.8	Chr13: 81.107254	-0.4719	67	4.1E-05	0.2637	0	1
10339809			Affy_103398	Affymetrix Mouse	ChrUn: 1.000000	10.5	14.8	Chr13: 92.688454	-0.4719	67	4.1E-05	0	0	1
10427663			Affy_104276	Affymetrix Mouse	Chr15: 9.630487	5.185	12.8	Chr11: 24.905498	0.47189	67	4.1E-05	0	0	1
10417264	544988		544988	RIKEN cDNA B93	Chr14: 3.068967	7.105	11.6	Chr4: 16.446894	-0.4718	67	4.1E-05	0	0	1
10379891	53892	31185	Ppm1d	protein phosphata	Chr11: 85.311254	10.07	24.8	Chr11: 83.708433	0.47175	67	4.2E-05	0.38264	-0.449	0
10375563	258027	86692	Olfr1385	olfactory receptor	Chr11: 49.470153	6.883	11.7	Chr8: 95.747331	-0.4716	67	4.2E-05	0	0.3515	0.1
10493889	73719		Lce1c	late cornified enve	Chr3: 92.679247	6.877	10.9	ChrX: 9.334336	-0.4714	67	4.2E-05	0	0.2216	0.3
10364251	80294	12724	Pofut2	protein O-fucosylt	Chr10: 77.259300	8.945	7.1	ChrX: 21.061933	0.47118	67	4.3E-05	0.11906	-0.485	0
10526687	69871	12337	Ppp1r35	protein phosphata	Chr5: 137.778918	9.545	8.8	Chr14: 67.811657	0.4705	67	4.4E-05	0	0	1
10447361	225049	12515	Ttc7	tetratricopeptide r	Chr17: 87.282886	10.57	12.4	Chr8: 94.374289	0.47039	67	4.4E-05	0.39074	0.6248	0
10514706	242574		C130073F10	RIKEN cDNA C13	Chr4: 102.047354	8.13	10	Chr4: 28.322409	0.47021	67	4.5E-05	0	0.156	0.4

10558265	76429	41469	Lhpp	phospholysine ph	Chr7: 132.610643	9.026	11.3	Chr14: 70.695506	0.4702	67	4.5E-05	0	0	1
10344616			Affy_103446	Affymetrix Mouse	Chr1: 3.102016	4.193	11	Chr11: 27.337521	0.46985	67	4.5E-05	0	0	1
10460787	329015	86985	Atg2a	ATG2 autophagy	Chr19: 6.241668	9.218	13.2	Chr7: 36.760233	0.46958	67	4.6E-05	0.17951	0.3019	0.1
10460833	13660	81678	Ehd1	EH-domain contai	Chr19: 6.276734	10.51	15.7	Chr2: 36.097874	0.46958	67	4.6E-05	0.28038	0.395	0
10341825			Affy_103418	Affymetrix Mouse	ChrUn: 1.000000	8.75	11.8	Chr14: 72.300282	-0.4696	67	4.6E-05	0	0	1
10427603	382969		Gm5210	predicted gene 52	Chr15: 8.917798	6.258	13.6	Chr4: 58.363486	0.46948	67	4.6E-05	0	0	1
10482117	258952	74160	Olfr341	olfactory receptor	Chr2: 36.479187	6.078	13.5	Chr3: 144.666385	-0.4693	67	4.6E-05	0	-0.025	0.9
10565873	72590	6099	Ppme1	protein phosphata	Chr7: 100.326737	9.457	13.3	Chr7: 89.939211	0.46922	67	4.6E-05	0.22289	-0.256	0.2
10383731	29856	8482	Smtn	smoothelin	Chr11: 3.517523	9.04	10.6	Chr7: 24.937915	0.46916	67	4.7E-05	0.29183	0.1781	0.4
10339680			Affy_103396	Affymetrix Mouse	ChrUn: 1.000000	10.77	12.5	Chr7: 45.140566	-0.469	67	4.7E-05	0	0	1
10425357	239555	10374	Smcr7l	Smith-Magenis sy	Chr15: 80.234120	9.13	14.7	Chr7: 4.844959	0.46887	67	4.7E-05	0.16489	-0.39	0
10391061	16666	21145	Krt16	keratin 16	Chr11: 100.246091	6.593	18.5	ChrX: 9.334336	-0.4687	67	4.8E-05	0.31825	0.1269	0.5
10515819			Affy_105158	predicted pseudog	Chr4: 118.672588	6.932	12.7	ChrX: 131.112816	-0.4685	67	4.8E-05	0	0	1
10466104	108673	41531	Ccdc86	coiled-coil domain	Chr19: 10.941481	9.058	11	Chr17: 7.713373	0.4684	67	4.8E-05	0.23479	-0.003	1
10422396	223255	20793	Stk24	serine/threonine k	Chr14: 121.286341	11.11	12.4	Chr11: 83.708433	0.46811	67	4.9E-05	0.18722	0.2871	0.2
10386628	24083	11907	Gm16515	predicted gene, G	Chr11: 60.902246	8.82	8.4	Chr19: 57.734251	0.46791	67	4.9E-05	0.22772	0	1
10484440	228136	9147	Zdhhc5	zinc finger, DHHC	Chr2: 84.687920	10.95	15	Chr12: 96.105011	0.46779	67	5E-05	0.26516	0.238	0.2
10560644	19294	86092	Pvrl2	poliovirus recepto	Chr7: 19.716661	8.062	8.7	Chr1: 171.041085	0.46767	67	5E-05	0.26282	0.3672	0.1
10447065	381110	71930	Fam82a1	family with sequer	Chr17: 79.614900	7.502	10.5	Chr9: 94.904747	0.4674	67	5E-05	0.09654	0	1
10598403	54637	21412	Praf2	PRA1 domain fam	ChrX: 7.728546	8.946	12.5	Chr1: 155.701160	0.46736	67	5E-05	0.19074	-0.494	0
10578277			Affy_105782	Affymetrix Mouse	Chr8: 39.720242	5.361	15.6	Chr4: 28.322409	0.46713	67	5.1E-05	0	0	1
10542892	66830	12042	Nacc1	nucleus accumber	Chr6: 149.361686	9.71	11.7	Chr7: 36.620249	0.46678	67	5.2E-05	0.3381	0	1
10385699	66089	100777	Rmnd5b	required for meioti	Chr11: 51.623672	10.18	15.9	Chr13: 92.688454	0.4666	67	5.2E-05	0	-0.198	0.3
10507931	735277		Mir697	microRNA 697	Chr4: 124.731694	7.816	10.9	Chr14: 72.300282	-0.4666	67	5.2E-05	0	0	1
10411082	21828	20691	Thbs4	thrombospondin 4	Chr13: 92.751586	8.048	15.8	Chr5: 133.911105	0.46652	67	5.2E-05	0.36136	0.3896	0
10343172			Affy_103431	Affymetrix Mouse	ChrUn: 1.000000	10.01	16.8	Chr18: 24.442754	-0.4662	67	5.3E-05	0	0	1
10373873	67465	4294	Sf3a1	splicing factor 3a,	Chr11: 4.160368	9.951	13.4	Chr7: 36.716982	0.46614	67	5.3E-05	0	0.1745	0.4
10344134			Affy_103441	Affymetrix Mouse	ChrUn: 1.000000	12.43	8.2	Chr13: 56.093344	-0.4659	67	5.4E-05	0	0	1
10414805	639655	86594	Trav13d-4		Chr14: 53.072763	9.183	8	Chr17: 10.720847	-0.4652	67	5.5E-05	0	0	1
10341895			Affy_103418	Affymetrix Mouse	ChrUn: 1.000000	7.683	7.9	Chr3: 141.724344	-0.4651	67	5.6E-05	0	0	1
10419803	74359	11078	4931414P19	RIKEN cDNA 493	Chr14: 54.583663	7.672	10.3	Chr18: 24.676883	0.46511	67	5.6E-05	0	0.2857	0.2
10497968	1E+08		Gm16508	predicted gene 16	Chr3: 41.286067	7.823	7.7	Chr18: 82.377768	-0.465	67	5.6E-05	0	0	1
10340355			Affy_103403	Affymetrix Mouse	ChrUn: 1.000000	7.498	8.6	Chr6: 24.222458	-0.4649	67	5.6E-05	0	0	1
10470948	30791	40906	Slc39a1	solute carrier fami	Chr2: 30.159395	9.03	12.4	ChrX: 9.334336	0.46493	67	5.6E-05	0.36943	0.1296	0.5
10550237	108124	2839	Napa	N-ethylmaleimide	Chr7: 16.098612	10.37	12.4	Chr7: 14.544160	0.46476	67	5.7E-05	0.28225	-0.082	0.7
10340523			Affy_103405	Affymetrix Mouse	ChrUn: 1.000000	12.2	15.1	Chr18: 24.676883	-0.4645	67	5.7E-05	0	0	1
10592237	13663	3588	Ei24	etoposide induced	Chr9: 36.779153	9.992	8.1	ChrX: 9.334336	0.4645	67	5.7E-05	0.31134	0.1571	0.4
10402766	11651	3785	Akt1	thymoma viral pro	Chr12: 112.653821	10.77	7.9	Chr1: 147.054880	0.46449	67	5.7E-05	0.32488	-0.26	0.2
10340487			Affy_103404	Affymetrix Mouse	ChrUn: 1.000000	7.792	12.7	Chr13: 51.479103	-0.4643	67	5.8E-05	0	0	1
10466925	56248	21744	Ak3	adenylate kinase	Chr19: 29.020832	10.33	12.3	Chr1: 160.285087	0.46415	67	5.8E-05	0.20254	0.429	0
10464659	19367	32118	Rad9	RAD9 homolog (S	Chr19: 4.195196	9.686	18.1	Chr13: 95.700999	0.46357	67	5.9E-05	0.31992	-0.045	0.8
10419354	67443	69359	Map1l3cb	microtubule-assoc	Chr14: 48.079375	10.8	10.2	Chr5: 64.699027	0.46357	67	6E-05	0.29967	0	1
10557992	29810	3162	Bag3	BCL2-associated	Chr7: 128.523616	8.352	11.9	ChrX: 21.061933	0.46351	67	6E-05	0.3796	-0.05	0.8
10475866	12125	7643	Bcl2l11	BCL2-like 11 (apo	Chr2: 128.126038	9.662	15.4	Chr4: 9.653169	0.46345	67	6E-05	0.31019	-0.115	0.6
10339160			Affy_103391	Affymetrix Mouse	ChrUn: 1.000000	7.975	11.5	Chr4: 46.914512	-0.4634	67	6E-05	0	0	1
10565499	384719		Gm5341	predicted pseudog	Chr7: 90.107519	7.87	16.2	Chr4: 28.322409	0.4632	67	6E-05	0	0	1
10553895			Mir211	microRNA 211 (in	Chr7: 64.205806	8.032	12.4	Chr18: 24.676883	-0.4631	67	6.1E-05	0	0	1
10377704	13543	20927	Dvl2	dishevelled 2, dsh	Chr11: 70.000617	8.822	8.7	Chr17: 9.373070	0.46308	67	6.1E-05	0.27306	-0.085	0.7
10533807	13445	3411	Cdk2ap1	CDK2 (cyclin-dep	Chr5: 124.345441	11.04	8.7	ChrX: 37.500000	0.463	67	6.1E-05	0.35482	-0.083	0.7
10575129	116733	69132	Vps4a	vacuolar protein s	Chr8: 107.031326	9.401	11	Chr16: 97.368149	0.46297	67	6.1E-05	0.21304	-0.014	0.9
10608464	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 3.828339	4.8	12.5	ChrX: 9.334336	0.46268	67	6.2E-05	0.21707	-0.014	0.9
10434003	12929	38021	Crkl	v-crk sarcoma viru	Chr16: 17.451987	10.62	9.2	Chr19: 32.357503	0.46246	67	6.2E-05	0.2808	-0.569	0
10381122	14230	7718	Fkbp10	FK506 binding pro	Chr11: 100.415557	8.692	11.1	Chr1: 145.376780	0.46239	67	6.3E-05	0.28134	-0.034	0.9
10528929	97212	152	Hadha	hydroxyacyl-Coen	Chr5: 30.118304	11	14	Chr11: 83.708433	0.46236	67	6.3E-05	0.26194	-0.047	0.8
10564960	18550	1930	Furin	furin (paired basic	Chr7: 80.389194	9.221	11.1	Chr7: 36.716982	0.4623	67	6.3E-05	0.28827	0.3956	0
10427323	56447	9366	Copz1	coatomer protein (	Chr15: 103.272899	11.48	9.6	Chr14: 49.407504	0.46225	67	6.3E-05	0.13726	0.4399	0
10393836	192662	908	Arhgdia	Rho GDP dissocia	Chr11: 120.577235	11.85	10.2	Chr11: 35.687788	0.4621	67	6.3E-05	0.35322	0	1
10506213	381534		Ube2u	ubiquitin-conjugat	Chr4: 100.478867	5.265	22.7	Chr13: 51.479103	0.4618	67	6.4E-05	0	0.1099	0.6
10583694	69773	34702	1810026J23	RIKEN cDNA 181	Chr9: 21.592722	8.756	16.8	Chr14: 49.089284	0.46176	67	6.4E-05	0	-0.088	0.7
10529410	68294	871	Mfsd10	major facilitator su	Chr5: 34.633646	9.776	10.5	Chr12: 99.576264	0.46174	67	6.4E-05	0.15591	0.3174	0.1
10408870	67046	9538	Tbc1d7	TBC1 domain fam	Chr13: 43.151744	7.657	11.4	Chr13: 92.688454	0.46162	67	6.5E-05	0.11186	-0.409	0
10375565	258027	86692	Olfr1385	olfactory receptor	Chr11: 49.494535	6.457	10	Chr8: 95.747331	-0.4613	67	6.5E-05	0	0.3515	0.1
10416290	72549	11888	Reep4	receptor accessor	Chr14: 70.545354	9.941	15.4	Chr19: 7.273188	0.46132	67	6.6E-05	0	0.341	0.1
10343357			Affy_103433	Affymetrix Mouse	ChrUn: 1.000000	8.337	8.7	Chr5: 106.040417	-0.4613	67	6.6E-05	0	0	1
10417326	320333	115686	D830030K20	RIKEN cDNA D83	Chr14: 6.405833	7.148	9.5	Chr8: 95.747331	-0.4613	67	6.6E-05	0	-0.415	0
10507933	16330	69021	Inpp5b	inositol polyphosp	Chr4: 124.741872	9.539	12.9	Chr7: 36.620249	0.46126	67	6.6E-05	0.2921	0.3376	0.1
10557058	26939	14052	Polr3e	polymerase (RNA	Chr7: 120.947042	8.93	10	Chr9: 51.136728	-0.4612	67	6.6E-05	0.25735	0.3733	0.1
10393241	53413	41019	Exoc7	exocyst complex c	Chr11: 116.289105	9.013	11.2	Chr8: 7.885228	0.46095	67	6.7E-05	0.24663	-0.007	1
10580191	18032	1872	Nfix	nuclear factor I/X	Chr8: 84.708614	9.801	13.6	Chr11: 82.187018	0.4609	67	6.7E-05	0.36788	-0.056	0.8
10569308	50774		Krtap5-1	keratin associated	Chr7: 142.296377	8.807	8.6	Chr3: 65.670861	-0.4605	67	6.8E-05	0.23741	-0.389	0
10565596			Affy_105655	Affymetrix Mouse	Chr7: 96.919994	7.279	10	Chr5: 144.449880	-0.4604	67	6.8E-05	0	0	1
10589196	22273	2525	Uqcrc1	ubiquinol-cytochro	Chr9: 108.936648	11.66	9.8	Chr4: 28.322409	0.46029	67	6.9E-05	0.22173	0.2824	0.2
10406865	218506	41006	Mrps27	mitochondrial ribo	Chr13: 99.344786	8.373	11.9	Chr13: 92.688454	0.46025	67	6.9E-05	0	-0.101	0.6
10593937	110119	1825	Mpi	mannose phospha	Chr9: 57.544261	9.236	12.1	ChrX: 9.334336	0.46018	67	6.9E-05	0.31967	0.2488	0.2
10338013			Affy_103380	Affymetrix Mouse	ChrUn: 1.000000	3.975	12.3	Chr18: 24.676883	0.46014	67	6.9E-05	0	0	1
10467859	226139	5848	Cox15	COX15 homolog,	Chr19: 43.735123	9.331	12.8	ChrX: 10.699902	0.46003	67	6.9E-05	0.24136	0.2745	0.2
10476276	228607	17004	Mavs	mitochondrial anti	Chr2: 131.234067	10.06	10.3	Chr16: 74.899626	0.45989	67	7E-05	0.27067	0	1
10341233	11972	3444	Atp6v0d1	ATPase, H+ trans	Chr8: 108.049235	11.45	12.2	ChrX: 9.334336	0.45979	67	7E-05	0.24984	0.1761	0.4
10473809	20375	2346	Sfpi1	SFFV proviral inte	Chr2: 91.096797	10.17	11.8	Chr10: 53.743148	0.45976	67	7E-05	0.29742	4E-05	1
10557716	233900	8856	Rnf40	ring finger protein	Chr7: 127.588780	9.975	11.6	Chr17: 8.199407	0.45964	67	7E-05	0.2343	0.3665	0.1
10344364			Affy_103443	Affymetrix Mouse	ChrUn: 1.000000	10.24	9.8	ChrX: 131.112816	-0.4595	67	7.1E-05	0	0	1
10503370	229279	62463	Hnrnpa3	heterogeneous nu	Chr4: 12.232795	12.45	12.1	Chr13: 81.854957	-0.4593	67	7.2E-05	0.2637	0	1
10340859			Affy_103408	Affymetrix Mouse	ChrUn: 1.000000	8.565	10	Chr4: 47.699478	-0.4593	67	7.2E-05	0	0	1
10359801	98558	13143	Mael	maelstrom homolo	Chr1: 166.201372	5.46	14.2	Chr5: 142.116737	0.45905	67	7.2E-05	0.17035	0.2148	0.3
10512332	75026		4930466F19	RIKEN cDNA 493	Chr4: 42.083899	7.174	19.3	Chr4: 43.954168	-0.459	67	7.2E-05	0	0	1
10512354	75026		4930466F19	RIKEN cDNA 493	Chr4: 42.581229	7.174	19.3	Chr4: 43.954168	-0.459	67	7.2E-05	0	0	1
10342060			Affy_103420	Affymetrix Mouse	ChrUn: 1.000000	9.231	10.5	Chr13: 92.688454	-0.459	67	7.2E-05	0	0	1
10369932	71733	10481	Susd2	sushi domain cont	Chr10: 75.636379	9.144	8.3	Chr13: 93.093865	0.45873	67	7.3E-05	0	0.5313	0

10563323	18220	4507	Nucb1	nucleobindin 1	Chr7: 45.492876	10.35	10.4	Chr14: 107.22150	0.4587	67	7.3E-05	0.25879	0.3058	0.1
10471844	59126	49379	Nek6	NIMA (never in mi	Chr2: 38.511697	8.487	7.8	Chr19: 58.711363	0.45869	67	7.3E-05	0.27078	0.1489	0.5
10338411			Affy_103384	Affymetrix Mouse	ChrUn: 1.000000	11.65	8	Chr8: 117.545014	-0.4587	67	7.3E-05	0	0	1
10465683	19326	68691	Rab11b	RAB11B, member	Chr19: 7.398421	11.25	11.5	ChrX: 9.334336	0.45861	67	7.4E-05	0.28751	-0.154	0.5
10377372	71998	6343	Slc25a35	solute carrier fami	Chr11: 68.968131	8.31	11.8	Chr1: 145.201671	0.4585	67	7.4E-05	0	0.3271	0.1
10525185			Affy_105251	9 days embryo wh	Chr5: 121.205013	10.67	12.1	Chr7: 36.620249	-0.4585	67	7.4E-05	0	0	1
10391949	56494	37907	Gosr2	golgi SNAP recep	Chr11: 103.676849	10.07	8.1	Chr13: 91.471415	0.45843	67	7.4E-05	0.1482	0.0229	0.9
10342025			Affy_103420	Affymetrix Mouse	ChrUn: 1.000000	8.169	9.2	Chr8: 117.545014	-0.4584	67	7.4E-05	0	0	1
10549445			Affy_105494	Affymetrix Mouse	Chr6: 148.642525	7.946	9.7	Chr8: 14.481190	-0.4582	67	7.5E-05	0	0	1
10390909	75586		Krtap9-3	keratin associated	Chr11: 99.597644	8.448	12	ChrX: 9.334336	-0.458	67	7.5E-05	0	0	1
10373515	211389	394	Suox	sulfite oxidase	Chr10: 128.669894	8.482	10.5	Chr17: 12.315221	0.45802	67	7.5E-05	0.16321	-0.005	1
10470696	68975	3152	Med27	mediator complex	Chr2: 29.346819	9.424	14.6	Chr18: 24.676883	0.458	67	7.6E-05	0.25537	-0.225	0.3
10415092	75913		4930579G18	RIKEN cDNA 493	Chr14: 54.653831	8.029	13.5	Chr2: 67.092862	-0.458	67	7.6E-05	0	0	1
10450872	258508	74030	Olfr99	olfactory receptor	Chr17: 37.279500	6.058	11.5	Chr4: 82.523394	-0.4578	67	7.6E-05	0	0.3272	0.1
10375322	75727		4933415A04	RIKEN cDNA 493	Chr11: 43.587040	6.51	8.8	ChrX: 3.231738	-0.4577	67	7.6E-05	0	-0.251	0.2
10574492	21893		Tlm	T lymphoma onco	Chr8: 104.661999	7.16	10.2	Chr5: 137.010795	-0.4577	67	7.7E-05	0.09488	0.4237	0
10339661			Affy_103396	Affymetrix Mouse	ChrUn: 1.000000	9.266	9.1	Chr19: 7.273188	-0.4573	67	7.8E-05	0	0	1
10437263	73261	47480	C16orf90	human chromosor	Chr16: 3.895181	7.77	10	Chr7: 137.031765	-0.4573	67	7.8E-05	0	0	1
10447695			Affy_104476	Affymetrix Mouse	Chr17: 8.565938	6.843	10.8	Chr2: 36.097874	0.45725	67	7.8E-05	0	0	1
10474169			Affy_104741	Affymetrix Mouse	Chr2: 103.099155	7.135	12	Chr18: 46.275839	-0.457	67	7.9E-05	0	0	1
10500404			Affy_105004	Affymetrix Mouse	Chr3: 96.724265	9.259	8.3	Chr5: 144.449880	-0.4569	67	7.9E-05	0	0	1
10552843			mir-150	Affymetrix Mouse	Chr7: 45.121757	8.422	12.4	ChrX: 136.048006	-0.4569	67	7.9E-05	0	0	1
10396652	15512	68564	Hspa2	heat shock protein	Chr12: 76.404176	7.847	15.3	Chr17: 12.162949	0.45678	67	7.9E-05	0.28073	-0.107	0.6
10488430	1E+08		Gm10750	predicted gene 10	Chr2: 149.015928	8.304	18.3	ChrX: 136.048006	-0.4568	67	8E-05	0	0	1
10414932			Affy_104149	Affymetrix Mouse	Chr14: 53.469756	9.039	10.4	Chr13: 95.700999	-0.4564	67	8.1E-05	0	0	1
10437483	66049	11605	Rogdi	rogdi homolog (Dr	Chr16: 5.008729	9.87	11	Chr13: 89.422557	0.45624	67	8.1E-05	0.20546	-0.233	0.3
10543725	83922	10284	Tsga14	testis specific gen	Chr6: 30.653457	8.205	8.6	Chr16: 88.032782	0.45595	67	8.2E-05	0.14024	-0.27	0.2
10475767	69470	9877	Tmem127	transmembrane pr	Chr2: 127.247975	10.35	10	Chr2: 121.587032	0.45553	67	8.4E-05	0.25366	0.7295	0
10465226	78891	6947	Scyl1	SCY1-like 1 (S. ce	Chr19: 5.758427	9.949	9.2	ChrX: 21.061933	0.45534	67	8.4E-05	0.25732	0.213	0.3
10547655			Affy_105476	Affymetrix Mouse	Chr6: 122.790461	9.487	10.3	Chr5: 110.582881	-0.4553	67	8.5E-05	0	0	1
10592457	258364	64863	Olfr976	olfactory receptor	Chr9: 39.955906	6.218	11.6	Chr5: 25.115971	-0.4552	67	8.5E-05	0	0.2692	0.2
10582811	270110	34290	Irf2bp2	interferon regulato	Chr8: 126.591116	10.21	10.4	ChrX: 9.334336	0.45519	67	8.5E-05	0.21093	0.3921	0
10442285	383218		Gm5224	predicted pseudog	Chr17: 22.734963	7.442	15	ChrX: 73.028443	0.45517	67	8.5E-05	0	0	1
10574184	67610	12164	Rspry1	ring finger and SP	Chr8: 94.601955	10.02	13.9	Chr9: 73.520597	0.45511	67	8.5E-05	0	0.0844	0.7
10493519	20416	7934	Shc1	src homology 2 do	Chr3: 89.418614	10.21	7.1	Chr16: 88.032782	0.45508	67	8.5E-05	0.33238	0.2028	0.3
10339830			Affy_103398	Affymetrix Mouse	ChrUn: 1.000000	14.19	7.3	Chr9: 74.198035	-0.4548	67	8.6E-05	0	0	1
10417421	52009	16934	Hn1l	hematological and	Chr14: 7.083208	7.066	9.8	Chr4: 16.446894	-0.4547	67	8.7E-05	0.1662	0.1338	0.5
10560058	232879	13118	Zbtb45	zinc finger and BT	Chr7: 13.005666	9.166	15.4	Chr14: 72.300282	0.45441	67	8.8E-05	0.20548	0.1208	0.6
10559436	77582	11510	Mboat7	membrane bound	Chr7: 3.677789	9.169	11.3	Chr9: 101.406063	0.45437	67	8.8E-05	0.2599	0	1
10577426	13218	85974	Defa-rs1	defensin, alpha, re	Chr8: 21.325888	7.492	7.5	Chr7: 40.170384	-0.4538	67	9E-05	0.25616	0	1
10385774	276865		Olfr1371	olfactory receptor	Chr11: 52.213052	6.218	6.9	Chr1: 47.189877	-0.4538	67	9E-05	0	0.3365	0.1
10340121	18107	69027	Nmt1	N-myristoyltransfe	Chr11: 102.921467	10.14	7.8	Chr10: 13.686973	0.45369	67	9.1E-05	0.33014	0.2159	0.3
10425046	626711		LOC626711	Affymetrix Mouse	Chr15: 77.702033	9.308	10.9	Chr19: 59.446822	-0.4537	67	9.1E-05	0	0	1
10473965	228359	20909	Arhgap1	Rho GTPase activ	Chr2: 91.650204	9.879	11.9	Chr1: 147.054880	0.45365	67	9.1E-05	0.31112	0.2929	0.1
10514327	319146	45671	Ifnz	interferon zeta	Chr4: 88.761101	7.907	11.8	Chr3: 144.666385	-0.4536	67	9.1E-05	0.25853	-0.407	0
10478825	228889	6431	Ddx27	DEAD (Asp-Glu-A	Chr2: 167.015249	9.998	9.5	Chr17: 7.713373	0.45347	67	9.1E-05	0	-0.109	0.6
10343251	15184	3995	Hdac5	histone deacetyla	Chr11: 102.067207	9.02	10	ChrX: 10.699902	0.45342	67	9.2E-05	0.34037	-0.02	0.9
10387985	327957	52602	A430084P05	RIKEN cDNA A43	Chr11: 70.790932	8.43	16.6	Chr15: 31.731351	0.45341	67	9.2E-05	0.19616	-0.011	1
10339551			Affy_103395	Affymetrix Mouse	ChrUn: 1.000000	4.589	9.2	Chr18: 49.946937	0.45329	67	9.2E-05	0	0	1
10596893	13138	3234	Dag1	dystroglycan 1	Chr9: 108.205934	9.659	9.6	Chr4: 16.430885	0.45317	67	9.2E-05	0.26241	0.0095	1
10413280			Affy_104132	Affymetrix Mouse	Chr14: 26.497655	7.307	10.1	Chr9: 95.329897	-0.4531	67	9.3E-05	0	0	1
10363003			Affy_103630	Affymetrix Mouse	Chr10: 46.377609	4.03	13.3	Chr16: 51.051146	0.45311	67	9.3E-05	0	0	1
10343295			Affy_103432	Affymetrix Mouse	ChrUn: 1.000000	8.04	9.3	Chr17: 5.991544	-0.4531	67	9.3E-05	0	0	1
10554895	233490	10926	Crebzf	CREB/ATF bZIP t	Chr7: 90.443025	10	10.3	Chr14: 70.695506	-0.4531	67	9.3E-05	0.31714	0.0211	0.9
10362102	1E+08		Gm10825	predicted gene 10	Chr10: 22.404681	8.033	8.8	Chr4: 16.446894	-0.4529	67	9.4E-05	0	0	1
10462863			Affy_104628	Affymetrix Mouse	Chr19: 37.870270	5.02	9.5	Chr9: 94.904747	0.45283	67	9.4E-05	0	0	1
10519495	70920	41723	4921511H03	RIKEN cDNA 492	Chr5: 7.857497	7.612	23.9	Chr7: 31.360167	0.45277	67	9.4E-05	0	0.0105	1
10558657	258201	110491	Olfr538	olfactory receptor	Chr7: 140.574131	6.597	11.1	Chr3: 146.631087	-0.4527	67	9.4E-05	0	-0.093	0.7
10505092	19359	37704	Rad23b	RAD23b homolog	Chr4: 55.350057	10.29	16.3	Chr4: 54.194913	0.45269	67	9.4E-05	0.24769	0.1188	0.6
10509441	230857	1068	Ece1	endothelin conver	Chr4: 137.862297	9.561	9.4	Chr13: 91.471415	0.45265	67	9.5E-05	0.32257	0.1872	0.4
10415065	65107	8535	Lrp10	low-density lipopr	Chr14: 54.464147	10.31	13.9	Chr14: 72.300282	0.45257	67	9.5E-05	0.22754	0.4104	0
10440717	16700		Krtap6-1	keratin associated	Chr16: 89.063708	8.653	12.3	Chr13: 91.702351	-0.4525	67	9.5E-05	0.2462	0.3762	0.1
10496837	70892	41578	Ttll7	tubulin tyrosine lig	Chr3: 146.852407	7.22	10.1	Chr17: 55.350963	0.45251	67	9.5E-05	0.24293	-0.358	0.1
10341774			Affy_103417	Affymetrix Mouse	ChrUn: 1.000000	8.678	15.6	ChrX: 10.699902	-0.4524	67	9.5E-05	0	0	1
10583508	66163	32286	Mrpl4	mitochondrial ribo	Chr9: 21.002738	9.473	13.3	Chr9: 103.625467	0.45236	67	9.6E-05	0	-0.055	0.8
10339565			Affy_103395	Affymetrix Mouse	ChrUn: 1.000000	9.677	10.7	Chr7: 36.716982	0.45222	67	9.6E-05	0	0	1
10604604			mir-450a-1	Affymetrix Mouse	ChrX: 53.048154	4.388	12.4	Chr18: 24.442754	0.45221	67	9.6E-05	0	0	1
10560354	66989	12063	Kctd20	potassium channe	Chr7: 17.685847	8.916	9.9	ChrX: 10.699902	0.45205	67	9.7E-05	0.14498	0.2584	0.2
10526675	78829	11390	Tsc22d4	TSC22 domain far	Chr5: 137.745996	9.452	12.4	Chr4: 47.699478	0.45201	67	9.7E-05	0.30471	-0.387	0.1
10597074			Affy_105970	Affymetrix Mouse	Chr9: 109.634710	9.239	7.2	Chr6: 37.657959	-0.4515	67	9.9E-05	0	0	1
10510125	381572	28662	9430007A20	RIKEN cDNA 943	Chr4: 144.587244	7.735	13.5	Chr17: 6.039016	0.4515	67	9.9E-05	0	0.3729	0.1
10377380	68964	11830	1500010J02	RIKEN cDNA 150	Chr11: 69.016096	9.676	10.2	Chr17: 7.705398	0.45134	67	1E-04	0.20962	-0.189	0.4
10546056	69834	43122	Rab43	RAB43, member F	Chr6: 87.788853	9.948	7.6	Chr14: 107.22150	0.45125	67	0.0001	0	0.2253	0.3
10465366	81909	4935	Zfpl1	zinc finger like pro	Chr19: 6.080762	8.494	14.5	Chr13: 91.702351	0.4512	67	0.0001	0.239	0.3068	0.1
10417302	544988		544988	Alpha17-takusan	Chr14: 5.085166	6.99	11.6	Chr8: 95.747331	-0.4511	67	0.0001	0	0	1
10344417			Affy_103444	Affymetrix Mouse	ChrUn: 1.000000	8.312	10.3	Chr17: 12.162949	-0.451	67	0.0001	0	0	1
10468448			Affy_104684	Affymetrix Mouse	Chr19: 49.064447	8.409	17.2	Chr18: 24.442754	-0.4508	67	0.0001	0	0	1
10603440	22376	30970	Was	Wiskott-Aldrich sy	ChrX: 8.081453	9.435	14.9	Chr10: 53.743148	0.45073	67	0.0001	0.35051	-0.027	0.9
10342414			Affy_103424	Affymetrix Mouse	ChrUn: 1.000000	8.804	7.9	Chr9: 32.369878	-0.4507	67	0.0001	0	0	1
10520553	68796	9801	Tmem214	transmembrane pr	Chr5: 30.869633	10.13	9.2	Chr4: 121.044402	0.45033	67	0.0001	0	0	1
10392120	83796	20671	Smarcd2	SWI/SNF related,	Chr11: 106.263186	10.3	9.5	Chr18: 25.697926	0.45028	67	0.0001	0.20753	0.2634	0.2
10533929	20778	21132	Scarb1	scavenger recepto	Chr5: 125.277090	10.38	8	Chr14: 107.22150	0.45027	67	0.0001	0.29676	-0.242	0.2
10380646			Mir10a	Affymetrix Mouse	Chr11: 96.317165	4.799	11.9	Chr18: 24.676883	0.45011	67	0.0001	0	0	1
10384032	18972	4538	Pold2	polymerase (DNA	Chr11: 5.872188	9.778	11.1	Chr17: 9.373070	0.45009	67	0.00011	0.19525	0.1841	0.4
10425177	110253	5104	Triobp	TRIO and F-actin	Chr15: 78.947724	8.828	14	Chr19: 23.165770	0.44991	67	0.00011	0.23475	0.0661	0.7
10569898	213027	71934	Evi5l	ecotropic viral inte	Chr8: 4.166567	8.244	19.7	Chr17: 6.039016	0.44966	67	0.00011	0.24712	0	1
10608182			Affy_106081	Affymetrix Mouse	ChrY: 2.061234	4.207	9	Chr17: 9.373070	0.44962	67	0.00011	0	0	1
10563275	20174	4856	Ruvbl2	RuvB-like protein	Chr7: 45.421897	9.994	9	Chr16: 91.226807	0.44957	67	0.00011	0.28384	-0.061	0.8

