

Supplemental Table S6: 35dpf trunk RNA-seq data, genes differentially expressed between <i>nr5a1a</i> mutants and wildtypes.									
EnsemblID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	EnsemblGeneName	ZFIN_ID	ZFIN_Name
ENSDARG00000092052	26.05752373	-6.495926035	0.554347407	-11.71814994	1.02895E-31	2.18003E-27	gstk4	ZDB-GENE-060421-6530	gstk4
ENSDARG00000001975	289.4978447	-1.662620362	0.160618438	-10.35136676	4.12554E-25	3.76341E-21	hsd11b2	ZDB-GENE-030131-6030	hsd11b2
ENSDARG00000018621	310.8632036	-3.379870219	0.327289957	-10.32683755	5.32885E-25	3.76341E-21	slc6a19a.1	ZDB-GENE-070620-2	slc6a19a.1
ENSDARG00000011665	2404.031379	-1.822857494	0.177715779	-10.25715054	1.09902E-24	5.82123E-21	aldoaa	ZDB-GENE-030131-8369	aldoaa
ENSDARG00000099517	448.5743415	-1.763771238	0.178367117	-9.888432731	4.67286E-23	1.98008E-19	adssl1	ZDB-GENE-040516-18	adssl1
ENSDARG00000077236	83.05563514	-2.754783338	0.280100359	-9.834986823	7.9578E-23	2.81003E-19	hsppb6	ZDB-GENE-080214-7	hsppb6
ENSDARG00000028367	24.46912077	-3.454244621	0.364198077	-9.484521844	2.43497E-21	7.36995E-18	sult2st3	ZDB-GENE-061117-4	sult2st3
ENSDARG00000096712	145.2698687	-2.167761735	0.237293952	-9.135343371	6.51995E-20	1.72673E-16	si:dkey-193p11.2	ZDB-GENE-030131-8407	si:dkey-193p11.2
ENSDARG00000100826	254.3471364	-1.578245244	0.175810221	-8.976982303	2.78295E-19	6.55136E-16	hif1al	ZDB-GENE-040426-1315	hif1al
ENSDARG00000020239	299.4418007	-2.355286367	0.26836997	-8.776266476	1.68991E-18	3.58042E-15	lpin1	ZDB-GENE-080722-2	lpin1
ENSDARG00000007682	758.4870963	-1.975968701	0.229300688	-8.617369261	6.85099E-18	1.31956E-14	ppdpfa	ZDB-GENE-030219-204	ppdpfa
ENSDARG00000068194	97.25695768	-3.090099573	0.367294282	-8.413143702	3.99165E-17	7.0476E-14	klf9	ZDB-GENE-060526-244	klf9
ENSDARG00000033566	5.085319212	-6.411769321	0.770915093	-8.317088849	9.01502E-17	1.46924E-13	cyp17a1	ZDB-GENE-040213-2	cyp17a1
ENSDARG00000092126	11.67012718	-6.174268614	0.746713776	-8.268588065	1.35555E-16	2.05143E-13	vtg5	ZDB-GENE-001201-4	vtg5
ENSDARG00000074526	38.01897527	-3.468355095	0.421534957	-8.227918072	1.90495E-16	2.62616E-13	zbtb16b	ZDB-GENE-100923-1	zbtb16b
ENSDARG00000069377	27.32945936	-3.685041006	0.448133249	-8.223092163	1.98322E-16	2.62616E-13	si:dkey-242g16.2	ZDB-GENE-030131-8324	si:dkey-242g16.2
ENSDARG00000060797	110.737801	-1.471844609	0.186295334	-7.900598358	2.77568E-15	3.45931E-12	pfkmb	ZDB-GENE-081114-1	pfkmb
ENSDARG00000093494	34.30948456	-2.053198468	0.261071388	-7.864509718	3.70546E-15	4.36153E-12	si:ch211-217k17.9	ZDB-GENE-061207-21	si:ch211-217k17.9
ENSDARG00000070426	961.9570551	-1.609362437	0.205085376	-7.847280331	4.25156E-15	4.74094E-12	chac1	ZDB-GENE-030131-1957	chac1
ENSDARG00000055518	760.7427117	-1.6241471	0.207829396	-7.814809336	5.50463E-15	5.83133E-12	pygma	ZDB-GENE-050522-482	pygma
ENSDARG00000046053	62.50326774	-2.766591515	0.354728788	-7.799173926	6.23137E-15	6.28686E-12	slc27a6	ZDB-GENE-060825-27	slc27a6
ENSDARG00000068372	9.569120113	-7.902784367	1.016538975	-7.774206956	7.59215E-15	7.31159E-12	zgc:158427	ZDB-GENE-061215-110	zgc:158427
ENSDARG00000101749	211.071462	1.382578553	0.177989161	7.767768246	7.9881E-15	7.35843E-12	zgc:92161	ZDB-GENE-040912-22	zgc:92161
ENSDARG00000041607	158.3568523	-1.087818914	0.140933548	-7.718665472	1.17554E-14	1.03776E-11	eif4ebp3l	ZDB-GENE-030826-26	eif4ebp3l
ENSDARG00000058556	271.5131585	-2.915513156	0.379180992	-7.68897497	1.48318E-14	1.25697E-11	muc5.2	ZDB-GENE-121108-1	muc5.2
ENSDARG00000013721	2181.888068	-1.798155768	0.234919078	-7.654362459	1.94274E-14	1.58311E-11	g6pca.2	ZDB-GENE-050309-17	g6pca.2
ENSDARG00000027744	167.5747259	-2.287129893	0.302993023	-7.548457288	4.40444E-14	3.45618E-11	gadd45ba	ZDB-GENE-040426-1971	gadd45ba
ENSDARG00000075301	15.78589951	-2.870184678	0.381652936	-7.52040507	5.46068E-14	4.13198E-11	gsdf	ZDB-GENE-101029-3	gsdf
ENSDARG00000091260	132.01416	-1.423805806	0.191098466	-7.450639623	9.28888E-14	6.66045E-11	mylk4a	ZDB-GENE-120824-2	mylk4a
ENSDARG00000006137	12.64481614	-4.851086499	0.651271711	-7.448636902	9.43095E-14	6.66045E-11	star	ZDB-GENE-001120-3	star
ENSDARG00000045051	26.51522229	-2.669642372	0.359866764	-7.418418805	1.18527E-13	8.10073E-11	slc16a3	ZDB-GENE-030131-5487	slc16a3
ENSDARG00000014053	67.45986768	-2.49362585	0.337847019	-7.380931927	1.57185E-13	1.04071E-10	olfm1b	ZDB-GENE-040801-228	olfm1b
ENSDARG00000038639	20.44349338	-3.217229898	0.438688178	-7.33375108	2.23799E-13	1.41919E-10	elovl6l	ZDB-GENE-031110-3	elovl6l
ENSDARG00000058371	7784.575101	-1.113061776	0.151821001	-7.331408501	2.27746E-13	1.41919E-10	krt5	ZDB-GENE-991110-23	krt5
ENSDARG00000088524	4.051002146	-5.9668675	0.816916238	-7.304136242	2.79054E-13	1.68923E-10	acot17	ZDB-GENE-040426-2381	acot17
ENSDARG00000100352	115.3934128	-1.991579175	0.275404317	-7.231474071	4.77779E-13	2.81186E-10	aglb	ZDB-GENE-050309-54	aglb
ENSDARG00000007184	36.17916022	-2.527704873	0.35047515	-7.212222817	5.50458E-13	3.15204E-10	zbtb16a	ZDB-GENE-030131-1989	zbtb16a
ENSDARG00000069381	26.06185693	4.419730949	0.61365908	7.202257882	5.92235E-13	3.30202E-10	si:ch211-125e6.5	ZDB-GENE-070912-39	si:ch211-125e6.5
ENSDARG00000011122	141.8906159	-1.685403901	0.23583319	-7.145983395	8.93539E-13	4.85421E-10	pptc7a	ZDB-GENE-041114-74	pptc7a
ENSDARG00000075666	286.2778819	-1.840526019	0.258190029	-7.128571257	1.01416E-12	5.37176E-10	tsc22d3	ZDB-GENE-040426-1433	tsc22d3
ENSDARG00000061368	130.392681	-1.296340964	0.182999097	-7.083865342	1.40188E-12	7.03006E-10	klf13	ZDB-GENE-060929-1274	klf13
ENSDARG00000089885	53.83462165	-2.026952164	0.286194225	-7.082435594	1.41643E-12	7.03006E-10	slc16a12b	ZDB-GENE-050522-80	slc16a12b
ENSDARG00000042055	44.11375974	-2.405611905	0.339707261	-7.081426223	1.42678E-12	7.03006E-10	fam129aa	ZDB-GENE-041014-181	fam129aa
ENSDARG00000087303	376.4473634	-1.406722639	0.201112306	-6.994364122	2.66465E-12	1.28309E-09	cebpd	ZDB-GENE-020111-4	cebpd
ENSDARG00000075191	16.82518752	2.495788655	0.35898441	6.952359447	3.59227E-12	1.69132E-09	oacyl	ZDB-GENE-090710-2	oacyl
ENSDARG00000035719	47.81105902	-2.488892033	0.359443807	-6.924286867	4.38177E-12	2.01819E-09	arl5c	ZDB-GENE-040426-1866	arl5c
ENSDARG00000096739	414.1552786	1.174182696	0.170101453	6.902837551	5.09739E-12	2.29784E-09	si:dkey-219e21.2	ZDB-GENE-141215-26	si:dkey-219e21.2

ENSDARG00000079034	21.34392507	-5.12974876	0.745541181	-6.880570639	5.96133E-12	2.63131E-09	si:dkey-19b23.11	ZDB-GENE-030131-6199	si:dkey-19b23.11	
ENSDARG00000102146	120.8441344	-3.250535644	0.474587691	-6.849178158	7.42754E-12	3.21158E-09	si:ch211-69b7.6	ZDB-GENE-141212-266	si:ch211-69b7.6	
ENSDARG00000057571	846.9048483	-1.156714005	0.169211932	-6.835889137	8.1498E-12	3.40236E-09	pgam2	ZDB-GENE-040116-6	pgam2	
ENSDARG00000086856	56.76127004	-1.428072226	0.208929574	-6.835184682	8.18995E-12	3.40236E-09	stk35	ZDB-GENE-061103-553	stk35	
ENSDARG00000097556	12.12683591	-2.14464751	0.319060044	-6.721767739	1.79533E-11	7.31493E-09	cyp8b2	ZDB-GENE-080212-9	cyp8b2	
ENSDARG00000035869	920.6705713	-0.618283149	0.092180523	-6.707307871	1.98248E-11	7.78531E-09	azin1b	ZDB-GENE-030121-1	azin1b	
ENSDARG00000036830	5601.453125	-1.077204118	0.160604715	-6.707176193	1.98427E-11	7.78531E-09	krt91	ZDB-GENE-040801-181	krt91	
ENSDARG00000003109	276.1385781	1.168969332	0.174431106	6.701610512	2.06135E-11	7.94069E-09	rcan1a	ZDB-GENE-040801-135	rcan1a	
ENSDARG00000044010	76.68547307	-1.353608251	0.202329924	-6.690104082	2.23012E-11	8.43742E-09	lox12a	ZDB-GENE-070818-1	lox12a	
ENSDARG00000014179	203.5803529	-1.466298023	0.220388901	-6.653229875	2.8673E-11	1.06578E-08	pfkma	ZDB-GENE-040912-135	pfkma	
ENSDARG00000076520	26.53038433	-2.012408339	0.302687078	-6.648477878	2.96139E-11	1.08178E-08	mafb	ZDB-GENE-141211-38	mafb	
ENSDARG00000030604	41.90260072	-1.339336016	0.202154976	-6.625293345	3.46559E-11	1.23987E-08	phkg1a	ZDB-GENE-061103-385	phkg1a	
ENSDARG00000097959	167.2246746	-1.949268822	0.294302057	-6.623361184	3.51122E-11	1.23987E-08	si:dkey-248g15.3	ZDB-GENE-131127-95	si:dkey-248g15.3	
ENSDARG00000099860	1211.850691	-1.137099902	0.17274113	-6.582681871	4.62037E-11	1.60478E-08	pkmb	ZDB-GENE-040801-230	pkmb	
ENSDARG00000028725	34.31022666	-1.410994084	0.215092633	-6.559936815	5.38306E-11	1.83953E-08	adra1aa	ZDB-GENE-030131-2831	adra1aa	
ENSDARG00000069630	882.3899949	1.159916184	0.177418763	6.537731215	6.2459E-11	2.10051E-08	tat	ZDB-GENE-030131-1144	tat	
ENSDARG00000052279	103.4152063	1.400631137	0.214411124	6.532455549	6.47E-11	2.11325E-08	osgn1	ZDB-GENE-040426-864	osgn1	
ENSDARG00000097559	8.300124602	-2.80243835	0.42912074	-6.53065231	6.54839E-11	2.11325E-08	cyp8b3	ZDB-GENE-040912-153	cyp8b3	
ENSDARG00000105039	26.6577159	-2.405313605	0.368492359	-6.527445002	6.69011E-11	2.11325E-08	phka1b	ZDB-GENE-091204-81	phka1b	
ENSDARG00000069615	423.9524308	-1.565322057	0.239807337	-6.527415197	6.69144E-11	2.11325E-08	ckmt2a	ZDB-GENE-030131-5717	ckmt2a	
ENSDARG00000055412	43.67825506	-1.586852736	0.243181305	-6.525389512	6.7825E-11	2.11325E-08	mylk4b	ZDB-GENE-041001-128	mylk4b	
ENSDARG00000057032	32.90305035	1.419739658	0.218034287	6.511543116	7.43827E-11	2.2641E-08	ppm1nb	ZDB-GENE-071004-34	ppm1nb	
ENSDARG00000011245	72.2479883	-1.224129575	0.188018265	-6.510694991	7.48039E-11	2.2641E-08	esrp1	ZDB-GENE-070112-1732	esrp1	
ENSDARG00000093044	89.53704323	2.864042846	0.440666693	6.499340412	8.06729E-11	2.40735E-08	si:ch211-161h7.5	ZDB-GENE-091204-265	si:ch211-161h7.5	
ENSDARG00000012968	185.9436121	-0.702857147	0.108566377	-6.473985444	9.54511E-11	2.80878E-08	rhoub	ZDB-GENE-050417-308	rhoub	
ENSDARG00000058285	59.41922036	-1.461761936	0.226345766	-6.458092679	1.06031E-10	3.07736E-08	cpt1b	ZDB-GENE-041010-9	cpt1b	
ENSDARG00000031336	88.17168821	-1.188654884	0.184817101	-6.431519997	1.26334E-10	3.61708E-08	hsd20b2	ZDB-GENE-030804-21	hsd20b2	
ENSDARG00000015611	34.07155095	-1.436374745	0.223780277	-6.418683378	1.37458E-10	3.8831E-08	rasl11b	ZDB-GENE-040426-793	rasl11b	
ENSDARG00000069946	300.5415561	-1.101994209	0.171829384	-6.413304769	1.42398E-10	3.96973E-08	itga6b	ZDB-GENE-050320-5	itga6b	
ENSDARG00000028396	530.1083819	-4.326048281	0.677801288	-6.382472797	1.74251E-10	4.79462E-08	fkbp5	ZDB-GENE-030616-630	fkbp5	
ENSDARG00000031616	56.80693832	-1.417715628	0.222313117	-6.377111916	1.80459E-10	4.90176E-08	g6pca.1	ZDB-GENE-031001-4	g6pca.1	
ENSDARG00000001910	266.1563054	0.716301304	0.112482982	6.368086024	1.91402E-10	5.1332E-08	rorab	ZDB-GENE-040426-855	rorab	
ENSDARG00000021787	173.4913099	-1.691174279	0.266464946	-6.346704531	2.19976E-10	5.82579E-08	abcb5	ZDB-GENE-030131-6414	abcb5	
ENSDARG00000012366	48.00462376	-1.331975359	0.210073696	-6.34051472	2.28999E-10	5.98987E-08	fbp2	ZDB-GENE-040822-23	fbp2	
ENSDARG00000100691	203.3253983	1.36964504	0.216426968	6.328439815	2.47652E-10	6.39879E-08	prss35	ZDB-GENE-040704-55	prss35	
ENSDARG00000099719	14.67071504	-3.045889862	0.485072679	-6.279244312	3.40223E-10	8.68469E-08	cdkn1d	ZDB-GENE-110215-1	cdkn1d	
ENSDARG00000029497	46.63571565	-1.986385556	0.317011425	-6.265974659	3.70501E-10	9.24276E-08	tfcp2l1	ZDB-GENE-040704-58	tfcp2l1	
ENSDARG00000020298	119.7201683	-1.646312061	0.262743831	-6.26584478	3.7081E-10	9.24276E-08	btg2	ZDB-GENE-000210-15	btg2	
ENSDARG00000103826	327.7713301	-1.226552191	0.196035298	-6.256792545	3.92976E-10	9.68137E-08	gpib	ZDB-GENE-020513-3	gpib	
ENSDARG00000078309	93.4031951	-1.365039966	0.218305592	-6.252885926	4.02936E-10	9.81266E-08	fam83b	ZDB-GENE-030131-7066	fam83b	
ENSDARG00000053853	2455.738839	-1.546784244	0.249068307	-6.210281285	5.28898E-10	1.27338E-07	slc13a2	ZDB-GENE-040426-2389	slc13a2	
ENSDARG00000097205	244.3177908	-1.218452905	0.196779372	-6.191974764	5.94151E-10	1.41441E-07	ulk2	ZDB-GENE-090218-30	ulk2	
ENSDARG00000000796	190.208268	-1.334461017	0.216199738	-6.172352624	6.72812E-10	1.58388E-07	nr4a1	ZDB-GENE-040704-11	nr4a1	
ENSDARG00000017180	298.0362864	-0.67264977	0.109037583	-6.168971741	6.87355E-10	1.60033E-07	npc1	ZDB-GENE-030131-3161	npc1	
ENSDARG00000091209	71.94187003	-2.18489526	0.354798218	-6.158134827	7.36067E-10	1.69511E-07	ucp3	ZDB-GENE-040426-1317	ucp3	
ENSDARG00000041433	553.2621876	-1.81281811	0.296437152	-6.115353951	9.63429E-10	2.19486E-07	si:dkey-7c18.24	ZDB-GENE-041014-63	si:dkey-7c18.24	
ENSDARG00000088813	81.85010095	-1.42874173	0.233928909	-6.107589422	1.01147E-09	2.27979E-07	ppp1r3ab	ZDB-GENE-050309-246	ppp1r3ab	
ENSDARG00000071288	18.0809953	-1.663353287	0.272743031	-6.098609665	1.06995E-09	2.37052E-07	samhd1	ZDB-GENE-090313-386	samhd1	
ENSDARG00000104039	173.1613809	-1.25196511	0.205307811	-6.097990655	1.0741E-09	2.37052E-07	erffi1a	ZDB-GENE-030131-6256	erffi1a	

ENSDARG00000104576	178.9488895	-2.24443001	0.369491877	-6.074369012	1.24476E-09	2.71884E-07	si:ch211-152c8.5	ZDB-GENE-030131-5764	si:ch211-152c8.5	
ENSDARG00000029075	97.61254822	-1.07496489	0.17739228	-6.059817774	1.36276E-09	2.93758E-07	pfkfb4b	ZDB-GENE-031031-4	pfkfb4b	
ENSDARG00000036180	11.6321778	-3.709669329	0.612412911	-6.057464279	1.38284E-09	2.93758E-07	ccnb2	ZDB-GENE-030429-12	ccnb2	
ENSDARG00000068708	207.9882285	-0.80513097	0.132924849	-6.057038825	1.3865E-09	2.93758E-07	ifrd1	ZDB-GENE-030131-6132	ifrd1	
ENSDARG00000071076	404.0198113	-2.313821177	0.382597576	-6.047662928	1.46962E-09	3.08286E-07	ldhbb	ZDB-GENE-040718-176	ldhbb	
ENSDARG00000036848	112.7729195	-1.270467616	0.211390402	-6.010053459	1.85462E-09	3.84168E-07	slc43a2a	ZDB-GENE-040426-964	slc43a2a	
ENSDARG00000028507	704.107608	-0.97638854	0.16248983	-6.008920921	1.86762E-09	3.84168E-07	itgb4	ZDB-GENE-030131-7209	itgb4	
ENSDARG00000102572	70.05706488	-1.397063495	0.233186398	-5.991187765	2.08314E-09	4.2438E-07	si:ch211-260e23.9	ZDB-GENE-141222-48	si:ch211-260e23.9	
ENSDARG00000026771	89.17723123	-1.094556744	0.183538616	-5.963631902	2.46692E-09	4.97778E-07	tmem41ab	ZDB-GENE-040426-2050	tmem41ab	
ENSDARG00000102911	20.5409113	-1.133208667	0.19013062	-5.960158675	2.51993E-09	5.03677E-07	iffo2b	ZDB-GENE-121030-9	iffo2b	
ENSDARG00000005799	113.8297985	-0.693973132	0.116900852	-5.93642492	2.91304E-09	5.7681E-07	smim14	ZDB-GENE-040426-22	smim14	
ENSDARG00000037551	122.8325767	1.627300227	0.274206576	5.934577675	2.94603E-09	5.7794E-07	pm20d1.1	ZDB-GENE-051120-102	pm20d1.1	
ENSDARG00000063572	867.7332935	-0.685067367	0.115779206	-5.917015576	3.27836E-09	6.37234E-07	perp	ZDB-GENE-050104-1	perp	
ENSDARG00000100528	4.811134859	-5.730628403	0.982063707	-5.835291908	5.36965E-09	1.03424E-06	map1lc3c	ZDB-GENE-040426-1080	map1lc3c	
ENSDARG0000007671	217.6649865	-0.868193106	0.149849048	-5.793784603	6.88177E-09	1.31355E-06	ghrb	ZDB-GENE-071119-4	ghrb	
ENSDARG00000103380	43.34865669	1.870214065	0.323072359	5.788839598	7.08743E-09	1.34073E-06	si:ch73-21k16.1	ZDB-GENE-081031-51	si:ch73-21k16.1	
ENSDARG00000069735	21.67953976	-3.527292582	0.609579573	-5.786435004	7.18959E-09	1.34802E-06	hbaa2	ZDB-GENE-081104-38	hbaa2	
ENSDARG00000096095	9.562828454	-5.145793871	0.889934033	-5.782219444	7.37215E-09	1.37012E-06	buc	ZDB-GENE-070117-694	buc	
ENSDARG00000069498	13.38539347	-1.643594054	0.284750664	-5.77204644	7.83145E-09	1.44283E-06	phkg1b	ZDB-GENE-050522-52	phkg1b	
ENSDARG00000087093	60.60172512	-1.835302492	0.318561923	-5.761211123	8.35125E-09	1.52533E-06	si:ch211-157c3.4	ZDB-GENE-030131-8454	si:ch211-157c3.4	
ENSDARG00000000887	4.401186429	-4.112561559	0.716341341	-5.741064105	9.40835E-09	1.70371E-06	zgc:56699	ZDB-GENE-040426-2099	zgc:56699	
ENSDARG00000039093	1349.623767	-0.644698765	0.112567512	-5.727218733	1.02091E-08	1.83304E-06	got1	ZDB-GENE-040426-2003	got1	
ENSDARG00000093584	40.98829869	-2.18527081	0.381668026	-5.725579982	1.03081E-08	1.83527E-06	zgc:193505	ZDB-GENE-030131-7103	zgc:193505	
ENSDARG00000037995	6.38186848	-5.175616941	0.904827088	-5.720006632	1.0652E-08	1.8807E-06	gdf3	ZDB-GENE-980526-389	gdf3	
ENSDARG00000007465	7.343648742	-3.454009438	0.604900064	-5.710049715	1.12943E-08	1.97763E-06	tldr1	ZDB-GENE-070803-1	tldr1	
ENSDARG00000079467	9.566629182	-2.445884929	0.430683688	-5.679074911	1.35425E-08	2.35185E-06	si:ch73-15b2.5	ZDB-GENE-030131-5406	si:ch73-15b2.5	
ENSDARG00000014357	3.385509596	-4.718727798	0.831966684	-5.671774953	1.41326E-08	2.43436E-06	amh	ZDB-GENE-050706-192	amh	
ENSDARG00000054978	175.347479	1.053601058	0.185937348	5.666430487	1.45803E-08	2.49123E-06	kifc3	ZDB-GENE-030131-3724	kifc3	
ENSDARG00000020455	61.03755574	-0.935052092	0.165490273	-5.650193661	1.60267E-08	2.71646E-06	si:ch211-171h4.3	ZDB-GENE-081031-85	si:ch211-171h4.3	
ENSDARG00000051861	469.5602254	-0.906517374	0.161736185	-5.604913801	2.08359E-08	3.48184E-06	pkp3a	ZDB-GENE-060512-114	pkp3a	
ENSDARG00000103038	97.76709608	-0.846976366	0.151121053	-5.604621911	2.0871E-08	3.48184E-06	pik3r3a	ZDB-GENE-040426-1978	pik3r3a	
ENSDARG00000020114	151.9891844	-1.096233733	0.197763472	-5.54315579	2.97068E-08	4.91718E-06	slc20a1a	ZDB-GENE-040426-2217	slc20a1a	
ENSDARG00000095615	31.66633725	-1.699239094	0.306698429	-5.540423205	3.01742E-08	4.95581E-06	si:dkeyp-86h10.3	ZDB-GENE-100922-65	si:dkeyp-86h10.3	
ENSDARG00000094265	21.24000331	1.389258008	0.251666459	5.520235049	3.38547E-08	5.51753E-06	si:dkey-183n20.15	ZDB-GENE-041001-160	si:dkey-183n20.15	
ENSDARG00000054848	129.9964219	-1.137102451	0.2061534	-5.51580742	3.47182E-08	5.61508E-06	pdk4	ZDB-GENE-060503-754	pdk4	
ENSDARG00000040253	62.46944014	-1.744079694	0.316386296	-5.512500749	3.53771E-08	5.6563E-06	onecutl	ZDB-GENE-020531-1	onecutl	
ENSDARG00000069888	106.9338544	-1.03137903	0.187120115	-5.511855471	3.5507E-08	5.6563E-06	cldna	ZDB-GENE-010328-1	cldna	
ENSDARG00000106630	11.83782273	-2.104201006	0.382043354	-5.507754504	3.6344E-08	5.74642E-06	L0018627.1			
ENSDARG00000038106	119.5873487	-0.673629135	0.123374202	-5.460048563	4.76004E-08	7.47045E-06	slc37a4a	ZDB-GENE-040426-2230	slc37a4a	
ENSDARG00000097877	164.6195781	-0.698252142	0.127948858	-5.457275275	4.83496E-08	7.53224E-06	si:ch211-167b20.8	ZDB-GENE-081104-147	si:ch211-167b20.8	
ENSDARG00000089302	185.4494855	0.529320697	0.097220403	5.444543346	5.19385E-08	8.03226E-06	hnrnpa0a	ZDB-GENE-030131-2249	hnrnpa0a	
ENSDARG00000116430	5.118997162	-2.75906785	0.507543221	-5.436123928	5.44521E-08	8.35997E-06	si:ch73-329n5.2	ZDB-GENE-131121-66	si:ch73-329n5.2	
ENSDARG00000019613	383.418124	-0.635240895	0.116896948	-5.434195716	5.50441E-08	8.39007E-06	ip6k2b	ZDB-GENE-040718-85	ip6k2b	
ENSDARG00000069926	1.996948122	-4.377548307	0.805811814	-5.432469755	5.55794E-08	8.41114E-06	hsd3b1	ZDB-GENE-081105-30	hsd3b1	
ENSDARG00000042620	1601.330862	0.661952332	0.121903491	5.430134344	5.63116E-08	8.46152E-06	gstr	ZDB-GENE-090507-1	gstr	
ENSDARG00000061994	748.3631622	-0.772719341	0.142916786	-5.406778048	6.41686E-08	9.57422E-06	acacb	ZDB-GENE-060526-132	acacb	
ENSDARG00000059646	107.7855135	-0.804434424	0.148902825	-5.402412116	6.57507E-08	9.74167E-06	nt5dc2	ZDB-GENE-060810-17	nt5dc2	
ENSDARG00000003701	5.354620319	-7.012464649	1.300568411	-5.39184605	6.97375E-08	1.02606E-05	cldng	ZDB-GENE-010328-7	cldng	
ENSDARG00000094055	8.339087859	-3.187988659	0.592103253	-5.384176908	7.27769E-08	1.0634E-05	si:dkey-88l16.3	ZDB-GENE-030131-6015	si:dkey-88l16.3	

