

Dataset S1. List of DE genes between RS and control (RS/C) female offspring

Gene	GeneName	RS-1_count	RS-2_count	RS-3_count	C-1_count	C-2_count	C-3_count	FoldChange	p	q	Up/Down
ENSMUSC000001	ENSMUSC000001	801	791	712	109	124	119	6.469424	2E-199	5.6E-195	up
ENSMUSC000002	ENSMUSC000002	41636	41391	36875	11044	10994	11708	3.511323	5.7E-199	8E-195	up
ENSMUSC000003	ENSMUSC000003	2436	2445	2152	779	727	814	2.995291	4E-170	2.8E-166	up
ENSMUSC000004	ENSMUSC000004	677	719	656	162	164	167	4.117115	5E-126	2.3E-122	up
ENSMUSC000005	ENSMUSC000005	855	904	739	229	243	258	3.378882	4E-116	1.6E-112	up
ENSMUSC000006	ENSMUSC000006	1007	997	830	290	289	306	3.159187	1.2E-115	4.3E-112	up
ENSMUSC000007	ENSMUSC000007	1024	988	909	312	324	322	3.013225	4.6E-110	1.4E-106	up
ENSMUSC000008	ENSMUSC000008	489	490	412	87	95	94	4.973975	6.5E-109	1.8E-105	up
ENSMUSC000009	ENSMUSC000009	109762	113318	105239	30271	30545	33592	3.443544	6E-104	1.5E-100	up
ENSMUSC000010	ENSMUSC000010	14200	13849	11912	6018	6357	6623	2.077128	2.6E-100	6.1E-97	up
ENSMUSC000011	ENSMUSC000011	2058	2046	1806	837	863	870	2.271305	2.58E-96	4.84E-93	up
ENSMUSC000012	ENSMUSC000012	826	985	828	239	215	263	3.641971	5.13E-96	9.02E-93	up
ENSMUSC000013	ENSMUSC000013	1097	1151	1027	417	405	416	2.614169	2.81E-94	4.39E-91	up
ENSMUSC000014	ENSMUSC000014	405	460	417	100	87	109	4.291332	1.56E-86	2.19E-83	up
ENSMUSC000015	ENSMUSC000015	711	772	712	232	255	285	2.819266	2.52E-82	3.22E-79	up
ENSMUSC000016	ENSMUSC000016	243	239	227	23	32	25	8.764601	2.83E-82	3.45E-79	up
ENSMUSC000017	ENSMUSC000017	3659	3631	3052	1762	1733	1755	1.942591	4.29E-79	5.03E-76	up
ENSMUSC000018	ENSMUSC000018	3020	3042	2637	1445	1483	1455	1.95898	3.31E-77	3.73E-74	up
ENSMUSC000019	ENSMUSC000019	552	586	527	178	183	209	2.892877	4.37E-70	4.09E-67	up
ENSMUSC000020	ENSMUSC000020	663	643	503	183	204	190	3.086269	9.21E-68	8.09E-65	up
ENSMUSC000021	ENSMUSC000021	1027	1059	919	258	264	348	3.42285	4.23E-67	3.6E-64	up
ENSMUSC000022	ENSMUSC000022	1688	1765	1531	778	846	843	1.996348	2.78E-66	2.3E-63	up
ENSMUSC000023	ENSMUSC000023	3181	3217	2933	1623	1687	1732	1.830201	2.14E-64	1.67E-61	up
ENSMUSC000024	ENSMUSC000024	446	472	427	103	102	134	3.935419	2.47E-64	1.88E-61	up
ENSMUSC000025	ENSMUSC000025	2022	2021	1726	943	1023	998	1.921128	8.38E-64	6.2E-61	up
ENSMUSC000026	ENSMUSC000026	418	428	406	61	90	87	5.220211	1.79E-57	1.23E-54	up
ENSMUSC000027	ENSMUSC000027	883	853	752	248	318	309	2.81169	4.13E-54	2.58E-51	up
ENSMUSC000028	ENSMUSC000028	1766	1772	1685	987	933	963	1.791831	8.2E-50	4.91E-47	up
ENSMUSC000029	ENSMUSC000029	2953	2887	2540	1565	1596	1725	1.694829	5.93E-49	3.47E-46	up
ENSMUSC000030	ENSMUSC000030	2675	2943	2654	1536	1493	1505	1.803892	8.04E-49	4.61E-46	up
ENSMUSC000031	ENSMUSC000031	755	862	697	317	355	380	2.174394	3.72E-47	2.05E-44	up
ENSMUSC000032	ENSMUSC000032	694	673	534	257	279	255	2.365462	6.42E-47	3.47E-44	up
ENSMUSC000033	ENSMUSC000033	1621	1622	1382	785	884	902	1.777095	2.58E-46	1.34E-43	up
ENSMUSC000034	ENSMUSC000034	1105	1128	994	561	563	570	1.881596	6.57E-46	3.36E-43	up
ENSMUSC000035	ENSMUSC000035	2215	2173	1956	1205	1206	1281	1.698327	3.55E-45	1.78E-42	up
ENSMUSC000036	ENSMUSC000036	718	679	597	308	304	346	2.056722	6.39E-43	2.99E-40	up
ENSMUSC000037	ENSMUSC000037	984	940	738	342	402	378	2.336733	1.25E-41	5.58E-39	up
ENSMUSC000038	ENSMUSC000038	1540	1619	1332	814	889	873	1.72044	2.2E-41	9.52E-39	up
ENSMUSC000039	ENSMUSC000039	1264	1157	1109	652	618	688	1.783324	6.76E-41	2.88E-38	up
ENSMUSC000040	ENSMUSC000040	1277	1199	1061	663	636	667	1.775568	8.13E-41	3.36E-38	up
ENSMUSC000041	ENSMUSC000041	365	420	345	59	94	99	4.447057	1.27E-39	5.12E-37	up
ENSMUSC000042	ENSMUSC000042	1302	1260	1140	677	683	740	1.742869	3.4E-39	1.35E-36	up
ENSMUSC000043	ENSMUSC000043	451	468	395	178	188	212	2.247631	4.73E-38	1.82E-35	up
ENSMUSC000044	ENSMUSC000044	1227	1216	1022	612	656	697	1.741314	5.91E-38	2.24E-35	up
ENSMUSC000045	ENSMUSC000045	413	442	417	153	157	129	2.861806	6.55E-38	2.46E-35	up
ENSMUSC000046	ENSMUSC000046	563	574	459	242	271	249	2.063681	2.96E-37	1.07E-34	up
ENSMUSC000047	ENSMUSC000047	1219	1173	1017	642	636	663	1.733387	3.63E-37	1.29E-34	up
ENSMUSC000048	ENSMUSC000048	995	1054	884	495	561	572	1.780243	4.05E-37	1.42E-34	up
ENSMUSC000049	ENSMUSC000049	84	98	65	5	6	7	13.52893	1.01E-36	3.49E-34	up
ENSMUSC000050	ENSMUSC000050	2105	2053	1784	1133	1240	1271	1.610829	1.39E-36	4.77E-34	up
ENSMUSC000051	ENSMUSC000051	343	301	262	102	109	115	2.742668	4.09E-36	1.37E-33	up
ENSMUSC000052	ENSMUSC000052	2401	2347	1947	1285	1325	1410	1.643293	3.11E-35	9.93E-33	up
ENSMUSC000053	ENSMUSC000053	1050	1135	934	590	609	613	1.698756	3.01E-33	9.18E-31	up
ENSMUSC000054	ENSMUSC000054	2250	2333	2032	1416	1403	1377	1.556216	3.19E-33	9.64E-31	up
ENSMUSC000055	ENSMUSC000055	1563	1661	1400	917	962	956	1.610306	3.34E-33	9.98E-31	up
ENSMUSC000056	ENSMUSC000056	3911	3971	3672	2474	2301	2343	1.604037	4.32E-32	1.23E-29	up
ENSMUSC000057	ENSMUSC000057	1470	1432	1210	841	819	850	1.615743	4.6E-32	1.29E-29	up
ENSMUSC000058	ENSMUSC000058	276	290	241	106	107	95	2.581252	6.69E-32	1.84E-29	up
ENSMUSC000059	ENSMUSC000059	1538	1494	1318	850	912	917	1.603865	8.35E-32	2.28E-29	up
ENSMUSC000060	ENSMUSC000060	1172	1086	1012	632	630	683	1.662365	1.77E-31	4.73E-29	up
ENSMUSC000061	ENSMUSC000061	1550	1537	1389	925	938	896	1.601931	4.99E-31	1.31E-28	up
ENSMUSC000062	ENSMUSC000062	233	249	183	72	72	81	2.911979	1.09E-30	2.76E-28	up
ENSMUSC000063	ENSMUSC000063	2256	2239	1969	1357	1379	1451	1.525252	3.21E-30	7.9E-28	up
ENSMUSC000064	ENSMUSC000064	297	288	261	117	121	106	2.425913	4.91E-30	1.2E-27	up
ENSMUSC000065	ENSMUSC000065	263	284	237	100	104	102	2.528731	5.51E-30	1.34E-27	up
ENSMUSC000066	ENSMUSC000066	281	299	261	116	114	112	2.428066	7.2E-30	1.73E-27	up
ENSMUSC000067	ENSMUSC000067	285	304	237	95	115	124	2.442841	1.19E-29	2.8E-27	up
ENSMUSC000068	ENSMUSC000068	2223	2154	2072	1400	1415	1413	1.508803	1.21E-28	2.67E-26	up
ENSMUSC000069	ENSMUSC000069	1727	1647	1454	1038	963	1002	1.58623	2.45E-28	5.26E-26	up
ENSMUSC000070	ENSMUSC000070	278	315	271	82	112	90	3.006469	6.47E-28	1.32E-25	up
ENSMUSC000071	ENSMUSC000071	631	586	522	238	273	315	2.083854	7.01E-28	1.4E-25	up
ENSMUSC000072	ENSMUSC000072	1864	1935	1697	1165	1189	1226	1.517047	6.94E-28	1.4E-25	up
ENSMUSC000073	ENSMUSC000073	1219	1203	1058	728	702	730	1.590606	7.58E-28	1.5E-25	up
ENSMUSC000074	ENSMUSC000074	1389	1424	1218	822	814	912	1.563339	8.23E-28	1.62E-25	up
ENSMUSC000075	ENSMUSC000075	850	788	699	445	463	460	1.686041	1.45E-27	2.75E-25	up
ENSMUSC000076	ENSMUSC000076	1424	1375	1220	853	864	833	1.555273	2.33E-27	4.34E-25	up
ENSMUSC000077	ENSMUSC000077	1906	1787	1546	1112	1074	1132	1.557662	5.25E-27	9.59E-25	up
ENSMUSC000078	ENSMUSC000078	1765	1800	1524	1058	1093	1170	1.51356	7.01E-27	1.25E-24	up

ENSMUS(Sfi1	613	604	549	305	346	335	1.77079	9.55E-27	1.67E-24	up
ENSMUS(Ccnl1	1159	1148	1046	699	693	703	1.581464	1.16E-26	2.01E-24	up
ENSMUS(Pik3c2a	530	537	444	265	255	297	1.826295	2.84E-26	4.75E-24	up
ENSMUS(Ccnl2	1688	1783	1606	1077	1156	1108	1.502269	6.9E-26	1.12E-23	up
ENSMUS(Tet2	601	532	486	282	267	323	1.835609	1.07E-25	1.72E-23	up
ENSMUS(Otx2	360	360	261	136	124	150	2.355196	1.42E-25	2.26E-23	up
ENSMUS(Frem1	214	186	190	63	81	72	2.704527	1.85E-25	2.92E-23	up
ENSMUS(Myef2	1172	1134	976	658	709	717	1.554766	8.98E-25	1.32E-22	up
ENSMUS(Cep162	425	436	356	215	182	200	2.008664	2.02E-24	2.91E-22	up
ENSMUS(Ubn2	940	887	780	469	527	570	1.645903	2.6E-24	3.71E-22	up
ENSMUS(Atp11c	627	708	591	377	343	344	1.785627	4.54E-24	6.38E-22	up
ENSMUS(Atm	243	247	191	88	86	107	2.391882	4.97E-24	6.95E-22	up
ENSMUS(Spint2	643	649	573	353	353	393	1.677973	1.91E-23	2.6E-21	up
ENSMUS(Sgms2	170	187	186	71	59	70	2.692319	2.19E-23	2.97E-21	up
ENSMUS(Abca4	292	283	221	88	57	94	3.28441	7.55E-23	9.97E-21	up
ENSMUS(Paxbp1	786	698	651	427	411	396	1.706896	1.01E-22	1.3E-20	up
ENSMUS(Focad	644	613	482	295	312	331	1.826895	1.3E-22	1.63E-20	up
ENSMUS(Usp33	920	876	664	399	420	486	1.857968	1.93E-22	2.39E-20	up
ENSMUS(Trpm7	1308	1193	1133	789	802	795	1.504996	3.6E-22	4.38E-20	up
ENSMUS(Tmprss11a	185	172	162	37	29	53	4.333109	4.93E-22	5.9E-20	up
ENSMUS(Fam208b	435	414	361	205	213	239	1.820182	6.24E-22	7.43E-20	up
ENSMUS(Chuk	758	729	688	442	433	474	1.595308	1.31E-21	1.54E-19	up
ENSMUS(Nr2c2	466	408	316	179	180	200	2.095393	1.48E-21	1.73E-19	up
ENSMUS(Zfc3h1	1082	1186	1011	659	738	759	1.503968	1.89E-21	2.17E-19	up
ENSMUS(Sema3b	220	225	185	79	98	90	2.328527	2.24E-21	2.56E-19	up
ENSMUS(Alg10b	400	387	344	188	198	223	1.836936	3E-21	3.4E-19	up
ENSMUS(Kcnj13	202	152	171	56	57	64	2.940745	4.31E-21	4.87E-19	up
ENSMUS(Hectd2	414	406	383	199	143	167	2.333626	5.2E-21	5.83E-19	up
ENSMUS(Zfp932	747	790	652	452	434	485	1.576439	6.41E-21	7.15E-19	up
ENSMUS(Wdr75	847	871	800	519	526	566	1.546825	6.76E-21	7.51E-19	up
ENSMUS(Mga	1244	1182	1003	743	768	738	1.502916	1.39E-20	1.49E-18	up
ENSMUS(Eml6	263	270	209	96	123	122	2.147014	1.52E-20	1.62E-18	up
ENSMUS(Unc13b	780	754	597	382	438	429	1.6814	1.79E-20	1.87E-18	up
ENSMUS(Lnpep	194	207	153	69	83	74	2.412673	2.72E-20	2.77E-18	up
ENSMUS(Trpv4	167	148	143	54	52	62	2.698911	3.91E-20	3.89E-18	up
ENSMUS(Pcolce2	256	240	196	111	101	107	2.136034	7.06E-20	6.84E-18	up
ENSMUS(Zkscan3	815	724	683	424	474	431	1.651075	8.97E-20	8.52E-18	up
ENSMUS(Stx3	771	698	711	402	449	482	1.621669	1.11E-19	1.05E-17	up
ENSMUS(Zfp322a	833	816	749	480	527	541	1.532458	1.29E-19	1.21E-17	up
ENSMUS(Zkscan16	281	276	202	76	84	109	2.785101	1.5E-19	1.4E-17	up
ENSMUS(Calm14	371	439	383	222	190	212	1.890229	1.73E-19	1.61E-17	up
ENSMUS(Sfrp1	410	380	382	212	216	231	1.761837	2.09E-19	1.92E-17	up
ENSMUS(Oca2	144	130	117	46	42	46	2.879819	3.36E-19	3.03E-17	up
ENSMUS(Sh3d19	514	522	444	278	308	299	1.650981	4.02E-19	3.61E-17	up
ENSMUS(Klhl34	479	466	393	265	262	257	1.682176	5.66E-19	5.02E-17	up
ENSMUS(C2cd5	825	915	800	536	528	604	1.507171	7.03E-19	6.18E-17	up
ENSMUS(Atp7a	99	101	79	22	27	27	3.621879	9.97E-19	8.55E-17	up
ENSMUS(Brwd3	431	542	415	229	254	259	1.847223	1.39E-18	1.18E-16	up
ENSMUS(Guf1	727	792	689	445	493	490	1.528898	1.44E-18	1.22E-16	up
ENSMUS(Pnn	1806	1783	1538	1002	1184	1190	1.500836	1.54E-18	1.29E-16	up
ENSMUS(Ctnnal1	470	462	385	259	255	263	1.67136	2.39E-18	1.97E-16	up
ENSMUS(Bst2	202	221	239	92	80	102	2.404219	2.9E-18	2.35E-16	up
ENSMUS(Lepr	222	202	180	101	86	85	2.187039	4.02E-18	3.17E-16	up
ENSMUS(Car14	285	283	238	143	119	148	1.940425	7.26E-18	5.61E-16	up
ENSMUS(Wdr86	147	153	129	52	54	58	2.584281	7.31E-18	5.63E-16	up
ENSMUS(Fam178a	993	980	902	587	593	698	1.516093	8.07E-18	6.2E-16	up
ENSMUS(Dnmt3a	797	789	678	450	500	535	1.506925	8.79E-18	6.73E-16	up
ENSMUS(Ccdc39	509	468	482	280	270	247	1.810074	9.38E-18	7.15E-16	up
ENSMUS(Pqlc3	195	228	190	88	97	99	2.134191	1.18E-17	8.92E-16	up
ENSMUS(Zfp397	845	790	680	497	518	505	1.501903	1.52E-17	1.15E-15	up
ENSMUS(Flnb	579	587	481	340	351	343	1.570209	2.35E-17	1.73E-15	up
ENSMUS(Kcnh7	577	615	530	349	353	388	1.562025	2.51E-17	1.83E-15	up
ENSMUS(Ints13	645	639	587	393	385	424	1.539777	2.98E-17	2.17E-15	up
ENSMUS(Cspp1	517	509	449	316	302	293	1.597088	4.36E-17	3.06E-15	up
ENSMUS(Prkdc	531	609	530	325	350	358	1.599564	4.55E-17	3.19E-15	up
ENSMUS(Itga8	502	493	390	277	258	285	1.663978	6.16E-17	4.27E-15	up
ENSMUS(Wdr78	223	240	201	101	103	121	2.02074	6.48E-17	4.47E-15	up
ENSMUS(Dock7	727	726	620	450	434	477	1.503929	7.99E-17	5.45E-15	up
ENSMUS(Gm15446	511	547	516	339	321	330	1.57327	9.86E-17	6.7E-15	up
ENSMUS(Slc2a12	486	427	470	151	180	221	2.494041	9.98E-17	6.76E-15	up
ENSMUS(Zfp26	359	413	371	202	229	226	1.722795	1.08E-16	7.28E-15	up
ENSMUS(Xkr4	212	200	164	78	92	99	2.114335	1.99E-16	1.28E-14	up
ENSMUS(Npr3	638	581	609	374	379	375	1.605153	3.35E-16	2.09E-14	up
ENSMUS(Cul4b	1057	1052	914	681	582	663	1.549204	3.48E-16	2.16E-14	up
ENSMUS(Zmym6	542	495	475	316	303	338	1.563033	6.59E-16	3.93E-14	up
ENSMUS(Krt18	200	210	158	94	84	90	2.085362	6.83E-16	4.06E-14	up
ENSMUS(Tbc1d32	348	373	353	218	192	194	1.758107	8.44E-16	4.97E-14	up
ENSMUS(Mndal	138	112	117	48	38	53	2.61623	8.48E-16	4.98E-14	up
ENSMUS(Drc7	228	267	232	134	120	129	1.876288	1.83E-15	1.04E-13	up
ENSMUS(Rdh5	200	202	192	100	89	80	2.179306	1.84E-15	1.04E-13	up