10468980	66540	75316	Fam107b	Fam107b family w	Chr2: 3.570651	9.517	11.3	Chr1: 145.376780	0.44954	67	0.00011	0	0	1
10481711	20910	2382	Stxbp1	syntaxin binding p	Chr2: 32.787961	8.634	12.5	Chr11: 33.490349	0.44943	67	0.00011	0.2828	-0.343	0.1
10550527	272359	32276	Irf2bp1	interferon regulato	Chr7: 19.004053	9.124	10.3	Chr14: 67.811657	0.44943	67	0.00011	0.17608	-0.103	0.6
10343025			Affy_103430	Affymetrix Mouse	ChrUn: 1.000000	10.77	11.2	Chr1: 145.376780	-0.4494	67	0.00011	0	0	1
10460123	319609		9330132A10	RIKEN cDNA 933	Chr18: 89.293502	4.905	13.9	Chr18: 24.442754	0.44924	67	0.00011	0	0.3126	0.1
10579125	234366	9766	Gatad2a	GATA zinc finger	Chr8: 69.908470	9.83	16.4	Chr14: 49.089284	0.44922	67	0.00011	0.17449	0	1
10365420	103266	17533	AI597468	expressed sequer	Chr10: 85.102743	8.511	11	ChrX: 36.008085	0.44918	67	0.00011	0	-0.631	0
10481147	20932	6052	Surf4	surfeit gene 4	Chr2: 26.920039	10.72	10.8	Chr13: 93.093865	0.449	67	0.00011	0.25249	0.1898	0.4
10417359	52009	16934	Hn1l	hematological and	Chr14: 6.409511	7.114	11.5	Chr4: 16.446894	-0.449	67	0.00011	0.1662	0.1338	0.5
10410039	19206	223	Ptch1	patched homolog	Chr13: 63.511533	9.034	16.5	Chr7: 36.716982	0.44837	67	0.00011	0.31782	-0.258	0.2
10455454			Affy_104554	Affymetrix Mouse	Chr18: 44.204574	4.138	11.6	ChrX: 9.334336	0.44829	67	0.00011	0	0	1
10403577			Affy_104035	ncrna:snoRNA chr	Chr13: 12.589591	8.702	6.3	Chr15: 28.321742	-0.4482	67	0.00011	0	0	1
10549990	171266	104269	Gm4741	predicted gene 47	Chr7: 12.176193	5.73	13.5	Chr13: 95.700999	-0.4482	67	0.00011	0	0	1
10438198	94112	32283	Med15	mediator complex	Chr16: 17.651221	9.857	13.2	Chr11: 89.612498	0.44816	67	0.00011	0.14447	0.1832	0.4
10445574	66515	56683	Cul7	cullin 7	Chr17: 46.650338	8.218	20.3	Chr11: 80.586498	0.4481	67	0.00011	0.31111	-0.229	0.3
10526427	74198	56904	Dtx2	deltex 2 homolog	Chr5: 135.994805	8.655	10.7	Chr9: 94.905865	0.44803	67	0.00011	0.24007	-0.293	0.1
10490159	65112	10608	Pmepa1	prostate transmem	Chr2: 173.227323	9.057	8.5	Chr10: 73.927005	0.44788	67	0.00012	0.34387	-0.439	0
10518520	71707	8336	Ubiad1	UbiA prenyltransfe	Chr4: 148.434495	9.452	15.3	Chr4: 144.912885	0.44786	67	0.00012	0.31222	0.5005	0
10582847	74703	49919	Ccdc7	coiled-coil domain	Chr8: 128.980019	4.739	8.9	Chr17: 24.200704	0.44777	67	0.00012	0.28461	-0.066	0.7
10545720	70527	4719	Stambp	STAM binding pro	Chr6: 83.543206	8.977	8.5	Chr2: 82.106116	0.44764	67	0.00012	0.22431	0.1157	0.6
10558649	18345	110491	Olfr46	olfactory receptor	Chr7: 140.538519	6.68	8.3	Chr3: 148.808672	-0.4475	67	0.00012	0	0.2903	0.2
10574342	101985	11611	AA960436	expressed sequer	Chr8: 95.332340	9.878	15.6	Chr10: 53.743148	0.44746	67	0.00012	0	0.1276	0.5
10412520			Affy_104125	Affymetrix Mouse	ChrUn: 1.000000	6.963	10.2	Chr4: 16.446894	-0.4472	67	0.00012	0	0	1
10364328	622629		Gm10318	predicted gene 10	Chr10: 77.852862	9.542	10.2	Chr13: 92.688454	-0.4472	67	0.00012	0	0	1
10390945	69464	87041	Krtap4-13	keratin associated	Chr11: 99.803670	8.285	11.7	ChrX: 136.048006	-0.4472	67	0.00012	0	0	1
10551185	21803	540	Tgfb1	transforming grow	Chr7: 25.687002	11.33	9.5	Chr10: 27.031021	0.44704	67	0.00012	0.36454	-0.104	0.6
10343862			Affy_103438	Affymetrix Mouse	ChrUn: 1.000000	8.565	9.5	Chr14: 70.695506	-0.447	67	0.00012	0	0	1
10424909	15499	74556	Hsf1	heat shock factor	Chr15: 76.477435	9.754	13.2	Chr8: 95.747331	0.44668	67	0.00012	0.3837	-0.315	0.1
10499766	26568	11529	Slc27a3	solute carrier fami	Chr3: 90.385240	7.827	16.2	ChrX: 9.334336	0.44667	67	0.00012	0.24893	0.0132	0.9
10379401	71956	12427	Rnf135	ring finger protein	Chr11: 80.183872	8.212	17.7	ChrX: 9.334336	0.44657	67	0.00012	0.25544	-0.132	0.5
10546725	55983	10328	Pdzrn3	PDZ domain conta	Chr6: 101.149614	7.067	13.3	Chr15: 85.427091	0.44628	67	0.00012	0.2637	0.04	0.8
10386756			Affy_103867	Affymetrix Mouse	Chr11: 61.614160	7.839	12.4	Chr3: 148.808672	-0.4462	67	0.00012	0	0	1
10489195	75425	40969	Tti1	Tel2 interacting pr	Chr2: 157.981803	9.715	17.5	Chr7: 36.716982	0.44621	67	0.00012	0.13496	0	1
10407420	56349	4283	Net1	neuroepithelial ce	Chr13: 3.882561	8.989	12.3	Chr19: 7.273188	0.44586	67	0.00012	0.20332	0.2402	0.2
10398972	116870	3442	Mta1	metastasis associ	Chr12: 113.098278	9.93	11.1	Chr11: 80.036498	0.44573	67	0.00013	0.40581	-0.398	0
10546903	101206	4633	Tada3	transcriptional ada	Chr6: 113.366635	8.851	10.9	Chr19: 23.165770	0.44563	67	0.00013	0.31909	0	1
10425302	14904	3165	Gtpbp1	GTP binding prote	Chr15: 79.690895	10.67	12.3	Chr7: 36.716982	0.44557	67	0.00013	0.25567	0.1974	0.3
10342386			Affy_103423	Affymetrix Mouse	ChrUn: 1.000000	12.06	11	Chr18: 24.676883	-0.4455	67	0.00013	0	0	1
10542592	1E+08		Gm10400	predicted gene 10	Chr6: 141.341777	7.06	13.8	Chr17: 12.315221	-0.4453	67	0.00013	0	0	1
10400004	751520		Mir680-3	microRNA 680-3	Chr12: 35.194811	9.097	10.5	Chr14: 72.300282	-0.4453	67	0.00013	0.18325	0	1
10339731			Affy_103397	Affymetrix Mouse	ChrUn: 1.000000	12.22	13.6	Chr18: 24.676883	-0.4452	67	0.00013	0	0	1
10449386	224647	32575	C6orf106	human chromosor	Chr17: 27.751235	10.5	11.5	Chr17: 21.686210	0.44508	67	0.00013	0.10031	0	1
10526853	80752	56879	Fam20c	family with sequer	Chr5: 138.755100	8.205	26.3	Chr5: 137.893580	0.44486	67	0.00013	0.38061	0	1
10339947			Affy_103399	Affymetrix Mouse	ChrUn: 1.000000	8.792	12	Chr8: 15.361363	-0.4447	67	0.00013	0	0	1
10366825	216439	86815	Agap2	ArfGAP with GTPa	Chr10: 127.075442	9.597	15.9	Chr10: 125.49108	0.44468	67	0.00013	0.2952	0	1
10562166	66438	10911	Hamp2	hepcidin antimicro	Chr7: 30.922389	8.494	8.4	Chr7: 36.716982	-0.4446	67	0.00013	0.26457	0.0244	0.9
10600082	18194	5951	Nsdhl	NAD(P) depender	ChrX: 72.918521	9.264	13.7	Chr17: 3.223874	0.44455	67	0.00013	0.29692	-0.131	0.5
10499372	229517	14000	Slc25a44	solute carrier fami	Chr3: 88.410495	9.574	12.3	Chr11: 83.708433	0.44434	67	0.00013	0	0.1126	0.6
10503835	52187	49667	Rragd	Ras-related GTP l	Chr4: 32.983463	8.174	15	Chr4: 19.581204	0.44425	67	0.00013	0	-0.084	0.7
10560434	67369	9765	Qpctl	glutaminyl-peptide	Chr7: 19.140217	8.556	10.3	Chr9: 24.616289	0.44425	67	0.00013	0.267	0.2598	0.2
10566132	56212	68196	Rhog	ras homolog gene	Chr7: 102.239126	11.26	9.3	Chr4: 47.699478	0.44408	67	0.00013	0.25971	0.1786	0.4
10529305	68366	44528	Tmem129	transmembrane pr	Chr5: 33.653216	9.201	9.9	Chr5: 85.578195	0.44405	67	0.00013	0	-0.369	0.1
10574595			Affy_105745	Affymetrix Mouse	Chr8: 105.045164	7.704	15.5	Chr8: 118.380694	0.44385	67	0.00014	0	0	1
10427468			Affy_104274	Affymetrix Mouse	Chr15: 6.530603	9.179	9	Chr13: 92.688454	-0.4436	67	0.00014	0	0	1
10468762	71653	41249	4930506M07	RIKEN cDNA 493	Chr19: 58.973358	8.502	11	Chr1: 192.154974	0.44331	67	0.00014	0.24452	0.2934	0.1
10573821	20104	85949	Rps6	ribosomal protein	Chr8: 88.806391	13.65	10	Chr7: 36.620249	-0.4432	67	0.00014	0.31507	-0.135	0.5
10366698	270802	17580	BC048403	cDNA sequence B	Chr10: 121.739937	8.445	18.7	Chr10: 121.66039	0.44321	67	0.00014	0	-0.247	0.2
10549653	11984	68199	Atp6v0c	ATPase, H+ trans	Chr7: 4.412436	11.78	9.9	Chr4: 63.271283	0.44316	67	0.00014	0.28578	0.3848	0.1
10415021	105501	56937	Abhd4	abhydrolase doma	Chr14: 54.254188	9.416	8.9	ChrX: 9.334336	0.443	67	0.00014	0.19269	0.0796	0.7
10466000	72982	9518	Tmem138	transmembrane pr	Chr19: 10.570478	8.369	10.5	Chr5: 85.578195	0.44289	67	0.00014	0	-0.179	0.4
10564818	16790	68163	Anpep	alanyl (membrane	Chr7: 79.821803	9.007	10.7	Chr7: 114.579327	0.44289	67	0.00014	0.38362	0.4792	0
10601178	26549	22708	Itgb1bp2	integrin beta 1 bin	ChrX: 101.449109	7.424	12.8	Chr16: 63.773114	-0.4429	67	0.00014	0.30834	-0.188	0.4
10423230	12565	9450	Cdh9	cadherin 9	Chr15: 16.778111	5.314	8.1	Chr6: 7.955563	0.44286	67	0.00014	0.2305	0.0721	0.7
10355225	1E+08		Gm10558	predicted gene 10	Chr1: 66.322530	4.876	13.5	ChrX: 9.334336	0.44269	67	0.00014	0	0	1
10450272	13079	68063	Cyp21a1	cytochrome P450,	Chr17: 34.801780	7.352	11.8	Chr11: 82.187018	0.44251	67	0.00014	0.31461	-0.043	0.8
10459930	67655	31254	Ctdp1	CTD (carboxy-terr	Chr18: 80.407959	8.972	17	Chr7: 36.716982	0.44247	67	0.00014	0.20854	0.2576	0.2
10381082	19401	20262	Rara	retinoic acid recep	Chr11: 98.937696	9.005	10.2	Chr1: 151.921167	0.44245	67	0.00014	0.33064	0.199	0.3
10493203	56700	10562	0610031J06	RIKEN cDNA 061	Chr3: 88.325023	10.28	11	ChrX: 9.334336	0.44243	67	0.00014	0.25423	0.3666	0.1
10424370	211770	75216	Trib1	tribbles homolog 1	Chr15: 59.648654	8.483	12.9	Chr16: 39.118020	0.44217	67	0.00015	0.38954	0.251	0.2
10394674	216233	2880	Socs2	suppressor of cyto	Chr10: 14.781561	8.532	12.7	Chr3: 68.092749	0.44208	67	0.00015	0.43108	0.1239	0.5
10375525	258877	105890	Olfr1395	olfactory receptor	Chr11: 49.148259	8.052	12.1	Chr13: 92.688454	-0.442	67	0.00015	0	-0.266	0.2
10591869	80517	10756	Herpud2	HERPUD family m	Chr9: 25.108126	10.72	10.4	Chr13: 3.150000	0.44196	67	0.00015	0	-0.323	0.1
10604932	171486	87079	Cd99l2	CD99 antigen-like	ChrX: 71.420065	9.234	11.1	ChrX: 70.948498	0.44177	67	0.00015	0.27164	-0.428	0
10339286			Affy_103392	Affymetrix Mouse	ChrUn: 1.000000	9.412	8.6	Chr13: 92.688454	0.44175	67	0.00015	0	0	1
10602729			Affy_106027	Affymetrix Mouse	ChrX: 154.711258	4.07	14.8	Chr18: 24.676883	0.44168	67	0.00015	0	0	1
10341787			Affy_103417	Affymetrix Mouse	ChrUn: 1.000000	12.33	8.1	Chr13: 83.736987	0.44166	67	0.00015	0	0	1
10456293	225638	50475	Alpk2	alpha-kinase 2	Chr18: 65.306430	6.4	12.8	Chr7: 36.760233	-0.4415	67	0.00015	0.06437	-0.238	0.2
10410766	13865	21158	Nr2f1	nuclear receptor s	Chr13: 78.188973	7.297	11.3	Chr14: 117.93614	0.44151	67	0.00015	0.39479	-0.486	0
10419158	630952	117946	Ang6	angiogenin, ribonu	Chr14: 44.001826	7.186	12.5	Chr18: 49.069651	-0.4412	67	0.00015	0	0	1
10509820	108911	10282	Rcc2	regulator of chrom	Chr4: 140.700541	11.43	13.4	Chr5: 146.682242	0.4412	67	0.00015	0.17619	-0.108	0.6
10369738	93759	56556	Sirt1	sirtuin 1, NAD+ de	Chr10: 63.319005	9.649	11.2	Chr7: 36.716982	0.4411	67	0.00015	0.33184	-0.296	0.1
10387807	104457	100582	0610010K14	RIKEN cDNA 061	Chr11: 70.235206	10.46	15.8	Chr10: 53.743148	0.44105	67	0.00015	0	-0.025	0.9
10517566			Affy_105175	Affymetrix Mouse	Chr4: 137.375652	8.803	8.3	Chr17: 24.200704	-0.441	67	0.00015	0	0	1
10557793	20909	105435	Stx4a	syntaxin 4A (place	Chr7: 127.841808	9.692	12	Chr4: 59.850763	-0.441	67	0.00015	0.24602	-0.074	0.7
10364824	103236	100845	Csnk1g2	casein kinase 1, g	Chr10: 80.622838	10.67	9.5	Chr14: 72.300282	0.44093	67	0.00015	0.2442	0.1519	0.5
10453792	225160	38012	Thoc1	THO complex 1	Chr18: 10.262249	7.592	6.3	Chr17: 5.991544	0.44087	67	0.00015	0.33162	-0.388	0.1
10565924	320100	13151	Relt	RELT tumor necro	Chr7: 100.845848	8.833	10.2	Chr17: 12.315221	0.44074	67	0.00015	0	-0.199	0.3
10515828	435804	86688	Olfr1335	olfactory receptor	Chr4: 118.808855	6.659	9.6	Chr7: 39.677599	-0.4407	67	0.00015	0	0.0811	0.7

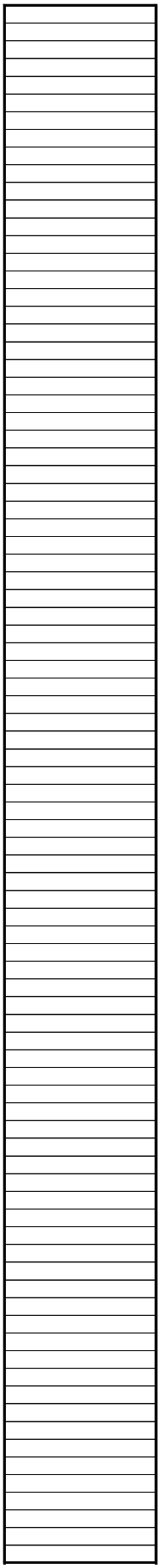
10342677	15184	3995	Hdac5	histone deacetyla	Chr11: 102.085747	9.012	17.4	Chr18: 24.676883	-0.4407	67	0.00015	0.34037	-0.02	0.9
10480714	227620	71313	Uap1l1	UDP-N-acteylgluc	Chr2: 25.360356	9.58	43	Chr2: 25.852660	0.44071	67	0.00015	0	0.3534	0.1
10342969			Affy_103429	Affymetrix Mouse	ChrUn: 1.000000	9.743	10.5	Chr17: 3.223874	0.44042	67	0.00016	0	0	1
10605820	245522	10266	Zc4h2	zinc finger, C4H2	ChrX: 95.639193	8.457	17.4	ChrX: 21.061933	0.44037	67	0.00016	0.20964	0	1
10547701	19305	270	Pex5	peroxisomal bioge	Chr6: 124.396816	8.791	12.1	ChrX: 9.334336	0.44036	67	0.00016	0.34168	0.2918	0.1
10417373	545001		ENSMUSG0	predicted gene, E	Chr14: 6.613996	7.112	8.9	Chr8: 95.747331	-0.4403	67	0.00016	0	0	1
10602062	19139	68275	Prps1	phosphoribosyl py	ChrX: 140.456613	10.94	8	Chr17: 85.922575	0.44007	67	0.00016	0.23089	-0.422	0
10415960	210925	10096	Ints9	integrator comple	Chr14: 64.950045	9.923	17.1	Chr7: 36.693524	0.43991	67	0.00016	0	-0.201	0.3
10438975	268880	17610	AI480653	expressed sequer	Chr16: 30.955625	8.44	15.5	Chr1: 151.921167	0.43982	67	0.00016	0	-0.316	0.1
10373832			Affy_103738	predicted gene	Chr11: 4.002457	5.672	9	ChrX: 9.334336	0.43976	67	0.00016	0	0	1
10343175			Affy_103431	Affymetrix Mouse	ChrUn: 1.000000	7.659	16.7	Chr14: 70.695506	-0.4397	67	0.00016	0	0	1
10474339	1E+08		Gm10795	predicted gene 10	Chr2: 106.004275	4.574	16.8	Chr18: 24.676883	0.43953	67	0.00016	0	0	1
10373986	11764	21972	Ap1b1	adaptor protein co	Chr11: 4.947521	10.96	9.9	Chr11: 83.708433	0.43952	67	0.00016	0.27271	0.2042	0.3
10510239	1E+08		Gm16503	predicted gene 16	Chr4: 147.540218	7.274	10.4	Chr9: 88.498812	-0.4393	67	0.00016	0	0	1
10463661	93679	12795	Trim8	tripartite motif-con	Chr19: 46.502299	9.463	12.3	Chr13: 91.702351	0.43925	67	0.00016	0.2448	0.13	0.5
10461898	54391	115690	Rfk	riboflavin kinase (	Chr19: 17.394083	10.59	14.7	Chr4: 22.550457	0.43923	67	0.00016	0.24828	0.4184	0
10555870	258809	64922	Olfr651	olfactory receptor	Chr7: 104.552884	6.723	12.6	Chr13: 97.517537	-0.4392	67	0.00016	0	0.3245	0.1
10346799	54167	8097	Icos	inducible T-cell co	Chr1: 60.977914	9.034	24.7	Chr17: 40.571109	0.43852	67	0.00017	0.35207	-0.204	0.3
10417258	544988		544988	Alpha17-takusan	Chr14: 6.373804	7.003	10.9	Chr8: 95.747331	-0.4384	67	0.00017	0	0	1
10345404	241052		C230030N03	RIKEN cDNA C23	Chr1: 34.723084	7.088	11.4	Chr5: 113.315727	-0.4381	67	0.00017	0	0.3428	0.1
10606069	114671	77996	4930444G20	RIKEN cDNA 493	ChrX: 102.106603	7.526	8.7	Chr7: 70.848220	-0.4381	67	0.00017	0	0.0854	0.7
10369704	432467	11012	Hnrnph3	heterogeneous nu	Chr10: 63.015648	10.12	15.4	Chr8: 118.380694	-0.438	67	0.00017	0.19808	0	1
10477090	67231	32574	Tbc1d20	TBC1 domain fam	Chr2: 152.293872	10.02	14.4	ChrX: 10.699902	0.43803	67	0.00017	0.22302	-0.068	0.7
10439016	114671	77996	4930444G20	RIKEN cDNA 493	Chr16: 31.377632	7.245	9.5	Chr7: 71.410581	-0.438	67	0.00017	0	0.0854	0.7
10373101	117150	23484	Pip4k2c	phosphatidylinosit	Chr10: 127.197058	9.573	13.9	Chr11: 80.586498	0.43789	67	0.00017	0.20874	0.3707	0.1
10477630	67068	69161	Dynlrb1	dynein light chain	Chr2: 155.236565	11.4	9.2	Chr18: 24.162250	0.43782	67	0.00017	0.25262	-0.032	0.9
10436770	640627		Gm9789	predicted gene 97	Chr16: 89.157916	4.363	8.3	Chr2: 63.921517	0.43753	67	0.00017	0	0	1
10340331			Affy_103403	Affymetrix Mouse	ChrUn: 1.000000	7.656	9.5	Chr14: 54.736169	-0.4375	67	0.00017	0	0	1
10371420	72843	8235	Prdm4	PR domain contai	Chr10: 85.891964	9.472	14.6	Chr11: 88.617478	0.43747	67	0.00017	0.24094	-0.129	0.5
10338815			Affy_103388	Affymetrix Mouse	ChrUn: 1.000000	10.26	11.7	Chr15: 96.200659	0.43733	67	0.00018	0	0	1
10375229			Affy_103752	predicted pseudog	Chr11: 37.482496	8.562	7.5	Chr6: 32.610603	-0.4373	67	0.00018	0	0	1
10438171	69009	12293	Thap7	THAP domain con	Chr16: 17.527979	9.127	10.3	Chr14: 64.666842	0.43723	67	0.00018	0	0.2751	0.2
10587686			Affy_105876	Affymetrix Mouse	Chr9: 88.991855	9.151	10.2	Chr11: 83.708433	-0.4372	67	0.00018	0	0	1
10595628			Affy_105956	Affymetrix Mouse	Chr9: 88.675172	9.151	10.2	Chr11: 83.708433	-0.4372	67	0.00018	0	0	1
10415052	17387	21040	Mmp14	matrix metallopep	Chr14: 54.431612	9.779	10.4	Chr7: 37.923912	0.43717	67	0.00018	0.36097	-0.108	0.6
10381668	18107	69027	Nmt1	N-myristoyltransfe	Chr11: 103.028551	10.73	9.1	Chr12: 104.719074	0.43708	67	0.00018	0.33014	0.2159	0.3
10343477			Affy_103434	Affymetrix Mouse	ChrUn: 1.000000	9.472	10.7	Chr17: 24.200704	-0.437	67	0.00018	0	0	1
10364444	17123	8413	Madcam1	mucosal vascular	Chr10: 79.664583	8.836	12.7	Chr1: 145.201671	0.4368	67	0.00018	0.36536	0.2747	0.2
10602893			Affy_106028	predicted gene	ChrX: 160.036321	6.466	11.4	Chr9: 94.904747	0.43675	67	0.00018	0	0	1
10598216			Affy_105982	Affymetrix Mouse	ChrX: 3.342439	9.087	8.3	Chr18: 24.676883	-0.4366	67	0.00018	0	0	1
10430113	223666	27825	Arhgap39	Rho GTPase activ	Chr15: 76.723985	8.694	15.7	Chr5: 25.115971	0.43654	67	0.00018	0.20925	0	1
10574694	234683	23475	Elmo3	engulfment and ce	Chr8: 105.305601	7.443	10.5	Chr6: 63.787060	0.4365	67	0.00018	0	0.577	0
10571849	50753	8137	Fbxo8	F-box protein 8	Chr8: 56.551125	10.2	10.6	Chr15: 61.693736	0.43627	67	0.00018	0.19307	-0.2	0.3
10572870	70823	4007	Hmgxb4	HMG box domain	Chr8: 74.993702	9.151	11.3	Chr2: 92.415016	0.43624	67	0.00018	0.17104	0	1
10525731			Affy_105257	Affymetrix Mouse	Chr5: 124.338411	7.146	10.9	Chr18: 24.442754	-0.4361	67	0.00018	0	0	1
10421571	20104	85949	Rps6	ribosomal protein	Chr14: 73.796541	13.74	12.9	Chr7: 36.620249	-0.436	67	0.00019	0.31507	-0.135	0.5
10552351			Affy_105523	ncrna:miRNA chro	ChrUn: 1.000000	11.46	8.4	Chr7: 36.955819	-0.4359	67	0.00019	0	0	1
10355115	66494	40859	Prelid1	PRELI domain cor	Chr1: 63.364717	11.1	12.9	ChrX: 9.334336	0.43579	67	0.00019	0.28677	0.4119	0
10513955			Affy_105139	Affymetrix Mouse	Chr4: 75.280626	4.241	11	Chr18: 24.162250	0.43573	67	0.00019	0	0	1
10555946	20597	457	Smpd1	sphingomyelin ph	Chr7: 105.554392	9.607	8.1	Chr15: 41.788150	0.43565	67	0.00019	0.36843	-0.141	0.5
10513139	545622		Ptpn3	protein tyrosine ph	Chr4: 57.194295	7.313	9.3	Chr6: 126.829501	0.43563	67	0.00019	0.31715	0.1222	0.6
10591430	71766		Raver1	ribonucleoprotein	Chr9: 21.074158	9.703	16.2	Chr7: 36.716982	0.43551	67	0.00019	0.23027	-0.374	0.1
10371067	59004	104136	Pias4	protein inhibitor of	Chr10: 81.153961	9.32	14.3	Chr17: 12.315221	0.43551	67	0.00019	0.31929	0.6264	0
10338895			Affy_103388	Affymetrix Mouse	ChrUn: 1.000000	9.76	7.7	Chr14: 72.300282	-0.4354	67	0.00019	0	0	1
10516221			Affy_105162	Affymetrix Mouse	Chr4: 123.902119	6.858	11.7	Chr4: 28.322409	-0.4353	67	0.00019	0	0	1
10341736			Affy_103417	Affymetrix Mouse	ChrUn: 1.000000	7.763	8.6	Chr5: 114.599325	-0.4352	67	0.00019	0	0	1
10403748	100434	11137	Slc44a1	solute carrier fami	Chr4: 17.370708	9.662	7.6	Chr7: 36.955819	-0.4351	67	0.00019	0.23715	-0.185	0.4
10346098			Affy_103460	Affymetrix Mouse	Chr1: 45.905629	6.665	12.9	Chr3: 147.331131	-0.4345	67	0.0002	0	0	1
10561153	243881	117483	Cyp2b23	cytochrome P450,	Chr7: 26.665233	7.093	7.4	Chr5: 25.445855	-0.4344	67	0.0002	0.21762	0.415	0
10441954	381062	19936	Ermard	ER membrane ass	Chr17: 15.089739	7.187	13.3	Chr3: 148.808672	-0.4344	67	0.0002	0	0	1
10411609			Affy_104116	ncrna:miRNA chro	ChrUN: 1.000000	11.28	6.8	Chr13: 92.688454	-0.4344	67	0.0002	0	0	1
10409486	67399		Pdlim7	PDZ and LIM dom	Chr13: 55.495795	8.942	8.3	Chr19: 23.165770	0.43434	67	0.0002	0.2986	-0.087	0.7
10493633	59069	81889	Tpm3	tropomyosin 3, ga	Chr3: 90.072681	9.963	8.8	Chr9: 74.557367	-0.4343	67	0.0002	0.30141	0.004	1
10527571	67443	69359	Map1l3cb	microtubule-assoc	Chr8: 148.220558	9.506	12.5	Chr17: 12.315221	0.43412	67	0.0002	0.29967	0	1
10441313	207781	18368	C2cd2	C2 calcium-depen	Chr16: 97.855216	8.893	12.3	Chr7: 36.620249	0.43395	67	0.0002	0.11184	0	1
10511879			Affy_105118	predicted gene	Chr4: 25.867989	8.307	11.7	Chr17: 4.257391	0.43393	67	0.0002	0	0	1
10420316	192113	68197	Atp12a	ATPase, H+/K+ tra	Chr14: 56.378590	8.641	9.1	Chr18: 24.442754	-0.4339	67	0.0002	0.32154	0.3437	0.1
10371256	50721	6924	Sirt6	sirtuin 6 (silent ma	Chr10: 81.621785	8.947	11.9	ChrX: 9.334336	0.43387	67	0.0002	0.38853	-0.303	0.1
10515536	230673	40968	Ipo13	importin 13	Chr4: 117.894492	9.223	12.3	Chr7: 36.760233	0.43371	67	0.0002	0.21209	-0.205	0.3
10563895			Affy_105638	Affymetrix Mouse	Chr7: 59.344073	4.539	10.1	ChrX: 10.699902	0.43349	67	0.0002	0	0	1
10365005	13144	20353	Dapk3	death-associated	Chr10: 81.183918	9.978	18.1	Chr13: 92.688454	0.43347	67	0.0002	0.32005	-0.21	0.3
10412978	75602		1810062O18	RIKEN cDNA 181	Chr14: 20.569886	7.845	10.5	Chr11: 83.708433	-0.4335	67	0.0002	0	-0.241	0.2
10338302			Affy_103383	Affymetrix Mouse	ChrUn: 1.000000	6.924	11.9	Chr14: 67.811657	-0.4334	67	0.00021	0	0	1
10474112	22034	3395	Traf6	TNF receptor-ass	Chr2: 101.678440	9.973	14.6	Chr4: 16.430885	0.43335	67	0.00021	0.29848	0.1054	0.6
10601537	635086		LOC635086	predicted pseudog	ChrX: 114.989150	8.303	14.8	Chr4: 54.194913	0.43335	67	0.00021	0	0	1
10417769	544988		544988	hypothetical prote	Chr14: 19.580071	8.627	8	Chr4: 16.446894	-0.4333	67	0.00021	0	0	1
10603099	14205	3288	Figf	c-fos induced grov	ChrX: 164.373548	8.466	10.5	Chr7: 111.674828	0.43328	67	0.00021	0.35525	-0.014	0.9
10383395	27376	6519	Slc25a10	solute carrier fami	Chr11: 120.491862	9.225	14.1	Chr19: 8.707699	0.43317	67	0.00021	0.22626	0.561	0
10576056	67443	69359	Map1l3cb	microtubule-assoc	Chr8: 121.590450	10.93	8.7	Chr5: 64.699027	0.43297	67	0.00021	0.29967	0	1
10570618	574081		Defb46	defensin beta 46	Chr8: 19.239916	7.683	11.7	Chr8: 11.279405	-0.4328	67	0.00021	0	0	1
10375713	103534	8611	Mgat4b	mannoside acetyl	Chr11: 50.225633	8.812	13.5	Chr19: 23.844199	0.43277	67	0.00021	0.29652	0.3042	0.1
10342265			Affy_103422	Affymetrix Mouse	ChrUn: 1.000000	3.937	13.3	Chr16: 49.849657	0.43266	67	0.00021	0	0	1
10339002			Affy_103390	Affymetrix Mouse	ChrUn: 1.000000	6.675	14.3	Chr2: 36.097874	-0.4326	67	0.00021	0	0	1
10557311	791408		Gm16496	predicted gene 16	Chr7: 124.344552	7.309	11.3	ChrX: 131.112816	-0.4325	67	0.00021	0	0	1
10363486	216011	45208	Lrrc20	leucine rich repea	Chr10: 61.475833	8.584	12.1	Chr17: 12.315221	0.4325	67	0.00021	0	-0.192	0.3
10388869	21927	22519	Tnfaip1	tumor necrosis fac	Chr11: 78.522848	8.821	9.4	Chr18: 82.377768	0.43242	67	0.00021	0.31141	0.1553	0.4
10544720	53379	22992	Hnrnpa2b1	heterogeneous nu	Chr6: 51.460434	12.15	13.3	Chr18: 24.676883	-0.4324	67	0.00021	0.34968	0	1
10608385	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 19.718081	5.101	11.9	Chr4: 16.446894	0.4322	67	0.00021	0.21707	-0.014	0.9

10505000	66536	75044	Nipsnap3b	nipsnap homolog	Chr4: 53.011924	9.128	13.1	Chr9: 97.359333	0.43218	67	0.00022	0	0	1
10579731	70625	68417	Med26	mediator complex	Chr8: 72.494558	8.567	12.4	Chr16: 13.593622	0.43206	67	0.00022	0	-0.158	0.4
10586718	320440		9530091C08	RIKEN cDNA 953	Chr9: 68.765346	6.99	16.1	Chr17: 7.713373	-0.432	67	0.00022	0	-0.054	0.8
10338505			Affy_103385	Affymetrix Mouse	ChrUn: 1.000000	9.208	10.6	Chr7: 70.164957	-0.432	67	0.00022	0	0	1
10338979			Affy_103389	Affymetrix Mouse	ChrUn: 1.000000	10.5	6.9	Chr18: 24.676883	-0.432	67	0.00022	0	0	1
10378754	116972	11720	Fam57a	family with sequer	Chr11: 76.202056	7.992	7.1	Chr15: 41.788150	0.43195	67	0.00022	0	0	1
10343363			Affy_103433	Affymetrix Mouse	ChrUn: 1.000000	8.811	9.1	Chr10: 53.743148	-0.4319	67	0.00022	0	0	1
10456018	545260	44428	Arsi	arylsulfatase i	Chr18: 60.912240	7.326	11.2	Chr14: 52.130495	0.43169	67	0.00022	0.25439	-0.062	0.8
10470027	18146	32050	Npdc1	neural proliferatio	Chr2: 25.403083	7.983	12.6	Chr17: 3.227818	0.43169	67	0.00022	0.26296	-0.093	0.7
10347386	58184	3973	Rqcd1	rcd1 (required for	Chr1: 74.505251	9.802	12.3	Chr11: 83.708433	0.43156	67	0.00022	0.28638	0.407	0
10440166	258775	84578	Olfr196	olfactory receptor	Chr16: 59.167210	4.318	13.3	Chr3: 113.087963	0.43146	67	0.00022	0	0.4667	0
10533474	68948	8328	1500011H22	RIKEN cDNA 150	Chr5: 122.364580	8.541	10.7	Chr19: 14.377717	0.43146	67	0.00022	0	-0.306	0.1
10359961	16589	7801	Uhmk1	U2AF homology m	Chr1: 170.199256	11.06	13.2	Chr4: 19.581204	0.43131	67	0.00022	0.27488	0.2164	0.3
10343838			Affy_103438	Affymetrix Mouse	ChrUn: 1.000000	7.049	11.2	Chr4: 58.363486	-0.4312	67	0.00022	0	0	1
10348489	623503	9291	Prlh	prolactin releasing	Chr1: 90.953105	8.177	14	Chr18: 82.377768	-0.4312	67	0.00022	0.33975	0	1
10338514			Affy_103385	Affymetrix Mouse	ChrUn: 1.000000	10.39	15.2	ChrX: 139.352577	0.43115	67	0.00022	0	0	1
10456727	69190	69237	Dym	dymeclin (osteoch	Chr18: 75.018766	10.26	10.5	Chr11: 83.708433	0.43096	67	0.00023	0.22583	-0.07	0.7
10512630	29849	84331	Olfr159	olfactory receptor	Chr4: 43.781388	6.892	12	Chr5: 27.285288	-0.4309	67	0.00023	0.15843	-0.229	0.3
10390934	1E+08	110096	Gm11563	predicted gene 11	Chr11: 99.658420	9.151	11.4	Chr7: 39.894396	-0.4309	67	0.00023	0	0	1
10365428	74007	72536	Btbd11	BTB (POZ) domai	Chr10: 85.386814	7.995	30.8	Chr10: 86.587551	0.4309	67	0.00023	0	0.0929	0.7
10340241			Affy_103402	Affymetrix Mouse	ChrUn: 1.000000	9.972	17.7	Chr7: 36.716982	0.43083	67	0.00023	0	0	1
10451033	210510	19364	Tdrd6	tudor domain cont	Chr17: 43.615339	6.238	17.6	Chr12: 86.105698	0.43071	67	0.00023	0.14568	-0.151	0.5
10430280			Affy_104302	Affymetrix Mouse	Chr15: 77.993171	8.271	11.9	Chr5: 143.159090	-0.4306	67	0.00023	0	0	1
10338804			Affy_103388	Affymetrix Mouse	ChrUn: 1.000000	11.69	8.9	Chr14: 70.695506	-0.4305	67	0.00023	0	0	1
10415574	12453	4979	Ccni	cyclin I	Chr5: 57.093011	12.02	11	Chr4: 47.699478	0.43053	67	0.00023	0.23085	0.3142	0.1
10340374			Affy_103403	Affymetrix Mouse	ChrUn: 1.000000	6.868	15.9	Chr17: 12.315221	-0.4305	67	0.00023	0	0	1
10422225			Affy_104222	Affymetrix Mouse	Chr14: 105.276879	5.06	11.3	Chr10: 53.743148	0.43041	67	0.00023	0	0	1
10514325	319146	45671	Ifnz	interferon zeta	Chr4: 88.758171	7.899	10.1	Chr3: 144.666385	-0.4304	67	0.00023	0.25853	-0.407	0
10376596	66771	5971	C17orf39	human chromosor	Chr11: 60.417303	9.568	7.5	ChrX: 9.334336	0.4302	67	0.00023	0	0	1
10449598	71138		Tmem217	transmembrane pr	Chr17: 29.526160	8.214	9.9	ChrX: 136.048006	-0.4302	67	0.00023	0	0	1
10466344			Affy_104663	Affymetrix Mouse	Chr19: 13.078821	7.056	17.4	ChrX: 136.260360	-0.4301	67	0.00023	0	0	1
10596960	22040	7982	Trex1	three prime repair	Chr9: 109.057932	8.699	13.7	Chr13: 51.479103	0.43012	67	0.00023	0.33031	-0.327	0.1
10480027	381990	10837	Zbtb2	zinc finger and BT	Chr2: 11.098867	8.725	13.3	Chr9: 95.329897	0.4301	67	0.00023	0.16055	0.299	0.1
10586128			Affy_105861	Affymetrix Mouse	Chr9: 63.442319	4.79	7.9	ChrX: 21.061933	0.43006	67	0.00023	0	0	1
10405287	67044	32648	Higd2a	HIG1 domain fami	Chr13: 54.590231	11.31	10.4	ChrX: 9.334336	0.43005	67	0.00023	0.17954	0.3524	0.1
10407274			mir-449c	Affymetrix Mouse	Chr13: 113.035983	6.798	12.6	ChrX: 9.334336	-0.43	67	0.00023	0	0	1
10342980			Affy_103429	Affymetrix Mouse	ChrUn: 1.000000	8.929	10.4	Chr18: 24.676883	-0.43	67	0.00023	0	0	1
10390103	18604	68265	Pdk2	pyruvate dehydrog	Chr11: 95.026258	8.573	12.9	Chr9: 10.573030	0.42981	67	0.00024	0.31115	-0.069	0.7
10354368	12832	20119	Col5a2	collagen, type V, a	Chr1: 45.429386	10.08	11.5	Chr7: 36.955819	-0.4298	67	0.00024	0.25163	0.0159	0.9
10393685			Mir338	Affymetrix Mouse	Chr11: 120.014765	7.616	11.3	Chr9: 97.321105	-0.4297	67	0.00024	0	0	1
10471519	30933	25260	Tor2a	torsin family 2, me	Chr2: 32.757260	9.344	9.9	Chr4: 29.260447	0.42964	67	0.00024	0.23212	0.4869	0
10364696	66043	37514	Atp5d	ATP synthase, H+	Chr10: 80.142365	11.73	10.2	ChrX: 37.500000	0.42959	67	0.00024	0.23614	0.3142	0.1
10551554	71984	6073	Sars2	seryl-aminoacyl-tF	Chr7: 28.741990	8.686	10	Chr13: 91.471415	0.42947	67	0.00024	0.23029	-0.117	0.6
10448030	664953		Gm7423	predicted gene 74	Chr17: 15.321429	8.471	11.8	Chr4: 58.363486	0.42934	67	0.00024	0	0	1
10364814	56214	10476	Scamp4	secretory carrier n	Chr10: 80.602880	10.18	9.5	Chr4: 16.446894	0.4293	67	0.00024	0.14132	0.7449	0
10342846			Affy_103428	Affymetrix Mouse	ChrUn: 1.000000	7.984	12.8	Chr2: 158.740779	-0.429	67	0.00024	0	0	1
10409345	74325	37532	Cltb	clathrin, light poly	Chr13: 54.592939	9.185	10.4	Chr17: 24.200704	0.42893	67	0.00024	0.17155	-0.06	0.8
10383708	193670	34298	Rnf185	ring finger protein	Chr11: 3.415982	9.068	9.8	Chr9: 13.430542	0.4289	67	0.00024	0	0.223	0.3
10574488	382051	36388	Pdp2	pyruvate dehyroge	Chr8: 104.591468	8.116	12.2	ChrX: 10.699902	0.4289	67	0.00024	0	0	1
10360185			Affy_103601	Affymetrix Mouse	Chr1: 171.909037	11.6	12.3	Chr7: 36.760233	-0.4287	67	0.00025	0	0	1
10514708	23919	48350	Insl5	insulin-like 5	Chr4: 103.017872	6.752	12	Chr1: 84.722076	-0.4287	67	0.00025	0.34641	-0.021	0.9
10390939	69464	87041	Krtap4-13	keratin associated	Chr11: 99.798186	8.036	10.6	Chr5: 143.159090	-0.4286	67	0.00025	0	0	1
10367422	66118	41628	Sarnp	SAP domain conta	Chr10: 128.821919	10.5	9.3	Chr18: 9.489146	0.4286	67	0.00025	0	0	1
10471715	67871	12203	Mrrf	mitochondrial ribo	Chr2: 36.136654	9.368	12.3	Chr10: 53.743148	0.42849	67	0.00025	0	-0.413	0
10417226			Affy_104172	Affymetrix Mouse	ChrUn: 1.000000	6.667	9.3	Chr4: 22.550457	-0.4285	67	0.00025	0	0	1
10605465	19108	55868	Prkx	protein kinase, X-l	ChrX: 77.762023	9.945	11.5	Chr18: 82.377768	0.42847	67	0.00025	0.27523	0.2095	0.3
10464974	319322	6678	Sf3b2	splicing factor 3b,	Chr19: 5.273932	10.26	20.6	Chr7: 36.716982	0.42846	67	0.00025	0.21503	-0.293	0.1
10468970	18686		Phxr1	per-hexamer repe	Chr2: 3.431865	8.37	10.1	Chr14: 64.705891	-0.4283	67	0.00025	0.10828	0	1
10343374			Affy_103433	Affymetrix Mouse	ChrUn: 1.000000	7.463	10.8	Chr8: 115.700700	0.42828	67	0.00025	0	0	1
10474683			mir-674	Affymetrix Mouse	Chr2: 117.185127	8.601	9.5	Chr13: 92.688454	-0.4283	67	0.00025	0	0	1
10339613			Affy_103396	Affymetrix Mouse	ChrUn: 1.000000	9.665	9.2	Chr14: 70.695506	-0.4282	67	0.00025	0	0	1
10355958	66589	81888	Ube2v1	ubiquitin-conjugat	Chr1: 78.967751	10.7	12.8	Chr14: 49.407504	0.42819	67	0.00025	0.23719	-0.513	0
10465244	72289		Malat1	metastasis associ	Chr19: 5.800397	12.98	9.1	Chr9: 74.557367	-0.428	67	0.00025	0.32765	0	1
10484685	258654	17331	Olfr1135	olfactory receptor	Chr2: 87.671433	5.226	16.6	Chr18: 24.442754	0.428	67	0.00025	0	0.0678	0.7
10368473			Affy_103684	Affymetrix Mouse	Chr10: 28.214039	7.441	9.8	Chr3: 148.808672	-0.4279	67	0.00025	0	0	1
10492021	50706	4730	Postn	periostin, osteobla	Chr3: 54.361125	8.21	11.3	Chr13: 115.551768	0.42766	67	0.00026	0.42849	0.3275	0.1
10507238	230654	4645	Lrrc41	leucine rich repea	Chr4: 116.075409	9.324	8.4	ChrX: 9.334336	0.42764	67	0.00026	0.12145	0.1953	0.3
10387014	26398	48159	Map2k4	mitogen-activated	Chr11: 65.688244	9.939	11	Chr11: 83.708433	0.42759	67	0.00026	0.3635	0.1113	0.6
10604867	723939		Mir471	microRNA 471 (no	ChrX: 66.792595	4.352	8.8	Chr17: 24.200704	0.42759	67	0.00026	0.15834	0	1
10562942	75613	12614	Med25	mediator of RNA p	Chr7: 44.878147	9.436	11.1	Chr19: 8.707699	0.42752	67	0.00026	0.29153	0.1333	0.5
10568131	67278	11563	2900092E17	RIKEN cDNA 290	Chr7: 127.015051	10.42	9.9	Chr13: 92.688454	0.42749	67	0.00026	0.22963	0	1
10509555			Affy_105095	Affymetrix Mouse	Chr4: 138.315328	8.409	10.3	Chr3: 65.670861	-0.4273	67	0.00026	0	0	1
10420383	105611	12061	AU040096	expressed sequer	Chr14: 57.417499	6.44	9	Chr7: 48.977065	-0.4273	67	0.00026	0	0	1
10566192	259113	64962	Olfr577	olfactory receptor	Chr7: 102.973052	6.52	9.4	Chr13: 98.866916	-0.4272	67	0.00026	0	0.4312	0
10494208	75007	32409	Fam63a	family with sequer	Chr3: 95.281845	8.791	11.4	Chr9: 94.904747	0.42717	67	0.00026	0.21926	0	1
10465209	17826	18749	Mtvr2	mammary tumor v	Chr19: 5.728087	9.95	9.3	Chr19: 7.263405	0.42715	67	0.00026	0.25785	-0.075	0.7
10465314	12333	3800	Capn1	calpain 1	Chr19: 5.988545	9.96	12.6	Chr8: 94.374289	0.42714	67	0.00026	0.34693	0.3025	0.1
10433207			Affy_104332	Affymetrix Mouse	Chr16: 3.763745	6.646	13.6	Chr7: 4.844959	-0.427	67	0.00026	0	0	1
10576088	195209	18937	Gm22	predicted gene 22	Chr8: 122.269569	7.605	10.5	Chr7: 44.328346	-0.4269	67	0.00026	0.20927	-0.083	0.7
10529584	17160	7411	Man2b2	mannosidase 2, al	Chr5: 36.806885	9.442	11.8	Chr9: 10.573030	0.42692	67	0.00026	0.18678	0.1616	0.4
10517116	20111	55703	Rps6ka1	ribosomal protein	Chr4: 133.847294	10.56	19.1	Chr4: 132.619876	0.42687	67	0.00026	0.35586	0.5378	0
10404004	632793	110880	Vmn1r204	vomeronasal 1 rec	Chr13: 22.556201	6.954	10.6	Chr3: 146.631087	-0.4268	67	0.00026	0	0	1
10450746	67676	41592	Rpp21	ribonuclease P 21	Chr17: 36.255645	8.41	14.1	Chr17: 4.257391	0.42673	67	0.00027	0.15565	0.4167	0
10405427	66494	40859	Prelid1	PRELI domain cor	Chr13: 55.320500	12.26	13	ChrX: 9.334336	0.4267	67	0.00027	0.28677	0.4119	0
10397179	105000	34623	Dnalc1	dynein, axonemal,	Chr12: 84.114371	6.536	12.8	ChrX: 9.334336	0.42663	67	0.00027	0.18516	-0.092	0.7
10524436	100756	32789	Usp30	ubiquitin specific p	Chr5: 114.100333	8.632	11.2	Chr3: 148.808672	0.42656	67	0.00027	0.11793	0.2202	0.3
10342721			Affy_103427	Affymetrix Mouse	ChrUn: 1.000000	8.074	12.3	ChrX: 9.334336	-0.4266	67	0.00027	0	0	1
10424823	20104	85949	Rps6	ribosomal protein	Chr15: 76.337574	13.92	11.8	Chr7: 36.620249	-0.4265	67	0.00027	0.31507	-0.135	0.5