ENSDARG00000104129	10.54542637	-2.020680506	0.3767145	-5.363957333	8.14181E-08	1.17473E-05	si:dkey-23n7.10	ZDB-GENE-141222-64	si:dkey-23n7.10	
ENSDARG00000063435	84.29200412	-0.869594552	0.162123951	-5.363763641	8.15055E-08	1.17473E-05	trpm4b.2	ZDB-GENE-061214-2	trpm4b.2	
ENSDARG00000100792	1075.127895	-1.325527458	0.247193338	-5.362310613	8.21641E-08	1.17622E-05	zgc:154142	ZDB-GENE-070615-2	zgc:154142	
ENSDARG00000012609	2780.628526	-1.891129451	0.352858081	-5.359461926	8.34702E-08	1.1869E-05	hpx a			
ENSDARG00000116617	140.6580518	-0.875010889	0.163979349	-5.336104178	9.49649E-08	1.34116E-05	spaca4l	ZDB-GENE-101011-2	spaca4l	
ENSDARG00000070826	24.76807287	-1.086879872	0.203729206	-5.334924194	9.55845E-08	1.34116E-05	bpgm	ZDB-GENE-040718-375	bpgm	
ENSDARG00000076773	126.57819	1.257909176	0.236159614	5.326521141	1.00112E-07	1.39544E-05	lrrc58a	ZDB-GENE-090312-76	lrrc58a	
ENSDARG00000088762	7.59543125	-2.047466799	0.384669163	-5.322669437	-5.322669437	1.02255E-07	1.416E-05	si:ch211-224l10.4	ZDB-GENE-090312-125	si:ch211-224l10.4
ENSDARG00000098408	99.00899531	-1.072797373	0.202102257	-5.308190947	1.10719E-07	1.51853E-05	stbd1	ZDB-GENE-120817-2	stbd1	
ENSDARG00000037618	102.7295178	-2.429429454	0.457728588	-5.307576403	1.11092E-07	1.51853E-05	ddit4	ZDB-GENE-031002-35	ddit4	
ENSDARG00000034600	116.7635806	-0.594876105	0.112797535	-5.273839583	1.33599E-07	1.81446E-05	tmem165	ZDB-GENE-030131-3222	tmem165	
ENSDARG00000091234	36.40978774	-1.545506238	0.29318628	-5.271413928	1.35377E-07	1.8269E-05	si:ch73-335l21.4	ZDB-GENE-160728-105	si:ch73-335l21.4	
ENSDARG00000036840	1102.30356	-1.106969486	0.211013236	-5.245971811	1.55461E-07	2.08465E-05	krt15	ZDB-GENE-040426-2931	krt15	
ENSDARG00000055250	7.502568723	-7.106153735	1.355515812	-5.24239826	1.58503E-07	2.11207E-05	si:ch211-132b12.8	ZDB-GENE-030131-5453	si:ch211-132b12.8	
ENSDARG00000070484	185.8256424	-1.02134919	0.194988099	-5.238007845	1.62319E-07	2.14922E-05	zgc:195001	ZDB-GENE-081022-173	zgc:195001	
ENSDARG00000026348	184.5826932	0.938303934	0.179172535	5.236873699	1.63319E-07	2.14922E-05	csad	ZDB-GENE-041114-36	csad	
ENSDARG00000095434	14.43394992	-2.096260574	0.400490542	-5.234232414	1.65672E-07	2.16672E-05	si:ch211-217k17.8	ZDB-GENE-031010-46	si:ch211-217k17.8	
ENSDARG00000039828	9.65399588	-5.162756415	0.986973086	-5.230898885	1.68688E-07	2.1823E-05	zp3b	ZDB-GENE-031124-2	zp3b	
ENSDARG00000035601	42.50612471	1.263538649	0.241564779	5.230641039	1.68923E-07	2.1823E-05	dao.3	ZDB-GENE-040426-1894	dao.3	
ENSDARG00000060112	5.556578412	-3.526689742	0.676471832	-5.213357862	1.85453E-07	2.36819E-05	sybu	ZDB-GENE-060929-1202	sybu	
ENSDARG00000042904	331.8452996	-0.708213565	0.135848418	-5.213263263	1.85547E-07	2.36819E-05	foxo3b	ZDB-GENE-990708-6	foxo3b	
ENSDARG00000017049	156.2836699	-0.673218995	0.129619717	-5.193800841	2.06044E-07	2.61404E-05	adsl	ZDB-GENE-030131-6363	adsl	
ENSDARG00000040815	442.5965278	-0.748364894	0.144215611	-5.189208648	2.1119E-07	2.66338E-05	tsku	ZDB-GENE-030131-4683	tsku	
ENSDARG00000019808	212.9613834	-1.38677853	0.267321807	-5.18767454	2.12936E-07	2.66952E-05	evpla	ZDB-GENE-030829-19	evpla	
ENSDARG00000075521	137.4276146	0.527901405	0.101917874	5.179674401	2.22274E-07	2.77018E-05	cpz	ZDB-GENE-090313-267	cpz	
ENSDARG00000056379	45.52426318	-0.806570631	0.155826429	-5.176083643	2.26592E-07	2.80749E-05	si:ch73-86n18.1	ZDB-GENE-141216-19	si:ch73-86n18.1	
ENSDARG00000070914	314.0507767	-0.720712905	0.139272537	-5.174838621	2.28108E-07	2.80984E-05	dusp6	ZDB-GENE-030613-1	dusp6	
ENSDARG00000036107	853.4621967	-0.864507946	0.167283918	-5.167908297	2.36728E-07	2.89917E-05	txnipa	ZDB-GENE-030804-10	txnipa	
ENSDARG00000008454	9.086910879	-4.527646256	0.878677827	-5.152794481	2.56633E-07	3.12488E-05	cpeb1b	ZDB-GENE-990927-1	cpeb1b	
ENSDARG00000038321	112.5910405	1.243289944	0.24151862	5.147801635	2.63557E-07	3.18121E-05	zgc:172053	ZDB-GENE-080219-25	zgc:172053	
ENSDARG00000076830	215.6169605	-2.266528039	0.440395755	-5.146571039	2.65291E-07	3.18121E-05	si:dkey-65b12.6	ZDB-GENE-060526-329	si:dkey-65b12.6	
ENSDARG00000041699	9.842091584	-3.04449311	0.591596017	-5.146236657	2.65764E-07	3.18121E-05	piwil1	ZDB-GENE-030813-2	piwil1	
ENSDARG00000099247	5.252380094	-4.023810014	0.783304063	-5.13697069	2.79202E-07	3.32329E-05	si:dkey-68o6.5	ZDB-GENE-030131-5416	si:dkey-68o6.5	
ENSDARG00000013946	92.34589176	-0.838516914	0.163317687	-5.134268843	2.83243E-07	3.35255E-05	ivns1abpb	ZDB-GENE-030131-6266	ivns1abpb	
ENSDARG00000098742	8.39629881	-1.712186086	0.333871062	-5.128285372	2.92393E-07	3.44163E-05	lrrtm1	ZDB-GENE-161221-2	lrrtm1	
ENSDARG00000004451	56.88307859	0.706255241	0.139410089	5.066026766	4.06205E-07	4.75484E-05	tnfrsfa	ZDB-GENE-010802-1	tnfrsfa	
ENSDARG00000103642	2103.626207	2.069387211	0.408667961	5.063737332	4.11116E-07	4.78147E-05	pglyrp6	ZDB-GENE-071227-2	pglyrp6	
ENSDARG00000102435	18.71855072	1.521115956	0.300445435	5.062869249	4.12993E-07	4.78147E-05	plekhf1	ZDB-GENE-040426-1289	plekhf1	
ENSDARG00000095147	12.42051998	1.904674595	0.377315515	5.047962565	4.46547E-07	5.14184E-05	krt96	ZDB-GENE-030131-221	krt96	
ENSDARG00000020749	8.084687246	-4.411466235	0.874874854	-5.042396879	4.59737E-07	5.2651E-05	caprin2	ZDB-GENE-040812-2	caprin2	
ENSDARG000000101043	649.4205147	-0.92313099	0.183387482	-5.033773186	4.80919E-07	5.47808E-05	ppl	ZDB-GENE-041008-196	ppl	
ENSDARG00000074289	16.57294797	-3.656064937	0.726897934	-5.029681292	4.91296E-07	5.56635E-05	tuba4l	ZDB-GENE-030131-5588	tuba4l	
ENSDARG00000077982	114.4860993	0.915110293	0.182115793	5.024881577	5.03743E-07	5.67703E-05	elf3	ZDB-GENE-030131-8760	elf3	
ENSDARG00000087641	52.46204428	-0.850437829	0.169674979	-5.012158152	5.38229E-07	6.03358E-05	cdh26.2	ZDB-GENE-100922-183	cdh26.2	
ENSDARG0000004060	687.1204511	0.616966653	0.123148459	5.009942142	5.44464E-07	6.07135E-05	bhlhe40	ZDB-GENE-030131-3133	bhlhe40	
ENSDARG00000061896	168.2407073	-1.126727716	0.225016135	-5.00731966	5.51932E-07	6.1224E-05	slco2a1	ZDB-GENE-060606-3	slco2a1	
ENSDARG00000108535	253.628981	-0.786936226	0.157343263	-5.001397652	5.69162E-07	6.28064E-05	CABZ01072077.1			
ENSDARG00000069335	58.73605119	0.79251875	0.158844962	4.989259595	6.06112E-07	6.65372E-05	bcl6b	ZDB-GENE-120907-1	bcl6b	
ENSDARG00000031702	65.91818218	-1.127766921	0.226196074	-4.985793519	6.1708E-07	6.73922E-05	prkg1b	ZDB-GENE-080225-40	prkg1b	

ENSDARG0000016011	526.7834959	-0.715673149	0.143734515	-4.979132174	6.387E-07	6.90552E-05	gpcpd1	ZDB-GENE-060503-472	gpcpd1	
ENSDARG0000069734	26.05122144	-3.292018447	0.661168173	-4.979093948	6.38826E-07	6.90552E-05	hbba2	ZDB-GENE-040801-164	hbba2	
ENSDARG0000003820	236.1325412	-2.008138054	0.403422561	-4.977753468	6.43265E-07	6.9182E-05	nr1d2a	ZDB-GENE-040504-1	nr1d2a	
ENSDARG00000034181	79.02328018	-1.134752362	0.228253791	-4.971450225	6.64539E-07	7.11091E-05	esr2b	ZDB-GENE-030116-1	esr2b	
ENSDARG00000025428	76.81668131	-1.744078767	0.351234269	-4.965571196	6.84992E-07	7.26894E-05	socs3a	ZDB-GENE-030131-7349	socs3a	
ENSDARG00000034503	232.8437607	1.472493335	0.296560487	4.96523778	6.86169E-07	7.26894E-05	per2	ZDB-GENE-011220-2	per2	
ENSDARG00000098761	25.45616945	-1.677729146	0.338438773	-4.95726045	7.14941E-07	7.53605E-05	rgs2	ZDB-GENE-040718-410	rgs2	
ENSDARG00000101557	144.4577058	-1.014570391	0.204919998	-4.951056037	7.38118E-07	7.74184E-05	scarb1	ZDB-GENE-031126-1	scarb1	
ENSDARG00000104387	80.84747029	-1.230002726	0.248598555	-4.947746885	7.50774E-07	7.83579E-05	si:ch211-48m9.1	ZDB-GENE-060531-64	si:ch211-48m9.1	
ENSDARG00000063905	60057.67386	-0.423050531	0.085584204	-4.943091277	7.68935E-07	7.98599E-05	mt-co1	ZDB-GENE-011205-14	mt-co1	
ENSDARG00000100020	197.1381125	-0.932346489	0.18866001	-4.941940204	7.73489E-07	7.99411E-05	pim1	ZDB-GENE-061013-139	pim1	
ENSDARG00000092162	30.65475356	1.167696241	0.236980292	4.927398105	8.33319E-07	8.57064E-05	mhc1zaa	ZDB-GENE-030916-1	mhc1zaa	
ENSDARG00000090903	94.82860882	-1.114029568	0.226299444	-4.922811765	8.53095E-07	8.73165E-05	creb3l3b	ZDB-GENE-131023-1	creb3l3b	
ENSDARG00000012981	35.31998732	-1.29602832	0.263904909	-4.910967079	9.06283E-07	9.21689E-05	osbpl7	ZDB-GENE-041010-212	osbpl7	
ENSDARG00000112959	360.547733	-0.919286364	0.187214549	-4.910336125	9.09204E-07	9.21689E-05	CABZ01072309.1			
ENSDARG00000037836	118.581727	-1.348289474	0.275128032	-4.900589237	9.55496E-07	9.64005E-05	igfals	ZDB-GENE-061009-25	igfals	
ENSDARG00000056462	7.944938204	-4.56806969	0.936070522	-4.880048652	1.0606E-06	0.000106497	crp2	ZDB-GENE-030131-5826	crp2	
ENSDARG00000055514	80.7496699	-1.07701348	0.220865875	-4.876323598	1.08081E-06	0.000108015	icn2	ZDB-GENE-070822-9	icn2	
ENSDARG00000043394	29.15709852	-1.009215713	0.207169911	-4.871439629	1.10788E-06	0.0001102	si:dkey-71h2.2	ZDB-GENE-041014-145	si:dkey-71h2.2	
ENSDARG00000032618	63.10175182	0.878330423	0.180416402	4.868351281	1.12533E-06	0.000111413	mgst1.1	ZDB-GENE-041010-30	mgst1.1	
ENSDARG00000013856	7064.840046	1.193051486	0.245144062	4.866736211	1.13456E-06	0.000111805	amy2a	ZDB-GENE-040426-2393	amy2a	
ENSDARG00000077288	11.99470152	-2.244709646	0.463933186	-4.838433023	1.30867E-06	0.000128365	si:ch211-188c16.1	ZDB-GENE-070912-162	si:ch211-188c16.1	
ENSDARG00000101652	16.96255046	-1.736702731	0.359694958	-4.828265433	1.37727E-06	0.000134471	haus6	ZDB-GENE-030131-5517	haus6	
ENSDARG00000044356	113.8995464	-0.833513398	0.172842679	-4.822381856	1.41854E-06	0.000137865	tp63	ZDB-GENE-030819-1	tp63	
ENSDARG0000007086	193.6672324	-1.074926464	0.22390864	-4.800736881	1.58083E-06	0.00015241	aqp10a	ZDB-GENE-040718-40	aqp10a	
ENSDARG00000070052	9.515912892	-2.451630327	0.510701506	-4.800515174	1.58258E-06	0.00015241	tldr6	ZDB-GENE-041001-210	tldr6	
ENSDARG00000057687	16.22314425	-1.515037632	0.31687613	-4.781166797	1.74281E-06	0.000166435	sbk3	ZDB-GENE-080204-39	sbk3	
ENSDARG00000056836	305.2568583	-1.135311556	0.237488669	-4.780487266	1.74871E-06	0.000166435	si:ch211-125o16.4	ZDB-GENE-131120-100	si:ch211-125o16.4	
ENSDARG00000016545	82.18082003	-0.726676685	0.152020126	-4.780134726	1.75178E-06	0.000166435	zgc:154046	ZDB-GENE-061103-289	zgc:154046	
ENSDARG00000033170	29.11207634	-0.977312517	0.204626742	-4.776074266	1.7875E-06	0.000169071	sult2st1	ZDB-GENE-030219-114	sult2st1	
ENSDARG00000043442	9.672388671	-2.488758127	0.522016416	-4.767585944	1.86446E-06	0.000175072	zgc:153665	ZDB-GENE-061027-365	zgc:153665	
ENSDARG00000032617	148.7796698	0.771000348	0.161728195	4.767259942	1.86748E-06	0.000175072	fgfrl1a	ZDB-GENE-040128-2	fgfrl1a	
ENSDARG00000014554	311.5419292	0.854056828	0.179454042	4.759195284	1.94366E-06	0.000181411	ppp1r3cb	ZDB-GENE-040426-1733	ppp1r3cb	
ENSDARG00000069758	3.849424386	-4.050463946	0.851645648	-4.756043733	1.97424E-06	0.000183457	si:dkey-189g17.2	ZDB-GENE-030131-5562	si:dkey-189g17.2	
ENSDARG00000019706	9.293315543	-4.618328224	0.971647438	-4.753090515	2.00331E-06	0.000185345	zar1	ZDB-GENE-030818-1	zar1	
ENSDARG00000036833	38.0507555	-2.502992954	0.527661204	-4.743560707	2.09994E-06	0.000193441	upp2	ZDB-GENE-040426-830	upp2	
ENSDARG00000039007	3661.598659	-0.619548089	0.130661618	-4.741622659	2.12013E-06	0.000194456	eno3	ZDB-GENE-031006-5	eno3	
ENSDARG00000001234	36.03042143	-1.06266182	0.224300513	-4.737670046	2.16189E-06	0.000197431	map4k2	ZDB-GENE-030616-163	map4k2	
ENSDARG00000053835	58.03080863	0.916176583	0.193762419	4.728350245	2.26351E-06	0.000205475	plekhh1	ZDB-GENE-061219-1	plekhh1	
ENSDARG00000067741	231.8302681	-0.685370927	0.144965353	-4.727825736	2.26937E-06	0.000205475	itpkcb	ZDB-GENE-080225-27	itpkcb	
ENSDARG00000019360	610.6562594	-0.576822601	0.122083153	-4.724833755	2.30304E-06	0.000207636	sec23b	ZDB-GENE-030131-5479	sec23b	
ENSDARG00000077688	408.070716	-1.050319192	0.222515445	-4.720208042	2.35604E-06	0.000211514	cpo	ZDB-GENE-070619-6	cpo	
ENSDARG00000033845	66.27410513	-1.014888317	0.215287103	-4.714115733	2.42763E-06	0.000216707	igsf9ba	ZDB-GENE-060503-729	igsf9ba	
ENSDARG00000044976	54.78008989	-7.781012743	1.650797139	-4.713488145	2.43512E-06	0.000216707	krt93	ZDB-GENE-060421-4592	krt93	
ENSDARG00000045708	39.20718367	1.775680674	0.376786271	4.712700044	2.44456E-06	0.000216707	adm2a	ZDB-GENE-041210-100	adm2a	
ENSDARG00000042667	576.2979129	-1.310311304	0.278096484	-4.711714744	2.45641E-06	0.00021685	klf2a	ZDB-GENE-011109-1	klf2a	
ENSDARG00000042807	134.0536702	-0.822784306	0.174881242	-4.704817369	2.54093E-06	0.00022282	slc16a4	ZDB-GENE-070112-602	slc16a4	
ENSDARG00000026862	132.6967967	-0.483973581	0.102874921	-4.704485572	2.54507E-06	0.00022282	aktip	ZDB-GENE-030909-5	aktip	
ENSDARG00000004529	2.766389635	-4.377434143	0.930811495	-4.702814874	2.56599E-06	0.000223727	zgc:173742	ZDB-GENE-030131-6489	zgc:173742	

ENSDARG0000040277	14.51839707	-1.845821075	0.393100353	-4.695546726	2.65895E-06	0.000230881	fbxo32	ZDB-GENE-040426-1040	fbxo32	
ENSDARG0000067851	57.08642536	-0.955932462	0.204103396	-4.6835696	2.81922E-06	0.000242983	lcn15	ZDB-GENE-060825-349	lcn15	
ENSDARG0000006215	438.478109	0.770623716	0.164542877	4.683421909	2.82125E-06	0.000242983	akr1b1	ZDB-GENE-040625-7	akr1b1	
ENSDARG0000097414	40.24083625	-1.476038043	0.315525328	-4.67803347	2.89639E-06	0.000248135	si:ch211-106e7.2	ZDB-GENE-031116-72	si:ch211-106e7.2	
ENSDARG0000093237	7.954390689	-3.543936726	0.757699628	-4.677231707	2.90774E-06	0.000248135	si:ch211-89o9.4	ZDB-GENE-090313-134	si:ch211-89o9.4	
ENSDARG0000033140	19.26124149	-1.331017614	0.284610084	-4.676635468	2.9162E-06	0.000248135	desi1a	ZDB-GENE-040426-1657	desi1a	
ENSDARG0000007344	220.6744697	-1.117142093	0.239093167	-4.672413289	2.97681E-06	0.000252279	tcap	ZDB-GENE-070501-5	tcap	
ENSDARG0000046098	121.6148152	1.879921027	0.402910657	4.665850834	3.07343E-06	0.000259429	ebp	ZDB-GENE-040718-12	ebp	
ENSDARG0000037532	4.291787297	-3.802735494	0.817766754	-4.650146846	3.31699E-06	0.000278877	mcm3l	ZDB-GENE-040121-2	mcm3l	
ENSDARG0000092551	5.668152371	-3.034316073	0.654118292	-4.638787982	3.50458E-06	0.000293485	si:dkey-56e3.2	ZDB-GENE-090313-316	si:dkey-56e3.2	
ENSDARG0000078448	50.71240147	1.0467842	0.226055436	4.63065263	3.64515E-06	0.000303669	gpr137ba	ZDB-GENE-100721-1	gpr137ba	
ENSDARG0000020876	263.3240618	-1.412027832	0.304973309	-4.630004626	3.65658E-06	0.000303669	pdk2a	ZDB-GENE-120910-1	pdk2a	
ENSDARG0000021439	691.9110344	-0.48091816	0.103885918	-4.629291155	3.6692E-06	0.000303669	ncoa4	ZDB-GENE-040426-689	ncoa4	
ENSDARG00000105117	163.919884	-0.726590625	0.157506098	-4.613095207	3.96716E-06	0.000326626	sdad1	ZDB-GENE-021213-1	sdad1	
ENSDARG0000079104	53.51861546	0.598388657	0.129730299	4.612558993	3.97742E-06	0.000326626	mfhas1	ZDB-GENE-080917-20	mfhas1	
ENSDARG0000007241	130.3973389	-0.953548766	0.207333128	-4.599114349	4.24291E-06	0.000347083	mycb	ZDB-GENE-040426-780	mycb	
ENSDARG0000094992	2.189712385	-5.06967703	1.106704982	-4.58087486	4.63035E-06	0.00037732	otx1	ZDB-GENE-980526-400	otx1	
ENSDARG0000074663	79.1499591	-0.829356042	0.181614313	-4.566578632	4.95749E-06	0.000402431	SAMD8	ZDB-GENE-070410-30	zgc:162183	
ENSDARG0000056885	289.2717808	-0.741188605	0.162702616	-4.555480581	5.22659E-06	0.000422656	per1a	ZDB-GENE-011220-1	per1a	
ENSDARG0000055093	26.53489775	-1.425449912	0.31299964	-4.554158316	5.25957E-06	0.000423706	cdh27	ZDB-GENE-141215-13	cdh27	
ENSDARG0000002259	11.71944231	2.528289125	0.555287603	4.553116457	5.2857E-06	0.000424197	ca15c	ZDB-GENE-061013-737	ca15c	
ENSDARG0000079308	67.30386855	-1.250982432	0.274889187	-4.550860829	5.34269E-06	0.000427153	tor3a	ZDB-GENE-081104-165	tor3a	
ENSDARG0000023479	9.768034571	-5.037639264	1.110243375	-4.537418891	5.69469E-06	0.000453584	lrp13	ZDB-GENE-130729-1	lrp13	
ENSDARG0000013236	129.5605399	1.158368757	0.255744742	4.529394222	5.9153E-06	0.000469392	dhcr24	ZDB-GENE-041212-73	dhcr24	
ENSDARG0000069251	24.82923085	-5.926573322	1.30907538	-4.527297215	5.97429E-06	0.000472303	si:dkeyp-50f7.2	ZDB-GENE-030131-5968	si:dkeyp-50f7.2	
ENSDARG0000055342	77.25562655	-0.964277185	0.213065489	-4.525731446	6.0187E-06	0.000474045	slc16a13	ZDB-GENE-120907-2	slc16a13	
ENSDARG0000014039	4.000310908	-3.194235683	0.706372726	-4.52202579	6.12506E-06	0.000480636	si:dkeyp-93d12.1	ZDB-GENE-041014-303	si:dkeyp-93d12.1	
ENSDARG0000056387	4.087708094	-3.087451936	0.683900336	-4.51447641	6.34734E-06	0.00049624	rnf17	ZDB-GENE-030131-6451	rnf17	
ENSDARG0000040725	14.29354158	-1.566429349	0.348916593	-4.489409155	7.1421E-06	0.000556322	zgc:114130	ZDB-GENE-050913-48	zgc:114130	
ENSDARG00000111240	19.64636802	-1.938191722	0.432818737	-4.478067965	7.53216E-06	0.000584556	dhcr13a.2	ZDB-GENE-040912-69	dhcr13a.2	
ENSDARG0000043257	1250.704529	0.531812874	0.118961752	4.470452618	7.80542E-06	0.000602277	ckbb	ZDB-GENE-020103-2	ckbb	
ENSDARG0000061778	12.28927138	-1.869417435	0.418202383	-4.470126218	7.81735E-06	0.000602277	fmn2b	ZDB-GENE-080225-35	fmn2b	
ENSDARG0000045768	218.1186905	0.642086954	0.14374268	4.466919313	7.9354E-06	0.000609157	cry1a	ZDB-GENE-010426-2	cry1a	
ENSDARG0000007823	69.5699399	1.105309888	0.247520571	4.46552739	7.98718E-06	0.000610918	atf3	ZDB-GENE-040426-728	atf3	
ENSDARG00000102362	174.7170902	-0.514545535	0.115284386	-4.463271683	8.07176E-06	0.000615167	slc25a12	ZDB-GENE-031006-11	slc25a12	
ENSDARG0000079957	1.828023984	-4.731467117	1.060915447	-4.459796611	8.20375E-06	0.000622985	eloal	ZDB-GENE-131029-2	eloal	
ENSDARG0000055622	2.881173194	-3.625156917	0.814145532	-4.452713641	8.47918E-06	0.000641601	zgc:153345	ZDB-GENE-061103-487	zgc:153345	
ENSDARG00000115257	18.9305605	1.982133947	0.445505168	4.449182836	8.61976E-06	0.000649918	si:ch73-338o16.4	ZDB-GENE-131119-14	si:ch73-338o16.4	
ENSDARG0000092872	43.1242304	-0.921629215	0.207615722	-4.439110909	9.03313E-06	0.00067867	upk3b	ZDB-GENE-060526-348	upk3b	
ENSDARG0000062182	60.40142809	-0.862870459	0.194586036	-4.434390445	9.23332E-06	0.000691259	slc22a7b.3	ZDB-GENE-131120-103	slc22a7b.3	
ENSDARG00000115978	13.24877026	-3.39530648	0.767673441	-4.422852608	9.74062E-06	0.000726671	AL935186.9			
ENSDARG0000098995	4.287204823	-4.039990443	0.913707018	-4.421538154	9.80008E-06	0.000728541	cyp2k6	ZDB-GENE-040426-1571	cyp2k6	
ENSDARG0000015657	14.01905667	-2.023613658	0.457950846	-4.418844674	9.92299E-06	0.000735099	zgc:77112	ZDB-GENE-040426-2219	zgc:77112	
ENSDARG0000060796	507.003809	-0.466512653	0.105603469	-4.417588321	9.98083E-06	0.000736808	slc20a2	ZDB-GENE-060929-828	slc20a2	
ENSDARG0000010003	177.9191593	-0.810151846	0.183595393	-4.412702486	1.02088E-05	0.000751022	glulb	ZDB-GENE-030131-8417	glulb	
ENSDARG0000091503	29.1866535	-0.854251442	0.19377113	-4.408558907	1.04061E-05	0.000762884	CABZ01073954.1			
ENSDARG0000042014	1.568967379	-4.033074209	0.915388113	-4.405862552	1.05364E-05	0.000769773	cyp11c1	ZDB-GENE-070828-1	cyp11c1	
ENSDARG0000055678	615.4673822	0.49255262	0.111924161	4.400771174	1.07867E-05	0.000785352	akap12b	ZDB-GENE-030131-9753	akap12b	
ENSDARG0000034677	101.6277108	-1.120147976	0.254837538	-4.395537577	1.10499E-05	0.000801761	sce1	ZDB-GENE-030616-15	sce1	

ENSDARG0000043323	71.9522898	-0.637576745	0.145150817	-4.392512258	1.12048E-05	0.000810228	lnx1	ZDB-GENE-030131-9439	lnx1	
ENSDARG0000014373	7.630342945	-3.308275376	0.753827254	-4.38863859	1.14062E-05	0.000821987	ddx4	ZDB-GENE-990415-272	ddx4	
ENSDARG0000041051	65.62418397	-1.063032539	0.242447781	-4.3845835	1.16208E-05	0.000834476	mid1ip1a	ZDB-GENE-990415-81	mid1ip1a	
ENSDARG0000032801	20.65003017	1.273333416	0.290457991	4.383881514	1.16583E-05	0.000834476	grk5	ZDB-GENE-091204-274	grk5	
ENSDARG0000043587	150.590179	-0.586547446	0.134174714	-4.371519988	1.23385E-05	0.000878899	srd5a2a	ZDB-GENE-050417-199	srd5a2a	
ENSDARG0000023082	78.51369721	-1.602738392	0.366697774	-4.370733902	1.2383E-05	0.000878899	krt1-19d	ZDB-GENE-060316-1	krt1-19d	
ENSDARG0000069744	2.35429704	-5.068868357	1.159888247	-4.370135113	1.2417E-05	0.000878899	mos	ZDB-GENE-040428-3	mos	
ENSDARG00000099060	24.91848828	-6.531614649	1.494770183	-4.369644728	1.24449E-05	0.000878899	zgc:111868	ZDB-GENE-050809-138	zgc:111868	
ENSDARG0000038222	13.72164901	-1.168880305	0.267954984	-4.36222639	1.28746E-05	0.000906223	tyw3	ZDB-GENE-040718-355	tyw3	
ENSDARG0000070709	30.584484	-5.816174637	1.333735186	-4.360816673	1.29578E-05	0.000909062	wu:fi42e03	ZDB-GENE-030131-6284	wu:fi42e03	
ENSDARG0000062460	64.43505207	-0.607790952	0.139581203	-4.354389708	1.33438E-05	0.000933054	sgk3	ZDB-GENE-070424-62	sgk3	
ENSDARG0000090468	48.83622291	-1.097203786	0.252055247	-4.35302895	1.34269E-05	0.000935778	ppp1r3aa	ZDB-GENE-110914-122	ppp1r3aa	
ENSDARG0000070214	328.4396724	-0.824717544	0.189507737	-4.351893785	1.34967E-05	0.000936752	slc41a1	ZDB-GENE-030131-4700	slc41a1	
ENSDARG0000043457	8660.890259	-0.559688849	0.12862378	-4.35136371	1.35293E-05	0.000936752	gapdh	ZDB-GENE-030115-1	gapdh	
ENSDARG0000043963	27.98078069	-1.559538634	0.359155488	-4.342238077	1.41039E-05	0.00097335	si:ch211-241j12.3	ZDB-GENE-040724-72	si:ch211-241j12.3	
ENSDARG0000012199	111.2853656	-0.852029878	0.196459742	-4.336918451	1.44494E-05	0.000993961	gpt2	ZDB-GENE-030729-8	gpt2	
ENSDARG0000059388	113.0050972	0.575710386	0.132846853	4.333639613	1.46664E-05	0.001005548	bdh1	ZDB-GENE-070410-130	bdh1	
ENSDARG0000015890	153.5467796	-0.866843564	0.200058755	-4.332944915	1.47128E-05	0.001005548	mafa	ZDB-GENE-010605-2	mafa	
ENSDARG0000038429	130.2648377	-0.70460148	0.162753313	-4.32926045	1.49611E-05	0.00101923	csrn1b	ZDB-GENE-030131-1515	csrn1b	
ENSDARG0000089724	21.815473	-1.466070334	0.338732332	-4.328108642	1.50395E-05	0.00102129	cylb	ZDB-GENE-100208-1	cylb	
ENSDARG0000005989	128.1434946	0.483578155	0.111938487	4.320034749	1.56005E-05	0.001055997	rgl1	ZDB-GENE-040426-1816	rgl1	
ENSDARG0000054835	23.71175891	-1.131685501	0.262006475	-4.319303556	1.56522E-05	0.001056127	ugt5f1	ZDB-GENE-100406-6	ugt5f1	
ENSDARG00000102335	45.75827611	-0.95050314	0.220339635	-4.313809173	1.60465E-05	0.001079296	ano1	ZDB-GENE-121127-3	ano1	
ENSDARG0000005565	125.3793092	-0.893427411	0.207475077	-4.306191495	1.66089E-05	0.001113587	entpd8	ZDB-GENE-040724-142	entpd8	
ENSDARG0000056986	40.59267571	0.905763373	0.21102816	4.29214458	1.76956E-05	0.0011827	dact2	ZDB-GENE-030131-9975	dact2	
ENSDARG00000109628	4.437594282	2.165545493	0.505119971	4.287190403	1.80947E-05	0.001203168	CR944667.2			
ENSDARG0000044774	5.807763861	-2.984983697	0.696297565	-4.28693686	1.81154E-05	0.001203168	pou5f3	ZDB-GENE-980526-485	pou5f3	
ENSDARG0000041602	42.29408662	-0.653414419	0.152639658	-4.280764418	1.86252E-05	0.001233166	zgc:92335	ZDB-GENE-040718-152	zgc:92335	
ENSDARG0000075564	132.6191954	-0.788897201	0.184354547	-4.279239189	1.87533E-05	0.001237778	fam13a	ZDB-GENE-050208-102	fam13a	
ENSDARG0000062370	114.8330058	-0.570566115	0.133856657	-4.262515788	2.02138E-05	0.001330032	bcl2l13	ZDB-GENE-050419-215	bcl2l13	
ENSDARG0000043492	7.673014846	1.721048381	0.404129748	4.258653047	2.05662E-05	0.001349031	irf1a	ZDB-GENE-060421-4031	irf1a	
ENSDARG0000029995	8993.102577	-0.657293638	0.154369469	-4.257925112	2.06333E-05	0.001349253	tnni2b.2	ZDB-GENE-040801-9	tnni2b.2	
ENSDARG0000027355	2505.201806	-0.543273221	0.128117856	-4.240417684	2.23104E-05	0.001454434	slc25a4	ZDB-GENE-030131-5275	slc25a4	
ENSDARG0000024831	19.08429918	0.994045095	0.234753293	4.234424503	2.29138E-05	0.001485636	crhbp	ZDB-GENE-040801-196	crhbp	
ENSDARG0000038561	7.006851844	-1.618328691	0.382271948	-4.233448721	2.30135E-05	0.001485636	klf6b	ZDB-GENE-070912-633	klf6b	
ENSDARG0000086529	3.637523651	-6.579743563	1.554387212	-4.233014472	2.3058E-05	0.001485636	si:dkey-90l23.2	ZDB-GENE-041008-200	si:dkey-90l23.2	
ENSDARG0000002347	3.01121969	-6.578380533	1.554106606	-4.232901724	2.30695E-05	0.001485636	cyp11a1	ZDB-GENE-010306-1	cyp11a1	
ENSDARG0000028027	190.5605171	0.870705204	0.206462769	4.217250441	2.47299E-05	0.001583928	trim63a	ZDB-GENE-040625-139	trim63a	
ENSDARG0000079946	210.1461034	1.744573526	0.41368939	4.217109673	2.47454E-05	0.001583928	sqlea	ZDB-GENE-071004-98	sqlea	
ENSDARG0000092999	6.772974892	-2.072323647	0.491808671	-4.213678551	2.51245E-05	0.00160335	tnni4b.1	ZDB-GENE-090312-198	tnni4b.1	
ENSDARG0000015252	68.78240735	-0.773537464	0.184137872	-4.200860238	2.65903E-05	0.001687837	st3gal3b	ZDB-GENE-050411-13	st3gal3b	
ENSDARG0000061143	51.58305062	-0.632521563	0.150574853	-4.200711805	2.66077E-05	0.001687837	tapt1b	ZDB-GENE-030131-4025	tapt1b	
ENSDARG0000007693	252.6128494	-0.713427733	0.169875212	-4.199716517	2.67249E-05	0.001690213	nfkbiab	ZDB-GENE-030131-1819	nfkbiab	
ENSDARG0000039117	467.0147218	0.429080695	0.102269752	4.195577749	2.72177E-05	0.001716254	tefa	ZDB-GENE-990415-264	tefa	
ENSDARG0000091574	130.1900112	-0.494550196	0.117940416	-4.193220717	2.75022E-05	0.001729045	suox	ZDB-GENE-070718-3	suox	
ENSDARG0000062601	5.403200956	-2.66839999	0.636707285	-4.190936794	2.77805E-05	0.001741377	piwil2	ZDB-GENE-060526-345	piwil2	
ENSDARG0000037012	111.9606082	-0.719883117	0.171849413	-4.189034484	2.80144E-05	0.001750858	slc3a2b	ZDB-GENE-040122-2	slc3a2b	
ENSDARG0000070178	1.427928611	-4.751095374	1.135468517	-4.18425989	2.86097E-05	0.001779889	zp3d.2	ZDB-GENE-030131-5363	zp3d.2	
ENSDARG0000002271	163.1787692	-0.668058742	0.159671234	-4.183964298	2.86469E-05	0.001779889	zfand5b	ZDB-GENE-040426-875	zfand5b	