ENSMUS(Gm853	17	11	17	4	1	3	5.593039	1.45E-05	0.000156	up
ENSMUS(Tat	8	10	8	1	0	0	24.96287	1.53E-05	0.000164	up
ENSMUS(Sfrp5	42	45	39	16	21	11	2.580657	1.57E-05	0.000167	up
ENSMUS(Msantd2	332	282	281	229	171	181	1.519271	1.56E-05	0.000167	up
ENSMUS(Zfp551	61	52	29	15	24	17	2.47523	1.65E-05	0.000176	up
ENSMUS(Nek4	236	205	159	122	144	126	1.504347	1.81E-05	0.00019	up
ENSMUS(Col6a5	21	27	26	6	6	11	3.217683	1.92E-05	0.000201	up
ENSMUS(Cfap44	133	143	106	78	80	84	1.554669	1.94E-05	0.000203	up
ENSMUS(BC067074	50	64	47	24	27	27	2.036378	1.95E-05	0.000204	up
ENSMUS(Fan1	89	90	54	32	44	42	1.937528	1.99E-05	0.000207	up
ENSMUS(Pcdh15	211	244	229	123	144	177	1.531984	2.01E-05	0.000209	up
ENSMUS(Gm38394	20	13	8	2	1	3	6.715596	2.03E-05	0.000211	up
ENSMUS(Gm3558	33	32	26	14	9	10	2.707895	2.15E-05	0.000223	up
ENSMUS(Nid2	113	144	99	49	76	61	1.885457	2.19E-05	0.000227	up
ENSMUS(Slc22a21	38	45	35	20	14	16	2.322707	2.31E-05	0.000238	up
ENSMUS(Pon1	37	32	30	10	11	17	2.588679	2.32E-05	0.00024	up
ENSMUS(Hfm1	50	53	54	26	19	31	2.054774	2.41E-05	0.000248	up
ENSMUS(Mki67	71	77	57	35	31	44	1.840077	2.65E-05	0.000271	up
ENSMUS(Tex9	50	47	47	23	27	18	2.089245	3.07E-05	0.00031	up
ENSMUS(Itga1	66	54	47	30	29	19	2.097984	3.14E-05	0.000316	up
ENSMUS(Pop1	118	105	95	54	69	72	1.613446	3.15E-05	0.000317	up
ENSMUS(Nek5	69	50	49	16	22	33	2.352226	3.19E-05	0.00032	up
ENSMUS(Slc16a8	68	83	51	6	29	31	3.036112	3.5E-05	0.000349	up
ENSMUS(Sntb1	70	59	46	27	28	35	1.916874	3.69E-05	0.000365	up
ENSMUS(Zfp994	294	325	230	204	159	184	1.525171	3.8E-05	0.000375	up
ENSMUS(Gm16485	186	191	177	116	84	142	1.607466	4.08E-05	0.000399	up
ENSMUS(Fap	81	76	68	30	15	49	2.383127	4.11E-05	0.000402	up
ENSMUS(Sned1	128	110	93	74	53	71	1.646681	4.18E-05	0.000408	up
ENSMUS(Large2	20	28	25	4	4	10	4.068801	4.55E-05	0.000442	up
ENSMUS(Syt10	51	52	60	18	32	25	2.165001	4.66E-05	0.000451	up
ENSMUS(Dgkq	149	168	133	80	109	104	1.517712	4.67E-05	0.000452	up
ENSMUS(Serpinb1b	99	99	67	56	53	44	1.695224	4.73E-05	0.000458	up
ENSMUS(Cdca7l	29	39	31	16	12	12	2.437965	5.08E-05	0.000488	up
ENSMUS(Zkscan7	95	82	93	45	57	59	1.667561	5.08E-05	0.000488	up
ENSMUS(mt-Nd4l	45	0	4	4	2	1	6.667471	5.33E-05	0.000509	up
ENSMUS(Adam32	28	13	15	6	3	4	4.222735	5.41E-05	0.000516	up
ENSMUS(Ccdc191	121	144	131	84	84	92	1.509452	5.55E-05	0.000529	up
ENSMUS(Cndp1	17	33	30	5	11	6	3.61413	5.68E-05	0.000541	up
ENSMUS(Rbm41	140	121	90	45	52	77	1.99357	5.86E-05	0.000556	up
ENSMUS(Alpk1	85	90	62	53	39	41	1.746181	5.89E-05	0.000558	up
ENSMUS(Ccdc187	82	80	58	24	47	31	2.120825	5.96E-05	0.000564	up
ENSMUS(Tubd1	165	146	151	86	98	121	1.50514	6.17E-05	0.00058	up
ENSMUS(Slc24a5	97	77	60	44	39	44	1.810058	6.63E-05	0.000617	up
ENSMUS(Zfp599	104	123	97	74	63	68	1.558043	7.77E-05	0.000712	up
ENSMUS(Iqub	130	114	111	72	75	83	1.527831	8.4E-05	0.000763	up
ENSMUS(Usp18	35	28	37	15	12	15	2.369815	8.48E-05	0.00077	up
ENSMUS(Eif2ak2	163	163	142	109	107	83	1.54017	8.6E-05	0.00078	up
ENSMUS(Itpripl2	117	121	104	56	82	70	1.625355	9.13E-05	0.000822	up
ENSMUS(Wdr72	25	37	21	9	14	8	2.619905	9.37E-05	0.000842	up
ENSMUS(Igfn1	18	37	37	9	11	12	2.87607	9.53E-05	0.000854	up
ENSMUS(Kcnk9	28	31	23	12	12	7	2.58862	9.55E-05	0.000855	up
ENSMUS(Col4a4	70	66	84	28	45	35	2.030893	9.61E-05	0.000861	up
ENSMUS(Fam46c	123	120	109	76	80	73	1.517406	0.000104	0.000919	up
ENSMUS(Catsperg2	11	9	8	1	1	1	9.196192	0.00011	0.000968	up
ENSMUS(Iigp1	108	153	104	75	74	57	1.739081	0.000126	0.001096	up
ENSMUS(Cldn3	14	24	23	9	5	4	3.343414	0.000145	0.001246	up
ENSMUS(Lmx1a	31	39	23	13	15	11	2.332783	0.000151	0.001285	up
ENSMUS(Malt1	146	105	110	77	52	71	1.782423	0.000159	0.001348	up
ENSMUS(Eps8l2	29	30	21	9	9	13	2.547291	0.000161	0.001362	up
ENSMUS(Olfr648	21	21	14	3	7	7	3.253452	0.000169	0.001418	up
ENSMUS(Parp14	60	79	68	40	38	42	1.708288	0.000178	0.00149	up
ENSMUS(Sfxn2	60	54	49	32	22	34	1.831147	0.000192	0.001595	up
ENSMUS(1700109H	32	24	20	4	8	12	3.146426	0.000192	0.001599	up
ENSMUS(Wars2	147	86	111	60	77	67	1.670011	0.000195	0.001619	up
ENSMUS(Gcfc2	86	67	72	41	45	48	1.663715	0.000195	0.00162	up
ENSMUS(Plcxd3	45	56	26	17	6	11	3.630812	0.000199	0.001646	up
ENSMUS(Tet1	217	244	167	85	133	147	1.699522	0.000205	0.001691	up
ENSMUS(Itpripl1	85	76	91	35	30	60	2.018538	0.000212	0.001737	up
ENSMUS(Il18bp	88	84	64	49	44	50	1.624	0.000221	0.001796	up
ENSMUS(Adamts3	111	75	64	43	47	48	1.781298	0.000225	0.001827	up
ENSMUS(Nek10	19	21	15	3	7	7	3.203268	0.000228	0.001844	up
ENSMUS(Palm2	24	41	37	13	18	12	2.351688	0.000231	0.001867	up
ENSMUS(9930111J2	19	13	21	4	8	4	3.298596	0.000237	0.001909	up
ENSMUS(Acad10	71	65	63	31	41	44	1.701773	0.000267	0.002125	up
ENSMUS(Flt3	125	124	81	59	64	82	1.584651	0.000274	0.002177	up
ENSMUS(Dnah7b	101	80	79	61	49	53	1.57307	0.00029	0.002284	up
ENSMUS(Slc26a10	109	107	86	58	69	69	1.520108	0.000293	0.002302	up
ENSMUS(Zfp960	62	71	71	45	29	40	1.774198	0.000294	0.002311	up
ENSMUS(Fam228a	26	29	34	7	5	15	3.320149	0.000297	0.002331	up
ENSMUS(Stard9	132	105	92	56	75	79	1.547671	0.000318	0.002469	up