10558655	18345	110491	Olfr46	olfactory receptor	Chr7: 140.539169	6.88	10.8	Chr8: 95.747331	-0.4264	67	0.00027	0	0.2903	0.2
10548957	114875	23815	Plcz1	phospholipase C,	Chr6: 139.989722	5.575	12.8	Chr16: 6.003513	0.42636	67	0.00027	0.29926	-0.225	0.3
10426042	223752	18199	Gramd4	GRAM domain co	Chr15: 86.057707	9.776	15.1	Chr6: 72.564437	0.42624	67	0.00027	0	0	1
10354765	632964		Gm7098	predicted gene 70	Chr1: 55.370013	5.118	8.9	ChrX: 9.334336	0.42619	67	0.00027	0	0	1
10471486	13805	92	Eng	endoglin	Chr2: 32.646595	10.34	12.5	Chr7: 37.923912	0.42619	67	0.00027	0.39732	-0.035	0.9
10443463	12575	333	Cdkn1a	cyclin-dependent	Chr17: 29.093775	7.936	14	Chr14: 54.368093	0.42616	67	0.00027	0.32445	0.3437	0.1
10355954	269211		BC035947	cDNA sequence B	Chr1: 78.497032	7.029	9.5	Chr13: 92.688454	-0.4262	67	0.00027	0	0.4058	0
10538558	171194		Vmn1r4	vomeronasal 1 re	Chr6: 56.956513	4.671	11.5	Chr18: 54.614840	0.42602	67	0.00027	0	0	1
10550076	21849	21175	Trim28	tripartite motif-con	Chr7: 13.024152	11.12	12	Chr7: 36.716982	0.42602	67	0.00027	0.34508	0.1439	0.5
10513158	545622		Ptpn3	protein tyrosine ph	Chr4: 57.225506	7.263	11.3	Chr8: 94.374289	0.42595	67	0.00027	0.31715	0.1222	0.6
10478022	70470	41426	Rprd1b	regulation of nucle	Chr2: 158.028495	9.792	9.5	Chr11: 83.708433	0.42586	67	0.00027	0.23114	0	1
10355456	381269	9954	Mreg	melanoregulin	Chr1: 72.159233	8.474	13.5	Chr15: 68.830704	0.42582	67	0.00027	0.22555	-0.144	0.5
10518069	27984	32580	Efhd2	EF hand domain c	Chr4: 141.858142	10.87	9.4	Chr19: 8.707699	0.42558	67	0.00028	0.29137	0.5391	0
10381250	103733	833	Tubg1	tubulin, gamma 1	Chr11: 101.120131	9.707	13.9	Chr4: 132.539038	0.42539	67	0.00028	0.27323	-0.378	0.1
10408610	22151	68156	Tubb2a	tubulin, beta 2A	Chr13: 34.074278	8.587	12.8	Chr14: 70.695506	0.42521	67	0.00028	0.31284	0.0248	0.9
10444719	224727	3409	Bat3	HLA-B-associated	Chr17: 35.135242	10.4	17.7	Chr11: 83.708433	0.42515	67	0.00028	0.35259	-0.042	0.8
10608557	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 14.657735	4.758	11.8	ChrX: 161.585623	0.42506	67	0.00028	0.21707	-0.014	0.9
10514331	319146	45671	Ifnz	interferon zeta	Chr4: 88.774321	7.88	11.1	Chr3: 144.666385	-0.425	67	0.00028	0.25853	-0.407	0
10465625	107260	9772	Otub1	OTU domain, ubic	Chr19: 7.198206	9.899	8	Chr17: 3.227818	0.42493	67	0.00028	0.23414	-0.052	0.8
10342447			Affy_103424	Affymetrix Mouse	ChrUn: 1.000000	8.693	11.7	Chr7: 35.152978	0.42491	67	0.00028	0	0	1
10567522	381917	19674	Dnahc3	dynein, axonemal,	Chr7: 120.090576	7.42	8.7	Chr18: 24.676883	-0.4248	67	0.00029	0	0.1143	0.6
10462100	66118	41628	Sarnp	SAP domain conta	Chr19: 23.675848	10.69	7.8	ChrX: 9.334336	0.4248	67	0.00029	0	0	1
10343976			Affy_103439	Affymetrix Mouse	ChrUn: 1.000000	7.873	9.8	Chr18: 70.123703	-0.4248	67	0.00029	0	0	1
10404965	218215	27092	Rnf144b	ring finger protein	Chr13: 47.122720	9.411	7.4	Chr18: 76.660819	0.42478	67	0.00029	0.19892	0	1
10545026	171197	74372	Vmn1r23	vomeronasal 1 re	Chr6: 57.925883	4.16	12.2	ChrX: 10.699902	0.42477	67	0.00029	0	0	1
10478983	66404	9501	2410001C21	RIKEN cDNA 241	Chr2: 172.440578	10.05	9.2	Chr18: 49.286328	0.42461	67	0.00029	0	0.1989	0.3
10579703	27967	4656	Cherp	calcium homeosta	Chr8: 72.460483	9.658	22.2	Chr8: 57.667032	0.42457	67	0.00029	0.18055	0.0005	1
10342704			Affy_103427	Affymetrix Mouse	ChrUn: 1.000000	8.505	12.5	Chr8: 117.545014	-0.4245	67	0.00029	0	0	1
10380830	68127		B230217C12	RIKEN cDNA B23	Chr11: 97.841293	7.193	8.1	Chr7: 111.680092	0.42452	67	0.00029	0	-0.375	0.1
10404008	171249	110880	Vmn1r213	vomeronasal 1 re	Chr13: 23.011249	6.761	8	Chr3: 144.672147	-0.4244	67	0.00029	0	0	1
10569890	108909	11268	Aida	axin interactor, do	Chr8: 4.087493	10.98	11.5	ChrX: 10.699902	0.42429	67	0.00029	0.14454	0	1
10364435	1E+08		Gm4314	predicted gene 43	Chr10: 79.409240	7.671	10.1	Chr7: 40.170384	-0.4242	67	0.00029	0	0	1
10604904	20104	85949	Rps6	ribosomal protein	ChrX: 69.605496	13.98	11.9	Chr7: 36.620249	-0.4241	67	0.00029	0.31507	-0.135	0.5
10606204			Affy_106062	Affymetrix Mouse	ChrX: 104.001373	4.162	9.4	Chr9: 95.329897	0.42413	67	0.00029	0	0	1
10461012	67674	41132	Trmt112	tRNA methyltransf	Chr19: 6.909698	9.145	10.8	Chr14: 72.300282	0.42398	67	0.00029	0.20748	-0.358	0.1
10553401	1E+08		F830223B06	RIKEN cDNA F83	Chr7: 49.599293	7.615	9.7	Chr13: 92.688454	-0.424	67	0.00029	0	0	1
10544497	21357	7562	Tarbp2	TAR (HIV) RNA bi	Chr6: 47.432120	7.971	8.7	Chr7: 70.848220	0.42396	67	0.00029	0.23449	0.0499	0.8
10603807	723828		Mir222	microRNA 222 (ca	ChrX: 19.146893	6.303	10.1	Chr16: 97.368149	-0.4238	67	0.0003	0.33299	0	1
10503019	75924		4930566N20	RIKEN cDNA 493	Chr3: 157.208331	4.379	9.5	Chr4: 127.947911	0.42379	67	0.0003	0	0.3213	0.1
10596637	102626	55836	Mapkapk3	mitogen-activated	Chr9: 107.254927	9.754	8.6	Chr9: 97.359333	0.42378	67	0.0003	0.31214	0.3589	0.1
10582642	102162	8676	Taf5l	TAF5-like RNA po	Chr8: 123.996310	8.596	16.5	Chr19: 23.844199	0.42376	67	0.0003	0	0.2426	0.2
10363563	73132	21858	Slc25a16	solute carrier fami	Chr10: 62.920633	9.044	14	Chr8: 117.545014	0.42354	67	0.0003	0	0.0801	0.7
10449303	12018	917	Bak1	BCL2-antagonist/k	Chr17: 27.019810	9.401	17.3	Chr19: 23.844199	0.42347	67	0.0003	0.31693	0.5057	0
10465638	70999	41588	Naa40	N(alpha)-acetyltra	Chr19: 7.225673	9.585	10.8	Chr3: 28.140548	0.42344	67	0.0003	0.18288	0	1
10499168	170643	10089	Kirrel	kin of IRRE like (D	Chr3: 87.082812	8.573	11.2	Chr7: 37.923912	0.42339	67	0.0003	0.25458	-0.416	0
10471677	69601	13058	Dab2ip	disabled homolog	Chr2: 35.558583	8.552	10.3	Chr19: 46.582509	0.42334	67	0.0003	0.35607	0.0565	0.8
10338561			Affy_103385	Affymetrix Mouse	ChrUn: 1.000000	9.521	11	Chr11: 83.708433	-0.4233	67	0.0003	0	0	1
10460765	66508	9909	2400001E08	RIKEN cDNA 240	Chr19: 6.152715	8.916	13.2	Chr18: 28.296684	0.42327	67	0.0003	0.24969	0.1052	0.6
10341071			Affy_103410	Affymetrix Mouse	ChrUn: 1.000000	6.47	9.9	Chr13: 51.479103	-0.4231	67	0.0003	0	0	1
10564631	108116	40862	Slco3a1	solute carrier orga	Chr7: 74.275418	9.383	11.5	Chr4: 110.201890	0.423	67	0.00031	0.29339	-0.014	0.9
10343205			Affy_103432	Affymetrix Mouse	ChrUn: 1.000000	4.116	8.8	Chr9: 97.359333	0.42293	67	0.00031	0	0	1
10604612			mir-503	Affymetrix Mouse	ChrX: 53.053984	7.196	11.9	Chr18: 24.676883	-0.4229	67	0.00031	0	0	1
10521174	19822	37711	Rnf4	ring finger protein	Chr5: 34.336390	11.67	12.3	Chr17: 68.799857	0.42289	67	0.00031	0.30145	-0.321	0.1
10608492	380994	86036	LOC380994		ChrY: 7.153213	5.279	14.4	Chr11: 33.490349	0.42286	67	0.00031	0	0.3428	0.1
10555118	18479	1936	Pak1	p21 protein (Cdc4	Chr7: 97.842939	9.062	13	Chr7: 111.674828	0.42284	67	0.00031	0.39882	0.2328	0.3
10408249			Affy_104082	Affymetrix Mouse	Chr13: 23.803571	8.172	10	Chr18: 82.377768	-0.4228	67	0.00031	0	0	1
10342094			Affy_103420	Affymetrix Mouse	ChrUn: 1.000000	8.021	8.1	Chr8: 118.380694	-0.4227	67	0.00031	0	0	1
10341385			Affy_103413	Affymetrix Mouse	ChrUn: 1.000000	9.567	10.7	Chr14: 70.695506	-0.4227	67	0.00031	0	0	1
10473643	257665	103804	Olfr1506	olfactory receptor	Chr2: 90.324197	6.45	10	Chr3: 145.238032	-0.4226	67	0.00031	0	0.3527	0.1
10484875	257665	103804	Olfr1506	olfactory receptor	Chr2: 90.221567	6.45	10	Chr3: 145.238032	-0.4226	67	0.00031	0	0.3527	0.1
10341585			Affy_103415	Affymetrix Mouse	ChrUn: 1.000000	7.347	11.6	Chr8: 108.767084	-0.4226	67	0.00031	0	0	1
10353545	68002	32661	Sdhaf4	succinate dehydro	Chr1: 23.995944	7.801	7.5	Chr1: 23.152100	0.42252	67	0.00031	0.20477	0	1
10338908			Affy_103389	Affymetrix Mouse	ChrUn: 1.000000	9.993	11.5	Chr9: 94.905865	-0.4225	67	0.00031	0	0	1
10340408			Affy_103404	Affymetrix Mouse	ChrUn: 1.000000	9.094	8.2	Chr6: 32.610603	-0.4225	67	0.00031	0	0	1
10576524	244666	32764	Sprtn	SprT-like N-termin	Chr8: 124.898158	9.027	11.8	Chr11: 89.612498	0.42245	67	0.00031	0	0	1
10417286			Affy_104172	Affymetrix Mouse	ChrUn: 1.000000	6.986	9.2	Chr8: 95.747331	-0.4224	67	0.00031	0	0	1
10465354	68505	34675	C11orf2	protein fat-free ho	Chr19: 6.068115	9.157	9	Chr2: 69.333658	0.42243	67	0.00031	0	0	1
10602173	434858		Gm5643	predicted gene 56	ChrX: 142.297577	12.46	11.9	Chr13: 89.422557	-0.4223	67	0.00031	0	0	1
10451363	20807	31135	Srf	serum response fa	Chr17: 46.546839	9.443	7.1	Chr4: 32.100452	0.42223	67	0.00031	0.31348	-0.156	0.4
10599886			Affy_105998	Affymetrix Mouse	ChrX: 66.728338	4.349	10.5	Chr10: 53.743148	0.4222	67	0.00031	0	0	1
10479351	56436	10513	Adrm1	adhesion regulatir	Chr2: 180.171588	10.47	11.2	Chr4: 132.539038	0.4222	67	0.00031	0.26887	0.1143	0.6
10339215			Affy_103392	Affymetrix Mouse	ChrUn: 1.000000	8.828	9.6	Chr14: 72.300282	-0.4221	67	0.00032	0	0	1
10602068	23947	8028	Mid2	midline 2	ChrX: 140.664956	8.121	9.6	Chr5: 137.125241	0.42194	67	0.00032	0.1676	0.3021	0.1
10473584			Affy_104735	Affymetrix Mouse	Chr2: 88.043771	10.74	8.1	Chr1: 94.269488	-0.4219	67	0.00032	0	0	1
10527694	381694	14978	B3galtl	beta 1,3-galactosy	Chr5: 149.678257	8.853	12	Chr17: 21.686210	0.42191	67	0.00032	0.17373	0.1244	0.5
10547674	56619	22809	Clec4e	C-type lectin doma	Chr6: 123.385262	5.492	10.8	Chr18: 46.275839	-0.4219	67	0.00032	0.31283	-0.135	0.5
10547682	546913	84037	Vmn2r22	vomeronasal 2, re	Chr6: 123.492508	5.492	10.8	Chr18: 46.275839	-0.4219	67	0.00032	0	0	1
10547684	546913	84037	Vmn2r22	vomeronasal 2, re	Chr6: 123.609758	5.492	10.8	Chr18: 46.275839	-0.4219	67	0.00032	0	0	1
10397332	217715	6507	Eif2b2	eukaryotic transla	Chr12: 85.219481	9.955	11.3	Chr14: 64.705891	0.42172	67	0.00032	0	0.1029	0.6
10581181	71609	2807	Tradd	TNFRSF1A-assoc	Chr8: 105.258286	9.456	22.2	ChrX: 9.334336	0.42153	67	0.00032	0.27598	0.091	0.7
10425049	71898	77567	Apol9b	apolipoprotein L 9	Chr15: 77.729072	7.595	15.5	Chr2: 72.401799	0.42152	67	0.00032	0.17469	-0.009	1
10342198			Affy_103421	Affymetrix Mouse	ChrUn: 1.000000	10.04	9.8	Chr15: 25.732086	0.42138	67	0.00032	0	0	1
10352119	78825	56741	Pppde1	PPPDE peptidase	Chr1: 178.187710	9.114	10.1	Chr4: 5.599068	0.42138	67	0.00032	0.30582	0	1
10608685			Affy_106086	Affymetrix Mouse	ChrUn: 1.000000	10.81	9.5	Chr10: 121.92773	0.42138	67	0.00032	0	0	1
10599654	72865	121953	Cxx1c	CAAX box 1 homo	ChrX: 53.607922	9.196	13.7	Chr18: 82.377768	0.42136	67	0.00032	0	-0.47	0
10388018	216877	56235	Dhx33	DEAH (Asp-Glu-A	Chr11: 70.984091	8.912	11.1	Chr11: 83.708433	0.42132	67	0.00033	0.21786	-0.3	0.1
10419426	258487	17270	Olfr722	olfactory receptor	Chr14: 49.894258	4.597	15.3	Chr11: 36.820136	0.42127	67	0.00033	0	0.1786	0.4
10469035	109079	56558	Sephs1	selenophosphate	Chr2: 4.881564	9.912	9.6	Chr5: 135.879195	0.42121	67	0.00033	0.15329	-0.028	0.9

10413304	11843	55593	Arf4	ADP-ribosylation f	Chr14: 26.638197	11.49	12.3	ChrX: 139.352577	0.4212	67	0.00033	0.27313	0.003	1
10341665			Affy_103416	Affymetrix Mouse	ChrUn: 1.000000	7.702	10.4	Chr14: 72.782427	-0.4212	67	0.00033	0	0	1
10493409	24045	4164	Scamp3	secretory carrier n	Chr3: 89.177490	10.68	11.4	Chr10: 102.115019	0.42111	67	0.00033	0.19313	0.3537	0.1
10533327	17165	69077	Mapkapk5	MAP kinase-activa	Chr5: 121.525051	9.56	18	ChrX: 9.334336	0.42104	67	0.00033	0.32519	0.318	0.1
10504047	67615	3210	Ube2r2	ubiquitin-conjugat	Chr4: 41.136016	10.95	15	Chr19: 7.273188	0.421	67	0.00033	0.11235	0.2078	0.3
10340685			Affy_103406	Affymetrix Mouse	ChrUn: 1.000000	8.593	9.4	Chr7: 31.360167	-0.421	67	0.00033	0	0	1
10381849	70894	18304	Efcab3	EF-hand calcium l	Chr11: 105.092221	5.561	13.2	Chr11: 35.687788	0.42098	67	0.00033	0	-0.198	0.3
10483766			Affy_104837	predicted pseudog	Chr2: 74.000479	6.804	10	Chr4: 28.322409	-0.4209	67	0.00033	0	0	1
10401128	17187	1786	Max	Max protein	Chr12: 76.937269	10.53	13.5	ChrX: 9.334336	0.42044	67	0.00034	0.34024	0.3285	0.1
10568492	114660		Etos1	ectopic ossificatio	Chr7: 130.770638	6.515	19	Chr4: 19.581204	-0.4204	67	0.00034	0.29466	0.2493	0.2
10460829			mir-194-2	Affymetrix Mouse	Chr19: 6.264643	7.937	16.3	Chr13: 92.688454	-0.4204	67	0.00034	0	0	1
10535807	14254	20463	Flt1	FMS-like tyrosine	Chr5: 147.562196	9.048	13	Chr7: 97.692111	0.42032	67	0.00034	0.35485	-0.098	0.6
10344201			LINE_Affy_1	Affymetrix Mouse	ChrUn: 1.000000	13.38	9.9	Chr13: 56.093344	-0.4201	67	0.00034	0	0	1
10508392	75234	34999	Rnf19b	ring finger protein	Chr4: 129.058409	10.07	10.5	Chr16: 36.506777	0.42	67	0.00034	0.22105	0	1
10497090	433667	41804	Ankrd13c	ankyrin repeat dor	Chr3: 157.947251	10.34	12.1	Chr2: 36.097874	0.41992	67	0.00034	0	0.3609	0.1
10424575			Affy_104245	Affymetrix Mouse	Chr15: 72.070783	4.523	11	Chr15: 97.576270	0.41991	67	0.00034	0	0	1
10479369	14464	32031	Gata5	GATA binding pro	Chr2: 180.332857	7.363	12.6	ChrX: 161.585623	-0.4199	67	0.00034	0.30186	0.349	0.1
10544002	208647	18690	Creb3l2	cAMP responsive	Chr6: 37.331021	8.64	8.5	Chr13: 3.150000	0.4198	67	0.00034	0.23702	0.002	1
10425761			Affy_104257	Affymetrix Mouse	Chr15: 82.408485	10.87	9.1	Chr6: 32.207574	-0.4197	67	0.00035	0	0	1
10450206	54197	56004	Rnf5	ring finger protein	Chr17: 34.601097	10.03	10.3	Chr18: 9.489146	0.41964	67	0.00035	0.24368	0.3234	0.1
10344440			Affy_103444	Affymetrix Mouse	ChrUn: 1.000000	8.2	8.5	Chr1: 47.189877	-0.4196	67	0.00035	0	0	1
10607562	245684	8956	Cnksr2	connector enhanc	ChrX: 157.821568	5.569	10.1	Chr14: 72.300282	0.41959	67	0.00035	0	-0.314	0.1
10395306	75040	19147	Efcab10	EF-hand calcium l	Chr12: 33.394854	5.184	10	Chr17: 24.200704	0.41958	67	0.00035	0	0	1
10570758	246083	86849	Defb13	defensin beta 13	Chr8: 21.946789	6.462	19	Chr7: 36.955819	-0.4194	67	0.00035	0.25427	-0.144	0.5
10338651			Affy_103386	Affymetrix Mouse	ChrUn: 1.000000	9.805	11.4	Chr8: 117.545014	-0.4193	67	0.00035	0	0	1
10458663	22240	20361	Dpysl3	dihydropyrimidina	Chr18: 43.324288	8.91	9.5	ChrX: 10.699902	0.41925	67	0.00035	0.29573	-0.192	0.3
10479988	209361	35415	Taf3	TAF3 RNA polyme	Chr2: 9.915596	9.473	21.5	Chr8: 94.374289	0.41924	67	0.00035	0.2696	-0.304	0.1
10470564	19730	4562	Ralgds	ral guanine nucleo	Chr2: 28.513331	8.58	10.5	Chr17: 5.991544	0.41923	67	0.00035	0.26568	-0.187	0.4
10539933	232223	60033	Txnrd3	thioredoxin reduct	Chr6: 89.643988	7.903	10.5	Chr4: 16.446894	0.41912	67	0.00035	0.19009	0.0515	0.8
10568954	258055	79347	Olfr524	olfactory receptor	Chr7: 140.201812	8.214	8.6	Chr13: 99.942058	-0.419	67	0.00035	0	0.3276	0.1
10382462	26941	3137	Slc9a3r1	solute carrier fami	Chr11: 115.163341	10.39	11.5	Chr11: 35.687788	0.41903	67	0.00035	0.34282	0.6614	0
10417235	1E+08		Gm3264	predicted gene 32	Chr14: 4.870841	6.577	12.4	Chr8: 95.747331	-0.419	67	0.00035	0	0	1
10417315	1E+08		Gm3264	predicted gene 32	Chr14: 4.870841	6.577	12.4	Chr8: 95.747331	-0.419	67	0.00035	0	0	1
10384152	19291	69087	Purb	purine rich elemer	Chr11: 6.474770	9.628	12.6	Chr17: 10.720847	0.41901	67	0.00035	0.28397	0.368	0.1
10466147	69416		1700025F22	RIKEN cDNA 170(	Chr19: 11.139664	4.469	10.6	Chr14: 72.300282	0.41895	67	0.00036	0	-0.011	1
10559987			Affy_105599	Affymetrix Mouse	Chr7: 10.958437	4.013	11.2	Chr8: 28.142057	0.41893	67	0.00036	0	0	1
10341087			Affy_103410	Affymetrix Mouse	ChrUn: 1.000000	10.27	10.9	Chr13: 51.479103	-0.4189	67	0.00036	0	0	1
10354534	69397		1700019A02	RIKEN cDNA 170(	Chr1: 53.158577	5.256	10.8	Chr13: 97.517537	0.41887	67	0.00036	0	0.3048	0.1
10464924	76308	49926	Rab1b	RAB1B, member F	Chr19: 5.099205	10.56	11.9	Chr13: 92.688454	0.41883	67	0.00036	0.09534	-0.345	0.1
10460631	19697	32064	Rela	v-rel reticuloendot	Chr19: 5.637490	9.94	14.6	Chr19: 37.868206	0.41883	67	0.00036	0.33596	-0.187	0.4
10607222	113867	113975	Vmn1r239-p	vomeronasal 1 rec	ChrX: 147.452775	5.541	8.7	Chr4: 18.549080	-0.4188	67	0.00036	0	0	1
10446084	193796	27773	Kdm4b	lysine (K)-specific	Chr17: 56.326092	9.291	11.6	Chr7: 45.140566	0.41877	67	0.00036	0.26389	0	1
10526113	12909	40587	Crcp	calcitonin gene-re	Chr5: 130.029306	9.033	10.7	Chr18: 24.442754	0.41874	67	0.00036	0.3179	0.0509	0.8
10580085	212123	18182	Dcaf15	DDB1 and CUL4 a	Chr8: 84.097072	9.063	12.3	Chr13: 91.471415	0.41859	67	0.00036	0	0	1
10561004	13875	68516	Erf	Ets2 repressor fac	Chr7: 25.242554	8.248	16.4	Chr19: 8.707699	0.41858	67	0.00036	0.32775	-0.147	0.5
10604633	553127	107149	Fam127c	family with sequer	ChrX: 53.642488	9.267	10	Chr14: 72.300282	0.41855	67	0.00036	0.18465	0	1
10578109	108159	4149	Ubxn8	UBX domain prote	Chr8: 33.619586	9.284	9.1	Chr4: 16.446894	0.41852	67	0.00036	0.15493	0	1
10608410	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 20.614570	4.996	11.1	ChrX: 161.585623	0.4184	67	0.00036	0.21707	-0.014	0.9
10606735	67416	12125	Armcx2	armadillo repeat c	ChrX: 134.804145	8.694	10.2	Chr5: 150.597426	0.41835	67	0.00036	0.19146	-0.406	0
10353991	269261		Rpl12	ribosomal protein	Chr1: 36.957930	13.54	12.8	Chr7: 36.760233	-0.4183	67	0.00036	0.09021	0.1196	0.6
10427049	77717	86010	6030408B16	RIKEN cDNA 603(	Chr15: 101.293212	8.2	14	Chr10: 111.16188	-0.4182	67	0.00036	0	-0.384	0.1
10552832	66394	9315	Nosip	nitric oxide syntha	Chr7: 45.062493	8.82	8.7	Chr18: 25.697926	0.41822	67	0.00036	0	-0.141	0.5
10545099			Affy_105450	Affymetrix Mouse	Chr6: 62.633756	8.464	10.6	Chr13: 91.702351	-0.4181	67	0.00037	0	0	1
10525887	76809	50955	Bri3bp	Bri3 binding prote	Chr5: 125.441568	10.09	9.6	Chr6: 4.157748	0.41813	67	0.00037	0	-0.189	0.4
10584416	258800	110524	Olfr905	olfactory receptor	Chr9: 38.472749	5.151	13.1	Chr4: 32.100452	0.41805	67	0.00037	0	0.2448	0.2
10404937			Affy_104049	Affymetrix Mouse	Chr13: 46.980720	6.226	8.2	ChrX: 9.334336	-0.418	67	0.00037	0	0	1
10509246	269593	11545	Luzp1	leucine zipper pro	Chr4: 136.469773	8.344	17.2	Chr5: 137.125241	0.41799	67	0.00037	0.24895	0.3446	0.1
10593060	214552	51110	Cep164	centrosomal prote	Chr9: 45.766951	8.203	13.4	Chr9: 15.889229	0.41779	67	0.00037	0.14048	0.1728	0.4
10382321	16518	20249	Kcnj2	potassium inwardl	Chr11: 111.066164	7.244	17.2	Chr7: 64.892730	0.41776	67	0.00037	0.31518	-0.223	0.3
10512774	107684	2546	Coro2a	coronin, actin binc	Chr4: 46.537559	9.273	7.8	Chr9: 7.785297	0.41763	67	0.00037	0.25746	0.3704	0.1
10574213	20299	7529	Ccl22	chemokine (C-C n	Chr8: 94.745590	7.486	15.1	ChrX: 21.061933	0.41759	67	0.00037	0.38607	-0.094	0.6
10343601			Affy_103436	Affymetrix Mouse	ChrUn: 1.000000	9.037	14.8	ChrX: 9.334336	0.41756	67	0.00037	0	0	1
10568060	78118	52331	4930451I11F	RIKEN cDNA 493(	Chr7: 126.830474	9.418	11.5	Chr5: 146.682242	-0.4175	67	0.00037	0	-0.027	0.9
10474526	99010	27544	Lpcat4	lysophosphatidylc	Chr2: 112.239841	9.031	12.9	Chr19: 8.707699	0.41745	67	0.00038	0.18708	0	1
10597354	18571	22614	Pdcd6ip	programmed cell d	Chr9: 113.653255	11.32	14.1	Chr8: 94.374289	0.41743	67	0.00038	0.37485	0.2767	0.2
10600814	14853	99786	Gspt2	G1 to S phase tra	ChrX: 94.636069	6.987	11.9	Chr15: 83.114394	0.41737	67	0.00038	0.18104	-0.254	0.2
10526145	71667	9951	C7orf42	human chromosor	Chr5: 130.222425	10.67	10.1	Chr2: 69.333658	0.41719	67	0.00038	0	0	1
10392943	15374	7364	Hn1	hematological and	Chr11: 115.497353	10.99	11.9	Chr17: 4.257391	0.41704	67	0.00038	0.27276	0.2528	0.2
10377569	23879	21014	Fxr2	fragile X mental re	Chr11: 69.632971	9.513	11.5	Chr8: 95.747331	0.41699	67	0.00038	0.24487	-0.223	0.3
10341032			Affy_103410	Affymetrix Mouse	ChrUn: 1.000000	7.55	11.4	ChrX: 100.000000	-0.4169	67	0.00038	0	0	1
10537785	387514	74285	Tas2r143	taste receptor, typ	Chr6: 42.400238	6.394	11.3	Chr4: 30.827560	-0.4168	67	0.00038	0	0.326	0.1
10338422			Affy_103384	Affymetrix Mouse	ChrUn: 1.000000	7.545	9.9	Chr14: 49.407504	-0.4167	67	0.00039	0	0	1
10377695	78246	12691	Phf23	PHD finger protein	Chr11: 69.995777	9.227	8.7	ChrX: 9.334336	0.41655	67	0.00039	0.14526	0.0459	0.8
10599747	236798	72131	Gpr112	G protein-coupled	ChrX: 56.872561	6.13	12	Chr3: 65.670861	-0.4165	67	0.00039	0	-0.011	1
10376033	16568	38266	Kif3a	kinesin family mer	Chr11: 53.567393	8.027	9.7	Chr5: 143.032312	0.41636	67	0.00039	0.31148	-0.266	0.2
10348030			Affy_103480	Affymetrix Mouse	Chr1: 86.091118	9.985	8.4	ChrX: 9.334336	-0.4163	67	0.00039	0	0	1
10388902	16859	110970	Lgals9	lectin, galactose b	Chr11: 78.962979	10.94	12.2	Chr2: 63.906770	0.4163	67	0.00039	0.3911	0.1226	0.6
10432411	51812	4622	Mcrs1	microspherule pro	Chr15: 99.242817	9.502	16.6	ChrX: 9.334336	0.41618	67	0.00039	0.21574	0.3093	0.1
10473754	67136	32320	Kbtbd4	kelch repeat and E	Chr2: 90.904784	9.115	8.7	ChrX: 9.334336	0.41604	67	0.0004	0	-0.507	0
10575596			Affy_105755	Affymetrix Mouse	Chr8: 111.194964	8.984	11.8	Chr9: 73.489040	-0.416	67	0.0004	0	0	1
10608673			Affy_106086	Affymetrix Mouse	ChrUn: 1.000000	5.356	12.4	Chr5: 133.911105	0.41594	67	0.0004	0	0	1
10373950	18082	2695	Nipsnap1	4-nitrophenylphos	Chr11: 4.874003	8.969	17.6	Chr13: 93.093865	0.41578	67	0.0004	0.30297	0.2655	0.2
10498657			Affy_104986	Affymetrix Mouse	Chr3: 72.499345	4.24	8.6	Chr18: 24.442754	0.41575	67	0.0004	0	0	1
10338981			Affy_103389	Affymetrix Mouse	ChrUn: 1.000000	7.177	10.9	Chr1: 51.967970	-0.4157	67	0.0004	0	0	1
10344055			Affy_103440	Affymetrix Mouse	ChrUn: 1.000000	12.11	7.3	Chr14: 64.705891	-0.4157	67	0.0004	0	0	1
10503382	12395	3801	Runx1t1	runt-related transc	Chr4: 13.743436	7.581	12.4	Chr4: 16.446894	0.41568	67	0.0004	0.29994	-0.272	0.2
10342294	54391	115690	Rfk	riboflavin kinase (	Chr19: 17.469803	10.89	16.7	Chr19: 22.335961	0.41559	67	0.0004	0.24828	0.4184	0
10408684	68581	4972	Tmed10	transmembrane er	Chr13: 35.990205	11.28	10.9	Chr9: 77.305551	0.41558	67	0.0004	0.23658	-0.292	0.1