ENSDARG0000009336	107.5583716	1.928634877	0.461629022	4.177889142	2.94227E-05	0.001822745	mvda	ZDB-GENE-041114-127	mvda	
ENSDARG00000057128	299.9498687	-0.474561517	0.11387593	-4.16735581	3.08153E-05	0.001903453	hadhaa	ZDB-GENE-031222-5	hadhaa	
ENSDARG00000044325	3.286386638	-2.909568637	0.699052741	-4.162158974	3.15253E-05	0.001941645	zgc:193690	ZDB-GENE-080721-12	zgc:193690	
ENSDARG00000063538	246.3183619	0.446692958	0.107373995	4.160159611	3.18025E-05	0.001947487	kalrnb	ZDB-GENE-060421-7244	kalrnb	
ENSDARG00000019417	59.63933557	-1.134316939	0.272662556	-4.160149297	3.1804E-05	0.001947487	gadd45ga	ZDB-GENE-040426-1882	gadd45ga	
ENSDARG00000032079	14.08755243	1.263334894	0.303941886	4.15650147	3.23158E-05	0.001973127	acsl3a	ZDB-GENE-050420-181	acsl3a	
ENSDARG00000105498	9.376054523	-1.350694326	0.32505262	-4.15530977	3.24847E-05	0.00197774	TSC22D3 (1 of many)	ZDB-GENE-160114-28	si:ch211-220e11.3	
ENSDARG00000056795	72.3316185	-0.765375499	0.184442453	-4.14967101	3.32953E-05	0.002021285	serpine1	ZDB-GENE-070912-60	serpine1	
ENSDARG00000013453	4.703768791	-2.567816401	0.618916064	-4.148892798	3.34087E-05	0.002022373	tdrd9			
ENSDARG00000078280	3.186396629	-3.417895082	0.824261919	-4.14661287	3.3743E-05	0.002036788	nkx3-1	ZDB-GENE-081104-238	nkx3-1	
ENSDARG00000099395	24.30134421	-0.852650512	0.205901582	-4.141058579	3.45707E-05	0.00208082	cables1	ZDB-GENE-070912-509	cables1	
ENSDARG00000007869	65.70277949	-0.599950682	0.144931117	-4.139557416	3.47977E-05	0.002088549	ehd3	ZDB-GENE-041014-352	ehd3	
ENSDARG00000026376	741.2771352	0.970434938	0.234487425	4.138537232	3.49527E-05	0.00209193	aco1	ZDB-GENE-031118-76	aco1	
ENSDARG00000044362	10.11453431	-1.223300814	0.295845827	-4.134926712	3.55068E-05	0.002119105	unc119b	ZDB-GENE-050201-2	unc119b	
ENSDARG00000078419	74.29537924	0.788253801	0.190846446	4.130303795	3.62284E-05	0.0021561	filip1a	ZDB-GENE-030131-4110	filip1a	
ENSDARG00000042063	3.018582718	-5.080048426	1.232524252	-4.121662043	3.76149E-05	0.002228765	si:ch211-145c1.1	ZDB-GENE-070912-81	si:ch211-145c1.1	
ENSDARG00000094760	30.81847426	0.858254232	0.208244017	4.121387235	3.76598E-05	0.002228765	si:dkey-125i10.3	ZDB-GENE-060526-198	si:dkey-125i10.3	
ENSDARG00000007836	644.5799523	-0.497961378	0.120862983	-4.120048727	3.78792E-05	0.002235508	ctsla	ZDB-GENE-030131-106	ctsla	
ENSDARG00000028295	23.11905057	-1.418439253	0.344527112	-4.117061334	3.83734E-05	0.002258381	mkrn4	ZDB-GENE-030131-5954	mkrn4	
ENSDARG00000086261	21.21834624	-0.922531321	0.224199256	-4.114783155	3.87544E-05	0.002274484	fhdc4	ZDB-GENE-131127-25	fhdc4	
ENSDARG00000040452	115.9450559	-0.737483024	0.179421662	-4.110334372	3.95087E-05	0.002312348	fam214a	ZDB-GENE-050419-204	fam214a	
ENSDARG00000079782	95.72279038	-5.447941388	1.326240945	-4.107806662	3.99434E-05	0.002331354	myh7l	ZDB-GENE-061027-393	myh7l	
ENSDARG00000099959	1303.260766	-1.488957362	0.362805606	-4.104008694	4.06052E-05	0.002363469	smyhc1	ZDB-GENE-030131-271	smyhc1	
ENSDARG00000035028	17.26097256	-1.59834976	0.389527182	-4.103307375	4.07286E-05	0.002364153	lpcat4	ZDB-GENE-030131-5777	lpcat4	
ENSDARG00000101778	187.6060301	-0.644914346	0.157260704	-4.100924967	4.11502E-05	0.002382102	ca5a	ZDB-GENE-080220-57	ca5a	
ENSDARG00000006422	50.23818782	-0.738385002	0.180190357	-4.097805314	4.17086E-05	0.002407847	esy3	ZDB-GENE-050809-35	esy3	
ENSDARG00000099555	189.2022852	-0.84413307	0.206035727	-4.097022797	4.18498E-05	0.002409432	foxo1a	ZDB-GENE-061013-59	foxo1a	
ENSDARG00000099554	93.01385298	-0.48080934	0.117400159	-4.095474362	4.21305E-05	0.002419021	sec16b	ZDB-GENE-050208-274	sec16b	
ENSDARG00000077473	172.0126919	-0.853145258	0.208534663	-4.091143633	4.29251E-05	0.002449957	mych	ZDB-GENE-030219-51	mych	
ENSDARG00000104172	587.6261748	-1.820234066	0.444970252	-4.090687088	4.30097E-05	0.002449957	diabloa	ZDB-GENE-040426-1303	diabloa	
ENSDARG00000052734	3512.696898	0.893721878	0.218493578	4.09038053	4.30666E-05	0.002449957	hmgcra	ZDB-GENE-040401-2	hmgcra	
ENSDARG00000039208	103.3672746	-1.287246254	0.314727862	-4.090029541	4.31318E-05	0.002449957	nasp	ZDB-GENE-030131-5511	nasp	
ENSDARG00000017665	121.8976364	-0.826397122	0.202127158	-4.088501171	4.34169E-05	0.002459558	snrkb	ZDB-GENE-040426-1724	snrkb	
ENSDARG00000091119	14.81946284	-1.20633777	0.295239466	-4.085963793	4.38942E-05	0.002477624	fbxo40.2	ZDB-GENE-120215-105	fbxo40.2	
ENSDARG00000074635	514.4011324	-0.80491829	0.19701518	-4.085564832	4.39697E-05	0.002477624	abca1a	ZDB-GENE-031006-12	abca1a	
ENSDARG00000086272	10.44936076	-1.390432627	0.340570684	-4.082655066	4.45241E-05	0.002502206	si:dkey-4p15.5	ZDB-GENE-121214-193	si:dkey-4p15.5	
ENSDARG00000097979	11.25591245	1.211125904	0.297072181	4.07687418	4.56452E-05	0.002558424	ugt1b3	ZDB-GENE-080227-12	ugt1b3	
ENSDARG00000060435	17.50891289	-1.019769032	0.250252155	-4.074966035	4.60211E-05	0.002572687	bnip1	ZDB-GENE-060503-81	bnip1	
ENSDARG00000069100	2794.524127	0.457095771	0.112439527	4.065258756	4.79792E-05	0.002675093	aldh9a1a.1	ZDB-GENE-030131-1257	aldh9a1a.1	
ENSDARG00000043816	2.855629885	-3.799591321	0.935082364	-4.063376091	4.8368E-05	0.002688796	st6galnac1.2	ZDB-GENE-041014-161	st6galnac1.2	
ENSDARG00000037403	11.3164799	-1.293621804	0.318403157	-4.062842264	4.84788E-05	0.002688796	si:dkey-4p15.3	ZDB-GENE-121214-31	si:dkey-4p15.3	
ENSDARG00000103811	355.2572026	-0.371666496	0.091574228	-4.058636424	4.93601E-05	0.002730528	agla	ZDB-GENE-071004-6	agla	
ENSDARG00000012789	30.43651427	-0.869663152	0.214361653	-4.056990327	4.97091E-05	0.002742676	plek2	ZDB-GENE-080219-2	plek2	
ENSDARG00000092966	0.941695911	-3.86194052	0.952161682	-4.055971366	4.99264E-05	0.002747507	cyp11a2	ZDB-GENE-130911-1	cyp11a2	
ENSDARG00000060668	32.31206977	0.694138256	0.171167827	4.055307989	5.00683E-05	0.002748178	tm4sf18	ZDB-GENE-050208-690	tm4sf18	
ENSDARG00000060215	60.86469117	-0.635886298	0.157159698	-4.04611556	5.20745E-05	0.002850913	cep85	ZDB-GENE-030131-1998	cep85	
ENSDARG00000097082	25.23437228	-0.988093288	0.24453788	-4.040655322	5.3302E-05	0.002910594	im:7152348	ZDB-GENE-041111-308	im:7152348	
ENSDARG00000102159	1.016868565	3.86592415	0.957041418	4.039453336	5.35759E-05	0.002918029	ly6m6	ZDB-GENE-131127-630	ly6m6	
ENSDARG00000035741	423.1230525	-0.387932213	0.09609773	-4.036850933	5.41735E-05	0.002943008	slc25a11	ZDB-GENE-040625-79	slc25a11	

ENSDARG00000038812	2.819066884	-2.92116863	0.724138278	-4.033992843	5.4837E-05	0.002971436	e2f5	ZDB-GENE-030828-3	e2f5	
ENSDARG0000004823	2.032907526	-3.955458139	0.980962418	-4.032221895	5.5252E-05	0.002986285	asz1	ZDB-GENE-040426-988	asz1	
ENSDARG00000058218	190.7421744	0.752665395	0.186852791	4.028119635	5.62247E-05	0.003031128	fam151a	ZDB-GENE-070705-105	fam151a	
ENSDARG00000010332	5.223919382	-7.052530846	1.751814921	-4.025842435	5.67717E-05	0.003049623	zgc:56231	ZDB-GENE-040426-1914	zgc:56231	
ENSDARG00000012539	164.8066131	0.880713652	0.218783958	4.025494649	5.68557E-05	0.003049623	dnase1	ZDB-GENE-040718-423	dnase1	
ENSDARG00000077726	86.0476517	-1.176768285	0.292452095	-4.023798438	5.72669E-05	0.003063926	nocta	ZDB-GENE-050208-306	nocta	
ENSDARG00000104470	89.02997551	-0.720865813	0.17942059	-4.017742959	5.87582E-05	0.003135796	syngnr2b	ZDB-GENE-070424-19	syngnr2b	
ENSDARG00000063627	86.73842249	-0.633509494	0.157855081	-4.013234729	5.98923E-05	0.003188287	bop1	ZDB-GENE-030219-109	bop1	
ENSDARG00000053966	1.355236307	-3.822234822	0.953264737	-4.009625737	6.08151E-05	0.003229295	cyp17a2	ZDB-GENE-100822-1	cyp17a2	
ENSDARG00000077741	5.313428538	-23.93450699	5.970646501	-4.008696041	6.10549E-05	0.003233928	zgc:175135	ZDB-GENE-080214-1	zgc:175135	
ENSDARG00000017982	92.65465618	1.138242995	0.284010413	4.007750928	6.12997E-05	0.003238796	cyp39a1	ZDB-GENE-041014-339	cyp39a1	
ENSDARG00000074656	38.1249723	-1.621797176	0.405267803	-4.001791316	6.28647E-05	0.003313222	ctss2.1	ZDB-GENE-050522-559	ctss2.1	
ENSDARG00000019763	48.95424928	-1.770272025	0.442658217	-3.99918483	6.3561E-05	0.003341607	acp5a	ZDB-GENE-040426-2864	acp5a	
ENSDARG00000032708	23.94890379	-0.889403549	0.222519854	-3.996962662	6.41604E-05	0.003364769	arl4cb	ZDB-GENE-040426-2382	arl4cb	
ENSDARG00000076313	399.6145748	0.934530109	0.233935053	3.994827185	6.47415E-05	0.003386858	si:ch211-240 19.7	ZDB-GENE-041210-329	si:ch211-240 19.7	
ENSDARG00000011618	101.6020293	-0.911422617	0.228323014	-3.991812297	6.55703E-05	0.003419373	slc26a2	ZDB-GENE-030717-3	slc26a2	
ENSDARG00000040890	333.4751576	1.460581797	0.365932665	3.991394961	6.56858E-05	0.003419373	fdps	ZDB-GENE-050506-78	fdps	
ENSDARG00000009505	362.0432403	-0.721401324	0.180774319	-3.990618407	6.59012E-05	0.00342218	prelid3b	ZDB-GENE-031002-13	prelid3b	
ENSDARG00000098746	132.7075347	0.973111181	0.243954754	3.988900259	6.63803E-05	0.003438631	dhrs13l1	ZDB-GENE-040426-1907	dhrs13l1	
ENSDARG00000103991	142.7446227	-0.550404063	0.138046536	-3.987090725	6.68885E-05	0.003456502	sec14l1	ZDB-GENE-040426-801	sec14l1	
ENSDARG00000078770	70.89850562	0.80050241	0.201282769	3.977004171	6.97889E-05	0.003587803	si:ch73-21k16.5	ZDB-GENE-030131-8374	si:ch73-21k16.5	
ENSDARG00000088972	83.15259419	0.716304082	0.180137652	3.97642621	6.99587E-05	0.003587803	si:dkey-238d18.4	ZDB-GENE-131121-307	si:dkey-238d18.4	
ENSDARG00000061221	2.250625296	-3.674673937	0.92414734	-3.976285791	7E-05	0.003587803	si:ch211-157j23.2	ZDB-GENE-030131-5686	si:ch211-157j23.2	
ENSDARG00000012972	366.6342714	-0.525328502	0.132127242	-3.975923404	7.01067E-05	0.003587803	cf1l1	ZDB-GENE-040426-2770	cf1l1	
ENSDARG00000042129	10.64015137	-5.788613663	1.456767702	-3.973601046	7.07941E-05	0.003612024	zp3a.1	ZDB-GENE-040727-1	zp3a.1	
ENSDARG00000099510	271.4437161	0.395416305	0.099521495	3.973174905	7.09209E-05	0.003612024	cnn3a	ZDB-GENE-030131-5130	cnn3a	
ENSDARG00000025375	1213.393134	0.67371645	0.169765045	3.968522798	7.23195E-05	0.003661667	idh1	ZDB-GENE-031006-1	idh1	
ENSDARG00000109946	5.689131776	1.67151229	0.421212081	3.968338914	7.23754E-05	0.003661667	BX005027.2			
ENSDARG00000043168	774.8796432	0.96679175	0.243634147	3.968211191	7.24141E-05	0.003661667	CELA1 (1 of many)	ZDB-GENE-040801-186	zgc:92511	
ENSDARG00000077326	207.7107366	0.566399593	0.14277877	3.96697348	7.27911E-05	0.00367074	slc45a4	ZDB-GENE-091230-5	slc45a4	
ENSDARG00000012390	10.04868456	-1.244786245	0.313825959	-3.966485912	7.29401E-05	0.00367074	kcnk5b	ZDB-GENE-040426-1297	kcnk5b	
ENSDARG00000035957	19.98072838	-1.631180754	0.411920503	-3.959940678	7.49684E-05	0.003763875	gmnn	ZDB-GENE-030429-30	gmnn	
ENSDARG00000012388	317.3267137	0.795402442	0.20092734	3.958657101	7.53724E-05	0.003775211	cox4i1l	ZDB-GENE-130814-2	cox4i1l	
ENSDARG00000060113	103.9515395	0.686974757	0.173594891	3.957344321	7.57876E-05	0.003787059	znf395a	ZDB-GENE-061215-52	znf395a	
ENSDARG00000012718	2.594447728	-3.32564311	0.840547941	-3.95651806	7.60501E-05	0.003791234	wee2	ZDB-GENE-030131-5682	wee2	
ENSDARG00000063229	158.5396273	0.535419852	0.135422776	3.953691304	7.69547E-05	0.003827321	xpo1b	ZDB-GENE-070530-6	xpo1b	
ENSDARG00000039730	15806.89379	0.90390444	0.2286853	3.952612783	7.73025E-05	0.003835615	zgc:112160	ZDB-GENE-050417-229	zgc:112160	
ENSDARG00000046124	36.36008832	-0.752850742	0.19066957	-3.948457755	7.86563E-05	0.00389367	rab11fip1a	ZDB-GENE-051113-116	rab11fip1a	
ENSDARG00000040266	4.658260534	-2.585339212	0.655101693	-3.946470053	7.93118E-05	0.003916969	sox19b	ZDB-GENE-010111-1	sox19b	
ENSDARG00000101014	12.36585207	-1.335124434	0.338366201	-3.94579728	7.95349E-05	0.00391885	slco1f4	ZDB-GENE-070112-2172	slco1f4	
ENSDARG00000006112	108.4870623	-0.525659328	0.133417469	-3.939958778	8.14956E-05	0.004006143	myof	ZDB-GENE-040426-1138	myof	
ENSDARG00000090900	109.6971046	-1.338194695	0.33993145	-3.936660446	8.26234E-05	0.00405218	apnl	ZDB-GENE-030131-8907	apnl	
ENSDARG00000013775	66.52026203	-0.770964672	0.195924861	-3.935001762	8.31961E-05	0.004070844	si:dkey-246g23.4	ZDB-GENE-050419-234	si:dkey-246g23.4	
ENSDARG00000000212	1252.390495	-0.660397217	0.168027709	-3.930287583	8.48443E-05	0.004141928	krt97	ZDB-GENE-040718-78	krt97	
ENSDARG00000021339	29760.06605	0.771493576	0.19667546	3.922673293	8.75719E-05	0.004265253	cpa5	ZDB-GENE-020514-1	cpa5	
ENSDARG00000069463	85.22846777	0.583420418	0.149020044	3.915046617	9.03867E-05	0.004392257	alox12	ZDB-GENE-030131-1452	alox12	
ENSDARG00000096229	3.302355466	-2.944084784	0.75245857	-3.912620445	9.13E-05	0.004426482	si:dkey-260c8.8	ZDB-GENE-030131-5375	si:dkey-260c8.8	
ENSDARG00000019815	668.8773369	0.435429421	0.111312275	3.911782598	9.16174E-05	0.004431189	fn1a	ZDB-GENE-000426-1	fn1a	
ENSDARG00000078430	81.92267717	-0.640810552	0.163852039	-3.910909833	9.19491E-05	0.004431189	tiam1a	ZDB-GENE-080325-1	tiam1a	

ENSDARG00000106212	45.93512782	-1.257334359	0.32156591	-3.910036231	9.22823E-05	0.004431189	LO017965.1			
ENSDARG0000044094	355.4338067	0.605273487	0.154813574	3.909692613	9.24136E-05	0.004431189	gfpt2	ZDB-GENE-071113-1	gfpt2	
ENSDARG00000102020	111.5294555	-0.697867793	0.178500323	-3.909616417	9.24428E-05	0.004431189	pnpla3	ZDB-GENE-040718-27	pnpla3	
ENSDARG00000105644	352.9377829	0.746639277	0.191172444	3.905580018	9.39996E-05	0.004495644	zgc:172079	ZDB-GENE-080204-103	zgc:172079	
ENSDARG00000007362	92.3331991	0.468881375	0.120086757	3.904521936	9.44118E-05	0.004505188	sft2d1	ZDB-GENE-040426-1350	sft2d1	
ENSDARG00000041723	29.63809375	-1.294770179	0.331791302	-3.902363238	9.52581E-05	0.004535354	zgc:55461	ZDB-GENE-040426-2879	zgc:55461	
ENSDARG00000043970	335.7961559	-0.455919334	0.116929778	-3.899086626	9.65562E-05	0.004586854	lrpprc	ZDB-GENE-030131-7887	lrpprc	
ENSDARG00000002988	66.98560687	-1.041131209	0.267170433	-3.896880346	9.74397E-05	0.00461078	tnnt2d	ZDB-GENE-050626-97	tnnt2d	
ENSDARG00000043003	301.5245937	0.5397595	0.138526587	3.896432533	9.762E-05	0.00461078	pcyt2	ZDB-GENE-041010-132	pcyt2	
ENSDARG00000052705	30.60759956	-2.012264321	0.516468126	-3.896202337	9.77128E-05	0.00461078	pkp1b	ZDB-GENE-030131-417	pkp1b	
ENSDARG00000045789	8.327489645	-1.842123938	0.473723501	-3.888605767	0.000100822	0.004746911	srgap1b	ZDB-GENE-041210-103	srgap1b	
ENSDARG00000068951	4.905756175	3.083685361	0.793288927	3.887215941	0.000101401	0.004763577	si:ch211-219a15.4	ZDB-GENE-060503-308	si:ch211-219a15.4	
ENSDARG00000087363	3.157158658	-5.106963295	1.31775525	-3.875502143	0.000106405	0.004987619	si:dkeyp-46h3.6	ZDB-GENE-060503-90	si:dkeyp-46h3.6	
ENSDARG00000014565	1.722905832	-4.10445916	1.060203054	-3.871389677	0.000108217	0.005061337	eif4e1b	ZDB-GENE-980526-127	eif4e1b	
ENSDARG00000001953	149.3934292	0.72047387	0.186168795	3.8700034	0.000108834	0.005078992	pkfkb3	ZDB-GENE-040426-2724	pkfkb3	
ENSDARG00000030107	291.8482929	-0.616518116	0.159367363	-3.868534329	0.000109492	0.005098455	si:ch211-207i1.2	ZDB-GENE-041014-149	si:ch211-207i1.2	
ENSDARG00000100265	3.786231527	-2.713023657	0.702312989	-3.862983739	0.00011201	0.005193473	rhcgb	ZDB-GENE-040426-2595	rhcgb	
ENSDARG00000013522	2580.434149	-1.570109315	0.406452611	-3.862957875	0.000112022	0.005193473	pck1	ZDB-GENE-030909-11	pck1	
ENSDARG00000038583	150.7398641	-0.731503208	0.189440714	-3.861383297	0.000112747	0.00521565	abraa	ZDB-GENE-120730-1	abraa	
ENSDARG00000099111	336.2677583	-0.793235748	0.205643101	-3.857341895	0.000114627	0.005291062	zgc:175280	ZDB-GENE-080219-39	zgc:175280	
ENSDARG00000102366	13.1090728	-1.697962382	0.440842853	-3.851627329	0.000117335	0.005394197	micall2a	ZDB-GENE-030131-5409	micall2a	
ENSDARG00000088689	9.457821373	-4.187072887	1.087112407	-3.851554687	0.00011737	0.005394197	si:ch211-201o1.1	ZDB-GENE-120709-60	si:ch211-201o1.1	
ENSDARG00000056084	8.615341331	1.330829475	0.345709771	3.849557018	0.000118332	0.005426607	igsf21b	ZDB-GENE-070424-59	igsf21b	
ENSDARG00000101062	95.57808635	1.026684136	0.266777578	3.848464866	0.00011886	0.00543908	fdft1	ZDB-GENE-081104-242	fdft1	
ENSDARG00000012903	584.2446861	-1.383094828	0.359923592	-3.842745678	0.000121666	0.005555447	slc34a2a	ZDB-GENE-000524-1	slc34a2a	
ENSDARG00000076381	306.7560263	-0.518640885	0.135041422	-3.840605922	0.000122731	0.005585999	slc25a1b	ZDB-GENE-130114-1	slc25a1b	
ENSDARG00000114503	28.36675513	-0.918993383	0.239299744	-3.84034419	0.000122862	0.005585999	phtf2	ZDB-GENE-040711-4	phtf2	
ENSDARG00000077967	64.64694411	-0.475439016	0.123838199	-3.839195188	0.000123438	0.005600186	si:ch211-140m22.7	ZDB-GENE-070912-73	si:ch211-140m22.7	
ENSDARG00000090428	36745.48595	0.777024734	0.20248527	3.837438308	0.000124324	0.005628338	ctrb1	ZDB-GENE-030131-1171	ctrb1	
ENSDARG00000076093	4.300911949	-1.968123891	0.513198539	-3.835014601	0.000125557	0.00567201	fr76	ZDB-GENE-090508-15	fr76	
ENSDARG00000022615	167.3912952	-1.007760971	0.263017981	-3.8315288	0.000127349	0.005740751	si:ch211-241e1.3	ZDB-GENE-030131-230	si:ch211-241e1.3	
ENSDARG00000043722	2499.53724	0.942666245	0.246494303	3.824292217	0.000131148	0.005891913	cpa4	ZDB-GENE-040704-61	cpa4	
ENSDARG00000076592	112.6757034	-0.501764256	0.131211605	-3.824084441	0.000131259	0.005891913	man1b1b	ZDB-GENE-070705-482	man1b1b	
ENSDARG00000055493	230.8677816	0.379992207	0.099390618	3.823220076	0.00013172	0.005900114	hic1	ZDB-GENE-040713-2	hic1	
ENSDARG00000091418	184.6686722	0.354272582	0.092734918	3.820271715	0.000133305	0.005958497	snx17	ZDB-GENE-030131-9475	snx17	
ENSDARG00000074163	3.299192559	-2.796948302	0.732550187	-3.818097862	0.000134485	0.005998579	zgc:162879	ZDB-GENE-070424-92	zgc:162879	
ENSDARG00000098375	267.3144557	-0.461597187	0.121066022	-3.812772394	0.000137417	0.006106031	polr1a	ZDB-GENE-030131-5286	polr1a	
ENSDARG00000039211	1714.649052	-0.624040949	0.163675295	-3.812676488	0.00013747	0.006106031	zgc:77439	ZDB-GENE-031010-24	zgc:77439	
ENSDARG00000036967	78.78671247	-0.616736436	0.16188078	-3.809818791	0.000139069	0.006164118	smox	ZDB-GENE-031201-3	smox	
ENSDARG00000096603	5.599978172	-2.361357718	0.620410426	-3.806121915	0.000141163	0.006243876	bmb	ZDB-GENE-030131-5577	bmb	
ENSDARG00000104409	26.8677962	-0.737468474	0.193791286	-3.805477994	0.000141531	0.006247102	tnk2b	ZDB-GENE-110411-165	tnk2b	
ENSDARG00000069790	13.36774316	-1.412406421	0.371203993	-3.804933268	0.000141842	0.006247849	dynll2a	ZDB-GENE-030828-11	dynll2a	
ENSDARG00000004745	93.97652074	-0.585227582	0.153848697	-3.80391639	0.000142426	0.006260551	lmb1l	ZDB-GENE-030131-9906	lmb1l	
ENSDARG00000074301	344.4501771	0.630302938	0.165748591	3.802764987	0.00014309	0.006276707	cth	ZDB-GENE-030131-774	cth	
ENSDARG00000052433	0.872496317	-3.292342509	0.86606006	-3.801517542	0.000143813	0.006284649	inha	ZDB-GENE-060503-554	inha	
ENSDARG00000042866	48.88663001	-0.723692127	0.190373743	-3.801428257	0.000143864	0.006284649	cx35.4	ZDB-GENE-050417-174	cx35.4	
ENSDARG00000102720	168.3185994	1.024371855	0.269695772	3.79824959	0.000145722	0.00635268	zgc:123284	ZDB-GENE-051113-92	zgc:123284	
ENSDARG00000099801	2.66403747	-3.332806616	0.878552893	-3.793518458	0.000148528	0.006447319	topaz1	ZDB-GENE-130117-1	topaz1	
ENSDARG00000004094	392.263554	0.902749018	0.23799027	3.793218186	0.000148707	0.006447319	acsbg2	ZDB-GENE-030131-7099	acsbg2	