ENSMUS(Gbp9	87	106	65	51	38	58	1.726087	0.000331	0.00256	up
ENSMUS(Plek2	24	31	35	15	14	10	2.289142	0.000341	0.00263	up
ENSMUS(Dnase1l2	40	32	28	16	16	14	2.137253	0.000343	0.002644	up
ENSMUS(Dnah6	169	164	128	120	92	87	1.512528	0.000348	0.002676	up
ENSMUS(Pcdhac2	192	158	132	69	105	110	1.677708	0.000348	0.002679	up
ENSMUS(Dpep1	16	22	19	4	9	6	2.97528	0.000355	0.002725	up
ENSMUS(Podn	101	86	79	54	59	56	1.553047	0.000363	0.002778	up
ENSMUS(Zfp458	76	70	72	48	40	44	1.634261	0.000368	0.002813	up
ENSMUS(Dclre1c	176	177	145	76	105	140	1.539238	0.000383	0.002917	up
ENSMUS(Traf3ip2	68	87	77	45	54	44	1.604907	0.000387	0.002938	up
ENSMUS(Tjp3	52	50	54	25	30	31	1.802974	0.000398	0.003017	up
ENSMUS(Csf2rb2	41	48	39	18	26	22	1.916581	0.000413	0.003121	up
ENSMUS(Soga1	98	104	60	45	60	48	1.675722	0.000414	0.003127	up
ENSMUS(Pyroxd1	86	78	64	53	32	40	1.791617	0.000431	0.003234	up
ENSMUS(Gm42878	23	20	20	11	6	6	2.691848	0.000445	0.00333	up
ENSMUS(Cntnap5c	60	56	42	28	26	34	1.769527	0.000453	0.00338	up
ENSMUS(Trmt13	74	102	72	43	53	55	1.621952	0.000459	0.003426	up
ENSMUS(Crb3	44	43	45	10	25	21	2.3483	0.000461	0.003436	up
ENSMUS(Tnfsf10	52	63	51	25	29	40	1.753071	0.000463	0.003447	up
ENSMUS(Fam46a	193	185	126	116	77	87	1.761373	0.000468	0.003478	up
ENSMUS(Ripk4	42	50	25	23	15	16	2.108947	0.000473	0.003513	up
ENSMUS(Gm2026	59	53	47	33	32	24	1.755744	0.00048	0.003554	up
ENSMUS(Zgrf1	104	113	66	53	64	53	1.629047	0.00049	0.003625	up
ENSMUS(Rtl1	55	58	65	23	38	37	1.812474	0.000517	0.003802	up
ENSMUS(Itk	34	21	21	8	8	15	2.43381	0.000554	0.004042	up
ENSMUS(Nynrin	33	19	14	6	10	6	2.928216	0.000558	0.004065	up
ENSMUS(Gm14137	21	14	12	6	6	2	3.263254	0.000566	0.00411	up
ENSMUS(Ngfr	33	45	27	19	16	16	2.017395	0.000567	0.004119	up
ENSMUS(Tmem27	59	53	29	5	20	15	3.46226	0.000573	0.004155	up
ENSMUS(Plekhh2	143	137	113	68	102	86	1.514883	0.00058	0.004199	up
ENSMUS(Marveld2	64	51	48	34	26	33	1.729232	0.000606	0.004364	up
ENSMUS(Steap4	36	27	16	2	9	3	5.500117	0.000611	0.004393	up
ENSMUS(Marveld3	9	21	11	2	3	5	4.068119	0.000655	0.004663	up
ENSMUS(Ccdc170	35	25	25	11	12	15	2.21443	0.000673	0.004767	up
ENSMUS(Cox8b	58	69	50	40	27	37	1.675509	0.000677	0.004792	up
ENSMUS(Gm3591	14	22	14	6	1	3	4.886047	0.000743	0.005197	up
ENSMUS(Nusap1	65	70	57	43	39	34	1.628258	0.000765	0.005335	up
ENSMUS(Mfsd7c	71	64	40	22	32	38	1.872062	0.000789	0.005477	up
ENSMUS(Mpp7	118	116	143	84	54	63	1.862501	0.000795	0.005507	up
ENSMUS(Olfr539	67	65	57	39	36	39	1.636508	0.000809	0.005596	up
ENSMUS(Tmem184c	15	21	13	5	7	4	2.998725	0.000813	0.005623	up
ENSMUS(Dok6	47	76	32	30	21	20	2.121122	0.000818	0.005648	up
ENSMUS(Aff2	49	44	41	27	22	24	1.810905	0.000821	0.005664	up
ENSMUS(Slco1a5	17	27	27	9	9	11	2.442712	0.000837	0.005754	up
ENSMUS(Chrm5	24	18	12	6	9	4	2.766337	0.000847	0.005809	up
ENSMUS(D930048N	50	39	37	27	19	16	1.993511	0.000867	0.00593	up
ENSMUS(Sytl3	17	16	14	7	4	4	3.073653	0.000874	0.00597	up
ENSMUS(Cdk1	18	27	25	12	9	8	2.386109	0.000879	0.005997	up
ENSMUS(Klhl31	13	7	12	2	3	2	4.546421	0.000895	0.006093	up
ENSMUS(Zfp619	93	97	75	61	50	63	1.501126	0.00091	0.006177	up
ENSMUS(Map3k19	126	105	76	65	62	67	1.553219	0.000935	0.006325	up
ENSMUS(Vgll3	69	79	59	42	42	45	1.581672	0.001001	0.006711	up
ENSMUS(4933428G	12	18	13	6	4	3	3.239818	0.001009	0.006759	up
ENSMUS(Prkg1	118	90	77	45	64	66	1.607557	0.001031	0.006876	up
ENSMUS(Masp2	53	47	57	27	29	35	1.719892	0.001032	0.006883	up
ENSMUS(Styk1	25	28	16	4	9	12	2.729165	0.001054	0.007002	up
ENSMUS(Arhgef5	81	67	57	34	50	44	1.579531	0.001104	0.007289	up
ENSMUS(Nkain3	73	65	54	32	42	44	1.607089	0.001115	0.007358	up
ENSMUS(Wisp1	25	24	20	13	9	7	2.330066	0.001128	0.007426	up
ENSMUS(Mtcp1	64	69	51	33	40	39	1.618964	0.001147	0.007528	up
ENSMUS(Iqcd	22	26	27	9	13	11	2.260106	0.001164	0.007627	up
ENSMUS(Lancl3	21	23	17	7	11	6	2.494311	0.001166	0.007632	up
ENSMUS(Zfp54	49	34	38	16	24	25	1.847884	0.001167	0.007637	up
ENSMUS(Tsnaxip1	26	25	27	11	15	9	2.203867	0.001171	0.007654	up
ENSMUS(Chmp4c	25	39	20	7	11	16	2.440419	0.00123	0.007981	up
ENSMUS(Gramd1c	93	87	75	57	63	47	1.501999	0.00124	0.00804	up
ENSMUS(Zcwpw1	82	84	79	41	62	49	1.595651	0.001255	0.008119	up
ENSMUS(Adamts5	48	45	58	25	33	27	1.769823	0.001258	0.008138	up
ENSMUS(Rab20	31	28	29	15	13	14	2.073493	0.00128	0.008257	up
ENSMUS(Klf12	35	19	17	6	9	2	4.054949	0.001284	0.008279	up
ENSMUS(Kif23	25	16	18	10	7	6	2.52046	0.001288	0.008299	up
ENSMUS(Zfp568	88	84	55	52	41	47	1.588381	0.0013	0.008362	up
ENSMUS(Prss41	49	61	51	27	24	40	1.758181	0.001394	0.008903	up
ENSMUS(Zfp382	52	45	54	26	28	34	1.709728	0.00142	0.009055	up
ENSMUS(Pigl	93	85	107	64	60	60	1.540561	0.001447	0.009213	up
ENSMUS(Krtcap3	21	15	26	9	9	6	2.572553	0.001454	0.009255	up
ENSMUS(Crip3	29	24	18	10	10	11	2.251046	0.001469	0.009334	up
ENSMUS(Mak	49	64	51	25	36	37	1.658629	0.001471	0.009343	up
ENSMUS(Ubap1l	16	22	14	8	7	4	2.670594	0.001472	0.009346	up
ENSMUS(Dgkh	46	61	49	27	36	21	1.828416	0.001483	0.009397	up

ENSMUS(Rttt	91	89	75	44	56	67	1.512341	0.001508	0.009525	up
ENSMUS(Slco5a1	61	58	43	38	24	30	1.727357	0.00151	0.00953	up
ENSMUS(Kif27	66	53	39	28	25	37	1.728939	0.001561	0.00981	up
ENSMUS(Cep152	83	76	85	50	50	61	1.507441	0.001609	0.010069	up
ENSMUS(Daw1	36	37	31	17	18	19	1.902074	0.001616	0.010111	up
ENSMUS(Egr2	77	43	50	36	30	24	1.855683	0.001666	0.010381	up
ENSMUS(Mcmdc2	6	12	6	1	1	2	5.935695	0.001718	0.01068	up
ENSMUS(Gm20939	39	39	35	16	21	24	1.837356	0.001831	0.011288	up
ENSMUS(Hist1h2bg	14	7	7	3	1	2	4.566722	0.001886	0.011568	up
ENSMUS(Gzmm	25	37	27	10	17	17	2.004699	0.00191	0.01171	up
ENSMUS(Prcd	59	44	46	31	30	27	1.670215	0.001947	0.011898	up
ENSMUS(Frem2	66	64	63	43	40	39	1.564072	0.001987	0.01211	up
ENSMUS(Gm21750	5	5	6	0	0	1	16.52317	0.001994	0.01215	up
ENSMUS(Pot1b	61	52	70	37	29	43	1.676679	0.001996	0.012157	up
ENSMUS(Cabp4	6	5	5	0	1	0	15.68519	0.002002	0.012193	up
ENSMUS(Kctd16	66	80	79	34	39	60	1.690061	0.002074	0.012586	up
ENSMUS(Ptchd1	29	30	24	16	12	7	2.317306	0.002106	0.012753	up
ENSMUS(Gbp8	21	18	24	8	10	9	2.325508	0.002273	0.01364	up
ENSMUS(Hs6st3	30	34	24	17	16	11	1.95759	0.002339	0.014006	up
ENSMUS(Htr2a	57	64	45	27	39	36	1.603901	0.002372	0.014188	up
ENSMUS(Helz2	50	44	31	22	25	24	1.728303	0.002429	0.014502	up
ENSMUS(Zfp977	23	18	17	9	5	10	2.390132	0.002503	0.014889	up
ENSMUS(Rad9b	51	74	60	28	29	47	1.770934	0.002602	0.015383	up
ENSMUS(Sass6	66	72	46	38	38	40	1.557001	0.002642	0.015584	up
ENSMUS(Aldob	48	36	51	25	26	25	1.768449	0.002648	0.015616	up
ENSMUS(Gm11639	15	5	5	1	1	2	6.160833	0.002659	0.015661	up
ENSMUS(Zfp979	73	77	71	41	47	58	1.502925	0.002691	0.015826	up
ENSMUS(Mycbpap	49	67	51	41	15	28	1.956008	0.002769	0.016226	up
ENSMUS(Spag17	17	11	10	3	3	6	3.141621	0.002795	0.016342	up
ENSMUS(Syne4	59	31	56	28	21	30	1.844948	0.002829	0.016526	up
ENSMUS(Ybx2	44	39	37	22	25	21	1.741523	0.002852	0.016641	up
ENSMUS(Glp2r	13	17	13	4	5	6	2.840628	0.002869	0.016732	up
ENSMUS(Hyal1	42	39	48	25	28	22	1.708064	0.003022	0.017501	up
ENSMUS(Abhd14b	103	90	88	53	47	79	1.560147	0.003075	0.017761	up
ENSMUS(Wdr63	62	69	39	27	21	40	1.901834	0.003091	0.017834	up
ENSMUS(Wfdc6a	5	3	7	0	1	0	14.96526	0.003163	0.018193	up
ENSMUS(Adamts6	32	52	36	18	27	16	1.935325	0.003184	0.018292	up
ENSMUS(Gm9772	6	4	5	0	0	1	15.42446	0.003212	0.018434	up
ENSMUS(Muc15	13	17	12	4	6	1	3.71762	0.003215	0.018446	up
ENSMUS(Dok3	65	81	56	46	41	45	1.50567	0.00322	0.018474	up
ENSMUS(Lif	16	25	19	10	8	8	2.275193	0.003255	0.018642	up
ENSMUS(Oprd1	46	31	40	24	21	21	1.755898	0.00328	0.018769	up
ENSMUS(Smyd1	33	41	26	23	14	17	1.813519	0.003423	0.019481	up
ENSMUS(Nlrp1a	15	8	13	1	5	2	4.47589	0.003424	0.019482	up
ENSMUS(Dnase1	54	60	30	17	31	21	2.038389	0.003528	0.019987	up
ENSMUS(Gen1	35	31	31	21	16	15	1.838581	0.003568	0.020177	up
ENSMUS(Gm45902	68	75	53	41	44	43	1.506169	0.003644	0.020565	up
ENSMUS(Gm4951	24	16	24	11	9	9	2.192645	0.003667	0.020663	up
ENSMUS(Mylk3	16	19	17	10	5	5	2.554642	0.003719	0.020915	up
ENSMUS(Sycp2	42	37	34	23	24	17	1.736379	0.003755	0.021086	up
ENSMUS(Itgb1bp2	6	10	12	1	4	2	4.009421	0.003773	0.021164	up
ENSMUS(Myh7	11	14	12	2	6	4	3.060159	0.003774	0.021167	up
ENSMUS(Pabpc5	21	27	4	5	7	5	2.937684	0.003856	0.021552	up
ENSMUS(Kif22	57	64	75	34	42	47	1.592131	0.003864	0.02159	up
ENSMUS(Aire	25	22	27	15	12	9	2.032413	0.003901	0.021746	up
ENSMUS(Pask	57	30	39	25	23	20	1.827049	0.004201	0.023128	up
ENSMUS(Gm43951	18	15	17	1	7	1	5.477879	0.004231	0.023255	up
ENSMUS(Col6a3	70	80	59	43	37	57	1.508113	0.004338	0.023762	up
ENSMUS(Cgn	32	45	54	21	22	29	1.824681	0.004358	0.023854	up
ENSMUS(Gm43517	41	32	27	16	18	21	1.793784	0.004391	0.024017	up
ENSMUS(Olfr1307	10	27	15	7	8	4	2.67743	0.004423	0.024163	up
ENSMUS(Mecom	57	52	51	33	33	35	1.567671	0.004636	0.025205	up
ENSMUS(Dnah3	30	20	36	14	13	15	2.050489	0.005021	0.026956	up
ENSMUS(Cyp27b1	6	11	12	3	1	4	3.64491	0.005087	0.02723	up
ENSMUS(Ccdc68	11	16	9	5	3	4	2.936947	0.005141	0.02746	up
ENSMUS(Cd300lg	5	7	7	1	2	0	6.203274	0.005173	0.027604	up
ENSMUS(Rab11fip1	44	57	62	37	29	34	1.621826	0.005595	0.029564	up
ENSMUS(Ankdd1a	13	11	10	4	2	5	3.062939	0.005621	0.029679	up
ENSMUS(Glb1l2	48	50	58	34	26	39	1.571297	0.00567	0.029913	up
ENSMUS(Olfr1507	15	5	5	1	1	3	4.955994	0.005829	0.030599	up
ENSMUS(Hist2h4	14	20	5	4	3	5	3.154249	0.005842	0.030649	up
ENSMUS(Snx29	35	32	42	16	24	23	1.729018	0.005877	0.030793	up
ENSMUS(Gm3002	21	28	23	9	12	15	1.987813	0.005967	0.0312	up
ENSMUS(Ranbp17	97	107	80	63	41	80	1.526192	0.005983	0.031276	up
ENSMUS(Dnah17	9	17	16	4	4	8	2.636241	0.005998	0.03133	up
ENSMUS(Vmn2r84	34	35	25	11	22	14	1.966497	0.006042	0.031541	up
ENSMUS(Ins15	11	23	18	2	7	0	5.655137	0.006071	0.031672	up
ENSMUS(Mthfs	45	43	47	29	31	23	1.609137	0.006073	0.031673	up
ENSMUS(Fancb	49	39	44	19	33	24	1.722165	0.006117	0.03184	up
ENSMUS(Clvs1	125	184	152	70	117	84	1.684209	0.006127	0.031885	up

ENSMUS(Col14a1	22	29	21	9	6	16	2.309556	0.006347	0.032855	up
ENSMUS(Clcn1	41	33	29	22	16	21	1.719689	0.006597	0.034007	up
ENSMUS(Atrip	10	14	6	4	2	3	3.242875	0.00671	0.03448	up
ENSMUS(Uba7	40	44	41	22	22	32	1.635656	0.006997	0.035659	up
ENSMUS(Gm9821	15	7	9	2	1	5	3.87			

ENSMUS(Fam180a	38	43	31	91	78	64	0.471188	9.26E-07	1.26E-05	down
ENSMUS(Itih2	107	96	101	144	166	164	0.635935	9.44E-07	1.28E-05	down
ENSMUS(Prr5	109	97	81	155	141	156	0.625525	1.06E-06	1.42E-05	down
ENSMUS(Medag	17	24	22	48	57	42	0.42423	1.45E-06	1.91E-05	down
ENSMUS(Fam83d	31	29	23	58	58	60	0.464327	1.87E-06	2.41E-05	down
ENSMUS(Omd	50	33	29	92	77	77	0.446575	2.32E-06	2.95E-05	down
ENSMUS(Tgfb1	89	73	73	112	120	151	0.608422	2.54E-06	3.19E-05	down
ENSMUS(Dnajc30	158	154	175	241	231	260	0.661577	2.83E-06	3.53E-05	down
ENSMUS(Acta1	84	84	73	116	133	137	0.61724	3.13E-06	3.88E-05	down
ENSMUS(Tpm2	93	90	75	116	166	147	0.593784	3.44E-06	4.23E-05	down
ENSMUS(Fam181b	83	89	92	138	123	153	0.633626	3.51E-06	4.3E-05	down
ENSMUS(Fgfbp3	89	94	85	129	144	145	0.634501	4.03E-06	4.89E-05	down
ENSMUS(Cpne9	144	143	137	194	244	197	0.660247	5.2E-06	6.19E-05	down
ENSMUS(H2-Q4	58	52	64	96	99	106	0.575478	6.78E-06	7.85E-05	down
ENSMUS(Clec3b	57	56	65	100	96	103	0.592025	7.34E-06	8.42E	