10471550	269261		Rpl12	ribosomal protein	Chr2: 32.961726	9.161	10.2	Chr19: 61.221468	-0.4156	67	0.0004	0.09021	0.1196	0.6
10365926	414105		4732465J04	RIKEN cDNA 473	Chr10: 95.792571	6.554	12	Chr12: 102.99301	-0.4155	67	0.0004	0	0.3805	0.1
10342389			Affy_103423	Affymetrix Mouse	ChrUn: 1.000000	8.752	23.6	Chr5: 143.159090	-0.4154	67	0.0004	0	0	1
10361828	17684	4433	Cited2	Cbp/p300-interact	Chr10: 17.723246	10.65	11.2	Chr15: 85.627995	0.41536	67	0.00041	0.35052	0.2274	0.3
10432986	223921	9232	Aaas	achalasia, adreno	Chr15: 102.338256	9.656	16.9	Chr19: 7.273188	0.41529	67	0.00041	0.25362	0.3358	0.1
10608539	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 12.235094	4.997	12.8	Chr17: 9.373070	0.41521	67	0.00041	0.21707	-0.014	0.9
10469936	67122	32649	Nrarp	Notch-regulated a	Chr2: 25.180758	7.728	7.6	Chr2: 16.305711	0.41515	67	0.00041	0.23633	0.3091	0.1
10454286	212307	75027	Mapre2	microtubule-assoc	Chr18: 23.803984	10.21	10.7	ChrX: 131.112816	0.41512	67	0.00041	0.22018	-0.111	0.6
10561516	18036	37631	Nfkbib	nuclear factor of k	Chr7: 28.758251	10.2	10.4	Chr10: 53.743148	0.415	67	0.00041	0.36588	-0.102	0.6
10343041			Affy_103430	Affymetrix Mouse	ChrUn: 1.000000	4.961	8.9	Chr7: 140.875183	0.41499	67	0.00041	0	0	1
10443344			Affy_104433	Affymetrix Mouse	Chr17: 28.287461	8.389	9.8	Chr6: 111.299792	-0.415	67	0.00041	0	0	1
10339180			Affy_103391	Affymetrix Mouse	ChrUn: 1.000000	8.62	8.9	Chr14: 72.300282	-0.415	67	0.00041	0	0	1
10470529	56177	8612	Olfm1	olfactomedin 1	Chr2: 28.192992	8.337	10.8	Chr19: 23.853320	0.41491	67	0.00041	0.29232	-0.264	0.2
10516994	230789	27071	Fam76a	family with sequer	Chr4: 132.900603	9.054	9.5	Chr11: 83.586335	0.4149	67	0.00041	0	0.1677	0.4
10450435	13001	55572	Csnk2b	casein kinase 2, b	Chr17: 35.116195	11.25	11.4	Chr19: 10.043999	0.41489	67	0.00041	0.30678	-0.281	0.2
10408574			Affy_104085	Affymetrix Mouse	Chr13: 32.958740	11.08	8.8	Chr7: 36.760233	-0.4149	67	0.00041	0	0	1
10467372	13097	117948	Cyp2c38	cytochrome P450,	Chr19: 39.389556	4.564	11.5	ChrX: 164.289348	0.41484	67	0.00041	0.21658	0.2252	0.3
10523056			Affy_105230	Affymetrix Mouse	Chr5: 89.537089	4.715	14.7	Chr12: 98.800000	0.41482	67	0.00041	0	0	1
10559359	791284		Gm10152	predicted gene 10	Chr7: 144.763139	6.899	12.2	ChrX: 9.334336	-0.4148	67	0.00041	0	0	1
10340379			Affy_103403	Affymetrix Mouse	ChrUn: 1.000000	10.24	9.4	Chr11: 83.708433	0.41471	67	0.00042	0	0	1
10392410	1E+08		Gm10838	predicted gene 10	Chr11: 107.969448	7.563	10.3	Chr13: 92.688454	-0.4146	67	0.00042	0	0	1
10417446	320333	115686	D830030K20	RIKEN cDNA D83	Chr14: 7.116798	7.015	9.8	Chr4: 16.446894	-0.4146	67	0.00042	0	-0.415	0
10417452	320333	115686	D830030K20	RIKEN cDNA D83	Chr14: 7.185927	7.015	9.8	Chr4: 16.446894	-0.4146	67	0.00042	0	-0.415	0
10370559	70427	18941	Mier2	mesoderm inducti	Chr10: 79.540245	8.444	16	ChrX: 9.334336	0.41457	67	0.00042	0	-0.049	0.8
10386551	14248	11092	Flii	flightless I homolo	Chr11: 60.714143	10.54	11.1	Chr7: 36.716982	0.41453	67	0.00042	0.39332	0.2178	0.3
10578222	50768	4442	Dlc1	deleted in liver ca	Chr8: 36.567745	8.662	12	Chr1: 185.849378	0.41452	67	0.00042	0.30246	-0.453	0
10338800			Affy_103388	Affymetrix Mouse	ChrUn: 1.000000	11.61	9.6	Chr13: 51.479103	-0.4145	67	0.00042	0	0	1
10412503			Affy_104125	Affymetrix Mouse	ChrUn: 1.000000	7.075	8.5	Chr4: 16.446894	-0.4144	67	0.00042	0	0	1
10497250	94212	10198	Pag1	phosphoprotein as	Chr3: 9.970500	7.744	8.3	Chr2: 113.445288	-0.4144	67	0.00042	0.32479	0.0127	1
10528200	229279	62463	Hnrnpa3	heterogeneous nu	Chr5: 16.729993	12.72	14.7	Chr13: 81.107254	-0.4143	67	0.00042	0.2637	0	1
10532753	23790	56537	Coro1c	coronin, actin binc	Chr5: 113.842436	10.96	9	Chr11: 83.708433	0.41427	67	0.00042	0.22009	0.455	0
10385234			Affy_103852	predicted pseudog	Chr11: 36.829198	7.827	8.1	Chr7: 45.140566	-0.4142	67	0.00042	0	0	1
10608212	382301	86036	Sly	Sycp3 like Y-linke	ChrY: 2.038364	5.359	13.8	ChrX: 10.699902	0.41412	67	0.00042	0.21707	-0.014	0.9
10510908			Affy_105109	Affymetrix Mouse	Chr4: 154.273537	8.679	16.6	Chr18: 24.676883	-0.4141	67	0.00042	0	0	1
10578262			mir-383	Affymetrix Mouse	Chr8: 38.252131	8.614	6.9	Chr2: 92.415016	-0.4141	67	0.00042	0	0	1
10593421	68721	11242	1110032A03	RIKEN cDNA 111	Chr9: 50.762828	9.154	21.2	Chr9: 50.367649	0.41396	67	0.00043	0.23231	0.2405	0.2
10488797	59038	5237	Pxmp4	peroxisomal meml	Chr2: 154.587026	9.097	9.4	Chr14: 72.300282	0.41389	67	0.00043	0.26066	0.4753	0
10409076	18676	3934	Phf2	PHD finger protein	Chr13: 48.801750	9.453	18.6	Chr8: 94.374289	0.41385	67	0.00043	0.25071	-0.111	0.6
10339352			Affy_103393	Affymetrix Mouse	ChrUn: 1.000000	8.076	9.9	Chr3: 62.583866	-0.4138	67	0.00043	0	0	1
10452257	66972	11467	Slc25a23	solute carrier fami	Chr17: 57.043711	8.154	10.6	Chr6: 55.170672	0.41377	67	0.00043	0.23995	-0.116	0.6
Funding for The GeneNetwork: NIAAA (U01AA13499, U24AA13513), NIDA, NIMH, and NIAAA (P20-DA21131), NCI MMHCC (U01CA105417), and NCRR (U01NR 105417)														
PLEASE RETAIN DATA SOURCE INFORMATION WHENEVER POSSIBLE														



SupplementaryTable 8

Citations: Please see http://www.genenetwork.org/reference.html

Trait : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Males : 10432032

Database : UTHSC Affy MoGene 1.0 ST Spleen (Dec10) RMA Males

Date : October 08, 2017

Time : 23:44 GMT

Status of data ownership: Possibly unpublished data; please see http://www.genenetwork.org/statusandContact.html for details on sources, ownership, and usage of these data.

Record ID	Gene ID	omologene	Symbol	Description	ation (Chr:	Mean Expr	lax LR	S Location (C	ample rh	Case	mple p(r	Lit Corr	Tissue rho	Tissue p(rho
10432032	22337	37297	Vdr	vitamin D re	Chr15: 97.8	7.1270118	12.9	Chr4: 109.8776	1	67	0	1	1	8.884E-08
10420891	219151	9437	Scara3	scavenger r	Chr14: 65.9	7.7539882	14.3	Chr16: 85.8070	0.58548	67	8E-08	0.22477	-0.087179	0.6709555
10391103	16480	1680	Jup	junction plak	Chr11: 100.	9.8042117	10.9	Chr16: 85.9617	0.58319	67	9E-08	0.35611	0.2123077	0.2963507
10589368	235611	20588	Plxnb1	plexin B1	Chr9: 109.0	8.6219412	10	Chr7: 83.62994	0.56848	67	2E-07	0.30135	-0.334017	0.0957863
10365098	21390	825	Tbxa2r	thromboxane	Chr10: 81.3	9.0981176	10.8	Chr11: 50.3832	0.56753	67	3E-07	0.34841	-0.10906	0.594517
10533131	71772	41528	Plbd2	phospholipa	Chr5: 120.4	9.5413765	8.3	ChrX: 51.9119	0.55503	67	6E-07	0.23751	0	1
10426611	12297	20187	Cacnb3	calcium cha	Chr15: 98.6	8.4922587	10.8	Chr6: 47.02724	0.55057	67	7E-07	0.30565	0.1364103	0.5047461
10518113	71529	16235	Kazn	kazrin, perip	Chr4: 142.1	7.9717059	10.8	Chr17: 63.7115	0.54673	67	9E-07	0.22877	0	1
10544629	101214	40866	Tra2a	transformer	Chr6: 49.24	10.264741	13.7	Chr6: 48.9219(	-0.5439	67	1E-06	0.281	-0.078291	0.7030198
10448262	449521	55809	Zfp213	zinc finger p	Chr17: 23.5	8.2851176	20.4	Chr17: 23.1856	0.54148	67	1E-06	0	-0.25812	0.2022105
10491970	108927	4223	Lhfp	lipoma HMG	Chr3: 53.04	9.5939412	16.4	Chr13: 59.7042	0.53417	67	2E-06	0	-0.239658	0.2372703
10489701	74614	41768	4833422F24	RIKEN cDNA	Chr2: 165.3	7.9001294	21.4	Chr17: 40.7472	0.53343	67	2E-06	0.27287	0.1801709	0.3767772
10398649	74190	41760	1200009I06	RIKEN cDNA	Chr12: 111.	8.7151412	10.8	Chr1: 184.9098	0.53302	67	2E-06	0	0.4092308	0.0388951
10363901	104156	3276	Etv5	ets variant g	Chr10: 71.7	8.7131882	12.5	Chr1: 21.63846	0.52851	67	3E-06	0.35498	-0.2	0.3257519
10500948	80281	36371	Cttnbp2nl	CTTNBP2 N	Chr3: 105.0	8.4649882	14.8	Chr14: 89.5116	0.52651	67	3E-06	0.19957	0.1600274	0.4348588
10352717	381319	41280	Batf3	basic leucin	Chr1: 191.0	8.4671647	10.3	Chr16: 84.7875	0.52602	67	3E-06	0.3338	-0.085128	0.6783069
10526853	80752	56879	Fam20c	family with s	Chr5: 138.7	8.1786471	20.2	Chr11: 53.9207	0.52268	67	3E-06	0.38061	0	1
10430255	239554	11800	Foxred2	FAD-depend	Chr15: 77.9	8.1556941	14.2	Chr7: 111.6800	0.52251	67	4E-06	0	0.0482051	0.815034
10447130	106522	18932	Pkdcc	protein kinas	Chr17: 83.2	8.2665412	17	Chr13: 39.8903	0.52189	67	4E-06	0.22732	0	1
10412921	18074	40575	Nid2	nidogen 2	Chr14: 19.7	8.3412353	12.8	Chr7: 3.078244	0.52129	67	4E-06	0.30685	-0.185641	0.3622541
10460833	13660	81678	Ehd1	EH-domain (	Chr19: 6.27	10.504871	10.7	Chr18: 69.8621	0.5188	67	4E-06	0.28038	0.3668376	0.0660329
10423568	70515		5730407I07	RIKEN cDNA	Chr15: 33.5	6.5746823	11.3	Chr9: 41.23156	0.51784	67	4E-06	0	0.3422222	0.0875371
10510700	100129	18662	Gpr153	G protein-co	Chr4: 152.2	7.9687765	13.1	Chr16: 84.7875	0.51657	67	5E-06	0	-0.206154	0.3108328
10566543	233651	2771	Dchs1	dachsous 1	Chr7: 105.7	7.9923059	15.5	Chr15: 10.0000	0.51547	67	5E-06	0.2266	-0.062564	0.760971
10510286	71890	4624	Mad2l2	MAD2 mitoti	Chr4: 148.1	8.6304823	12	ChrX: 93.3364	0.51538	67	5E-06	0.26252	-0.461197	0.0186991
10568399	21843	87796	Tial1	Tia1 cytotox	Chr7: 128.4	10.155365	9.7	Chr7: 36.76023	-0.5145	67	5E-06	0.37102	-0.027009	0.8963301
10553324	67893	41679	Tmem86a	transmembr	Chr7: 47.05	9.7889647	14.6	Chr17: 75.8810	0.51402	67	5E-06	0	0.1678632	0.4106805
10529485	78558	12697	Htra3	HtrA serine	Chr5: 35.65	8.2238824	10.9	Chr7: 109.9797	0.51396	67	6E-06	0.26313	-0.027009	0.8963301
10380896	13866	3273	Erbb2	erb-b2 recep	Chr11: 98.4	8.2227176	15.1	Chr17: 64.4842	0.51345	67	6E-06	0.30592	0.5952137	0.0016441
10343360			Affy_10343	Affymetrix M	ChrUn: 1.00	7.0295765	10.4	Chr9: 122.0152	-0.5116	67	6E-06	0	0	1
10341823			Affy_10341	Affymetrix M	ChrUn: 1.00	9.9250118	11.9	Chr11: 53.9207	-0.5091	67	7E-06	0	0	1
10344143			Affy_10344	Affymetrix M	ChrUn: 1.00	8.1162471	10.5	Chr1: 10.16299	-0.5089	67	7E-06	0	0	1
10517250	56219	3277	Extl1	exostoses (r	Chr4: 134.3	8.1132941	12.8	Chr16: 36.9466	0.5075	67	8E-06	0.19786	-0.180855	0.3749434
10339308			Affy_10339	Affymetrix M	ChrUn: 1.00	9.1753295	10.3	Chr18: 15.6386	-0.5059	67	8E-06	0	0	1
10545283	12180	7645	Smyd1	SET and MY	Chr6: 71.21	7.0846588	12.4	Chr8: 21.94696	0.50389	67	9E-06	0.32571	-0.243077	0.2304879
10404996	18081	88815	Ninj1	ninjurin 1	Chr13: 49.1	9.9152118	10.6	Chr12: 65.0497	0.50374	67	9E-06	0.34485	-0.196581	0.3342287
10584615	58235	2138	Pvrl1	poliovirus re	Chr9: 43.74	8.3218706	8.3	Chr8: 111.3193	0.50323	67	9E-06	0.24196	0.1692308	0.4068305
10480155	65969	37434	Cubn	cubilin (intri	Chr2: 13.27	6.4212941	7.6	ChrX: 142.9906	0.50316	67	9E-06	0.30963	0.377094	0.0584003
10348858	51800	9632	Bok	BCL2-relate	Chr1: 93.685	8.8460235	11.6	Chr13: 54.8790	0.50254	67	1E-05	0.25884	0.1193162	0.5600479
10493114	18008	31391	Nes	nestin	Chr3: 87.97	6.8914941	10.8	Chr16: 22.0288	0.50148	67	1E-05	0.2795	-0.158291	0.4382021
10343514			Affy_10343	Affymetrix M	ChrUn: 1.00	8.685	12.6	Chr13: 63.7039	-0.5011	67	1E-05	0	0	1
10508651	20970	7965	Sdc3	syndecan 3	Chr4: 130.7	10.675776	9.4	Chr2: 94.28494	0.50086	67	1E-05	0.30058	-0.507692	0.0088811
10451395	74764	12584	Klc4	kinesin light	Chr17: 46.6	8.6200588	10.6	Chr11: 89.7514	0.50062	67	1E-05	0	0.3176068	0.114043
10388389	15248	4740	Hic1	hypermethyl	Chr11: 75.1	8.2835647	10.3	Chr18: 78.8068	0.49868	67	1E-05	0.32382	-0.13641	0.5047461
10579335	66522	9793	Pgpep1	pyroglutamy	Chr8: 70.64	8.7608941	13.8	Chr8: 75.68167	0.4977	67	1E-05	0.18305	0.1350427	0.5090668
10530841	29817	1193	Igfbp7	insulin-like g	Chr5: 77.34	13.085035	20.2	Chr1: 184.9098	0.49638	67	1E-05	0.3742	-0.17265	0.3972957
10534862	18542	1946	Pcolce	procollagen	Chr5: 137.6	10.259847	11.4	ChrX: 51.9119	0.49603	67	1E-05	0.2911	-0.057778	0.7788822
10340422			Affy_10340	Affymetrix M	ChrUn: 1.00	7.208353	12.2	Chr15: 14.3905	-0.4953	67	1E-05	0	0	1
10426999	11482	20058	Acvrl1	activin A rec	Chr15: 101.	9.4596	9.4	Chr1: 10.16299	0.4952	67	1E-05	0.33458	-0.011966	0.9547118
10529752	12020	68168	Nkx3-2	NK3 homeol	Chr5: 41.76	8.2133766	12.2	ChrX: 61.0586(	0.49494	67	1E-05	0.33157	0.1890922	0.3548883
10339362			Affy_10339	Affymetrix M	ChrUn: 1.00	8.3526353	14.9	Chr13: 63.7039	-0.494	67	1E-05	0	0	1
10460603	58859	32339	Efemp2	epidermal gr	Chr19: 5.47	9.7296471	14	Chr13: 63.7039	0.49381	67	1E-05	0.31929	-0.132308	0.5177634
10540855	15465	668	Hrh1	histamine re	Chr6: 114.3	8.1985294	19.9	Chr17: 26.8140	0.49381	67	1E-05	0.3136	-0.347127	0.0823075
10510482	65945	8814	Clstn1	calsyntenin	Chr4: 149.5	9.3214353	9.6	Chr2: 160.3036	0.49337	67	2E-05	0.1933	0.0611966	0.7660765
10477970	20779	21120	Src	Rous sarcor	Chr2: 157.4	8.8603177	10.6	Chr17: 21.6862	0.49335	67	2E-05	0.29343	0.4933333	0.0112872
10517287	230815	69303	Man1c1	mannosidas	Chr4: 134.5	9.147753	9.3	Chr11: 89.7514	0.49332	67	2E-05	0.21423	-0.326496	0.103856
10398240	68519	20931	Eml1	echinoderm	Chr12: 108.	8.3316353	10.1	Chr12: 3.20000	0.4933	67	2E-05	0.18444	-0.326496	0.103856
10386058	20692	31132	Sparc	secreted aci	Chr11: 55.3	12.216071	29.3	Chr11: 56.7168	0.49251	67	2E-05	0.40306	-0.18359	0.3676606
10559687	67441	85975	Isoc2b	isochorisma	Chr7: 4.844	8.3406706	15.8	Chr5: 130.3330	0.49154	67	2E-05	0	0.1076923	0.5991817
10421555	751541		Mir687	microRNA 6	Chr14: 73.2	7.3469177	13	ChrX: 9.334336	-0.4912	67	2E-05	0	0	1
10600936	13641	3263	Efnb1	ephrin B1	ChrX: 99.13	8.7517412	10.2	Chr17: 43.0981	0.49122	67	2E-05	0.26613	0.405812	0.040679
10454782	13653	56394	Egr1	early growth	Chr18: 34.8	8.2741177	10.4	Chr2: 107.1538	0.49036	67	2E-05	0.32585	0.0782906	0.7030198
10390519	72324	10700	Plxdc1	plexin doma	Chr11: 97.9	8.3936	41.5	Chr11: 98.1360	0.48862	67	2E-05	0.28439	-0.286838	0.1551081
10523190	231440	41036	Parm1	prostate and	Chr5: 91.51	8.9384118	15.2	Chr11: 50.3738	0.48842	67	2E-05	0.33693	0	1
10379445	22680	2581	Zfp207	zinc finger p	Chr11: 80.3	10.797177	9.6	ChrX: 9.334336	-0.4877	67	2E-05	0.194	0.1637607	0.4223536
10345058	75712	36341	Tmem14a	transmembr	Chr1: 21.21	7.2919294	9.4	Chr9: 108.9692	0.4876	67	2E-05	0	-0.255385	0.2071637
10347583	13346	56469	Des	desmin	Chr1: 75.36	9.2751529	11.5	Chr13: 39.8903	0.48697	67	2E-05	0.27968	-0.026325	0.8989746
10471844	59126	49379	Nek6	NIMA (never	Chr2: 38.51	8.4939411	10.4	Chr7: 84.70824	0.48683	67	2E-05	0.27078	0.0352137	0.8646906
10491721	24063	4266	Spry1	sprouty hom	Chr3: 37.63	8.0688588	11.9	Chr8: 24.30548	0.48681	67	2E-05	0.36114	-0.173735	0.3959981
10387170	18208	21008	Ntn1	netrin 1	Chr11: 68.2	7.9657765	12.5	Chr4: 156.1009	0.48569	67	2E-05	0.28689	0.26808	0.1854673
10369844	83675	12856	Bicc1	bicaudal C h	Chr10: 70.9	8.705	11.3	Chr17: 7.70539	0.48531	67	2E-05	0.29612	-0.020855	0.9201661
10370510	71709	13195	Syde1	synapse def	Chr10: 78.5	8.1563294	7.9	Chr4: 101.4302	0.48466	67	2E-05	0	-0.094017	0.6466703
10392881	14149	3033	Fdxr	ferredoxin re	Chr11: 115.	8.3901765	9.2	Chr18: 86.5802	0.48427	67	2E-05	0.17108	-0.049573	0.8098445
10451372	71461	43672	Ptk7	PTK7 protei	Chr17: 46.5	8.4410706	8.4	Chr17: 9.27343	0.48346	67	2E-05	0.29701	0.5350427	0.0054783
10471457	20448	7939	St6galnac4	ST6 (alpha-	Chr2: 32.58	9.2325765	10.4	Chr16: 85.8070	0.48305	67	2E-05	0.22959	-0.388034	0.0510441
10581664	76527	12648	Il34	interleukin 3	Chr8: 110.7	8.882247	11.1	Chr17: 7.71337	0.48269	67	3E-05	0.36427	0	1
10567546	12971	1424	Crym	crystallin, m	Chr7: 120.1	7.9772235	9.7	Chr9: 58.87703	0.482	67	3E-05	0.33528	-0.043419	0.8332568
10394471	20969	2252	Sdc1	syndecan 1	Chr12: 8.77	8.6666	22.6	Chr5: 130.3330	0.48179	67	3E-05	0.36673	0.3182906	0.1132338
10583519	15894	168	Icam1	intercellular	Chr9: 21.01	10.034541	13.7	Chr8: 111.3193	0.48117	67	3E-05	0.33016	0.0276923	0.8936868
10339157			Affy_10339	Affymetrix M	ChrUn: 1.00	7.7726	11.2	Chr1: 5.641533	-0.4811	67	3E-05	0	0	1

10341495			Affy_10341	Affymetrix M	ChrUn: 1.00	9.0684471	11.5	Chr11: 53.9207	-0.4806	67	3E-05	0	0	1
10486102	381413	5226	Gpr176	G protein-co	Chr2: 118.2	7.7641647	21.3	Chr2: 117.0003	0.48058	67	3E-05	0	-0.206154	0.3108328
10564713	17304	4334	Mfge8	milk fat glob	Chr7: 79.13	12.528541	14.9	Chr13: 46.9731	0.47909	67	3E-05	0.4137	-0.273846	0.1753223
10533007	75665	18013	Ccdc64	coiled-coil d	Chr5: 115.6	7.8197176	10	Chr7: 85.06891	0.47888	67	3E-05	0.15331	-0.065299	0.75079
10568115	78388	3752	Mvp	major vault p	Chr7: 126.9	9.6043882	11.7	Chr17: 24.2007	0.47802	67	3E-05	0.36793	0.4782906	0.0143716
10602401	14163	3282	Fgd1	FYVE, RhoG	ChrX: 151.0	7.8110471	16.6	Chr8: 21.94696	0.478	67	3E-05	0.25403	-0.022906	0.9122122
10401698	238330	11555	6430527G1	RIKEN cDNA	Chr12: 86.8	8.986047	9.9	Chr16: 36.9466	0.47792	67	3E-05	0.23244	-0.050256	0.8072527
10439527	100043314	18358	Tigit	T cell immur	Chr16: 43.6	8.4932471	15.3	Chr17: 40.7472	0.4773	67	3E-05	0.32519	0	1
10579313	76900	41881	Ssbp4	single strand	Chr8: 70.59	9.4828706	8.2	Chr15: 86.9520	0.47711	67	3E-05	0.17188	-0.072821	0.7230095
10458663	22240	20361	Dpysl3	dihydropyrin	Chr18: 43.3	8.8913882	11.6	Chr16: 97.7181	0.47558	67	4E-05	0.29573	-0.105641	0.6062084
10544199	209773	35238	Dennd2a	DENN/MAD	Chr6: 39.46	8.2557177	11.4	Chr12: 10.0373	0.47503	67	4E-05	0	-0.342906	0.0868751
10371379	77976	8896	Nuak1	NUAK family	Chr10: 84.3	8.3055412	9.1	Chr15: 10.0000	0.47482	67	4E-05	0.29207	-0.419559	0.0328673
10341616			Affy_10341	Affymetrix M	ChrUn: 1.00	8.9512118	12.4	Chr18: 15.6386	-0.4745	67	4E-05	0	0	1
10450103	14979	56588	H2-Ke6	H2-K region	Chr17: 34.0	9.3125765	14.7	Chr16: 84.7875	0.47447	67	4E-05	0.30609	-0.166496	0.4145511
10471474	11636	20135	Ak1	adenylate ki	Chr2: 32.62	8.3207765	12.4	Chr9: 106.0206	0.47361	67	4E-05	0.32242	-0.267692	0.1855235
10342981			Affy_10342	Affymetrix M	ChrUn: 1.00	8.6914706	9.6	Chr18: 9.48914	-0.4736	67	4E-05	0	0	1
10545827	52055	9158	Rab11fip5	RAB11 fami	Chr6: 85.33	8.1841765	12.6	ChrX: 56.1701	0.47351	67	4E-05	0.19728	-0.115897	0.5714344
10527158	14086	48164	Fscn1	fascin homo	Chr5: 142.9	9.4836706	16.2	Chr5: 143.0323	0.47336	67	4E-05	0.37274	-0.454359	0.0207083
10347980	64294	11186	Itm2c	integral mer	Chr1: 85.89	10.623259	11.1	Chr2: 65.86621	0.47323	67	4E-05	0.25359	0	1
10420114	21816	306	Tgm1	transglutami	Chr14: 55.7	9.8129176	18.5	ChrX: 9.33433	0.47318	67	4E-05	0.36528	0.2642735	0.191368
10339407			Affy_10339	Affymetrix M	ChrUn: 1.00	6.0223765	14.2	Chr7: 111.6748	-0.4731	67	4E-05	0	0	1
10570029	244281	34710	Myo16	myosin XVI	Chr8: 10.15	7.313847	18.3	Chr15: 3.97790	0.47294	67	4E-05	0	-0.176752	0.3860254
10548905	13860	3272	Eps8	epidermal gr	Chr6: 137.4	8.8477882	13.6	Chr16: 32.4254	0.47275	67	4E-05	0.30436	0.1993162	0.3274365
10443000	240055	35443	Neurl1B	neuralized h	Chr17: 26.4	7.8918118	9.1	Chr15: 86.9520	0.47271	67	4E-05	0.13818	0	1
10481772	99326	13003	Garnl3	GTPase act	Chr2: 32.98	7.6315647	7.4	Chr16: 85.9617	0.4727	67	4E-05	0	-0.233504	0.2498141
10341386			Affy_10341	Affymetrix M	ChrUn: 1.00	9.123753	10.9	Chr11: 53.9207	-0.4727	67	4E-05	0	0	1
10452295	22153	55952	Tubb4	tubulin, beta	Chr17: 57.0	6.9260117	9.5	Chr8: 24.90743	0.4723	67	4E-05	0.3353	-0.204786	0.3141104
10344572			Affy_10344	Affymetrix M	ChrUn: 1.00	9.3975647	11.9	Chr11: 53.9207	-0.4716	67	4E-05	0	0	1
10338794			Affy_10338	Affymetrix M	ChrUn: 1.00	6.8960588	19.9	Chr12: 88.9103	-0.4712	67	4E-05	0	0	1
10473432	228140	14117	Tnks1bp1	tankyrase 1	Chr2: 85.05	8.8371293	15.8	Chr13: 59.7042	0.47094	67	4E-05	0	0.3987006	0.0436395
10511510	72656	9888	Ints8	integrator co	Chr4: 11.19	9.9162588	12	ChrX: 21.0619	-0.4706	67	4E-05	0	-0.068388	0.7399274
10531370	67111	8686	Naaa	N-acylethan	Chr5: 92.25	11.369588	13	Chr5: 100.0486	0.4705	67	4E-05	0.25475	0	1
10418729	382864	10437	Colq	collagen-like	Chr14: 31.5	8.6551647	18.2	Chr8: 111.3193	0.4703	67	4E-05	0.18978	0.1705983	0.4030011
10453738	14370	40606	Fzd8	frizzled class	Chr18: 9.21	8.5376823	11.4	Chr15: 12.6727	0.47025	67	4E-05	0.24874	-0.199692	0.3280472
10505132	11641	100376	Akap2	A kinase (PI	Chr4: 57.74	7.7522941	9.6	Chr17: 89.4589	0.47006	67	4E-05	0.22648	-0.426129	0.029956
10576610	93742	10489	Pard3	par-3 (partiti	Chr8: 127.0	7.7570823	10.2	ChrX: 9.33433	0.46983	67	5E-05	0.26055	0.0092308	0.9653605
10559782	18349	72037	Olfr5	olfactory rec	Chr7: 6.480	7.1192588	11.5	Chr10: 111.073	0.46964	67	5E-05	0	0.3217094	0.1092522
10450579	12305	68212	Ddr1	discoidin do	Chr17: 35.6	8.9518941	15.2	Chr17: 43.0981	0.46882	67	5E-05	0.42913	0.5183792	0.0066684
10554156	100038347		Fam174b	family with s	Chr7: 73.74	8.6867177	9.7	Chr6: 135.2669	0.46868	67	5E-05	0	0	1
10547869	14789	8401	Leprel2	leprecan-like	Chr6: 124.8	8.4585059	12.4	Chr12: 64.0298	0.46801	67	5E-05	0.24145	-0.126838	0.5353736
10521824	20657	2334	Sod3	superoxide d	Chr5: 52.36	8.199753	11.7	Chr8: 128.3651	0.46796	67	5E-05	0.38922	-0.122051	0.5510149
10430358	72709	12481	C1qtnf6	C1q and tun	Chr15: 78.5	7.8321529	9.2	Chr9: 123.9426	0.46766	67	5E-05	0.21939	0.005812	0.9786794
10416215	94352	1742	Loxl2	lysyl oxidase	Chr14: 69.6	7.8426235	9.6	Chr8: 128.5897	0.46739	67	5E-05	0.37778	0.0994872	0.6274959
10510687	70025	15780	Acot7	acyl-CoA thi	Chr4: 152.1	9.5145765	14.1	Chr5: 130.3330	0.46678	67	5E-05	0.29301	-0.01812	0.9307832
10498024	26570	22684	Slc7a11	solute carrie	Chr3: 49.89	9.4461176	11.9	Chr4: 108.5644	0.4658	67	5E-05	0.38437	-0.071453	0.7280359
10438626	104156	3276	Etv5	ets variant g	Chr16: 22.3	8.3050353	8	Chr13: 40.0387	0.46578	67	5E-05	0.35498	-0.2	0.3257519
10396270	59036	9613	Dact1	dapper hom	Chr12: 71.3	8.6688118	17.1	Chr12: 70.8476	0.46558	67	5E-05	0.27663	-0.464774	0.0167455
10528864	269637		Cnpy1	canopy 1 ho	Chr5: 28.20	7.1931764	16.3	Chr4: 3.390023	0.46541	67	5E-05	0	0.156608	0.4448635
10478594	19025	80163	Ctsa	cathepsin A	Chr2: 164.8	11.290329	13.5	Chr17: 33.1463	0.4653	67	6E-05	0.37887	-0.291624	0.1481031
10518108	214359	9966	Tmem51	transmembr	Chr4: 142.0	8.0658706	10.9	Chr6: 44.03026	0.46462	67	6E-05	0	0.1938462	0.3411068
10450145	16912	2094	Psmb9	proteasome	Chr17: 34.1	11.340765	16.4	Chr17: 40.5711	0.46398	67	6E-05	0.31207	0.0844444	0.6807639
10339126			Affy_10339	Affymetrix M	ChrUn: 1.00	6.7218941	10.3	Chr16: 77.6070	-0.4638	67	6E-05	0	0	1
10438975	268880	17610	AI480653	expressed s	Chr16: 30.9	8.3870588	10.4	Chr17: 75.8810	0.46369	67	6E-05	0	-0.330655	0.0989676
10393364	114886	12706	Cygb	cytoglobin	Chr11: 116.0	9.2256235	10.3	Chr15: 86.9520	0.46357	67	6E-05	0.34132	-0.429744	0.0294705
10495042	71887	23632	Ppm1j	protein phos	Chr3: 104.7	7.6339412	12.6	Chr4: 156.1009	0.46356	67	6E-05	0.18203	-0.247179	0.2225239
10477854	13821		Epb4.1l1	erythrocyte p	Chr2: 156.4	7.9054941	10.2	Chr16: 85.8070	0.4632	67	6E-05	0.23007	0.1699145	0.4049132
10510580	21942	1199	Tnfrsf9	tumor necro	Chr4: 150.9	8.4573059	18.3	Chr17: 75.0660	0.46317	67	6E-05	0.37045	-0.362859	0.0684709
10387890	66102	49694	Cxcl16	chemokine (	Chr11: 70.4	9.0081529	10.7	Chr17: 7.71337	0.46303	67	6E-05	0.40025	0.3525389	0.0773275
10586248	102442	55933	Dennd4a	DENN/MAD	Chr9: 64.87	10.643447	13.2	Chr13: 63.7039	-0.4627	67	6E-05	0	-0.282735	0.1613003
10564849	70420	18805	2610034B18	RIKEN cDNA	Chr7: 79.92	8.309553	9.7	ChrX: 51.9119	0.4622	67	6E-05	0.12239	0.3374359	0.0922801
10343328			Affy_10343	Affymetrix M	ChrUn: 1.00	8.6169765	12.1	Chr17: 26.8140	-0.462	67	6E-05	0	0	1
10370603	382384	16801	Odf3l2	outer dense	Chr10: 79.6	7.0215176	12.8	Chr8: 18.50223	0.46105	67	7E-05	0	0	1
10489569	18830	4536	Pltp	phospholipid	Chr2: 164.8	9.9477412	13	Chr2: 94.28494	0.46057	67	7E-05	0.35266	-0.507692	0.0088811
10368373	77220	14175	Tmem200a	transmembr	Chr10: 25.9	7.7669647	11.5	Chr9: 106.0206	0.46008	67	7E-05	0	0	1
10427026	56149	32442	Grasp	GRP1 (gene	Chr15: 101.1	7.9010235	8.6	Chr16: 21.3236	0.45979	67	7E-05	0.29243	-0.212308	0.2963507
10437639	13731	1089	Emp2	epithelial me	Chr16: 10.2	8.9394235	11.1	Chr17: 7.71337	0.45913	67	7E-05	0.32976	0.0564103	0.7840207
10527936	14362	20750	Fzd1	frizzled class	Chr5: 4.753	10.359153	11.6	ChrX: 48.8950	0.45907	67	7E-05	0.32491	0.1001709	0.6251155
10361055	226841	57005	Vash2	vasohibin 2	Chr1: 190.9	7.1464	13.3	Chr4: 9.257136	0.45897	67	7E-05	0.28445	-0.030427	0.883125
10470027	18146	32050	Npdc1	neural prolif	Chr2: 25.40	7.9733412	9.8	Chr11: 89.6124	0.45882	67	7E-05	0.26296	-0.037265	0.8568111
10576051	14234	21091	Foxc2	forkhead bo	Chr8: 121.1	6.8564706	10.3	Chr4: 9.276716	0.45849	67	7E-05	0.34774	0.057094	0.7814503
10341106			Affy_10341	Affymetrix M	ChrUn: 1.00	7.7196235	12.3	Chr17: 75.8810	-0.458	67	8E-05	0	0	1
10339230			Affy_10339	Affymetrix M	ChrUn: 1.00	9.9976471	10.9	Chr17: 26.8140	-0.4577	67	8E-05	0	0	1
10432540	65970	9484	Lima1	LIM domain	Chr15: 99.7	9.4218706	11.8	Chr17: 7.71337	0.45769	67	8E-05	0.22818	0.4488889	0.0224411
10414417	93834	41431	Peli2	pellino 2	Chr14: 48.1	7.9560471	13.4	Chr9: 108.5006	0.45747	67	8E-05	0.20475	-0.152137	0.4564146
10539111	232086	16378	Tmem150a	transmembr	Chr6: 72.35	8.5431176	10.5	Chr1: 191.9698	0.45728	67	8E-05	0.14779	0	1
10497765	114893	10773	Dcun1d1	DCN1, defe	Chr3: 35.89	10.561341	13	Chr4: 129.5721	-0.4568	67	8E-05	0.26449	0.0393162	0.8489451
10341289			Affy_10341	Affymetrix M	ChrUn: 1.00	9.0891176	14.9	Chr16: 85.9617	0.45618	67	8E-05	0	0	1
10403727	14634	139	Gli3	GLI-Kruppel	Chr13: 15.4	7.0541294	12.5	Chr9: 111.4559	0.45611	67	8E-05	0.28324	-0.009231	0.9653605
10534324	16885	1738	Limk1	LIM-domain	Chr5: 134.6	9.2485177	11.9	Chr17: 7.71337	0.45603	67	8E-05	0.35878	-0.220513	0.2777219
10342557			Affy_10342	Affymetrix M	ChrUn: 1.00	7.3597529	10.2	Chr16: 85.8070	-0.456	67	8E-05	0	0	1
10508376	67525	10071	Trim62	tripartite mo	Chr4: 128.8	7.6350941	11	Chr4: 19.72631	0.4559	67	8E-05	0.24713	0.3764103	0.0588864
10462102	72351	34254	Ptar1	protein pren	Chr19: 23.6	9.4897882	11.5	Chr11: 100.412	-0.4556	67	8E-05	0	0.0974359	0.6346591
10425726	24050	99740	Sept3	septin 3	Chr15: 82.2	7.4632588	12	Chr12: 58.9700	0.45542	67	8E-05	0.23359	-0.308718	0.1249603
10344068			Affy_10344	Affymetrix M	ChrUn: 1.00	7.1698823	10.4	Chr17: 33.1463	-0.4547	67	9E-05	0	0	1
10493203	56700	10562	0610031J06	RIKEN cDNA	Chr3: 88.32	10.267	10.5	Chr13: 46.9731	0.45451	67	9E-05	0.25423	0.4160684	0.0355162
10550605	72205	8125	Eml2	echinoderm	Chr7: 19.18	9.1390588	12.7	Chr1: 3.511204	0.45445	67	9E-05	0	-0.500171	0.010081
10434105	224024	17817	Scarf2	scavenger r	Chr16: 17.7	8.6127765	10.3	Chr16: 84.7875	0.45414	67	9E-05	0.21886	-0.072137	0.7255213
10342099	15441	7774	Hp1bp3	heterochrom	Chr4: 137.7	8.6020118	9.7	Chr14: 46.5644	-0.4541	67	9E-05	0	-0.006496	0.976015

