Supplemental table S3

Gene information

Normalized counts per sample

DESeq2 results for differential expression

Expression pattern

z-score expression values for heatmap visualization

Ensembl_Gene_ID	Gene_Symbol	Gene_Title	Gene_Type	M_NC	M_NC	M_NC	M_HFD	M_HFD	M_HFD	M_HFD	M_Reverse	M_Reverse	M_Reverse	M_Reverse	M_Reverse	M_Reverse.vs.NC			M_Reverse.vs.HFD			Pattern No.	Clustering_or	M_NC	M_NC	M_NC	M_HFD	M_HFD	M_HFD	M_HFD	M_Reverse	M_Reverse	M_Reverse	M_Reverse	M_Reverse
				Midaged_01	Midaged_02	Midaged_03	Midaged_04	Midaged_05	Midaged_06	Midaged_07	Midaged_08	Midaged_09	Midaged_10	Midaged_11	Midaged_12	linearFC.M_R.vs.NC	p.value.M_R.vs.NC	padj.M_R.vs.NC	pass.M_R.vs.NC	linearFC.M_R.vs.HFD	p.value.M_R.vs.HFD	padj.M_R.vs.HFD	pass.M_R.vs.HFD			Midaged_01	Midaged_02	Midaged_03	Midaged_04	Midaged_05	Midaged_06	Midaged_07	Midaged_08	Midaged_09	Midaged_10	Midaged_11	Midaged_12
ENSMUSG00000054568	Usp17la	ubiquitin specif	protein_coding	3	7	2	5	9	13	17	8	9	9	13	17	2.78	0.00722			2.86	0.00452	0.0429 up		1.03	0.922	1	1	1	-1.44603682	-0.2967816	-1.90166247	-0.68037257	0.0566109	0.78563623	1.29964266	-0.02325274	0.00121609	0.06926802	0.79754576	1.3381891
ENSMUSG00000035842	Ddx11	DEAD/H box he	protein_coding	29	46	35	48	60	77	86	39	67	61	70	75	1.64	0.0131	0.15		1.74	0.00466	0.0436 up		1.06	0.749	1	1	1	-1.71411424	-0.5933677	-1.26889009	-0.45729734	0.1804823	1.03590621	1.41558557	-1.03356183	0.53984191	0.27468596	0.68310916	0.93763323
ENSMUSG00000029095	Ablim2	actin-binding l	protein_coding	2,228	2,411	2,275	2,535	2,677	2,660	2,843	2,477	2,621	2,621	2,679	2,819	1.13	0.00106	0.0533		1.14	0.00036	0.00874 up		1.01	0.805	1	1	1	-1.82243319	-0.8010987	-1.55489381	-1.14733678	0.56468223	0.47738005	1.34907425	-0.4515181	0.28796851	0.28715828	0.57271461	1.23836268
ENSMUSG00000084974	Gm15567	predicted gene	lncRNA	27	48	30	43	65	62	76	49	70	52	69	75	1.7	0.00095	0.0517		1.81	0.00138	0.00473 up		1.06	0.658	1	1	1	-1.8672762	-0.3657085	-1.58431451	-0.68798216	0.61345887	0.41494505	1.11560396	-0.27125365	0.83480091	-0.08857984	0.79221411	1.09413433
ENSMUSG00000051977	Prdm9	PR domain conf	protein_coding	72	74	68	74	89	111	149	89	105	106	126	113	1.47	0.00293	0.0784		1.55	0.00459	0.0102 up		1.05	0.657	1	1	1	-1.09170438	-0.9666165	-1.28545419	-0.99336218	-0.29997197	0.58018723	1.90331879	-0.33315356	0.33137045	0.37116034	1.15438736	0.65983817
ENSMUSG00000114278	Gm49027	predicted gene	protein_coding	18	41	40	52	58	63	126	57	64	83	70	95	1.98	0.00442	0.0378 up		2.08	0.00129	0.00453 up		1.05	0.677	1	1	1	-2.05312002	-0.7744067	-0.82465961	-0.32811992	-0.08226374	0.06646002	1.88373071	-0.14613748	0.11438295	0.72988693	0.33939982	1.07484101
ENSMUSG00000023088	Abcc1	ATP-binding ca	protein_coding	637	624	571	633	720	683	777	730	733	751	660	778	1.18	0.00331	0.0809		1.19	0.00199	0.0257 up		1.01	0.924	1	1	1	-0.7954026	-0.9995058	-1.88534775	-0.8564286	0.45173137	-0.08419129	1.24238953	0.59026966	0.63918474	0.88751329	-0.64739032	1.25727454
ENSMUSG00000019436	Vasn	vasn	protein_coding	281	314	337	313	311	347	323	385	318	255	377	352	1.43	0.00358	0.104		1.43	0.00389	0.0977 up		1.01	0.917	1	1	1	-1.48007752	-1.3520984	-1.20706233	-0.65665946	-0.0447708	0.78537408	0.42379842	1.29865428	1.39195038	0.35696419	-0.65938589	1.19195208