ENSMUS(Klf4	35	36	28	53	45	63	0.60713	0.001635	0.010216	down
ENSMUS(Ramp3	40	40	32	61	64	52	0.622088	0.001754	0.010886	down
ENSMUS(Btnl2	2	0	1	6	7	8	0.142231	0.001848	0.011384	down
ENSMUS(Heyl	47	41	50	58	75	76	0.657823	0.001872	0.011501	down
ENSMUS(Ret	31	41	28	50	57	5				

ENSMUS(Fancc	57	61	32	75	78	69	0.659334	0.014739	0.066301	down
ENSMUS(Tspan8	9	7	5	15	12	18	0.458717	0.015452	0.068888	down
ENSMUS(Slc22a2	15	17	14	20	29	30	0.57685	0.015584	0.069368	down
ENSMUS(Ip6k3	4	3	6	8	12	13	0.397722	0.015814	0.070223	down
ENSMUS(Styxl1	12	9	3	24	14	18	0.413616	0.016176	0.07158	down
ENSMUS(Prph	45	51	25	64	59	62	0.638281	0.016287	0.071967	down
ENSMUS(Prrx2	14	9	16	23	24	23	0.556768	0.017227	0.07545	down
ENSMUS(Ddt	11	19	15	31	20	26	0.577782	0.017557	0.076502	down
ENSMUS(Wnt1	0	1	0	3	5	3	0.086223	0.017859	0.077688	down
ENSMUS(Cebpb	23	30	26	48	38	34	0.649203	0.018279	0.079182	down
ENSMUS(Tpsb2	9	6	8	20	14	13	0.483547	0.018708	0.080668	down
ENSMUS(Gipc3	29	38	18	54	39	43	0.609033	0.019148	0.082251	down
ENSMUS(Cox4i2	7	9	5	6	24	18	0.431118	0.019521	0.083583	down
ENSMUS(Enpp3	10	7	14	14	21	26	0.513418	0.019596	0.083853	down
ENSMUS(Asgr1	36	45	23	55	43	60	0.644601	0.019951	0.085203	down
ENSMUS(Adamts13	16	15	17	22	25	33	0.598504	0.020564	0.087358	down
ENSMUS(Birc7	5	6	6	15	13	10	0.442048	0.020569	0.087367	down
ENSMUS(Gm765	1	0	1	4	7	2	0.154337	0.021131	0.089336	down
ENSMUS(Acr	17	13	9	19	29	20	0.56126	0.021782	0.091606	down
ENSMUS(Chat	2	0	1	4	4	7	0.199967	0.022394	0.093869	down
ENSMUS(Chrb4	12	15	15	34	32	11	0.535838	0.022588	0.094557	down
ENSMUS(Cartpt	23	20	27	53	31	29	0.613474	0.023072	0.096183	down
ENSMUS(Chst5	20	13	18	25	31	27	0.610365	0.023593	0.098004	down
ENSMUS(Cma1	5	4	7	13	8	15	0.446868	0.023657	0.098167	down
ENSMUS(Nhlh2	40	24	30	47	44	50	0.660205	0.023826	0.098681	down
ENSMUS(Nthl1	42	37	19	49	59	45	0.623554	0.023919	0.099008	down
ENSMUS(Unc5cl	4	5	5	10	10	13	0.422609	0.024048	0.099463	down
ENSMUS(Cited1	7	8	11	16	18	16	0.52001	0.0243	0.100304	down
ENSMUS(H2-Q2	3	1	3	8	4	10	0.320352	0.024372	0.100542	down
ENSMUS(Dmrta1	0	3	2	6	9	5	0.248235	0.024441	0.100722	down
ENSMUS(Wnt8b	4	3	7	11	7	15	0.430519	0.024449	0.100742	down
ENSMUS(Cited4	13	16	5	20	19	28	0.494071	0.025232	0.103499	down
ENSMUS(Zfp580	141	200	191	346	235	217	0.658821	0.026215	0.106688	down
ENSMUS(Adm	20	16	10	22	36	21	0.568215	0.026344	0.107058	down

Dataset S2. List of DE genes between SI and control (SI/C) female offspring

Gene	GeneName	SI-1_count	SI-2_count	SI-3_count	C-1_count	C-2_count	C-3_count	FoldChange	p	q	Up/Down
ENSMUSC	F5	1239	1258	1116	109	124	119	9.696382	0	0	up
ENSMUSC	Enpp2	44784	43071	38222	11044	10994	11708	3.525476	0	0	up
ENSMUSC	Lcn2	1047	916	826	95	82	97	9.589203	1.13E-278	7.94E-275	up

ENSMUS(Ankrd12	1292	1229	1194	745	746	825	1.517981	5.40E-25	2.86E-23	up
ENSMUS(Tmprss11a	177	206	176	37	29	53	4.465363	5.54E-25	2.93E-23	up
ENSMUS(Golgb1	1511	1390	1357	788	858	953	1.550887	6.16E-25	3.25E-23	up
ENSMUS(Sh3d19	565	543	502	278	308	299	1.718452	6.82E-25	3.58E-23	up
ENSMUS(Faxc	350									

ENSMUS(Mfsd4a	587	609	520	344	333	367	1.551972	1.83E-18	5.90E-17	up
ENSMUS(St6galnac2	127	134	106	18	29	36	4.193247	1.85E-18	5.95E-17	up
ENSMUS(Als2	659	679	623	395	410	419	1.515208	2.69E-18	8.52E-17	up
ENSMUS(Kmt2e	1308	1475	1330	806	843	865	1.549469	2.74E-18	8.65E-17	up
ENSMUS(Rev1</										

ENSMUS(Intu	312	315	281	179	187	197	1.524125	1.74E-10	2.59E-09	up
ENSMUS(Cfap44	154	158	159	78	80	84	1.845833	1.79E-10	2.67E-09	up
ENSMUS(Ocln	371	359	291	172	225	210	1.585011	1.80E-10	2.68E-09	up
ENSMUS(Slc16a6	149	146	147	82	65	75	1.883724	1.84E-10	2.74E-09	up
ENSMUS(Ddr2	269	266								

ENSMUS(Ehf	21	24	16	1	5	2	7.167545	1.16E-05	8.65E-05	up
ENSMUS(Fyb	66	60	60	34	27	29	1.950187	1.16E-05	8.68E-05	up
ENSMUS(Gm1110	27	20	21	5	6	7	3.57223	1.16E-05	8.69E-05	up
ENSMUS(Col27a1	93	96	89	54	51	49	1.704974	1.17E-05	8.74E-05	up
ENSMUS(Mx1	17	20	12	1	4	4	5.152062	1.20E-05	8.94E-05	up
ENSMUS(Zgrf1	99	110	91	53	64	53	1.664839	1.20E-05	8.94E-05	up
ENSMUS(Nt5c1a	43	33	28	11	12	15	2.574743	1.22E-05	9.11E-05	up
ENSMUS(Gm3373	26	28	16	8	7	3	3.598962	1.25E-05	9.30E-05	up
ENSMUS(Farp2	107	79	77	37	46	57	1.774444	1.33E-05	9.80E-05	up
ENSMUS(L3mbtl1	54	50	37	16	18	27	2.181149	1.33E-05	9.81E-05	up
ENSMUS(Nhlrc2	118	130	120	79	63	79	1.576979	1.38E-05	0.000101	up
ENSMUS(Prg4	198	159	137	97	103	103	1.53122	1.47E-05	0.000108	up
ENSMUS(9930111J2	24	24	15	4	8	4	3.675758	1.62E-05	0.000118	up
ENSMUS(St8sia6	142	156	136	91	91	64	1.660568	1.68E-05	0.000122	up
ENSMUS(Robo3	143	164	119	86	87	86	1.547817	1.69E-05	0.000123	up
ENSMUS(Apol11b	7	7	13	0	1	0	25.88534	1.76E-05	0.000127	up
ENSMUS(Gimap4	52	38	37	17	19	17	2.251502	1.79E-05	0.00013	up
ENSMUS(Tstd2	134	140	134	77	79	97	1.530782	1.81E-05	0.000131	up
ENSMUS(Atp10a	125	147	123	75	86	53	1.737454	1.84E-05	0.000133	up
ENSMUS(Tat	5	23	4	1	0	0	28.92892	1.85E-05	0.000133	up
ENSMUS(Ifi211	17	17	16	3	5	2	4.702838	1.87E-05	0.000134	up
ENSMUS(Coro6	140	148	130	83	84	94	1.514891	1.90E-05	0.000136	up
ENSMUS(Hyal1	68	51	43	25	28	22	2.019844	1.94E-05	0.000139	up
ENSMUS(Pm20d2	50	35	32	14	12	21	2.346727	1.98E-05	0.000141	up
ENSMUS(Onecut2	124	130	103	80	62	62	1.64362	2.00E-05	0.000143	up
ENSMUS(Chrm5	34	37	10	6	9	4	3.909551	2.00E-05	0.000143	up
ENSMUS(Gm14412	35	22	26	10	11	5	2.984808	2.03E-05	0.000144	up
ENSMUS(Brca2	145	153	129	83	102	83	1.502327	2.08E-05	0.000148	up
ENSMUS(Large2	25	32	20	4	4	10	4.067533	2.14E-05	0.000151	up
ENSMUS(Slfn2	98	91	61	41	45	29	2.025277	2.26E-05	0.00016	up
ENSMUS(Cd14	140	137	129	72	90	91	1.519664	2.32E-05	0.000163	up
ENSMUS(Polq	87	83	67	47	42	39	1.737659	2.34E-05	0.000165	up
ENSMUS(Parp9	131	135	152	78	77	87	1.64462	2.37E-05	0.000167	up
ENSMUS(Phyhd1	24	31	29	11	10	7	2.835418	2.47E-05	0.000173	up
ENSMUS(Cgn	49	62	44	21	22	29	2.036403	2.50E-05	0.000175	up
ENSMUS(Vgll3	80	85	73	42	42	45	1.743078	2.52E-05	0.000176	up
ENSMUS(Zfp458	82	87	73	48	40	44	1.728283	2.61E-05	0.000183	up
ENSMUS(Wdr72	37	25	27	9	14	8	2.695219	2.66E-05	0.000186	up
ENSMUS(Gm14403	115	112	112	62	71	70	1.582232	2.70E-05	0.000189	up
ENSMUS(Socs3	57	55	56	24	25	32	1.970461	2.79E-05	0.000194	up
ENSMUS(Zfp276	131	153	140	93	74	95	1.534401	2.88E-05	0.0002	up
ENSMUS(Zfp526	96	84	85	43	52	54	1.683797	2.93E-05	0.000203	up
ENSMUS(Ddb2	136	126	117	86	59	69	1.667456	2.98E-05	0.000206	up
ENSMUS(4933428G	21	18	16	6	4	3	3.951105	3.04E-05	0.00021	up
ENSMUS(Olfr1507	16	10	11	1	1	3	7.056252	3.10E-05	0.000214	up
ENSMUS(Cxcl9	33	27	30	12	10	10	2.655139	3.23E-05	0.000222	up
ENSMUS(Erg	64	53	56	33	20	24	2.115854	3.39E-05	0.000232	up
ENSMUS(Ifi209	16	30	22	4	6	8	3.612264	3.39E-05	0.000232	up
ENSMUS(Mmrn2	74	83	91	38	44	46	1.847515	3.39E-05	0.000232	up
ENSMUS(Zfp382	70	91	42	26	28	34	2.159081	3.45E-05	0.000236	up
ENSMUS(Uba7	53	59	47	22	22	32	1.982083	3.74E-05	0.000254	up
ENSMUS(Zfp366	18	17	13	3	3	4	4.522771	3.88E-05	0.000263	up
ENSMUS(Wdr78	165	205	152	101	103	121	1.51793	3.92E-05	0.000266	up
ENSMUS(Cxcl1	38	33	23	3	2	12	5.273657	3.93E-05	0.000266	up
ENSMUS(Prkg1	102	101	102	45	64	66	1.656471	3.98E-05	0.00027	up
ENSMUS(Cfp	150	130	111	70	83	92	1.504403	4.00E-05	0.00027	up
ENSMUS(Gm16432	158	160	170	75	88	115	1.673816	4.05E-05	0.000274	up
ENSMUS(Fzd3	132	110	128	44	63	81	1.876818	4.07E-05	0.000275	up
ENSMUS(Plek2	40	39	23	15	14	10	2.4303	4.12E-05	0.000278	up
ENSMUS(Slfn1	18	18	16	4	3	5	4.104309	4.18E-05	0.000282	up
ENSMUS(Schip1	103	95	92	58	59	52	1.618516	4.23E-05	0.000285	up
ENSMUS(Cntnap3	115	129	110	66	81	70	1.541576	4.30E-05	0.000289	up
ENSMUS(Tcaf2	39	39	34	13	17	16	2.300646	4.38E-05	0.000294	up
ENSMUS(Pcdhga5	82	65	72	36	38	44	1.758046	4.44E-05	0.000298	up
ENSMUS(Kcna3	18	19	27	0	4	3	8.863515	4.63E-05	0.000309	up
ENSMUS(Nostrin	75	60	58	39	30	31	1.813014	4.68E-05	0.000312	up
ENSMUS(D16Ertd47	101	93	80	48	48	62	1.637649	4.79E-05	0.00032	up
ENSMUS(Naaladl2	85	76	67	40	44	41	1.717163	5.07E-05	0.000337	up
ENSMUS(Gm4951	34	26	23	11	9	9	2.680086	5.26E-05	0.000348	up
ENSMUS(Ak9	62	40	46	24	23	20	2.075679	5.29E-05	0.00035	up
ENSMUS(Cd274	78	77	71	45	42	37	1.717633	5.63E-05	0.000371	up
ENSMUS(Ms4a4a	21	14	27	5	2	7	4.269449	5.75E-05	0.000379	up
ENSMUS(Best3	19	17	23	8	4	4	3.48975	5.77E-05	0.00038	up
ENSMUS(Sytl3	29	25	10	7	4	4	3.918974	5.81E-05	0.000382	up
ENSMUS(Pcdhgc4	86	111	80	29	54	45	2.047128	5.85E-05	0.000384	up
ENSMUS(Cd4	17	18	16	6	3	3	3.986142	5.86E-05	0.000385	up
ENSMUS(Gm3558	28	41	24	14	9	10	2.640123	5.98E-05	0.000392	up
ENSMUS(Igfn1	40	18	42	9	11	12	2.989899	6.14E-05	0.000402	up
ENSMUS(Styx	32	41	39	19	13	15	2.259127	6.36E-05	0.000414	up
ENSMUS(Cep152	104	88	84	50	50	61	1.619465	6.51E-05	0.000423	up

