

Supplemental Table S1: List of 172 significantly enriched genes which match behavior

ACCESSION	SYMBOL	pv (KO S vs. WT S)	pv (KO C vs. WT C)	pv (WT C vs. WT S)	pv (KO C vs. KOS)	log2 (KO S vs. WT S)	log2 (KO C vs. WT C)	log2 (WT C vs. WT S)	log2 (KO C vs. KOS)
NM_172447	A330021E22Rik	0.4269	0.0008	0.6665	0.0440	0.3761	1.0317	0.1596	0.5251
	1500035N22Rik	0.7830	0.0035	0.5596	0.0386	0.1169	0.9859	-0.2633	0.6093
XM_358312	ErbB2ip	0.7376	0.0325	0.3833	0.0487	-0.0991	0.8141	-0.3494	0.7049
NM_172447	A330021E22Rik	0.8348	0.0262	0.8327	0.0321	0.0766	0.8046	0.0830	0.6852
NM_011332	Ccl17	0.5531	0.0023	0.3146	0.0131	-0.2447	0.7717	-0.3711	0.7636
NM_016903	Esd	0.5046	0.0175	0.1332	0.0463	-0.1531	0.7391	-0.4849	0.3499
NM_026853	Asb11	0.9074	0.0286	0.7461	0.0313	-0.0260	0.7271	-0.1047	0.5628
NM_172568	4933417C16Rik	0.3274	0.0114	0.6807	0.0047	0.1631	0.7151	-0.1021	0.5569
NM_026865	1700113122Rik	0.6967	0.0066	0.7765	0.0138	-0.1565	0.7072	-0.0698	0.6445
NM_173442	Gcnt1	0.1924	0.0263	0.1864	0.0444	-0.2825	0.6931	-0.3765	0.3779
NM_025415	Cks2	0.7442	0.0032	0.3789	0.0321	-0.0688	0.6782	-0.2088	0.5050
NM_183136	C630041L24Rik	0.1554	0.0314	0.4425	0.0101	-0.8954	0.6459	-0.3268	1.3939
XM_149022	9630037P07Rik	0.5927	0.0037	0.0610	0.0374	-0.1111	0.6400	-0.3708	0.4290
NM_177057	E230015B07Rik	0.7220	0.0351	0.4475	0.0159	0.0848	0.5953	-0.2245	0.4910
NM_013531	Gnb4	0.5562	0.0149	0.2241	0.0361	-0.2234	0.5657	-0.5181	0.4104
NM_009678	Ap1m2	0.1798	0.0062	0.4877	0.0431	0.2010	0.5643	-0.1061	0.4373
NM_007710	Ckm	0.2098	0.0196	0.3175	0.0095	-0.2884	0.5596	-0.1989	0.8019
AK020747	A430024H01Rik	0.1745	0.0129	0.0902	0.0274	-0.3778	0.5461	-0.4902	0.4202
NM_016845	Acrbp	0.0574	0.0030	0.0459	0.0106	-0.2412	0.5167	-0.2494	0.3891
NM_019500	Cldn14	0.0678	0.0049	0.0109	0.0287	-0.2945	0.5146	-0.5508	0.4145
NM_201611	H2-M10.6	0.8889	0.0015	0.2798	0.0152	-0.0239	0.5099	-0.1860	0.4155
NM_172156	Plig	0.2381	0.0093	0.0211	0.0078	-0.3635	0.5097	-0.5004	0.6130
XM_484024	Rapgef6	0.7236	0.0001	0.3810	0.0181	0.0663	0.5087	-0.1349	0.3503
NM_010642	Klk21	0.2102	0.0113	0.9437	0.0117	-0.2752	0.5037	-0.0134	0.7539
NM_177841	4932418E24Rik	0.0129	0.0223	0.0210	0.0048	-0.6501	0.5036	-0.6018	0.6694
NM_145210	Oas1e	0.1156	0.0037	0.0382	0.0041	-0.3482	0.4988	-0.2984	0.6770
NM_026186	1300013D05Rik	0.3539	0.0212	0.3791	0.0057	-0.1114	0.4900	-0.1710	0.4494
AK077886	Aqr	0.0240	0.0268	0.1395	0.0008	-0.3223	0.4874	-0.2208	0.7530
AK050695	D030005B14Rik	0.1610	0.0203	0.1799	0.0199	-0.4423	0.4846	-0.3219	0.6265
NM_009342	Tctex1	0.5590	0.0084	0.8056	0.0395	0.0721	0.4608	0.0433	0.4549
AK021174	Suv39h1	0.4934	0.0488	0.2056	0.0105	-0.0980	0.4564	-0.1537	0.5945
NM_007677	Psg17	0.1320	0.0313	0.2912	0.0231	-0.2382	0.4507	-0.1485	0.5317
NM_025945	Polr3d	0.9384	0.0132	0.0707	0.0455	-0.0104	0.4495	-0.2460	0.3735
NM_007400	Adam12	0.0224	0.0029	0.0040	0.0347	-0.4400	0.4471	-0.4506	0.3518
NM_138657	Socs7	0.3593	0.0077	0.1388	0.0118	0.1527	0.4464	0.1663	0.5331
NM_026670	Zmym1	0.6699	0.0083	0.6161	0.0002	-0.0856	0.4420	-0.0844	0.5589
XM_132372	2210403N09Rik	0.3552	0.0157	0.4483	0.0126	-0.3200	0.4359	-0.1602	0.6803
XM_357940	LOC384920	0.3870	0.0169	0.1721	0.0433	-0.1470	0.4334	-0.2644	0.4576
NM_146681	Olfir1424	0.2680	0.0226	0.1174	0.0363	-0.2613	0.4307	-0.3161	0.4825
NM_029322	1700024B05Rik	0.7734	0.0125	0.3836	0.0050	-0.0484	0.4200	-0.1190	0.4411
NM_146568	Olfir1012	0.2821	0.0347	0.5035	0.0088	-0.2450	0.4178	-0.1536	0.6310
NM_176970	C230008H04Rik	0.3855	0.0087	0.1540	0.0164	0.1837	0.4130	0.2383	0.4905
NM_021374	Rgs20	0.0307	0.0280	0.5708	0.0150	0.5657	0.4123	-0.1377	-0.4021
NM_009755	Bmp1	0.4219	0.0089	0.4437	0.0120	-0.1523	0.4101	-0.1328	0.3984
NM_007408	Adfp	0.0261	0.0191	0.4246	0.0051	0.6176	0.4099	-0.2088	-0.3071
	4933428C19Rik	0.4050	0.0019	0.2427	0.0064	-0.1640	0.4079	-0.1919	0.4757
AK015790	Mscp-pending	0.7176	0.0062	0.8313	0.0172	-0.0612	0.3987	-0.0291	0.4671
AK051985	D230030L22Rik	0.0093	0.0077	0.0229	0.0041	-0.2203	0.3949	-0.3039	0.2975
	A130001G05Rik	0.0270	0.0259	0.9449	0.0297	0.5436	0.3928	-0.0137	-0.3573

NM_008943	Psen1	0.3861	0.0082	0.9712	0.0263	0.1181	0.3897	-0.0050	0.3332
NM_025875	Rbm8	0.0610	0.0222	0.0439	0.0490	-0.2400	0.3815	-0.2478	0.3333
NM_139225	Defb10	0.0588	0.0479	0.1423	0.0136	-0.4100	0.3796	-0.2484	0.5970
XM_284961	LOC328083	0.1577	0.0027	0.4251	0.0049	-0.1973	0.3789	-0.1160	0.4894
NM_153597	Tpt1h	0.4020	0.0231	0.2991	0.0010	-0.0905	0.3780	-0.1877	0.3294
NM_198608	Aarsl	0.5715	0.0054	0.2642	0.0419	-0.0902	0.3770	-0.1653	0.2866
	1700120J03Rik	0.6617	0.0491	0.6691	0.0126	-0.0653	0.3770	-0.1118	0.3252
AK079067	9330131P21Rik	0.1182	0.0497	0.7701	0.0317	-0.5530	0.3756	-0.0648	0.7249
	AW536289	0.3068	0.0247	0.6014	0.0073	-0.1823	0.3717	-0.0975	0.5189
XM_146948	Unc13c	0.2777	0.0021	0.0483	0.0076	0.2102	0.3646	-0.3605	-0.3400
NM_023529	Ms4a10	0.3290	0.0099	0.9845	0.0100	-0.2271	0.3639	-0.0039	0.5232
NM_028060	Slc35f2	0.7749	0.0062	0.6146	0.0258	0.0434	0.3589	-0.0598	0.3599
XM_358034	LOC385074	0.7552	0.0171	0.2495	0.0363	-0.0615	0.3588	-0.2177	0.3592
NM_153196	Rbks	0.5340	0.0442	0.6643	0.0184	-0.1619	0.3521	-0.1334	0.3553
AK048680	NK1R	0.6977	0.0273	0.7815	0.0146	-0.1444	0.3487	-0.1033	0.3898
NM_177722	6030422M02Rik	0.3410	0.0222	0.5030	0.0040	-0.1308	0.3441	-0.1148	0.4024
AK032977	Wnt5a	0.3788	0.0059	0.3820	0.0242	-0.0715	0.3410	-0.1009	0.2663
NM_007424	Agc1	0.6413	0.0045	0.8906	0.0039	-0.0979	0.3341	0.0332	0.4986
AK085407	D630022O22Rik	0.5803	0.0308	0.8073	0.0013	-0.0638	0.3340	0.0461	0.5617
	B130064M09Rik	0.1483	0.0367	0.0414	0.0460	-0.2660	0.3322	-0.3612	0.3242
NM_133678	2410004C24Rik	0.8404	0.0410	0.5744	0.0198	-0.0333	0.3305	-0.1187	0.3206
	2610035F20Rik	0.3868	0.0274	0.0210	0.0260	-0.1396	0.3273	-0.1883	0.4435
		0.4491	0.0296	0.1611	0.0281	-0.1118	0.3249	-0.1167	0.4306
XM_139937	LOC224763	0.9220	0.0321	0.7514	0.0133	0.0098	0.3246	-0.0450	0.3170
NM_146735	Olfra483	0.3215	0.0145	0.1807	0.0416	-0.2287	0.3235	-0.2459	0.3933
	5830407F19Rik	0.5644	0.0428	0.6846	0.0380	0.1119	0.3214	-0.0833	0.2771
NM_177826	Thada	0.2290	0.0037	0.0074	0.0283	-0.2213	0.3205	-0.3643	0.2903
		0.3169	0.0305	0.0602	0.0294	-0.1429	0.3205	-0.2642	0.3021
XM_358502	LOC381087	0.1036	0.0110	0.7830	0.0047	-0.1862	0.3167	-0.0400	0.4641
NM_148922	Mdm1	0.1334	0.0391	0.4719	0.0432	-0.3826	0.3154	-0.1684	0.5748
NM_172421	Asxl2	0.3360	0.0354	0.0033	0.0091	0.1844	0.3019	-0.5960	-0.4670
AK015350	4930440M09Rik	0.6561	0.0081	0.9044	0.0003	-0.0746	0.3012	0.0232	0.3777
NM_178917	Arrdc3	0.4214	0.0333	0.9124	0.0256	-0.2223	0.3005	-0.0289	0.4248
	9430006E15Rik	0.4309	0.0237	0.1103	0.0305	0.1143	0.2954	0.2306	0.4052
AK031015	5830492D08Rik	0.6163	0.0053	0.2095	0.0494	-0.0849	0.2939	-0.1613	0.3006
NM_145157	Defb19	0.4205	0.0108	0.4847	0.0395	-0.1449	0.2933	-0.1272	0.3500
NM_030711	Arts1	0.7400	0.0093	0.0912	0.0162	-0.0617	0.2888	-0.2351	0.2758
		0.7994	0.0311	0.8767	0.0257	-0.0402	0.2874	-0.0192	0.3794
	A630074N13Rik	0.9871	0.0236	0.6879	0.0194	0.0022	0.2852	-0.0659	0.3760
		0.8954	0.0182	0.8159	0.0401	0.0190	0.2849	0.0336	0.2699
NM_021296	Grpel2	0.6057	0.0309	0.2168	0.0355	0.1035	0.2812	0.2433	0.2690
NM_009246	Serpina1d	0.0110	0.0301	0.0699	0.0071	-0.4040	0.2812	-0.3178	0.4135
XM_355772	LOC381774	0.1101	0.0335	0.9735	0.0137	-0.2243	0.2788	-0.0047	0.5286
NM_007569	Btg1	0.0619	0.0401	0.0600	0.0122	-0.4020	0.2718	-0.3444	0.4019
XM_355372	LOC381410	0.4558	0.0233	0.3916	0.0246	-0.1464	0.2717	-0.1819	0.3074
BC053001	Arpp21	0.7857	0.0039	0.2931	0.0458	-0.0604	0.2676	0.1605	0.3905
NM_008092	Gata4	0.5072	0.0152	0.6596	0.0125	0.1194	-0.2667	-0.0612	-0.4958
NM_172743	Plekha7	0.1126	0.0413	0.1232	0.0091	0.4862	-0.2679	0.3737	-0.6108
NM_145391	LOC213233	0.0088	0.0354	0.1251	0.0037	0.2595	-0.2687	0.2590	-0.2893
XM_358981	LOC385877	0.5052	0.0231	0.8959	0.0485	0.0974	-0.2701	-0.0214	-0.3406

XM_136373	4930413P14Rik	0.1747	0.0040	0.1984	0.0097	0.2337	-0.2803	0.2128	-0.3632
AK002832	Gus-s	0.0709	0.0031	0.1131	0.0058	0.1714	-0.2891	0.2023	-0.2919
	4930519D14Rik	0.4071	0.0268	0.1806	0.0278	0.1204	-0.2903	0.1597	-0.2752
NM_172290	Hnt	0.0361	0.0113	0.0972	0.0313	0.3180	-0.3048	0.2452	-0.3377
XM_355318	LOC381353	0.8559	0.0464	0.5549	0.0088	0.0345	-0.3176	-0.0918	-0.4582
XM_141845	LOC245472	0.0635	0.0135	0.1046	0.0175	0.1419	-0.3176	0.1726	-0.3215
	4930520M14Rik	0.0925	0.0233	0.0809	0.0133	-0.2894	-0.3199	-0.3929	-0.3755
XM_141933	LOC236891	0.2844	0.0302	0.1561	0.0461	0.1388	-0.3230	0.1560	-0.3278
AK017287	5430409I18Rik	0.1430	0.0265	0.1737	0.0164	0.2888	-0.3272	0.2603	-0.3919
XM_125946	4633402N23Rik	0.0458	0.0175	0.0039	0.0082	0.4398	-0.3289	0.5337	-0.4387
NM_007923	Elk4	0.7674	0.0127	0.8608	0.0161	-0.0462	-0.3329	0.0298	-0.3372
AK087141	lqgap1	0.4886	0.0329	0.2376	0.0335	0.1509	-0.3394	0.1978	-0.3638
NM_021515	Ak1	0.3310	0.0368	0.9111	0.0053	0.1746	-0.3407	0.0213	-0.5165
XM_195728	4833427B12Rik	0.4176	0.0411	0.3628	0.0137	0.0860	-0.3505	0.1136	-0.3467
AK032664	6530405K15Rik	0.8205	0.0447	0.7584	0.0359	0.0239	-0.3537	0.0639	-0.3565
		0.4277	0.0224	0.5925	0.0084	0.1518	-0.3636	0.0888	-0.5095
NM_010389	H2-Ob	0.4033	0.0054	0.7019	0.0010	0.2032	-0.3651	0.0888	-0.5579
NM_134237	V1rh12	0.0713	0.0177	0.1022	0.0382	0.3697	-0.3684	0.3126	-0.4294
XM_356818	LOC383043	0.9288	0.0242	0.6264	0.0431	-0.0098	-0.3711	0.0778	-0.2879
AK012654	Hbb-bh1	0.0440	0.0489	0.0113	0.0185	0.3492	-0.3737	0.5264	-0.2945
AK051814	D230004K06Rik	0.4302	0.0259	0.1610	0.0477	0.1622	-0.3761	0.1436	-0.5086
	5530401N12Rik	0.3054	0.0189	0.6642	0.0163	0.1522	-0.3768	-0.0603	-0.5318
AK045507	Ppp1r1c	0.6043	0.0160	0.3735	0.0490	0.0980	-0.3782	0.1287	-0.3944
S81451	NFI-X3	0.7344	0.0024	0.1853	0.0166	0.0420	-0.3826	0.1629	-0.2635
NM_181587	6530404N21Rik	0.1727	0.0081	0.4619	0.0405	-0.2159	-0.3894	-0.1757	-0.3680
NM_080843	Socs4	0.6355	0.0140	0.2550	0.0413	0.0765	-0.3915	0.1941	-0.3833
NM_010508	lfnar1	0.7671	0.0293	0.6204	0.0371	-0.0512	-0.4000	-0.0841	-0.4653
NM_177044	9330119M13Rik	0.1159	0.0085	0.5753	0.0024	0.1870	-0.4054	0.0563	-0.5595
XM_125511	4930444G20Rik	0.5511	0.0185	0.3556	0.0322	0.0673	-0.4125	0.1363	-0.3236
NM_030711	Arts1	0.0653	0.0087	0.0144	0.0373	0.2984	-0.4161	0.3988	-0.4435
NM_030220	Sp2	0.5762	0.0393	0.6637	0.0334	0.1396	-0.4200	0.1272	-0.3266
NM_027924	Pdgfd	0.8197	0.0389	0.6421	0.0309	-0.0805	-0.4235	0.1503	-0.4034
NM_130454	Recql5	0.4301	0.0021	0.1573	0.0232	0.1878	-0.4239	0.3375	-0.4308
	A230059L01Rik	0.2670	0.0162	0.3055	0.0018	0.2184	-0.4249	0.1901	-0.5506
NM_025284	Tmsb10	0.3041	0.0397	0.0966	0.0192	0.2519	-0.4311	0.3668	-0.5198
XM_125885	LOC216223	0.1972	0.0151	0.2492	0.0047	0.1896	-0.4335	0.2429	-0.3167
NM_012017	Zfp346	0.0069	0.0314	0.0278	0.0085	0.6829	-0.4390	0.6255	-0.6732
	Nespas	0.6531	0.0221	0.7098	0.0385	0.1337	-0.4473	0.1132	-0.4092
		0.0820	0.0282	0.5761	0.0124	0.2376	-0.4557	0.0916	-0.5626
AK016438		0.7460	0.0075	0.2207	0.0288	0.0634	-0.4559	0.1763	-0.3851
NM_146065	Atf7	0.6786	0.0019	0.5435	0.0051	-0.0946	-0.4638	-0.1926	-0.6134
NM_026268	Dusp6	0.8684	0.0444	0.5545	0.0238	0.0454	-0.4688	0.1880	-0.4022
NM_009332	Tcf3	0.6949	0.0297	0.7083	0.0327	0.0985	-0.4724	-0.0705	-0.6649
AK086583	D930038O18Rik	0.4334	0.0187	0.1586	0.0351	0.2246	-0.4725	0.3550	-0.4375
AK086668	D930044O18Rik	0.3244	0.0240	0.3004	0.0033	0.2545	-0.4741	0.3236	-0.5502
NM_030239	Abcg3	0.7150	0.0290	0.4024	0.0237	0.0636	-0.4751	0.2095	-0.3888
NM_178767	A530016O06Rik	0.4323	0.0365	0.3661	0.0499	0.1522	-0.4778	0.2500	-0.3249
NM_011827	Hcst	0.2252	0.0011	0.1281	0.0029	0.1899	-0.4824	0.2673	-0.4111
AK013515	Man1b	0.0382	0.0456	0.0859	0.0310	0.4051	-0.4920	0.3862	-0.6169
	5830401L18Rik	0.4894	0.0064	0.8660	0.0422	-0.1544	-0.4944	0.0332	-0.3919

NM_025475	2410007P03Rik	0.3609	0.0022	0.4173	0.0063	0.2436	-0.4978	0.2106	-0.6431
NM_030253	BC003281	0.0389	0.0335	0.6844	0.0070	0.3081	-0.5021	-0.0594	-0.7972
	2900084C01Rik	0.2026	0.0178	0.1840	0.0211	-0.3208	-0.5023	-0.2983	-0.5292
NM_009192	Sla	0.0500	0.0267	0.1208	0.0283	0.3274	-0.5074	0.3881	-0.4032
AK020115	6720426B09Rik	0.6850	0.0470	0.8412	0.0002	-0.0559	-0.5078	0.0484	-0.3945
	9530086O07Rik	0.1011	0.0008	0.0306	0.0098	0.2853	-0.5136	0.3617	-0.3994
XM_147132	Kbtbd5	0.0214	0.0290	0.0226	0.0447	0.8733	-0.5182	0.5807	-0.6611
NM_025831	1300014I06Rik	0.8499	0.0005	0.8888	0.0107	0.0418	-0.5182	-0.0393	-0.5903
XM_145814	LOC233614	0.0154	0.0058	0.0522	0.0184	0.3701	-0.5320	0.2943	-0.5034
	A130090K04Rik	0.1986	0.0153	0.1410	0.0140	0.2447	-0.5557	0.3750	-0.5204
AK038489	A230020C19Rik	0.2373	0.0442	0.0394	0.0344	0.2275	-0.5595	0.5762	-0.4507
AK035763	9630002F18Rik	0.3119	0.0467	0.2736	0.0357	0.2231	-0.5613	0.3256	-0.5103
NM_182808	C630007B19Rik	0.0983	0.0476	0.4553	0.0349	0.4499	-0.5938	0.3257	-0.6319
NM_080437	Celsr3	0.0121	0.0246	0.0107	0.0382	0.4860	-0.6061	0.6709	-0.4304
XM_131741	9430088F20	0.0063	0.0050	0.0063	0.0411	0.5413	-0.6117	0.5981	-0.5684
NM_007752	Cp	0.1341	0.0059	0.1666	0.0273	0.1594	-0.6276	0.3435	-0.4764
XM_357047	LOC383428	0.7570	0.0205	0.8432	0.0440	-0.0498	-0.6419	-0.0395	-0.5745
NM_010410	Hcrt	0.0293	0.0438	0.2250	0.0285	-0.8282	-0.6457	0.3282	0.4203
NM_011161	Mapk11	0.2284	0.0217	0.1895	0.0156	0.4079	-0.6602	0.4827	-0.6623
NM_173404	Bmp3	0.6363	0.0405	0.6639	0.0026	0.0861	-0.7398	0.1915	-0.5474
NM_021704	Cxcl12	0.6599	0.0036	0.4182	0.0217	-0.1321	-0.7688	0.2651	-0.4985
NM_030725	Syt13	0.1371	0.0048	0.0472	0.0410	0.2885	-0.7769	0.5306	-0.6077
NM_007745	Cort	0.4213	0.0047	0.1174	0.0419	0.3062	-1.2657	0.6845	-0.9583

Supplemental Table S2:
KO Cocaine vs. WT Cocaine significantly regulated genes

ACCESSION	SYMBOL	p-value	log2
NM_013637	Prm1	0.0000	7.4497
		0.0000	5.7280
AK036131	9630038C08Rik	0.0000	3.5683
		0.0000	3.5452
NM_198013	Cuedc1	0.0000	2.2180
	D130054E02Rik	0.0051	1.2176
AK080730	A930024F09Rik	0.0001	1.1369
NM_172447	A330021E22Rik	0.0008	1.0317
NM_007863	Mpp3	0.0000	1.0103
	1500035N22Rik	0.0035	0.9859
NM_021437	1700123O20Rik	0.0340	0.9163
NM_175237	6430701C03Rik	0.0052	0.9031
NM_007863	Mpp3	0.0000	0.8638
AK047558	B930088D13Rik	0.0107	0.8521
NM_024263	1200013A08Rik	0.0192	0.8403
NM_144945	Lgi2	0.0007	0.8370
XM_126461	Obscn	0.0027	0.8362
NM_007426	Agpt2	0.0066	0.8191
XM_358312	Erbp2ip	0.0325	0.8141
NM_172447	A330021E22Rik	0.0262	0.8046
		0.0017	0.7933
NM_144817	Camk1g	0.0053	0.7897
	2900019A20Rik	0.0310	0.7897
NM_133699	Atp6v1c2	0.0073	0.7878
XM_484397	Dgkh	0.0059	0.7801
NM_010100	Edar	0.0061	0.7735
NM_011332	Ccl17	0.0023	0.7717
NM_183215	Al606181	0.0316	0.7706
NM_172512	Gabpb2	0.0220	0.7667
NM_013530	Gnb3	0.0225	0.7667
NM_016782	Cntnap1	0.0066	0.7658
NM_172418	5430432N15Rik	0.0263	0.7442
NM_010791	Meox1	0.0025	0.7436
NM_178718	E130113K22Rik	0.0401	0.7398
NM_016903	Esd	0.0175	0.7391
AK035116	E2f6	0.0326	0.7368
NM_026853	Asb11	0.0286	0.7271
NM_172568	4933417C16Rik	0.0114	0.7151
XM_358756	5730409G15Rik	0.0201	0.7144
NM_026681	0610010D24Rik	0.0250	0.7124
NM_009627	Adm	0.0257	0.7104
	3110005L24Rik	0.0248	0.7085
NM_026865	1700113I22Rik	0.0066	0.7072
NM_153565	Pcsk9	0.0001	0.7029
NM_017372	Lyzs	0.0060	0.7020
NM_173442	Gcnt1	0.0263	0.6931
NM_175517	4930412F15Rik	0.0187	0.6841
NM_183289	Tcerg1l	0.0196	0.6822
NM_024435	Nts	0.0016	0.6785
NM_025415	Cks2	0.0032	0.6782
NM_023114	Apoc3	0.0198	0.6694
AK084024	D130077B20Rik	0.0134	0.6663
AK053596	E130112N23Rik	0.0394	0.6645
NM_009471	Umpps	0.0388	0.6640
	B230216G23Rik	0.0112	0.6557
NM_177376	A430065P19Rik	0.0038	0.6503
NM_134072	9030611N15Rik	0.0051	0.6497
NM_183136	C630041L24Rik	0.0314	0.6459
NM_009633	Adra2b	0.0056	0.6410
XM_354589	LOC380679	0.0025	0.6408
NM_013754	Ins16	0.0110	0.6404
XM_149022	9630037P07Rik	0.0037	0.6400
AK084437	D230046H12Rik	0.0251	0.6356
NM_028679	Irak3	0.0002	0.6355
NM_053089	Narg1	0.0203	0.6232
NM_133656	Crk	0.0000	0.6208
		0.0289	0.6198