ENSMUSG00000091952	Gm17709	predicted gene	pseudogene	28	38	27	57	55	70	62	67	67	89	66	60	63	1.79	0.00295	0.0335 up		1.88	0.0005	0.00272 up		1.05	0.742	1	1	1	-1.72238392	-1.02589592	-1.78406918	-0.66617097	0.69786425	0.28271837	0.52459581	0.54521748	1.49804468	0.48400494	0.19462226	0.37146622
ENSMUSG00000097585	E230029C05Rik	RIKEN cDNA E2	lncRNA	80	78	59	100	110	96	127	103	141	107	97	115	1.38	0.0083	0.119		1.45	0.00131	0.0198 up		1.06	0.623	1	1	1	-0.92411644	-1.02554827	-2.08721181	-0.01561057	0.45896132	-0.13074896	1.64851181	0.30273058	-0.13011228	0.64244212	0.61465179	0.90496253
ENSMUSG00000071550	Cfap44	cilia and flagell	protein_coding	329	294	337	559	558	613	593	725	612	597	695	562	1.62	0.00019	0.0191 up		1.61	0.00002	0.00165 up		1.01	0.93	1	1	1	-1.56271752	-1.80822025	-1.40884317	0.39817967	0.20178177	0.52452293	0.40749849	1.10867105	0.51721641	0.43322606	0.96332666	0.22562788
ENSMUSG00000079015	Gm11033	predicted gene	lncRNA	8	5	12	21	29	20	29	31	24	29	21	31	2.37	0.00306	0.0338 up		2.35	0.00306	0.0338 up		1.01	0.966	1	1	1	-1.45273893	-0.7581485	-1.19000803	0.26549443	0.03295829	0.79606883	0.92143538	0.50558215	0.37596421	0.74064119	0.03301246	0.96295698
ENSMUSG00000109245	Gm44860	predicted gene	TEC	23	20	23	37	34	43	53	38	47	39	43	41	1.46	0.00102			1.64	0.00326	0.0352 up		1.06	0.616	1	1	1	-1.36879799	-1.70049847	-1.37255085	0.05186721	-0.24364199	0.53101611	1.57289919	0.78779674	0.20265151	0.50242735	0.31701355	0.71981763
ENSMUSG00000112667	Gm48270	predicted gene	processed_pseudogene	271	269	252	476	430	491	484	485	506	433	514	550	1.49	0.00169	0.063		1.58	0.00029	0.00771 up		1.06	0.643	1	1	1	-1.51688598	-1.54540011	-1.77436932	0.46739308	0.08600431	0.58537001	0.53188943	0.53911043	0.70178221	0.11224106	0.75867263	1.02351726
ENSMUSG00000019838	Slc16a10	solute carrier f	protein_coding	88	95	96	141	138	142	162	134	138	136	139	159	1.38	0.00283	0.0767		1.35	0.00382	0.087 up		-1.02	0.841	1	1	1	-1.82069047	-1.48971729	-1.44519767	0.47880297	0.37310274	0.54219789	1.27093167	0.19925128	0.37571934	0.29319228	0.40436926	0.81803801
ENSMUSG00000091457	Gm43343	predicted gene	lncRNA	31	37	20	27	25	31	40	28	33	30	35	57	2.13	0.00144	0.0391 up		2.33	0.00023	0.00637 up		1.1	0.638	1	1	1	-1.71538512	-1.63797366	-1.3491417	-0.12447733	-0.00494716	0.50400668	1.09716631	0.2288133	0.65585156	0.41629389	0.80242147	0.89841728
ENSMUSG00000095430	Vmn1r72	vomeronasal 1	protein_coding	9	14	17	23	37	22	46	20	32	33	37	28	1.79	0.0108			1.88	0.00447	0.0426 up		1.05	0.812	1	1	1	-1.8889023	-1.22221284	-0.99777169	0.31493925	0.87146098	-0.31540847	1.54029408	0.58595158	0.03865024	0.62855258	0.87305586	0.20211705
ENSMUSG00000109139	Gm44798	predicted gene	TEC	0	0	2	4	8	7	13	6	3	11	15	10	5.81	0.00636			7.45	0.00148	0.0212 up		1.28	0.563	1	1	1	-1.7224138	-1.7224138	-0.78069397	-0.18716345	0.38282819	0.23993722	1.01599372	0.09094665	-0.30605413	0.82625274	1.25781811	0.90496253
ENSMUSG00000115918	A930001M01R	RIKEN cDNA A9	lncRNA	2	5	2	3	13	15	22	6	6	22	10	14	4.05	0.00256			4.05	0.00173	0.0235 up		1	0.998	1	1	1	-1.33204417	-0.5741335	-1.25507116	-1.05676354	0.5263196	0.70134475	1.40033079	-0.39388275	1.42704639	0.96004402	-0.56514984	0.15623824
ENSMUSG00000022471	Xrcc6	X-ray repair co	protein_coding	342	379	320	333	482	445	408	371	434	438	403	381	1.24	0.00182	0.0652		1.21	0.00486	0.0448 up		-1.03	0.702	1	1	1	-1.07676674	-0.2706377	-1.57640849	-1.28169059	1.67504948	1.01796914	0.30152767	-0.44775683	0.8031876	0.87367362	0.2117165	-0.22986367