ENSMUS(Mpg	123	121	85	78	60	64	1.52406	0.00039	0.002171	up
ENSMUS(Madcam1	24	14	10	4	3	5	3.724981	0.000411	0.002274	up
ENSMUS(Cklf	87	85	93	58	54	51	1.540666	0.000434	0.002388	up
ENSMUS(Nbeal2	112	116	95	71	49	75	1.563159	0.000436	0.002397	up
ENSMUS(Loxl4	15	14	8	3	1	4	4.337376	0.000441	0.002424	up
ENSMUS(Acap1	18	11	14	2	5	4	3.704578	0.000444	0.002436	up
ENSMUS(Gm4070	14	12	10	2	3	0	6.655737	0.000447	0.002452	up
ENSMUS(Gbp5	135	113	66	53	55	36	2.020105	0.00046	0.002514	up
ENSMUS(Caps2	45	56	53	30	26	26	1.780598	0.000476	0.002589	up
ENSMUS(Trmt13	96	83	69	43	53	55	1.546293	0.000485	0.002638	up
ENSMUS(Gdpd3	67	51	54	28	27	40	1.715205	0.00049	0.002659	up
ENSMUS(Lilr4b	16	17	19	3	8	5	3.098894	0.000501	0.002711	up
ENSMUS(Pyroxd1	80	116	76	53	32	40	2.04548	0.000542	0.002909	up
ENSMUS(Tyms	101	103	111	65	72	62	1.501616	0.000549	0.00294	up
ENSMUS(Ngfr	40	36	32	19	16	16	1.990744	0.000572	0.003053	up
ENSMUS(Map3k14	76	72	60	44	26	42	1.748424	0.000584	0.003108	up
ENSMUS(Mak	67	60	48	25	36	37	1.682842	0.000587	0.003122	up
ENSMUS(Mecom	66	53	60	33	33	35	1.677634	0.000608	0.00322	up
ENSMUS(Pnp2	8	7	4	0	0	1	18.3516	0.000613	0.003239	up
ENSMUS(Oas1g	10	22	5	2	1	3	5.763325	0.000613	0.003241	up
ENSMUS(Usp18	55	27	25	15	12	15	2.370768	0.000622	0.003285	up
ENSMUS(Adamts14	36	37	24	14	18	12	2.059773	0.000623	0.00329	up
ENSMUS(C1rl	16	10	12	2	2	5	4.026328	0.000632	0.003335	up
ENSMUS(Adamtsl1	141	95	142	66	81	81	1.57822	0.000637	0.003357	up
ENSMUS(Tert	19	18	16	7	3	7	2.943754	0.000637	0.003357	up
ENSMUS(Ubap1l	18	32	13	8	7	4	3.077726	0.000645	0.003392	up
ENSMUS(Dnah11	54	59	46	30	34	23	1.716035	0.000666	0.003491	up
ENSMUS(Ripk4	31	41	47	23	15	16	2.098948	0.000693	0.00362	up
ENSMUS(Nlrp1a	19	14	10	1	5	2	5.017592	0.000697	0.003639	up
ENSMUS(Frrs1	79	90	71	50	41	56	1.542609	0.000703	0.003664	up
ENSMUS(Pcdhb16	123	147	115	57	91	90	1.532771	0.000714	0.003716	up
ENSMUS(D930048N	51	43	36	27	19	16	1.957753	0.000733	0.003808	up
ENSMUS(Cntnap5c	62	44	66	28	26	34	1.864429	0.000749	0.003882	up
ENSMUS(Ceacam1	120	83	58	45	47	31	1.966659	0.000753	0.003897	up
ENSMUS(Nek5	74	44	50	16	22	33	2.24114	0.000753	0.003897	up
ENSMUS(Milr1	22	11	19	5	4	7	3.094082	0.000772	0.003986	up
ENSMUS(Gm14137	11	18	19	6	6	2	3.247932	0.000774	0.003994	up
ENSMUS(Hist2h4	14	13	16	4	3	5	3.421218	0.000823	0.004231	up
ENSMUS(Wdhd1	93	76	83	48	56	53	1.518496	0.000827	0.004247	up
ENSMUS(Armc3	91	70	75	54	45	34	1.66583	0.000843	0.004324	up
ENSMUS(Oas1a	30	27	26	12	8	16	2.186506	0.000899	0.004594	up
ENSMUS(Ghsr	45	51	47	24	21	32	1.765946	0.000929	0.004736	up
ENSMUS(Dnah6	181	145	167	120	92	87	1.555135	0.000953	0.004845	up
ENSMUS(Nkain3	78	69	52	32	42	44	1.585516	0.000956	0.004855	up
ENSMUS(Gimap3	26	22	17	2	9	1	5.039964	0.000957	0.004863	up
ENSMUS(Myo5c	76	77	35	21	21	36	2.254334	0.000991	0.00502	up
ENSMUS(Il1r2	16	20	10	3	6	5	3.080427	0.001031	0.005195	up
ENSMUS(Kif27	44	63	67	28	25	37	1.853836	0.001054	0.005297	up
ENSMUS(Spag16	115	105	91	70	42	74	1.576796	0.001114	0.005565	up
ENSMUS(Dysf	41	52	39	27	24	19	1.772606	0.001127	0.005624	up
ENSMUS(Ifi27l2a	69	71	48	33	25	45	1.719232	0.001138	0.005671	up
ENSMUS(Cabp4	6	3	9	0	1	0	17.24732	0.001145	0.005701	up
ENSMUS(Ppl	54	43	46	21	24	33	1.740239	0.001174	0.005834	up
ENSMUS(Marveld3	9	26	9	2	3	5	4.167648	0.001174	0.005834	up
ENSMUS(Thbs1	84	82	80	60	40	39	1.666318	0.001177	0.005845	up
ENSMUS(Gzmm	31	30	33	10	17	17	2.036818	0.001177	0.005845	up
ENSMUS(Dnase1	51	46	43	17	31	21	1.914846	0.001197	0.005939	up
ENSMUS(Fgd5	89	104	79	67	45	51	1.56869	0.001258	0.006206	up
ENSMUS(Pask	44	48	36	25	23	20	1.76693	0.00138	0.006751	up
ENSMUS(Pcdhga11	25	32	24	14	10	12	2.120882	0.001409	0.006878	up
ENSMUS(Gnmt	23	33	25	8	15	13	2.136334	0.001409	0.006878	up
ENSMUS(Pcdha9	22	34	16	10	8	9	2.493871	0.00142	0.00693	up
ENSMUS(D130040H	70	55	44	22	39	29	1.760996	0.001451	0.007072	up
ENSMUS(Pcdhgb4	44	50	42	28	14	24	1.945058	0.001468	0.007142	up
ENSMUS(Ccr1	78	79	73	31	40	59	1.684327	0.001543	0.00747	up
ENSMUS(Arhgap4	79	85	62	43	42	56	1.511899	0.00155	0.0075	up
ENSMUS(Birc3	71	62	44	21	27	43	1.834988	0.001552	0.007506	up
ENSMUS(Gm28729	24	29	38	10	13	16	2.247377	0.001555	0.007516	up
ENSMUS(Setdb2	113	113	123	87	59	60	1.602123	0.001558	0.007531	up
ENSMUS(Syne3	25	33	24	14	13	10	2.0833	0.001584	0.007643	up
ENSMUS(Gm17655	37	38	35	22	16	18	1.85319	0.001615	0.007779	up
ENSMUS(Ltf	33	30	13	10	8	11	2.431332	0.001723	0.008252	up
ENSMUS(Tead4	10	10	15	3	3	3	3.728347	0.001729	0.008276	up
ENSMUS(Ciita	13	9	7	3	2	1	4.461504	0.001746	0.008347	up
ENSMUS(Vwa5b1	74	73	78	50	50	41	1.510059	0.00181	0.008623	up
ENSMUS(Fbxo48	5	16	8	3	1	1	5.424274	0.001841	0.008762	up
ENSMUS(Ccdc187	59	81	65	24	47	31	1.904545	0.001859	0.008838	up
ENSMUS(Plbd1	38	35	29	20	14	17	1.878196	0.001881	0.008934	up
ENSMUS(Gm3526	6	7	9	2	0	1	6.966029	0.001889	0.008963	up
ENSMUS(Fpr2	15	11	9	1	3	5	3.69217	0.001937	0.009167	up

ENSMUS(Itrp3	71	60	57	40	42	29	1.58987	0.001977	0.009337	up
ENSMUS(Chaf1a	41	38	37	16	18	27	1.807909	0.001993	0.00941	up
ENSMUS(Efhc1	68	79	67	46	48	32	1.59886	0.001995	0.009416	up
ENSMUS(Cxcl13	24	20	16	9	2	7	3.12081	0.002038	0.009603	up
ENSMUS(H2-DMb2	28	39	38	18	17	17	1.921699	0.002071	0.009744	up
ENSMUS(Cldn9	29	35	33	10	20	9	2.353572	0.002086	0.009806	up
ENSMUS(C5ar1	18	24	20	6	11	8	2.352747	0.002125	0.009971	up
ENSMUS(Gbp6	44	37	36	21	25	16	1.773046	0.002153	0.010089	up
ENSMUS(Krt9	46	35	34	13	21	25	1.84534	0.00216	0.010119	up
ENSMUS(Ifitm6	30	15	23	8	11	8	2.375127	0.002197	0.010279	up
ENSMUS(Crhr2	90	62	69	35	53	40	1.627428	0.002199	0.010285	up
ENSMUS(Ifnlr1	4	8	7	0	1	1	9.206608	0.002291	0.010659	up
ENSMUS(Upb1	17	12	7	5	3	2	3.306992	0.002363	0.010972	up
ENSMUS(Trim12a	10	5	11	1	3	1	4.951271	0.002379	0.011039	up
ENSMUS(Oprd1	47	37	38	24	21	21	1.740458	0.002404	0.011142	up
ENSMUS(Ammecr1	76	70	82	39	53	51	1.517867	0.002445	0.011298	up
ENSMUS(Pabpc5	15	13	23	5	7	5	2.880167	0.002532	0.011659	up
ENSMUS(Col20a1	48	62	46	31	27	33	1.619514	0.002556	0.011753	up
ENSMUS(Psmb9	75	68	61	43	27	48	1.632717	0.002642	0.012112	up
ENSMUS(Pcdhga9	70	72	53	38	30	49	1.571884	0.002667	0.012212	up
ENSMUS(Npffr1	73	68	52	44	35	40	1.521139	0.002668	0.012213	up
ENSMUS(Itk	29	27	15	8	8	15	2.150652	0.002682	0.012274	up
ENSMUS(Abhd14b	100	95	94	53	47	79	1.535183	0.002685	0.012281	up
ENSMUS(Angptl4	99	109	72	69	47	39	1.684411	0.002699	0.012339	up
ENSMUS(Neb	48	59	50	34	23	35	1.616787	0.002703	0.012356	up
ENSMUS(Rgag1	31	33	25	18	15	10	1.935104	0.002707	0.012368	up
ENSMUS(Scgb3a1	15	25	15	9	7	5	2.453087	0.002717	0.012406	up
ENSMUS(Dhx58	37	30	28	6	9	21	2.519569	0.002742	0.012506	up
ENSMUS(Gm21897	30	28	40	17	10	6	2.808655	0.002776	0.012636	up
ENSMUS(Ugt1a7c	5	2	10	1	0	0	16.10892	0.002786	0.012683	up
ENSMUS(Nepro	111	82	93	60	68	43	1.572988	0.0028	0.012739	up
ENSMUS(Map3k8	51	39	29	19	23	21	1.765686	0.002834	0.012862	up
ENSMUS(Gm3591	12	18	14	6	1	3	4.137466	0.002834	0.012862	up
ENSMUS(Gm3739	116	105	81	53	48	86	1.525272	0.002863	0.012978	up
ENSMUS(Slamf7	10	6	5	1	2	0	6.430745	0.002906	0.013145	up
ENSMUS(Ddx60	51	41	38	11	26	26	1.954489	0.002935	0.013265	up
ENSMUS(Exph5	27	43	29	12	15	21	1.960866	0.002939	0.013279	up
ENSMUS(Bspsy	41	47	28	21	15	26	1.758298	0.002941	0.013287	up
ENSMUS(Pot1b	67	57	55	37	29	43	1.552052	0.002983	0.013458	up
ENSMUS(Crb3	35	58	44	10	25	21	2.332216	0.003067	0.013792	up
ENSMUS(Pcdhgb2	59	53	48	30	27	38	1.591995	0.00313	0.014057	up
ENSMUS(Traf3ip3	26	14	20	4	4	11	3.019936	0.003141	0.014098	up
ENSMUS(Efcc1	42	65	66	30	34	31	1.739532	0.003206	0.014372	up
ENSMUS(Magix	16	12	7	3	5	2	3.233458	0.003252	0.014557	up
ENSMUS(Mylk4	7	9	7	2	1	1	5.392912	0.003263	0.0146	up
ENSMUS(Vmn1r58	5	9	2	0	0	1	15.36338	0.0033	0.01475	up
ENSMUS(Gm853	9	14	8	4	1	3	3.636619	0.003508	0.015574	up
ENSMUS(Clec4a3	54	51	42	29	24	33	1.611258	0.003573	0.015842	up
ENSMUS(Hist1h2bg	12	6	9	3	1	2	4.228218	0.00358	0.01587	up
ENSMUS(C3ar1	63	48	49	29	32	35	1.573188	0.003803	0.016736	up
ENSMUS(Dennd2c	20	17	21	6	11	7	2.295072	0.003818	0.016798	up
ENSMUS(Acvr2b	20	32	17	10	7	12	2.241609	0.003847	0.016908	up
ENSMUS(Cage1	61	62	44	30	23	42	1.657988	0.003872	0.016999	up
ENSMUS(Trim12c	37	30	34	14	18	21	1.810791	0.003895	0.017083	up
ENSMUS(Ptar1	33	25	24	13	14	13	1.927137	0.004068	0.017762	up
ENSMUS(Slfn3	10	2	4	0	1	0	14.74886	0.004103	0.017881	up
ENSMUS(Slc16a14	66	79	48	44	29	39	1.614513	0.004166	0.018117	up
ENSMUS(Slfn4	11	17	8	4	5	2	3.041262	0.004172	0.018136	up
ENSMUS(Lax1	5	22	8	1	3	4	4.171732	0.004182	0.018161	up
ENSMUS(Cd300lg	6	5	9	1	2	0	6.312718	0.004278	0.018537	up
ENSMUS(Lmntd2	5	7	8	2	1	0	6.242343	0.004285	0.018565	up
ENSMUS(Jaml	25	16	8	5	4	7	2.839971	0.004316	0.018665	up
ENSMUS(Pim1	29	38	29	17	17	16	1.812394	0.004455	0.019226	up
ENSMUS(Asb4	25	22	15	8	8	11	2.155215	0.004507	0.019423	up
ENSMUS(Myo1f	52	66	59	34	34	42	1.52988	0.004728	0.02027	up
ENSMUS(Zfp54	48	45	27	16	24	25	1.729839	0.004732	0.020275	up
ENSMUS(Akr1c14	36	38	37	18	20	23	1.728395	0.004797	0.02052	up
ENSMUS(Tns4	11	14	14	5	6	2	2.829021	0.004825	0.020626	up
ENSMUS(Acacb	165	155	97	96	88	71	1.522332	0.004938	0.021065	up
ENSMUS(Gapdhs	30	32	19	14	10	16	1.898329	0.004963	0.021155	up
ENSMUS(Zc3h12d	7	9	8	1	1	3	4.619074	0.005045	0.021467	up
ENSMUS(Tlr2	68	67	64	36	51	27	1.644081	0.00518	0.021984	up
ENSMUS(Ikbke	23	27	26	12	12	13	1.951006	0.005626	0.023693	up
ENSMUS(Il18rap	9	10	9	1	1	4	4.496517	0.005711	0.024008	up
ENSMUS(Spint1	25	37	35	16	13	21	1.855202	0.005851	0.024536	up
ENSMUS(Siglec1	18	19	17	1	9	5	3.422431	0.005933	0.024836	up
ENSMUS(Rab20	34	22	27	15	13	14	1.863473	0.005941	0.024865	up
ENSMUS(Ercc2	87	79	62	61	41	34	1.564034	0.006102	0.025453	up
ENSMUS(F10	6	10	0	1	0	0	14.14132	0.006107	0.025466	up
ENSMUS(Prrg4	11	14	13	5	1	1	5.068274	0.006117	0.025503	up

ENSMUS(Ube2ql1	2529	2299	2014	3252	3201	3436	0.651883	1.30E-34	1.35E-32	down
ENSMUS(Rps16	2840	2706	2272	3611	3621	4146	0.647909	3.49E-34	3.49E-32	down
ENSMUS(Uchl1	5926	5356	4737	7416	7594	8144	0.65219	3.70E-34	3.68E-32	down
ENSMUS(Tril	717	700	621	1021	1048	1044	0.617639	3.92E-34	3.89E-32	down
ENSMUS(R										