10534281	269713	20718	Clip2	CAP-GLY d	Chr5: 134.4	8.5329764	9.9	Chr13: 66.8805	0.45364	67	9E-05	0.3055	0.1876923	0.3568954
10343106			Affy_10343	Affymetrix M	ChrUn: 1.00	9.3005765	13.8	Chr18: 9.9021	-0.4536	67	9E-05	0	0	1
10536762	56463	8665	Snd1	staphylococ	Chr6: 28.48	10.862459	11.9	Chr10: 30.866	0.45354	67	9E-05	0.31455	0.1849573	0.364051
10509965	13836	20929	Epha2	Eph recepto	Chr4: 141.3	8.1268824	9.3	Chr16: 85.0872	0.45352	67	9E-05	0.36088	0.4974359	0.0105498
10586357	214425	2679	Cilp	cartilage int	Chr9: 65.26	8.1186706	39.5	Chr9: 64.5133	0.45327	67	9E-05	0.23054	0.4144298	0.0352942
10477012	14225	105139	Fkbp1a	FK506 bindi	Chr2: 151.5	9.7133882	13	Chr5: 131.541	0.45323	67	9E-05	0.33505	-0.450256	0.0219971
10411958	71816	18677	Rnf180	ring finger p	Chr13: 105.	8.0491294	10.8	Chr8: 54.9598	0.45284	67	9E-05	0.21549	0.2742349	0.1751891
10343004			Affy_10343	Affymetrix M	ChrUn: 1.00	9.1014823	12	Chr18: 15.638	-0.4527	67	9E-05	0	0	1
10341023			Affy_10341	Affymetrix M	ChrUn: 1.00	10.580188	11.6	Chr18: 15.638	-0.4527	67	9E-05	0	0	1
10574939	244631	48461	Pskh1	serine/threo	Chr8: 105.9	9.9551059	9.7	Chr4: 124.385	0.45271	67	9E-05	0.14183	0.0844444	0.6807639
10338617			Affy_10338	Affymetrix M	ChrUn: 1.00	9.2328118	11	Chr18: 15.638	-0.4524	67	1E-04	0	0	1
10343538			Affy_10343	Affymetrix M	ChrUn: 1.00	7.7632824	13.2	Chr11: 53.920	-0.4524	67	1E-04	0	0	1
10572432	71780	6222	Isyna1	myo-inositol	Chr8: 70.59	10.524129	9.3	Chr6: 23.2420	0.45197	67	1E-04	0.24122	0.4037607	0.0417806
10390175	18053	1877	Ngfr	nerve growtl	Chr11: 95.5	8.2725177	13.1	Chr3: 17.0635	0.45195	67	1E-04	0.27023	-0.110427	0.5898681
10456400	67951	69414	Tubb6	tubulin, beta	Chr18: 67.3	9.1703176	18.4	Chr5: 130.340	0.45161	67	1E-04	0.23946	-0.008547	0.9680236
10362896	12484	7662	Cd24a	CD24a antig	Chr10: 43.5	13.223247	14.5	Chr13: 59.704	-0.4515	67	1E-04	0.39282	0.345641	0.0842654
10517488	13844	37925	Ephb2	Eph recepto	Chr4: 136.6	7.8758824	16.4	Chr4: 3.39002	0.45118	67	0.0001	0.24808	0.1384615	0.4982997
10558150	56213	31114	Htra1	HtrA serine	Chr7: 130.9	9.6234588	11.8	Chr17: 26.814	0.45104	67	0.0001	0.37689	-0.254017	0.2096714
10498185	20462	20965	Tra2b	transformer	Chr3: 54.81	12.115976	8.6	Chr16: 84.787	-0.4506	67	0.0001	0.29324	0	1
10339273			Affy_10339	Affymetrix M	ChrUn: 1.00	7.0127529	11.1	Chr3: 57.3348	-0.4505	67	0.0001	0	0	1
10457536	225187	17839	Ankrd29	ankyrin repe	Chr18: 12.2	7.7176588	9.1	Chr5: 143.613	0.44995	67	0.0001	0	0.0160684	0.9387538
10409804	214290	51941	Zcchc6	zinc finger, (	Chr13: 59.7	11.278906	12.4	Chr17: 9.3730	-0.4497	67	0.0001	0	0.0652991	0.75079
10396877	108760	18907	Galntl1	UDP-N-acet	Chr12: 80.5	7.7032471	12.1	Chr5: 126.411	0.44953	67	0.0001	0	-0.339487	0.090224
10507840	56198	8494	Heyl	hairy/enhan	Chr4: 123.2	7.9728353	10.1	Chr9: 106.033	0.4495	67	0.0001	0.24297	-0.314872	0.1173232
10563421	14814	648	Grin2d	glutamate re	Chr7: 45.83	7.5642824	9.7	Chr16: 85.961	0.44923	67	0.0001	0.22102	-0.017436	0.9334393
10596533	21767	7975	Tex264	testis expres	Chr9: 106.6	9.3226941	10.1	Chr17: 75.881	0.44916	67	0.0001	0	0.2328205	0.2512345
10544148	338523	25281	Jhdm1d	jumonji C do	Chr6: 39.13	11.711165	9.9	Chr8: 111.319	-0.4488	67	0.0001	0.22326	-0.202735	0.3190673
10343272			Affy_10343	Affymetrix M	ChrUn: 1.00	8.0943647	9.1	Chr14: 103.76	-0.4487	67	0.0001	0	0	1
10382912	53860	129851	Sept9	septin 9	Chr11: 117.	10.390012	14.8	Chr17: 7.7133	0.44821	67	0.0001	0.30302	0.0769231	0.7079995
10474141	20511	3075	Slc1a2	solute carrie	Chr2: 102.6	8.1965412	10.5	Chr13: 63.703	0.44809	67	0.0001	0.28884	-0.128205	0.5309442
10505481	414083		8030463A0	Affymetrix M	Chr4: 63.97	5.6813647	10.5	Chr9: 106.033	0.44803	67	0.0001	0	0.4099145	0.0385459
10381122	14230	7718	Fkbp10	FK506 bindi	Chr11: 100.	8.6746236	10.2	Chr7: 87.7338	0.44763	67	0.0001	0.28134	0.085812	0.6758531
10358057	77552	18428	Shisa4	shisa family	Chr1: 135.3	8.1332824	14.7	Chr13: 55.919	0.44761	67	0.0001	0	0	1
10472757	73649	69387	Cybrd1	cytochrome	Chr2: 71.11	8.1180117	10.7	Chr8: 18.5022	0.44756	67	0.0001	0.23956	0.3997265	0.0430517
10470529	56177	8612	Olfm1	olfactomedir	Chr2: 28.19	8.3874353	9.9	Chr17: 21.686	0.44748	67	0.0001	0.29232	-0.297094	0.1403822
10527012	16848	22475	Lfng	LFNG O-fuc	Chr5: 140.6	10.189412	14.2	Chr13: 39.890	0.44741	67	0.0001	0.23705	-0.369573	0.0639252
10341149			Affy_10341	Affymetrix M	ChrUn: 1.00	7.0117177	9.3	Chr13: 66.880	-0.4473	67	0.0001	0	0	1
10398224	13116	31395	Cyp46a1	cytochrome	Chr12: 108.	7.5950588	10.6	ChrX: 9.33433	0.44724	67	0.0001	0.36774	-0.563761	0.0031662
10372652	17110	80675	Lyz1	lysozyme 1	Chr10: 117.	10.051435	16	Chr1: 136.566	0.44714	67	0.0001	0.28444	0.0919658	0.6539197
10504402	242409		Tmem8b	transmembr	Chr4: 43.66	7.6464941	8.8	Chr18: 76.870	0.44707	67	0.0001	0	-0.250598	0.2160321
10431711	239606	43139	Slc2a13	solute carrie	Chr15: 91.2	7.7830588	13	Chr11: 101.59	0.44705	67	0.0001	0.21665	0.0776068	0.7055082
10375079	327900	15484	Ubtd2	ubiquitin dor	Chr11: 32.4	8.8480588	11.9	Chr18: 15.638	0.44627	67	0.0001	0	-0.249915	0.21732
10342556			Affy_10342	Affymetrix M	ChrUn: 1.00	7.8092823	10.2	Chr9: 51.7131	-0.4462	67	0.0001	0	0	1
10438262	13358	4362	Slc25a1	solute carrie	Chr16: 17.9	10.089177	10	Chr6: 134.598	0.44612	67	0.0001	0.22966	0.1733333	0.3954043
10487392	56461	8382	Kcnip3	Kv channel i	Chr2: 127.4	7.4782824	28.3	Chr2: 121.587	0.44595	67	0.0001	0.34513	0.0078646	0.9695841
10425283	17133	7825	Maff	v-maf muscu	Chr15: 79.3	7.2173765	12.2	Chr4: 5.599068	0.44581	67	0.0001	0.26316	0.3039316	0.1311506
10417713	218772	68100	Rarb	retinoic acid	Chr14: 16.4	7.4137647	17.3	Chr12: 63.099	0.44577	67	0.0001	0.32613	-0.394872	0.0468341
10430145	93686	49375	Rbfox2	RNA binding	Chr15: 77.0	8.7544353	9.9	Chr7: 129.577	0.44554	67	0.0001	0.32514	0	1
10391490	18612	1504	Etv4	ets variant g	Chr11: 101.	7.4131412	10.9	Chr11: 100.84	0.44551	67	0.0001	0.36483	0.0694017	0.7355963
10527026	231841	16776	Baat1	BRCA1-ass	Chr5: 140.7	9.0732471	10.1	Chr8: 118.380	0.44548	67	0.0001	0.14394	0	1
10369993	103140	71569	Gstt3	glutathione	Chr10: 75.7	8.2458236	13.6	Chr17: 27.061	0.44534	67	0.0001	0.1802	0.3634188	0.0687436
10598292	20371	8516	Foxp3	forkhead bo	ChrX: 7.579	8.2116941	12.4	Chr10: 74.666	0.44518	67	0.0001	0.31904	-0.029744	0.8857637
10340029			Affy_10340	Affymetrix M	ChrUn: 1.00	8.2398824	11.2	Chr11: 52.520	-0.445	67	0.0001	0	0	1
10340899			Affy_10340	Affymetrix M	ChrUn: 1.00	7.2092118	10.6	Chr6: 134.598	-0.445	67	0.0001	0	0	1
10507798	16918	3921	Mycl1	v-myc myelo	Chr4: 122.9	8.6679646	9.8	Chr17: 80.952	0.44489	67	0.0001	0.36127	-0.003761	0.9866737
10425814	223726	15012	Mpped1	metallophos	Chr15: 83.7	7.5279294	7.3	Chr15: 85.612	0.44487	67	0.0001	0.14318	-0.167179	0.4126132
10339152			Affy_10339	Affymetrix M	ChrUn: 1.00	6.8784	12.5	Chr11: 52.520	-0.4448	67	0.0001	0	0	1
10383970	84035	12935	Kremen1	kringle conta	Chr11: 5.19	8.3975294	10.5	Chr17: 7.7053	0.44459	67	0.0001	0.22625	-0.117627	0.5671344
10339089			Affy_10339	Affymetrix M	ChrUn: 1.00	8.9975529	11.1	Chr18: 9.9021	-0.4445	67	0.0001	0	0	1
10567289	110058	9553	Syt17	synaptotagn	Chr7: 118.3	7.0170941	13.8	Chr17: 26.814	0.44405	67	0.0001	0.19048	0.0523077	0.7994896
10470543	241289	49400	Gm347	predicted ge	Chr2: 28.44	7.1825647	11.5	Chr4: 109.169	0.44397	67	0.0001	0	-0.275897	0.1720122
10343028			Affy_10343	Affymetrix M	ChrUn: 1.00	10.342141	16	Chr5: 130.333	0.44392	67	0.0001	0	0	1
10511136	230991		B930041F1	RIKEN cDN	Chr4: 155.6	8.1164235	10.5	Chr7: 111.680	0.44392	67	0.0001	0	-0.101538	0.620366
10514842	381538	19633	Gm1027	predicted ge	Chr4: 106.6	7.0912823	22.7	Chr4: 105.248	0.4438	67	0.0001	0	-0.124124	0.5457598
10384672	268390	72214	Ahsa2	AHA1, activa	Chr11: 23.4	8.7610353	9.6	Chr8: 76.9500	-0.4427	67	0.0001	0	-0.207521	0.3075767
10529584	17160	7411	Man2b2	mannosidas	Chr5: 36.80	9.4141295	12.7	Chr1: 184.909	0.44247	67	0.0001	0.18678	0.2078988	0.3081391
10370920	208198	32365	Btbd2	BTB (POZ) d	Chr10: 80.6	9.2096235	13.5	ChrX: 51.911	0.44224	67	0.0001	0.18004	-0.565812	0.0030393
10356593	55927	23111	Hes6	hairy and en	Chr1: 91.41	9.0988706	13.5	Chr13: 46.973	0.44205	67	0.0001	0.25283	0.2608547	0.1973402
10539263	16950	56591	Loxl3	lysyl oxidase	Chr6: 83.03	8.0814824	10.2	Chr9: 109.865	0.44183	67	0.0001	0.2702	-0.209573	0.3027332
10439455	11544	874	Adprh	ADP-ribosyl	Chr16: 38.4	9.4402471	12.2	Chr8: 121.000	0.44176	67	0.0001	0.31095	-0.425641	0.0311888
10589848	22221	8435	Ubp1	upstream bi	Chr9: 113.9	11.0548	14.8	Chr11: 52.520	-0.4417	67	0.0001	0.32608	0.1070085	0.6015201
10500378	78373		Nudt17	nudix (nucle	Chr3: 96.70	8.0934	12.5	Chr11: 52.520	0.4417	67	0.0001	0	0.1254701	0.5398207
10384152	19291	69087	Purb	purine rich e	Chr11: 6.47	9.6766824	11.3	Chr2: 92.4150	0.44161	67	0.0001	0.28397	0.3490598	0.0810885
10519770	26875	69111	Pclo	piccolo (pre	Chr5: 14.51	6.8906118	14.4	Chr1: 62.7258	0.4416	67	0.0001	0.24702	-0.320342	0.110832
10567663	233826	11652	Palb2	partner and	Chr7: 122.1	7.7441647	12.7	Chr13: 56.093	-0.4416	67	0.0001	0.20781	0.3135043	0.1189894
10461558	65221	69222	Slc15a3	solute carrie	Chr19: 10.8	10.254423	9.3	Chr16: 93.855	0.44117	67	0.0002	0.14524	0.0270085	0.8963301
10369388	107449	32538	Unc5b	unc-5 homol	Chr10: 60.7	7.6729294	7.3	Chr6: 124.528	0.44074	67	0.0002	0.27441	0.3039316	0.1311506
10572516	270058	10047	Map1s	microtubule-	Chr8: 70.90	9.0714589	14.2	Chr8: 24.3054	0.44069	67	0.0002	0.24072	0	1
10385966	11749	55558	Anxa6	annexin A6	Chr11: 54.9	11.7254	10.9	Chr11: 50.383	0.44026	67	0.0002	0.39534	-0.422294	0.0316287
10540523	30937	22823	Lmcd1	LIM and cys	Chr6: 112.2	8.4078235	11.6	Chr17: 7.7133	0.44011	67	0.0002	0.27418	-0.063932	0.7558754
10458314	72512	18868	Tmem173	transmembr	Chr18: 35.7	11.521824	13.7	Chr17: 33.146	0.44006	67	0.0002	0.29941	-0.048213	0.8150736
10342272			Affy_10342	Affymetrix M	ChrUn: 1.00	9.3930823	14	Chr18: 15.638	-0.4397	67	0.0002	0	0	1
10402325	65256	69202	Asb2	ankyrin repe	Chr12: 103.	10.5542	9.7	Chr16: 21.323	0.43966	67	0.0002	0.23225	-0.166496	0.4145511
10502484	109333	2054	Pkn2	protein kina	Chr3: 142.7	10.850059	11.3	Chr8: 111.319	-0.4394	67	0.0002	0.28805	0.1835897	0.3676606
10508012	192199	52148	Rspo1	R-spondin h	Chr4: 124.9	8.2596353	8.8	Chr10: 109.378	0.4391	67	0.0002	0.39707	-0.445204	0.022659
10510509	269604	18573	Gpr157	G protein-co	Chr4: 150.0	8.2917294	17.5	Chr4: 149.906	0.43899	67	0.0002	0	-0.134359	0.5112341
10382228	12006	3420	Axin2	axin2	Chr11: 108.	8.0059882	9.2	Chr16: 32.702	0.43897	67	0.0002	0.38666	0.0242735	0.9069141
10378549	237847	18611	Rtn4rl1	reticulon 4 r	Chr11: 75.1	9.0509059	11.8	Chr7: 107.292	0.43883	67	0.0002	0.13431	-0.397607	0.0452298

10541114	70727	17067	Rasgef1a	RasGEF do	Chr6: 118.0	7.0926824	9	Chr4: 9.41748	0.4386	67	0.0002	0	-0.204786	0.3141104
10360012	435653	83202	Fcrlb	Fc receptor-	Chr1: 170.9	7.6792706	12.6	Chr4: 9.27671	0.43859	67	0.0002	0.24164	0	1
10591563	235041	9163	Kank2	KN motif an	Chr9: 21.76	8.5054588	15.1	Chr18: 9.4891	0.43841	67	0.0002	0.21369	0	1
10507099	666048	85034	Gm12824	predicted ge	Chr4: 114.4	7.3201529	13.2	Chr4: 9.27671	0.43757	67	0.0002	0.24595	0	1
10564631	108116	40862	Slco3a1	solute carrie	Chr7: 74.27	9.3365412	9.8	Chr17: 43.863	0.43744	67	0.0002	0.29339	-0.135043	0.5090668
10565958	233571	14289	P2ry6	pyrimidinerg	Chr7: 100.9	8.6702471	12.7	Chr16: 26.422	0.43737	67	0.0002	0.36909	-0.024957	0.9042666
10391444	73635	101691	1700113I22	RIKEN cDN	Chr11: 101.	6.7042236	14.8	Chr4: 9.27671	0.43701	67	0.0002	0	0.0694017	0.7355963
10344233			Affy_10344	Affymetrix M	ChrUn: 1.00	7.3465294	16.9	Chr14: 89.511	-0.437	67	0.0002	0	0	1
10342276			Affy_10342	Affymetrix M	ChrUn: 1.00	10.227224	14.3	Chr11: 52.520	0.43666	67	0.0002	0	0	1
10515930	433752	86332	AA415398	expressed s	Chr4: 119.5	7.1065412	8.6	Chr18: 73.844	0.43665	67	0.0002	0	0	1
10393106	217333	14128	Trim47	tripartite mo	Chr11: 116.	8.4419883	12.5	Chr4: 16.4308	0.43651	67	0.0002	0	0.2129915	0.2947686
10343342			Affy_10343	Affymetrix M	ChrUn: 1.00	4.8202471	8.9	Chr9: 107.650	-0.4362	67	0.0002	0	0	1
10531737	15442	68528	Hpse	heparanase	Chr5: 100.6	10.116965	13.9	Chr11: 56.125	0.43598	67	0.0002	0.43802	0.1316239	0.5199489
10602044	245643		Frmpd3	FERM and P	ChrX: 140.3	6.2965765	9.7	Chr5: 126.413	0.43592	67	0.0002	0	0.0338462	0.8699509
10343374			Affy_10343	Affymetrix M	ChrUn: 1.00	7.5362235	14.1	Chr11: 83.586	0.43587	67	0.0002	0	0	1
10482237	26423	3638	Nr5a1	nuclear rece	Chr2: 38.69	8.5890235	12.7	Chr10: 82.045	0.43576	67	0.0002	0.28978	-0.126154	0.5375949
10343181			Affy_10343	Affymetrix M	ChrUn: 1.00	7.5027882	10	Chr4: 6.88994	-0.4357	67	0.0002	0	0	1
10443730	11307	21022	Abcg1	ATP-binding	Chr17: 31.0	10.724706	18.9	ChrX: 9.33433	0.43566	67	0.0002	0.34055	-0.28	0.165526
10508707	623230	79738	Tmem200b	transmembr	Chr4: 131.9	8.6858588	12.6	Chr8: 18.5022	0.4356	67	0.0002	0	0	1
10519196	246228	11270	Vwa1	von Willebra	Chr4: 155.7	8.7109294	11.3	Chr13: 63.703	0.43547	67	0.0002	0.22801	-0.247179	0.2225239
10547906	16768	1719	Lag3	lymphocyte-	Chr6: 124.9	8.4332471	12.7	Chr1: 116.490	0.43546	67	0.0002	0.35558	-0.389126	0.0494367
10602198	18481	55664	Pak3	p21 protein	ChrX: 143.5	6.4427765	8.9	Chr6: 135.057	0.43538	67	0.0002	0.30359	-0.060513	0.7686329
10364093	70377	41566	Derl3	Der1-like do	Chr10: 75.8	8.6614118	15.9	Chr5: 130.410	0.43515	67	0.0002	0.23593	0.1760684	0.3878907
10340506			Affy_10340	Affymetrix M	ChrUn: 1.00	7.6027882	15.6	Chr12: 86.908	-0.435	67	0.0002	0	0	1
10502622	23844	984	Clca3	chloride cha	Chr3: 145.0	7.0668236	15.3	Chr16: 3.5000	0.4349	67	0.0002	0.32163	0.2047863	0.3141104
10344750	170755	56582	Sgk3	serum/gluco	Chr1: 9.798	10.666776	13.2	Chr17: 43.098	-0.4348	67	0.0002	0.40117	-0.032479	0.8752166
10341197			Affy_10341	Affymetrix M	ChrUn: 1.00	8.0203647	11.9	Chr1: 3.51120	-0.4347	67	0.0002	0	0	1
10429140	17988	55953	Ndrg1	N-myc down	Chr15: 66.9	10.229259	13.9	Chr17: 8.1994	0.43439	67	0.0002	0.37871	0.2601709	0.19855
10437210	56175	22696	Bace2	beta-site AP	Chr16: 97.3	8.6477059	9.7	Chr7: 107.292	0.43429	67	0.0002	0.20461	-0.042735	0.8358673
10458816	225471	11014	Ticam2	toll-like rece	Chr18: 46.5	8.8957882	18.7	Chr17: 7.7133	0.4341	67	0.0002	0.31647	-0.102222	0.6179969
10423293	17909	36328	Myo10	myosin X	Chr15: 25.6	9.6766235	7.8	Chr6: 48.9224	0.43407	67	0.0002	0.29216	0.1391453	0.4961602
10532598	74376	53435	Myo18b	myosin XVII	Chr5: 112.8	7.8932941	12.4	Chr5: 100.048	0.4339	67	0.0002	0.21487	-0.288889	0.1520772
10494445	280411		Lix1l	Lix1-like	Chr3: 96.60	9.0951059	13	Chr4: 20.0330	0.43368	67	0.0002	0	-0.353162	0.0773991
10578806	330776		Gm10283	predicted ge	Chr8: 60.43	5.0551647	12.6	Chr7: 68.5392	-0.4337	67	0.0002	0	0	1
10448441	245847	9311	Amdhd2	amidohydrol	Chr17: 24.1	9.237	10.4	Chr9: 106.033	0.43365	67	0.0002	0.24767	0.2676923	0.1855235
10447461	77057		Ston1	stonin 1	Chr17: 88.6	8.1547059	9.7	Chr7: 129.577	0.4335	67	0.0002	0.088393	0	1
10484927	68427	62681	Slc39a13	solute carrie	Chr2: 91.06	9.0377646	8.7	Chr10: 82.045	0.43344	67	0.0002	0.22884	-0.193846	0.3411068
10338101			Affy_10338	Affymetrix M	ChrUn: 1.00	9.971647	11.1	Chr11: 58.245	-0.4334	67	0.0002	0	0	1
10463064	14433	107053	Gapdh	glyceraldehy	Chr6: 125.1	12.776871	16.1	Chr17: 26.814	0.43293	67	0.0002	0.38381	-0.044786	0.8280411
10455852	73137	12491	Prrc1	proline-rich	Chr18: 57.3	9.6301647	14.2	Chr9: 123.942	0.43285	67	0.0002	0	0.4194872	0.0339182
10355456	381269	9954	Mreg	melanoregul	Chr1: 72.15	8.4671647	12.1	Chr18: 15.638	0.43251	67	0.0002	0.22555	-0.193846	0.3411068
10539665	26910	49294	Figla	folliculogene	Chr6: 86.01	7.0965647	13.6	Chr8: 25.5204	0.43248	67	0.0002	0.2492	-0.320342	0.110832
10438313	94223	11223	Dgcr8	DiGeorge sy	Chr16: 18.2	9.8549883	12	Chr16: 31.615	-0.4324	67	0.0002	0.30835	0.4551205	0.0194804
10563191	68667	23033	Trpm4	transient rec	Chr7: 45.30	7.766	13.4	Chr16: 85.961	0.43229	67	0.0002	0.33687	0.2806838	0.1644622
10458478	319262	14127	Fchsd1	FCH and do	Chr18: 37.9	8.0509647	10.3	Chr8: 118.380	0.43221	67	0.0002	0.14559	0.4728205	0.0156546
10594199	207596	49796	Thsd4	thrombospo	Chr9: 59.96	7.1137059	14.9	Chr6: 134.453	0.43216	67	0.0002	0.16444	-0.121368	0.5532667
10370037	17385	38116	Mmp11	matrix metal	Chr10: 75.9	7.7096588	12.7	Chr2: 168.424	0.43205	67	0.0002	0.40412	-0.007863	0.9706871
10348645	64095	3874	Gpr35	G protein-co	Chr1: 92.78	8.8106	10	Chr18: 45.140	0.43204	67	0.0002	0.32641	0.3647863	0.0676491
10398881	382639	20003	Zbtb42	zinc finger a	Chr12: 112.	8.0057647	7.7	Chr1: 192.141	0.43172	67	0.0002	0.23498	0	1
10489528	629754	77391	Wfdc9	WAP four-di	Chr2: 164.6	6.1819177	11.3	Chr10: 80.452	0.43165	67	0.0002	0	0	1
10462330	74411	45228	Ppapdc2	phosphatidi	Chr19: 28.9	8.8850706	12.4	ChrX: 56.170	0.43143	67	0.0002	0	0.3921368	0.0484835
10463643			Affy_10463	Affymetrix M	Chr19: 46.3	5.3743176	10.3	Chr9: 58.8770	-0.4312	67	0.0002	0	0	1
10339804	65246	22857	Xpo7	exportin 7	Chr14: 71.1	9.6344706	14.5	Chr4: 129.572	-0.4312	67	0.0002	0.19295	-0.151479	0.460098
10552743	14204	22567	Il4i1	interleukin 4	Chr7: 44.83	9.7087765	13.5	Chr13: 46.973	0.43114	67	0.0002	0.32057	0.008547	0.9680236
10450614	69662	17027	2310061I04	RIKEN cDN	Chr17: 35.8	9.3984471	9.2	Chr18: 9.4891	0.431	67	0.0002	0	0.3080342	0.1258311
10339904			Affy_10339	Affymetrix M	ChrUn: 1.00	9.9437882	13.1	Chr11: 53.920	-0.4307	67	0.0002	0	0	1
10542093	60345	11023	Nrip2	nuclear rece	Chr6: 128.3	7.6044588	11.6	Chr9: 110.635	0.43033	67	0.0002	0.2383	-0.224654	0.2698731
10595718	54371	3150	Chst2	carbohydrat	Chr9: 95.40	8.5579883	12.9	Chr9: 97.3211	0.43007	67	0.0002	0.26335	-0.311453	0.1215218
10576046	15227	1114	Foxf1a	forkhead bo	Chr8: 121.0	8.0529059	11.3	Chr16: 85.807	0.42998	67	0.0002	0.34579	0.1295948	0.5280556
10339519			Affy_10339	Affymetrix M	ChrUn: 1.00	5.562647	10.6	Chr9: 106.020	-0.4299	67	0.0002	0	0	1
10578123	19663	38238	Rbpms	RNA binding	Chr8: 33.78	9.5549882	15.6	Chr18: 15.638	0.4297	67	0.0002	0.1577	-0.100171	0.6251155
10338796			Affy_10338	Affymetrix M	ChrUn: 1.00	9.5221294	10	Chr15: 3.9779	-0.4296	67	0.0002	0	0	1
10518532	230908	7221	Tardbp	TAR DNA R	Chr4: 148.6	10.387929	8.3	Chr1: 88.1378	-0.4296	67	0.0002	0.31585	-0.329231	0.1008642
10489204	21817	3391	Tgm2	transglutami	Chr2: 158.1	10.661847	14.2	Chr16: 49.849	0.4294	67	0.0002	0.42577	0.0311111	0.8804876
10571288	68153	37573	Gtf2e2	general tran	Chr8: 33.73	9.3006942	12.4	Chr11: 48.117	-0.4294	67	0.0002	0.19757	0.2649573	0.1901889
10341384			Affy_10341	Affymetrix M	ChrUn: 1.00	8.4475294	12.2	Chr17: 33.146	-0.4294	67	0.0002	0	0	1
10369783	216049	8975	Zfp365	zinc finger p	Chr10: 67.6	7.137753	17.1	ChrX: 10.699	0.42931	67	0.0002	0.26396	-0.099487	0.6274959
10404309	19111	49261	Prl6a1	prolactin fan	Chr13: 27.3	5.0262706	15.2	Chr6: 95.0102	0.42925	67	0.0002	0.19282	0.2505983	0.2160321
10397736	217826	69351	Kcnk13	potassium c	Chr12: 99.9	7.9246941	12	Chr9: 58.8770	0.42872	67	0.0002	0.1555	-0.417436	0.0348699
10544462	77574	8815	Fam115a	family with s	Chr6: 42.66	8.1282001	13.6	Chr4: 119.382	0.42856	67	0.0002	0	0	1
10342665			Affy_10342	Affymetrix M	ChrUn: 1.00	6.8741412	11.1	Chr13: 63.703	-0.4285	67	0.0002	0	0	1
10414866	667574	115012	Gm13907	predicted ge	Chr14: 53.2	8.0832471	13	Chr11: 120.95	0.42852	67	0.0002	0.15254	0	1
10557960	21804	7572	Tgfb1i1	transforming	Chr7: 128.2	8.8417176	11.4	Chr4: 20.0330	0.42848	67	0.0002	0.38696	0.1562393	0.4442282
10583508	66163	32286	Mrpl4	mitochondri	Chr9: 21.00	9.5020236	11.1	Chr16: 84.787	0.42844	67	0.0002	0	-0.12	0.5577832
10590972	17319	55655	Mif	macrophage	Chr10: 75.3	11.602624	10.3	Chr18: 69.862	0.42828	67	0.0002	0.36891	-0.106685	0.6039568
10344341			Affy_10344	Affymetrix M	ChrUn: 1.00	8.2807883	8.5	Chr5: 16.6084	-0.4282	67	0.0003	0	0	1
10522265	109108	4627	Slc30a9	solute carrie	Chr5: 67.30	10.176506	16.3	Chr13: 59.704	-0.4282	67	0.0003	0.28594	-0.465299	0.0175731
10558049	381925	38751	Ppapdc1a	phosphatidi	Chr7: 129.2	7.4317882	10.8	Chr4: 156.183	0.42803	67	0.0003	0	-0.064615	0.7533314
10465278	104252	4933	Cdc42ep2	CDC42 effe	Chr19: 5.91	8.9155412	13.1	Chr17: 9.2734	0.42798	67	0.0003	0.18712	-0.101538	0.620366
10441456	20975	117703	Synj2	synaptojanir	Chr17: 5.94	7.911	14.5	Chr13: 66.880	0.42788	67	0.0003	0.26174	0.0701094	0.7336104
10523182	11839	1252	Areg	amphiregulir	Chr5: 91.13	7.5902824	10.1	Chr18: 80.000	0.42757	67	0.0003	0.39896	0.4420513	0.0247731
10606058	12766	1153	Cxcr3	chemokine (	ChrX: 101.7	9.8549529	19.4	Chr17: 33.146	0.42753	67	0.0003	0.35964	0.1070085	0.6015201
10586172			Affy_10586	Affymetrix M	Chr9: 64.17	8.2847882	13.5	Chr12: 88.910	-0.4275	67	0.0003	0	0	1
10470564	19730	4562	Ralgds	ral guanine	Chr2: 28.51	8.5512235	11.2	Chr12: 56.006	0.42737	67	0.0003	0.26568	-0.072821	0.7230095
10588226	56332	9420	Amotl2	angiomotin-l	Chr9: 102.7	8.5380352	9.4	Chr5: 43.1801	0.42721	67	0.0003	0.26859	-0.149402	0.4646373
10370818	237400	16890	Mex3d	mex3 homol	Chr10: 80.3	8.1993764	11.8	Chr1: 192.141	0.42718	67	0.0003	0.17656	-0.239658	0.2372703
10348666	67446	45491	Dusp28	dual specific	Chr1: 92.90	8.3780706	12.1	Chr9: 97.3211	0.42711	67	0.0003	0	-0.372308	0.0618706
10341866			Affy_10341	Affymetrix M	ChrUn: 1.00	6.8076471	12.7	Chr18: 30.425	-0.4271	67	0.0003	0	0	1