ENSMUSG00000055705	Eri2	exoribonuclease	protein_coding	288	327	265	355	341	358	355	302	325	392	326	349	1.19	0.0116	0.141		1.23	0.00216	0.0272 up		1.03	0.628	1	1	1	-0.84553399	-0.1150278	-1.04900257	-1.79991871	0.45850143	0.8632635	0.77721228	-0.50403042	0.08474716	1.66384171	0.01155885	0.64195851
ENSMUSG00000025078	Nhlrc2	NHL repeat con	protein_coding	590	645	646	589	754	831	709	674	819	757	709	765	1.2	0.0127	0.148		1.24	0.00331	0.0356 up		1.03	0.677	1	1	1	-1.50098357	-0.7559428	-0.73687784	-1.51350033	0.59409462	1.4582218	0.6652993	-0.37029884	0.13306575	0.63864204	0.05830047	0.72999125
ENSMUSG00000043015	Nemp2	nuclear envelop	protein_coding	133	176	170	172	216	263	196	207	260	242	211	209	1.35	0.00138	0.0575		1.42	0.00158	0.00519 up		1.05	0.606	1	1	1	-2.03077736	-0.6966048	-0.8688327	-0.81169567	0.34082431	1.42643357	-0.15363937	0.11627854	1.3488236	0.94609087	0.21573969	0.16735899
ENSMUSG00000040044	Orc3	origin recogniti	protein_coding	1,104	1,222	1,157	1,203	1,290	1,363	1,271	1,269	1,362	1,368	1,291	1,171	1.11	0.00747	0.114		1.11	0.00551	0.0485 up		1	0.972	1	1	1	-1.83174287	-1.07032646	-1.16697951	-0.5998679	-0.40822011	1.21350757	0.19637003	0.17680985	1.20546151	1.22651764	0.42248922	-0.91905871
ENSMUSG00000037362	Jade3	jade family PHD	protein_coding	268	309	285	329	343	378	349	321	331	353	355	320	1.2	0.00781	0.0767		1.19	0.00431	0.0416 up		-1.01	0.81	1	1	1	-1.19009784	-0.5046707	-1.18678033	-0.95649261	-0.35638459	0.15797763	0.73196887	0.13197417	0.01001503	0.80066512	0.8791957	0.98041128
ENSMUSG00000000976	Heatr6	HEAT repeat co	protein_coding	521	555	534	536	641	758	702	633	717	738	655	643	1.27	0.00123	0.0455 up		1.28	0.00674	0.013 up		1.01	0.897	1	1	1	-1.42805814	-0.9582054	-1.24735452	-1.21802313	0.10262649	1.39119976	0.79432605	0.01277985	0.96578831	1.18450859	0.27077549	0.1296366
ENSMUSG00000035673	Sbno2	strawberry not	protein_coding	375	442	405	417	504	573	550	593	562	463	1.32	0.0002222	0.0307 up		1.32	0.00014	0.00509 up		1	0.994	1	1	1	-1.70494039	-0.6984327	-1.23848348	-1.05844845	0.14148328	1.04272954	0.97915746	0.18002767	0.70768168	1.2084406	0.85063742	-0.40980807
ENSMUSG00000047515	BC049715	cDNA sequence	protein_coding	17	39	20	21	27	31	63	40	35	49	44	33	1.69	0.0115			1.75	0.00572	0.0496 up		1.04	0.838	1	1	1	-1.50448151	-0.37763236	-1.20743856	-1.13177837	-0.59592704	-0.23586735	1.87768375	0.47560517	0.04708109	1.06985117	0.73252678	0.09511252
ENSMUSG00000019777	4933427D14Rik	RIKEN cDNA 49	protein_coding	422	1,045	773	626	948	945	1,057	1,066	1,067	1,107	1,019	1,053	1.41	0.00538	0.1		1.48	0.00171	0.0184 up		1.06	0.649	1	1	1	-1.56271161	-0.5328033	-0.16825648	-1.28390908	0.1754585	1.10620281	1.76459028	0.44031039	0.61054052	0.74659248	0.44031039	0.53060414
ENSMUSG00000018537	P3h3	prolyl 3-hydrox	protein_coding	4,415	5,204	4,492	6,108	6,753	7,649	6,400	6,723	6,488	6,807	7,375	7,671	1.29	0.00183	0.0652		1.33	0.00055	0.0109 up		1.03	0.903	1	1	1	-1.85120489	-1.1085948	-1.1254394	-0.61190776	-0.62352682	-0.90104774	0.78402469	0.96197113	0.45610148	0.94129855	0.70367166	0.96738266
ENSMUSG00000035107	Dcbld2	discoidin, CUB	protein_coding	856	976	928	1,457	1,407	1,808	1,272	1,386	1,357	1,365	1,534	1,648	1.39	0.00067	0.0458 up		1.41	0.00445	0.0101 up		1.01	0.922	1	1	1	-1.78515859	-1.24250558	-1.45278513	0.47231111	0.32011298	1.43270537	-0.11993623	0.25312943	0.16114829	0.18767321	0.70137641	1.07192874