ENSDARG00000103428	398.4902431	-0.50532474	0.133228654	-3.792913333	0.00014889	0.006447319	ogdhb	ZDB-GENE-090311-8	ogdhb	
ENSDARG00000101892	30.955085	-0.764663191	0.201622569	-3.792547597	0.00014911	0.006447319	ino80e	ZDB-GENE-040426-1818	ino80e	
ENSDARG00000091558	3.905836102	-3.861475666	1.018511229	-3.791294151	0.000149864	0.006462648	si:ch211-251f6.7	ZDB-GENE-091113-57	si:ch211-251f6.7	
ENSDARG00000074624	343.0883167	0.262801736	0.069332645	3.790447316	0.000150376	0.006462648	si:ch211-198a12.6	ZDB-GENE-030131-1683	si:ch211-198a12.6	
ENSDARG00000087330	33.02536412	-0.660743913	0.174322772	-3.790347665	0.000150437	0.006462648	maza	ZDB-GENE-110603-4	maza	
ENSDARG00000007276	18668.078	0.825850296	0.217905962	3.789938973	0.000150684	0.006462648	ela3l	ZDB-GENE-060710-2	ela3l	
ENSDARG00000092281	67.47202939	0.603665679	0.159328401	3.788814005	0.000151368	0.00647128	flnb	ZDB-GENE-041026-1	flnb	
ENSDARG00000046012	157.4170944	-0.700781707	0.184970977	-3.78860359	0.000151496	0.00647128	slc47a1	ZDB-GENE-050327-20	slc47a1	
ENSDARG00000101156	1.153323032	-3.545584278	0.936544037	-3.785816937	0.000153204	0.00651848	slco1f2	ZDB-GENE-080305-3	slco1f2	
ENSDARG00000029689	6.879815536	1.761233026	0.465221208	3.785796945	0.000153217	0.00651848	tkta	ZDB-GENE-130530-578	tkta	
ENSDARG00000039381	4.57995	-1.980708613	0.523613135	-3.782771057	0.000155092	0.006574974	ch25hl1.1	ZDB-GENE-030131-8617	ch25hl1.1	
ENSDARG00000054288	69.45280502	-0.705810911	0.186591475	-3.782653583	0.000155165	0.006574974	zgc:63972	ZDB-GENE-040426-1320	zgc:63972	
ENSDARG00000094112	79.60357397	-0.544202357	0.144008333	-3.778964349	0.000157482	0.006648249	slc22a21	ZDB-GENE-091118-62	slc22a21	
ENSDARG00000019541	697.8367496	-0.461389653	0.122096257	-3.778900885	0.000157522	0.006648249	gpt2l	ZDB-GENE-050302-11	gpt2l	
ENSDARG00000023002	7.775266181	-1.576680878	0.417586287	-3.775700797	0.000159558	0.006720804	dtl	ZDB-GENE-020419-34	dtl	
ENSDARG00000030087	470.5393524	-0.608704459	0.161330084	-3.77303752	0.000161272	0.006779505	nfbkib	ZDB-GENE-070705-529	nfbkib	
ENSDARG00000042993	38351.6822	0.74816911	0.198465788	3.769763627	0.000163402	0.006853109	prss1	ZDB-GENE-010131-7	prss1	
ENSDARG00000012485	16.12274783	-1.499232725	0.397742493	-3.769355177	0.00016367	0.006853109	aurka	ZDB-GENE-040801-161	aurka	
ENSDARG000000102636	2.630149099	-2.544138798	0.676086841	-3.763035519	0.000167863	0.007014834	trmt9b	ZDB-GENE-030131-4851	trmt9b	
ENSDARG00000006546	224.2435263	0.753650967	0.200642975	3.756179194	0.000172527	0.007195538	ak4	ZDB-GENE-040426-2505	ak4	
ENSDARG00000079274	41462.52624	0.805011332	0.214366487	3.755304028	0.000173131	0.007206543	prss59.1	ZDB-GENE-030131-1173	prss59.1	
ENSDARG00000054510	66.80564781	-0.746546644	0.198879793	-3.753758154	0.000174203	0.007236937	adrb2b	ZDB-GENE-070410-32	adrb2b	
ENSDARG00000008133	18.0798021	-1.022558798	0.272500486	-3.752502654	0.000175078	0.007259055	foxl1	ZDB-GENE-040426-1181	foxl1	
ENSDARG00000044204	408.5630239	0.824632204	0.219798302	3.751767863	0.000175592	0.007266148	endou	ZDB-GENE-070112-2012	endou	
ENSDARG00000043154	277.2062963	-0.604787101	0.161370397	-3.747819385	0.000178379	0.007367072	ucp2	ZDB-GENE-990708-8	ucp2	
ENSDARG00000040081	2.146549227	-3.753619622	1.002181206	-3.745450023	0.000180071	0.007413641	zp3d.1	ZDB-GENE-030131-5827	zp3d.1	
ENSDARG00000060397	96.3304517	-0.456758455	0.121956362	-3.745261415	0.000180206	0.007413641	hhip	ZDB-GENE-030131-4827	hhip	
ENSDARG00000003281	49.75440558	-0.945620595	0.25252255	-3.744697627	0.000180611	0.007415908	pik3ip1	ZDB-GENE-031030-14	pik3ip1	
ENSDARG00000073786	141.7885006	0.577176308	0.154183494	3.743437722	0.00018152	0.007438793	cmb1	ZDB-GENE-071004-21	cmb1	
ENSDARG00000016177	71.85271595	-0.693514981	0.18553882	-3.737843012	0.000185606	0.007591563	eif4enif1	ZDB-GENE-050320-113	eif4enif1	
ENSDARG00000025671	37.36193141	0.809160857	0.216620736	3.735380428	0.000187432	0.007651472	grm6b	ZDB-GENE-021120-2	grm6b	
ENSDARG00000040002	81.32745143	-0.780314224	0.209023792	-3.733135915	0.00018911	0.007698093	pnpla7b	ZDB-GENE-050309-66	pnpla7b	
ENSDARG00000007099	37.41527642	-0.930562077	0.249303684	-3.732644717	0.00018948	0.007698093	cx43.4	ZDB-GENE-990415-38	cx43.4	
ENSDARG00000056719	801.3403064	-0.698316129	0.187104411	-3.732226968	0.000189794	0.007698093	slc6a19b	ZDB-GENE-030131-4755	slc6a19b	
ENSDARG00000043566	9.744328656	-1.12178182	0.30062763	-3.731466139	0.000190369	0.007698093	nepro	ZDB-GENE-030131-5651	nepro	
ENSDARG00000073742	28764.19471	0.731364934	0.196000862	3.731437332	0.00019039	0.007698093	prss59.2	ZDB-GENE-110408-10	prss59.2	
ENSDARG00000104949	117.3422778	-0.827587919	0.221838507	-3.730587316	0.000191034	0.007709401	slc27a1b	ZDB-GENE-061013-672	slc27a1b	
ENSDARG00000003421	91.48461009	-0.505466008	0.135627787	-3.726861735	0.000193879	0.007809333	igf2bp2a	ZDB-GENE-070912-44	igf2bp2a	
ENSDARG00000020328	419.381769	-0.540562238	0.145135652	-3.724531032	0.000195679	0.007866875	plekha6	ZDB-GENE-140106-14	plekha6	
ENSDARG00000036414	495.7396749	-0.553119967	0.148626559	-3.721541904	0.00019801	0.007931822	si:ch73-335l21.1	ZDB-GENE-130530-591	si:ch73-335l21.1	
ENSDARG00000079637	100.3848599	-0.858317093	0.230637402	-3.721500009	0.000198043	0.007931822	alpk2	ZDB-GENE-030131-1868	alpk2	
ENSDARG00000055292	98.17381908	-0.528800087	0.142116694	-3.720886486	0.000198525	0.007936117	atg9b	ZDB-GENE-091111-3	atg9b	
ENSDARG00000032206	161.7396735	0.689692176	0.185700727	3.713998244	0.00020401	0.008140046	cthl	ZDB-GENE-040905-3	cthl	
ENSDARG00000010658	287.5126293	0.864015105	0.232785945	3.711629167	0.00020593	0.008201182	insig1	ZDB-GENE-030131-6121	insig1	
ENSDARG00000069031	8.368760124	1.368629963	0.369060655	3.708414713	0.000208561	0.008288987	plac8l1	ZDB-GENE-091204-165	plac8l1	
ENSDARG00000012369	30.7987711	-0.990165436	0.267036136	-3.707982931	0.000208917	0.008288987	rdh10b	ZDB-GENE-030909-7	rdh10b	
ENSDARG00000102899	3.39343095	2.920502326	0.788688794	3.702984433	0.000213078	0.008438286	cremb	ZDB-GENE-050417-150	cremb	
ENSDARG00000076005	95.72657106	0.402331416	0.10872269	3.700528513	0.000215151	0.008489001	piezo2a.2	ZDB-GENE-131119-76	piezo2a.2	
ENSDARG00000040190	399.2388644	0.666417423	0.180093384	3.700399253	0.000215261	0.008489001	qdptra	ZDB-GENE-070705-197	qdptra	

ENSDARG00000063917	17046.20636	-0.381397117	0.1030856	-3.699809837	0.000215761	0.008489001	mt-nd4	ZDB-GENE-011205-10	mt-nd4	
ENSDARG00000010130	303.1599092	0.575271837	0.155496759	3.699574443	0.000215961	0.008489001	smpdl3b	ZDB-GENE-041008-132	smpdl3b	
ENSDARG00000003210	2.070453518	-3.17684462	0.859462958	-3.696313598	0.000218753	0.008582804	si:ch73-86n2.1	ZDB-GENE-091204-400	si:ch73-86n2.1	
ENSDARG00000056913	735.2497629	0.379891918	0.102995238	3.688441582	0.000225632	0.008826578	pcolcea	ZDB-GENE-041014-370	pcolcea	
ENSDARG00000002745	1090.714489	0.332296187	0.090104237	3.687908569	0.000226105	0.008826578	tdh	ZDB-GENE-040426-2379	tdh	
ENSDARG00000006220	1377.352279	0.579516862	0.157145019	3.68778384	0.000226216	0.008826578	ugt1a7	ZDB-GENE-071004-5	ugt1a2	
ENSDARG00000006220	1377.352279	0.579516862	0.157145019	3.68778384	0.000226216	0.008826578	ugt1a7	ZDB-GENE-071004-4	ugt1a1	
ENSDARG00000006220	1377.352279	0.579516862	0.157145019	3.68778384	0.000226216	0.008826578	ugt1a7	ZDB-GENE-080227-5	ugt1a6	
ENSDARG00000006220	1377.352279	0.579516862	0.157145019	3.68778384	0.000226216	0.008826578	ugt1a7	ZDB-GENE-080227-6	ugt1a7	
ENSDARG00000074457	89.59010485	1.017700676	0.276277519	3.683617395	0.000229947	0.008951317	si:dkey-96f10.1	ZDB-GENE-090312-154	si:dkey-96f10.1	
ENSDARG00000021372	607.5949444	-0.549620411	0.149220623	-3.683273809	0.000230258	0.008951317	tob1b	ZDB-GENE-040426-2151	tob1b	
ENSDARG00000077513	18.18875968	0.832267798	0.226094211	3.681066374	0.000232261	0.008997638	ppp1r3da	ZDB-GENE-080204-75	ppp1r3da	
ENSDARG000000030872	116.6550391	-1.156334809	0.314133942	-3.681024726	0.000232298	0.008997638	cetp	ZDB-GENE-041114-54	cetp	
ENSDARG00000089181	1.199671608	-4.219483902	1.14652738	-3.680229514	0.000233024	0.009009274	adad1	ZDB-GENE-030131-6285	adad1	
ENSDARG00000024904	11.46726433	-1.626990684	0.442302981	-3.678452898	0.000234653	0.009055726	stil	ZDB-GENE-020419-39	stil	
ENSDARG00000057652	482.4642488	-0.503126303	0.136882448	-3.675608614	0.000237283	0.009140575	dbpb	ZDB-GENE-100922-6	dbpb	
ENSDARG00000055395	30.12858386	0.899332354	0.244777547	3.674080267	0.000238708	0.009162148	foxq1b	ZDB-GENE-040426-2090	foxq1b	
ENSDARG00000076473	20.07099878	-0.889278777	0.242069721	-3.673647298	0.000239113	0.009162148	trim37	ZDB-GENE-030131-2957	trim37	
ENSDARG00000059824	39.90990609	-1.735340953	0.472379293	-3.673617742	0.00023914	0.009162148	soat2	ZDB-GENE-061013-742	soat2	
ENSDARG00000071541	1.210509607	-4.373829434	1.191043667	-3.672266229	0.000240409	0.009194127	si:dkey-42i9.8	ZDB-GENE-050208-412	si:dkey-42i9.8	
ENSDARG00000040874	408.5400312	0.298938178	0.081464242	3.669563107	0.000242965	0.009275148	add3a	ZDB-GENE-030131-2721	add3a	
ENSDARG00000009942	18.60678543	-1.273866829	0.347360151	-3.667279698	0.000245145	0.009341508	cdc6	ZDB-GENE-050506-131	cdc6	
ENSDARG00000006601	38.04636147	0.623016073	0.169913663	3.666662588	0.000245737	0.009347259	kaznb	ZDB-GENE-061215-31	kaznb	
ENSDARG00000027609	225.6530309	-0.509596329	0.139089187	-3.663809814	0.000248491	0.009409665	hpn	ZDB-GENE-141212-373	hpn	
ENSDARG00000051854	15.15447836	-1.564721908	0.427076753	-3.663795547	0.000248505	0.009409665	cdt1	ZDB-GENE-070111-1	cdt1	
ENSDARG00000003142	49.08778013	-0.770700791	0.210367933	-3.663584937	0.00024871	0.009409665	dachc	ZDB-GENE-020402-5	dachc	
ENSDARG00000016494	219.9645378	-0.647889403	0.176892705	-3.662612338	0.000249656	0.009428638	ddc	ZDB-GENE-040426-2656	ddc	
ENSDARG00000030915	5112.294186	0.74967842	0.204786582	3.660779011	0.00025145	0.00947947	cpa1	ZDB-GENE-050522-438	cpa1	
ENSDARG00000087873	49.56970246	0.766841348	0.209567643	3.659159106	0.000253044	0.009521538	eevs	ZDB-GENE-131121-365	eevs	
ENSDARG00000052244	402.8425494	0.265858488	0.072664066	3.658733972	0.000253464	0.009521538	zgc:158564	ZDB-GENE-070112-1662	zgc:158564	
ENSDARG00000008140	7.687563245	1.422626348	0.388918354	3.657904885	0.000254285	0.009535476	kcnab1a	ZDB-GENE-050327-79	kcnab1a	
ENSDARG00000033832	964.6956993	-0.972140051	0.265994846	-3.654732664	0.00025745	0.009637094	ampd1	ZDB-GENE-040426-1906	ampd1	
ENSDARG00000031768	75.12804862	0.593780152	0.162649914	3.650663795	0.000261563	0.0097738	rora	ZDB-GENE-060306-2	rora	
ENSDARG00000062646	304.5455934	0.409820859	0.112318984	3.648723006	0.000263547	0.009798799	tet3	ZDB-GENE-060526-109	tet3	
ENSDARG00000005840	343.5433007	-0.417332931	0.114384406	-3.648512475	0.000263763	0.009798799	got2b	ZDB-GENE-030131-7917	got2b	
ENSDARG00000028976	12.59791764	-1.171823648	0.32123569	-3.647862568	0.000264431	0.009798799	pus3	ZDB-GENE-030131-9433	pus3	
ENSDARG00000061120	2356.158144	-0.660484401	0.181073502	-3.64760384	0.000264697	0.009798799	slc43a2b	ZDB-GENE-041212-6	slc43a2b	
ENSDARG00000027734	240.2951308	0.29841761	0.081817723	3.647346799	0.000264962	0.009798799	srsf5b	ZDB-GENE-040718-354	srsf5b	
ENSDARG00000019236	137.1185374	0.574246323	0.157444098	3.647302944	0.000265007	0.009798799	gsr	ZDB-GENE-050522-116	gsr	
ENSDARG00000074410	21.98931576	-0.711473045	0.195388079	-3.641332929	0.00027123	0.010011415	brip1	ZDB-GENE-081107-11	brip1	
ENSDARG00000006508	48.35903072	-0.775136526	0.213007252	-3.639014725	0.000273683	0.010082236	pip5k1bb	ZDB-GENE-040912-141	pip5k1bb	
ENSDARG00000044601	1236.869207	-0.320884373	0.088188427	-3.638622236	0.000274101	0.010082236	rtn4a	ZDB-GENE-030710-1	rtn4a	
ENSDARG00000075491	24.75439536	-0.921042243	0.253195854	-3.637667167	0.000275119	0.010102146	si:ch211-26b3.4	ZDB-GENE-081104-60	si:ch211-26b3.4	
ENSDARG00000032197	30.44438066	-0.734034535	0.20182885	-3.636915808	0.000275922	0.010114419	kif12b	ZDB-GENE-071004-22	kif12b	
ENSDARG00000014577	87.40177329	-0.563895888	0.155193929	-3.633491936	0.000279611	0.010231645	rhpn2	ZDB-GENE-030131-9927	rhpn2	
ENSDARG00000002986	313.0135975	0.722545493	0.198882693	3.633023476	0.00028012	0.010232573	gda	ZDB-GENE-050522-434	gda	
ENSDARG00000034270	941.4814676	-0.366876262	0.101080853	-3.629532701	0.000283935	0.010354089	ogdha	ZDB-GENE-030131-2143	ogdha	
ENSDARG00000101251	1274.265908	-0.494256437	0.136251023	-3.62754294	0.000286131	0.010416257	ldha	ZDB-GENE-991026-5	ldha	
ENSDARG00000054363	85.46834733	-0.468641352	0.129255505	-3.625697435	0.000288183	0.010472942	si:zfos-464b6.2	ZDB-GENE-030131-5337	si:zfos-464b6.2	

ENSDARG00000079011	269.0853137	-0.753371103	0.207862439	-3.624373445	0.000289663	0.010508709	col17a1b	ZDB-GENE-030131-7145	col17a1b	
ENSDARG00000025012	4.586956747	-1.9614126	0.541272947	-3.623703368	0.000290415	0.010517975	tpi1a	ZDB-GENE-020416-3	tpi1a	
ENSDARG00000020136	14.93633033	-0.943823273	0.260528525	-3.622725274	0.000291515	0.010539823	ptges	ZDB-GENE-050407-2	ptges	
ENSDARG00000038476	19.43973892	-0.796105442	0.219836093	-3.621359127	0.000293059	0.010568293	si:dkeyp-68b7.7	ZDB-GENE-070912-672	si:dkeyp-68b7.7	
ENSDARG00000098024	967.5811268	-0.517411022	0.14288597	-3.621146438	0.0002933	0.010568293	si:dkey-262k9.2	ZDB-GENE-131121-282	si:dkey-262k9.2	
ENSDARG00000090386	30.17608366	-0.706219744	0.195157376	-3.618719192	0.000296065	0.010649783	cd3eap	ZDB-GENE-101202-2	cd3eap	
ENSDARG00000028517	54.84244944	-0.824306409	0.228138987	-3.613176416	0.000302469	0.010861704	hbp1	ZDB-GENE-050522-414	hbp1	
ENSDARG00000003706	4.485978009	-3.448849776	0.955284166	-3.610286758	0.000305859	0.010957031	ryr2b	ZDB-GENE-061226-3	ryr2b	
ENSDARG00000045442	28341.73881	0.743254272	0.205885709	3.610033332	0.000306158	0.010957031	cpb1	ZDB-GENE-030131-1132	cpb1	
ENSDARG00000068465	3.085370513	-4.813097544	1.333714251	-3.608792168	0.000307626	0.010991013	zgc:136254	ZDB-GENE-060421-3062	zgc:136254	
ENSDARG00000041797	1278.06918	-0.478651759	0.132877108	-3.602213848	0.000315519	0.011254029	cx28.9	ZDB-GENE-041114-200	cx28.9	
ENSDARG00000051711	13.36204825	1.139008591	0.316253642	3.60156672	0.000316305	0.011263124	CR339041.2			
ENSDARG00000079166	2827.654713	-0.892981017	0.248473924	-3.593862094	0.000325812	0.011582191	ace	ZDB-GENE-030131-1826	ace	
ENSDARG00000036214	1.847073678	-2.889342893	0.804582284	-3.591109264	0.000329274	0.011685626	dazl	ZDB-GENE-000405-6	dazl	
ENSDARG00000056339	2.094263541	-2.466499191	0.687248418	-3.588948516	0.000332014	0.011761068	stk31	ZDB-GENE-140106-59	stk31	
ENSDARG00000098949	17.89628852	-3.135373864	0.873713667	-3.58855994	0.00033251	0.011761068	mshna	ZDB-GENE-120727-9	mshna	
ENSDARG00000017388	194.9213588	0.60759199	0.169560624	3.583331892	0.000339239	0.011979099	gstt1b	ZDB-GENE-040426-1491	gstt1b	
ENSDARG00000071724	22.23020574	-0.949837839	0.265118141	-3.58269651	0.000340066	0.011988303	ankha	ZDB-GENE-050913-33	ankha	
ENSDARG00000069375	178.320078	-1.521961217	0.424873863	-3.582148376	0.00034078	0.011993536	zgc:162608	ZDB-GENE-070410-86	zgc:162608	
ENSDARG00000102554	8.461935489	-1.19258969	0.333152159	-3.579714728	0.00034397	0.012085708	zgc:112433	ZDB-GENE-050417-294	zgc:112433	
ENSDARG00000098739	6.27345322	-5.621379739	1.571266558	-3.577610502	0.00034675	0.012155091	h2af1a			
ENSDARG00000051923	43.84884501	-1.338279359	0.374097676	-3.57735277	0.000347092	0.012155091	ccnb1	ZDB-GENE-000406-10	ccnb1	
ENSDARG00000032808	2.815566552	-3.180811252	0.889503481	-3.575940194	0.000348971	0.012200755	tdrd7a	ZDB-GENE-040426-2103	tdrd7a	
ENSDARG00000006837	35.2380218	0.743428575	0.208028869	3.573679843	0.000351999	0.012284976	mycn	ZDB-GENE-020711-1	mycn	
ENSDARG00000069279	32.55635148	-0.868635858	0.243092151	-3.573278092	0.00035254	0.012284976	elovl7a	ZDB-GENE-030131-6149	elovl7a	
ENSDARG00000059123	92.45004506	-0.536504398	0.150337906	-3.56865685	0.000358816	0.012483144	plcd1a	ZDB-GENE-071004-78	plcd1a	
ENSDARG00000029356	11.46972172	-1.137391969	0.31888989	-3.566723204	0.000361473	0.012554962	mboat1	ZDB-GENE-041114-98	mboat1	
ENSDARG00000053476	232.915753	-0.89747764	0.252341631	-3.5565976	0.000375689	0.013027368	lipca	ZDB-GENE-040426-1361	lipca	
ENSDARG00000012833	42.49523451	-0.802398444	0.225686345	-3.555369935	0.000377448	0.013052114	foxn3	ZDB-GENE-060512-39	foxn3	
ENSDARG00000056559	158.2622662	0.647142588	0.182025024	3.555239678	0.000377635	0.013052114	ccz1	ZDB-GENE-040426-698	ccz1	
ENSDARG00000109626	24.11569778	-1.166286097	0.32821595	-3.553410786	0.00038027	0.013121798	si:ch211-226h7.3	ZDB-GENE-130531-9	si:ch211-226h7.3	
ENSDARG00000061682	36.81543255	-0.584475187	0.164518026	-3.552651354	0.00038137	0.013138336	bicc1a	ZDB-GENE-101223-3	bicc1a	
ENSDARG00000061013	191.1449445	0.319514561	0.090001464	3.550104032	0.000385079	0.01324459	ankfy1	ZDB-GENE-041222-1	ankfy1	
ENSDARG00000052215	31.78390741	0.721517468	0.203322205	3.548640777	0.000387225	0.013245159	btr02	ZDB-GENE-060825-228	btr02	
ENSDARG00000043475	51.79636867	-0.732642497	0.206462846	-3.548544021	0.000387367	0.013245159	TAGAP	ZDB-GENE-121214-340	si:ch211-122h15.4	
ENSDARG00000043475	51.79636867	-0.732642497	0.206462846	-3.548544021	0.000387367	0.013245159	TAGAP	ZDB-GENE-040724-50	tagapb	
ENSDARG00000018266	65.1790441	0.952762339	0.26850274	3.548426877	0.00038754	0.013245159	mthfd1a	ZDB-GENE-041001-127	mthfd1a	
ENSDARG00000089567	6.27235762	-6.662227065	1.877535993	-3.548388468	0.000387596	0.013245159	patl2	ZDB-GENE-121214-350	patl2	
ENSDARG00000054122	27.51158495	-0.732765396	0.20658053	-3.547117411	0.000389471	0.013287796	tmem30b	ZDB-GENE-040704-17	tmem30b	
ENSDARG00000095400	18.25202848	-0.936000225	0.26393545	-3.546322501	0.000390648	0.01330652	si:ch73-52f15.5	ZDB-GENE-091204-341	si:ch73-52f15.5	
ENSDARG00000018263	1475.432246	0.829692429	0.234029211	3.545251574	0.000392239	0.013339258	pdia2	ZDB-GENE-040426-705	pdia2	
ENSDARG00000017798	146.3739871	0.403539073	0.113853708	3.544364786	0.00039356	0.01336276	bcor	ZDB-GENE-040408-1	bcor	
ENSDARG00000030957	110.7658168	-0.339664579	0.095845699	-3.543868786	0.000394301	0.013366503	yipf4	ZDB-GENE-040426-2253	yipf4	
ENSDARG00000026787	15.49249049	-0.839455136	0.236999103	-3.542018207	0.000397078	0.013439126	aqp7	ZDB-GENE-030131-6461	aqp7	
ENSDARG00000071150	358.0385122	0.388141495	0.109619436	3.540809089	0.000398902	0.013479328	cica	ZDB-GENE-060503-700	cica	
ENSDARG00000042977	35.93772657	0.69431393	0.196164849	3.539441104	0.000400975	0.013527806	nfil3	ZDB-GENE-040822-28	nfil3	
ENSDARG00000016233	77.60339272	-0.459518955	0.129865606	-3.538419219	0.00040253	0.013558684	sdr16c5a	ZDB-GENE-040426-2049	sdr16c5a	
ENSDARG00000079891	52.92465751	0.569437255	0.161002322	3.53682634	0.000404966	0.01360166	dnajc6	ZDB-GENE-080104-2	dnajc6	
ENSDARG00000077852	85.39036683	0.405401146	0.114625488	3.53674521	0.00040509	0.01360166	samd11	ZDB-GENE-060428-2	samd11	

ENSDARG00000102055	507.9168227	-0.36441389	0.103093528	-3.534789202	0.000408101	0.013681055	hadhb	ZDB-GENE-030131-8550	hadhb	
ENSDARG00000105034	6.62278708	-1.590847184	0.450322798	-3.532681872	0.000411367	0.013742073	zdhhc18b	ZDB-GENE-030131-6315	zdhhc18b	
ENSDARG00000016538	2.197746638	-3.245303279	0.918685227	-3.532551939	0.000411569	0.013742073	zgc:55888	ZDB-GENE-040426-834	zgc:55888	
ENSDARG00000008541	14.6036298	-1.689623218	0.478326869	-3.532361086	0.000411867	0.013742073	chia.4	ZDB-GENE-030131-9279	chia.4	
ENSDARG00000014222	152.1849198	-0.288526465	0.081817031	-3.526484178	0.000421116	0.014028603	zgc:86598	ZDB-GENE-040625-181	zgc:86598	
ENSDARG00000068749	64.13939871	0.732217288	0.207839284	3.522997551	0.000426695	0.01419214	si:ch211-250k18.5	ZDB-GENE-070912-244	si:ch211-250k18.5	
ENSDARG00000069113	72.59340558	0.576505456	0.163714921	3.52139837	0.000429277	0.01425205	dbn1	ZDB-GENE-091204-284	dbn1	
ENSDARG00000086017	0.90694839	-3.91229271	1.111216602	-3.520729175	0.000430362	0.01425205	zgc:153681	ZDB-GENE-060825-299	zgc:153681	
ENSDARG00000087186	120.2696626	-0.555652713	0.157827407	-3.520635129	0.000430515	0.01425205	si:ch211-232b12.5	ZDB-GENE-031002-40	si:ch211-232b12.5	
ENSDARG00000004378	91.12454969	0.369040944	0.104837968	3.52010775	0.000431372	0.014258141	yrk	ZDB-GENE-030131-9517	yrk	
ENSDARG00000071589	19.39510947	-0.882037392	0.250758683	-3.517474976	0.000435673	0.014377902	si:dkey-253d23.2	ZDB-GENE-050208-410	si:dkey-253d23.2	
ENSDARG00000020258	194.3883028	0.413029745	0.117487476	3.515521471	0.000438891	0.01446157	ewsr1a	ZDB-GENE-030131-2317	ewsr1a	
ENSDARG00000024478	188.1462267	-0.404378004	0.115084884	-3.513736896	0.00044185	0.014536461	mpc2	ZDB-GENE-030131-330	mpc2	
ENSDARG00000103687	1248.97542	0.896506492	0.255212629	3.512782638	0.00044344	0.014566147	syncn.2	ZDB-GENE-141212-321	syncn.2	
ENSDARG00000016687	546.0483033	-0.400503811	0.114086312	-3.510533416	0.000447209	0.014667196	acadvl	ZDB-GENE-030131-899	acadvl	
ENSDARG00000086103	38.7570387	0.731319851	0.208451902	3.508338589	0.000450915	0.014743626	slc37a1	ZDB-GENE-041114-151	slc37a1	
ENSDARG00000023900	34.17251741	-0.791501967	0.225606529	-3.508329167	0.000450931	0.014743626	casd1	ZDB-GENE-060503-329	casd1	
ENSDARG00000089489	19.53608002	-0.800876632	0.228419144	-3.506171232	0.000454603	0.014840781	fam83e	ZDB-GENE-141215-21	fam83e	
ENSDARG00000003869	122.8734465	-0.376759054	0.107596408	-3.50159508	0.000462482	0.015074776	decr1	ZDB-GENE-040718-142	decr1	
ENSDARG00000087094	2.75298835	-2.579012611	0.736873061	-3.499941504	0.00046536	0.015145296	foxa	ZDB-GENE-990415-76	foxa	
ENSDARG00000061764	5063.047164	-0.509774048	0.145793163	-3.496556612	0.000471304	0.015315227	ahnak	ZDB-GENE-030131-8719	ahnak	
ENSDARG00000090768	16.57710413	-6.034048196	1.725982196	-3.496008365	0.000472274	0.015323227	zp3.2	ZDB-GENE-071004-54	zgc:173556	
ENSDARG00000090768	16.57710413	-6.034048196	1.725982196	-3.496008365	0.000472274	0.015323227	zp3.2	ZDB-GENE-050626-121	zp3.2	
ENSDARG00000078882	33.61167647	-0.576179787	0.164866819	-3.494819585	0.000474382	0.015368101	slc22a31	ZDB-GENE-130530-858	slc22a31	
ENSDARG00000001857	184.601249	-0.434796537	0.124584878	-3.489962363	0.000483089	0.015616835	aff4	ZDB-GENE-100910-5	aff4	
ENSDARG00000028699	126.5151182	0.369199419	0.105796414	3.489715829	0.000483534	0.015616835	crkl	ZDB-GENE-040426-2951	crkl	
ENSDARG00000056819	21.66013258	0.794395651	0.227797668	3.487286142	0.000487949	0.015735427	hoxa9b	ZDB-GENE-000823-2	hoxa9b	
ENSDARG00000053820	6.972760468	-1.393009168	0.399714504	-3.485010309	0.000492118	0.01582389	pcmt2a	ZDB-GENE-060312-14	pcmt2a	
ENSDARG00000039677	365.3452885	-0.511951565	0.146902574	-3.484973422	0.000492186	0.01582389	dsc2l	ZDB-GENE-031116-55	dsc2l	
ENSDARG00000036587	153.7834515	0.425545397	0.122280259	3.480082549	0.000501259	0.016091183	cb1	ZDB-GENE-030902-2	cb1	
ENSDARG00000089441	238.5031173	-0.597782462	0.171875355	-3.477999858	0.00050517	0.016192195	si:ch211-105c13.3	ZDB-GENE-030131-4483	si:ch211-105c13.3	
ENSDARG00000100095	132.2290987	-0.659742196	0.189832033	-3.475399732	0.000510093	0.016325276	anxa1b	ZDB-GENE-030131-6554	anxa1b	
ENSDARG00000020761	198.9465446	-0.658448001	0.189509906	-3.474478019	0.000511848	0.016349811	arrdc2	ZDB-GENE-030131-7146	arrdc2	
ENSDARG00000058390	7.129362747	-1.30595448	0.375916152	-3.474057906	0.00051265	0.016349811	acot9.2	ZDB-GENE-051113-136	acot9.2	
ENSDARG00000102756	5.518823894	2.329637749	0.670634061	3.473783816	0.000513174	0.016349811	nr0b2b	ZDB-GENE-080403-9	nr0b2b	
ENSDARG00000042824	753.8200954	0.371212978	0.106934844	3.47139403	0.000517764	0.016471259	nfe2l2a	ZDB-GENE-030723-2	nfe2l2a	
ENSDARG00000032849	413.995171	0.440150758	0.126987551	3.46609375	0.000528079	0.016774231	ndrg1a	ZDB-GENE-030826-34	ndrg1a	
ENSDARG00000059247	20.67436242	-0.733112267	0.211708707	-3.462834756	0.000534517	0.016951838	tmem54a	ZDB-GENE-040426-1304	tmem54a	
ENSDARG00000035415	10.20306981	-1.068753474	0.308680436	-3.462329809	0.00053552	0.016951838	ptger4b	ZDB-GENE-060531-102	ptger4b	
ENSDARG00000068965	76.90698779	0.508523052	0.146894792	3.461818115	0.00053654	0.016951838	nrip1a	ZDB-GENE-040723-8	nrip1a	
ENSDARG00000063075	95.94744283	0.458513622	0.132455147	3.461651986	0.000536871	0.016951838	soga1	ZDB-GENE-090313-188	soga1	
ENSDARG00000008363	185.2923196	-0.473369703	0.136766445	-3.461153828	0.000537865	0.016957967	mcl1b	ZDB-GENE-030825-1	mcl1b	
ENSDARG00000040764	306.6687074	0.451142921	0.130361194	3.460714862	0.000538743	0.016960402	id1	ZDB-GENE-990415-96	id1	
ENSDARG00000102892	14.64996812	-6.196812045	1.790951039	-3.460067813	0.000540039	0.016975985	h1m	ZDB-GENE-030131-5614	h1m	
ENSDARG00000075958	143.2589018	0.674037302	0.19488975	3.458556962	0.000543077	0.017046195	si:dkey-266f7.9	ZDB-GENE-070705-440	si:dkey-266f7.9	
ENSDARG00000038898	2.954814444	-2.348694318	0.67955441	-3.456227029	0.000547794	0.017168795	zgc:113691	ZDB-GENE-050220-7	zgc:113691	
ENSDARG00000062315	357.3982193	0.388280562	0.11245864	3.452652109	0.000555104	0.017372226	sik2b	ZDB-GENE-071012-1	sik2b	
ENSDARG00000015156	181.708158	0.477398608	0.138309739	3.451663005	0.000557143	0.017386386	fbln2	ZDB-GENE-060711-1	fbln2	
ENSDARG00000001879	200.0146341	-0.500871111	0.145111204	-3.451636376	0.000557198	0.017386386	nav2b	ZDB-GENE-061207-13	nav2b	