10448034	13388	4104	Dll1	delta-like 1 (	Chr17: 15.3(	9.0000588	10.4	Chr17: 33.1463	0.42689	67	0.0003	0.29236	0.1111301	0.5888766
10342410			Affy_10342	Affymetrix M	ChrUn: 1.00	9.5588471	14.2	Chr18: 15.6386	-0.4266	67	0.0003	0	0	1
10607113	50780	32440	Rgs3	regulator of	Chr4: 139.5	9.095753	15	ChrX: 9.33433(	0.42641	67	0.0003	0.30087	-0.450256	0.0219971
10344331			Affy_10344	Affymetrix M	ChrUn: 1.00	8.8685176	10.3	Chr13: 66.8805	-0.4264	67	0.0003	0	0	1
10442565	71893	12418	Noxo1	NADPH oxid	Chr17: 24.6(	7.8426118	9.6	Chr2: 166.6303	0.42632	67	0.0003	0.23665	0.3039316	0.1311506
10509441	230857	1068	Ece1	endothelin c	Chr4: 137.8(	9.5766118	9.1	Chr17: 82.5576	0.4262	67	0.0003	0.32257	0.1692308	0.4068305
10598111	236082	78041	Dhrsx	dehydrogen	Chr4: 0.124(	9.2350824	10.9	Chr15: 96.2006	0.42604	67	0.0003	0.1347	0.5015385	0.0098532
10381211	27419	222	Naglu	alpha-N-ace	Chr11: 101.(	9.1197412	12.5	Chr9: 78.05466	0.42581	67	0.0003	0.32229	-0.052308	0.7994896
10548000	17000	1753	Ltbr	lymphotoxin	Chr6: 125.3(	8.8989647	11.2	Chr4: 12.57575	0.42572	67	0.0003	0.31812	0.3586325	0.0726836
10519480			Affy_10519	Affymetrix M	Chr5: 5.567:	6.4222235	13.9	Chr12: 113.15(	0.42566	67	0.0003	0	0	1
10339577			Affy_10339	Affymetrix M	ChrUn: 1.00	12.067247	10.5	Chr16: 31.5980	0.42549	67	0.0003	0	0	1
10551907	54631	20974	Nphs1	nephrosis 1	Chr7: 30.45	7.2691765	13.2	Chr13: 26.8074	0.42529	67	0.0003	0.37215	0.2369231	0.2427919
10502438	229879		Gm4862	predicted ge	Chr3: 139.1	7.1254235	13.7	Chr11: 89.7514	0.42522	67	0.0003	0	0	1
10524555	17855	372	Mvk	mevalonate	Chr5: 114.4(	8.4163177	14.9	Chr2: 167.1914	0.42518	67	0.0003	0.35069	-0.152137	0.4564146
10528548	16511	201	Kcnh2	potassium v	Chr5: 24.31:	7.6586353	12	Chr14: 84.4488	0.42512	67	0.0003	0.30787	-0.487179	0.0124742
10434932	224093	17800	Fam43a	family with s	Chr16: 30.5:	9.6302588	13.5	Chr16: 31.598(	0.42484	67	0.0003	0.21471	0	1
10386723	23939	2060	Mapk7	mitogen-acti	Chr11: 61.4(	9.0395177	11.3	Chr16: 85.9617	0.42475	67	0.0003	0.40321	-0.498205	0.0095909
10341292			Affy_10341	Affymetrix M	ChrUn: 1.00	7.4811294	13	Chr18: 9.48914	-0.4247	67	0.0003	0	0	1
10388669	216964	16293	Trp53i13	transformati	Chr11: 77.5(	7.8426118	14.2	Chr5: 125.3512	0.42471	67	0.0003	0	0.0905983	0.65877
10575926	69047	73463	Atp2c2	ATPase, Ca	Chr8: 119.7(	6.9468353	8.4	Chr3: 129.4974	0.42469	67	0.0003	0.24288	0.537094	0.0052755
10362062	76924		1700021A07	RIKEN cDNA	Chr10: 21.4:	7.1466824	9.7	Chr13: 67.4972	0.42454	67	0.0003	0	0.3948718	0.0468341
10451322	78309	56696	Cul9	cullin 9	Chr17: 46.5(	8.1628942	10.6	ChrX: 139.755(	0.42442	67	0.0003	0.22697	0	1
10344209			Affy_10344	Affymetrix M	ChrUn: 1.00	8.0585529	12.5	Chr10: 19.629(	-0.4243	67	0.0003	0	0	1
10507905	18991	20590	Pou3f1	POU domair	Chr4: 124.6:	7.8515765	9.2	Chr4: 156.1217	0.42431	67	0.0003	0.3083	-0.184957	0.364051
10379866	12351	20183	Car4	carbonic anl	Chr11: 84.9:	6.7160471	11.8	Chr10: 20.0846	0.42418	67	0.0003	0.33108	0.1473504	0.4708556
10366667	75612	1568	Gns	glucosamine	Chr10: 121.:	11.248671	11	Chr17: 43.863(	0.42385	67	0.0003	0.2499	0.0071795	0.9733509
10596428	68553	104155	Col6a4	collagen, typ	Chr9: 105.9:	8.113847	43.5	Chr9: 106.0813	0.42383	67	0.0003	0.2231	0	1
10445380	224805	56897	Aars2	alanyl-tRNA	Chr17: 45.5(	8.2955412	10	Chr9: 107.6392	0.42363	67	0.0003	0	0.0222222	0.9148626
10405343	74257	41762	Tspan17	tetraspanin	Chr13: 54.7:	7.8190118	19.2	Chr13: 55.9193	0.42362	67	0.0003	0.20397	-0.286154	0.156128
10434993	239827	80243	Pigz	phosphatidy	Chr16: 31.9:	8.2364471	14.4	Chr17: 7.7053(	0.42349	67	0.0003	0	-0.219829	0.2792446
10592001	19143	7906	St14	suppression	Chr9: 31.08:	8.8280353	14.4	Chr9: 78.05466	0.42333	67	0.0003	0.37779	0.634188	0.0006642
10345509	22637	839	Zap70	zeta-chain (	Chr1: 36.76:	8.6226706	16.4	Chr13: 39.8903	0.42298	67	0.0003	0.31506	-0.148034	0.468778
10431147	223732	18594	Ldoc1l	leucine zipp	Chr15: 84.5:	8.8825765	11.8	Chr13: 59.1805	0.42292	67	0.0003	0.16864	-0.460513	0.0188925
10508178	230757	17566	5730409E04	RIKEN cDNA	Chr4: 126.6(	8.8055059	13.9	Chr4: 109.1697	0.42279	67	0.0003	0	0	1
10344286			Affy_10344	Affymetrix M	ChrUn: 1.00	7.8574117	15.9	Chr11: 53.9207	-0.4228	67	0.0003	0	0	1
10424905	20289	85195	Scx	scleraxis	Chr15: 76.4:	7.5357059	8.4	Chr5: 127.7817	0.42266	67	0.0003	0.29823	-0.037265	0.8568111
10369531	70423	22716	Tspan15	tetraspanin	Chr10: 62.1(	9.5462354	10.2	Chr9: 122.0152	0.42265	67	0.0003	0.15057	0.0112821	0.9573733
10384423	12808	9058	Cobl	cordon-bleu	Chr11: 12.2:	7.599	9.9	Chr8: 25.52048	0.42251	67	0.0003	0.25717	0.2670085	0.1866822
10527832	100710	41001	Pds5b	PDS5, regul	Chr5: 150.6:	10.019471	10.6	Chr12: 51.6477	-0.4224	67	0.0003	0.25586	-0.52547	0.0065143
10390059	217119	23349	Xylt2	xylosyltrans	Chr11: 94.6(	8.5806588	11.4	Chr9: 65.54766	0.42238	67	0.0003	0.28639	-0.079658	0.6980523
10420155	52585	41696	Dhrs1	dehydrogen	Chr14: 55.7:	11.012918	17.2	Chr16: 26.4221	0.4219	67	0.0003	0	0.1842735	0.3658532
10436519	19876	2206	Robo1	roundabout	Chr16: 72.1(	8.2860353	15.4	Chr4: 156.1009	0.42189	67	0.0003	0.21472	0.0974359	0.6346591
10414760	667574	115012	Gm13907	predicted ge	Chr14: 52.8:	8.1335883	13	Chr11: 120.956	0.42165	67	0.0003	0.15254	0	1
10461237	14705	32032	Bscl2	Bernardinell	Chr19: 8.83	9.5149883	9.3	Chr13: 40.0387	0.42147	67	0.0003	0.33566	0.1699145	0.4049132
10562767	69349	19260	1700008O03	RIKEN cDNA	Chr7: 44.36(	7.6042824	12.6	Chr8: 26.96785	0.42144	67	0.0003	0	-0.336183	0.0931174
10430968	239559	9690	A4galt	alpha 1,4-ga	Chr15: 83.2:	8.7735177	10.2	Chr17: 7.7133(	0.42143	67	0.0003	0.30559	0.1432479	0.4834222
10434165	11877	31046	Arvcf	armadillo re	Chr16: 18.3(	9.2686588	11	Chr16: 85.8070	0.42141	67	0.0003	0.23429	-0.126154	0.5375949
10535043	18590	32055	Pdgfa	platelet deri	Chr5: 138.9:	9.1068823	11	Chr4: 20.03303	0.42137	67	0.0003	0.36504	0.1904274	0.3498248
10462454	109113	17001	Uhrf2	ubiquitin-like	Chr19: 30.0:	10.010153	12.7	Chr11: 52.5203	-0.4214	67	0.0003	0.19453	-0.00171	0.9933864
10411082	21828	20691	Thbs4	thrombospor	Chr13: 92.7:	7.9978941	14.4	Chr17: 33.1463	0.42105	67	0.0003	0.36136	0.3237607	0.1069143
10520126	18127	504	Nos3	nitric oxide s	Chr5: 24.36(	8.1219529	10.9	Chr8: 123.2895	0.42097	67	0.0003	0.30667	-0.44	0.0255102
10466903	381218	9945	4430402I18	RIKEN cDNA	Chr19: 28.9(	6.5944	12.5	Chr11: 4.50872	0.42073	67	0.0003	0	-0.223932	0.2701894
10489646	228875	6581	Slc35c2	solute carrie	Chr2: 165.2:	10.221329	11.3	ChrX: 9.33433(	0.42069	67	0.0003	0.25846	0.2300855	0.2569701
10591135	270120	82252	Fat3	FAT tumor s	Chr9: 16.37	6.9319765	13.7	Chr5: 97.81045	0.42034	67	0.0003	0.23318	0.1022222	0.6179969
10399575			Affy_10399	Affymetrix M	Chr12: 19.8:	8.4837882	10.6	Chr17: 23.1856	0.42031	67	0.0003	0	0	1
10341865			Affy_10341	Affymetrix M	ChrUn: 1.00	8.9867883	12.2	Chr18: 9.48914	-0.4203	67	0.0003	0	0	1
10437594	252870	2592	Usp7	ubiquitin spe	Chr16: 8.69(	11.851165	13.4	Chr13: 54.8790	-0.4198	67	0.0003	0.30044	0.4864957	0.0126123
10349051	21934	2848	Tnfrsf11a	tumor necro	Chr1: 105.7:	8.3200941	12.5	ChrX: 47.32864	0.41969	67	0.0003	0.40449	0.4878632	0.0123373
10348424	98402	8726	Sh3bp4	SH3-domair	Chr1: 89.07(	8.5800941	20.2	ChrX: 9.33433(	0.41965	67	0.0003	0.19554	0.0844444	0.6807639
10596893	13138	3234	Dag1	dystroglycar	Chr9: 108.2(	9.657753	11.4	Chr17: 66.4361	0.4195	67	0.0003	0.26241	-0.100171	0.6251155
10518069	27984	32580	Efhd2	EF hand dor	Chr4: 141.8:	10.904577	11.4	Chr8: 118.3806	0.41933	67	0.0004	0.29137	0.5117949	0.0082789
10454877	19290	4279	Pura	purine rich e	Chr18: 36.2:	10.595929	9.6	Chr6: 6.060085	0.41922	67	0.0004	0.31429	-0.600684	0.0014575
10386473	20787	3079	Srebf1	sterol regula	Chr11: 60.1:	9.4398	11.9	Chr18: 43.1546	0.41906	67	0.0004	0.29394	-0.174017	0.3935181
10458731	328949		Mcc	mutated in c	Chr18: 44.4:	8.1994941	10.5	Chr2: 9.829662	0.41885	67	0.0004	0.25468	-0.04	0.8463262
10447118	100043697		Gm9959	predicted ge	Chr17: 80.7:	7.2033882	18.8	Chr5: 125.6992	0.41884	67	0.0004	0	0	1
10360832	73363		1700056E22	RIKEN cDNA	Chr1: 184.0:	7.7904	12.4	Chr13: 117.572	0.41845	67	0.0004	0	0	1
10341721			Affy_10341	Affymetrix M	ChrUn: 1.00	8.2037412	10.8	Chr12: 88.9103	-0.4184	67	0.0004	0	0	1
10358191	67886	18927	Camsap2	calmodulin r	Chr1: 136.2(	10.457082	15.6	Chr13: 59.4448	-0.4184	67	0.0004	0.17334	0	1
10402554	58208	10974	Bcl11b	B-cell leuke	Chr12: 107.9	8.9718235	10.6	Chr4: 108.5644	0.4184	67	0.0004	0.3831	0.3039316	0.1311506
10532926	11409	20057	Acads	acyl-Coenzy	Chr5: 115.1:	9.4593765	15.1	Chr5: 127.6171	0.41826	67	0.0004	0.33234	0.1275214	0.5331567
10437668	12703	2776	Socs1	suppressor (	Chr16: 10.7:	8.5984235	11.3	Chr4: 9.257136	0.41821	67	0.0004	0.36852	-0.232137	0.2526604
10452770	381122	27026	Capn13	calpain 13	Chr17: 73.3(	6.0646235	10.1	Chr1: 5.641533	0.41818	67	0.0004	0	0.2704274	0.1809393
10344103			Affy_10344	Affymetrix M	ChrUn: 1.00	7.5725647	18.2	Chr15: 87.9885	-0.4178	67	0.0004	0	0	1
10382980	20973	20987	Syngr2	synaptogyrir	Chr11: 117.:	11.604141	21.1	Chr17: 27.0610	0.41774	67	0.0004	0.21253	-0.009231	0.9653605
10364251	80294	12724	Pofut2	protein O-fu	Chr10: 77.2:	8.9189529	11.6	ChrX: 51.9119(	0.41773	67	0.0004	0.11906	-0.388718	0.0506101
10375956	320027	18543	Fstl4	follistatin-lik	Chr11: 52.7(	7.3245177	42.8	Chr11: 52.5203	0.4176	67	0.0004	0.17132	-0.285519	0.1573921
10361063			Affy_10361	Affymetrix M	Chr1: 191.0(	7.0347882	18.1	Chr7: 100.0810	0.41752	67	0.0004	0	0	1
10424700	22701	65280	Zfp41	zinc finger p	Chr15: 75.6:	7.9563177	9.3	Chr10: 76.7128	0.41736	67	0.0004	0.11633	-0.232137	0.2526604
10524889	333050	105431	Ksr2	kinase supp	Chr5: 117.4:	7.6510353	12.6	ChrX: 9.33433(	0.41726	67	0.0004	0.27781	-0.131624	0.5199489
10460359	23789	40790	Coro1b	coronin, acti	Chr19: 4.14:	11.932776	11.4	Chr1: 184.9098	0.41719	67	0.0004	0.27968	0.1651564	0.4200825
10341682			Affy_10341	Affymetrix M	ChrUn: 1.00	12.825988	9.9	Chr14: 84.4488	-0.4172	67	0.0004	0	0	1
10557508	13446	2657	Doc2a	double C2, a	Chr7: 126.8(	6.7923412	14.3	Chr8: 24.3823(	0.41705	67	0.0004	0.2047	-0.052308	0.7994896
10560575	19698	4747	Relb	avian reticul	Chr7: 19.60(	9.7497412	14.6	Chr13: 39.8903	0.41696	67	0.0004	0.43988	0.1965812	0.3342287
10344371			Affy_10344	Affymetrix M	ChrUn: 1.00	9.0536941	9.4	Chr18: 70.1590	-0.4169	67	0.0004	0	0	1
10509577	18782	7892	Pla2g2d	phospholipa	Chr4: 138.7	11.093447	12.7	Chr17: 33.1463	0.41678	67	0.0004	0.33834	-0.297094	0.1403822
10414081	319508	12901	Syt15	synaptotagn	Chr14: 34.2:	8.2349177	8.8	Chr17: 64.9938	0.41669	67	0.0004	0.22803	-0.160711	0.4328726
10435514	106347	15892	Ildr1	immunoglob	Chr16: 36.6:	7.9969647	13.3	ChrX: 9.33433(	0.41663	67	0.0004	0.24234	0.3128205	0.1198291
10489912	407243	33615	Tmem189	transmembr	Chr2: 167.6(	10.305588	16.7	Chr8: 111.3193	0.41663	67	0.0004	0.21539	-0.254701	0.208415

10493692	68328	55698	Rab13	RAB13, mer	Chr3: 90.22(	7.7614117	10.3	Chr16: 21.3236	0.41624	67	0.0004	0.18756	-0.202735	0.3190673
10376208	14667	349	Gm2a	GM2 ganglic	Chr11: 55.0(	12.328847	13.4	Chr17: 9.37307	0.41623	67	0.0004	0.25579	-0.03453	0.8673201
10582474	234852	56240	Chmp1a	chromatin m	Chr8: 123.2(	9.8380471	11.9	Chr2: 167.1914	0.41616	67	0.0004	0.17513	0.4249573	0.0314829
10504337	230099	20325	Car9	carbonic anl	Chr4: 43.50	7.2394706	9.3	Chr9: 65.54703	0.41604	67	0.0004	0.38197	0.4140171	0.0365039
10586250	102442	55933	Dennd4a	DENN/MAD	Chr9: 64.88(	10.646141	15.2	Chr13: 63.7039	-0.416	67	0.0004	0	-0.282735	0.1613003
10391066	16667	363	Krt17	keratin 17	Chr11: 100.1	6.8865412	10.7	Chr5: 126.4131	0.41597	67	0.0004	0.33806	0.3278632	0.1023518
10361358	56533	8242	Rgs17	regulator of	Chr10: 5.83	6.5997647	9.7	Chr4: 13.89710	0.41587	67	0.0004	0.19443	-0.193162	0.3428397
10445758	224840	65248	Treml4	triggering re	Chr17: 48.2(	11.350894	10.8	Chr18: 45.1406	0.41584	67	0.0004	0.22357	-0.02394	0.9075873
10476133	66766	122214	4933425O2(	RIKEN cDN/	Chr2: 130.4(	6.9522118	10.8	Chr12: 57.9526	0.41571	67	0.0004	0	0.2355958	0.2466087
10546725	55983	10328	Pdzrn3	PDZ domair	Chr6: 101.1(	7.0920118	10.2	Chr16: 24.1756	0.41569	67	0.0004	0.2637	-0.055043	0.7891683
10509777	212632	102202	Iffo2	intermediate	Chr4: 139.5	7.8815412	25.2	Chr4: 141.0503	0.41558	67	0.0004	0	0	1
10393877	17134	81816	Mafg	v-maf muscu	Chr11: 120.(	8.5882706	12.5	Chr4: 155.8609	-0.4154	67	0.0004	0.27584	-0.145299	0.4771173
10565815	100503386		Gm4980	predicted ge	Chr7: 99.625	9.0758235	10.7	ChrX: 9.334336	0.41525	67	0.0004	0	0	1
10595570	319653	6040	Slc25a40	solute carrie	Chr9: 88.28(	7.3138823	10	ChrX: 9.334336	-0.4152	67	0.0004	0	0.1931954	0.3443483
10342510			Affy_10342!	Affymetrix M	ChrUn: 1.00	9.2374706	9.9	Chr16: 84.7875	-0.4147	67	0.0004	0	0	1
10586254	102442	55933	Dennd4a	DENN/MAD	Chr9: 64.88(	11.558024	17.9	Chr13: 63.7039	-0.4144	67	0.0004	0	-0.282735	0.1613003
10357954	329251	23754	Ppp1r12b	protein phos	Chr1: 134.8	8.6281059	10.4	Chr5: 23.88801	-0.4143	67	0.0004	0.22486	0.0933333	0.6490832
10573979	14681	39203	Gnao1	guanine nuc	Chr8: 93.81(	7.4389647	11	Chr11: 52.5203	0.41425	67	0.0004	0.27322	-0.401709	0.042906
10431738	106042	17686	Prickle1	prickle homo	Chr15: 93.45	8.4210589	14.8	Chr15: 96.1714	0.41422	67	0.0004	0.20564	-0.409915	0.0385459
10497713	58869	9562	Pex5l	peroxisomal	Chr3: 32.95(	7.5362235	12	Chr10: 113.395	0.4142	67	0.0004	0.26015	0	1
10433264	83396	12821	Glis2	GLIS family	Chr16: 4.594	8.5189765	10.4	Chr8: 76.22714	0.41407	67	0.0004	0.3282	-0.270427	0.1809393
10343818			Affy_10343(	Affymetrix M	ChrUn: 1.00	11.597847	13.4	Chr18: 15.6386	-0.414	67	0.0004	0	0	1
10444298	14969	85991	H2-Eb1	histocompat	Chr17: 34.3(	13.340659	9.5	Chr11: 50.3832	0.41374	67	0.0004	0.29049	0.2553846	0.2071637
10571860	15111	32092	Hand2	heart and ne	Chr8: 57.32(	7.7007529	10.2	Chr6: 17.63000	0.41372	67	0.0004	0.30742	0.1213675	0.5532667
10420198	56532	31410	Ripk3	receptor-inte	Chr14: 55.7(	9.6477882	9.5	Chr13: 95.7009	0.41353	67	0.0004	0.27094	0.2899641	0.1507462
10341301			Affy_10341:	Affymetrix M	ChrUn: 1.00	9.4465647	10	Chr13: 63.7039	-0.4135	67	0.0004	0	0	1
10423243	320873	68530	Cdh10	cadherin 10	Chr15: 18.8	5.9354941	13	Chr6: 139.7298	0.41333	67	0.0004	0.26753	-0.327919	0.1019618
10576417	108148	3297	Galnt2	UDP-N-acet	Chr8: 124.2	9.7497882	10.9	ChrX: 52.9510	0.41333	67	0.0004	0.27614	0.0242735	0.9069141
10594221	102747	9782	Lrrc49	leucine rich	Chr9: 60.56	7.6345882	17.9	Chr4: 6.889944	0.41313	67	0.0004	0.11655	-0.095385	0.641855
10409396	20184	9455	Uimc1	ubiquitin inte	Chr13: 55.0	9.3509176	13.8	Chr4: 9.463708	-0.4131	67	0.0004	0.27119	-0.491282	0.0116719
10588037	19659	2175	Rbp1	retinol bindi	Chr9: 98.42	8.8638706	15.5	Chr6: 125.8201	0.41261	67	0.0004	0.33129	-0.238291	0.2400204
10363735	13654	20123	Egr2	early growth	Chr10: 67.5	8.1247882	9.2	Chr18: 68.1894	0.41236	67	0.0005	0.30049	-0.116581	0.5691487
10584187	20443	4572	St3gal4	ST3 beta-ga	Chr9: 35.11(	7.2601882	10.1	Chr18: 68.9146	-0.4122	67	0.0005	0.29861	-0.010598	0.9600353
10344117			Affy_10344!	Affymetrix M	ChrUn: 1.00	10.491506	9.7	Chr11: 53.9207	-0.412	67	0.0005	0	0	1
10546891	52163	117458	Camk1	calcium/caln	Chr6: 113.3	8.9292118	20.3	Chr6: 112.0971	0.41188	67	0.0005	0.33254	-0.401026	0.0432865
10528664	66993	2314	Smarcd3	SWI/SNF re	Chr5: 24.59	7.682753	17.7	Chr16: 79.2016	0.41184	67	0.0005	0.2897	-0.349744	0.0804643
10583669	382062	87291	AB124611	cDNA seque	Chr9: 21.52(	10.838871	11.2	Chr13: 54.8790	0.41172	67	0.0005	0	-0.12344	0.547992
10590974	64931	11283	Folr4	folate recep	Chr9: 14.88	8.1079412	14.4	Chr17: 75.8810	0.41166	67	0.0005	0.33956	0.3244444	0.1061434
10501661	20383	55708	Sfrs3	serine/argini	Chr3: 116.5(	12.764459	9	Chr13: 66.8805	-0.4114	67	0.0005	0.33107	-0.142564	0.4855334
10402835	66174	11930	Nudt14	nudix (nucle	Chr12: 112.9	8.9364941	10.8	Chr9: 106.0206	0.41143	67	0.0005	0.19289	0.4878632	0.0123373
10356484	14472	1138	Gbx2	gastrulation	Chr1: 89.927	7.9512941	10.3	Chr8: 26.80497	0.41127	67	0.0005	0.24439	-0.200684	0.3240727
10426110	223775	56955	Pim3	proviral inte	Chr15: 88.8(	8.9747412	10.5	Chr4: 156.1217	0.41113	67	0.0005	0.28953	0.3497436	0.0804643
10562532	243937	8813	Zfp536	zinc finger p	Chr7: 37.31	6.2088235	13.8	Chr1: 189.0291	0.41107	67	0.0005	0.23854	-0.248931	0.2200868
10605542	71967	72569	Mageb16	melanoma a	ChrX: 79.62	7.7137529	11.5	Chr13: 63.7039	-0.411	67	0.0005	0	0	1
10467006	13380	7689	Dkk1	dickkopf WN	Chr19: 30.5(	7.3313647	12.4	ChrX: 9.334336	0.41101	67	0.0005	0.41613	0.0465037	0.8215258
10462881	107221	18769	Gpr120	G protein-co	Chr19: 38.0(	7.044353	10	Chr17: 75.8810	0.411	67	0.0005	0.30871	0.2523508	0.2136076
10579845	67687	78034	1700011L22	RIKEN cDN/	Chr8: 79.21(	7.1597412	9.6	Chr15: 82.4532	0.41096	67	0.0005	0	0.3982906	0.0448357
10499168	170643	10089	Kirrel	kin of IRRE	Chr3: 87.082	8.5835177	10.5	Chr5: 104.0858	0.41077	67	0.0005	0.25458	-0.479658	0.0140649
10413951	239027	23292	Arhgap22	Rho GTPas(	Chr14: 33.2	8.1178	14.4	Chr11: 99.7348	0.41076	67	0.0005	0.18102	-0.111795	0.5852352
10362974	209462	10807	Hace1	HECT doma	Chr10: 45.5	9.7686823	13.2	Chr13: 59.7042	-0.4105	67	0.0005	0.2814	0.1890598	0.3533494
10481147	20932	6052	Surf4	surfeit gene	Chr2: 26.92(	10.716729	17.2	Chr5: 130.4109	0.41049	67	0.0005	0.25249	0.1986325	0.3291265
10400926	104001	49654	Rtn1	reticulon 1, i	Chr12: 72.2	8.7962588	16.7	Chr17: 82.5576	0.41035	67	0.0005	0.26385	-0.342906	0.0868751
10391119	66180	4713	P3h4	prolyl 3-hydl	Chr11: 100.4	7.8702353	9.8	Chr16: 84.7875	0.41015	67	0.0005	0	0	1
10515072	29864	32195	Rnf11	ring finger p	Chr4: 109.45	10.645318	14.2	Chr4: 109.1697	-0.4101	67	0.0005	0.22259	-0.222564	0.2731862
10417568	18300	16354	Oit1	oncoprotein	Chr14: 8.348	6.7034118	11.1	Chr10: 111.073	0.41003	67	0.0005	0.286	0.2724786	0.1775541
10577152	102220		E330037G1	RIKEN cDN/	Chr8: 13.264	4.9334588	8.9	Chr3: 17.10171	-0.4098	67	0.0005	0	0	1
10603151	14758	56966	Gpm6b	glycoprotein	ChrX: 166.2	9.7907882	20	Chr17: 33.1463	0.40976	67	0.0005	0.20056	-0.41812	0.0345503
10575955	234796	32598	Klhl36	kelch-like 36	Chr8: 119.8(	8.5729647	14.1	Chr16: 85.2116	0.4094	67	0.0005	0	0	1
10569898	213027	71934	Evi5l	ecotropic vir	Chr8: 4.1665	8.2468235	13.1	Chr14: 33.7960	0.40938	67	0.0005	0.24712	0	1
10489629	104010	23148	Cdh22	cadherin 22	Chr2: 165.1	7.7151647	11.2	Chr11: 43.0713	0.40907	67	0.0005	0.24746	-0.495385	0.0109133
10527148	243328	71345	Slc29a4	solute carrie	Chr5: 142.7(	7.8665412	6.3	Chr6: 3.847191	0.409	67	0.0005	0.19909	-0.19453	0.3393792
10378627	280408	19596	Rilp	Rab interact	Chr11: 75.5	7.9664471	9.1	Chr4: 156.1837	0.40864	67	0.0005	0.15987	0.0475214	0.8176316
10342475			Affy_10342(	Affymetrix M	ChrUn: 1.00	8.8946353	12.2	Chr18: 15.6386	-0.4086	67	0.0005	0	0	1
10343957			Affy_10343!	Affymetrix M	ChrUn: 1.00	9.5445412	12.7	Chr18: 15.6386	-0.4085	67	0.0005	0	0	1
10477717	19124	4670	Procr	protein C re	Chr2: 155.75	8.3568941	15.6	Chr17: 7.71337	0.40842	67	0.0005	0.37138	-0.273209	0.1768739
10508901	100210	7006	Gpn2	GPN-loop G	Chr4: 133.5(	8.6140589	35.6	Chr4: 132.6198	0.40842	67	0.0005	0	0	1
10605324	214601	10525	Slc10a3	solute carrie	ChrX: 74.36	9.2205765	24.1	Chr17: 7.71337	0.40827	67	0.0005	0.12205	0.7059829	8.619E-05
10475957	69737	32678	Ttl	tubulin tyros	Chr2: 129.0(	7.9458353	10.4	Chr2: 128.3734	0.40821	67	0.0005	0.2334	-0.534359	0.0055473
10373000	68876	41699	Xrcc6bp1	XRCC6 bind	Chr10: 126.(	8.112153	9.6	Chr7: 73.30497	0.40817	67	0.0005	0	-0.146667	0.472938
10590918	75723	43977	Amotl1	angiomotin-l	Chr9: 14.54	8.5012941	12.5	Chr12: 16.8284	0.40792	67	0.0005	0.28881	-0.052308	0.7994896
10537078	27418	8305	Mkln1	muskelin 1,	Chr6: 31.398	10.243447	15.1	Chr16: 31.6157	-0.4078	67	0.0005	0.28135	0.2471795	0.2225239
10516064	76574	19229	Mfsd2a	major facilita	Chr4: 122.9	7.3678235	10.6	Chr1: 191.9698	0.4078	67	0.0005	0.29252	0	1
10503241	242316	40883	Gdf6	growth differ	Chr4: 9.844	8.9074941	13.7	Chr18: 71.3686	0.40777	67	0.0005	0.28755	0.3367521	0.0929734
10428796	67731	12182	Fbxo32	F-box protei	Chr15: 58.1(	9.0639294	9.4	ChrX: 114.1595	0.40773	67	0.0005	0.34454	0.0502564	0.8072527
10344789	211660	23487	Cspp1	centrosome	Chr1: 10.03	8.8235177	9.2	ChrX: 9.334336	-0.4076	67	0.0005	0.17938	0.0707692	0.7305533
10339299			Affy_10339;	Affymetrix M	ChrUn: 1.00	8.4437059	11.4	Chr4: 9.653169	-0.4076	67	0.0005	0	0	1
10393687	12009	7638	Azi1	5-azacytidin	Chr11: 120.(	7.9894353	13.1	Chr3: 38.52197	0.40755	67	0.0005	0.23015	-0.099162	0.6298389
10550706	74463		Exoc3l2	exocyst com	Chr7: 19.47	8.5038235	10.2	Chr4: 124.3858	0.40743	67	0.0005	0.20913	0.4632479	0.0181288
10373768	114679	14237	Selm	selenoprote	Chr11: 3.514	7.9070588	11.9	Chr16: 84.7875	0.40723	67	0.0005	0.29811	0.0290598	0.8884036
10564704	67666	18654	Hapln3	hyaluronan a	Chr7: 79.11	7.5464353	9.7	Chr18: 82.1067	0.40714	67	0.0005	0.23921	-0.287229	0.1548118
10562251	20266	810	Scn1b	sodium char	Chr7: 31.11(	8.4639882	14.8	Chr7: 36.76023	0.40713	67	0.0005	0.24777	-0.364786	0.0676491
10465494	67077	85555	C11orf20	human chro	Chr19: 6.92	6.7342118	11.3	Chr12: 87.1725	0.40703	67	0.0005	0	0	1
10442321	353502	9901	Hcfc1r1	host cell fac	Chr17: 23.6	9.4911882	11.4	Chr5: 127.7817	0.40693	67	0.0005	0.15355	-0.084459	0.6816507
10470948	30791	40906	Slc39a1	solute carrie	Chr2: 30.15	9.0135882	11.7	Chr15: 73.7342	0.40693	67	0.0005	0.36943	0.0468376	0.8202312
10544150	338523	25281	Jhdm1d	jumonji C do	Chr6: 39.14	11.227565	10.1	Chr1: 136.5664	-0.4067	67	0.0006	0.22326	-0.202735	0.3190673
10516518	384059	77906	Tlr12	toll-like rece	Chr4: 128.6	8.1172353	16.5	Chr4: 127.4222	0.40667	67	0.0006	0.30229	-0.020171	0.9228192
10448369	224613	72130	Flywch1	FLYWCH-ty	Chr17: 23.7	8.3955882	15.6	Chr5: 110.3859	0.40656	67	0.0006	0	0.217094	0.2853894
10377704	13543	20927	Dvl2	dishevelled	Chr11: 70.0(	8.8059295	17.6	Chr5: 43.8097(	0.40648	67	0.0006	0.27306	-0.048906	0.8124644

10495054	11853	90945	Rhoc	ras homolog	Chr3: 104.7	8.9141765	13.9	Chr17: 7.71337	0.4063	67	0.0006	0.2835	0.1719658	0.3991923
10461898	54391	115690	Rfk	riboflavin kir	Chr19: 17.3	10.613765	16.8	Chr19: 15.3286	0.4062	67	0.0006	0.24828	0.2177778	0.2838451
10443690	14652	1558	Glp1r	glucagon-lik	Chr17: 30.9	7.1468118	12.7	Chr9: 104.0411	0.40606	67	0.0006	0.31238	0.0823932	0.6881542
10339958			Affy_10339	Affymetrix M	ChrUn: 1.00	5.6404235	13.8	Chr4: 156.1837	-0.4058	67	0.0006	0	0	1
10569923	72267	11817	Lrrc8e	leucine rich	Chr8: 4.226	7.2202	14.5	Chr4: 3.390023	0.40559	67	0.0006	0	0.4871795	0.0124742
10604751	14168	3036	Fgf13	fibroblast gr	ChrX: 59.06	7.2595647	12.1	Chr8: 32.09123	0.40554	67	0.0006	0.327	-0.322393	0.1084686
10395356	403205	45551	Agr3	anterior gra	Chr12: 35.9	4.7857294	11.9	Chr12: 65.0497	0.4055	67	0.0006	0	0.1740171	0.3935181
10579307	75620		2810422J05	RIKEN cDN	Chr8: 70.51	10.124353	12.5	Chr5: 44.12328	0.40502	67	0.0006	0.11078	-0.131624	0.5199489
10363860	66859	32642	Slc16a9	solute carrie	Chr10: 70.2	9.8151647	11.9	Chr18: 45.1406	0.40483	67	0.0006	0.17452	0.0981197	0.6322677
10517967	74202	56774	Fblim1	filamin bindi	Chr4: 141.5	8.1100117	11.5	Chr12: 46.4640	0.40483	67	0.0006	0.30518	0.1384615	0.4982997
10451893	106766	9798	Stap2	signal transc	Chr17: 55.9	8.5454	10.9	Chr2: 65.86621	0.40477	67	0.0006	0.30442	0.3805128	0.0560169
10363773	69288	8892	Rhobtb1	Rho-related	Chr10: 69.2	8.5384118	6.5	Chr17: 8.19940	0.40472	67	0.0006	0.21303	-0.221197	0.2762046
10577025	19332	9856	Rab20	RAB20, mer	Chr8: 11.45	8.6298236	11.4	Chr16: 85.8070	0.40471	67	0.0006	0.26416	-0.238974	0.2386427
10432923	223918	13138	Spryd3	SPRY doma	Chr15: 102.	8.6127883	14	Chr4: 33.95404	0.40464	67	0.0006	0	-0.061197	0.7660765
10338686			Affy_10338	Affymetrix M	ChrUn: 1.00	8.3376824	13.1	Chr14: 71.2590	-0.4046	67	0.0006	0	0	1
10550730	63872	11185	Zfp296	zinc finger p	Chr7: 19.57	8.2874941	13.3	Chr5: 45.28818	0.40453	67	0.0006	0.14769	0.297094	0.1403822
10506627	230582	45506	Cyb5rl	cytochrome	Chr4: 107.0	7.4118706	12.3	Chr10: 44.3064	0.40444	67	0.0006	0	0	1
10585825	69106	31265	Stoml1	stomatin-like	Chr9: 58.25	8.972953	10.6	Chr17: 75.8810	0.4044	67	0.0006	0.13241	-0.626667	0.0007985
10558580	22286	48226	Utf1	undifferentia	Chr7: 139.9	7.1347765	10.9	Chr17: 7.70539	0.4043	67	0.0006	0.29587	0.4999145	0.0093077
10424335	75841	5222	Rnf139	ring finger p	Chr15: 58.8	10.365753	13.3	Chr13: 63.7039	-0.4042	67	0.0006	0	0.0434262	0.8331682
10505734	77739	64642	Adamtsl1	ADAMTS-lik	Chr4: 86.34	7.1911882	10.3	Chr4: 13.89710	0.40413	67	0.0006	0.2005	-0.109744	0.5921905
10373902	71962	81920	Gatsl3	GATS prote	Chr11: 4.21	8.1841177	11.5	Chr16: 24.1756	0.40393	67	0.0006	0	0	1
10500100	69769	56998	Tnfaip8l2	tumor necro	Chr3: 95.13	10.034424	14.4	Chr9: 97.32110	0.40391	67	0.0006	0.36669	0.0994872	0.6274959
10392739	237979	10406	Sdk2	sidekick cell	Chr11: 113.	8.1576823	10.5	Chr15: 10.0000	0.4039	67	0.0006	0.22423	-0.17644	0.3885666
10598467	18715	17098	Pim2	proviral inte	ChrX: 7.878	9.4204824	10.3	Chr5: 45.28818	0.40388	67	0.0006	0.32659	-0.50359	0.0095197
10364971	26396	48591	Map2k2	mitogen-acti	Chr10: 81.1	10.061424	10.7	ChrX: 57.1026	0.40384	67	0.0006	0.36567	0.4420513	0.0247731
10544837	66873	69404	Tril	TLR4 intera	Chr6: 53.81	7.7735295	15.6	ChrX: 61.0586	0.40366	67	0.0006	0.18977	0	1
10409464	56320	3236	Dbn1	drebrin 1	Chr13: 55.4	8.6214941	12	Chr17: 21.6862	0.40348	67	0.0006	0.28598	-0.135043	0.5090668
10461723	107373	49696	Fam111a	family with s	Chr19: 12.5	11.320859	15.8	Chr7: 10.35058	-0.4034	67	0.0006	0	0	1
10585318	19684	37707	Rdx	radixin	Chr9: 52.07	7.4683765	9.1	Chr5: 130.3405	-0.4034	67	0.0006	0.29129	-0.017436	0.9334393
10481312	69987	10346	1700026L06	RIKEN cDN	Chr2: 28.69	7.4830824	11.7	Chr10: 79.0158	0.40329	67	0.0006	0.20418	-0.057094	0.7814503
10364444	17123	8413	Madcam1	mucosal vas	Chr10: 79.6	8.7840706	13.7	Chr13: 40.0387	0.40323	67	0.0006	0.36536	0.2854701	0.1571528
10350766	58244	115622	Stx6	syntaxin 6	Chr1: 155.1	9.252047	9.6	Chr17: 7.71337	0.40294	67	0.0006	0.25051	-0.083077	0.6856876
10389524			Affy_10389	Affymetrix M	Chr11: 86.6	6.2634	9	Chr11: 52.5203	-0.4029	67	0.0006	0	0	1
10569313	320802		6330512M0	RIKEN cDN	Chr7: 142.3	7.9017058	10.8	Chr7: 97.69211	0.40269	67	0.0006	0	-0.092665	0.6525407
10568050	11674	68996	Aldoa	aldolase A,	Chr7: 126.7	12.327894	14.2	Chr1: 184.9098	0.40268	67	0.0006	0.34291	-0.020171	0.9228192
10477147	14950	7749	H13	histocompat	Chr2: 152.6	10.661494	17.9	Chr17: 43.8630	0.40267	67	0.0006	0.27792	0.0112821	0.9573733
10554817	14433	107053	Gapdh	glyceraldehy	Chr6: 125.1	12.901588	16.2	Chr17: 27.6370	0.40244	67	0.0006	0.38381	-0.044786	0.8280411
10467802	192236	163	Hps1	Hermansky-	Chr19: 42.7	8.8224353	11.8	Chr8: 123.2899	0.4024	67	0.0006	0.236	0.5022222	0.0097409
10366409	216345	17017	Zfc3h1	zinc finger, (	Chr10: 115.	10.201306	8.3	Chr18: 69.8621	-0.4022	67	0.0006	0	0	1
10478424	54401	20724	Ywhab	tyrosine 3-m	Chr2: 163.9	11.633659	11.2	Chr13: 59.7042	0.40215	67	0.0007	0.33292	0.1743888	0.3941941
10340574			Affy_10340	Affymetrix M	ChrUn: 1.00	6.3399765	12.5	Chr1: 151.9211	-0.4021	67	0.0007	0	0	1
10552824	20130	4565	Rras	Harvey rat s	Chr7: 45.01	10.2552	13	Chr16: 26.4221	0.40205	67	0.0007	0.33645	-0.058472	0.7766197
10353899	20353	23047	Sema4c	sema domai	Chr1: 36.54	8.7803177	9.5	Chr16: 96.3489	0.40202	67	0.0007	0.21611	-0.220513	0.2777219
10532289	57914	49476	Crlf2	cytokine rec	Chr5: 109.5	9.2202823	13.3	Chr5: 110.3859	0.40195	67	0.0007	0.37773	0	1
10559310			Affy_10559	predicted ge	Chr7: 143.5	8.0754941	14.8	Chr3: 3.074240	0.40188	67	0.0007	0	0	1
10517980	213989	27088	Tmem82	transmembr	Chr4: 141.6	7.4373294	13.4	Chr10: 82.0454	0.40185	67	0.0007	0	0.4523077	0.0213447
10339567			Affy_10339	Affymetrix M	ChrUn: 1.00	8.6805765	13.4	ChrX: 9.334336	-0.4018	67	0.0007	0	0	1
10460392	69745	10909	Pold4	polymerase	Chr19: 4.23	10.861859	11.2	Chr4: 136.6746	0.40167	67	0.0007	0.25745	0.0078632	0.9706871
10441073	16522	1688	Kcnj6	potassium ir	Chr16: 94.7	6.2628706	13.2	Chr4: 110.2018	0.40165	67	0.0007	0.23305	-0.092665	0.6525407
10581175	97440	13250	B3gnt9	UDP-GlcNA	Chr8: 105.2	8.3008	13.1	Chr3: 120.9022	0.40161	67	0.0007	0	0	1
10341785			Affy_10341	Affymetrix M	ChrUn: 1.00	7.5518353	11.6	Chr12: 84.8957	-0.4015	67	0.0007	0	0	1
10581036	57813	3392	Tk2	thymidine ki	Chr8: 104.2	9.6179294	11.3	Chr9: 78.05466	0.40153	67	0.0007	0.33667	-0.241709	0.2331849
10574480	12354	55875	Car7	carbonic anl	Chr8: 104.5	7.2541412	8.1	Chr14: 83.6406	0.40146	67	0.0007	0.26908	-0.46188	0.0185074
10570982	14182	69065	Fgfr1	fibroblast gr	Chr8: 25.51	8.6976471	12.3	ChrX: 10.6999	0.40128	67	0.0007	0.33809	-0.153504	0.4523327
10590957	14345	1538	Fut4	fucosyltrans	Chr9: 14.74	8.3664588	12.3	Chr1: 120.0611	0.40123	67	0.0007	0.25675	0.197265	0.3325226
10393887	209027	56002	Pycr1	pyrroline-5-(	Chr11: 120.(	8.0762823	8.7	Chr17: 7.70539	0.40122	67	0.0007	0.15548	0.1952137	0.337657
10393926	67880	22964	Dcxr	dicarbonyl L	Chr11: 120.	9.1631647	11	Chr9: 106.0206	0.40104	67	0.0007	0.26655	0.2464957	0.223838
10340152			Affy_10340	Affymetrix M	ChrUn: 1.00	9.7637529	13.2	Chr1: 78.93250	-0.401	67	0.0007	0	0	1
10339796			Affy_10339	Affymetrix M	ChrUn: 1.00	7.9392941	10.6	Chr12: 84.8957	-0.4008	67	0.0007	0	0	1
10496519	22253	2765	Unc5c	unc-5 homol	Chr3: 141.4	7.4696	9.9	Chr19: 14.3777	0.40082	67	0.0007	0.22276	-0.069402	0.7355963
10580473	94187	9010	Zfp423	zinc finger p	Chr8: 87.66	8.2056	9.1	Chr16: 96.3489	0.40074	67	0.0007	0.33954	-0.202735	0.3190673
10471703	75495	16510	Morn5	MORN repe	Chr2: 36.04	6.6105765	11.1	ChrX: 9.334336	0.40057	67	0.0007	0	0	1
10397359	53314	4666	Batf	basic leucin	Chr12: 85.6	8.6841412	10.5	Chr5: 130.4109	0.40044	67	0.0007	0.36313	0.0017094	0.9946693
10342294	54391	115690	Rfk	riboflavin kir	Chr19: 17.4	10.920976	13.6	Chr19: 18.1463	0.40042	67	0.0007	0.24828	0.2177778	0.2838451
10561247	192192	26700	Shkbp1	Sh3kbp1 bir	Chr7: 27.34	9.3048941	11.2	Chr17: 81.6220	0.40039	67	0.0007	0.20625	0.5213675	0.0070066
10411839	272009		Srsf12	serine/argin	Chr13: 103.	10.008247	9.5	Chr18: 69.8621	-0.4002	67	0.0007	0	0	1
10360920	21808	2432	Tgfb2	transforming	Chr1: 186.6	7.3467176	14	Chr11: 52.5203	0.40017	67	0.0007	0.35137	-0.084444	0.6807639
10425317			Affy_10425	Affymetrix M	Chr15: 79.6	8.2555176	10	Chr5: 130.3405	-0.4001	67	0.0007	0	0	1
10458760	225457		Gm4839	predicted ge	Chr18: 45.1	8.1509765	8.3	Chr5: 130.3330	0.40012	67	0.0007	0	0	1
10340587			Affy_10340	Affymetrix M	ChrUn: 1.00	7.8533882	11.3	Chr3: 105.6681	-0.4001	67	0.0007	0	0	1
10451918	66530	11538	Ubxn6	UBX domair	Chr17: 56.0	9.201047	10.3	Chr16: 28.9903	0.39984	67	0.0007	0.11646	0	1
10599696	236790	52110	Ddx26b	DEAD/H (As	ChrX: 56.45	9.4660706	10.7	Chr5: 45.28818	-0.3997	67	0.0007	0	-0.001026	0.9973346
10341638			Affy_10341	Affymetrix M	ChrUn: 1.00	7.7079411	13	Chr18: 21.3545	-0.3994	67	0.0007	0	0	1
10478884	20613	4363	Snai1	snail homol	Chr2: 167.5	8.8451176	11.3	Chr16: 32.7021	0.39928	67	0.0007	0.37197	0.1487434	0.4683334
10595848	211949	25315	Spsb4	splA/ryanod	Chr9: 96.94	7.4062706	9.5	Chr10: 111.073	0.39914	67	0.0007	0.19378	-0.160342	0.4322211
10524460	100705	74382	Acacb	acetyl-Coen	Chr5: 114.1	8.0198117	11.3	Chr7: 85.06891	0.39913	67	0.0007	0.30882	0.0769231	0.7079995
10606160	26374	116678	Rfwd2	ring finger a	Chr1: 98.46	10.225741	25.9	Chr1: 160.2850	-0.3991	67	0.0007	0.33817	0.2875214	0.154093
10468893	12982	48406	Csf2ra	colony stimu	Chr19: 61.2	9.8316706	10.7	Chr6: 135.2669	0.39864	67	0.0007	0.29202	-0.048889	0.8124382
10596664	56368	38261	Cyb561d2	cytochrome	Chr9: 107.5	9.1338589	13.3	Chr9: 97.32110	0.39846	67	0.0007	0.22897	0.0673504	0.7431812
10341844			Affy_10341	Affymetrix M	ChrUn: 1.00	7.2450235	10.3	Chr2: 168.4243	-0.3982	67	0.0007	0	0	1
10550250	70394	5127	Kptn	kaptin, actin	Chr7: 16.11	8.4746941	11.1	Chr5: 127.6171	0.39814	67	0.0007	0.19303	-0.232821	0.2512345
10596318	75686	12617	Nudt16	nudix (nucle	Chr9: 105.1	9.1613765	14.8	Chr9: 104.0411	0.39808	67	0.0007	0.24664	-0.098803	0.6298799
10604879	627734		Gm6783	predicted ge	ChrX: 66.96	5.8172706	11.9	Chr12: 65.0497	0.39805	67	0.0008	0	0	1
10567299	319622	45882	Itpripl2	inositol 1,4,5	Chr7: 118.4	8.8195765	16.1	Chr7: 117.5594	0.39799	67	0.0008	0	0	1
10527562	14842	17092	Gsx1	GS homeob	Chr5: 147.1	7.9439176	10.5	Chr7: 139.3191	0.39785	67	0.0008	0.22499	0.1555556	0.4462469
10501971	109676		Ank2	ankyrin 2, b	Chr3: 126.9	7.9962117	12	Chr6: 139.9250	0.39783	67	0.0008	0.29129	-0.489915	0.0119343
10443301	224656	2569	Zfp523	zinc finger p	Chr17: 28.1	8.1171765	11.6	Chr16: 84.7875	0.39773	67	0.0008	0.1532	-0.324444	0.1061434