ENSMUSG00000040044	Orc3	origin recogniti	protein_coding	1,104	1,222	1,157	1,203	1,290	1,363	1,271	1,269	1,362	1,368	1,291	1,171	1.11	0.00747	0.114		1.11	0.00551	0.0485 up		1	0.972	1	1	1	-1.83174287	-1.07032646	-1.16697951	-0.5998679	-0.40822011	1.21350757	0.19637003	0.17680985	1.20546151	1.22651764	0.42248922	-0.91905871
ENSMUSG00000037362	Jade3	jade family PHD	protein_coding	268	309	285	329	343	378	349	321	331	353	355	320	1.2	0.00781	0.0767		1.19	0.00431	0.0416 up		-1.01	0.81	1	1	1	-1.19009784	-0.5046707	-1.18678033	-0.95649261	-0.35638459	0.15797763	0.73196887	0.13197417	0.01001503	0.80066512	0.8791957	0.98041128
ENSMUSG00000000976	Heatr6	HEAT repeat co	protein_coding	521	555	534	536	641	758	702	633	717	738	655	643	1.27	0.00123	0.0455 up		1.28	0.00674	0.013 up		1.01	0.897	1	1	1	-1.42805814	-0.9582054	-1.24735452	-1.21802313	0.10262649	1.39119976	0.79432605	0.01277985	0.96578831	1.18450859	0.27077549	0.1296366
ENSMUSG00000035673	Sbno2	strawberry not	protein_coding	375	442	405	417	504	573	550	593	562	463	1.32	0.0002222	0.0307 up		1.32	0.00014	0.00509 up		1	0.994	1	1	1	-1.70494039	-0.6984327	-1.23848348	-1.05844845	0.14148328	1.04272954	0.97915746	0.18002767	0.70768168	1.2084406	0.85063742	-0.40980807
ENSMUSG00000047515	BC049715	cDNA sequence	protein_coding	17	39	20	21	27	31	63	40	35	49	44	33	1.69	0.0115			1.75	0.00572	0.0496 up		1.04	0.838	1	1	1	-1.50448151	-0.37763236	-1.20743856	-1.13177837	-0.59592704	-0.23586735	1.87768375	0.47560517	0.04708109	1.06985117	0.73252678	0.09511252
ENSMUSG00000035649	Zcchc7	zinc finger, CCH	protein_coding	1,363	1,630	1,407	2,141	2,063	2,310	2,106	2,102	2,056	2,077	2,202	2,535	1.31	0.00076	0.0518		1.35	0.00201	0.00598 up		1.03	0.681	1	1	1	-1.89483751	-0.9839568	-1.73566093	-0.43487409	0.23936343	0.83711904	0.34865183	0.51003064	0.30100319	0.25839093	0.28826289	0.94558776
ENSMUSG00000048151	Kmt2e	lysine (K)-specifi	protein_coding	4,415	5,204	4,492	6,108	6,753	7,649	6,400	6,723	6,488	6,807	7,375	7,671	1.29	0.00183	0.0652		1.33	0.00055	0.0109 up		1.03	0.903	1	1	1	-1.85120489	-1.1085948	-1.1254394	-0.61190776	-0.62352682	-0.90104774	0.78402469	0.96197113	0.45610148	0.94129855	0.70367166	0.96738266
ENSMUSG00000094488	Or1e33	olfactory recep	protein_coding	86	136	80	187	196	224	169	191	185	177	202	215	1.59	0.0011	0.0533		1.59	0.001	0.0168 up		-1.01	0.991	1	1	1	-1.85307063	-0.6095418	-1.20492442	0.3816151	0.54693428	1.00769937	0.0571004	0.45609716	0.34460345	0.21141142	0.64236929	0.86420638
ENSMUSG00000104498	Gm37110	predicted gene	TEC	204	284	221	415	405	449	328	382	391	361	420	455	1.39	0.00369	0.0842		1.45	0.001	0.0168 up		1.04	0.715	1	1	1	-1.95853886	-0.8152938	-1.69995923	0.65042927	0.55204819	0.98017396	-0.27614211	0.31798841	0.41637449	0.09904405	0.69771616	1.03616508
ENSMUSG00000043314	Or2z2	olfactory recep	protein_coding	20	28	21	52	60	68	41	58	59	41	70	77	1.87	0.00255	0.0746		2.03	0.00047	0.0105 up		1.09	0.656	1	1	1	-1.66918026	-1.08625753	-1.58304081	0.21768803	0.59116551	0.91397306	-0.33066287	0.4779606	0.52044186	-0.31040462	0.9865765	1.2717405
ENSMUSG00000028292	Rars2	arginyl-tRNA sy	protein_coding	387	467	422	515	553	558	605	531	513	544	558	603	1.21	0.00179	0.065		1.24	0.00218	0.00629 up		1.03	0.616	1	1	1	-1.24	-0.5122799	-0.5132979	-1.42521344	-0.38829857	1.176839	-0.06045899	0.59168497	0.73179569	0.90911113	0.63894916	0.57128469