NM_013490	Chka	0.0306	0.6183
NM_146106	Lyplal1	0.0078	0.6178
NM_145983	Kcna5	0.0159	0.6170
NM_009171	Shmt1	0.0076	0.6139
	6330411E07Rik	0.0269	0.6113
NM_012000	Cln8	0.0061	0.6095
NM_013733	Chaf1a	0.0324	0.6080
NM_029716	Chn1	0.0122	0.6031
NM_177057	E230015B07Rik	0.0351	0.5953
NM_134089	Scrib	0.0199	0.5949
NM_026522	3110023E09Rik	0.0461	0.5900
AK081473	H2-M2	0.0450	0.5898
NM_010278	Gfi1	0.0077	0.5890
NM_007852	Defcr6	0.0123	0.5844
NM_033592	Pcdhga9	0.0494	0.5832
XM_355471	C430048L16Rik	0.0058	0.5806
NM_027036	1700001F22Rik	0.0196	0.5745
NM_020591	A030009H04Rik	0.0197	0.5728
NM_021359	Itgb6	0.0093	0.5709
XM_109715	Erbp2	0.0434	0.5690
NM_010941	Nsdhl	0.0458	0.5689
NM_177271	E130306M17Rik	0.0321	0.5686
NM_013531	Gnb4	0.0149	0.5657
NM_178420	BC034204	0.0237	0.5655
NM_009678	Ap1m2	0.0062	0.5643
AK038411	A230005G17Rik	0.0153	0.5634
XM_128291	0610005K03Rik	0.0381	0.5634
NM_172628	D430044G18Rik	0.0439	0.5631
NM_008548	Man1a	0.0034	0.5609
XM_205737	B230396K10Rik	0.0002	0.5609
NM_146182	Ercc2	0.0274	0.5602
NM_007710	Ckm	0.0196	0.5596
NM_145847	V1rj3	0.0191	0.5586
NM_145833	Lin28	0.0374	0.5558
XM_286972	LOC329164	0.0174	0.5543
NM_029019	Stard6	0.0399	0.5538
NM_026458	Abca14	0.0487	0.5538
NM_008974	Ptp4a2	0.0281	0.5537
NM_173439	Fbxo45	0.0215	0.5514
XM_359337	Pdzk4	0.0304	0.5499
NM_010773	Mbd2	0.0214	0.5479
NM_011494	Stk16	0.0034	0.5469
NM_010595	Kcna1	0.0452	0.5463
AK020747	A430024H01Rik	0.0129	0.5461
NM_175419	Actr5	0.0048	0.5461
NM_026290	4930511I11Rik	0.0388	0.5430
NM_007398	Ada	0.0491	0.5430
NM_013529	Gfpt2	0.0190	0.5418
NM_010617	Kif13a	0.0076	0.5374
NM_011668	Ube3a	0.0438	0.5362
NM_177845	2310026J01Rik	0.0241	0.5348
NM_153168	Lars2	0.0487	0.5340
NM_020048	Usp49	0.0209	0.5326
XM_204027	Prdm2	0.0064	0.5312
NM_010583	Itk	0.0459	0.5295
NM_029495	2310046K10Rik	0.0099	0.5293
NM_023854	Zfp289	0.0167	0.5293
AK088592	E430021A19Rik	0.0023	0.5262
NM_021280	Plcg1	0.0459	0.5249
AK016299	4930578F03Rik	0.0463	0.5241
XM_148981	LOC226538	0.0430	0.5236
NM_177036	C130022P09Rik	0.0409	0.5214
NM_031875	Otof	0.0005	0.5207
NM_009421	Traf1	0.0099	0.5204
NM_175356	Pik4cb	0.0065	0.5203
NM_008017	Smc2l1	0.0224	0.5202
	mym	0.0004	0.5195
NM_016845	Acrbp	0.0030	0.5167

NM_029803	2310061N23Rik	0.0152	0.5162
	1110002O04Rik	0.0023	0.5159
NM_153287	Axud1	0.0292	0.5156
NM_010024	Dct	0.0080	0.5156
NM_175506	Adamts19	0.0155	0.5151
NM_019500	Cldn14	0.0049	0.5146
NM_009355	Tesp1	0.0088	0.5139
NM_008409	Itm2a	0.0074	0.5137
XM_148728	2810426P10Rik	0.0088	0.5136
		0.0367	0.5132
AK082628	C230071F15Rik	0.0163	0.5131
		0.0143	0.5130
NM_009062	Rgs4	0.0006	0.5127
NM_009754	Bcl2l11	0.0349	0.5126
NM_177054	D130060C09Rik	0.0198	0.5118
	9530034E10Rik	0.0161	0.5107
NM_201611	H2-M10.6	0.0015	0.5099
NM_172156	Plig	0.0093	0.5097
XM_484024	Ragef6	0.0001	0.5087
NM_011711	Fmn13	0.0320	0.5067
AK087325	E030045B01Rik	0.0335	0.5065
NM_181682	Dsg1b	0.0168	0.5060
NM_026174	Entpd4	0.0379	0.5058
NM_178280	Sall3	0.0181	0.5057
NM_172644	5830468K18Rik	0.0173	0.5047
NM_027208	Dhrs6	0.0042	0.5040
NM_010642	Klk21	0.0113	0.5037
NM_177841	4932418E24Rik	0.0223	0.5036
NM_178680	Cmya4	0.0034	0.5028
NM_028633	1110020L19Rik	0.0020	0.5024
	2900034E22Rik	0.0069	0.5019
NM_177119	6030470M02Rik	0.0083	0.5017
NM_145210	Oas1e	0.0037	0.4988
NM_153091	St7l	0.0324	0.4973
XM_358227	LOC385403	0.0139	0.4955
XM_131801	Cda	0.0137	0.4954
XM_133238	LOC232937	0.0223	0.4947
NM_021877	Hr	0.0464	0.4945
	A230065J02Rik	0.0460	0.4941
NM_177213	4930500I12Rik	0.0034	0.4937
NM_207636	Fndc3	0.0266	0.4937
NM_011188	Psmc2	0.0170	0.4933
NM_207270	Ptprh	0.0006	0.4933
NM_026186	1300013D05Rik	0.0212	0.4900
AK077886	Aqr	0.0268	0.4874
NM_181683	Defb37	0.0037	0.4857
NM_008485	Lamc2	0.0379	0.4848
AK050695	D030005B14Rik	0.0203	0.4846
NM_021498	Pole3	0.0173	0.4827
AK044560	Cacnb2	0.0100	0.4827
NM_133648	Slc12a6	0.0266	0.4815
NM_011917	Xrn2	0.0156	0.4807
NM_139146	Satb2	0.0127	0.4799
BC065122		0.0426	0.4791
XM_284236	D630042F21Rik	0.0005	0.4774
NM_010415	Dtr	0.0367	0.4772
NM_207231	Arl12	0.0031	0.4749
	Gdap8	0.0043	0.4745
AK040502	Satb1	0.0185	0.4745
	1700031C06Rik	0.0152	0.4737
NM_009921	Camp	0.0320	0.4727
NM_176807	Folr4	0.0197	0.4725
NM_028746	Slc7a13	0.0321	0.4717
XM_126545	Trim25	0.0021	0.4716
AK082961	C530024C18Rik	0.0357	0.4715
	Neurod5	0.0264	0.4711
XM_358678	D830044I16Rik	0.0291	0.4708
	D630029K19Rik	0.0042	0.4698

NM_183408	Pde4a	0.0312	0.4698
NM_021276	Npn1	0.0119	0.4695
NM_007863	Mpp3	0.0242	0.4692
	A930035F09Rik	0.0094	0.4670
NM_010313	Gnb5	0.0199	0.4669
AK040168	A430071O12Rik	0.0424	0.4667
NM_198299	E130303B06Rik	0.0386	0.4663
	1110005N20Rik	0.0408	0.4662
NM_025958	2210404G23Rik	0.0030	0.4659
NM_013871	Mapk12	0.0266	0.4654
AK029315	4832420L08Rik	0.0049	0.4652
AK054446	Acox1	0.0474	0.4651
NM_008299	Dnajb3	0.0166	0.4645
XM_485570	Mll5	0.0160	0.4641
NM_207016	Tas2r106	0.0089	0.4636
NM_198093	Elmo1	0.0286	0.4632
NM_177715	Kctd12	0.0219	0.4630
	A730056I06Rik	0.0399	0.4623
NM_053245	Aipl1	0.0267	0.4622
XM_194962	LOC268812	0.0062	0.4612
NM_009342	Tctex1	0.0084	0.4608
XM_356992	LOC383336	0.0107	0.4605
NM_018760	Slc4a4	0.0218	0.4603
NM_020267	Trim44	0.0400	0.4594
NM_026674	0610008A10Rik	0.0497	0.4594
NM_146043	Spin	0.0320	0.4588
NM_023122	Gpm6b	0.0384	0.4585
XM_484572	1700093J21Rik	0.0040	0.4584
NM_144547	Amhr2	0.0373	0.4579
NM_133752	Opa1	0.0088	0.4568
AK021174	Suv39h1	0.0488	0.4564
XM_124040	LOC229274	0.0277	0.4564
NM_153745	Prkag3	0.0321	0.4563
NM_029949	Snapc3	0.0038	0.4562
AK045406	B230114H05Rik	0.0014	0.4551
NM_146294	Olf1r1167	0.0081	0.4550
NM_172966	Sh3rf2	0.0409	0.4544
NM_025730	4921513O20Rik	0.0196	0.4543
NM_011760	Zfp54	0.0109	0.4537
NM_009801	Car2	0.0145	0.4535
NM_198297	C030046M14Rik	0.0198	0.4520
NM_175482	Usp28	0.0076	0.4513
NM_007677	Psg17	0.0313	0.4507
XM_128412	Brp44l	0.0011	0.4506
NM_009044	Rel	0.0076	0.4498
NM_025945	Polr3d	0.0132	0.4495
NM_144817	Camk1g	0.0171	0.4494
NM_009123	Nkx1-2	0.0379	0.4490
NM_025951	Pi4k2b	0.0079	0.4487
AK031613	Ccnf	0.0031	0.4483
AK035243	9530004N09Rik	0.0326	0.4477
NM_009233	Sox1	0.0195	0.4476
NM_015771	Lats2	0.0312	0.4473
NM_007400	Adam12	0.0029	0.4471
NM_008007	Fgf3	0.0327	0.4471
NM_138657	Socs7	0.0077	0.4464
	D15Ertd528e	0.0336	0.4458
NM_183160	E030010A14	0.0387	0.4442
NM_027915	Ap2b1	0.0017	0.4429
NM_008856	Prkch	0.0022	0.4421
NM_026670	Zmym1	0.0083	0.4420
NM_025492	1700020L24Rik	0.0222	0.4414
NM_080708	Bmp2k	0.0053	0.4413
	3200001K10Rik	0.0216	0.4409
XM_139488	LOC207939	0.0025	0.4404
		0.0397	0.4396
NM_145386	BC005655	0.0422	0.4395
XM_195002	LOC271374	0.0373	0.4393

XM_130140	4933411C14Rik	0.0231	0.4376
XM_139533	A630029G22Rik	0.0067	0.4376
XM_132372	2210403N09Rik	0.0157	0.4359
U17869		0.0368	0.4345
NM_008815	Etv4	0.0113	0.4344
NM_175266	Epm2aip1	0.0056	0.4339
XM_357940	LOC384920	0.0169	0.4334
NM_172841	Slco5a1	0.0178	0.4329
XM_283101	9230106F14Rik	0.0454	0.4321
AK048362	C130052O15Rik	0.0174	0.4314
XM_147279	Myoz3	0.0233	0.4308
NM_146681	Olfr1424	0.0226	0.4307
XM_127701	4930550L21Rik	0.0026	0.4298
NM_172914	4933409I22	0.0108	0.4293
NM_008791	Pcp4	0.0290	0.4282
NM_173400	6230416J20Rik	0.0227	0.4281
NM_008711	Nog	0.0305	0.4278
NM_026247	Glt28d1	0.0273	0.4274
XM_358583	LOC381451	0.0119	0.4273
AK015349	Ppp1r2	0.0151	0.4269
NM_181544	Pkd1i3	0.0397	0.4267
XM_489165	9330104G04Rik	0.0224	0.4264
NM_009971	Csf3	0.0330	0.4261
NM_013870	Smtn	0.0053	0.4258
AK030347	5230401C23Rik	0.0363	0.4252
NM_025823	Pcyox1	0.0382	0.4251
XM_194455	BC033915	0.0451	0.4249
AK012586	Rbpms	0.0006	0.4248
		0.0321	0.4243
NM_010504	Ifna4	0.0068	0.4241
NM_011772	Zfpn1a4	0.0197	0.4234
NM_146176	Cnot3	0.0343	0.4223
AK053693	E130207H16Rik	0.0423	0.4212
AK086619	Birc6	0.0473	0.4209
XM_135879	1700020N15Rik	0.0255	0.4209
NM_007631	Ccnd1	0.0212	0.4206
NM_029322	1700024B05Rik	0.0125	0.4200
NM_016720	Neu3	0.0255	0.4199
NM_029402	Cul2	0.0493	0.4198
AK029752	Pdzk1	0.0141	0.4196
AK085041	D430029B19Rik	0.0410	0.4195
NM_206871	LOC384100	0.0415	0.4190
	4930487D11Rik	0.0214	0.4190
XM_289923	LOC333827	0.0062	0.4184
	E130112C09Rik	0.0202	0.4183
	2900079G21Rik	0.0183	0.4182
NM_146568	Olfr1012	0.0347	0.4178
AK047423	Odz1	0.0469	0.4173
NM_178716	Tnpo1	0.0009	0.4172
NM_080793	Set7	0.0117	0.4167
	B230303A05	0.0375	0.4164
NM_009072	Rock2	0.0441	0.4160
NM_053136	Pcdhb11	0.0487	0.4156
NM_178408	Arrdc1	0.0299	0.4156
NM_173396	Tgif2	0.0187	0.4154
NM_009461	Ubr1	0.0134	0.4149
NM_175024	G630049C14Rik	0.0011	0.4140
NM_011302	Rs1h	0.0488	0.4137
NM_018852	Scn9a	0.0150	0.4134
NM_145122	Pex16	0.0330	0.4132
NM_027802	Obox1	0.0392	0.4130
NM_176970	C230008H04Rik	0.0087	0.4130
NM_009985	Ctsw	0.0131	0.4126
XM_140116	LOC225058	0.0279	0.4126
NM_010517	lgfbp4	0.0036	0.4124
NM_021374	Rgs20	0.0280	0.4123
NM_008666	Myt1l	0.0171	0.4121
NM_138952	Ripk2	0.0055	0.4117

NM_175117	Fem1c	0.0289	0.4113
NM_030730	Srisnf2l	0.0183	0.4103
NM_175631	Cbln4	0.0428	0.4103
NM_009755	Bmp1	0.0089	0.4101
NM_007408	Adfp	0.0191	0.4099
AK086627	D930042J21Rik	0.0414	0.4088
NM_028194	2510002A14Rik	0.0051	0.4086
NM_207636	Fndc3	0.0087	0.4085
AK043242	4930563E22Rik	0.0000	0.4084
NM_172953	Serpina5	0.0224	0.4083
	4933428C19Rik	0.0019	0.4079
NM_146944	Olfir348	0.0222	0.4077
XM_131300	2310030N02Rik	0.0212	0.4074
NM_147218	Abca6	0.0201	0.4070
NM_012027	AA536749	0.0279	0.4069
XM_357148	LOC383602	0.0360	0.4066
XM_283179	4930420O11Rik	0.0201	0.4062
NM_144945	Lgi2	0.0008	0.4056
AK084671	D330027L06Rik	0.0480	0.4056
NM_199024	Nol4	0.0088	0.4049
NM_203396	Eapa2	0.0497	0.4048
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NM_145625	Eif4b	0.0199	0.4043
NM_013496	Crabp1	0.0334	0.4036
AK013846	2900093E15Rik	0.0302	0.4032
		0.0239	0.4030
XM_357431	LOC384106	0.0464	0.4027
	3110018C07Rik	0.0195	0.4024
NM_153807	BC018371	0.0162	0.4020
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NM_008829	Pgr	0.0422	0.4019
NM_173384	Sox30	0.0402	0.4012
NM_178872	Trim36	0.0231	0.4004
NM_028054	Zfyve19	0.0443	0.3997
AK042561	A730006E03Rik	0.0406	0.3993
AK015790	Mscp-pending	0.0062	0.3987
NM_032460	Bat4	0.0321	0.3981
	A630084N20Rik	0.0274	0.3975
		0.0126	0.3974
NM_015755	Hunk	0.0206	0.3966
NM_026189	2310005P05Rik	0.0196	0.3952
NM_007862	Dlgh1	0.0025	0.3951
NM_026693	Gabarapl2	0.0484	0.3949
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	2810408I11Rik	0.0052	0.3948
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AK008522	2010305C02Rik	0.0170	0.3941
XM_129338	BC034834	0.0438	0.3941
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AK075684	1110070O15Rik	0.0438	0.3937
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NM_025637	2510027J23Rik	0.0153	0.3933
	A130001G05Rik	0.0259	0.3928
NM_009397	Tnfai3	0.0250	0.3927
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NM_008576	Abcc1	0.0085	0.3923
	4930406M16Rik	0.0006	0.3921
NM_175439	C730026E21Rik	0.0390	0.3918
	Sla2	0.0484	0.3918
XM_354681	Slc39a9	0.0166	0.3911
NM_016780	Itgb3	0.0496	0.3911
AK076523	4833440I11Rik	0.0167	0.3907
NM_008943	Psen1	0.0082	0.3897
NM_178602	Grin1a	0.0336	0.3896
NM_016915	Pla2g6	0.0155	0.3896

NM_144854	ORF63	0.0119	0.3896
		0.0436	0.3895
NM_008628	Msh2	0.0153	0.3893
XM_132005	4933407H18Rik	0.0312	0.3890
AK081106	B930088D18Rik	0.0256	0.3872
NM_016963	Tmod3	0.0416	0.3865
NM_030209	1810049K24Rik	0.0377	0.3855
NM_133865	Dclre1b	0.0485	0.3853
BC006665	Map3k7	0.0130	0.3851
		0.0238	0.3850
NM_025367	Sphk1	0.0011	0.3850
	A930005G04Rik	0.0004	0.3848
XM_285284	LOC332362	0.0374	0.3839
NM_015799	Trfr2	0.0125	0.3835
NM_172851	C230078M14	0.0266	0.3834
XM_283153	2310047G20Rik	0.0041	0.3821
NM_025875	Rbm8	0.0222	0.3815
XM_150130	3010033K07Rik	0.0132	0.3814
NM_175554	Clspn	0.0302	0.3808
NM_139225	Defb10	0.0479	0.3796
XM_284961	LOC328083	0.0027	0.3789
NM_053011	Lrp1b	0.0485	0.3787
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AK032947	Meis1	0.0372	0.3785
AK041288	A530097D12Rik	0.0271	0.3782
NM_153597	Tpt1h	0.0231	0.3780
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	C030004G16Rik	0.0047	0.3772
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	1700120J03Rik	0.0491	0.3770
NM_177844	4732421G10Rik	0.0489	0.3770
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NM_029343	1700030K01Rik	0.0299	0.3766
NM_024190	2810405I11Rik	0.0301	0.3766
NM_010473	Hrc	0.0394	0.3766
XM_358209	LOC385368	0.0063	0.3764
AK079067	9330131P21Rik	0.0497	0.3756
XM_358428	Dio3as	0.0033	0.3755
AK077305	5330403O16Rik	0.0355	0.3748
NM_007803	Ctnn	0.0051	0.3744
NM_183274	0610041G09Rik	0.0273	0.3742
NM_009687	Apex1	0.0232	0.3734
NM_178628	Spg3a	0.0480	0.3733
	2900092D14Rik	0.0127	0.3727
NM_146550	Olf1r810	0.0158	0.3722
NM_023799	Mgea5	0.0298	0.3721
NM_028890	4931414P19Rik	0.0143	0.3719
NM_020009	Frap1	0.0132	0.3718
	AW536289	0.0247	0.3717
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NM_025433	1500016H10Rik	0.0279	0.3710
XM_355856	LOC381843	0.0500	0.3701
	4930502C15Rik	0.0049	0.3698
NM_023502	Elf2	0.0231	0.3697
NM_025499	1700027M21Rik	0.0020	0.3696
XM_356181	LOC382100	0.0223	0.3696
NM_172616	C330027C09Rik	0.0194	0.3694
	4921534H16Rik	0.0180	0.3693
NM_172463	Sned1	0.0055	0.3681
NM_009858	Cd8b	0.0371	0.3679
NM_026301	Rnf125	0.0276	0.3679
	9630005C17Rik	0.0470	0.3673
XM_129747	Cyp20a1	0.0242	0.3666
		0.0016	0.3665
NM_013657	Sema3c	0.0170	0.3664
XM_288381	LOC327853	0.0058	0.3658
AK079259	9530062M13Rik	0.0423	0.3655
NM_172917	A830048P05	0.0121	0.3654

AK079739	Gstt2	0.0026	0.3648
XM_146948	Unc13c	0.0021	0.3646
XM_149230	1700060C20Rik	0.0335	0.3645
NM_023529	Ms4a10	0.0099	0.3639
AK007267	Cox6a1	0.0087	0.3635
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XM_132621	Cd8a	0.0499	0.3615
XM_127701	Slc35f4	0.0001	0.3611
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NM_011361	Sgk	0.0372	0.3606
NM_011346	Sell	0.0110	0.3597
NM_028060	Slc35f2	0.0062	0.3589
XM_358034	LOC385074	0.0171	0.3588
	D930002L09Rik	0.0198	0.3581
NM_175357	Crbn	0.0395	0.3574
NM_008656	Myf5	0.0114	0.3567
NM_016961	Mapk9	0.0222	0.3567
NM_181315	Car5b	0.0093	0.3560
NM_010849	Myc	0.0117	0.3560
NM_010397	H2-T22	0.0147	0.3552
NM_145575	Cald1	0.0181	0.3547
NM_145526	P2rx3	0.0118	0.3546
NM_177234	B230340J04Rik	0.0336	0.3543
XM_485279	4930535B03Rik	0.0077	0.3540
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	E030047P09Rik	0.0210	0.3539
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XM_194241	Mphosph9	0.0305	0.3523
NM_153196	Rbks	0.0442	0.3521
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	1700049J03Rik	0.0294	0.3516
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NM_010907	Nfkbia	0.0457	0.3509
	4930511F01Rik	0.0478	0.3491
AK004731	1200012P04Rik	0.0413	0.3490
AK048680	NK1R	0.0273	0.3487
	1500002F19Rik	0.0440	0.3483
AK037589	A130028H19Rik	0.0250	0.3479
	1700010B13Rik	0.0220	0.3475
NM_178625	2700094F01Rik	0.0150	0.3469
NM_177832	Zfp236	0.0363	0.3464
AK048239	C130042F01Rik	0.0050	0.3462
NM_025880	2410002F23Rik	0.0292	0.3459
NM_133932	Tada3l	0.0077	0.3458
NM_025894	Psmc12	0.0086	0.3458
NM_011339	Cxcl15	0.0063	0.3456
NM_178672	Scfd2	0.0236	0.3453
	9430010M06Rik	0.0421	0.3451
XM_193941	4833409A17Rik	0.0203	0.3449
NM_030000	Cep1	0.0037	0.3446
XM_139476	LOC239556	0.0243	0.3445
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NM_177722	6030422M02Rik	0.0222	0.3441
AK090292	G630039A15Rik	0.0314	0.3438
NM_146451	Olfir164	0.0072	0.3433
AK045348	Grid2	0.0439	0.3429
BC054786	Myo1b	0.0238	0.3424
NM_176936	B230325K18Rik	0.0257	0.3422
XM_355441	Lgr7	0.0117	0.3421
NM_032398	Plvap	0.0308	0.3416
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AK040611	Mrg1	0.0215	0.3409
NM_080858	Asb12	0.0174	0.3406