10430400	105844	8728	Card10	caspase rec	Chr15: 78.7	8.2050823	13.4	Chr5: 125.6992	0.39772	67	0.0008	0.31278	0.2191453	0.2807727
10517169	73723	41824	Sh3bgrl3	SH3 domain	Chr4: 134.1	12.320871	31.3	Chr4: 133.9641	0.39768	67	0.0008	0.15813	0.2020513	0.3207304
10563085	14132	3030	Fcgrt	Fc receptor,	Chr7: 45.09	10.972188	22.8	Chr7: 40.42163	0.39768	67	0.0008	0.39255	-0.184957	0.364051
10421694			Affy_10421	Affymetrix M	Chr14: 76.6	7.0458471	9.9	Chr8: 17.03370	0.39767	67	0.0008	0	0	1
10466054	12511	4893	Cd6	CD6 antiger	Chr19: 10.7	8.9821059	14.3	Chr17: 75.8810	0.39761	67	0.0008	0.25524	0.0092308	0.9653605
10509868	74772	56940	Atp13a2	ATPase type	Chr4: 140.9	9.7957647	10.7	Chr16: 86.3477	0.39751	67	0.0008	0.20304	0.0680342	0.7406502
10593260	244859	18258	Ankk1	ankyrin repe	Chr9: 49.41	6.5070589	8.2	Chr4: 108.4902	0.39743	67	0.0008	0.17829	0.3056933	0.1288385
10366391	268345	71199	Kcnc2	potassium v	Chr10: 112.2	6.6490823	14.1	Chr15: 87.4765	0.39737	67	0.0008	0.24511	-0.100171	0.6251155
10527508	264064	55565	Cdk8	cyclin-deper	Chr5: 146.2	10.345447	17.5	Chr17: 26.2560	-0.3974	67	0.0008	0.30188	0.2916239	0.1481031
10573779	93960	12343	Nkd1	naked cuticl	Chr8: 88.52	8.4799412	23.3	Chr8: 87.26175	0.39725	67	0.0008	0.22656	-0.091966	0.6539197
10467989	240667	56708	Sec31b	Sec31 homo	Chr19: 44.5	7.2241882	14	Chr10: 55.1014	0.397	67	0.0008	0	0.111472	0.5877233
10341388			Affy_10341	Affymetrix M	ChrUn: 1.00	9.4129059	12.1	Chr18: 15.6386	-0.397	67	0.0008	0	0	1
10535065	231821	55997	Adap1	ArfGAP with	Chr5: 139.2	8.7067529	13.2	Chr7: 68.53927	0.39694	67	0.0008	0	0	1
10552874	21677	19662	Tead2	TEA domain	Chr7: 45.21	7.8395412	10.6	Chr16: 78.1332	0.39683	67	0.0008	0.3073	-0.052308	0.7994896
10446427	68767	45706	ORF19	open readin	Chr17: 66.1	8.8656823	10.6	Chr16: 85.9617	0.39681	67	0.0008	0.25524	0.0194872	0.9254731
10595407	108837	34661	Ibtk	inhibitor of E	Chr9: 85.68	11.025024	15	Chr13: 63.7039	-0.3968	67	0.0008	0.18703	0.1596581	0.4342097
10507213	100465	64826	Mobkl2c	MOB1, Mps	Chr4: 115.8	8.7216823	12.6	Chr4: 121.3971	0.39675	67	0.0008	0	0.3962393	0.0460264
10462887	110855	4521	Pde6c	phosphodies	Chr19: 38.1	6.0396823	10.6	Chr2: 156.6314	0.39674	67	0.0008	0.18934	-0.230769	0.2555281
10463482	21908	4031	Tlx1	T-cell leuke	Chr19: 45.1	9.1468706	10.3	Chr16: 84.7875	0.39664	67	0.0008	0.36023	0.3203419	0.110832
10435031	224111	45585	Ubxn7	UBX domain	Chr16: 32.3	10.561035	8.4	Chr16: 40.8060	-0.3966	67	0.0008	0	0	1
10477495	228801	50047	U46068	cDNA seque	Chr2: 154.1	6.5549647	8.5	Chr4: 13.36569	0.39658	67	0.0008	0.31257	0.3586325	0.0726836
10568436	14183	22566	Fgfr2	Fgfr2 fibrobl	Chr7: 129.4	7.4580706	16.1	Chr17: 26.8140	0.39658	67	0.0008	0.3199	0.3969231	0.0456267
10338080			Affy_10338	Affymetrix M	ChrUn: 1.00	7.3121059	11.2	Chr17: 33.1463	-0.3966	67	0.0008	0	0	1
10491780	18415	22610	Hspa4l	heat shock p	Chr3: 40.74	9.5460941	14.8	Chr16: 31.5980	-0.3965	67	0.0008	0.27112	0.0755556	0.7129912
10551181	232987	12733	B9d2	B9 protein d	Chr7: 25.68	8.1714824	14.7	Chr9: 106.0206	0.3964	67	0.0008	0.36187	-0.284786	0.1581824
10508115	74178	12542	Stk40	serine/threo	Chr4: 126.1	9.2737647	11.9	ChrX: 48.89500	0.39636	67	0.0008	0.24314	0.2184615	0.2823062
10458340	15200	1466	Hbegf	heparin-bind	Chr18: 36.5	8.4575647	11.6	Chr4: 155.6289	0.39633	67	0.0008	0.42652	-0.052308	0.7994896
10521589	66935	3589	Cir1	corepressor	Chr5: 40.32	9.2586353	11.3	Chr13: 66.8805	-0.3963	67	0.0008	0.18078	0	1
10340845			Affy_10340	Affymetrix M	ChrUn: 1.00	7.1340235	11.8	Chr18: 9.48914	-0.3963	67	0.0008	0	0	1
10393449	12702	2941	Socs3	suppressor	Chr11: 117.5	9.0025999	13.9	Chr8: 25.52048	0.39618	67	0.0008	0.34815	0.1166011	0.5705433
10471067	20204	7524	Prrx2	paired relate	Chr2: 30.84	8.2847058	11.1	Chr17: 7.71337	0.39597	67	0.0008	0.27165	-0.215726	0.2884942
10355474	381270	66199	March4	membrane-a	Chr1: 72.42	7.3218353	10.8	Chr5: 118.9181	0.39592	67	0.0008	0	-0.167863	0.4106805
10463661	93679	12795	Trim8	tripartite mo	Chr19: 46.5	9.4452706	12.6	Chr19: 32.4318	0.39584	67	0.0008	0.2448	0.1719658	0.3991923
10504106	16157	88705	Il11ra1	interleukin 1	Chr4: 41.76	8.8483647	9.2	Chr11: 52.5203	0.39578	67	0.0008	0.3771	-0.142564	0.4855334
10341703			Affy_10341	Affymetrix M	ChrUn: 1.00	7.1934	14.2	Chr1: 88.13788	-0.3958	67	0.0008	0	0	1
10558508	101631	19056	Pwwp2b	PWWP dom	Chr7: 139.2	8.3542235	12.8	Chr13: 111.021	0.39567	67	0.0008	0	0.3353846	0.0943719
10582152	74347	32494	Tldc1	TBC/LysM a	Chr8: 119.7	8.4796118	7.1	Chr9: 106.0206	0.3956	67	0.0008	0	0	1
10388234	14841	49236	Gsg2	germ cell-sp	Chr11: 73.1	7.5697177	13.9	Chr13: 59.4448	-0.3956	67	0.0008	0.24993	0.5070085	0.0089849
10424705	72665		2810039B1	RIKEN cDN	Chr15: 75.6	7.7114236	10.9	ChrX: 138.022	0.39557	67	0.0008	0	-0.446838	0.0231209
10596675	434436	45163	BY080835	cDNA seque	Chr9: 107.5	7.5639647	10.2	Chr6: 55.17067	0.39557	67	0.0008	0	0.1357265	0.5069041
10378253	55984	10327	Camkk1	calcium/caln	Chr11: 73.0	7.5710823	11.1	ChrX: 9.33433	0.3954	67	0.0008	0.28321	0.0550427	0.7891683
10430372	19354	55699	Rac2	RAS-related	Chr15: 78.5	12.037047	21.1	Chr1: 184.9098	0.39536	67	0.0008	0.34509	0.0981197	0.6322677
10490159	65112	10608	Pmepa1	prostate trar	Chr2: 173.2	9.0551177	10.5	Chr17: 6.03901	0.39531	67	0.0008	0.34387	-0.486496	0.0126123
10567995	56312	8229	Nupr1	nuclear prot	Chr7: 126.6	8.8504941	9.4	Chr2: 69.33365	0.39531	67	0.0008	0.42442	0.3928205	0.0480669
10338700	16396	88442	Itch	itchy, E3 ubi	Chr2: 155.0	7.5314235	12.4	Chr12: 88.9103	-0.3952	67	0.0008	0.34787	0.2615385	0.1961355
10364030	11540	20166	Adora2a	adenosine A	Chr10: 75.3	8.887047	12.7	Chr7: 3.078244	0.3952	67	0.0008	0.30097	-0.114891	0.5762451
10569513	79196	98024	Osbpl5	oxysterol bir	Chr7: 143.6	9.0731882	12	Chr17: 7.71337	0.39518	67	0.0008	0.22118	0.1131624	0.5806186
10445422	73836	24504	Slc35b2	solute carrie	Chr17: 45.5	8.8191647	10.1	Chr1: 97.78571	0.39508	67	0.0008	0.19432	0	1
10502823	67035	100610	Dnajb4	DnaJ (Hsp4	Chr3: 152.1	10.618423	13.5	Chr17: 9.37307	-0.395	67	0.0008	0	-0.409231	0.0388951
10339582			Affy_10339	Affymetrix M	ChrUn: 1.00	8.1243647	10.7	Chr17: 27.6370	-0.395	67	0.0008	0	0	1
10551865	233065	15555	Alkbh6	alkB, alkylat	Chr7: 30.30	8.8551882	11.9	Chr13: 40.0387	0.39479	67	0.0008	0.21659	-0.236923	0.2427919
10545096	71967	72569	Mageb16	melanoma a	Chr6: 60.77	8.3202941	13.5	Chr18: 15.6386	-0.3948	67	0.0008	0	0	1
10427895	70350	38168	Basp1	brain abund	Chr15: 25.3	9.7155294	13	Chr17: 21.6862	0.39471	67	0.0008	0.28174	-0.314872	0.1173232
10580139	212168	18183	Zswim4	zinc finger, S	Chr8: 84.21	8.5349295	11.3	ChrX: 56.17016	0.3945	67	0.0008	0.23149	0.5830057	0.0017736
10353305	545306		Gm5828	predicted ge	Chr1: 16.76	8.5744118	10.7	Chr2: 70.61318	0.39449	67	0.0008	0	0	1
10434645	75826	11005	Senp2	SUMO/sentr	Chr16: 22.0	10.280718	12.3	Chr17: 21.6862	-0.3945	67	0.0008	0.26491	0.1336752	0.513406
10370754	100503659		Dos	downstream	Chr10: 80.1	7.6035882	10.9	ChrX: 9.33433	0.39437	67	0.0009	0.26472	0.1425641	0.4855334
10394823			Affy_10394	Affymetrix M	Chr12: 18.9	8.0688235	14	Chr15: 73.7342	0.39436	67	0.0009	0	0	1
10340745			Affy_10340	Affymetrix M	ChrUn: 1.00	8.8433765	11.4	Chr17: 26.8140	-0.3942	67	0.0009	0	0	1
10530225	71521	22877	Pds5a	regulator of	Chr5: 65.61	11.620906	7.8	Chr16: 27.3607	-0.3942	67	0.0009	0.17718	0.454359	0.0207083
10452248	103775	27855	Slc25a41	solute carrie	Chr17: 57.0	6.8338823	14.7	Chr4: 13.89710	0.39401	67	0.0009	0.22812	0.1548718	0.4482705
10507250	68273	9806	Pomgnt1	protein O-lin	Chr4: 116.1	9.0580824	15.5	Chr13: 40.0305	0.39394	67	0.0009	0.20421	-0.13641	0.5047461
10465943	269060	4468	Dagla	diacylglycer	Chr19: 10.2	7.9000941	11.6	Chr13: 83.7369	0.39393	67	0.0009	0.20455	0.0283809	0.8905368
10508614	14077	68379	Fabp3	fatty acid bir	Chr4: 130.3	6.7097294	11.9	Chr12: 112.507	0.39383	67	0.0009	0.38615	-0.185641	0.3622541
10578193	67276	32651	Eri1	exoribonucle	Chr8: 35.46	10.332871	12	Chr17: 9.37307	-0.3937	67	0.0009	0.27221	0	1
10401527	16997	369	Ltbp2	latent transf	Chr12: 84.7	8.7390589	8.8	Chr11: 41.9655	0.39374	67	0.0009	0.22254	0.0239398	0.9075873
10562323	101543	64353	Wtip	WT1-interac	Chr7: 34.10	8.5506824	9.2	Chr4: 19.72631	0.39372	67	0.0009	0.27636	0.0488889	0.8124382
10586240	102442	55933	Dennd4a	DENN/MAD	Chr9: 64.86	12.248647	14.9	Chr4: 129.5721	-0.3937	67	0.0009	0	-0.282735	0.1613003
10547469	406236	74290	Hsn2	Protein HSN	Chr6: 119.9	9.6908235	10.3	Chr4: 129.5721	-0.3935	67	0.0009	0	-0.290306	0.1502434
10399036	54122	69251	Uevld	UEV and lad	Chr12: 115.8	8.7289412	8.9	ChrX: 9.33433	-0.3935	67	0.0009	0	0.1165812	0.5691487
10532828	77697	12680	Mmab	methylmalor	Chr5: 114.4	8.4840589	10.9	Chr16: 85.8070	0.39345	67	0.0009	0.28944	-0.169231	0.4068305
10387638	14166	3035	Fgf11	fibroblast gr	Chr11: 69.7	7.3251765	16.2	Chr4: 9.257136	0.39335	67	0.0009	0.2163	0.06702	0.7449576
10514779	108079	4551	Prkaa2	protein kina	Chr4: 105.0	6.9978353	6.2	Chr5: 127.7817	0.39326	67	0.0009	0.31487	0.0536752	0.7943247
10449581	56462	22807	Mtch1	mitochondria	Chr17: 29.3	10.819047	11.7	Chr13: 54.6140	0.39325	67	0.0009	0.17133	-0.124786	0.5420508
10411464	218503	9030	Fcho2	FCH domain	Chr13: 98.7	10.482329	8.3	Chr13: 67.4972	-0.3932	67	0.0009	0.16378	0.0755556	0.7129912
10529457	242939	2709	Cpz	carboxypept	Chr5: 35.502	7.5776	11.5	Chr15: 3.97790	0.39318	67	0.0009	0.22866	0.0447863	0.8280411
10488912	108687	10075	Edem2	ER degrada	Chr2: 155.7	9.7508941	14.4	Chr10: 103.562	0.39307	67	0.0009	0.12597	0.2923077	0.1471214
10384968	69556	16300	Bod1	biorientation	Chr11: 31.6	8.2245294	8.3	Chr18: 15.6386	0.39306	67	0.0009	0	0	1
10447951	21826	2438	Thbs2	thrombospo	Chr17: 14.6	9.0202235	10	Chr18: 74.7272	0.39304	67	0.0009	0.32704	-0.187692	0.3568954
10457961	67158	38341	Sft2d3	SFT2 domai	Chr18: 31.9	8.9675647	10.6	Chr5: 125.6992	0.39284	67	0.0009	0	-0.174701	0.3916371
10489246	16658	31315	Mafb	v-maf muscu	Chr2: 160.3	10.085706	18	Chr16: 32.4254	0.39281	67	0.0009	0.33009	0.0652991	0.75079
10339209	15441	7774	Hp1bp3	heterochrom	Chr4: 137.7	8.4192823	10.2	Chr19: 54.2260	-0.3927	67	0.0009	0	-0.006496	0.976015
10516481	14612	1556	Gja4	gap junction	Chr4: 127.3	8.0208118	11.6	Chr14: 100.714	0.39273	67	0.0009	0.31023	-0.232821	0.2512345
10338369			Affy_10338	Affymetrix M	ChrUn: 1.00	7.0939882	9.7	Chr4: 9.276716	-0.3925	67	0.0009	0	0	1
10495306	68753	19221	Mybphl	myosin bind	Chr3: 108.3	7.1262353	14.3	Chr9: 53.69248	0.39248	67	0.0009	0	-0.130256	0.5243336
10538857	66870	32275	Serbp1	serpine1 mF	Chr6: 67.26	12.795576	12.8	Chr8: 111.3193	-0.3925	67	0.0009	0.28217	0.2423932	0.2318338
10545372	71093	41893	Atoh8	atonal homo	Chr6: 72.20	8.3619059	16	Chr6: 72.56443	0.39215	67	0.0009	0.30249	-0.076239	0.7104939
10411502	69382	105972	1700024P0	RIKEN cDN	Chr13: 98.9	6.2274941	9.8	Chr15: 87.9889	0.392	67	0.0009	0.15112	0.0994872	0.6274959

10597748	74498	49916	Gorasp1	golgi reasse	Chr9: 119.9	8.4317294	12.2	Chr19: 40.4102	0.39174	67	0.0009	0.22143	0.1411966	0.48977
10430519	27373	121695	Csnk1e	casein kinas	Chr15: 79.4	9.5310588	9.4	Chr17: 7.7133	0.39167	67	0.0009	0.25319	-0.10906	0.594517
10338896			Affy_10338	Affymetrix M	ChrUn: 1.00	7.4950471	13.1	Chr1: 152.4345	-0.3915	67	0.0009	0	0	1
10338468			Affy_10338	Affymetrix M	ChrUn: 1.00	8.3945176	10.8	Chr4: 129.5721	-0.3914	67	0.0009	0	0	1
10549341	71177	10043	4933424B0	RIKEN cDN	Chr6: 146.5	10.149447	13.1	Chr9: 13.44251	-0.3914	67	0.0009	0.14701	0.2287179	0.25987
10520445	23950	38058	Dnajb6	DnaJ (Hsp4	Chr5: 29.73	8.4520823	10.5	Chr1: 67.77715	-0.3914	67	0.0009	0.29538	-0.018807	0.9273441
10466798	100038365		E860004J03	Affymetrix M	Chr19: 24.5	6.5744353	10.3	Chr5: 131.5410	-0.3913	67	0.0009	0	0	1
10576973	12826	20437	Col4a1	collagen, typ	Chr8: 11.19	9.3127176	11.8	Chr9: 35.21245	0.39118	67	0.0009	0.34079	-0.091282	0.6563431
10355864	74241	11574	Chpf	chondroitin	Chr1: 75.47	8.4080471	12.9	ChrX: 24.00000	0.39103	67	0.001	0.26841	-0.187009	0.3586763
10437541	27426	8466	Nagpa	N-acetylgluc	Chr16: 5.195	9.1828236	12.2	Chr6: 47.03063	0.39087	67	0.001	0.27526	0.2157265	0.2884942
10565705	18378	36195	Omp	olfactory ma	Chr7: 98.14	7.8822118	10.9	Chr3: 154.3234	0.39084	67	0.001	0.28229	-0.020855	0.9201661
10537397	192196	56737	Luc7l2	LUC7-like 2	Chr6: 38.55	11.831259	9.3	Chr5: 131.5410	-0.3906	67	0.001	0.20275	-0.365875	0.0660365
10532463	56361	5931	Pus1	pseudouridi	Chr5: 110.7	9.2375765	10	Chr4: 33.18142	0.39061	67	0.001	0.27218	0.5220513	0.0069224
10569611	14082	2836	Fadd	Fas (TNFRS	Chr7: 144.5	9.0358706	12.6	Chr2: 106.6653	0.39058	67	0.001	0.33633	0.4201709	0.0336057
10342791			Affy_10342	Affymetrix M	ChrUn: 1.00	7.4248706	9	Chr8: 121.0000	-0.3905	67	0.001	0	0	1
10340256	246703	70948	Apoa1bp	apolipoprote	Chr3: 87.86	10.706576	13	Chr17: 21.6862	0.39054	67	0.001	0.2348	-0.085812	0.6758531
10485117	26427	8058	Creb3l1	cAMP respo	Chr2: 91.98	7.8083765	10.6	Chr17: 9.37307	0.39043	67	0.001	0.34115	0.4864957	0.0126123
10499309	246703	70948	Apoa1bp	apolipoprote	Chr3: 88.05	9.9482235	9.6	Chr17: 21.6862	0.39039	67	0.001	0.2348	-0.085812	0.6758531
10350136	13007	37874	Csrp1	cysteine and	Chr1: 135.7	12.144647	27.2	Chr1: 120.0611	0.39038	67	0.001	0.32433	0.0700855	0.7330734
10400170	18760	55680	Prkd1	protein kinas	Chr12: 50.3	7.1263647	9.7	Chr17: 6.03901	0.39037	67	0.001	0.40143	-0.434262	0.0266427
10497590	14013	21086	Mecom	MDS1 and E	Chr3: 29.95	7.1318941	11.1	Chr18: 20.8347	0.39032	67	0.001	0.3704	0	1
10341552			Affy_10341	Affymetrix M	ChrUn: 1.00	9.6527647	13.5	Chr18: 15.6386	-0.3903	67	0.001	0	0	1
10338704			Affy_10338	Affymetrix M	ChrUn: 1.00	8.2438823	14.1	Chr7: 140.8751	-0.3901	67	0.001	0	0	1
10481164	227659	69236	Slc2a6	solute carrie	Chr2: 27.02	8.8193529	9	ChrX: 21.0619	0.39009	67	0.001	0.23285	-0.003077	0.9893388
10383395	27376	6519	Slc25a10	solute carrie	Chr11: 120.4	9.2279294	11	Chr11: 90.0775	0.39007	67	0.001	0.22626	0.3059829	0.1284705
10401852	75216	35315	4930534B0	RIKEN cDN	Chr12: 90.9	9.428047	11	Chr17: 21.6862	-0.3899	67	0.001	0	-0.065983	0.7482511
10393559	21858	2444	Timp2	tissue inhibi	Chr11: 118.1	10.832706	9.7	Chr2: 106.6653	0.38966	67	0.001	0.3538	-0.176068	0.3878907
10357345	210356	35542	Nckap5	NCK-associ	Chr1: 125.9	7.1961882	11.7	Chr4: 6.889944	0.38963	67	0.001	0	0	1
10407192	268706	18139	Slc38a9	solute carrie	Chr13: 112.(	10.027071	13.1	Chr4: 19.5812(	-0.3896	67	0.001	0	0	1
10474064	277414	4404	Trp53i11	transformati	Chr2: 93.18	10.650047	12.1	Chr18: 7.9767	0.3896	67	0.001	0	0.0358974	0.8620626
10365005	13144	20353	Dapk3	death-assoc	Chr10: 81.1	9.9726353	16.5	Chr13: 40.0305	0.38949	67	0.001	0.32005	-0.162079	0.4289149
10576034	15900	1629	Irf8	interferon re	Chr8: 120.7	11.305506	12.1	Chr6: 43.82681	0.38948	67	0.001	0.32569	0.3839316	0.0537111
10519209	74761	11500	Mxra8	matrix-remo	Chr4: 155.8	6.4988235	13.4	Chr4: 156.1837	0.38943	67	0.001	0.27796	-0.096752	0.6370541
10461454	69038	40931	1810006K2	RIKEN cDN	Chr19: 10.2(	8.5047294	24.3	Chr19: 10.2114	-0.3892	67	0.001	0.19014	0	1
10583316	75316	11472	Taf1d	TATA box bi	Chr9: 15.31(	10.726212	12.8	Chr16: 32.4224	-0.3892	67	0.001	0	0	1
10546421	243548	17889	Prickle2	prickle homo	Chr6: 92.375	7.7613647	14.1	Chr16: 78.1333	0.38916	67	0.001	0.19055	-0.557607	0.0035744
10423971	192190	16332	Pkhd1l1	polycystic ki	Chr15: 44.45	9.4208824	16.4	Chr13: 59.4448	-0.3891	67	0.001	0.19316	-0.032479	0.8752166
10424370	211770	75216	Trib1	tribbles hom	Chr15: 59.64	8.5066588	13.3	Chr9: 35.00112	0.38912	67	0.001	0.38954	0.3135043	0.1189894
10407122			Affy_10407	Affymetrix M	Chr13: 109.(	6.5640118	10.9	Chr11: 107.964	-0.3889	67	0.001	0	0	1
10582925	67667	44488	Alkbh8	alkB, alkylat	Chr9: 3.335	9.5994	13.9	Chr8: 111.3193	-0.3889	67	0.001	0.2281	-0.173333	0.3954043
10342941			Affy_10342	Affymetrix M	ChrUn: 1.00	8.9823882	9	Chr15: 14.3905	-0.3888	67	0.001	0	0	1
10522288	330096	47831	Shisa3	shisa homol	Chr5: 67.60	7.6490588	13.8	Chr17: 10.7208	0.38868	67	0.001	0	0	1
10429957	30840	8130	Fbxl6	F-box and le	Chr15: 76.5	9.5641176	10.4	Chr16: 86.3477	0.38865	67	0.001	0	0.3271795	0.1031018
10440433	19146	2075	Tmprss15	transmembr	Chr16: 78.9	5.7723765	8.2	ChrX: 3.23173	0.38864	67	0.001	0.34698	0	1
10412082	73274	11292	Gpbp1	GC-rich pro	Chr13: 111.4	11.037235	16.7	Chr8: 118.3806	-0.3885	67	0.001	0.2162	-0.150085	0.4625743
10414093	14661	55885	Glud1	glutamate de	Chr14: 34.3	11.705129	13	Chr13: 59.7042	0.38848	67	0.001	0.3517	0.0242735	0.9069141
10531407	17329	1813	Cxcl9	chemokine (	Chr5: 92.32	9.4739059	14.5	Chr4: 21.8558	0.38844	67	0.001	0.35128	-0.132308	0.5177634
10348653	14733	20477	Gpc1	glypican 1	Chr1: 92.83	8.6805177	11.5	Chr4: 5.599068	0.38843	67	0.001	0.28049	-0.269744	0.1820778
10512334	100042555	88705	Gm13305	predicted ge	Chr4: 42.15	8.7924823	10.2	Chr11: 52.5203	0.38841	67	0.001	0	0	1
10512356	100042555	88705	Gm13305	predicted ge	Chr4: 42.65	8.7924823	10.2	Chr11: 52.5203	0.38841	67	0.001	0	0	1
10394366	320817	86351	Atad2b	ATPase fam	Chr12: 4.91	9.7338117	8.6	Chr4: 155.8609	-0.3883	67	0.001	0	-0.04547	0.825436
10343740			Affy_10343	Affymetrix M	ChrUn: 1.00	6.9773882	9.3	Chr4: 33.18142	-0.3882	67	0.001	0	0	1
10392415	19739	2845	Rgs9	regulator of	Chr11: 109.1	7.589353	11.3	Chr11: 102.910	0.38821	67	0.001	0.28907	-0.131624	0.5199489
10469276	100038528		Gm10851	predicted ge	Chr2: 11.53(	7.9963529	8.5	Chr10: 20.0846	0.38821	67	0.001	0	0	1
10586227	102442	55933	Dennd4a	DENN/MAD	Chr9: 64.81	11.519318	17.5	Chr13: 63.7039	-0.3881	67	0.0011	0	-0.282735	0.1613003
10508128	230752	18151	Fam176b	family with s	Chr4: 126.1	8.4106824	8.2	Chr5: 131.5410	0.388	67	0.0011	0	0	1
10436253	66315	10778	Senp7	SUMO1/sen	Chr16: 56.0	9.5100706	9.6	Chr17: 57.0859	-0.388	67	0.0011	0.203	-0.244444	0.2278121
10552444	74400	74591	Zfp819	zinc finger p	Chr7: 43.60	6.6525765	15.6	Chr12: 58.9700	0.38782	67	0.0011	0.22802	0.3641026	0.0681947
10399725	20666	37733	Sox11	SRY-box co	Chr12: 27.3	6.7081294	13	Chr4: 9.276716	0.38776	67	0.0011	0.33848	-0.028376	0.8910446
10407370	67392	18889	C5orf34	human chro	Chr13: 119.4	10.148647	39.9	Chr13: 119.480	-0.3877	67	0.0011	0	0	1
10414651	619301	83921	G630016D2	RIKEN cDN	Chr14: 52.0	6.9324706	8.4	Chr13: 55.9469	0.38761	67	0.0011	0	0.2191453	0.2807727
10433214	385674	55755	Zfp174	zinc finger p	Chr16: 3.84	7.6170588	9	Chr5: 131.5410	0.38747	67	0.0011	0	0.0871795	0.6709555
10507362	70603	8156	Mutyh	mutY homol	Chr4: 116.8	8.5238471	11.2	Chr4: 109.1697	0.38745	67	0.0011	0.28867	-0.153504	0.4523327
10495613	75769	25279	Lppr5	lipid phosph	Chr3: 117.5	7.3168471	10.5	Chr13: 30.4599	0.38739	67	0.0011	0.13874	0	1
10339109			Affy_10339	Affymetrix M	ChrUn: 1.00	6.7438824	12.5	Chr15: 25.7320	-0.3874	67	0.0011	0	0	1
10343883			Affy_10343	Affymetrix M	ChrUn: 1.00	8.4435882	12.5	Chr5: 130.3405	0.38726	67	0.0011	0	0	1
10582310	192156	1843	Mvd	mevalonate	Chr8: 122.4	8.5866823	12.6	Chr12: 46.464(	0.3872	67	0.0011	0.20916	0.2690598	0.1832213
10466779	18719	100644	Pip5k1b	phosphatidy	Chr19: 24.2	9.3178471	12.4	Chr13: 59.4448	-0.3872	67	0.0011	0.29618	0.1405128	0.4918954
10529605	22393	4380	Wfs1	Wolfram syn	Chr5: 36.96	8.1137059	13.3	Chr16: 31.6157	0.38719	67	0.0011	0.36895	-0.431795	0.0286407
10579500	64296	11188	Abhd8	abhydrolase	Chr8: 71.45	8.7206117	12.9	ChrX: 164.046	0.38707	67	0.0011	0	-0.41812	0.0345503
10415282	19186	4560	Psme1	proteasome	Chr14: 55.5	12.012741	10	Chr13: 40.0387	0.38706	67	0.0011	0.27465	0.0878632	0.6685117
10338234			Affy_10338	Affymetrix M	ChrUn: 1.00	7.6378118	15.4	Chr5: 45.2881	-0.3871	67	0.0011	0	0	1
10409486	67399		Pdlim7	PDZ and LI	Chr13: 55.4	8.948953	13	Chr8: 118.3806	0.38699	67	0.0011	0.2986	0.0358974	0.8620626
10431424	140570	66630	Plxnb2	plexin B2	Chr15: 89.1	10.343482	9	Chr18: 45.1406	0.38692	67	0.0011	0.26765	0.5049573	0.0093027
10339038			Affy_10339	Affymetrix M	ChrUn: 1.00	8.4781529	15.5	Chr4: 129.5721	-0.3868	67	0.0011	0	0	1
10446656	64898	8769	Lpin2	lipin 2	Chr17: 71.1	10.106824	12.6	Chr13: 63.7039	-0.3868	67	0.0011	0.34141	0.3477518	0.0817207
10389339	237898	13066	Usp32	ubiquitin spe	Chr11: 84.9	11.187388	12.8	Chr13: 63.7039	-0.3866	67	0.0011	0.22514	-0.189744	0.3515845
10598403	54637	21412	Praf2	PRA1 doma	ChrX: 7.728	8.9178	8.5	Chr4: 9.653169	0.3866	67	0.0011	0.19074	-0.613438	0.0008605
10420516	71891	12794	Cdadc1	cytidine and	Chr14: 59.5	9.4107412	11.1	Chr16: 79.2525	-0.3866	67	0.0011	0.1832	-0.137094	0.5025926
10579525	84094	10578	Plvap	plasmalemn	Chr8: 71.49	11.059094	14.6	Chr8: 72.0184	0.38655	67	0.0011	0.35875	0.2553846	0.2071637
10548128	109246	4860	Tspan9	tetraspanin	Chr6: 127.9	9.1998118	13.5	Chr5: 130.4109	0.38623	67	0.0011	0.21868	-0.249915	0.21732
10570344	16783	4061	Lamp1	lysosomal-a	Chr8: 13.15	11.830988	13.3	Chr17: 21.6862	0.3862	67	0.0011	0.33984	0.1323077	0.5177634
10569344	16002	510	Igf2	insulin-like g	Chr7: 142.6	8.1892471	13.6	Chr8: 21.9469	0.38616	67	0.0011	0.3094	-0.444103	0.0240535
10566190	259118	122786	Olfr575	olfactory rec	Chr7: 102.9	5.9986117	10.6	Chr4: 110.2018	0.38609	67	0.0011	0	0.3360684	0.0936707
10586405	27965	9603	Spg21	spastic para	Chr9: 65.46	9.9853059	8.7	Chr17: 23.1856	0.38604	67	0.0011	0.30762	0.1323077	0.5177634
10608492	380994	86036	LOC380994		ChrY: 7.153	5.3859765	14	Chr10: 51.0000	-0.386	67	0.0011	0	0.2683761	0.1843699
10350146	27280	8233	Phlda3	pleckstrin ho	Chr1: 135.7	8.5969294	15.3	Chr4: 9.257136	0.38592	67	0.0011	0.25054	-0.152821	0.4543712
10481621	73737	41552	1110008P14	RIKEN cDN	Chr2: 32.37	8.013153	11.3	Chr16: 84.7875	0.38591	67	0.0011	0	0	1