ENSMUS(Rps19bp1	243	236	219	382	337	335	0.62454	1.26E-12	2.39E-11	down
ENSMUS(2310036O	627	544	557	1154	817	701	0.607755	1.28E-12	2.43E-11	down
ENSMUS(Ypel3	1840	1619	1419	2552	2155	2280	0.656216	1.28E-12	2.43E-11	down
ENSMUS(Mospd3	215	197	175	318	280	293	0.620173	1.40E-12	2.65E-11	down
ENSMUS(Lims2</										

ENSMUS(4930407I1	5	1	0	9	19	14	0.128103	0.004476	0.019316	down
ENSMUS(Gm3512	15	9	18	42	32	20	0.423986	0.005218	0.022132	down
ENSMUS(Fat2	2	2	4	7	6	14	0.289484	0.005332	0.02258	down
ENSMUS(Plcz1	19	15	19	31	32	26	0.563796	0.00549	0.023177	down
ENSMUS(Nme9	8	7	7	20	16	12	0.430432	0.005545	0.023374	down
ENSMUS(Irx5	2	4	4	6	11	13	0.321884	0.005615	0.023656	down
ENSMUS(Tnnt3	5	2	3	11	8	11	0.312779	0.005617	0.023662	down
ENSMUS(Ror2	9	9	4	16	17	15	0.42502	0.005636	0.023727	down
ENSMUS(Dnd1	16	19	15	25	33	27	0.555299	0.005783	0.024287	down
ENSMUS(Tbx18	68	46	63	95	73	84	0.664926	0.005835	0.024477	down
ENSMUS(Malsu1	98	82	57	160	107	99	0.601935	0.005914	0.024774	down
ENSMUS(Unc5cl	4	5	3	10	10	13	0.342224	0.005974	0.02499	down
ENSMUS(Ripply2	56	36	43	69	60	64	0.6589	0.006036	0.025235	down
ENSMUS(Nxph4	17	12	11	23	24	25	0.521349	0.006045	0.025258	down
ENSMUS(Fxyd2	29	34	29	46	53	37	0.637913	0.006346	0.026355	down
ENSMUS(Irx1	4	3	2	10	10	8	0.298562	0.006375	0.02646	down
ENSMUS(Sapcd2	23	29	27	38	42	40	0.625162	0.006409	0.02659	down
ENSMUS(Rpl7a-ps5	1	2	0	5	6	6	0.161094	0.006862	0.028212	down
ENSMUS(Kif7	27	32	26	34	56	41	0.61334	0.006889	0.028309	down
ENSMUS(Nrtn	2	4	1	19	2	6	0.237509	0.006954	0.028548	down
ENSMUS(Atp23	73	105	73	123	131	101	0.66572	0.007319	0.029871	down
ENSMUS(Fam227b	41	43	27	55	43	59	0.662764	0.007323	0.029878	down
ENSMUS(Nhlh2	41	24	23	47	44	50	0.58391	0.007426	0.030258	down
ENSMUS(Cst6	56	41	67	78	73	94	0.640661	0.007589	0.030831	down
ENSMUS(Pf4	25	26	24	45	28	43	0.611541	0.008261	0.033257	down
ENSMUS(Sp7	25	18	24	27	34	43	0.614024	0.008404	0.033747	down
ENSMUS(Cartpt	26	24	19	53	31	29	0.569887	0.008409	0.03376	down
ENSMUS(Kcnk12	26	20	26	52	38	26	0.584726	0.008455	0.033913	down
ENSMUS(Car15	7	11	4	9	16	30	0.377397	0.008545	0.034229	down
ENSMUS(Smtnl2	8	13	12	13	27	23	0.501447	0.008575	0.034317	down
ENSMUS(Gm5415	31	32	25	54	38	39	0.630038	0.009385	0.037162	down
ENSMUS(Npw	1	2	2	12	4	5	0.226085	0.009409	0.037241	down
ENSMUS(Sox3	21	19	12	32	30	23	0.569024	0.009463	0.037414	down
ENSMUS(Cebpzos	28	40	39	50	57	52	0.641214	0.009485	0.037484	down
ENSMUS(Gpr139	19	21	6	30	30	32	0.461626	0.009671	0.038113	down
ENSMUS(CAAA011	2	8	3	20	10	13	0.283581	0.009991	0.039215	down
ENSMUS(Irx6	1	2	1	5	6	7	0.209842	0.010381	0.040591	down
ENSMUS(Teddm2	14	11	18	23	21	31	0.55051	0.011033	0.042797	down
ENSMUS(Ccl21a	1	5	3	6	14	8	0.306989	0.011117	0.043052	down
ENSMUS(Sntn	27	23	14	34	24	44	0.587056	0.011473	0.044294	down
ENSMUS(1700012B)	8	16	16	30	20	26	0.504003	0.011481	0.044313	down
ENSMUS(Xlr3b	37	37	28	44	35	74	0.631168	0.011566	0.044593	down
ENSMUS(Insc	63	32	49	75	68	71	0.63501	0.011627	0.044803	down
ENSMUS(3110009E)	31	21	25	32	46	36	0.637649	0.01163	0.044803	down
ENSMUS(Gm7347	0	0	1	5	2	5	0.085939	0.011895	0.045723	down
ENSMUS(Birc7	6	8	3	15	13	10	0.413994	0.012343	0.047233	down
ENSMUS(Npbwr1	27	21	15	38	28	31	0.605138	0.012352	0.047255	down
ENSMUS(Klrg1	27	24	25	48	28	40	0.618781	0.012421	0.047494	down
ENSMUS(Nr2c2ap	8	7	12	16	14	22	0.500719	0.012818	0.048797	down
ENSMUS(Cd79b	5	4	4	10	7	15	0.385297	0.01316	0.049906	down

ENSMUS(CApobec3	72	58	69	114	131	97	0.608925	2.76E-06	8.94E-05	down
ENSMUS(CCl12	12	11	13	41	27	45	0.330024	2.88E-06	9.3E-05	down
ENSMUS(CNppc	49	54	43	93	87	88	0.563834	3.11E-06	9.93E-05	down
ENSMUS(CSema3g	31	29	16	61	61	57	0.435493	3.16E-06	0.000101	down
ENSMUS(CPcdhga6	94	69	57	135	14					

ENSMUS(Dll4	12	17	10	32	27	20	0.513743	0.003962	0.039842	down
ENSMUS(Il1rn	0	0	1	11	4	2	0.068293	0.004119	0.041163	down
ENSMUS(Fzd10	10	14	11	23	28	22	0.498249	0.004131	0.041219	down
ENSMUS(Tead4	4	2	0	10	10	15	0.16915	0.004174	0.041574	down
ENSMUS(Madcam1	7	6	4	24	14	10	0.370875			

ENSMUS(Endog	34	32	68	23	29	16	2.112965	0.000852	0.011608 up
ENSMUS(Eme2	53	49	44	38	24	24	1.774074	0.000884	0.011999 up
ENSMUS(Stab2	90	58	66	49	23	31	2.170897	0.001085	0.014144 up
ENSMUS(Zfp428	167	293	299	156	165	179	1.582123	0.001172	0.015044 up
ENSMUS(Pycr1	50	36	22	19	19	17	2.015474	0.001235	0.01572 up
ENSMUS(Pspn	10	7	10	1	2	3	4.586985	0.001375	0.017101 up
ENSMUS(Depdc7	55	70	57	45	42	34	1.569544	0.001421	0.017561 up
ENSMUS(Gm5415	39	51	54	31	32	25	1.718399	0.001628	0.01956 up
ENSMUS(Prss41	49	61	51	26	21	38	1.937191	0.00184	0.021682 up
ENSMUS(Dmkn	38	30	37	24	19	10	2.105288	0.001988	0.023109 up
ENSMUS(Krt15	36	27	28	15	20	15	1.890414	0.002129	0.024394 up
ENSMUS(Tnfaip8l2	55	49	52	42	25	22	1.847181	0.002192	0.024962 up
ENSMUS(Kif22	57	64	75	48	38	45	1.563194	0.00243	0.027048 up
ENSMUS(Hspb3	13	8	15	5	3	4	3.157367	0.002507	0.027732 up
ENSMUS(Gm45844	65	53	39	31	40	30	1.603967	0.002533	0.027941 up
ENSMUS(DHR SX	46	64	54	26	38	37	1.675163	0.00268	0.029249 up
ENSMUS(Otos	7	14	6	1	3	3	3.885554	0.003115	0.032913 up
ENSMUS(Ckap2	31	26	28	13	19	7	2.302813	0.00342	0.035415 up
ENSMUS(Nr2c2ap	17	23	18	8	7	12	2.195072	0.003629	0.037193 up
ENSMUS(Adora2a	31	25	37	19	16	12	1.935966	0.004262	0.042263 up
ENSMUS(Rtl1	55	58	65	51	33	28	1.679462	0.004273	0.042302 up
ENSMUS(Avil	4	8	6	1	1	1	6.228978	0.00472	0.045738 up
ENSMUS(Colq	13	6	10	5	2	2	3.42155	0.005062	0.047984 up

Dataset S4. KEGG enrichment analysis for DE genes between RS and control (RS/C) female offspring

Term	Count	Fold Enric	PValue	FDR	Genes
ECM-recep	15	3.890107	2.40E-05	0.030992	COL4A4, COL4A3, COL6A5, LAMA5, GP1BB, COL27A1, ITGA8, COL6A3, ITGA1, COL1A1, COL11A2, COL11A1, COL5A2, THBS3, SPP1
Protein dig	15	3.890107	2.40E-05	0.030992	COL4A4, COL4A3, SLC8A1, SLC3A1, COL5A2, KCNJ13, COL9A2, COL9A3, COL14A1, COL6A5, COL27A1, COL6A3, COL1A1, COL11A2, COL11A1
Cell adhes	18	2.535773	6.80E-04	0.875469	H2-K1, H2-Q2, ITGAL, F11R, OCLN, CLDN9, CLDN3, CLDN5, H2-D1, CDH1, CDH3, H2-Q6, NCAM2, ITGA8, CLDN1, CLDN2, H2-AA, H2-DMA
Focal adhe	19	2.094769	0.004035	5.091959	COL4A4, COL4A3, MYLK3, ITGA1, COL5A2, FLNB, VCL, VEGFB, COL6A5, LAMA5, COL27A1, ITGA8, COL6A3, ZYX, COL1A1, COL11A2, COL11A1, THBS3, SPP1
Mineral ab	7	4.096249	0.0064	7.963043	TRPM7, MT1, SLC39A4, STEAP2, STEAP1, SLC31A1, FTH1
Neuroactiv	23	1.841772	0.006596	8.197113	C3AR1, GABRB2, LEPR, GABRA6, PTH1R, HTR4, SSTR4, CRHR2, CHRM5, PRLR, GIPR, ADRA2A, ADRA1B, CHRNB4, GPR50, CHRNA7, MC3R, GLP2R, GHSR, HTR2C, CHRNA3, OPRD1, HTR2A
HTLV-I in	22	1.819142	0.009212	11.27372	H2-Q2, H2-K1, ITGAL, WNT10A, EGR2, NRP1, WNT3A, H2-D1, CHEK1, ATR, H2-Q6, ATM, TGFB1, WNT1, FOS, MSX1, H2-AA, WNT6, H2-DMA, TERT, CHUK, WNT8B
Leukocyte	12	2.320877	0.013821	16.46268	ITGAL, ITK, F11R, CLDN9, OCLN, NCF2, CLDN3, NCF4, CLDN5, CLDN1, CLDN2, VCL
Tight junc	10	2.535773	0.016349	19.18836	F11R, CLDN9, OCLN, CLDN3, CGN, CLDN5, CLDN1, CLDN2, CRB3, TJP3
Viral myoc	9	2.59997	0.021443	24.43317	H2-K1, H2-Q2, ITGAL, CD55, H2-D1, H2-AA, MYH7, H2-DMA, H2-Q6
Basal cell	7	2.958402	0.029409	32.00908	WNT10A, WNT1, WNT3A, WNT6, TCF7L2, TCF7L1, WNT8B
Amoebiasi	11	2.145654	0.03156	33.93095	COL4A4, COL4A3, LAMA5, COL27A1, COL1A1, SERPINB1B, COL11A2, COL11A1, COL5A2, TGFB1, VCL
Salivary se	8	2.371113	0.050327	48.69553	KCNMA1, LYZ2, ATP2B3, SLC12A2, RYR3, ADRA1B, SLC4A2, PRKG1
Malaria	6	2.852745	0.057033	53.18522	HBA-A1, ITGAL, HBB-BS, HBB-BT, THBS3, TGFB1
Pathways i	25	1.444428	0.062306	56.45845	COL4A4, DCC, WNT10A, COL4A3, RET, FLT3, WNT3A, MITF, BIRC7, CDH1, ZBTB16, MECOM, TCF7L2, TCF7L1, TGFB1, VEGFB, JUP, GNG8, WNT1, FOS, LAMA5, WNT6, GM5741, CHUK, WNT8B
Staphylocc	6	2.738635	0.06584	58.53246	ITGAL, C3AR1, MASP2, H2-AA, H2-DMA, C1QC
Rheumatoi	8	2.226533	0.066373	58.83684	ITGAL, FOS, CXCL5, H2-AA, ATP6V1G2, CCL5, H2-DMA, TGFB1
Fanconi ar	6	2.684936	0.070513	61.13496	FAN1, FANCF, ATR, ATRIP, FANCB, FANCC
Graft-vers	6	2.633303	0.075365	63.67651	H2-K1, H2-Q2, H2-D1, H2-AA, H2-DMA, H2-Q6
PI3K-Akt	22	1.430436	0.087841	69.52577	COL4A4, COL4A3, ITGA1, COL5A2, IRS1, VEGFB, GNG8, PRLR, COL6A5, LAMA5, COL27A1, ITGA8, COL6A3, MTCP1, NGFR, COL1A1, COL11A2, GM5741, COL11A1, CHUK, THBS3, SPP1
Wnt signal	11	1.780436	0.088702	69.89546	SFRP5, WNT10A, WNT1, NKD1, SFRP1, WNT3A, WIF1, WNT6, TCF7L2, TCF7L1, WNT8B
Allograft r	6	2.44521	0.096515	73.0659	H2-K1, H2-Q2, H2-D1, H2-AA, H2-DMA, H2-Q6
Acute mye	6	2.44521	0.096515	73.0659	JUP, FLT3, ZBTB16, TCF7L2, TCF7L1, CHUK

Dataset S5. KEGG enrichment analysis for DE genes between SI and control (SI/C) female offspring.