ENSDARG00000025174	2.63365499	-4.594913671	1.331400554	-3.451188043	0.000558125	0.017389684	zgc:103482	ZDB-GENE-041010-115	zgc:103482	
ENSDARG00000103370	103.665823	-0.440963891	0.127786874	-3.450776109	0.000558977	0.017390671	lrrc8da	ZDB-GENE-061009-26	lrrc8da	
ENSDARG00000033501	8.08042004	-1.190311229	0.34501078	-3.450069676	0.000560442	0.017410678	zgc:64189	ZDB-GENE-040426-1397	zgc:64189	
ENSDARG00000105626	1.144275373	-4.7134978	1.366474485	-3.449385885	0.000561863	0.017429275	adad2	ZDB-GENE-130530-788	adad2	
ENSDARG00000045139	1.113282894	-3.379219643	0.982232709	-3.440345256	0.000580973	0.01799571	ca7	ZDB-GENE-040426-1786	ca7	
ENSDARG00000037550	2.519723682	-2.766677232	0.80469373	-3.438174212	0.000585651	0.018114136	cyp21a2	ZDB-GENE-070103-6	cyp21a2	
ENSDARG00000020893	392.0596123	0.326657809	0.095094806	3.435075205	0.000592389	0.018295852	slc25a55a	ZDB-GENE-040426-2745	slc25a55a	
ENSDARG00000099411	23.29858028	0.80635229	0.234937438	3.432200065	0.000598706	0.018448512	zgc:158343	ZDB-GENE-061201-9	zgc:158343	
ENSDARG00000034470	1706.75835	-0.523091207	0.15241437	-3.432033396	0.000599074	0.018448512	aldoab	ZDB-GENE-040426-2299	aldoab	
ENSDARG00000045601	7.278157738	-1.800181275	0.525014298	-3.428823333	0.000606204	0.018640993	cax1	ZDB-GENE-030131-3044	cax1	
ENSDARG00000009242	14.38497049	-0.953497748	0.278343211	-3.425618843	0.000613401	0.018834952	fev	ZDB-GENE-070112-1852	fev	
ENSDARG00000077072	10.53004056	-1.063988811	0.3106808	-3.424700883	0.000615477	0.018871351	si:ch73-280o22.2	ZDB-GENE-141216-272	si:ch73-280o22.2	
ENSDARG00000061021	87.91521237	-0.519050472	0.151602956	-3.423749031	0.000617636	0.018910203	fam160a1a	ZDB-GENE-090312-132	fam160a1a	
ENSDARG00000043236	8.820878287	-7.858906581	2.296695247	-3.421832561	0.000622006	0.019001375	ccna1	ZDB-GENE-040311-2	ccna1	
ENSDARG00000012823	11.88734353	1.067314757	0.311929209	3.421656985	0.000622408	0.019001375	dlgap4b	ZDB-GENE-101215-2	dlgap4b	
ENSDARG00000092660	51.32585935	0.637827447	0.186574385	3.418622809	0.000629389	0.019186858	cyp27c1	ZDB-GENE-080204-68	cyp27c1	
ENSDARG00000017917	1.515517599	-4.058052083	1.187496865	-3.41731604	0.000632418	0.0192515	her7	ZDB-GENE-000427-6	her7	
ENSDARG00000010407	6.9211088	-1.460809038	0.427531482	-3.416845544	0.000633512	0.019257132	ppp4r4	ZDB-GENE-041001-164	ppp4r4	
ENSDARG00000009196	26.75936947	-1.155471824	0.338414634	-3.414367191	0.000639304	0.019405335	anxa3a	ZDB-GENE-040912-58	anxa3a	
ENSDARG00000028815	9.814809641	-1.272646481	0.374002249	-3.402777615	0.000667046	0.020218445	zgc:162945	ZDB-GENE-030131-3975	zgc:162945	
ENSDARG00000035879	93.57426974	0.545678623	0.160540414	3.399010934	0.00066763	0.020469673	fuca1.2	ZDB-GENE-040801-78	fuca1.2	
ENSDARG00000040300	50.90034996	-0.580607071	0.170946096	-3.396433642	0.000682701	0.020633934	gtbbp10	ZDB-GENE-040718-153	gtbbp10	
ENSDARG00000059360	113.7238766	0.418396315	0.123269497	3.394159359	0.000688396	0.020776425	srsf3b	ZDB-GENE-071005-2	srsf3b	
ENSDARG00000026655	158.3100456	0.438082413	0.129166369	3.391613596	0.000694824	0.020918202	tspo	ZDB-GENE-041010-125	tspo	
ENSDARG00000079473	83.32364093	0.487957725	0.143875946	3.391517049	0.000695068	0.020918202	map3k21	ZDB-GENE-090312-24	map3k21	
ENSDARG00000109774	182.1800915	-0.578408071	0.170711013	-3.388229375	0.000703454	0.021140542	CABZ01084963.1			
ENSDARG00000007739	12.86704182	-3.85412168	1.13887805	-3.384139049	0.000714018	0.021427629	atp1a1a.2	ZDB-GENE-001212-2	atp1a1a.2	
ENSDARG00000056150	56.20613947	-0.50001088	0.147815561	-3.3826674	0.000717855	0.021505732	rbms2b	ZDB-GENE-040801-51	rbms2b	
ENSDARG00000036080	1742.558807	0.296116552	0.08754724	3.382363062	0.000718651	0.021505732	cd81a	ZDB-GENE-000831-5	cd81a	
ENSDARG00000099117	4.211016238	-3.982310479	1.177662032	-3.381539331	0.000720809	0.021539892	si:dkey-33i11.4	ZDB-GENE-030131-33	si:dkey-33i11.4	
ENSDARG00000008275	138.597484	-0.673869432	0.199409558	-3.379323642	0.000726644	0.021683674	klhl24b	ZDB-GENE-040426-1185	klhl24b	
ENSDARG00000070892	577.1062886	-0.483844811	0.143215719	-3.3784337	0.000729	0.021723382	si:ch211-262h13.5	ZDB-GENE-050208-372	si:ch211-262h13.5	
ENSDARG00000099213	170.0535816	0.318836838	0.094428362	3.376494425	0.000734159	0.021846374	glyr1	ZDB-GENE-041121-5	glyr1	
ENSDARG00000039365	7.754679337	-1.212893829	0.359298674	-3.375725869	0.000736212	0.021876761	cuedc2	ZDB-GENE-030131-6283	cuedc2	
ENSDARG00000034207	12.7536379	-1.188382685	0.352275636	-3.37344557	0.000742337	0.022027869	cx44.2	ZDB-GENE-010619-1	cx44.2	
ENSDARG00000009594	404.0589549	0.446933929	0.132643931	3.36942615	0.000753249	0.022320393	nr1d2b	ZDB-GENE-990415-244	nr1d2b	
ENSDARG00000102125	20.75761275	-0.940726301	0.279449388	-3.366356636	0.000761682	0.022538755	iqsec2a	ZDB-GENE-170302-3	iqsec2a	
ENSDARG00000069640	12.59147376	0.787450959	0.233956892	3.365795095	0.000763234	0.022553187	vegfc	ZDB-GENE-040303-4	vegfc	
ENSDARG00000028784	13.42114618	-1.183121958	0.351629916	-3.364679465	0.000766326	0.022613029	si:dkey-24p1.6	ZDB-GENE-060503-67	si:dkey-24p1.6	
ENSDARG00000114552	6.486766574	-1.80371445	0.536168703	-3.364080076	0.000767993	0.022630679	siva1	ZDB-GENE-050506-57	siva1	
ENSDARG00000055876	923.3286756	1.033401519	0.307499227	3.360663801	0.000777554	0.022856238	msmo1	ZDB-GENE-040426-2670	msmo1	
ENSDARG00000113246	1.573710341	-4.098760973	1.219660688	-3.360574799	0.000777805	0.022856238	CABZ01051901.1			
ENSDARG00000099774	115.4482209	0.772809316	0.230016537	3.359798938	0.000779992	0.022888772	cyb5b	ZDB-GENE-040426-2614	cyb5b	
ENSDARG00000071662	43.3334218	0.521444496	0.155291617	3.357840601	0.000785539	0.02301966	si:rp71-36a1.3	ZDB-GENE-050208-566	si:rp71-36a1.3	
ENSDARG00000045522	47.70394502	-0.657926218	0.196020728	-3.356411455	0.00078961	0.023106999	acot15	ZDB-GENE-041210-203	acot15	
ENSDARG00000045834	624.8855788	0.751098375	0.223810795	3.355952397	0.000790922	0.023113463	si:dkey-14d8.7	ZDB-GENE-041210-143	si:dkey-14d8.7	
ENSDARG00000062929	107.4252572	-0.426563671	0.127130262	-3.355327548	0.000792711	0.02313383	FAM83G	ZDB-GENE-121214-254	si:dkeyp-9d4.4	
ENSDARG00000063921	15872.43767	-0.40586441	0.121034395	-3.353298127	0.000798546	0.023272081	mt-nd5	ZDB-GENE-011205-12	mt-nd5	
ENSDARG00000013623	3238.876094	-0.32533838	0.097045206	-3.352441543	0.000801022	0.023312148	vdac2	ZDB-GENE-030131-845	vdac2	

ENSDARG0000002509	10.12731894	1.443883481	0.430897712	3.350872935	0.000805573	0.023408105	zgc:153911	ZDB-GENE-061013-174	zgc:153911	
ENSDARG00000071065	255.6925996	0.671688552	0.200494441	3.35016047	0.000807648	0.023408105	g6pd	ZDB-GENE-070508-4	g6pd	
ENSDARG00000020289	4.914608185	-2.222767701	0.663531604	-3.349904793	0.000808393	0.023408105	pif1	ZDB-GENE-030131-4928	pif1	
ENSDARG00000110186	90.36869913	-0.572305578	0.170860471	-3.349549336	0.000809431	0.023408105	LO018535.1			
ENSDARG00000015449	169.6173559	0.339692332	0.101418602	3.349408536	0.000809843	0.023408105	fut8a	ZDB-GENE-031118-20	fut8a	
ENSDARG00000067607	276.6996705	0.90281467	0.269602932	3.348682684	0.000811967	0.023437536	sreb1	ZDB-GENE-090812-3	sreb1	
ENSDARG00000075754	42.66492946	0.598688297	0.178828744	3.347830348	0.000814469	0.023463224	mri1	ZDB-GENE-080204-109	mri1	
ENSDARG00000039832	41.00522451	1.138821338	0.340217371	3.34733448	0.000815927	0.023463224	gsta.2	ZDB-GENE-070822-30	gsta.2	
ENSDARG00000054916	255.852981	-0.812430025	0.242715764	-3.347248692	0.00081618	0.023463224	eif4ebp3	ZDB-GENE-041114-44	eif4ebp3	
ENSDARG00000043332	23.78016833	-0.669499856	0.200048522	-3.346687331	0.000817834	0.023478928	prkc	ZDB-GENE-070511-1	prkc	
ENSDARG00000043173	1996.667125	0.863064707	0.258110511	3.343779777	0.000826453	0.023694266	CELA1 (1 of many)	ZDB-GENE-040801-12	zgc:92745	
ENSDARG00000090617	39.93539097	-0.559594795	0.167380074	-3.343258148	0.000828008	0.023706774	ctif	ZDB-GENE-130530-1003	ctif	
ENSDARG00000079281	89.52749545	-0.563709805	0.168665446	-3.342177177	0.00083124	0.023767177	si:dkeypp-75h12.2	ZDB-GENE-030131-7512	si:dkeypp-75h12.2	
ENSDARG00000025855	27.64847373	-0.814668937	0.243902049	-3.340147978	0.000837338	0.023909261	camk2n1a	ZDB-GENE-050522-319	camk2n1a	
ENSDARG00000077180	50.70277329	-0.68707913	0.205849733	-3.33777033	0.000844535	0.024082326	slc37a4b	ZDB-GENE-040426-827	slc37a4b	
ENSDARG00000011170	1299.781712	-0.344402579	0.103271903	-3.334910757	0.000853268	0.024298635	ndrg2	ZDB-GENE-041212-15	ndrg2	
ENSDARG00000025718	30.97676297	-0.584832488	0.175398432	-3.334308525	0.000855118	0.024318624	cxc1b	ZDB-GENE-030728-4	cxc1b	
ENSDARG00000070964	239.3365322	0.950134042	0.285327549	3.329976533	0.000868533	0.024667037	si:rp71-15k1.1	ZDB-GENE-030131-1113	si:rp71-15k1.1	
ENSDARG00000042641	1220.751735	1.164806527	0.349923089	3.328750125	0.000872366	0.024742738	cyp51	ZDB-GENE-040625-2	cyp51	
ENSDARG00000005104	140.5162141	-0.381859327	0.11477753	-3.326951964	0.000878015	0.024849029	limk2	ZDB-GENE-040718-398	limk2	
ENSDARG00000071173	7.24884059	-3.814732403	1.146663423	-3.326810925	0.00087846	0.024849029	slc12a10.2	ZDB-GENE-060503-425	slc12a10.2	
ENSDARG00000069018	980.4652397	0.862170385	0.259198952	3.326288078	0.000880109	0.024862497	cyp7a1	ZDB-GENE-040426-1296	cyp7a1	
ENSDARG00000004199	20.0611249	-0.964426976	0.290034764	-3.325211645	0.000883514	0.024895744	spam1	ZDB-GENE-050506-63	spam1	
ENSDARG00000012234	210.1378009	-0.561629287	0.168922265	-3.325173218	0.000883636	0.024895744	endouc	ZDB-GENE-060503-141	endouc	
ENSDARG00000074120	83.14815919	-0.631767687	0.190173048	-3.322067426	0.000893531	0.02514109	usp2b	ZDB-GENE-100208-2	usp2b	
ENSDARG00000025641	84.3049597	0.421268957	0.126851912	3.320950788	0.000897114	0.025208415	gli2a	ZDB-GENE-990706-8	gli2a	
ENSDARG00000045074	48.46247181	-0.537587629	0.161921232	-3.320056429	0.000899993	0.025255817	arl4d	ZDB-GENE-030131-2293	arl4d	
ENSDARG00000061048	127.0601462	-0.297417503	0.089592659	-3.319663746	0.000901259	0.025257912	ranbp9	ZDB-GENE-021030-5	ranbp9	
ENSDARG00000078188	77.44358824	0.413688748	0.124715732	3.317053435	0.000909722	0.025461405	fam160a2	ZDB-GENE-070912-291	fam160a2	
ENSDARG00000086104	105.9597498	-0.512081365	0.154463151	-3.315233183	0.000915667	0.025593982	slco5a1a	ZDB-GENE-090316-1	slco5a1a	
ENSDARG00000023176	338.43088	-0.989143931	0.298434921	-3.314437619	0.000918277	0.025610827	tdo2b	ZDB-GENE-030131-6014	tdo2b	
ENSDARG00000035560	7.698028225	1.084822681	0.327314532	3.314312614	0.000918687	0.025610827	capga	ZDB-GENE-060531-6	capga	
ENSDARG00000005355	37.76374141	-0.917376503	0.277128715	-3.310290317	0.000931993	0.025947602	larp6a	ZDB-GENE-030131-6403	larp6a	
ENSDARG00000075557	58.93989112	0.540535417	0.163415587	3.307734756	0.000940538	0.026151166	apcdd1l	ZDB-GENE-121022-3	apcdd1l	
ENSDARG00000025386	5.158199785	-5.220008929	1.579998805	-3.303805619	0.000953819	0.026485678	lsm14b	ZDB-GENE-040426-779	lsm14b	
ENSDARG00000071009	21.36726493	-0.906911638	0.274615603	-3.302476727	0.00095835	0.026576662	kif20ba	ZDB-GENE-041111-213	kif20ba	
ENSDARG00000071005	100.020493	-0.866719584	0.262500068	-3.301788036	0.000960706	0.026607172	ppp1r3ca	ZDB-GENE-040718-70	ppp1r3ca	
ENSDARG00000057231	29.24604077	0.710203695	0.215130748	3.301265399	0.000962498	0.026621988	rorca	ZDB-GENE-990415-250	rorca	
ENSDARG00000027154	95.99452581	-0.453166578	0.137397924	-3.29820541	0.000973049	0.026876316	tpd52l2a	ZDB-GENE-030131-7047	tpd52l2a	
ENSDARG00000021664	18.83908785	-0.922214137	0.279645869	-3.297792815	0.00097448	0.026876316	fzd3a	ZDB-GENE-990415-225	fzd3a	
ENSDARG000000103917	212.0675175	-0.868894192	0.263505766	-3.297439012	0.000975709	0.026876316	znf185	ZDB-GENE-061103-355	znf185	
ENSDARG00000079361	171.1827592	0.671526259	0.203669657	3.297134531	0.000976767	0.026876316	abcg2b	ZDB-GENE-050517-36	abcg2b	
ENSDARG00000024920	47.65403646	0.54493679	0.165301964	3.296614125	0.000978578	0.026891235	tmem136a	ZDB-GENE-000607-58	tmem136a	
ENSDARG00000037266	60.49443615	-0.5199107	0.157912379	-3.292399895	0.000993363	0.027258782	myoz2b	ZDB-GENE-040426-1853	myoz2b	
ENSDARG00000076998	6.311780838	-1.255101417	0.381249859	-3.292070506	0.000994527	0.027258782	si:ch73-92i20.1	ZDB-GENE-070705-270	si:ch73-92i20.1	
ENSDARG00000062688	405.40399	0.353312387	0.107338436	3.291573837	0.000996285	0.027271682	gpnmb	ZDB-GENE-060503-106	gpnmb	
ENSDARG00000070794	2.18596926	-2.197670138	0.668426895	-3.287824225	0.001009649	0.027562521	greb1	ZDB-GENE-070112-332	greb1	
ENSDARG00000038683	11.00092731	1.772155748	0.539095959	3.28727329	0.001011626	0.027562521	si:zfos-2330d3.1	ZDB-GENE-110408-35	si:zfos-2330d3.1	
ENSDARG00000016200	62.77172492	-0.553867784	0.168495845	-3.287130216	0.00101214	0.027562521	trib3	ZDB-GENE-040426-2609	trib3	

ENSDARG00000097285	356.2137536	0.678790949	0.206509401	3.286973603	0.001012703	0.027562521	ANPEP	ZDB-GENE-131127-23	si:ch211-147g22.5	
ENSDARG00000115205	11.98062755	-5.735567048	1.745043478	-3.286776015	0.001013414	0.027562521	zgc:171445	ZDB-GENE-080205-2	zgc:171445	
ENSDARG00000098821	58.83515802	-0.550901741	0.167645387	-3.286113331	0.001015801	0.027592029	sec14l1	ZDB-GENE-040426-801	sec14l1	
ENSDARG00000004405	5.894809932	-1.828285493	0.557734259	-3.278058439	0.001045238	0.028355247	snx10a	ZDB-GENE-050809-44	snx10a	
ENSDARG00000098289	1.849723544	-2.950827153	0.900571965	-3.276614496	0.001050597	0.028464194	vstm2l	ZDB-GENE-040426-1548	vstm2l	
ENSDARG00000017010	13.5901869	-1.005104153	0.306899422	-3.27502784	0.001056516	0.02858799	scamp2l	ZDB-GENE-030131-6432	scamp2l	
ENSDARG00000074765	21.16967444	1.029385887	0.314597768	3.272069901	0.001067632	0.028851931	mhc1zja	ZDB-GENE-130206-11	mhc1zja	
ENSDARG00000007751	6.036811923	-1.595556762	0.48806027	-3.269179771	0.001078597	0.029111114	lmnl3	ZDB-GENE-020424-4	lmnl3	
ENSDARG00000053569	10.29713344	-1.444419637	0.442072983	-3.267378225	0.001085486	0.029259774	sox3	ZDB-GENE-980526-333	sox3	
ENSDARG00000008447	226.6510632	0.354016941	0.10836139	3.267002573	0.001086927	0.029261399	fkbp4	ZDB-GENE-030131-514	fkbp4	
ENSDARG00000103211	32.76911106	-0.733864738	0.224776139	-3.264869407	0.001095146	0.02944524	si:dkey-19b23.8	ZDB-GENE-030131-4634	si:dkey-19b23.8	
ENSDARG00000105052	121.7360708	0.776662706	0.238039928	3.26274131	0.001103402	0.029629627	cfhl5	ZDB-GENE-050208-782	cfhl5	
ENSDARG00000042859	46.74165926	0.723193227	0.221730282	3.261589808	0.001107893	0.029679207	slc5a6a	ZDB-GENE-041001-177	slc5a6a	
ENSDARG00000045423	22.06476979	-8.895594416	2.727413375	-3.261549752	0.00110805	0.029679207	si:ch211-146l10.8	ZDB-GENE-160113-6	si:ch211-146l10.8	
ENSDARG00000077040	45.65391189	-0.49718673	0.152483946	-3.260584094	0.00111183	0.029742854	si:ch211-85n16.4	ZDB-GENE-030131-7043	si:ch211-85n16.4	
ENSDARG00000091912	6.465235154	2.258290257	0.693835169	3.254793583	0.001134748	0.030317664	si:ch211-15j1.5	ZDB-GENE-081031-11	si:ch211-15j1.5	
ENSDARG00000070416	68.82772541	0.606185511	0.186355071	3.25285225	0.001142529	0.030487102	zgc:162816	ZDB-GENE-070410-94	zgc:162816	
ENSDARG00000018726	35.49109992	0.548779485	0.16876571	3.251723849	0.001147074	0.030569886	slco3a1	ZDB-GENE-030131-8662	slco3a1	
ENSDARG00000016343	91.88575339	-0.456403469	0.140397992	3.250783443	0.001150875	0.030632645	zgc:92518	ZDB-GENE-040718-53	zgc:92518	
ENSDARG00000055185	300.3862462	0.526371593	0.161997542	3.24925666	0.00115707	0.030758906	tm4sf5	ZDB-GENE-040718-65	tm4sf5	
ENSDARG00000040527	37.90773014	-0.508816326	0.156618706	-3.248758338	0.001159099	0.030774225	siae	ZDB-GENE-040426-1032	siae	
ENSDARG00000044514	7.0564573	-1.650514221	0.50822908	-3.247579262	0.001163912	0.030863344	st6gal1	ZDB-GENE-060322-3	st6gal1	
ENSDARG00000043171	405.1333387	0.848306831	0.26127821	3.246756901	0.00116728	0.030913964	zgc:112302	ZDB-GENE-050626-127	zgc:112302	
ENSDARG00000058158	36.51321353	-0.526588472	0.162220029	-3.246137203	0.001169824	0.030914739	trim55b	ZDB-GENE-060312-37	trim55b	
ENSDARG00000039020	10.120603	-1.441986983	0.444229713	-3.246039019	0.001170228	0.030914739	fbxo5	ZDB-GENE-030131-4027	fbxo5	
ENSDARG00000104643	2.037701381	-2.336730521	0.721227153	-3.239936977	0.001195561	0.031544652	tuba7l	ZDB-GENE-040704-78	tuba7l	
ENSDARG00000100844	208.8614771	0.562129143	0.173596923	3.23812849	0.001203166	0.031683317	cldn15lb	ZDB-GENE-040718-145	cldn15lb	
ENSDARG00000073704	44.01292965	-0.840284976	0.259533394	-3.237675747	0.001205077	0.031683317	si:dkeyp-72g9.4	ZDB-GENE-031204-23	si:dkeyp-72g9.4	
ENSDARG00000060319	32.20234789	-0.848611853	0.262137858	-3.237273168	0.001206778	0.031683317	scn4bb	ZDB-GENE-031116-71	scn4bb	
ENSDARG00000078284	146.5064993	-0.405545623	0.125274017	-3.237268439	0.001206798	0.031683317	phkb	ZDB-GENE-110411-149	phkb	
ENSDARG00000055455	106.4650807	1.025133136	0.317027166	3.233581359	0.001222485	0.032055436	gpm6aa	ZDB-GENE-030710-7	gpm6aa	
ENSDARG00000031763	45.2204771	0.504239132	0.155979218	3.232732795	0.001226122	0.032064588	smad6b	ZDB-GENE-050419-198	smad6b	
ENSDARG00000078473	226.5966663	0.475532914	0.147111683	3.232461917	0.001227285	0.032064588	nucks1a	ZDB-GENE-040912-175	nucks1a	
ENSDARG00000041359	61.13014717	0.411701674	0.127365561	3.232441096	0.001227374	0.032064588	zgc:161969	ZDB-GENE-030131-2597	zgc:161969	
ENSDARG00000036636	27.29801382	0.892977035	0.276414157	3.230576339	0.001235409	0.032221108	ebpl	ZDB-GENE-030616-542	ebpl	
ENSDARG00000100815	0.911180294	-3.427859602	1.06114335	-3.230345459	0.001236407	0.032221108	srsf3a	ZDB-GENE-030616-631	srsf3a	
ENSDARG00000040700	12.56659163	0.882535017	0.273383862	3.228189876	0.001245763	0.032425026	nab1b	ZDB-GENE-081105-85	nab1b	
ENSDARG00000039034	521.3621646	0.342638716	0.106180514	3.226945359	0.001251194	0.032492911	marcks1a	ZDB-GENE-040426-2146	marcks1a	
ENSDARG00000007275	141.5248825	-1.065157437	0.330087983	-3.226889469	0.001251438	0.032492911	si:ch211-251b21.1	ZDB-GENE-060809-5	si:ch211-251b21.1	
ENSDARG00000002002	14.54156107	-0.829993903	0.25726362	-3.22623892	0.001254286	0.032527	lmcd1	ZDB-GENE-040426-1067	lmcd1	
ENSDARG00000016875	430.5495735	-0.396721184	0.123083361	-3.223191019	0.00126771	0.032834925	gys1	ZDB-GENE-040426-1243	gys1	
ENSDARG00000045132	298.8461179	-0.448401112	0.13926093	-3.219862976	0.001282519	0.033177932	vdac1	ZDB-GENE-030131-6514	vdac1	
ENSDARG00000055539	1936.200171	0.631462237	0.19622284	3.218087335	0.001290485	0.033343304	epdl2	ZDB-GENE-091204-250	epdl2	
ENSDARG00000025218	78.43560954	-0.41705115	0.129641155	-3.216965714	0.001295541	0.033433158	myo5ab	ZDB-GENE-050411-72	myo5ab	
ENSDARG00000069133	98.38514144	0.556615802	0.173241377	3.212949531	0.001313794	0.033862954	mstnb	ZDB-GENE-990415-165	mstnb	
ENSDARG00000077938	119.8553955	0.359133653	0.111802474	3.212215611	0.001317155	0.033908335	cd248b	ZDB-GENE-050309-46	cd248b	
ENSDARG00000011545	262.1365021	0.272661994	0.084896501	3.211698821	0.001319526	0.03392816	arrb2b	ZDB-GENE-040426-1332	arrb2b	
ENSDARG00000098112	25.39579247	0.579967888	0.180795712	3.207863067	0.001337252	0.03434224	btc	ZDB-GENE-050311-1	btc	
ENSDARG00000053575	1.268407183	-3.468257378	1.081910554	-3.205678478	0.001347445	0.034562116	gpat2	ZDB-GENE-050309-118	gpat2	

ENSDARG0000062271	16.58873165	-0.839279505	0.26186851	-3.204965369	0.001350787	0.034598599	slc25a15b	ZDB-GENE-060526-35	slc25a15b	
ENSDARG0000027316	209.7116264	-0.483398361	0.15084144	-3.204678776	0.001352133	0.034598599	tcp11l2	ZDB-GENE-040426-1956	tcp11l2	
ENSDARG0000041592	46.72921429	-0.443974252	0.138567772	-3.204022453	0.001355219	0.03460625	dcun1d2b	ZDB-GENE-040625-171	dcun1d2b	
ENSDARG0000043856	658.4788325	0.392121578	0.122388046	3.203920584	0.001355699	0.03460625	amd1	ZDB-GENE-040426-760	amd1	
ENSDARG0000034916	87.30149836	-0.356431554	0.11133222	-3.201513056	0.001367079	0.034839789	hat1	ZDB-GENE-040912-99	hat1	
ENSDARG0000071450	3.622310297	-1.981565601	0.619046907	-3.200994269	0.001369543	0.034839789	tdrd5	ZDB-GENE-050208-502	tdrd5	
ENSDARG0000061242	186.1663469	-0.560980647	0.175254743	-3.200944162	0.001369781	0.034839789	tuft1a	ZDB-GENE-061103-184	tuft1a	
ENSDARG00000103977	23.51540411	-0.642715617	0.200815503	-3.200527885	0.001371761	0.034848321	terf2ip	ZDB-GENE-131121-641	terf2ip	
ENSDARG0000016357	160.0477923	0.463377409	0.144837749	3.199286193	0.001377683	0.034956858	fmo5	ZDB-GENE-030131-6606	fmo5	
ENSDARG0000041895	256.2782907	-0.447307568	0.139874845	-3.197912867	0.001384261	0.035073956	cad	ZDB-GENE-021030-4	cad	
ENSDARG0000060169	6.733603151	-1.085823007	0.339570958	-3.197632134	0.001385609	0.035073956	mns1	ZDB-GENE-030521-42	mns1	
ENSDARG0000005894	162.188521	0.605073297	0.189266668	3.196935329	0.001388961	0.03508806	slc7a9	ZDB-GENE-080116-2	slc7a9	
ENSDARG00000059701	304.3539773	0.268321682	0.083933731	3.196827781	0.001389479	0.03508806	flii	ZDB-GENE-071212-3	flii	
ENSDARG00000075143	45.71028904	0.545726478	0.170747485	3.196102584	0.001392976	0.035134497	nanp	ZDB-GENE-050522-94	nanp	
ENSDARG0000017988	61.16333435	0.465024711	0.145528392	3.195422589	0.001396262	0.035175517	dse	ZDB-GENE-041001-202	dse	
ENSDARG0000053761	17.19955178	0.89360716	0.279781679	3.193944521	0.001403431	0.03524981	si:dkey-187j14.4	ZDB-GENE-131119-26	si:dkey-187j14.4	
ENSDARG0000078093	12.54306355	1.125939336	0.352529954	3.193882737	0.001403731	0.03524981	zgc:172065	ZDB-GENE-080214-2	zgc:172065	
ENSDARG00000037491	1.159150839	-4.031707299	1.262359948	-3.193785818	0.001404203	0.03524981	bmp15	ZDB-GENE-030131-6115	bmp15	
ENSDARG0000001154	5.993138352	-1.621373926	0.508223467	-3.19027757	0.001421362	0.035638341	rimbp2	ZDB-GENE-040724-96	rimbp2	
ENSDARG0000023058	71.12211815	0.412400648	0.129284565	3.189867626	0.00142338	0.035646746	foxo3a	ZDB-GENE-050116-1	foxo3a	
ENSDARG0000013266	36.80926	0.646599407	0.202988956	3.185392044	0.00144558	0.036159987	colec11	ZDB-GENE-041114-11	colec11	
ENSDARG00000096110	75.26534518	0.559398227	0.175687254	3.184056978	0.001452264	0.036284342	zgc:123278	ZDB-GENE-051127-21	zgc:123278	
ENSDARG0000063912	29288.28351	-0.308896063	0.097058807	-3.182566052	0.001459762	0.036428717	mt-co3	ZDB-GENE-011205-16	mt-co3	
ENSDARG0000016536	14.30152025	1.062547278	0.334075695	3.180558462	0.001469915	0.036638923	npas2	ZDB-GENE-030408-3	npas2	
ENSDARG00000095540	1.859374561	2.865763973	0.901180486	3.180011128	0.001472694	0.036665061	sid1	ZDB-GENE-020620-1	sid1	
ENSDARG0000062702	4.367922617	-1.402911201	0.441523156	-3.177435161	0.001485839	0.036948912	ankmy1	ZDB-GENE-050208-740	ankmy1	
ENSDARG0000022712	186.9385694	0.328370674	0.103393972	3.175916993	0.001493637	0.037099277	stat3	ZDB-GENE-980526-68	stat3	
ENSDARG00000108812	1.298136248	-2.790654187	0.879142916	-3.174289567	0.001502038	0.037264251	zgc:113886	ZDB-GENE-050913-91	zgc:113886	
ENSDARG0000013763	952.5174314	0.447978061	0.141351615	3.169246142	0.001528349	0.037855761	rrbp1a	ZDB-GENE-030131-9795	rrbp1a	
ENSDARG00000103025	1293.468916	1.170711302	0.369421879	3.169036189	0.001529454	0.037855761	hmgcs1	ZDB-GENE-040426-1042	hmgcs1	
ENSDARG00000100886	4.041028634	-1.546997906	0.488250437	-3.168451656	0.001532532	0.037887704	si:dkeyp-97a10.1	ZDB-GENE-131121-449	si:dkeyp-97a10.1	
ENSDARG00000091609	192.7237089	0.717162033	0.226448605	3.166996919	0.00154022	0.038033369	spink4	ZDB-GENE-130821-1	spink4	
ENSDARG00000061274	115.6465088	1.317349968	0.41601586	3.166585927	0.001542398	0.038042817	lss	ZDB-GENE-050119-7	lss	
ENSDARG0000003795	1325.434694	-0.362034523	0.114351402	-3.165982369	0.001545602	0.038073544	idh2	ZDB-GENE-031118-95	idh2	
ENSDARG00000100185	5.440194487	-2.115522235	0.668269003	-3.165674637	0.001547238	0.038073544	elovl7b	ZDB-GENE-030131-5485	elovl7b	
ENSDARG0000006588	1011.927339	0.585279367	0.185088435	3.162160662	0.001566031	0.03845327	zgc:111983	ZDB-GENE-050417-335	zgc:111983	
ENSDARG0000052405	22.45948179	-0.652514478	0.206359682	-3.16202503	0.001566761	0.03845327	pak6b	ZDB-GENE-041014-121	pak6b	
ENSDARG00000019195	41.50796361	-0.729644586	0.230792526	-3.161474066	0.001569728	0.03845327	vps9d1	ZDB-GENE-050306-57	vps9d1	
ENSDARG00000021866	92.79452445	-0.615900761	0.194827197	-3.161266852	0.001570845	0.03845327	upk1a	ZDB-GENE-060421-2603	upk1a	
ENSDARG00000076939	78.9534155	-0.497737187	0.157456942	-3.161100309	0.001571744	0.03845327	znf451	ZDB-GENE-081107-14	znf451	
ENSDARG00000021494	404.0111755	-0.420839229	0.133147875	-3.160690547	0.001573956	0.038462987	hnf4a	ZDB-GENE-030131-1077	hnf4a	
ENSDARG0000043843	79.30380305	0.549372555	0.173867923	3.159711962	0.001579252	0.038547936	akap7	ZDB-GENE-040724-128	akap7	
ENSDARG00000012534	9.233468244	-1.179512721	0.373554375	-3.157539576	0.001591066	0.038791626	slc6a6a	ZDB-GENE-081104-1	slc6a6a	
ENSDARG00000087709	7.602806981	-1.339692495	0.424883653	-3.153080817	0.001615571	0.039317345	fat3b	ZDB-GENE-130530-969	fat3b	
ENSDARG00000045414	2233.201505	0.650646276	0.206361655	3.152941751	0.001616341	0.039317345	elovl2	ZDB-GENE-060421-5612	elovl2	
ENSDARG00000020764	20.90760266	-0.769475315	0.244121853	-3.152013246	0.001621489	0.039397352	slmapb	ZDB-GENE-040426-809	slmapb	
ENSDARG00000059923	76.58200978	-0.527159483	0.167363658	-3.149784662	0.001633908	0.039653629	slc25a47a	ZDB-GENE-060616-266	slc25a47a	
ENSDARG00000027611	169.1033194	-0.387433817	0.123037962	-3.148896577	0.001638882	0.039728821	cavin2a	ZDB-GENE-090313-215	cavin2a	
ENSDARG0000060498	13.56965007	0.955946142	0.303635979	3.14832961	0.001642064	0.039760474	tnfrsf9a	ZDB-GENE-060421-8213	tnfrsf9a	