10450374	110956		D17H6S56E	DNA segme	Chr17: 34.9	12.370894	13.2	Chr18: 15.6386	-0.3858	67	0.0011	0.15682	0.3565812	0.074425
10552156	52428	12407	Rhpn2	rhophilin, Rh	Chr7: 35.33	7.3642118	8.3	Chr5: 127.7817	0.3857	67	0.0011	0.16567	0.0735043	0.7205006
10465246	67457	32653	Frmd8	FERM doma	Chr19: 5.85	9.3225412	13.8	Chr15: 41.7881	0.38554	67	0.0011	0	0	1
10449343	268934	20230	Grm4	glutamate re	Chr17: 27.4	7.4175882	14.7	Chr10: 111.073	0.38553	67	0.0011	0.28644	-0.110427	0.5898681
10478692	170441	38551	Slc2a10	solute carrie	Chr2: 165.5	6.8462588	16	Chr12: 99.5800	0.38548	67	0.0011	0.30704	0.037265	0.8568111
10574471	68119	11486	Cmtm3	CKLF-like M	Chr8: 104.3	10.567753	13.3	ChrX: 161.5856	0.3852	67	0.0012	0.17647	-0.127521	0.5331567
10572928	75141	8628	Rasd2	RASD family	Chr8: 75.21	7.3325529	15.4	Chr7: 111.6800	0.38509	67	0.0012	0.28083	-0.157607	0.4402058
10476021	19261	7246	Sirpa	signal-regul	Chr2: 129.5	11.582824	14.2	Chr18: 45.7896	0.38492	67	0.0012	0.37938	-0.113162	0.5806186
10342215			Affy_10342	Affymetrix M	ChrUn: 1.00	10.462518	11.1	Chr13: 59.7042	-0.3849	67	0.0012	0	0	1
10454564	13872	96	Ercc3	excision rep	Chr18: 32.2	10.063212	8.7	Chr5: 131.5410	0.3848	67	0.0012	0.23754	0.2451282	0.2264821
10339751			Affy_10339	Affymetrix M	ChrUn: 1.00	8.2122824	10.1	Chr5: 130.3405	-0.3847	67	0.0012	0	0	1
10465965	67752	15863	4930579J05	RIKEN cDN	Chr19: 10.4	7.2564941	10.4	Chr8: 24.90743	0.38465	67	0.0012	0.15968	0.0748718	0.7154914
10572038	73067	16751	Tmem192	transmembr	Chr8: 64.94	9.8307294	12.8	Chr13: 54.8790	0.38451	67	0.0012	0	0	1
10355479	319695	85163	Ankar	ankyrin and	Chr1: 72.64	5.7904	12	Chr9: 94.90586	0.38444	67	0.0012	0.14884	0.0150453	0.9418481
10485151	19099	31314	Mapk8ip1	mitogen-acti	Chr2: 92.38	7.9866588	12.3	Chr1: 192.1415	0.38442	67	0.0012	0.28098	-0.102222	0.6179969
10558118	330660	77327	Btbd16	BTB (POZ)	Chr7: 130.7	6.6882353	15.9	Chr9: 108.9692	0.38439	67	0.0012	0	0.1247863	0.5420508
10508269	80284	87074	BC003266	cDNA seque	Chr4: 127.2	9.9315882	9.1	Chr13: 40.0387	0.38434	67	0.0012	0	-0.117949	0.5645899
10419356	18424	11026	Otx2	orthodenticl	Chr14: 48.6	6.0753647	19.6	Chr6: 17.6300	0.38431	67	0.0012	0.2492	0.0810256	0.693097
10506939	13858	100716	Eps15	epidermal gi	Chr4: 109.2	11.588624	15.7	Chr9: 94.90474	-0.3843	67	0.0012	0.23668	0.3757265	0.0593758
10471486	13805	92	Eng	endoglin	Chr2: 32.64	10.349118	8.3	Chr17: 82.5576	0.38426	67	0.0012	0.39732	-0.090598	0.65877
10417526	13421	3630	Dnase1l3	deoxyribonu	Chr14: 7.965	11.167529	11.4	Chr17: 75.8810	0.38424	67	0.0012	0.32234	0.2082051	0.3059568
10385426	15289	87355	Hmgb1	high mobility	Chr11: 46.2	12.600694	11.7	Chr9: 81.02033	-0.3841	67	0.0012	0.31363	0.1733333	0.3954043
10461158	83673		Snhg1	small nucleo	Chr19: 8.725	10.790294	10.6	Chr12: 88.9103	-0.3841	67	0.0012	0.11094	0	1
10385941	57783	31355	Tnip1	TNFAIP3 int	Chr11: 54.9	9.2660706	23.3	Chr11: 53.9207	0.38398	67	0.0012	0.34215	0.2102564	0.3011295
10499766	26568	11529	Slc27a3	solute carrie	Chr3: 90.385	7.8129764	7.5	Chr18: 71.3686	0.38396	67	0.0012	0.24893	0.0974359	0.6346591
10354542	227099	449	Pms1	postmeiotic	Chr1: 53.185	8.7831882	9.4	Chr5: 43.8097	-0.3839	67	0.0012	0.15771	-0.01265	0.9520507
10418096	71228	3486	Dlg5	discs, large	Chr14: 24.1	8.1564117	14.3	Chr4: 18.54908	0.38373	67	0.0012	0.18996	0.1193162	0.5600479
10515211	75173	47752	4930544O15	RIKEN cDN	Chr4: 115.7	6.5005764	14.9	Chr8: 24.90743	0.38371	67	0.0012	0	0.0680342	0.7406502
10552779	70300	11840	Fuz	fuzzy homol	Chr7: 44.89	8.5442941	12.1	Chr16: 85.8070	0.38361	67	0.0012	0.18333	-0.407863	0.0396009
10355582	319651	10858	Usp37	ubiquitin spe	Chr1: 74.43	9.0041529	12.3	Chr9: 94.90474	-0.3836	67	0.0012	0	-0.145324	0.478734
10341996			Affy_10341	Affymetrix M	ChrUn: 1.00	8.4031294	10.3	Chr12: 84.8957	-0.3834	67	0.0012	0	0	1
10341595			Affy_10341	Affymetrix M	ChrUn: 1.00	9.8087764	13.7	Chr16: 76.6575	-0.3834	67	0.0012	0	0	1
10478508	78928	6134	Pigt	phosphatidy	Chr2: 164.4	10.5614	9.3	Chr9: 65.54703	0.38335	67	0.0012	0.21524	0.2622222	0.1949359
10462752	107182	31978	Btaf1	BTAF1 RNA	Chr19: 36.9	10.532588	11	Chr13: 54.8790	-0.3831	67	0.0012	0.21928	0.4071795	0.0399577
10470913	263803	50980	Pkn3	protein kina	Chr2: 30.07	7.0178824	10.3	Chr1: 91.0978	0.3831	67	0.0012	0.23174	0.1384615	0.4982997
10555889	257914	81536	Olfr663	olfactory rec	Chr7: 104.7	5.6948588	14.4	Chr14: 19.7553	0.38305	67	0.0012	0	0.3511111	0.0792272
10341579			Affy_10341	Affymetrix M	ChrUn: 1.00	8.6367059	13.6	Chr14: 47.0603	0.38299	67	0.0012	0	0	1
10427744	75646	9199	Rai14	retinoic acid	Chr15: 10.5	9.6544118	15.4	Chr13: 59.7043	0.38299	67	0.0012	0.17117	0.1767521	0.3860254
10537657	13848	20940	Ephb6	Eph recepto	Chr6: 41.605	7.7812823	11.3	Chr16: 85.8070	0.38291	67	0.0012	0.61265	0.0064957	0.976015
10604159	194735	86026	4930430D24	RIKEN cDN	ChrX: 38.03	6.6408471	11.3	Chr19: 32.8870	0.38291	67	0.0012	0.21428	0.3340171	0.0957863
10347310	56695	75045	Pnkd	paroxysmal	Chr1: 74.284	8.2763765	15.5	Chr17: 21.6904	0.38289	67	0.0012	0.35994	-0.448205	0.0226658
10529671	117591	69290	Slc2a9	solute carrie	Chr5: 38.345	8.4497412	10.5	Chr7: 89.12328	0.3828	67	0.0013	0.29735	0.2738462	0.1753223
10561712	20733	7955	Spint2	serine prote	Chr7: 29.256	10.4228	12.8	Chr17: 26.2560	0.38279	67	0.0013	0.26709	0.4878632	0.0123373
10396346	67708	23366	AK076035	RIKEN cDN	Chr12: 72.5	7.9572	13.4	Chr11: 19.7458	0.38265	67	0.0013	0	-0.230769	0.2555281
10490212	64138	1022	Ctsz	cathepsin Z	Chr2: 174.4	12.763882	12.8	Chr11: 50.5770	0.38265	67	0.0013	0.30428	0.2526496	0.2122
10349480	226412	9108	R3hdm1	R3H domain	Chr1: 128.1	9.9603883	15.5	Chr11: 52.5203	-0.3825	67	0.0013	0	-0.098803	0.6298799
10593449	244864	18716	Layn	layilin	Chr9: 51.05	7.8290118	11.2	Chr1: 88.13788	0.3825	67	0.0013	0.15403	-0.076923	0.7079995
10578019	18221	4812	Nudc	nudC nuclea	Chr4: 30.469	10.8234	49.4	Chr4: 132.6198	-0.3825	67	0.0013	0.23357	-0.351111	0.0792272
10341671			Affy_10341	Affymetrix M	ChrUn: 1.00	12.769576	7.9	ChrX: 9.33433	-0.3824	67	0.0013	0	0	1
10528527	84652	57175	Fam126a	family with s	Chr5: 23.915	10.689847	12.9	Chr13: 59.7042	-0.3823	67	0.0013	0.27408	0	1
10593490	629557		Gm6981	predicted ps	Chr9: 52.002	12.1056	23.2	Chr6: 117.4803	0.38189	67	0.0013	0	0	1
10495574	72776	45668	Sass6	spindle asse	Chr3: 116.5	9.0085765	13.8	Chr13: 54.8790	-0.3816	67	0.0013	0.15768	0.1124786	0.5829249
10507286	16351	4309	Ipp	IAP promote	Chr4: 116.5	9.0117294	13.8	Chr17: 63.7115	-0.3816	67	0.0013	0.23455	0.2150427	0.2900547
10572456	16478	3910	Jund	Jun proto-or	Chr8: 70.69	10.225435	12.2	Chr2: 106.6653	0.38151	67	0.0013	0.42239	0	1
10512251	329828	19853	AI464131	expressed s	Chr4: 41.495	7.4165882	7.8	Chr8: 54.9598	0.38138	67	0.0013	0.21823	-0.085812	0.6758531
10599576	66496	11511	Ppdpf	pancreatic p	Chr2: 47.155	11.193282	15	Chr2: 181.0142	0.38138	67	0.0013	0	0	1
10427742	666579		Gm8174	predicted ge	Chr15: 10.5	9.019	12.1	Chr15: 73.7342	0.38133	67	0.0013	0	0	1
10508772	14191	3842	Fgr	Gardner-Ra	Chr4: 132.9	10.003165	17.6	Chr15: 74.1750	0.38133	67	0.0013	0.28989	0.265641	0.1890149
10444780	14964	110784	H2-D1	histocompat	Chr17: 35.2	12.636012	17.7	Chr17: 31.9313	0.38131	67	0.0013	0.23855	0.2225641	0.2731862
10415065	65107	8535	Lrp10	low-density	Chr14: 54.4	10.303588	12.5	Chr2: 94.2849	0.38116	67	0.0013	0.22754	0.6492308	0.000453
10558948	12476	20916	Cd151	CD151 antig	Chr7: 141.4	9.7055177	10.4	Chr18: 71.3686	0.38113	67	0.0013	0.33811	-0.020171	0.9228192
10369779	211488	13121	Ado	2-aminoetha	Chr10: 67.5	9.5531883	13.1	Chr16: 79.2529	0.38109	67	0.0013	0.21157	0	1
10393166	20446	4714	St6galnac2	ST6 (alpha-	Chr11: 116.	9.0374	30.5	Chr11: 116.541	0.38105	67	0.0013	0.26171	0.3200547	0.1109456
10586505	235439	31207	Herc1	hect (homol	Chr9: 66.35	11.0666	13.5	Chr16: 29.162	-0.381	67	0.0013	0.24738	-0.455043	0.0204997
10339983			Affy_10339	Affymetrix M	ChrUn: 1.00	5.4814823	11.7	Chr4: 156.1009	-0.3809	67	0.0013	0	0	1
10571884			Affy_10571	Affymetrix M	Chr8: 59.215	6.6784471	9.9	Chr8: 118.3806	0.38087	67	0.0013	0	0	1
10535780	14255	3040	Flt3	FMS-like tyr	Chr5: 147.3	9.6765882	15.2	Chr17: 82.5576	0.38078	67	0.0013	0.3096	0.008547	0.9680236
10500710	242125	17564	BC037703	cDNA seque	Chr3: 101.8	7.3178588	10.4	Chr15: 91.8929	0.38076	67	0.0013	0	0.2096085	0.3040879
10344939	21749	7570	Terf1	telomeric re	Chr1: 15.805	10.184776	10.8	Chr17: 26.8140	-0.3807	67	0.0013	0.20741	0.1138462	0.5783164
10400023	66109	8671	Tspan13	tetraspanin	Chr12: 36.0	12.838647	14	Chr18: 45.7800	0.38066	67	0.0013	0.2154	0.1726496	0.3972957
10463402	383450		Gm5246	predicted ge	Chr19: 44.85	7.8709059	15.8	Chr6: 63.7870	0.38055	67	0.0013	0	0	1
10546791	58911	16268	Sumf1	sulfatase mo	Chr6: 108.1	9.8421882	13.1	Chr10: 92.9245	0.38053	67	0.0013	0.34978	0.0153846	0.941412
10439063	268882	14713	Fbxo45	F-box protei	Chr16: 32.2	9.5862823	13.1	Chr17: 33.1463	-0.3803	67	0.0014	0.14984	-0.156923	0.4422145
10501222	14863	121492	Gstm2	glutathione	Chr3: 107.9	8.3363883	12.9	Chr15: 74.1750	0.3803	67	0.0014	0.32939	-0.006496	0.976015
10343124			Affy_10343	Affymetrix M	ChrUn: 1.00	6.6303176	10.9	Chr15: 3.9779	-0.3802	67	0.0014	0	0	1
10444229	14998	4464	H2-DMa	histocompat	Chr17: 34.1	10.493318	18.9	Chr17: 33.1463	0.38019	67	0.0014	0.31279	0.0735043	0.7205006
10516950	381560	23068	Xkr8	X Kell blood	Chr4: 132.7	8.318153	10.6	Chr9: 108.5006	0.38006	67	0.0014	0.17302	-0.435897	0.0270384
10406017	50916	9485	Irx4	Iroquois rela	Chr13: 73.2	7.1762471	8.1	Chr9: 108.9692	0.38004	67	0.0014	0.22274	0.28	0.165526
10596931	83669	117682	Wdr6	WD repeat	Chr9: 108.5	9.5547059	12.3	Chr15: 10.0000	0.37994	67	0.0014	0	-0.249231	0.2186131
10374197	56089	4276	Ramp3	receptor (ca	Chr11: 6.65	7.8030941	11.3	Chr4: 6.889944	0.37992	67	0.0014	0.34923	-0.170598	0.4030011
10461930	225995	49520	D030056L22	RIKEN cDN	Chr19: 18.7	9.2154588	13	Chr17: 24.2007	-0.3799	67	0.0014	0	-0.195897	0.3359402
10548871	654818	79087	Smco3	single-pass	Chr6: 136.8	6.5883647	12.6	Chr2: 80.2767	0.37988	67	0.0014	0	0	1
10431812	54003	4488	Nell2	NEL-like 2 (	Chr15: 95.0	7.0610941	10.9	Chr19: 38.0369	0.37981	67	0.0014	0.27513	-0.357949	0.0732605
10496125	56811	8681	Dkk2	dickkopf hor	Chr3: 132.0	7.3472588	15.7	Chr9: 59.9873	0.37964	67	0.0014	0.29517	0.2095726	0.3027332
10596222	252837	49474	Ccrl1	chemokine (	Chr9: 104.0	7.8592235	19.9	Chr9: 105.5568	0.37955	67	0.0014	0.29203	0.4646154	0.0177567
10361710	382450		Gm5177	predicted ps	Chr10: 10.6	11.905612	17.1	Chr17: 27.0610	0.37952	67	0.0014	0	0	1
10344952	98711	14061	Rdh10	retinol dehy	Chr1: 16.10	10.762341	18.3	Chr17: 33.1463	0.37945	67	0.0014	0.28504	0.0283761	0.8910446
10343937			Affy_10343	Affymetrix M	ChrUn: 1.00	7.7866471	16.3	Chr11: 52.5203	-0.3794	67	0.0014	0	0	1

10449731	108121	14345	U2af1	U2 small nu	Chr17: 31.6	9.8752824	12.2	Chr16: 31.598	-0.3794	67	0.0014	0.23125	0.1494273	0.4662674
10489018	170791	33614	Rbm39	RNA binding	Chr2: 156.1	11.928259	8.4	Chr6: 19.0000	-0.3793	67	0.0014	0.20281	-0.109744	0.5921905
10341710			Affy_10341	Affymetrix M	ChrUn: 1.00	7.0674588	7.5	Chr11: 52.5203	-0.3793	67	0.0014	0	0	1
10449551	240058	23266	Cpne5	copine 5	Chr17: 29.1	6.9707647	12.4	Chr4: 156.183	0.37924	67	0.0014	0.2985	0.1555556	0.4462469
10415413	277154	19483	Nynrin	NYN domair	Chr14: 55.8	7.7096706	12.6	Chr7: 97.6921	0.37908	67	0.0014	0.12407	0.0140171	0.9467302
10361075	226844	56661	Flvcr1	feline leuker	Chr1: 191.0	8.9428235	14.2	ChrX: 21.0619	0.37907	67	0.0014	0.22353	0	1
10382115	320162	16297	Ccdc45	coiled-coil d	Chr11: 106.	8.4585647	14.3	Chr13: 54.879	-0.379	67	0.0014	0	0.1617371	0.4299024
10384493	14433	107053	Gapdh	glyceraldehy	Chr6: 125.1	12.911459	18.4	Chr6: 116.943	0.37898	67	0.0014	0.38381	-0.044786	0.8280411
10525086	170756	41602	Slc24a6	solute carrie	Chr5: 120.5	9.9694118	12.4	Chr7: 4.844955	0.37898	67	0.0014	0.2815	0.0099145	0.9626977
10506225	320508	10854	Cachd1	cache doma	Chr4: 100.7	7.8579883	9.5	Chr5: 23.1526	0.37893	67	0.0014	0	0.1548718	0.4482705
10525893	78894	11322	Aacs	acetoacetyl-	Chr5: 125.4	8.9649294	10	Chr8: 123.289	0.3788	67	0.0014	0.29868	0.2328205	0.2512345
10444258	16913	56499	Psmb8	proteasome	Chr17: 34.1	10.7942	9.6	Chr9: 94.9058	0.37874	67	0.0014	0.31953	-0.129573	0.5265326
10571958	59009	10988	Sh3rf1	SH3 domain	Chr8: 61.22	8.3179412	15.4	Chr8: 75.6816	0.37874	67	0.0014	0.26505	0.4147009	0.0361723
10433929	68606	22828	Ppm1f	protein phos	Chr16: 16.9	9.1177412	12.5	Chr13: 53.477	0.37871	67	0.0014	0.16715	-0.556239	0.003671
10339875			Affy_10339	Affymetrix M	ChrUn: 1.00	8.1266	11.9	Chr16: 29.162	-0.3787	67	0.0014	0	0	1
10511282	22163	2496	Tnfrsf4	tumor necro	Chr4: 156.0	8.4705059	19.1	Chr19: 10.708	0.37869	67	0.0014	0.38495	0.0817094	0.690624
10342331			Affy_10342	Affymetrix M	ChrUn: 1.00	7.8371412	15.7	Chr18: 9.48914	-0.3787	67	0.0014	0	0	1
10552140	12606	3211	Cebpa	CCAAT/enh	Chr7: 35.11	8.6571647	15.4	Chr10: 72.780	0.37865	67	0.0014	0.33617	-0.078974	0.7005345
10489759	72043	10313	Sulf2	sulfatase 2	Chr2: 166.0	8.947353	13.4	Chr17: 82.557	0.37859	67	0.0014	0.33393	-0.122735	0.5487673
10490663	20262	7528	Stmn3	stathmin-like	Chr2: 181.3	5.9599765	13.2	Chr5: 130.333	0.37859	67	0.0014	0.25389	0.0311111	0.8804876
10354938	381259	17570	Als2cr4	amyotrophic	Chr1: 59.10	7.2623647	9.8	Chr9: 104.041	0.37848	67	0.0014	0.19293	-0.128889	0.5287362
10504775	12819	1396	Col15a1	collagen, typ	Chr4: 47.20	8.0420235	9.1	Chr9: 106.033	0.37839	67	0.0014	0.32332	-0.057778	0.7788822
10433963	69101	19062	Ydjc	YdjC homol	Chr16: 17.1	7.9221765	9.7	Chr15: 14.390	0.37835	67	0.0014	0	0.3989744	0.0444443
10493824	381493	82417	S100a7a	S100 calciu	Chr3: 90.65	7.8025882	12.8	Chr4: 105.445	0.37814	67	0.0015	0.38715	-0.080342	0.6955731
10341831			Affy_10341	Affymetrix M	ChrUn: 1.00	10.859212	15.5	Chr9: 122.015	0.37804	67	0.0015	0	0	1
10464560	67689	73890	Aldh3b1	aldehyde de	Chr19: 3.91	9.184353	11.7	Chr17: 22.879	0.37804	67	0.0015	0.18431	0.1302564	0.5243336
10344141	19156	37680	Psap	prosaposin (	Chr10: 59.7	12.934059	17.5	Chr11: 50.383	0.37791	67	0.0015	0.34648	0.0064957	0.976015
10343052			Affy_10343	Affymetrix M	ChrUn: 1.00	7.8069529	10.2	Chr17: 9.3730	-0.3778	67	0.0015	0	0	1
10358787	16782	4062	Lamc2	laminin, gan	Chr1: 153.1	7.4343647	12.7	Chr8: 17.0337	0.37782	67	0.0015	0.28797	0.1623932	0.4262854
10524020	72392	12461	Tmem175	transmembr	Chr5: 108.6	9.0101177	11.8	Chr15: 72.500	0.37777	67	0.0015	0	-0.225983	0.2657345
10349442	72949	14043	Ccnt2	cyclin T2	Chr1: 127.7	10.143282	9.5	ChrX: 9.33433	-0.3778	67	0.0015	0.25708	-0.072821	0.7230095
10513592	71354	11360	Wdr31	WD repeat (	Chr4: 62.45	7.2796471	12	Chr9: 108.969	0.37774	67	0.0015	0.1841	0.1760985	0.3895013
10448676	65962	56962	Slc9a3r2	solute carrie	Chr17: 24.6	9.3910588	14.7	Chr17: 7.7133	0.37769	67	0.0015	0.27915	-0.261538	0.1961355
10366546	70574	35367	Cpm	carboxypept	Chr10: 117.(	8.9674	14.1	Chr4: 119.798	0.37758	67	0.0015	0.23793	0.3319658	0.0979382
10344085			Affy_10344(	Affymetrix M	ChrUn: 1.00	7.5636118	8.9	Chr10: 116.64(	-0.3776	67	0.0015	0	0	1
10342286			Affy_10342	Affymetrix M	ChrUn: 1.00	6.3444471	11.3	Chr10: 80.452	-0.3775	67	0.0015	0	0	1
10343764			Affy_10343	Affymetrix M	ChrUn: 1.00	6.7691176	9	Chr15: 3.9779(	-0.3775	67	0.0015	0	0	1
10550400	434128	35491	Pnmal2	PNMA-like 2	Chr7: 16.94	7.3880588	15.8	Chr16: 32.422	0.37747	67	0.0015	0	0	1
10582330	68718	35335	Rnf166	ring finger p	Chr8: 122.4	9.7530588	12.1	Chr16: 84.787	0.37746	67	0.0015	0.17521	-0.187009	0.3586763
10442816	76483	23384	Lmf1	lipase matur	Chr17: 25.5	9.2779059	10.9	Chr5: 43.1801	0.37745	67	0.0015	0.28816	0.1022222	0.6179969
10344536			Affy_10344	Affymetrix M	ChrUn: 1.00	5.2550588	15.4	Chr4: 6.889944	-0.3774	67	0.0015	0	0	1
10388869	21927	22519	Tnfaip1	tumor necro	Chr11: 78.5	8.8061529	11.2	Chr11: 108.71	0.37736	67	0.0015	0.31141	0.1726496	0.3972957
10542287	66813	49840	Bcl2l14	BCL2-like 1	Chr6: 134.3	7.5235176	16.6	Chr6: 134.453	0.37729	67	0.0015	0.27082	0.4064957	0.0403171
10476104			Affy_10476	Affymetrix M	Chr2: 130.2	7.3008235	12.4	Chr18: 45.140	-0.3772	67	0.0015	0	0	1
10519140	26561	3424	Mmp23	matrix metal	Chr4: 155.6	8.5740706	12.7	Chr8: 95.7623	0.3772	67	0.0015	0.16768	-0.04547	0.825436
10477052	69698	12324	2310046K0	RIKEN cDN	Chr2: 151.9	7.8802588	10.2	Chr11: 50.577	0.3772	67	0.0015	0	0	1
10349249	76707	41024	Clasp1	CLIP associ	Chr1: 118.3	10.134694	14.1	Chr15: 19.105	-0.3772	67	0.0015	0.20676	-0.10906	0.594517
10598562	102941	18437	B630019K0	RIKEN cDN	ChrX: 8.892	8.2705295	9.5	Chr15: 87.454	0.37703	67	0.0015	0	0.3811966	0.0555496
10458098	225358	9585	Fam13b	family with s	Chr18: 34.4	10.195824	24.3	Chr18: 30.425	-0.377	67	0.0015	0	-0.050256	0.8072527
10338503			Affy_10338	Affymetrix M	ChrUn: 1.00	5.6464706	14.5	Chr11: 48.117	-0.377	67	0.0015	0	0	1
10472058	51869	41231	Rif1	replication ti	Chr2: 52.07	9.5304235	15.7	Chr2: 63.8762	-0.377	67	0.0015	0.18454	-0.286545	0.1558403
10555205	233552	32741	Gdpd5	glycerophos	Chr7: 99.38	8.1869059	12.2	Chr4: 3.390023	0.37694	67	0.0015	0.26737	-0.21094	0.2995311
10470109	30839	8496	Fbxw5	F-box and W	Chr2: 25.50	9.9873765	9.8	Chr15: 76.000	0.3769	67	0.0015	0.23912	-0.328547	0.1016059
10555303	70974	12374	Pgm2l1	phosphoglu	Chr7: 100.2	9.6721529	20.1	Chr7: 100.081	-0.3768	67	0.0015	0	-0.466667	0.0172104
10442311	212733	17815	Ccdc64b	coiled-coil d	Chr17: 23.6	7.7542118	15.4	Chr4: 5.599068	0.37682	67	0.0015	0.15331	0.3795521	0.0558217
10362886	331623	19511	Bend3	BEN domair	Chr10: 43.4	8.1214118	11.6	Chr10: 82.045	0.37679	67	0.0015	0	0	1
10536898	27056	8088	Irf5	interferon re	Chr6: 29.52	10.050259	9.2	Chr6: 44.0219	0.37677	67	0.0015	0.32385	0.102906	0.6156316
10565330	65098	10372	Zfand6	zinc finger, A	Chr7: 84.61	10.502682	13.2	Chr17: 26.814	-0.3768	67	0.0015	0.22083	-0.050607	0.8060601
10400762	399510	38199	Map4k5	mitogen-acti	Chr12: 69.8	10.535882	11.8	Chr13: 63.703	-0.3767	67	0.0015	0.1634	-0.016068	0.9387538
10586368	270166	4851	Clpx	caseinolytic	Chr9: 65.29	9.2557294	10.8	Chr12: 114.22	-0.3767	67	0.0015	0.28481	0.1234188	0.5465241
10564777	16576		Kif7	kinesin fami	Chr7: 79.69	7.9880942	11.6	Chr11: 52.520	0.3767	67	0.0015	0.23606	-0.014701	0.9440708
10527323	17341	7838	Bhlha15	basic helix-l	Chr5: 144.1	7.8099412	9.6	Chr10: 82.815	0.37662	67	0.0015	0.37004	0	1
10397201	52708	10918	Zfp410	zinc finger p	Chr12: 84.3	9.5259882	12.5	Chr16: 32.425	-0.3765	67	0.0015	0.1814	-0.139145	0.4961602
10585214	12955	68209	Cryab	crystallin, al	Chr9: 50.75	8.7961059	14.2	Chr4: 20.0330	0.37641	67	0.0015	0.28639	-0.369573	0.0639252
10570513	67262		2900016B0	Affymetrix M	Chr8: 15.01	8.4821765	11.6	Chr5: 125.699	0.37628	67	0.0015	0	0	1
10468668	226250	13057	Afap1l2	actin filamer	Chr19: 56.9	8.5757882	10.2	Chr18: 73.475	0.37624	67	0.0015	0	-0.022222	0.9148626
10418982	239036		4930596D0	RIKEN cDN	Chr14: 35.8	6.7816588	16.8	Chr5: 123.159	0.37618	67	0.0016	0	0.0810256	0.693097
10536444	114142	33482	Foxp2	forkhead bo	Chr6: 14.90	6.8540353	10.6	Chr9: 85.1263	0.37617	67	0.0016	0.32898	-0.408547	0.0392467
10377859	18806	55672	Pld2	phospholipa	Chr11: 70.5	8.4442118	10.5	Chr17: 43.098	0.37616	67	0.0016	0.40063	-0.06188	0.7635225
10466040	12507	7260	Cd5	CD5 antiger	Chr19: 10.7	9.4074236	12.4	Chr13: 46.973	0.37615	67	0.0016	0.37027	0.2013675	0.3223988
10535225	77998	14293	Grifin	galectin-rela	Chr5: 140.5	7.8128824	10.7	Chr13: 66.880	0.37612	67	0.0016	0.13079	-0.25265	0.2122
10498284	97064	9159	Wwtr1	WW domair	Chr3: 57.45	8.8839412	16.3	Chr16: 31.598	0.3761	67	0.0016	0.38519	-0.102906	0.6156316
10505326	50780	32440	Rgs3	regulator of	Chr4: 62.55	8.5501883	17.5	Chr4: 62.6501	0.37608	67	0.0016	0.30087	-0.450256	0.0219971
10435388	224129	11213	Adcy5	adenylate cy	Chr16: 35.1	8.1685412	9.8	Chr18: 38.156	0.37607	67	0.0016	0.3598	-0.420855	0.0332955
10340688			Affy_10340	Affymetrix M	ChrUn: 1.00	8.2279294	9.1	Chr5: 45.2881	-0.3761	67	0.0016	0	0	1
10343666			Affy_10343	Affymetrix M	ChrUn: 1.00	7.4733176	9.5	Chr3: 17.1017	-0.376	67	0.0016	0	0	1
10455335	18998	2023	Pou4f3	POU domair	Chr18: 42.3	6.8930118	11.8	Chr5: 123.165	0.37601	67	0.0016	0.26188	0.0194905	0.9247092
10569038	71345		Ano9	anoctamin 9	Chr7: 141.1	6.9321882	9.4	Chr4: 5.599068	0.37596	67	0.0016	0.22912	0	1
10345046	71877	10003	Efhc1	EF-hand do	Chr1: 20.95	7.5578353	12.8	Chr17: 55.293	0.37588	67	0.0016	0.28152	0.1159173	0.572821
10338674	65246	22857	Xpo7	exportin 7	Chr14: 71.0	12.356812	10.1	Chr18: 15.638	-0.3759	67	0.0016	0.19295	-0.151479	0.460098
10339628			Affy_10339	Affymetrix M	ChrUn: 1.00	7.5332353	9.2	Chr1: 88.1378	-0.3758	67	0.0016	0	0	1
10550860	54678	117959	Zfp108	zinc finger p	Chr7: 24.25	7.4984824	14.1	Chr4: 155.860	0.37584	67	0.0016	0.17534	-0.405812	0.040679
10411915	238831	9099	Ppwd1	peptidylproly	Chr13: 104.1	9.7320706	13.4	Chr8: 111.319	-0.3758	67	0.0016	0	0.2803898	0.1653154
10518300	21938	829	Tnfrsf1b	tumor necro	Chr4: 145.2	10.434682	10.5	Chr1: 184.909	0.37578	67	0.0016	0.36556	-0.046838	0.8202312
10394054	12516	4471	Cd7	CD7 antiger	Chr11: 121.(	10.063718	15	Chr4: 21.8558	0.37576	67	0.0016	0.31525	0.2854701	0.1571528
10380067	18952	6107	Sept4	septin 4	Chr11: 87.5	9.3157647	16.1	Chr16: 24.175	0.37568	67	0.0016	0.34417	-0.017436	0.9334393
10343876			Affy_10343	Affymetrix M	ChrUn: 1.00	8.5342236	9.3	Chr17: 40.571	0.37567	67	0.0016	0	0	1
10341511			Affy_10341	Affymetrix M	ChrUn: 1.00	7.1770235	6.8	Chr4: 155.860	-0.3756	67	0.0016	0	0	1

10421100	18040	38041	Nefm	neurofilame	Chr14: 68.1	5.9065765	14.1	Chr7: 140.875	0.37555	67	0.0016	0.24133	-0.209267	0.3048955
10571870	97165	37582	Hmgb2	high mobility	Chr8: 57.51	11.798706	13.8	Chr2: 63.8762	-0.3754	67	0.0016	0.35279	0.408547	0.0392467
10471525	329384	6135	Ptrh1	peptidyl-tRN	Chr2: 32.77	8.1451529	10.7	Chr4: 9.27671	0.37539	67	0.0016	0	0.4064957	0.0403171
10477897	228836	8935	Dlgap4	discs, large	Chr2: 156.6	8.8828941	12.6	Chr2: 136.427	0.37535	67	0.0016	0.21402	-0.241709	0.2331849
10555671	233575	121634	Pgap2	post-GPI att	Chr7: 102.2	9.6502352	32.9	Chr7: 100.081	0.37531	67	0.0016	0.1916	0	1
10473588	258767		Olfr1176	olfactory rec	Chr2: 88.33	5.0675294	9.6	Chr9: 109.865	-0.3752	67	0.0016	0	0.0331624	0.8725831
10361748	71865	12959	Fbxo30	F-box protei	Chr10: 11.2	10.474518	13.3	Chr13: 63.703	-0.3752	67	0.0016	0.21279	-0.214396	0.2929215
10420338	66645		Pspc1	paraspeckle	Chr14: 56.7	9.9017765	10	Chr13: 67.497	-0.3752	67	0.0016	0.24263	-0.241709	0.2331849
10398569	72805	49541	Zfp839	zinc finger p	Chr12: 110.8	8.5900705	11	Chr16: 31.615	0.37511	67	0.0016	0	0	1
10544452	232748	17147	Fam115c	family with s	Chr6: 42.62	7.0156353	14.5	Chr4: 13.7671	0.37505	67	0.0016	0	0	1
10420672	239133	18293	Dleu7	deleted in ly	Chr14: 62.1	7.1182118	12.2	Chr5: 118.918	0.37504	67	0.0016	0.1772	-0.122735	0.5487673
10342335			Affy_10342	Affymetrix M	ChrUn: 1.00	7.8515412	12.2	ChrX: 142.990	-0.3749	67	0.0016	0	0	1
10339542			Affy_10339	Affymetrix M	ChrUn: 1.00	7.8626588	9.8	Chr16: 34.000	-0.3749	67	0.0016	0	0	1
10343840			Affy_10343	Affymetrix M	ChrUn: 1.00	8.9238941	11.8	Chr18: 9.4891	-0.3749	67	0.0016	0	0	1
10586174			Affy_10586	Affymetrix M	Chr9: 64.17	8.8799529	9.7	Chr11: 52.520	-0.3748	67	0.0016	0	0	1
10338163			Affy_10338	Affymetrix M	ChrUn: 1.00	11.161529	10.6	Chr16: 31.598	-0.3748	67	0.0016	0	0	1
10388310	380711	56695	Rap1gap2	RAP1 GTPa	Chr11: 74.3	8.8987883	13.3	Chr17: 9.3730	0.37472	67	0.0016	0.17558	0	1
10418720	67011	12069	Mettl6	methyltransf	Chr14: 31.4	9.9615882	11.6	Chr14: 84.448	-0.3746	67	0.0016	0	0.0044452	0.9828057
10340343			Affy_10340	Affymetrix M	ChrUn: 1.00	6.0429529	11.7	Chr18: 15.638	-0.3746	67	0.0016	0	0	1
10452613	268970	18264	Arhgap28	Rho GTPas	Chr17: 67.8	7.5580706	14.2	Chr17: 7.7133	0.37454	67	0.0016	0	-0.508376	0.0087782
10526502	67286	11253	Rabl5	RAB, memb	Chr5: 136.9	9.1093176	12.1	Chr13: 40.038	0.37451	67	0.0016	0	-0.284103	0.1592168
10436658	100038676		7120432I05	RIKEN cDN	Chr16: 81.2	4.7693059	10.7	Chr17: 64.993	-0.3745	67	0.0016	0	0	1
10578071	22427	6659	Wrn	Werner syn	Chr8: 33.23	10.174518	13.7	Chr13: 56.093	-0.3745	67	0.0016	0.32415	0.2294017	0.2584174
10518882	56226	23164	Espn	espin	Chr4: 152.1	7.7857882	10.9	Chr4: 156.121	0.37447	67	0.0016	0.2681	0.4358974	0.0270384
10497994	241989	66336	Pabpc4l	poly(A) bind	Chr3: 46.44	6.9171294	8.5	Chr11: 52.520	0.37443	67	0.0016	0	0	1
10520304	242894	4180	Actr3b	ARP3 actin-	Chr5: 25.75	6.5552118	10	Chr17: 27.451	0.37442	67	0.0016	0	-0.611387	0.0009056
10341472			Affy_10341	Affymetrix M	ChrUn: 1.00	8.5098235	11.3	Chr11: 48.117	-0.3744	67	0.0016	0	0	1
10449295	67675	9305	Cuta	cutA divalen	Chr17: 26.9	11.268659	9.6	ChrX: 166.348	0.37439	67	0.0016	0.19804	-0.166496	0.4145511
10600852			mir-223	Affymetrix M	ChrX: 96.23	9.5709412	12.3	ChrX: 37.5000	-0.3744	67	0.0016	0	0	1
10554655	108797	13570	Mex3b	mex3 homol	Chr7: 82.86	8.1823294	12.4	ChrX: 56.1701	0.37414	67	0.0017	0.24119	0.1329915	0.5155824
10491455	14359	3573	Fxr1	fragile X me	Chr3: 34.02	11.024282	12.3	Chr8: 118.380	-0.3741	67	0.0017	0.30478	0.0184647	0.9286617
10425880	109270	17132	Prr5	proline rich	Chr15: 84.6	9.7429647	10.8	Chr15: 89.481	0.374	67	0.0017	0.24087	0	1
10544913	12922	55612	Crhr2	corticotropin	Chr6: 55.09	7.2117412	11.2	Chr4: 4.03602	0.37396	67	0.0017	0.28283	-0.355214	0.0756038
10341496			Affy_10341	Affymetrix M	ChrUn: 1.00	7.081	12.4	Chr5: 130.340	-0.3739	67	0.0017	0	0	1
10384838	237711	104282	Eml6	echinoderm	Chr11: 29.7	7.7323294	10.9	Chr11: 55.270	0.37388	67	0.0017	0	0	1
10406417	11465	74402	Actg1	actin, gamm	Chr11: 81.3	13.886012	20	Chr1: 184.909	0.37383	67	0.0017	0.33046	0.2259829	0.2657345
10464391	13797	3023	Emx2	empty spirac	Chr19: 59.4	6.1605529	9.6	Chr3: 57.6095	0.37381	67	0.0017	0.2883	0.3149256	0.1171115
10432799	56735	88864	Krt71	keratin 71	Chr15: 101.	7.0179059	8.4	Chr19: 37.858	0.37377	67	0.0017	0.32748	0.437265	0.0265209
10601150			Affy_10601	Affymetrix M	ChrX: 101.2	7.8836471	11.2	Chr5: 130.340	-0.3737	67	0.0017	0	0	1
10369761	28193	37401	Reep3	receptor acc	Chr10: 67.0	10.2786	15.6	Chr13: 59.704	0.37373	67	0.0017	0.17021	0.3647863	0.0676491
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