Term	Count	Fold Enric	PValue	FDR	Genes
Ribosome	30	3.025174	1.09E-07	1.43E-04	MRPS15, RPL13, RPL35, RPLP2, RPL37, RPL38, RPS2, RPS28, RPS29, RPL31, RPLP1, RPS21, MRPL34, RPSA, RPL35A, RPL27, MRPS21, RPS5, RPS8, RPL28, MRPL23, RPS18, RPL41, RPL18A, RPS16, RPL13A, RPS15, RPS12, RPL37A, RPS10
Cell adhesi	29	2.61746	3.95E-06	0.005169	CLDN9, OCLN, CLDN3, H2-D1, CLDN10, CDH3, ITGAM, CD4, SELPLG, SPN, H2-K1, F11R, ICAM1, PTPRC, CD8B1, H2-M3, ITGA4, H2-Q7, H2-DMB2, NCAM2, SIGLEC1, ITGA8, CD274, H2-EB1, PECAM1, CLDN1, CLDN2, MADCAM1, H2-T24
Staphylocc	12	3.509202	4.38E-04	0.572408	C3AR1, ICAM1, C5AR1, C3, H2-EB1, FCGR4, CFH, FPR2, C1S1, SELPLG, ITGAM, H2-DMB2
Non-alcohol	23	2.142029	9.39E-04	1.223526	PPARA, NDUFB5, NDUFA3, SOCS3, LEPR, NDUFB9, NDUFA6, COX8A, COX7C, COX4I1, COX5A, UQCRRFS1, COX5B, UQCRQ, IRS1, NDUFA12, IL6RA, NDUFA11, NDUFS6, COX6A2, ERN1, COX6A1, FAS
Cytokine-c	30	1.812604	0.002031	2.629103	CXCL1, IL1R2, IL1R1, CXCL5, OSMR, CSF2RB2, LEPR, CCR1, IL4RA, CXCL9, CCL8, PF4, TNFSF12, CCL28, CSF2RB, FAS, IFNLR1, IL18RAP, GM20878, CCL21A, IL6RA, INHBA, ACVR2B, TNFSF10, CXCL14, PRLR, CXCL13, CXCL16, CCR2, NGFR
ECM-recep	15	2.492331	0.002363	3.052169	COL4A4, COL4A3, LAMA5, GP1BB, COL27A1, ITGA8, COL6A3, ITGA1, COL6A1, ITGA4, THBS1, COL11A1, COL5A2, THBS3, THBS4
Oxidative	20	2.103838	0.002733	3.521634	ATP5D, ATP5J2, NDUFB5, NDUFA3, NDUFA6, NDUFB9, COX8A, COX7C, COX4I1, COX5A, UQCRRFS1, COX5B, UQCRQ, NDUFA12, NDUFA11, NDUFS6, COX6A2, COX6A1, ATP5L, COX17
Alzheimer'	23	1.899991	0.004379	5.588012	ATP5D, NDUFB5, NDUFA3, NDUFA6, NDUFB9, COX8A, COX7C, COX4I1, ITPR3, COX5A, UQCRRFS1, COX5B, UQCRQ, NDUFA12, NDUFA11, NDUFS6, APOE, RYR3, COX6A2, ERN1, COX6A1, ADAM17, FAS
Parkinson's	20	1.962641	0.005931	7.497886	ATP5D, NDUFB5, NDUFA3, NDUFA6, NDUFB9, COX8A, UCHL1, COX7C, UBA7, COX4I1, COX5A, UQCRRFS1, COX5B, UQCRQ, NDUFA12, NDUFA11, NDUFS6, COX6A2, COX6A1, LRRK2
Chemokine	24	1.790409	0.007322	9.179673	CXCL1, ITK, CXCL5, CCR1, GM20878, ADCY6, GNG13, CCL21A, CXCL9, CCL8, RAF1, PF4, GNG11, CCL28, GNG8, CXCL14, ADCY9, CXCL13, CXCL16, CCR2, SHC3, GM5741, GNG5, CHUK
Herpes siri	25	1.757413	0.007659	9.58306	H2-K1, IFIH1, SP100, H2-M3, SOCS3, C3, TLR2, H2-D1, H2-Q7, CD74, H2-DMB2, CFP, DDX58, FOS, IKBKE, TAF10, IFIT1, IRF7, H2-EB1, H2-T24, FAS, OAS1A, EIF2AK2, OAS1G, CHUK
Hematopoie	13	2.236256	0.012235	14.89642	IL1R2, IL1R1, CD3G, CD8B1, GP1BB, H2-EB1, IL4RA, ITGA1, CD4, ITGA4, ITGAM, CD14, IL6RA
Focal adhe	24	1.695266	0.013727	16.56483	COL4A4, COL4A3, FLT1, MYLK4, ITGA1, MYLK2, RAF1, ITGA4, HGF, BIRC3, FLNB, COL5A2, VCL, VEGFB, LAMA5, COL27A1, ITGA8, COL6A3, COL6A1, THBS1, SHC3, COL11A1, THBS3, THBS4
Cardiac mu	12	2.278702	0.014803	17.74925	FXYD2, COX8A, COX6A2, COX7C, COX4I1, CACNG4, COX6A1, MYH7, COX5A, UQCRRFS1, COX5B, UQCRQ
Salivary se	12	2.278702	0.014803	17.74925	KCNMA1, FXYD2, ATP2B3, ADCY9, SLC12A2, RYR3, ADCY6, CST3, SLC4A2, ITPR3, PRKG1, DMBT1
Circadian c	14	2.08881	0.015358	18.35517	NOS1AP, ADCY6, GNG13, GNG11, ITPR3, PRKG1, GNG8, FOS, KCNJ6, ADCY9, RYR3, RYR1, GNG5, GM5741
Protein dig	13	2.16002	0.015879	18.91859	COL4A4, COL4A3, FXYD2, SLC8A1, COL9A3, COL14A1, COL27A1, COL6A3, COL12A1, COL6A1, COL11A1, COL5A2, KCNJ13
HTLV-I in	29	1.536335	0.022035	25.31846	IL1R2, IL1R1, NRP1, ADCY6, H2-D1, ANAPC11, WNT2, FOS, POLE4, MAP3K3, CHUK, TERT, FZD9, H2-K1, WNT10A, ICAM1, CD3G, EGR2, H2-M3, FZD3, ATR, H2-Q7, FZD4, H2-DMB2, ATM, ADCY9, H2-EB1, H2-T24, MAP3K14
Hepatitis C	17	1.827709	0.022502	25.78455	PPARA, OCLN, CLDN9, CLDN3, SOCS3, RAF1, CLDN10, DDX58, IKBKE, IFIT1, IRF7, CLDN1, CLDN2, OAS1A, EIF2AK2, OAS1G, CHUK
Graft-versu	9	2.530674	0.023489	26.7602	H2-K1, H2-M3, H2-EB1, H2-D1, GZMB, FAS, H2-T24, H2-Q7, H2-DMB2
Huntingtor	22	1.62463	0.028609	31.63508	ATP5D, DNAH11, DNAH9, NDUFB5, POLR2F, NDUFA3, NDUFA6, NDUFB9, POLR2I, COX8A, COX7C, COX4I1, COX5A, UQCRRFS1, COX5B, UQCRQ, NDUFA12, NDUFA11, DNAH6, NDUFS6, COX6A2, COX6A1
Allograft r	9	2.349912	0.035007	37.30545	H2-K1, H2-M3, H2-EB1, H2-D1, GZMB, FAS, H2-T24, H2-Q7, H2-DMB2
PI3K-Akt s	34	1.416344	0.037033	39.00846	OSMR, IL4RA, TLR2, GNG13, GNG11, GNG8, COL27A1, COL6A3, COL6A1, MTCP1, THBS1, GM5741, GNG5, COL11A1, CHUK, THBS3, THBS4, COL4A4, COL4A3, FLT1, SGK3, ITGA1, RAF1, ITGA4, HGF, COL5A2, IRS1, IL6RA, VEGFB, PRLR, LAMA5, ITGA8, NGFR, PPP2R3D
Cholinergi	14	1.811535	0.043596	44.23551	GNG8, FOS, CHRM5, KCNJ6, ADCY9, ADCY6, GNG13, GNG11, CHRNA7, SLC5A7, ITPR3, GM5741, GNG5, CHRNA3
Mineral ab	7	2.624403	0.046908	46.71339	FXYD2, TRPM7, SLC39A4, STEAP2, STEAP1, SLC31A1, FTH1
Apoptosis	9	2.193251	0.049846	48.82613	TNFSF10, CSF2RB2, ENDOG, CSF2RB, FAS, MAP3K14, BIRC3, CHUK, ATM
Morphine s	12	1.886667	0.051101	49.70409	GNG8, KCNJ6, ADCY9, GABRB2, GABRA6, ADCY6, GNG13, PDE11A, GNG11, PDE4D, GM5741, GNG5
Bile secret	10	2.059391	0.051162	49.74662	FXYD2, SLC01A4, ADCY9, ABCB1A, AQP9, ADCY6, SLC4A2, AQP1, SLC01A5, SLC4A5
Antigen pr	11	1.961444	0.051474	49.96276	H2-K1, CIITA, CD8B1, H2-M3, H2-EB1, H2-D1, CD4, H2-T24, H2-Q7, CD74, H2-DMB2
Type I dial	9	2.122501	0.058593	54.66594	H2-K1, H2-M3, H2-EB1, H2-D1, GZMB, FAS, H2-T24, H2-Q7, H2-DMB2
GABAergi	11	1.848717	0.07143	62.12977	GNG8, KCNJ6, ADCY9, GABRB2, GABRA6, ADCY6, GNG13, GNG11, GM5741, GNG5, GABARAP
Compleme	10	1.923904	0.072835	62.87359	C3AR1, A2M, F10, C5AR1, SERPINA1B, F5, C3, CD46, CFH, C1S1
Pyrimidine	12	1.754601	0.077938	65.4636	TYMS, POLR2F, POLE4, UPRT, PNP2, UPB1, NT5C1A, POLR2I, POLR1A, CTPS2, DCTPP1, AK9
Primary in	6	2.580295	0.07864	65.80633	DCLRE1C, CIITA, PTPRC, CD8B1, AIRE, CD4
Measles	15	1.612685	0.079753	66.34364	IFIH1, CD3G, TLR2, CD209B, TLR7, DDX58, IKBKE, TNFSF10, CD46, IRF7, FAS, OAS1A, EIF2AK2, OAS1G, CHUK
p53 signali	9	1.964105	0.084472	68.53638	DDB2, PMAIP1, SFN, FAS, ATR, MDM4, THBS1, PERP, ATM
Tight junct	11	1.787093	0.085463	68.97952	F11R, CLDN9, OCLN, MYH15, CLDN3, CGN, CLDN1, CLDN2, CRB3, CLDN10, TJP3
Vascular si	14	1.611838	0.092096	71.80127	KCNMA1, ADCY9, ADCY6, MYLK4, RAF1, MYLK2, ITPR3, PRKG1, PLA2G3, PPP1R14A, KCNMB1, PLA2G5, PLA2G2F, ARHGEF11

Dataset S6. KEGG enrichment analysis for DE genes between RS and SI (RS/SI) female offspring.

Term	Count	Fold Enrich	PValue	FDR	Genes
Staphylococ	16	15.098896	4.42E-14	5.56E-11	ITGAL, ICAM1, C3AR1, C5AR1, C3, C4B, FCGR4, ITGB2, H2-AB1, C1QC, FCGR3, FCGR2B, H2-OB, H2-EB1, H2-AA, CFI
Cell adhesio	19	5.5339317	6.58E-09	8.28E-06	ITGAL, PTPRC, ICAM1, CD8B1, H2-D1, ITGB2, CDH1, H2-AB1, H2-Q6, H2-Q7, CDH5, H2-OB, H2-EB1, H2-AA, H2-T23, CD4, MADCAM1, H2-T24, SPN
Type I diab	12	9.1323966	5.18E-08	6.52E-05	PTPRN2, H2-EB1, H2-OB, H2-D1, H2-AA, H2-T23, GZMB, H2-AB1, FAS, H2-T24, H2-Q6, H2-Q7
Graft-versu	11	9.9812412	9.62E-08	1.21E-04	H2-EB1, H2-OB, H2-D1, H2-AA, H2-T23, GZMB, H2-AB1, FAS, H2-T24, H2-Q6, H2-Q7
Antigen pre	13	7.480398	1.17E-07	1.48E-04	CD8B1, H2-D1, H2-AB1, H2-Q6, H2-Q7, CD74, TAP1, H2-OB, H2-EB1, H2-AA, CD4, H2-T23, H2-T24
Allograft re	11	9.2682954	2.01E-07	2.53E-04	H2-EB1, H2-OB, H2-D1, H2-AA, H2-T23, GZMB, H2-AB1, FAS, H2-T24, H2-Q6, H2-Q7
Complemer	12	7.450113	4.53E-07	5.70E-04	VWF, C3AR1, A2M, THBD, F10, C5AR1, F5, C4B, C3, CFI, C1QC, PLAUR
Phagosome	17	4.6908119	5.28E-07	6.64E-04	MSR1, C3, H2-D1, FCGR4, ITGB2, H2-AB1, H2-Q6, H2-Q7, FCGR3, FCGR2B, TAP1, H2-OB, H2-EB1, H2-AA, H2-T23, H2-T24, CD14
Viral myoca	12	7.1671973	6.77E-07	8.52E-04	ITGAL, ICAM1, H2-EB1, H2-OB, H2-D1, H2-AA, ITGB2, H2-T23, H2-AB1, H2-T24, H2-Q6, H2-Q7
Autoimmun	11	7.3102048	1.99E-06	0.0025045	H2-EB1, H2-OB, H2-D1, H2-AA, H2-T23, GZMB, H2-AB1, FAS, H2-T24, H2-Q6, H2-Q7
HTLV-I inf	20	3.419134	4.83E-06	0.0060834	ZFP36, ITGAL, IL1R2, ICAM1, WNT5B, EGR2, H2-D1, ITGB2, H2-AB1, H2-Q6, H2-Q7, CDKN1A, FZD10, ADCY9, H2-OB, H2-EB1, SLC2A1, H2-AA, H2-T23, H2-T24
Herpes sim	16	3.6295422	2.98E-05	0.0375034	SOCS3, C3, H2-D1, H2-AB1, CCL5, H2-Q6, H2-Q7, CD74, CCL12, TAP1, H2-OB, H2-EB1, H2-AA, H2-T23, FAS, H2-T24
Rheumatoid	10	5.7541523	5.14E-05	0.0646378	ITGAL, CCL12, ICAM1, FLT1, H2-EB1, H2-OB, H2-AA, ITGB2, H2-AB1, CCL5
Cytokine-cy	16	3.1196066	1.67E-04	0.2103823	CXCL1, IL1R2, OSMR, CCR1, IL4RA, CXCL9, CCL5, INHBA, CCL12, TNFRSF11B, CXCL13, CXCL16, CXCR6, CCR2, CSF2RB, FAS
Tuberculosi	13	3.4851854	3.23E-04	0.4054144	C3, SPHK1, FCGR4, ITGB2, H2-AB1, CD74, FCGR3, FCGR2B, CLEC4E, H2-OB, H2-EB1, H2-AA, CD14
Leishmania	8	5.8980061	3.66E-04	0.4597678	C3, H2-EB1, H2-OB, FCGR4, H2-AA, ITGB2, H2-AB1, FCGR3
Hematopoie	8	4.4408517	0.0020119	2.5025623	IL1R2, CD8B1, H2-EB1, IL4RA, MS4A1, ANPEP, CD4, CD14
Influenza A	11	3.0352312	0.0032027	3.9565247	CCL12, ICAM1, SOCS3, H2-EB1, H2-OB, H2-AA, H2-AB1, FAS, CCL5, CASP1, TLR7
Malaria	6	5.8980061	0.0032131	3.9691102	ITGAL, CCL12, ICAM1, ITGB2, HBB-BS, HBB-BT
Osteoclast c	9	3.3702892	0.0050008	6.1141709	PIRB, TNFRSF11B, CYBB, FCGR2B, SOCS3, GM9733, FCGR4, FOSB, FCGR3
Natural kill	8	3.5949752	0.0065425	7.9285865	ITGAL, ICAM1, CD244, KLRK1, FCGR4, ITGB2, GZMB, FAS
Epstein-Bar	9	3.1224738	0.0078573	9.4503917	ITGAL, ICAM1, CDKN1A, H2-D1, H2-T23, H2-T24, H2-Q6, H2-Q7, SPN
Intestinal in	5	5.6171487	0.0113965	13.432361	H2-EB1, H2-OB, H2-AA, MADCAM1, H2-AB1
Systemic lu	9	2.8888193	0.0122608	14.379982	HIST1H2BE, C4B, C3, H2-EB1, H2-OB, FCGR4, H2-AA, H2-AB1, C1QC
Asthma	4	7.8640082	0.0134189	15.634816	H2-EB1, H2-OB, H2-AA, H2-AB1
Pertussis	6	3.8257337	0.0195582	22.008629	C4B, C3, ITGB2, CASP1, C1QC, CD14
Chemokine	10	2.4073494	0.0224575	24.861781	CXCL1, CCL12, ADCY9, CXCL13, CCR1, CXCL16, CXCR6, CCR2, CXCL9, CCL5
Viral carcin	11	2.2468595	0.0238497	26.19746	CDKN1A, EGR3, EGR2, HIST1H2BE, C3, H2-D1, H2-T23, PMAIP1, H2-T24, H2-Q6, H2-Q7
Legionellos	5	4.1389517	0.0315958	33.23814	CXCL1, C3, ITGB2, CASP1, CD14
Primary im	4	5.5510646	0.0340682	35.351732	PTPRC, CD8B1, TAP1, CD4
Inflammato	5	3.9986482	0.0352589	36.347523	H2-EB1, H2-OB, IL4RA, H2-AA, H2-AB1
African try	4	5.3924628	0.0367022	37.535568	ICAM1, HBB-BS, FAS, HBB-BT
Vascular sn	7	2.6006956	0.051303	48.458348	ADCY9, ADORA2A, MYLK2, ITPR3, PLA2G3, PPP1R14A, PLA2G2F
Bile secreti	5	3.3228204	0.062202	55.433787	ADCY9, ABCB1A, SLC2A1, SLC22A8, ABCC3
Toxoplasmo	6	2.6962314	0.0703405	60.063682	LAMA1, IGTP, H2-EB1, H2-OB, H2-AA, H2-AB1
TNF signali	6	2.5972871	0.0797324	64.85427	CXCL1, CCL12, ICAM1, SOCS3, FAS, CCL5

Dataset S7. GO (biological process) enrichment analysis for DE genes between RS and SI (RS/SI) female offspring.