ENSDARG00000100236	5.357761148	-1.186235324	0.376836763	-3.147875796	0.0016444616	0.039776792	cspp1a	ZDB-GENE-120709-73	cspp1a	
ENSDARG00000039255	123.7881845	-0.383374097	0.121938351	-3.143999359	0.001666558	0.040225801	klhl21	ZDB-GENE-040426-2627	klhl21	
ENSDARG00000096587	3.621627746	1.705911423	0.542722456	3.143248276	0.001670841	0.040225801	itgam	ZDB-GENE-110510-4	itgam	
ENSDARG00000023920	162.085795	0.296727356	0.094404058	3.143163132	0.001671327	0.040225801	llgl2	ZDB-GENE-030131-9877	llgl2	
ENSDARG00000088923	3.986709357	-7.02379099	2.234649463	-3.143128758	0.001671523	0.040225801	si:ch211-12h2.8	ZDB-GENE-091118-43	si:ch211-12h2.8	
ENSDARG00000060439	1.742533378	-3.487171542	1.109643778	-3.142604509	0.001674519	0.040225801	clcn2c	ZDB-GENE-050506-73	clcn2c	
ENSDARG00000056515	39.80929773	-0.852115666	0.271159921	-3.142483827	0.00167521	0.040225801	spsb1	ZDB-GENE-030131-6122	spsb1	
ENSDARG00000043175	736.2395396	0.770201444	0.24511039	3.142263553	0.001676471	0.040225801	CELA1 (1 of many)	ZDB-GENE-050522-187	zgc:112368	
ENSDARG00000095281	45.24238569	-5.595684281	1.781029162	-3.141826311	0.001678976	0.040240345	zgc:152652	ZDB-GENE-060818-27	zgc:152652	
ENSDARG00000102690	10.67839668	-0.957741978	0.304904287	-3.141123361	0.001683011	0.04029148	rims2b	ZDB-GENE-060503-893	rims2b	
ENSDARG00000041257	22.0221236	-1.059992849	0.33751928	-3.140540147	0.001686366	0.040326224	smtnl1	ZDB-GENE-050306-23	smtnl1	
ENSDARG00000071010	15.81691157	-0.814906995	0.259637939	-3.138628351	0.001697406	0.040500831	tuft1b	ZDB-GENE-060503-150	tuft1b	
ENSDARG00000100552	34.35635252	-0.508905013	0.162143247	-3.138613673	0.001697491	0.040500831	taco1	ZDB-GENE-070410-35	taco1	
ENSDARG00000052000	59.13076043	0.485905203	0.154845902	3.137992012	0.001701095	0.040541173	cav2	ZDB-GENE-040625-164	cav2	
ENSDARG00000035603	129.5875004	0.52061325	0.165992207	3.136371633	0.001710523	0.040720057	dao.2	ZDB-GENE-040426-2634	dao.2	
ENSDARG00000037057	320.6871051	0.436243724	0.139139406	3.1352996	0.001716787	0.040792044	gcdha	ZDB-GENE-040426-1855	gcdha	
ENSDARG00000034989	10.57493606	-5.640124739	1.798970809	-3.135195252	0.001717398	0.040792044	retsatl	ZDB-GENE-051113-252	retsatl	
ENSDARG00000020123	220.7877987	-0.456440065	0.145632296	-3.134195352	0.001723261	0.040885474	coq8a	ZDB-GENE-040718-487	coq8a	
ENSDARG00000078550	6.852800127	-1.561973576	0.498649148	-3.132409994	0.001733776	0.041011886	zgc:194839	ZDB-GENE-081022-153	zgc:194839	
ENSDARG00000103398	761.3516238	0.746046943	0.23817337	3.132369262	0.001734016	0.041011886	fabp1b.2	ZDB-GENE-100318-6	fabp1b.2	
ENSDARG00000102668	16.86953856	0.777303323	0.248156973	3.132304982	0.001734396	0.041011886	slc16a5b	ZDB-GENE-131120-181	slc16a5b	
ENSDARG00000009874	8.603876839	3.399769165	1.086129325	3.130169757	0.001747053	0.041265122	cyp2k6	ZDB-GENE-040426-1571	cyp2k6	
ENSDARG00000052575	18.91084019	1.044463409	0.334003433	3.127103811	0.001765376	0.041619009	arl13a	ZDB-GENE-040426-1790	arl13a	
ENSDARG00000051962	135.8930373	0.321536558	0.102825699	3.127005796	0.001765964	0.041619009	mmp15a	ZDB-GENE-070817-4	mmp15a	
ENSDARG00000011925	115.0044256	-0.39404523	0.126075099	-3.125480237	0.00177515	0.041789003	spns1	ZDB-GENE-020228-1	spns1	
ENSDARG00000099712	20.36539189	-0.919741187	0.294359154	-3.124554392	0.001780746	0.041874212	zgc:163073	ZDB-GENE-070410-135	zgc:163073	
ENSDARG00000035751	791.1918886	-0.363260713	0.116473584	-3.118824899	0.001815738	0.04264972	ipo7	ZDB-GENE-030131-458	ipo7	
ENSDARG00000019969	82.63512675	0.458489962	0.147266894	3.113326767	0.001849911	0.043404274	smarcd3b	ZDB-GENE-080509-2	smarcd3b	
ENSDARG00000007264	50.85467298	-0.573834435	0.184370489	-3.112398506	0.001855738	0.043492836	nipsnap2	ZDB-GENE-991008-18	nipsnap2	
ENSDARG00000092778	66.00734491	-0.991651128	0.319220739	-3.106474636	0.001893325	0.044324737	si:ch73-338o16.4	ZDB-GENE-131119-14	si:ch73-338o16.4	
ENSDARG00000089861	36.57622327	-0.506753783	0.163185958	-3.105376158	0.001900372	0.044440593	usp44	ZDB-GENE-040426-774	usp44	
ENSDARG00000040059	111.0650733	-0.837471545	0.269713314	-3.105043394	0.001902511	0.044441569	gbp	ZDB-GENE-990714-7	gbp	
ENSDARG00000067713	90.57403036	0.361809018	0.116619577	3.10247239	0.001919114	0.044780043	snx18a			
ENSDARG00000092578	77.72190695	-1.076257441	0.346974807	-3.10183166	0.001923273	0.044827705	si:ch211-222e20.4	ZDB-GENE-091118-60	si:ch211-222e20.4	
ENSDARG00000041078	286.4876912	0.433860828	0.139931145	3.100530819	0.001931741	0.044975603	chka	ZDB-GENE-050208-149	chka	
ENSDARG00000092498	3.260334585	-5.315799847	1.715031957	-3.099533991	0.001938253	0.045077688	si:dkeyp-46h3.2	ZDB-GENE-030131-7351	si:dkeyp-46h3.2	
ENSDARG00000028804	135.6242268	-0.632207898	0.204081726	-3.097817282	0.001949516	0.045289904	ankrd9	ZDB-GENE-041114-3	ankrd9	
ENSDARG00000016143	127.8139121	-0.465470917	0.150471191	-3.093422155	0.001978625	0.045915792	xiap	ZDB-GENE-030825-7	xiap	
ENSDARG00000074842	78.35978845	0.601612515	0.19450559	3.09303457	0.001981211	0.045925501	snx8a	ZDB-GENE-031202-1	snx8a	
ENSDARG00000104256	596.5516143	0.733804616	0.237332103	3.091889409	0.001988869	0.046005338	bco1	ZDB-GENE-010508-1	bco1	
ENSDARG00000028322	154.4341073	-0.360111823	0.116470547	-3.091870275	0.001988997	0.046005338	pex14	ZDB-GENE-060130-169	pex14	
ENSDARG00000034138	0.849866087	-3.292062453	1.065158075	-3.090679712	0.001996989	0.046139814	shisa2a	ZDB-GENE-030925-31	shisa2a	
ENSDARG00000019418	11.69034718	0.974788879	0.315615682	3.088531197	0.002011486	0.046380098	kcj2a	ZDB-GENE-120319-1	kcj2a	
ENSDARG00000098588	31.77265564	0.665787772	0.215570668	3.088489633	0.002011767	0.046380098	gchfr	ZDB-GENE-040426-1731	gchfr	
ENSDARG0000004588	175.0406777	0.294759642	0.09545624	3.087903346	0.00201574	0.046390962	sox4a	ZDB-GENE-030131-8290	sox4a	
ENSDARG00000004017	92.10640798	0.572805248	0.185507503	3.087774024	0.002016618	0.046390962	spag1a	ZDB-GENE-030131-9443	spag1a	
ENSDARG00000015649	85.54960639	0.344682055	0.111661124	3.086858206	0.002022841	0.046429841	rap2c	ZDB-GENE-041024-1	rap2c	
ENSDARG00000069956	120.2495007	-0.416328647	0.134884614	-3.086554022	0.002024911	0.046429841	pdlim2	ZDB-GENE-070308-4	pdlim2	
ENSDARG00000017696	70.26411402	-0.524637141	0.169983319	-3.086403668	0.002025936	0.046429841	utp25	ZDB-GENE-021217-2	utp25	

ENSDARG00000075737	12.90956288	-5.644968883	1.829078355	-3.086236775	0.002027073	0.046429841	zgc:165518	ZDB-GENE-070720-15	zgc:165518	
ENSDARG00000038207	331.936552	0.39432907	0.127813457	3.085192115	0.002034207	0.046499867	aldh4a1	ZDB-GENE-040426-1179	aldh4a1	
ENSDARG00000011609	136.4140357	-0.462563999	0.149940958	-3.084974275	0.002035698	0.046499867	FOXK2	ZDB-GENE-030131-5310	si:ch211-262e15.1	
ENSDARG00000005800	100.9499364	-0.657489468	0.213136668	-3.084825689	0.002036715	0.046499867	ampd3a	ZDB-GENE-110407-2	ampd3a	
ENSDARG00000023151	8015.287487	-0.578892179	0.187763825	-3.083086849	0.002048654	0.046720942	ucp1	ZDB-GENE-010503-1	ucp1	
ENSDARG00000101362	68.95832242	-0.664440208	0.21553322	-3.082774008	0.002050808	0.046720942	mibp	ZDB-GENE-030404-1	mibp	
ENSDARG00000054666	230.2570966	-0.410267393	0.13311252	-3.082109719	0.002055391	0.046775039	pgpep1	ZDB-GENE-050522-88	pgpep1	
ENSDARG00000061858	792.9546191	-0.673339963	0.218556976	-3.080844068	0.002064147	0.046923912	zgc:153968	ZDB-GENE-061027-211	zgc:153968	
ENSDARG00000095463	5.497370877	-5.490267684	1.782765074	-3.079636102	0.002072537	0.047031352	si:ch73-90k17.1	ZDB-GENE-090312-218	si:ch73-90k17.1	
ENSDARG00000013072	89.98521624	0.394529275	0.128113698	3.079524524	0.002073313	0.047031352	mmp15b	ZDB-GENE-070817-6	mmp15b	
ENSDARG00000069013	317.7729684	0.445306716	0.144734593	3.076712381	0.002092971	0.047426509	prdx4	ZDB-GENE-030131-1096	prdx4	
ENSDARG00000055989	38.02708237	-0.48748315	0.158463871	-3.076304699	0.002095836	0.04744067	tmem161b	ZDB-GENE-040426-2693	tmem161b	
ENSDARG00000100225	36.5937944	-0.469100458	0.152513072	-3.075804915	0.002099352	0.047469542	kif16ba	ZDB-GENE-090313-233	kif16ba	
ENSDARG00000018524	273.247774	-0.511851687	0.166460566	-3.07491257	0.002105643	0.047561036	midn	ZDB-GENE-030131-2433	midn	
ENSDARG00000079241	9.123095778	-0.960008064	0.31231826	-3.073813434	0.002113416	0.047685767	wdr90	ZDB-GENE-070424-67	wdr90	
ENSDARG00000097527	1.696936688	2.404399122	0.782383693	3.073171315	0.002117969	0.047700612	ms4a17a.5	ZDB-GENE-040912-55	ms4a17a.5	
ENSDARG00000053558	6.451465959	-1.744260472	0.567592522	-3.073085713	0.002118576	0.047700612	rtkn2a	ZDB-GENE-041010-225	rtkn2a	
ENSDARG00000032496	126.4930216	0.538855078	0.175459273	3.071111985	0.002132631	0.047956958	pon1	ZDB-GENE-040912-6	pon1	
ENSDARG00000104636	50.76286604	-0.453087955	0.147550005	-3.070741721	0.002135278	0.047956958	si:key-112a7.4	ZDB-GENE-030131-9661	si:key-112a7.4	
ENSDARG00000008858	63.33204569	0.531879072	0.173220292	3.070535594	0.002136752	0.047956958	cyp7b1	ZDB-GENE-070912-293	cyp7b1	
ENSDARG00000104207	391.8772711	0.591034819	0.192573423	3.069140123	0.002146759	0.048094215	pcyt1bb	ZDB-GENE-051120-48	pcyt1bb	
ENSDARG00000053959	28.96422926	0.712809033	0.232257237	3.069049825	0.002147408	0.048094215	cdc42ep2	ZDB-GENE-050320-104	cdc42ep2	
ENSDARG00000078875	1.223597895	3.77490563	1.230608156	3.067512279	0.002158486	0.048285702	adm2b	ZDB-GENE-081104-279	adm2b	
ENSDARG00000087392	15.91016015	-6.684079982	2.17919003	-3.067231352	0.002160516	0.048285702	si:ch73-160p18.3	ZDB-GENE-141212-268	si:ch73-160p18.3	
ENSDARG00000025421	129.3836933	-0.312463673	0.101922413	-3.065701276	0.002171602	0.048482321	tldr3	ZDB-GENE-040426-19	tldr3	
ENSDARG00000041586	20.0460186	-0.602630051	0.196651626	-3.064454959	0.00218067	0.048612975	dhx40	ZDB-GENE-080507-1	dhx40	
ENSDARG00000044525	46.04915397	-0.540460112	0.176375022	-3.064266727	0.002182043	0.048612975	pparda	ZDB-GENE-990415-212	pparda	
ENSDARG00000054473	11.75770331	-0.855995412	0.279592488	-3.061582299	0.002201705	0.04899949	tinf2	ZDB-GENE-030131-6168	tinf2	
ENSDARG00000024431	17.18126885	0.763641169	0.249461249	3.061161494	0.002204801	0.049016923	ets1	ZDB-GENE-021115-5	ets1	
ENSDARG00000013711	697.4915346	0.377786077	0.123478874	3.059519953	0.00221692	0.049234684	zgc:77486	ZDB-GENE-040426-2056	zgc:77486	
ENSDARG00000104760	50.02247696	-0.501862311	0.164098205	-3.058304705	0.002225931	0.049353623	si:ch211-1i11.3	ZDB-GENE-030131-8638	si:ch211-1i11.3	
ENSDARG00000104500	86.89912946	-0.532159872	0.174012541	-3.058169654	0.002226935	0.049353623	fyc01a	ZDB-GENE-110411-276	fyc01a	
ENSDARG00000004713	15.27287285	-0.990021195	0.323842805	-3.05710419	0.002234866	0.04947764	mad2l1	ZDB-GENE-030515-3	mad2l1	
ENSDARG00000029463	94.68992599	0.383981841	0.12563159	3.056411542	0.002240036	0.049481988	asap1a	ZDB-GENE-070912-129	asap1a	
ENSDARG00000091136	603.1109635	0.963304438	0.315187658	3.056288572	0.002240955	0.049481988	zgc:174259	ZDB-GENE-080213-10	zgc:174259	
ENSDARG00000104493	51.69076939	0.504077318	0.164956939	3.055811533	0.002244523	0.049481988	LO018176.1			
ENSDARG00000026369	3450.643843	0.605558339	0.198183573	3.055542542	0.002246537	0.049481988	dbi	ZDB-GENE-040426-1861	dbi	
ENSDARG00000068214	947.0039324	0.260846805	0.085370669	3.05546165	0.002247143	0.049481988	ccni	ZDB-GENE-040426-2898	ccni	
ENSDARG00000054211	15.25516398	-0.845671217	0.276830029	-3.054839175	0.002251812	0.049481988	st8sia7.1	ZDB-GENE-090504-4	st8sia7.1	
ENSDARG00000103271	165.6894414	-0.378675739	0.12396526	-3.054692402	0.002252915	0.049481988	pla2g15	ZDB-GENE-030131-6948	pla2g15	
ENSDARG00000104696	63.14260866	-0.445467512	0.145835847	-3.054581716	0.002253746	0.049481988	apooa	ZDB-GENE-031118-91	apooa	
ENSDARG00000029874	118.8872079	0.417213427	0.13662561	3.053698536	0.002260391	0.049576505	khk	ZDB-GENE-040718-381	khk	
ENSDARG00000038312	46.34681924	-0.492441803	0.161453116	-3.050060685	0.002287951	0.050129084	rcl1	ZDB-GENE-040930-11	rcl1	
ENSDARG00000053961	42.8396183	-0.700862199	0.229967936	-3.047651825	0.00230637	0.050480432	slc2a11a	ZDB-GENE-080723-20	slc2a11a	
ENSDARG00000026925	101.605054	1.189103537	0.39025504	3.046990856	0.002311447	0.050539356	nos2a	ZDB-GENE-040305-1	nos2a	
ENSDARG00000057064	859.0098111	-0.594933648	0.195306477	-3.046154216	0.002317889	0.050627956	enpep	ZDB-GENE-050309-218	enpep	
ENSDARG00000101271	7.413502751	-1.109090149	0.36415873	-3.045622853	0.002321989	0.050665273	si:ch211-227n13.3	ZDB-GENE-141222-2	si:ch211-227n13.3	
ENSDARG00000102586	8.061486131	-1.072449023	0.352175583	-3.045211179	0.00232517	0.050682483	zgc:152938	ZDB-GENE-061013-458	zgc:152938	
ENSDARG00000088079	94.78852999	0.685669888	0.225286192	3.043550444	0.002338042	0.050782316	tmed6	ZDB-GENE-131121-182	tmed6	

ENSDARG00000104732	29.15706601	-0.763330174	0.25080762	-3.043488771	0.002338522	0.050782316	mlycd	ZDB-GENE-070410-120	mlycd	
ENSDARG00000095217	430.9843127	-0.986818186	0.324272823	-3.043172653	0.00234098	0.050782316	zgc:66156	ZDB-GENE-040426-1554	zgc:66156	
ENSDARG0000007753	14.15672699	0.803289423	0.263964582	3.04317124	0.002340991	0.050782316	cpne2	ZDB-GENE-030131-7896	cpne2	
ENSDARG0000017314	39392.55521	0.696768502	0.228968508	3.043075697	0.002341734	0.050782316	CELA1 (1 of many)	ZDB-GENE-040808-55	zgc:92041	
ENSDARG00000101170	9.604498278	-0.860359549	0.282792132	-3.042374427	0.002347197	0.050848741	rab42b	ZDB-GENE-050417-172	rab42b	
ENSDARG00000052099	1003.972635	0.441123602	0.145021789	3.041774645	0.002351879	0.050883638	agxta	ZDB-GENE-040718-16	agxta	
ENSDARG00000063899	12765.10769	-0.386555398	0.127091456	-3.041552979	0.002353611	0.050883638	mt-nd2	ZDB-GENE-011205-8	mt-nd2	
ENSDARG00000051956	61.9025332	-0.451405787	0.14851146	-3.039535043	0.002369436	0.051173545	isca1	ZDB-GENE-050626-94	isca1	
ENSDARG00000041317	137.1508289	-0.406979461	0.134084125	-3.035254617	0.002403327	0.051852637	rangap1a	ZDB-GENE-060929-492	rangap1a	
ENSDARG00000037398	13.82232233	-1.061181271	0.349727285	-3.034310778	0.002410859	0.051962236	zgc:113229	ZDB-GENE-050417-475	zgc:113229	
ENSDARG00000038095	20.270346	-1.398580094	0.461130591	-3.032937134	0.00242186	0.052146299	socs1a	ZDB-GENE-040801-205	socs1a	
ENSDARG00000040732	3.7050744	-4.593715422	1.514942474	-3.032270532	0.002427216	0.052208546	elavl2	ZDB-GENE-040704-9	elavl2	
ENSDARG00000055575	118.6300142	0.320935134	0.105872253	3.031343205	0.002434683	0.052316061	pcolce2b	ZDB-GENE-040426-1177	pcolce2b	
ENSDARG00000074697	216.9031714	0.588795431	0.194271469	3.030786946	0.002439173	0.05235943	npdc1a	ZDB-GENE-031204-31	npdc1a	
ENSDARG00000113928	5.981808757	-1.186399818	0.391527118	-3.030185556	0.002444035	0.052410705	B3GAT1			
ENSDARG00000104593	82.51925382	1.276812918	0.421489729	3.029285956	0.002451325	0.052513884	cyp2k18	ZDB-GENE-040426-1584	cyp2k18	
ENSDARG00000021120	45.23222176	-0.623863375	0.206096066	-3.027051344	0.00246952	0.052850224	ndc1	ZDB-GENE-030131-7176	ndc1	
ENSDARG00000075850	76.06051781	-0.478542921	0.158112155	-3.026604245	0.002473175	0.05287504	gnal2	ZDB-GENE-040718-441	gnal2	
ENSDARG00000020574	2948.433249	-0.796411746	0.263302467	-3.024702939	0.002488774	0.053154903	atp2a1	ZDB-GENE-020905-1	atp2a1	
ENSDARG00000063169	1.521015241	-3.427423909	1.133432043	-3.023934192	0.002495107	0.053236489	ubn1	ZDB-GENE-070928-28	ubn1	
ENSDARG00000019856	96.94432634	-0.642784246	0.212677656	-3.022340286	0.002508284	0.053463797	atp1a1b	ZDB-GENE-001212-5	atp1a1b	
ENSDARG00000079188	0.923943881	3.03537567	1.004495485	3.021791251	0.002512838	0.053507028	nxph2b	ZDB-GENE-090708-1	nxph2b	
ENSDARG00000062054	210.2673559	-0.642749255	0.212790149	-3.020578061	0.002522927	0.053667919	cpt1ab	ZDB-GENE-030131-3250	cpt1ab	
ENSDARG00000094316	13.99504862	0.932973593	0.309083416	3.018517149	0.00254015	0.053943999	si:rp71-80o10.4	ZDB-GENE-090313-413	si:rp71-80o10.4	
ENSDARG00000078552	38.71699933	-0.745297545	0.24693349	-3.018211693	0.002542712	0.053943999	grhl3	ZDB-GENE-030131-9854	grhl3	
ENSDARG0000007697	199.2653846	1.540762969	0.510505456	3.018112637	0.002543543	0.053943999	fabp7a	ZDB-GENE-000627-1	fabp7a	
ENSDARG00000019709	118.6622285	0.431595116	0.143043175	3.017236701	0.002550905	0.054044847	rhousa	ZDB-GENE-040618-3	rhousa	
ENSDARG00000097869	6.529635213	-1.19317029	0.395519347	-3.016717891	0.002555275	0.054044847	si:dkey-1m11.6	ZDB-GENE-131121-262	si:dkey-1m11.6	
ENSDARG00000102569	80.92795347	-0.450466687	0.149334033	-3.016503857	0.00255708	0.054044847	polr3a	ZDB-GENE-050208-103	polr3a	
ENSDARG00000011498	41.32423262	0.425613512	0.141102853	3.016335263	0.002558502	0.054044847	si:ch211-212o1.2	ZDB-GENE-041111-310	si:ch211-212o1.2	
ENSDARG00000040100	18.08992328	0.818417815	0.271390013	3.015651923	0.002564274	0.054112831	si:dkey-95h12.1	ZDB-GENE-060503-85	si:dkey-95h12.1	
ENSDARG00000074148	27.57621001	0.70452141	0.233652315	3.015255431	0.002567629	0.054125425	rbpj1	ZDB-GENE-050307-4	rbpj1	
ENSDARG00000095688	3.790221765	-1.929251601	0.639889153	-3.014977813	0.002569981	0.054125425	zgc:162509	ZDB-GENE-050809-100	zgc:162509	
ENSDARG00000011449	30.98523577	0.72936889	0.242135121	3.012239147	0.002593282	0.054561934	fes	ZDB-GENE-100812-10	fes	
ENSDARG00000021985	27.99556339	-0.545153761	0.181034476	-3.01132565	0.002601097	0.054672072	ercc2	ZDB-GENE-040426-997	ercc2	
ENSDARG00000022996	101.0980958	-0.690641273	0.229371803	-3.011012092	0.002603785	0.05467432	setx	ZDB-GENE-070402-1	setx	
ENSDARG00000052343	3.184153828	-1.618396326	0.53771572	-3.009761972	0.002614525	0.054845486	spata18	ZDB-GENE-050522-306	spata18	
ENSDARG00000039256	21.7822663	-1.260022409	0.418781124	-3.008785106	0.002622946	0.054967706	spega	ZDB-GENE-030131-3230	spega	
ENSDARG00000062042	19.87380545	0.925825855	0.307871803	3.007179761	0.002636838	0.055204233	mthfsd	ZDB-GENE-030131-3513	mthfsd	
ENSDARG00000037359	42.41891078	-0.653939342	0.217498271	-3.006641567	0.00264151	0.055247461	si:ch1073-272o11.3	ZDB-GENE-121214-325	si:ch1073-272o11.3	
ENSDARG00000100549	35.06375105	-0.541600398	0.180237288	-3.004929799	0.002656422	0.055504539	CABZ01079427.1			
ENSDARG00000112575	43.94659766	-0.801865191	0.266951318	-3.003788099	0.00266641	0.055658346	CU467905.1			
ENSDARG00000042141	53.26419799	0.490595609	0.163353551	3.00327484	0.002670911	0.055697433	myo6b	ZDB-GENE-030318-3	myo6b	
ENSDARG00000100719	29.44339022	0.857222126	0.285530661	3.002206914	0.002680299	0.05583825	uraha	ZDB-GENE-060825-253	uraha	
ENSDARG00000016908	11.99639237	-6.348352768	2.115456589	-3.000937386	0.002691499	0.055995959	zgc:171779	ZDB-GENE-071004-38	zgc:171779	
ENSDARG00000102119	119.9161796	0.664765474	0.221533104	3.000750048	0.002693155	0.055995959	si:ch73-359m17.2	ZDB-GENE-141222-90	si:ch73-359m17.2	
ENSDARG00000055226	141.1960412	-0.596543145	0.1988893	-2.999372742	0.002705361	0.056194594	slc7a7	ZDB-GENE-051127-5	slc7a7	
ENSDARG00000008788	14.69242009	-1.054237414	0.351558336	-2.998755275	0.00271085	0.056253447	camk1gb	ZDB-GENE-040426-1694	camk1gb	
ENSDARG00000068140	77.41061309	0.460447727	0.153584431	2.998010431	0.002717484	0.056335937	si:dkey-24l11.2	ZDB-GENE-050419-208	si:dkey-24l11.2	