NM_177912	AI987692	0.0391	0.3404
XM_284597	LOC331177	0.0026	0.3403
XM_136734	Tsga10	0.0124	0.3394
XM_357153	LOC383612	0.0341	0.3392
NM_172432	C030002O17Rik	0.0165	0.3392
XM_132640	Emx1	0.0159	0.3391
	5830418L09Rik	0.0200	0.3390
NM_007505	Atp5a1	0.0124	0.3382
AK044704	A930034L24Rik	0.0335	0.3379
XM_283990	LOC329926	0.0397	0.3375
	A230071A22Rik	0.0243	0.3375
NM_175213	4930486G11Rik	0.0351	0.3373
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	4930556N08Rik	0.0480	0.3370
NM_146141	1110013G13Rik	0.0056	0.3363
NM_139306	CRG-L1	0.0087	0.3362
NM_010517	Igfbp4	0.0075	0.3361
	1700016D18Rik	0.0054	0.3355
NM_027494	Zcchc8	0.0330	0.3352
AK034273	Kif7	0.0488	0.3352
	A430102M06Rik	0.0081	0.3349
	C430014O12Rik	0.0097	0.3348
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NM_199023	4930526D03Rik	0.0118	0.3343
NM_007424	Agc1	0.0045	0.3341
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NM_011992	Rcn2	0.0131	0.3340
NM_026614	Ndufa5	0.0302	0.3339
NM_172977	Gtf3c4	0.0041	0.3336
NM_009081	Rpl28	0.0213	0.3335
	B130064M09Rik	0.0367	0.3322
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AK050607	C920013G19Rik	0.0272	0.3311
NM_133678	2410004C24Rik	0.0410	0.3305
NM_138956	Rassf3	0.0006	0.3300
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AK085762	D830005E20Rik	0.0226	0.3295
AK016259	4930569O18Rik	0.0239	0.3294
NM_028752	0610039P13Rik	0.0498	0.3288
	Etohi3	0.0154	0.3287
NM_153808	Smc5l1	0.0137	0.3286
NM_172889	A230058J24Rik	0.0373	0.3285
AK018183	6330416L11Rik	0.0031	0.3284
AK012302	2700029L05Rik	0.0129	0.3280
	2610035F20Rik	0.0274	0.3273
NM_175197	1700055D18Rik	0.0000	0.3267
NM_177879	Sdk1	0.0447	0.3264
AK086178	D930010K02Rik	0.0218	0.3264
XM_356832	LOC383063	0.0213	0.3262
AK053021	D930017N16Rik	0.0460	0.3255
XM_135859	Mospd1	0.0315	0.3255
NM_008633	Mtap4	0.0433	0.3252
NM_008372	Ii7r	0.0202	0.3250
NM_029522	Gpsm2	0.0422	0.3250
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		0.0443	0.3248
XM_139937	LOC224763	0.0321	0.3246
NM_176962	6330416L07Rik	0.0060	0.3244
AK086770	D930050H18Rik	0.0449	0.3243
NM_025993	Misc12	0.0324	0.3242
	4930480K15Rik	0.0468	0.3236
NM_008388	Eif3s6	0.0379	0.3235
NM_146735	Olfra483	0.0145	0.3235
NM_172648	Ifi205	0.0177	0.3234
	4932422M17Rik	0.0262	0.3233
NM_010721	Lmnb1	0.0176	0.3229
NM_011570	Tes	0.0205	0.3227
NM_030015	Peli1	0.0374	0.3226

XM_356518	LOC382461	0.0266	0.3226
NM_153589	Tmem16b	0.0100	0.3225
NM_008935	Prom1	0.0001	0.3224
	4930556G01Rik	0.0157	0.3223
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AK039677	A330084E23Rik	0.0429	0.3222
NM_145227	Oas2	0.0040	0.3221
	LOC328277	0.0085	0.3216
	5830407F19Rik	0.0428	0.3214
		0.0133	0.3213
XM_358385	1300006C19Rik	0.0028	0.3209
XM_357432	LOC384109	0.0049	0.3206
NM_177826	Thada	0.0037	0.3205
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NM_013621	Olfcr69	0.0441	0.3194
XM_358154	LOC385258	0.0103	0.3193
XM_126912	6030408C04Rik	0.0399	0.3192
NM_147064	Olfcr449	0.0102	0.3191
NM_015775	Tmprss2	0.0404	0.3190
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NM_024441	Hspb2	0.0243	0.3184
NM_013607	Myh11	0.0372	0.3183
NM_011500	Strn	0.0286	0.3181
		0.0147	0.3181
NM_009367	Tgfb2	0.0023	0.3180
NM_019646	Eif3s8	0.0042	0.3180
	5430432H19Rik	0.0150	0.3178
XM_284369	9330101J02Rik	0.0426	0.3178
NM_009454	Ube2e3	0.0170	0.3174
XM_358502	LOC381087	0.0110	0.3167
NM_181317	Kcns2	0.0112	0.3162
AK036192	Grid2	0.0350	0.3159
NM_146221	Zfp426	0.0291	0.3156
NM_182807	Al851790	0.0073	0.3156
NM_148922	Mdm1	0.0391	0.3154
XM_354836	LOC380928	0.0139	0.3151
NM_053244	Gpr54	0.0319	0.3149
AK083112	C630015B10Rik	0.0264	0.3145
XM_488840	4930563E18Rik	0.0185	0.3145
XM_357744	LOC384614	0.0123	0.3143
AK043617	A830012I21Rik	0.0269	0.3142
XM_357492	LOC384211	0.0045	0.3141
AK088947	E430033B07Rik	0.0267	0.3135
AK020784	A430108B07Rik	0.0444	0.3132
		0.0349	0.3131
NM_133350	Mapre3	0.0115	0.3125
NM_138599	Tomm70a	0.0274	0.3123
AK083061	C530041E22Rik	0.0455	0.3120
		0.0108	0.3119
XM_134573	Dncli2	0.0243	0.3113
NM_007489	Arntl	0.0152	0.3112
AK051380	Ccnl	0.0447	0.3109
XM_126359	5730409G07Rik	0.0442	0.3106
NM_175190	2900010J23Rik	0.0342	0.3104
NM_028369	2810468K17Rik	0.0388	0.3104
XM_355530	LOC381568	0.0318	0.3092
		0.0419	0.3087
NM_023048	Asb4	0.0065	0.3084
NM_148940	1700036D21Rik	0.0411	0.3084
NM_031199	Tgfa	0.0187	0.3084
NM_009788	Calb1	0.0289	0.3083
XM_358070	LOC385122	0.0069	0.3080
AK052952	D930002M03Rik	0.0207	0.3075
NM_133205	Arr3	0.0470	0.3074
XM_357614	LOC384384	0.0400	0.3068

XM_357905	LOC384865	0.0194	0.3067
NM_176830	1110036O03Rik	0.0255	0.3065
	8030487O14Rik	0.0107	0.3065
XM_283056	D030072B18Rik	0.0384	0.3063
	4631408O11Rik	0.0192	0.3060
AK042364	A630085E08Rik	0.0108	0.3059
NM_013586	Loxl3	0.0178	0.3055
NM_181547	LOC329416	0.0029	0.3051
NM_008170	Grin2a	0.0329	0.3051
XM_132216	1700016H13Rik	0.0319	0.3051
NM_009277	Trim21	0.0396	0.3051
AK045610	B230215E15Rik	0.0030	0.3048
AK050176	C730025B03Rik	0.0062	0.3047
NM_023821	Cmya5	0.0033	0.3041
NM_021609	Ccbp2	0.0333	0.3039
NM_030710	Slamf6	0.0269	0.3037
XM_126331	1700024C24Rik	0.0145	0.3034
NM_206816	Olfir128	0.0489	0.3033
XM_355676	3830408G10Rik	0.0426	0.3032
NM_025737	4931417E11Rik	0.0137	0.3031
NM_144846	0910001A06Rik	0.0127	0.3029
	8430437O03Rik	0.0211	0.3027
NM_030137	Cstad	0.0346	0.3024
XM_356261	LOC382161	0.0374	0.3024
XM_204072	Ephb2	0.0382	0.3022
	4930547G20Rik	0.0307	0.3020
NM_174993	3830422N12Rik	0.0127	0.3020
NM_172421	Asxl2	0.0354	0.3019
AK036415	Mpp1	0.0493	0.3014
NM_021489	F12	0.0150	0.3012
AK015350	4930440M09Rik	0.0081	0.3012
AK051600	Emu2-pending	0.0174	0.3009
XM_132755	Nanog	0.0295	0.3005
XM_111312	LOC193330	0.0095	0.3005
NM_178917	Arrdc3	0.0333	0.3005
NM_133906	9130423L19Rik	0.0031	0.3001
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	1700112J16Rik	0.0414	0.2982
NM_177213	4930500I12Rik	0.0319	0.2972
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XM_133531	LOC384729	0.0343	0.2945
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	4833419A21Rik	0.0227	0.2925
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		0.0488	0.2701
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AK014174	Chk	0.0300	0.2697
XM_142157	LOC237048	0.0214	0.2696
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AK029458	4833441B18Rik	0.0467	0.2690
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	6030442E23Rik	0.0255	0.2684
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NM_138676	Shkbp1	0.0039	-0.3396

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AK083277	C630032P22Rik	0.0331	-0.3406
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NM_016810	Gosr1	0.0063	-0.3413
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NM_007623	Cbx2	0.0232	-0.5022
	2900084C01Rik	0.0178	-0.5023
NM_009291	Stra6	0.0308	-0.5029
XM_149067	2410088K16Rik	0.0111	-0.5066
NM_016851	Irf6	0.0027	-0.5072
NM_013628	Pcsk1	0.0030	-0.5073
NM_009192	Sla	0.0267	-0.5074
AK041791		0.0380	-0.5076
AK020115	6720426B09Rik	0.0470	-0.5078
NM_018793	Tyk2	0.0218	-0.5094
NM_175468	A930029K19Rik	0.0364	-0.5094
AK012186	Eif2s3y	0.0197	-0.5096
	9530086O07Rik	0.0008	-0.5136
NM_033566	Arid1a	0.0382	-0.5146
NM_010304	Gna15	0.0234	-0.5157
XM_486035	C330014O21Rik	0.0199	-0.5157
NM_198418	Tdrd6	0.0475	-0.5158
NM_177656	6820408C15Rik	0.0010	-0.5162
NM_007812	Cyp2a5	0.0300	-0.5179
XM_147132	Kbtbd5	0.0290	-0.5182
NM_025831	1300014I06Rik	0.0005	-0.5182
NM_009112	S100a10	0.0306	-0.5183
XM_356713	LOC382857	0.0181	-0.5187
AK042960	A730043L23Rik	0.0097	-0.5194
NM_010455	Hoxa7	0.0429	-0.5205
NM_007675	Ceacam10	0.0307	-0.5214
XM_149244	LOC228868	0.0001	-0.5230
NM_027397	Isl2	0.0145	-0.5238
NM_153151	Acat3	0.0091	-0.5263
NM_176978	5930422O12Rik	0.0205	-0.5265
AK011501	Csnk2a1-rs4	0.0101	-0.5270
NM_030070	4921529O18Rik	0.0176	-0.5291
NM_173068	Syt7	0.0017	-0.5299
XM_145814	LOC233614	0.0058	-0.5320
XM_140860	LOC227677	0.0023	-0.5348
AK033068	7630402G21Rik	0.0017	-0.5386
NM_145922	Kcnc4	0.0400	-0.5386
NM_138672	Stab1	0.0126	-0.5402
NM_008652	Mybl2	0.0049	-0.5406
	2010204O13Rik	0.0047	-0.5410
NM_016803	Chst3	0.0013	-0.5419
NM_028500	Calr3	0.0136	-0.5419
NM_009365	Tgfb1i1	0.0102	-0.5435

		0.0002	-0.5445
NM_011025	Oxt	0.0058	-0.5447
	4930452G13Rik	0.0366	-0.5450
XM_149066	Asb1	0.0122	-0.5472
	9630002A11Rik	0.0019	-0.5472
AK033289	Mycbp	0.0010	-0.5477
AK084012	Slit2	0.0030	-0.5504
XM_359365	LOC386516	0.0042	-0.5521
NM_016901	Oaz3	0.0368	-0.5524
NM_011324	Scnn1a	0.0248	-0.5528
	A130090K04Rik	0.0153	-0.5557
NM_145557	9430015G10Rik	0.0158	-0.5571
AK038489	A230020C19Rik	0.0442	-0.5595
XM_109894	Usp22	0.0025	-0.5597
AK035763	9630002F18Rik	0.0467	-0.5613
XM_131647	Grik3	0.0459	-0.5614
NM_025654	Rad52b	0.0006	-0.5617
XM_134502		0.0054	-0.5627
XM_354873	LOC380961	0.0088	-0.5672
NM_011877	Ptpn21	0.0208	-0.5689
XM_127662	4933428D01Rik	0.0069	-0.5693
XM_148336	Pla2g10	0.0048	-0.5709
NM_172463	Sned1	0.0318	-0.5712
NM_010430	Hic1	0.0047	-0.5718
NM_133664	Lad1	0.0192	-0.5718
AK034497	9330200H04Rik	0.0494	-0.5755
NM_178870	Hs3st3a1	0.0239	-0.5763
NM_010551	Ii16	0.0377	-0.5772
NM_010552	Ii17	0.0055	-0.5781
NM_009063	Rgs5	0.0091	-0.5809
AK016212	4930563O14Rik	0.0327	-0.5831
NM_029306	1700012B09Rik	0.0121	-0.5840
NM_023695	Crybb1	0.0002	-0.5878
XM_136366	LOC226601	0.0168	-0.5898
XM_135161	1700024B07Rik	0.0205	-0.5914
		0.0367	-0.5919
NM_182808	C630007B19Rik	0.0476	-0.5938
AK075730		0.0136	-0.5992
NM_199079	2610007K22Rik	0.0195	-0.6026
	A730032A03Rik	0.0148	-0.6039
NM_080437	Celsr3	0.0246	-0.6061
XM_131741	9430088F20	0.0050	-0.6117
XM_489253	C230057M02Rik	0.0348	-0.6143
NM_010702	Lect2	0.0010	-0.6158
XM_138942	4731413G05Rik	0.0024	-0.6164
	5033414D05Rik	0.0447	-0.6196
NM_019756	Tubd1	0.0267	-0.6252
NM_148927	Plekha4	0.0393	-0.6265
NM_007752	Cp	0.0059	-0.6276
XM_357746	A230106M20Rik	0.0066	-0.6325
NM_177790	A930006D11	0.0068	-0.6326
XM_355795	1190003M12Rik	0.0048	-0.6350
NM_013503	Drd5	0.0013	-0.6377
XM_357047	LOC383428	0.0205	-0.6419
NM_010410	Hcrt	0.0438	-0.6457
NM_144927	BC019943	0.0347	-0.6482
XM_203859	Tp53i11	0.0111	-0.6545
NM_023059	Al256711	0.0138	-0.6573
NM_007883	Dsg2	0.0177	-0.6583
NM_011161	Mapk11	0.0217	-0.6602
NM_182930	Plekha6	0.0301	-0.6643
NM_028841	Fbxo23	0.0183	-0.6653
AK015077	4930404F20Rik	0.0266	-0.6727
NM_145922	Kcnc4	0.0052	-0.6747
NM_010020	Slc6a3	0.0170	-0.6811
NM_007782	Csf3r	0.0133	-0.6858
NM_175293	D630023F18Rik	0.0257	-0.6885
NM_198034	B830021E24Rik	0.0205	-0.6900

NM_177037	A230059G12Rik	0.0135	-0.6929
NM_172455	Tmprss7	0.0103	-0.6943
	3110035G12Rik	0.0043	-0.6947
AK041962	A630049A05Rik	0.0429	-0.6990
NM_025312	Sostdc1	0.0197	-0.7035
AK031203	5930429A15Rik	0.0135	-0.7088
XM_283172	A530089L17	0.0201	-0.7092
NM_009242	Sparc	0.0111	-0.7127
NM_028795	1810018F18Rik	0.0248	-0.7170
XM_126517	Car10	0.0322	-0.7186
	1110030E23Rik	0.0449	-0.7198
NM_022007	Fxyd7	0.0013	-0.7295
NM_133190	Cacng8	0.0152	-0.7363
NM_173404	Bmp3	0.0405	-0.7398
NM_021704	Cxcl12	0.0036	-0.7688
NM_019756	Tubd1	0.0038	-0.7711
NM_178399	3110035E14Rik	0.0391	-0.7724
NM_026820	Ifitm1	0.0157	-0.7731
NM_030725	Syt13	0.0048	-0.7769
NM_010915	Ngfa	0.0006	-0.7881
NM_144545	Eif3s1	0.0302	-0.8079
AK021409		0.0187	-0.8100
NM_007745	Cort	0.0068	-0.8172
NM_011814	Fxr2h	0.0003	-0.8204
NM_008679	Ncoa3	0.0239	-0.8316
AK051269	Msi2h	0.0068	-0.8425
XM_358675	LOC381904	0.0109	-0.8488
NM_030707	Msr2	0.0036	-0.8536
NM_053167	Trim9	0.0421	-0.8688
XM_150027	LOC330668	0.0106	-0.8689
NM_019505	Dgke	0.0000	-0.8737
NM_001003720	Ly6g6e	0.0354	-0.9511
XM_134161	LOC211895	0.0000	-0.9952
	Adamts9	0.0108	-1.0321
NM_008121	Gja5	0.0008	-1.0464
NM_147219	Abca5	0.0005	-1.0578
NM_139298	Wnt9a	0.0180	-1.1222
NM_013613	Nr4a2	0.0181	-1.1224
NM_153820	Arhgap15	0.0074	-1.1625
NM_007745	Cort	0.0047	-1.2657
NM_153529	Nrn1	0.0383	-1.3503
AK011168	Nudel-pending	0.0010	-1.3752
XM_484075	B230105J10	0.0001	-1.4339
	2610507I01Rik	0.0026	-1.4654
AK006979	1700082G03Rik	0.0006	-1.4753
NM_028963	4933427D14Rik	0.0000	-1.5097
NM_008939	Prss12	0.0318	-1.6265
XM_354621	LOC380706	0.0003	-1.6949
	C030037D09Rik	0.0000	-2.5132
NM_010661	Krt1-12	0.0000	-3.4075
NM_010412	Hdac5	0.0000	-3.5474
NM_010661	Krt1-12	0.0000	-3.7176
NM_010412	Hdac5	0.0000	-3.8608

Supplemental Table S3:
KO Cocaine vs. KO Saline significantly regulated genes

ACCESSION	SYMBOL	p-value	log2
NM_183136	C630041L24Rik	0.0101	1.3939
NM_138654	AF397014	0.0096	1.2942
NM_029578	2610025M23Rik	0.0491	1.1402
AK005711	1700007G11Rik	0.0236	0.9423
NM_145451	Gpx6	0.0156	0.8978
XM_357133	LOC383579	0.0000	0.8260
NM_007710	Ckm	0.0095	0.8019
NM_145079	Ugt1a6	0.0057	0.7955
XM_354676	LOC380764	0.0488	0.7907
NM_021332	Glp1r	0.0069	0.7788
NM_031156	Ide	0.0117	0.7755
XM_359060	LOC386081	0.0031	0.7713
NM_011332	Ccl17	0.0131	0.7636
NM_054100	2310034C09Rik	0.0053	0.7598
NM_028532	1700055M20Rik	0.0059	0.7596
NM_010642	Klk21	0.0117	0.7539
AK077886	Aqr	0.0008	0.7530
AK079067	9330131P21Rik	0.0317	0.7249
XM_358312	Erbp2ip	0.0487	0.7049
NM_133975	Trip12	0.0203	0.6949
NM_181407	1700020C08Rik	0.0276	0.6943
NM_011806	Dmtf1	0.0229	0.6900
NM_198224	1700060E18Rik	0.0104	0.6894
AK048153	Ophn1	0.0036	0.6865
NM_172447	A330021E22Rik	0.0321	0.6852
XM_132372	2210403N09Rik	0.0126	0.6803
AK049009	C230091E20Rik	0.0417	0.6778
NM_145210	Oas1e	0.0041	0.6770
NM_146218	BC027246	0.0192	0.6763
NM_177841	4932418E24Rik	0.0048	0.6694
NM_145079	Ugt1a6	0.0429	0.6692
NM_199299	Phf15	0.0111	0.6688
NM_010232	Fmo5	0.0014	0.6657
NM_008811	Pdha2	0.0004	0.6613
AK035512	9530058K19Rik	0.0103	0.6579
NM_021503	Myoz2	0.0033	0.6503
NM_145481	Parp14	0.0188	0.6498
AK018143	6330408J11Rik	0.0096	0.6465
NM_026865	1700113I22Rik	0.0138	0.6445
NM_010708	Lgals9	0.0492	0.6425
XM_354881	1700030F18Rik	0.0036	0.6375
XM_355258	LOC381311	0.0447	0.6370
NM_029335	1700026D08Rik	0.0362	0.6366
NM_019629		0.0323	0.6357
NM_172485	D130067I03Rik	0.0276	0.6322
NM_146568	Olf1012	0.0088	0.6310
		0.0335	0.6272
	C030013G03Rik	0.0354	0.6268
AK050695	D030005B14Rik	0.0199	0.6265
NM_007731	Col13a1	0.0021	0.6264
	Ak7	0.0396	0.6225
NM_013874	Neud4	0.0101	0.6225
NM_010006	Cyp2d9	0.0040	0.6168
XM_485891	4933403G17Rik	0.0010	0.6142
NM_027983	2310015J09Rik	0.0104	0.6134
NM_172156	Plig	0.0078	0.6130
NM_207633	A430107J06Rik	0.0271	0.6094
	1500035N22Rik	0.0386	0.6093
NM_026021	Zmynd19	0.0072	0.6060
NM_177115	A530081L18Rik	0.0003	0.5997
NM_145929	Gga1	0.0468	0.5985
NM_139225	Defb10	0.0136	0.5970
XM_355895	1700023D19Rik	0.0198	0.5965
XM_355358	LOC381400	0.0021	0.5963
AK021174	Suv39h1	0.0105	0.5945
NM_146868	Olf1894	0.0353	0.5909
XM_355512	LOC381546	0.0178	0.5898

	1700058M13Rik	0.0289	0.5894
	A230060L02Rik	0.0100	0.5890
NM_146538	Olfr315	0.0002	0.5878
	A230009B12Rik	0.0096	0.5875
NM_178704	9330164H19Rik	0.0232	0.5840
AK035827	Tcfap2b	0.0152	0.5824
NM_026253	4930442L21Rik	0.0466	0.5803
NM_019729	Usp8	0.0496	0.5790
NM_148413	Myo3a	0.0073	0.5775
NM_148922	Mdm1	0.0432	0.5748
AK030964	Akap8	0.0308	0.5744
	2610007O09Rik	0.0266	0.5731
NM_153403	Eif2c1	0.0497	0.5715
NM_153784	BC038613	0.0376	0.5704
XM_133912	Mki67	0.0323	0.5698
NM_181274	1200003I07Rik	0.0081	0.5686
NM_053112	Ear10	0.0140	0.5676
NM_178218	Hist3h2a	0.0130	0.5671
NM_146738	Olfr497	0.0231	0.5667
XM_127342	E130119H09Rik	0.0127	0.5663
NM_028778	1200013B22Rik	0.0188	0.5659
NM_026853	Asb11	0.0313	0.5628
AK085407	D630022O22Rik	0.0013	0.5617
XM_358149	LOC385252	0.0039	0.5614
NM_146360	Olfr574	0.0022	0.5606
	4933408K01Rik	0.0008	0.5598
NM_026670	Zmym1	0.0002	0.5589
	1700084M14Rik	0.0123	0.5585
NM_058212	Dpf3	0.0065	0.5576
NM_010669	Krt2-6b	0.0427	0.5574
NM_172568	4933417C16Rik	0.0047	0.5569
NM_009378	Thbd	0.0380	0.5568
NM_022654	Lrdd	0.0053	0.5561
		0.0104	0.5528
XM_126912	6030408C04Rik	0.0409	0.5510
AK040738	A530021P12Rik	0.0248	0.5465
AK078182	6430404H03Rik	0.0167	0.5457
	1700017M07Rik	0.0108	0.5449
NM_172538	Al854408	0.0121	0.5445
AK039919	Atp8a1	0.0468	0.5437
NM_028315	2810028N01Rik	0.0052	0.5424
NM_011059	Padi1	0.0360	0.5420
BC042212	Madd	0.0282	0.5415
NM_144812	D230019K20Rik	0.0089	0.5411
	1500006G06Rik	0.0104	0.5400
XM_144699	D530004J12Rik	0.0246	0.5394
AK076496	Trrp4ap-pending	0.0133	0.5392
NM_178908	BB146404	0.0147	0.5392
NM_134183	V1rc28	0.0369	0.5358
NM_148939	Ly6g5b	0.0082	0.5335
AK040807	A530026H04Rik	0.0311	0.5331
NM_138657	Socs7	0.0118	0.5331
NM_053204	Rab6ip2	0.0415	0.5329
	1700007I08Rik	0.0405	0.5324
NM_007677	Psg17	0.0231	0.5317
NM_013591	Madcam1	0.0015	0.5308
NM_139148	Clca4	0.0097	0.5306
NM_147066	Olfr1389	0.0172	0.5301
AK029507	4921509H06Rik	0.0397	0.5289
XM_355772	LOC381774	0.0137	0.5286
NM_146454	Olfr1231	0.0140	0.5281
NM_172757	C030036P15Rik	0.0316	0.5259
NM_172447	A330021E22Rik	0.0440	0.5251
AK038639	A230052B14Rik	0.0397	0.5248
NM_130903	Cd209c	0.0050	0.5239
NM_023529	Ms4a10	0.0100	0.5232
	AW536289	0.0073	0.5189
NM_017401	Polm	0.0313	0.5184