ENSMUSG00000040620	Dhx33	DEAH (Asp-Glu	protein_coding	556	786	651	729	735	863	917	855	802	840	902	852	1.24	0.00129	0.0562		1.25	0.00073	0.0137 up		1.01	0.907	1	1	1	-1.31462548	-0.0121687	-1.27708609	-0.50878634	-0.45560202	0.66793021	1.10070026	0.59826482	0.15534303	0.47216368	0.97698844	0.57254362
ENSMUSG00000091491	Vmn2r97	vomeronasal 2	protein_coding	153	254	203	275	266	280	309	332	293	291	321	308	1.35	0.0029	0.0779		1.37	0.00129	0.0196 up		1.02	0.845	1	1	1	-2.49848996	-0.3010341	-1.31681817	0.08614719	-0.06696133	0.17621196	0.65792793	1.01913653	0.39694345	0.35625254	0.85235306	0.6383309
ENSMUSG00000029382	Cc2d2a	coiled-coil and	protein_coding	860	970	957	1,067	1,090	1,085	1,156	1,075	1,090	1,138	1,080	1,066	1.14	0.00801	0.0491 up		1.14	0.00105	0.0173 up		-1.01	0.867	1	1	1	-2.38142106	-0.9535828	-1.20044679	0.19644019	0.45063455	0.39426079	1.27261817	0.28363287	0.44821631	0.97816965	0.34530113	0.18614247
ENSMUSG00000024115	Pwp1b	periodic tryptho	protein_coding	4,415	5,204	4,492	6,108	6,753	7,649	6,400	6,723	6,488	6,807	7,375	7,671	1.29	0.00183	0.0652		1.33	0.00055	0.0109 up		1.03	0.903	1	1	1	-1.85120489	-1.1085948	-1.1254394	-0.61190776	-0.62352682	-0.90104774	0.78402469	0.96197113	0.45610148	0.94129855	0.70367166	0.96738266
ENSMUSG00000039087	Rreb1	ras responsive	protein_coding	1,309	2,079	1,641	2,262	2,444	2,940	2,954	2,468	2,987	2,913	2,883	2,563	1.48	0.00213	0.0307 up		1.56	0.0000303	0.00184 up		1.05	0.643	1	1	1	-1.83630309	-0.8513086	-1.33230963	-0.69451945	0.42683653	1.37703032	-0.10461208	0.30555023	0.34269912	0.3394223	0.92851587	1.12609852
ENSMUSG00000042542	Cep192	centrosomal pr	protein_coding	316	378	334	506	479	585	450	440	486	508	510	479	1.27	0.00757	0.115		1.29	0.00388	0.039 up		1.02	0.852	1	1	1	-1.88147444	-0.9610463	-1.59817709	0.64643022	0.33924179	1.48934881	-0.01464012	-0.13382278	0.42248645	0.66775095	0.69147594	0.33242721
ENSMUSG00000108857	Gm44578	predicted gene	processed_pseudogene	16	21	9	48	52	75	35	37	58	46	57	45	2.08	0.00247			2.16	0.00117	0.0184 up		1.04	0.858	1	1	1	-1.37625703	-1.00384454	-1.9943066	0.4230827	0.57337231	1.43908218	-0.21148319	-0.07631345	0.82867029	0.32645262	0.78509436	0.28645034
ENSMUSG00000093866	Or6c1	olfactory recep	protein_coding	32	17	9	23	31	40	20	27	29	27	35	31	1.85	0.00668	0.139		1.93	0.00286	0.0323 up		1.04	0.834	1	1	1	-1.38314722	-0.8130285	-1.97366346	-0.10025631	0.61450624	1.40605753	-0.57240362	0.29797539	0.03616329	0.47904503	0.58193082	0.65122071
ENSMUSG00000095385	Or4a74	olfactory recep	protein_coding	163	217	155	229	275	379	288	249	278	317	305	303	1.44	0.00891	0.0505		1.48	0.00284	0.00749 up		1.12	0.994	1	1	1	-1.75712184	-0.9286915	-1.93996621	-0.10538266	0.19311223	1.14871242	0.21605492	0.02536262	0.77221009	0.60783235	0.58856333	0.36618172
ENSMUSG00000102349	Gm37376	predicted gene	TEC	330	411	298	713	925	1,093	691	905	743	790	981	1,289	2.06	0.00196	0.0674		2.17	0.00912	0.0158 up		1.05	0.828	1	1	1	-1.57007188	-1.15528315	-1.75524948	0.00073438	0.5918517	0.98510154	-0.06820352	0.54108003	0.09010578	0.22907576	0.72931303	1.38154581
ENSMUSG00000021431	Snrnp48	small nuclear ri	protein_coding	784	776	760	939	888	1,061	843	1,022	905	863	1,030	1,016	1.19	0.003	0.0792		1.19	0.00276	0.0315 up		-1	0.987	1	1	1	-1.01921021	-1.10356939	-1.84955083	0.35596672	-0.07695845	1.31274803	-0.4730768	1.02029766	0.07145116	-0.29050733	1.0812665	0.97114293