ENSDARG00000029432	1.679065962	-2.615132545	0.872478094	-2.997361839	0.002723273	0.056400761	tph1a	ZDB-GENE-030317-1	tph1a	
ENSDARG00000092610	51.50999944	-0.544233751	0.181691724	-2.995368959	0.002741131	0.056715168	lamp1b	ZDB-GENE-030131-9303	lamp1b	
ENSDARG00000054707	128.9488151	-0.27318215	0.09122454	-2.994612513	0.002747937	0.056800525	dhx8	ZDB-GENE-050809-39	dhx8	
ENSDARG00000077298	98.89225758	0.374361446	0.125128923	2.991805872	0.002773326	0.057269443	gas1a	ZDB-GENE-050302-155	gas1a	
ENSDARG00000075022	1.001643624	-4.424878763	1.479224508	-2.991350358	0.002777466	0.057299102	si:ch211-93e11.8	ZDB-GENE-121214-283	si:ch211-93e11.8	
ENSDARG00000098497	42.0891706	0.463245011	0.154916453	2.990289292	0.002787133	0.057442604	hrasa	ZDB-GENE-050417-95	hrasa	
ENSDARG00000099757	23.86613728	-0.73376553	0.245449464	-2.989477012	0.002794555	0.057499424	wdr47b	ZDB-GENE-121114-10	wdr47b	
ENSDARG00000090870	40.26331531	-5.772806634	1.93109623	-2.98939356	0.002795318	0.057499424	si:ch1073-263o8.2	ZDB-GENE-030131-5362	si:ch1073-263o8.2	
ENSDARG00000006019	1668.564401	0.693738685	0.23210913	2.988847042	0.002800323	0.057546498	tktb	ZDB-GENE-030909-13	tktb	
ENSDARG00000104542	23.7412033	0.582923668	0.195154857	2.986980072	0.002817481	0.057842992	ppt2	ZDB-GENE-010430-4	ppt2	
ENSDARG00000025783	34.35211528	1.15613105	0.387318533	2.984961862	0.002836137	0.058169633	si:ch211-125e6.11	ZDB-GENE-070912-35	si:ch211-125e6.11	
ENSDARG00000060010	303.2312103	0.329849534	0.110524829	2.984393086	0.002841415	0.058221524	iqgap2	ZDB-GENE-030131-2878	iqgap2	
ENSDARG00000037178	3.034913781	1.932224681	0.647609638	2.983625579	0.002848551	0.058311356	zic2b	ZDB-GENE-030219-92	zic2b	
ENSDARG00000057035	109.3087542	0.814930365	0.273233884	2.982537724	0.002858694	0.058462503	stoml3b	ZDB-GENE-050417-366	stoml3b	
ENSDARG00000101595	2.53706522	-5.988946286	2.01012716	-2.97938678	0.002888259	0.059010177	tgm1l2	ZDB-GENE-110408-37	tgm1l2	
ENSDARG00000098348	8.489928027	-1.514873819	0.508610779	-2.978454021	0.002897065	0.059083395	znf326	ZDB-GENE-070424-227	znf326	
ENSDARG00000044980	68.39432323	-0.373955643	0.125555192	-2.978416411	0.00289742	0.059083395	kpna6	ZDB-GENE-130530-626	kpna6	
ENSDARG00000099154	238.1617568	0.4321477	0.145138258	2.977489926	0.002906192	0.059205278	CABZ01032488.1			
ENSDARG00000098822	107.8873642	-0.309929719	0.104110969	-2.976917057	0.002911628	0.059259035	tcerg1a	ZDB-GENE-030131-1791	tcerg1a	
ENSDARG00000027590	231.1196455	0.368362688	0.123837614	2.974562231	0.002934069	0.059610054	sept2	ZDB-GENE-030131-911	sept2	
ENSDARG00000020107	275.5785965	-0.388120171	0.130488792	-2.97435639	0.002936039	0.059610054	usp2a	ZDB-GENE-041212-59	usp2a	
ENSDARG00000053956	379.0469917	0.37546499	0.12623969	2.974223004	0.002937315	0.059610054	sptbn2	ZDB-GENE-030131-787	sptbn2	
ENSDARG00000086685	94.94352214	-0.467098658	0.157147787	-2.972352754	0.002955269	0.059813751	trim63b	ZDB-GENE-040426-1003	trim63b	
ENSDARG00000018077	0.63824011	-3.71084625	1.248524204	-2.972186071	0.002956874	0.059813751	rbp1	ZDB-GENE-050421-2	rbp1	
ENSDARG00000052625	258.8735672	0.415747701	0.139889331	2.97197575	0.002958901	0.059813751	fkbp1b	ZDB-GENE-040426-1785	fkbp1b	
ENSDARG00000079611	29.60677064	0.545259317	0.183478896	2.971782196	0.002960766	0.059813751	sema4c	ZDB-GENE-080303-16	sema4c	
ENSDARG00000056141	226.4510902	-0.326539532	0.109882725	-2.971709437	0.002961468	0.059813751	coq10b	ZDB-GENE-050417-263	coq10b	
ENSDARG00000104530	159.6028252	0.331500312	0.111584771	2.970838313	0.002969881	0.05992654	znf609b	ZDB-GENE-030131-5095	znf609b	
ENSDARG00000091699	282.4703114	0.331484048	0.111688353	2.967937486	0.002998053	0.060388938	capn2a	ZDB-GENE-050320-69	capn2a	
ENSDARG00000098312	494.8305341	0.422927434	0.142500955	2.967891933	0.002998497	0.060388938	scarb2a	ZDB-GENE-020419-29	scarb2a	
ENSDARG00000092483	2.351378775	-1.703699315	0.574195202	-2.967108241	0.003006151	0.060485587	iqcc	ZDB-GENE-090313-325	iqcc	
ENSDARG00000018542	4.385820049	-1.396670243	0.47081137	-2.966517656	0.003011931	0.060505993	hapln4	ZDB-GENE-060503-243	hapln4	
ENSDARG00000098837	13.72558487	-1.767438634	0.595815157	-2.966421067	0.003012877	0.060505993	tgm5l	ZDB-GENE-110411-176	tgm5l	
ENSDARG00000044899	46.00432885	0.571183611	0.192613178	2.965444099	0.003022463	0.06064102	tmem183a	ZDB-GENE-050327-5	tmem183a	
ENSDARG00000012341	48.25166645	-0.68446929	0.230942777	-2.963804713	0.003038611	0.060907324	capn9	ZDB-GENE-010724-2	capn9	
ENSDARG00000025953	61.11954701	0.390869214	0.131963309	2.961953718	0.003056937	0.061216759	rhoq	ZDB-GENE-030131-5721	rhoq	
ENSDARG00000079372	130.215316	-0.422530476	0.142761398	-2.959696964	0.003079418	0.061608712	si:ch211-264f5.6	ZDB-GENE-081104-208	si:ch211-264f5.6	
ENSDARG00000044751	184.183746	0.609705222	0.206040516	2.959152074	0.003084868	0.061659532	ddt	ZDB-GENE-040625-160	ddt	
ENSDARG00000068064	105.1351267	-0.499148601	0.168702822	-2.958744824	0.003088948	0.061682879	sirt1	ZDB-GENE-070801-2	sirt1	
ENSDARG00000056744	19728.72787	0.692695392	0.234179887	2.957962795	0.003096795	0.061781352	ela2	ZDB-GENE-041117-1	ela2	
ENSDARG00000062109	15.70596915	-0.7762782	0.262463259	-2.957664261	0.003099795	0.061783035	shdb	ZDB-GENE-030131-6059	shdb	
ENSDARG00000088087	692.080737	-0.362077956	0.122513773	-2.955406139	0.003122577	0.062178607	kdm6ba	ZDB-GENE-091005-1	kdm6ba	
ENSDARG00000098105	23.36278017	-0.557001131	0.188565615	-2.953884943	0.00313801	0.062427242	tmem106c	ZDB-GENE-061013-562	tmem106c	
ENSDARG00000089967	15.58612377	-0.900605772	0.305132496	-2.951523627	0.003162104	0.062847549	si:ch211-59o9.10	ZDB-GENE-101206-1	si:ch211-59o9.10	
ENSDARG00000053896	2.793701099	-1.799486549	0.610153958	-2.94923359	0.003185631	0.063231	slc30a1b	ZDB-GENE-070424-43	slc30a1b	
ENSDARG00000061081	116.0475529	-0.598159935	0.20283034	-2.949065392	0.003187365	0.063231	arpp21	ZDB-GENE-081104-296	arpp21	
ENSDARG00000098103	134.5789462	-0.460503026	0.156225993	-2.947672254	0.003201763	0.06338729	tefb	ZDB-GENE-050522-224	tefb	
ENSDARG00000091211	2687.150625	0.467999953	0.158777095	2.94752812	0.003203256	0.06338729	adh8a	ZDB-GENE-030529-3	adh8a	
ENSDARG00000061660	43.69829957	-0.63891035	0.216768243	-2.947435205	0.003204219	0.06338729	CABZ01055347.1			

ENSDARG0000007737	52.61798126	-0.431652297	0.146535589	-2.945716456	0.003222076	0.06362934	zyg11	ZDB-GENE-041014-17	zyg11	
ENSDARG00000099743	21.30227632	-0.539566704	0.183172237	-2.945679507	0.003222461	0.06362934	zgc:113019	ZDB-GENE-050417-449	zgc:113019	
ENSDARG00000071601	332.2894301	0.698099418	0.237079284	2.944582114	0.003233911	0.063746808	pvalb9	ZDB-GENE-030805-4	pvalb9	
ENSDARG00000016868	45.6142404	-0.646951242	0.219712704	-2.944532701	0.003234428	0.063746808	rhobtb4	ZDB-GENE-060315-11	rhobtb4	
ENSDARG00000076891	92.56515605	-0.374436143	0.127189675	-2.943919339	0.003240845	0.063813915	rfxap	ZDB-GENE-091204-321	rfxap	
ENSDARG00000103542	47.5600161	0.602456021	0.204667436	2.943585128	0.003244346	0.063823543	vegfaa	ZDB-GENE-990415-273	vegfaa	
ENSDARG00000020596	56.79634056	-0.397042174	0.134970618	-2.94169338	0.00326423	0.064155132	miga1	ZDB-GENE-041010-193	miga1	
ENSDARG00000097613	37.21749671	-1.154646193	0.392812717	-2.939431805	0.003288146	0.064565295	igfn1.3	ZDB-GENE-131122-44	igfn1.3	
ENSDARG00000036171	222.8250503	-0.714112399	0.243196551	-2.936359073	0.003320897	0.065147999	rnasel3	ZDB-GENE-050809-5	rnasel3	
ENSDARG00000101312	84.34190224	0.459876333	0.156680381	2.935123908	0.003334145	0.065296704	si:dkey-31n13.4	ZDB-GENE-071008-3	si:dkey-31n13.4	
ENSDARG00000077245	28.32391893	0.764696099	0.26053691	2.935077792	0.003334641	0.065296704	si:dkey-225n22.4	ZDB-GENE-120709-30	si:dkey-225n22.4	
ENSDARG00000099999	198.204042	0.24949739	0.085016959	2.934677895	0.003338941	0.065320538	tcf3b	ZDB-GENE-051113-64	tcf3b	
ENSDARG00000026500	18.10558618	-0.842102759	0.287140457	-2.932720693	0.00336006	0.065673059	xkr9	ZDB-GENE-060421-6224	xkr9	
ENSDARG00000025275	3.293616513	-1.750086518	0.597234449	-2.930317432	0.003386159	0.06610713	gbgt111	ZDB-GENE-040426-1117	gbgt111	
ENSDARG00000101715	10.67613268	-1.201067013	0.409906233	-2.930101856	0.003388509	0.06610713	arsg	ZDB-GENE-060503-154	arsg	
ENSDARG00000019304	4.787111318	-1.206287137	0.411888094	-2.928676877	0.003404081	0.066349828	phactr3b	ZDB-GENE-050522-156	phactr3b	
ENSDARG00000033182	83.66549514	-0.508828887	0.173796937	-2.927720689	0.003414566	0.066491471	arl4ab	ZDB-GENE-030219-167	arl4ab	
ENSDARG00000004460	15.61122614	-0.794251542	0.271312449	-2.927442309	0.003417625	0.066491471	desi2	ZDB-GENE-040801-39	desi2	
ENSDARG00000076223	604.6897622	0.399806294	0.136598364	2.926874682	0.003423868	0.066551829	SERP1	ZDB-GENE-040718-312	zgc:92744	
ENSDARG00000062968	270.1995576	0.215797515	0.073742195	2.926377686	0.003429343	0.066597155	sbf1	ZDB-GENE-040718-139	sbf1	
ENSDARG00000016391	16.12619533	-1.176592252	0.402163071	-2.925659605	0.003437268	0.066681459	calcoco1b	ZDB-GENE-031118-126	calcoco1b	
ENSDARG00000105258	6.507211748	-0.906716043	0.309944489	-2.925414309	0.003439979	0.066681459	cep72	ZDB-GENE-101115-1	cep72	
ENSDARG00000044956	1.741988917	-5.757752914	1.969074014	-2.924091667	0.00345463	0.066859045	zgc:114123	ZDB-GENE-050913-53	zgc:114123	
ENSDARG00000062788	33.96279158	2.002287416	0.684772687	2.92401764	0.003455452	0.066859045	irg1l	ZDB-GENE-061103-301	irg1l	
ENSDARG00000098874	77.37459745	-0.310833145	0.106361407	-2.922424157	0.003473182	0.067098766	exoc6b	ZDB-GENE-060929-132	exoc6b	
ENSDARG00000076848	107.3876057	0.85265514	0.2917935	2.922118344	0.003476594	0.067098766	zgc:112492	ZDB-GENE-050417-143	zgc:112492	
ENSDARG00000075833	9.04494649	-1.052096606	0.360054112	-2.922051354	0.003477342	0.067098766	lyve1a	ZDB-GENE-031118-138	lyve1a	
ENSDARG00000043009	158.7153387	-0.377605375	0.129256086	-2.921374058	0.003484911	0.067144658	fam43a	ZDB-GENE-030131-6098	fam43a	
ENSDARG00000004979	469.8508636	0.685616246	0.234707397	2.921153128	0.003487384	0.067144658	elovl5	ZDB-GENE-040407-2	elovl5	
ENSDARG00000029439	502.3878209	-0.65240939	0.223352267	-2.920988437	0.003489228	0.067144658	atp2a2a	ZDB-GENE-040426-702	atp2a2a	
ENSDARG00000105499	8.933914054	-7.378937076	2.527789452	-2.919126461	0.003510138	0.067485747	zgc:175135	ZDB-GENE-080214-1	zgc:175135	
ENSDARG00000052375	1.851318015	-2.059985067	0.705853368	-2.918432016	0.003517966	0.067574924	zgc:66455	ZDB-GENE-040426-1642	zgc:66455	
ENSDARG00000039067	1.186451922	-2.425537308	0.831295222	-2.917780885	0.00352532	0.067654847	srd5a2b	ZDB-GENE-050417-182	srd5a2b	
ENSDARG00000008310	118.5000613	-0.344365525	0.11804252	-2.917300698	0.003530752	0.067697778	ip6k2a	ZDB-GENE-030131-760	ip6k2a	
ENSDARG00000074201	1326.994354	-0.300750083	0.103185659	-2.914650028	0.003560876	0.068213636	flna	ZDB-GENE-030131-2145	flna	
ENSDARG00000059035	2149.101813	-0.379745922	0.130332835	-2.913662709	0.003572156	0.068356505	porb	ZDB-GENE-030131-5767	porb	
ENSDARG00000011000	125.0668467	-0.377979184	0.129736706	-2.913432881	0.003574787	0.068356505	gtf2a1	ZDB-GENE-030131-2694	gtf2a1	
ENSDARG00000101914	70.88059583	0.413084721	0.141853818	2.912045131	0.003590708	0.068599026	metrnla	ZDB-GENE-040426-1917	metrnla	
ENSDARG00000059369	15.02781265	-1.107487269	0.380478709	-2.910773308	0.003605355	0.068816806	si:ch1073-15f12.3	ZDB-GENE-081104-69	si:ch1073-15f12.3	
ENSDARG00000087018	3.426178208	1.627768375	0.559306546	2.910333136	0.003610437	0.068851781	FO704748.1			
ENSDARG00000019342	44.07070677	-0.477403558	0.164109231	-2.909059746	0.003625176	0.068963851	chrnd	ZDB-GENE-030131-6665	chrnd	
ENSDARG00000087446	19.50550733	-0.716626345	0.246346335	-2.909019711	0.00362564	0.068963851	mmd2a	ZDB-GENE-081104-52	mmd2a	
ENSDARG00000042332	127.0772278	1.125269664	0.386825945	2.908981882	0.003626079	0.068963851	plin2	ZDB-GENE-050913-12	plin2	
ENSDARG00000005220	87.31308343	0.341753213	0.117502283	2.908481481	0.003631887	0.069012365	pdc6	ZDB-GENE-040426-1307	pdc6	
ENSDARG00000052470	316.8740193	-0.416425721	0.143192569	-2.908151756	0.003635719	0.06902327	igfbp2a	ZDB-GENE-000125-12	igfbp2a	
ENSDARG00000074248	15.0397035	-0.730373332	0.251205361	-2.907475097	0.003643594	0.069110847	tmem237b	ZDB-GENE-040912-63	tmem237b	
ENSDARG00000103066	1.723462182	-3.109883578	1.06998648	-2.906469977	0.00365532	0.069271252	smx5	ZDB-GENE-000616-10	smx5	
ENSDARG00000103286	10.42773856	-0.90715388	0.312180353	-2.905864741	0.003662397	0.069343352	kcnk4a	ZDB-GENE-141211-80	kcnk4a	
ENSDARG00000015343	600.8938549	0.877918052	0.302222696	2.904871353	0.003674041	0.069473414	pgd	ZDB-GENE-040426-2807	pgd	

ENSDARG0000060374	14.87791747	-0.760987743	0.262004679	-2.904481502	0.003678619	0.069473414	ttl11	ZDB-GENE-061013-747	ttl11	
ENSDARG0000023814	101.2731683	0.325712192	0.112145828	2.904362984	0.003680012	0.069473414	dyrk1ab	ZDB-GENE-030131-5677	dyrk1ab	
ENSDARG0000077836	10.48042326	-0.76692241	0.264077062	-2.904161399	0.003682383	0.069473414	ttc22	ZDB-GENE-050208-292	ttc22	
ENSDARG0000041787	662.8261113	-0.43815366	0.150960968	-2.902430126	0.003702798	0.069796416	cx32.3	ZDB-GENE-030131-1337	cx32.3	
ENSDARG0000007421	253.5873755	-0.583645506	0.201128661	-2.9018515	0.003709643	0.069863303	ftcd	ZDB-GENE-030131-9643	ftcd	
ENSDARG0000011956	5.93821716	-1.155840551	0.398370433	-2.901421526	0.003714738	0.069897119	dlx4a	ZDB-GENE-980526-73	dlx4a	
ENSDARG0000105104	8.161363741	-1.300446329	0.448319322	-2.900714433	0.00372313	0.069968716	si:dkey-223p19.1	ZDB-GENE-120215-140	si:dkey-223p19.1	
ENSDARG0000005652	28.68375933	-0.524052249	0.180673742	-2.900544613	0.003725148	0.069968716	aclyb	ZDB-GENE-090909-2	aclyb	
ENSDARG00000054534	159.2820626	0.689347027	0.237699587	2.900076675	0.003730714	0.070011191	ACOT12			
ENSDARG0000004078	515.880677	0.446290935	0.153945876	2.899011963	0.003743406	0.070187208	acsl4a	ZDB-GENE-040426-1565	acsl4a	
ENSDARG00000103164	2.250020557	-1.866319698	0.643937384	-2.898293756	0.00375199	0.07028595	zgc:194948	ZDB-GENE-081022-167	zgc:194948	
ENSDARG00000079345	64.74339167	0.723556666	0.249770058	2.896891137	0.003768805	0.070485934	si:ch211-217k17.10	ZDB-GENE-030131-8827	si:ch211-217k17.10	
ENSDARG00000114405	2.622239973	1.863217404	0.64318776	2.896848355	0.003769319	0.070485934	zgc:194989	ZDB-GENE-080723-3	zgc:194989	
ENSDARG00000020718	92.36068358	0.589754247	0.203621291	2.896328989	0.003775564	0.070540446	slc25a22a	ZDB-GENE-110408-61	slc25a22a	
ENSDARG00000041294	44.08006646	0.667552006	0.230528736	2.895743142	0.003782619	0.070604985	noxo1a	ZDB-GENE-030131-9700	noxo1a	
ENSDARG00000028173	100.8387394	-0.541313406	0.1869506	-2.895489007	0.003785683	0.070604985	slc4a2a	ZDB-GENE-051101-2	slc4a2a	
ENSDARG00000071213	14.58127186	-0.722452839	0.2495762	-2.894718477	0.003794987	0.070716265	rgl3a	ZDB-GENE-101130-1	rgl3a	
ENSDARG00000052731	13.88585863	-1.068139253	0.369083002	-2.894035342	0.003803254	0.070808025	ankrd31	ZDB-GENE-050417-473	ankrd31	
ENSDARG00000056619	38.63237082	0.44038979	0.152241719	2.892701109	0.003819446	0.071047056	arhgap42a	ZDB-GENE-030131-8077	arhgap42a	
ENSDARG00000077082	51.53483641	0.558059444	0.192976518	2.891851556	0.003829789	0.071128495	agtrap	ZDB-GENE-050309-11	agtrap	
ENSDARG00000020284	19.81584992	0.673753369	0.232988341	2.891790057	0.003830538	0.071128495	si:ch211-278j3.3	ZDB-GENE-041014-147	si:ch211-278j3.3	
ENSDARG00000008255	190.5396774	-0.325082138	0.112441736	-2.891116309	0.00383876	0.071203247	cnot6a	ZDB-GENE-030131-2768	cnot6a	
ENSDARG00000017034	84.17445575	0.390115616	0.134952061	2.890771825	0.00384297	0.071203247	sqor	ZDB-GENE-050417-436	sqor	
ENSDARG00000039929	899.6387279	-0.487925028	0.168795113	-2.890634808	0.003844646	0.071203247	ckmt2b	ZDB-GENE-040426-1654	ckmt2b	
ENSDARG00000044642	501.2472026	0.811603324	0.281081824	2.887427276	0.003884064	0.071870446	sc5d	ZDB-GENE-040912-56	sc5d	
ENSDARG00000069266	71.6789942	0.576081924	0.199540244	2.887046302	0.00388877	0.071894738	esrra	ZDB-GENE-990415-68	esrra	
ENSDARG00000018600	500.2102185	0.463526186	0.160640667	2.885484695	0.003908115	0.072127767	retsat	ZDB-GENE-050320-11	retsat	
ENSDARG00000055284	47.92632675	0.442615708	0.153414359	2.885099621	0.003912898	0.072127767	afap1	ZDB-GENE-100316-6	afap1	
ENSDARG00000096888	54.86432249	-1.220465858	0.423033863	-2.885031116	0.00391375	0.072127767	serpinb14	ZDB-GENE-030131-7169	serpinb14	
ENSDARG00000005913	30.97228314	-4.479336012	1.55275501	-2.884766742	0.003917038	0.072127767	tgm1l3	ZDB-GENE-120718-1	tgm1l3	
ENSDARG00000061496	2.102834592	-1.926430834	0.66781959	-2.884657567	0.003918396	0.072127767	si:ch211-250e5.2	ZDB-GENE-030131-8384	si:ch211-250e5.2	
ENSDARG00000077301	197.3617269	-0.53707315	0.186216857	-2.884127461	0.003924999	0.072137611	mlf1	ZDB-GENE-080917-7	mlf1	
ENSDARG00000105782	5.42648226	-1.173755142	0.406988526	-2.884000576	0.00392658	0.072137611	CABZ01081777.1			
ENSDARG00000076779	475.7810483	-0.355723721	0.123352641	-2.883794925	0.003929145	0.072137611	fam13b	ZDB-GENE-030131-4913	fam13b	
ENSDARG00000009299	83.46953219	0.455222973	0.157954658	2.881985113	0.003951784	0.072479442	dusp8a	ZDB-GENE-040426-1842	dusp8a	
ENSDARG00000099124	13.66770688	-0.87415709	0.303354242	-2.881637926	0.00395614	0.072479442	f3a	ZDB-GENE-071119-5	f3a	
ENSDARG00000068973	81.95440171	0.347157411	0.120478533	2.8814877	0.003958027	0.072479442	pdlim4	ZDB-GENE-070308-5	pdlim4	
ENSDARG00000101051	901.2409986	0.682348324	0.236919343	2.880087012	0.003975654	0.072716713	ctsbb	ZDB-GENE-070323-1	ctsbb	
ENSDARG00000022410	371.5056448	-0.34007169	0.118084012	-2.879913077	0.003977848	0.072716713	rrp12	ZDB-GENE-050706-182	rrp12	
ENSDARG00000104687	28.92225509	0.808197339	0.280826512	2.877923926	0.004003017	0.073101964	slc16a9b	ZDB-GENE-040801-69	slc16a9b	
ENSDARG00000012060	22.23008281	0.66178816	0.229970989	2.877702799	0.004005823	0.073101964	thbs3b	ZDB-GENE-060503-84	thbs3b	
ENSDARG00000079175	272.8376515	0.488677887	0.169893148	2.876383736	0.004022604	0.07327899	si:ch211-79k12.1	ZDB-GENE-080303-9	si:ch211-79k12.1	
ENSDARG00000056729	1.210067166	2.87556619	0.999797648	2.876148184	0.004025607	0.07327899	her4.2	ZDB-GENE-060815-1	her4.2	
ENSDARG00000093477	8.664113432	1.472462221	0.511960407	2.876125188	0.0040259	0.07327899	CYP46A1	ZDB-GENE-051120-33	zgc:123299	
ENSDARG00000093477	8.664113432	1.472462221	0.511960407	2.876125188	0.0040259	0.07327899	CYP46A1	ZDB-GENE-050522-464	cyp46a1.1	
ENSDARG00000073961	3.342613513	-1.727752697	0.60097391	-2.874921304	0.004041282	0.073495832	si:ch211-160j14.2	ZDB-GENE-091118-113	si:ch211-160j14.2	
ENSDARG00000076563	167.7019534	0.501527771	0.174526215	2.873652944	0.004057546	0.073728319	rarrres3l	ZDB-GENE-040718-368	rarrres3l	
ENSDARG00000087187	5.23822879	-1.453332208	0.506026061	-2.872050117	0.004078183	0.07398428	grip2a	ZDB-GENE-081104-132	grip2a	
ENSDARG00000023040	39.89850328	0.417659007	0.145423607	2.872016548	0.004078616	0.07398428	zbtb1	ZDB-GENE-041001-126	zbtb1	

ENSDARG0000004697	70.89527645	-0.696245918	0.242657789	-2.869250232	0.004114461	0.074570655	rxrgb	ZDB-GENE-040718-34	rxrgb	
ENSDARG00000045064	472.8096663	-0.344408727	0.120158195	-2.866294107	0.004153082	0.075206283	ablim1b	ZDB-GENE-050327-91	ablim1b	
ENSDARG00000057062	13.13337323	0.765754475	0.267188059	2.865975669	0.004157262	0.075217685	si:dkey-157g16.6	ZDB-GENE-090313-189	si:dkey-157g16.6	
ENSDARG00000056259	401.4234317	-0.27813297	0.097073114	-2.865190569	0.004167584	0.075295656	tmem131	ZDB-GENE-130530-662	tmem131	
ENSDARG00000071586	574.1112917	0.357152205	0.124671398	2.864748542	0.004173405	0.075295656	tgfbi	ZDB-GENE-030131-73	tgfbi	
ENSDARG00000071495	55.68858541	0.836449233	0.2920043	2.86450998	0.00417655	0.075295656	sult3st5	ZDB-GENE-060503-722	sult3st5	
ENSDARG00000010925	15.00629811	0.765556524	0.267258189	2.864482948	0.004176906	0.075295656	HTRA3			
ENSDARG00000056767	58.53739491	-0.442804445	0.154594382	-2.864298421	0.004179341	0.075295656	itgb3a	ZDB-GENE-071207-1	itgb3a	
ENSDARG00000103176	1.985226834	-1.966005637	0.686607276	-2.863362661	0.004191705	0.075454249	nr5a1a	ZDB-GENE-010504-1	nr5a1a	
ENSDARG00000051836	40.0007376	-0.542413676	0.189503742	-2.862284769	0.004205988	0.07564709	si:dkeyp-19e1.3	ZDB-GENE-081104-56	si:dkeyp-19e1.3	
ENSDARG00000068503	17.9541891	-0.776299715	0.271505726	-2.859238828	0.004246589	0.076312544	gbgt1l4	ZDB-GENE-031204-4	gbgt1l4	
ENSDARG00000087369	15.01237492	-0.641648932	0.224435241	-2.858949106	0.00425047	0.076317544	cep162	ZDB-GENE-100922-266	cep162	
ENSDARG00000044062	70.48897487	0.370092057	0.129467591	2.858569122	0.004255564	0.076344311	ctbp2a	ZDB-GENE-010130-2	ctbp2a	
ENSDARG00000020000	35.05787431	0.502352055	0.175768581	2.858031015	0.004262787	0.076382221	sh3bp4a	ZDB-GENE-040303-3	sh3bp4a	
ENSDARG00000078620	18.10954553	0.915769878	0.320437376	2.857874726	0.004264887	0.076382221	si:dkey-156m2.3	ZDB-GENE-121213-8	si:dkey-156m2.3	
ENSDARG00000076533	103.9223739	0.365657383	0.127959705	2.857597882	0.00426861	0.076384317	nfe2l1b	ZDB-GENE-120319-2	nfe2l1b	
ENSDARG00000090980	18.48450656	-0.827111913	0.289483435	-2.85719946	0.004273972	0.076415728	apof	ZDB-GENE-031204-36	apof	
ENSDARG00000028048	27.28951367	0.491941094	0.172210593	2.856625053	0.004281713	0.07648959	rdh8a	ZDB-GENE-021115-3	rdh8a	
ENSDARG00000020645	132.314852	-0.559560174	0.195954487	-2.855561942	0.004296074	0.076681486	slc7a3a	ZDB-GENE-041114-206	slc7a3a	
ENSDARG00000020953	62.13856971	-0.437880769	0.15343566	-2.853839638	0.004319433	0.077033522	dnajb6b	ZDB-GENE-040426-1122	dnajb6b	
ENSDARG00000012078	217.6691294	0.227687435	0.079798468	2.853280795	0.004327037	0.077078773	meis1b	ZDB-GENE-020122-1	meis1b	
ENSDARG00000055591	76.68943826	0.644033024	0.225729497	2.853118591	0.004329246	0.077078773	pipox	ZDB-GENE-110627-2	pipox	
ENSDARG00000103364	1085.705287	-0.22673239	0.07947848	-2.852751952	0.004334244	0.077102959	cs	ZDB-GENE-030131-1058	cs	
ENSDARG00000002071	124.890102	-0.43155626	0.151316615	-2.852008418	0.004344395	0.077218706	adss	ZDB-GENE-050417-337	adss	
ENSDARG00000094392	32.88691462	-5.999009696	2.104760076	-2.850210703	0.004369028	0.077496514	si:dkey-229d11.5	ZDB-GENE-030131-5342	si:dkey-229d11.5	
ENSDARG00000023185	32.30890158	-0.479138168	0.168140937	-2.849622331	0.004377117	0.077496514	si:rp71-1g18.13	ZDB-GENE-040724-111	si:rp71-1g18.13	
ENSDARG00000086739	11.972776	-2.466428812	0.865552469	-2.849542805	0.004378211	0.077496514	si:ch1073-513e17.1	ZDB-GENE-030131-7188	si:ch1073-513e17.1	
ENSDARG00000026634	135.721499	0.342249691	0.120109944	2.849470076	0.004379213	0.077496514	ehmt1b	ZDB-GENE-080515-3	ehmt1b	
ENSDARG00000022614	2.649331386	-2.679169315	0.940256668	-2.849402091	0.004380149	0.077496514	ddx43	ZDB-GENE-080204-77	ddx43	
ENSDARG00000016483	165.8811691	0.4181942	0.146772415	2.849269739	0.004381971	0.077496514	baiap2l2a	ZDB-GENE-040108-10	baiap2l2a	
ENSDARG00000096859	3.645522002	-1.650543443	0.579510695	-2.848167357	0.004397179	0.077638765	si:ch211-286b4.4	ZDB-GENE-131127-605	si:ch211-286b4.4	
ENSDARG00000019208	9.701048629	-1.063836154	0.373517584	-2.84815548	0.004397344	0.077638765	camsap1a	ZDB-GENE-060518-4	camsap1a	
ENSDARG00000036628	344.1066414	0.43831976	0.153926549	2.847590388	0.004405158	0.077711198	cd74b	ZDB-GENE-990910-10	cd74b	
ENSDARG00000030006	31.81025172	-0.528547499	0.185632277	-2.847282306	0.004409424	0.077722519	slc6a7	ZDB-GENE-070112-1492	slc6a7	
ENSDARG00000030125	19.57491713	0.772505628	0.271407455	2.846294801	0.004423123	0.077841342	sox7	ZDB-GENE-040109-4	sox7	
ENSDARG00000044034	16.52428533	-0.768732888	0.270084632	-2.846266679	0.004423513	0.077841342	tmem86a	ZDB-GENE-050320-81	tmem86a	
ENSDARG00000022183	78.93101766	0.601796008	0.211472816	2.845736959	0.004430878	0.077905852	gsto1	ZDB-GENE-040718-365	gsto1	
ENSDARG00000039974	67.51163537	0.35892635	0.126139374	2.845474331	0.004434533	0.077905852	rai14	ZDB-GENE-040718-235	rai14	
ENSDARG00000092033	40.82827238	-0.786902052	0.276688801	-2.84399675	0.00445515	0.078203205	si:dkey-239h2.3	ZDB-GENE-081104-383	si:dkey-239h2.3	
ENSDARG00000096990	20.92223229	0.887918408	0.312343561	2.842762004	0.004472445	0.078386943	si:ch1073-340i21.2	ZDB-GENE-131121-430	si:ch1073-340i21.2	
ENSDARG00000075405	48.94724774	0.547651598	0.192650474	2.842721261	0.004473017	0.078386943	adck5	ZDB-GENE-081104-149	adck5	
ENSDARG00000093844	4462.054517	-0.946335052	0.332967494	-2.842124443	0.0044814	0.078468936	zgc:136461	ZDB-GENE-060519-7	zgc:136461	
ENSDARG00000089717	33.43646641	-0.651195357	0.229151743	-2.841764807	0.004486458	0.078492631	qpct	ZDB-GENE-130827-1	qpct	
ENSDARG00000044457	6.073340542	1.178661846	0.414913929	2.840738195	0.004500925	0.078504538	gfi1ab	ZDB-GENE-040116-8	gfi1ab	
ENSDARG00000097019	27.74100244	0.747512233	0.26315689	2.840557332	0.004503478	0.078504538	dhrs13b	ZDB-GENE-040801-253	dhrs13b	
ENSDARG00000087193	23.74465503	-0.676293482	0.238094201	-2.840444993	0.004505064	0.078504538	prrg2	ZDB-GENE-130625-1	prrg2	
ENSDARG00000027495	1.052962738	-2.926742661	1.030409189	-2.840369334	0.004506133	0.078504538	elovl4b	ZDB-GENE-030131-7672	elovl4b	
ENSDARG00000040380	98.20078475	0.311739387	0.109761168	2.840160985	0.004509077	0.078504538	arhgef1a	ZDB-GENE-030722-5	arhgef1a	
ENSDARG00000071223	46.20858825	-1.494342396	0.526177184	-2.839998467	0.004511375	0.078504538	zgc:158445	ZDB-GENE-061215-78	zgc:158445	