Term	Count	Fold	Enrich	PValue	FDR	Genes
immune sys:	41	5.4834873	2.92E-18	5.00E-15	TNFAIP8L2, APOBEC3, CD244, IFITM1, S100A8, C3, IL4RA, S100A9, KLRK1, PGLYRP1, H2-D1, HP, LY9, GBP2B, TLR7, C1QC, CD74, RNF125, NLRCS, CASP4, CLEC4E, OASL2, TAP1, CD4, CFI, ZBP1, CD8B1, TLR13, LILRB4A, EOMES, ANXA1, H2-AB1, H2-Q7, PSMB9, LCN2, PIRB, H2-EB1, CD300LF, H2-AA, H2-T23, CD14	
inflammato</						

microglial c	3	8.5372993	0.0470881	56.135017	AIF1, CASP1, TLR7
negative rej	4	4.8784568	0.0480613	56.89421	FBLN1, ACVRL1, MYO1F, SPN
positive reg	14	1.7973262	0.0494929	57.988433	MYLK2, RNF207, CCL5, PTGFR, ZFP580, VASH1, PLAUR, LCN2, INHBA, AGT, DLL4, CTSH, KLF4, FN1
cell-cell sig	6	2.9839104	0.0508238	58.982195	LNPEP, WNT5B, CXCL13, CCR1, CCL5, GJC2
blood vesse	4	4.7650043	0.0509471	59.073132	ACVRL1, DLL4, CCR2, FOXC2
negative rej	5	3.5572081	0.0517711	59.675993	NGP, AGT, CCR2, ADAMTS1, VASH1
positive reg	3	8.0879678	0.0519663	59.817618	IL4RA, CXCL9, SCGB3A1
positive reg	3	8.0879678	0.0519663	59.817618	PTPRC, H2-D1, H2-T23
positive reg	6	2.955219	0.0525786	60.258743	SSTR4, PTPRC, TNFRSF11B, FLT1, AGT, FAS
aging	8	2.3687305	0.0528971	60.486316	CDKN1C, APOD, ADM, AGT, ENDOG, MADCAM1, ITGB2, HTR2A
transmembi	13	1.8294213	0.0548414	61.849568	SLC22A8, KCNA1, CLCNKA, KCNA3, KCNA5, SLC47A1, ITPR3, ABCB1A, TAP1, SLC37A2, SLC2A1, ABCC3, SLC22A6
negative rej	6	2.8994602	0.0561933	62.771219	ACVRL1, CYP1B1, IFITM1, IL1RN, ERDR1, KLF4
adenylate c	4	4.5532263	0.0569642	63.287333	P2RY12, HTR1B, ADCY9, HTR2A
negative rej	3	7.6835694	0.0570158	63.321661	ACVRL1, DLL4, VASH1
positive reg	2	34.149197	0.0572742	63.493015	ANXA1, HCAR2
negative rej	2	34.149197	0.0572742	63.493015	IL1R2, IL1RN
B cell medi	2	34.149197	0.0572742	63.493015	PIRB, FAS
T cell activ	2	34.149197	0.0572742	63.493015	ITGAL, ICAM1
negative rej	2	34.149197	0.0572742	63.493015	CCL12, KLRK1
cellular resj	2	34.149197	0.0572742	63.493015	KLF2, KLF4
cellular resj	5	3.4149197	0.0585119	64.303301	P2RY12, CCL12, MSR1, CYP1B1, CCL5
cellular resj	6	2.7940252	0.0638417	67.603019	LCN2, ZFP36, CCL12, ICAM1, CCL5, KLF2
cell chemot	5	3.2835767	0.0656978	68.683092	CXCL1, CCL12, CXCL13, CXCL9, SAA3
cellular resj	5	3.2835767	0.0656978	68.683092	CASP4, AGT, FAS, CASP1, TLR7
positive reg	4	4.2686497	0.0665874	69.188666	GATA2, FCGR2B, C3, FCGR3
positive reg	4	4.2686497	0.0665874	69.188666	CDKN1A, ACER2, HP, FAS
vasodilation	3	6.9850631	0.0675949	69.751934	ADORA2A, AGT, GCH1
cellular resj	3	6.9850631	0.0675949	69.751934	EGR3, FLT1, DLL4
cellular resj	3	6.9850631	0.0675949	69.751934	SSTR4, ZFP36, ANXA1
leukocyte c	3	6.9850631	0.0675949	69.751934	CCR1, S100A9, CKLF
positive reg	3	6.9850631	0.0675949	69.751934	PTPRC, H2-AA, CD74
positive reg	4	4.1815344	0.0699498	71.030975	ZFP36, WNT5B, ZBTB16, HTR2A
signal trans	33	1.3469205	0.071753	71.975767	GPR182, C3AR1, GPR84, ACVRL1, WNT5B, ADORA2A, GPR63, CCR1, GPR65, GPR88, TLR7, CD74, TNFRSF11B, HTR1B, CXCR6, FAS, HCAR2, FYB, DEPDCC7, C5AR1, SOCS3, TLR13, ANXA1, PTGFR, P2RY12, SSTR4, GPR35, FZD10, GPR34, TENM3, CCR2, HTR2A, RIN3
cell cycle a	5	3.1619627	0.0733212	72.77375	CDKN1C, INHBA, CDKN1A, VASH1, SLFN1
female preg	5	3.1619627	0.0733212	72.77375	A2M, THBD, ADM, AGT, FOSB
gamma-am	2	25.611898	0.0756292	73.909344	SLC6A12, SLC6A13
positive reg	2	25.611898	0.0756292	73.909344	CD244, H2-T23
endocardial	2	25.611898	0.0756292	73.909344	ERG, EFNA1
antigen pro	2	25.611898	0.0756292	73.909344	H2-AA, H2-AB1
positive reg	2	25.611898	0.0756292	73.909344	S100A8, S100A9
response to	2	25.611898	0.0756292	73.909344	IER3, SPN
negative rej	2	25.611898	0.0756292	73.909344	GZMA, HP
negative rej	2	25.611898	0.0756292	73.909344	NGP, VASH1
positive reg	8	2.179736	0.0763494	74.254495	CCL12, ICAM1, C5AR1, C3, CCR1, CCL5, CD74, HTR2A
insulin rece	4	4.0175526	0.076899	74.514953	SOGA1, BAIAP2L1, PDK4, FOXC2
xenobiotic i	3	6.4029745	0.0787606	75.378939	CYP1B1, SULT1A1, FMO2
positive reg	3	6.4029745	0.0787606	75.378939	AIF1, ANXA1, KCNA5
phagocytos	4	3.940292	0.0804831	76.153757	ITGAL, GATA2, ANXA1, ITGB2
hemopoiesi	5	2.9781277	0.0869735	78.871841	GATA2, CCR2, HBB-BS, ZBTB16, HBB-BT
negative rej	17	1.5385239	0.0880522	79.294324	IER3, EGR3, AIF1, SOCS3, IL1RN, SPHK1, PTGFR, MIEN1, CD74, PLAC8, PLAUR, CDKN1A, THOC6, FAS, CTSH, FN1, SPP1
arachidonic	3	5.910438	0.0904523	80.205879	ANXA1, PLA2G3, PLA2G2F
complemen	4	3.725367	0.0916572	80.649149	C4B, C3, CFI, C1QC
regulation c	2	20.489518	0.0936278	81.353992	HBB-BS, HBB-BT
B cell chem	2	20.489518	0.0936278	81.353992	CXCL13, CH25H
cellular oxi	2	20.489518	0.0936278	81.353992	HBB-BS, HBB-BT
non-canoni	2	20.489518	0.0936278	81.353992	FZD10, MYOC
granzyme-r	2	20.489518	0.0936278	81.353992	GZMB, SRGN
negative rej	2	20.489518	0.0936278	81.353992	CYP1B1, ACER2
peptidyl-cy	2	20.489518	0.0936278	81.353992	S100A8, S100A9
defense resj	4	3.6588426	0.0955177	82.007232	REG3B, LY22, ADM, CD4
anion transj	3	5.6915329	0.0964775	82.330647	SLC37A2, SLC22A6, SLC4A1
Notch signi	6	2.4587422	0.0974144	82.641099	DLL4, FOXC2, GZMB, HP, KCNA5, DLK1

Dataset S8. Differentially methylated genes distributed in different elements.

Chr	Start	End	Methyl_R	Methyl_S	Diff_methyl	Direction	Gene ID	Element
chr10	122802290	122802677	0.6404	0.1845	0.4559	Hyper	chr10:122802275:122802612 CGI	CGI
chr10	13090410	13091128	0.2253	0.7861	-0.5608	Hypo	chr10:13090532:13091299 CGI	CGI
chr10	75062003	75062133	0.4914	0.1346	0.3567	Hyper	chr10:75060384:75062209 CGI	

chrX	162760193	162761268	0.6817	0.1099	0.5718	Hyper	chrX:162760037:162761400 CGI	CGI
chrX	164076223	164076512	0.6036	0.1304	0.4732	Hyper	chrX:164075915:164076602 CGI	CGI
chrX	166170231	166170358	0.5346	0.0576	0.4771	Hyper	chrX:166170285:166170559 CGI	CGI
chrX	16618945	16619125	0.5954	0.0813	0.5142	Hyper	chrX:16618454:16618959 CGI	CGI
chrX	166510715	166510905	0.6073	0.1764	0.4309	Hyper	chrX:166510067:166510729 CGI	CGI
chrX	168674198	168674553	0.6583	0.087	0.5713	Hyper	chrX:168673364:168674394 CGI	CGI
chrX	169994005	169994276	0.9071	0.2923	0.6148	Hyper	chrX:169994005:169994235 CGI	CGI
chrX	20060707	20060958	0.6823	0.1731	0.5093	Hyper	chrX:20059724:20061120 CGI	CGI
chrX	20618077	20618164	0.5078	0.116	0.3918	Hyper	chrX:20617032:20618390 CGI	CGI
chrX	20618257	20618508	0.469	0.1086	0.3605	Hyper	chrX:20617032:20618390 CGI	CGI
chrX	36328418	36328678	0.3943	0.0756	0.3188	Hyper	chrX:36328331:36330273 CGI	CGI
chrX	36644743	36645387	0.7865	0.2048	0.5817	Hyper	chrX:36644909:36645291 CGI	CGI
chrX	36807807	36808398	0.5539	0.1208	0.4332	Hyper	chrX:36807777:36808136 CGI	CGI
chrX	37127292	37127506	0.6967	0.1762	0.5205	Hyper	chrX:37126928:37127320 CGI	CGI
chrX	38180982	38181355	0.6343	0.1179	0.5164	Hyper	chrX:38180828:38181252 CGI	CGI
chrX	41401497	41401628	0.5409	0.0929	0.448	Hyper	chrX:41401379:41401588 CGI	CGI
chrX	41911146	41911217	0.5981	0.0952	0.5029	Hyper	chrX:41911041:41911984 CGI	CGI
chrX	48454161	48454570	0.5227	0.1091	0.4136	Hyper	chrX:48452905:48454662 CGI	CGI
chrX	49950292	49950477	0.4218	0.9589	-0.5371	Hypo	chrX:49950392:49950833 CGI	CGI
chrX	51681002	51681367	0.5111	0.1108	0.4003	Hyper	chrX:51679908:51681589 CGI	CGI
chrX	52988018	52988389	0.4667	0.0874	0.3793	Hyper	chrX:52988002:52988623 CGI	CGI
chrX	56374582	56374677	0.6304	0.1981	0.4322	Hyper	chrX:56374455:56375000 CGI	CGI
chrX	57503417	57503590	0.8293	0.2155	0.6138	Hyper	chrX:57503513:57503908 CGI	CGI
chrX	59567526	59567591	0.4412	0.0747	0.3664	Hyper	chrX:59567234:59568293 CGI	CGI
chrX	71051016	71051100	0.4705	0.1279	0.3426	Hyper	chrX:71050987:71051289 CGI	CGI
chrX	71664516	71664717	0.1304	0.6896	-0.5592	Hypo	chrX:71664218:71664718 CGI	CGI
chrX	7319286	7319620	0.4868	0.1467	0.3402	Hyper	chrX:7318572:7319439 CGI	CGI
chrX	73422218	73422546	0.9296	0.3302	0.5994	Hyper	chrX:73421939:73422448 CGI	CGI
chrX	73503594	73503774	0.5267	0.0874	0.4393	Hyper	chrX:73503078:73503605 CGI	CGI
chrX	73659195	73659771	0.821	0.165	0.656	Hyper	chrX:73659698:73660177 CGI	CGI
chrX	73967297	73967406	0.4348	0.1017	0.3331	Hyper	chrX:73965822:73967884 CGI	CGI
chrX	74245734	74246231	0.6186	0.0898	0.5288	Hyper	chrX:74245775:74246710 CGI	CGI
chrX	75142997	75143479	0.6575	0.1571	0.5004	Hyper	chrX:75143197:75143602 CGI	CGI
chrX	7841838	7842043	0.781	0.1981	0.5828	Hyper	chrX:7841567:7842696 CGI	CGI
chrX	7883813	7884141	0.617	0.1688	0.4482	Hyper	chrX:7884049:7884621 CGI	CGI
chrX	7947584	7948092	0.6357	0.1253	0.5105	Hyper	chrX:7947659:7948269 CGI	CGI
chrX	8096615	8096735	0.4108	0.0782	0.3326	Hyper	chrX:8096486:8096908 CGI	CGI
chrX	8145133	8146008	0.7276	0.1056	0.622	Hyper	chrX:8145265:8145872 CGI	CGI
chrX	94541838	94542044	0.4827	0.1134	0.3693	Hyper	chrX:94541067:94542086 CGI	CGI
chrX	98890405	98890487	0.7174	0.2095	0.5079	Hyper	chrX:98890404:98891060 CGI	CGI
chrX	98936883	98937547	0.6946	0.084	0.6106	Hyper	chrX:98936881:98938199 CGI	CGI