AK035364	Ppfbp2	0.0266	0.5162
AK012014	2610312E17Rik	0.0062	0.5141
NM_177650	BC062650	0.0377	0.5132
NM_026009	2610204L23Rik	0.0476	0.5120
AK018642	9130022B02Rik	0.0281	0.5106
NM_197959	3000004C01Rik	0.0422	0.5097
XM_287936	LOC331000	0.0068	0.5091
XM_356004	LOC381968	0.0048	0.5088
NM_028737	4931406B18Rik	0.0084	0.5085
NM_146682	Olfr76	0.0408	0.5062
NM_145477	Alg12	0.0144	0.5060
NM_025415	Cks2	0.0321	0.5050
	4930542H20Rik	0.0077	0.5046
XM_193637	Osbp17	0.0282	0.5036
NM_178732	D430030K24Rik	0.0016	0.5027
AK047143	Nt5	0.0014	0.5011
AK082600	C230067O06Rik	0.0216	0.4999
NM_080288	Elmo1	0.0382	0.4996
NM_007424	Agc1	0.0039	0.4986
NM_021343	Spata5	0.0034	0.4972
	2900074L10Rik	0.0462	0.4967
NM_009013	Rad51ap1	0.0441	0.4967
	2310030A07Rik	0.0080	0.4964
XM_357759	LOC384638	0.0059	0.4955
XM_147710	LOC214305	0.0154	0.4944
NM_025289	Tbrg1	0.0465	0.4917
NM_026240	9130427A09Rik	0.0350	0.4912
NM_013769	Tjp3	0.0294	0.4911
NM_177057	E230015B07Rik	0.0159	0.4910
NM_176970	C230008H04Rik	0.0164	0.4905
XM_284961	LOC328083	0.0049	0.4894
NM_053247	Xlkd1	0.0149	0.4890
NM_026625	1700067P10Rik	0.0116	0.4889
XM_484126	9030624G23Rik	0.0394	0.4889
NM_008146	Golga3	0.0310	0.4875
	A330076C08Rik	0.0302	0.4872
XM_358089	LOC385151	0.0056	0.4869
XM_356918	LOC383199	0.0162	0.4855
AK052317	Btrc	0.0078	0.4851
XM_284144	Fzd9	0.0172	0.4850
NM_025390	Pop4	0.0019	0.4848
	A930028L21Rik	0.0493	0.4845
NM_172050	BC034097	0.0217	0.4837
NM_147119	Olfr632	0.0174	0.4833
NM_023670	Igf2bp3	0.0014	0.4831
NM_030709	Tmprss5	0.0346	0.4826
NM_146681	Olfr1424	0.0363	0.4825
NM_177092	D430026P16Rik	0.0284	0.4817
	2610002D03Rik	0.0121	0.4816
XM_136368	LOC226604	0.0188	0.4812
AK076970	4930580J09Rik	0.0121	0.4808
XM_136820	LOC227380	0.0023	0.4807
NM_028610	Dppa4	0.0169	0.4795
	4921534H16Rik	0.0272	0.4790
NM_146666	Olfr736	0.0089	0.4786
NM_007403	Adam8	0.0298	0.4783
	5430414B12Rik	0.0173	0.4779
XM_137067	LOC215948	0.0304	0.4778
	4930500F10Rik	0.0077	0.4774
	A630052E07Rik	0.0346	0.4772
	Tcp10	0.0142	0.4767
NM_170727	Scgb3a1	0.0069	0.4760
	4933428C19Rik	0.0064	0.4757
XM_137270	Kifc5c	0.0132	0.4751
NM_182927	D130060H24Rik	0.0048	0.4738
NM_207265	C230071H18Rik	0.0362	0.4738
NM_022313	Eral1	0.0105	0.4729
NM_175632	Oscar	0.0391	0.4721

NM_207560	Olfr924	0.0039	0.4717
		0.0061	0.4715
NM_007535	Bcl2a1c	0.0336	0.4707
NM_146864	Olfr768	0.0143	0.4703
NM_009948	Cpt1b	0.0189	0.4691
AK080263	A630004A15Rik	0.0012	0.4678
	4833446E11Rik	0.0076	0.4675
NM_013551	Hmbs	0.0077	0.4674
XM_128924	Rbm27	0.0044	0.4674
AK081413	C130015E15Rik	0.0257	0.4673
NM_178388	4930425N13Rik	0.0237	0.4672
AK015790	Mscp-pending	0.0172	0.4671
XM_145884	LOC233438	0.0406	0.4663
NM_172800	Sdk2	0.0340	0.4657
NM_176988	C030002J06Rik	0.0161	0.4647
AK046601	B430202K04Rik	0.0095	0.4642
XM_358502	LOC381087	0.0047	0.4641
AK049000	C230090G04Rik	0.0090	0.4632
		0.0446	0.4628
NM_144544	2210407C18Rik	0.0286	0.4624
	9230116N13Rik	0.0414	0.4620
NM_009446	Tuba3	0.0362	0.4617
	4931429P17Rik	0.0049	0.4617
XM_133556	2610034B18Rik	0.0293	0.4614
NM_175207	Ankrd9	0.0311	0.4612
NM_146653	Olfr435	0.0294	0.4607
	C430049A07Rik	0.0022	0.4607
AK019542	4921524P20Rik	0.0068	0.4605
NM_021291	Slc7a9	0.0264	0.4601
AK087777	E330019N15Rik	0.0379	0.4589
XM_147150	Krtap9-1	0.0060	0.4587
NM_153193	Hsd3b2	0.0059	0.4585
XM_137316	B130008E12Rik	0.0323	0.4585
NM_172839	Ccnj	0.0373	0.4580
XM_354854	1700110I01Rik	0.0386	0.4579
NM_021347	Gsdm1	0.0249	0.4579
AK030051	4932418B07Rik	0.0289	0.4576
XM_357940	LOC384920	0.0433	0.4576
NM_178688	Ablim1	0.0184	0.4574
	6030442H21Rik	0.0023	0.4568
NM_178778	A930041I02Rik	0.0493	0.4558
XM_126529	4933404O19Rik	0.0343	0.4552
NM_009342	Tctex1	0.0395	0.4549
XM_147495	LOC215723	0.0279	0.4549
AK078472	Lgtn	0.0351	0.4546
NM_009891	Chat	0.0426	0.4543
NM_009401	Tnfrsf8	0.0185	0.4541
XM_148426	4930432J16Rik	0.0448	0.4540
NM_011743	Zfp106	0.0215	0.4540
NM_013773	Tcl1b1	0.0375	0.4527
XM_132546	Ghrhr	0.0261	0.4516
NM_011538	Tbx6	0.0455	0.4516
XM_130180	LOC227631	0.0339	0.4516
	B930025P03Rik	0.0013	0.4515
NM_028747	0610012H03Rik	0.0187	0.4511
NM_013463	Gla	0.0432	0.4510
NM_180600	3010021M21Rik	0.0436	0.4498
NM_026186	1300013D05Rik	0.0057	0.4494
XM_357609	LOC384378	0.0007	0.4494
	Tex42	0.0226	0.4493
NM_008089	Gata1	0.0344	0.4491
		0.0106	0.4490
NM_033314	Slco2a1	0.0090	0.4470
XM_358440	LOC380842	0.0262	0.4468
	B930001P03Rik	0.0231	0.4467
NM_019474	Olfr156	0.0169	0.4466
NM_009209	Slc6a2	0.0049	0.4465
NM_146101	Habp2	0.0199	0.4460

NM_153076	Crygn	0.0184	0.4455
NM_008182	Gsta2	0.0113	0.4441
	2610035F20Rik	0.0260	0.4435
	1700041107Rik	0.0065	0.4430
AK051810	D230003C14Rik	0.0079	0.4422
NM_029322	1700024B05Rik	0.0050	0.4411
XM_203363	Slit3	0.0440	0.4402
NM_176845	Ddhd1	0.0066	0.4400
NM_020564	Sult5a1	0.0255	0.4386
NM_053079	Slc15a1	0.0147	0.4376
NM_009678	Ap1m2	0.0431	0.4373
AK037263	Ankra2	0.0410	0.4371
XM_112246	LOC230718	0.0319	0.4363
XM_149654	LOC231630	0.0269	0.4360
NM_181321	Tmc6	0.0095	0.4360
AK082716	C230094I18Rik	0.0305	0.4355
NM_173861	Ckt2	0.0302	0.4347
	4931440J10Rik	0.0264	0.4344
NM_147044	Olf679	0.0417	0.4341
	5033421C21Rik	0.0023	0.4336
XM_135902	4930447F04Rik	0.0038	0.4334
NM_007847	Defcr-rs2	0.0230	0.4331
		0.0121	0.4326
NM_030014	Hook1	0.0445	0.4325
NM_176945	6820443O06Rik	0.0365	0.4325
	1700031L13Rik	0.0004	0.4321
AK047468	B930067N07Rik	0.0151	0.4321
XM_128535	LOC224616	0.0040	0.4317
AK019816	4930578M22Rik	0.0118	0.4311
NM_177888	Zfp78	0.0377	0.4307
		0.0281	0.4306
	6330417K15Rik	0.0034	0.4305
NM_010011	Cyp4a10	0.0132	0.4291
XM_149022	9630037P07Rik	0.0374	0.4290
	C230034O21Rik	0.0203	0.4288
AK038322	A130095K04Rik	0.0166	0.4283
XM_136658	4930431J08Rik	0.0342	0.4281
		0.0007	0.4259
XM_126902	1110049B09Rik	0.0176	0.4255
	C130026E14	0.0242	0.4251
NM_178917	Arrdc3	0.0256	0.4248
	3110053B16Rik	0.0399	0.4246
NM_130866	Olf78	0.0002	0.4234
NM_008289	Hsd11b2	0.0283	0.4233
AK078992	9230103K20Rik	0.0391	0.4232
	3830408D07Rik	0.0426	0.4228
NM_201641	Ugt1a13	0.0085	0.4228
NM_147008	Olf393	0.0024	0.4227
AK034690	9430025C20Rik	0.0434	0.4218
NM_020017	Magea3	0.0216	0.4206
AK043424	Sh3d2a	0.0045	0.4206
NM_010410	Hcrt	0.0285	0.4203
AK020747	A430024H01Rik	0.0274	0.4202
NM_183161	BC019537	0.0407	0.4199
NM_080561	Ubce7ip1	0.0440	0.4198
NM_007950	Ereg	0.0369	0.4190
XM_141921	LOC212938	0.0474	0.4181
NM_145535	Sdcbp2	0.0147	0.4176
NM_175226	Rnf139	0.0039	0.4173
NM_027673	4933424F08Rik	0.0312	0.4172
NM_011775	Zp2	0.0156	0.4169
NM_153803	BC038479	0.0122	0.4167
BC023938		0.0315	0.4160
NM_028789	1300004G08Rik	0.0471	0.4157
NM_201611	H2-M10.6	0.0152	0.4155
AK042488	A630096C01Rik	0.0099	0.4155
NM_133851	Nusap1	0.0458	0.4146
NM_019500	Cldn14	0.0287	0.4145

	4933436F18Rik	0.0079	0.4145
XM_357388	LOC384049	0.0379	0.4142
		0.0463	0.4140
AK035294	1500031K13Rik	0.0256	0.4140
NM_028984	8430406107Rik	0.0390	0.4137
NM_009246	Serpina1d	0.0071	0.4135
	A330015K06Rik	0.0100	0.4134
XM_488824	C330011F03	0.0201	0.4133
NM_026288	4930483J18Rik	0.0335	0.4126
NM_145831	Dmrt2	0.0385	0.4118
	4930590G02Rik	0.0422	0.4116
	B230118I11Rik	0.0111	0.4108
NM_146374	Olfr368	0.0272	0.4106
NM_013531	Gnb4	0.0361	0.4104
	2310020J12Rik	0.0204	0.4102
NM_207143	Olfr594	0.0300	0.4101
NM_008318	lbsp	0.0346	0.4099
NM_029947	Prdm8	0.0350	0.4094
AK034139	9330159D24Rik	0.0142	0.4092
XM_355160	LOC381221	0.0258	0.4089
XM_356543	LOC382513	0.0290	0.4074
XM_111432	LOC193438	0.0172	0.4074
AK036437	9830108D13Rik	0.0039	0.4069
AK019209	Nifk	0.0375	0.4067
		0.0158	0.4065
NM_027945	1700007H16Rik	0.0167	0.4065
XM_146935	LOC235444	0.0011	0.4063
NM_008489	Lbp	0.0384	0.4060
XM_357957	LOC384951	0.0357	0.4054
	9430006E15Rik	0.0305	0.4052
NM_207558	Olfr750	0.0085	0.4050
NM_153086	9430022F06Rik	0.0365	0.4045
XM_129482	LOC226356	0.0008	0.4042
AK035309	9530013L07Rik	0.0208	0.4037
NM_010984	Olfr42	0.0220	0.4035
	A530083L21Rik	0.0450	0.4034
NM_146163	Myo1h	0.0345	0.4028
NM_177722	6030422M02Rik	0.0040	0.4024
XM_111879	LOC236750	0.0254	0.4024
NM_053127	Pcdhb2	0.0414	0.4022
NM_010662	Krt1-13	0.0266	0.4020
NM_007569	Btg1	0.0122	0.4019
XM_138722	LOC238726	0.0016	0.4018
XM_127883	lrg1	0.0180	0.4015
NM_145989	E130014J05Rik	0.0465	0.4011
NM_019453	Mefv	0.0023	0.4005
XM_359098	LOC386158	0.0075	0.4005
NM_175652	Hist4h4	0.0240	0.4002
XM_111348	Igh-V	0.0131	0.3994
XM_158111	LOC241235	0.0496	0.3992
XM_194453	LOC270152	0.0408	0.3986
NM_009755	Bmp1	0.0120	0.3984
NM_152808	1110028E10Rik	0.0487	0.3979
	2900036C06Rik	0.0418	0.3978
XM_358862	LOC385659	0.0079	0.3971
XM_130196	D730039F16Rik	0.0005	0.3967
XM_359077	LOC386119	0.0311	0.3959
NM_009264	Spr1a	0.0081	0.3959
NM_176835	2810451A06Rik	0.0279	0.3951
NM_207619	V1rd19	0.0090	0.3949
NM_146722	Olfr429	0.0463	0.3943
NM_175394	Wtap	0.0087	0.3934
NM_146735	Olfr483	0.0416	0.3933
NM_016900	Cav2	0.0249	0.3930
	5830460E08Rik	0.0402	0.3928
NM_146659	Olfr1136	0.0424	0.3925
XM_137325	LOC216397	0.0086	0.3905
BC053001	Arpp21	0.0458	0.3905

NM_052993	C1galt1	0.0424	0.3902
NM_009495	V2r9	0.0364	0.3902
AK078205	Taf15	0.0196	0.3901
AK048680	NK1R	0.0146	0.3898
NM_008434	Kcnq1	0.0393	0.3893
NM_016845	Acrbp	0.0106	0.3891
NM_146847	Olfr1090	0.0169	0.3890
NM_010583	Itk	0.0400	0.3887
	4933400B14Rik	0.0437	0.3885
NM_146532	Olfr1170	0.0101	0.3884
XM_145298	Gp6	0.0429	0.3882
NM_199028	AK122525	0.0183	0.3876
NM_133193	Il1rl2	0.0342	0.3875
NM_134237	V1rh12	0.0007	0.3874
		0.0183	0.3868
		0.0158	0.3865
NM_013866	Zfp385	0.0146	0.3863
NM_007541	Bglap1	0.0458	0.3859
NM_007751	Cox8b	0.0138	0.3850
NM_026056	Cap2	0.0400	0.3846
NM_008283	Hpvc2	0.0221	0.3845
XM_140109	LOC224989	0.0429	0.3840
NM_177596	6.72E+21	0.0153	0.3835
XM_146963	C530008M07Rik	0.0426	0.3830
	9930035N15Rik	0.0304	0.3830
AK039877	Ppp1r1c	0.0412	0.3823
NM_146547	Olfr771	0.0032	0.3820
NM_146973	Olfr1234	0.0413	0.3815
AK077267	5031438A03Rik	0.0272	0.3814
NM_146930	Olfr791	0.0187	0.3807
AK045285	B130055K04Rik	0.0001	0.3806
AK039532	A330055K22Rik	0.0199	0.3806
NM_026250	4930429M06Rik	0.0446	0.3805
	4930521O17Rik	0.0021	0.3802
NM_026293	4930540L03Rik	0.0051	0.3802
NM_008281	Hpn	0.0364	0.3799
NM_001001602	Dab2ip	0.0099	0.3794
		0.0257	0.3794
XM_358999	LOC385922	0.0147	0.3791
	4930579G18Rik	0.0277	0.3788
NM_011019	Osmr	0.0454	0.3787
NM_016712	Tmod4	0.0305	0.3787
NM_009383	Tial1	0.0362	0.3785
NM_009626	Adh7	0.0422	0.3780
	4833427F10Rik	0.0199	0.3779
NM_173442	Gcnt1	0.0444	0.3779
AK015350	4930440M09Rik	0.0003	0.3777
NM_022017	Trpv4	0.0433	0.3775
XM_359022	LOC385977	0.0370	0.3773
NM_024431	Morf4l1	0.0005	0.3767
	A930036K24Rik	0.0445	0.3766
XM_140950	LOC241322	0.0470	0.3766
NM_199024	Nol4	0.0460	0.3760
	A630074N13Rik	0.0194	0.3760
AF363724	Tcf7l2	0.0342	0.3758
NM_146117	BC004853	0.0442	0.3757
NM_010351	Gsc	0.0391	0.3754
AK048961		0.0116	0.3753
NM_008797	Pcx	0.0054	0.3749
NM_029409	5230400G24Rik	0.0345	0.3740
NM_146614	Olfr971	0.0483	0.3737
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	1700006D18Rik	0.0110	0.3726
XM_143984	D6Bwg1452e	0.0382	0.3722
NM_198405	9930027N05Rik	0.0046	0.3721
NM_009998	Cyp2b10	0.0424	0.3716
NM_023113	Aspa	0.0425	0.3715

	9930038K12Rik	0.0422	0.3709
NM_026423	2410018C20Rik	0.0435	0.3708
AK044970	B130016L16Rik	0.0036	0.3707
	Krt2-ps1	0.0310	0.3705
NM_020331	Gtf2ird1	0.0440	0.3702
XM_489105	G630008E18	0.0117	0.3701
XM_284969	LOC328091	0.0035	0.3699
AK054542	E330039I02Rik	0.0087	0.3696
NM_175249	2310020A21Rik	0.0392	0.3694
NM_010228	Flt1	0.0214	0.3691
	AW743872	0.0296	0.3683
AK051596	D130059C03Rik	0.0056	0.3681
	Hspb9	0.0126	0.3681
XM_135464	LOC236053	0.0253	0.3672
AK044747	A930039E02Rik	0.0353	0.3669
	2310015A10Rik	0.0126	0.3666
AK036384	9830002L24Rik	0.0168	0.3661
NM_133243	AY036118	0.0051	0.3658
AK085885		0.0197	0.3655
NM_177137	9630020G10Rik	0.0018	0.3654
NM_153115	Spag11	0.0127	0.3649
NM_027689	Rfx4	0.0031	0.3649
	Nedd10	0.0187	0.3635
	2810449C10Rik	0.0388	0.3632
XM_195441	LOC269409	0.0050	0.3627
	9430037O13Rik	0.0373	0.3624
XM_194070	AW540478	0.0276	0.3615
NM_018757	Nme6	0.0122	0.3612
NM_008645	Mug1	0.0128	0.3607
AK017853	Hif1a	0.0261	0.3607
XM_289715	LOC333621	0.0243	0.3603
NM_007659	Cdc2a	0.0389	0.3603
NM_031261	Fthl17	0.0154	0.3603
NM_146565	Olfcr3	0.0340	0.3602
NM_028060	Slc35f2	0.0258	0.3599
XM_358650	LOC381751	0.0082	0.3597
XM_146745	LOC244808	0.0328	0.3596
	8430428J23Rik	0.0391	0.3595
XM_358034	LOC385074	0.0363	0.3592
NM_178258	Il2ra2	0.0176	0.3588
XM_357120	LOC383555	0.0338	0.3584
XM_355223	LOC381282	0.0343	0.3583
		0.0259	0.3581
	Asf1a	0.0462	0.3579
		0.0450	0.3575
XM_357772	LOC384661	0.0278	0.3571
NM_008781	Pax3	0.0452	0.3568
XM_488999	A530017F20	0.0348	0.3565
NR_001463	Xist	0.0228	0.3563
	B930046M08Rik	0.0298	0.3562
NM_023750	Zfp84	0.0089	0.3554
NM_146062	1600022A19Rik	0.0238	0.3553
NM_153196	Rbks	0.0184	0.3553
AK076802	4930471I01Rik	0.0100	0.3551
XM_144634	1300006M19Rik	0.0202	0.3549
NM_199306	Wdtdc1	0.0400	0.3547
XM_287668	LOC330479	0.0329	0.3538
NM_172827	Lnpep	0.0476	0.3534
NM_146446	Olfcr215	0.0314	0.3532
XM_484853	2810038L03Rik	0.0122	0.3525
XM_127694	LOC219029	0.0138	0.3518
NM_007400	Adam12	0.0347	0.3518
NM_026394	1110055J05Rik	0.0242	0.3517
XM_357615	LOC384387	0.0374	0.3515
XM_134800	1810046K07Rik	0.0076	0.3509
XM_133805	1700007B13Rik	0.0349	0.3509
XM_484024	Rapgef6	0.0181	0.3503
NM_145157	Defb19	0.0395	0.3500