ENSDARG00000100136	17.32899584	-0.661432614	0.232908792	-2.839878261	0.004513075	0.078504538	dcp1a	ZDB-GENE-030723-5	dcp1a	
ENSDARG0000024844	278.4427977	-0.205946801	0.072612724	-2.836235717	0.004564874	0.079296783	max	ZDB-GENE-990415-152	max	
ENSDARG00000104210	62.20191045	0.408147982	0.143909187	2.836149586	0.004566105	0.079296783	si:ch73-173h19.3	ZDB-GENE-081104-245	si:ch73-173h19.3	
ENSDARG0000002330	1.292463966	-3.655969249	1.289484763	-2.835217099	0.004579455	0.07946349	lhx8a	ZDB-GENE-031008-2	lhx8a	
ENSDARG00000030632	143.3243705	0.336196211	0.118650046	2.833510998	0.004603972	0.079823537	ccdc3b	ZDB-GENE-050522-184	ccdc3b	
ENSDARG00000101613	47.30131021	-0.536885785	0.189522825	-2.832829158	0.004613804	0.079928585	si:dkey-238i5.2	ZDB-GENE-030131-9718	si:dkey-238i5.2	
ENSDARG00000098162	302.8257617	0.529949226	0.187137027	2.831877989	0.00462755	0.080101232	zgc:77748	ZDB-GENE-040426-1864	zgc:77748	
ENSDARG00000018566	182.6244641	-0.783224705	0.276649603	-2.831107283	0.004638716	0.080134234	flnca	ZDB-GENE-070503-1	flnca	
ENSDARG00000055240	483.6388588	-0.435709499	0.153925546	-2.83065099	0.004645338	0.080134234	xdh	ZDB-GENE-070719-9	xdh	
ENSDARG00000069834	5.102893783	-1.182026221	0.417608483	-2.830465064	0.004648039	0.080134234	pnpla4	ZDB-GENE-070410-74	pnpla4	
ENSDARG00000006639	37.6608341	-0.497361564	0.175728103	-2.830290403	0.004650577	0.080134234	lnpk	ZDB-GENE-030131-9455	lnpk	
ENSDARG00000095453	8.638203809	1.093678242	0.386431754	2.830197649	0.004651926	0.080134234	si:rp71-17i16.6	ZDB-GENE-090313-410	si:rp71-17i16.6	
ENSDARG00000100731	174.0861903	-0.504901308	0.178398871	-2.8301822	0.00465215	0.080134234	zgc:101540	ZDB-GENE-041212-67	zgc:101540	
ENSDARG00000001950	1128.068685	-0.391523928	0.138364915	-2.829647437	0.004659932	0.080203076	ak1	ZDB-GENE-040822-37	ak1	
ENSDARG00000044485	3.821111697	-1.980374341	0.700067353	-2.828834015	0.004671792	0.080341933	sall4	ZDB-GENE-060328-2	sall4	
ENSDARG00000002831	5.34075412	-1.69993775	0.601259231	-2.827295886	0.004694293	0.080663413	col4a4	ZDB-GENE-101001-1	col4a4	
ENSDARG00000098622	13.0291191	-0.867965304	0.307048396	-2.826802927	0.004701525	0.080722216	ccne1	ZDB-GENE-980526-168	ccne1	
ENSDARG00000088967	68.72253742	-0.527288025	0.186617632	-2.825499496	0.004720696	0.080895724	wnk4b	ZDB-GENE-131120-119	wnk4b	
ENSDARG00000074623	11.74353669	-0.878048503	0.310773563	-2.825364217	0.00472269	0.080895724	tbc1d31	ZDB-GENE-061218-4	tbc1d31	
ENSDARG00000056324	32.56019212	0.776629569	0.274880293	2.825337392	0.004723085	0.080895724	zgc:123295	ZDB-GENE-051127-11	zgc:123295	
ENSDARG00000024101	13.0996225	-0.711603982	0.251903003	-2.824912663	0.004729351	0.0809376	adra1d	ZDB-GENE-090312-203	adra1d	
ENSDARG00000077237	87.34234328	-0.544944212	0.192982548	-2.823800473	0.004745792	0.081051897	rfx7a	ZDB-GENE-100309-3	rfx7a	
ENSDARG00000103308	472.9915856	-0.4805245	0.170172266	-2.823753309	0.00474649	0.081051897	mst1	ZDB-GENE-020806-3	mst1	
ENSDARG00000005454	60.60589329	-0.679874852	0.240775765	-2.823684737	0.004747506	0.081051897	tacc3	ZDB-GENE-050522-327	tacc3	
ENSDARG00000038030	51.66691324	0.549498223	0.194625395	2.823363435	0.004752267	0.081067854	rbx1	ZDB-GENE-041008-106	rbx1	
ENSDARG00000076856	31.64781698	-0.55100044	0.195224603	-2.82239242	0.004766681	0.081248329	frem2a	ZDB-GENE-081119-3	frem2a	
ENSDARG00000088411	42.64807464	-0.899598225	0.318810897	-2.821729854	0.004776539	0.081286957	notum2	ZDB-GENE-120215-77	notum2	
ENSDARG00000012141	116.4024987	-0.369729834	0.131029747	-2.821724402	0.004776621	0.081286957	papolg	ZDB-GENE-040426-1256	papolg	
ENSDARG00000006497	833.329331	0.381962464	0.135386638	2.82127151	0.00478337	0.081336484	rtn1a	ZDB-GENE-030131-2426	rtn1a	
ENSDARG00000033009	956.4998148	0.262318282	0.093002942	2.820537463	0.004794328	0.081440098	h3f3b.1	ZDB-GENE-050417-65	h3f3b.1	
ENSDARG00000033009	956.4998148	0.262318282	0.093002942	2.820537463	0.004794328	0.081440098	h3f3b.1	ZDB-GENE-030131-8175	h3f3c	
ENSDARG00000099819	616.3743753	-0.49350252	0.174986732	-2.820228226	0.00479895	0.081440098	sb:cb1058	ZDB-GENE-040108-9	sb:cb1058	
ENSDARG00000058574	44.42284094	-0.384136399	0.136222681	-2.819915125	0.004803635	0.081440098	abcg2c	ZDB-GENE-050517-37	abcg2c	
ENSDARG00000116806	229.9759762	-0.529721136	0.187855384	-2.819834729	0.004804839	0.081440098	CU693479.1			
ENSDARG00000020212	109.5438186	0.644947918	0.228755427	2.819377568	0.004811688	0.081490999	slc1a1	ZDB-GENE-040718-414	slc1a1	
ENSDARG00000077691	52.78013706	-0.933503016	0.331421097	-2.816667448	0.004852474	0.082079423	slc13a5a	ZDB-GENE-030131-4628	slc13a5a	
ENSDARG00000018069	35.59143277	0.782592437	0.277861264	2.816486279	0.004855212	0.082079423	rdh12	ZDB-GENE-040718-9	rdh12	
ENSDARG00000067670	27.04629096	-0.557355121	0.197944404	-2.815715472	0.004866875	0.082079423	pomt1	ZDB-GENE-060929-966	pomt1	
ENSDARG00000021287	91.35240783	0.359347498	0.127629767	2.815546145	0.00486944	0.082079423	rab7b	ZDB-GENE-180906-1	rab7b	
ENSDARG00000056378	578.9699757	0.536503254	0.190550519	2.815543392	0.004869482	0.082079423	ifi30	ZDB-GENE-030131-8447	ifi30	
ENSDARG00000090844	23.68318271	0.552407543	0.196200158	2.815530565	0.004869676	0.082079423	CABZ01054965.1			
ENSDARG00000079618	22.00599595	0.664803539	0.236171138	2.814922872	0.004878894	0.08216942	sik2a	ZDB-GENE-070705-451	sik2a	
ENSDARG00000040338	63.0407475	-0.395541944	0.140559391	-2.814055617	0.004892076	0.08232599	hvcn1	ZDB-GENE-040718-36	hvcn1	
ENSDARG00000074030	10.02388987	-1.08517228	0.385694384	-2.813554785	0.004899704	0.082388905	myt1a	ZDB-GENE-030131-3885	myt1a	
ENSDARG00000054937	43.74539169	-0.44348233	0.157704232	-2.812114315	0.004921701	0.082639478	badb	ZDB-GENE-000616-1	badb	
ENSDARG00000057241	56.33101744	0.572218012	0.203486533	2.812068217	0.004922406	0.082639478	tnfsf10	ZDB-GENE-040718-335	tnfsf10	
ENSDARG00000027199	98.74804521	0.385434012	0.137107185	2.811187548	0.004935901	0.082735064	smad1	ZDB-GENE-991119-8	smad1	
ENSDARG00000027249	1532.794341	-0.521056841	0.185351189	-2.811186942	0.00493591	0.082735064	btg1	ZDB-GENE-010726-1	btg1	
ENSDARG00000071469	45.68979982	0.451217443	0.160557776	2.810311988	0.00494935	0.08289476	znf618	ZDB-GENE-030131-2063	znf618	

ENSDARG0000026616	3.193567572	-1.505051217	0.535754429	-2.80921843	0.004966194	0.083111178	zgc:113425	ZDB-GENE-050320-128	zgc:113425	
ENSDARG00000101351	6.910721477	-1.021615038	0.364209414	-2.805020953	0.005031331	0.084040402	si:dkey-16p6.1	ZDB-GENE-081103-43	si:dkey-16p6.1	
ENSDARG00000076833	50.35683483	-1.326645183	0.472970811	-2.80491978	0.00503291	0.084040402	atp1b1b	ZDB-GENE-001127-4	atp1b1b	
ENSDARG00000013025	46.26711413	-0.501851668	0.178921259	-2.80487445	0.005033618	0.084040402	ints6	ZDB-GENE-070906-1	ints6	
ENSDARG00000036592	30.73426092	-0.590685837	0.210635831	-2.804298937	0.005042613	0.084080254	setd4	ZDB-GENE-050808-2	setd4	
ENSDARG00000056725	305.5644085	0.450818362	0.160768948	2.804138279	0.005045126	0.084080254	hmg3a	ZDB-GENE-050428-1	hmg3a	
ENSDARG00000018688	77.22128069	0.351539048	0.12537233	2.803960388	0.005047911	0.084080254	elk3	ZDB-GENE-030716-2	elk3	
ENSDARG00000056151	136.8035178	0.457247179	0.163113827	2.803239837	0.005059203	0.08420215	tyrp1b	ZDB-GENE-040718-249	tyrp1b	
ENSDARG00000058372	2.97943568	-1.722747819	0.614658113	-2.802774068	0.005066515	0.084212075	mcph1	ZDB-GENE-060421-6122	mcph1	
ENSDARG00000010610	21.54003487	-0.656560039	0.234265985	-2.802626416	0.005068835	0.084212075	sarm1	ZDB-GENE-040219-1	sarm1	
ENSDARG00000076118	40.66290858	-0.447364116	0.159633639	-2.802442629	0.005071724	0.084212075	cdip1	ZDB-GENE-070720-18	cdip1	
ENSDARG00000011299	68.54012037	-0.400586812	0.143035469	-2.800611731	0.005100585	0.084624971	blzf1	ZDB-GENE-010724-1	blzf1	
ENSDARG00000041734	8.016349782	-0.873827412	0.312071545	-2.800086798	0.005108887	0.084696097	tbc1d32	ZDB-GENE-061106-5	tbc1d32	
ENSDARG00000076765	28.13756448	0.595291024	0.212616435	2.799835415	0.005112867	0.084696097	ddhd2	ZDB-GENE-080519-4	ddhd2	
ENSDARG00000102800	3.895100575	1.379903561	0.493048615	2.798717043	0.005130608	0.08492358	CABZ01081752.2			
ENSDARG00000070396	2.595237549	1.628164051	0.581917648	2.797928635	0.005143147	0.085064688	serpinb1l2	ZDB-GENE-041001-117	serpinb1l2	
ENSDARG00000016830	176.9492973	0.363103055	0.129905056	2.795141817	0.005187695	0.085611552	rimkla	ZDB-GENE-040912-20	rimkla	
ENSDARG00000014208	2.041348788	-4.369469227	1.563293827	-2.795040288	0.005189325	0.085611552	zgc:55413	ZDB-GENE-040426-2909	zgc:55413	
ENSDARG00000099776	551.4279428	-0.61678061	0.220691581	-2.794762753	0.005193782	0.085611552	glula	ZDB-GENE-030131-688	glula	
ENSDARG00000078760	3.931888195	-1.691174211	0.605127712	-2.794739322	0.005194158	0.085611552	cacna2d3	ZDB-GENE-030616-133	cacna2d3	
ENSDARG00000033251	115.7876308	-0.351016297	0.125605255	-2.794598826	0.005196416	0.085611552	osbp3a	ZDB-GENE-040912-77	osbp3a	
ENSDARG00000086740	692.5823999	0.364221108	0.130408569	2.792923114	0.005223411	0.085989433	phyh	ZDB-GENE-050417-361	phyh	
ENSDARG00000099399	88.84030764	2.035061633	0.728832989	2.792219432	0.005234784	0.086109764	thrsp	ZDB-GENE-081022-19	thrsp	
ENSDARG00000070427	76.01228961	0.56729838	0.203204241	2.791764466	0.00524215	0.086164027	s100v1	ZDB-GENE-080407-1	s100v1	
ENSDARG00000099226	127.4200917	0.308864827	0.110653829	2.791271024	0.005250149	0.086186086	CABZ01076667.1			
ENSDARG00000058270	78.46068305	0.565503014	0.202603572	2.791179879	0.005251628	0.086186086	COLGALT1 (1 of many)	ZDB-GENE-070424-114	si:ch211-114 13.7	
ENSDARG00000104538	209.6148713	-0.468799292	0.168006881	-2.790357689	0.005264984	0.086338403	tmem184a	ZDB-GENE-040426-2925	tmem184a	
ENSDARG00000105063	5.77796398	1.498545079	0.537194645	2.78957561	0.005277717	0.086437483	si:ch211-64i20.3	ZDB-GENE-110913-55	si:ch211-64i20.3	
ENSDARG00000040944	40.08330755	-0.77713627	0.278619027	-2.789243351	0.005283135	0.086437483	ntd5	ZDB-GENE-031030-7	ntd5	
ENSDARG00000026166	218.6320375	0.300613932	0.107776466	2.789235374	0.005283265	0.086437483	emilin1b	ZDB-GENE-060818-36	emilin1b	
ENSDARG00000022650	160.7872232	0.337036701	0.120933458	2.786959923	0.005320506	0.086979597	cyp2ad3	ZDB-GENE-041001-156	cyp2ad3	
ENSDARG00000097203	1.863124573	-1.956861086	0.702294103	-2.786384051	0.005329968	0.086998149	si:ch211-176l24.4	ZDB-GENE-131126-55	si:ch211-176l24.4	
ENSDARG00000059931	13.82413088	0.790560448	0.283753913	2.786077699	0.005335008	0.086998149	hyal2a	ZDB-GENE-131121-41	hyal2a	
ENSDARG00000005218	17.24360455	-0.64673558	0.232137687	-2.785999931	0.005336288	0.086998149	wrnip1	ZDB-GENE-040426-2415	wrnip1	
ENSDARG00000077419	30.77329665	-0.58680072	0.210651589	-2.785645832	0.00534212	0.086998149	nectin4a	ZDB-GENE-160728-55	nectin4a	
ENSDARG00000075687	39.34045166	-0.552289602	0.198262899	-2.78564272	0.005342172	0.086998149	anapc1	ZDB-GENE-081107-12	anapc1	
ENSDARG00000070430	2.245068794	-1.64359514	0.590136375	-2.785110714	0.005350945	0.087074093	chtopb	ZDB-GENE-061013-712	chtopb	
ENSDARG00000038802	3.691470878	-1.444551714	0.518737691	-2.784744081	0.005356999	0.087105701	cenpl	ZDB-GENE-040930-6	cenpl	
ENSDARG00000036493	17.02698201	-0.696176324	0.25002512	-2.784425511	0.005362264	0.087124447	si:ch73-174h16.4	ZDB-GENE-160728-69	si:ch73-174h16.4	
ENSDARG00000053625	406.0298	0.503822729	0.181043017	2.782889599	0.005387714	0.087470872	anxa2b	ZDB-GENE-030131-1089	anxa2b	
ENSDARG00000029039	3.671651556	-1.466474852	0.527257908	-2.781323578	0.005413775	0.087814114	zdhhc23a	ZDB-GENE-060526-38	zdhhc23a	
ENSDARG00000042213	6.538810301	-1.368047253	0.491964888	-2.780782299	0.005422809	0.087814114	si:ch211-233h19.2	ZDB-GENE-061009-14	si:ch211-233h19.2	
ENSDARG00000059887	44.48171248	-0.407268008	0.146459083	-2.78076307	0.00542313	0.087814114	eral1	ZDB-GENE-060526-84	eral1	
ENSDARG00000094346	6.337669371	2.620898415	0.942575483	2.780571384	0.005426333	0.087814114	si:ch211-114l13.3	ZDB-GENE-070424-112	si:ch211-114l13.3	
ENSDARG00000069038	3.835907259	-1.558633374	0.560583424	-2.780377205	0.005429579	0.087814114	si:ch211-242e8.1	ZDB-GENE-060503-600	si:ch211-242e8.1	
ENSDARG00000007906	392.8569227	-1.518427363	0.54628442	-2.779554581	0.00544335	0.087903762	lrp2b	ZDB-GENE-111115-1	lrp2b	
ENSDARG00000078041	162.1256787	0.40911126	0.147186125	2.779550445	0.00544342	0.087903762	xpo1a	ZDB-GENE-050309-201	xpo1a	
ENSDARG00000035821	172.5370994	-0.357806995	0.128771829	-2.778612346	0.005459163	0.088090853	si:ch211-173p18.3	ZDB-GENE-060503-672	si:ch211-173p18.3	
ENSDARG00000101289	256.8881077	-0.26740505	0.096272834	-2.777575344	0.005476614	0.088305193	slc29a1a	ZDB-GENE-050913-138	slc29a1a	

ENSDARG0000005891	180.675021	0.352122058	0.126821945	2.776507312	0.00549464	0.088528468	cyb5r3	ZDB-GENE-030131-3281	cyb5r3	
ENSDARG0000005759	275.007359	0.499981076	0.180186047	2.774804615	0.005523488	0.088925639	efhd2	ZDB-GENE-060531-152	efhd2	
ENSDARG00000092919	1.14857605	-4.192280405	1.511037203	-2.774438905	0.005529702	0.088958082	zp3c	ZDB-GENE-060817-5	zp3c	
ENSDARG00000102267	24.43088993	-0.702245751	0.253230763	-2.773145503	0.005551729	0.089244678	znf750	ZDB-GENE-050417-313	znf750	
ENSDARG00000071583	5.001501557	-5.46333711	1.970799119	-2.772143064	0.005568856	0.089452117	gtf3ab	ZDB-GENE-030131-7698	gtf3ab	
ENSDARG00000042285	3.935638248	-1.609910009	0.580883332	-2.771485974	0.005580108	0.089512372	atp8b3	ZDB-GENE-050208-424	atp8b3	
ENSDARG00000100952	634.3897454	-0.645371536	0.232865846	-2.771430618	0.005581056	0.089512372	wu:fj16a03	ZDB-GENE-030131-7415	wu:fj16a03	
ENSDARG00000040245	708.0464015	-0.330672251	0.119365305	-2.770254315	0.005601254	0.089768356	kpnb3	ZDB-GENE-030424-2	kpnb3	
ENSDARG00000020187	142.5742076	0.422741402	0.152646468	2.769414902	0.005615707	0.089931964	GCA	ZDB-GENE-040930-3	zgc:92027	
ENSDARG00000043182	23.29443898	-0.736107739	0.265850259	-2.768881024	0.005624917	0.09001142	hhla2a.1	ZDB-GENE-050327-45	hhla2a.1	
ENSDARG00000035715	431.238656	0.253754768	0.091709421	2.766943296	0.00565846	0.090479837	marcksl1b	ZDB-GENE-040426-2315	marcksl1b	
ENSDARG00000105584	20.62256959	-0.559240265	0.202162228	-2.766293977	0.00566974	0.090552943	slc8b1	ZDB-GENE-130530-900	slc8b1	
ENSDARG00000042539	477.3103328	0.282016659	0.101959878	2.76595719	0.005675599	0.090552943	ywhaqa	ZDB-GENE-040122-5	ywhaqa	
ENSDARG00000058494	160.144847	-0.309212494	0.111792812	-2.765942537	0.005675854	0.090552943	dnaja3a	ZDB-GENE-030131-7837	dnaja3a	
ENSDARG00000071325	9.939856602	-0.91263194	0.330144913	-2.764337428	0.005703852	0.090931164	cbarpb	ZDB-GENE-050208-507	cbarpb	
ENSDARG00000074287	263.2366438	0.339892264	0.12301181	2.763086431	0.00572576	0.09120458	sptlc2b	ZDB-GENE-080305-8	sptlc2b	
ENSDARG00000053101	119.6685119	0.368596039	0.133410711	2.762866916	0.005729612	0.09120458	prpf38b	ZDB-GENE-040426-2878	prpf38b	
ENSDARG00000103480	5.668931228	2.23950788	0.811131055	2.760969224	0.005763011	0.091630539	BX640512.3			
ENSDARG00000100818	2.301606057	-1.959546689	0.709760738	-2.760855291	0.005765021	0.091630539	si:ch73-97h19.2	ZDB-GENE-120214-33	si:ch73-97h19.2	
ENSDARG00000032272	16.59558397	-0.694342677	0.251646773	-2.759195629	0.005794384	0.09202819	sat1b	ZDB-GENE-041001-39	sat1b	
ENSDARG00000039830	92.77577582	0.285364063	0.103491417	2.757369358	0.005826849	0.092474497	gng5	ZDB-GENE-030131-9966	gng5	
ENSDARG00000007485	59.09642708	-0.367614783	0.133333409	-2.757109303	0.005831485	0.09247718	epc2	ZDB-GENE-040426-802	epc2	
ENSDARG00000005210	106.8652939	0.429502968	0.155793675	2.756870386	0.005835748	0.09247718	coro2a	ZDB-GENE-030131-2258	coro2a	
ENSDARG00000027916	64.33863714	-0.366658436	0.133033863	-2.756128605	0.005848999	0.092578404	fntb	ZDB-GENE-030131-2220	fntb	
ENSDARG00000071727	11.8033103	-4.87162888	1.767629495	-2.756023755	0.005850875	0.092578404	si:dkey-37o8.1	ZDB-GENE-030131-5667	si:dkey-37o8.1	
ENSDARG00000061936	9.47124116	-0.814273268	0.295486461	-2.755704156	0.005856594	0.092599748	fbxo10	ZDB-GENE-090313-270	fbxo10	
ENSDARG00000116680	219.2478818	-0.310043854	0.112529134	-2.75523184	0.005865056	0.092664386	zgc:56235	ZDB-GENE-040426-954	zgc:56235	
ENSDARG00000037852	63.65621078	-0.447729756	0.162551128	-2.754393416	0.005880104	0.092832907	zgc:101663	ZDB-GENE-041114-149	zgc:101663	
ENSDARG00000105214	95.15185195	-0.367194043	0.133374948	-2.753096042	0.005903457	0.093132207	agtpbp1	ZDB-GENE-081104-267	agtpbp1	
ENSDARG00000052923	30.12429813	0.586221616	0.213042586	2.751664002	0.005929332	0.093470805	zgc:113162	ZDB-GENE-050522-530	zgc:113162	
ENSDARG00000100480	23.0757554	-0.698087005	0.253736364	-2.751229638	0.005937201	0.093525257	si:ch73-364h19.2	ZDB-GENE-131119-21	si:ch73-364h19.2	
ENSDARG00000075048	205.5960192	0.546549014	0.198816757	2.749008797	0.005977578	0.094091344	lonrf1	ZDB-GENE-101021-4	lonrf1	
ENSDARG00000103952	4.256763655	1.343022425	0.488711298	2.748089578	0.005994363	0.0942855	CABZ01054391.1			
ENSDARG00000045444	73.01851394	0.519554362	0.189103767	2.747456436	0.006005949	0.094397652	fzd8a	ZDB-GENE-000328-3	fzd8a	
ENSDARG00000096628	3.976574695	-7.04956523	2.566630836	-2.746622198	0.006021245	0.094567916	buc2l	ZDB-GENE-030131-6407	buc2l	
ENSDARG00000105287	1340.051307	-0.436549635	0.159027115	-2.745127047	0.006048748	0.094929493	mpp1	ZDB-GENE-031113-4	mpp1	
ENSDARG00000018165	8.359379315	-1.140499864	0.415520822	-2.744747805	0.006055742	0.094968909	depdc1a	ZDB-GENE-030131-9827	depdc1a	
ENSDARG00000079317	113.5453212	0.308812866	0.11253655	2.744111724	0.006067488	0.095080246	d1c1	ZDB-GENE-130206-12	d1c1	
ENSDARG00000101181	47.7050235	-0.505105591	0.18408459	-2.74387765	0.006071816	0.095080246	s100w	ZDB-GENE-080407-2	s100w	
ENSDARG00000071014	258.2465069	0.400767921	0.146108964	2.742938616	0.006089207	0.095282144	s100u	ZDB-GENE-030131-3121	s100u	
ENSDARG00000110991	56.7862377	-0.568365741	0.207243719	-2.742499232	0.006097359	0.095295802	ZNF276	ZDB-GENE-070209-176	zgc:158366	
ENSDARG00000037739	29.55971053	-0.725068285	0.264397841	-2.742338143	0.006100351	0.095295802	zgc:112980	ZDB-GENE-050306-1	zgc:112980	
ENSDARG00000063417	161.2157444	0.271638949	0.099060042	2.74216469	0.006103573	0.095295802	erf	ZDB-GENE-010724-17	erf	
ENSDARG00000098645	387.3541342	0.51990702	0.189640558	2.741539178	0.006115207	0.095310414	rgn	ZDB-GENE-040718-68	rgn	
ENSDARG00000002021	270.6293331	0.347171201	0.126636777	2.741472187	0.006116454	0.095310414	pygb	ZDB-GENE-040928-2	pygb	
ENSDARG00000016415	293.6350571	0.404011285	0.14737467	2.741388907	0.006118005	0.095310414	dhtkd1	ZDB-GENE-041212-44	dhtkd1	
ENSDARG00000078576	48.22834812	0.371712921	0.135616165	2.740918985	0.006126761	0.095376701	setd5	ZDB-GENE-080523-1	setd5	
ENSDARG00000055885	60.28801908	-0.409493798	0.149476696	-2.739515987	0.006152972	0.095671554	tex10	ZDB-GENE-040426-2827	tex10	
ENSDARG00000055642	34.63474836	-0.602368035	0.219888739	-2.73942193	0.006154733	0.095671554	si:ch211-217a12.1	ZDB-GENE-121214-95	si:ch211-217a12.1	

ENSDARG00000097063	4.476086725	1.260704944	0.460956277	2.734977277	0.006238458	0.096869847	sparcl2	ZDB-GENE-131127-575	sparcl2	
ENSDARG00000008931	60.62611411	0.759334666	0.277651811	2.734844993	0.006240966	0.096869847	renbp	ZDB-GENE-041212-34	renbp	
ENSDARG00000087752	11.46825498	-1.007530277	0.368479345	-2.734292414	0.00625145	0.096893282	rfwd3	ZDB-GENE-120529-1	rfwd3	
ENSDARG00000101900	174.2101223	-0.27401967	0.100216267	-2.734283351	0.006251622	0.096893282	xrn2	ZDB-GENE-040426-2874	xrn2	
ENSDARG00000027065	395.9033516	-0.539191658	0.197264746	-2.733340193	0.006269554	0.097100175	slc38a3a	ZDB-GENE-070615-25	slc38a3a	
ENSDARG00000039196	55.44620125	-0.5960605	0.218096442	-2.733013406	0.006275778	0.097125569	greb1l	ZDB-GENE-030131-4022	greb1l	
ENSDARG00000102434	4.392897082	1.373174599	0.502586049	2.732217901	0.006290952	0.097289342	si:dkey-13m1.2	ZDB-GENE-141216-261	si:dkey-13m1.2	
ENSDARG00000094730	229.9947599	0.731702957	0.267840336	2.731862449	0.006297743	0.097323323	acbd7	ZDB-GENE-050913-108	acbd7	
ENSDARG00000031588	291.2902907	-0.956478182	0.350186543	-2.731339056	0.006307754	0.097369413	si:dkey-239b22.1	ZDB-GENE-131119-12	si:dkey-239b22.1	
ENSDARG00000042892	60.86646545	-0.352210492	0.128956915	-2.731226098	0.006309917	0.097369413	paip1	ZDB-GENE-040801-247	paip1	
ENSDARG00000078335	111.5529491	0.30995518	0.113551933	2.729633676	0.006340474	0.097769736	amot	ZDB-GENE-030131-7487	amot	
ENSDARG00000017675	101.2170067	-0.421670259	0.154553533	-2.72831201	0.006365936	0.098034524	utp4	ZDB-GENE-040426-2466	utp4	
ENSDARG00000023712	1438.471554	0.397259972	0.145609167	2.728262096	0.0063669	0.098034524	mao	ZDB-GENE-040329-3	mao	
ENSDARG00000040027	53.30393154	0.537829635	0.19715076	2.728011979	0.006371729	0.098037641	osbpl10b	ZDB-GENE-081002-4	osbpl10b	
ENSDARG00000074726	23.60118233	-0.629728319	0.230917359	-2.727072237	0.006389905	0.098245946	nrde2	ZDB-GENE-111117-3	nrde2	
ENSDARG00000052386	62.65481021	0.397455263	0.145829954	2.725470677	0.006420988	0.098632634	cldnd1b	ZDB-GENE-040808-4	cldnd1b	
ENSDARG00000012387	694.982175	-0.210280841	0.077163011	-2.725150817	0.006427212	0.098632634	pdha1a	ZDB-GENE-040426-2719	pdha1a	
ENSDARG00000100774	9.302072214	-0.858558829	0.315083944	-2.724857436	0.006432926	0.098632634	cmc4	ZDB-GENE-120216-1	cmc4	
ENSDARG00000079124	17.19459906	-0.636226323	0.233493066	-2.724818911	0.006433676	0.098632634	MTERF4	ZDB-GENE-070912-693	si:dkeyp-94h10.5	
ENSDARG00000003632	37.52909558	0.511751118	0.187946078	2.722861381	0.006471921	0.099147204	zgc:172270	ZDB-GENE-080204-67	zgc:172270	
ENSDARG00000094899	2.439894937	-1.634826885	0.60047532	-2.722554669	0.006477931	0.099158554	si:ch1073-143l10.2	ZDB-GENE-030131-863	si:ch1073-143l10.2	
ENSDARG00000098663	16.1497657	-3.35031884	1.23067337	-2.722346093	0.006482022	0.099158554	fgf19	ZDB-GENE-030729-32	fgf19	
ENSDARG00000024167	3.749712147	1.338327114	0.491748155	2.721570181	0.006497259	0.099319929	kcnh1a	ZDB-GENE-061226-1	kcnh1a	
ENSDARG00000011602	65.55455422	-0.53932181	0.19825502	-2.72034378	0.006521408	0.099611242	si:dkeyp-117h8.2	ZDB-GENE-041210-321	si:dkeyp-117h8.2	
ENSDARG00000045003	156.0830985	-0.324864617	0.11944646	-2.719750913	0.006533111	0.099611242	plvapb	ZDB-GENE-060616-96	plvapb	
ENSDARG00000030781	114.9625527	-0.350288964	0.128798559	-2.719665241	0.006534804	0.099611242	acads	ZDB-GENE-040808-64	acads	
ENSDARG00000060297	90.13826665	0.412046181	0.15150711	2.719649134	0.006535122	0.099611242	arhgap35b	ZDB-GENE-060526-44	arhgap35b	
ENSDARG00000094324	255.8217469	0.343780587	0.12643098	2.719116692	0.006545651	0.099644488	efemp2a	ZDB-GENE-041212-8	efemp2a	
ENSDARG00000100729	716.2620034	0.193398183	0.071126769	2.719063231	0.006546709	0.099644488	tln1	ZDB-GENE-031002-48	tln1	
ENSDARG00000011615	133.8644845	-0.562003298	0.206727904	-2.718565259	0.006556572	0.099722966	mybpc3	ZDB-GENE-070112-2362	mybpc3	
ENSDARG00000058471	46.34395225	-0.790461985	0.290865151	-2.717623556	0.00657526	0.099935462	plk1	ZDB-GENE-021115-7	plk1	
ENSDARG00000105479	23.4411577	-0.735873938	0.270804167	-2.717365641	0.006580387	0.099941686	si:ch211-126c2.4	ZDB-GENE-030131-3087	si:ch211-126c2.4	
ENSDARG00000029671	91.18725426	-0.317963565	0.117027098	-2.717008023	0.006587501	0.099969678	xpr1b	ZDB-GENE-060503-266	xpr1b	
ENSDARG00000057737	70.70295445	0.399035767	0.146877188	2.716798798	0.006591667	0.099969678	rxraa	ZDB-GENE-070314-2	rxraa	