ENSMUSG00000028402	Mpdz	multiple PDZ d	protein_coding	2,287	2,195	2,082	2,906	2,704	3,196	2,974	3,089	2,634	2,457	3,349	3,346	1.26	0.0032	0.0804		1.24	0.00574	0.0498 up		-1.02	0.847	1	1	1	-1.08401609	-1.3303709	-1.64413168	0.3639605	-0.07267186	0.94669074	0.50582035	0.7377668	-0.23365089	-0.65354202	1.23454276	1.22960228
ENSMUSG00000038382	Rexo3	exonuclease	protein_coding	1,855	1,804	1,603	2,162	2,073	2,049	2,032	2,015	2,142	2,079	2,103	2,126	1.15	0.0015	0.0203 up		1.24	0.00798	0.118		-1.08	0.767	1	1	1	-1.83814355	-0.5085024	-1.85942978	-0.41538654	0.28868919	0.93594568	0.42764775	0.08363051	0.82688222	-0.46324898	0.60537354	0.35208481
ENSMUSG00000079070	Gm3985	predicted gene	TEC	17	20	9	31	39	37	37	33	40	35	41	33	1.26	0.0012	0.118		1.33	0.00008	0.00574 up		1.03	0.64	1	1	1	-1.29362739	-0.8858476	-1.27476488	0.09980978	0.72746301	0.56348012	0.59700556	0.22202679	0.77146854	0.43013176	0.89288717	0.24996711
ENSMUSG00000108199	Gm44249	predicted gene	TEC	44	38	24	75	73	97	64	75	89	70	70	80	1.7	0.00456	0.0922		1.7	0.00367	0.0378 up		1	0.984	1	1	1	-0.98153647	-1.3059484	-2.20587636	0.42492863	0.35460596	1.24036443	-0.01382231	0.41846052	0.9759276	0.24447562	0.23320174	0.61521904
ENSMUSG00000109105	Gm44873	predicted gene	TEC	64	66	66	87	101	92	110	87	101	101	99	106	96	1.44	0.0123	0.146		1.49	0.00545	0.0482 up		1.03	0.849	1	1	1	-1.09133968	-0.9173586	-1.51100035	0.58037886	0.20842524	0.89885054	0.91963018	0.76828936	0.36489804	0.36489804	0.76828936	0.36489804
ENSMUSG00000053925	Gm9929	predicted gene	lncRNA	60	66	51	115	141	115	94	105	120	97	125	115	1.48	0.00417	0.089		1.55	0.00178	0.0117 up		1.04	0.74	1	1	1	-1.50895289	-1.21565277	-1.99313094	0.6322368	0.8253134	0.45142466	-0.1008021	0.31634343	0.80276224	0.01850265	0.94963808	0.56831748
ENSMUSG00000023665	Gm14411	predicted gene	processed_pseudogene	53	67	75	41	55	58	46	49	69	51	52	58	1.97	0.00985	0.052		1.85	0.00239	0.00289 up		-1.06	0.736	1	1	1	-1.34313713	-0.9533942	-1.77347223	-0.11831217	-0.08277952	1.4783124	0.23078844	0.23077844	0.58893956	0.61337567	0.80257218	0.58893956
ENSMUSG00000115148	Gm49125	predicted gene	lncRNA	50	83	35	133	139	115	146	146	113	132	153	158	1.82	0.00113	0.0538		1.8	0.00119	0.0187 up		-1.01	0.961	1	1	1	-1.63045855	-0.6695532	-2.2305365	0.45465743	0.73746336	0.56088489	0.08768702	0.69918146	0.70095515	0.03924145	0.42326858	0.82720901
ENSMUSG00000059429	Or1l4	olfactory recep	protein_coding	301	387	270	511

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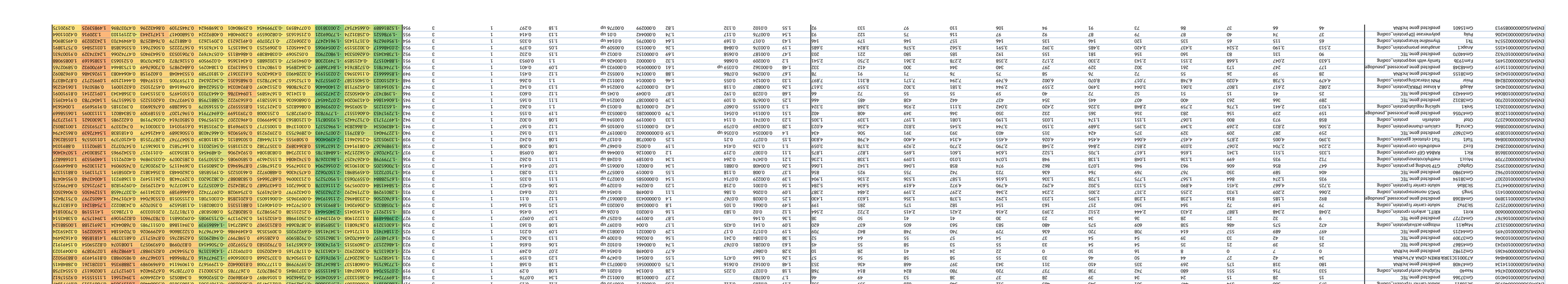

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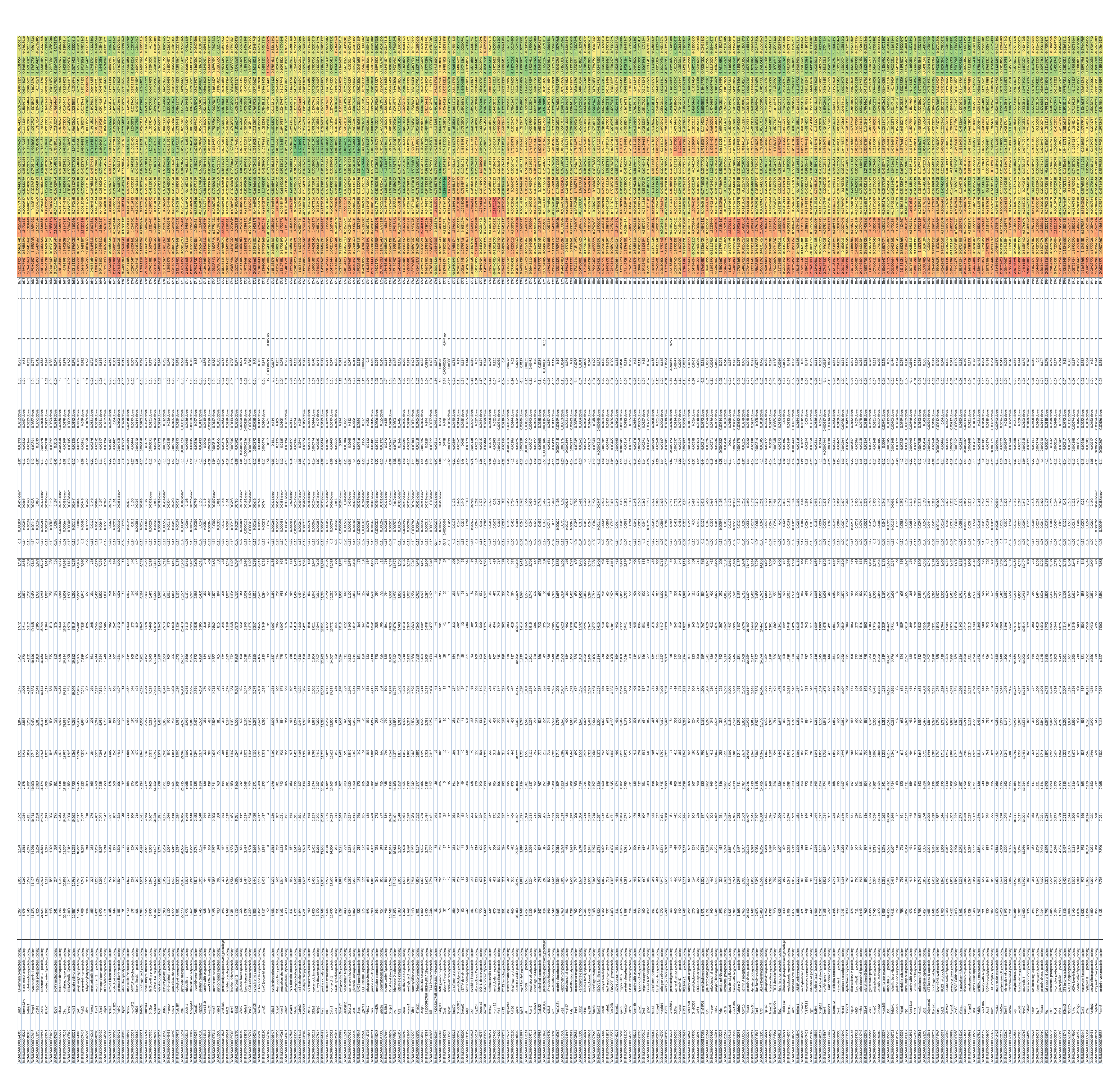

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ENSMUSG00000027602	Map1lc3a	microtubule-as	protein_coding	2,227
ENSMUSG00000013646	Sh3bp5l	SH3 binding do	protein_coding	929
ENSMUSG00000014349	Ube2z	ubiquitin-conju	protein_coding	2,566
ENSMUSG00000029405	G3bp2	GTPase activati	protein_coding	12,783
ENSMUSG00000004383	Large1	LARGE xylosyl-	protein_coding	1,974
ENSMUSG00000035764	Fbxo45	F-box protein 4	protein_coding	1,493
ENSMUSG00000017639	Rab11fip4	RAB11 family in	protein_coding	8,550
ENSMUSG00000042604	Kcna4	potassium volta	protein_coding	707
ENSMUSG00000003721	Insig2	insulin induced	protein_coding	1,325
ENSMUSG00000046791	Riox1	ribosomal oxyg	protein_coding	227
ENSMUSG00000072437	Nanos1	nanos C2HC-ty	protein_coding	1,167