NM_178081	2210010L05Rik	0.0081	0.3500
NM_016903	Esd	0.0463	0.3499
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XM_355665	LOC381689	0.0421	0.3495
NM_138314	Nme7	0.0466	0.3495
XM_356375	V2r3	0.0196	0.3493
AK036443	Ache	0.0344	0.3479
AK038414	A230005M18Rik	0.0300	0.3478
		0.0075	0.3478
XM_359369	LOC386520	0.0458	0.3471
XM_484393	Chdc1	0.0276	0.3469
NM_173024	A030003A19Rik	0.0229	0.3468
NM_009350	Tenr	0.0444	0.3464
XM_127223	4930448F12Rik	0.0500	0.3457
NM_007407	Adcyap1r1	0.0437	0.3451
	5330417H12Rik	0.0447	0.3447
NM_146306	Olf1r518	0.0191	0.3446
NM_173864	C1sb	0.0099	0.3444
NM_010479	Hspa1a	0.0328	0.3438
	2810049E08Rik	0.0445	0.3438
NM_212485	Kb36	0.0460	0.3428
NM_175219	4930565N07Rik	0.0435	0.3427
NM_144852	Slc7a4	0.0257	0.3425
NM_010735	Lta	0.0298	0.3420
XM_147568	LOC217071	0.0195	0.3418
XM_204824	LOC278666	0.0280	0.3417
XM_135951	LOC236874	0.0468	0.3417
NM_177631	BC048502	0.0258	0.3414
NM_010628	Kif9	0.0002	0.3413
AK019661	4930500E24Rik	0.0013	0.3412
BC030943		0.0404	0.3411
NM_020490	Ltb4r2	0.0477	0.3405
NM_175535	Arhgap20	0.0400	0.3404
NM_008456	Klk5	0.0315	0.3403
XM_132633	Igk-C	0.0322	0.3399
XM_137316	B130008E12Rik	0.0148	0.3398
AK015403	4930447F20Rik	0.0040	0.3390
XM_355522	LOC381556	0.0307	0.3390
	D130048F08Rik	0.0410	0.3389
NM_178773	Tmem16d	0.0213	0.3386
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XM_125864	Slc35e3	0.0324	0.3384
	1700021N20Rik	0.0350	0.3377
XM_357595	LOC384356	0.0151	0.3377
NM_172518	Fbxo42	0.0387	0.3377
NM_023879	Rpgrip1	0.0174	0.3377
AK083057	Trim2	0.0303	0.3376
XM_193497	LOC270498	0.0310	0.3375
NM_147108	Olf1r979	0.0463	0.3375
NM_058212	Dpf3	0.0246	0.3373
NM_145635	BC054059	0.0466	0.3371
NM_026148	Lims1	0.0044	0.3364
NM_007987	Tnfrsf6	0.0347	0.3361
XM_357395	LOC384062	0.0370	0.3358
AK032580	6430601O08Rik	0.0255	0.3354
XM_358058	LOC385109	0.0215	0.3352
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XM_205477	LOC279260	0.0331	0.3339
	1810073G21Rik	0.0129	0.3338
NM_183119	2410141K09Rik	0.0054	0.3334
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NM_008943	Psen1	0.0263	0.3332
XM_357147	LOC383601	0.0379	0.3329
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	2410133F24Rik	0.0299	0.3323
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NM_026222	D3ErtD789e	0.0106	0.3307
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NM_010267	Gdap1	0.0252	0.3294
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NM_145819	Zfp98	0.0485	0.3286
	A430104F18Rik	0.0342	0.3285
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XM_287481	4930458A03Rik	0.0153	0.3283
XM_357097	LOC383503	0.0225	0.3278
NM_146450	Olfr1314	0.0472	0.3275
XM_124978	LOC233859	0.0340	0.3267
	2900011F02Rik	0.0284	0.3260
		0.0185	0.3259
		0.0057	0.3255
	1700120J03Rik	0.0126	0.3252
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	B130064M09Rik	0.0460	0.3242
	A430102O06Rik	0.0457	0.3234
XM_356689	LOC382810	0.0350	0.3232
AK081094	B930085E10Rik	0.0281	0.3229
NM_198028	Serpib10	0.0259	0.3226
XM_145500	1110003H10Rik	0.0019	0.3225
NM_013880	Plcl2	0.0100	0.3224
NM_146903	Olfr871	0.0168	0.3214
AK020827	A930008A22Rik	0.0382	0.3214
XM_139787	LOC210465	0.0355	0.3213
XM_136210	Ysk4	0.0363	0.3211
NM_133678	2410004C24Rik	0.0198	0.3206
NM_019400	Rabep1	0.0386	0.3202
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	1810059C17Rik	0.0075	0.3195
XM_127977	2310042E16Rik	0.0095	0.3182
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	Al314760	0.0143	0.3177
	1810007I06Rik	0.0123	0.3175
XM_139937	LOC224763	0.0133	0.3170
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XM_358125	LOC385217	0.0028	0.3161
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	A630089K24Rik	0.0445	0.3156
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	6230415J03Rik	0.0343	0.3136
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	1700057D03Rik	0.0463	0.3123
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AK035919	9630018D19Rik	0.0426	0.3109
NM_134221	V1ri4	0.0370	0.3104
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NM_133183	Cacng6	0.0383	0.3091
AK008771	Semcap2-pending	0.0136	0.3089
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XM_357442	LOC384129	0.0127	0.3083

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NM_175086	Agtr1b	0.0313	0.3075
AK036679	9830160N02Rik	0.0142	0.3075
AK015161	4930417P05Rik	0.0320	0.3074
XM_355372	LOC381410	0.0246	0.3074
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	5830431N17Rik	0.0463	0.3066
XM_132137	2310011G06Rik	0.0436	0.3064
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XM_489103	A230057G18Rik	0.0142	0.3063
NM_011234	Rad51	0.0254	0.3061
NM_013508	Elk3	0.0046	0.3059
AK081722	C130071N01Rik	0.0040	0.3059
NM_025759	Speer4d	0.0250	0.3055
	C730027H18Rik	0.0431	0.3054
	2310068J16Rik	0.0451	0.3053
AK043370	A730089E14Rik	0.0336	0.3047
XM_203312	Stx11	0.0239	0.3044
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		0.0456	0.3026
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		0.0294	0.3021
	1110001M07Rik	0.0433	0.3019
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NM_178683	Depdc1b	0.0485	0.3008
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XM_132552	BC052360	0.0382	0.3006
XM_354858	LOC380949	0.0200	0.3004
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XM_355641	LOC381671	0.0322	0.2997
NM_147016	Olfr1049	0.0147	0.2997
NM_177781	Anktm1	0.0173	0.2992
NM_207155	Olfr117	0.0460	0.2988
XM_283480	A230048G03Rik	0.0420	0.2983
AK037425	A130017M23Rik	0.0108	0.2981
AK086067	D930002C23Rik	0.0272	0.2979
		0.0435	0.2977
NM_206897	Olfr6	0.0037	0.2976
AK051985	D230030L22Rik	0.0041	0.2975
	1110053K06Rik	0.0305	0.2972
XM_359216	LOC386413	0.0201	0.2965
NM_172846	A230079K17Rik	0.0380	0.2959
XM_357814	LOC384719	0.0295	0.2959
		0.0113	0.2958
	4930452L02Rik	0.0223	0.2955
NM_026192	1810009B06Rik	0.0228	0.2951
NM_007663	Cdh16	0.0391	0.2948
NM_080852	Slc7a12	0.0469	0.2947
AK031551	Cappa2	0.0433	0.2946
NM_198646	LOC381062	0.0110	0.2942
XM_111244	D030068L24	0.0142	0.2938
NM_177881	9430029A11Rik	0.0286	0.2934
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	F830004D09Rik	0.0332	0.2927
NM_080845	Ftcd	0.0331	0.2924
XM_110863	Utp14b	0.0158	0.2923
XM_485253	1110032F04Rik	0.0191	0.2922
NM_023735	Actr3	0.0367	0.2917
XM_357757	LOC384635	0.0336	0.2907
NM_021542	Kcnk5	0.0367	0.2907
AK049346	C330026G04Rik	0.0452	0.2906
NM_134033	BC018601	0.0461	0.2906
NM_177826	Thada	0.0283	0.2903
AK031231	5930434A13Rik	0.0299	0.2902
		0.0189	0.2899

NM_197944	Hsh2d	0.0466	0.2898
	4930482G09Rik	0.0224	0.2894
XM_356346	1700031F05Rik	0.0481	0.2893
NM_134069	Slc17a3	0.0427	0.2891
	4930532I03Rik	0.0012	0.2888
NM_015780	Cfhl1	0.0479	0.2886
XM_354644	LOC380730	0.0438	0.2878
XM_145901	LOC233452	0.0486	0.2878
NM_029868	5330440M15Rik	0.0493	0.2876
AK081911	C130086K02Rik	0.0207	0.2874
NM_022985	3110005P07Rik	0.0326	0.2869
AK077262	5031431M05Rik	0.0454	0.2869
NM_146525	Olfr847	0.0141	0.2868
NM_198608	Aarsl	0.0419	0.2866
NM_176967	A430072C10Rik	0.0491	0.2866
NM_007526	Barx1	0.0052	0.2863
NM_007843	Defb1	0.0312	0.2860
	Csm2	0.0004	0.2859
XM_359185	LOC386361	0.0365	0.2858
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NM_172882	Wdfy3	0.0137	0.2854
	1700065F09Rik	0.0309	0.2850
NM_177592	AW547186	0.0449	0.2845
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NM_022982	Rtn4r	0.0319	0.2831
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NM_207252	E130006D01Rik	0.0422	0.2821
	A130009E19Rik	0.0407	0.2808
XM_484284	5430425J12Rik	0.0201	0.2806
NM_177270	Cdk12	0.0440	0.2797
AK028218	Top2a	0.0415	0.2794
NM_146350	Olfr1123	0.0242	0.2786
XM_284079	4921525L17Rik	0.0329	0.2780
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NM_173379	Leprel1	0.0252	0.2777
NM_026321	2310044D20Rik	0.0196	0.2776
	5830407F19Rik	0.0380	0.2771
	A530047J11Rik	0.0251	0.2767
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NM_153536	B130050I23Rik	0.0210	0.2757
XM_355566	LOC381610	0.0434	0.2749
AK087501	Eefsec	0.0263	0.2732
XM_359310	LOC386473	0.0374	0.2732
AK030233	4933426M11Rik	0.0455	0.2730
NM_175198	1700058C01Rik	0.0499	0.2730
NM_030704	Hspb8	0.0425	0.2728
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XM_284853	LOC331595	0.0334	0.2726
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NM_177223	D130079A08Rik	0.0390	0.2678
AK049510	Mgea5	0.0119	0.2678
AK032977	Wnt5a	0.0242	0.2663
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AK048657	Lpin2	0.0265	0.2652
AK087122	E030028L09Rik	0.0392	0.2640
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	4930535116Rik	0.0451	-0.2683
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NM_146726	Olfr514	0.0403	-0.2708
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AK013798	Syt1	0.0408	-0.2725
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	4930520K02Rik	0.0079	-0.2846
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XM_356818	LOC383043	0.0431	-0.2879
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NM_030743	Zfp313	0.0209	-0.2881
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XM_193738	LOC268686	0.0096	-0.2903
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NM_010913	Nfya	0.0112	-0.2917
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	1700093E11Rik	0.0469	-0.2981
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XM_358607	LOC381523	0.0166	-0.3005
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	3300002A11Rik	0.0096	-0.3037

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AK090393	Tgfr2	0.0111	-0.3092
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NM_177343	Camk1d	0.0472	-0.3096
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AK031440	Zfp106	0.0046	-0.3112
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	2310069G16Rik	0.0173	-0.3145
AK053476	Plat	0.0282	-0.3148
	4930520K10Rik	0.0387	-0.3149
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AK084641	Rab6ip1	0.0354	-0.3172
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	2600014E21Rik	0.0383	-0.3202
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		0.0486	-0.3219
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XM_143960	Kcnq4	0.0186	-0.3296
XM_286372	LOC328015	0.0310	-0.3299
AK077627	Nek2	0.0424	-0.3300
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NM_172290	Hnt	0.0313	-0.3377
NM_026147	Rps20	0.0386	-0.3384
NM_011224	Pygm	0.0129	-0.3398
XM_146948	Unc13c	0.0076	-0.3400
XM_358981	LOC385877	0.0485	-0.3406
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	9430029E18Rik	0.0108	-0.3423
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	4930544L18Rik	0.0407	-0.3585
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XM_359270	LOC386449	0.0036	-0.4670
NM_172421	Asxl2	0.0091	-0.4670

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XM_150373	LOC215175	0.0013	-0.5233
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XM_135705	LOC236518	0.0036	-0.5386
NM_172937	Shprh	0.0254	-0.5412
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	1700121C10Rik	0.0050	-0.5417
NM_053170	Trim33	0.0045	-0.5430
NM_024185	2310047O13Rik	0.0097	-0.5460
NM_207667	Fgf14	0.0265	-0.5467
NM_018744	Sema6a	0.0076	-0.5467
NM_173404	Bmp3	0.0026	-0.5474
XM_138431	Mtr	0.0089	-0.5480
AK083172	Rab3ip2-pending	0.0201	-0.5495
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AK087758	Grb14	0.0346	-0.5510
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XM_132282	Acacb	0.0124	-0.5540
XM_147946	9130001M19Rik	0.0138	-0.5549
NM_175381	2700081O15Rik	0.0305	-0.5553
XM_357693	LOC384528	0.0012	-0.5564
NM_026825	Lrrc16	0.0277	-0.5572
NM_010389	H2-Ob	0.0010	-0.5579
AK047436	B930062N16Rik	0.0220	-0.5580
NM_177888	Zfp78	0.0228	-0.5584
NM_177044	9330119M13Rik	0.0024	-0.5595
NM_011331	Ccl12	0.0403	-0.5598
		0.0124	-0.5626
NM_170701	Tnfrsf5	0.0137	-0.5627
NM_010125	Elf5	0.0004	-0.5629
XM_131166		0.0133	-0.5647
NM_175455	6430502M16Rik	0.0278	-0.5651
NM_030680	Rent1	0.0218	-0.5656
XM_131741	9430088F20	0.0411	-0.5684
NM_019408	Nfkb2	0.0278	-0.5707
NM_020273	Gmeb1	0.0125	-0.5719
NM_177662	Ctso	0.0096	-0.5727
NM_178697	Al586120	0.0090	-0.5733

XM_357047	LOC383428	0.0440	-0.5745
NM_175546	Wdfy2	0.0046	-0.5761
NM_025965	Ssr1	0.0076	-0.5790
XM_146909	LOC235316	0.0111	-0.5792
NM_033321	P2rx5	0.0172	-0.5797
XM_204250	LOC277925	0.0111	-0.5798
NM_172786	E230031K19	0.0354	-0.5803
NM_146447	Oifr1309	0.0142	-0.5813
XM_129335	2700078E11Rik	0.0195	-0.5816
NM_177896	LOC330599	0.0381	-0.5838
	8230401C20Rik	0.0168	-0.5879
XM_143297	LOC214488	0.0071	-0.5892
	1810012N18Rik	0.0161	-0.5900
NM_025831	1300014I06Rik	0.0107	-0.5903
AK035910	Aspa	0.0222	-0.5906
AK084896	D430006M22Rik	0.0188	-0.5929
NM_178929	Kazald1	0.0113	-0.5932
NM_028122	Slc14a1	0.0280	-0.5937
XM_134502	Tradd	0.0062	-0.5941
NM_019877	Copz2	0.0116	-0.5942
	4930403N07Rik	0.0375	-0.5949
NM_182999	Rnf20	0.0114	-0.5959
NM_134253	Bnpl	0.0383	-0.5973
XM_489059	2610028E06Rik	0.0353	-0.5977
NM_027541	Prpf3	0.0016	-0.6000
NM_007490	Art2a	0.0046	-0.6001
NM_181821	Hcfc1r1	0.0124	-0.6014
NM_019790	Tmeff2	0.0272	-0.6021
NM_183199	E430004F17Rik	0.0020	-0.6027
NM_019561	Ensa	0.0033	-0.6034
NM_022983	Edg7	0.0417	-0.6034
NM_148937	Plcd4	0.0132	-0.6054
NM_030725	Syt13	0.0410	-0.6077
XM_357833	LOC384739	0.0489	-0.6086
NM_026183	1300013J15Rik	0.0236	-0.6093
NM_172743	Plekha7	0.0091	-0.6108
NM_054078	Baz2a	0.0285	-0.6109
NM_146065	Atf7	0.0051	-0.6134
NM_008357	Ii15	0.0144	-0.6140
NM_021720	Donson	0.0053	-0.6158
AK013515	Man1b	0.0310	-0.6169
	D530008I23	0.0354	-0.6174
NM_008905	Ppfibp2	0.0383	-0.6176
NM_009547	Zfp161	0.0023	-0.6207
NM_016718	Ninj2	0.0472	-0.6218
XM_355964	LOC381940	0.0210	-0.6261
NM_178925	Nsun3	0.0091	-0.6265
NM_133188	Dazap1	0.0428	-0.6305
NM_182808	C630007B19Rik	0.0349	-0.6319
XM_282904	C030003D03Rik	0.0282	-0.6388
NM_010654	Klrd1	0.0114	-0.6418
NM_025475	2410007P03Rik	0.0063	-0.6431
NM_153163	Cadps2	0.0293	-0.6435
NM_009822	Cbfa2t1h	0.0079	-0.6473
NM_010771	Matr3	0.0136	-0.6480
XM_203738	Pvrl4	0.0244	-0.6491
NM_144805	9030407H20Rik	0.0491	-0.6516
	4930540M03Rik	0.0063	-0.6520
NM_026942	Stoml1	0.0115	-0.6549
NM_025282	Mef2c	0.0177	-0.6559
NM_172205	Sbsn	0.0383	-0.6563
NM_009170	Shh	0.0267	-0.6577
NM_134125	Trip10	0.0487	-0.6582
NM_148942	Serpib6c	0.0280	-0.6596
NM_183086	Mrps10	0.0035	-0.6601
XM_147132	Kbtbd5	0.0447	-0.6611
NM_011161	Mapk11	0.0156	-0.6623
NM_008583	Men1	0.0145	-0.6626

NM_025815	Cpne8	0.0134	-0.6643
NM_009332	Tcf3	0.0327	-0.6649
NM_025677	5730449L18Rik	0.0398	-0.6658
	B830008M09Rik	0.0258	-0.6679
NM_012017	Zfp346	0.0085	-0.6732
NM_145583	Frag1	0.0069	-0.6832
NM_175443	Etnk2	0.0128	-0.6849
NM_021288	Tyms	0.0255	-0.6937
NM_031172	Trim17	0.0329	-0.6951
XM_357150	LOC383607	0.0013	-0.6954
	4930447I22Rik	0.0274	-0.7015
NM_146089	Ccdc5	0.0442	-0.7146
NM_011110	Pla2g5	0.0262	-0.7202
		0.0099	-0.7506
NM_011738	Ywhah	0.0108	-0.7732
NM_013750	Phlda3	0.0353	-0.7833
NM_146654	Olfra438	0.0058	-0.7953
NM_030253	BC003281	0.0070	-0.7972
AK082529	C230059I24Rik	0.0253	-0.8018
NM_153561	Nudt6	0.0474	-0.8341
NM_023045	Xpo7	0.0015	-0.8707
NM_026728	D4Ertd765e	0.0134	-0.8981
	A130072A22Rik	0.0148	-0.9160
NM_009613	Adam11	0.0040	-0.9305
NM_007745	Cort	0.0419	-0.9583
NM_145611	Ankrd25	0.0000	-0.9634
NM_033269	Chrm3	0.0445	-1.0020
	5830411K21Rik	0.0419	-1.4106

Supplemental Table S4:
KO Saline vs. WT Saline significantly regulated genes

ACCESSION	SYMBOL	p-value	log2
NM_013637	Prm1	0.0000	7.4125
		0.0000	5.8857
		0.0000	3.3923
AK036131	9630038C08Rik	0.0078	2.3325
NM_198013	Cuedc1	0.0037	1.6918
NM_080853	Slc17a6	0.0108	1.5292
NM_009625	Adcyap1	0.0246	1.2870
NM_009625	Adcyap1	0.0088	1.1562
NM_198629	LOC328644	0.0106	1.1385
NM_007863	Mpp3	0.0000	1.0718
	D130054E02Rik	0.0242	1.0589
AK031938	6330503H08Rik	0.0085	1.0420
NM_170673	A730016F12Rik	0.0070	0.9959
NM_021288	Tyms	0.0093	0.9674
NM_178406	Gpr153	0.0429	0.9608
AK038411	A230005G17Rik	0.0018	0.9346
NM_181821	Hcfc1r1	0.0002	0.9254
AK080730	A930024F09Rik	0.0013	0.8952
XM_147132	Kbtbd5	0.0214	0.8733
NM_199316	4922501C03Rik	0.0117	0.8713
NM_027865	Tmem25	0.0018	0.8657
NM_178413	BC051244	0.0204	0.8490
	A130072A22Rik	0.0048	0.8457
NM_007863	Mpp3	0.0000	0.8389
	C030044O21Rik	0.0044	0.8299
XM_129326	Gucy2g	0.0467	0.8262
NM_007428	Agt	0.0160	0.8174
NM_053089	Narg1	0.0018	0.8095
NM_139298	Wnt9a	0.0314	0.8080
NM_011331	Ccl12	0.0330	0.7991
NM_010654	Klrd1	0.0066	0.7847
XM_358997	LOC385917	0.0052	0.7774
XM_354697	LOC380787	0.0418	0.7738
NM_144945	Lgi2	0.0124	0.7661
NM_019561	Ensa	0.0401	0.7624
NM_178688	Ablim1	0.0049	0.7588
NM_017380	9-Sep	0.0346	0.7559
NM_012017	Zfp346	0.0405	0.7536
NM_025492	1700020L24Rik	0.0104	0.7476
AK005281	Pkib	0.0398	0.7385
NM_010836	Msx3	0.0420	0.7362
NM_024435	Nts	0.0034	0.7296
NM_023045	Xpo7	0.0106	0.7280
NM_025282	Mef2c	0.0062	0.7230
NM_031161	Cck	0.0366	0.7203
NM_028807	1200009I06Rik	0.0021	0.7187
NM_178210	Hist1h4j	0.0063	0.7107
AK029892		0.0446	0.7055
NM_007426	Agpt2	0.0100	0.7040
NM_011935	Esrrg	0.0150	0.6960
NM_007392	Acta2	0.0105	0.6926
NM_010100	Edar	0.0465	0.6887
NM_175095	Commd2	0.0268	0.6836
NM_012017	Zfp346	0.0069	0.6829
NM_028334	Nup37	0.0068	0.6771
NM_021716	Figf	0.0391	0.6753
NM_021882	Si	0.0167	0.6749
NM_175032	A830023L05	0.0305	0.6728
NM_007417	Adra2a	0.0043	0.6679
NM_025991	Kbtbd4	0.0124	0.6662
NM_009822	Cbfa2t1h	0.0118	0.6659
NM_010483	Htr5b	0.0095	0.6655
NM_015743	Nr4a3	0.0496	0.6615
NM_010791	Meox1	0.0314	0.6583
NM_009089	Polr2a	0.0348	0.6491
XM_128725	Ndufv2	0.0130	0.6485
XM_129445	Fnbp2	0.0363	0.6484

AK078614	Ptprk	0.0036	0.6474
NM_015829	Slc25a13	0.0057	0.6460
NM_172947	2600001B17Rik	0.0075	0.6448
AK080817	B230312E02Rik	0.0083	0.6433
NM_010445	Hmx1	0.0289	0.6422
NM_172818	1700019P01Rik	0.0446	0.6361
NM_007392	Acta2	0.0405	0.6354
NM_138313	Bmf	0.0042	0.6350
		0.0036	0.6343
	Sla2	0.0015	0.6332
NM_013645	Pvalb	0.0240	0.6313
	2610039C10Rik	0.0059	0.6308
NM_153392	4922503N01Rik	0.0006	0.6274
NM_153163	Cadps2	0.0467	0.6263
XM_135705	LOC236518	0.0131	0.6225
XM_111953	LOC212952	0.0008	0.6216
NM_029659	1700011C14Rik	0.0176	0.6187
	1110048P06Rik	0.0232	0.6181
NM_007408	Afp	0.0261	0.6176
NM_134248	Havcr1	0.0019	0.6153
NM_145577	BC023179	0.0064	0.6133
NM_183274	0610041G09Rik	0.0233	0.6102
NM_019825	Ncoa6	0.0133	0.6074
AK082529	C230059I24Rik	0.0347	0.6042
NM_009860	Cdc25c	0.0484	0.6038
NM_145367	Txndc5	0.0041	0.6023
NM_023326	Bmyc	0.0318	0.6007
AK084985	D430021L16Rik	0.0384	0.5943
XM_489059	2610028E06Rik	0.0485	0.5938
NM_008775	Pafah1b2	0.0279	0.5928
NM_026212	Agpat2	0.0027	0.5914
	5930430L01Rik	0.0041	0.5912
NM_009171	Shmt1	0.0176	0.5911
NM_134111	Eaf2	0.0345	0.5900
NM_025574	2610022G08Rik	0.0136	0.5881
NM_146737	Olfra494	0.0103	0.5878
AK042682	A730015C16Rik	0.0174	0.5864
BC029209	D11Lgp2e	0.0027	0.5862
NM_009171	Shmt1	0.0374	0.5860
NM_008983	Ptprk	0.0280	0.5856
AK037143	A030001A03Rik	0.0239	0.5833
NM_178887	Fibcd1	0.0003	0.5805
	A930005G04Rik	0.0038	0.5788
NM_008815	Etv4	0.0030	0.5772
NM_153541	Zbtb8	0.0094	0.5772
NM_198959	Hcrr1	0.0060	0.5758
NM_178685	Pcdh20	0.0260	0.5753
NM_011585	Tia1	0.0224	0.5738
AK029353	4833403D03Rik	0.0048	0.5731
NM_146076	Slc26a8	0.0289	0.5707
AK010060	Araf	0.0288	0.5706
NM_019391	Lsp1	0.0006	0.5704
XM_484092	1500005I02Rik	0.0002	0.5691
NM_011703	Vipr1	0.0494	0.5690
NM_175221	4930599N23Rik	0.0114	0.5686
NM_080708	Bmp2k	0.0498	0.5686
NM_021374	Rgs20	0.0307	0.5657
AK082956	Gtar-pending	0.0091	0.5638
AK012112	2610511G22Rik	0.0281	0.5637
NM_023233	Trim13	0.0083	0.5633
XM_356984	LOC383324	0.0158	0.5632
NM_201256	Eif4ebp3	0.0228	0.5611
AK011482		0.0219	0.5611
XM_110498	C77080	0.0342	0.5609
XM_357657	LOC384455	0.0214	0.5588
NM_170701	Tnfrsf5	0.0327	0.5584
NM_145622	Zfp71-rs1	0.0149	0.5577
NM_153783	Paox	0.0097	0.5575