ENSMUSG00000041040	Fam117b	family with seq	protein_coding	2,868
ENSMUSG00000049657	Zbtb5	zinc finger and	protein_coding	440
ENSMUSG00000055943	Emc7	ER membrane	protein_coding	3,564
ENSMUSG00000007944	Ttc9b	tetratricopepti	protein_coding	563
ENSMUSG00000020376	Rnf130	ring finger prot	protein_coding	4,638
ENSMUSG00000023367	Tmem176a	transmembran	protein_coding	850
ENSMUSG00000002602	Axl	AXL receptor ty	protein_coding	1,506
ENSMUSG00000043257	Pigv	phosphatidylin	protein_coding	313
ENSMUSG00000109523	Gdf1	growth differen	protein_coding	52
ENSMUSG00000058135	Gstm1	glutathione S-tr	protein_coding	5,333
ENSMUSG00000028029	Aimp1	aminoacyl tRN	protein_coding	919
ENSMUSG00000090946	Ccdc71l	coiled-coil dom	protein_coding	562

2,194	2,322	1,867	1,865	1,757	1,804
1,018	1,021	892	856	867	859
2,640	2,691	2,338	2,297	2,340	2,323
12,876	13,178	11,924	11,891	11,840	11,841
1,999	1,974	1,776	1,736	1,730	1,816
1,462	1,457	1,318	1,332	1,324	1,325
8,694	9,027	8,135	7,919	7,661	7,909
730	769	658	582	592	581
1,513	1,456	1,242	1,066	1,079	1,134
242	242	200	168	172	185
1,226	1,229	1,039	991	994	1,032
2,894	3,052	2,841	2,775	2,601	2,701
444	446	418	393	364	391
3,537	3,671	3,379	3,179	3,195	3,254
596	573	483	523	510	629
4,864	4,905	4,806	4,548	4,546	5,107
870	707	701	805	801	919
1,631	1,430	1,594	1,567	1,571	1,581
398	281	338	350	321	354
0	95	0	0	83	50
4,857	5,477	4,720	5,521	4,709	5,041
849	897	818	829	879	895
454	551	468	500	453	554

1,892	1,699	1,956	1,731	1,708	-1.18	0.00292
932	849	838	856	829	-1.1	0.0374
2,451	2,361	2,282	2,302	2,216	-1.09	0.0225
12,184	11,719	11,659	11,849	11,313	-1.06	0.0349
1,909	1,715	1,729	1,805	1,687	-1.07	0.0588
1,382	1,250	1,267	1,327	1,271	-1.07	0.0755
8,121	7,650	7,944	7,661	7,885	-1.09	0.00952
627	550	602	542	590	-1.2	0.000368
1,152	1,074	1,152	1,033	991	-1.25	0.0000429
205	157	174	170	161	-1.24	0.00282
1,049	973	995	978	988	-1.15	0.00629
2,742	2,650	2,746	2,685	2,556	-1.08	0.0152
412	378	379	381	367	-1.12	0.0295
3,418	3,211	3,288	3,213	3,084	-1.08	0.0154
535	460	445	467	439	-1.01	0.898
4,835	4,460	4,626	4,217	4,258	-1.01	0.781
666	694	697	594	606	1.02	0.767
1,589	1,471	1,400	1,135	1,131	1.02	0.7
310	290	254	214	224	1	0.961
0	0	0	0	0	-1.11	0.947
4,862	4,430	4,641	4,567	4,353	-1.01	0.746
830	795	812	747	770	-1.02	0.701
478	437	424	402	415	-1.03	0.654

0.0782		-1.21	0.000347	0.00846	down	-1.03	0.563	1
0.237		-1.14	0.00176	0.0236	down	-1.04	0.313	1
0.192		-1.12	0.00203	0.0259	down	-1.03	0.438	1
0.232		-1.09	0.0025	0.0297	down	-1.03	0.365	1
0.292		-1.11	0.00299	0.0333	down	-1.04	0.292	1
0.327		-1.12	0.00145	0.021	down	-1.05	0.168	1
0.128		-1.1	0.00214	0.027	down	-1.02	0.642	1
0.0363	down	-1.25	0.00000642	0.000749	down	-1.04	0.39	1
0.0204	down	-1.3	0.000000815	0.000231	down	-1.04	0.43	1
0.0767		-1.37	0.00000472	0.000638	down	-1.11	0.142	1
0.106		-1.18	0.000534	0.0113	down	-1.03	0.493	1
0.161		-1.1	0.00229	0.0281	down	-1.02	0.559	1
0.216		-1.16	0.00206	0.0263	down	-1.04	0.414	1
0.162		-1.11	0.00221	0.0276	down	-1.02	0.541	1
0.968		-1.22	0.00132	0.0199	down	-1.21	0.00183	1
0.923		-1.09	0.00571	0.0496	down	-1.08	0.0126	1
0.917		-1.2	0.00277	0.0316	down	-1.23	0.000865	1
0.887		-1.2	0.00329	0.0354	down	-1.23	0.00085	1
0.989		-1.35	0.00119	0.0186	down	-1.36	0.000941	1
		-240	0.001	0.0168	down	-217	0.00124	1
0.909		-1.13	0.00116	0.0184	down	-1.12	0.00337	1
0.888		-1.11	0.00573	0.0497	down	-1.1	0.0158	1
0.865		-1.21	0.000602	0.0121	down	-1.18	0.00256	1