	9430099O15Rik	0.0464	0.5572
NM_133656	Crk	0.0192	0.5553
XM_127674	3110001K24Rik	0.0313	0.5552
	C030014I23Rik	0.0392	0.5540
XM_195002	LOC271374	0.0007	0.5540
NM_027903	1300018L09Rik	0.0300	0.5528
NM_145611	Ankrd25	0.0043	0.5518
NM_013474	Apoa2	0.0084	0.5518
NM_007633	Ccne1	0.0319	0.5515
AK034131		0.0047	0.5513
	9430095M17Rik	0.0048	0.5510
		0.0285	0.5493
NM_178907	Mapkapk3	0.0413	0.5485
AK090339	Lhx6	0.0192	0.5476
XM_145254	A630082K20Rik	0.0270	0.5472
	E530011L22Rik	0.0361	0.5440
NM_010488	Elavl4	0.0047	0.5438
	A130001G05Rik	0.0270	0.5436
NM_019737	B4galt6	0.0304	0.5433
NM_145922	Kcnc4	0.0287	0.5419
NM_175105	Aqp11	0.0490	0.5419
XM_131741	9430088F20	0.0063	0.5413
XM_141539	LOC228787	0.0042	0.5408
NM_009193	Slbp	0.0326	0.5392
XM_127565	Flnb	0.0030	0.5391
XM_133187	6820402O20Rik	0.0102	0.5386
NM_008351	Il12a	0.0432	0.5382
XM_144574	LOC231736	0.0252	0.5379
NM_008023	Foxb2	0.0448	0.5372
	4933403O03Rik	0.0446	0.5371
	2010203O03Rik	0.0262	0.5369
XM_128169	1810041L15Rik	0.0347	0.5364
NM_199019	4933407P14Rik	0.0183	0.5363
NM_009860	Cdc25c	0.0011	0.5358
	C030014I23Rik	0.0363	0.5350
NM_013666	Siat8e	0.0252	0.5345
NM_146030	BC020025	0.0006	0.5344
NM_015790	Icosl	0.0425	0.5329
NM_027031	1700007I06Rik	0.0423	0.5326
NM_177791	4922504H04Rik	0.0132	0.5307
NM_022986	Irak1bp1	0.0301	0.5305
NM_022983	Edg7	0.0236	0.5287
NM_025487	1700011A15Rik	0.0306	0.5283
NM_144945	Lgi2	0.0020	0.5281
XM_358193	LOC385323	0.0169	0.5278
NM_010510	Ifnb1	0.0081	0.5269
NM_023831	1500035H01Rik	0.0009	0.5269
AK076457	4833406G21Rik	0.0436	0.5262
AK054432	E330024P20Rik	0.0268	0.5255
AK011587	2610028F08Rik	0.0280	0.5255
XM_194622	B430306D02Rik	0.0451	0.5245
XM_203404	1700091G21Rik	0.0086	0.5237
XM_354659	LOC380745	0.0488	0.5227
BC063105	Cnot2	0.0063	0.5210
NM_027881	Osbpl3	0.0009	0.5205
NM_177099	Ebaf	0.0298	0.5196
NM_010555	Il1r2	0.0189	0.5196
	1700122E12Rik	0.0002	0.5189
NM_175024	G630049C14Rik	0.0011	0.5184
NM_177081	Ptpn7	0.0274	0.5175
		0.0112	0.5164
XM_359276	D930038M13Rik	0.0015	0.5164
NM_175386	2810489O06Rik	0.0470	0.5162
AK036211	Ephb1	0.0138	0.5160
AK077830	Neo1	0.0265	0.5152
	4930540M03Rik	0.0101	0.5151
NM_025965	Ssr1	0.0249	0.5149
XM_127656	D14Abb1e	0.0400	0.5139

NM_028034	2410004F06Rik	0.0453	0.5135
NM_177274	Negr1	0.0198	0.5133
NM_007482	Arg1	0.0016	0.5127
	1110054M08Rik	0.0302	0.5117
NM_008880	Plscr2	0.0291	0.5102
AK083177	C630023P03Rik	0.0160	0.5099
	A930027G11Rik	0.0094	0.5098
AK016737	4933408G09Rik	0.0074	0.5095
NM_177134	9430077A04Rik	0.0445	0.5081
NM_030699	Ntng1	0.0028	0.5080
AK089324	F730005M08Rik	0.0426	0.5079
XM_194962	LOC268812	0.0053	0.5064
AK011092	2510042H12Rik	0.0458	0.5052
XM_134645	4930553M18Rik	0.0479	0.5051
NM_199309	Zdhhc19	0.0006	0.5049
NM_178801	6030446N20Rik	0.0340	0.5038
AK011712	Fgf12	0.0164	0.5034
NM_198831	Mrpl48	0.0127	0.5031
AK050075	C730010K05Rik	0.0105	0.5001
NM_198408	Crhbp	0.0066	0.4990
	1700064N11Rik	0.0495	0.4984
NM_021474	Efemp2	0.0010	0.4960
XM_358499	LOC381080	0.0101	0.4960
NM_026092	Lyzl1	0.0302	0.4954
NM_010309	Gnas	0.0018	0.4929
NM_172769	Sc5d	0.0127	0.4924
NM_026143	3732409C05Rik	0.0230	0.4917
NM_033587	Pcdhga4	0.0340	0.4912
	4930520K02Rik	0.0013	0.4911
NM_148929	Slc9a8	0.0060	0.4905
NM_177086	9630048M01Rik	0.0012	0.4901
NM_010751	Mad	0.0158	0.4896
NM_009319	Tarbp2	0.0209	0.4896
NM_133790	R74862	0.0277	0.4882
	1700001D01Rik	0.0008	0.4878
NM_015804	Atp11a	0.0140	0.4873
NM_080437	Celsr3	0.0121	0.4860
NM_178654	Pkn2	0.0163	0.4850
XM_357484	LOC384201	0.0425	0.4848
XM_139533	A630029G22Rik	0.0465	0.4838
NM_026443	1700020C11Rik	0.0175	0.4833
NM_011642	Trp73	0.0193	0.4823
		0.0426	0.4814
	A530001N23Rik	0.0248	0.4793
NM_008005	Fgf18	0.0432	0.4782
NM_023813	Camk2d	0.0072	0.4777
XM_129721	Slc9a2	0.0046	0.4773
XM_484710	Mocos	0.0065	0.4771
NM_007863	Mpp3	0.0453	0.4770
NM_173784	9630054F20Rik	0.0239	0.4766
XM_149709	LOC231891	0.0167	0.4766
XM_359190	LOC386372	0.0123	0.4763
XM_132282	Acacb	0.0436	0.4759
NM_023483	1110032A03Rik	0.0396	0.4757
NM_153749	Mill1	0.0008	0.4753
NM_011973	Rage	0.0258	0.4743
NM_008506	Lmyc1	0.0053	0.4728
XM_141455	Slc5a12	0.0491	0.4728
NM_013749	Tnfrsf12a	0.0292	0.4725
XM_130287	4930432B04Rik	0.0274	0.4718
NM_130457	Cntnap4	0.0444	0.4716
NM_010231	Fmo1	0.0322	0.4715
AK031171	Msn	0.0369	0.4709
XM_356185	lqcf5	0.0158	0.4697
NM_172913	Tnrc9	0.0021	0.4691
NM_080644	Cacng5	0.0010	0.4678
NM_053136	Pcdhb11	0.0491	0.4678
NM_008602	Miz1	0.0184	0.4666

AK048237	C130042E02Rik	0.0388	0.4645
	4930486A15Rik	0.0022	0.4644
XM_148700	LOC224087	0.0195	0.4636
	Gdap9	0.0010	0.4633
AK084101	Cacna2d1	0.0251	0.4632
NM_027926	Cpa4	0.0259	0.4631
NM_011112	Papola	0.0236	0.4622
XM_357718	LOC384574	0.0362	0.4616
XM_111541	LOC193570	0.0175	0.4608
NM_146823	Olfr1184	0.0190	0.4608
NM_175666	Hist2h2bb	0.0023	0.4604
XM_136954	LOC237314	0.0246	0.4600
NM_025646	0610009I22Rik	0.0337	0.4576
NM_175349	Ldhal6b	0.0306	0.4570
NM_133202	Trhr2	0.0149	0.4569
NM_172291	BC024806	0.0360	0.4565
NM_019779	Cyp11a1	0.0004	0.4565
NM_172146	Ppat	0.0261	0.4555
	A930033M14Rik	0.0349	0.4553
NM_008111	Gdi2	0.0263	0.4539
	4930478K11Rik	0.0029	0.4530
NM_011297	Rps24	0.0302	0.4526
NM_033648	Fxyd4	0.0242	0.4523
	9830115L13Rik	0.0029	0.4507
NM_019496	Ammecr1	0.0218	0.4502
AK028402	Dtna	0.0478	0.4500
NM_010559	Il6ra	0.0267	0.4493
NM_175404	3010003L21Rik	0.0326	0.4484
NM_177467	D6ErtD160e	0.0020	0.4483
	1700026D11Rik	0.0127	0.4482
AK043392	Ysg2	0.0264	0.4481
BC034839	Nrg4	0.0361	0.4474
AK082319	Rassf1	0.0136	0.4473
XM_110973	BC050078	0.0131	0.4469
AK030347	5230401C23Rik	0.0020	0.4456
XM_131049	Polr3c	0.0439	0.4452
NM_173451	9330196J05Rik	0.0126	0.4447
NM_145551	Slc5a9	0.0176	0.4440
XM_141989	LOC245545	0.0005	0.4436
NM_019389	Cspg2	0.0181	0.4428
XM_132966	2810474O19Rik	0.0275	0.4421
	5830411I20	0.0254	0.4408
	9230118N17Rik	0.0206	0.4406
XM_125946	4633402N23Rik	0.0458	0.4398
NM_013774	Tcl1b4	0.0307	0.4391
NM_172607	9130210N20Rik	0.0156	0.4388
XM_356097	2210011C24Rik	0.0299	0.4383
XM_112440	Hs3st2	0.0375	0.4382
NM_010061	Dnase1	0.0257	0.4378
AK078383	6530437D17Rik	0.0195	0.4377
NM_176830	1110036O03Rik	0.0109	0.4376
AK020995	B230207L18Rik	0.0169	0.4375
NM_175276	FHOS2	0.0406	0.4375
NM_019945	Mast1	0.0411	0.4373
XM_357124	G630041M05Rik	0.0313	0.4373
XM_356519	LOC382462	0.0259	0.4368
XM_357625	LOC384404	0.0173	0.4366
NM_177580	BC048937	0.0375	0.4365
NM_178879	C76566	0.0393	0.4362
NM_027921	Slc16a14	0.0154	0.4356
XM_143254	Igsf10	0.0426	0.4356
	9630028H03Rik	0.0458	0.4355
AK029474	B4galt1	0.0437	0.4350
AK014667	4833408P15Rik	0.0379	0.4346
NM_009944	Cox7a1	0.0034	0.4342
	1700008A23Rik	0.0135	0.4340
NM_027541	Prpf3	0.0418	0.4334
NM_021279	Wnt1	0.0455	0.4309

	4930587E11Rik	0.0091	0.4308
NM_011487	Stat4	0.0114	0.4302
XM_147346	5031412I06Rik	0.0399	0.4301
NM_026931	1810011O10Rik	0.0095	0.4300
NM_023057	AV006891	0.0089	0.4293
NM_181540	Tm6sf2	0.0454	0.4293
XM_358417	LOC380750	0.0272	0.4292
XM_138115	LOC238199	0.0382	0.4291
NM_198640	Al324046	0.0036	0.4291
	Csmd2	0.0160	0.4284
NM_010606	Kcnj6	0.0261	0.4274
NM_019631	C630002M10Rik	0.0037	0.4272
NM_147029	Olfr1120	0.0421	0.4272
NM_001002004	2610507B11Rik	0.0148	0.4270
	Tmevpg1	0.0234	0.4267
NM_175503	Aard	0.0276	0.4257
XM_128716	Fbxl17	0.0178	0.4250
NM_207632	Olfr1118	0.0036	0.4243
NM_172844	4831428F09	0.0467	0.4238
AK038647	A230052G08Rik	0.0365	0.4237
NM_194464	Mrv1	0.0126	0.4229
AK043707	A830022J10Rik	0.0075	0.4227
XM_357655	LOC384453	0.0210	0.4221
	B830008M09Rik	0.0141	0.4217
AF475077	Lmnt1	0.0319	0.4217
NM_026147	Rps20	0.0431	0.4216
AK049758	C530046N22Rik	0.0462	0.4213
XM_355473	LOC381515	0.0210	0.4210
	5730439E01Rik	0.0322	0.4205
		0.0091	0.4202
NM_175381	2700081O15Rik	0.0400	0.4201
NM_009506	Vegfc	0.0365	0.4198
NM_011286	Rph3a	0.0134	0.4193
	C030001C17Rik	0.0174	0.4190
AK043055	Masp1	0.0173	0.4189
AK039395	A330038H24Rik	0.0326	0.4177
XM_140295	LOC225416	0.0042	0.4172
NM_178673	Fstl5	0.0391	0.4167
NM_026008	2610207F23Rik	0.0334	0.4162
NM_027193	2410012M04Rik	0.0377	0.4161
NM_008292	Hsd17b4	0.0387	0.4161
XM_357967	LOC384972	0.0127	0.4161
NM_026406	Zfp364	0.0307	0.4157
NM_053241	Cldn16	0.0175	0.4155
NM_029977	Polq	0.0111	0.4152
XM_357012	LOC383368	0.0060	0.4145
XM_358456	LOC380894	0.0245	0.4142
XM_489183	A230057D06Rik	0.0162	0.4140
AK053844		0.0242	0.4139
NM_146726	Olfr514	0.0332	0.4131
NM_145988	1700108L22Rik	0.0300	0.4125
NM_146001	Hip1	0.0085	0.4110
NM_133656	Crk	0.0033	0.4110
NM_177599	4932415M13	0.0300	0.4103
XM_358605	LOC381520	0.0340	0.4100
AK038691	A230055I01Rik	0.0407	0.4095
NM_144864	Brd8	0.0075	0.4087
XM_355095	LOC381173	0.0056	0.4074
NM_016773	Nucb2	0.0466	0.4065
NM_019959	C1qtnf1	0.0017	0.4062
AK016953		0.0107	0.4062
NM_023144	Nono	0.0219	0.4061
XM_205091	LOC279056	0.0162	0.4061
NM_026189	2310005P05Rik	0.0398	0.4058
AK013515	Man1b	0.0382	0.4051
AK034780	Zic3	0.0005	0.4047
NM_172930	6430550H21Rik	0.0028	0.4047
AK013540	2900016J09Rik	0.0070	0.4045

XM_136178	A330043L12	0.0179	0.4041
NM_026050	2810453I06Rik	0.0206	0.4040
XM_111312	LOC193330	0.0432	0.4035
NM_183390	Klhl6	0.0008	0.4033
XM_140391	Wdr7	0.0484	0.4029
NM_019582	Cacna1f	0.0378	0.4026
AK020460	9430038I01Rik	0.0395	0.4025
XM_135805	Wdr44	0.0083	0.4025
NM_177624	A430083B19Rik	0.0171	0.4004
NM_207231	Arl12	0.0137	0.4003
	4933440N22Rik	0.0389	0.4001
AK077954	6030460N08Rik	0.0071	0.4000
NM_010121	Eif2ak3	0.0375	0.3996
	AU021838	0.0191	0.3990
XM_355416	4930564D02Rik	0.0057	0.3983
NM_013850	Abca7	0.0093	0.3981
NM_010904	Nefh	0.0264	0.3968
XM_357629	LOC384411	0.0499	0.3966
AK053544	Ncaml-pending	0.0110	0.3962
	1700124L16Rik	0.0384	0.3956
NM_198114	Nsddr	0.0312	0.3955
NM_177119	6030470M02Rik	0.0162	0.3953
NM_028724	Rin2	0.0157	0.3944
		0.0465	0.3943
AK010648	2410041F14Rik	0.0248	0.3942
	A930036M01Rik	0.0296	0.3941
NM_016877	Cnot4	0.0394	0.3935
XM_137065	LOC215946	0.0143	0.3933
NM_146076	Slc26a8	0.0205	0.3929
XM_205324	Slitrk2	0.0190	0.3929
AK046650	B430219N15Rik	0.0142	0.3929
NM_198649	D930036B08Rik	0.0179	0.3926
NM_172616	C330027C09Rik	0.0116	0.3922
NM_031367	H28	0.0351	0.3922
NM_009918	Cnga3	0.0220	0.3916
XM_204250	LOC277925	0.0376	0.3909
AK053383	Mcpr	0.0483	0.3909
NM_019689	Arid3b	0.0214	0.3907
XM_128169	1810041L15Rik	0.0153	0.3905
NM_029761	Dok5	0.0053	0.3904
XM_204832	LOC277146	0.0492	0.3904
NM_028938	4933403H06Rik	0.0189	0.3901
NM_027869	Pnpt1	0.0189	0.3899
NM_183270	5330414O08Rik	0.0476	0.3897
NM_152813	Plcd3	0.0314	0.3896
NM_011741	Zan	0.0389	0.3893
AK052936		0.0340	0.3893
NM_009782	Cacna1e	0.0211	0.3883
NM_028051	Slc39a5	0.0079	0.3880
AK033003	Tsn	0.0005	0.3879
NM_010101	Edg3	0.0182	0.3877
AK017122	4933439J11Rik	0.0057	0.3875
XM_356080	LOC382012	0.0274	0.3871
	2410021H03Rik	0.0415	0.3866
NM_009134	Scn10a	0.0489	0.3860
NM_146639	Olf1138	0.0138	0.3859
XM_110216	LOC381092	0.0285	0.3853
NM_010173	Faah	0.0122	0.3849
NM_177698	D430018P08	0.0132	0.3849
XM_137021	LOC212813	0.0430	0.3846
	E030024M20Rik	0.0437	0.3843
XM_205495	Grin3a	0.0355	0.3842
NM_028539	1700052K11Rik	0.0054	0.3841
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NM_198172	BC024139	0.0421	0.3833
NM_172430	4930544G21Rik	0.0394	0.3833
XM_196563	9530057J20Rik	0.0031	0.3830
	2310006E12Rik	0.0343	0.3829

NM_020009	Frap1	0.0259	0.3829
XM_147850	BC030046	0.0100	0.3829
NM_008601	Mitf	0.0388	0.3824
	1700040A22Rik	0.0471	0.3823
NM_011270	Rhced	0.0283	0.3819
NM_018797	Plxnc1	0.0311	0.3817
AK035725	Itch	0.0180	0.3812
NM_010730	Anxa1	0.0432	0.3812
XM_358537	LOC381256	0.0095	0.3811
NM_178927	AV344025	0.0145	0.3807
NM_028763	Nptxr	0.0490	0.3801
NM_027712	Dlgap1	0.0315	0.3798
XM_110919	4933433K01Rik	0.0492	0.3794
NM_010151	Nr2f1	0.0398	0.3792
AK034506	9330209C19Rik	0.0432	0.3788
AK087660	E230038B10Rik	0.0345	0.3787
XM_145597	LOC208645	0.0028	0.3785
NM_025609	Map3k7ip1	0.0203	0.3782
AK089197	F630035N16Rik	0.0458	0.3779
AK085310	D630009O07Rik	0.0413	0.3767
NM_026516	2810417M05Rik	0.0095	0.3755
XM_357183	LOC383681	0.0460	0.3751
NM_013780	Npas3	0.0245	0.3750
XM_204426	LOC245474	0.0209	0.3747
NM_181409	BC051083	0.0082	0.3740
XM_358528	LOC381220	0.0321	0.3733
	4932429P19Rik	0.0297	0.3733
XM_484382	4930563I02Rik	0.0273	0.3728
XM_358115	LOC385201	0.0101	0.3726
NM_008645	Mug1	0.0498	0.3724
XM_110973	BC050078	0.0363	0.3719
NM_147120	Olf638	0.0129	0.3714
AK042069	Glb1	0.0339	0.3713
XM_144849	LOC243467	0.0136	0.3707
	2310003C21Rik	0.0292	0.3706
AK018024	5830461H18Rik	0.0307	0.3702
NM_010250	Gabra1	0.0140	0.3702
XM_145814	LOC233614	0.0154	0.3701
	4930448I18Rik	0.0066	0.3697
	4930551E15Rik	0.0033	0.3692
	1110019D14Rik	0.0132	0.3691
XM_139488	LOC207939	0.0166	0.3688
XM_135029	BC023892	0.0190	0.3688
AK052245	D330012P07Rik	0.0487	0.3682
NM_183258	2610001J05Rik	0.0399	0.3678
XM_355438	LOC381485	0.0059	0.3677
XM_358049	LOC385094	0.0155	0.3676
XM_126647	1700012B07Rik	0.0060	0.3670
XM_356620	LOC382670	0.0416	0.3669
	1700037F24Rik	0.0160	0.3667
NM_025968	Ltb4dh	0.0493	0.3659
NM_008195	Gys3	0.0070	0.3657
XM_130954	Slc27a3	0.0252	0.3654
	9630045M23Rik	0.0384	0.3651
AK035013	9430073L23Rik	0.0126	0.3651
NM_008221	Hbb-y	0.0229	0.3650
	9030201C23Rik	0.0071	0.3647
XM_129358	Depdc2	0.0404	0.3646
NM_008519	Ltb4r1	0.0287	0.3634
XM_286390	LOC328031	0.0466	0.3632
NM_178692	C130074G19Rik	0.0058	0.3626
XM_358031	LOC385069	0.0230	0.3625
XM_136989	LOC209510	0.0344	0.3614
NM_138662	Pcdha3	0.0022	0.3603
NM_054049	Osr2	0.0376	0.3601
XM_150405	1600025M17Rik	0.0487	0.3600
AK052891	Kcnj5	0.0497	0.3598
NM_177343	Camk1d	0.0355	0.3598

XM_357168	LOC383642	0.0216	0.3595
NM_146260	Tmie	0.0428	0.3587
NM_030726	Mrgprh	0.0300	0.3579
NM_146647	Olfr1154	0.0137	0.3575
NM_139296	Dbh1	0.0109	0.3574
	7530428D23Rik	0.0398	0.3573
XM_141275	Scn3a	0.0115	0.3571
XM_195263	LOC270234	0.0232	0.3562
NM_172490	D5ErtD135e	0.0021	0.3560
XM_145418	LOC243868	0.0444	0.3550
NM_019725	Tle2	0.0014	0.3550
XM_129335	2700078E11Rik	0.0209	0.3548
		0.0483	0.3538
NM_008032	Fmr2	0.0354	0.3537
	4930403H09Rik	0.0266	0.3536
XM_359152	LOC386273	0.0446	0.3533
XM_484060	Ppm1e	0.0295	0.3507
NM_028611	2410091C18Rik	0.0208	0.3503
NM_031170	Krt2-8	0.0200	0.3502
NM_010068	Dnmt3b	0.0089	0.3500
NM_145741	Gdf10	0.0325	0.3497
NM_172856	Lass6	0.0317	0.3497
NM_009530	Atrx	0.0120	0.3494
NM_009808	Casp12	0.0175	0.3494
AK043235	Mthfs	0.0020	0.3493
NM_177413	B230343H07Rik	0.0103	0.3493
XM_128778	AW548124	0.0485	0.3493
AK043418	A730094G13Rik	0.0285	0.3493
AK012654	Hbb-bh1	0.0440	0.3492
AK051782	Mpdz	0.0025	0.3490
NM_025782	9130422G05Rik	0.0312	0.3482
NM_153743	Dnmt3a	0.0123	0.3481
	C530040J15Rik	0.0357	0.3477
NM_178117	BC035947	0.0445	0.3477
XM_290084	LOC333670	0.0432	0.3475
AK043242	4930563E22Rik	0.0220	0.3471
NM_011198	Ptgs2	0.0290	0.3467
XM_485378	Tex10	0.0288	0.3460
NM_080795	Lnx2	0.0081	0.3459
		0.0290	0.3455
XM_359042	LOC386045	0.0064	0.3450
NM_175331	C630002B14Rik	0.0100	0.3449
XM_131537	6430559E15Rik	0.0133	0.3442
NM_027496	0610012A05Rik	0.0353	0.3430
NM_016704	C6	0.0035	0.3429
NM_023370	Cdh23	0.0144	0.3420
XM_129550	LOC226652	0.0336	0.3418
XM_128912	AW554918	0.0347	0.3418
AK042154	A630064D11Rik	0.0377	0.3407
XM_141596	LOC245335	0.0127	0.3404
NM_177878	BC038925	0.0237	0.3400
AK028065	1520402A20Rik	0.0208	0.3396
NM_177158	5830482F20Rik	0.0316	0.3391
NM_027143	9130227C08Rik	0.0223	0.3390
NM_177383	Gpr21	0.0055	0.3389
NM_013870	Smtn	0.0427	0.3388
		0.0297	0.3386
NM_203320	Gm1960	0.0199	0.3386
NM_146064	Soat2	0.0149	0.3385
AK080808	B230217C12Rik	0.0389	0.3383
NM_007977	F8	0.0394	0.3380
NM_020264	Svs7	0.0145	0.3376
XM_358157	LOC385263	0.0116	0.3375
AK079617	A330078B09Rik	0.0020	0.3367
	5330429C05Rik	0.0065	0.3363
	4930544L18Rik	0.0002	0.3353
AK044651	A930029N17Rik	0.0347	0.3351
	8030497O21Rik	0.0414	0.3349