7	2397	1.43056425	1.28895632	1.81937409	-0.20341168	-0.21357165	-0.75867924
7	2398	0.54602915	1.82986083	1.86352733	-0.03243914	-0.59721084	-0.42708939
7	2399	1.10062547	1.56533022	1.87223547	-0.39547336	-0.68020132	-0.38748453
7	2400	1.24382675	1.40259961	1.91050349	-0.27896353	-0.33935266	-0.43259386
7	2401	1.34462936	1.54614062	1.337321	-0.3770734	-0.74708753	-0.80374411
7	2402	1.72686819	1.37349696	1.31628165	-0.39046195	-0.21618459	-0.30855174
7	2403	1.0459458	1.35904431	2.0647728	0.11387606	-0.38957909	-1.01111424
7	2404	1.1081475	1.39797754	1.87029102	0.46723294	-0.61434172	-0.46394169
7	2405	0.8867831	1.88987569	1.59957232	0.40469393	-0.71583002	-0.63293042
7	2406	1.15324493	1.58365645	1.58666715	0.31438377	-0.76652345	-0.65408524
7	2407	1.19303435	1.76037442	1.78847278	-0.1371723	-0.67491139	-0.63629116
7	2408	0.80145615	0.98233843	2.06097083	0.61056009	0.13321111	-1.16616038
7	2409	1.29889884	1.42055778	1.46016518	0.57453455	-0.25956449	-1.26640249
7	2410	1.27584056	1.13304122	1.82815665	0.28092755	-0.85322143	-0.75970432
8	2411	0.74072648	1.23271877	0.8849265	-0.55139812	0.11555068	-0.1030013
8	2412	-0.02218497	0.80600751	0.95307098	0.59482099	-0.36274504	-0.37074875
8	2413	1.02475263	1.19731081	-0.29871402	-0.35230919	0.63293154	0.59928794
8	2414	0.26031562	0.90027077	-0.15797038	0.71414299	0.57673258	0.60001233
8	2415	0.22008828	1.58166373	-0.37102394	0.64927536	0.83587965	0.35919127
8	2416	1.08798336	-0.66807575	1.67278438	-0.66807575	-0.66807575	1.52577034
8	2417	1.16725101	-0.01360422	1.50427233	-0.37360402	1.60729688	-0.4051629
8	2418	1.51148955	0.24974575	1.11715702	-0.33299211	-0.11154356	0.7999878
8	2419	1.52231487	-0.3439562	1.35490474	-0.08132081	0.49715743	-0.36040812

-0.5209237	-0.08146723	-1.06861251	0.22657431	-0.89939045	-1.01941252
-0.5453446	0.58266132	-0.710085	-0.88563964	-0.59303546	-1.03123455
-0.50006447	0.35984465	-0.2412956	-0.78547929	-0.64675248	-1.26128476
-0.43076343	0.1939595	-0.65731644	-0.76935985	-0.41588157	-1.42665801
-0.01258119	0.79867741	-0.94432961	-0.81487026	-0.11935581	-1.20772647
-0.30035811	0.41674614	-1.27733343	-1.05700299	-0.27567644	-1.00782371
-0.41480043	0.08230071	-1.03790692	-0.33195302	-1.01073132	-0.46985467
-0.63660772	0.0382929	-1.11072247	-0.32878106	-1.22981204	-0.4977352
-0.26988845	-0.15404841	-0.66552201	-0.15241085	-0.94490064	-1.24539423
-0.20255492	0.47071525	-1.17500104	-0.58027535	-0.70151224	-1.02871531
-0.22025449	-0.03167136	-0.8815811	-0.63003235	-0.81923673	-0.71073066
-0.40663077	-0.10607213	-0.79240383	-0.07228023	-0.52555351	-1.51943575
-0.30272445	0.39658057	-0.7634435	-0.72886447	-0.66529035	-1.16444717
-0.42238239	0.49173238	-0.6699125	-0.22970675	-0.65781919	-1.41695177
1.70182867	0.30133264	-0.95674412	-1.21975186	-0.82071115	-1.3254772
1.65665656	0.70105909	-0.70366091	-0.0683685	-1.67628995	-1.50761701
1.60081326	-0.71097341	-0.42665103	-0.39297211	-1.50833027	-1.36514615
0.64777624	0.68835828	0.06727685	-0.32434605	-1.97348922	-1.99907999
0.91392021	0.16750817	-0.20186518	-0.88203373	-1.75023297	-1.52237083
1.05806796	-0.66807575	-0.66807575	-0.66807575	-0.66807575	-0.66807575
0.45533823	-0.00069987	-1.1715538	-0.58812179	-0.78877317	-1.39263868
1.09505192	-0.09760808	-0.77933806	-0.44772218	-1.73928304	-1.26494502
1.39087503	0.09454031	-0.67847838	-0.92125044	-1.36175103	-1.1126274