NM_172578	C79407	0.0160	0.3349
NM_009783	Cacna1g	0.0291	0.3330
		0.0097	0.3326
AK011093	2510025K24Rik	0.0285	0.3325
AK054318	Sec61a	0.0013	0.3321
NM_146817	Olf1156	0.0111	0.3320
NM_173732	BC030440	0.0185	0.3319
NM_011681	Scgb1a1	0.0120	0.3317
NM_011803	Copeb	0.0049	0.3316
NM_015791	Fbxo8	0.0497	0.3311
NM_029682	1700095N21Rik	0.0481	0.3308
AK014671	4833409J19Rik	0.0177	0.3307
AK084139	Trrp4	0.0100	0.3305
	5031434C07Rik	0.0190	0.3304
	0610039K10Rik	0.0135	0.3300
AK079451	9930037A22Rik	0.0451	0.3296
NM_053269	Rad51c	0.0491	0.3291
NM_145972	BC027231	0.0052	0.3287
NM_008359	Il17r	0.0349	0.3281
NM_146961	Olf1539	0.0497	0.3278
AK045299	B130063I11Rik	0.0259	0.3277
XM_356648	LOC382735	0.0431	0.3272
XM_134151	Aga	0.0439	0.3271
XM_357915	LOC384884	0.0365	0.3270
AK018601	9130008F23Rik	0.0134	0.3269
		0.0190	0.3263
NM_027241	2010003I19Rik	0.0201	0.3259
NM_008935	Prom1	0.0092	0.3255
NM_172778	Maob	0.0183	0.3245
NM_008399	Itgae	0.0467	0.3240
NM_053166	Trim7	0.0406	0.3239
	4930544F09Rik	0.0150	0.3236
	4930467M19Rik	0.0456	0.3231
	C130092O11Rik	0.0209	0.3227
AK048064	C130032L16Rik	0.0132	0.3225
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	1700101O22Rik	0.0429	0.2894
XM_354909	LOC380998	0.0416	0.2891
AK039683	A330085J21Rik	0.0107	0.2890
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	4933426F18Rik	0.0282	0.2867
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AK082520	C230059B01Rik	0.0230	0.2799
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AK087283	Hpa	0.0227	0.2797
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	2610035D17Rik	0.0151	0.2660
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	Ink76	0.0388	-0.3455
AK045553	B230210A04Rik	0.0049	-0.3456
NM_007864	Dlgh4	0.0110	-0.3459
NM_009023	Rapsn	0.0077	-0.3462
AK077972	6030488F16Rik	0.0382	-0.3465
XM_135829	Rnf127	0.0303	-0.3468
AK018033	Itga6	0.0012	-0.3468
NM_178258	Il22ra2	0.0315	-0.3475
NM_178688	Ablim1	0.0165	-0.3476
XM_355892	LOC381881	0.0148	-0.3476
	A630071L07Rik	0.0090	-0.3479
NM_177282	5330438E18Rik	0.0160	-0.3481
	D930044I17Rik	0.0419	-0.3500
XM_357031	LOC383403	0.0354	-0.3505
NM_026820	Ifitm1	0.0347	-0.3510
NM_201255	Krt1-9	0.0067	-0.3513
NM_173422	LOC239447	0.0126	-0.3515
	D030034A15Rik	0.0143	-0.3517
	1700012F11Rik	0.0296	-0.3518
	C630001G20Rik	0.0417	-0.3522
		0.0143	-0.3528
NM_144857	BC011248	0.0280	-0.3540
AK049649	Usp23	0.0163	-0.3546
NM_147119	Olfra632	0.0367	-0.3557
		0.0243	-0.3570
NM_001001489	BC021785	0.0039	-0.3572
NM_010799	Minpp1	0.0294	-0.3573
	9930104M19Rik	0.0317	-0.3582
NM_010984	Olfra42	0.0277	-0.3584
	6430537K16Rik	0.0486	-0.3593
AK040807	A530026H04Rik	0.0283	-0.3608
NM_016810	Gosr1	0.0103	-0.3615
NM_011305	Rxra	0.0274	-0.3616
NM_007732	Col17a1	0.0436	-0.3618
	4930572C08Rik	0.0354	-0.3620
XM_126776	Rnf157	0.0115	-0.3629
	A630076E03Rik	0.0336	-0.3634
XM_358628	LOC381592	0.0321	-0.3637
	3110035F07Rik	0.0407	-0.3656
	2210417K05Rik	0.0199	-0.3663
AK053743	E130306F01Rik	0.0009	-0.3671
NM_025880	2410002F23Rik	0.0186	-0.3682
AF363724	Tcf7l2	0.0062	-0.3699
XM_197335	Card12	0.0498	-0.3706
NM_183417	Cdk2	0.0418	-0.3707
NM_205810	Mrgprb1	0.0300	-0.3713
NM_031188	Mup1	0.0467	-0.3720
AK032661	6530404N23Rik	0.0124	-0.3740
XM_122636	LOC218617	0.0045	-0.3746
NM_026208	1700019N19Rik	0.0417	-0.3746
NM_183193	B130055A05Rik	0.0174	-0.3754
AK050073	C730010J01Rik	0.0306	-0.3756
BC050854		0.0270	-0.3756
XM_290014	LOC333759	0.0108	-0.3758
	C030029H02Rik	0.0471	-0.3764
XM_357609	LOC384378	0.0218	-0.3774
NM_146947	Olfra338	0.0128	-0.3776
NM_007864	Dlgh4	0.0041	-0.3777
XM_358744	4930448N21Rik	0.0140	-0.3778
AK039083	A230093N12Rik	0.0483	-0.3778
NM_153422	Pde5a	0.0210	-0.3791
NM_207249	Olfra684	0.0128	-0.3807
NM_183000	Accn3	0.0389	-0.3807
XM_357917	LOC384885	0.0018	-0.3811
XM_140016	Kcnh8	0.0209	-0.3817
XM_158111	LOC241235	0.0364	-0.3821
	4930563F08Rik	0.0094	-0.3823

AK087461		0.0187	-0.3824
XM_126759	Krt1-3	0.0276	-0.3824
NM_010143	Ephb3	0.0464	-0.3826
NM_013793	Klra15	0.0202	-0.3836
NM_009260	Spnb2	0.0121	-0.3855
XM_355832	LOC381831	0.0029	-0.3855
NM_023695	Crybb1	0.0028	-0.3858
NM_030691	Igsf6	0.0154	-0.3864
	2600010L24Rik	0.0463	-0.3870
NM_011539	Tbxas1	0.0395	-0.3881
NR_001461	4933417O13Rik	0.0399	-0.3888
NM_010116	Klk9	0.0500	-0.3890
NM_198884	AB114826	0.0396	-0.3897
XM_355790	Sec15l2	0.0455	-0.3901
NM_026222	D3Ertd789e	0.0162	-0.3902
XM_286973	LOC329123	0.0434	-0.3906
NM_021475	Adamdec1	0.0155	-0.3929
NM_030262	Pofut2	0.0018	-0.3938
NM_030721	Acox3	0.0230	-0.3945
NM_010006	Cyp2d9	0.0139	-0.3948
XM_483927	BC024063	0.0343	-0.3954
NM_146713	Olfr1342	0.0264	-0.3969
NM_146508	Olfr959	0.0002	-0.3985
	4930570N18Rik	0.0372	-0.3989
NM_011129	4-Sep	0.0286	-0.3991
NM_177572	BC057371	0.0181	-0.3992
NM_178871	Tbrg3	0.0365	-0.3997
NM_177994	C030046I01Rik	0.0448	-0.4004
NM_175236	Adhfe1	0.0160	-0.4019
NM_009246	Serpina1d	0.0110	-0.4040
NM_029585	2610034H20Rik	0.0064	-0.4045
	6230415J03Rik	0.0242	-0.4050
NM_019878	Sult1b1	0.0016	-0.4051
NM_019577	Ccl24	0.0279	-0.4053
NM_026293	4930540L03Rik	0.0203	-0.4059
NM_010149	Epor	0.0352	-0.4064
NM_133905	Papd4	0.0481	-0.4066
NM_030184	4930438O05Rik	0.0496	-0.4074
NM_133653	Mat1a	0.0309	-0.4078
XM_129420	4732466D17Rik	0.0320	-0.4079
NM_172614	9330161C17Rik	0.0385	-0.4081
AK015758	4930511J15Rik	0.0209	-0.4085
NM_008141	Gnat2	0.0398	-0.4095
NM_010600	Kcnh1	0.0331	-0.4097
XM_148768	LOC268935	0.0196	-0.4099
NM_144886	Exosc2	0.0170	-0.4102
NM_029498	Zfp198	0.0391	-0.4116
NM_007950	Ereg	0.0119	-0.4125
NM_021343	Spata5	0.0284	-0.4126
XM_488795	4732491K20Rik	0.0250	-0.4128
NM_139148	Cla4	0.0227	-0.4132
XM_355367	LOC381405	0.0111	-0.4135
NM_010277	Gfap	0.0203	-0.4139
AK041867	A630042M04Rik	0.0115	-0.4140
AK041722	A630032G22Rik	0.0065	-0.4142
NM_027462	Wars2	0.0049	-0.4142
AK036437	9830108D13Rik	0.0081	-0.4150
	5330421F21Rik	0.0203	-0.4156
AK046611	Xrcc1	0.0455	-0.4165
NM_145368	C730036D15Rik	0.0103	-0.4188
NM_025654	Rad52b	0.0010	-0.4193
XM_355067	LOC381146	0.0158	-0.4194
NM_025390	Pop4	0.0497	-0.4205
NM_133968	Snpc2	0.0278	-0.4208
XM_140175	LOC240172	0.0132	-0.4212
NM_198619	MGC67181	0.0187	-0.4217
XM_131071	2610202E01Rik	0.0021	-0.4228
AK049346	C330026G04Rik	0.0287	-0.4230

NM_029763	3010019O03Rik	0.0411	-0.4231
AK038699	Birc6	0.0265	-0.4232
NM_013874	Neud4	0.0203	-0.4233
XM_130200	Cep1	0.0069	-0.4239
		0.0463	-0.4247
XM_358203	LOC385352	0.0004	-0.4255
XM_109910	LOC210535	0.0124	-0.4258
NM_175034	Slc24a5	0.0138	-0.4260
NM_008462	Klra2	0.0306	-0.4275
	2900046H12Rik	0.0200	-0.4277
AK084676	D330028N13Rik	0.0073	-0.4281
	C330025O08Rik	0.0065	-0.4282
NM_198112	Ostn	0.0089	-0.4285
XM_146935	LOC235444	0.0310	-0.4314
		0.0050	-0.4326
NM_010043	Des	0.0264	-0.4332
XM_358933	LOC385758	0.0478	-0.4335
NM_028773	1200013B08Rik	0.0139	-0.4345
NM_028903	4933425F03Rik	0.0104	-0.4373
XM_357989	Olf44	0.0417	-0.4377
AK017490	5730405D16Rik	0.0219	-0.4384
NM_178735	A730069N07Rik	0.0068	-0.4389
AK038868	A230069K20Rik	0.0360	-0.4399
NM_007400	Adam12	0.0224	-0.4400
NM_133729	2610018G03Rik	0.0350	-0.4418
NM_133761	Mitc1	0.0202	-0.4425
AK005295	Nssr	0.0301	-0.4449
NM_009220	Ssty1	0.0251	-0.4453
XM_142616	4930488N24Rik	0.0133	-0.4460
NM_009793	Camk4	0.0148	-0.4476
NM_207558	Olf750	0.0004	-0.4482
NM_009968	Cryz	0.0168	-0.4486
NM_178776	C030030A07Rik	0.0010	-0.4492
AK054001	Lu	0.0108	-0.4519
	4833427F10Rik	0.0232	-0.4532
NM_020618	Smarce1	0.0270	-0.4536
AK082206	C230023B21Rik	0.0126	-0.4537
AK076802	4930471I01Rik	0.0101	-0.4553
NM_010551	Ii16	0.0039	-0.4555
XM_357863	LOC384783	0.0194	-0.4558
NM_145977	2210413P12Rik	0.0267	-0.4579
NM_011841	Mapk7	0.0075	-0.4582
NM_026150	4921536K21Rik	0.0185	-0.4590
NM_144812	D230019K20Rik	0.0178	-0.4607
NM_146590	Olf1085	0.0355	-0.4610
NM_053247	Xlkd1	0.0371	-0.4612
NM_007807	Cybb	0.0045	-0.4658
NM_007852	Defcr6	0.0283	-0.4673
NM_172912	Abcc12	0.0294	-0.4683
AK036917	9930024G20Rik	0.0029	-0.4694
NM_013553	Hoxc4	0.0267	-0.4703
XM_289922	LOC333825	0.0068	-0.4707
NM_053112	Ear10	0.0274	-0.4709
	Tcp10	0.0369	-0.4711
AK018015	5830455K21Rik	0.0358	-0.4716
NM_026177	1200011I18Rik	0.0248	-0.4716
AK078182	6430404H03Rik	0.0147	-0.4723
NM_009309	T	0.0167	-0.4742
NM_177213	4930500I12Rik	0.0015	-0.4771
XM_283603	Laf4	0.0233	-0.4782
NM_198683	Cugbp1	0.0056	-0.4803
AK035309	9530013L07Rik	0.0026	-0.4805
NM_007827	Daf2	0.0424	-0.4835
NM_010639	Klk6	0.0420	-0.4839
BC023938		0.0271	-0.4843
XM_143826	2810040O04Rik	0.0074	-0.4852
NM_080450	Gje1	0.0216	-0.4868
NM_009820	Runx2	0.0328	-0.4882

NM_008563	Mcm3	0.0399	-0.4891
NM_009959	Pcdha5	0.0137	-0.4897
NM_020508	Brd4	0.0174	-0.4899
NM_152808	1110028E10Rik	0.0460	-0.4927
NM_033579	Pcdhgb7	0.0354	-0.4938
NM_028127	4930488L10Rik	0.0252	-0.4951
NM_028362	2410018L13Rik	0.0262	-0.4954
NM_010669	Krt2-6b	0.0384	-0.4956
NM_008399	Itgae	0.0167	-0.4960
NM_010899	Nfatc2	0.0429	-0.4978
NM_008871	Serpine1	0.0032	-0.4991
NM_029409	5230400G24Rik	0.0410	-0.4992
NM_145530	Rhov	0.0482	-0.5037
NM_010206	Fgfr1	0.0329	-0.5064
	2900060B22Rik	0.0312	-0.5064
NM_181409	BC051083	0.0011	-0.5066
NM_025914	Actr6	0.0401	-0.5092
		0.0128	-0.5107
NM_178239	Ndor1	0.0419	-0.5110
NM_009063	Rgs5	0.0057	-0.5128
	5430402P08Rik	0.0288	-0.5131
NM_027921	Slc16a14	0.0095	-0.5132
NM_138676	Shkbp1	0.0497	-0.5152
BC061032	2700038I16Rik	0.0112	-0.5172
NM_010349	Grik2	0.0306	-0.5183
AK043320	5-Htr2c, GPCR	0.0014	-0.5201
XM_128667	1600014C23Rik	0.0100	-0.5206
XM_354933	2410015A16Rik	0.0160	-0.5211
AK039937	A430034C19Rik	0.0350	-0.5213
NM_172145	2610027C15Rik	0.0033	-0.5231
NM_013486	Cd2	0.0150	-0.5241
XM_354881	1700030F18Rik	0.0086	-0.5254
NM_030709	Tmprss5	0.0148	-0.5265
XM_111244	D030068L24	0.0358	-0.5272
XM_356718	LOC382866	0.0002	-0.5278
XM_355358	LOC381400	0.0249	-0.5308
AK029124	Usp23	0.0422	-0.5311
XM_354923	D15Mit260	0.0440	-0.5317
XM_147308	Sprr3	0.0357	-0.5334
NM_009933	Col6a1	0.0207	-0.5335
NM_146218	BC027246	0.0318	-0.5339
NM_139197	Gbgt1	0.0142	-0.5370
NM_176916	B230365F16Rik	0.0333	-0.5434
NM_011973	Rage	0.0068	-0.5435
BC067057	Grm1	0.0341	-0.5444
XM_357543	LOC384284	0.0076	-0.5451
NM_030052	4930503B16Rik	0.0244	-0.5474
		0.0153	-0.5485
NM_023219	Slc5a4b	0.0037	-0.5490
NM_207109	Astn2	0.0122	-0.5519
NM_018869	Gprk5	0.0240	-0.5526
AK080798	B230207H15Rik	0.0186	-0.5541
NM_145438	Llg1h2	0.0281	-0.5542
NM_183277	1500015L24Rik	0.0188	-0.5568
XM_355742	LOC381750	0.0410	-0.5585
	1110064A23Rik	0.0185	-0.5591
XM_141350	1200014P05Rik	0.0203	-0.5610
NM_138686	Cys1	0.0411	-0.5623
AK010791		0.0399	-0.5627
NM_177083	B430306N03Rik	0.0137	-0.5636
	2610007O09Rik	0.0463	-0.5648
AK018143	6330408J11Rik	0.0297	-0.5655
XM_358860	LOC385658	0.0229	-0.5689
NM_172468	4732481H14Rik	0.0109	-0.5698
	6720422M22Rik	0.0096	-0.5716
NM_146733	Olf482	0.0219	-0.5717
NM_009747	Bdkrb2	0.0188	-0.5721
NM_011465	Spna1	0.0299	-0.5738

	4930564I24Rik	0.0340	-0.5772
NM_146974	Olfr1262	0.0267	-0.5772
XM_284152	LOC330217	0.0009	-0.5787
NM_172924	C230081A13Rik	0.0005	-0.5836
NM_027399	Steap	0.0443	-0.5867
AK038609		0.0482	-0.5870
NM_008310	Htr1f	0.0424	-0.5883
NM_146360	Olfr574	0.0118	-0.5930
NM_010059	Dmc1h	0.0092	-0.5959
NM_181529	Syt15	0.0112	-0.6016
NM_145851	Cables2	0.0037	-0.6031
NM_029404	4932409F11Rik	0.0199	-0.6038
XM_358753	1500031H01Rik	0.0477	-0.6084
NM_009105	Rsu1	0.0233	-0.6104
XM_288148	AW822252	0.0338	-0.6114
XM_285912	LOC330264	0.0026	-0.6114
NM_145830	Bat8	0.0087	-0.6137
NM_026174	Entpd4	0.0463	-0.6141
NM_172685	Slc25a24	0.0123	-0.6195
NM_020493	Srf	0.0174	-0.6196
NM_144938	C1s	0.0238	-0.6196
NM_011059	Padi1	0.0096	-0.6204
NM_207265	C230071H18Rik	0.0301	-0.6218
AK089256	F630107D10Rik	0.0214	-0.6244
NM_010820	Mpdz	0.0083	-0.6268
NM_007731	Col13a1	0.0010	-0.6276
AK045211	B130047N10Rik	0.0160	-0.6280
NM_146604	Olfr716	0.0015	-0.6299
NM_138606	Pim2	0.0345	-0.6341
NM_019388	Cd86	0.0483	-0.6414
XM_147630	LOC208501	0.0063	-0.6447
AK040666	A530010L13Rik	0.0133	-0.6484
NM_177841	4932418E24Rik	0.0129	-0.6501
NM_027260	Vrk2	0.0254	-0.6561
BC042212	Madd	0.0422	-0.6563
AK051973	D230028H24Rik	0.0006	-0.6585
NM_010221	Fkbp10	0.0145	-0.6592
NM_177322	Agtr1	0.0468	-0.6695
NM_007537	Bcl2l2	0.0334	-0.6742
NM_144906	3110007P09Rik	0.0102	-0.6763
NM_011820	Ggtla1	0.0201	-0.6768
NM_031182	Tcfap4	0.0410	-0.6798
NM_177790	A930006D11	0.0472	-0.6838
AK033867		0.0120	-0.6935
NM_031261	Fthl17	0.0209	-0.6956
NM_011235	Rad51l3	0.0193	-0.6962
XM_355795	1190003M12Rik	0.0182	-0.7103
NM_010589	Jak3	0.0009	-0.7118
NM_028048	1810012H11Rik	0.0094	-0.7264
NM_019505	Dgke	0.0119	-0.7325
NM_011806	Dmtf1	0.0042	-0.7398
XM_145725	LOC233564	0.0462	-0.7618
NM_010807	Mlp	0.0020	-0.7649
NM_028963	4933427D14Rik	0.0229	-0.7865
NM_007698	Chrm1	0.0498	-0.7961
NM_182994	2810410P22Rik	0.0242	-0.7999
NM_013500	Hapln1	0.0265	-0.8054
NM_007579	Cacna1b	0.0118	-0.8091
XM_126497	1700039D13Rik	0.0023	-0.8197
NM_010410	Hcrt	0.0293	-0.8282
NM_008121	Gja5	0.0256	-0.8295
NM_198429	Nfatc1	0.0018	-0.9021
AK011168	Nudel-pending	0.0085	-0.9178
XM_134161	LOC211895	0.0001	-0.9256
NM_147219	Abca5	0.0005	-0.9538
NM_080451	Synpo2	0.0182	-0.9590
NM_023133	Rps19	0.0170	-0.9617
NM_030707	Msr2	0.0213	-1.0055

AK006979	1700082G03Rik	0.0276	-1.0747
XM_484075	B230105J10	0.0063	-1.1387
XM_354621	LOC380706	0.0212	-1.2280
NM_010661	Krt1-12	0.0002	-3.1450
NM_010412	Hdac5	0.0000	-3.3307
NM_010661	Krt1-12	0.0000	-3.6835
NM_010412	Hdac5	0.0000	-3.7302

Supplemental Table S5:
WT Cocaine vs. WT Saline significantly regulated genes

ACCESSION	SYMBOL	p-value	log2
NM_009242	Sparc	0.0231	1.2614
NM_153529	Nrn1	0.0320	1.2462
NM_080853	Slc17a6	0.0182	1.2169
NM_144783	Wt1	0.0323	1.1542
NM_198629	LOC328644	0.0288	1.0765
NM_020568	S3-12	0.0071	0.9662
NM_015743	Nr4a3	0.0129	0.9563
NM_008958	Ptch2	0.0003	0.9397
NM_153820	Arhgap15	0.0317	0.9081
NM_021288	Tyms	0.0090	0.8926
NM_028023	Cdca4	0.0170	0.8888
AK049881	C630007C17Rik	0.0295	0.8741
AK015077	4930404F20Rik	0.0096	0.8719
NM_175095	Commd2	0.0297	0.8538
NM_178210	Hist1h4j	0.0123	0.8451
NM_007997	Fdxr	0.0145	0.8366
NM_153126	Al429152	0.0067	0.8357
AK037929	A130064M08Rik	0.0143	0.8250
NM_011158	Prkar2b	0.0046	0.8083
	2010001A14Rik	0.0294	0.7978
NM_007417	Adra2a	0.0093	0.7939
NM_153153	Svil	0.0077	0.7889
NM_198034	B830021E24Rik	0.0415	0.7872
NM_021288	Tyms	0.0295	0.7733
AK079082	9330160M08Rik	0.0022	0.7733
NM_023792	Pank1	0.0089	0.7649
NM_027878	1200002N14Rik	0.0398	0.7571
NM_008102	Gch1	0.0022	0.7520
NM_021716	Figl	0.0315	0.7492
NM_027865	Tmem25	0.0175	0.7467
NM_153392	4922503N01Rik	0.0034	0.7465
NM_016712	Tmod4	0.0081	0.7455
XM_286119	LOC333315	0.0255	0.7436
NM_028334	Nup37	0.0032	0.7354
NM_007623	Cbx2	0.0089	0.7233
NM_028500	Calr3	0.0028	0.7224
NM_178187	Hist1h2ae	0.0428	0.7196
AK031868	6330437B22Rik	0.0004	0.7184
NM_019806	Vapb	0.0254	0.7143
NM_146072	Grik1	0.0300	0.7071
	2810436B12Rik	0.0044	0.7026
NM_012026	Rgnef	0.0050	0.6923
XM_484601	3110052M02Rik	0.0225	0.6914
	8030443G20Rik	0.0317	0.6903
AK084012	Slit2	0.0411	0.6882
NM_181540	Tm6sf2	0.0036	0.6874
XM_135161	1700024B07Rik	0.0198	0.6859
NM_153106	Padi6	0.0215	0.6852
NM_145922	Kcnc4	0.0356	0.6846
XM_195428	LOC272661	0.0247	0.6833
AK013540	2900016J09Rik	0.0037	0.6814
NM_173451	9330196J05Rik	0.0083	0.6762
XM_129225	Rln1	0.0471	0.6724
NM_080437	Celsr3	0.0107	0.6709
NM_013645	Pvalb	0.0309	0.6683
NM_027907	Agxt2l1	0.0335	0.6614
XM_194622	B430306D02Rik	0.0127	0.6613
XM_126517	Car10	0.0303	0.6571
XM_135999	Hdac8	0.0187	0.6549
NM_198630	1810024B03Rik	0.0191	0.6531
NM_178413	BC051244	0.0262	0.6522
NM_145922	Kcnc4	0.0062	0.6509
XM_359200	AA162070	0.0176	0.6436
	C030041G11Rik	0.0290	0.6418
NM_028274	Exosc6	0.0144	0.6415
		0.0141	0.6394
NM_145988	1700108L22Rik	0.0427	0.6386

XM_128725	Ndufv2	0.0108	0.6379
AK034780	Zic3	0.0003	0.6343
XM_135429	4930502E18Rik	0.0326	0.6320
XM_486035	C330014O21Rik	0.0131	0.6316
NM_019707	Cdh13	0.0199	0.6304
XM_109894	Usp22	0.0434	0.6280
AK054432	E330024P20Rik	0.0246	0.6278
NM_012017	Zfp346	0.0278	0.6255
XM_355936	LOC381919	0.0065	0.6246
	2310007J06Rik	0.0498	0.6245
XM_111541	LOC193570	0.0011	0.6238
NM_198172	BC024139	0.0020	0.6231
NM_174960	A630002K24	0.0136	0.6228
NM_024196	2810442O16Rik	0.0447	0.6220
NM_138951	BC021608	0.0093	0.6218
NM_146823	Olf1184	0.0142	0.6211
NM_177785	BC049635	0.0003	0.6210
NM_011902	Tekt2	0.0135	0.6162
	6030441I21Rik	0.0346	0.6150
AK087769	E330019C05Rik	0.0447	0.6130
NM_007675	Ceacam10	0.0196	0.6092
NM_145622	Zfp71-rs1	0.0054	0.6089
NM_029686	Pkd1l2	0.0186	0.6069
	1700122E12Rik	0.0015	0.6061
AK048887	Xpr1	0.0321	0.6047
NM_134245	V1ri10	0.0152	0.6018
AK050870	D030027P05Rik	0.0081	0.6006
NM_009122	Satb1	0.0360	0.5987
NM_144927	BC019943	0.0198	0.5985
XM_131741	9430088F20	0.0063	0.5981
XM_354618	4632403M07Rik	0.0135	0.5973
	1110030H10Rik	0.0451	0.5973
AK054295	E330011I20Rik	0.0199	0.5972
NM_207530	Osbpl1a	0.0123	0.5964
NM_021542	Kcnk5	0.0146	0.5959
NM_009965	Cryba1	0.0056	0.5958
NM_198306	Galnt9	0.0450	0.5956
NM_207275	4930517K23Rik	0.0145	0.5946
	1190002F15Rik	0.0460	0.5926
NM_007586	Calb2	0.0463	0.5915
	2610012C04Rik	0.0225	0.5898
NM_023672	Ssbp3	0.0015	0.5871
NM_026414	2300003P22Rik	0.0386	0.5868
NM_173380	Tbc1d4	0.0010	0.5861
NM_019875	Abcb9	0.0458	0.5857
XM_283987	LOC329893	0.0366	0.5844
NM_021882	Si	0.0356	0.5838
NM_026443	1700020C11Rik	0.0059	0.5819
XM_147132	Kbtbd5	0.0226	0.5807
AK081911	C130086K02Rik	0.0230	0.5806
NM_008742	Ntf3	0.0033	0.5803
NM_016864	Atoh7	0.0293	0.5802
NM_053171	Csmd1	0.0012	0.5794
XM_354569	5033413D22Rik	0.0159	0.5791
NM_019740	Foxo3	0.0236	0.5790
NM_053269	Rad51c	0.0041	0.5786
NM_053167	Trim9	0.0237	0.5770
AK038489	A230020C19Rik	0.0394	0.5762
NM_133656	Crk	0.0155	0.5762
NM_008920	Prg2	0.0178	0.5752
XM_489253	C230057M02Rik	0.0229	0.5747
NM_183294	Cdkl1	0.0248	0.5719
	Tmevpg1	0.0120	0.5684
XM_148338	Tbx1	0.0194	0.5676
NM_194357	Rya3	0.0144	0.5667
	2810423A18Rik	0.0086	0.5661
	4930488P18Rik	0.0384	0.5655
NM_146606	Olf124	0.0477	0.5653

NM_199079	2610007K22Rik	0.0363	0.5648
XM_487324	Polr3a	0.0107	0.5640
NM_010309	Gnas	0.0422	0.5636
	E330033B04Rik	0.0480	0.5636
XM_484060	Ppm1e	0.0176	0.5626
NM_026092	Lyzl1	0.0036	0.5611
XM_356713	LOC382857	0.0204	0.5609
		0.0271	0.5591
NM_198416	Zzz3	0.0181	0.5582
AK044210	A930001H09Rik	0.0335	0.5565
NM_011770	Zfpn1a2	0.0272	0.5526
NM_146852	Olfir1339	0.0021	0.5520
NM_010139	Epha2	0.0288	0.5511
AK053383	Mcpr	0.0261	0.5505
NM_030175	4930507C10Rik	0.0157	0.5501
NM_020033	Ankrd2	0.0458	0.5492
	C030044O21Rik	0.0188	0.5489
		0.0262	0.5487
AK014139	3110038B19Rik	0.0091	0.5474
XM_489103	A230057G18Rik	0.0260	0.5472
NM_015730	Chrna4	0.0427	0.5456
NM_030723	Pum2	0.0352	0.5451
XM_150394	LOC236667	0.0012	0.5446
AK085265	D630002K12Rik	0.0036	0.5407
NM_053248	Slc5a5	0.0011	0.5405
NM_134173	V1rc18	0.0221	0.5401
NM_172913	Tnrc9	0.0389	0.5393
AK037671	A130035O14Rik	0.0162	0.5352
AK011712	Fgf12	0.0409	0.5348
XM_125946	4633402N23Rik	0.0039	0.5337
	3110054G05Rik	0.0294	0.5322
NM_015802	Dlc1	0.0490	0.5313
BC029209	D11Lgp2e	0.0004	0.5309
XM_204152	Frmpd1	0.0408	0.5309
NM_030725	Syt13	0.0472	0.5306
AK042223	A630072I12Rik	0.0384	0.5298
AK036443	Ache	0.0402	0.5293
AK052550	D430050F21Rik	0.0209	0.5292
AK016297		0.0036	0.5290
XM_124895	LOC233024	0.0451	0.5289
NM_010095	Ebf2	0.0068	0.5264
NM_011270	Rhced	0.0292	0.5264
AK012654	Hbb-bh1	0.0113	0.5264
XM_358499	LOC381080	0.0229	0.5262
NM_016893	Fut8	0.0070	0.5248
NM_016851	Irf6	0.0032	0.5178
XM_354829	LOC380918	0.0122	0.5175
NM_011214	Ptpru	0.0276	0.5175
NM_007564	Zfp361	0.0360	0.5173
XM_355428	LOC381470	0.0496	0.5167
NM_009559	Zfp57	0.0186	0.5153
NM_011387	Slc10a1	0.0232	0.5141
AK044751	A930039H18Rik	0.0427	0.5139
AK035109	9430088P09Rik	0.0135	0.5131
NM_019945	Mast1	0.0362	0.5130
NM_201368	4931440N07Rik	0.0377	0.5115
NM_198649	D930036B08Rik	0.0129	0.5087
NM_201256	Eif4ebp3	0.0400	0.5077
NM_011625	Ppp1r13b	0.0353	0.5076
NM_028807	1200009I06Rik	0.0281	0.5073
AK085676	D730008J19Rik	0.0374	0.5071
NM_011025	Oxt	0.0260	0.5067
XM_130063	4931423N10Rik	0.0295	0.5062
NM_010208	Fgr	0.0020	0.5057
NM_177698	D430018P08	0.0051	0.5039
NM_011569	Tekt1	0.0479	0.5032
NM_172536	Zfp609	0.0149	0.5031
AK005208	Wiz	0.0445	0.5026

NM_027332	2310066N05Rik	0.0128	0.5015
	1700064M15Rik	0.0291	0.5010
NM_153155	C1ql3	0.0385	0.5000
NM_175352	AA407659	0.0234	0.4995
XM_148411	2310061J03Rik	0.0359	0.4995
	1110001D16Rik	0.0038	0.4990
XM_145254	A630082K20Rik	0.0229	0.4978
AK087122	E030028L09Rik	0.0167	0.4966
	C230006B22Rik	0.0335	0.4960
AK029623	4930415C24Rik	0.0450	0.4958
AK086837	E030003O11Rik	0.0274	0.4957
XM_138990	LOC239037	0.0346	0.4945
XM_149067	2410088K16Rik	0.0376	0.4925
AK087416	Cabp5	0.0049	0.4910
NM_025662	Pigk	0.0205	0.4894
AK048541	Atp7a	0.0458	0.4890
NM_020610	Nrip3	0.0107	0.4888
NM_172683	Pogz	0.0125	0.4887
NM_008399	Itgae	0.0005	0.4883
NM_026212	Agpat2	0.0084	0.4872
NM_177088	4732496G21Rik	0.0425	0.4871
NM_007468	Apoa4	0.0373	0.4869
NM_153743	Dnmt3a	0.0021	0.4866
NM_198167	BC026370	0.0453	0.4839
NM_134021	Al415282	0.0134	0.4834
AK034394		0.0232	0.4833
XM_357316	LOC383899	0.0228	0.4811
		0.0387	0.4811
		0.0057	0.4809
NM_145842	V1re9	0.0093	0.4808
NM_145557	9430015G10Rik	0.0311	0.4808
AK033371	8430408J21Rik	0.0497	0.4796
	Sult2a1	0.0346	0.4785
NM_011536	Tbx4	0.0122	0.4778
XM_195629	LOC269859	0.0244	0.4770
AK084888	D430006A07Rik	0.0052	0.4768
NM_178409	Eml5	0.0015	0.4764
AK040719	A530020A01Rik	0.0072	0.4751
NM_028604	2410075D05Rik	0.0291	0.4740
	9030201C23Rik	0.0268	0.4732
NM_134248	Havcr1	0.0419	0.4721
NM_053111	Ear6	0.0483	0.4717
AK031385	6030419I20Rik	0.0277	0.4709
NM_153504	5830442J12Rik	0.0340	0.4706
NM_146317	Olfr725	0.0440	0.4687
NR_001581	Speer6-ps1	0.0324	0.4678
AK036189	Spock1	0.0362	0.4678
AK085050	Nf1	0.0496	0.4669
XM_136364	C130085G02Rik	0.0299	0.4659
	2900019G14Rik	0.0361	0.4650
NM_175677	9230105E10Rik	0.0406	0.4631
XM_357657	LOC384455	0.0068	0.4627
XM_354690	2610021K21Rik	0.0415	0.4617
	4930596K11Rik	0.0328	0.4605
NM_023784	2310016N21Rik	0.0270	0.4605
NM_007776	Crygd	0.0284	0.4604
XM_140035	LOC210573	0.0308	0.4602
XM_142222	LOC209203	0.0430	0.4591
AK080306	Parg	0.0229	0.4587
NM_181818	Olfr141	0.0059	0.4587
AK084869	D430004H20Rik	0.0096	0.4584
XM_123435	LOC226283	0.0383	0.4582
	4930517O19Rik	0.0047	0.4581
NM_008602	Miz1	0.0100	0.4564
AK048477	C130064E22Rik	0.0363	0.4553
NM_172607	9130210N20Rik	0.0302	0.4533
XM_142014	Ckt1	0.0036	0.4531
NM_013483	Btn1a1	0.0154	0.4531

AK020408	Sast-pending	0.0169	0.4524
NM_146636	Olfr1487	0.0450	0.4524
AK087972	E430001K23Rik	0.0057	0.4522
		0.0377	0.4520
	1700006D18Rik	0.0448	0.4518
NM_153421	Phc3	0.0194	0.4511
AK003858	1110020G09Rik	0.0334	0.4499
XM_144125	G630052C06Rik	0.0051	0.4499
NM_025555	2410004B18Rik	0.0286	0.4498
NM_198959	Hcrtr1	0.0423	0.4497
NM_199055	Chst9	0.0244	0.4497
NM_178688	Ablim1	0.0162	0.4493
NM_133247	Usp33	0.0431	0.4491
NM_201353	Slc6a7	0.0251	0.4489
NM_027530	D5Bwg0860e	0.0388	0.4486
AK032155	1810047K05Rik	0.0486	0.4480
NM_205795	Mrgprb4	0.0352	0.4470
AK034644	9430018C17Rik	0.0440	0.4470
NM_175500	Gpc5	0.0209	0.4461
NM_008005	Fgf18	0.0299	0.4458
NM_145424	CRAD-L	0.0464	0.4453
NM_013474	Apoa2	0.0420	0.4448
XM_355489	LOC381528	0.0329	0.4446
XM_204832	LOC277146	0.0206	0.4445
AK086772	Klhl2	0.0187	0.4439
NM_197959	3000004C01Rik	0.0018	0.4436
AK007781		0.0121	0.4434
NM_010751	Mad	0.0280	0.4429
NM_178907	Mapkapk3	0.0197	0.4427
XM_358605	LOC381520	0.0311	0.4424
NM_007841	Ddx6	0.0240	0.4424
	4933413I22Rik	0.0439	0.4420
	2610039C10Rik	0.0053	0.4420
NM_172895	4930401F20Rik	0.0184	0.4408
NM_010488	Elavl4	0.0286	0.4401
XM_356331	LOC382218	0.0176	0.4392
	E130002L11Rik	0.0205	0.4378
NM_028672	4930430E16Rik	0.0162	0.4367
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NM_013769	Tjp3	0.0360	0.4354
	4930553I04Rik	0.0097	0.4350
NM_011264	Rev3l	0.0437	0.4348
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	9430094P17Rik	0.0111	0.4329
NM_153173	Hist1h4h	0.0437	0.4325
NM_010232	Fmo5	0.0498	0.4322
XM_355732	LOC381746	0.0253	0.4312
NM_029682	1700095N21Rik	0.0182	0.4301
AK017802	5730533D17Rik	0.0484	0.4300
NM_010298	Glrp	0.0253	0.4296
NM_177671	A330090H18	0.0304	0.4295
	AW123240	0.0091	0.4293
XM_484662	Wrd43	0.0201	0.4290
NM_028494	1700034I23Rik	0.0438	0.4280
AK031397	ep	0.0091	0.4277
NM_146678	Olfr1428	0.0025	0.4264
XM_144369	LOC243117	0.0445	0.4259
AK020610	9530055J05Rik	0.0181	0.4254
NM_181821	Hcfc1r1	0.0330	0.4253
NM_007482	Arg1	0.0015	0.4253
NM_153582	Cklfsf4	0.0082	0.4250
AK008452		0.0416	0.4250
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AK016737	4933408G09Rik	0.0032	0.4246
NM_153115	Spag11	0.0216	0.4240
XM_130649	LOC228862	0.0068	0.4239
NM_172291	BC024806	0.0306	0.4237

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NM_178214	Hist2h2be	0.0099	0.4228
NM_133819	Ppp1r15b	0.0308	0.4217
NM_199036	LOC382105	0.0279	0.4205
AK035745	9530098M12Rik	0.0239	0.4205
XM_135880	1700030B21Rik	0.0466	0.4199
AK080817	B230312E02Rik	0.0375	0.4192
AK090343	G630056H24Rik	0.0393	0.4176
NM_007696	Ovgp1	0.0294	0.4171
NM_133943	Hsd3b7	0.0453	0.4170
XM_205340	LOC279691	0.0308	0.4163
XM_138506	D230016N13Rik	0.0082	0.4154
AK046833	B830020B14Rik	0.0468	0.4152
AK028877		0.0311	0.4147
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NM_133762	5830426I05Rik	0.0028	0.4138
	E030024M20Rik	0.0008	0.4135
NM_146080	BC016608	0.0454	0.4133
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	E330021A06Rik	0.0190	0.4123
NM_177723	A030011M19	0.0143	0.4118
NM_013461	Adra1a	0.0340	0.4116
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AK049064	Bcl7c	0.0295	0.4115
XM_356185	lqcf5	0.0248	0.4113
XM_148700	LOC224087	0.0353	0.4113
NM_027250	2010305A19Rik	0.0039	0.4111
NM_013830	Prpf4b	0.0267	0.4104
XM_136366	LOC226601	0.0463	0.4103
XM_356657	LOC382748	0.0406	0.4103
NM_010082	Adam28	0.0383	0.4099
NM_148927	Plekha4	0.0202	0.4091
XM_358613	LOC381544	0.0049	0.4085
XM_144916	Takrp	0.0429	0.4075
NM_010325	Got2	0.0181	0.4069
AK084139	Trrp4	0.0468	0.4068
XM_284541	Lrrfip2	0.0359	0.4063
AK046198	B230350I06Rik	0.0357	0.4062
	9130001I21Rik	0.0097	0.4053
NM_009538	Plagl1	0.0398	0.4052
XM_286742	LOC328695	0.0244	0.4050
	2700022B06Rik	0.0295	0.4035
NM_178732	D430030K24Rik	0.0470	0.4030
XM_148435	4933404G15Rik	0.0190	0.4028
XM_356951	LOC383260	0.0271	0.4024
NM_175196	1700041G16Rik	0.0338	0.4021
XM_487721	1700007J06Rik	0.0109	0.4010
AK018686	9130422I10Rik	0.0398	0.4009
	1190005N23Rik	0.0267	0.4008
AK039893	A430025I06Rik	0.0230	0.4006
NM_172616	C330027C09Rik	0.0437	0.4002
NM_011267	Rgs16	0.0046	0.3992
AK035725	Itch	0.0055	0.3991
NM_030711	Arts1	0.0144	0.3988
XM_354778	2210408I21Rik	0.0080	0.3988
NM_018775	Tbc1d8	0.0416	0.3986
NM_007385	Apoc4	0.0069	0.3964
NM_032610	Spnb4	0.0422	0.3963
XM_356531	LOC382479	0.0350	0.3962
AK034139	9330159D24Rik	0.0384	0.3957
	4930478K11Rik	0.0018	0.3955
XM_357009	LOC383364	0.0075	0.3951
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	4930529L06Rik	0.0416	0.3929
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NM_183295	4933428P19Rik	0.0263	0.3871
NM_183426	BC019206	0.0305	0.3870
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	C030033F14Rik	0.0277	0.3835
XM_486157	4931428F04Rik	0.0094	0.3831
AK005982	1700014N06Rik	0.0283	0.3828
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XM_484710	Mocos	0.0198	0.3818
NM_023233	Trim13	0.0334	0.3813
NM_172520	Arhgef19	0.0308	0.3811
XM_128169	1810041L15Rik	0.0401	0.3809
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	4930429L08Rik	0.0320	0.3763
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	2610307P16Rik	0.0157	0.3759
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	9530086O07Rik	0.0306	0.3617
	4921513D11Rik	0.0405	0.3607
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	4933439K11Rik	0.0436	0.3594
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NM_007655	Cd79a	0.0334	0.3585
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	4933400F03Rik	0.0480	0.3531
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	4921508M14Rik	0.0477	0.3506
	4930563H03Rik	0.0218	0.3505
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	9630028H03Rik	0.0053	0.3470
NM_031377	Pramel1	0.0432	0.3466
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AK051937	D230021E06Rik	0.0363	0.3464
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		0.0264	0.3460
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	B130016H12Rik	0.0176	0.3458
NM_016877	Cnot4	0.0354	0.3456
NM_027211	Anxa13	0.0349	0.3448
NM_198429	Nfatc1	0.0380	0.3445
NM_008667	Nab1	0.0365	0.3445
NM_133657	Cyp2a12	0.0469	0.3428
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XM_484092	1500005I02Rik	0.0081	0.3427
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NM_011536	Tbx4	0.0375	0.3409
XM_127414	1700001L19Rik	0.0442	0.3408
NM_146077	Trim31	0.0351	0.3390
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	C230086H14Rik	0.0460	0.3387
NM_175181	2600010E01Rik	0.0274	0.3378
	4933417J23Rik	0.0448	0.3377
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XM_204426	LOC245474	0.0476	0.3344
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XM_195305	LOC270299	0.0392	0.3280
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XM_125594	Enpp3	0.0214	0.3203
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XM_355458	LOC381501	0.0229	0.3192
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NM_145143	Mpp4	0.0189	0.3190
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XM_283282	D330001F17Rik	0.0122	0.3163
AK081512	Insrr	0.0236	0.3162
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NM_173051	Serpib1c	0.0475	0.3103
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	1810013A23Rik	0.0397	0.3066
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	5430403G16Rik	0.0451	0.3055
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AK089613	Ly78	0.0360	0.3029
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NM_183030	6330419J24Rik	0.0306	0.2932
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	1700091E21Rik	0.0365	0.2928
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XM_140860	LOC227677	0.0325	0.2843
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NM_178027	2310075A12Rik	0.0143	-0.2758
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NM_133932	Tada3l	0.0406	-0.2766
NM_134448	Dst	0.0489	-0.2776
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NM_172792	4932414J04	0.0460	-0.2797
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NM_031254	Trem2	0.0452	-0.2806
	B930003D11Rik	0.0224	-0.2807
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	4930406M16Rik	0.0403	-0.2815
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XM_134713	9230110F15Rik	0.0399	-0.2840
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NM_026327	1810048J11Rik	0.0087	-0.2858
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	1810064L21Rik	0.0442	-0.2884
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XM_359237	LOC385639	0.0227	-0.2896
AK030040	4932416K20Rik	0.0343	-0.2900
NM_010067	Dnmt2	0.0385	-0.2907
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AK084416	D230040M23Rik	0.0335	-0.2927
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AK046166	B230346A16Rik	0.0013	-0.2953
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AK014472	Snca	0.0407	-0.2970
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NM_177344	C730025P13Rik	0.0175	-0.2989

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XM_355299	LOC381338	0.0226	-0.3173
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AK049534	Orc4	0.0473	-0.3246
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XM_358743	LOC384493	0.0202	-0.3249
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AK012325		0.0267	-0.3249
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	1700028P15Rik	0.0215	-0.3315
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	3110057M17Rik	0.0047	-0.3319
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AK009252	Nphp1	0.0389	-0.3350
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NM_133968	Snapc2	0.0332	-0.3700
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XM_285690	LOC331259	0.0165	-0.4398
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AK015028	Tptf-pending	0.0388	-0.4417
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	5830418L09Rik	0.0197	-0.4489
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NM_175151	Tatdn1	0.0439	-0.4500
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NM_007400	Adam12	0.0040	-0.4506
NM_028752	0610039P13Rik	0.0419	-0.4510

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NM_008836	Phxr5	0.0174	-0.4566
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NM_011464	Spint2	0.0215	-0.4573
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NM_023597	Wdr31	0.0137	-0.4579
NM_146612	Olfr968	0.0112	-0.4589
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NM_028968	Ifitm7	0.0038	-0.4612
NM_177083	B430306N03Rik	0.0236	-0.4615
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AK088592	E430021A19Rik	0.0438	-0.4649
AK043539	A830007A13Rik	0.0241	-0.4650
AK054074	E230016K23Rik	0.0203	-0.4650
		0.0080	-0.4676
NM_008112	Gdi3	0.0081	-0.4706
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NM_175938	Btn2	0.0287	-0.4732
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	4930548G05Rik	0.0099	-0.4748
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NM_173769	9930016F01Rik	0.0030	-0.4755
NM_016718	Ninj2	0.0115	-0.4761
XM_140062	LOC224916	0.0128	-0.4781
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XM_135472	LOC236060	0.0204	-0.4810
NM_011188	Psmc2	0.0297	-0.4816
NM_008782	Pax5	0.0414	-0.4816
NM_009012	Rad50	0.0253	-0.4823
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NM_020563	Mja1l	0.0064	-0.4836
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XM_149165	LOC228094	0.0096	-0.4848
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	4930442M18Rik	0.0449	-0.5151
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NM_177282	5330438E18Rik	0.0062	-0.7361
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XM_284227	B930050E02Rik	0.0069	-0.8983
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NM_026522	3110023E09Rik	0.0014	-1.0222
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